

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102020\  
 Data File : VN064194.D  
 Acq On : 20 Oct 2020 11:35  
 Operator : JC/MD  
 Sample : VSTDIC150  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 VSTDIC150

Quant Time: Oct 20 11:53:54 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N102020W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Oct 20 11:03:39 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.15  | 128  | 53517    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.55  | 114  | 289678   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.38 | 117  | 266802   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 7.99   | 65    | 124850   | 26.31    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 87.70%  |
| 60) 4-Bromofluorobenzene  | 12.38  | 95    | 145158   | 31.21    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 104.03% |
| 63) Toluene-d8            | 10.06  | 98    | 357849   | 29.57    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 98.57%  |

## Target Compounds

|                               |      |     |         |         | Ovalue     |
|-------------------------------|------|-----|---------|---------|------------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 572716  | 163.815 | ug/l 94    |
| 3) Chloromethane              | 2.04 | 50  | 576926  | 158.957 | ug/l 99    |
| 4) Vinyl Chloride             | 2.16 | 62  | 558280  | 154.621 | ug/l 95    |
| 5) Bromomethane               | 2.51 | 94  | 333786  | 145.899 | ug/l 99    |
| 6) Chloroethane               | 2.66 | 64  | 317319  | 142.038 | ug/l 99    |
| 7) Trichlorofluoromethane     | 2.98 | 101 | 868370  | 150.225 | ug/l 99    |
| 8) Diethyl Ether              | 3.37 | 74  | 295515  | 157.909 | ug/l 97    |
| 9) 1,1,2-Trichlorotrifluoroet | 3.72 | 101 | 447631  | 150.320 | ug/l 96    |
| 10) 1,1-Dichloroethene        | 3.69 | 96  | 443414  | 157.501 | ug/l 98    |
| 11) Methyl Iodide             | 3.91 | 142 | 693234  | 189.665 | ug/l 98    |
| 12) Methyl Acetate            | 4.27 | 43  | 498580  | 149.187 | ug/l 96    |
| 13) Acrolein                  | 3.57 | 56  | 273529  | 806.420 | ug/l # 1   |
| 14) Acrylonitrile             | 4.93 | 53  | 1022459 | 741.538 | ug/l 99    |
| 15) Acetone                   | 3.78 | 58  | 279237  | 717.247 | ug/l 94    |
| 16) Carbon Disulfide          | 4.01 | 76  | 1312676 | 158.185 | ug/l 99    |
| 17) Allyl chloride            | 4.27 | 41  | 816600  | 158.211 | ug/l 97    |
| 18) Methylene Chloride        | 4.50 | 84  | 511314  | 154.858 | ug/l 95    |
| 19) trans-1,2-Dichloroethene  | 4.99 | 96  | 481694  | 151.747 | ug/l 97    |
| 20) Diisopropyl ether         | 5.90 | 45  | 1555765 | 150.030 | ug/l 95    |
| 21) 1,1-Dichloroethane        | 5.80 | 63  | 942374  | 150.714 | ug/l 99    |
| 22) cis-1,2-Dichloroethene    | 6.78 | 96  | 566699  | 156.408 | ug/l 99    |
| 23) tert-Butyl Alcohol        | 4.73 | 59  | 450237  | 761.192 | ug/l # 100 |
| 24) Methyl tert-Butyl Ether   | 4.99 | 73  | 1478638 | 157.232 | ug/l 99    |
| 25) Chloroform                | 7.33 | 83  | 966590  | 147.638 | ug/l 97    |
| 26) Cyclohexane               | 7.61 | 56  | 740578  | 160.404 | ug/l # 92  |
| 29) 1,1-Dichloropropene       | 7.75 | 75  | 734880  | 151.521 | ug/l 98    |
| 30) 2-Butanone                | 6.78 | 43  | 1551903 | 675.168 | ug/l 99    |
| 31) 2,2-Dichloropropane       | 6.78 | 77  | 903636  | 154.734 | ug/l 98    |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97  | 926127  | 150.623 | ug/l 100   |
| 33) Carbon Tetrachloride      | 7.74 | 117 | 837891  | 153.962 | ug/l 99    |
| 34) Benzene                   | 8.00 | 78  | 2066806 | 151.364 | ug/l # 89  |
| 35) Methacrylonitrile         | 7.13 | 41  | 352466  | 156.066 | ug/l 94    |
| 36) 1,2-Dichloroethane        | 8.08 | 62  | 821804  | 138.514 | ug/l 100   |
| 37) Trichloroethene           | 8.80 | 130 | 564325  | 155.327 | ug/l 99    |
| 38) Methylcyclohexane         | 9.05 | 83  | 687379  | 164.236 | ug/l 99    |
| 39) 1,2-Dichloropropane       | 9.08 | 63  | 548994  | 148.692 | ug/l 98    |
| 40) Dibromomethane            | 9.17 | 93  | 372265  | 144.911 | ug/l 98    |

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 QLast Update : Tue Oct 20 11:03:39 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 41) Bromodichloromethane       | 9.37  | 83   | 819523   | 151.201  | ug/l   | 100      |
| 42) Vinyl Acetate              | 5.84  | 43   | 7202018  | 736.682  | ug/l   | 100      |
| 43) Ethyl Acetate              | 6.88  | 43   | 668046   | 134.148  | ug/l   | 95       |
| 44) Isopropyl Acetate          | 8.13  | 43   | 1270328  | 151.169  | ug/l   | 98       |
| 45) 1,4-Dioxane                | 9.16  | 88   | 154296   | 2934.776 | ug/l # | 91       |
| 46) Methyl methacrylate        | 9.16  | 41   | 614360   | 148.170  | ug/l   | 98       |
| 47) n-amyl Acetate             | 12.04 | 43   | 1157707  | 154.617  | ug/l   | 99       |
| 48) t-1,3-Dichloropropene      | 10.35 | 75   | 944496   | 160.186  | ug/l   | 95       |
| 49) cis-1,3-Dichloropropene    | 9.81  | 75   | 968044   | 157.984  | ug/l   | 99       |
| 50) 1,1,2-Trichloroethane      | 10.53 | 97   | 507939   | 146.431  | ug/l   | 99       |
| 51) Ethyl methacrylate         | 10.40 | 69   | 812491   | 158.957  | ug/l   | 98       |
| 52) 1,3-Dichloropropane        | 10.68 | 76   | 882967   | 148.578  | ug/l   | 100      |
| 53) Dibromochloromethane       | 10.87 | 129  | 644165   | 159.798  | ug/l   | 99       |
| 54) 1,2-Dibromoethane          | 10.98 | 107  | 552599   | 152.178  | ug/l   | 96       |
| 55) 2-Chloroethyl vinyl ether  | 9.66  | 63   | 2040652  | 743.783  | ug/l   | 100      |
| 56) Bromoform                  | 12.10 | 173  | 469329   | 166.199  | ug/l   | 98       |
| 58) 4-Methyl-2-Pentanone       | 9.95  | 43   | 3382459  | 697.427  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.72 | 43   | 2526323  | 696.827  | ug/l   | 99       |
| 61) Tetrachloroethene          | 10.60 | 164  | 521722   | 159.332  | ug/l   | 97       |
| 62) Toluene                    | 10.13 | 91   | 2283728  | 154.520  | ug/l   | 100      |
| 64) Chlorobenzene              | 11.41 | 112  | 1433542  | 158.907  | ug/l   | 99       |
| 65) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 552095   | 157.011  | ug/l   | 99       |
| 66) Ethyl Benzene              | 11.48 | 91   | 2619414  | 159.242  | ug/l   | 98       |
| 67) m/p-Xylenes                | 11.59 | 106  | 1985941  | 326.516  | ug/l   | 96       |
| 68) o-Xylene                   | 11.92 | 106  | 952289   | 163.655  | ug/l   | 94       |
| 69) Styrene                    | 11.94 | 104  | 1648996  | 165.979  | ug/l   | 99       |
| 70) Isopropylbenzene           | 12.22 | 105  | 2519165  | 162.511  | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 695066   | 146.106  | ug/l   | 97       |
| 72) 1,2,3-Trichloropropane     | 12.53 | 75   | 1043154  | 219.563  | ug/l   | 49       |
| 73) Bromobenzene               | 12.50 | 156  | 622591   | 158.589  | ug/l   | 98       |
| 74) n-propylbenzene            | 12.57 | 91   | 2932385  | 162.583  | ug/l   | 98       |
| 75) 2-Chlorotoluene            | 12.65 | 91   | 1808451  | 164.226  | ug/l   | 98       |
| 76) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 2183430  | 166.842  | ug/l   | 99       |
| 77) t-1,4-Dichloro-2-butene    | 12.27 | 75   | 299319   | 168.795  | ug/l   | 96       |
| 78) 4-Chlorotoluene            | 12.75 | 91   | 1895958  | 163.337  | ug/l   | 99       |
| 79) tert-butylbenzene          | 12.97 | 119  | 1786684  | 169.185  | ug/l   | 97       |
| 80) 1,2,4-Trimethylbenzene     | 13.01 | 105  | 2192412  | 166.618  | ug/l   | 98       |
| 81) sec-Butylbenzene           | 13.14 | 105  | 2312264  | 167.029  | ug/l   | 99       |
| 82) p-Isopropyltoluene         | 13.26 | 119  | 2172281  | 172.066  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene        | 13.26 | 146  | 1131551  | 163.494  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene        | 13.34 | 146  | 1145343  | 165.358  | ug/l   | 98       |
| 85) n-Butylbenzene             | 13.59 | 91   | 1939185  | 175.770  | ug/l   | 99       |
| 86) Hexachloroethane           | 13.85 | 117  | 378010   | 173.848  | ug/l   | 95       |
| 87) 1,2-Dichlorobenzene        | 13.63 | 146  | 1098200  | 162.860  | ug/l   | 98       |
| 88) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 177687   | 155.669  | ug/l   | 98       |
| 89) 1,2,4-Trichlorobenzene     | 14.88 | 180  | 680388   | 189.042  | ug/l   | 97       |
| 90) Hexachlorobutadiene        | 14.98 | 225  | 318441   | 171.009  | ug/l   | 99       |
| 91) Naphthalene                | 15.10 | 128  | 2064382  | 190.518  | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene     | 15.28 | 180  | 655757   | 189.638  | ug/l   | 100      |

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ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
VSTDICC150

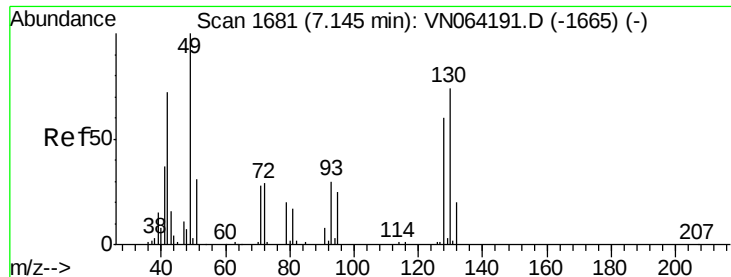
Quant Time: Oct 20 11:53:54 2020  
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| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

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





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.15 min Scan# 1683

Delta R.T. 0.01 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

Instrument :

BNA\_N

ClientSampleId :

VSTDIC150

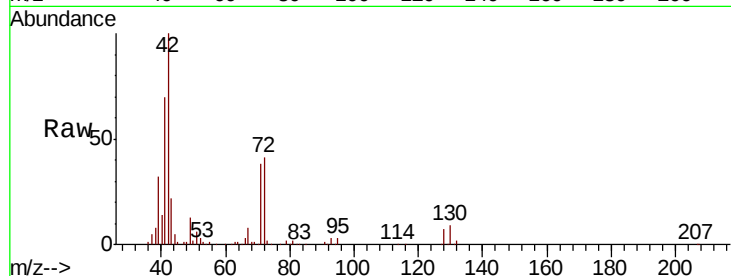
Tot Ion:128 Resp: 53517

Ion Ratio Lower Upper

128 100

49 177.0 0.0 433.3

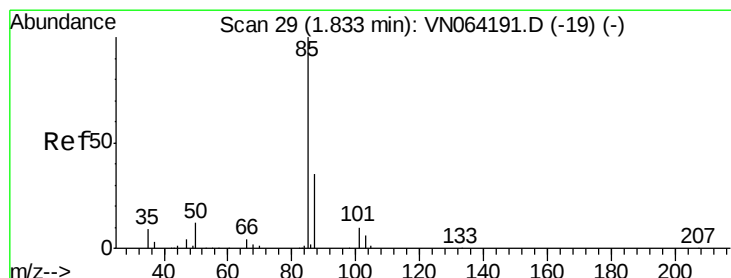
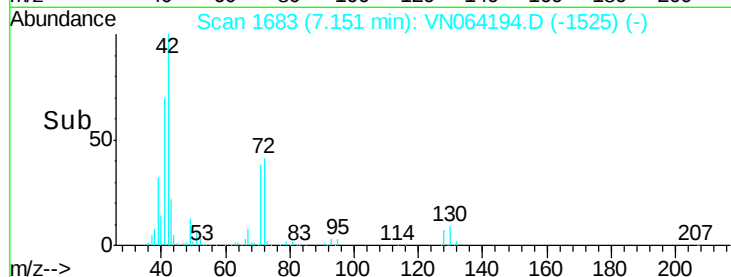
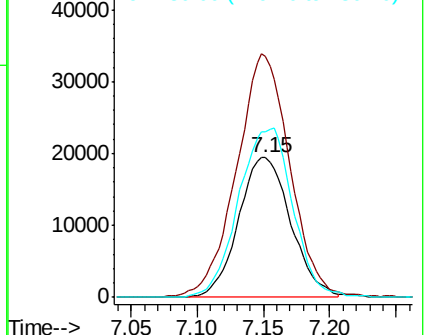
130 125.3 0.0 322.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 163.815 ug/l

RT: 1.83 min Scan# 28

Delta R.T. -0.00 min

Lab File: VN064194.D

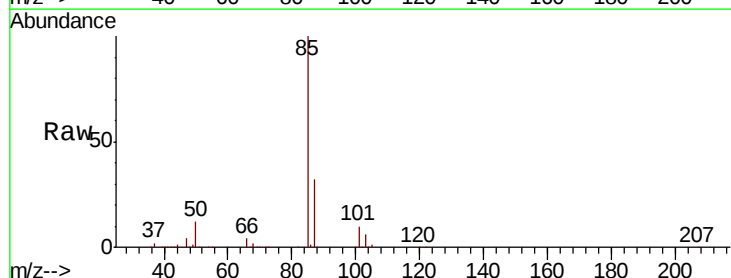
Acq: 20 Oct 2020 11:35

Tgt Ion: 85 Resp: 572716

Ion Ratio Lower Upper

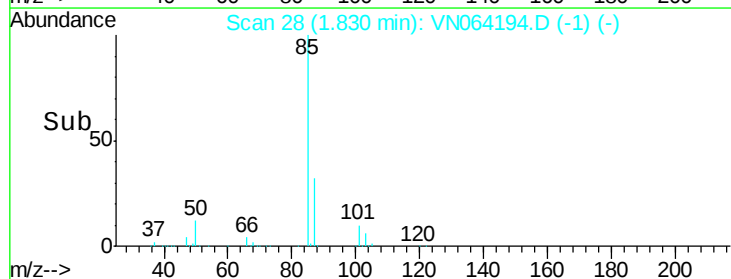
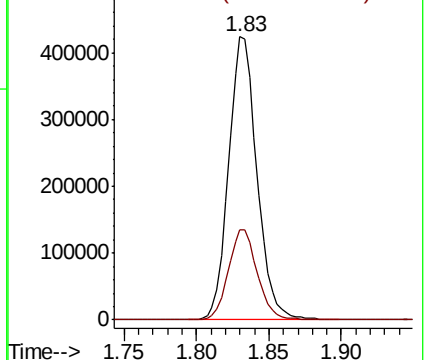
85 100

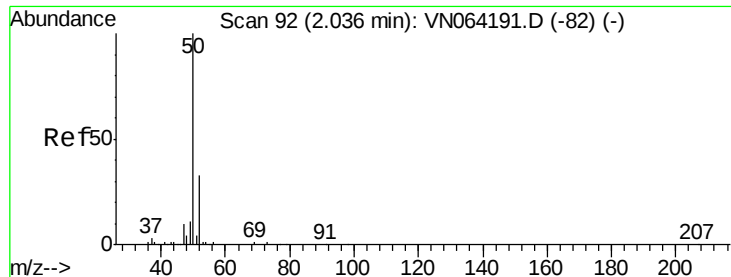
87 31.9 17.8 53.3



Abundance Ion 85.00 (84.70 to 85.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#3

Chloromethane

Concen: 158.957 ug/l

RT: 2.04 min Scan# 92

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

Instrument :

BNA\_N

ClientSampleId :

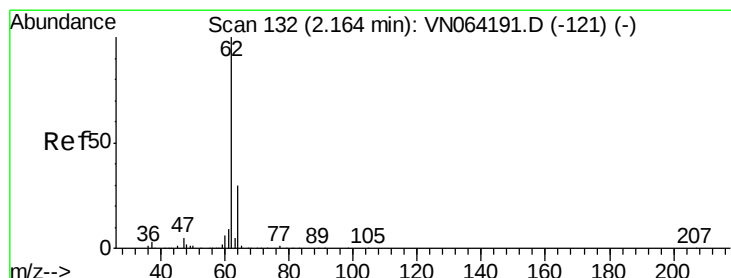
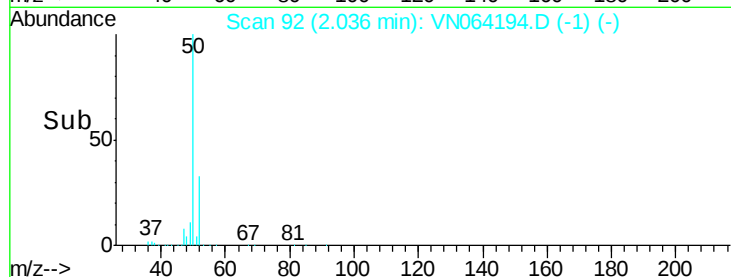
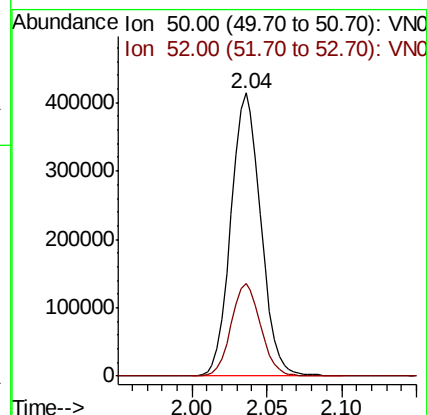
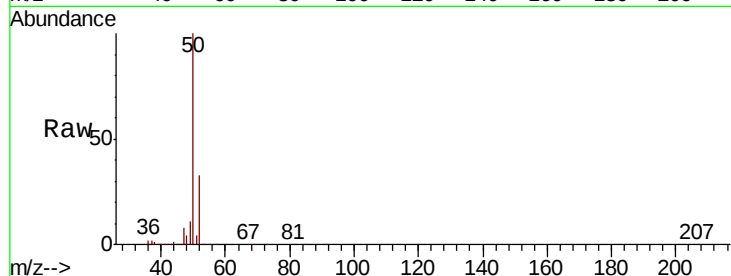
VSTDIC150

