

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062118\  
 Data File : VX002788.D  
 Acq On : 21 Jun 2018 15:10  
 Operator : JC/MD  
 Sample : J3575-21  
 Misc : 11.89g/5.0mL/100uL/5.0mL/MSVOA\_X/MEOH  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jun 22 01:09:57 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061518W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 16 01:37:33 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 208626   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 291104   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 278608   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 170702   | 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   | 139801   | 44.10 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 88.20% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 109530   | 47.14 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.28% |          |
| 50) Toluene-d8              | 8.72  | 98   | 414125   | 46.95 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.90% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 155894   | 46.64 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.28% |          |

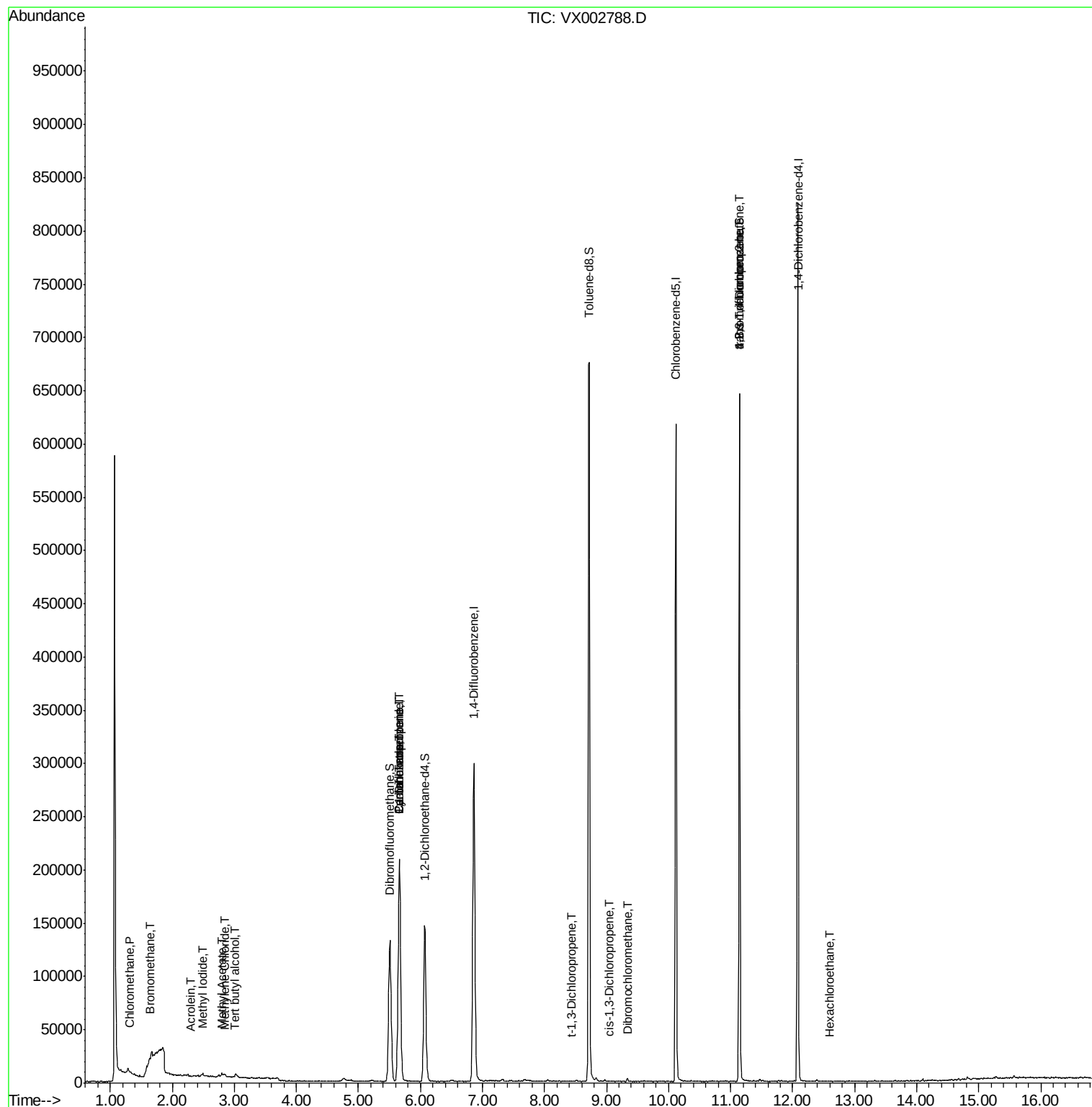
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 545      | 0.21  | ug/l # | 54     |
| 5) Bromomethane                | 1.64  | 94   | 1348     | 0.82  | ug/l # | 79     |
| 10) Methyl Iodide              | 2.49  | 142  | 1960     | 5.71  | ug/l # | 86     |
| 11) Tert butyl alcohol         | 3.02  | 59   | 2186     | 3.34  | ug/l # | 89     |
| 13) Acrolein                   | 2.30  | 56   | 196      | 7.48  | ug/l # | 42     |
| 18) Methyl Acetate             | 2.80  | 43   | 4585     | 1.23  | ug/l # | 86     |
| 20) Methylene Chloride         | 2.85  | 84   | 1092     | 0.38  | ug/l # | 67     |
| 31) Cyclohexane                | 5.66  | 56   | 4399     | 1.18  | ug/l # | 2      |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 14600    | 4.72  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 19231    | 6.25  | ug/l # | 18     |
| 53) t-1,3-Dichloropropene      | 8.44  | 75   | 67       | 2.41  | ug/l # | 43     |
| 54) cis-1,3-Dichloropropene    | 9.04  | 75   | 127      | 3.25  | ug/l # | 42     |
| 60) Dibromochloromethane       | 9.34  | 129  | 478      | 3.92  | ug/l # | 11     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 82162    | 25.51 | ug/l # | 33     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 82162    | 78.97 | ug/l # | 7      |
| 90) Hexachloroethane           | 12.61 | 117  | 48       | 2.65  | ug/l # | 1      |

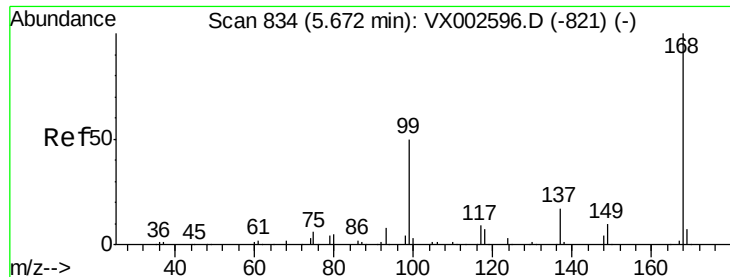
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX062118\  
Data File : VX002788.D  
Acq On : 21 Jun 2018 15:10  
Operator : JC/MD  
Sample : J3575-21  
Misc : 11.89µ/5.0mL/100µL/5.0mL/MSVOA\_X/MEOH  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Jun 22 01:09:57 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X061518W.M  
Quant Title : SW846 8260  
QLast Update : Sat Jun 16 01:37:33 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.01 min

Lab File: VX002788.D

Acq: 21 Jun 2018 15:10

Instrument :

MSVOA\_X

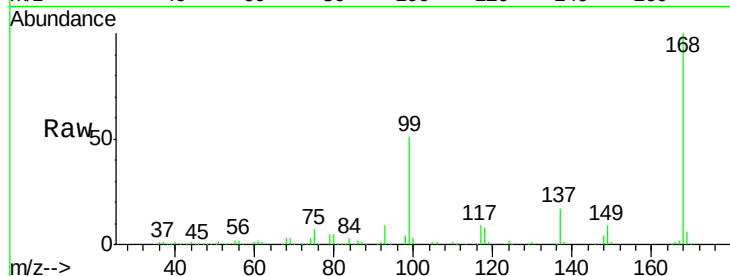
ClientSampleId :

Tot Ion:168 Resp: 208626

Ion Ratio Lower Upper

168 100

99 50.9 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

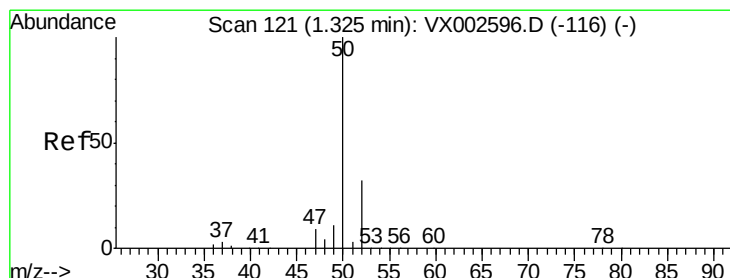
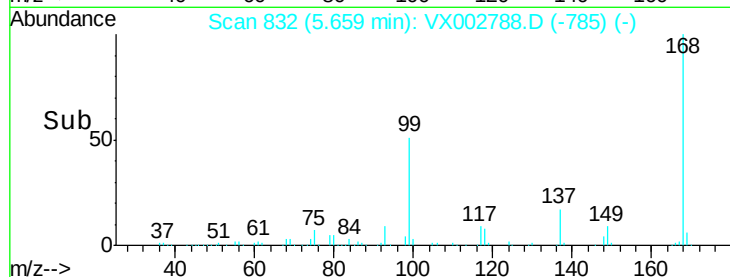
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.21 ug/l

