

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040220\  
 Data File : VN060838.D  
 Acq On : 2 Apr 2020 21:36  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Apr 03 07:47:17 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N031820W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 18 08:49:09 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 183848   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 309411   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 286028   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 141766   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.00   | 65  | 130798   | 51.83 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.66% |      |
| 35) Dibromofluoromethane  | 7.57   | 113 | 99847    | 53.37 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.74% |      |
| 50) Toluene-d8            | 10.08  | 98  | 392885   | 51.41 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.82% |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 148421   | 52.99 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.98% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 82326   | 46.279  | ug/l | 100    |
| 3) Chloromethane              | 2.04 | 50  | 147426  | 44.374  | ug/l | 99     |
| 4) Vinyl Chloride             | 2.17 | 62  | 116495  | 44.829  | ug/l | 98     |
| 5) Bromomethane               | 2.54 | 94  | 55595   | 49.559  | ug/l | 98     |
| 6) Chloroethane               | 2.68 | 64  | 73171   | 48.881  | ug/l | 100    |
| 7) Trichlorofluoromethane     | 3.00 | 101 | 154493  | 48.262  | ug/l | 97     |
| 8) Diethyl Ether              | 3.38 | 74  | 66346   | 51.593  | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.74 | 101 | 92219   | 49.717  | ug/l | 99     |
| 10) Methyl Iodide             | 3.93 | 142 | 76232   | 46.187  | ug/l | 100    |
| 11) Tert butyl alcohol        | 4.72 | 59  | 100584  | 270.989 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 3.72 | 96  | 94800   | 47.626  | ug/l | 98     |
| 13) Acrolein                  | 3.57 | 56  | 104976  | 255.186 | ug/l | 100    |
| 14) Allyl chloride            | 4.29 | 41  | 171957  | 49.118  | ug/l | 97     |
| 15) Acrylonitrile             | 4.94 | 53  | 303077  | 277.678 | ug/l | 99     |
| 16) Acetone                   | 3.78 | 43  | 240149  | 268.627 | ug/l | 99     |
| 17) Carbon Disulfide          | 4.03 | 76  | 263707  | 43.561  | ug/l | 100    |
| 18) Methyl Acetate            | 4.28 | 43  | 143048  | 56.848  | ug/l | 100    |
| 19) Methyl tert-butyl Ether   | 5.00 | 73  | 341607  | 49.916  | ug/l | 98     |
| 20) Methylene Chloride        | 4.52 | 84  | 109693  | 49.879  | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 5.01 | 96  | 101152  | 47.681  | ug/l | 95     |
| 22) Diisopropyl ether         | 5.91 | 45  | 390593  | 52.810  | ug/l | 96     |
| 23) Vinyl Acetate             | 5.86 | 43  | 1628710 | 269.890 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 5.82 | 63  | 204538  | 50.728  | ug/l | 99     |
| 25) 2-Butanone                | 6.80 | 43  | 402543  | 278.264 | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 6.79 | 77  | 147743  | 46.572  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 6.80 | 96  | 118688  | 49.233  | ug/l | 99     |
| 28) Bromochloromethane        | 7.17 | 49  | 100442  | 52.067  | ug/l | 98     |
| 29) Tetrahydrofuran           | 7.18 | 42  | 276150  | 269.798 | ug/l | 98     |
| 30) Chloroform                | 7.35 | 83  | 194706  | 50.372  | ug/l | 98     |
| 31) Cyclohexane               | 7.63 | 56  | 190269  | 46.808  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 7.55 | 97  | 167226  | 50.185  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 7.77 | 75  | 148913  | 49.703  | ug/l | 100    |
| 37) Ethyl Acetate             | 6.89 | 43  | 169995  | 52.511  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 7.75 | 117 | 134130  | 49.951  | ug/l | 99     |

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 MSVOA\_N  
 ClientSampleId :

Quant Time: Apr 03 07:47:17 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N031820W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 18 08:49:09 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.07  | 83   | 177313   | 49.801   | ug/l   | 98       |
| 40) Benzene                    | 8.02  | 78   | 449358   | 49.684   | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.18  | 41   | 245848   | 177.946  | ug/l # | 100      |
| 42) 1,2-Dichloroethane         | 8.10  | 62   | 157810   | 51.056   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.14  | 43   | 285038   | 53.388   | ug/l   | 99       |
| 44) Trichloroethene            | 8.82  | 130  | 112975   | 49.551   | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.10  | 63   | 124393   | 52.123   | ug/l   | 98       |
| 46) Dibromomethane             | 9.19  | 93   | 73974    | 51.271   | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.39  | 83   | 155926   | 52.008   | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.18  | 41   | 126022   | 53.016   | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.18  | 88   | 32461    | 1148.899 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 9.97  | 43   | 851973   | 280.430  | ug/l   | 99       |
| 52) Toluene                    | 10.14 | 92   | 273365   | 50.047   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.37 | 75   | 176690   | 51.305   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 9.82  | 75   | 189951   | 50.277   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.55 | 97   | 108083   | 51.434   | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.42 | 69   | 177841   | 54.277   | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.70 | 76   | 190675   | 52.289   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.68  | 63   | 408368   | 250.767  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.74 | 43   | 618677   | 282.695  | ug/l   | 100      |
| 60) Dibromochloromethane       | 10.89 | 129  | 113502   | 52.290   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 10.99 | 107  | 109750   | 51.939   | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.62 | 164  | 103497   | 45.982   | ug/l   | 98       |
| 65) Chlorobenzene              | 11.43 | 112  | 279526   | 49.297   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.50 | 131  | 104567   | 50.934   | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.50 | 91   | 529907   | 50.254   | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.62 | 106  | 388454   | 99.135   | ug/l   | 99       |
| 69) o-Xylene                   | 11.94 | 106  | 187084   | 50.014   | ug/l   | 98       |
| 70) Styrene                    | 11.96 | 104  | 312480   | 51.077   | ug/l   | 99       |
| 71) Bromoform                  | 12.12 | 173  | 83883    | 49.189   | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.24 | 105  | 506650   | 47.622   | ug/l   | 99       |
| 74) N-amyl acetate             | 12.06 | 43   | 248404   | 50.528   | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 161516   | 50.202   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 217847   | 71.215   | ug/l # | 100      |
| 77) Bromobenzene               | 12.52 | 156  | 120835   | 47.134   | ug/l   | 100      |
| 78) n-propylbenzene            | 12.59 | 91   | 601892   | 47.886   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.67 | 91   | 355685   | 47.361   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 427934   | 47.398   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.29 | 75   | 56723    | 47.624   | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 364431   | 47.644   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 360953   | 48.228   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 431524   | 48.312   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.17 | 105  | 496573   | 49.340   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.28 | 119  | 444447   | 49.110   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 217532   | 48.111   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 219838   | 48.394   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.61 | 91   | 411521   | 50.364   | ug/l   | 100      |
| 90) Hexachloroethane           | 13.87 | 117  | 69837    | 53.088   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 215026   | 49.735   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.26 | 75   | 33338    | 49.469   | ug/l   | 98       |

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Sample : VSTDCCC050  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 27 Sample Multiplier: 1

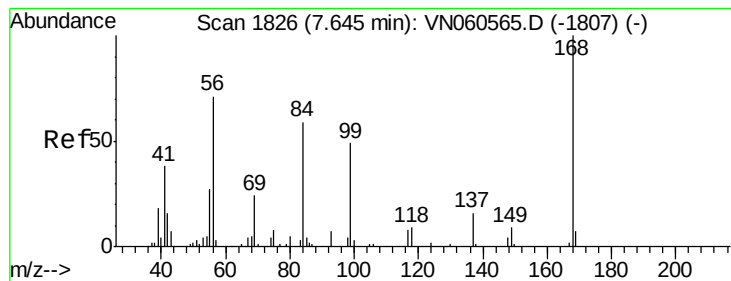
Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Apr 03 07:47:17 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N031820W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 18 08:49:09 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 134715   | 50.740 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 66368    | 50.992 | ug/l  | 99       |
| 95) Naphthalene            | 15.13 | 128  | 391950   | 49.082 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.31 | 180  | 128287   | 49.056 | ug/l  | 99       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

Instrument :

MSVOA\_N

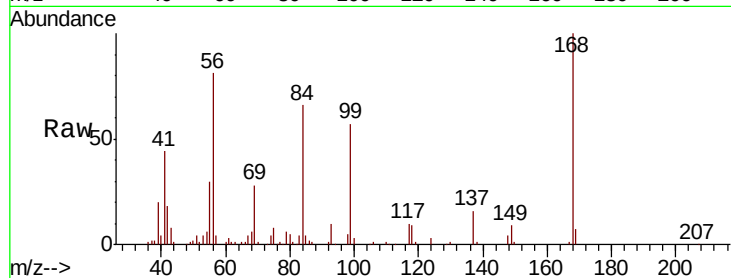
ClientSampleId :

Tot Ion:168 Resp: 183848

Ion Ratio Lower Upper

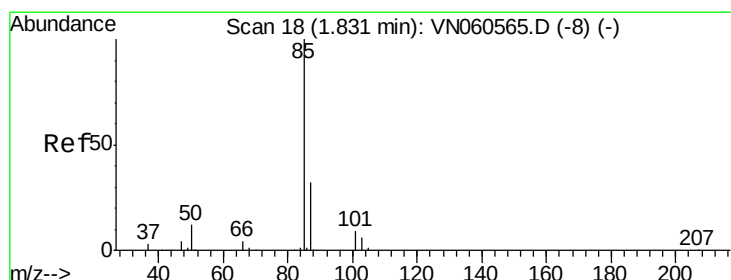
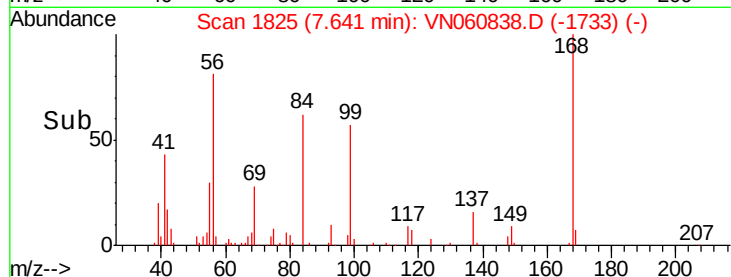
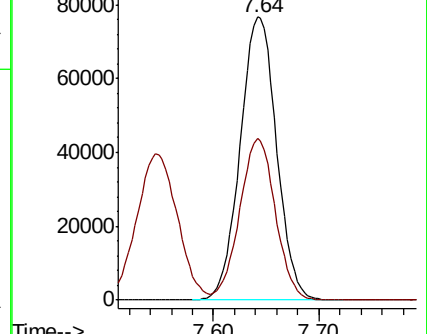
168 100

99 57.2 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 46.279 ug/l

RT: 1.83 min Scan# 18

Delta R.T. 0.00 min

Lab File: VN060838.D

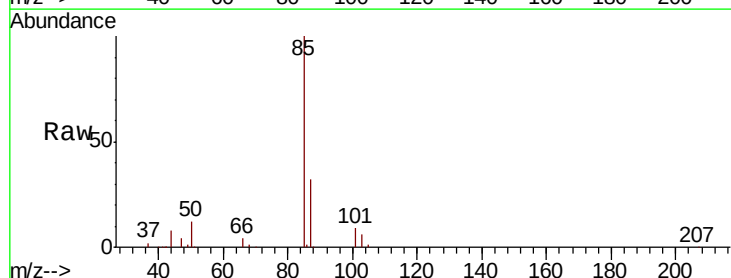
Acq: 2 Apr 2020 21:36

Tgt Ion: 85 Resp: 82326

Ion Ratio Lower Upper

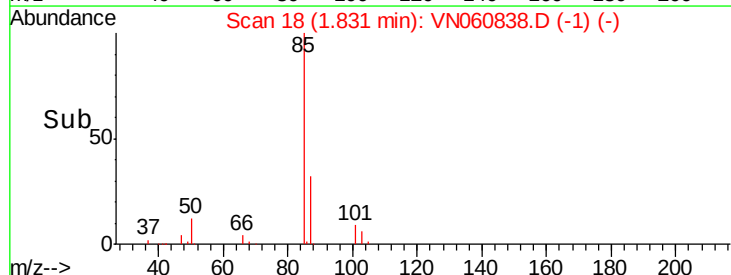
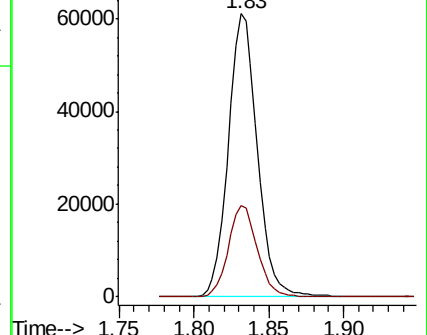
85 100

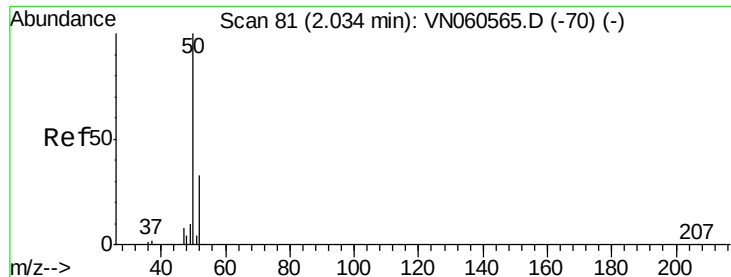
87 32.3 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 44.374 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

Instrument :

MSVOA\_N

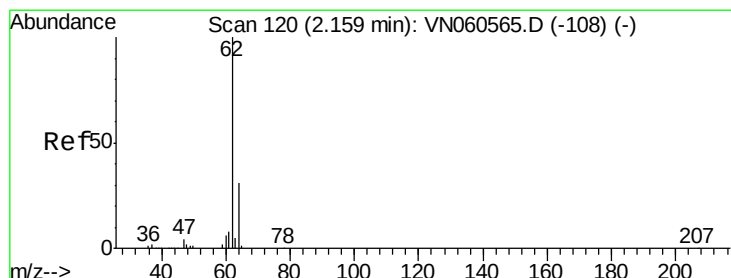
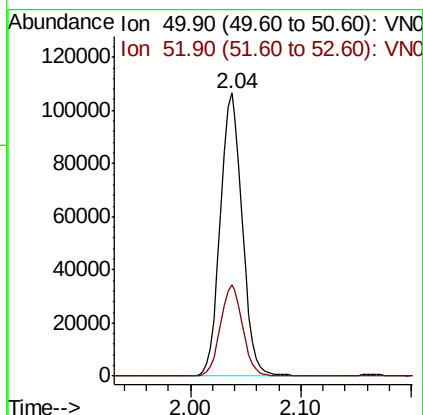
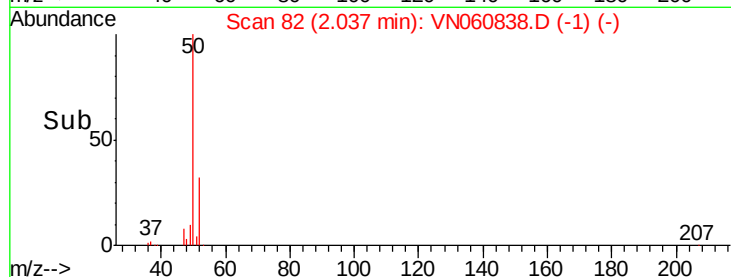
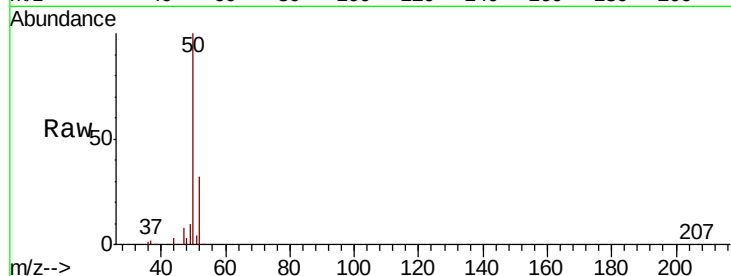
ClientSampled :

Tot Ion: 50 Resp: 147426

Ion Ratio Lower Upper

50 100

52 32.4 26.2 39.2



#4

Vinyl Chloride

Concen: 44.829 ug/l

RT: 2.17 min Scan# 122

Delta R.T. 0.01 min

Lab File: VN060838.D

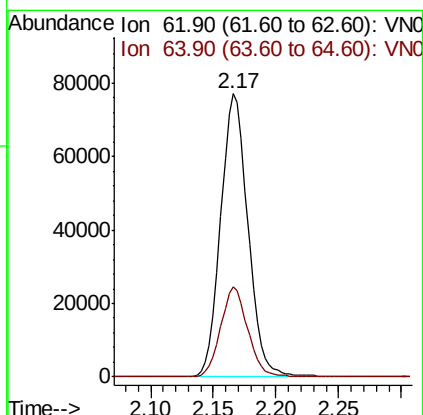
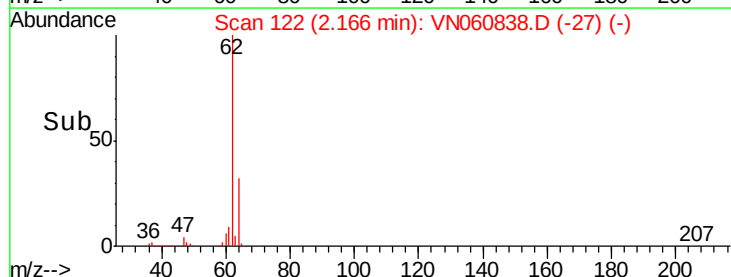
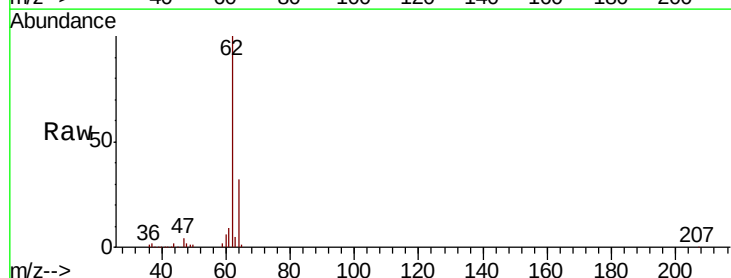
Acq: 2 Apr 2020 21:36

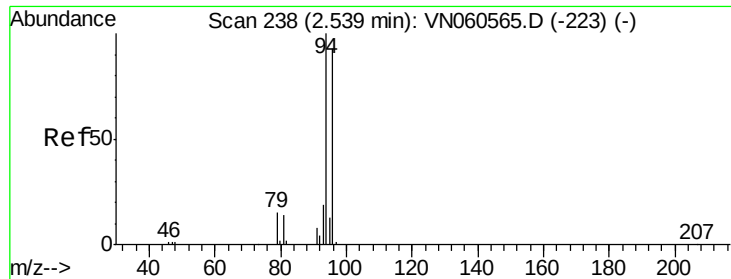
Tgt Ion: 62 Resp: 116495

Ion Ratio Lower Upper

62 100

64 31.9 24.7 37.1





#5

Bromomethane

Concen: 49.559 ug/l

RT: 2.54 min Scan# 238

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

Instrument :

MSVOA\_N

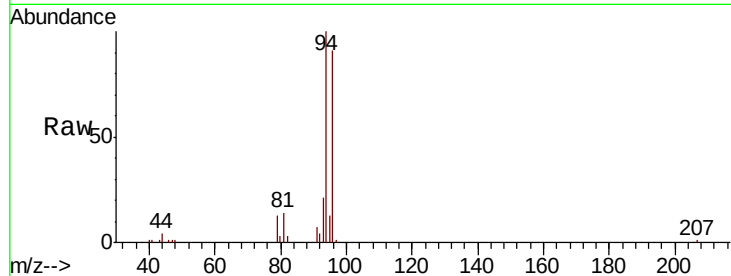
ClientSampled :

Tot Ion: 94 Resp: 55595

Ion Ratio Lower Upper

94 100

96 91.1 74.6 112.0

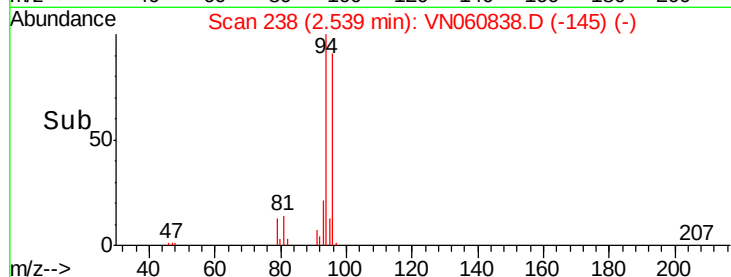


Abundance Ion 93.90 (93.60 to 94.60): VN060838.D (-145) (-)

Ion 95.90 (95.60 to 96.60): VN060838.D (-145) (-)

2.54

Time-->



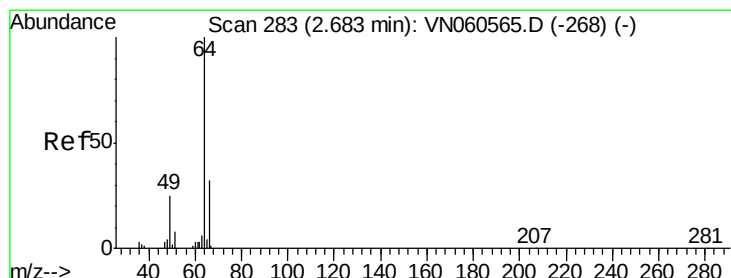
Abundance

Ion 93.90 (93.60 to 94.60): VN060838.D (-145) (-)

Ion 95.90 (95.60 to 96.60): VN060838.D (-145) (-)

2.54

Time-->



#6

Chloroethane

Concen: 48.881 ug/l

RT: 2.68 min Scan# 283

Delta R.T. 0.00 min

Lab File: VN060838.D

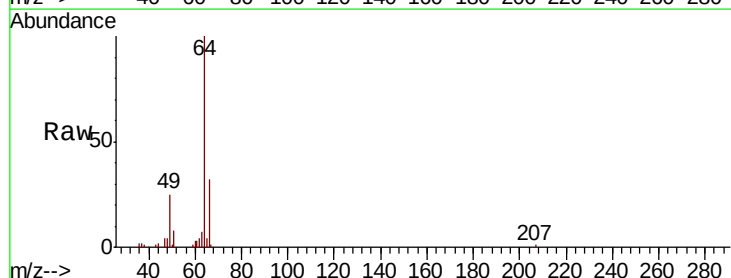
Acq: 2 Apr 2020 21:36

Tgt Ion: 64 Resp: 73171

Ion Ratio Lower Upper

64 100

66 31.8 25.3 37.9

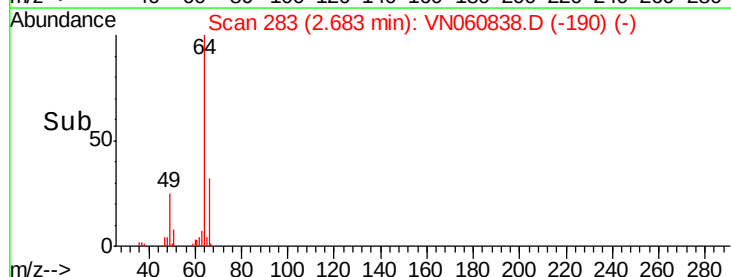


Abundance Ion 63.90 (63.60 to 64.60): VN060838.D (-190) (-)

Ion 65.90 (65.60 to 66.60): VN060838.D (-190) (-)

2.68

Time-->



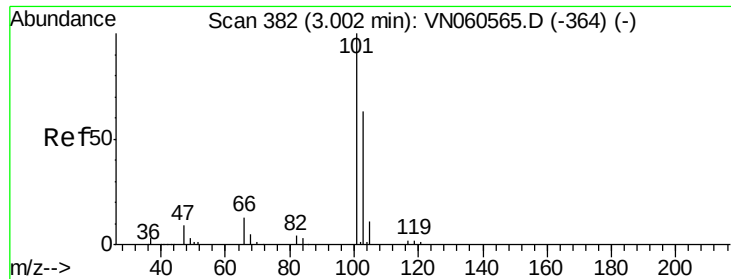
Abundance

Ion 63.90 (63.60 to 64.60): VN060838.D (-190) (-)

Ion 65.90 (65.60 to 66.60): VN060838.D (-190) (-)

2.68

Time-->

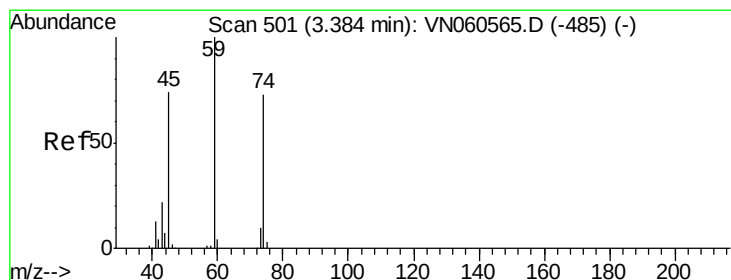
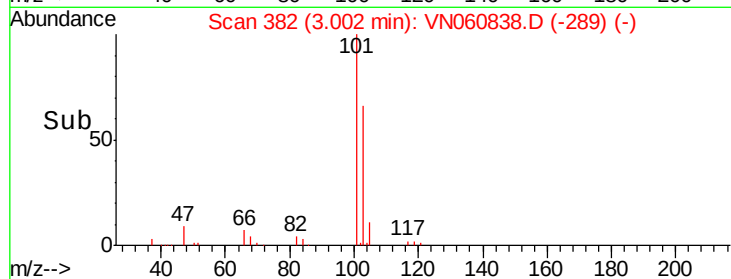
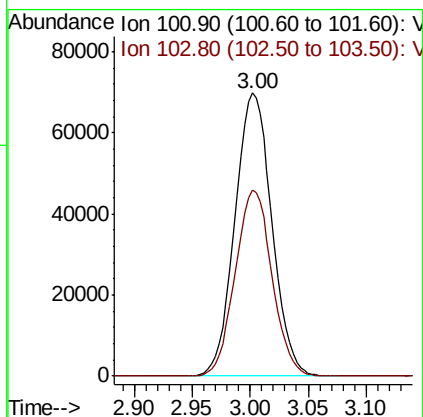
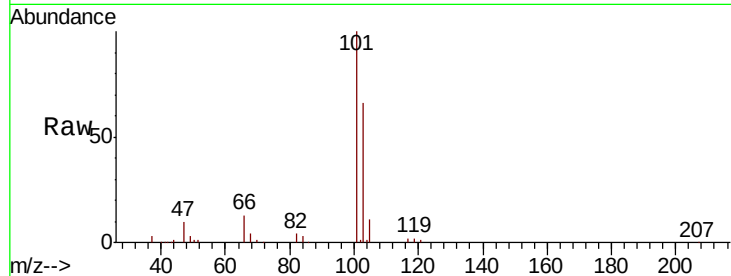


#7

Trichlorofluoromethane  
 Concen: 48.262 ug/l  
 RT: 3.00 min Scan# 382  
 Delta R.T. 0.00 min  
 Lab File: VN060838.D  
 Acq: 2 Apr 2020 21:36

Instrument :  
 MSVOA\_N  
 ClientSampled :

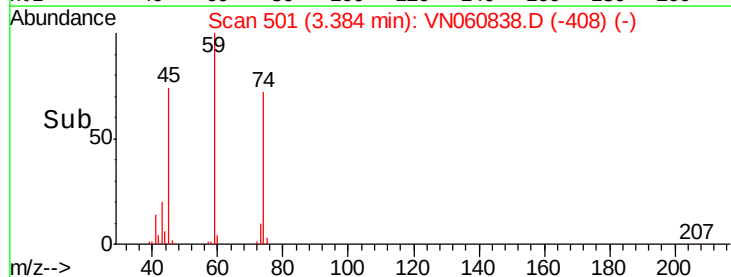
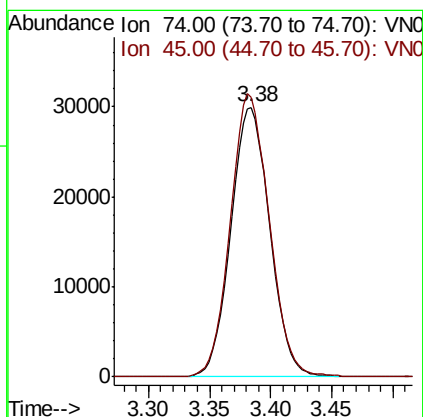
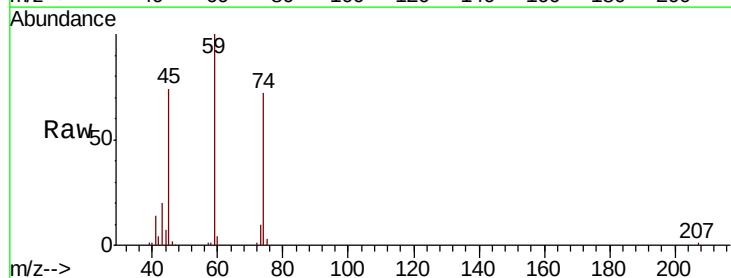
Tot Ion:101 Resp: 154493  
 Ion Ratio Lower Upper  
 101 100  
 103 65.5 50.6 76.0



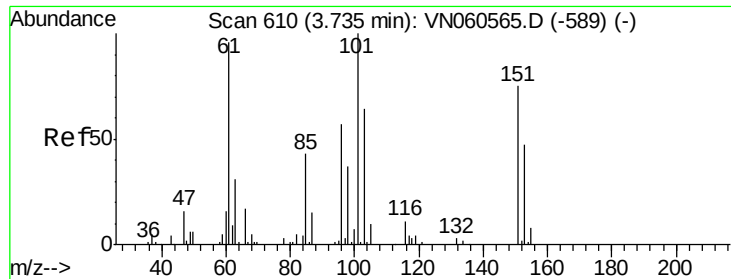
#8

Diethyl Ether  
 Concen: 51.593 ug/l  
 RT: 3.38 min Scan# 501  
 Delta R.T. 0.00 min  
 Lab File: VN060838.D  
 Acq: 2 Apr 2020 21:36

Tgt Ion: 74 Resp: 66346  
 Ion Ratio Lower Upper  
 74 100  
 45 104.9 51.3 153.9







#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.717 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

Instrument :

MSVOA\_N

ClientSampled :

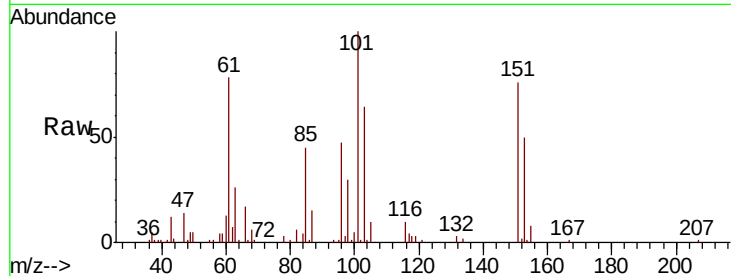
Tot Ion:101 Resp: 92219

Ion Ratio Lower Upper

101 100

85 45.3 35.6 53.4

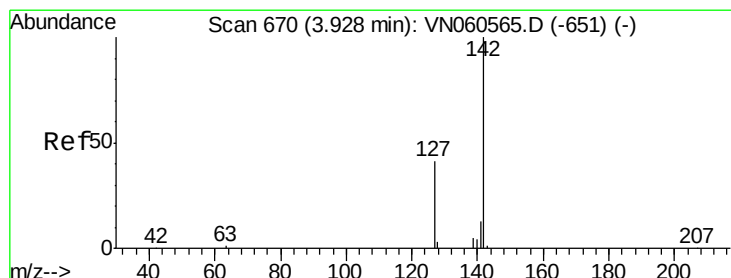
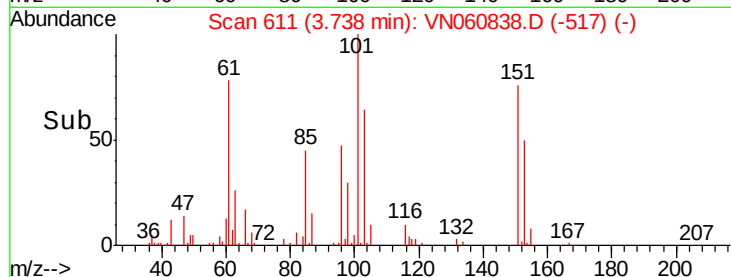
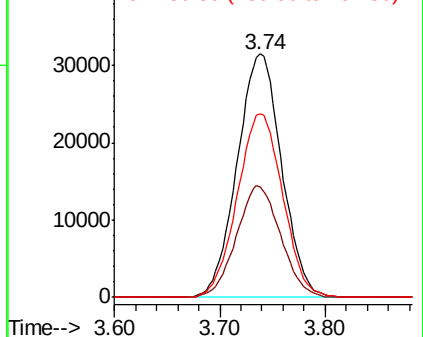
151 77.1 61.4 92.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 46.187 ug/l

RT: 3.93 min Scan# 670

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

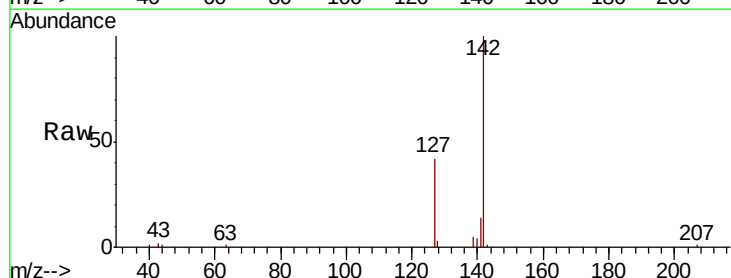
Tgt Ion:142 Resp: 76232

Ion Ratio Lower Upper

142 100

127 41.5 33.5 50.3

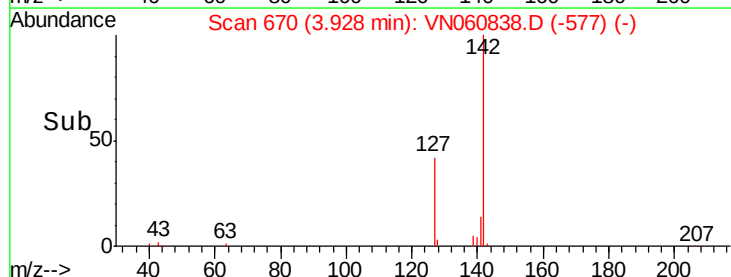
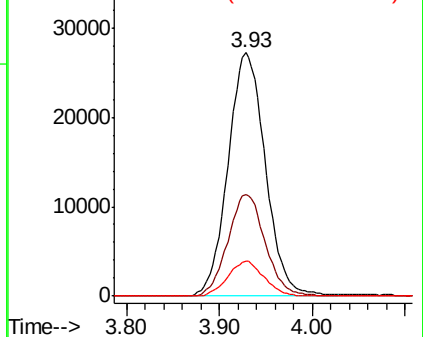
141 13.8 11.0 16.6

