

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX082219\  
 Data File : VX011777.D  
 Acq On : 22 Aug 2019 21:13  
 Operator : JC/SP  
 Sample : K4403-23  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T1-H3-(0)

Quant Time: Aug 23 02:06:28 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082219W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 23 01:48:12 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 410448   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 575037   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 519745   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 246570   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.06   | 65  | 210843   | 51.14 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.28% |      |
| 35) Dibromofluoromethane  | 5.49   | 113 | 176177   | 47.38 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.76%  |      |
| 50) Toluene-d8            | 8.71   | 98  | 661902   | 51.03 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.06% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 229382   | 44.74 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 89.48%  |      |

## Target Compounds

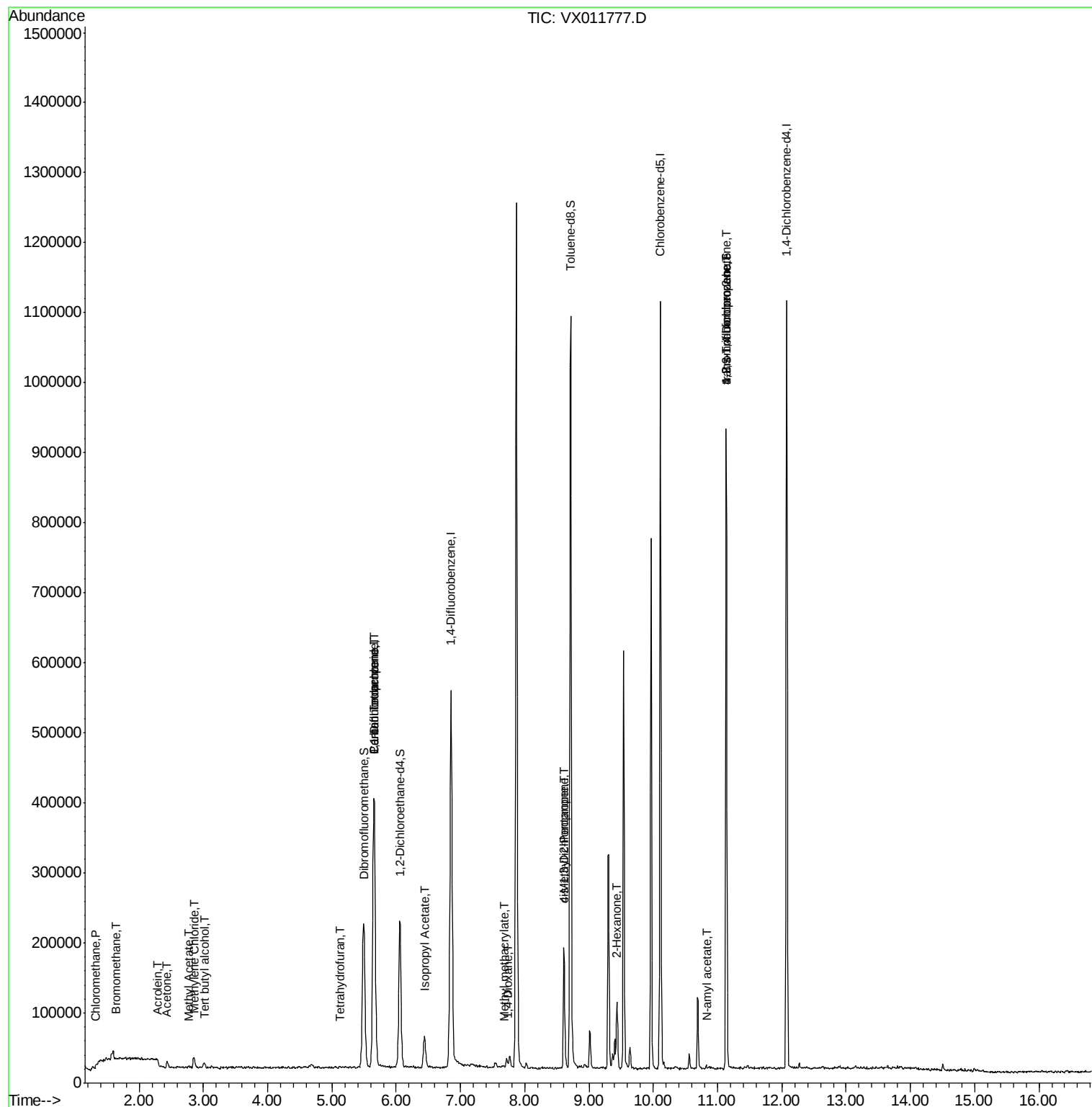
|                                |       |     |        |        |        | Qvalue |
|--------------------------------|-------|-----|--------|--------|--------|--------|
| 3) Chloromethane               | 1.32  | 50  | 791    | 0.235  | ug/l # | 85     |
| 5) Bromomethane                | 1.64  | 94  | 380    | 0.205  | ug/l # | 22     |
| 11) Tert butyl alcohol         | 3.02  | 59  | 4236   | 5.199  | ug/l # | 83     |
| 13) Acrolein                   | 2.29  | 56  | 554    | 1.759  | ug/l # | 16     |
| 16) Acetone                    | 2.43  | 43  | 9009   | 5.023  | ug/l   | 89     |
| 18) Methyl Acetate             | 2.77  | 43  | 3569   | 0.733  | ug/l   | 95     |
| 20) Methylene Chloride         | 2.85  | 84  | 8439   | 2.301  | ug/l   | 95     |
| 29) Tetrahydrofuran            | 5.13  | 42  | 735    | 0.445  | ug/l # | 80     |
| 36) 1,1-Dichloropropene        | 5.65  | 75  | 24192  | 5.365  | ug/l # | 54     |
| 38) Carbon Tetrachloride       | 5.66  | 117 | 36403  | 7.123  | ug/l # | 17     |
| 43) Isopropyl Acetate          | 6.44  | 43  | 60045  | 7.774  | ug/l   | 97     |
| 48) Methyl methacrylate        | 7.68  | 41  | 3903   | 1.015  | ug/l # | 13     |
| 49) 1,4-Dioxane                | 7.74  | 88  | 159    | 1.493  | ug/l # | 1      |
| 51) 4-Methyl-2-Pentanone       | 8.61  | 43  | 61412  | 12.067 | ug/l # | 46     |
| 54) cis-1,3-Dichloropropene    | 8.61  | 75  | 27793  | 5.215  | ug/l # | 63     |
| 59) 2-Hexanone                 | 9.43  | 43  | 62871  | 16.095 | ug/l # | 25     |
| 74) N-amyl acetate             | 10.83 | 43  | 3039   | 0.528  | ug/l # | 56     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75  | 109040 | 25.203 | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75  | 109040 | 76.006 | ug/l # | 11     |

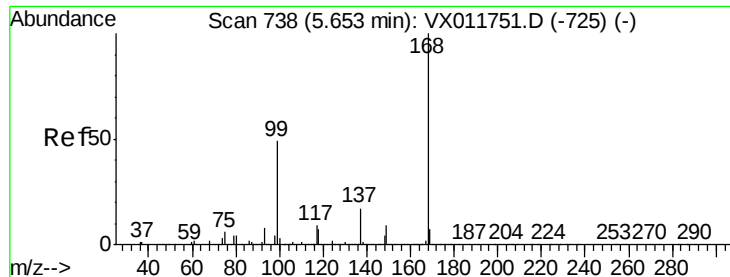
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011777.D

Acq: 22 Aug 2019 21:13

Instrument :

MSVOA\_X

ClientSampleId :

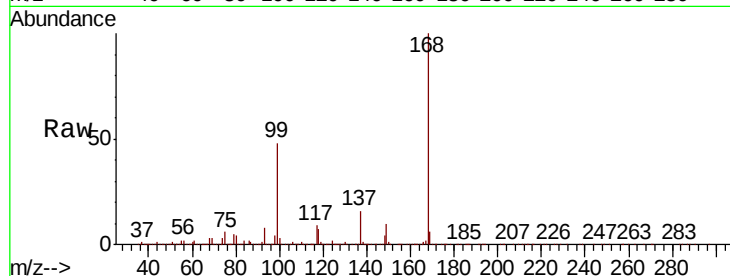
T1-H3-(0)

