

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102319\  
 Data File : VN058911.D  
 Acq On : 22 Oct 2019 16:08  
 Operator : JC/SP  
 Sample : VN1023WBS01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 23 01:22:11 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Oct 11 04:26:47 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.18  | 128  | 57219    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.57  | 114  | 304630   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.41 | 117  | 284778   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 8.01   | 65    | 148428   | 30.56    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 101.87% |
| 60) 4-Bromofluorobenzene  | 12.40  | 95    | 141749   | 28.45    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 94.83%  |
| 63) Toluene-d8            | 10.08  | 98    | 408018   | 30.34    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 101.13% |

## Target Compounds

|                               |      |     |        |         | Ovalue     |
|-------------------------------|------|-----|--------|---------|------------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 65801  | 21.225  | ug/l 99    |
| 3) Chloromethane              | 2.04 | 50  | 85939  | 20.752  | ug/l 98    |
| 4) Vinyl Chloride             | 2.17 | 62  | 88913  | 20.774  | ug/l 97    |
| 5) Bromomethane               | 2.54 | 94  | 57089  | 21.604  | ug/l 99    |
| 6) Chloroethane               | 2.68 | 64  | 59594  | 22.151  | ug/l 100   |
| 7) Trichlorofluoromethane     | 3.00 | 101 | 107842 | 20.471  | ug/l 97    |
| 8) Diethyl Ether              | 3.39 | 74  | 41130  | 20.470  | ug/l 98    |
| 9) 1,1,2-Trichlorotrifluoroet | 3.74 | 101 | 64173  | 21.053  | ug/l 98    |
| 10) 1,1-Dichloroethene        | 3.72 | 96  | 59470  | 19.864  | ug/l 99    |
| 11) Methyl Iodide             | 3.93 | 142 | 81139  | 19.461  | ug/l 99    |
| 12) Methyl Acetate            | 4.30 | 43  | 97993  | 20.458  | ug/l 97    |
| 13) Acrolein                  | 3.59 | 56  | 53393  | 100.886 | ug/l 95    |
| 14) Acrylonitrile             | 4.96 | 53  | 188557 | 99.906  | ug/l 98    |
| 15) Acetone                   | 3.80 | 58  | 64572  | 115.259 | ug/l 88    |
| 16) Carbon Disulfide          | 4.03 | 76  | 174475 | 19.981  | ug/l 100   |
| 17) Allyl chloride            | 4.30 | 41  | 119644 | 20.079  | ug/l 95    |
| 18) Methylene Chloride        | 4.53 | 84  | 73434  | 20.256  | ug/l 95    |
| 19) trans-1,2-Dichloroethene  | 5.02 | 96  | 65317  | 20.041  | ug/l 91    |
| 20) Diisopropyl ether         | 5.93 | 45  | 249505 | 20.551  | ug/l 97    |
| 21) 1,1-Dichloroethane        | 5.82 | 63  | 139826 | 20.799  | ug/l 99    |
| 22) cis-1,2-Dichloroethene    | 6.81 | 96  | 77725  | 20.001  | ug/l 97    |
| 23) tert-Butyl Alcohol        | 4.76 | 59  | 64478  | 83.524  | ug/l # 100 |
| 24) Methyl tert-Butyl Ether   | 5.02 | 73  | 219341 | 19.639  | ug/l 97    |
| 25) Chloroform                | 7.35 | 83  | 138514 | 20.659  | ug/l 100   |
| 26) Cyclohexane               | 7.63 | 56  | 115241 | 19.530  | ug/l # 97  |
| 29) 1,1-Dichloropropene       | 7.77 | 75  | 99270  | 20.701  | ug/l 99    |
| 30) 2-Butanone                | 6.81 | 43  | 272823 | 100.679 | ug/l 99    |
| 31) 2,2-Dichloropropane       | 6.80 | 77  | 122229 | 21.626  | ug/l 96    |
| 32) 1,1,1-Trichloroethane     | 7.55 | 97  | 119673 | 21.577  | ug/l 99    |
| 33) Carbon Tetrachloride      | 7.76 | 117 | 103421 | 21.543  | ug/l 99    |
| 34) Benzene                   | 8.02 | 78  | 299566 | 21.220  | ug/l 97    |
| 35) Methacrylonitrile         | 7.16 | 41  | 46526  | 19.436  | ug/l 93    |
| 36) 1,2-Dichloroethane        | 8.11 | 62  | 117097 | 21.694  | ug/l 100   |
| 37) Trichloroethene           | 8.82 | 130 | 70734  | 20.395  | ug/l 99    |
| 38) Methylcyclohexane         | 9.07 | 83  | 106621 | 19.177  | ug/l 97    |
| 39) 1,2-Dichloropropane       | 9.11 | 63  | 81690  | 21.174  | ug/l 98    |
| 40) Dibromomethane            | 9.20 | 93  | 52608  | 21.600  | ug/l 98    |

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 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 23 01:22:11 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Oct 11 04:26:47 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 41) Bromodichloromethane       | 9.39  | 83   | 107510   | 21.607  | ug/l   | 96       |
| 42) Vinyl Acetate              | 5.87  | 43   | 1024813  | 107.984 | ug/l   | 99       |
| 43) Ethyl Acetate              | 6.91  | 43   | 108171   | 20.338  | ug/l   | 98       |
| 44) Isopropyl Acetate          | 8.15  | 43   | 174803   | 20.290  | ug/l # | 87       |
| 45) 1,4-Dioxane                | 9.19  | 88   | 22426    | 338.995 | ug/l   | 92       |
| 46) Methyl methacrylate        | 9.19  | 41   | 77852    | 19.684  | ug/l   | 99       |
| 47) n-amyl Acetate             | 12.07 | 43   | 143980   | 18.852  | ug/l   | 97       |
| 48) t-1,3-Dichloropropene      | 10.38 | 75   | 117831   | 20.419  | ug/l   | 96       |
| 49) cis-1,3-Dichloropropene    | 9.83  | 75   | 126365   | 20.854  | ug/l   | 98       |
| 50) 1,1,2-Trichloroethane      | 10.56 | 97   | 73478    | 21.133  | ug/l   | 94       |
| 51) Ethyl methacrylate         | 10.43 | 69   | 106686   | 19.189  | ug/l   | 97       |
| 52) 1,3-Dichloropropane        | 10.70 | 76   | 129142   | 20.856  | ug/l   | 99       |
| 53) Dibromochloromethane       | 10.90 | 129  | 79149    | 21.212  | ug/l   | 99       |
| 54) 1,2-Dibromoethane          | 11.00 | 107  | 74470    | 20.664  | ug/l   | 98       |
| 55) 2-Chloroethyl vinyl ether  | 9.69  | 63   | 258017   | 93.298  | ug/l   | 99       |
| 56) Bromoform                  | 12.13 | 173  | 54154    | 20.834  | ug/l   | 99       |
| 58) 4-Methyl-2-Pentanone       | 9.98  | 43   | 541078   | 104.152 | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.75 | 43   | 400979   | 98.453  | ug/l   | 98       |
| 61) Tetrachloroethene          | 10.63 | 164  | 64357    | 20.913  | ug/l   | 97       |
| 62) Toluene                    | 10.15 | 91   | 316397   | 20.655  | ug/l   | 99       |
| 64) Chlorobenzene              | 11.43 | 112  | 188057   | 20.080  | ug/l   | 98       |
| 65) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 72794    | 20.729  | ug/l   | 98       |
| 66) Ethyl Benzene              | 11.51 | 91   | 338353   | 19.948  | ug/l   | 99       |
| 67) m/p-Xylenes                | 11.62 | 106  | 248927   | 39.281  | ug/l   | 98       |
| 68) o-Xylene                   | 11.95 | 106  | 120620   | 19.634  | ug/l   | 100      |
| 69) Styrene                    | 11.97 | 104  | 192967   | 19.013  | ug/l   | 99       |
| 70) Isopropylbenzene           | 12.25 | 105  | 326129   | 19.663  | ug/l   | 100      |
| 71) 1,1,2,2-Tetrachloroethane  | 12.51 | 83   | 112679   | 20.180  | ug/l   | 99       |
| 72) 1,2,3-Trichloropropane     | 12.55 | 75   | 149624   | 29.572  | ug/l   | 59       |
| 73) Bromobenzene               | 12.53 | 156  | 80373    | 19.950  | ug/l   | 99       |
| 74) n-propylbenzene            | 12.59 | 91   | 391152   | 20.148  | ug/l   | 100      |
| 75) 2-Chlorotoluene            | 12.68 | 91   | 232990   | 19.947  | ug/l   | 100      |
| 76) 1,3,5-Trimethylbenzene     | 12.74 | 105  | 280499   | 19.745  | ug/l   | 99       |
| 77) t-1,4-Dichloro-2-butene    | 12.30 | 75   | 36738    | 19.060  | ug/l   | 96       |
| 78) 4-Chlorotoluene            | 12.78 | 91   | 240879   | 20.008  | ug/l   | 100      |
| 79) tert-butylbenzene          | 13.00 | 119  | 234390   | 19.312  | ug/l   | 99       |
| 80) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 280534   | 19.873  | ug/l   | 100      |
| 81) sec-Butylbenzene           | 13.17 | 105  | 319249   | 19.545  | ug/l   | 100      |
| 82) p-Isopropyltoluene         | 13.29 | 119  | 283230   | 19.310  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene        | 13.29 | 146  | 142648   | 19.568  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene        | 13.37 | 146  | 136291   | 18.717  | ug/l   | 99       |
| 85) n-Butylbenzene             | 13.62 | 91   | 249728   | 18.597  | ug/l   | 99       |
| 86) Hexachloroethane           | 13.88 | 117  | 53437    | 20.019  | ug/l   | 98       |
| 87) 1,2-Dichlorobenzene        | 13.66 | 146  | 141420   | 19.651  | ug/l   | 99       |
| 88) 1,2-Dibromo-3-Chloropropan | 14.28 | 75   | 23213    | 18.678  | ug/l   | 99       |
| 89) 1,2,4-Trichlorobenzene     | 14.92 | 180  | 74594    | 16.415  | ug/l   | 97       |
| 90) Hexachlorobutadiene        | 15.01 | 225  | 42902    | 18.283  | ug/l   | 98       |
| 91) Naphthalene                | 15.13 | 128  | 206236   | 15.371  | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene     | 15.30 | 180  | 75255    | 17.012  | ug/l   | 97       |

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Sample : VN1023WBS01  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

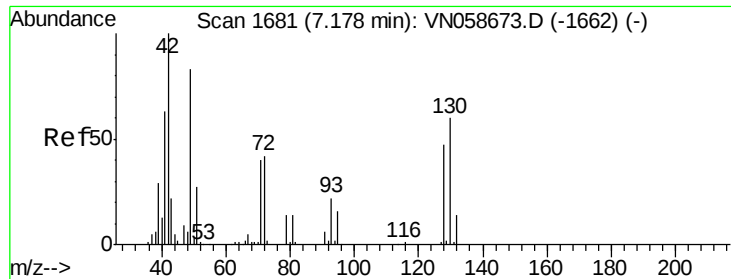
Quant Time: Oct 23 01:22:11 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Oct 11 04:26:47 2019  
Response via : Initial Calibration

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

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





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VN058911.D

Acq: 22 Oct 2019 16:08

Instrument :  
MSVOA\_N  
ClientSampled :

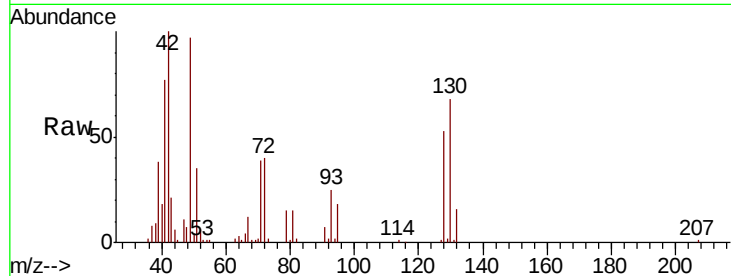
Tot Ion:128 Resp: 57219

Ion Ratio Lower Upper

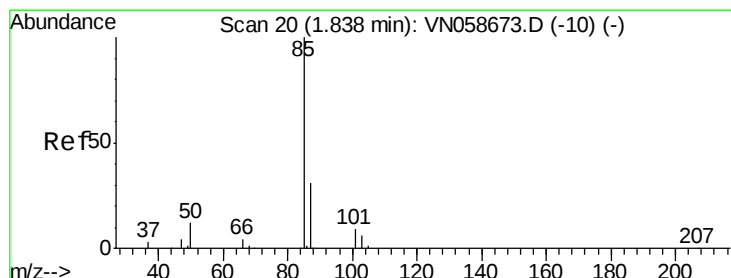
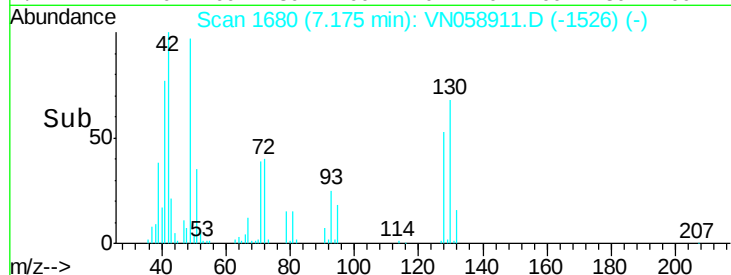
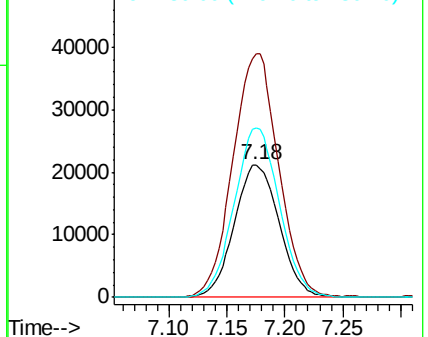
128 100

49 186.6 0.0 453.5

130 128.3 0.0 314.2



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



#2

Dichlorodifluoromethane

Concen: 21.225 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN058911.D

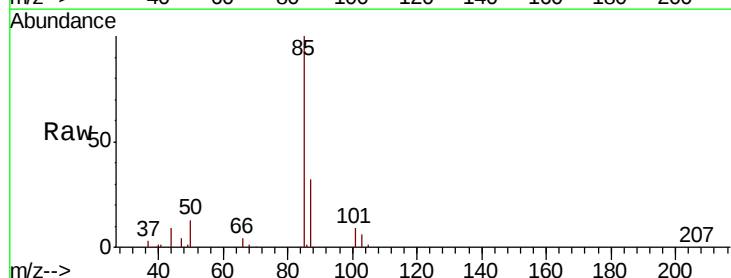
Acq: 22 Oct 2019 16:08

Tgt Ion: 85 Resp: 65801

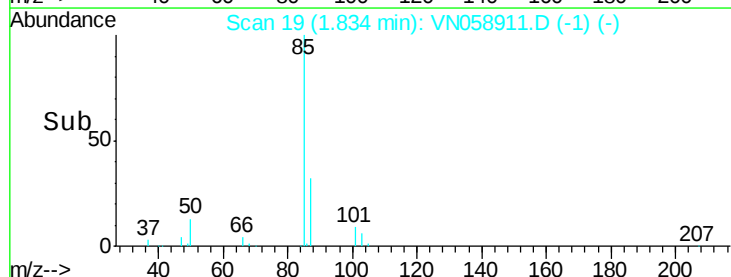
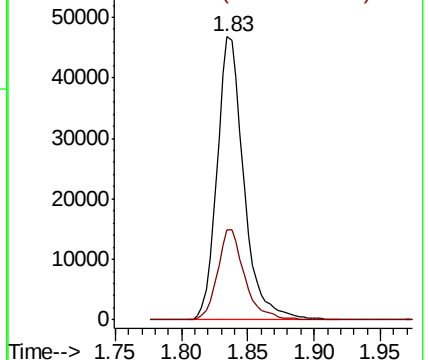
Ion Ratio Lower Upper

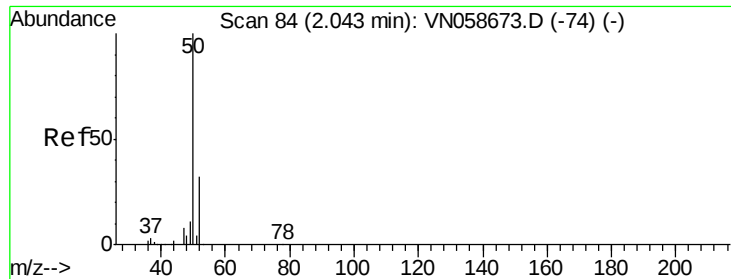
85 100

87 31.8 15.7 47.0



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





#3

Chloromethane

Concen: 20.752 ug/l

RT: 2.04 min Scan# 83

Delta R.T. -0.00 min

Lab File: VN058911.D

Acq: 22 Oct 2019 16:08

Instrument :

MSVOA\_N

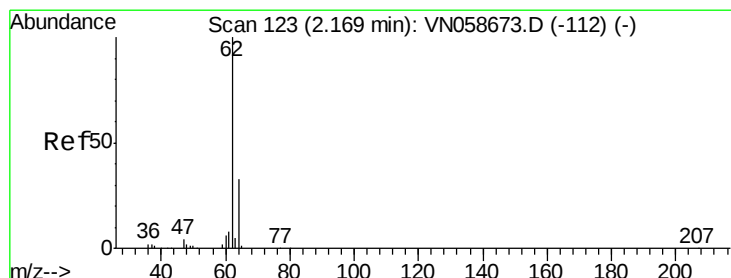
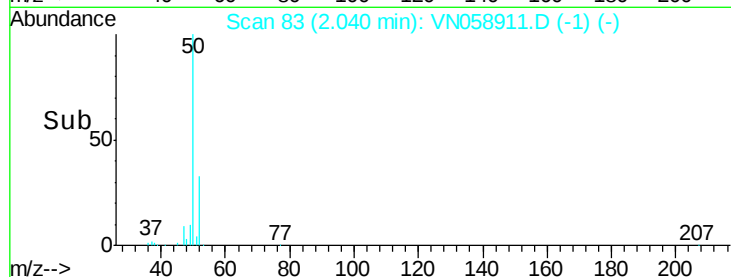
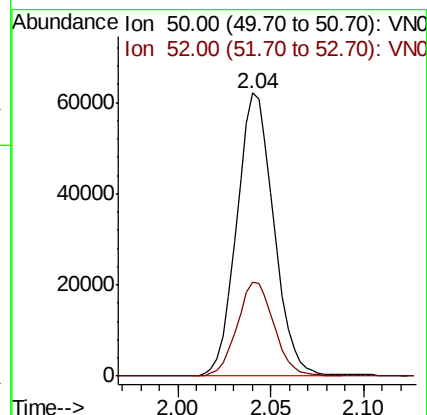
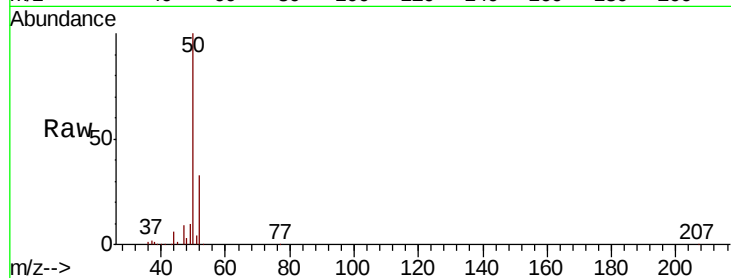
ClientSampleId :

Tot Ion: 50 Resp: 85939

Ion Ratio Lower Upper

50 100

52 33.3 25.8 38.8



#4

Vinyl Chloride

Concen: 20.774 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN058911.D

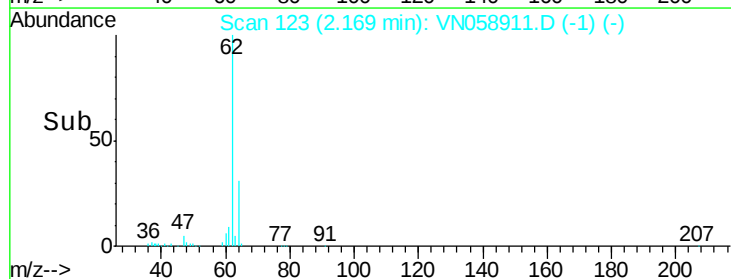
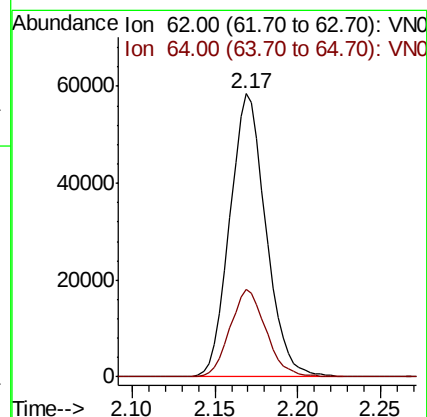
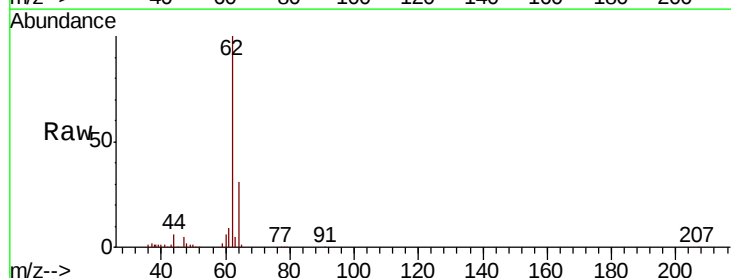
Acq: 22 Oct 2019 16:08

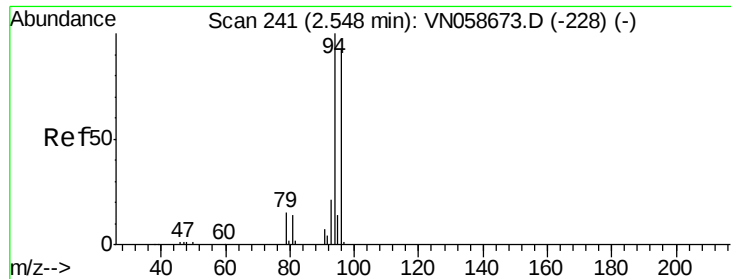
Tgt Ion: 62 Resp: 88913

Ion Ratio Lower Upper

62 100

64 30.8 26.1 39.1





#5

Bromomethane

Concen: 21.604 ug/l

RT: 2.54 min Scan# 239

Delta R.T. -0.01 min

Lab File: VN058911.D

Acq: 22 Oct 2019 16:08

Instrument :

MSVOA\_N

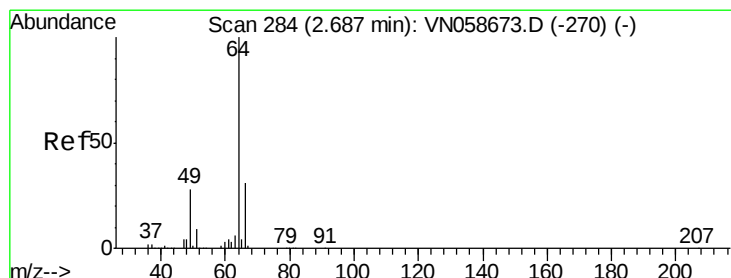
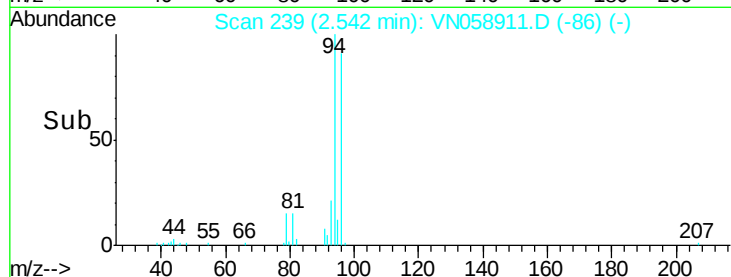
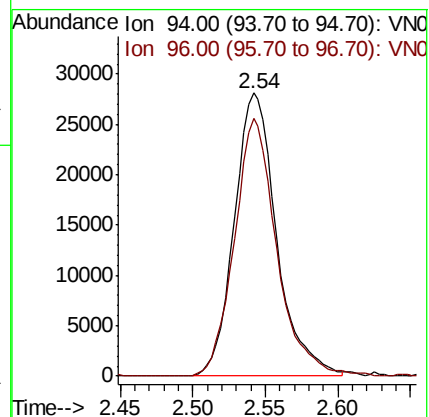
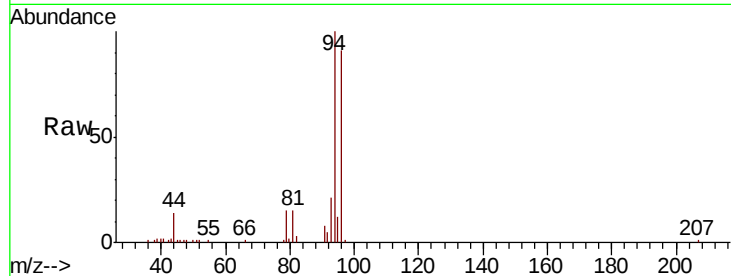
ClientSampleId :

Tot Ion: 94 Resp: 57089

Ion Ratio Lower Upper

94 100

96 91.0 73.7 110.5



#6

Chloroethane

Concen: 22.151 ug/l

RT: 2.68 min Scan# 283

Delta R.T. -0.00 min

Lab File: VN058911.D

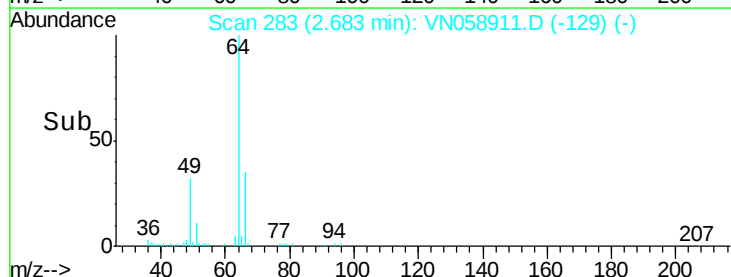
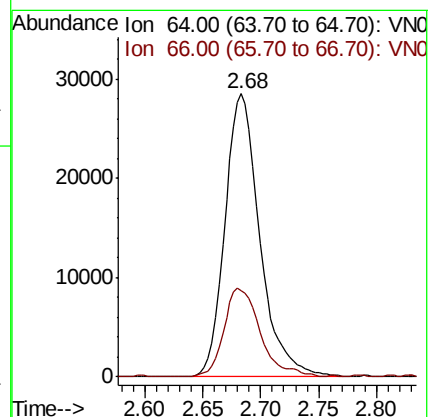
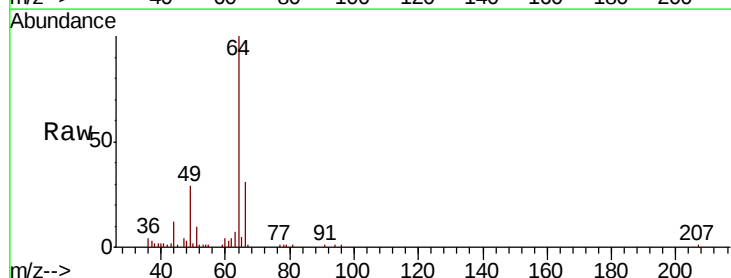
Acq: 22 Oct 2019 16:08

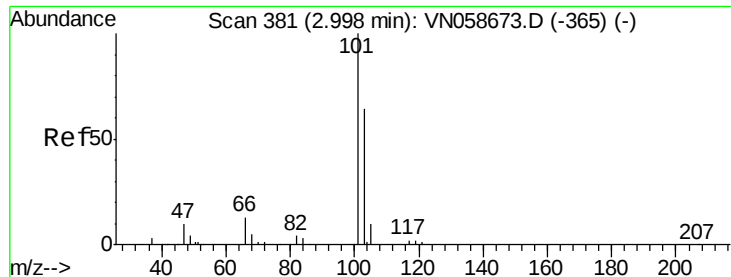
Tgt Ion: 64 Resp: 59594

Ion Ratio Lower Upper

64 100

66 30.7 24.6 36.8



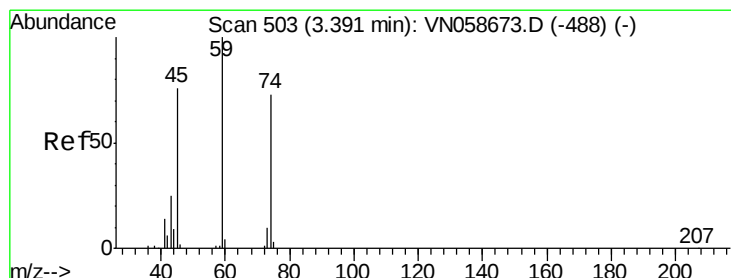
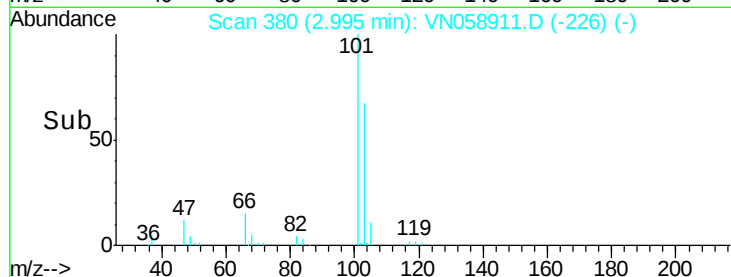
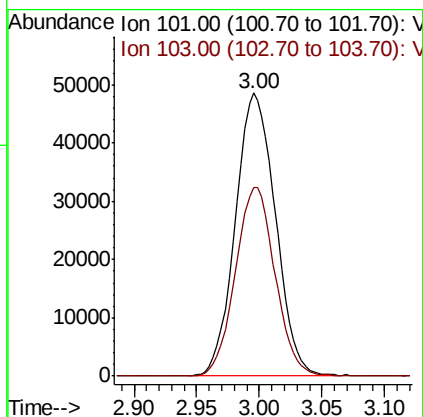
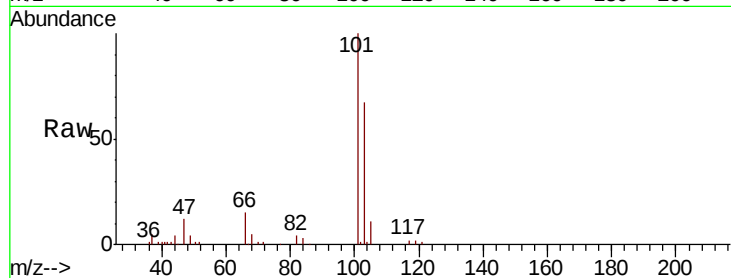


#7

Trichlorofluoromethane  
Concen: 20.471 ug/l  
RT: 3.00 min Scan# 380  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

Instrument :  
MSVOA\_N  
ClientSampled :

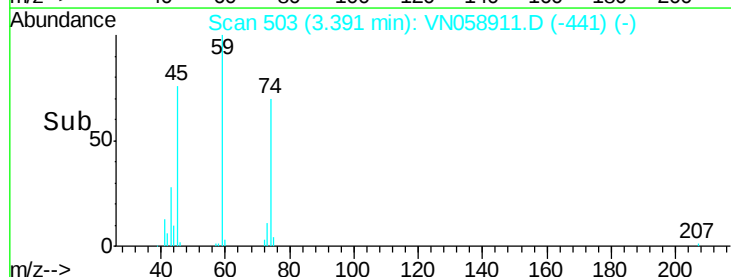
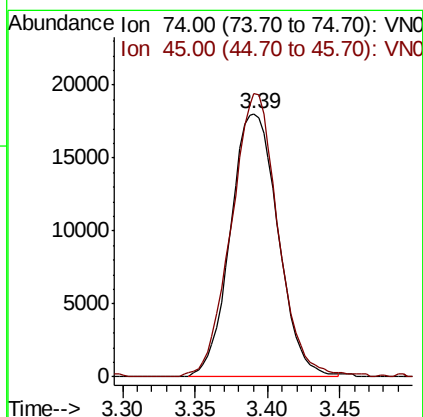
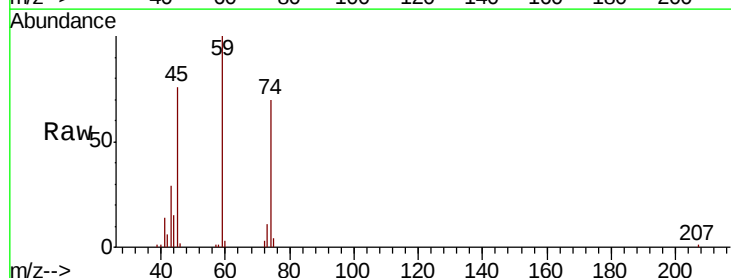
Tot Ion:101 Resp: 107842  
Ion Ratio Lower Upper  
101 100  
103 66.8 51.5 77.3

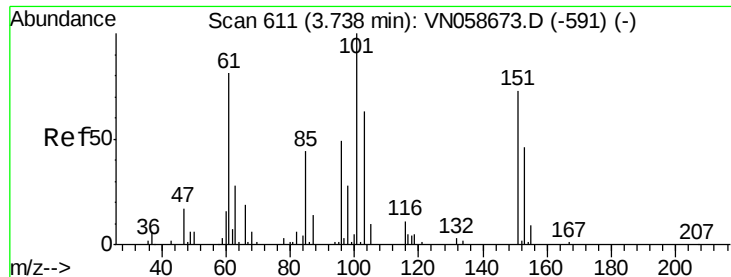


#8

Diethyl Ether  
Concen: 20.470 ug/l  
RT: 3.39 min Scan# 503  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

Tgt Ion: 74 Resp: 41130  
Ion Ratio Lower Upper  
74 100  
45 105.3 20.6 185.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.053 ug/l

RT: 3.74 min Scan# 611

Delta R.T. -0.00 min

Lab File: VN058911.D

Acq: 22 Oct 2019 16:08

Instrument :

MSVOA\_N

ClientSampled :

