

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121819\  
 Data File : VX014086.D  
 Acq On : 18 Dec 2019 11:02  
 Operator : JC/SP  
 Sample : VX1218WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1218WBS01

Quant Time: Dec 18 16:16:25 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 17 03:01:07 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 619178   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 934844   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 835855   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 421325   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 353744   | 50.41 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.82% |          |
| 35) Dibromofluoromethane    | 5.48  | 113  | 289791   | 50.99 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.98% |          |
| 50) Toluene-d8              | 8.71  | 98   | 1129853  | 51.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.14% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 403656   | 49.91 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.82%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85   | 110563   | 19.960  | ug/l  | 98     |
| 3) Chloromethane              | 1.32 | 50   | 150685   | 20.270  | ug/l  | 98     |
| 4) Vinyl Chloride             | 1.40 | 62   | 160562   | 20.469  | ug/l  | 98     |
| 5) Bromomethane               | 1.63 | 94   | 100020   | 17.965  | ug/l  | 99     |
| 6) Chloroethane               | 1.72 | 64   | 100350   | 20.728  | ug/l  | 94     |
| 7) Trichlorofluoromethane     | 1.92 | 101  | 200152   | 20.612  | ug/l  | 99     |
| 8) Diethyl Ether              | 2.18 | 74   | 89969    | 19.742  | ug/l  | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101  | 121330   | 20.728  | ug/l  | 99     |
| 10) Methyl Iodide             | 2.50 | 142  | 148056   | 20.796  | ug/l  | 98     |
| 11) Tert butyl alcohol        | 3.03 | 59   | 149474   | 98.576  | ug/l  | 99     |
| 12) 1,1-Dichloroethene        | 2.36 | 96   | 119374   | 20.042  | ug/l  | 95     |
| 13) Acrolein                  | 2.28 | 56   | 106068   | 122.199 | ug/l  | 97     |
| 14) Allyl chloride            | 2.72 | 41   | 217687   | 20.470  | ug/l  | 100    |
| 15) Acrylonitrile             | 3.13 | 53   | 368134   | 104.016 | ug/l  | 99     |
| 16) Acetone                   | 2.43 | 43   | 394350   | 86.559  | ug/l  | 99     |
| 17) Carbon Disulfide          | 2.56 | 76   | 325677   | 20.151  | ug/l  | 97     |
| 18) Methyl Acetate            | 2.76 | 43   | 185072   | 20.501  | ug/l  | 98     |
| 19) Methyl tert-butyl Ether   | 3.18 | 73   | 402324   | 20.556  | ug/l  | 99     |
| 20) Methylene Chloride        | 2.84 | 84   | 140809   | 19.627  | ug/l  | 97     |
| 21) trans-1,2-Dichloroethene  | 3.15 | 96   | 131713   | 20.073  | ug/l  | 97     |
| 22) Diisopropyl ether         | 3.84 | 45   | 449968   | 21.233  | ug/l  | 90     |
| 23) Vinyl Acetate             | 3.80 | 43   | 1888693  | 109.213 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 3.69 | 63   | 238617   | 20.239  | ug/l  | 100    |
| 25) 2-Butanone                | 4.65 | 43   | 549016   | 97.744  | ug/l  | 99     |
| 26) 2,2-Dichloropropane       | 4.58 | 77   | 186899   | 20.417  | ug/l  | 100    |
| 27) cis-1,2-Dichloroethene    | 4.58 | 96   | 149946   | 20.206  | ug/l  | 99     |
| 28) Bromochloromethane        | 5.00 | 49   | 92587    | 20.687  | ug/l  | 99     |
| 29) Tetrahydrofuran           | 5.11 | 42   | 333147   | 106.042 | ug/l  | 98     |
| 30) Chloroform                | 5.20 | 83   | 229972   | 20.576  | ug/l  | 97     |
| 31) Cyclohexane               | 5.57 | 56   | 220981   | 21.073  | ug/l  | 99     |
| 32) 1,1,1-Trichloroethane     | 5.48 | 97   | 191023   | 20.053  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 5.79 | 75   | 175760   | 20.490  | ug/l  | 99     |
| 37) Ethyl Acetate             | 4.81 | 43   | 201314   | 21.253  | ug/l  | 100    |
| 38) Carbon Tetrachloride      | 5.77 | 117  | 163380   | 20.908  | ug/l  | 96     |

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 Sample : VX1218WBS01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1218WBS01

Quant Time: Dec 18 16:16:25 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 17 03:01:07 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.45  | 83   | 223177   | 21.072  | ug/l   | 97       |
| 40) Benzene                    | 6.13  | 78   | 538891   | 20.418  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.02  | 41   | 112634   | 21.431  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 6.18  | 62   | 189350   | 21.165  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.43  | 43   | 322642   | 20.582  | ug/l   | 99       |
| 44) Trichloroethene            | 7.20  | 130  | 148176   | 20.326  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 140333   | 20.745  | ug/l   | 100      |
| 46) Dibromomethane             | 7.65  | 93   | 89829    | 20.085  | ug/l   | 98       |
| 47) Bromodichloromethane       | 7.89  | 83   | 172601   | 20.491  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.76  | 41   | 159154   | 20.734  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.73  | 88   | 63908    | 409.112 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 1028924  | 104.514 | ug/l   | 98       |
| 52) Toluene                    | 8.78  | 92   | 338634   | 20.299  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 9.03  | 75   | 191001   | 20.680  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 219663   | 21.348  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 137596   | 20.580  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 9.17  | 69   | 216360   | 20.601  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 236040   | 20.983  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 406473   | 102.269 | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.48  | 43   | 785453   | 99.109  | ug/l   | 100      |
| 60) Dibromochloromethane       | 9.57  | 129  | 138728   | 20.874  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 142228   | 20.791  | ug/l   | 98       |
| 64) Tetrachloroethene          | 9.33  | 164  | 145648   | 19.692  | ug/l   | 96       |
| 65) Chlorobenzene              | 10.14 | 112  | 362754   | 20.411  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 131977   | 20.798  | ug/l   | 100      |
| 67) Ethyl Benzene              | 10.24 | 91   | 641197   | 20.985  | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.35 | 106  | 488755   | 41.590  | ug/l   | 99       |
| 69) o-Xylene                   | 10.70 | 106  | 236335   | 20.505  | ug/l   | 99       |
| 70) Styrene                    | 10.71 | 104  | 405148   | 20.788  | ug/l   | 98       |
| 71) Bromoform                  | 10.85 | 173  | 100991   | 19.799  | ug/l # | 100      |
| 73) Isopropylbenzene           | 11.01 | 105  | 629441   | 21.219  | ug/l   | 100      |
| 74) N-amyl acetate             | 10.89 | 43   | 280020   | 20.138  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 211166   | 20.533  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 237023   | 25.913  | ug/l   | 88       |
| 77) Bromobenzene               | 11.25 | 156  | 163758   | 20.064  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.35 | 91   | 719707   | 21.630  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 423853   | 20.955  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 526185   | 21.076  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 66339    | 20.471  | ug/l   | 93       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 484558   | 20.653  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 510300   | 21.004  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 525381   | 21.014  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 610084   | 21.271  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 557144   | 21.236  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 285633   | 19.968  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 286874   | 19.724  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.38 | 91   | 476125   | 21.268  | ug/l   | 100      |
| 90) Hexachloroethane           | 12.59 | 117  | 95585    | 20.283  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 288075   | 20.006  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 43307    | 19.029  | ug/l   | 99       |

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Operator : JC/SP  
Sample : VX1218WBS01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 4 Sample Multiplier: 1

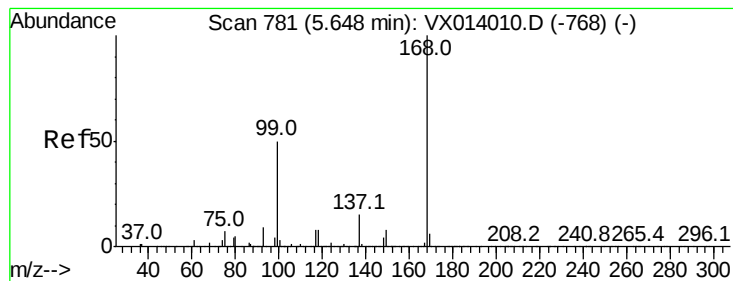
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1218WBS01

Quant Time: Dec 18 16:16:25 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 17 03:01:07 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.64 | 180  | 183493   | 19.606 | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 13.78 | 225  | 92239    | 20.507 | ug/l  | 98       |
| 95) Naphthalene            | 13.83 | 128  | 560340   | 20.378 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 191434   | 20.720 | ug/l  | 98       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

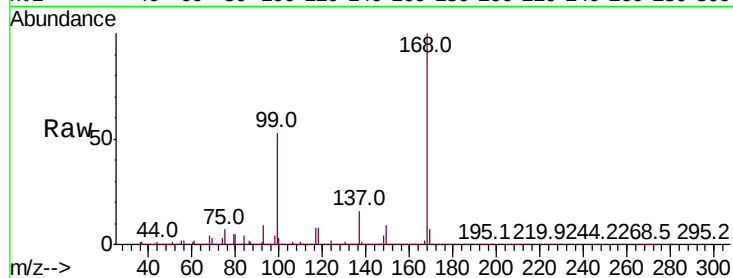
VX1218WBS01

Tot Ion:168 Resp: 619178

Ion Ratio Lower Upper

168 100

99 52.7 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

150000

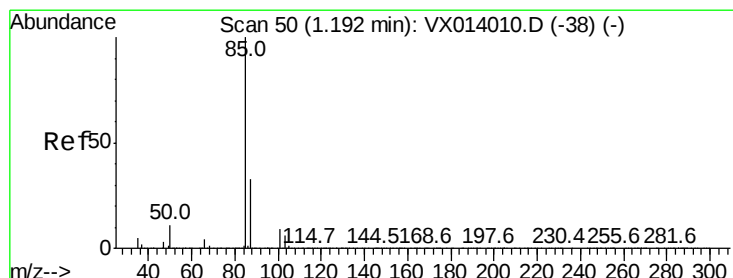
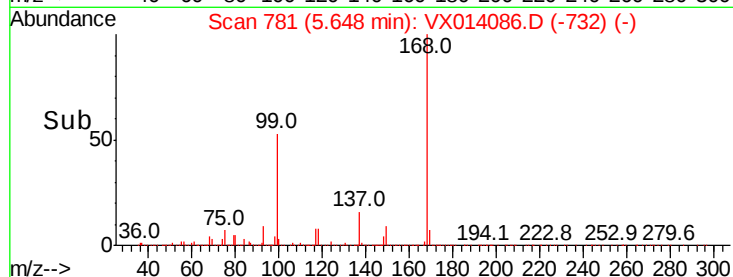
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50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 19.960 ug/l

RT: 1.19 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX014086.D

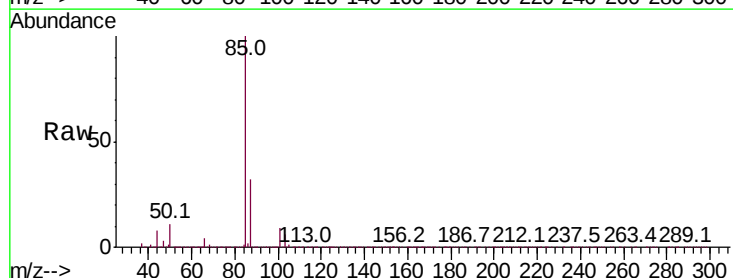
Acq: 18 Dec 2019 11:02

Tgt Ion: 85 Resp: 110563

Ion Ratio Lower Upper

85 100

87 31.6 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

120000

100000

80000

60000

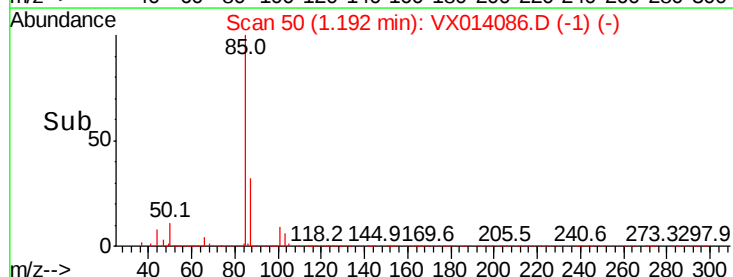
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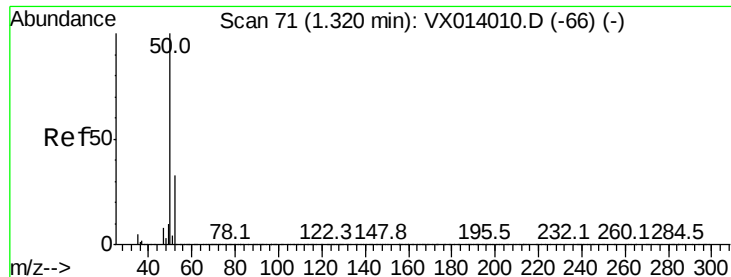
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Time-->

1.10 1.15 1.20 1.25 1.30





#3

Chloromethane

Concen: 20.270 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

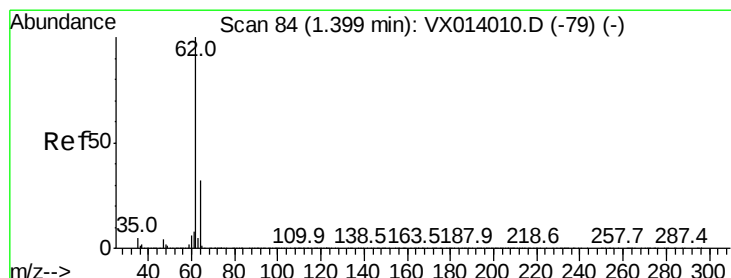
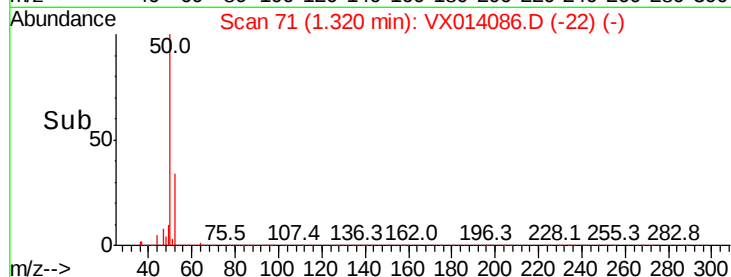
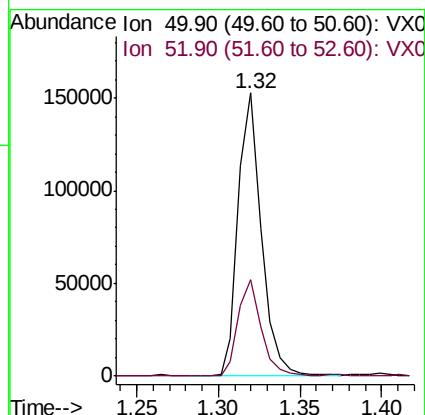
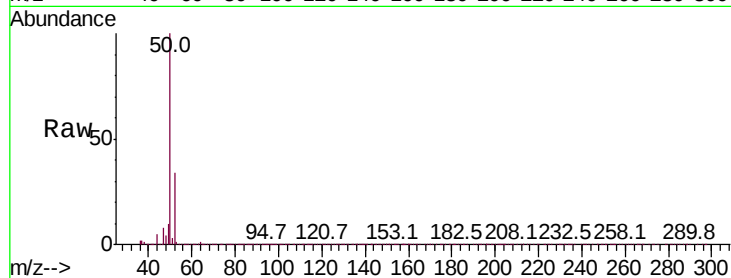
VX1218WBS01

Tot Ion: 50 Resp: 150685

Ion Ratio Lower Upper

50 100

52 33.7 26.2 39.4



#4

Vinyl Chloride

Concen: 20.469 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX014086.D

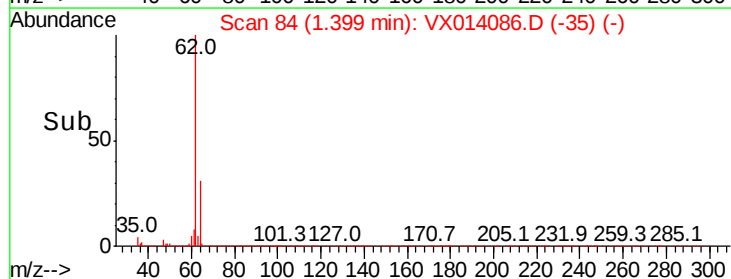
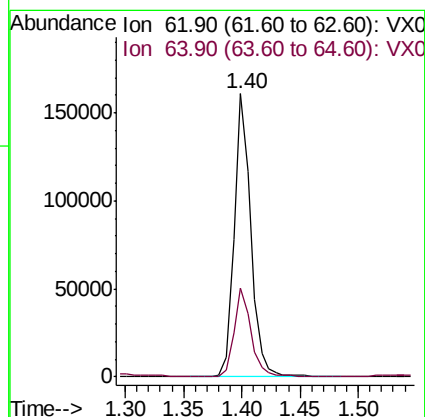
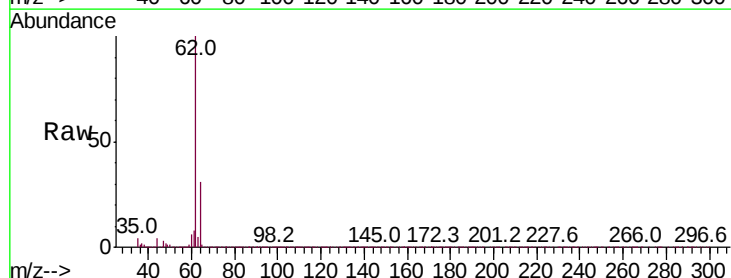
Acq: 18 Dec 2019 11:02

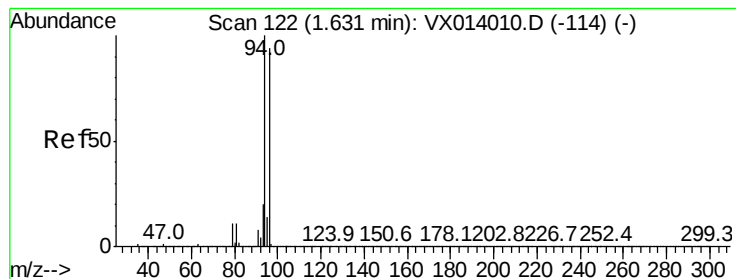
Tgt Ion: 62 Resp: 160562

Ion Ratio Lower Upper

62 100

64 31.1 25.7 38.5





#5

Bromomethane

Concen: 17.965 ug/l

RT: 1.63 min Scan# 122

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampled :

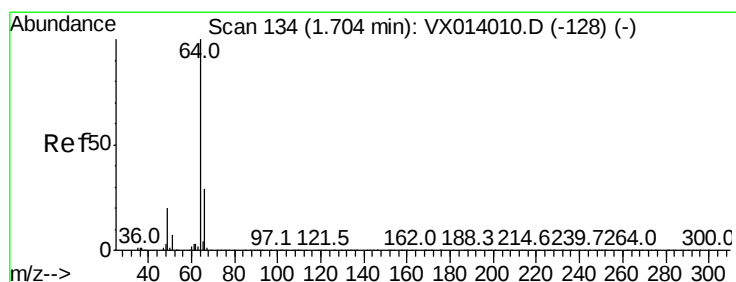
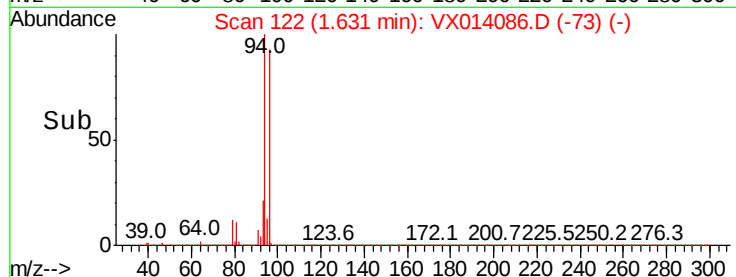
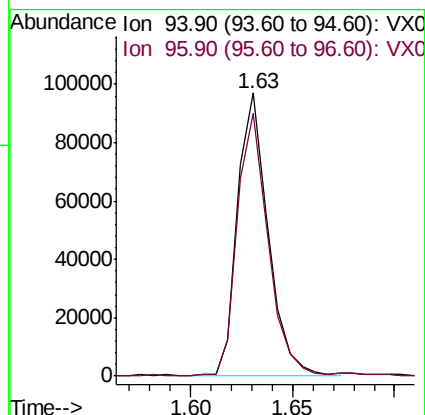
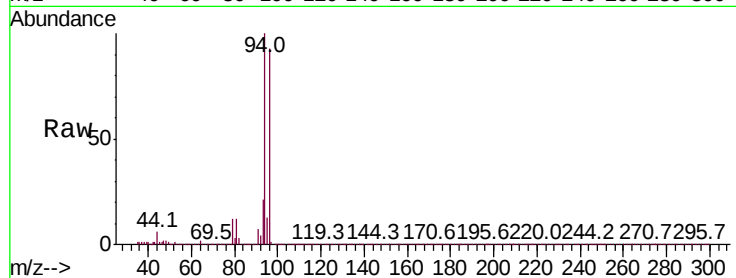
VX1218WBS01

Tot Ion: 94 Resp: 100020

Ion Ratio Lower Upper

94 100

96 92.8 75.2 112.8



#6

Chloroethane

Concen: 20.728 ug/l

RT: 1.72 min Scan# 136

Delta R.T. 0.01 min

Lab File: VX014086.D

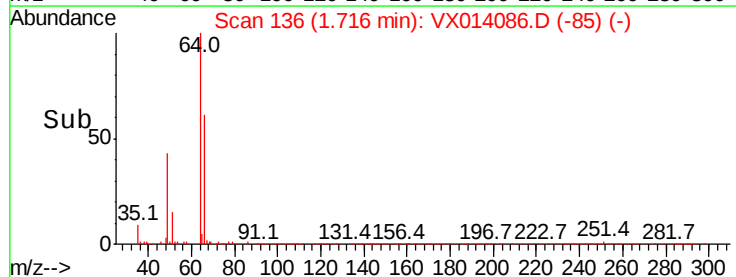
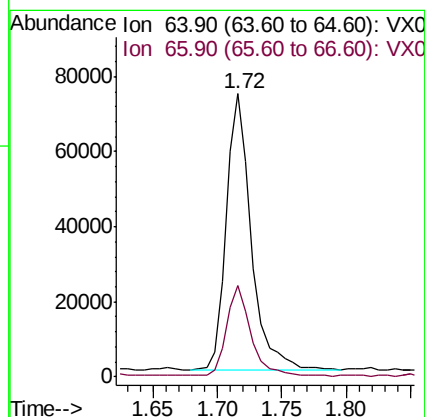
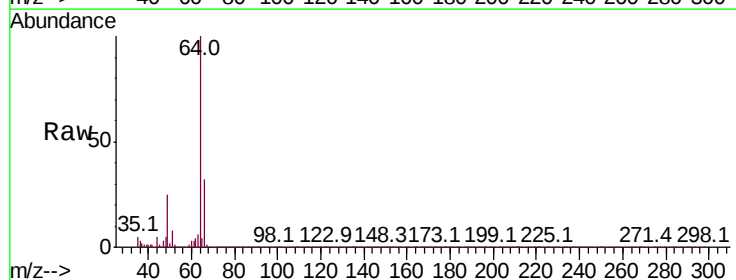
Acq: 18 Dec 2019 11:02

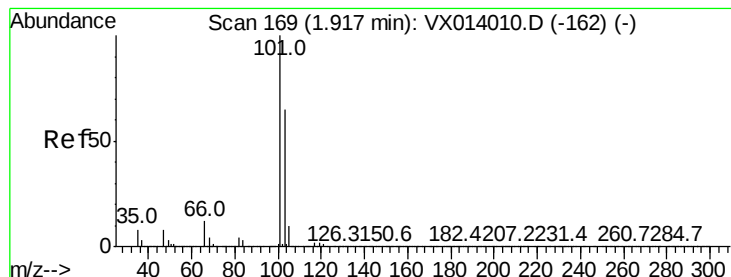
Tgt Ion: 64 Resp: 100350

Ion Ratio Lower Upper

64 100

66 32.5 23.4 35.2



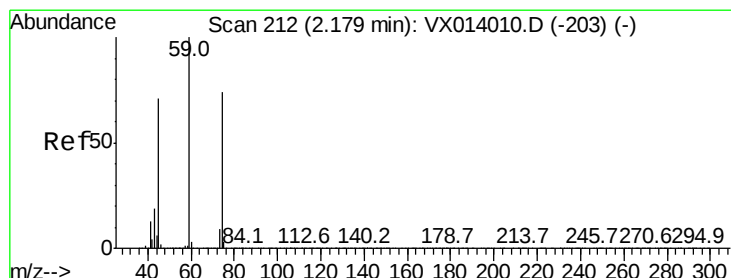
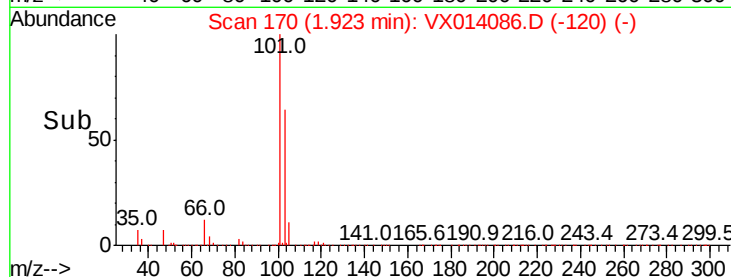
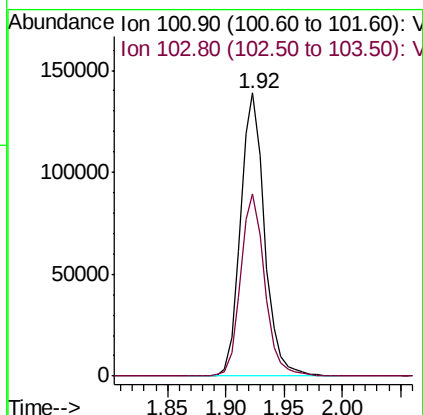
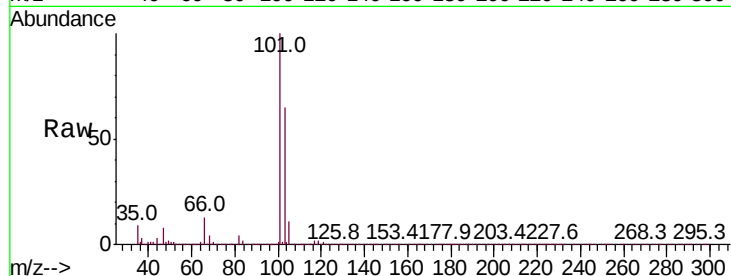


#7

Trichlorofluoromethane  
Concen: 20.612 ug/l  
RT: 1.92 min Scan# 170  
Delta R.T. 0.01 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1218WBS01

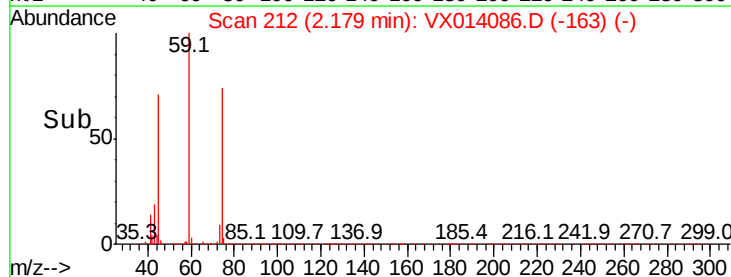
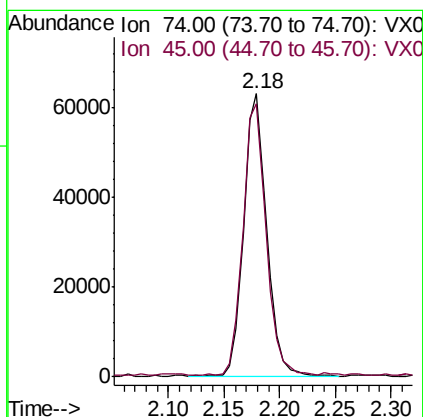
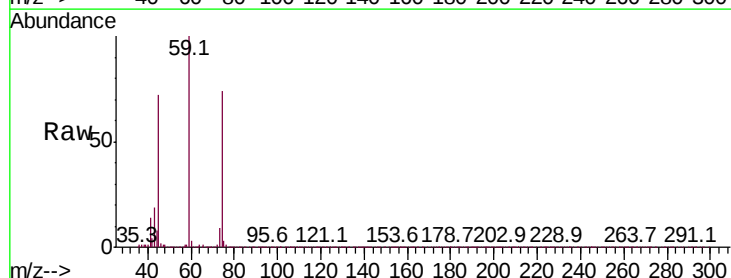
Tot Ion:101 Resp: 200152  
Ion Ratio Lower Upper  
101 100  
103 64.4 52.2 78.4

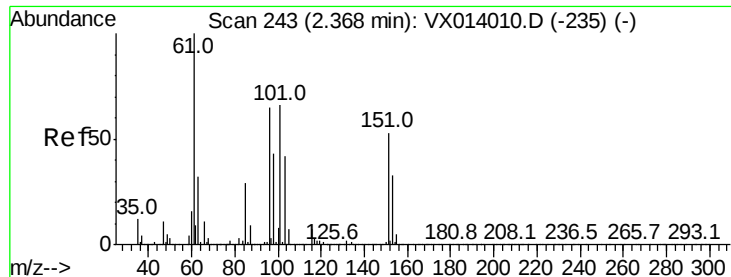


#8

Diethyl Ether  
Concen: 19.742 ug/l  
RT: 2.18 min Scan# 212  
Delta R.T. -0.00 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

Tgt Ion: 74 Resp: 89969  
Ion Ratio Lower Upper  
74 100  
45 96.9 48.1 144.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.728 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

VX1218WBS01

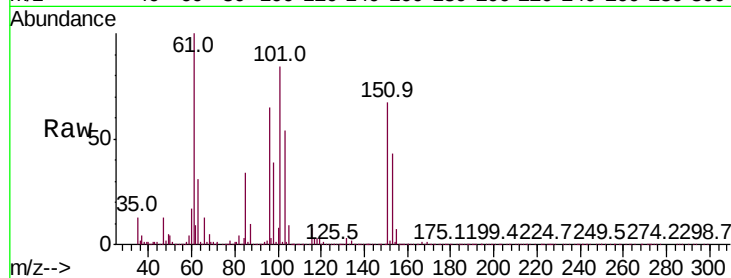
Tot Ion:101 Resp: 121330

Ion Ratio Lower Upper

101 100

85 42.6 33.7 50.5

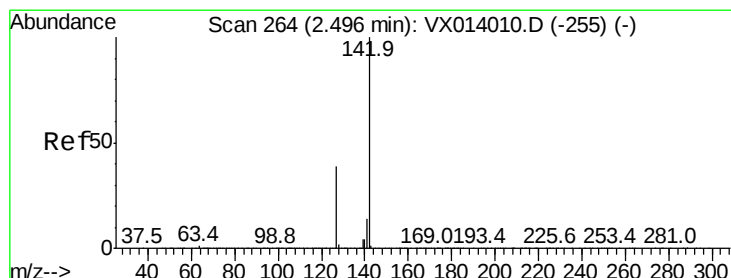
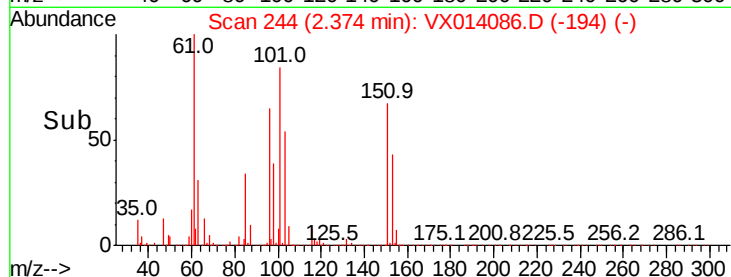
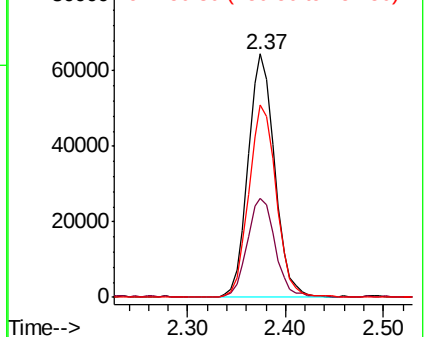
151 82.0 64.5 96.7



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 20.796 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

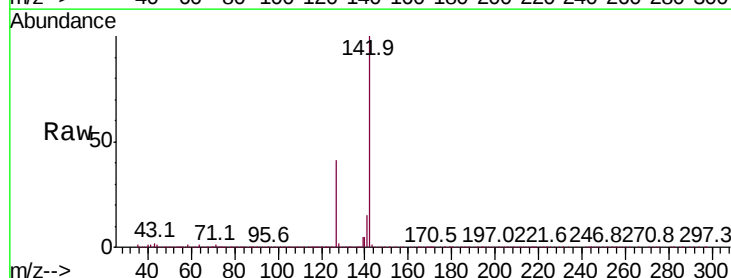
Tgt Ion:142 Resp: 148056

Ion Ratio Lower Upper

142 100

127 37.9 31.6 47.4

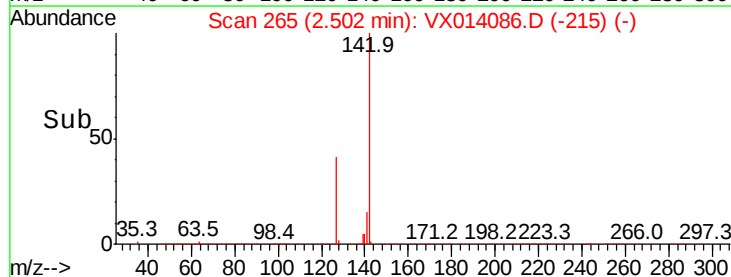
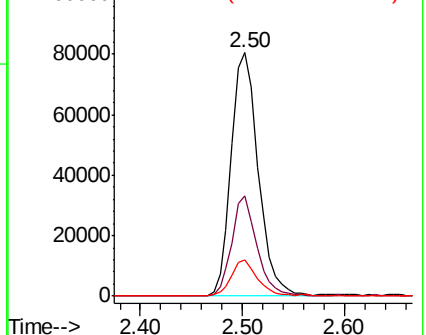
141 14.4 11.6 17.4

