

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\WX011020\  
 Data File : VX014539.D  
 Acq On : 10 Jan 2020 15:58  
 Operator : JC/SP  
 Sample : L1092-04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 STORAGE-BLANK-SAMPLE-MANA

Quant Time: Jan 10 16:42:08 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010720W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 07 15:54:41 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 479960   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 738591   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 664077   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 295848   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 6.05   | 65  | 265456   | 49.54 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.08%  |      |
| 35) Dibromofluoromethane    | 5.49   | 113 | 219921   | 49.19 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.38%  |      |
| 50) Toluene-d8              | 8.71   | 98  | 871119   | 50.21 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.42% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 293619   | 46.10 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 92.20%  |      |

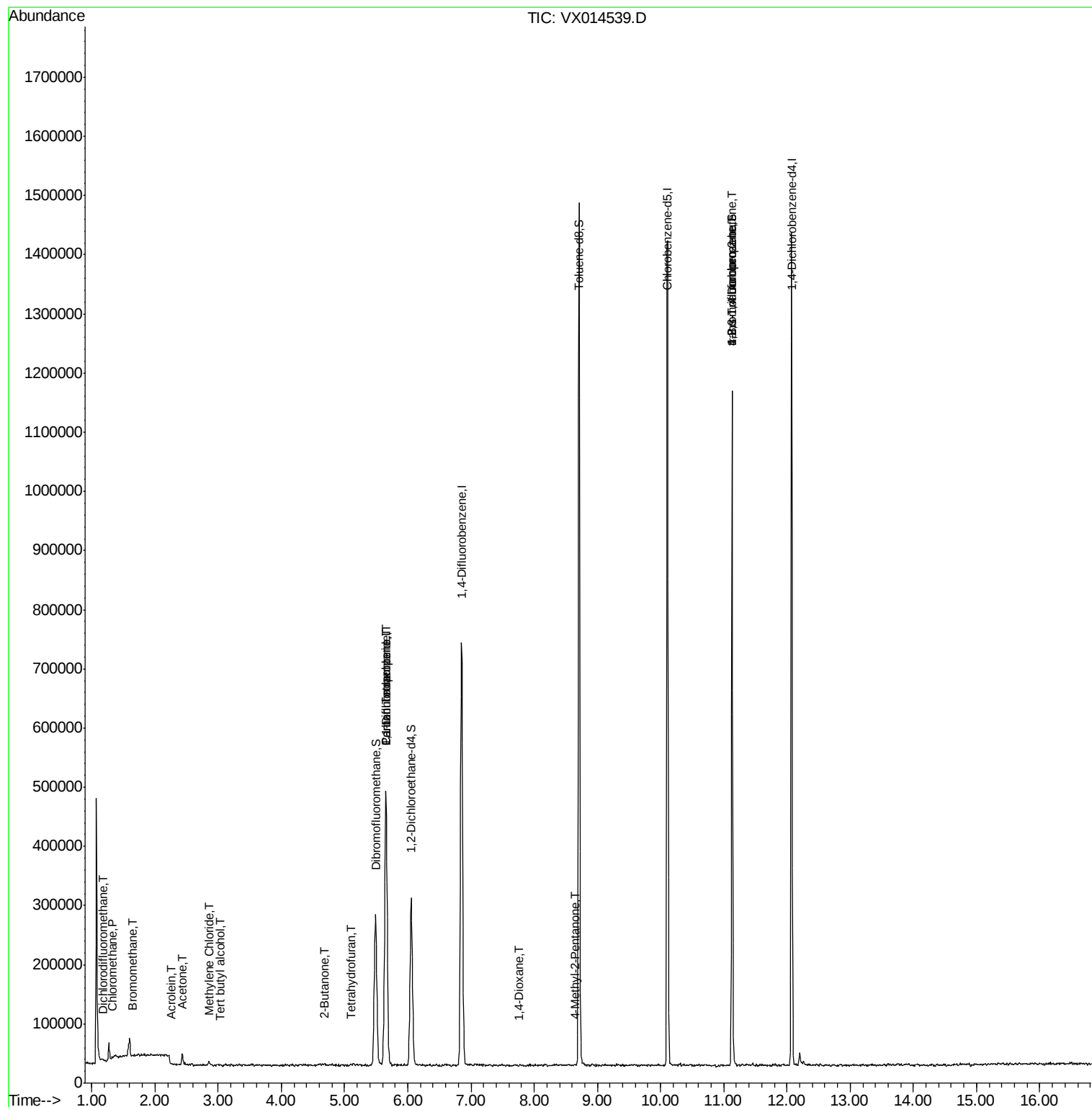
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.17  | 85   | 439      | 0.326     | ug/l # | 42     |
| 3) Chloromethane               | 1.32  | 50   | 1640     | 0.268     | ug/l   | 90     |
| 5) Bromomethane                | 1.65  | 94   | 967      | 0.214     | ug/l   | 93     |
| 6) Chloroethane                | 1.67  | 64   | 1071     | Below Cal | #      | 69     |
| 11) Tert butyl alcohol         | 3.03  | 59   | 236      | 0.211     | ug/l # | 72     |
| 13) Acrolein                   | 2.26  | 56   | 338      | 0.377     | ug/l # | 15     |
| 16) Acetone                    | 2.43  | 43   | 19987    | 3.317     | ug/l   | 96     |
| 20) Methylene Chloride         | 2.85  | 84   | 2829     | 0.525     | ug/l # | 84     |
| 25) 2-Butanone                 | 4.68  | 43   | 5823     | 1.455     | ug/l # | 82     |
| 29) Tetrahydrofuran            | 5.10  | 42   | 552      | 0.233     | ug/l # | 32     |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 32208    | 4.637     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 42518    | 6.652     | ug/l # | 16     |
| 49) 1,4-Dioxane                | 7.75  | 88   | 631      | 5.102     | ug/l # | 11     |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 2055     | 0.277     | ug/l   | 89     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 142925   | 23.349    | ug/l # | 34     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 142925   | 61.731    | ug/l # | 12     |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 345      | Below Cal | #      | 25     |
| 93) 1,2,4-Trichlorobenzene     | 13.45 | 180  | 250      | Below Cal |        | 84     |
| 96) 1,2,3-Trichlorobenzene     | 14.02 | 180  | 361      | Below Cal |        | 77     |

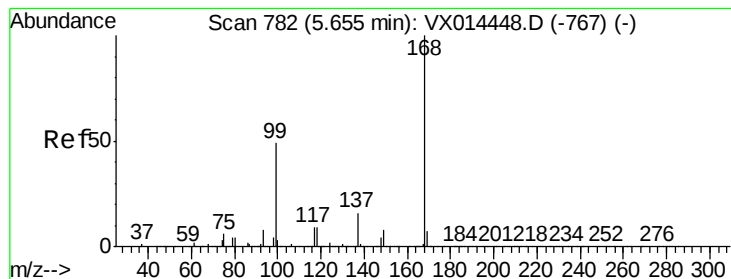
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jan 07 15:54:41 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX014539.D

Acq: 10 Jan 2020 15:58

Instrument :

MSVOA\_X

ClientSampleId :

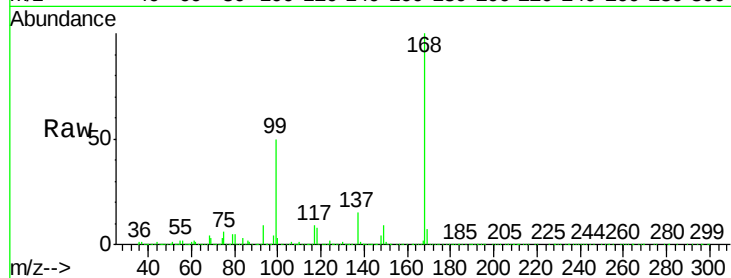
STORAGE-BLANK-SAMPLE-MANA

Tgt Ion:168 Resp: 479960

Ion Ratio Lower Upper

168 100

99 49.5 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

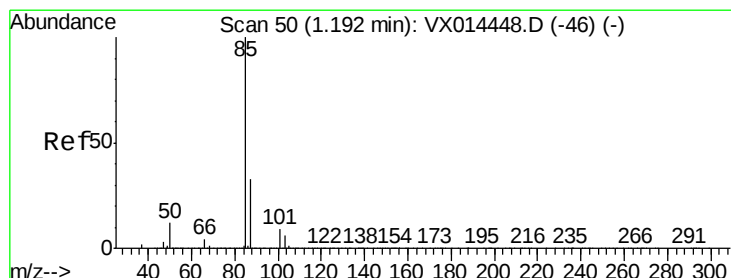
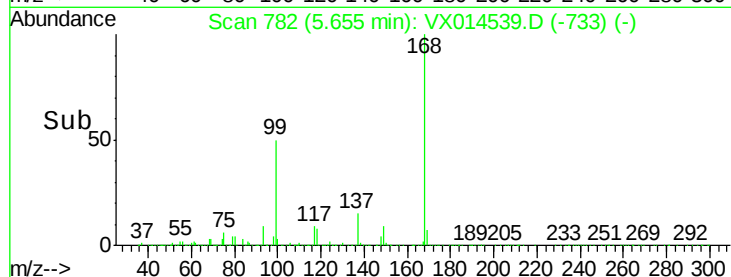
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.326 ug/l