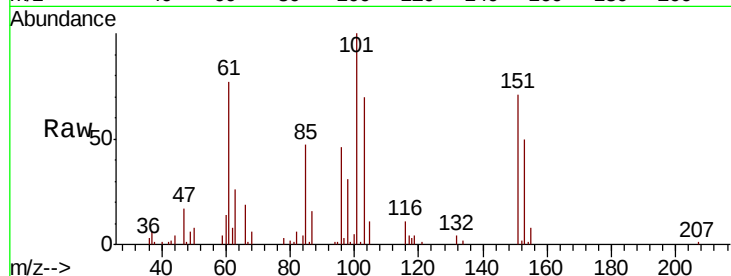
Tot Ion:101 Resp: 64173

Ion Ratio Lower Upper

101 100

85 45.9 0.0 93.8

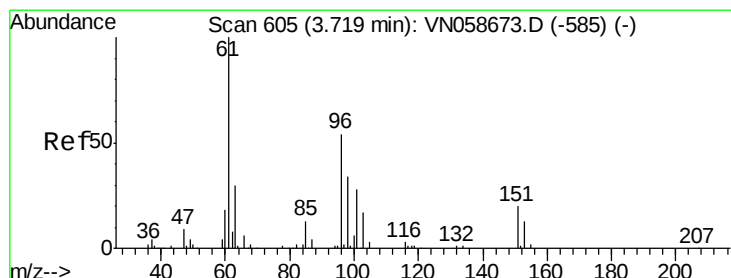
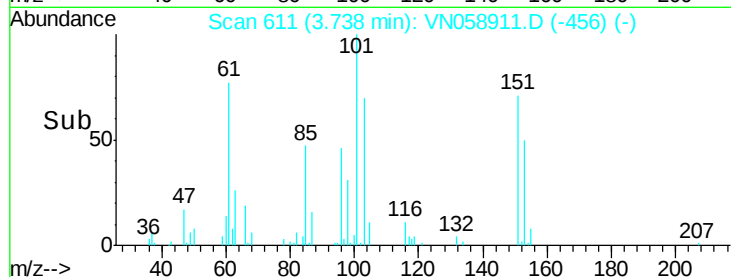
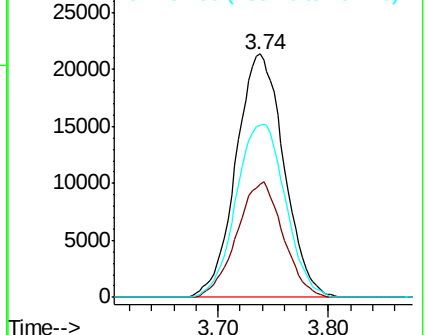
151 73.3 0.0 149.6



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: 19.864 ug/l

RT: 3.72 min Scan# 604

Delta R.T. -0.00 min

Lab File: VN058911.D

Acq: 22 Oct 2019 16:08

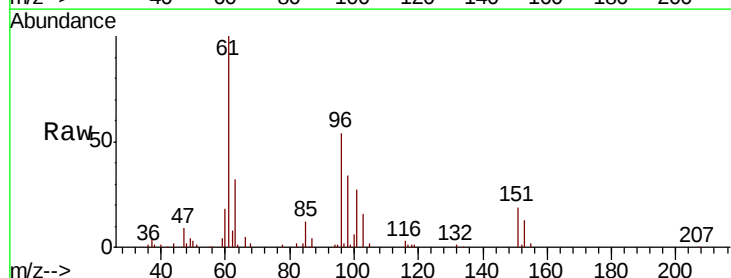
Tgt Ion: 96 Resp: 59470

Ion Ratio Lower Upper

96 100

61 184.6 148.5 222.7

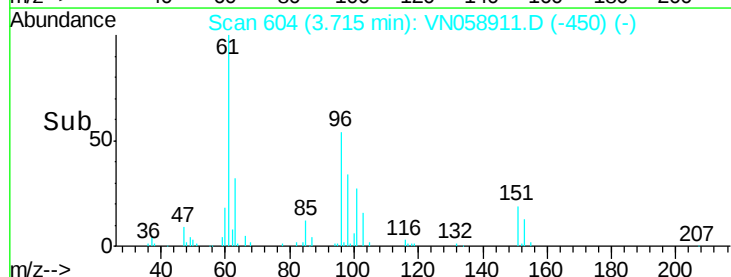
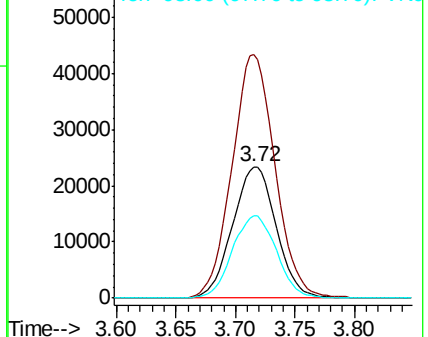
98 63.0 51.0 76.6

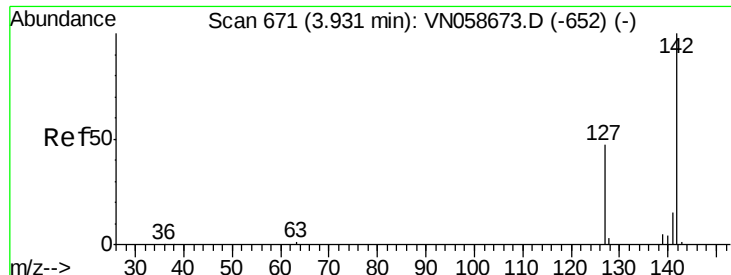


Abundance Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO

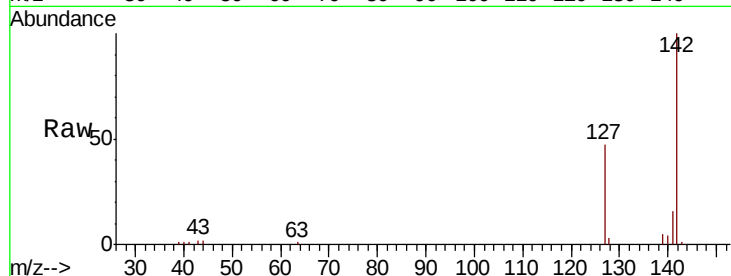




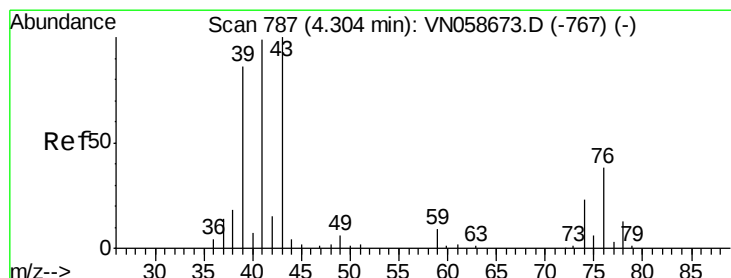
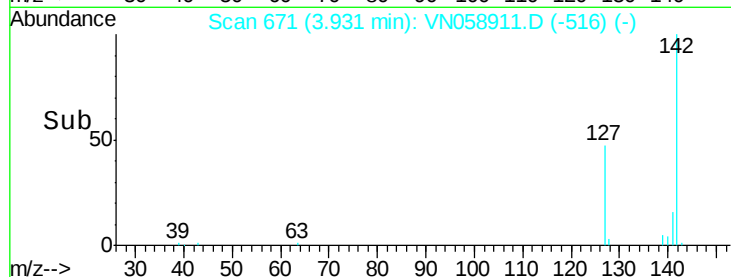
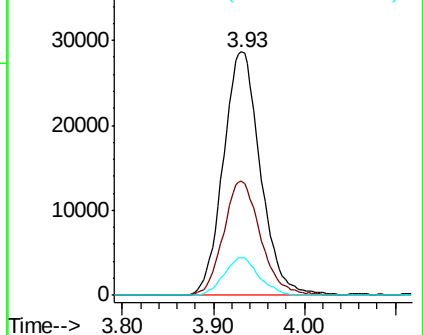
#11  
Methyl Iodide  
Concen: 19.461 ug/l  
RT: 3.93 min Scan# 671  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:142 Resp: 81139  
Ion Ratio Lower Upper  
142 100  
127 46.8 23.5 70.6  
141 15.7 7.4 22.2

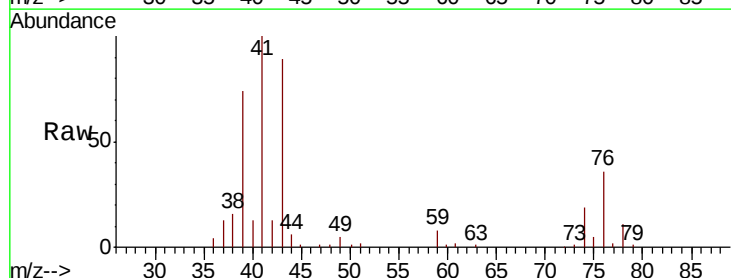


Abundance Ion 142.00 (141.70 to 142.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 141.00 (140.70 to 141.70): V

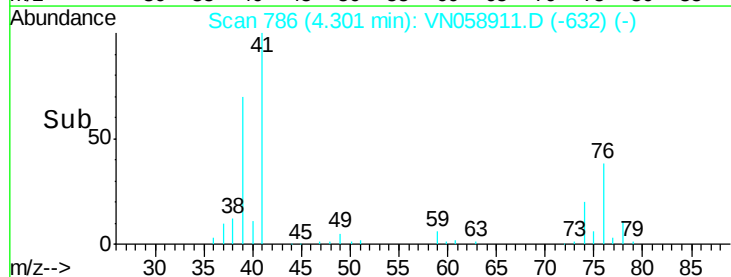
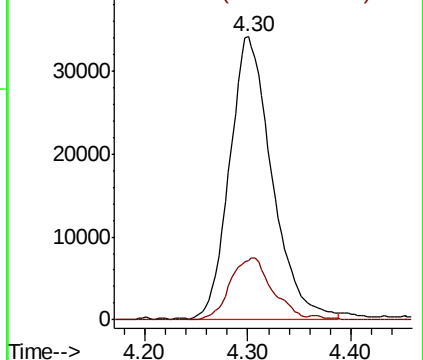


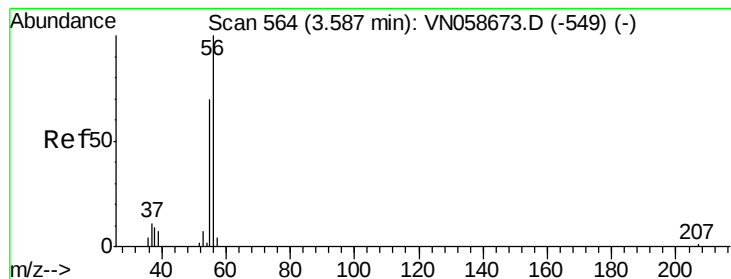
#12  
Methyl Acetate  
Concen: 20.458 ug/l  
RT: 4.30 min Scan# 786  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

Tgt Ion: 43 Resp: 97993  
Ion Ratio Lower Upper  
43 100  
74 21.1 18.1 27.1



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





#13

Acrolein

Concen: 100.886 ug/l

RT: 3.59 min Scan# 564

Delta R.T. -0.00 min

Lab File: VN058911.D

Acq: 22 Oct 2019 16:08

Instrument :

MSVOA\_N

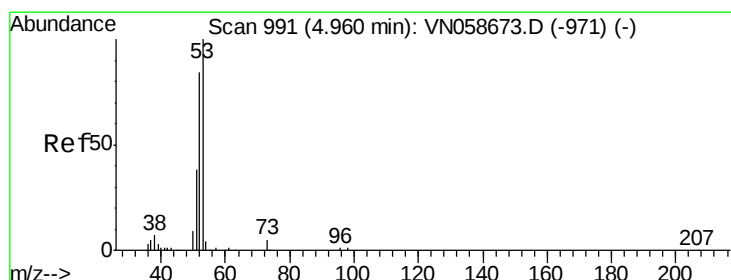
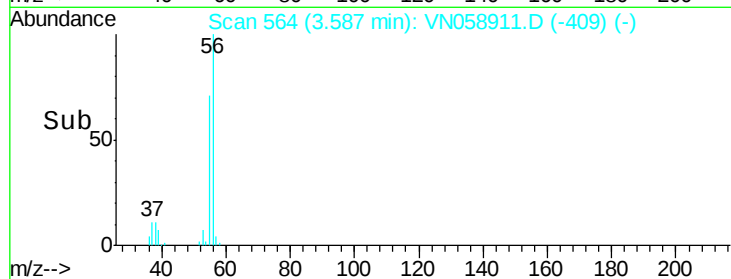
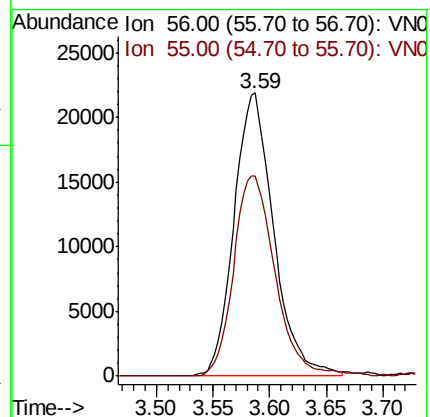
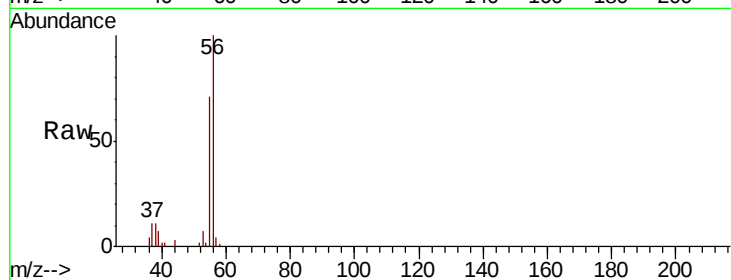
ClientSampleId :

Tot Ion: 56 Resp: 53393

Ion Ratio Lower Upper

56 100

55 73.6 55.9 83.9



#14

Acrylonitrile

Concen: 99.906 ug/l

RT: 4.96 min Scan# 991

Delta R.T. -0.00 min

Lab File: VN058911.D

Acq: 22 Oct 2019 16:08

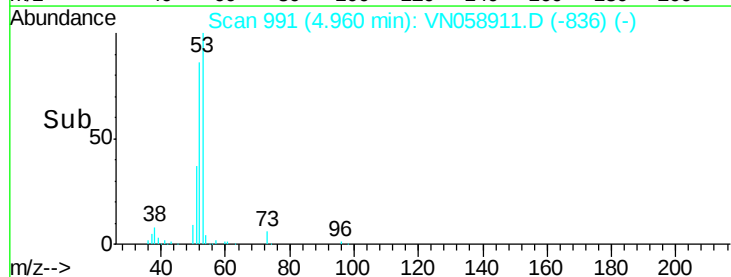
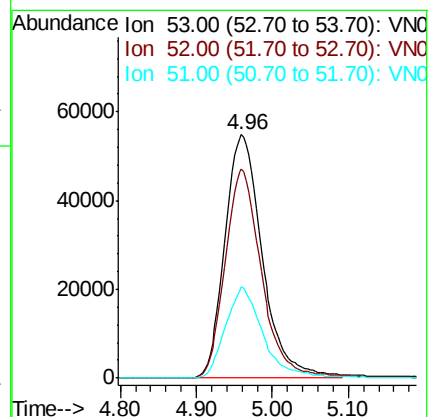
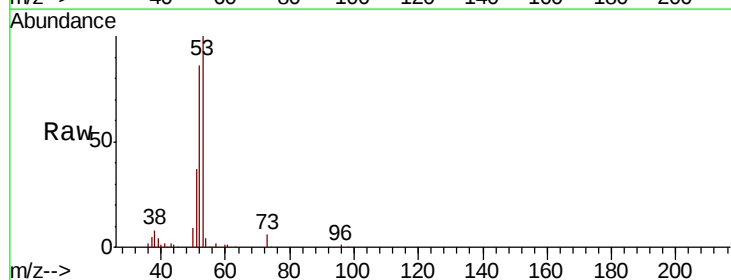
Tgt Ion: 53 Resp: 188557

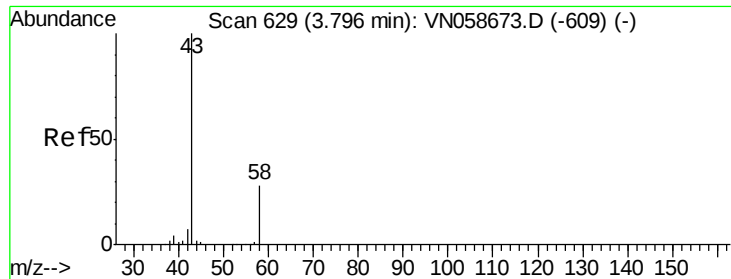
Ion Ratio Lower Upper

53 100

52 82.6 42.2 126.6

51 37.1 18.8 56.4





#15

Acetone

Concen: 115.259 ug/l

RT: 3.80 min Scan# 629

Delta R.T. -0.00 min

Lab File: VN058911.D

Acq: 22 Oct 2019 16:08

Instrument :

MSVOA\_N

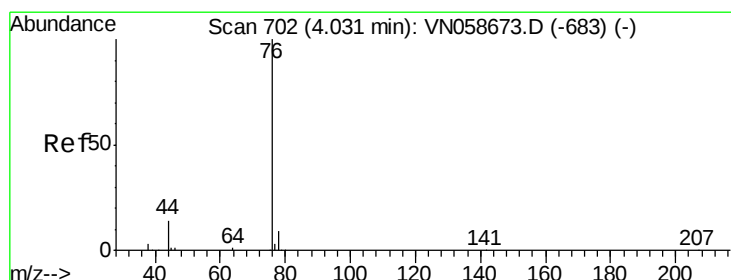
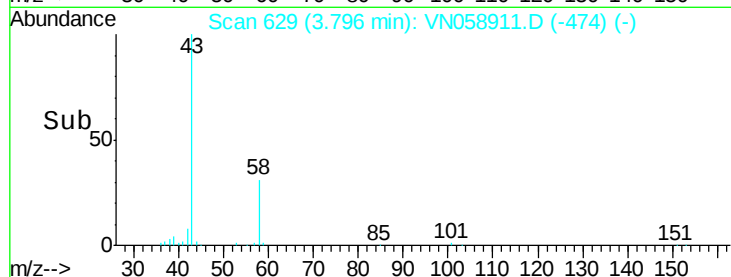
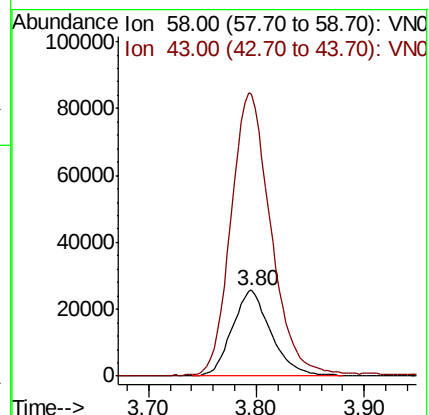
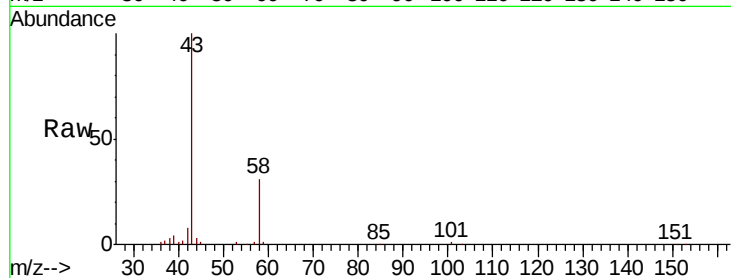
ClientSampleId :

Tot Ion: 58 Resp: 64572

Ion Ratio Lower Upper

58 100

43 325.1 281.7 422.5



#16

Carbon Disulfide

Concen: 19.981 ug/l

RT: 4.03 min Scan# 702

Delta R.T. -0.00 min

Lab File: VN058911.D

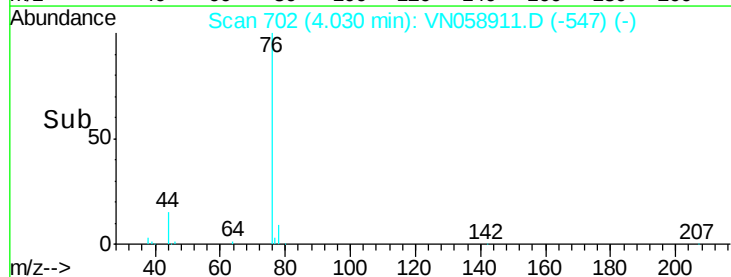
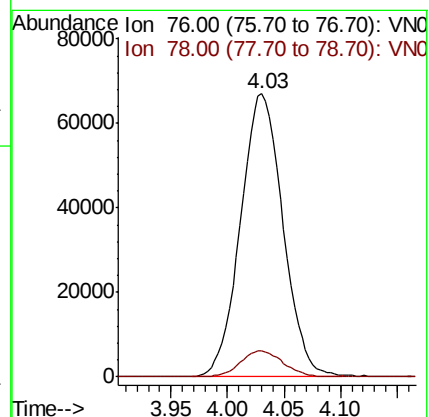
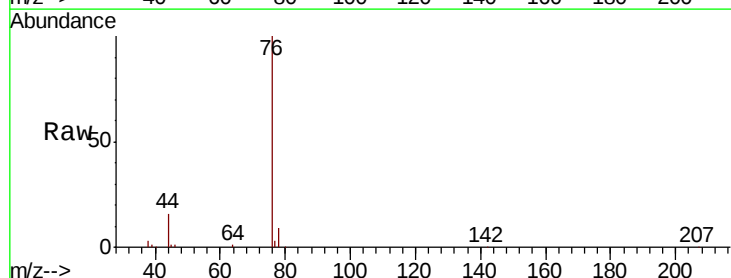
Acq: 22 Oct 2019 16:08

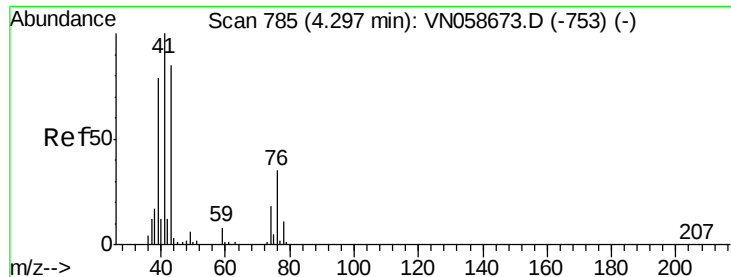
Tgt Ion: 76 Resp: 174475

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.0





#17

Allvl chloride

Concen: 20.079 ug/l

RT: 4.30 min Scan# 785

Delta R.T. -0.00 min

Lab File: VN058911.D

Acq: 22 Oct 2019 16:08

Instrument :

MSVOA\_N

ClientSampled :

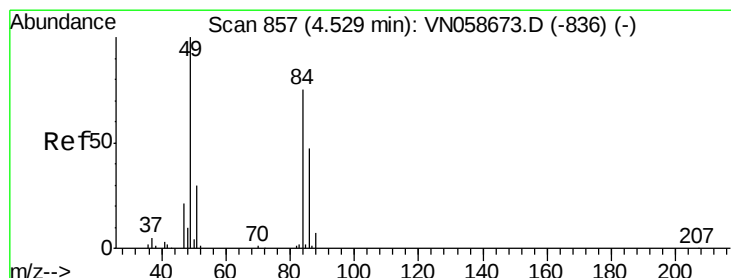
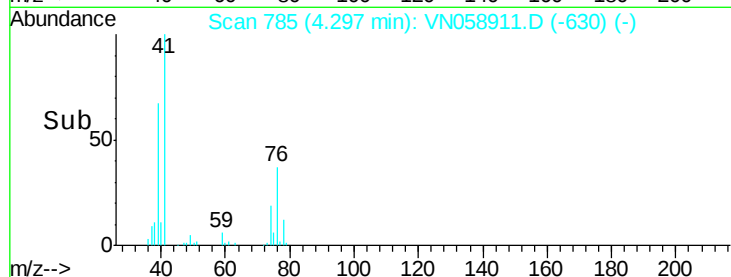
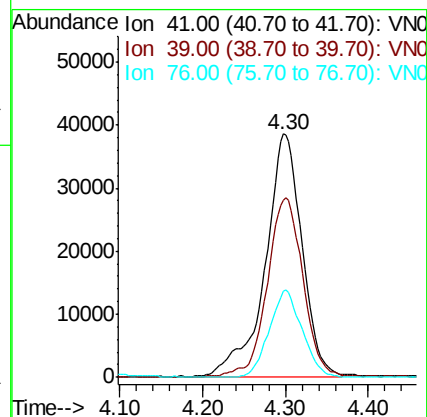
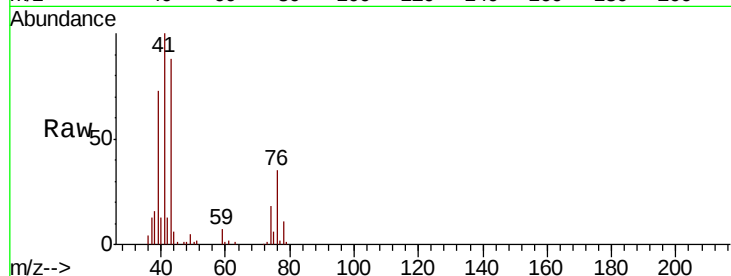
Tot Ion: 41 Resp: 119644

Ion Ratio Lower Upper

41 100

39 72.8 39.6 118.8

76 35.4 17.6 52.9



#18

Methylene Chloride

Concen: 20.256 ug/l

RT: 4.53 min Scan# 857

Delta R.T. -0.00 min

Lab File: VN058911.D

Acq: 22 Oct 2019 16:08

Tgt Ion: 84 Resp: 73434

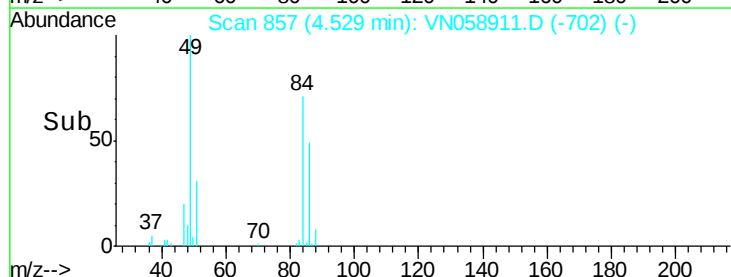
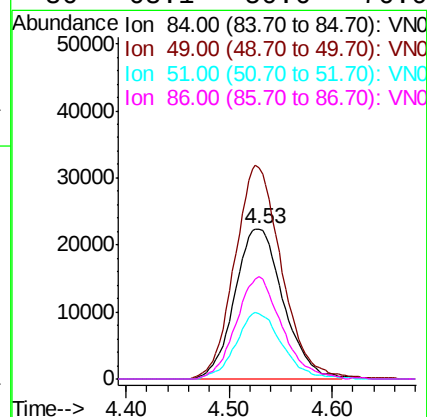
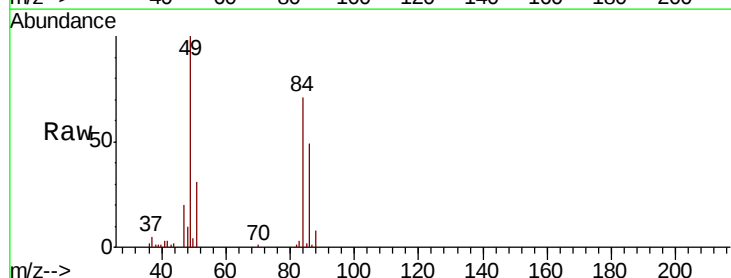
Ion Ratio Lower Upper

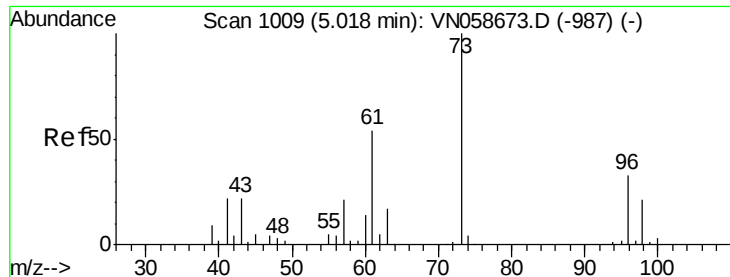
84 100

49 139.1 106.6 160.0

51 43.1 32.4 48.6

86 68.1 50.6 76.0

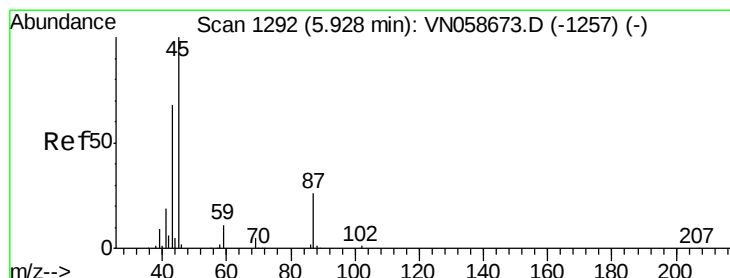
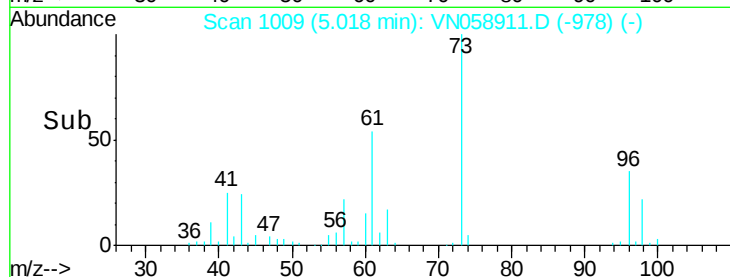
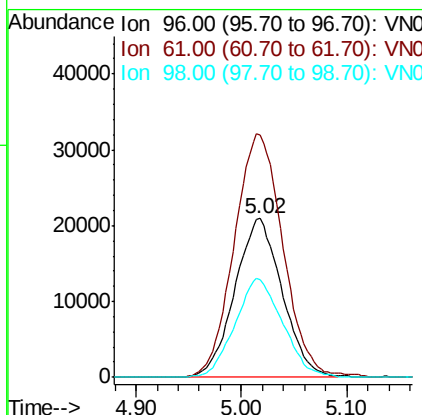
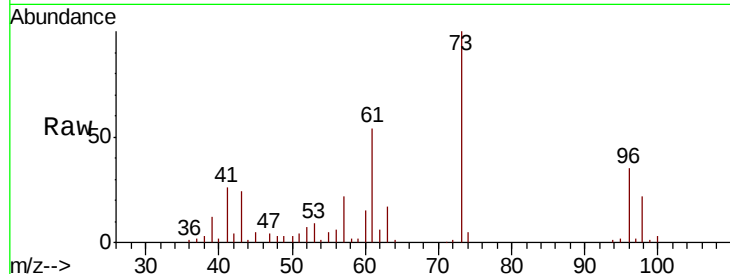




#19  
trans-1,2-Dichloroethene  
Concen: 20.041 ug/l  
RT: 5.02 min Scan# 1009  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

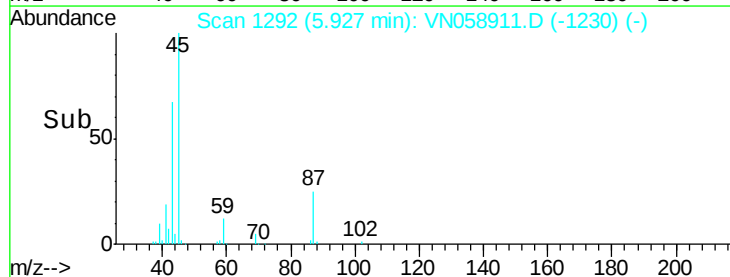
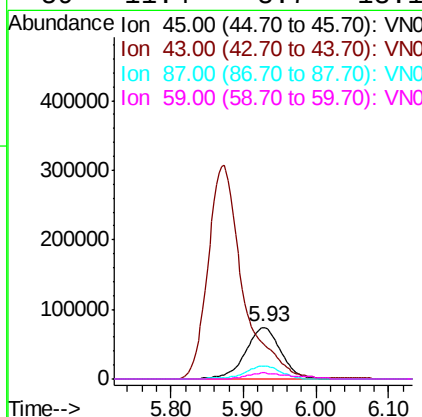
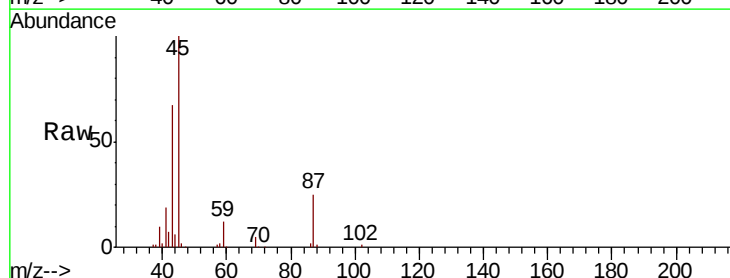
Instrument :  
MSVOA\_N  
ClientSampled :

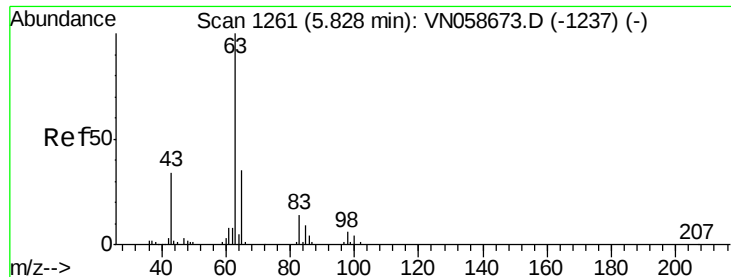
Tot Ion: 96 Resp: 65317  
Ion Ratio Lower Upper  
96 100  
61 151.4 131.8 197.6  
98 61.3 52.6 79.0



#20  
Diisopropyl ether  
Concen: 20.551 ug/l  
RT: 5.93 min Scan# 1292  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

