

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN010419\  
 Data File : VN053280.D  
 Acq On : 4 Jan 2019 10:50  
 Operator : MD\SY  
 Sample : VN0104WBSD01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 6 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0104WBSD01

Quant Time: Jan 05 00:03:37 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N122818W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Dec 28 10:33:50 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.19  | 128  | 137695   | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.59  | 114  | 783416   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.41 | 117  | 698640   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 8.03   | 65    | 265876   | 30.40    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 101.33% |
| 60) 4-Bromofluorobenzene  | 12.40  | 95    | 320963   | 30.02    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 100.07% |
| 63) Toluene-d8            | 10.09  | 98    | 952554   | 30.26    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 100.87% |

## Target Compounds

|                               |      |     |        |               | Ovalue |
|-------------------------------|------|-----|--------|---------------|--------|
| 2) Dichlorodifluoromethane    | 1.85 | 85  | 182019 | 19.840 ug/l   | 99     |
| 3) Chloromethane              | 2.06 | 50  | 208092 | 19.326 ug/l   | 99     |
| 4) Vinyl Chloride             | 2.19 | 62  | 205031 | 19.350 ug/l   | 98     |
| 5) Bromomethane               | 2.57 | 94  | 136409 | 19.967 ug/l   | 100    |
| 6) Chloroethane               | 2.71 | 64  | 116943 | 19.159 ug/l   | 99     |
| 7) Trichlorofluoromethane     | 3.02 | 101 | 256548 | 19.606 ug/l   | 99     |
| 8) Diethyl Ether              | 3.41 | 74  | 97432  | 20.041 ug/l   | 92     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.76 | 101 | 161424 | 19.634 ug/l   | 96     |
| 10) 1,1-Dichloroethene        | 3.74 | 96  | 153226 | 19.098 ug/l   | 93     |
| 11) Methyl Iodide             | 3.96 | 142 | 234731 | 19.978 ug/l   | 99     |
| 12) Methyl Acetate            | 4.32 | 43  | 138550 | 22.156 ug/l   | 95     |
| 13) Acrolein                  | 3.61 | 56  | 69914  | 93.642 ug/l   | 98     |
| 14) Acrylonitrile             | 4.99 | 53  | 297402 | 106.307 ug/l  | 97     |
| 15) Acetone                   | 3.82 | 58  | 71626  | 120.469 ug/l  | 87     |
| 16) Carbon Disulfide          | 4.06 | 76  | 457822 | 18.549 ug/l   | 100    |
| 17) Allyl chloride            | 4.33 | 41  | 230633 | 18.273 ug/l   | 98     |
| 18) Methylene Chloride        | 4.55 | 84  | 178174 | 19.404 ug/l   | 94     |
| 19) trans-1,2-Dichloroethene  | 5.05 | 96  | 165314 | 19.497 ug/l   | 91     |
| 20) Diisopropyl ether         | 5.95 | 45  | 531866 | 19.677 ug/l   | 98     |
| 21) 1,1-Dichloroethane        | 5.85 | 63  | 307376 | 19.531 ug/l   | 99     |
| 22) cis-1,2-Dichloroethene    | 6.83 | 96  | 187511 | 19.632 ug/l   | 96     |
| 23) tert-Butyl Alcohol        | 4.87 | 59  | 226    | 0.479 ug/l #  | 100    |
| 24) Methyl tert-Butyl Ether   | 5.04 | 73  | 416188 | 19.893 ug/l   | 98     |
| 25) Chloroform                | 7.37 | 83  | 300858 | 19.888 ug/l   | 100    |
| 26) Cyclohexane               | 7.65 | 56  | 275129 | 18.743 ug/l # | 98     |
| 29) 1,1-Dichloropropene       | 7.80 | 75  | 231259 | 19.488 ug/l   | 99     |
| 30) 2-Butanone                | 6.83 | 43  | 336357 | 113.611 ug/l  | 98     |
| 31) 2,2-Dichloropropane       | 6.82 | 77  | 218896 | 19.054 ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97  | 246987 | 19.865 ug/l   | 97     |
| 33) Carbon Tetrachloride      | 7.78 | 117 | 215549 | 19.805 ug/l   | 99     |
| 34) Benzene                   | 8.04 | 78  | 709757 | 19.902 ug/l   | 98     |
| 35) Methacrylonitrile         | 7.21 | 41  | 213660 | 55.927 ug/l # | 51     |
| 36) 1,2-Dichloroethane        | 8.12 | 62  | 209320 | 20.218 ug/l   | 97     |
| 37) Trichloroethene           | 8.84 | 130 | 193376 | 20.016 ug/l   | 97     |
| 38) Methylcyclohexane         | 9.08 | 83  | 265624 | 19.137 ug/l   | 96     |
| 39) 1,2-Dichloropropane       | 9.12 | 63  | 188001 | 20.188 ug/l   | 97     |
| 40) Dibromomethane            | 9.21 | 93  | 108400 | 20.582 ug/l   | 94     |

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 Operator : MD\SY  
 Sample : VN0104WBSD01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 6 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0104WBSD01

Quant Time: Jan 05 00:03:37 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N122818W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Dec 28 10:33:50 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| -----                          |       |      |          |         |        |          |
| 41) Bromodichloromethane       | 9.40  | 83   | 225429   | 19.931  | ug/l   | 99       |
| 42) Vinyl Acetate              | 5.90  | 43   | 1664430  | 103.048 | ug/l   | 98       |
| 43) Ethyl Acetate              | 6.93  | 43   | 142030   | 21.482  | ug/l # | 69       |
| 44) Isopropyl Acetate          | 8.16  | 43   | 255840   | 20.773  | ug/l   | 95       |
| 45) 1,4-Dioxane                | 9.20  | 88   | 30587    | 406.128 | ug/l   | 95       |
| 46) Methyl methacrylate        | 9.20  | 41   | 128664   | 20.679  | ug/l   | 93       |
| 47) n-amyl Acetate             | 12.07 | 43   | 214399   | 19.822  | ug/l   | 100      |
| 48) t-1,3-Dichloropropene      | 10.38 | 75   | 223769   | 19.384  | ug/l   | 99       |
| 49) cis-1,3-Dichloropropene    | 9.84  | 75   | 267802   | 19.702  | ug/l   | 95       |
| 50) 1,1,2-Trichloroethane      | 10.56 | 97   | 157785   | 20.895  | ug/l   | 99       |
| 51) Ethyl methacrylate         | 10.43 | 69   | 201141   | 20.438  | ug/l   | 91       |
| 52) 1,3-Dichloropropane        | 10.71 | 76   | 266458   | 20.484  | ug/l   | 100      |
| 53) Dibromochloromethane       | 10.90 | 129  | 170274   | 20.077  | ug/l   | 98       |
| 54) 1,2-Dibromoethane          | 11.01 | 107  | 152957   | 20.079  | ug/l   | 99       |
| 55) 2-Chloroethyl vinyl ether  | 9.70  | 63   | 577786   | 102.298 | ug/l   | 98       |
| 56) Bromoform                  | 12.13 | 173  | 116293   | 20.044  | ug/l   | 98       |
| 58) 4-Methyl-2-Pentanone       | 9.99  | 43   | 740857   | 111.285 | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.75 | 43   | 501312   | 109.076 | ug/l   | 97       |
| 61) Tetrachloroethene          | 10.63 | 164  | 215833   | 20.905  | ug/l   | 96       |
| 62) Toluene                    | 10.16 | 91   | 767510   | 20.031  | ug/l   | 100      |
| 64) Chlorobenzene              | 11.43 | 112  | 477663   | 19.866  | ug/l   | 98       |
| 65) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 168122   | 19.933  | ug/l   | 99       |
| 66) Ethyl Benzene              | 11.51 | 91   | 818311   | 19.694  | ug/l   | 99       |
| 67) m/p-Xylenes                | 11.62 | 106  | 630989   | 40.153  | ug/l   | 98       |
| 68) o-Xylene                   | 11.95 | 106  | 305185   | 20.041  | ug/l   | 98       |
| 69) Styrene                    | 11.96 | 104  | 497931   | 20.032  | ug/l   | 99       |
| 70) Isopropylbenzene           | 12.25 | 105  | 802504   | 20.030  | ug/l   | 100      |
| 71) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 172227   | 20.420  | ug/l   | 100      |
| 72) 1,2,3-Trichloropropane     | 12.55 | 75   | 229502   | 31.074  | ug/l   | 46       |
| 73) Bromobenzene               | 12.53 | 156  | 210307   | 20.420  | ug/l   | 93       |
| 74) n-propylbenzene            | 12.59 | 91   | 902896   | 19.908  | ug/l   | 99       |
| 75) 2-Chlorotoluene            | 12.67 | 91   | 540633   | 20.127  | ug/l   | 98       |
| 76) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 656794   | 20.665  | ug/l   | 100      |
| 77) t-1,4-Dichloro-2-butene    | 12.30 | 75   | 48920    | 18.851  | ug/l   | 96       |
| 78) 4-Chlorotoluene            | 12.77 | 91   | 551998   | 20.188  | ug/l   | 99       |
| 79) tert-butylbenzene          | 12.99 | 119  | 557841   | 20.125  | ug/l   | 98       |
| 80) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 651562   | 20.454  | ug/l   | 100      |
| 81) sec-Butylbenzene           | 13.17 | 105  | 742879   | 20.239  | ug/l   | 100      |
| 82) p-Isopropyltoluene         | 13.29 | 119  | 641866   | 20.237  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene        | 13.28 | 146  | 353750   | 20.173  | ug/l   | 98       |
| 84) 1,4-Dichlorobenzene        | 13.36 | 146  | 342574   | 20.041  | ug/l   | 99       |
| 85) n-Butylbenzene             | 13.62 | 91   | 505396   | 19.595  | ug/l   | 99       |
| 86) Hexachloroethane           | 13.88 | 117  | 97517    | 19.257  | ug/l   | 95       |
| 87) 1,2-Dichlorobenzene        | 13.65 | 146  | 329185   | 20.203  | ug/l   | 98       |
| 88) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 17036    | 14.124  | ug/l   | 93       |
| 89) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 75122    | 9.499   | ug/l   | 99       |
| 90) Hexachlorobutadiene        | 15.01 | 225  | 75347    | 15.740  | ug/l   | 99       |
| 91) Naphthalene                | 15.13 | 128  | 119611   | 7.128   | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene     | 15.32 | 180  | 46648    | 6.611   | ug/l   | 98       |
| -----                          |       |      |          |         |        |          |

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Data File : VN053280.D  
Acq On : 4 Jan 2019 10:50  
Operator : MD\SY  
Sample : VN0104WBSD01  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 6 Sample Multiplier: 28

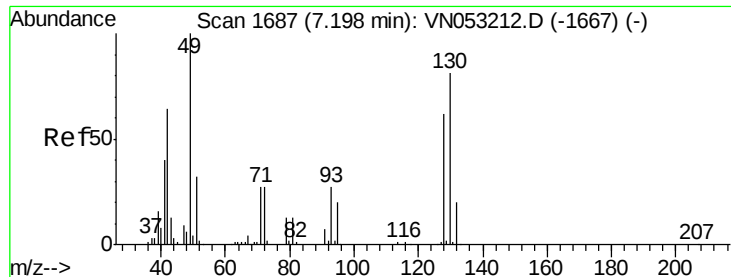
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0104WBSD01

Quant Time: Jan 05 00:03:37 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N122818W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Dec 28 10:33:50 2018  
Response via : Initial Calibration

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

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

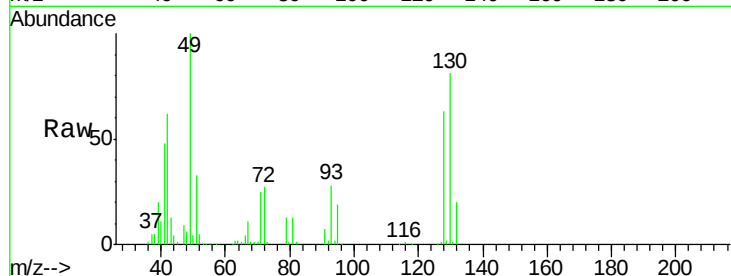




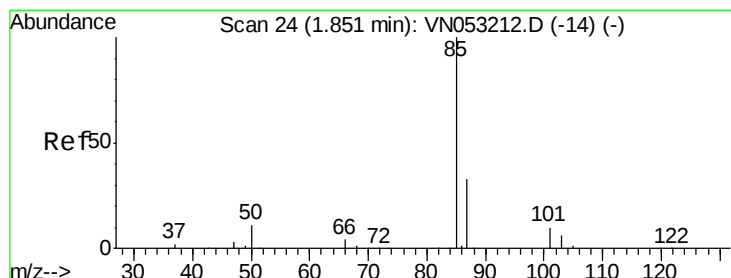
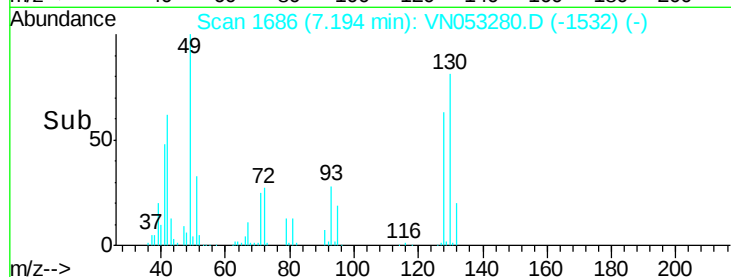
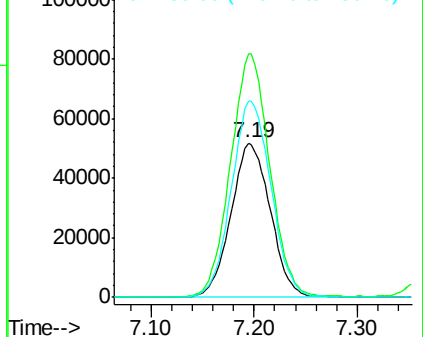
#1  
 Bromochloromethane  
 Concen: 30.000 ug/l  
 RT: 7.19 min Scan# 1686  
 Delta R.T. -0.00 min  
 Lab File: VN053280.D  
 Acq: 4 Jan 2019 10:50

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0104WBSD01

Tot Ion:128 Resp: 137695  
 Ion Ratio Lower Upper  
 128 100  
 49 157.8 0.0 431.8  
 130 128.7 0.0 317.0

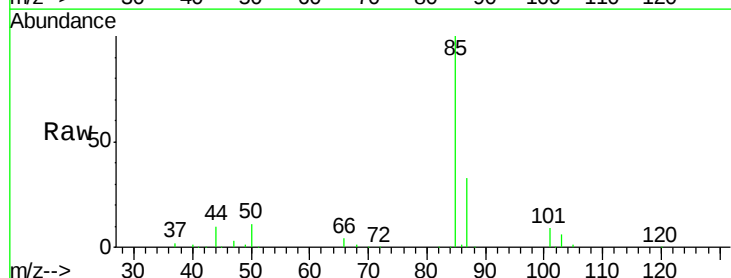


Abundance Ion 128.00 (127.70 to 128.70): V  
 Ion 49.00 (48.70 to 49.70): VN  
 Ion 130.00 (129.70 to 130.70): V

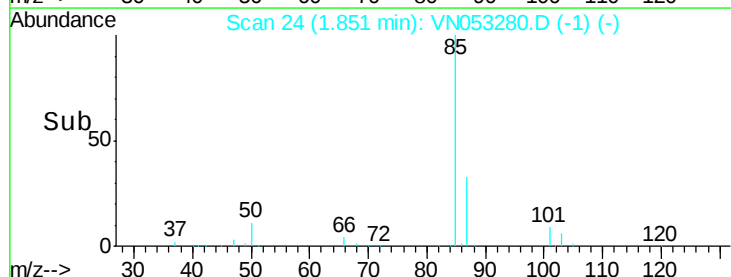
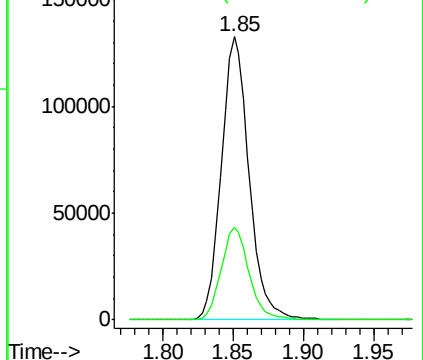


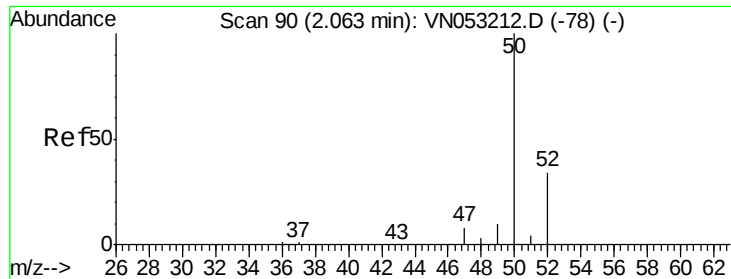
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 Dichlorodifluoromethane  
 Concen: 19.840 ug/l  
 RT: 1.85 min Scan# 24  
 Delta R.T. -0.00 min  
 Lab File: VN053280.D  
 Acq: 4 Jan 2019 10:50

Tgt Ion: 85 Resp: 182019  
 Ion Ratio Lower Upper  
 85 100  
 87 32.8 16.1 48.3



Abundance Ion 85.00 (84.70 to 85.70): VN  
 Ion 87.00 (86.70 to 87.70): VN





#3

Chloromethane

Concen: 19.326 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

Instrument :

MSVOA\_N

ClientSampled :

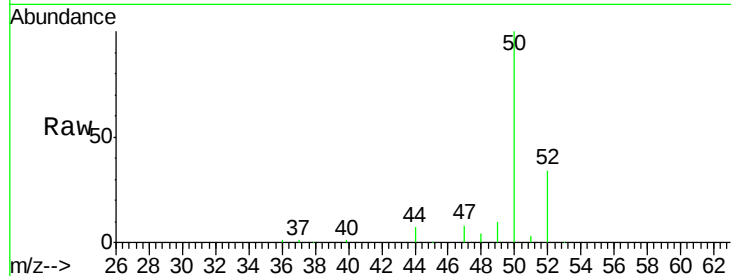
VN0104WBSD01

Tot Ion: 50 Resp: 208092

Ion Ratio Lower Upper

50 100

52 33.8 26.5 39.7



Abundance Ion 50.00 (49.70 to 50.70): VNO

Ion 52.00 (51.70 to 52.70): VNO

2.06

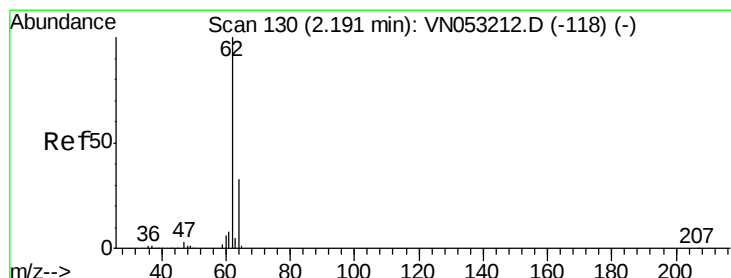
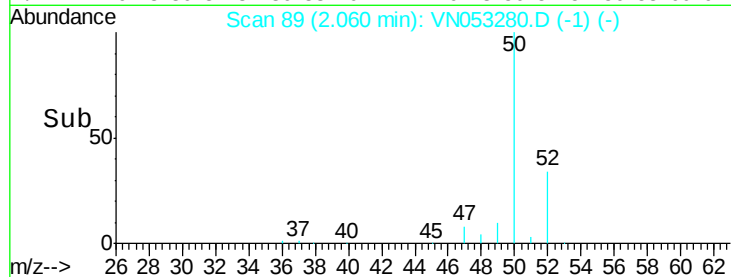
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 19.350 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN053280.D

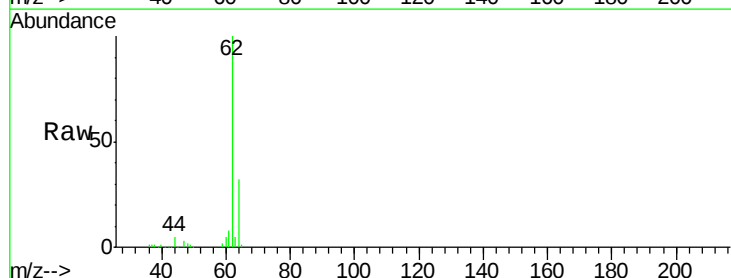
Acq: 4 Jan 2019 10:50

Tgt Ion: 62 Resp: 205031

Ion Ratio Lower Upper

62 100

64 31.5 24.2 36.4



Abundance Ion 62.00 (61.70 to 62.70): VNO

Ion 64.00 (63.70 to 64.70): VNO

2.19

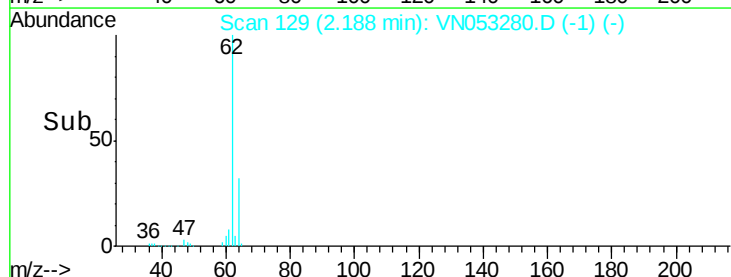
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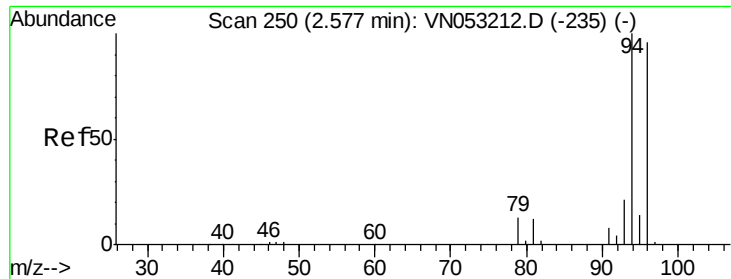
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50000

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Time-->





#5

Bromomethane

Concen: 19.967 ug/l

RT: 2.57 min Scan# 248

Delta R.T. -0.01 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

Instrument :

MSVOA\_N

ClientSampleId :

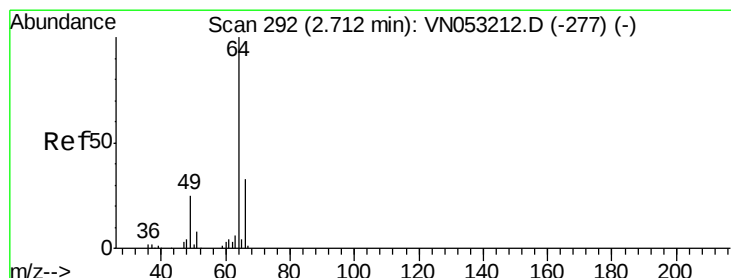
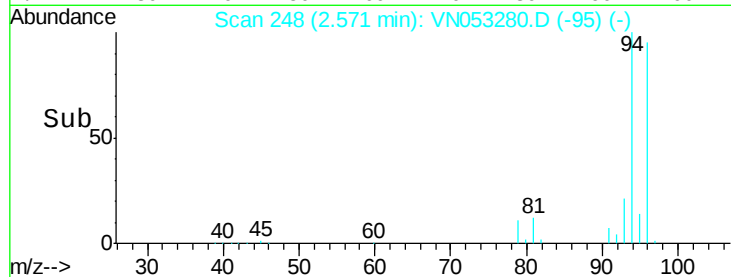
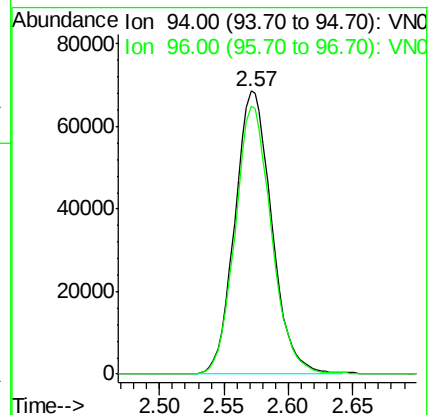
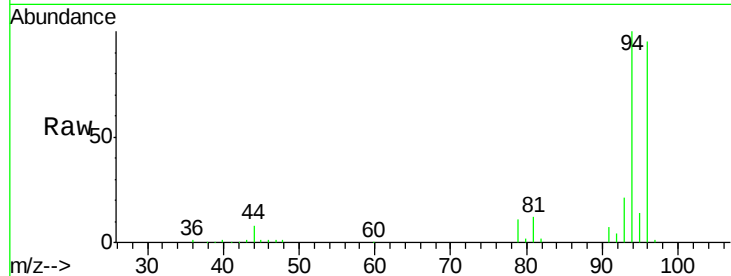
VN0104WBSD01

Tot Ion: 94 Resp: 136409

Ion Ratio Lower Upper

94 100

96 94.8 76.2 114.2



#6

Chloroethane

Concen: 19.159 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN053280.D

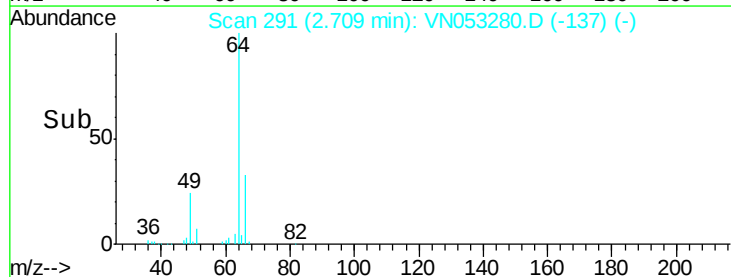
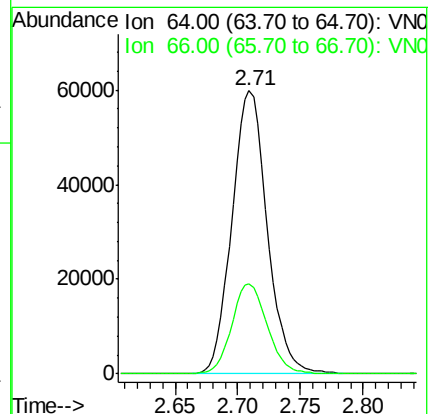
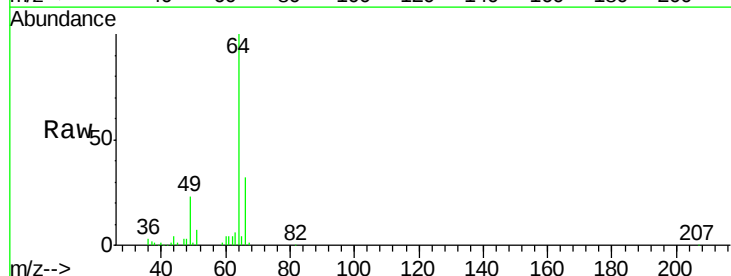
Acq: 4 Jan 2019 10:50

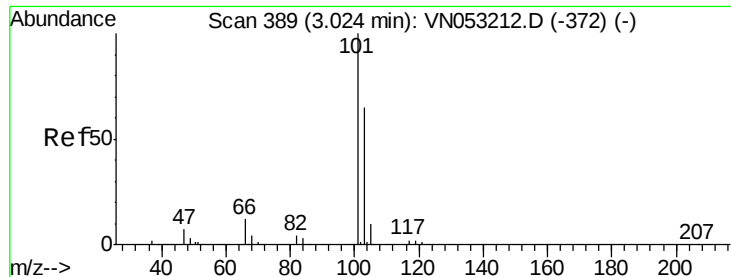
Tgt Ion: 64 Resp: 116943

Ion Ratio Lower Upper

64 100

66 31.7 25.6 38.4



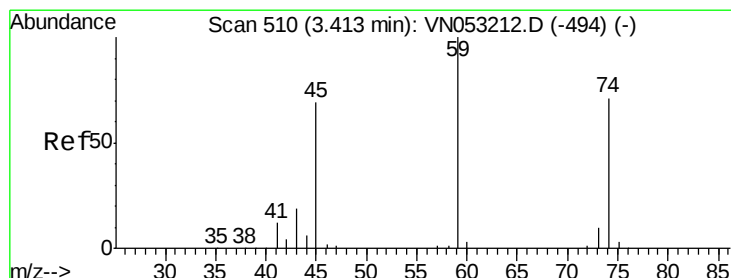
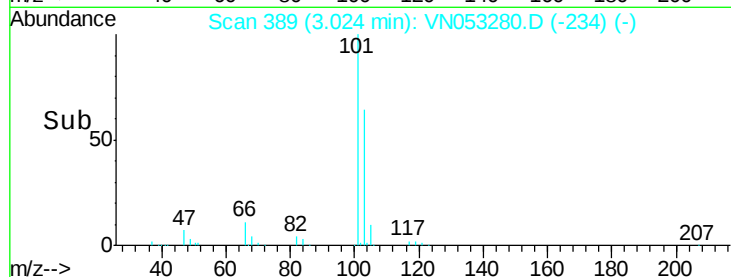
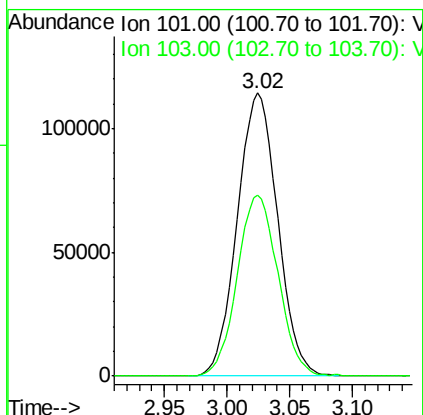
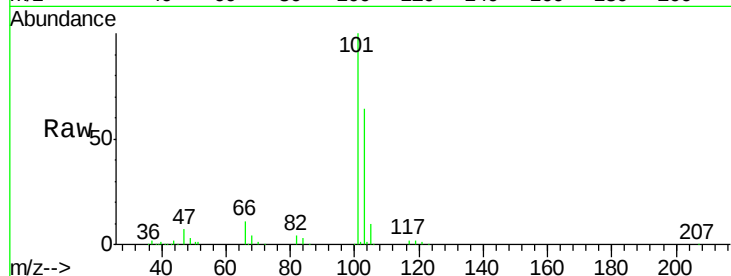


#7

Trichlorofluoromethane  
 Concen: 19.606 ug/l  
 RT: 3.02 min Scan# 389  
 Delta R.T. -0.00 min  
 Lab File: VN053280.D  
 Acq: 4 Jan 2019 10:50

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VN0104WBSD01

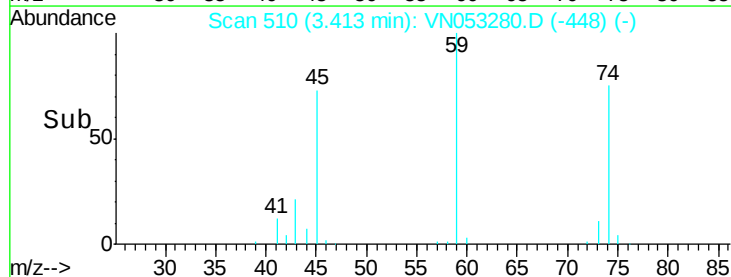
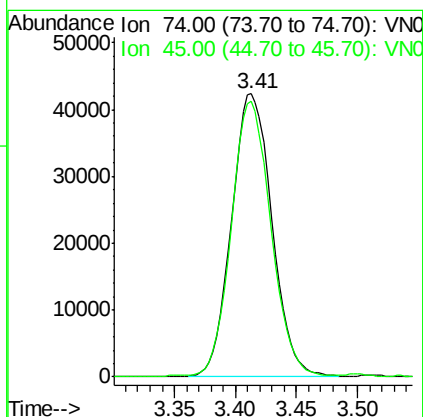
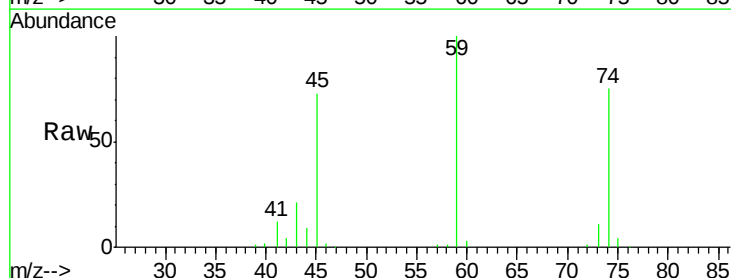
Tot Ion:101 Resp: 256548  
 Ion Ratio Lower Upper  
 101 100  
 103 64.1 52.1 78.1

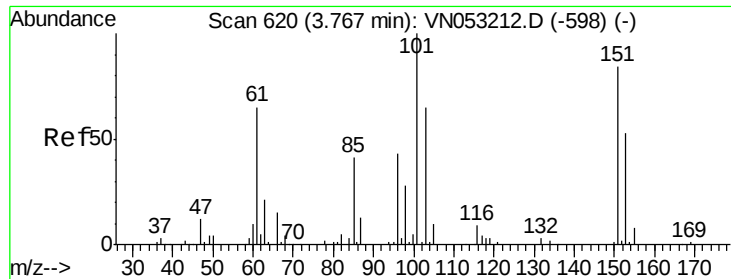


#8

Diethyl Ether  
 Concen: 20.041 ug/l  
 RT: 3.41 min Scan# 510  
 Delta R.T. -0.00 min  
 Lab File: VN053280.D  
 Acq: 4 Jan 2019 10:50

Tgt Ion: 74 Resp: 97432  
 Ion Ratio Lower Upper  
 74 100  
 45 95.3 20.6 185.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.634 ug/l

RT: 3.76 min Scan# 619

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

Instrument :

MSVOA\_N

ClientSampled :