RT: 1.32 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX002788.D

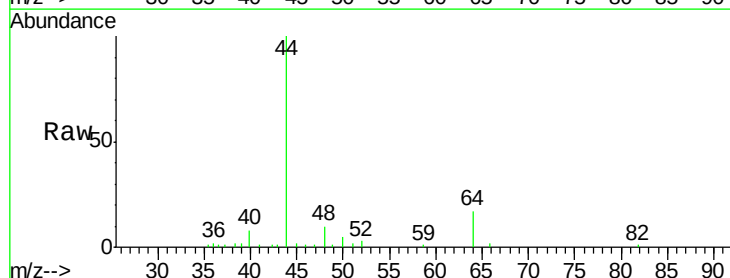
Acq: 21 Jun 2018 15:10

Tgt Ion: 50 Resp: 545

Ion Ratio Lower Upper

50 100

52 57.7 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

300

250

200

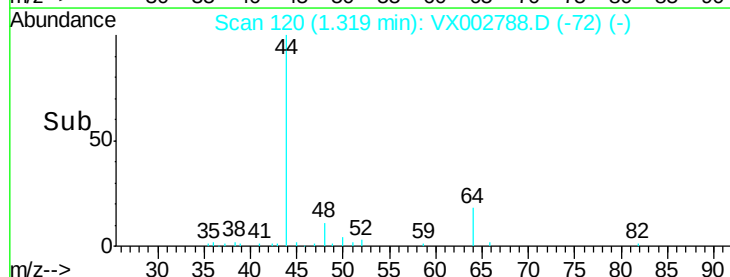
150

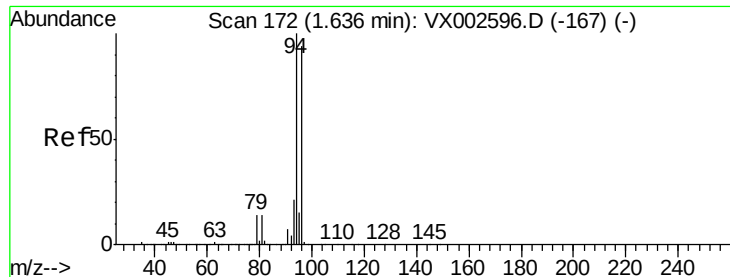
100

50

0

Time--> 1.28 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 0.82 ug/l

RT: 1.64 min Scan# 172

Delta R.T. 0.00 min

Lab File: VX002788.D

Acq: 21 Jun 2018 15:10

Instrument :

MSVOA\_X

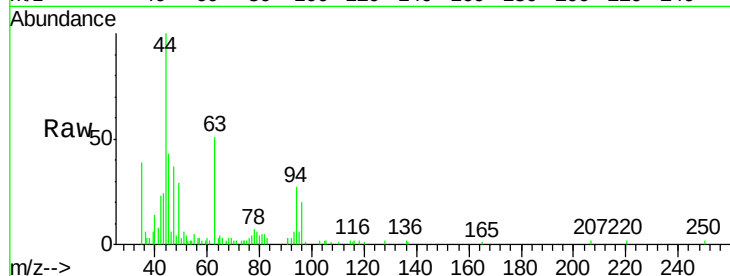
ClientSampled :

Tot Ion: 94 Resp: 1348

Ion Ratio Lower Upper

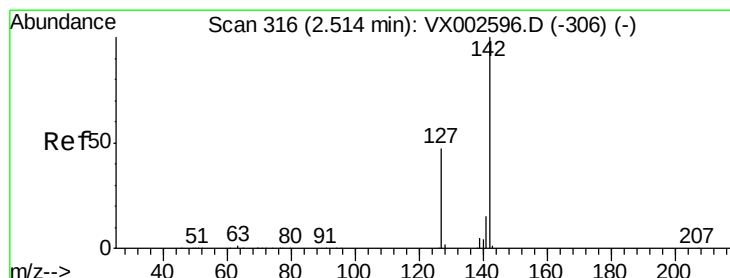
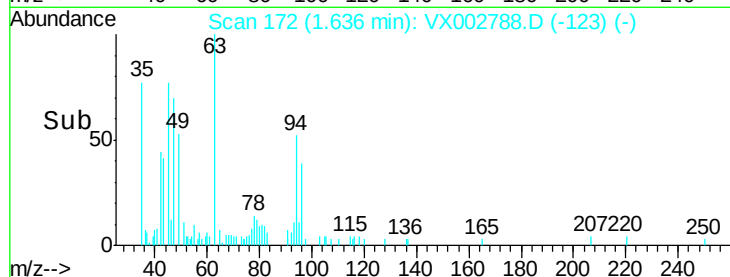
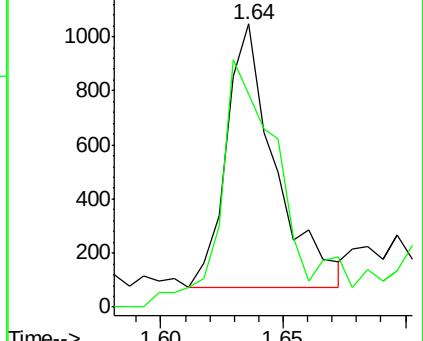
94 100

96 73.2 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 5.71 ug/l

RT: 2.49 min Scan# 312

Delta R.T. -0.02 min

Lab File: VX002788.D

Acq: 21 Jun 2018 15:10

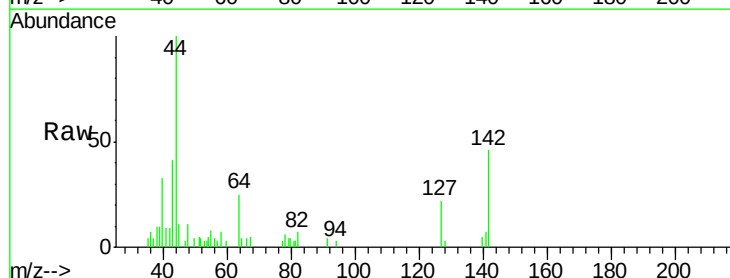
Tgt Ion: 142 Resp: 1960

Ion Ratio Lower Upper

142 100

127 56.6 36.6 55.0#

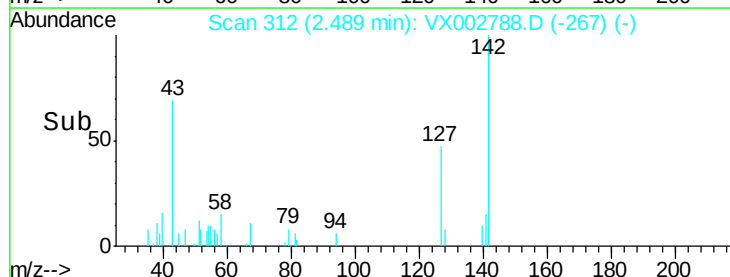
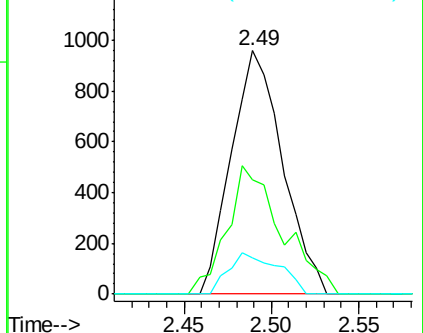
141 16.4 11.3 16.9

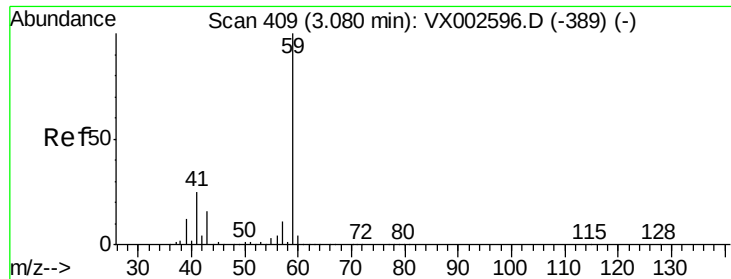


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

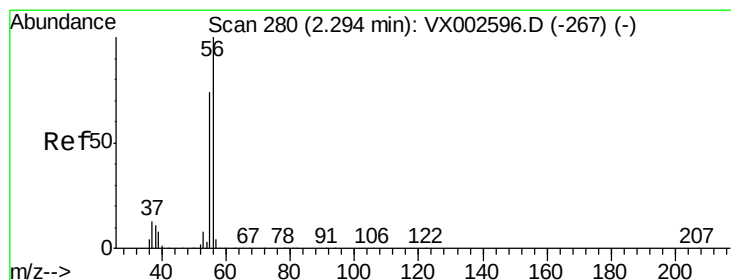
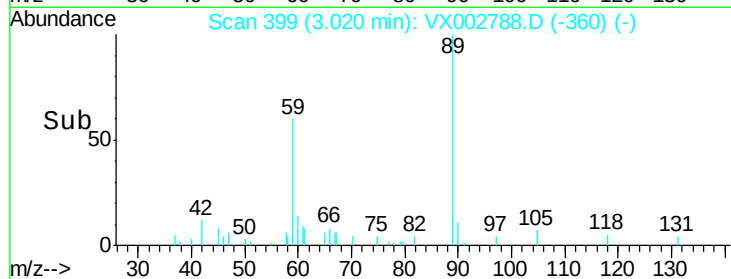
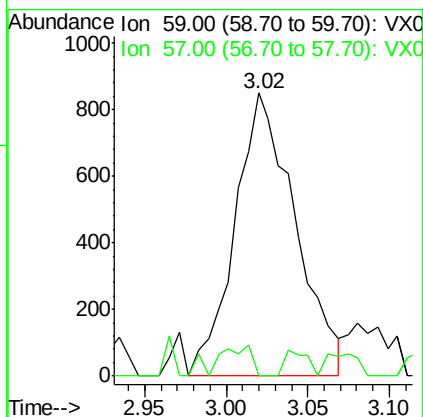
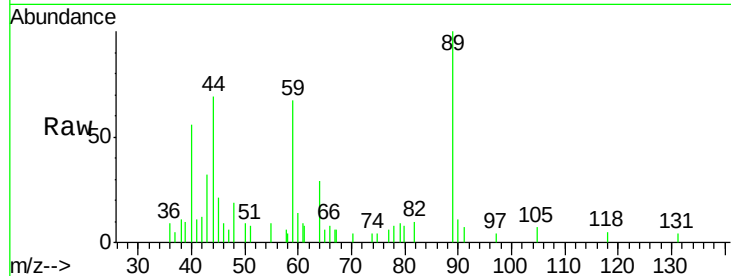