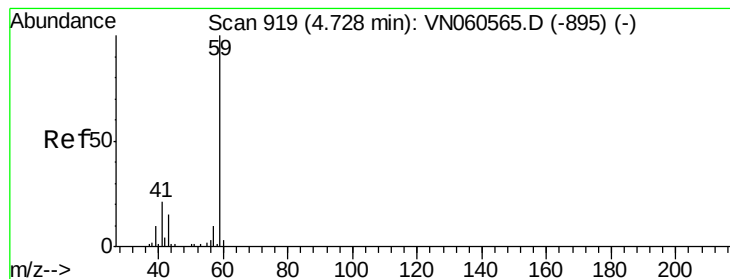


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



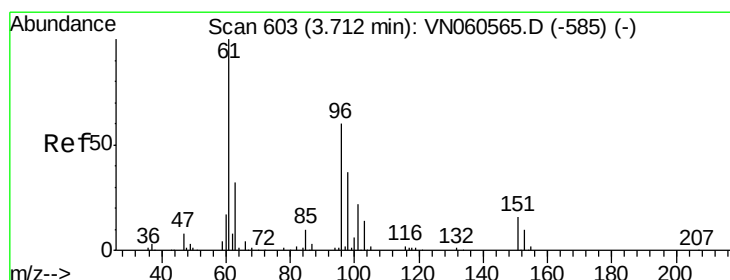
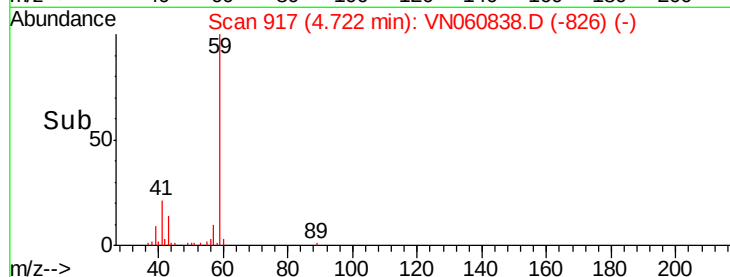
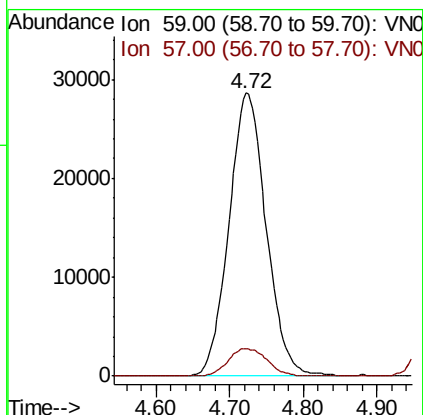
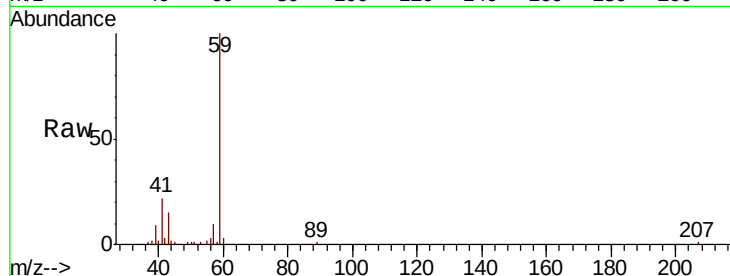


#11

Tert butyl alcohol  
Concen: 270.989 ug/l  
RT: 4.72 min Scan# 917  
Delta R.T. -0.01 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

Instrument :  
MSVOA\_N  
ClientSampleId :

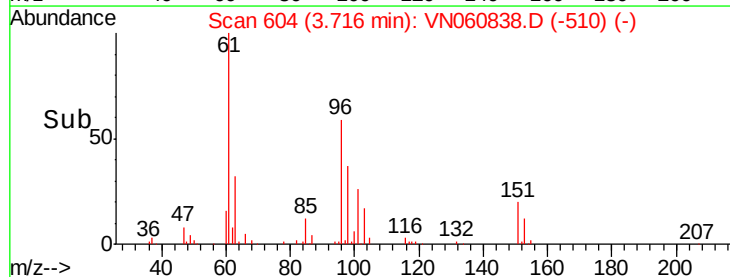
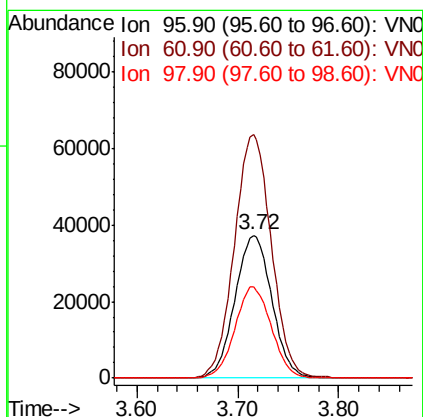
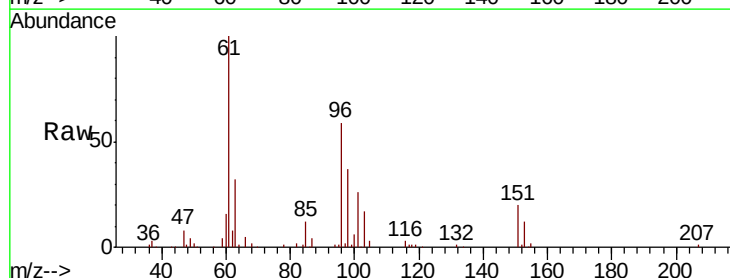
Tot Ion: 59 Resp: 100584  
Ion Ratio Lower Upper  
59 100  
57 10.2 8.2 12.4

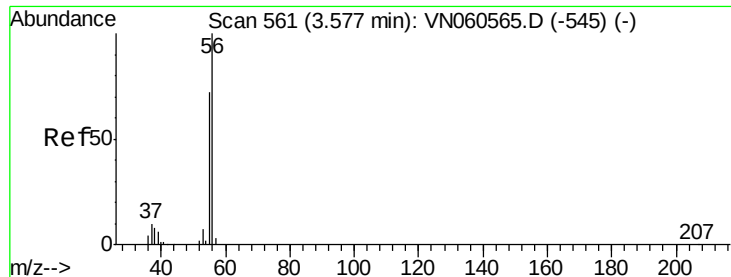


#12

1,1-Dichloroethene  
Concen: 47.626 ug/l  
RT: 3.72 min Scan# 604  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

Tgt Ion: 96 Resp: 94800  
Ion Ratio Lower Upper  
96 100  
61 170.3 134.1 201.1  
98 63.7 49.9 74.9





#13

Acrolein

Concen: 255.186 ug/l

RT: 3.57 min Scan# 560

Delta R.T. -0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

Instrument :

MSVOA\_N

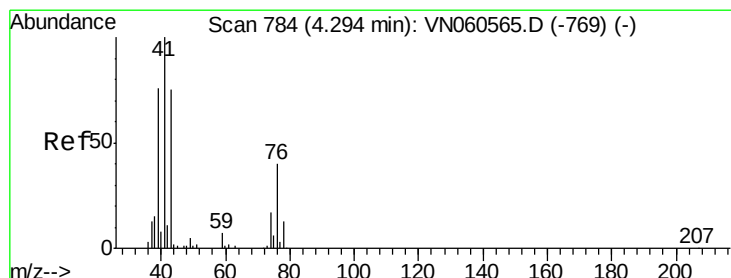
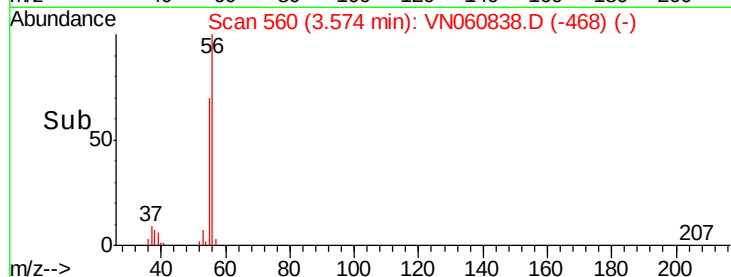
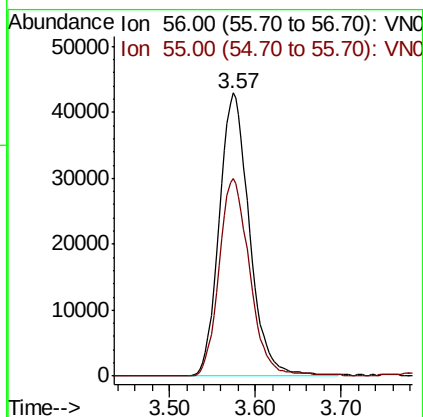
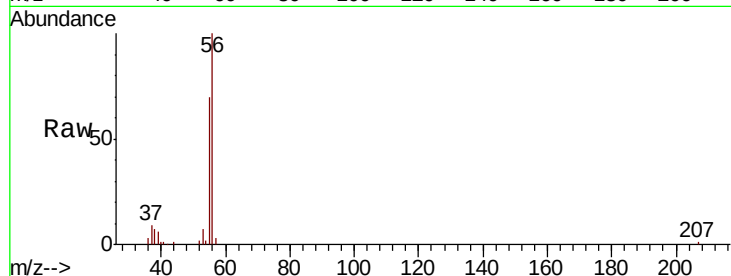
ClientSampleId :

Tot Ion: 56 Resp: 104976

Ion Ratio Lower Upper

56 100

55 71.0 56.7 85.1



#14

Allyl chloride

Concen: 49.118 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

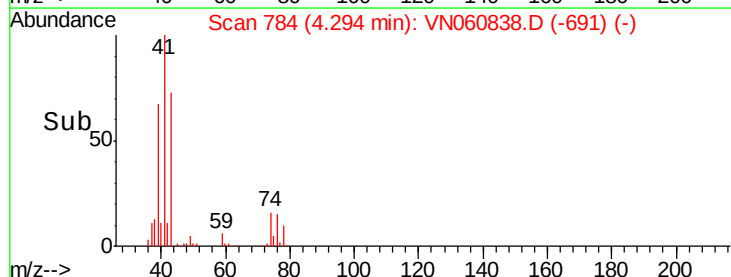
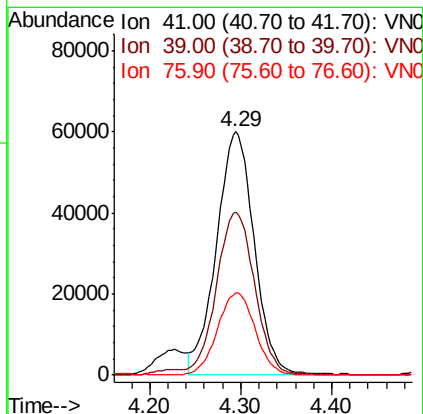
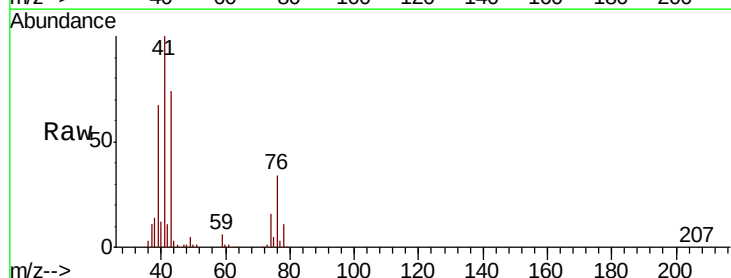
Tgt Ion: 41 Resp: 171957

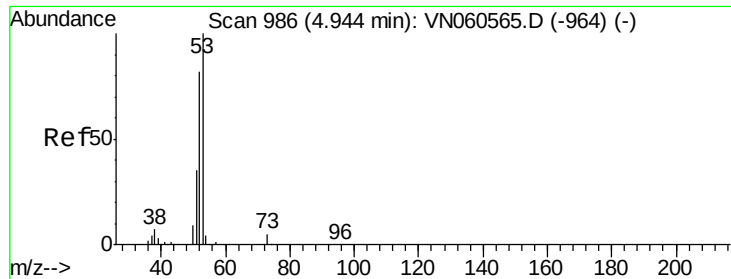
Ion Ratio Lower Upper

41 100

39 70.1 57.8 86.8

76 34.1 28.6 43.0





#15

Acrylonitrile

Concen: 277.678 ug/l

RT: 4.94 min Scan# 985

Delta R.T. -0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

Instrument :

MSVOA\_N

ClientSampleId :

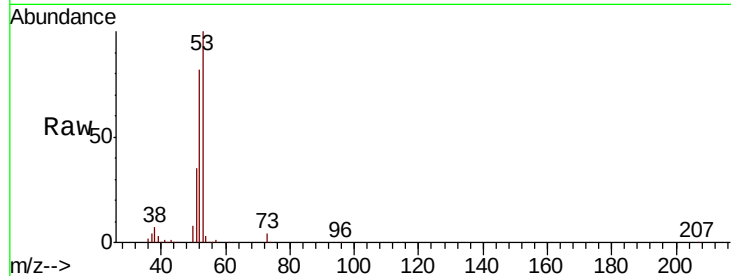
Tot Ion: 53 Resp: 303077

Ion Ratio Lower Upper

53 100

52 81.4 66.2 99.4

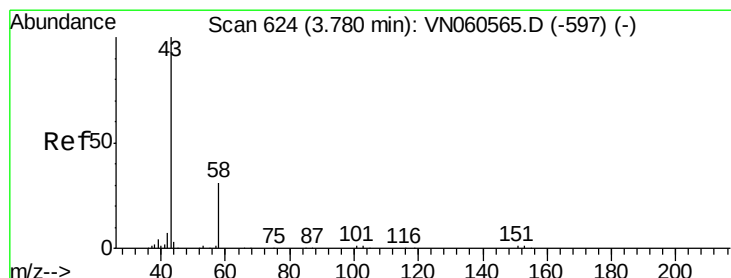
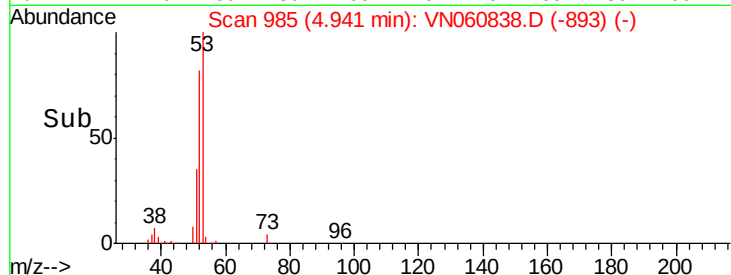
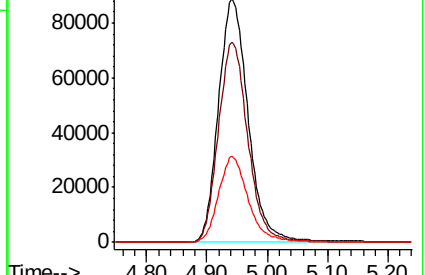
51 35.5 28.7 43.1



Abundance Ion 53.00 (52.70 to 53.70): VN060838.D (-964) (-)

Ion 52.00 (51.70 to 52.70): VN060838.D (-964) (-)

Ion 51.00 (50.70 to 51.70): VN060838.D (-964) (-)



#16

Acetone

Concen: 268.627 ug/l

RT: 3.78 min Scan# 623

Delta R.T. -0.00 min

Lab File: VN060838.D

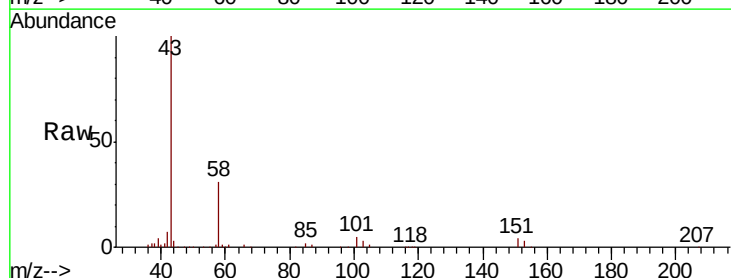
Acq: 2 Apr 2020 21:36

Tgt Ion: 43 Resp: 240149

Ion Ratio Lower Upper

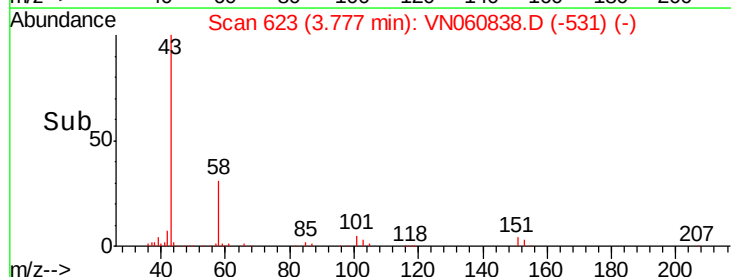
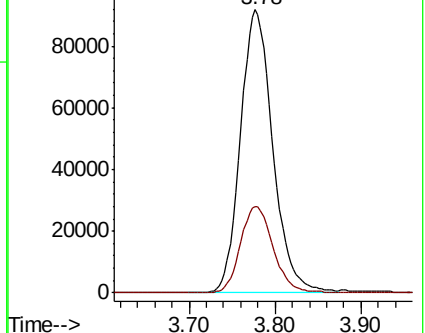
43 100

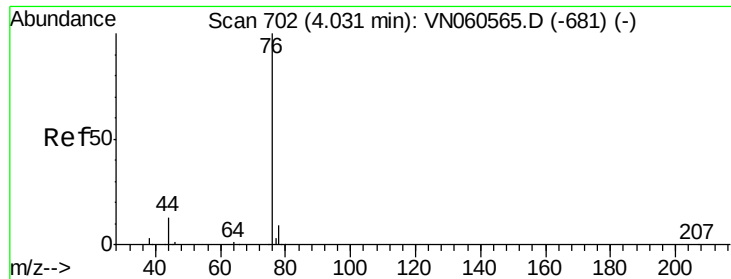
58 30.6 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN060838.D (-531) (-)

Ion 58.00 (57.70 to 58.70): VN060838.D (-531) (-)

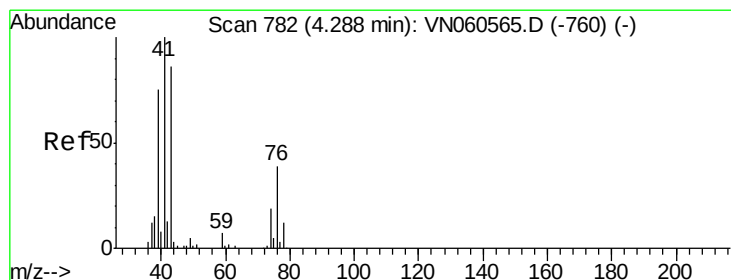
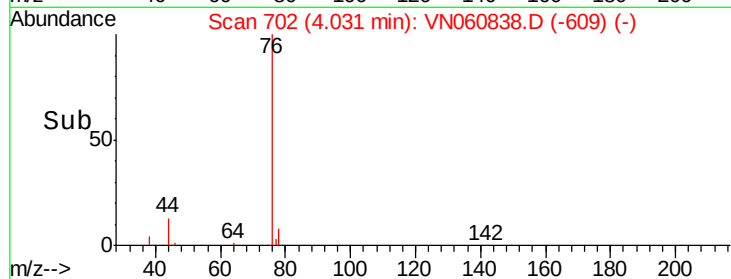
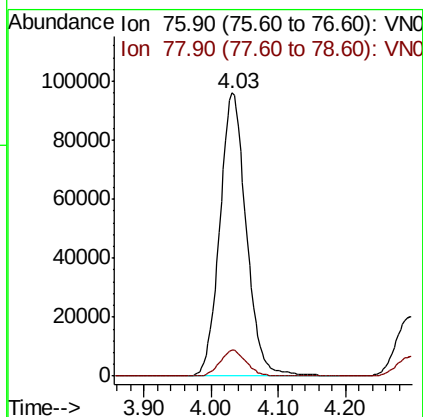
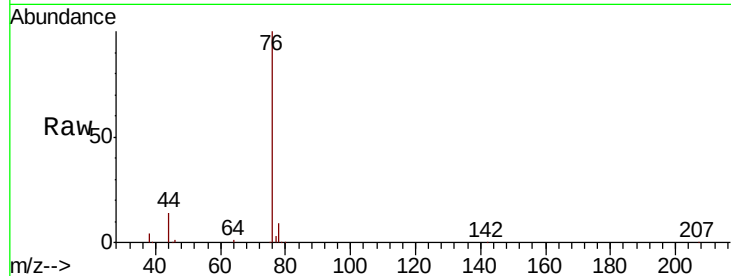




#17  
Carbon Disulfide  
Concen: 43.561 ug/l  
RT: 4.03 min Scan# 702  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

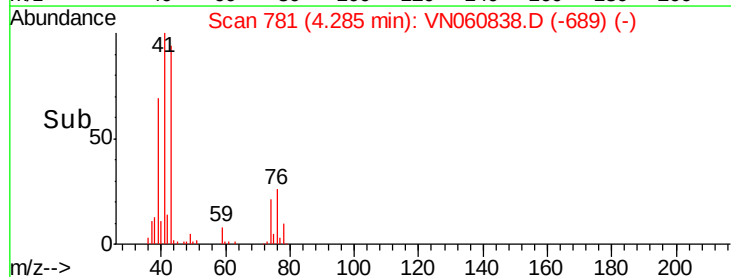
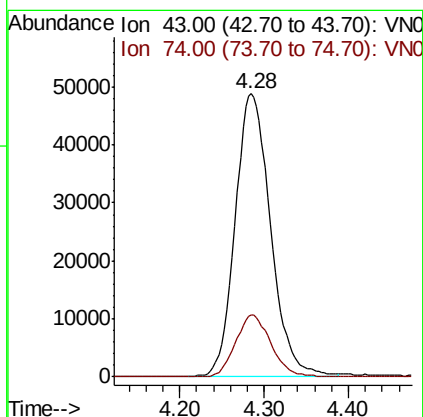
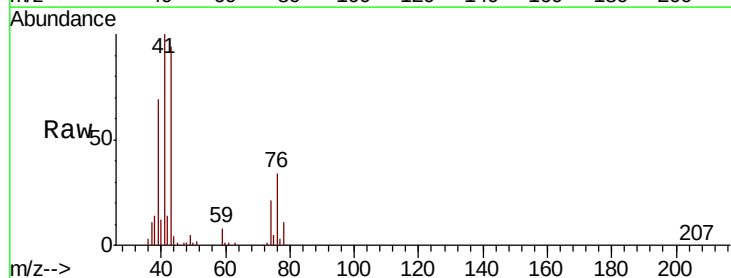
Instrument :  
MSVOA\_N  
ClientSampled :

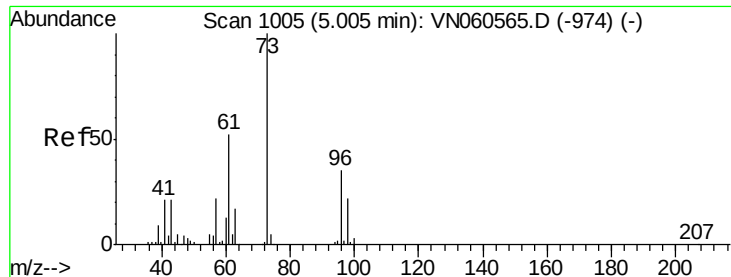
Tot Ion: 76 Resp: 263707  
Ion Ratio Lower Upper  
76 100  
78 9.2 7.2 10.8



#18  
Methyl Acetate  
Concen: 56.848 ug/l  
RT: 4.28 min Scan# 781  
Delta R.T. -0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

Tgt Ion: 43 Resp: 143048  
Ion Ratio Lower Upper  
43 100  
74 21.8 17.5 26.3

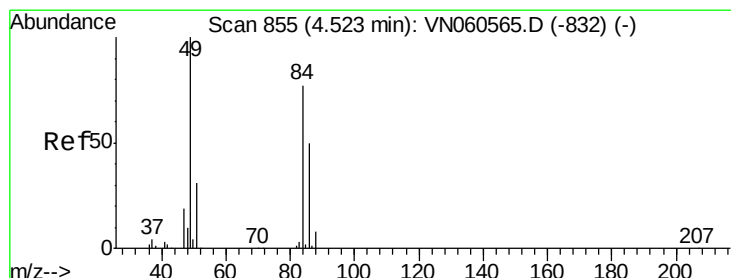
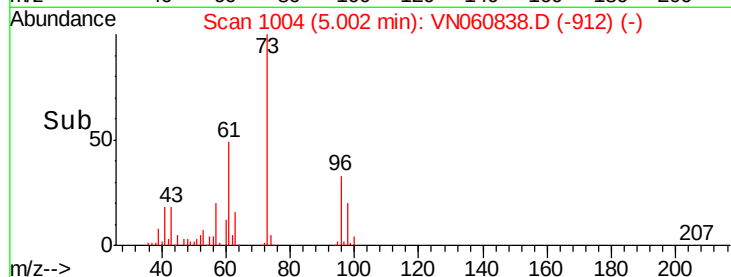
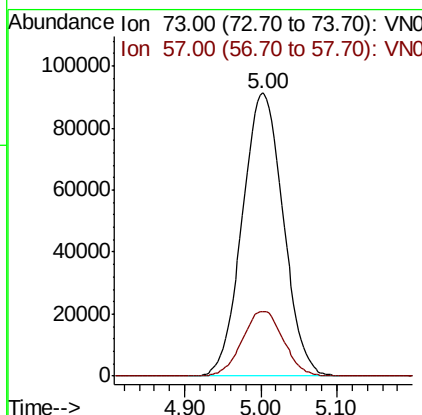
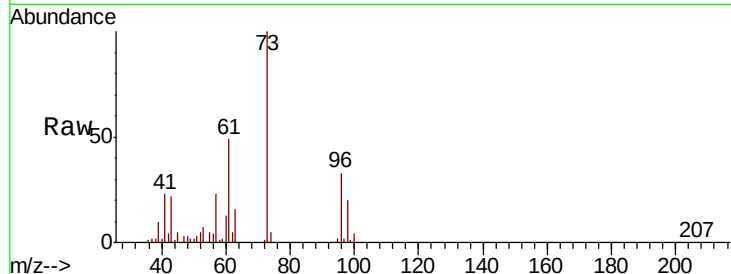




#19  
Methyl tert-butyl Ether  
Concen: 49.916 ug/l  
RT: 5.00 min Scan# 1004  
Delta R.T. -0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

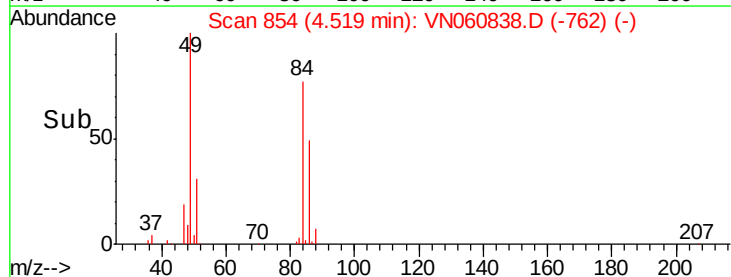
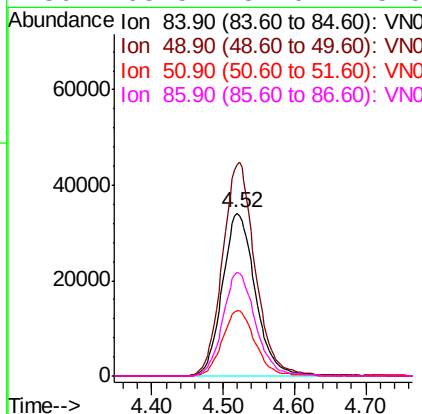
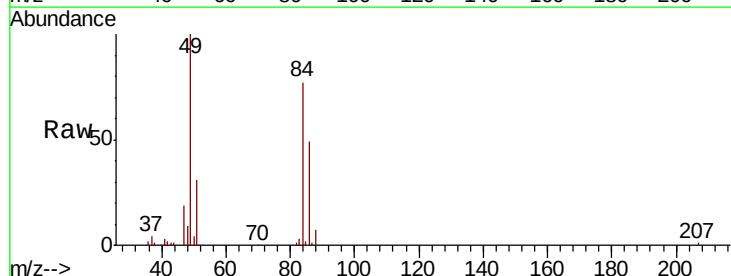
Instrument :  
MSVOA\_N  
ClientSampled :

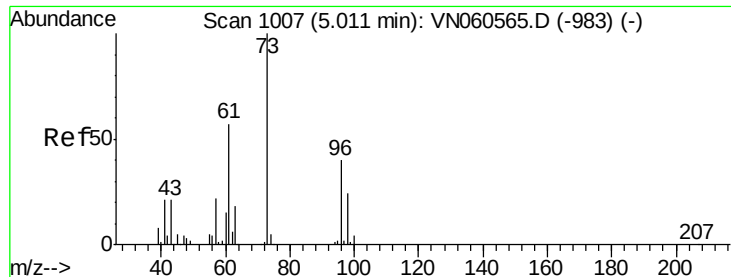
Tot Ion: 73 Resp: 341607  
Ion Ratio Lower Upper  
73 100  
57 23.0 17.5 26.3



#20  
Methylene Chloride  
Concen: 49.879 ug/l  
RT: 4.52 min Scan# 854  
Delta R.T. -0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

Tgt Ion: 84 Resp: 109693  
Ion Ratio Lower Upper  
84 100  
49 129.8 103.3 154.9  
51 40.1 31.6 47.4  
86 63.5 52.0 78.0



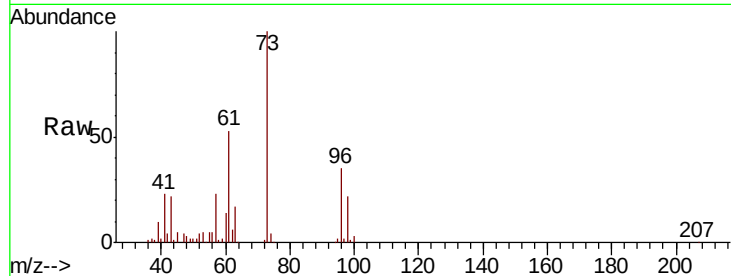


#21

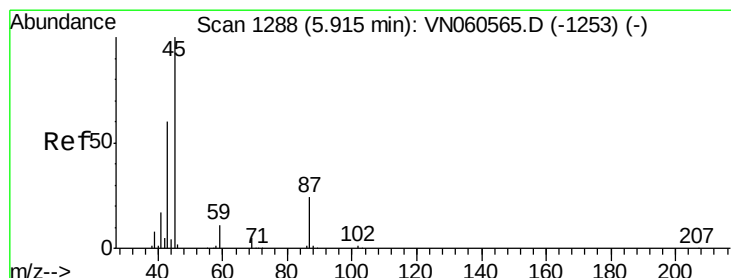
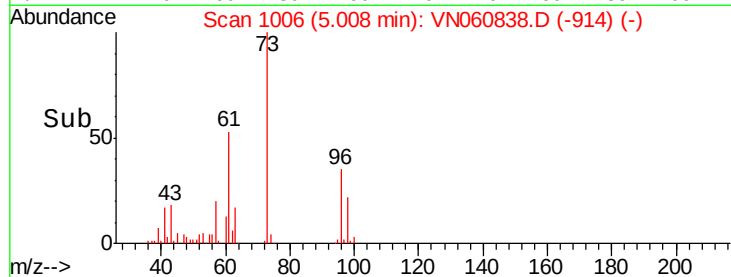
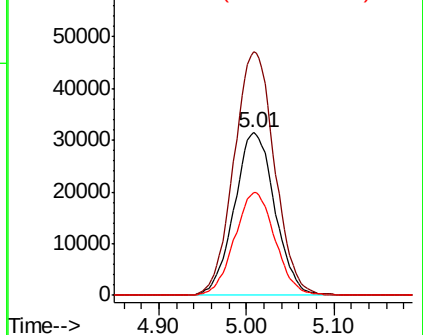
trans-1,2-Dichloroethene  
Concen: 47.681 ug/l  
RT: 5.01 min Scan# 1006  
Delta R.T. -0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 96 Resp: 101152  
Ion Ratio Lower Upper  
96 100  
61 149.9 114.4 171.6  
98 63.6 48.4 72.6



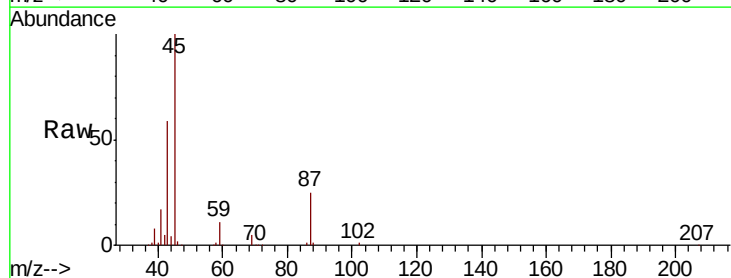
Abundance Ion 95.90 (95.60 to 96.60): VN0  
Ion 60.90 (60.60 to 61.60): VN0  
Ion 97.90 (97.60 to 98.60): VN0



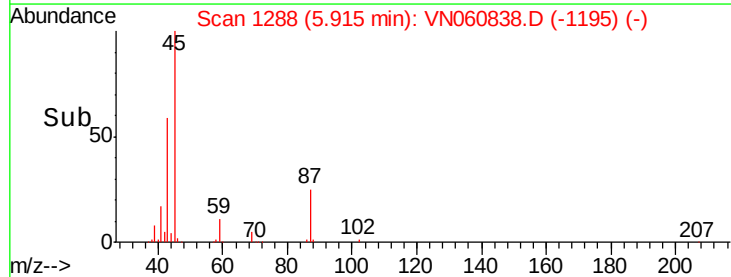
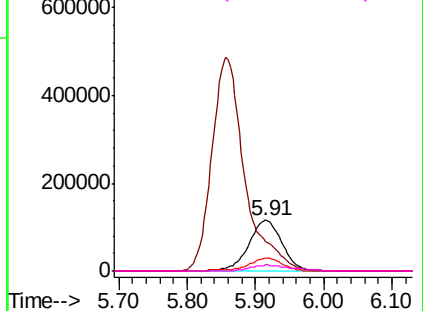
#22