VN0104WBSD01

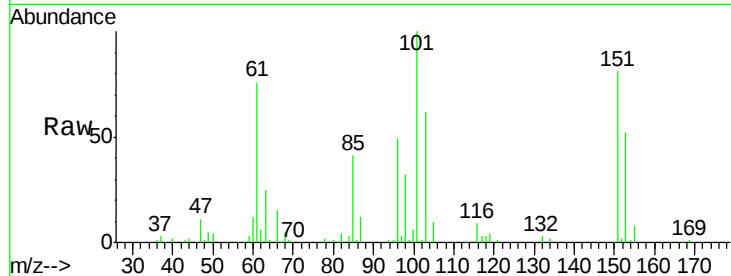
Tot Ion:101 Resp: 161424

Ion Ratio Lower Upper

101 100

85 40.8 0.0 82.6

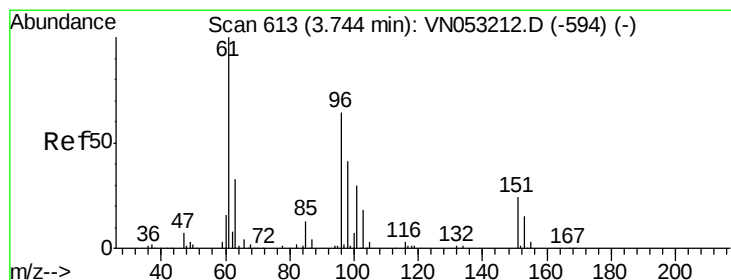
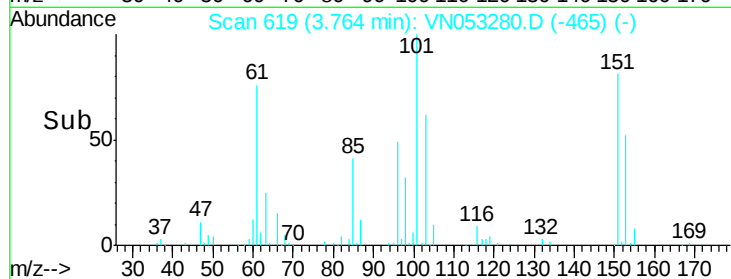
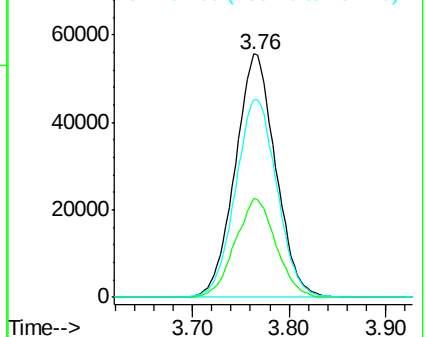
151 83.6 0.0 158.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VNO

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 19.098 ug/l

RT: 3.74 min Scan# 612

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

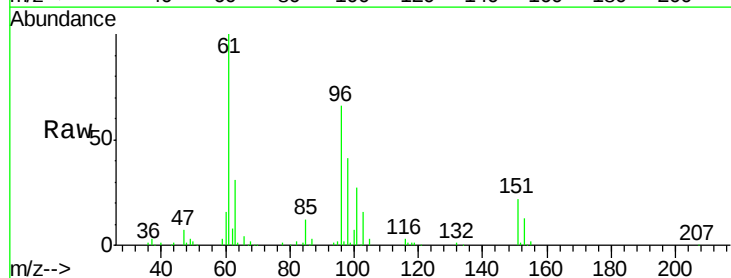
Tgt Ion: 96 Resp: 153226

Ion Ratio Lower Upper

96 100

61 150.4 129.4 194.2

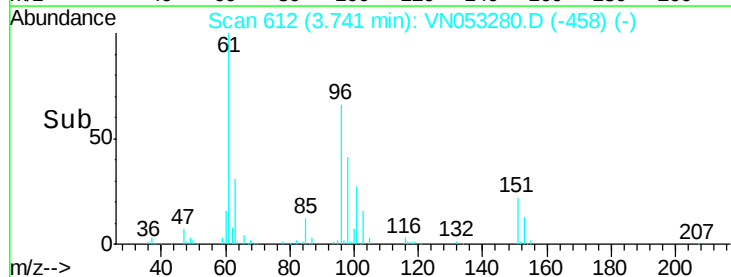
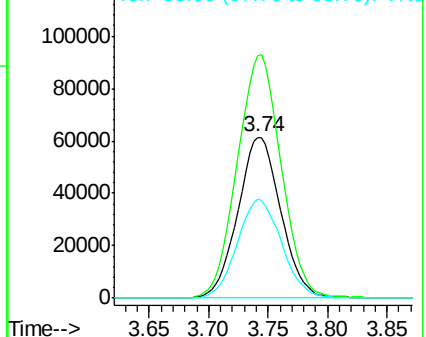
98 61.4 50.4 75.6

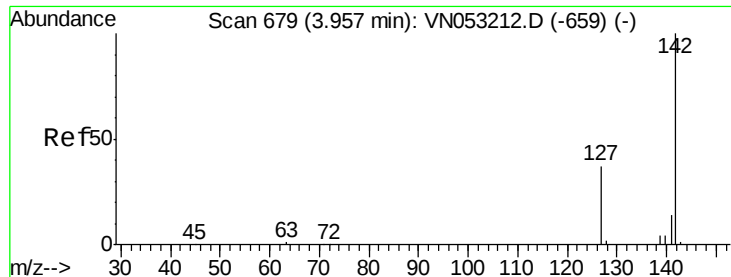


Abundance Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO

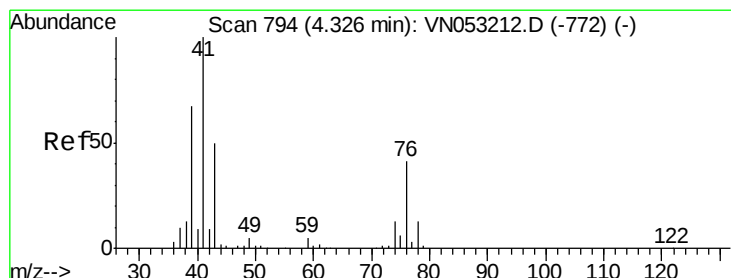
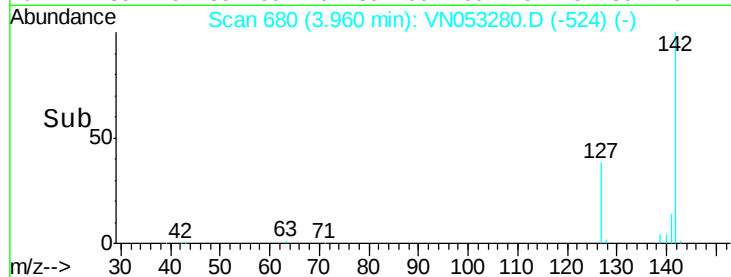
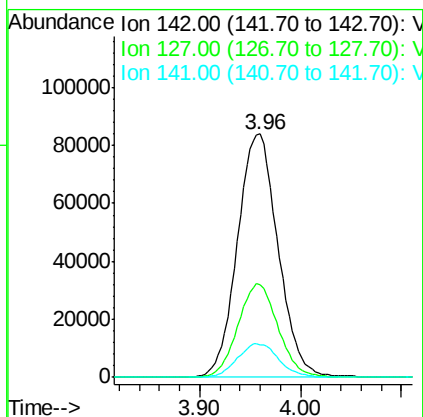
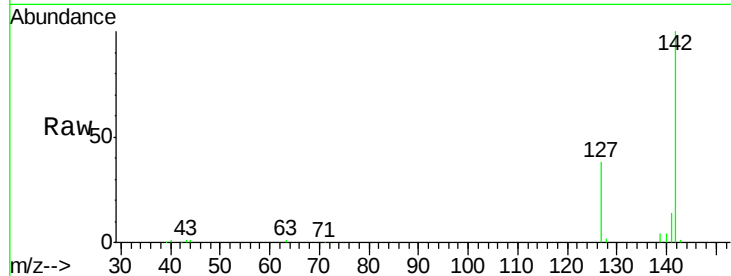




#11  
Methvl Iodide  
Concen: 19.978 ug/l  
RT: 3.96 min Scan# 680  
Delta R.T. 0.00 min  
Lab File: VN053280.D  
Acq: 4 Jan 2019 10:50

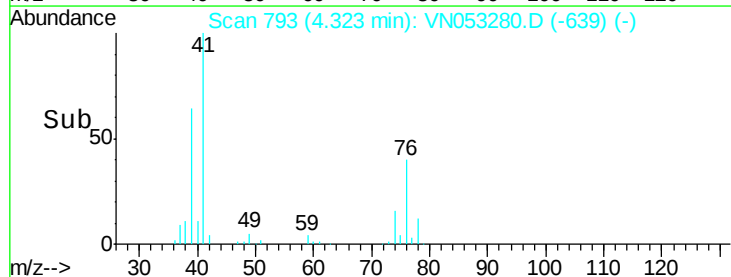
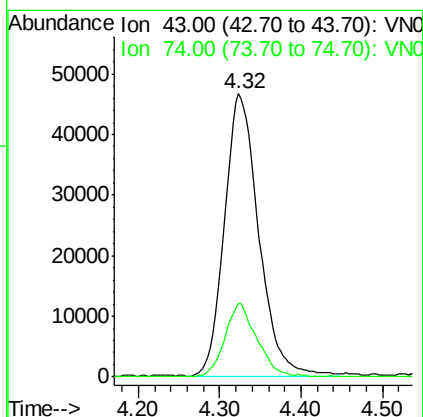
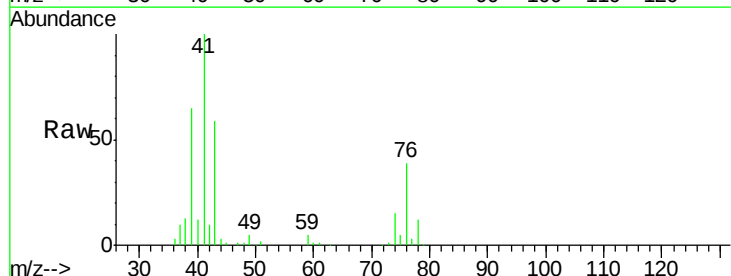
Instrument :  
MSVOA\_N  
ClientSampled :  
VN0104WBSD01

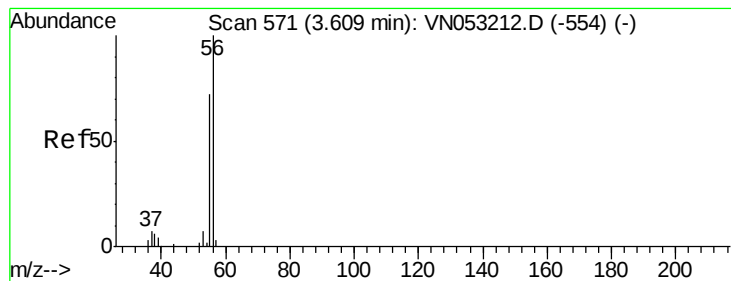
Tot Ion:142 Resp: 234731  
Ion Ratio Lower Upper  
142 100  
127 38.2 19.4 58.1  
141 13.6 7.2 21.6



#12  
Methyl Acetate  
Concen: 22.156 ug/l  
RT: 4.32 min Scan# 793  
Delta R.T. -0.00 min  
Lab File: VN053280.D  
Acq: 4 Jan 2019 10:50

Tgt Ion: 43 Resp: 138550  
Ion Ratio Lower Upper  
43 100  
74 25.9 18.9 28.3





#13

Acrolein

Concen: 93.642 ug/l

RT: 3.61 min Scan# 571

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

Instrument :

MSVOA\_N

ClientSampleId :

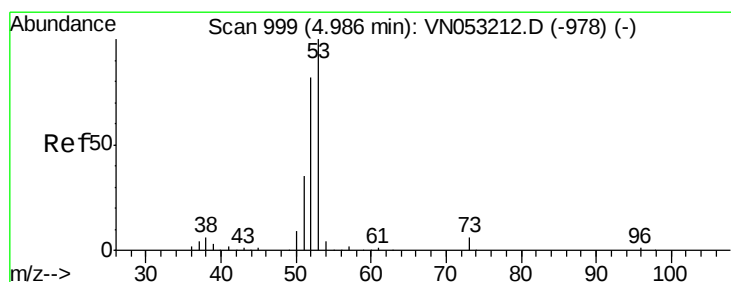
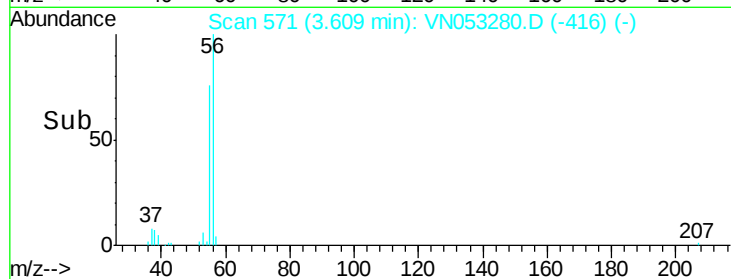
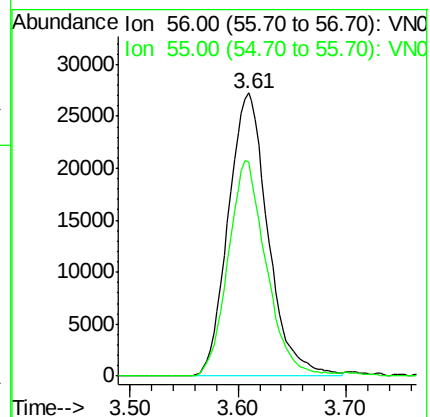
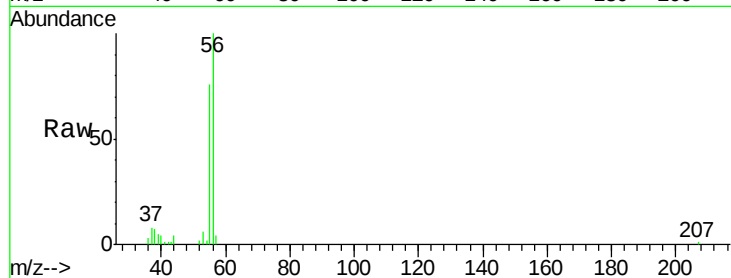
VN0104WBSD01

Tot Ion: 56 Resp: 69914

Ion Ratio Lower Upper

56 100

55 72.4 56.7 85.1



#14

Acrylonitrile

Concen: 106.307 ug/l

RT: 4.99 min Scan# 999

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

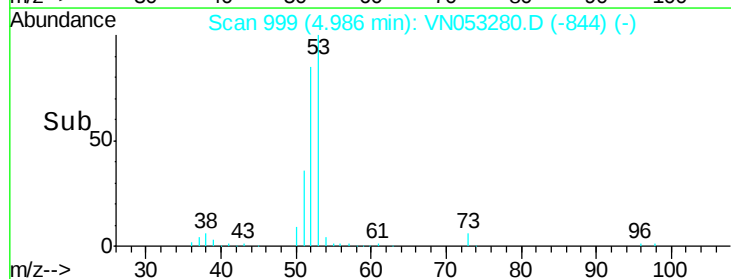
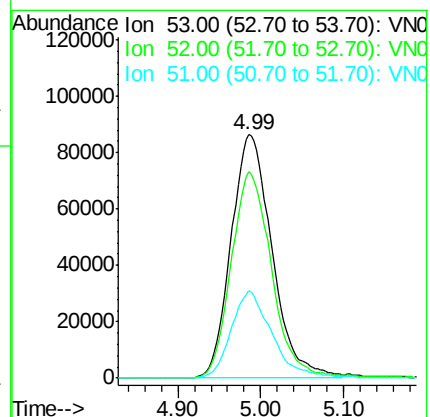
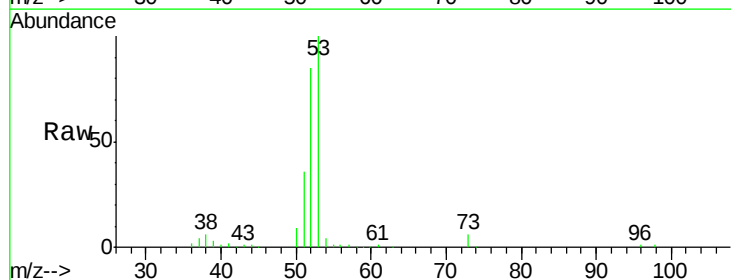
Tgt Ion: 53 Resp: 297402

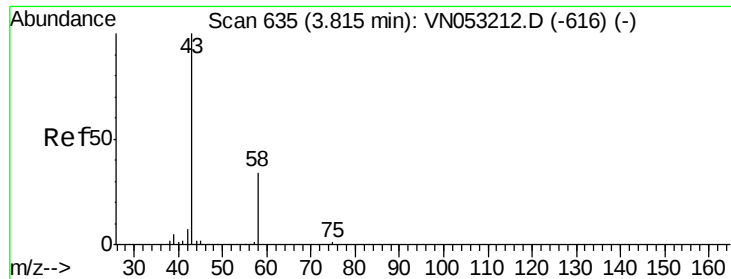
Ion Ratio Lower Upper

53 100

52 83.0 39.9 119.7

51 35.5 17.6 52.9





#15

Acetone

Concen: 120.469 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

Instrument :

MSVOA\_N

ClientSampled :

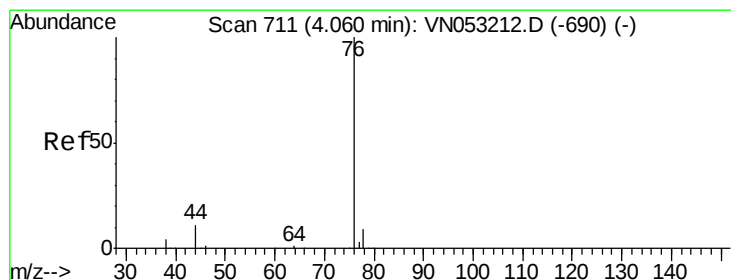
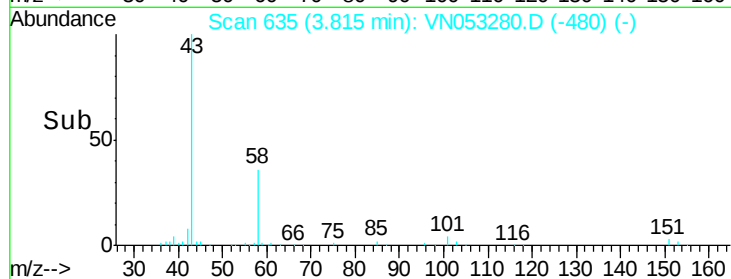
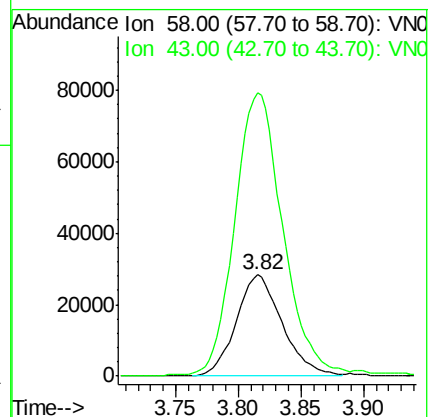
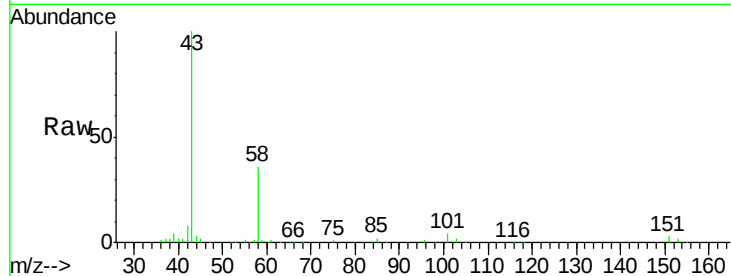
VN0104WBSD01

Tot Ion: 58 Resp: 71626

Ion Ratio Lower Upper

58 100

43 279.1 243.6 365.4



#16

Carbon Disulfide

Concen: 18.549 ug/l

RT: 4.06 min Scan# 711

Delta R.T. -0.00 min

Lab File: VN053280.D

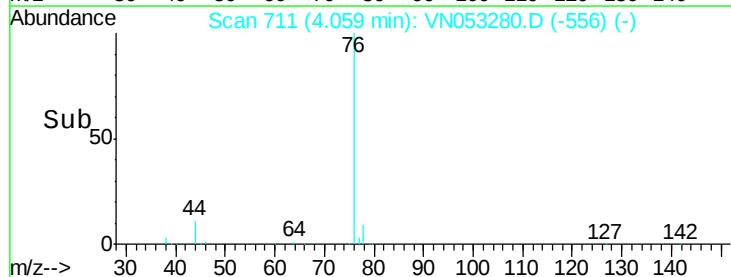
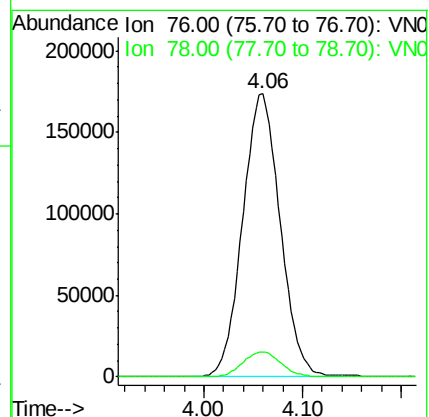
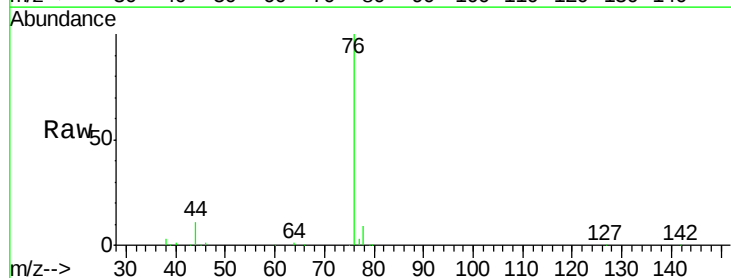
Acq: 4 Jan 2019 10:50

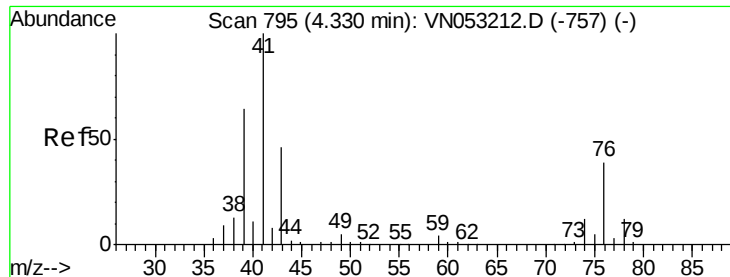
Tgt Ion: 76 Resp: 457822

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9





#17

Allvl chloride

Concen: 18.273 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

Instrument :

MSVOA\_N

ClientSampled :

VN0104WBSD01

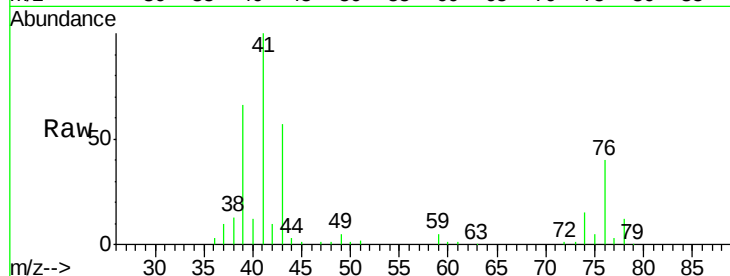
Tot Ion: 41 Resp: 230633

Ion Ratio Lower Upper

41 100

39 66.1 32.8 98.3

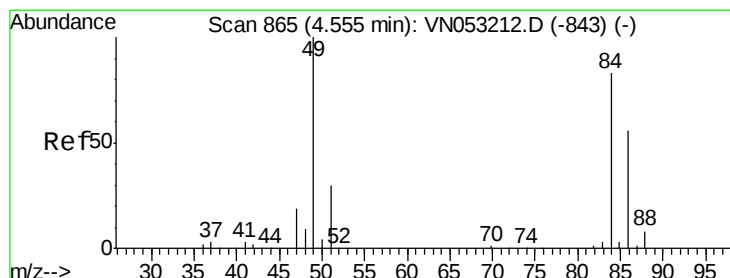
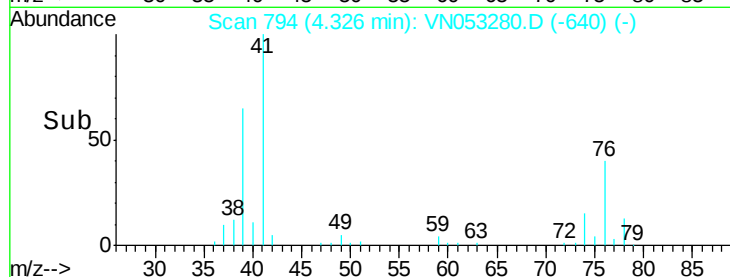
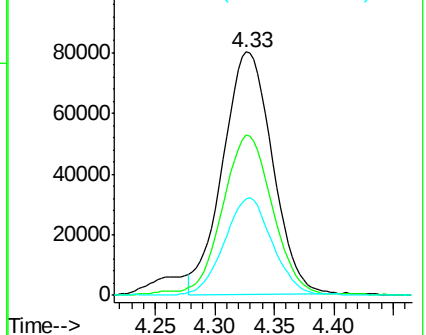
76 39.4 18.6 55.8



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 76.00 (75.70 to 76.70): VN0



#18

Methylene Chloride

Concen: 19.404 ug/l

RT: 4.55 min Scan# 865

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

Tgt Ion: 84 Resp: 178174

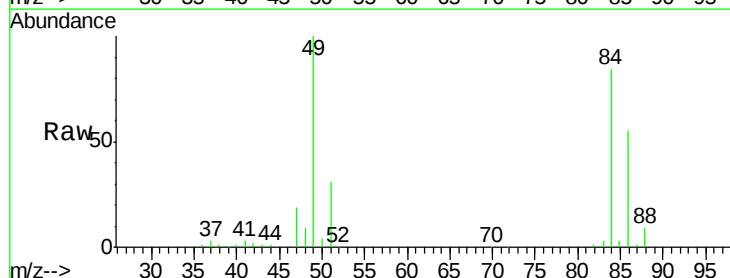
Ion Ratio Lower Upper

84 100

49 118.4 101.4 152.0

51 36.1 31.7 47.5

86 64.8 50.1 75.1

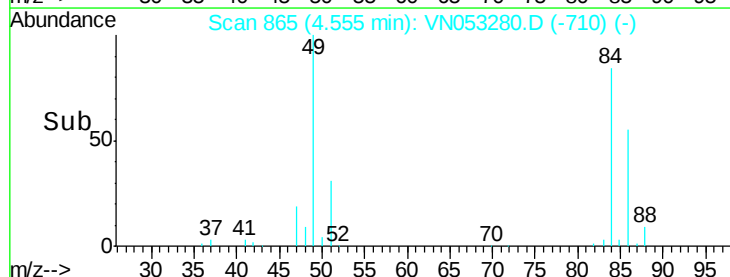
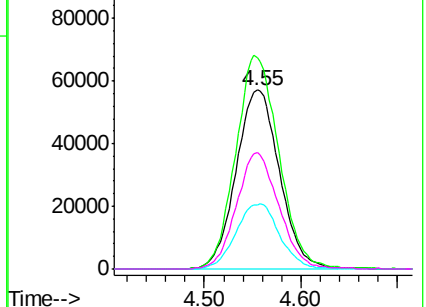


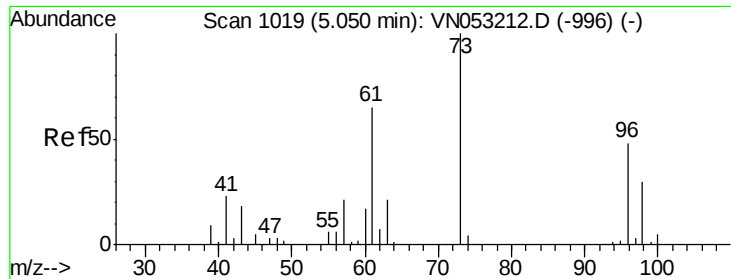
Abundance Ion 84.00 (83.70 to 84.70): VN0

Ion 49.00 (48.70 to 49.70): VN0

Ion 51.00 (50.70 to 51.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

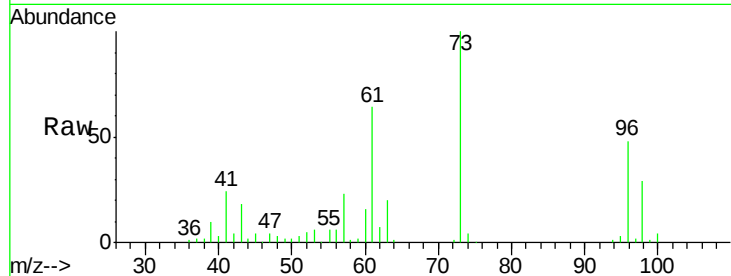




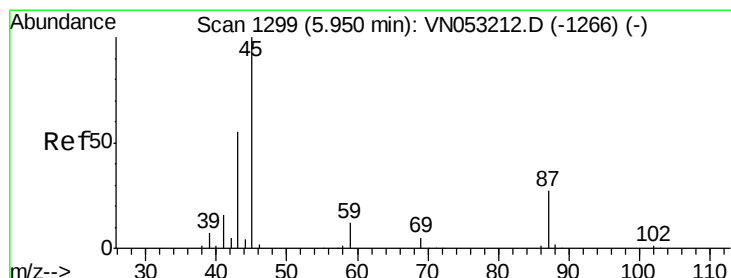
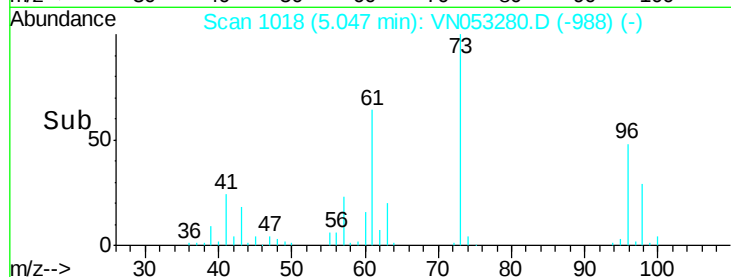
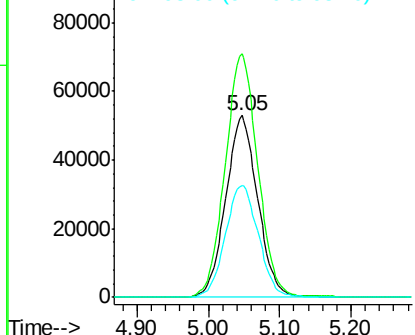
#19  
trans-1,2-Dichloroethene  
Concen: 19.497 ug/l  
RT: 5.05 min Scan# 1018  
Delta R.T. -0.00 min  
Lab File: VN053280.D  
Acq: 4 Jan 2019 10:50

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0104WBSD01

Tot Ion: 96 Resp: 165314  
Ion Ratio Lower Upper  
96 100  
61 133.6 118.2 177.4  
98 61.6 51.4 77.2

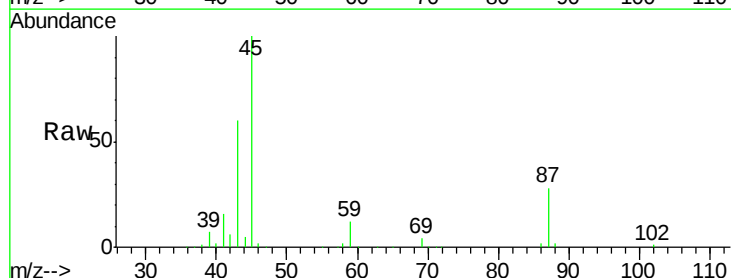


Abundance Ion 96.00 (95.70 to 96.70): VN0  
Ion 61.00 (60.70 to 61.70): VN0  
Ion 98.00 (97.70 to 98.70): VN0

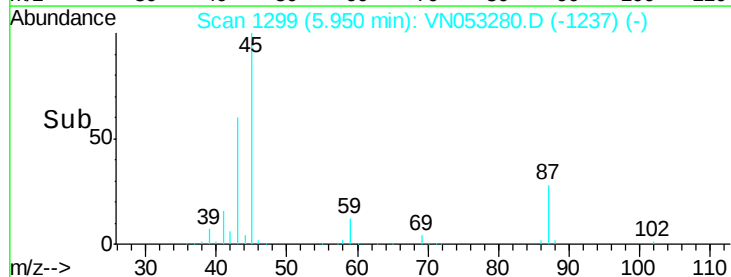
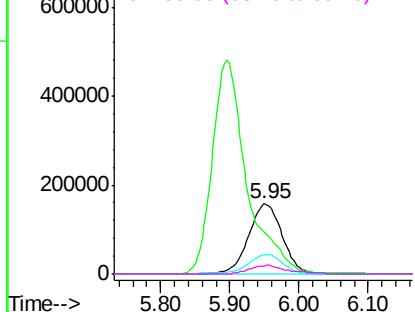


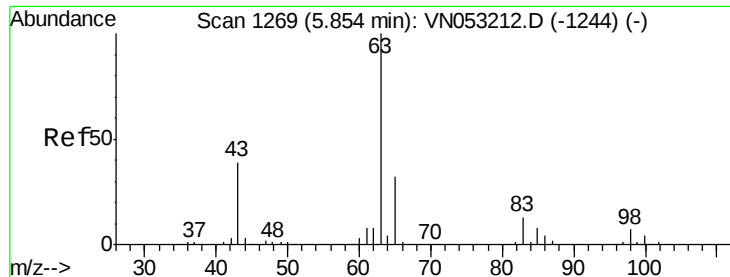
#20  
Diisopropyl ether  
Concen: 19.677 ug/l  
RT: 5.95 min Scan# 1299  
Delta R.T. -0.00 min  
Lab File: VN053280.D  
Acq: 4 Jan 2019 10:50

Tgt Ion: 45 Resp: 531866  
Ion Ratio Lower Upper  
45 100  
43 58.7 47.8 71.8  
87 27.6 21.3 31.9  
59 11.6 8.9 13.3



