

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX043018\  
 Data File : VX001258.D  
 Acq On : 30 Apr 2018 11:52  
 Operator : JC/MD  
 Sample : VSTDIC100  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC100

Quant Time: Apr 30 13:06:05 2018  
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X043018W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Apr 30 12:56:30 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.03  | 128  | 39948    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.87  | 114  | 219594   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.12 | 117  | 207212   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.07   | 65    | 85911    | 27.79    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 92.63%  |
| 60) 4-Bromofluorobenzene  | 11.14  | 95    | 108918   | 32.13    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 107.10% |
| 63) Toluene-d8            | 8.72   | 98    | 269634   | 30.38    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 101.27% |

## Target Compounds

|                               |      |     |        |         | Ovalue     |
|-------------------------------|------|-----|--------|---------|------------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 262842 | 106.022 | ug/l 98    |
| 3) Chloromethane              | 1.32 | 50  | 226154 | 91.012  | ug/l 97    |
| 4) Vinyl Chloride             | 1.40 | 62  | 245309 | 82.972  | ug/l 99    |
| 5) Bromomethane               | 1.64 | 94  | 180724 | 66.331  | ug/l 99    |
| 6) Chloroethane               | 1.72 | 64  | 149332 | 78.906  | ug/l 98    |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 408009 | 79.662  | ug/l 99    |
| 8) Diethyl Ether              | 2.19 | 74  | 138892 | 77.655  | ug/l 89    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101 | 226751 | 81.143  | ug/l 94    |
| 10) 1,1-Dichloroethene        | 2.38 | 96  | 208414 | 78.077  | ug/l 95    |
| 11) Methyl Iodide             | 2.51 | 142 | 294265 | 113.422 | ug/l 95    |
| 12) Methyl Acetate            | 2.78 | 43  | 278168 | 58.319  | ug/l 97    |
| 13) Acrolein                  | 2.29 | 56  | 171495 | 298.774 | ug/l 100   |
| 14) Acrylonitrile             | 3.15 | 53  | 558952 | 270.432 | ug/l 99    |
| 15) Acetone                   | 2.45 | 58  | 166008 | 246.355 | ug/l 90    |
| 16) Carbon Disulfide          | 2.57 | 76  | 575553 | 75.391  | ug/l 98    |
| 17) Allyl chloride            | 2.73 | 41  | 381151 | 83.755  | ug/l 99    |
| 18) Methylene Chloride        | 2.86 | 84  | 220284 | 75.732  | ug/l 98    |
| 19) trans-1,2-Dichloroethene  | 3.17 | 96  | 225785 | 77.747  | ug/l 91    |
| 20) Diisopropyl ether         | 3.88 | 45  | 744545 | 103.614 | ug/l 97    |
| 21) 1,1-Dichloroethane        | 3.70 | 63  | 374596 | 79.091  | ug/l 99    |
| 22) cis-1,2-Dichloroethene    | 4.60 | 96  | 248542 | 92.113  | ug/l 99    |
| 23) tert-Butyl Alcohol        | 3.07 | 59  | 231149 | 195.653 | ug/l # 100 |
| 24) Methyl tert-Butyl Ether   | 3.21 | 73  | 721460 | 78.442  | ug/l 96    |
| 25) Chloroform                | 5.23 | 83  | 422469 | 89.961  | ug/l 99    |
| 26) Cyclohexane               | 5.58 | 56  | 357058 | 96.147  | ug/l # 94  |
| 29) 1,1-Dichloropropene       | 5.81 | 75  | 320609 | 100.255 | ug/l 99    |
| 30) 2-Butanone                | 4.71 | 43  | 813720 | 330.568 | ug/l 97    |
| 31) 2,2-Dichloropropane       | 4.59 | 77  | 343353 | 99.819  | ug/l 99    |
| 32) 1,1,1-Trichloroethane     | 5.50 | 97  | 387294 | 100.090 | ug/l 99    |
| 33) Carbon Tetrachloride      | 5.79 | 117 | 355359 | 103.423 | ug/l 97    |
| 34) Benzene                   | 6.15 | 78  | 921201 | 100.107 | ug/l 96    |
| 35) Methacrylonitrile         | 5.07 | 41  | 180746 | 79.747  | ug/l 93    |
| 36) 1,2-Dichloroethane        | 6.20 | 62  | 355005 | 101.735 | ug/l 100   |
| 37) Trichloroethene           | 7.22 | 130 | 275556 | 101.309 | ug/l 96    |
| 38) Methylcyclohexane         | 7.47 | 83  | 374086 | 97.581  | ug/l 96    |
| 39) 1,2-Dichloropropane       | 7.52 | 63  | 235166 | 102.365 | ug/l 97    |
| 40) Dibromomethane            | 7.67 | 93  | 166400 | 94.009  | ug/l 87    |

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 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

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 MSVOA\_X  
 ClientSampleId :  
 VSTDICC100

Quant Time: Apr 30 13:06:05 2018  
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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Apr 30 12:56:30 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 41) Bromodichloromethane       | 7.90  | 83   | 326796   | 97.133   | ug/l   | 98       |
| 42) Vinyl Acetate              | 3.83  | 43   | 3221747  | 513.492  | ug/l   | 98       |
| 43) Ethyl Acetate              | 4.87  | 43   | 318106   | 73.572   | ug/l   | 99       |
| 44) Isopropyl Acetate          | 6.47  | 43   | 550469   | 86.771   | ug/l   | 98       |
| 45) 1,4-Dioxane                | 7.76  | 88   | 97384    | 1220.565 | ug/l   | 96       |
| 46) Methyl methacrylate        | 7.79  | 41   | 287926   | 93.313   | ug/l   | 91       |
| 47) n-amyl Acetate             | 10.90 | 43   | 559030   | 100.934  | ug/l   | 98       |
| 48) t-1,3-Dichloropropene      | 8.45  | 75   | 391429   | 99.941   | ug/l   | 98       |
| 49) cis-1,3-Dichloropropene    | 9.05  | 75   | 380936   | 99.946   | ug/l   | 94       |
| 50) 1,1,2-Trichloroethane      | 9.22  | 97   | 245762   | 94.561   | ug/l   | 98       |
| 51) Ethyl methacrylate         | 9.19  | 69   | 376184   | 94.476   | ug/l   | 94       |
| 52) 1,3-Dichloropropane        | 9.38  | 76   | 398910   | 95.695   | ug/l   | 100      |
| 53) Dibromochloromethane       | 9.59  | 129  | 292463   | 101.142  | ug/l   | 97       |
| 54) 1,2-Dibromoethane          | 9.68  | 107  | 268629   | 92.737   | ug/l   | 98       |
| 55) 2-Chloroethyl vinyl ether  | 8.32  | 63   | 892325   | 513.223  | ug/l   | 100      |
| 56) Bromoform                  | 10.86 | 173  | 251758   | 107.506  | ug/l # | 97       |
| 58) 4-Methyl-2-Pentanone       | 8.66  | 43   | 1753865  | 386.427  | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.51  | 43   | 1380692  | 359.251  | ug/l   | 97       |
| 61) Tetrachloroethene          | 9.34  | 164  | 289941   | 115.238  | ug/l   | 91       |
| 62) Toluene                    | 8.79  | 91   | 1079783  | 100.155  | ug/l   | 99       |
| 64) Chlorobenzene              | 10.15 | 112  | 723052   | 99.247   | ug/l   | 99       |
| 65) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 274779   | 106.482  | ug/l   | 96       |
| 66) Ethyl Benzene              | 10.26 | 91   | 1219719  | 99.116   | ug/l   | 98       |
| 67) m/p-Xylenes                | 10.37 | 106  | 974609   | 202.025  | ug/l   | 100      |
| 68) o-Xylene                   | 10.71 | 106  | 474602   | 101.284  | ug/l   | 100      |
| 69) Styrene                    | 10.72 | 104  | 809445   | 104.280  | ug/l   | 99       |
| 70) Isopropylbenzene           | 11.02 | 105  | 1283275  | 101.313  | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 389269   | 89.314   | ug/l   | 99       |
| 72) 1,2,3-Trichloropropane     | 11.30 | 75   | 449940   | 115.089  | ug/l   | 82       |
| 73) Bromobenzene               | 11.26 | 156  | 371385   | 111.837  | ug/l   | 97       |
| 74) n-propylbenzene            | 11.37 | 91   | 1463869  | 98.596   | ug/l   | 99       |
| 75) 2-Chlorotoluene            | 11.43 | 91   | 879941   | 103.088  | ug/l   | 100      |
| 76) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 1110033  | 103.410  | ug/l   | 68       |
| 77) t-1,4-Dichloro-2-butene    | 11.08 | 75   | 116964   | 84.604   | ug/l   | 92       |
| 78) 4-Chlorotoluene            | 11.52 | 91   | 1063697  | 104.016  | ug/l   | 100      |
| 79) tert-butylbenzene          | 12.07 | 119  | 1188634  | 111.252  | ug/l   | 94       |
| 80) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 1119961  | 102.280  | ug/l   | 99       |
| 81) sec-Butylbenzene           | 11.95 | 105  | 1284450  | 97.250   | ug/l   | 99       |
| 82) p-Isopropyltoluene         | 12.07 | 119  | 1188634  | 100.880  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene        | 12.03 | 146  | 682436   | 107.938  | ug/l   | 98       |
| 84) 1,4-Dichlorobenzene        | 12.10 | 146  | 696268   | 105.667  | ug/l   | 99       |
| 85) n-Butylbenzene             | 12.40 | 91   | 1056709  | 95.620   | ug/l   | 98       |
| 86) Hexachloroethane           | 12.60 | 117  | 194677   | 98.911   | ug/l   | 71       |
| 87) 1,2-Dichlorobenzene        | 12.40 | 146  | 682597   | 108.947  | ug/l   | 98       |
| 88) 1,2-Dibromo-3-Chloropropan | 13.01 | 75   | 85683    | 70.306   | ug/l   | 96       |
| 89) 1,2,4-Trichlorobenzene     | 13.65 | 180  | 522201   | 113.484  | ug/l   | 98       |
| 90) Hexachlorobutadiene        | 13.79 | 225  | 240311   | 121.217  | ug/l   | 97       |
| 91) Naphthalene                | 13.84 | 128  | 1381688  | 85.923   | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene     | 14.02 | 180  | 509134   | 110.054  | ug/l   | 97       |

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Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC100

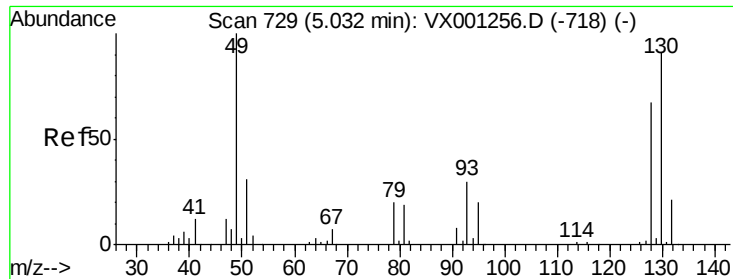
Quant Time: Apr 30 13:06:05 2018  
Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X043018W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Mon Apr 30 12:56:30 2018  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

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





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.03 min Scan# 729

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

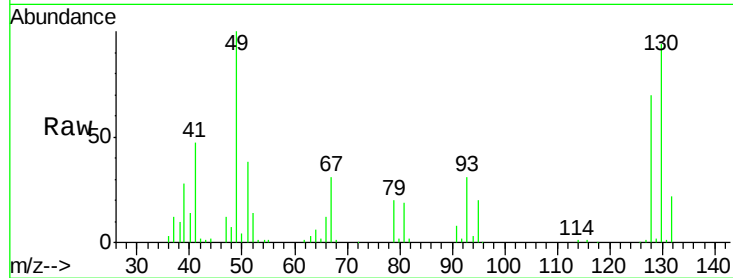
Tot Ion:128 Resp: 39948

Ion Ratio Lower Upper

128 100

49 153.0 0.0 378.3

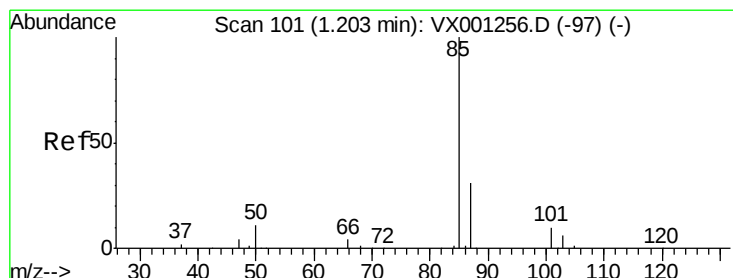
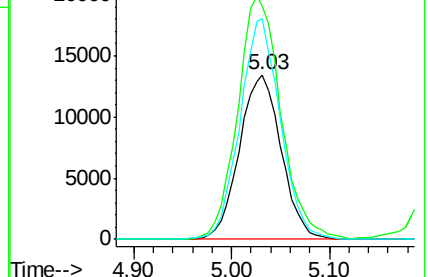
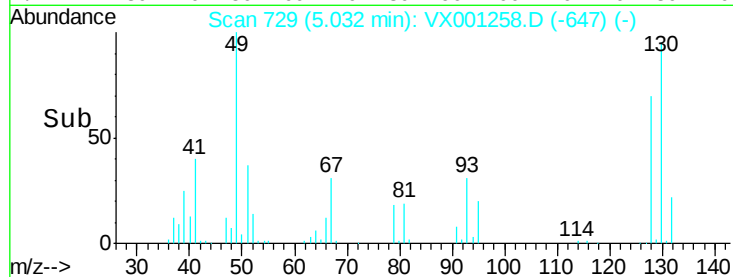
130 129.6 0.0 324.3



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: 106.022 ug/l

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX001258.D

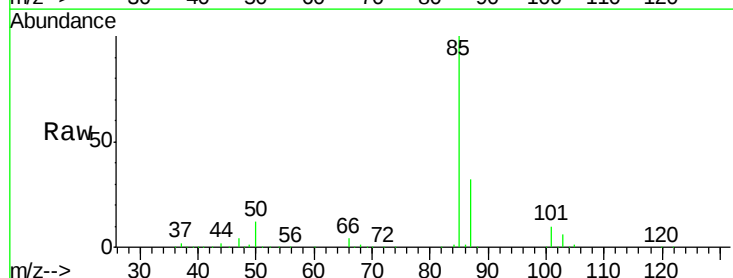
Acq: 30 Apr 2018 11:52

Tgt Ion: 85 Resp: 262842

Ion Ratio Lower Upper

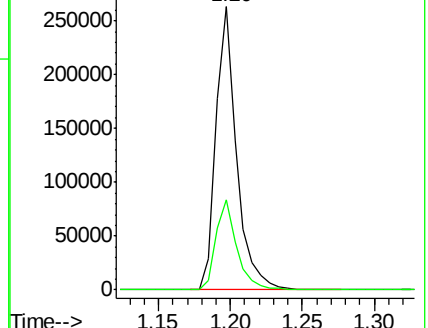
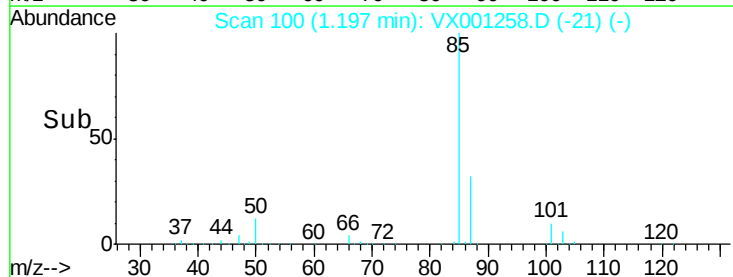
85 100

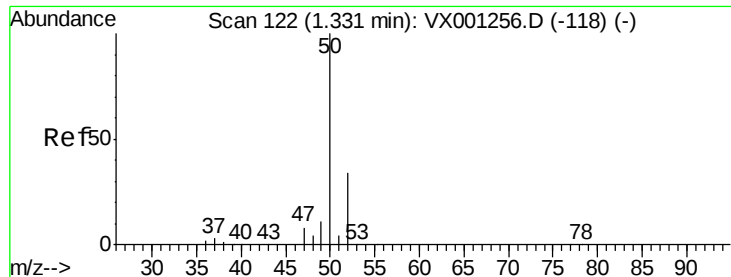
87 32.0 16.6 49.7



Abundance Ion 85.00 (84.70 to 85.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#3

Chloromethane

Concen: 91.012 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

Instrument :

MSVOA\_X

ClientSampleId :

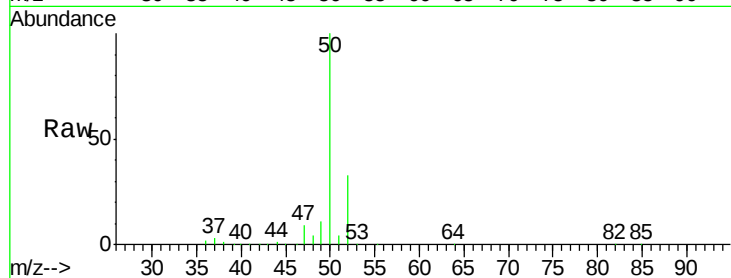
VSTDICC100

Tot Ion: 50 Resp: 226154

Ion Ratio Lower Upper

50 100

52 32.9 27.8 41.6



Abundance Ion 50.00 (49.70 to 50.70): VX001256.D (-118) (-)

Ion 52.00 (51.70 to 52.70): VX001256.D (-118) (-)

1.32

250000

200000

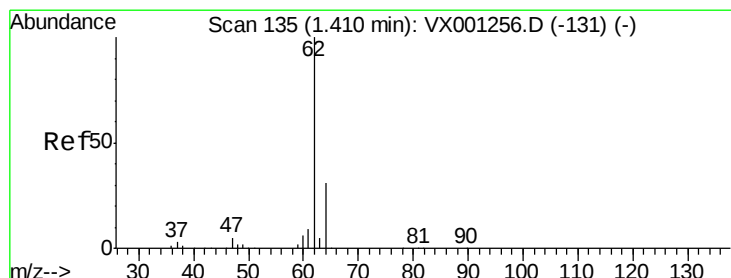
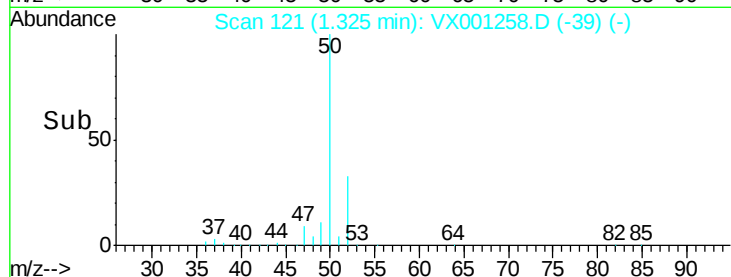
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 82.972 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX001258.D

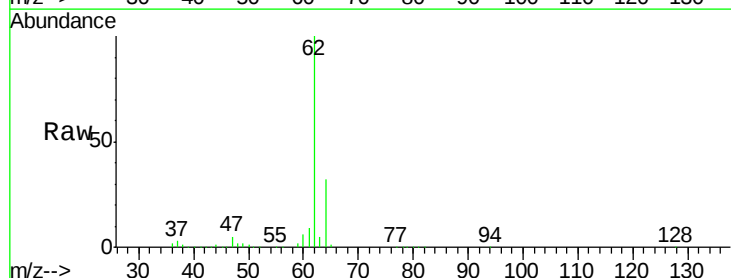
Acq: 30 Apr 2018 11:52

Tgt Ion: 62 Resp: 245309

Ion Ratio Lower Upper

62 100

64 32.0 26.0 39.0



Abundance Ion 62.00 (61.70 to 62.70): VX001256.D (-131) (-)

Ion 64.00 (63.70 to 64.70): VX001256.D (-131) (-)

1.40

250000

200000

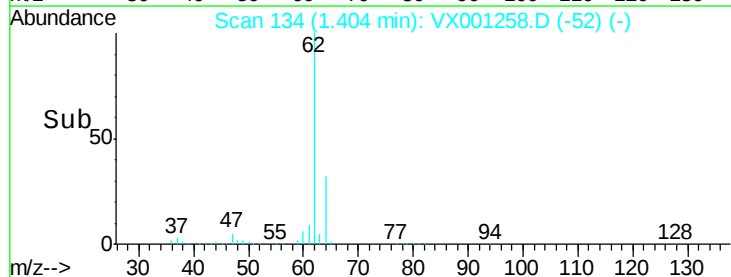
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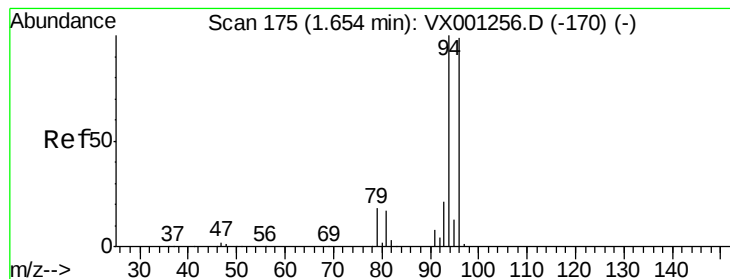
100000

50000

0

Time-->





#5

Bromomethane

Concen: 66.331 ug/l

RT: 1.64 min Scan# 172

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

Instrument :

MSVOA\_X

ClientSampleId :

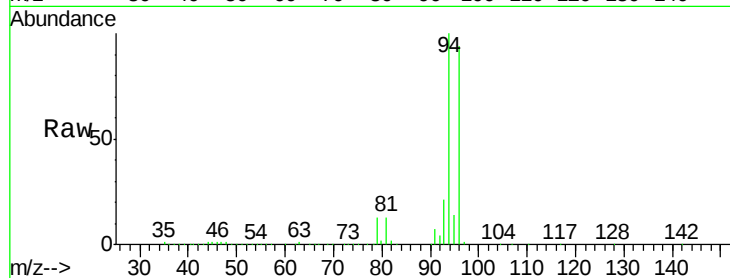
VSTDIC100

Tot Ion: 94 Resp: 180724

Ion Ratio Lower Upper

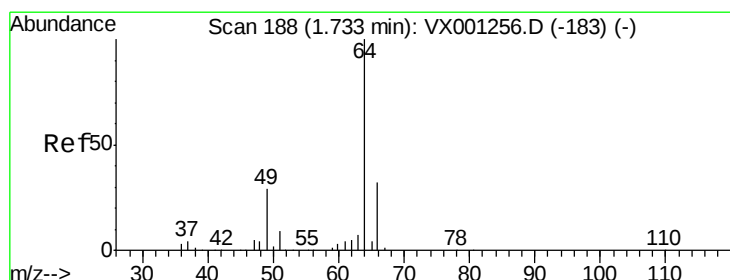
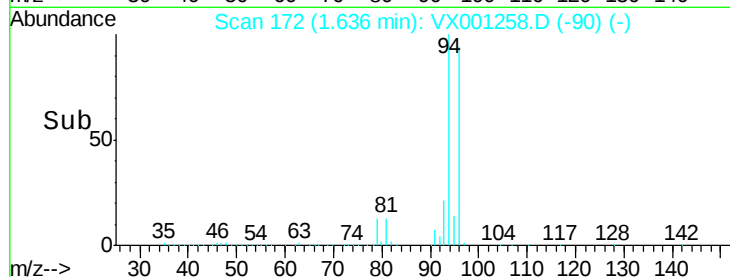
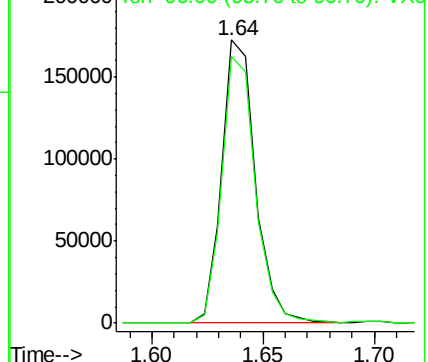
94 100

96 94.2 76.2 114.2



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0



#6

Chloroethane

Concen: 78.906 ug/l

RT: 1.72 min Scan# 186

Delta R.T. 0.00 min

Lab File: VX001258.D

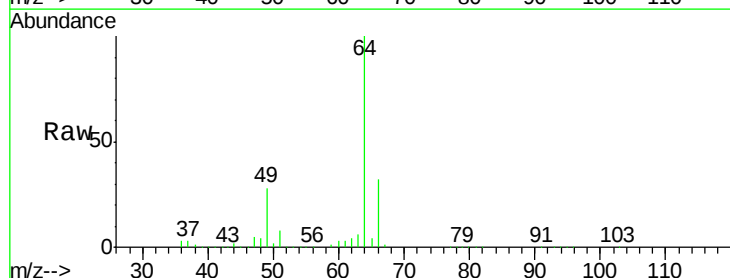
Acq: 30 Apr 2018 11:52

Tgt Ion: 64 Resp: 149332

Ion Ratio Lower Upper

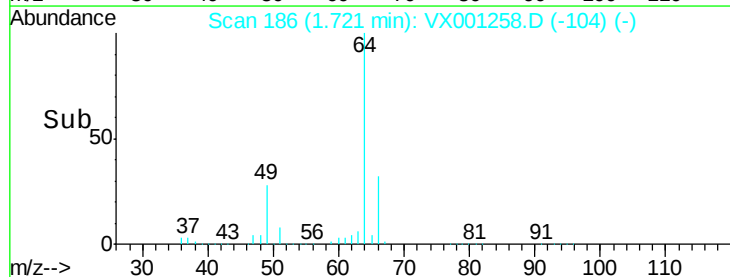
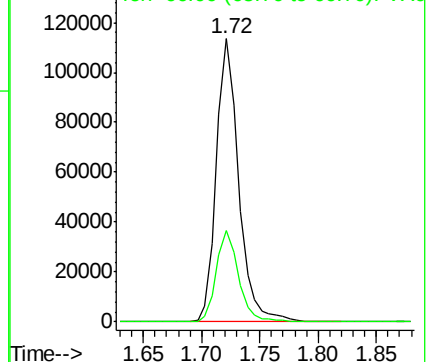
64 100

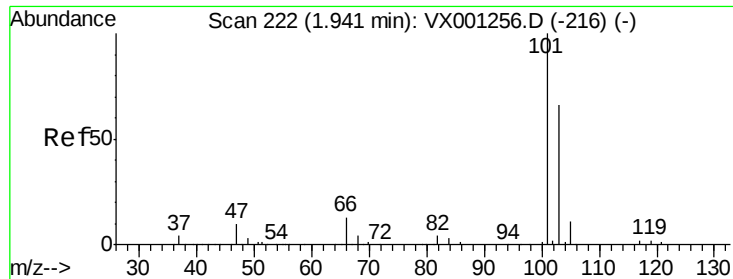
66 32.4 25.2 37.8



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0



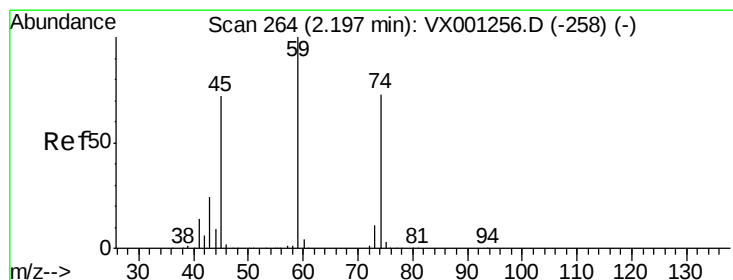
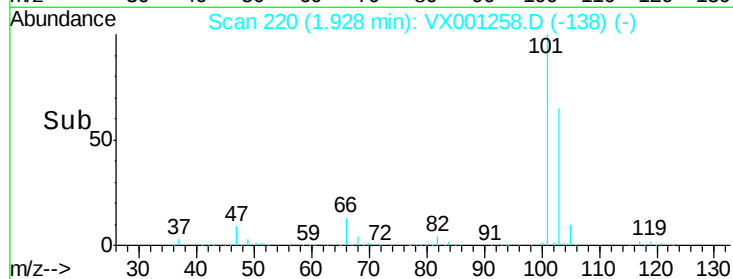
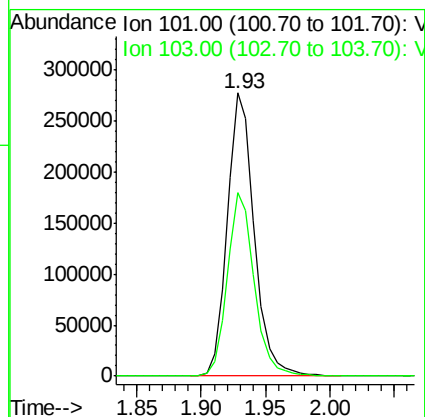
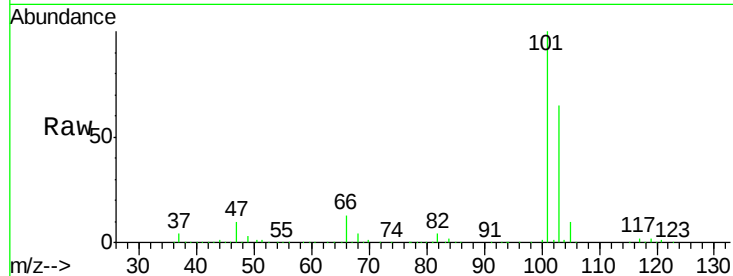


#7

Trichlorofluoromethane  
 Concen: 79.662 ug/l  
 RT: 1.93 min Scan# 220  
 Delta R.T. 0.00 min  
 Lab File: VX001258.D  
 Acq: 30 Apr 2018 11:52

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC100

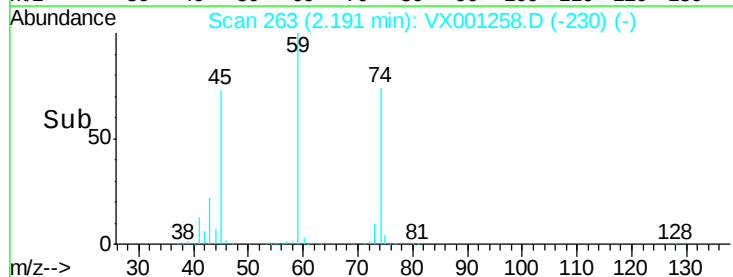
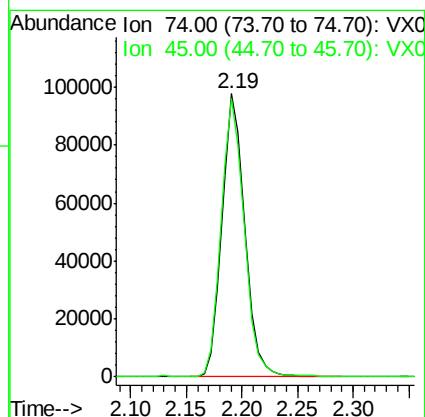
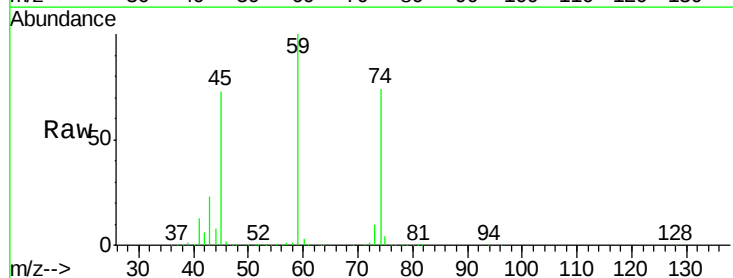
Tot Ion:101 Resp: 408009  
 Ion Ratio Lower Upper  
 101 100  
 103 64.9 52.2 78.4

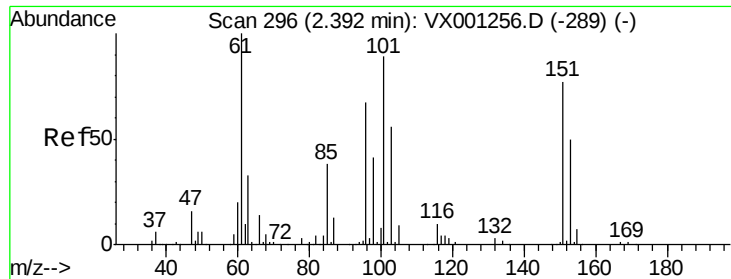


#8

Diethyl Ether  
 Concen: 77.655 ug/l  
 RT: 2.19 min Scan# 263  
 Delta R.T. 0.00 min  
 Lab File: VX001258.D  
 Acq: 30 Apr 2018 11:52

Tgt Ion: 74 Resp: 138892  
 Ion Ratio Lower Upper  
 74 100  
 45 99.2 17.8 159.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 81.143 ug/l

RT: 2.39 min Scan# 295

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

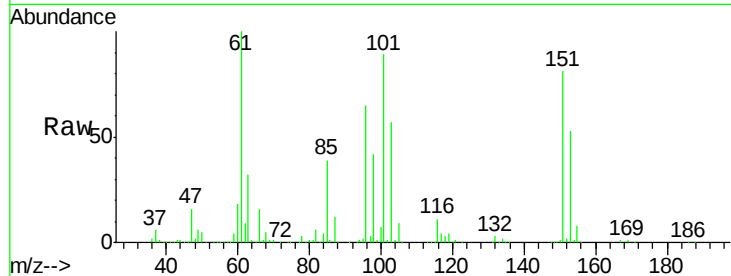
Tot Ion:101 Resp: 226751

Ion Ratio Lower Upper

101 100

85 44.1 0.0 90.4

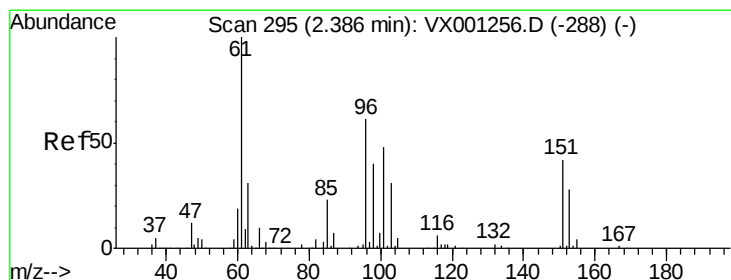
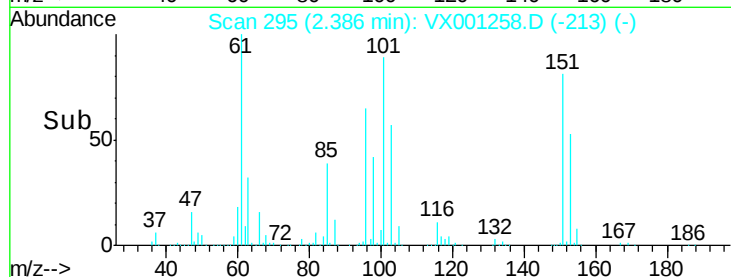
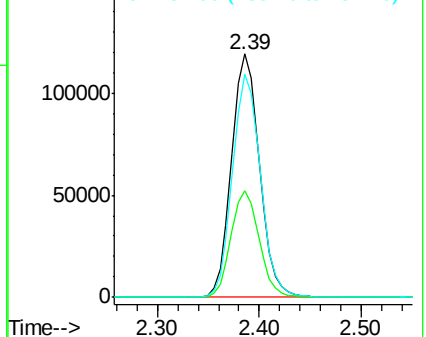
151 91.7 0.0 167.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VX0

