

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061818\  
 Data File : VX002687.D  
 Acq On : 18 Jun 2018 18:48  
 Operator : JC/MD  
 Sample : J3525-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jun 19 05:01:24 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X061818W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Jun 18 15:18:02 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.03  | 128  | 41295    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.87  | 114  | 228424   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.12 | 117  | 203447   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.07   | 65    | 96850    | 30.71    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 102.37% |
| 60) 4-Bromofluorobenzene  | 11.14  | 95    | 92348    | 27.48    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 91.60%  |
| 63) Toluene-d8            | 8.72   | 98    | 267315   | 30.08    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 100.27% |

## Target Compounds

|                               |      |     |        |        |        | Ovalue |
|-------------------------------|------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 264    | 0.13   | ug/l   | 93     |
| 3) Chloromethane              | 1.73 | 50  | 245    | 0.11   | ug/l   | 92     |
| 4) Vinyl Chloride             | 1.65 | 62  | 136    | 0.06   | ug/l   | 96     |
| 5) Bromomethane               | 1.65 | 94  | 501    | 0.36   | ug/l   | 85     |
| 6) Chloroethane               | 1.32 | 64  | 467518 | 291.58 | ug/l # | 53     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 364    | 0.09   | ug/l # | 71     |
| 8) Diethyl Ether              | 2.20 | 74  | 2072   | 1.37   | ug/l   | 93     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101 | 146    | 0.06   | ug/l # | 6      |
| 10) 1,1-Dichloroethene        | 2.37 | 96  | 143    | 0.07   | ug/l # | 31     |
| 11) Methyl Iodide             | 2.51 | 142 | 1907   | 0.78   | ug/l # | 87     |
| 12) Methyl Acetate            | 2.83 | 43  | 45     | 0.01   | ug/l   | 100    |
| 13) Acrolein                  | 2.18 | 56  | 65     | 0.26   | ug/l   | 94     |
| 14) Acrylonitrile             | 3.16 | 53  | 69     | 0.05   | ug/l # | 1      |
| 15) Acetone                   | 2.45 | 58  | 52191  | 144.10 | ug/l   | 97     |
| 16) Carbon Disulfide          | 2.70 | 76  | 6059   | 1.13   | ug/l   | 97     |
| 17) Allyl chloride            | 2.71 | 41  | 4184   | 0.98   | ug/l # | 50     |
| 18) Methylene Chloride        | 2.86 | 84  | 713    | 0.29   | ug/l # | 71     |
| 19) trans-1,2-Dichloroethene  | 3.15 | 96  | 239    | 0.10   | ug/l # | 68     |
| 20) Diisopropyl ether         | 3.88 | 45  | 169    | 0.02   | ug/l # | 55     |
| 21) 1,1-Dichloroethane        | 3.70 | 63  | 784    | 0.18   | ug/l # | 84     |
| 22) cis-1,2-Dichloroethene    | 4.60 | 96  | 356    | 0.14   | ug/l # | 1      |
| 23) tert-Butyl Alcohol        | 3.08 | 59  | 6707   | 11.34  | ug/l # | 99     |
| 24) Methyl tert-Butyl Ether   | 3.21 | 73  | 41451  | 5.20   | ug/l   | 100    |
| 25) Chloroform                | 5.59 | 83  | 89     | 0.02   | ug/l   | 92     |
| 26) Cyclohexane               | 5.57 | 56  | 487    | 0.13   | ug/l # | 37     |
| 29) 1,1-Dichloropropene       | 5.79 | 75  | 361    | 0.12   | ug/l   | 64     |
| 30) 2-Butanone                | 4.72 | 43  | 26388  | 14.95  | ug/l   | 96     |
| 31) 2,2-Dichloropropane       | 4.59 | 77  | 20     | 0.01   | ug/l # | 52     |
| 33) Carbon Tetrachloride      | 5.78 | 117 | 71     | 0.02   | ug/l # | 14     |
| 34) Benzene                   | 6.15 | 78  | 93707  | 10.26  | ug/l   | 97     |
| 35) Methacrylonitrile         | 5.07 | 41  | 67     | 0.03   | ug/l # | 26     |
| 36) 1,2-Dichloroethane        | 6.20 | 62  | 460    | 0.13   | ug/l # | 77     |
| 37) Trichloroethene           | 7.23 | 130 | 483    | 0.18   | ug/l # | 74     |
| 38) Methylcyclohexane         | 7.46 | 83  | 552    | 0.15   | ug/l # | 44     |
| 39) 1,2-Dichloropropane       | 7.52 | 63  | 65     | 0.03   | ug/l # | 46     |
| 40) Dibromomethane            | 7.67 | 93  | 97     | 0.06   | ug/l # | 37     |
| 41) Bromodichloromethane      | 7.91 | 83  | 41     | 0.01   | ug/l # | 26     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061818\  
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 Acq On : 18 Jun 2018 18:48  
 Operator : JC/MD  
 Sample : J3525-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

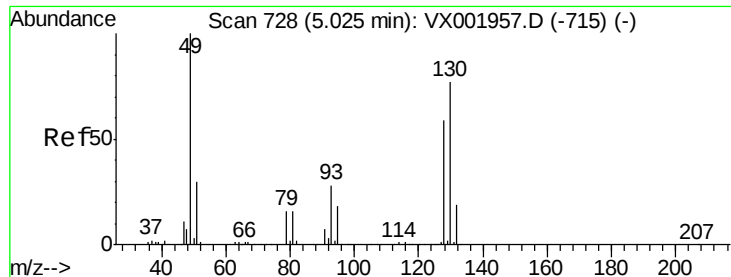
Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jun 19 05:01:24 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X061818W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Jun 18 15:18:02 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 42) Vinyl Acetate              | 3.83  | 43   | 478      | 0.07  | ug/l # | 76       |
| 43) Ethyl Acetate              | 4.89  | 43   | 109      | 0.03  | ug/l # | 1        |
| 44) Isopropyl Acetate          | 6.48  | 43   | 88       | 0.02  | ug/l # | 59       |
| 45) 1,4-Dioxane                | 7.77  | 88   | 22       | 0.40  | ug/l # | 1        |
| 46) Methyl methacrylate        | 7.46  | 41   | 385      | 0.13  | ug/l   | 86       |
| 47) n-amyl Acetate             | 10.91 | 43   | 313      | 0.06  | ug/l # | 57       |
| 48) t-1,3-Dichloropropene      | 8.43  | 75   | 95       | 0.03  | ug/l # | 3        |
| 49) cis-1,3-Dichloropropene    | 9.06  | 75   | 89       | 0.03  | ug/l # | 64       |
| 50) 1,1,2-Trichloroethane      | 9.16  | 97   | 40       | 0.02  | ug/l # | 14       |
| 51) Ethyl methacrylate         | 9.11  | 69   | 818      | 0.22  | ug/l   | 68       |
| 52) 1,3-Dichloropropane        | 9.38  | 76   | 101      | 0.03  | ug/l # | 43       |
| 53) Dibromochloromethane       | 9.34  | 129  | 723      | 0.28  | ug/l # | 11       |
| 54) 1,2-Dibromoethane          | 9.68  | 107  | 130      | 0.05  | ug/l # | 74       |
| 55) 2-Chloroethyl vinyl ether  | 8.32  | 63   | 207      | 0.12  | ug/l # | 74       |
| 56) Bromoform                  | 11.14 | 173  | 1088     | 0.53  | ug/l # | 1        |
| 58) 4-Methyl-2-Pentanone       | 8.66  | 43   | 15701    | 4.55  | ug/l   | 98       |
| 59) 2-Hexanone                 | 9.51  | 43   | 2304     | 0.87  | ug/l # | 62       |
| 61) Tetrachloroethene          | 9.34  | 164  | 677      | 0.24  | ug/l # | 83       |
| 62) Toluene                    | 8.79  | 91   | 13536    | 1.38  | ug/l   | 99       |
| 64) Chlorobenzene              | 10.15 | 112  | 625      | 0.10  | ug/l # | 70       |
| 66) Ethyl Benzene              | 10.26 | 91   | 3736     | 0.34  | ug/l   | 98       |
| 67) m/p-Xylenes                | 10.36 | 106  | 3424     | 0.80  | ug/l   | 96       |
| 68) o-Xylene                   | 10.70 | 106  | 3057     | 0.73  | ug/l   | 96       |
| 69) Styrene                    | 10.71 | 104  | 827      | 0.12  | ug/l # | 44       |
| 70) Isopropylbenzene           | 11.02 | 105  | 1464     | 0.13  | ug/l   | 94       |
| 71) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 39       | 0.01  | ug/l # | 1        |
| 72) 1,2,3-Trichloropropane     | 11.30 | 75   | 177      | 0.06  | ug/l # | 10       |
| 73) Bromobenzene               | 11.26 | 156  | 232      | 0.07  | ug/l   | 79       |
| 74) n-propylbenzene            | 11.37 | 91   | 1740     | 0.13  | ug/l   | 95       |
| 75) 2-Chlorotoluene            | 11.42 | 91   | 1050     | 0.13  | ug/l   | 90       |
| 76) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 3233     | 0.33  | ug/l   | 95       |
| 77) t-1,4-Dichloro-2-butene    | 11.14 | 75   | 49481    | 51.49 | ug/l # | 11       |
| 78) 4-Chlorotoluene            | 11.52 | 91   | 1602     | 0.17  | ug/l   | 84       |
| 79) tert-butylbenzene          | 12.07 | 119  | 5165     | 0.48  | ug/l   | 98       |
| 80) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 7959     | 0.80  | ug/l   | 75       |
| 81) sec-Butylbenzene           | 11.95 | 105  | 1147     | 0.10  | ug/l   | 86       |
| 82) p-Isopropyltoluene         | 12.07 | 119  | 5165     | 0.48  | ug/l   | 98       |
| 83) 1,3-Dichlorobenzene        | 12.03 | 146  | 795      | 0.13  | ug/l   | 89       |
| 84) 1,4-Dichlorobenzene        | 12.10 | 146  | 910      | 0.15  | ug/l   | 96       |
| 85) n-Butylbenzene             | 12.40 | 91   | 1839     | 0.19  | ug/l   | 77       |
| 86) Hexachloroethane           | 12.59 | 117  | 205      | 0.13  | ug/l # | 2        |
| 87) 1,2-Dichlorobenzene        | 12.40 | 146  | 634      | 0.11  | ug/l   | 89       |
| 88) 1,2-Dibromo-3-Chloropropan | 12.97 | 75   | 128      | 0.17  | ug/l # | 1        |
| 89) 1,2,4-Trichlorobenzene     | 13.65 | 180  | 890      | 0.20  | ug/l # | 91       |
| 90) Hexachlorobutadiene        | 13.79 | 225  | 353      | 0.15  | ug/l   | 83       |
| 91) Naphthalene                | 13.84 | 128  | 36507    | 3.06  | ug/l   | 100      |
| 92) 1,2,3-Trichlorobenzene     | 13.65 | 180  | 890      | 0.20  | ug/l   | 92       |

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





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 5.03 min Scan# 728

Delta R.T. -0.00 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

Instrument :

MSVOA\_X

ClientSampleId :

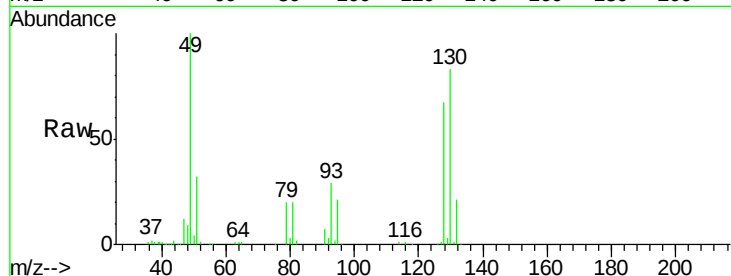
Tot Ion:128 Resp: 41295

Ion Ratio Lower Upper

128 100

49 159.3 0.0 423.0

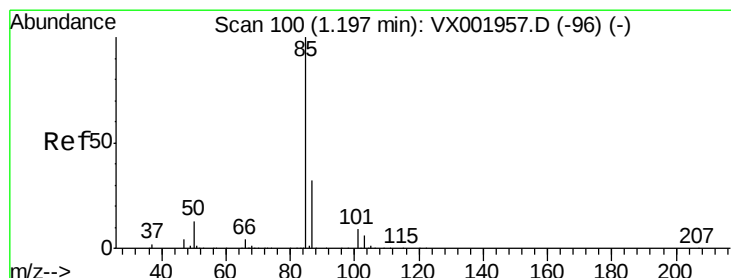
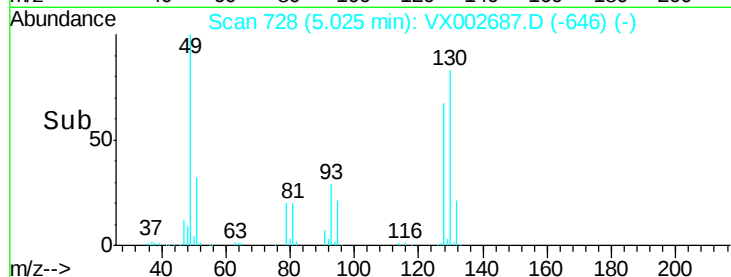
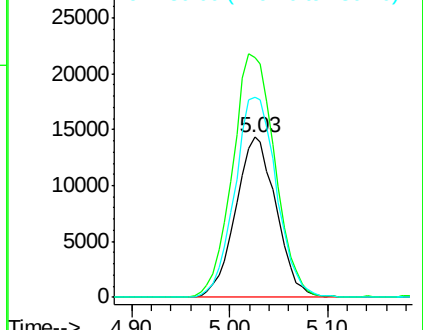
130 129.2 0.0 324.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.13 ug/l

RT: 1.20 min Scan# 100

Delta R.T. -0.00 min

Lab File: VX002687.D

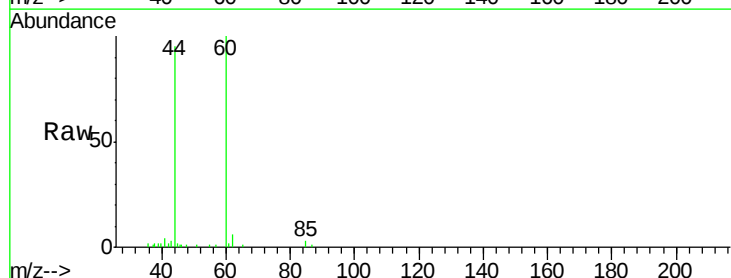
Acq: 18 Jun 2018 18:48

Tgt Ion: 85 Resp: 264

Ion Ratio Lower Upper

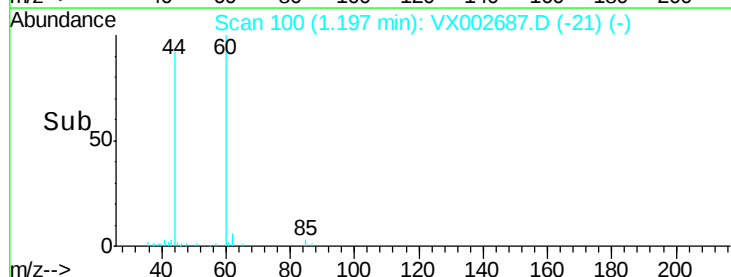
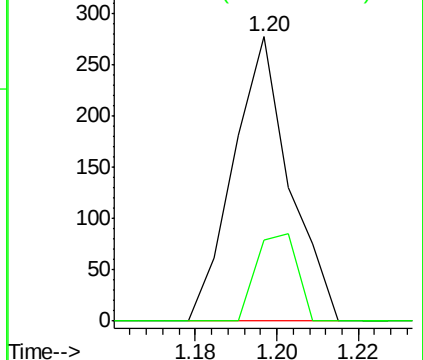
85 100

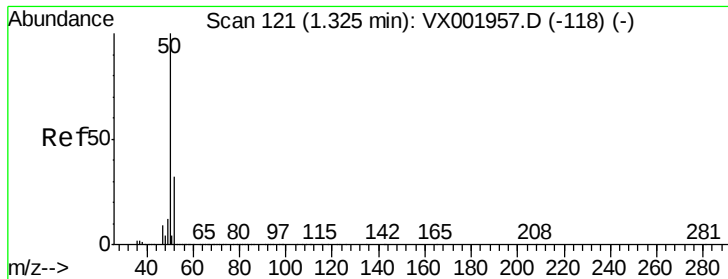
87 28.2 16.2 48.5



Abundance Ion 85.00 (84.70 to 85.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#3

Chloromethane

Concen: 0.11 ug/l

RT: 1.73 min Scan# 187

Delta R.T. 0.40 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

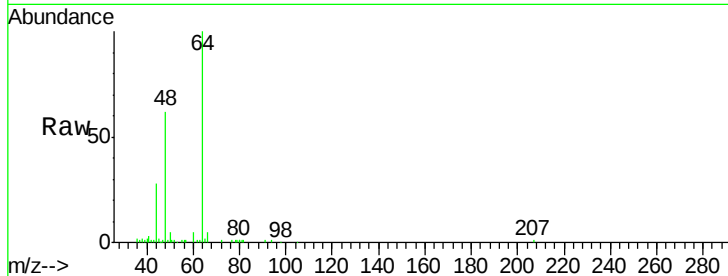
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 50 Resp: 245

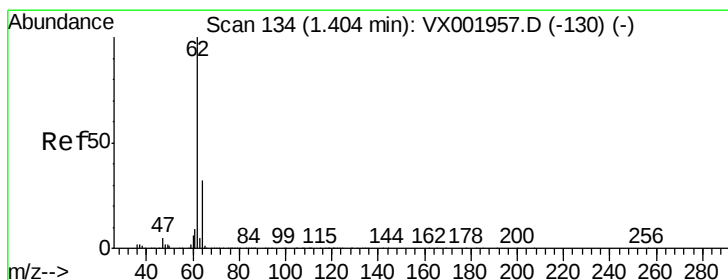
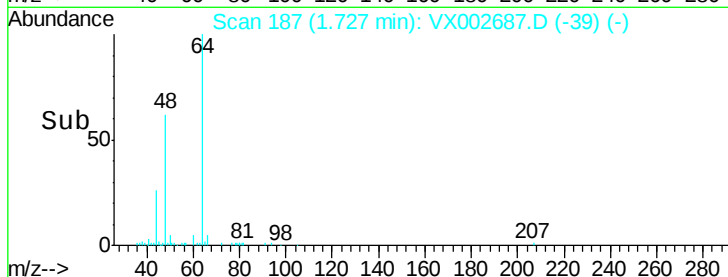
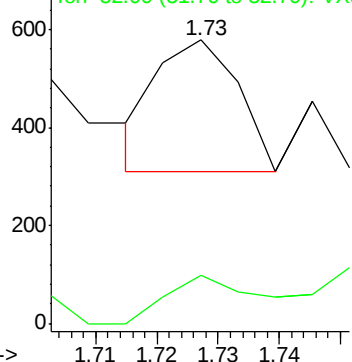
Ion Ratio Lower Upper

50 100

52 36.3 25.6 38.4



Abundance Ion 50.00 (49.70 to 50.70): VX0  
Ion 52.00 (51.70 to 52.70): VX0



#4

Vinyl Chloride

Concen: 0.06 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.24 min

Lab File: VX002687.D

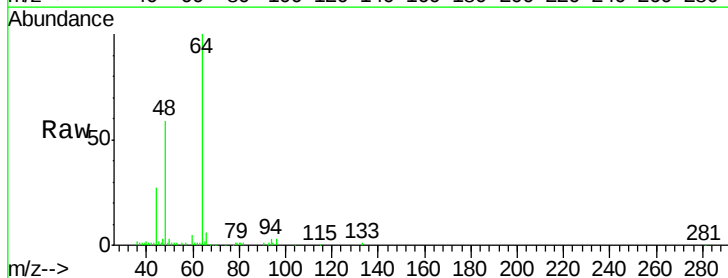
Acq: 18 Jun 2018 18:48

Tgt Ion: 62 Resp: 136

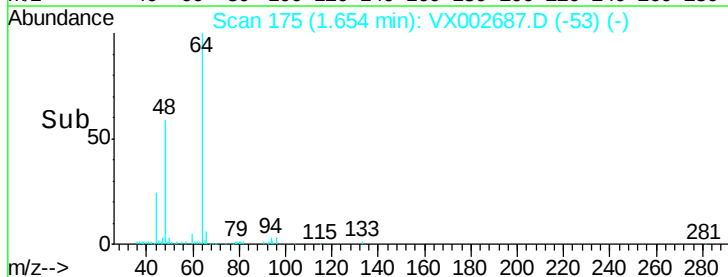
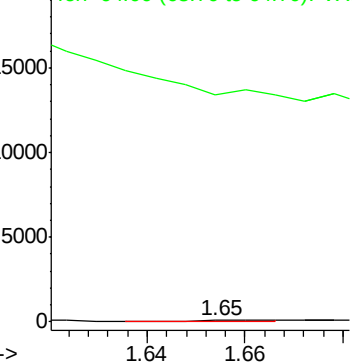
Ion Ratio Lower Upper

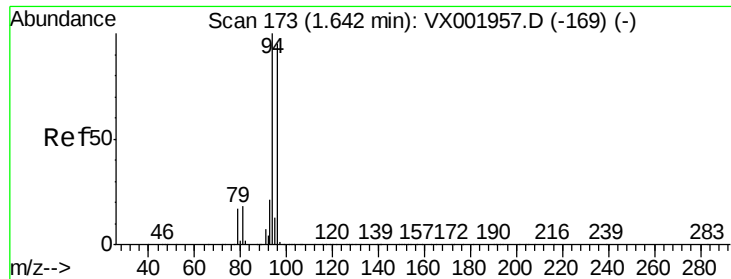
62 100

64 33.7 25.3 37.9



Abundance Ion 62.00 (61.70 to 62.70): VX0  
Ion 64.00 (63.70 to 64.70): VX0





#5

Bromomethane

Concen: 0.36 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

Instrument :

MSVOA\_X

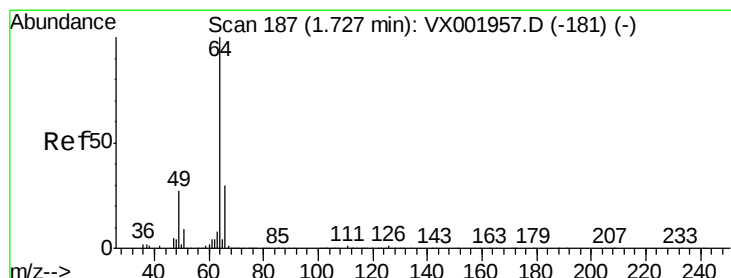
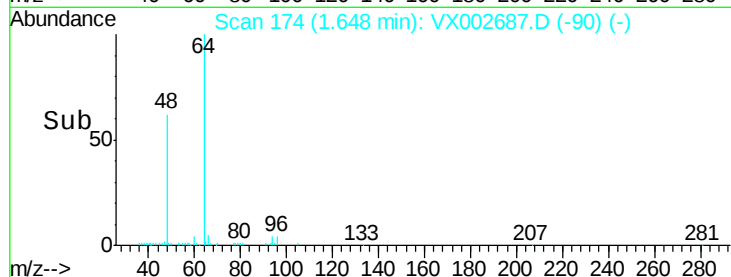
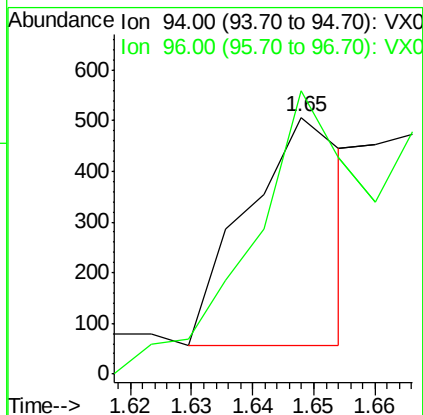
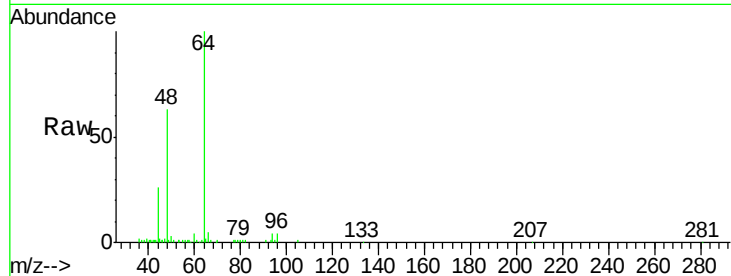
ClientSampled :

Tot Ion: 94 Resp: 501

Ion Ratio Lower Upper

94 100

96 108.7 75.7 113.5



#6

Chloroethane

Concen: 291.58 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.38 min

Lab File: VX002687.D

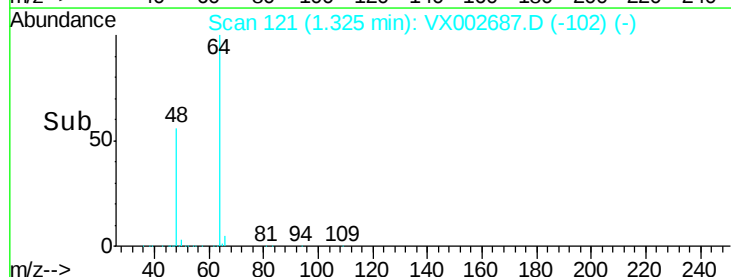
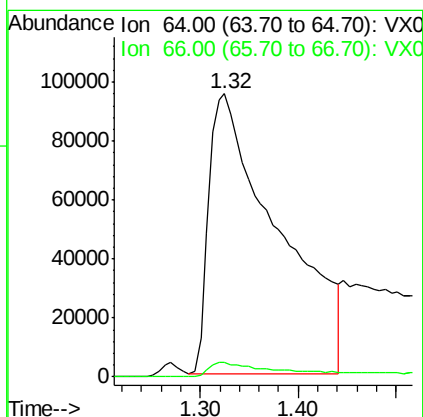
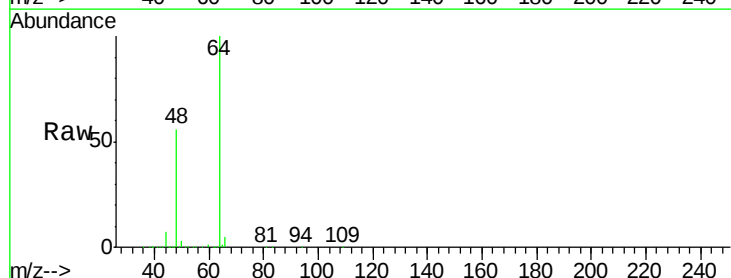
Acq: 18 Jun 2018 18:48

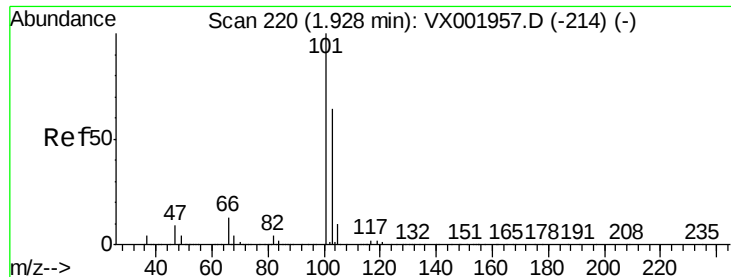
Tgt Ion: 64 Resp: 467518

Ion Ratio Lower Upper

64 100

66 5.0 24.3 36.5#



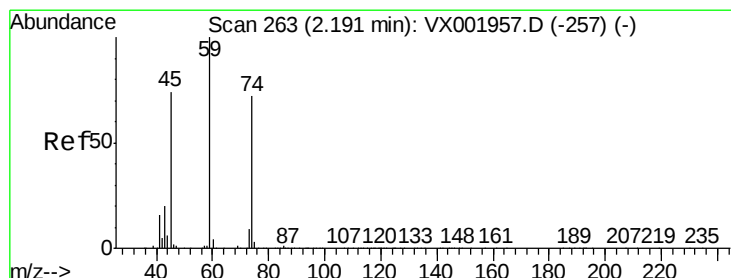
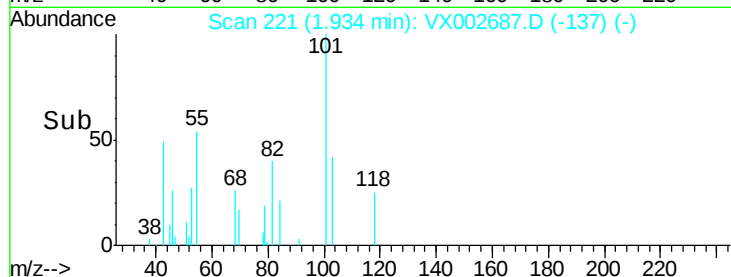
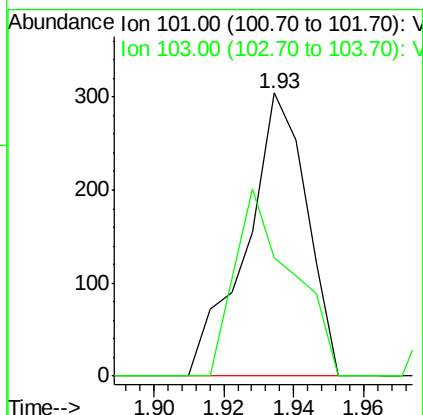
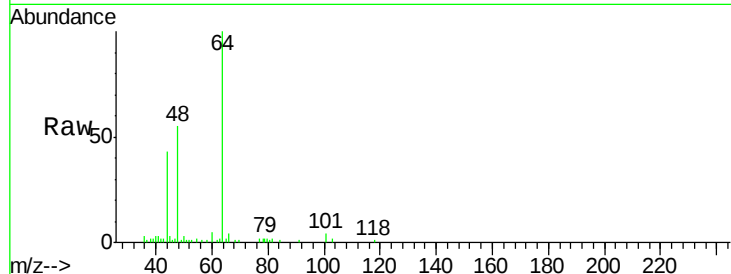


#7

Trichlorofluoromethane  
Concen: 0.09 ug/l  
RT: 1.93 min Scan# 221  
Delta R.T. 0.01 min  
Lab File: VX002687.D  
Acq: 18 Jun 2018 18:48

Instrument :  
MSVOA\_X  
ClientSampleId :

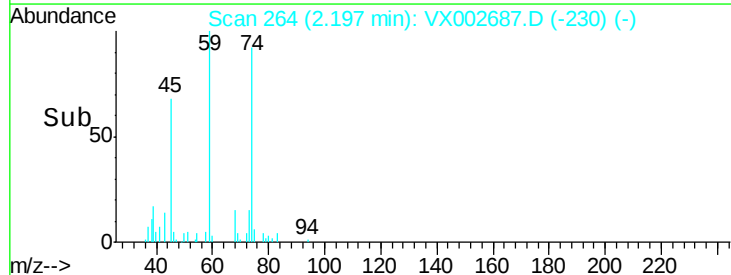
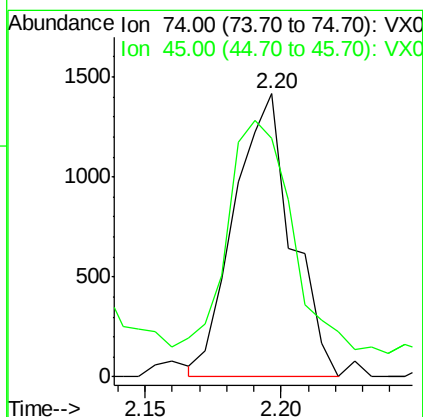
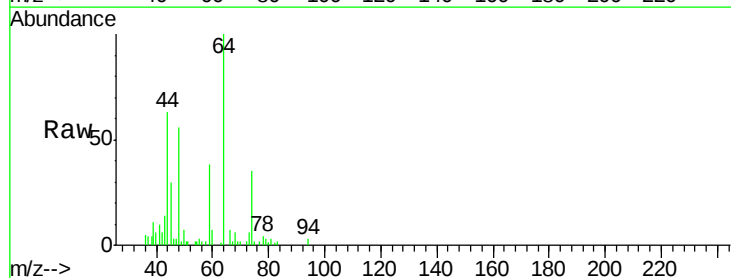
Tot Ion:101 Resp: 364  
Ion Ratio Lower Upper  
101 100  
103 41.8 51.5 77.3#

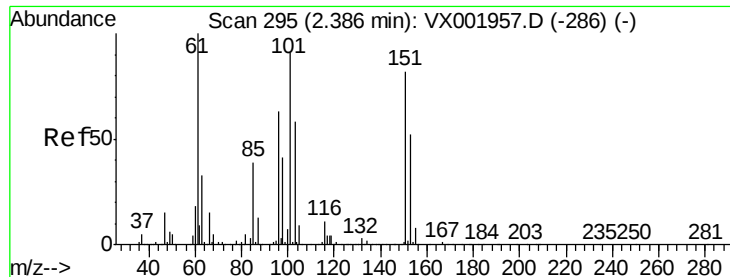


#8

Diethyl Ether  
Concen: 1.37 ug/l  
RT: 2.20 min Scan# 264  
Delta R.T. 0.01 min  
Lab File: VX002687.D  
Acq: 18 Jun 2018 18:48

Tgt Ion: 74 Resp: 2072  
Ion Ratio Lower Upper  
74 100  
45 95.4 20.5 184.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.06 ug/l