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

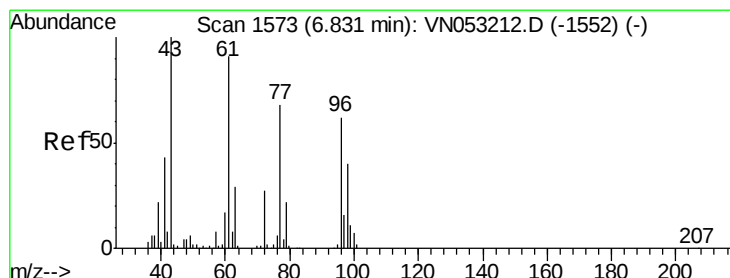
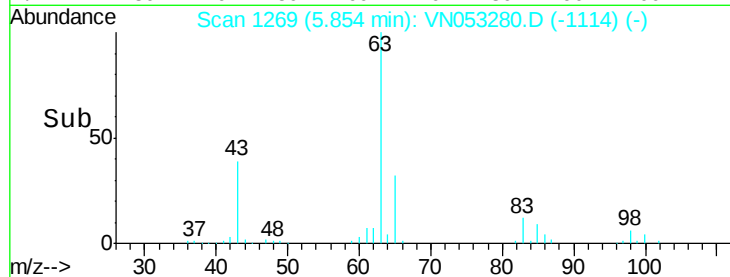
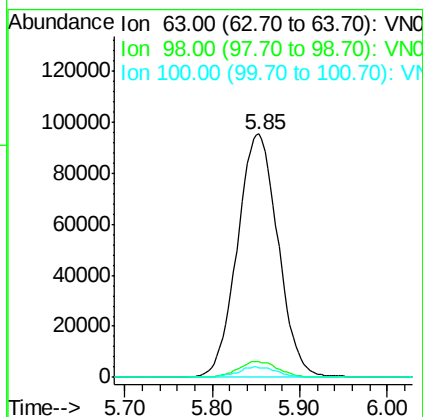
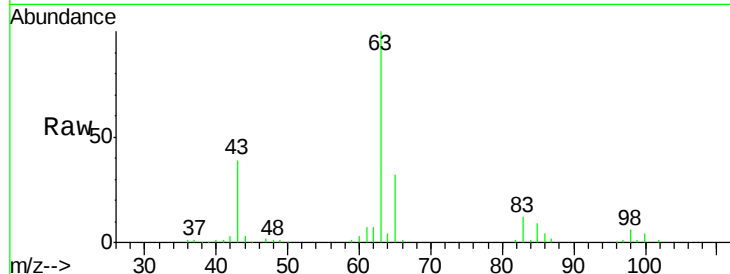




#21  
 1,1-Dichloroethane  
 Concen: 19.531 ug/l  
 RT: 5.85 min Scan# 1269  
 Delta R.T. -0.00 min  
 Lab File: VN053280.D  
 Acq: 4 Jan 2019 10:50

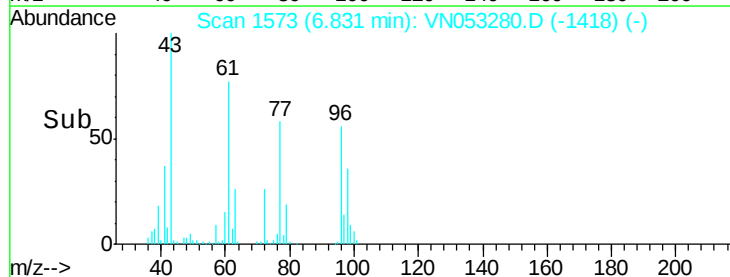
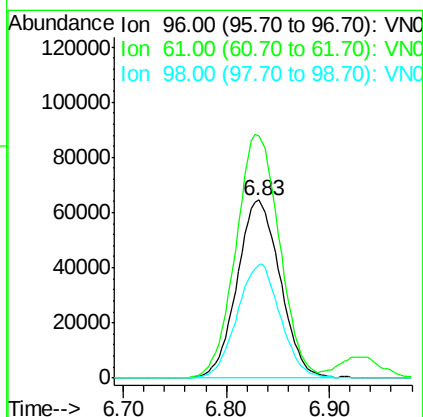
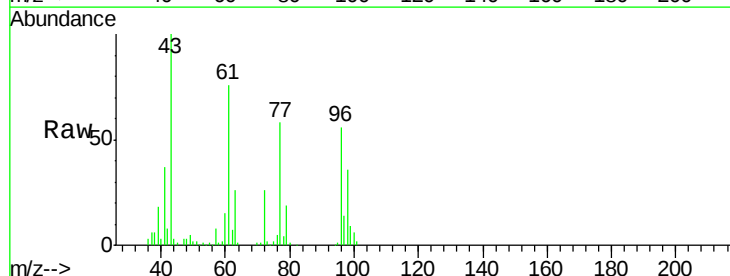
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0104WBSD01

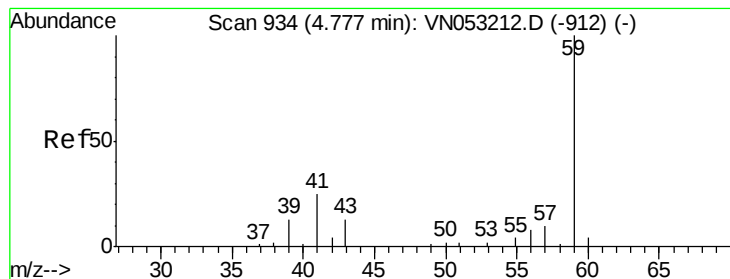
Tot Ion: 63 Resp: 307376  
 Ion Ratio Lower Upper  
 63 100  
 98 6.3 3.0 9.2  
 100 4.1 1.8 5.5



#22  
 cis-1,2-Dichloroethene  
 Concen: 19.632 ug/l  
 RT: 6.83 min Scan# 1573  
 Delta R.T. -0.00 min  
 Lab File: VN053280.D  
 Acq: 4 Jan 2019 10:50

Tgt Ion: 96 Resp: 187511  
 Ion Ratio Lower Upper  
 96 100  
 61 138.5 116.7 175.1  
 98 63.9 50.8 76.2



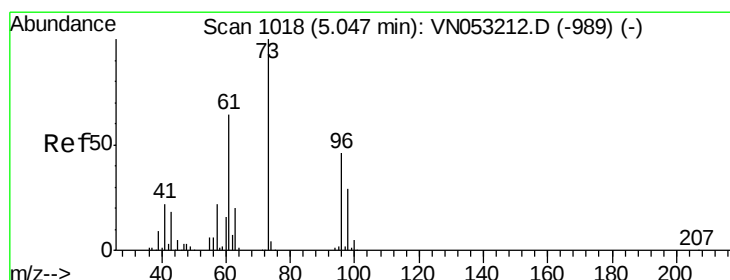
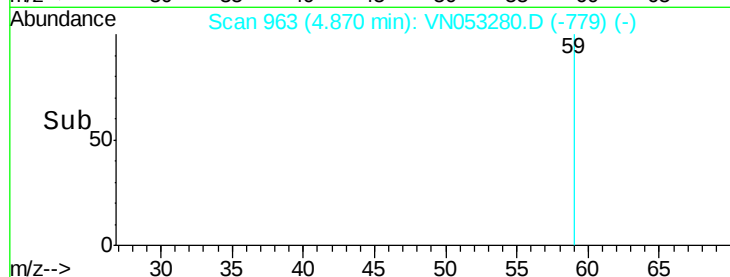
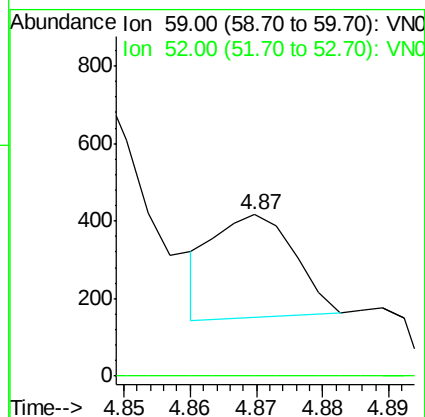
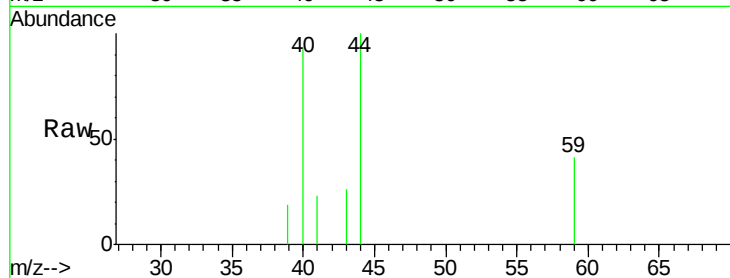


#23

tert-Butyl Alcohol  
 Concen: 0.479 ug/l  
 RT: 4.87 min Scan# 963  
 Delta R.T. 0.09 min  
 Lab File: VN053280.D  
 Acq: 4 Jan 2019 10:50

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0104WBSD01

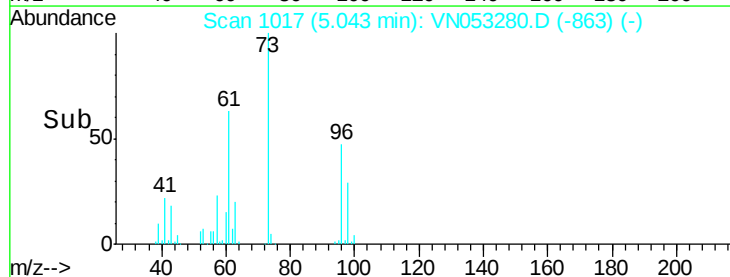
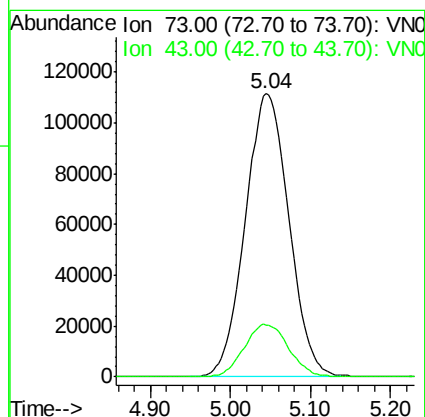
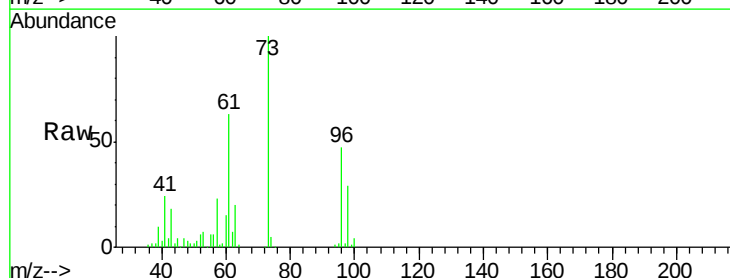
Tot Ion: 59 Resp: 226  
 Ion Ratio Lower Upper  
 59 100  
 52 0.0 0.0 0.0

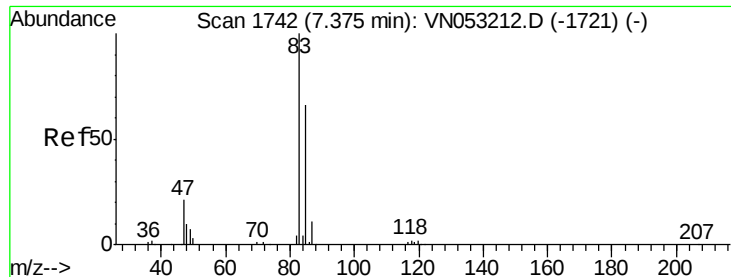


#24

Methyl tert-Butyl Ether  
 Concen: 19.893 ug/l  
 RT: 5.04 min Scan# 1017  
 Delta R.T. -0.00 min  
 Lab File: VN053280.D  
 Acq: 4 Jan 2019 10:50

Tgt Ion: 73 Resp: 416188  
 Ion Ratio Lower Upper  
 73 100  
 43 18.9 15.8 23.8





#25

Chloroform

Concen: 19.888 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

Instrument :

MSVOA\_N

ClientSampled :

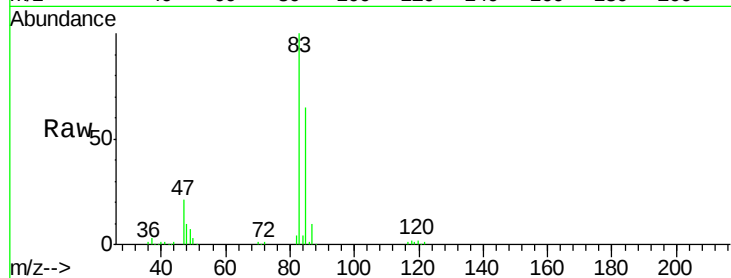
VN0104WBSD01

Tot Ion: 83 Resp: 300858

Ion Ratio Lower Upper

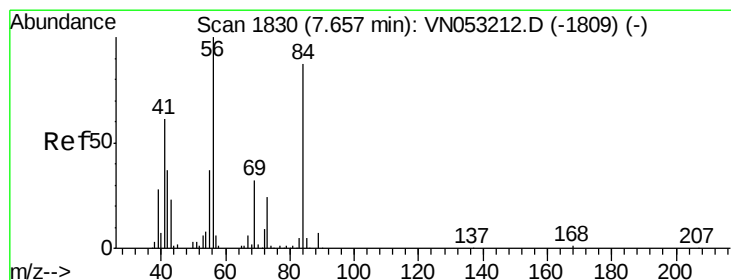
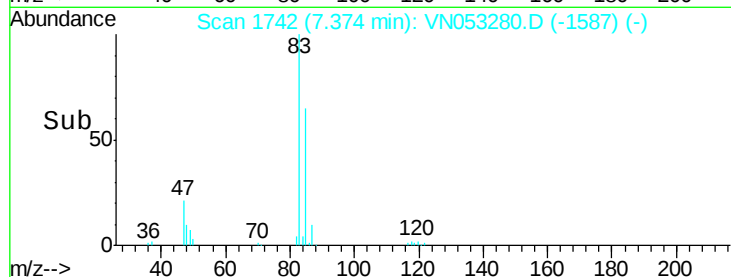
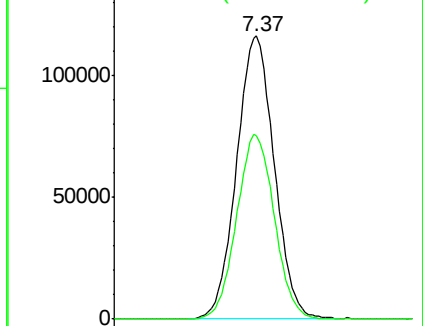
83 100

85 64.8 51.7 77.5



Abundance Ion 83.00 (82.70 to 83.70): VNO

Ion 85.00 (84.70 to 85.70): VNO



#26

Cyclohexane

Concen: 18.743 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

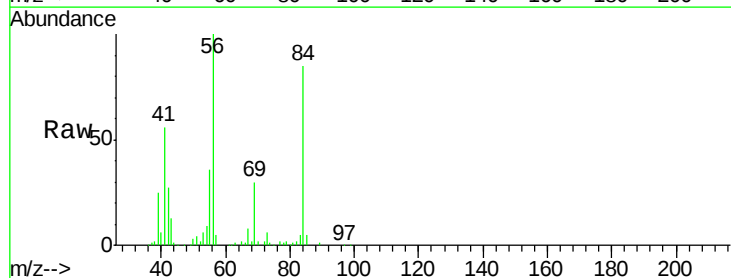
Tgt Ion: 56 Resp: 275129

Ion Ratio Lower Upper

56 100

89 1.2 0.5 0.7#

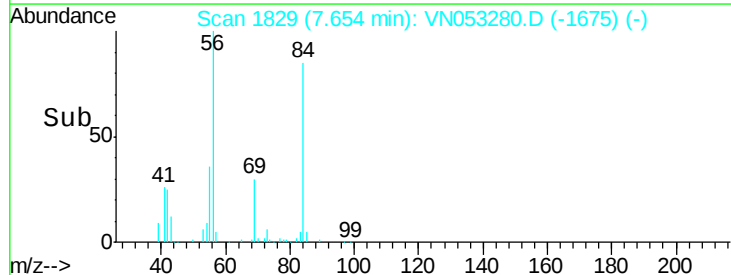
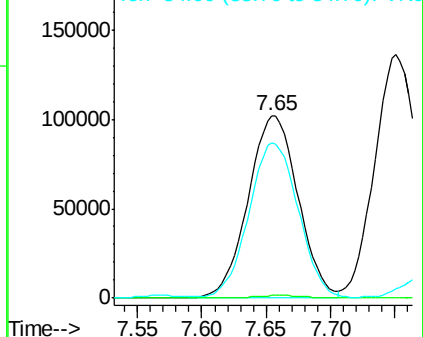
84 84.5 66.2 99.2

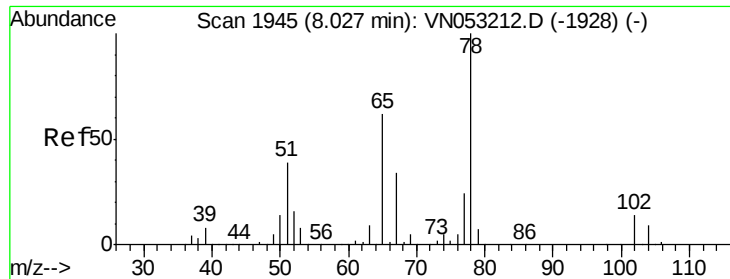


Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 89.00 (88.70 to 89.70): VNO

Ion 84.00 (83.70 to 84.70): VNO

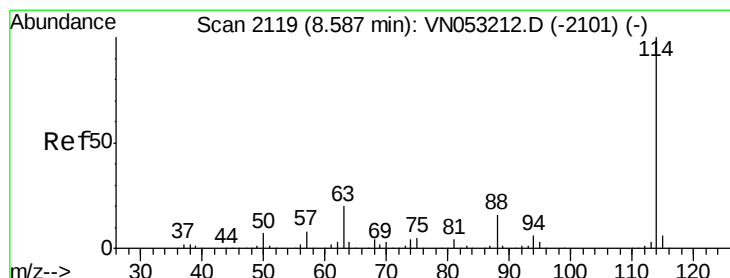
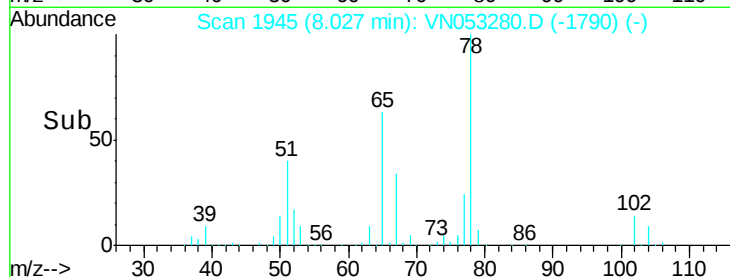
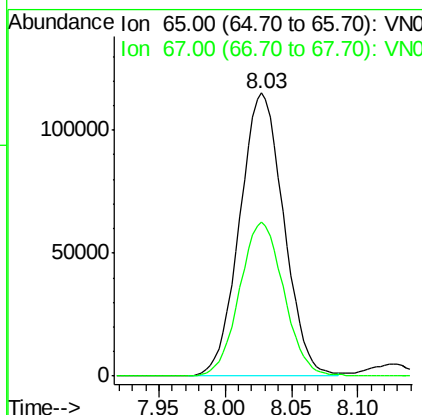
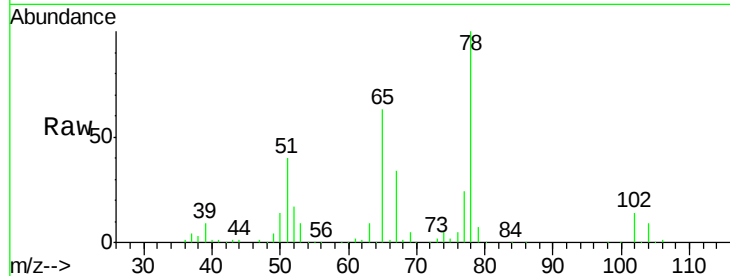




#27  
 1,2-Dichloroethane-d4  
 Concen: 18.743 ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. -0.00 min  
 Lab File: VN053280.D  
 Acq: 4 Jan 2019 10:50

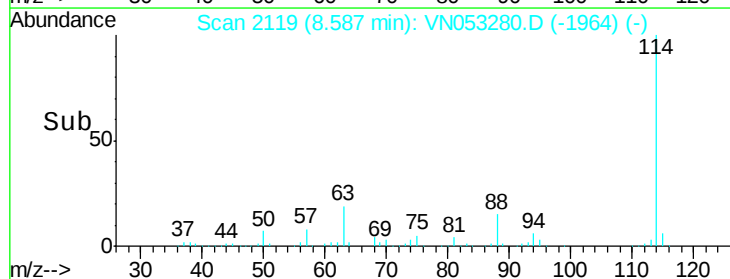
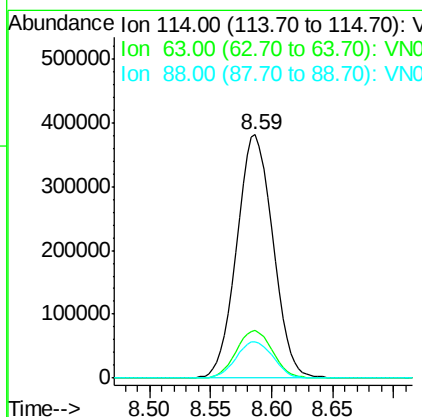
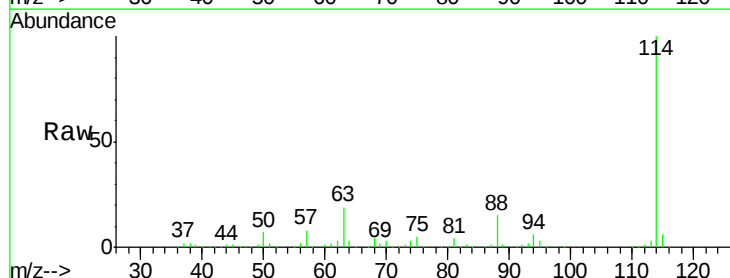
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0104WBSD01

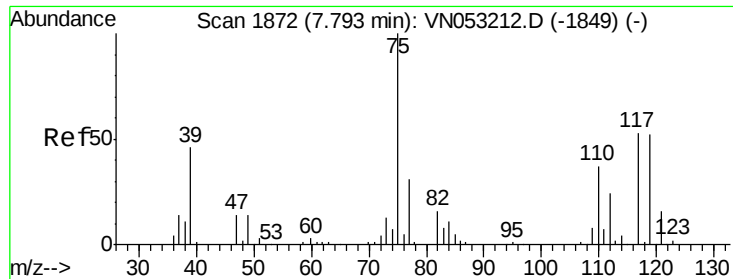
Tot Ion: 65 Resp: 265876  
 Ion Ratio Lower Upper  
 65 100  
 67 54.5 44.6 66.8



#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. -0.00 min  
 Lab File: VN053280.D  
 Acq: 4 Jan 2019 10:50

Tgt Ion: 114 Resp: 783416  
 Ion Ratio Lower Upper  
 114 100  
 63 19.8 16.9 25.3  
 88 15.3 12.8 19.2

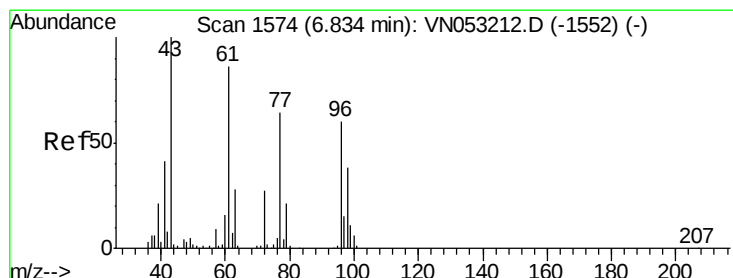
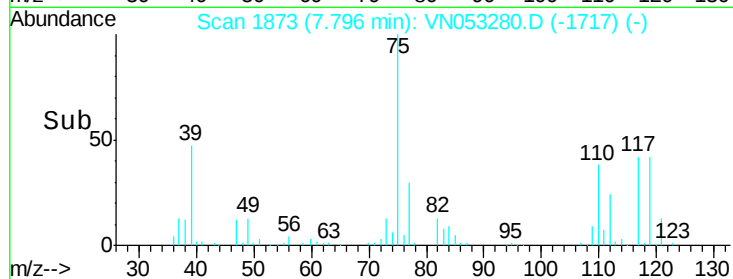
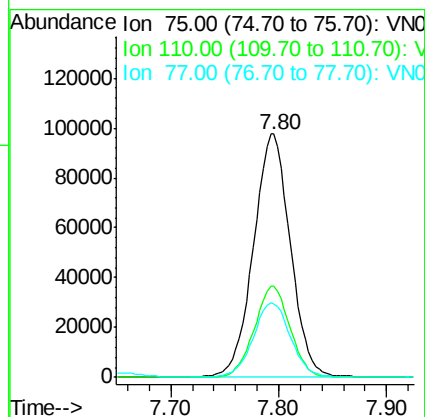
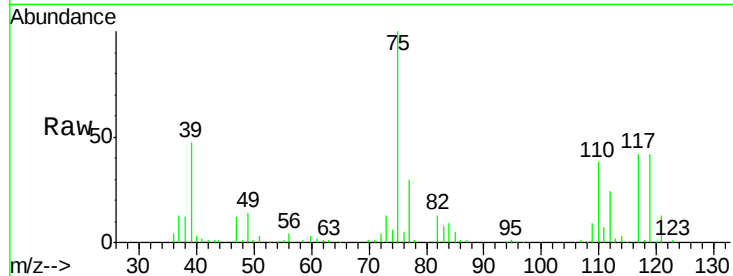




#29  
 1,1-Dichloropropene  
 Concen: 19.488 ug/l  
 RT: 7.80 min Scan# 1873  
 Delta R.T. 0.00 min  
 Lab File: VN053280.D  
 Acq: 4 Jan 2019 10:50

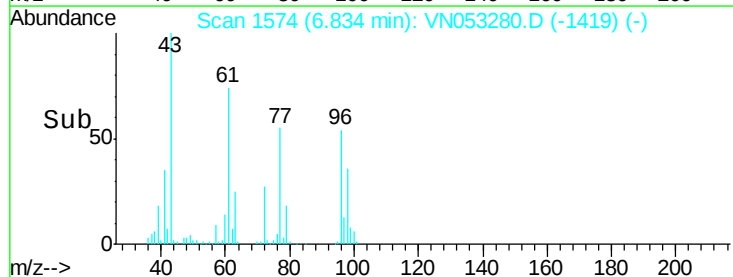
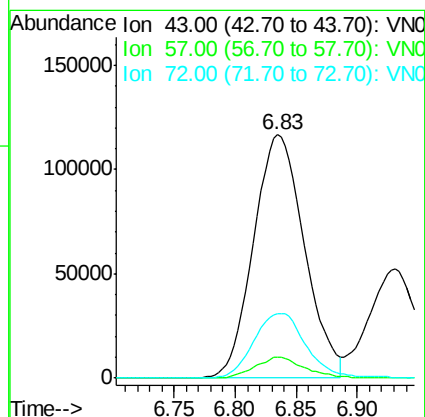
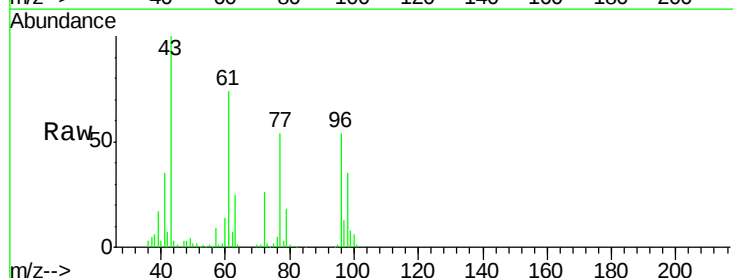
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0104WBSD01

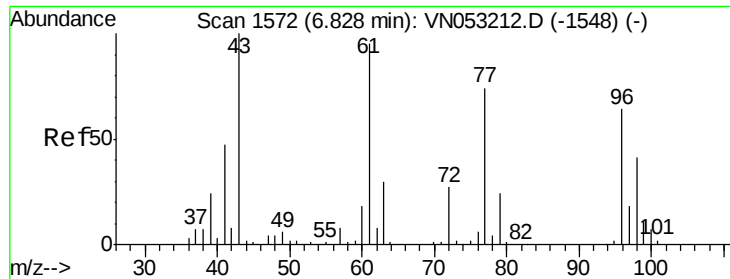
Tot Ion: 75 Resp: 231259  
 Ion Ratio Lower Upper  
 75 100  
 110 36.4 0.0 70.2  
 77 31.1 0.0 62.6



#30  
 2-Butanone  
 Concen: 113.611 ug/l  
 RT: 6.83 min Scan# 1574  
 Delta R.T. -0.00 min  
 Lab File: VN053280.D  
 Acq: 4 Jan 2019 10:50

Tgt Ion: 43 Resp: 336357  
 Ion Ratio Lower Upper  
 43 100  
 57 8.4 6.2 9.4  
 72 27.5 21.0 31.6

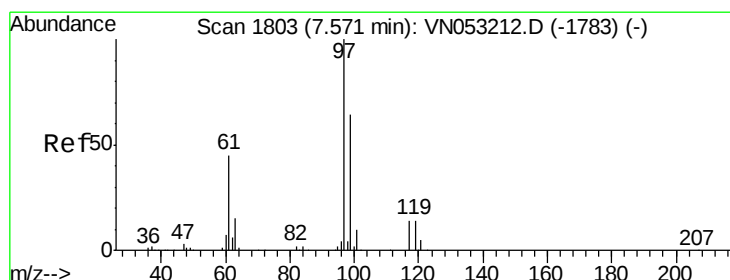
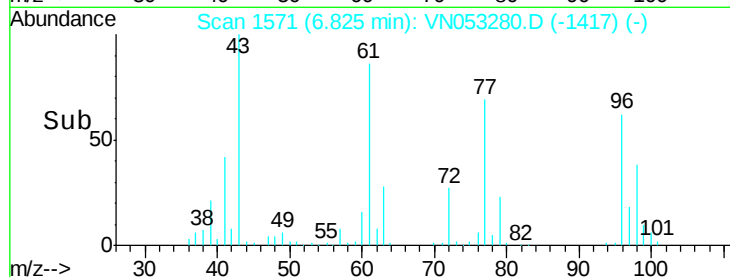
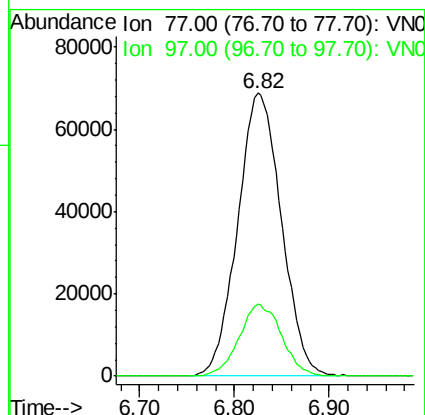
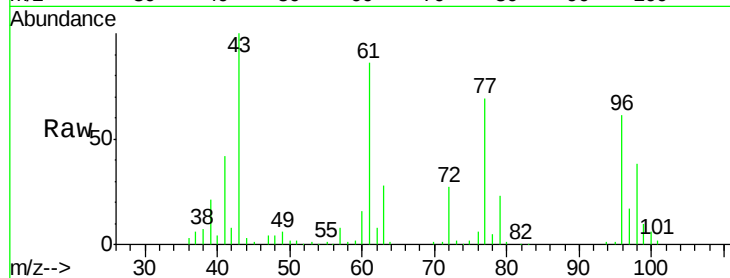




#31  
 2,2-Dichloropropane  
 Concen: 19.054 ug/l  
 RT: 6.82 min Scan# 1571  
 Delta R.T. -0.00 min  
 Lab File: VN053280.D  
 Acq: 4 Jan 2019 10:50

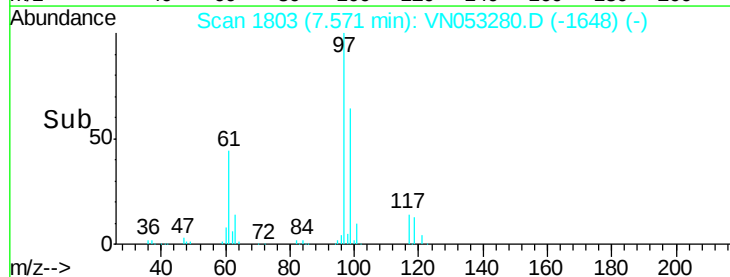
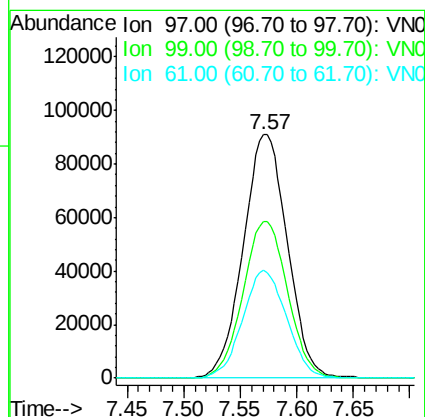
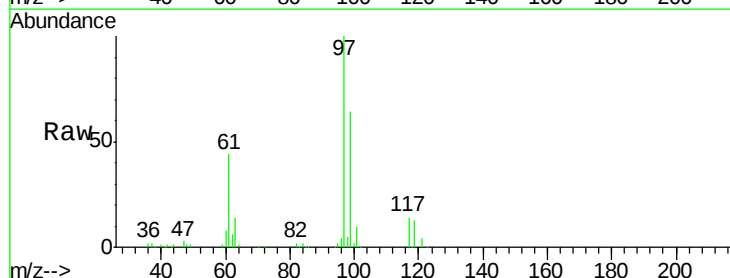
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0104WBSD01