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 78.077 ug/l

RT: 2.38 min Scan# 294

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

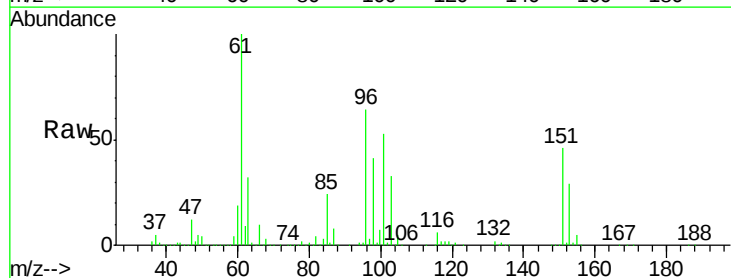
Tgt Ion: 96 Resp: 208414

Ion Ratio Lower Upper

96 100

61 156.9 118.6 178.0

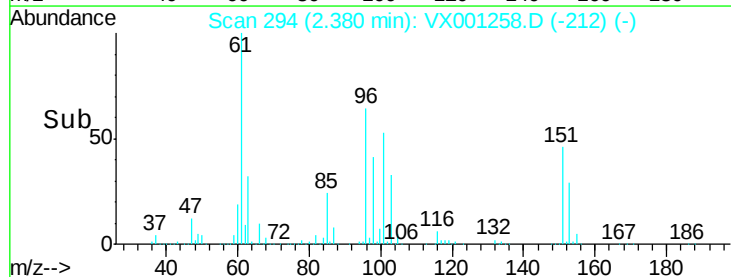
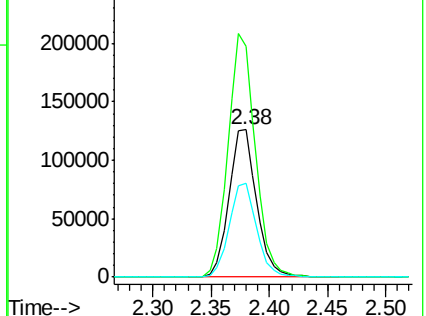
98 64.2 51.0 76.6

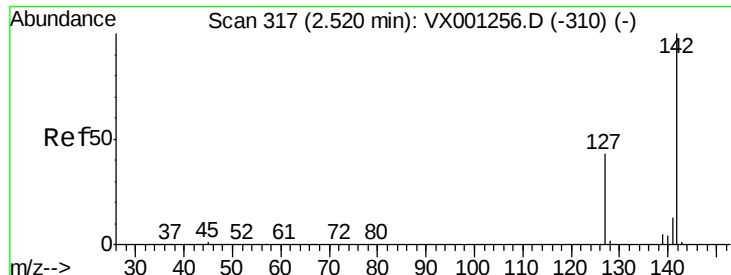


Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

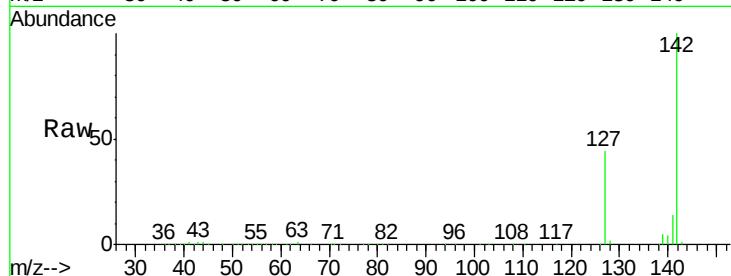




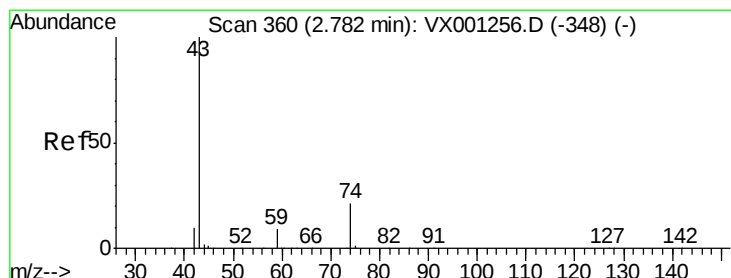
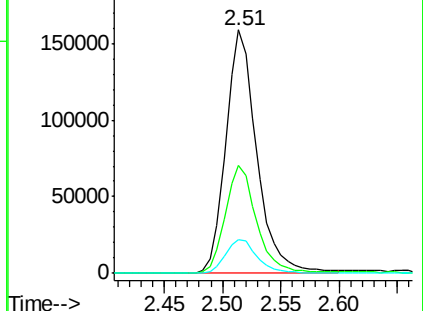
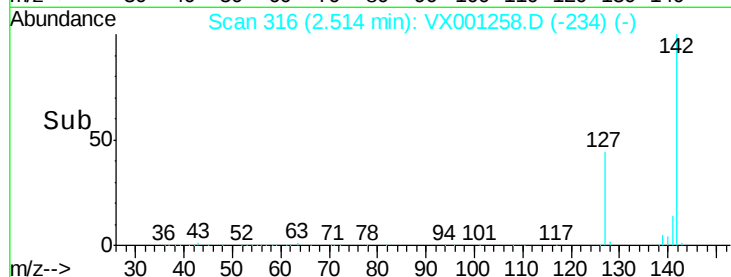
#11  
Methvl Iodide  
Concen: 113.422 ug/l  
RT: 2.51 min Scan# 316  
Delta R.T. 0.00 min  
Lab File: VX001258.D  
Acq: 30 Apr 2018 11:52

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

Tot Ion:142 Resp: 294265  
Ion Ratio Lower Upper  
142 100  
127 44.4 23.8 71.5  
141 14.1 8.2 24.4

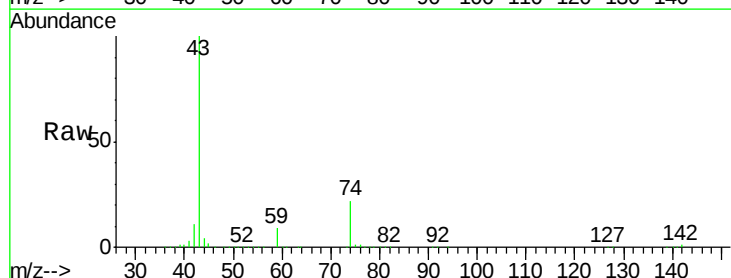


Abundance Ion 142.00 (141.70 to 142.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 141.00 (140.70 to 141.70): V

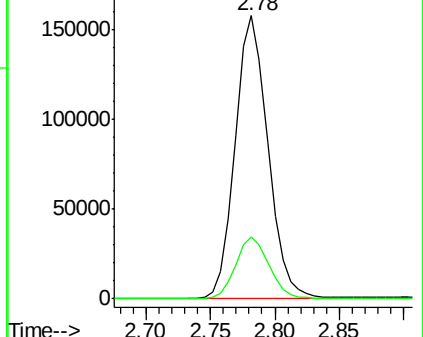
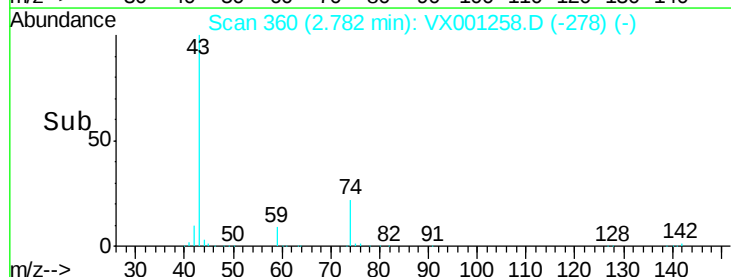


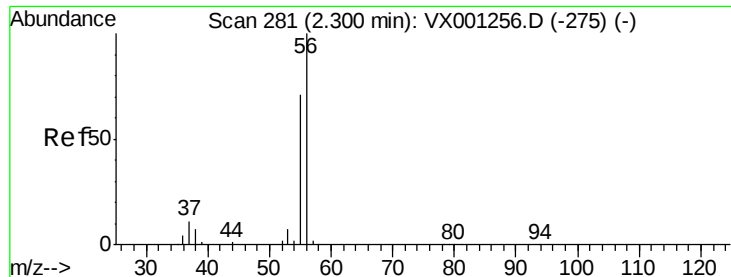
#12  
Methyl Acetate  
Concen: 58.319 ug/l  
RT: 2.78 min Scan# 360  
Delta R.T. 0.00 min  
Lab File: VX001258.D  
Acq: 30 Apr 2018 11:52

Tgt Ion: 43 Resp: 278168  
Ion Ratio Lower Upper  
43 100  
74 21.8 18.6 27.8



Abundance Ion 43.00 (42.70 to 43.70): VX0  
Ion 74.00 (73.70 to 74.70): VX0

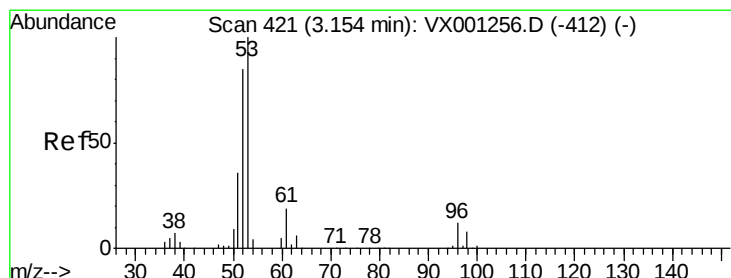
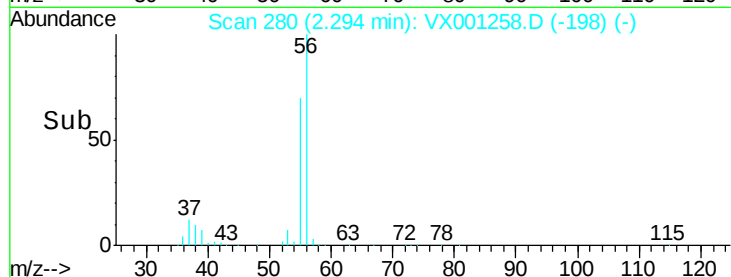
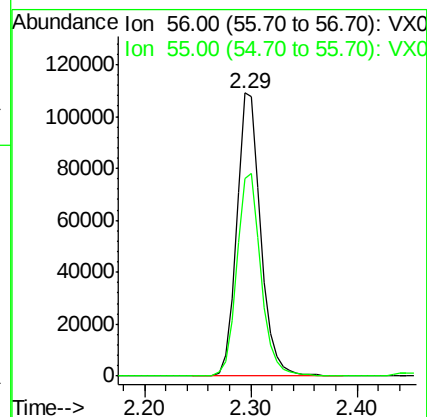
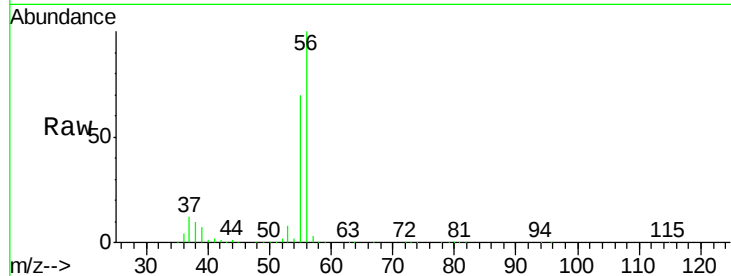




#13  
Acrolein  
Concen: 298.774 ug/l  
RT: 2.29 min Scan# 280  
Delta R.T. 0.00 min  
Lab File: VX001258.D  
Acq: 30 Apr 2018 11:52

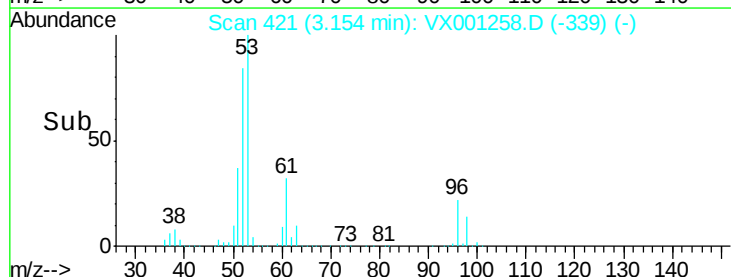
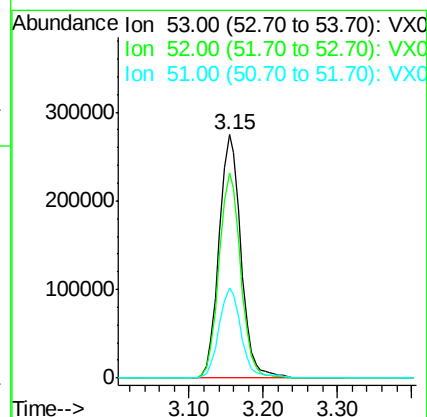
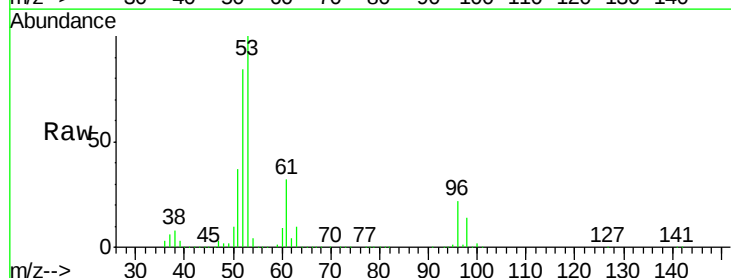
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

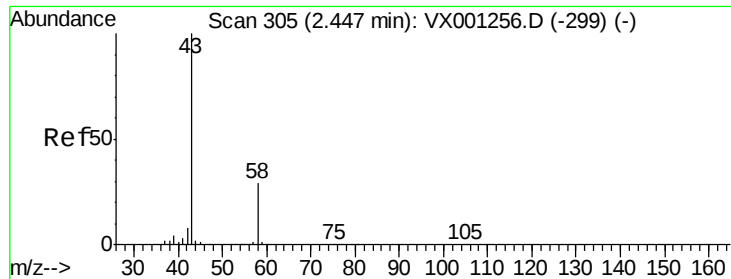
Tot Ion: 56 Resp: 171495  
Ion Ratio Lower Upper  
56 100  
55 71.3 57.3 85.9



#14  
Acrylonitrile  
Concen: 270.432 ug/l  
RT: 3.15 min Scan# 421  
Delta R.T. 0.00 min  
Lab File: VX001258.D  
Acq: 30 Apr 2018 11:52

Tgt Ion: 53 Resp: 558952  
Ion Ratio Lower Upper  
53 100  
52 82.6 41.9 125.8  
51 37.6 18.8 56.3





#15

Acetone

Concen: 246.355 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

Instrument :

MSVOA\_X

ClientSampleId :

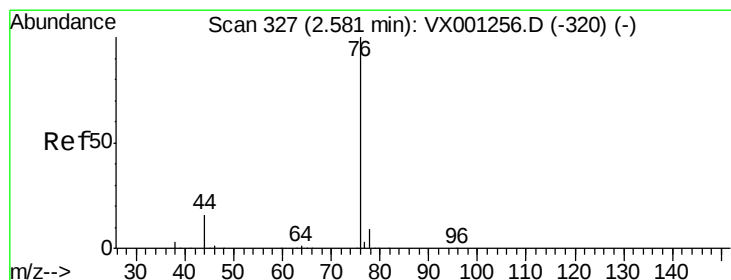
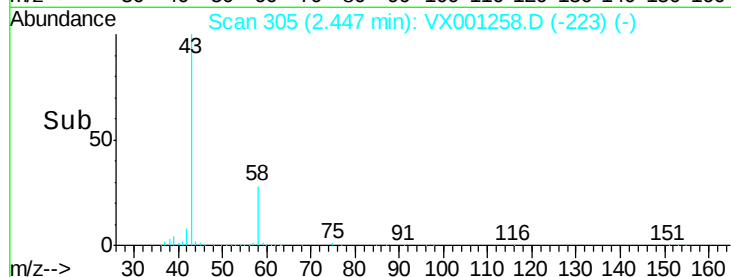
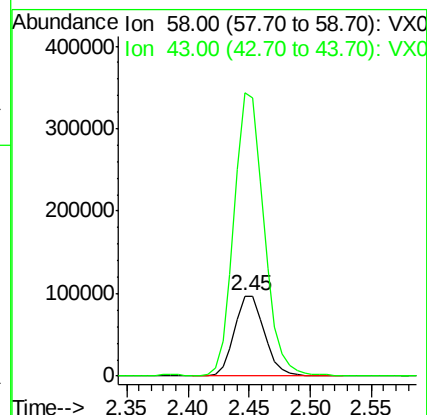
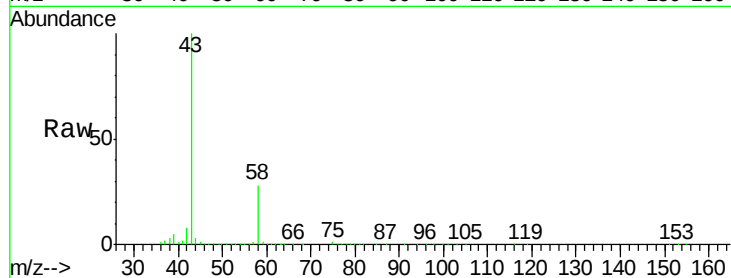
VSTDIC100

Tot Ion: 58 Resp: 166008

Ion Ratio Lower Upper

58 100

43 351.5 264.6 396.8



#16

Carbon Disulfide

Concen: 75.391 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.00 min

Lab File: VX001258.D

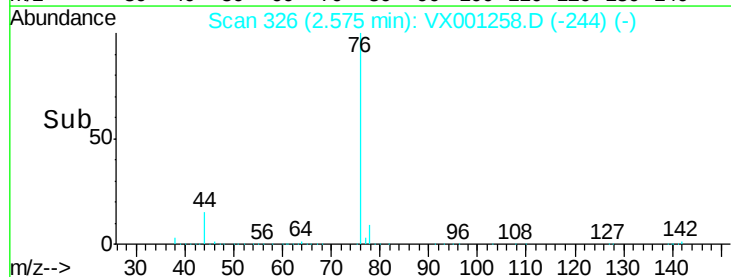
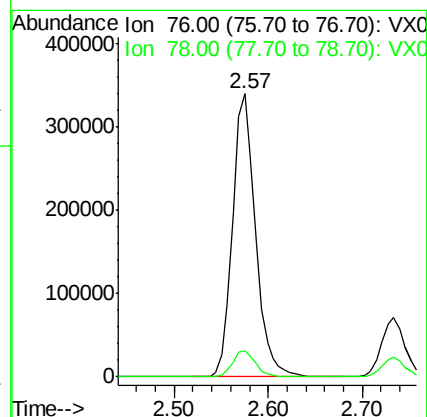
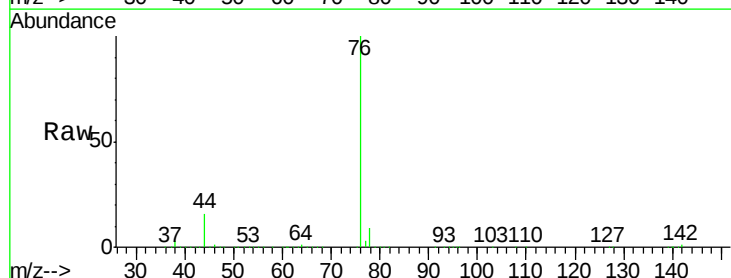
Acq: 30 Apr 2018 11:52

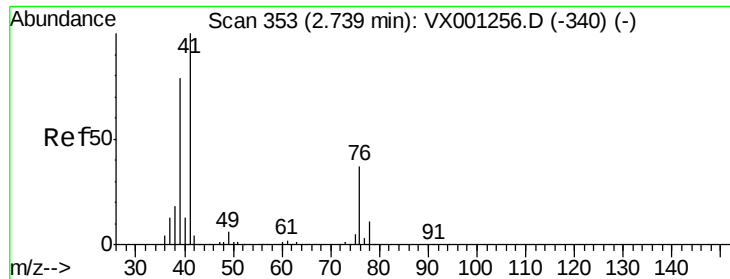
Tgt Ion: 76 Resp: 575553

Ion Ratio Lower Upper

76 100

78 9.2 6.8 10.2





#17

Allvl chloride

Concen: 83.755 ug/l

RT: 2.73 min Scan# 352

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

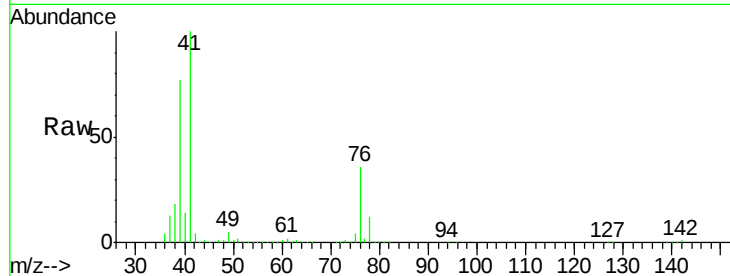
Tot Ion: 41 Resp: 381151

Ion Ratio Lower Upper

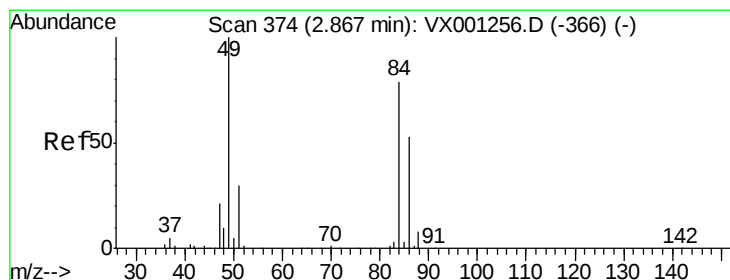
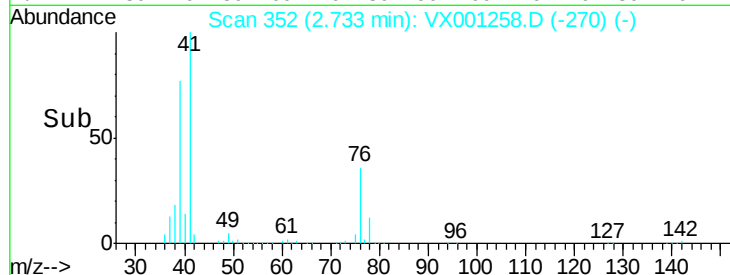
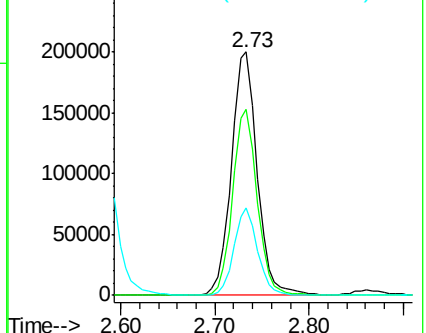
41 100

39 76.5 38.5 115.5

76 35.8 18.7 56.1



Abundance Ion 41.00 (40.70 to 41.70): VX0  
Ion 39.00 (38.70 to 39.70): VX0  
Ion 76.00 (75.70 to 76.70): VX0



#18

Methylene Chloride

Concen: 75.732 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

Tgt Ion: 84 Resp: 220284

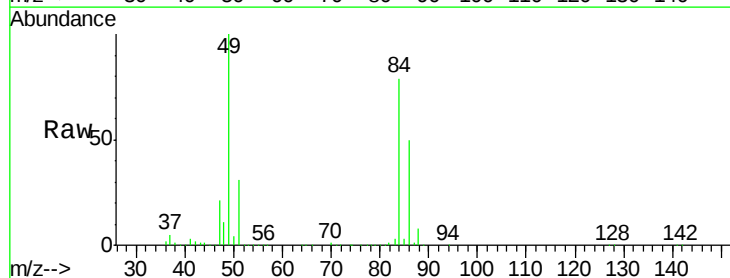
Ion Ratio Lower Upper

84 100

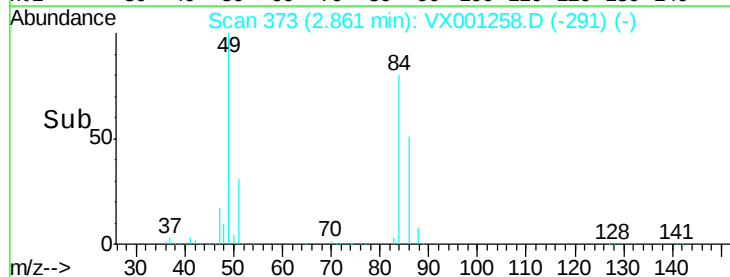
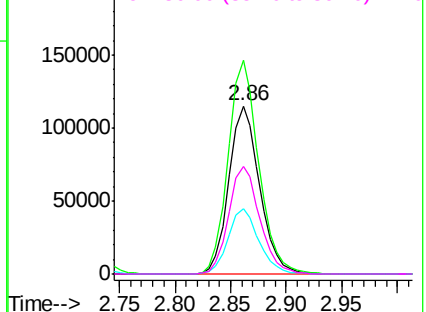
49 126.9 103.3 154.9

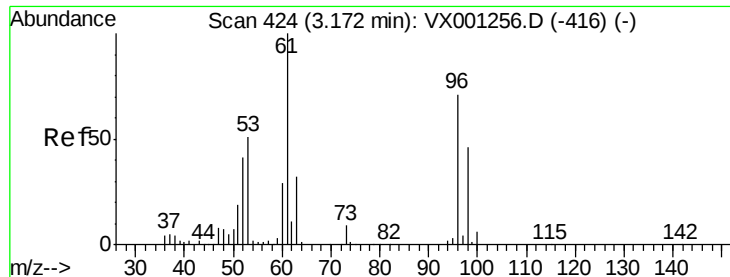
51 38.7 31.2 46.8

86 63.8 53.6 80.4



Abundance Ion 84.00 (83.70 to 84.70): VX0  
Ion 49.00 (48.70 to 49.70): VX0  
Ion 51.00 (50.70 to 51.70): VX0  
Ion 86.00 (85.70 to 86.70): VX0





#19

trans-1,2-Dichloroethene

Concen: 77.747 ug/l

RT: 3.17 min Scan# 423

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

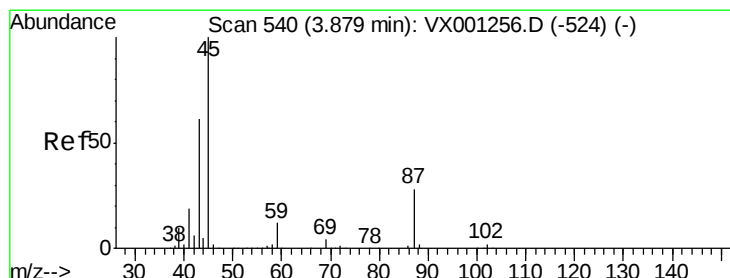
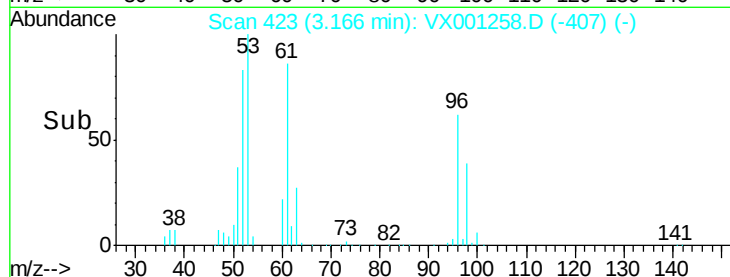
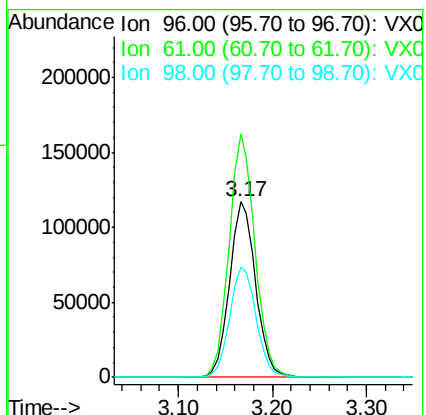
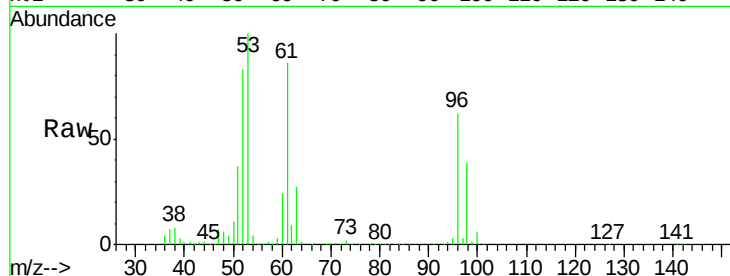
Tot Ion: 96 Resp: 225785

Ion Ratio Lower Upper

96 100

61 138.5 101.0 151.6

98 62.9 53.3 79.9



#20

Diisopropyl ether

Concen: 103.614 ug/l

RT: 3.88 min Scan# 540

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

Tgt Ion: 45 Resp: 744545

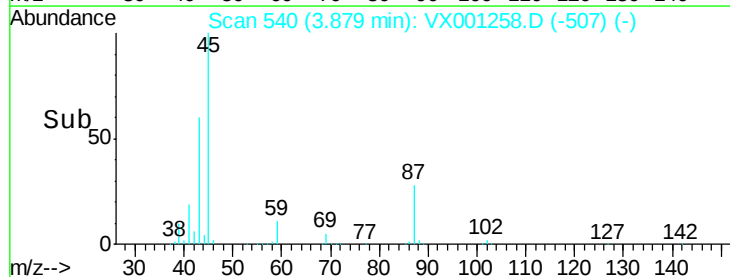
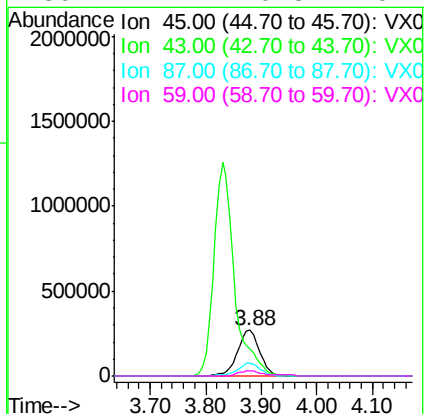
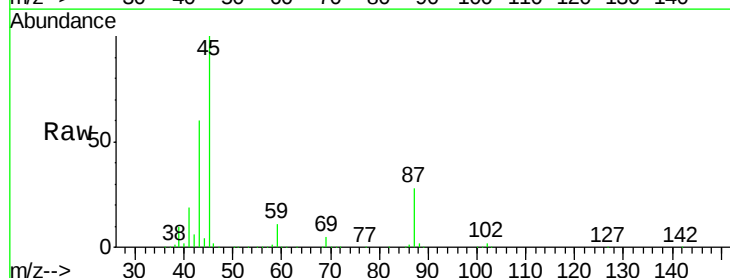
Ion Ratio Lower Upper

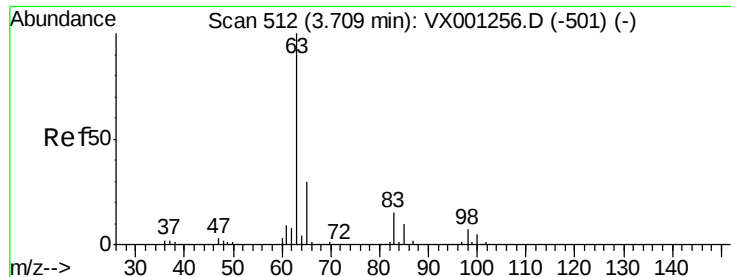
45 100

43 59.6 49.6 74.4

87 28.1 23.1 34.7

59 11.4 10.8 16.2





#21

1,1-Dichloroethane

Concen: 79.091 ug/l

RT: 3.70 min Scan# 511

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

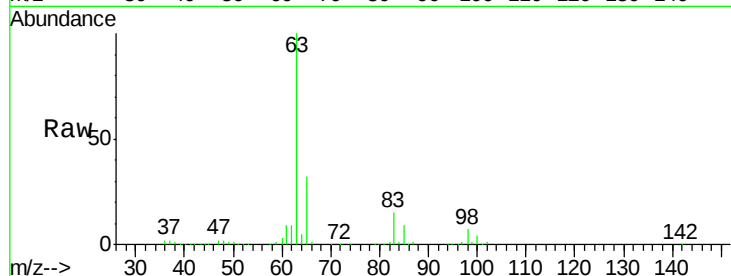
Tot Ion: 63 Resp: 374596

Ion Ratio Lower Upper

63 100

98 7.0 3.3 9.9

100 4.4 2.1 6.5

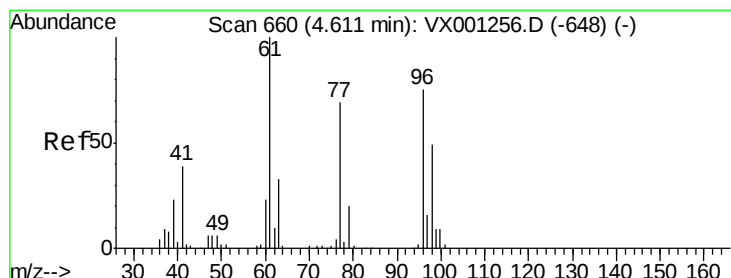
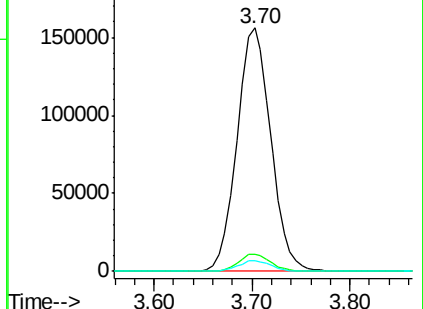
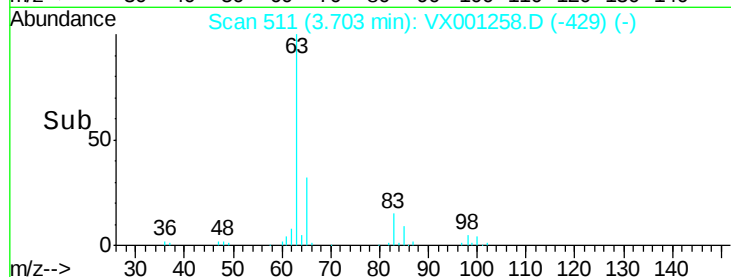