RT: 2.39 min Scan# 296

Delta R.T. 0.01 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

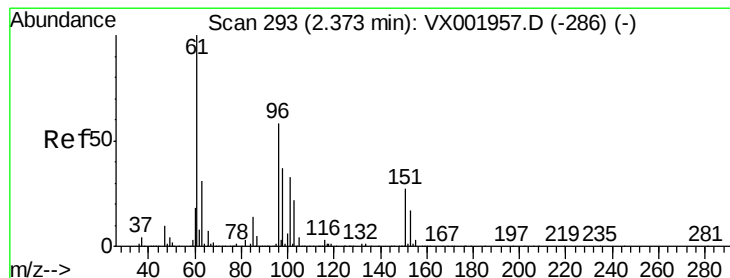
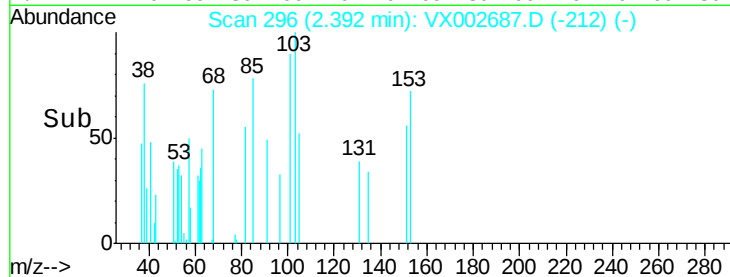
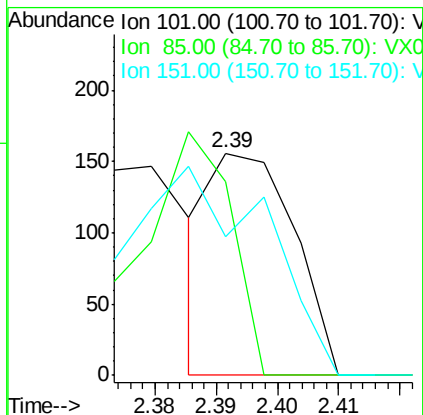
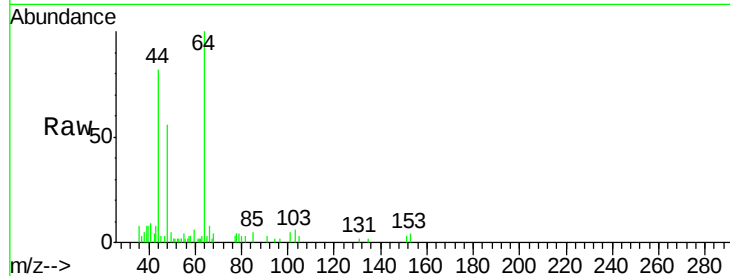
Instrument :

MSVOA\_X

ClientSampleId :

Tot Ion:101 Resp: 146

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 101 | 100   |       |       |
| 85  | 117.1 | 0.0   | 87.0# |
| 151 | 167.8 | 0.0   | 177.6 |



#10

1,1-Dichloroethene

Concen: 0.07 ug/l

RT: 2.37 min Scan# 292

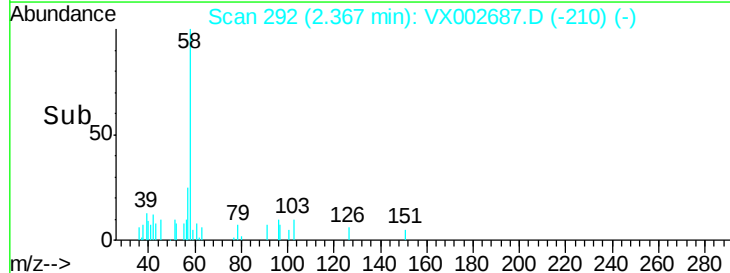
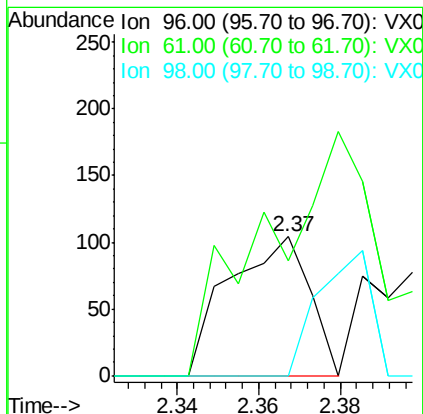
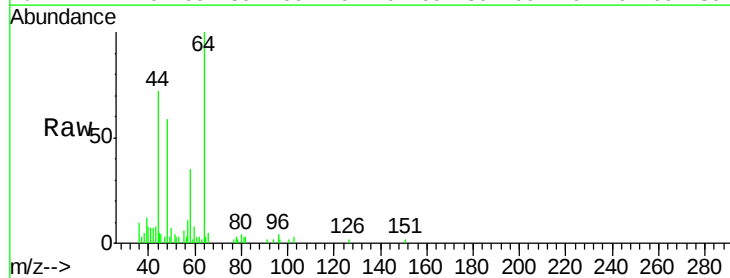
Delta R.T. -0.00 min

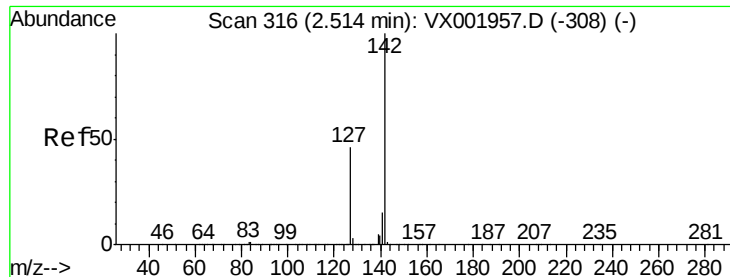
Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

Tgt Ion: 96 Resp: 143

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 96  | 100   |       |        |
| 61  | 82.7  | 137.5 | 206.3# |
| 98  | 0.0   | 51.4  | 77.2#  |

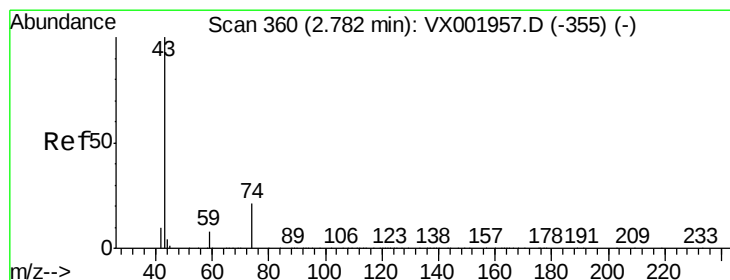
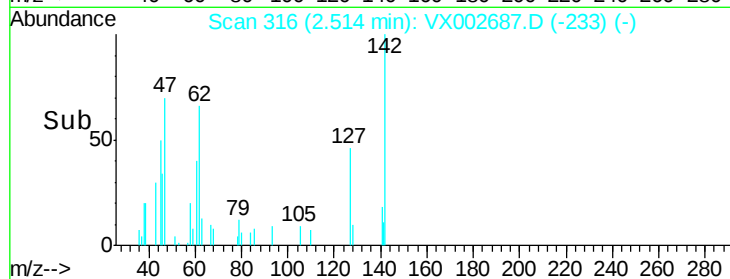
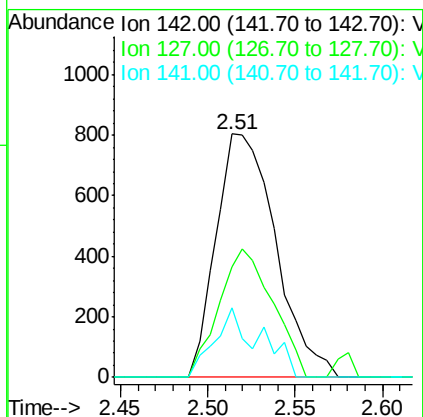
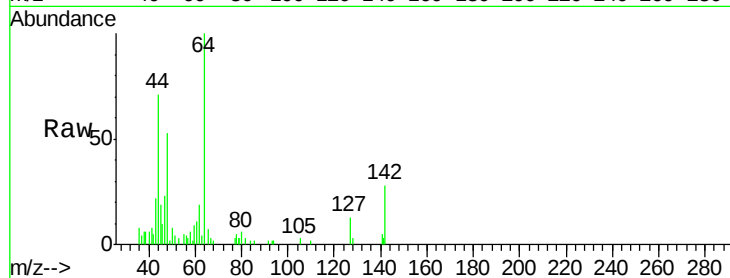




#11  
Methyl Iodide  
Concen: 0.78 ug/l  
RT: 2.51 min Scan# 316  
Delta R.T. 0.01 min  
Lab File: VX002687.D  
Acq: 18 Jun 2018 18:48

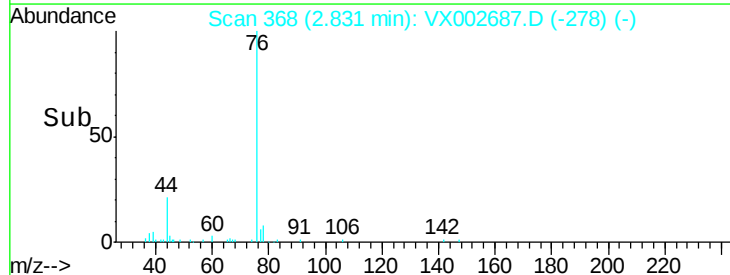
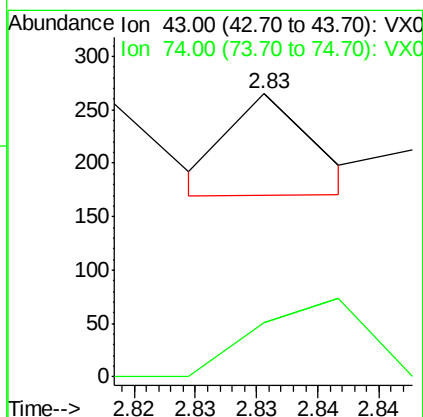
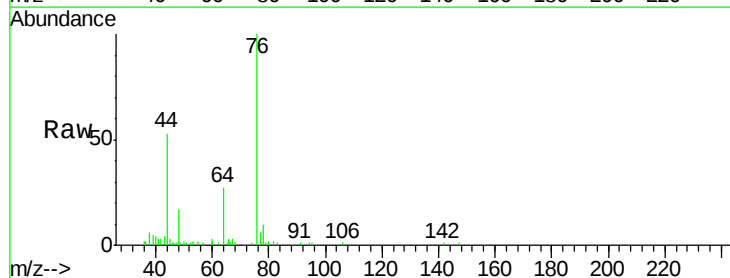
Instrument :  
MSVOA\_X  
ClientSampled :

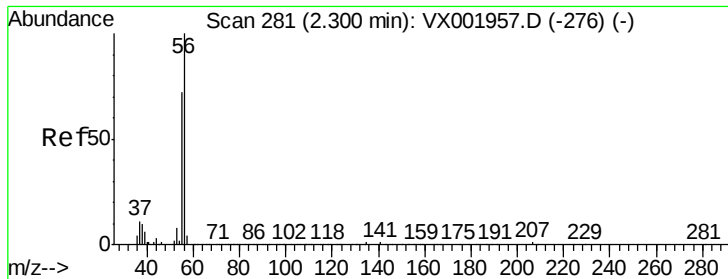
Tot Ion:142 Resp: 1907  
Ion Ratio Lower Upper  
142 100  
127 41.8 23.2 69.6  
141 28.5 7.4 22.2#



#12  
Methyl Acetate  
Concen: 0.01 ug/l  
RT: 2.83 min Scan# 368  
Delta R.T. 0.05 min  
Lab File: VX002687.D  
Acq: 18 Jun 2018 18:48

Tgt Ion: 43 Resp: 45  
Ion Ratio Lower Upper  
43 100  
74 20.7 16.4 24.6





#13

Acrolein

Concen: 0.26 ug/l

RT: 2.18 min Scan# 261

Delta R.T. -0.12 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

Instrument :

MSVOA\_X

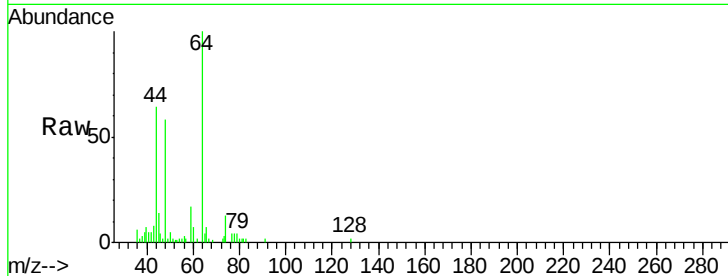
ClientSampleId :

Tot Ion: 56 Resp: 65

Ion Ratio Lower Upper

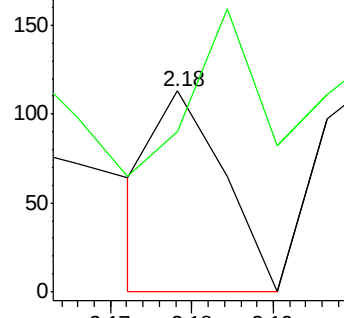
56 100

55 76.9 57.3 85.9

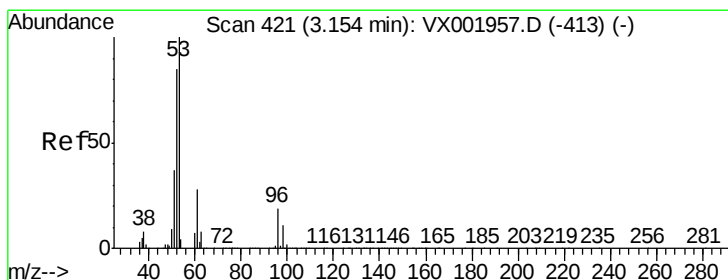
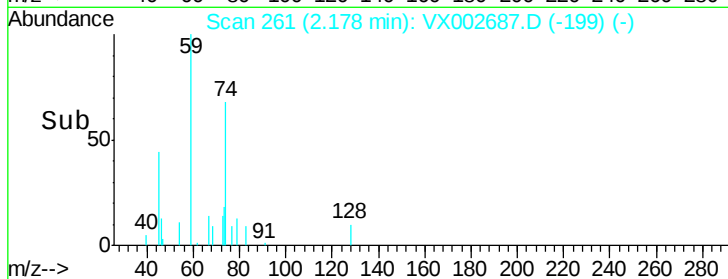


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#14

Acrylonitrile

Concen: 0.05 ug/l

RT: 3.16 min Scan# 422

Delta R.T. -0.00 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

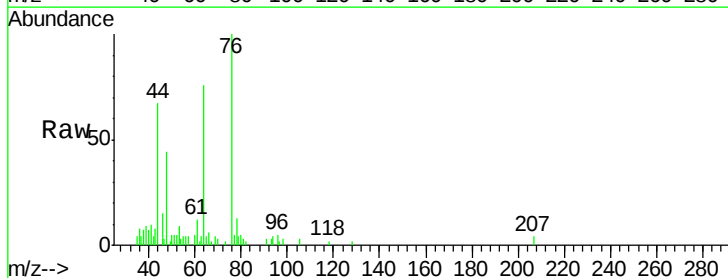
Tgt Ion: 53 Resp: 69

Ion Ratio Lower Upper

53 100

52 204.3 41.5 124.6#

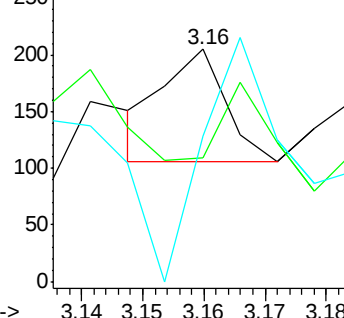
51 294.2 17.9 53.8#



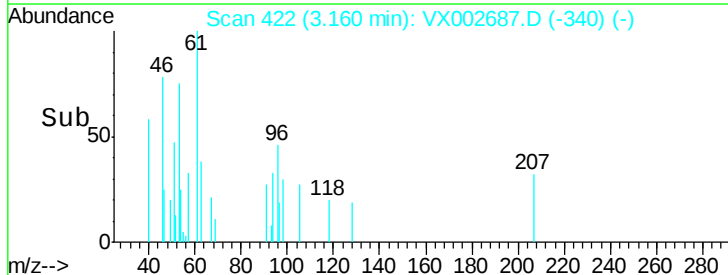
Abundance Ion 53.00 (52.70 to 53.70): VX0

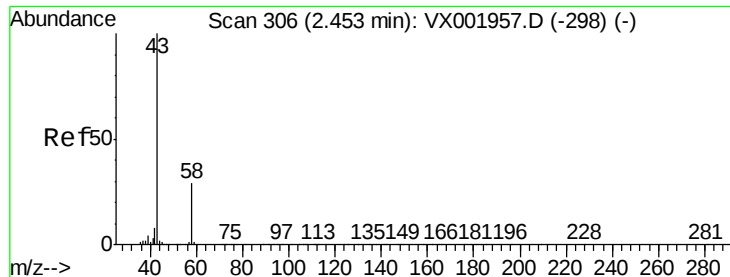
Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



Time-->





#15

Acetone

Concen: 144.10 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.01 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

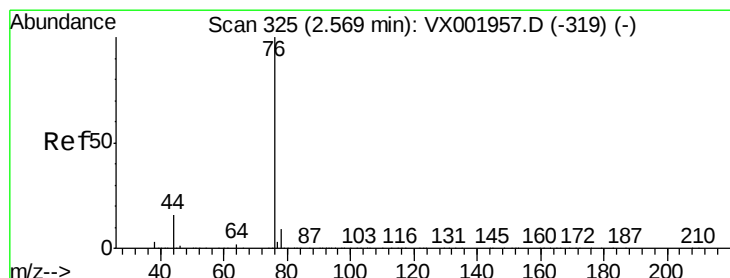
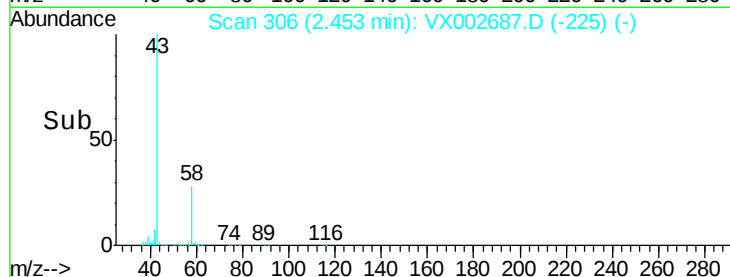
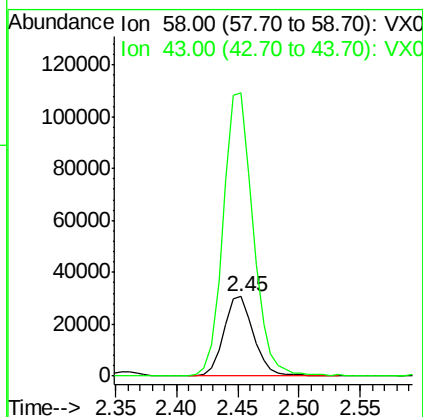
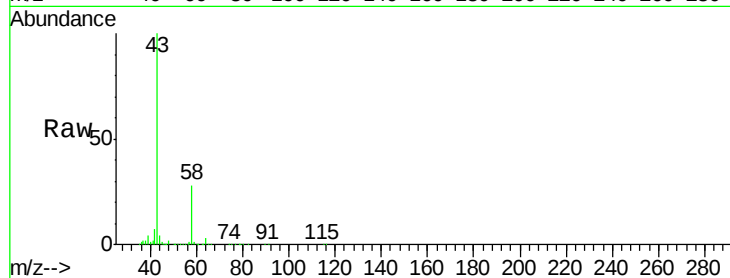
Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 58 Resp: 52191

Ion Ratio Lower Upper

58 100

43 354.6 278.8 418.2



#16

Carbon Disulfide

Concen: 1.13 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.13 min

Lab File: VX002687.D

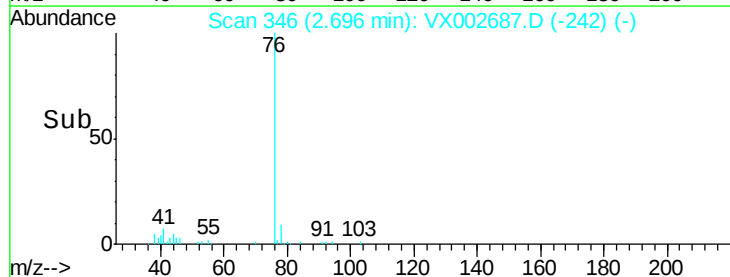
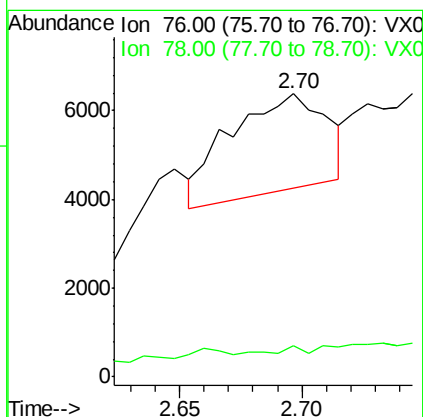
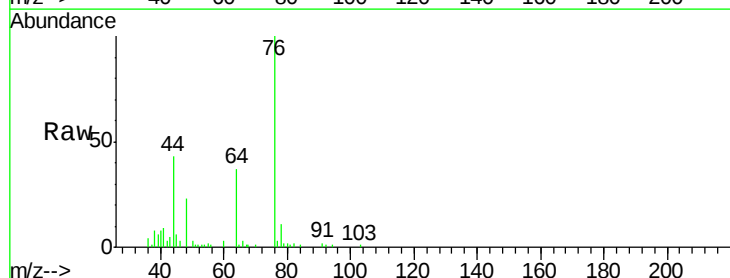
Acq: 18 Jun 2018 18:48

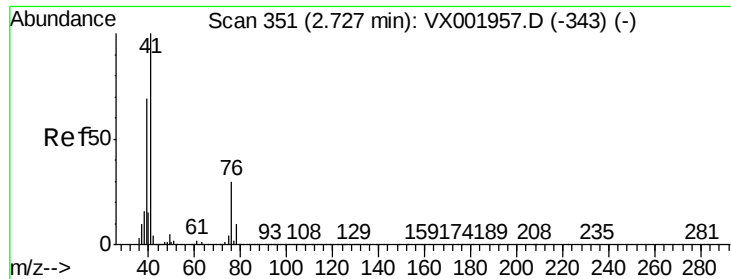
Tgt Ion: 76 Resp: 6059

Ion Ratio Lower Upper

76 100

78 10.4 7.4 11.0

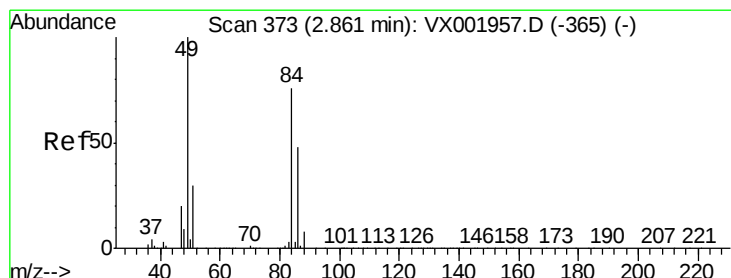
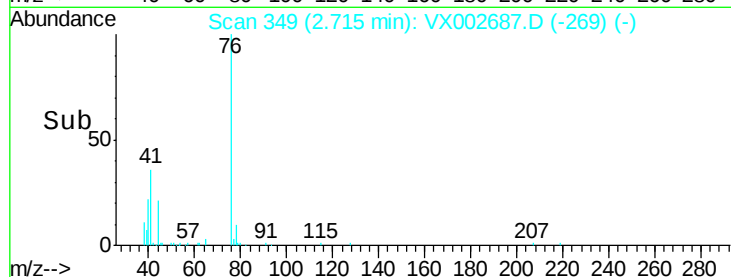
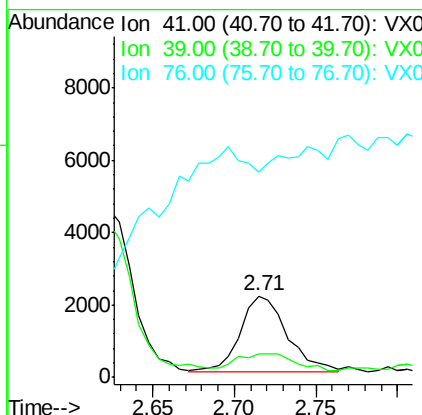
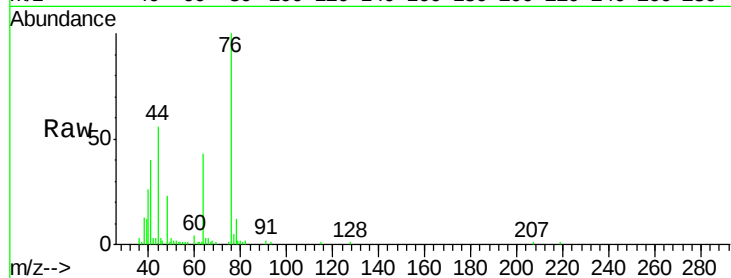




#17  
Allvl chloride  
Concen: 0.98 ug/l  
RT: 2.71 min Scan# 349  
Delta R.T. -0.01 min  
Lab File: VX002687.D  
Acq: 18 Jun 2018 18:48

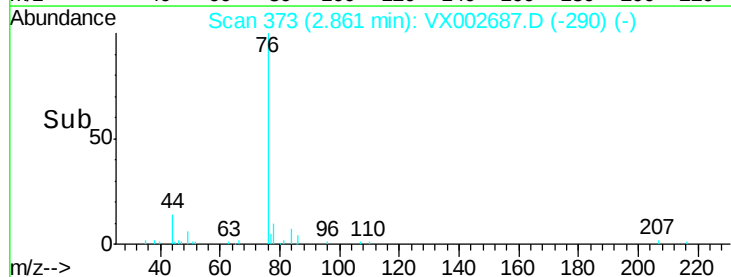
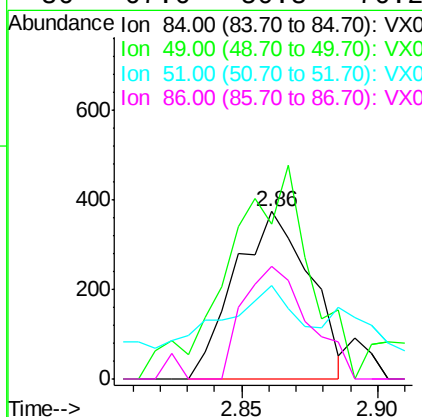
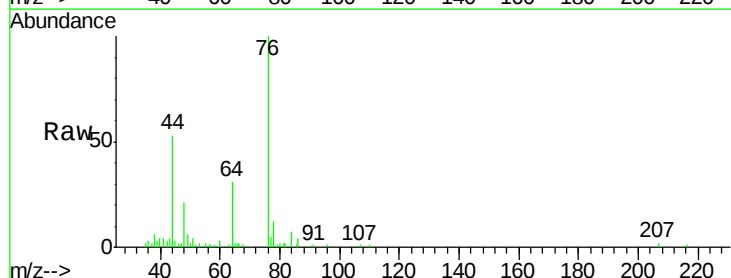
Instrument :  
MSVOA\_X  
ClientSampleId :

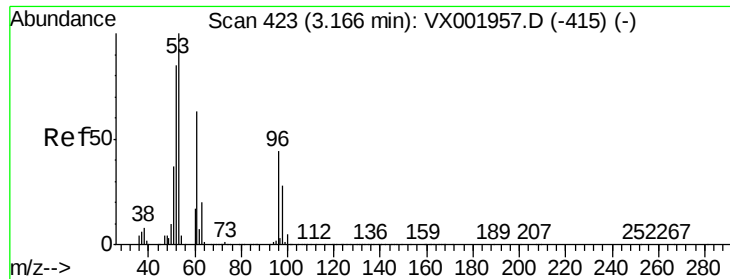
Tot Ion: 41 Resp: 4184  
Ion Ratio Lower Upper  
41 100  
39 22.1 34.6 103.8#  
76 12.6 15.0 45.1#



#18  
Methylene Chloride  
Concen: 0.29 ug/l  
RT: 2.86 min Scan# 373  
Delta R.T. 0.01 min  
Lab File: VX002687.D  
Acq: 18 Jun 2018 18:48

Tgt Ion: 84 Resp: 713  
Ion Ratio Lower Upper  
84 100  
49 78.3 104.7 157.1#  
51 30.0 31.0 46.4#  
86 67.6 50.8 76.2

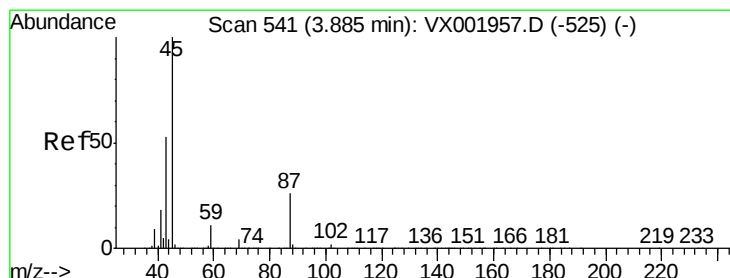
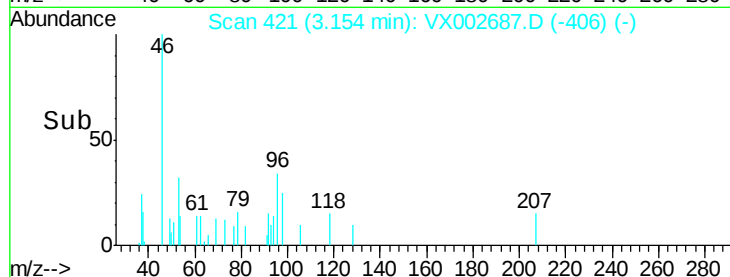
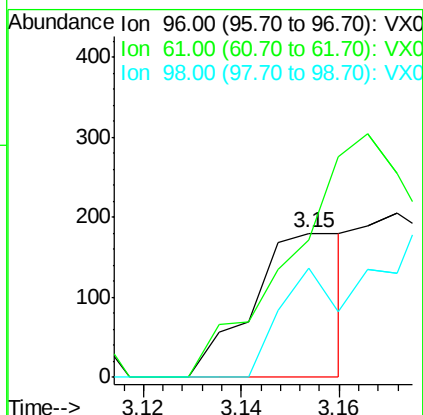
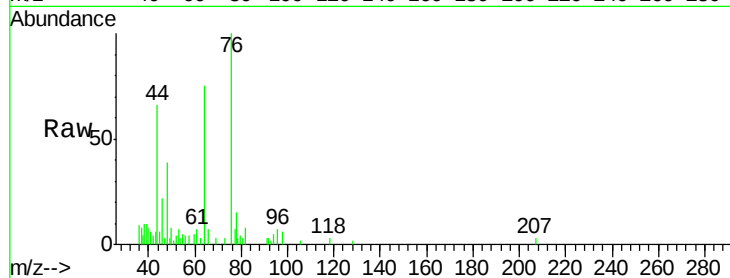




#19  
trans-1,2-Dichloroethene  
Concen: 0.10 ug/l  
RT: 3.15 min Scan# 421  
Delta R.T. -0.01 min  
Lab File: VX002687.D  
Acq: 18 Jun 2018 18:48

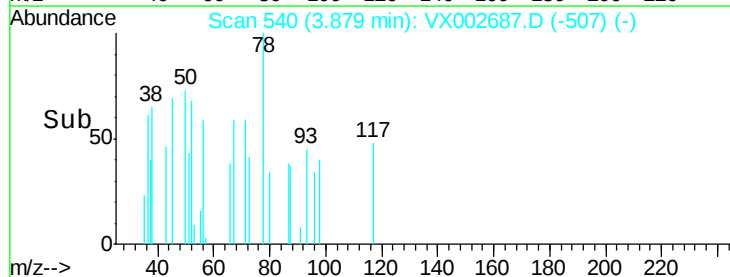
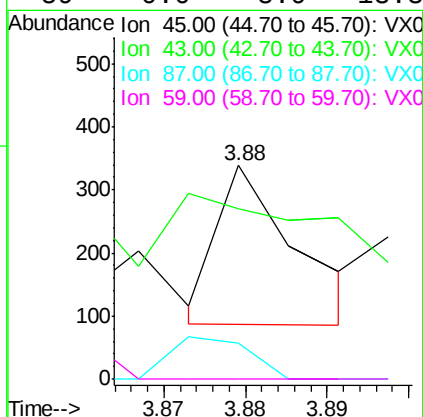
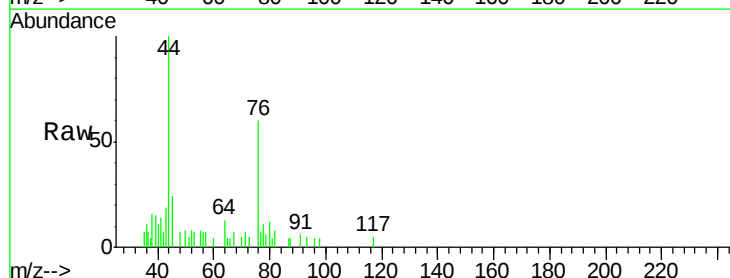
Instrument :  
MSVOA\_X  
ClientSampled :

