

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102418\  
 Data File : VN051980.D  
 Acq On : 24 Oct 2018 11:47  
 Operator : MD\SY  
 Sample : VN1024WBS02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 8 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 24 14:30:55 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101218W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Oct 12 10:23:44 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.20  | 128  | 163458   | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.73  | 114  | 347      | 30.00 | ug/l  | 0.14     |
| 57) Chlorobenzene-d5    | 11.41 | 117  | 847702   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 8.03   | 65    | 286939   | 28.85    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 96.17%  |
| 60) 4-Bromofluorobenzene  | 12.40  | 95    | 368094   | 30.11    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 100.37% |
| 63) Toluene-d8            | 10.09  | 98    | 1072606  | 29.14    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 97.13%  |

## Target Compounds

|                               |      |     |        |            | Ovalue     |
|-------------------------------|------|-----|--------|------------|------------|
| 2) Dichlorodifluoromethane    | 1.85 | 85  | 135974 | 21.412     | ug/l 99    |
| 3) Chloromethane              | 2.06 | 50  | 121463 | 18.098     | ug/l 99    |
| 4) Vinyl Chloride             | 2.19 | 62  | 153568 | 15.322     | ug/l 98    |
| 5) Bromomethane               | 2.57 | 94  | 160809 | 18.159     | ug/l 87    |
| 6) Chloroethane               | 2.71 | 64  | 111352 | 15.416     | ug/l 98    |
| 7) Trichlorofluoromethane     | 3.03 | 101 | 287104 | 20.092     | ug/l 94    |
| 8) Diethyl Ether              | 3.41 | 74  | 84241  | 20.251     | ug/l 70    |
| 9) 1,1,2-Trichlorotrifluoroet | 3.77 | 101 | 176008 | 21.629     | ug/l # 36  |
| 10) 1,1-Dichloroethene        | 3.74 | 96  | 157299 | 20.901     | ug/l 83    |
| 11) Methyl Iodide             | 3.96 | 142 | 255975 | 23.398     | ug/l 92    |
| 12) Methyl Acetate            | 4.32 | 43  | 95943  | 20.530     | ug/l # 84  |
| 13) Acrolein                  | 3.77 | 56  | 150    | 0.487      | ug/l 83    |
| 14) Acrylonitrile             | 4.99 | 53  | 203080 | 97.230     | ug/l # 60  |
| 15) Acetone                   | 3.81 | 58  | 50703  | 98.201     | ug/l 95    |
| 16) Carbon Disulfide          | 4.06 | 76  | 353788 | 17.900     | ug/l 100   |
| 17) Allyl chloride            | 4.33 | 41  | 154552 | 17.298     | ug/l 77    |
| 18) Methylene Chloride        | 4.56 | 84  | 176420 | 20.966     | ug/l # 86  |
| 19) trans-1,2-Dichloroethene  | 5.05 | 96  | 174376 | 20.292     | ug/l # 78  |
| 20) Diisopropyl ether         | 5.95 | 45  | 376590 | 18.925     | ug/l # 85  |
| 21) 1,1-Dichloroethane        | 5.85 | 63  | 272547 | 19.602     | ug/l # 98  |
| 22) cis-1,2-Dichloroethene    | 6.83 | 96  | 205307 | 20.341     | ug/l # 80  |
| 23) tert-Butyl Alcohol        | 4.78 | 59  | 43075  | 78.306     | ug/l # 100 |
| 24) Methyl tert-Butyl Ether   | 5.05 | 73  | 416701 | 19.218     | ug/l # 93  |
| 25) Chloroform                | 7.37 | 83  | 336489 | 20.399     | ug/l 96    |
| 26) Cyclohexane               | 7.65 | 56  | 220832 | 18.734     | ug/l # 68  |
| 29) 1,1-Dichloropropene       | 7.79 | 75  | 231482 | 51752.472  | ug/l 93    |
| 30) 2-Butanone                | 6.84 | 43  | 228240 | 244137.997 | ug/l # 87  |
| 31) 2,2-Dichloropropane       | 6.83 | 77  | 248965 | 47315.404  | ug/l # 76  |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97  | 304787 | 51397.022  | ug/l 95    |
| 33) Carbon Tetrachloride      | 7.77 | 117 | 268675 | 50077.909  | ug/l 93    |
| 34) Benzene                   | 8.04 | 78  | 697787 | 52740.021  | ug/l # 65  |
| 35) Methacrylonitrile         | 7.17 | 41  | 50962  | 41490.820  | ug/l 77    |
| 36) 1,2-Dichloroethane        | 8.13 | 62  | 223502 | 52720.553  | ug/l 95    |
| 37) Trichloroethene           | 8.84 | 130 | 223461 | 54408.187  | ug/l 94    |
| 38) Methylcyclohexane         | 9.08 | 83  | 292963 | 51066.364  | ug/l 78    |
| 39) 1,2-Dichloropropane       | 9.12 | 63  | 164514 | 52799.259  | ug/l 94    |
| 40) Dibromomethane            | 9.21 | 93  | 127420 | 55099.812  | ug/l 94    |

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 ALS Vial : 8 Sample Multiplier: 28

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 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 24 14:30:55 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101218W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Oct 12 10:23:44 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc       | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|------------|--------|----------|
| -----                          |       |      |          |            |        |          |
| 41) Bromodichloromethane       | 9.40  | 83   | 241518   | 50562.838  | ug/l   | 94       |
| 42) Vinyl Acetate              | 5.90  | 43   | 1265567  | 240476.272 | ug/l # | 88       |
| 43) Ethyl Acetate              | 6.61  | 43   | 470      | 231.530    | ug/l   | 97       |
| 44) Isopropyl Acetate          | 8.16  | 43   | 196469   | 48455.237  | ug/l   | 92       |
| 45) 1,4-Dioxane                | 9.20  | 88   | 30924    | 949843.745 | ug/l # | 75       |
| 46) Methyl methacrylate        | 9.20  | 41   | 94125    | 50328.353  | ug/l   | 73       |
| 47) n-amyl Acetate             | 11.98 | 43   | 376      | 110.775    | ug/l   | 96       |
| 48) t-1,3-Dichloropropene      | 10.38 | 75   | 222152   | 47692.915  | ug/l   | 97       |
| 49) cis-1,3-Dichloropropene    | 9.84  | 75   | 254128   | 49490.848  | ug/l   | 97       |
| 50) 1,1,2-Trichloroethane      | 10.56 | 97   | 174538   | 54625.871  | ug/l   | 95       |
| 51) Ethyl methacrylate         | 10.43 | 69   | 186196   | 50900.708  | ug/l   | 83       |
| 52) 1,3-Dichloropropane        | 10.71 | 76   | 262773   | 53286.571  | ug/l   | 98       |
| 53) Dibromochloromethane       | 10.90 | 129  | 195693   | 49508.791  | ug/l   | 94       |
| 54) 1,2-Dibromoethane          | 11.00 | 107  | 181240   | 54040.780  | ug/l   | 99       |
| 55) 2-Chloroethyl vinyl ether  | 9.69  | 63   | 488382   | 312308.106 | ug/l # | 91       |
| 56) Bromoform                  | 12.13 | 173  | 116460   | 44675.034  | ug/l   | 96       |
| 58) 4-Methyl-2-Pentanone       | 9.99  | 43   | 536610   | 94.594     | ug/l # | 86       |
| 59) 2-Hexanone                 | 10.75 | 43   | 364513   | 95.246     | ug/l # | 89       |
| 61) Tetrachloroethene          | 10.63 | 164  | 208521   | 19.235     | ug/l   | 95       |
| 62) Toluene                    | 10.16 | 91   | 842891   | 20.015     | ug/l   | 97       |
| 64) Chlorobenzene              | 11.43 | 112  | 572289   | 20.750     | ug/l   | 97       |
| 65) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 203478   | 19.221     | ug/l   | 99       |
| 66) Ethyl Benzene              | 11.51 | 91   | 928878   | 19.958     | ug/l   | 99       |
| 67) m/p-Xylenes                | 11.62 | 106  | 749728   | 39.732     | ug/l   | 96       |
| 68) o-Xylene                   | 11.95 | 106  | 373769   | 20.093     | ug/l   | 85       |
| 69) Styrene                    | 11.96 | 104  | 590142   | 20.677     | ug/l   | 95       |
| 70) Isopropylbenzene           | 12.25 | 105  | 993336   | 20.025     | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 196413   | 20.050     | ug/l   | 94       |
| 72) 1,2,3-Trichloropropane     | 12.55 | 75   | 228890   | 29.700     | ug/l   | 79       |
| 73) Bromobenzene               | 12.53 | 156  | 266619   | 21.699     | ug/l   | 79       |
| 74) n-propylbenzene            | 12.59 | 91   | 1082100  | 20.280     | ug/l   | 94       |
| 75) 2-Chlorotoluene            | 12.67 | 91   | 624423   | 19.961     | ug/l   | 90       |
| 76) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 817947   | 19.940     | ug/l   | 98       |
| 77) t-1,4-Dichloro-2-butene    | 12.30 | 75   | 39904    | 15.656     | ug/l   | 97       |
| 78) 4-Chlorotoluene            | 12.77 | 91   | 647936   | 21.081     | ug/l   | 90       |
| 79) tert-butylbenzene          | 12.99 | 119  | 763256   | 20.233     | ug/l   | 92       |
| 80) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 828355   | 20.205     | ug/l   | 96       |
| 81) sec-Butylbenzene           | 13.17 | 105  | 1006948  | 20.405     | ug/l   | 96       |
| 82) p-Isopropyltoluene         | 13.29 | 119  | 910190   | 20.611     | ug/l   | 96       |
| 83) 1,3-Dichlorobenzene        | 13.28 | 146  | 483425   | 22.297     | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene        | 13.36 | 146  | 476997   | 23.370     | ug/l   | 98       |
| 85) n-Butylbenzene             | 13.62 | 91   | 715846   | 21.497     | ug/l   | 95       |
| 86) Hexachloroethane           | 13.87 | 117  | 128633   | 16.894     | ug/l   | 94       |
| 87) 1,2-Dichlorobenzene        | 13.65 | 146  | 469490   | 22.367     | ug/l   | 96       |
| 88) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 26589    | 18.175     | ug/l # | 68       |
| 89) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 244870   | 25.403     | ug/l   | 97       |
| 90) Hexachlorobutadiene        | 15.01 | 225  | 137826   | 20.376     | ug/l   | 96       |
| 91) Naphthalene                | 15.13 | 128  | 473838   | 25.038     | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene     | 15.31 | 180  | 213691   | 22.377     | ug/l   | 93       |
| -----                          |       |      |          |            |        |          |

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Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 8 Sample Multiplier: 28

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Oct 24 14:30:55 2018  
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Oct 12 10:23:44 2018  
Response via : Initial Calibration

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

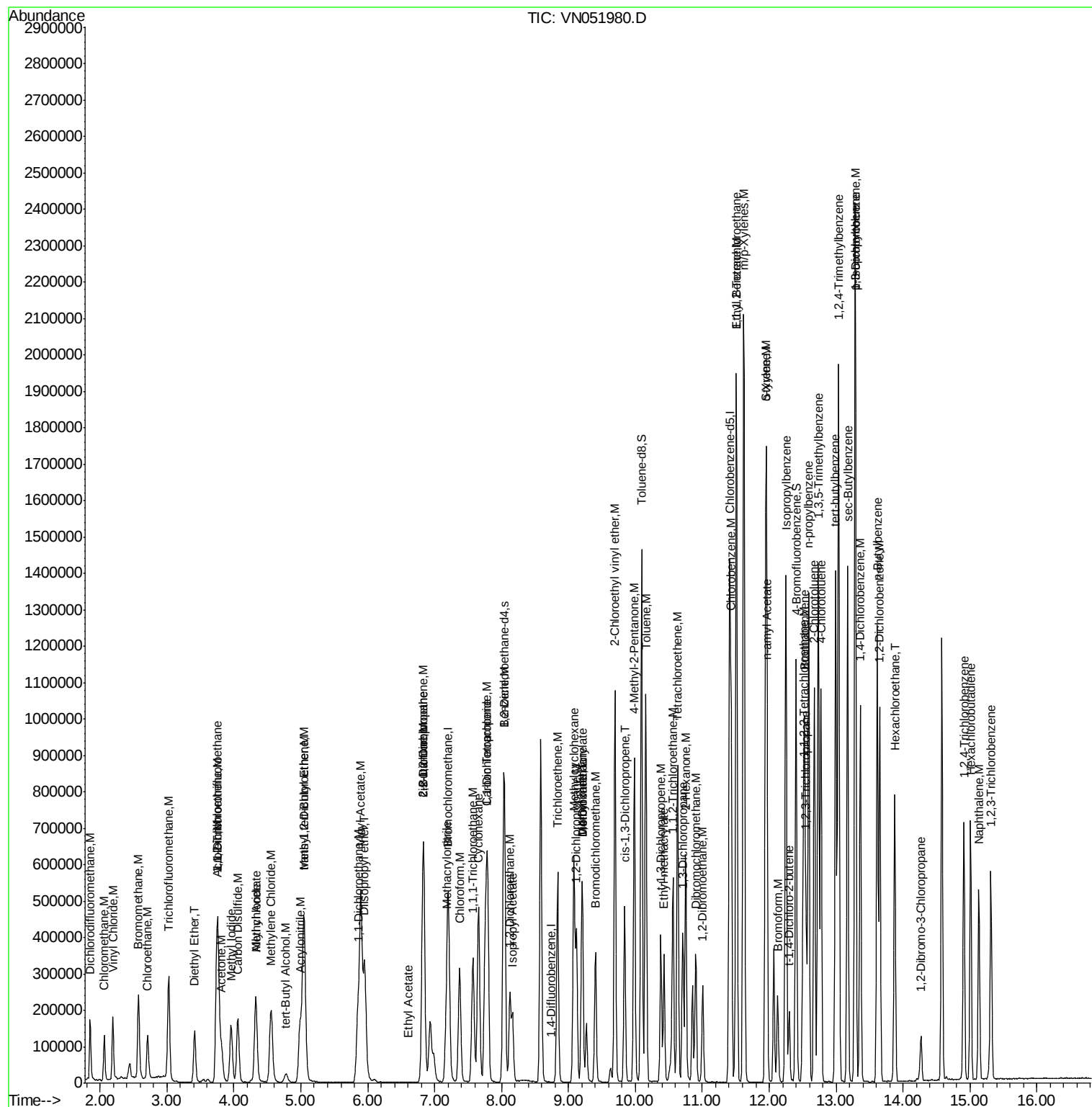
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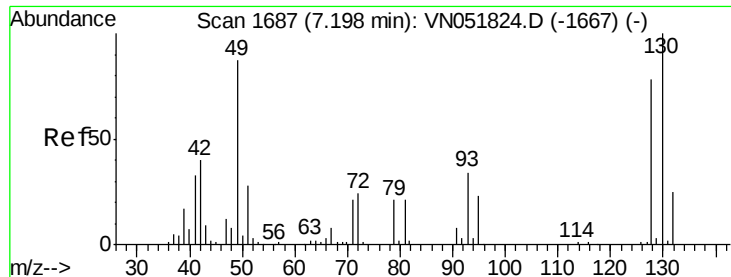
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101218W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Oct 12 10:23:44 2018  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN051980.D

Acq: 24 Oct 2018 11:47

Instrument :  
MSVOA\_N  
ClientSampleId :

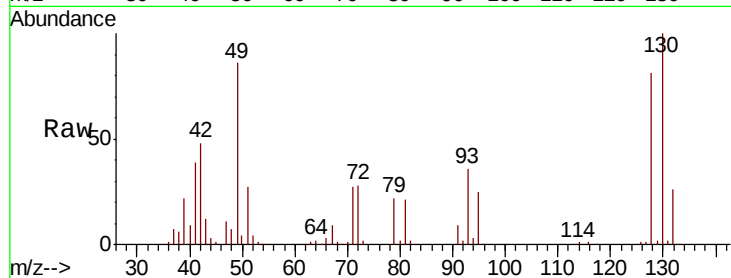
Tot Ion:128 Resp: 163458

Ion Ratio Lower Upper

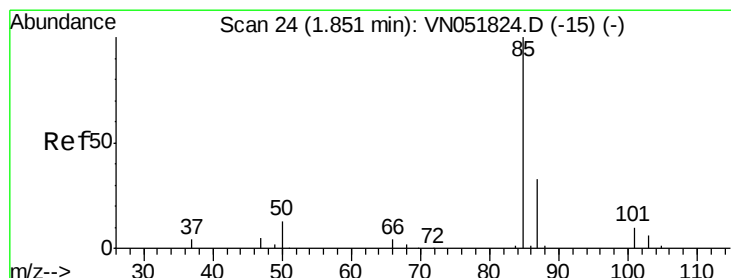
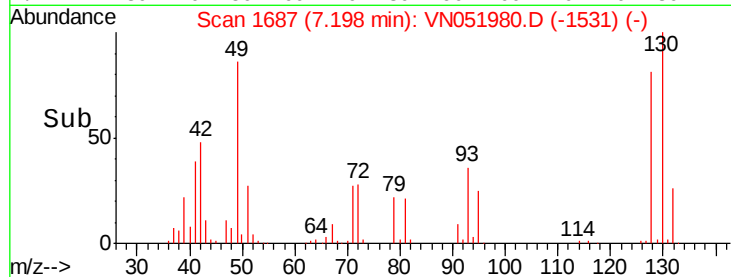
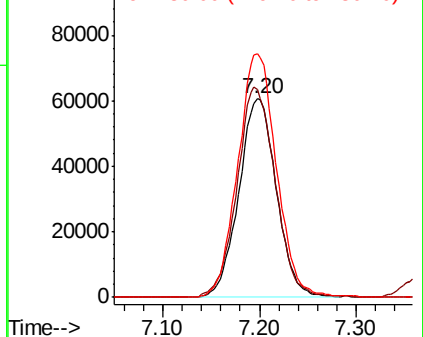
128 100

49 108.0 0.0 403.3

130 126.2 0.0 326.0



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



#2

Dichlorodifluoromethane

Concen: 21.412 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN051980.D

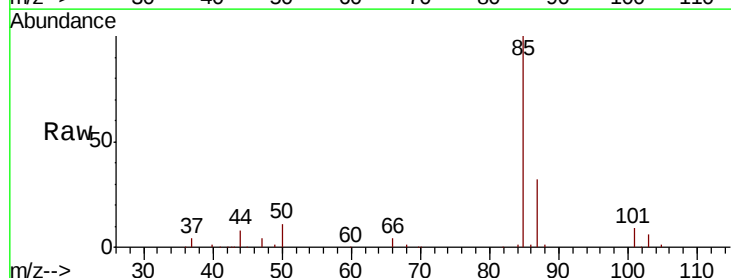
Acq: 24 Oct 2018 11:47

Tgt Ion: 85 Resp: 135974

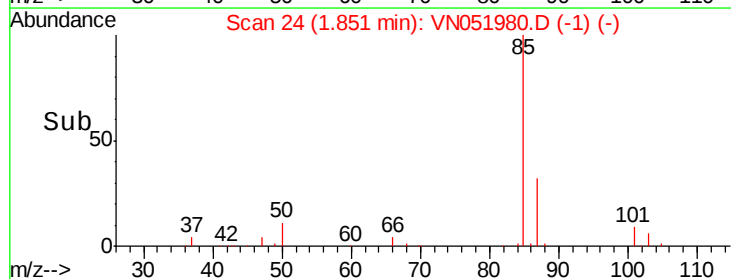
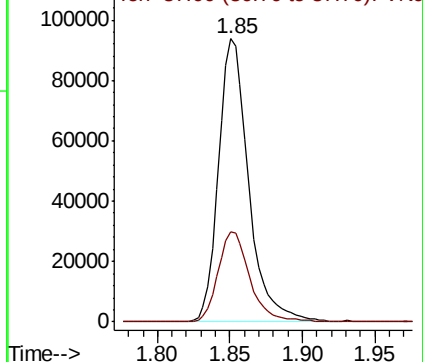
Ion Ratio Lower Upper

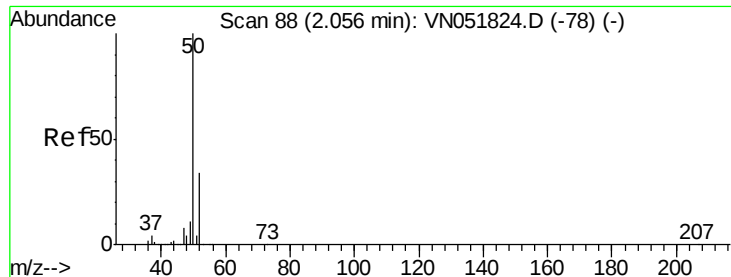
85 100

87 31.7 16.3 48.8



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





#3

Chloromethane

Concen: 18.098 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN051980.D

Acq: 24 Oct 2018 11:47

Instrument :

MSVOA\_N

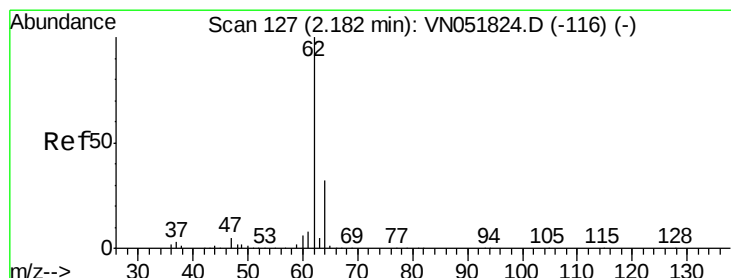
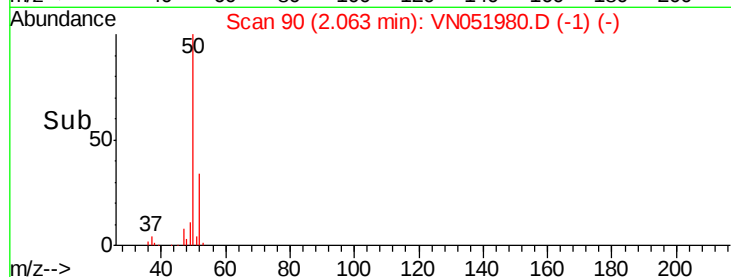
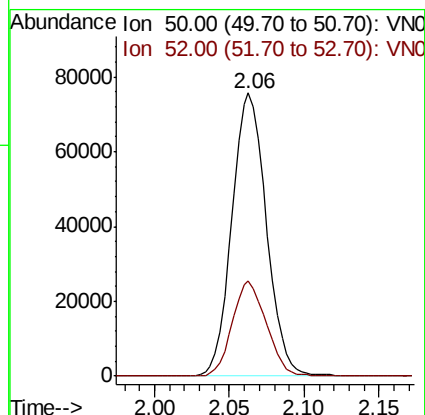
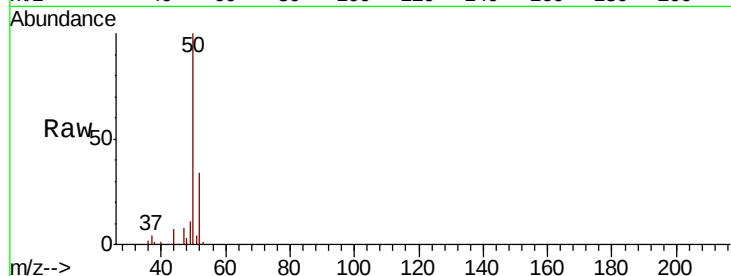
ClientSampleId :

Tot Ion: 50 Resp: 121463

Ion Ratio Lower Upper

50 100

52 33.5 27.2 40.8



#4

Vinyl Chloride

Concen: 15.322 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.01 min

Lab File: VN051980.D

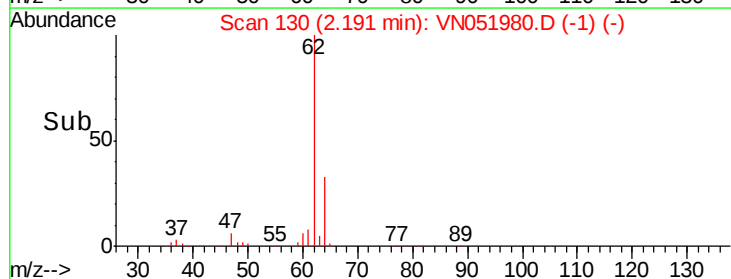
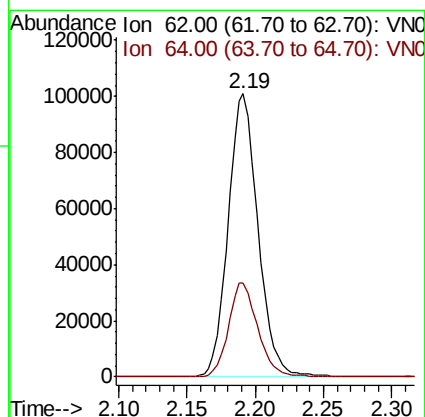
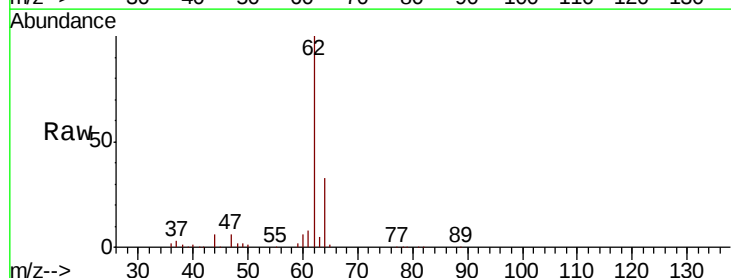
Acq: 24 Oct 2018 11:47

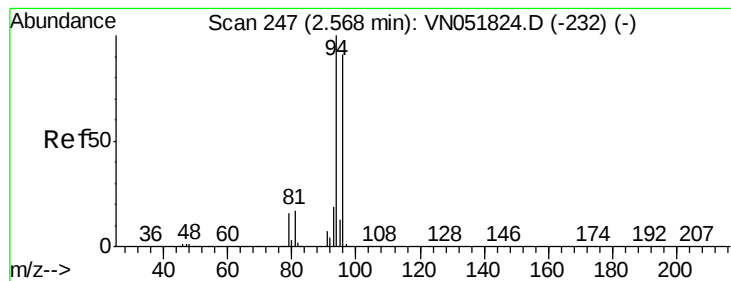
Tgt Ion: 62 Resp: 153568

Ion Ratio Lower Upper

62 100

64 33.2 25.4 38.2





#5

Bromomethane

Concen: 18.159 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.01 min

Lab File: VN051980.D

Acq: 24 Oct 2018 11:47

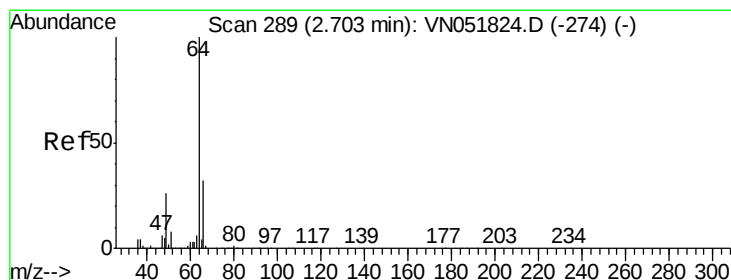
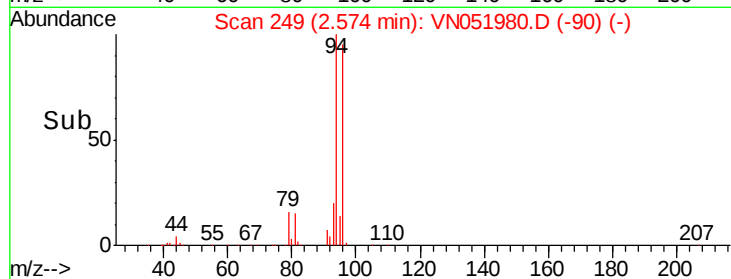
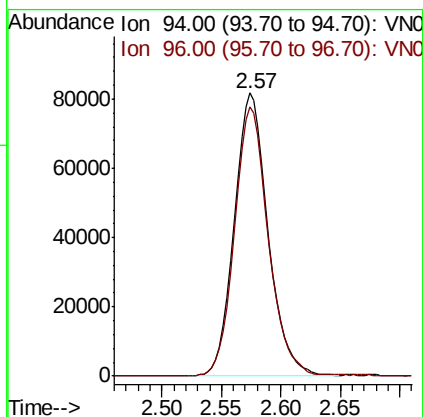
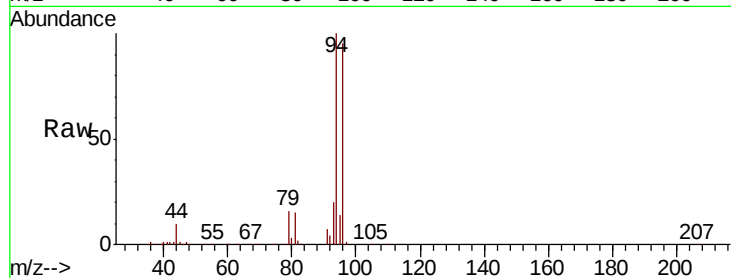
Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 94 Resp: 160809

Ion Ratio Lower Upper

94 100

96 94.7 66.4 99.6



#6

Chloroethane

Concen: 15.416 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.01 min

Lab File: VN051980.D

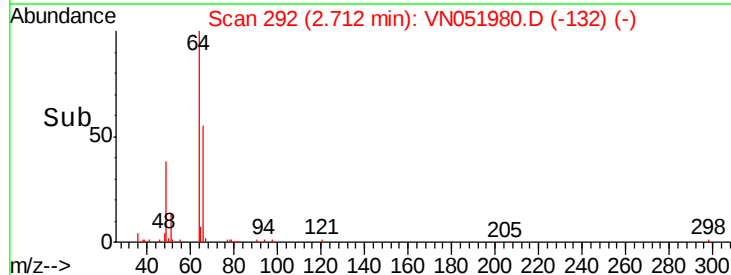
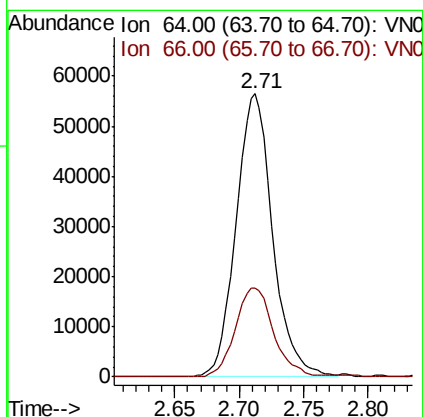
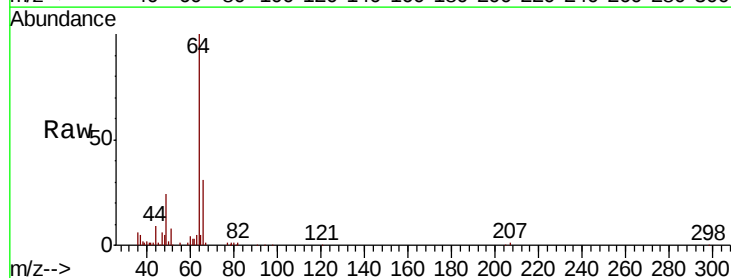
Acq: 24 Oct 2018 11:47

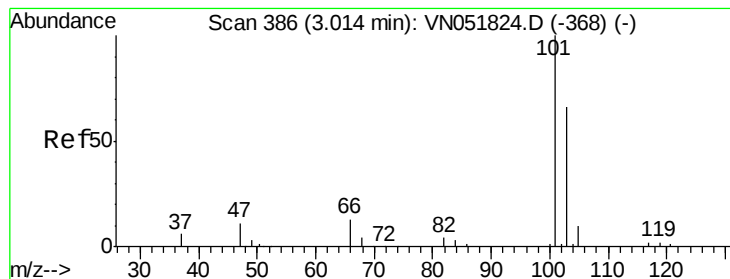
Tgt Ion: 64 Resp: 111352

Ion Ratio Lower Upper

64 100

66 31.0 25.8 38.6



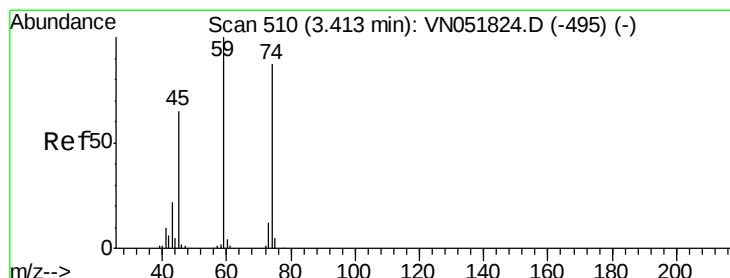
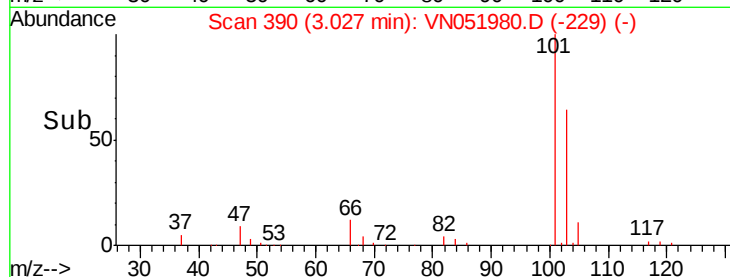
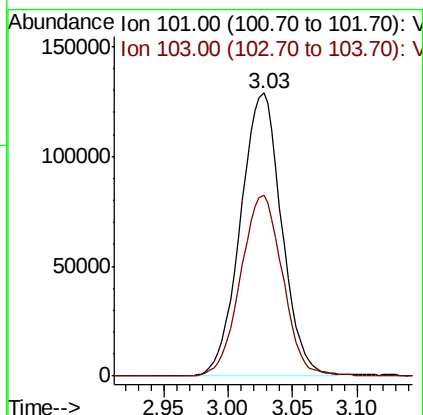
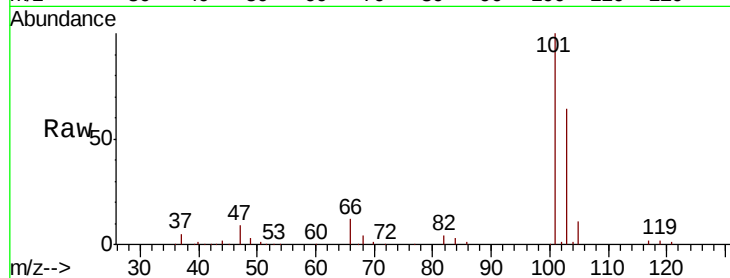


#7

Trichlorofluoromethane  
Concen: 20.092 ug/l  
RT: 3.03 min Scan# 390  
Delta R.T. 0.02 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

Instrument :  
MSVOA\_N  
ClientSampled :