Tgt Ion:168 Resp: 410448

Ion Ratio Lower Upper

168 100

99 48.2 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

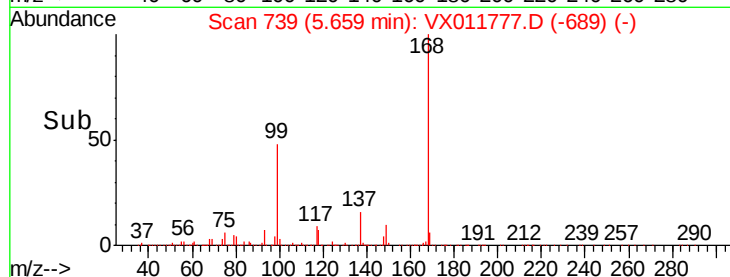
150000

100000

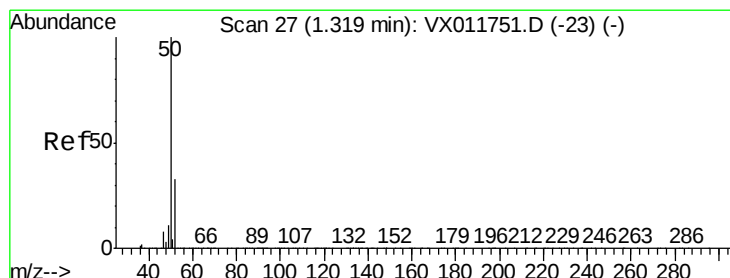
50000

0

5.50 5.60 5.70 5.80



Time-->



#3

Chloromethane

Concen: 0.235 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX011777.D

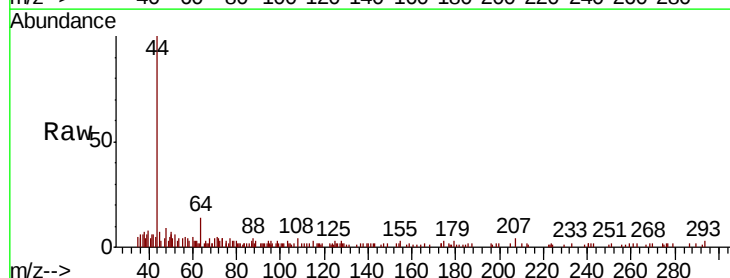
Acq: 22 Aug 2019 21:13

Tgt Ion: 50 Resp: 791

Ion Ratio Lower Upper

50 100

52 24.7 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

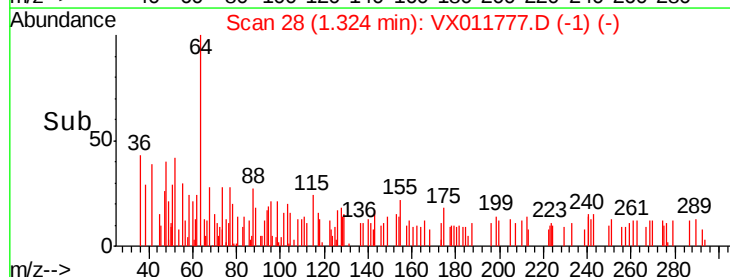
600

400

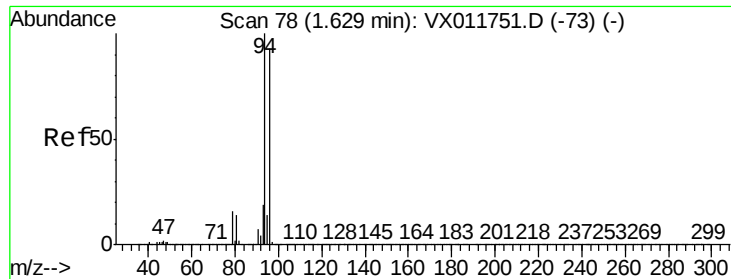
200

0

1.30 1.32 1.34



Time-->



#5

Bromomethane

Concen: 0.205 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX011777.D

Acq: 22 Aug 2019 21:13

Instrument :

MSVOA\_X

ClientSampleId :

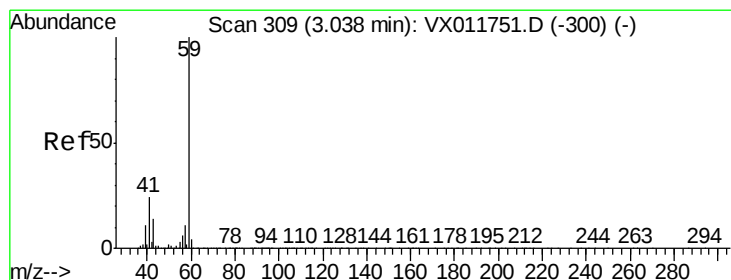
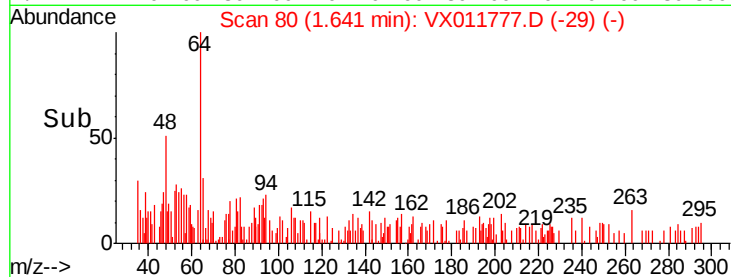
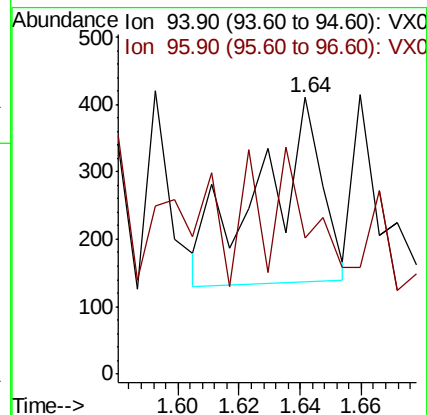
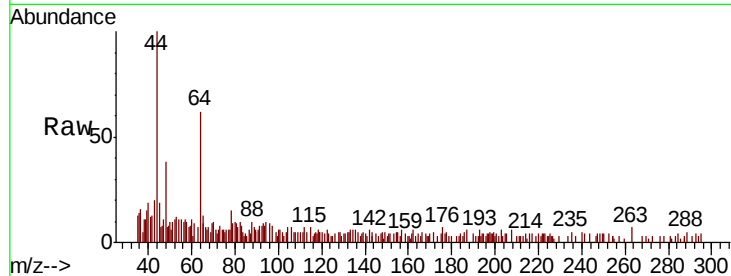
T1-H3-(0)

Tgt Ion: 94 Resp: 380

Ion Ratio Lower Upper

94 100

96 17.6 74.1 111.1#



#11

Tert butyl alcohol

Concen: 5.199 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.02 min

Lab File: VX011777.D

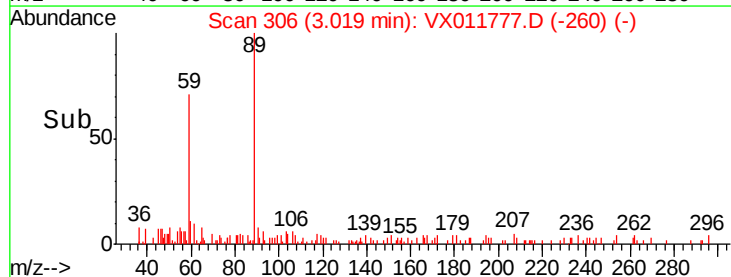
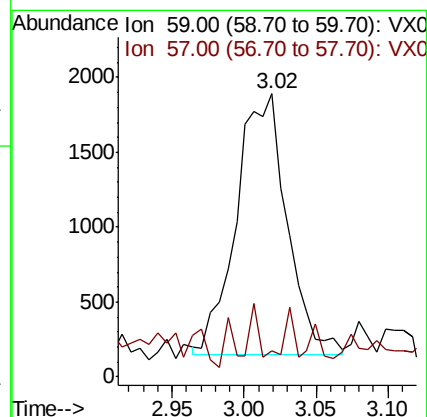
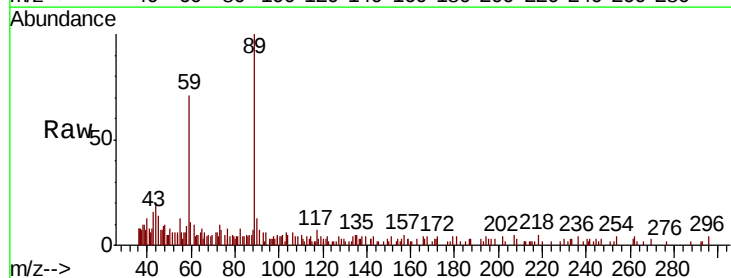
Acq: 22 Aug 2019 21:13

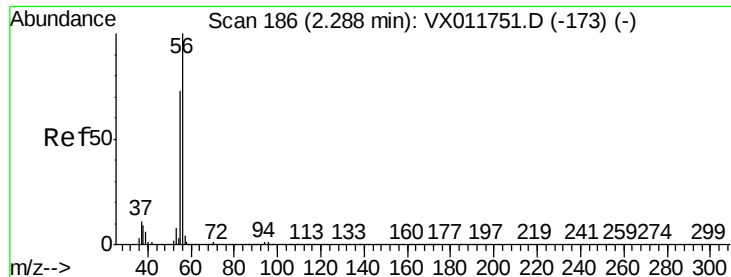
Tgt Ion: 59 Resp: 4236

Ion Ratio Lower Upper

59 100

57 4.2 8.4 12.6#

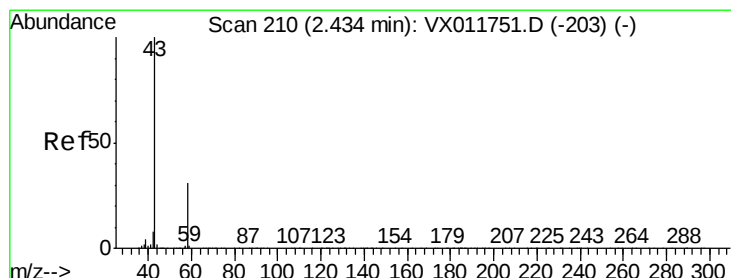
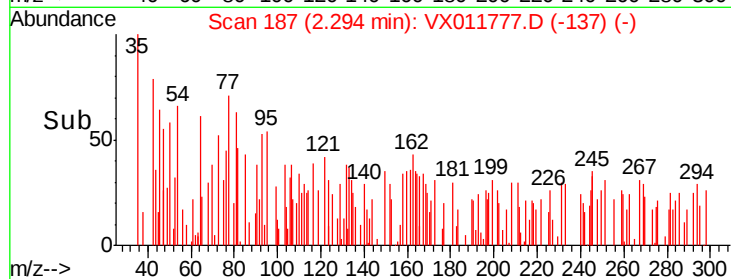
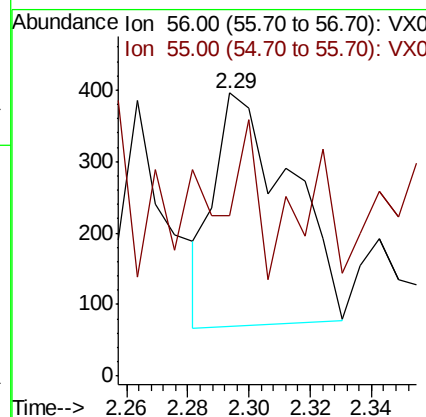
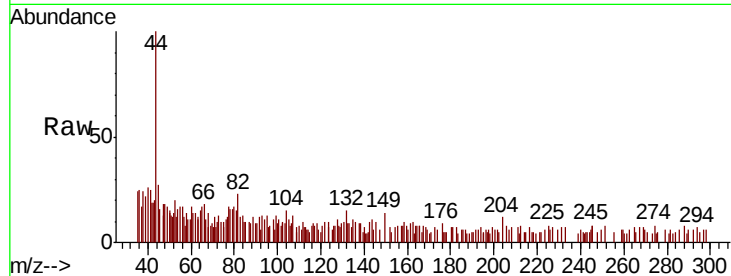




#13  
Acrolein  
Concen: 1.759 ug/l  
RT: 2.29 min Scan# 187  
Delta R.T. 0.01 min  
Lab File: VX011777.D  
Acq: 22 Aug 2019 21:13