#11  
Tert butyl alcohol  
Concen: 3.34 ug/l  
RT: 3.02 min Scan# 399  
Delta R.T. -0.06 min  
Lab File: VX002788.D  
Acq: 21 Jun 2018 15:10

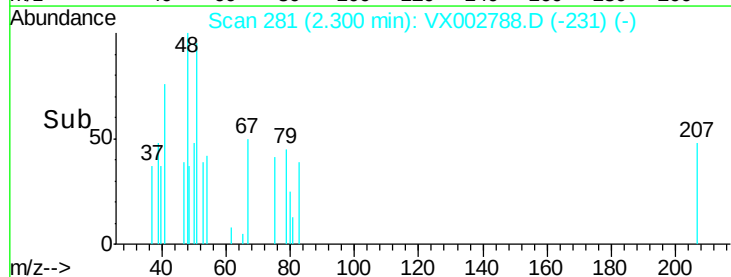
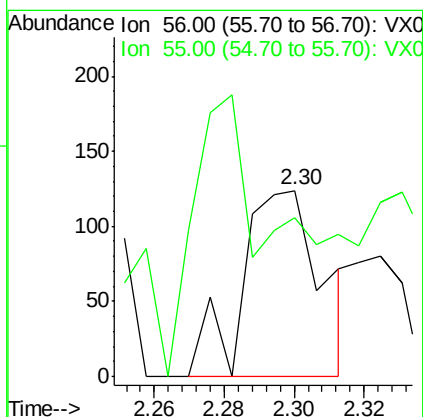
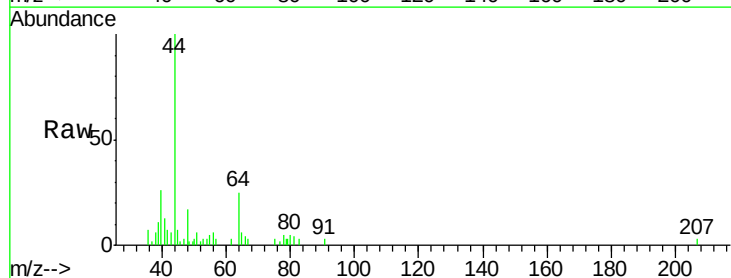
Instrument :  
MSVOA\_X  
ClientSampled :

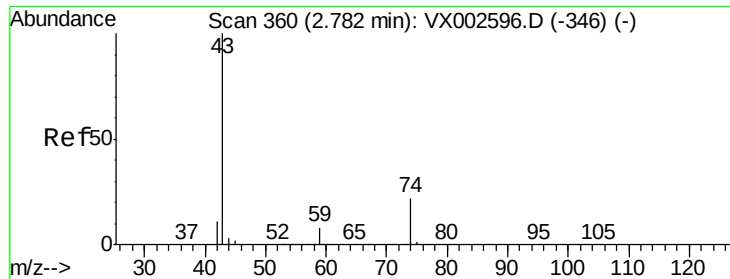
Tot Ion: 59 Resp: 2186  
Ion Ratio Lower Upper  
59 100  
57 6.2 8.2 12.2#



#13  
Acrolein  
Concen: 7.48 ug/l  
RT: 2.30 min Scan# 281  
Delta R.T. 0.01 min  
Lab File: VX002788.D  
Acq: 21 Jun 2018 15:10

Tgt Ion: 56 Resp: 196  
Ion Ratio Lower Upper  
56 100  
55 118.9 57.0 85.4#

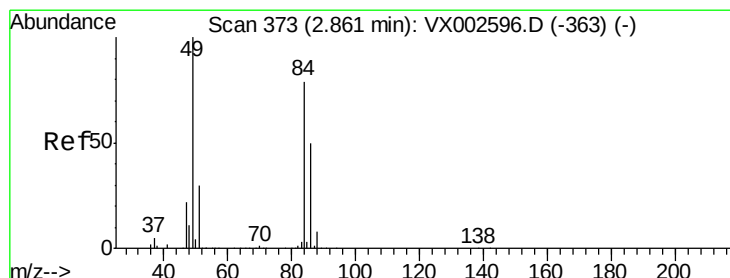
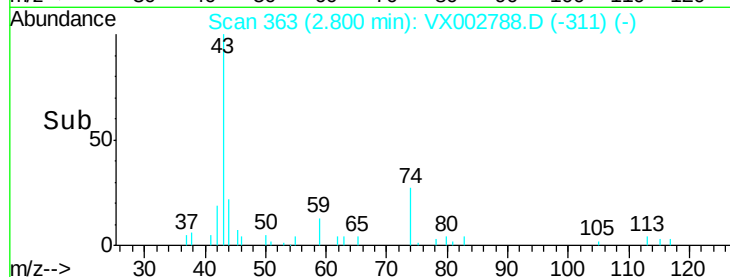
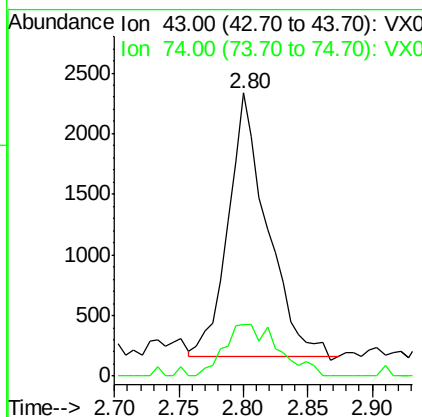
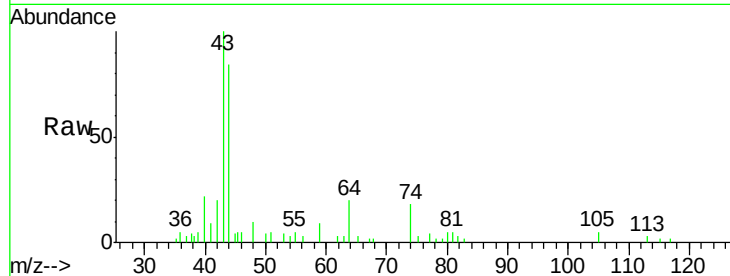




#18  
Methyl Acetate  
Concen: 1.23 ug/l  
RT: 2.80 min Scan# 363  
Delta R.T. 0.02 min  
Lab File: VX002788.D  
Acq: 21 Jun 2018 15:10

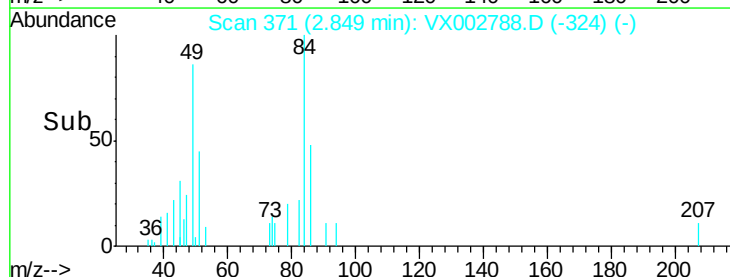
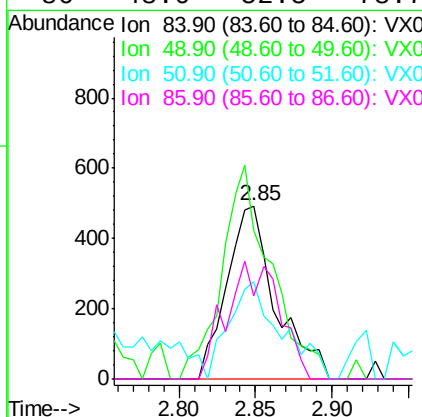
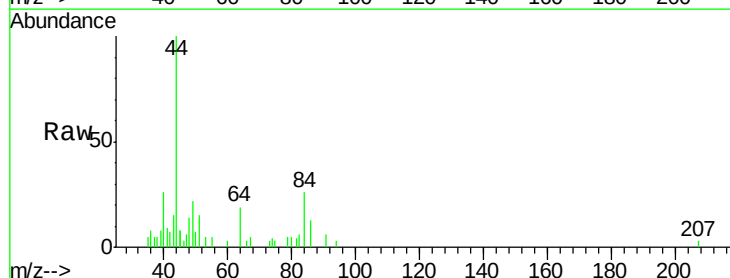
Instrument :  
MSVOA\_X  
ClientSampleId :