Abundance Ion 63.00 (62.70 to 63.70): VX001258.D (-512) (-)

Ion 98.00 (97.70 to 98.70): VX001258.D (-512) (-)

Ion 100.00 (99.70 to 100.70): VX001258.D (-512) (-)

Time-->



#22

cis-1,2-Dichloroethene

Concen: 92.113 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

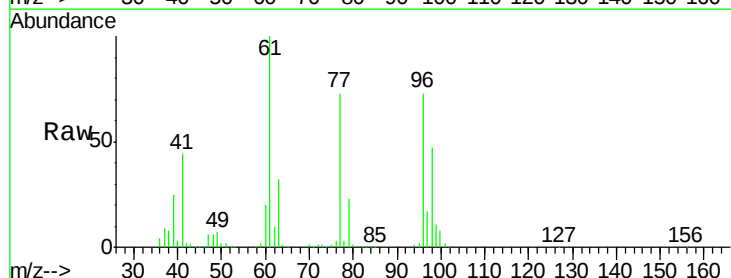
Tgt Ion: 96 Resp: 248542

Ion Ratio Lower Upper

96 100

61 144.2 113.5 170.3

98 64.9 51.8 77.8

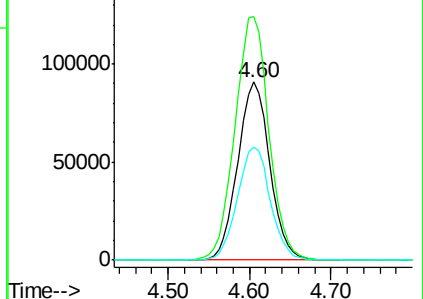
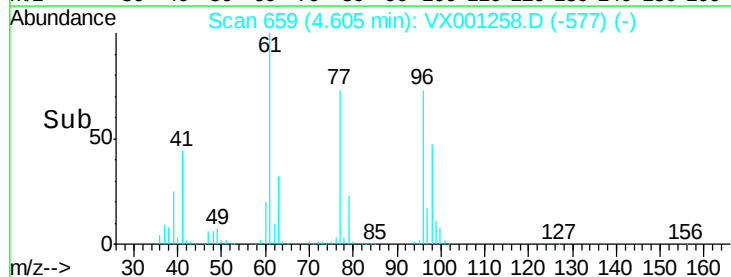


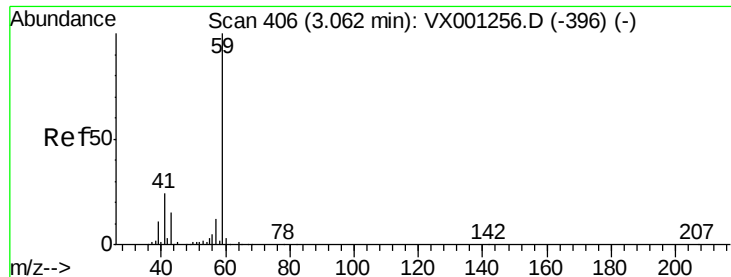
Abundance Ion 96.00 (95.70 to 96.70): VX001258.D (-660) (-)

Ion 61.00 (60.70 to 61.70): VX001258.D (-660) (-)

Ion 98.00 (97.70 to 98.70): VX001258.D (-660) (-)

Time-->





#23

tert-Butyl Alcohol

Concen: 195.653 ug/l

RT: 3.07 min Scan# 408

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

Instrument :

MSVOA\_X

ClientSampleId :

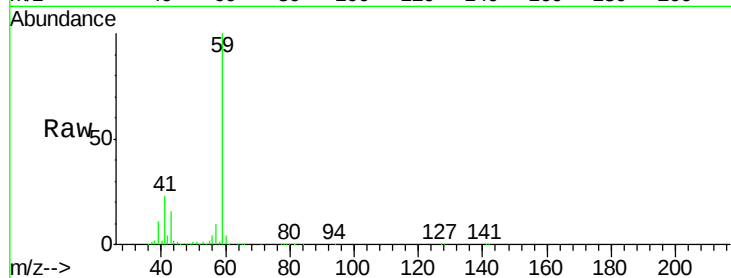
VSTDIC100

Tot Ion: 59 Resp: 231149

Ion Ratio Lower Upper

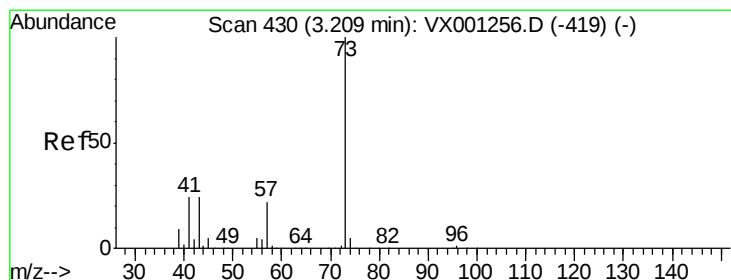
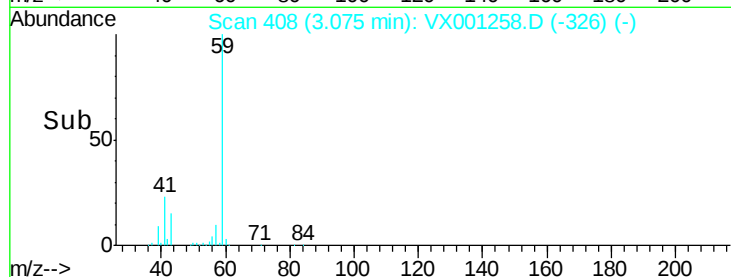
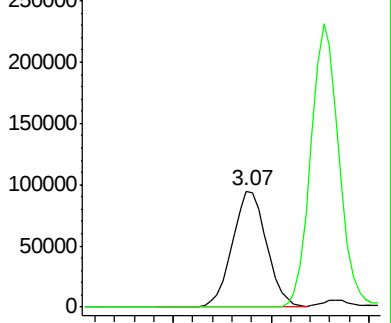
59 100

52 0.1 0.1 0.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#24

Methyl tert-Butyl Ether

Concen: 78.442 ug/l

RT: 3.21 min Scan# 430

Delta R.T. 0.00 min

Lab File: VX001258.D

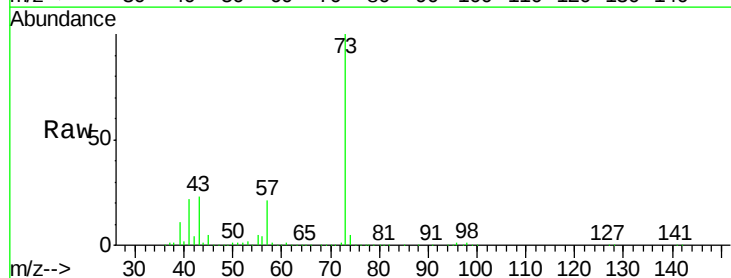
Acq: 30 Apr 2018 11:52

Tgt Ion: 73 Resp: 721460

Ion Ratio Lower Upper

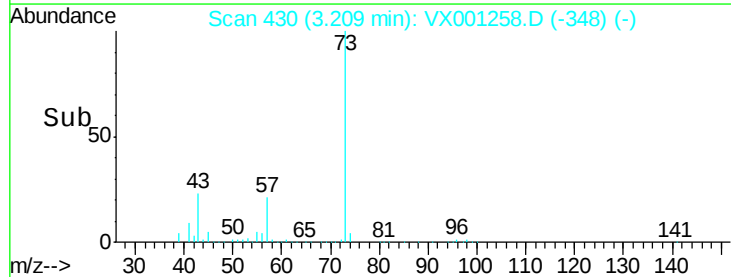
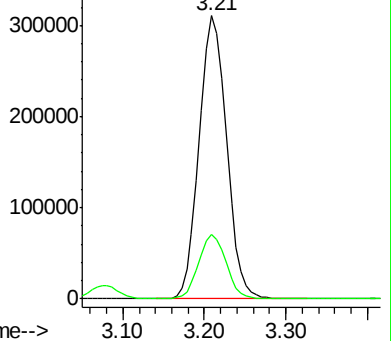
73 100

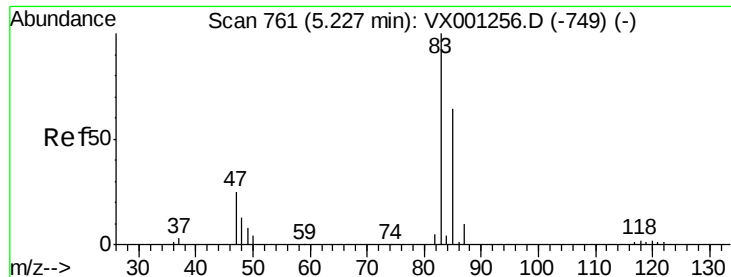
43 22.6 16.5 24.7



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 43.00 (42.70 to 43.70): VX0





#25

Chloroform

Concen: 89.961 ug/l

RT: 5.23 min Scan# 761

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

Instrument :

MSVOA\_X

ClientSampleId :

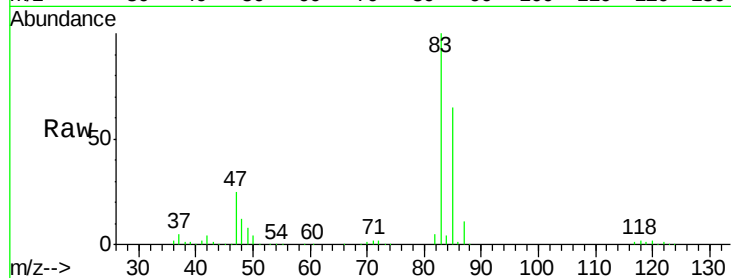
VSTDIC100

Tot Ion: 83 Resp: 422469

Ion Ratio Lower Upper

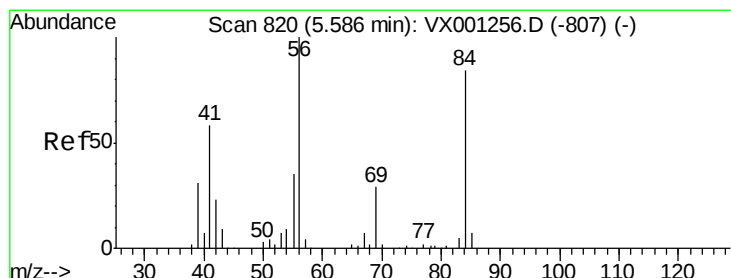
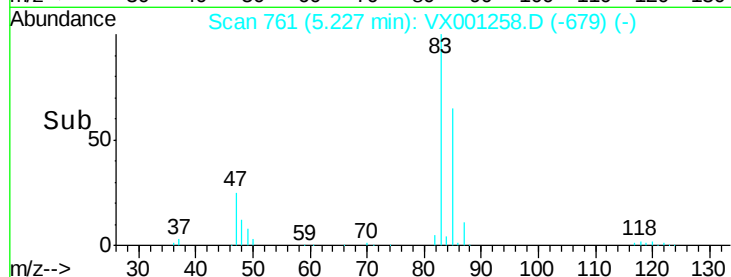
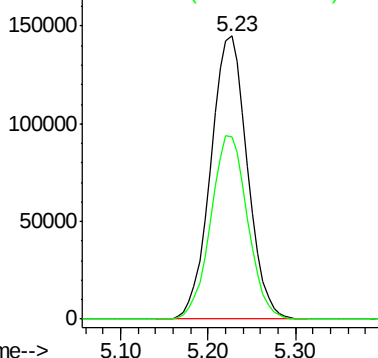
83 100

85 64.6 52.5 78.7



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0



#26

Cyclohexane

Concen: 96.147 ug/l

RT: 5.58 min Scan# 819

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

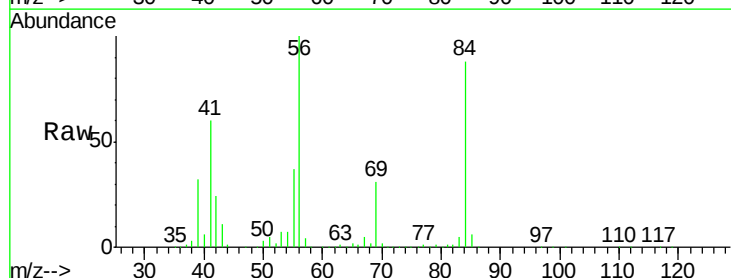
Tgt Ion: 56 Resp: 357058

Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

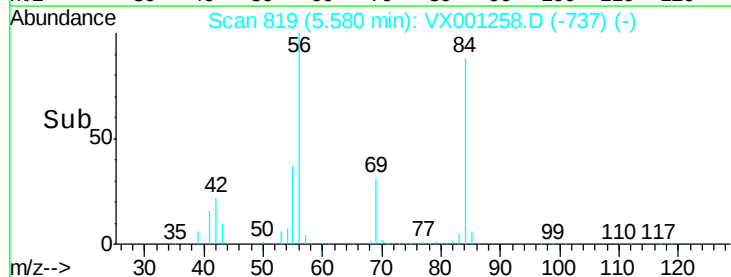
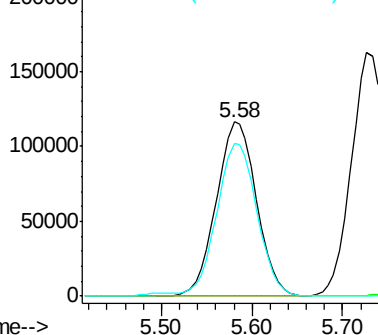
84 88.2 74.8 112.2

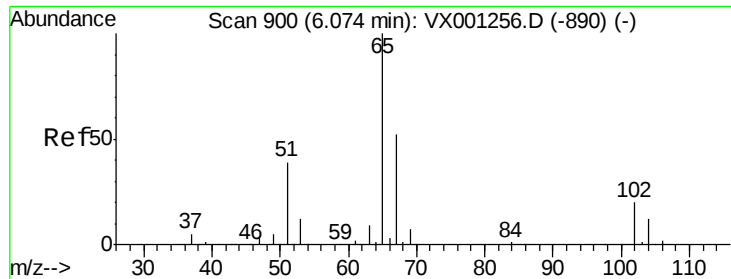


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 89.00 (88.70 to 89.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

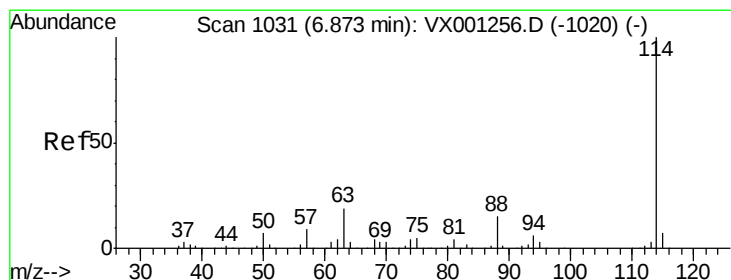
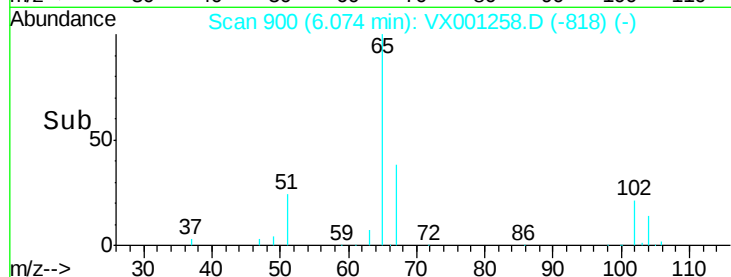
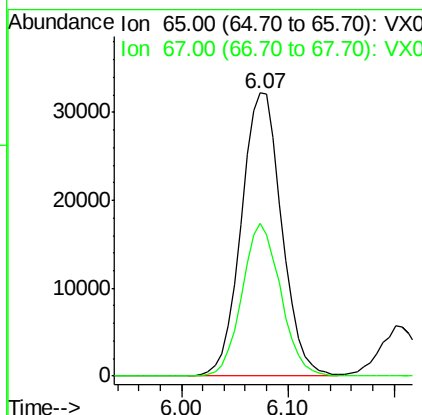
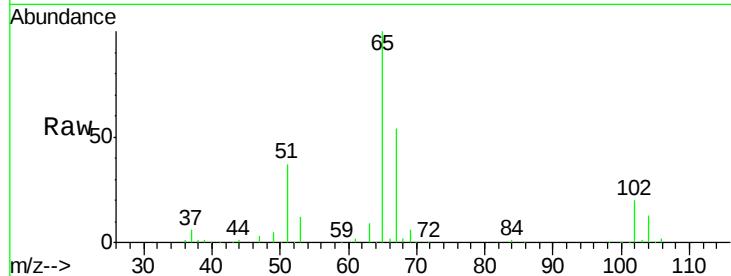




#27  
 1,2-Dichloroethane-d4  
 Concen: 27.788 ug/l  
 RT: 6.07 min Scan# 900  
 Delta R.T. 0.00 min  
 Lab File: VX001258.D  
 Acq: 30 Apr 2018 11:52

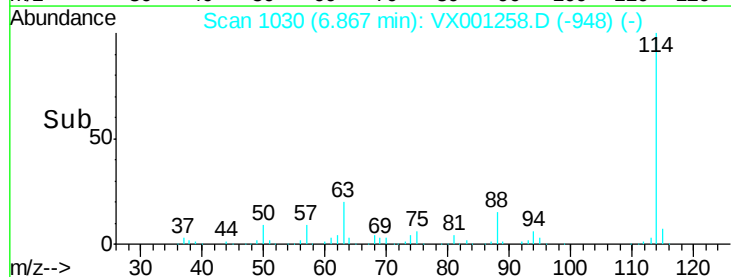
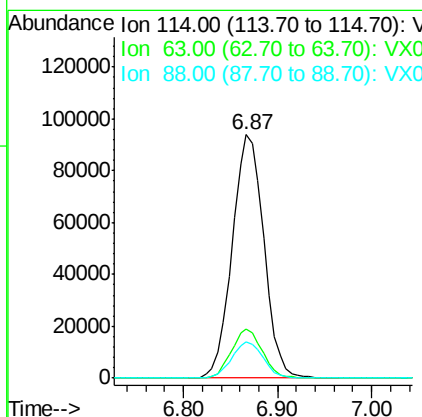
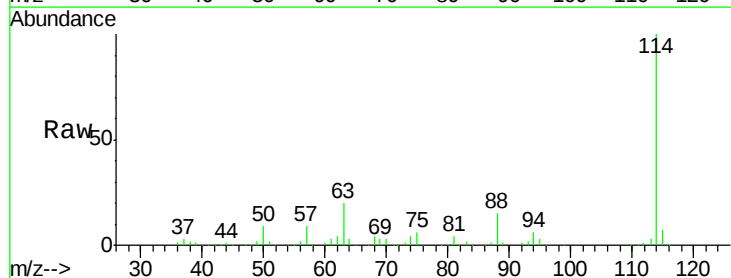
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC100

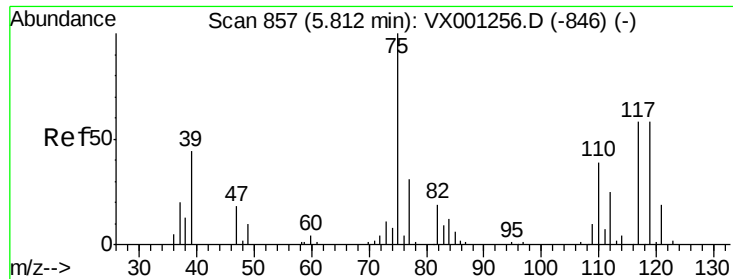
Tot Ion: 65 Resp: 85911  
 Ion Ratio Lower Upper  
 65 100  
 67 51.6 41.4 62.2



#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. 0.00 min  
 Lab File: VX001258.D  
 Acq: 30 Apr 2018 11:52

Tgt Ion: 114 Resp: 219594  
 Ion Ratio Lower Upper  
 114 100  
 63 19.8 15.0 22.4  
 88 14.9 11.8 17.8

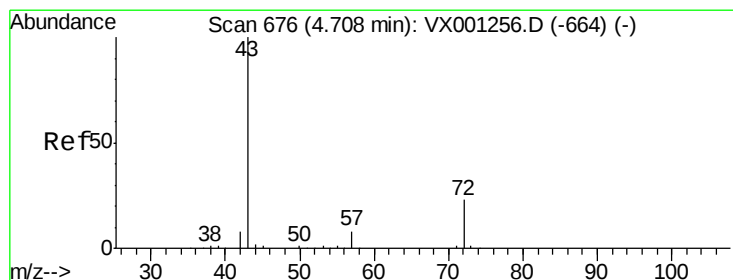
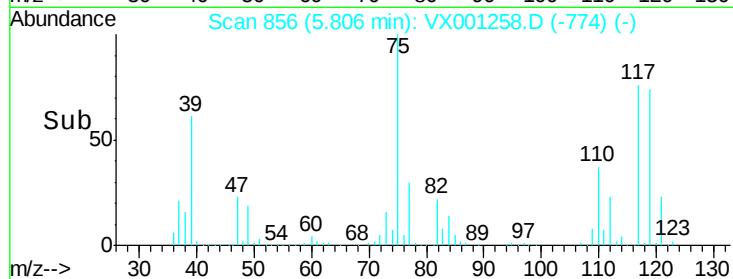
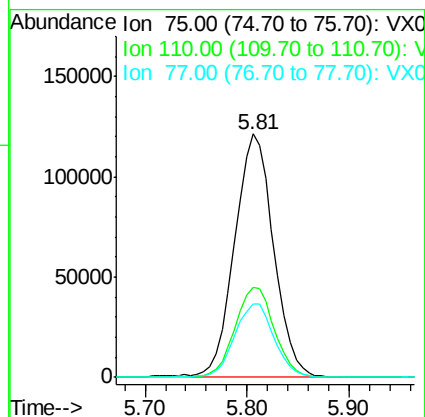
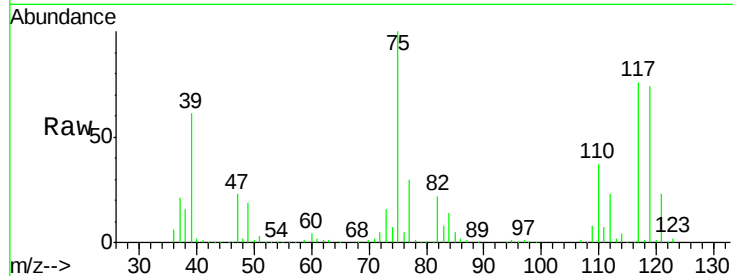




#29  
 1,1-Dichloropropene  
 Concen: 100.255 ug/l  
 RT: 5.81 min Scan# 856  
 Delta R.T. 0.00 min  
 Lab File: VX001258.D  
 Acq: 30 Apr 2018 11:52

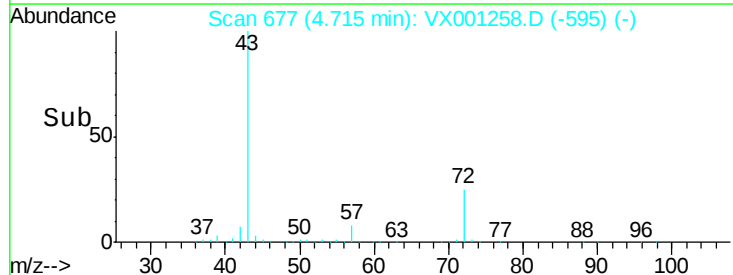
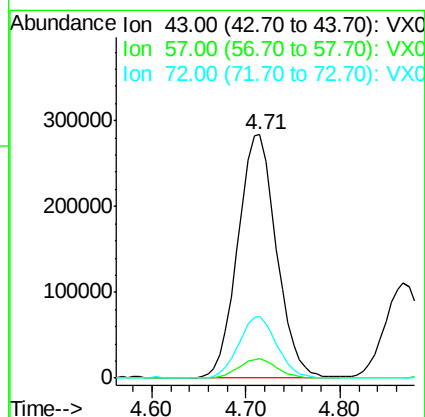
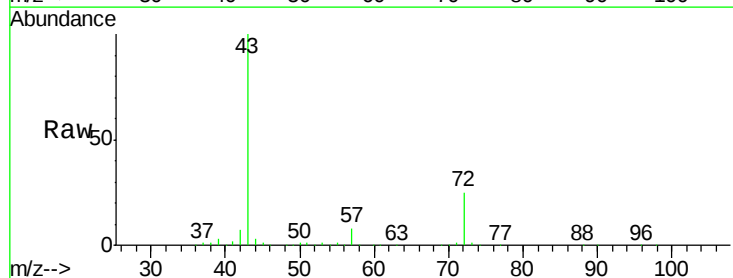
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC100

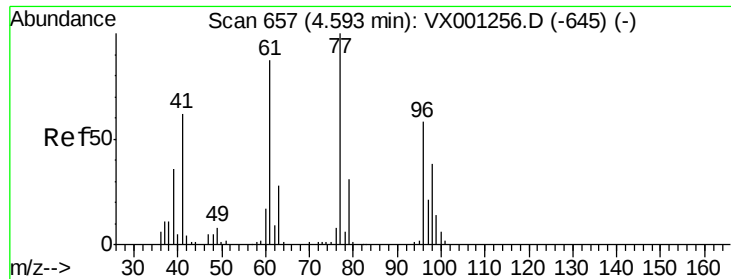
Tot Ion: 75 Resp: 320609  
 Ion Ratio Lower Upper  
 75 100  
 110 37.4 0.0 75.6  
 77 30.9 0.0 62.6



#30  
 2-Butanone  
 Concen: 330.568 ug/l  
 RT: 4.71 min Scan# 677  
 Delta R.T. 0.00 min  
 Lab File: VX001258.D  
 Acq: 30 Apr 2018 11:52

Tgt Ion: 43 Resp: 813720  
 Ion Ratio Lower Upper  
 43 100  
 57 7.9 6.6 10.0  
 72 25.0 21.8 32.6

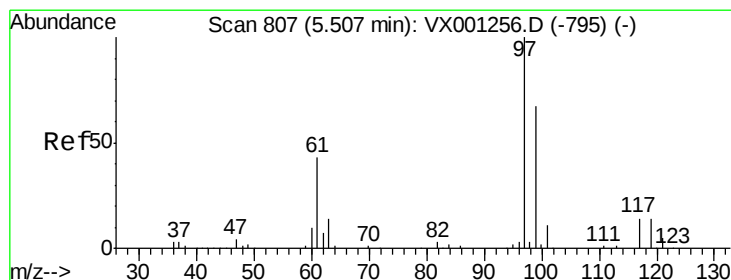
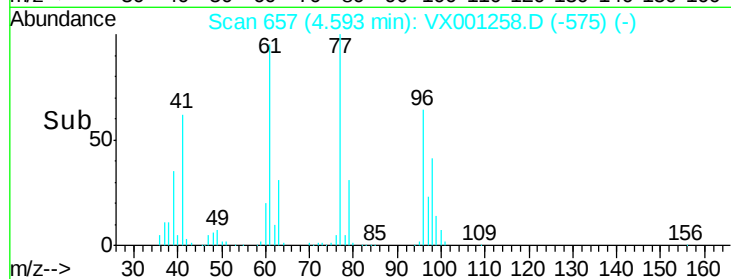
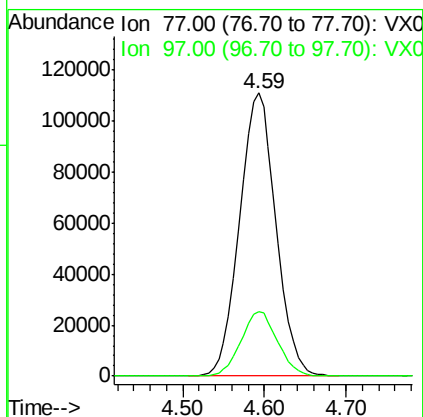
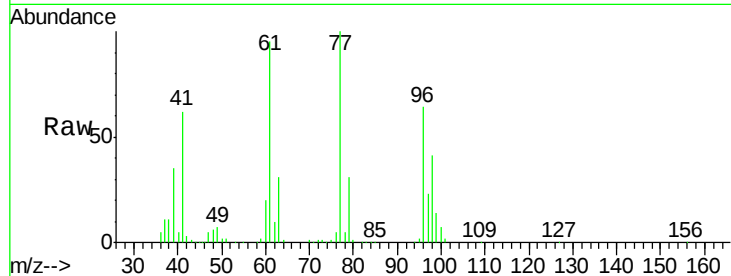




#31  
 2,2-Dichloropropane  
 Concen: 99.819 ug/l  
 RT: 4.59 min Scan# 657  
 Delta R.T. 0.00 min  
 Lab File: VX001258.D  
 Acq: 30 Apr 2018 11:52

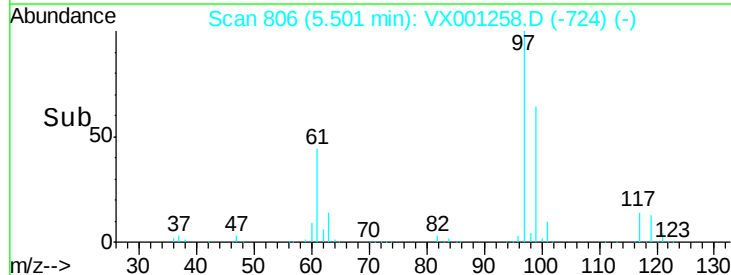
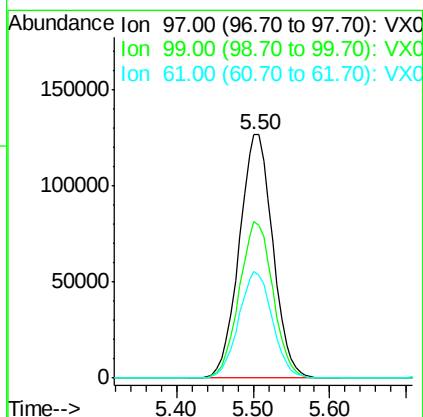
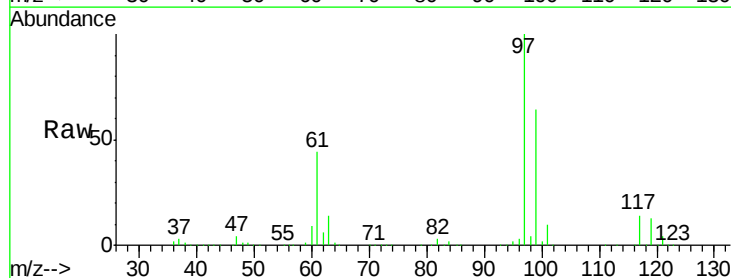
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC100

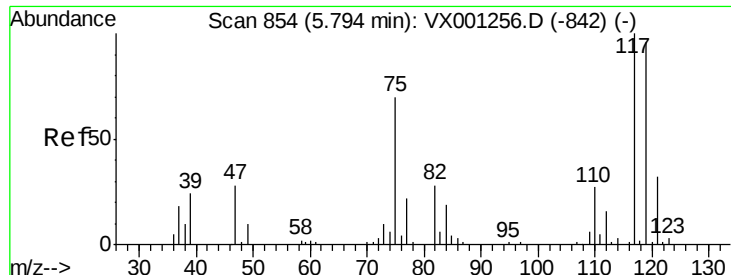
Tot Ion: 77 Resp: 343353  
 Ion Ratio Lower Upper  
 77 100  
 97 22.9 18.6 27.8



#32  
 1,1,1-Trichloroethane  
 Concen: 100.090 ug/l  
 RT: 5.50 min Scan# 806  
 Delta R.T. 0.00 min  
 Lab File: VX001258.D  
 Acq: 30 Apr 2018 11:52

Tgt Ion: 97 Resp: 387294  
 Ion Ratio Lower Upper  
 97 100  
 99 64.3 52.3 78.5  
 61 43.9 34.3 51.5