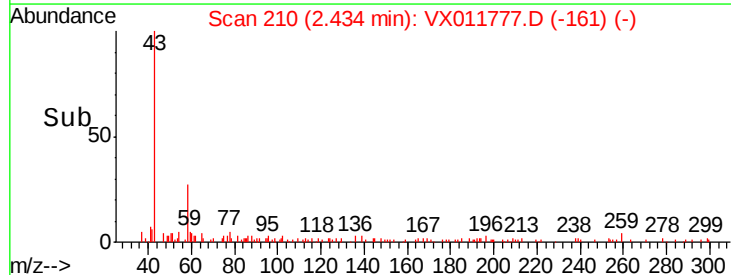
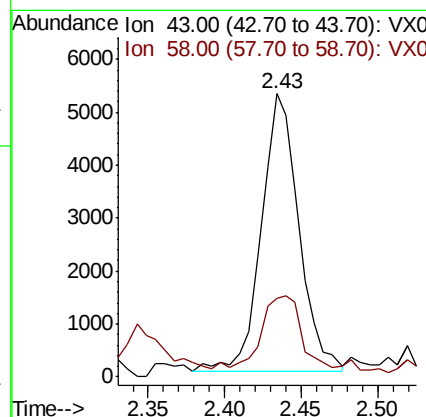
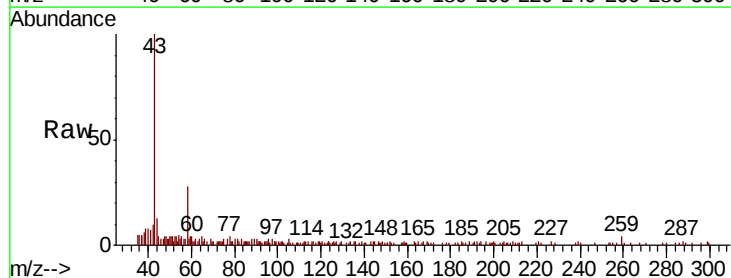
Instrument :  
MSVOA\_X  
ClientSampleId :  
T1-H3-(0)

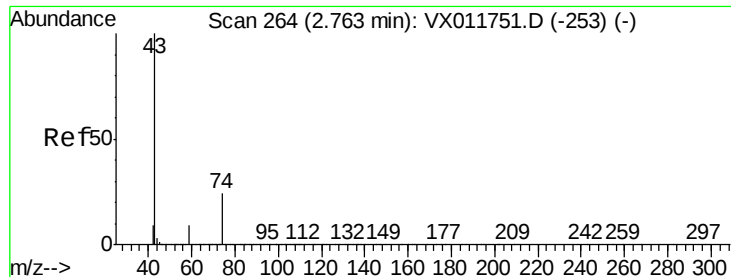
Tgt Ion: 56 Resp: 554  
Ion Ratio Lower Upper  
56 100  
55 0.0 54.8 82.2#



#16  
Acetone  
Concen: 5.023 ug/l  
RT: 2.43 min Scan# 210  
Delta R.T. -0.00 min  
Lab File: VX011777.D  
Acq: 22 Aug 2019 21:13

Tgt Ion: 43 Resp: 9009  
Ion Ratio Lower Upper  
43 100  
58 24.5 24.4 36.6

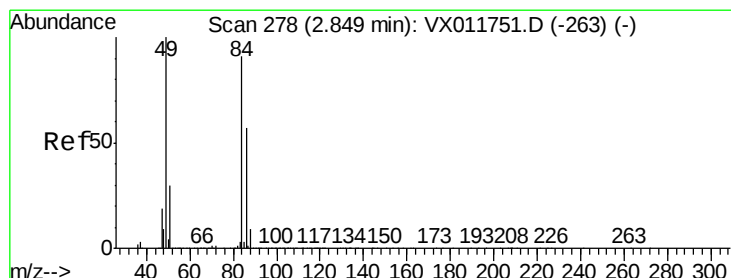
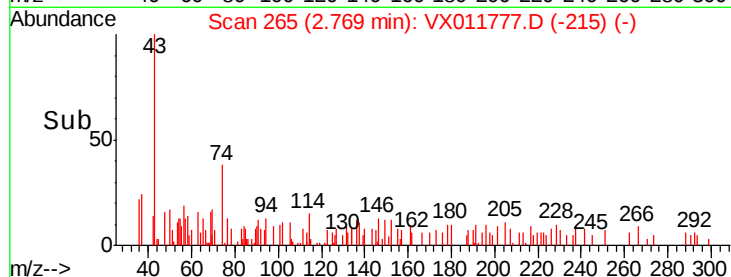
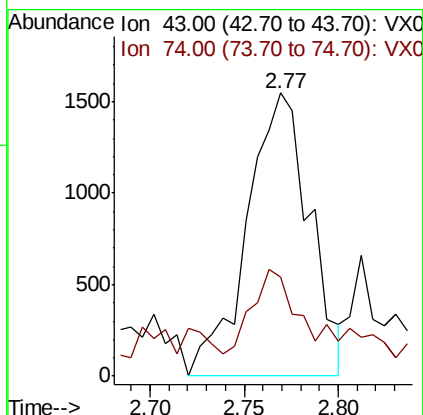
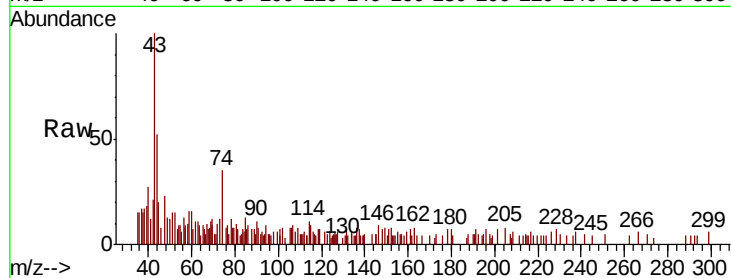




#18  
Methyl Acetate  
Concen: 0.733 ug/l  
RT: 2.77 min Scan# 265  
Delta R.T. 0.01 min  
Lab File: VX011777.D  
Acq: 22 Aug 2019 21:13

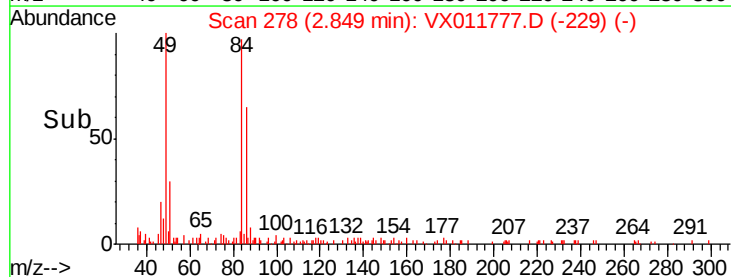
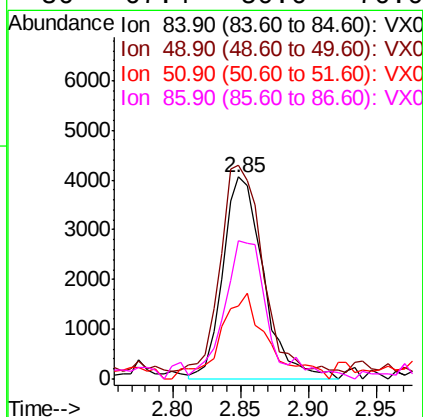
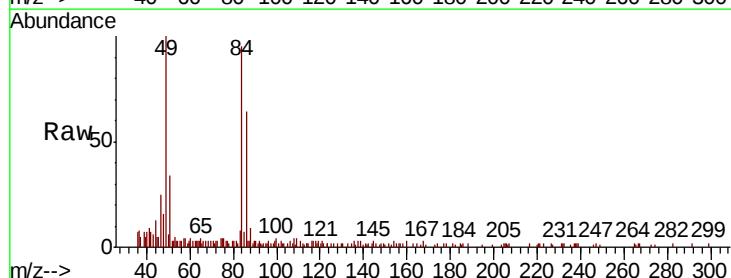
Instrument :  
MSVOA\_X  
ClientSampleId :  
T1-H3-(0)

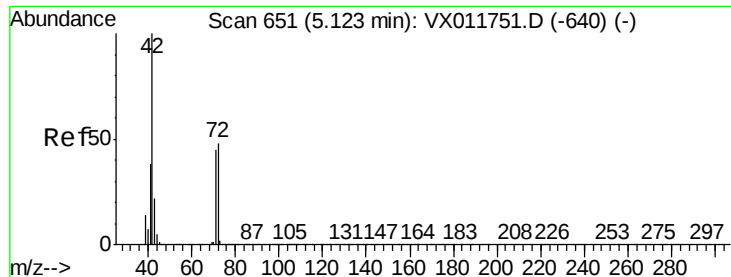
Tgt Ion: 43 Resp: 3569  
Ion Ratio Lower Upper  
43 100  
74 22.1 19.5 29.3



#20  
Methylene Chloride  
Concen: 2.301 ug/l  
RT: 2.85 min Scan# 278  
Delta R.T. -0.00 min  
Lab File: VX011777.D  
Acq: 22 Aug 2019 21:13

Tgt Ion: 84 Resp: 8439  
Ion Ratio Lower Upper  
84 100  
49 103.3 88.3 132.5  
51 32.0 26.2 39.2  
86 67.4 50.6 76.0





#29

Tetrahydrofuran

Concen: 0.445 ug/l

RT: 5.13 min Scan# 652

Delta R.T. 0.01 min

Lab File: VX011777.D

Acq: 22 Aug 2019 21:13

Instrument :

MSVOA\_X

ClientSampled :

T1-H3-(0)