RT: 1.17 min Scan# 47

Delta R.T. -0.02 min

Lab File: VX014539.D

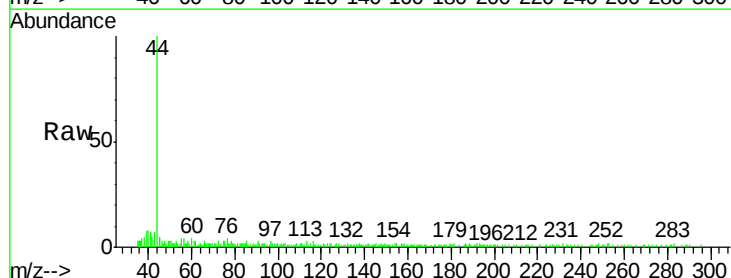
Acq: 10 Jan 2020 15:58

Tgt Ion: 85 Resp: 439

Ion Ratio Lower Upper

85 100

87 0.0 16.5 49.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

600

500

400

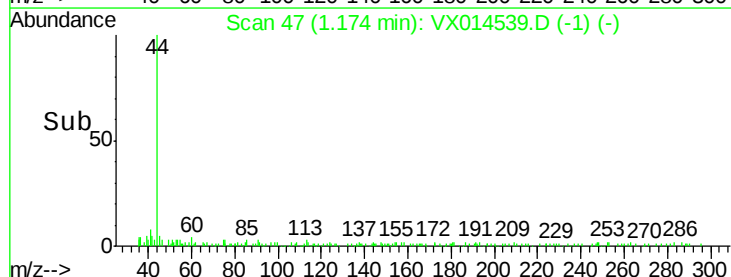
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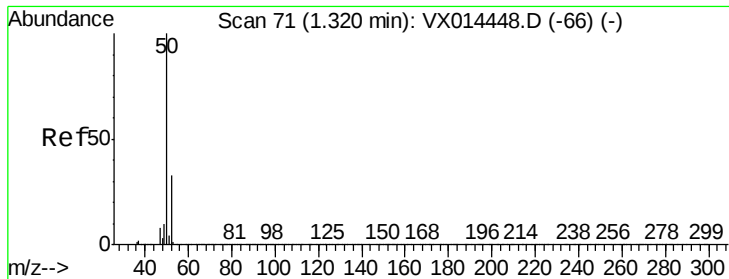
200

100

0

Time-->





#3

Chloromethane

Concen: 0.268 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014539.D

Acq: 10 Jan 2020 15:58

Instrument :

MSVOA\_X

ClientSampleId :

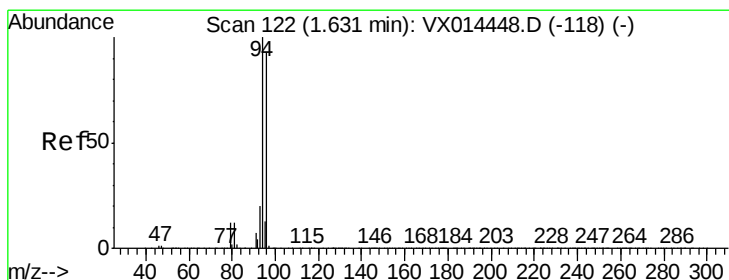
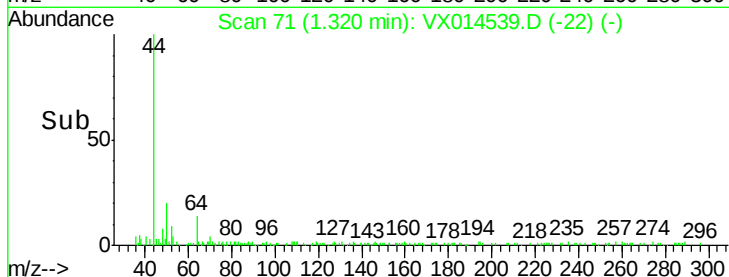
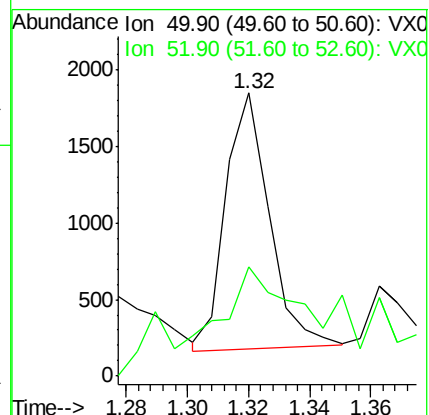
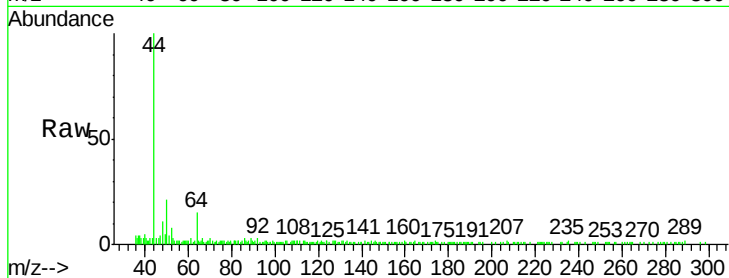
STORAGE-BLANK-SAMPLE-MANA

Tgt Ion: 50 Resp: 1640

Ion Ratio Lower Upper

50 100

52 27.2 26.1 39.1



#5

Bromomethane

Concen: 0.214 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX014539.D

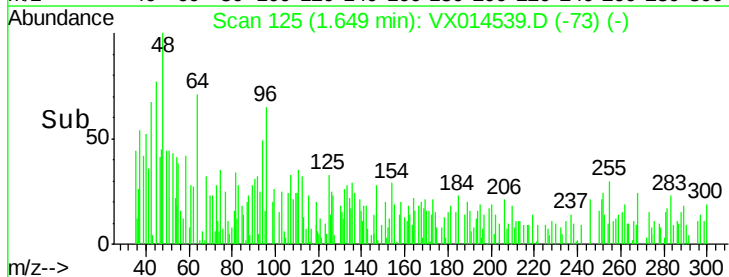
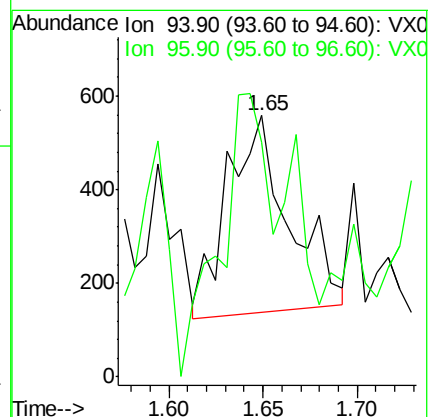
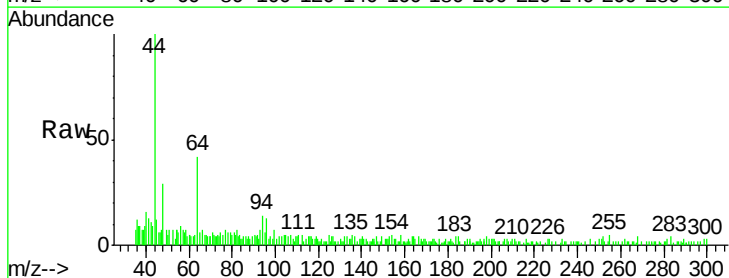
Acq: 10 Jan 2020 15:58

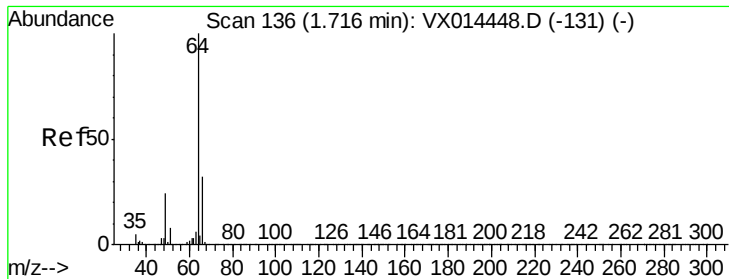
Tgt Ion: 94 Resp: 967

Ion Ratio Lower Upper

94 100

96 85.6 74.2 111.2





#6

Chloroethane

Concen: Below Cal

RT: 1.67 min Scan# 128

Delta R.T. -0.05 min

Lab File: VX014539.D

Acq: 10 Jan 2020 15:58

Instrument :

MSVOA\_X

ClientSampleId :

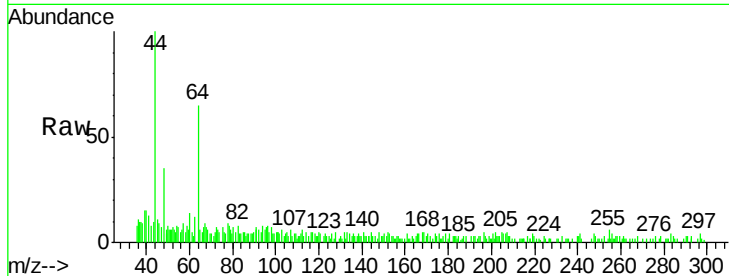
STORAGE-BLANK-SAMPLE-MANA

Tgt Ion: 64 Resp: 1071

Ion Ratio Lower Upper

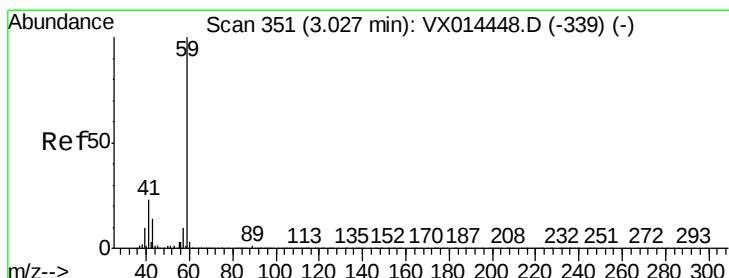
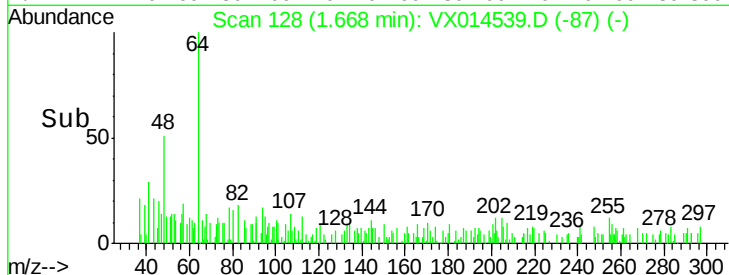
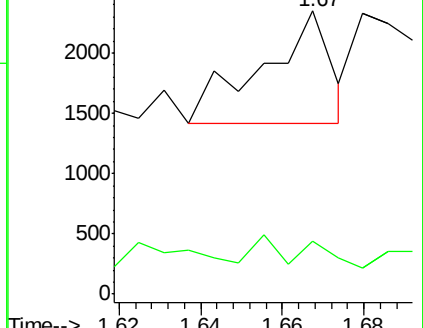
64 100