Tot Ion: 50 Resp: 576926

Ion Ratio Lower Upper

50 100

52 32.9 26.6 40.0



#4

Vinyl Chloride

Concen: 154.621 ug/l

RT: 2.16 min Scan# 132

Delta R.T. 0.00 min

Lab File: VN064194.D

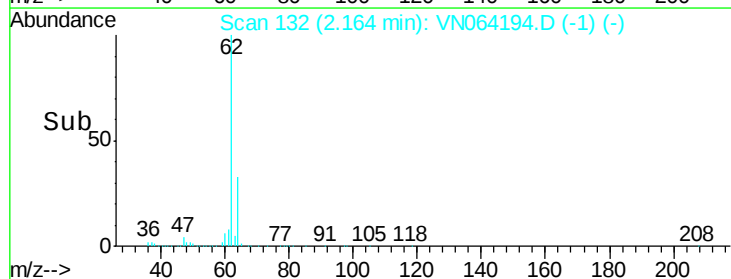
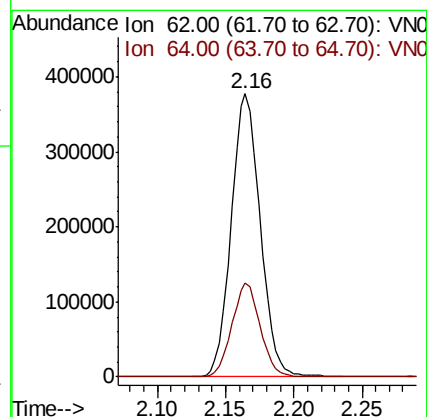
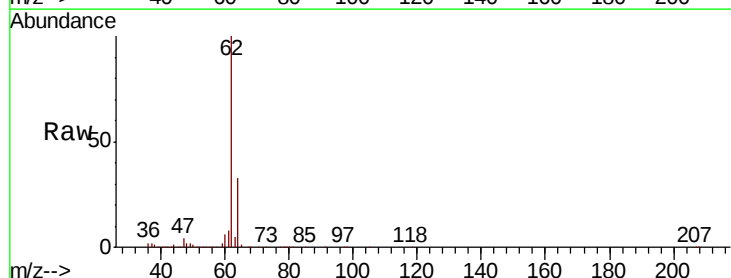
Acq: 20 Oct 2020 11:35

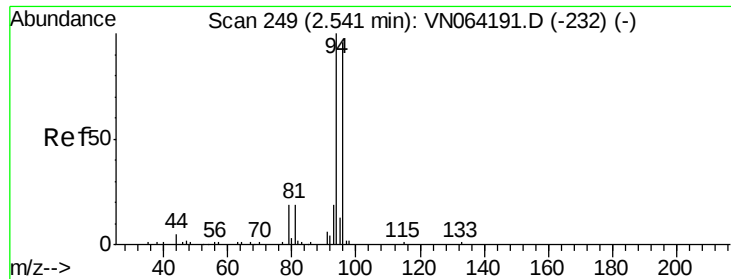
Tgt Ion: 62 Resp: 558280

Ion Ratio Lower Upper

62 100

64 33.1 24.4 36.6





#5

Bromomethane

Concen: 145.899 ug/l

RT: 2.51 min Scan# 241

Delta R.T. -0.03 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

Instrument :

BNA\_N

ClientSampleId :

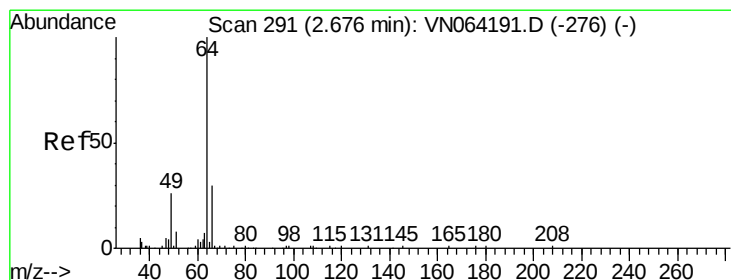
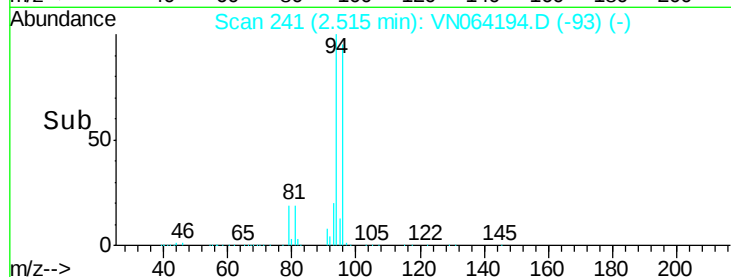
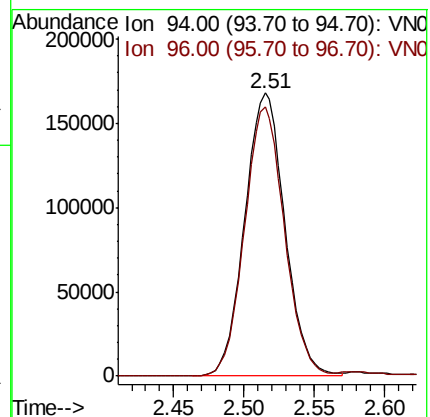
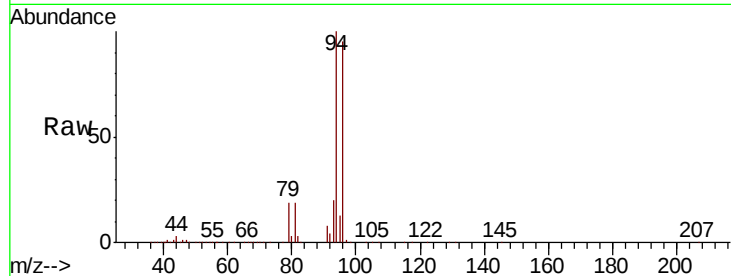
VSTDIC150

Tot Ion: 94 Resp: 333786

Ion Ratio Lower Upper

94 100

96 94.9 76.6 115.0



#6

Chloroethane

Concen: 142.038 ug/l

RT: 2.66 min Scan# 287

Delta R.T. -0.01 min

Lab File: VN064194.D

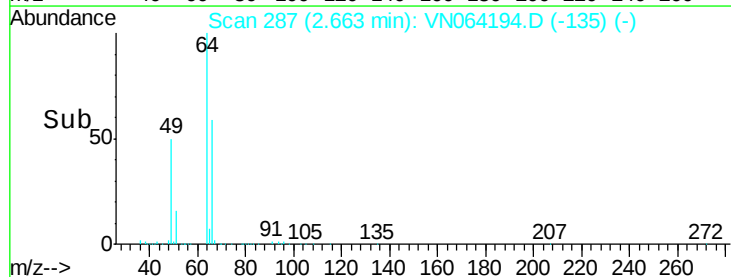
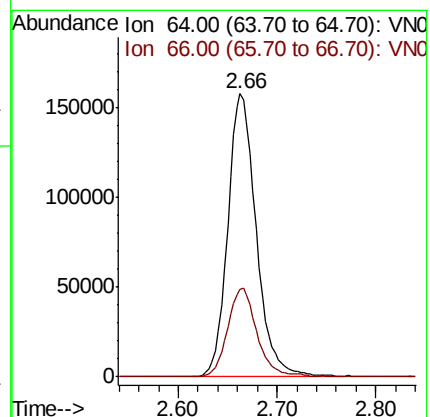
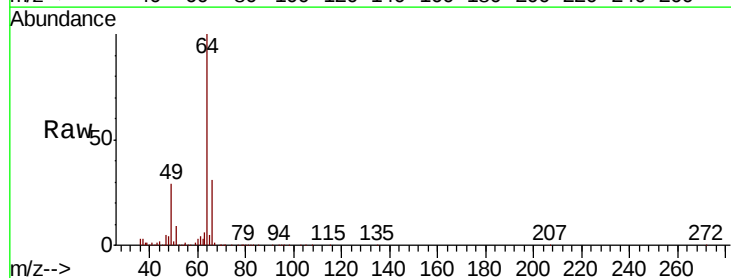
Acq: 20 Oct 2020 11:35

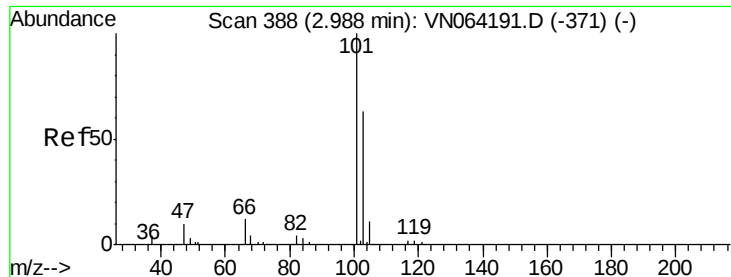
Tgt Ion: 64 Resp: 317319

Ion Ratio Lower Upper

64 100

66 30.9 24.3 36.5



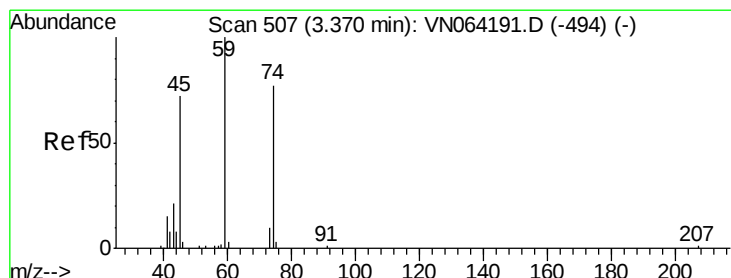
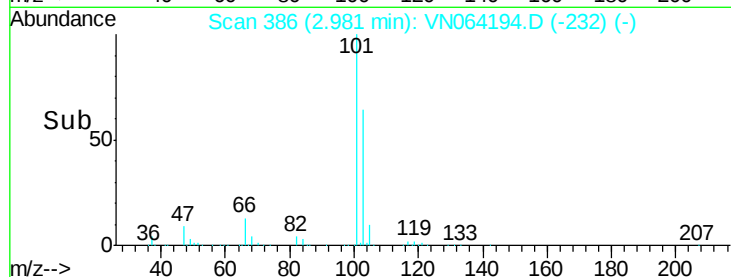
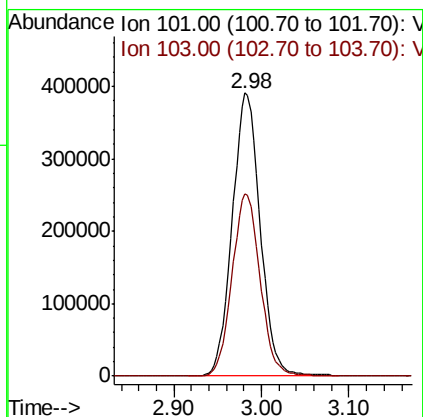
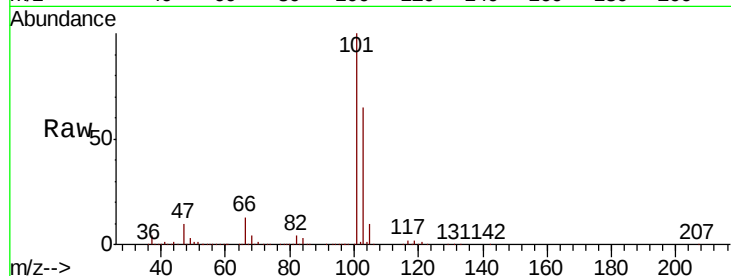


#7

Trichlorofluoromethane  
 Concen: 150.225 ug/l  
 RT: 2.98 min Scan# 386  
 Delta R.T. -0.01 min  
 Lab File: VN064194.D  
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Instrument :  
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 VSTDIC150

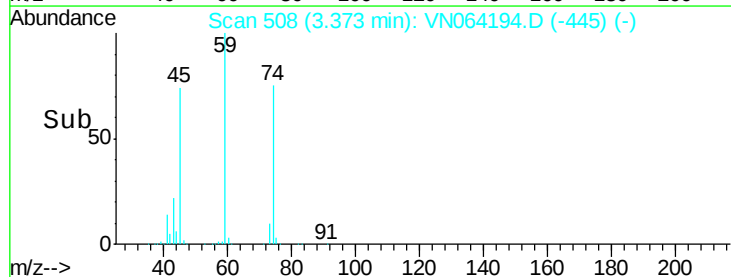
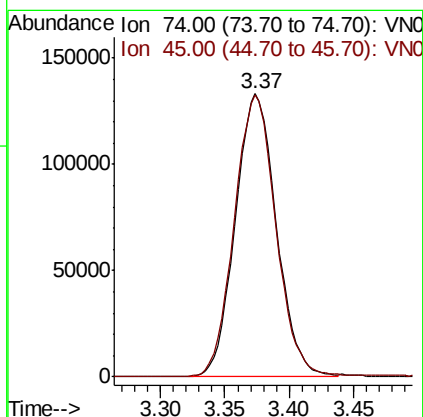
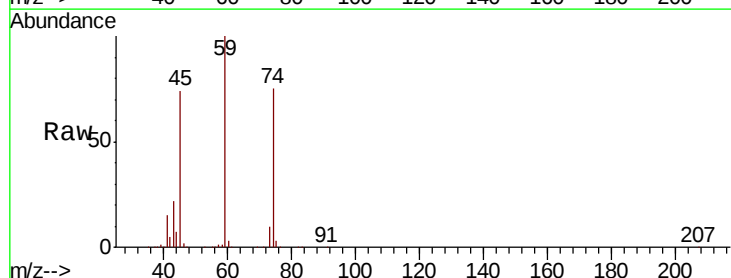
Tot Ion:101 Resp: 868370  
 Ion Ratio Lower Upper  
 101 100  
 103 64.5 50.7 76.1

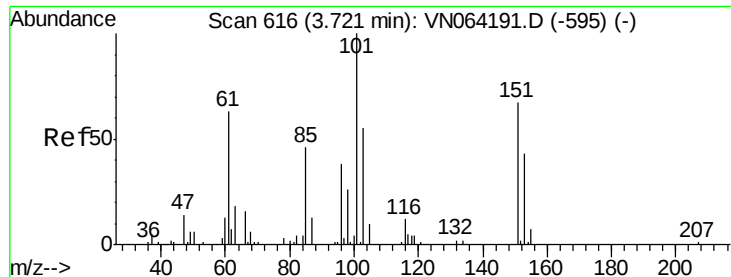


#8

Diethyl Ether  
 Concen: 157.909 ug/l  
 RT: 3.37 min Scan# 508  
 Delta R.T. 0.00 min  
 Lab File: VN064194.D  
 Acq: 20 Oct 2020 11:35

Tgt Ion: 74 Resp: 295515  
 Ion Ratio Lower Upper  
 74 100  
 45 100.3 19.5 175.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 150.320 ug/l

RT: 3.72 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

Instrument :

BNA\_N

ClientSampleId :

VSTDIC150

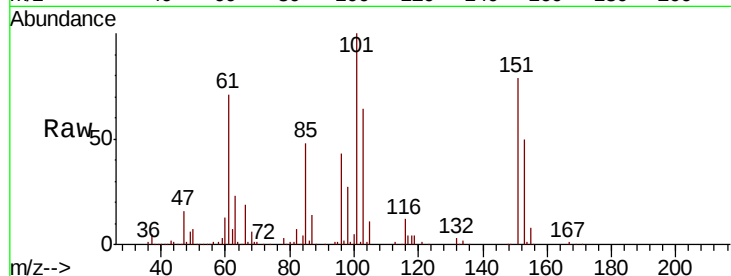
Tot Ion:101 Resp: 447631

Ion Ratio Lower Upper

101 100

85 47.6 0.0 94.0

151 78.2 0.0 146.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VNO

Ion 151.00 (150.70 to 151.70): V

200000

150000

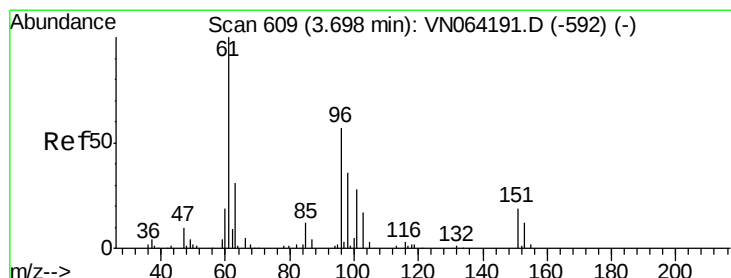
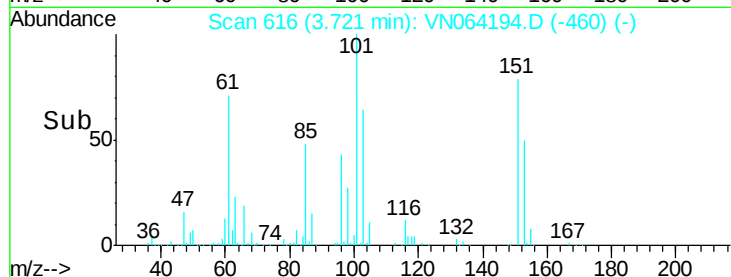
100000