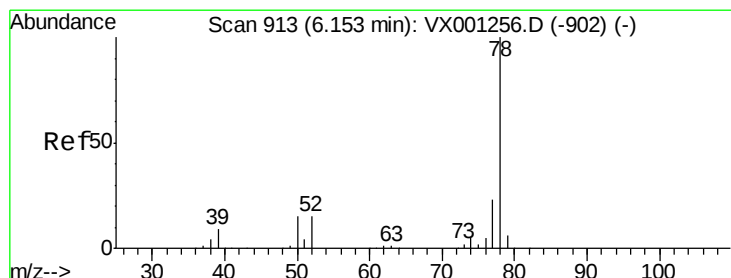
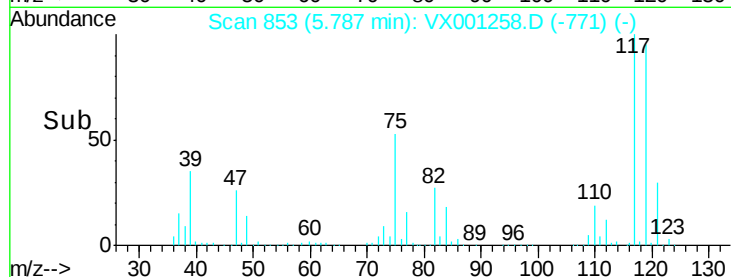
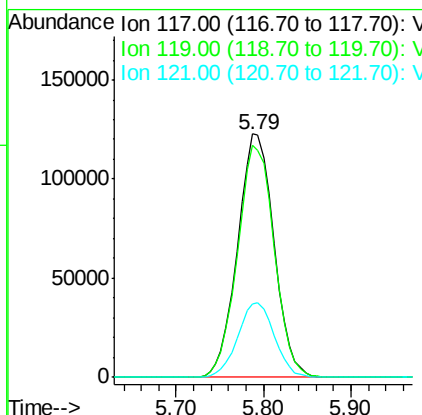
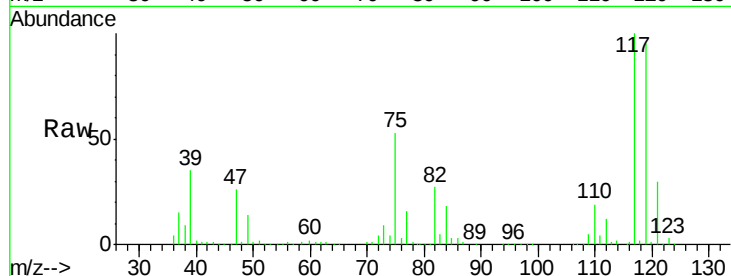




#33  
Carbon Tetrachloride  
Concen: 103.423 ug/l  
RT: 5.79 min Scan# 853  
Delta R.T. 0.00 min  
Lab File: VX001258.D  
Acq: 30 Apr 2018 11:52

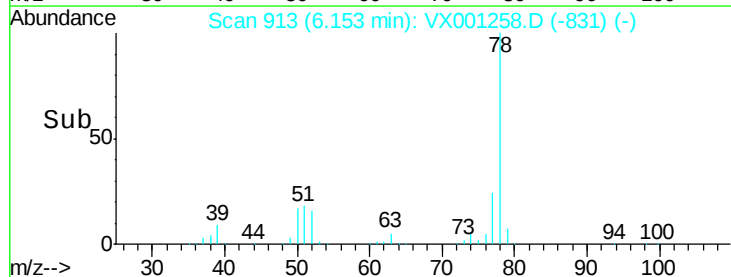
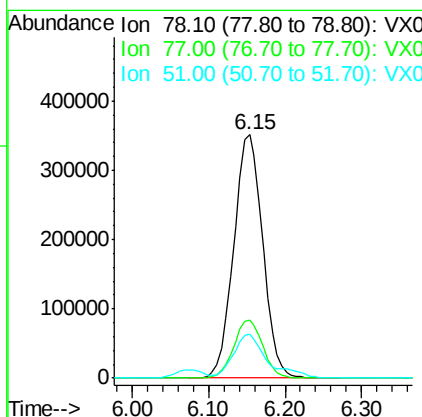
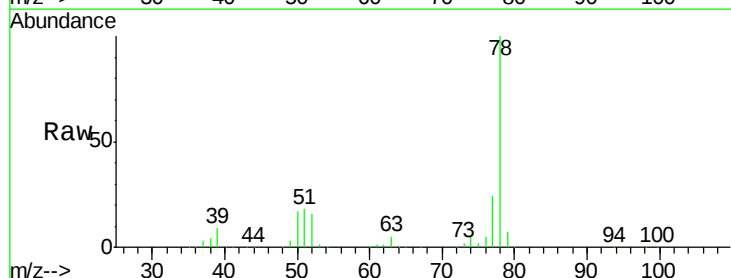
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

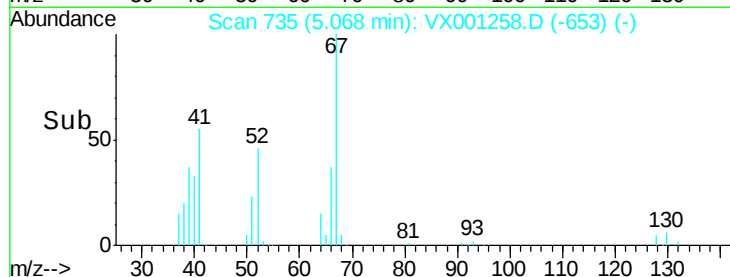
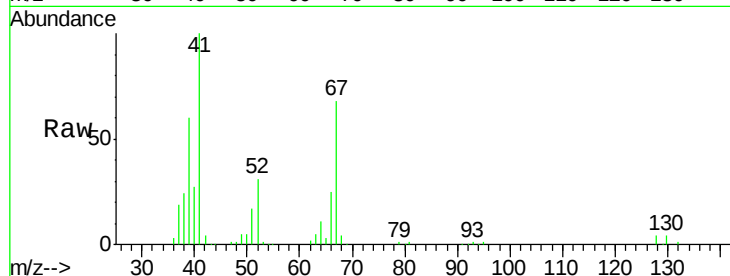
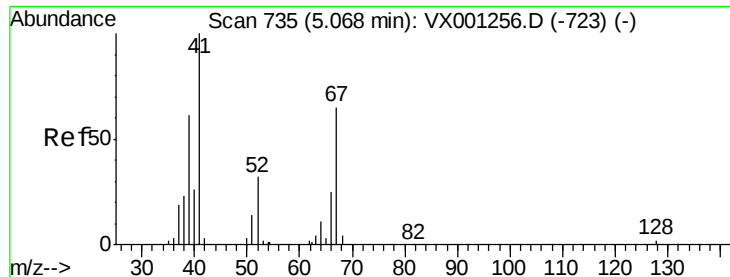
Tot Ion:117 Resp: 355359  
Ion Ratio Lower Upper  
117 100  
119 95.4 73.5 110.3  
121 30.3 24.6 37.0



#34  
Benzene  
Concen: 100.107 ug/l  
RT: 6.15 min Scan# 913  
Delta R.T. 0.00 min  
Lab File: VX001258.D  
Acq: 30 Apr 2018 11:52

Tgt Ion: 78 Resp: 921201  
Ion Ratio Lower Upper  
78 100  
77 24.1 21.7 32.5  
51 18.0 14.9 22.3

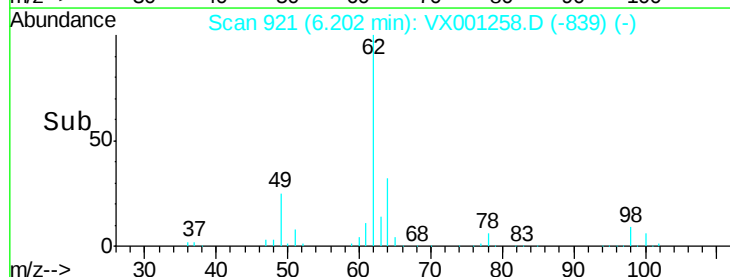
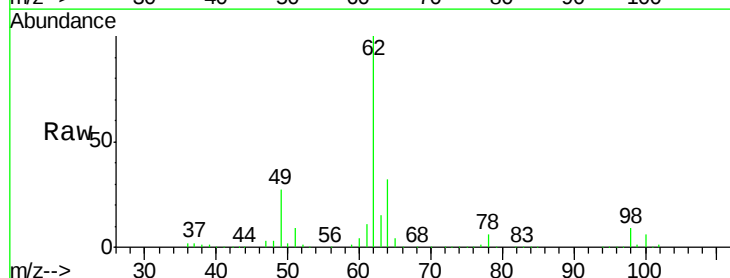
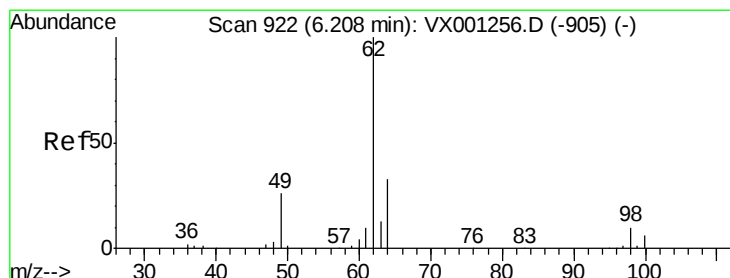
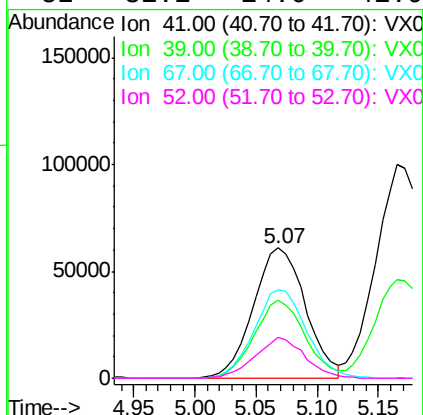




#35  
Methacrylonitrile  
Concen: 79.747 ug/l  
RT: 5.07 min Scan# 735  
Delta R.T. 0.00 min  
Lab File: VX001258.D  
Acq: 30 Apr 2018 11:52

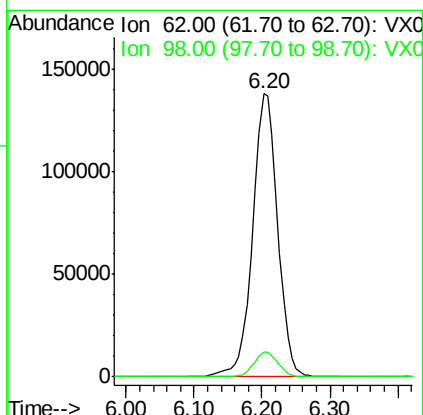
Instrument :  
MSVOA\_X  
ClientSampled :  
VSTDIC100

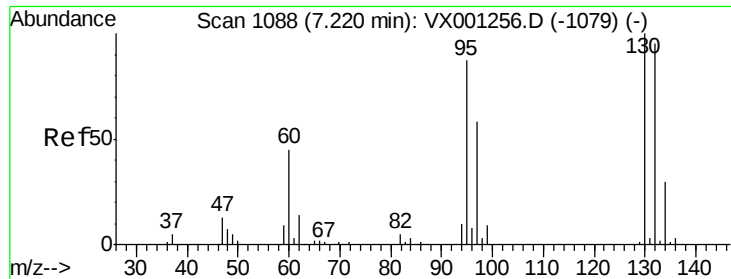
Tot Ion: 41 Resp: 180746  
Ion Ratio Lower Upper  
41 100  
39 60.2 29.8 89.3  
67 67.7 28.7 86.3  
52 31.1 14.0 41.9



#36  
1,2-Dichloroethane  
Concen: 101.735 ug/l  
RT: 6.20 min Scan# 921  
Delta R.T. 0.00 min  
Lab File: VX001258.D  
Acq: 30 Apr 2018 11:52

Tgt Ion: 62 Resp: 355005  
Ion Ratio Lower Upper  
62 100  
98 8.5 6.9 10.3

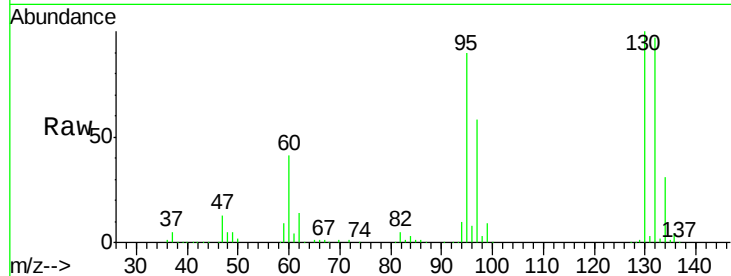




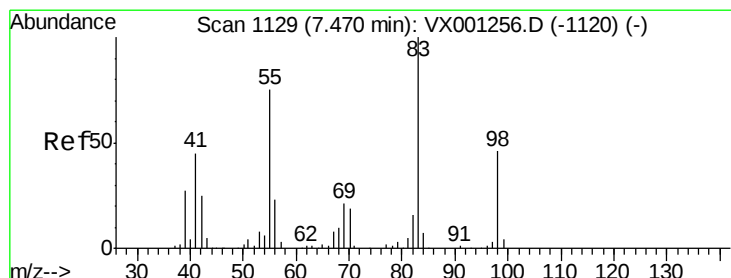
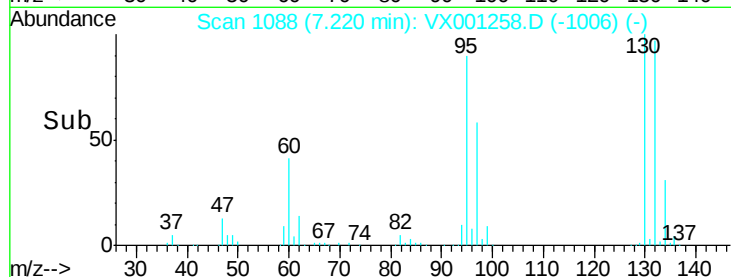
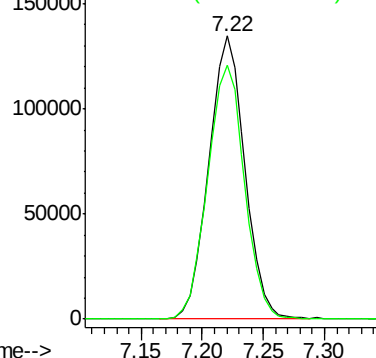
#37  
 Trichloroethene  
 Concen: 101.309 ug/l  
 RT: 7.22 min Scan# 1088  
 Delta R.T. 0.00 min  
 Lab File: VX001258.D  
 Acq: 30 Apr 2018 11:52

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC100

Tot Ion:130 Resp: 275556  
 Ion Ratio Lower Upper  
 130 100  
 95 89.5 74.6 112.0

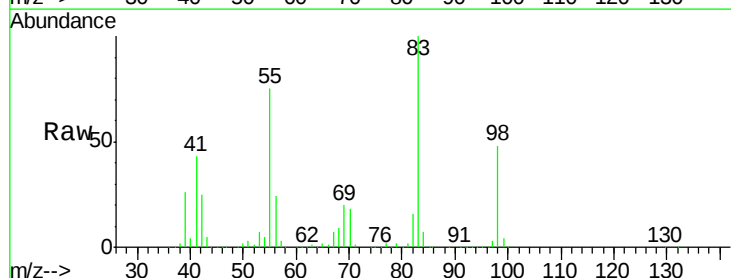


Abundance Ion 129.90 (129.60 to 130.60): V  
 Ion 94.90 (94.60 to 95.60): VX0

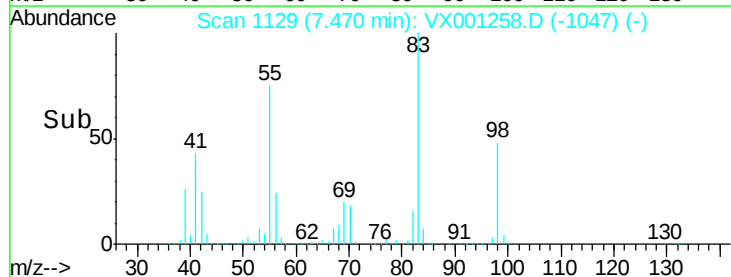
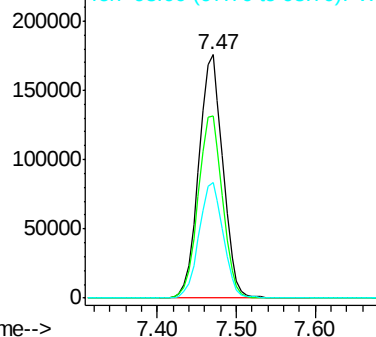


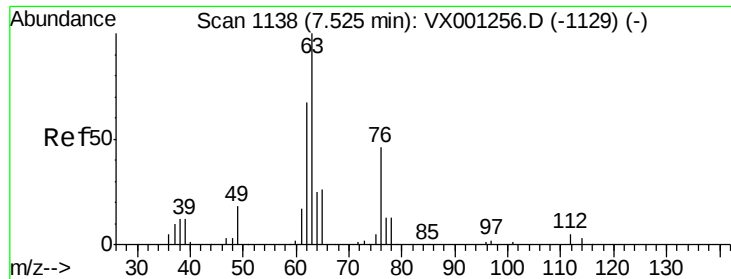
#38  
 Methylcyclohexane  
 Concen: 97.581 ug/l  
 RT: 7.47 min Scan# 1129  
 Delta R.T. 0.00 min  
 Lab File: VX001258.D  
 Acq: 30 Apr 2018 11:52

Tgt Ion: 83 Resp: 374086  
 Ion Ratio Lower Upper  
 83 100  
 55 75.9 35.9 107.7  
 98 47.8 24.6 74.0



Abundance Ion 83.00 (82.70 to 83.70): VX0  
 Ion 55.00 (54.70 to 55.70): VX0  
 Ion 98.00 (97.70 to 98.70): VX0

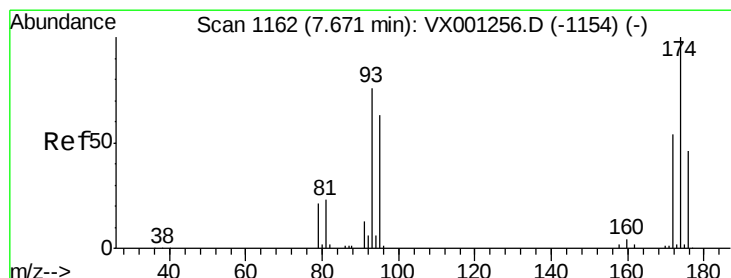
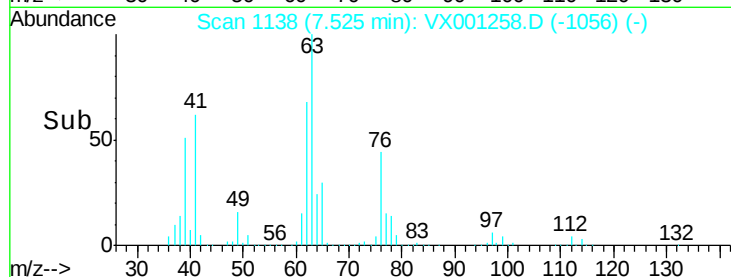
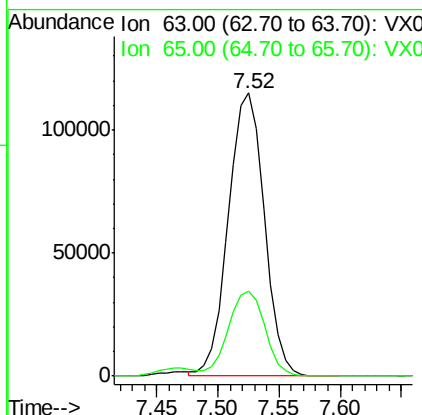
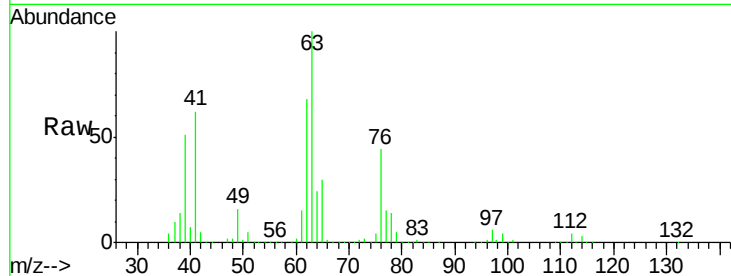




#39  
 1,2-Dichloropropane  
 Concen: 102.365 ug/l  
 RT: 7.52 min Scan# 1138  
 Delta R.T. 0.00 min  
 Lab File: VX001258.D  
 Acq: 30 Apr 2018 11:52

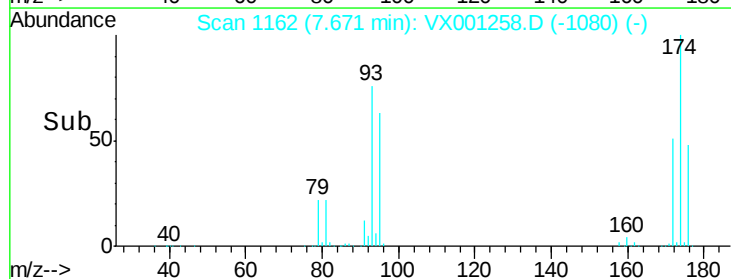
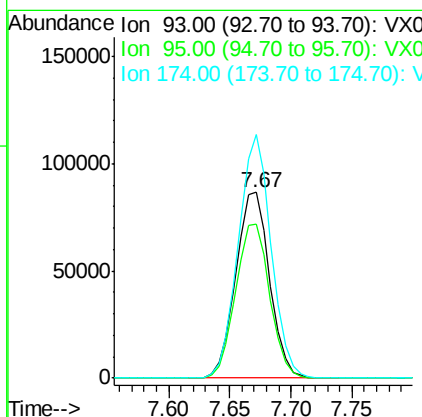
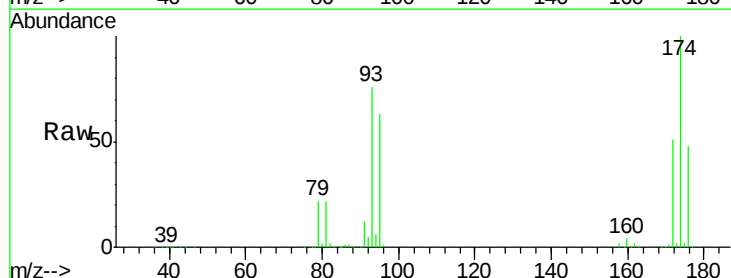
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC100

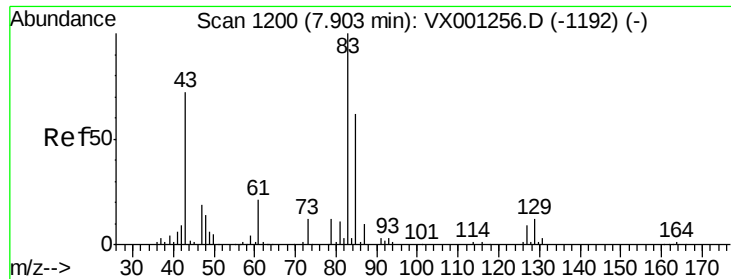
Tot Ion: 63 Resp: 235166  
 Ion Ratio Lower Upper  
 63 100  
 65 29.9 25.0 37.6



#40  
 Dibromomethane  
 Concen: 94.009 ug/l  
 RT: 7.67 min Scan# 1162  
 Delta R.T. 0.00 min  
 Lab File: VX001258.D  
 Acq: 30 Apr 2018 11:52

Tgt Ion: 93 Resp: 166400  
 Ion Ratio Lower Upper  
 93 100  
 95 83.7 0.0 170.6  
 174 127.2 0.0 210.4





#41

Bromodichloromethane

Concen: 97.133 ug/l

RT: 7.90 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

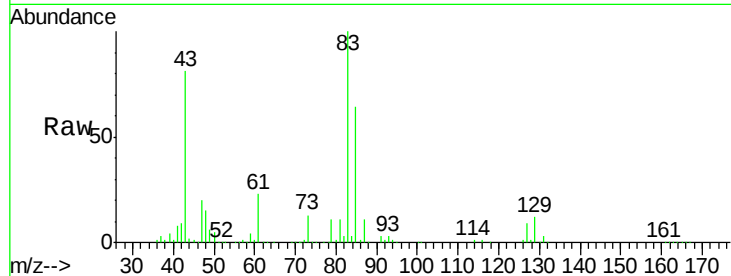
Tot Ion: 83 Resp: 326796

Ion Ratio Lower Upper

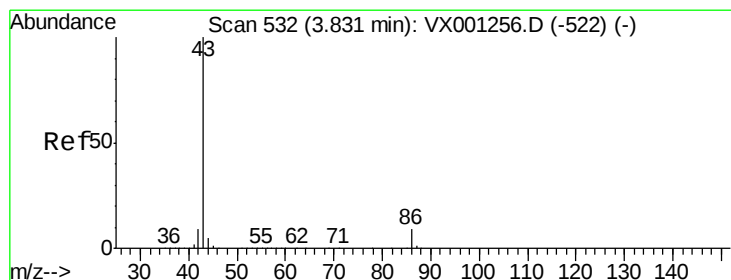
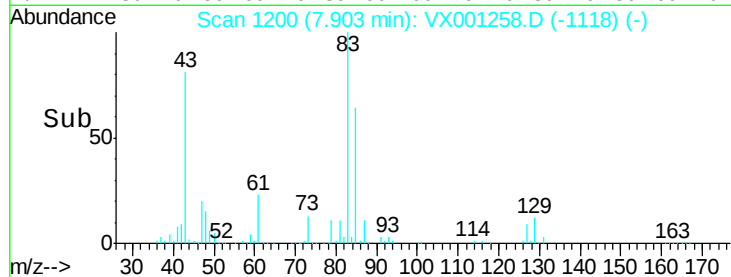
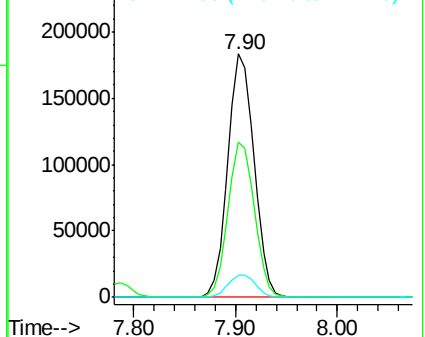
83 100

85 64.0 50.0 75.0

127 9.0 6.6 10.0



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: 513.492 ug/l

RT: 3.83 min Scan# 532

Delta R.T. 0.00 min

Lab File: VX001258.D

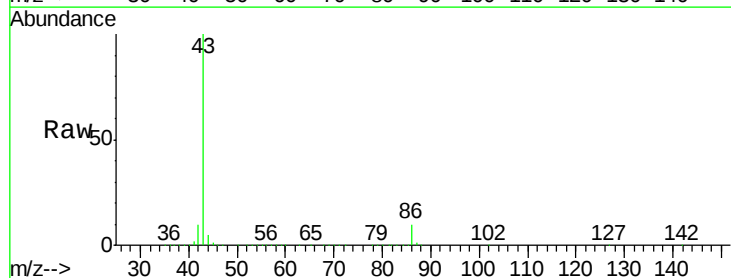
Acq: 30 Apr 2018 11:52

Tgt Ion: 43 Resp: 3221747

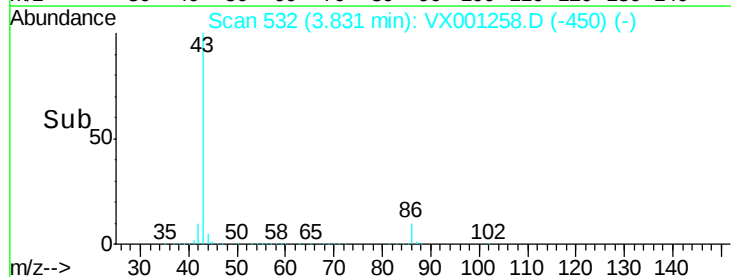
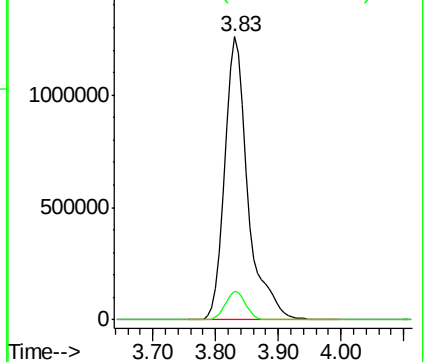
Ion Ratio Lower Upper

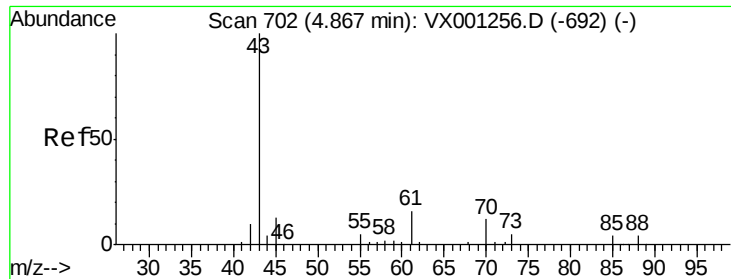
43 100

86 8.9 7.8 11.6



Abundance Ion 43.00 (42.70 to 43.70): VX0  
Ion 86.00 (85.70 to 86.70): VX0





#43

Ethyl Acetate

Concen: 73.572 ug/l

RT: 4.87 min Scan# 702

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

Instrument :

MSVOA\_X

ClientSampleId :

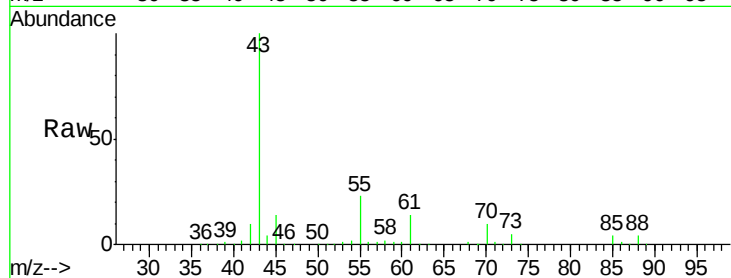
VSTDIC100

Tot Ion: 43 Resp: 318106

Ion Ratio Lower Upper

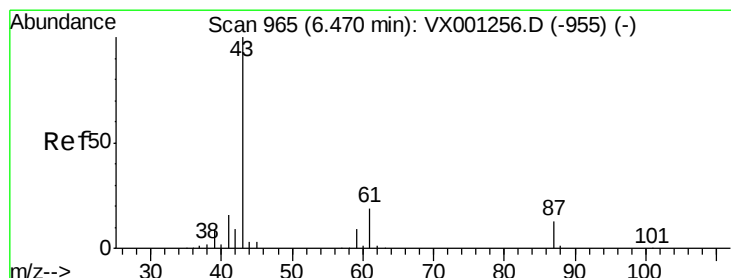
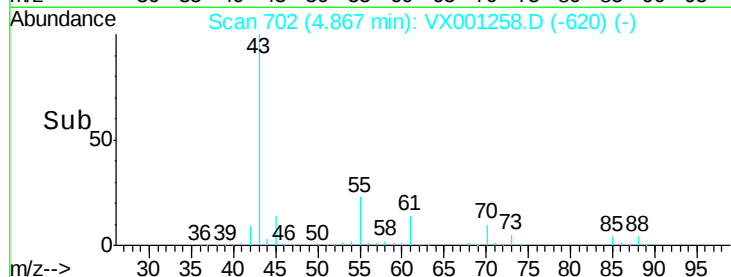
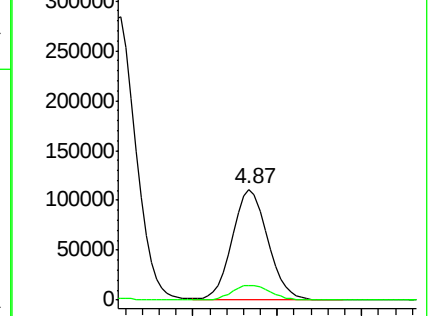
43 100

45 14.7 11.4 17.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#44

Isopropyl Acetate

Concen: 86.771 ug/l

RT: 6.47 min Scan# 965

Delta R.T. 0.00 min

Lab File: VX001258.D

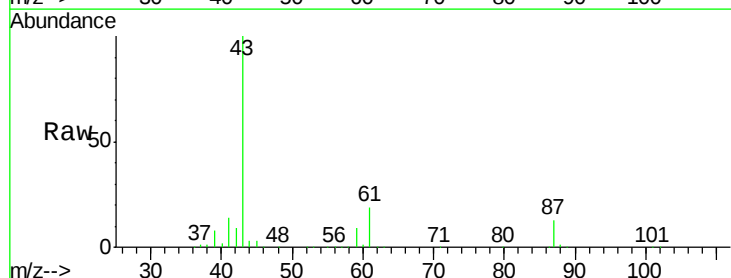
Acq: 30 Apr 2018 11:52

Tgt Ion: 43 Resp: 550469

Ion Ratio Lower Upper

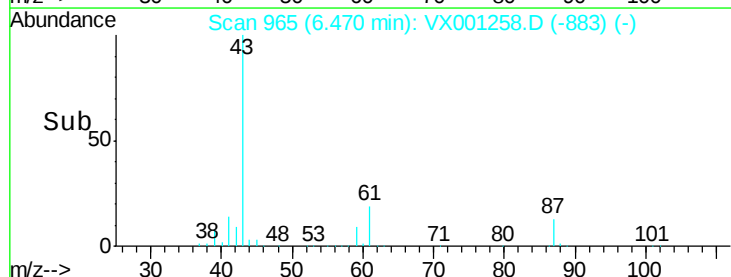
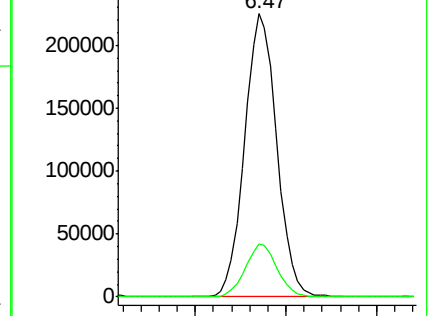
43 100

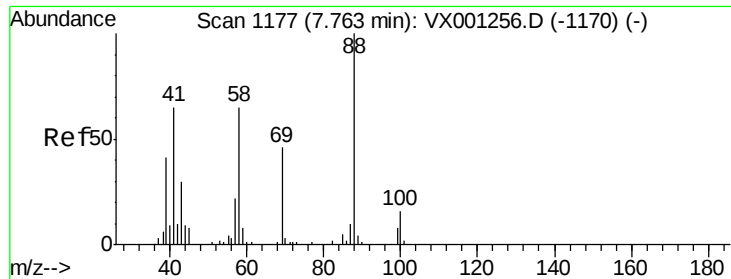
61 18.6 15.7 23.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