66 14.7 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 0.211 ug/l

RT: 3.03 min Scan# 352

Delta R.T. 0.01 min

Lab File: VX014539.D

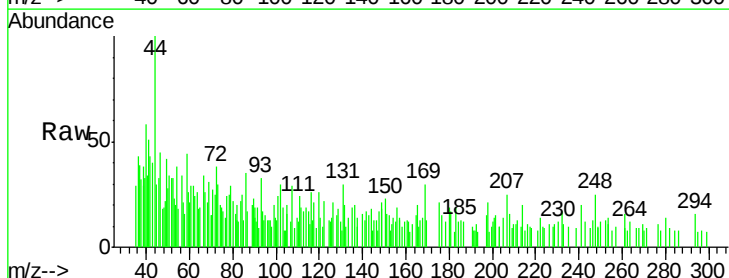
Acq: 10 Jan 2020 15:58

Tgt Ion: 59 Resp: 236

Ion Ratio Lower Upper

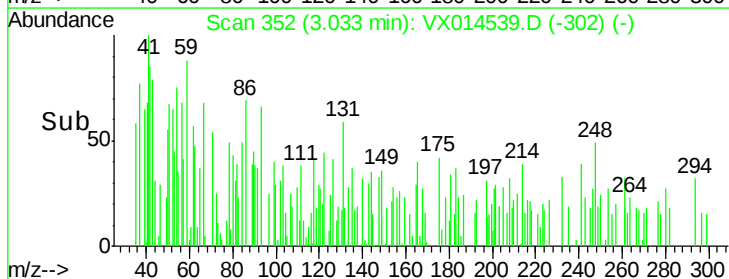
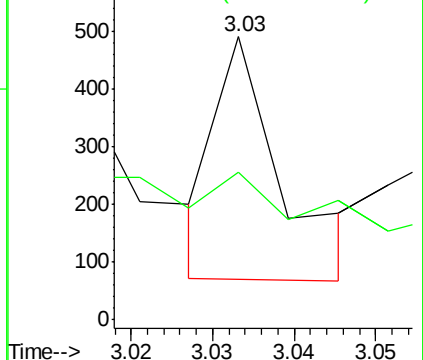
59 100

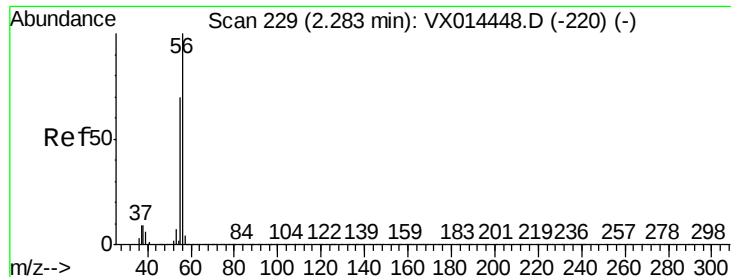
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.377 ug/l

RT: 2.26 min Scan# 225

Delta R.T. -0.02 min

Lab File: VX014539.D

Acq: 10 Jan 2020 15:58

Instrument :

MSVOA\_X

ClientSampleId :

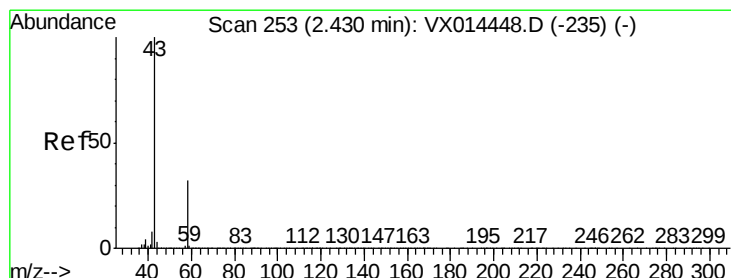
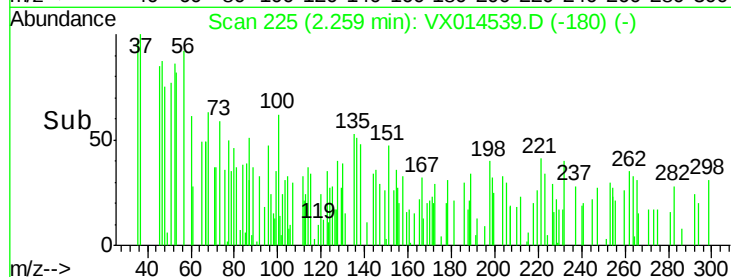
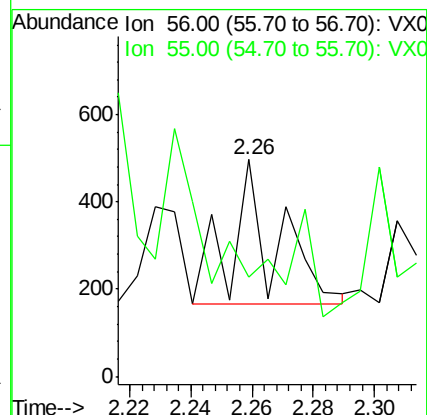
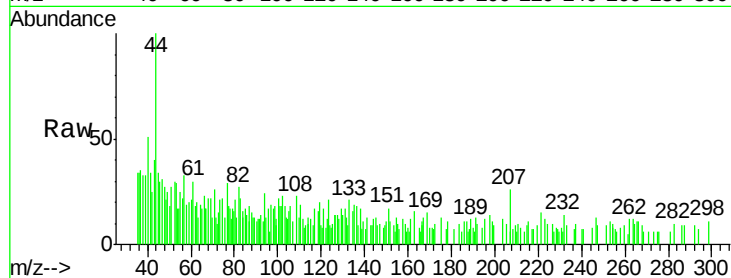
STORAGE-BLANK-SAMPLE-MANA

Tgt Ion: 56 Resp: 338

Ion Ratio Lower Upper

56 100

55 0.0 55.0 82.6#



#16

Acetone

Concen: 3.317 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014539.D

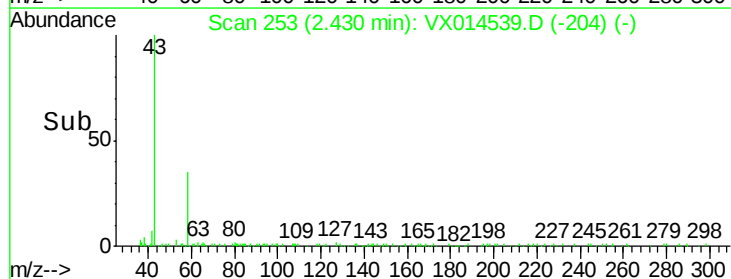
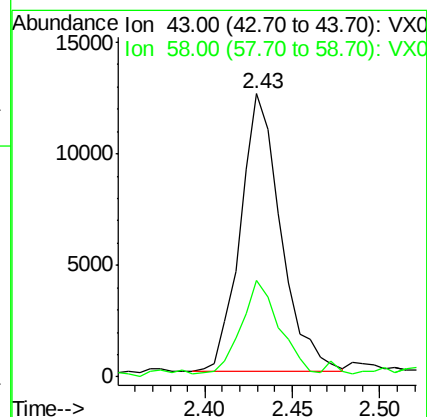
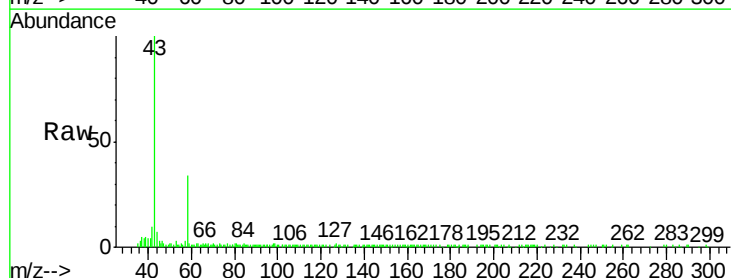
Acq: 10 Jan 2020 15:58

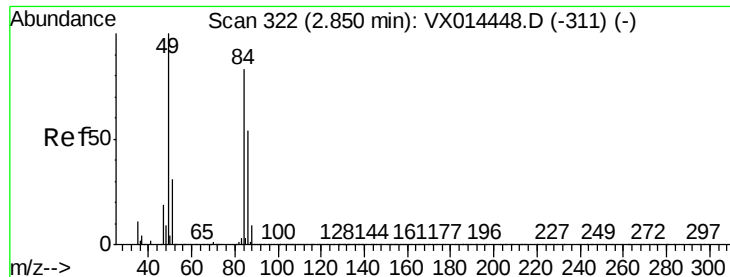
Tgt Ion: 43 Resp: 19987

Ion Ratio Lower Upper

43 100

58 33.8 25.4 38.0

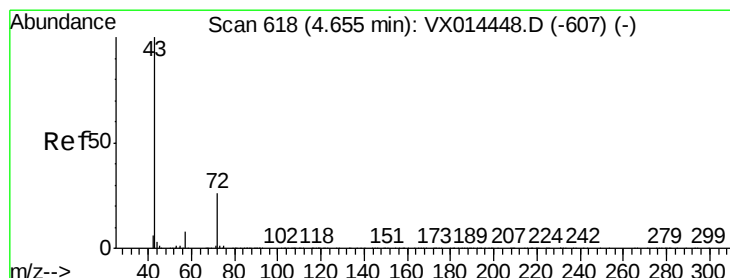
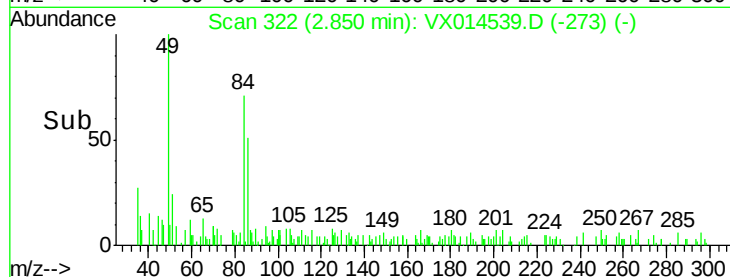
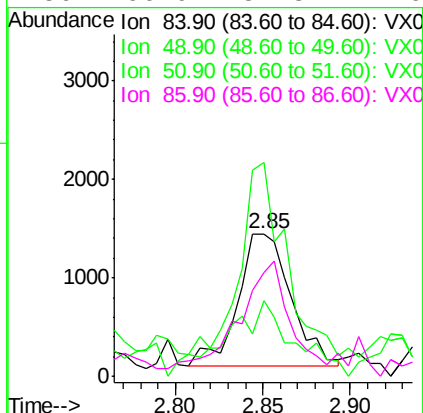
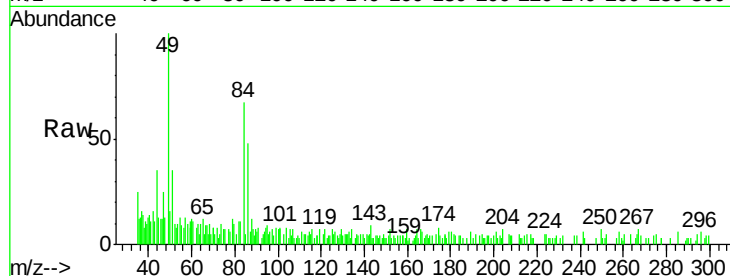