50000

0

3.60 3.70 3.80

Time-->



#10

1,1-Dichloroethene

Concen: 157.501 ug/l

RT: 3.69 min Scan# 608

Delta R.T. -0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

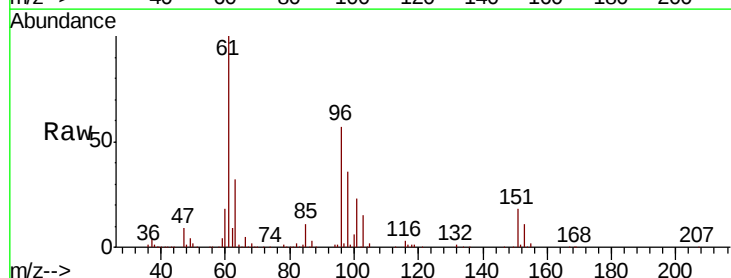
Tgt Ion: 96 Resp: 443414

Ion Ratio Lower Upper

96 100

61 174.1 141.0 211.4

98 61.9 51.4 77.2



Abundance Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO

400000

300000

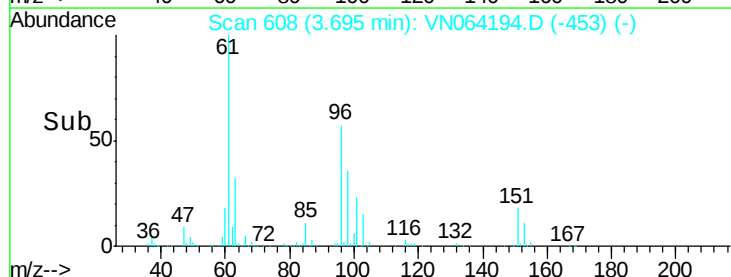
200000

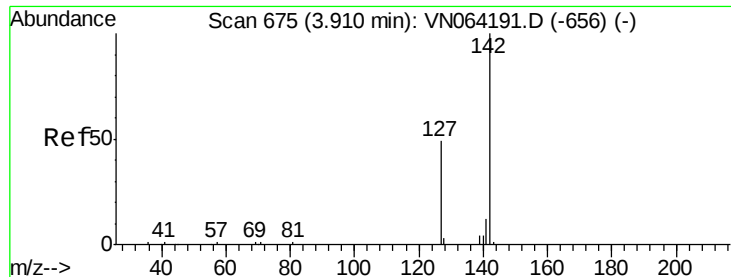
100000

0

3.60 3.70 3.80

Time-->

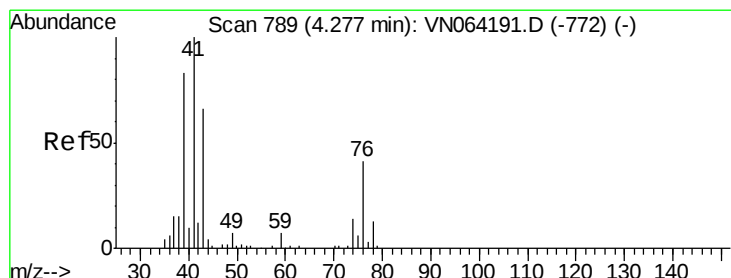
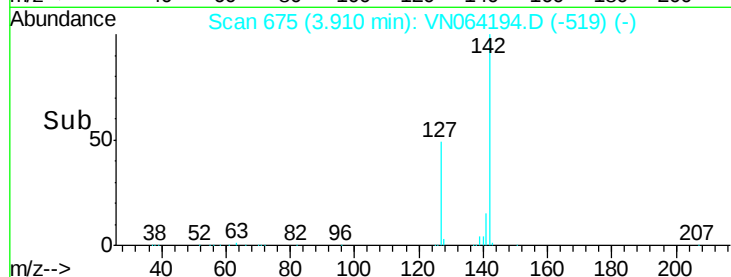
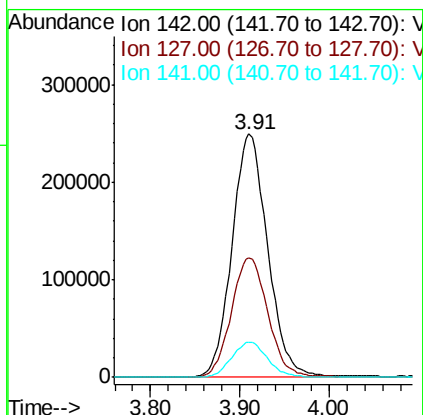
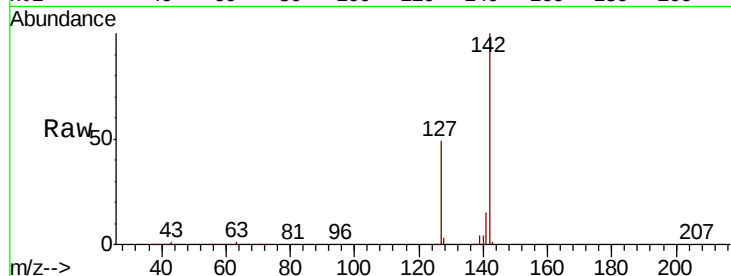




#11  
Methyl Iodide  
Concen: 189.665 ug/l  
RT: 3.91 min Scan# 675  
Delta R.T. 0.00 min  
Lab File: VN064194.D  
Acq: 20 Oct 2020 11:35

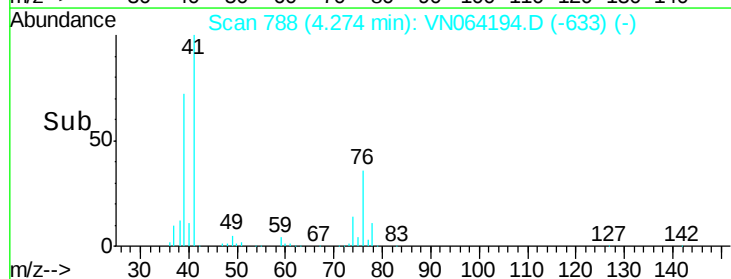
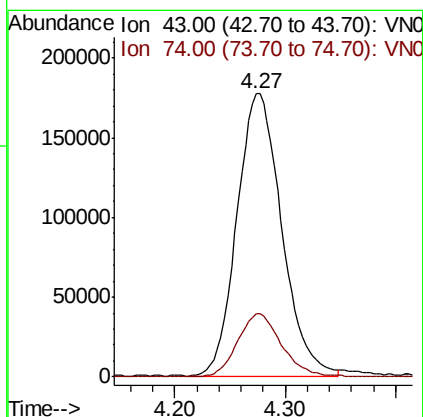
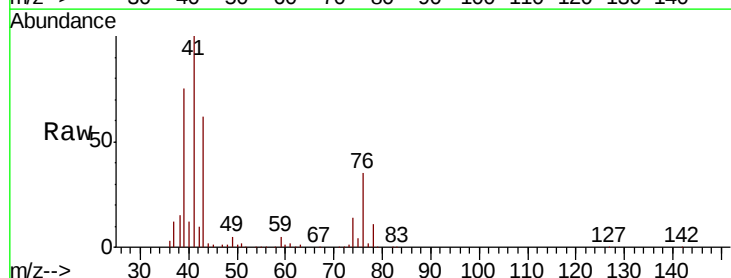
Instrument :  
BNA\_N  
ClientSampleId :  
VSTDIC150

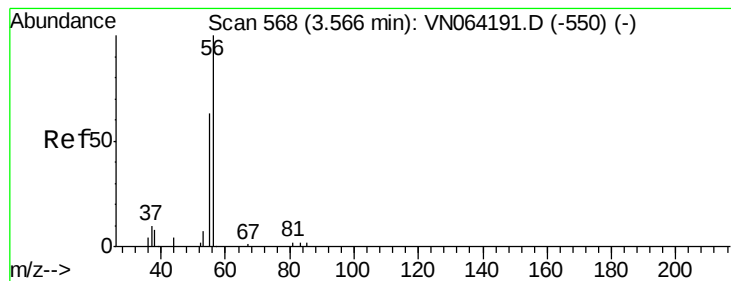
Tot Ion:142 Resp: 693234  
Ion Ratio Lower Upper  
142 100  
127 49.2 24.5 73.5  
141 14.6 6.0 18.1



#12  
Methyl Acetate  
Concen: 149.187 ug/l  
RT: 4.27 min Scan# 788  
Delta R.T. -0.00 min  
Lab File: VN064194.D  
Acq: 20 Oct 2020 11:35

Tgt Ion: 43 Resp: 498580  
Ion Ratio Lower Upper  
43 100  
74 22.2 16.2 24.2





#13

Acrolein

Concen: 806.420 ug/l

RT: 3.57 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

Instrument :

BNA\_N

ClientSampleId :

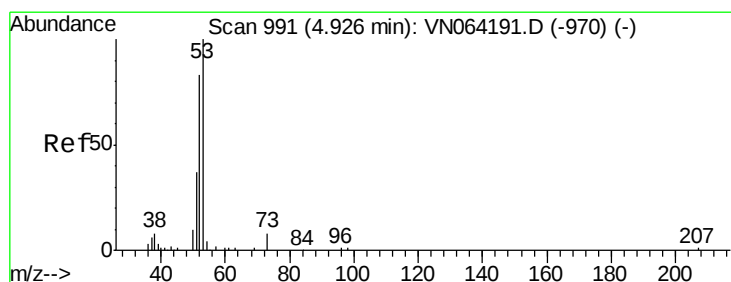
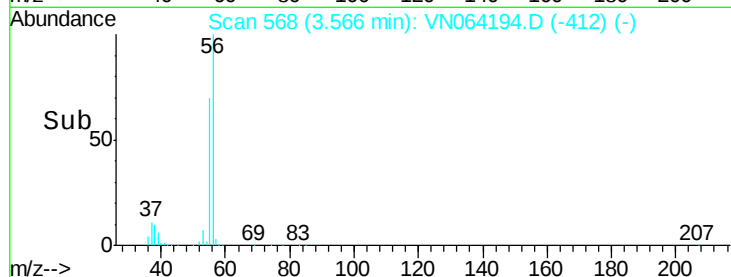
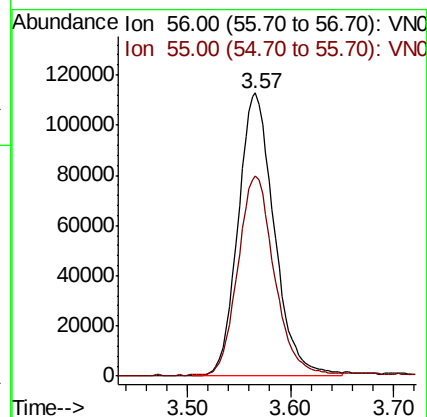
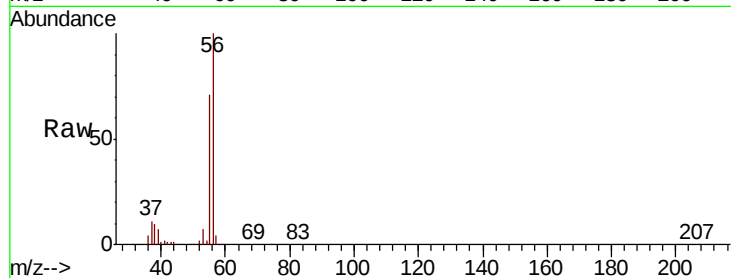
VSTDIC150

Tot Ion: 56 Resp: 273529

Ion Ratio Lower Upper

56 100

55 70.9 0.5 0.7#



#14

Acrylonitrile

Concen: 741.538 ug/l

RT: 4.93 min Scan# 992

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

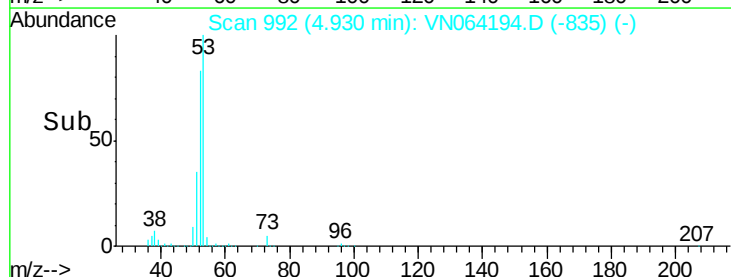
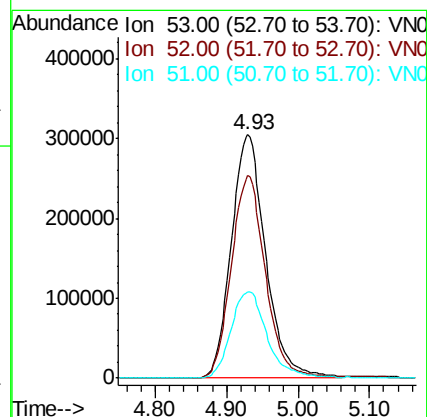
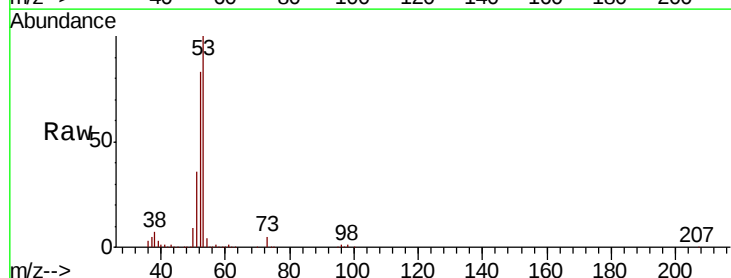
Tgt Ion: 53 Resp: 1022459

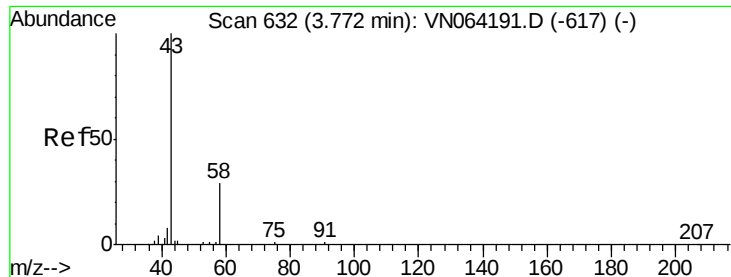
Ion Ratio Lower Upper

53 100

52 82.5 41.3 123.9

51 37.5 18.1 54.1





#15

Acetone

Concen: 717.247 ug/l

RT: 3.78 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

Instrument :

BNA\_N

ClientSampleId :

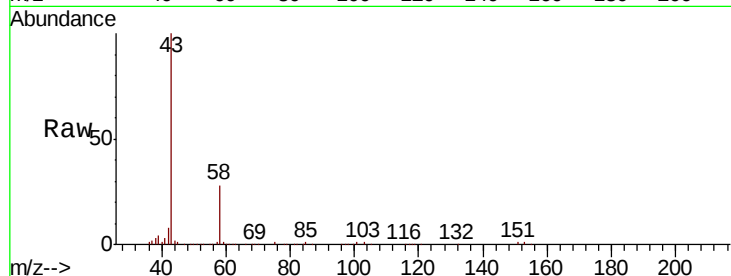
VSTDIC150

Tot Ion: 58 Resp: 279237

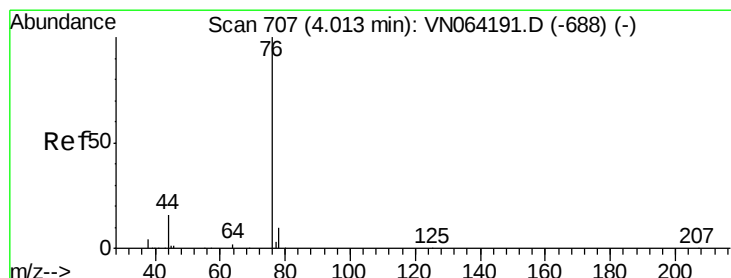
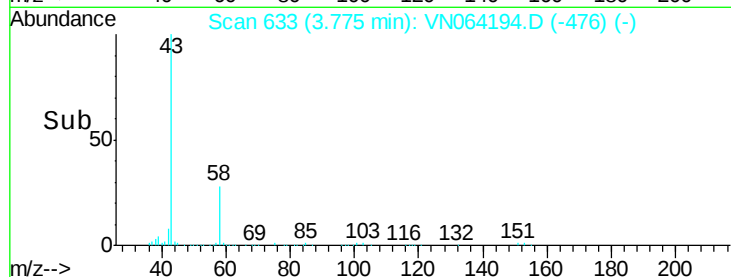
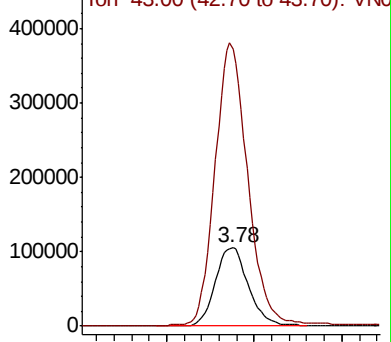
Ion Ratio Lower Upper

58 100

43 352.6 272.1 408.1



Abundance Ion 58.00 (57.70 to 58.70): VN064194.D (-617) (-)



#16

Carbon Disulfide

Concen: 158.185 ug/l

RT: 4.01 min Scan# 706

Delta R.T. -0.00 min

Lab File: VN064194.D

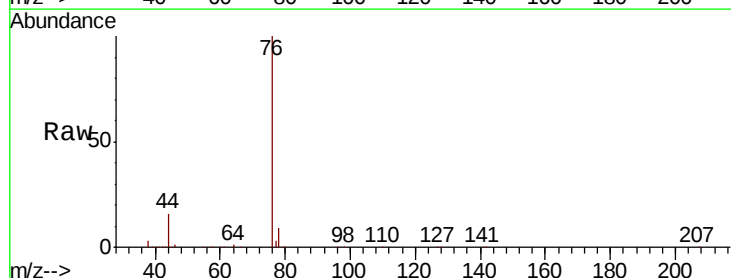
Acq: 20 Oct 2020 11:35

Tgt Ion: 76 Resp: 1312676

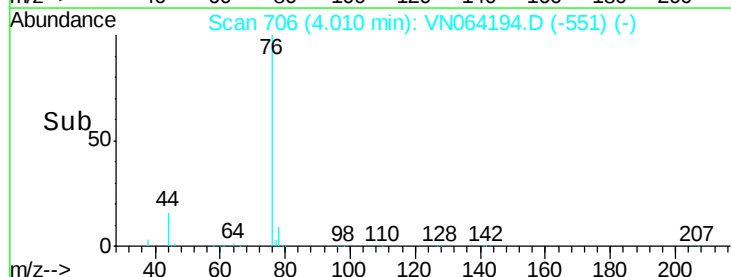
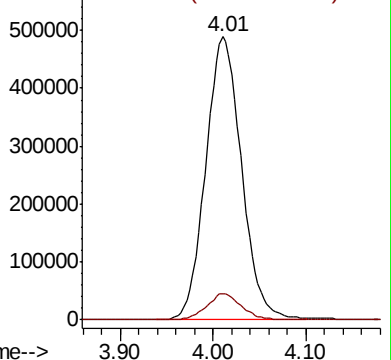
Ion Ratio Lower Upper