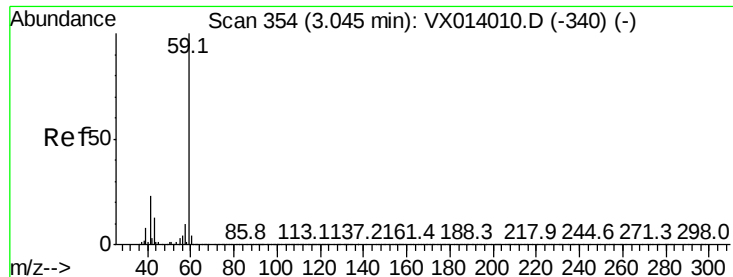


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



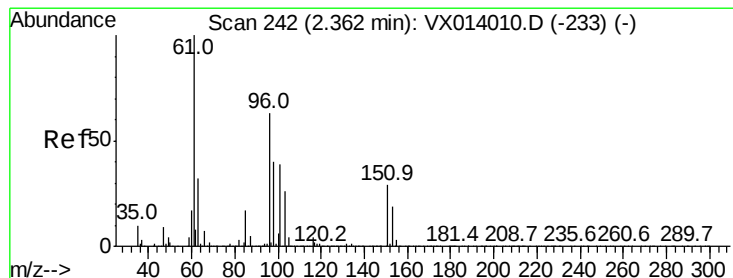
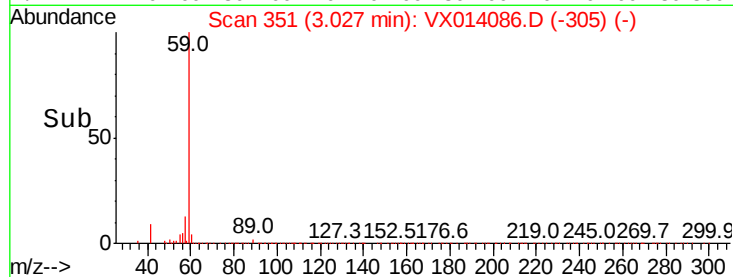
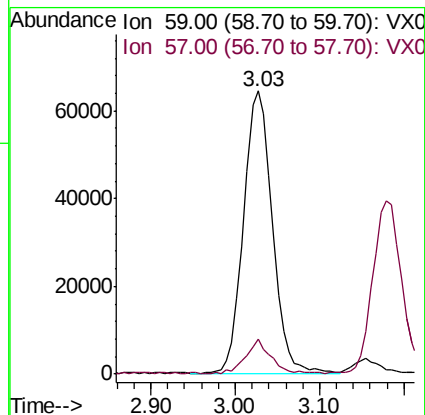
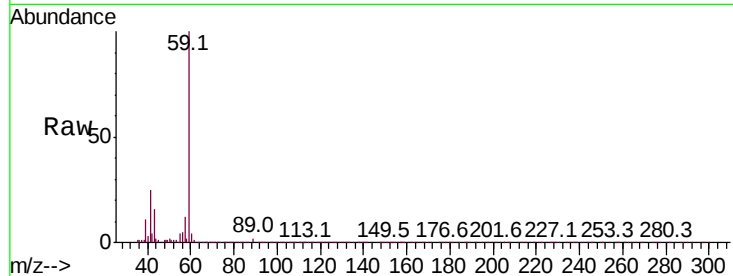


#11

Tert butyl alcohol  
 Concen: 98.576 ug/l  
 RT: 3.03 min Scan# 351  
 Delta R.T. -0.02 min  
 Lab File: VX014086.D  
 Acq: 18 Dec 2019 11:02

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1218WBS01

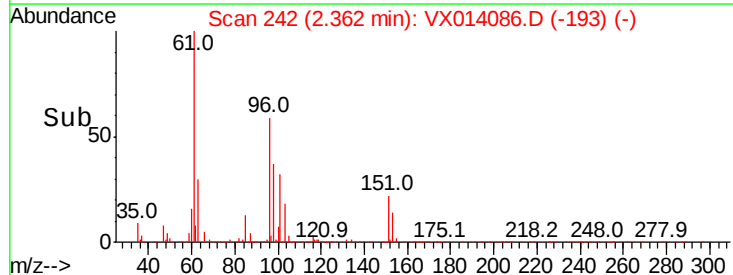
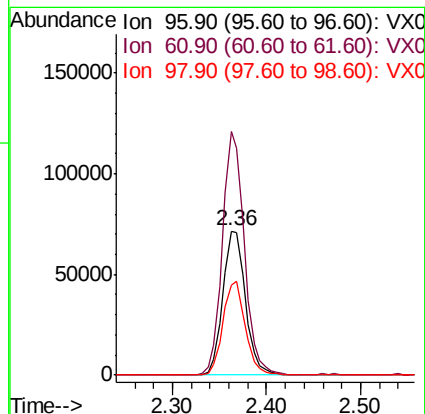
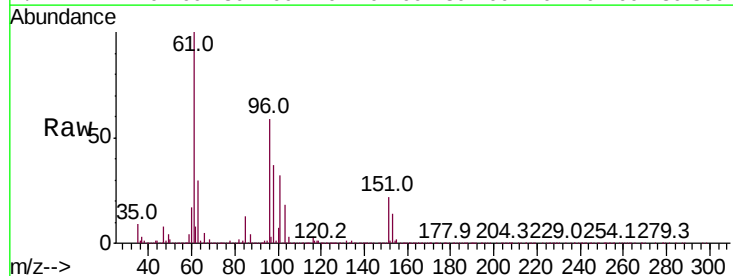
Tot Ion: 59 Resp: 149474  
 Ion Ratio Lower Upper  
 59 100  
 57 10.3 8.4 12.6

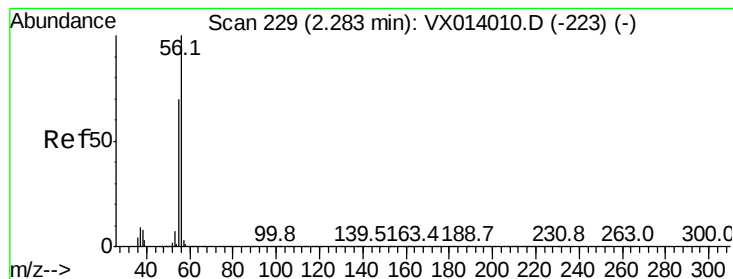


#12

1,1-Dichloroethene  
 Concen: 20.042 ug/l  
 RT: 2.36 min Scan# 242  
 Delta R.T. -0.00 min  
 Lab File: VX014086.D  
 Acq: 18 Dec 2019 11:02

Tgt Ion: 96 Resp: 119374  
 Ion Ratio Lower Upper  
 96 100  
 61 169.0 127.9 191.9  
 98 62.7 50.5 75.7





#13

Acrolein

Concen: 122.199 ug/l

RT: 2.28 min Scan# 229

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

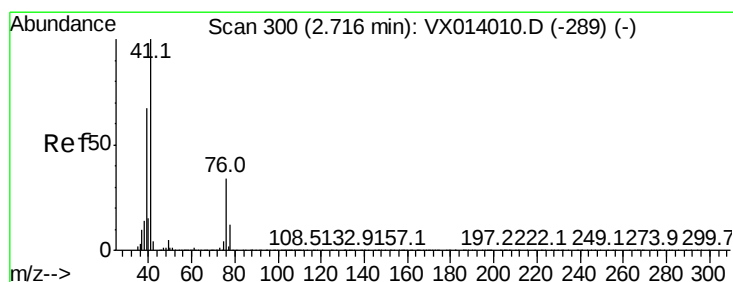
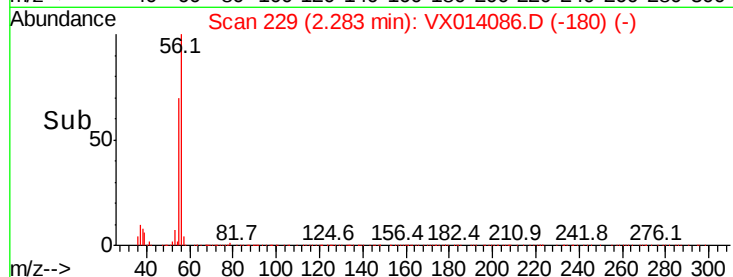
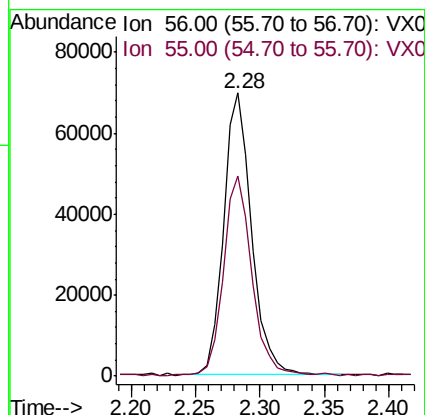
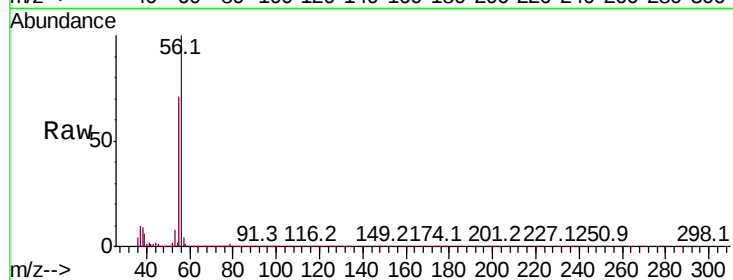
VX1218WBS01

Tot Ion: 56 Resp: 106068

Ion Ratio Lower Upper

56 100

55 73.4 56.9 85.3



#14

Allyl chloride

Concen: 20.470 ug/l

RT: 2.72 min Scan# 300

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

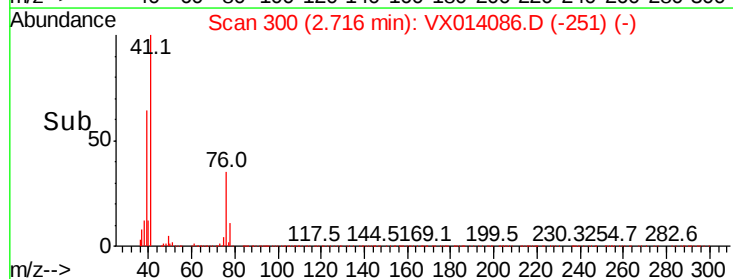
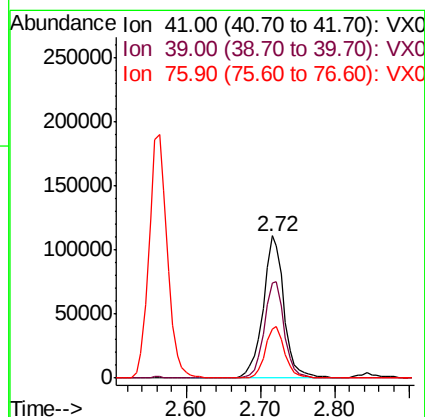
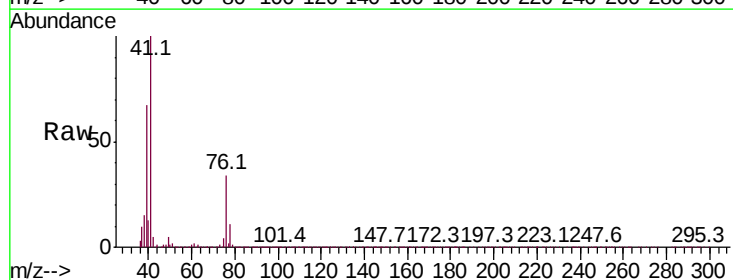
Tgt Ion: 41 Resp: 217687

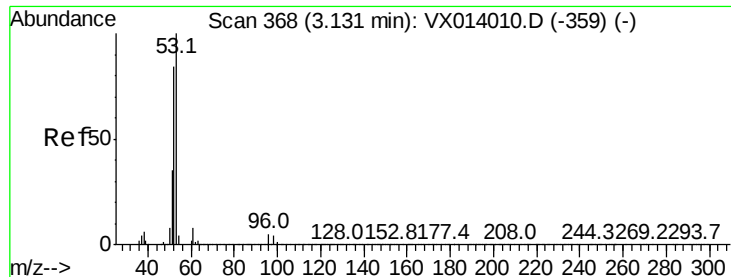
Ion Ratio Lower Upper

41 100

39 64.5 51.8 77.8

76 32.7 25.9 38.9





#15

Acrylonitrile

Concen: 104.016 ug/l

RT: 3.13 min Scan# 368

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

VX1218WBS01

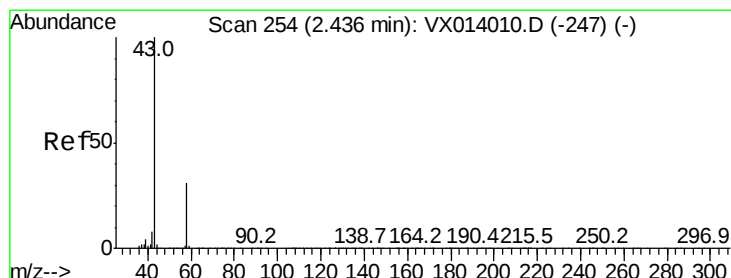
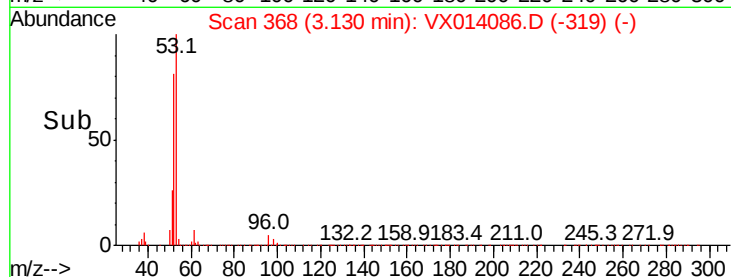
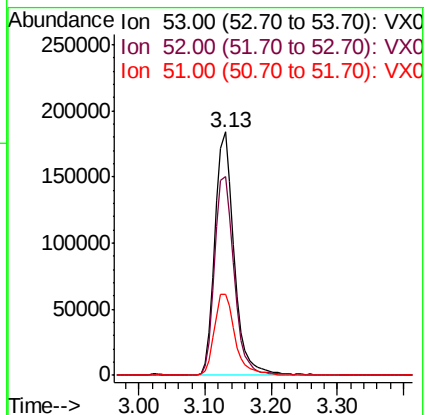
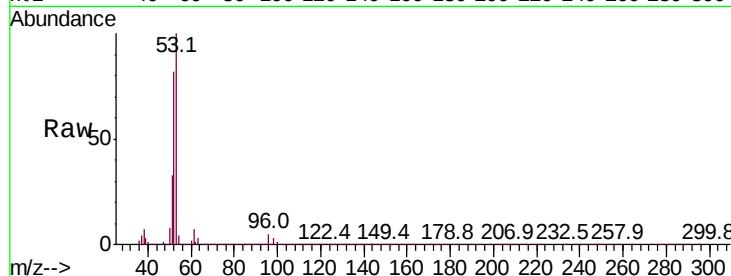
Tot Ion: 53 Resp: 368134

Ion Ratio Lower Upper

53 100

52 82.7 66.5 99.7

51 36.6 28.1 42.1



#16

Acetone

Concen: 86.559 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014086.D

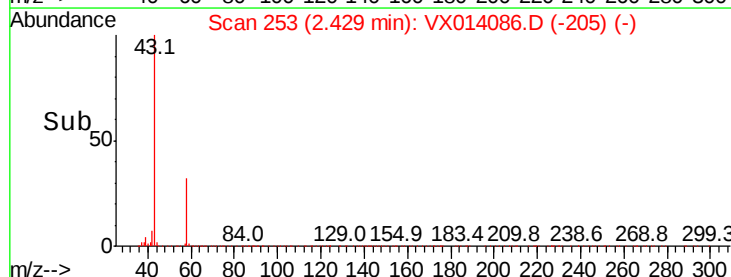
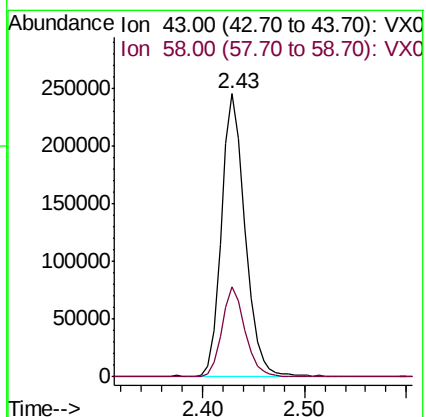
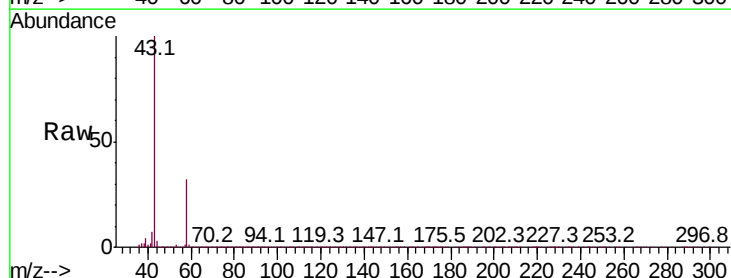
Acq: 18 Dec 2019 11:02

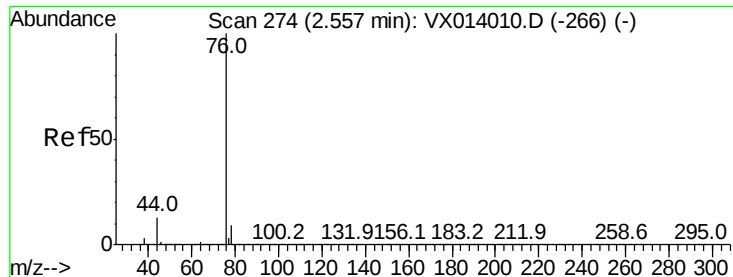
Tgt Ion: 43 Resp: 394350

Ion Ratio Lower Upper

43 100

58 31.7 24.9 37.3





#17

Carbon Disulfide

Concen: 20.151 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

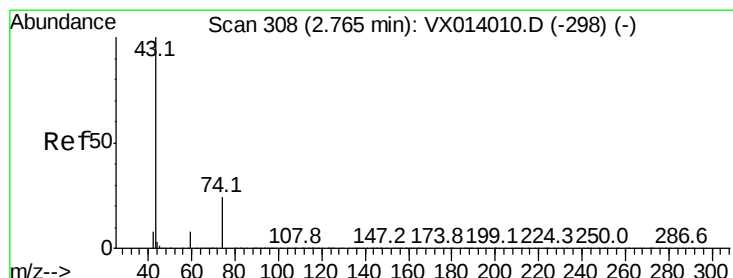
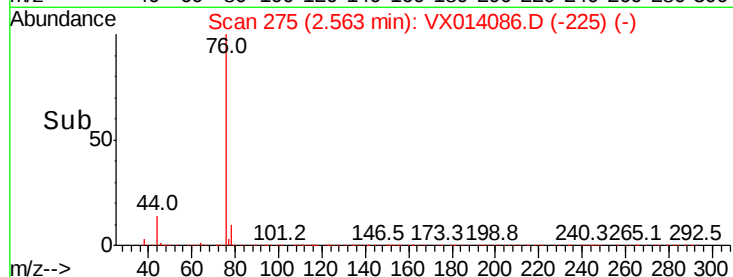
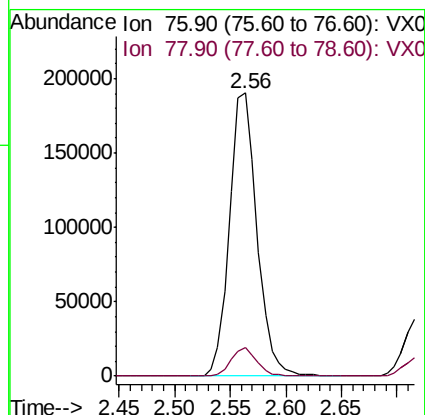
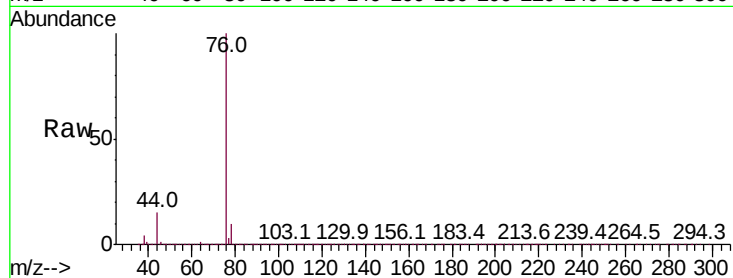
VX1218WBS01

Tot Ion: 76 Resp: 325677

Ion Ratio Lower Upper

76 100

78 10.0 7.2 10.8



#18

Methyl Acetate

Concen: 20.501 ug/l

RT: 2.76 min Scan# 307

Delta R.T. -0.01 min

Lab File: VX014086.D

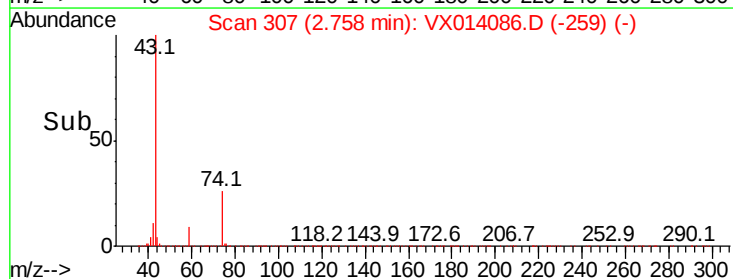
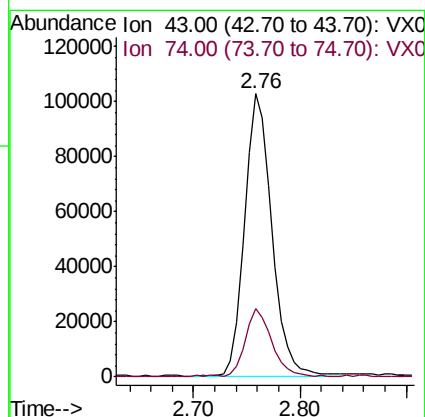
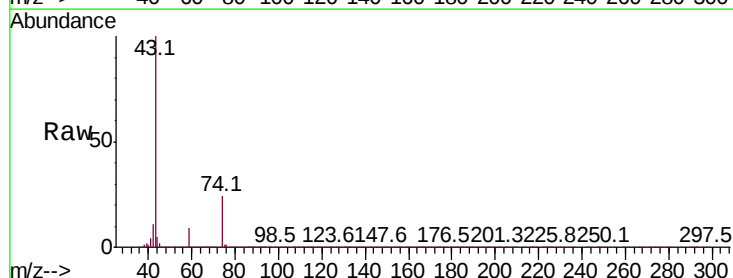
Acq: 18 Dec 2019 11:02

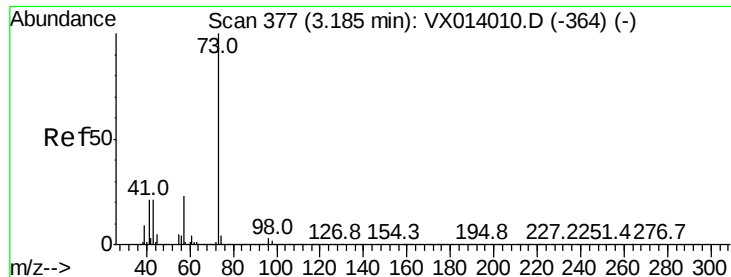
Tgt Ion: 43 Resp: 185072

Ion Ratio Lower Upper

43 100

74 23.5 19.5 29.3

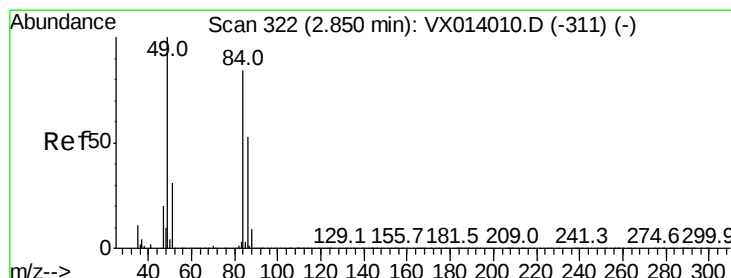
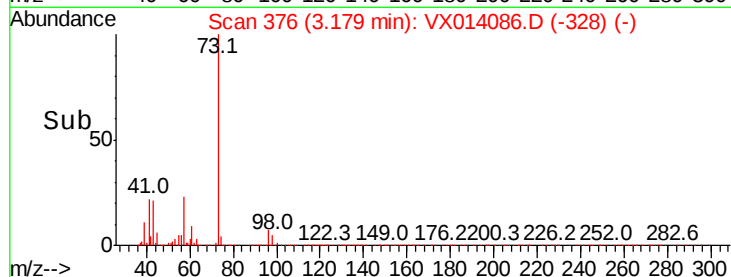
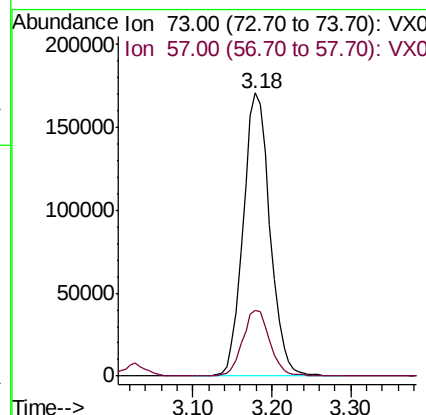
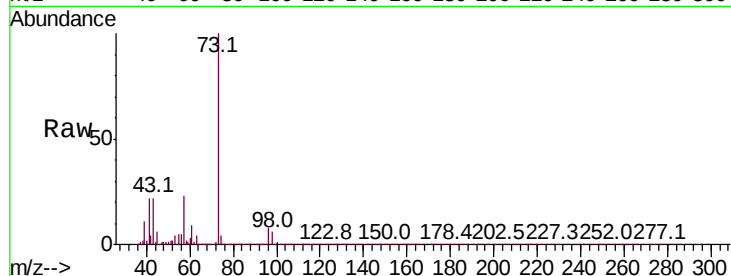




#19  
Methyl tert-butyl Ether  
Concen: 20.556 ug/l  
RT: 3.18 min Scan# 376  
Delta R.T. -0.01 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

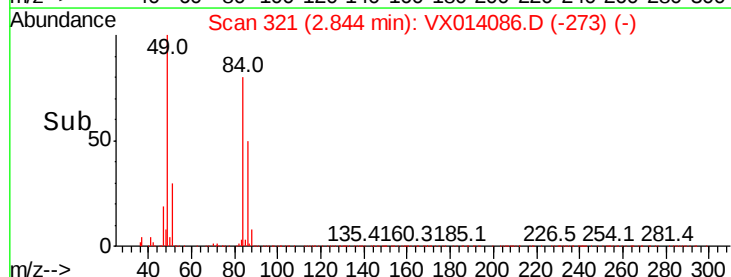
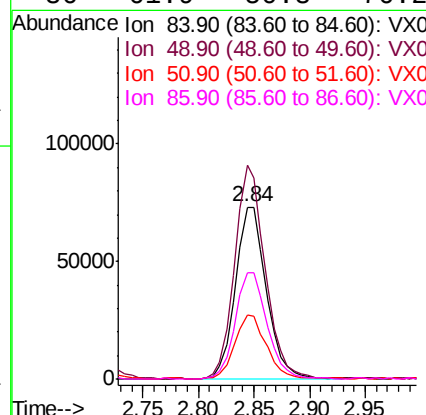
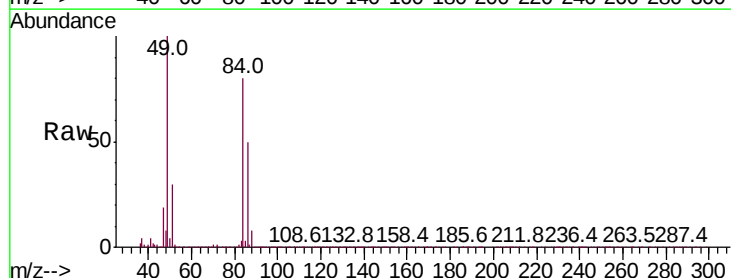
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1218WBS01

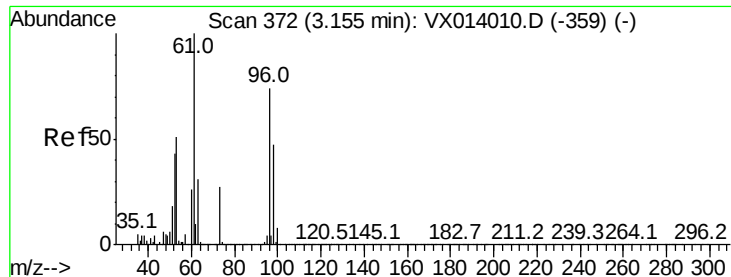
Tot Ion: 73 Resp: 402324  
Ion Ratio Lower Upper  
73 100  
57 23.0 18.8 28.2



#20  
Methylene Chloride  
Concen: 19.627 ug/l  
RT: 2.84 min Scan# 321  
Delta R.T. -0.01 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

Tgt Ion: 84 Resp: 140809  
Ion Ratio Lower Upper  
84 100  
49 124.2 95.8 143.6  
51 37.1 29.8 44.8  
86 61.9 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 20.073 ug/l

RT: 3.15 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

VX1218WBS01

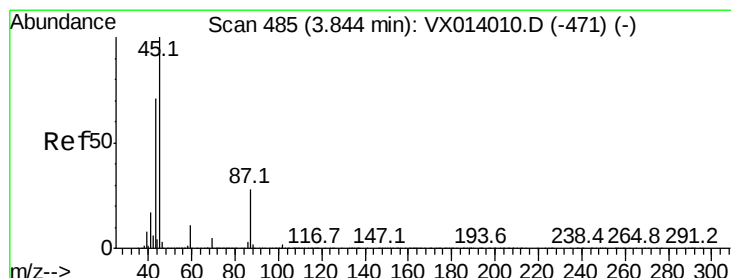
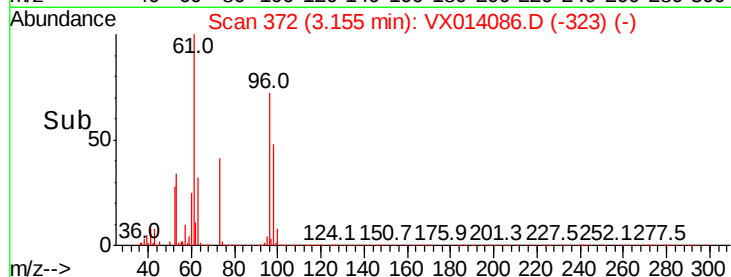
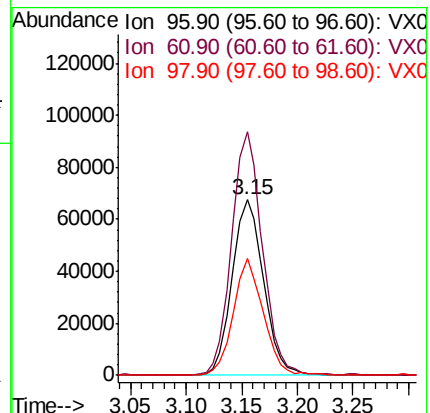
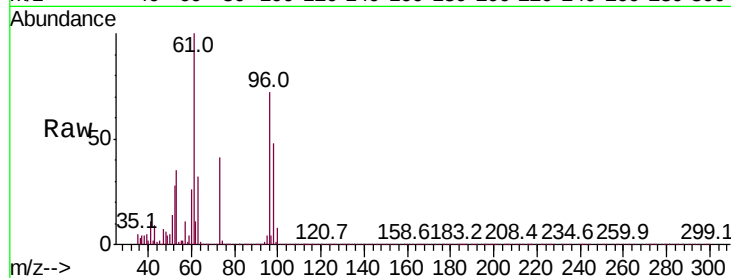
Tot Ion: 96 Resp: 131713

Ion Ratio Lower Upper

96 100

61 138.9 108.3 162.5

98 66.9 50.8 76.2



#22

Diisopropyl ether

Concen: 21.233 ug/l

RT: 3.84 min Scan# 484

Delta R.T. -0.01 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Tgt Ion: 45 Resp: 449968

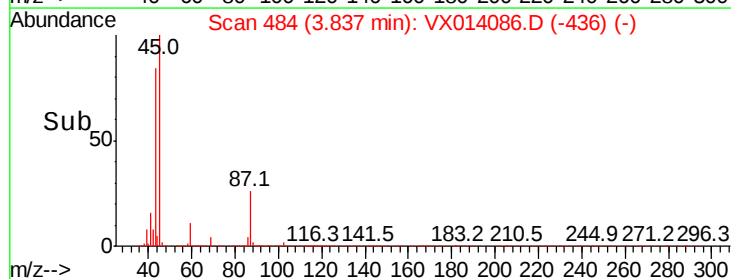
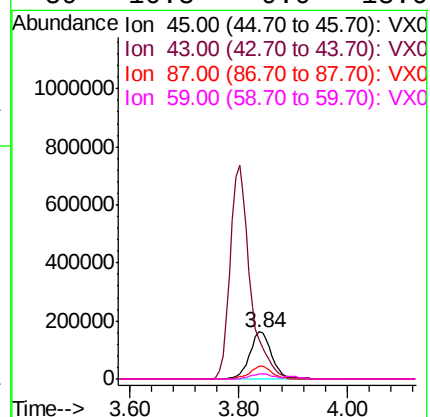
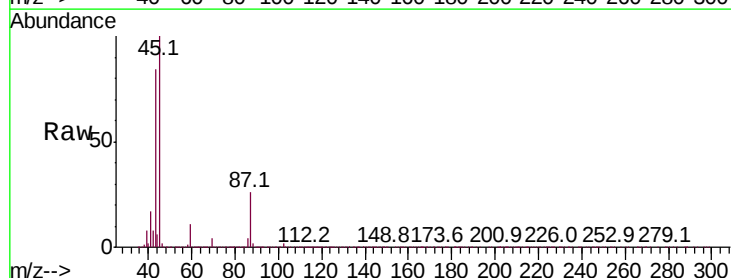
Ion Ratio Lower Upper