Tgt Ion: 45 Resp: 249505  
Ion Ratio Lower Upper  
45 100  
43 65.8 54.7 82.1  
87 25.1 21.5 32.3  
59 11.4 8.7 13.1

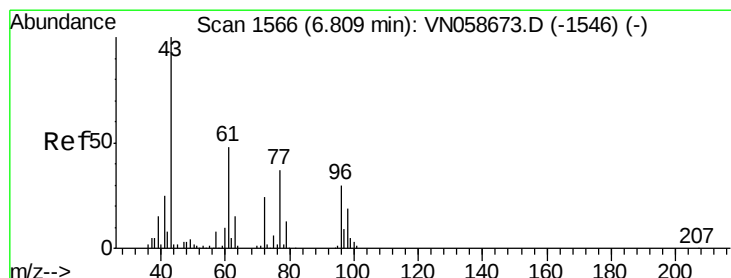
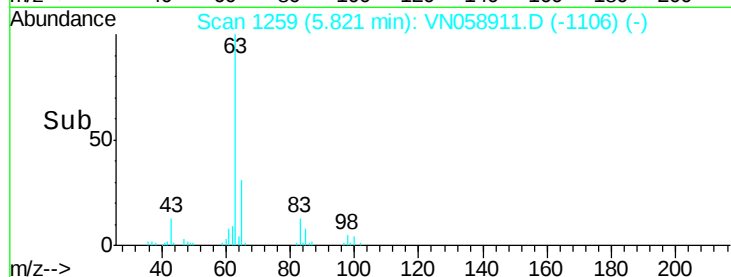
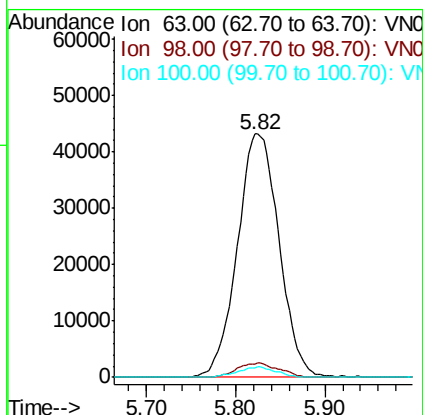
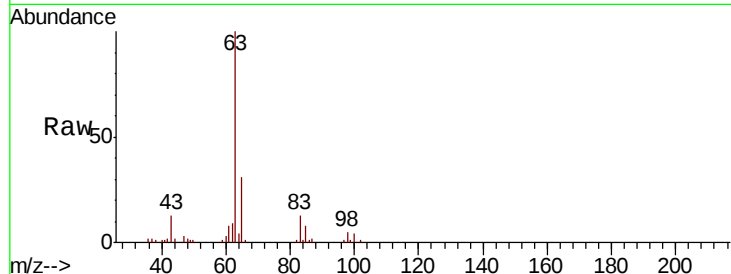




#21  
 1,1-Dichloroethane  
 Concen: 20.799 ug/l  
 RT: 5.82 min Scan# 1259  
 Delta R.T. -0.01 min  
 Lab File: VN058911.D  
 Acq: 22 Oct 2019 16:08

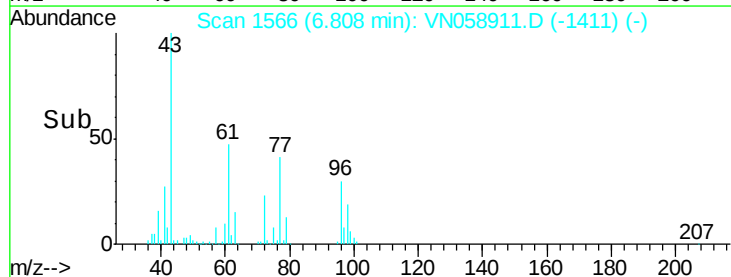
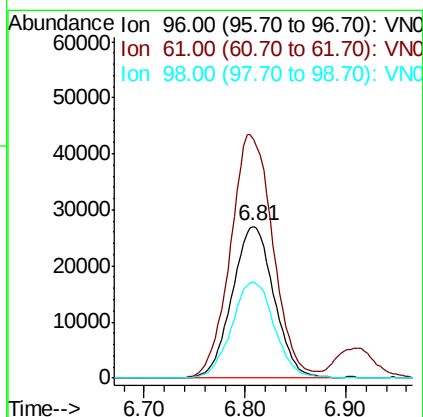
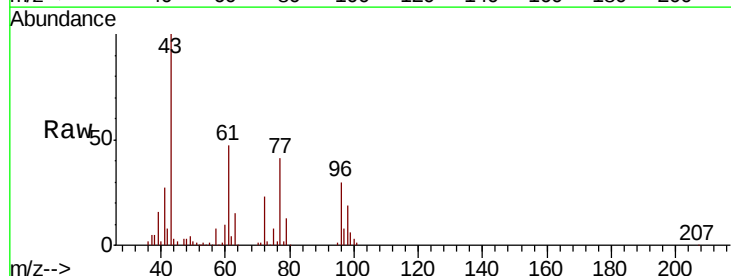
Instrument :  
 MSVOA\_N  
 ClientSampleId :

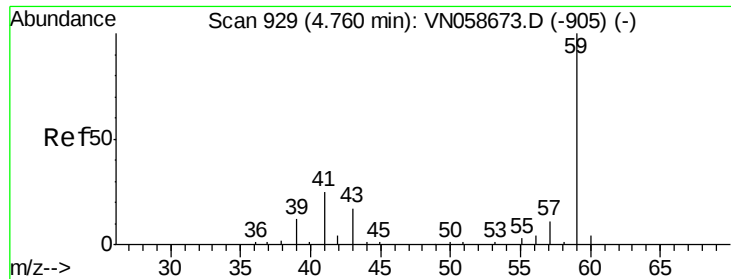
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 98      | 5.5   | 2.9   | 8.6   |
| 100     | 4.0   | 1.8   | 5.5   |



#22  
 cis-1,2-Dichloroethene  
 Concen: 20.001 ug/l  
 RT: 6.81 min Scan# 1566  
 Delta R.T. -0.00 min  
 Lab File: VN058911.D  
 Acq: 22 Oct 2019 16:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 163.4 | 127.2 | 190.8 |
| 98      | 64.6  | 50.5  | 75.7  |



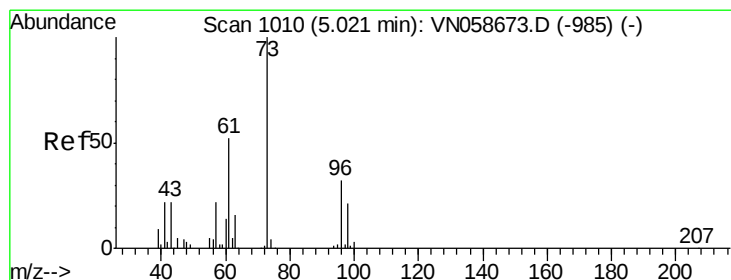
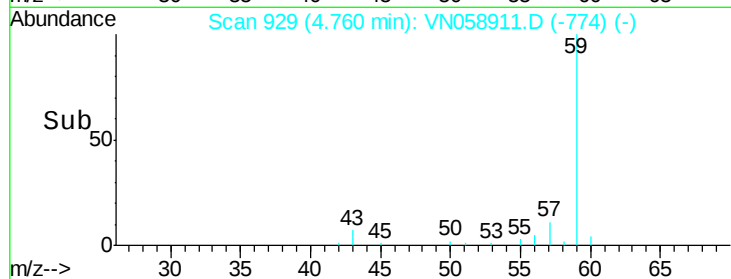
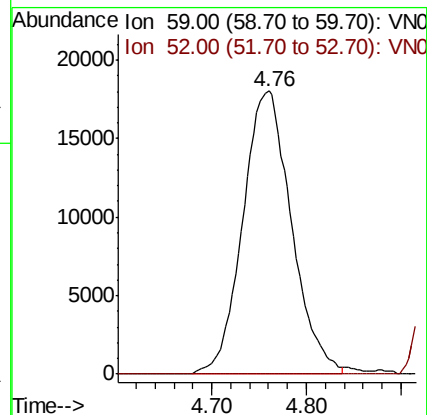
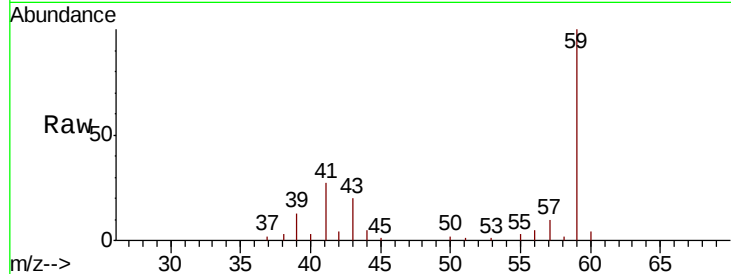


#23

tert-Butyl Alcohol  
 Concen: 83.524 ug/l  
 RT: 4.76 min Scan# 929  
 Delta R.T. -0.00 min  
 Lab File: VN058911.D  
 Acq: 22 Oct 2019 16:08

Instrument :  
 MSVOA\_N  
 ClientSampled :

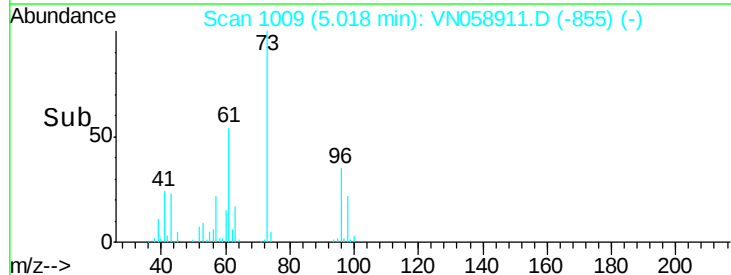
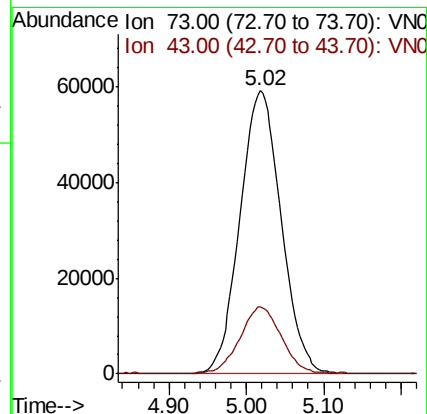
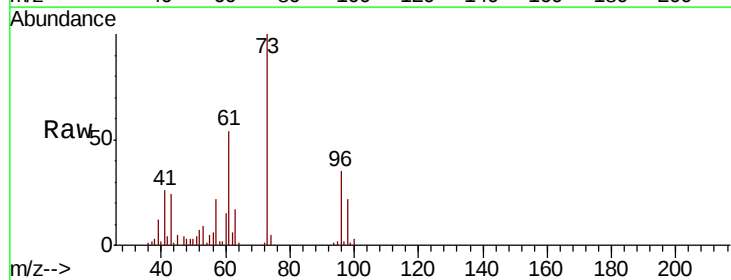
Tot Ion: 59 Resp: 64478  
 Ion Ratio Lower Upper  
 59 100  
 52 0.0 0.0 0.0

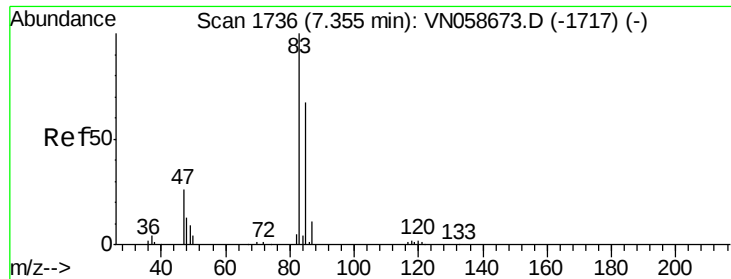


#24

Methyl tert-Butyl Ether  
 Concen: 19.639 ug/l  
 RT: 5.02 min Scan# 1009  
 Delta R.T. -0.00 min  
 Lab File: VN058911.D  
 Acq: 22 Oct 2019 16:08

Tgt Ion: 73 Resp: 219341  
 Ion Ratio Lower Upper  
 73 100  
 43 24.0 17.9 26.9

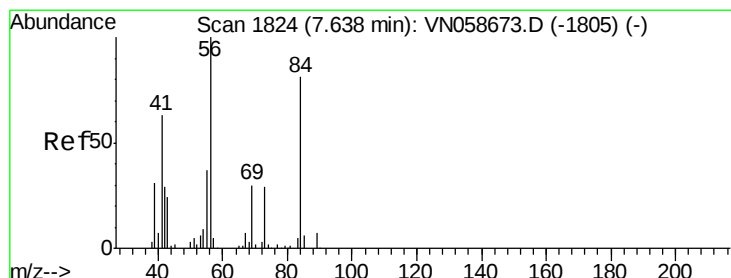
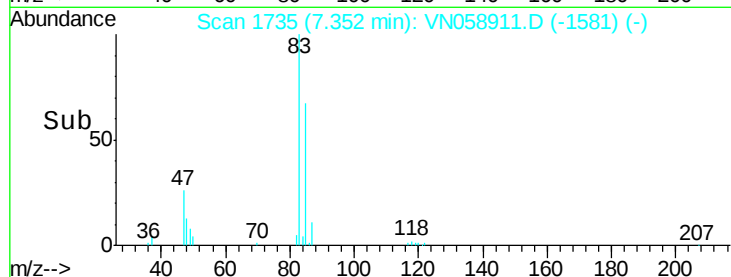
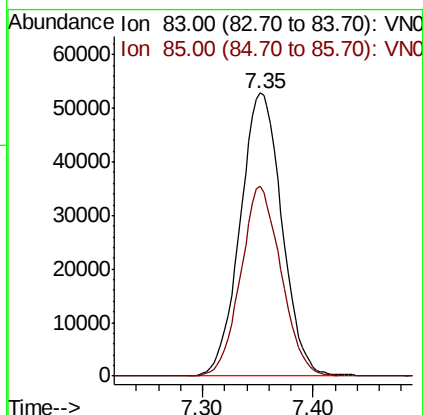
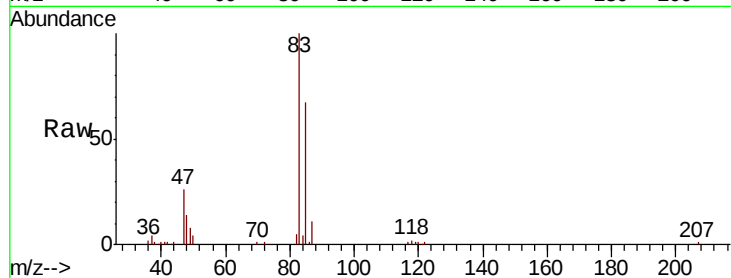




#25  
Chloroform  
Concen: 20.659 ug/l  
RT: 7.35 min Scan# 1735  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

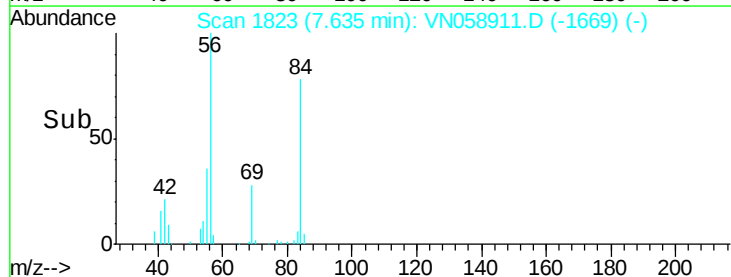
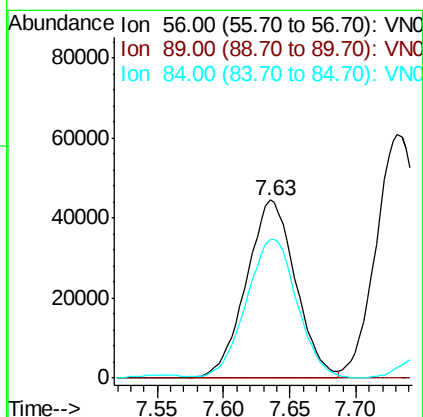
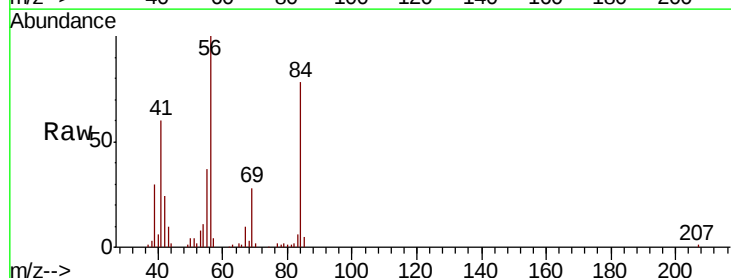
Instrument :  
MSVOA\_N  
ClientSampled :

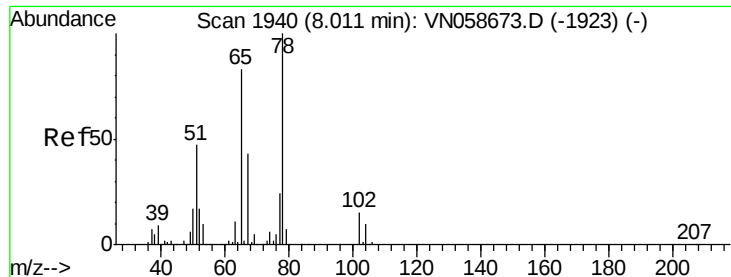
Tot Ion: 83 Resp: 138514  
Ion Ratio Lower Upper  
83 100  
85 67.1 53.8 80.8



#26  
Cyclohexane  
Concen: 19.530 ug/l  
RT: 7.63 min Scan# 1823  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

Tgt Ion: 56 Resp: 115241  
Ion Ratio Lower Upper  
56 100  
89 0.0 6.2 9.2#  
84 80.5 65.6 98.4





#27

1,2-Dichloroethane-d4

Concen: 30.563 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. -0.00 min

Lab File: VN058911.D

Acq: 22 Oct 2019 16:08

Instrument :

MSVOA\_N

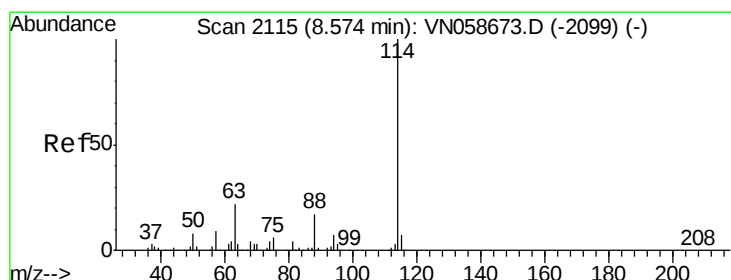
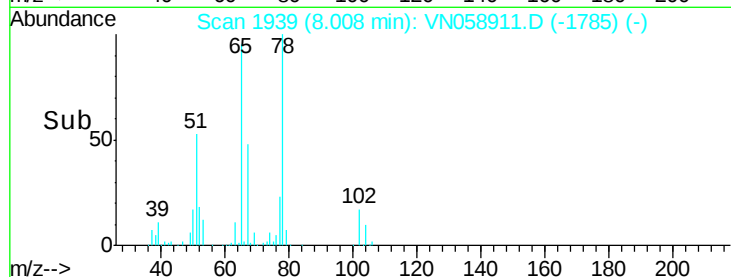
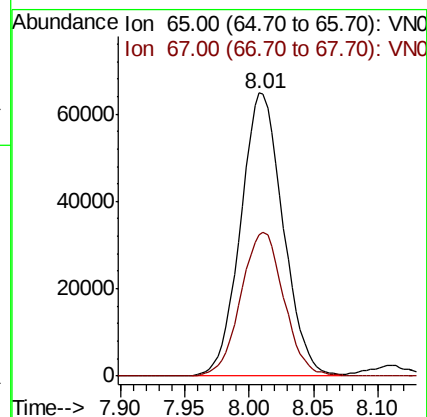
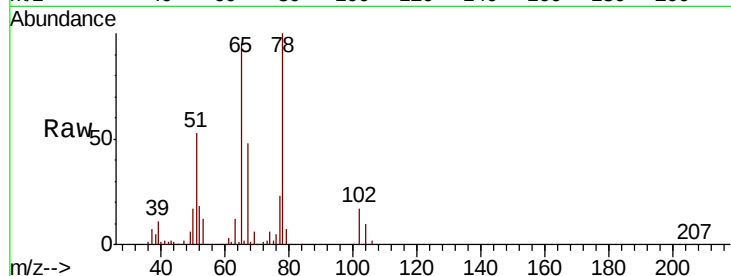
ClientSampleId :

Tot Ion: 65 Resp: 148428

Ion Ratio Lower Upper

65 100

67 51.6 41.5 62.3



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.57 min Scan# 2114

Delta R.T. -0.00 min

Lab File: VN058911.D

Acq: 22 Oct 2019 16:08

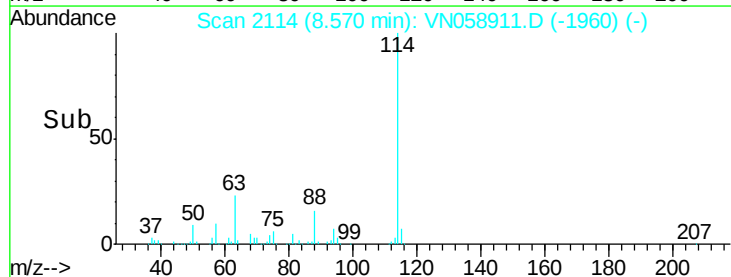
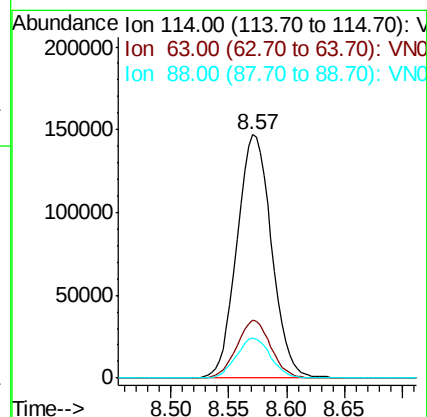
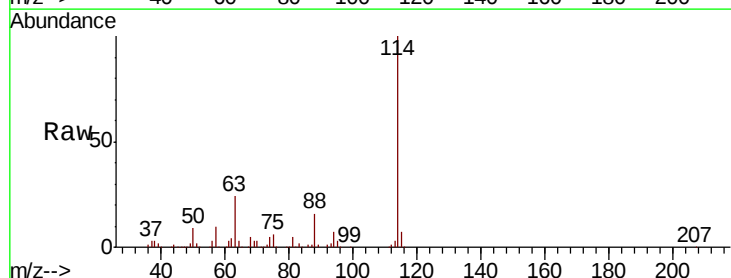
Tgt Ion: 114 Resp: 304630

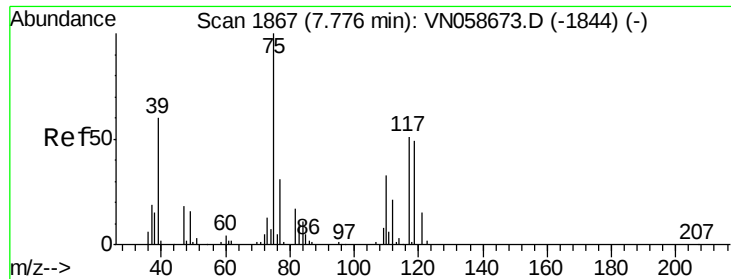
Ion Ratio Lower Upper

114 100

63 23.2 18.1 27.1

88 16.2 13.0 19.4

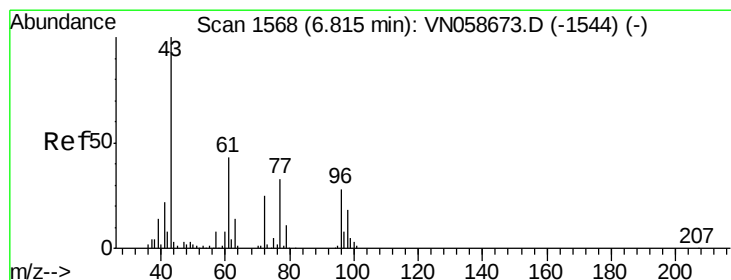
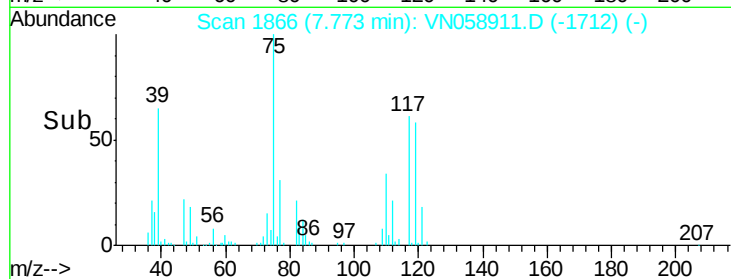
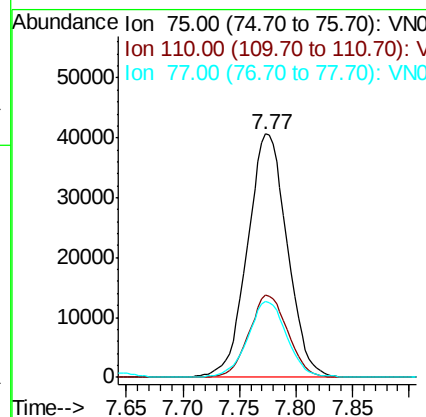
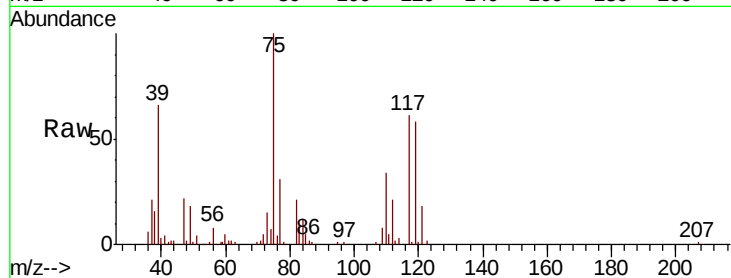




#29  
 1,1-Dichloropropene  
 Concen: 20.701 ug/l  
 RT: 7.77 min Scan# 1866  
 Delta R.T. -0.00 min  
 Lab File: VN058911.D  
 Acq: 22 Oct 2019 16:08

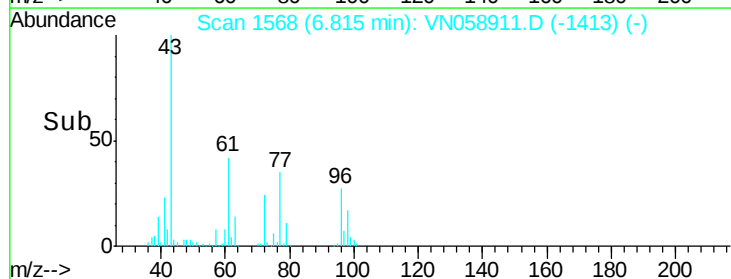
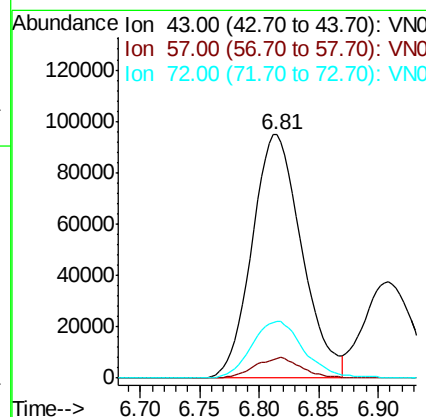
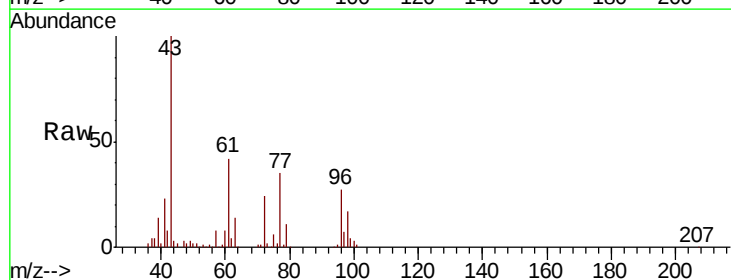
Instrument :  
 MSVOA\_N  
 ClientSampled :

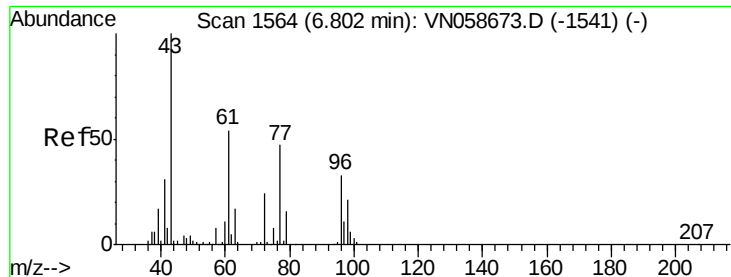
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 32.9  | 0.0   | 64.6  |
| 77      | 30.9  | 0.0   | 60.8  |



#30  
 2-Butanone  
 Concen: 100.679 ug/l  
 RT: 6.81 min Scan# 1568  
 Delta R.T. -0.00 min  
 Lab File: VN058911.D  
 Acq: 22 Oct 2019 16:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 57      | 8.0   | 6.5   | 9.7   |
| 72      | 24.6  | 20.1  | 30.1  |





#31

2,2-Dichloropropane

Concen: 21.626 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VN058911.D

Acq: 22 Oct 2019 16:08

Instrument :

MSVOA\_N

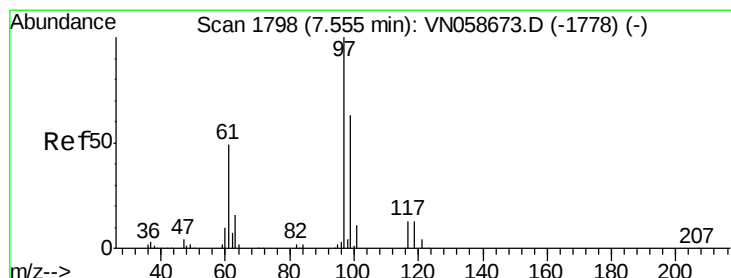
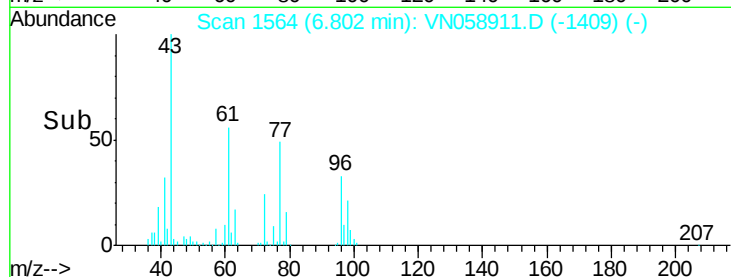
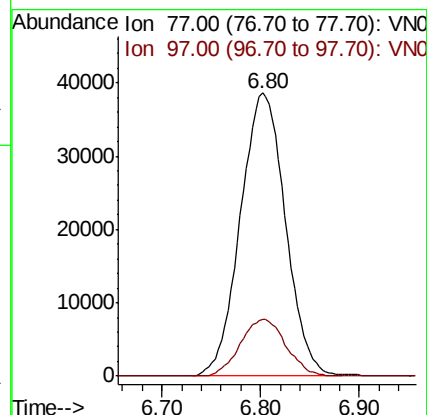
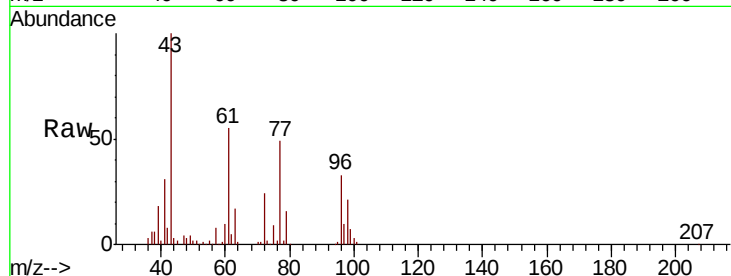
ClientSampled :

Tot Ion: 77 Resp: 122229

Ion Ratio Lower Upper

77 100

97 20.3 17.9 26.9



#32

1,1,1-Trichloroethane

Concen: 21.577 ug/l

RT: 7.55 min Scan# 1798

Delta R.T. -0.00 min

Lab File: VN058911.D

Acq: 22 Oct 2019 16:08

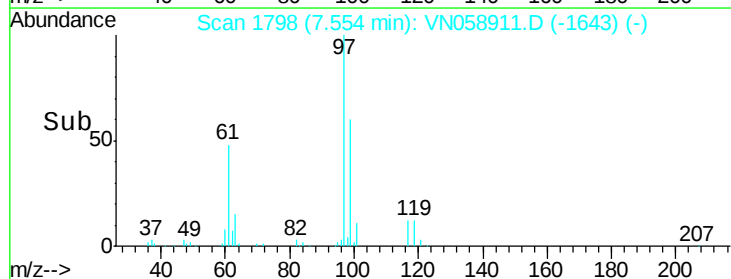
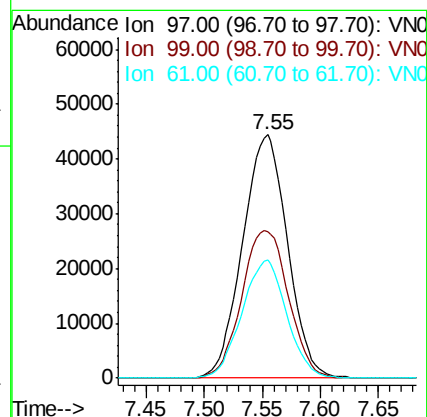
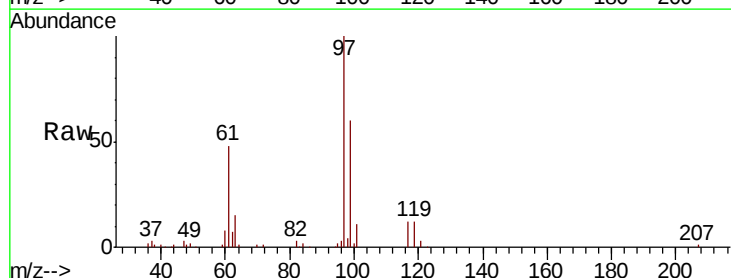
Tgt Ion: 97 Resp: 119673