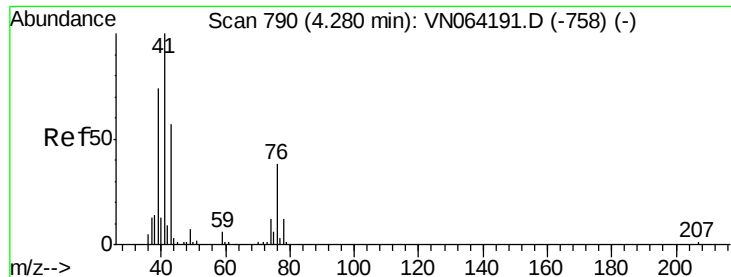
76 100

78 9.4 7.7 11.5



Abundance Ion 76.00 (75.70 to 76.70): VN064194.D (-688) (-)

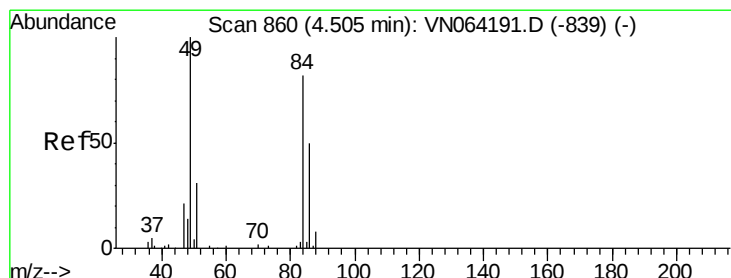
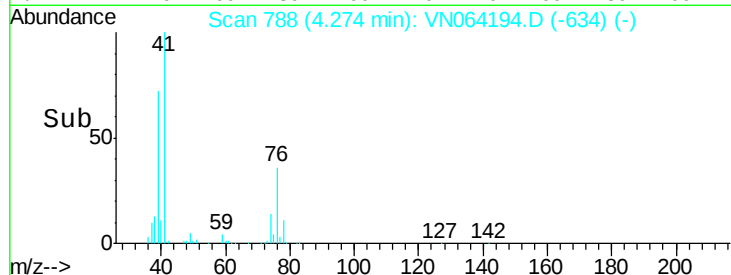
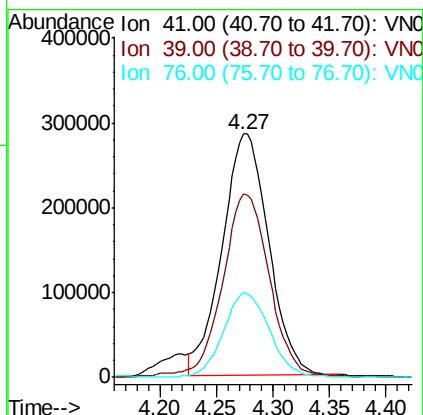
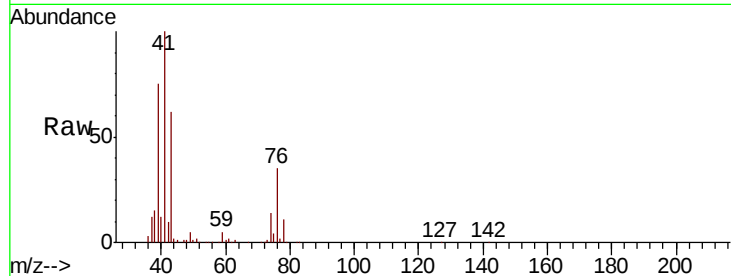




#17  
Allvl chloride  
Concen: 158.211 ug/l  
RT: 4.27 min Scan# 788  
Delta R.T. -0.01 min  
Lab File: VN064194.D  
Acq: 20 Oct 2020 11:35

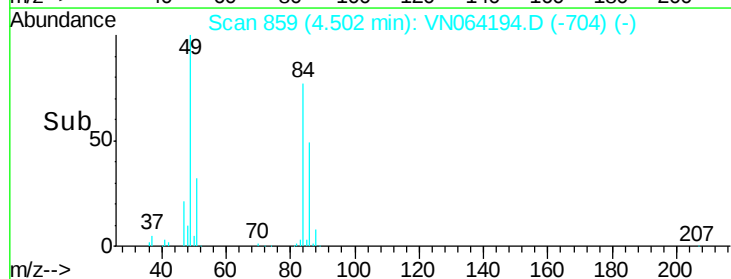
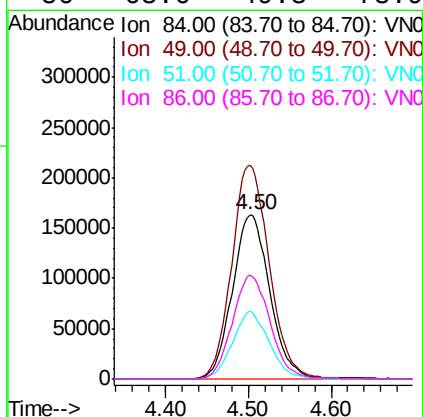
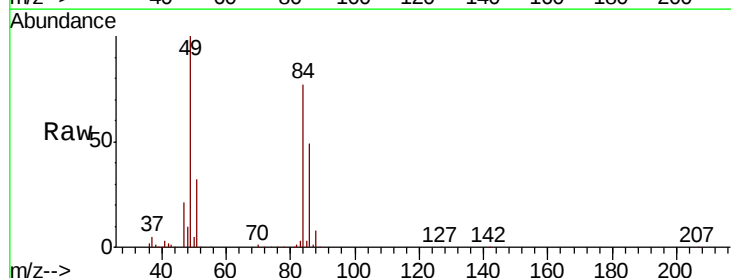
Instrument :  
BNA\_N  
ClientSampleId :  
VSTDIC150

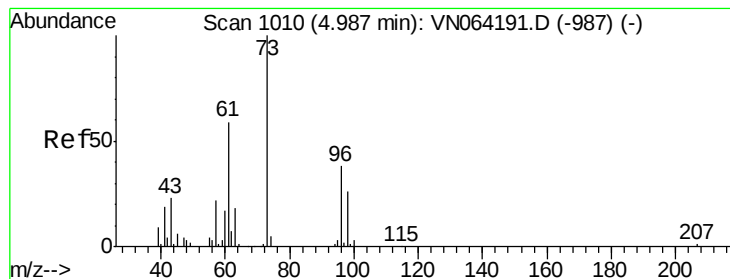
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 41    | Resp: | 816600 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 39       | 75.2  | 36.8  | 110.4  |
| 76       | 34.6  | 18.8  | 56.4   |



#18  
Methylene Chloride  
Concen: 154.858 ug/l  
RT: 4.50 min Scan# 859  
Delta R.T. -0.00 min  
Lab File: VN064194.D  
Acq: 20 Oct 2020 11:35

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 511314 |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 130.0 | 97.6  | 146.4  |
| 51       | 41.2  | 31.1  | 46.7   |
| 86       | 63.6  | 49.3  | 73.9   |





#19

trans-1,2-Dichloroethene

Concen: 151.747 ug/l

RT: 4.99 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

Instrument :

BNA\_N

ClientSampleId :

VSTDIC150

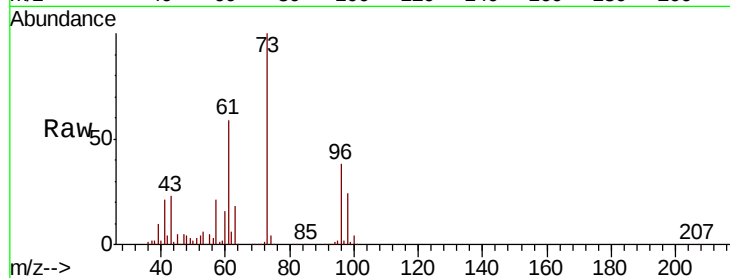
Tot Ion: 96 Resp: 481694

Ion Ratio Lower Upper

96 100

61 154.0 125.5 188.3

98 64.0 54.7 82.1

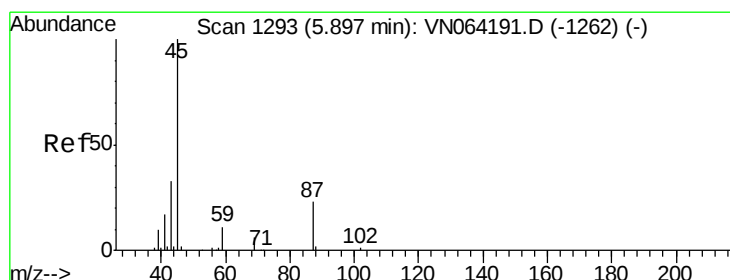
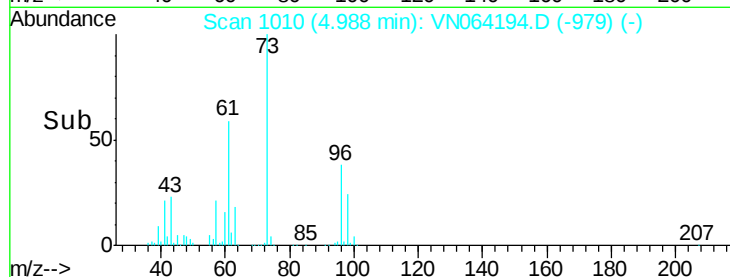
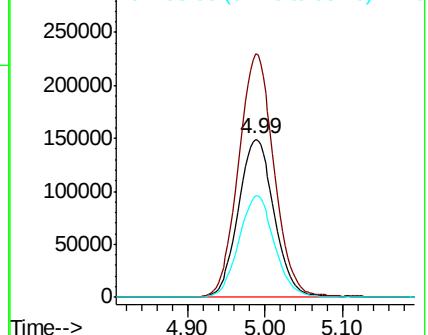


Abundance

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: 150.030 ug/l

RT: 5.90 min Scan# 1294

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

Tgt Ion: 45 Resp: 1555765

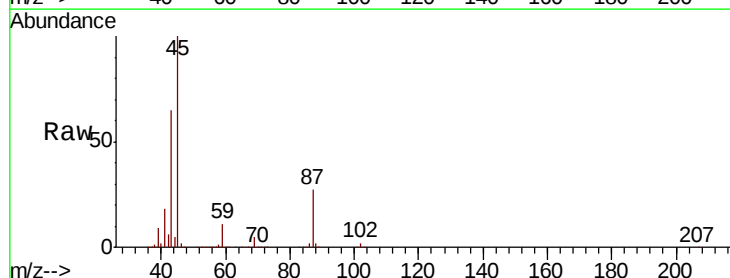
Ion Ratio Lower Upper

45 100

43 64.2 55.1 82.7

87 26.8 19.4 29.2

59 11.2 8.7 13.1



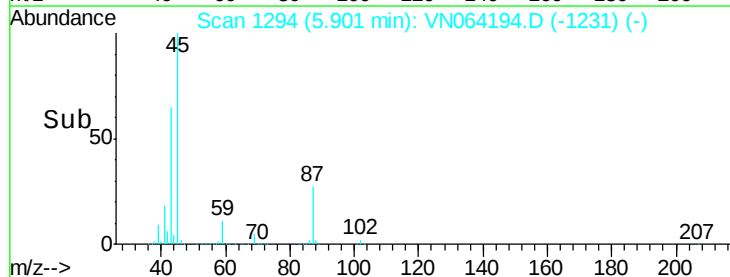
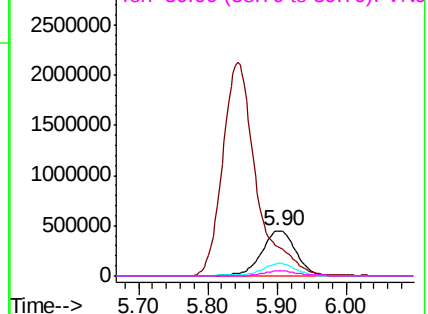
Abundance

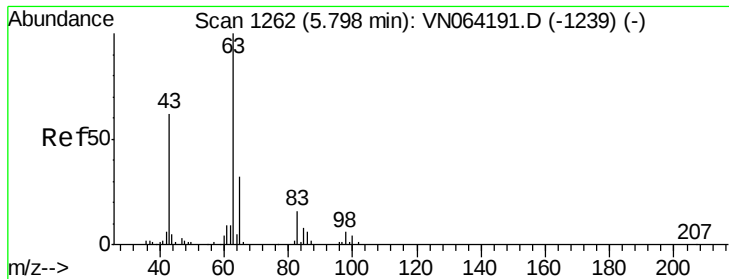
Ion 45.00 (44.70 to 45.70): VN0

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

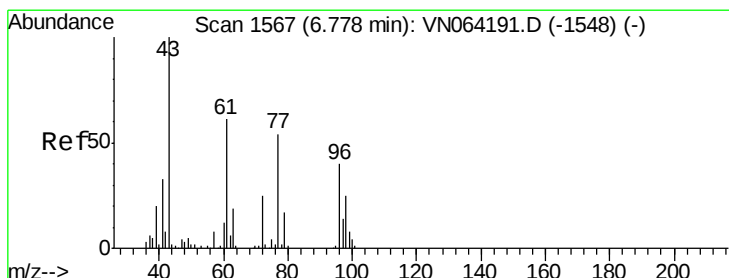
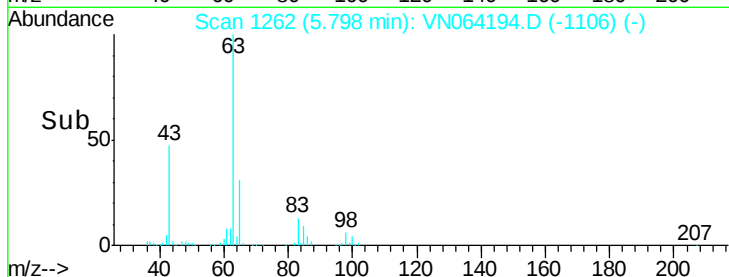
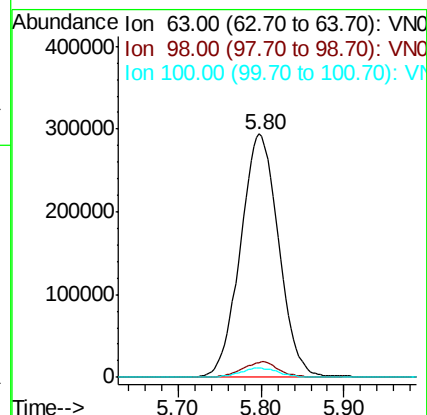
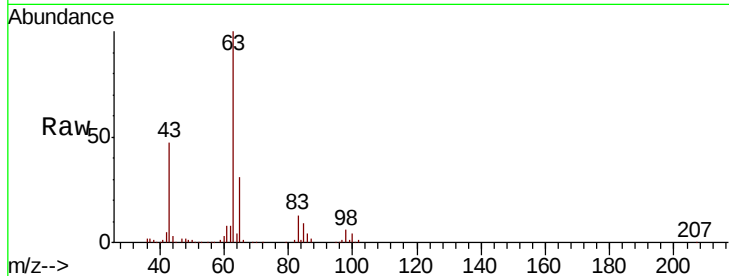




#21  
 1,1-Dichloroethane  
 Concen: 150.714 ug/l  
 RT: 5.80 min Scan# 1262  
 Delta R.T. 0.00 min  
 Lab File: VN064194.D  
 Acq: 20 Oct 2020 11:35

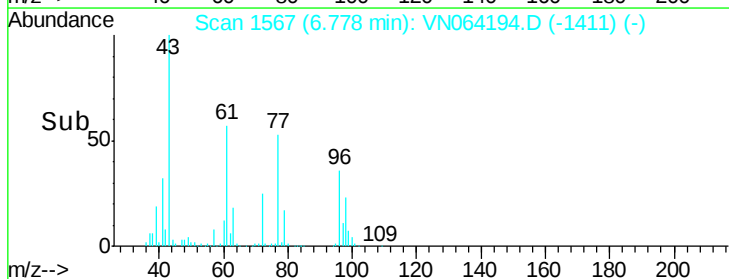
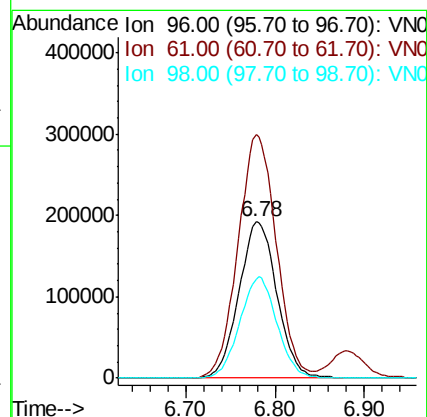
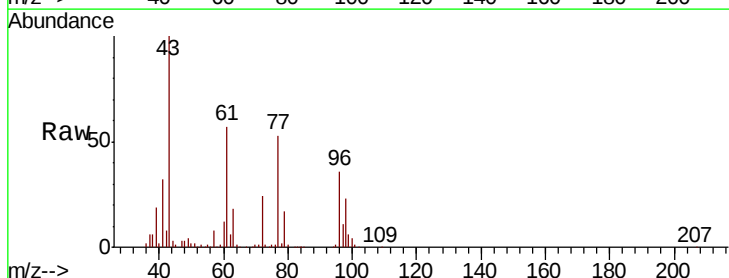
Instrument :  
 BNA\_N  
 ClientSampleId :  
 VSTDIC150