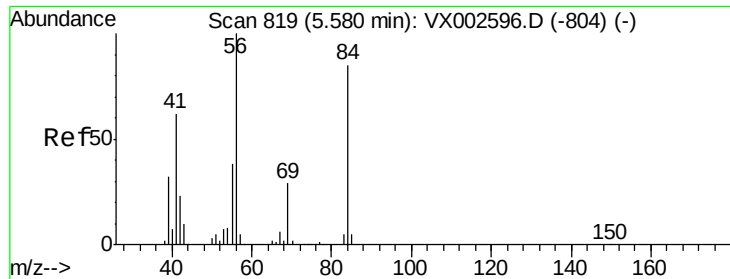
Tot Ion: 43 Resp: 4585  
Ion Ratio Lower Upper  
43 100  
74 27.6 16.7 25.1#



#20  
Methylene Chloride  
Concen: 0.38 ug/l  
RT: 2.85 min Scan# 371  
Delta R.T. -0.01 min  
Lab File: VX002788.D  
Acq: 21 Jun 2018 15:10

Tgt Ion: 84 Resp: 1092  
Ion Ratio Lower Upper  
84 100  
49 85.8 107.8 161.6#  
51 56.1 32.8 49.2#  
86 48.0 52.5 78.7#

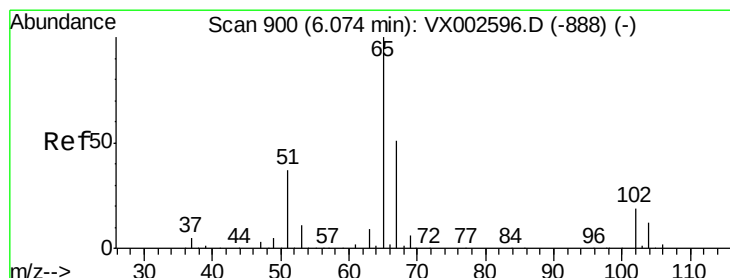
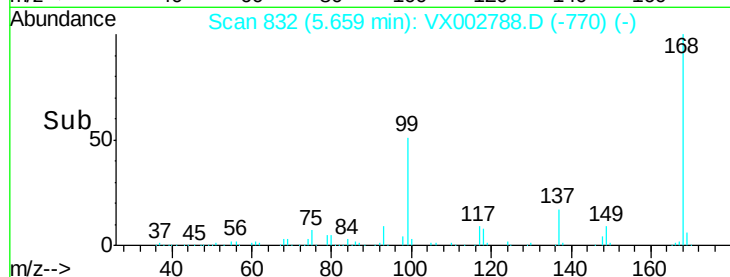
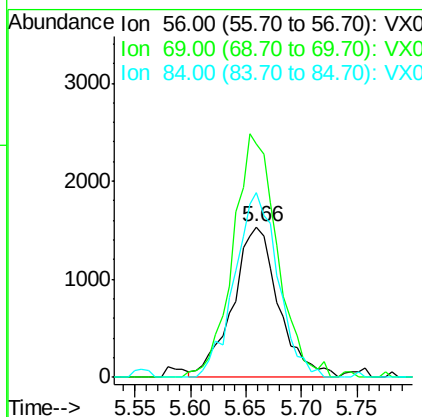
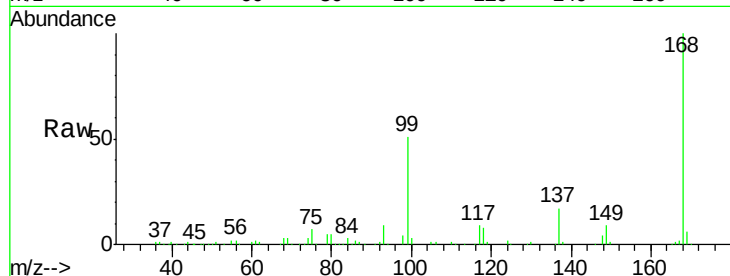




#31  
Cyclohexane  
Concen: 1.18 ug/l  
RT: 5.66 min Scan# 832  
Delta R.T. 0.08 min  
Lab File: VX002788.D  
Acq: 21 Jun 2018 15:10

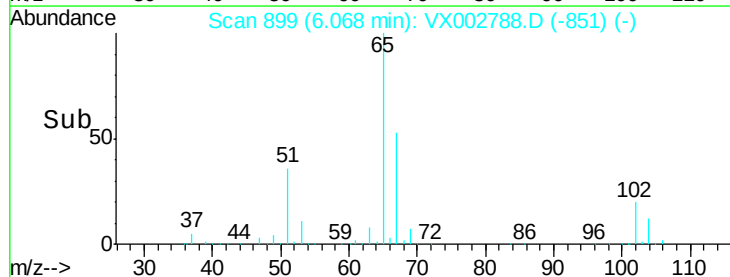
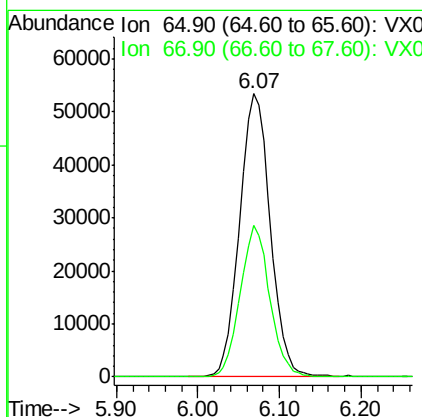
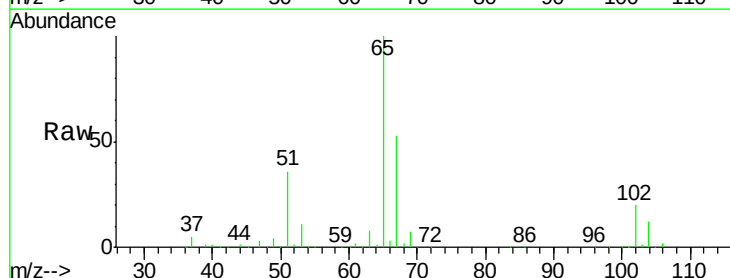
Instrument :  
MSVOA\_X  
ClientSampleId :

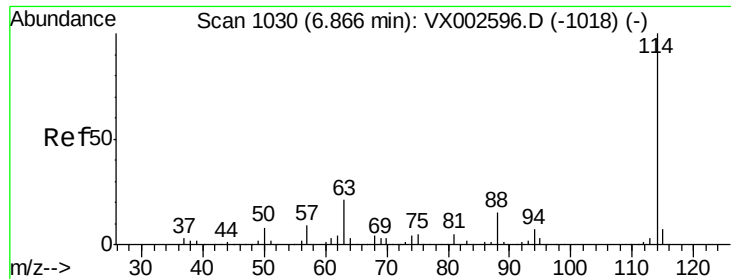
Tot Ion: 56 Resp: 4399  
Ion Ratio Lower Upper  
56 100  
69 155.2 23.7 35.5#  
84 122.6 64.1 96.1#



#33  
1,2-Dichloroethane-d4  
Concen: 44.10 ug/l  
RT: 6.07 min Scan# 899  
Delta R.T. -0.01 min  
Lab File: VX002788.D  
Acq: 21 Jun 2018 15:10

Tgt Ion: 65 Resp: 139801  
Ion Ratio Lower Upper  
65 100  
67 51.4 0.0 102.6

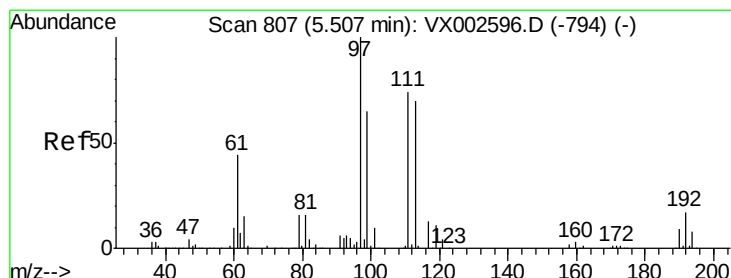
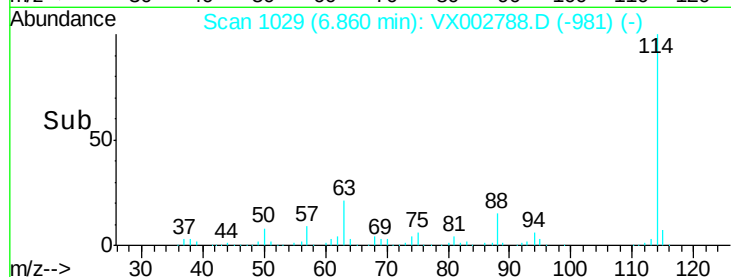
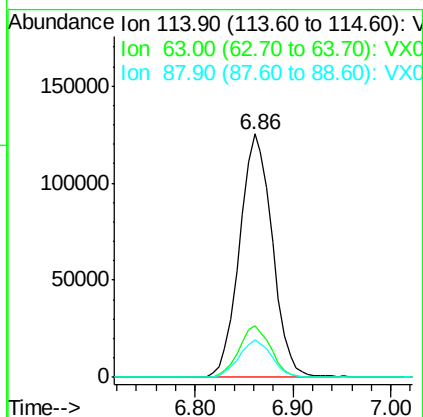
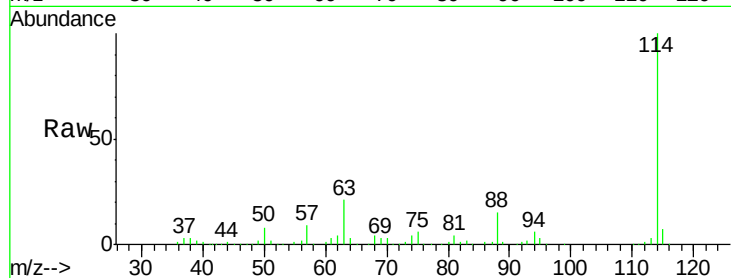