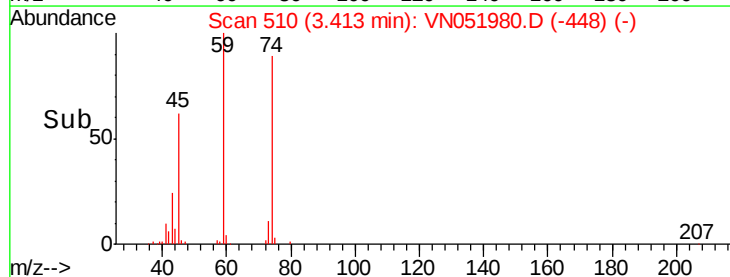
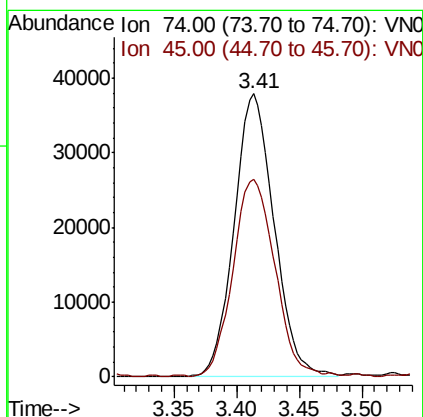
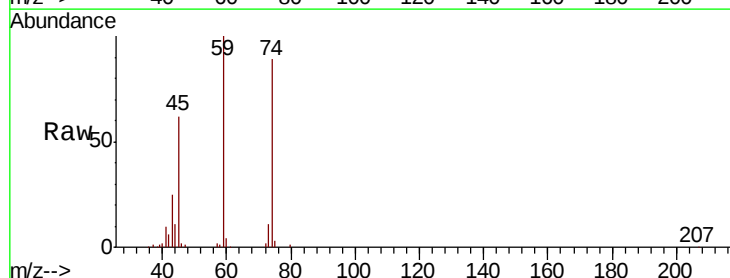
Tot Ion:101 Resp: 287104  
Ion Ratio Lower Upper  
101 100  
103 63.9 54.8 82.2

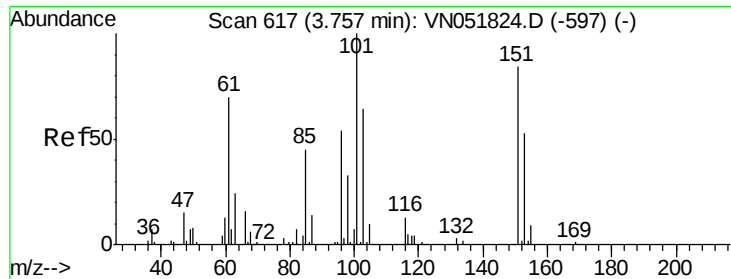


#8

Diethyl Ether  
Concen: 20.251 ug/l  
RT: 3.41 min Scan# 510  
Delta R.T. 0.00 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

Tgt Ion: 74 Resp: 84241  
Ion Ratio Lower Upper  
74 100  
45 73.2 20.7 186.5

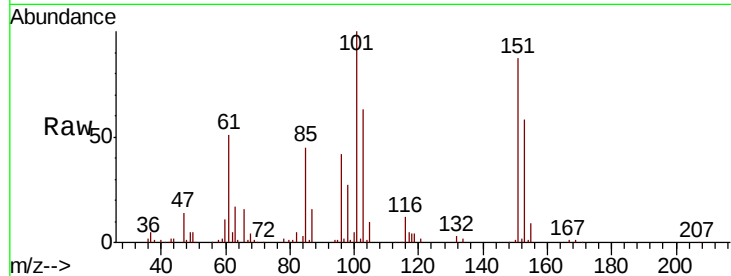




#9  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 21.629 ug/l  
 RT: 3.77 min Scan# 620  
 Delta R.T. 0.01 min  
 Lab File: VN051980.D  
 Acq: 24 Oct 2018 11:47

Instrument :  
 MSVOA\_N  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 85      | 43.6  | 0.0   | 46.0  |
| 151     | 88.5  | 0.0   | 82.2# |

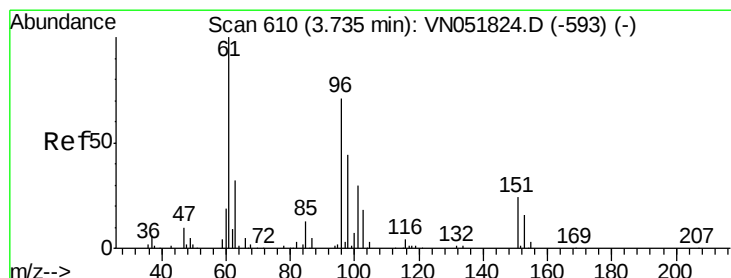
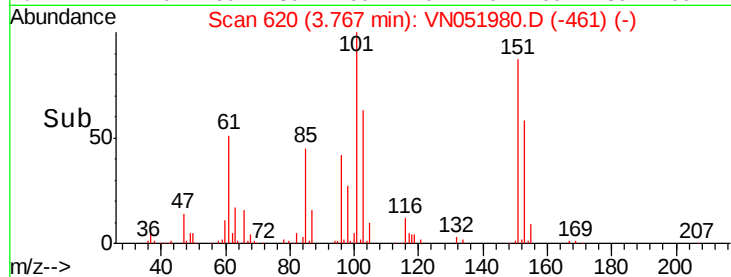
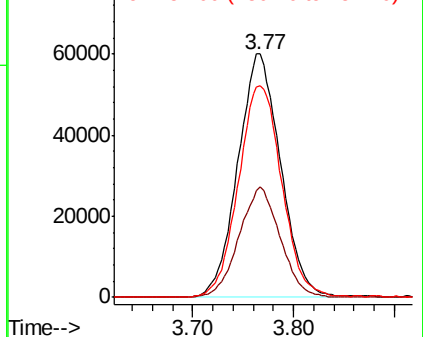


Abundance

Ion 101.00 (100.70 to 101.70): V

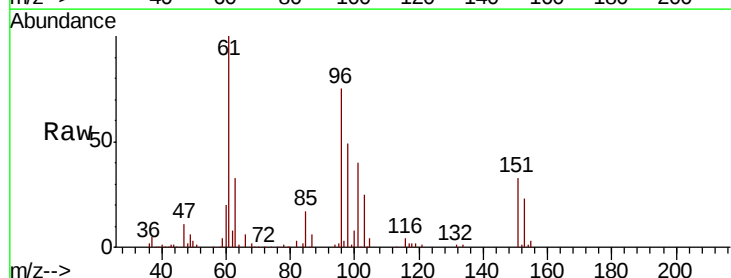
Ion 85.00 (84.70 to 85.70): V

Ion 151.00 (150.70 to 151.70): V



#10  
 1,1-Dichloroethene  
 Concen: 20.901 ug/l  
 RT: 3.74 min Scan# 613  
 Delta R.T. 0.01 min  
 Lab File: VN051980.D  
 Acq: 24 Oct 2018 11:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 133.5 | 133.0 | 199.6 |
| 98      | 65.6  | 52.6  | 78.8  |

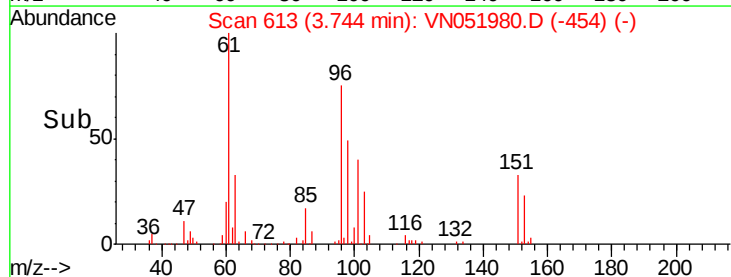
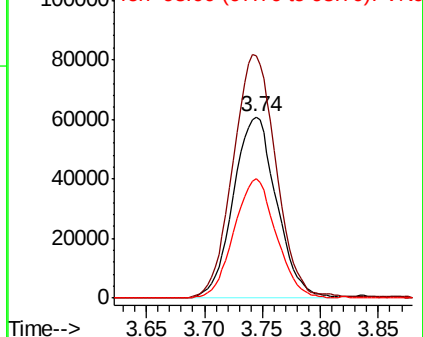


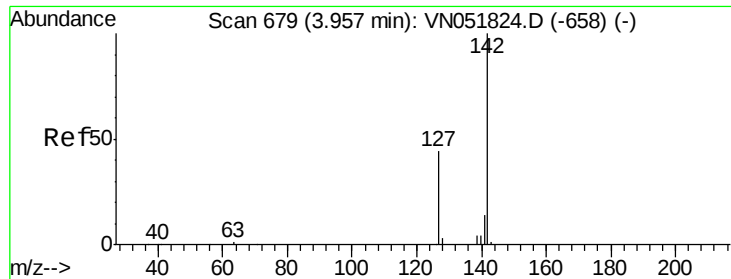
Abundance

Ion 96.00 (95.70 to 96.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 98.00 (97.70 to 98.70): V

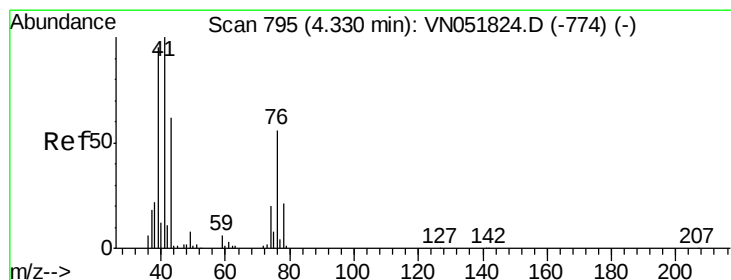
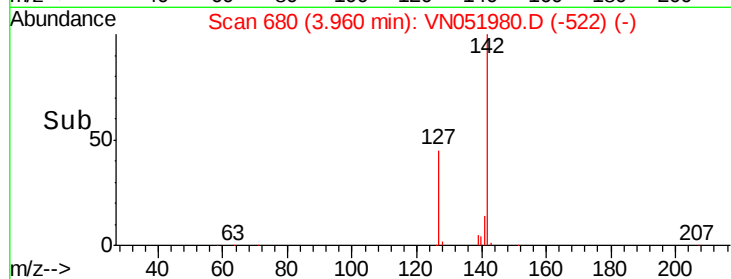
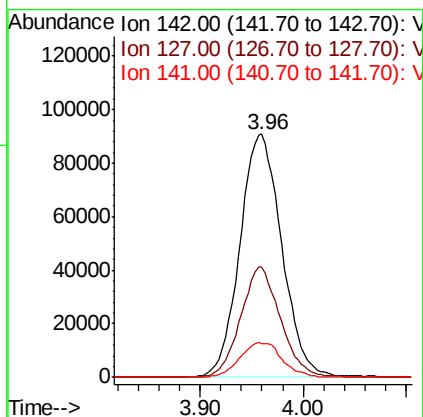
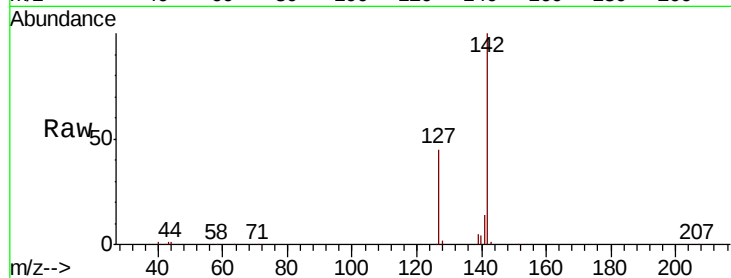




#11  
Methvl Iodide  
Concen: 23.398 ug/l  
RT: 3.96 min Scan# 680  
Delta R.T. 0.01 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

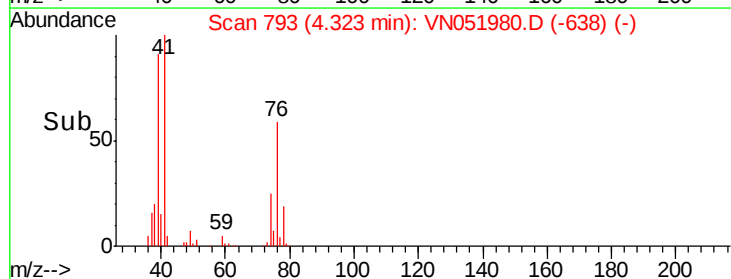
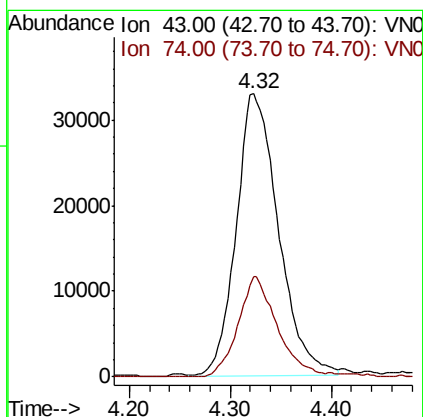
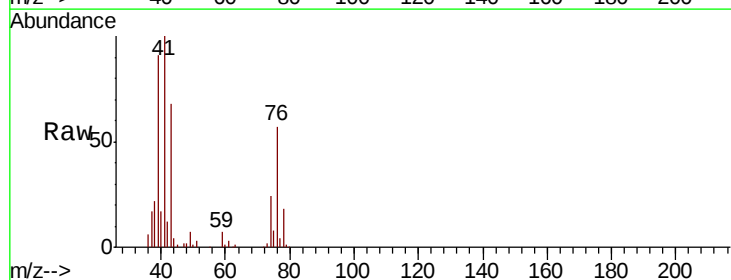
Instrument :  
MSVOA\_N  
ClientSampled :

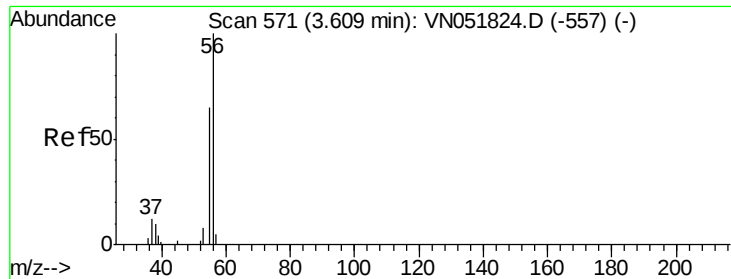
Tot Ion:142 Resp: 255975  
Ion Ratio Lower Upper  
142 100  
127 45.1 19.7 59.0  
141 13.9 6.3 18.9



#12  
Methyl Acetate  
Concen: 20.530 ug/l  
RT: 4.32 min Scan# 793  
Delta R.T. -0.00 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

Tgt Ion: 43 Resp: 95943  
Ion Ratio Lower Upper  
43 100  
74 35.5 21.8 32.6#

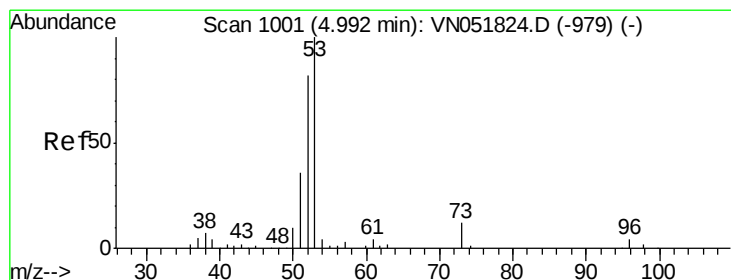
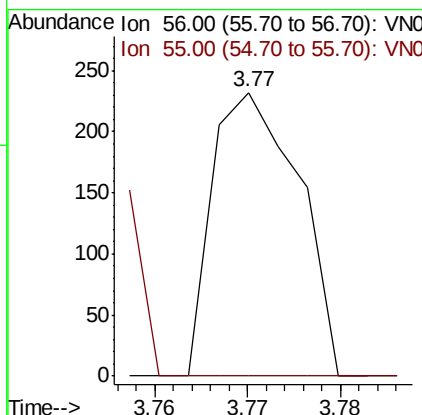
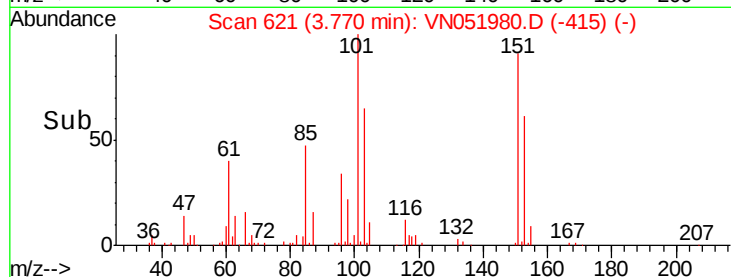
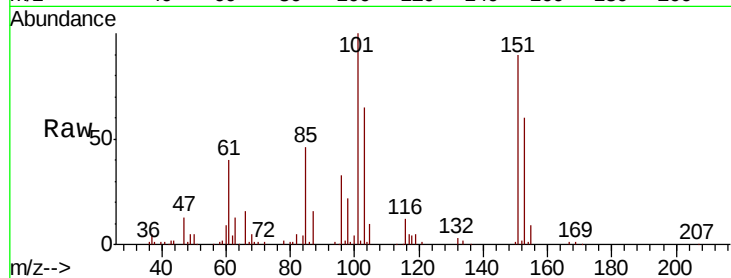




#13  
Acrolein  
Concen: 0.487 ug/l  
RT: 3.77 min Scan# 621  
Delta R.T. 0.16 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

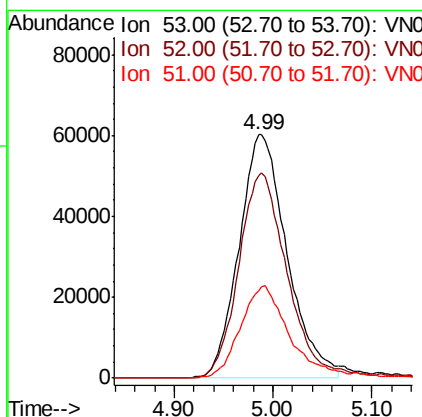
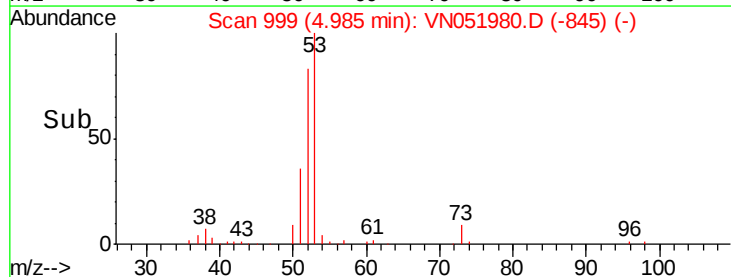
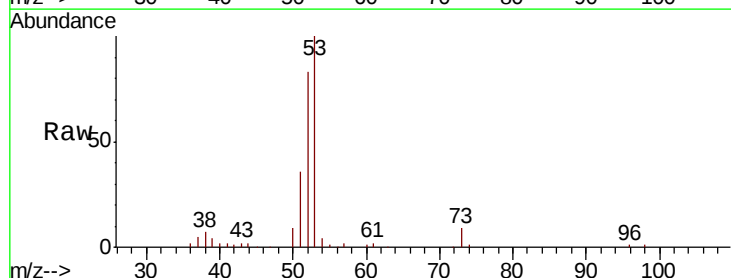
Instrument :  
MSVOA\_N  
ClientSampled :

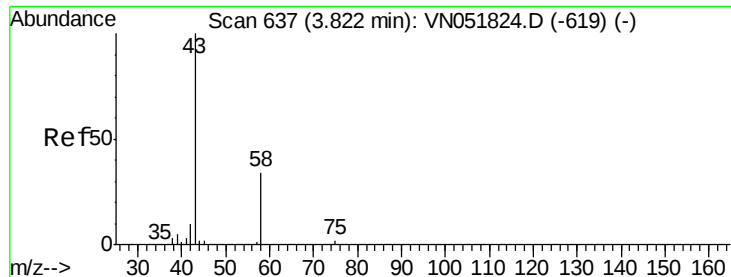
Tot Ion: 56 Resp: 150  
Ion Ratio Lower Upper  
56 100  
55 64.7 64.0 96.0



#14  
Acrylonitrile  
Concen: 97.230 ug/l  
RT: 4.99 min Scan# 999  
Delta R.T. -0.01 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

Tgt Ion: 53 Resp: 203080  
Ion Ratio Lower Upper  
53 100  
52 84.5 18.3 54.8#  
51 38.4 19.7 59.1





#15

Acetone

Concen: 98.201 ug/l

RT: 3.81 min Scan# 634

Delta R.T. -0.01 min

Lab File: VN051980.D

Acq: 24 Oct 2018 11:47

Instrument :

MSVOA\_N

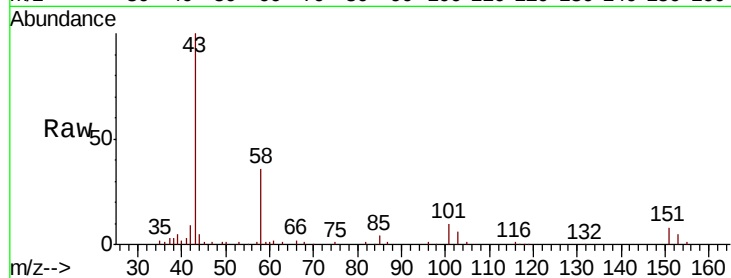
ClientSampleId :

Tot Ion: 58 Resp: 50703

Ion Ratio Lower Upper

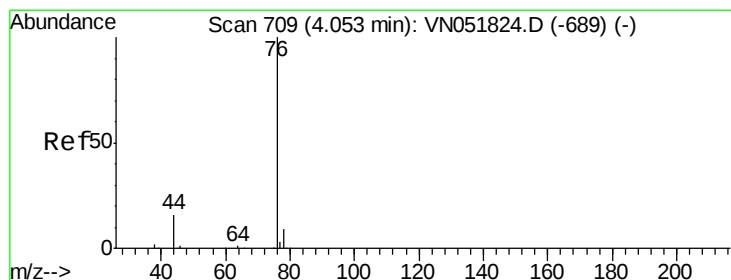
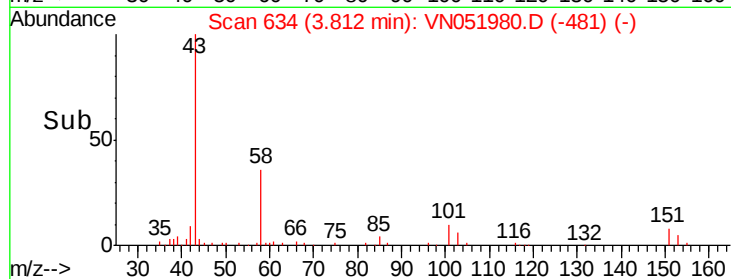
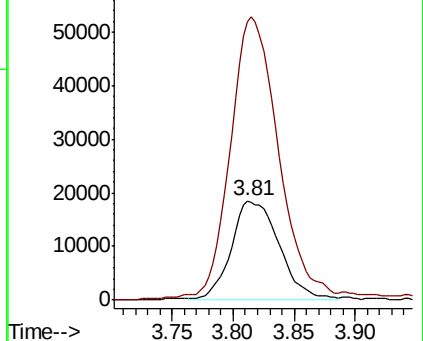
58 100

43 280.3 232.2 348.2



Abundance Ion 58.00 (57.70 to 58.70): VN051824.D (-619) (-)

Ion 43.00 (42.70 to 43.70): VN051824.D (-619) (-)



#16

Carbon Disulfide

Concen: 17.900 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.01 min

Lab File: VN051980.D

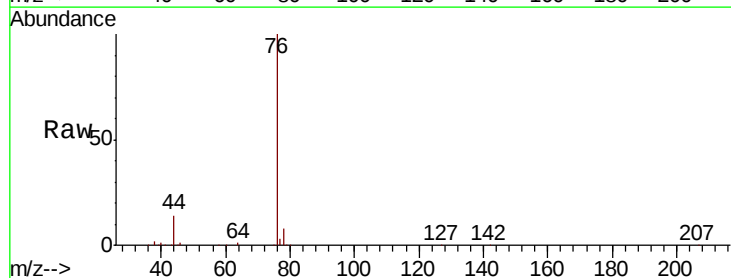
Acq: 24 Oct 2018 11:47

Tgt Ion: 76 Resp: 353788

Ion Ratio Lower Upper

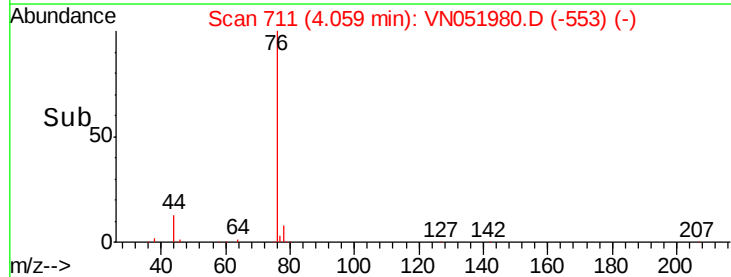
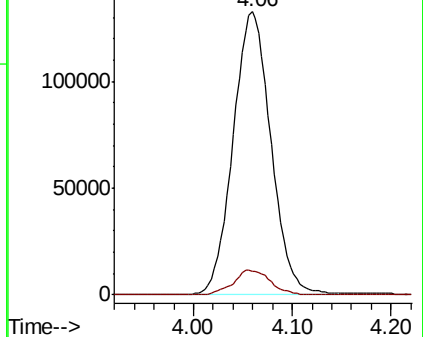
76 100

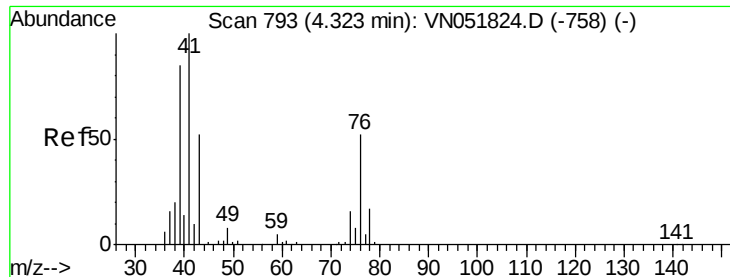
78 8.4 6.7 10.1



Abundance Ion 76.00 (75.70 to 76.70): VN051824.D (-689) (-)

Ion 78.00 (77.70 to 78.70): VN051824.D (-689) (-)

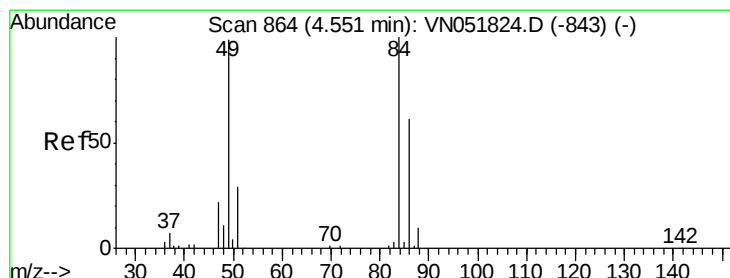
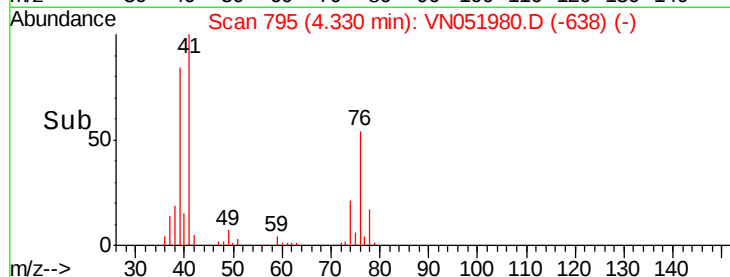
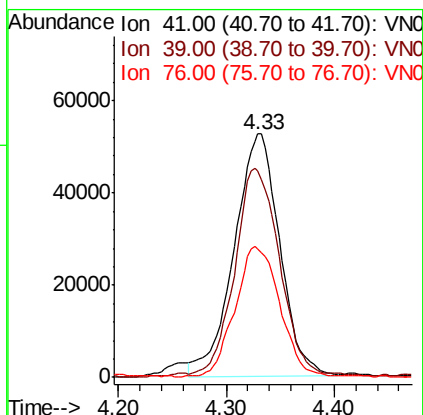
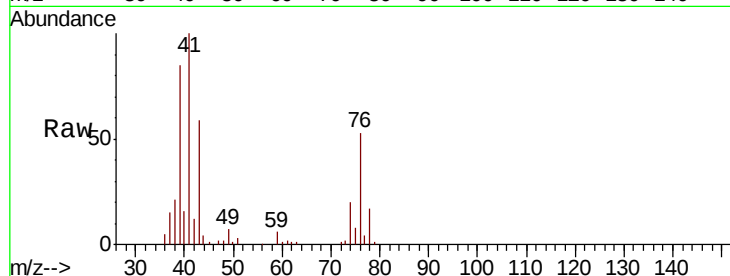




#17  
Allvl chloride  
Concen: 17.298 ug/l  
RT: 4.33 min Scan# 795  
Delta R.T. 0.00 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

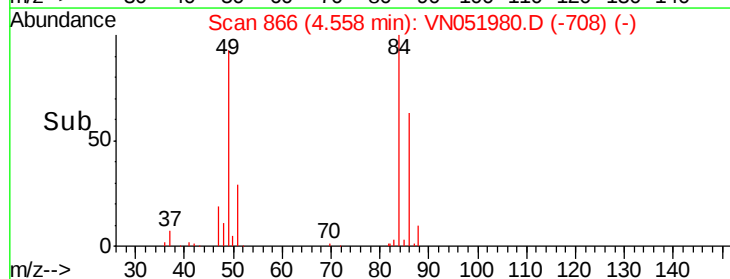
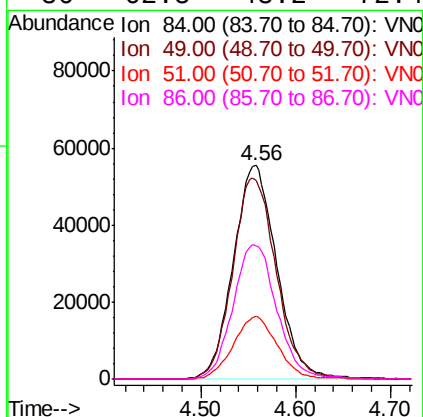
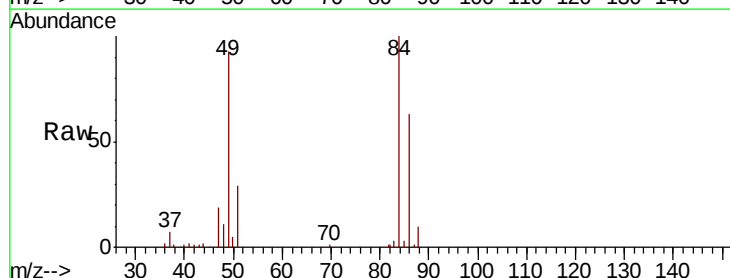
Instrument :  
MSVOA\_N  
ClientSampleId :

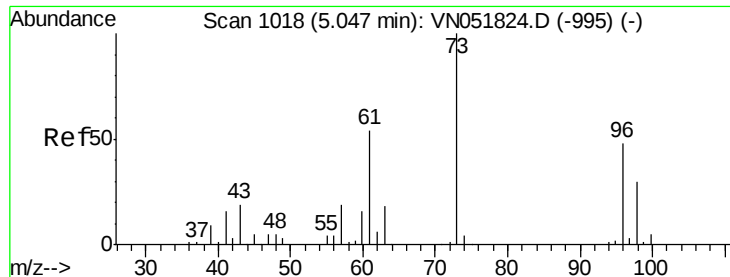
Tot Ion: 41 Resp: 154552  
Ion Ratio Lower Upper  
41 100  
39 84.4 32.6 97.8  
76 52.9 20.2 60.5



#18  
Methylene Chloride  
Concen: 20.966 ug/l  
RT: 4.56 min Scan# 866  
Delta R.T. 0.01 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

Tgt Ion: 84 Resp: 176420  
Ion Ratio Lower Upper  
84 100  
49 92.3 91.6 137.4  
51 29.4 29.8 44.6#  
86 62.5 48.2 72.4

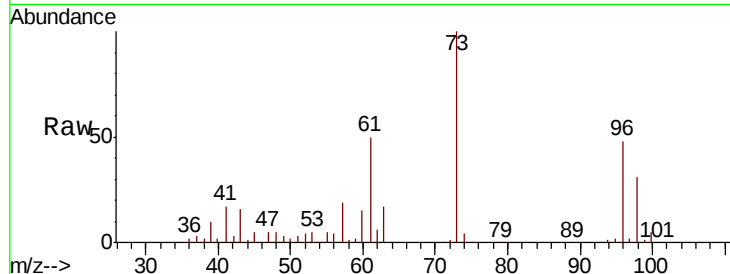




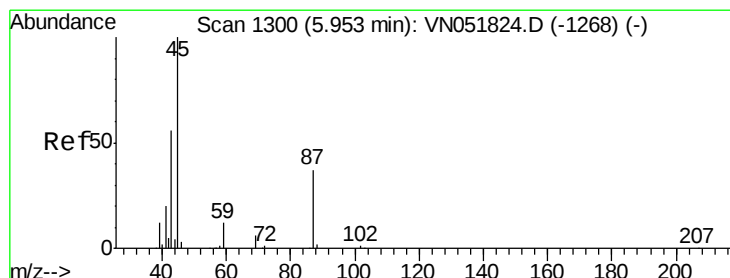
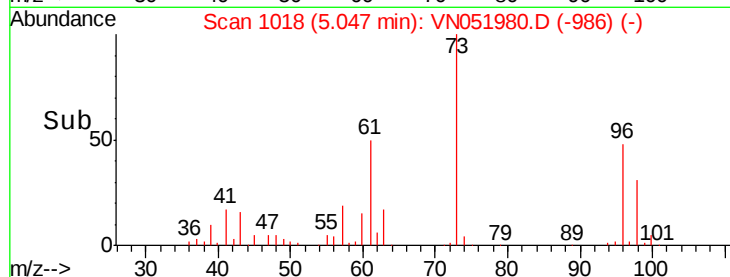
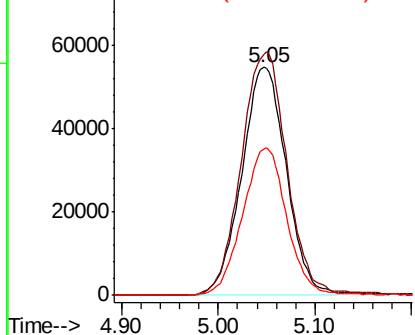
#19  
trans-1,2-Dichloroethene  
Concen: 20.292 ug/l  
RT: 5.05 min Scan# 1018  
Delta R.T. 0.00 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 96 Resp: 174376  
Ion Ratio Lower Upper  
96 100  
61 105.5 112.3 168.5#  
98 64.4 47.1 70.7