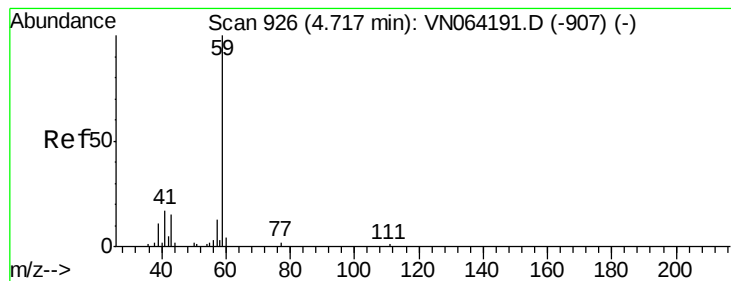
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 98      | 6.0   | 2.9   | 8.7   |
| 100     | 3.7   | 2.1   | 6.3   |



#22  
 cis-1,2-Dichloroethene  
 Concen: 156.408 ug/l  
 RT: 6.78 min Scan# 1567  
 Delta R.T. 0.00 min  
 Lab File: VN064194.D  
 Acq: 20 Oct 2020 11:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 156.5 | 126.2 | 189.4 |
| 98      | 63.4  | 50.2  | 75.4  |





#23

tert-Butyl Alcohol

Concen: 761.192 ug/l

RT: 4.73 min Scan# 931

Delta R.T. 0.02 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

Instrument :

BNA\_N

ClientSampleId :

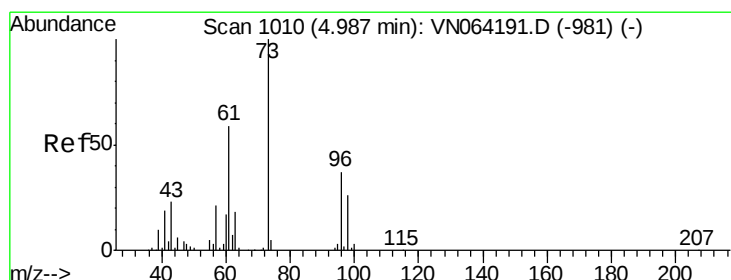
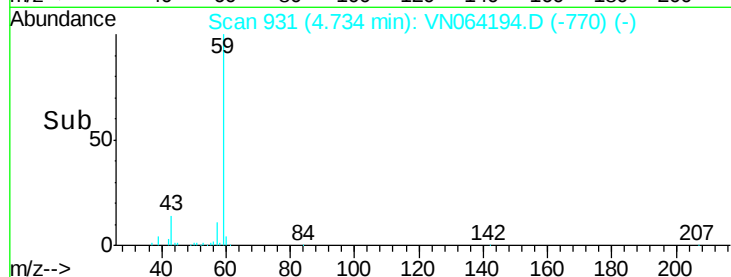
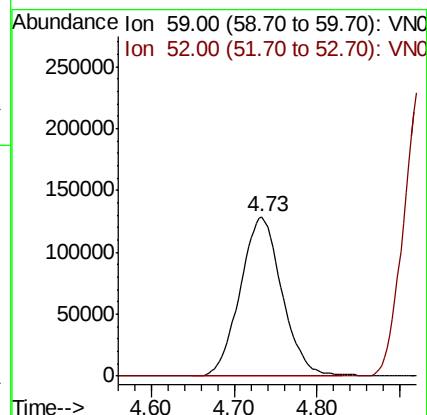
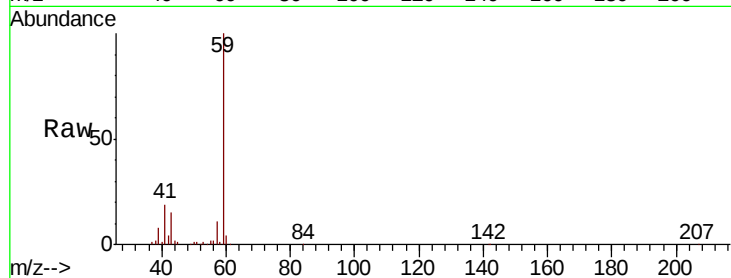
VSTDIC150

Tot Ion: 59 Resp: 450237

Ion Ratio Lower Upper

59 100

52 0.1 0.0 0.0#



#24

Methyl tert-Butyl Ether

Concen: 157.232 ug/l

RT: 4.99 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VN064194.D

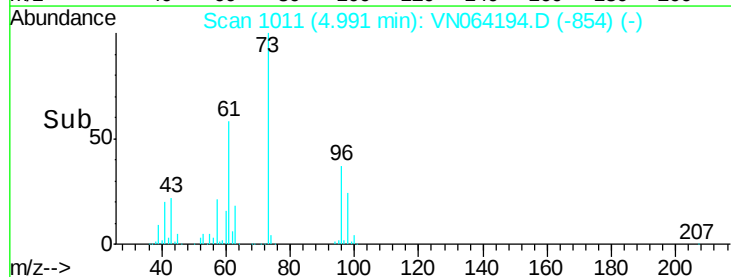
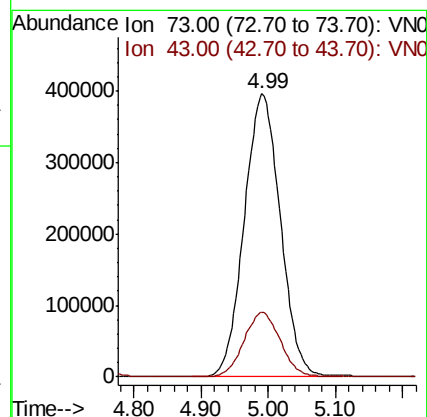
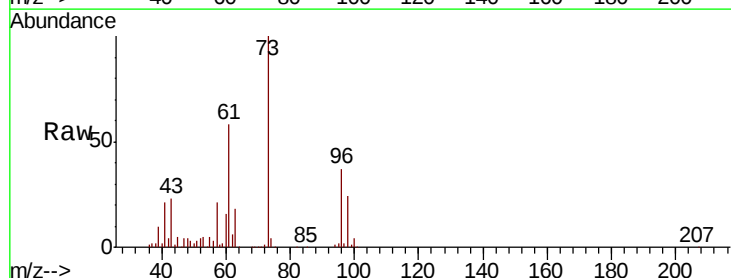
Acq: 20 Oct 2020 11:35

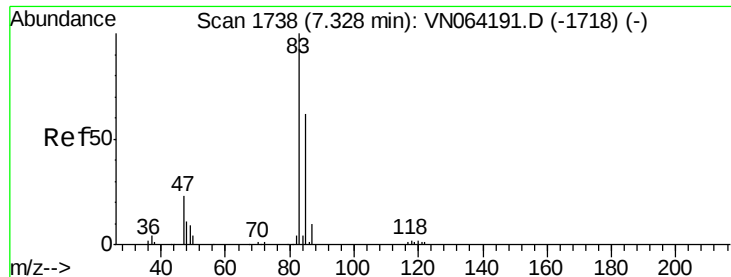
Tgt Ion: 73 Resp: 1478638

Ion Ratio Lower Upper

73 100

43 22.4 18.2 27.2





#25

Chloroform

Concen: 147.638 ug/l

RT: 7.33 min Scan# 1738

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

Instrument :

BNA\_N

ClientSampleId :

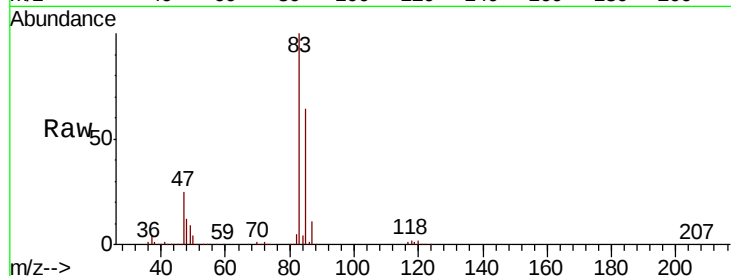
VSTDIC150

Tot Ion: 83 Resp: 966590

Ion Ratio Lower Upper

83 100

85 64.3 49.7 74.5



Abundance Ion 83.00 (82.70 to 83.70): VNO

Ion 85.00 (84.70 to 85.70): VNO

7.33

400000

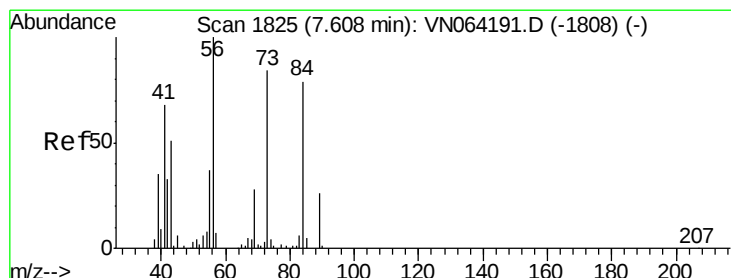
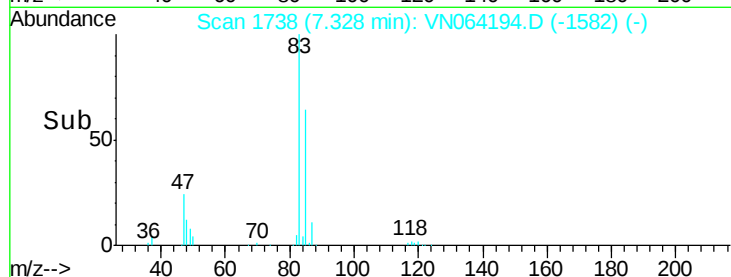
300000

200000

100000

0

Time-->



#26

Cyclohexane

Concen: 160.404 ug/l

RT: 7.61 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

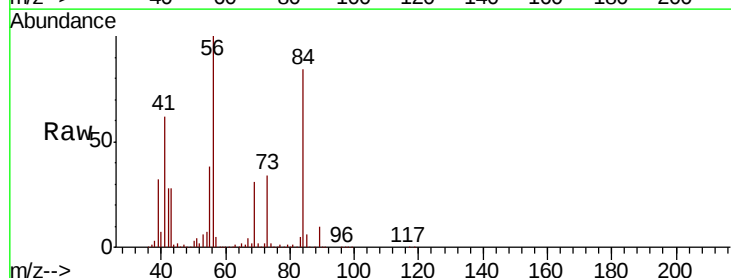
Tgt Ion: 56 Resp: 740578

Ion Ratio Lower Upper

56 100

89 9.9 21.4 32.0#

84 82.6 65.8 98.6



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 89.00 (88.70 to 89.70): VNO

Ion 84.00 (83.70 to 84.70): VNO

500000

400000

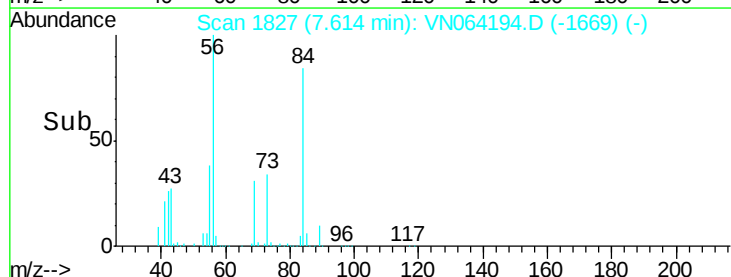
300000

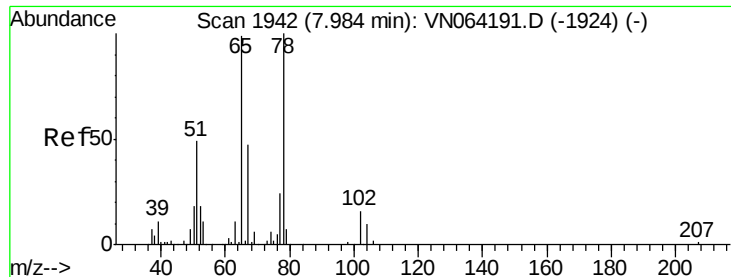
200000

100000

0

Time-->





#27

1,2-Dichloroethane-d4

Concen: 26.307 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

Instrument :

BNA\_N

ClientSampleId :

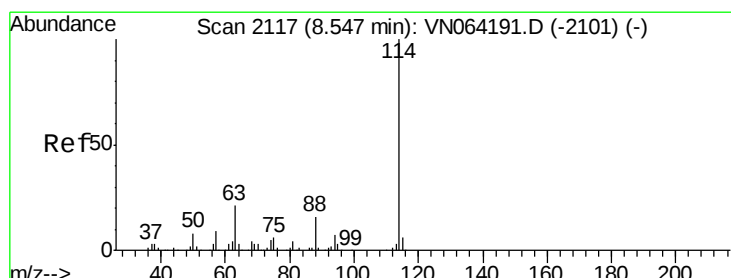
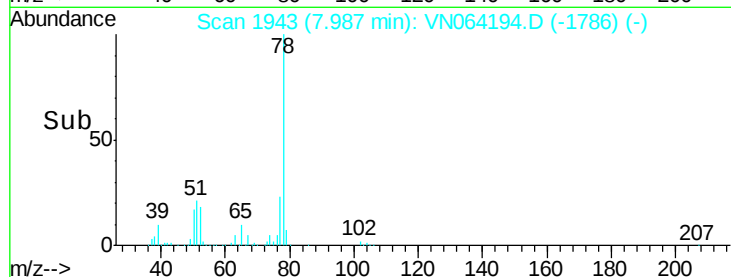
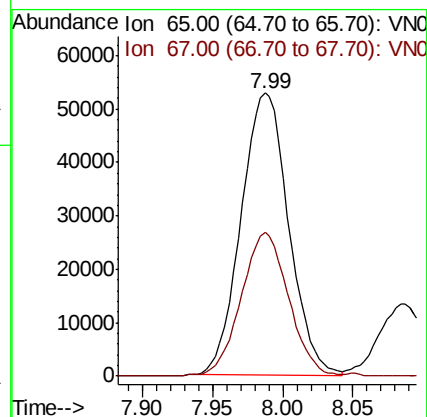
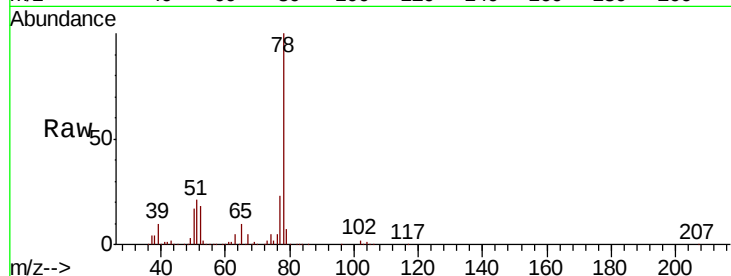
VSTDIC150

Tot Ion: 65 Resp: 124850

Ion Ratio Lower Upper

65 100

67 50.6 39.8 59.6



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

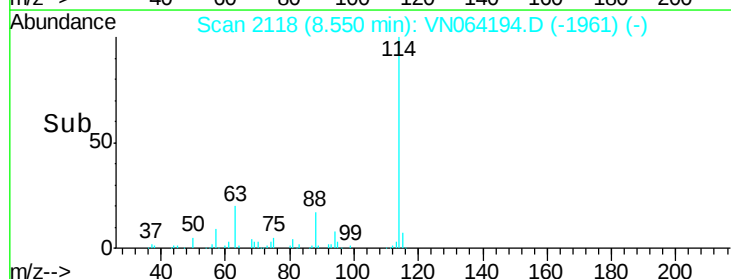
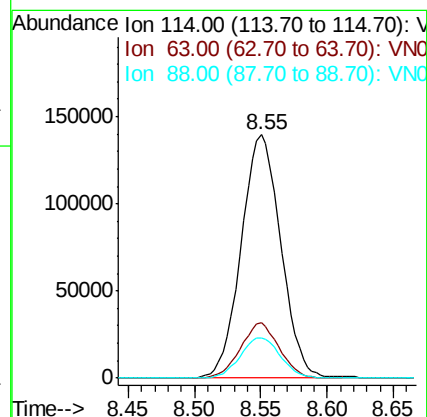
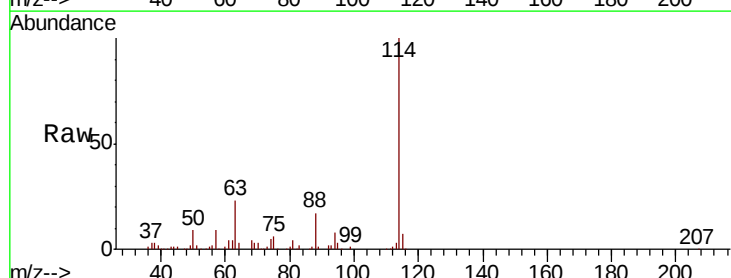
Tgt Ion: 114 Resp: 289678

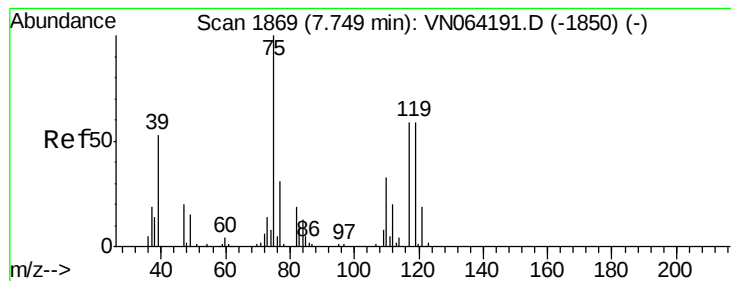
Ion Ratio Lower Upper

114 100

63 22.1 17.0 25.4

88 16.7 13.0 19.4





#29

1,1-Dichloropropene

Concen: 151.521 ug/l

RT: 7.75 min Scan# 1870

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

Instrument :

BNA\_N

ClientSampleId :