#20  
Methylene Chloride  
Concen: 0.525 ug/l  
RT: 2.85 min Scan# 322  
Delta R.T. 0.00 min  
Lab File: VX014539.D  
Acq: 10 Jan 2020 15:58

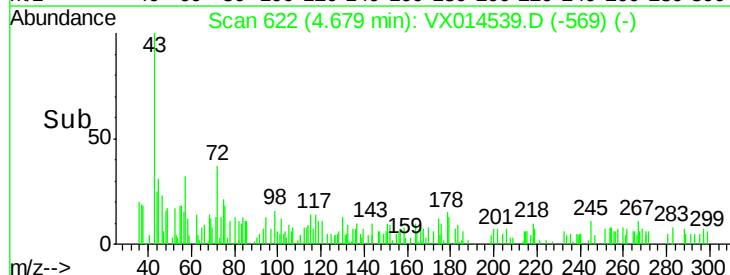
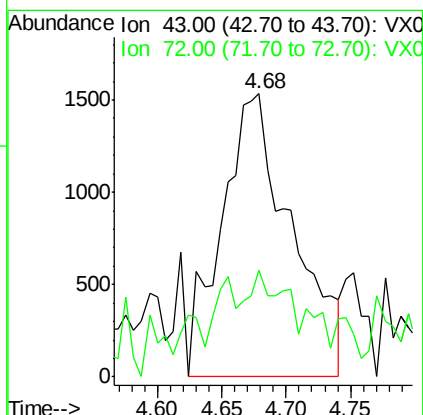
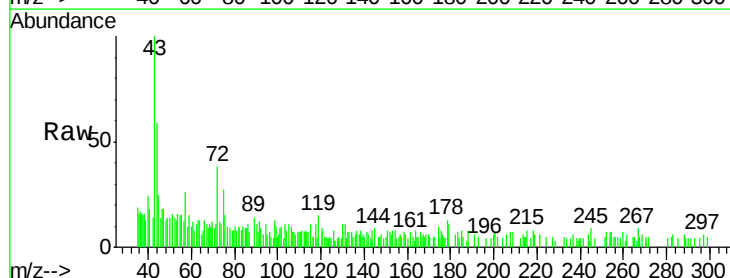
Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-SAMPLE-MANA

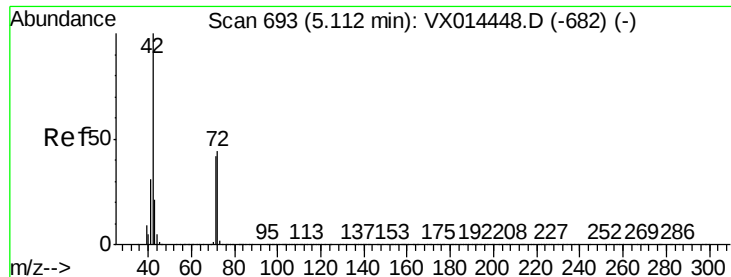
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|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 2829   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 146.6 | 95.8  | 143.8# |
| 51       | 45.7  | 30.2  | 45.4#  |
| 86       | 66.9  | 51.8  | 77.6   |



#25  
2-Butanone  
Concen: 1.455 ug/l  
RT: 4.68 min Scan# 622  
Delta R.T. 0.02 min  
Lab File: VX014539.D  
Acq: 10 Jan 2020 15:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 5823  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 16.8  | 20.6  | 31.0# |





#29

Tetrahydrofuran

Concen: 0.233 ug/l

RT: 5.10 min Scan# 691

Delta R.T. -0.01 min

Lab File: VX014539.D

Acq: 10 Jan 2020 15:58

Instrument :

MSVOA\_X

ClientSampleId :

STORAGE-BLANK-SAMPLE-MANA

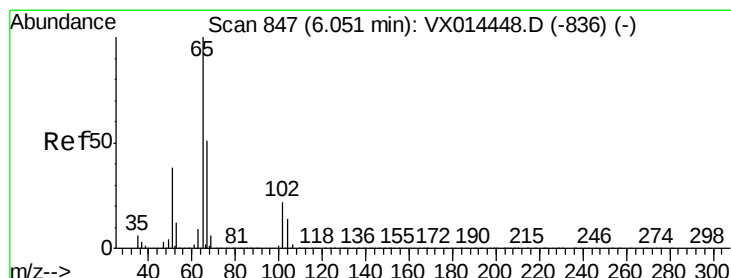
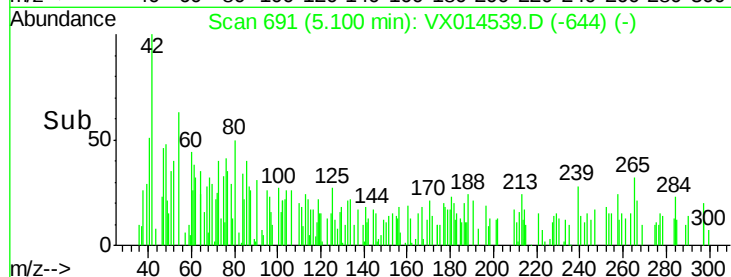
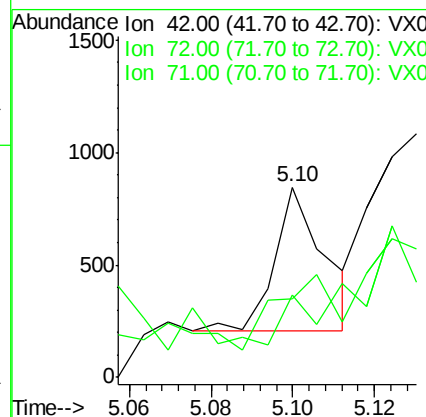
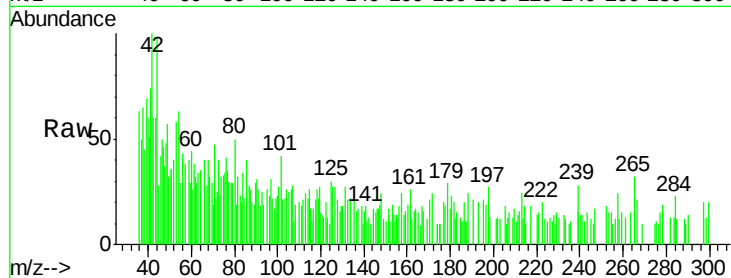
Tgt Ion: 42 Resp: 552

Ion Ratio Lower Upper

42 100

72 0.0 36.2 54.4#

71 0.0 34.1 51.1#



#33

1,2-Dichloroethane-d4

Concen: 49.544 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014539.D

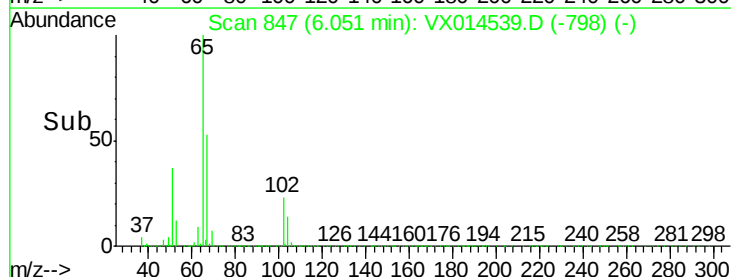
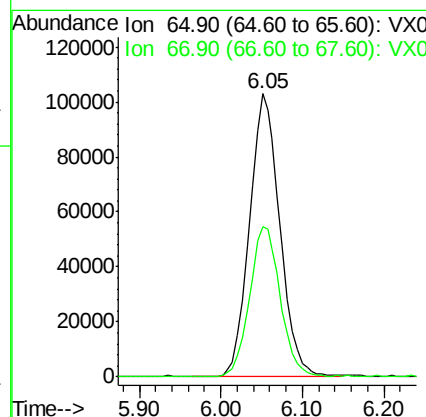
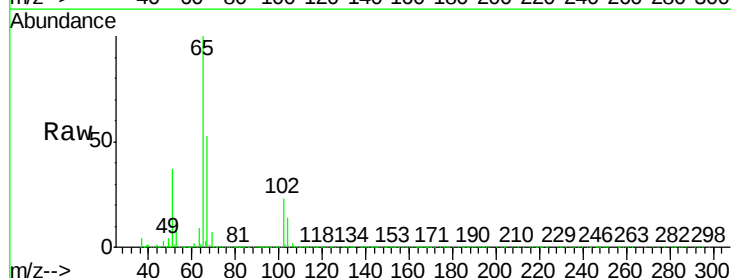
Acq: 10 Jan 2020 15:58