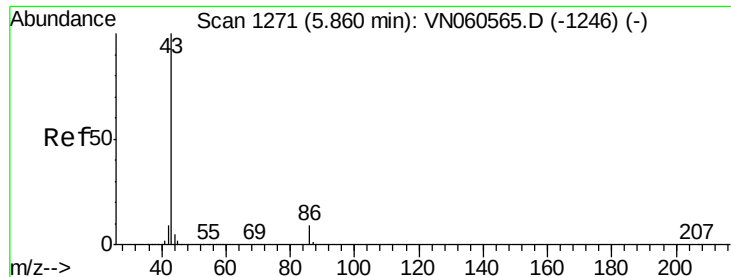
Diisopropyl ether  
Concen: 52.810 ug/l  
RT: 5.91 min Scan# 1288  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

Tgt Ion: 45 Resp: 390593  
Ion Ratio Lower Upper  
45 100  
43 58.2 49.8 74.8  
87 24.8 20.1 30.1  
59 11.3 9.2 13.8



Abundance Ion 45.00 (44.70 to 45.70): VN0  
Ion 43.00 (42.70 to 43.70): VN0  
Ion 87.00 (86.70 to 87.70): VN0  
Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 269.890 ug/l

RT: 5.86 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

Instrument :

MSVOA\_N

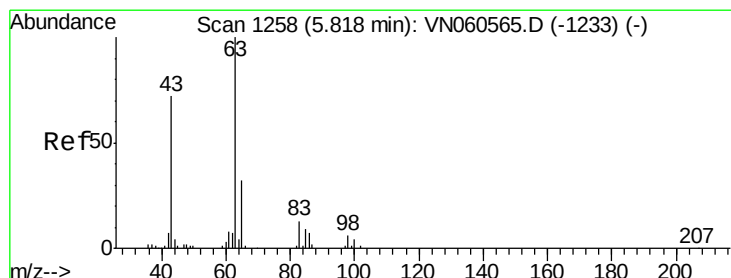
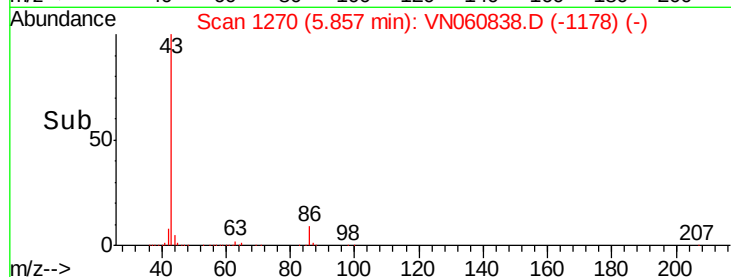
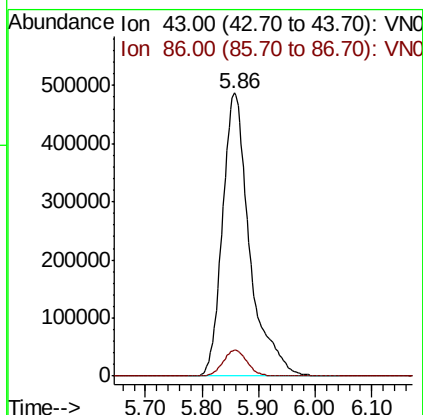
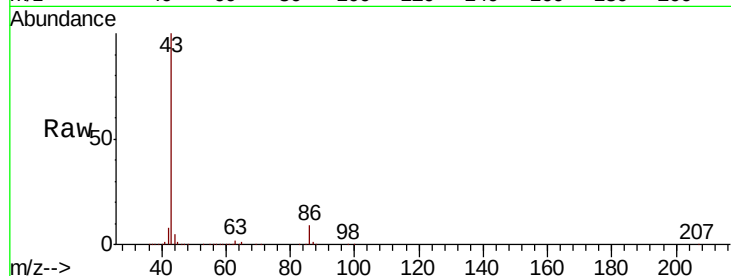
ClientSampled :

Tot Ion: 43 Resp: 1628710

Ion Ratio Lower Upper

43 100

86 9.1 7.6 11.4



#24

1,1-Dichloroethane

Concen: 50.728 ug/l

RT: 5.82 min Scan# 1257

Delta R.T. -0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

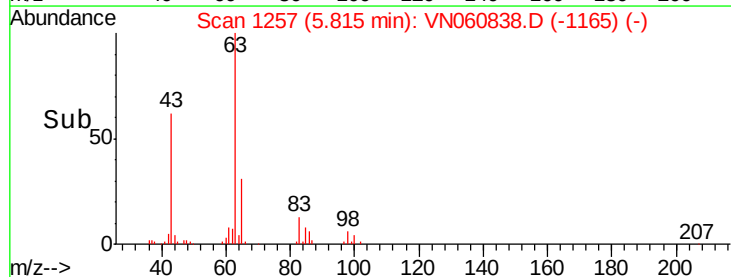
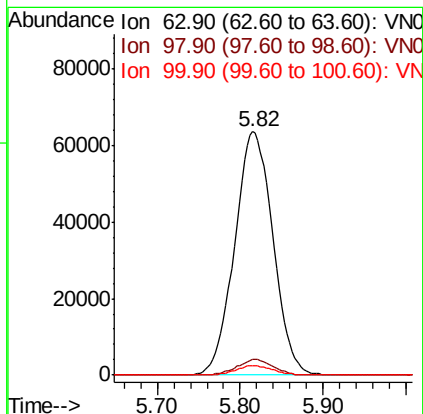
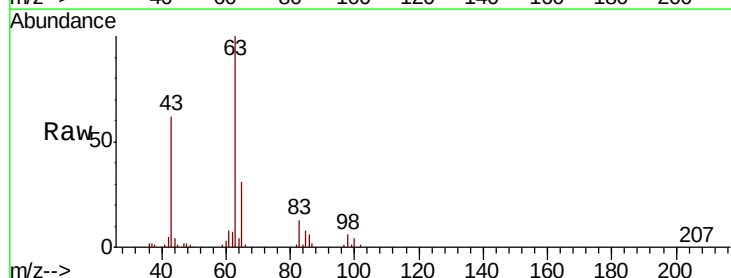
Tgt Ion: 63 Resp: 204538

Ion Ratio Lower Upper

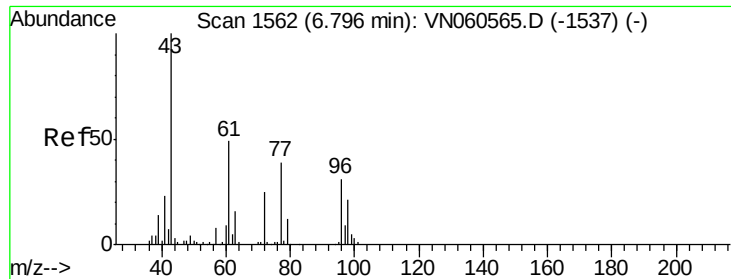
63 100

98 6.2 2.9 8.7

100 3.7 1.8 5.5



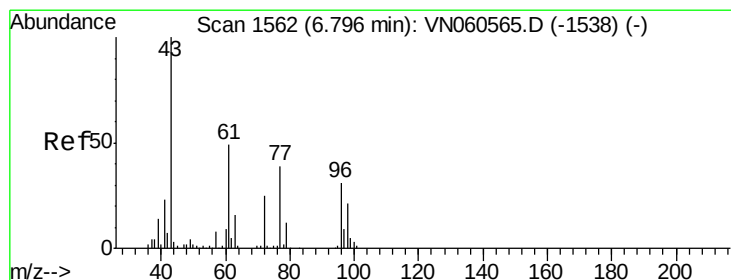
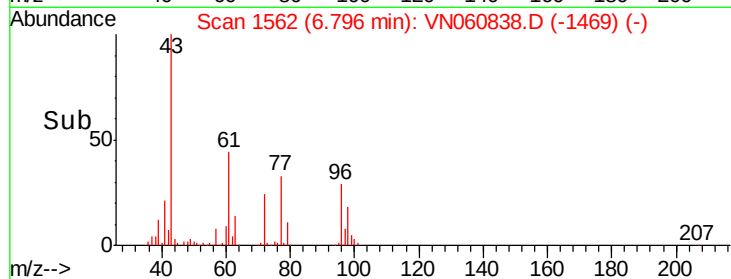
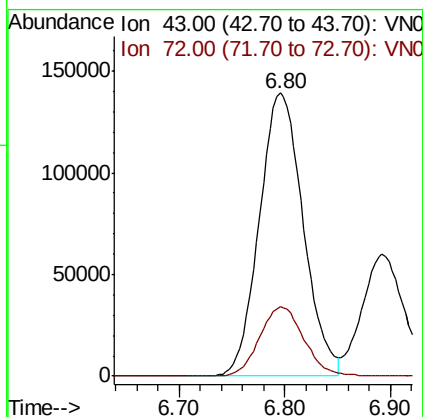
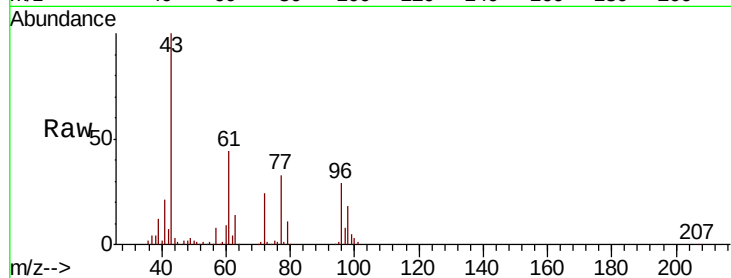




#25  
2-Butanone  
Concen: 278.264 ug/l  
RT: 6.80 min Scan# 1562  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

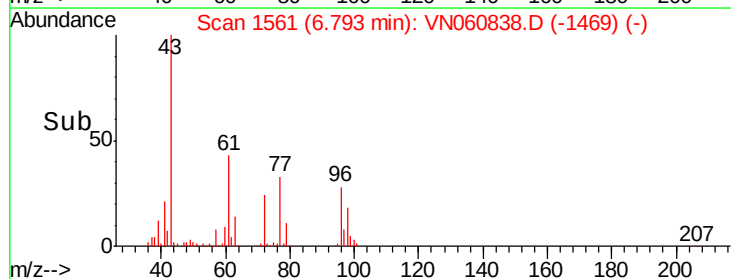
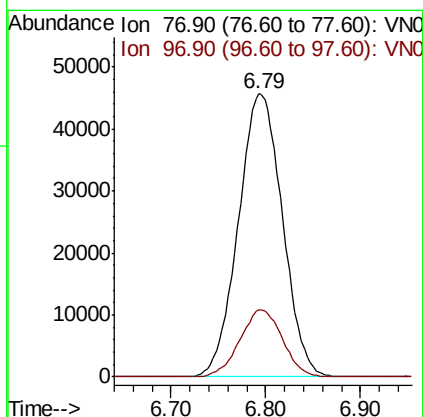
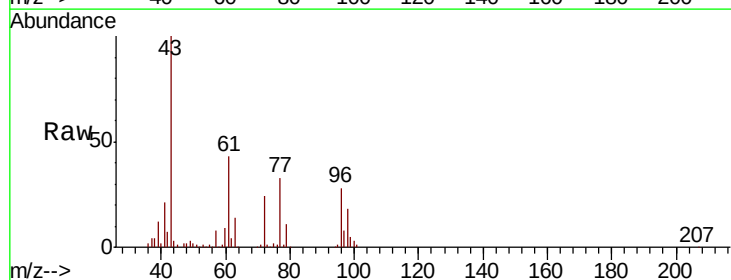
Instrument :  
MSVOA\_N  
ClientSampled :

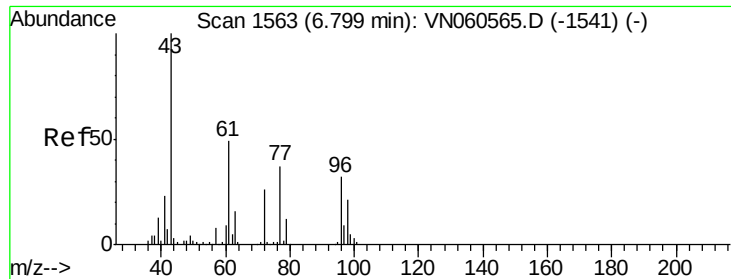
Tot Ion: 43 Resp: 402543  
Ion Ratio Lower Upper  
43 100  
72 24.5 20.4 30.6



#26  
2,2-Dichloropropane  
Concen: 46.572 ug/l  
RT: 6.79 min Scan# 1561  
Delta R.T. -0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

Tgt Ion: 77 Resp: 147743  
Ion Ratio Lower Upper  
77 100  
97 22.9 11.4 34.1





#27

cis-1,2-Dichloroethene

Concen: 49.233 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

Instrument :  
MSVOA\_N  
ClientSampleId :

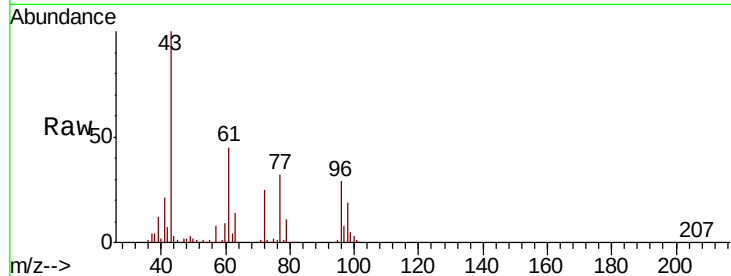
Tot Ion: 96 Resp: 118688

Ion Ratio Lower Upper

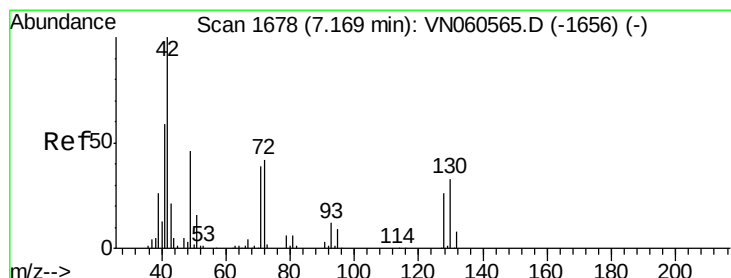
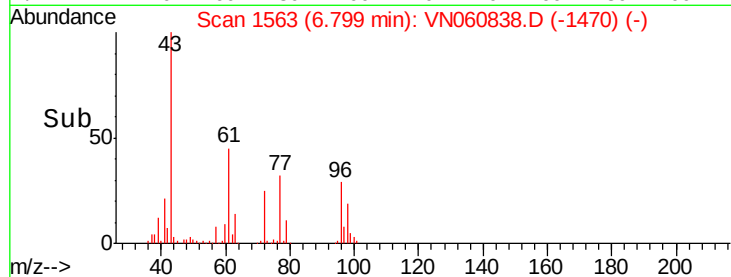
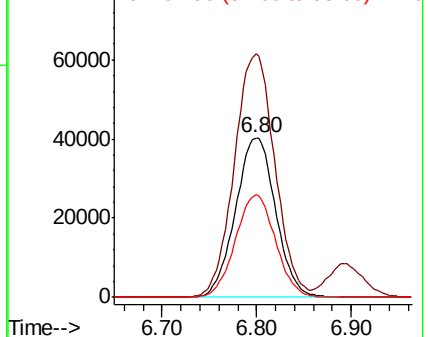
96 100

61 154.4 0.0 305.6

98 64.3 0.0 127.6



Abundance Ion 95.90 (95.60 to 96.60): VN0  
Ion 60.90 (60.60 to 61.60): VN0  
Ion 97.90 (97.60 to 98.60): VN0



#28

Bromochloromethane

Concen: 52.067 ug/l

RT: 7.17 min Scan# 1678

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

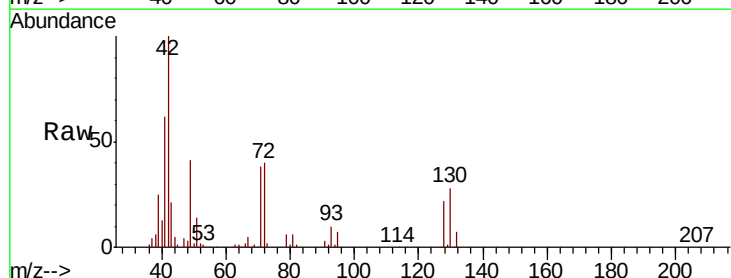
Tgt Ion: 49 Resp: 100442

Ion Ratio Lower Upper

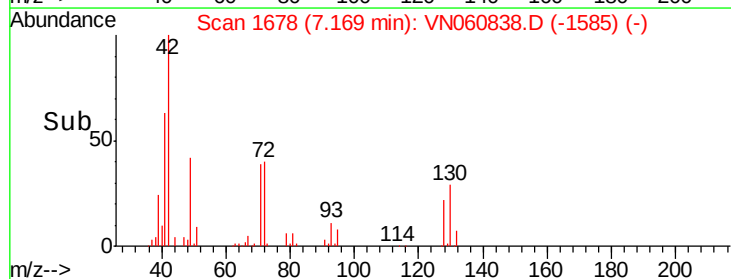
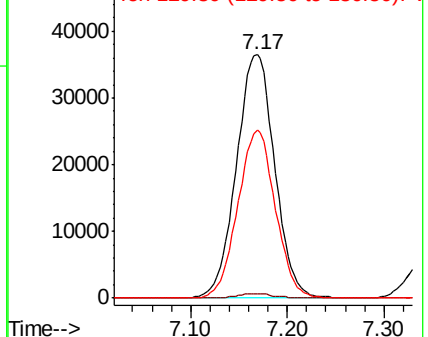
49 100

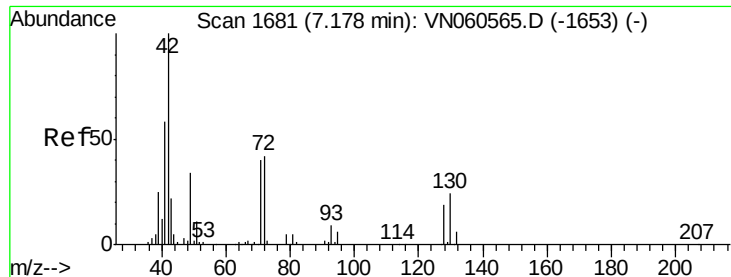
129 0.9 0.0 3.4

130 67.4 55.0 82.4



Abundance Ion 48.90 (48.60 to 49.60): VN0  
Ion 128.80 (128.50 to 129.50): V  
Ion 129.80 (129.50 to 130.50): V

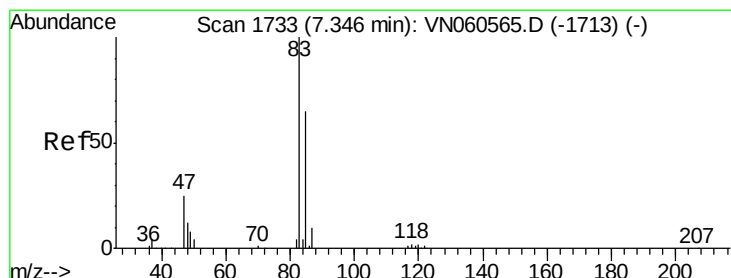
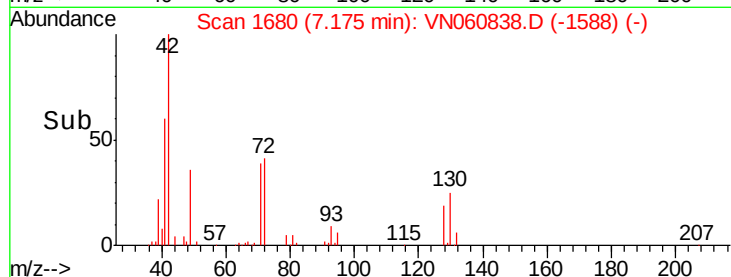
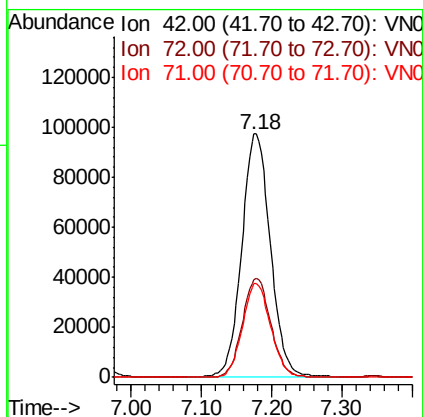
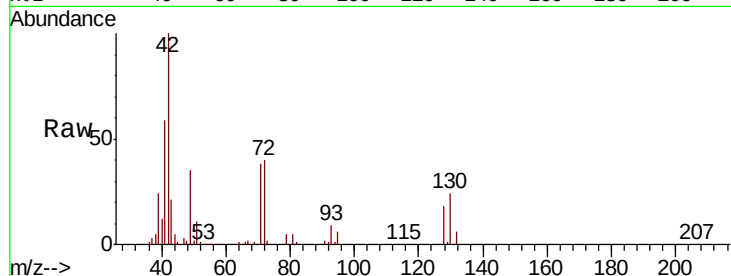




#29  
Tetrahydrofuran  
Concen: 269.798 ug/l  
RT: 7.18 min Scan# 1680  
Delta R.T. -0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

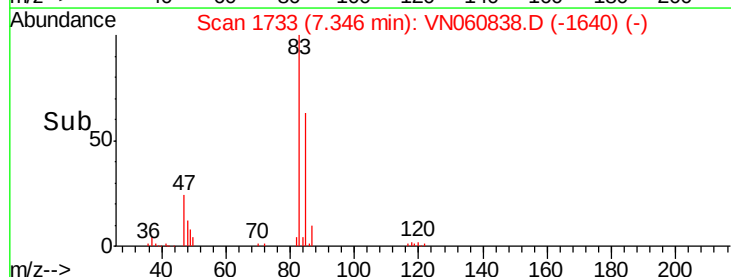
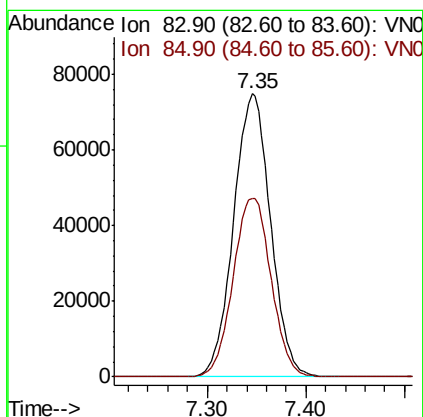
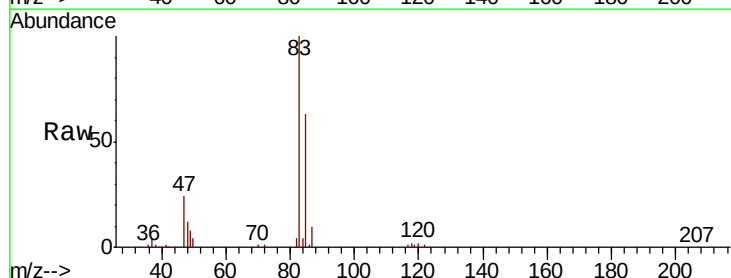
Instrument :  
MSVOA\_N  
ClientSampleId :

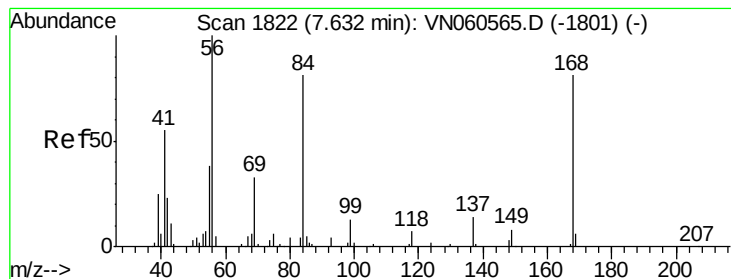
Tot Ion: 42 Resp: 276150  
Ion Ratio Lower Upper  
42 100  
72 40.3 33.2 49.8  
71 37.8 31.1 46.7



#30  
Chloroform  
Concen: 50.372 ug/l  
RT: 7.35 min Scan# 1733  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

Tgt Ion: 83 Resp: 194706  
Ion Ratio Lower Upper  
83 100  
85 63.1 51.8 77.8





#31

Cyclohexane

Concen: 46.808 ug/l

RT: 7.63 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

Instrument :  
MSVOA\_N  
ClientSampleId :

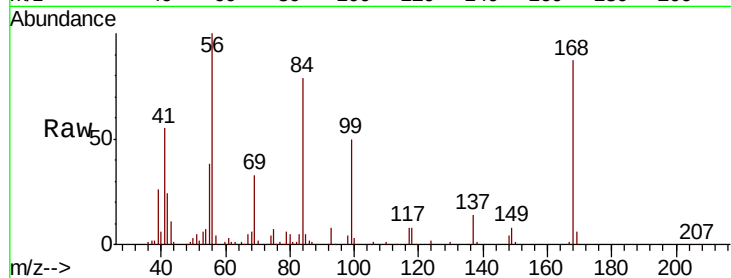
Tot Ion: 56 Resp: 190269

Ion Ratio Lower Upper

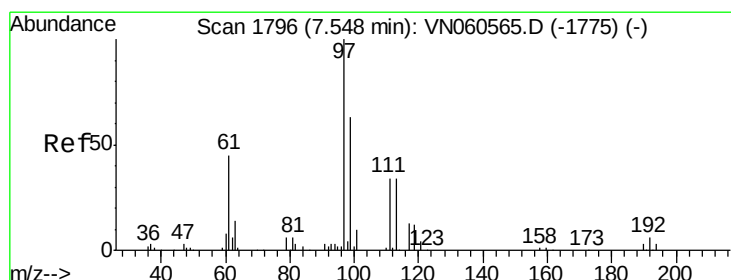
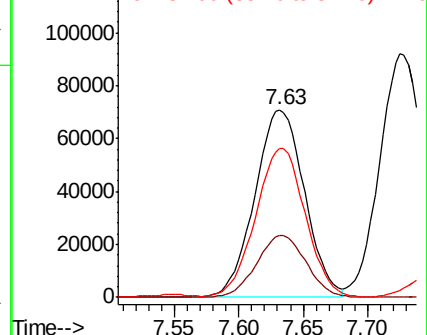
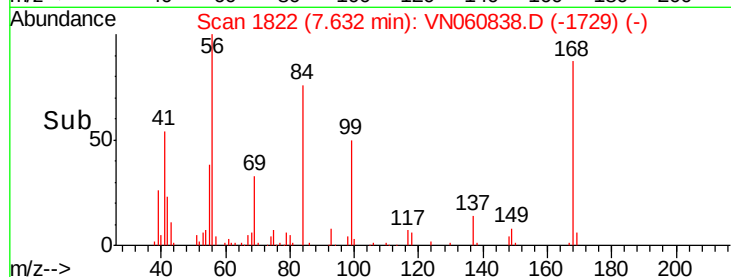
56 100

69 33.1 26.6 40.0

84 78.6 64.3 96.5



Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 50.185 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

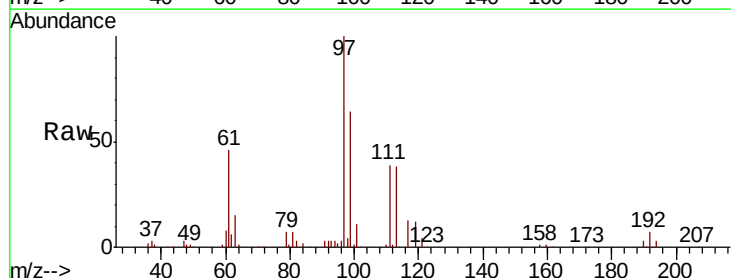
Tgt Ion: 97 Resp: 167226

Ion Ratio Lower Upper

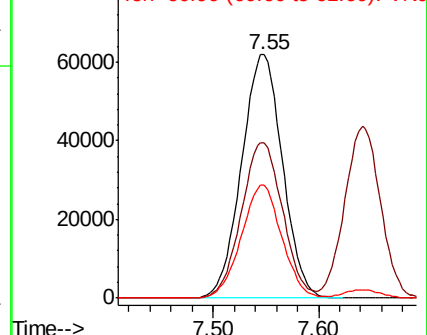
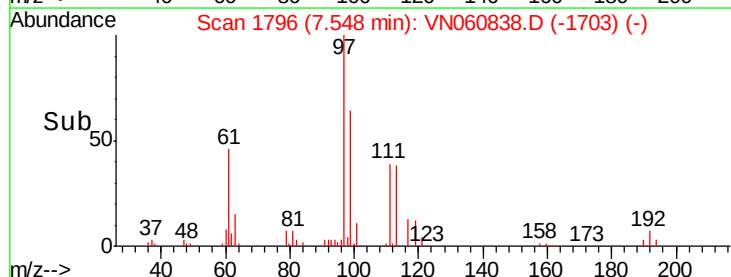
97 100

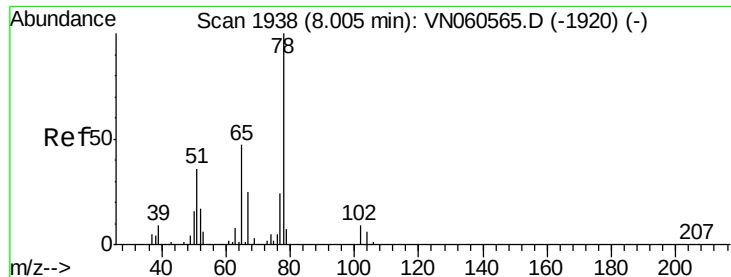
99 64.3 50.6 75.8

61 45.8 36.2 54.4



Abundance Ion 96.90 (96.60 to 97.60): VN0  
Ion 98.90 (98.60 to 99.60): VN0  
Ion 60.90 (60.60 to 61.60): VN0

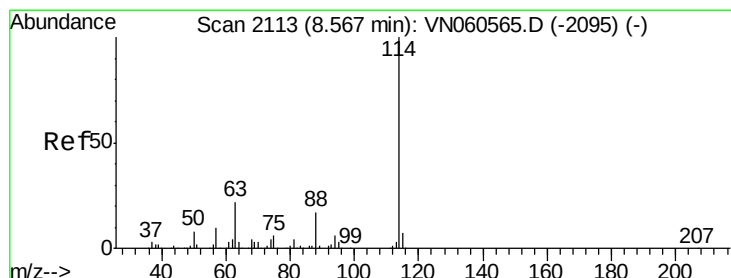
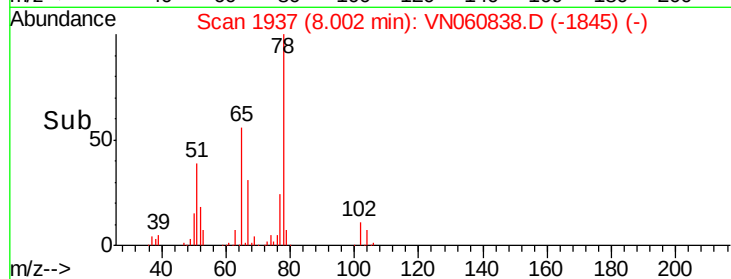
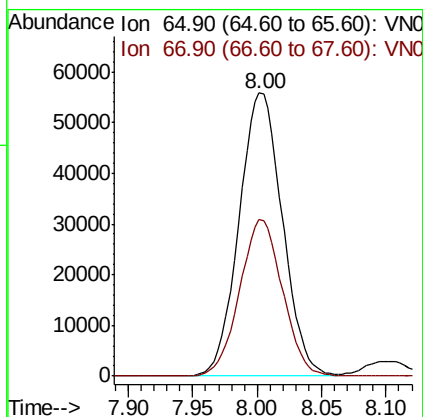
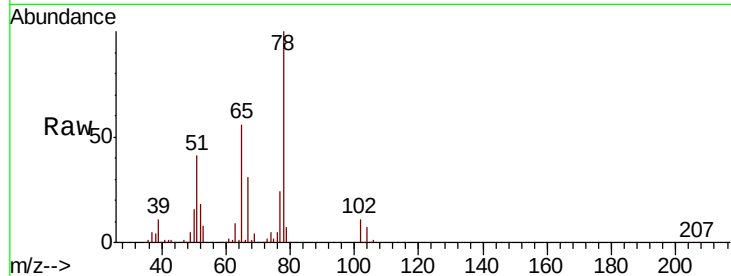




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.826 ug/l  
 RT: 8.00 min Scan# 1937  
 Delta R.T. -0.00 min  
 Lab File: VN060838.D  
 Acq: 2 Apr 2020 21:36

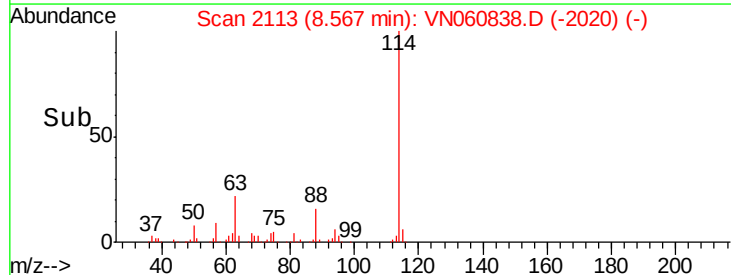
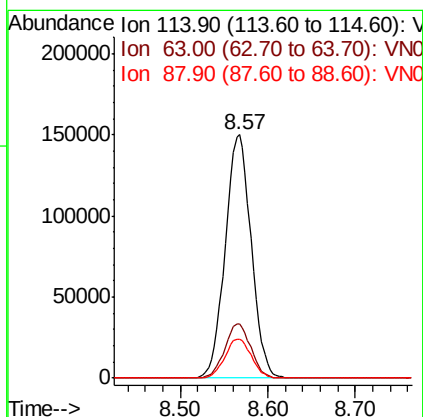
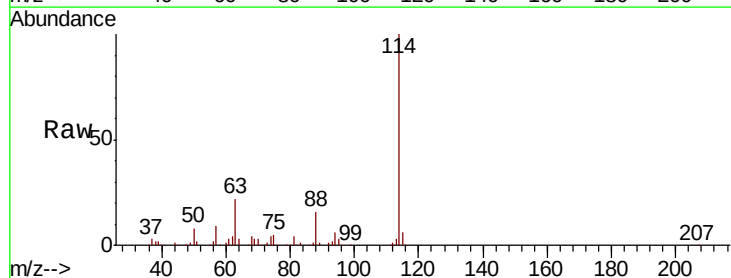
Instrument :  
 MSVOA\_N  
 ClientSampleId :