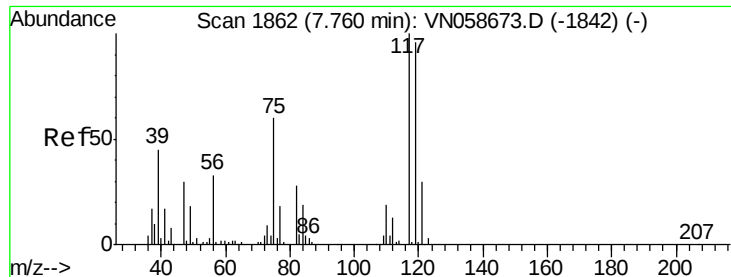
Ion Ratio Lower Upper

97 100

99 63.0 51.3 76.9

61 48.4 38.4 57.6

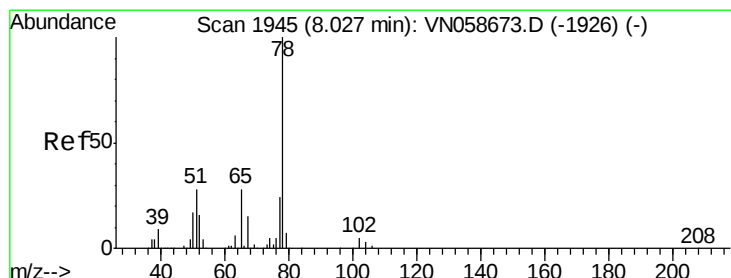
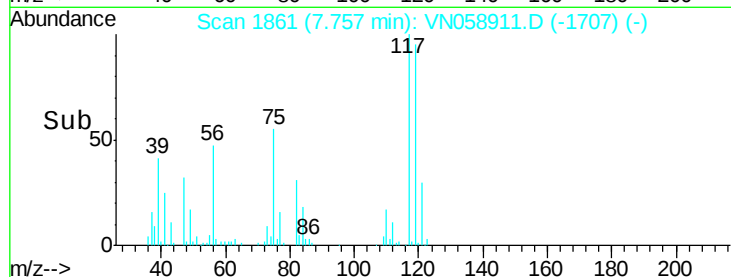
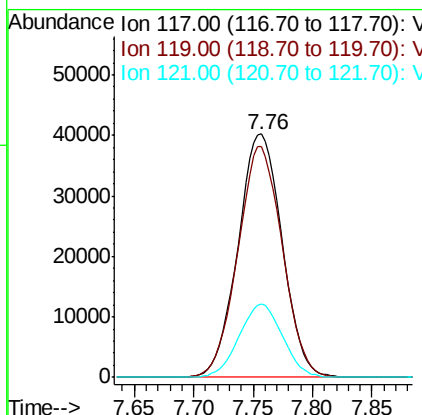
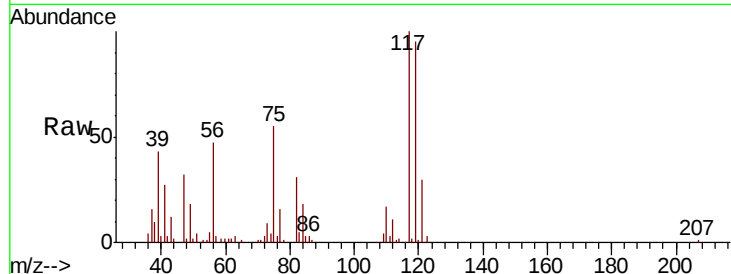




#33  
Carbon Tetrachloride  
Concen: 21.543 ug/l  
RT: 7.76 min Scan# 1861  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

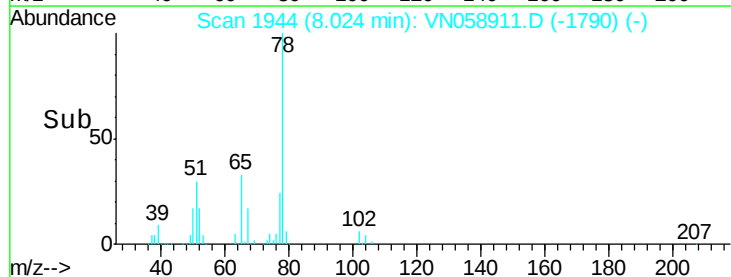
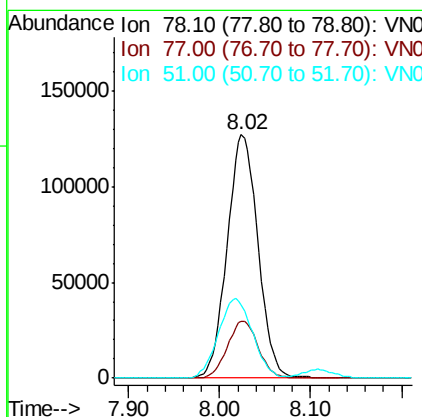
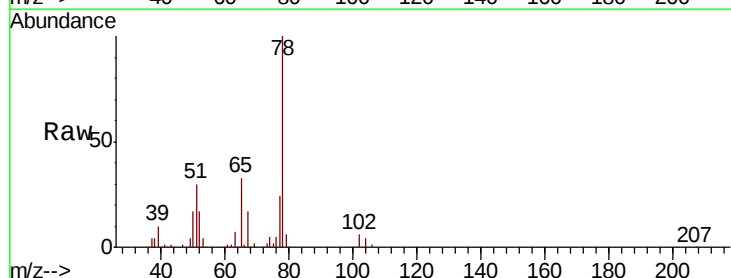
Instrument :  
MSVOA\_N  
ClientSampleId :

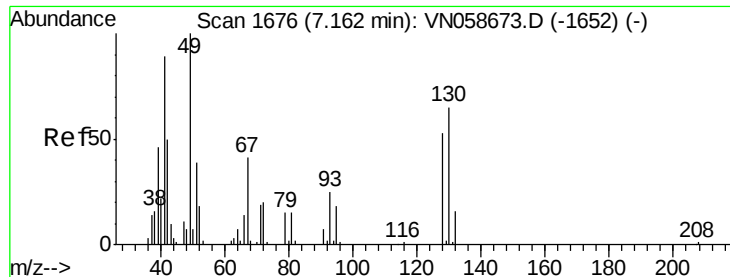
Tot Ion:117 Resp: 103421  
Ion Ratio Lower Upper  
117 100  
119 94.8 76.9 115.3  
121 30.4 23.8 35.8



#34  
Benzene  
Concen: 21.220 ug/l  
RT: 8.02 min Scan# 1944  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

Tgt Ion: 78 Resp: 299566  
Ion Ratio Lower Upper  
78 100  
77 23.5 19.2 28.8  
51 29.7 22.1 33.1

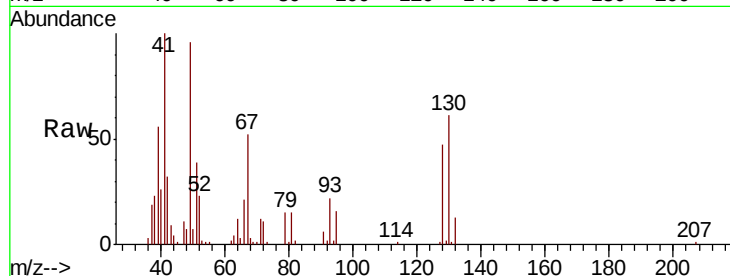




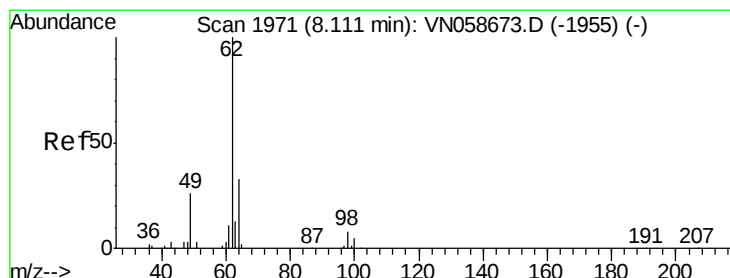
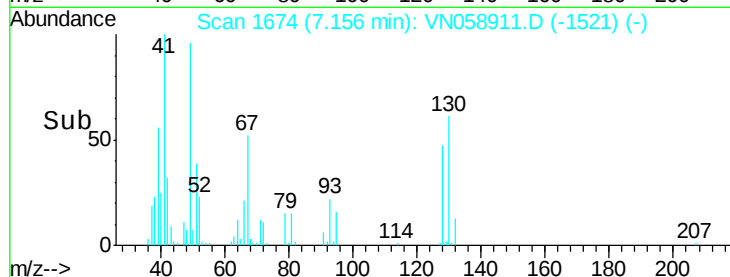
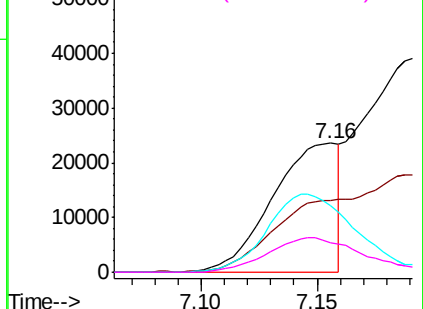
#35  
Methacrylonitrile  
Concen: 19.436 ug/l  
RT: 7.16 min Scan# 1674  
Delta R.T. -0.01 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 41 Resp: 46526  
Ion Ratio Lower Upper  
41 100  
39 55.2 25.8 77.4  
67 51.8 23.0 69.0  
52 23.2 10.1 30.1

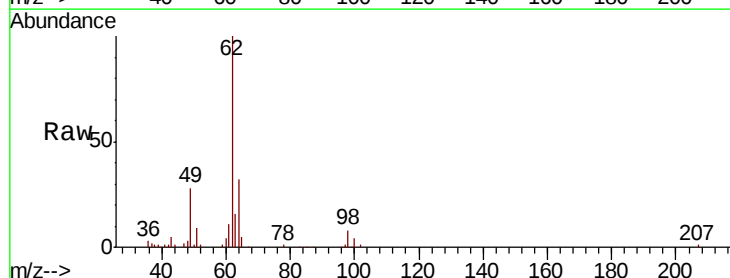


Abundance Ion 41.00 (40.70 to 41.70): VN0  
Ion 39.00 (38.70 to 39.70): VN0  
Ion 67.00 (66.70 to 67.70): VN0  
Ion 52.00 (51.70 to 52.70): VN0

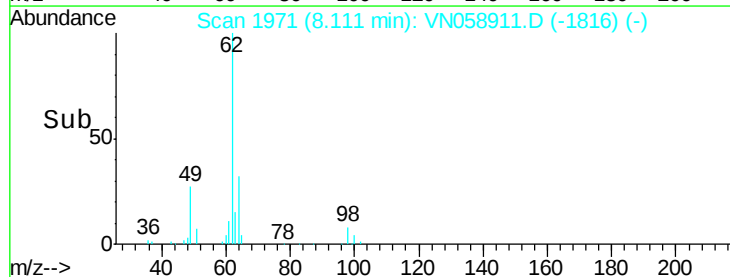
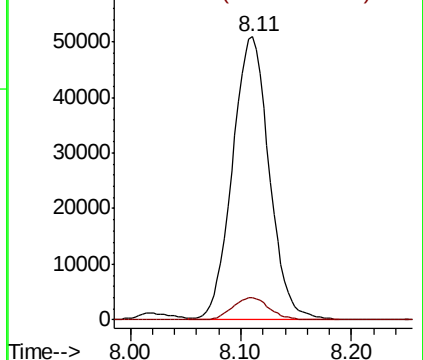


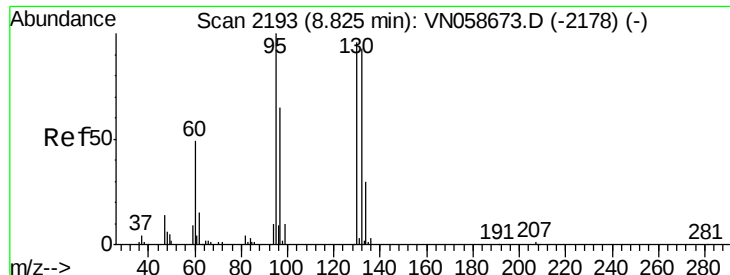
#36  
1,2-Dichloroethane  
Concen: 21.694 ug/l  
RT: 8.11 min Scan# 1971  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

Tgt Ion: 62 Resp: 117097  
Ion Ratio Lower Upper  
62 100  
98 7.9 6.4 9.6



Abundance Ion 62.00 (61.70 to 62.70): VN0  
Ion 98.00 (97.70 to 98.70): VN0

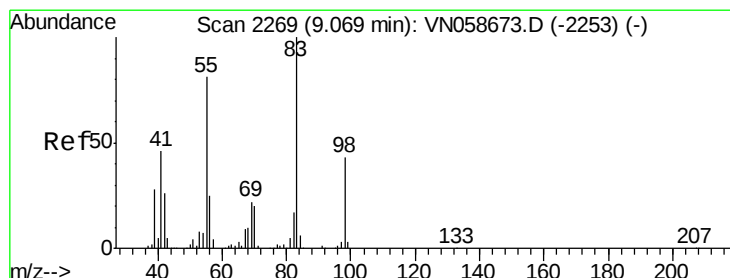
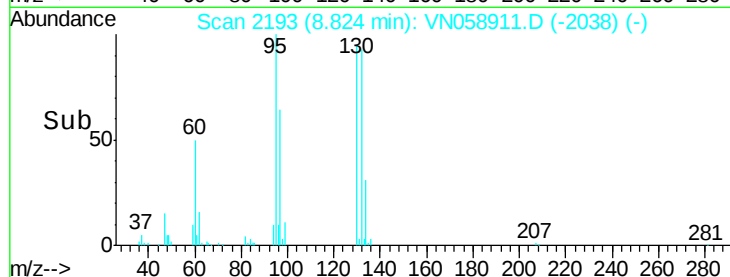
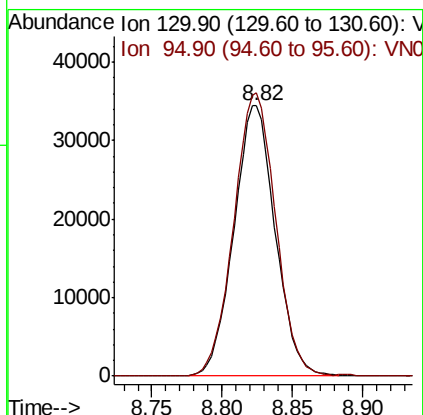
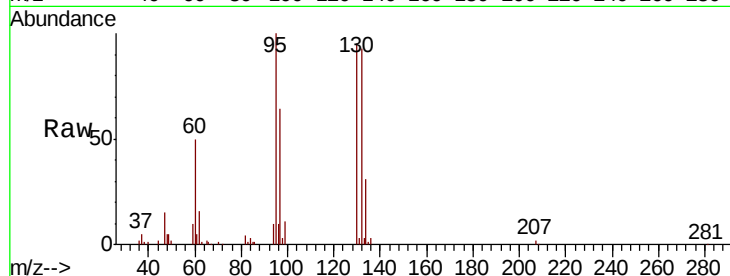




#37  
 Trichloroethene  
 Concen: 20.395 ug/l  
 RT: 8.82 min Scan# 2193  
 Delta R.T. -0.00 min  
 Lab File: VN058911.D  
 Acq: 22 Oct 2019 16:08

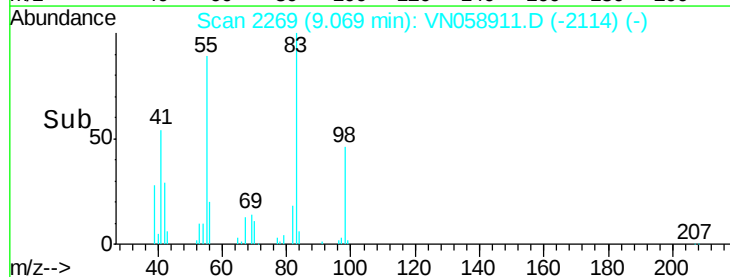
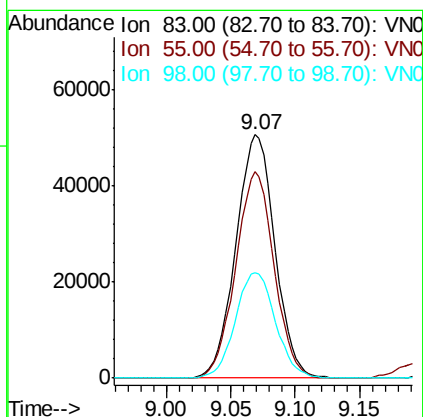
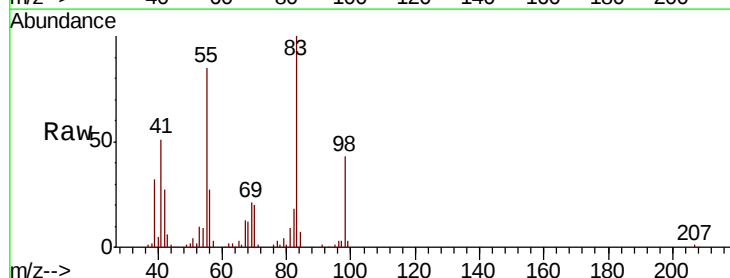
Instrument :  
 MSVOA\_N  
 ClientSampleId :

Tot Ion:130 Resp: 70734  
 Ion Ratio Lower Upper  
 130 100  
 95 104.7 83.2 124.8



#38  
 Methylcyclohexane  
 Concen: 19.177 ug/l  
 RT: 9.07 min Scan# 2269  
 Delta R.T. -0.00 min  
 Lab File: VN058911.D  
 Acq: 22 Oct 2019 16:08

Tgt Ion: 83 Resp: 106621  
 Ion Ratio Lower Upper  
 83 100  
 55 83.5 40.4 121.1  
 98 44.5 21.6 65.0

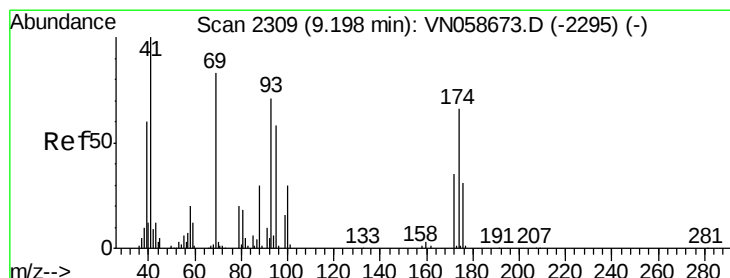
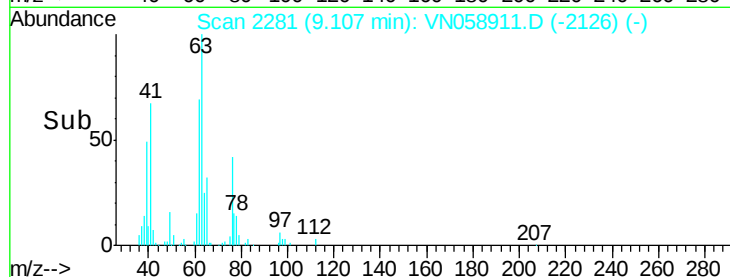
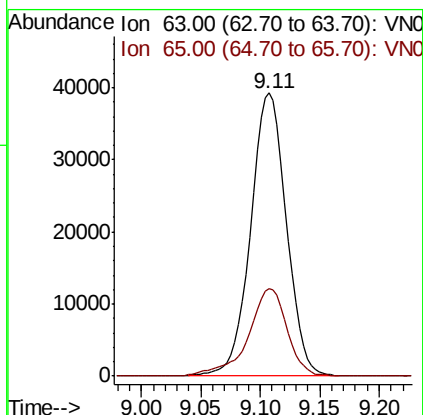
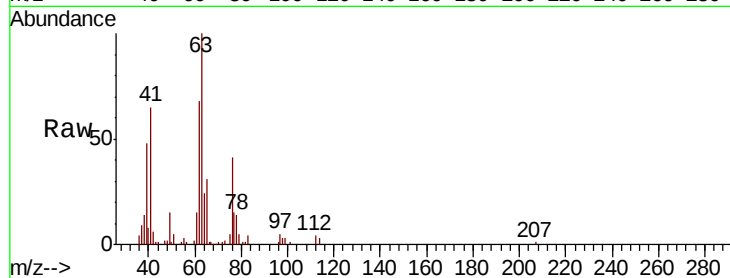




#39  
 1,2-Dichloropropane  
 Concen: 21.174 ug/l  
 RT: 9.11 min Scan# 2281  
 Delta R.T. -0.00 min  
 Lab File: VN058911.D  
 Acq: 22 Oct 2019 16:08

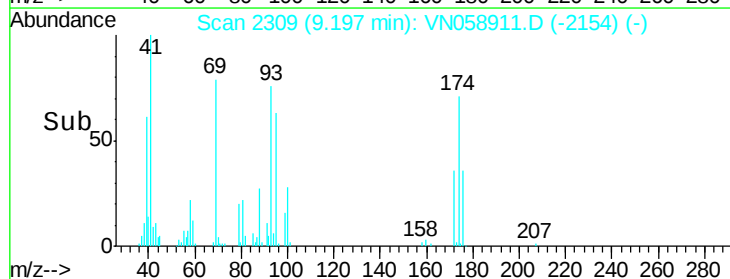
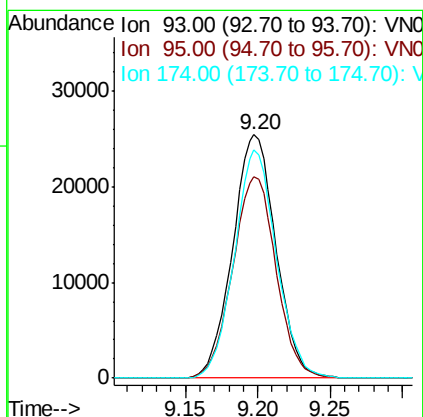
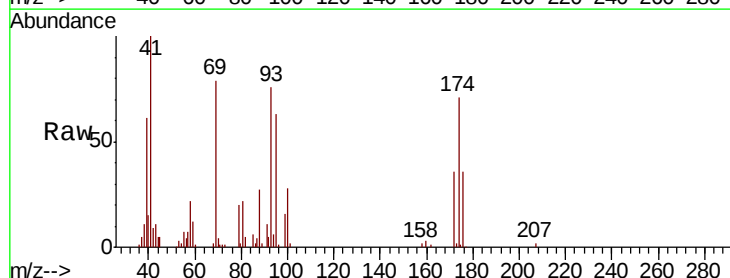
Instrument :  
 MSVOA\_N  
 ClientSampleId :

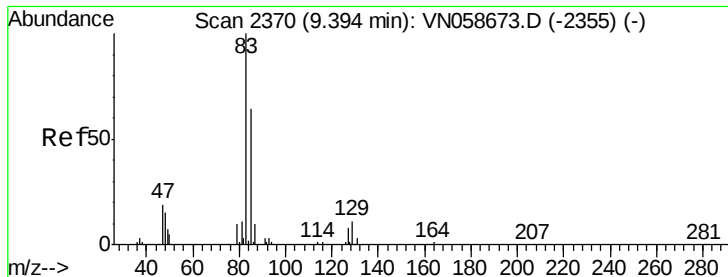
Tot Ion: 63 Resp: 81690  
 Ion Ratio Lower Upper  
 63 100  
 65 30.8 23.8 35.6



#40  
 Dibromomethane  
 Concen: 21.600 ug/l  
 RT: 9.20 min Scan# 2309  
 Delta R.T. -0.00 min  
 Lab File: VN058911.D  
 Acq: 22 Oct 2019 16:08

Tgt Ion: 93 Resp: 52608  
 Ion Ratio Lower Upper  
 93 100  
 95 83.2 0.0 167.6  
 174 91.4 0.0 187.2





#41

Bromodichloromethane

Concen: 21.607 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. -0.00 min

Lab File: VN058911.D

Acq: 22 Oct 2019 16:08

Instrument :

MSVOA\_N

ClientSampleId :

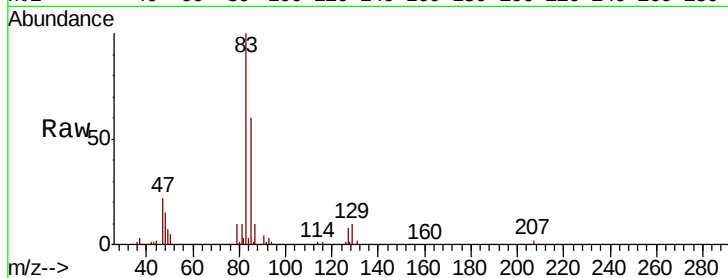
Tot Ion: 83 Resp: 107510

Ion Ratio Lower Upper

83 100

85 60.1 51.0 76.4

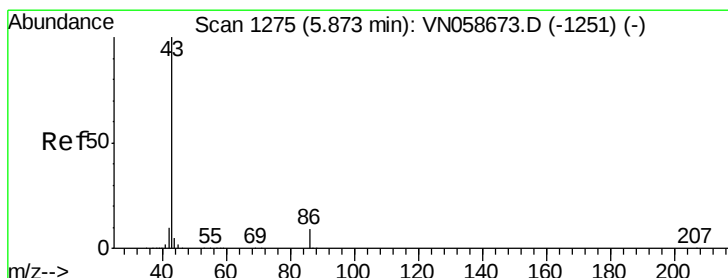
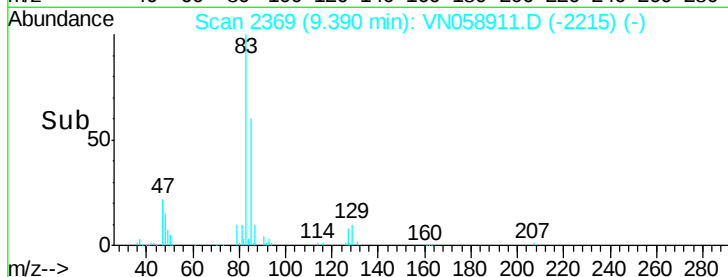
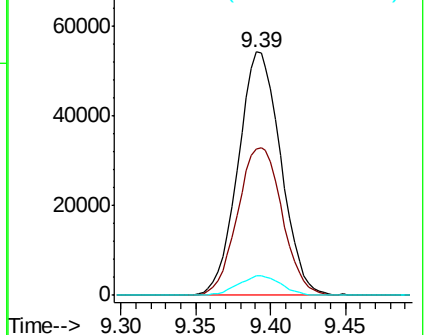
127 8.1 6.6 9.8



Abundance Ion 83.00 (82.70 to 83.70): VN058911.D (-2215) (-)

Ion 85.00 (84.70 to 85.70): VN058911.D (-2215) (-)

Ion 127.00 (126.70 to 127.70): VN058911.D (-2215) (-)



#42

Vinyl Acetate

Concen: 107.984 ug/l

RT: 5.87 min Scan# 1275

Delta R.T. -0.00 min

Lab File: VN058911.D

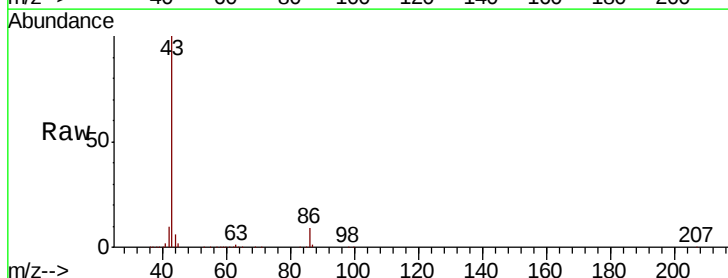
Acq: 22 Oct 2019 16:08

Tgt Ion: 43 Resp: 1024813

Ion Ratio Lower Upper

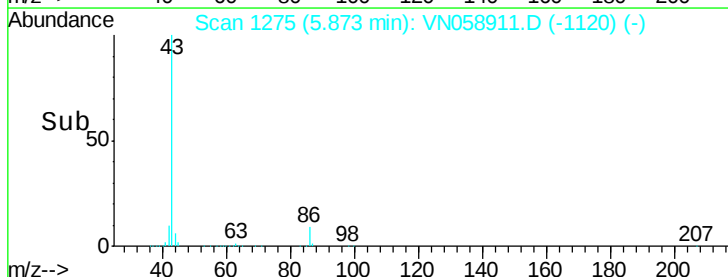
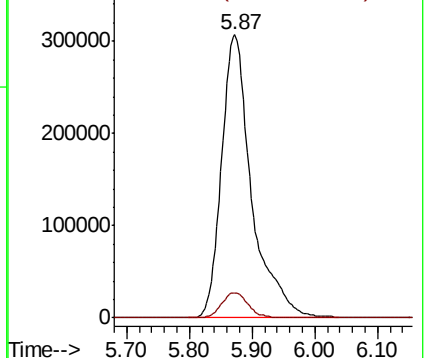
43 100

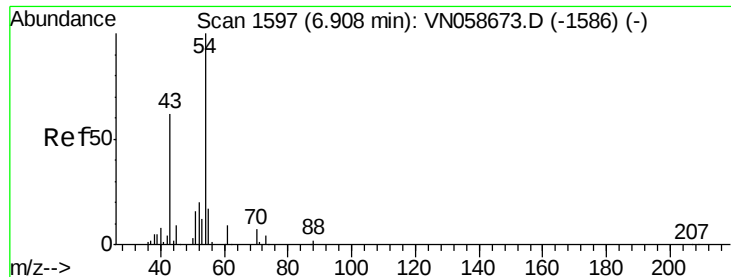
86 7.9 6.5 9.7



Abundance Ion 43.00 (42.70 to 43.70): VN058911.D (-1120) (-)

Ion 86.00 (85.70 to 86.70): VN058911.D (-1120) (-)

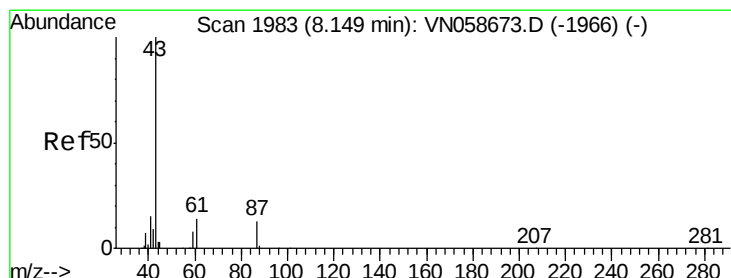
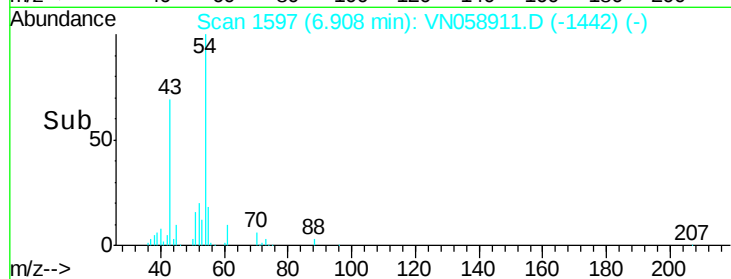
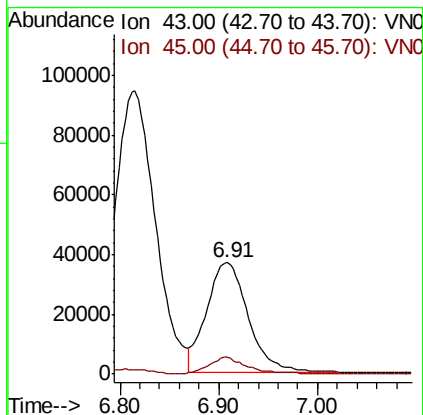
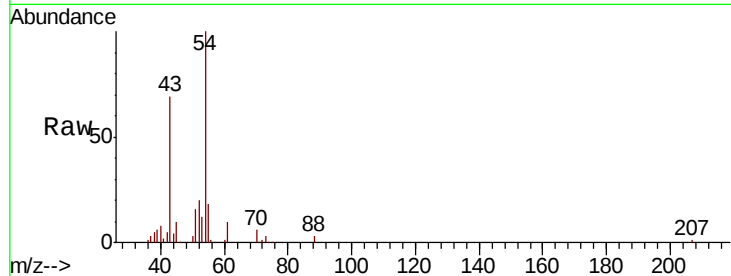




#43  
Ethyl Acetate  
Concen: 20.338 ug/l  
RT: 6.91 min Scan# 1597  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

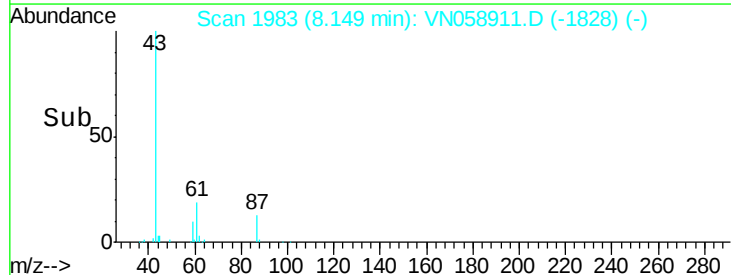
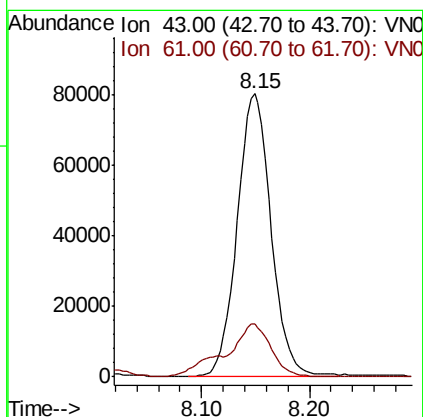
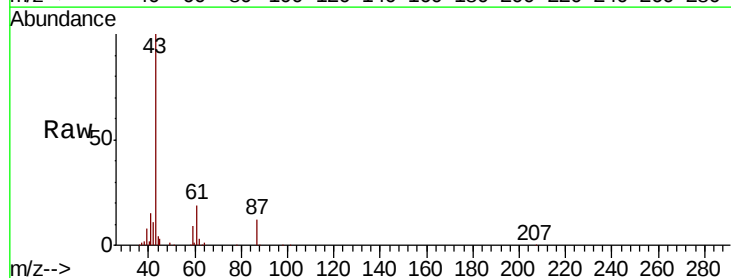
Instrument :  
MSVOA\_N  
ClientSampled :