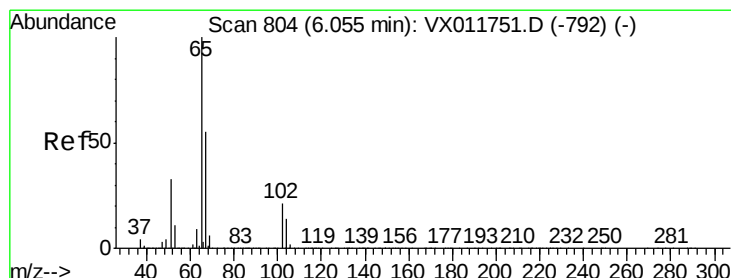
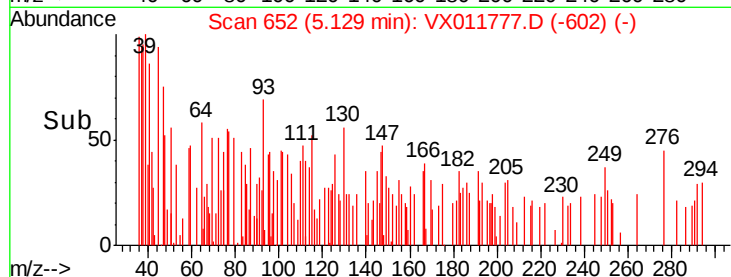
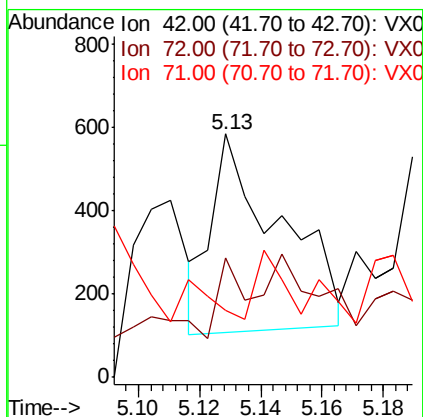
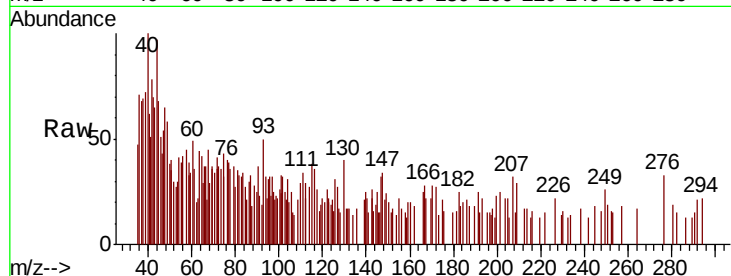
Tgt Ion: 42 Resp: 735

Ion Ratio Lower Upper

42 100

72 47.2 37.6 56.4

71 16.5 34.6 51.8#



#33

1,2-Dichloroethane-d4

Concen: 51.136 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX011777.D

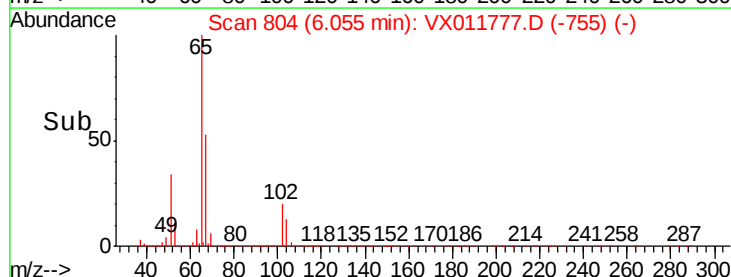
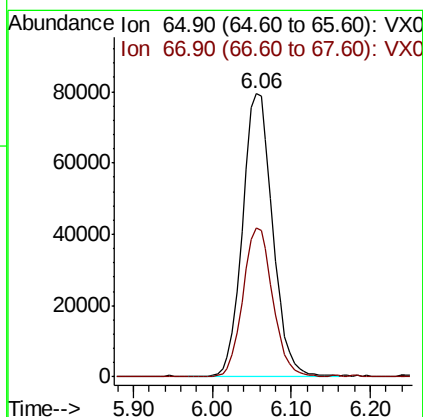
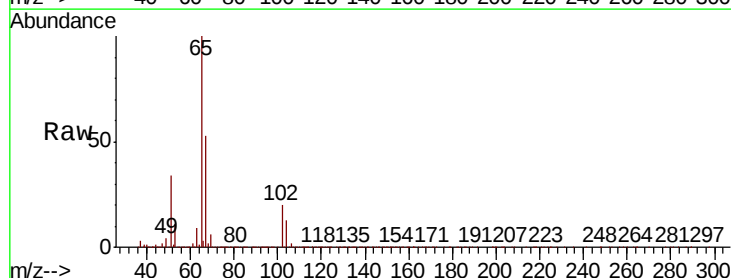
Acq: 22 Aug 2019 21:13

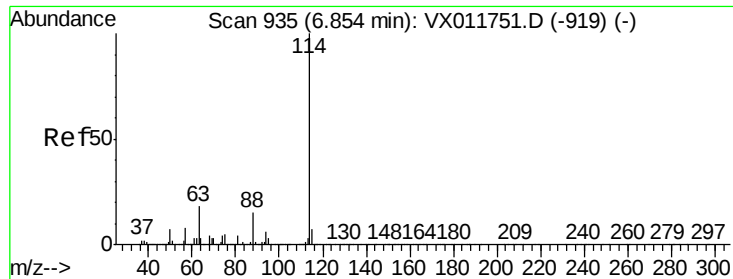
Tgt Ion: 65 Resp: 210843

Ion Ratio Lower Upper

65 100

67 51.6 0.0 107.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.00 min

Lab File: VX011777.D

Acq: 22 Aug 2019 21:13

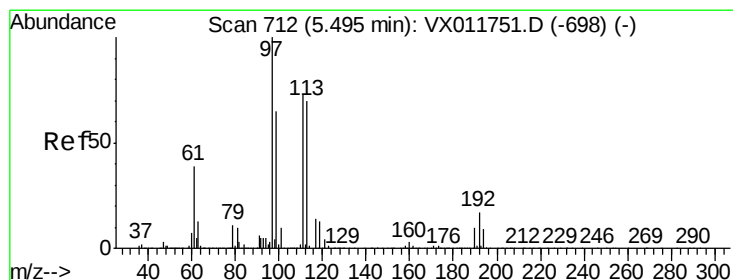
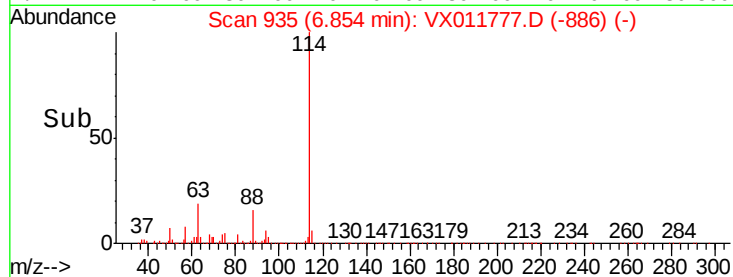
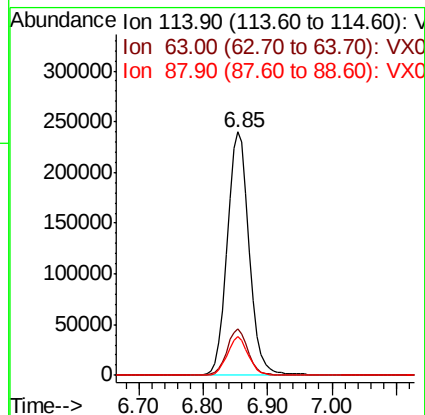
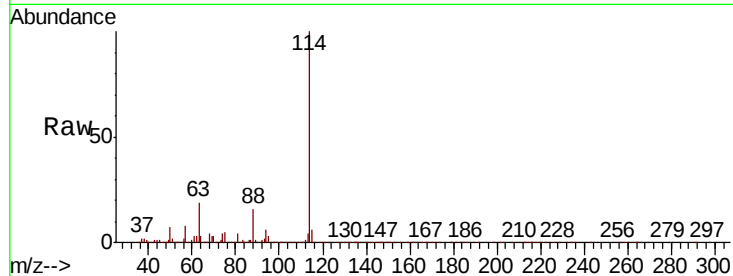
Instrument :

MSVOA\_X

ClientSampleId :

T1-H3-(0)

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 114   | Resp: | 575037 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 19.0  | 0.0   | 36.8   |
| 88       | 15.6  | 0.0   | 30.2   |



#35

Dibromofluoromethane

Concen: 47.380 ug/l

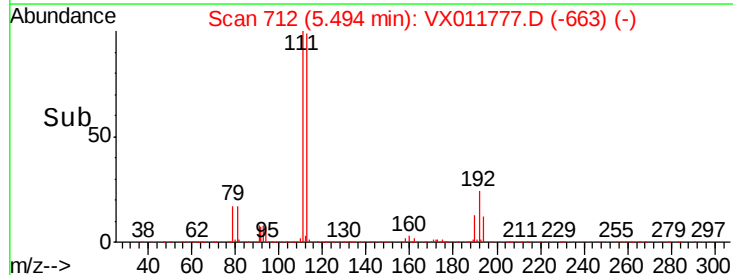
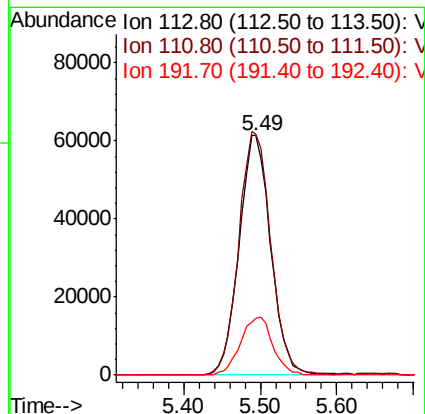
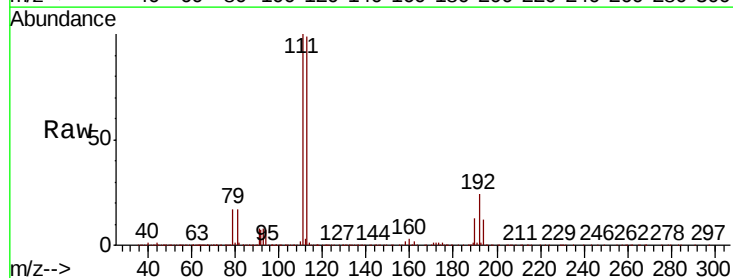
RT: 5.49 min Scan# 712

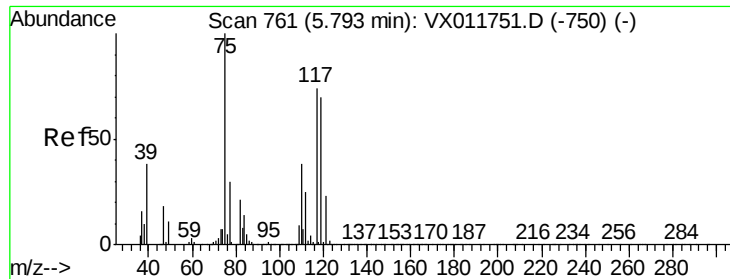
Delta R.T. -0.00 min

Lab File: VX011777.D

Acq: 22 Aug 2019 21:13

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 113   | Resp: | 176177 |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 111      | 102.1 | 81.0  | 121.4  |
| 192      | 24.8  | 19.9  | 29.9   |





#36

1,1-Dichloropropene

Concen: 5.365 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011777.D

Acq: 22 Aug 2019 21:13

Instrument :

MSVOA\_X

ClientSampleId :

T1-H3-(0)