VSTDIC150

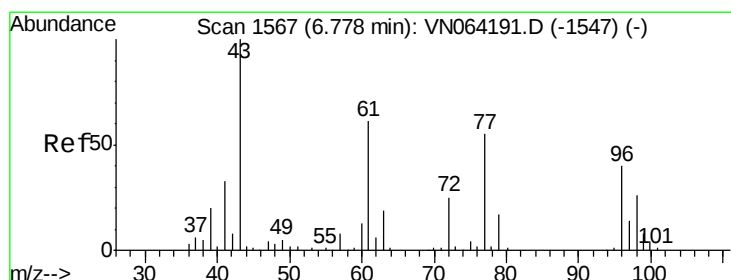
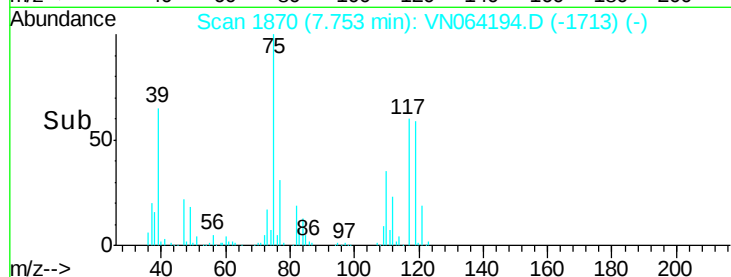
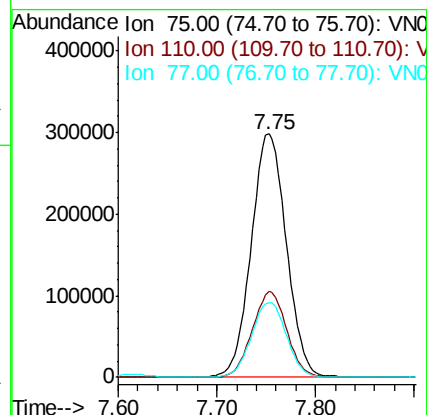
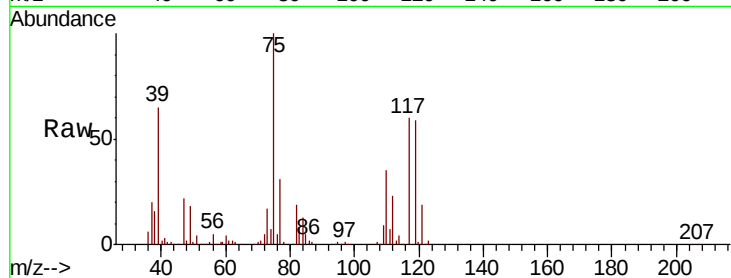
Tot Ion: 75 Resp: 734880

Ion Ratio Lower Upper

75 100

110 34.4 0.0 66.8

77 30.7 0.0 63.6



#30

2-Butanone

Concen: 675.168 ug/l

RT: 6.78 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

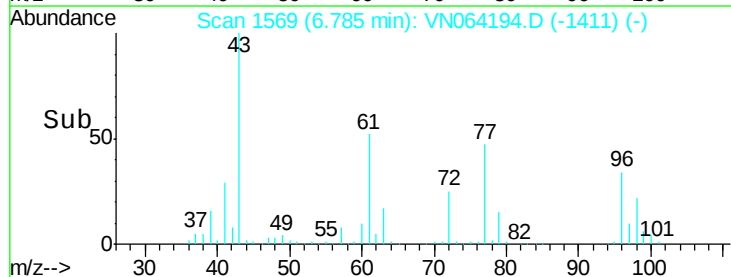
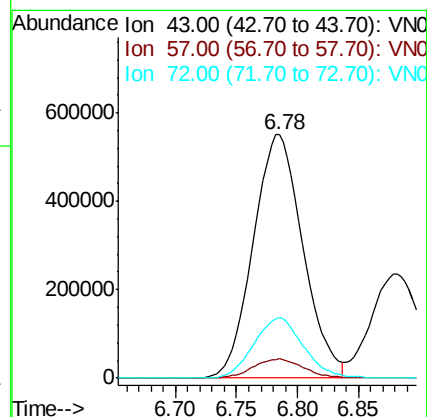
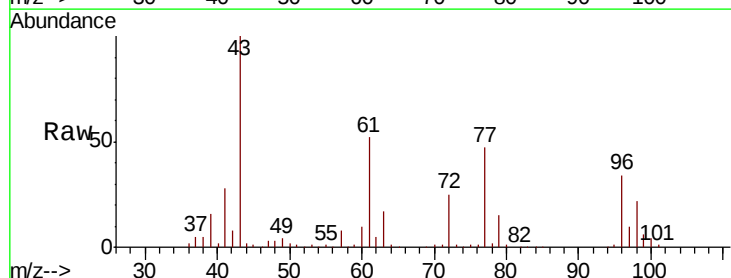
Tgt Ion: 43 Resp: 1551903

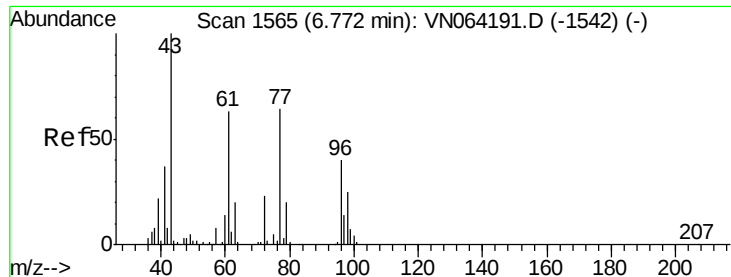
Ion Ratio Lower Upper

43 100

57 8.1 5.8 8.6

72 25.0 19.8 29.8

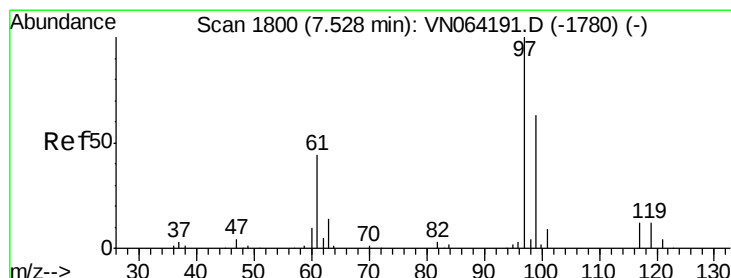
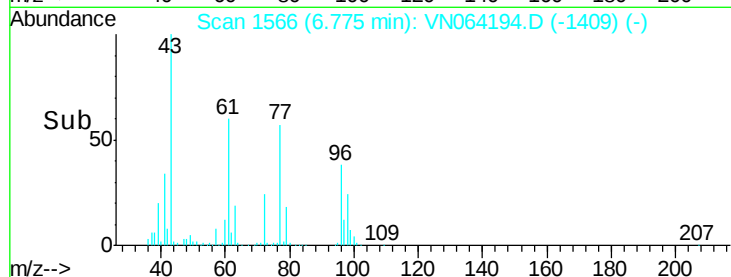
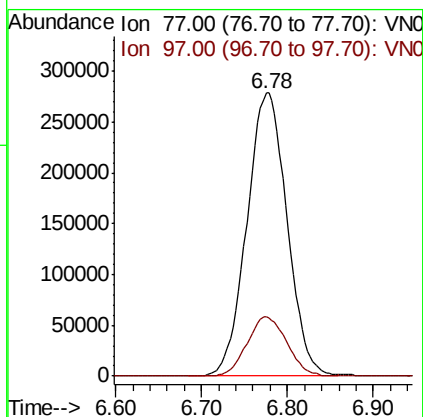
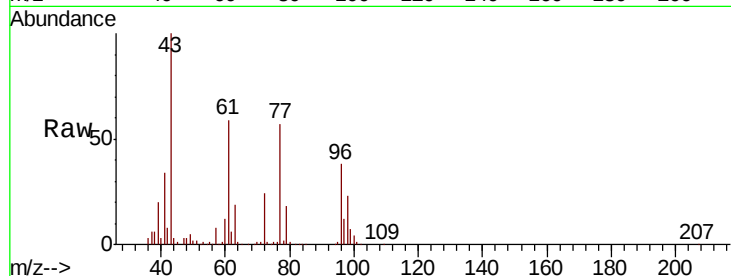




#31  
 2,2-Dichloropropane  
 Concen: 154.734 ug/l  
 RT: 6.78 min Scan# 1566  
 Delta R.T. 0.00 min  
 Lab File: VN064194.D  
 Acq: 20 Oct 2020 11:35

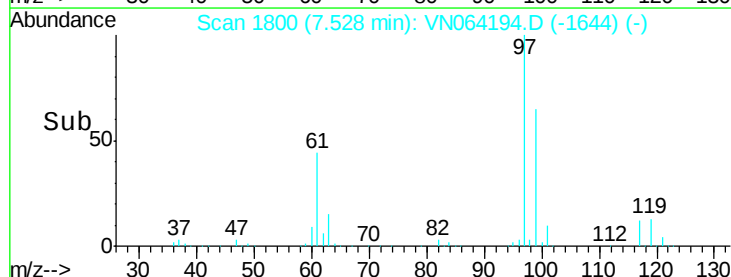
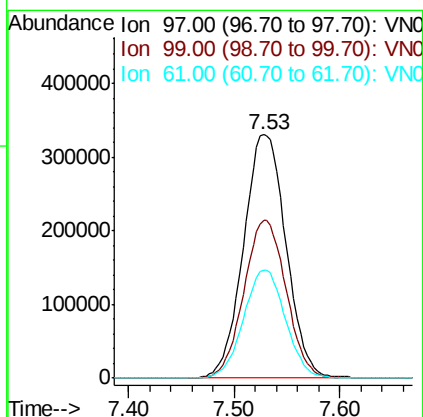
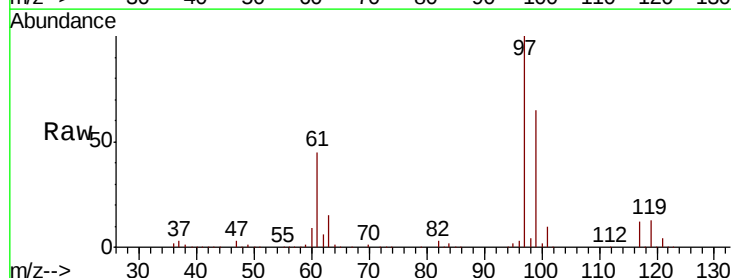
Instrument :  
 BNA\_N  
 ClientSampleId :  
 VSTDIC150

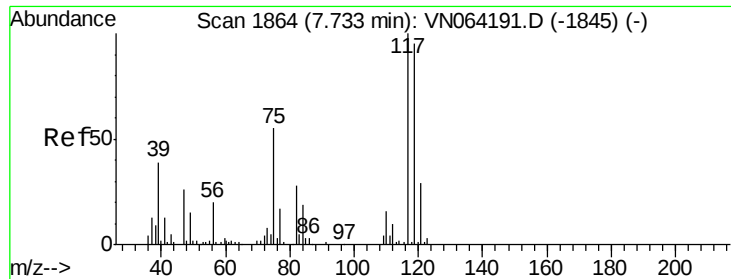
Tot Ion: 77 Resp: 903636  
 Ion Ratio Lower Upper  
 77 100  
 97 20.9 17.3 25.9



#32  
 1,1,1-Trichloroethane  
 Concen: 150.623 ug/l  
 RT: 7.53 min Scan# 1800  
 Delta R.T. 0.00 min  
 Lab File: VN064194.D  
 Acq: 20 Oct 2020 11:35

Tgt Ion: 97 Resp: 926127  
 Ion Ratio Lower Upper  
 97 100  
 99 64.3 51.3 76.9  
 61 43.7 34.8 52.2

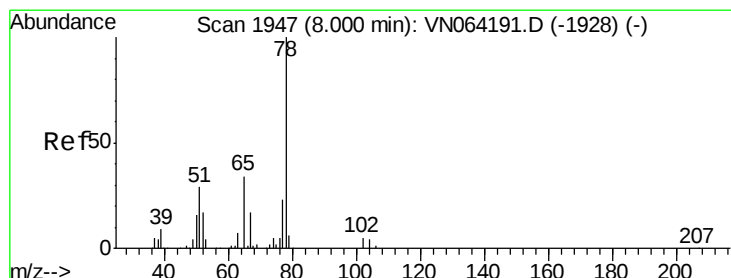
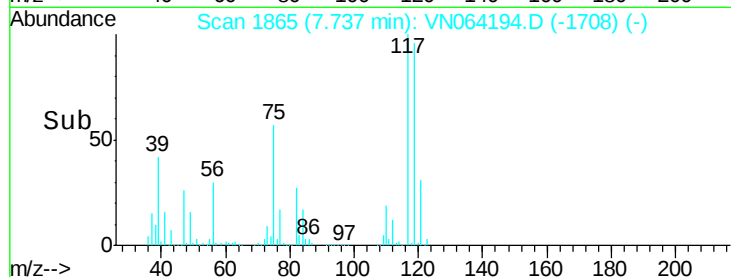
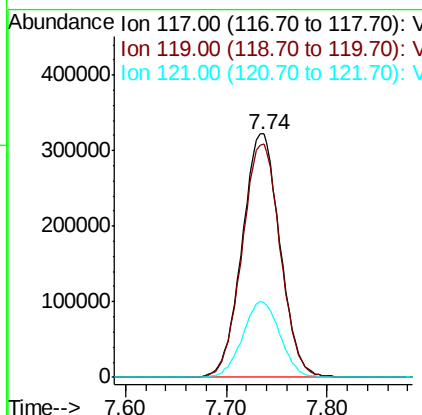
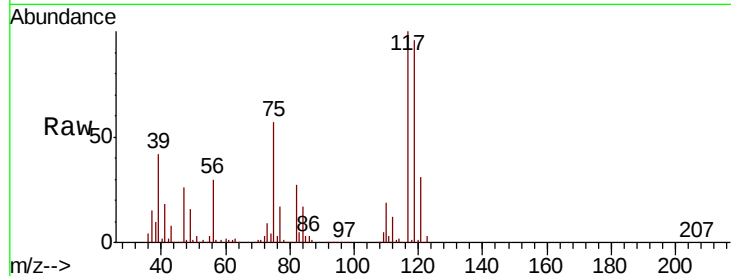




#33  
Carbon Tetrachloride  
Concen: 153.962 ug/l  
RT: 7.74 min Scan# 1865  
Delta R.T. 0.00 min  
Lab File: VN064194.D  
Acq: 20 Oct 2020 11:35

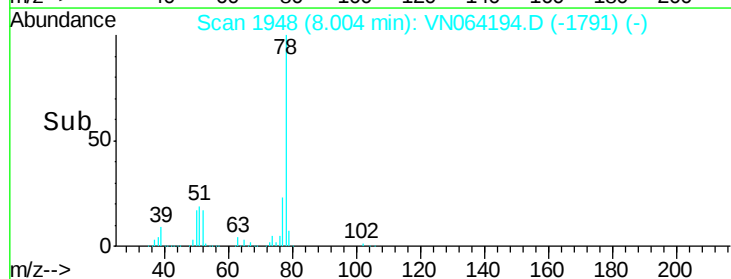
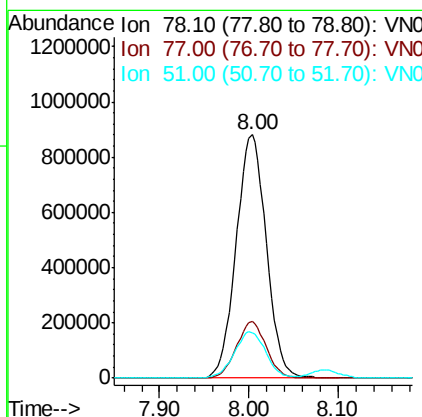
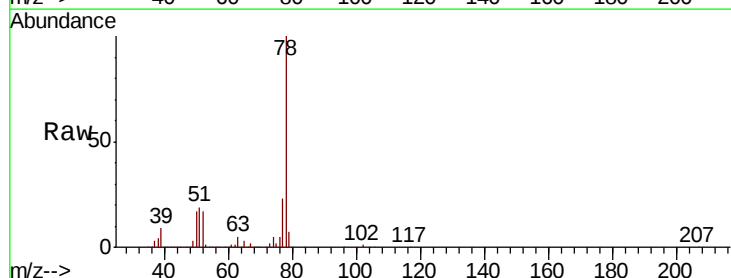
Instrument :  
BNA\_N  
ClientSampleId :  
VSTDIC150

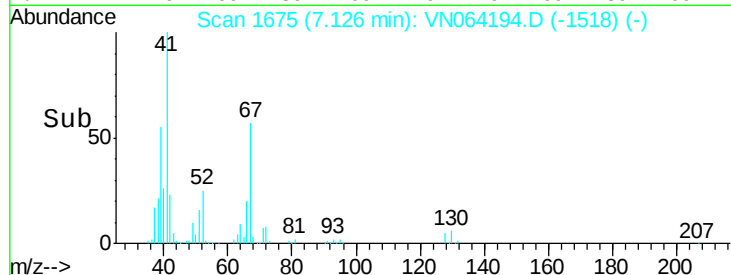
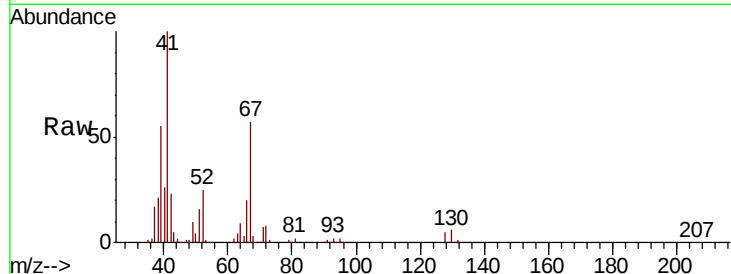
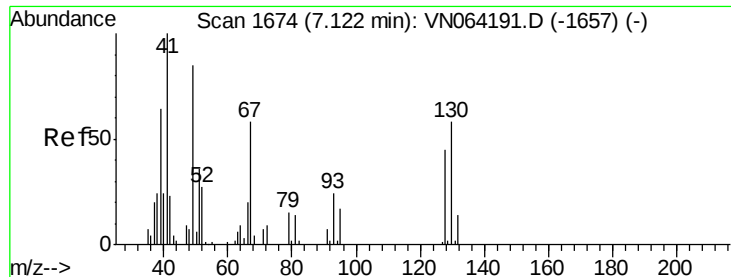
Tot Ion:117 Resp: 837891  
Ion Ratio Lower Upper  
117 100  
119 95.7 76.0 114.0  
121 30.9 23.0 34.6