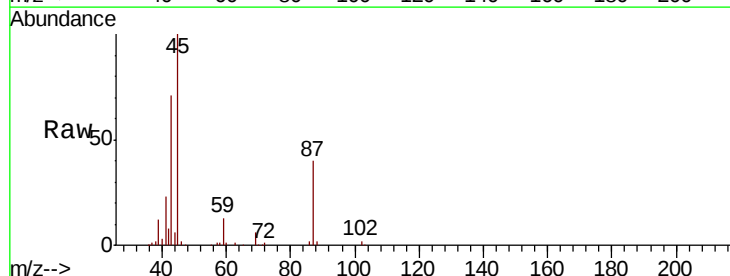


Abundance Ion 96.00 (95.70 to 96.70): VN0  
Ion 61.00 (60.70 to 61.70): VN0  
Ion 98.00 (97.70 to 98.70): VN0

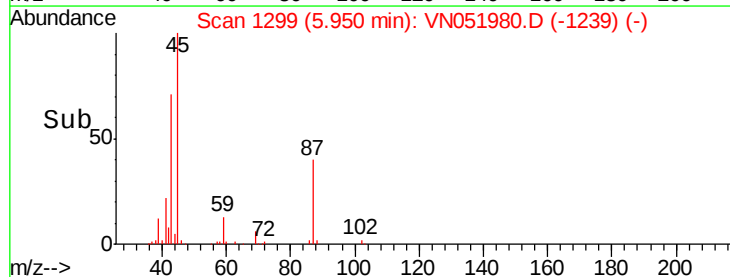
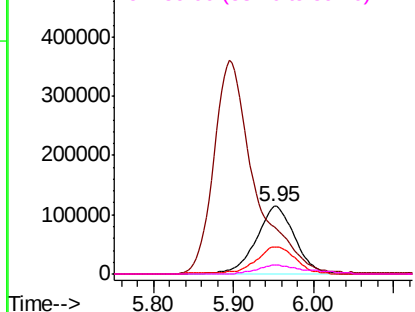


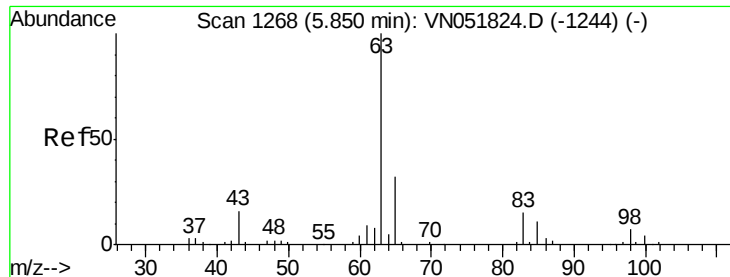
#20  
Diisopropyl ether  
Concen: 18.925 ug/l  
RT: 5.95 min Scan# 1299  
Delta R.T. -0.01 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

Tgt Ion: 45 Resp: 376590  
Ion Ratio Lower Upper  
45 100  
43 67.5 62.1 93.1  
87 40.3 19.9 29.9#  
59 12.4 9.8 14.6



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

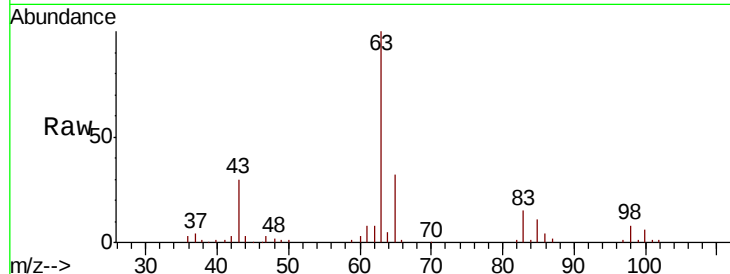




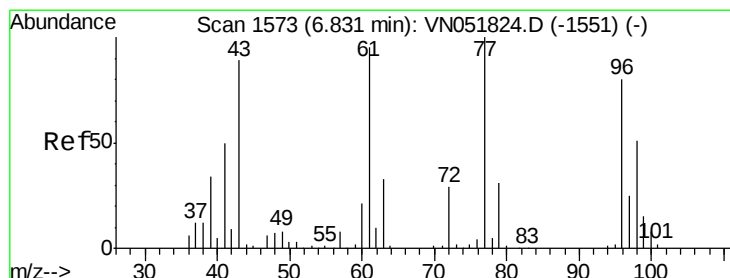
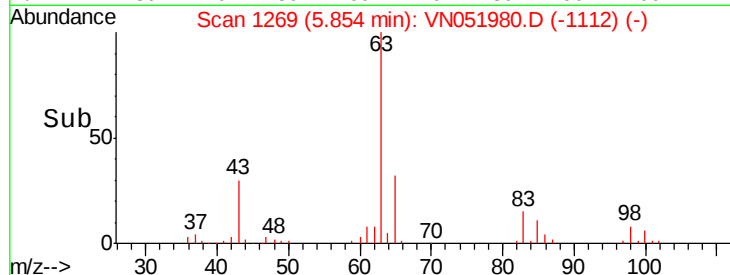
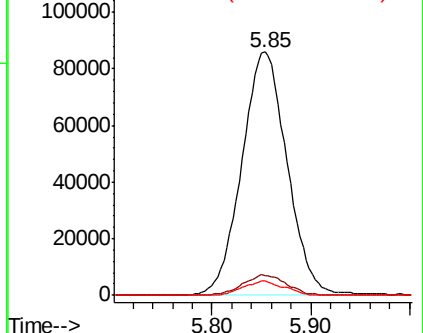
#21  
 1,1-Dichloroethane  
 Concen: 19.602 ug/l  
 RT: 5.85 min Scan# 1269  
 Delta R.T. 0.00 min  
 Lab File: VN051980.D  
 Acq: 24 Oct 2018 11:47

Instrument :  
 MSVOA\_N  
 ClientSampled :

| Tot Ion   | 63    | Resp  | 272547 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 63        | 100   |       |        |
| 98        | 8.2   | 4.1   | 12.3   |
| 100       | 6.0   | 1.6   | 4.7#   |

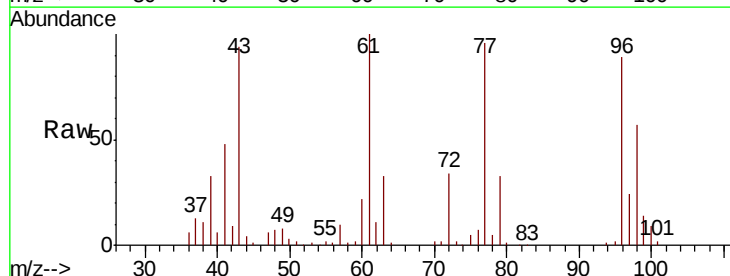


Abundance Ion 63.00 (62.70 to 63.70): VN0  
 Ion 98.00 (97.70 to 98.70): VN0  
 Ion 100.00 (99.70 to 100.70): VN0

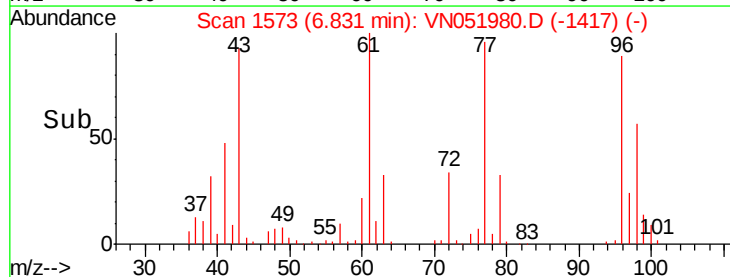
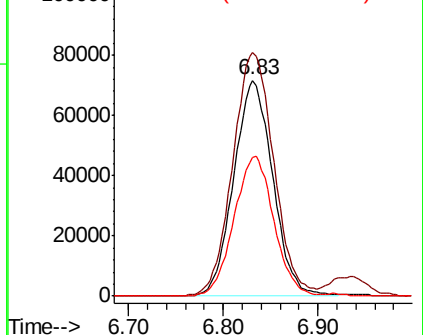


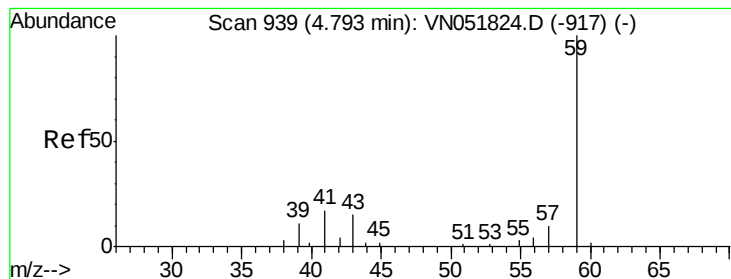
#22  
 cis-1,2-Dichloroethene  
 Concen: 20.341 ug/l  
 RT: 6.83 min Scan# 1573  
 Delta R.T. 0.00 min  
 Lab File: VN051980.D  
 Acq: 24 Oct 2018 11:47

| Tgt Ion   | 96    | Resp  | 205307 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 118.7 | 124.5 | 186.7# |
| 98        | 66.1  | 51.9  | 77.9   |



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





#23

tert-Butyl Alcohol

Concen: 78.306 ug/l

RT: 4.78 min Scan# 934

Delta R.T. -0.01 min

Lab File: VN051980.D

Acq: 24 Oct 2018 11:47

Instrument :

MSVOA\_N

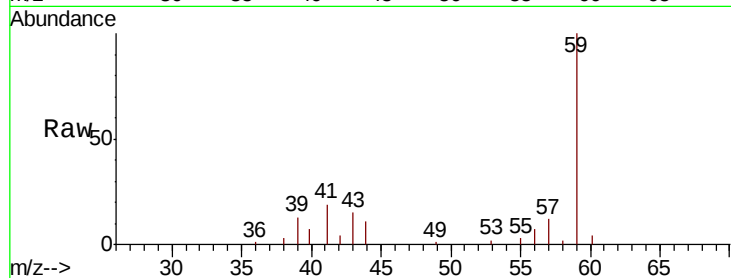
ClientSampled :

Tot Ion: 59 Resp: 43075

Ion Ratio Lower Upper

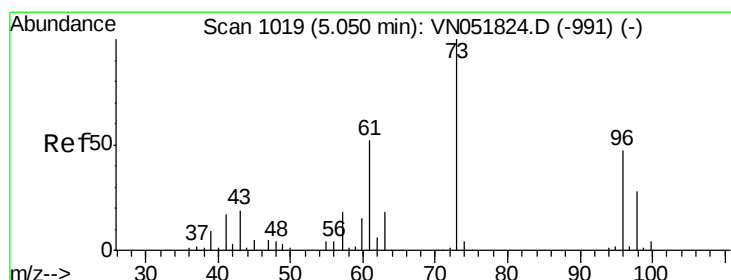
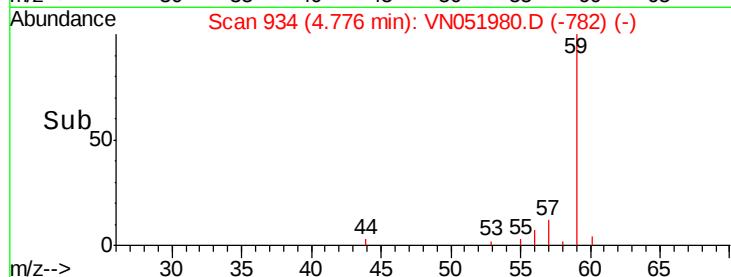
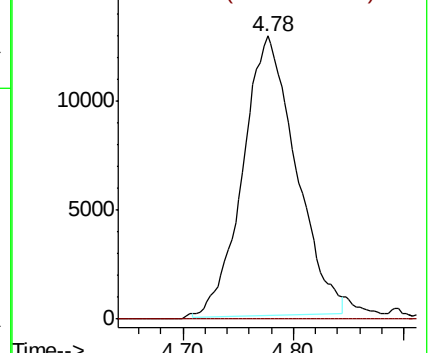
59 100

52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#24

Methyl tert-Butyl Ether

Concen: 19.218 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VN051980.D

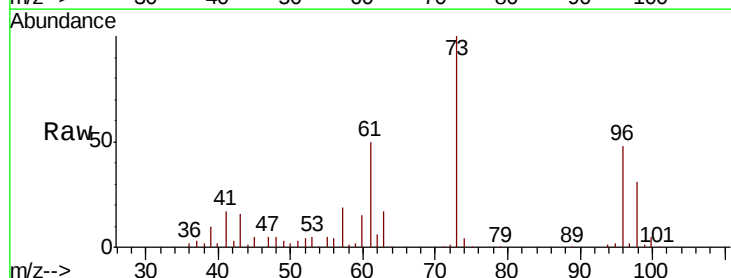
Acq: 24 Oct 2018 11:47

Tgt Ion: 73 Resp: 416701

Ion Ratio Lower Upper

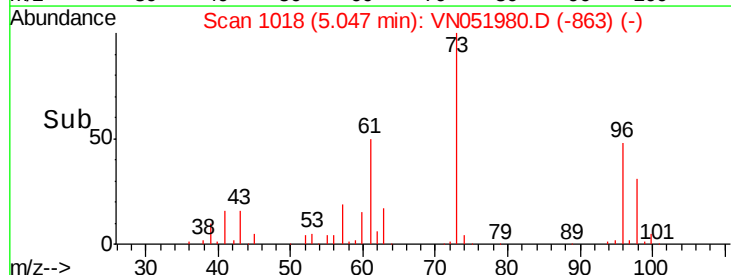
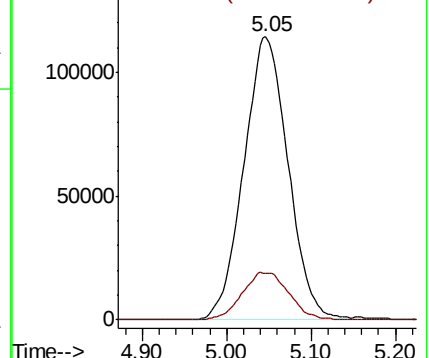
73 100

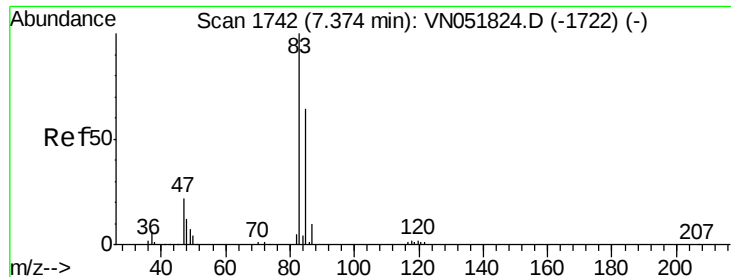
43 9.0 5.4 8.0#



Abundance Ion 73.00 (72.70 to 73.70): VN0

Ion 43.00 (42.70 to 43.70): VN0





#25

Chloroform

Concen: 20.399 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VN051980.D

Acq: 24 Oct 2018 11:47

Instrument :

MSVOA\_N

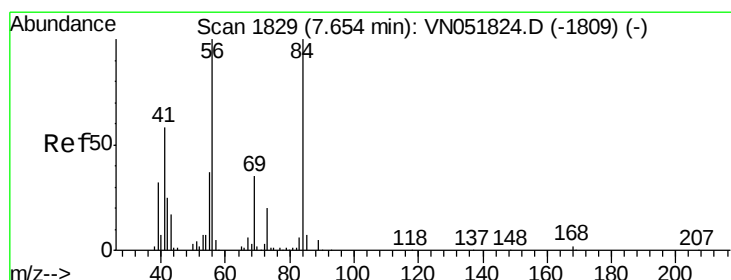
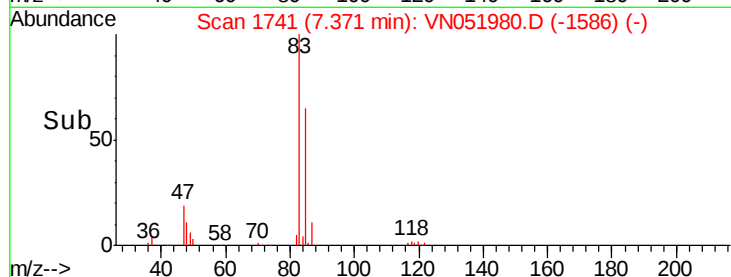
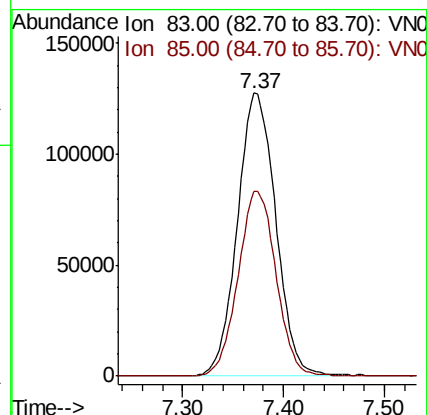
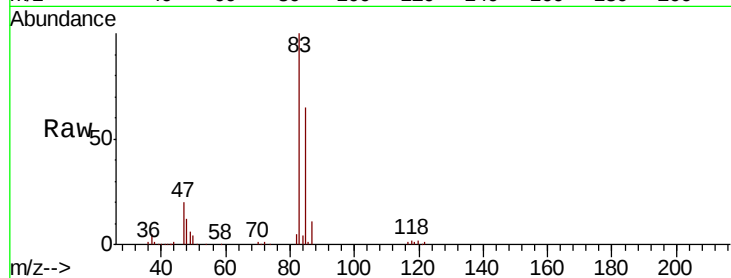
ClientSampled :

Tot Ion: 83 Resp: 336489

Ion Ratio Lower Upper

83 100

85 65.4 54.6 82.0



#26

Cyclohexane

Concen: 18.734 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN051980.D

Acq: 24 Oct 2018 11:47

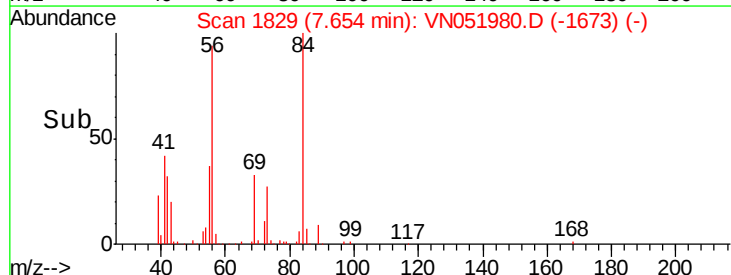
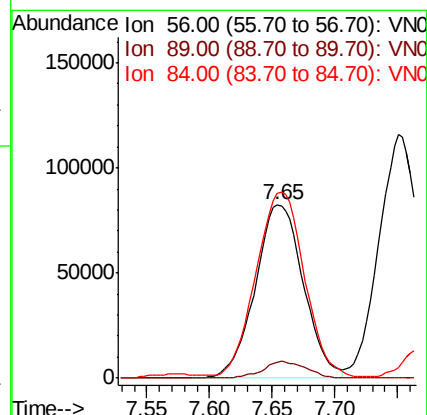
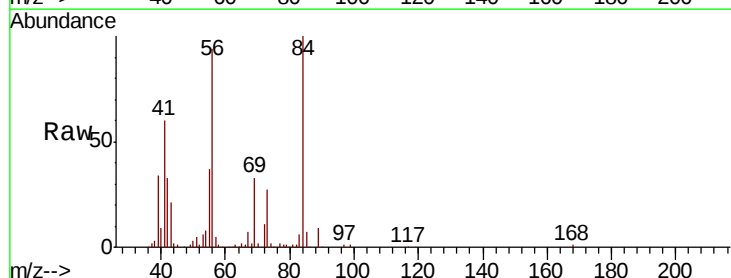
Tgt Ion: 56 Resp: 220832

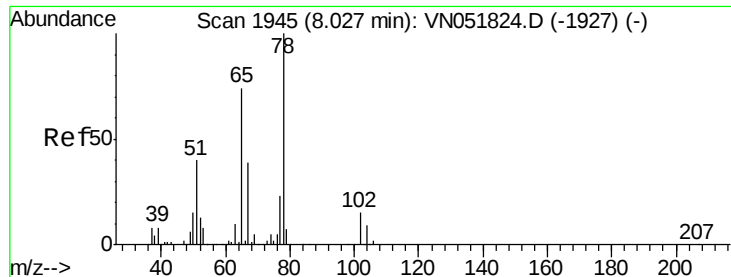
Ion Ratio Lower Upper

56 100

89 8.8 1.5 2.3#

84 108.8 64.2 96.4#





#27

1,2-Dichloroethane-d4

Concen: 18.734 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN051980.D

Acq: 24 Oct 2018 11:47

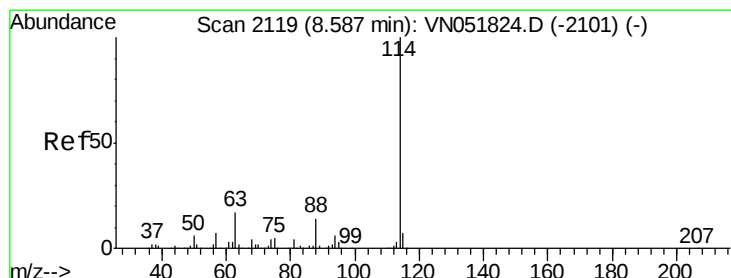
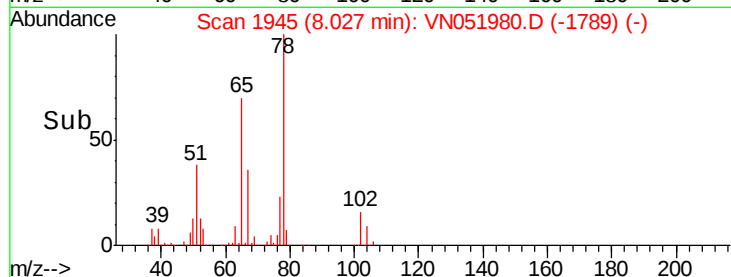
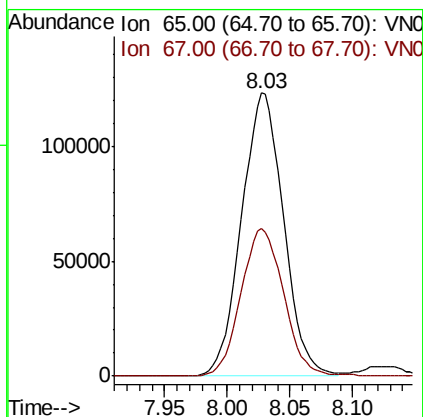
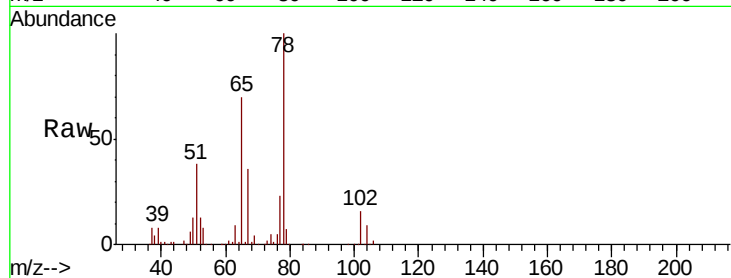
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 65 Resp: 286939

Ion Ratio Lower Upper

65 100

67 52.7 41.8 62.8



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.73 min Scan# 2164

Delta R.T. 0.14 min

Lab File: VN051980.D

Acq: 24 Oct 2018 11:47

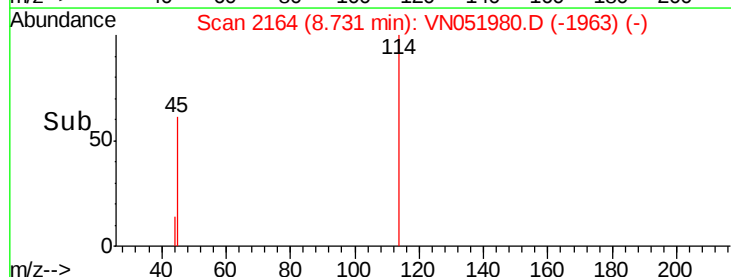
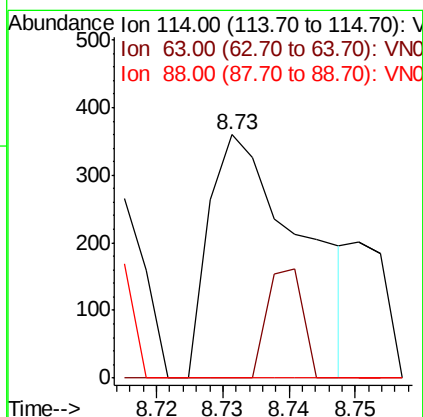
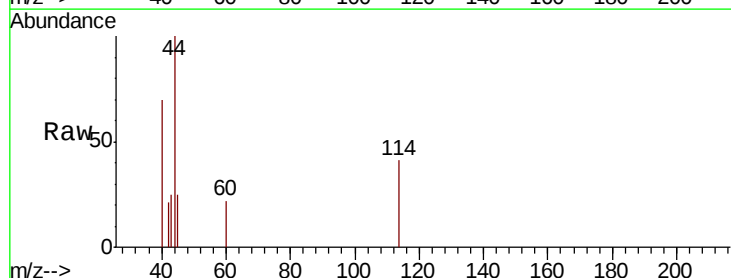
Tgt Ion: 114 Resp: 347

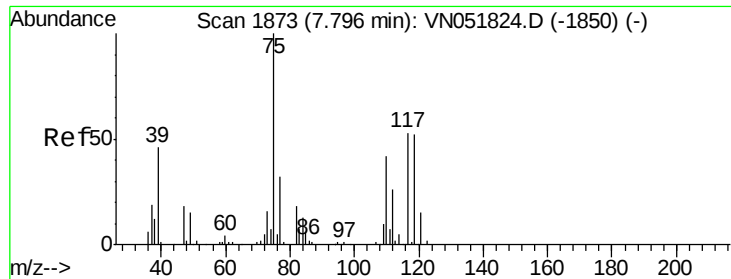
Ion Ratio Lower Upper

114 100

63 17.6 16.2 24.2

88 18.2 12.2 18.4

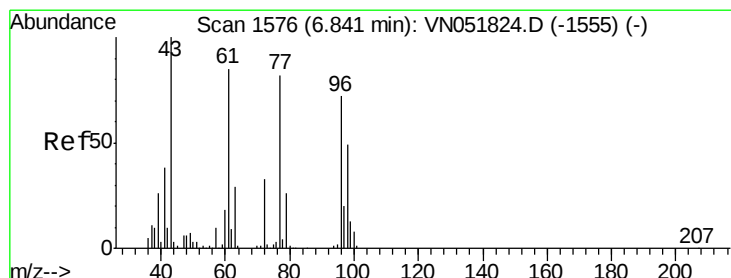
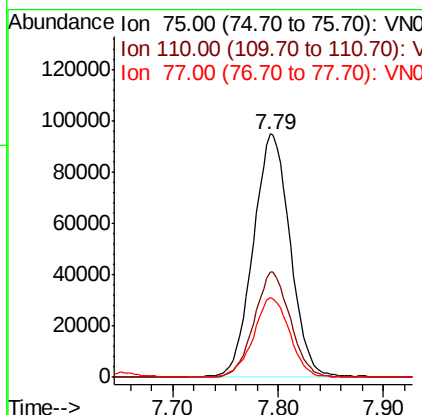
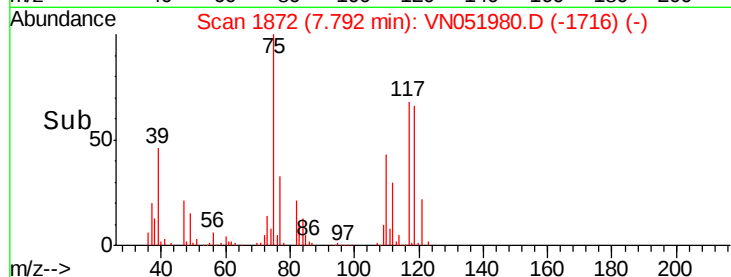
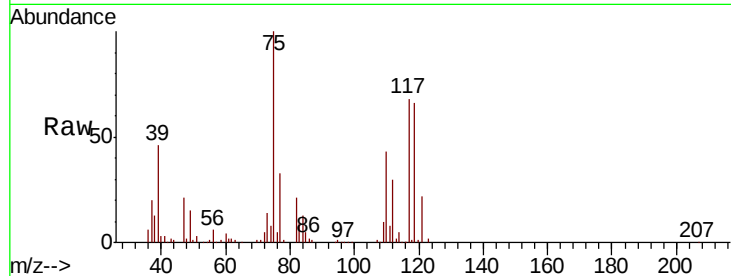




#29  
 1,1-Dichloropropene  
 Concen: 51752.472 ug/l  
 RT: 7.79 min Scan# 1872  
 Delta R.T. 0.00 min  
 Lab File: VN051980.D  
 Acq: 24 Oct 2018 11:47

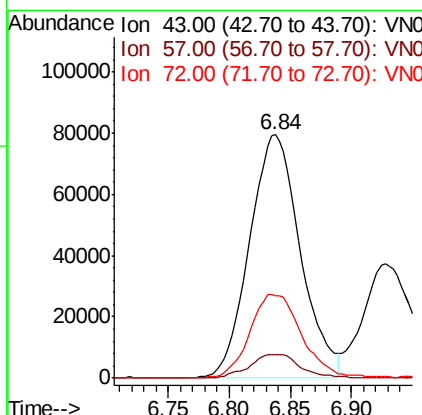
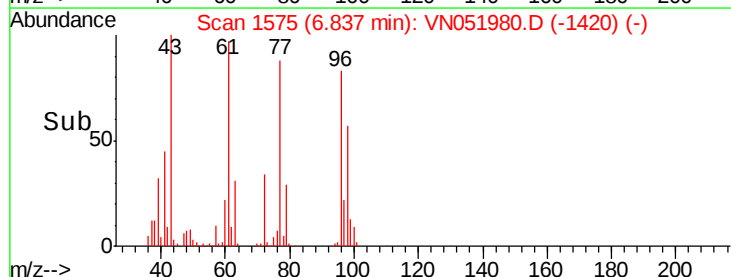
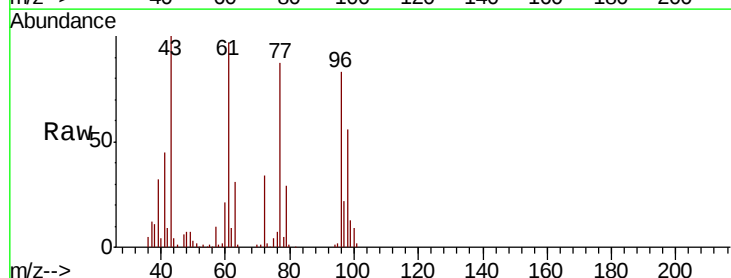
Instrument :  
 MSVOA\_N  
 ClientSampled :

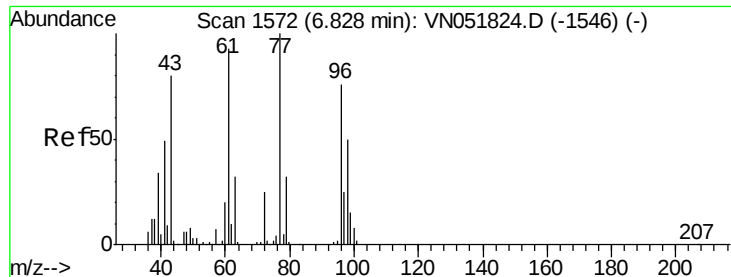
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 42.1  | 0.0   | 70.8  |
| 77      | 32.2  | 0.0   | 61.6  |



#30  
 2-Butanone  
 Concen: 244137.997 ug/l  
 RT: 6.84 min Scan# 1575  
 Delta R.T. -0.00 min  
 Lab File: VN051980.D  
 Acq: 24 Oct 2018 11:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 57      | 5.2   | 4.5   | 6.7   |
| 72      | 35.0  | 21.5  | 32.3  |





#31

2,2-Dichloropropane

Concen: 47315.404 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN051980.D

Acq: 24 Oct 2018 11:47

Instrument :

MSVOA\_N

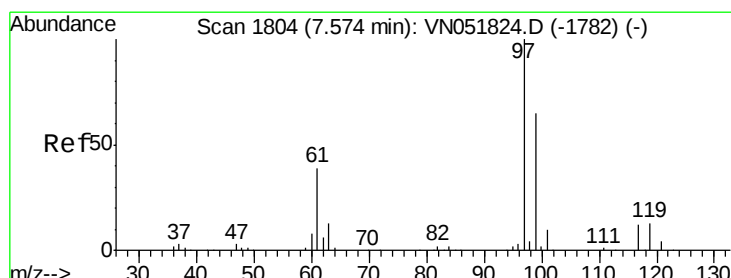
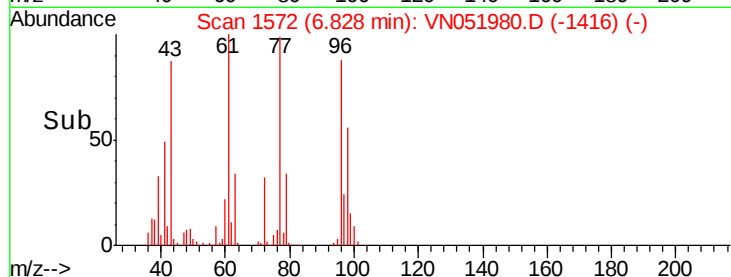
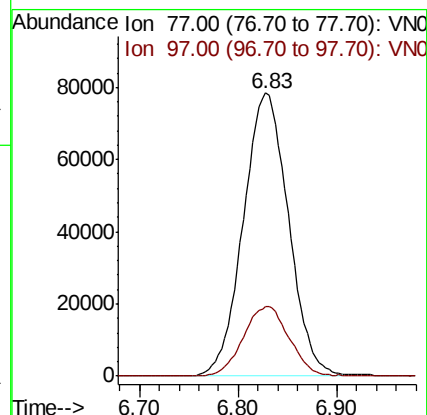
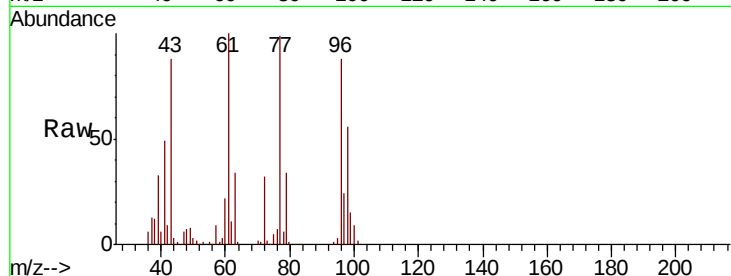
ClientSampleId :