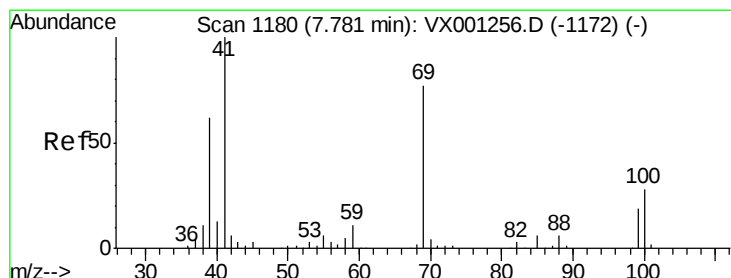
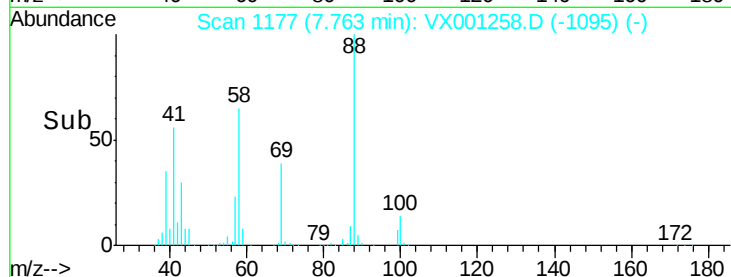
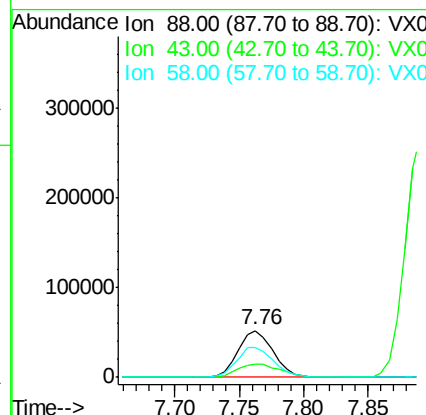
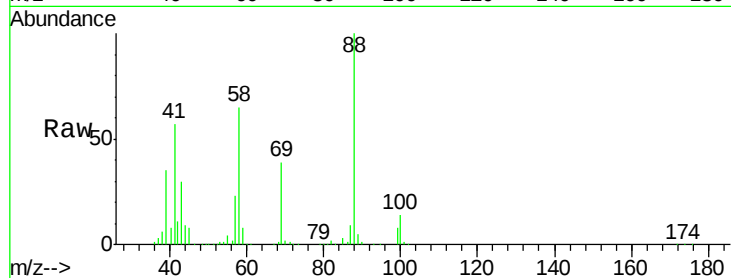




#45  
 1,4-Dioxane  
 Concen: 1220.565 ug/l  
 RT: 7.76 min Scan# 1177  
 Delta R.T. 0.00 min  
 Lab File: VX001258.D  
 Acq: 30 Apr 2018 11:52

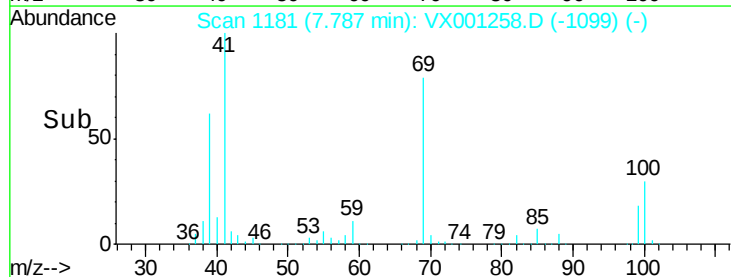
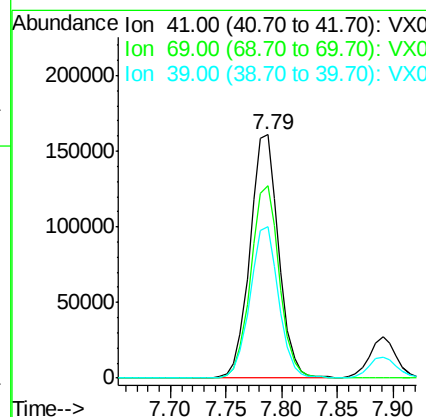
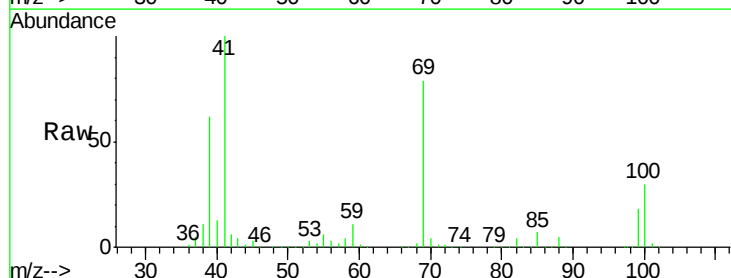
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC100

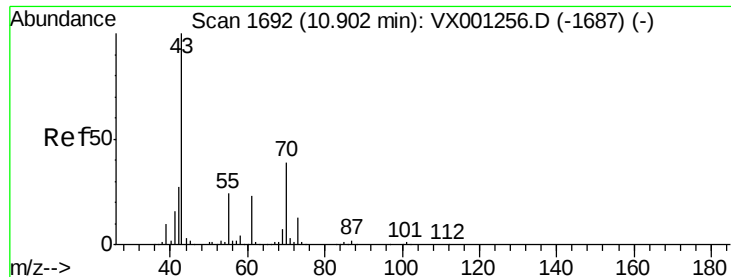
Tot Ion: 88 Resp: 97384  
 Ion Ratio Lower Upper  
 88 100  
 43 35.2 26.8 40.2  
 58 68.8 52.1 78.1



#46  
 Methyl methacrylate  
 Concen: 93.313 ug/l  
 RT: 7.79 min Scan# 1181  
 Delta R.T. 0.00 min  
 Lab File: VX001258.D  
 Acq: 30 Apr 2018 11:52

Tgt Ion: 41 Resp: 287926  
 Ion Ratio Lower Upper  
 41 100  
 69 79.0 45.5 136.5  
 39 62.2 32.5 97.5

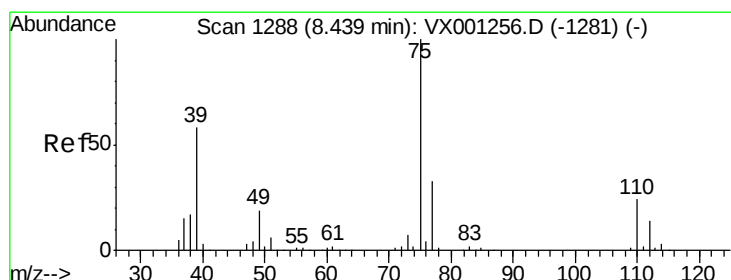
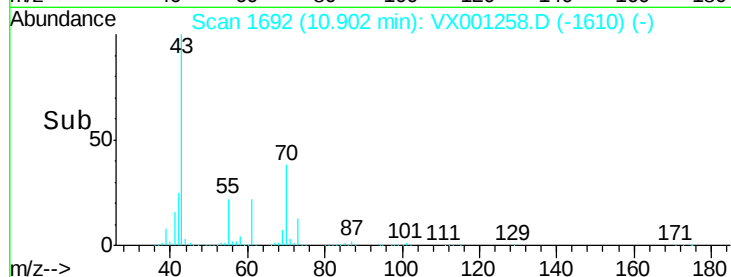
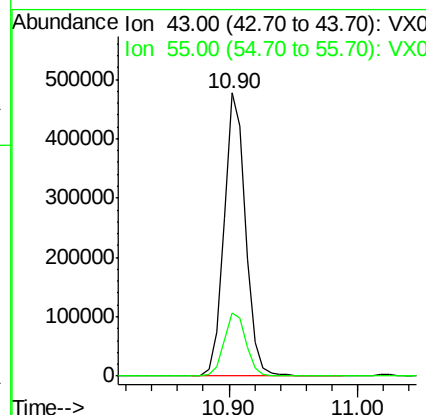
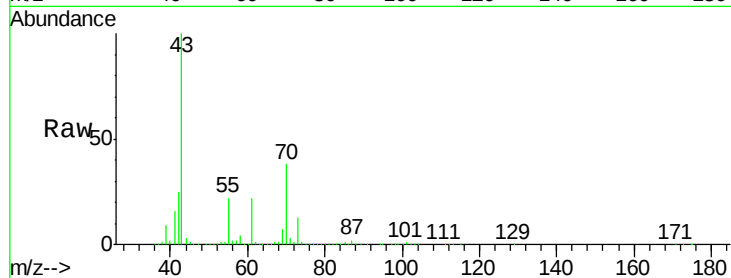




#47  
n-amvl Acetate  
Concen: 100.934 ug/l  
RT: 10.90 min Scan# 1692  
Delta R.T. 0.00 min  
Lab File: VX001258.D  
Acq: 30 Apr 2018 11:52

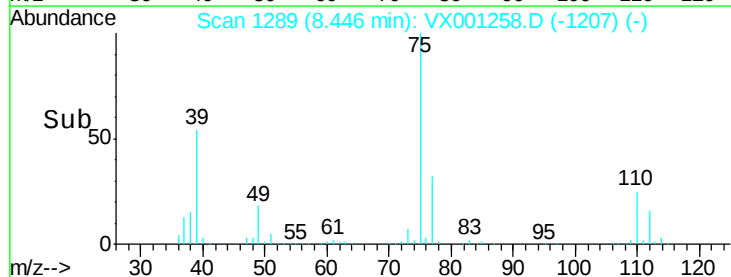
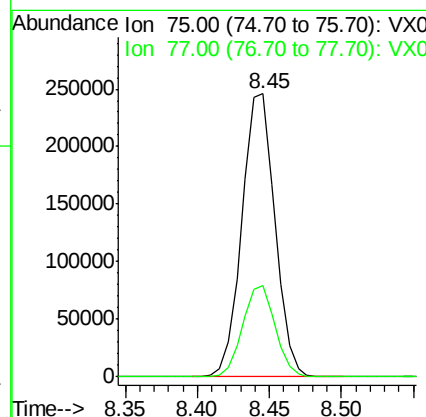
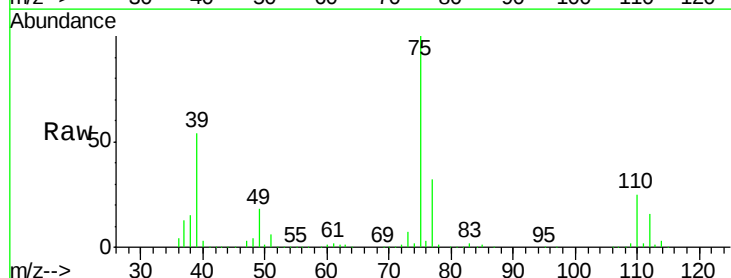
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

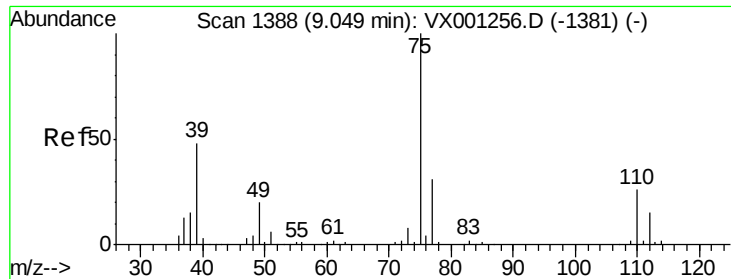
Tot Ion: 43 Resp: 559030  
Ion Ratio Lower Upper  
43 100  
55 23.1 19.4 29.2



#48  
t-1,3-Dichloropropene  
Concen: 99.941 ug/l  
RT: 8.45 min Scan# 1289  
Delta R.T. 0.00 min  
Lab File: VX001258.D  
Acq: 30 Apr 2018 11:52

Tgt Ion: 75 Resp: 391429  
Ion Ratio Lower Upper  
75 100  
77 32.1 24.6 37.0



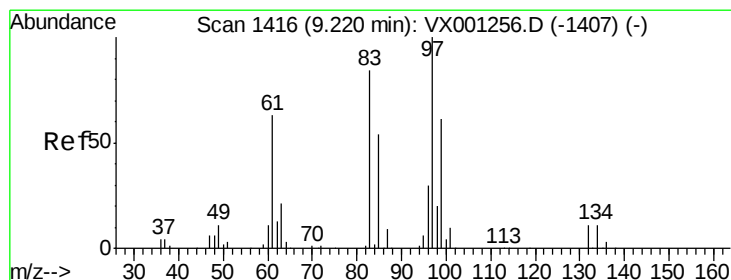
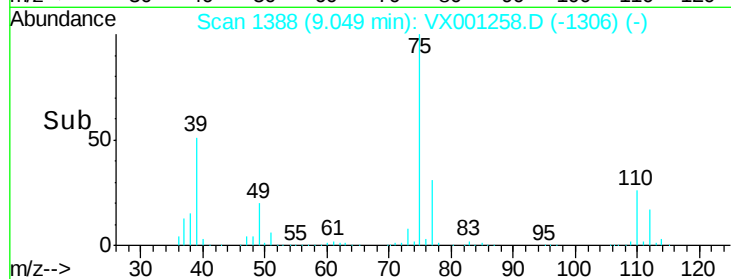
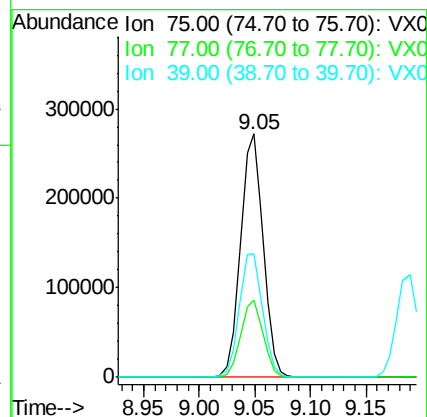
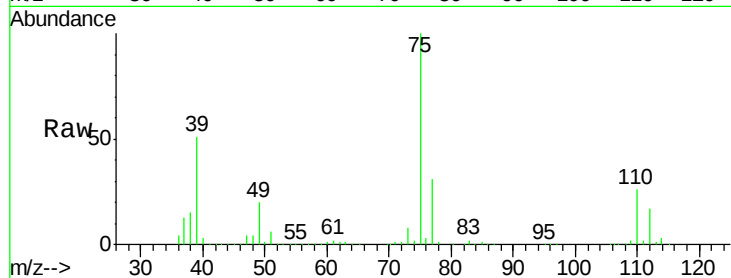


#49

cis-1,3-Dichloropropene  
 Concen: 99.946 ug/l  
 RT: 9.05 min Scan# 1388  
 Delta R.T. 0.00 min  
 Lab File: VX001258.D  
 Acq: 30 Apr 2018 11:52

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC100

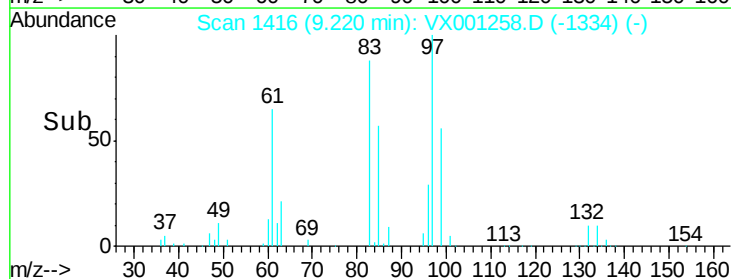
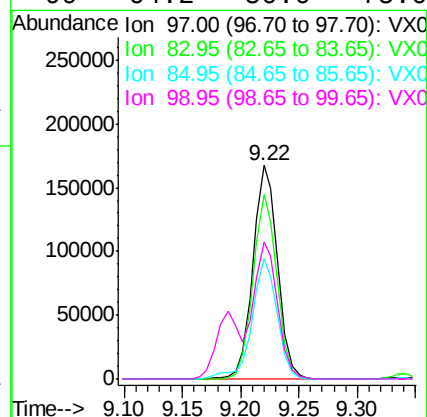
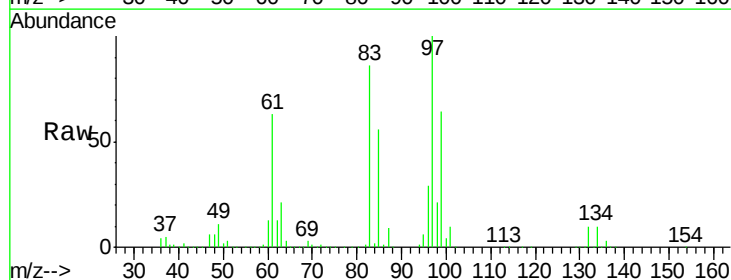
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.5  | 24.5  | 36.7  |
| 39      | 50.7  | 35.6  | 53.4  |

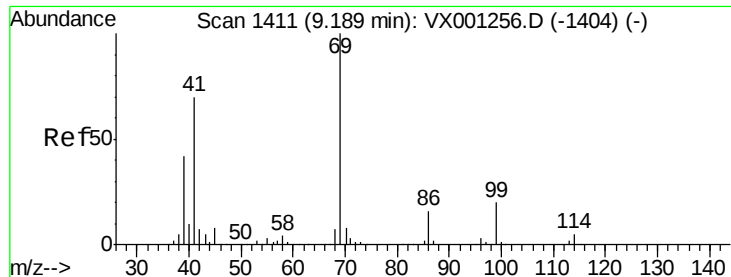


#50

1,1,2-Trichloroethane  
 Concen: 94.561 ug/l  
 RT: 9.22 min Scan# 1416  
 Delta R.T. 0.00 min  
 Lab File: VX001258.D  
 Acq: 30 Apr 2018 11:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 86.2  | 66.9  | 100.3 |
| 85      | 56.1  | 44.4  | 66.6  |
| 99      | 64.2  | 50.0  | 75.0  |





#51

Ethyl methacrylate

Concen: 94.476 ug/l

RT: 9.19 min Scan# 1411

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

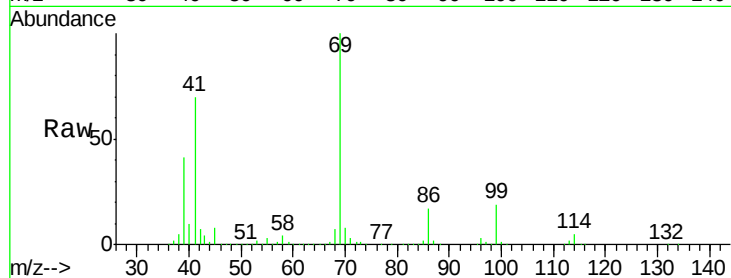
Tot Ion: 69 Resp: 376184

Ion Ratio Lower Upper

69 100

41 69.6 32.1 96.3

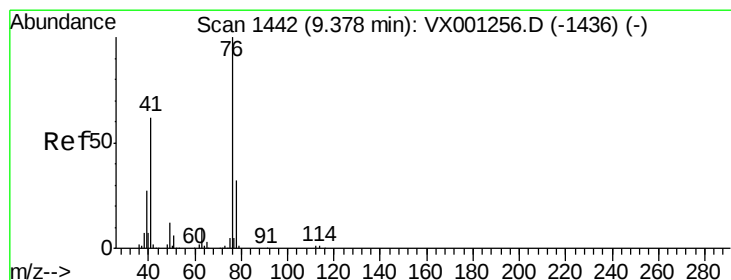
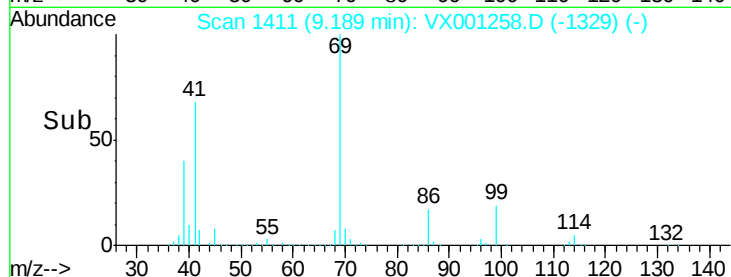
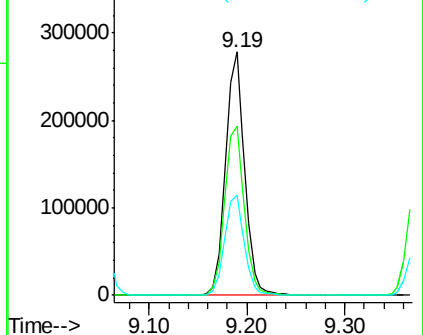
39 41.1 19.6 58.7



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#52

1,3-Dichloropropane

Concen: 95.695 ug/l

RT: 9.38 min Scan# 1442

Delta R.T. 0.00 min

Lab File: VX001258.D

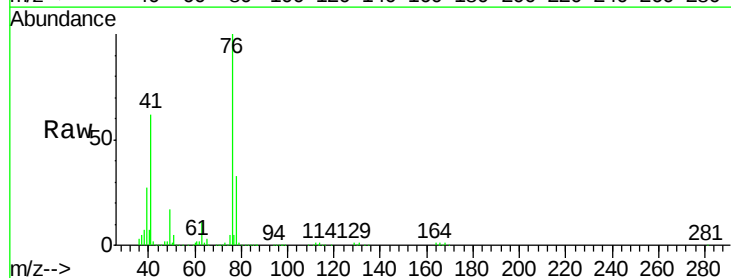
Acq: 30 Apr 2018 11:52

Tgt Ion: 76 Resp: 398910

Ion Ratio Lower Upper

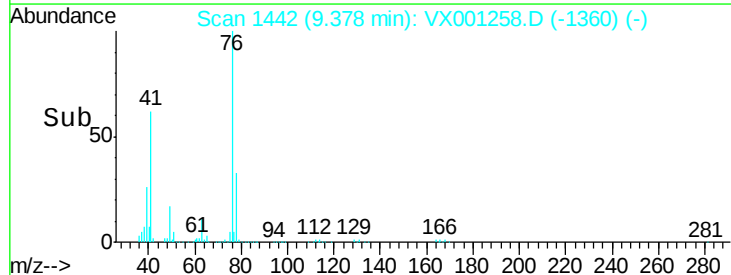
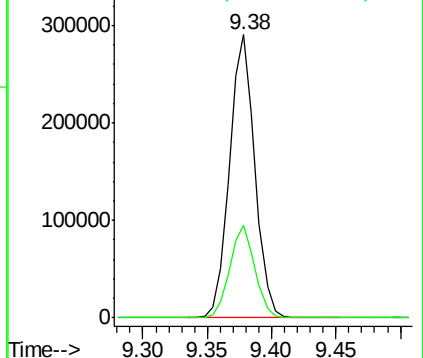
76 100

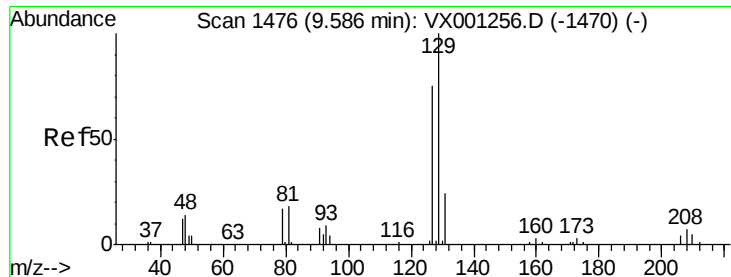
78 32.3 0.0 65.0



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0





#53

Dibromochloromethane

Concen: 101.142 ug/l

RT: 9.59 min Scan# 1477

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

Instrument :

MSVOA\_X

ClientSampleId :

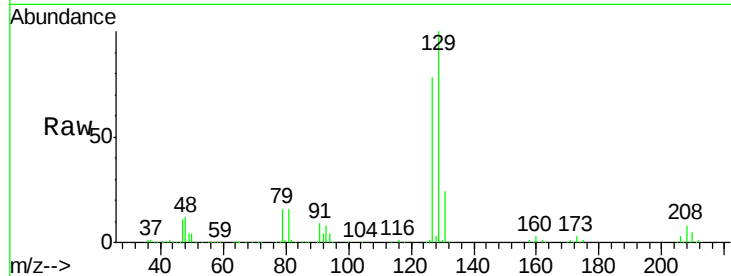
VSTDIC100

Tot Ion:129 Resp: 292463

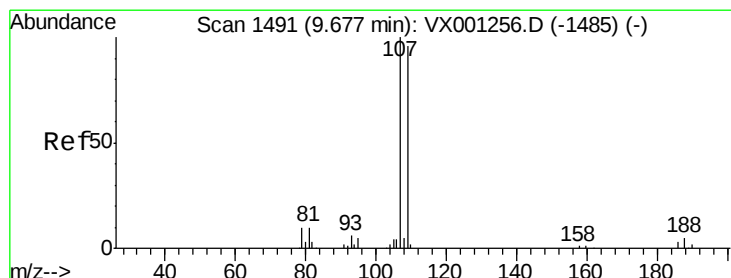
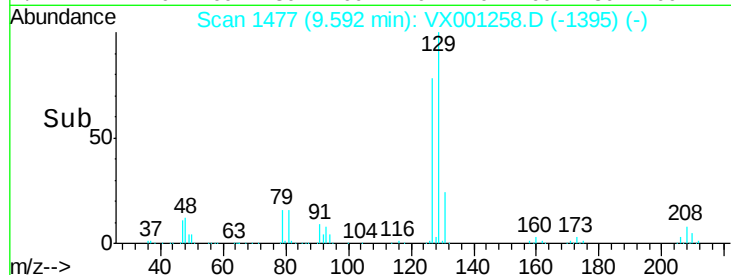
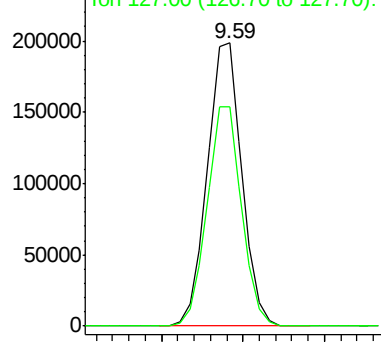
Ion Ratio Lower Upper

129 100

127 77.5 37.5 112.5



Abundance Ion 129.00 (128.70 to 129.70): V



#54

1,2-Dibromoethane

Concen: 92.737 ug/l

RT: 9.68 min Scan# 1491

Delta R.T. 0.00 min

Lab File: VX001258.D

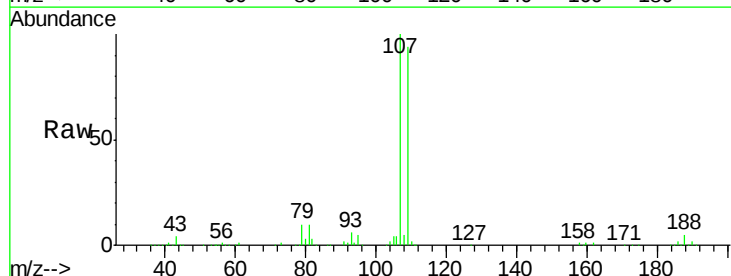
Acq: 30 Apr 2018 11:52

Tgt Ion:107 Resp: 268629

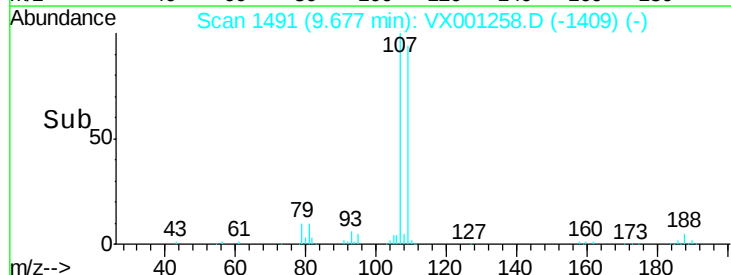
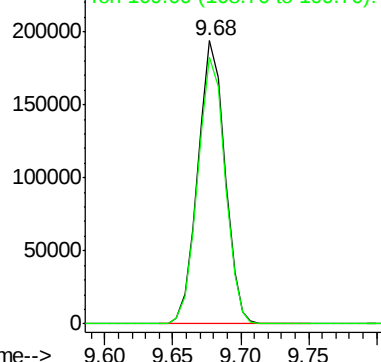
Ion Ratio Lower Upper

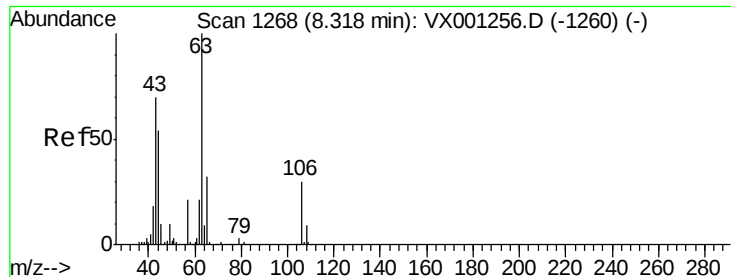
107 100

109 95.4 74.5 111.7



Abundance Ion 107.00 (106.70 to 107.70): V





#55

2-Chloroethyl vinyl ether

Concen: 513.223 ug/l

RT: 8.32 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

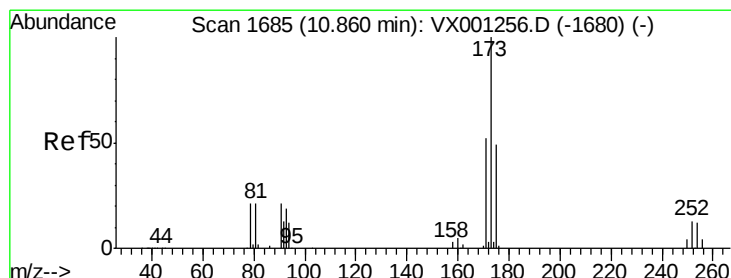
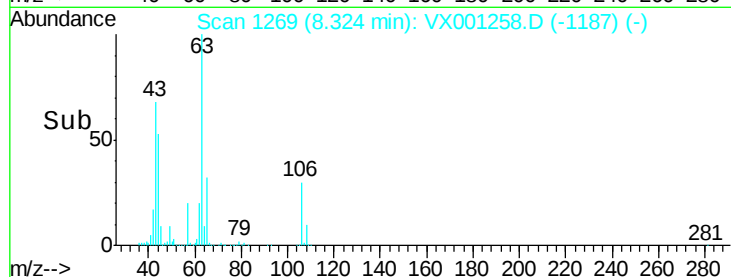
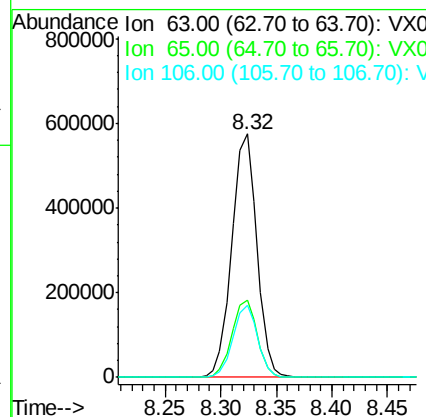
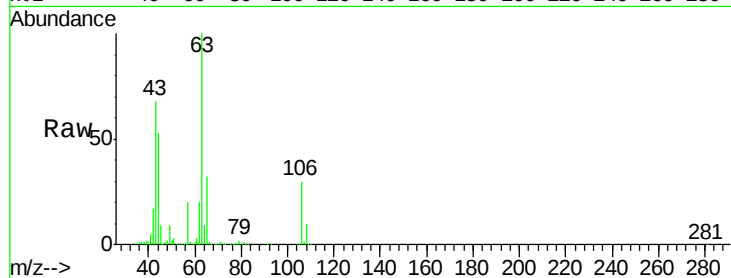
Tot Ion: 63 Resp: 892325

Ion Ratio Lower Upper

63 100

65 32.2 25.8 38.8

106 29.4 23.8 35.6



#56

Bromoform

Concen: 107.506 ug/l

RT: 10.86 min Scan# 1685

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

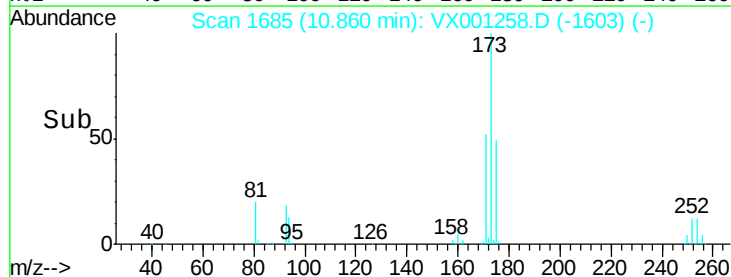
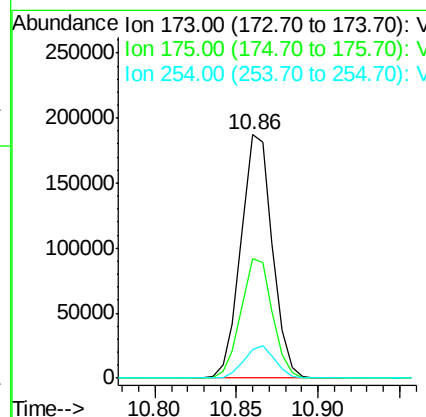
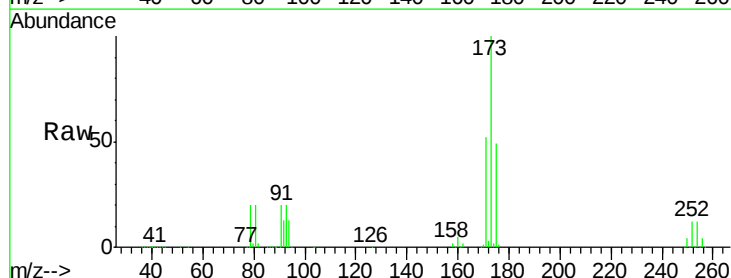
Tgt Ion:173 Resp: 251758