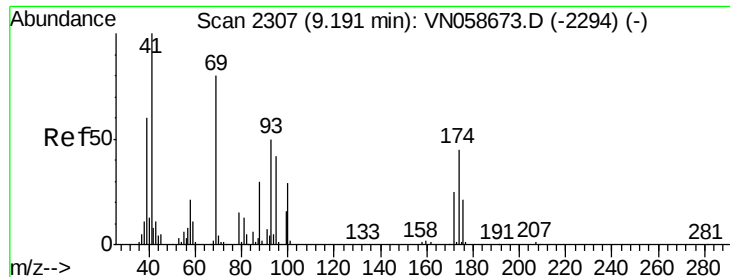
Tot Ion: 43 Resp: 108171  
Ion Ratio Lower Upper  
43 100  
45 12.8 9.7 14.5



#44  
Isopropyl Acetate  
Concen: 20.290 ug/l  
RT: 8.15 min Scan# 1983  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

Tgt Ion: 43 Resp: 174803  
Ion Ratio Lower Upper  
43 100  
61 18.6 19.9 29.9#



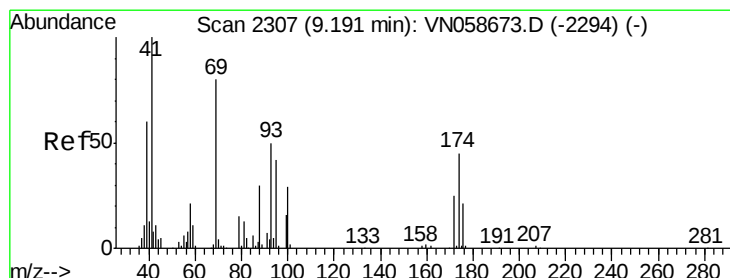
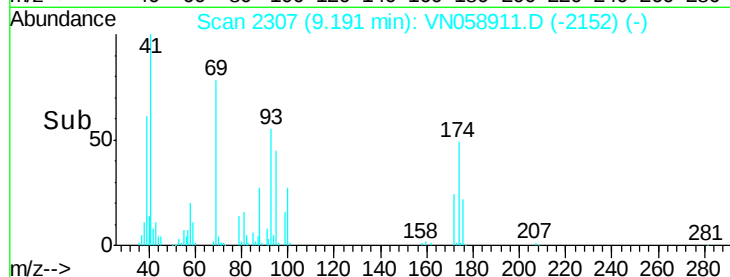
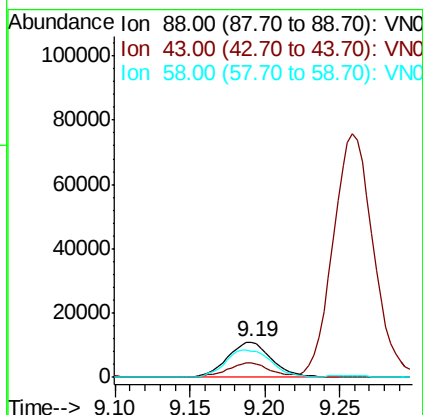
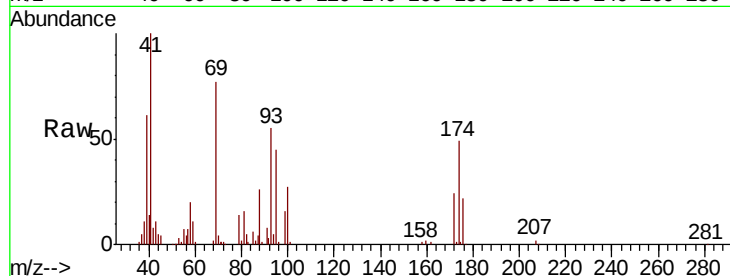


#45  
 1,4-Dioxane  
 Concen: 338.995 ug/l  
 RT: 9.19 min Scan# 2307  
 Delta R.T. -0.00 min  
 Lab File: VN058911.D  
 Acq: 22 Oct 2019 16:08

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Tot Ion: 88 Resp: 22426  

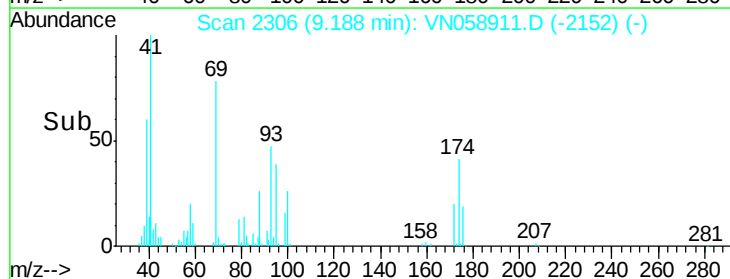
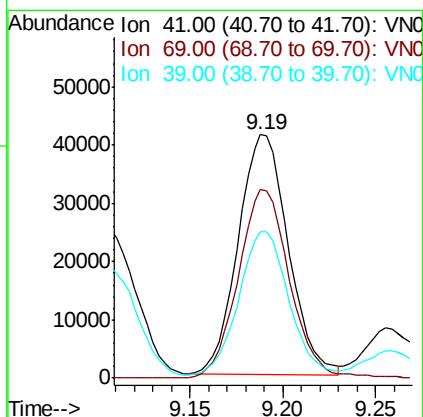
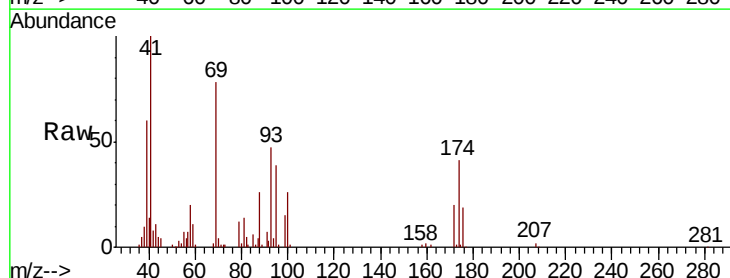
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 36.0  | 29.8  | 44.8  |
| 58  | 82.2  | 58.2  | 87.4  |

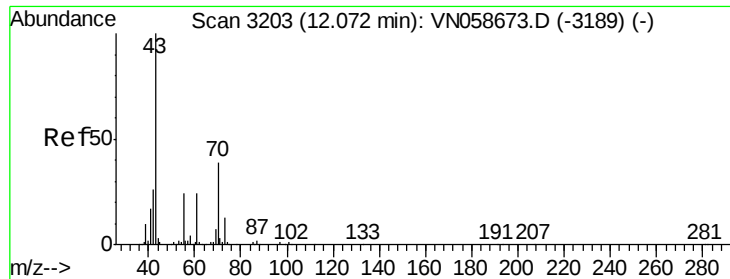


#46  
 Methyl methacrylate  
 Concen: 19.684 ug/l  
 RT: 9.19 min Scan# 2306  
 Delta R.T. -0.00 min  
 Lab File: VN058911.D  
 Acq: 22 Oct 2019 16:08

Tgt Ion: 41 Resp: 77852  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 41  | 100   |       |       |
| 69  | 78.7  | 40.2  | 120.5 |
| 39  | 59.8  | 29.9  | 89.8  |

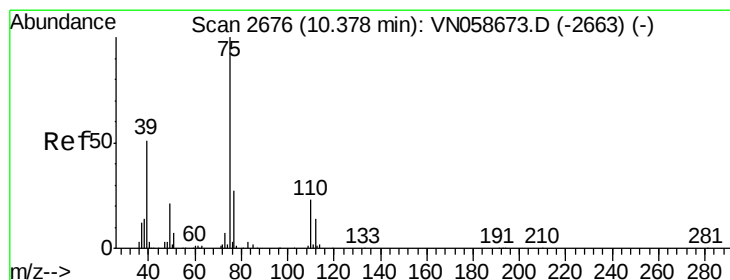
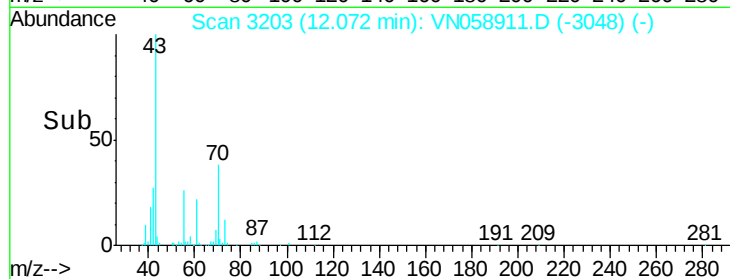
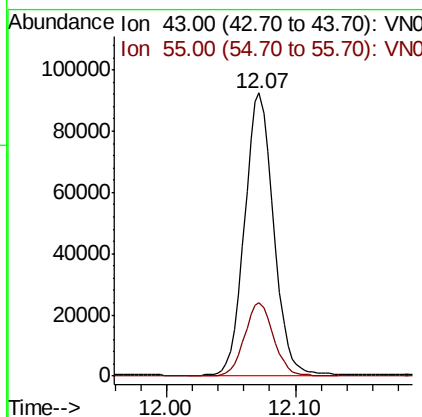
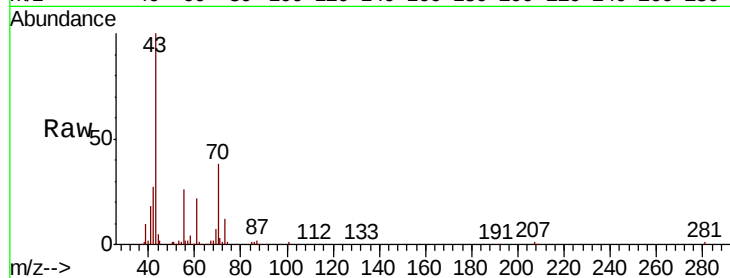




#47  
n-amvl Acetate  
Concen: 18.852 ug/l  
RT: 12.07 min Scan# 3203  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

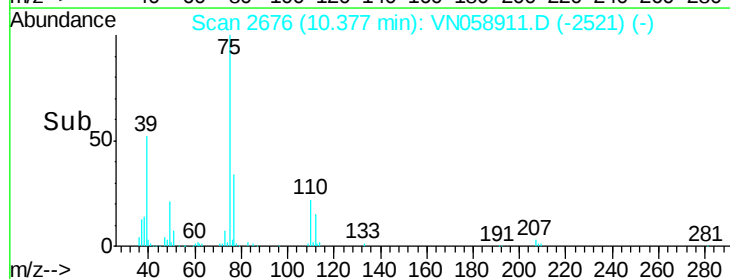
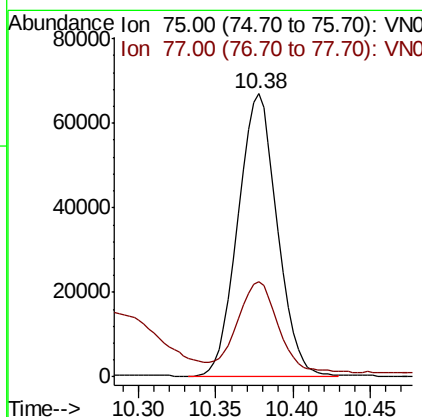
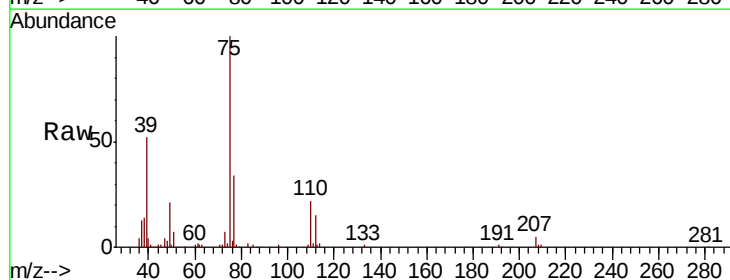
Instrument :  
MSVOA\_N  
ClientSampled :

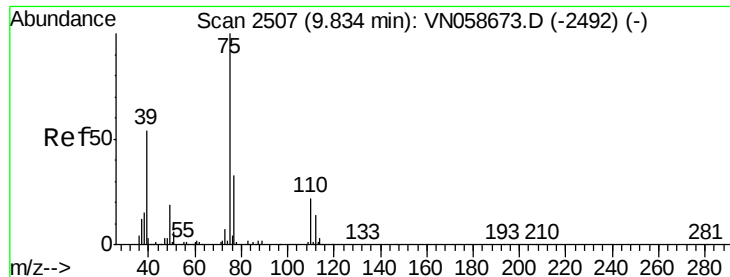
Tot Ion: 43 Resp: 143980  
Ion Ratio Lower Upper  
43 100  
55 26.1 19.6 29.4



#48  
t-1,3-Dichloropropene  
Concen: 20.419 ug/l  
RT: 10.38 min Scan# 2676  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

Tgt Ion: 75 Resp: 117831  
Ion Ratio Lower Upper  
75 100  
77 31.6 27.0 40.4



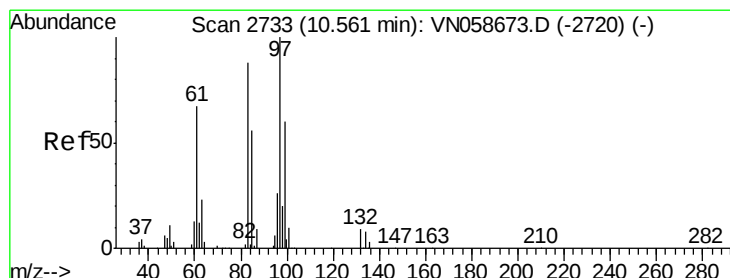
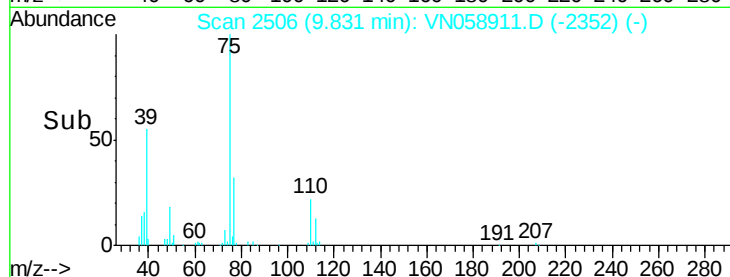
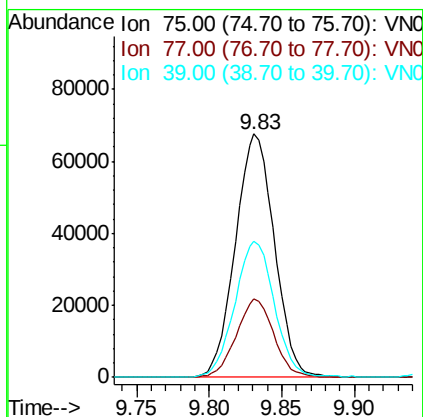
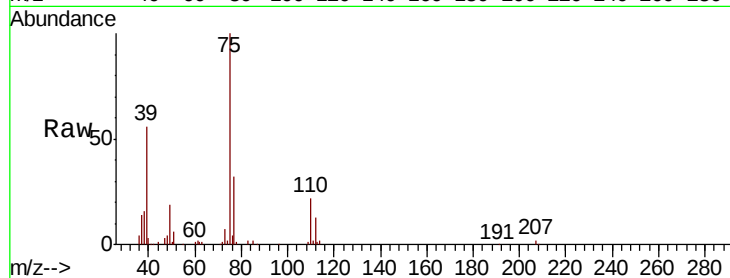


#49

cis-1,3-Dichloropropene  
 Concen: 20.854 ug/l  
 RT: 9.83 min Scan# 2506  
 Delta R.T. -0.00 min  
 Lab File: VN058911.D  
 Acq: 22 Oct 2019 16:08

Instrument :  
 MSVOA\_N  
 ClientSampleId :

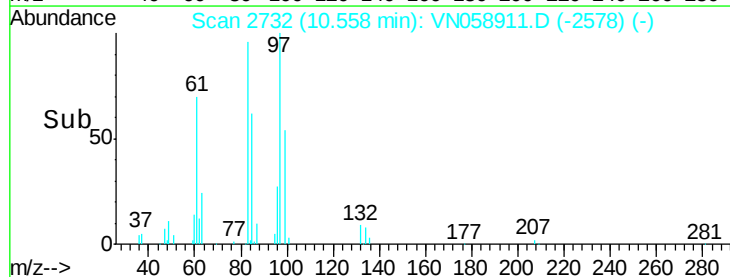
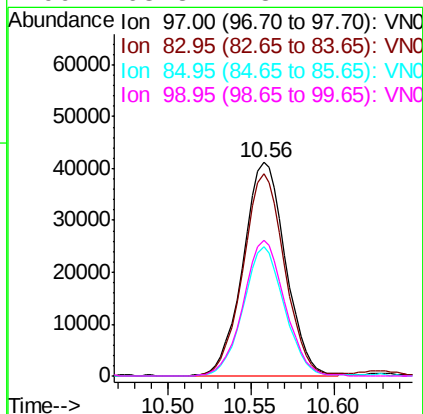
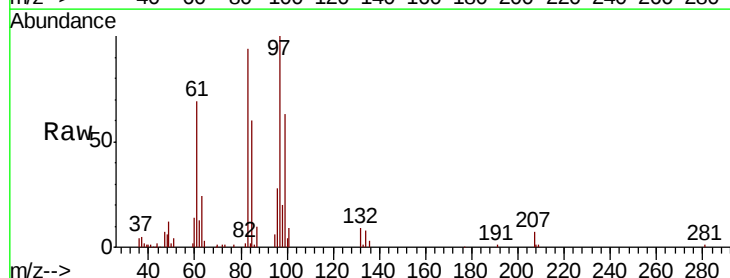
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 75    | Resp: | 126365 |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 77       | 32.1  | 26.1  | 39.1   |
| 39       | 55.5  | 43.1  | 64.7   |

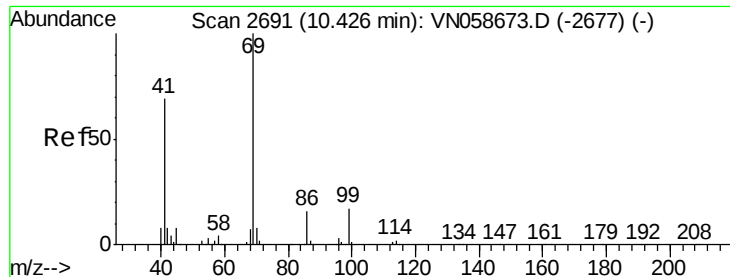


#50

1,1,2-Trichloroethane  
 Concen: 21.133 ug/l  
 RT: 10.56 min Scan# 2732  
 Delta R.T. -0.00 min  
 Lab File: VN058911.D  
 Acq: 22 Oct 2019 16:08

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 73478 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 94.5  | 70.7  | 106.1 |
| 85       | 60.5  | 45.1  | 67.7  |
| 99       | 63.3  | 48.2  | 72.4  |





#51

Ethyl methacrylate

Concen: 19.189 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. -0.00 min

Lab File: VN058911.D

Acq: 22 Oct 2019 16:08

Instrument :

MSVOA\_N

ClientSampled :

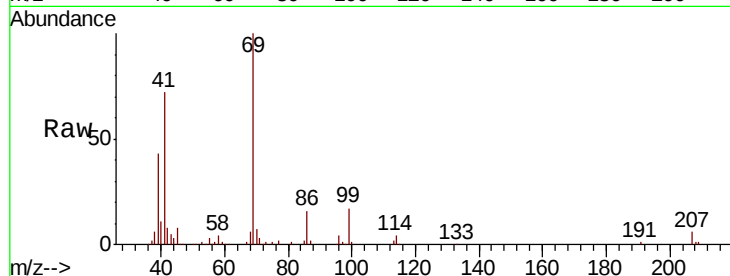
Tot Ion: 69 Resp: 106686

Ion Ratio Lower Upper

69 100

41 71.7 34.7 104.1

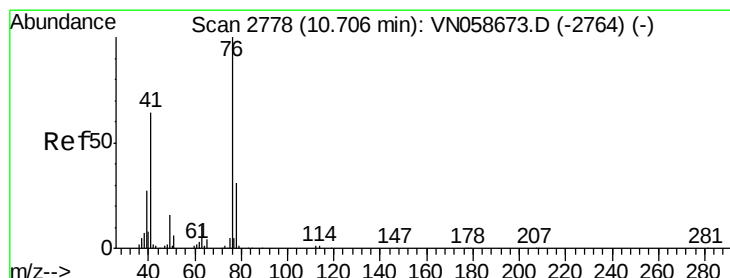
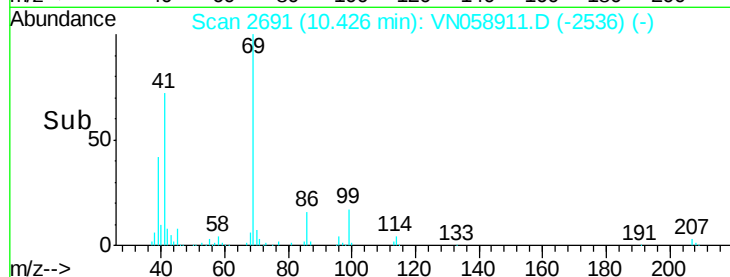
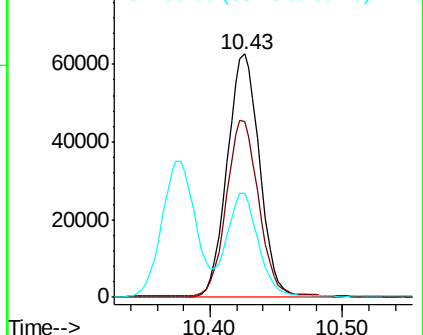
39 42.3 20.3 60.8



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: 20.856 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. -0.00 min

Lab File: VN058911.D

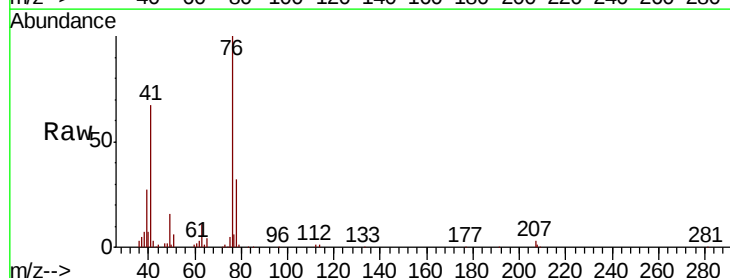
Acq: 22 Oct 2019 16:08

Tgt Ion: 76 Resp: 129142

Ion Ratio Lower Upper

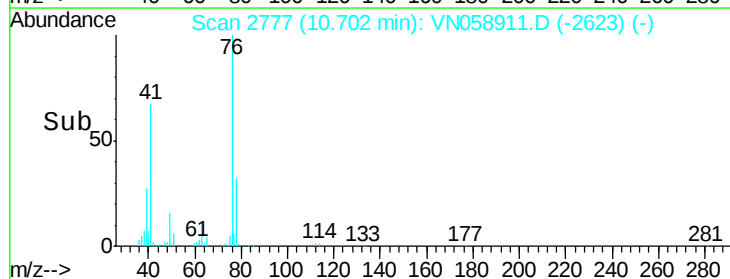
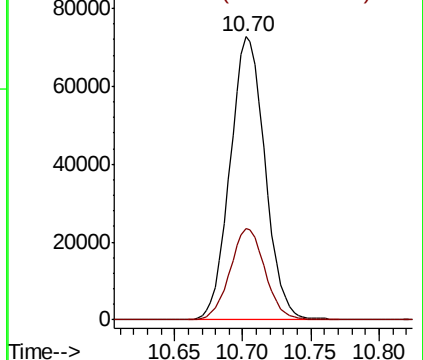
76 100

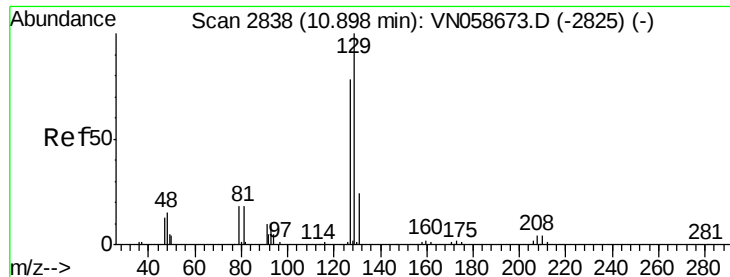
78 32.2 0.0 63.2



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

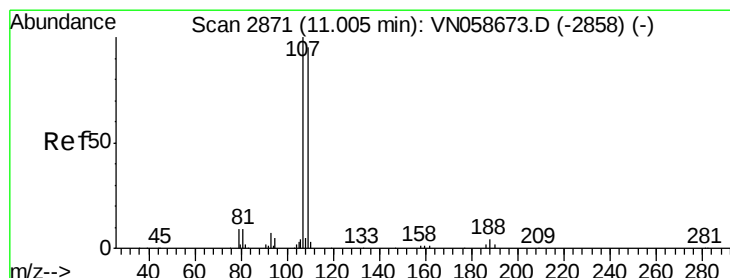
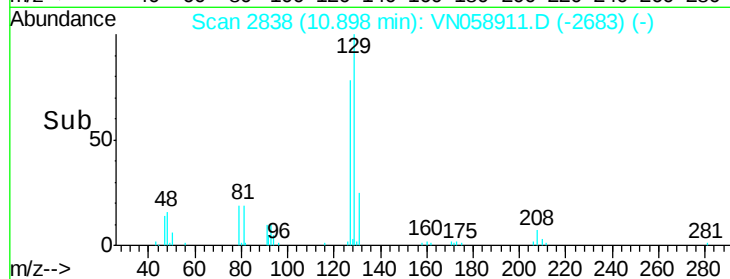
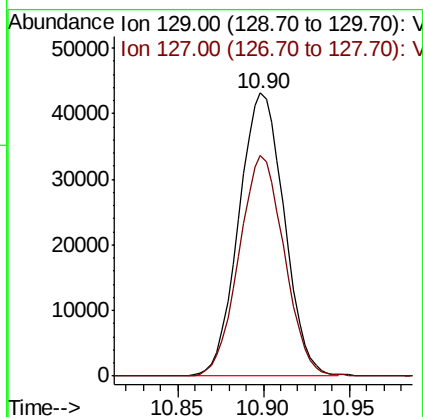
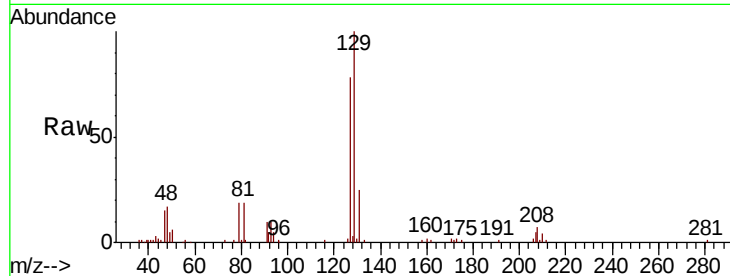




#53  
 Dibromochloromethane  
 Concen: 21.212 ug/l  
 RT: 10.90 min Scan# 2838  
 Delta R.T. -0.00 min  
 Lab File: VN058911.D  
 Acq: 22 Oct 2019 16:08

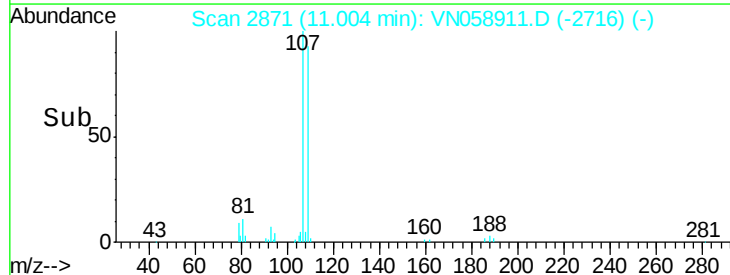
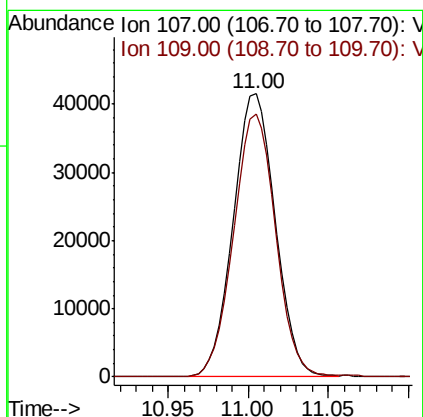
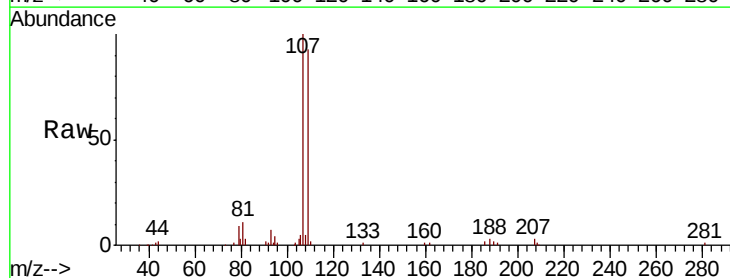
Instrument :  
 MSVOA\_N  
 ClientSampleId :

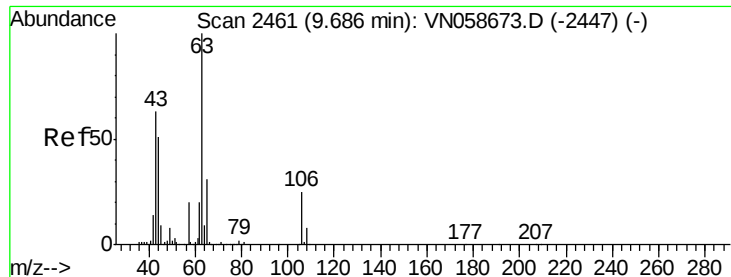
Tot Ion:129 Resp: 79149  
 Ion Ratio Lower Upper  
 129 100  
 127 77.5 39.1 117.5



#54  
 1,2-Dibromoethane  
 Concen: 20.664 ug/l  
 RT: 11.00 min Scan# 2871  
 Delta R.T. -0.00 min  
 Lab File: VN058911.D  
 Acq: 22 Oct 2019 16:08

Tgt Ion:107 Resp: 74470  
 Ion Ratio Lower Upper  
 107 100  
 109 92.9 76.2 114.4





#55

2-Chloroethyl vinyl ether

Concen: 93.298 ug/l

RT: 9.69 min Scan# 2461

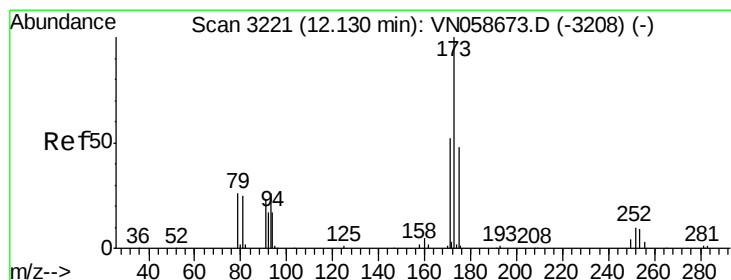
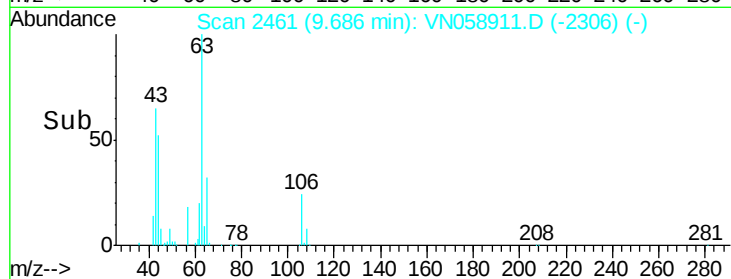
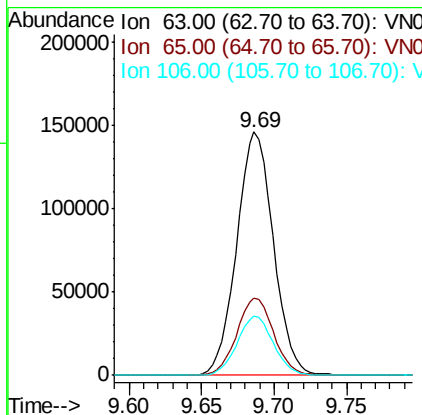
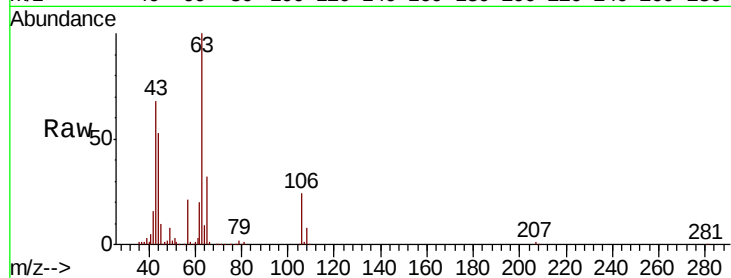
Delta R.T. -0.00 min

Lab File: VN058911.D

Acq: 22 Oct 2019 16:08

Instrument :  
MSVOA\_N  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 63    | Resp: | 258017 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 65       | 32.0  | 25.3  | 37.9   |
| 106      | 24.2  | 19.8  | 29.6   |