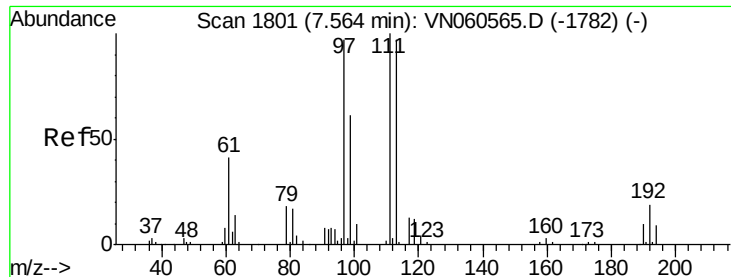
Tot Ion: 65 Resp: 130798  
 Ion Ratio Lower Upper  
 65 100  
 67 54.6 0.0 107.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2113  
 Delta R.T. 0.00 min  
 Lab File: VN060838.D  
 Acq: 2 Apr 2020 21:36

Tgt Ion: 114 Resp: 309411  
 Ion Ratio Lower Upper  
 114 100  
 63 22.0 0.0 43.8  
 88 16.1 0.0 33.0

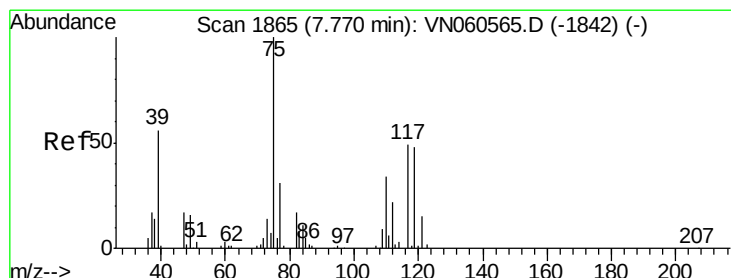
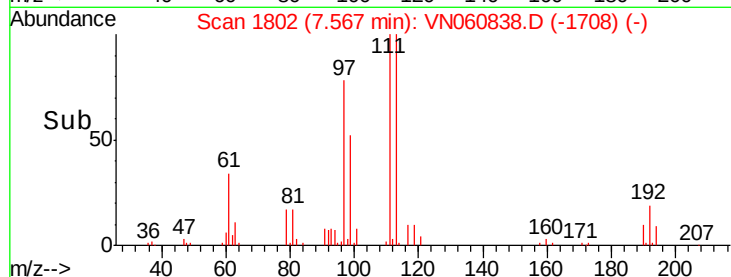
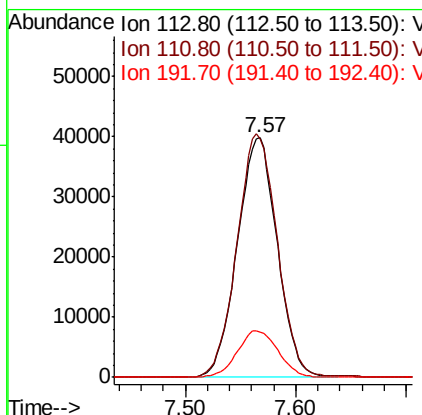
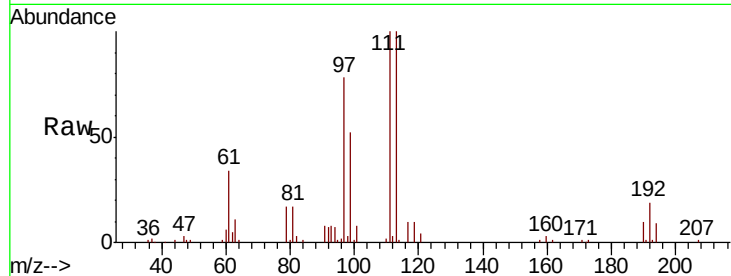




#35  
 Dibromofluoromethane  
 Concen: 53.368 ug/l  
 RT: 7.57 min Scan# 1802  
 Delta R.T. 0.00 min  
 Lab File: VN060838.D  
 Acq: 2 Apr 2020 21:36

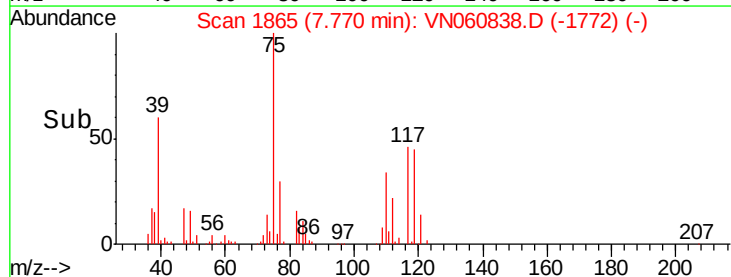
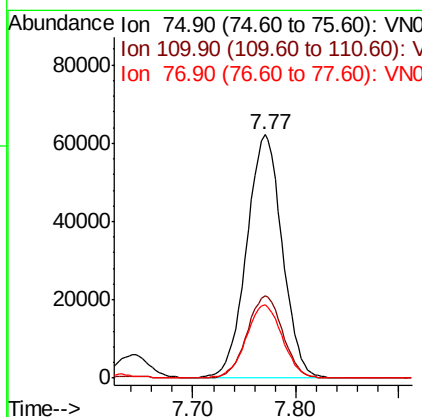
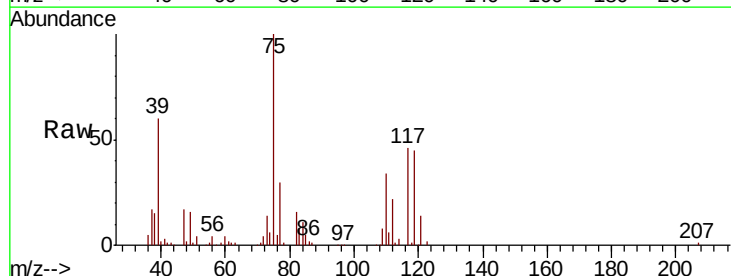
Instrument :  
 MSVOA\_N  
 ClientSampled :

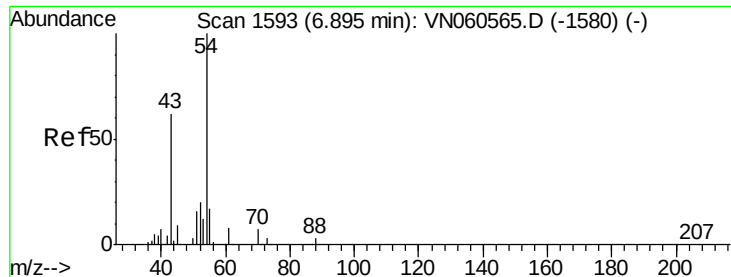
Tot Ion:113 Resp: 99847  
 Ion Ratio Lower Upper  
 113 100  
 111 102.7 82.9 124.3  
 192 19.8 15.8 23.8



#36  
 1,1-Dichloropropene  
 Concen: 49.703 ug/l  
 RT: 7.77 min Scan# 1865  
 Delta R.T. 0.00 min  
 Lab File: VN060838.D  
 Acq: 2 Apr 2020 21:36

Tgt Ion: 75 Resp: 148913  
 Ion Ratio Lower Upper  
 75 100  
 110 33.5 16.9 50.6  
 77 30.7 24.6 36.8

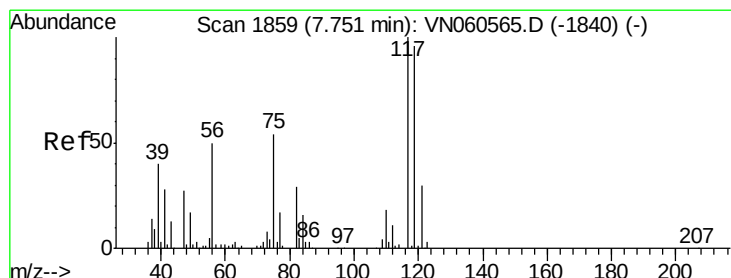
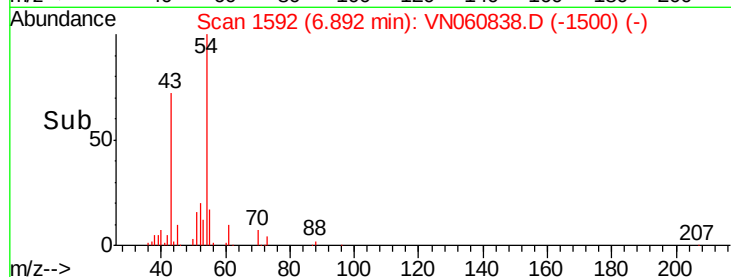
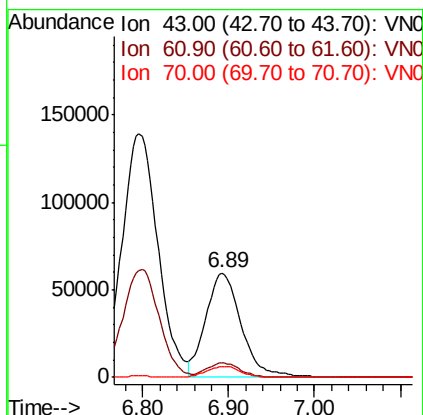
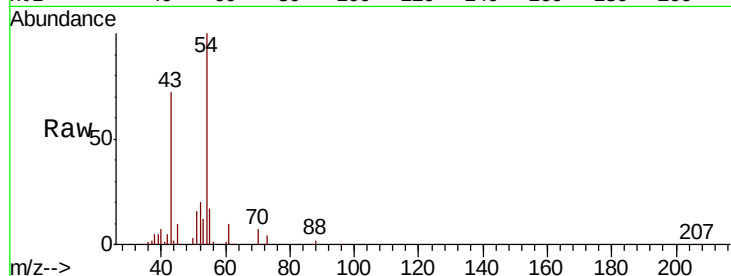




#37  
Ethyl Acetate  
Concen: 52.511 ug/l  
RT: 6.89 min Scan# 1592  
Delta R.T. -0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

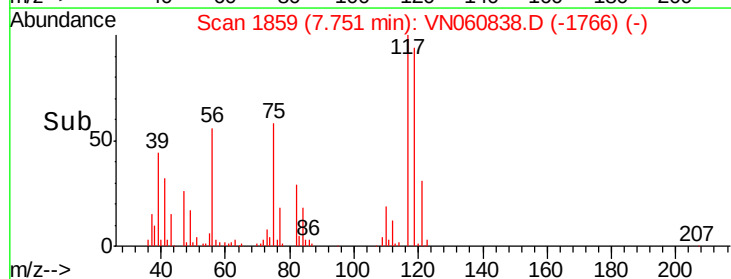
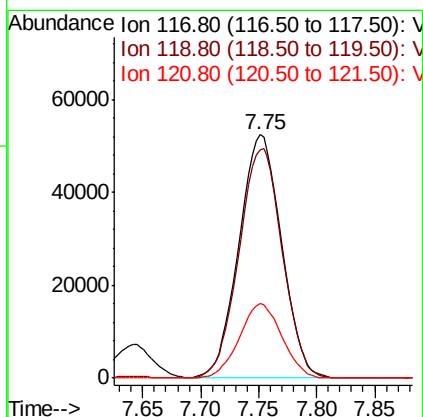
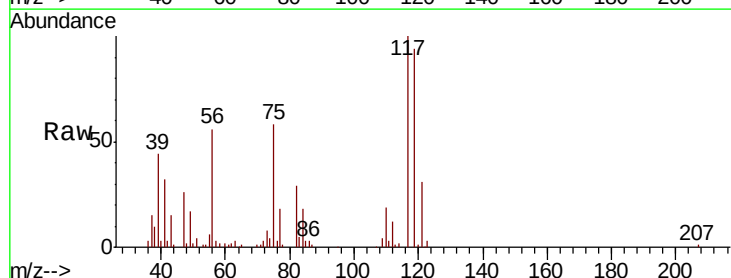
Instrument :  
MSVOA\_N  
ClientSampleId :

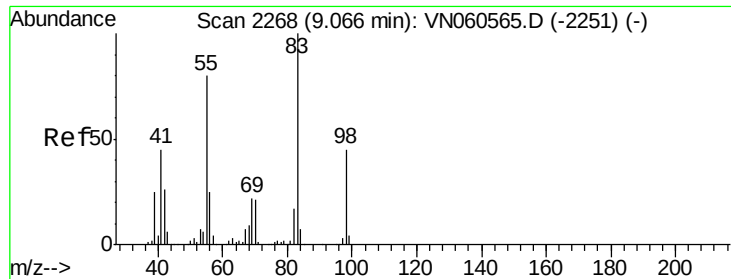
Tot Ion: 43 Resp: 169995  
Ion Ratio Lower Upper  
43 100  
61 13.6 10.6 15.8  
70 10.1 7.9 11.9



#38  
Carbon Tetrachloride  
Concen: 49.951 ug/l  
RT: 7.75 min Scan# 1859  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

Tgt Ion: 117 Resp: 134130  
Ion Ratio Lower Upper  
117 100  
119 93.9 76.2 114.2  
121 30.6 23.7 35.5

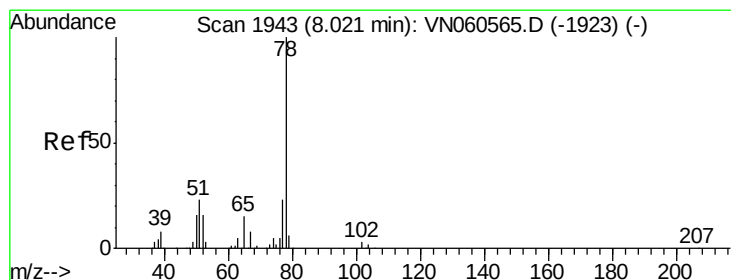
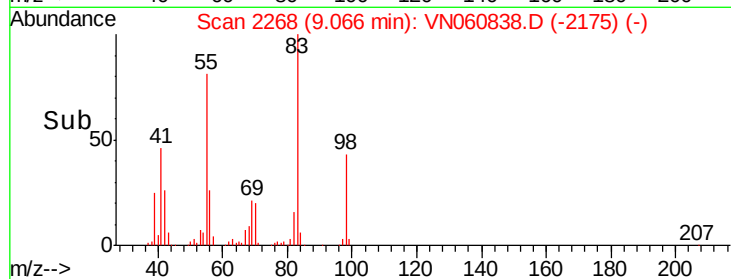
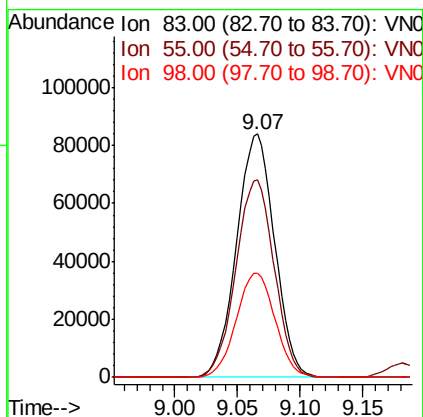
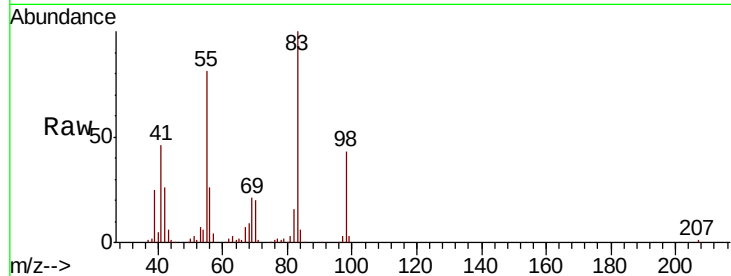




#39  
Methylvlcyclohexane  
Concen: 49.801 ug/l  
RT: 9.07 min Scan# 2268  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

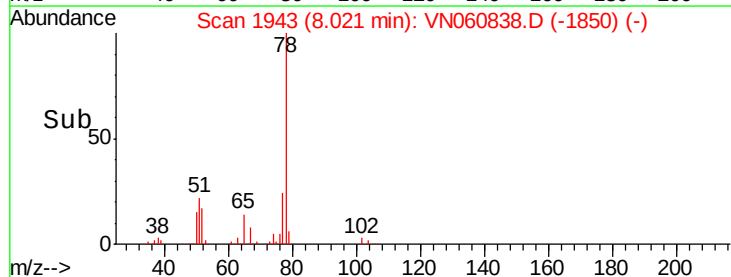
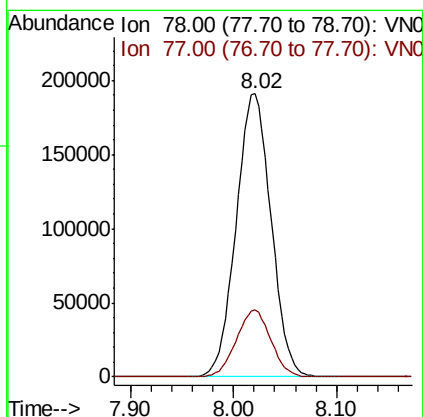
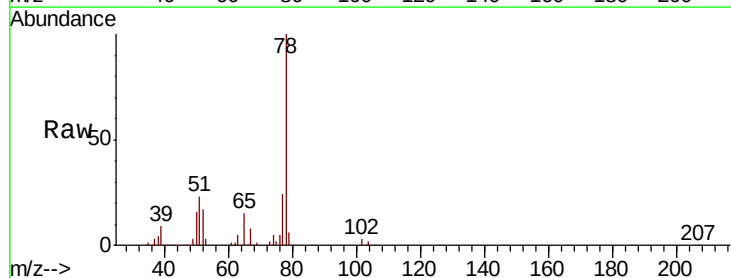
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 83 Resp: 177313  
Ion Ratio Lower Upper  
83 100  
55 80.9 63.6 95.4  
98 42.7 36.0 54.0

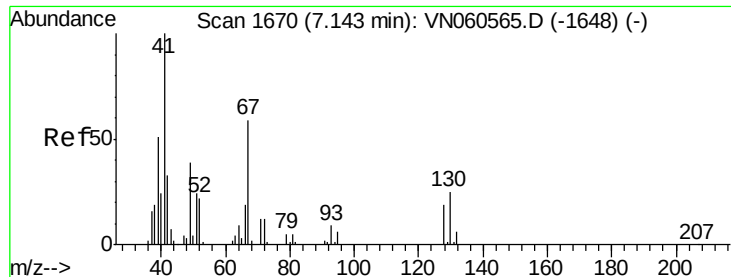


#40  
Benzene  
Concen: 49.684 ug/l  
RT: 8.02 min Scan# 1943  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

Tgt Ion: 78 Resp: 449358  
Ion Ratio Lower Upper  
78 100  
77 23.7 18.6 28.0



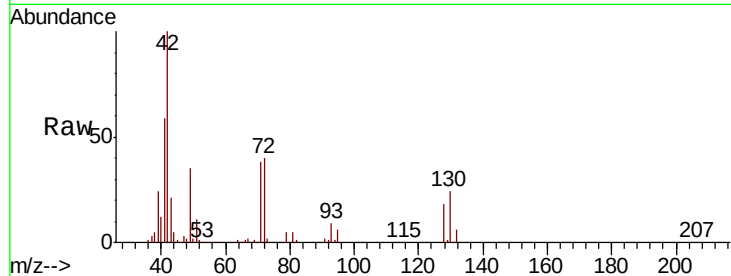




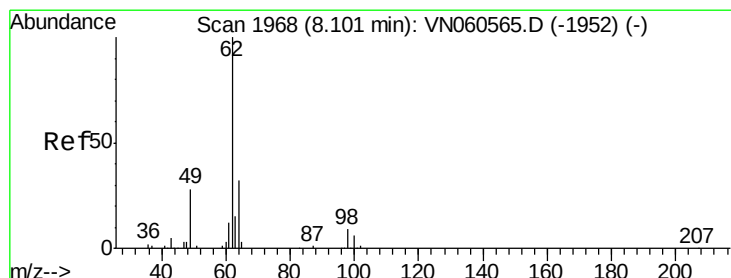
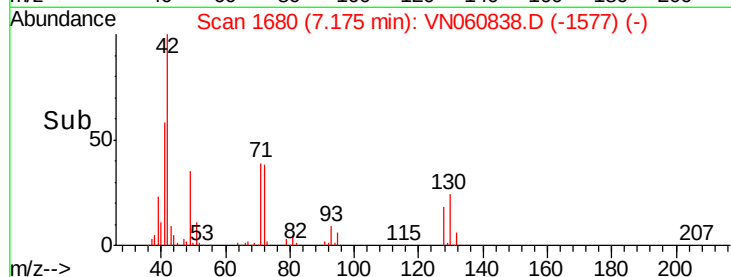
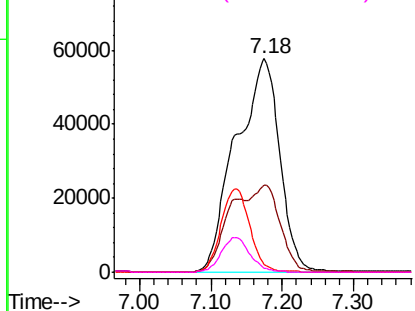
#41  
Methacrylonitrile  
Concen: 177.946 ug/l  
RT: 7.18 min Scan# 1680  
Delta R.T. 0.03 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

Instrument :  
MSVOA\_N  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 41    | Resp: | 245848 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 39       | 0.0   | 0.0   | 0.0    |
| 67       | 0.0   | 0.0   | 0.0    |
| 52       | 0.0   | 0.0   | 0.0    |

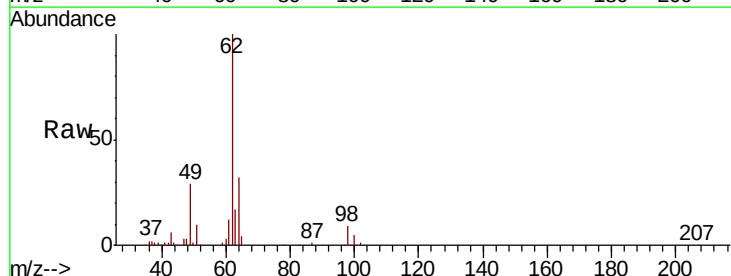


Abundance Ion 41.00 (40.70 to 41.70): VN0  
Ion 39.00 (38.70 to 39.70): VN0  
Ion 67.00 (66.70 to 67.70): VN0  
Ion 52.00 (51.70 to 52.70): VN0

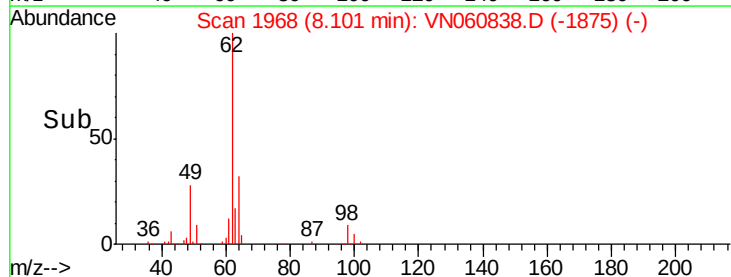
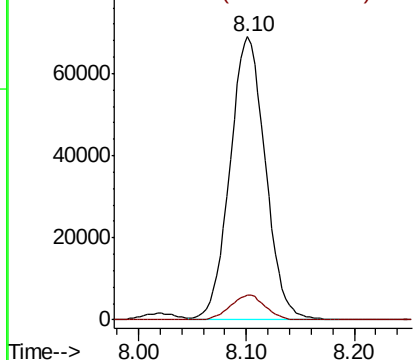


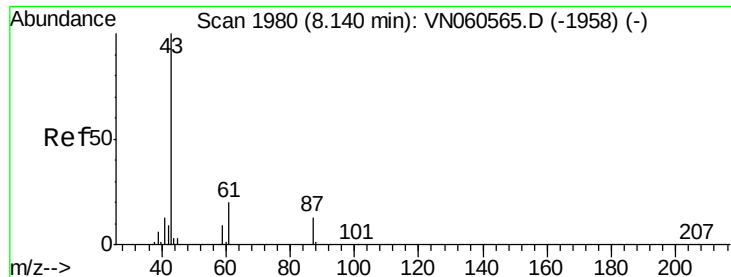
#42  
1,2-Dichloroethane  
Concen: 51.056 ug/l  
RT: 8.10 min Scan# 1968  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 157810 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 8.7   | 0.0   | 17.8   |



Abundance Ion 61.90 (61.60 to 62.60): VN0  
Ion 97.90 (97.60 to 98.60): VN0

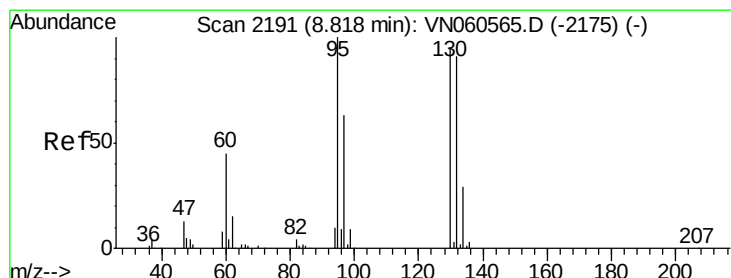
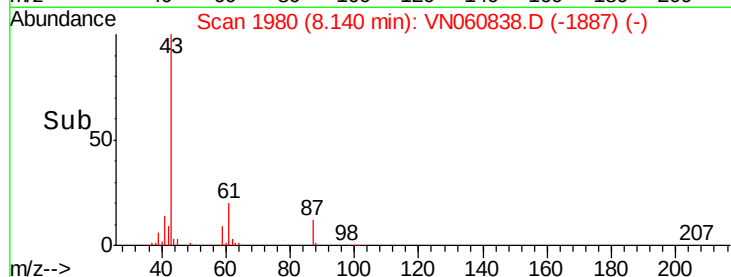
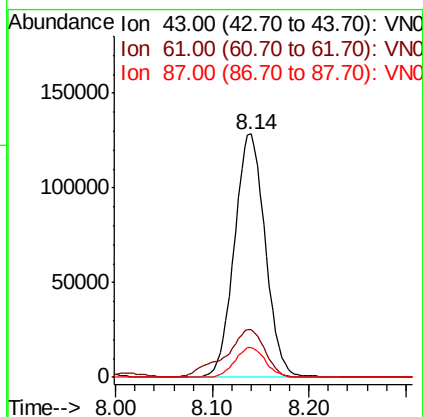
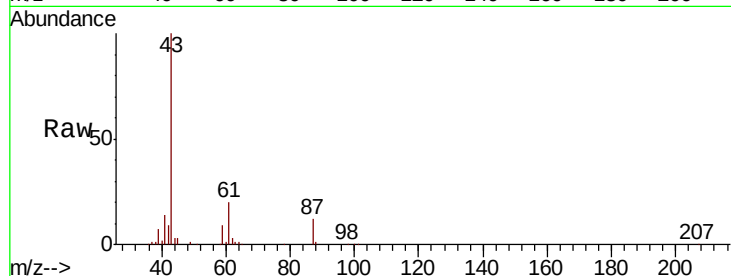




#43  
Isopropyl Acetate  
Concen: 53.388 ug/l  
RT: 8.14 min Scan# 1980  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

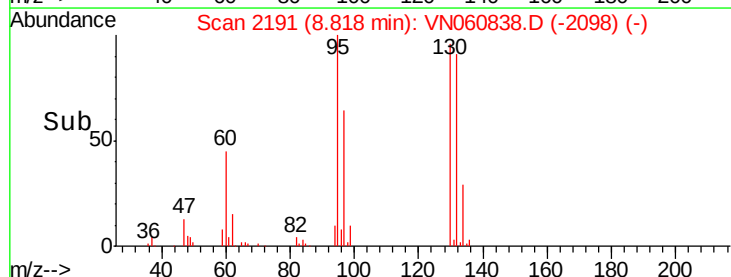
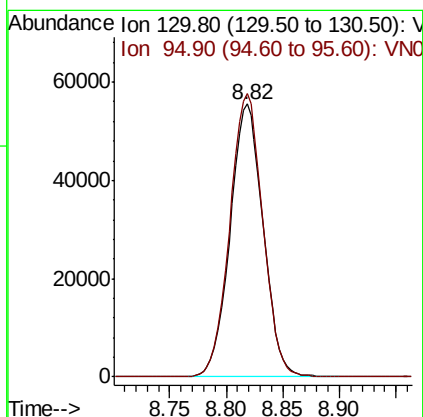
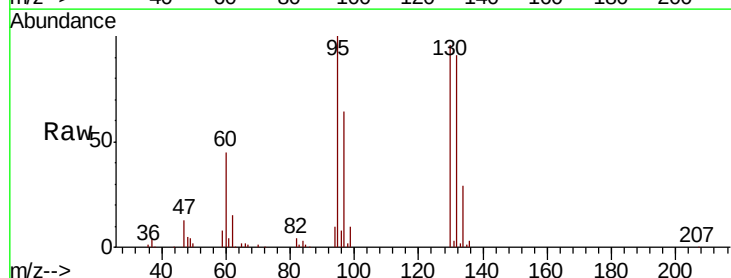
Instrument :  
MSVOA\_N  
ClientSampleId :

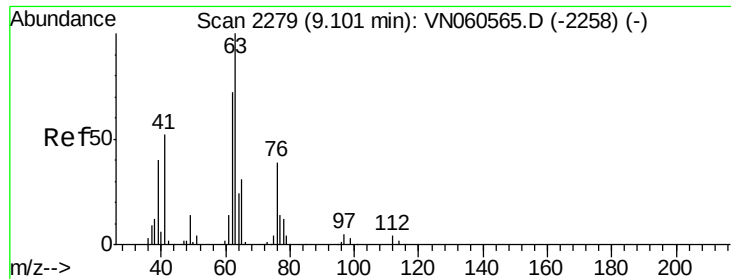
Tot Ion: 43 Resp: 285038  
Ion Ratio Lower Upper  
43 100  
61 25.6 20.7 31.1  
87 12.1 9.8 14.8



#44  
Trichloroethene  
Concen: 49.551 ug/l  
RT: 8.82 min Scan# 2191  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

Tgt Ion:130 Resp: 112975  
Ion Ratio Lower Upper  
130 100  
95 103.7 0.0 211.2

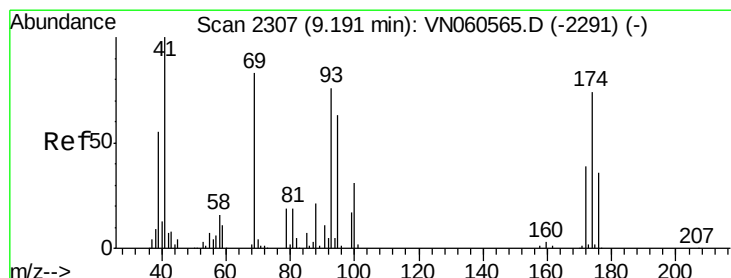
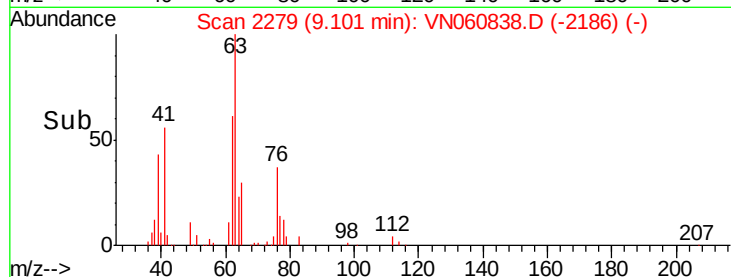
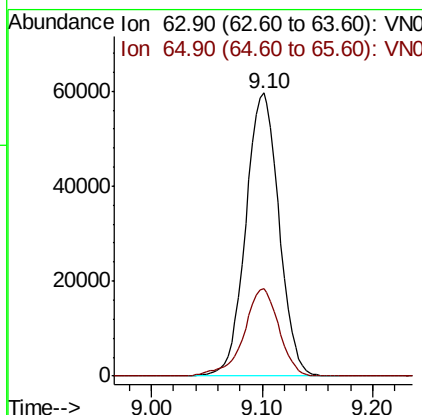
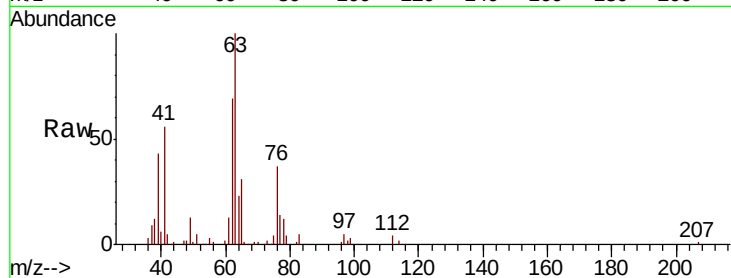




#45  
 1,2-Dichloropropane  
 Concen: 52.123 ug/l  
 RT: 9.10 min Scan# 2279  
 Delta R.T. 0.00 min  
 Lab File: VN060838.D  
 Acq: 2 Apr 2020 21:36

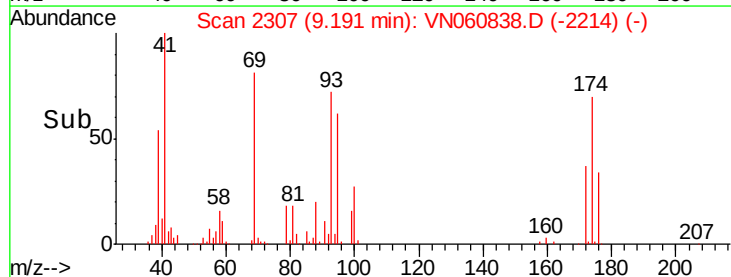
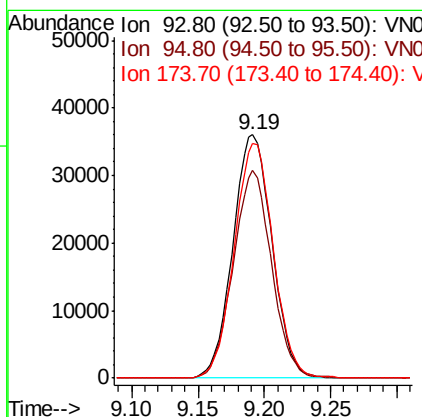
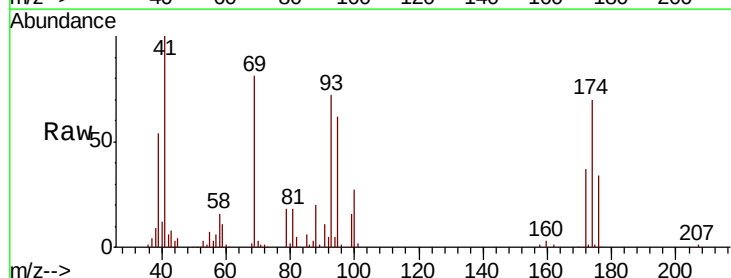
Instrument :  
 MSVOA\_N  
 ClientSampleId :