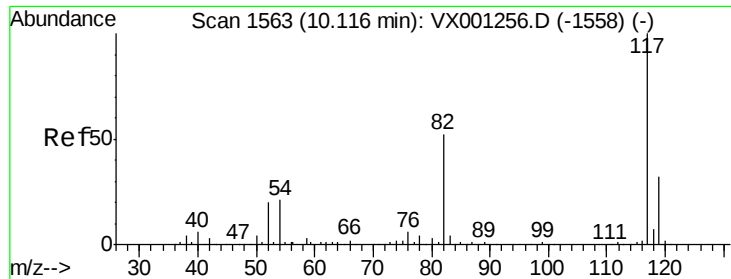
Ion Ratio Lower Upper

173 100

175 49.3 39.0 58.4

254 13.1 7.0 10.4#

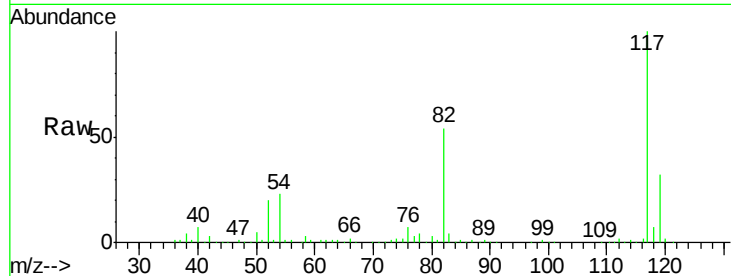




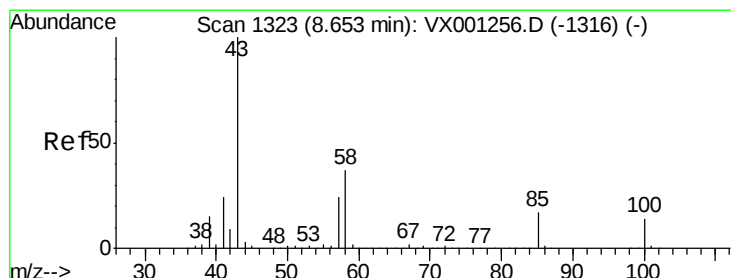
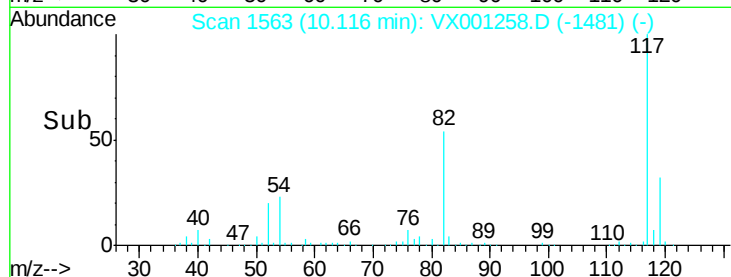
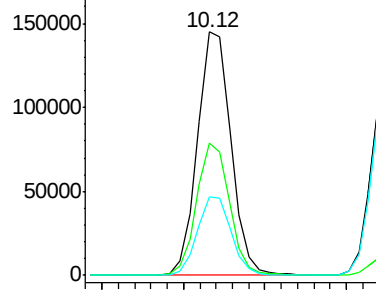
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. 0.00 min  
Lab File: VX001258.D  
Acq: 30 Apr 2018 11:52

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

Tot Ion:117 Resp: 207212  
Ion Ratio Lower Upper  
117 100  
82 53.5 43.0 64.4  
119 32.8 25.8 38.8

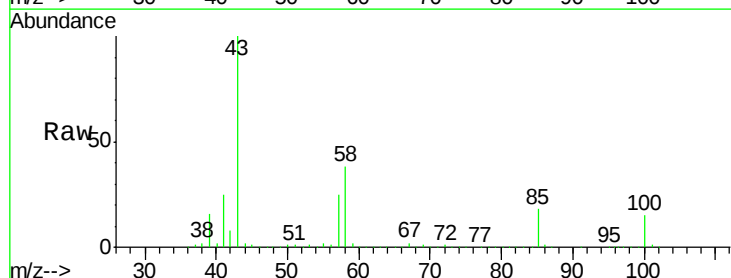


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 119.00 (118.70 to 119.70): V

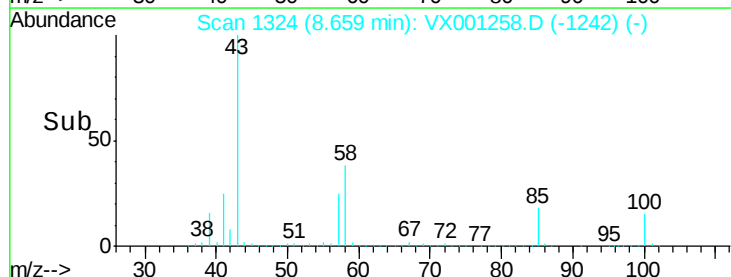
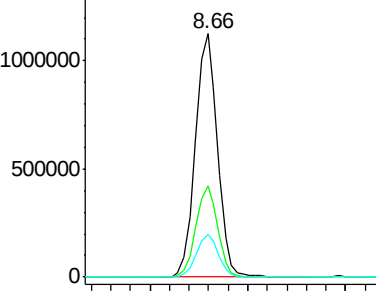


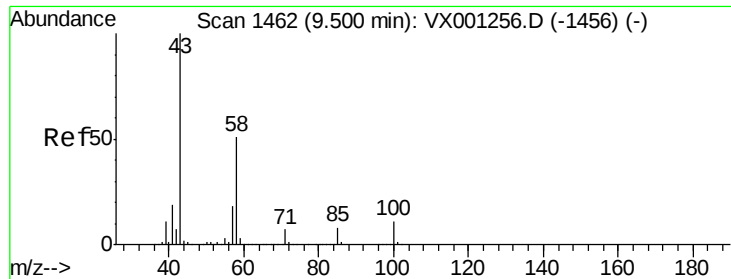
#58  
4-Methyl-2-Pentanone  
Concen: 386.427 ug/l  
RT: 8.66 min Scan# 1324  
Delta R.T. 0.00 min  
Lab File: VX001258.D  
Acq: 30 Apr 2018 11:52

Tgt Ion: 43 Resp: 1753865  
Ion Ratio Lower Upper  
43 100  
58 37.5 29.8 44.8  
85 17.5 14.9 22.3



Abundance Ion 43.00 (42.70 to 43.70): VX0  
Ion 58.00 (57.70 to 58.70): VX0  
Ion 85.00 (84.70 to 85.70): VX0

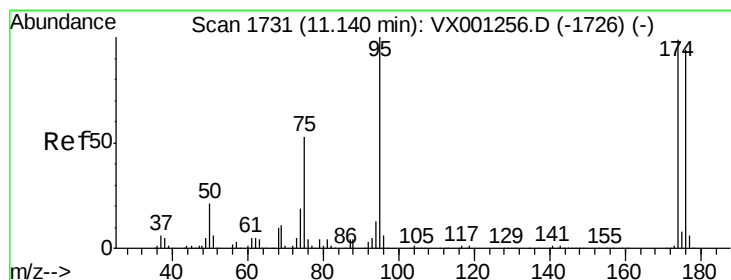
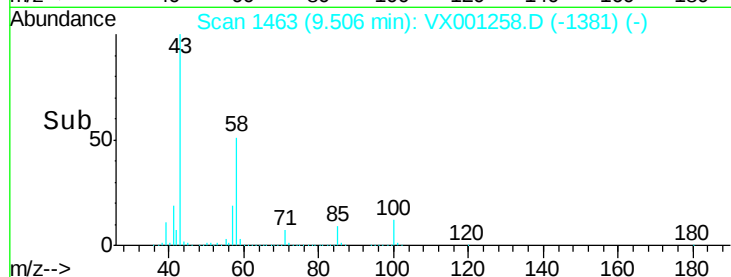
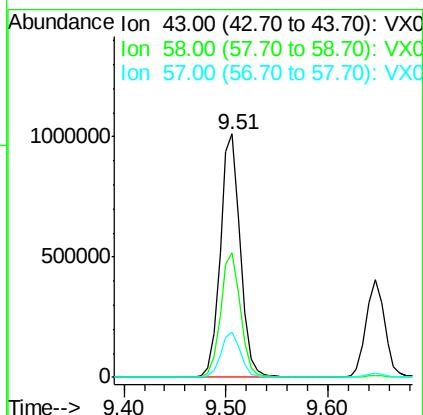
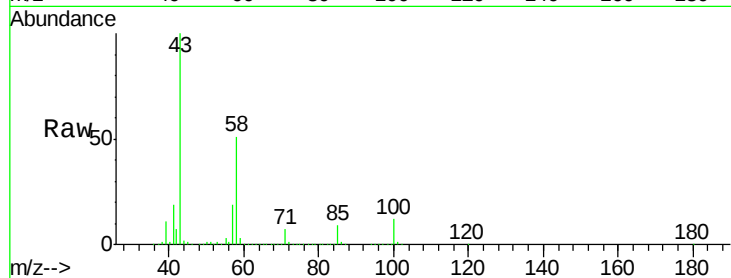




#59  
2-Hexanone  
Concen: 359.251 ug/l  
RT: 9.51 min Scan# 1463  
Delta R.T. 0.00 min  
Lab File: VX001258.D  
Acq: 30 Apr 2018 11:52

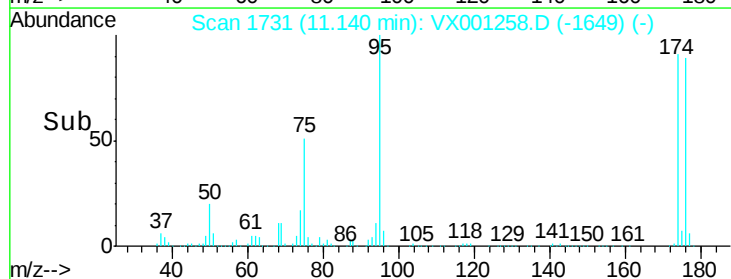
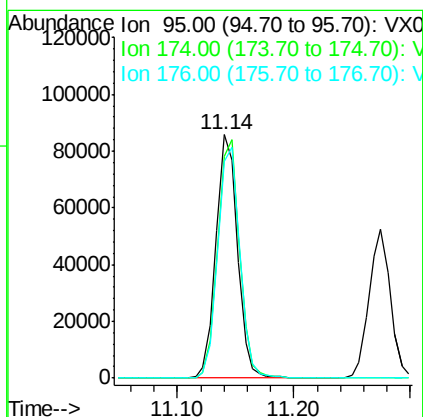
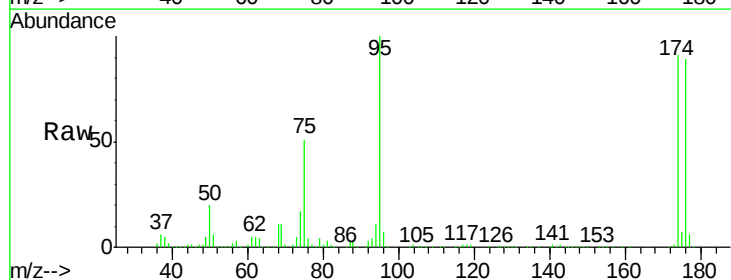
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

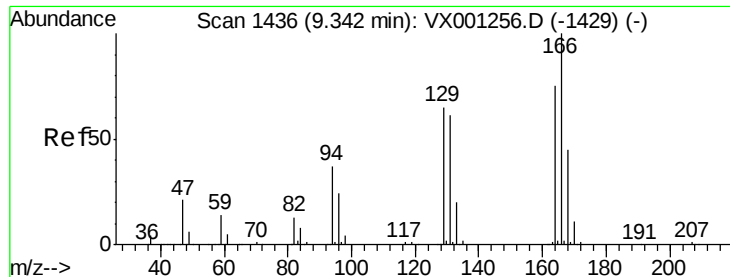
Tot Ion: 43 Resp: 1380692  
Ion Ratio Lower Upper  
43 100  
58 51.0 43.0 64.6  
57 18.5 14.4 21.6



#60  
4-Bromofluorobenzene  
Concen: 32.130 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. 0.00 min  
Lab File: VX001258.D  
Acq: 30 Apr 2018 11:52

Tgt Ion: 95 Resp: 108918  
Ion Ratio Lower Upper  
95 100  
174 99.8 71.1 106.7  
176 97.6 69.3 103.9





#61

Tetrachloroethene

Concen: 115.238 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

Tot Ion:164 Resp: 289941

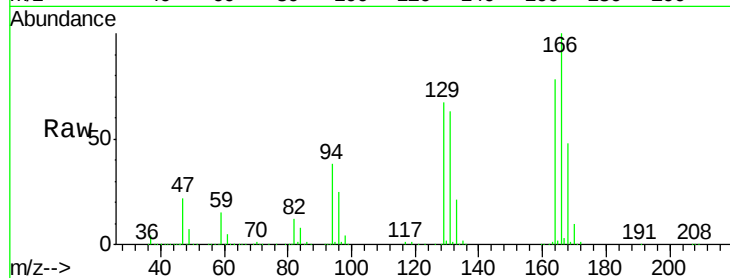
Ion Ratio Lower Upper

164 100

166 128.1 99.0 148.4

129 85.2 77.0 115.6

131 81.3 75.8 113.6

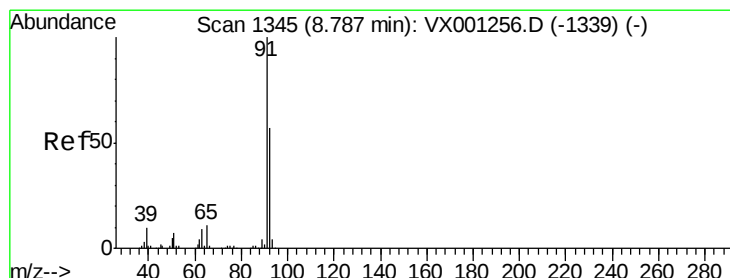
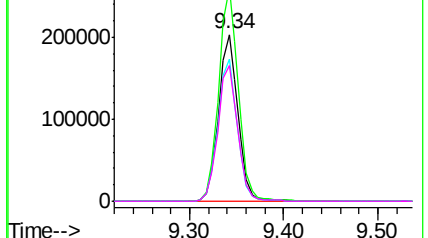
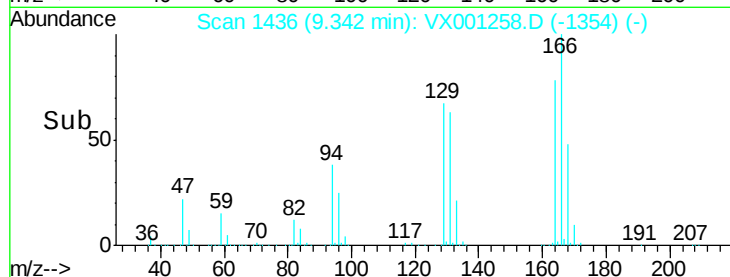


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 100.155 ug/l

RT: 8.79 min Scan# 1346

Delta R.T. 0.00 min

Lab File: VX001258.D

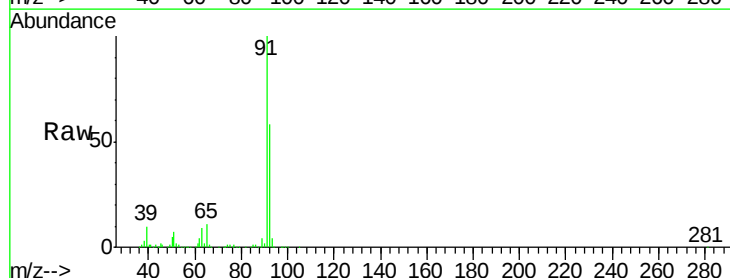
Acq: 30 Apr 2018 11:52

Tgt Ion: 91 Resp: 1079783

Ion Ratio Lower Upper

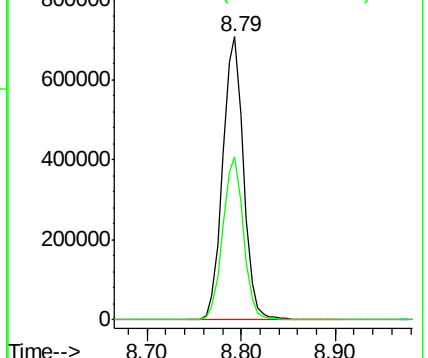
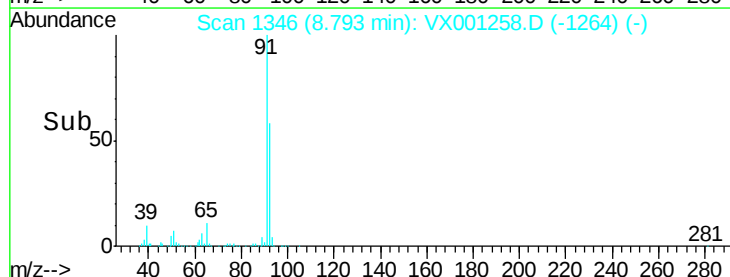
91 100

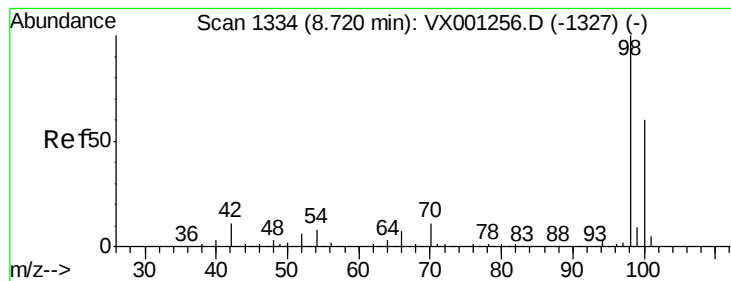
92 57.4 45.4 68.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0





#63

Toluene-d8

Concen: 30.379 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

Instrument :

MSVOA\_X

ClientSampleId :

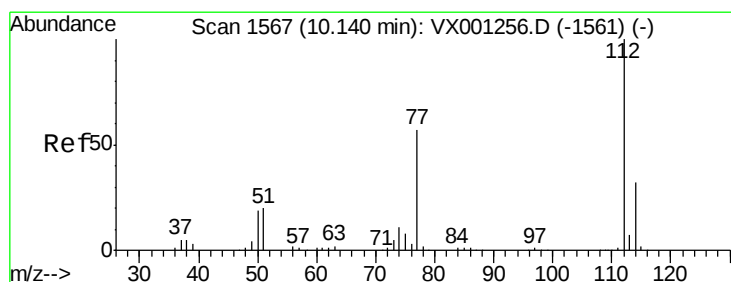
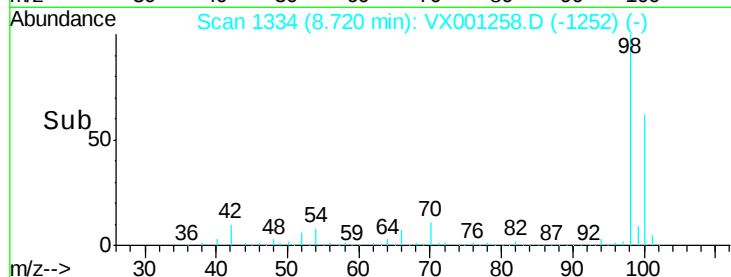
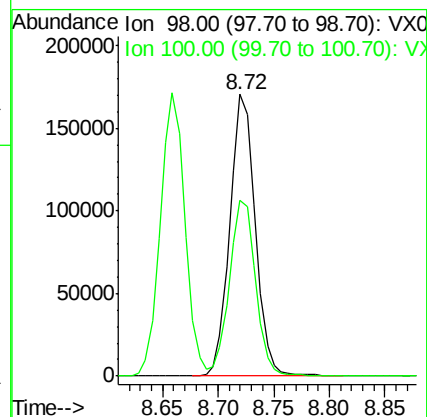
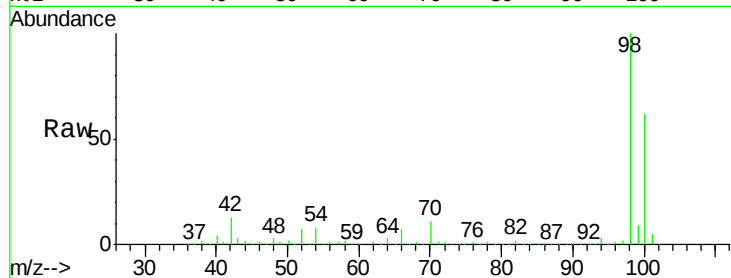
VSTDIC100

Tot Ion: 98 Resp: 269634

Ion Ratio Lower Upper

98 100

100 64.3 50.0 75.0



#64

Chlorobenzene

Concen: 99.247 ug/l

RT: 10.15 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VX001258.D

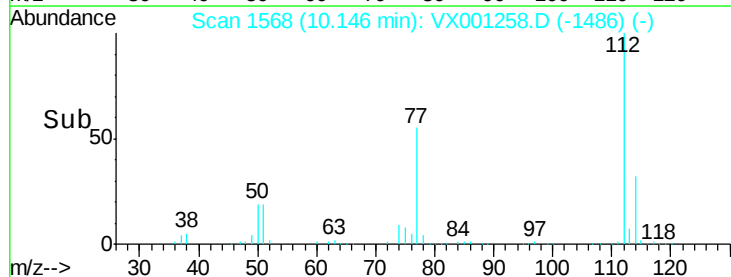
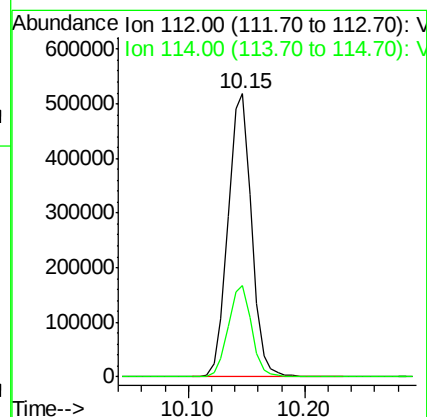
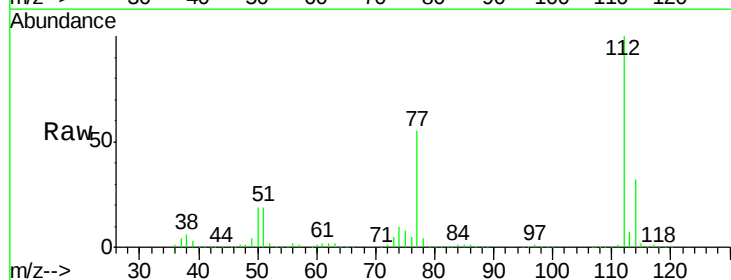
Acq: 30 Apr 2018 11:52

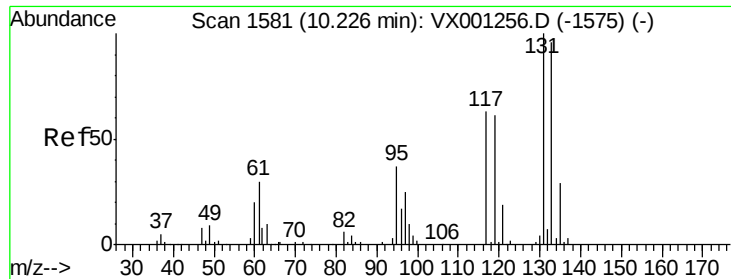
Tgt Ion: 112 Resp: 723052

Ion Ratio Lower Upper

112 100

114 32.2 26.4 39.6

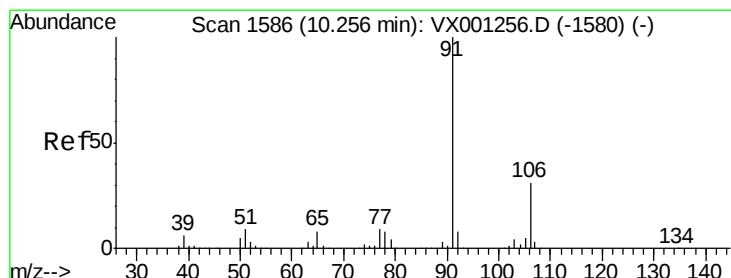
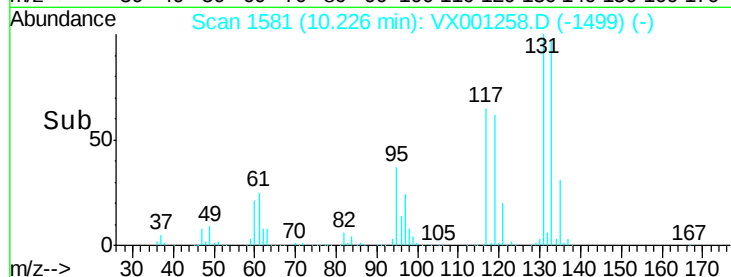
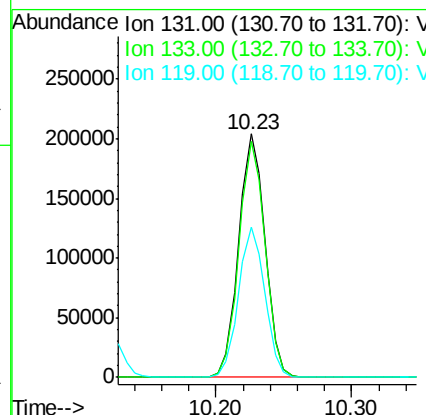
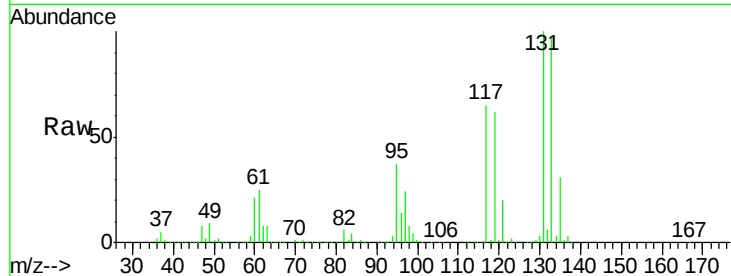




#65  
 1,1,1,2-Tetrachloroethane  
 Concen: 106.482 ug/l  
 RT: 10.23 min Scan# 1581  
 Delta R.T. 0.00 min  
 Lab File: VX001258.D  
 Acq: 30 Apr 2018 11:52

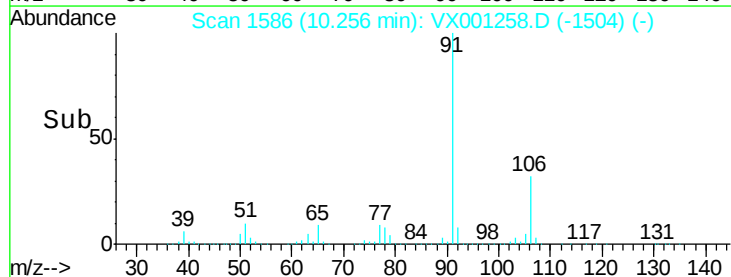
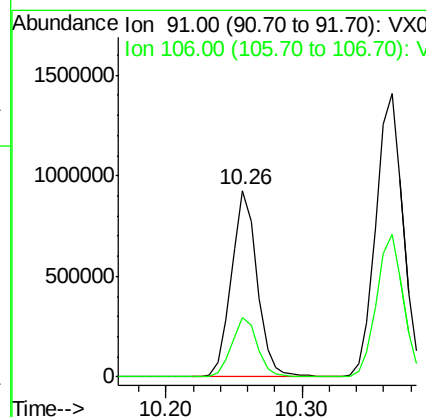
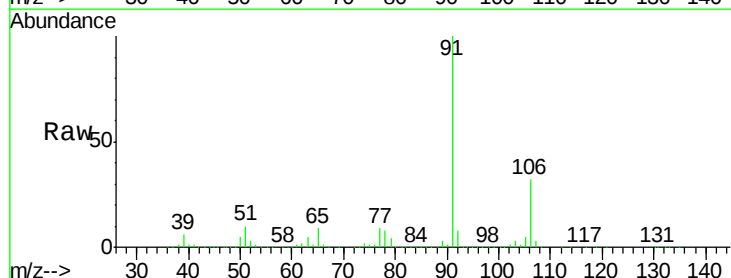
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC100

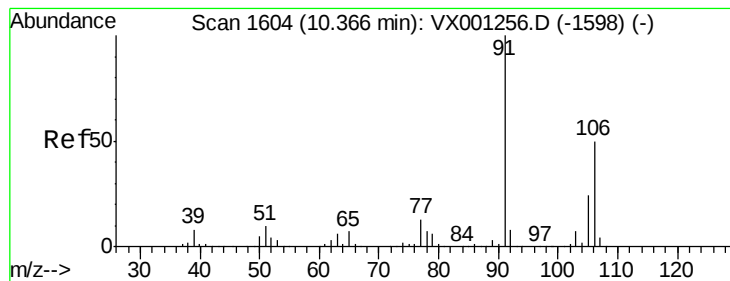
Tot Ion:131 Resp: 274779  
 Ion Ratio Lower Upper  
 131 100  
 133 96.1 0.0 187.6  
 119 61.7 0.0 134.0



#66  
 Ethyl Benzene  
 Concen: 99.116 ug/l  
 RT: 10.26 min Scan# 1586  
 Delta R.T. 0.00 min  
 Lab File: VX001258.D  
 Acq: 30 Apr 2018 11:52

Tgt Ion: 91 Resp: 1219719  
 Ion Ratio Lower Upper  
 91 100  
 106 31.5 25.9 38.9





#67

m/p-Xvlenes

Concen: 202.025 ug/l

RT: 10.37 min Scan# 1604

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

Instrument :

MSVOA\_X

ClientSampleId :

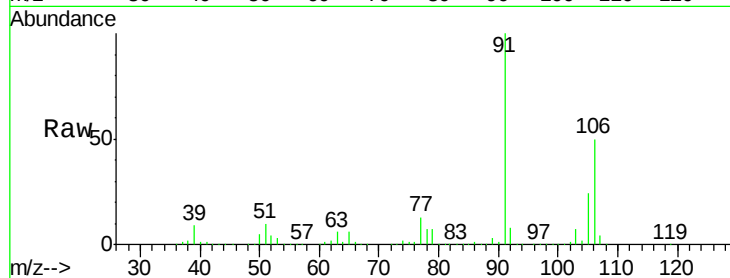
VSTDIC100

Tot Ion:106 Resp: 974609

Ion Ratio Lower Upper

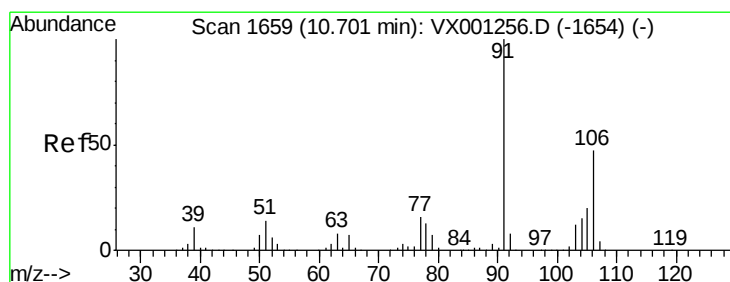
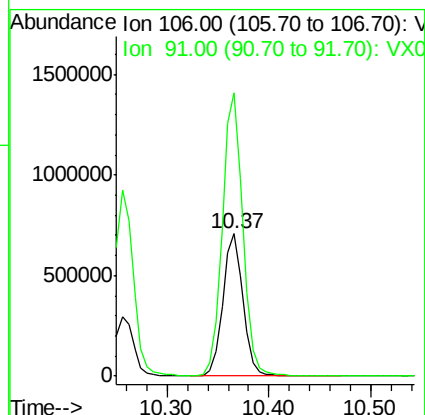
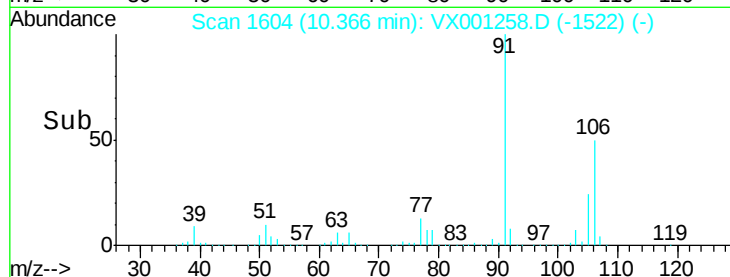
106 100

91 202.4 161.6 242.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#68

o-Xylene

Concen: 101.284 ug/l

RT: 10.71 min Scan# 1660

Delta R.T. 0.00 min

Lab File: VX001258.D

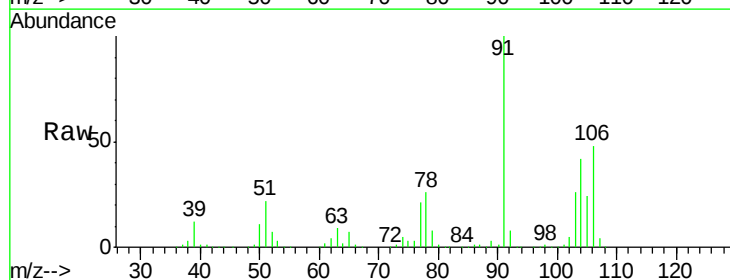
Acq: 30 Apr 2018 11:52

Tgt Ion:106 Resp: 474602

Ion Ratio Lower Upper

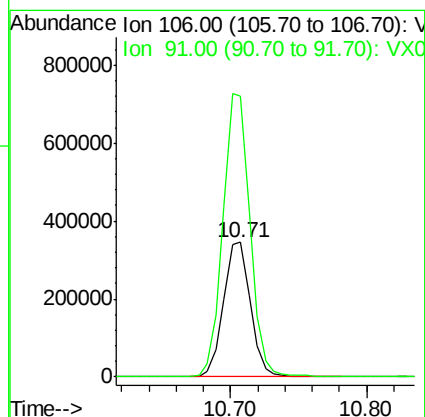
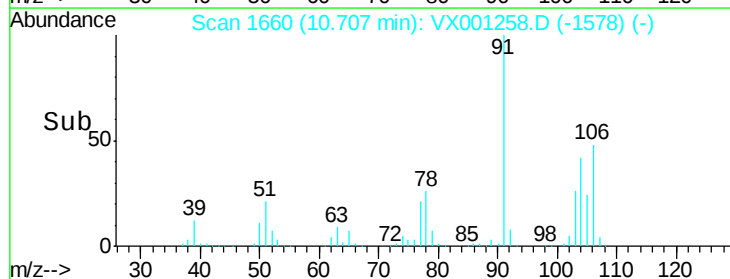
106 100