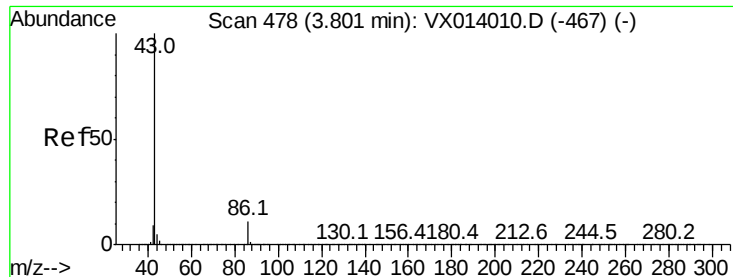
45 100

43 83.7 57.4 86.0

87 25.9 21.9 32.9

59 10.8 9.0 13.6





#23

Vinyl Acetate

Concen: 109.213 ug/l

RT: 3.80 min Scan# 478

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

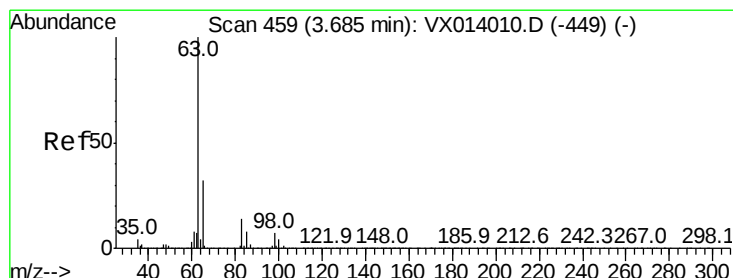
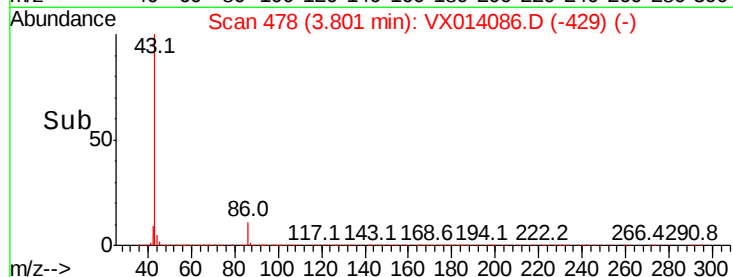
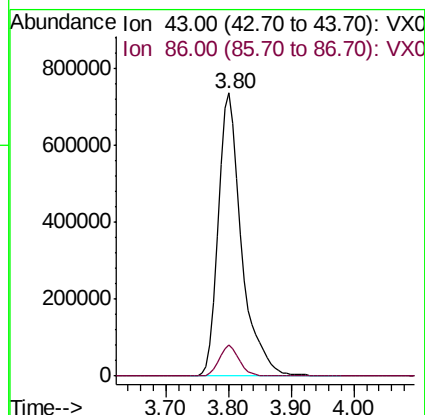
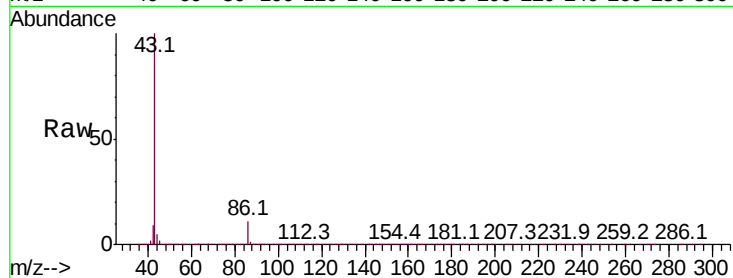
VX1218WBS01

Tot Ion: 43 Resp: 1888693

Ion Ratio Lower Upper

43 100

86 10.9 8.6 12.8



#24

1,1-Dichloroethane

Concen: 20.239 ug/l

RT: 3.69 min Scan# 459

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

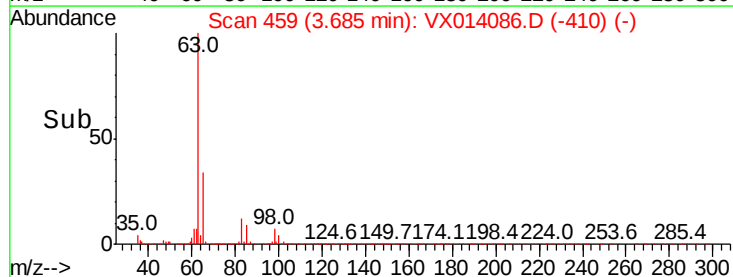
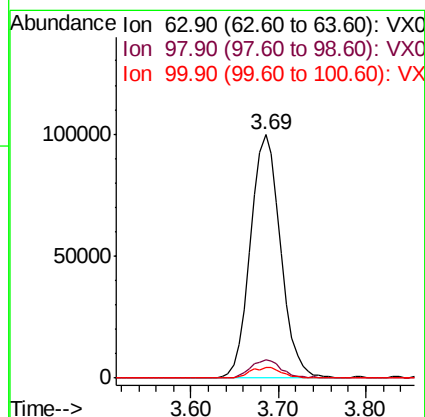
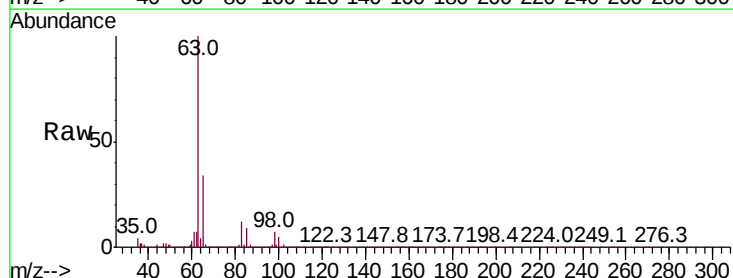
Tgt Ion: 63 Resp: 238617

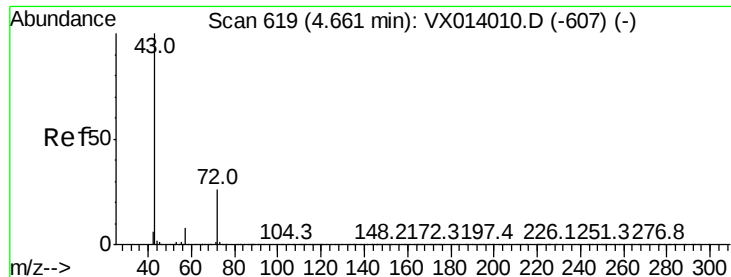
Ion Ratio Lower Upper

63 100

98 7.3 3.6 10.8

100 4.4 2.3 6.8





#25

2-Butanone

Concen: 97.744 ug/l

RT: 4.65 min Scan# 618

Delta R.T. -0.01 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

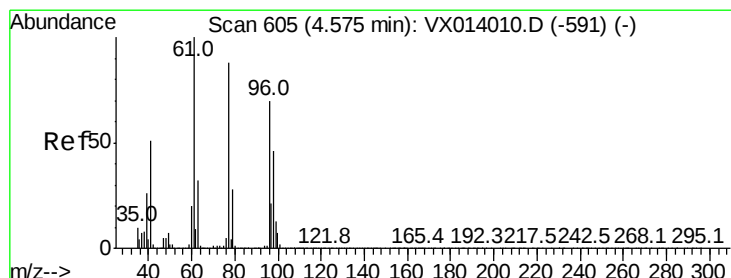
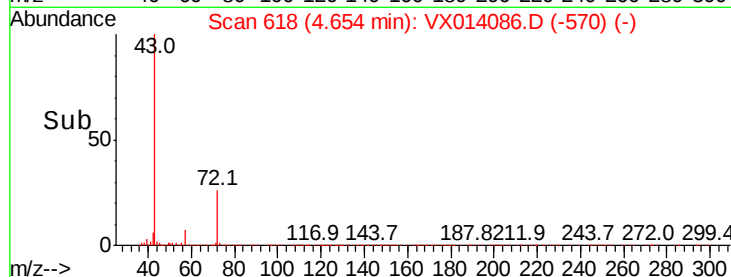
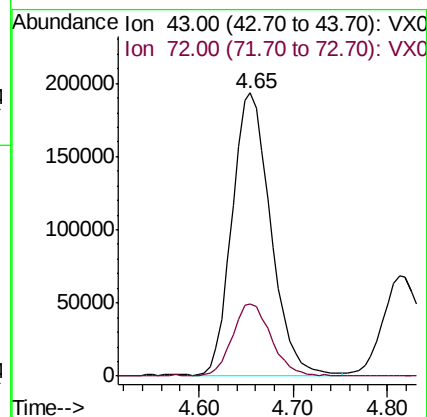
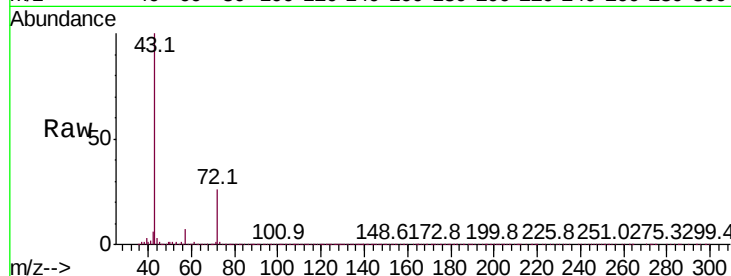
VX1218WBS01

Tot Ion: 43 Resp: 549016

Ion Ratio Lower Upper

43 100

72 25.5 21.0 31.4



#26

2,2-Dichloropropane

Concen: 20.417 ug/l

RT: 4.58 min Scan# 605

Delta R.T. -0.00 min

Lab File: VX014086.D

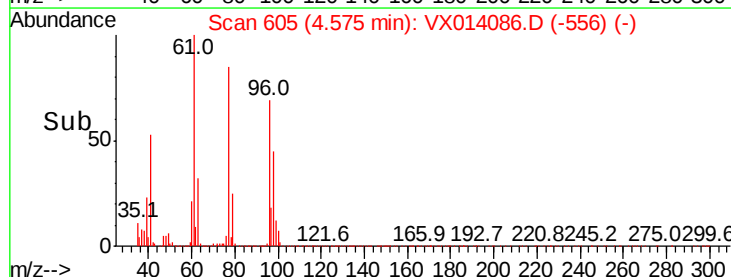
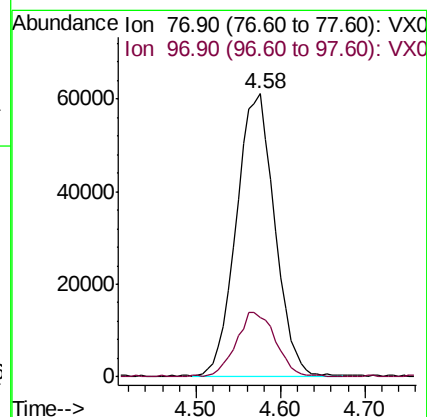
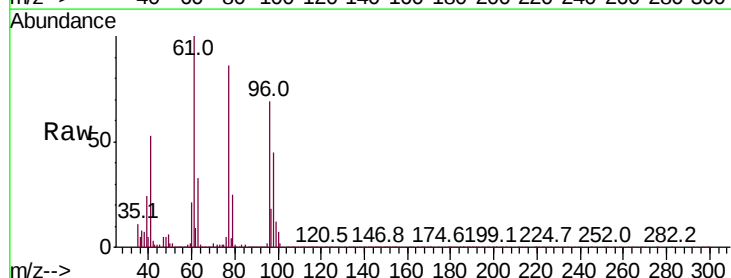
Acq: 18 Dec 2019 11:02

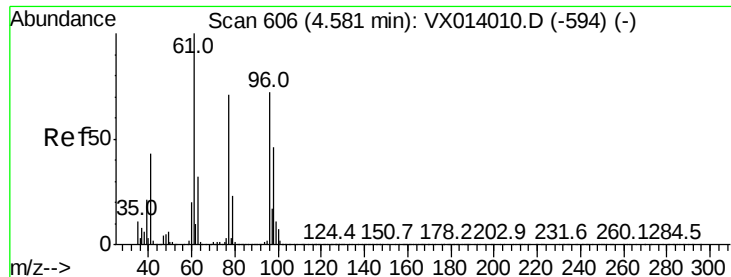
Tgt Ion: 77 Resp: 186899

Ion Ratio Lower Upper

77 100

97 23.8 11.9 35.9



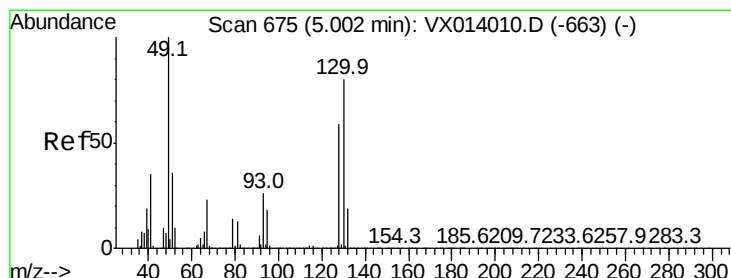
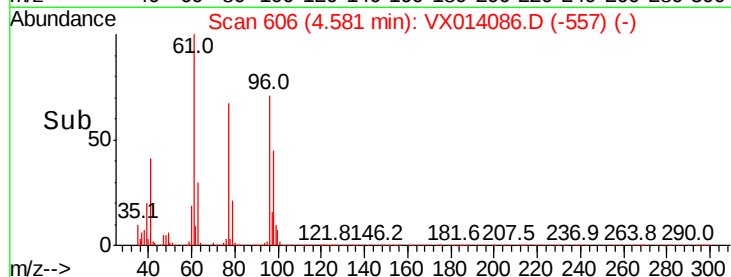
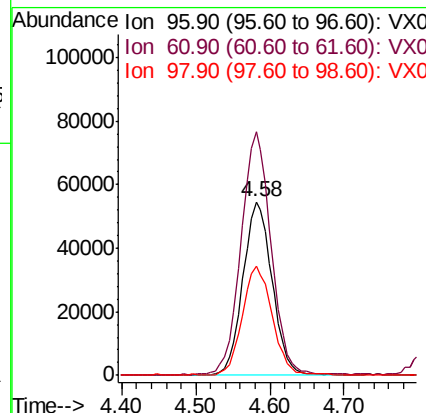
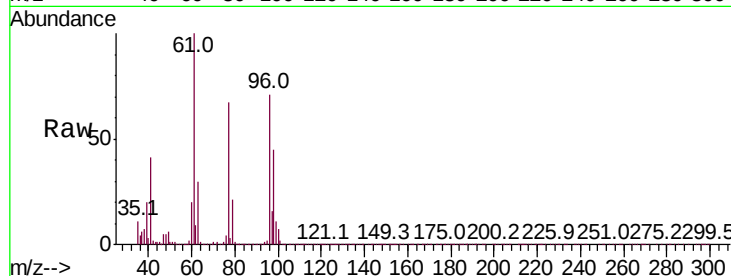


#27

cis-1,2-Dichloroethene  
Concen: 20.206 ug/l  
RT: 4.58 min Scan# 606  
Delta R.T. -0.00 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1218WBS01

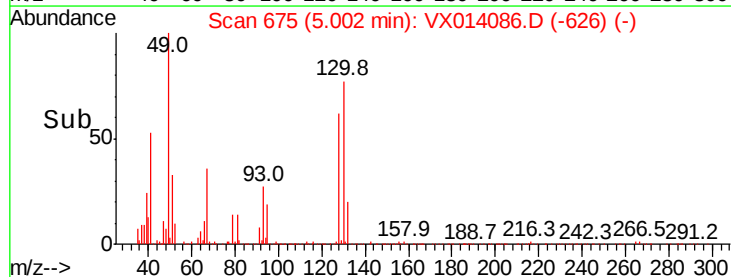
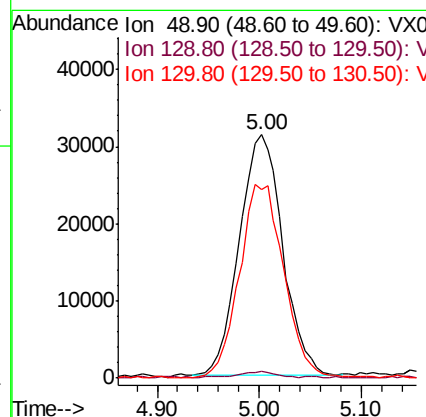
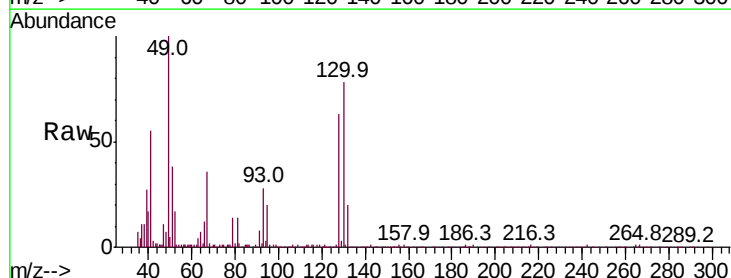
| Tot Ion | 96    | Resp  | 149946 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 96      | 100   |       |        |
| 61      | 146.0 | 0.0   | 288.4  |
| 98      | 63.7  | 0.0   | 129.6  |

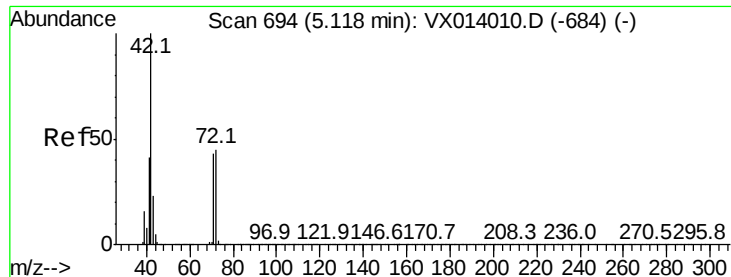


#28

Bromochloromethane  
Concen: 20.687 ug/l  
RT: 5.00 min Scan# 675  
Delta R.T. -0.00 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

| Tgt Ion | 49    | Resp  | 92587 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 49      | 100   |       |       |
| 129     | 2.5   | 0.0   | 5.0   |
| 130     | 81.7  | 64.6  | 97.0  |





#29

Tetrahydrofuran

Concen: 106.042 ug/l

RT: 5.11 min Scan# 693

Delta R.T. -0.01 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

VX1218WBS01

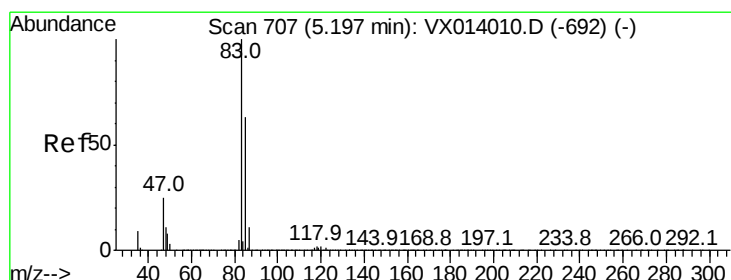
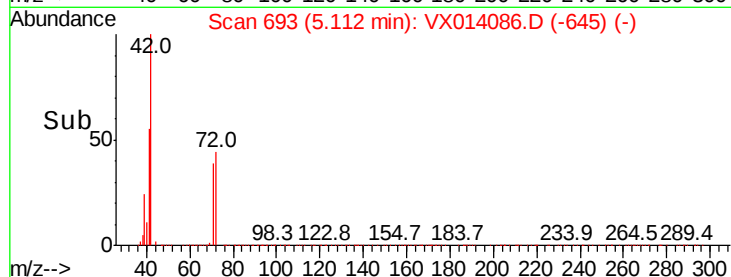
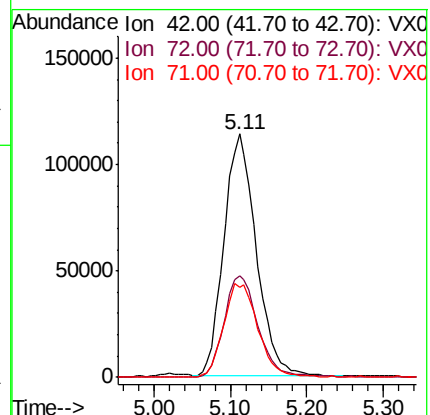
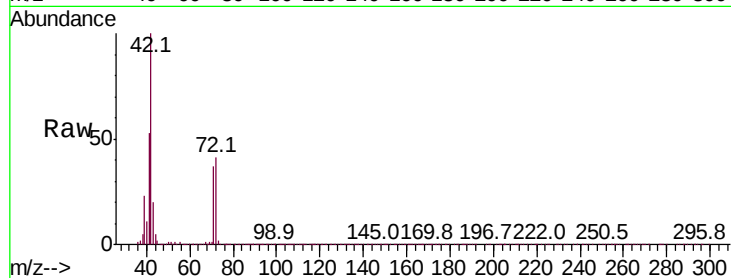
Tot Ion: 42 Resp: 333147

Ion Ratio Lower Upper

42 100

72 43.9 35.8 53.8

71 40.7 33.6 50.4



#30

Chloroform

Concen: 20.576 ug/l

RT: 5.20 min Scan# 707

Delta R.T. -0.00 min

Lab File: VX014086.D

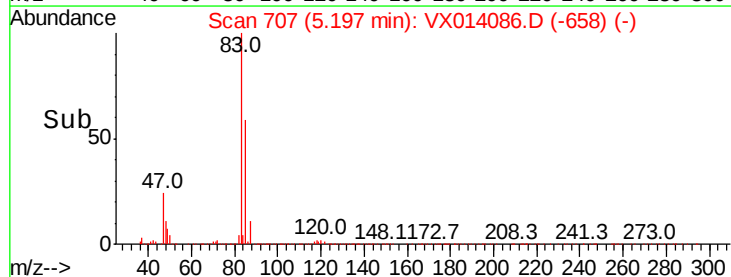
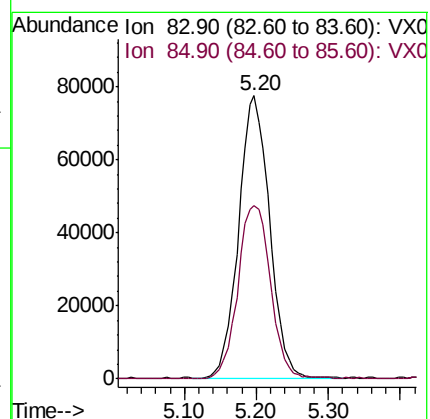
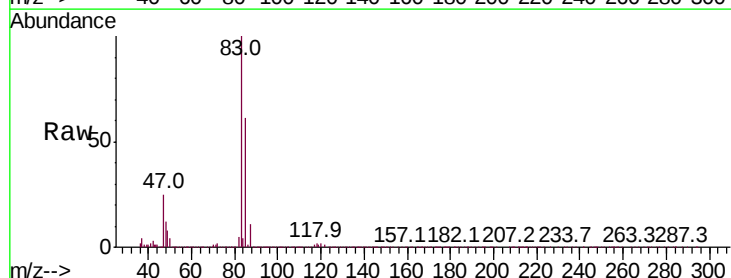
Acq: 18 Dec 2019 11:02

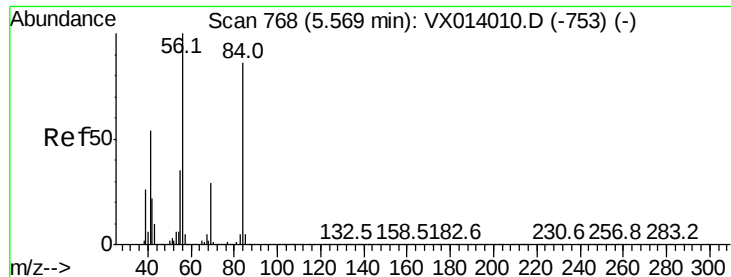
Tgt Ion: 83 Resp: 229972

Ion Ratio Lower Upper

83 100

85 61.2 50.8 76.2





#31

Cyclohexane

Concen: 21.073 ug/l

RT: 5.57 min Scan# 768

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

VX1218WBS01

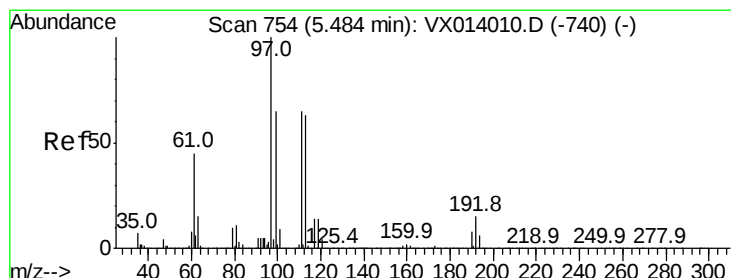
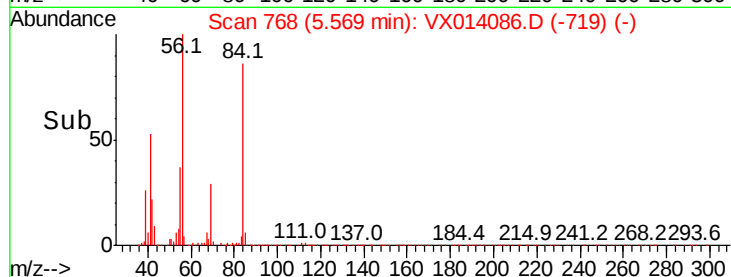
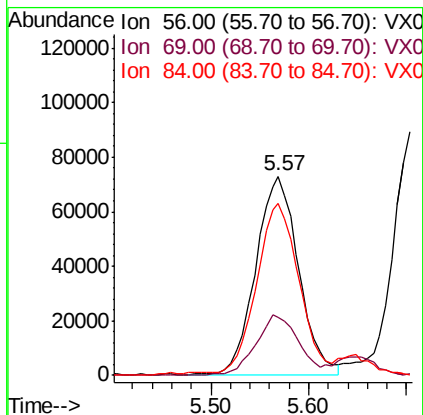
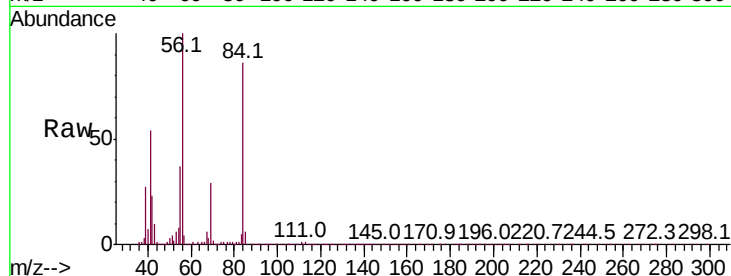
Tot Ion: 56 Resp: 220981

Ion Ratio Lower Upper

56 100

69 29.2 23.2 34.8

84 85.0 69.2 103.8



#32

1,1,1-Trichloroethane

Concen: 20.053 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

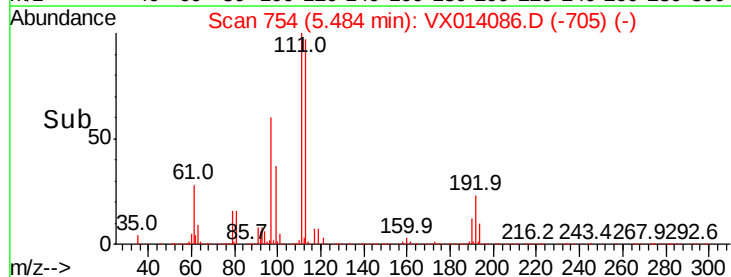
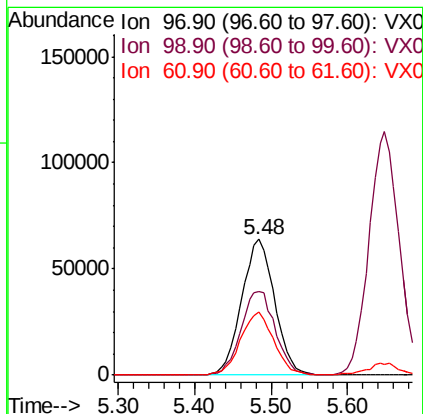
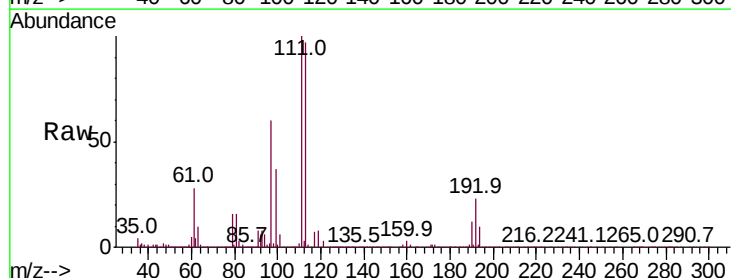
Tgt Ion: 97 Resp: 191023

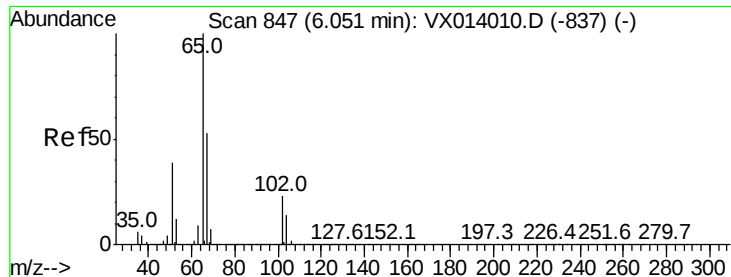
Ion Ratio Lower Upper

97 100

99 63.9 52.0 78.0

61 46.6 36.7 55.1





#33

1,2-Dichloroethane-d4

Concen: 50.409 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

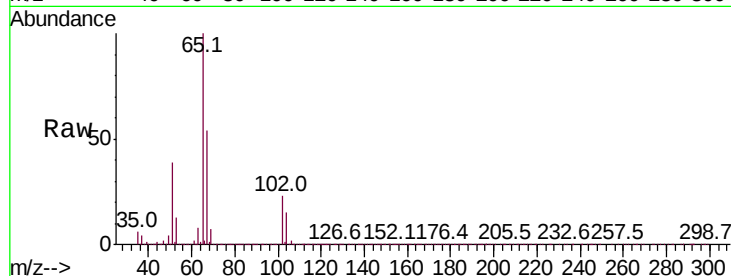
VX1218WBS01

Tot Ion: 65 Resp: 353744

Ion Ratio Lower Upper

65 100

67 52.7 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

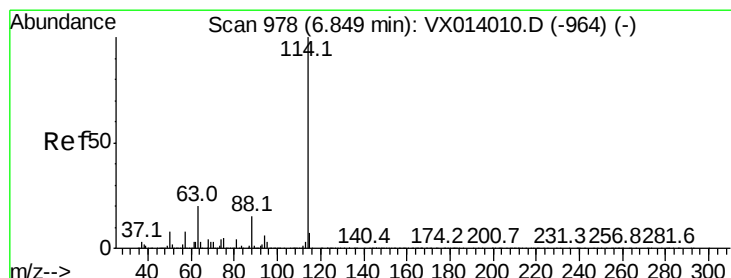
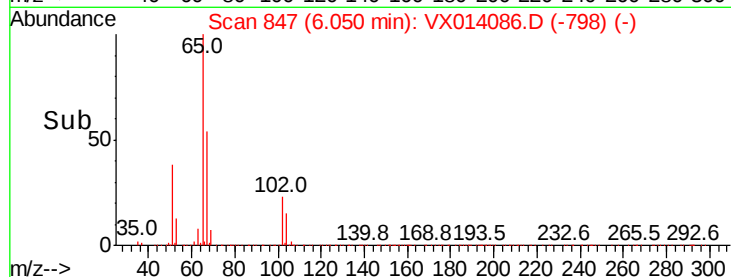
150000

100000

50000

0

Time--> 5.90 6.00 6.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

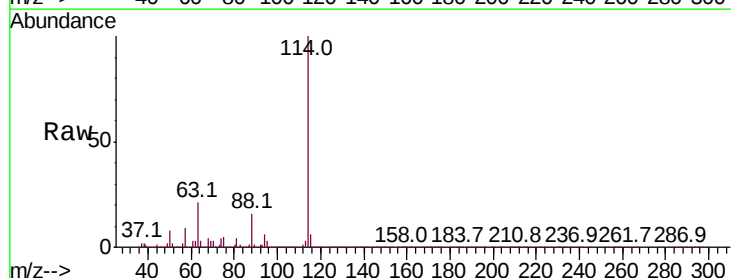
Tgt Ion: 114 Resp: 934844

Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.8

88 16.1 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

500000

400000

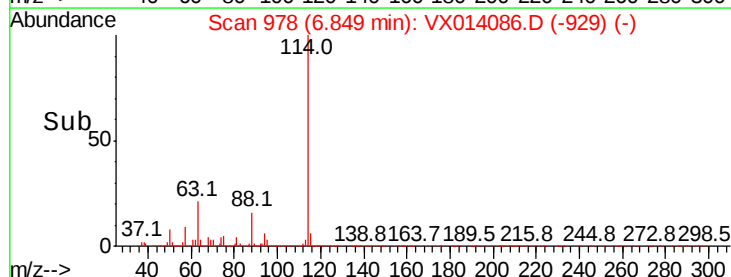
300000

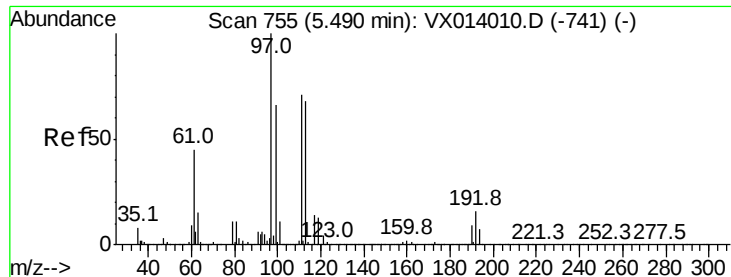
200000

100000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 50.994 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :  
MSVOA\_X  
ClientSampled :  
VX1218WBS01