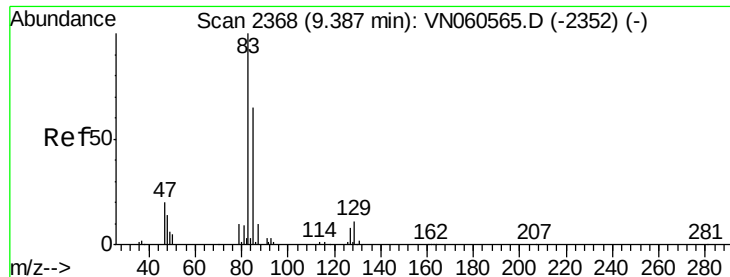
Tot Ion: 63 Resp: 124393  
 Ion Ratio Lower Upper  
 63 100  
 65 30.8 25.4 38.0



#46  
 Dibromomethane  
 Concen: 51.271 ug/l  
 RT: 9.19 min Scan# 2307  
 Delta R.T. 0.00 min  
 Lab File: VN060838.D  
 Acq: 2 Apr 2020 21:36

Tgt Ion: 93 Resp: 73974  
 Ion Ratio Lower Upper  
 93 100  
 95 83.4 66.2 99.4  
 174 96.0 77.9 116.9





#47

Bromodichloromethane

Concen: 52.008 ug/l

RT: 9.39 min Scan# 2368

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

Instrument :  
MSVOA\_N  
ClientSampled :

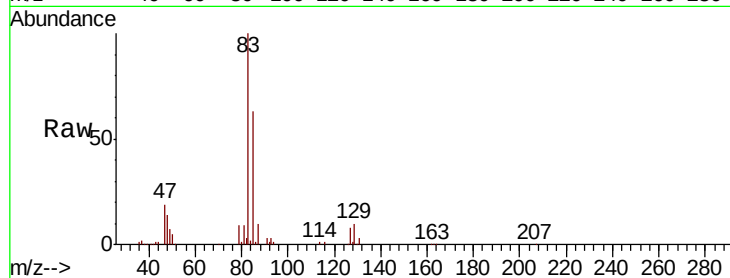
Tot Ion: 83 Resp: 155926

Ion Ratio Lower Upper

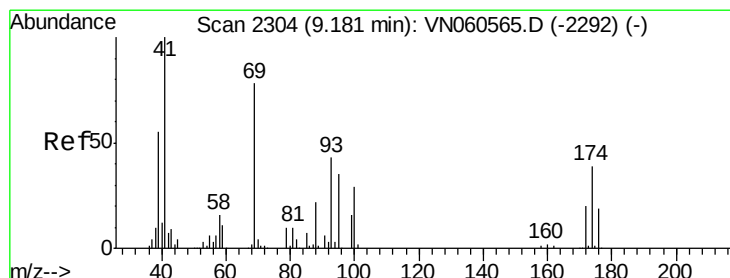
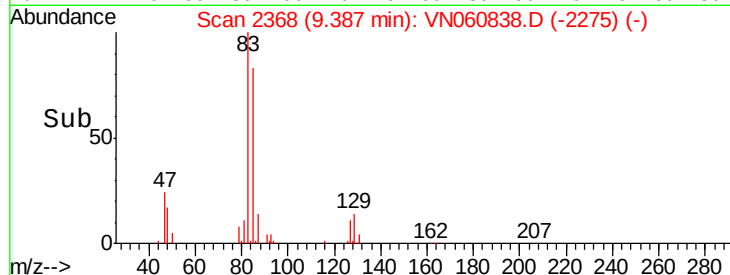
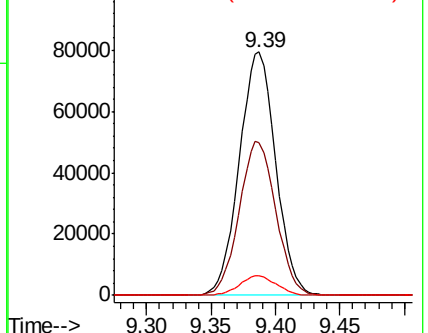
83 100

85 62.8 51.8 77.6

127 8.1 6.5 9.7



Abundance Ion 82.90 (82.60 to 83.60): VN0  
Ion 84.90 (84.60 to 85.60): VN0  
Ion 126.80 (126.50 to 127.50): VN0



#48

Methyl methacrylate

Concen: 53.016 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

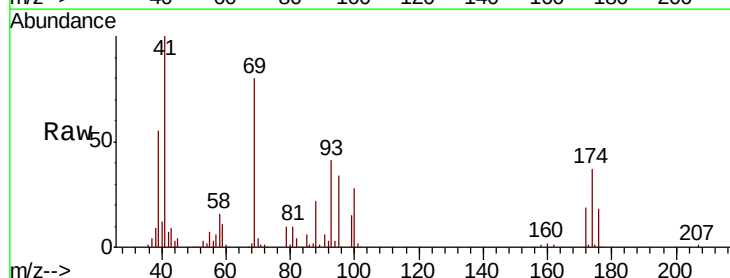
Tgt Ion: 41 Resp: 126022

Ion Ratio Lower Upper

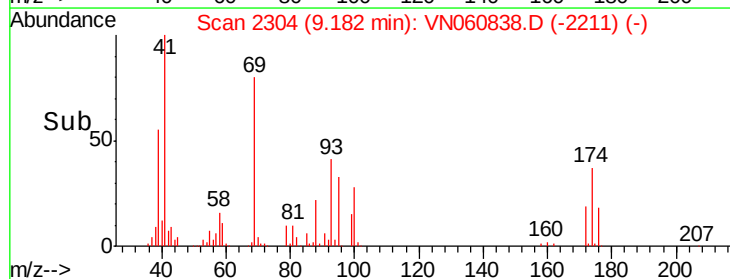
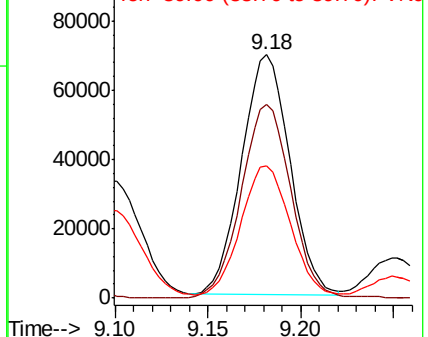
41 100

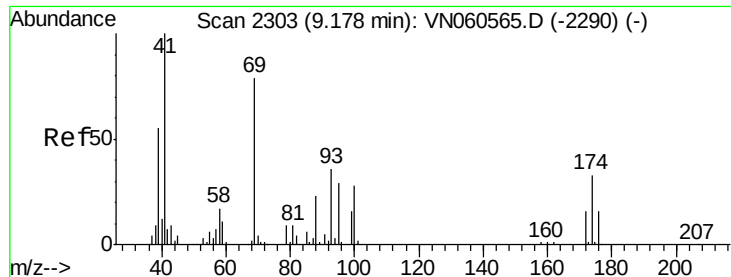
69 83.0 65.4 98.0

39 57.4 44.0 66.0



Abundance Ion 41.00 (40.70 to 41.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 39.00 (38.70 to 39.70): VN0

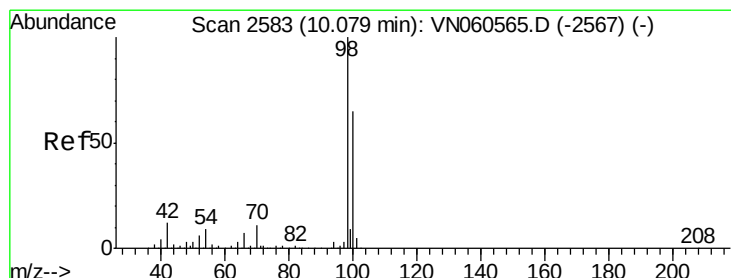
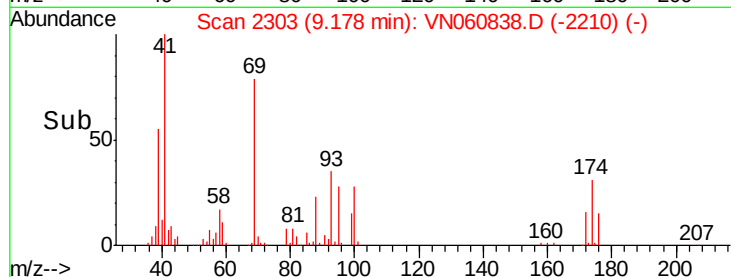
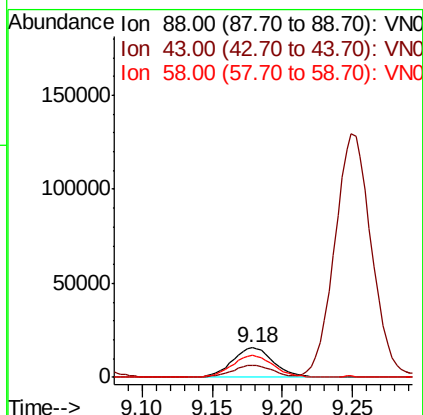
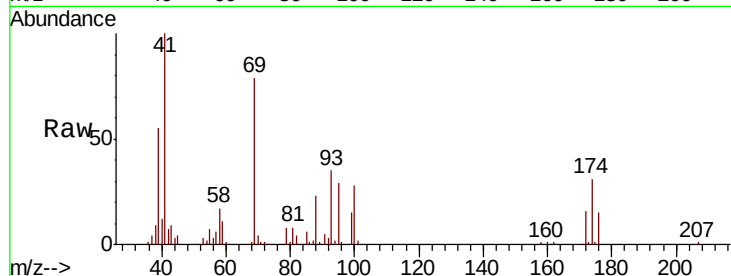




#49  
1,4-Dioxane  
Concen: 1148.899 ug/l  
RT: 9.18 min Scan# 2303  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

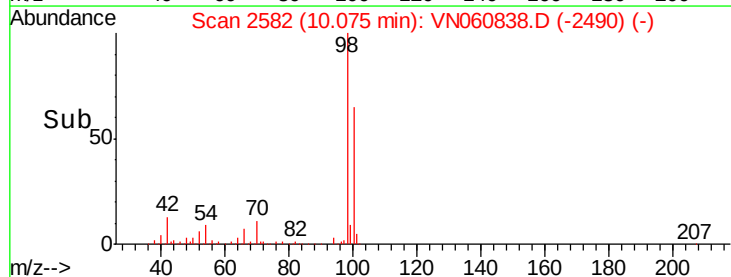
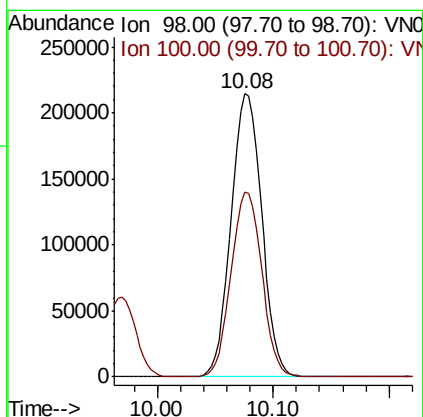
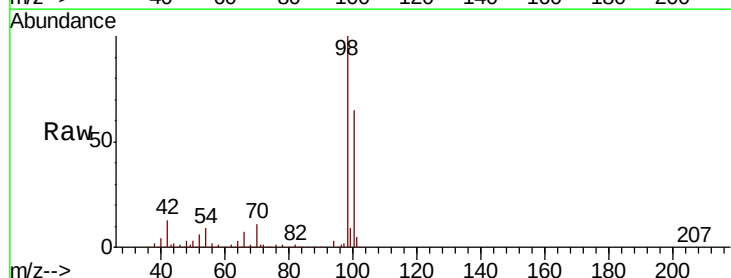
Instrument :  
MSVOA\_N  
ClientSampleId :

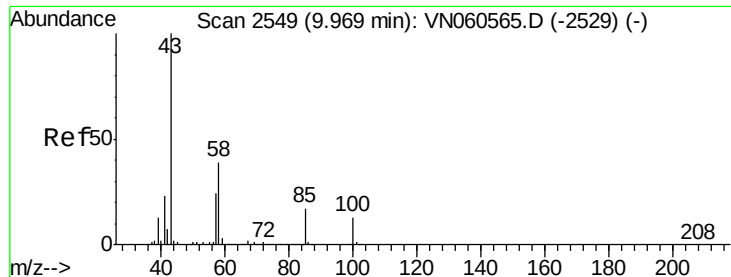
Tot Ion: 88 Resp: 32461  
Ion Ratio Lower Upper  
88 100  
43 38.6 30.8 46.2  
58 74.0 59.8 89.8



#50  
Toluene-d8  
Concen: 51.412 ug/l  
RT: 10.08 min Scan# 2582  
Delta R.T. -0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

Tgt Ion: 98 Resp: 392885  
Ion Ratio Lower Upper  
98 100  
100 65.5 51.8 77.8

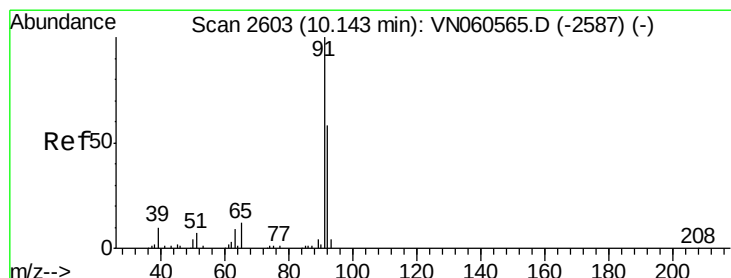
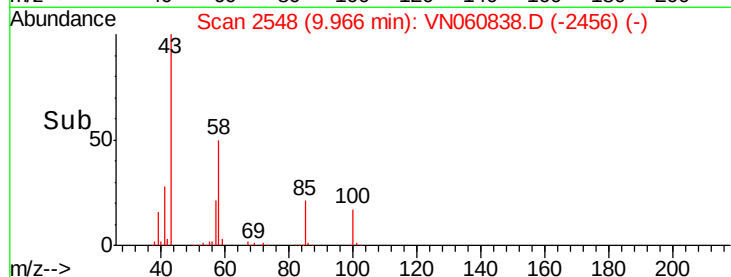
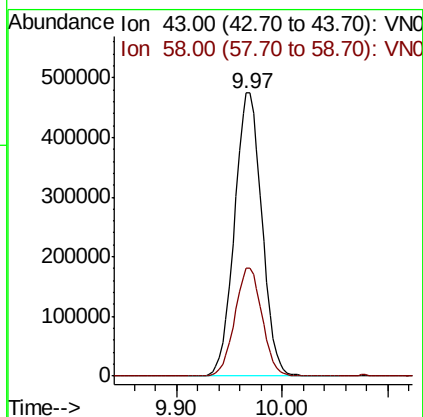
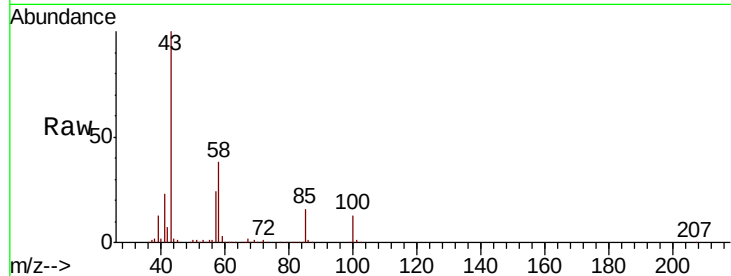




#51  
 4-Methyl-2-Pentanone  
 Concen: 280.430 ug/l  
 RT: 9.97 min Scan# 2548  
 Delta R.T. -0.00 min  
 Lab File: VN060838.D  
 Acq: 2 Apr 2020 21:36

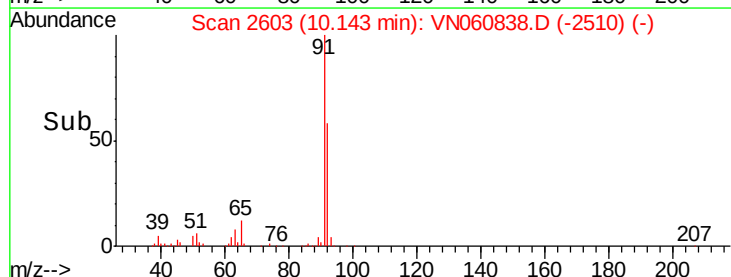
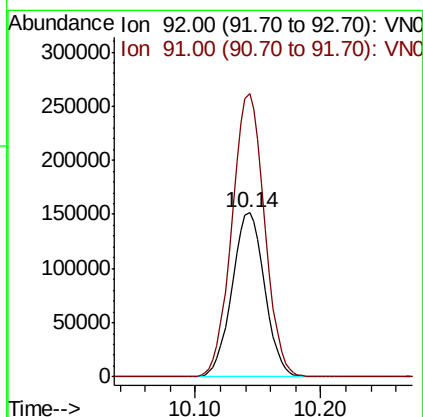
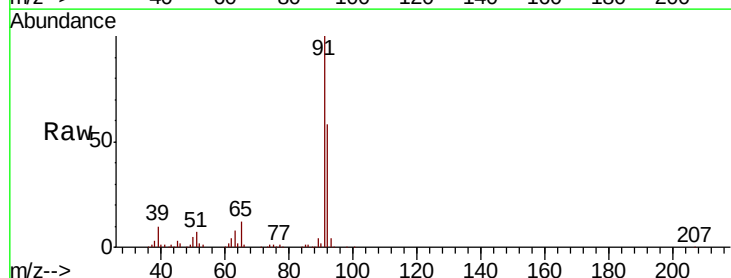
Instrument :  
 MSVOA\_N  
 ClientSampled :

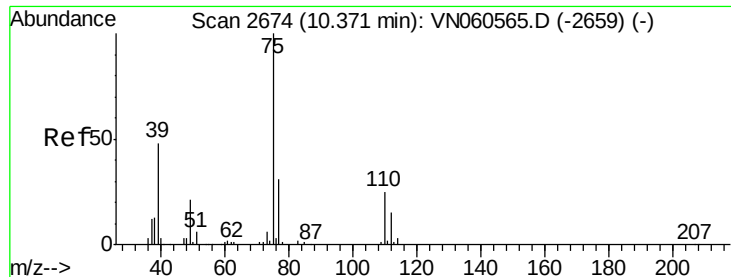
Tot Ion: 43 Resp: 851973  
 Ion Ratio Lower Upper  
 43 100  
 58 38.0 30.8 46.2



#52  
 Toluene  
 Concen: 50.047 ug/l  
 RT: 10.14 min Scan# 2603  
 Delta R.T. 0.00 min  
 Lab File: VN060838.D  
 Acq: 2 Apr 2020 21:36

Tgt Ion: 92 Resp: 273365  
 Ion Ratio Lower Upper  
 92 100  
 91 172.7 137.6 206.4





#53

t-1,3-Dichloropropene

Concen: 51.305 ug/l

RT: 10.37 min Scan# 2674

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

Instrument :

MSVOA\_N

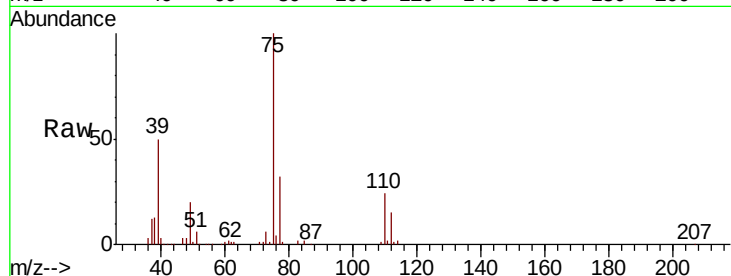
ClientSampled :

Tot Ion: 75 Resp: 176690

Ion Ratio Lower Upper

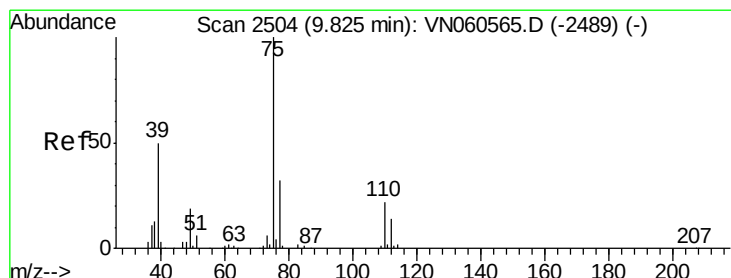
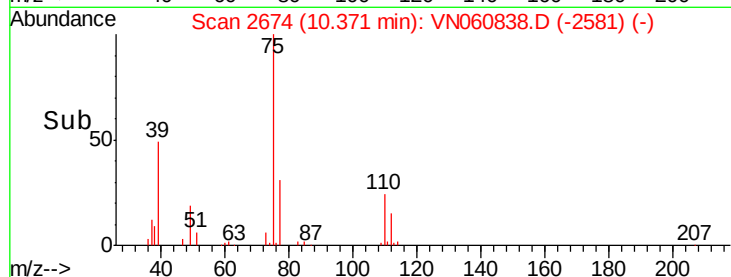
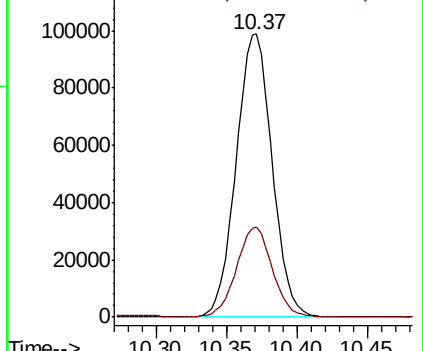
75 100

77 31.4 25.1 37.7



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 50.277 ug/l

RT: 9.82 min Scan# 2504

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

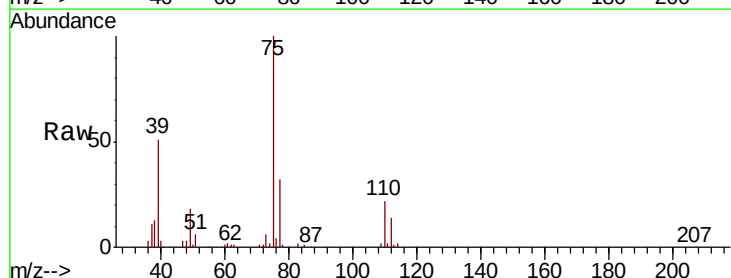
Tgt Ion: 75 Resp: 189951

Ion Ratio Lower Upper

75 100

77 32.2 25.4 38.0

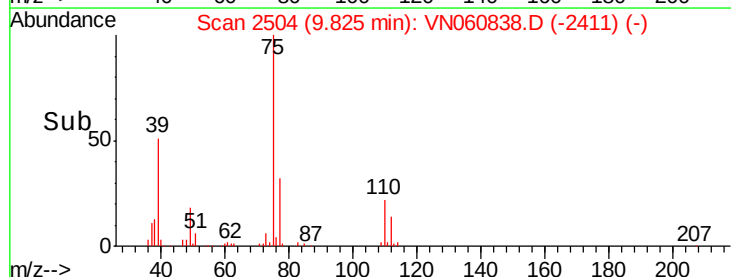
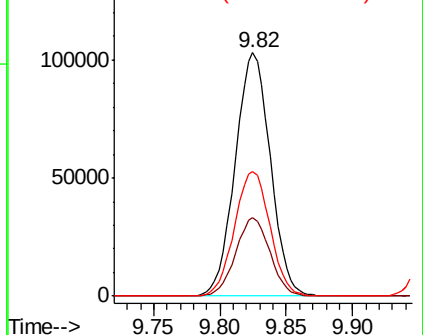
39 51.3 40.2 60.4

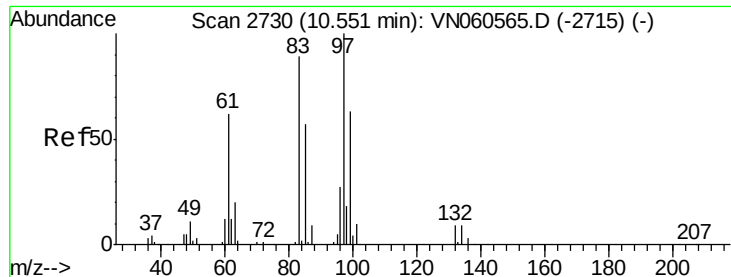


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#55

1,1,2-Trichloroethane

Concen: 51.434 ug/l

RT: 10.55 min Scan# 2730

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

Instrument :

MSVOA\_N

ClientSampleId :

Tot Ion: 97 Resp: 108083

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 88.7  | 71.3  | 106.9 |
| 85  | 56.7  | 45.2  | 67.8  |
| 99  | 61.8  | 50.1  | 75.1  |

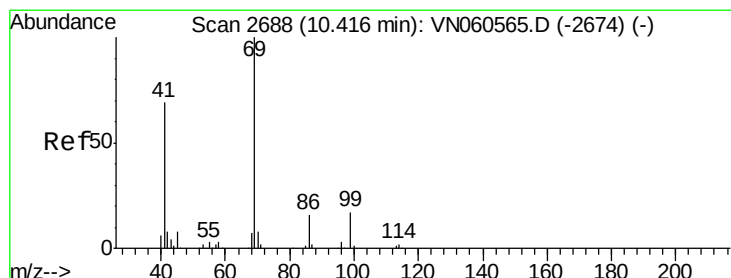
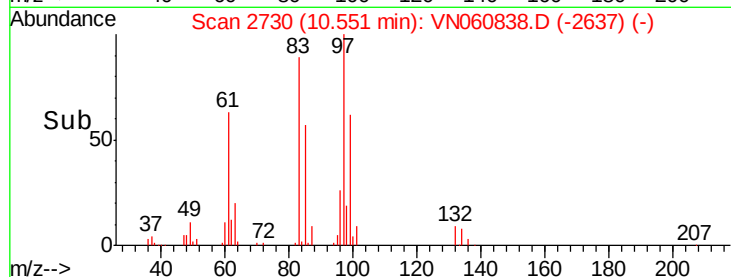
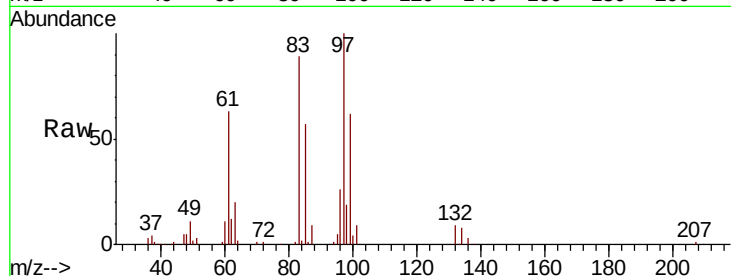
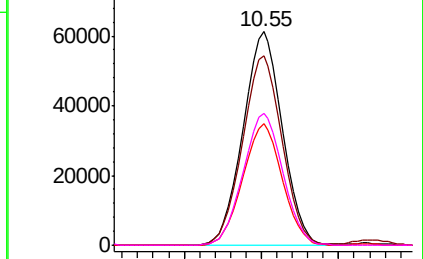
Abundance

Ion 96.90 (96.60 to 97.60): VNO

Ion 82.90 (82.60 to 83.60): VNO

Ion 84.90 (84.60 to 85.60): VNO

Ion 98.90 (98.60 to 99.60): VNO



#56

Ethyl methacrylate

Concen: 54.277 ug/l

RT: 10.42 min Scan# 2688

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

Tgt Ion: 69 Resp: 177841

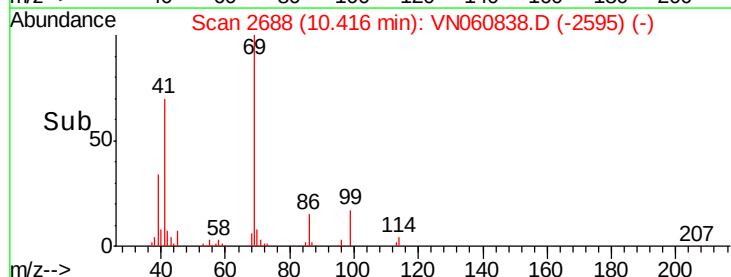
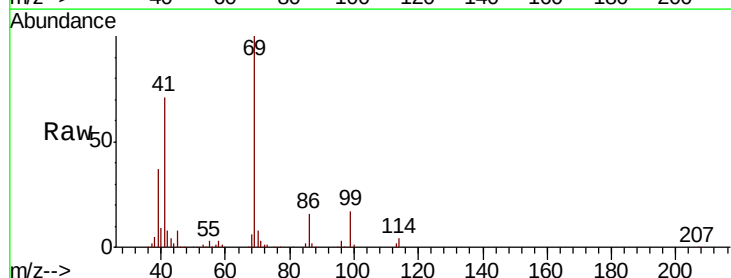
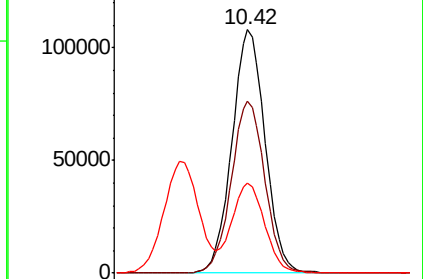
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 71.0  | 55.4  | 83.2  |
| 39  | 36.9  | 29.4  | 44.0  |

Abundance

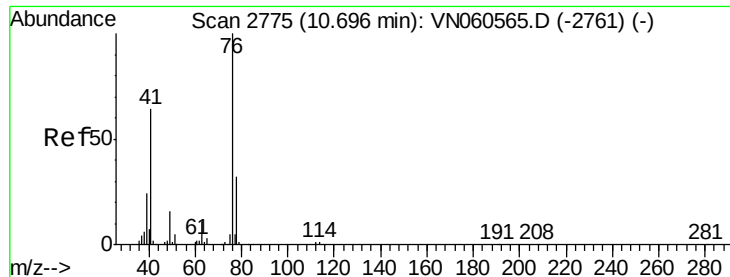
Ion 69.00 (68.70 to 69.70): VNO

Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO







#57

1,3-Dichloropropane

Concen: 52.289 ug/l

RT: 10.70 min Scan# 2775

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

Instrument :

MSVOA\_N

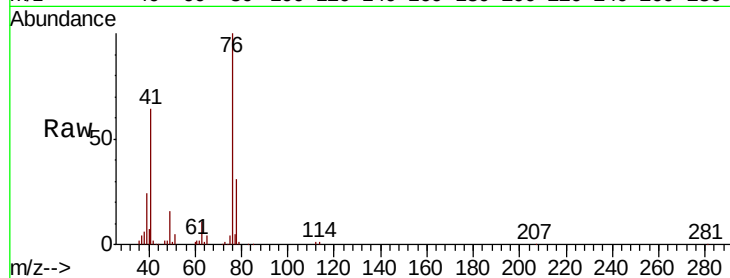
ClientSampled :

Tot Ion: 76 Resp: 190675

Ion Ratio Lower Upper

76 100

78 31.3 25.8 38.6



Abundance Ion 75.90 (75.60 to 76.60): VN060838.D (-2682) (-)

Ion 77.90 (77.60 to 78.60): VN060838.D (-2682) (-)

10.70

120000

100000

80000

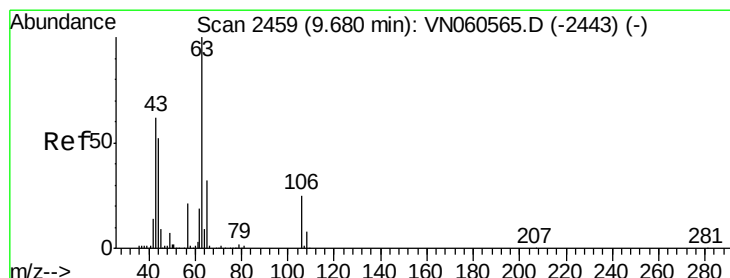
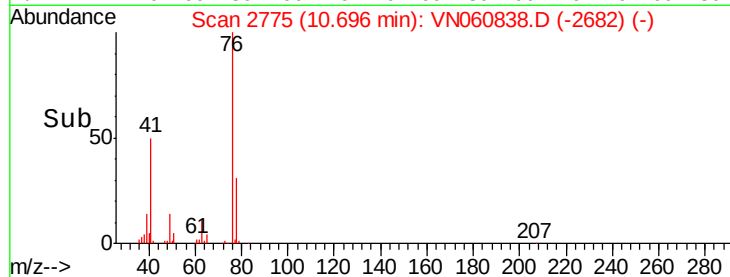
60000

40000

20000

0

Time--> 10.60 10.70 10.80



#58

2-Chloroethyl Vinyl ether

Concen: 250.767 ug/l

RT: 9.68 min Scan# 2459

Delta R.T. 0.00 min

Lab File: VN060838.D

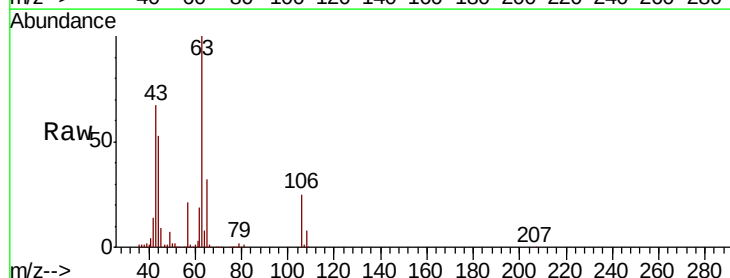
Acq: 2 Apr 2020 21:36

Tgt Ion: 63 Resp: 408368

Ion Ratio Lower Upper

63 100

106 24.6 20.0 30.0



Abundance Ion 62.90 (62.60 to 63.60): VN060838.D (-2366) (-)

Ion 105.90 (105.60 to 106.60): VN060838.D (-2366) (-)