#56

Bromoform

Concen: 20.834 ug/l

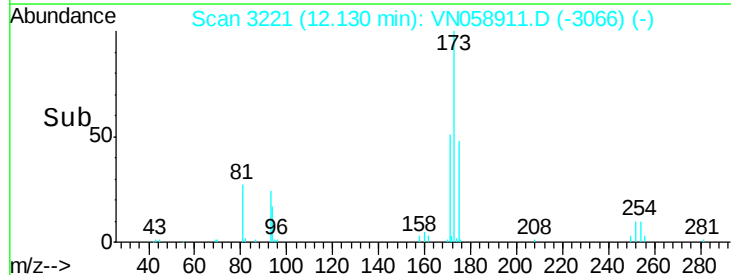
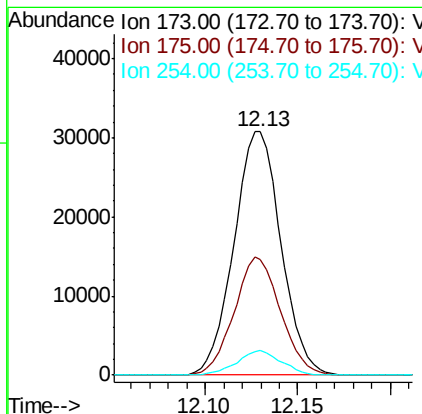
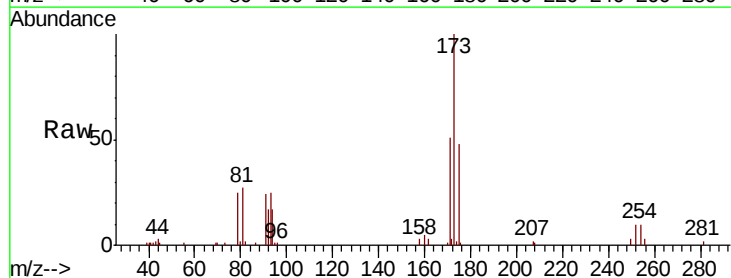
RT: 12.13 min Scan# 3221

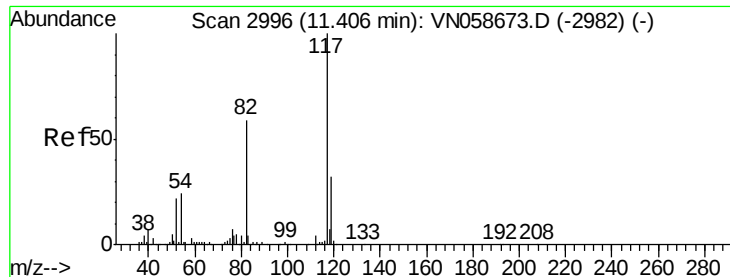
Delta R.T. -0.00 min

Lab File: VN058911.D

Acq: 22 Oct 2019 16:08

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 173   | Resp: | 54154 |
| Ion      | Ratio | Lower | Upper |
| 173      | 100   |       |       |
| 175      | 47.6  | 38.7  | 58.1  |
| 254      | 9.4   | 7.4   | 11.2  |

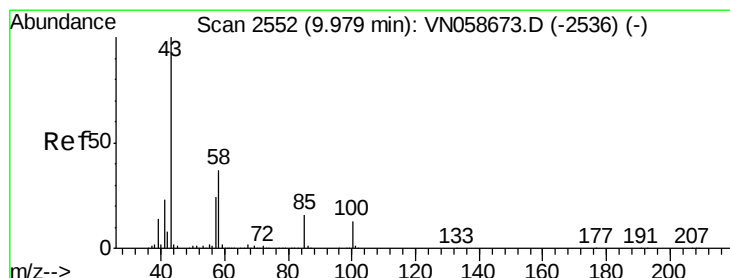
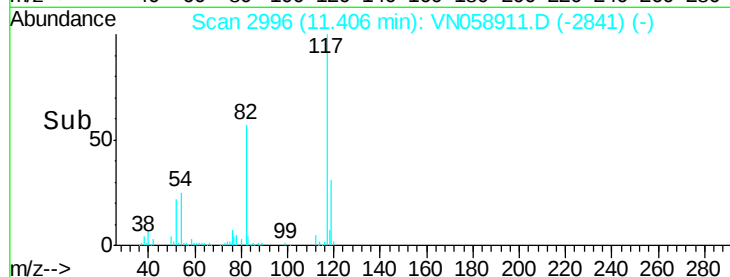
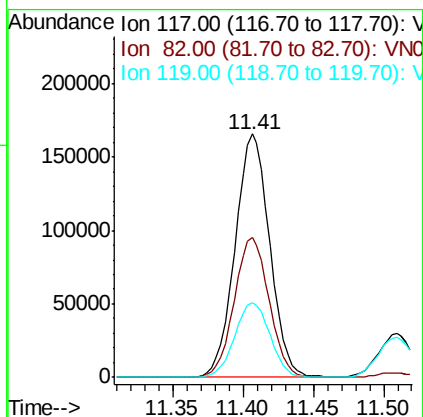
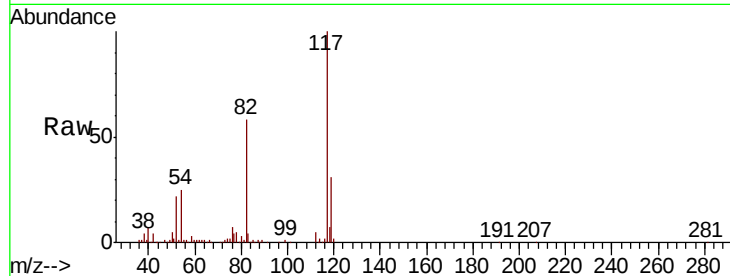




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

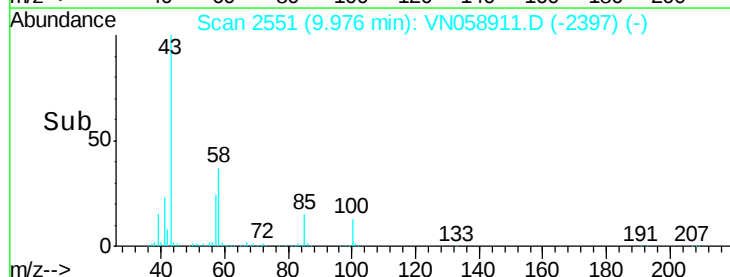
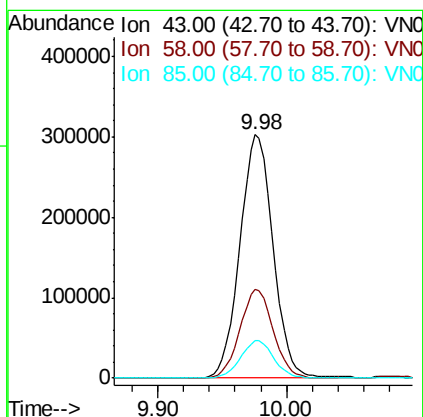
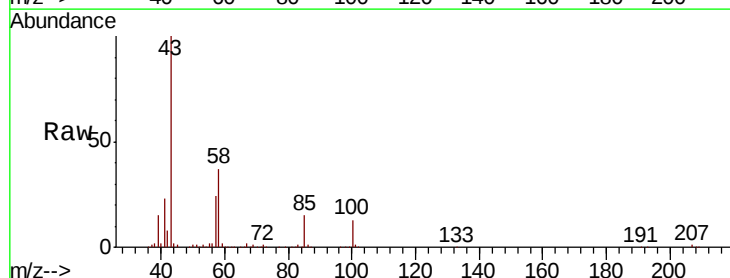
Instrument :  
MSVOA\_N  
ClientSampleId :

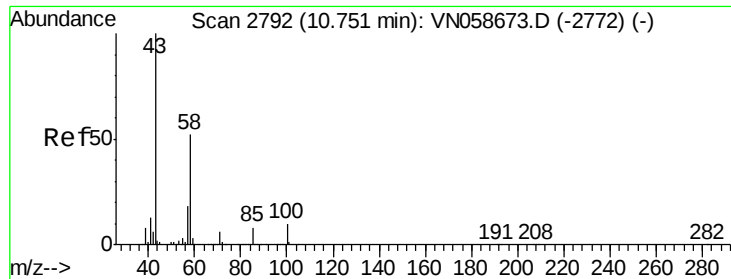
Tot Ion:117 Resp: 284778  
Ion Ratio Lower Upper  
117 100  
82 57.9 46.9 70.3  
119 31.4 25.8 38.6



#58  
4-Methyl-2-Pentanone  
Concen: 104.152 ug/l  
RT: 9.98 min Scan# 2551  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

Tgt Ion: 43 Resp: 541078  
Ion Ratio Lower Upper  
43 100  
58 36.6 30.1 45.1  
85 15.4 13.2 19.8

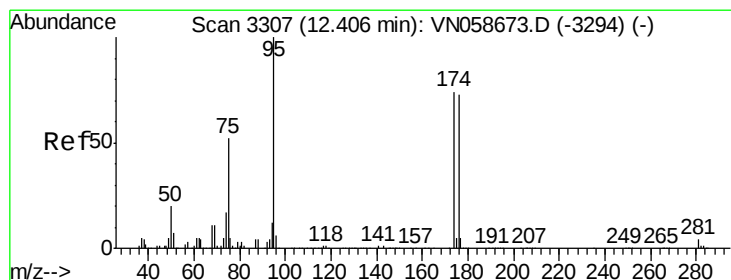
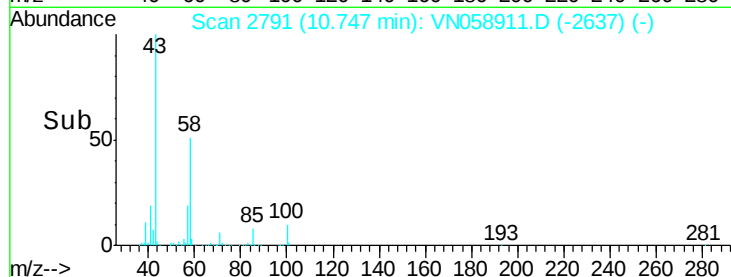
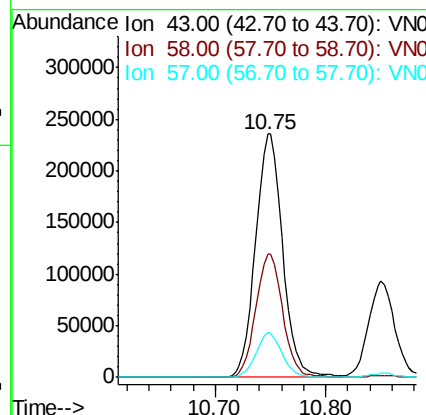
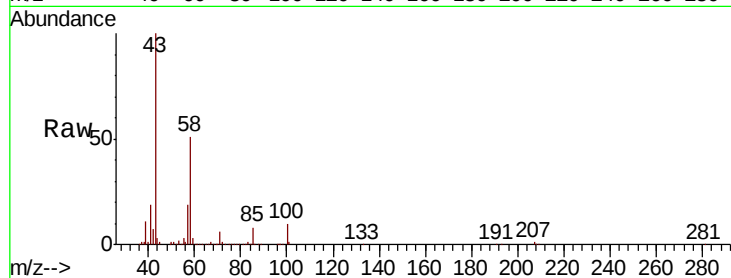




#59  
2-Hexanone  
Concen: 98.453 ug/l  
RT: 10.75 min Scan# 2791  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

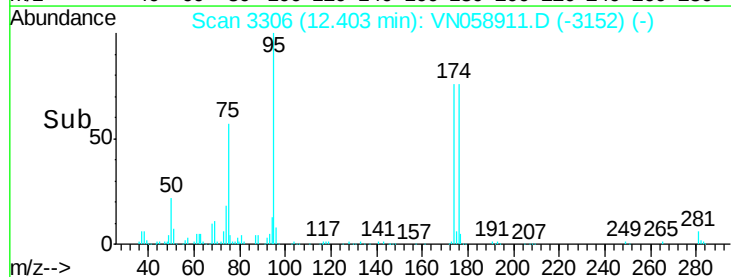
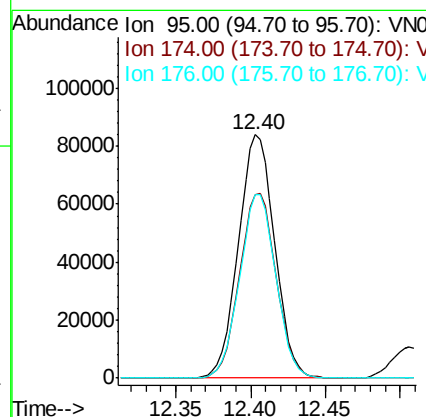
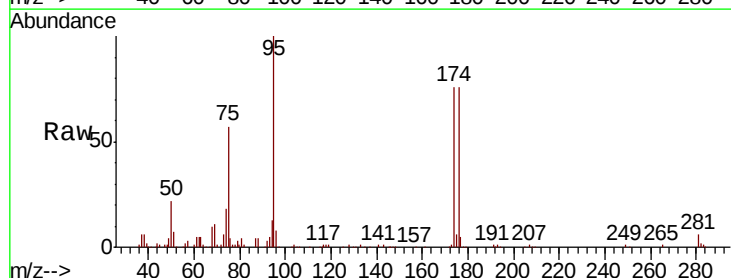
Instrument :  
MSVOA\_N  
ClientSampled :

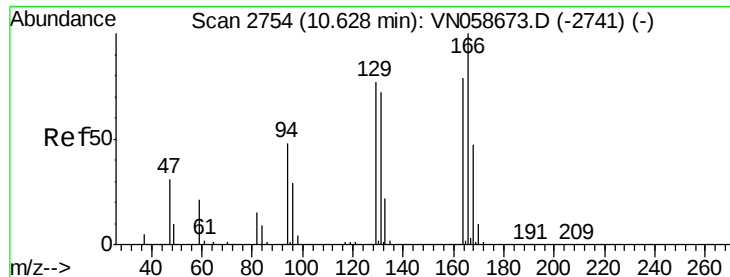
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 50.5  | 41.4  | 62.0  |
| 57      | 17.8  | 14.7  | 22.1  |



#60  
4-Bromofluorobenzene  
Concen: 28.455 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 76.7  | 59.9  | 89.9  |
| 176     | 75.4  | 58.3  | 87.5  |





#61

Tetrachloroethene

Concen: 20.913 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.00 min

Lab File: VN058911.D

Acq: 22 Oct 2019 16:08

Instrument :

MSVOA\_N

ClientSampleId :

Tot Ion:164 Resp: 64357

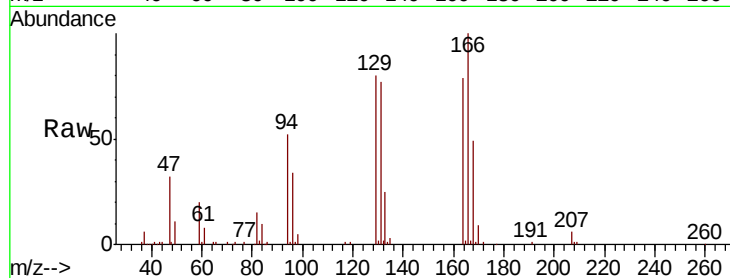
Ion Ratio Lower Upper

164 100

166 126.1 101.4 152.2

129 100.7 78.1 117.1

131 97.6 73.2 109.8

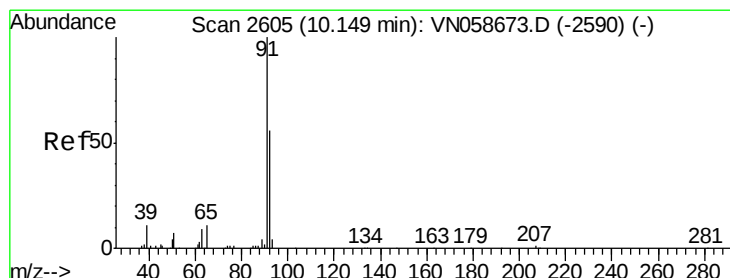
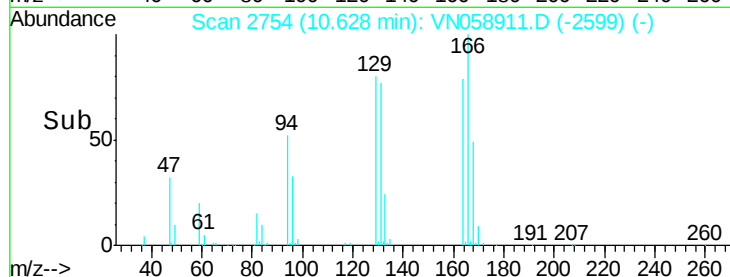
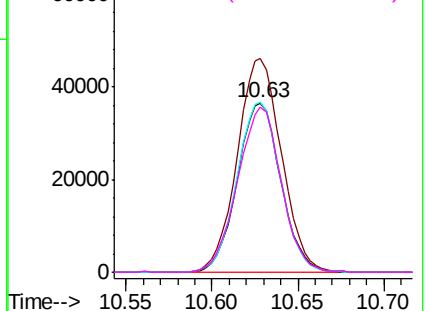


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 20.655 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VN058911.D

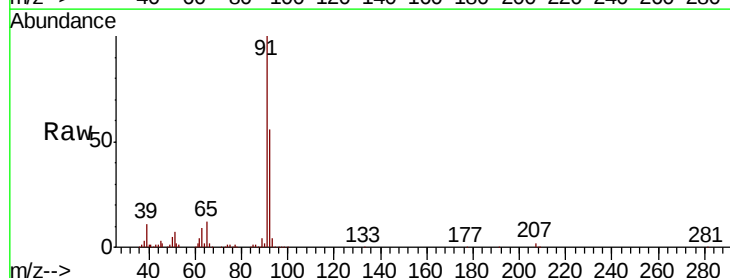
Acq: 22 Oct 2019 16:08

Tgt Ion: 91 Resp: 316397

Ion Ratio Lower Upper

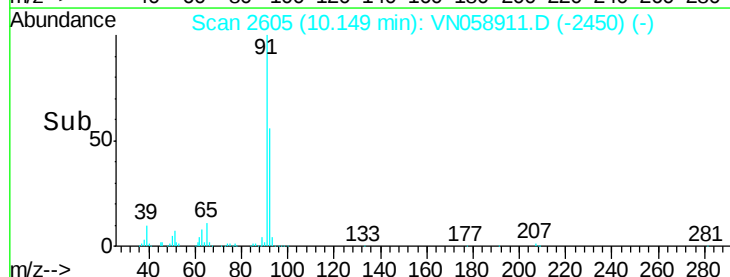
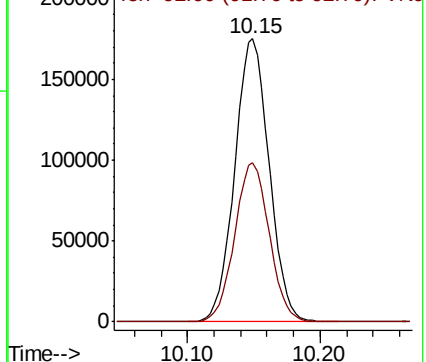
91 100

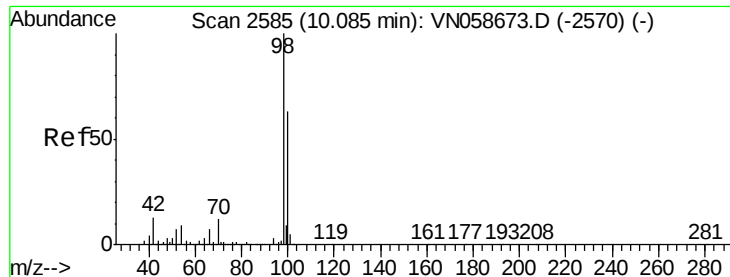
92 56.3 45.4 68.2



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0





#63

Toluene-d8

Concen: 30.345 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058911.D

Acq: 22 Oct 2019 16:08

Instrument :

MSVOA\_N

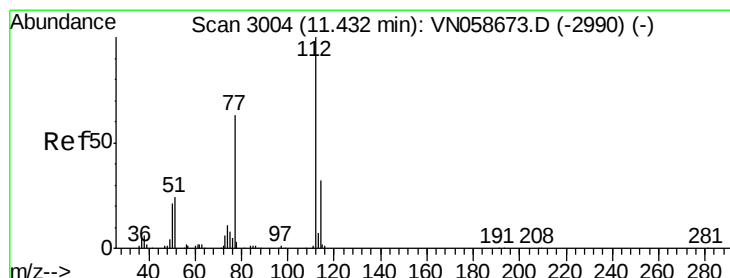
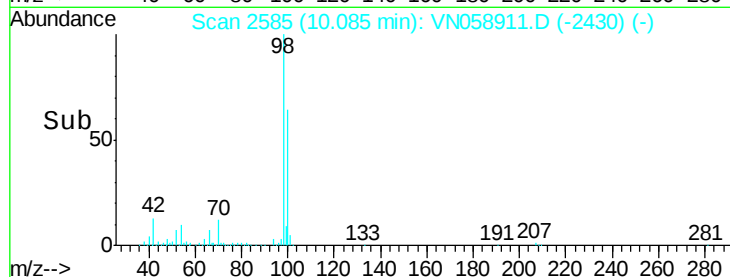
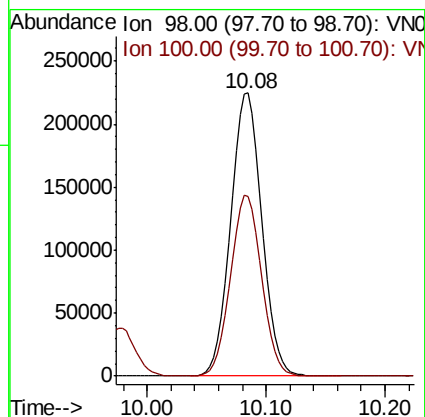
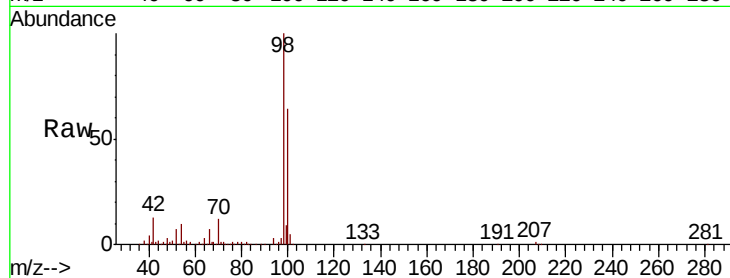
ClientSampleId :

Tot Ion: 98 Resp: 408018

Ion Ratio Lower Upper

98 100

100 63.6 50.6 75.8



#64

Chlorobenzene

Concen: 20.080 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN058911.D

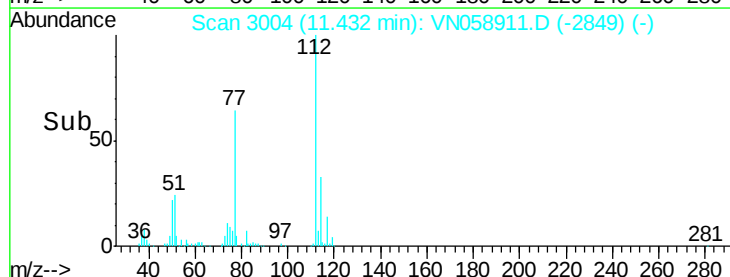
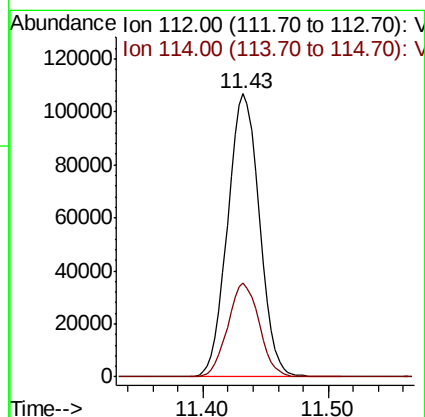
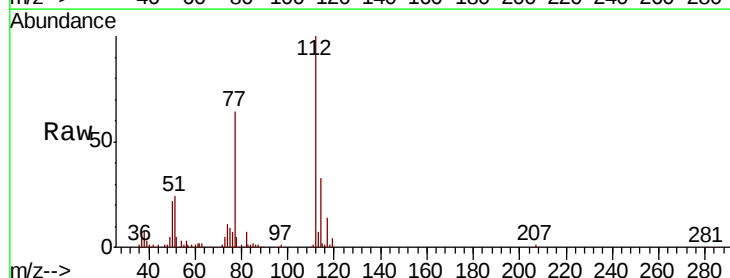
Acq: 22 Oct 2019 16:08

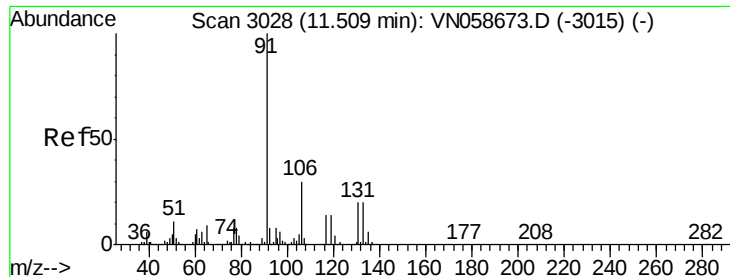
Tgt Ion: 112 Resp: 188057

Ion Ratio Lower Upper

112 100

114 33.0 25.7 38.5





#65

1,1,1,2-Tetrachloroethane

Concen: 20.729 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN058911.D

Acq: 22 Oct 2019 16:08

Instrument :

MSVOA\_N

ClientSampleId :

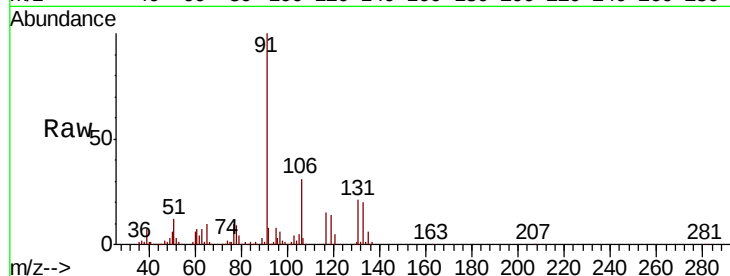
Tot Ion:131 Resp: 72794

Ion Ratio Lower Upper

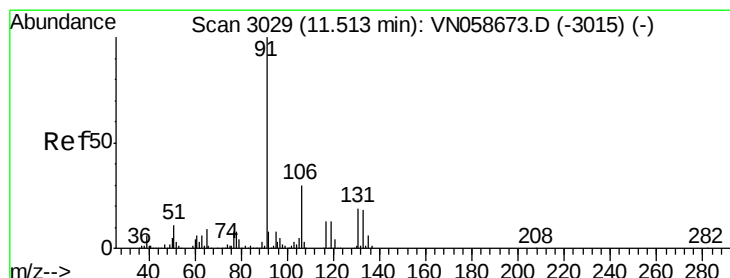
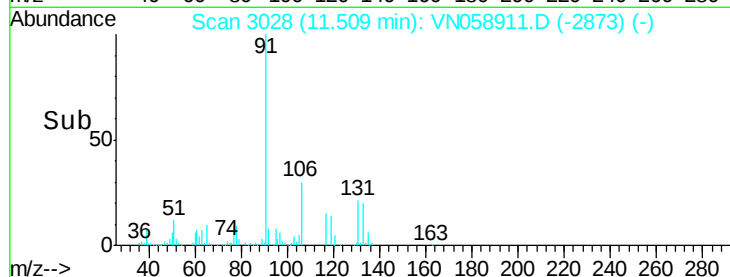
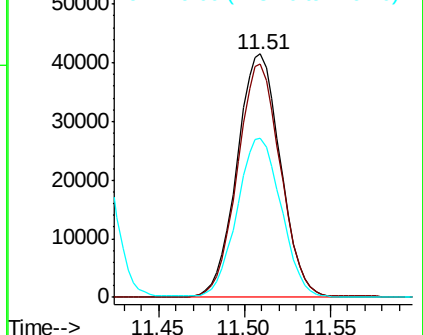
131 100

133 95.3 0.0 194.0

119 66.3 0.0 136.8



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: 19.948 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. -0.00 min

Lab File: VN058911.D

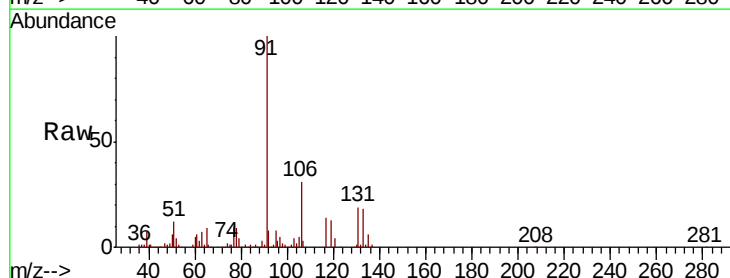
Acq: 22 Oct 2019 16:08

Tgt Ion: 91 Resp: 338353

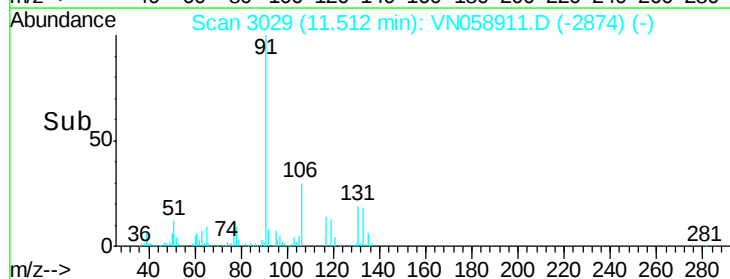
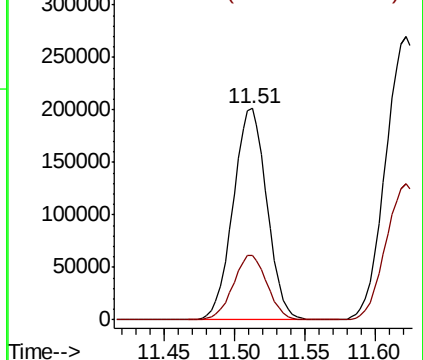
Ion Ratio Lower Upper

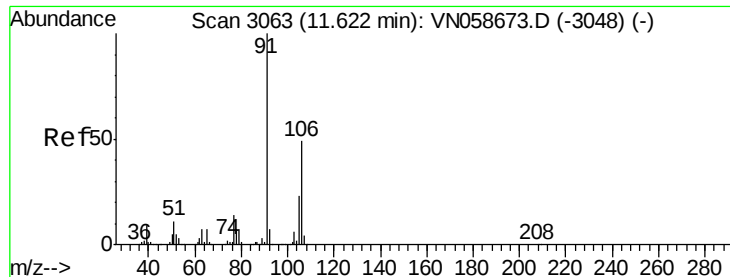
91 100

106 30.6 24.2 36.4



Abundance Ion 91.00 (90.70 to 91.70): V  
Ion 106.00 (105.70 to 106.70): V

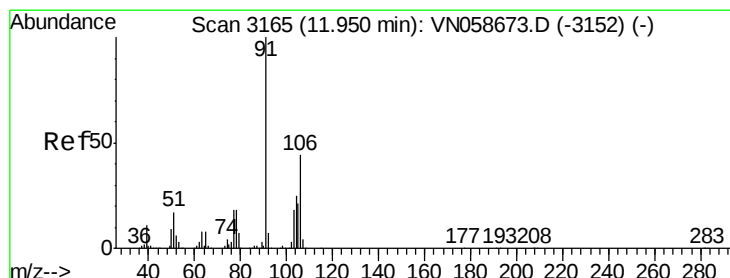
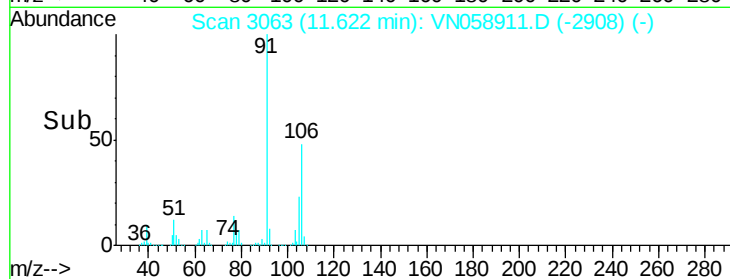
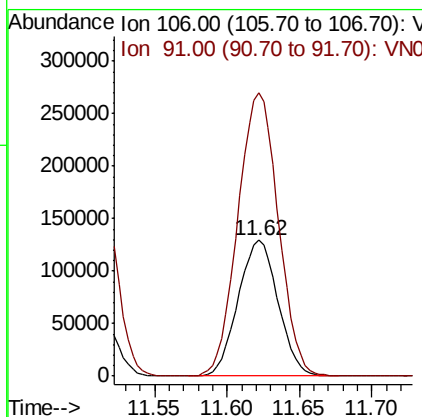
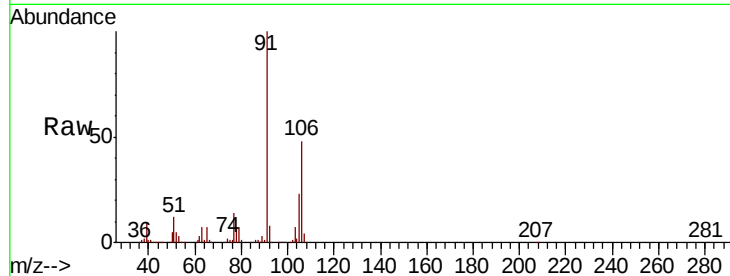




#67  
m/p-Xylenes  
Concen: 39.281 ug/l  
RT: 11.62 min Scan# 3063  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