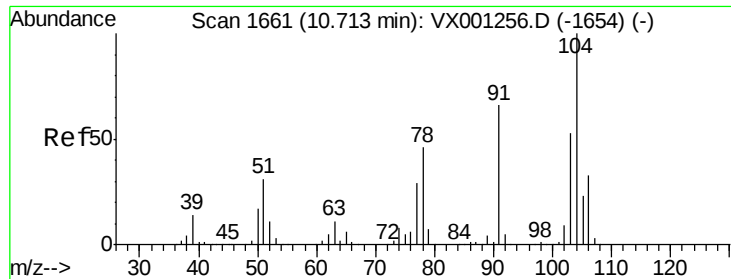
91 211.3 105.6 316.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

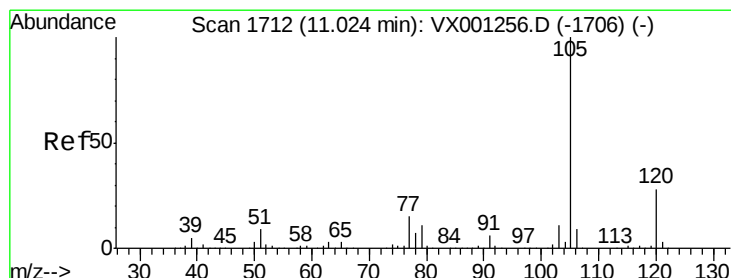
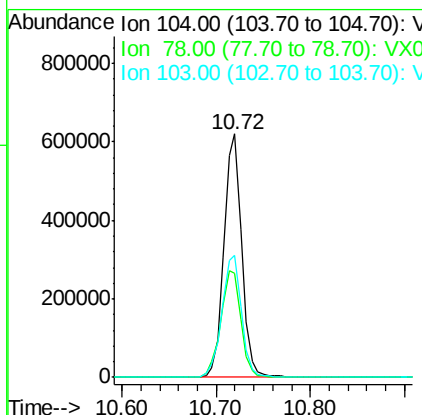
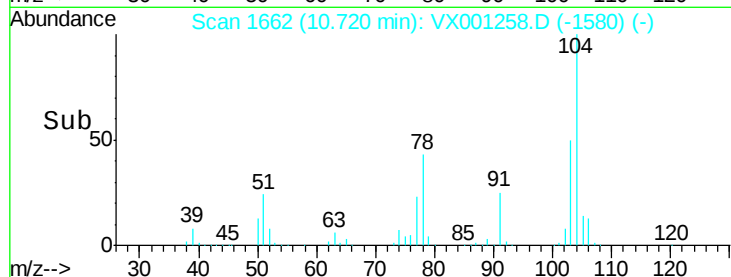
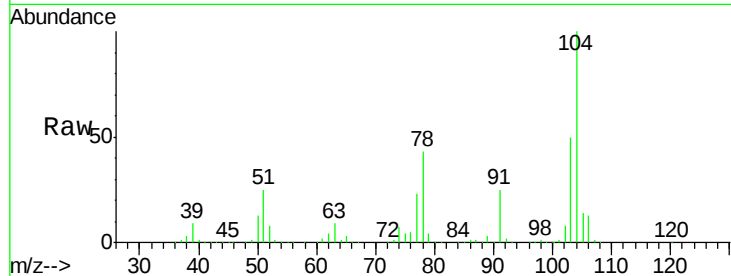




#69  
Stvrene  
Concen: 104.280 ug/l  
RT: 10.72 min Scan# 1662  
Delta R.T. 0.00 min  
Lab File: VX001258.D  
Acq: 30 Apr 2018 11:52

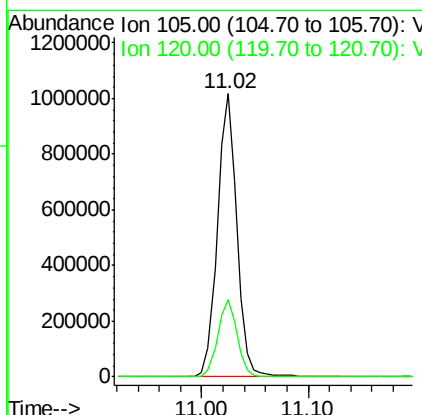
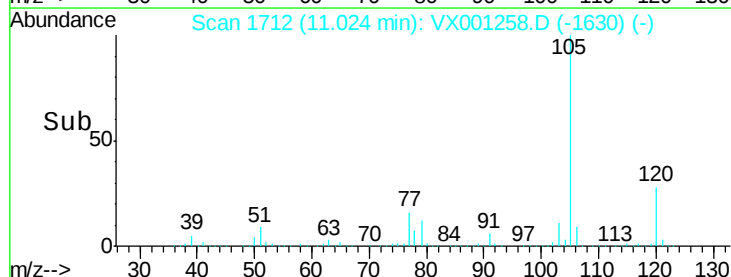
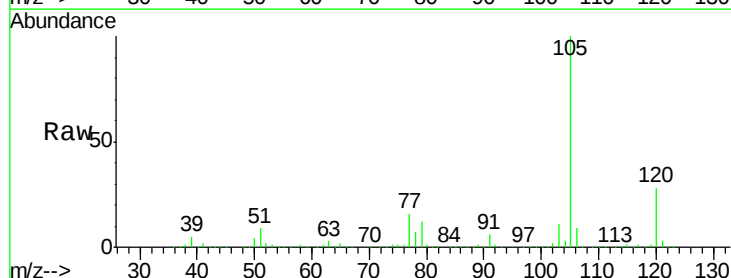
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

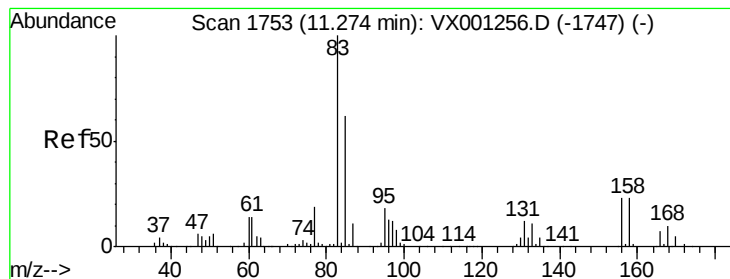
Tot Ion:104 Resp: 809445  
Ion Ratio Lower Upper  
104 100  
78 49.8 39.0 58.4  
103 55.5 44.7 67.1



#70  
Isopropylbenzene  
Concen: 101.313 ug/l  
RT: 11.02 min Scan# 1712  
Delta R.T. 0.00 min  
Lab File: VX001258.D  
Acq: 30 Apr 2018 11:52

Tgt Ion:105 Resp: 1283275  
Ion Ratio Lower Upper  
105 100  
120 27.4 18.8 35.0

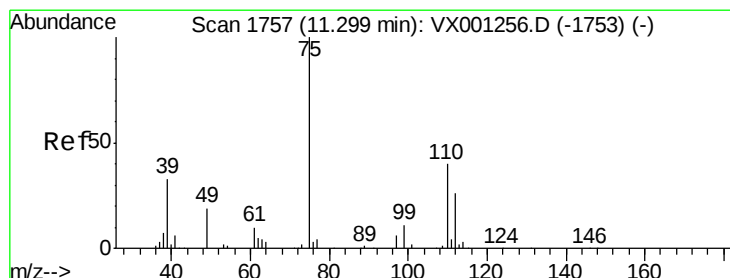
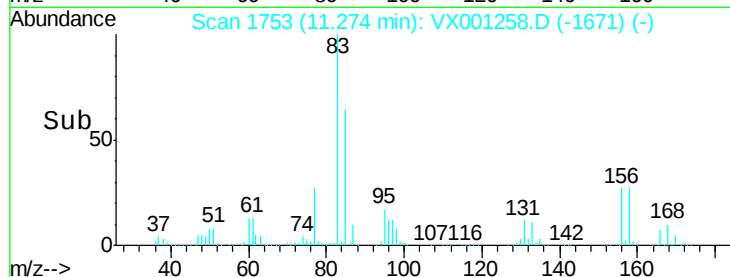
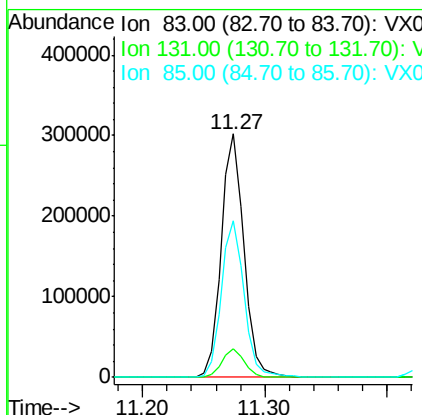
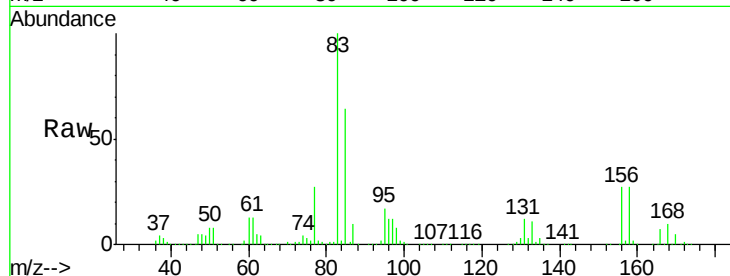




#71  
 1,1,2,2-Tetrachloroethane  
 Concen: 89.314 ug/l  
 RT: 11.27 min Scan# 1753  
 Delta R.T. 0.00 min  
 Lab File: VX001258.D  
 Acq: 30 Apr 2018 11:52

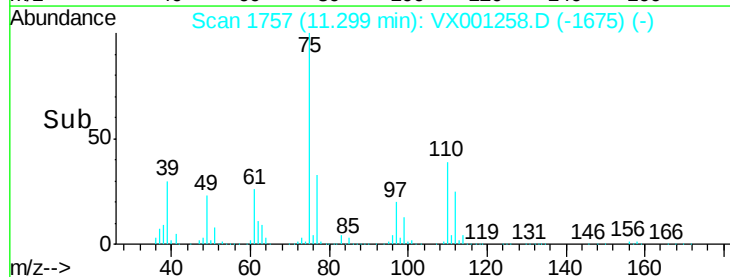
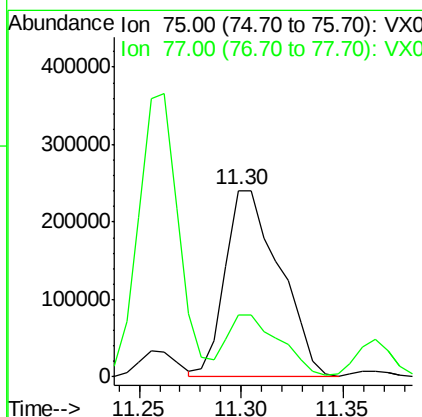
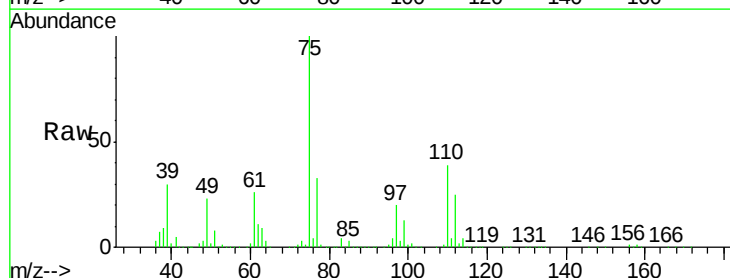
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC100

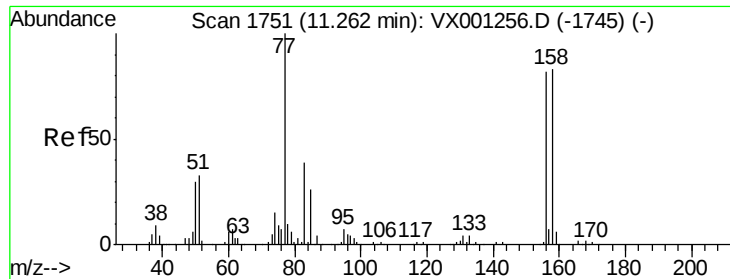
| Tot Ion   | 83    | Resp  | 389269 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 131       | 11.5  | 5.3   | 16.1   |
| 85        | 64.6  | 32.5  | 97.5   |



#72  
 1,2,3-Trichloropropane  
 Concen: 115.089 ug/l  
 RT: 11.30 min Scan# 1757  
 Delta R.T. 0.00 min  
 Lab File: VX001258.D  
 Acq: 30 Apr 2018 11:52

| Tgt Ion   | 75    | Resp  | 449940 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 77        | 31.6  | 0.0   | 85.8   |





#73

Bromobenzene

Concen: 111.837 ug/l

RT: 11.26 min Scan# 1751

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

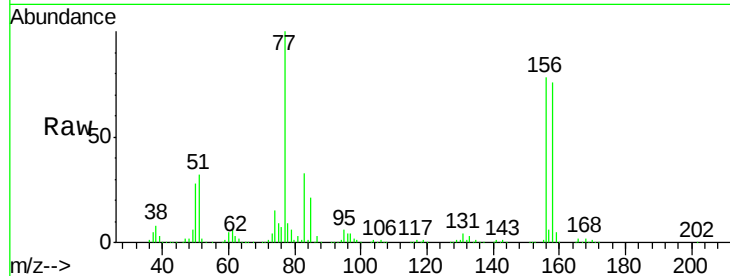
Tot Ion:156 Resp: 371385

Ion Ratio Lower Upper

156 100

77 134.0 0.0 280.2

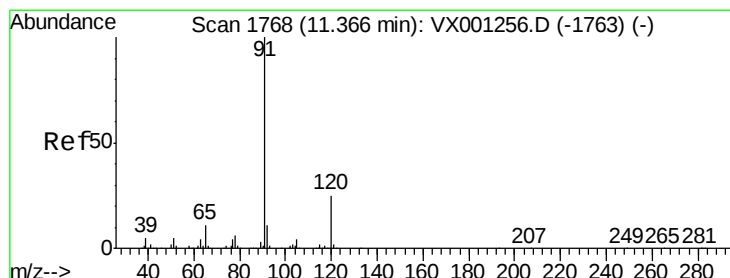
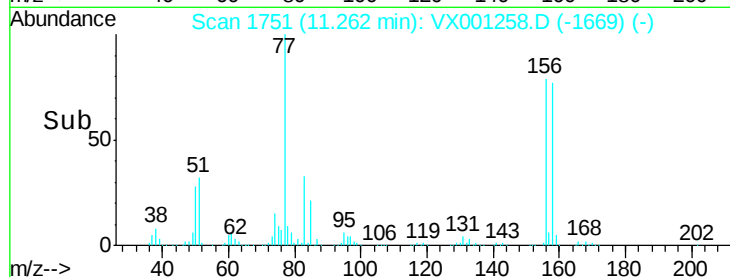
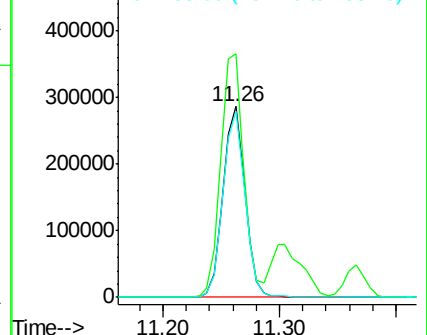
158 97.9 0.0 197.2



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 98.596 ug/l

RT: 11.37 min Scan# 1768

Delta R.T. 0.00 min

Lab File: VX001258.D

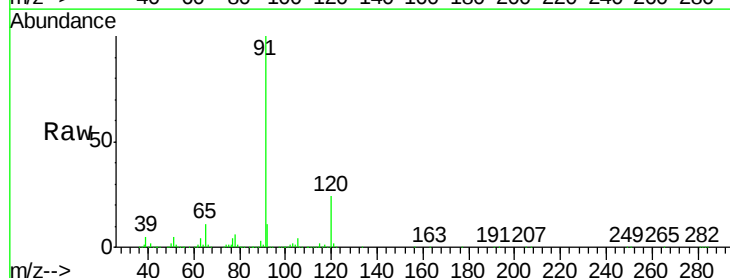
Acq: 30 Apr 2018 11:52

Tgt Ion: 91 Resp: 1463869

Ion Ratio Lower Upper

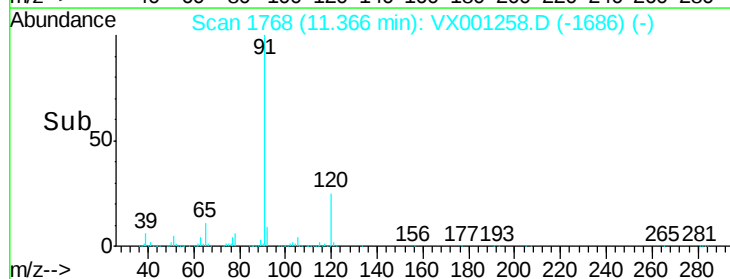
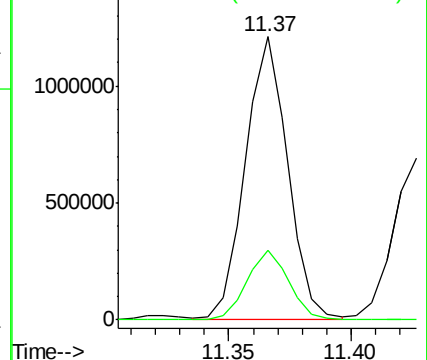
91 100

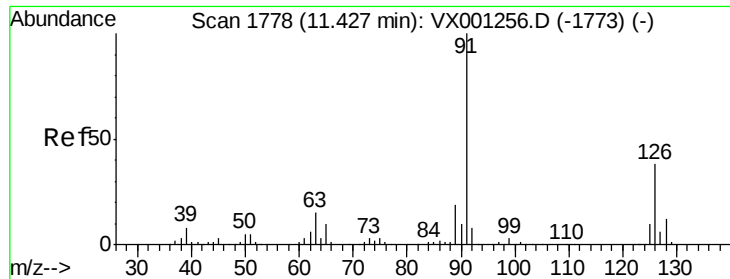
120 24.4 0.0 47.4



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 103.088 ug/l

RT: 11.43 min Scan# 1778

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

Instrument :

MSVOA\_X

ClientSampleId :

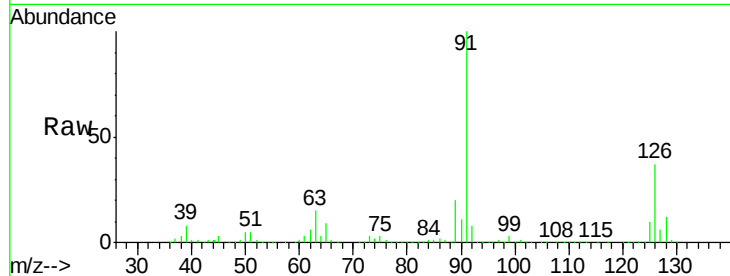
VSTDIC100

Tot Ion: 91 Resp: 879941

Ion Ratio Lower Upper

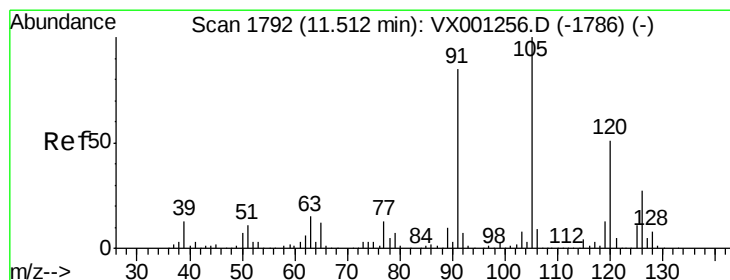
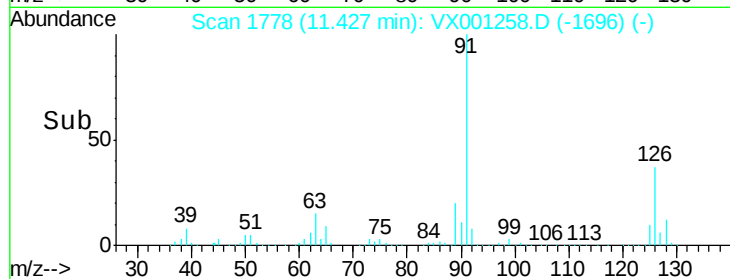
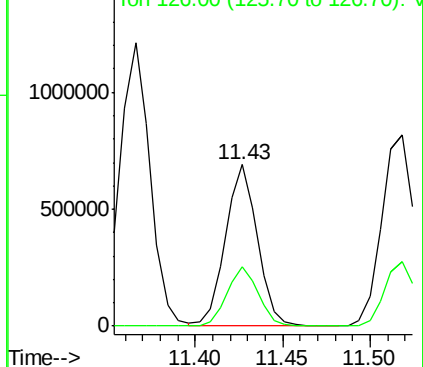
91 100

126 36.0 0.0 71.4



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 126.00 (125.70 to 126.70): V



#76

1,3,5-Trimethylbenzene

Concen: 103.410 ug/l

RT: 11.51 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX001258.D

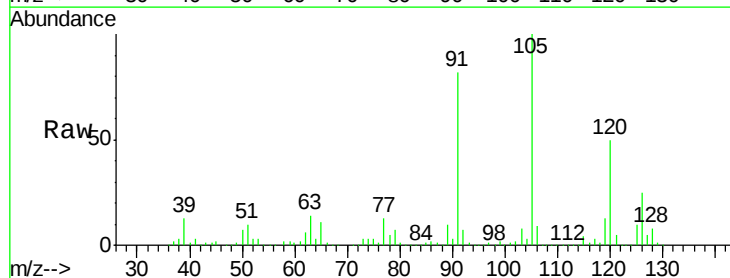
Acq: 30 Apr 2018 11:52

Tgt Ion:105 Resp: 1110033

Ion Ratio Lower Upper

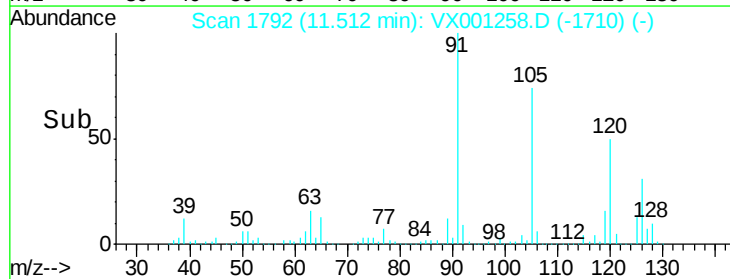
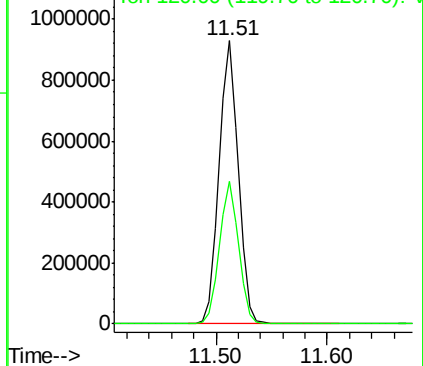
105 100

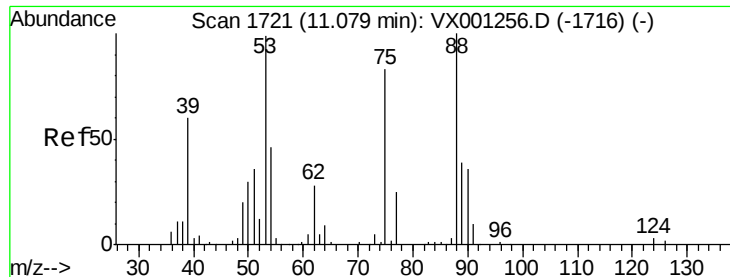
120 49.9 0.0 63.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#77

t-1,4-Dichloro-2-butene

Concen: 84.604 ug/l

RT: 11.08 min Scan# 1721

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

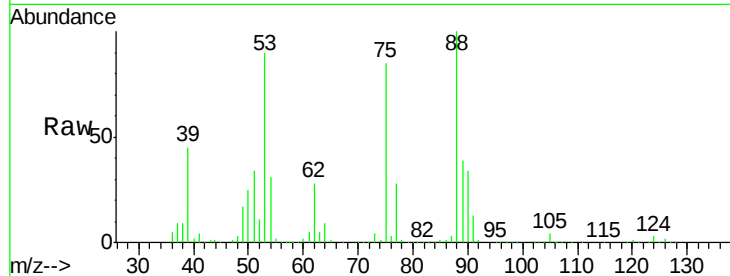
Tot Ion: 75 Resp: 116964

Ion Ratio Lower Upper

75 100

53 105.6 47.8 143.3

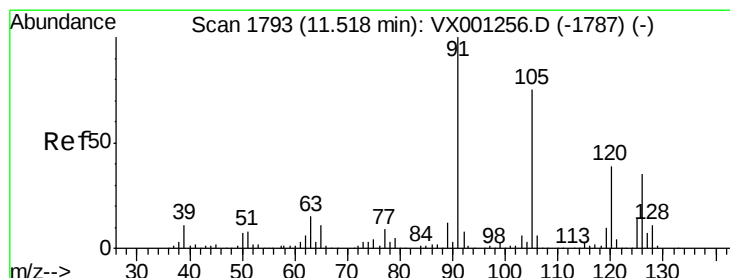
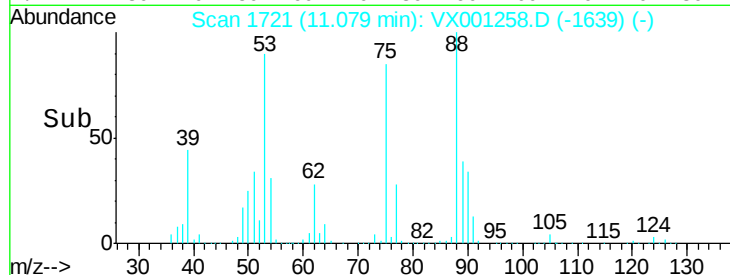
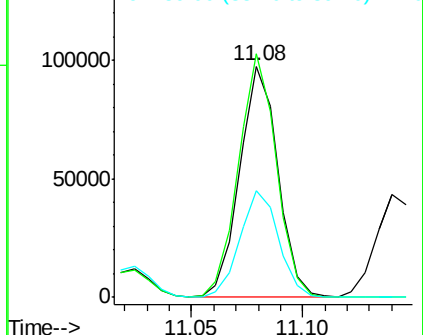
89 46.1 22.3 66.8



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: 104.016 ug/l

RT: 11.52 min Scan# 1793

Delta R.T. 0.00 min

Lab File: VX001258.D

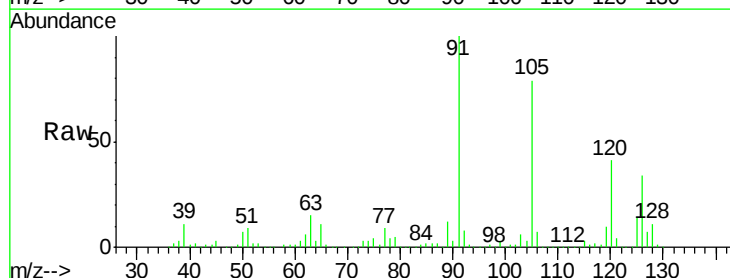
Acq: 30 Apr 2018 11:52

Tgt Ion: 91 Resp: 1063697

Ion Ratio Lower Upper

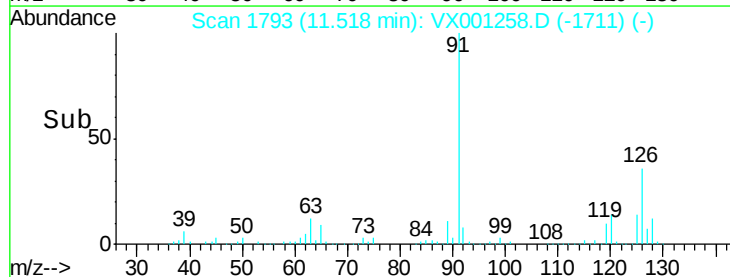
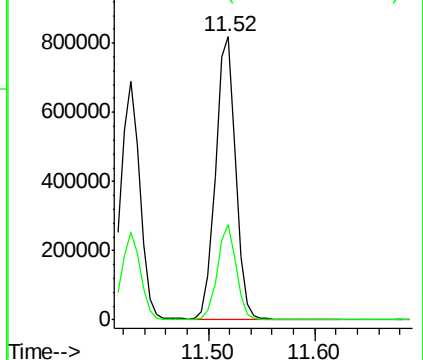
91 100

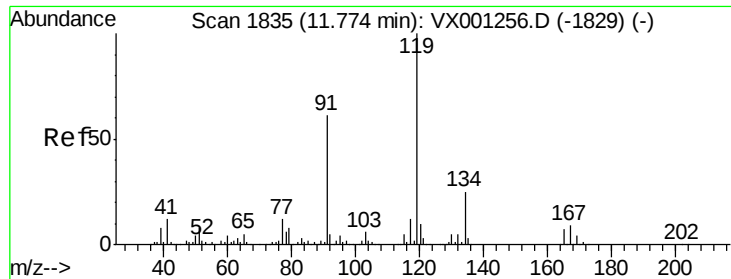
126 31.9 0.0 63.4



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 126.00 (125.70 to 126.70): V

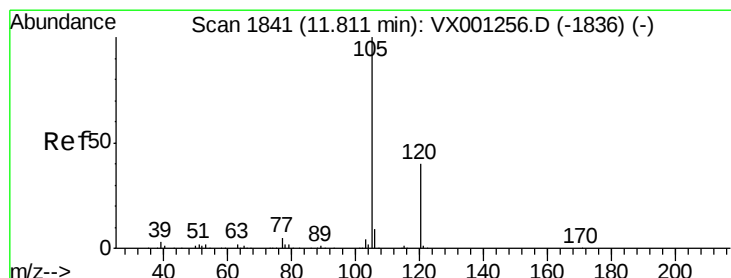
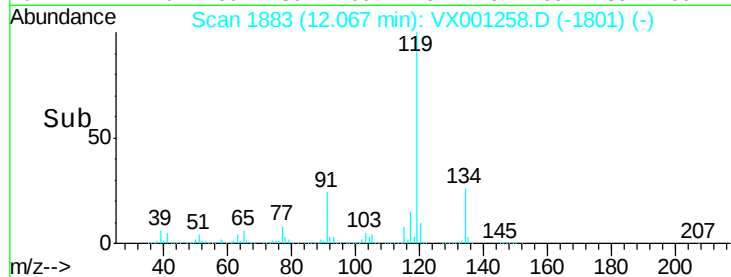
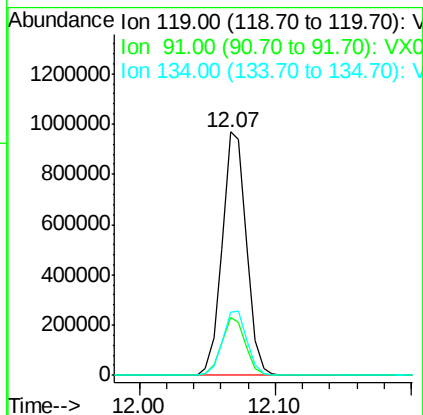
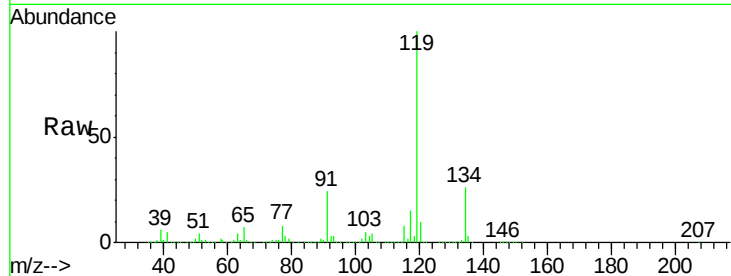




#79  
tert-butylbenzene  
Concen: 111.252 ug/l  
RT: 12.07 min Scan# 1883  
Delta R.T. 0.00 min  
Lab File: VX001258.D  
Acq: 30 Apr 2018 11:52

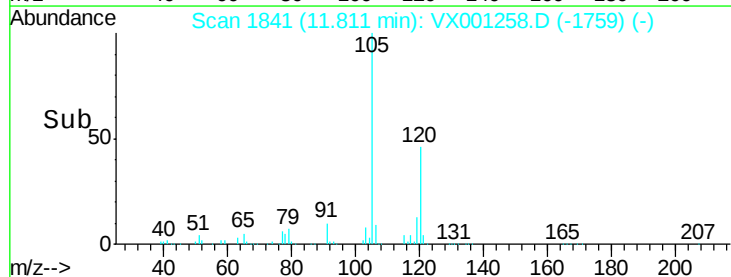
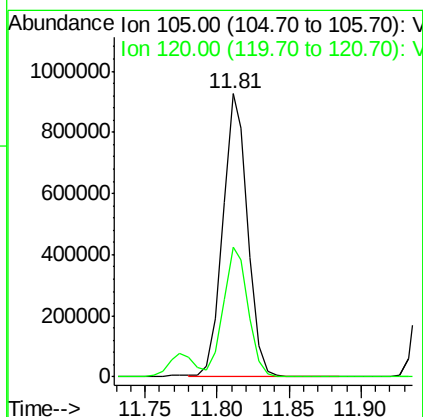
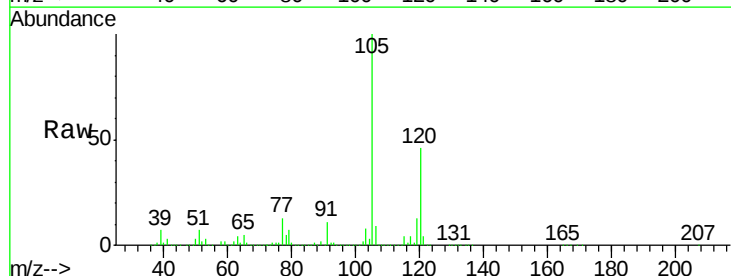
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