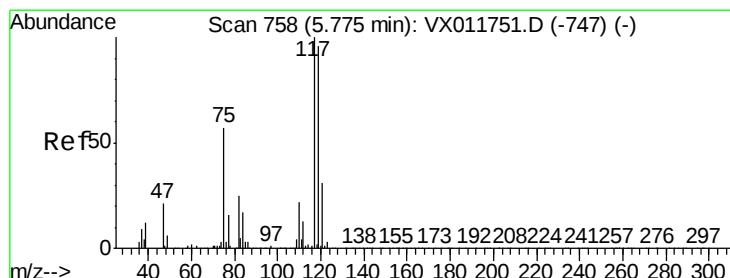
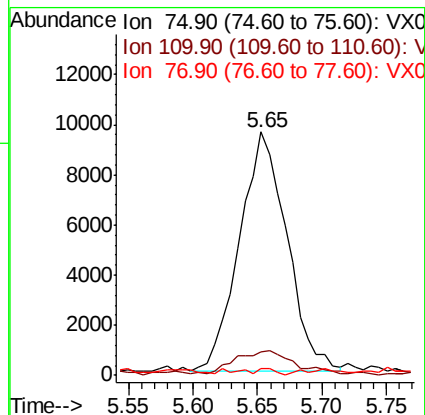
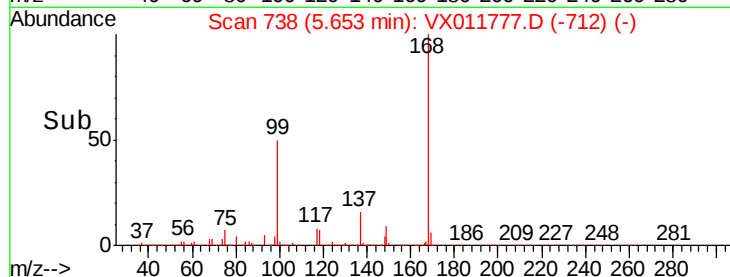
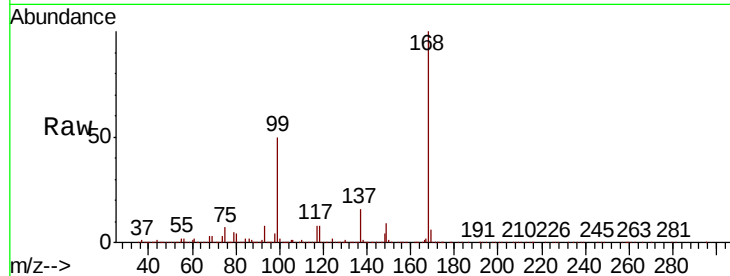
Tgt Ion: 75 Resp: 24192

Ion Ratio Lower Upper

75 100

110 13.9 19.0 57.0#

77 1.0 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 7.123 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX011777.D

Acq: 22 Aug 2019 21:13

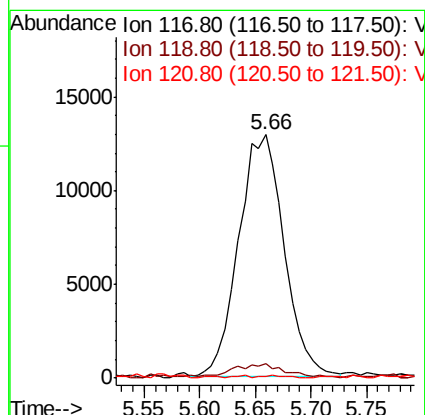
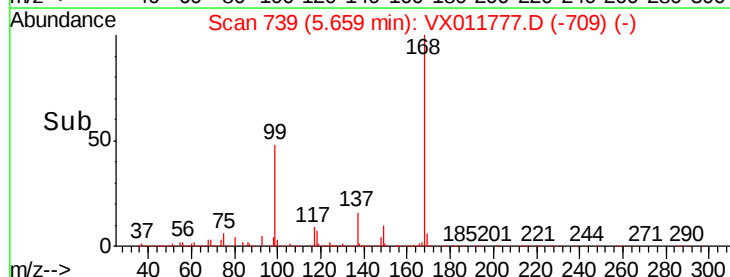
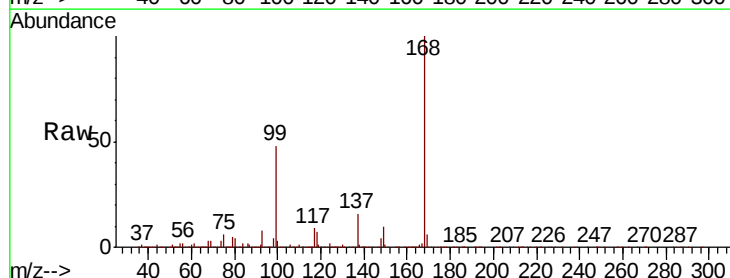
Tgt Ion: 117 Resp: 36403

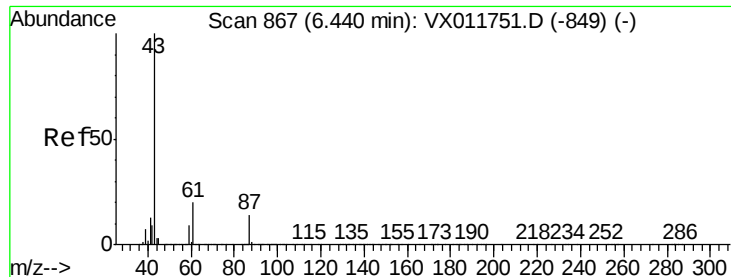
Ion Ratio Lower Upper

117 100

119 5.9 76.6 114.8#

121 0.6 25.2 37.8#





#43

Isopropyl Acetate

Concen: 7.774 ug/l

RT: 6.44 min Scan# 867

Delta R.T. -0.00 min

Lab File: VX011777.D

Acq: 22 Aug 2019 21:13

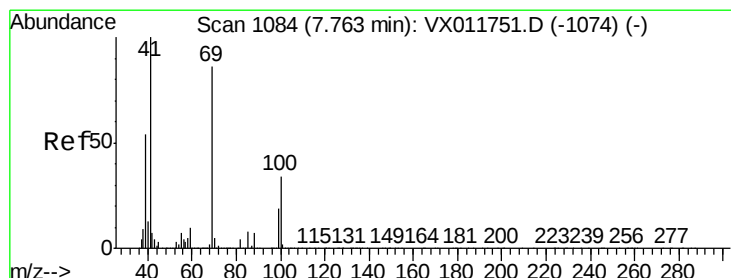
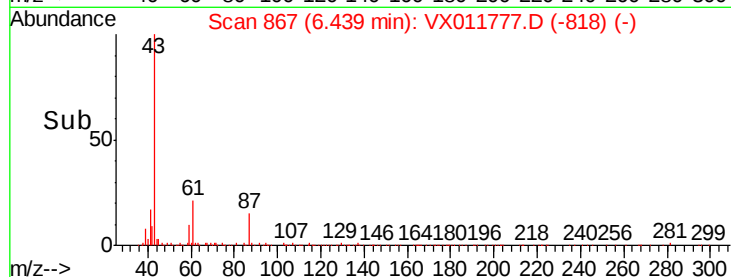
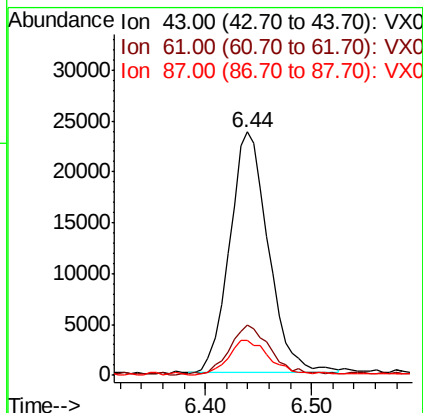
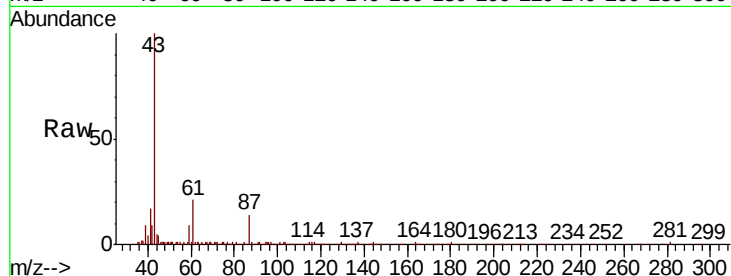
Instrument :

MSVOA\_X

ClientSampleId :

T1-H3-(0)

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 60045 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 22.5  | 16.2  | 24.2  |
| 87       | 14.8  | 11.6  | 17.4  |



#48

Methyl methacrylate

Concen: 1.015 ug/l

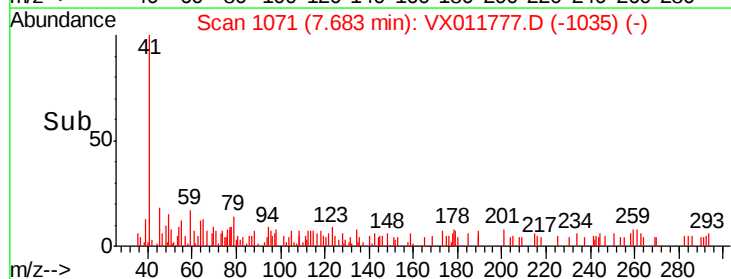
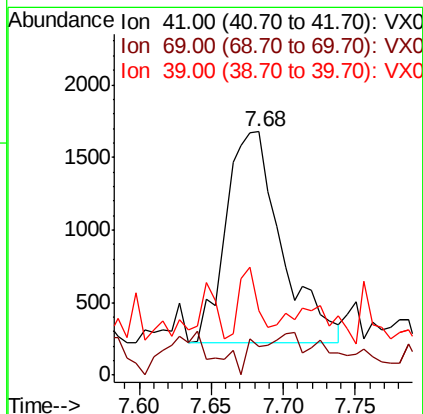
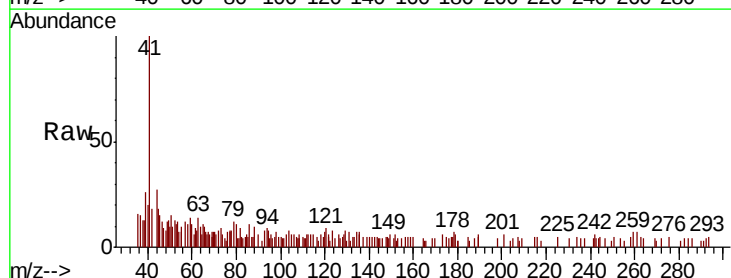
RT: 7.68 min Scan# 1071