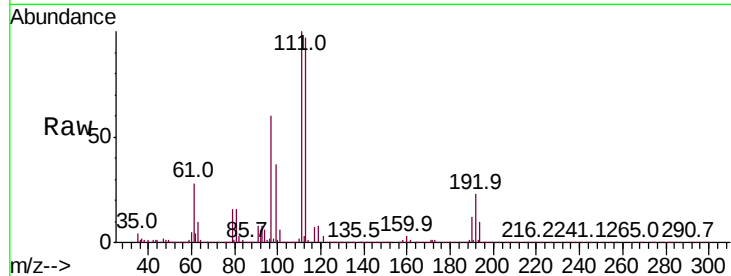
Tot Ion:113 Resp: 289791

Ion Ratio Lower Upper

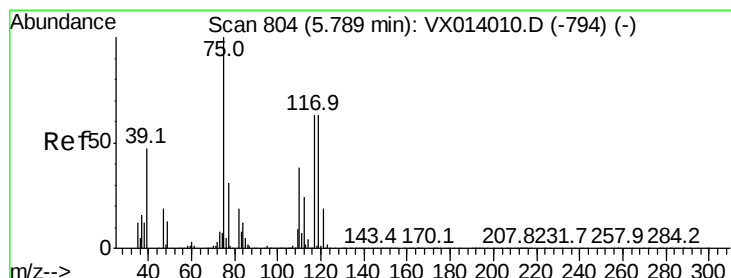
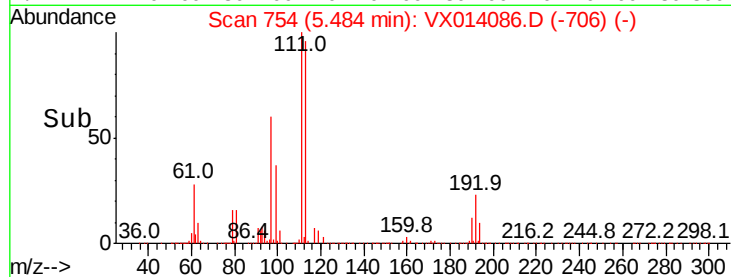
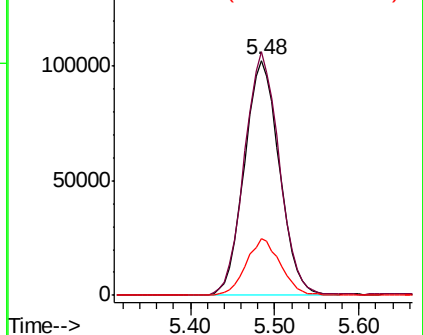
113 100

111 102.8 82.0 123.0

192 23.6 19.3 28.9



Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 20.490 ug/l

RT: 5.79 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

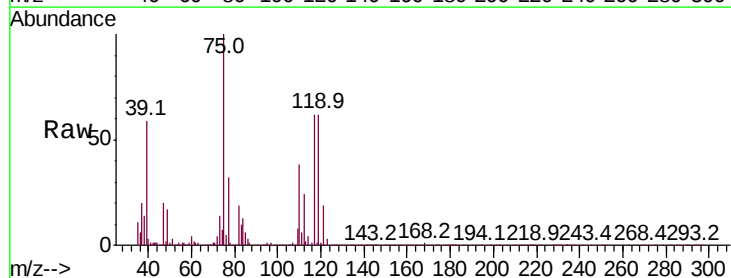
Tgt Ion: 75 Resp: 175760

Ion Ratio Lower Upper

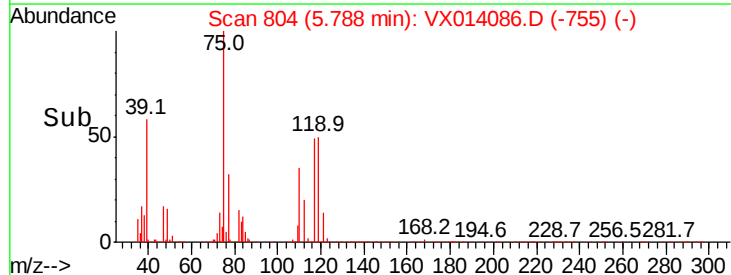
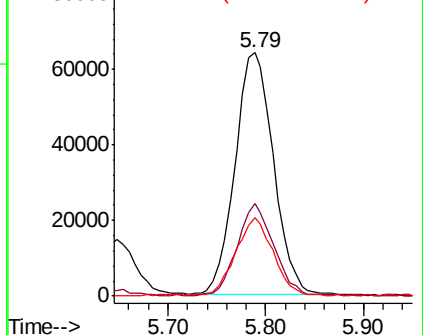
75 100

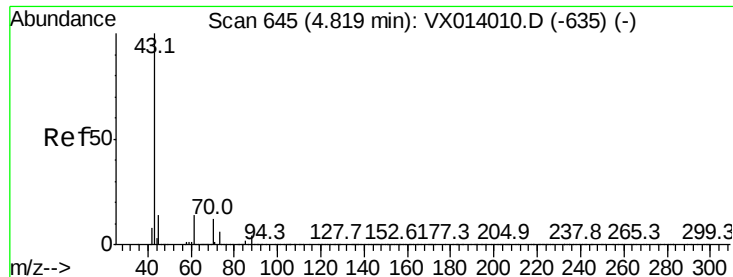
110 36.1 18.3 54.9

77 31.5 24.8 37.2



Abundance Ion 74.90 (74.60 to 75.60): VX0  
Ion 109.90 (109.60 to 110.60): V  
Ion 76.90 (76.60 to 77.60): VX0

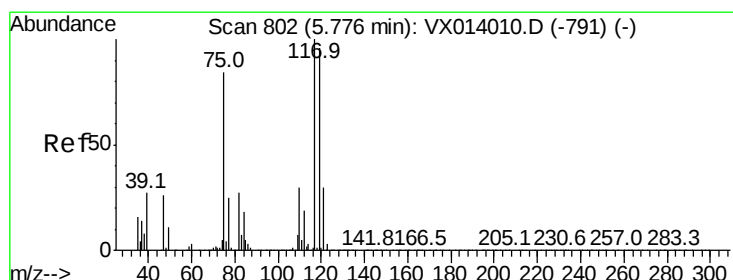
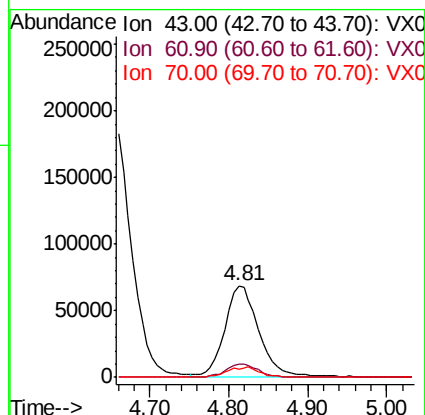
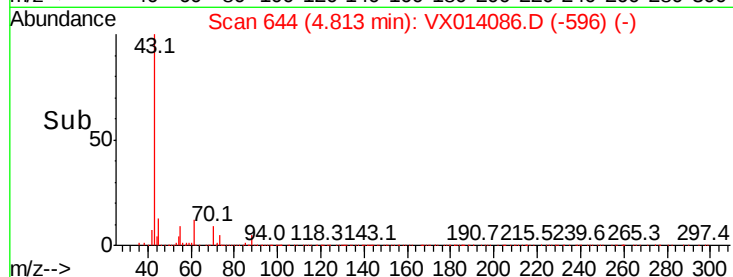
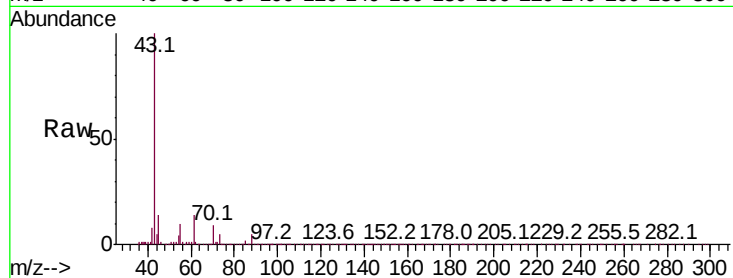




#37  
Ethyl Acetate  
Concen: 21.253 ug/l  
RT: 4.81 min Scan# 644  
Delta R.T. -0.01 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

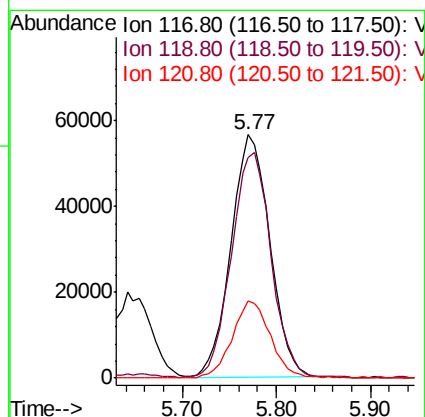
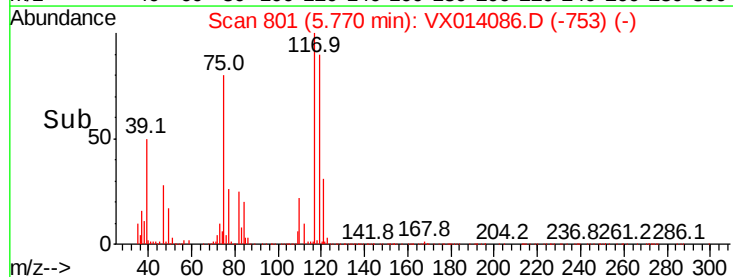
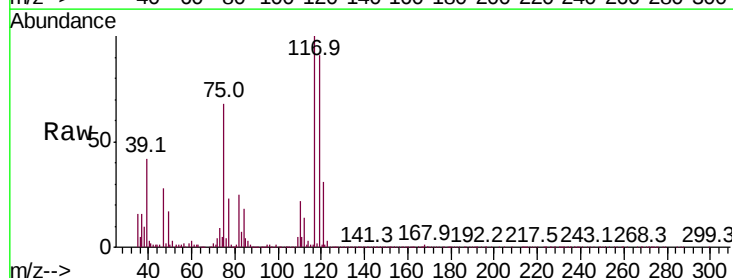
Instrument :  
MSVOA\_X  
ClientSampleID :  
VX1218WBS01

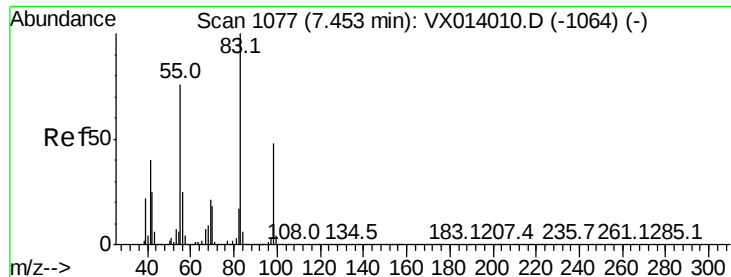
Tot Ion: 43 Resp: 201314  
Ion Ratio Lower Upper  
43 100  
61 13.4 10.8 16.2  
70 10.7 8.6 12.8



#38  
Carbon Tetrachloride  
Concen: 20.908 ug/l  
RT: 5.77 min Scan# 801  
Delta R.T. -0.01 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

Tgt Ion: 117 Resp: 163380  
Ion Ratio Lower Upper  
117 100  
119 90.9 76.2 114.4  
121 31.2 23.6 35.4

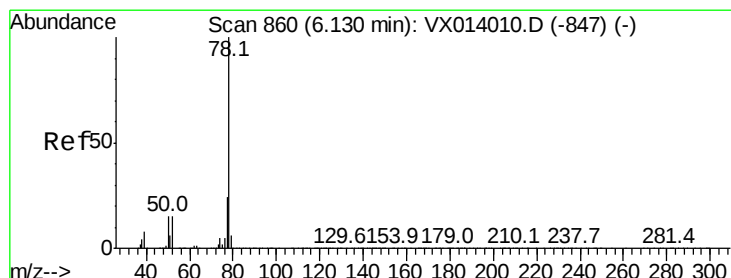
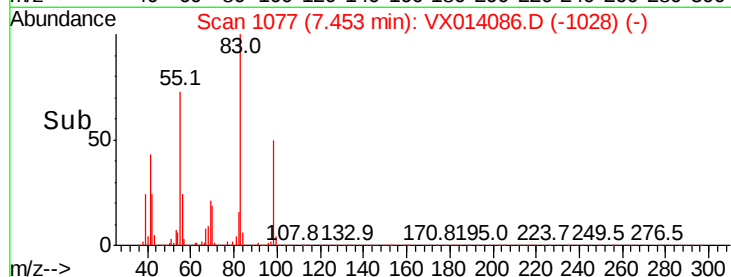
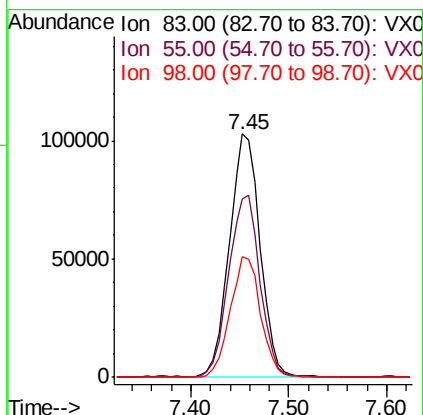
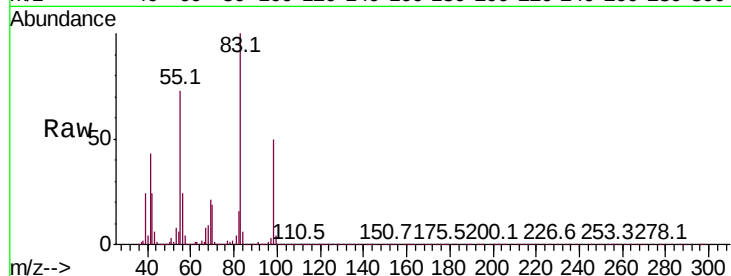




#39  
Methvlcvclohexane  
Concen: 21.072 ug/l  
RT: 7.45 min Scan# 1077  
Delta R.T. -0.00 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

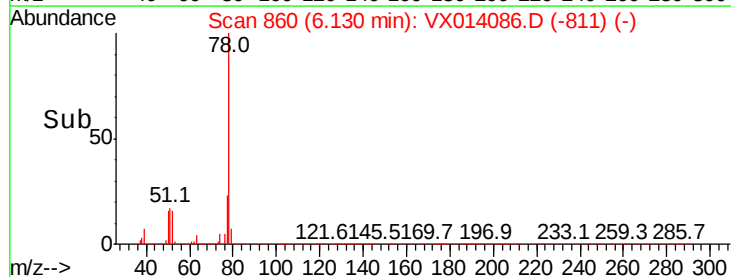
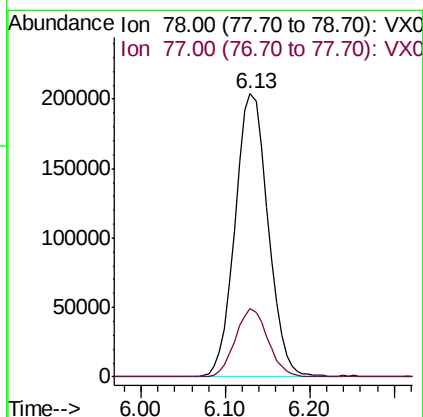
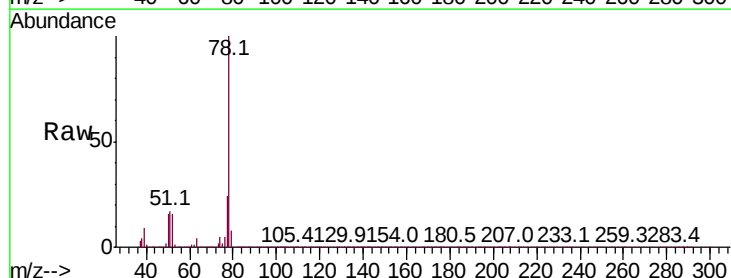
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1218WBS01

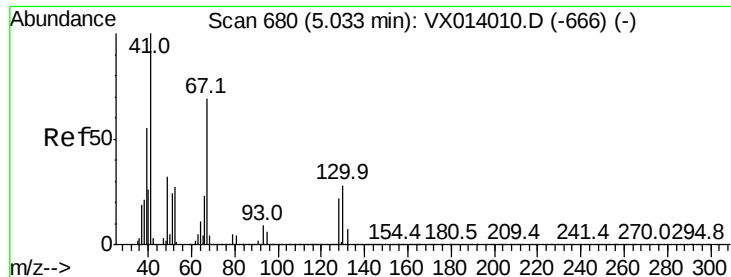
| Tot Ion   | 83    | Resp  | 223177 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 55        | 73.1  | 61.0  | 91.6   |
| 98        | 49.8  | 38.6  | 57.8   |



#40  
Benzene  
Concen: 20.418 ug/l  
RT: 6.13 min Scan# 860  
Delta R.T. -0.00 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

| Tgt Ion   | 78    | Resp  | 538891 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 78        | 100   |       |        |
| 77        | 24.1  | 18.8  | 28.2   |

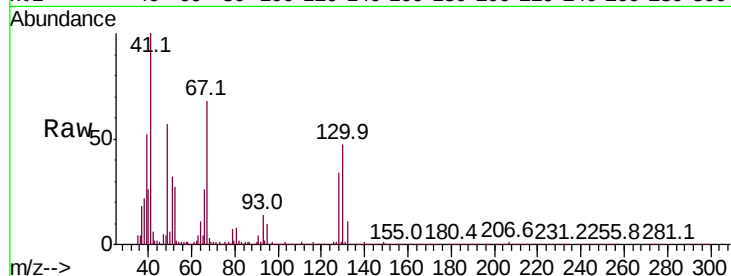




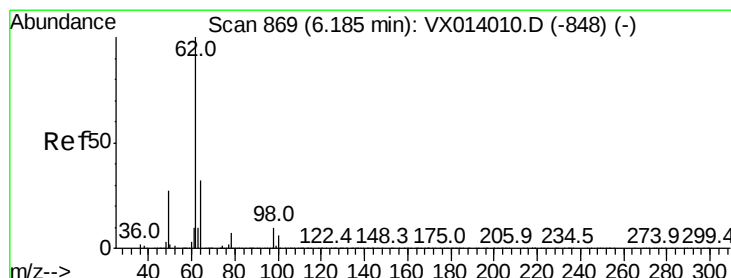
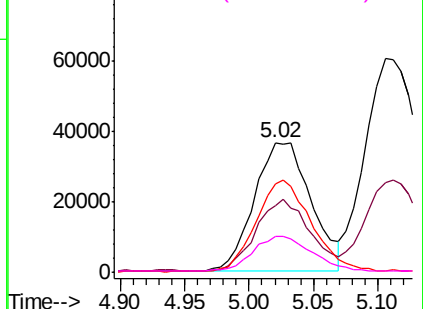
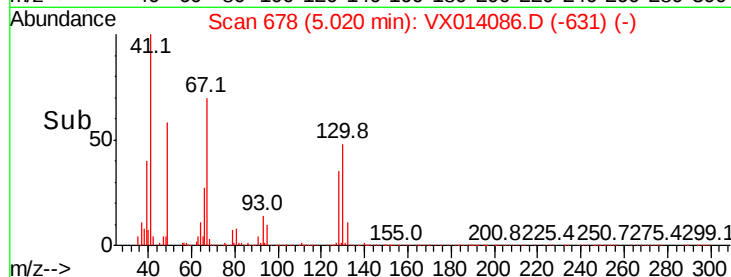
#41  
Methacrylonitrile  
Concen: 21.431 ug/l  
RT: 5.02 min Scan# 678  
Delta R.T. -0.01 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

Instrument :  
MSVOA\_X  
ClientSampled :  
VX1218WBS01

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 41    | Resp: | 112634 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 39       | 52.8  | 44.5  | 66.7   |
| 67       | 68.3  | 57.4  | 86.0   |
| 52       | 28.2  | 23.0  | 34.4   |

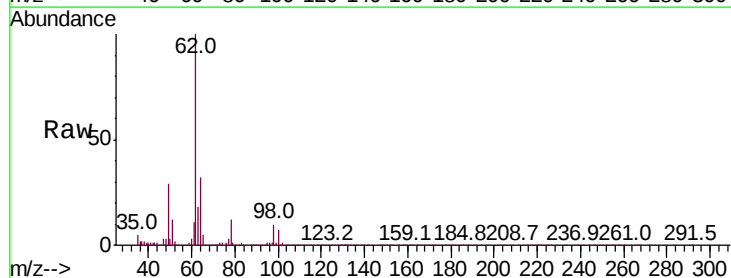


Abundance Ion 41.00 (40.70 to 41.70): VX0  
Ion 39.00 (38.70 to 39.70): VX0  
Ion 67.00 (66.70 to 67.70): VX0  
Ion 52.00 (51.70 to 52.70): VX0

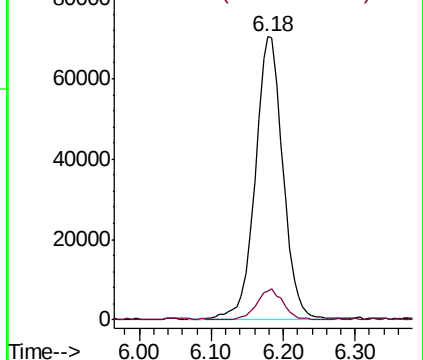
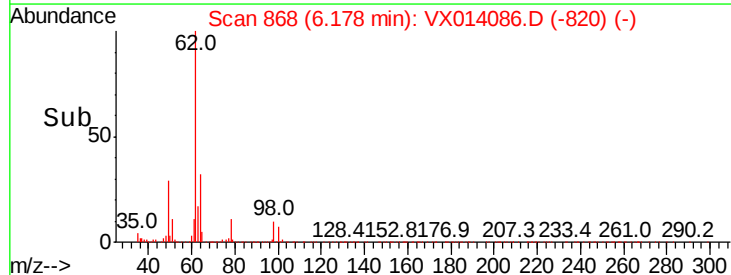


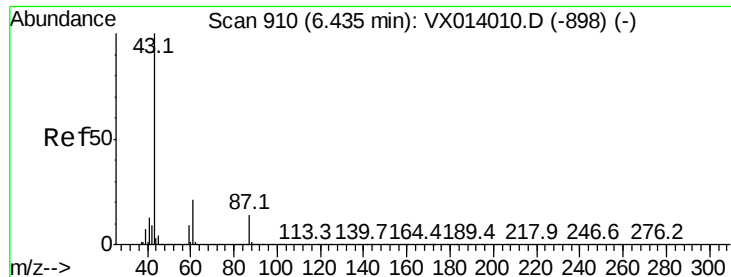
#42  
1,2-Dichloroethane  
Concen: 21.165 ug/l  
RT: 6.18 min Scan# 868  
Delta R.T. -0.01 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 189350 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 10.4  | 0.0   | 21.0   |



Abundance Ion 61.90 (61.60 to 62.60): VX0  
Ion 97.90 (97.60 to 98.60): VX0



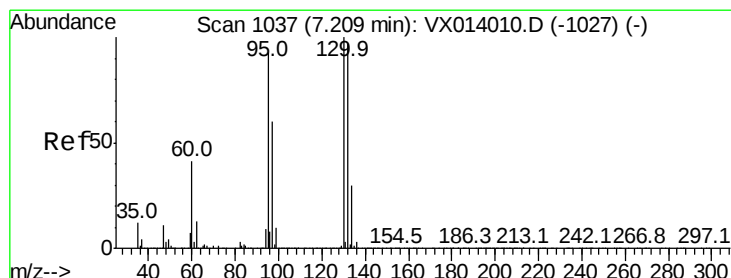
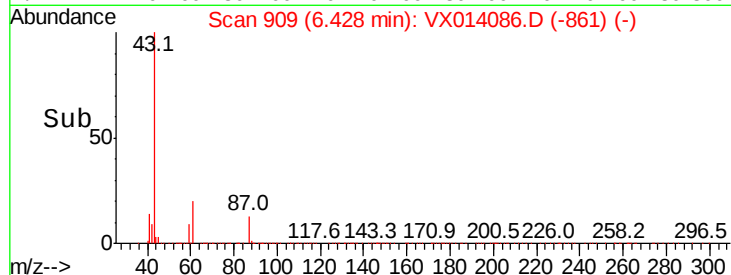
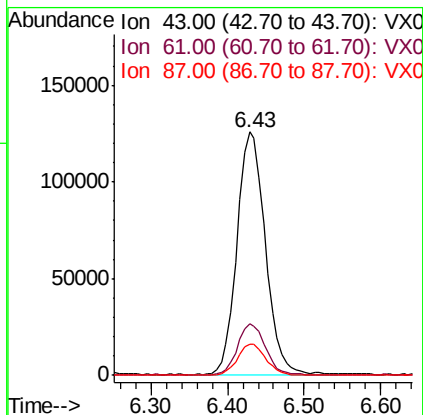
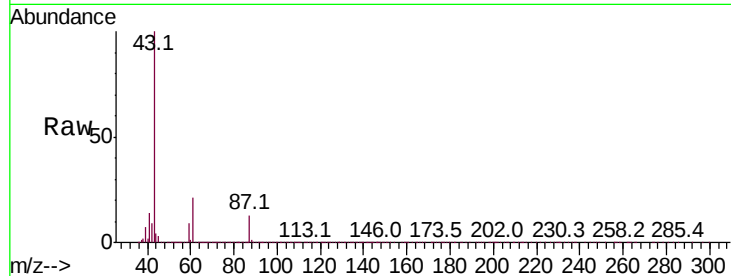


#43

Isopropyl Acetate  
 Concen: 20.582 ug/l  
 RT: 6.43 min Scan# 909  
 Delta R.T. -0.01 min  
 Lab File: VX014086.D  
 Acq: 18 Dec 2019 11:02

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1218WBS01

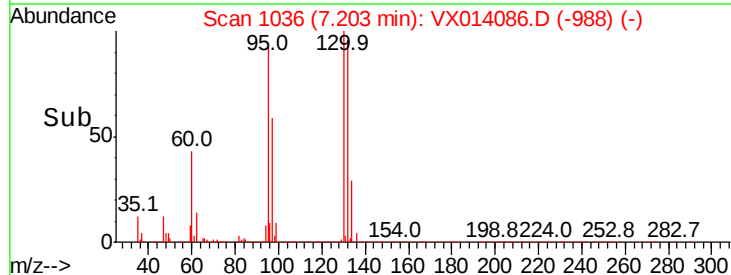
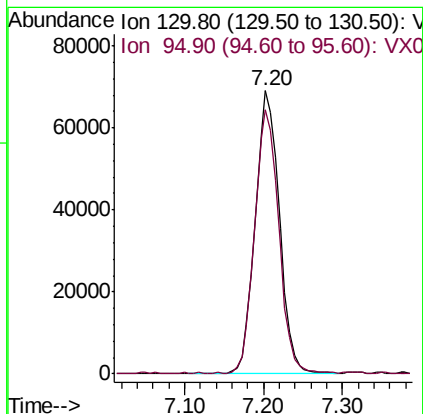
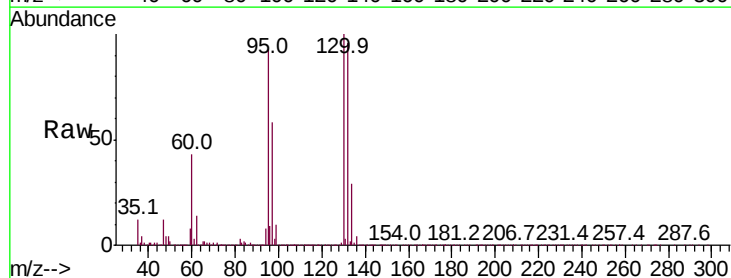
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 20.8  | 16.4  | 24.6  |
| 87      | 12.8  | 10.7  | 16.1  |

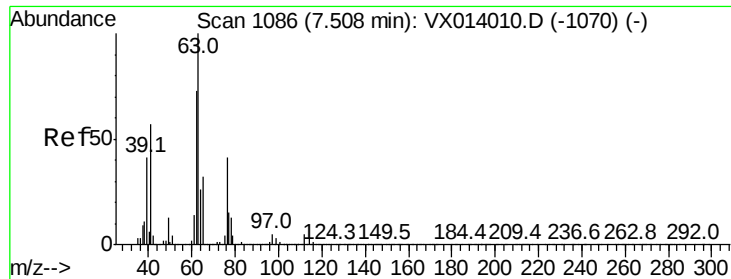


#44

Trichloroethene  
 Concen: 20.326 ug/l  
 RT: 7.20 min Scan# 1036  
 Delta R.T. -0.01 min  
 Lab File: VX014086.D  
 Acq: 18 Dec 2019 11:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 93.0  | 0.0   | 185.6 |

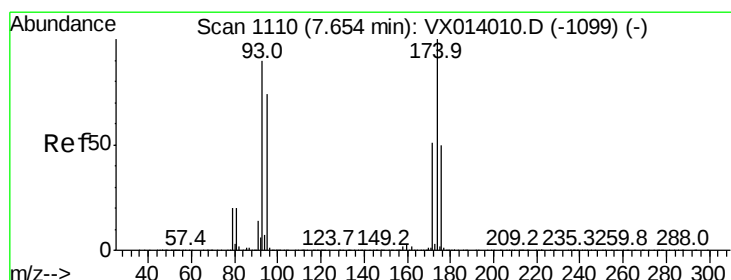
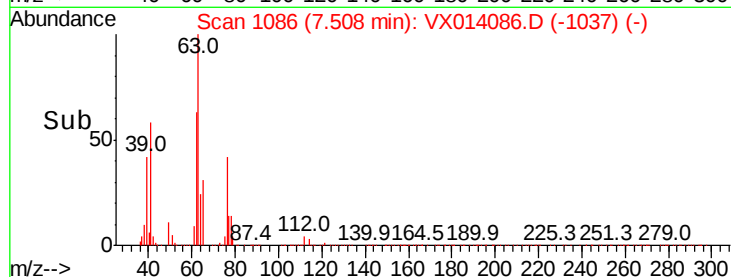
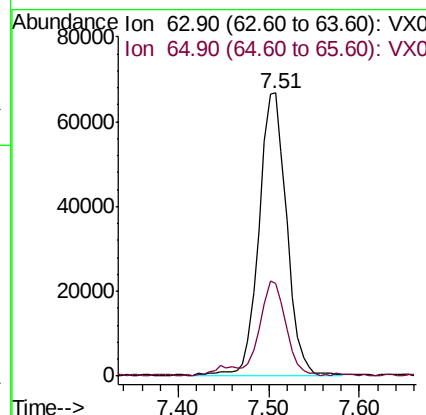
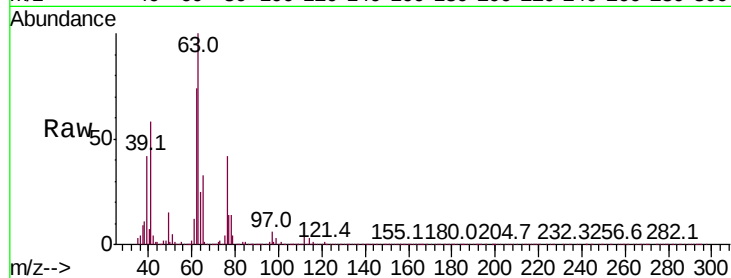




#45  
1,2-Dichloropropane  
Concen: 20.745 ug/l  
RT: 7.51 min Scan# 1086  
Delta R.T. -0.00 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

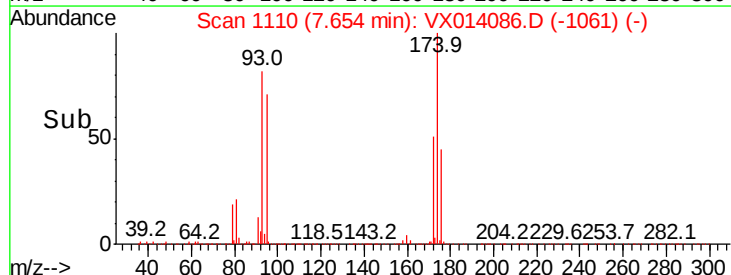
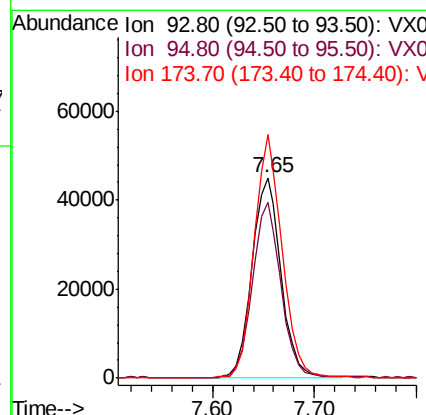
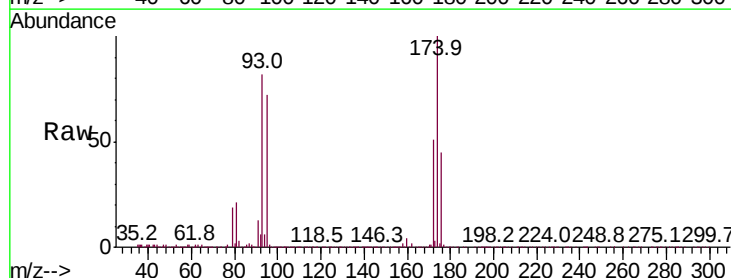
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1218WBS01

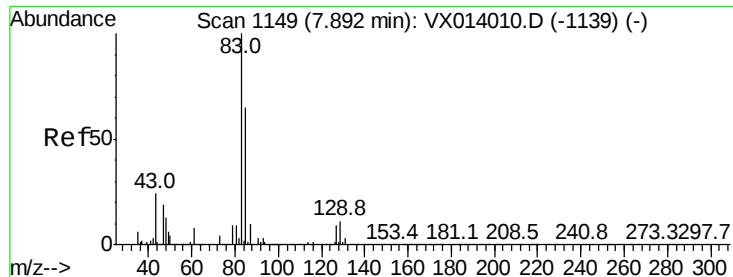
Tot Ion: 63 Resp: 140333  
Ion Ratio Lower Upper  
63 100  
65 32.5 25.8 38.8



#46  
Dibromomethane  
Concen: 20.085 ug/l  
RT: 7.65 min Scan# 1110  
Delta R.T. -0.00 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

Tgt Ion: 93 Resp: 89829  
Ion Ratio Lower Upper  
93 100  
95 86.1 67.3 100.9  
174 117.3 91.6 137.4