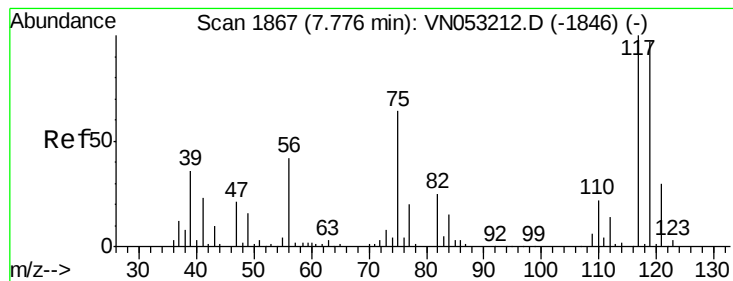
Tot Ion: 77 Resp: 218896  
 Ion Ratio Lower Upper  
 77 100  
 97 24.8 18.7 28.1



#32  
 1,1,1-Trichloroethane  
 Concen: 19.865 ug/l  
 RT: 7.57 min Scan# 1803  
 Delta R.T. -0.00 min  
 Lab File: VN053280.D  
 Acq: 4 Jan 2019 10:50

Tgt Ion: 97 Resp: 246987  
 Ion Ratio Lower Upper  
 97 100  
 99 64.9 50.9 76.3  
 61 44.0 38.1 57.1





#33

Carbon Tetrachloride

Concen: 19.805 ug/l

RT: 7.78 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

Instrument :

MSVOA\_N

ClientSampleId :

VN0104WBSD01

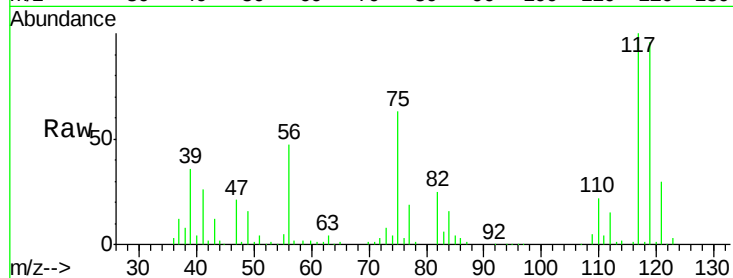
Tot Ion:117 Resp: 215549

Ion Ratio Lower Upper

117 100

119 95.5 77.3 115.9

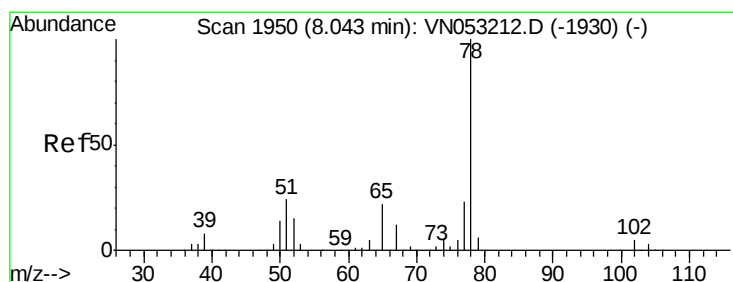
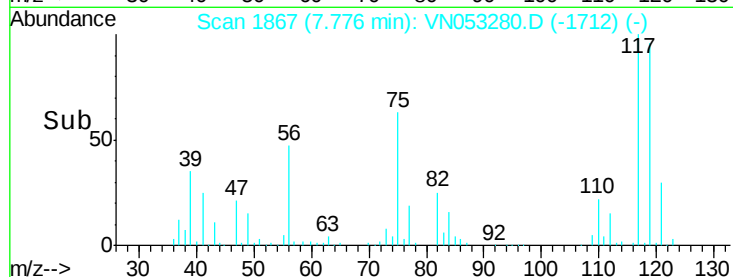
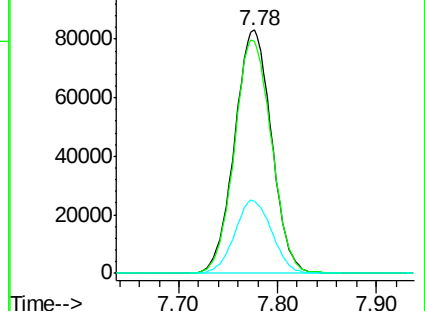
121 29.7 24.9 37.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#34

Benzene

Concen: 19.902 ug/l

RT: 8.04 min Scan# 1950

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

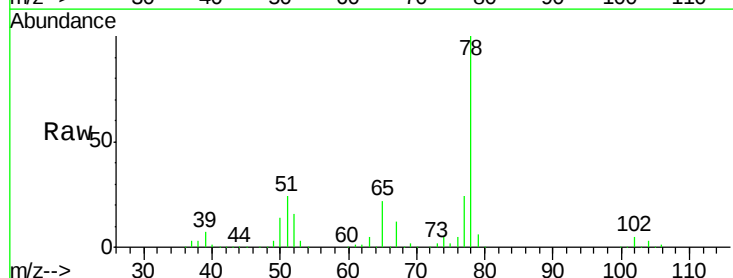
Tgt Ion: 78 Resp: 709757

Ion Ratio Lower Upper

78 100

77 23.8 19.0 28.6

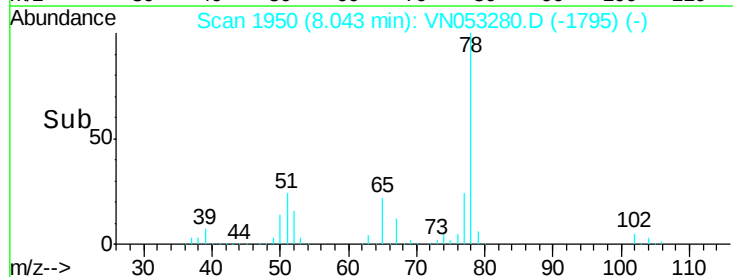
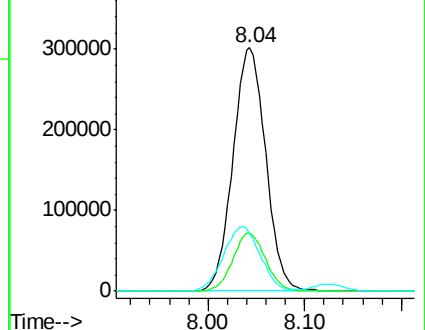
51 23.6 20.5 30.7

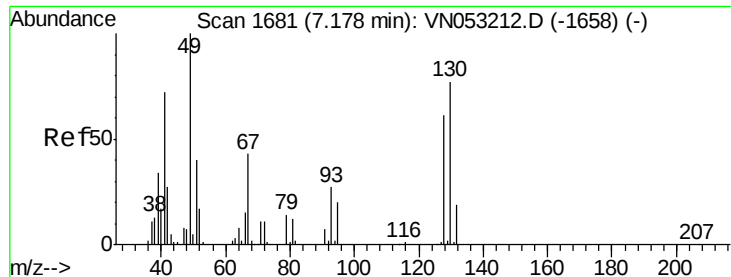


Abundance Ion 78.10 (77.80 to 78.80): V

Ion 77.00 (76.70 to 77.70): V

Ion 51.00 (50.70 to 51.70): V

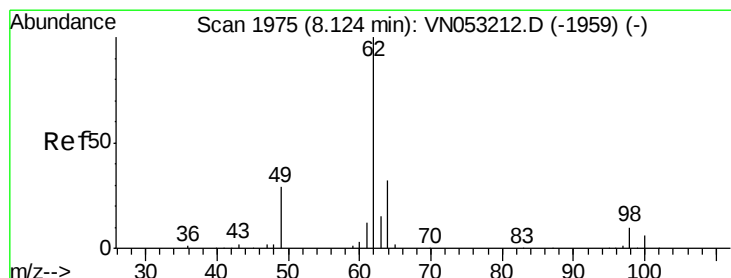
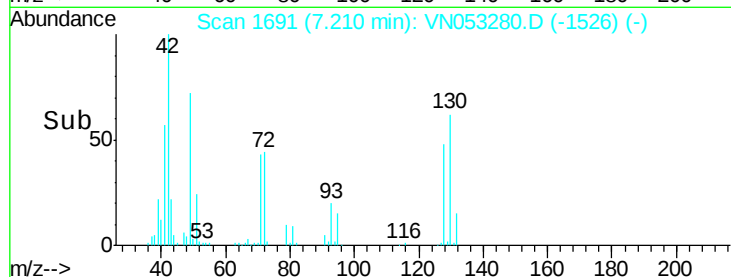
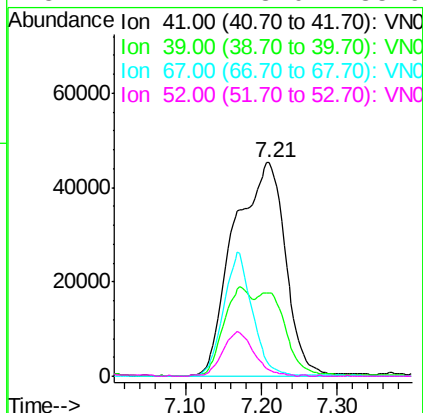
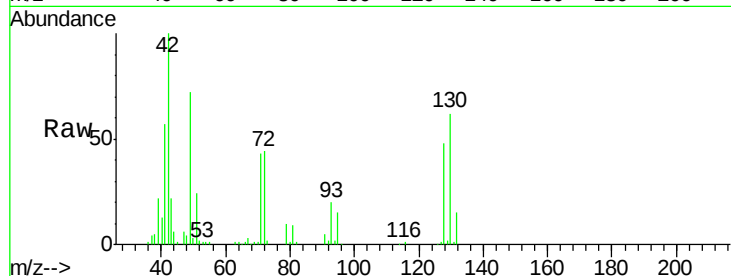




#35  
Methacrylonitrile  
Concen: 55.927 ug/l  
RT: 7.21 min Scan# 1691  
Delta R.T. 0.03 min  
Lab File: VN053280.D  
Acq: 4 Jan 2019 10:50

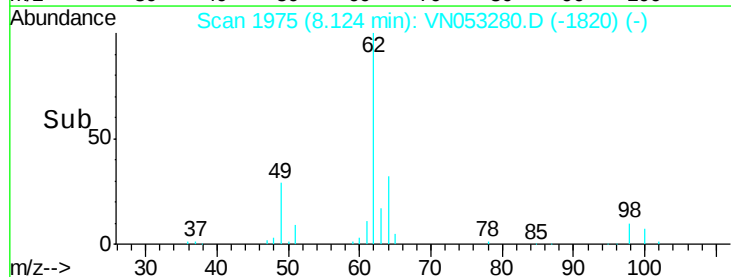
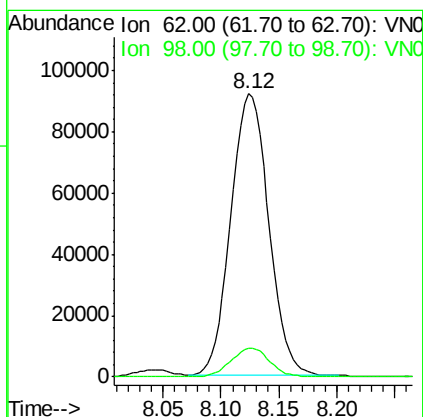
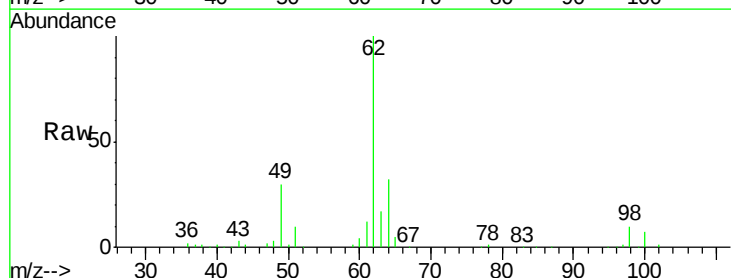
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0104WBSD01

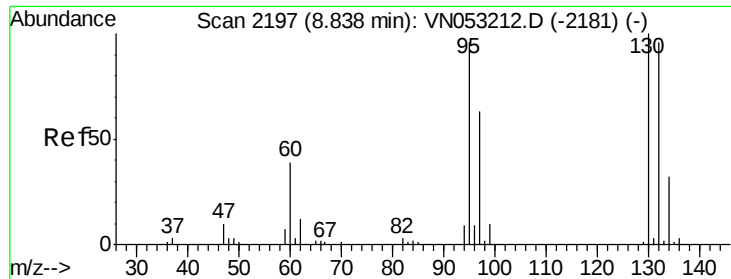
Tot Ion: 41 Resp: 213660  
Ion Ratio Lower Upper  
41 100  
39 39.2 26.6 79.7  
67 5.1 32.3 96.9#  
52 2.7 13.0 38.9#



#36  
1,2-Dichloroethane  
Concen: 20.218 ug/l  
RT: 8.12 min Scan# 1975  
Delta R.T. -0.00 min  
Lab File: VN053280.D  
Acq: 4 Jan 2019 10:50

Tgt Ion: 62 Resp: 209320  
Ion Ratio Lower Upper  
62 100  
98 10.4 7.4 11.2

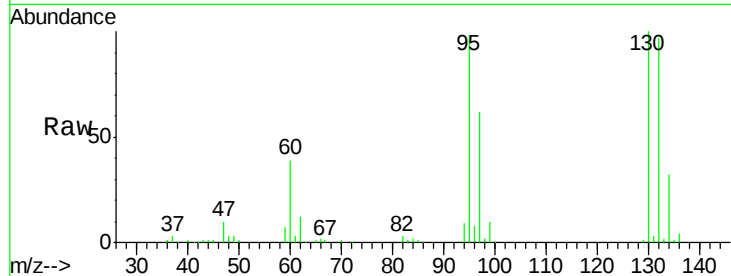




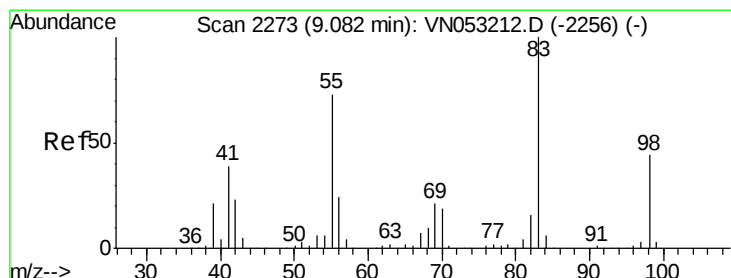
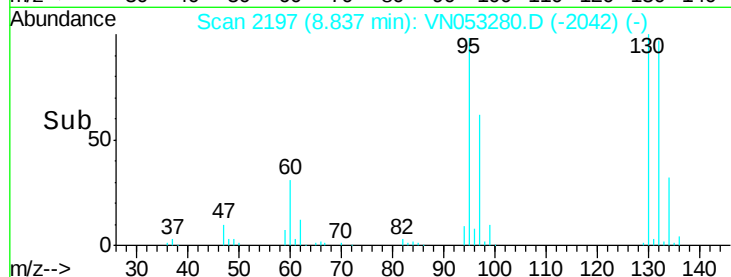
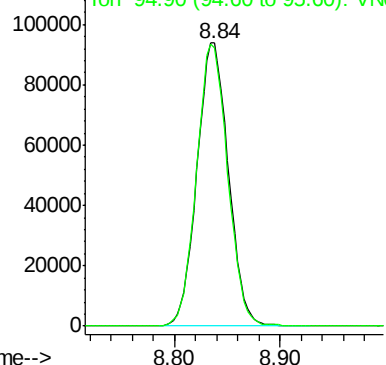
#37  
 Trichloroethene  
 Concen: 20.016 ug/l  
 RT: 8.84 min Scan# 2197  
 Delta R.T. -0.00 min  
 Lab File: VN053280.D  
 Acq: 4 Jan 2019 10:50

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0104WBSD01

Tot Ion:130 Resp: 193376  
 Ion Ratio Lower Upper  
 130 100  
 95 98.2 81.0 121.4

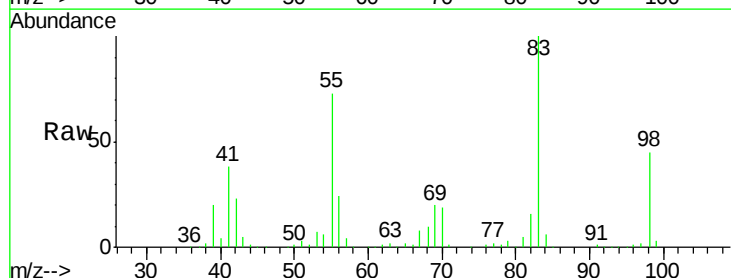


Abundance Ion 129.90 (129.60 to 130.60): V  
 Ion 94.90 (94.60 to 95.60): VN

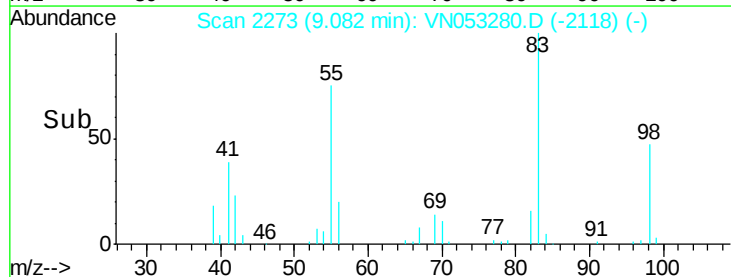
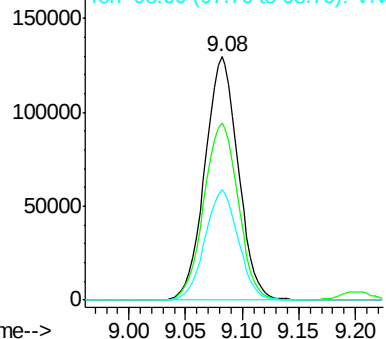


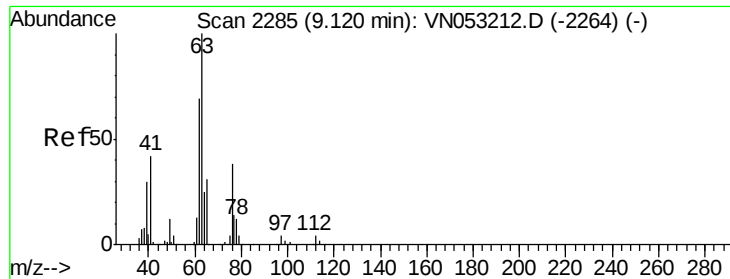
#38  
 Methylcyclohexane  
 Concen: 19.137 ug/l  
 RT: 9.08 min Scan# 2273  
 Delta R.T. -0.00 min  
 Lab File: VN053280.D  
 Acq: 4 Jan 2019 10:50

Tgt Ion: 83 Resp: 265624  
 Ion Ratio Lower Upper  
 83 100  
 55 74.7 39.8 119.4  
 98 45.4 22.9 68.5



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

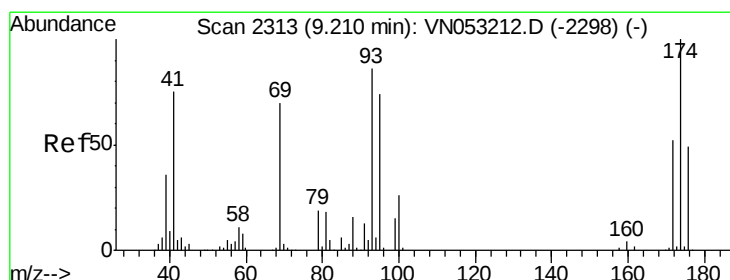
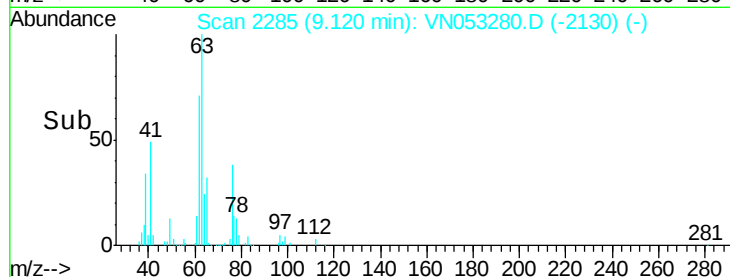
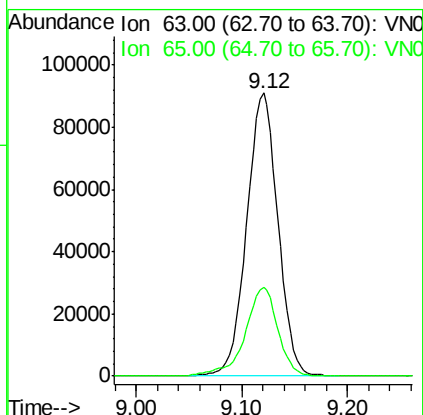
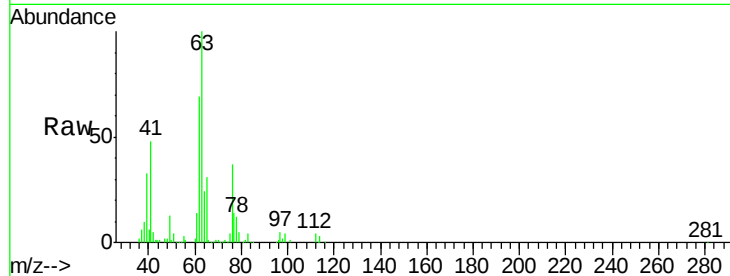




#39  
 1,2-Dichloropropane  
 Concen: 20.188 ug/l  
 RT: 9.12 min Scan# 2285  
 Delta R.T. -0.00 min  
 Lab File: VN053280.D  
 Acq: 4 Jan 2019 10:50

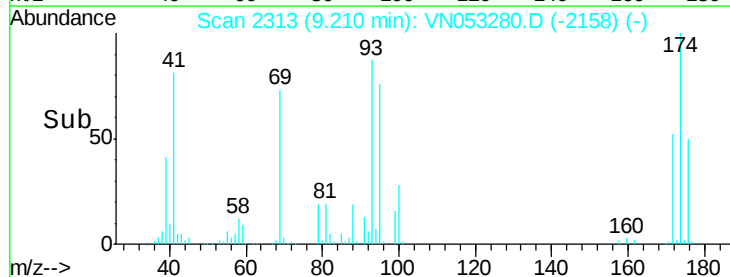
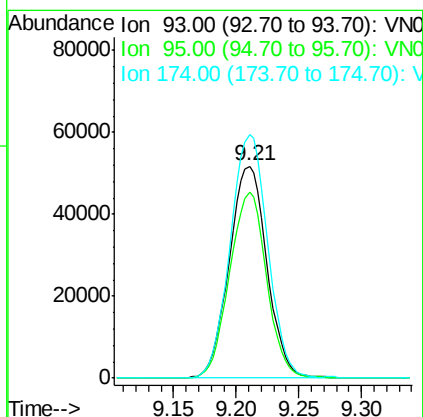
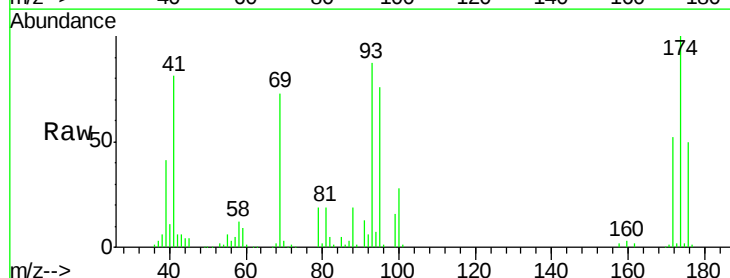
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0104WBSD01

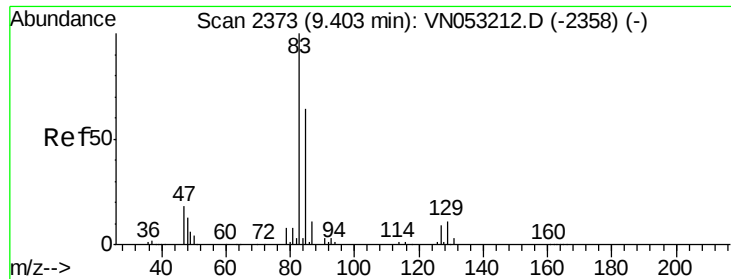
Tot Ion: 63 Resp: 188001  
 Ion Ratio Lower Upper  
 63 100  
 65 31.2 23.6 35.4



#40  
 Dibromomethane  
 Concen: 20.582 ug/l  
 RT: 9.21 min Scan# 2313  
 Delta R.T. -0.00 min  
 Lab File: VN053280.D  
 Acq: 4 Jan 2019 10:50

Tgt Ion: 93 Resp: 108400  
 Ion Ratio Lower Upper  
 93 100  
 95 86.0 0.0 168.4  
 174 114.4 0.0 210.0





#41

Bromodichloromethane

Concen: 19.931 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

Instrument :

MSVOA\_N

ClientSampleId :

VN0104WBSD01

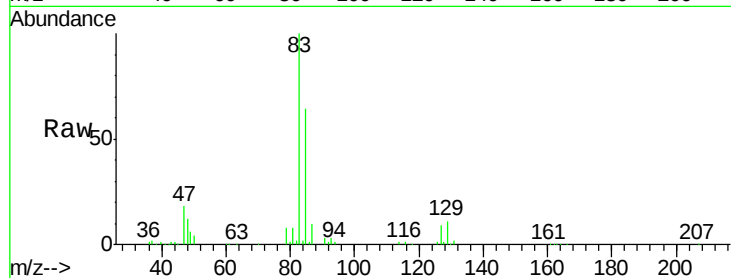
Tot Ion: 83 Resp: 225429

Ion Ratio Lower Upper

83 100

85 64.5 52.4 78.6

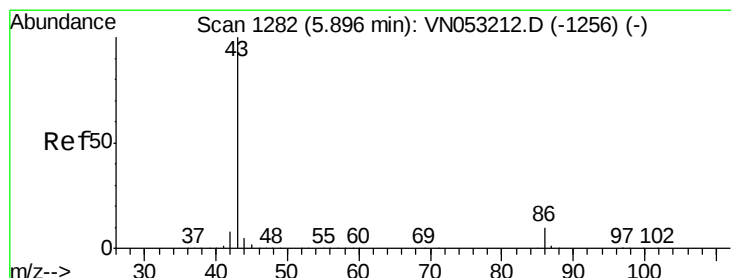
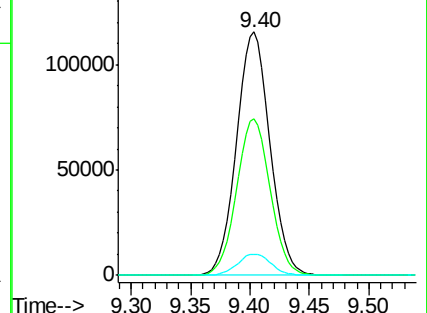
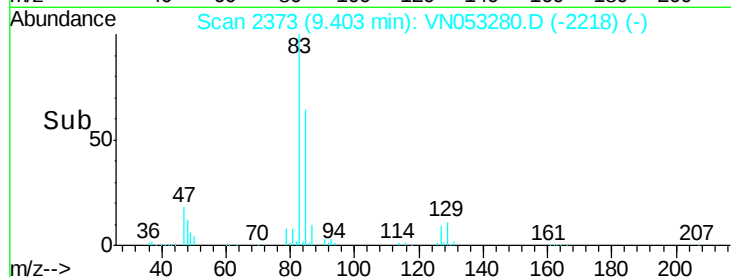
127 8.8 6.6 9.8



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0

Ion 127.00 (126.70 to 127.70): VN0



#42

Vinyl Acetate

Concen: 103.048 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VN053280.D

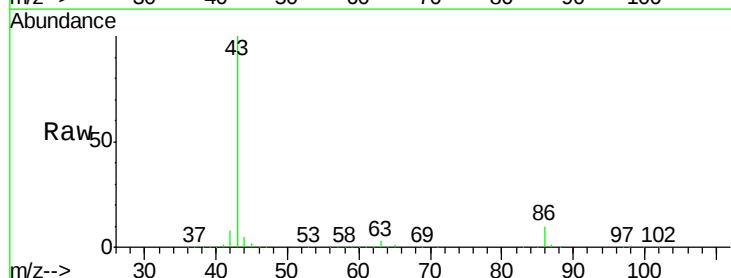
Acq: 4 Jan 2019 10:50

Tgt Ion: 43 Resp: 1664430

Ion Ratio Lower Upper

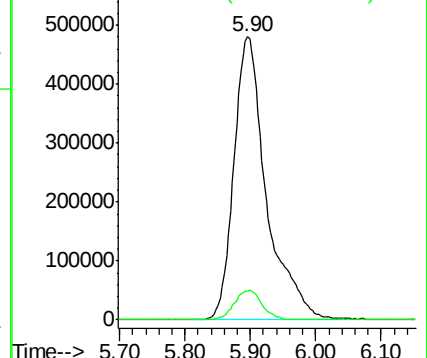
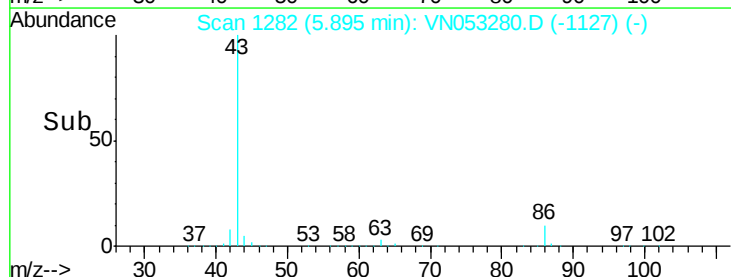
43 100

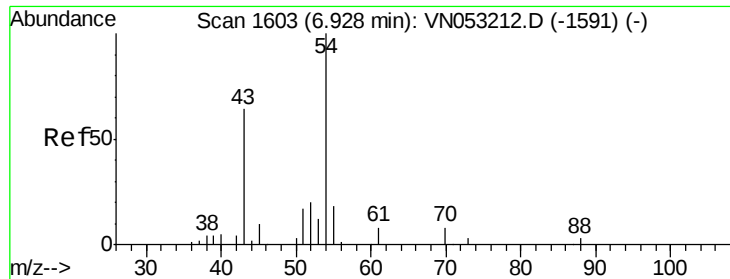
86 9.0 6.5 9.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

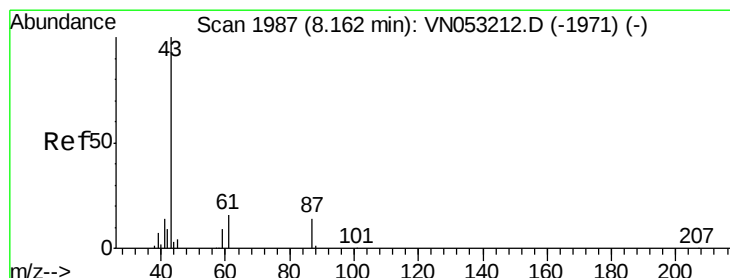
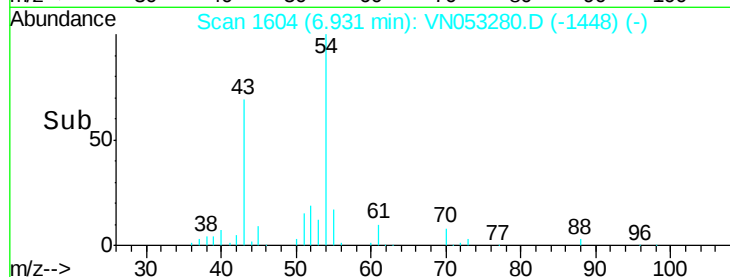
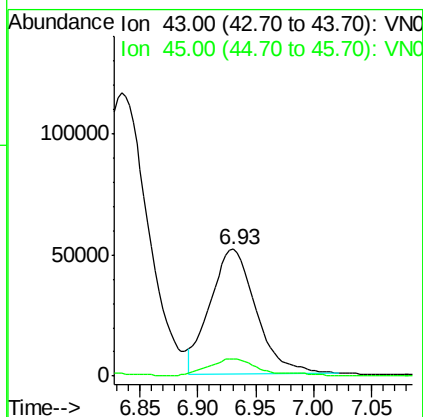
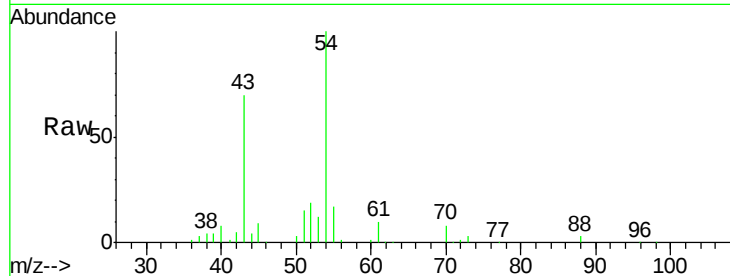




#43  
Ethyl Acetate  
Concen: 21.482 ug/l  
RT: 6.93 min Scan# 1604  
Delta R.T. 0.00 min  
Lab File: VN053280.D  
Acq: 4 Jan 2019 10:50

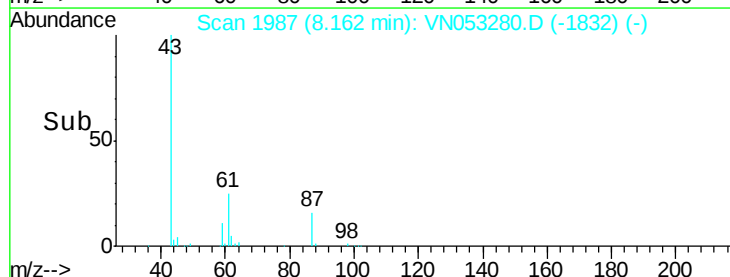
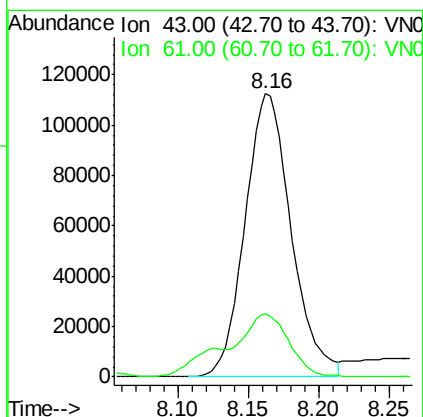
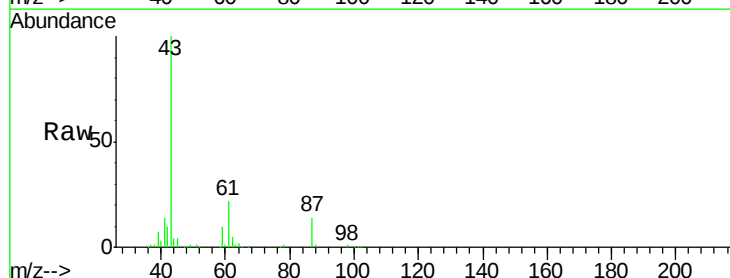
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0104WBSD01