Tot Ion: 77 Resp: 248965

Ion Ratio Lower Upper

77 100

97 24.9 12.0 18.0#



#32

1,1,1-Trichloroethane

Concen: 51397.022 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN051980.D

Acq: 24 Oct 2018 11:47

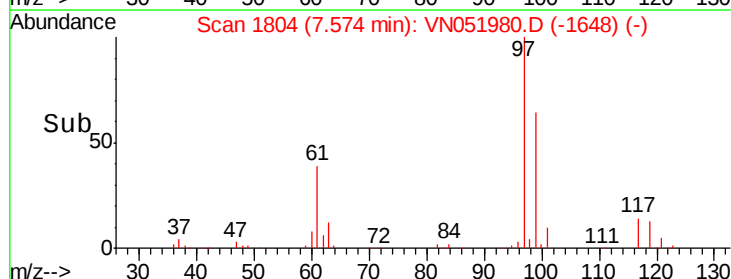
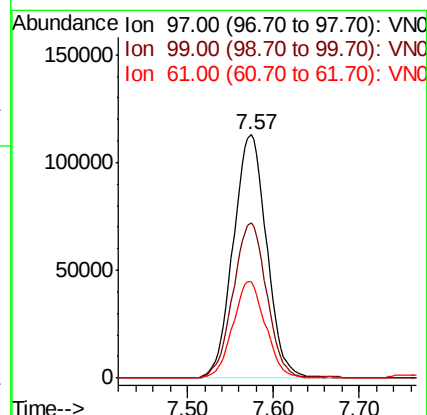
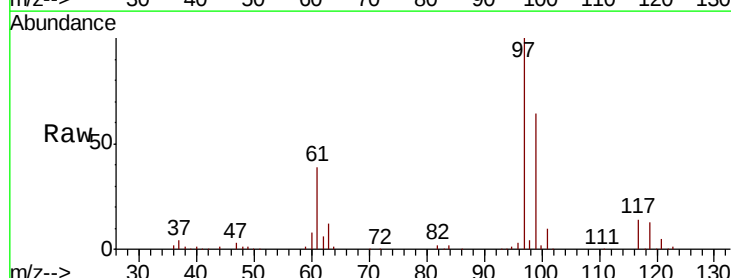
Tgt Ion: 97 Resp: 304787

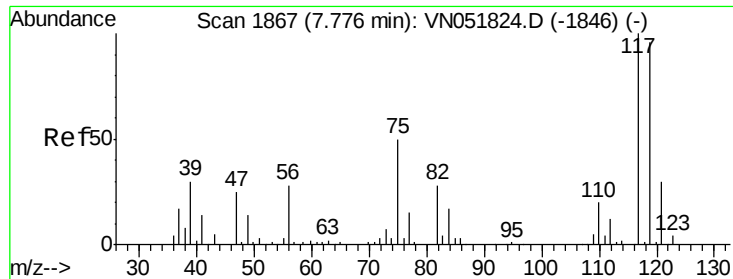
Ion Ratio Lower Upper

97 100

99 64.2 51.6 77.4

61 38.8 37.4 56.0





#33

Carbon Tetrachloride

Concen: 50077.909 ug/l

RT: 7.77 min Scan# 1866

Delta R.T. -0.00 min

Lab File: VN051980.D

Acq: 24 Oct 2018 11:47

Instrument :

MSVOA\_N

ClientSampled :

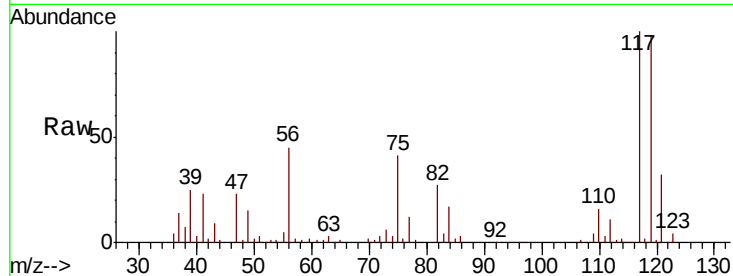
Tot Ion:117 Resp: 268675

Ion Ratio Lower Upper

117 100

119 98.2 85.1 127.7

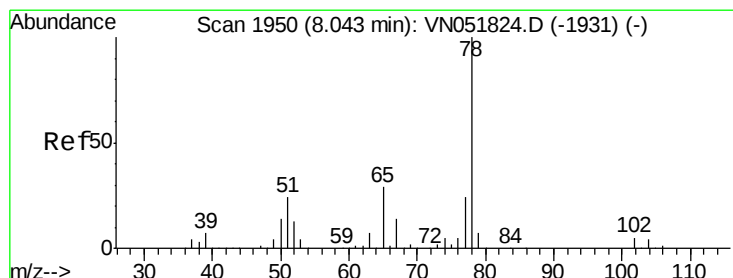
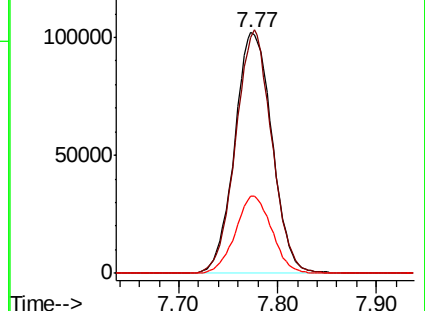
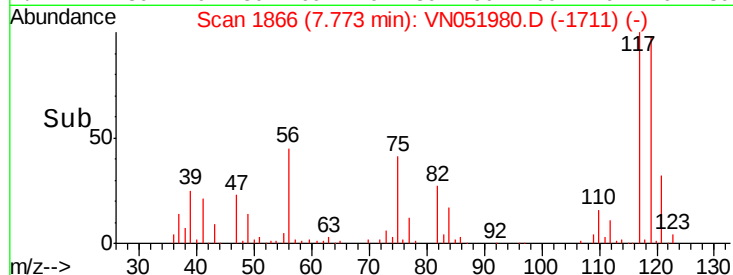
121 31.9 24.2 36.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#34

Benzene

Concen: 52740.021 ug/l

RT: 8.04 min Scan# 1950

Delta R.T. 0.00 min

Lab File: VN051980.D

Acq: 24 Oct 2018 11:47

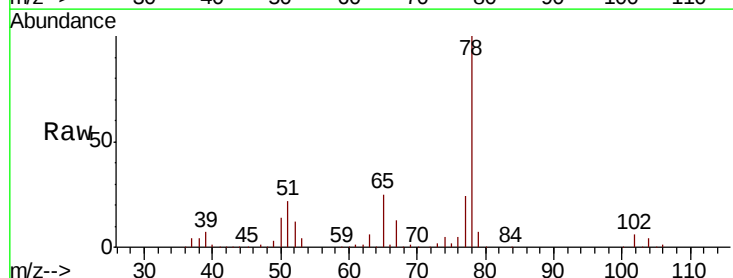
Tgt Ion: 78 Resp: 697787

Ion Ratio Lower Upper

78 100

77 24.2 18.8 28.2

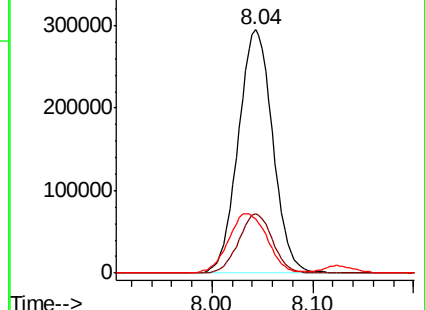
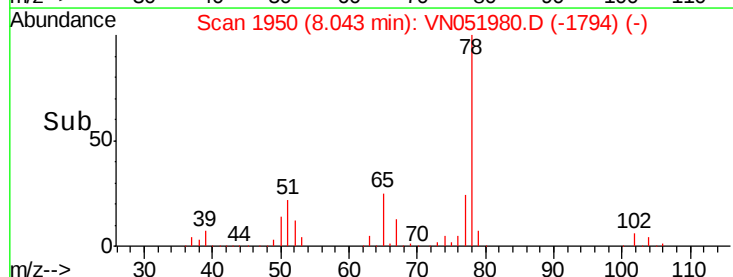
51 22.0 46.2 69.4#

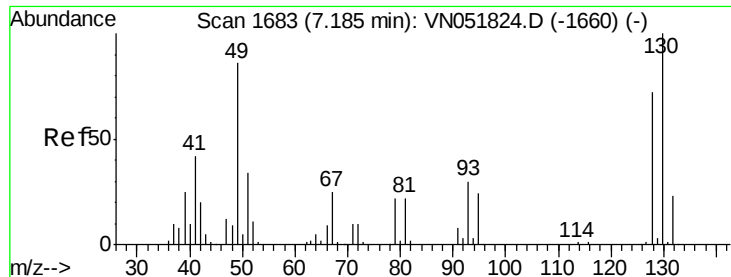


Abundance Ion 78.10 (77.80 to 78.80): V

Ion 77.00 (76.70 to 77.70): V

Ion 51.00 (50.70 to 51.70): V

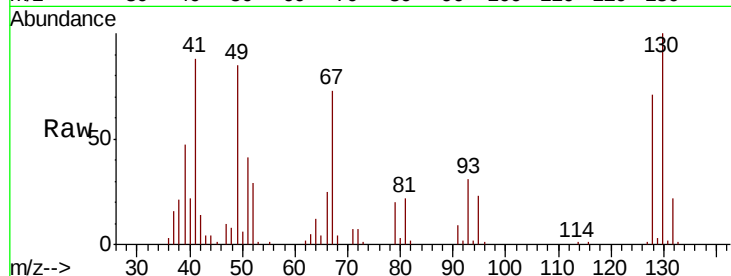




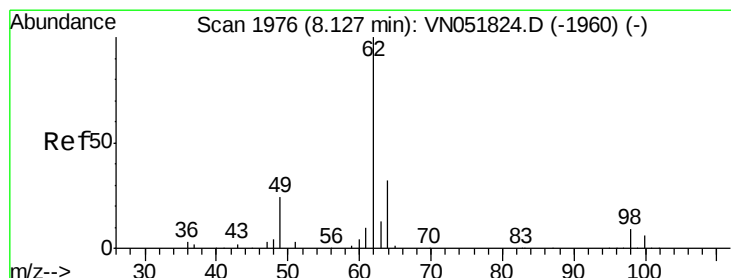
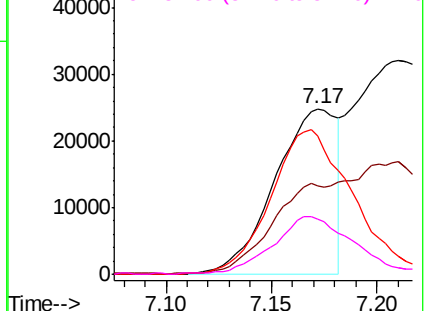
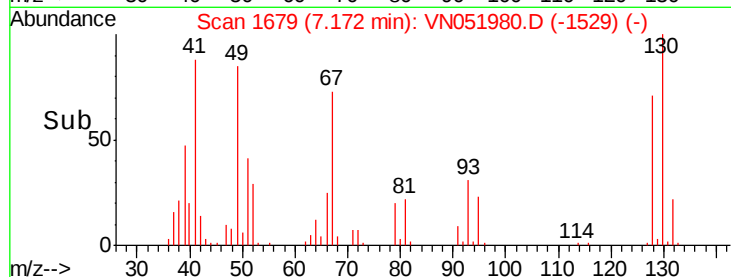
#35  
Methacrylonitrile  
Concen: 41490.820 ug/l  
RT: 7.17 min Scan# 1679  
Delta R.T. -0.02 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 41 Resp: 50962  
Ion Ratio Lower Upper  
41 100  
39 52.4 22.6 67.7  
67 82.7 28.9 86.8  
52 32.5 11.3 33.9

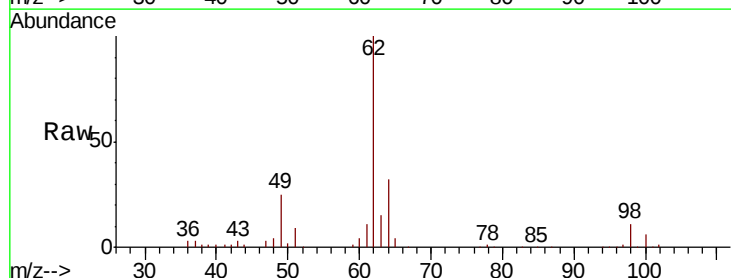


Abundance Ion 41.00 (40.70 to 41.70): VNO  
Ion 39.00 (38.70 to 39.70): VNO  
Ion 67.00 (66.70 to 67.70): VNO  
Ion 52.00 (51.70 to 52.70): VNO

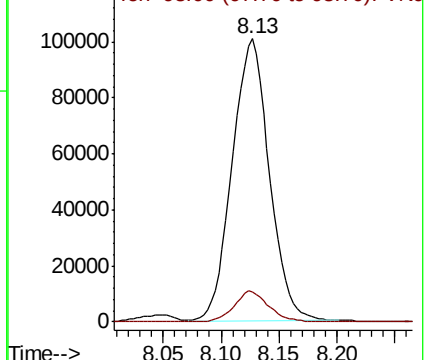
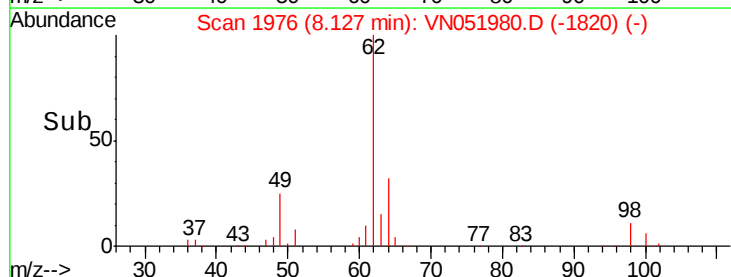


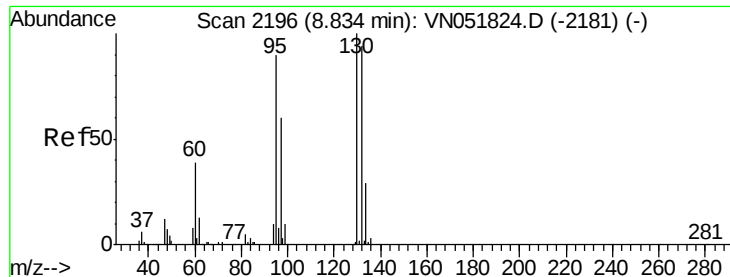
#36  
1,2-Dichloroethane  
Concen: 52720.553 ug/l  
RT: 8.13 min Scan# 1976  
Delta R.T. 0.00 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

Tgt Ion: 62 Resp: 223502  
Ion Ratio Lower Upper  
62 100  
98 10.3 6.9 10.3



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

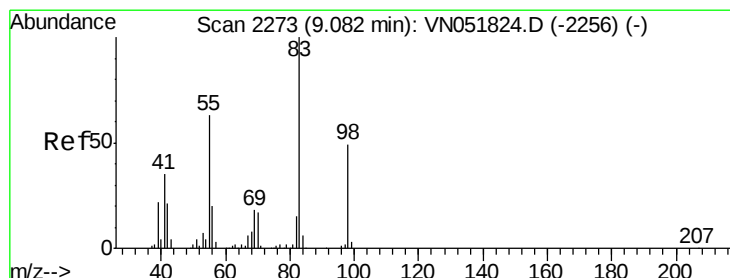
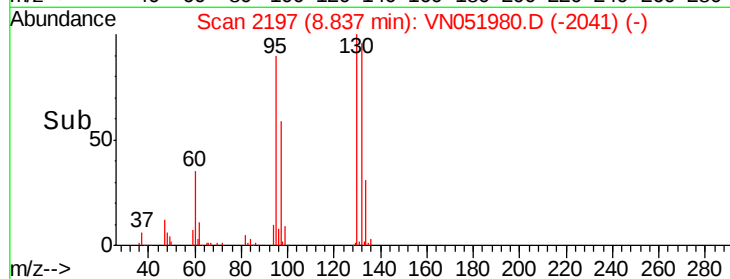
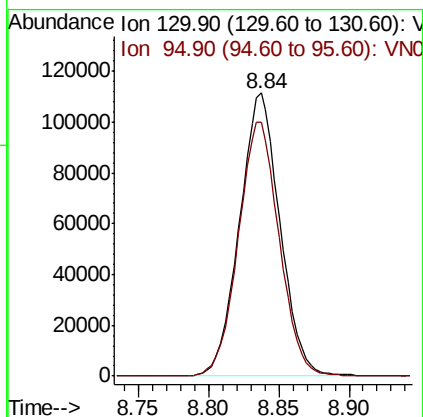
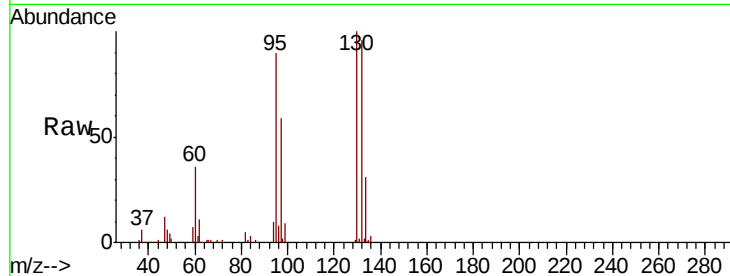




#37  
 Trichloroethene  
 Concen: 54408.187 ug/l  
 RT: 8.84 min Scan# 2197  
 Delta R.T. 0.00 min  
 Lab File: VN051980.D  
 Acq: 24 Oct 2018 11:47

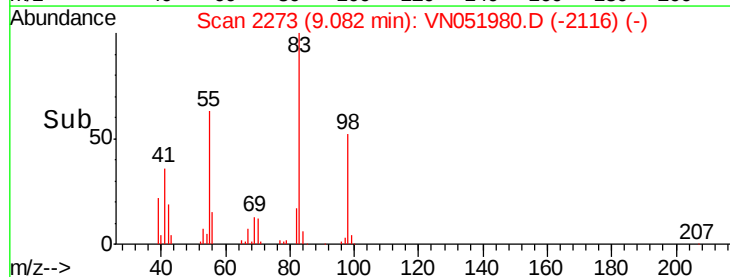
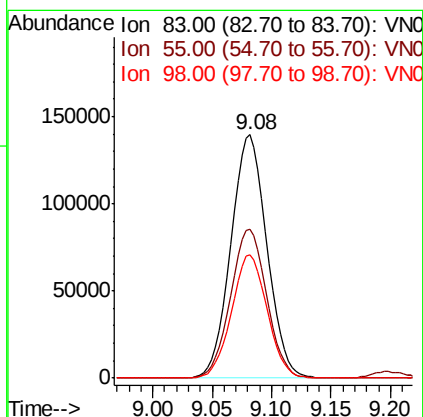
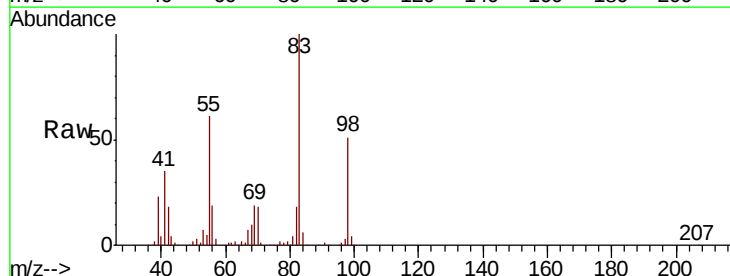
Instrument :  
 MSVOA\_N  
 ClientSampled :

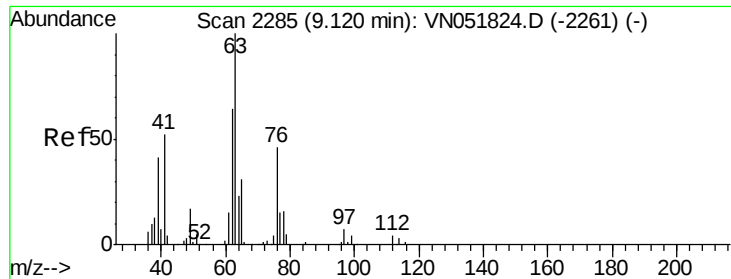
Tot Ion:130 Resp: 223461  
 Ion Ratio Lower Upper  
 130 100  
 95 89.6 76.4 114.6



#38  
 Methylcyclohexane  
 Concen: 51066.364 ug/l  
 RT: 9.08 min Scan# 2273  
 Delta R.T. 0.00 min  
 Lab File: VN051980.D  
 Acq: 24 Oct 2018 11:47

Tgt Ion: 83 Resp: 292963  
 Ion Ratio Lower Upper  
 83 100  
 55 61.4 43.0 129.2  
 98 50.1 21.3 63.7

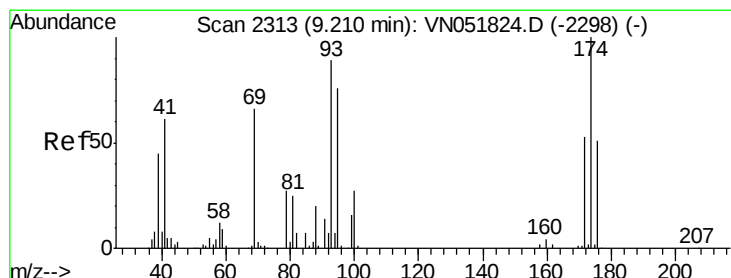
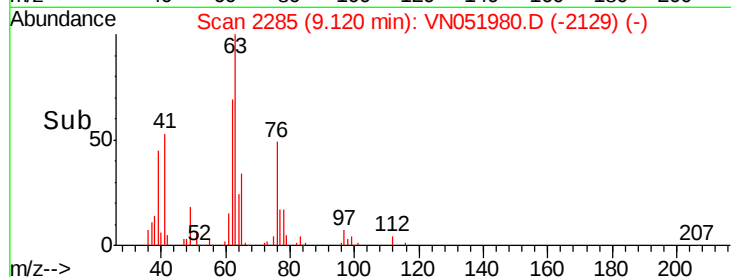
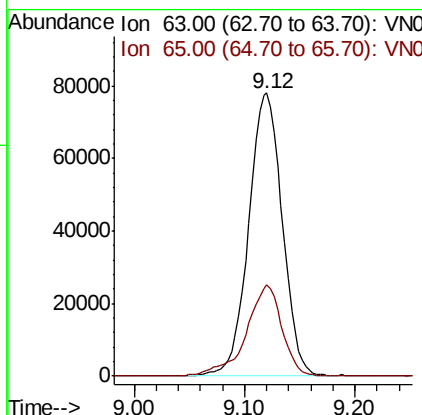
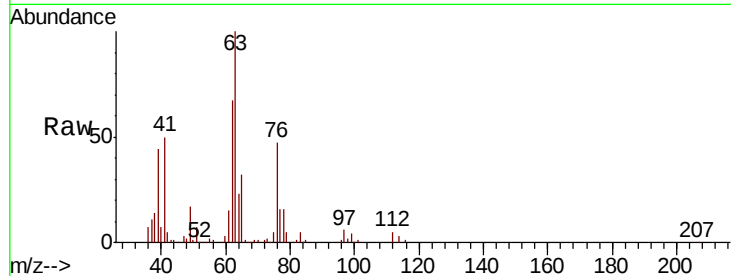




#39  
 1,2-Dichloropropane  
 Concen: 52799.259 ug/l  
 RT: 9.12 min Scan# 2285  
 Delta R.T. 0.00 min  
 Lab File: VN051980.D  
 Acq: 24 Oct 2018 11:47

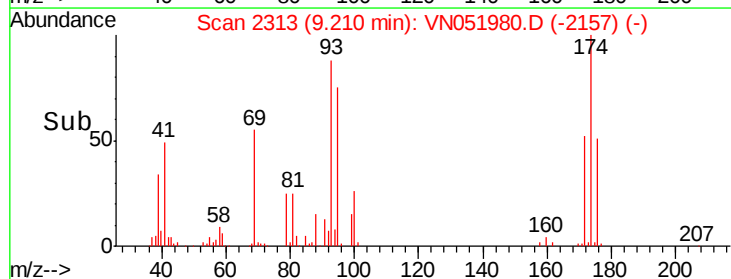
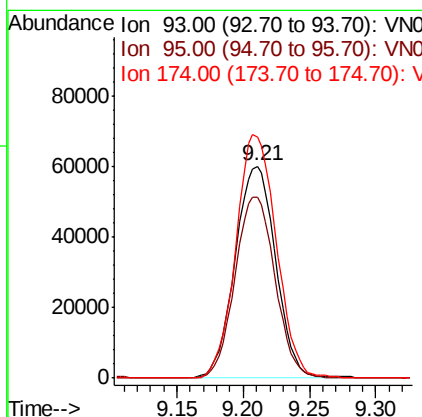
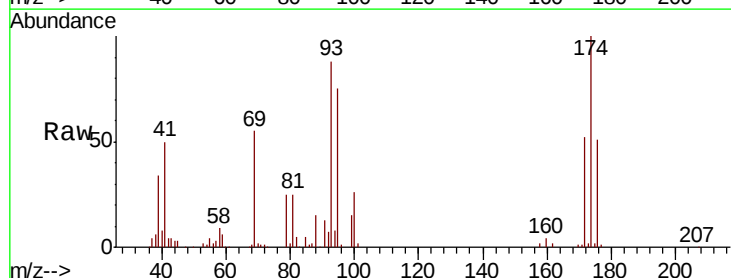
Instrument :  
 MSVOA\_N  
 ClientSampled :

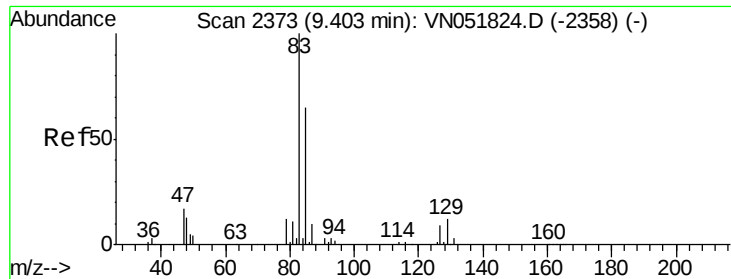
Tot Ion: 63 Resp: 164514  
 Ion Ratio Lower Upper  
 63 100  
 65 32.1 23.2 34.8



#40  
 Dibromomethane  
 Concen: 55099.812 ug/l  
 RT: 9.21 min Scan# 2313  
 Delta R.T. 0.00 min  
 Lab File: VN051980.D  
 Acq: 24 Oct 2018 11:47

Tgt Ion: 93 Resp: 127420  
 Ion Ratio Lower Upper  
 93 100  
 95 84.6 0.0 162.0  
 174 114.7 0.0 214.0

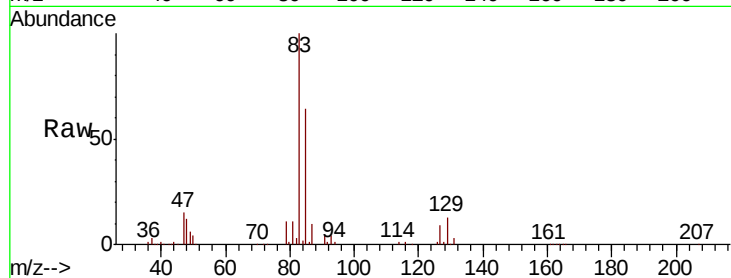




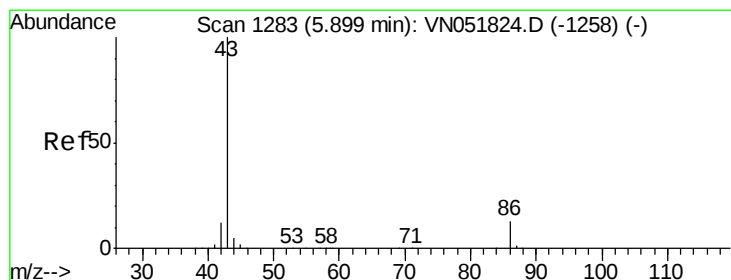
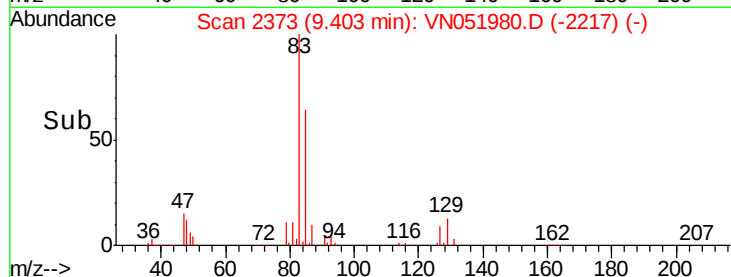
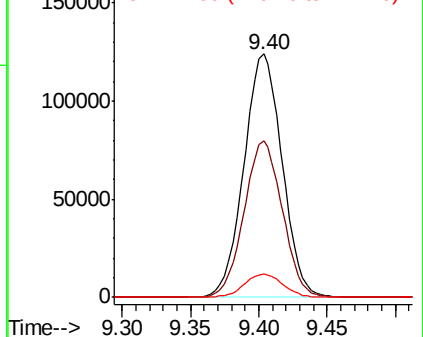
#41  
 Bromodichloromethane  
 Concen: 50562.838 ug/l  
 RT: 9.40 min Scan# 2373  
 Delta R.T. 0.00 min  
 Lab File: VN051980.D  
 Acq: 24 Oct 2018 11:47

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Tot Ion: 83 Resp: 241518  
 Ion Ratio Lower Upper  
 83 100  
 85 64.3 55.7 83.5  
 127 9.4 8.2 12.4

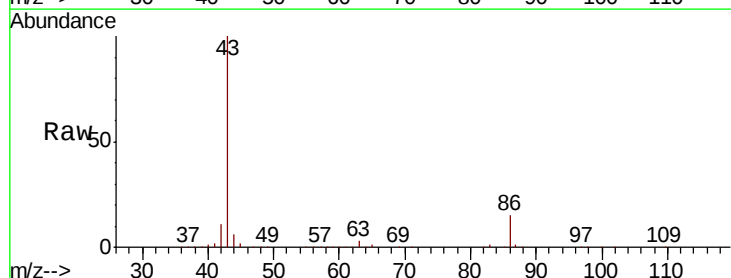


Abundance Ion 83.00 (82.70 to 83.70): VN0  
 Ion 85.00 (84.70 to 85.70): VN0  
 Ion 127.00 (126.70 to 127.70): V

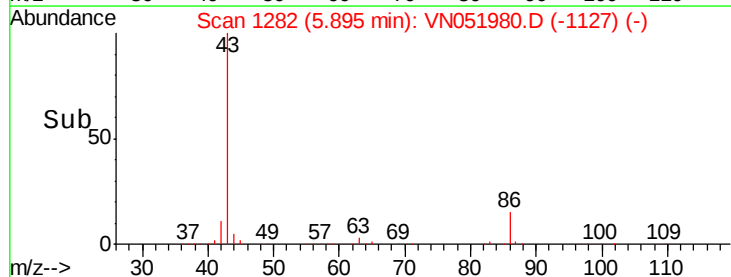
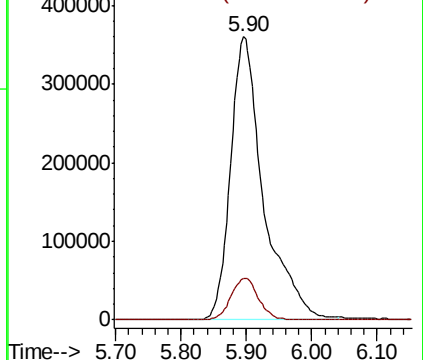


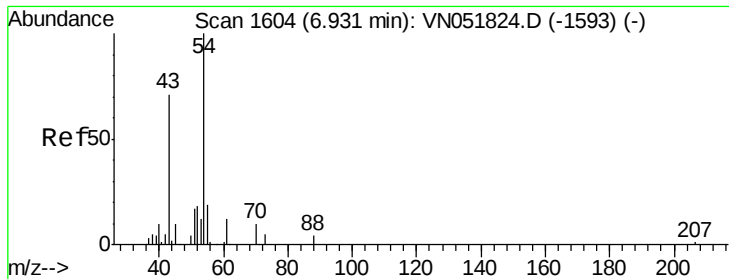
#42  
 Vinyl Acetate  
 Concen: 240476.272 ug/l  
 RT: 5.90 min Scan# 1282  
 Delta R.T. -0.00 min  
 Lab File: VN051980.D  
 Acq: 24 Oct 2018 11:47

Tgt Ion: 43 Resp: 1265567  
 Ion Ratio Lower Upper  
 43 100  
 86 12.3 6.5 9.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0  
 Ion 86.00 (85.70 to 86.70): VN0





#43

Ethyl Acetate

Concen: 231.530 ug/l

RT: 6.61 min Scan# 1504

Delta R.T. -0.32 min

Lab File: VN051980.D

Acq: 24 Oct 2018 11:47

Instrument :

MSVOA\_N

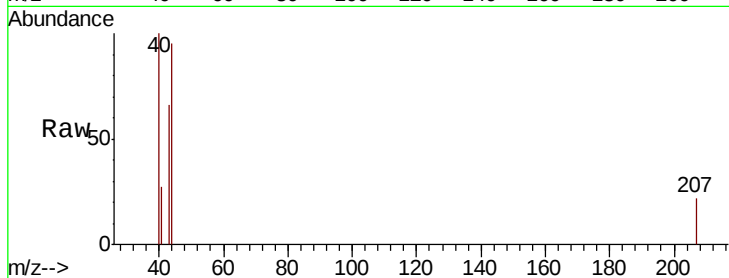
ClientSampleId :

Tot Ion: 43 Resp: 470

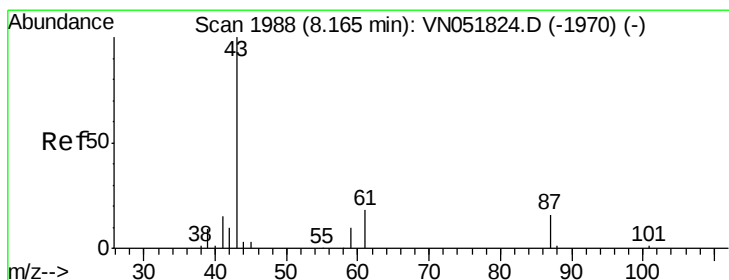
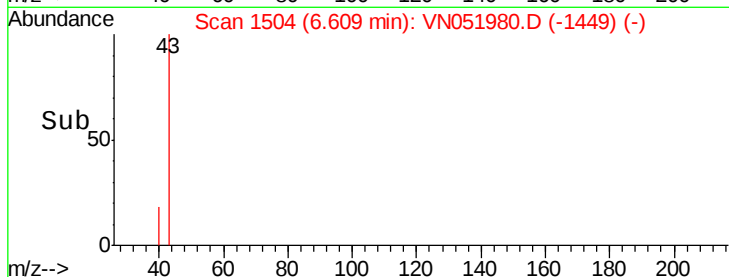
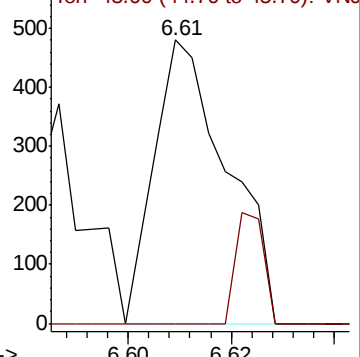
Ion Ratio Lower Upper