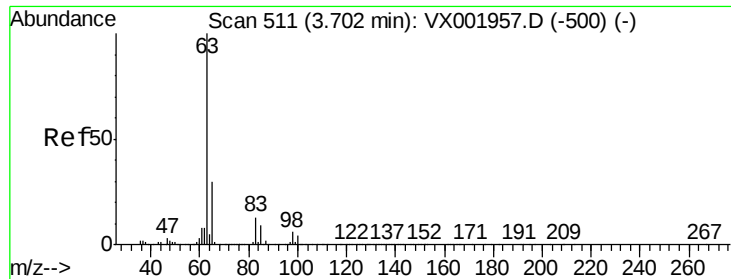
Tot Ion: 96 Resp: 239  
Ion Ratio Lower Upper  
96 100  
61 95.0 114.6 172.0#  
98 75.6 51.3 76.9



#20  
Diisopropyl ether  
Concen: 0.02 ug/l  
RT: 3.88 min Scan# 540  
Delta R.T. -0.00 min  
Lab File: VX002687.D  
Acq: 18 Jun 2018 18:48

Tgt Ion: 45 Resp: 169  
Ion Ratio Lower Upper  
45 100  
43 7.1 45.6 68.4#  
87 25.4 20.7 31.1  
59 0.0 8.9 13.3#





#21

1,1-Dichloroethane

Concen: 0.18 ug/l

RT: 3.70 min Scan# 510

Delta R.T. -0.00 min

Lab File: VX002687.D

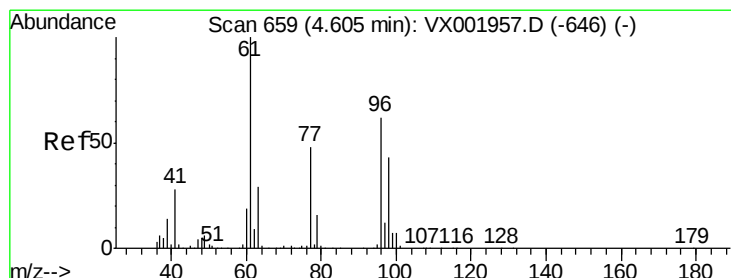
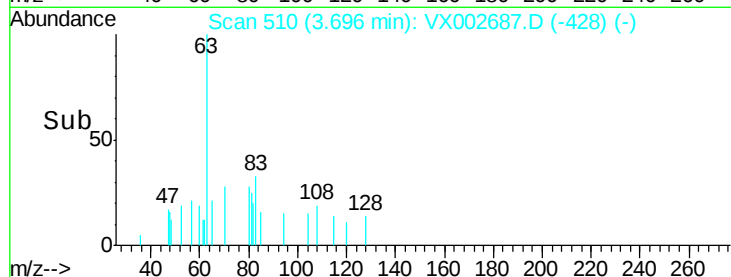
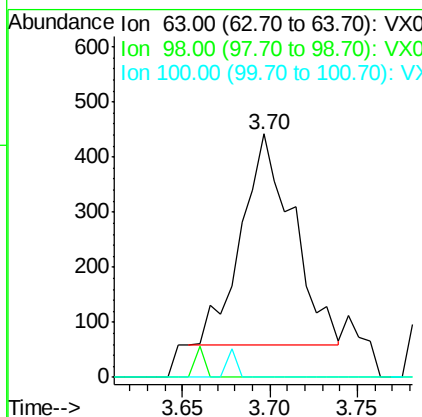
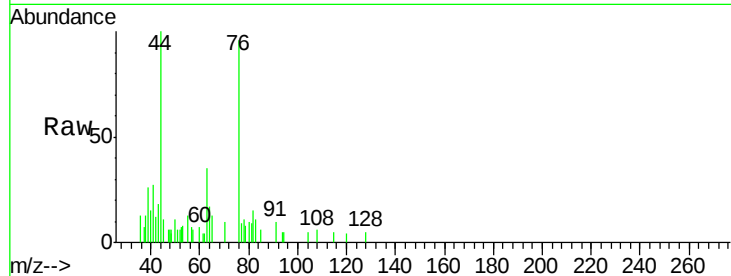
Acq: 18 Jun 2018 18:48

Instrument :

MSVOA\_X

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 63    | Resp: | 784   |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 0.0   | 3.1   | 9.3#  |
| 100      | 0.0   | 2.2   | 6.6#  |



#22

cis-1,2-Dichloroethene

Concen: 0.14 ug/l

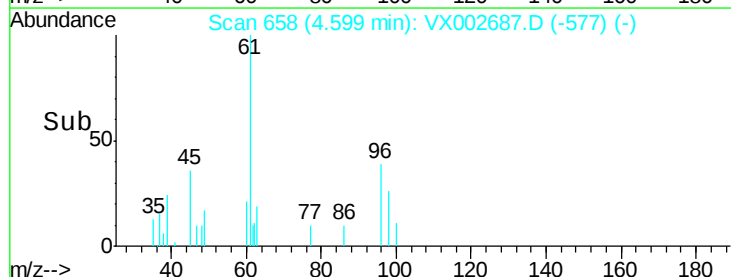
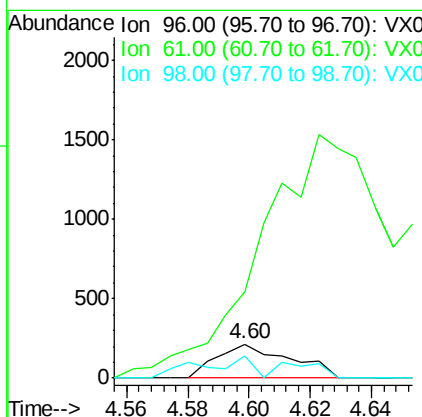
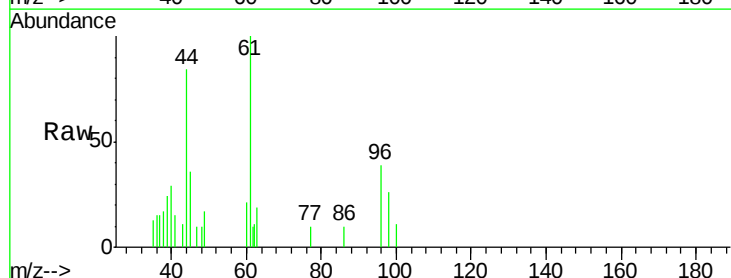
RT: 4.60 min Scan# 658

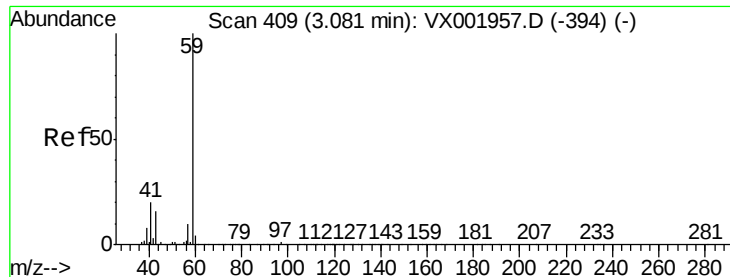
Delta R.T. -0.01 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 356    |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 0.0   | 160.2 | 240.2# |
| 98       | 14.6  | 54.1  | 81.1#  |





#23

tert-Butyl Alcohol

Concen: 11.34 ug/l

RT: 3.08 min Scan# 409

Delta R.T. -0.02 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

Instrument :

MSVOA\_X

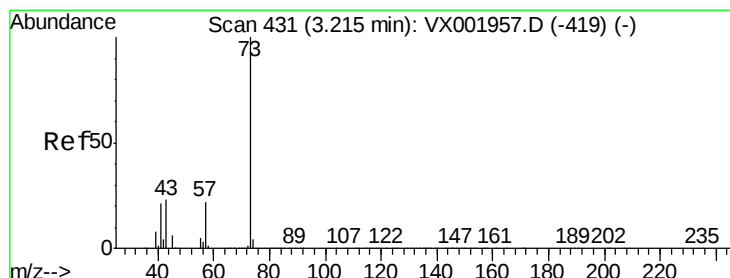
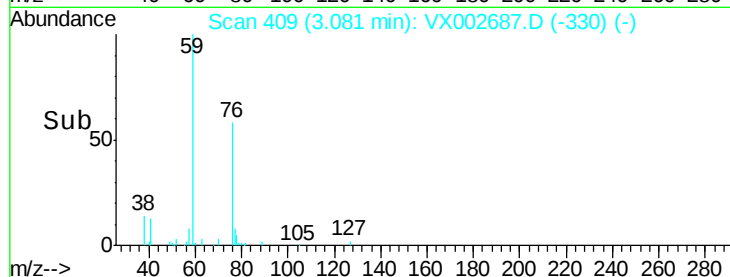
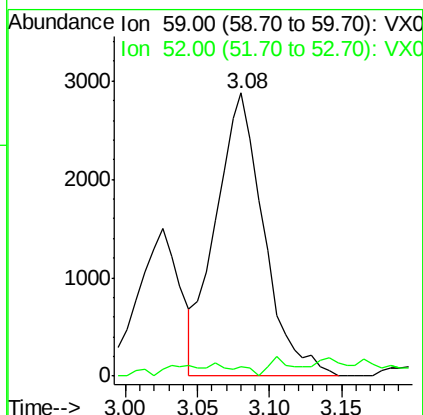
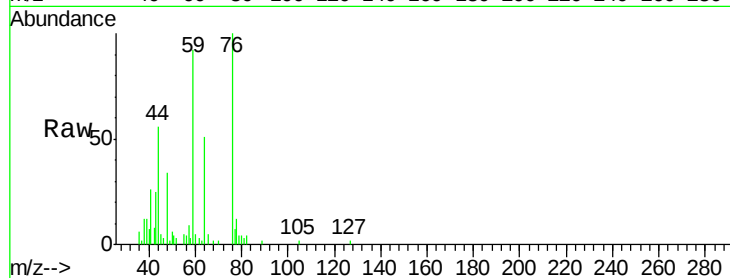
ClientSampleId :

Tot Ion: 59 Resp: 6707

Ion Ratio Lower Upper

59 100

52 1.0 0.2 0.2#



#24

Methyl tert-Butyl Ether

Concen: 5.20 ug/l

RT: 3.21 min Scan# 431

Delta R.T. -0.00 min

Lab File: VX002687.D

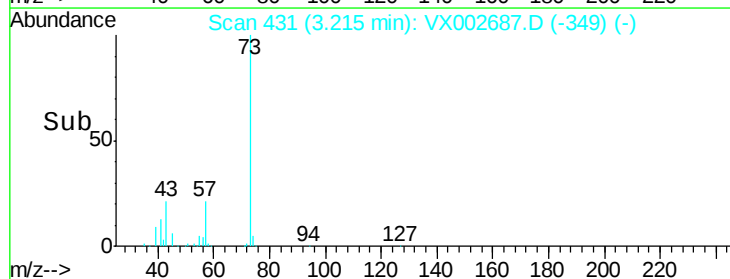
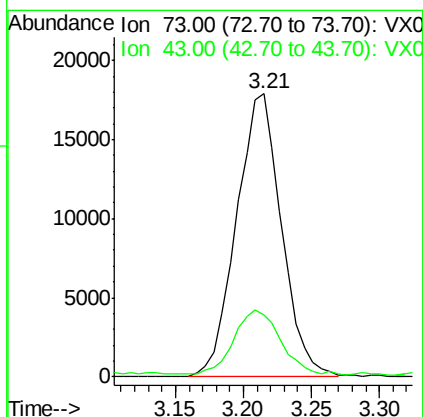
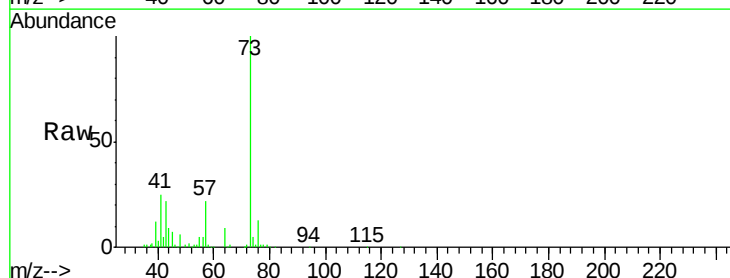
Acq: 18 Jun 2018 18:48

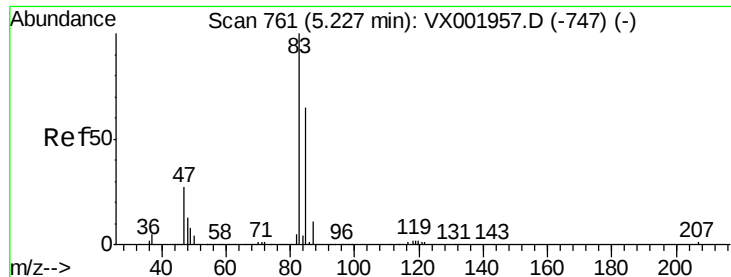
Tgt Ion: 73 Resp: 41451

Ion Ratio Lower Upper

73 100

43 23.6 19.0 28.4

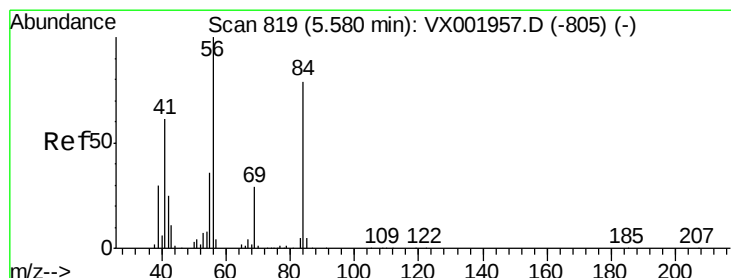
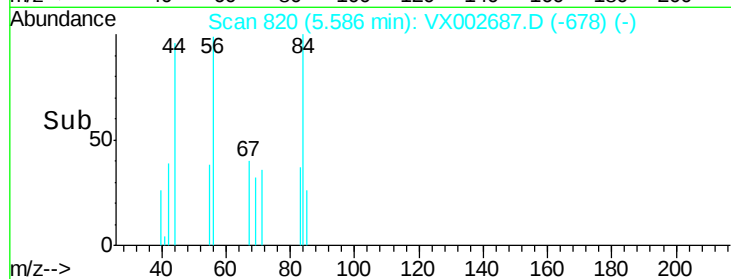
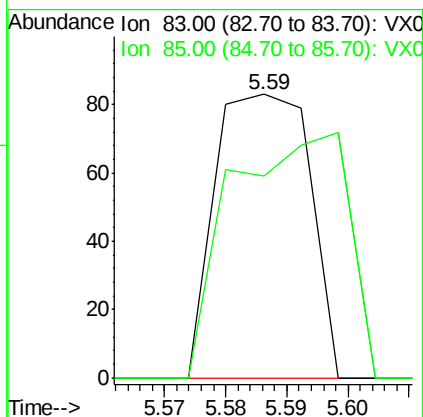
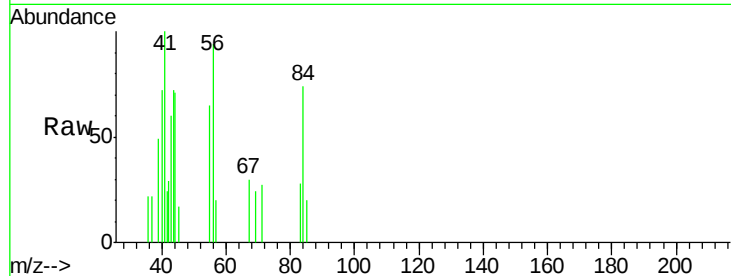




#25  
Chloroform  
Concen: 0.02 ug/l  
RT: 5.59 min Scan# 820  
Delta R.T. 0.37 min  
Lab File: VX002687.D  
Acq: 18 Jun 2018 18:48

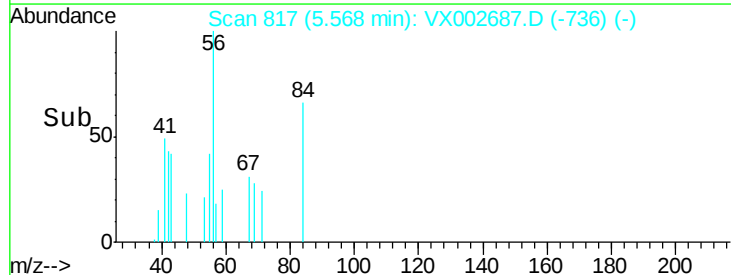
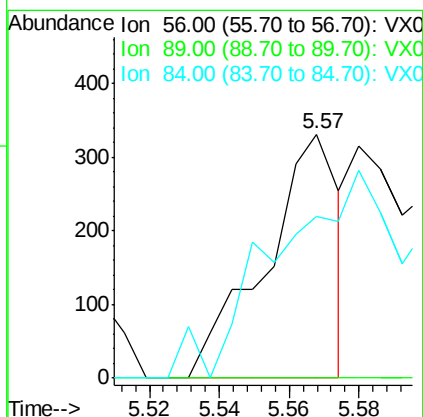
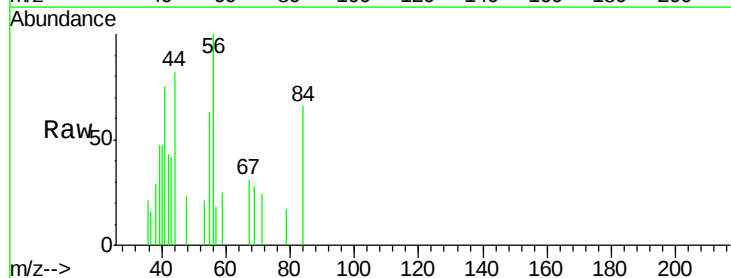
Instrument :  
MSVOA\_X  
ClientSampleId :

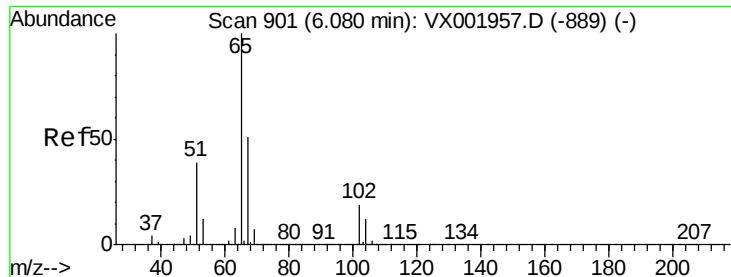
Tot Ion: 83 Resp: 89  
Ion Ratio Lower Upper  
83 100  
85 71.1 51.9 77.9



#26  
Cyclohexane  
Concen: 0.13 ug/l  
RT: 5.57 min Scan# 817  
Delta R.T. -0.01 min  
Lab File: VX002687.D  
Acq: 18 Jun 2018 18:48

Tgt Ion: 56 Resp: 487  
Ion Ratio Lower Upper  
56 100  
89 0.0 0.1 0.1#  
84 137.0 64.9 97.3#





#27

1,2-Dichloroethane-d4

Concen: 30.71 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

Instrument :

MSVOA\_X

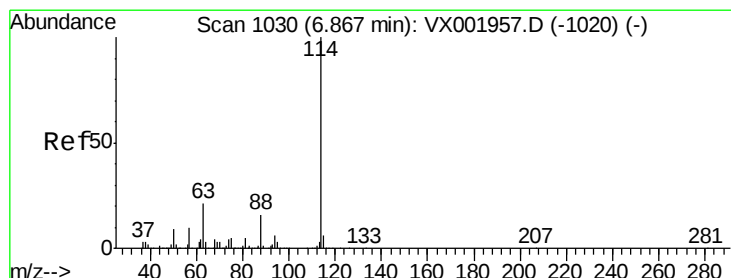
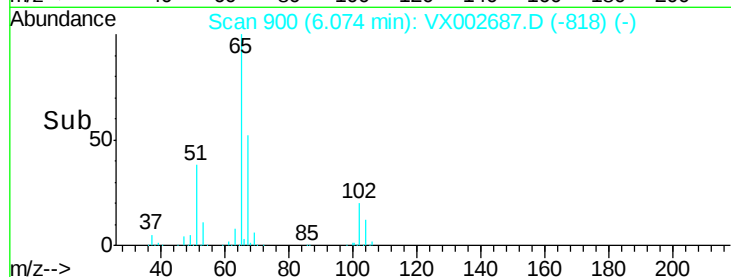
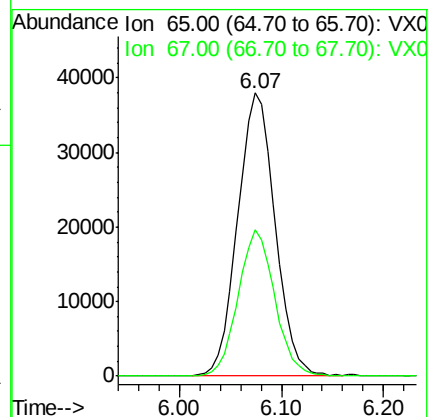
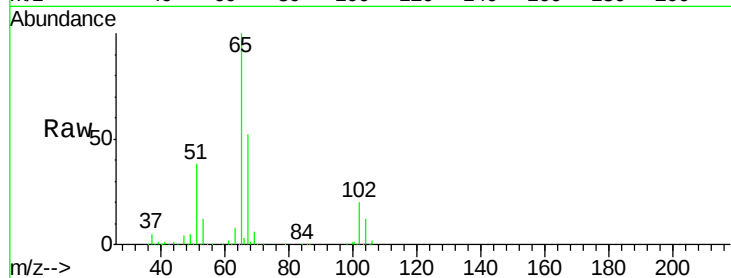
ClientSampleId :

Tot Ion: 65 Resp: 96850

Ion Ratio Lower Upper

65 100

67 50.6 40.9 61.3



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

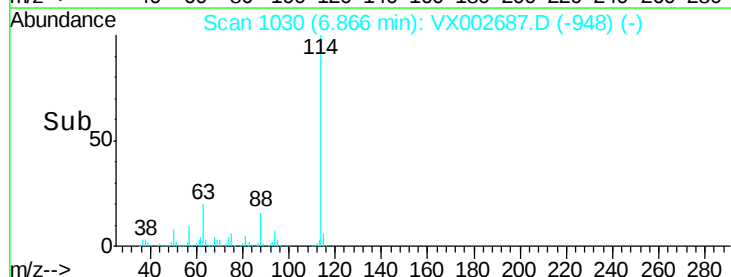
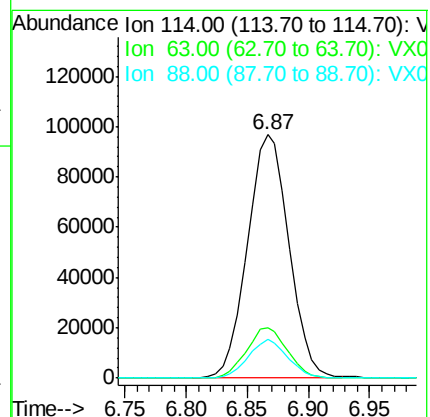
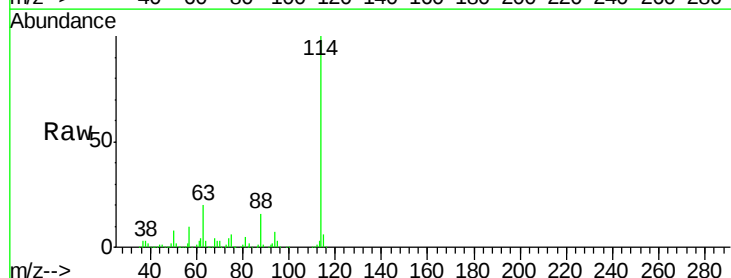
Tgt Ion: 114 Resp: 228424

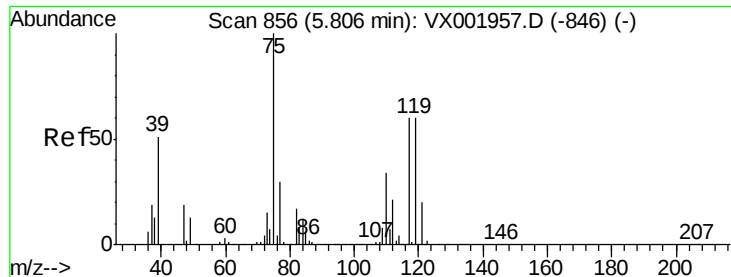
Ion Ratio Lower Upper

114 100

63 20.4 17.1 25.7

88 15.1 12.6 19.0

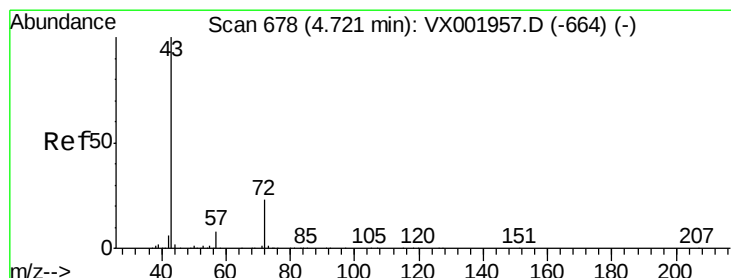
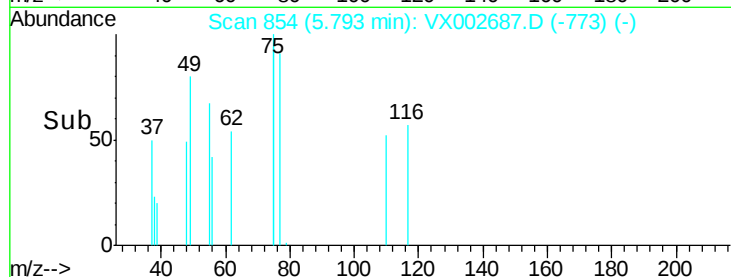
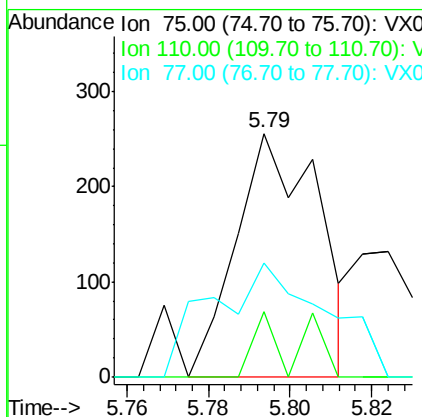
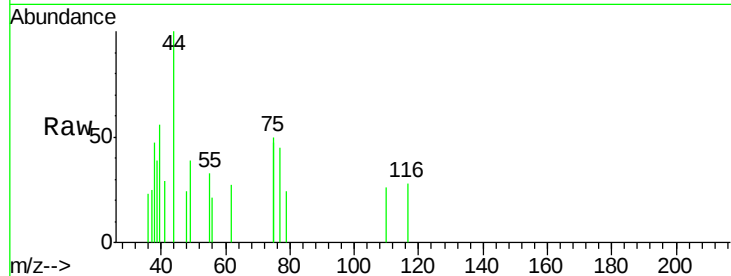




#29  
 1,1-Dichloropropene  
 Concen: 0.12 ug/l  
 RT: 5.79 min Scan# 854  
 Delta R.T. -0.01 min  
 Lab File: VX002687.D  
 Acq: 18 Jun 2018 18:48

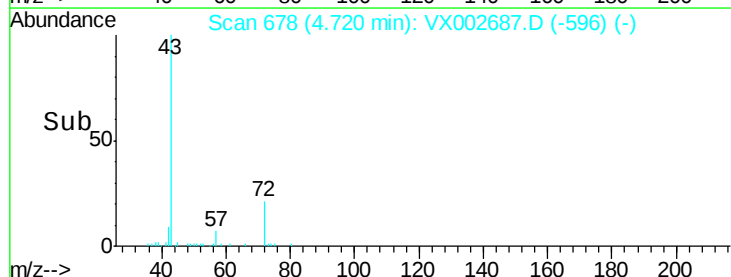
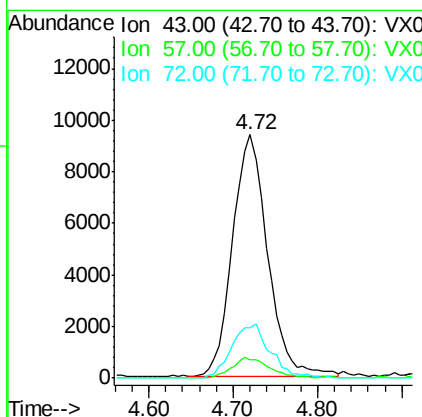
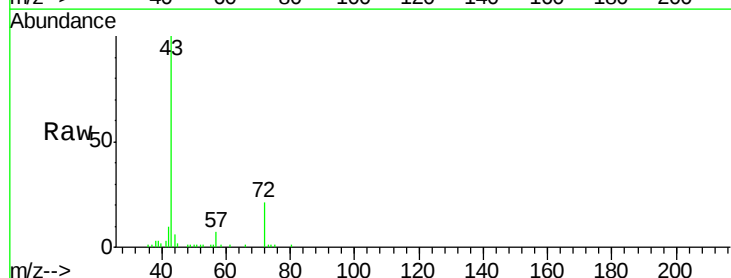
Instrument :  
 MSVOA\_X  
 ClientSampleId :

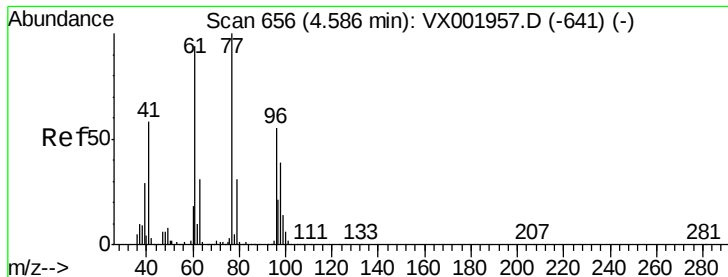
Tot Ion: 75 Resp: 361  
 Ion Ratio Lower Upper  
 75 100  
 110 6.9 0.0 71.4  
 77 41.6 0.0 60.6



#30  
 2-Butanone  
 Concen: 14.95 ug/l  
 RT: 4.72 min Scan# 678  
 Delta R.T. -0.00 min  
 Lab File: VX002687.D  
 Acq: 18 Jun 2018 18:48

Tgt Ion: 43 Resp: 26388  
 Ion Ratio Lower Upper  
 43 100  
 57 8.9 6.1 9.1  
 72 24.6 18.1 27.1





#31

2,2-Dichloropropane

Concen: 0.01 ug/l

RT: 4.59 min Scan# 656

Delta R.T. -0.00 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

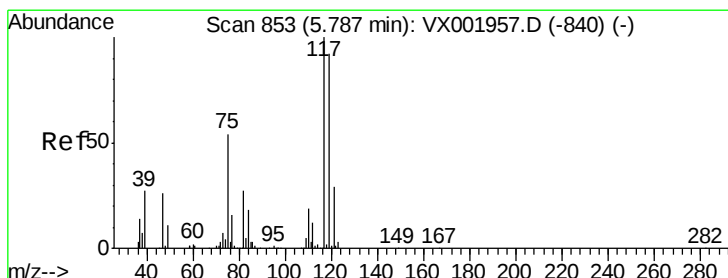
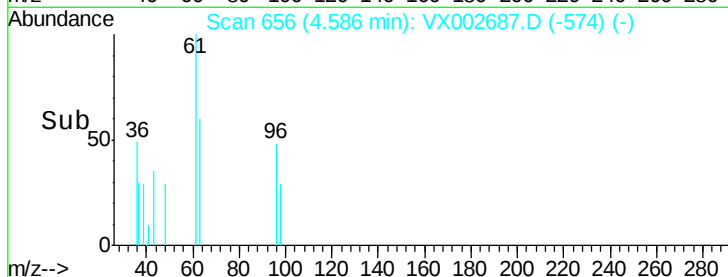
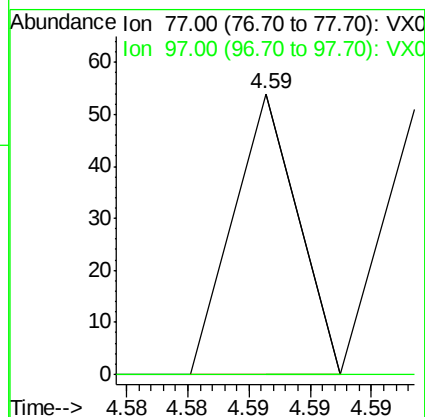
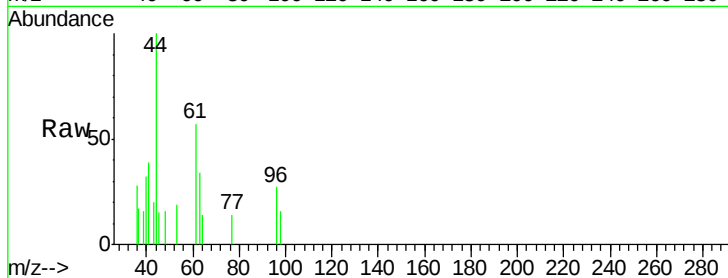
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 77 Resp: 20