9.68

250000

200000

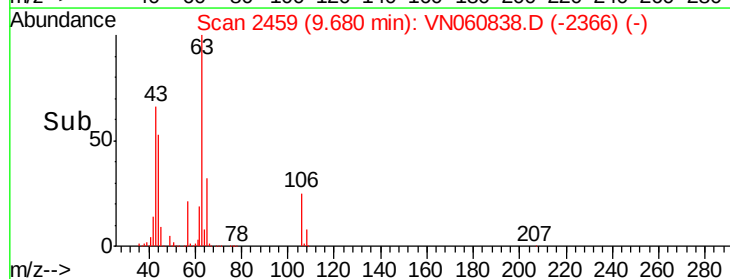
150000

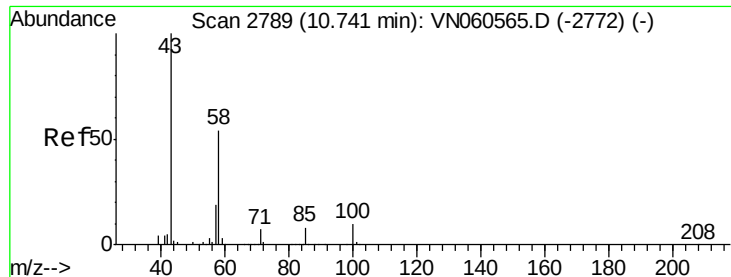
100000

50000

0

Time--> 9.60 9.70 9.80

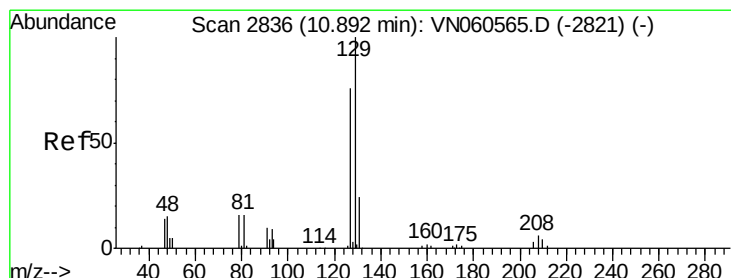
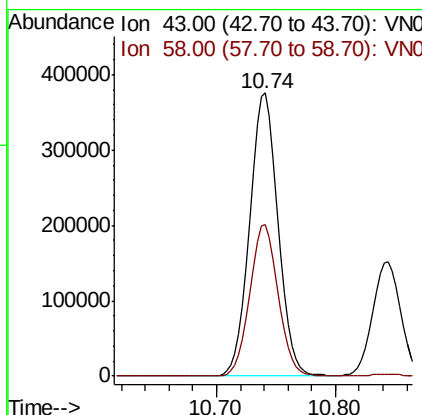
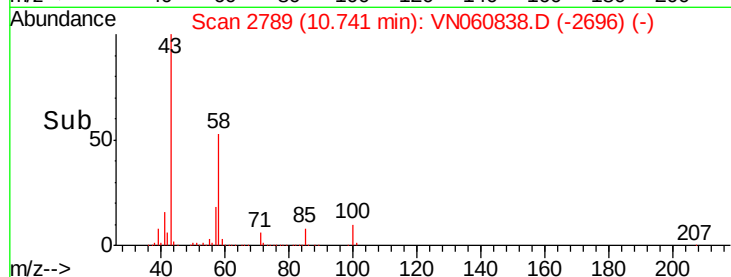
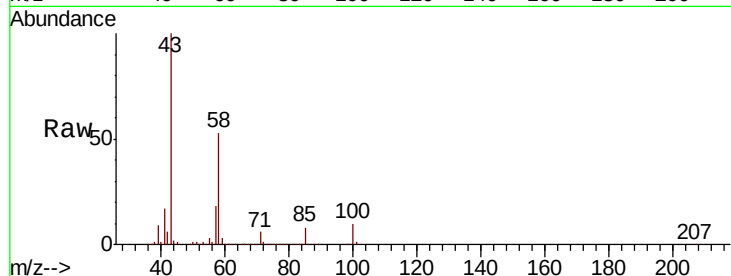




#59  
2-Hexanone  
Concen: 282.695 ug/l  
RT: 10.74 min Scan# 2789  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

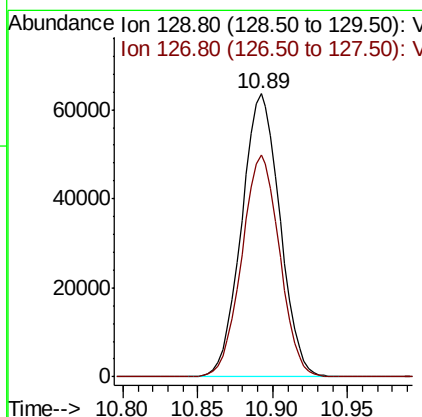
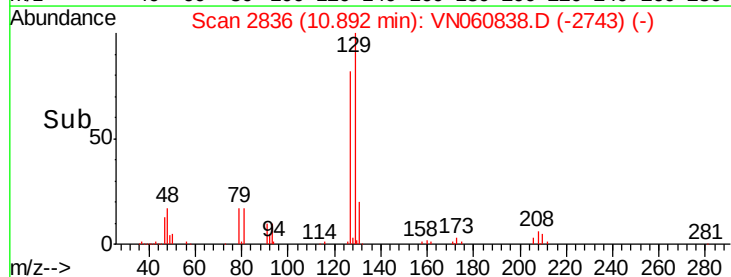
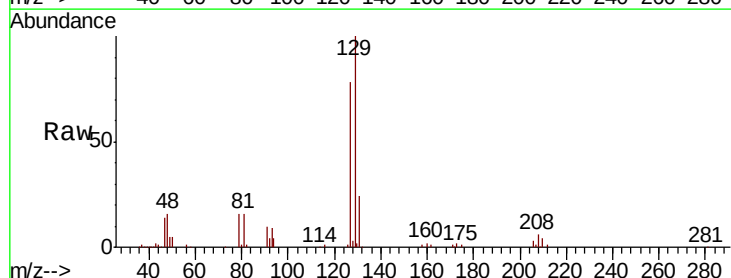
Instrument :  
MSVOA\_N  
ClientSampled :

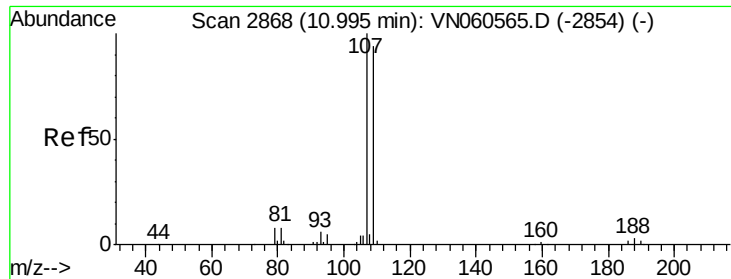
Tot Ion: 43 Resp: 618677  
Ion Ratio Lower Upper  
43 100  
58 53.6 26.7 80.1



#60  
Dibromochloromethane  
Concen: 52.290 ug/l  
RT: 10.89 min Scan# 2836  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

Tgt Ion: 129 Resp: 113502  
Ion Ratio Lower Upper  
129 100  
127 77.2 38.5 115.5





#61

1,2-Dibromoethane

Concen: 51.939 ug/l

RT: 10.99 min Scan# 2868

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

Instrument :

MSVOA\_N

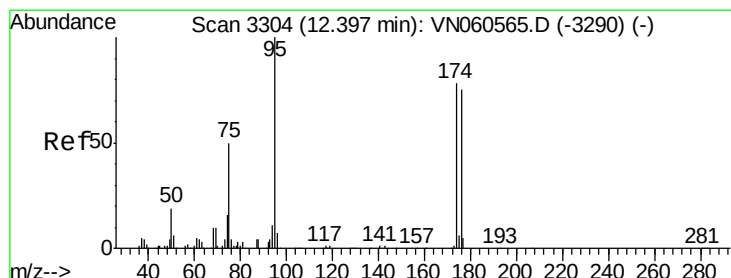
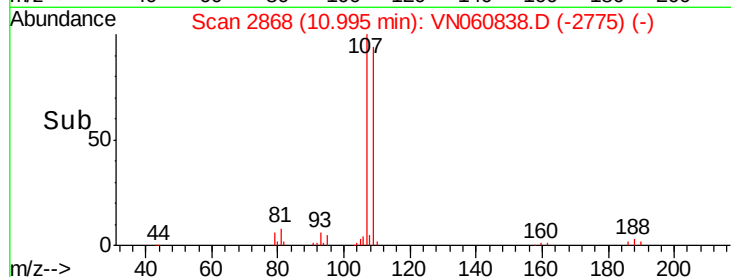
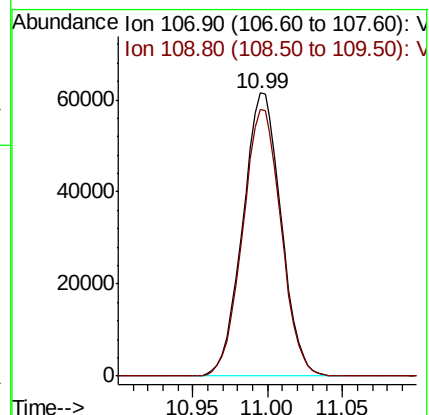
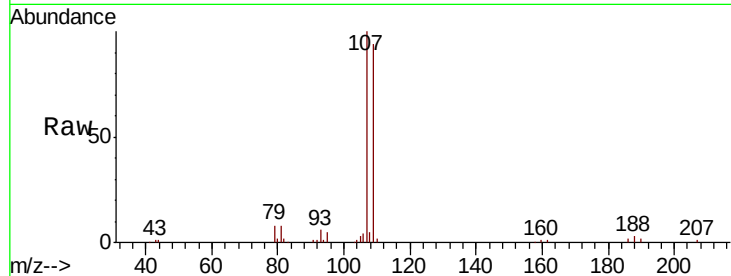
ClientSampleId :

Tot Ion:107 Resp: 109750

Ion Ratio Lower Upper

107 100

109 94.6 75.4 113.2



#62

4-Bromofluorobenzene

Concen: 52.995 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

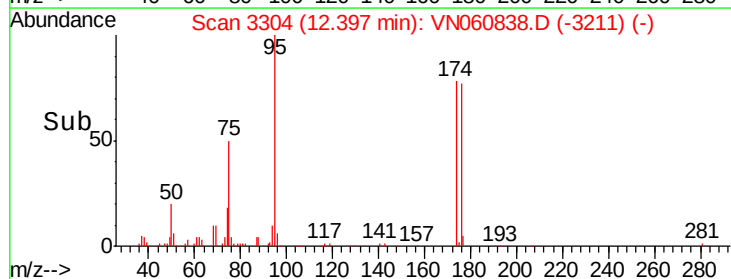
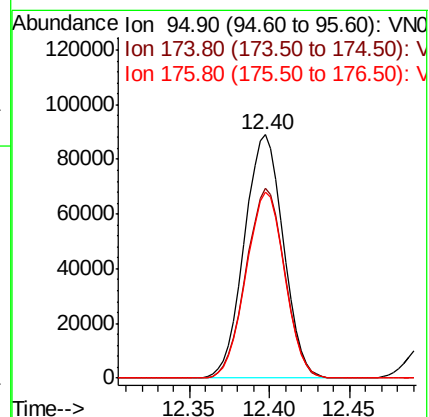
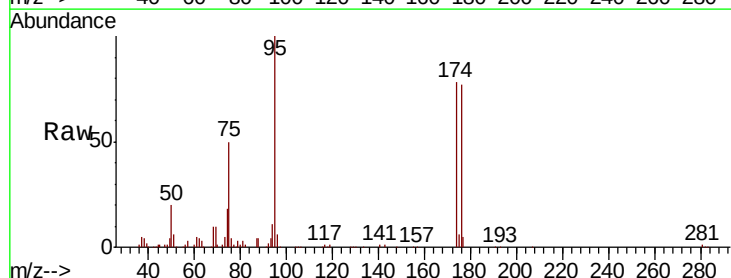
Tgt Ion: 95 Resp: 148421

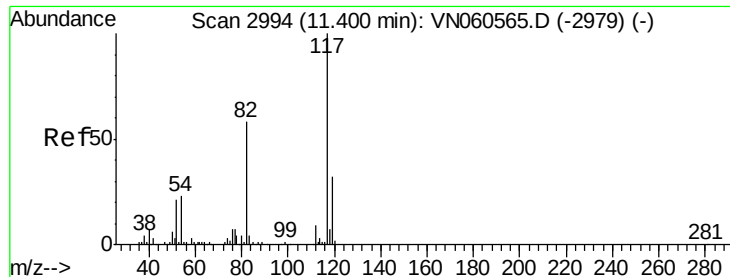
Ion Ratio Lower Upper

95 100

174 77.5 0.0 157.6

176 76.0 0.0 150.6

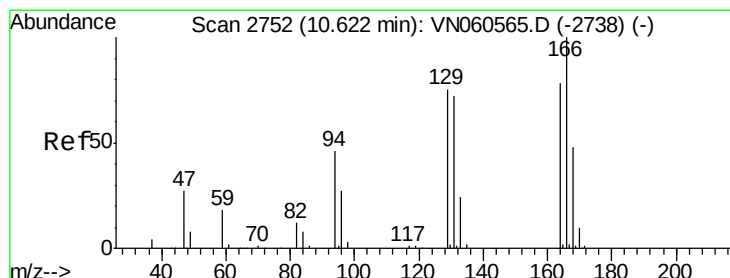
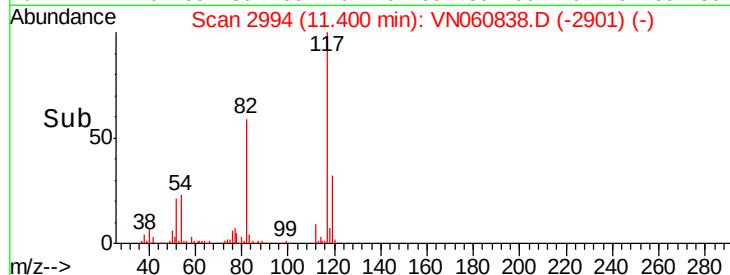
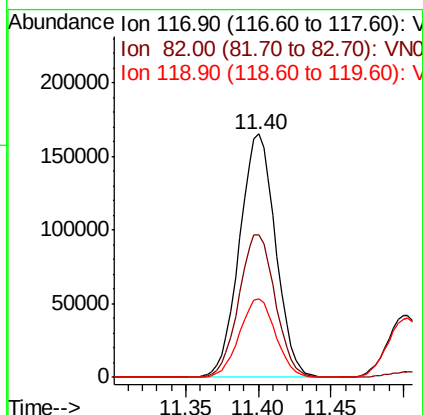
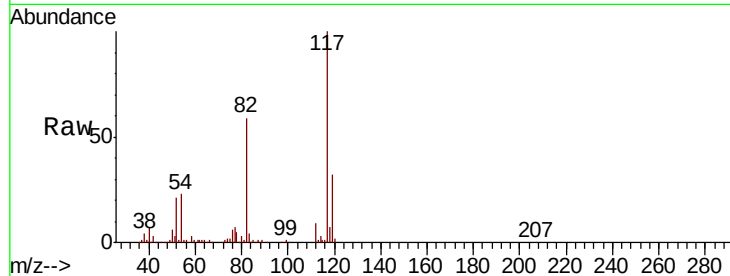




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2994  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

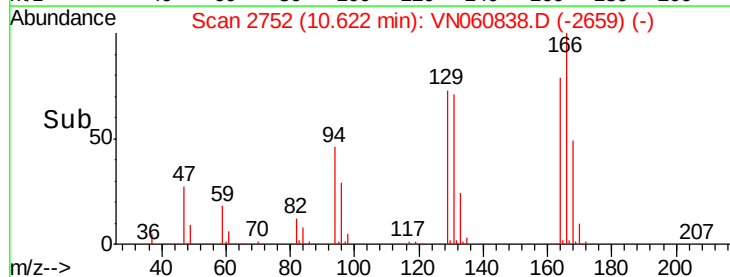
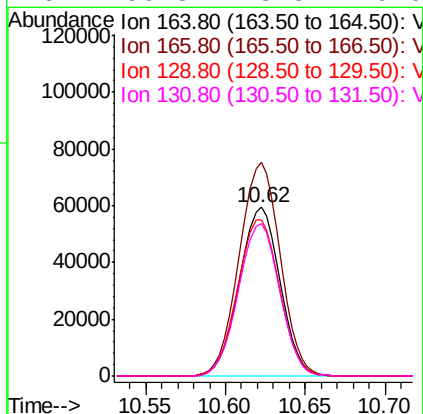
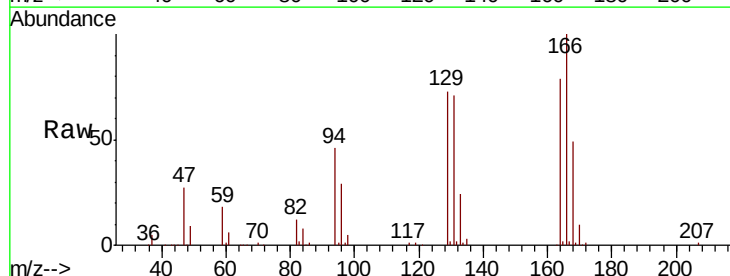
Instrument :  
MSVOA\_N  
ClientSampled :

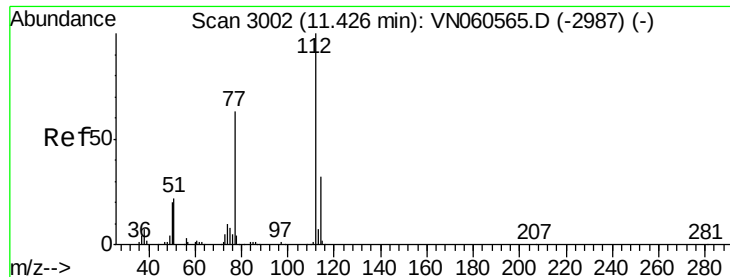
Tot Ion:117 Resp: 286028  
Ion Ratio Lower Upper  
117 100  
82 58.7 46.7 70.1  
119 32.4 25.5 38.3



#64  
Tetrachloroethene  
Concen: 45.982 ug/l  
RT: 10.62 min Scan# 2752  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

Tgt Ion:164 Resp: 103497  
Ion Ratio Lower Upper  
164 100  
166 126.6 102.7 154.1  
129 92.9 77.2 115.8  
131 90.3 73.8 110.6

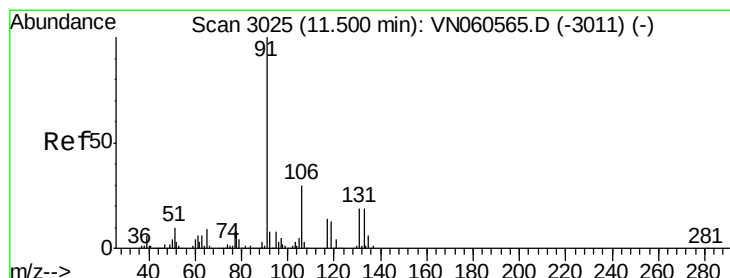
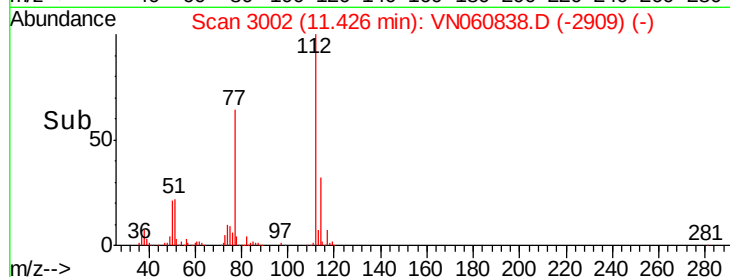
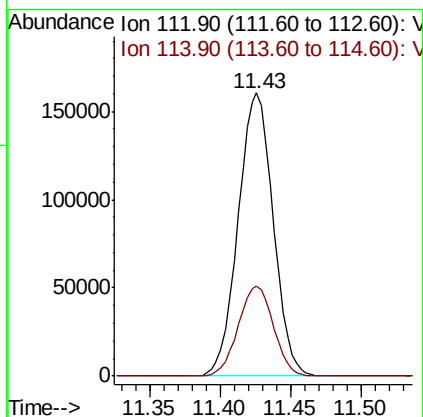
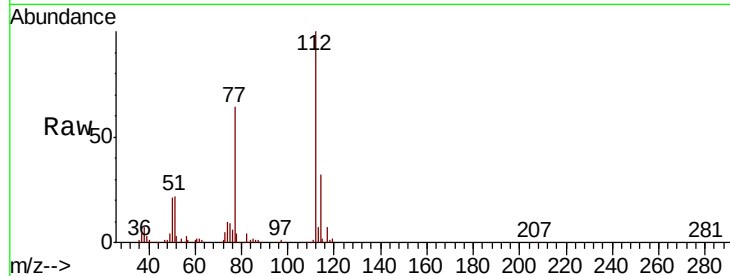




#65  
Chlorobenzene  
Concen: 49.297 ug/l  
RT: 11.43 min Scan# 3002  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

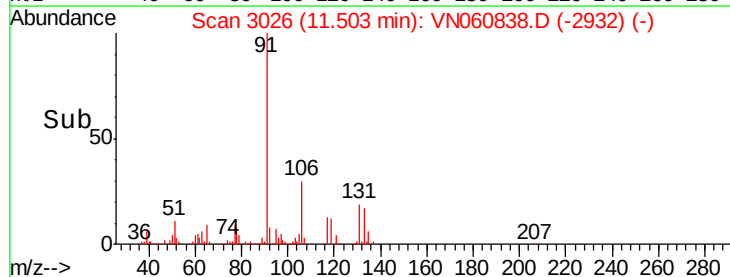
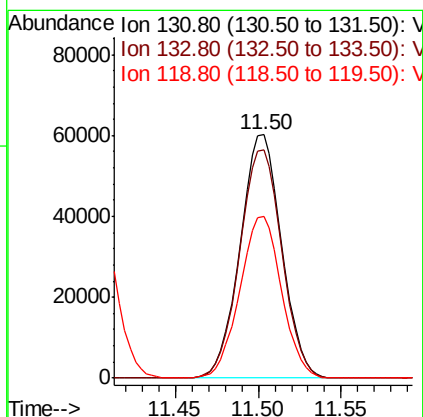
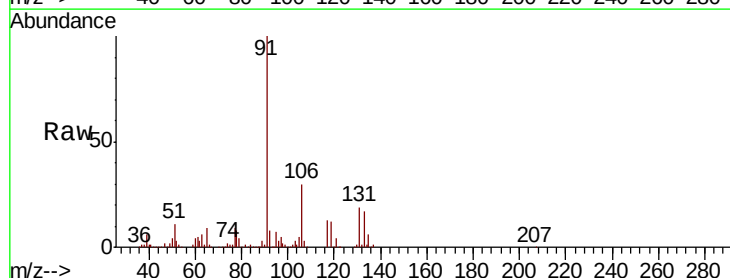
Instrument :  
MSVOA\_N  
ClientSampled :

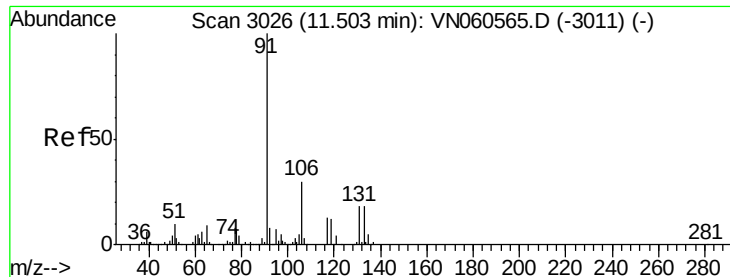
Tot Ion:112 Resp: 279526  
Ion Ratio Lower Upper  
112 100  
114 31.8 25.8 38.6



#66  
1,1,1,2-Tetrachloroethane  
Concen: 50.934 ug/l  
RT: 11.50 min Scan# 3026  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

Tgt Ion:131 Resp: 104567  
Ion Ratio Lower Upper  
131 100  
133 95.5 48.9 146.8  
119 66.8 33.9 101.7

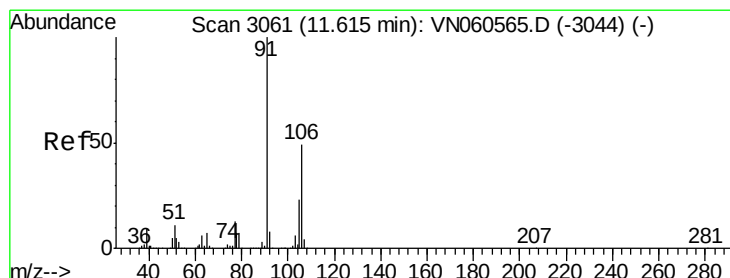
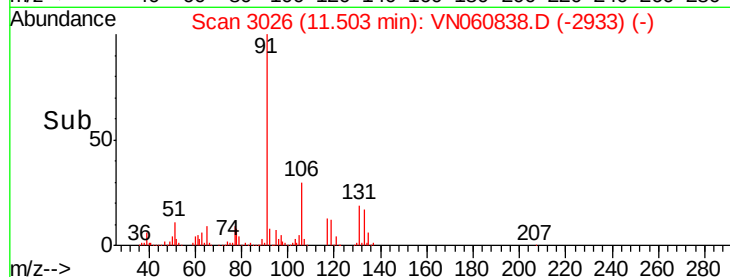
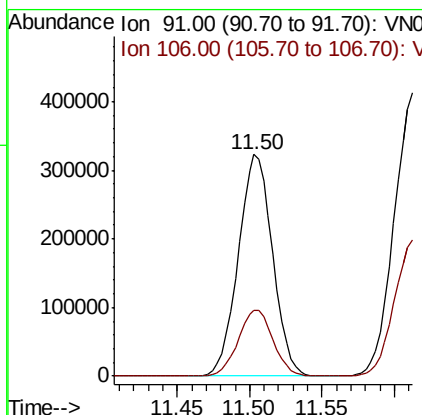
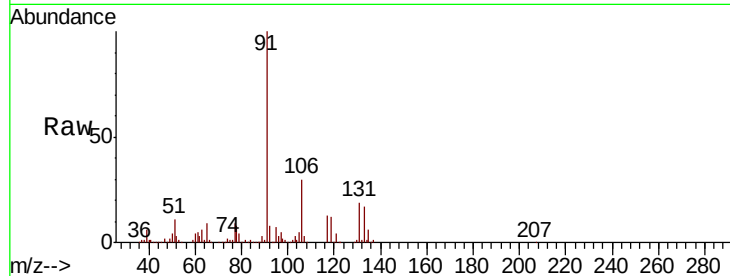




#67  
Ethyl Benzene  
Concen: 50.254 ug/l  
RT: 11.50 min Scan# 3026  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

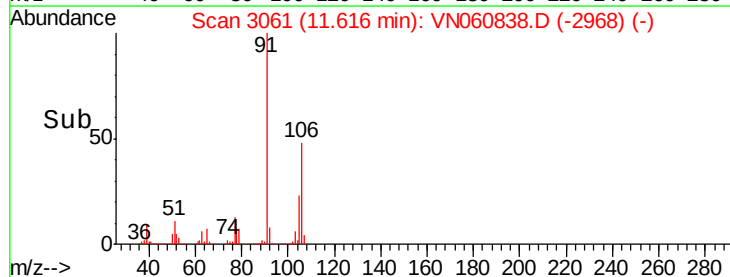
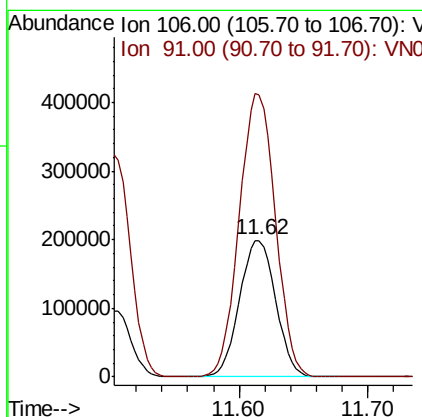
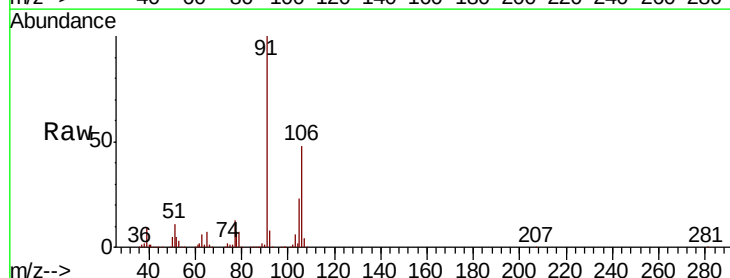
Instrument :  
MSVOA\_N  
ClientSampled :

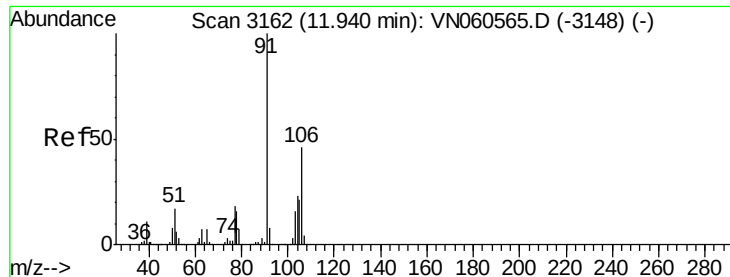
Tot Ion: 91 Resp: 529907  
Ion Ratio Lower Upper  
91 100  
106 30.0 24.2 36.2



#68  
m/p-Xylenes  
Concen: 99.135 ug/l  
RT: 11.62 min Scan# 3061  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

Tgt Ion: 106 Resp: 388454  
Ion Ratio Lower Upper  
106 100  
91 207.2 165.0 247.4

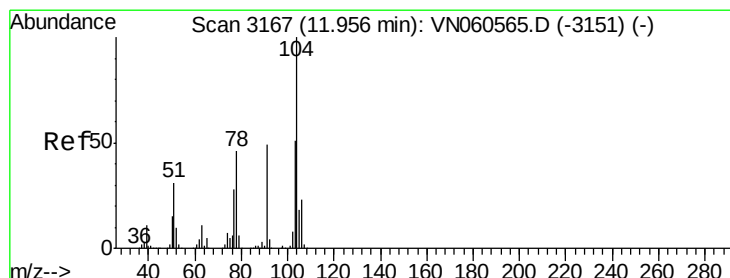
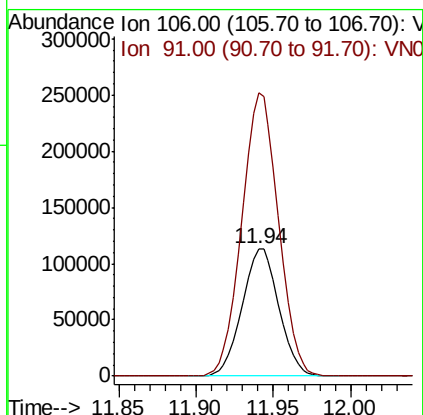
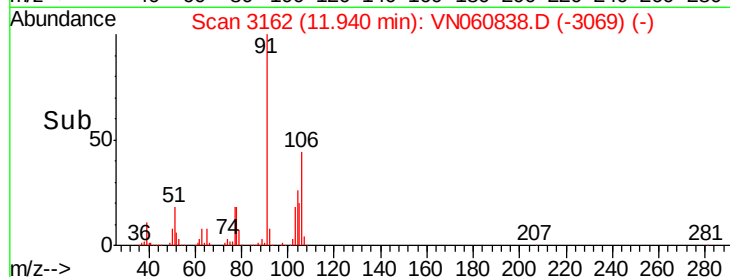
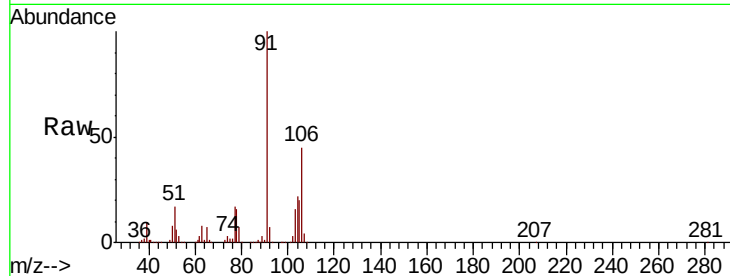




#69  
o-Xylene  
Concen: 50.014 ug/l  
RT: 11.94 min Scan# 3162  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

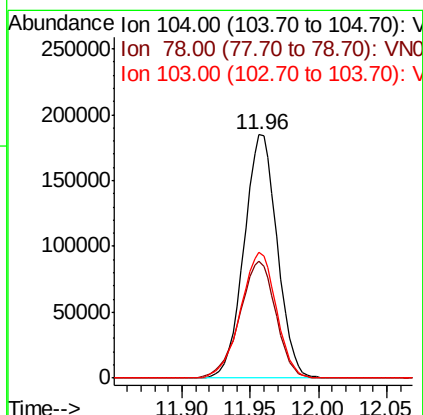
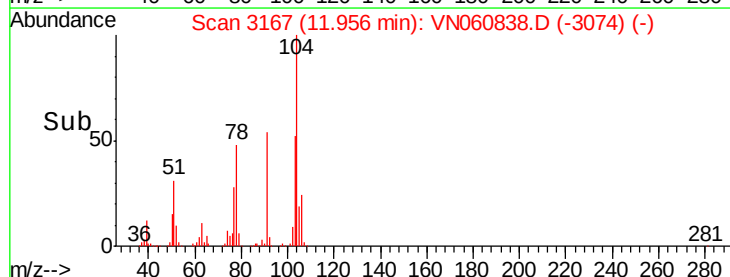
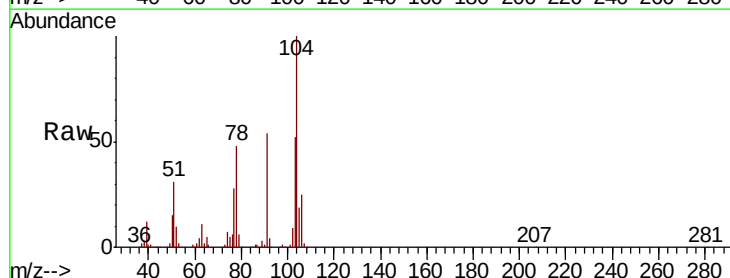
Instrument :  
MSVOA\_N  
ClientSampled :

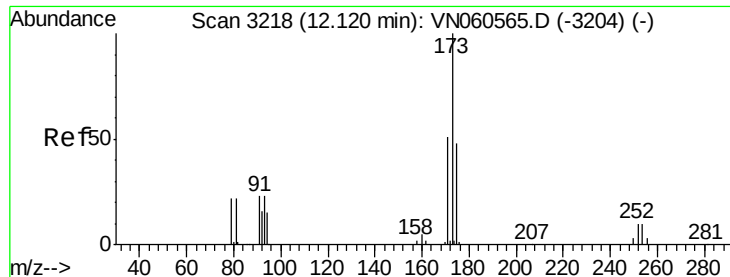
Tot Ion:106 Resp: 187084  
Ion Ratio Lower Upper  
106 100  
91 221.4 109.5 328.4



#70  
Styrene  
Concen: 51.077 ug/l  
RT: 11.96 min Scan# 3167  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

Tgt Ion:104 Resp: 312480  
Ion Ratio Lower Upper  
104 100  
78 52.2 41.2 61.8  
103 55.6 44.0 66.0