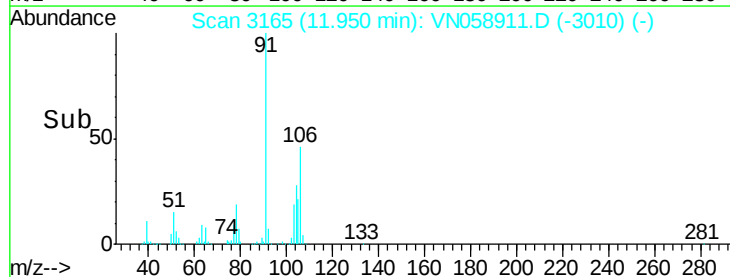
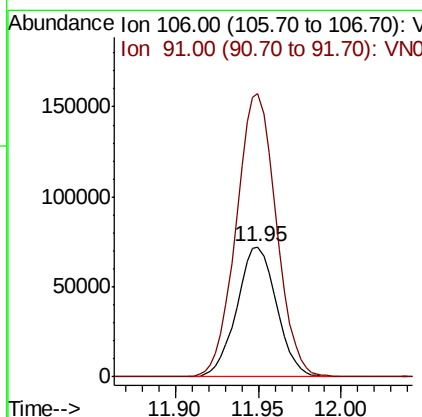
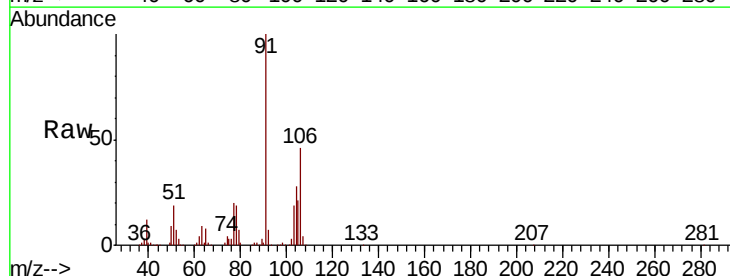
Instrument :  
MSVOA\_N  
ClientSampled :

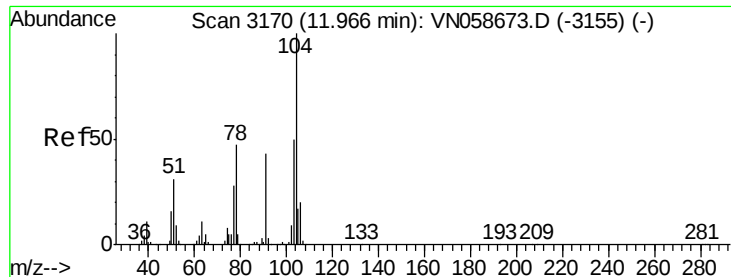
Tot Ion:106 Resp: 248927  
Ion Ratio Lower Upper  
106 100  
91 209.8 165.6 248.4



#68  
o-Xylene  
Concen: 19.634 ug/l  
RT: 11.95 min Scan# 3165  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

Tgt Ion:106 Resp: 120620  
Ion Ratio Lower Upper  
106 100  
91 219.0 109.8 329.4

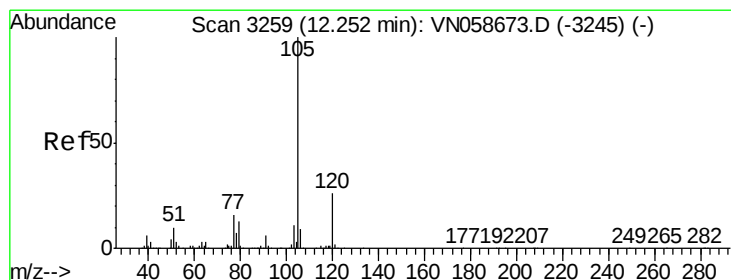
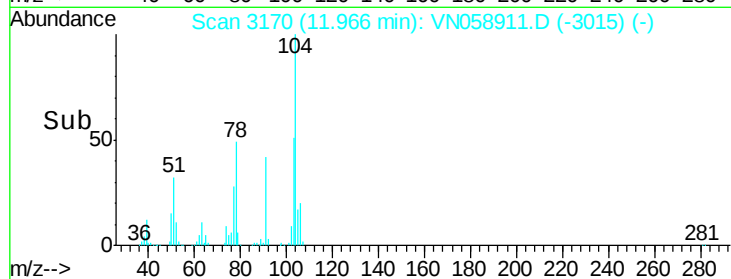
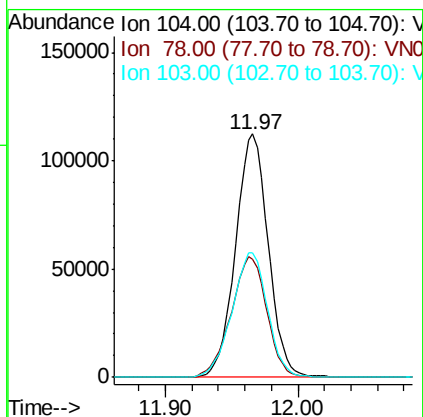
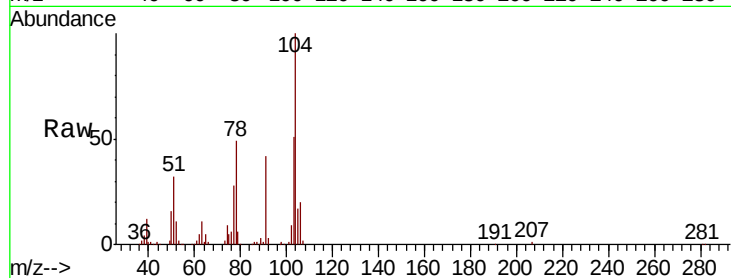




#69  
Stvrene  
Concen: 19.013 ug/l  
RT: 11.97 min Scan# 3170  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

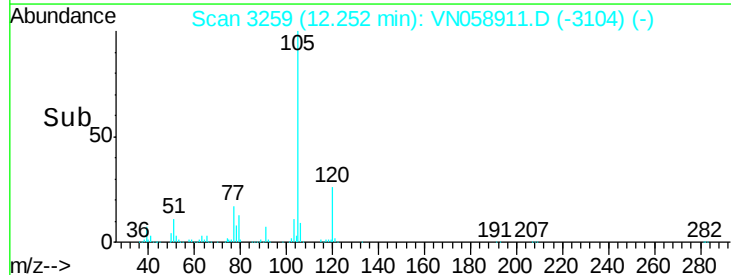
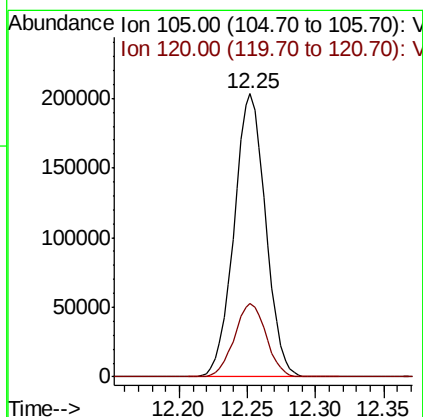
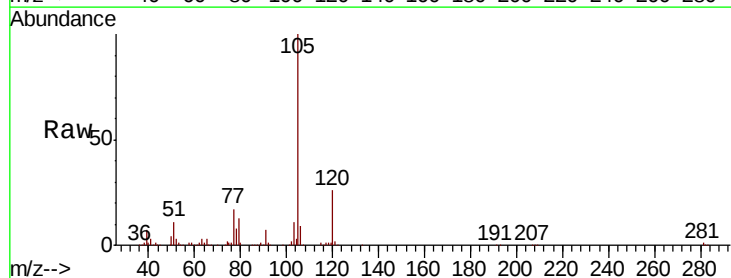
Instrument :  
MSVOA\_N  
ClientSampled :

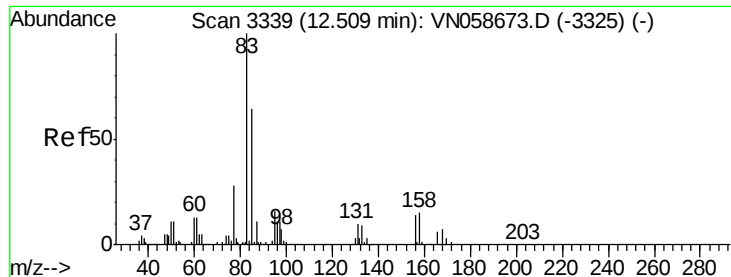
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 54.0  | 42.4  | 63.6  |
| 103     | 55.8  | 44.6  | 66.8  |



#70  
Isopropylbenzene  
Concen: 19.663 ug/l  
RT: 12.25 min Scan# 3259  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 26.1  | 18.4  | 34.2  |

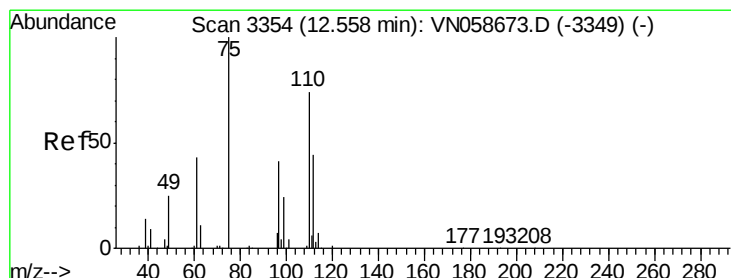
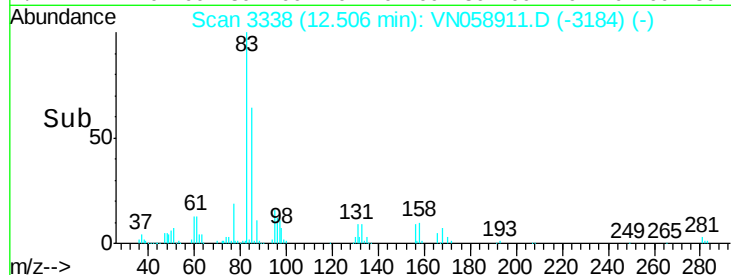
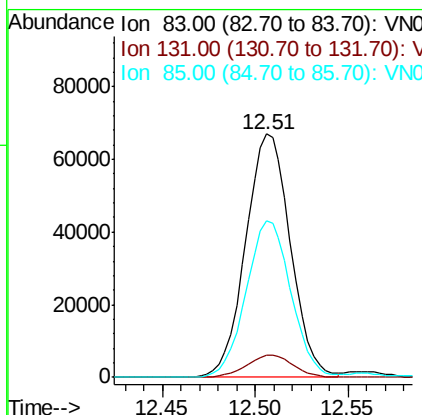
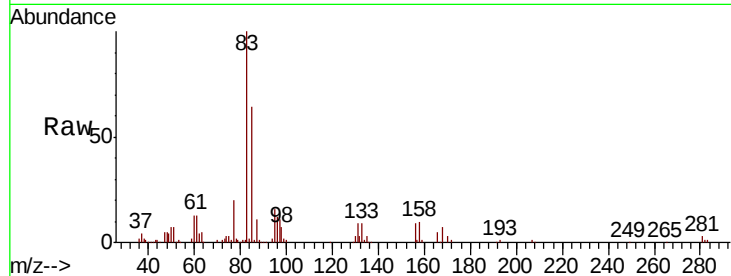




#71  
 1,1,2,2-Tetrachloroethane  
 Concen: 20.180 ug/l  
 RT: 12.51 min Scan# 3338  
 Delta R.T. -0.00 min  
 Lab File: VN058911.D  
 Acq: 22 Oct 2019 16:08

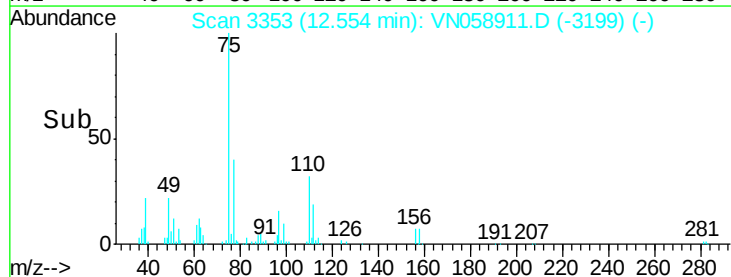
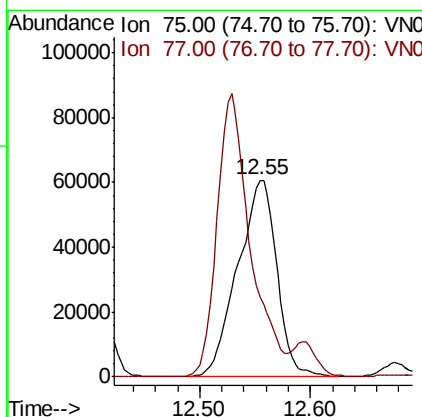
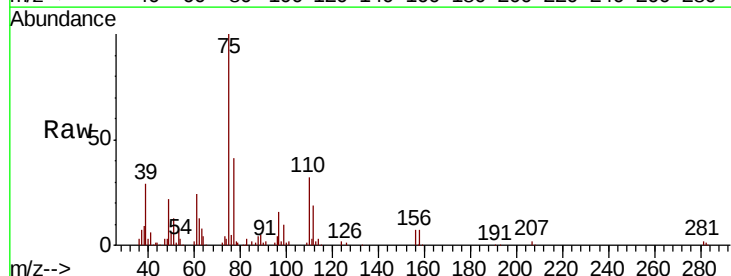
Instrument :  
 MSVOA\_N  
 ClientSampleId :

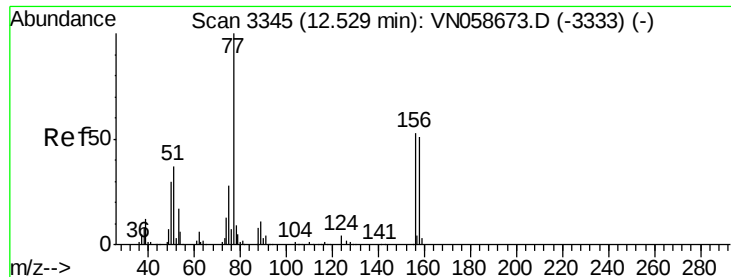
| Tot Ion   | 83    | Resp  | 112679 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 131       | 9.5   | 4.9   | 14.7   |
| 85        | 64.3  | 31.6  | 94.7   |



#72  
 1,2,3-Trichloropropane  
 Concen: 29.572 ug/l  
 RT: 12.55 min Scan# 3353  
 Delta R.T. -0.00 min  
 Lab File: VN058911.D  
 Acq: 22 Oct 2019 16:08

| Tgt Ion   | 75    | Resp  | 149624 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 77        | 121.9 | 0.0   | 359.4  |





#73

Bromobenzene

Concen: 19.950 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VN058911.D

Acq: 22 Oct 2019 16:08

Instrument :

MSVOA\_N

ClientSampled :

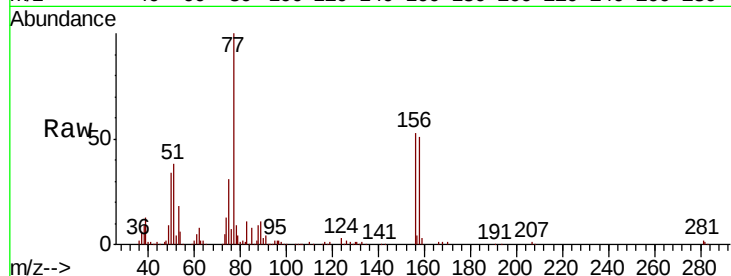
Tot Ion:156 Resp: 80373

Ion Ratio Lower Upper

156 100

77 226.9 0.0 456.0

158 97.4 0.0 195.4



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

120000

100000

80000

60000

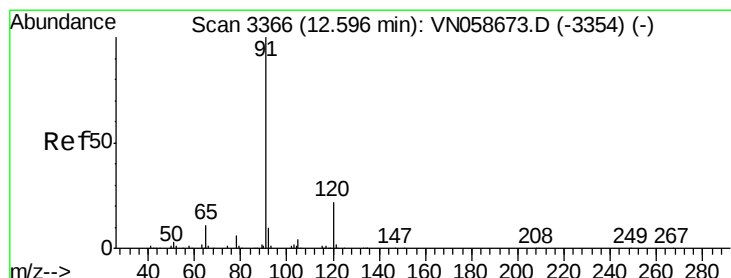
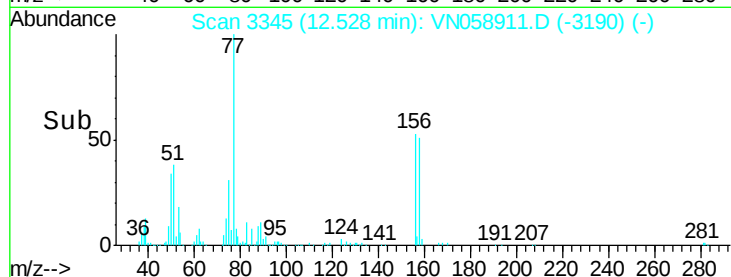
40000

20000

0

12.45 12.50 12.55 12.60

Time-->



#74

n-propylbenzene

Concen: 20.148 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. -0.00 min

Lab File: VN058911.D

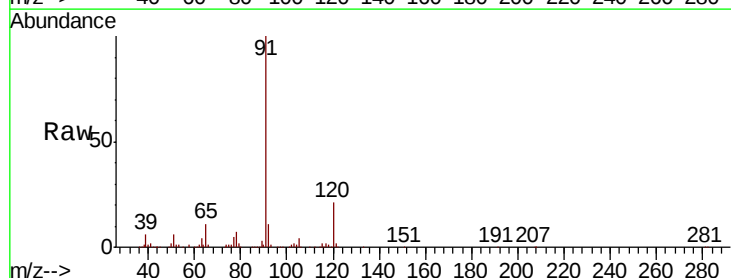
Acq: 22 Oct 2019 16:08

Tgt Ion: 91 Resp: 391152

Ion Ratio Lower Upper

91 100

120 21.6 0.0 43.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

250000

200000

150000

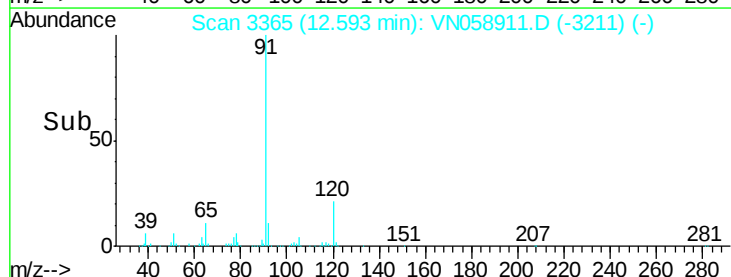
100000

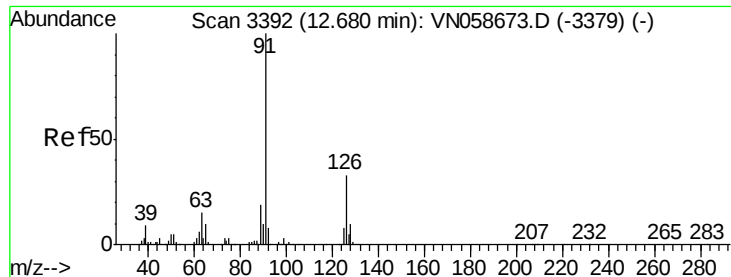
50000

0

12.55 12.60 12.65

Time-->





#75

2-Chlorotoluene

Concen: 19.947 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. -0.00 min

Lab File: VN058911.D

Acq: 22 Oct 2019 16:08

Instrument :

MSVOA\_N

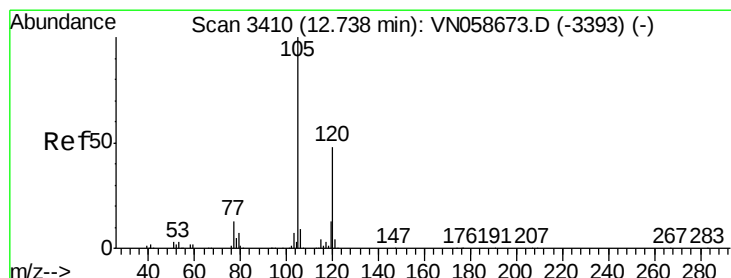
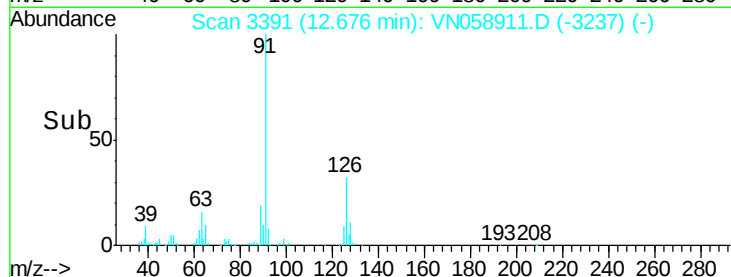
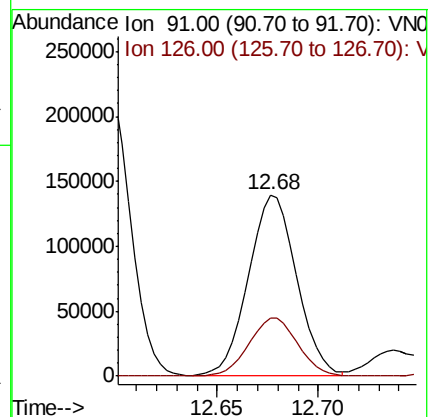
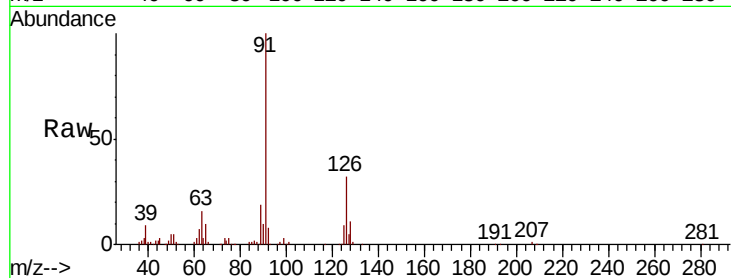
ClientSampleId :

Tot Ion: 91 Resp: 232990

Ion Ratio Lower Upper

91 100

126 32.5 0.0 65.4



#76

1,3,5-Trimethylbenzene

Concen: 19.745 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN058911.D

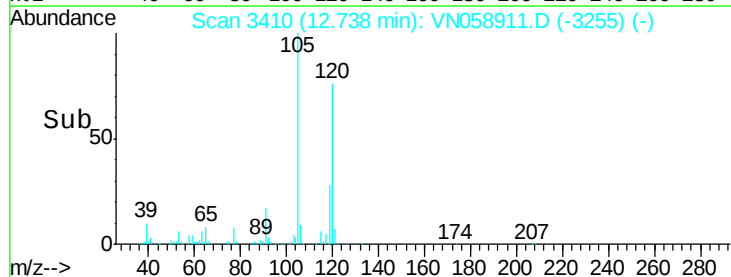
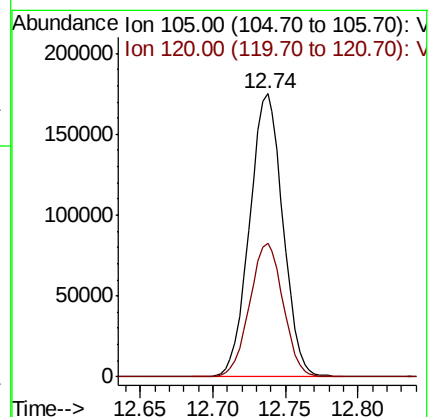
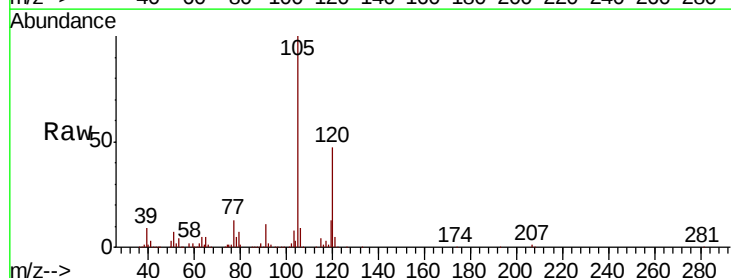
Acq: 22 Oct 2019 16:08

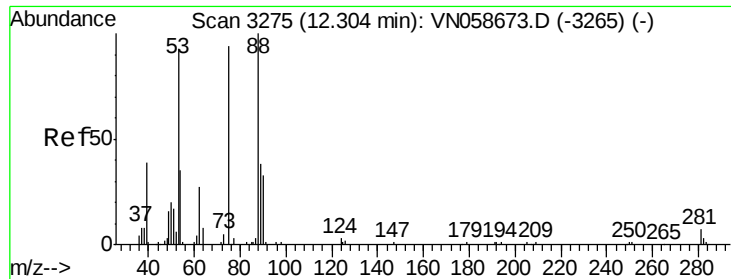
Tgt Ion: 105 Resp: 280499

Ion Ratio Lower Upper

105 100

120 47.4 0.0 94.0

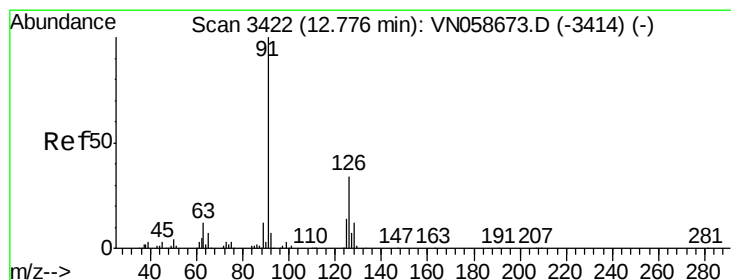
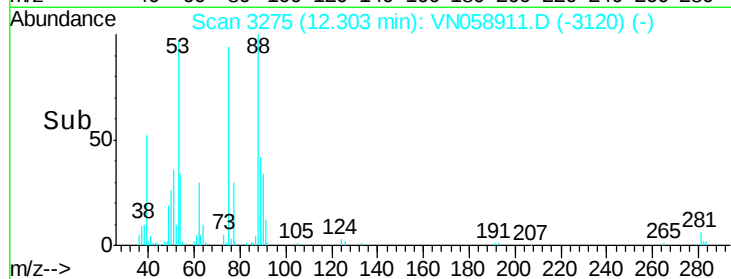
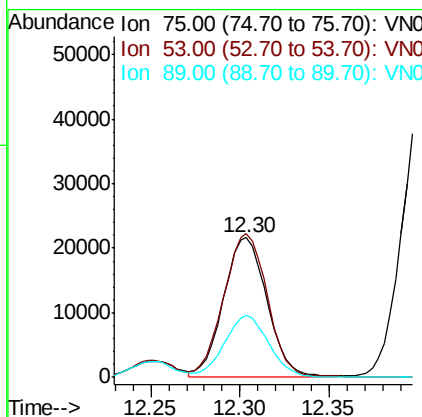
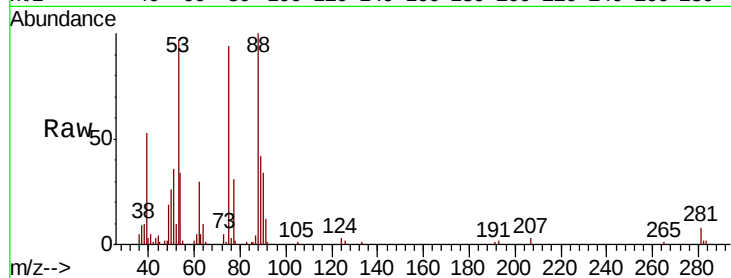




#77  
t-1,4-Dichloro-2-butene  
Concen: 19.060 ug/l  
RT: 12.30 min Scan# 3275  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

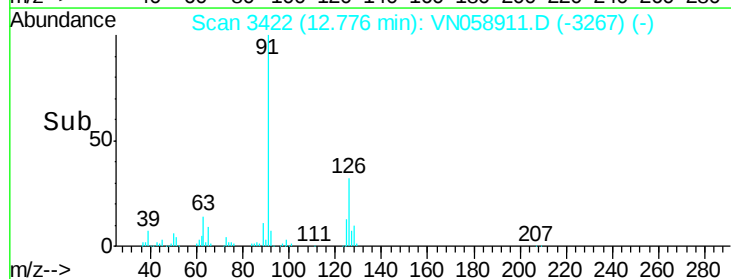
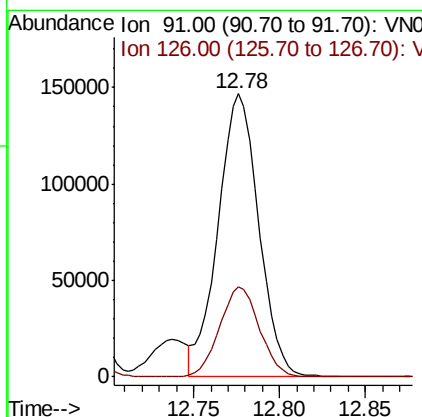
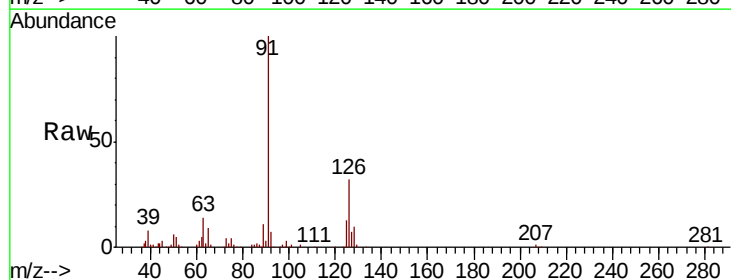
Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 75 Resp: 36738  
Ion Ratio Lower Upper  
75 100  
53 103.4 50.0 150.0  
89 44.8 20.7 62.1



#78  
4-Chlorotoluene  
Concen: 20.008 ug/l  
RT: 12.78 min Scan# 3422  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

Tgt Ion: 91 Resp: 240879  
Ion Ratio Lower Upper  
91 100  
126 31.5 0.0 63.4

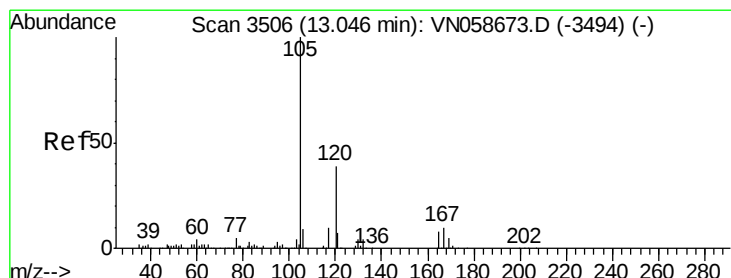
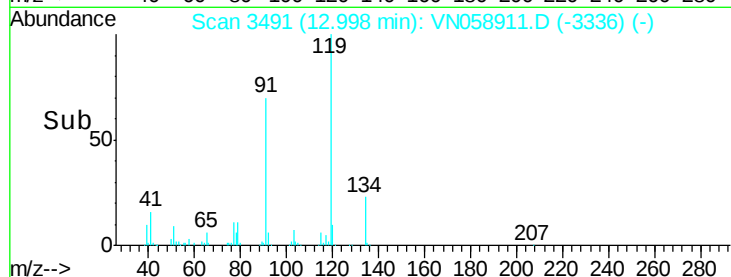
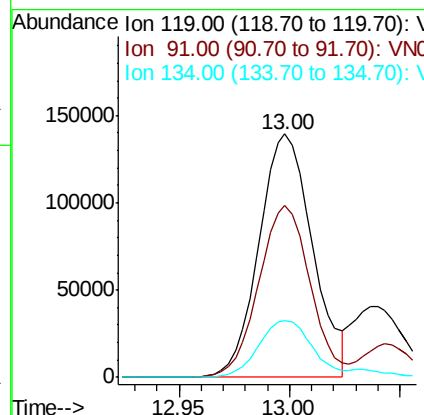
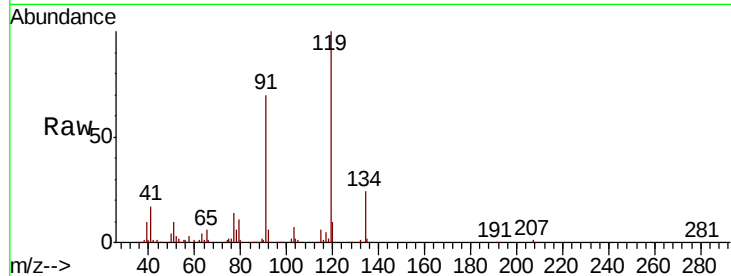




#79  
tert-butylbenzene  
Concen: 19.312 ug/l  
RT: 13.00 min Scan# 3491  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

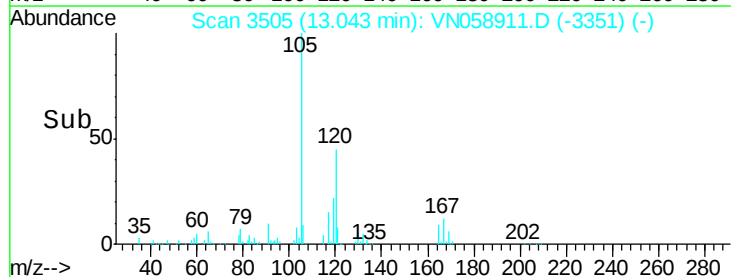
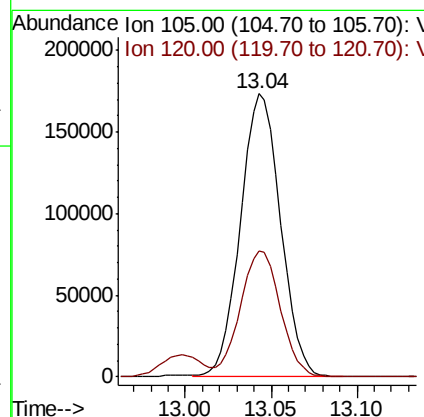
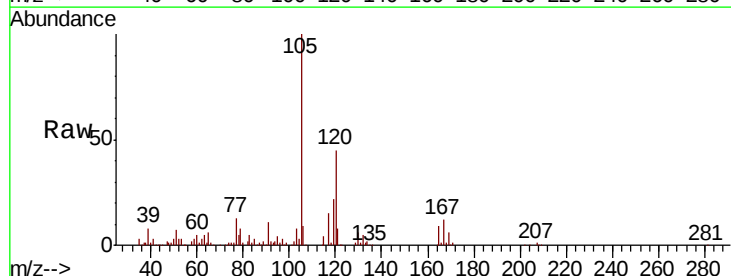
Instrument :  
MSVOA\_N  
ClientSampled :