#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.86 min Scan# 1029  
 Delta R.T. -0.01 min  
 Lab File: VX002788.D  
 Acq: 21 Jun 2018 15:10

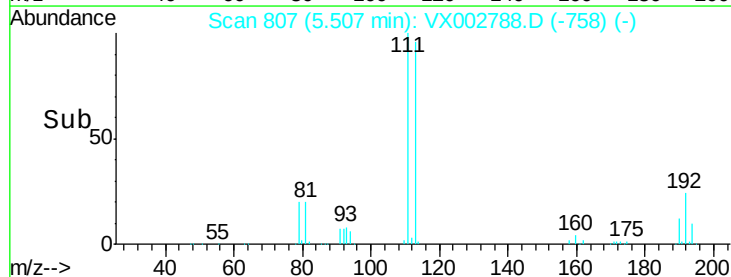
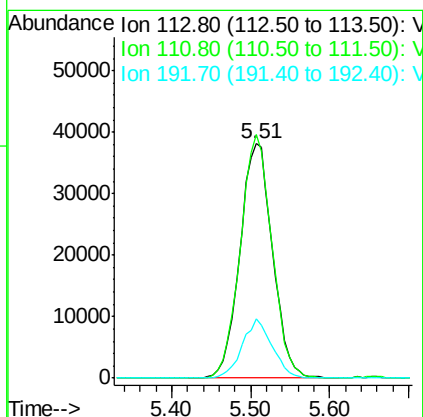
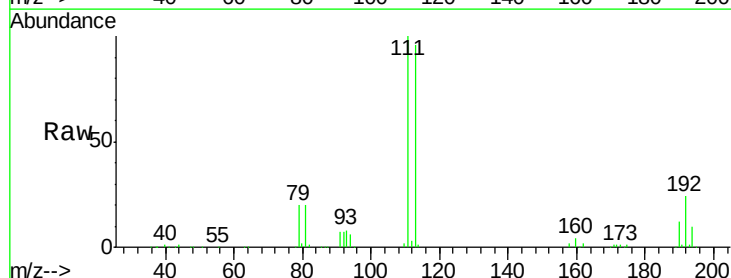
Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tot Ion:114 Resp: 291104  
 Ion Ratio Lower Upper  
 114 100  
 63 21.3 0.0 41.4  
 88 15.4 0.0 30.0

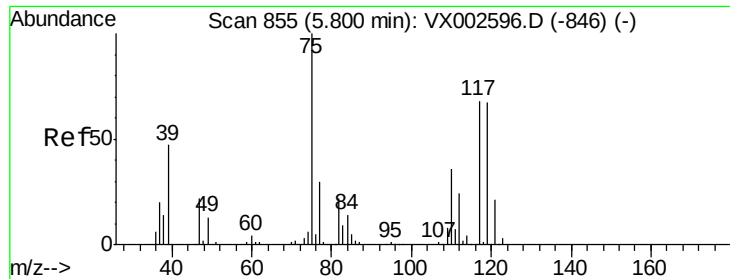


#35  
 Dibromofluoromethane  
 Concen: 47.14 ug/l  
 RT: 5.51 min Scan# 807  
 Delta R.T. 0.00 min  
 Lab File: VX002788.D  
 Acq: 21 Jun 2018 15:10

Tgt Ion:113 Resp: 109530  
 Ion Ratio Lower Upper  
 113 100  
 111 100.9 81.4 122.0  
 192 23.5 19.1 28.7



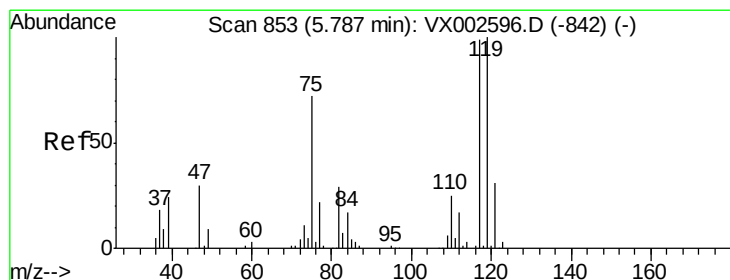
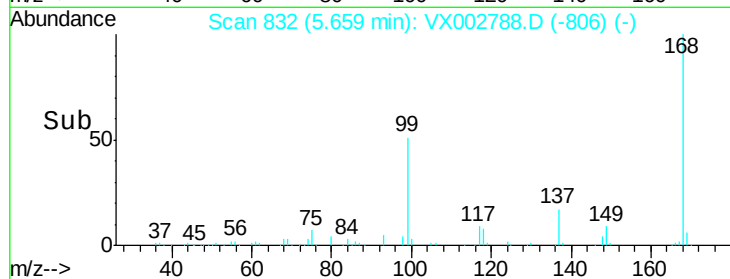
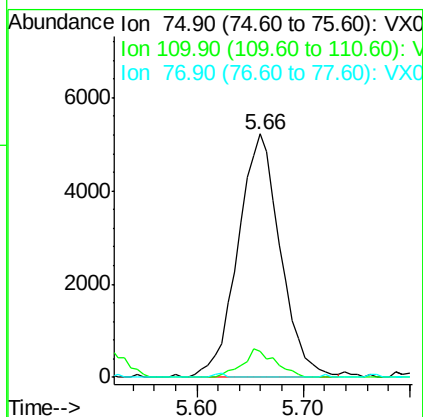
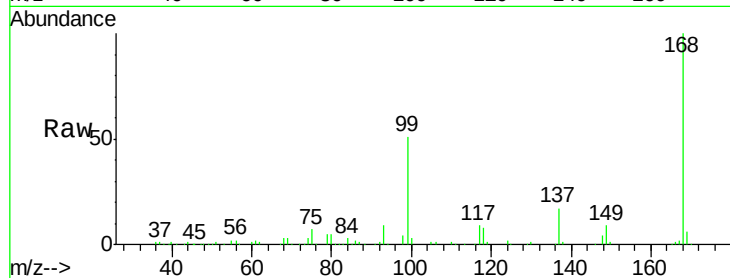




#36  
 1,1-Dichloropropene  
 Concen: 4.72 ug/l  
 RT: 5.66 min Scan# 832  
 Delta R.T. -0.14 min  
 Lab File: VX002788.D  
 Acq: 21 Jun 2018 15:10

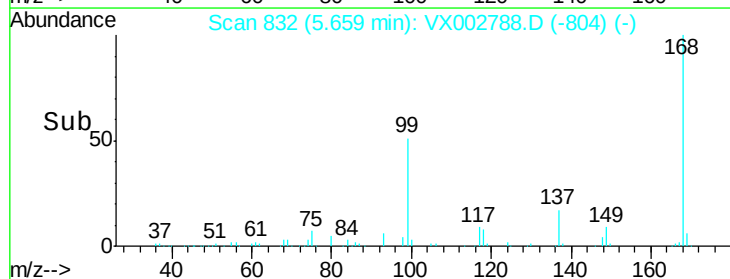
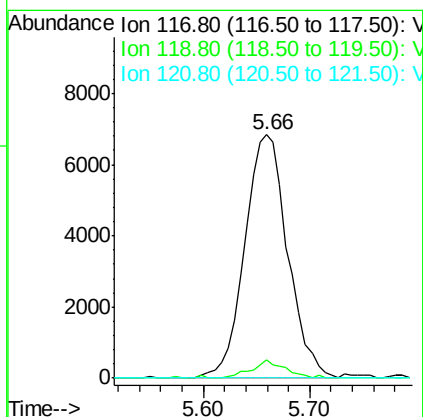
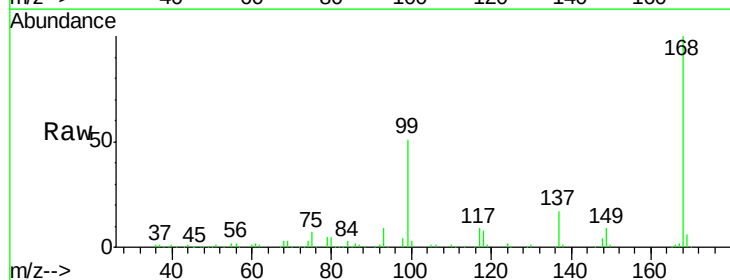
Instrument :  
 MSVOA\_X  
 ClientSampleId :