43 100

45 15.1 11.0 16.6



Abundance Ion 43.00 (42.70 to 43.70): VN051824.D (-1593) (-)



#44

Isopropyl Acetate

Concen: 48455.237 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VN051980.D

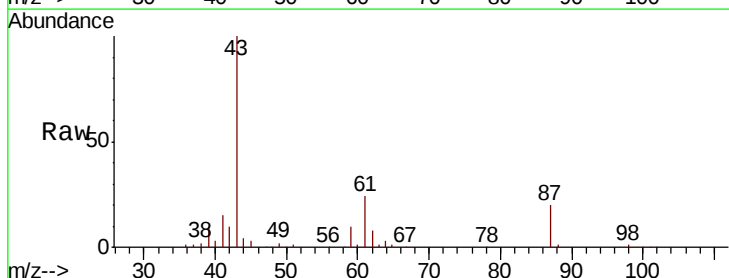
Acq: 24 Oct 2018 11:47

Tgt Ion: 43 Resp: 196469

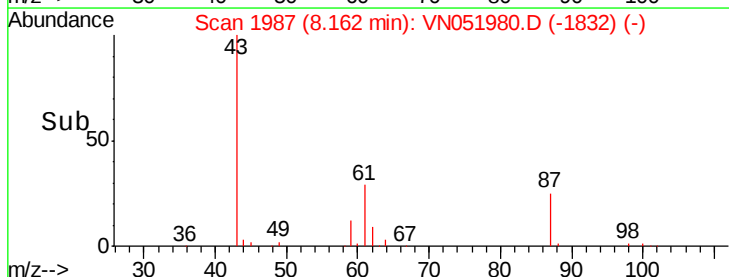
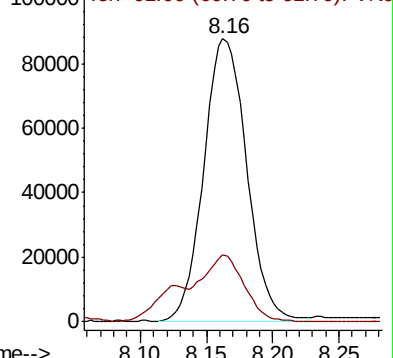
Ion Ratio Lower Upper

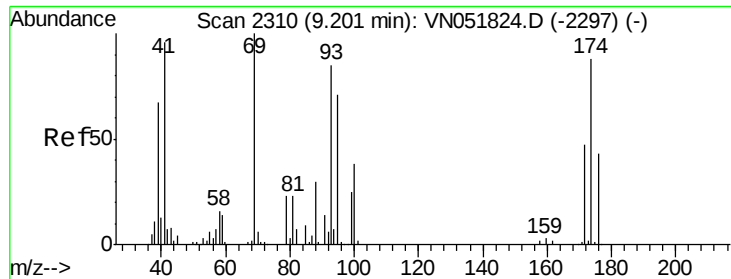
43 100

61 23.4 15.9 23.9



Abundance Ion 43.00 (42.70 to 43.70): VN051824.D (-1970) (-)





#45

1,4-Dioxane

Concen: 949843.745 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN051980.D

Acq: 24 Oct 2018 11:47

Instrument :  
MSVOA\_N  
ClientSampleId :

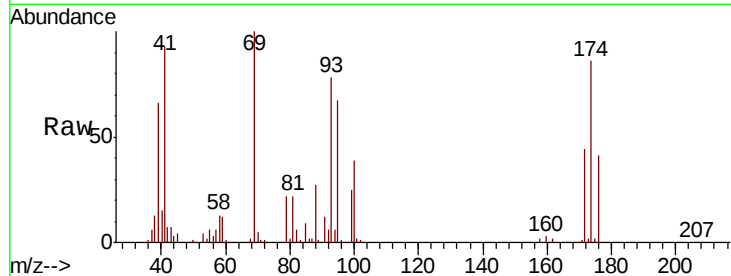
Tot Ion: 88 Resp: 30924

Ion Ratio Lower Upper

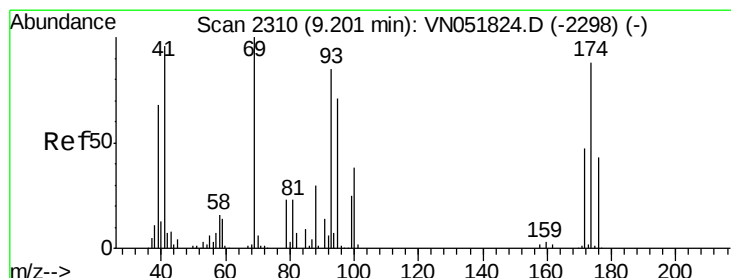
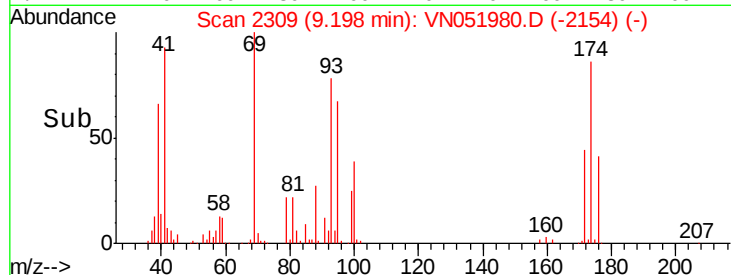
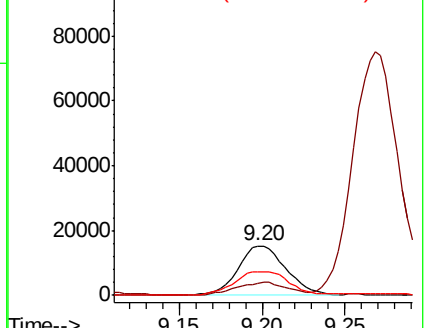
88 100

43 26.1 26.2 39.2#

58 55.0 65.6 98.4#



Abundance Ion 88.00 (87.70 to 88.70): VN0  
Ion 43.00 (42.70 to 43.70): VN0  
Ion 58.00 (57.70 to 58.70): VN0



#46

Methyl methacrylate

Concen: 50328.353 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN051980.D

Acq: 24 Oct 2018 11:47

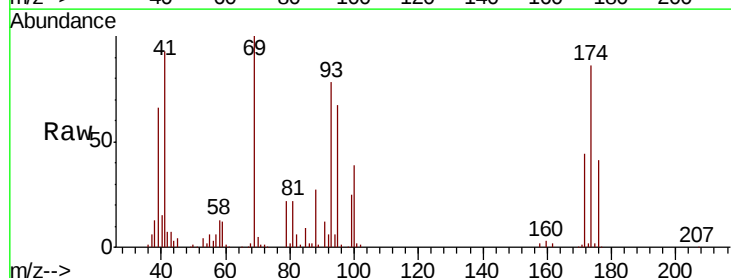
Tgt Ion: 41 Resp: 94125

Ion Ratio Lower Upper

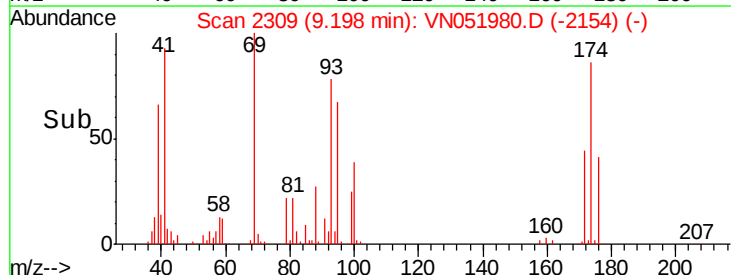
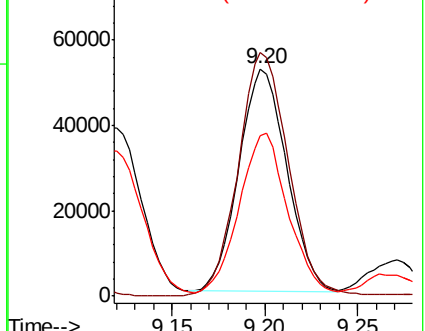
41 100

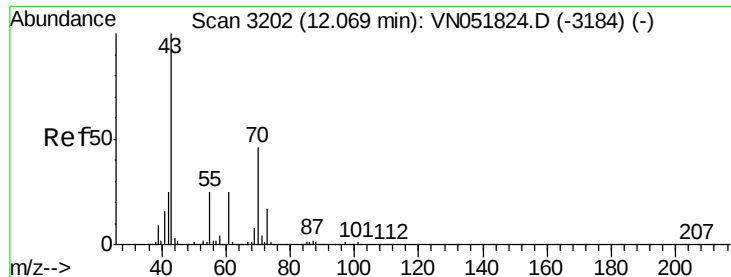
69 109.0 40.7 122.1

39 70.7 27.3 81.9



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

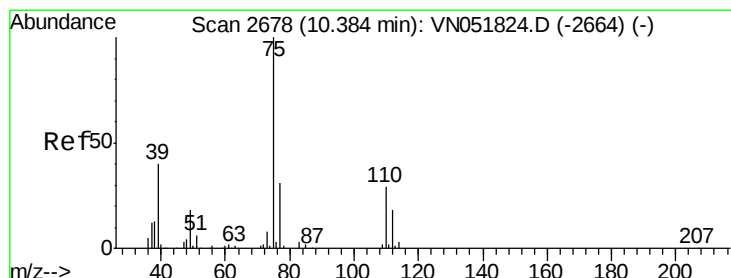
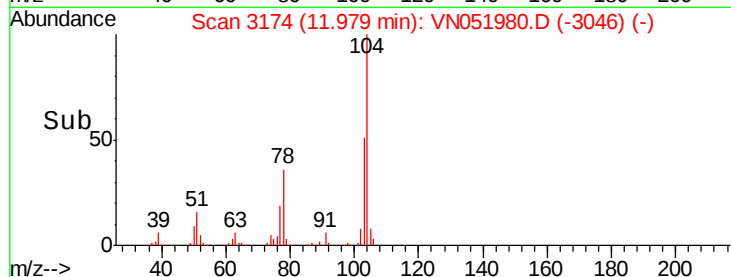
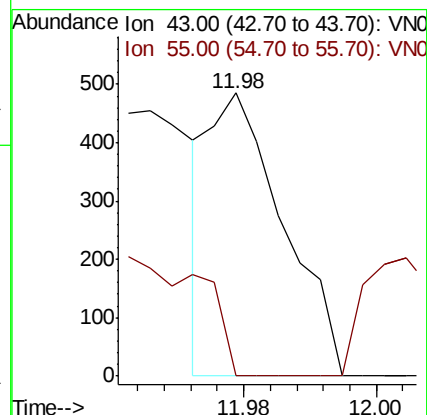
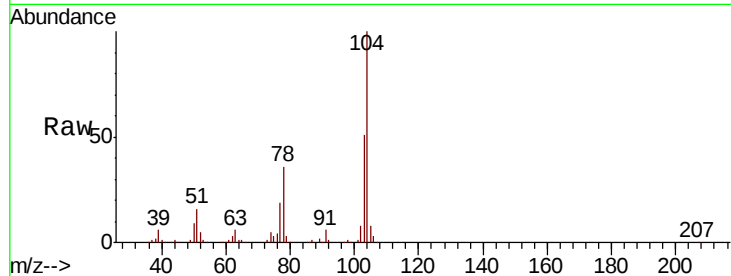




#47  
 n-amvl Acetate  
 Concen: 110.775 ug/l  
 RT: 11.98 min Scan# 3174  
 Delta R.T. -0.09 min  
 Lab File: VN051980.D  
 Acq: 24 Oct 2018 11:47

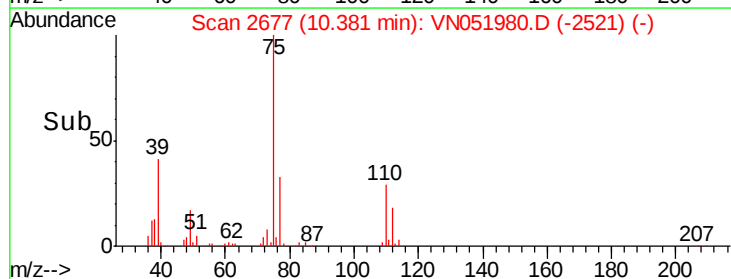
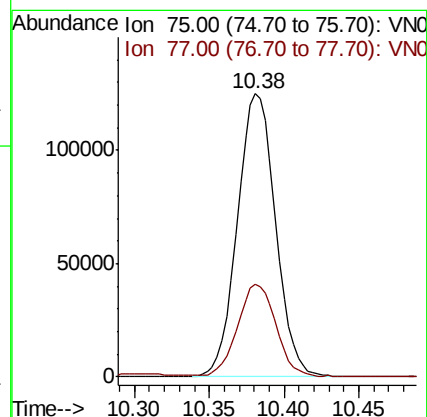
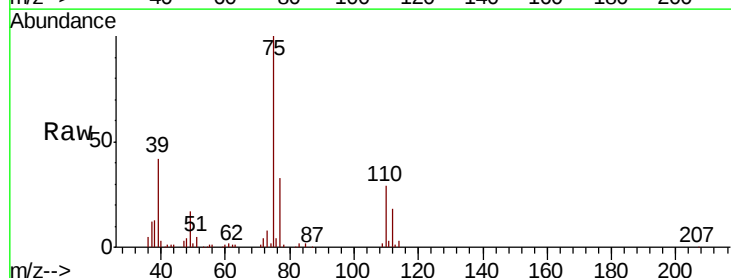
Instrument :  
 MSVOA\_N  
 ClientSampled :

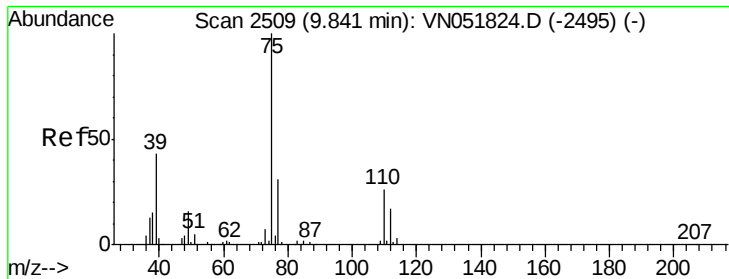
Tot Ion: 43 Resp: 376  
 Ion Ratio Lower Upper  
 43 100  
 55 17.0 12.2 18.4



#48  
 t-1,3-Dichloropropene  
 Concen: 47692.915 ug/l  
 RT: 10.38 min Scan# 2677  
 Delta R.T. 0.00 min  
 Lab File: VN051980.D  
 Acq: 24 Oct 2018 11:47

Tgt Ion: 75 Resp: 222152  
 Ion Ratio Lower Upper  
 75 100  
 77 32.6 24.6 37.0



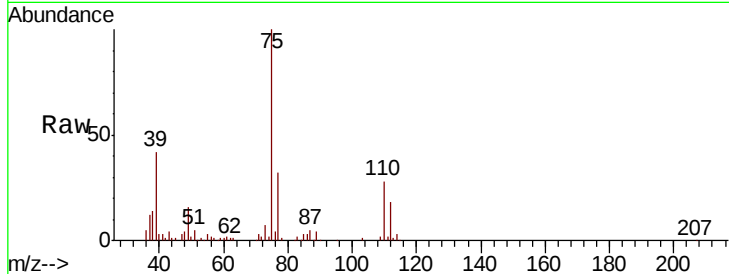


#49

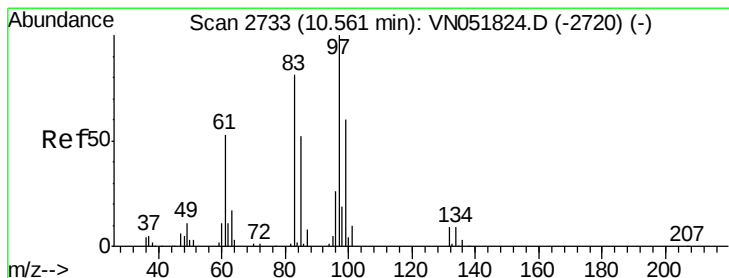
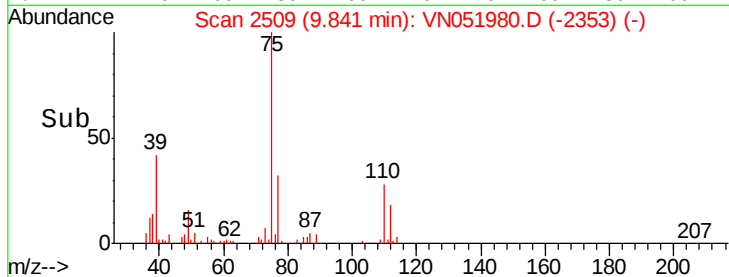
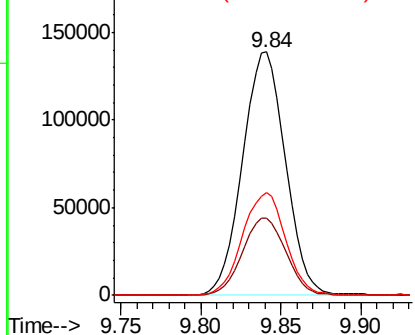
cis-1,3-Dichloropropene  
Concen: 49490.848 ug/l  
RT: 9.84 min Scan# 2509  
Delta R.T. 0.00 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

Instrument :  
MSVOA\_N  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.8  | 23.2  | 34.8  |
| 39      | 41.9  | 34.6  | 52.0  |



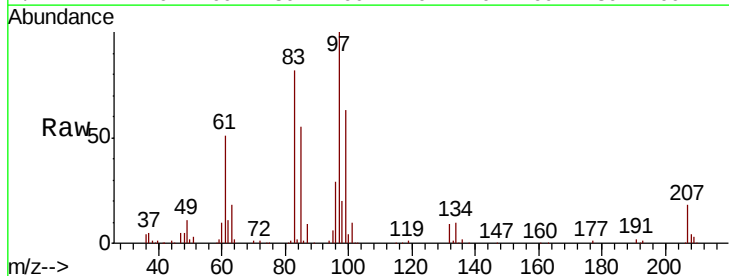
Abundance Ion 75.00 (74.70 to 75.70): VNO  
Ion 77.00 (76.70 to 77.70): VNO  
Ion 39.00 (38.70 to 39.70): VNO



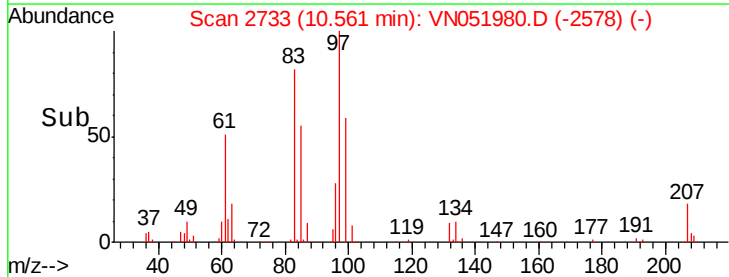
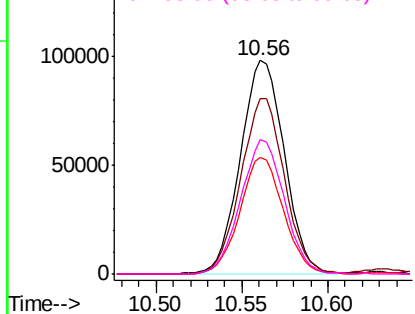
#50

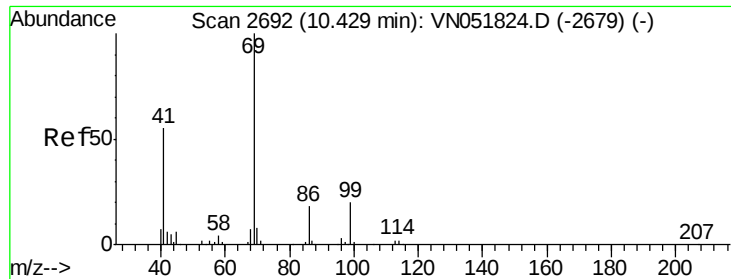
1,1,2-Trichloroethane  
Concen: 54625.871 ug/l  
RT: 10.56 min Scan# 2733  
Delta R.T. -0.00 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 82.2  | 68.2  | 102.4 |
| 85      | 55.1  | 42.5  | 63.7  |
| 99      | 63.1  | 44.3  | 66.5  |



Abundance Ion 97.00 (96.70 to 97.70): VNO  
Ion 82.95 (82.65 to 83.65): VNO  
Ion 84.95 (84.65 to 85.65): VNO  
Ion 98.95 (98.65 to 99.65): VNO





#51

Ethyl methacrylate

Concen: 50900.708 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN051980.D

Acq: 24 Oct 2018 11:47

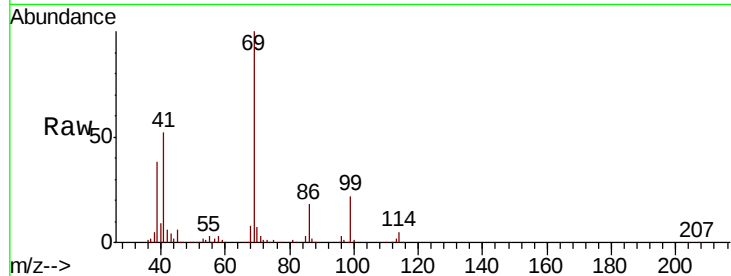
Instrument :

MSVOA\_N

ClientSampled :

Tot Ion: 69 Resp: 186196

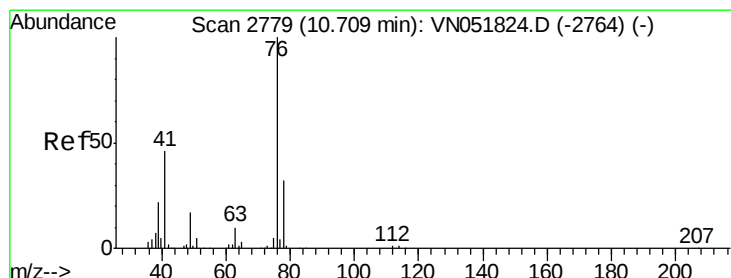
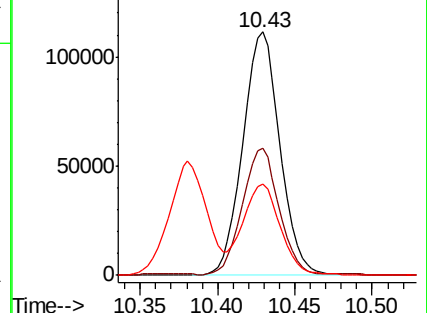
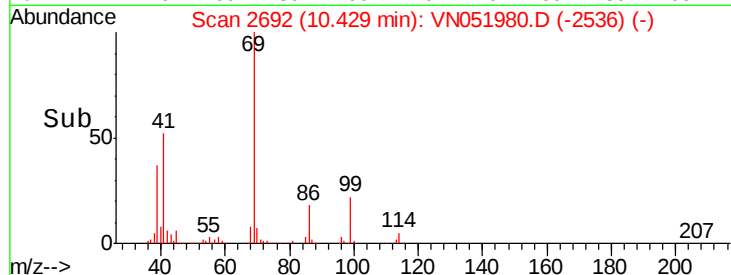
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 51.9  | 34.4  | 103.1 |
| 39  | 37.2  | 16.3  | 48.8  |



Abundance Ion 69.00 (68.70 to 69.70): VN051980.D (-2536) (-)

Ion 41.00 (40.70 to 41.70): VN051980.D (-2536) (-)

Ion 39.00 (38.70 to 39.70): VN051980.D (-2536) (-)



#52

1,3-Dichloropropane

Concen: 53286.571 ug/l

RT: 10.71 min Scan# 2779

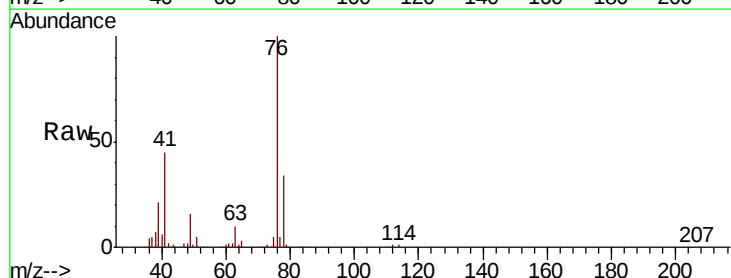
Delta R.T. 0.00 min

Lab File: VN051980.D

Acq: 24 Oct 2018 11:47

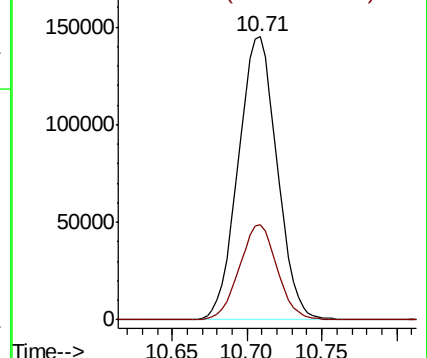
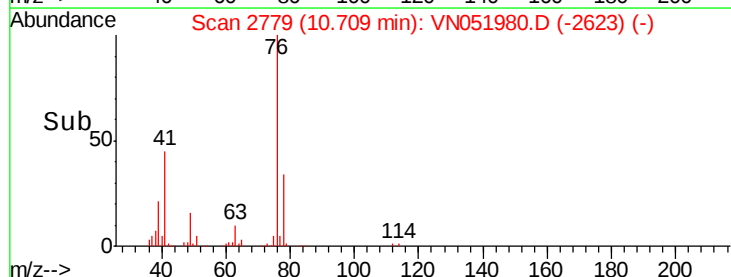
Tgt Ion: 76 Resp: 262773

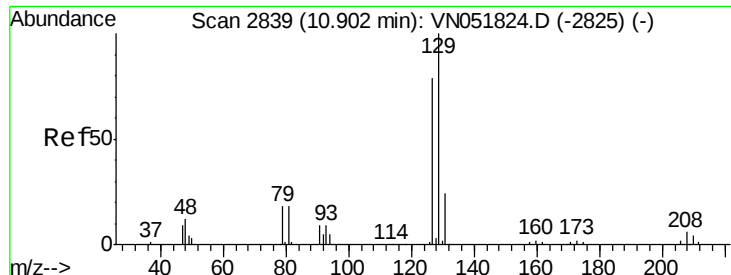
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 78  | 32.6  | 0.0   | 67.6  |



Abundance Ion 76.00 (75.70 to 76.70): VN051980.D (-2623) (-)

Ion 78.00 (77.70 to 78.70): VN051980.D (-2623) (-)





#53

Dibromochloromethane

Concen: 49508.791 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN051980.D

Acq: 24 Oct 2018 11:47

Instrument :

MSVOA\_N

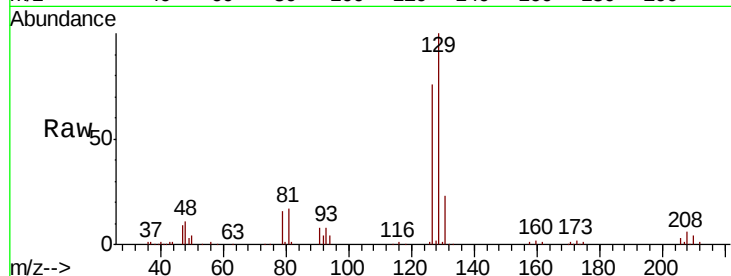
ClientSampleId :

Tot Ion:129 Resp: 195693

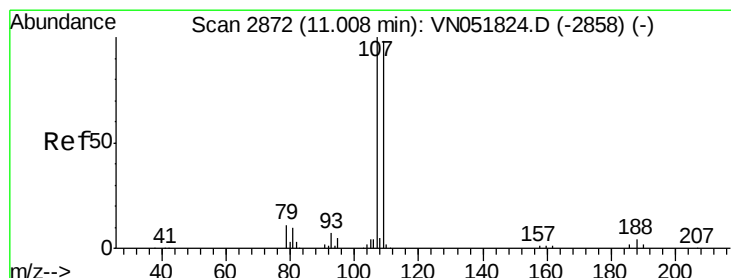
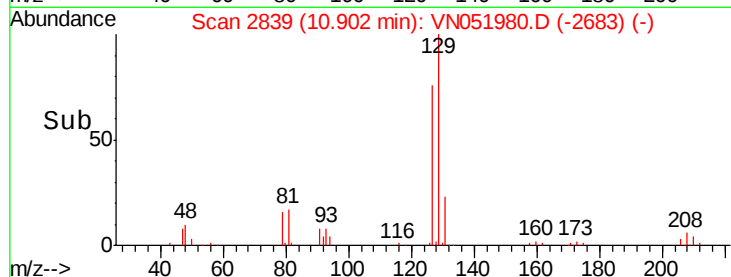
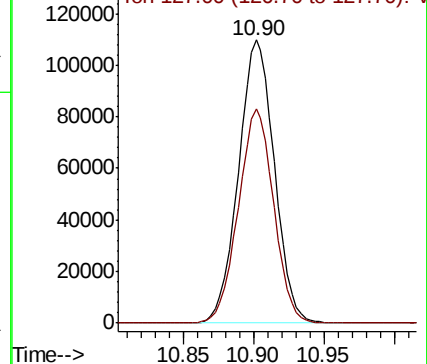
Ion Ratio Lower Upper

129 100

127 74.6 40.2 120.5



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



#54

1,2-Dibromoethane

Concen: 54040.780 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VN051980.D

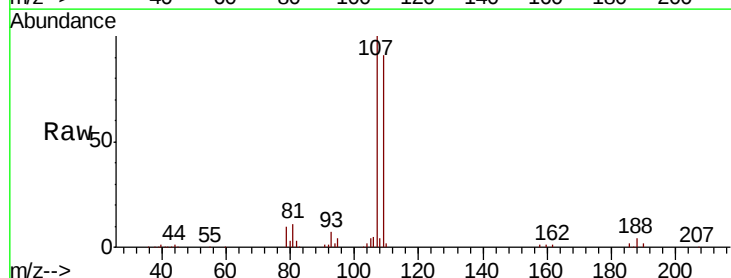
Acq: 24 Oct 2018 11:47

Tgt Ion:107 Resp: 181240

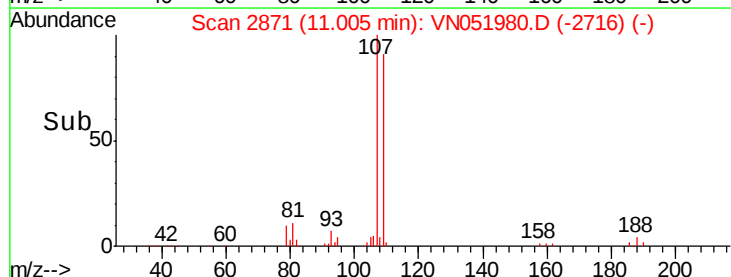
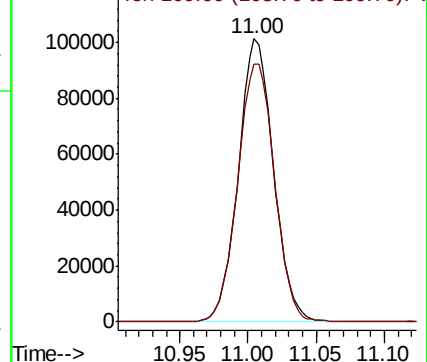
Ion Ratio Lower Upper

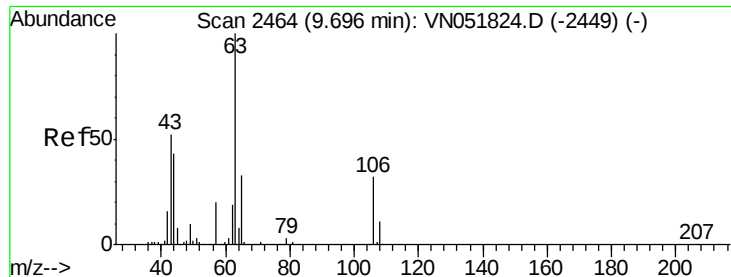
107 100

109 95.8 77.4 116.0



Abundance Ion 107.00 (106.70 to 107.70): V  
Ion 109.00 (108.70 to 109.70): V

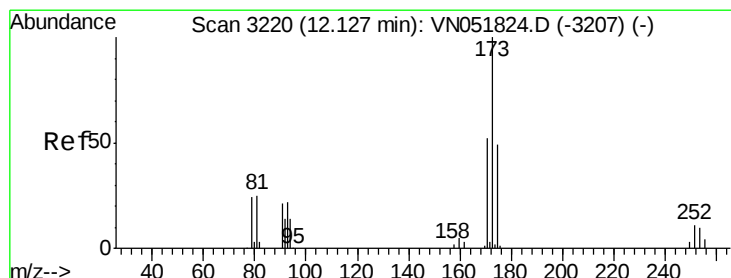
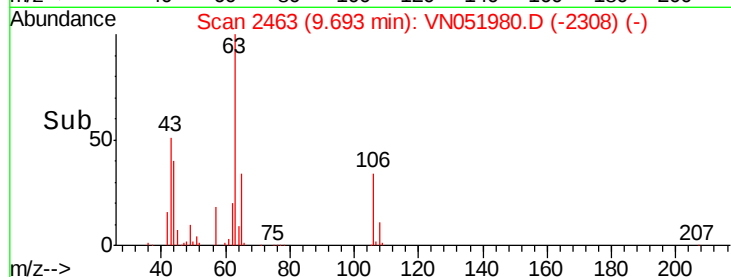
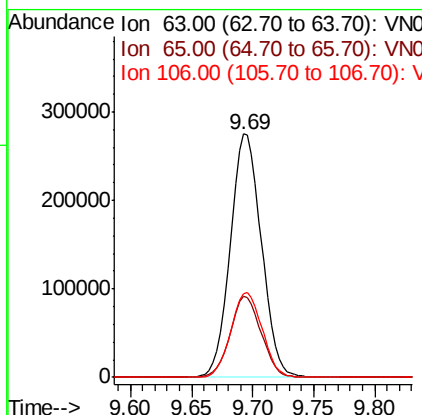
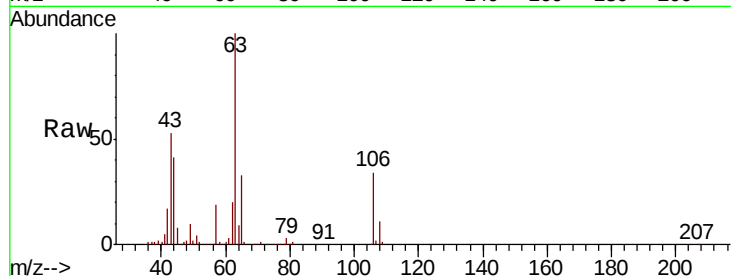




#55  
 2-Chloroethyl vinyl ether  
 Concen: 312308.106 ug/l  
 RT: 9.69 min Scan# 2463  
 Delta R.T. -0.00 min  
 Lab File: VN051980.D  
 Acq: 24 Oct 2018 11:47