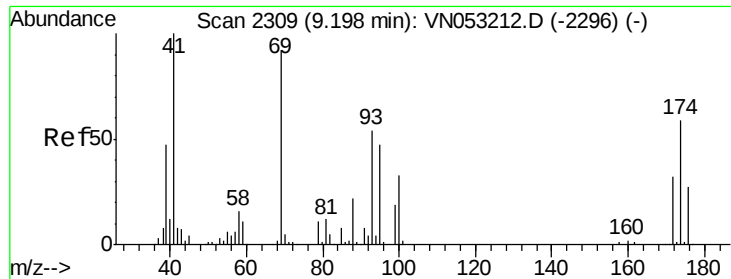
Tot Ion: 43 Resp: 142030  
Ion Ratio Lower Upper  
43 100  
45 13.8 1.0 1.6#



#44  
Isopropyl Acetate  
Concen: 20.773 ug/l  
RT: 8.16 min Scan# 1987  
Delta R.T. -0.00 min  
Lab File: VN053280.D  
Acq: 4 Jan 2019 10:50

Tgt Ion: 43 Resp: 255840  
Ion Ratio Lower Upper  
43 100  
61 22.2 16.0 24.0





#45

1,4-Dioxane

Concen: 406.128 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

Instrument :

MSVOA\_N

ClientSampleId :

VN0104WBSD01

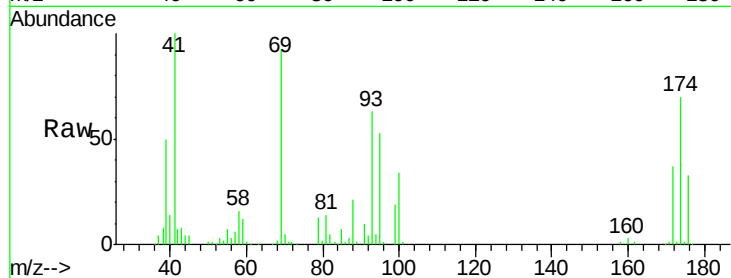
Tot Ion: 88 Resp: 30587

Ion Ratio Lower Upper

88 100

43 32.3 29.5 44.3

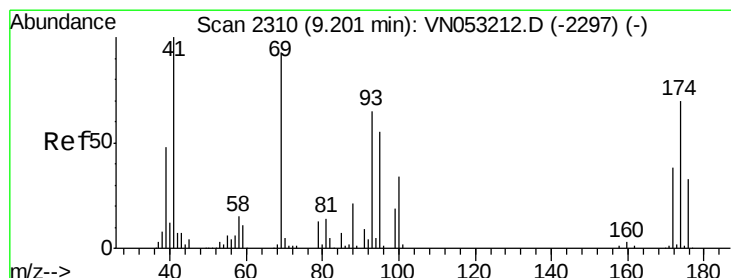
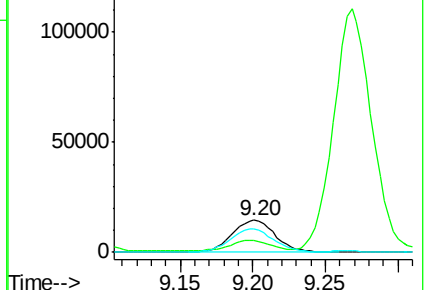
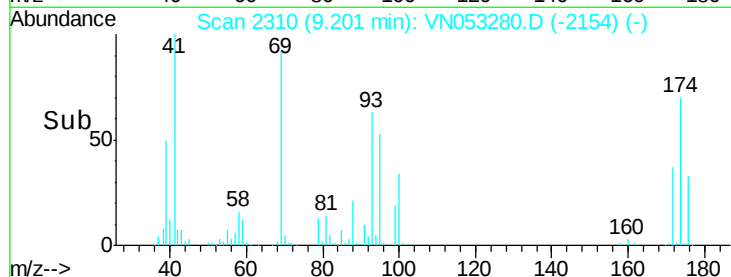
58 73.4 61.5 92.3



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#46

Methyl methacrylate

Concen: 20.679 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

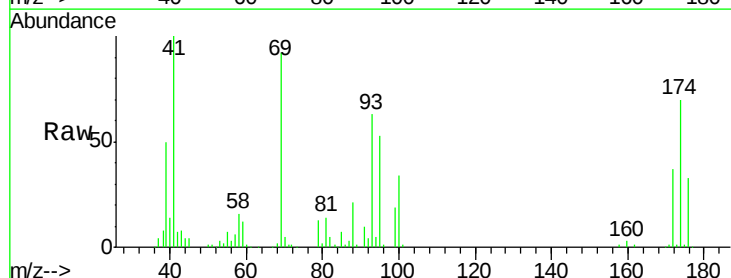
Tgt Ion: 41 Resp: 128664

Ion Ratio Lower Upper

41 100

69 93.8 42.5 127.6

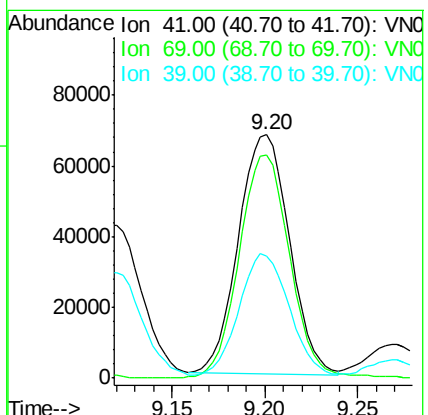
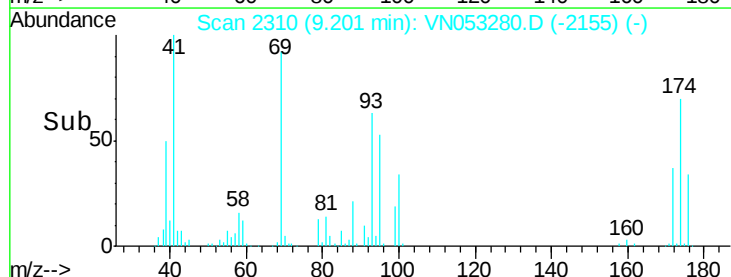
39 50.1 26.3 78.9

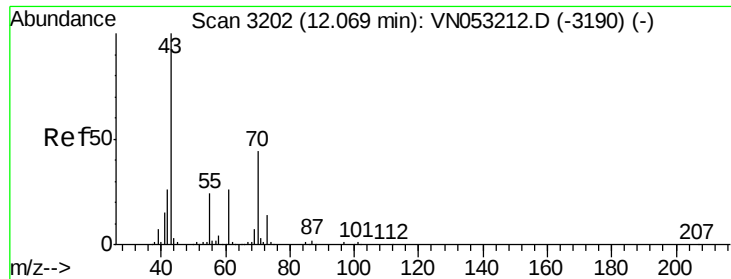


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#47

n-amyl Acetate

Concen: 19.822 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

Instrument :

MSVOA\_N

ClientSampleId :

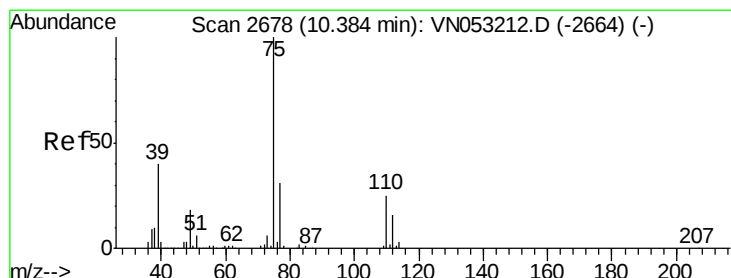
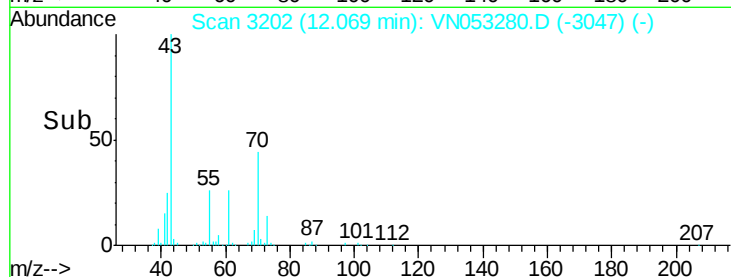
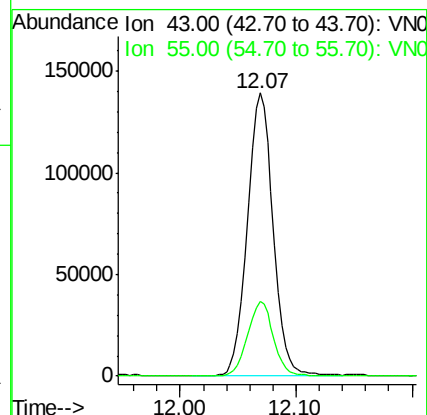
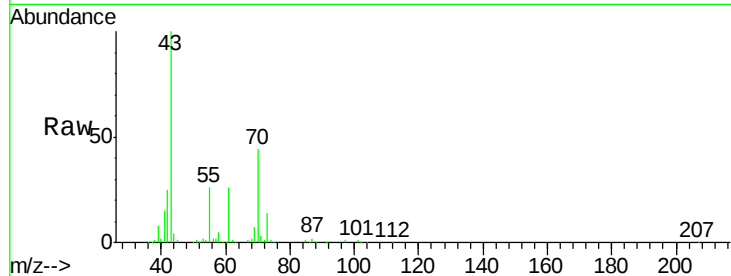
VN0104WBSD01

Tot Ion: 43 Resp: 214399

Ion Ratio Lower Upper

43 100

55 26.6 21.1 31.7



#48

t-1,3-Dichloropropene

Concen: 19.384 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN053280.D

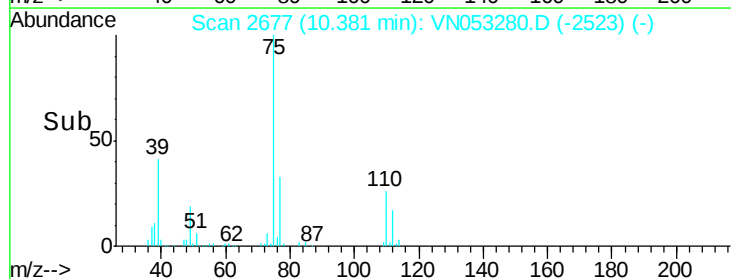
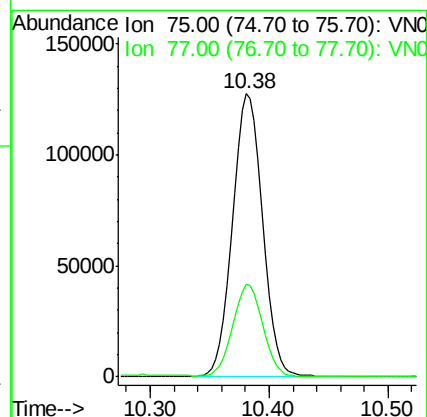
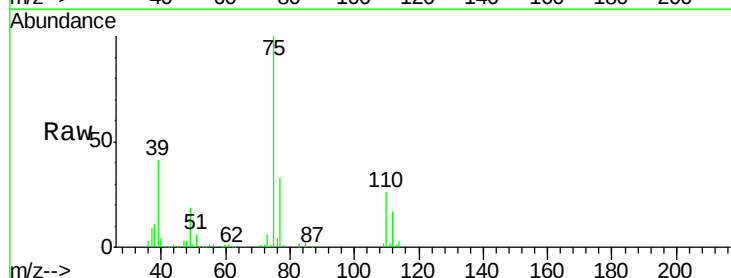
Acq: 4 Jan 2019 10:50

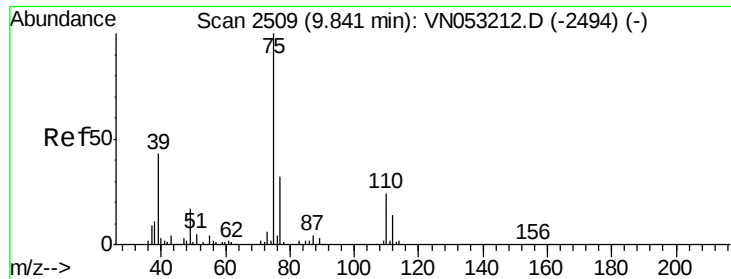
Tgt Ion: 75 Resp: 223769

Ion Ratio Lower Upper

75 100

77 32.4 25.6 38.4

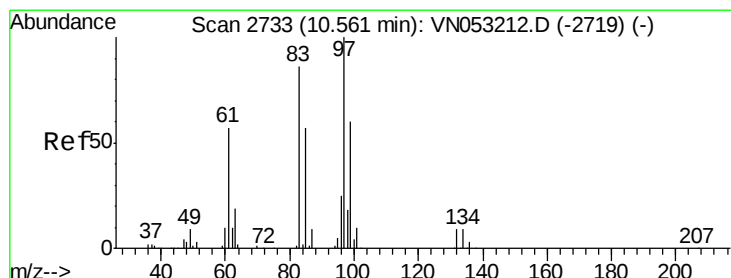
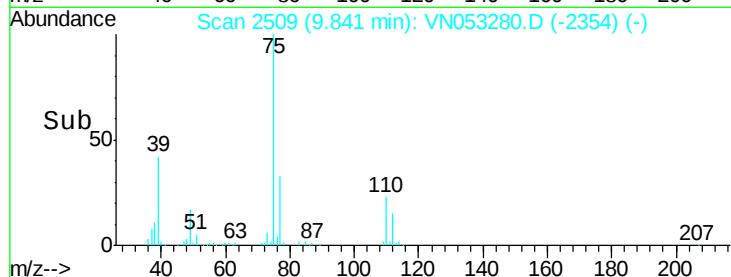
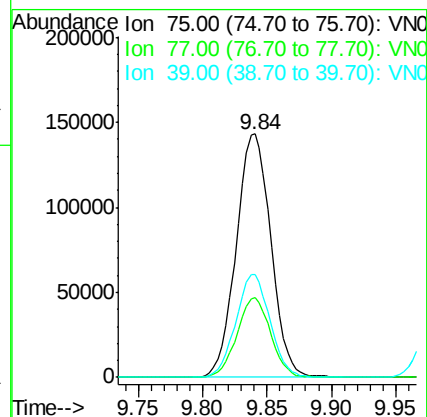
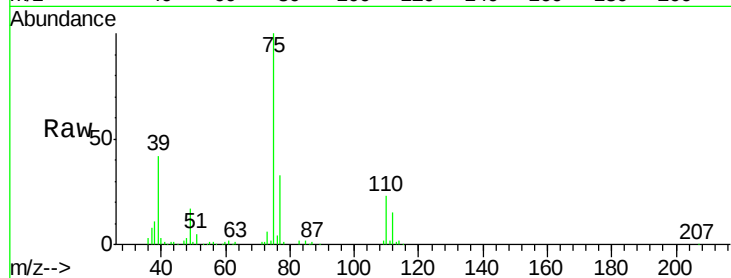




#49  
 cis-1,3-Dichloropropene  
 Concen: 19.702 ug/l  
 RT: 9.84 min Scan# 2509  
 Delta R.T. -0.00 min  
 Lab File: VN053280.D  
 Acq: 4 Jan 2019 10:50

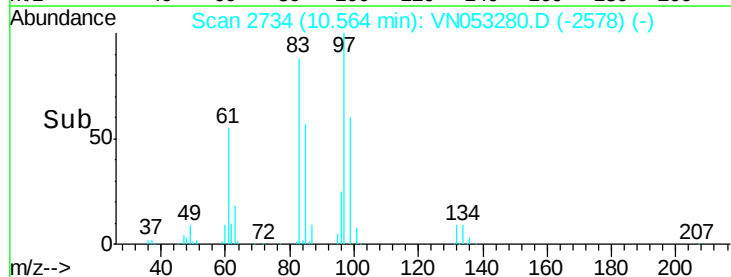
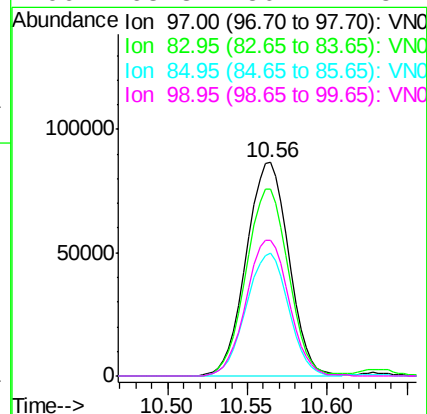
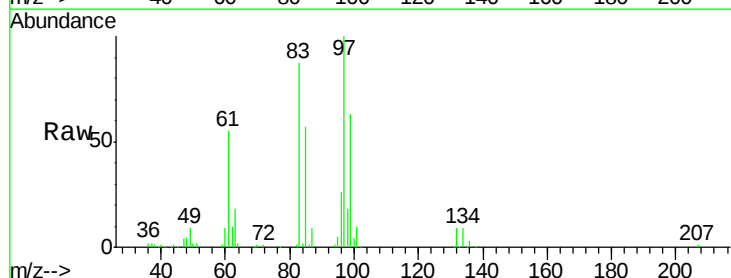
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0104WBSD01

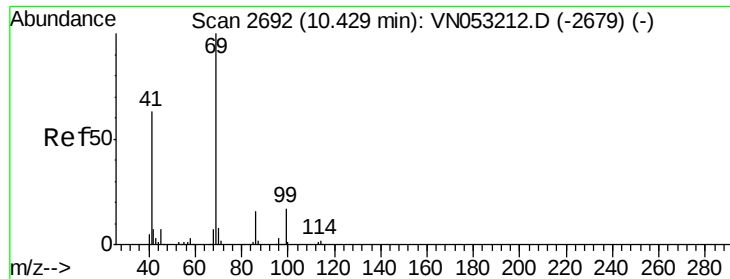
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 32.6  | 25.4  | 38.0  |
| 39      | 42.2  | 37.3  | 55.9  |



#50  
 1,1,2-Trichloroethane  
 Concen: 20.895 ug/l  
 RT: 10.56 min Scan# 2734  
 Delta R.T. 0.00 min  
 Lab File: VN053280.D  
 Acq: 4 Jan 2019 10:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 87.4  | 70.4  | 105.6 |
| 85      | 57.4  | 45.0  | 67.6  |
| 99      | 63.3  | 50.2  | 75.2  |





#51

Ethyl methacrylate

Concen: 20.438 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

Instrument :

MSVOA\_N

ClientSampled :

VN0104WBSD01

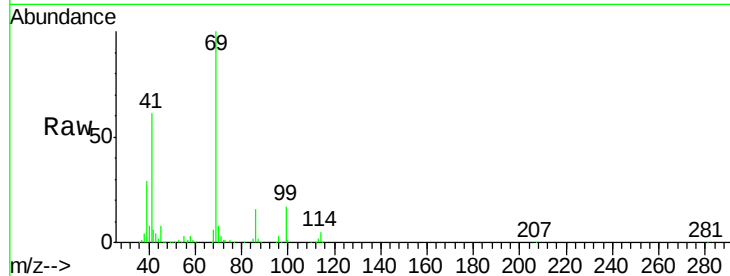
Tot Ion: 69 Resp: 201141

Ion Ratio Lower Upper

69 100

41 60.6 34.4 103.3

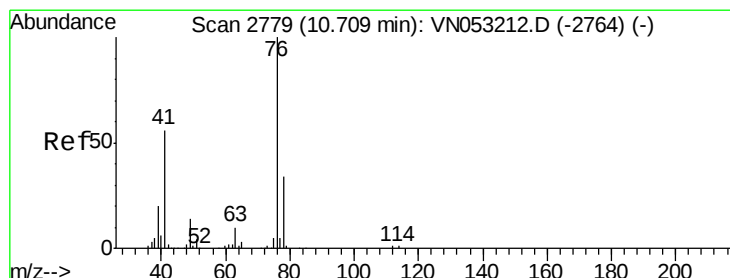
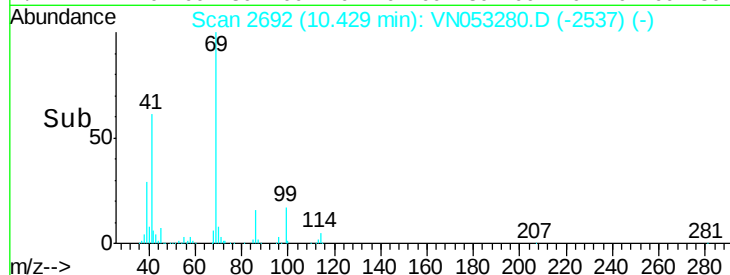
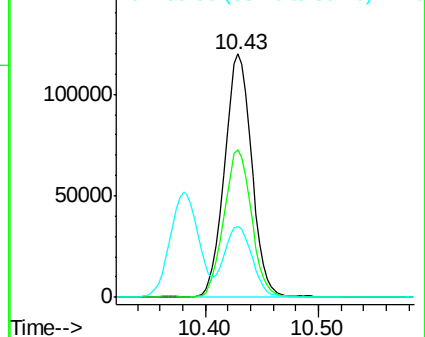
39 29.0 16.4 49.2



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#52

1,3-Dichloropropane

Concen: 20.484 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. -0.00 min

Lab File: VN053280.D

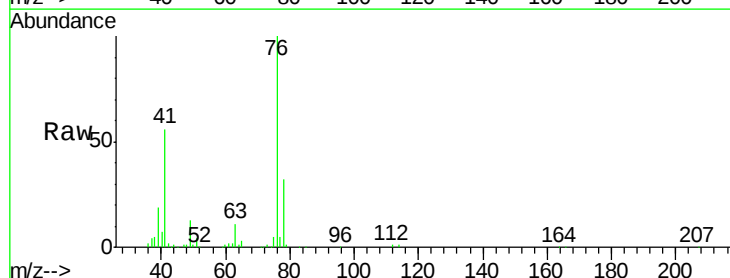
Acq: 4 Jan 2019 10:50

Tgt Ion: 76 Resp: 266458

Ion Ratio Lower Upper

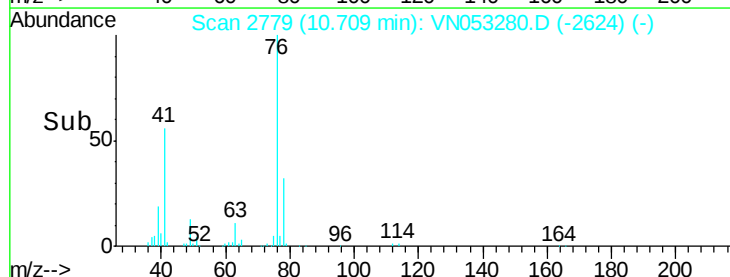
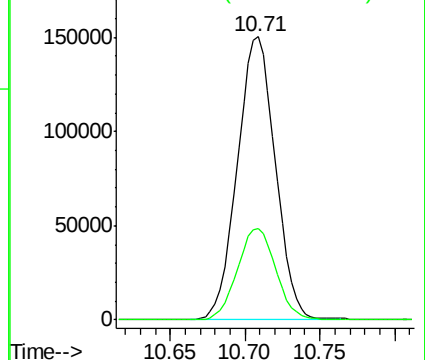
76 100

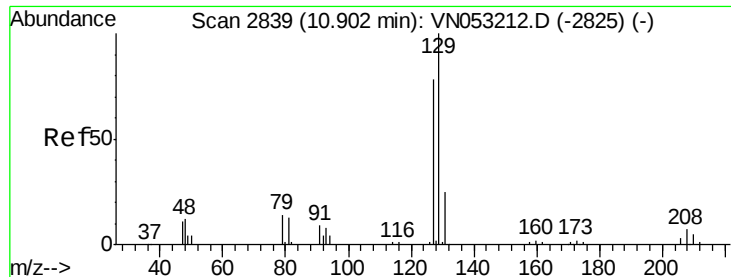
78 32.6 0.0 64.8



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





#53

Dibromochloromethane

Concen: 20.077 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

Instrument :

MSVOA\_N

ClientSampleId :

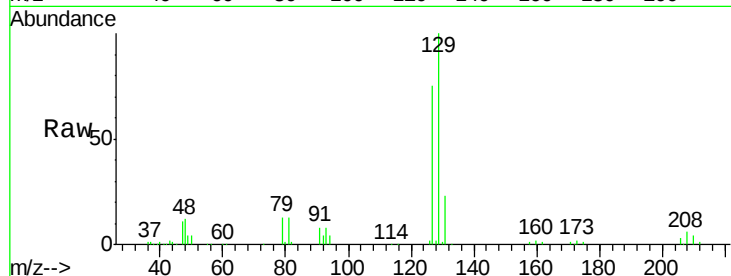
VN0104WBSD01

Tot Ion:129 Resp: 170274

Ion Ratio Lower Upper

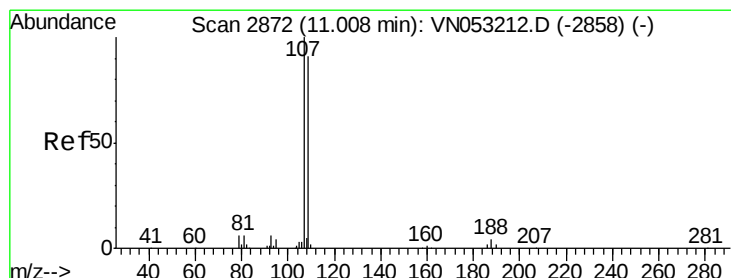
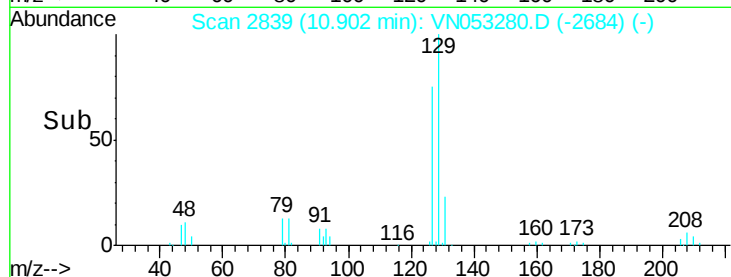
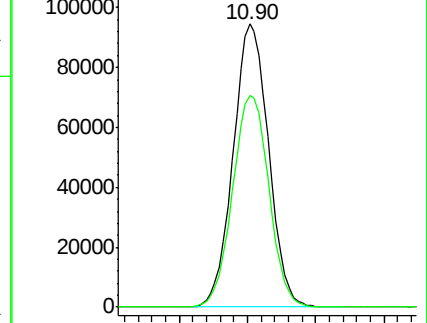
129 100

127 76.6 37.6 112.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 20.079 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. -0.00 min

Lab File: VN053280.D

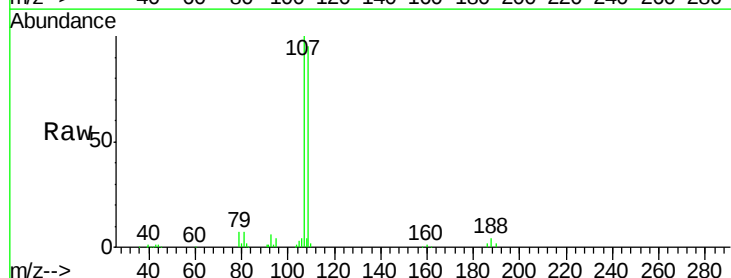
Acq: 4 Jan 2019 10:50

Tgt Ion:107 Resp: 152957

Ion Ratio Lower Upper

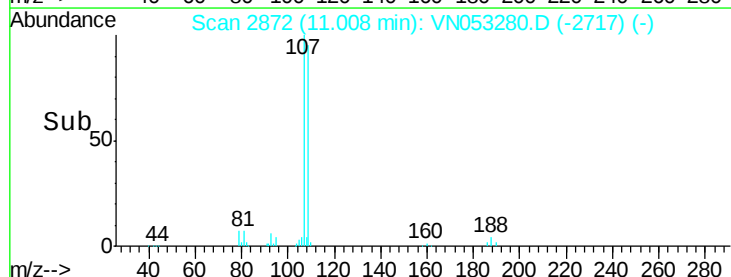
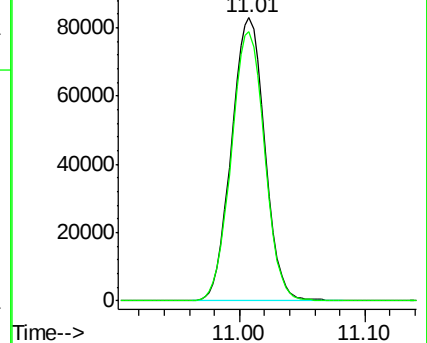
107 100

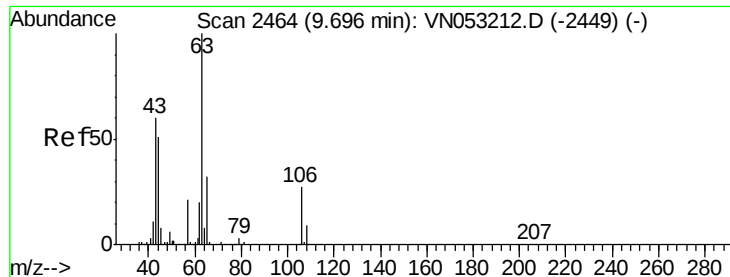
109 95.2 77.1 115.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#55

2-Chloroethyl vinyl ether

Concen: 102.298 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

Instrument :

MSVOA\_N

ClientSampleId :

VN0104WBSD01

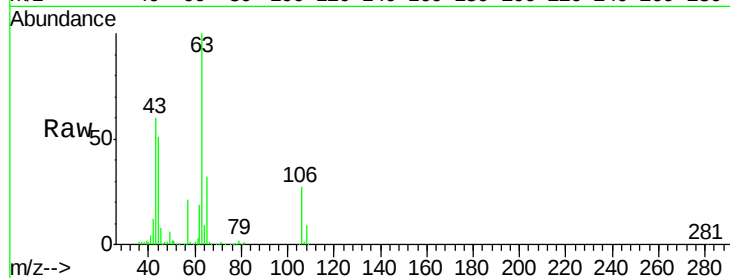
Tot Ion: 63 Resp: 577786

Ion Ratio Lower Upper

63 100

65 32.1 25.4 38.2

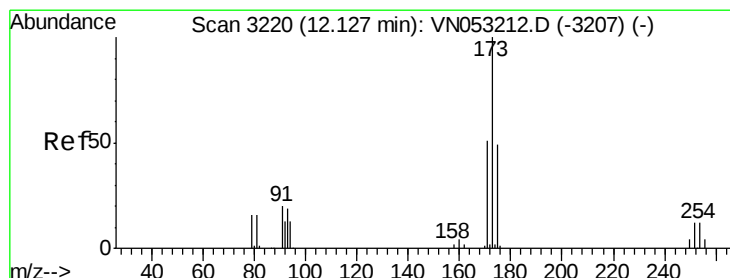
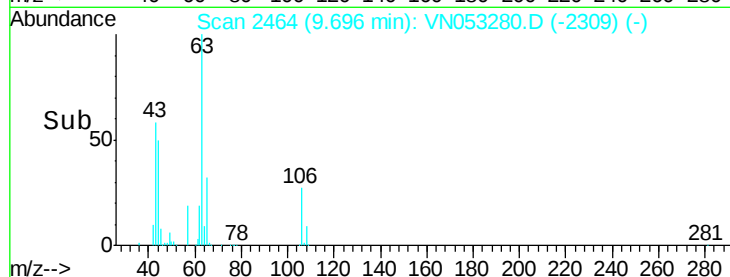
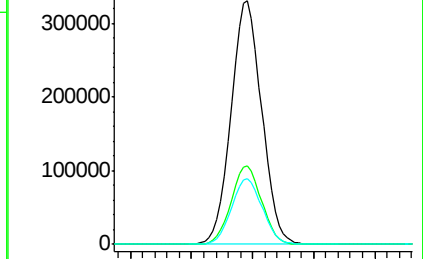
106 27.1 20.4 30.6



Abundance Ion 63.00 (62.70 to 63.70): VN053280.D (-2309) (-)

Ion 65.00 (64.70 to 65.70): VN053280.D (-2309) (-)

Ion 106.00 (105.70 to 106.70): VN053280.D (-2309) (-)



#56

Bromoform

Concen: 20.044 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

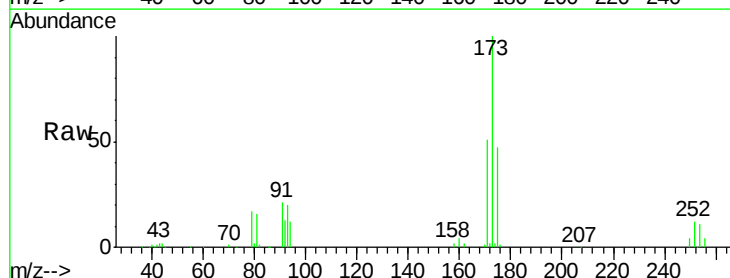
Tgt Ion: 173 Resp: 116293

Ion Ratio Lower Upper

173 100

175 47.2 38.7 58.1

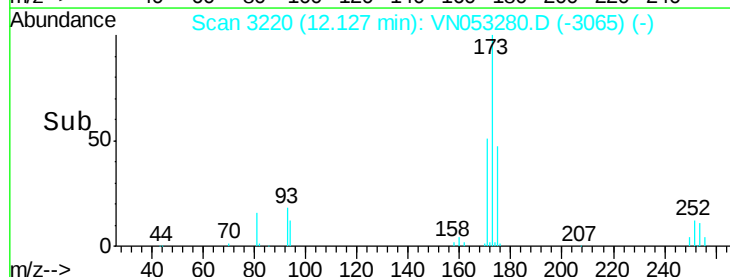
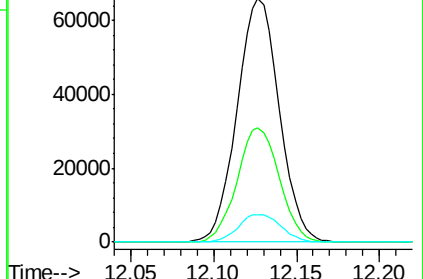
254 11.6 8.4 12.6