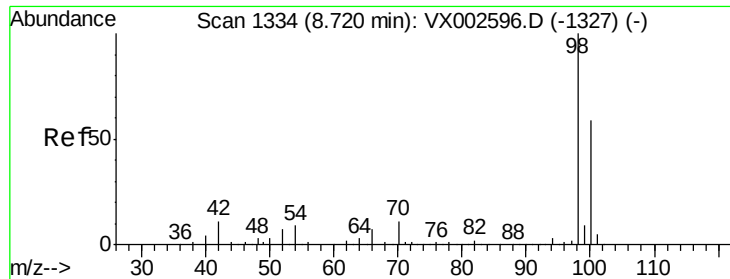
| Tot Ion   | 75    | Resp  | 14600 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 9.0   | 18.1  | 54.4# |
| 77        | 0.0   | 24.3  | 36.5# |



#38  
 Carbon Tetrachloride  
 Concen: 6.25 ug/l  
 RT: 5.66 min Scan# 832  
 Delta R.T. -0.13 min  
 Lab File: VX002788.D  
 Acq: 21 Jun 2018 15:10

| Tgt Ion   | 117   | Resp  | 19231  |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 7.7   | 77.4  | 116.0# |
| 121       | 0.0   | 24.4  | 36.6#  |

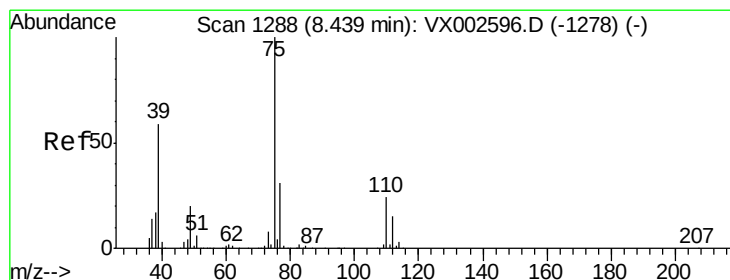
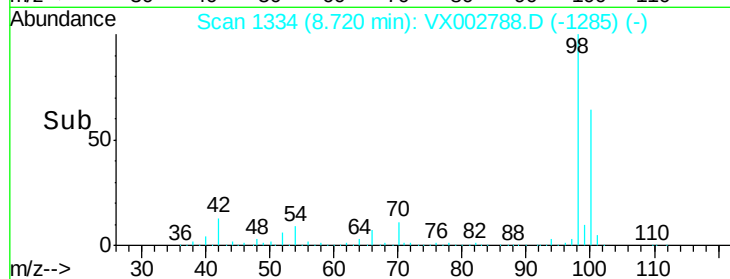
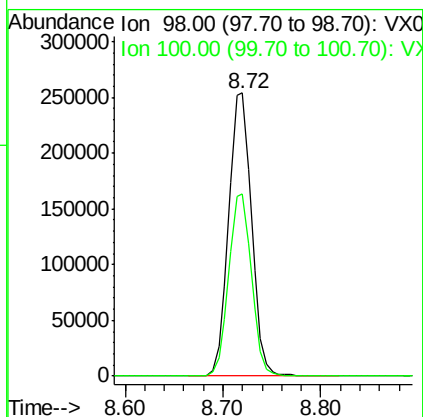
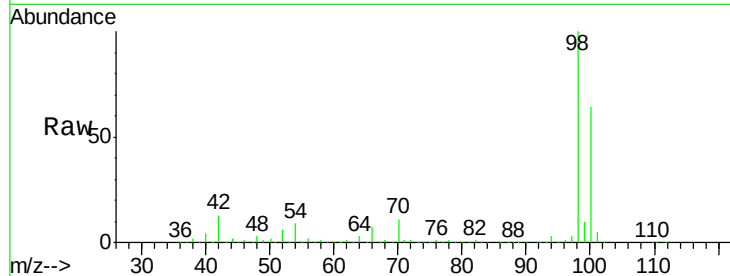




#50  
Toluene-d8  
Concen: 46.95 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. 0.00 min  
Lab File: VX002788.D  
Acq: 21 Jun 2018 15:10

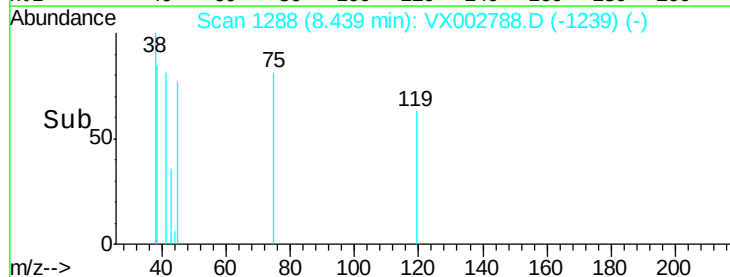
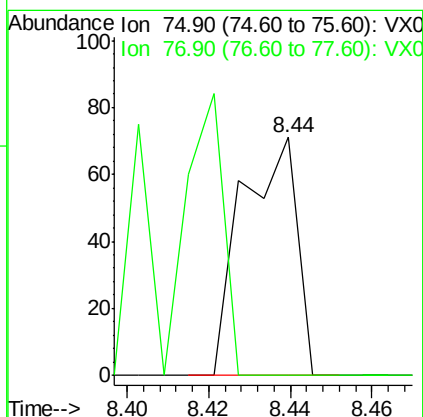
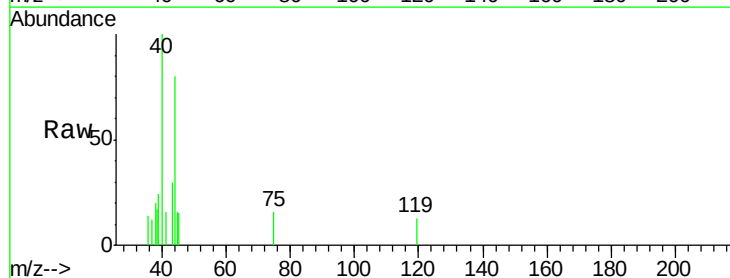
Instrument :  
MSVOA\_X  
ClientSampled :

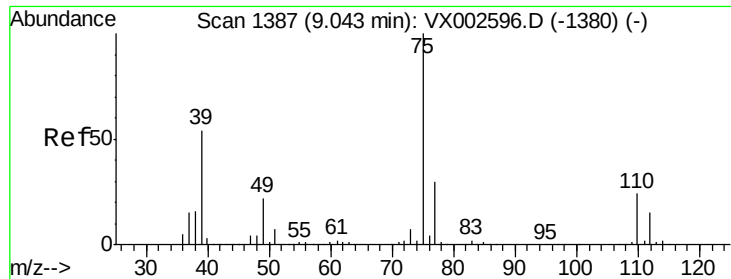
Tot Ion: 98 Resp: 414125  
Ion Ratio Lower Upper  
98 100  
100 64.1 50.9 76.3



#53  
t-1,3-Dichloropropene  
Concen: 2.41 ug/l  
RT: 8.44 min Scan# 1288  
Delta R.T. 0.00 min  
Lab File: VX002788.D  
Acq: 21 Jun 2018 15:10

Tgt Ion: 75 Resp: 67  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.4 38.2#



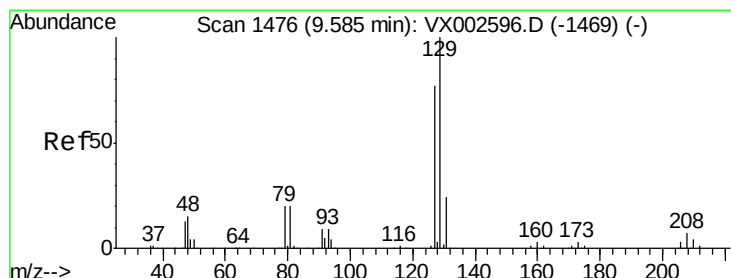
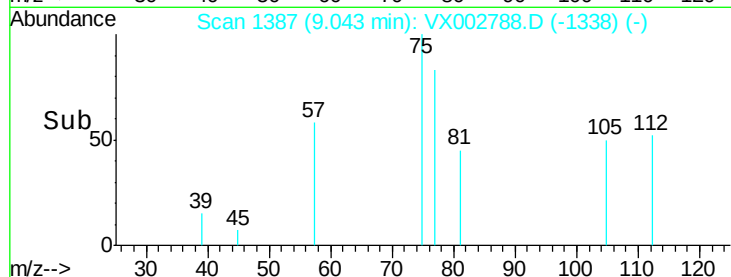
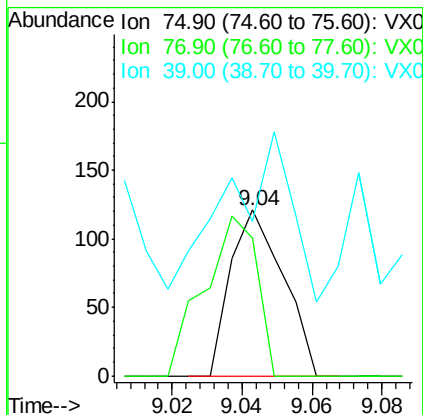
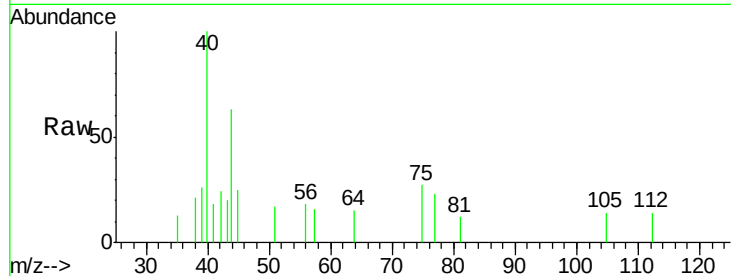