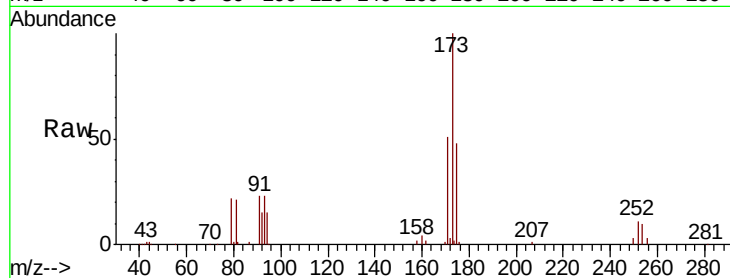




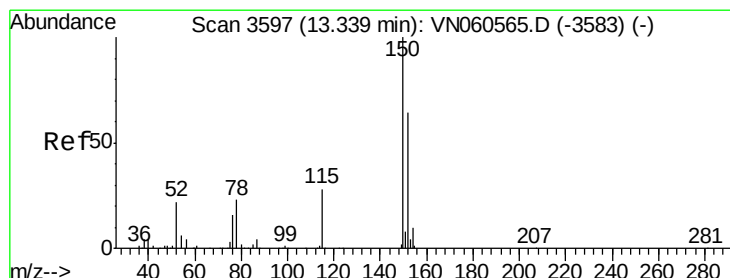
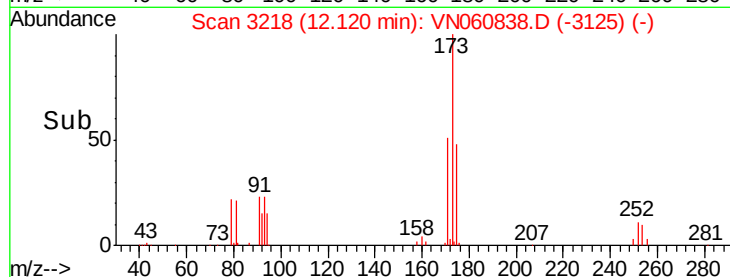
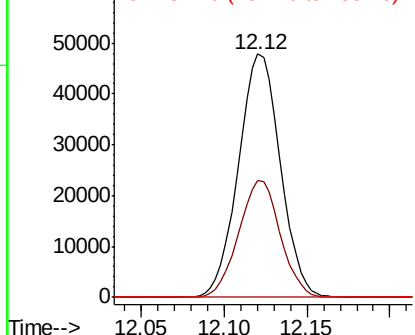
#71  
Bromoform  
Concen: 49.189 ug/l  
RT: 12.12 min Scan# 3218  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion:173 Resp: 83883  
Ion Ratio Lower Upper  
173 100  
175 47.8 24.1 72.4  
254 0.0 0.0 0.0

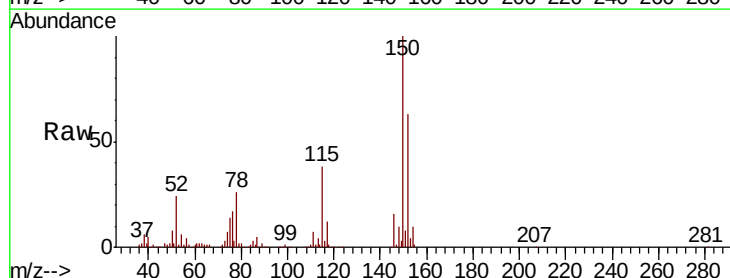


Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V

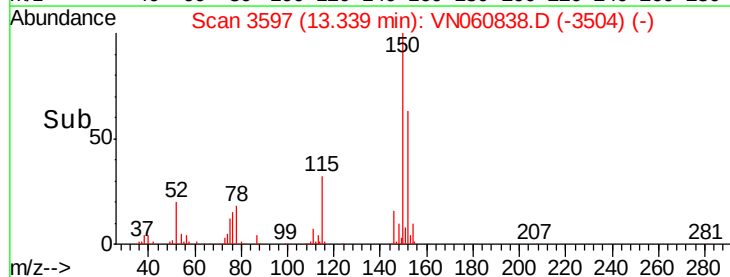
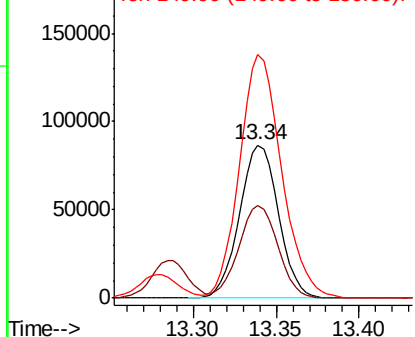


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3597  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

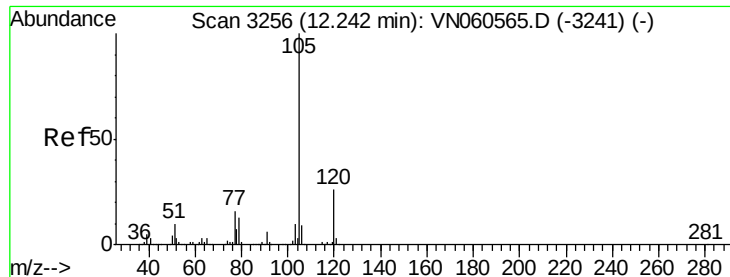
Tgt Ion:152 Resp: 141766  
Ion Ratio Lower Upper  
152 100  
115 60.8 30.2 90.6  
150 172.0 0.0 350.2



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: 47.622 ug/l

RT: 12.24 min Scan# 3256

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

Instrument :

MSVOA\_N

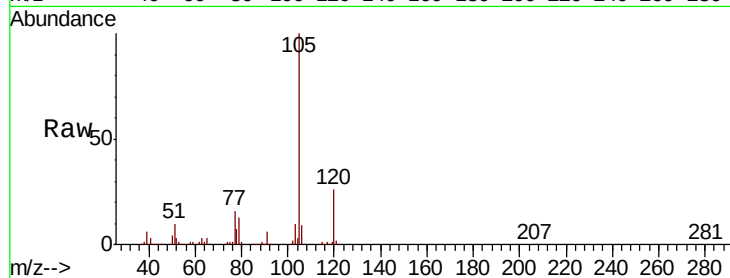
ClientSampleId :

Tot Ion: 105 Resp: 506650

Ion Ratio Lower Upper

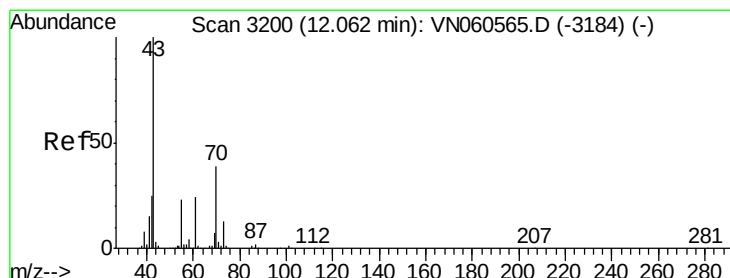
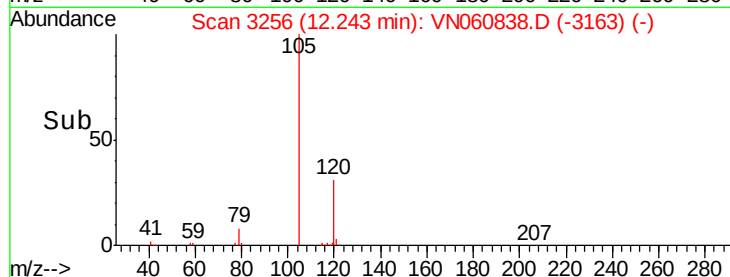
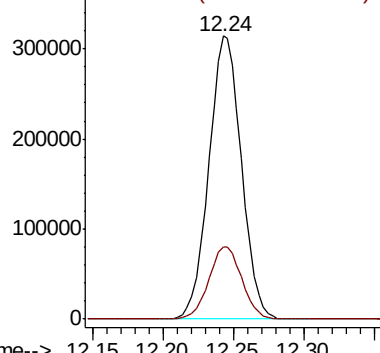
105 100

120 25.8 13.1 39.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 50.528 ug/l

RT: 12.06 min Scan# 3200

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

Tgt Ion: 43 Resp: 248404

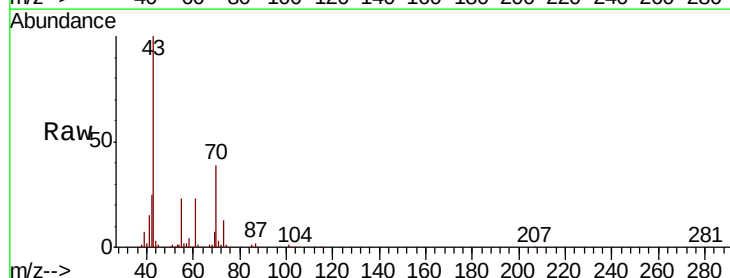
Ion Ratio Lower Upper

43 100

70 38.9 31.1 46.7

55 23.2 18.6 27.8

61 22.9 18.9 28.3

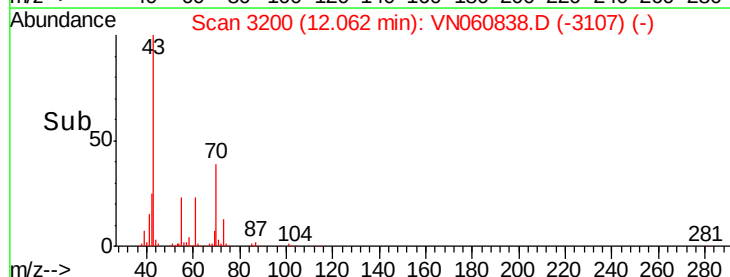
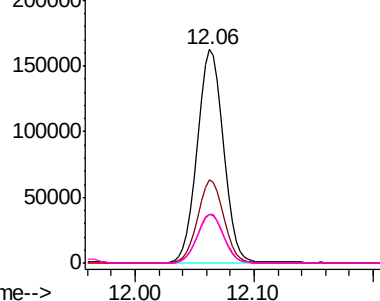


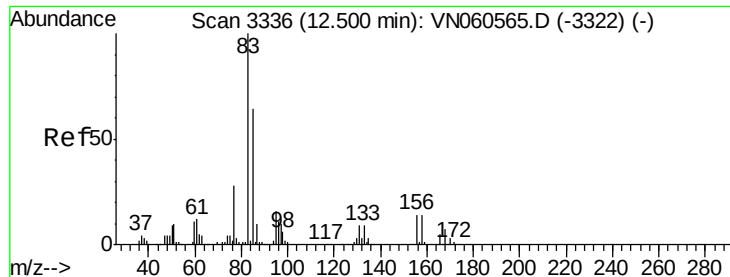
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 50.202 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

Instrument :

MSVOA\_N

ClientSampleId :

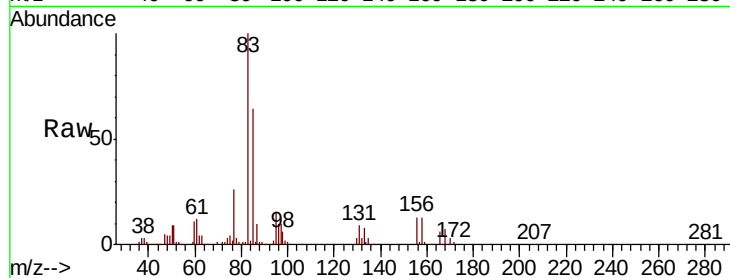
Tot Ion: 83 Resp: 161516

Ion Ratio Lower Upper

83 100

131 9.5 4.9 14.7

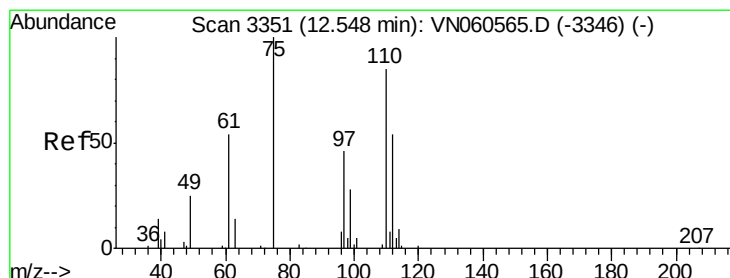
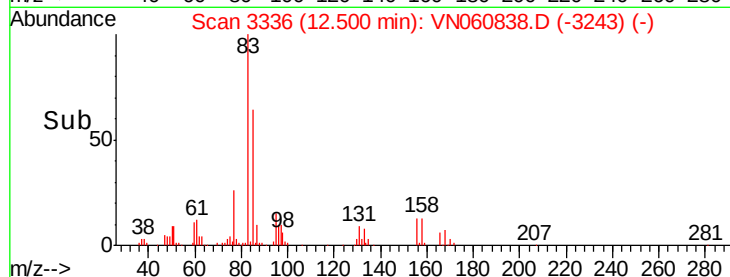
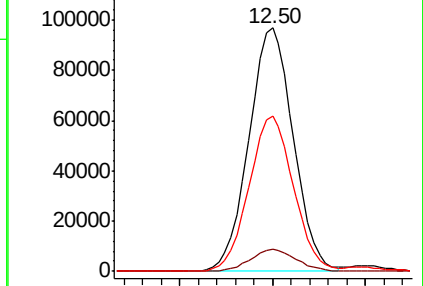
85 63.8 32.5 97.4



Abundance Ion 82.90 (82.60 to 83.60): VN060838.D (-3243) (-)

Ion 130.80 (130.50 to 131.50): VN060838.D (-3243) (-)

Ion 84.90 (84.60 to 85.60): VN060838.D (-3243) (-)



#76

1,2,3-Trichloropropane

Concen: 71.215 ug/l

RT: 12.55 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VN060838.D

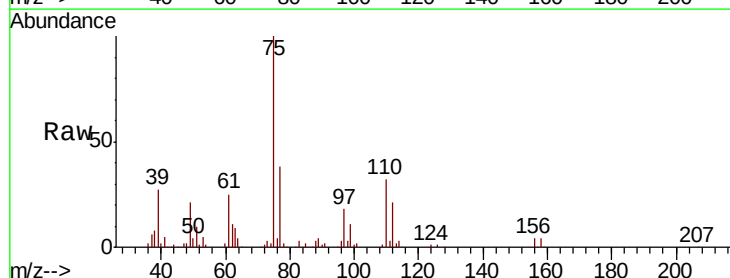
Acq: 2 Apr 2020 21:36

Tgt Ion: 75 Resp: 217847

Ion Ratio Lower Upper

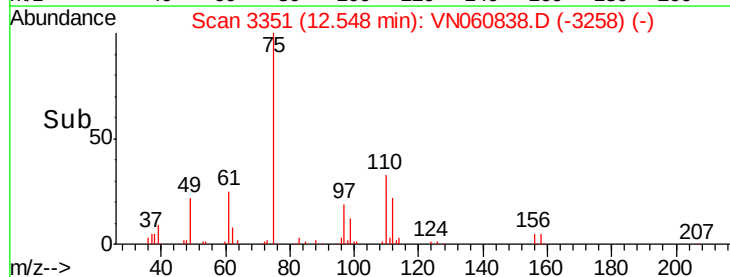
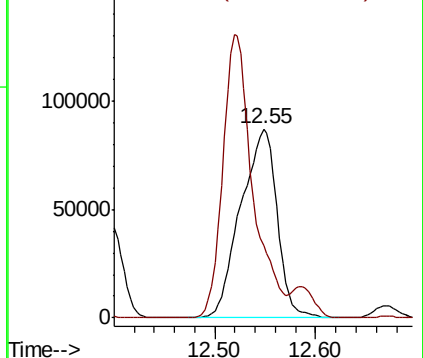
75 100

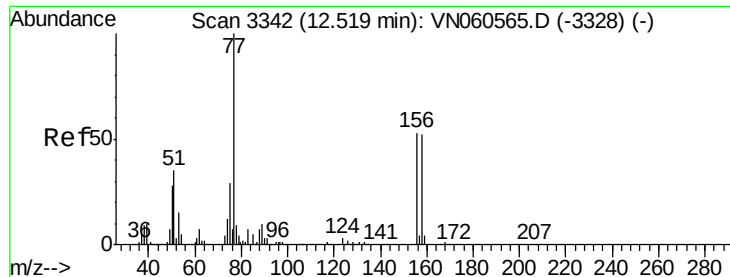
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN060838.D (-3258) (-)

Ion 77.00 (76.70 to 77.70): VN060838.D (-3258) (-)





#77

Bromobenzene

Concen: 47.134 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

Instrument :

MSVOA\_N

ClientSampleId :

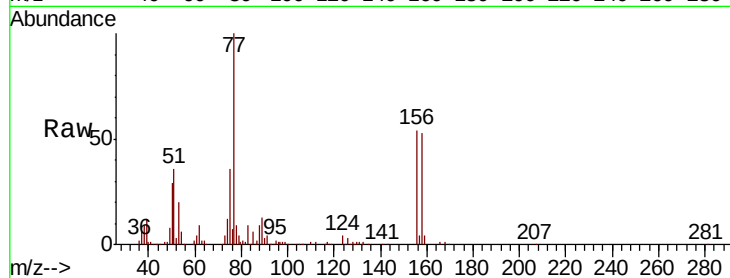
Tot Ion:156 Resp: 120835

Ion Ratio Lower Upper

156 100

77 224.7 112.3 337.0

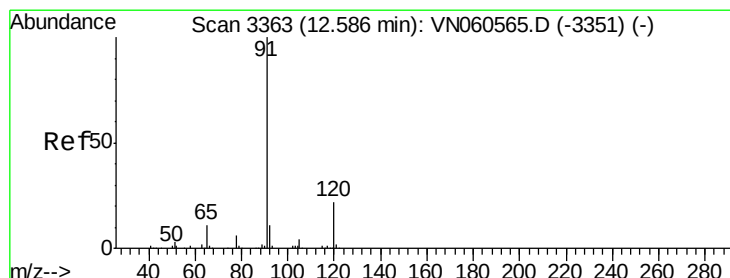
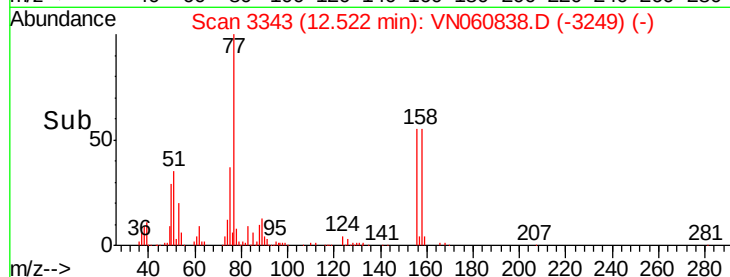
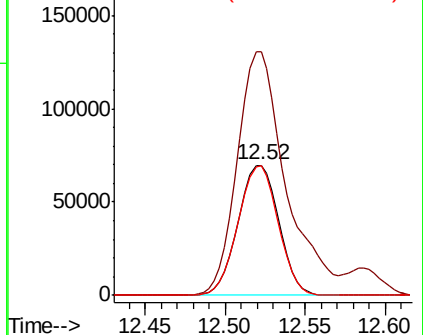
158 98.2 48.6 145.8



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 47.886 ug/l

RT: 12.59 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN060838.D

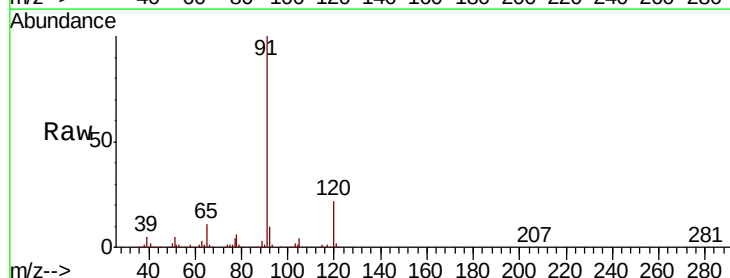
Acq: 2 Apr 2020 21:36

Tgt Ion: 91 Resp: 601892

Ion Ratio Lower Upper

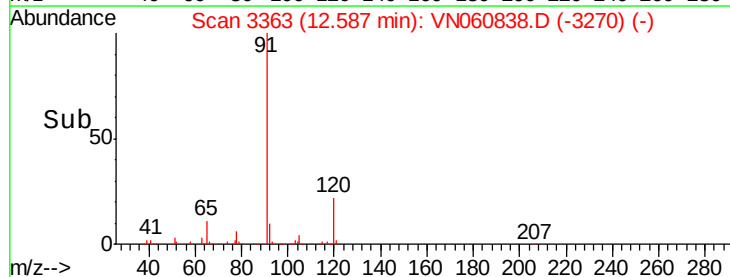
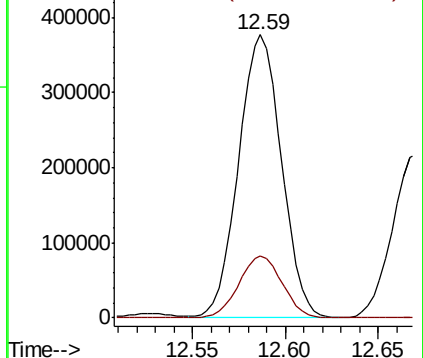
91 100

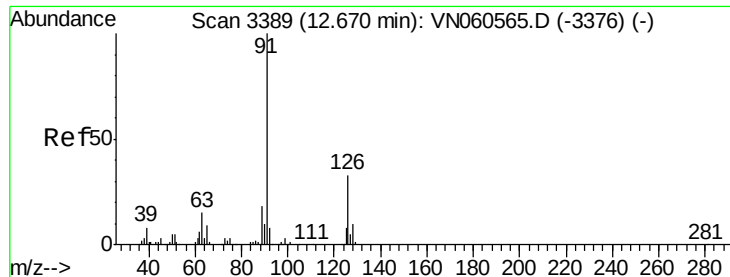
120 22.1 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 47.361 ug/l

RT: 12.67 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

Instrument :

MSVOA\_N

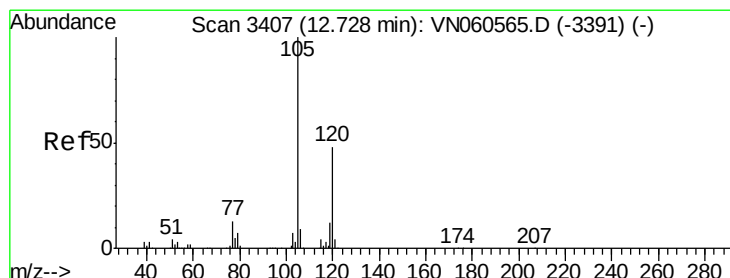
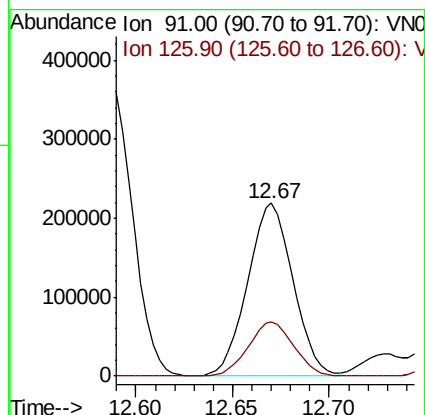
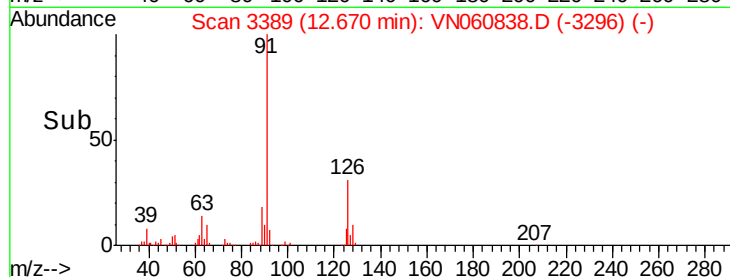
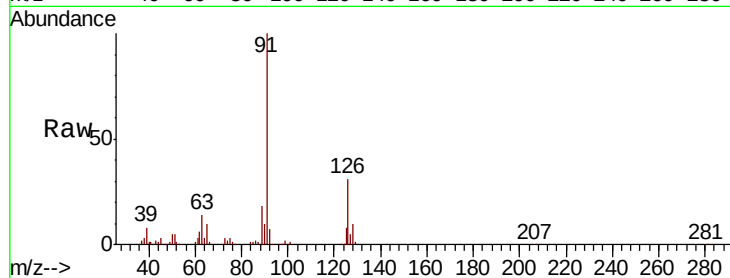
ClientSampled :

Tot Ion: 91 Resp: 355685

Ion Ratio Lower Upper

91 100

126 31.5 16.4 49.1



#80

1,3,5-Trimethylbenzene

Concen: 47.398 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060838.D

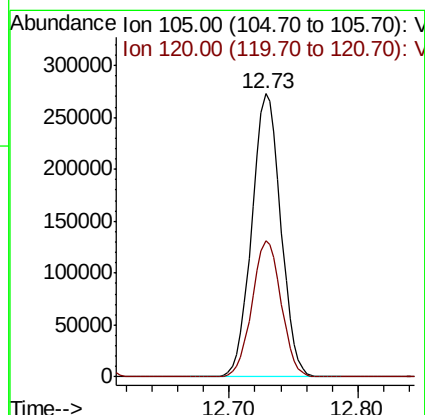
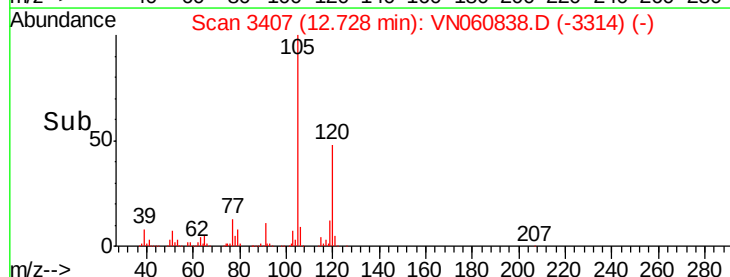
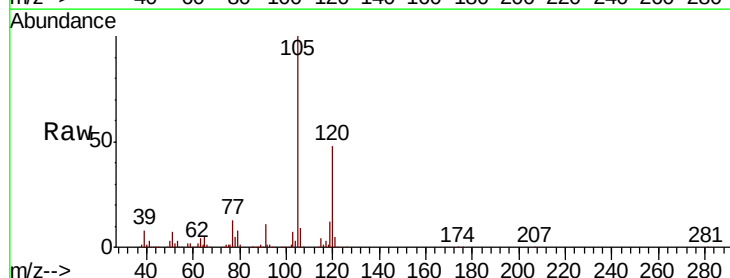
Acq: 2 Apr 2020 21:36

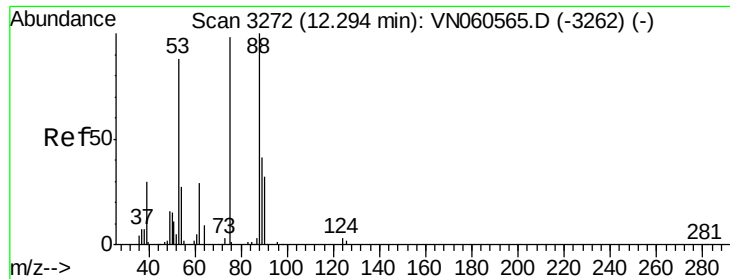
Tgt Ion: 105 Resp: 427934

Ion Ratio Lower Upper

105 100

120 48.3 23.9 71.7

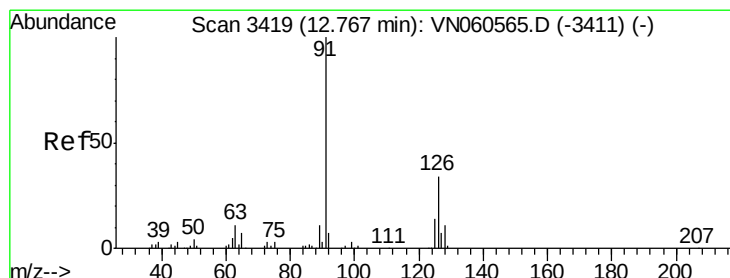
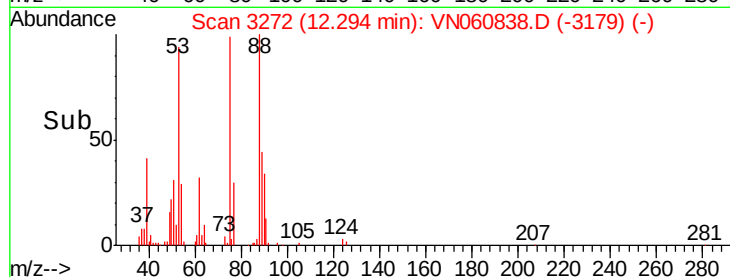
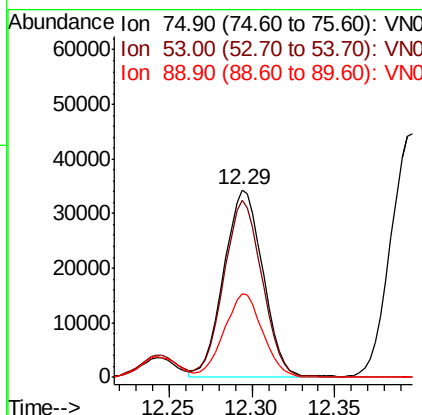
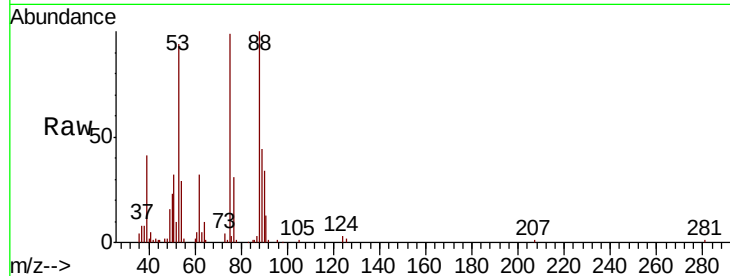




#81  
trans-1,4-Dichloro-2-butene  
Concen: 47.624 ug/l  
RT: 12.29 min Scan# 3272  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

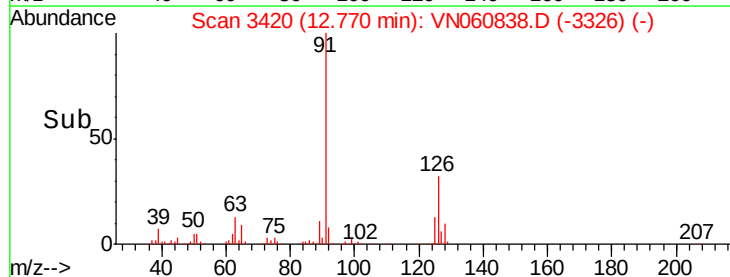
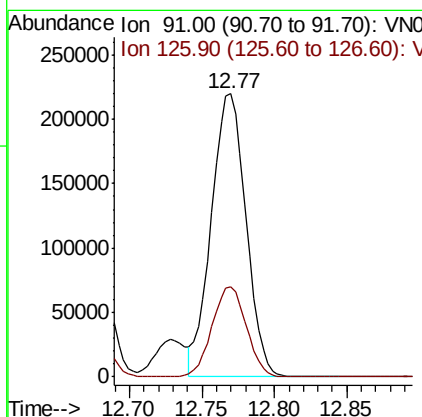
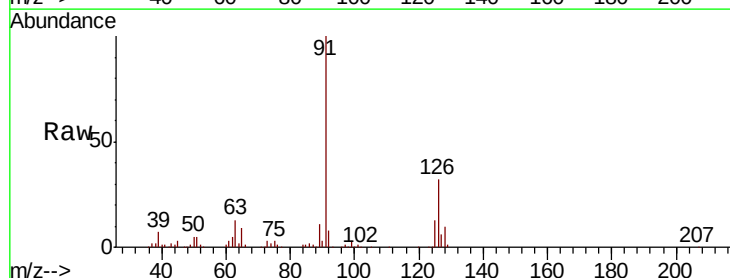
Instrument :  
MSVOA\_N  
ClientSampled :

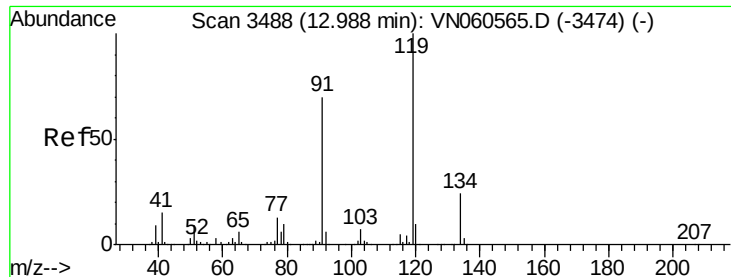
Tot Ion: 75 Resp: 56723  
Ion Ratio Lower Upper  
75 100  
53 92.5 73.0 109.4  
89 43.6 34.8 52.2



#82  
4-Chlorotoluene  
Concen: 47.644 ug/l  
RT: 12.77 min Scan# 3420  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

Tgt Ion: 91 Resp: 364431  
Ion Ratio Lower Upper  
91 100  
126 31.6 16.2 48.5





#83

tert-Butylbenzene

Concen: 48.228 ug/l

RT: 12.99 min Scan# 3488

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

Instrument :

MSVOA\_N

ClientSampled :

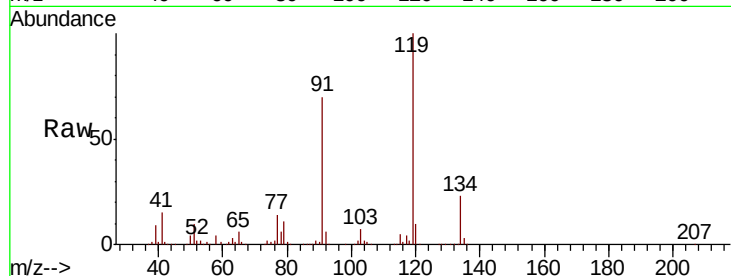
Tot Ion:119 Resp: 360953

Ion Ratio Lower Upper

119 100

91 67.8 34.0 101.8

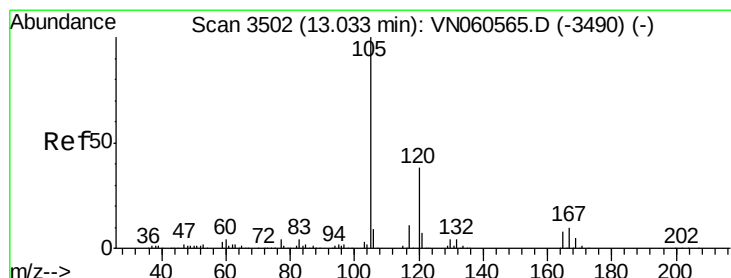
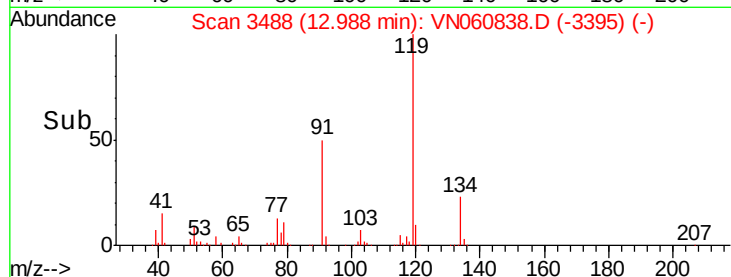
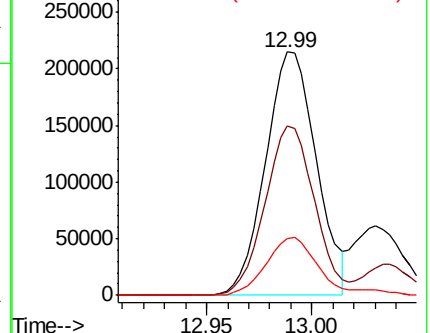
134 23.6 12.7 38.0