#47

Bromodichloromethane

Concen: 20.491 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

VX1218WBS01

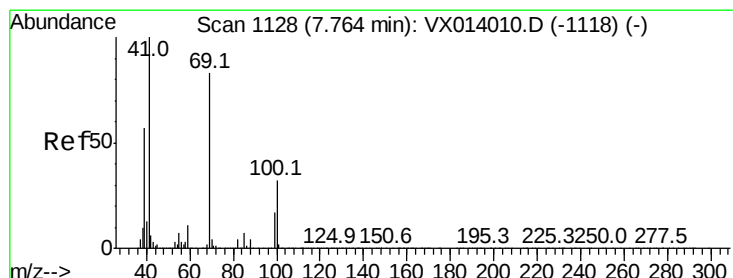
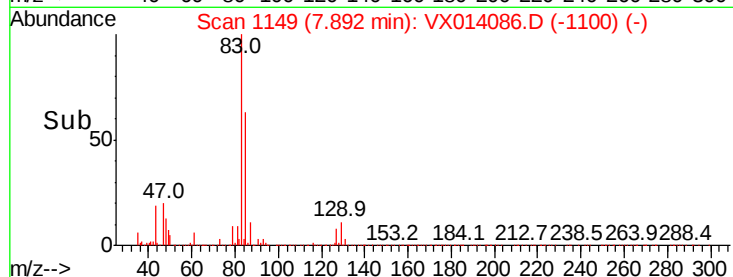
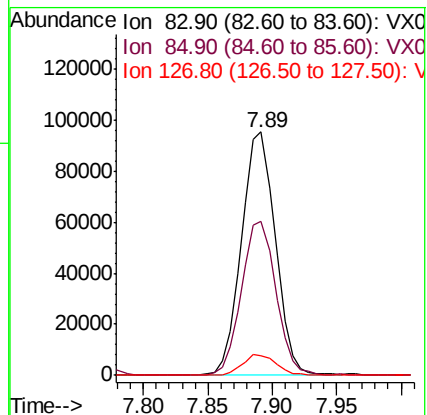
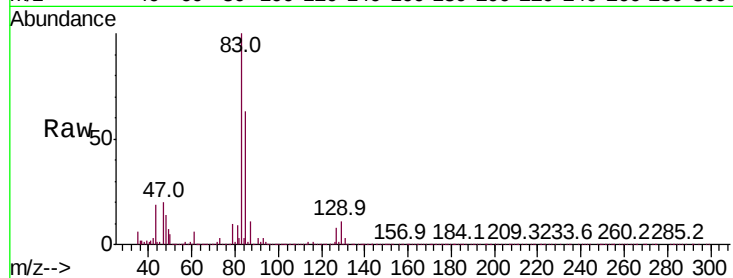
Tot Ion: 83 Resp: 172601

Ion Ratio Lower Upper

83 100

85 63.3 51.8 77.8

127 8.0 7.0 10.4



#48

Methyl methacrylate

Concen: 20.734 ug/l

RT: 7.76 min Scan# 1128

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

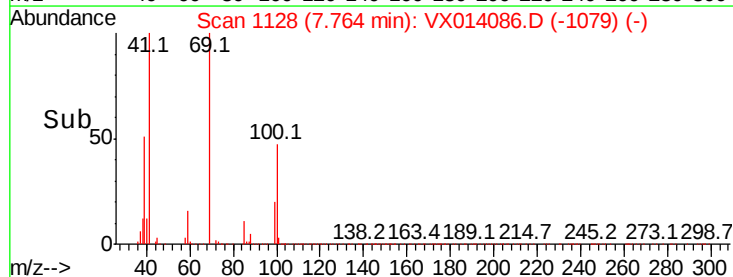
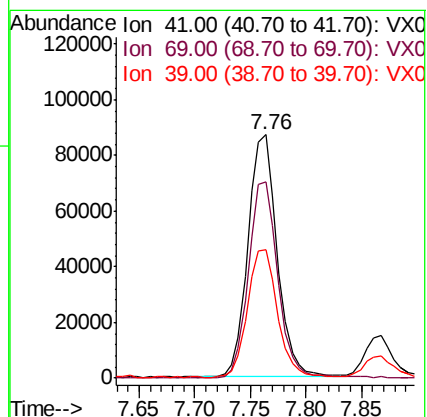
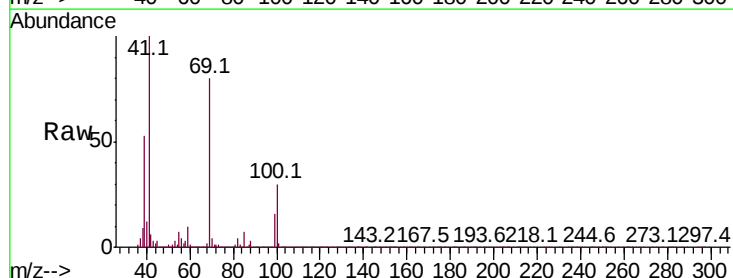
Tgt Ion: 41 Resp: 159154

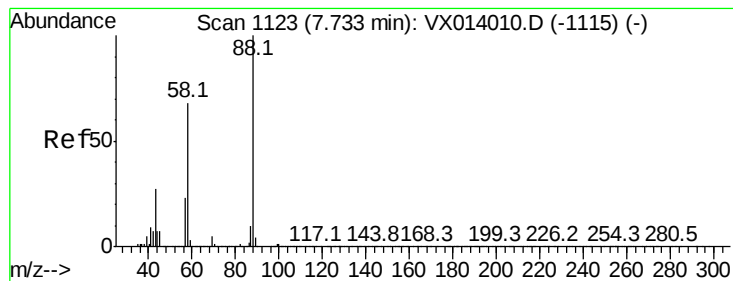
Ion Ratio Lower Upper

41 100

69 80.2 65.8 98.6

39 54.0 44.6 67.0





#49

1,4-Dioxane

Concen: 409.112 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

VX1218WBS01

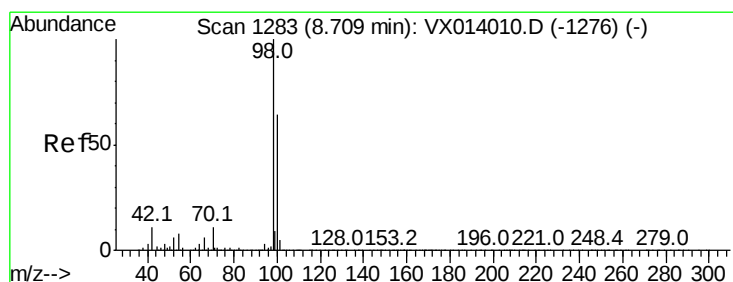
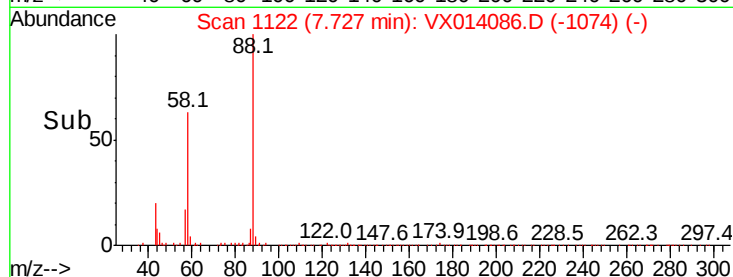
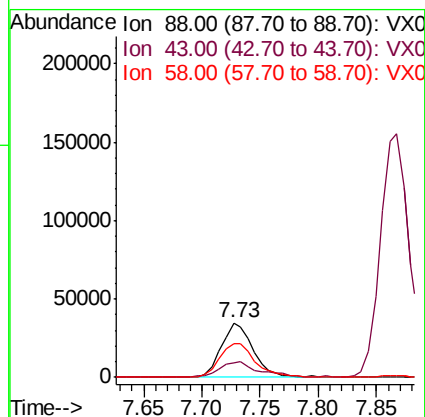
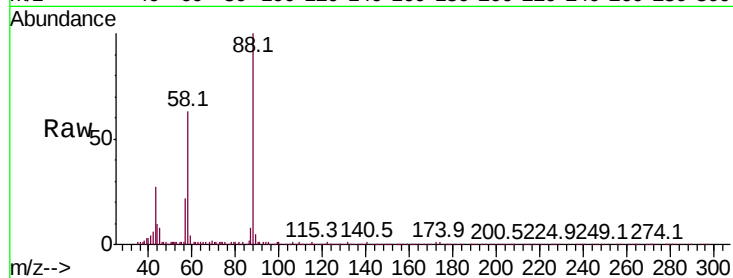
Tot Ion: 88 Resp: 63908

Ion Ratio Lower Upper

88 100

43 37.3 26.5 39.7

58 70.0 56.8 85.2



#50

Toluene-d8

Concen: 51.068 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX014086.D

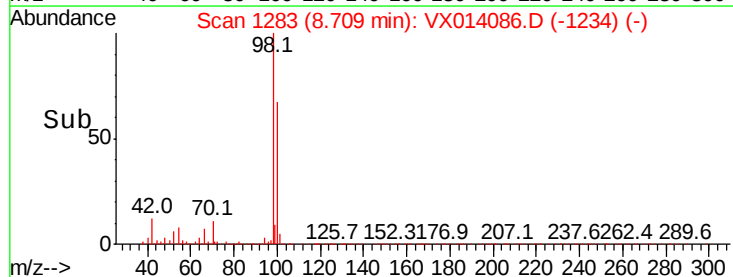
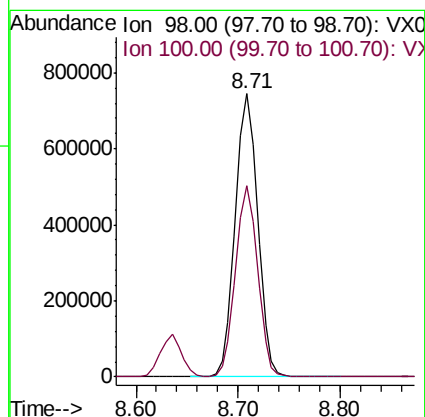
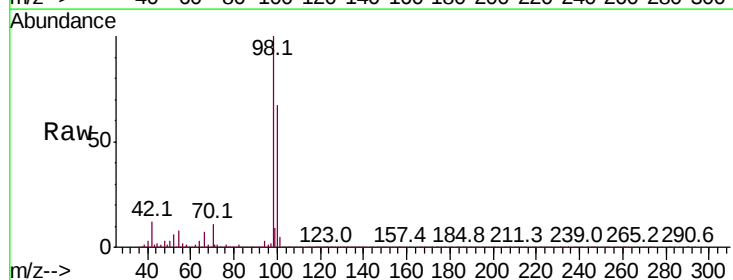
Acq: 18 Dec 2019 11:02

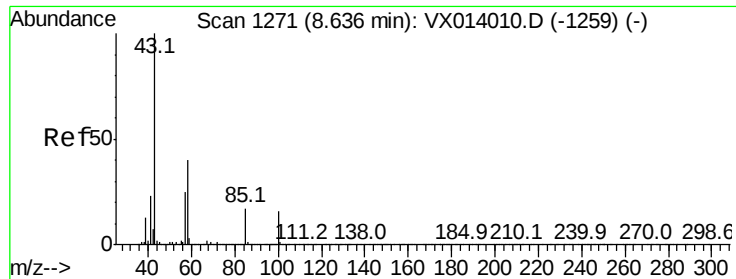
Tgt Ion: 98 Resp: 1129853

Ion Ratio Lower Upper

98 100

100 66.8 52.9 79.3

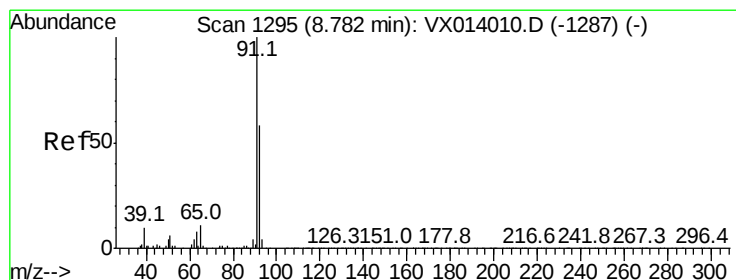
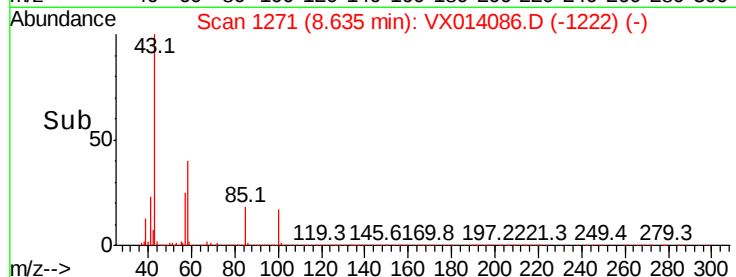
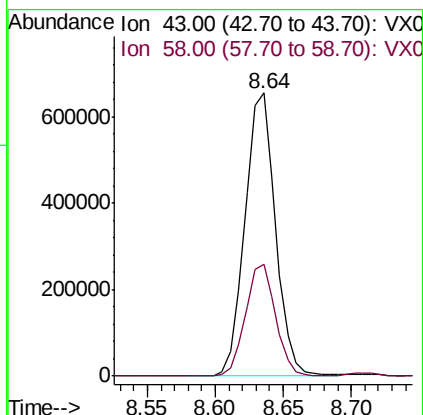
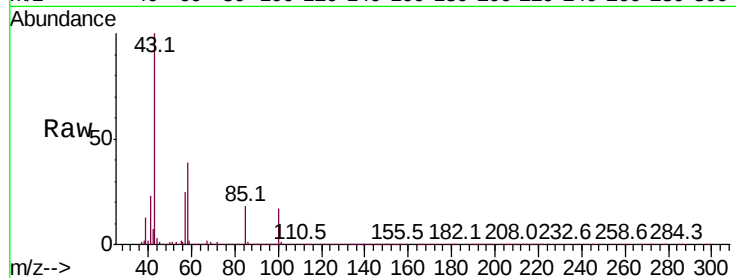




#51  
4-Methyl-2-Pentanone  
Concen: 104.514 ug/l  
RT: 8.64 min Scan# 1271  
Delta R.T. -0.00 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

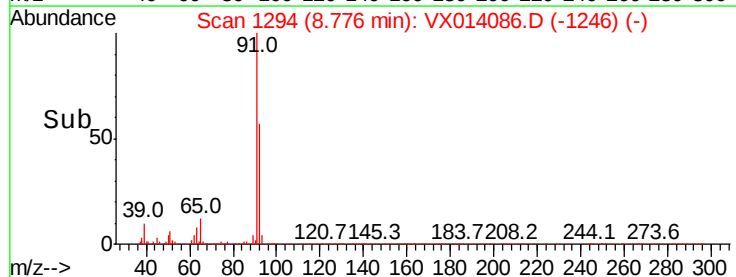
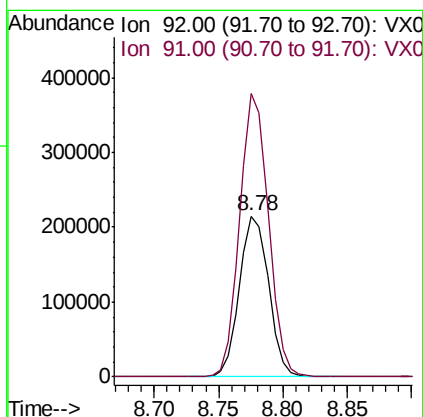
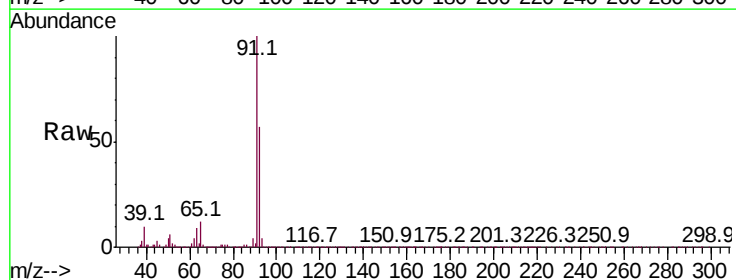
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1218WBS01

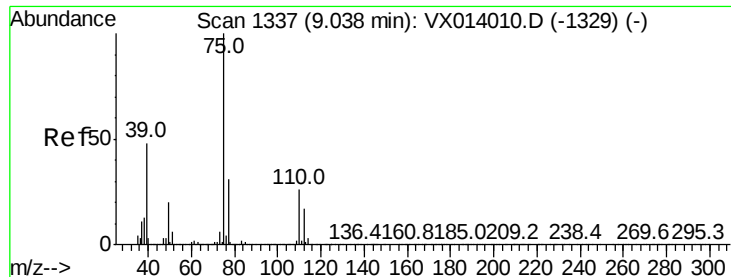
Tot Ion: 43 Resp: 1028924  
Ion Ratio Lower Upper  
43 100  
58 39.1 32.2 48.2



#52  
Toluene  
Concen: 20.299 ug/l  
RT: 8.78 min Scan# 1294  
Delta R.T. -0.01 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

Tgt Ion: 92 Resp: 338634  
Ion Ratio Lower Upper  
92 100  
91 173.0 136.2 204.4





#53

t-1,3-Dichloropropene

Concen: 20.680 ug/l

RT: 9.03 min Scan# 1336

Delta R.T. -0.01 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampled :

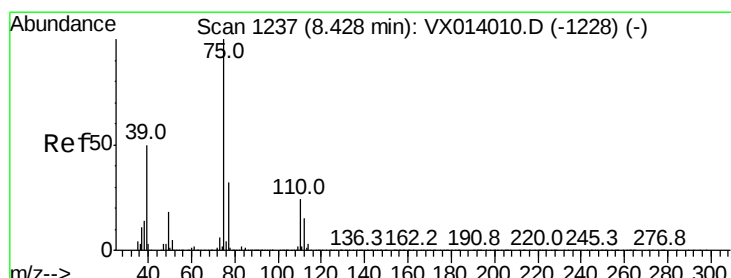
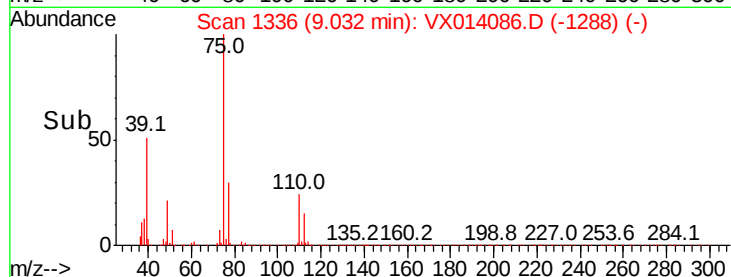
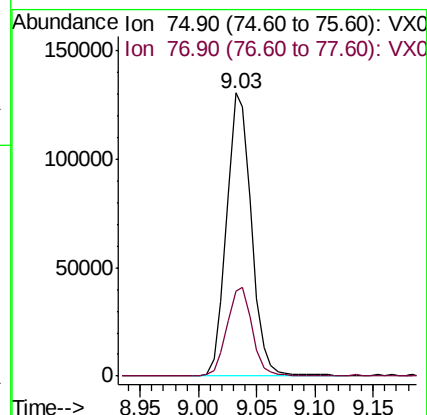
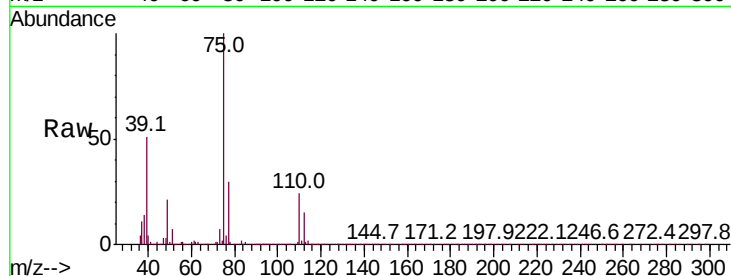
VX1218WBS01

Tot Ion: 75 Resp: 191001

Ion Ratio Lower Upper

75 100

77 30.0 25.1 37.7



#54

cis-1,3-Dichloropropene

Concen: 21.348 ug/l

RT: 8.43 min Scan# 1237

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

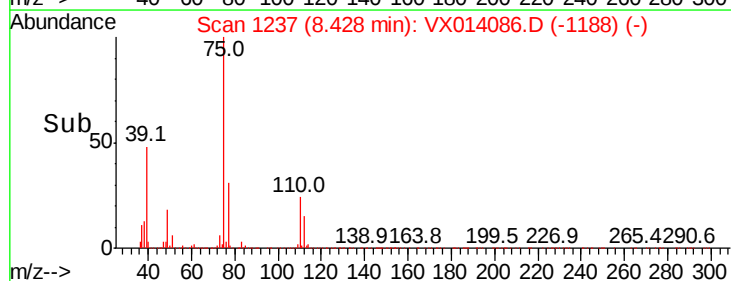
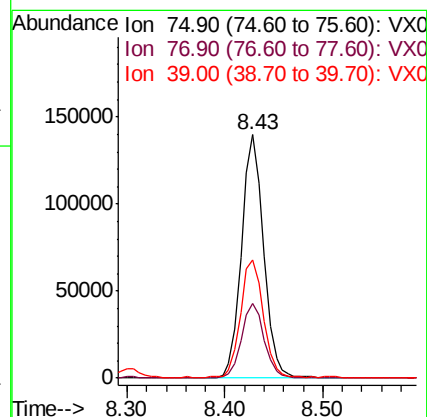
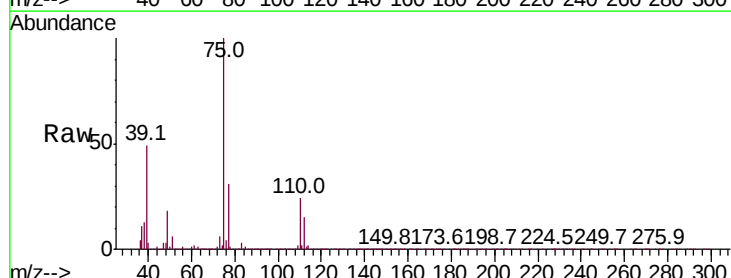
Tgt Ion: 75 Resp: 219663

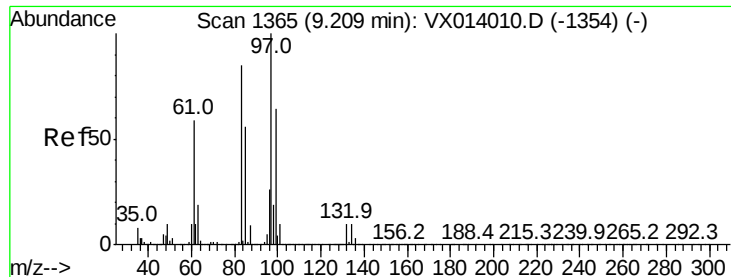
Ion Ratio Lower Upper

75 100

77 30.8 25.3 37.9

39 48.4 39.9 59.9





#55

1,1,2-Trichloroethane

Concen: 20.580 ug/l

RT: 9.21 min Scan# 1365

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

VX1218WBS01

Tot Ion: 97 Resp: 137596

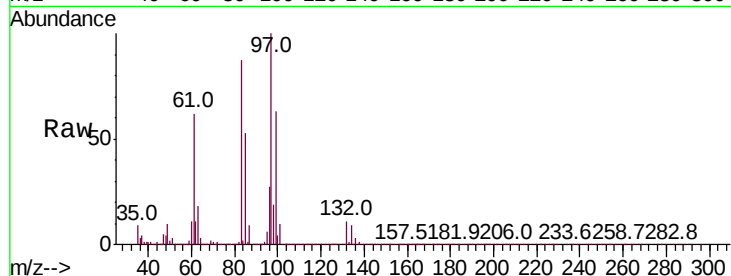
Ion Ratio Lower Upper

97 100

83 86.6 68.2 102.4

85 53.4 44.6 66.8

99 62.5 51.4 77.0

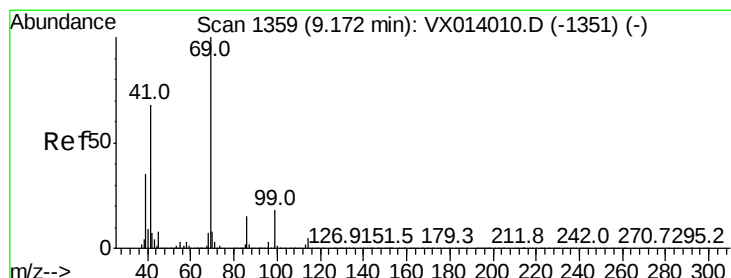
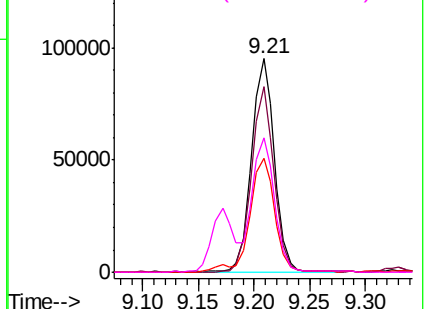
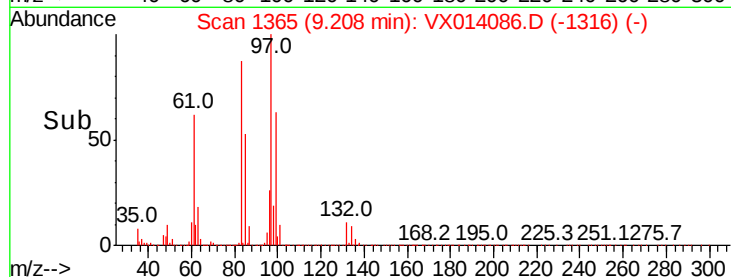


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0



#56

Ethyl methacrylate

Concen: 20.601 ug/l

RT: 9.17 min Scan# 1359

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

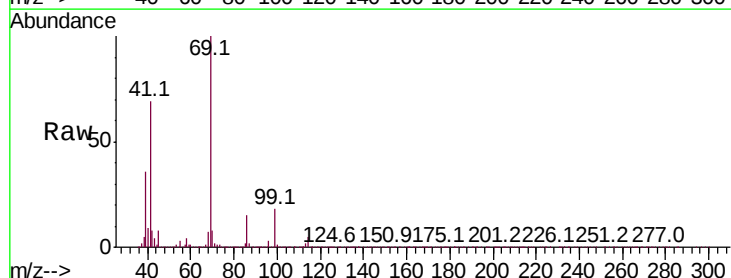
Tgt Ion: 69 Resp: 216360

Ion Ratio Lower Upper

69 100

41 68.6 54.8 82.2

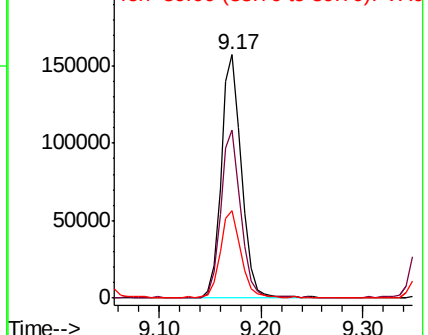
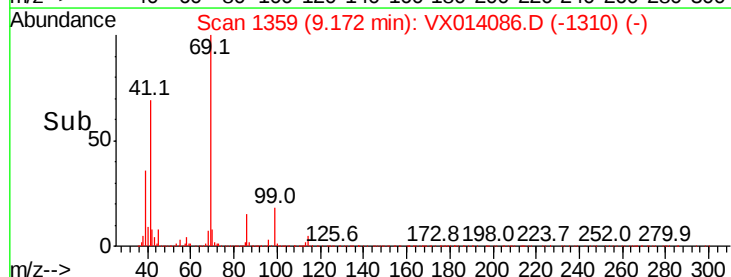
39 36.5 28.3 42.5

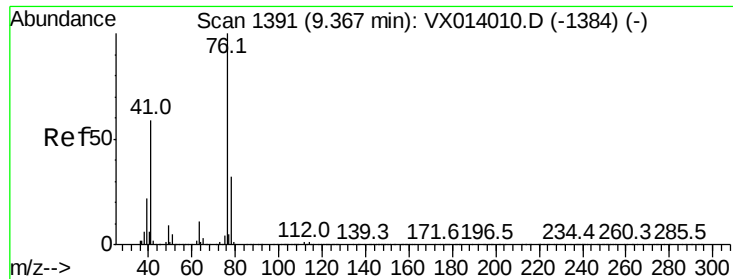


Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#57

1,3-Dichloropropane

Concen: 20.983 ug/l

RT: 9.37 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

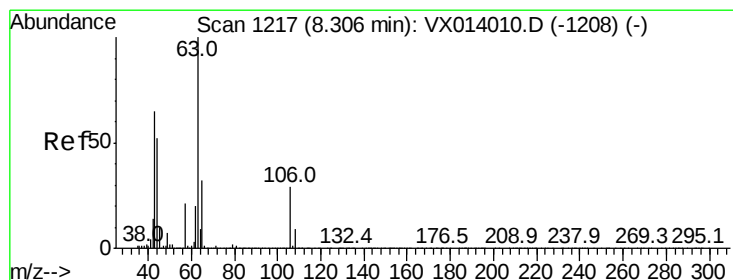
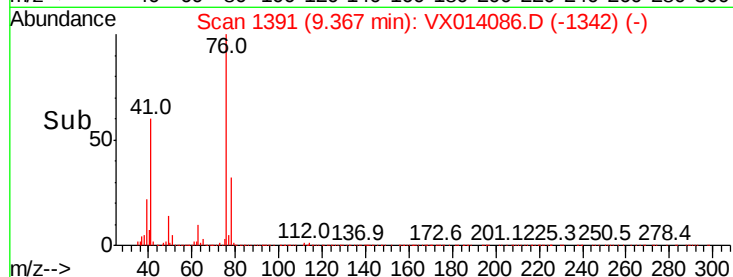
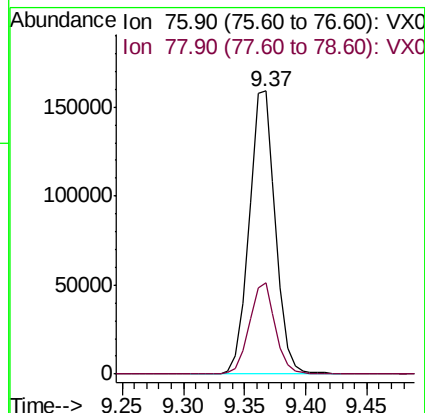
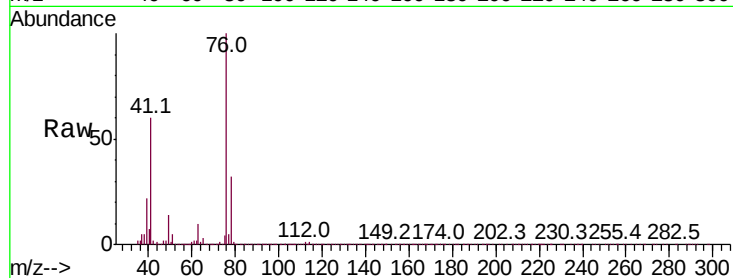
VX1218WBS01

Tot Ion: 76 Resp: 236040

Ion Ratio Lower Upper

76 100

78 31.6 25.8 38.6



#58

2-Chloroethyl Vinyl ether

Concen: 102.269 ug/l

RT: 8.31 min Scan# 1217

Delta R.T. -0.00 min

Lab File: VX014086.D

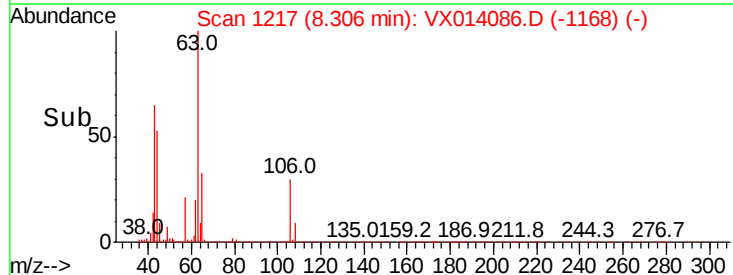
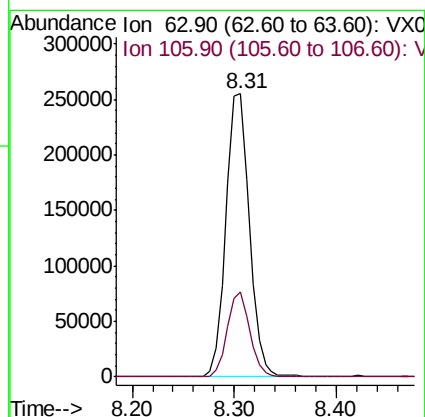
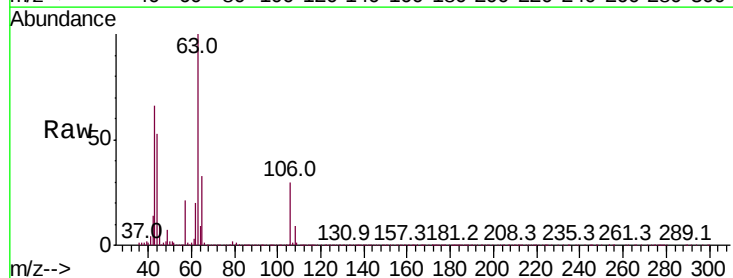
Acq: 18 Dec 2019 11:02

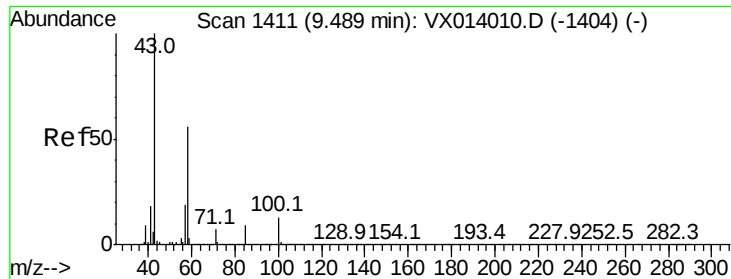
Tgt Ion: 63 Resp: 406473

Ion Ratio Lower Upper

63 100

106 28.8 23.0 34.6

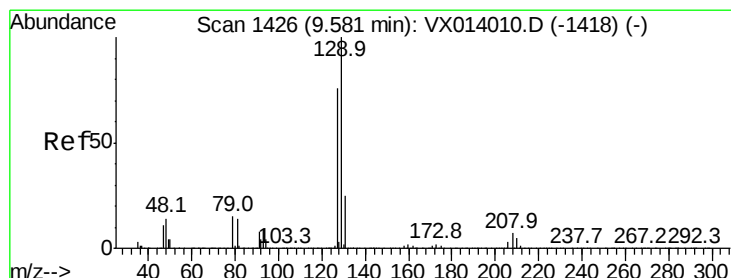
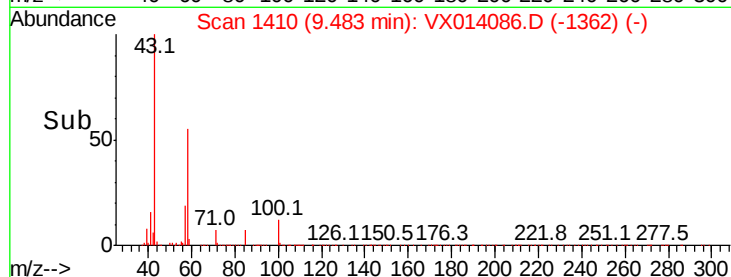
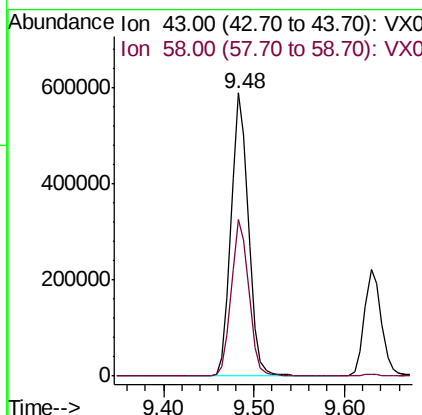
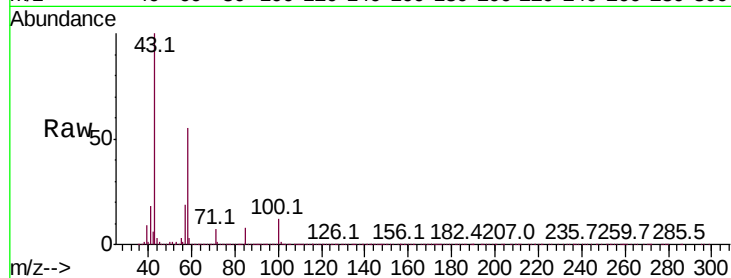