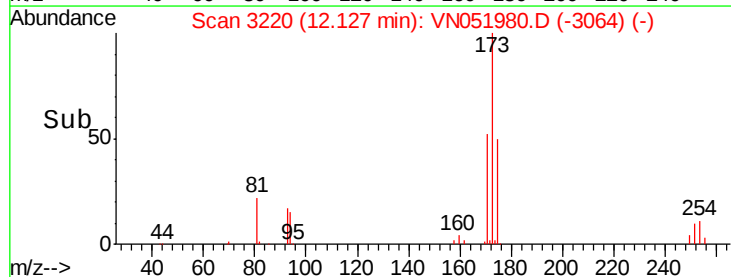
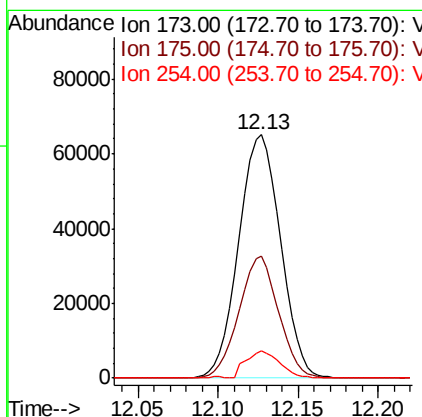
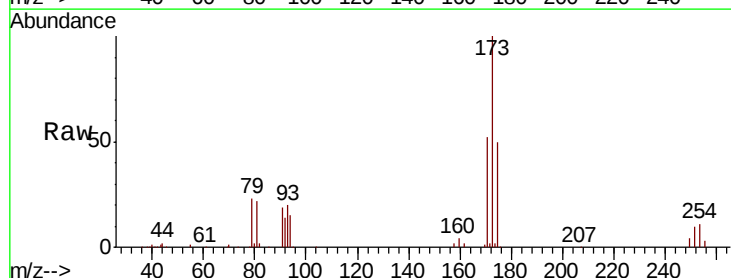
Instrument :  
 MSVOA\_N  
 ClientSampleId :

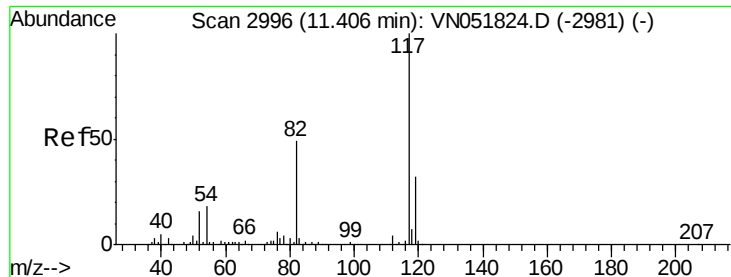
Tot Ion: 63 Resp: 488382  
 Ion Ratio Lower Upper  
 63 100  
 65 33.2 25.4 38.0  
 106 35.1 21.2 31.8#



#56  
 Bromoform  
 Concen: 44675.034 ug/l  
 RT: 12.13 min Scan# 3220  
 Delta R.T. 0.00 min  
 Lab File: VN051980.D  
 Acq: 24 Oct 2018 11:47

Tgt Ion: 173 Resp: 116460  
 Ion Ratio Lower Upper  
 173 100  
 175 47.1 35.8 53.8  
 254 9.0 8.6 13.0

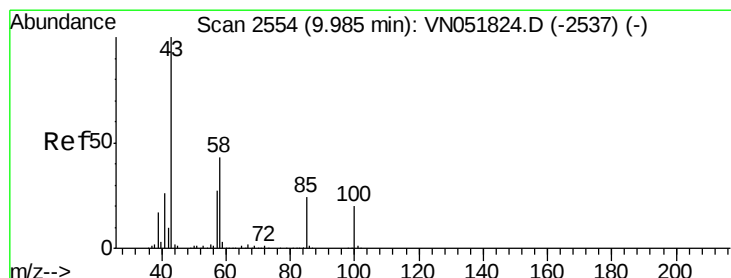
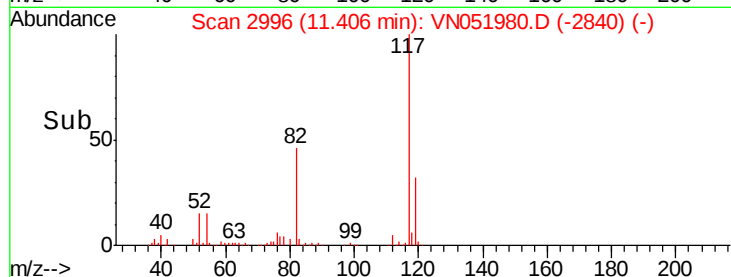
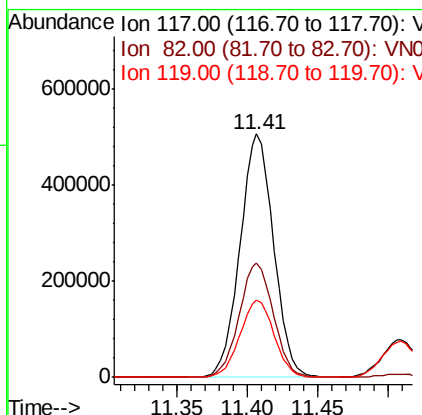
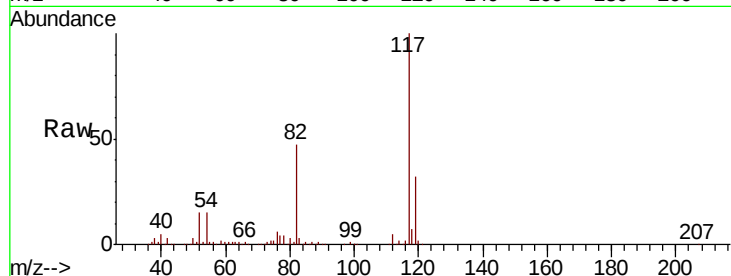




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

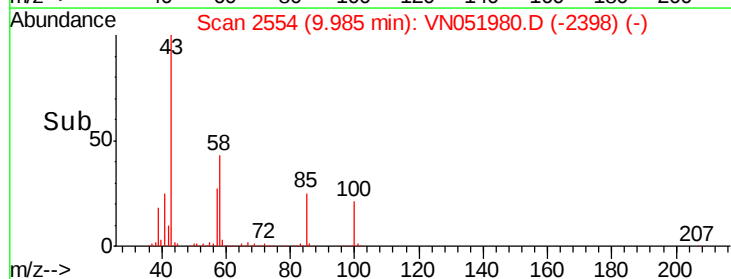
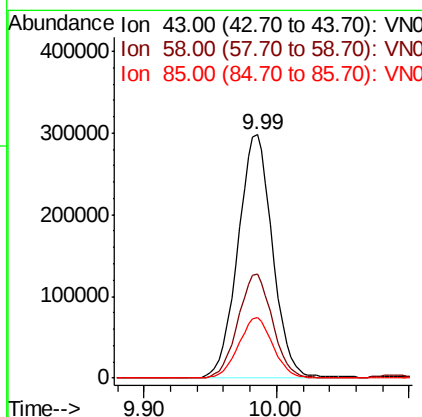
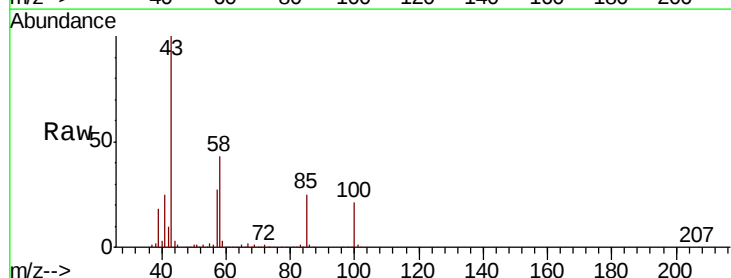
Instrument :  
MSVOA\_N  
ClientSampleId :

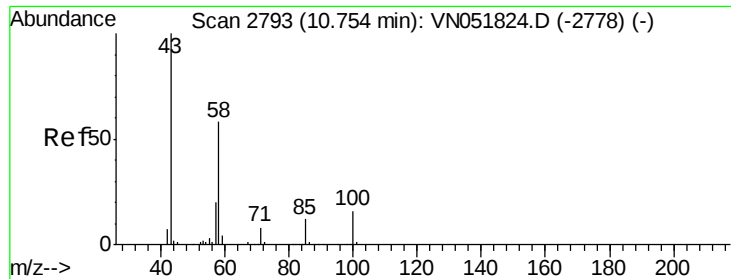
Tot Ion:117 Resp: 847702  
Ion Ratio Lower Upper  
117 100  
82 47.6 44.1 66.1  
119 32.1 25.8 38.8



#58  
4-Methyl-2-Pentanone  
Concen: 94.594 ug/l  
RT: 9.99 min Scan# 2554  
Delta R.T. 0.00 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

Tgt Ion: 43 Resp: 536610  
Ion Ratio Lower Upper  
43 100  
58 42.8 29.3 43.9  
85 24.8 12.6 18.8#

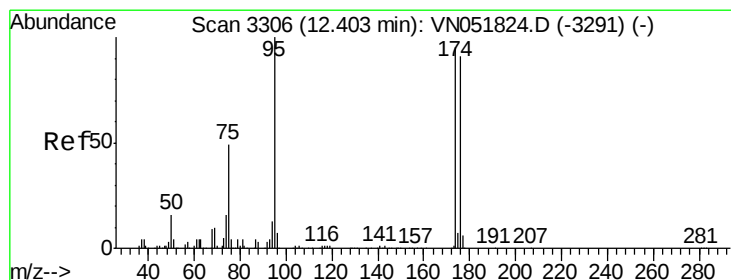
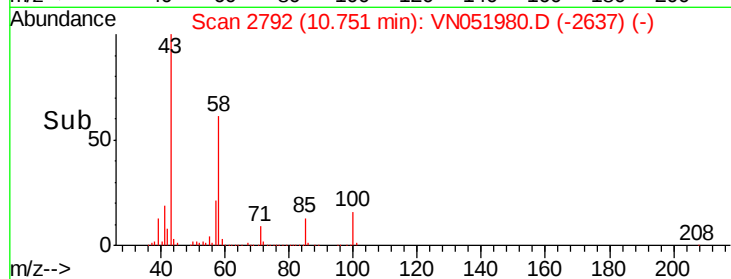
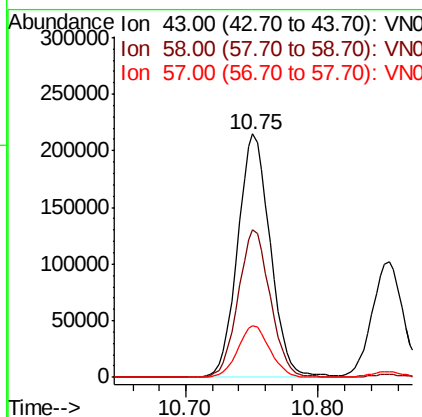
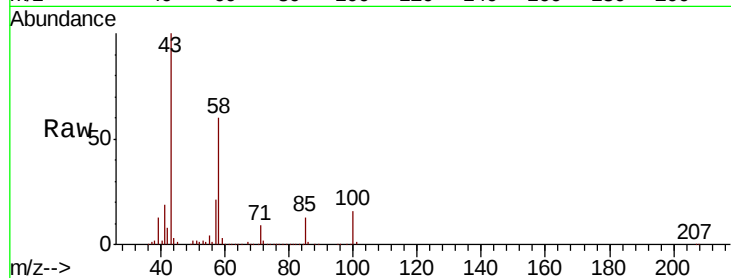




#59  
2-Hexanone  
Concen: 95.246 ug/l  
RT: 10.75 min Scan# 2792  
Delta R.T. -0.00 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

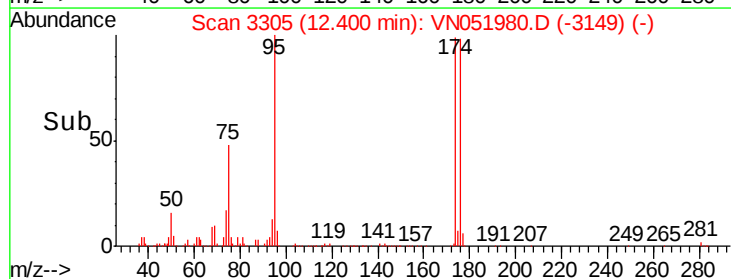
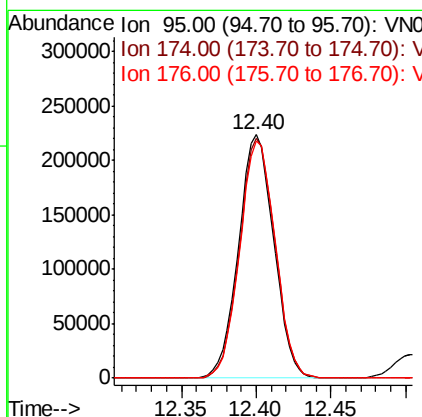
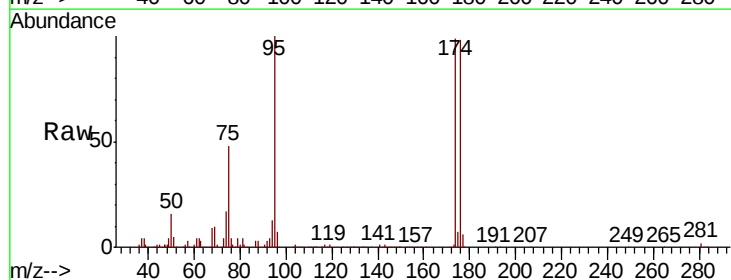
Instrument :  
MSVOA\_N  
ClientSampleId :

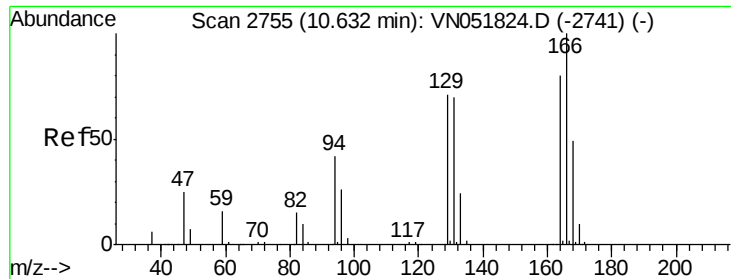
Tot Ion: 43 Resp: 364513  
Ion Ratio Lower Upper  
43 100  
58 59.8 41.3 61.9  
57 20.9 13.4 20.0#



#60  
4-Bromofluorobenzene  
Concen: 95.246 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. 0.00 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

Tgt Ion: 95 Resp: 368094  
Ion Ratio Lower Upper  
95 100  
174 98.5 73.5 110.3  
176 97.8 70.2 105.2





#61

Tetrachloroethene

Concen: 19.235 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN051980.D

Acq: 24 Oct 2018 11:47

Instrument :

MSVOA\_N

ClientSampled :

Tot Ion:164 Resp: 208521

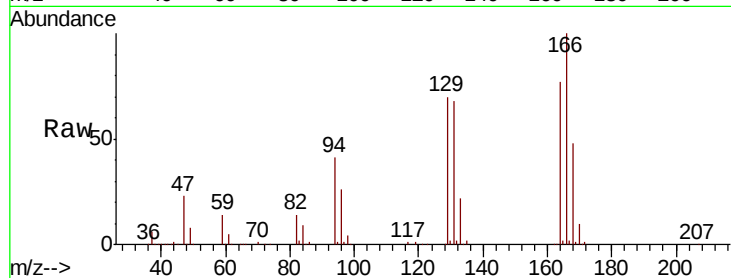
Ion Ratio Lower Upper

164 100

166 130.4 98.7 148.1

129 91.3 69.6 104.4

131 87.9 72.4 108.6

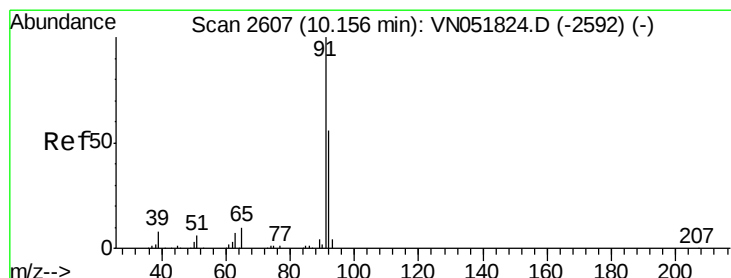
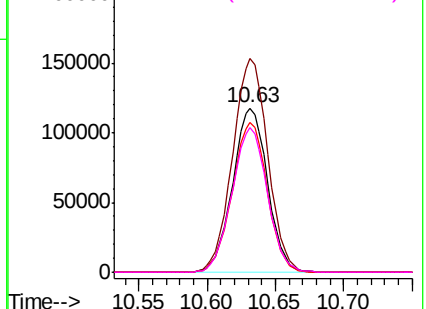
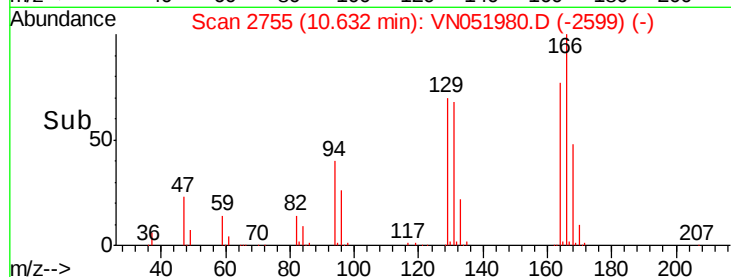


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 20.015 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN051980.D

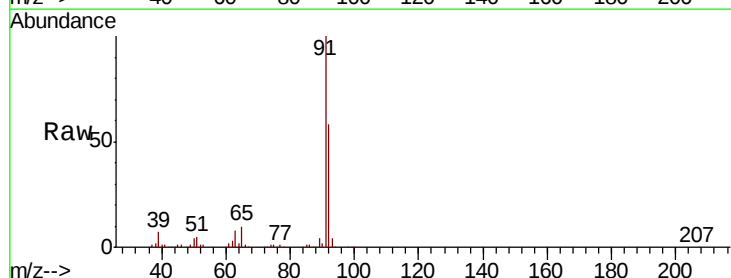
Acq: 24 Oct 2018 11:47

Tgt Ion: 91 Resp: 842891

Ion Ratio Lower Upper

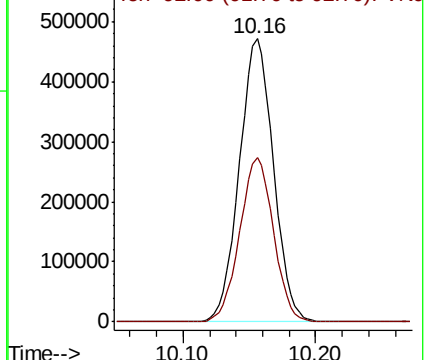
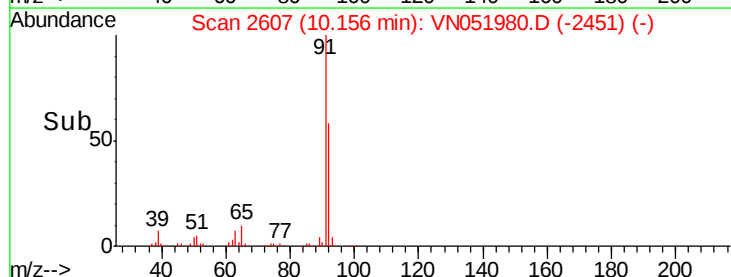
91 100

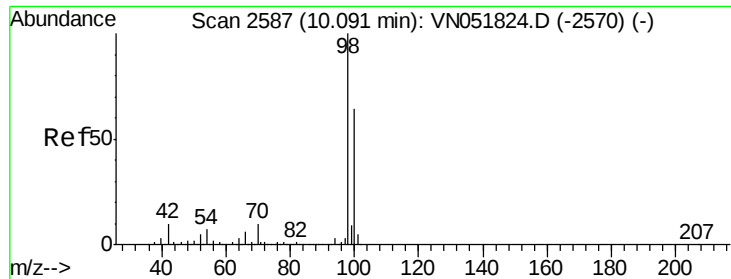
92 57.5 44.6 66.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 20.015 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051980.D

Acq: 24 Oct 2018 11:47

Instrument :

MSVOA\_N

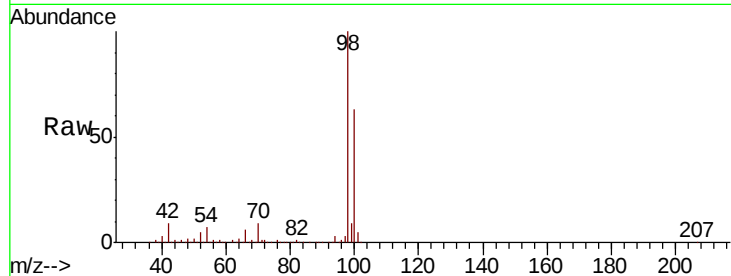
ClientSampleId :

Tot Ion: 98 Resp: 1072606

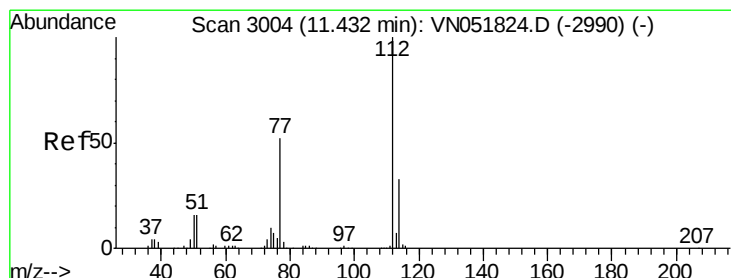
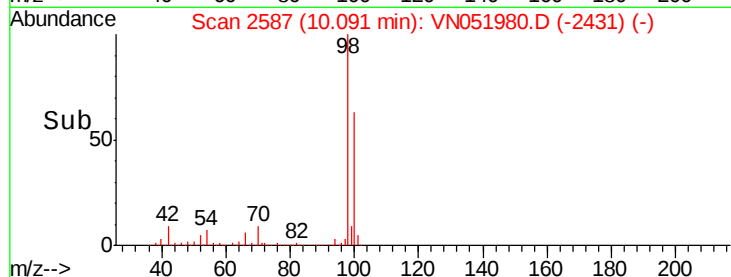
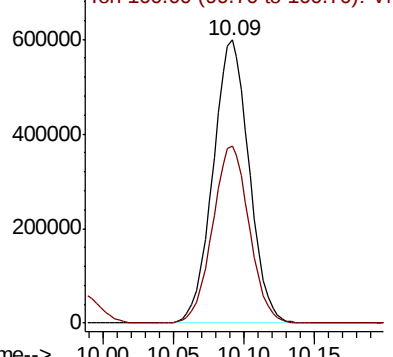
Ion Ratio Lower Upper

98 100

100 63.3 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VN051824.D (-2570) (-)



#64

Chlorobenzene

Concen: 20.750 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN051980.D

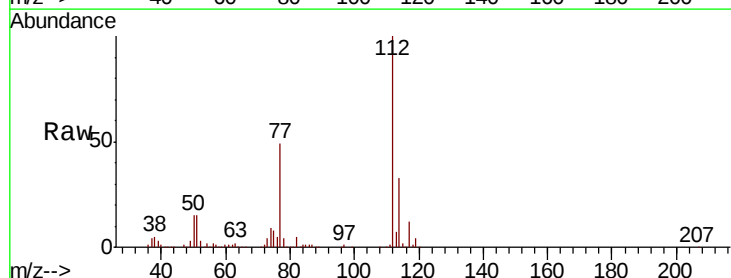
Acq: 24 Oct 2018 11:47

Tgt Ion: 112 Resp: 572289

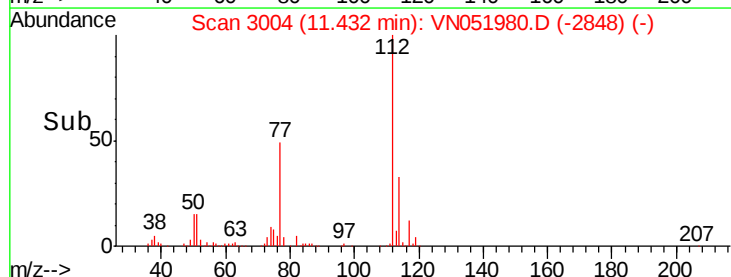
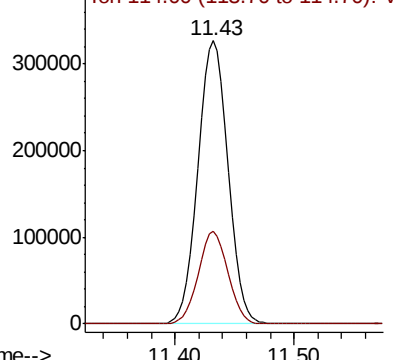
Ion Ratio Lower Upper

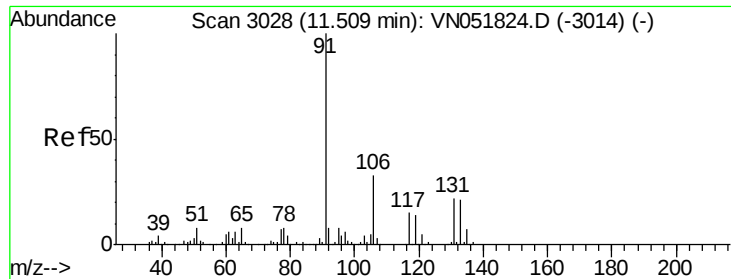
112 100

114 32.7 27.5 41.3



Abundance Ion 112.00 (111.70 to 112.70): VN051824.D (-2990) (-)





#65

1,1,1,2-Tetrachloroethane

Concen: 19.221 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN051980.D

Acq: 24 Oct 2018 11:47

Instrument :

MSVOA\_N

ClientSampled :

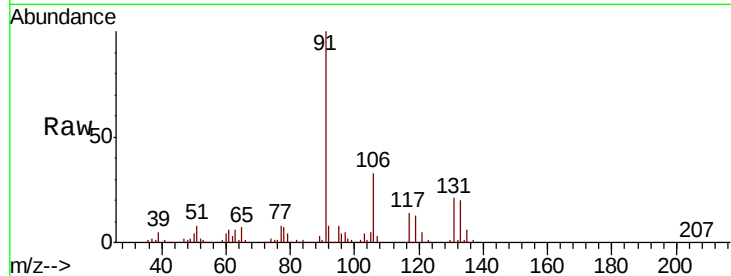
Tot Ion:131 Resp: 203478

Ion Ratio Lower Upper

131 100

133 96.7 0.0 190.4

119 64.7 0.0 128.0

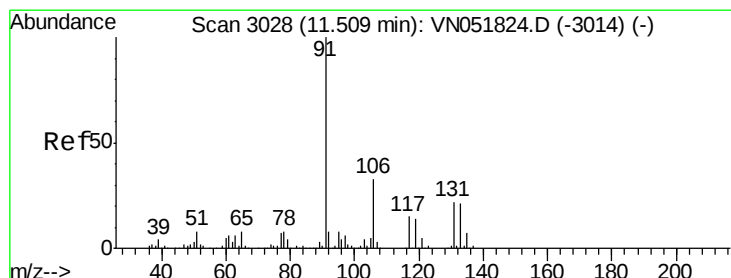
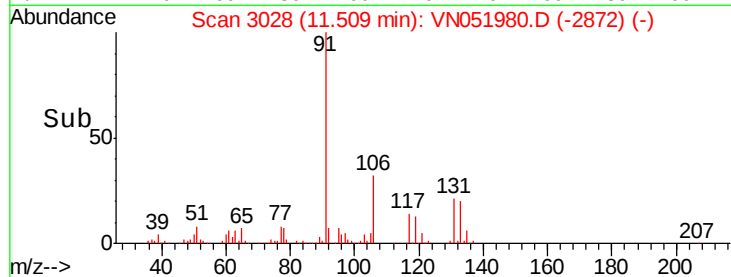
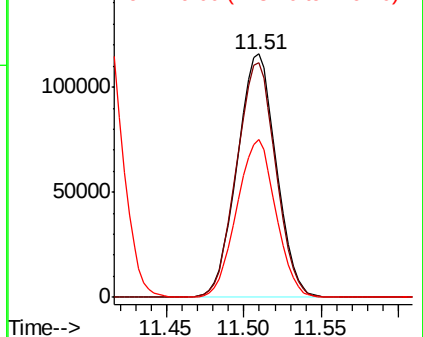


Abundance

Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#66

Ethyl Benzene

Concen: 19.958 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN051980.D

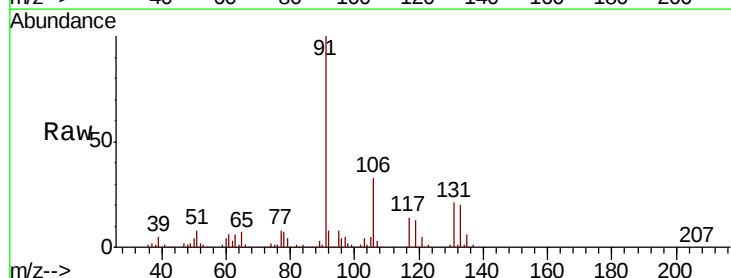
Acq: 24 Oct 2018 11:47

Tgt Ion: 91 Resp: 928878

Ion Ratio Lower Upper

91 100

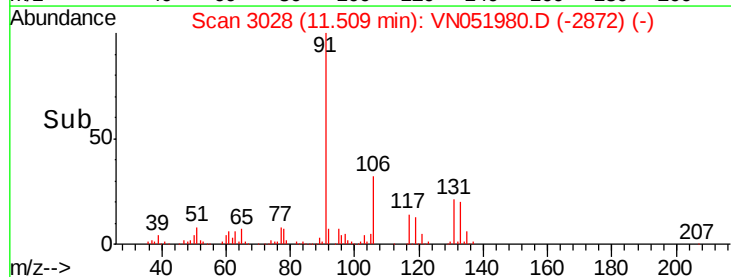
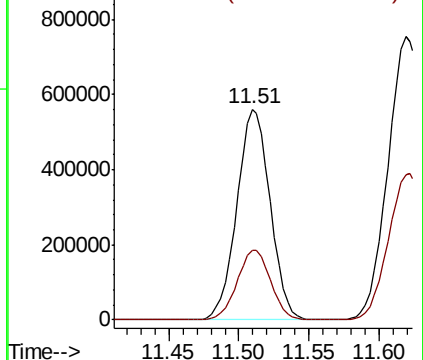
106 33.0 25.9 38.9

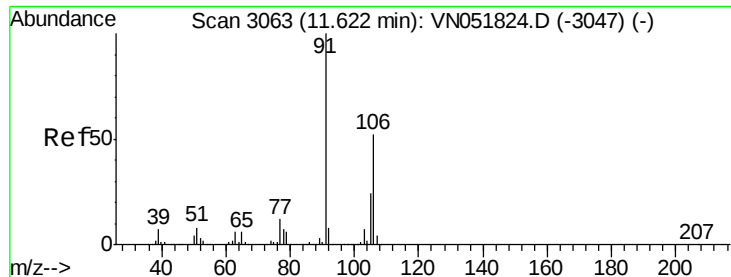


Abundance

Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

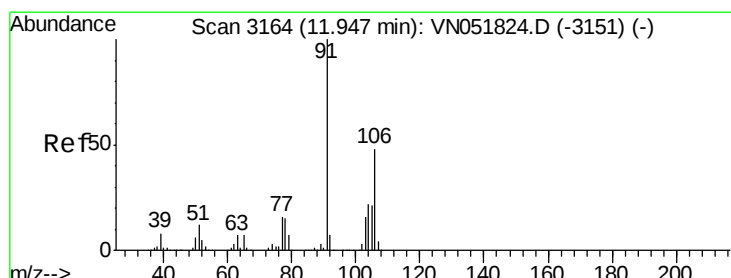
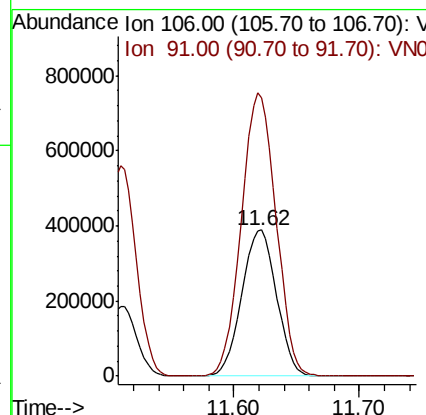
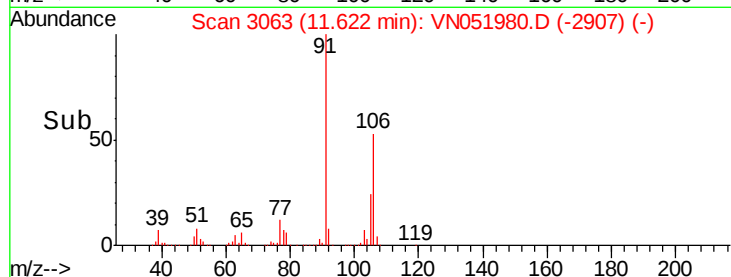
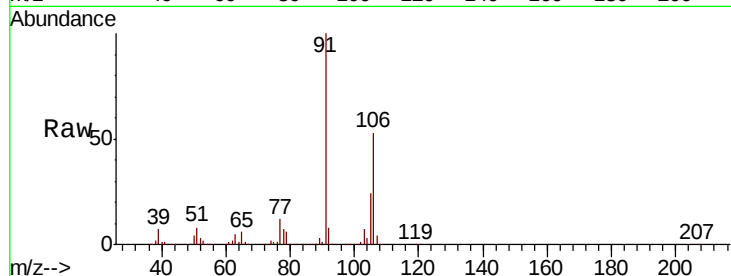




#67  
m/p-Xylenes  
Concen: 39.732 ug/l  
RT: 11.62 min Scan# 3063  
Delta R.T. 0.00 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