#34  
Benzene  
Concen: 151.364 ug/l  
RT: 8.00 min Scan# 1948  
Delta R.T. 0.00 min  
Lab File: VN064194.D  
Acq: 20 Oct 2020 11:35

Tgt Ion: 78 Resp: 2066806  
Ion Ratio Lower Upper  
78 100  
77 23.1 18.4 27.6  
51 18.7 23.0 34.6#

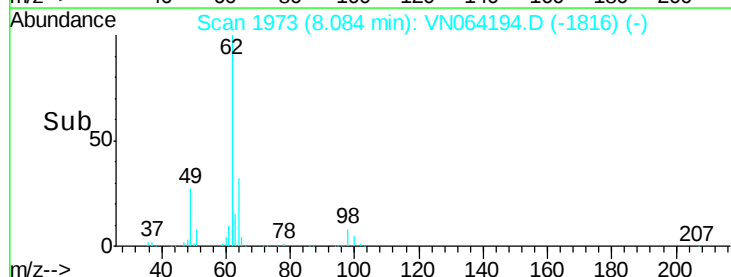
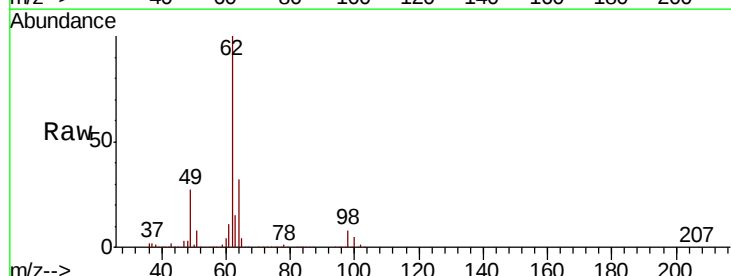
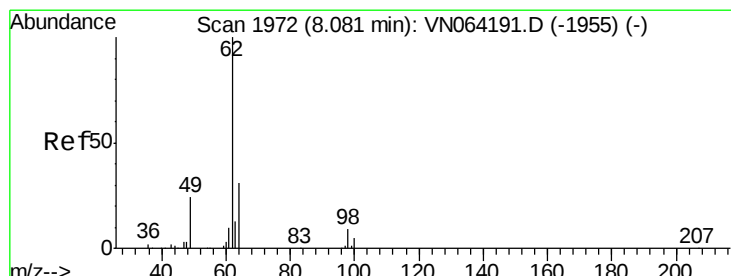
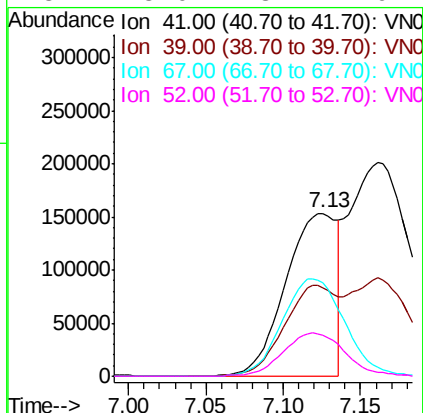




#35  
Methacrylonitrile  
Concen: 156.066 ug/l  
RT: 7.13 min Scan# 1675  
Delta R.T. 0.00 min  
Lab File: VN064194.D  
Acq: 20 Oct 2020 11:35

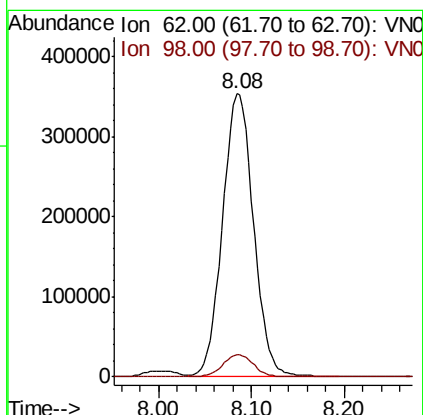
Instrument :  
BNA\_N  
ClientSampleId :  
VSTDICC150

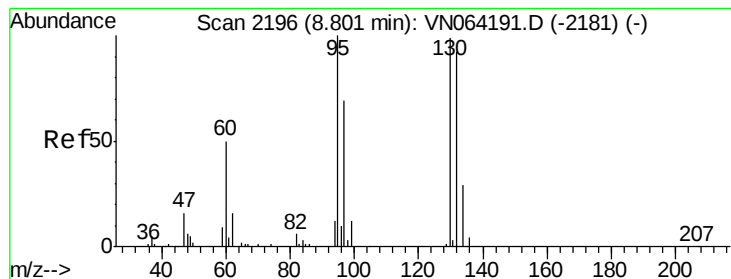
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 41    | Resp: | 352466 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 39       | 54.6  | 32.1  | 96.3   |
| 67       | 57.3  | 28.9  | 86.8   |
| 52       | 25.0  | 13.4  | 40.2   |



#36  
1,2-Dichloroethane  
Concen: 138.514 ug/l  
RT: 8.08 min Scan# 1973  
Delta R.T. 0.00 min  
Lab File: VN064194.D  
Acq: 20 Oct 2020 11:35

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 821804 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 7.8   | 6.3   | 9.5    |





#37

Trichloroethene

Concen: 155.327 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

Instrument :

BNA\_N

ClientSampleId :

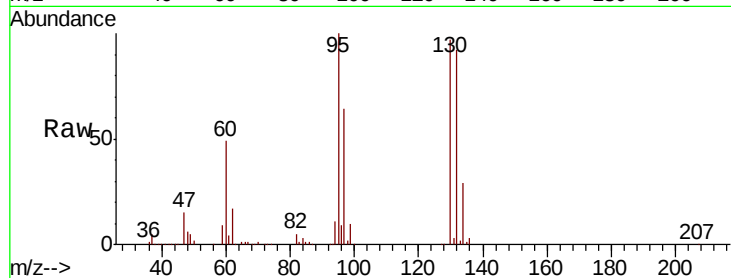
VSTDIC150

Tot Ion:130 Resp: 564325

Ion Ratio Lower Upper

130 100

95 102.6 81.0 121.4



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN

8.80

300000

250000

200000

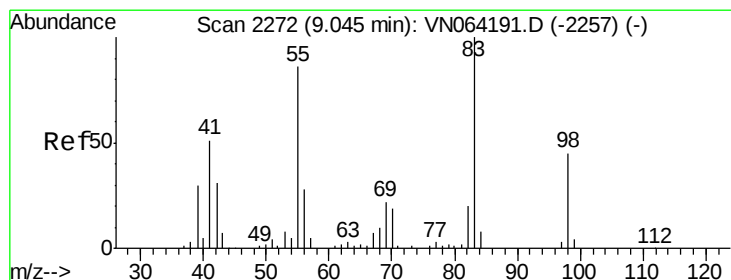
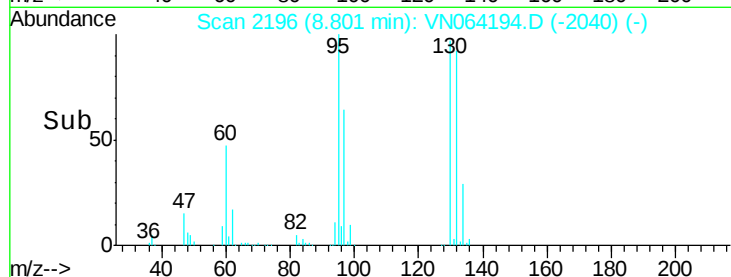
150000

100000

50000

0

Time-->



#38

Methylcyclohexane

Concen: 164.236 ug/l

RT: 9.05 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

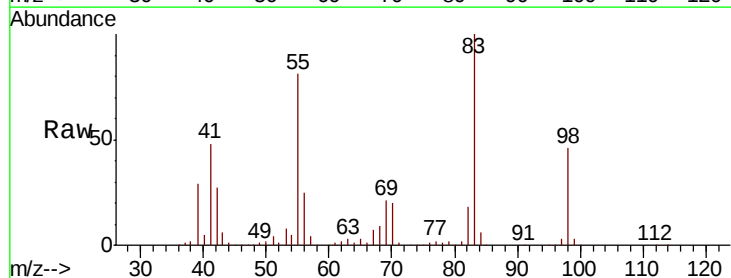
Tgt Ion: 83 Resp: 687379

Ion Ratio Lower Upper

83 100

55 80.3 40.3 120.9

98 46.5 22.4 67.0



Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN

9.05

400000

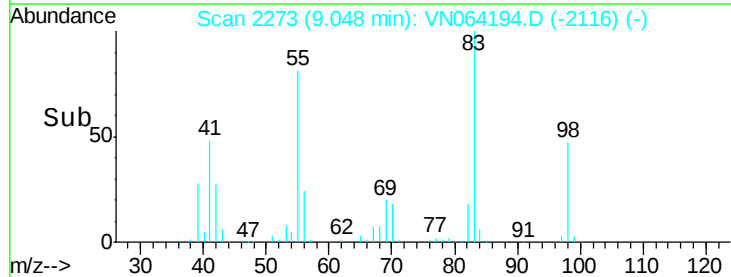
300000

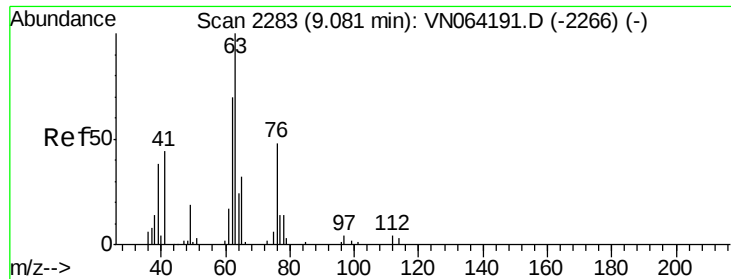
200000

100000

0

Time-->





#39

1,2-Dichloropropane

Concen: 148.692 ug/l

RT: 9.08 min Scan# 2284

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

Instrument :

BNA\_N

ClientSampleId :

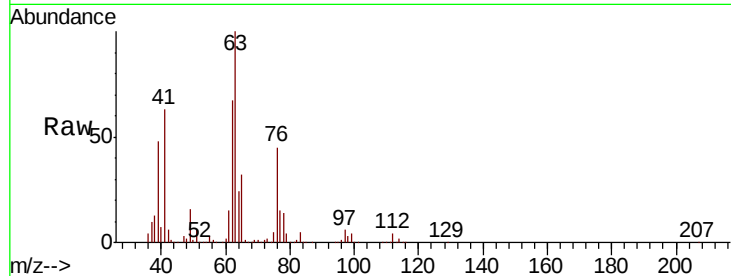
VSTDIC150

Tot Ion: 63 Resp: 548994

Ion Ratio Lower Upper

63 100

65 31.8 26.5 39.7



Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0

9.08

250000

200000

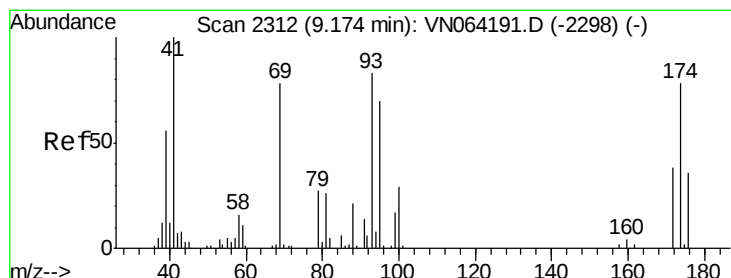
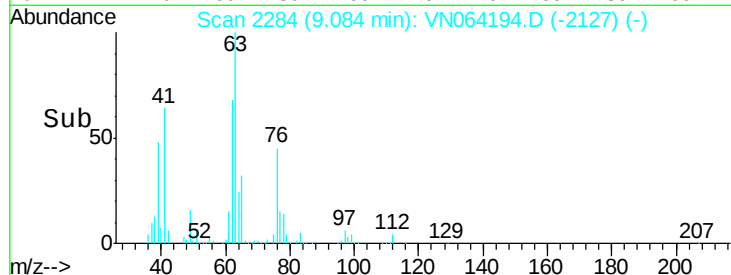
150000

100000

50000

0

Time-->



#40

Dibromomethane

Concen: 144.911 ug/l

RT: 9.17 min Scan# 2312

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

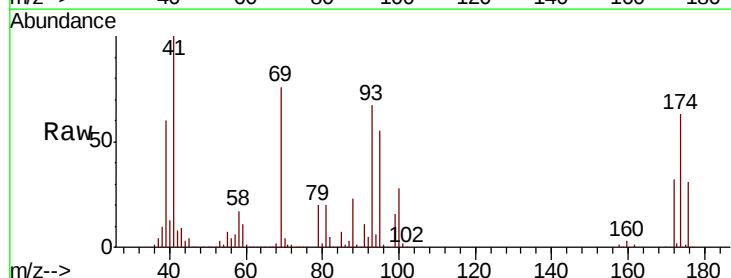
Tgt Ion: 93 Resp: 372265

Ion Ratio Lower Upper

93 100

95 82.0 0.0 169.2

174 95.5 0.0 187.4



Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V

250000

200000

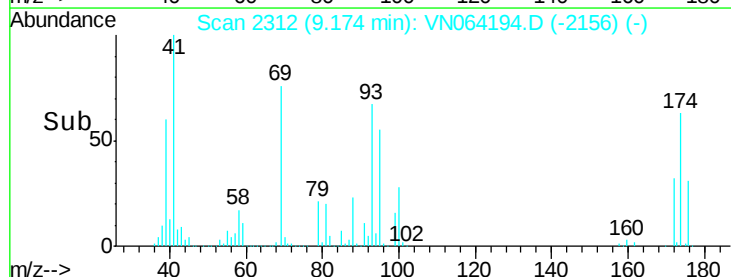
150000

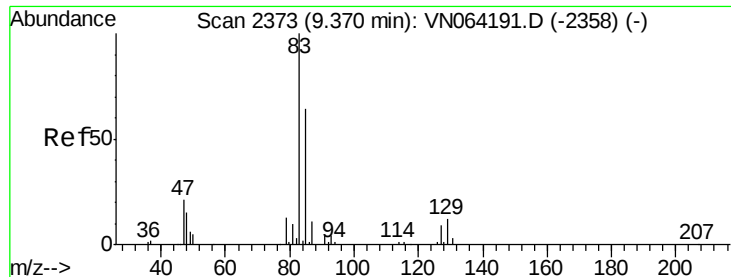
100000

50000

0

Time-->

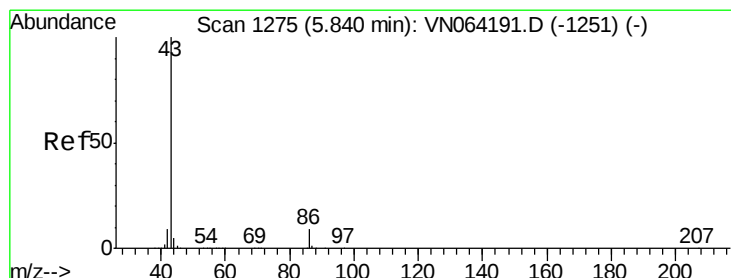
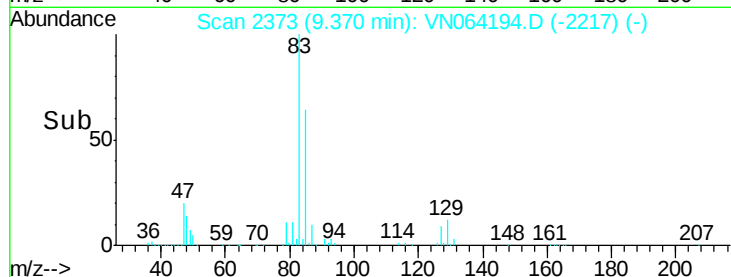
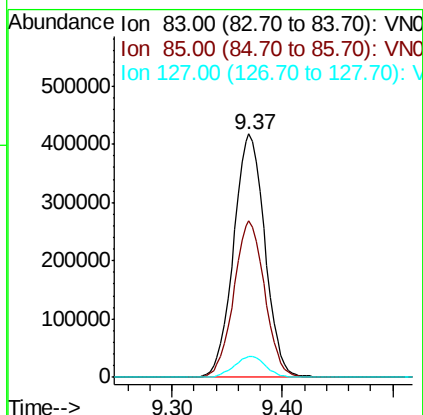
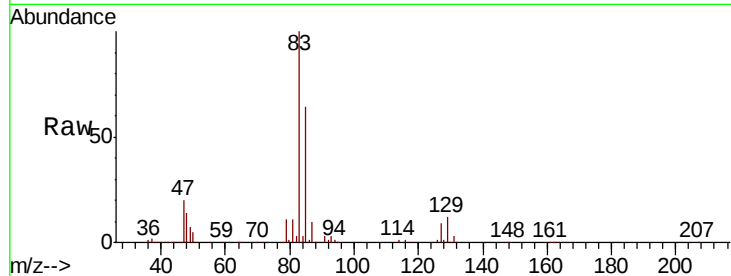




#41  
 Bromodichloromethane  
 Concen: 151.201 ug/l  
 RT: 9.37 min Scan# 2373  
 Delta R.T. 0.00 min  
 Lab File: VN064194.D  
 Acq: 20 Oct 2020 11:35