Ion Ratio Lower Upper

77 100

97 0.0 18.7 28.1#



#33

Carbon Tetrachloride

Concen: 0.02 ug/l

RT: 5.78 min Scan# 851

Delta R.T. -0.01 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

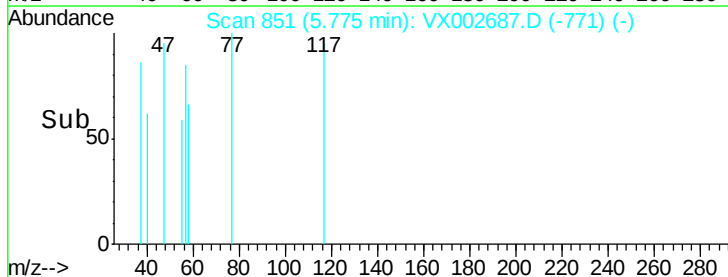
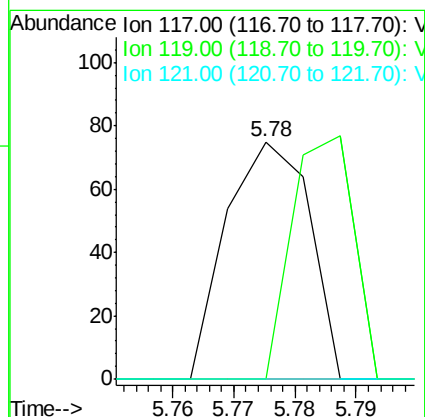
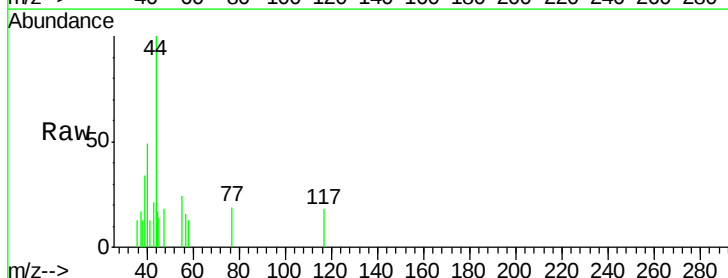
Tgt Ion: 117 Resp: 71

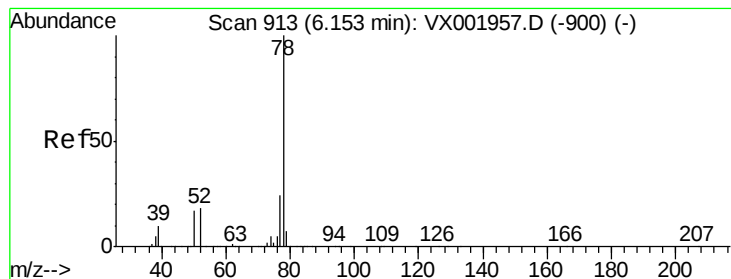
Ion Ratio Lower Upper

117 100

119 0.0 73.3 109.9#

121 0.0 23.6 35.4#





#34

Benzene

Concen: 10.26 ug/l

RT: 6.15 min Scan# 912

Delta R.T. -0.00 min

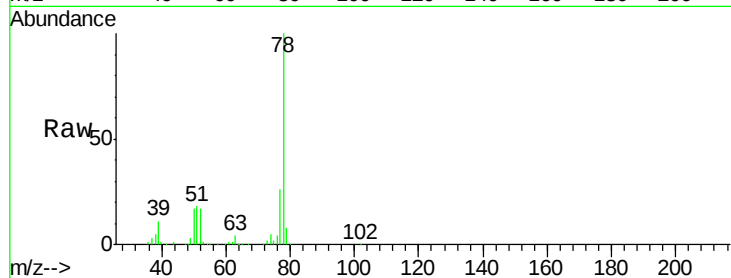
Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 78 Resp: 93707

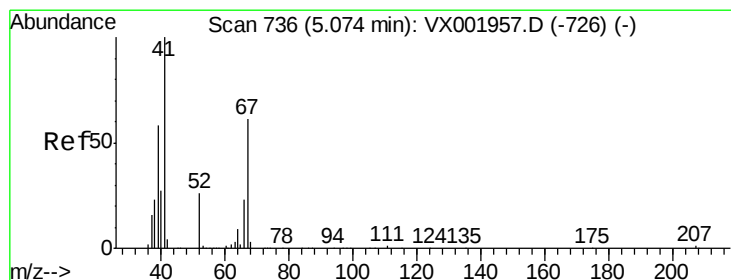
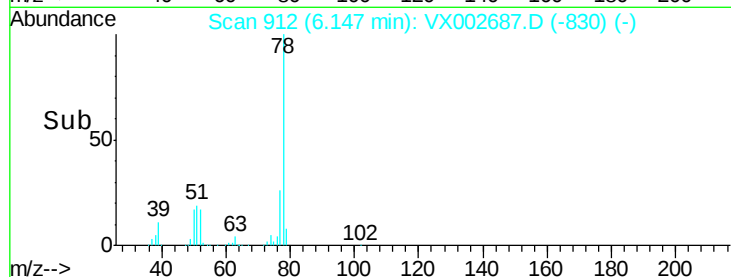
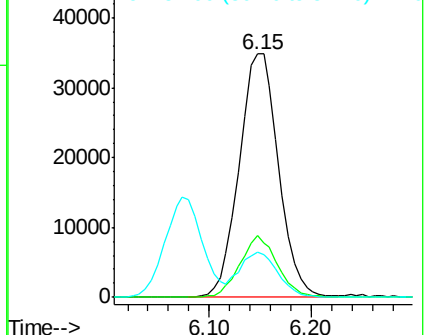
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 78  | 100   |       |       |
| 77  | 25.4  | 19.4  | 29.0  |
| 51  | 18.5  | 13.8  | 20.6  |



Abundance Ion 78.10 (77.80 to 78.80): VX0

Ion 77.00 (76.70 to 77.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#35

Methacrylonitrile

Concen: 0.03 ug/l

RT: 5.07 min Scan# 735

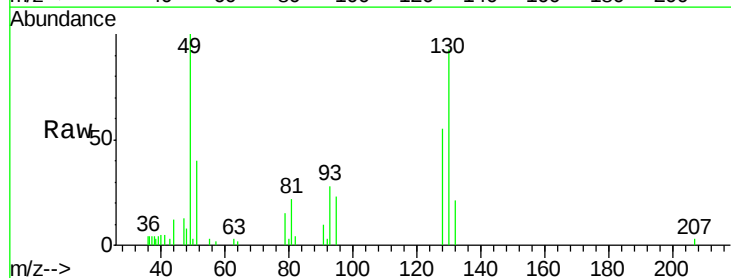
Delta R.T. -0.00 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

Tgt Ion: 41 Resp: 67

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 41  | 100   |       |       |
| 39  | 0.0   | 28.8  | 86.5# |
| 67  | 0.0   | 30.4  | 91.2# |
| 52  | 0.0   | 13.0  | 39.0# |

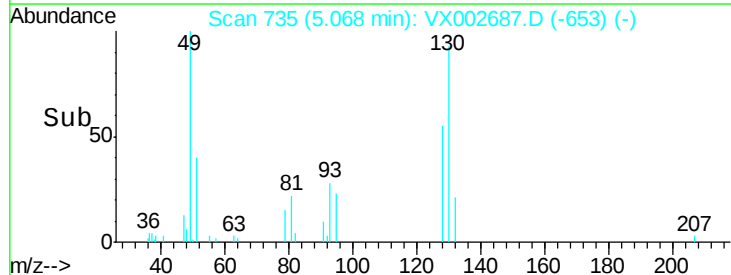
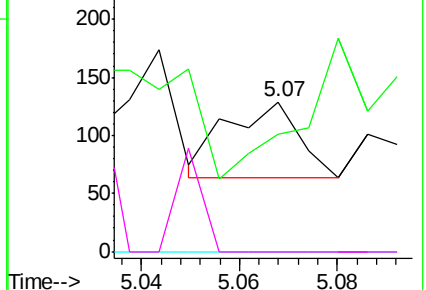


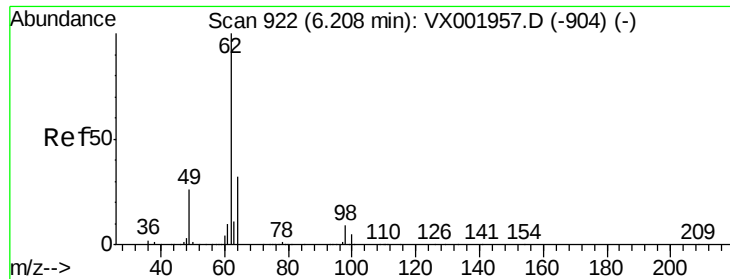
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#36

1,2-Dichloroethane

Concen: 0.13 ug/l

RT: 6.20 min Scan# 921

Delta R.T. -0.00 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

Instrument :

MSVOA\_X

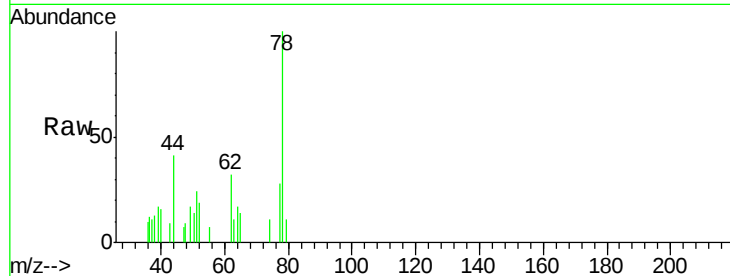
ClientSampleId :

Tot Ion: 62 Resp: 460

Ion Ratio Lower Upper

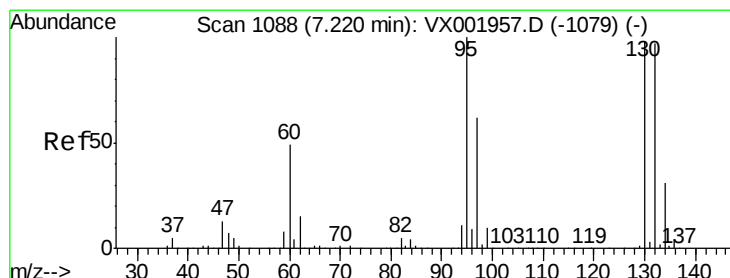
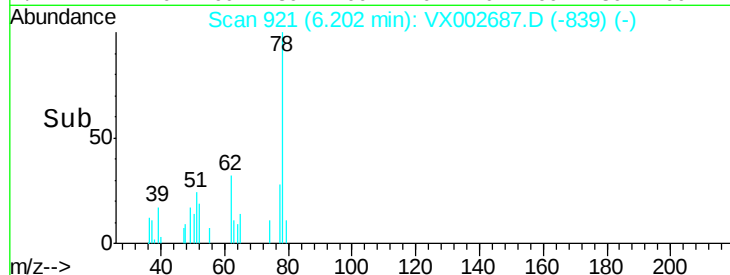
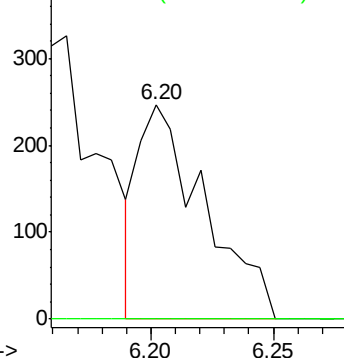
62 100

98 0.0 6.5 9.7#



Abundance Ion 62.00 (61.70 to 62.70): VX0

Ion 98.00 (97.70 to 98.70): VX0



#37

Trichloroethene

Concen: 0.18 ug/l

RT: 7.23 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VX002687.D

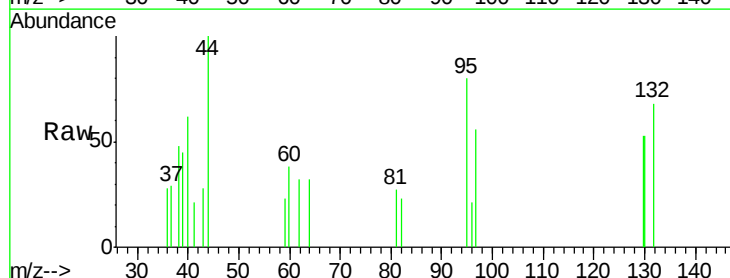
Acq: 18 Jun 2018 18:48

Tgt Ion: 130 Resp: 483

Ion Ratio Lower Upper

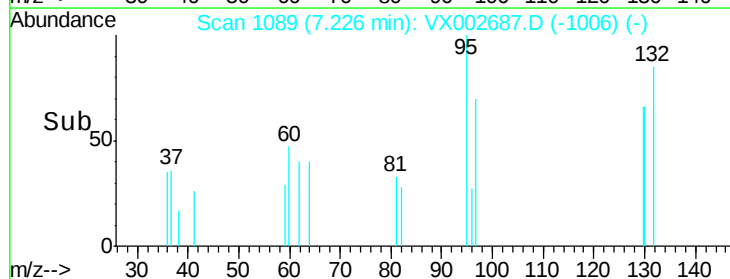
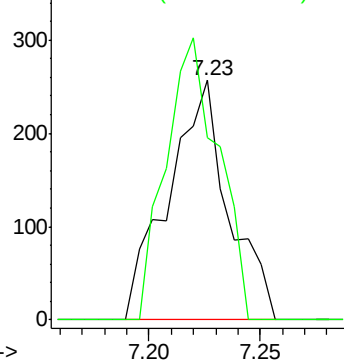
130 100

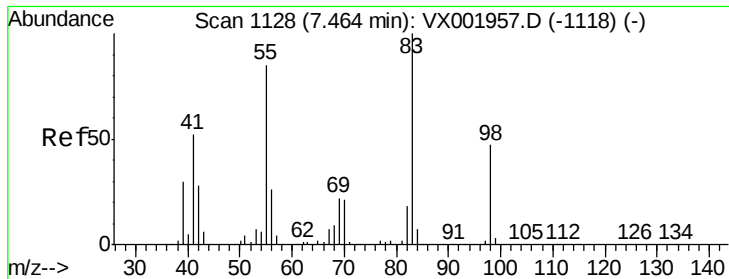
95 75.9 81.5 122.3#



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VX0

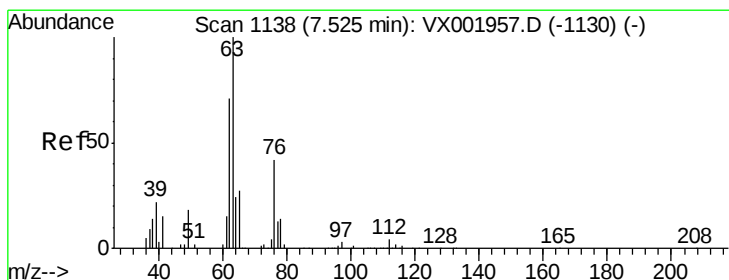
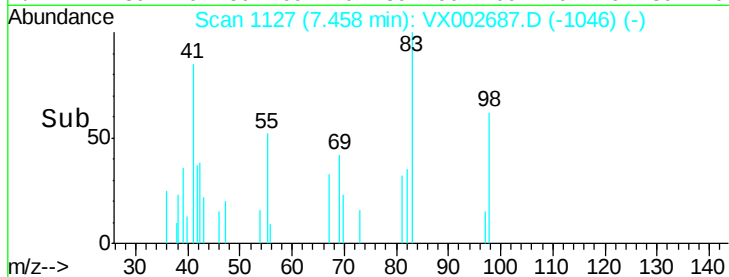
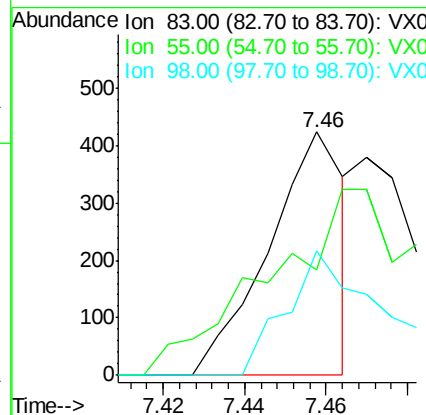
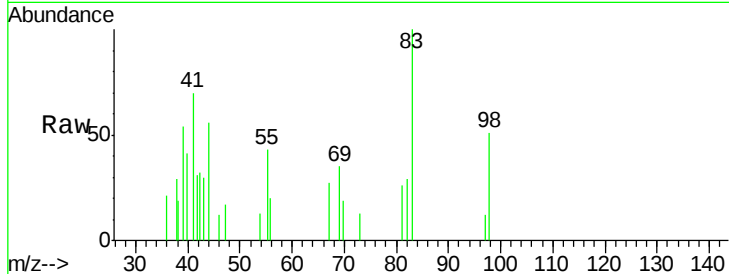




#38  
Methvlcvclohexane  
Concen: 0.15 ug/l  
RT: 7.46 min Scan# 1127  
Delta R.T. -0.01 min  
Lab File: VX002687.D  
Acq: 18 Jun 2018 18:48

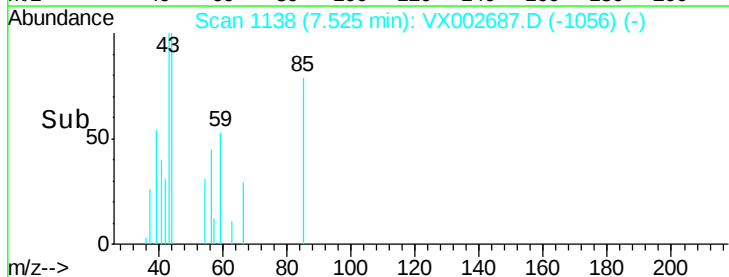
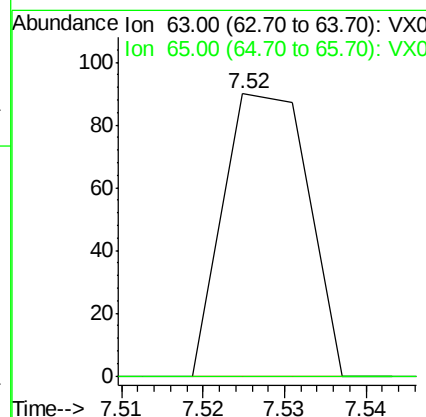
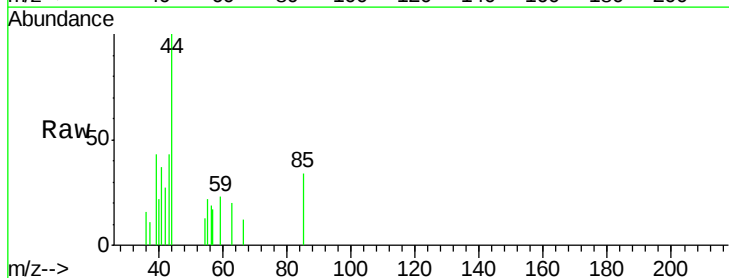
Instrument :  
MSVOA\_X  
ClientSampled :

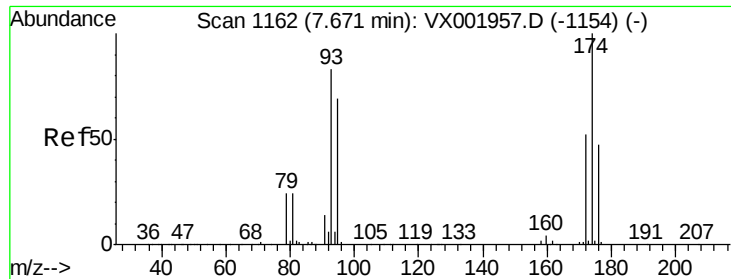
Tot Ion: 83 Resp: 552  
Ion Ratio Lower Upper  
83 100  
55 149.6 40.6 121.8#  
98 59.6 23.5 70.5



#39  
1,2-Dichloropropane  
Concen: 0.03 ug/l  
RT: 7.52 min Scan# 1138  
Delta R.T. -0.00 min  
Lab File: VX002687.D  
Acq: 18 Jun 2018 18:48

Tgt Ion: 63 Resp: 65  
Ion Ratio Lower Upper  
63 100  
65 0.0 23.3 34.9#





#40

Dibromomethane

Concen: 0.06 ug/l

RT: 7.67 min Scan# 1161

Delta R.T. -0.00 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

Instrument :

MSVOA\_X

ClientSampleId :

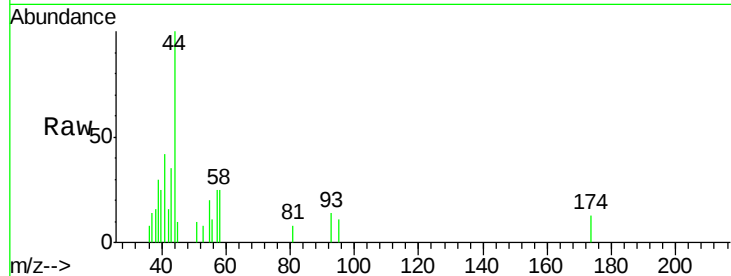
Tot Ion: 93 Resp: 97

Ion Ratio Lower Upper

93 100

95 0.0 0.0 162.6

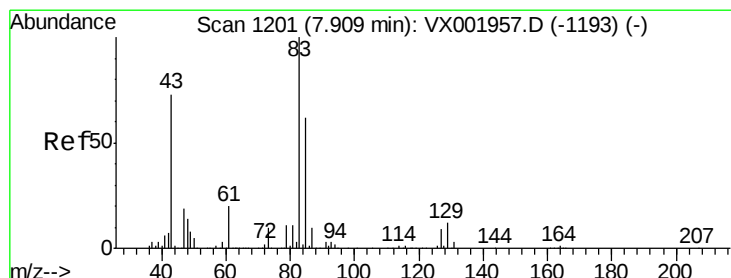
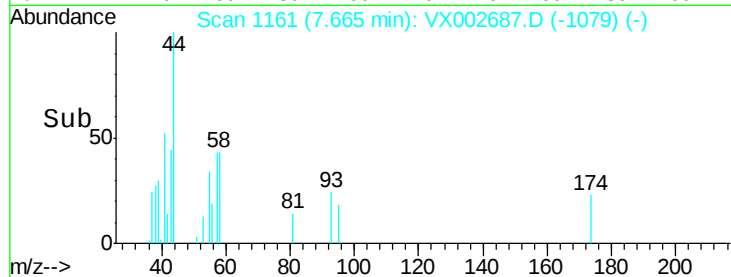
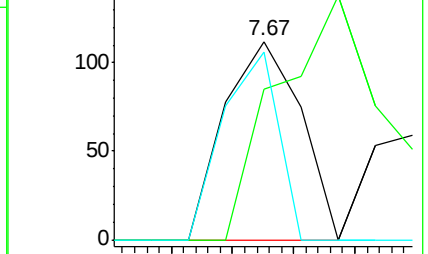
174 69.1 0.0 229.4



Abundance Ion 93.00 (92.70 to 93.70): VX0

Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): V



#41

Bromodichloromethane

Concen: 0.01 ug/l

RT: 7.91 min Scan# 1201

Delta R.T. 0.01 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

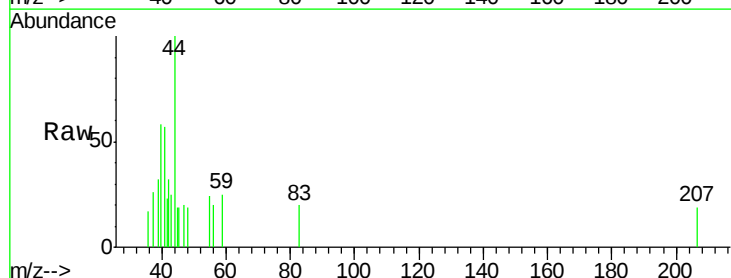
Tgt Ion: 83 Resp: 41

Ion Ratio Lower Upper

83 100

85 0.0 49.8 74.8#

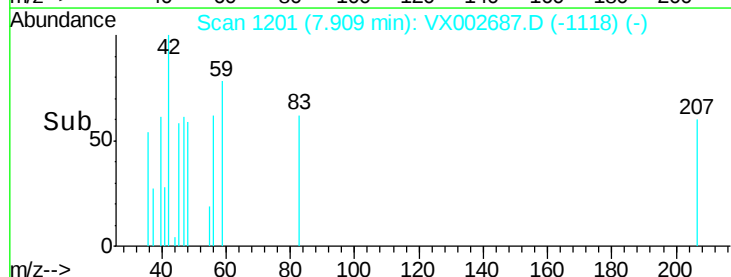
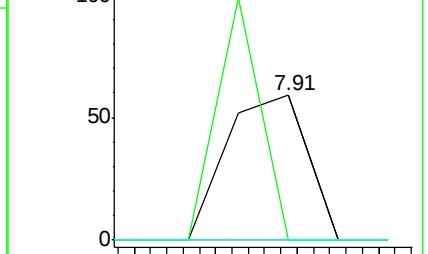
127 0.0 7.3 10.9#

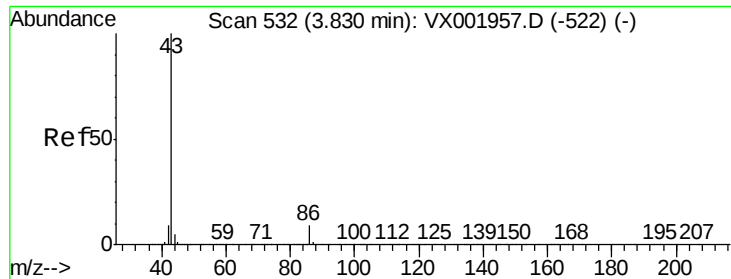


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

Ion 127.00 (126.70 to 127.70): V





#42

Vinyl Acetate

Concen: 0.07 ug/l

RT: 3.83 min Scan# 532

Delta R.T. -0.00 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

Instrument :

MSVOA\_X

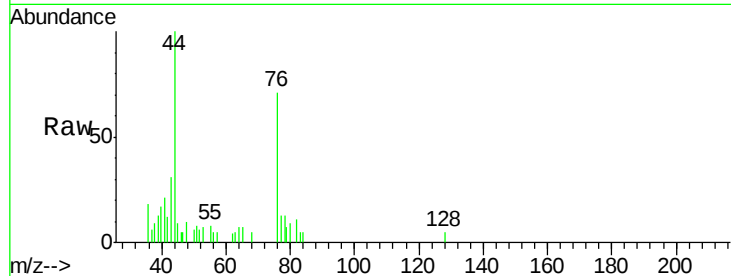
ClientSampled :

Tot Ion: 43 Resp: 478

Ion Ratio Lower Upper

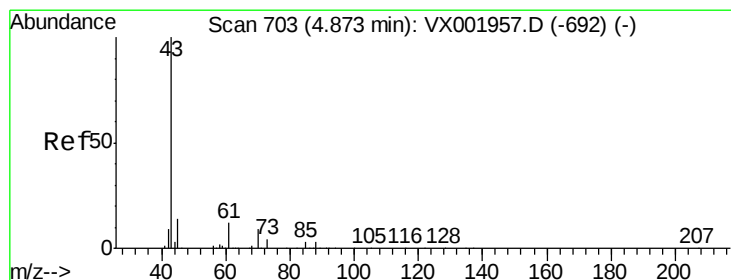
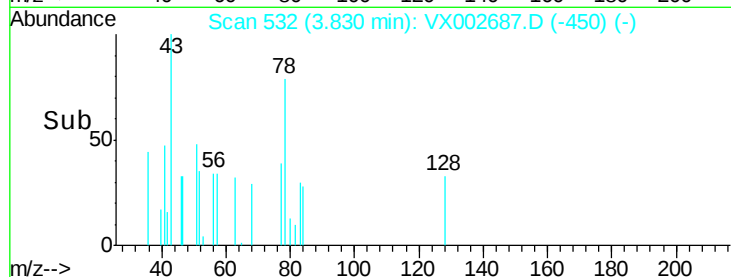
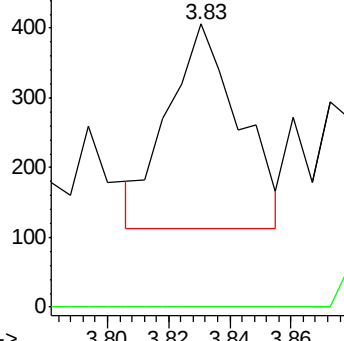
43 100

86 0.0 6.7 10.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



#43

Ethyl Acetate

Concen: 0.03 ug/l

RT: 4.89 min Scan# 706

Delta R.T. 0.02 min

Lab File: VX002687.D

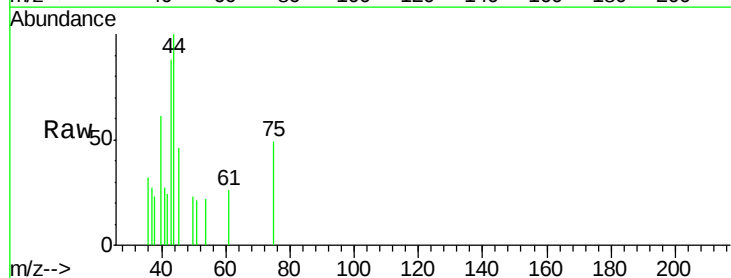
Acq: 18 Jun 2018 18:48

Tgt Ion: 43 Resp: 109

Ion Ratio Lower Upper

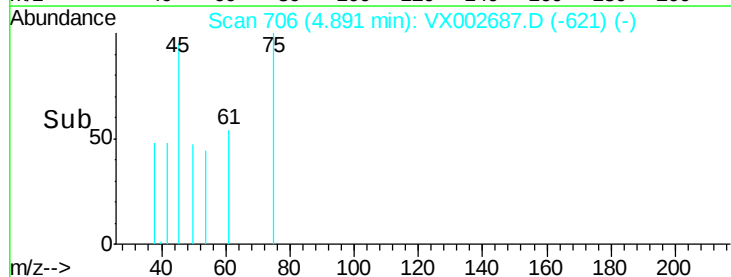
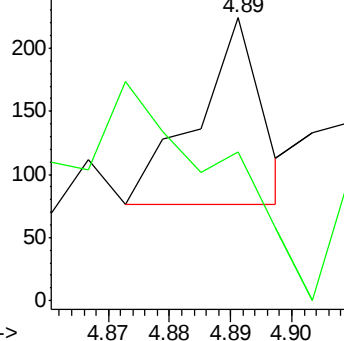
43 100

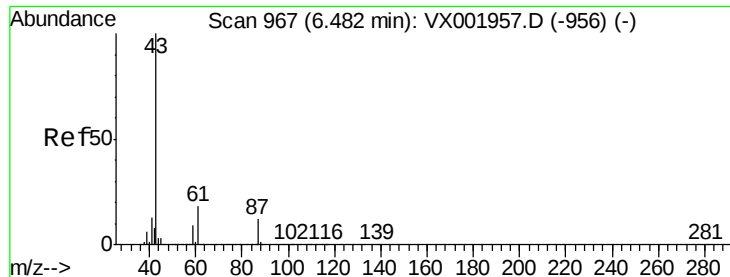
45 196.3 11.0 16.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



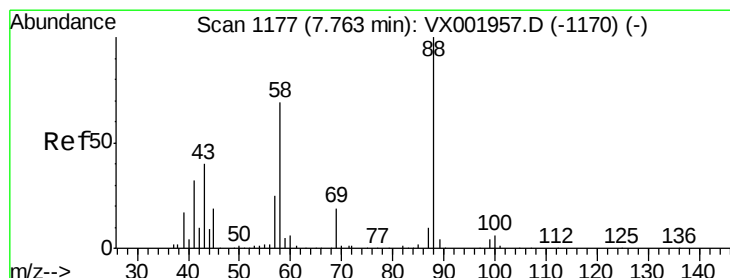
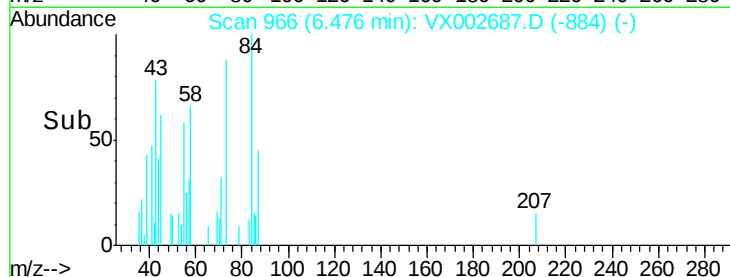
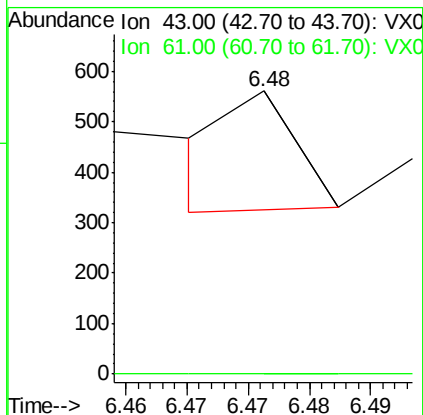
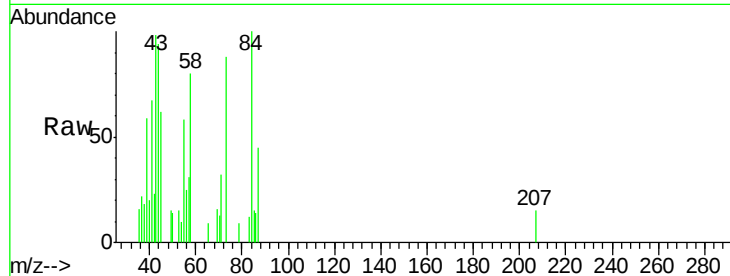