#59  
2-Hexanone  
Concen: 99.109 ug/l  
RT: 9.48 min Scan# 1410  
Delta R.T. -0.01 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

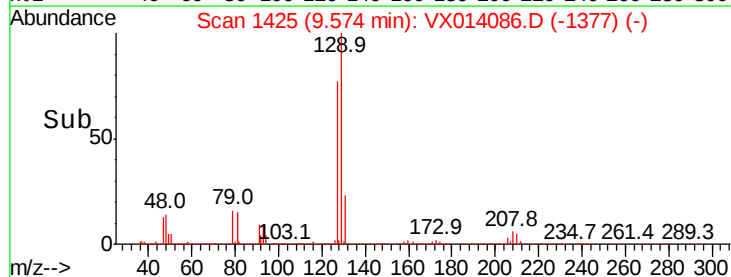
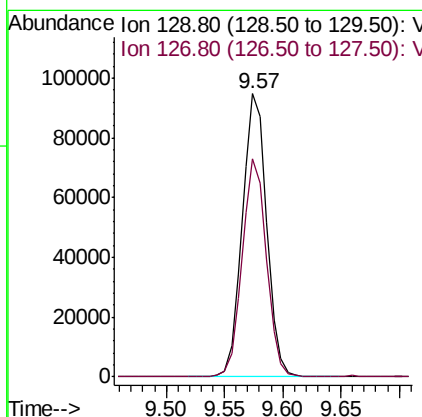
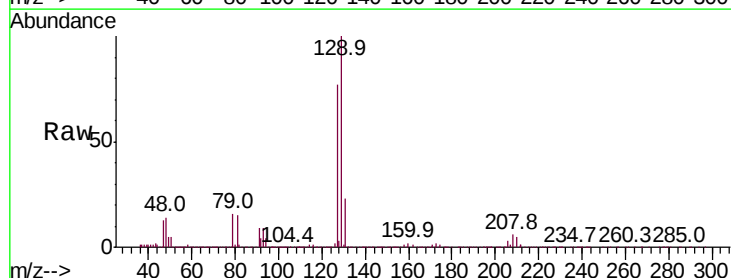
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1218WBS01

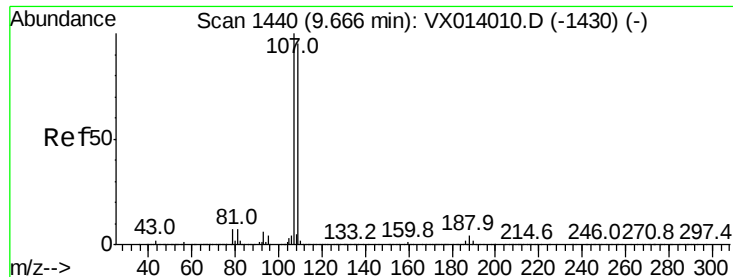
Tot Ion: 43 Resp: 785453  
Ion Ratio Lower Upper  
43 100  
58 55.7 28.0 84.0



#60  
Dibromochloromethane  
Concen: 20.874 ug/l  
RT: 9.57 min Scan# 1425  
Delta R.T. -0.01 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

Tgt Ion: 129 Resp: 138728  
Ion Ratio Lower Upper  
129 100  
127 76.8 38.4 115.2





#61

1,2-Dibromoethane

Concen: 20.791 ug/l

RT: 9.67 min Scan# 1440

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

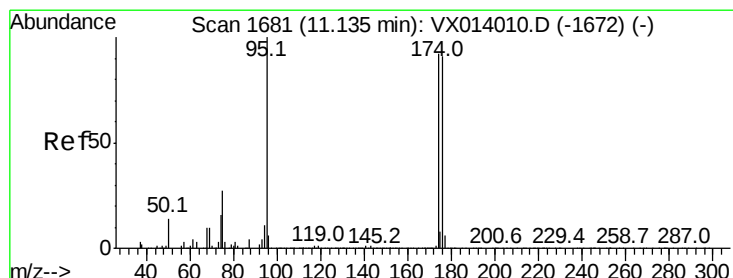
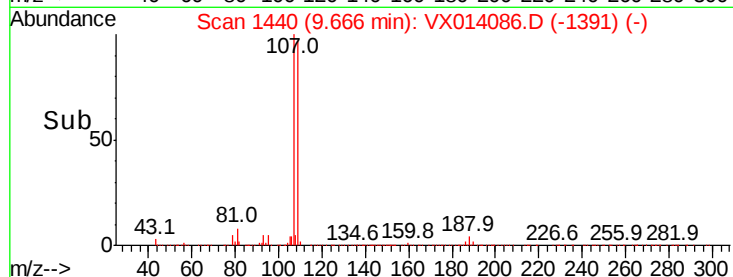
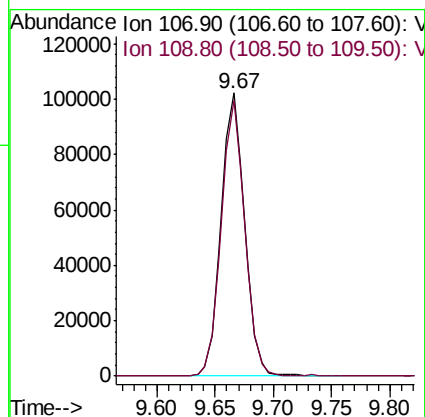
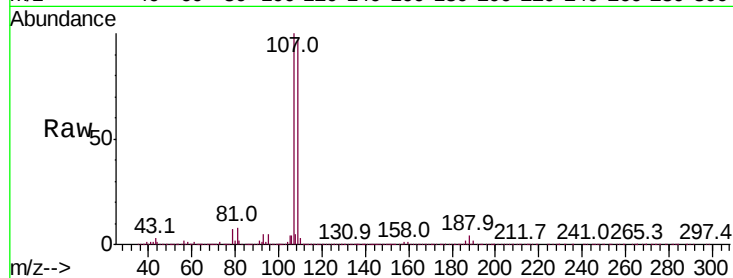
VX1218WBS01

Tot Ion:107 Resp: 142228

Ion Ratio Lower Upper

107 100

109 96.7 75.7 113.5



#62

4-Bromofluorobenzene

Concen: 49.911 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

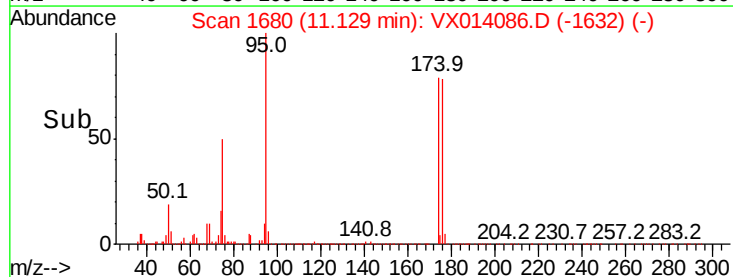
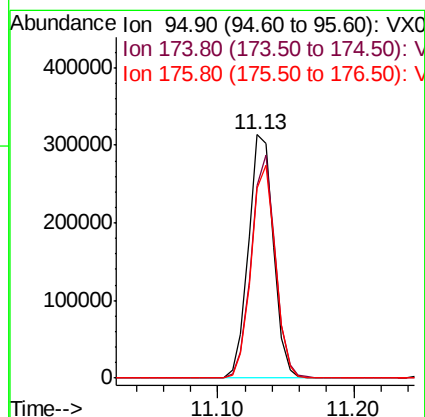
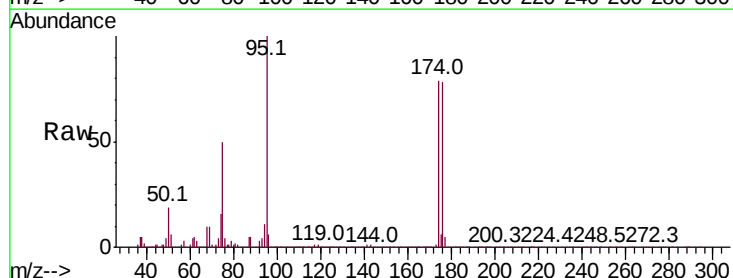
Tgt Ion: 95 Resp: 403656

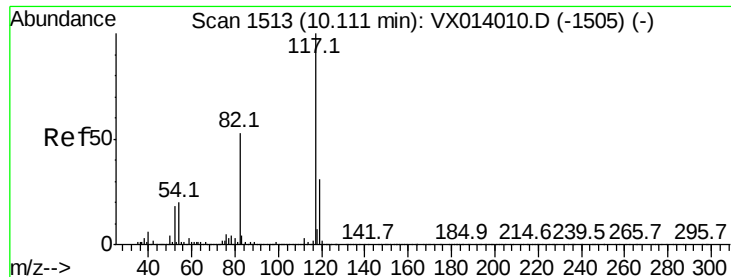
Ion Ratio Lower Upper

95 100

174 88.4 0.0 175.8

176 85.8 0.0 173.0

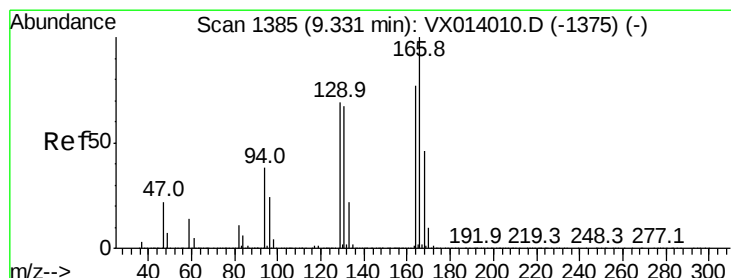
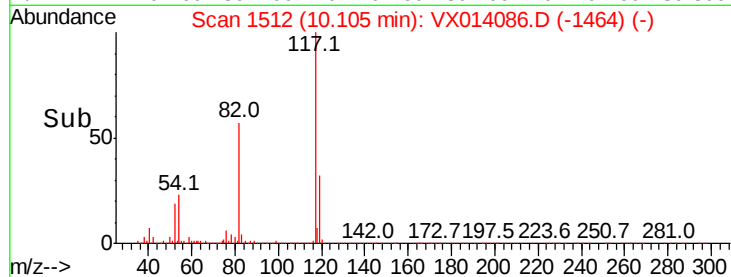
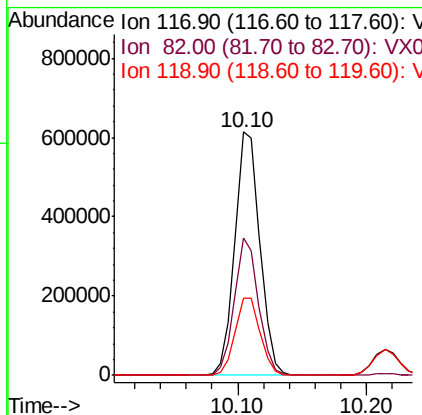
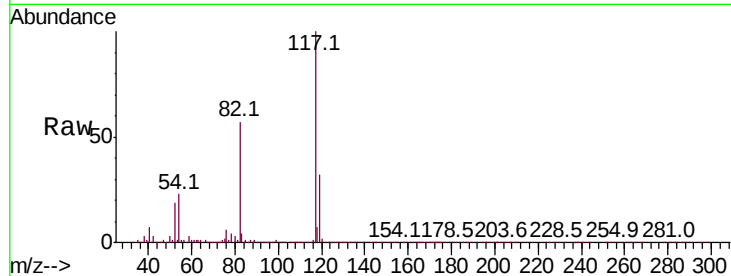




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1512  
Delta R.T. -0.01 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

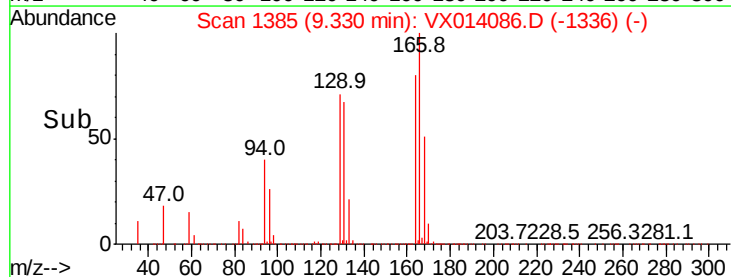
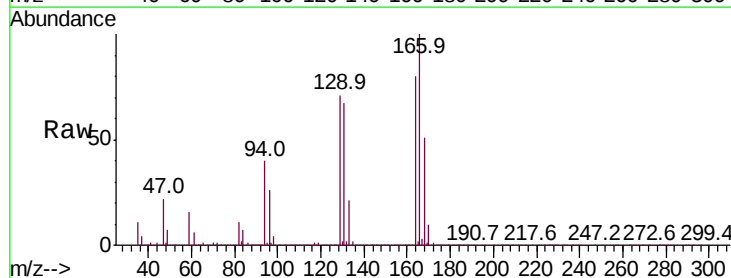
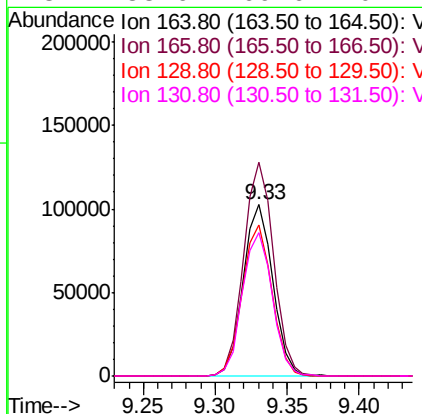
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1218WBS01

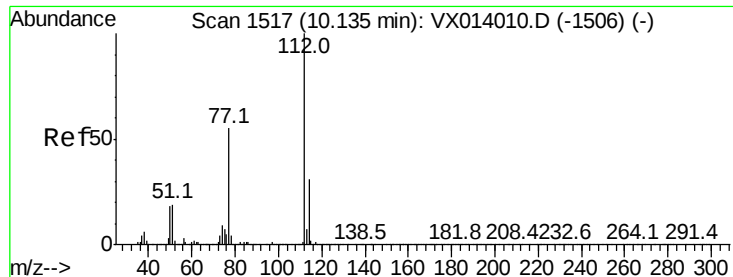
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 56.6  | 42.2  | 63.4  |
| 119     | 31.6  | 25.1  | 37.7  |



#64  
Tetrachloroethene  
Concen: 19.692 ug/l  
RT: 9.33 min Scan# 1385  
Delta R.T. -0.00 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 124.4 | 104.0 | 156.0 |
| 129     | 88.2  | 72.2  | 108.4 |
| 131     | 83.6  | 69.6  | 104.4 |





#65

Chlorobenzene

Concen: 20.411 ug/l

RT: 10.14 min Scan# 1517

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

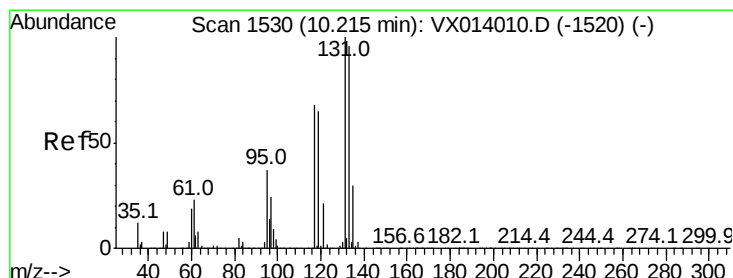
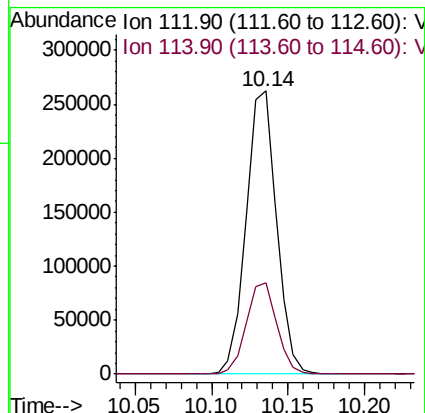
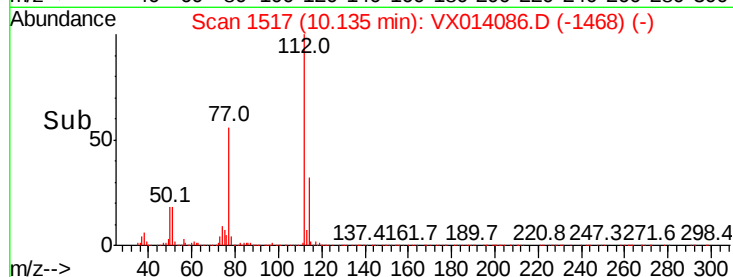
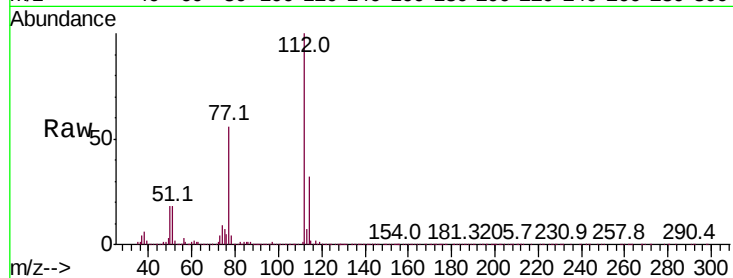
VX1218WBS01

Tot Ion:112 Resp: 362754

Ion Ratio Lower Upper

112 100

114 32.3 24.9 37.3



#66

1,1,1,2-Tetrachloroethane

Concen: 20.798 ug/l

RT: 10.21 min Scan# 1530

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

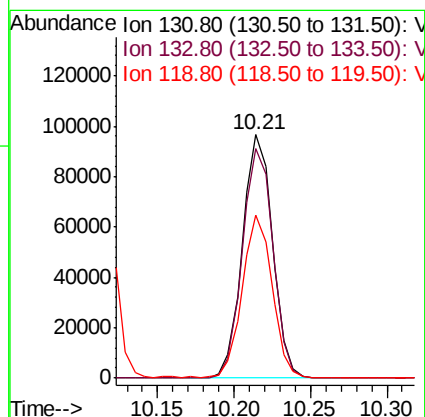
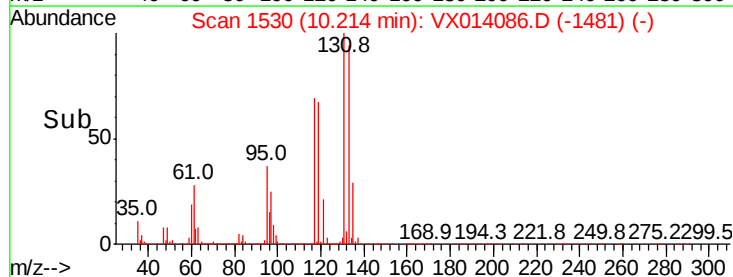
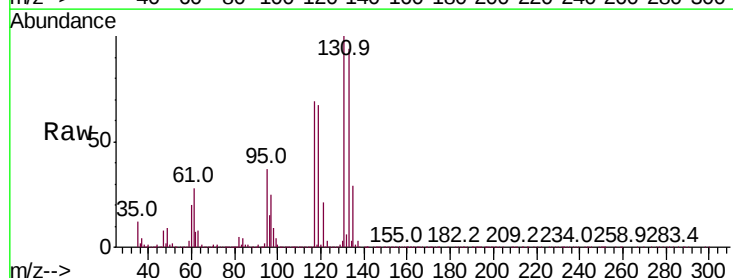
Tgt Ion:131 Resp: 131977

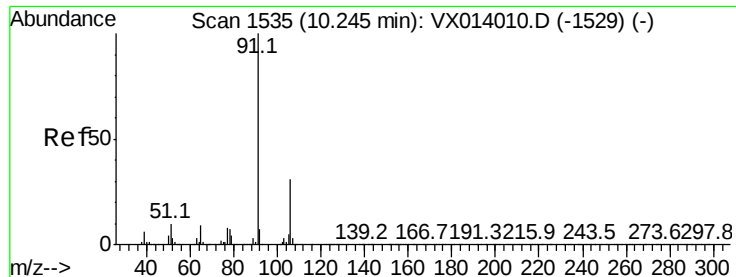
Ion Ratio Lower Upper

131 100

133 95.7 48.0 144.0

119 66.2 33.4 100.2





#67

Ethyl Benzene

Concen: 20.985 ug/l

RT: 10.24 min Scan# 1535

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

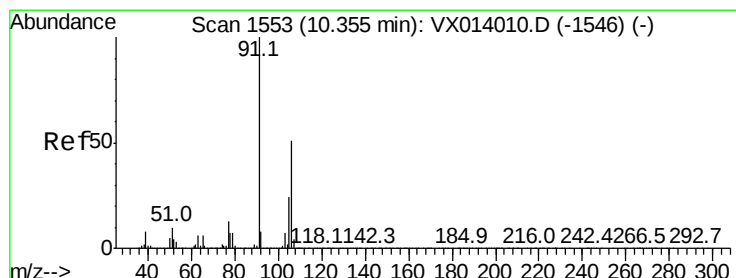
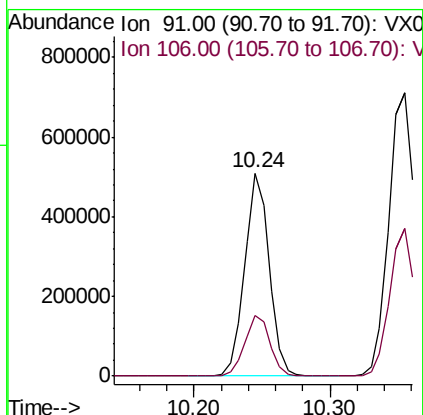
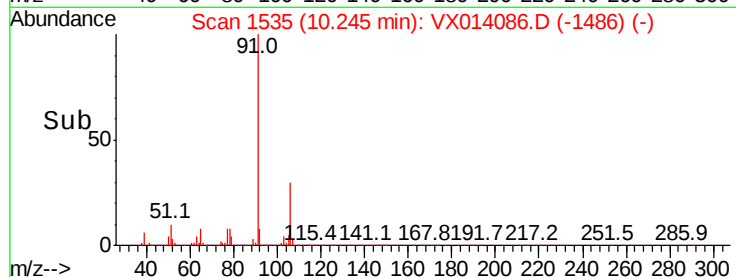
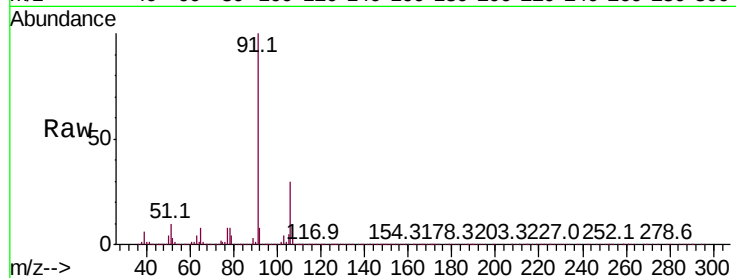
VX1218WBS01

Tot Ion: 91 Resp: 641197

Ion Ratio Lower Upper

91 100

106 30.1 25.0 37.6



#68

m/p-Xylenes

Concen: 41.590 ug/l

RT: 10.35 min Scan# 1553

Delta R.T. -0.00 min

Lab File: VX014086.D

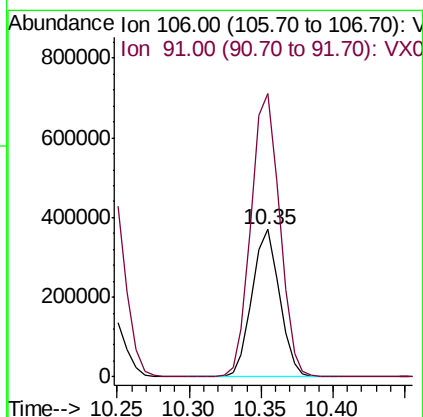
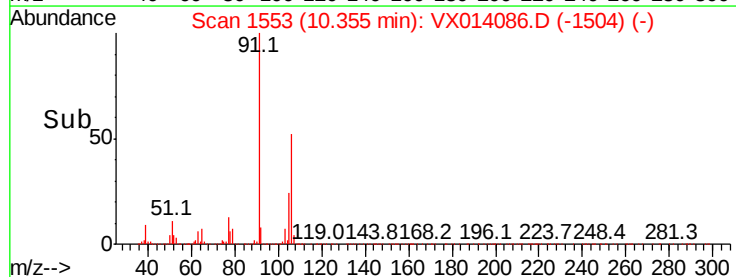
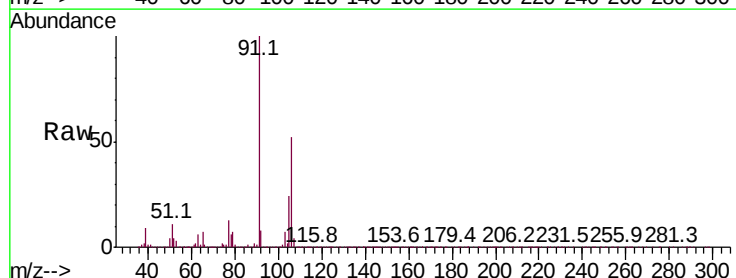
Acq: 18 Dec 2019 11:02

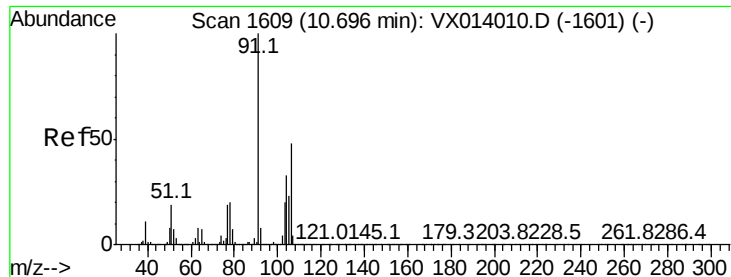
Tgt Ion: 106 Resp: 488755

Ion Ratio Lower Upper

106 100

91 199.8 158.6 238.0

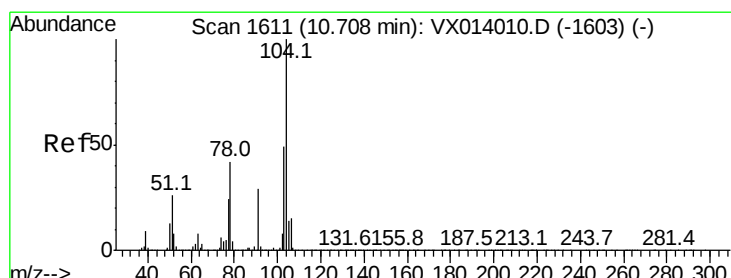
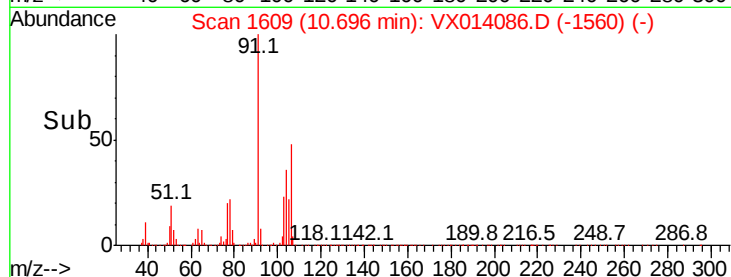
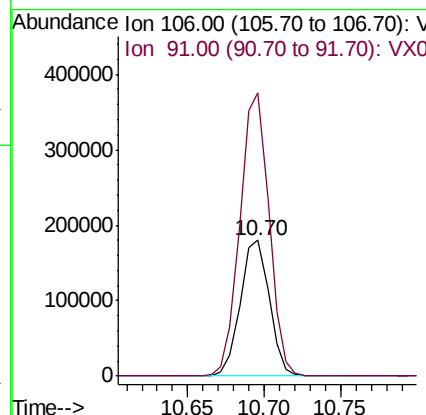
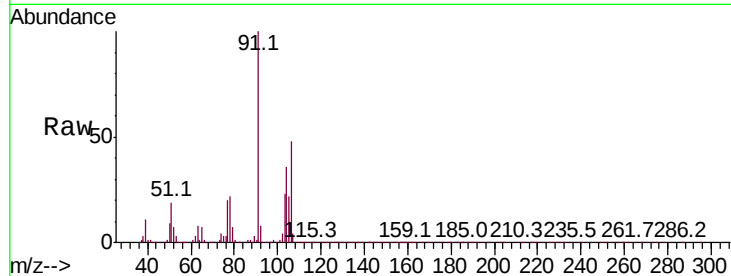




#69  
o-Xylene  
Concen: 20.505 ug/l  
RT: 10.70 min Scan# 1609  
Delta R.T. -0.00 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

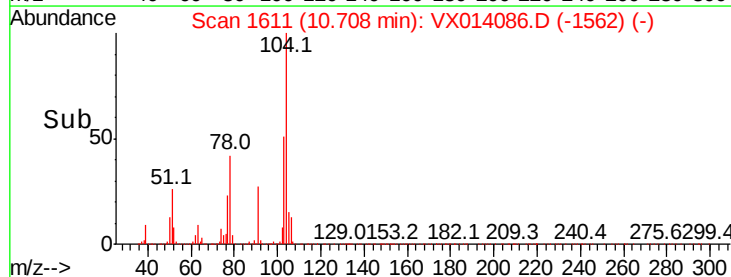
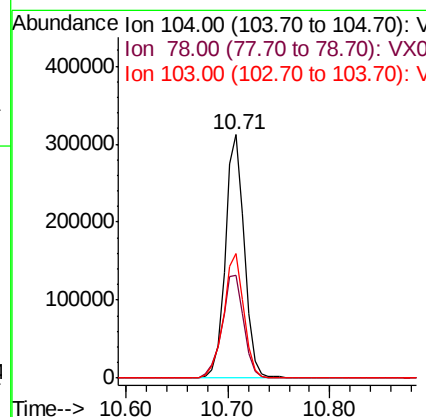
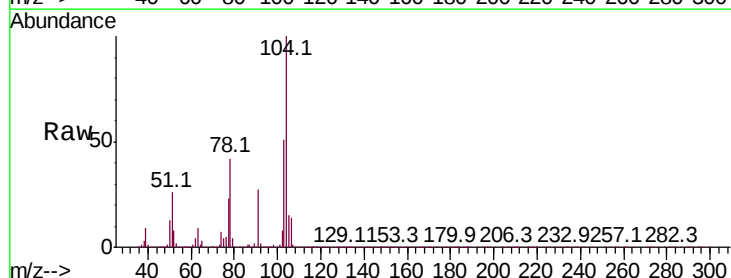
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1218WBS01

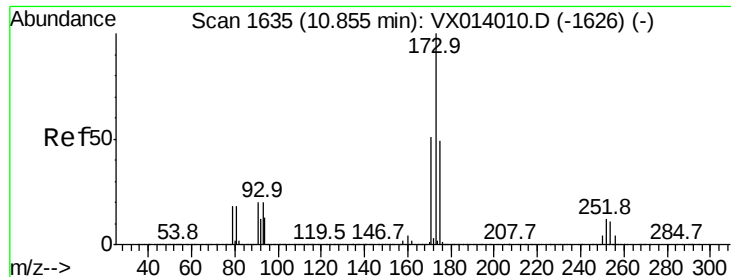
Tot Ion:106 Resp: 236335  
Ion Ratio Lower Upper  
106 100  
91 209.5 104.2 312.6



#70  
Styrene  
Concen: 20.788 ug/l  
RT: 10.71 min Scan# 1611  
Delta R.T. -0.00 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

Tgt Ion:104 Resp: 405148  
Ion Ratio Lower Upper  
104 100  
78 48.8 38.5 57.7  
103 55.0 42.9 64.3





#71

Bromoform

Concen: 19.799 ug/l

RT: 10.85 min Scan# 1635

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

VX1218WBS01

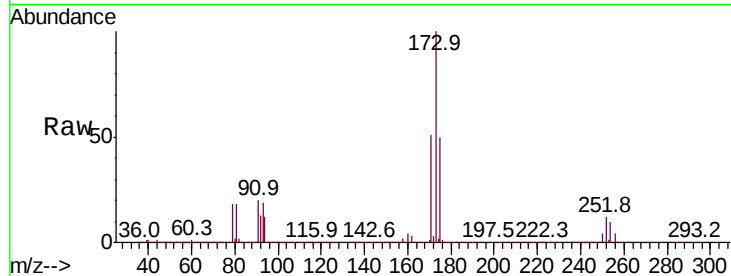
Tot Ion:173 Resp: 100991

Ion Ratio Lower Upper

173 100

175 48.7 24.4 73.4

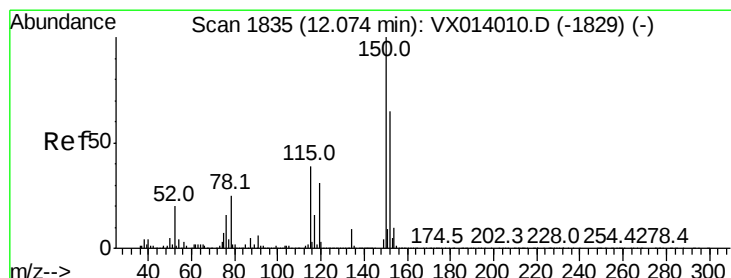
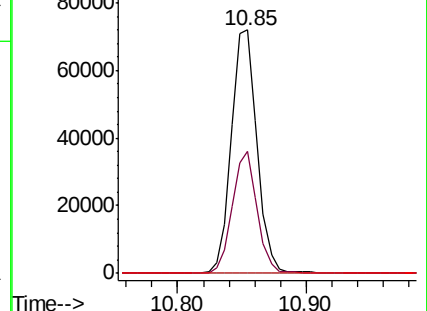
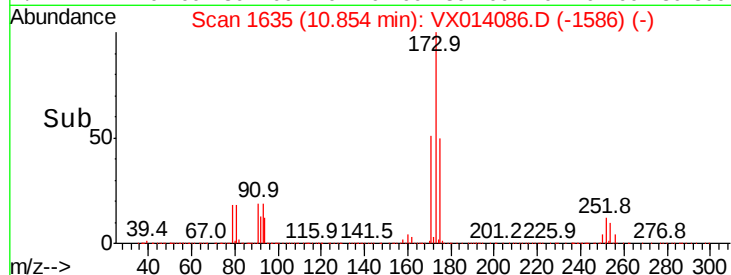
254 0.3 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