#54

cis-1,3-Dichloropropene  
Concen: 3.25 ug/l  
RT: 9.04 min Scan# 1387  
Delta R.T. 0.00 min  
Lab File: VX002788.D  
Acq: 21 Jun 2018 15:10

Instrument :  
MSVOA\_X  
ClientSampled :

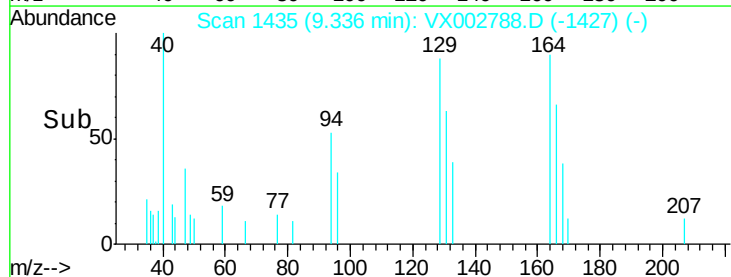
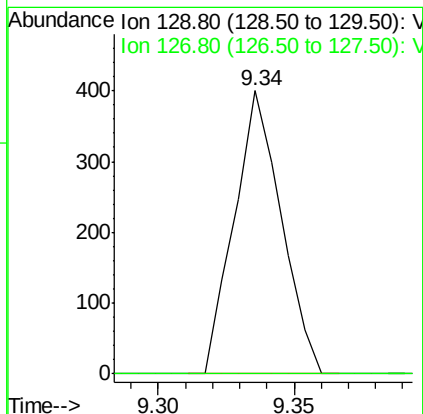
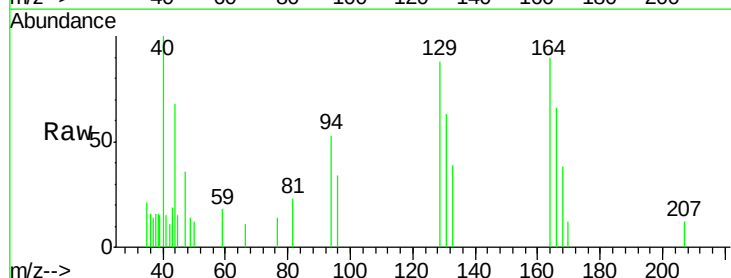
Tot Ion: 75 Resp: 127  
Ion Ratio Lower Upper  
75 100  
77 83.5 24.8 37.2#  
39 27.3 42.4 63.6#

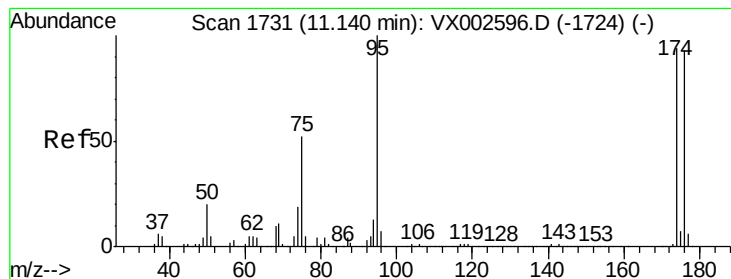


#60

Dibromochloromethane  
Concen: 3.92 ug/l  
RT: 9.34 min Scan# 1435  
Delta R.T. -0.25 min  
Lab File: VX002788.D  
Acq: 21 Jun 2018 15:10

Tgt Ion: 129 Resp: 478  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.5 115.3#





#62

4-Bromofluorobenzene

Concen: 46.64 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002788.D

Acq: 21 Jun 2018 15:10

Instrument :

MSVOA\_X

ClientSampleId :

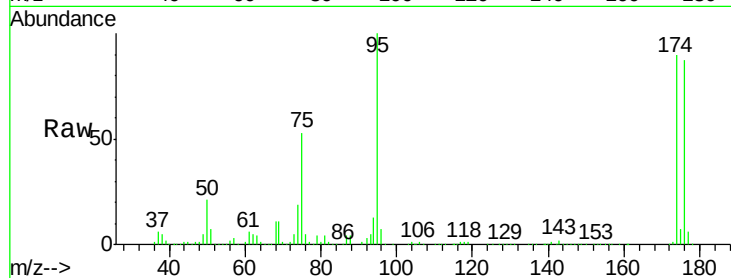
Tot Ion: 95 Resp: 155894

Ion Ratio Lower Upper

95 100

174 96.9 0.0 187.4

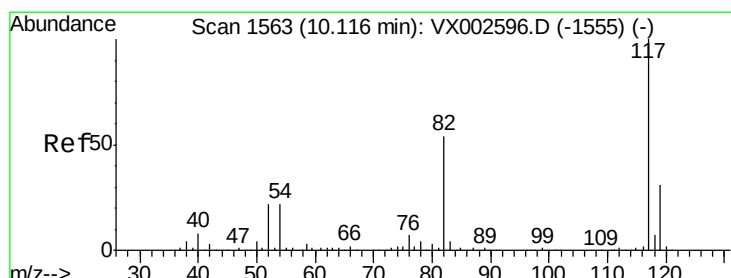
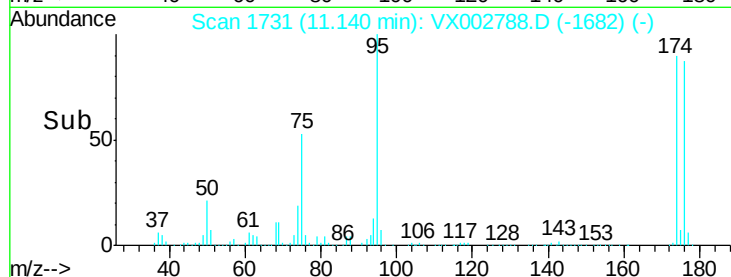
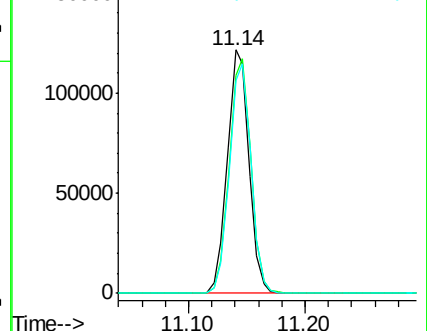
176 94.7 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002596.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX002596.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX002596.D (-1724) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX002788.D

Acq: 21 Jun 2018 15:10

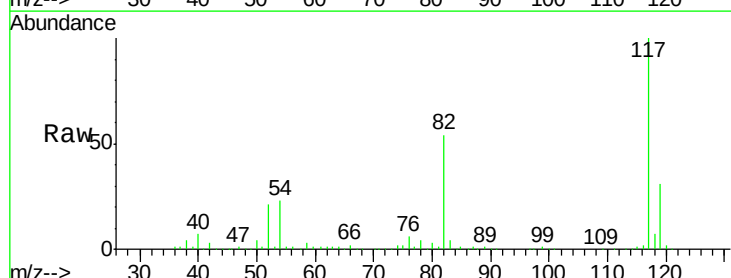
Tgt Ion: 117 Resp: 278608

Ion Ratio Lower Upper

117 100

82 54.4 45.0 67.4

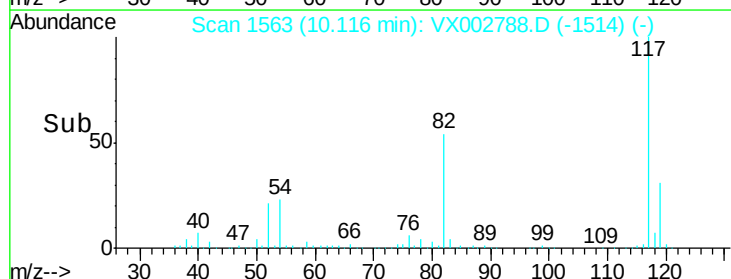
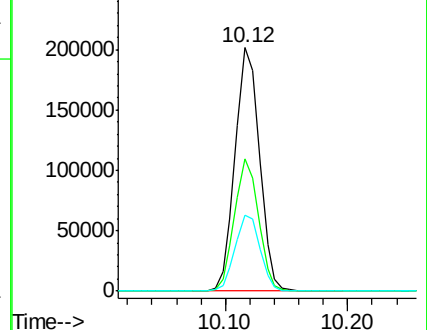
119 31.4 25.8 38.6

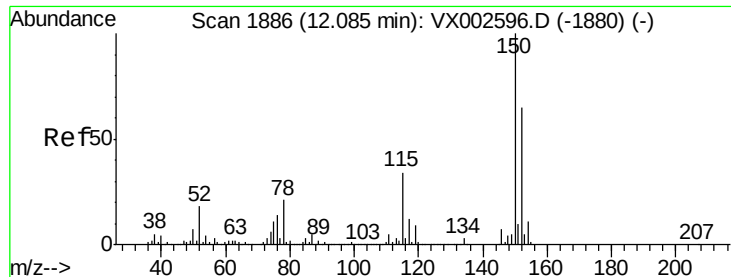


Abundance Ion 116.90 (116.60 to 117.60): VX002596.D (-1555) (-)

Ion 82.00 (81.70 to 82.70): VX002596.D (-1555) (-)