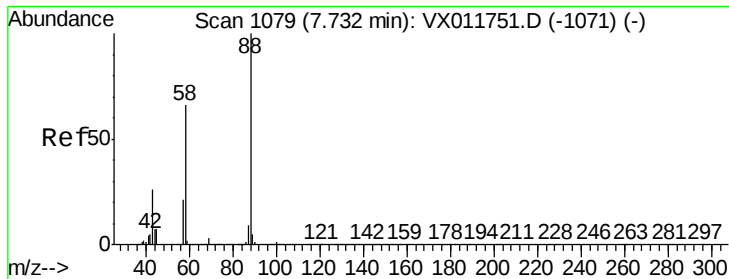
Delta R.T. -0.08 min

Lab File: VX011777.D

Acq: 22 Aug 2019 21:13

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 3903   |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 69       | 0.0   | 69.4  | 104.2# |
| 39       | 0.0   | 43.6  | 65.4#  |

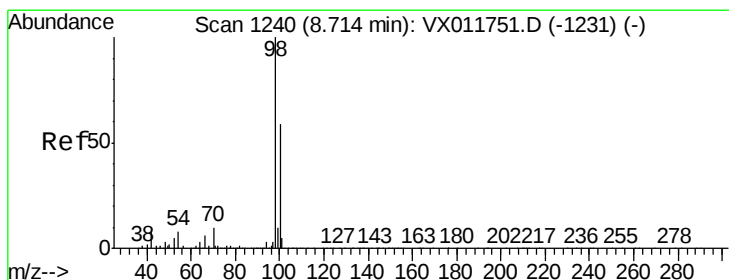
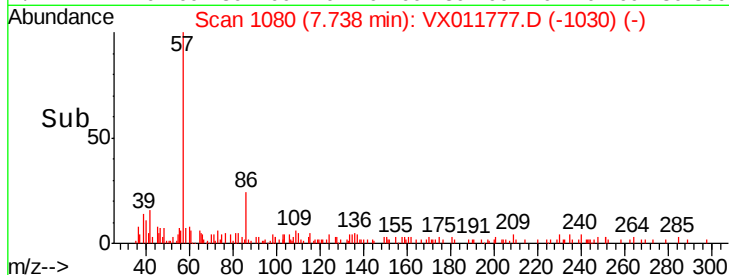
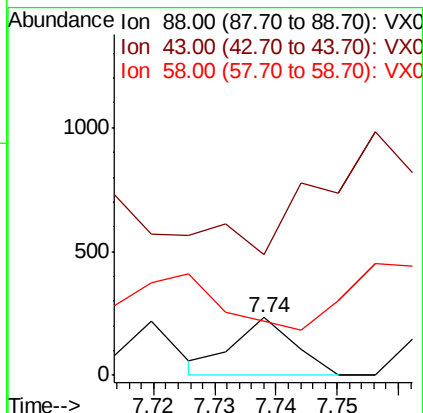
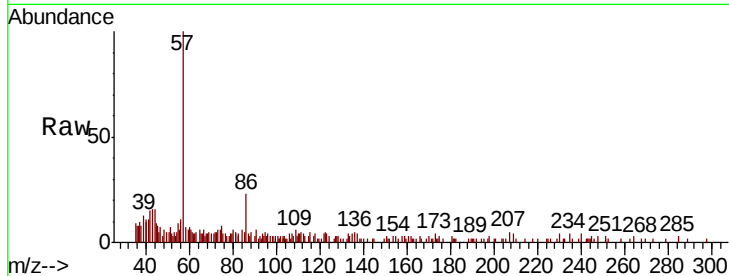




#49  
1,4-Dioxane  
Concen: 1.493 ug/l  
RT: 7.74 min Scan# 1080  
Delta R.T. 0.01 min  
Lab File: VX011777.D  
Acq: 22 Aug 2019 21:13

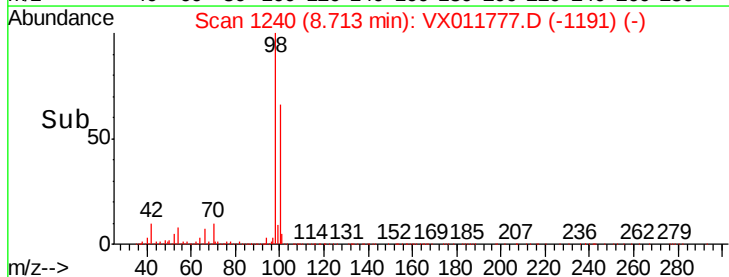
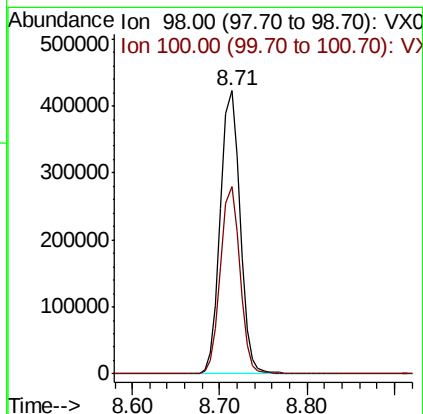
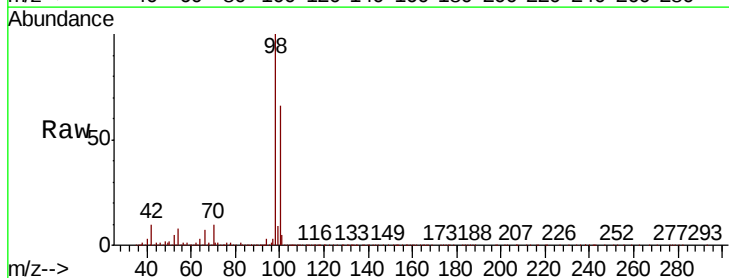
Instrument :  
MSVOA\_X  
ClientSampled :  
T1-H3-(0)

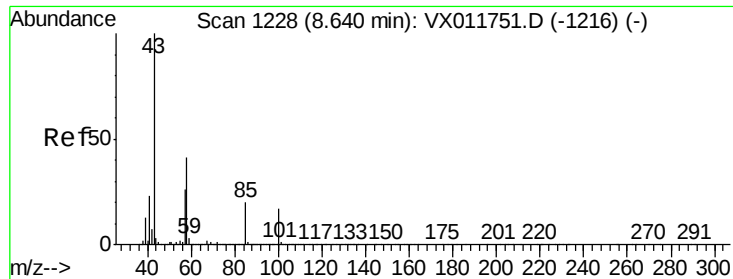
Tgt Ion: 88 Resp: 159  
Ion Ratio Lower Upper  
88 100  
43 0.0 24.6 37.0#  
58 340.9 51.4 77.2#



#50  
Toluene-d8  
Concen: 51.034 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. -0.00 min  
Lab File: VX011777.D  
Acq: 22 Aug 2019 21:13

Tgt Ion: 98 Resp: 661902  
Ion Ratio Lower Upper  
98 100  
100 65.1 52.1 78.1

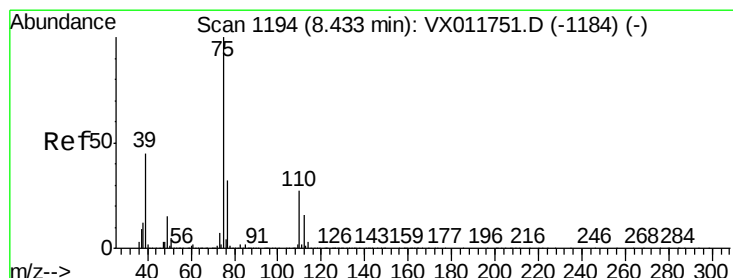
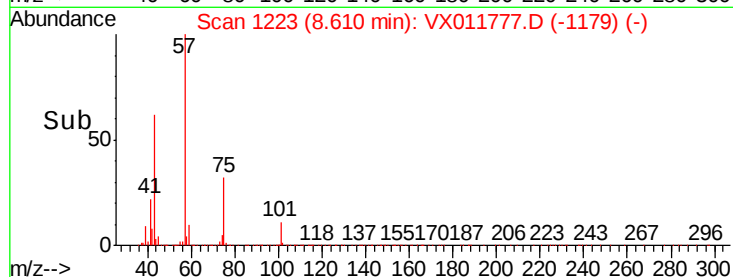
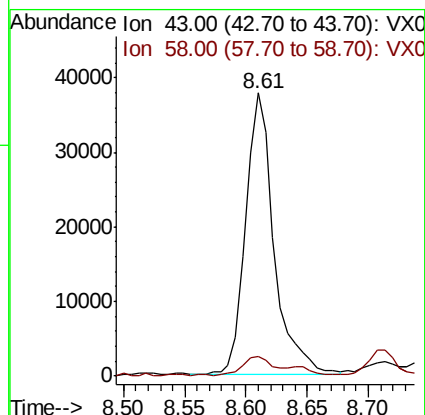
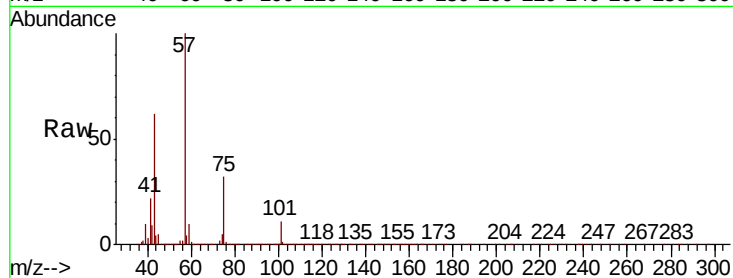




#51  
 4-Methyl-2-Pentanone  
 Concen: 12.067 ug/l  
 RT: 8.61 min Scan# 1223  
 Delta R.T. -0.03 min  
 Lab File: VX011777.D  
 Acq: 22 Aug 2019 21:13