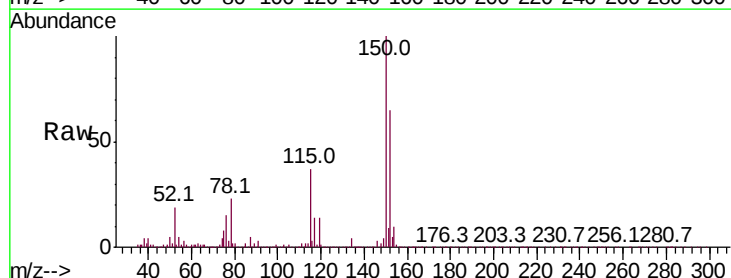
Tgt Ion:152 Resp: 421325

Ion Ratio Lower Upper

152 100

115 65.0 38.3 114.9

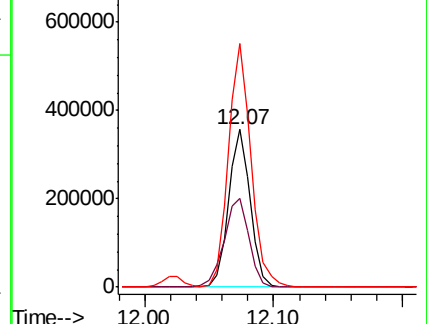
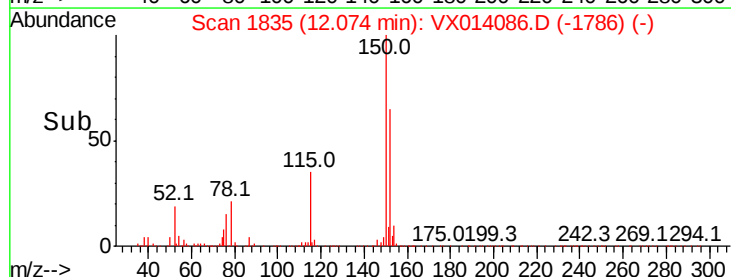
150 161.5 0.0 345.4

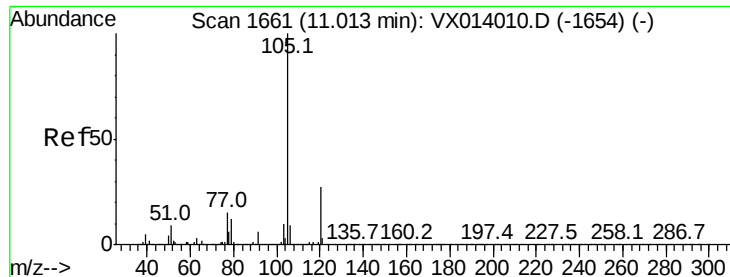


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.219 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampled :

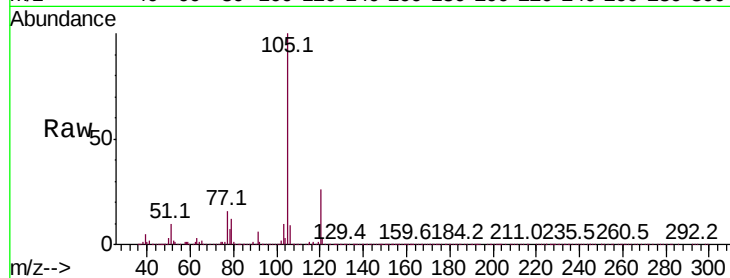
VX1218WBS01

Tot Ion:105 Resp: 629441

Ion Ratio Lower Upper

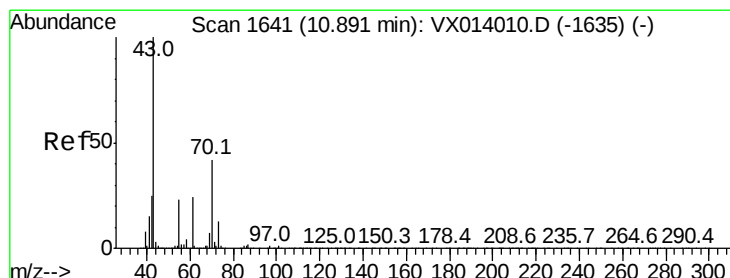
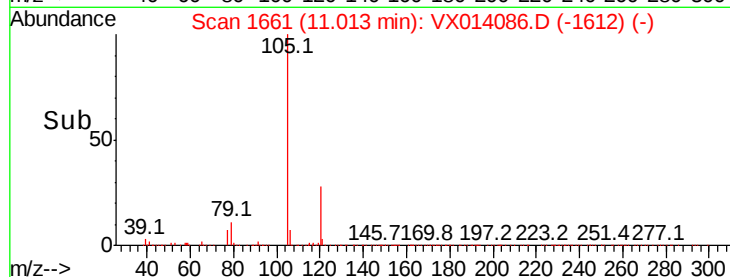
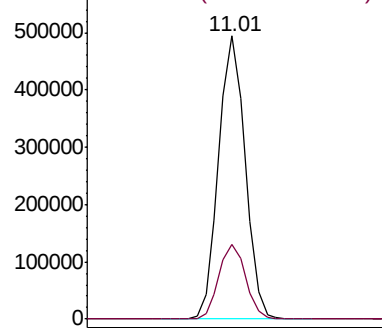
105 100

120 26.7 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 20.138 ug/l

RT: 10.89 min Scan# 1641

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Tgt Ion: 43 Resp: 280020

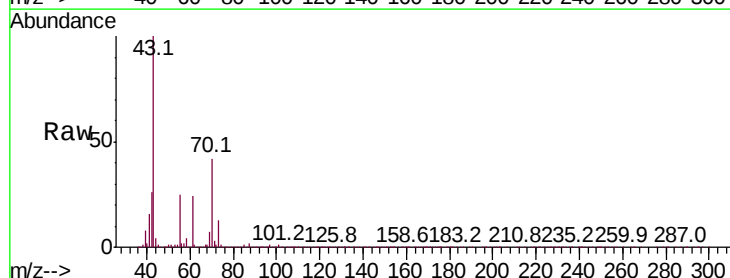
Ion Ratio Lower Upper

43 100

70 41.6 34.4 51.6

55 24.4 19.1 28.7

61 24.3 19.7 29.5

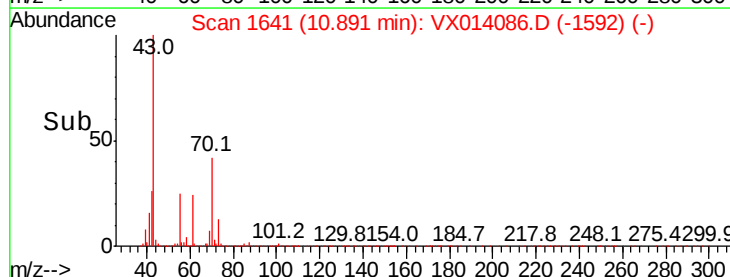
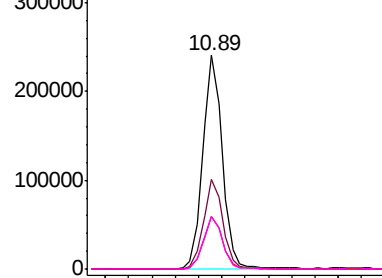


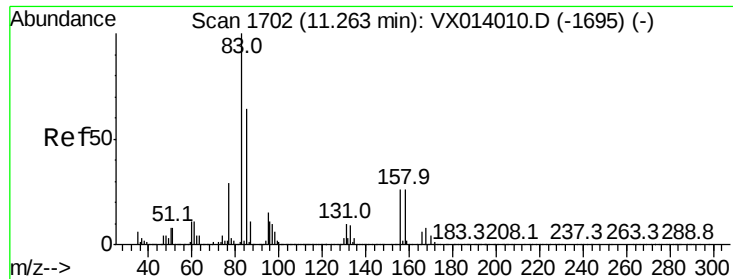
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#75

1,1,2,2-Tetrachloroethane

Concen: 20.533 ug/l

RT: 11.26 min Scan# 1702

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

VX1218WBS01

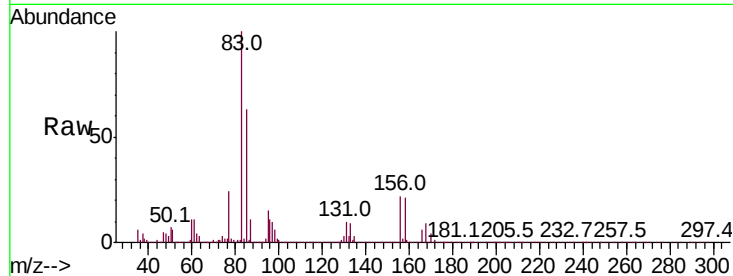
Tot Ion: 83 Resp: 211166

Ion Ratio Lower Upper

83 100

131 10.0 5.1 15.2

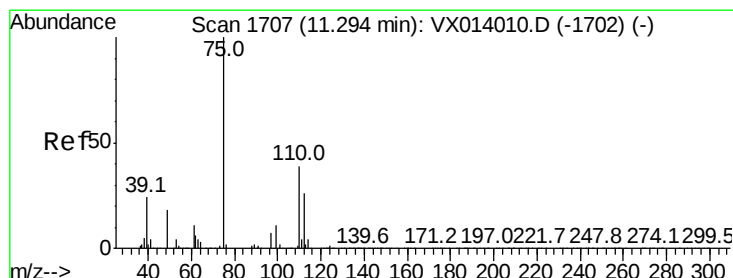
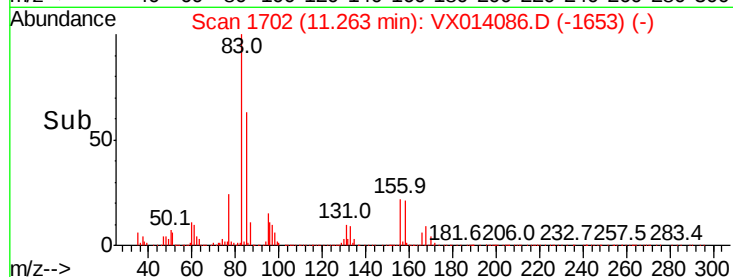
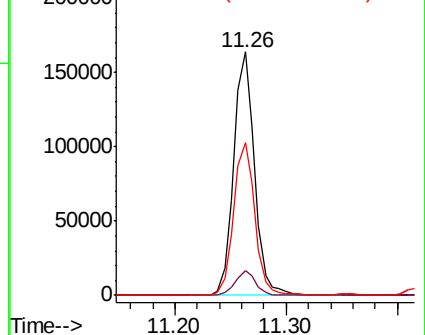
85 63.9 31.9 95.7



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 25.913 ug/l

RT: 11.29 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VX014086.D

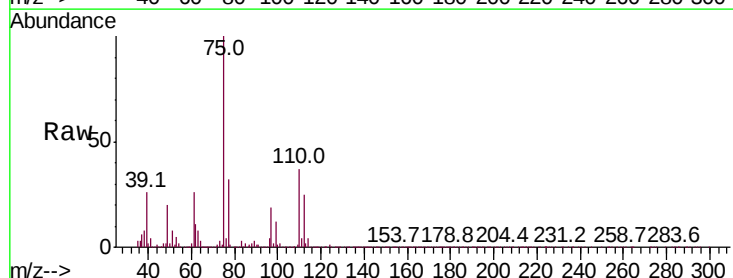
Acq: 18 Dec 2019 11:02

Tgt Ion: 75 Resp: 237023

Ion Ratio Lower Upper

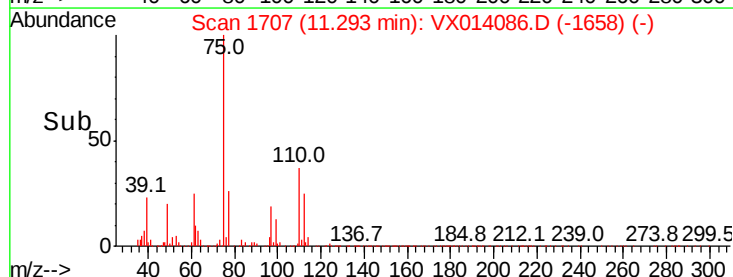
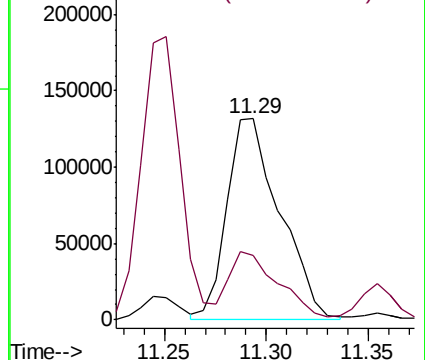
75 100

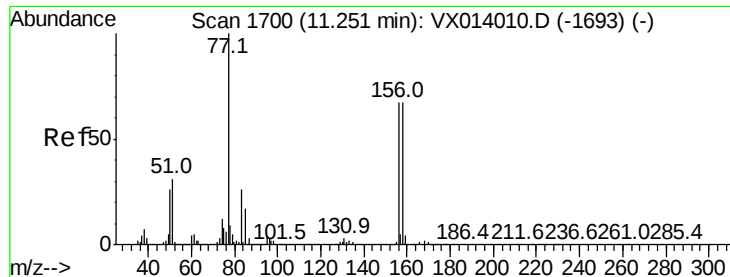
77 31.1 19.3 57.8



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#77

Bromobenzene

Concen: 20.064 ug/l

RT: 11.25 min Scan# 1700

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

VX1218WBS01

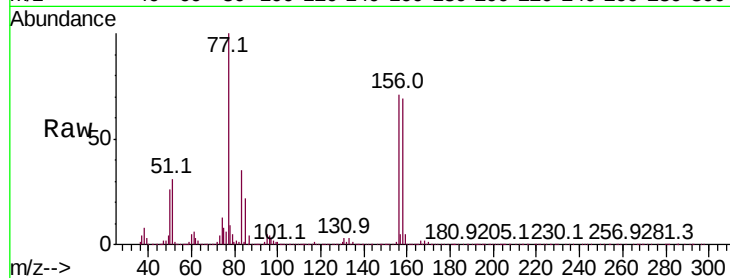
Tot Ion:156 Resp: 163758

Ion Ratio Lower Upper

156 100

77 151.3 76.5 229.5

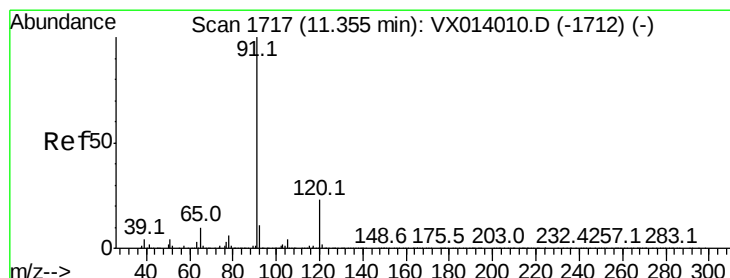
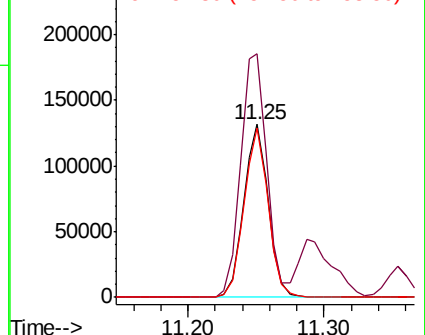
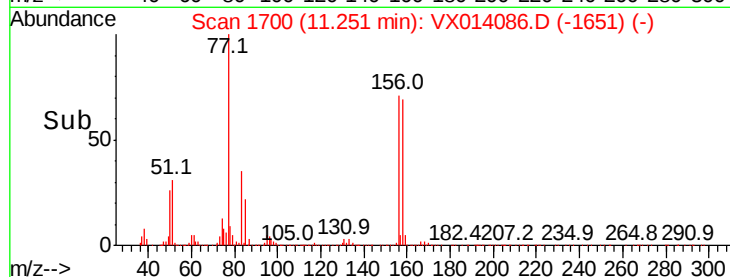
158 96.9 49.3 147.9



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.630 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. -0.00 min

Lab File: VX014086.D

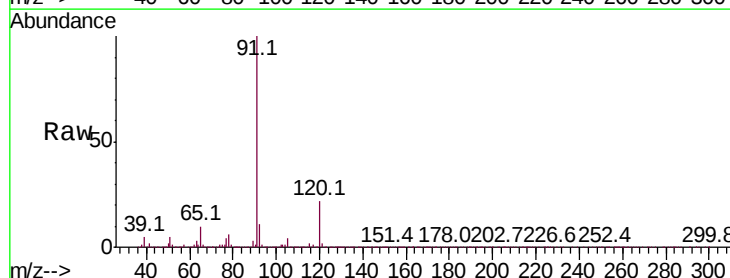
Acq: 18 Dec 2019 11:02

Tgt Ion: 91 Resp: 719707

Ion Ratio Lower Upper

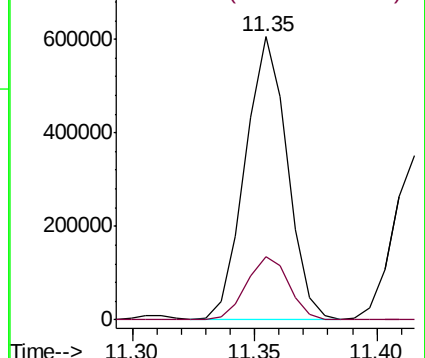
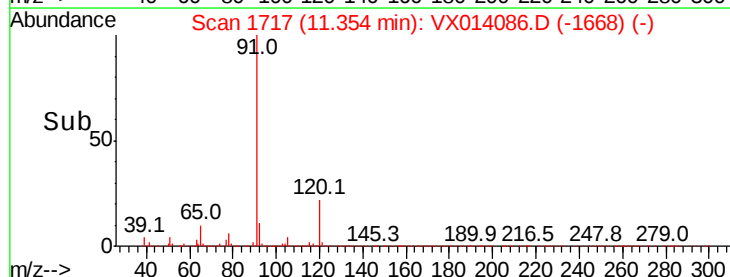
91 100

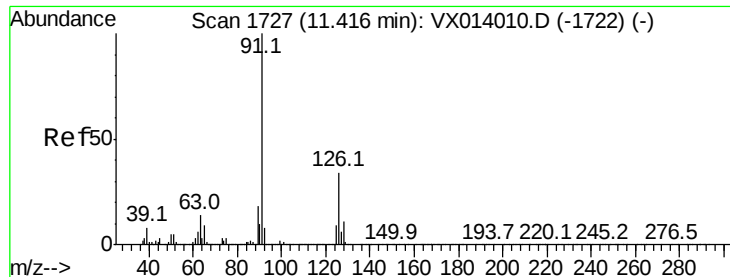
120 23.0 11.7 35.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

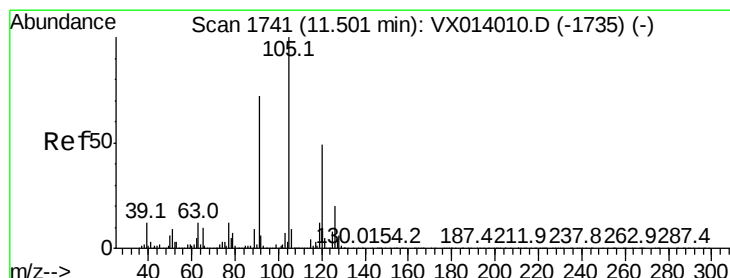
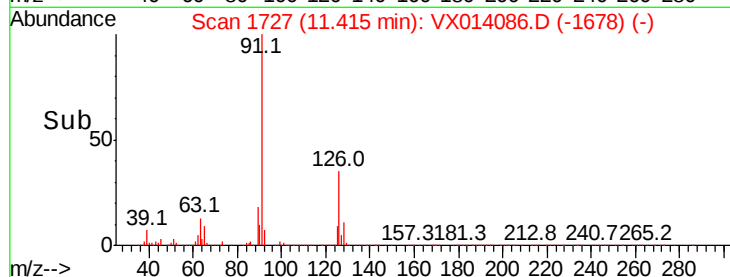
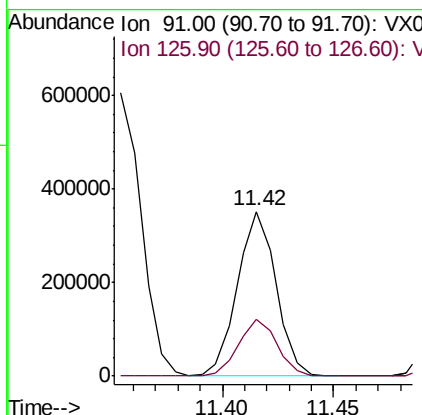
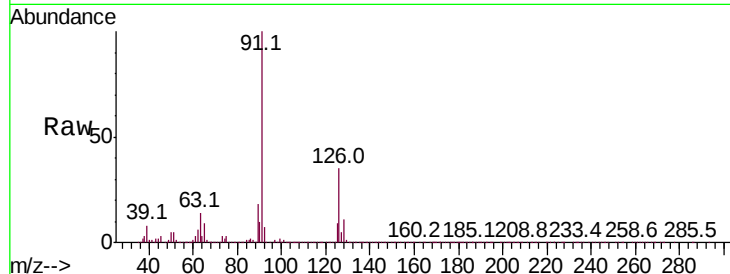




#79  
 2-Chlorotoluene  
 Concen: 20.955 ug/l  
 RT: 11.42 min Scan# 1727  
 Delta R.T. -0.00 min  
 Lab File: VX014086.D  
 Acq: 18 Dec 2019 11:02

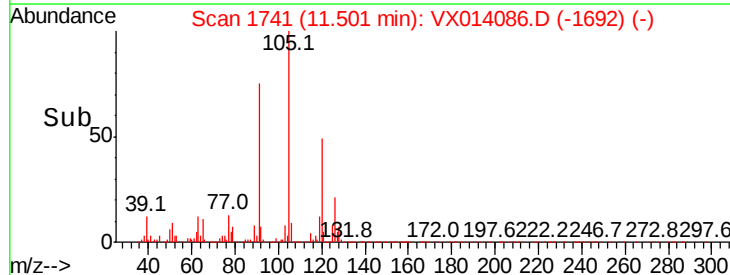
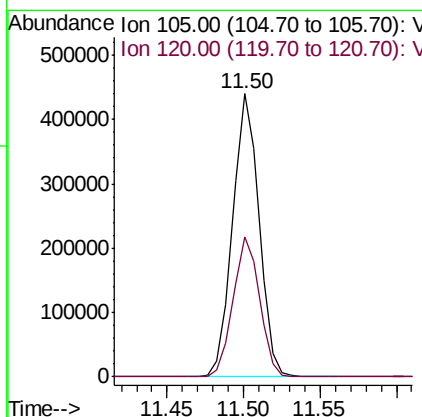
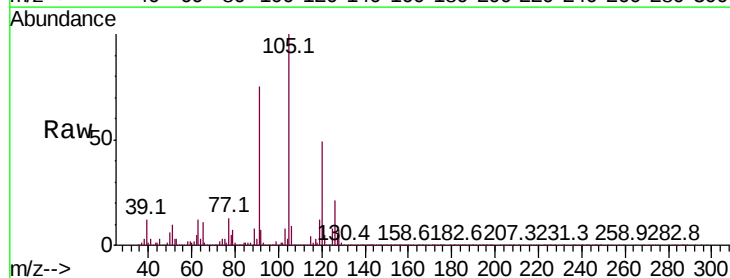
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1218WBS01

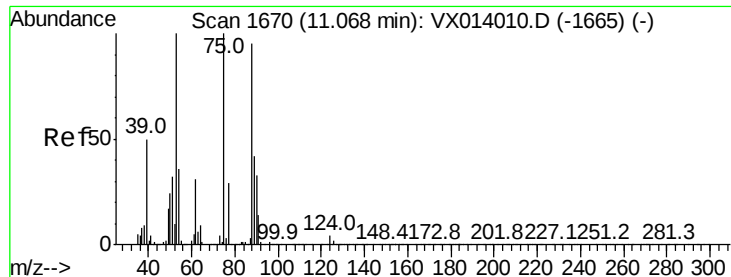
Tot Ion: 91 Resp: 423853  
 Ion Ratio Lower Upper  
 91 100  
 126 35.0 17.2 51.6



#80  
 1,3,5-Trimethylbenzene  
 Concen: 21.076 ug/l  
 RT: 11.50 min Scan# 1741  
 Delta R.T. -0.00 min  
 Lab File: VX014086.D  
 Acq: 18 Dec 2019 11:02

Tgt Ion: 105 Resp: 526185  
 Ion Ratio Lower Upper  
 105 100  
 120 49.7 25.3 75.8

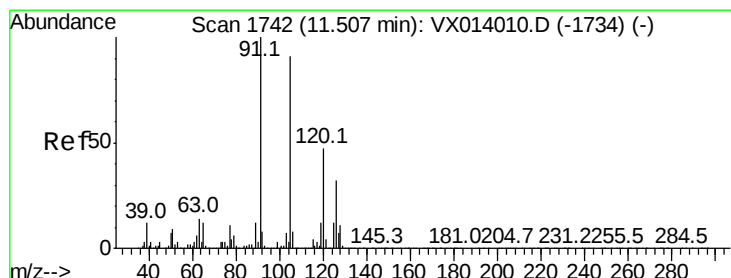
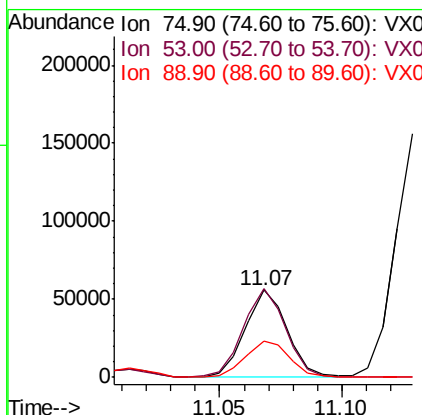
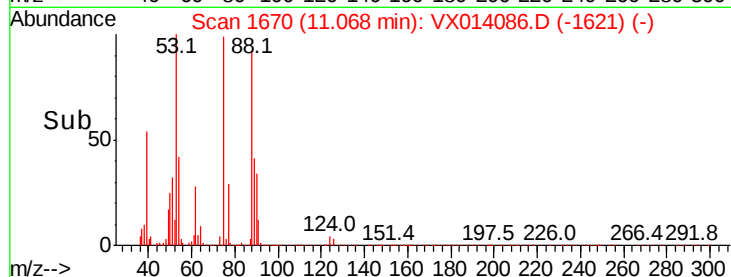
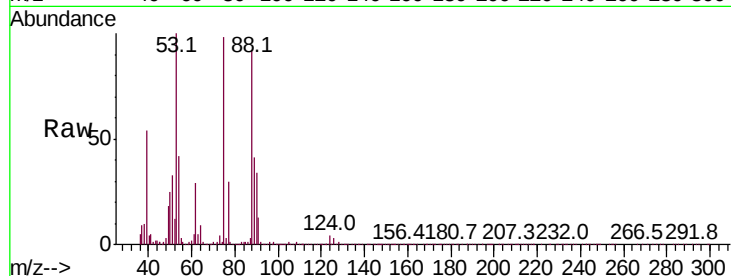




#81  
trans-1,4-Dichloro-2-butene  
Concen: 20.471 ug/l  
RT: 11.07 min Scan# 1670  
Delta R.T. -0.00 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

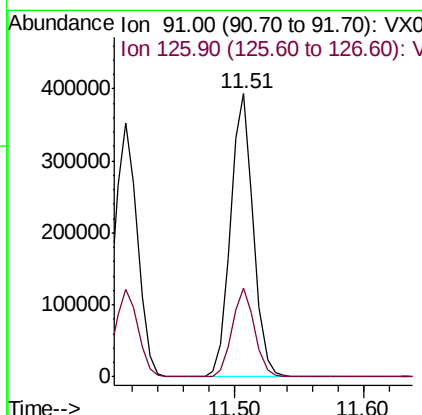
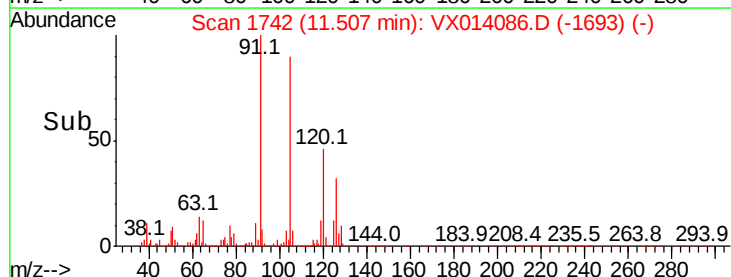
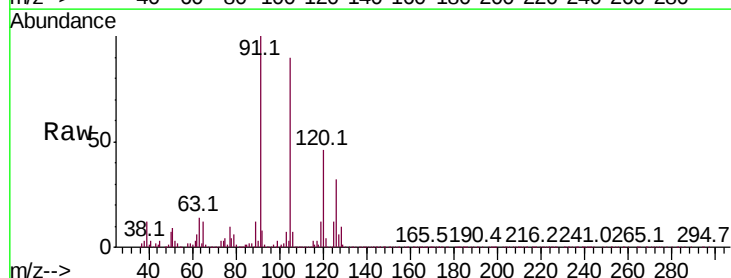
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1218WBS01

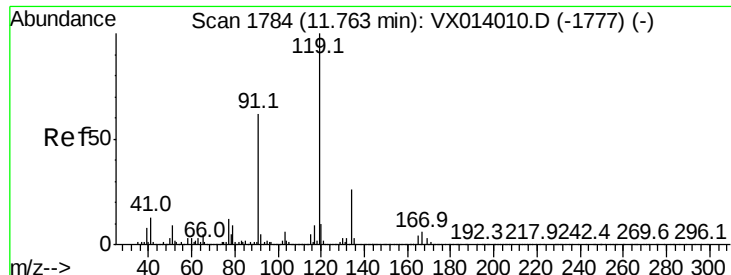
Tot Ion: 75 Resp: 66339  
Ion Ratio Lower Upper  
75 100  
53 105.1 76.7 115.1  
89 45.2 34.6 51.8



#82  
4-Chlorotoluene  
Concen: 20.653 ug/l  
RT: 11.51 min Scan# 1742  
Delta R.T. -0.00 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

Tgt Ion: 91 Resp: 484558  
Ion Ratio Lower Upper  
91 100  
126 30.8 15.6 46.8

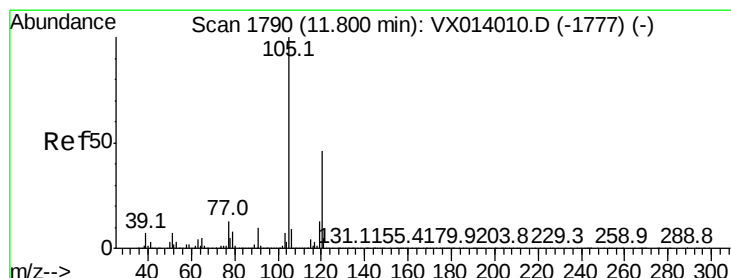
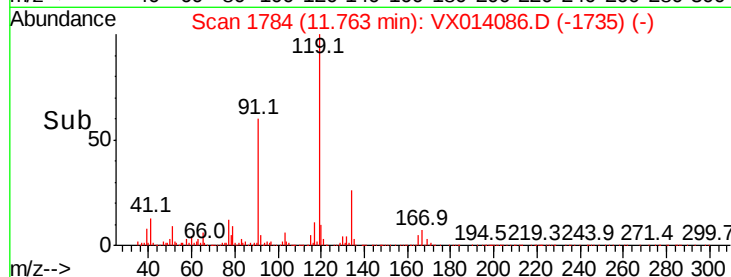
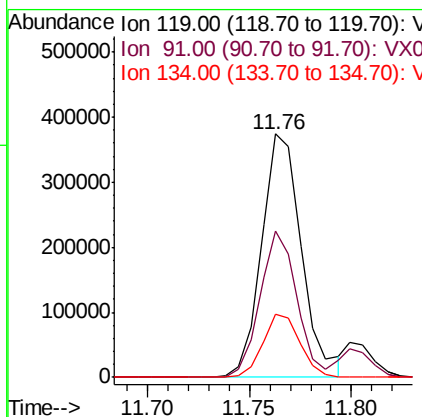
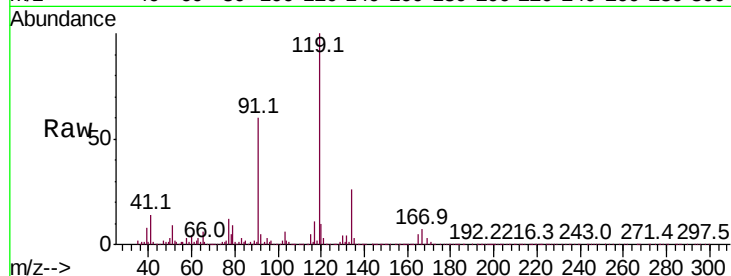




#83  
tert-Butylbenzene  
Concen: 21.004 ug/l  
RT: 11.76 min Scan# 1784  
Delta R.T. -0.00 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