#44

Isopropyl Acetate  
 Concen: 0.02 ug/l  
 RT: 6.48 min Scan# 966  
 Delta R.T. -0.00 min  
 Lab File: VX002687.D  
 Acq: 18 Jun 2018 18:48

Instrument :  
 MSVOA\_X  
 ClientSampled :

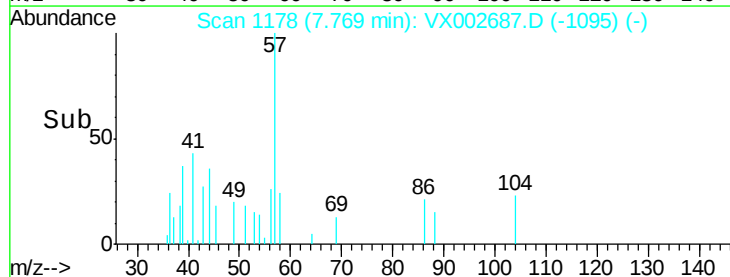
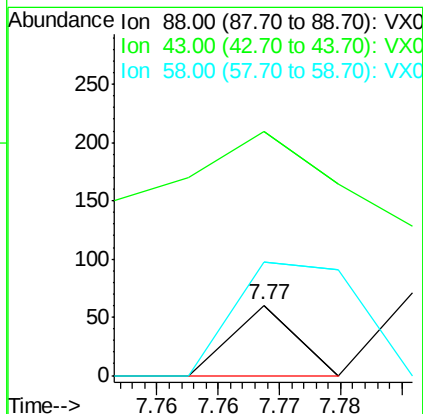
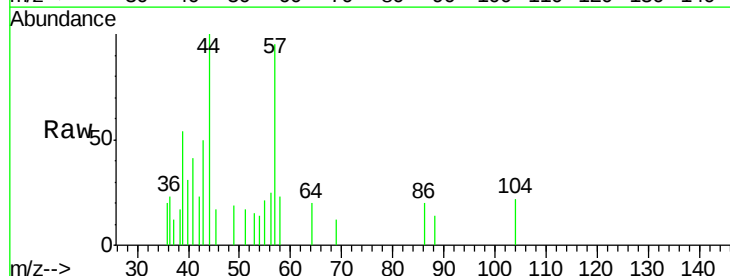
Tot Ion: 43 Resp: 88  
 Ion Ratio Lower Upper  
 43 100  
 61 0.0 14.5 21.7#

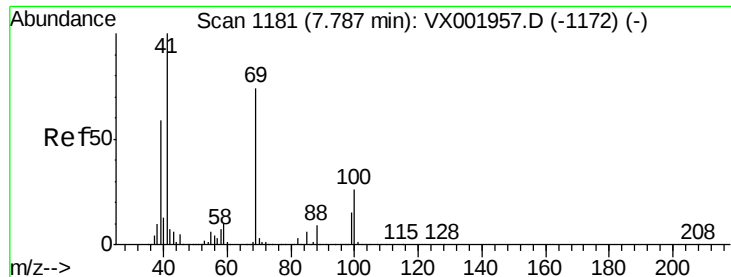


#45

1,4-Dioxane  
 Concen: 0.40 ug/l  
 RT: 7.77 min Scan# 1178  
 Delta R.T. 0.01 min  
 Lab File: VX002687.D  
 Acq: 18 Jun 2018 18:48

Tgt Ion: 88 Resp: 22  
 Ion Ratio Lower Upper  
 88 100  
 43 1200.0 43.2 64.8#  
 58 313.6 60.2 90.2#

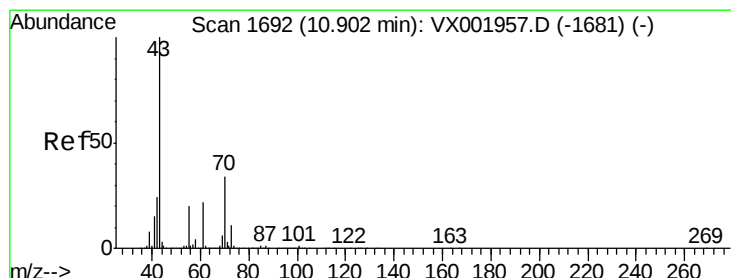
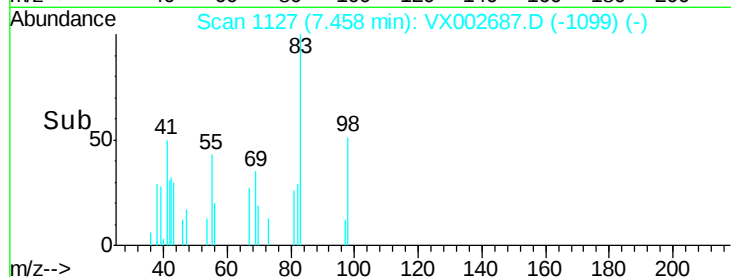
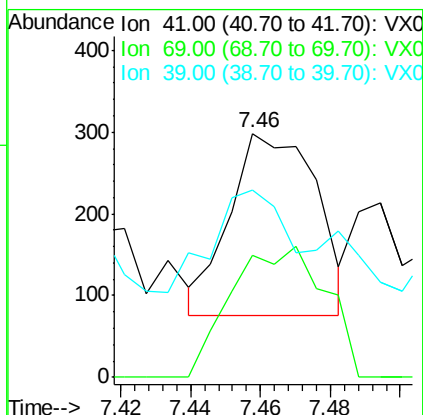
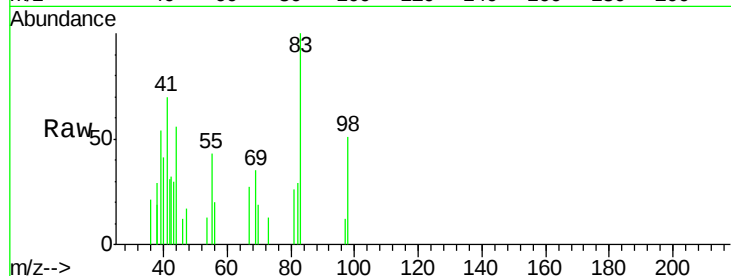




#46  
Methyl methacrylate  
Concen: 0.13 ug/l  
RT: 7.46 min Scan# 1127  
Delta R.T. -0.33 min  
Lab File: VX002687.D  
Acq: 18 Jun 2018 18:48

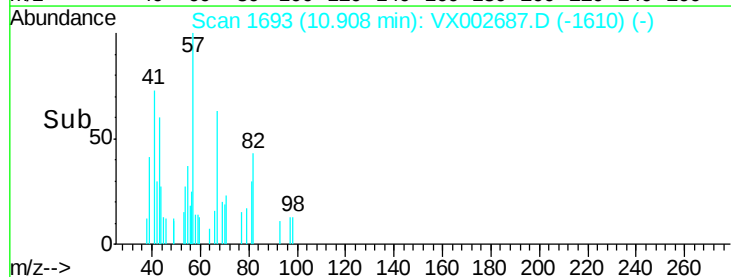
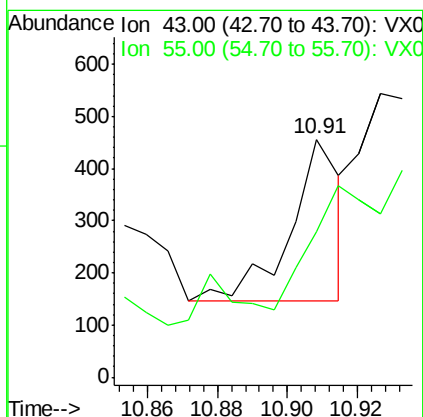
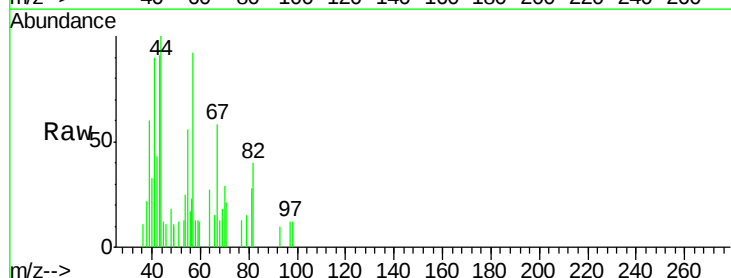
Instrument :  
MSVOA\_X  
ClientSampled :

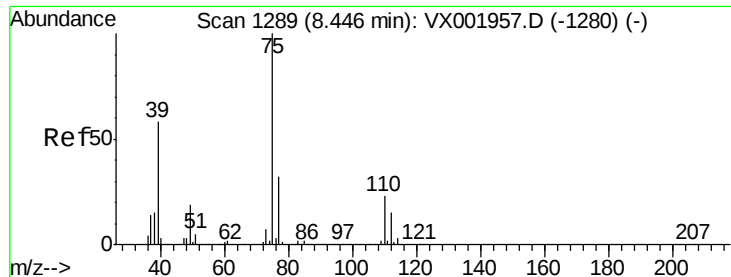
Tot Ion: 41 Resp: 385  
Ion Ratio Lower Upper  
41 100  
69 79.3 37.0 110.9  
39 41.0 29.6 88.9



#47  
n-ethyl Acetate  
Concen: 0.06 ug/l  
RT: 10.91 min Scan# 1693  
Delta R.T. 0.01 min  
Lab File: VX002687.D  
Acq: 18 Jun 2018 18:48

Tgt Ion: 43 Resp: 313  
Ion Ratio Lower Upper  
43 100  
55 100.3 0.1 0.1#

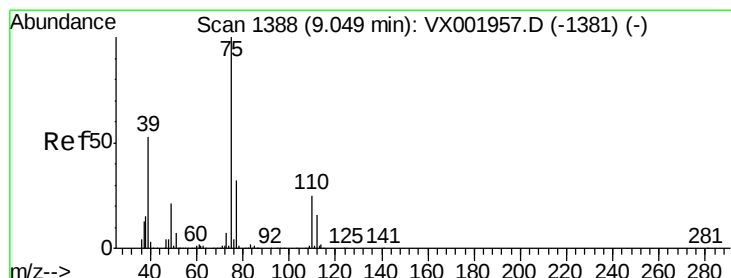
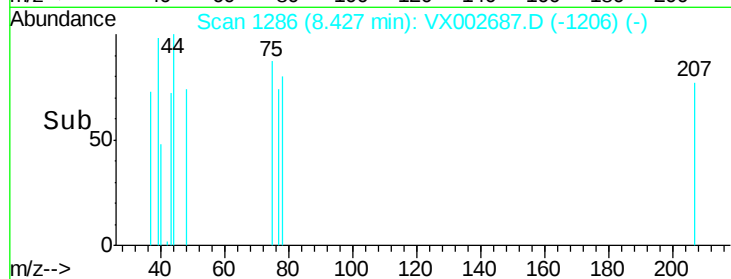
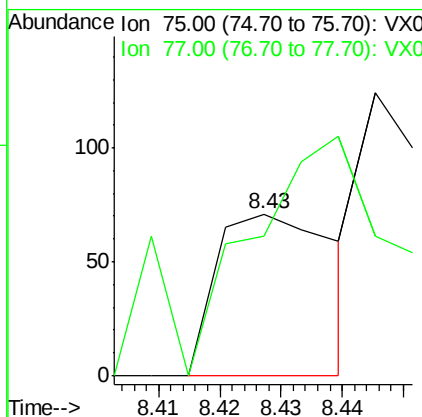
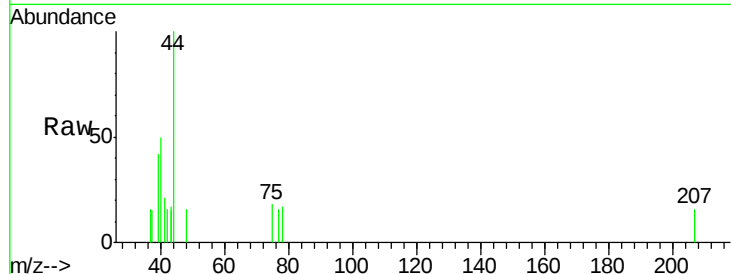




#48  
 t-1,3-Dichloropropene  
 Concen: 0.03 ug/l  
 RT: 8.43 min Scan# 1286  
 Delta R.T. -0.01 min  
 Lab File: VX002687.D  
 Acq: 18 Jun 2018 18:48

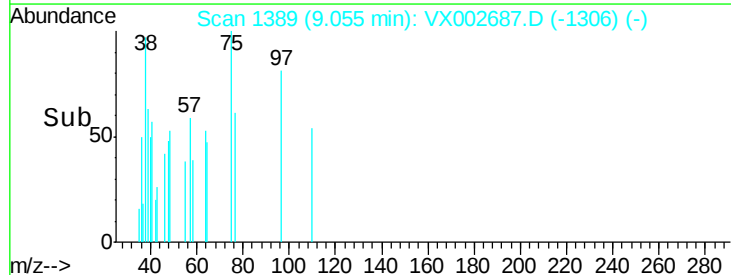
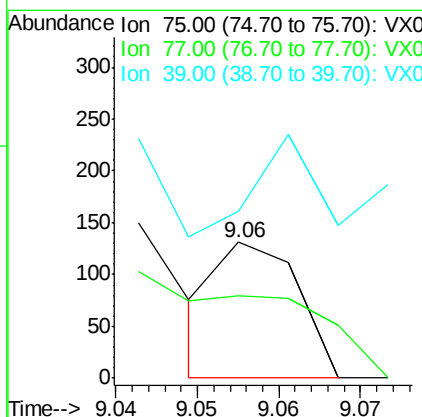
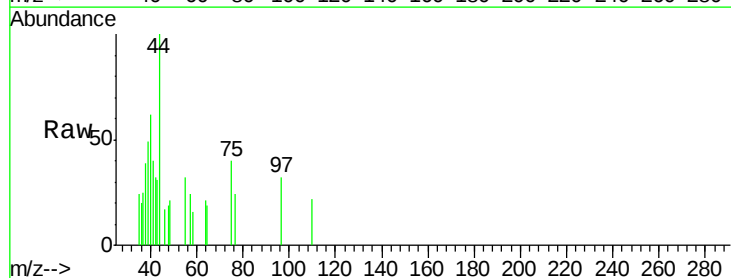
Instrument :  
 MSVOA\_X  
 ClientSampleId :

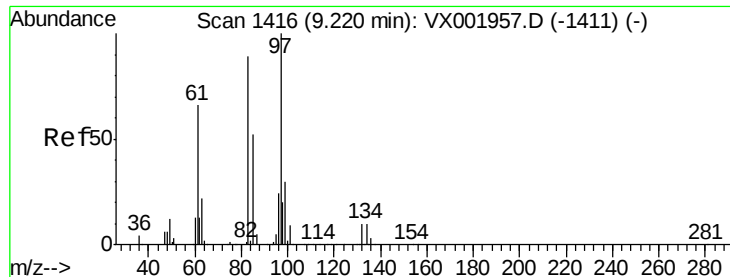
Tot Ion: 75 Resp: 95  
 Ion Ratio Lower Upper  
 75 100  
 77 85.9 25.6 38.4#



#49  
 cis-1,3-Dichloropropene  
 Concen: 0.03 ug/l  
 RT: 9.06 min Scan# 1389  
 Delta R.T. 0.01 min  
 Lab File: VX002687.D  
 Acq: 18 Jun 2018 18:48

Tgt Ion: 75 Resp: 89  
 Ion Ratio Lower Upper  
 75 100  
 77 22.1 25.4 38.2#  
 39 19.1 42.3 63.5#

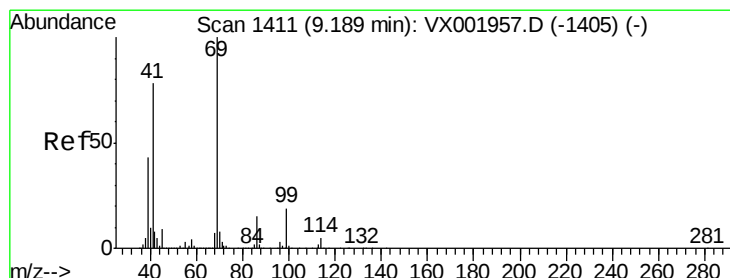
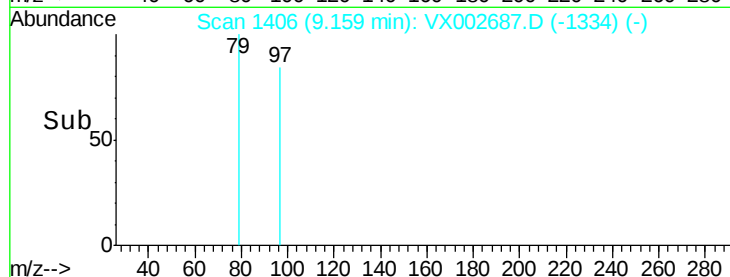
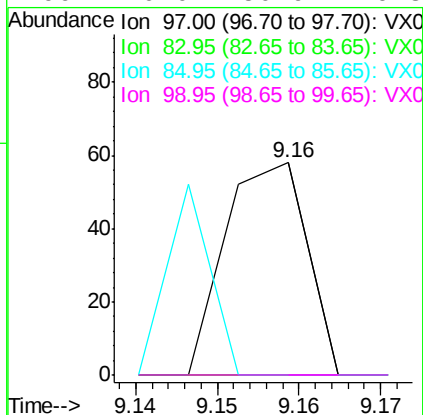
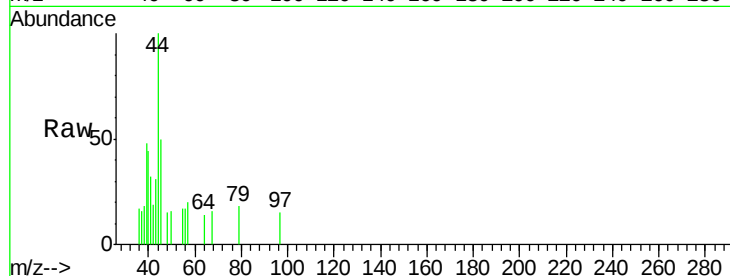




#50  
 1,1,2-Trichloroethane  
 Concen: 0.02 ug/l  
 RT: 9.16 min Scan# 1406  
 Delta R.T. -0.06 min  
 Lab File: VX002687.D  
 Acq: 18 Jun 2018 18:48

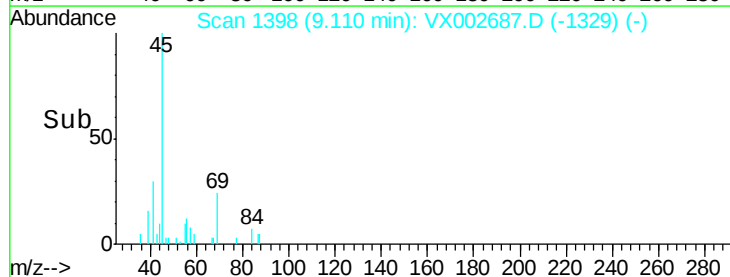
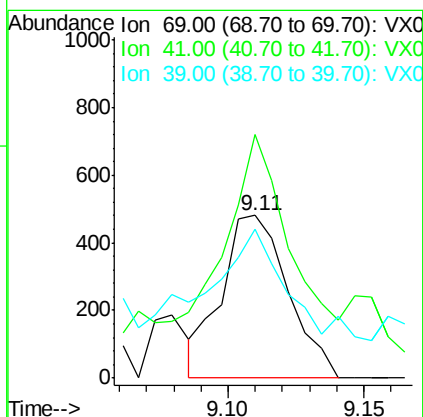
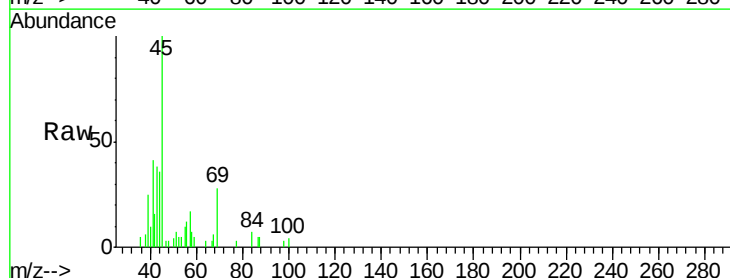
Instrument :  
 MSVOA\_X  
 ClientSampleId :

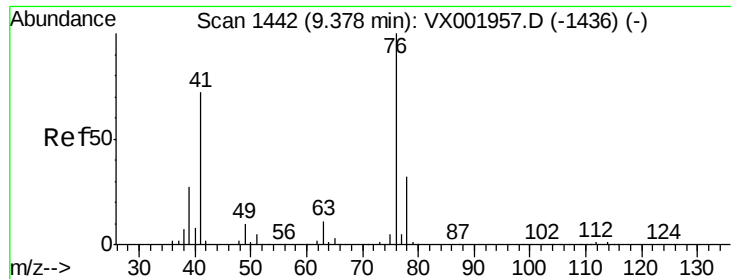
Tot Ion: 97 Resp: 40  
 Ion Ratio Lower Upper  
 97 100  
 83 0.0 70.8 106.2#  
 85 0.0 43.5 65.3#  
 99 0.0 50.9 76.3#



#51  
 Ethyl methacrylate  
 Concen: 0.22 ug/l  
 RT: 9.11 min Scan# 1398  
 Delta R.T. -0.08 min  
 Lab File: VX002687.D  
 Acq: 18 Jun 2018 18:48

Tgt Ion: 69 Resp: 818  
 Ion Ratio Lower Upper  
 69 100  
 41 114.6 39.1 117.3  
 39 53.5 21.7 65.1





#52

1,3-Dichloropropane

Concen: 0.03 ug/l

RT: 9.38 min Scan# 1442

Delta R.T. -0.00 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

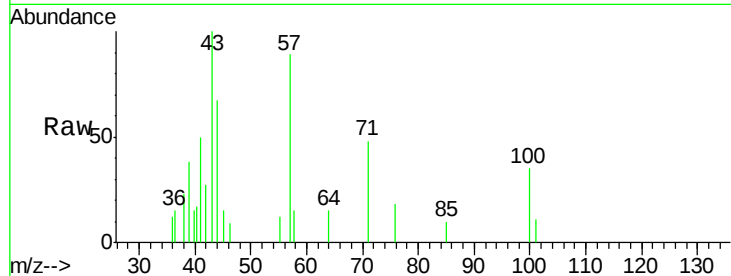
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 76 Resp: 101

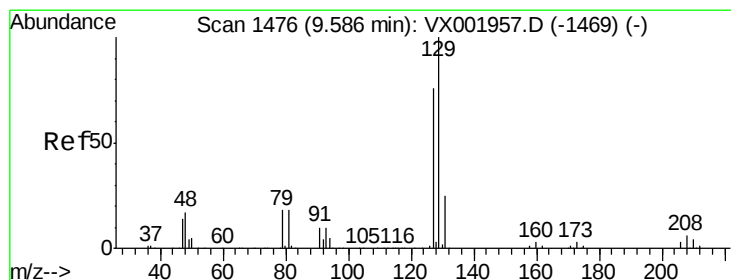
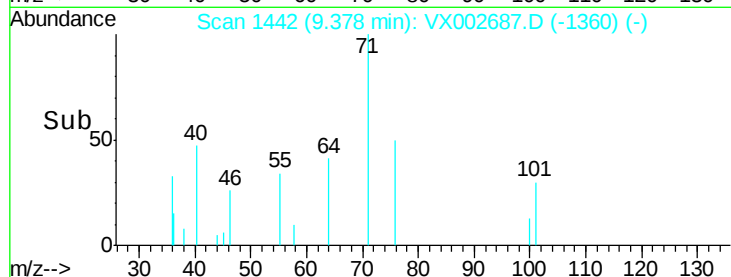
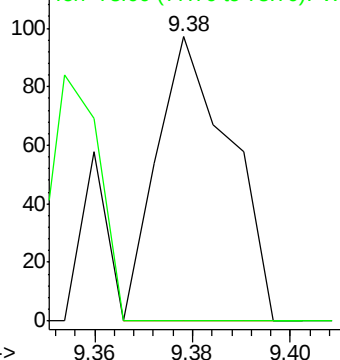
Ion Ratio Lower Upper

76 100

78 0.0 0.0 63.4



Abundance Ion 76.00 (75.70 to 76.70): VX0  
Ion 78.00 (77.70 to 78.70): VX0



#53

Dibromochloromethane

Concen: 0.28 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.24 min

Lab File: VX002687.D

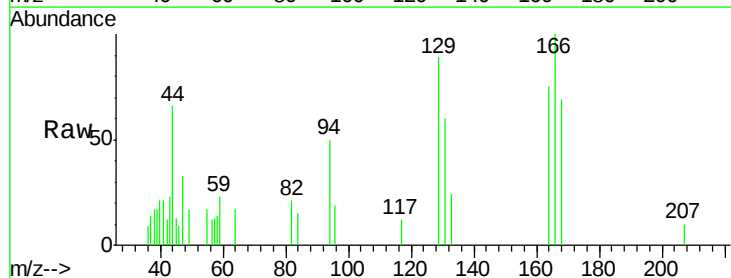
Acq: 18 Jun 2018 18:48

Tgt Ion: 129 Resp: 723

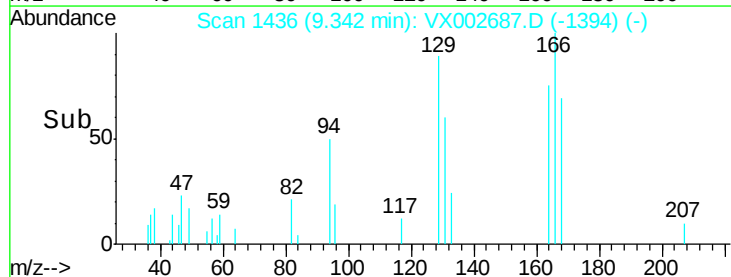
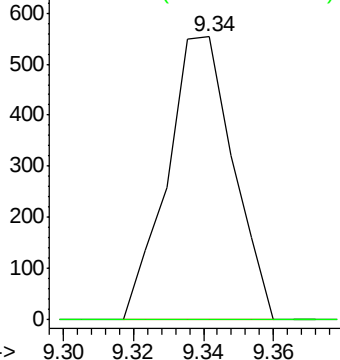
Ion Ratio Lower Upper

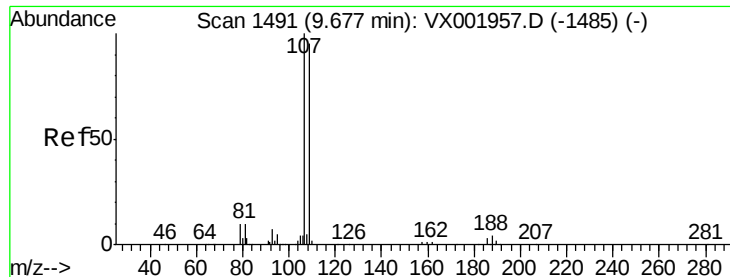
129 100

127 0.0 38.5 115.3#



Abundance Ion 129.00 (128.70 to 129.70): V  
Ion 127.00 (126.70 to 127.70): V





#54

1,2-Dibromoethane

Concen: 0.05 ug/l

RT: 9.68 min Scan# 1491

Delta R.T. -0.00 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

Instrument :

MSVOA\_X

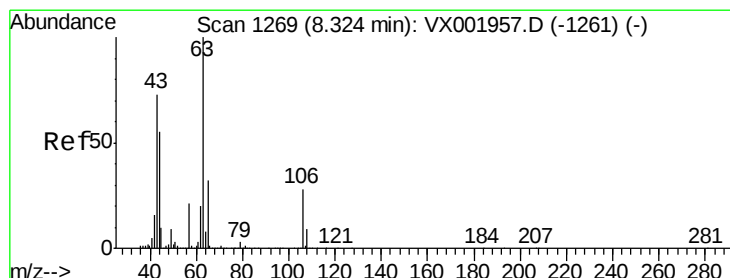
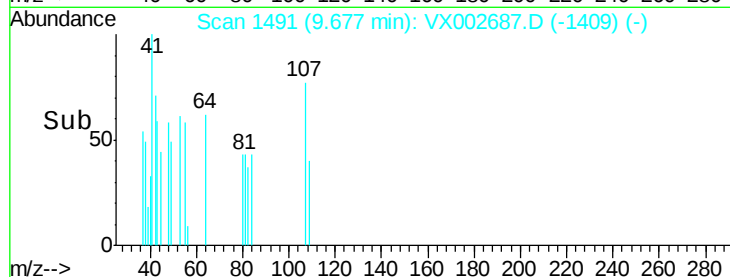
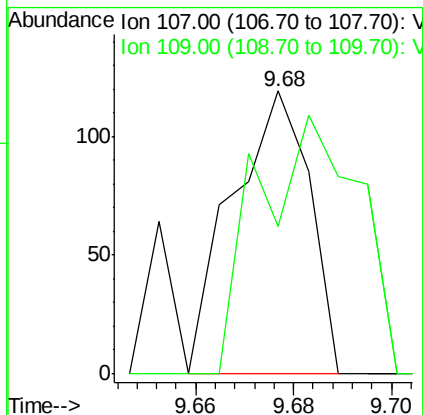
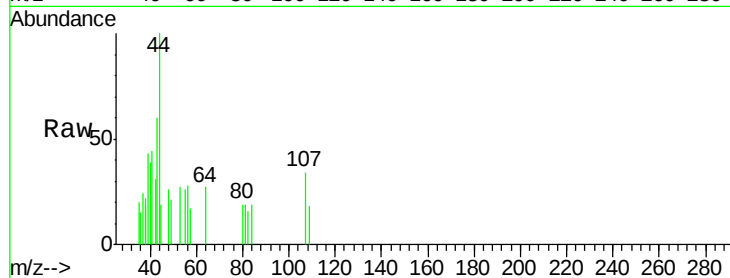
ClientSampled :

Tot Ion:107 Resp: 130

Ion Ratio Lower Upper

107 100

109 120.0 75.5 113.3#



#55

2-Chloroethyl vinyl ether

Concen: 0.12 ug/l

RT: 8.32 min Scan# 1268

Delta R.T. -0.01 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

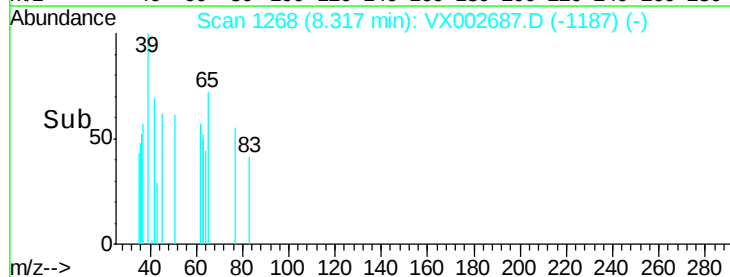
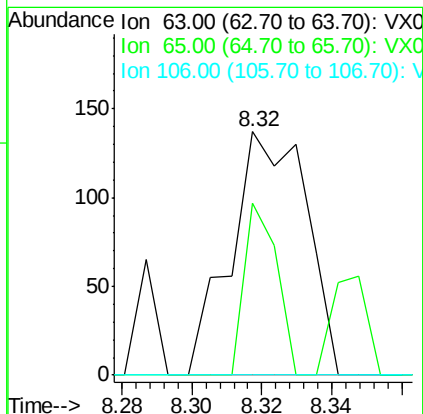
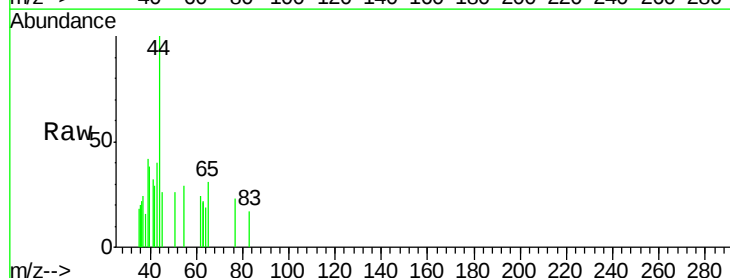
Tgt Ion: 63 Resp: 207