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 48.312 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. 0.00 min

Lab File: VN060838.D

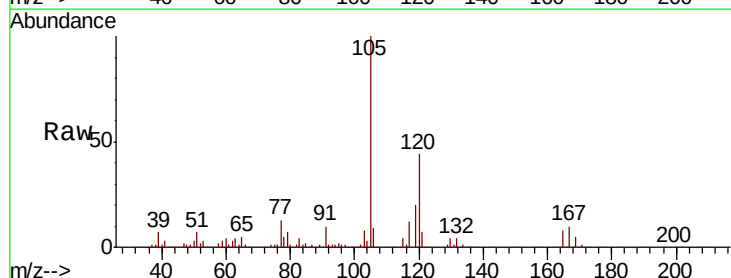
Acq: 2 Apr 2020 21:36

Tgt Ion:105 Resp: 431524

Ion Ratio Lower Upper

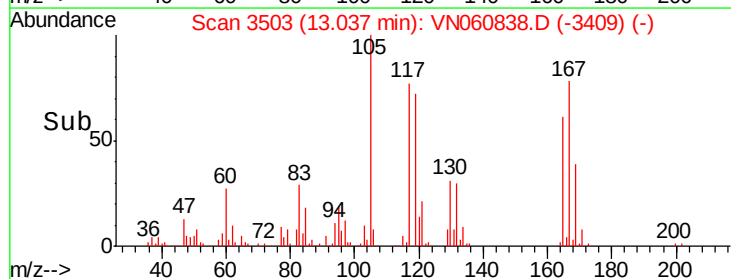
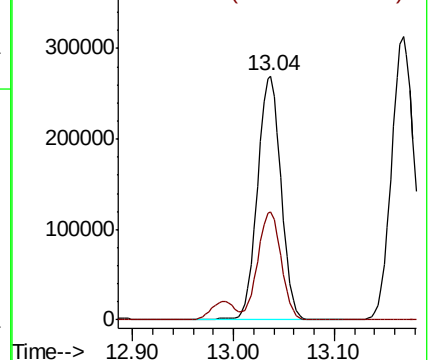
105 100

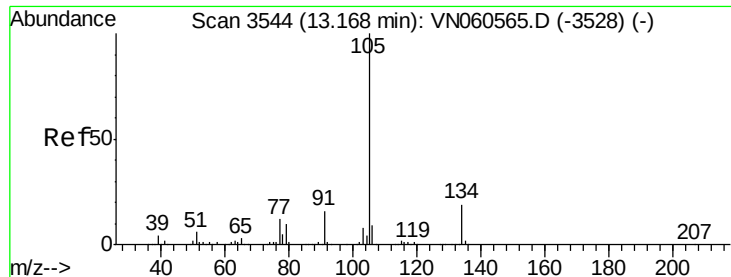
120 44.2 22.1 66.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 49.340 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

Instrument :

MSVOA\_N

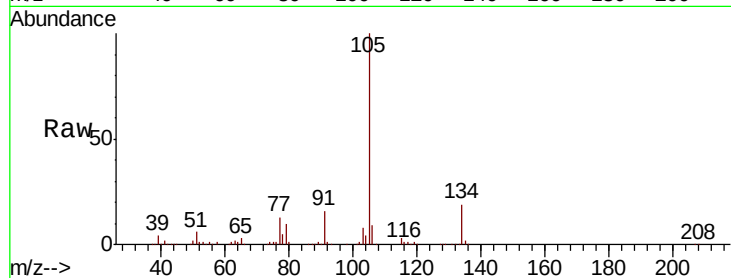
ClientSampleId :

Tot Ion:105 Resp: 496573

Ion Ratio Lower Upper

105 100

134 18.9 9.6 28.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

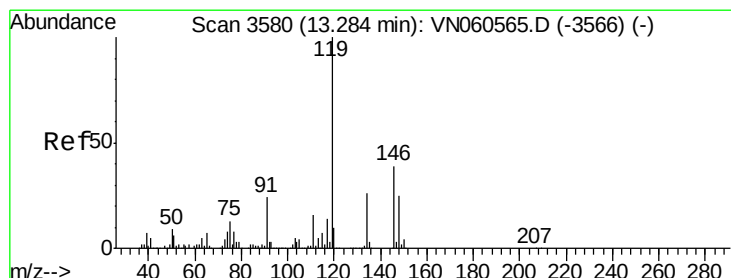
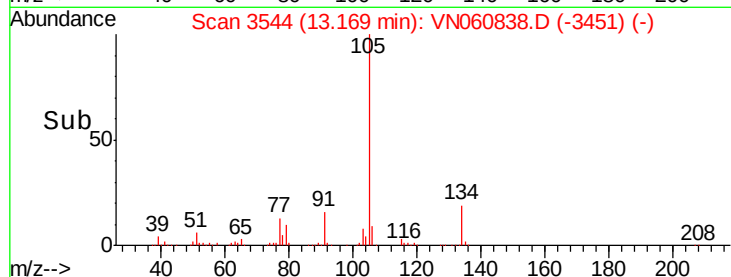
300000

200000

100000

0

Time-->



#86

p-Isopropyltoluene

Concen: 49.110 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

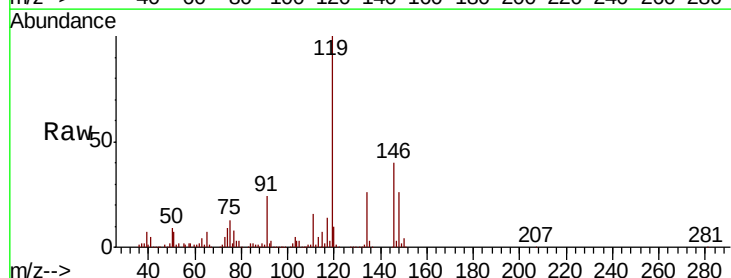
Tgt Ion:119 Resp: 444447

Ion Ratio Lower Upper

119 100

134 25.7 13.0 39.0

91 24.0 12.0 36.0



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.28

400000

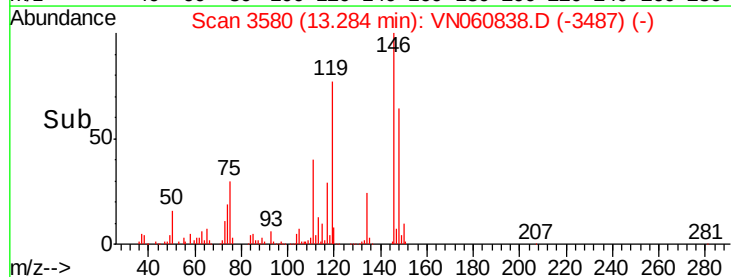
300000

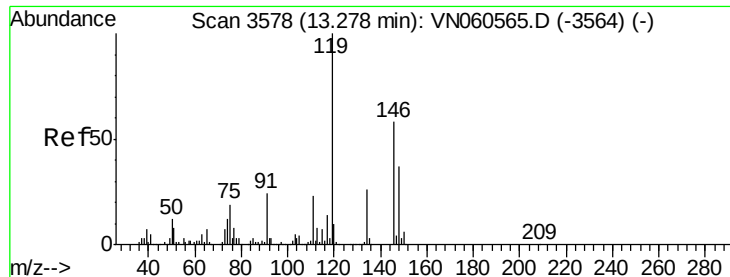
200000

100000

0

Time-->





#87

1,3-Dichlorobenzene

Concen: 48.111 ug/l

RT: 13.28 min Scan# 3578

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

Instrument :

MSVOA\_N

ClientSampled :

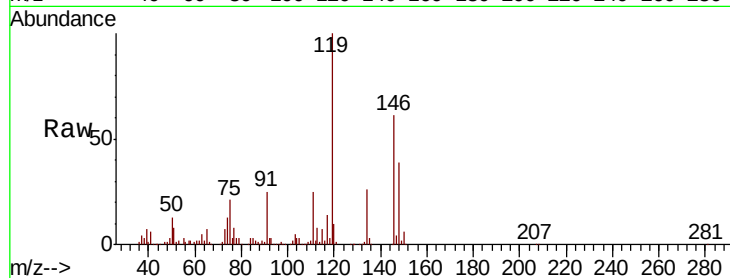
Tot Ion:146 Resp: 217532

Ion Ratio Lower Upper

146 100

111 40.9 20.3 60.8

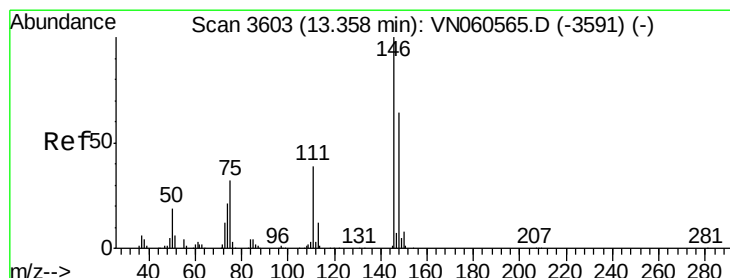
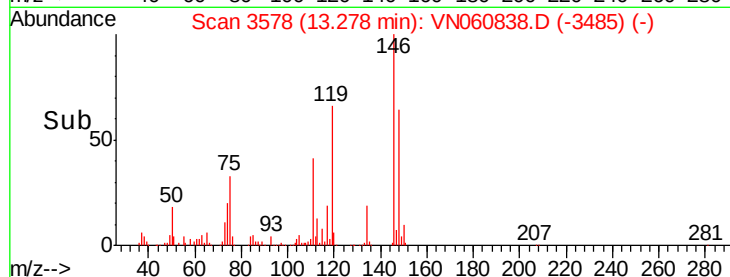
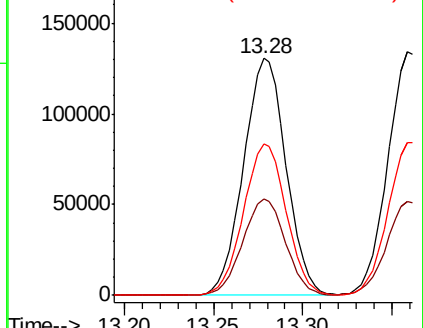
148 64.1 32.5 97.4



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



#88

1,4-Dichlorobenzene

Concen: 48.394 ug/l

RT: 13.36 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

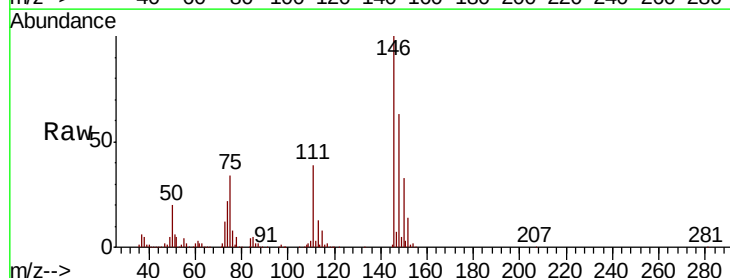
Tgt Ion:146 Resp: 219838

Ion Ratio Lower Upper

146 100

111 39.6 19.6 58.7

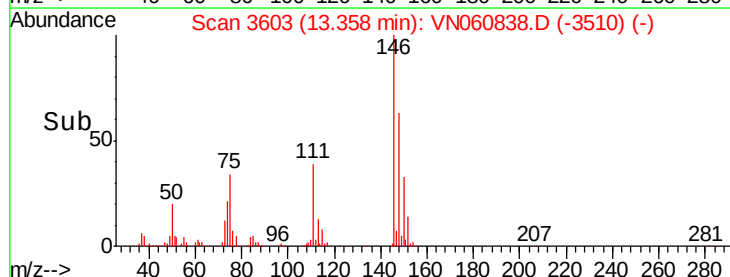
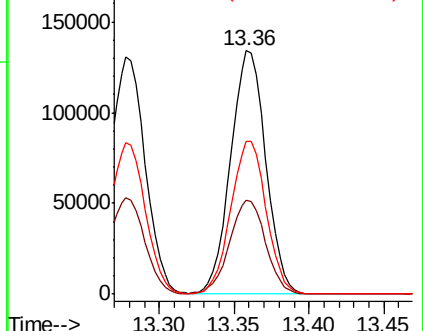
148 63.1 32.1 96.3



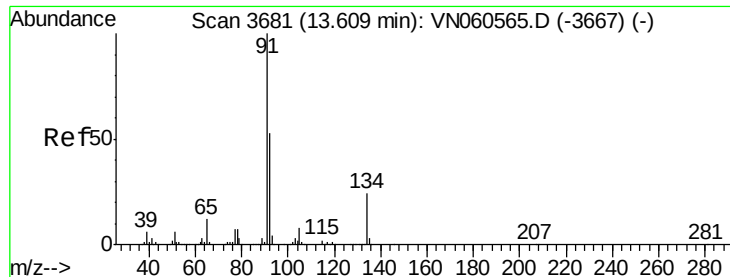
Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V







#89

n-Butylbenzene

Concen: 50.364 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN060838.D

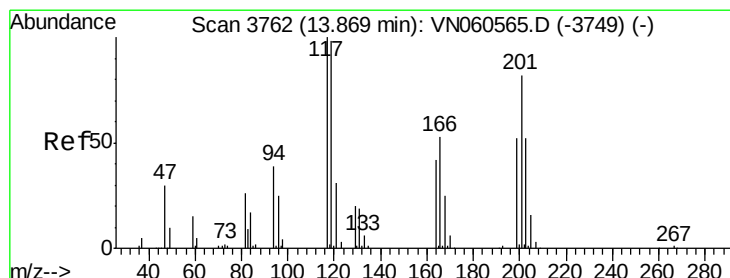
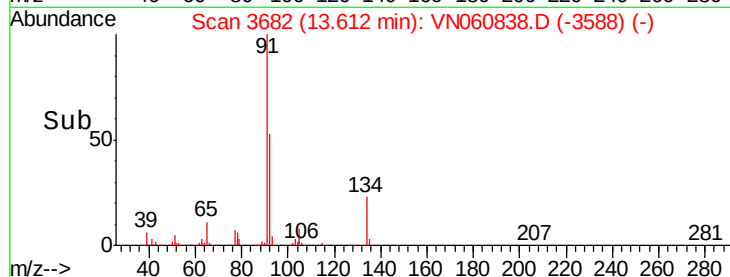
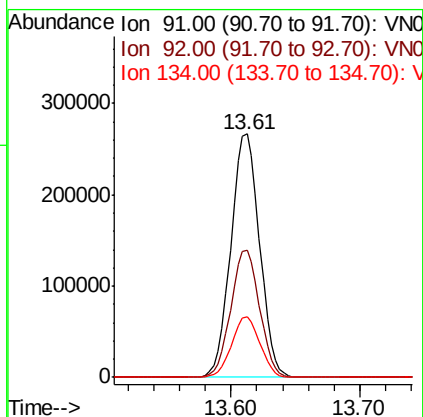
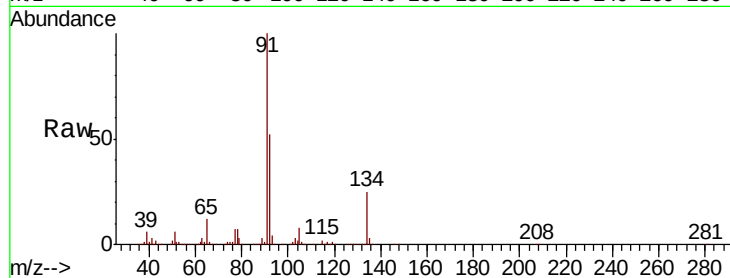
Acq: 2 Apr 2020 21:36

Instrument :

MSVOA\_N

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 91    | Resp: | 411521 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 92       | 52.3  | 26.2  | 78.5   |
| 134      | 24.5  | 12.3  | 36.9   |



#90

Hexachloroethane

Concen: 53.088 ug/l

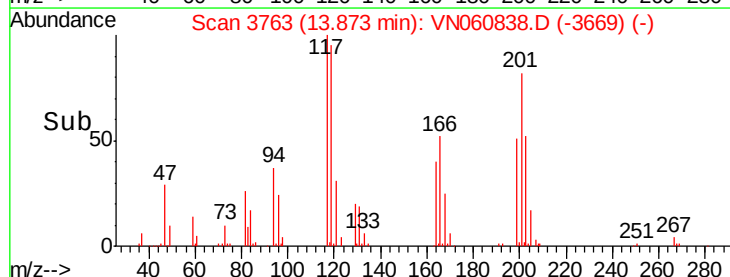
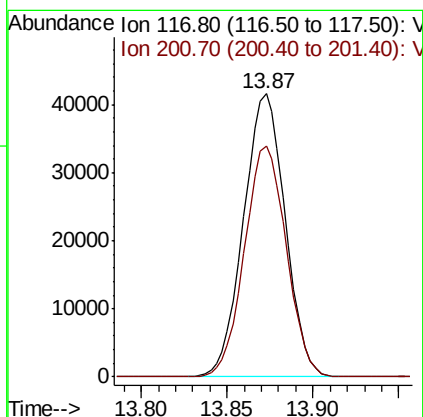
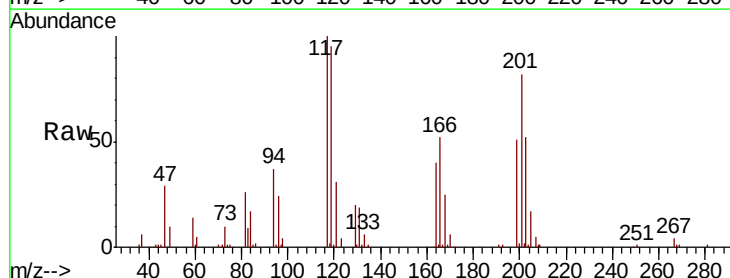
RT: 13.87 min Scan# 3763

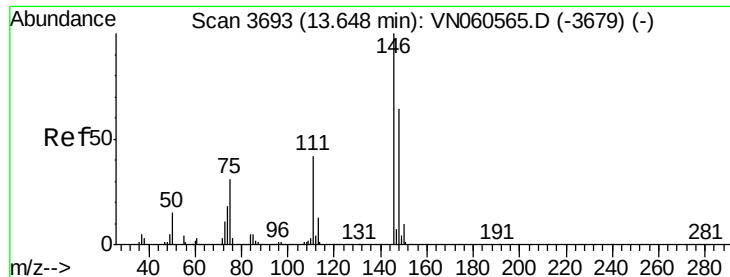
Delta R.T. 0.00 min

Lab File: VN060838.D

Acq: 2 Apr 2020 21:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 69837 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 201      | 81.9  | 40.8  | 122.5 |

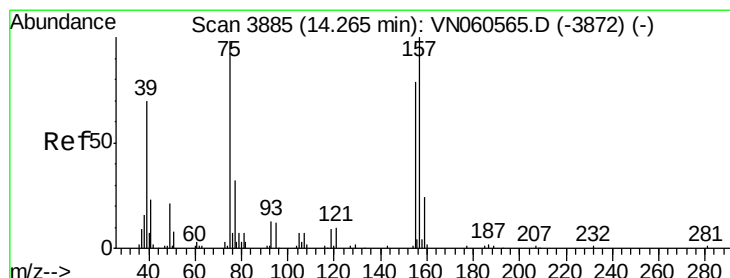
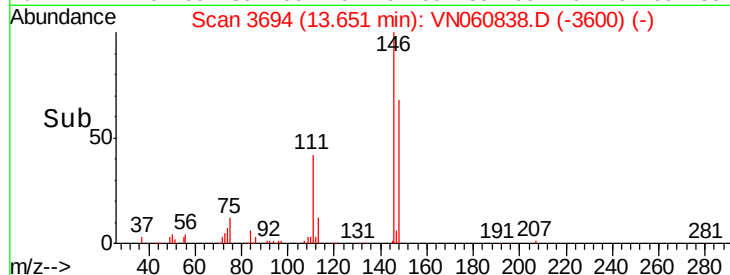
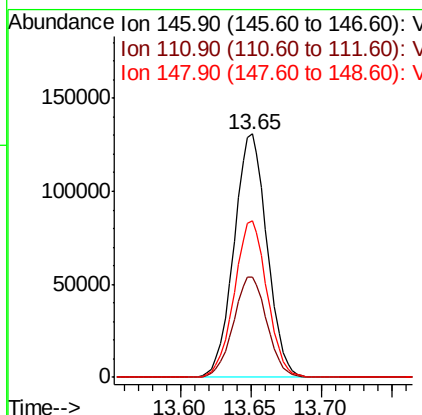
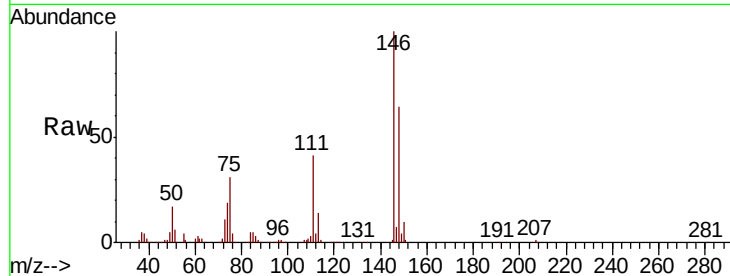




#91  
 1,2-Dichlorobenzene  
 Concen: 49.735 ug/l  
 RT: 13.65 min Scan# 3694  
 Delta R.T. 0.00 min  
 Lab File: VN060838.D  
 Acq: 2 Apr 2020 21:36

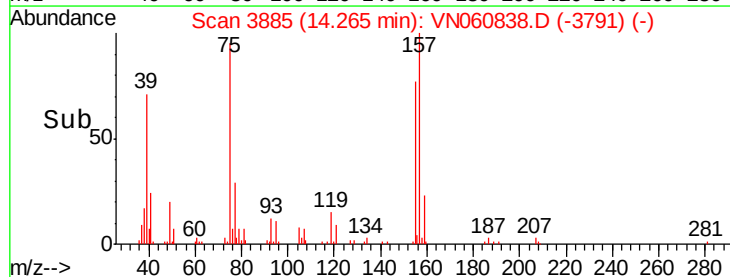
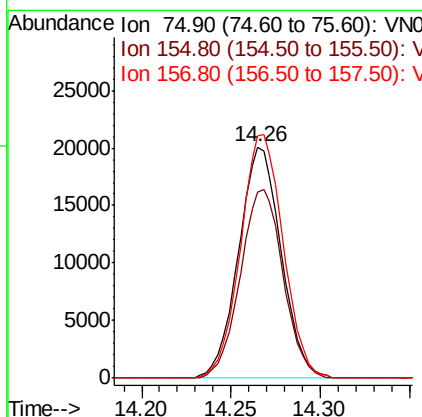
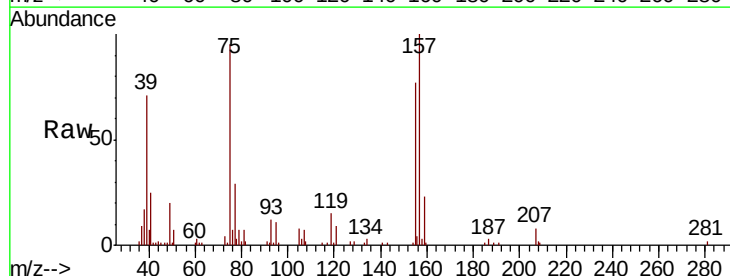
Instrument :  
 MSVOA\_N  
 ClientSampleId :

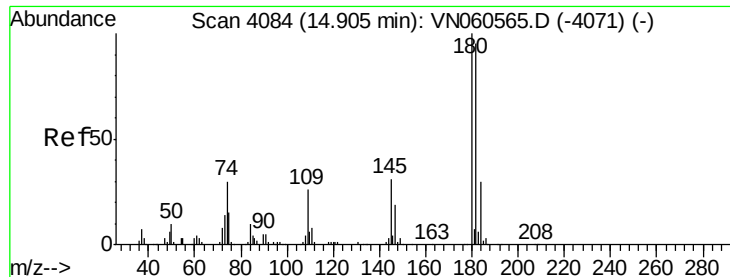
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.6  | 21.0  | 63.0  |
| 148     | 63.8  | 31.9  | 95.5  |



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 49.469 ug/l  
 RT: 14.26 min Scan# 3885  
 Delta R.T. 0.00 min  
 Lab File: VN060838.D  
 Acq: 2 Apr 2020 21:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 81.8  | 40.7  | 122.1 |
| 157     | 105.7 | 51.5  | 154.7 |

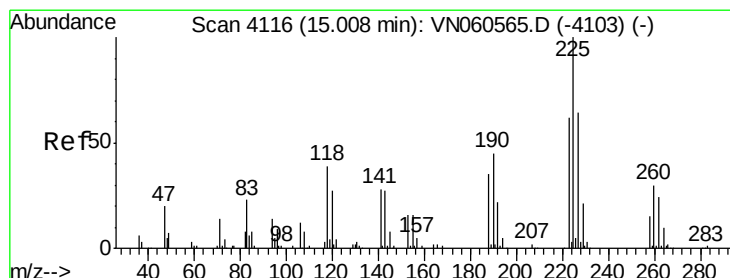
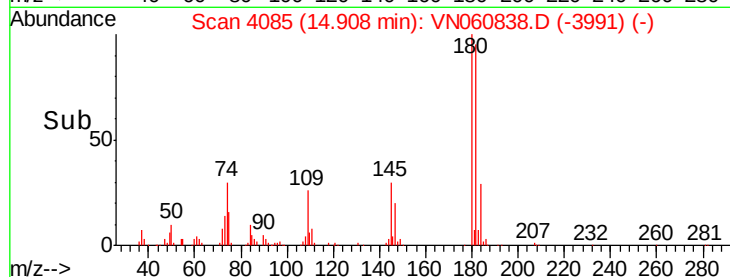
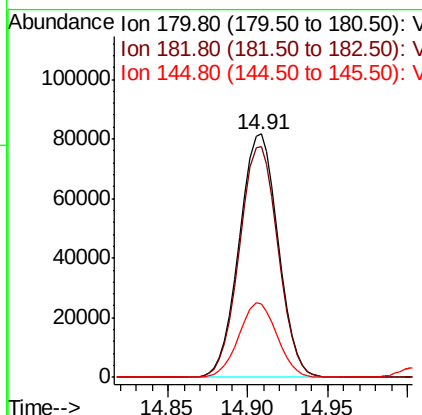
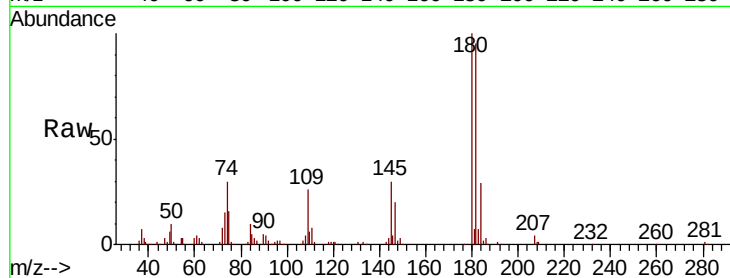




#93  
 1,2,4-Trichlorobenzene  
 Concen: 50.740 ug/l  
 RT: 14.91 min Scan# 4085  
 Delta R.T. 0.00 min  
 Lab File: VN060838.D  
 Acq: 2 Apr 2020 21:36

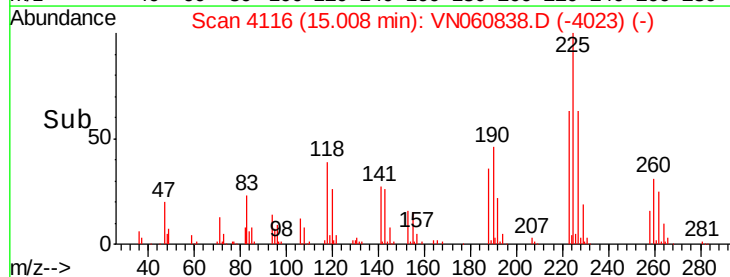
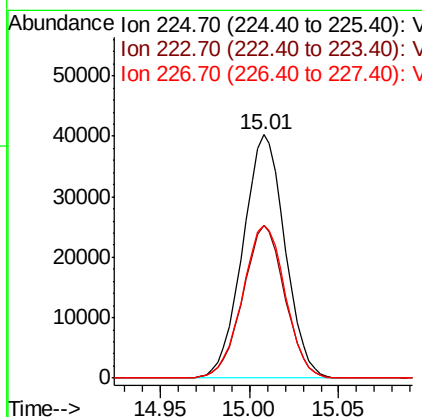
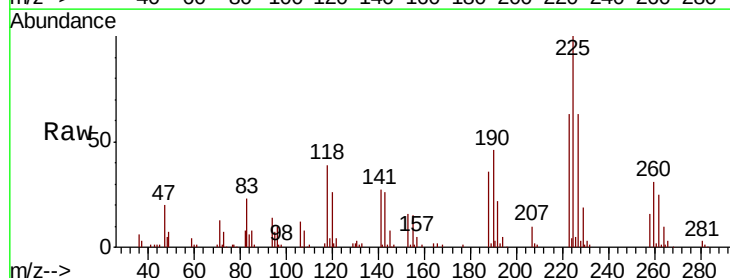
Instrument :  
 MSVOA\_N  
 ClientSampled :

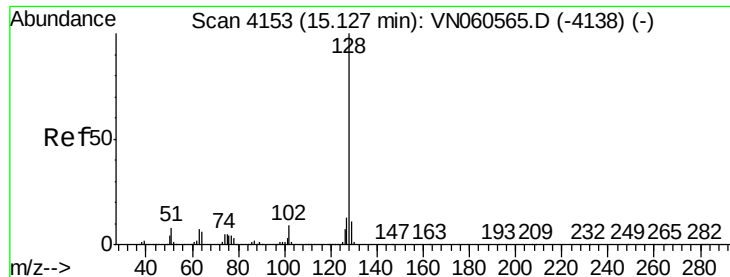
Tot Ion:180 Resp: 134715  
 Ion Ratio Lower Upper  
 180 100  
 182 94.8 47.9 143.8  
 145 30.2 15.4 46.2



#94  
 Hexachlorobutadiene  
 Concen: 50.992 ug/l  
 RT: 15.01 min Scan# 4116  
 Delta R.T. 0.00 min  
 Lab File: VN060838.D  
 Acq: 2 Apr 2020 21:36

Tgt Ion:225 Resp: 66368  
 Ion Ratio Lower Upper  
 225 100  
 223 62.1 31.6 95.0  
 227 63.8 32.3 96.8

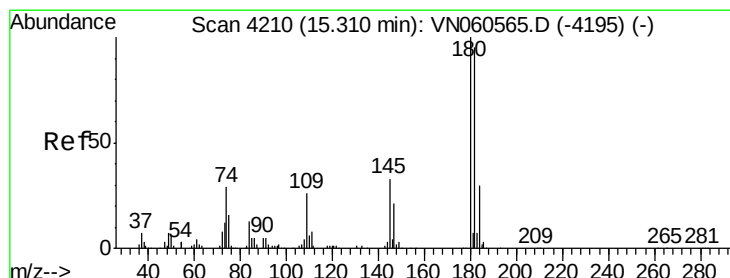
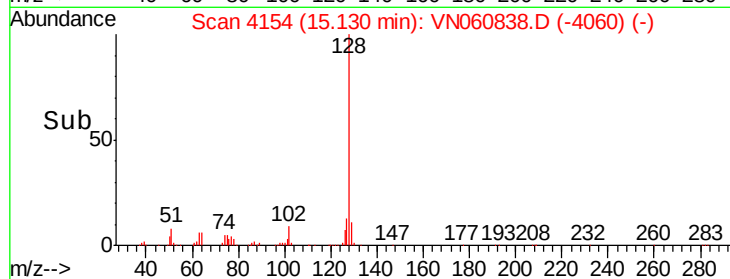
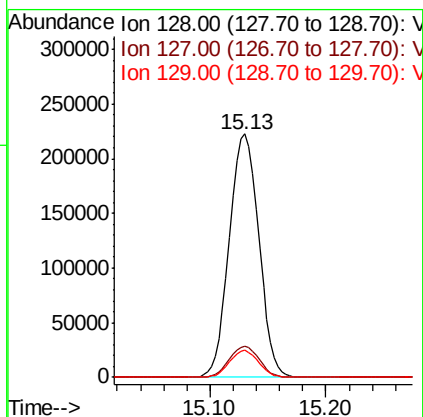
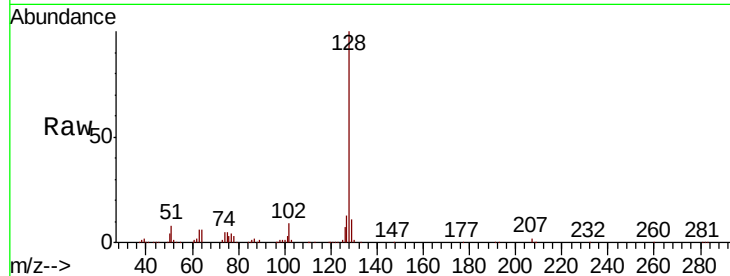




#95  
Naphthalene  
Concen: 49.082 ug/l  
RT: 15.13 min Scan# 4154  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion:128 Resp: 391950  
Ion Ratio Lower Upper  
128 100  
127 12.9 10.2 15.2  
129 10.9 8.8 13.2



#96  
1,2,3-Trichlorobenzene  
Concen: 49.056 ug/l  
RT: 15.31 min Scan# 4210  
Delta R.T. 0.00 min  
Lab File: VN060838.D  
Acq: 2 Apr 2020 21:36

Tgt Ion:180 Resp: 128287  
Ion Ratio Lower Upper  
180 100  
182 96.1 47.5 142.6  
145 32.4 16.3 48.8