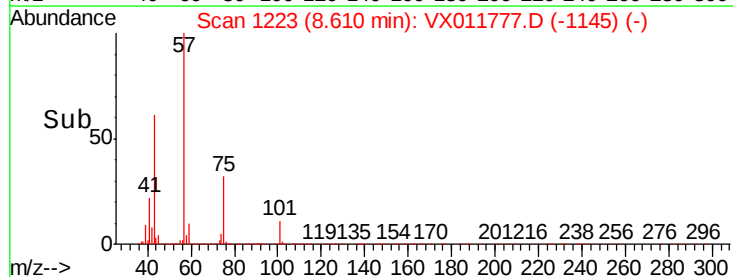
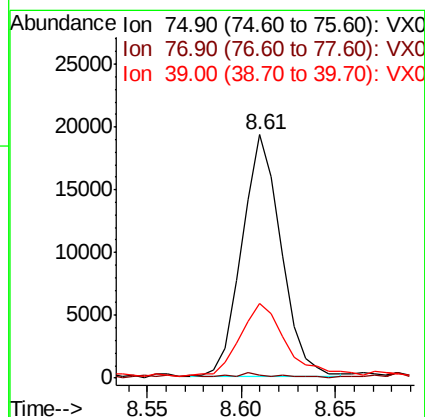
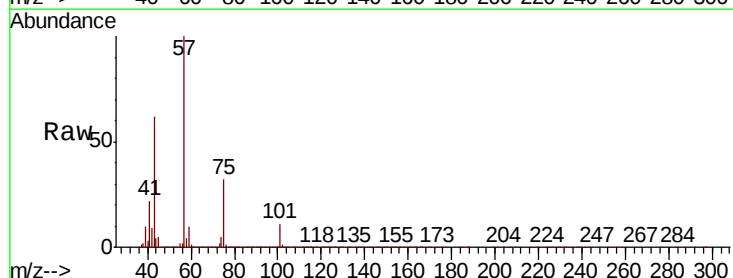
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T1-H3-(0)

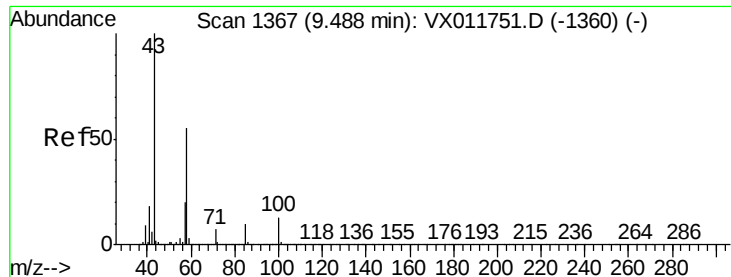
Tgt Ion: 43 Resp: 61412  
 Ion Ratio Lower Upper  
 43 100  
 58 6.5 31.8 47.6#



#54  
 cis-1,3-Dichloropropene  
 Concen: 5.215 ug/l  
 RT: 8.61 min Scan# 1223  
 Delta R.T. 0.18 min  
 Lab File: VX011777.D  
 Acq: 22 Aug 2019 21:13

Tgt Ion: 75 Resp: 27793  
 Ion Ratio Lower Upper  
 75 100  
 77 0.5 25.4 38.2#  
 39 30.0 36.2 54.4#

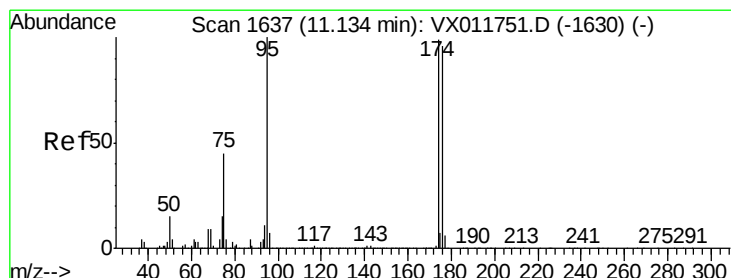
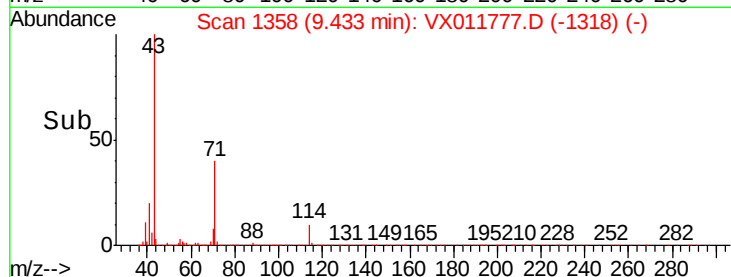
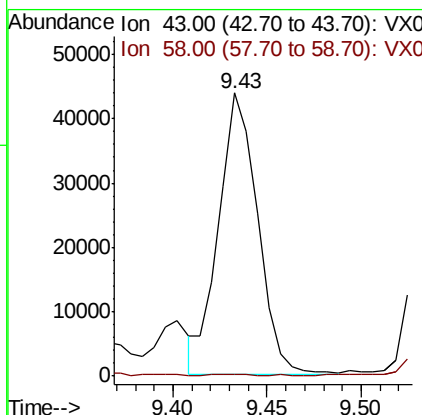
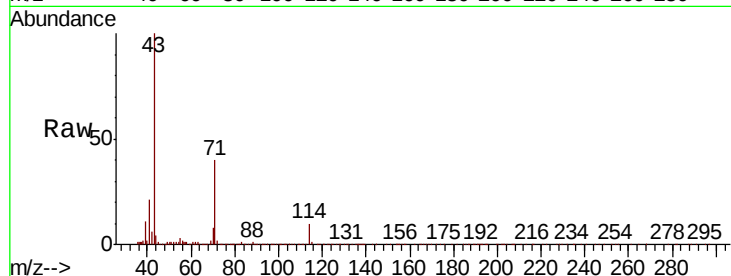




#59  
2-Hexanone  
Concen: 16.095 ug/l  
RT: 9.43 min Scan# 1358  
Delta R.T. -0.06 min  
Lab File: VX011777.D  
Acq: 22 Aug 2019 21:13

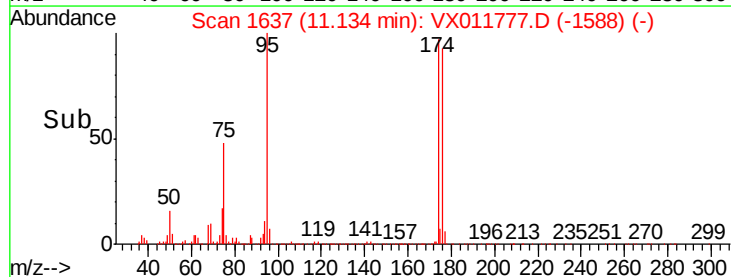
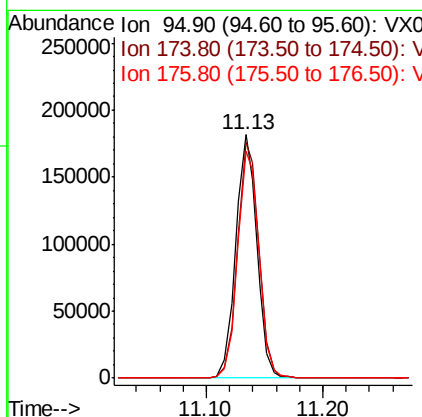
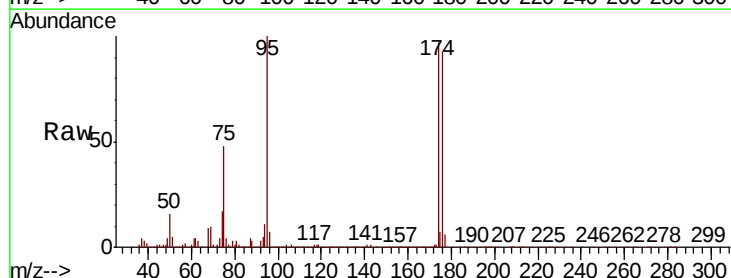
Instrument :  
MSVOA\_X  
ClientSampleId :  
T1-H3-(0)

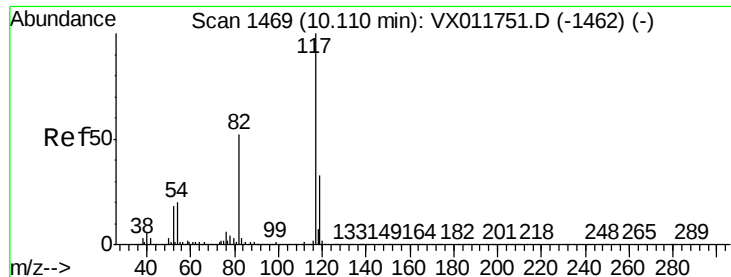
Tgt Ion: 43 Resp: 62871  
Ion Ratio Lower Upper  
43 100  
58 0.7 27.7 83.1#



#62  
4-Bromofluorobenzene  
Concen: 44.744 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. -0.00 min  
Lab File: VX011777.D  
Acq: 22 Aug 2019 21:13

Tgt Ion: 95 Resp: 229382  
Ion Ratio Lower Upper  
95 100  
174 98.1 0.0 197.4  
176 94.3 0.0 194.4

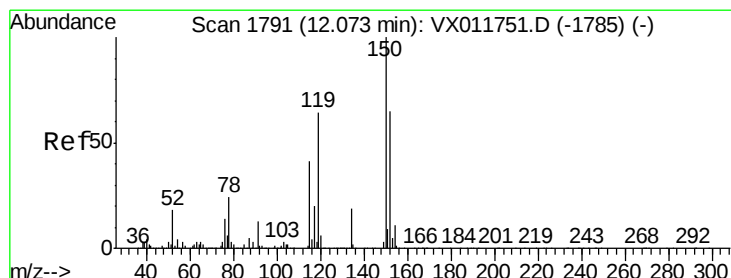
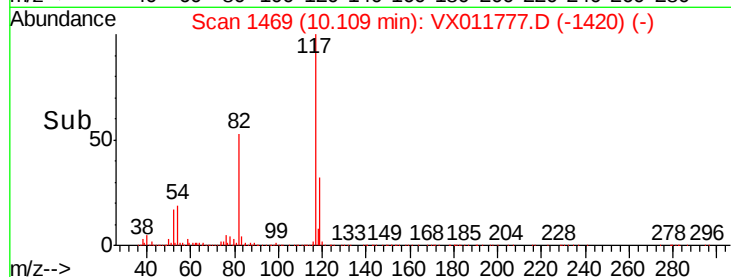
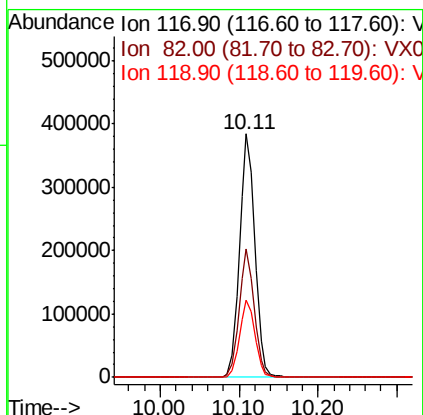
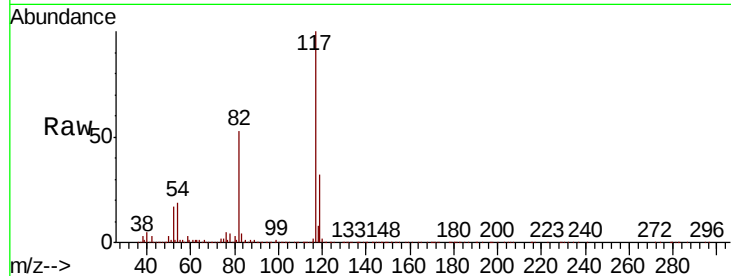