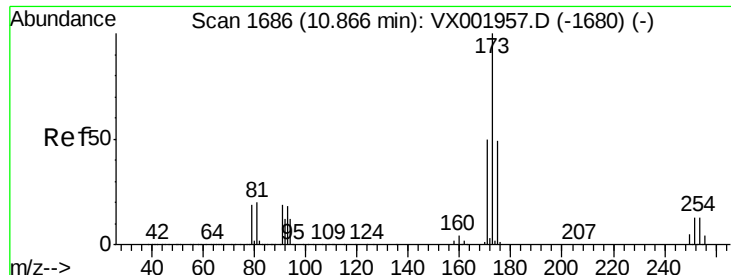
Ion Ratio Lower Upper

63 100

65 30.0 25.6 38.4

106 0.0 21.6 32.4#

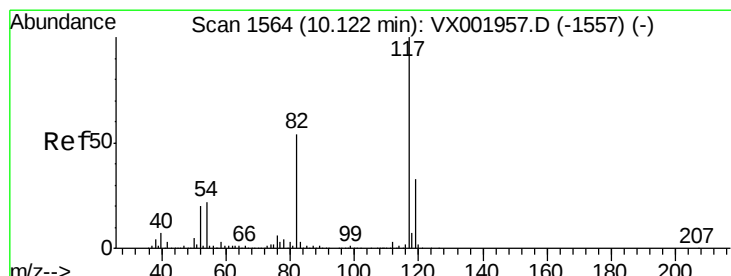
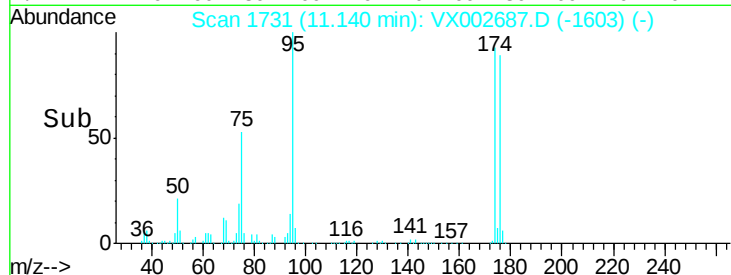
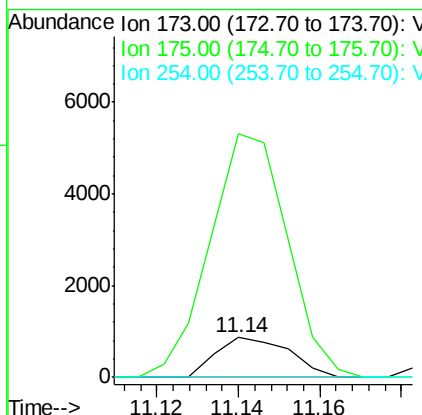
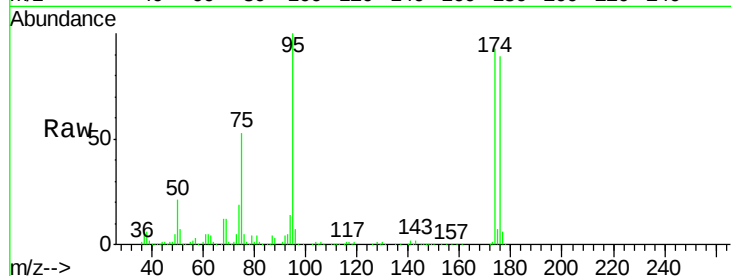




#56  
Bromoform  
Concen: 0.53 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. 0.28 min  
Lab File: VX002687.D  
Acq: 18 Jun 2018 18:48

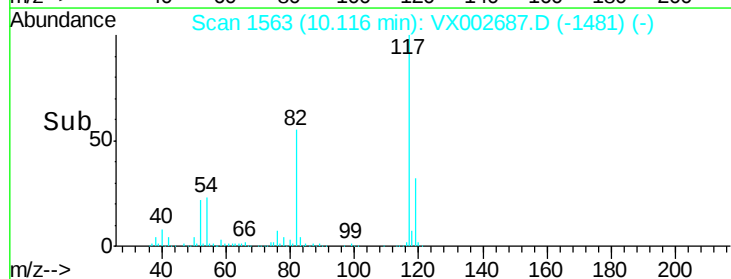
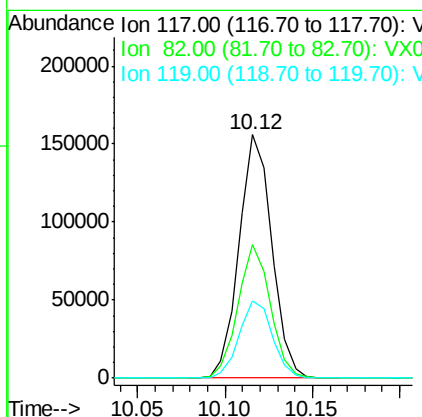
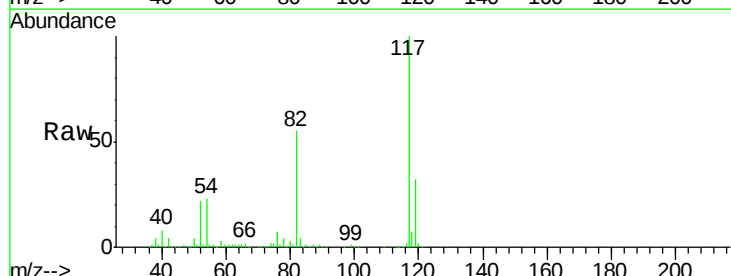
Instrument :  
MSVOA\_X  
ClientSampleId :

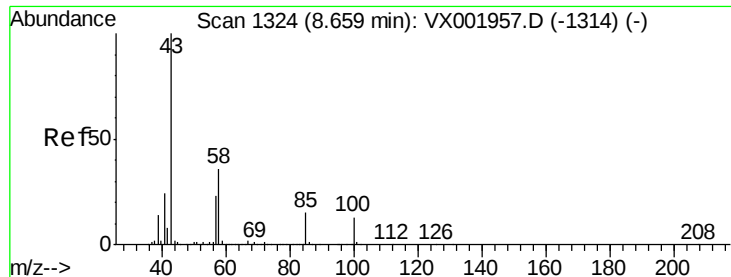
Tot Ion:173 Resp: 1088  
Ion Ratio Lower Upper  
173 100  
175 648.3 39.0 58.4#  
254 0.0 9.6 14.4#



#57  
Chlorobenzene-d5  
Concen: 30.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. -0.00 min  
Lab File: VX002687.D  
Acq: 18 Jun 2018 18:48

Tgt Ion:117 Resp: 203447  
Ion Ratio Lower Upper  
117 100  
82 54.3 44.3 66.5  
119 32.3 25.7 38.5

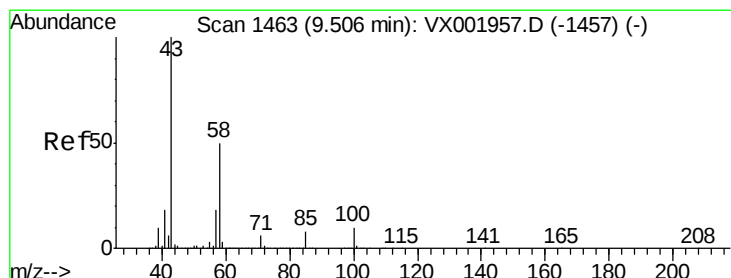
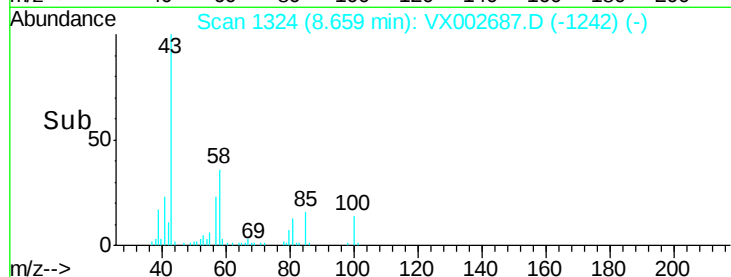
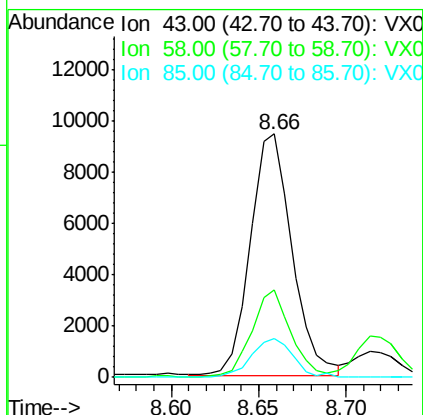
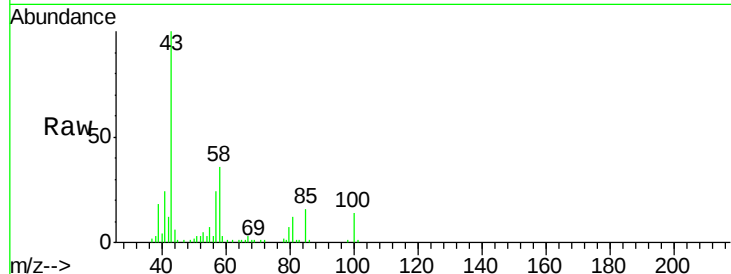




#58  
 4-Methyl-2-Pentanone  
 Concen: 4.55 ug/l  
 RT: 8.66 min Scan# 1324  
 Delta R.T. -0.00 min  
 Lab File: VX002687.D  
 Acq: 18 Jun 2018 18:48

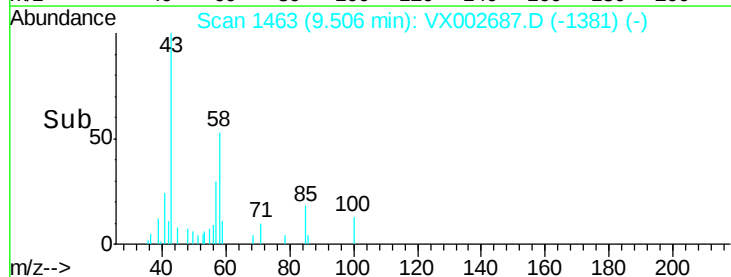
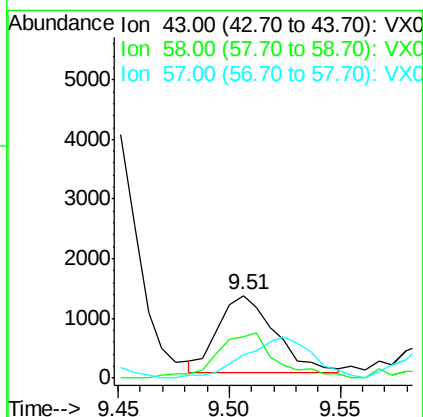
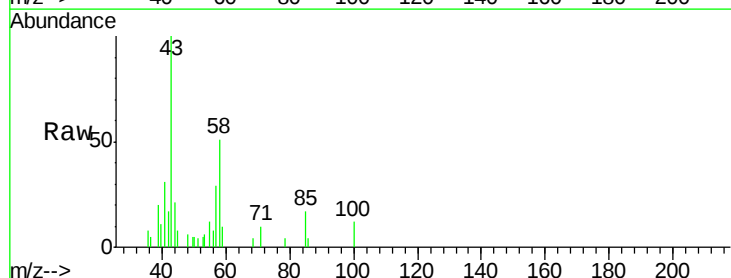
Instrument :  
 MSVOA\_X  
 ClientSampleId :

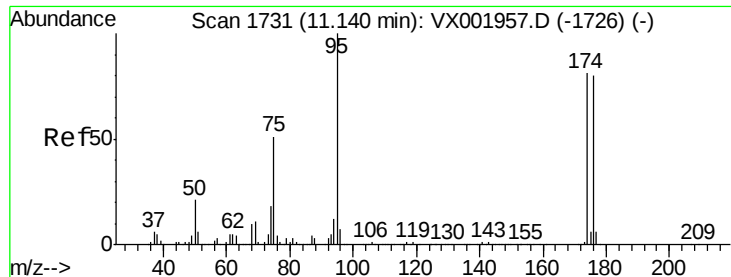
Tot Ion: 43 Resp: 15701  
 Ion Ratio Lower Upper  
 43 100  
 58 33.6 28.2 42.4  
 85 15.8 12.4 18.6



#59  
 2-Hexanone  
 Concen: 0.87 ug/l  
 RT: 9.51 min Scan# 1463  
 Delta R.T. -0.00 min  
 Lab File: VX002687.D  
 Acq: 18 Jun 2018 18:48

Tgt Ion: 43 Resp: 2304  
 Ion Ratio Lower Upper  
 43 100  
 58 59.2 39.6 59.4  
 57 64.0 14.1 21.1#





#60

4-Bromofluorobenzene

Concen: 27.48 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

Instrument :

MSVOA\_X

ClientSampled :

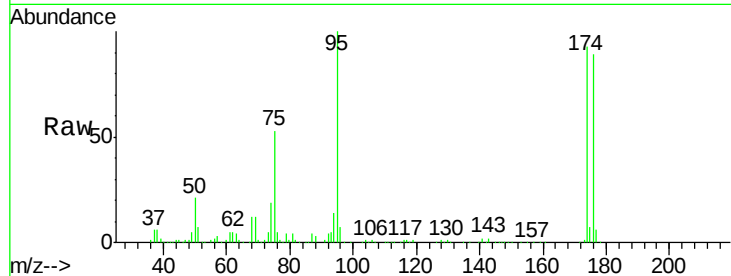
Tot Ion: 95 Resp: 92348

Ion Ratio Lower Upper

95 100

174 97.8 71.8 107.6

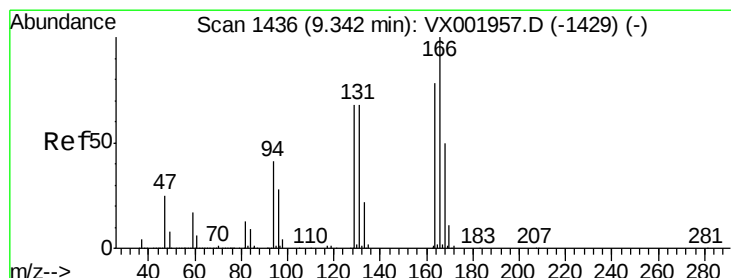
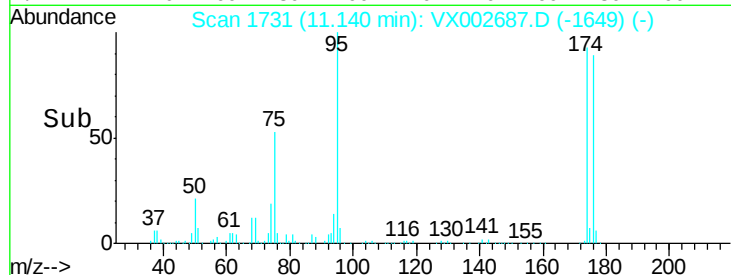
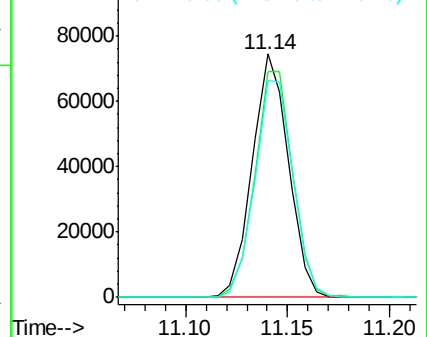
176 94.3 70.1 105.1



Abundance Ion 95.00 (94.70 to 95.70): VX001957.D (-1726) (-)

Ion 174.00 (173.70 to 174.70): VX001957.D (-1726) (-)

Ion 176.00 (175.70 to 176.70): VX001957.D (-1726) (-)



#61

Tetrachloroethene

Concen: 0.24 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.01 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

Tgt Ion: 164 Resp: 677

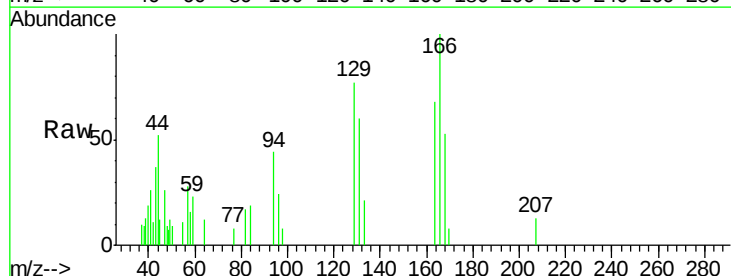
Ion Ratio Lower Upper

164 100

166 148.0 102.4 153.6

129 113.9 70.1 105.1#

131 89.4 69.1 103.7

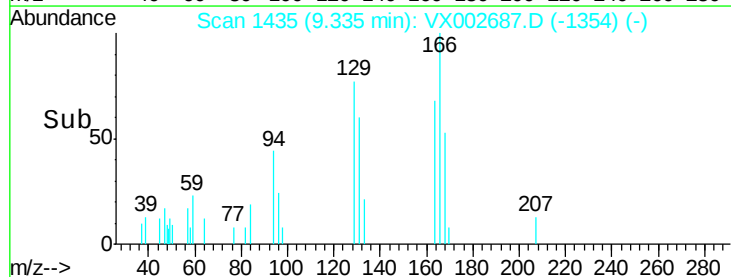
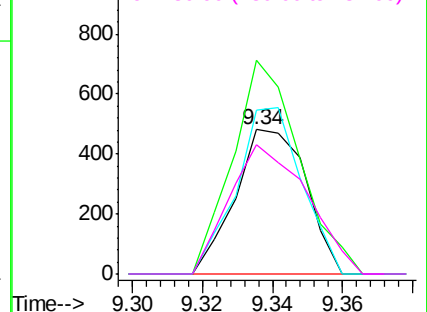


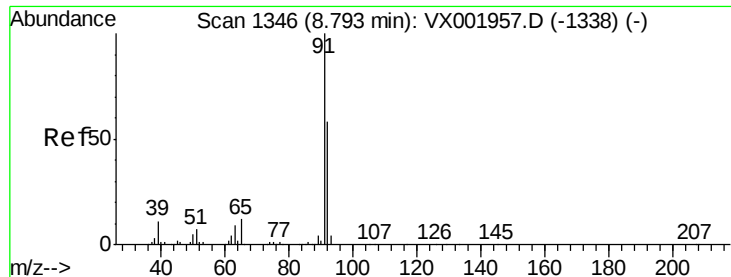
Abundance Ion 163.85 (163.55 to 164.55): VX001957.D (-1429) (-)

Ion 165.80 (165.50 to 166.50): VX001957.D (-1429) (-)

Ion 128.90 (128.60 to 129.60): VX001957.D (-1429) (-)

Ion 130.90 (130.60 to 131.60): VX001957.D (-1429) (-)





#62

Toluene

Concen: 1.38 ug/l

RT: 8.79 min Scan# 1346

Delta R.T. -0.00 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

Instrument :

MSVOA\_X

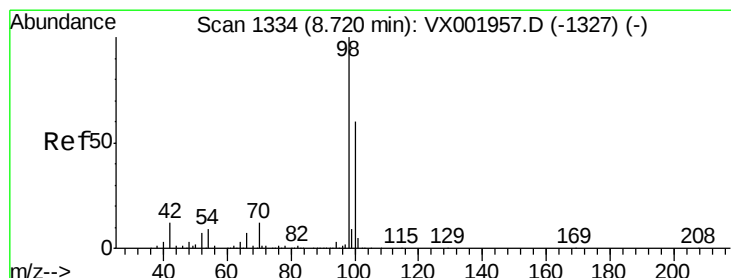
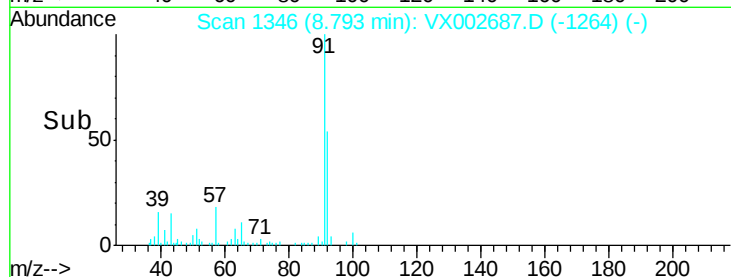
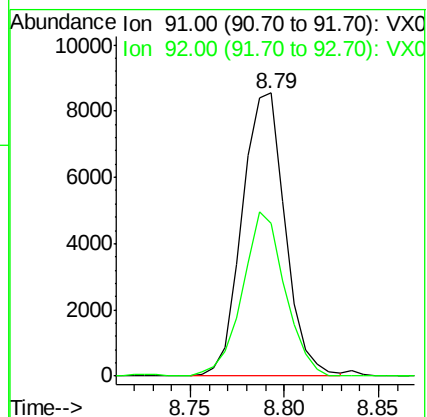
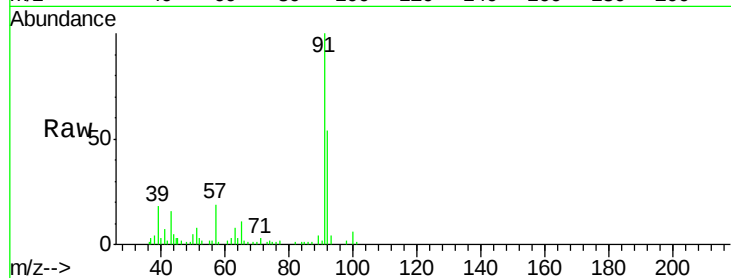
ClientSampleId :

Tot Ion: 91 Resp: 13536

Ion Ratio Lower Upper

91 100

92 57.1 46.5 69.7



#63

Toluene-d8

Concen: 30.08 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002687.D

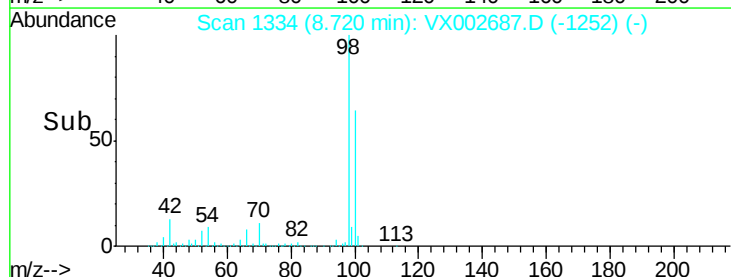
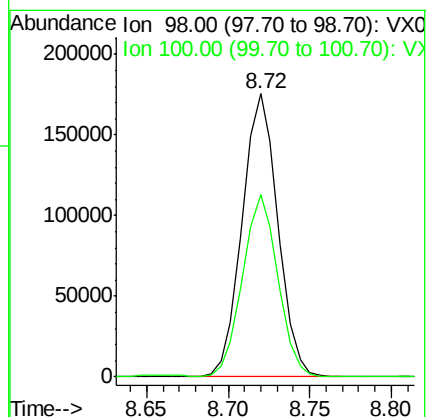
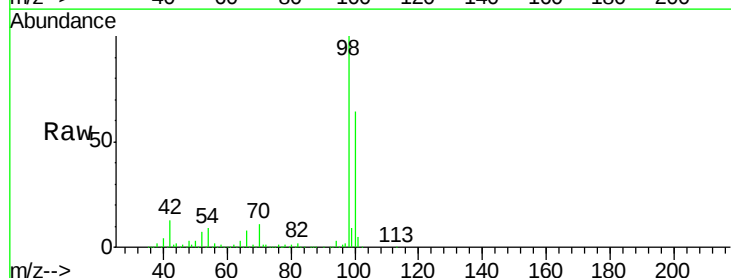
Acq: 18 Jun 2018 18:48

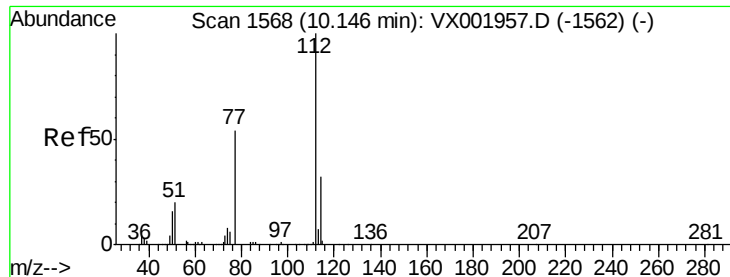
Tgt Ion: 98 Resp: 267315

Ion Ratio Lower Upper

98 100

100 63.8 50.8 76.2





#64

Chlorobenzene

Concen: 0.10 ug/l

RT: 10.15 min Scan# 1568

Delta R.T. 0.01 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

Instrument :

MSVOA\_X

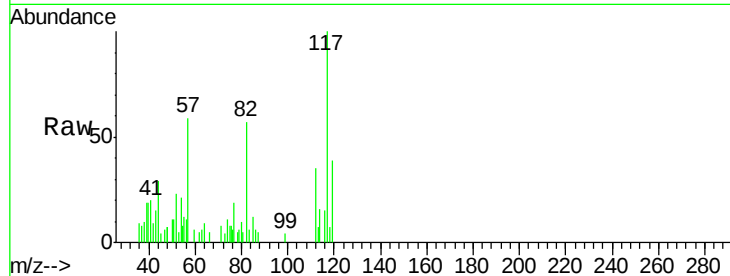
ClientSampled :

Tot Ion:112 Resp: 625

Ion Ratio Lower Upper

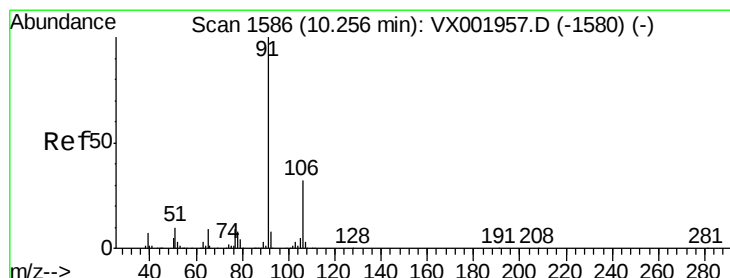
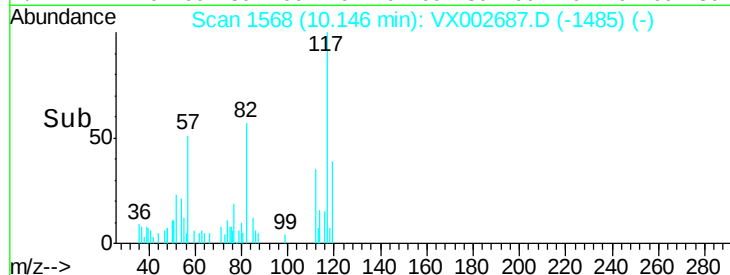
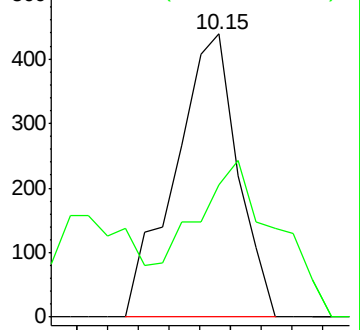
112 100

114 15.3 25.6 38.4#



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

Ethyl Benzene

Concen: 0.34 ug/l

RT: 10.26 min Scan# 1586

Delta R.T. -0.00 min

Lab File: VX002687.D

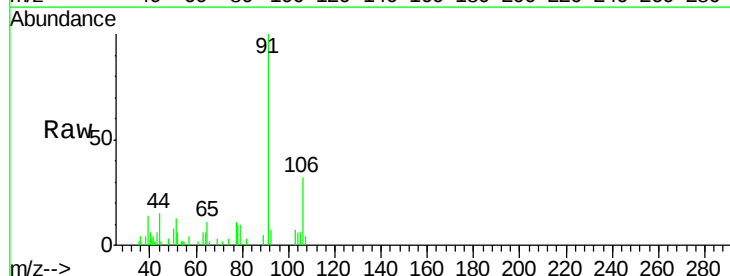
Acq: 18 Jun 2018 18:48

Tgt Ion: 91 Resp: 3736

Ion Ratio Lower Upper

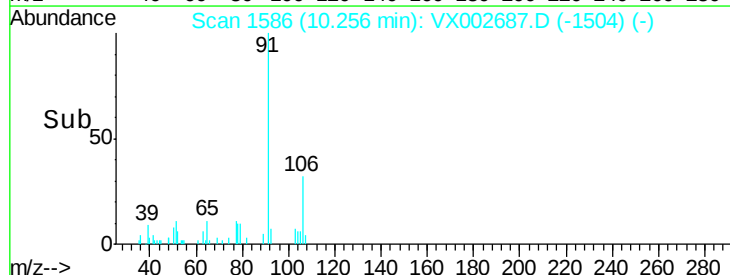
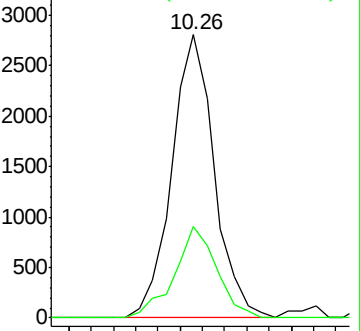
91 100

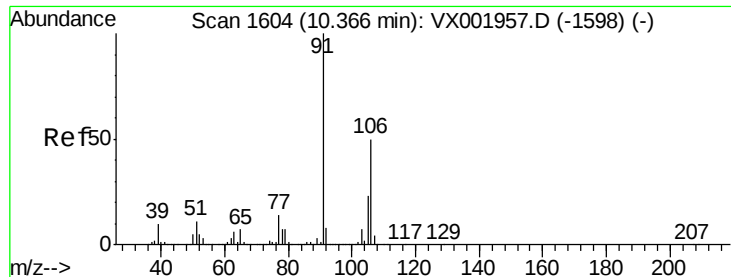
106 32.5 25.2 37.8



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V





#67

m/p-Xvlenes

Concen: 0.80 ug/l

RT: 10.36 min Scan# 1603

Delta R.T. -0.01 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

Instrument :

MSVOA\_X

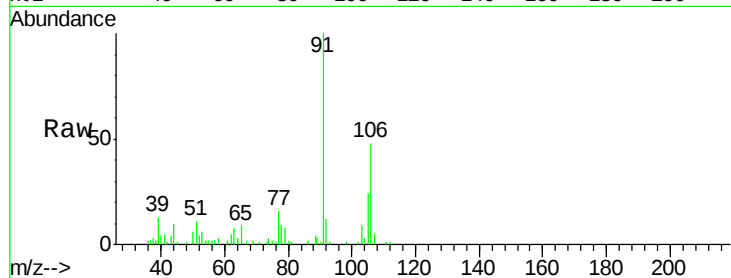
ClientSampleId :

Tot Ion:106 Resp: 3424

Ion Ratio Lower Upper

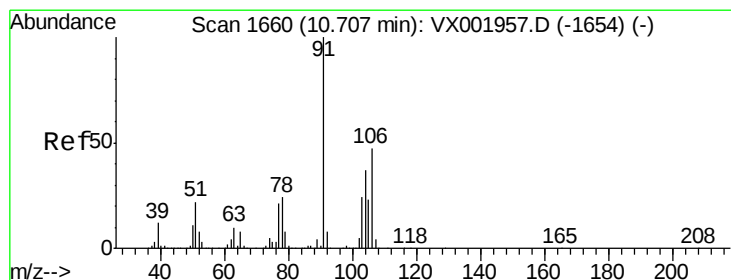
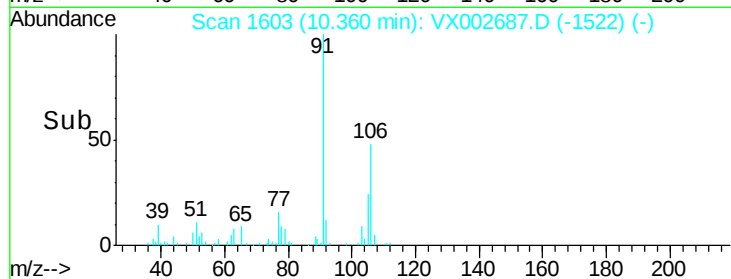
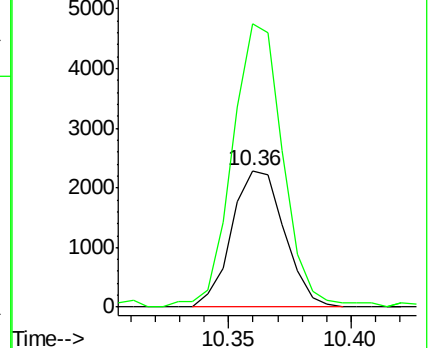
106 100

91 199.0 164.1 246.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#68

o-Xylene

Concen: 0.73 ug/l

RT: 10.70 min Scan# 1659

Delta R.T. -0.00 min

Lab File: VX002687.D

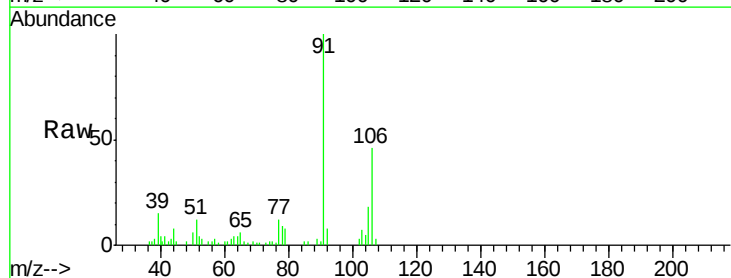
Acq: 18 Jun 2018 18:48

Tgt Ion:106 Resp: 3057

Ion Ratio Lower Upper

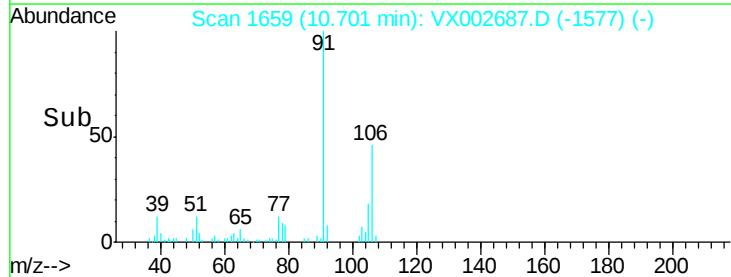
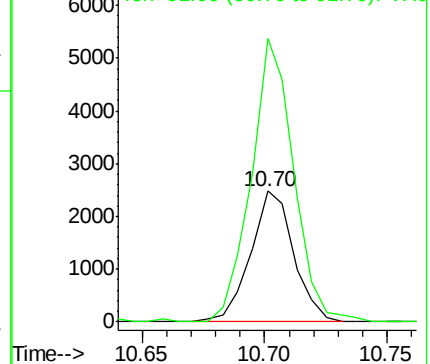
106 100