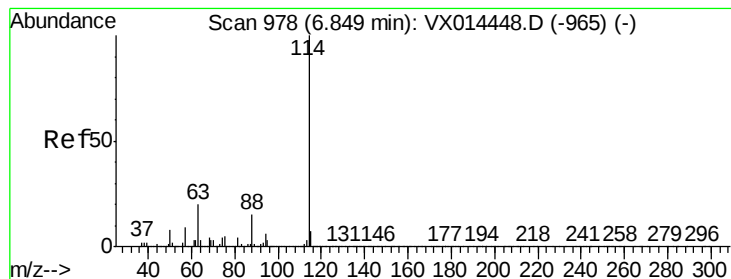
Tgt Ion: 65 Resp: 265456

Ion Ratio Lower Upper

65 100

67 53.2 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014539.D

Acq: 10 Jan 2020 15:58

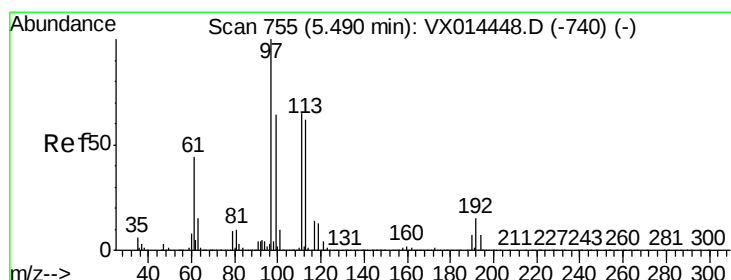
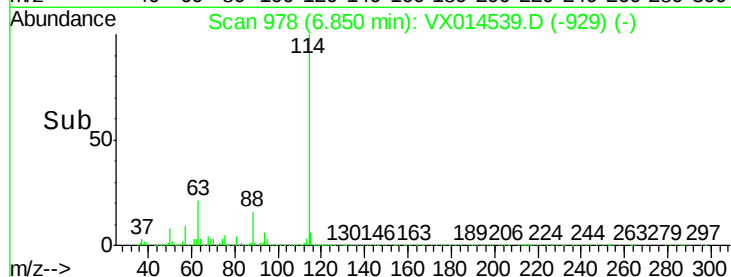
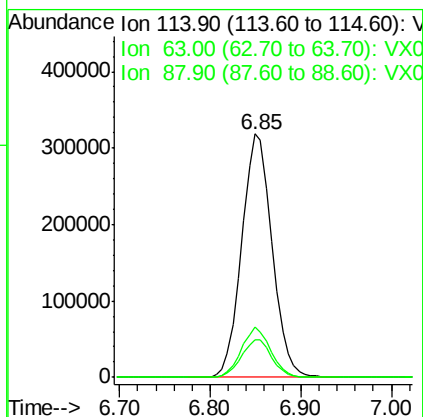
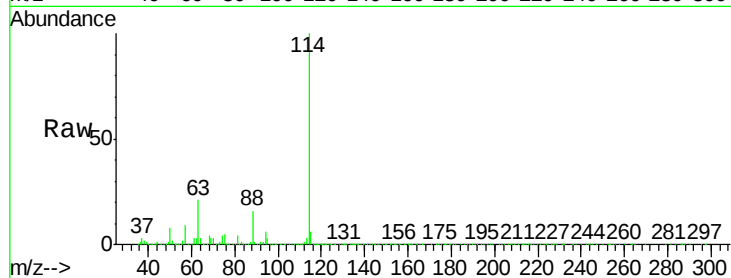
Instrument :

MSVOA\_X

ClientSampleId :

STORAGE-BLANK-SAMPLE-MANA

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 114   | Resp: | 738591 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 20.7  | 0.0   | 39.6   |
| 88       | 15.5  | 0.0   | 30.8   |



#35

Dibromofluoromethane

Concen: 49.188 ug/l

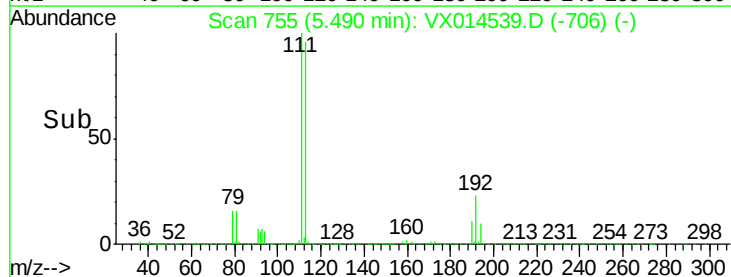
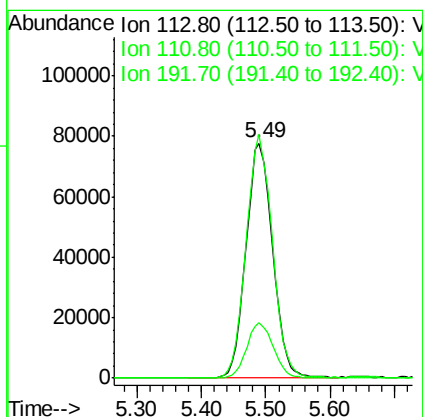
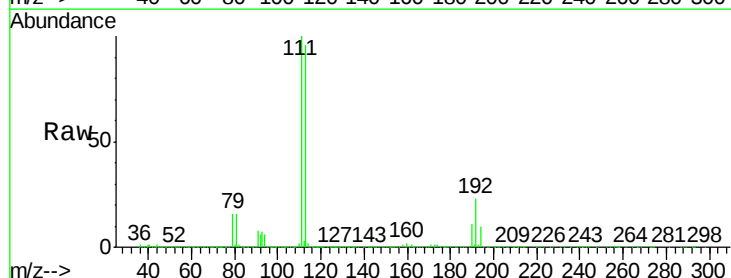
RT: 5.49 min Scan# 755

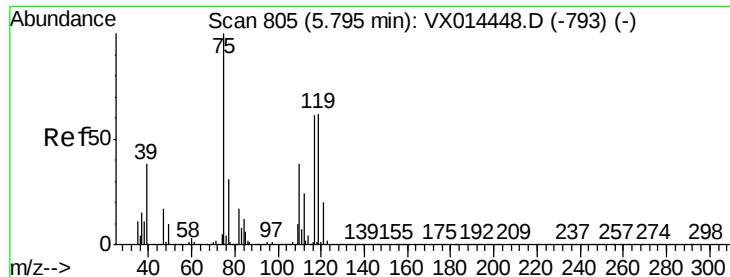
Delta R.T. 0.00 min

Lab File: VX014539.D

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|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 113   | Resp: | 219921 |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 111      | 102.4 | 81.5  | 122.3  |
| 192      | 23.8  | 19.2  | 28.8   |

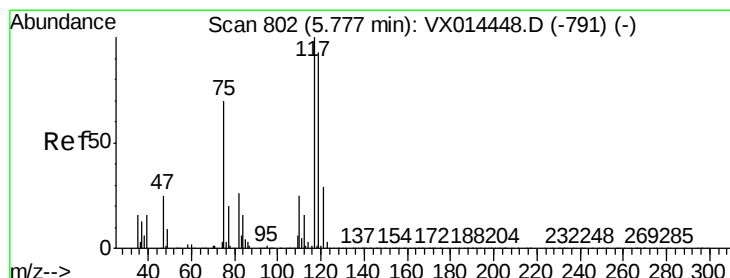
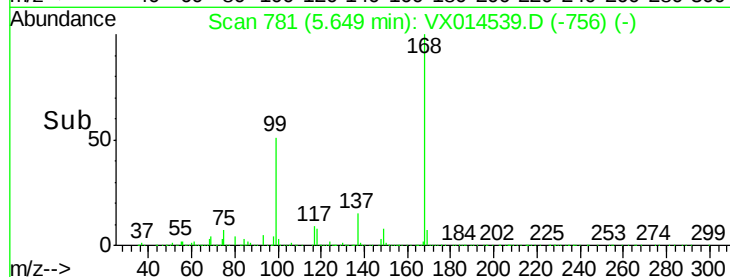
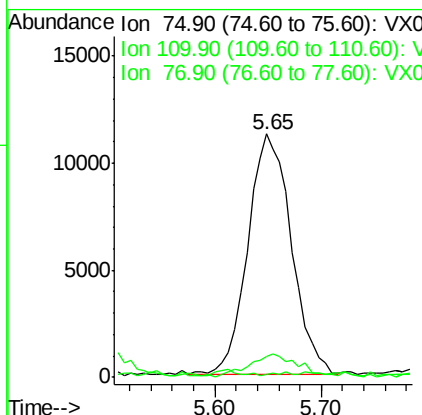
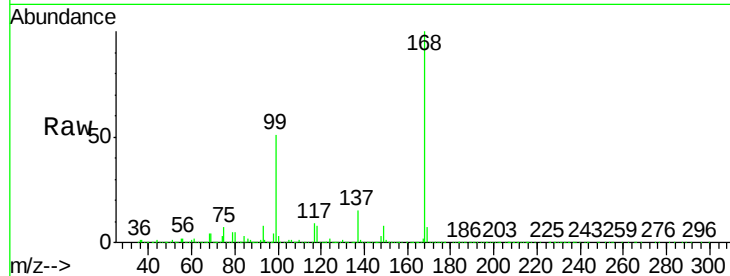




#36  
 1,1-Dichloropropene  
 Concen: 4.637 ug/l  
 RT: 5.65 min Scan# 781  
 Delta R.T. -0.15 min  
 Lab File: VX014539.D  
 Acq: 10 Jan 2020 15:58