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VX011777.D  
Acq: 22 Aug 2019 21:13

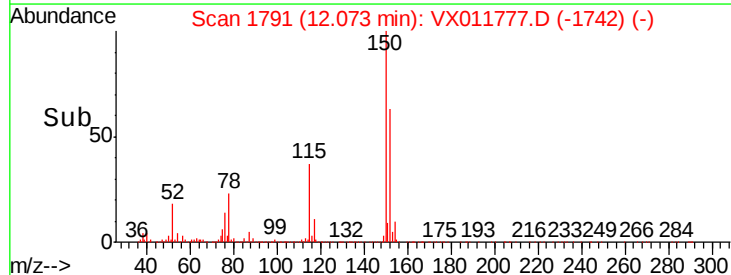
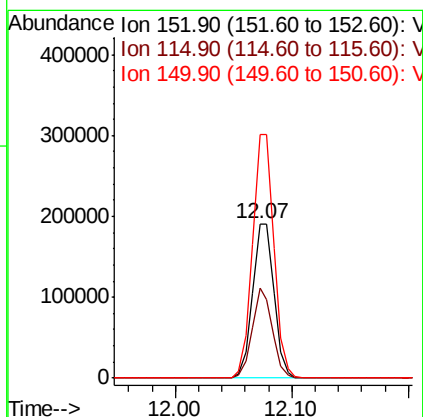
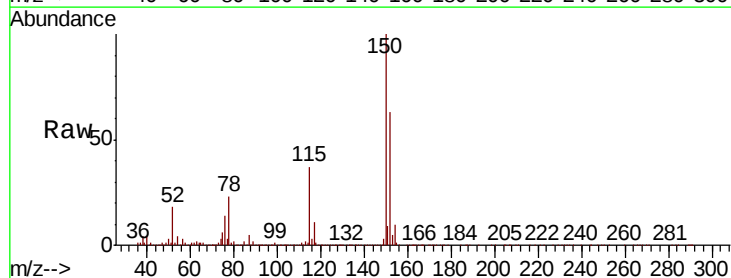
Instrument :  
MSVOA\_X  
ClientSampled :  
T1-H3-(0)

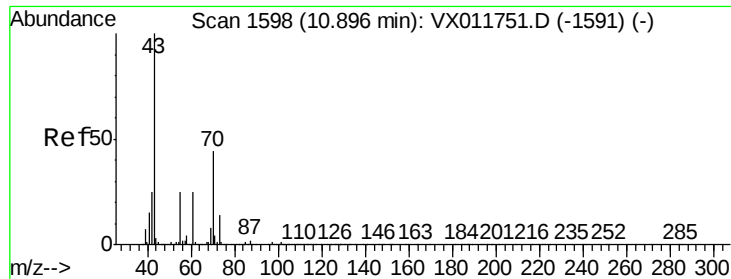
| Tgt Ion | Resp   | Lower | Upper |
|---------|--------|-------|-------|
| 117     | 519745 |       |       |
| 82      | 52.7   | 41.7  | 62.5  |
| 119     | 31.8   | 26.2  | 39.2  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1791  
Delta R.T. -0.00 min  
Lab File: VX011777.D  
Acq: 22 Aug 2019 21:13

| Tgt Ion | Resp   | Lower | Upper |
|---------|--------|-------|-------|
| 152     | 246570 |       |       |
| 115     | 54.6   | 37.3  | 111.8 |
| 150     | 156.7  | 0.0   | 343.0 |

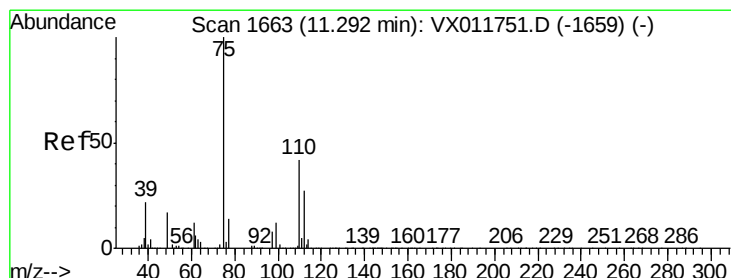
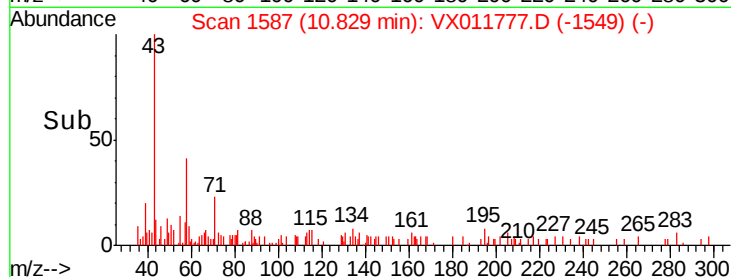
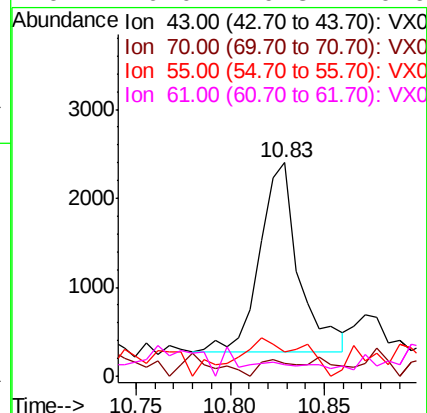
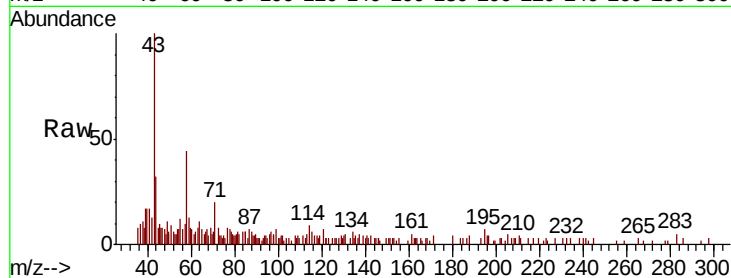




#74  
N-ethyl acetate  
Concen: 0.528 ug/l  
RT: 10.83 min Scan# 1587  
Delta R.T. -0.07 min  
Lab File: VX011777.D  
Acq: 22 Aug 2019 21:13

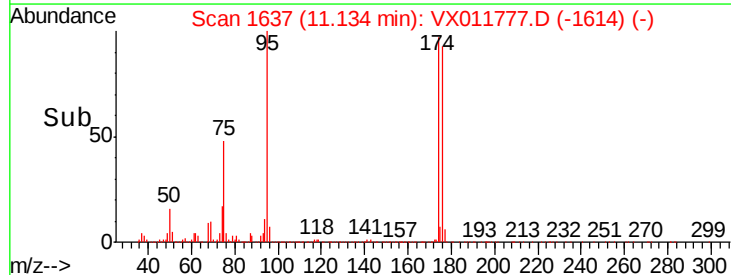
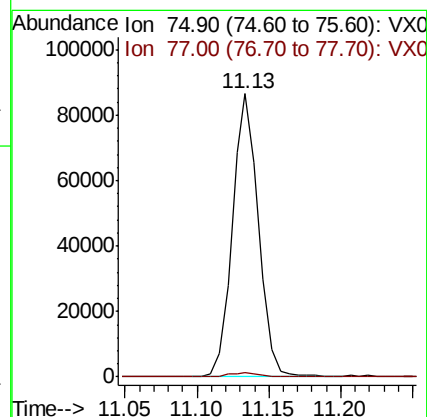
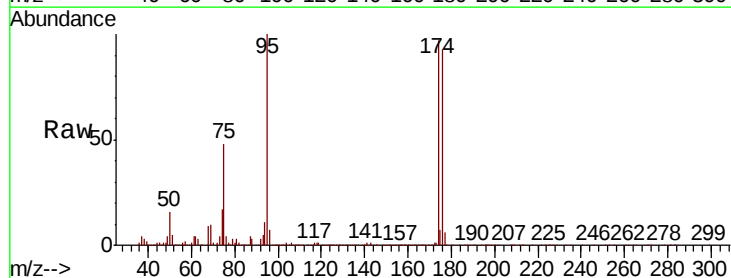
Instrument :  
MSVOA\_X  
ClientSampleId :  
T1-H3-(0)

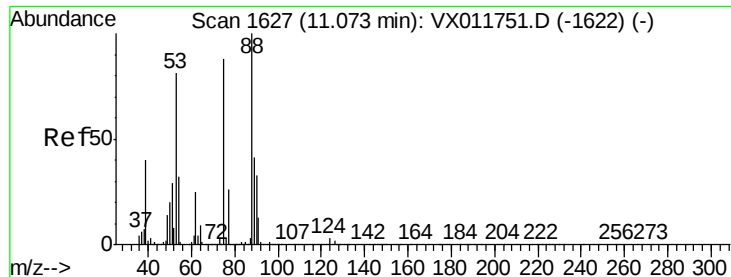
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 70      | 9.0   | 34.8  | 52.2# |
| 55      | 35.0  | 19.5  | 29.3# |
| 61      | 0.0   | 19.8  | 29.6# |



#76  
1,2,3-Trichloropropane  
Concen: 25.203 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. -0.16 min  
Lab File: VX011777.D  
Acq: 22 Aug 2019 21:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.5   | 21.1  | 63.3# |





#81

trans-1,4-Dichloro-2-butene

Concen: 76.006 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011777.D

Acq: 22 Aug 2019 21:13

Instrument :

MSVOA\_X

ClientSampleId :

T1-H3-(0)

Tgt Ion: 75 Resp: 109040

Ion Ratio Lower Upper

75 100

53 0.4 77.1 115.7#

89 0.0 38.5 57.7#