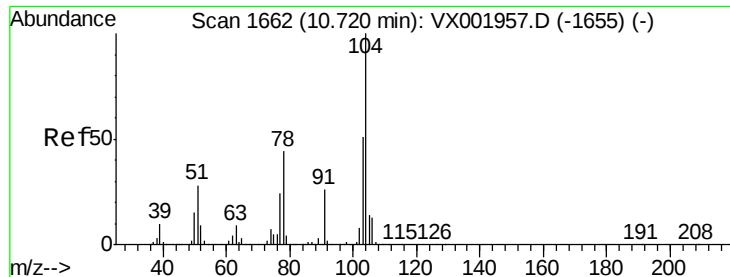
91 212.4 109.1 327.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

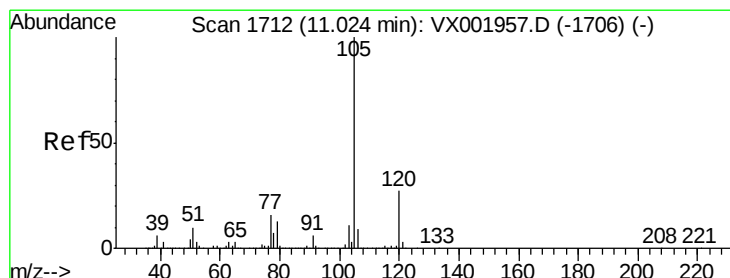
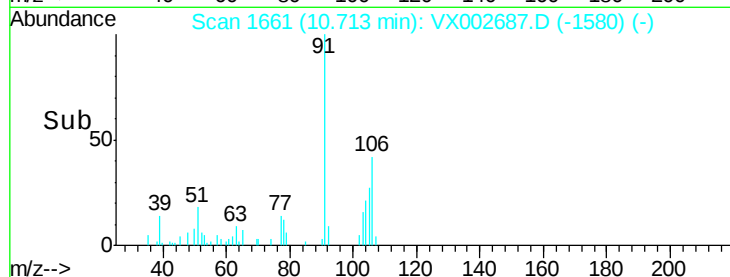
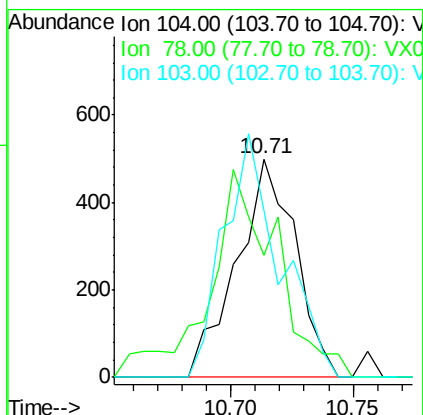
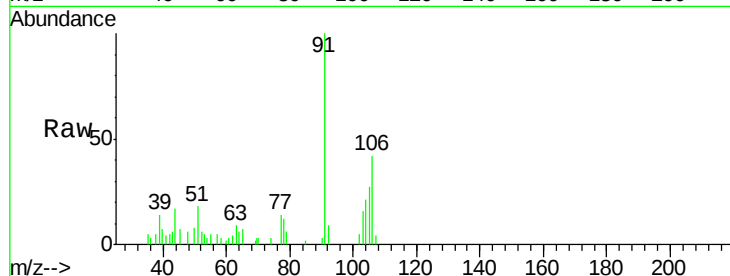




#69  
Stvrene  
Concen: 0.12 ug/l  
RT: 10.71 min Scan# 1661  
Delta R.T. -0.01 min  
Lab File: VX002687.D  
Acq: 18 Jun 2018 18:48

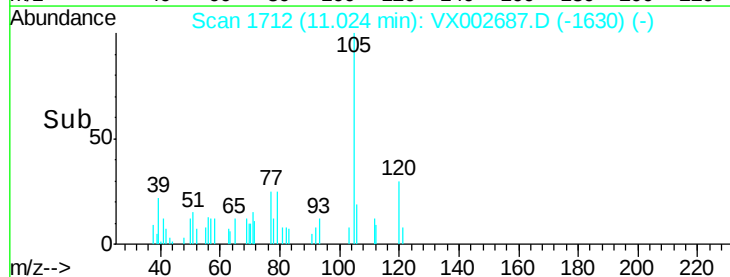
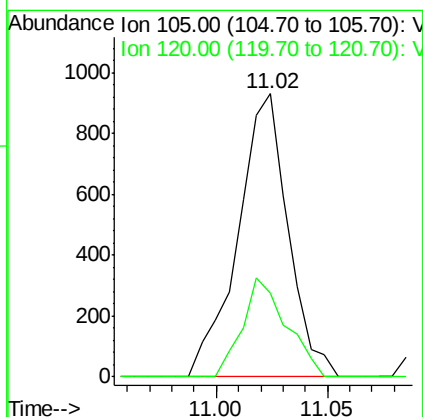
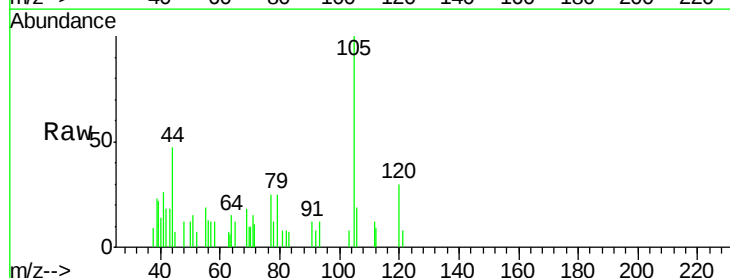
Instrument :  
MSVOA\_X  
ClientSampleId :

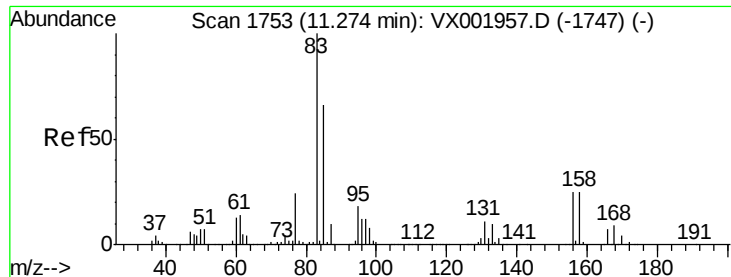
Tot Ion:104 Resp: 827  
Ion Ratio Lower Upper  
104 100  
78 29.0 41.8 62.8#  
103 0.0 44.9 67.3#



#70  
Isopropylbenzene  
Concen: 0.13 ug/l  
RT: 11.02 min Scan# 1712  
Delta R.T. -0.00 min  
Lab File: VX002687.D  
Acq: 18 Jun 2018 18:48

Tgt Ion:105 Resp: 1464  
Ion Ratio Lower Upper  
105 100  
120 30.4 19.0 35.2





#71

1,1,2,2-Tetrachloroethane

Concen: 0.01 ug/l

RT: 11.27 min Scan# 1753

Delta R.T. -0.00 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

Instrument :

MSVOA\_X

ClientSampled :

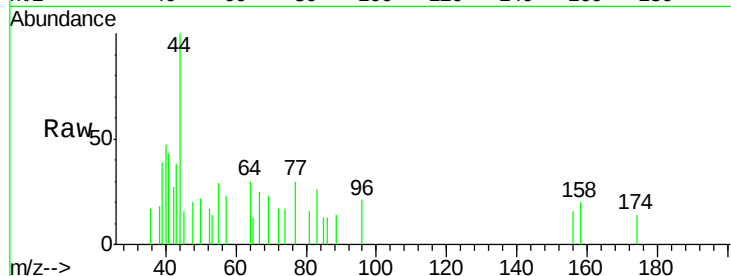
Tot Ion: 83 Resp: 39

Ion Ratio Lower Upper

83 100

131 0.0 5.4 16.2#

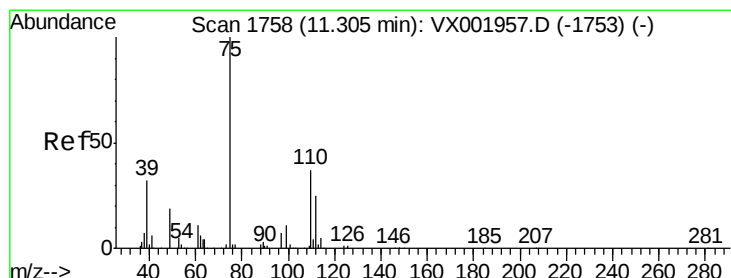
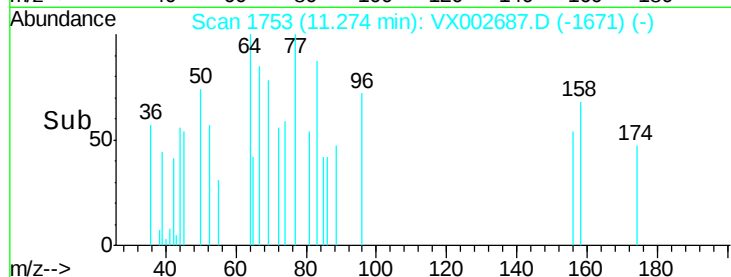
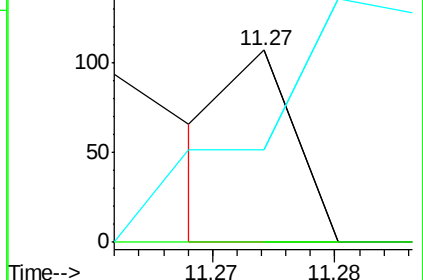
85 623.1 32.4 97.2#



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VX0



#72

1,2,3-Trichloropropane

Concen: 0.06 ug/l

RT: 11.30 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VX002687.D

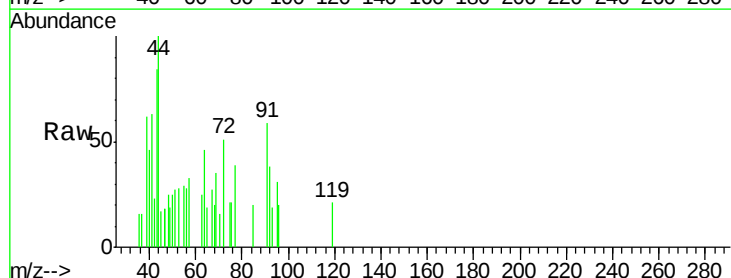
Acq: 18 Jun 2018 18:48

Tgt Ion: 75 Resp: 177

Ion Ratio Lower Upper

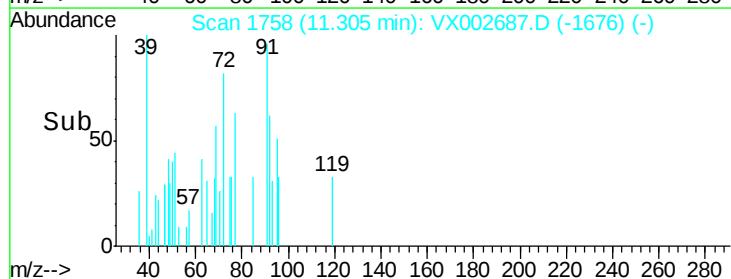
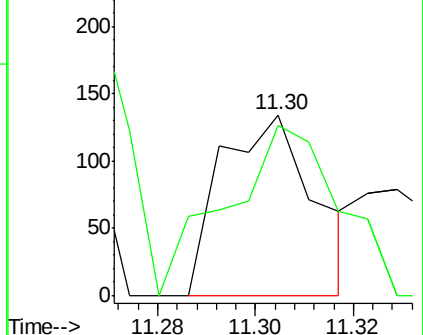
75 100

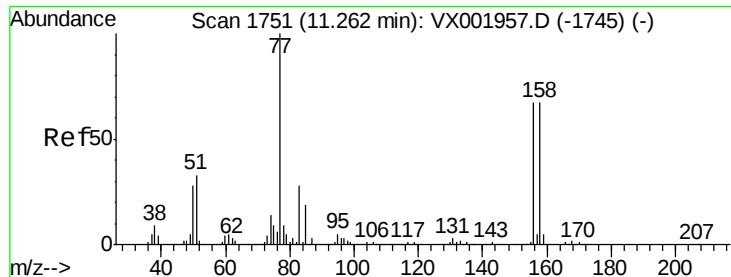
77 88.7 0.0 71.8#



Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

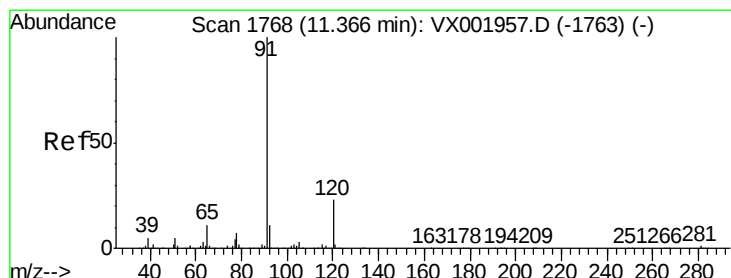
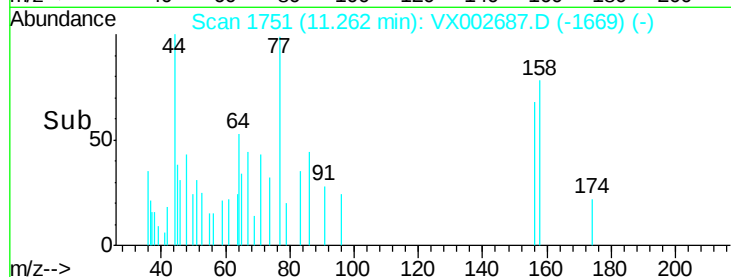
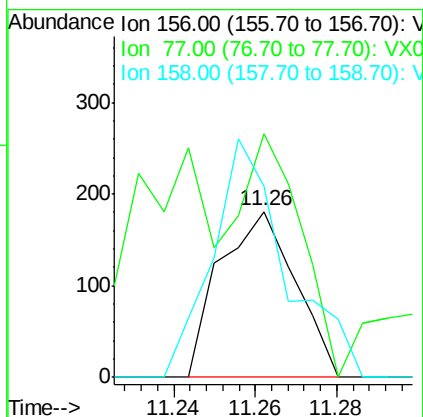
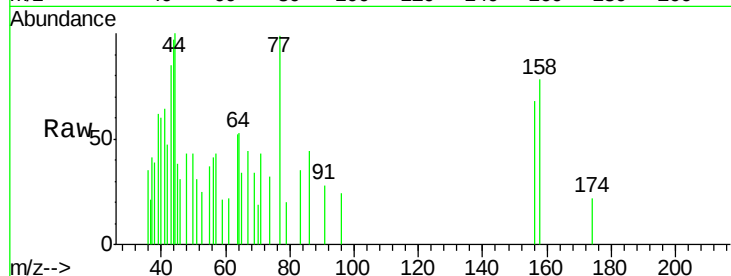




#73  
Bromobenzene  
Concen: 0.07 ug/l  
RT: 11.26 min Scan# 1751  
Delta R.T. -0.00 min  
Lab File: VX002687.D  
Acq: 18 Jun 2018 18:48

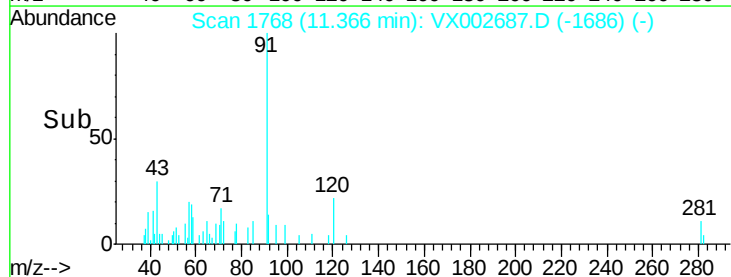
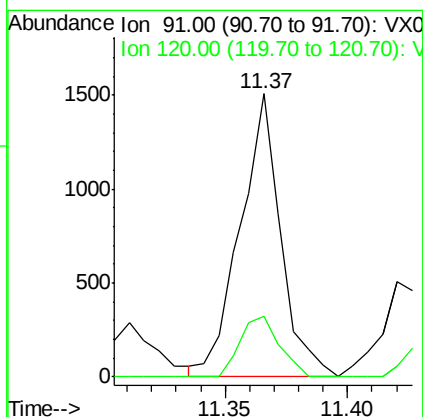
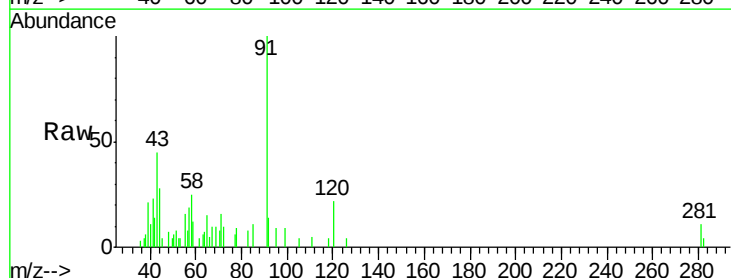
Instrument :  
MSVOA\_X  
ClientSampled :

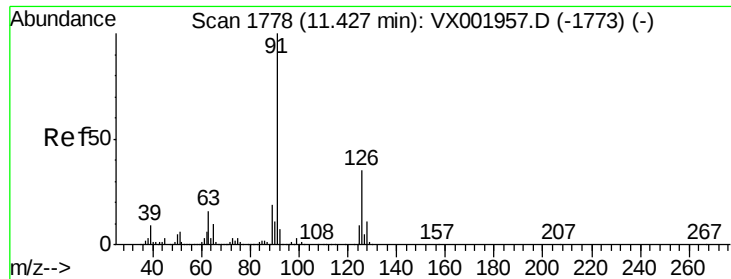
Tot Ion:156 Resp: 232  
Ion Ratio Lower Upper  
156 100  
77 122.4 0.0 301.0  
158 117.7 0.0 196.2



#74  
n-propylbenzene  
Concen: 0.13 ug/l  
RT: 11.37 min Scan# 1768  
Delta R.T. -0.00 min  
Lab File: VX002687.D  
Acq: 18 Jun 2018 18:48

Tgt Ion: 91 Resp: 1740  
Ion Ratio Lower Upper  
91 100  
120 20.7 0.0 46.2





#75

2-Chlorotoluene

Concen: 0.13 ug/l

RT: 11.42 min Scan# 1777

Delta R.T. -0.01 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

Instrument :

MSVOA\_X

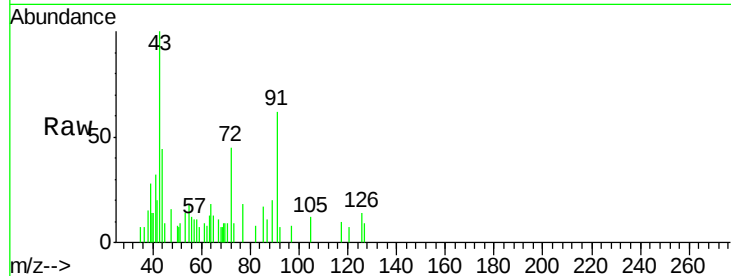
ClientSampleId :

Tot Ion: 91 Resp: 1050

Ion Ratio Lower Upper

91 100

126 28.9 0.0 69.4



Abundance Ion 91.00 (90.70 to 91.70): VX001957.D (-1773) (-)

Ion 126.00 (125.70 to 126.70): VX001957.D (-1773) (-)

1500

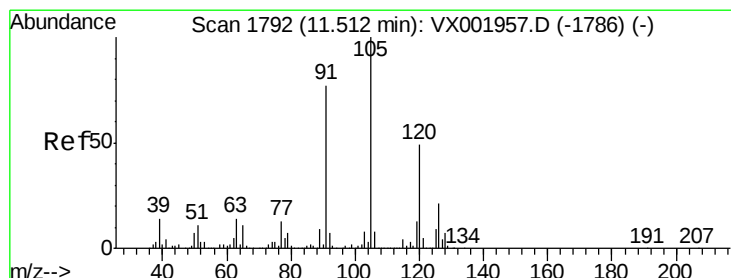
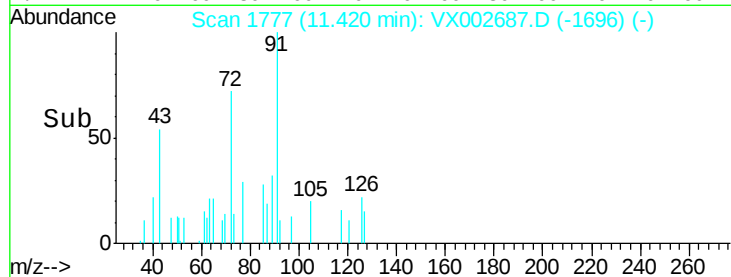
1000

500

0

11.40 11.42 11.44 11.46 11.48 11.50

Time-->



#76

1,3,5-Trimethylbenzene

Concen: 0.33 ug/l

RT: 11.51 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX002687.D

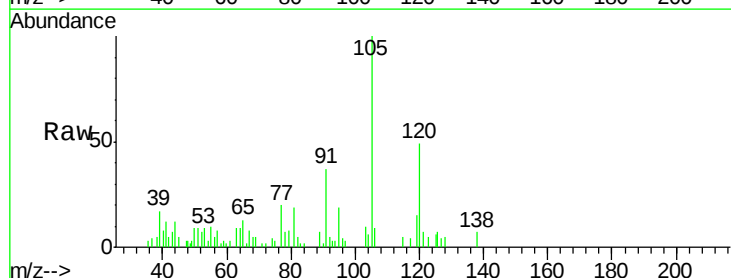
Acq: 18 Jun 2018 18:48

Tgt Ion: 105 Resp: 3233

Ion Ratio Lower Upper

105 100

120 52.0 0.0 96.8



Abundance Ion 105.00 (104.70 to 105.70): VX001957.D (-1786) (-)

Ion 120.00 (119.70 to 120.70): VX001957.D (-1786) (-)

3000

2500

2000

1500

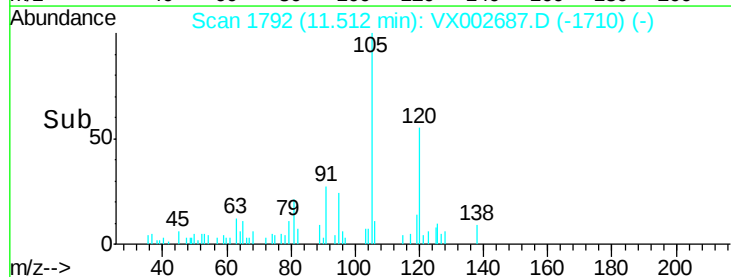
1000

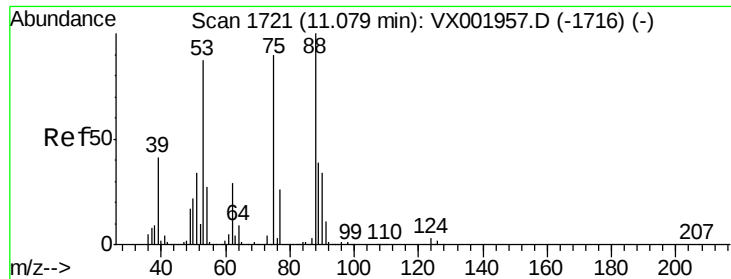
500

0

11.50 11.51 11.52 11.53 11.54 11.55

Time-->





#77

t-1,4-Dichloro-2-butene

Concen: 51.49 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

Instrument :

MSVOA\_X

ClientSampled :

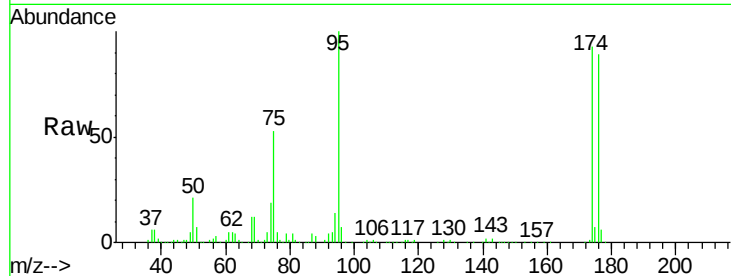
Tot Ion: 75 Resp: 49481

Ion Ratio Lower Upper

75 100

53 0.0 48.3 144.9#

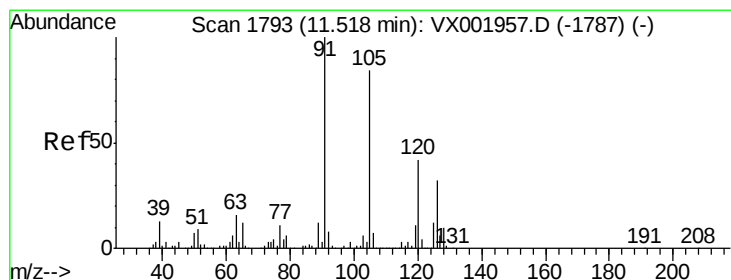
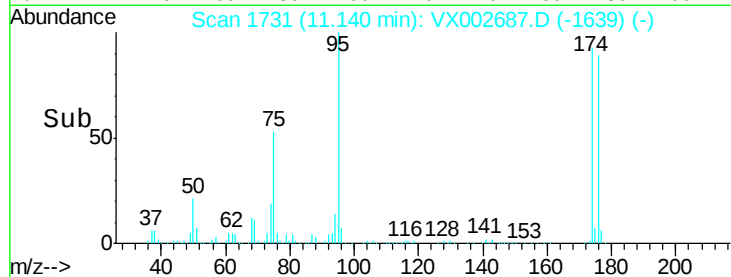
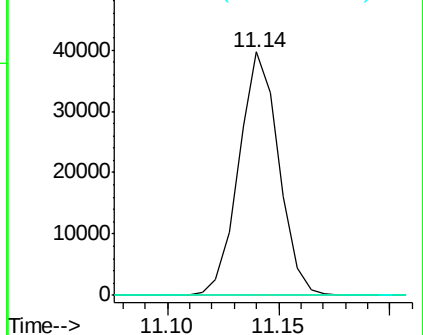
89 0.0 21.8 65.4#



Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 89.00 (88.70 to 89.70): VX0



#78

4-Chlorotoluene

Concen: 0.17 ug/l

RT: 11.52 min Scan# 1793

Delta R.T. 0.01 min

Lab File: VX002687.D

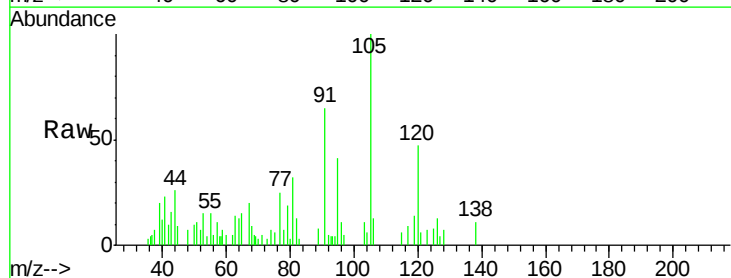
Acq: 18 Jun 2018 18:48

Tgt Ion: 91 Resp: 1602

Ion Ratio Lower Upper

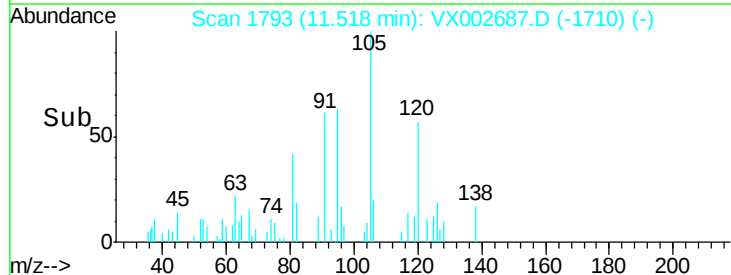
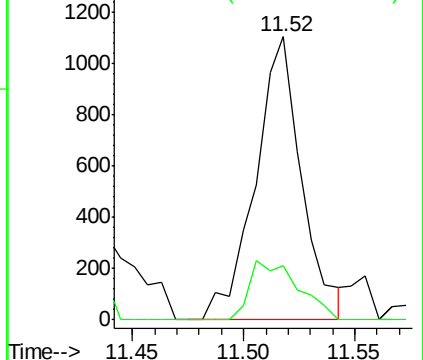
91 100

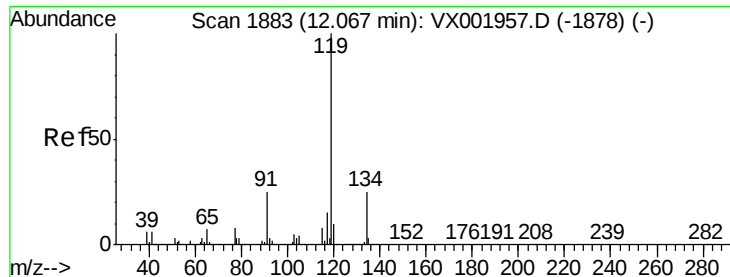
126 22.0 0.0 61.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 126.00 (125.70 to 126.70): V





#79

tert-butylbenzene

Concen: 0.48 ug/l

RT: 12.07 min Scan# 1884

Delta R.T. 0.01 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

Instrument :

MSVOA\_X

ClientSampled :

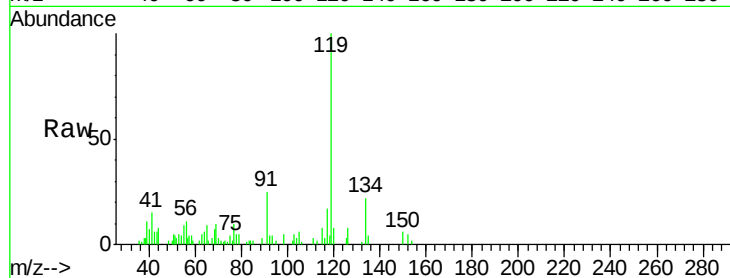
Tot Ion:119 Resp: 5165

Ion Ratio Lower Upper

119 100

91 25.6 0.0 48.0

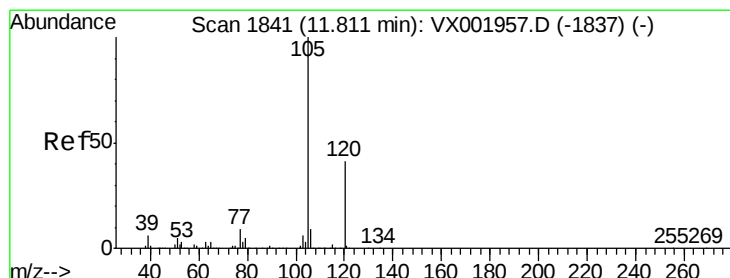
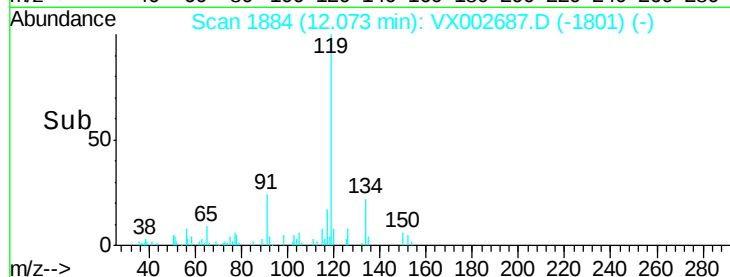
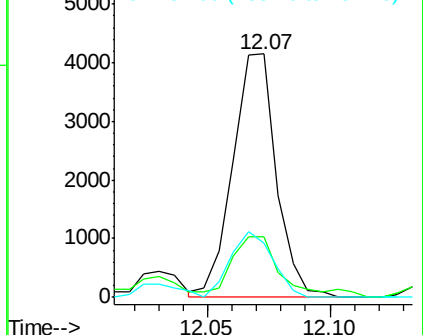
134 26.1 0.0 52.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#80

1,2,4-Trimethylbenzene

Concen: 0.80 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. -0.00 min

Lab File: VX002687.D

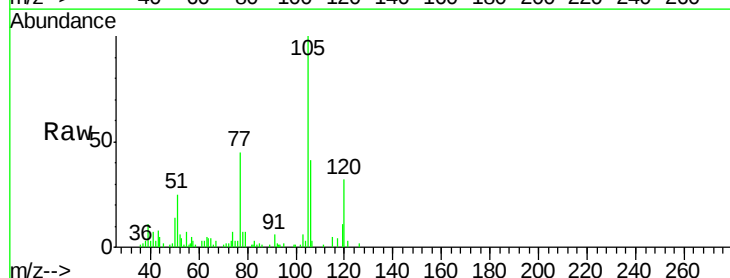
Acq: 18 Jun 2018 18:48

Tgt Ion:105 Resp: 7959

Ion Ratio Lower Upper

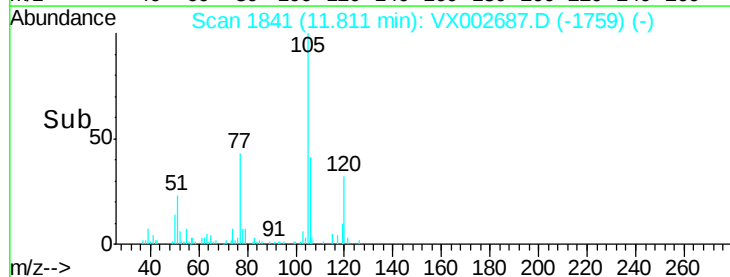
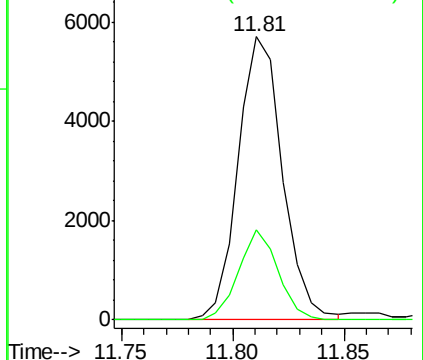
105 100