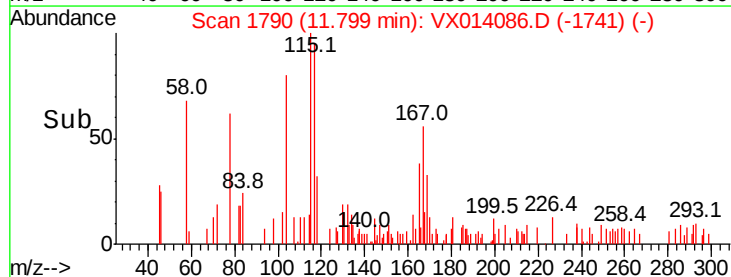
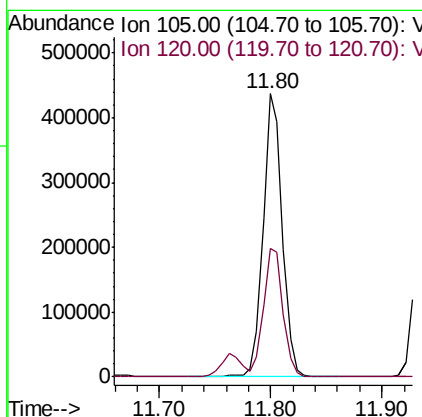
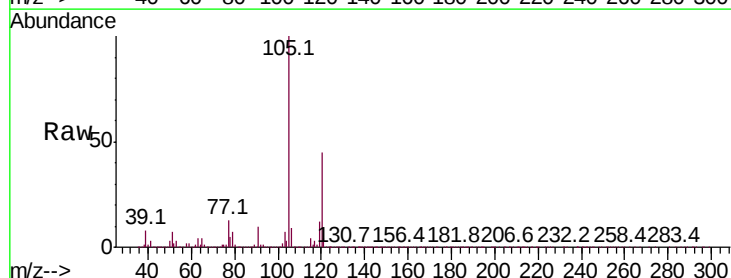
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1218WBS01

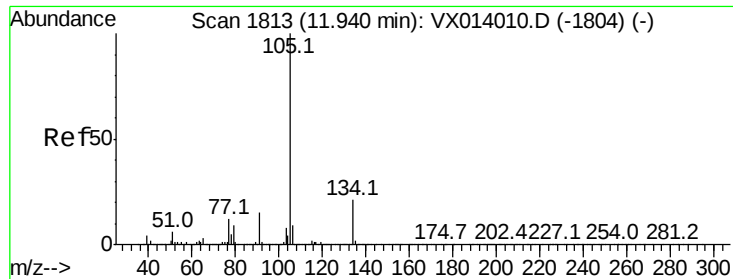
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 55.4  | 28.5  | 85.6  |
| 134     | 24.4  | 12.2  | 36.6  |



#84  
1,2,4-Trimethylbenzene  
Concen: 21.014 ug/l  
RT: 11.80 min Scan# 1790  
Delta R.T. -0.00 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 46.3  | 23.1  | 69.2  |

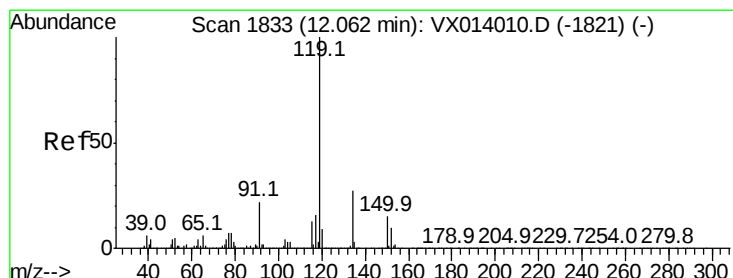
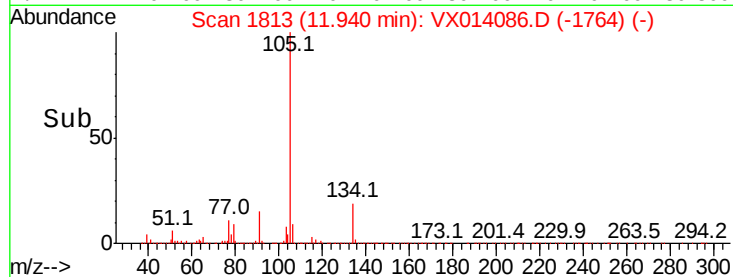
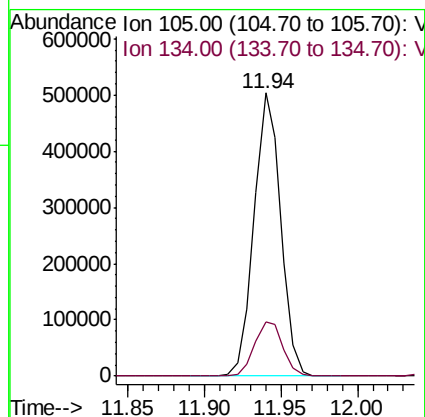
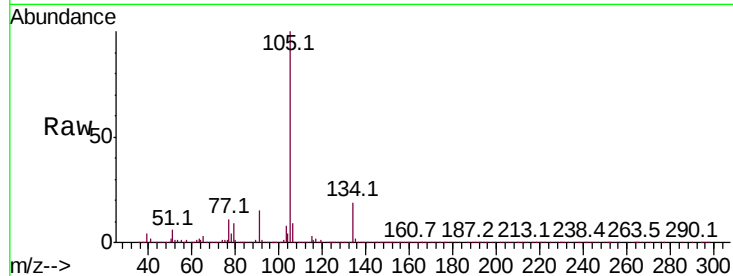




#85  
 sec-Butylbenzene  
 Concen: 21.271 ug/l  
 RT: 11.94 min Scan# 1813  
 Delta R.T. -0.00 min  
 Lab File: VX014086.D  
 Acq: 18 Dec 2019 11:02

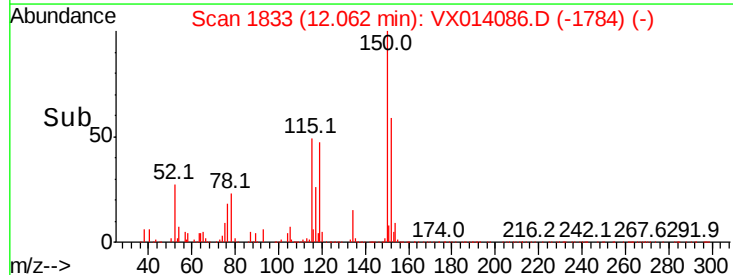
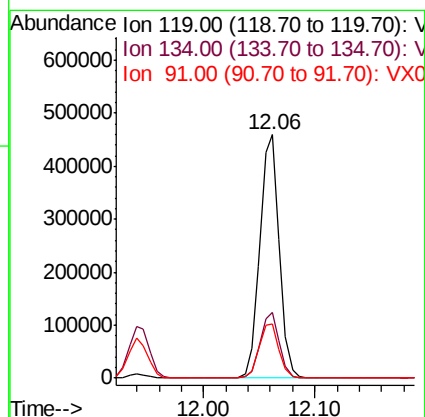
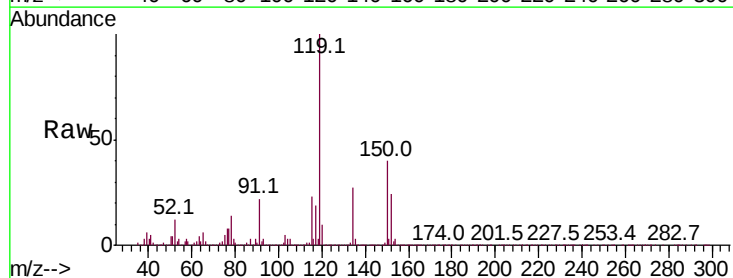
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1218WBS01

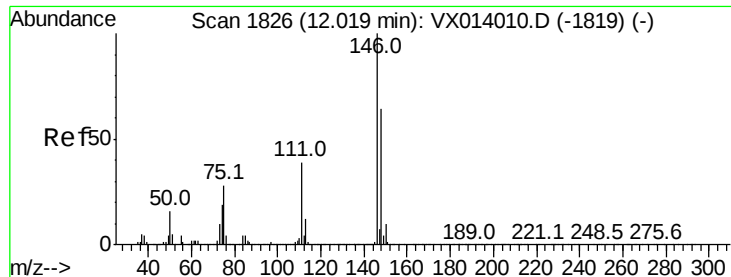
Tot Ion:105 Resp: 610084  
 Ion Ratio Lower Upper  
 105 100  
 134 20.5 10.4 31.1



#86  
 p-Isopropyltoluene  
 Concen: 21.236 ug/l  
 RT: 12.06 min Scan# 1833  
 Delta R.T. -0.00 min  
 Lab File: VX014086.D  
 Acq: 18 Dec 2019 11:02

Tgt Ion:119 Resp: 557144  
 Ion Ratio Lower Upper  
 119 100  
 134 26.7 13.4 40.1  
 91 22.8 11.4 34.1

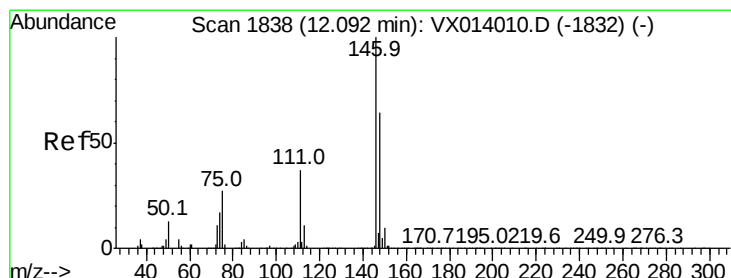
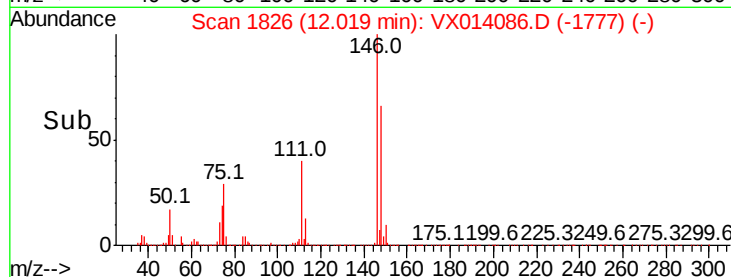
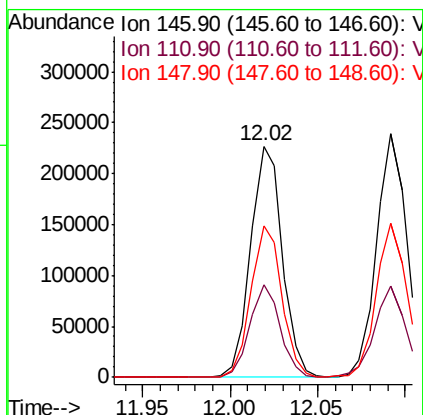
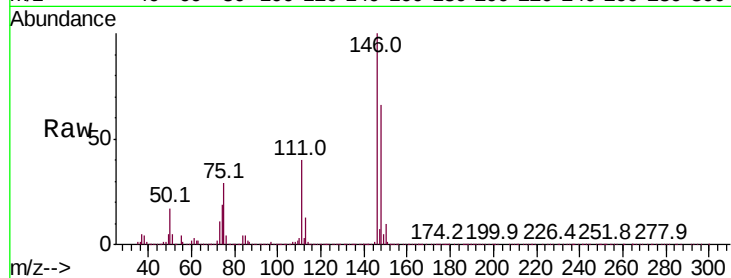




#87  
 1,3-Dichlorobenzene  
 Concen: 19.968 ug/l  
 RT: 12.02 min Scan# 1826  
 Delta R.T. -0.00 min  
 Lab File: VX014086.D  
 Acq: 18 Dec 2019 11:02

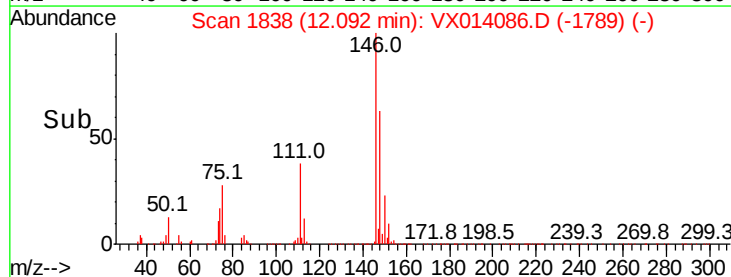
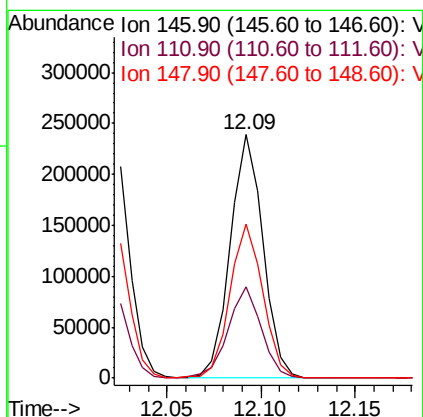
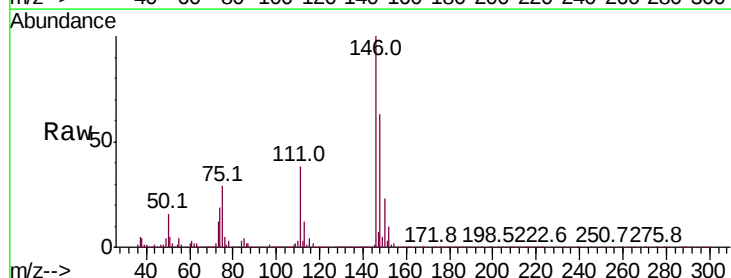
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1218WBS01

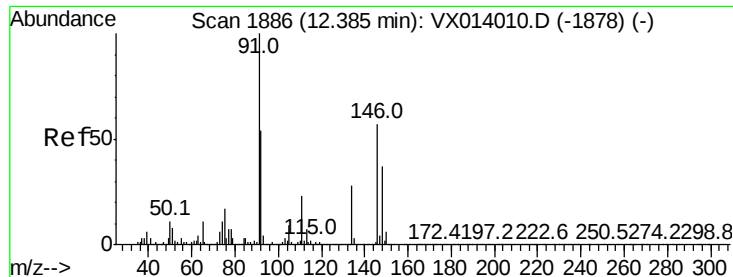
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.0  | 19.1  | 57.1  |
| 148     | 64.2  | 32.3  | 96.9  |



#88  
 1,4-Dichlorobenzene  
 Concen: 19.724 ug/l  
 RT: 12.09 min Scan# 1838  
 Delta R.T. -0.00 min  
 Lab File: VX014086.D  
 Acq: 18 Dec 2019 11:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.3  | 18.7  | 56.1  |
| 148     | 63.8  | 31.9  | 95.9  |





#89

n-Butylbenzene

Concen: 21.268 ug/l

RT: 12.38 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampled :

VX1218WBS01

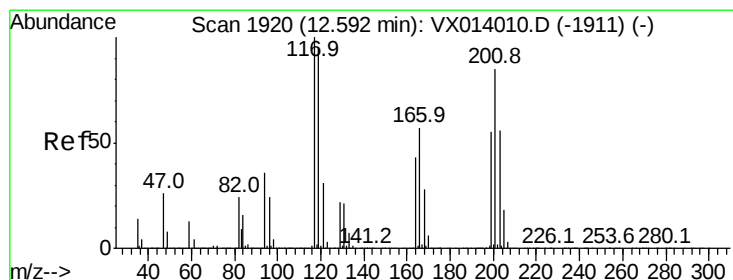
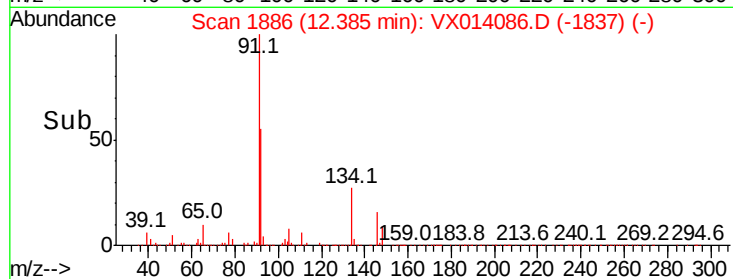
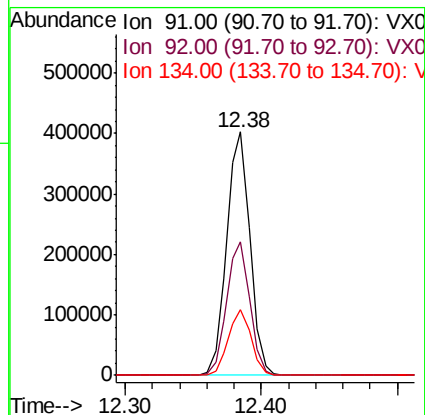
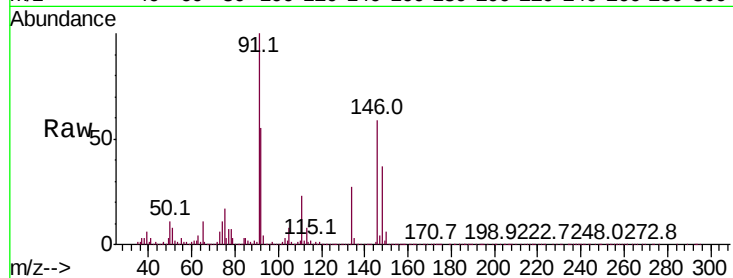
Tot Ion: 91 Resp: 476125

Ion Ratio Lower Upper

91 100

92 54.5 27.2 81.6

134 26.6 13.4 40.1



#90

Hexachloroethane

Concen: 20.283 ug/l

RT: 12.59 min Scan# 1920

Delta R.T. -0.00 min

Lab File: VX014086.D

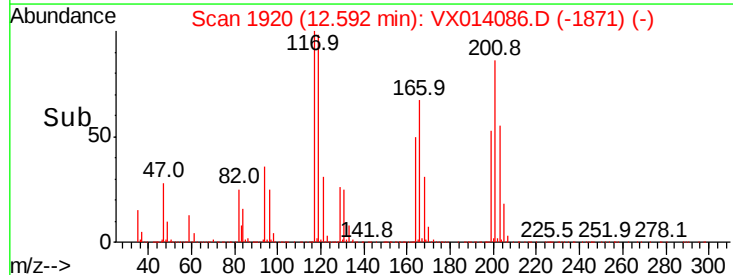
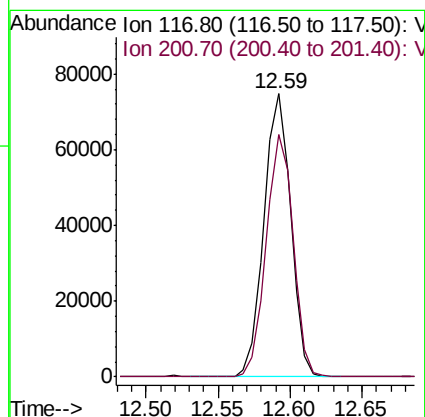
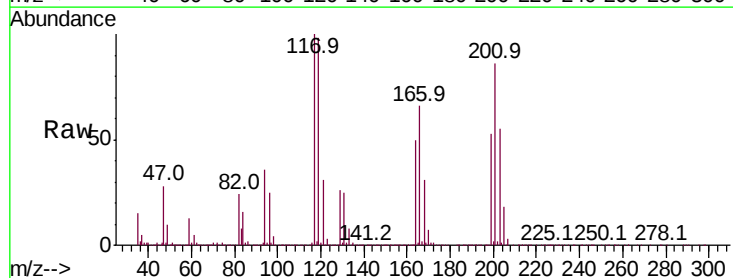
Acq: 18 Dec 2019 11:02

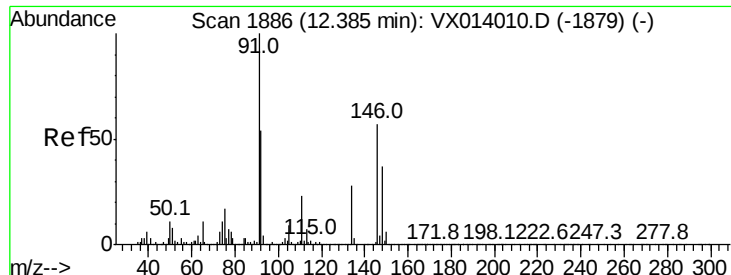
Tgt Ion: 117 Resp: 95585

Ion Ratio Lower Upper

117 100

201 86.9 43.1 129.3





#91

1,2-Dichlorobenzene

Concen: 20.006 ug/l

RT: 12.38 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

VX1218WBS01

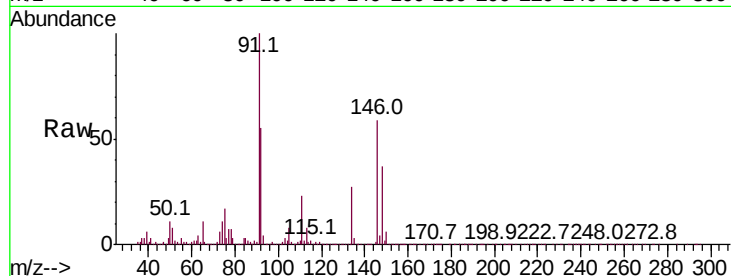
Tot Ion:146 Resp: 288075

Ion Ratio Lower Upper

146 100

111 38.8 19.7 59.1

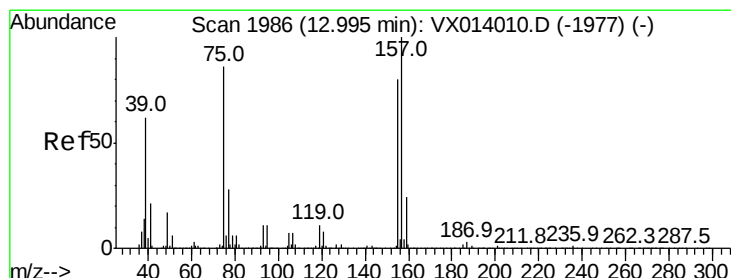
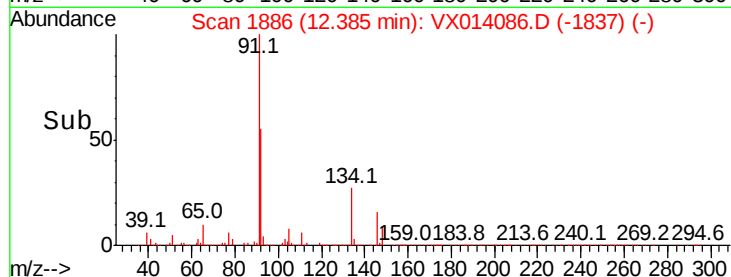
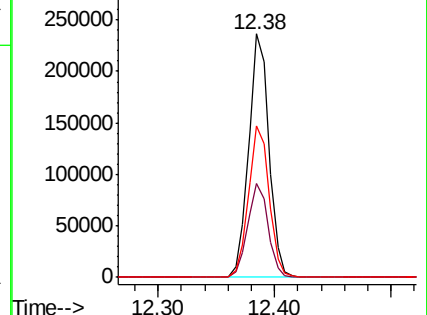
148 63.3 32.1 96.5



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 19.029 ug/l

RT: 12.99 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

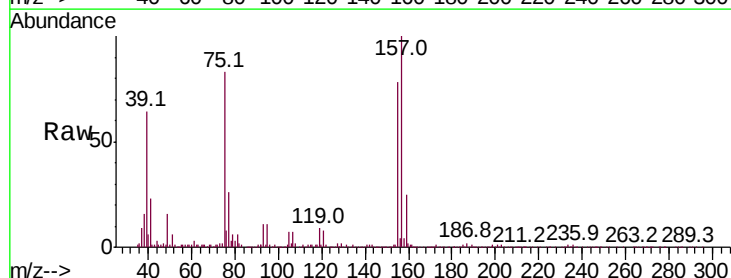
Tgt Ion: 75 Resp: 43307

Ion Ratio Lower Upper

75 100

155 93.3 46.9 140.6

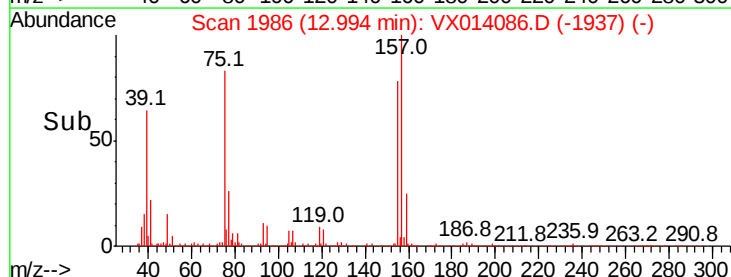
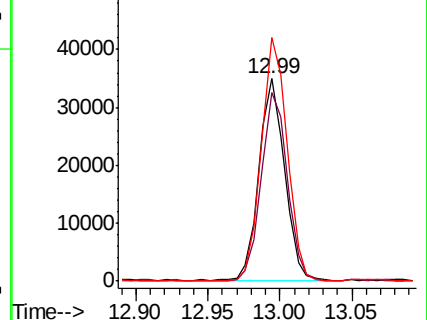
157 120.3 60.8 182.4

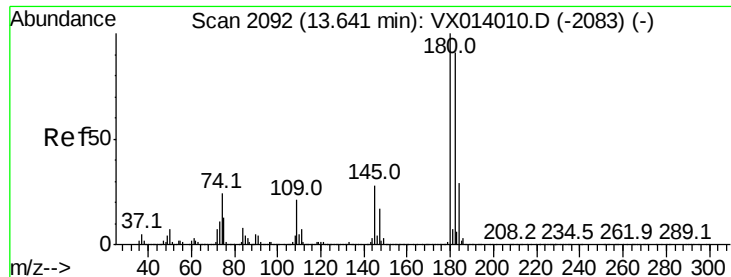


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#93

1,2,4-Trichlorobenzene

Concen: 19.606 ug/l

RT: 13.64 min Scan# 2092

Delta R.T. -0.00 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

Instrument :

MSVOA\_X

ClientSampleId :

VX1218WBS01

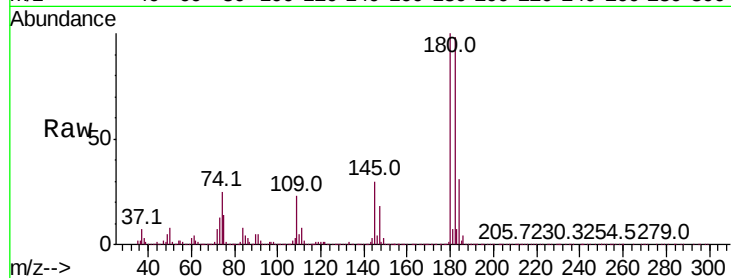
Tot Ion:180 Resp: 183493

Ion Ratio Lower Upper

180 100

182 98.2 46.6 139.8

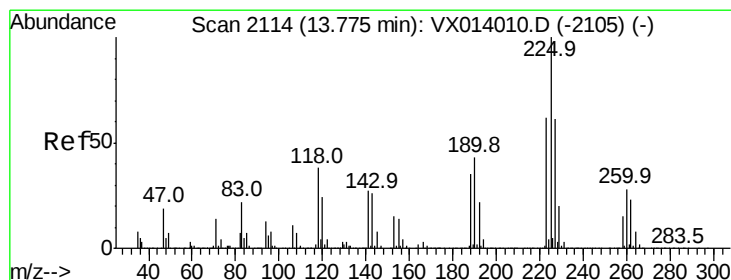
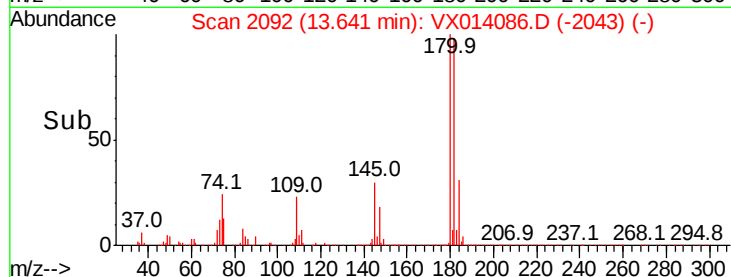
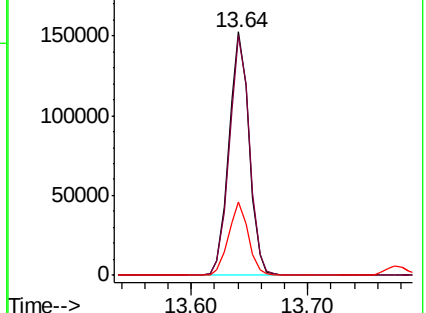
145 29.5 14.2 42.6



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 20.507 ug/l

RT: 13.78 min Scan# 2115

Delta R.T. 0.01 min

Lab File: VX014086.D

Acq: 18 Dec 2019 11:02

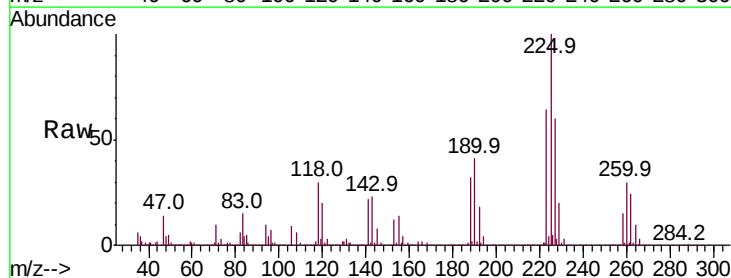
Tgt Ion:225 Resp: 92239

Ion Ratio Lower Upper

225 100

223 64.0 30.9 92.5

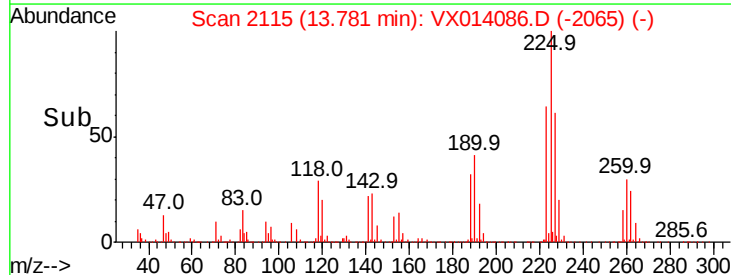
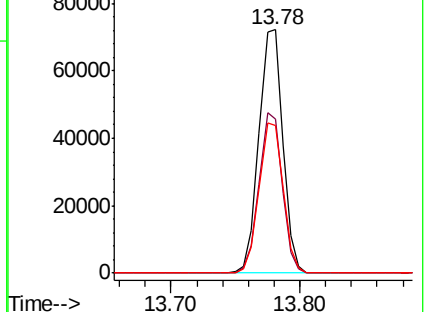
227 62.2 30.9 92.7

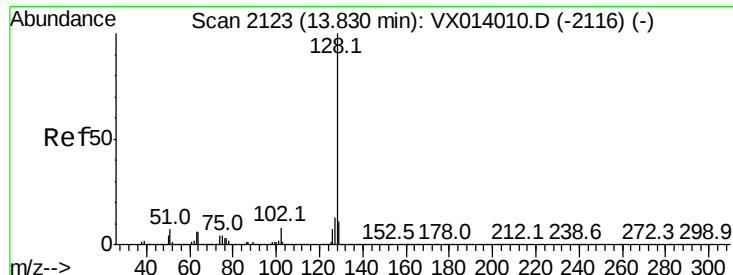


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

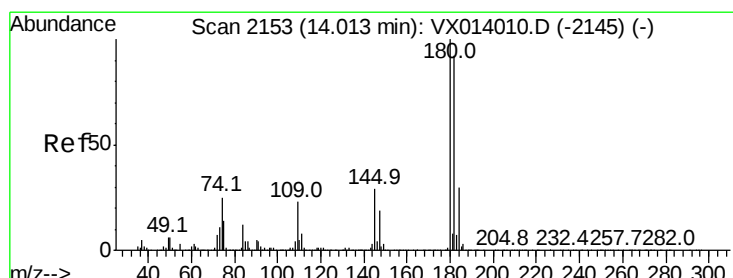
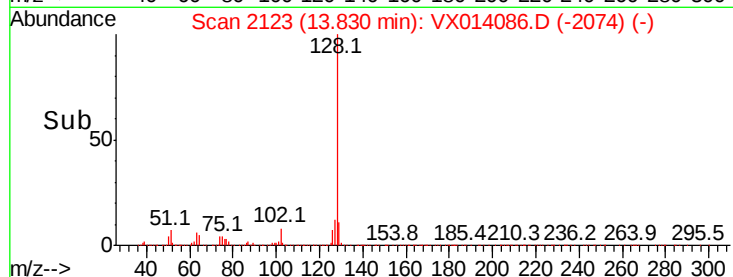
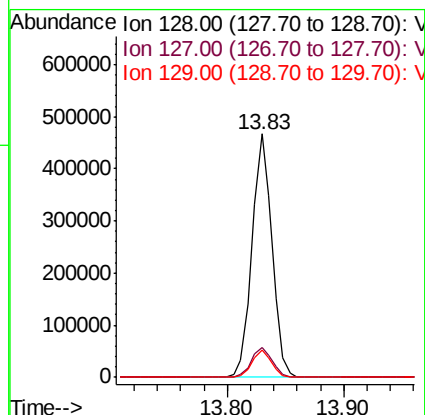
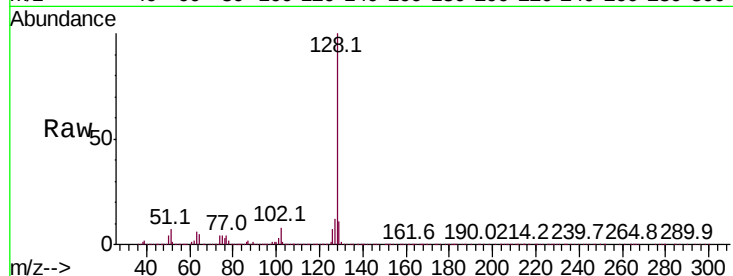




#95  
Naphthalene  
Concen: 20.378 ug/l  
RT: 13.83 min Scan# 2123  
Delta R.T. -0.00 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1218WBS01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.8  | 10.2  | 15.4  |
| 129     | 11.1  | 8.7   | 13.1  |



#96  
1,2,3-Trichlorobenzene  
Concen: 20.720 ug/l  
RT: 14.01 min Scan# 2153  
Delta R.T. -0.00 min  
Lab File: VX014086.D  
Acq: 18 Dec 2019 11:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 91.5  | 46.8  | 140.3 |
| 145     | 29.4  | 14.8  | 44.4  |