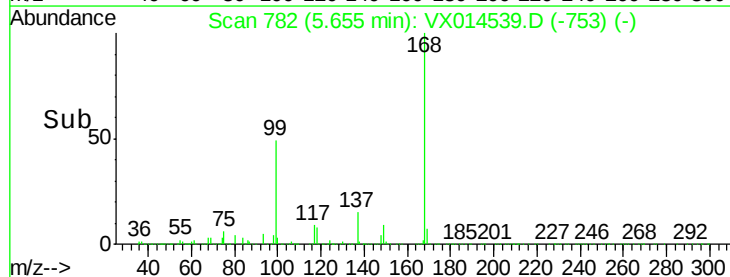
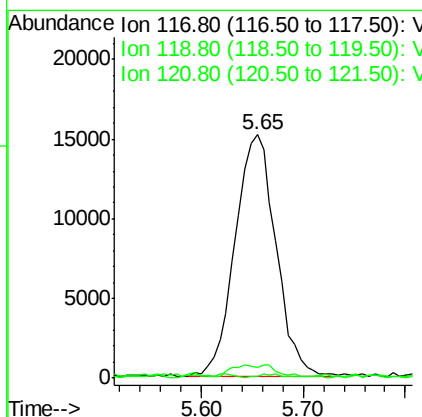
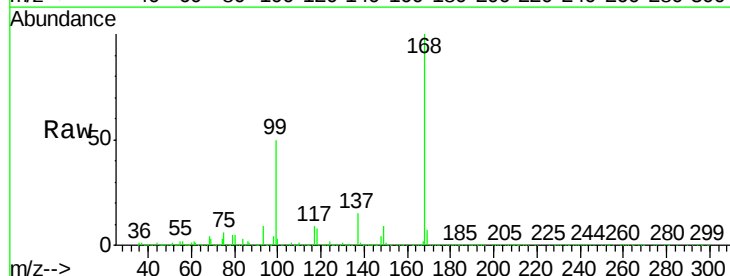
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 STORAGE-BLANK-SAMPLE-MANA

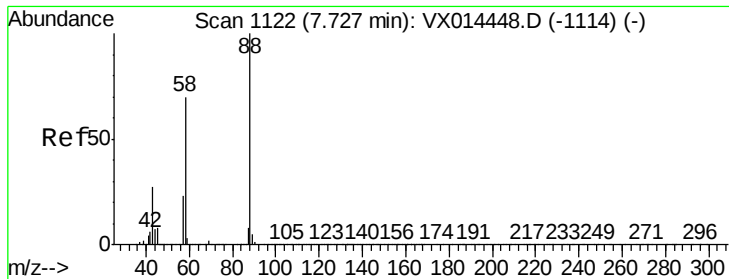
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 11.0  | 18.6  | 55.8# |
| 77      | 0.4   | 24.5  | 36.7# |



#38  
 Carbon Tetrachloride  
 Concen: 6.652 ug/l  
 RT: 5.65 min Scan# 782  
 Delta R.T. -0.12 min  
 Lab File: VX014539.D  
 Acq: 10 Jan 2020 15:58

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 3.1   | 73.8  | 110.8# |
| 121     | 0.0   | 23.4  | 35.0#  |

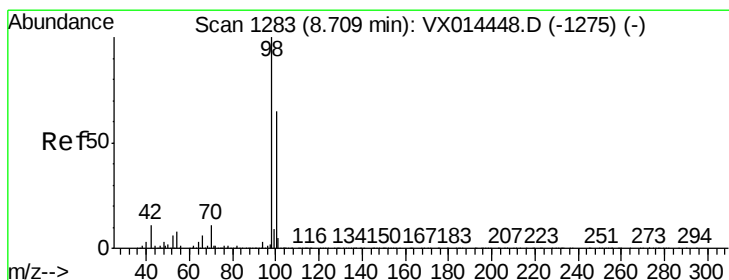
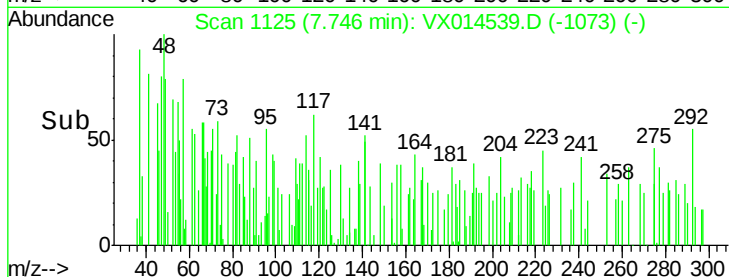
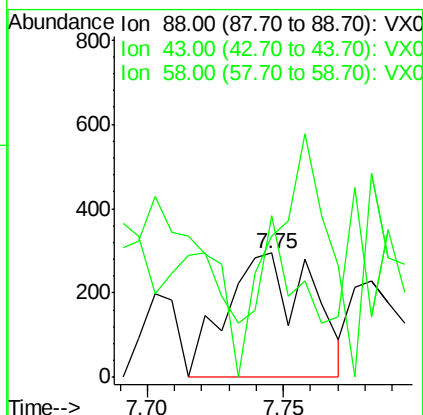
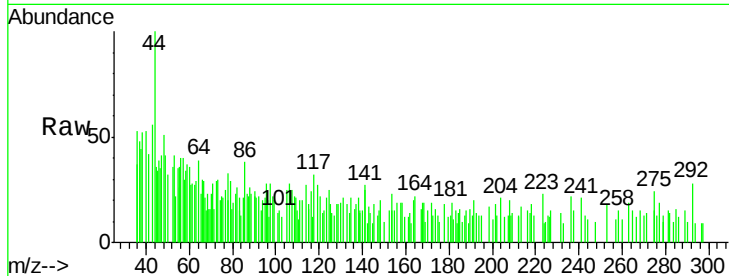




#49  
1,4-Dioxane  
Concen: 5.102 ug/l  
RT: 7.75 min Scan# 1125  
Delta R.T. 0.02 min  
Lab File: VX014539.D  
Acq: 10 Jan 2020 15:58

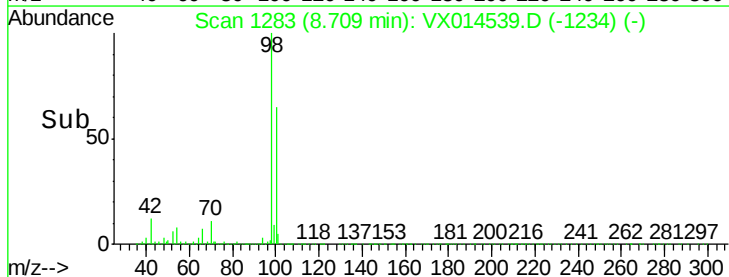
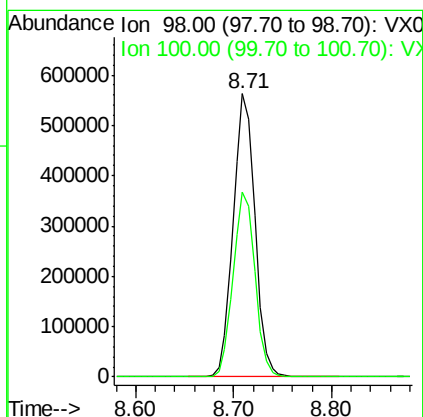
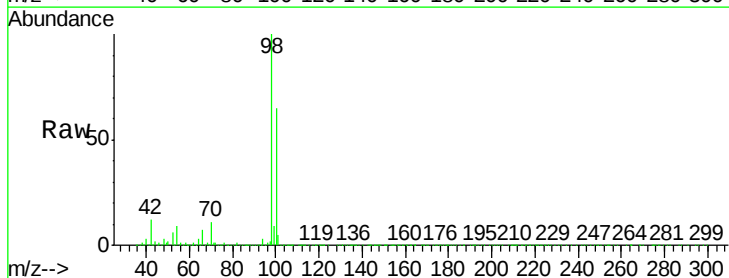
Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-SAMPLE-MANA

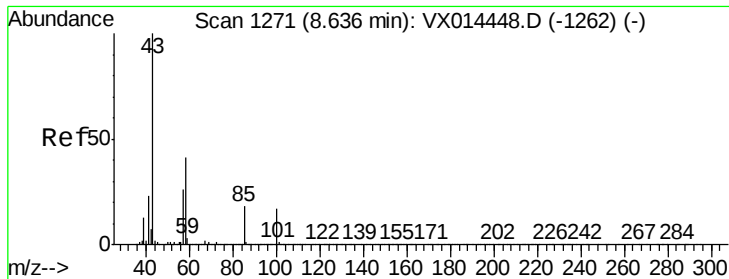
Tgt Ion: 88 Resp: 631  
Ion Ratio Lower Upper  
88 100  
43 126.0 27.4 41.0#  
58 26.1 57.1 85.7#



#50  
Toluene-d8  
Concen: 50.207 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. 0.00 min  
Lab File: VX014539.D  
Acq: 10 Jan 2020 15:58

Tgt Ion: 98 Resp: 871119  
Ion Ratio Lower Upper  
98 100  
100 65.6 53.2 79.8

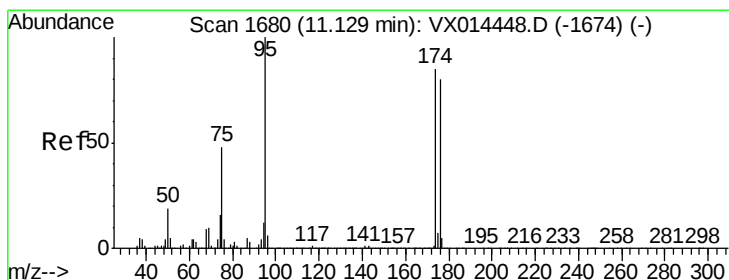
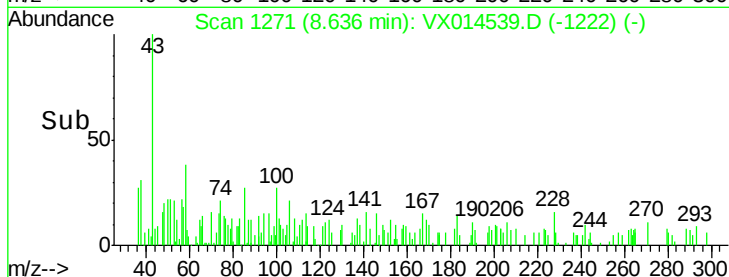
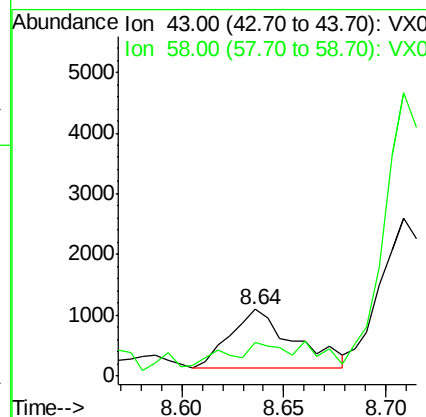
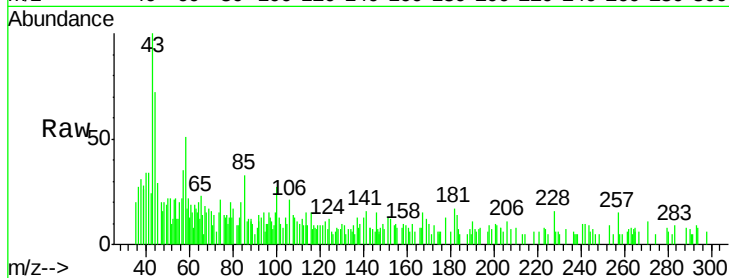