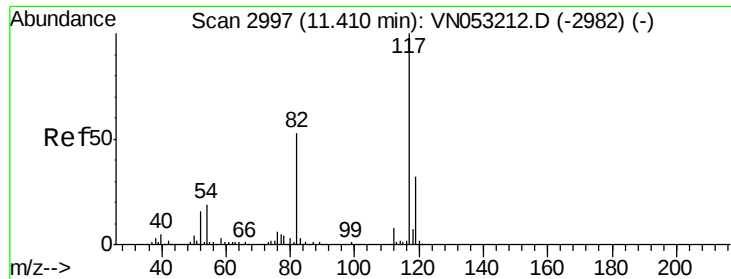


Abundance Ion 173.00 (172.70 to 173.70): VN053280.D (-3065) (-)

Ion 175.00 (174.70 to 175.70): VN053280.D (-3065) (-)

Ion 254.00 (253.70 to 254.70): VN053280.D (-3065) (-)

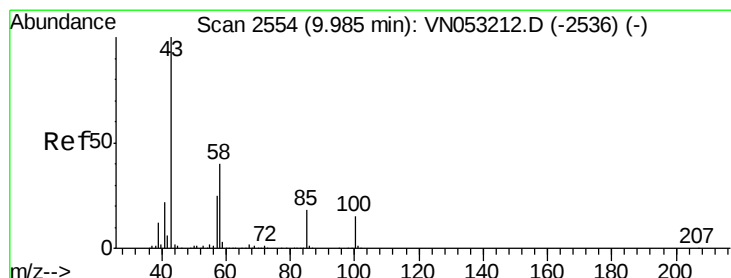
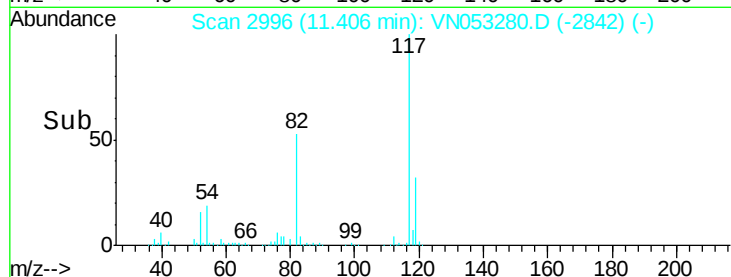
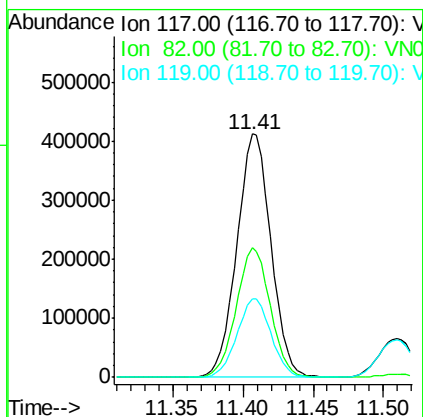
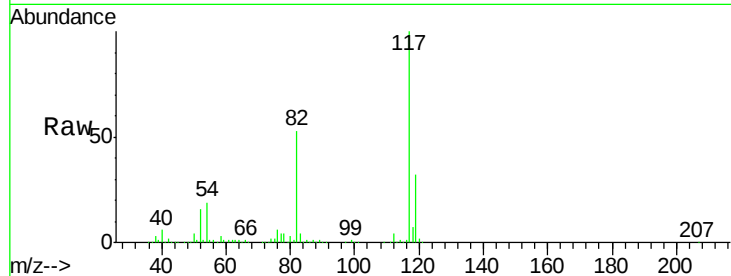




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN053280.D  
Acq: 4 Jan 2019 10:50

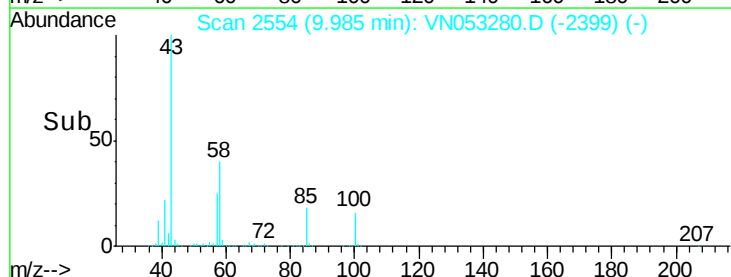
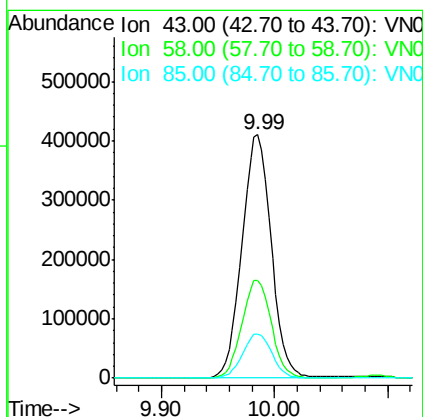
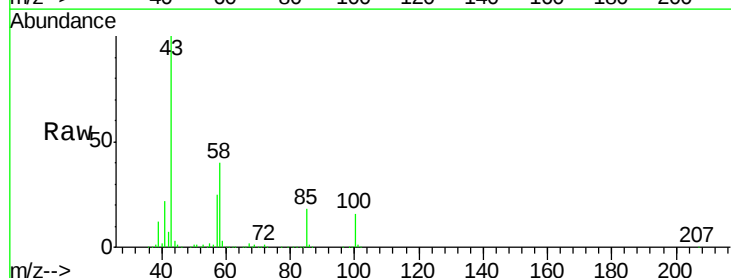
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0104WBSD01

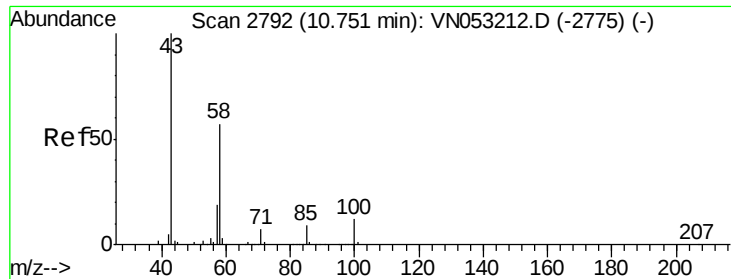
Tot Ion:117 Resp: 698640  
Ion Ratio Lower Upper  
117 100  
82 53.0 44.2 66.2  
119 32.3 25.4 38.2



#58  
4-Methyl-2-Pentanone  
Concen: 111.285 ug/l  
RT: 9.99 min Scan# 2554  
Delta R.T. -0.00 min  
Lab File: VN053280.D  
Acq: 4 Jan 2019 10:50

Tgt Ion: 43 Resp: 740857  
Ion Ratio Lower Upper  
43 100  
58 40.4 31.6 47.4  
85 18.3 13.3 19.9

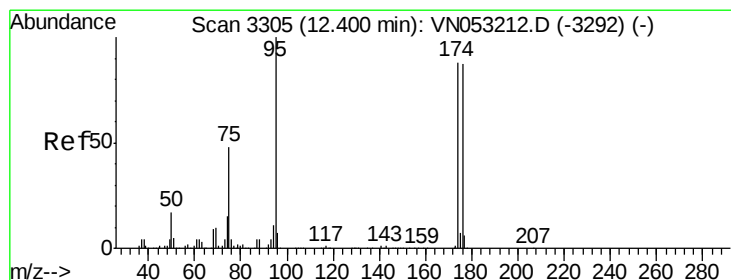
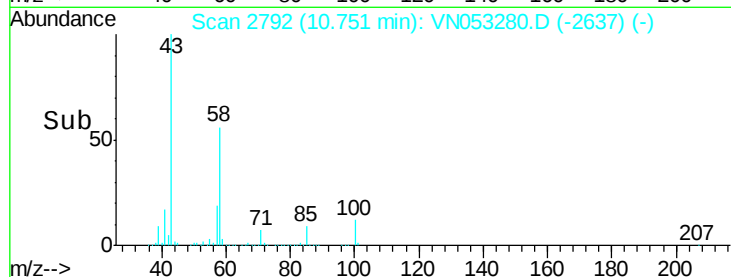
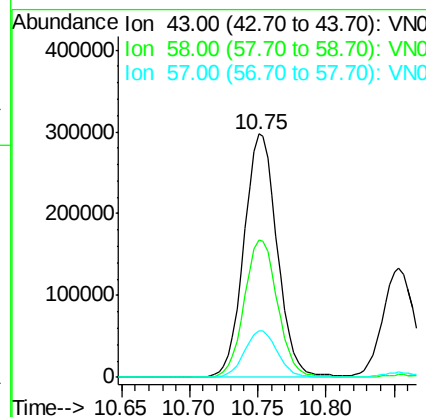
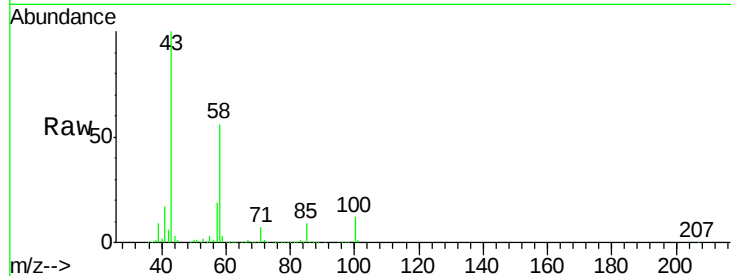




#59  
2-Hexanone  
Concen: 109.076 ug/l  
RT: 10.75 min Scan# 2792  
Delta R.T. -0.00 min  
Lab File: VN053280.D  
Acq: 4 Jan 2019 10:50

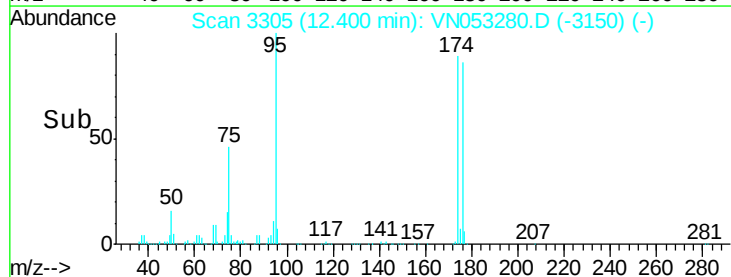
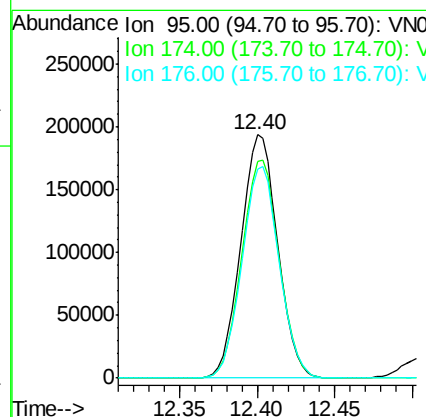
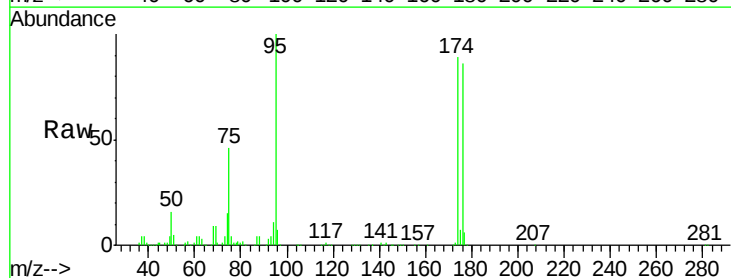
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0104WBSD01

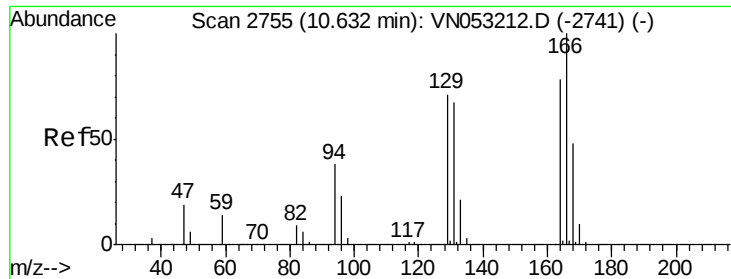
Tot Ion: 43 Resp: 501312  
Ion Ratio Lower Upper  
43 100  
58 56.8 43.2 64.8  
57 19.2 14.9 22.3



#60  
4-Bromofluorobenzene  
Concen: 109.076 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. -0.00 min  
Lab File: VN053280.D  
Acq: 4 Jan 2019 10:50

Tgt Ion: 95 Resp: 320963  
Ion Ratio Lower Upper  
95 100  
174 90.6 67.9 101.9  
176 87.6 66.4 99.6

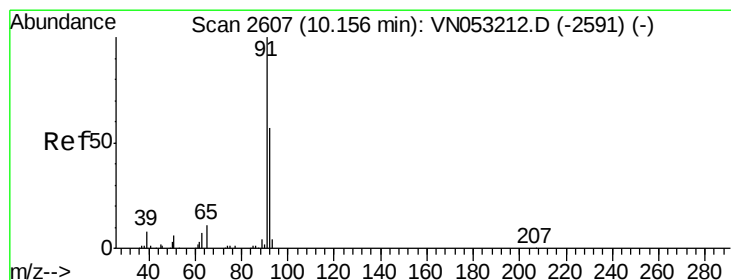
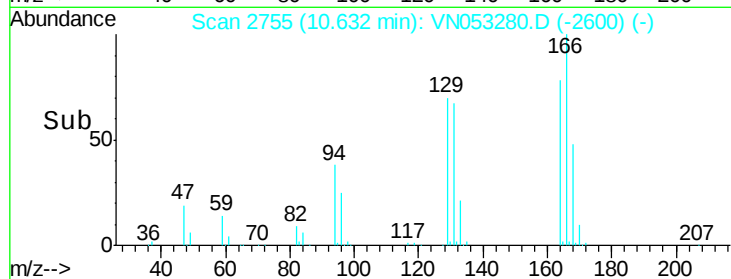
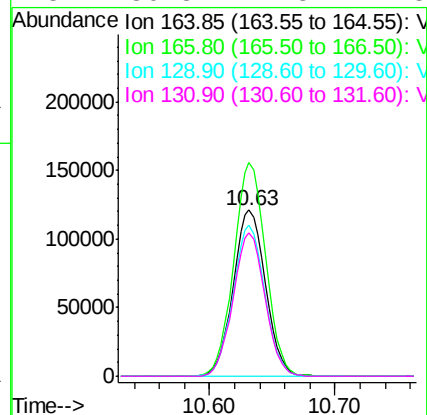
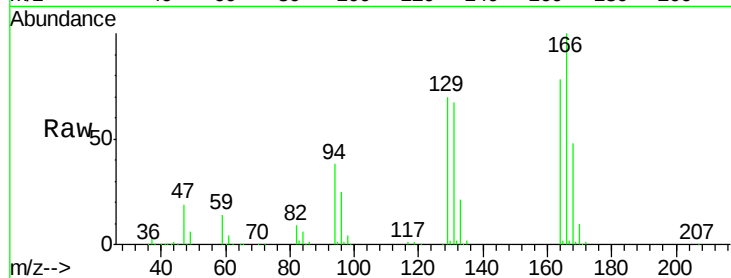




#61  
Tetrachloroethene  
Concen: 20.905 ug/l  
RT: 10.63 min Scan# 2755  
Delta R.T. -0.00 min  
Lab File: VN053280.D  
Acq: 4 Jan 2019 10:50

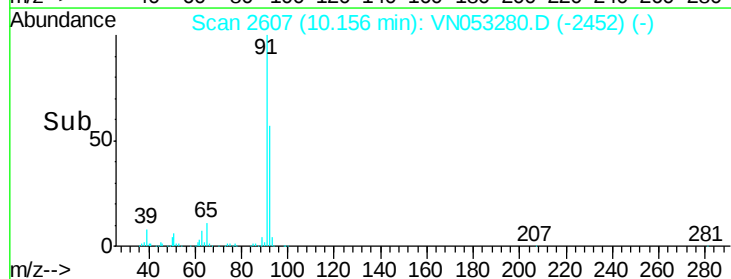
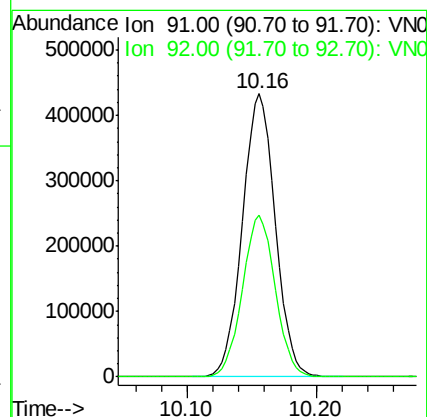
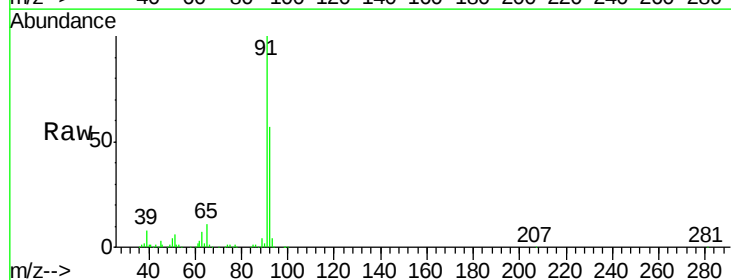
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0104WBSD01

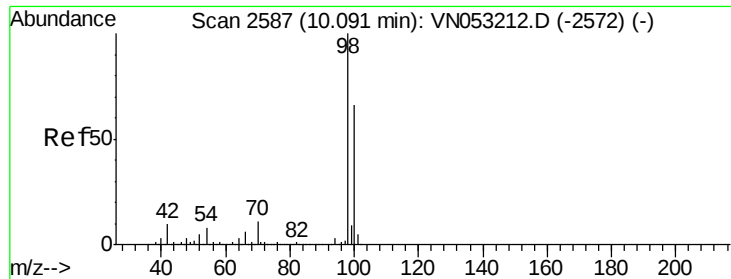
Tot Ion:164 Resp: 215833  
Ion Ratio Lower Upper  
164 100  
166 128.4 104.6 157.0  
129 90.5 75.3 112.9  
131 86.3 74.3 111.5



#62  
Toluene  
Concen: 20.031 ug/l  
RT: 10.16 min Scan# 2607  
Delta R.T. -0.00 min  
Lab File: VN053280.D  
Acq: 4 Jan 2019 10:50

Tgt Ion: 91 Resp: 767510  
Ion Ratio Lower Upper  
91 100  
92 57.0 45.4 68.2





#63

Toluene-d8

Concen: 20.031 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

Instrument :

MSVOA\_N

ClientSampleId :

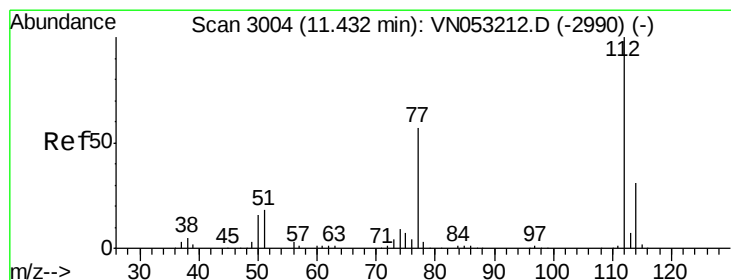
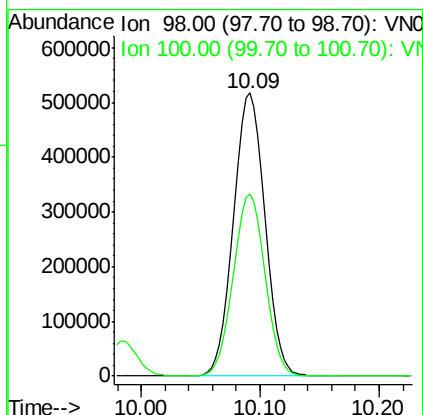
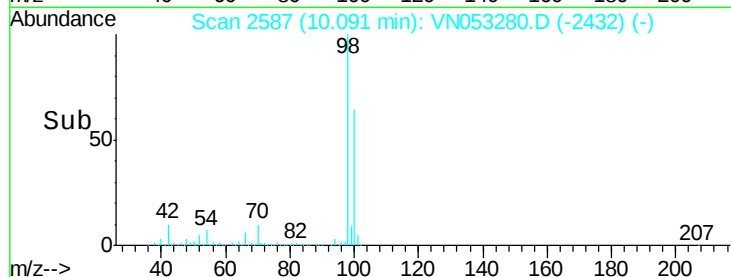
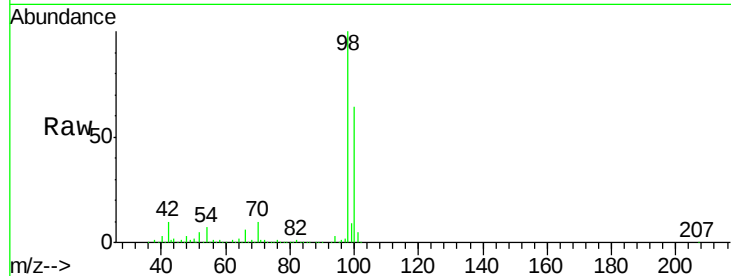
VN0104WBSD01

Tot Ion: 98 Resp: 952554

Ion Ratio Lower Upper

98 100

100 64.6 51.1 76.7



#64

Chlorobenzene

Concen: 19.866 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN053280.D

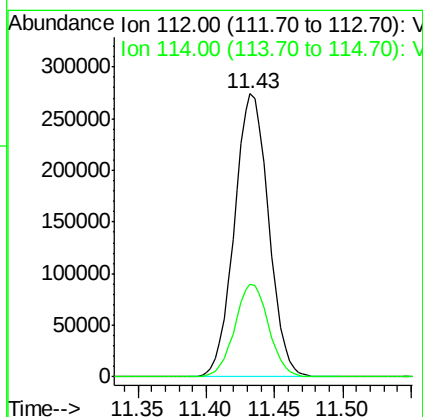
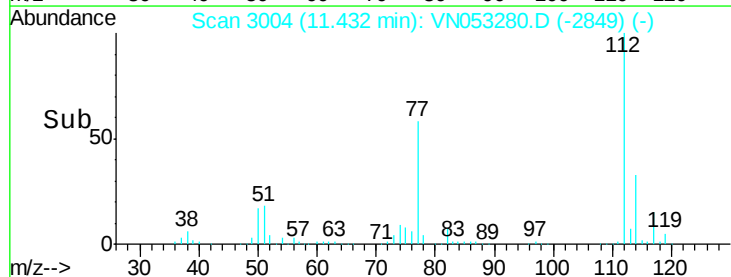
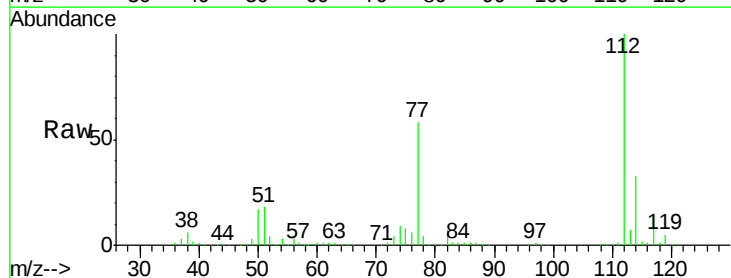
Acq: 4 Jan 2019 10:50

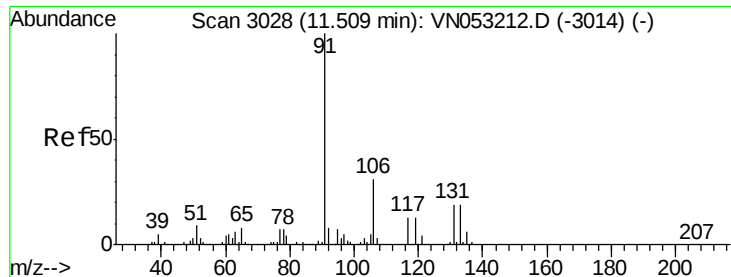
Tgt Ion: 112 Resp: 477663

Ion Ratio Lower Upper

112 100

114 32.9 25.6 38.4





#65

1,1,1,2-Tetrachloroethane

Concen: 19.933 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

Instrument :

MSVOA\_N

ClientSampled :

VN0104WBSD01

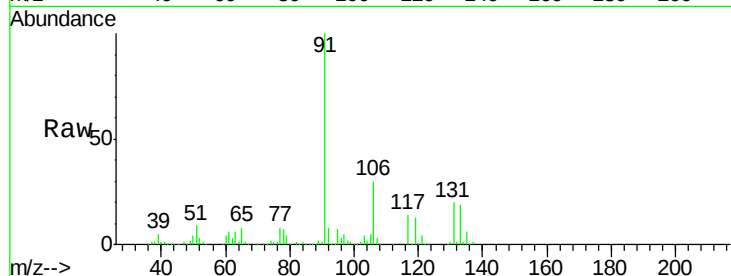
Tot Ion:131 Resp: 168122

Ion Ratio Lower Upper

131 100

133 96.5 0.0 193.4

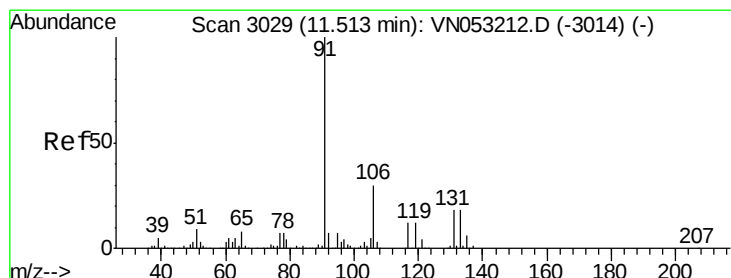
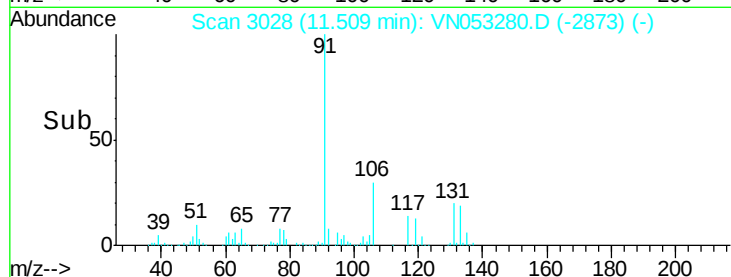
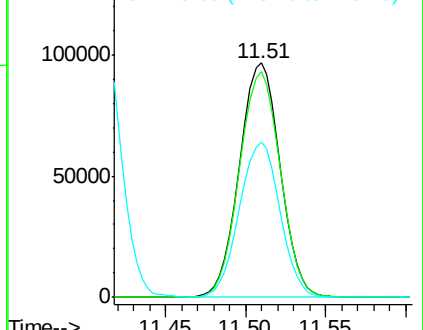
119 65.4 0.0 133.0



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#66

Ethyl Benzene

Concen: 19.694 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. -0.00 min

Lab File: VN053280.D

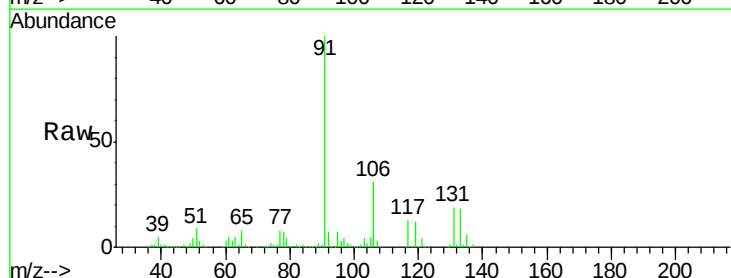
Acq: 4 Jan 2019 10:50

Tgt Ion: 91 Resp: 818311

Ion Ratio Lower Upper

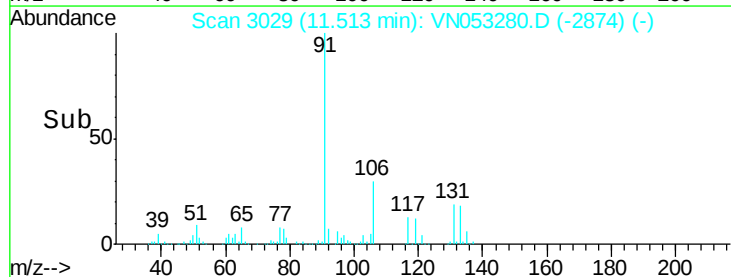
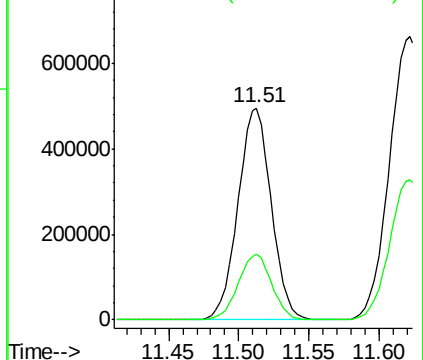
91 100

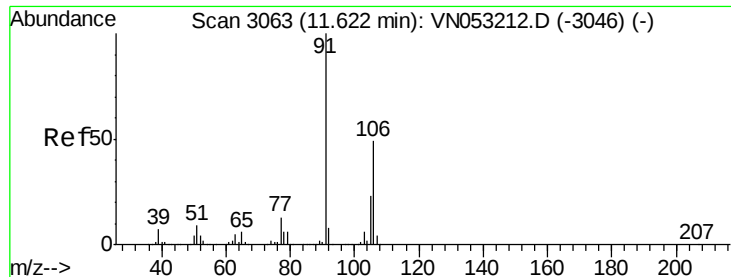
106 30.8 24.3 36.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V





#67

m/p-Xylenes

Concen: 40.153 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

Instrument :

MSVOA\_N

ClientSampleId :

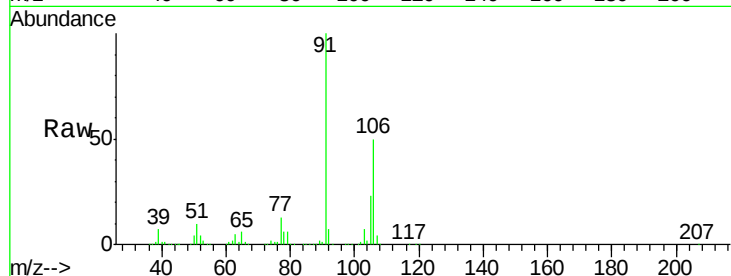
VN0104WBSD01

Tot Ion:106 Resp: 630989

Ion Ratio Lower Upper

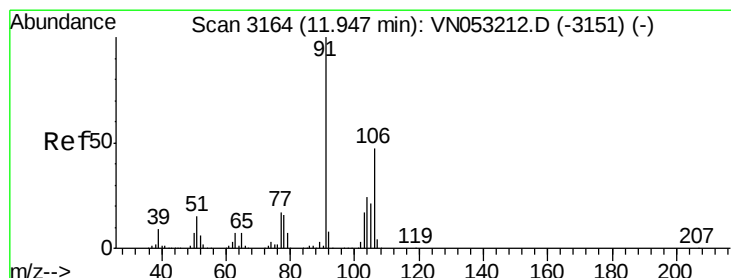
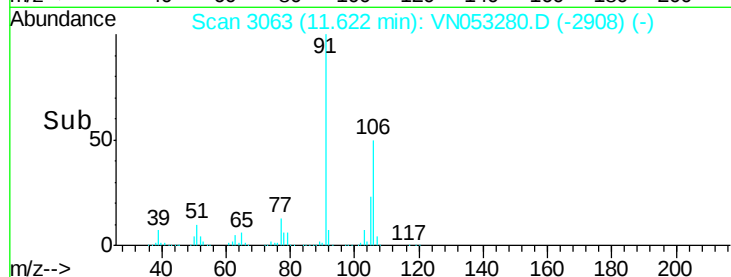
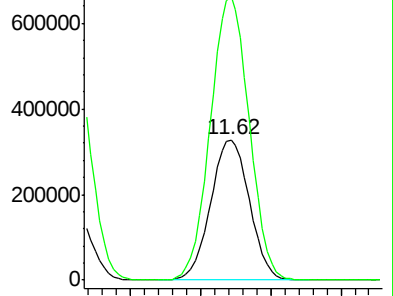
106 100

91 201.3 163.9 245.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#68

o-Xylene

Concen: 20.041 ug/l

RT: 11.95 min Scan# 3165

Delta R.T. 0.00 min

Lab File: VN053280.D

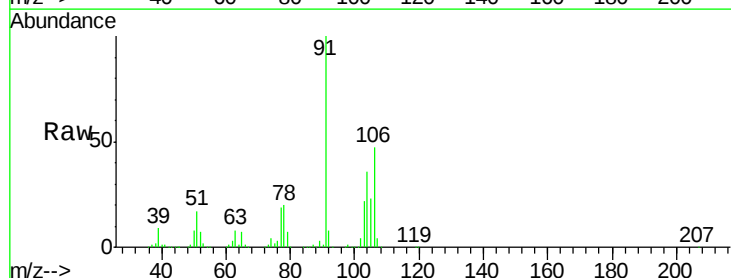
Acq: 4 Jan 2019 10:50

Tgt Ion:106 Resp: 305185

Ion Ratio Lower Upper

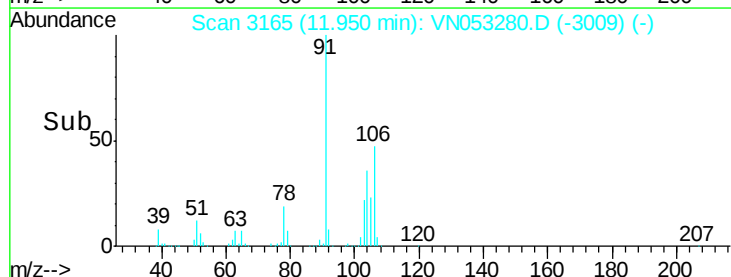
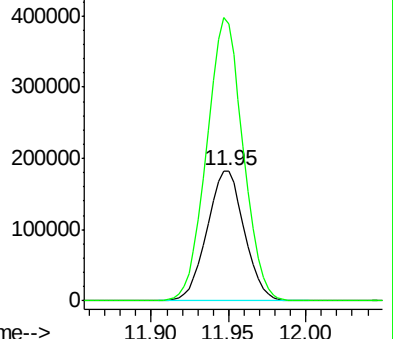
106 100