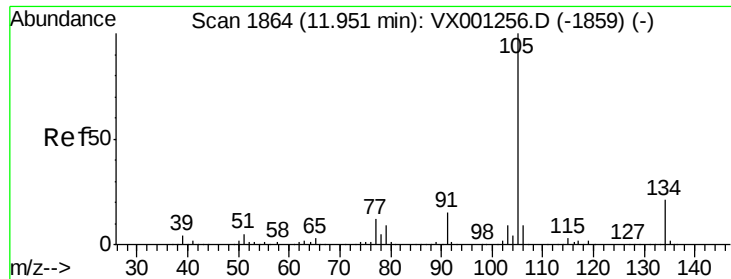
Tot Ion:119 Resp: 1188634  
Ion Ratio Lower Upper  
119 100  
91 23.2 0.0 51.6  
134 26.8 0.0 60.2



#80  
1,2,4-Trimethylbenzene  
Concen: 102.280 ug/l  
RT: 11.81 min Scan# 1841  
Delta R.T. 0.00 min  
Lab File: VX001258.D  
Acq: 30 Apr 2018 11:52

Tgt Ion:105 Resp: 1119961  
Ion Ratio Lower Upper  
105 100  
120 45.7 0.0 93.0

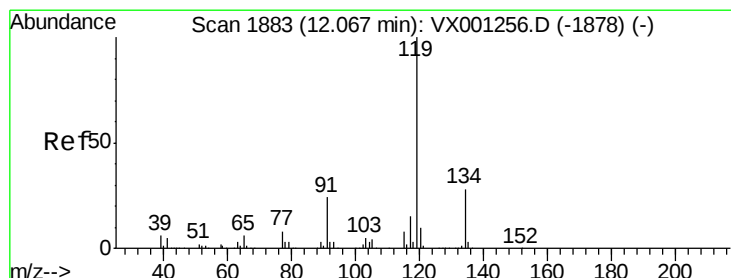
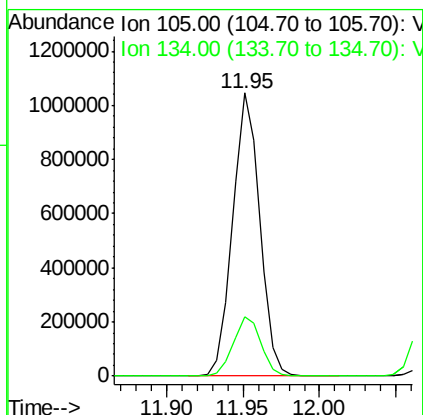
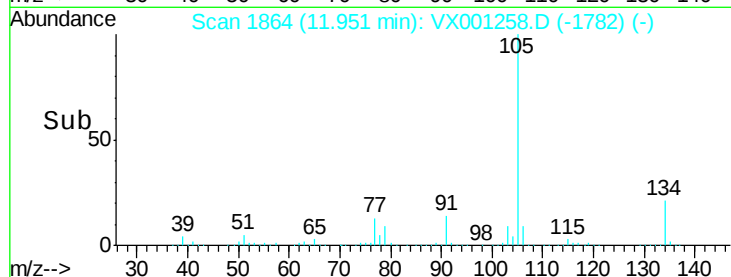
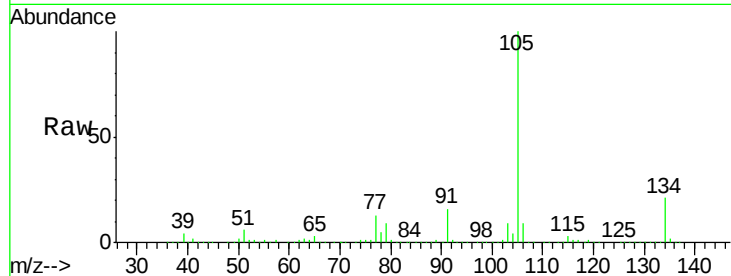




#81  
 sec-Butylbenzene  
 Concen: 97.250 ug/l  
 RT: 11.95 min Scan# 1864  
 Delta R.T. 0.00 min  
 Lab File: VX001258.D  
 Acq: 30 Apr 2018 11:52

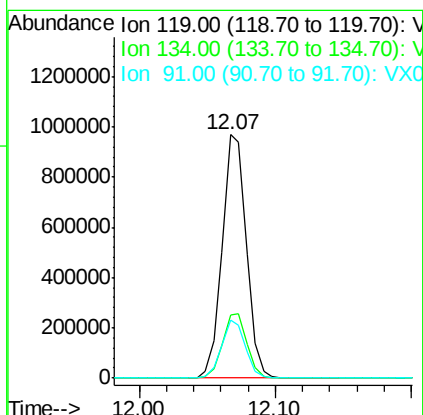
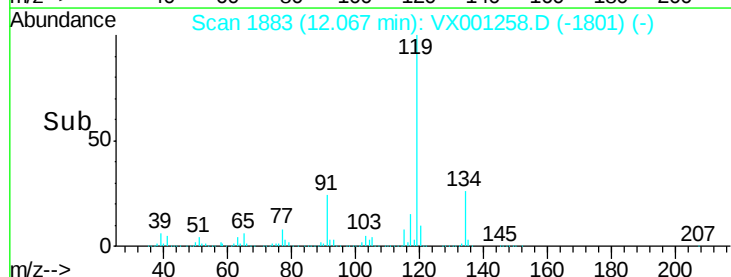
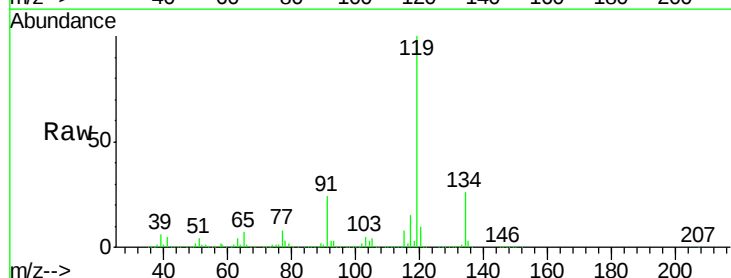
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC100

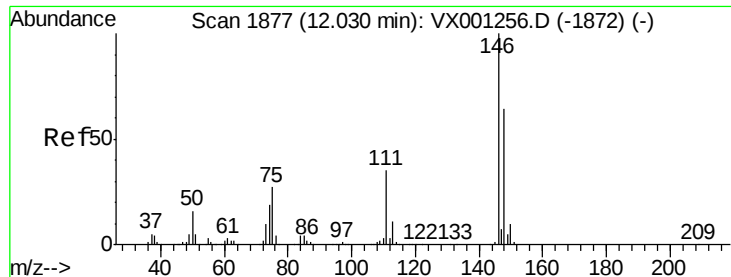
Tot Ion:105 Resp: 1284450  
 Ion Ratio Lower Upper  
 105 100  
 134 21.3 0.0 41.8



#82  
 p-Isopropyltoluene  
 Concen: 100.880 ug/l  
 RT: 12.07 min Scan# 1883  
 Delta R.T. 0.00 min  
 Lab File: VX001258.D  
 Acq: 30 Apr 2018 11:52

Tgt Ion:119 Resp: 1188634  
 Ion Ratio Lower Upper  
 119 100  
 134 26.8 0.0 54.4  
 91 23.2 0.0 46.6





#83

1,3-Dichlorobenzene

Concen: 107.938 ug/l

RT: 12.03 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

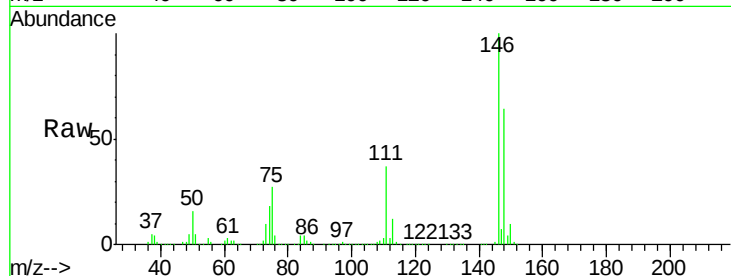
Tot Ion:146 Resp: 682436

Ion Ratio Lower Upper

146 100

111 36.4 19.4 58.2

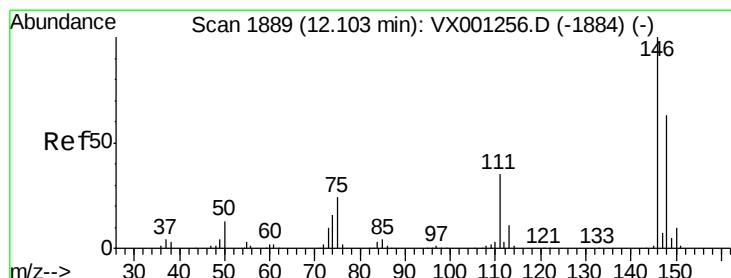
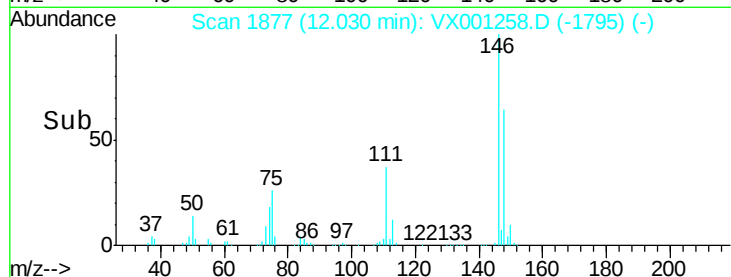
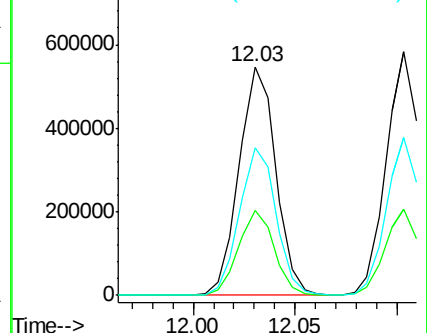
148 64.5 32.6 97.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#84

1,4-Dichlorobenzene

Concen: 105.667 ug/l

RT: 12.10 min Scan# 1889

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

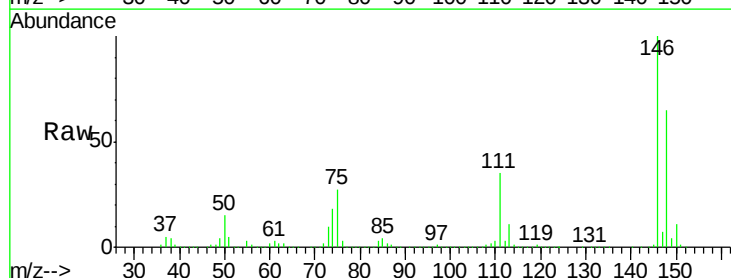
Tgt Ion:146 Resp: 696268

Ion Ratio Lower Upper

146 100

111 35.2 18.4 55.0

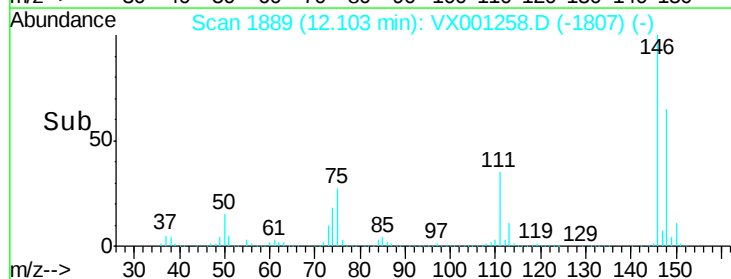
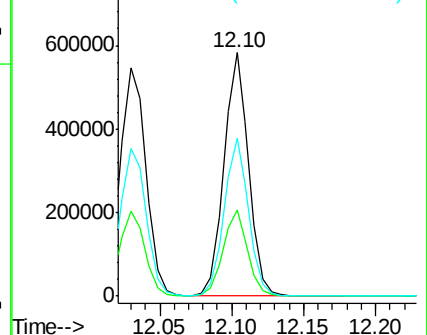
148 64.5 31.9 95.7

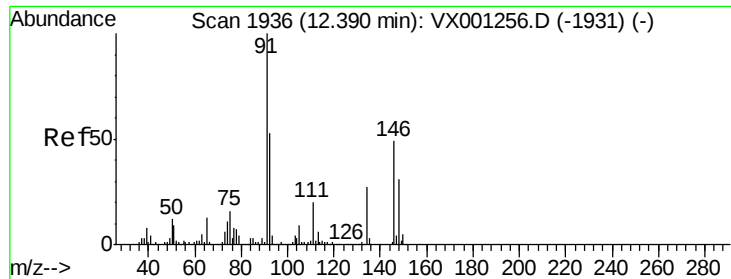


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

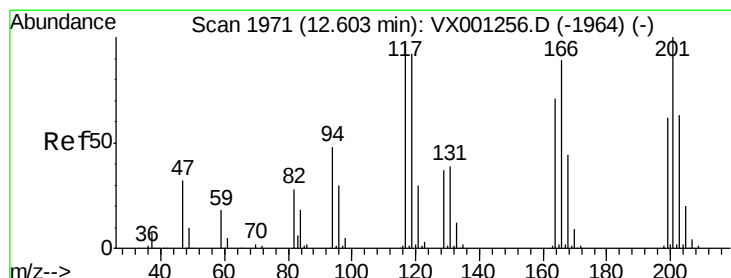
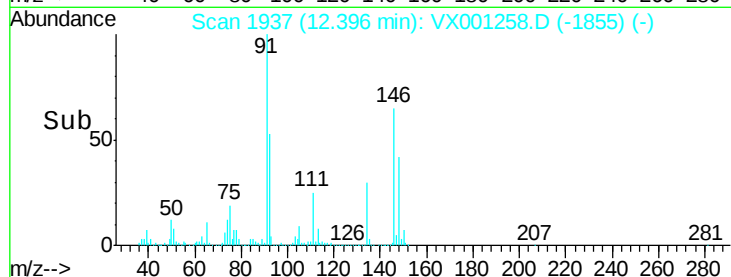
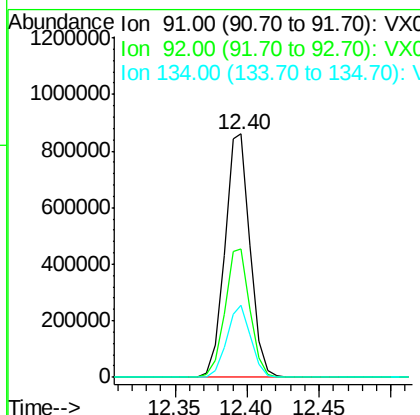
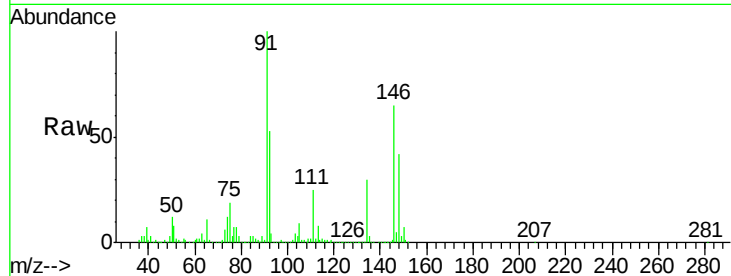




#85  
n-Butylbenzene  
Concen: 95.620 ug/l  
RT: 12.40 min Scan# 1937  
Delta R.T. 0.00 min  
Lab File: VX001258.D  
Acq: 30 Apr 2018 11:52

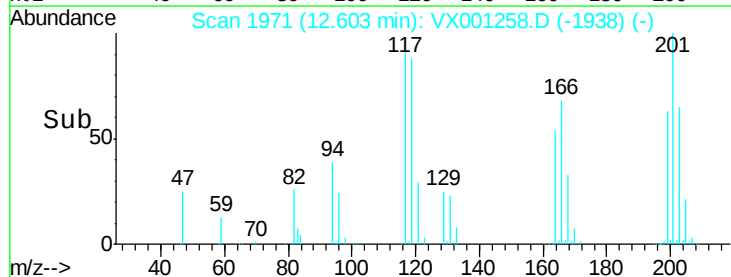
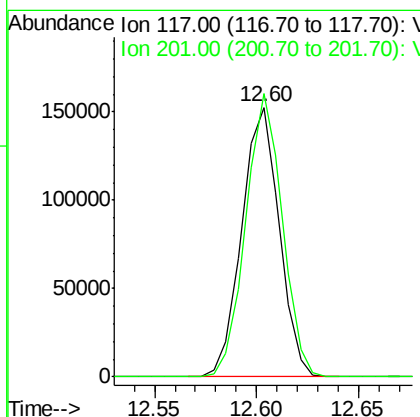
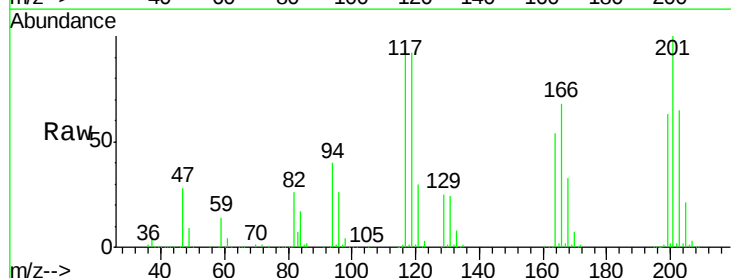
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC100

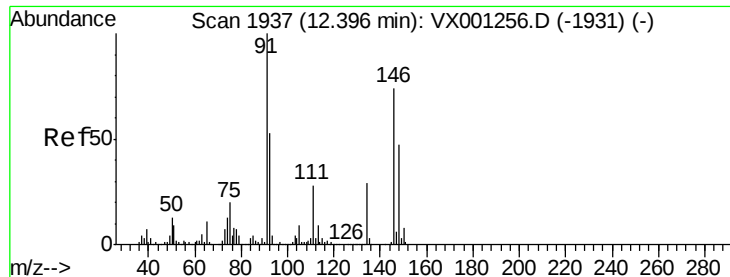
Tot Ion: 91 Resp: 1056709  
Ion Ratio Lower Upper  
91 100  
92 52.5 0.0 102.0  
134 28.2 0.0 54.2



#86  
Hexachloroethane  
Concen: 98.911 ug/l  
RT: 12.60 min Scan# 1971  
Delta R.T. 0.00 min  
Lab File: VX001258.D  
Acq: 30 Apr 2018 11:52

Tgt Ion: 117 Resp: 194677  
Ion Ratio Lower Upper  
117 100  
201 102.6 38.9 116.6

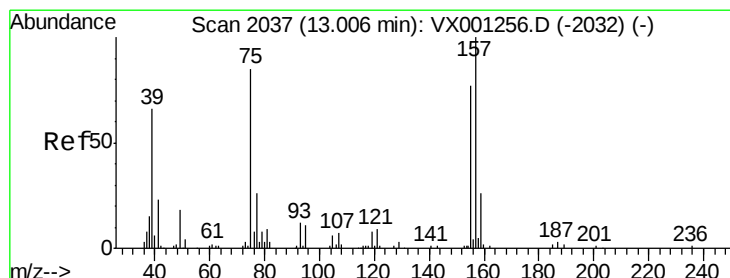
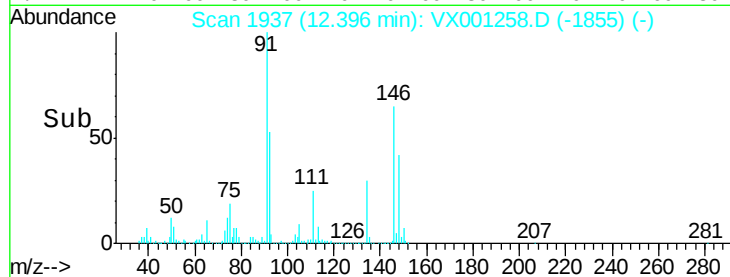
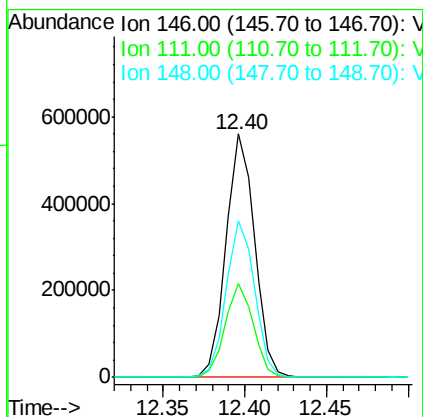
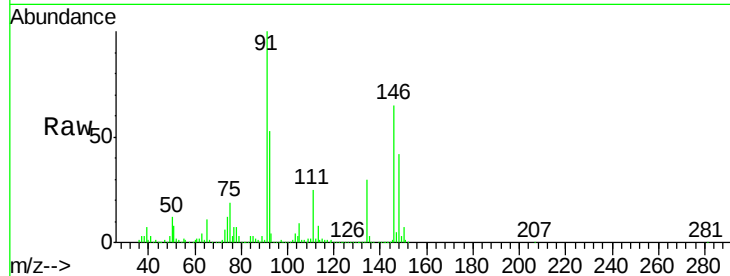




#87  
 1,2-Dichlorobenzene  
 Concen: 108.947 ug/l  
 RT: 12.40 min Scan# 1937  
 Delta R.T. 0.00 min  
 Lab File: VX001258.D  
 Acq: 30 Apr 2018 11:52

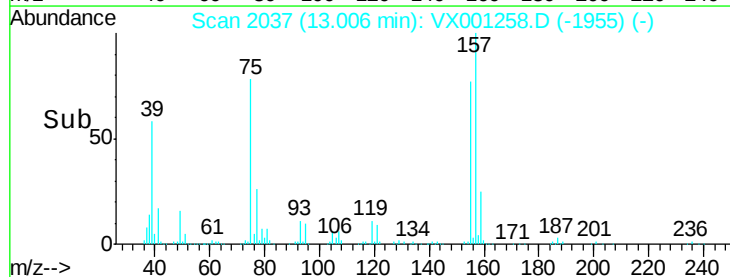
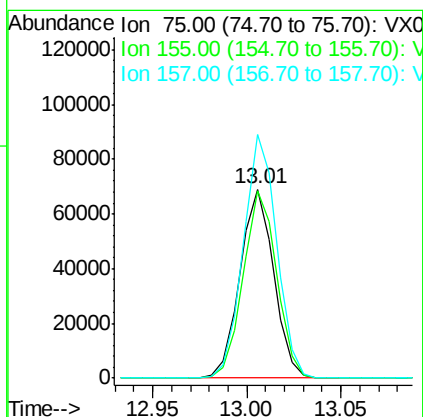
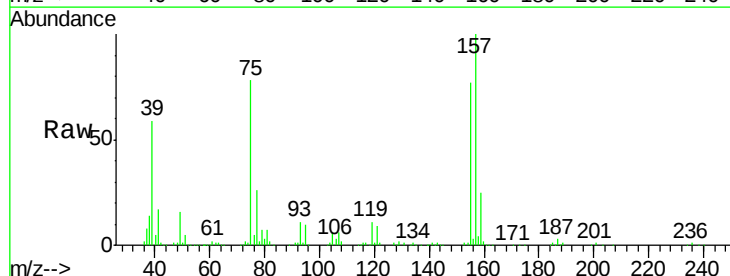
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC100

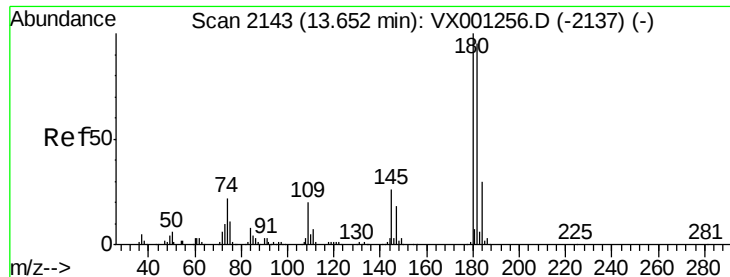
Tot Ion:146 Resp: 682597  
 Ion Ratio Lower Upper  
 146 100  
 111 37.9 20.0 60.0  
 148 64.3 31.6 95.0



#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 70.306 ug/l  
 RT: 13.01 min Scan# 2037  
 Delta R.T. 0.00 min  
 Lab File: VX001258.D  
 Acq: 30 Apr 2018 11:52

Tgt Ion: 75 Resp: 85683  
 Ion Ratio Lower Upper  
 75 100  
 155 98.2 75.1 112.7  
 157 127.2 99.0 148.4

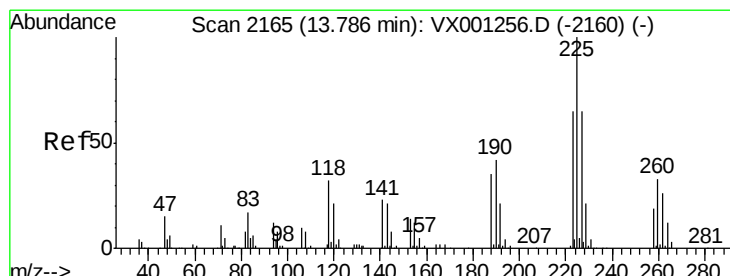
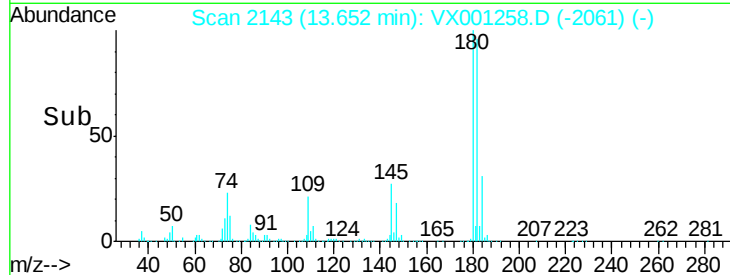
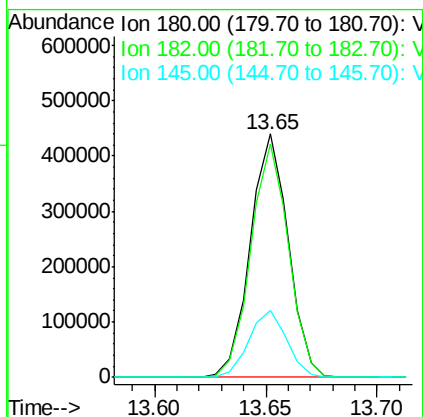
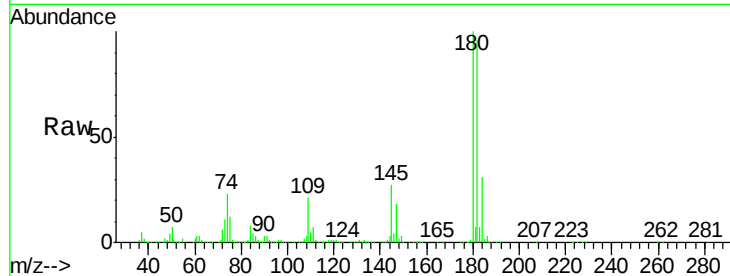




#89  
 1,2,4-Trichlorobenzene  
 Concen: 113.484 ug/l  
 RT: 13.65 min Scan# 2143  
 Delta R.T. 0.00 min  
 Lab File: VX001258.D  
 Acq: 30 Apr 2018 11:52

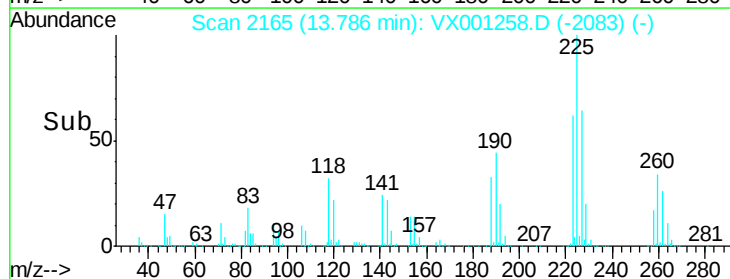
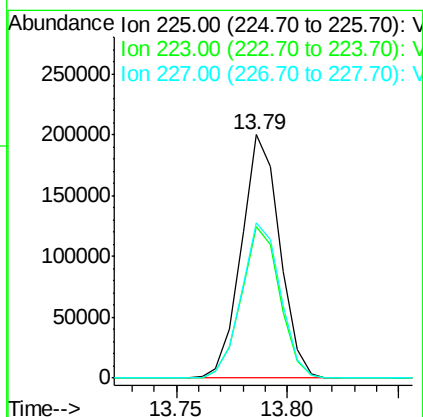
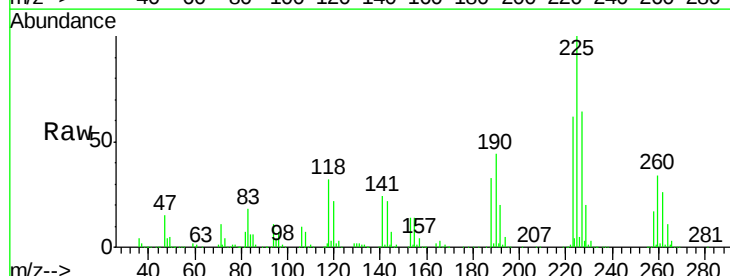
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC100

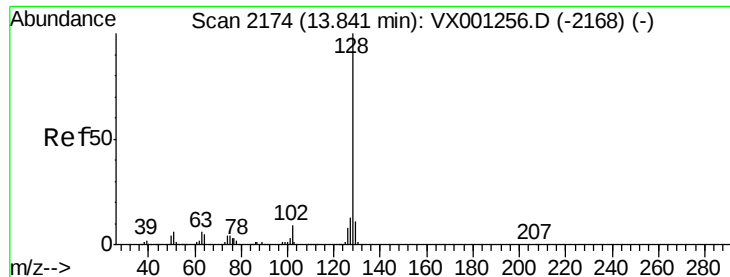
Tot Ion:180 Resp: 522201  
 Ion Ratio Lower Upper  
 180 100  
 182 95.2 76.3 114.5  
 145 27.5 24.6 37.0



#90  
 Hexachlorobutadiene  
 Concen: 121.217 ug/l  
 RT: 13.79 min Scan# 2165  
 Delta R.T. 0.00 min  
 Lab File: VX001258.D  
 Acq: 30 Apr 2018 11:52

Tgt Ion:225 Resp: 240311  
 Ion Ratio Lower Upper  
 225 100  
 223 62.5 0.0 131.2  
 227 64.9 0.0 127.6





#91

Naphthalene

Concen: 85.923 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC100

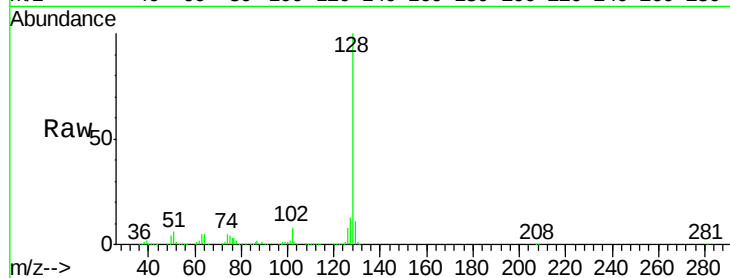
Tot Ion:128 Resp: 1381688

Ion Ratio Lower Upper

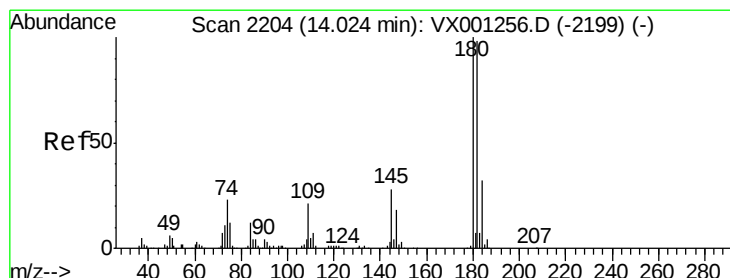
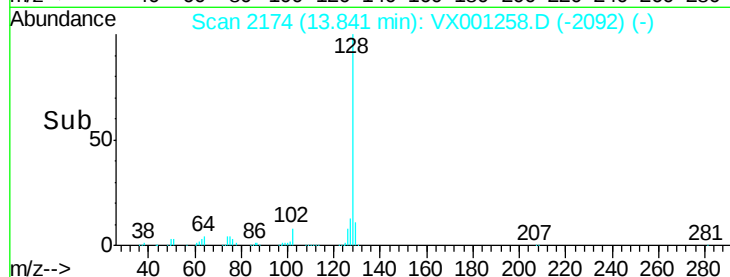
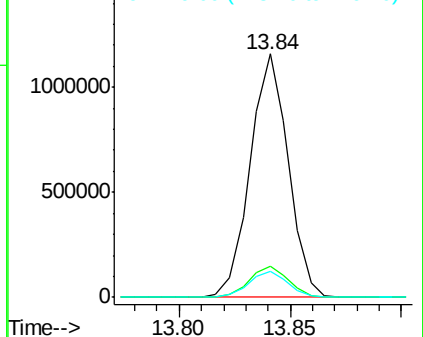
128 100

127 13.0 10.5 15.7

129 10.9 9.0 13.6



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V



#92

1,2,3-Trichlorobenzene

Concen: 110.054 ug/l

RT: 14.02 min Scan# 2204

Delta R.T. 0.00 min

Lab File: VX001258.D

Acq: 30 Apr 2018 11:52

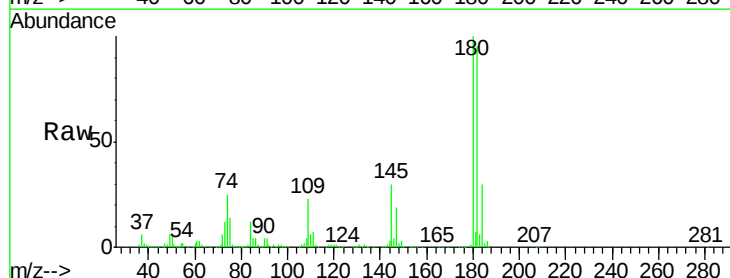
Tgt Ion:180 Resp: 509134

Ion Ratio Lower Upper

180 100

182 96.2 0.0 188.6

145 28.9 0.0 65.8



Abundance Ion 180.00 (179.70 to 180.70): V  
Ion 182.00 (181.70 to 182.70): V  
Ion 145.00 (144.70 to 145.70): V