#51  
 4-Methyl-2-Pentanone  
 Concen: 0.277 ug/l  
 RT: 8.64 min Scan# 1271  
 Delta R.T. 0.00 min  
 Lab File: VX014539.D  
 Acq: 10 Jan 2020 15:58

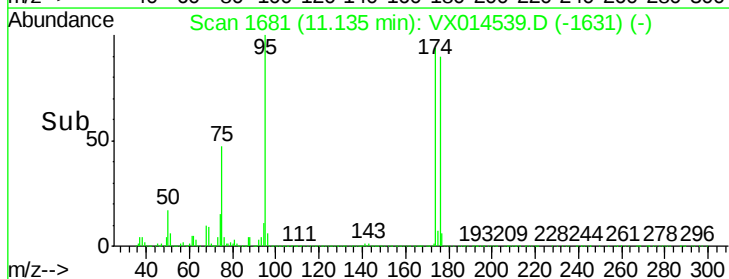
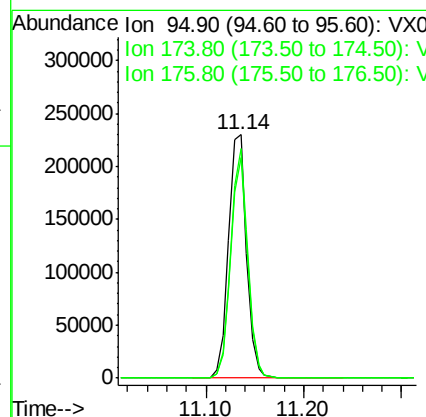
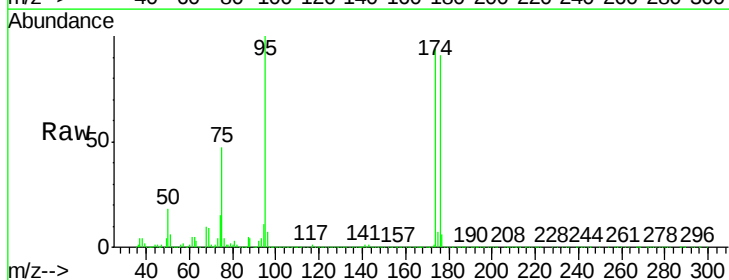
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 STORAGE-BLANK-SAMPLE-MANA

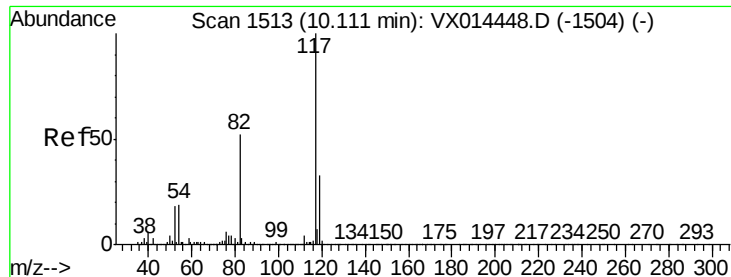
Tgt Ion: 43 Resp: 2055  
 Ion Ratio Lower Upper  
 43 100  
 58 47.1 32.4 48.6



#62  
 4-Bromofluorobenzene  
 Concen: 46.097 ug/l  
 RT: 11.14 min Scan# 1681  
 Delta R.T. 0.01 min  
 Lab File: VX014539.D  
 Acq: 10 Jan 2020 15:58

Tgt Ion: 95 Resp: 293619  
 Ion Ratio Lower Upper  
 95 100  
 174 89.8 0.0 180.8  
 176 86.2 0.0 172.8

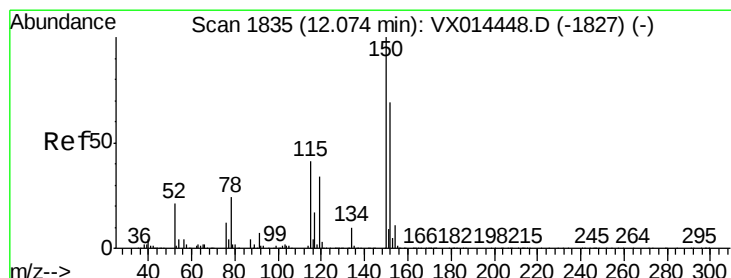
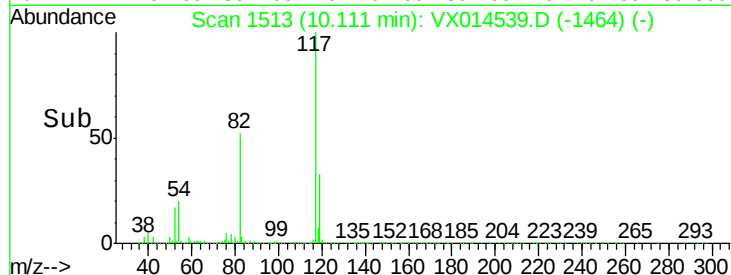
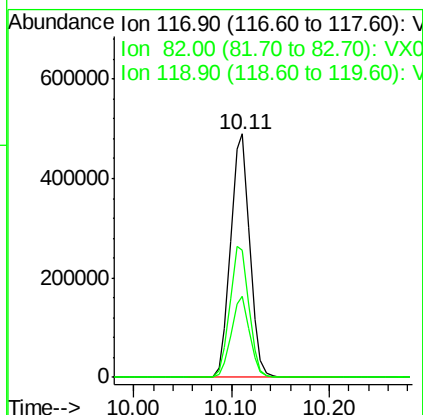
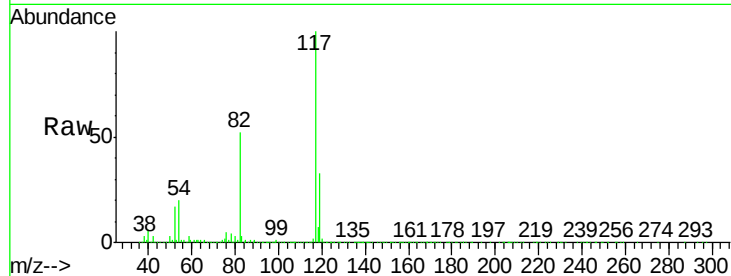




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VX014539.D  
Acq: 10 Jan 2020 15:58

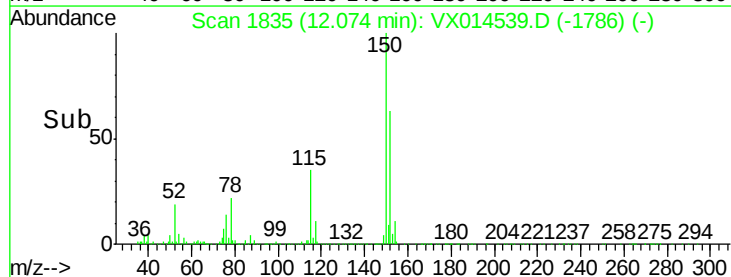
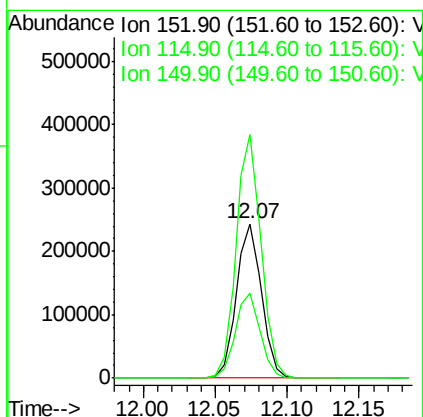
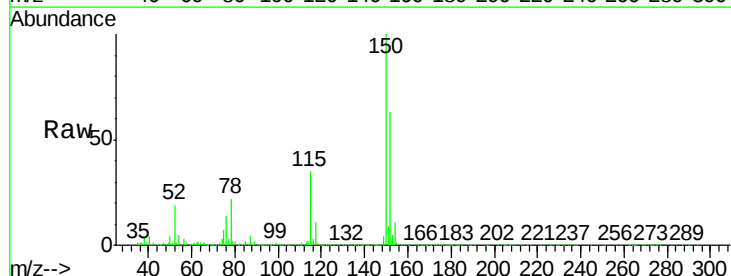
Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-SAMPLE-MANA

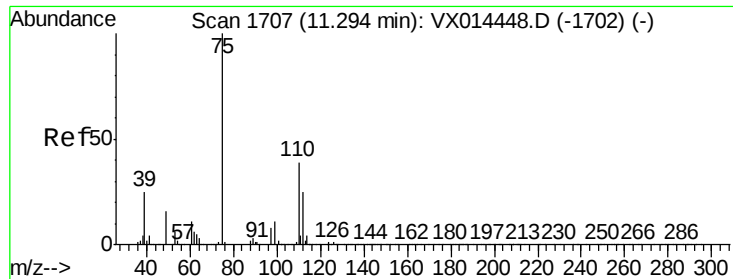
Tgt Ion:117 Resp: 664077  
Ion Ratio Lower Upper  
117 100  
82 52.0 41.8 62.6  
119 33.3 26.2 39.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. 0.00 min  
Lab File: VX014539.D  
Acq: 10 Jan 2020 15:58