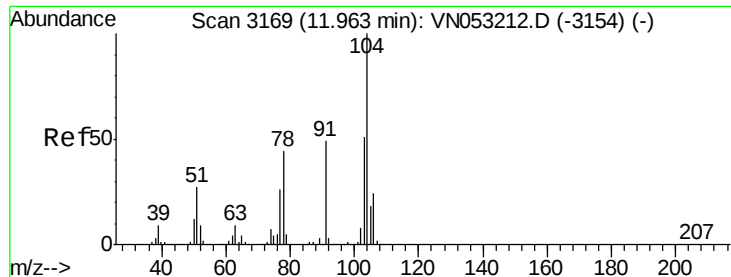
91 212.7 107.8 323.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0

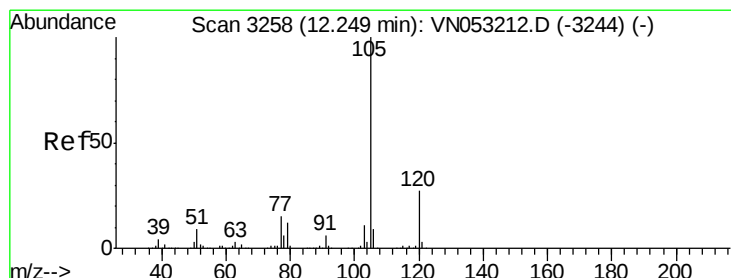
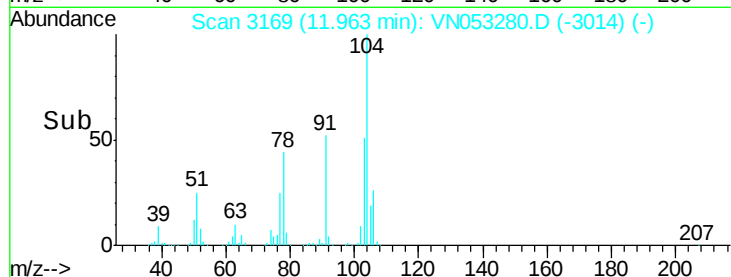
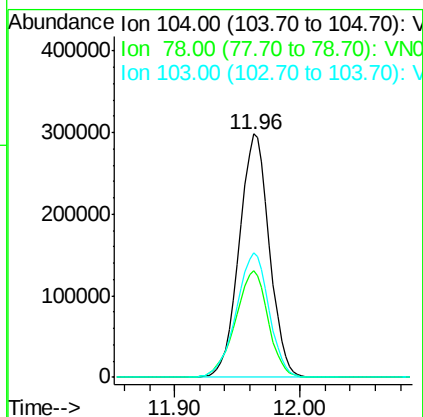
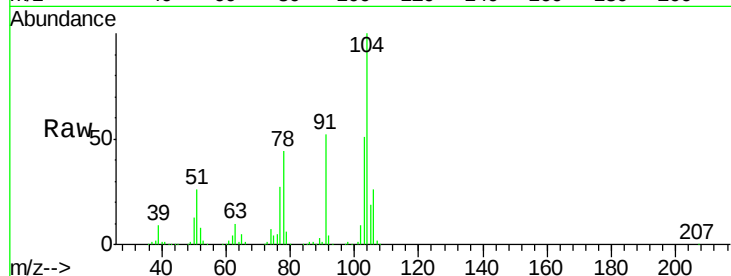




#69  
Stvrene  
Concen: 20.032 ug/l  
RT: 11.96 min Scan# 3169  
Delta R.T. -0.00 min  
Lab File: VN053280.D  
Acq: 4 Jan 2019 10:50

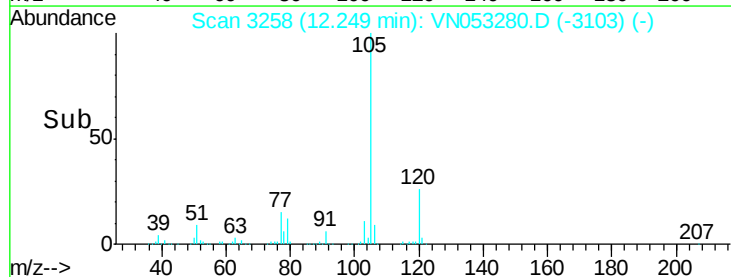
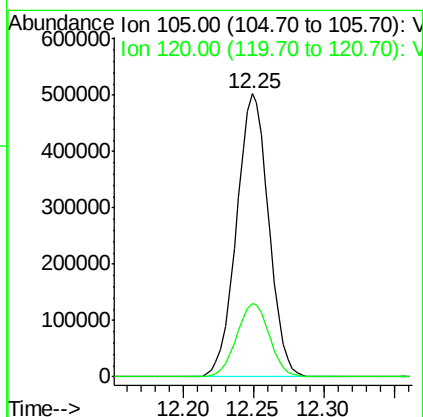
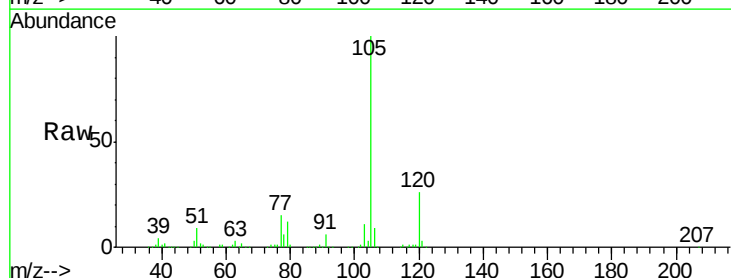
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0104WBSD01

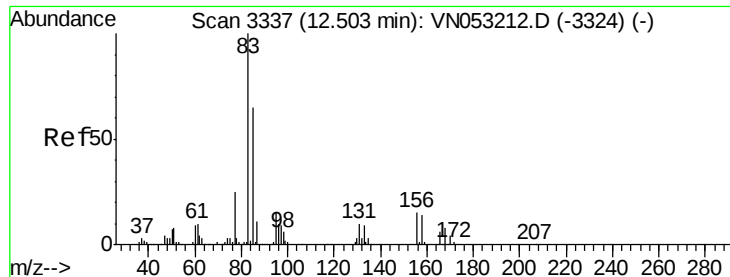
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 47.7  | 39.3  | 58.9  |
| 103     | 55.7  | 44.6  | 66.8  |



#70  
Isopropylbenzene  
Concen: 20.030 ug/l  
RT: 12.25 min Scan# 3258  
Delta R.T. -0.00 min  
Lab File: VN053280.D  
Acq: 4 Jan 2019 10:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 26.5  | 18.6  | 34.6  |

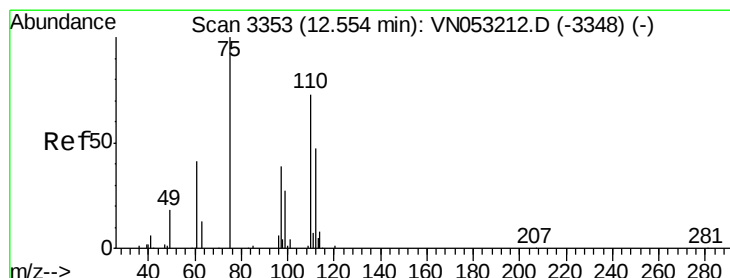
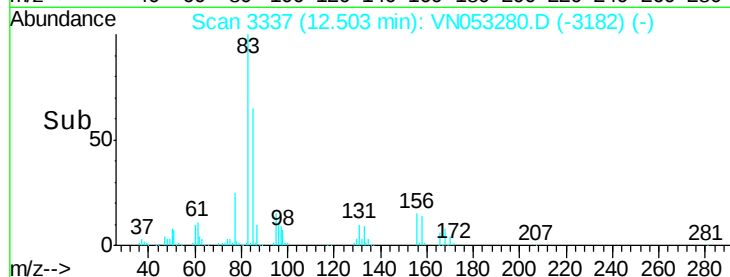
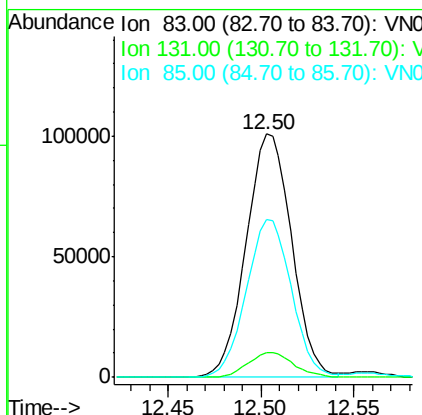
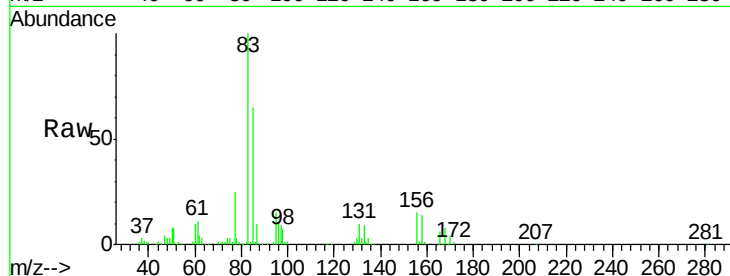




#71  
 1,1,2,2-Tetrachloroethane  
 Concen: 20.420 ug/l  
 RT: 12.50 min Scan# 3337  
 Delta R.T. -0.00 min  
 Lab File: VN053280.D  
 Acq: 4 Jan 2019 10:50

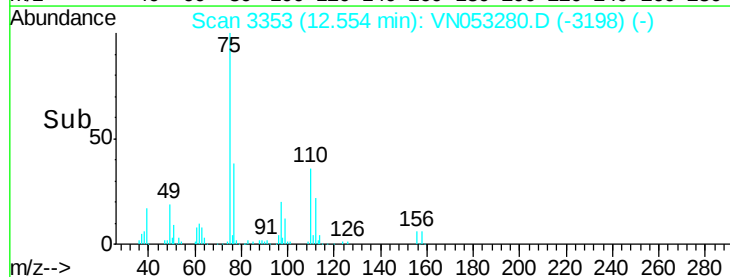
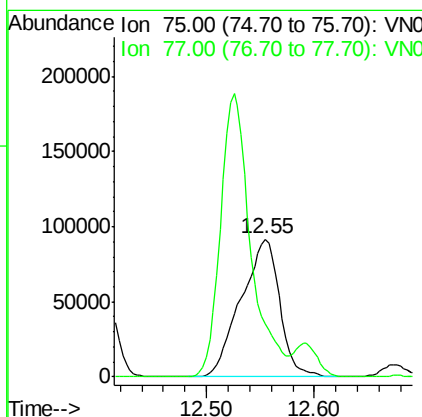
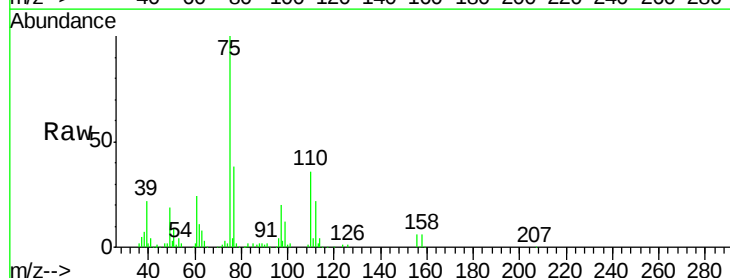
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0104WBSD01

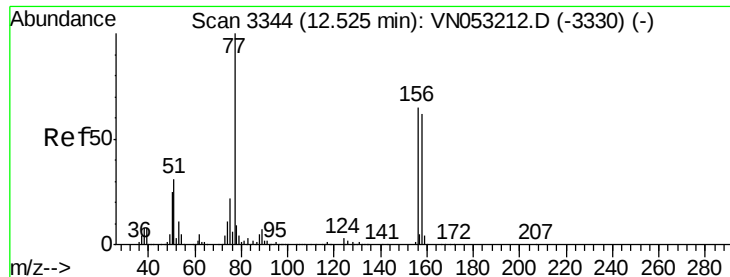
| Tot Ion   | 83    | Resp  | 172227 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 131       | 10.3  | 4.9   | 14.6   |
| 85        | 64.2  | 32.2  | 96.6   |



#72  
 1,2,3-Trichloropropane  
 Concen: 31.074 ug/l  
 RT: 12.55 min Scan# 3353  
 Delta R.T. -0.00 min  
 Lab File: VN053280.D  
 Acq: 4 Jan 2019 10:50

| Tgt Ion   | 75    | Resp  | 229502 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 77        | 161.2 | 0.0   | 514.8  |





#73

Bromobenzene

Concen: 20.420 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

Instrument :

MSVOA\_N

ClientSampleId :

VN0104WBSD01

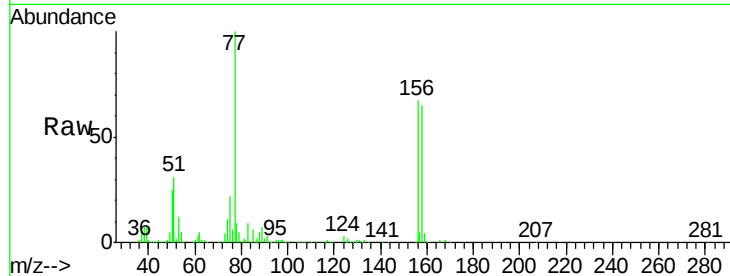
Tot Ion:156 Resp: 210307

Ion Ratio Lower Upper

156 100

77 175.9 0.0 382.6

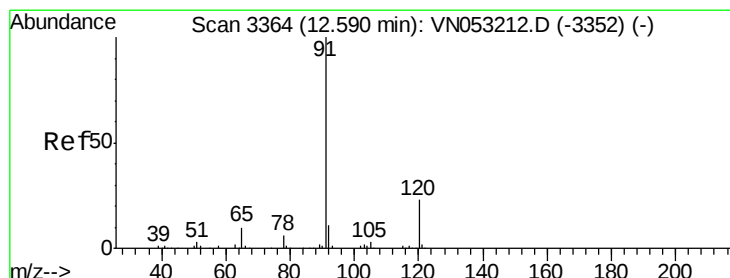
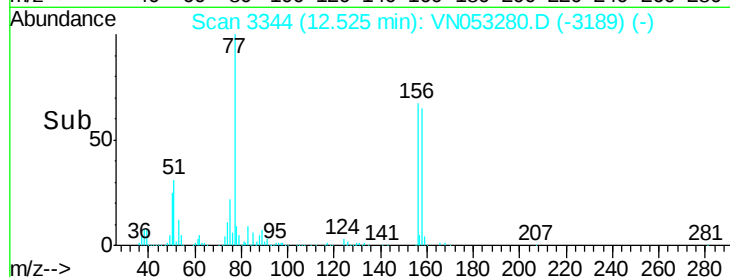
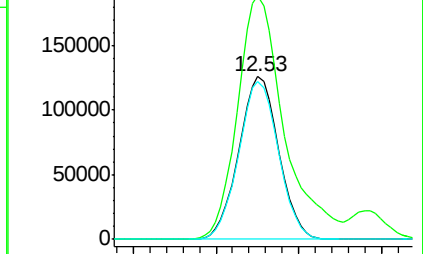
158 97.0 0.0 196.8



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 19.908 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN053280.D

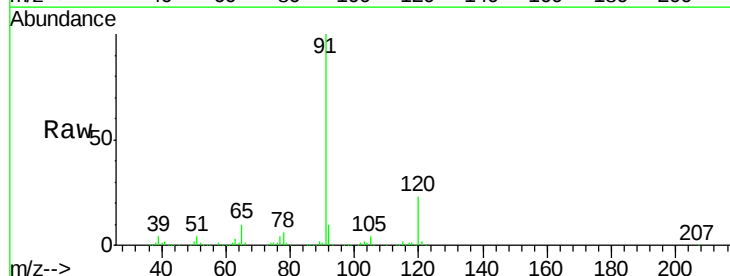
Acq: 4 Jan 2019 10:50

Tgt Ion: 91 Resp: 902896

Ion Ratio Lower Upper

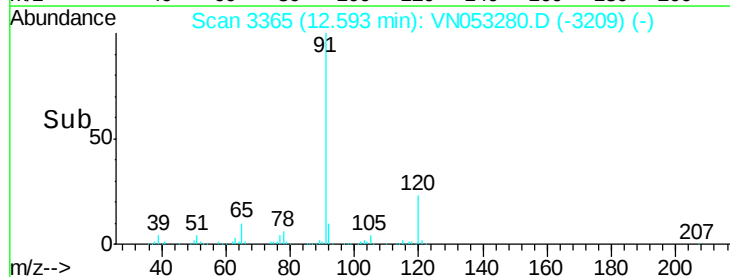
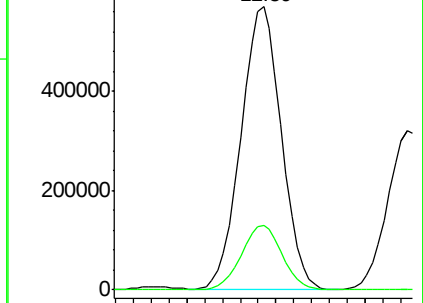
91 100

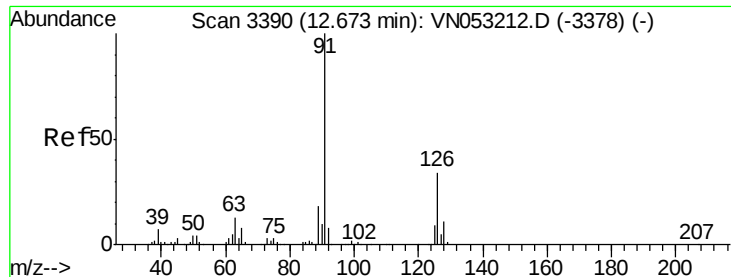
120 22.9 0.0 44.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 20.127 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

Instrument :

MSVOA\_N

ClientSampleId :

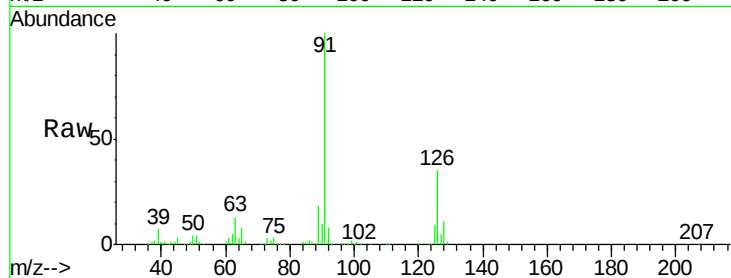
VN0104WBSD01

Tot Ion: 91 Resp: 540633

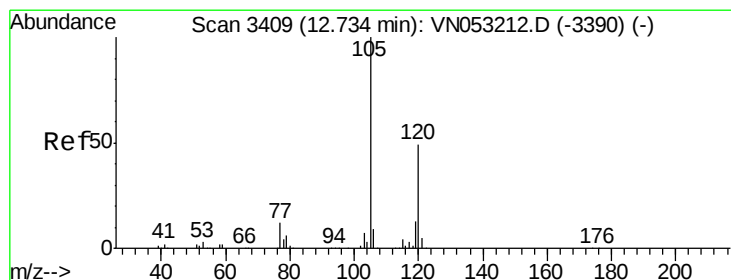
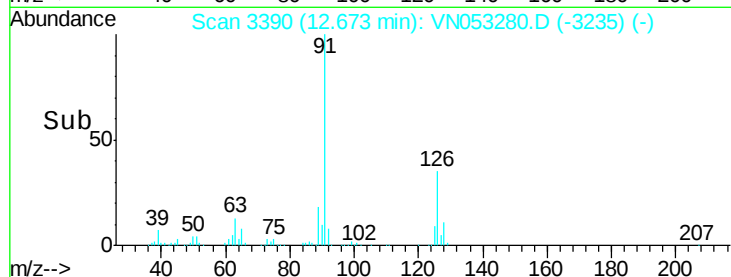
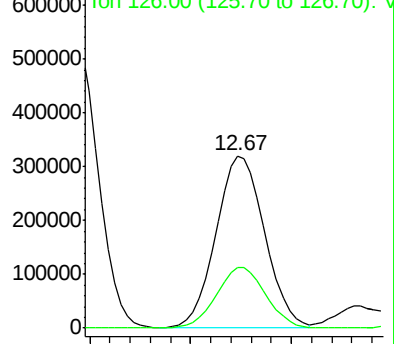
Ion Ratio Lower Upper

91 100

126 35.5 0.0 68.4



Abundance Ion 91.00 (90.70 to 91.70): VN053280.D (-3235) (-)



#76

1,3,5-Trimethylbenzene

Concen: 20.665 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN053280.D

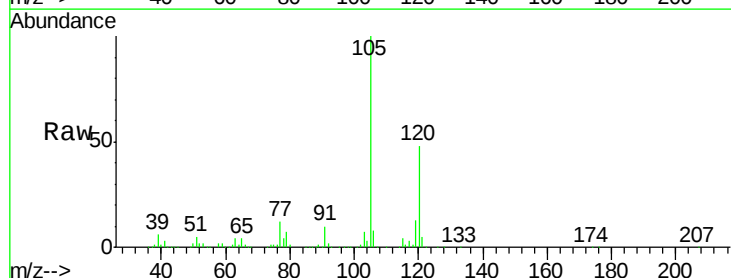
Acq: 4 Jan 2019 10:50

Tgt Ion: 105 Resp: 656794

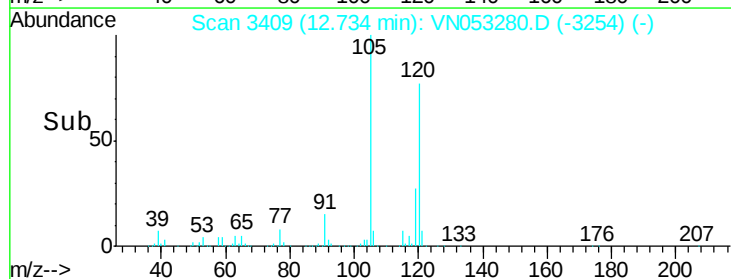
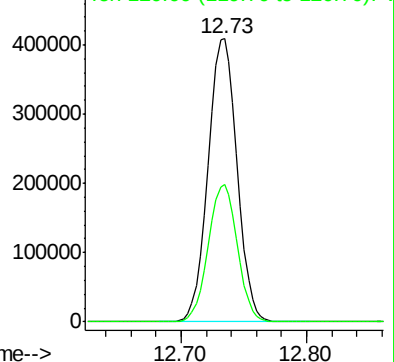
Ion Ratio Lower Upper

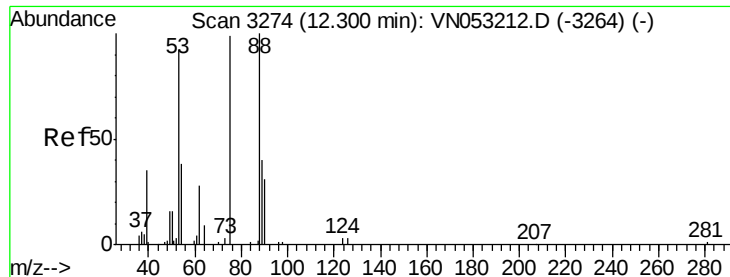
105 100

120 48.7 0.0 97.4



Abundance Ion 105.00 (104.70 to 105.70): VN053280.D (-3254) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 18.851 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

Instrument :

MSVOA\_N

ClientSampleId :

VN0104WBSD01

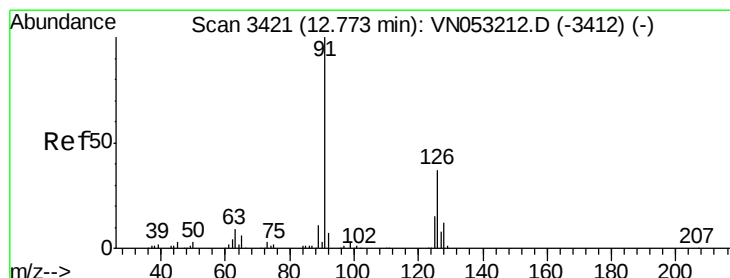
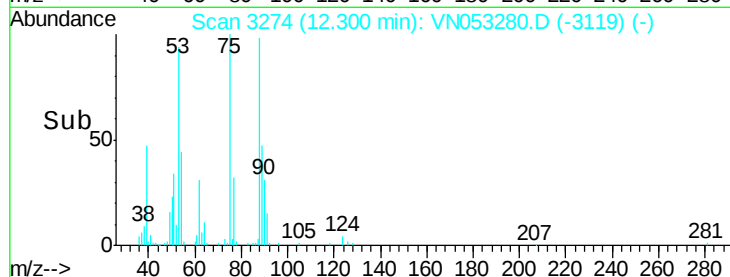
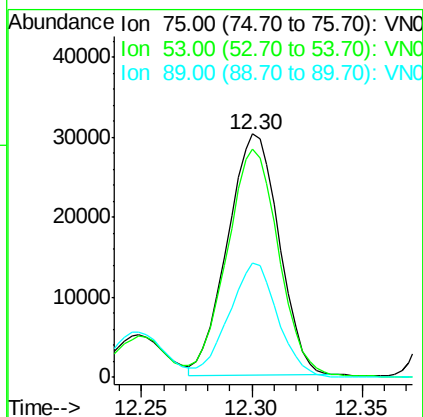
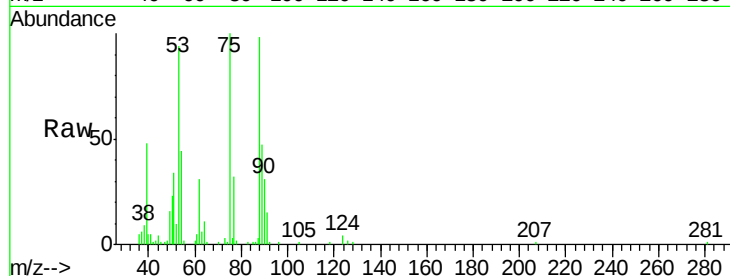
Tot Ion: 75 Resp: 48920

Ion Ratio Lower Upper

75 100

53 93.9 48.5 145.6

89 47.4 21.7 65.1



#78

4-Chlorotoluene

Concen: 20.188 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN053280.D

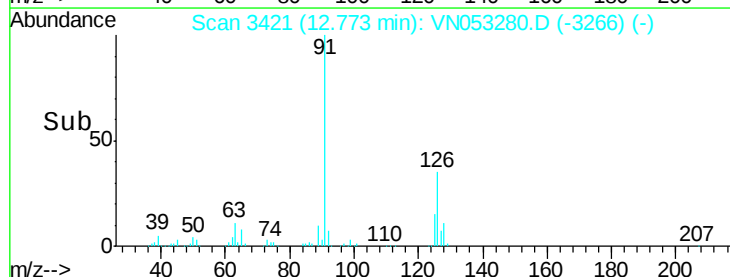
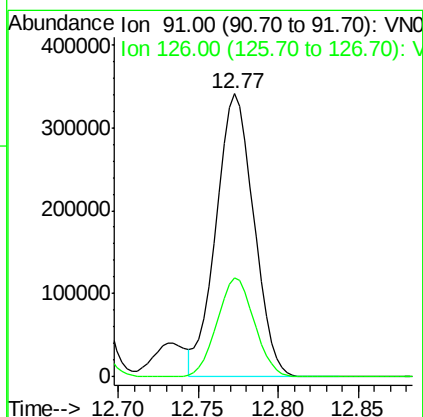
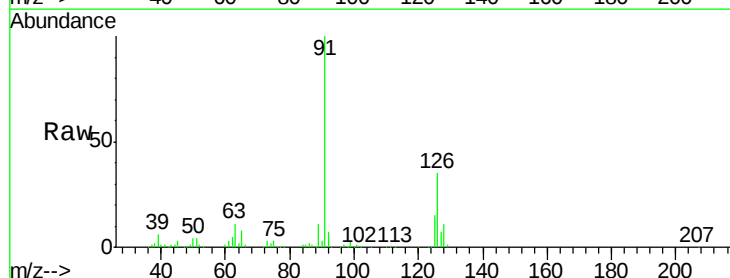
Acq: 4 Jan 2019 10:50

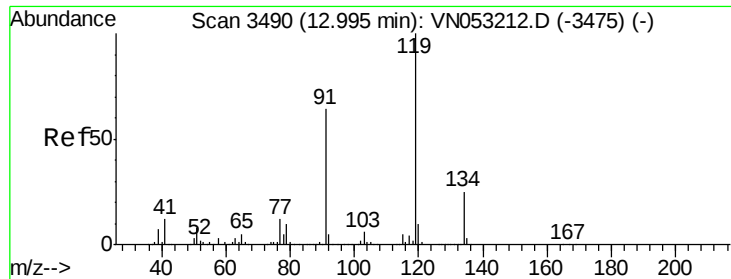
Tgt Ion: 91 Resp: 551998

Ion Ratio Lower Upper

91 100

126 34.6 0.0 68.2

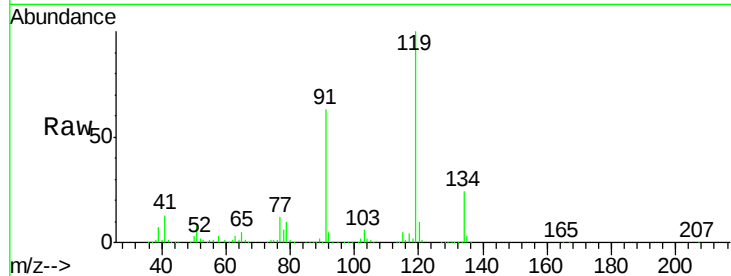




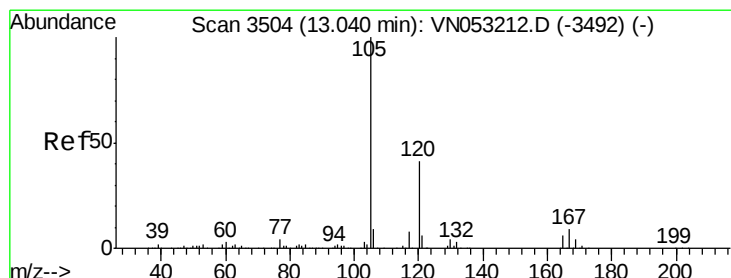
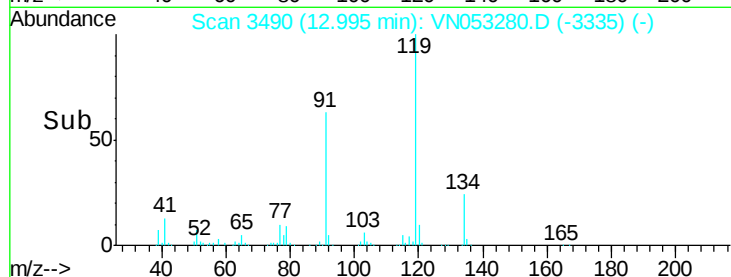
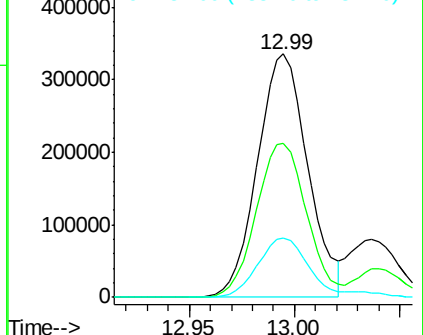
#79  
tert-butylbenzene  
Concen: 20.125 ug/l  
RT: 12.99 min Scan# 3490  
Delta R.T. -0.00 min  
Lab File: VN053280.D  
Acq: 4 Jan 2019 10:50

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0104WBSD01

Tot Ion:119 Resp: 557841  
Ion Ratio Lower Upper  
119 100  
91 63.7 0.0 129.8  
134 24.4 0.0 52.2

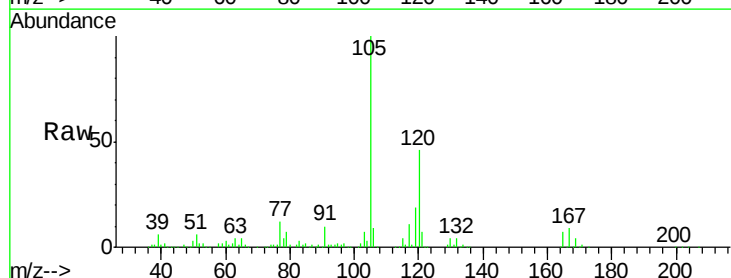


Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 91.00 (90.70 to 91.70): V  
Ion 134.00 (133.70 to 134.70): V

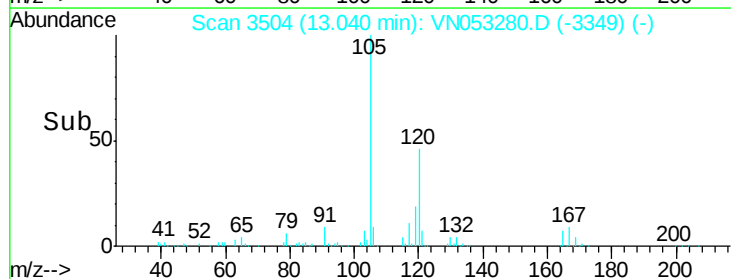
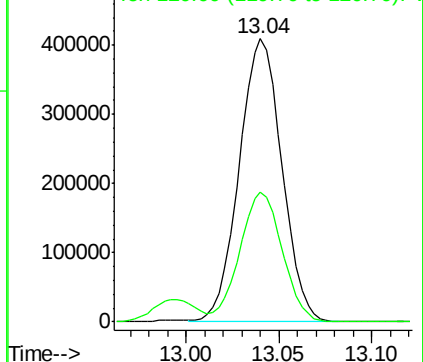