Ion 118.90 (118.60 to 119.60): VX002596.D (-1555) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002788.D

Acq: 21 Jun 2018 15:10

Instrument :

MSVOA\_X

ClientSampled :

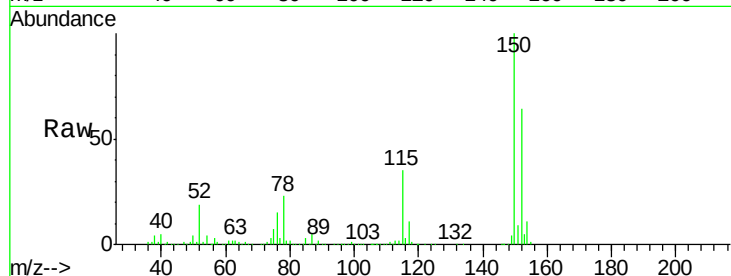
Tot Ion:152 Resp: 170702

Ion Ratio Lower Upper

152 100

115 55.1 40.1 120.2

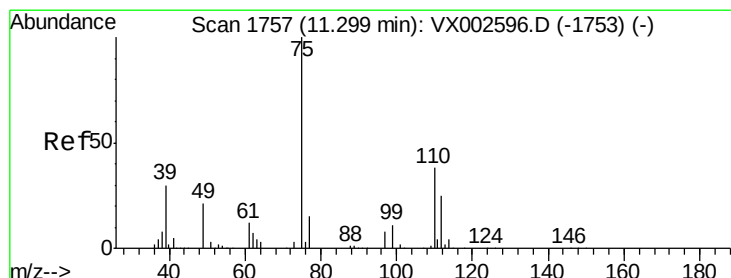
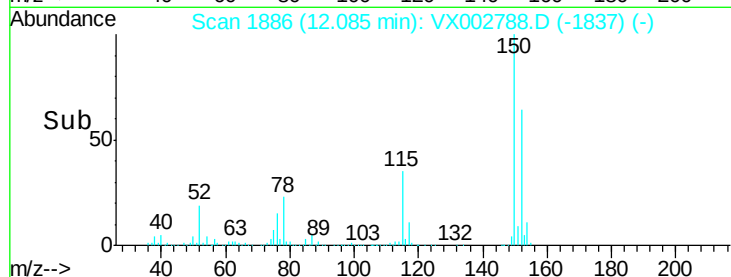
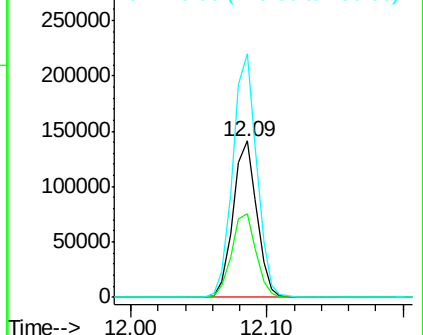
150 157.5 0.0 347.2



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: 25.51 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002788.D

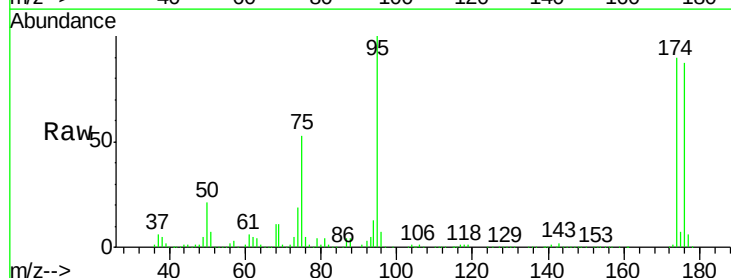
Acq: 21 Jun 2018 15:10

Tgt Ion: 75 Resp: 82162

Ion Ratio Lower Upper

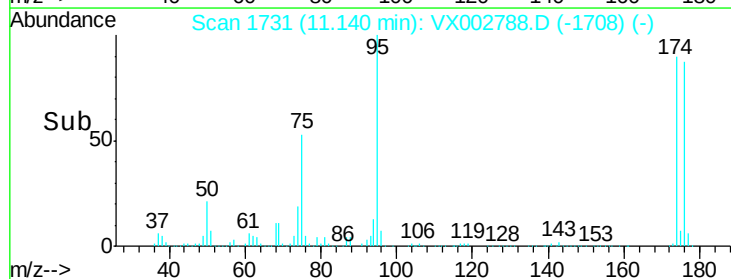
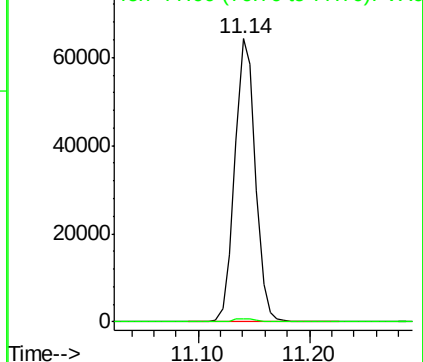
75 100

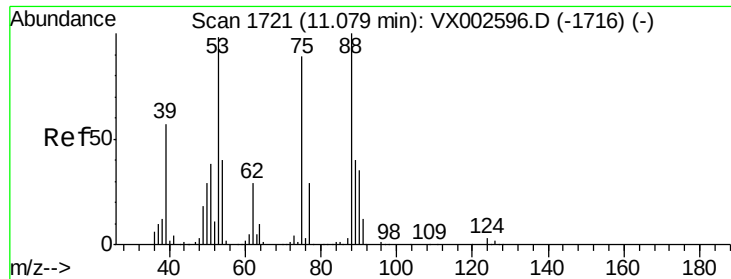
77 1.4 22.8 68.3#



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: 78.97 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002788.D

Acq: 21 Jun 2018 15:10

Instrument :

MSVOA\_X

ClientSampleId :

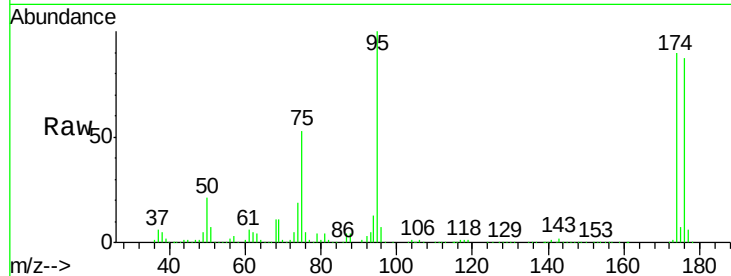
Tot Ion: 75 Resp: 82162

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

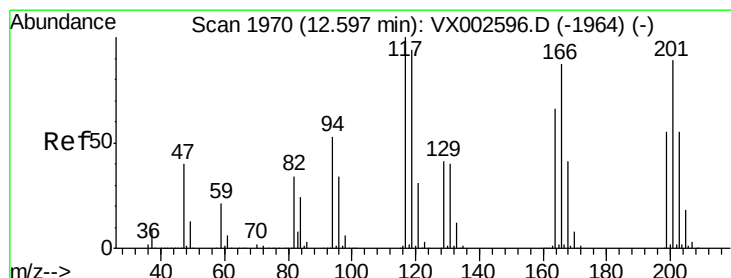
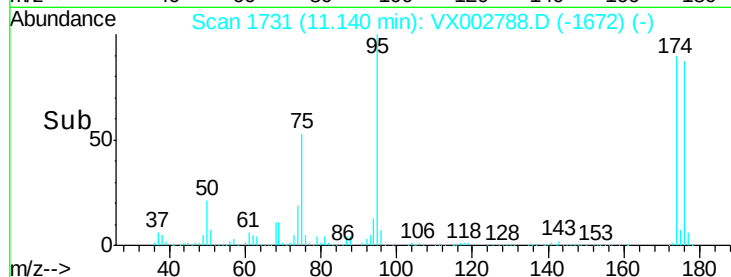
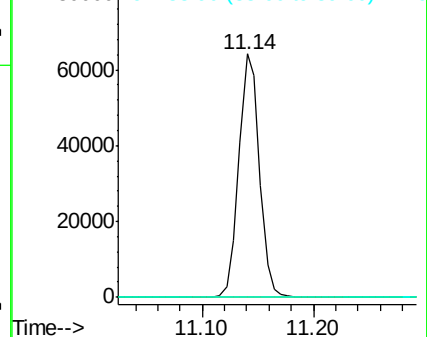
89 0.0 38.2 57.2#



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



#90

Hexachloroethane

Concen: 2.65 ug/l

RT: 12.61 min Scan# 1972

Delta R.T. 0.01 min

Lab File: VX002788.D

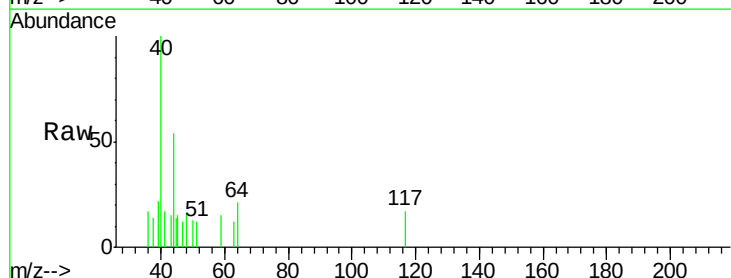
Acq: 21 Jun 2018 15:10

Tgt Ion: 117 Resp: 48

Ion Ratio Lower Upper

117 100

201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