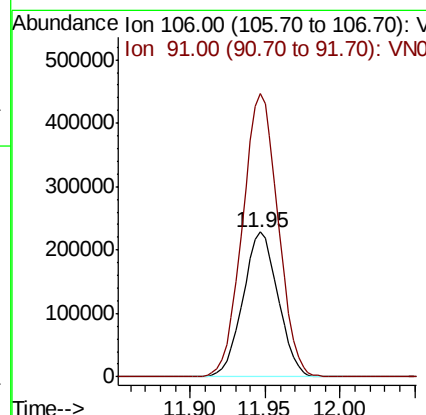
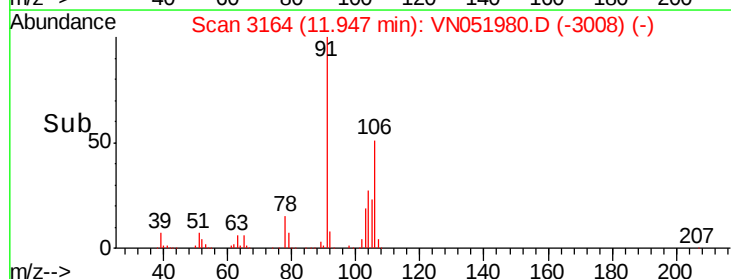
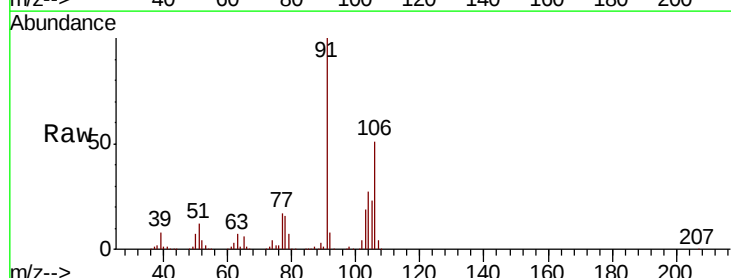
Instrument :  
MSVOA\_N  
ClientSampled :

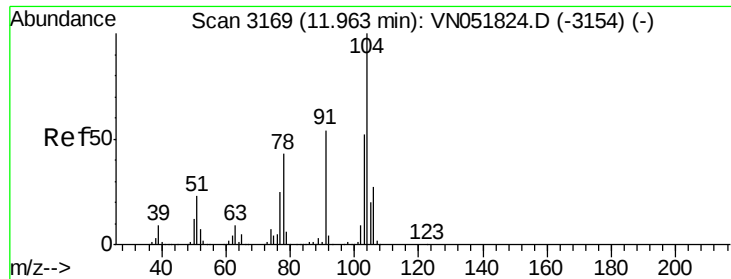
Tot Ion:106 Resp: 749728  
Ion Ratio Lower Upper  
106 100  
91 192.8 158.8 238.2



#68  
o-Xylene  
Concen: 20.093 ug/l  
RT: 11.95 min Scan# 3164  
Delta R.T. 0.00 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

Tgt Ion:106 Resp: 373769  
Ion Ratio Lower Upper  
106 100  
91 197.7 111.1 333.3

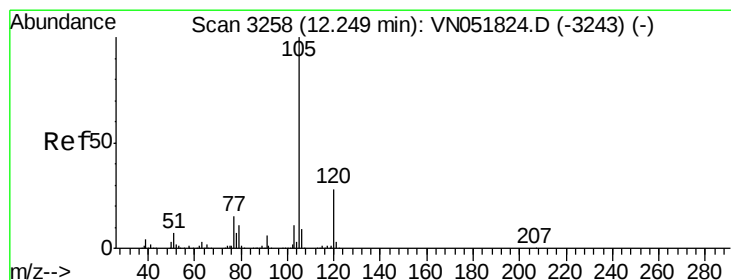
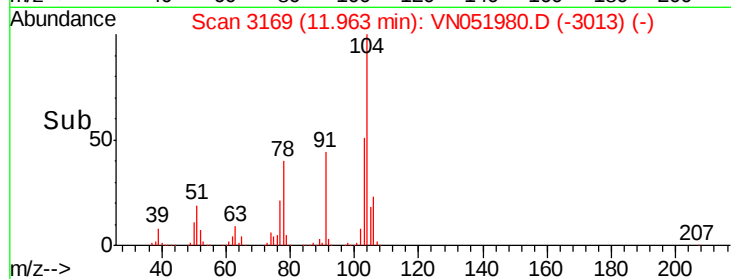
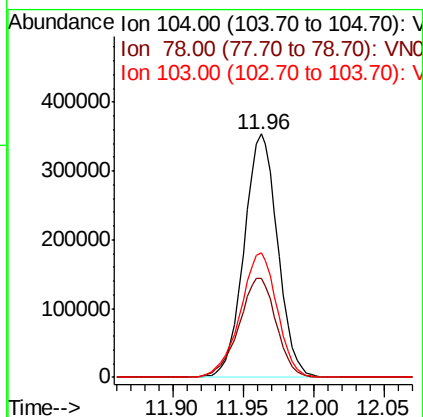
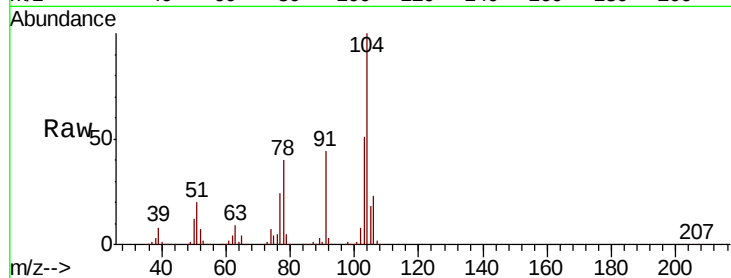




#69  
Stvrene  
Concen: 20.677 ug/l  
RT: 11.96 min Scan# 3169  
Delta R.T. 0.00 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

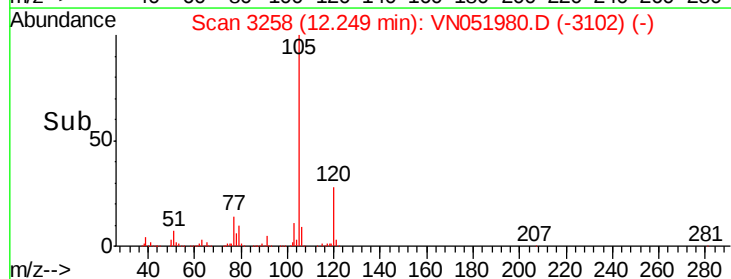
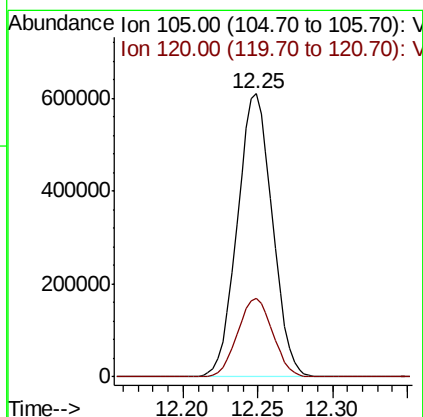
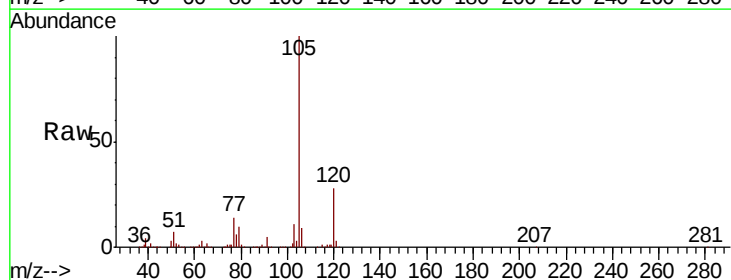
Instrument :  
MSVOA\_N  
ClientSampleId :

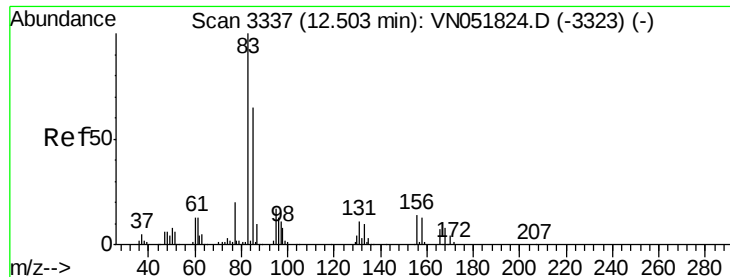
Tot Ion:104 Resp: 590142  
Ion Ratio Lower Upper  
104 100  
78 45.0 40.6 60.8  
103 56.1 44.0 66.0



#70  
Isopropylbenzene  
Concen: 20.025 ug/l  
RT: 12.25 min Scan# 3258  
Delta R.T. 0.00 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

Tgt Ion:105 Resp: 993336  
Ion Ratio Lower Upper  
105 100  
120 27.8 19.0 35.4

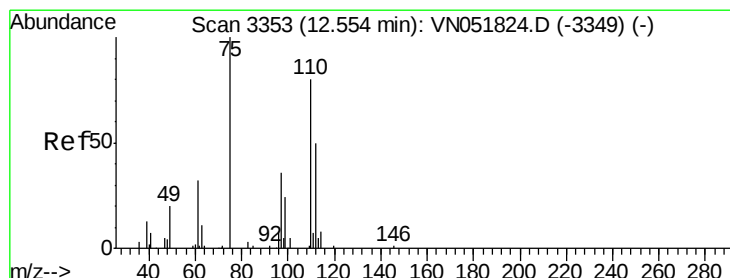
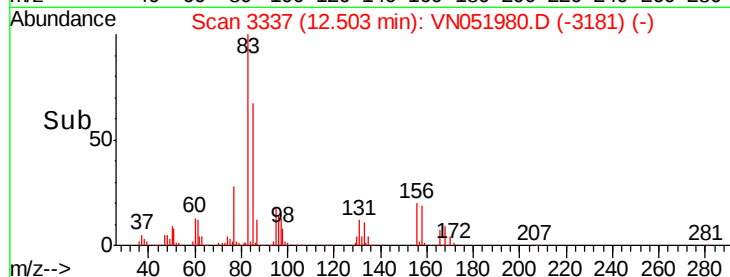
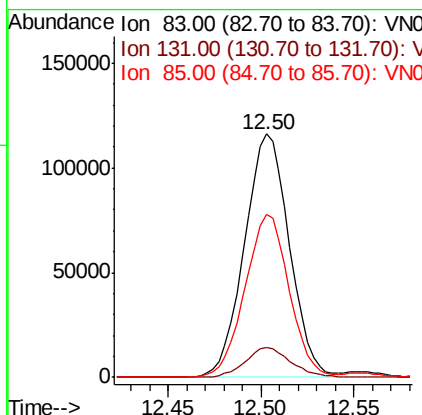
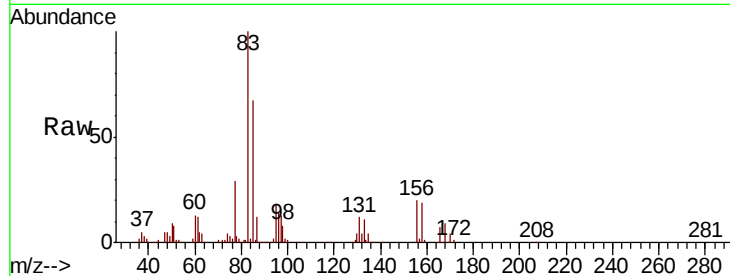




#71  
 1,1,2,2-Tetrachloroethane  
 Concen: 20.050 ug/l  
 RT: 12.50 min Scan# 3337  
 Delta R.T. 0.00 min  
 Lab File: VN051980.D  
 Acq: 24 Oct 2018 11:47

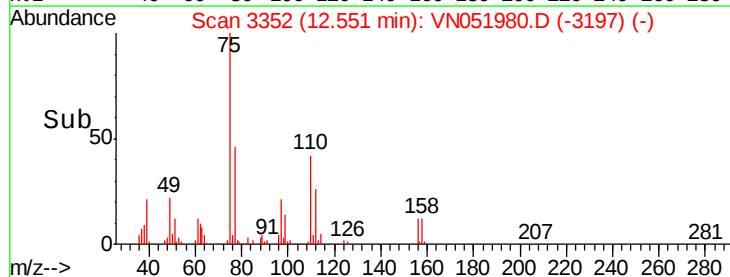
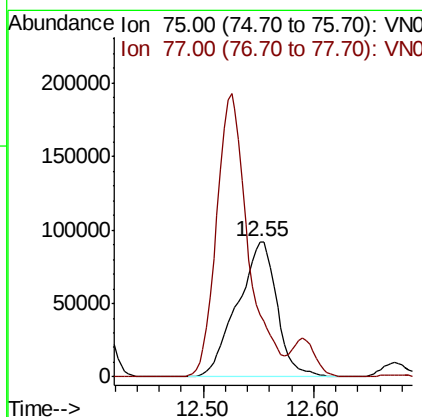
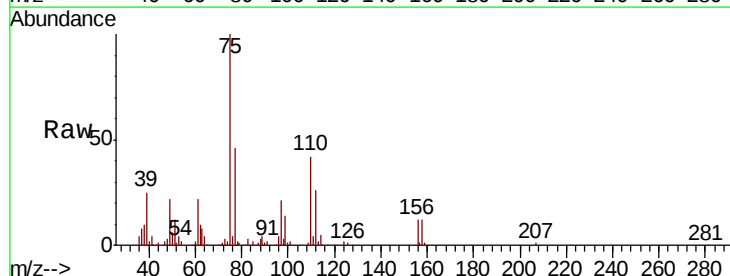
Instrument :  
 MSVOA\_N  
 ClientSampleId :

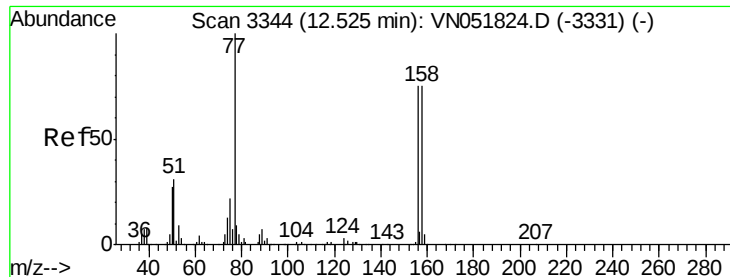
| Tot Ion   | 83    | Resp  | 196413 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 131       | 12.4  | 5.5   | 16.4   |
| 85        | 65.8  | 30.6  | 91.8   |



#72  
 1,2,3-Trichloropropane  
 Concen: 29.700 ug/l  
 RT: 12.55 min Scan# 3352  
 Delta R.T. -0.00 min  
 Lab File: VN051980.D  
 Acq: 24 Oct 2018 11:47

| Tgt Ion   | 75    | Resp  | 228890 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 77        | 167.9 | 0.0   | 400.0  |





#73

Bromobenzene

Concen: 21.699 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN051980.D

Acq: 24 Oct 2018 11:47

Instrument :

MSVOA\_N

ClientSampled :

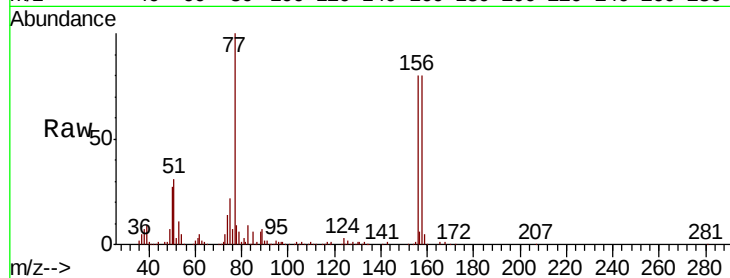
Tot Ion:156 Resp: 266619

Ion Ratio Lower Upper

156 100

77 144.2 0.0 377.4

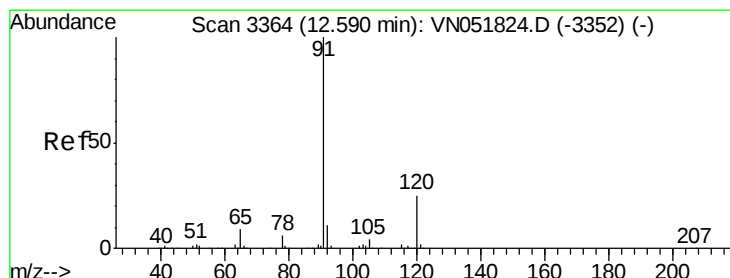
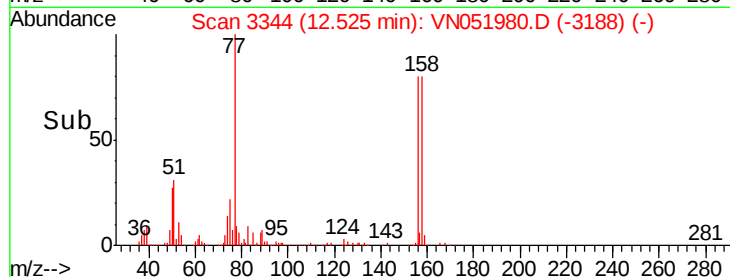
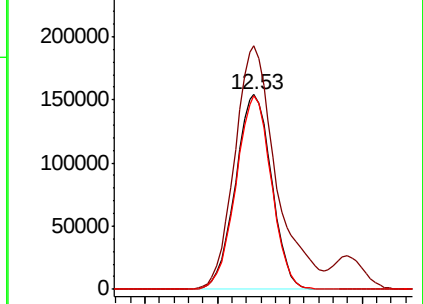
158 97.5 0.0 203.0



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 20.280 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN051980.D

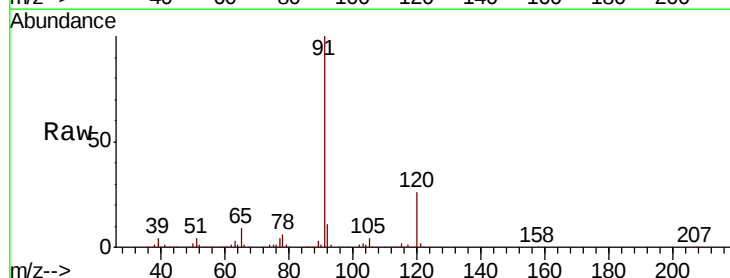
Acq: 24 Oct 2018 11:47

Tgt Ion: 91 Resp: 1082100

Ion Ratio Lower Upper

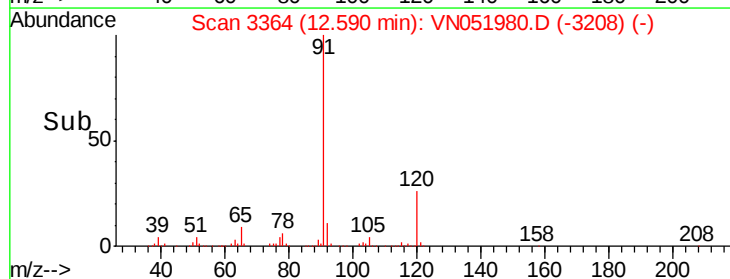
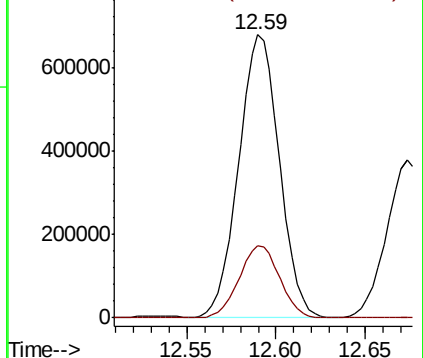
91 100

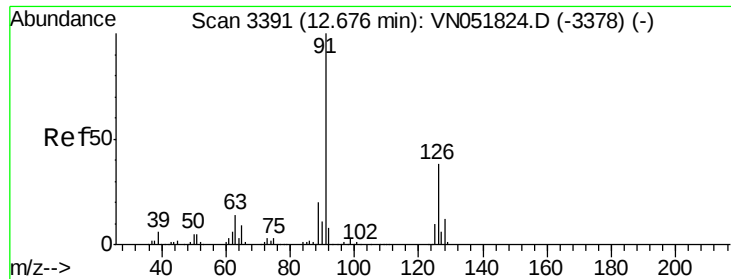
120 25.4 0.0 45.0



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 19.961 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN051980.D

Acq: 24 Oct 2018 11:47

Instrument :

MSVOA\_N

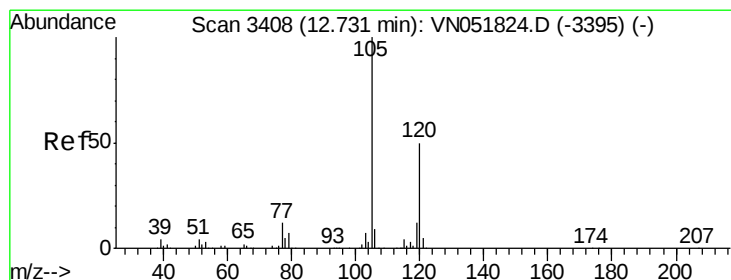
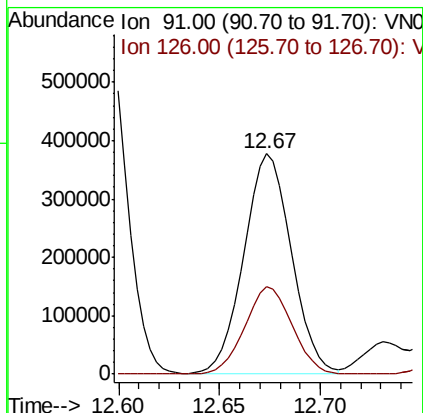
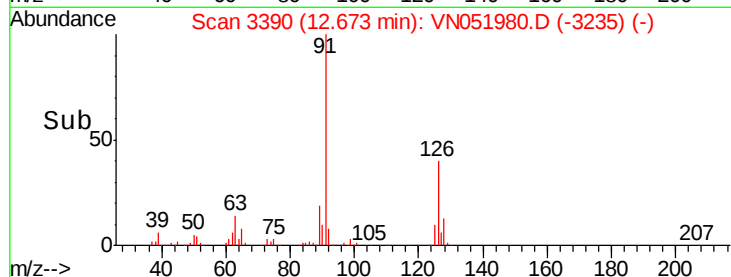
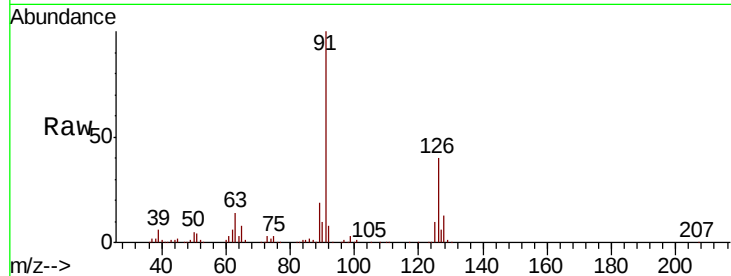
ClientSampleId :

Tot Ion: 91 Resp: 624423

Ion Ratio Lower Upper

91 100

126 39.5 0.0 67.6



#76

1,3,5-Trimethylbenzene

Concen: 19.940 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN051980.D

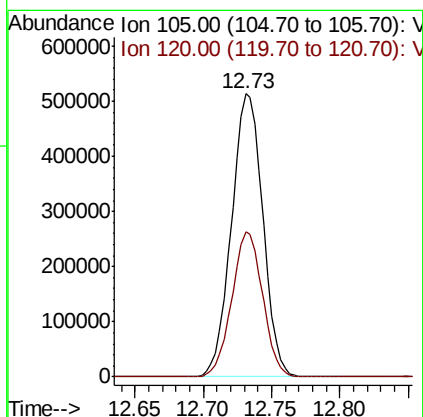
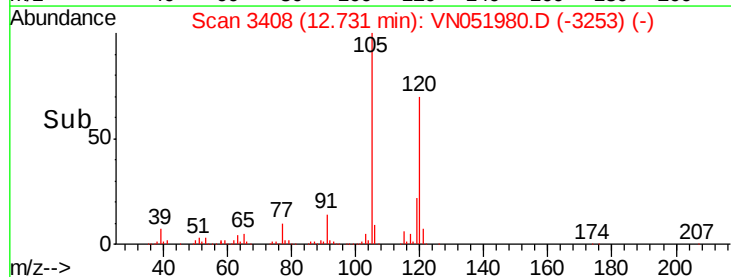
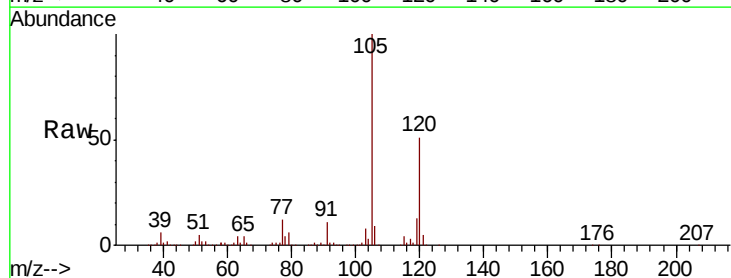
Acq: 24 Oct 2018 11:47

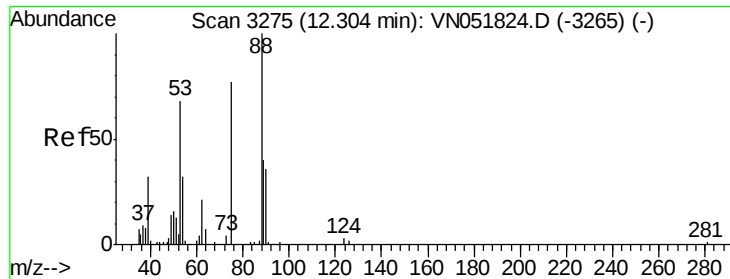
Tgt Ion: 105 Resp: 817947

Ion Ratio Lower Upper

105 100

120 50.6 0.0 98.2

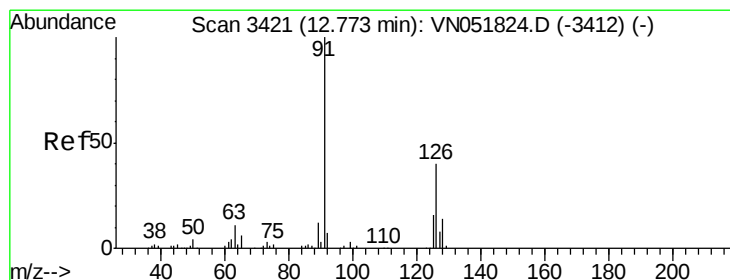
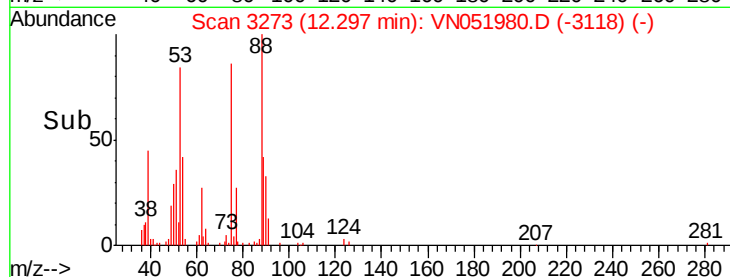
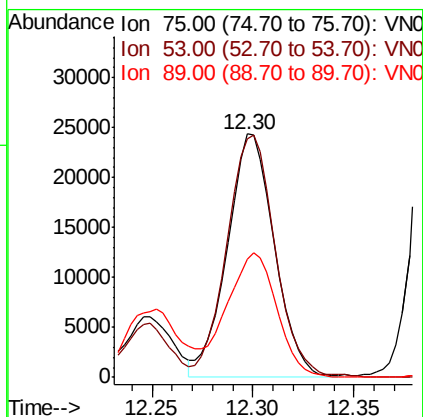
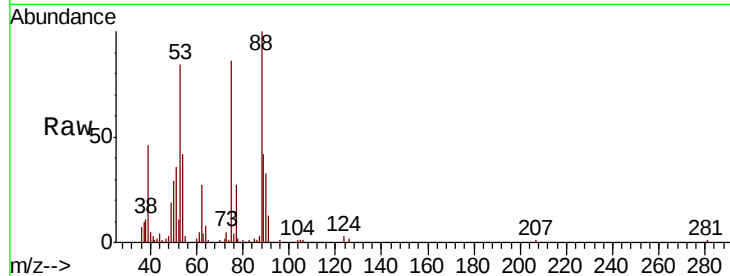




#77  
t-1,4-Dichloro-2-butene  
Concen: 15.656 ug/l  
RT: 12.30 min Scan# 3273  
Delta R.T. -0.00 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

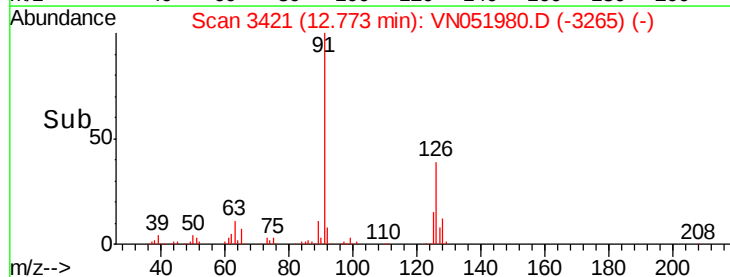
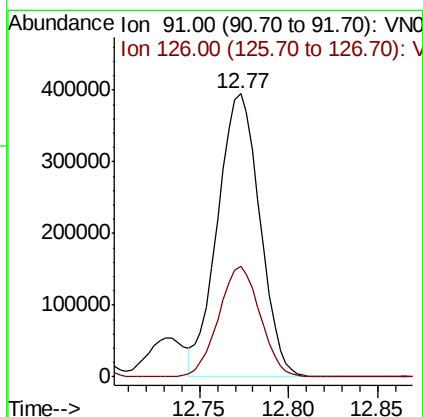
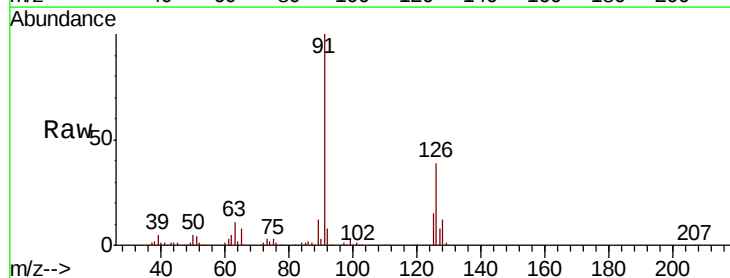
Instrument :  
MSVOA\_N  
ClientSampled :

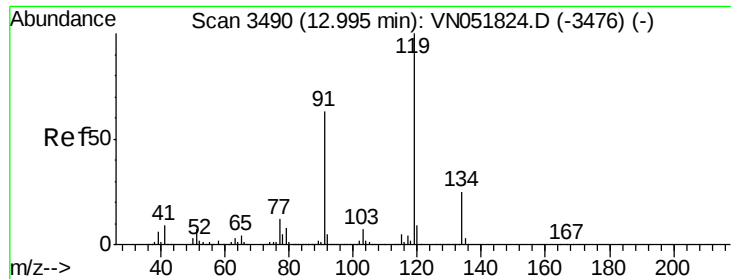
Tot Ion: 75 Resp: 39904  
Ion Ratio Lower Upper  
75 100  
53 97.4 46.3 138.9  
89 48.9 24.6 73.8



#78  
4-Chlorotoluene  
Concen: 21.081 ug/l  
RT: 12.77 min Scan# 3421  
Delta R.T. 0.00 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

Tgt Ion: 91 Resp: 647936  
Ion Ratio Lower Upper  
91 100  
126 38.3 0.0 65.2

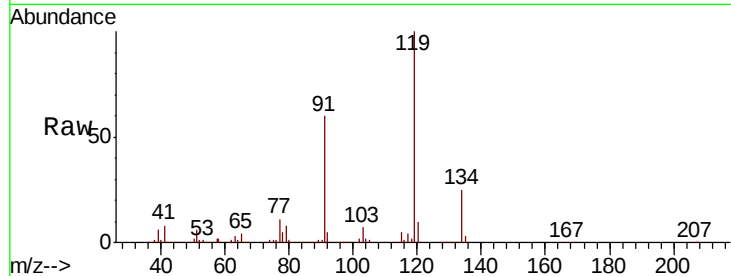




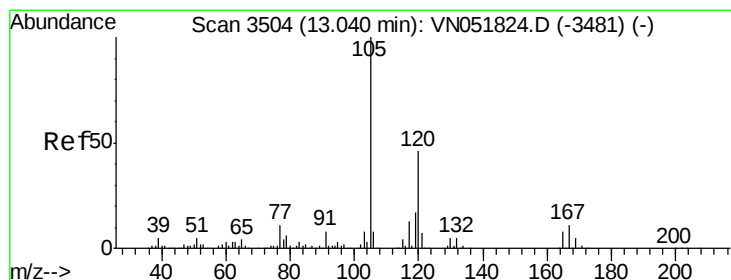
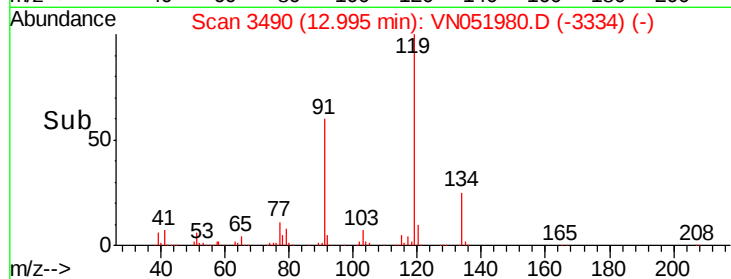
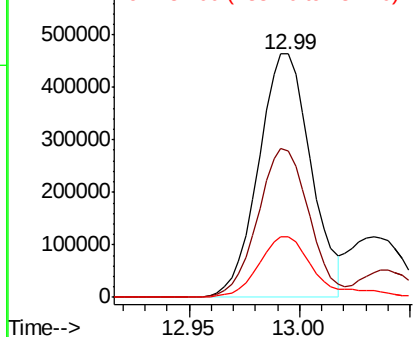
#79  
tert-butylbenzene  
Concen: 20.233 ug/l  
RT: 12.99 min Scan# 3490  
Delta R.T. 0.00 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:119 Resp: 763256  
Ion Ratio Lower Upper  
119 100  
91 59.8 0.0 131.6  
134 27.1 0.0 46.2

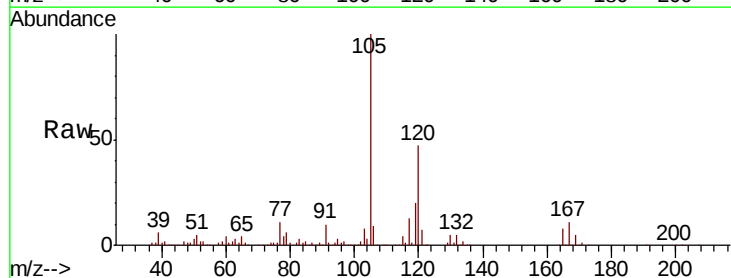


Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 91.00 (90.70 to 91.70): V  
Ion 134.00 (133.70 to 134.70): V

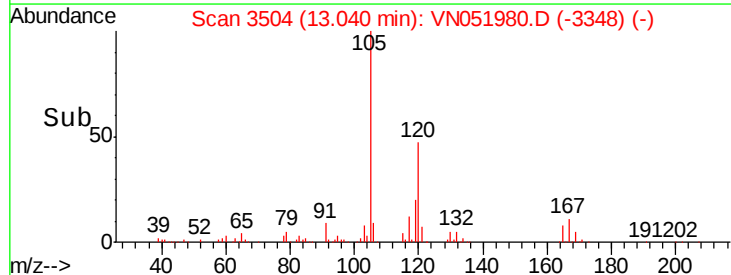
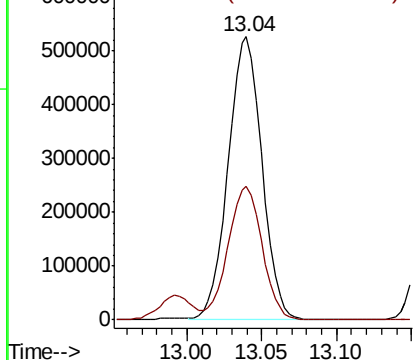