Tgt Ion:152 Resp: 295848  
Ion Ratio Lower Upper  
152 100  
115 54.8 39.5 118.3  
150 156.8 0.0 350.2





#76

1,2,3-Trichloropropane

Concen: 23.349 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014539.D

Acq: 10 Jan 2020 15:58

Instrument :

MSVOA\_X

ClientSampleId :

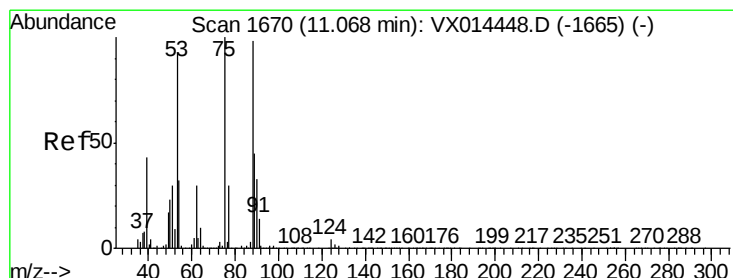
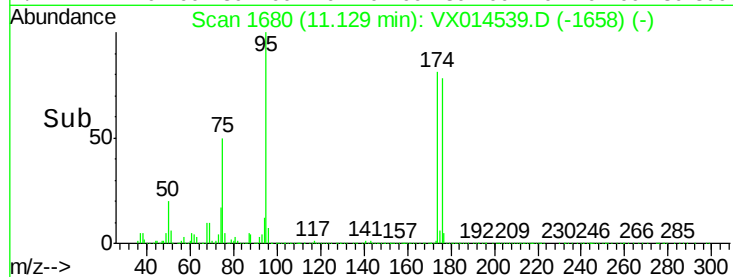
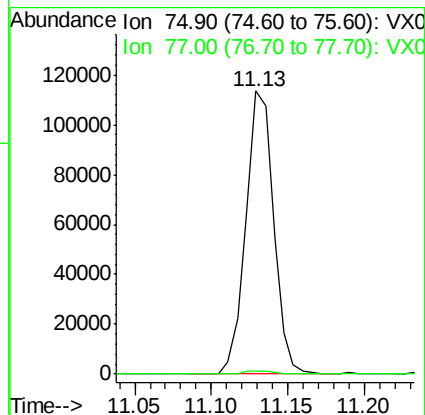
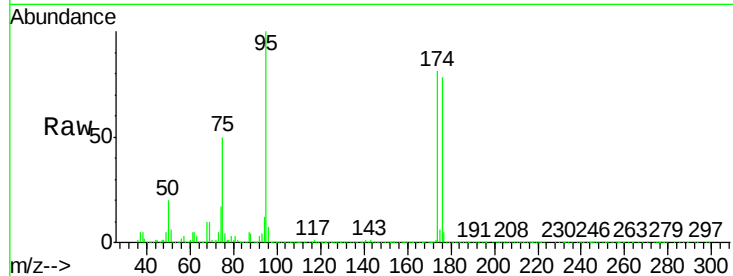
STORAGE-BLANK-SAMPLE-MANA

Tgt Ion: 75 Resp: 142925

Ion Ratio Lower Upper

75 100

77 1.2 21.9 65.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.731 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014539.D

Acq: 10 Jan 2020 15:58

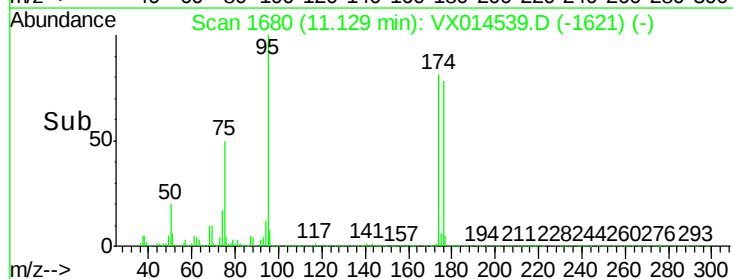
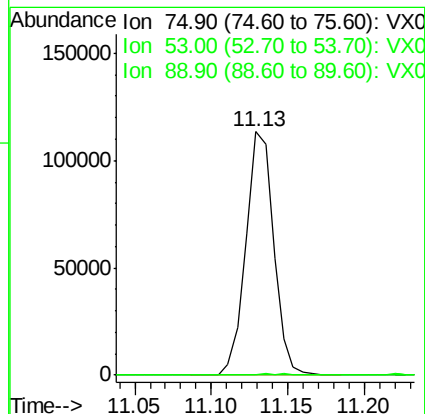
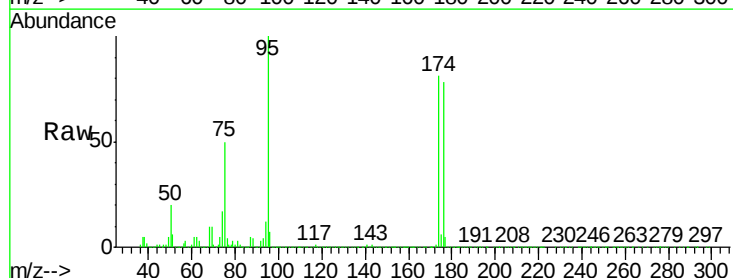
Tgt Ion: 75 Resp: 142925

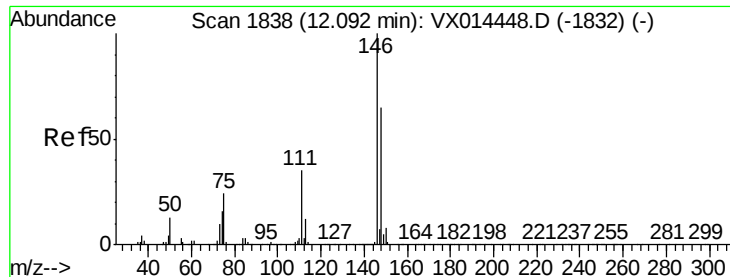
Ion Ratio Lower Upper

75 100

53 0.1 74.8 112.2#

89 0.0 36.3 54.5#





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.10 min Scan# 1839

Delta R.T. 0.01 min

Lab File: VX014539.D

Acq: 10 Jan 2020 15:58

Instrument :

MSVOA\_X

ClientSampleId :

STORAGE-BLANK-SAMPLE-MANA

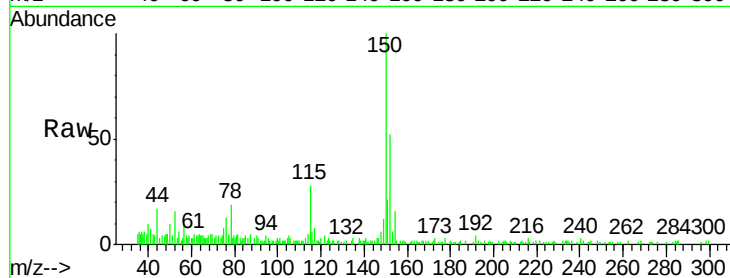
Tgt Ion:146 Resp: 345

Ion Ratio Lower Upper

146 100

111 0.0 18.1 54.1#

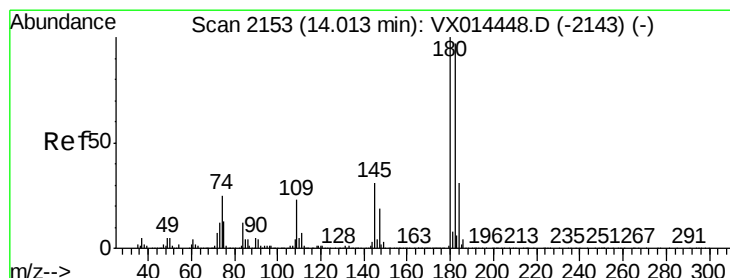
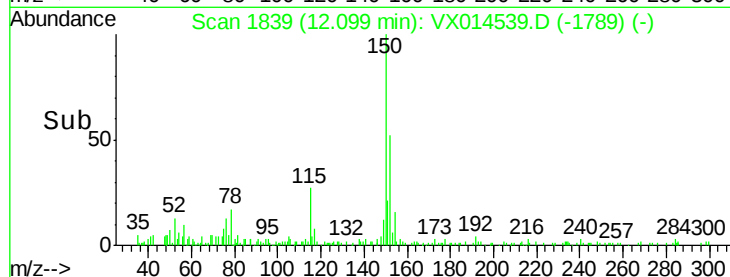
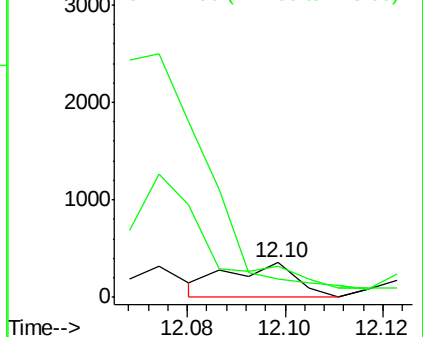
148 0.0 32.1 96.3#



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



#96

1,2,3-Trichlorobenzene

Concen: Below Cal

RT: 14.02 min Scan# 2154

Delta R.T. 0.01 min

Lab File: VX014539.D

Acq: 10 Jan 2020 15:58

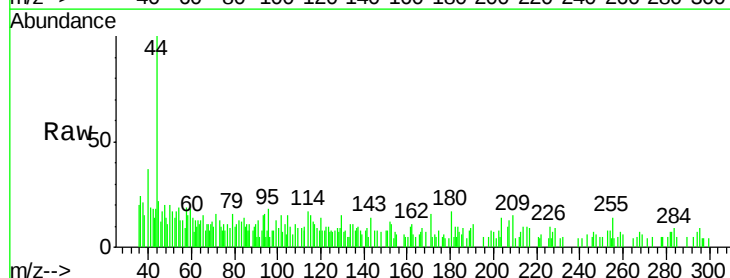
Tgt Ion:180 Resp: 361

Ion Ratio Lower Upper

180 100

182 72.6 47.9 143.6

145 40.7 14.8 44.3



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