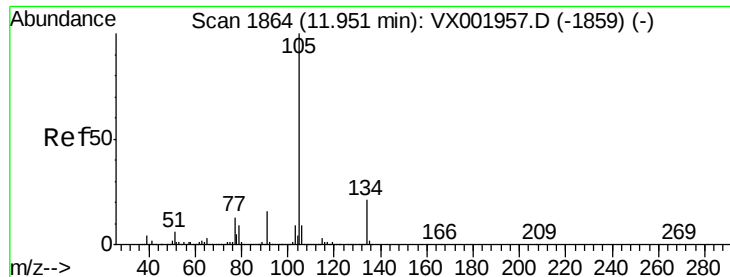
120 28.2 0.0 89.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

sec-Butylbenzene

Concen: 0.10 ug/l

RT: 11.95 min Scan# 1864

Delta R.T. -0.00 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

Instrument :

MSVOA\_X

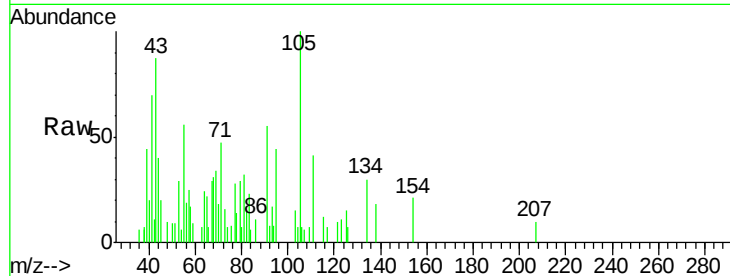
ClientSampleId :

Tot Ion:105 Resp: 1147

Ion Ratio Lower Upper

105 100

134 14.4 0.0 41.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

11.95

1000

800

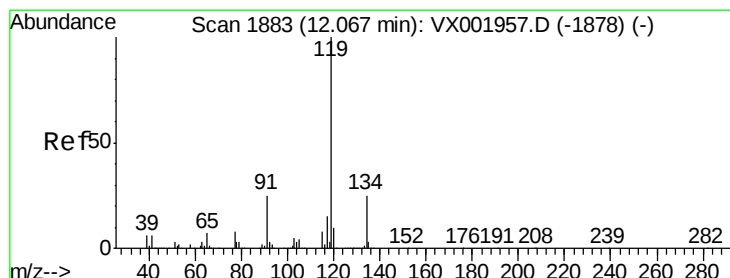
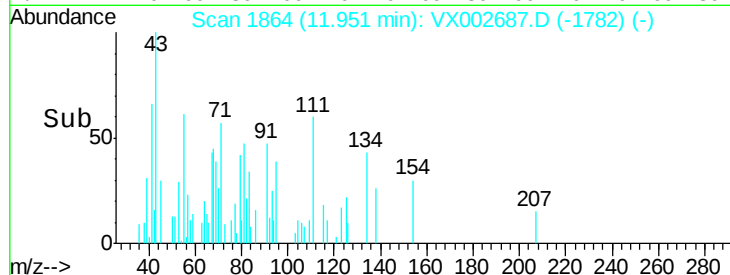
600

400

200

0

Time-->



#82

p-Isopropyltoluene

Concen: 0.48 ug/l

RT: 12.07 min Scan# 1884

Delta R.T. 0.01 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

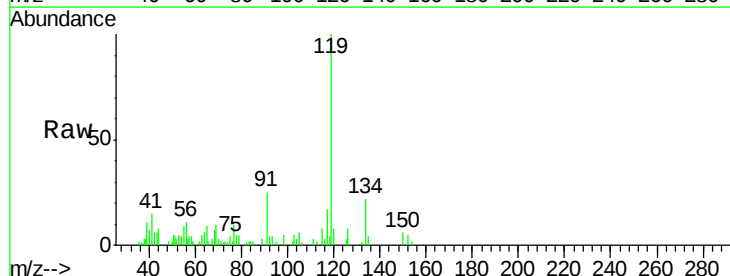
Tgt Ion:119 Resp: 5165

Ion Ratio Lower Upper

119 100

134 26.1 0.0 52.6

91 25.6 0.0 48.0



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

12.07

5000

4000

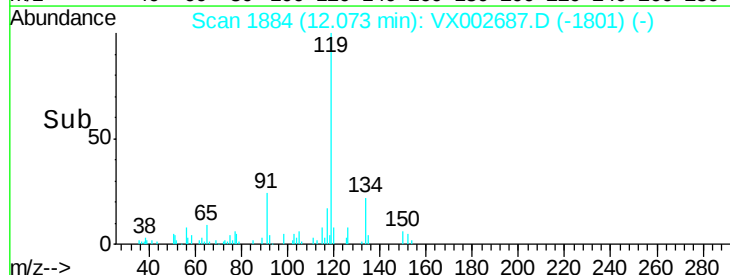
3000

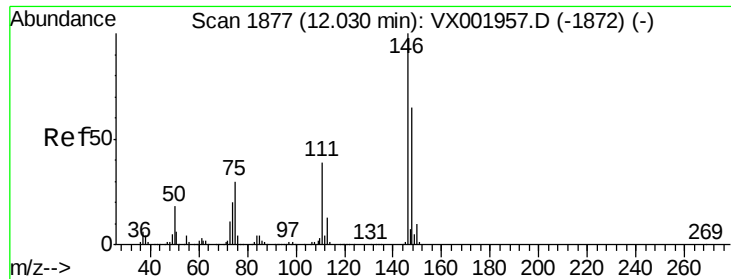
2000

1000

0

Time-->

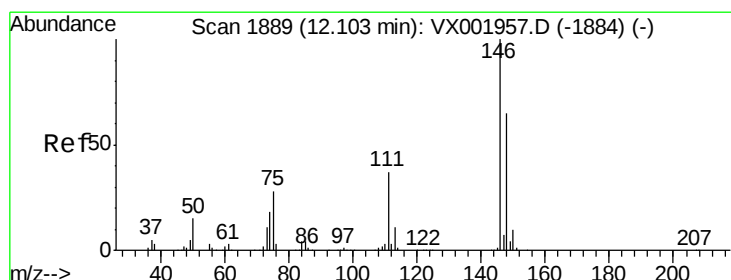
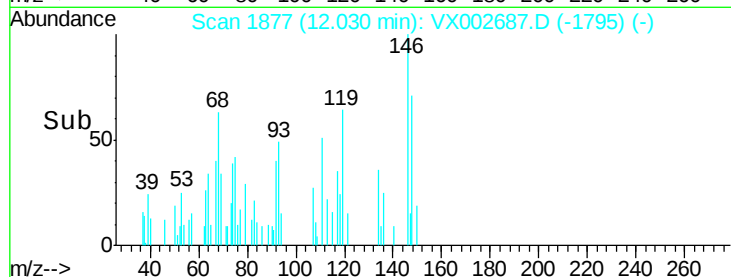
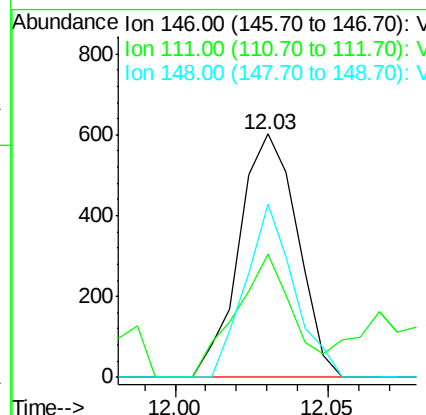
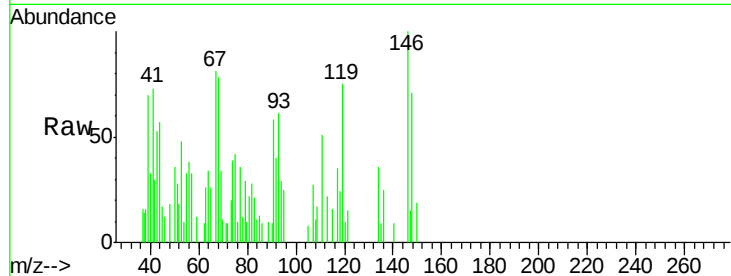




#83  
 1,3-Dichlorobenzene  
 Concen: 0.13 ug/l  
 RT: 12.03 min Scan# 1877  
 Delta R.T. -0.00 min  
 Lab File: VX002687.D  
 Acq: 18 Jun 2018 18:48

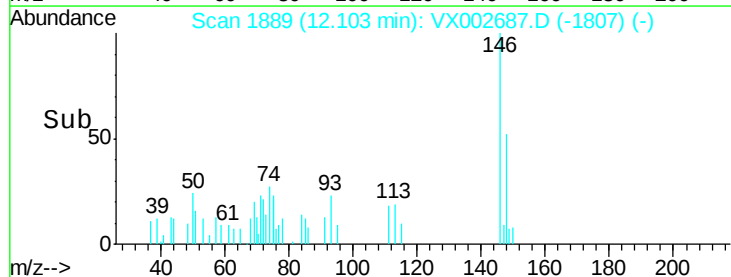
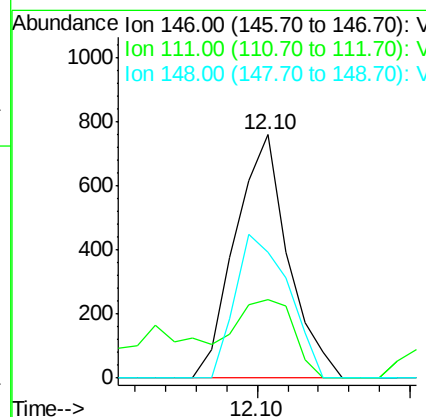
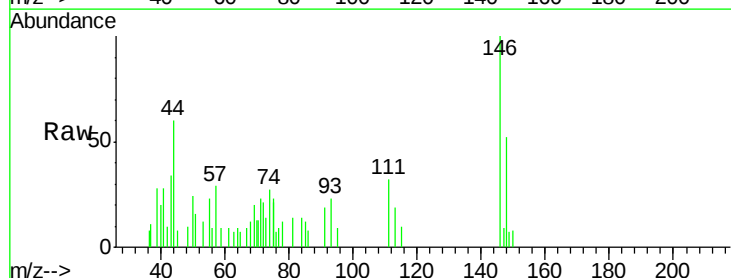
Instrument :  
 MSVOA\_X  
 ClientSampled :

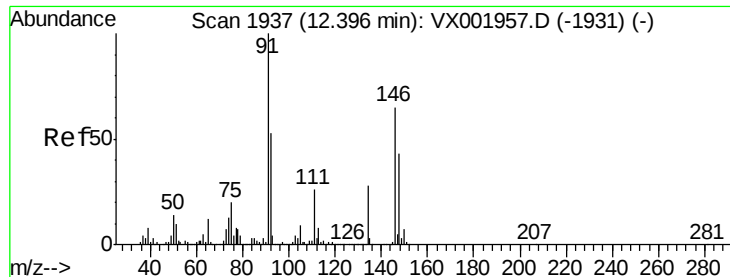
Tot Ion:146 Resp: 795  
 Ion Ratio Lower Upper  
 146 100  
 111 50.2 19.1 57.5  
 148 59.6 31.9 95.7



#84  
 1,4-Dichlorobenzene  
 Concen: 0.15 ug/l  
 RT: 12.10 min Scan# 1889  
 Delta R.T. -0.00 min  
 Lab File: VX002687.D  
 Acq: 18 Jun 2018 18:48

Tgt Ion:146 Resp: 910  
 Ion Ratio Lower Upper  
 146 100  
 111 35.8 18.5 55.5  
 148 59.3 32.0 96.0





#85

n-Butylbenzene

Concen: 0.19 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. 0.01 min

Lab File: VX002687.D

Acq: 18 Jun 2018 18:48

Instrument :

MSVOA\_X

ClientSampleId :

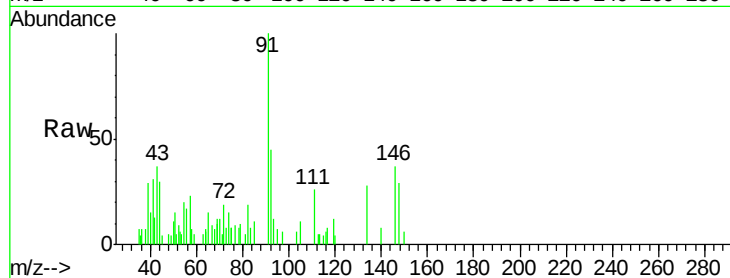
Tot Ion: 91 Resp: 1839

Ion Ratio Lower Upper

91 100

92 46.4 0.0 105.2

134 52.5 0.0 53.2

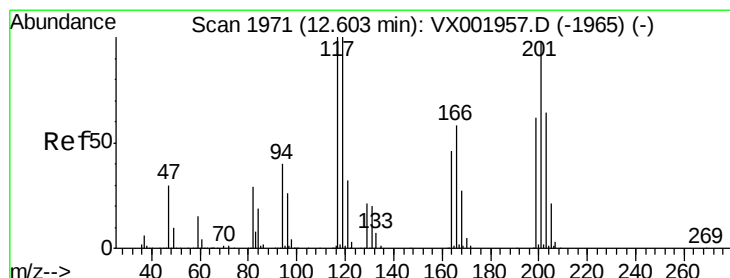
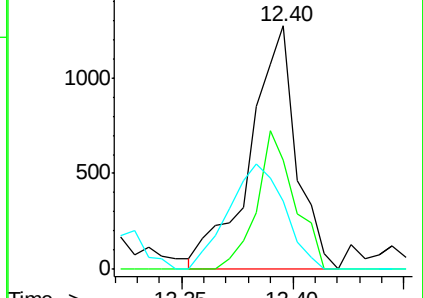
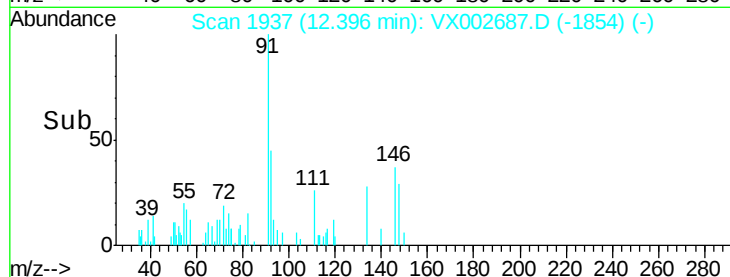


Abundance Ion 91.00 (90.70 to 91.70): VX001957.D (-1931) (-)

Ion 92.00 (91.70 to 92.70): VX001957.D (-1931) (-)

Ion 134.00 (133.70 to 134.70): VX001957.D (-1931) (-)

Time-->



#86

Hexachloroethane

Concen: 0.13 ug/l

RT: 12.59 min Scan# 1969

Delta R.T. -0.01 min

Lab File: VX002687.D

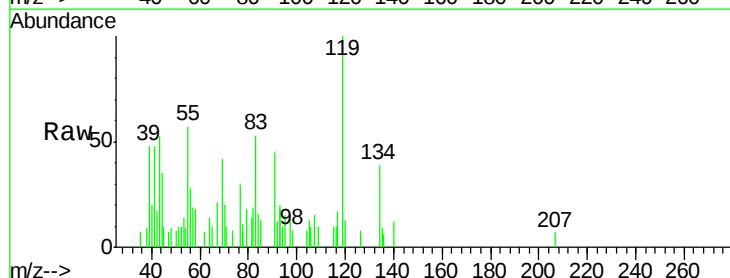
Acq: 18 Jun 2018 18:48

Tgt Ion: 117 Resp: 205

Ion Ratio Lower Upper

117 100

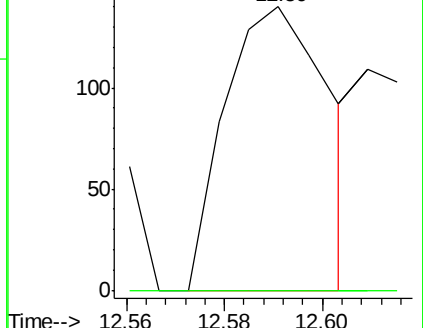
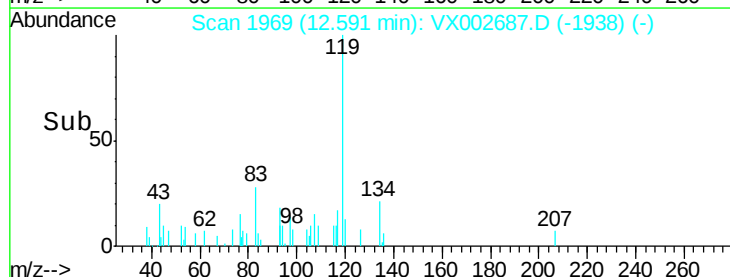
201 0.0 47.6 142.8#

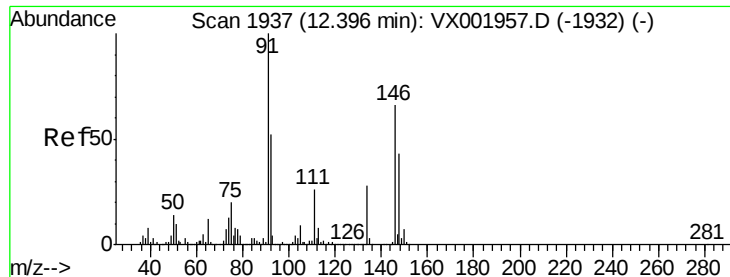


Abundance Ion 117.00 (116.70 to 117.70): VX001957.D (-1965) (-)

Ion 201.00 (200.70 to 201.70): VX001957.D (-1965) (-)

Time-->

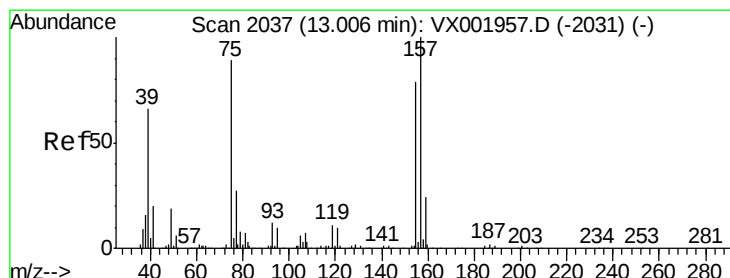
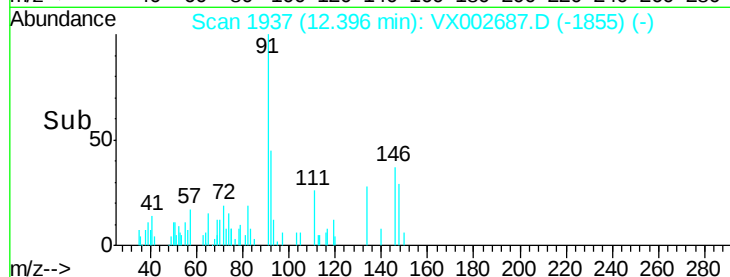
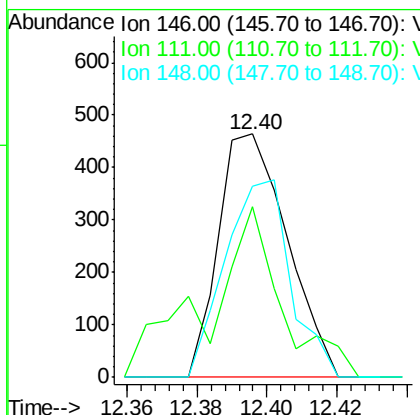
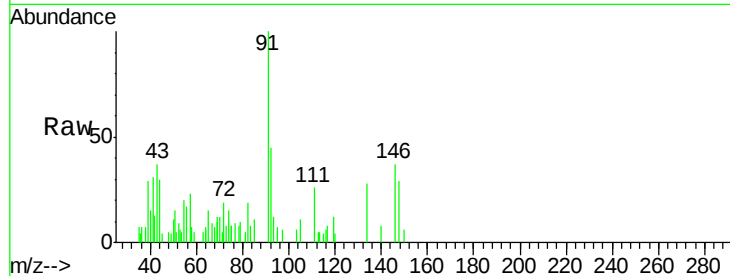




#87  
 1,2-Dichlorobenzene  
 Concen: 0.11 ug/l  
 RT: 12.40 min Scan# 1937  
 Delta R.T. -0.00 min  
 Lab File: VX002687.D  
 Acq: 18 Jun 2018 18:48

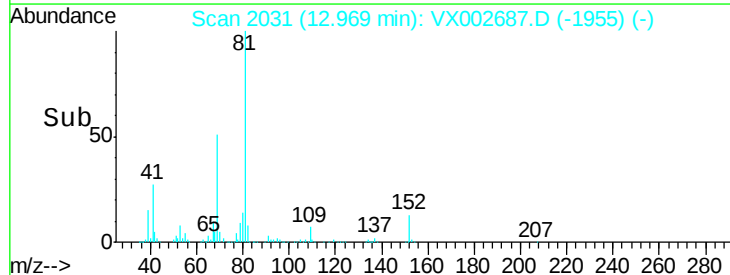
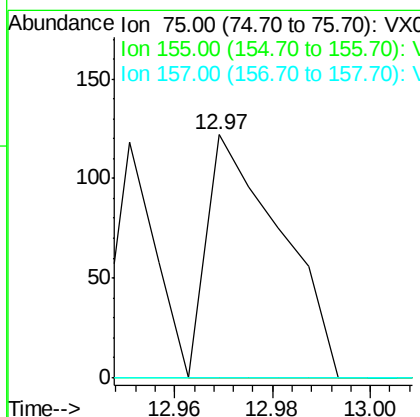
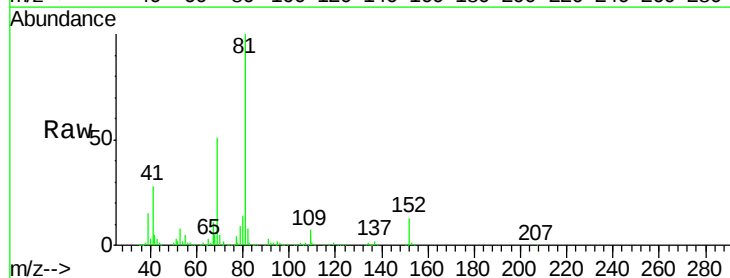
Instrument :  
 MSVOA\_X  
 ClientSampleId :

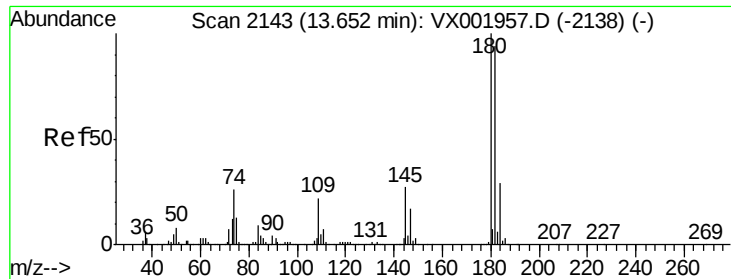
Tot Ion:146 Resp: 634  
 Ion Ratio Lower Upper  
 146 100  
 111 43.8 20.0 59.9  
 148 76.8 32.8 98.3



#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 0.17 ug/l  
 RT: 12.97 min Scan# 2031  
 Delta R.T. -0.04 min  
 Lab File: VX002687.D  
 Acq: 18 Jun 2018 18:48

Tgt Ion: 75 Resp: 128  
 Ion Ratio Lower Upper  
 75 100  
 155 0.0 73.1 109.7#  
 157 0.0 93.1 139.7#

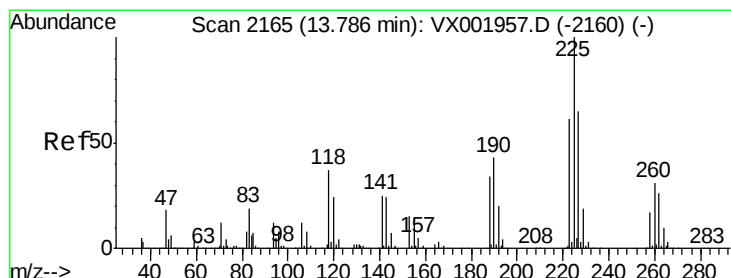
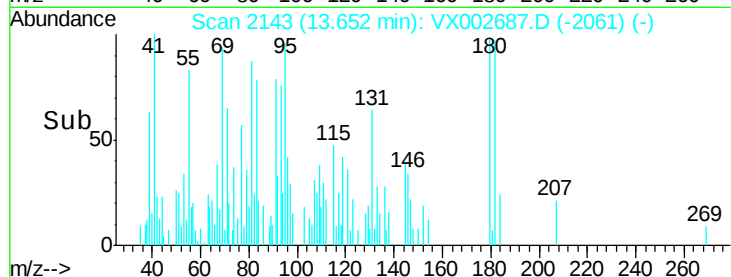
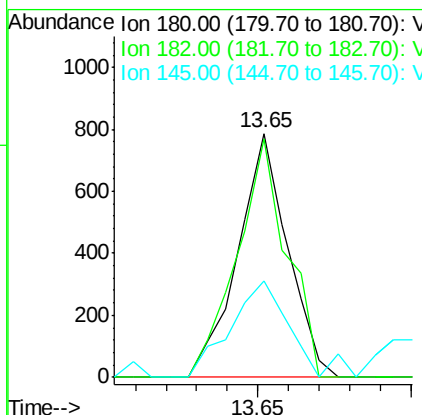
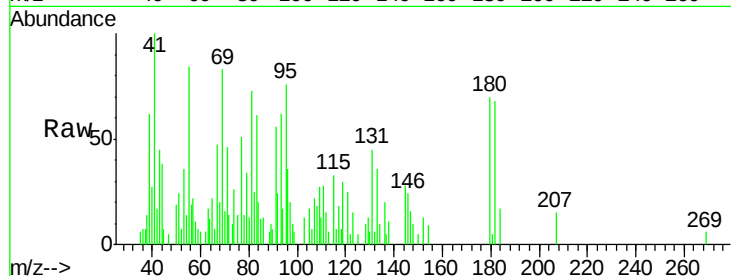




#89  
 1,2,4-Trichlorobenzene  
 Concen: 0.20 ug/l  
 RT: 13.65 min Scan# 2143  
 Delta R.T. -0.00 min  
 Lab File: VX002687.D  
 Acq: 18 Jun 2018 18:48

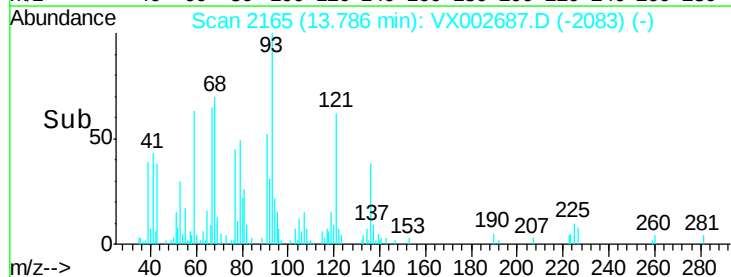
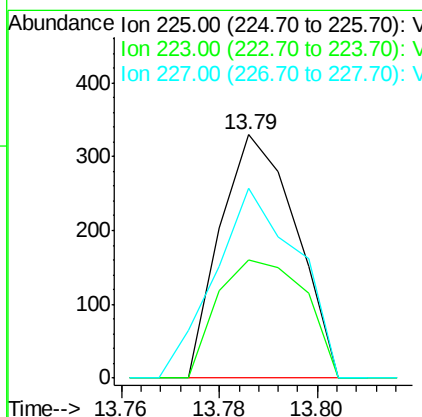
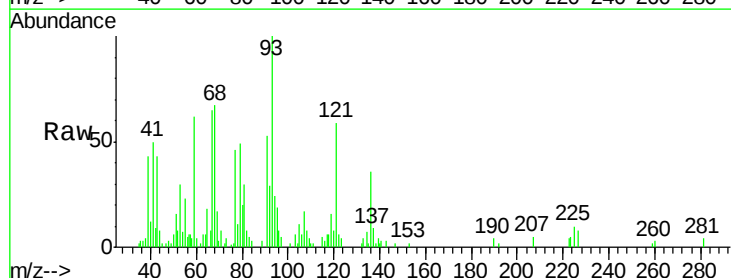
Instrument :  
 MSVOA\_X  
 ClientSampleId :

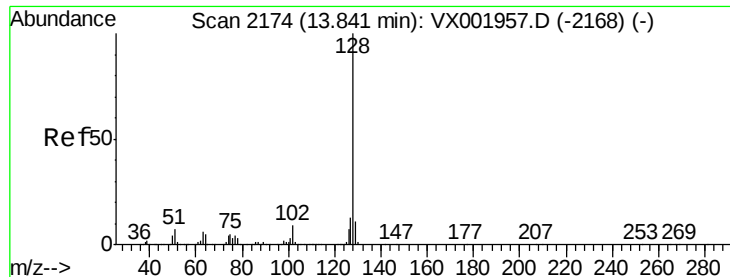
Tot Ion:180 Resp: 890  
 Ion Ratio Lower Upper  
 180 100  
 182 97.9 76.4 114.6  
 145 44.6 22.9 34.3#



#90  
 Hexachlorobutadiene  
 Concen: 0.15 ug/l  
 RT: 13.79 min Scan# 2165  
 Delta R.T. -0.00 min  
 Lab File: VX002687.D  
 Acq: 18 Jun 2018 18:48

Tgt Ion:225 Resp: 353  
 Ion Ratio Lower Upper  
 225 100  
 223 56.4 0.0 122.4  
 227 85.8 0.0 128.0

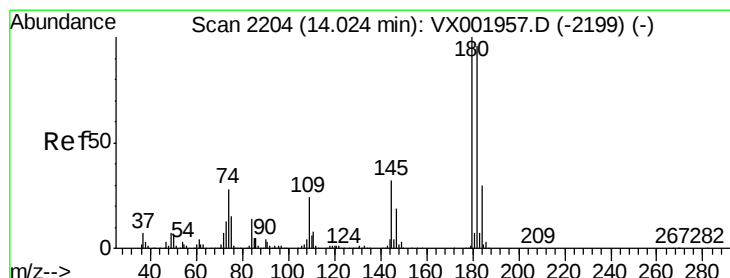
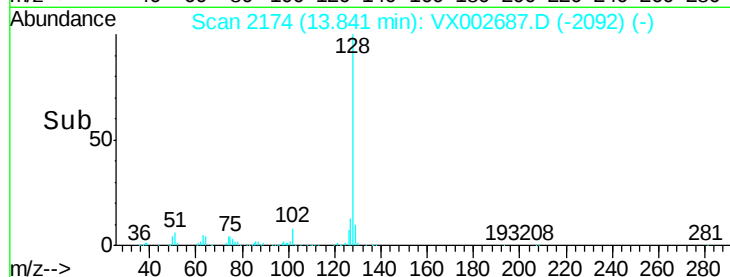
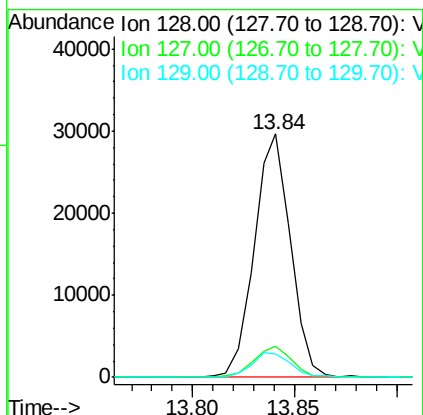
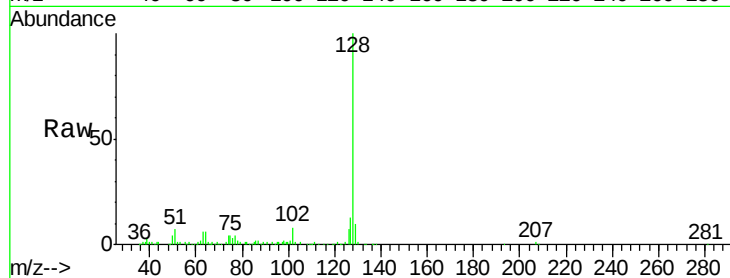




#91  
Naphthalene  
Concen: 3.06 ug/l  
RT: 13.84 min Scan# 2174  
Delta R.T. -0.00 min  
Lab File: VX002687.D  
Acq: 18 Jun 2018 18:48

Instrument :  
MSVOA\_X  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.2  | 10.3  | 15.5  |
| 129     | 11.1  | 8.9   | 13.3  |



#92  
1,2,3-Trichlorobenzene  
Concen: 0.20 ug/l  
RT: 13.65 min Scan# 2143  
Delta R.T. -0.37 min  
Lab File: VX002687.D  
Acq: 18 Jun 2018 18:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 97.9  | 0.0   | 191.0 |
| 145     | 44.6  | 0.0   | 60.6  |