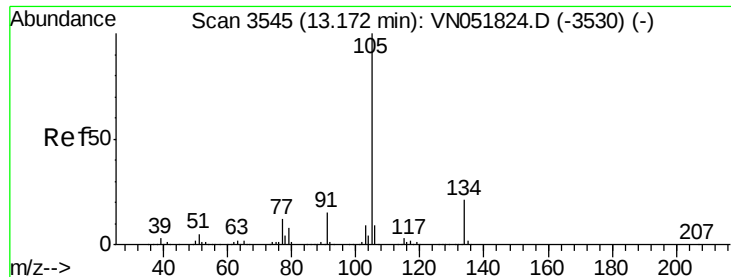
#80  
1,2,4-Trimethylbenzene  
Concen: 20.205 ug/l  
RT: 13.04 min Scan# 3504  
Delta R.T. 0.00 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

Tgt Ion:105 Resp: 828355  
Ion Ratio Lower Upper  
105 100  
120 47.3 0.0 89.6



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

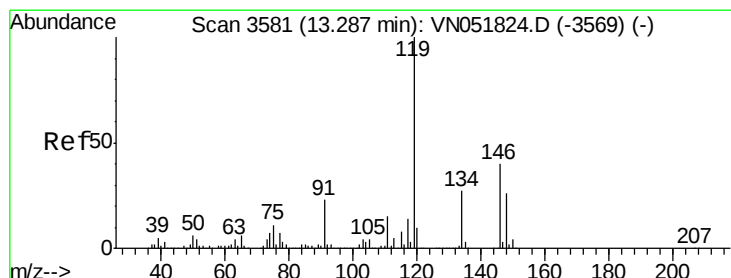
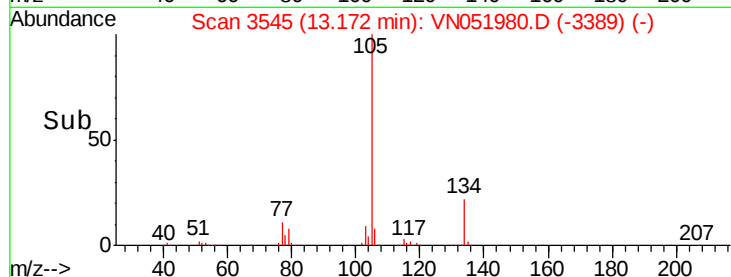
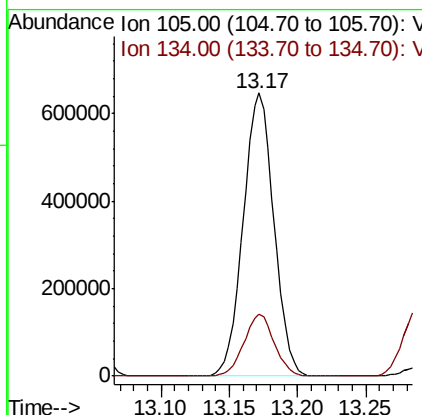
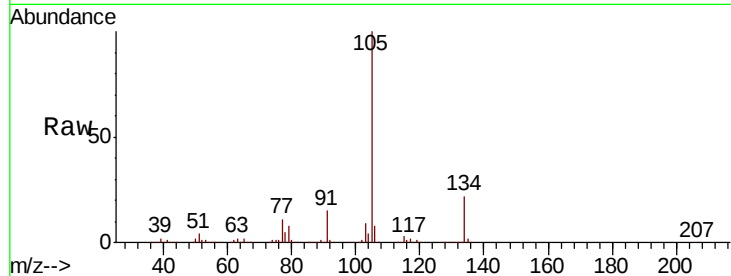




#81  
 sec-Butylbenzene  
 Concen: 20.405 ug/l  
 RT: 13.17 min Scan# 3545  
 Delta R.T. 0.00 min  
 Lab File: VN051980.D  
 Acq: 24 Oct 2018 11:47

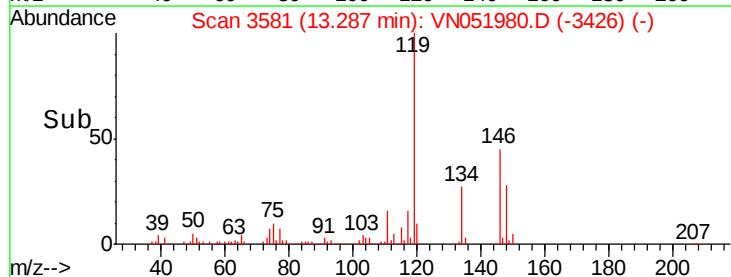
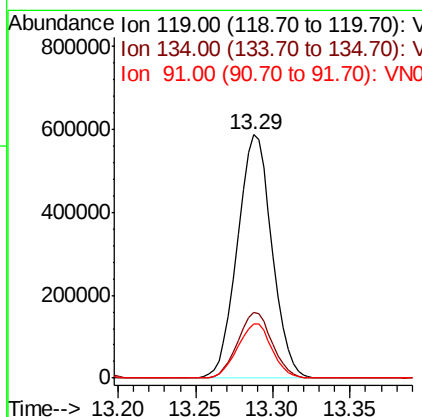
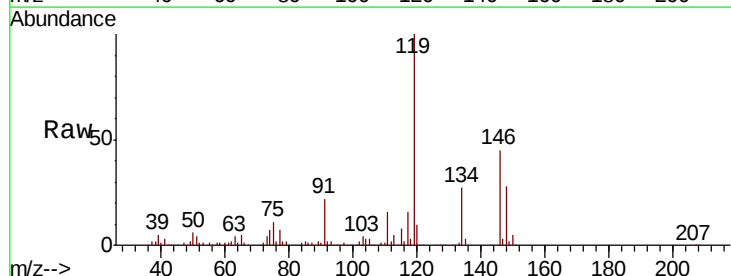
Instrument :  
 MSVOA\_N  
 ClientSampleId :

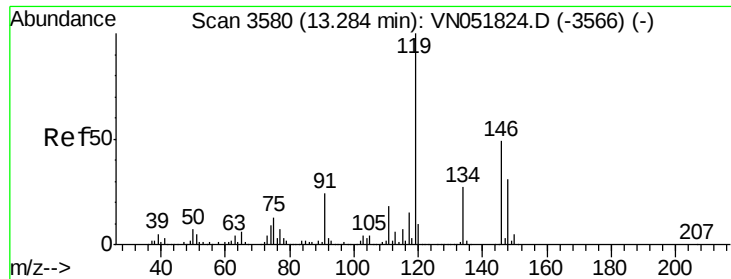
Tot Ion:105 Resp: 1006948  
 Ion Ratio Lower Upper  
 105 100  
 134 21.6 0.0 39.4



#82  
 p-Isopropyltoluene  
 Concen: 20.611 ug/l  
 RT: 13.29 min Scan# 3581  
 Delta R.T. -0.00 min  
 Lab File: VN051980.D  
 Acq: 24 Oct 2018 11:47

Tgt Ion:119 Resp: 910190  
 Ion Ratio Lower Upper  
 119 100  
 134 26.8 0.0 53.6  
 91 22.3 0.0 52.0

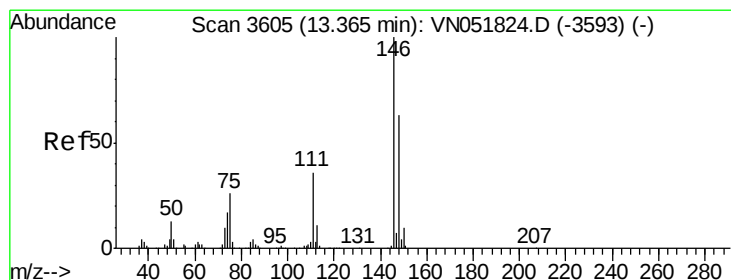
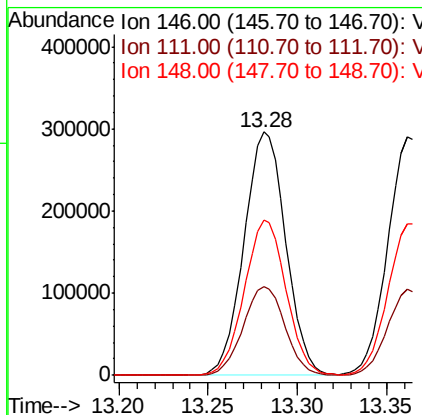
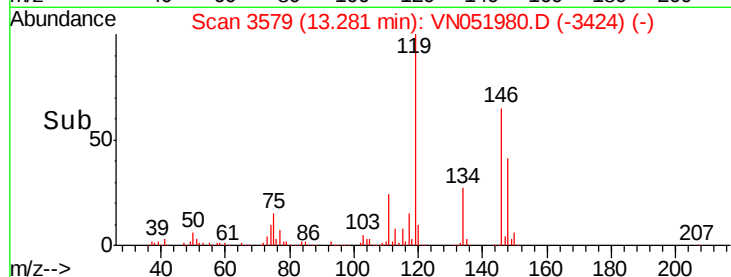
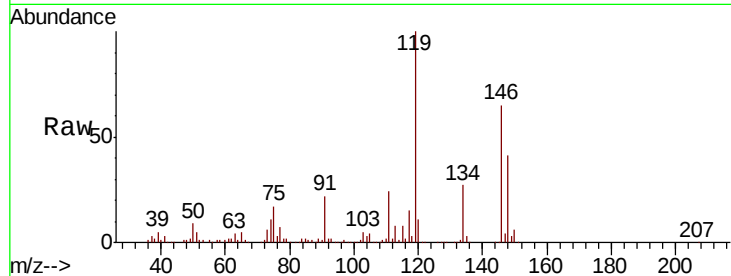




#83  
 1,3-Dichlorobenzene  
 Concen: 22.297 ug/l  
 RT: 13.28 min Scan# 3579  
 Delta R.T. -0.00 min  
 Lab File: VN051980.D  
 Acq: 24 Oct 2018 11:47

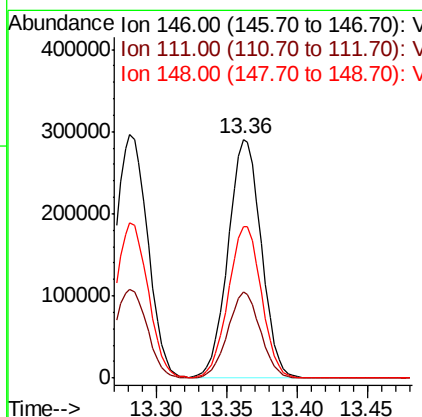
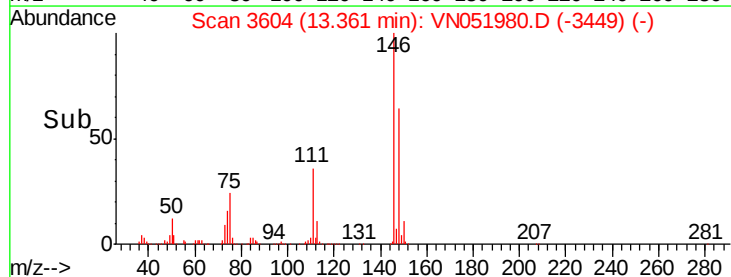
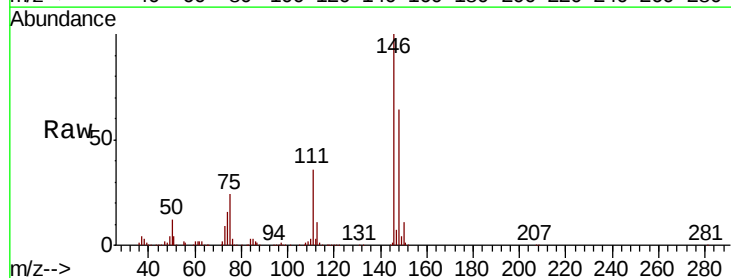
Instrument :  
 MSVOA\_N  
 ClientSampleId :

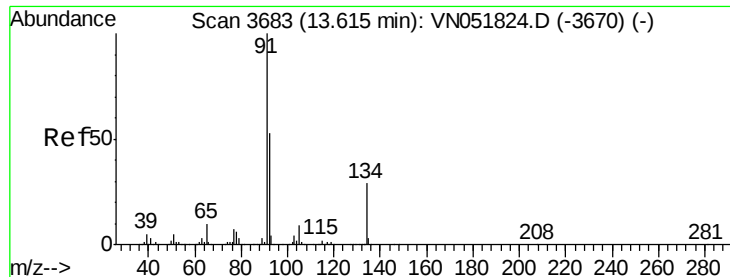
Tot Ion:146 Resp: 483425  
 Ion Ratio Lower Upper  
 146 100  
 111 36.6 18.1 54.3  
 148 63.8 31.3 93.8



#84  
 1,4-Dichlorobenzene  
 Concen: 23.370 ug/l  
 RT: 13.36 min Scan# 3604  
 Delta R.T. -0.00 min  
 Lab File: VN051980.D  
 Acq: 24 Oct 2018 11:47

Tgt Ion:146 Resp: 476997  
 Ion Ratio Lower Upper  
 146 100  
 111 35.2 17.4 52.2  
 148 63.6 32.8 98.3

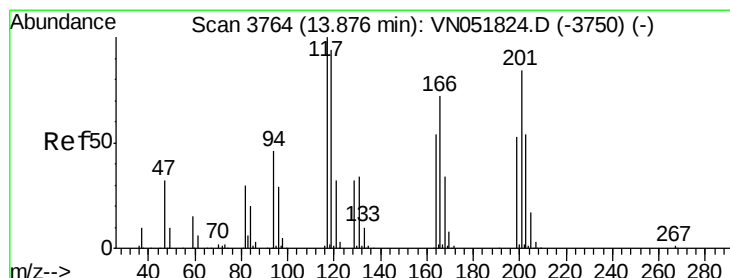
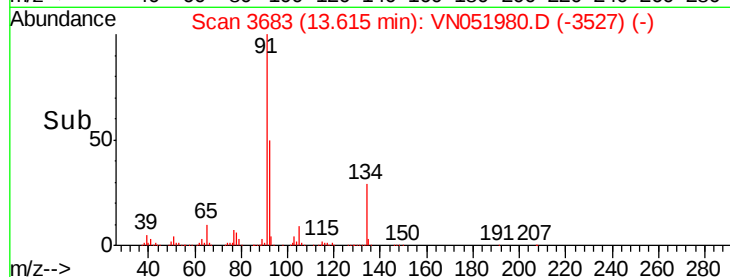
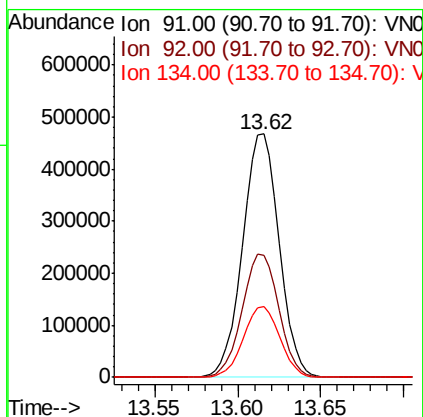
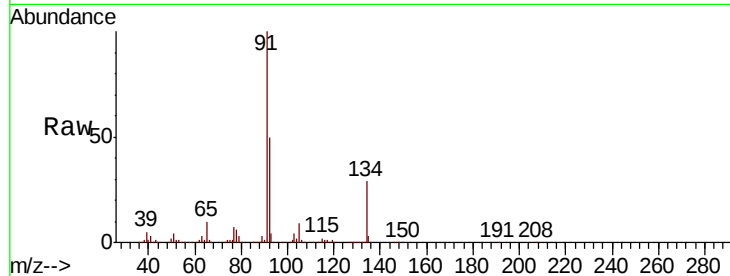




#85  
n-Butylbenzene  
Concen: 21.497 ug/l  
RT: 13.62 min Scan# 3683  
Delta R.T. 0.00 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

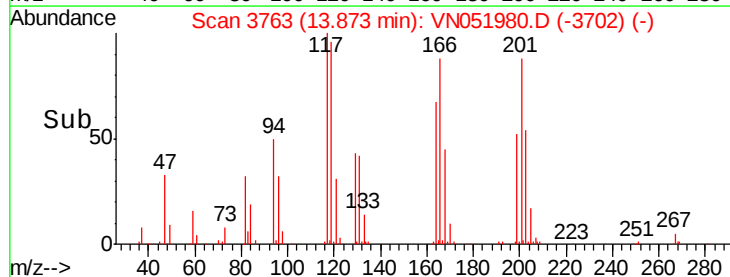
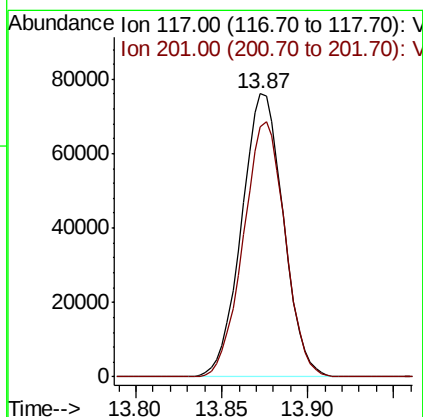
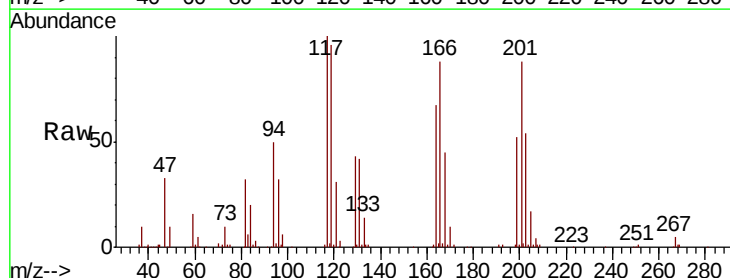
Instrument :  
MSVOA\_N  
ClientSampleId :

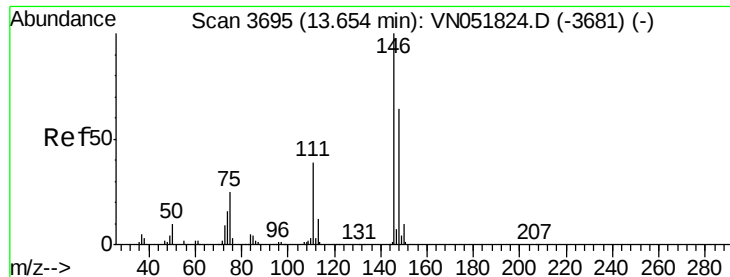
Tot Ion: 91 Resp: 715846  
Ion Ratio Lower Upper  
91 100  
92 50.8 0.0 97.4  
134 29.2 0.0 49.6



#86  
Hexachloroethane  
Concen: 16.894 ug/l  
RT: 13.87 min Scan# 3763  
Delta R.T. -0.00 min  
Lab File: VN051980.D  
Acq: 24 Oct 2018 11:47

Tgt Ion: 117 Resp: 128633  
Ion Ratio Lower Upper  
117 100  
201 89.4 47.8 143.3

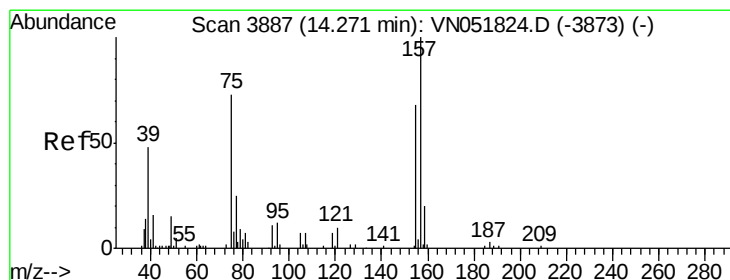
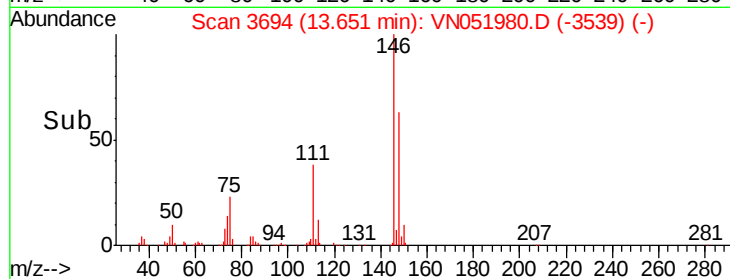
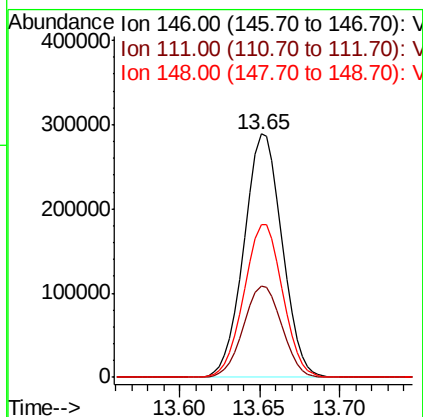
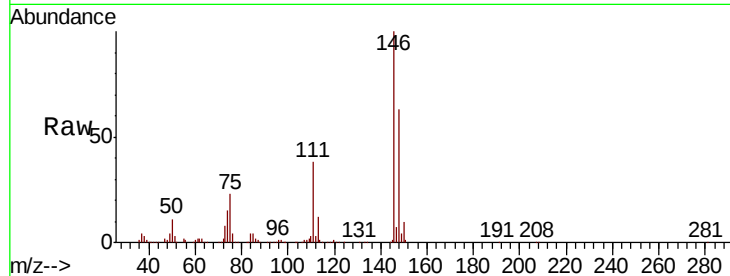




#87  
 1,2-Dichlorobenzene  
 Concen: 22.367 ug/l  
 RT: 13.65 min Scan# 3694  
 Delta R.T. -0.00 min  
 Lab File: VN051980.D  
 Acq: 24 Oct 2018 11:47

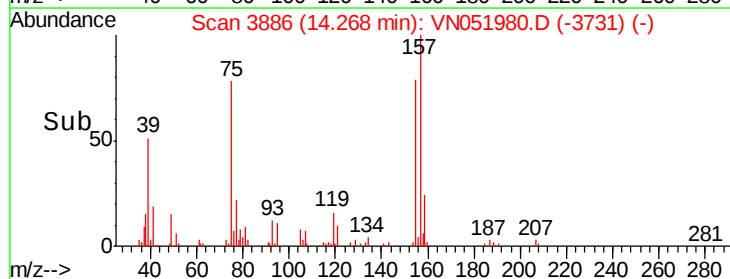
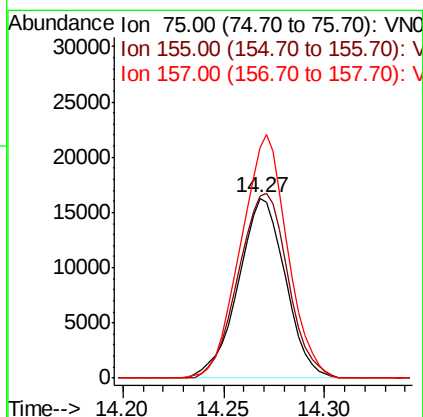
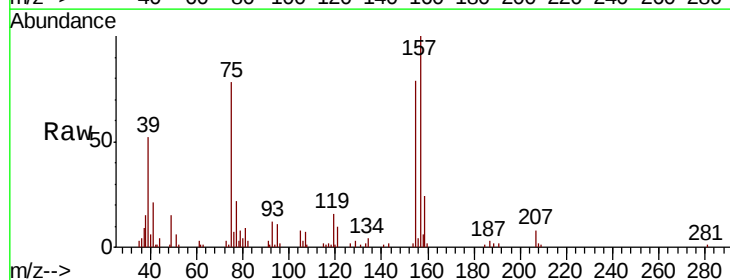
Instrument :  
 MSVOA\_N  
 ClientSampleId :

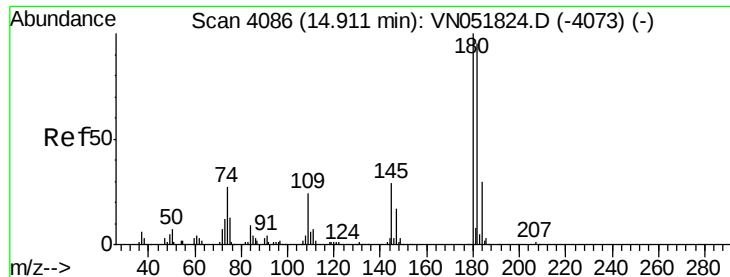
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.8  | 20.8  | 62.2  |
| 148     | 63.6  | 33.2  | 99.6  |



#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 18.175 ug/l  
 RT: 14.27 min Scan# 3886  
 Delta R.T. -0.00 min  
 Lab File: VN051980.D  
 Acq: 24 Oct 2018 11:47

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 155     | 108.4 | 57.0  | 85.6#  |
| 157     | 134.2 | 87.4  | 131.0# |

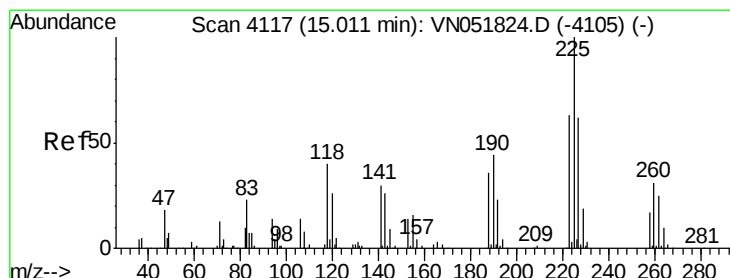
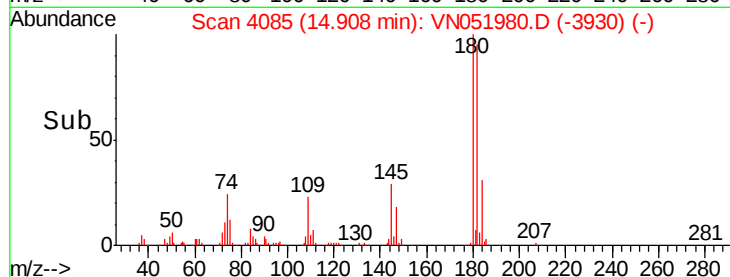
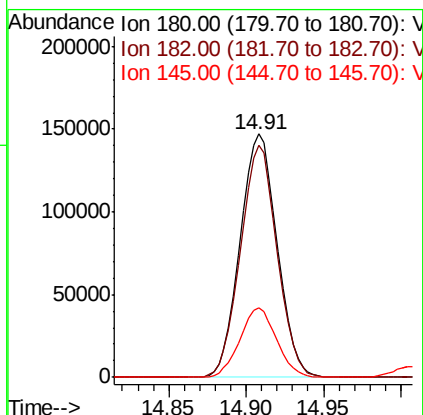
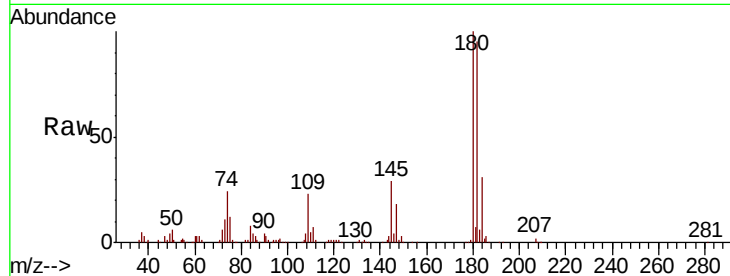




#89  
 1,2,4-Trichlorobenzene  
 Concen: 25.403 ug/l  
 RT: 14.91 min Scan# 4085  
 Delta R.T. -0.00 min  
 Lab File: VN051980.D  
 Acq: 24 Oct 2018 11:47

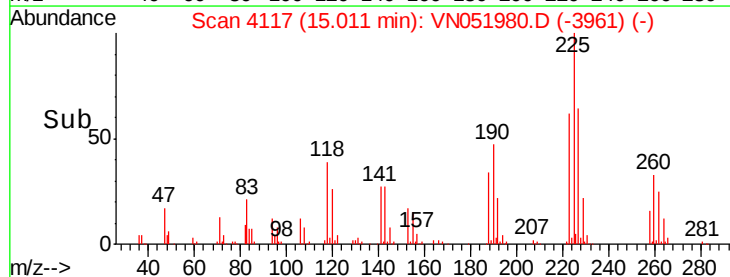
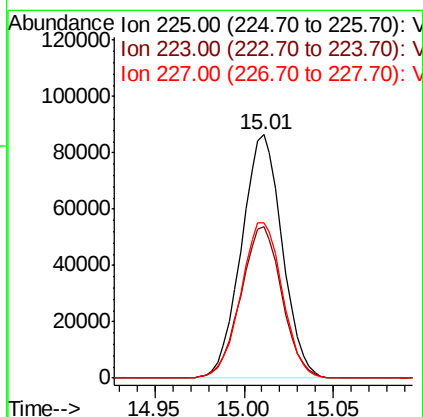
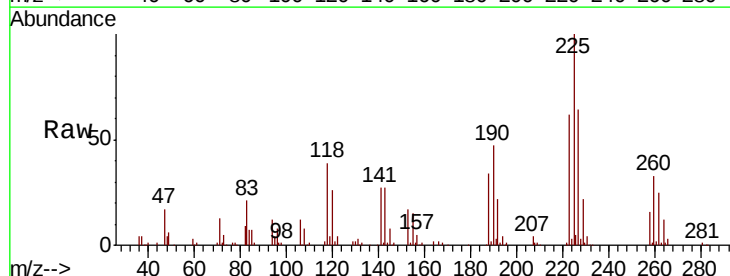
Instrument :  
 MSVOA\_N  
 ClientSampleId :

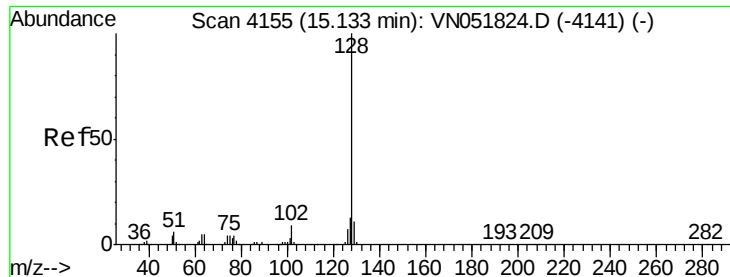
| Tot Ion   | 180  | Resp  | 244870 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 182       | 94.3 | 77.7  | 116.5  |
| 145       | 28.3 | 23.4  | 35.2   |



#90  
 Hexachlorobutadiene  
 Concen: 20.376 ug/l  
 RT: 15.01 min Scan# 4117  
 Delta R.T. 0.00 min  
 Lab File: VN051980.D  
 Acq: 24 Oct 2018 11:47

| Tgt Ion   | 225  | Resp  | 137826 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 223       | 62.9 | 0.0   | 117.0  |
| 227       | 65.2 | 0.0   | 127.0  |





#91

Naphthalene

Concen: 25.038 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051980.D

Acq: 24 Oct 2018 11:47

Instrument :

MSVOA\_N

ClientSampleId :

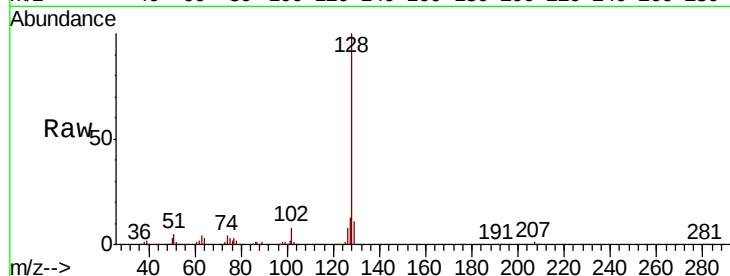
Tot Ion:128 Resp: 473838

Ion Ratio Lower Upper

128 100

127 13.0 10.1 15.1

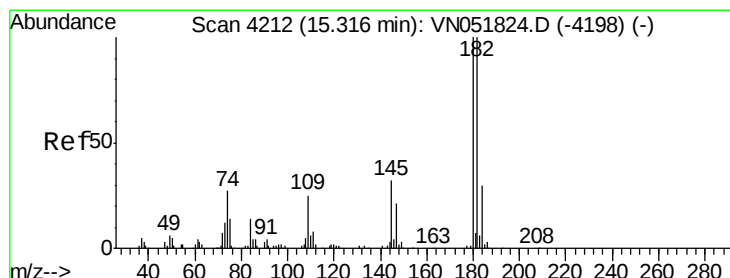
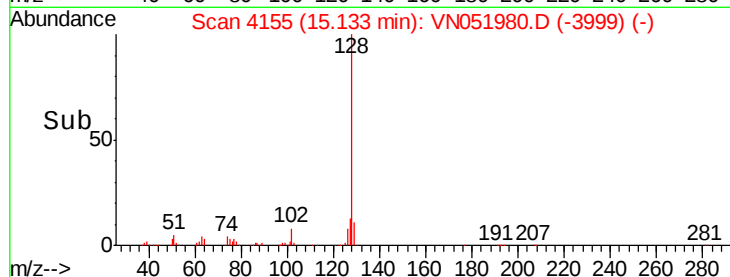
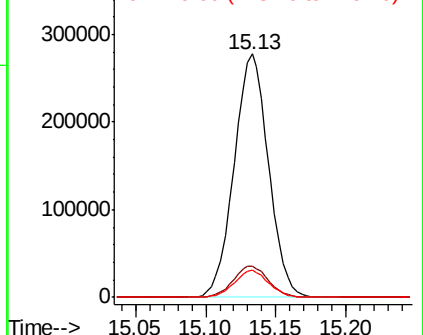
129 11.0 8.4 12.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#92

1,2,3-Trichlorobenzene

Concen: 22.377 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN051980.D

Acq: 24 Oct 2018 11:47

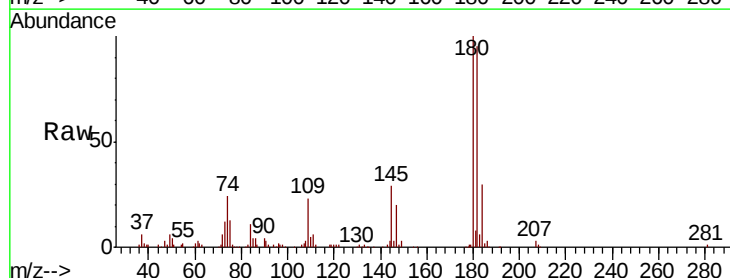
Tgt Ion:180 Resp: 213691

Ion Ratio Lower Upper

180 100

182 95.2 0.0 198.0

145 30.3 0.0 36.8



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