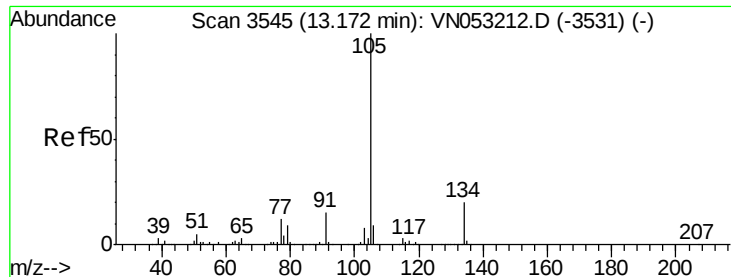
#80  
1,2,4-Trimethylbenzene  
Concen: 20.454 ug/l  
RT: 13.04 min Scan# 3504  
Delta R.T. -0.00 min  
Lab File: VN053280.D  
Acq: 4 Jan 2019 10:50

Tgt Ion:105 Resp: 651562  
Ion Ratio Lower Upper  
105 100  
120 45.7 0.0 91.0



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V

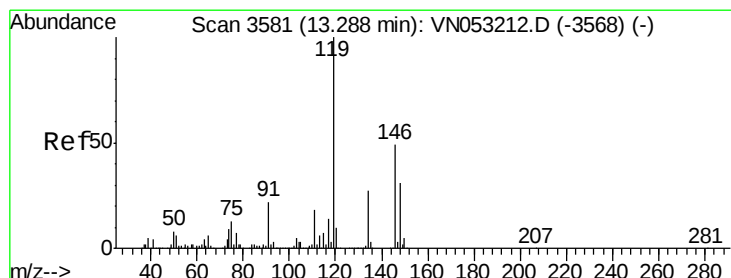
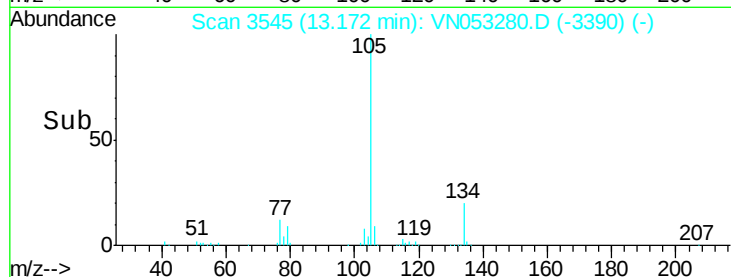
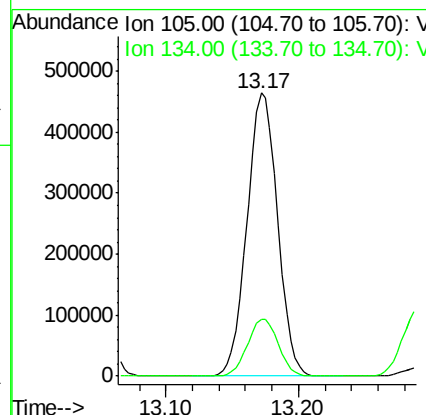
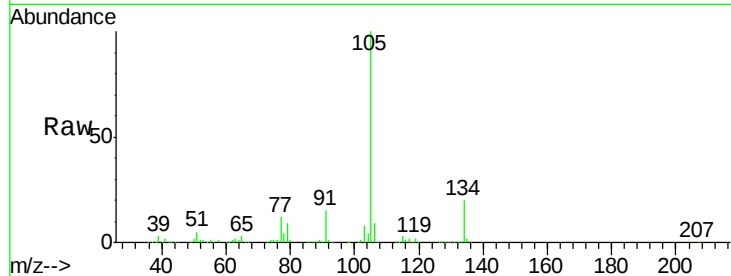




#81  
 sec-Butylbenzene  
 Concen: 20.239 ug/l  
 RT: 13.17 min Scan# 3545  
 Delta R.T. -0.00 min  
 Lab File: VN053280.D  
 Acq: 4 Jan 2019 10:50

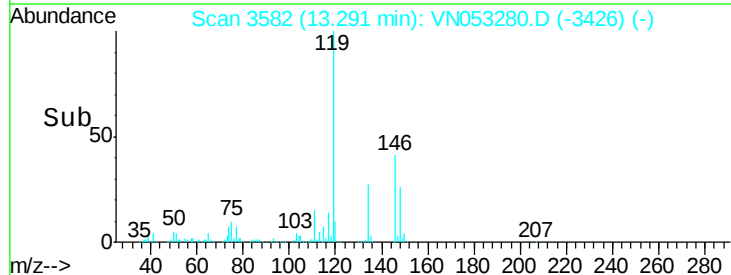
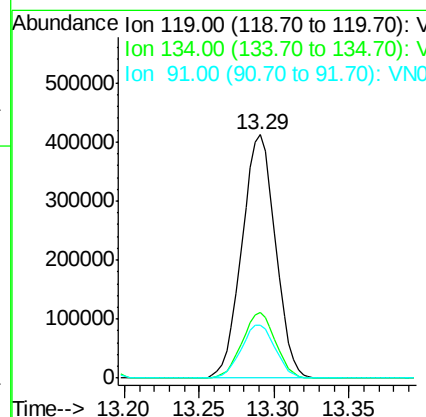
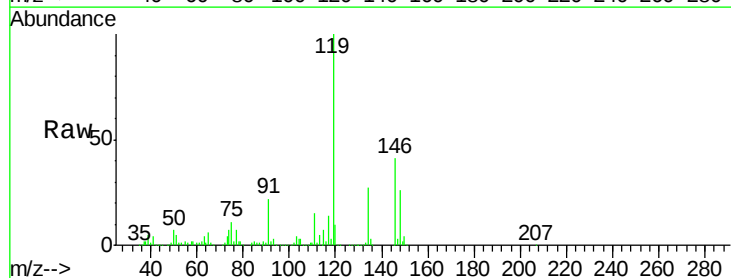
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VN0104WBSD01

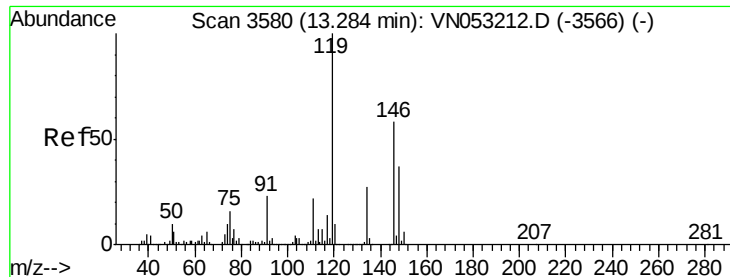
Tot Ion:105 Resp: 742879  
 Ion Ratio Lower Upper  
 105 100  
 134 20.4 0.0 40.4



#82  
 p-Isopropyltoluene  
 Concen: 20.237 ug/l  
 RT: 13.29 min Scan# 3582  
 Delta R.T. 0.00 min  
 Lab File: VN053280.D  
 Acq: 4 Jan 2019 10:50

Tgt Ion:119 Resp: 641866  
 Ion Ratio Lower Upper  
 119 100  
 134 27.0 0.0 52.6  
 91 22.4 0.0 46.2





#83

1,3-Dichlorobenzene

Concen: 20.173 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

Instrument :

MSVOA\_N

ClientSampleId :

VN0104WBSD01

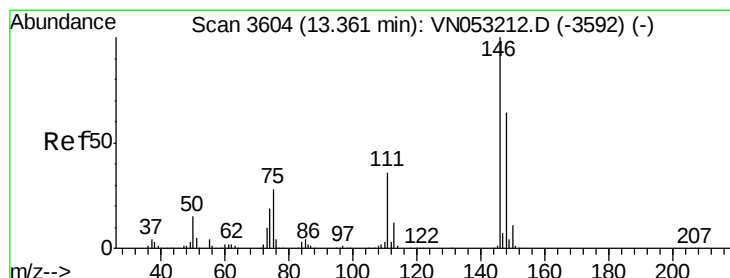
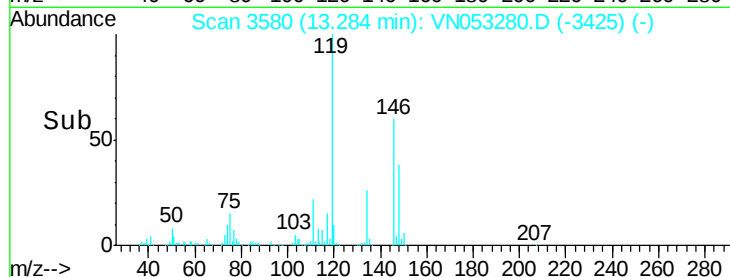
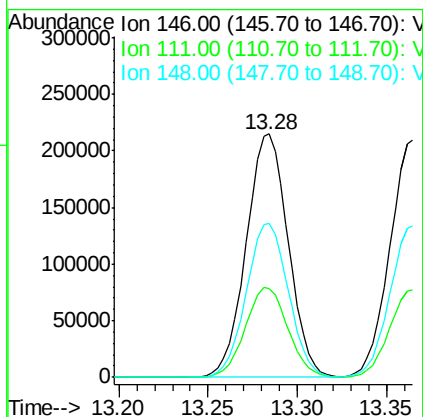
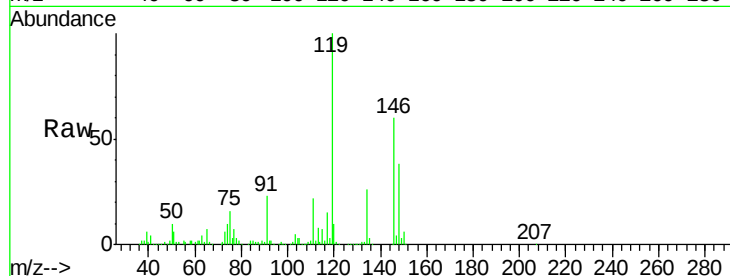
Tot Ion:146 Resp: 353750

Ion Ratio Lower Upper

146 100

111 37.3 19.7 59.0

148 63.6 32.3 96.8



#84

1,4-Dichlorobenzene

Concen: 20.041 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. 0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

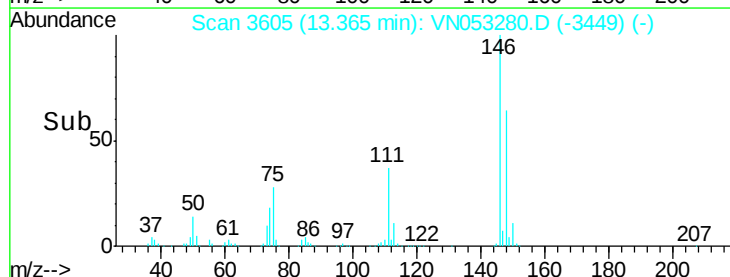
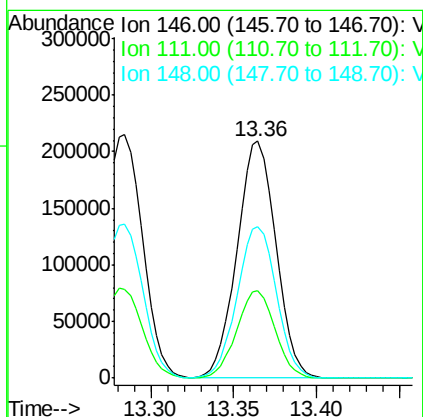
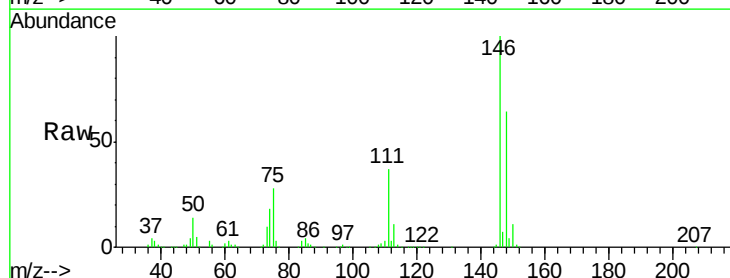
Tgt Ion:146 Resp: 342574

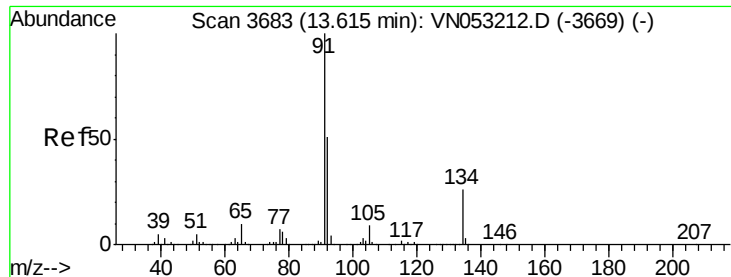
Ion Ratio Lower Upper

146 100

111 36.4 18.8 56.3

148 64.4 32.5 97.4

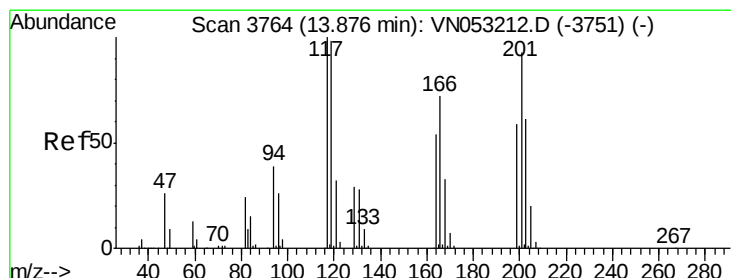
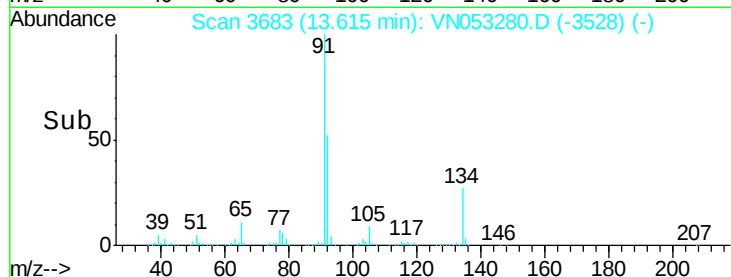
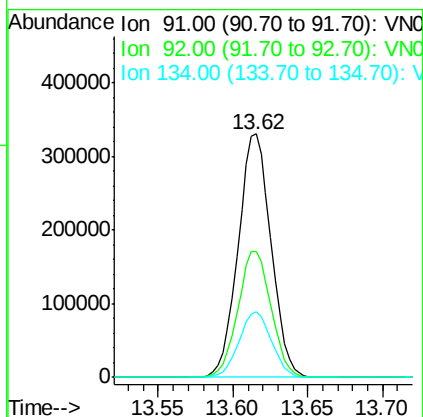
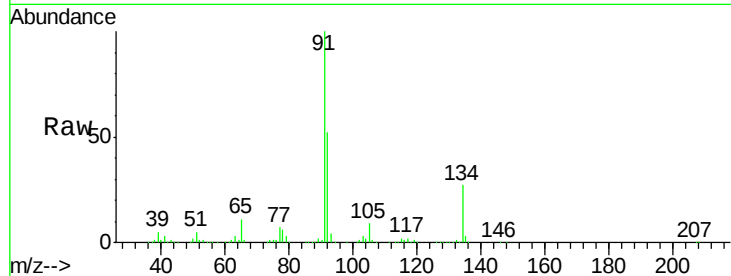




#85  
n-Butylbenzene  
Concen: 19.595 ug/l  
RT: 13.62 min Scan# 3683  
Delta R.T. -0.00 min  
Lab File: VN053280.D  
Acq: 4 Jan 2019 10:50

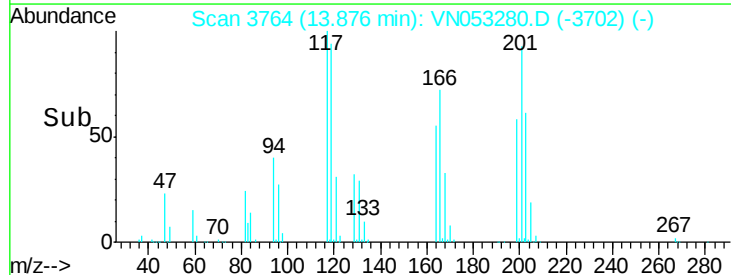
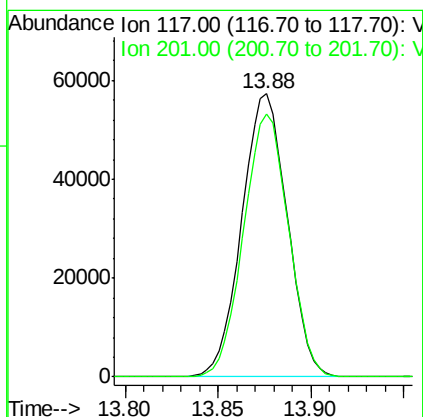
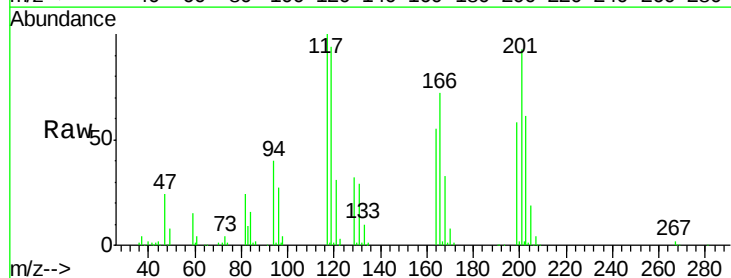
Instrument :  
MSVOA\_N  
ClientSampled :  
VN0104WBSD01

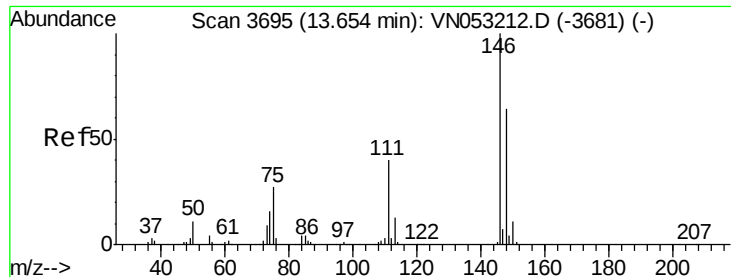
Tot Ion: 91 Resp: 505396  
Ion Ratio Lower Upper  
91 100  
92 52.3 0.0 104.2  
134 26.7 0.0 50.6



#86  
Hexachloroethane  
Concen: 19.257 ug/l  
RT: 13.88 min Scan# 3764  
Delta R.T. -0.00 min  
Lab File: VN053280.D  
Acq: 4 Jan 2019 10:50

Tgt Ion: 117 Resp: 97517  
Ion Ratio Lower Upper  
117 100  
201 91.9 43.8 131.3





#87

1,2-Dichlorobenzene

Concen: 20.203 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

Instrument :

MSVOA\_N

ClientSampled :

VN0104WBSD01

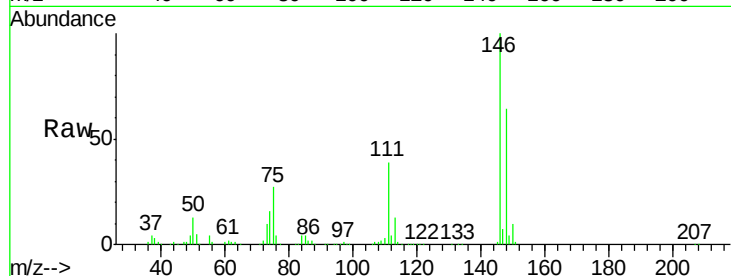
Tot Ion:146 Resp: 329185

Ion Ratio Lower Upper

146 100

111 38.5 20.3 60.8

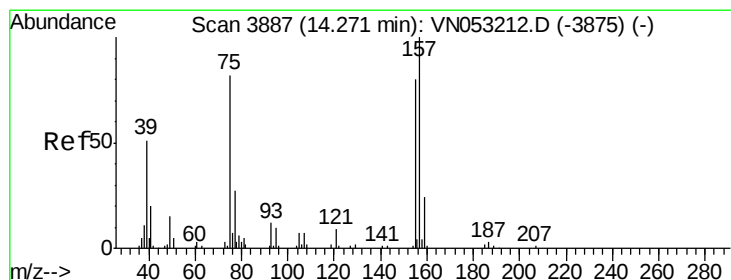
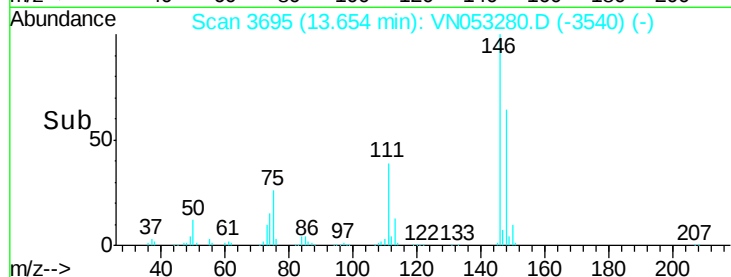
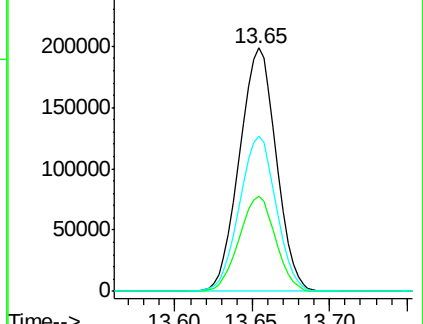
148 63.7 32.1 96.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#88

1,2-Dibromo-3-Chloropropane

Concen: 14.124 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

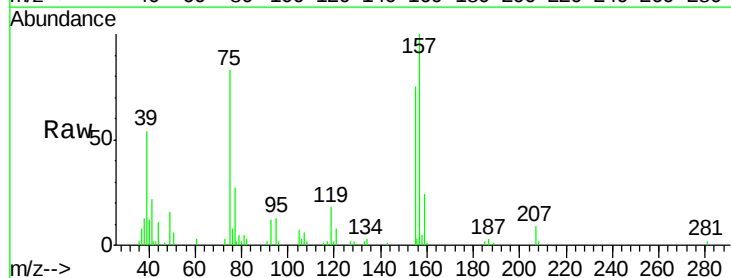
Tgt Ion: 75 Resp: 17036

Ion Ratio Lower Upper

75 100

155 97.3 72.2 108.2

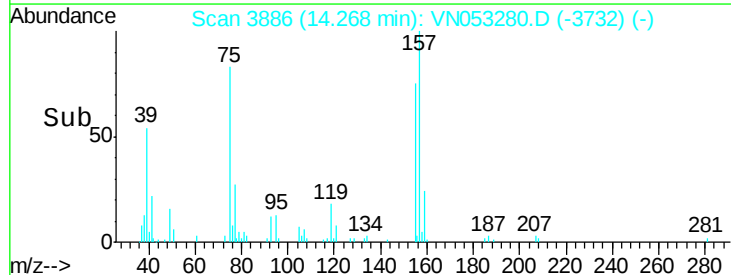
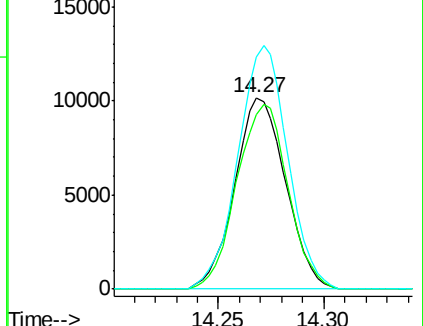
157 124.7 94.2 141.2

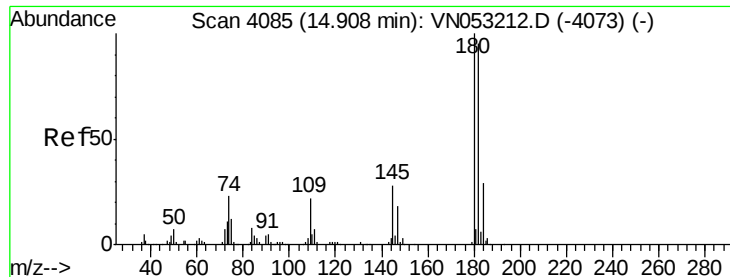


Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

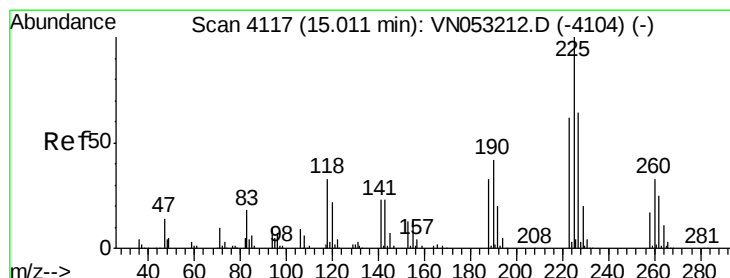
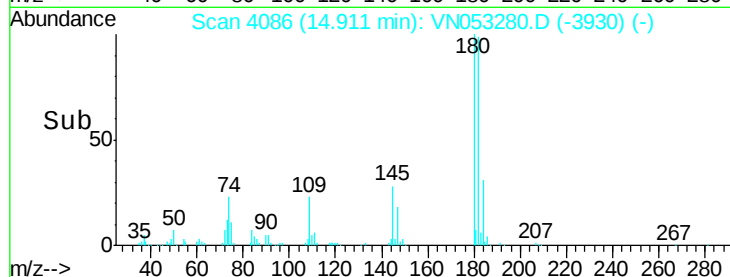
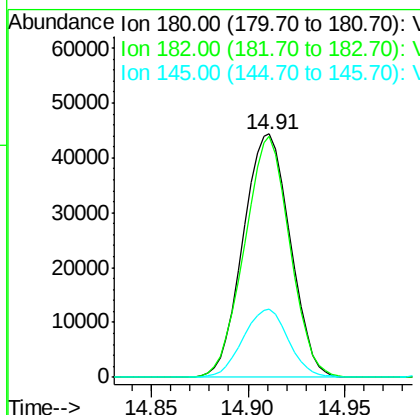
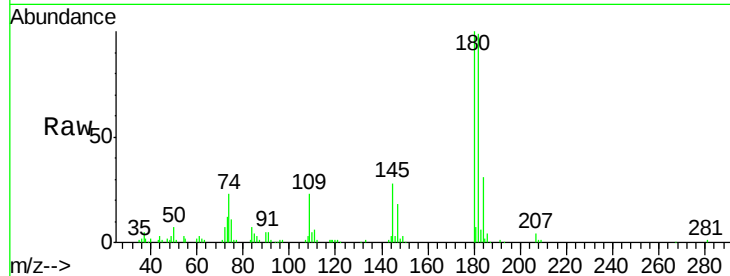




#89  
 1,2,4-Trichlorobenzene  
 Concen: 9.499 ug/l  
 RT: 14.91 min Scan# 4086  
 Delta R.T. 0.00 min  
 Lab File: VN053280.D  
 Acq: 4 Jan 2019 10:50

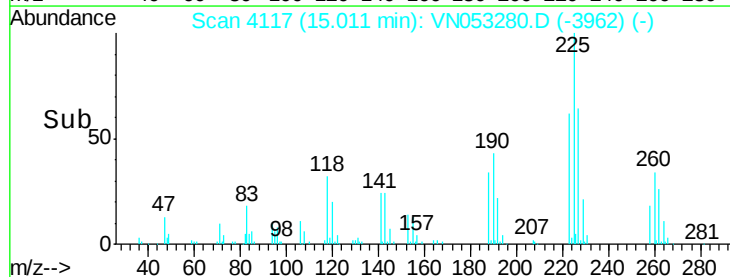
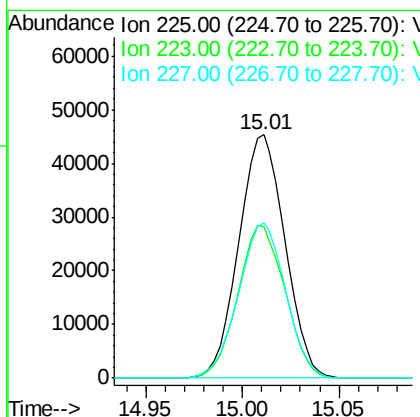
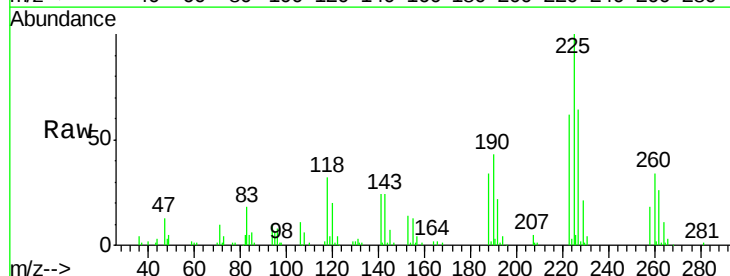
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0104WBSD01

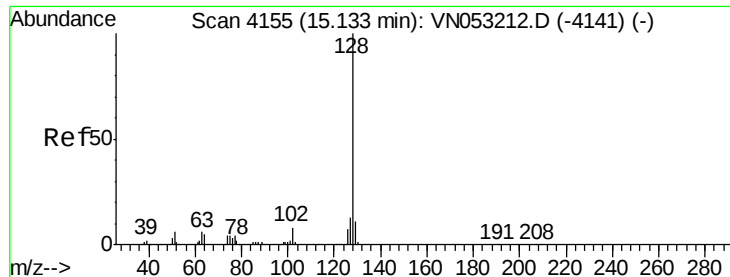
Tot Ion:180 Resp: 75122  
 Ion Ratio Lower Upper  
 180 100  
 182 95.3 76.6 114.8  
 145 27.2 23.6 35.4



#90  
 Hexachlorobutadiene  
 Concen: 15.740 ug/l  
 RT: 15.01 min Scan# 4117  
 Delta R.T. -0.00 min  
 Lab File: VN053280.D  
 Acq: 4 Jan 2019 10:50

Tgt Ion:225 Resp: 75347  
 Ion Ratio Lower Upper  
 225 100  
 223 63.7 0.0 125.6  
 227 64.9 0.0 127.8





#91

Naphthalene

Concen: 7.128 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

Instrument :

MSVOA\_N

ClientSampleId :

VN0104WBSD01

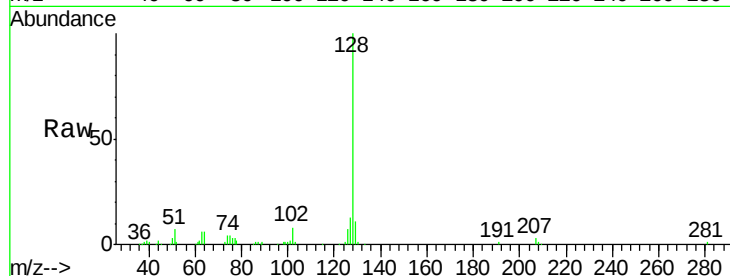
Tot Ion:128 Resp: 119611

Ion Ratio Lower Upper

128 100

127 13.0 9.9 14.9

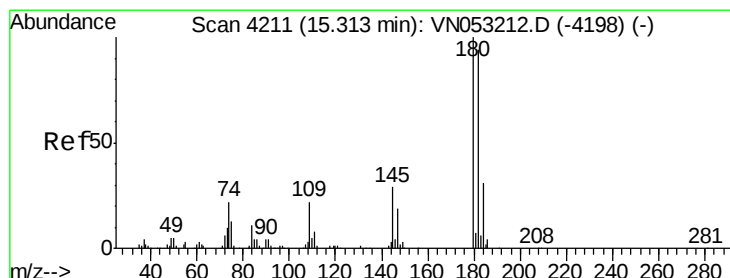
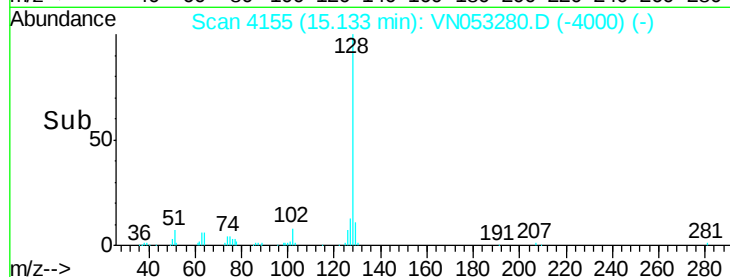
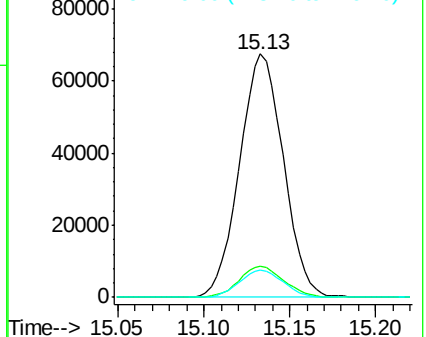
129 11.1 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#92

1,2,3-Trichlorobenzene

Concen: 6.611 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN053280.D

Acq: 4 Jan 2019 10:50

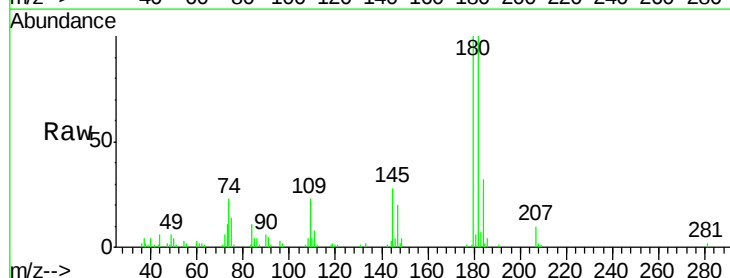
Tgt Ion:180 Resp: 46648

Ion Ratio Lower Upper

180 100

182 97.8 0.0 196.2

145 28.1 0.0 62.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