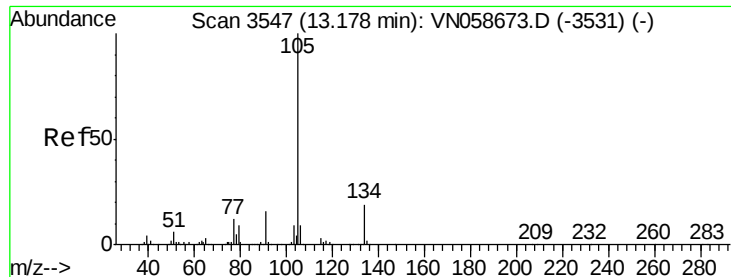
Tot Ion:119 Resp: 234390  
Ion Ratio Lower Upper  
119 100  
91 67.7 0.0 136.4  
134 23.5 0.0 47.2



#80  
1,2,4-Trimethylbenzene  
Concen: 19.873 ug/l  
RT: 13.04 min Scan# 3505  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

Tgt Ion:105 Resp: 280534  
Ion Ratio Lower Upper  
105 100  
120 44.7 0.0 89.2

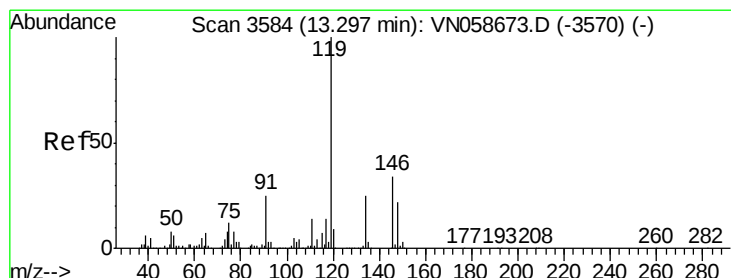
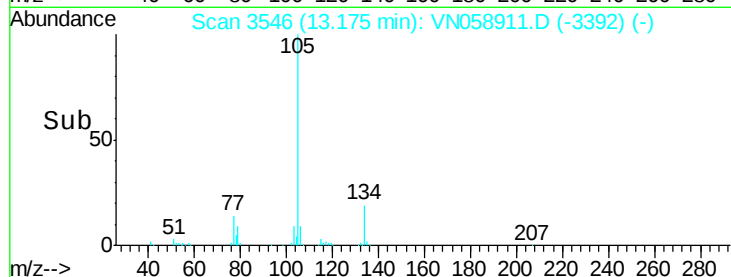
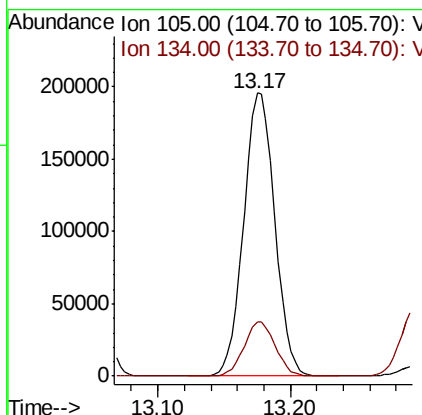
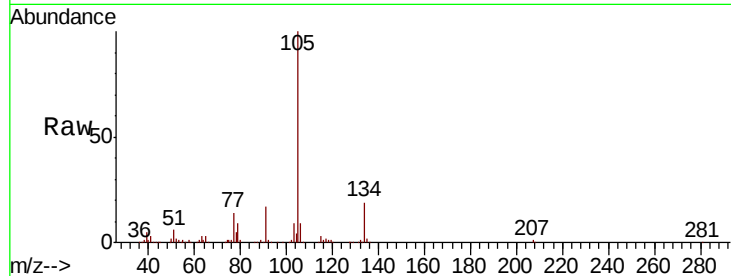




#81  
 sec-Butylbenzene  
 Concen: 19.545 ug/l  
 RT: 13.17 min Scan# 3546  
 Delta R.T. -0.00 min  
 Lab File: VN058911.D  
 Acq: 22 Oct 2019 16:08

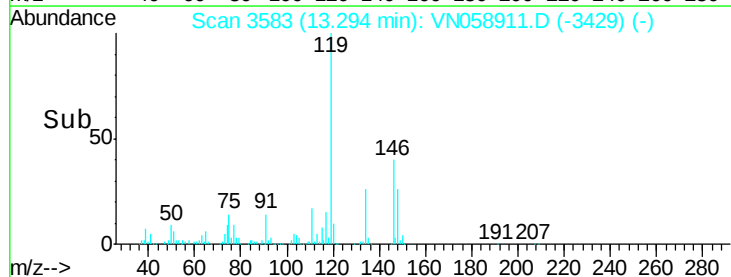
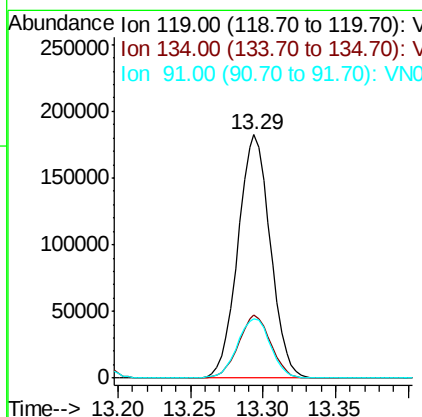
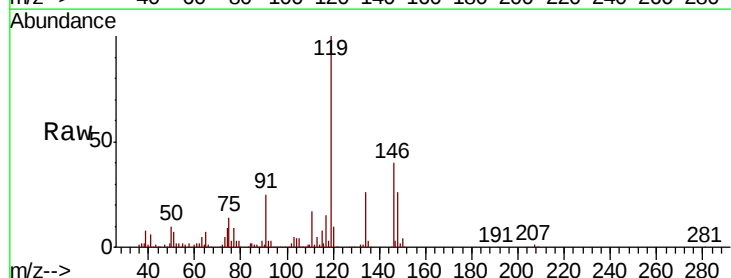
Instrument :  
 MSVOA\_N  
 ClientSampled :

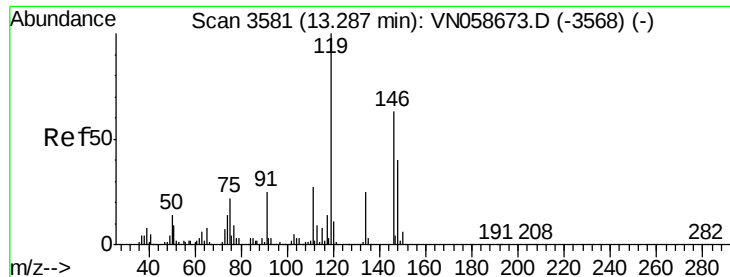
Tot Ion:105 Resp: 319249  
 Ion Ratio Lower Upper  
 105 100  
 134 19.2 0.0 38.0



#82  
 p-Isopropyltoluene  
 Concen: 19.310 ug/l  
 RT: 13.29 min Scan# 3583  
 Delta R.T. -0.00 min  
 Lab File: VN058911.D  
 Acq: 22 Oct 2019 16:08

Tgt Ion:119 Resp: 283230  
 Ion Ratio Lower Upper  
 119 100  
 134 25.6 0.0 50.8  
 91 25.4 0.0 49.4

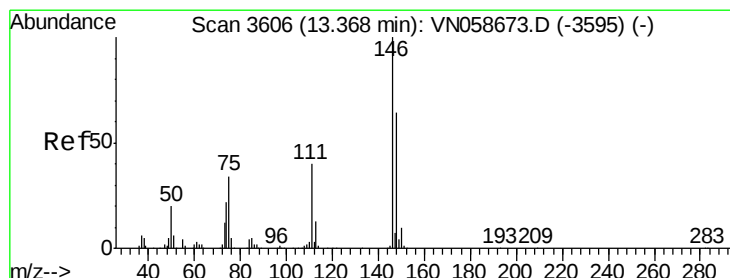
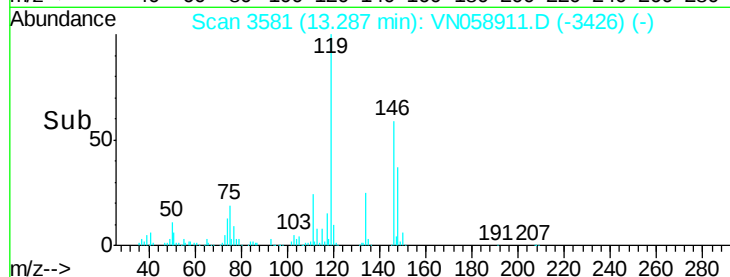
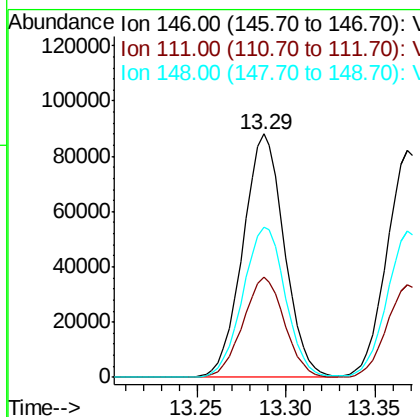
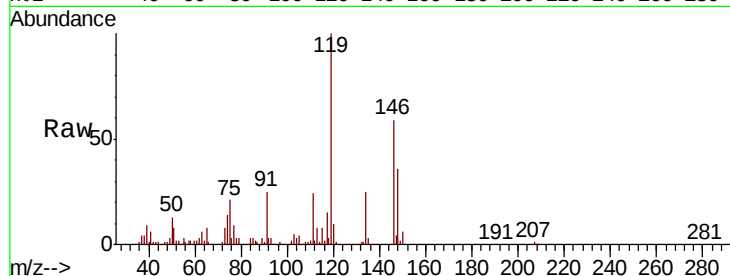




#83  
 1,3-Dichlorobenzene  
 Concen: 19.568 ug/l  
 RT: 13.29 min Scan# 3581  
 Delta R.T. -0.00 min  
 Lab File: VN058911.D  
 Acq: 22 Oct 2019 16:08

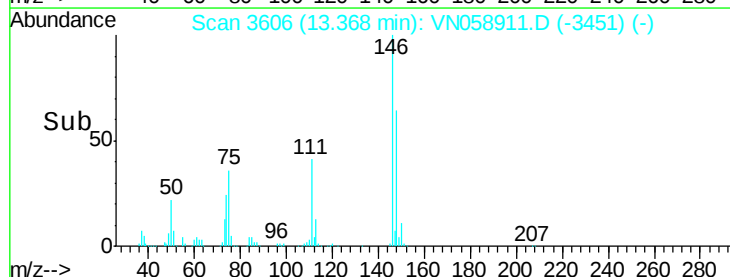
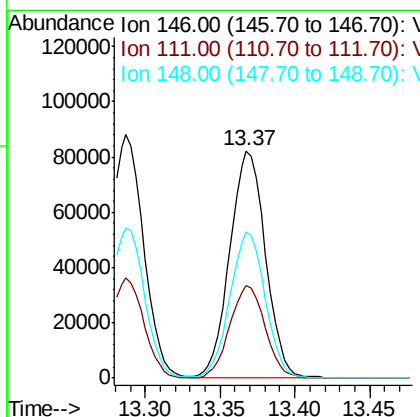
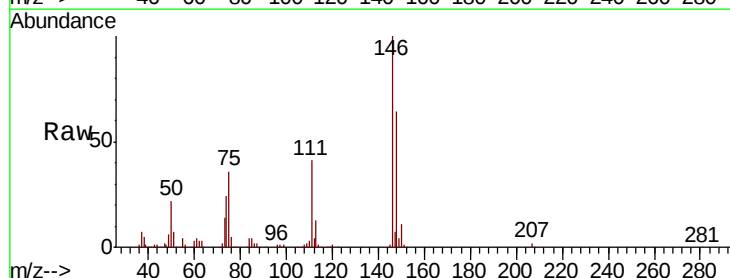
Instrument :  
 MSVOA\_N  
 ClientSampled :

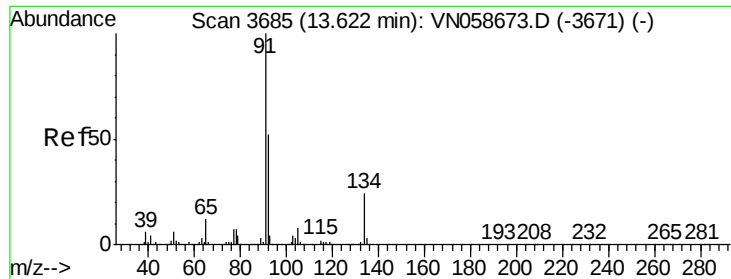
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.2  | 21.0  | 63.0  |
| 148     | 63.5  | 31.7  | 95.1  |



#84  
 1,4-Dichlorobenzene  
 Concen: 18.717 ug/l  
 RT: 13.37 min Scan# 3606  
 Delta R.T. -0.00 min  
 Lab File: VN058911.D  
 Acq: 22 Oct 2019 16:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.4  | 19.8  | 59.4  |
| 148     | 63.4  | 31.6  | 94.8  |

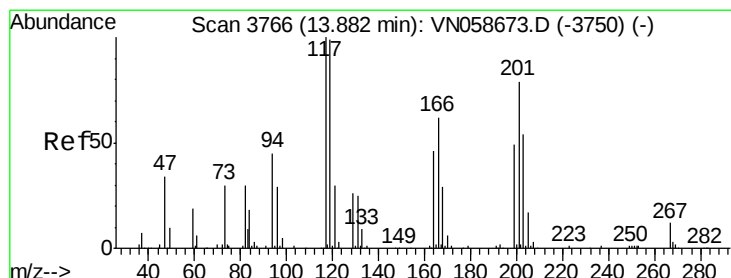
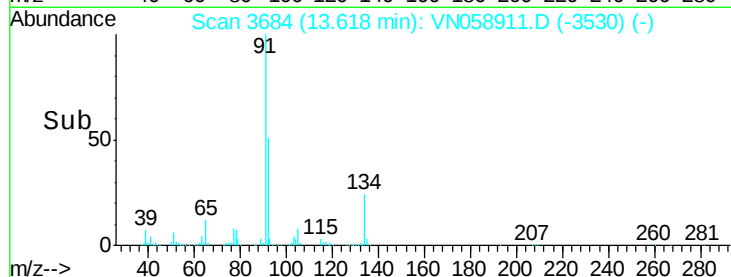
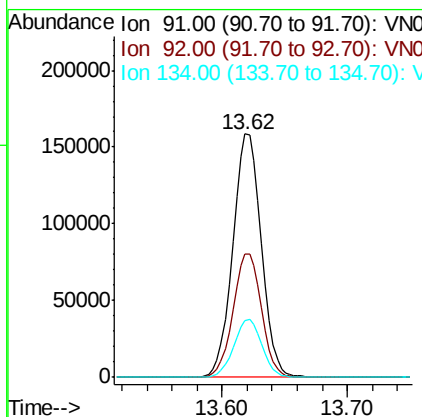
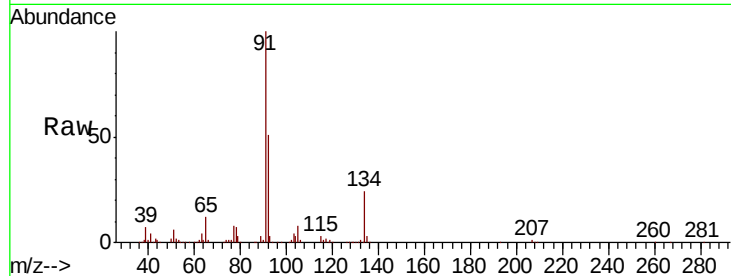




#85  
n-Butylbenzene  
Concen: 18.597 ug/l  
RT: 13.62 min Scan# 3684  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

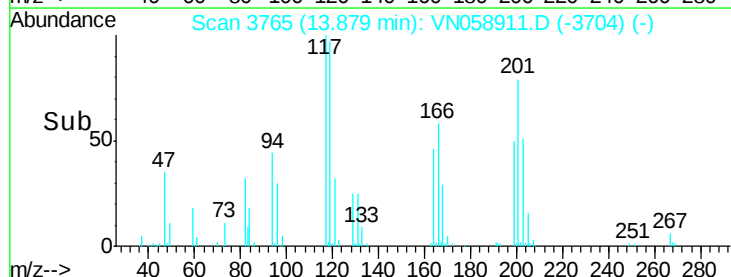
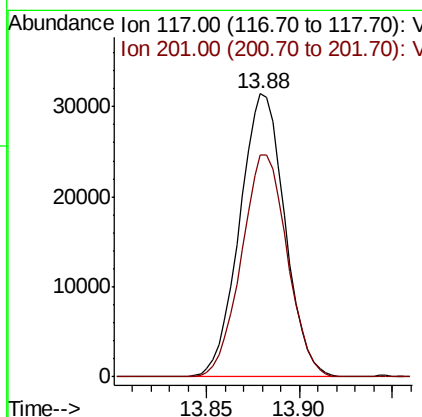
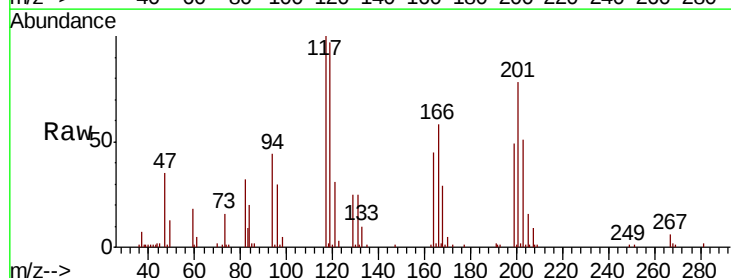
Instrument :  
MSVOA\_N  
ClientSampleId :

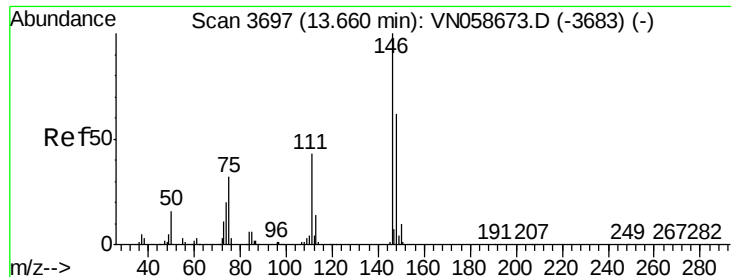
Tot Ion: 91 Resp: 249728  
Ion Ratio Lower Upper  
91 100  
92 50.5 0.0 102.8  
134 23.7 0.0 48.6



#86  
Hexachloroethane  
Concen: 20.019 ug/l  
RT: 13.88 min Scan# 3765  
Delta R.T. -0.00 min  
Lab File: VN058911.D  
Acq: 22 Oct 2019 16:08

Tgt Ion: 117 Resp: 53437  
Ion Ratio Lower Upper  
117 100  
201 79.3 38.7 116.1





#87

1,2-Dichlorobenzene

Concen: 19.651 ug/l

RT: 13.66 min Scan# 3697

Delta R.T. -0.00 min

Lab File: VN058911.D

Acq: 22 Oct 2019 16:08

Instrument :

MSVOA\_N

ClientSampled :

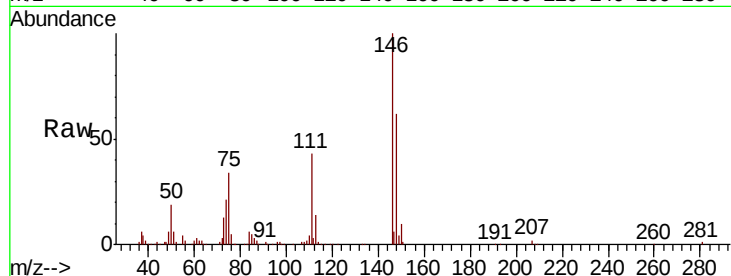
Tot Ion:146 Resp: 141420

Ion Ratio Lower Upper

146 100

111 43.6 21.8 65.4

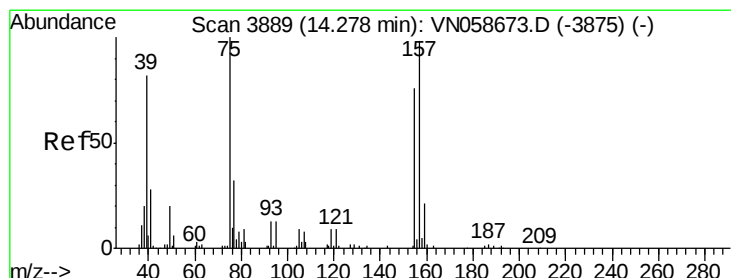
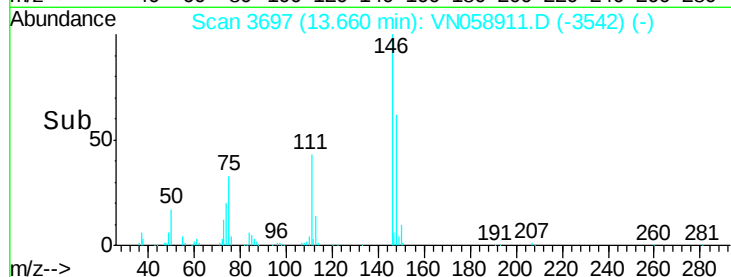
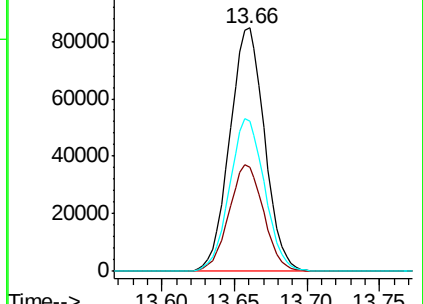
148 63.1 32.1 96.5



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: 18.678 ug/l

RT: 14.28 min Scan# 3889

Delta R.T. -0.00 min

Lab File: VN058911.D

Acq: 22 Oct 2019 16:08

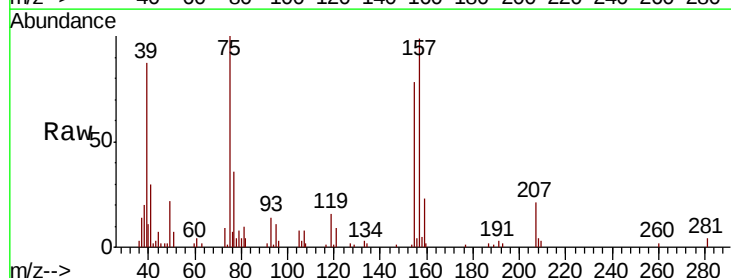
Tgt Ion: 75 Resp: 23213

Ion Ratio Lower Upper

75 100

155 73.2 58.3 87.5

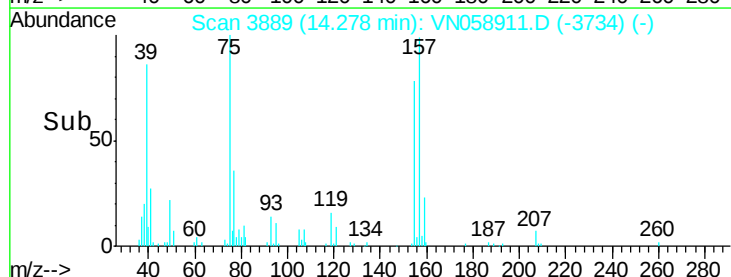
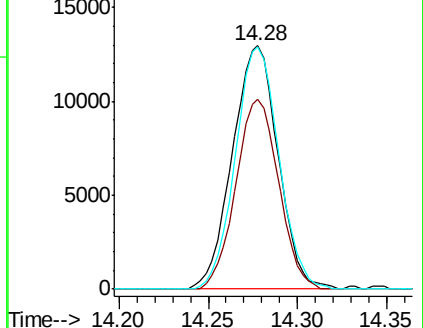
157 94.7 75.0 112.6

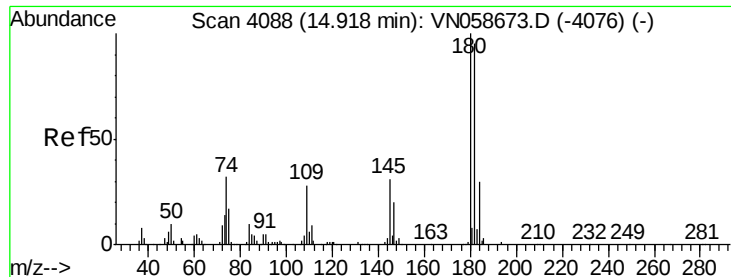


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

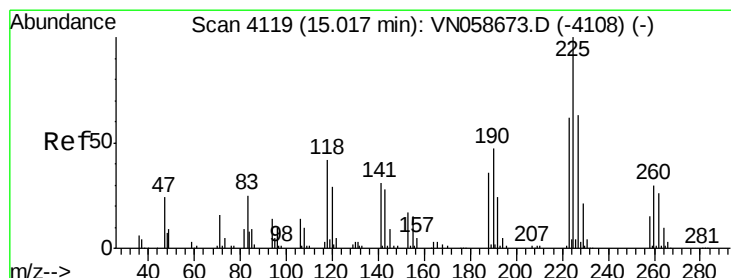
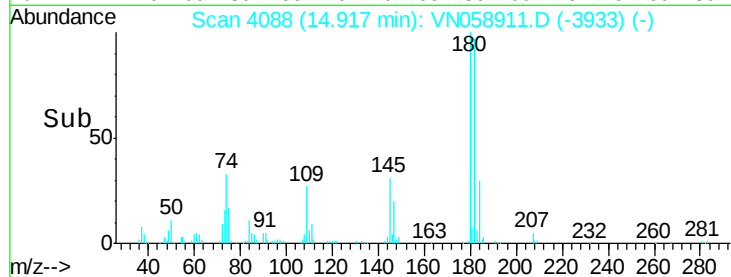
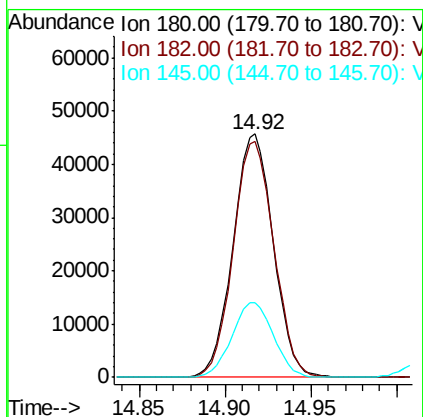
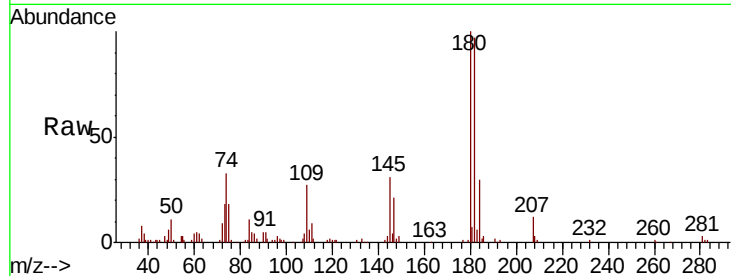




#89  
 1,2,4-Trichlorobenzene  
 Concen: 16.415 ug/l  
 RT: 14.92 min Scan# 4088  
 Delta R.T. -0.00 min  
 Lab File: VN058911.D  
 Acq: 22 Oct 2019 16:08

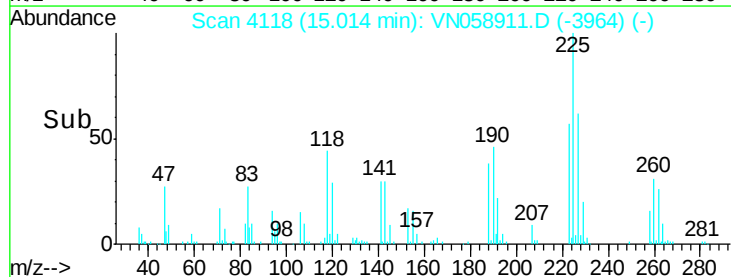
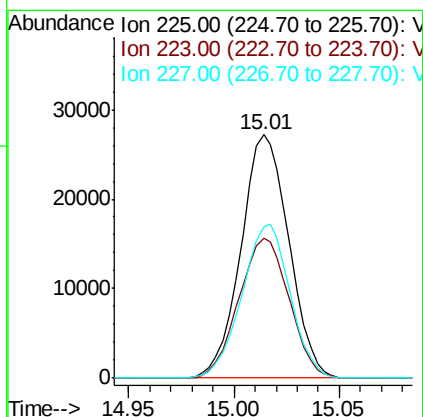
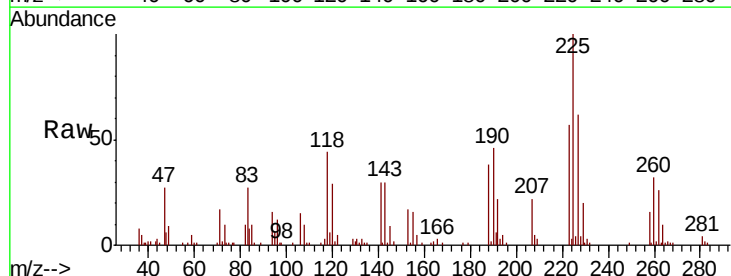
Instrument :  
 MSVOA\_N  
 ClientSampled :

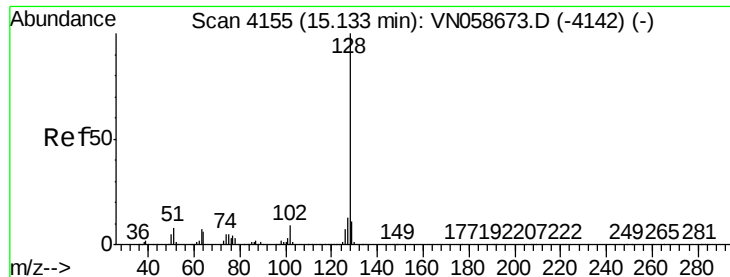
Tot Ion:180 Resp: 74594  
 Ion Ratio Lower Upper  
 180 100  
 182 97.5 75.3 112.9  
 145 31.7 24.8 37.2



#90  
 Hexachlorobutadiene  
 Concen: 18.283 ug/l  
 RT: 15.01 min Scan# 4118  
 Delta R.T. -0.00 min  
 Lab File: VN058911.D  
 Acq: 22 Oct 2019 16:08

Tgt Ion:225 Resp: 42902  
 Ion Ratio Lower Upper  
 225 100  
 223 60.4 0.0 126.2  
 227 63.5 0.0 127.0





#91

Naphthalene

Concen: 15.371 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN058911.D

Acq: 22 Oct 2019 16:08

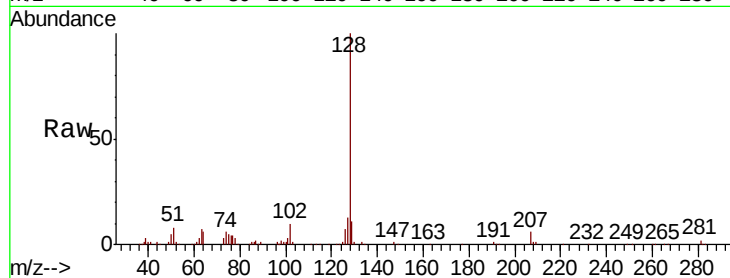
Instrument :

MSVOA\_N

ClientSampleId :

Tot Ion:128 Resp: 206236

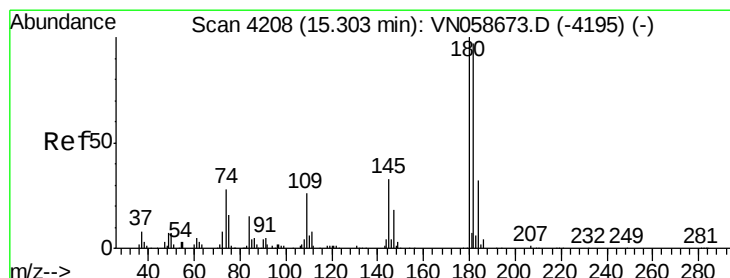
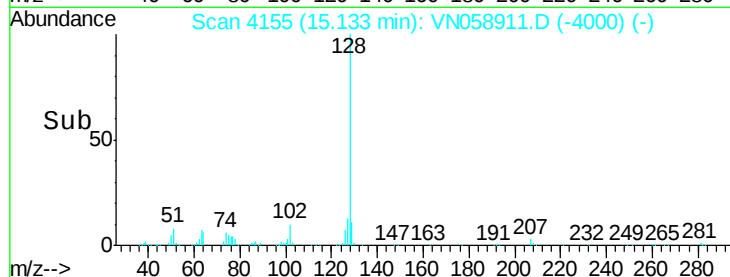
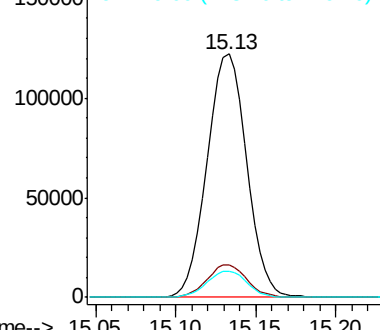
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 13.3  | 10.2  | 15.2  |
| 129 | 10.9  | 8.6   | 13.0  |



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: 17.012 ug/l

RT: 15.30 min Scan# 4207

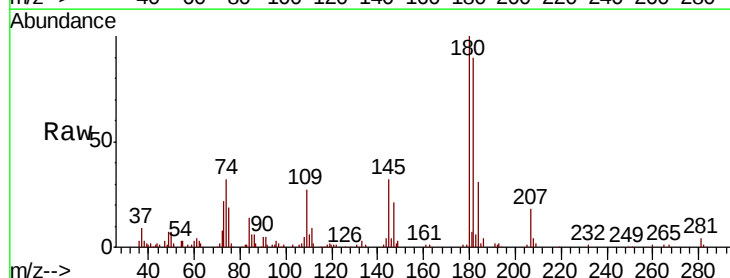
Delta R.T. -0.00 min

Lab File: VN058911.D

Acq: 22 Oct 2019 16:08

Tgt Ion:180 Resp: 75255

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 93.1  | 0.0   | 193.4 |
| 145 | 33.2  | 0.0   | 65.8  |



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