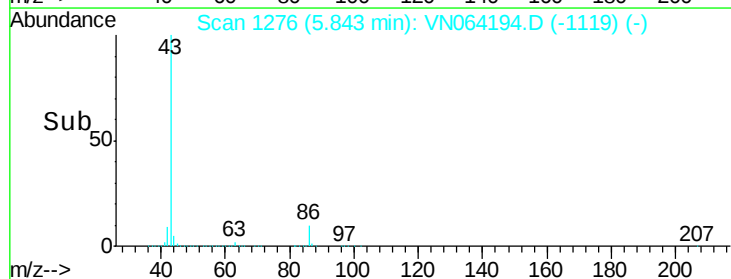
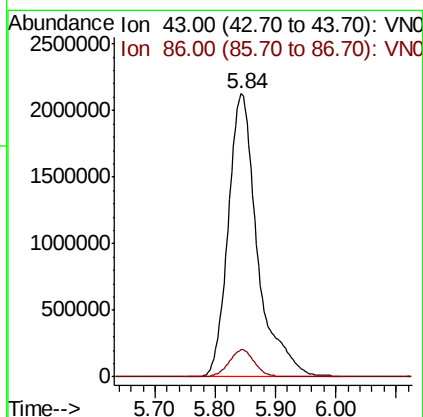
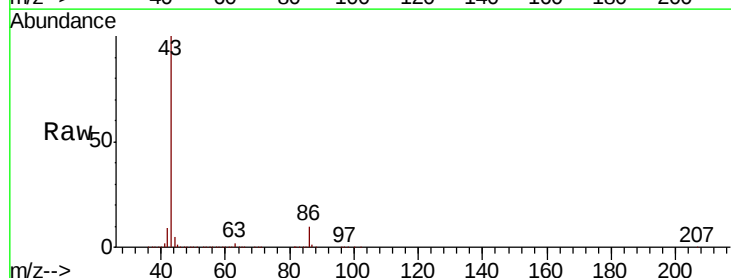
Instrument :  
 BNA\_N  
 ClientSampleId :  
 VSTDIC150

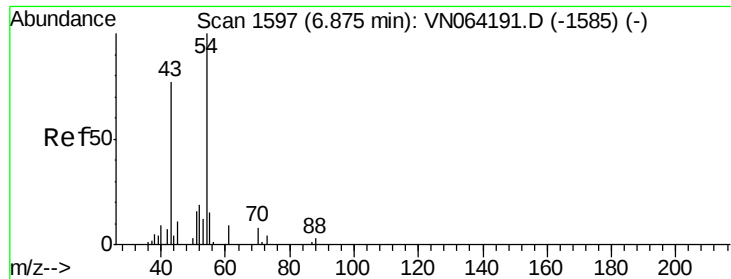
Tot Ion: 83 Resp: 819523  
 Ion Ratio Lower Upper  
 83 100  
 85 64.3 51.5 77.3  
 127 8.7 6.8 10.2



#42  
 Vinyl Acetate  
 Concen: 736.682 ug/l  
 RT: 5.84 min Scan# 1276  
 Delta R.T. 0.00 min  
 Lab File: VN064194.D  
 Acq: 20 Oct 2020 11:35

Tgt Ion: 43 Resp: 7202018  
 Ion Ratio Lower Upper  
 43 100  
 86 8.5 6.7 10.1





#43

Ethyl Acetate

Concen: 134.148 ug/l

RT: 6.88 min Scan# 1599

Delta R.T. 0.01 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

Instrument :

BNA\_N

ClientSampleId :

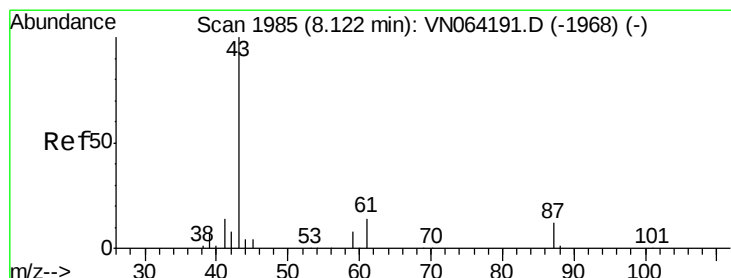
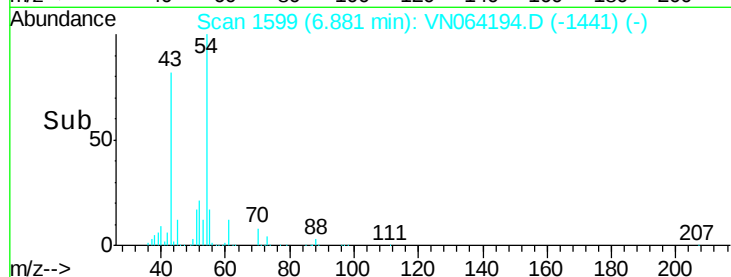
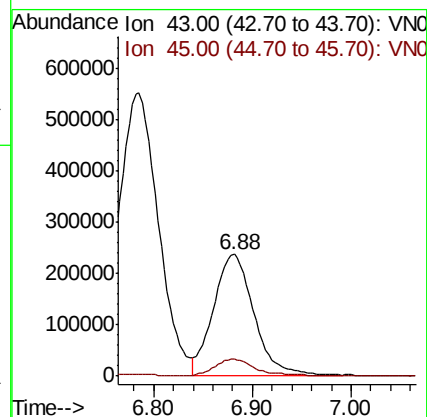
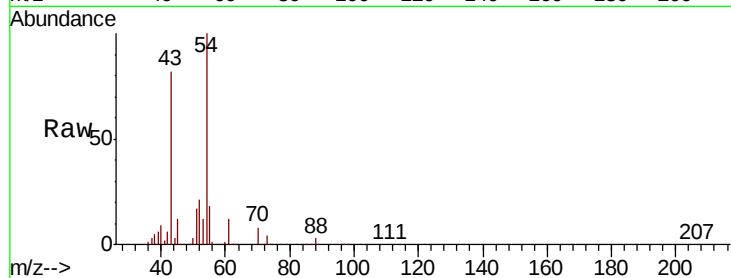
VSTDIC150

Tot Ion: 43 Resp: 668046

Ion Ratio Lower Upper

43 100

45 14.3 9.8 14.8



#44

Isopropyl Acetate

Concen: 151.169 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN064194.D

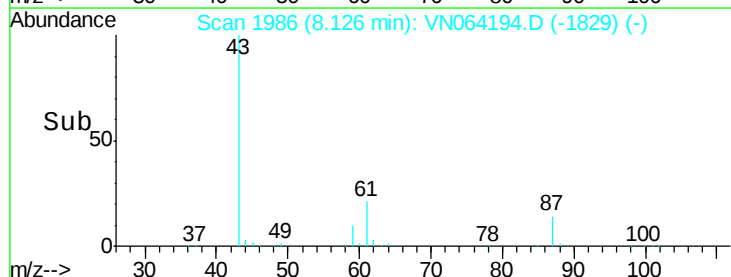
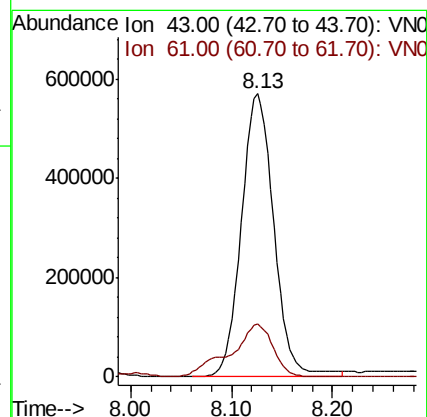
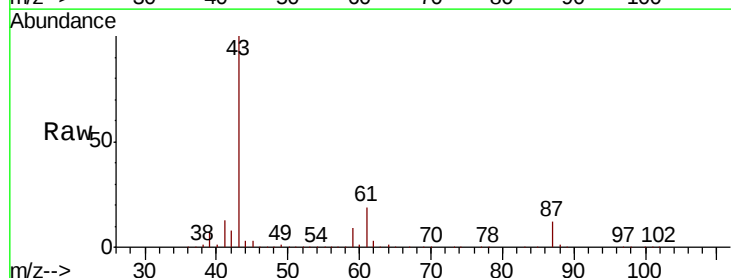
Acq: 20 Oct 2020 11:35

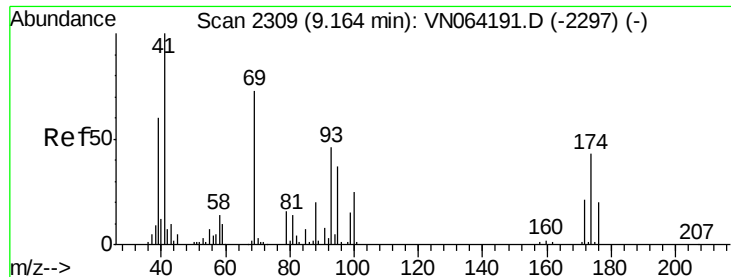
Tgt Ion: 43 Resp: 1270328

Ion Ratio Lower Upper

43 100

61 24.5 18.7 28.1

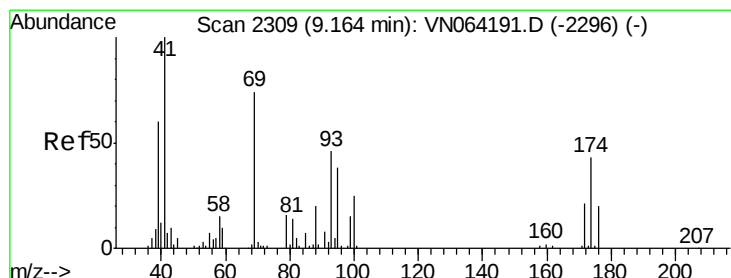
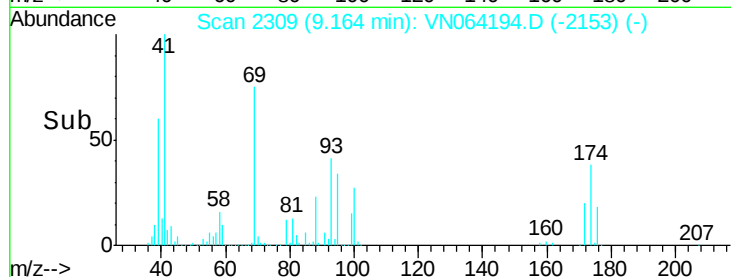
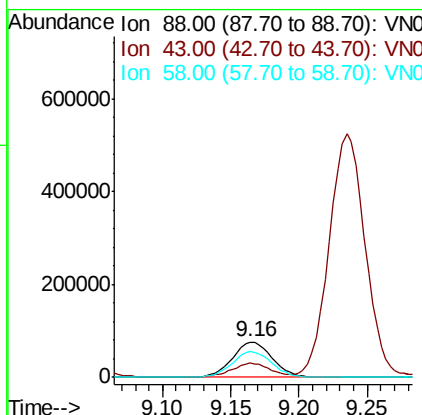
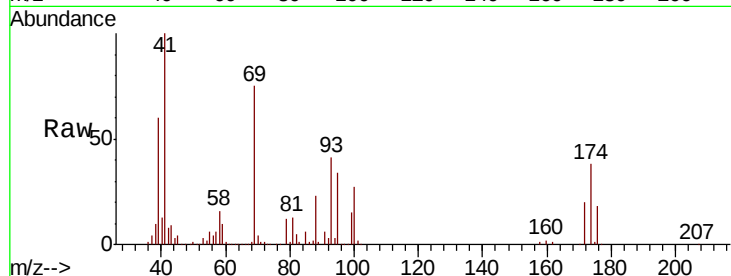




#45  
 1,4-Dioxane  
 Concen: 2934.776 ug/l  
 RT: 9.16 min Scan# 2309  
 Delta R.T. 0.00 min  
 Lab File: VN064194.D  
 Acq: 20 Oct 2020 11:35

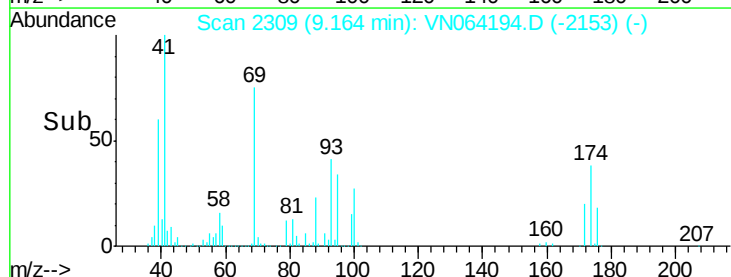
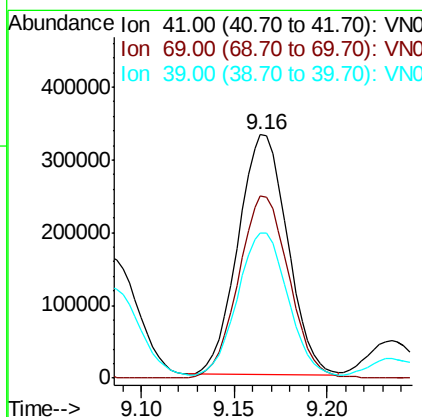
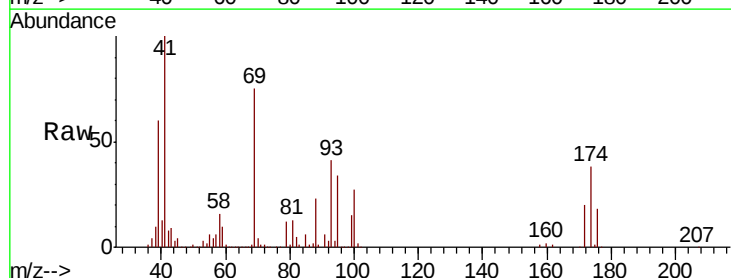
Instrument :  
 BNA\_N  
 ClientSampleId :  
 VSTDIC150

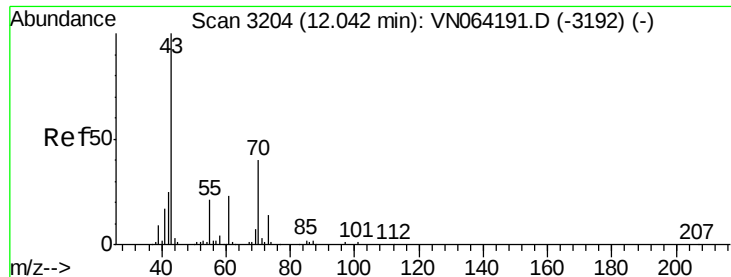
Tot Ion: 88 Resp: 154296  
 Ion Ratio Lower Upper  
 88 100  
 43 36.2 37.0 55.4#  
 58 73.1 62.4 93.6



#46  
 Methyl methacrylate  
 Concen: 148.170 ug/l  
 RT: 9.16 min Scan# 2309  
 Delta R.T. 0.00 min  
 Lab File: VN064194.D  
 Acq: 20 Oct 2020 11:35

Tgt Ion: 41 Resp: 614360  
 Ion Ratio Lower Upper  
 41 100  
 69 75.6 36.8 110.4  
 39 59.1 30.4 91.2

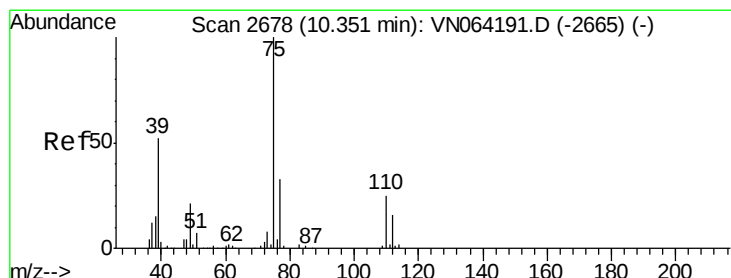
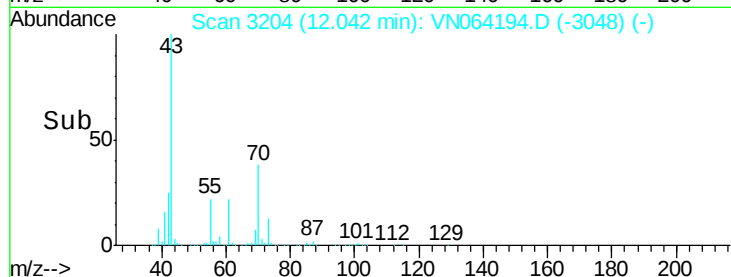
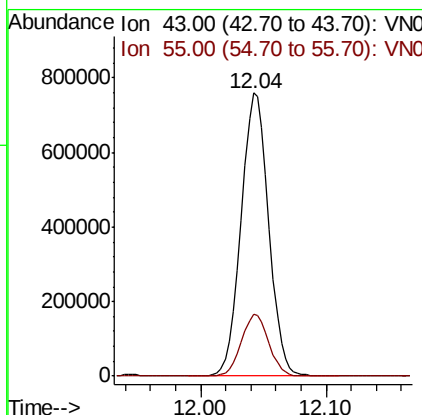
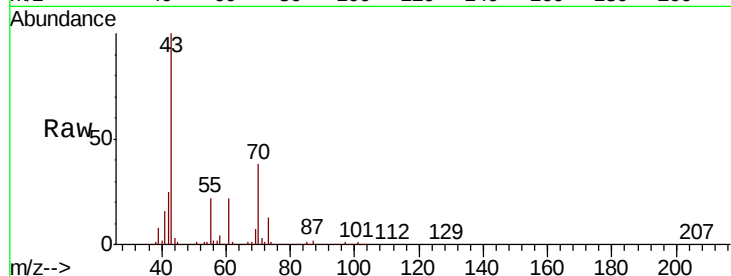




#47  
n-amvl Acetate  
Concen: 154.617 ug/l  
RT: 12.04 min Scan# 3204  
Delta R.T. 0.00 min  
Lab File: VN064194.D  
Acq: 20 Oct 2020 11:35

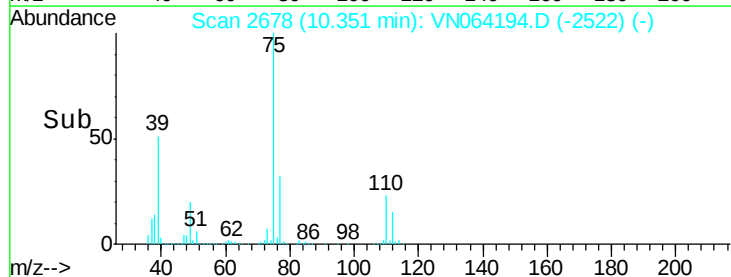
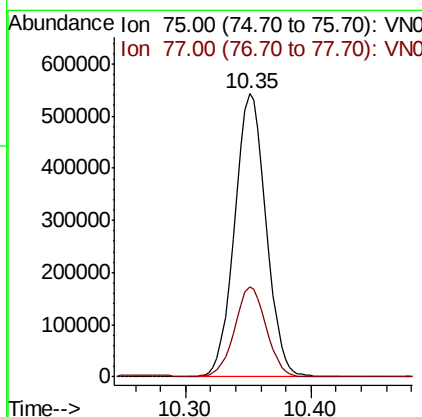
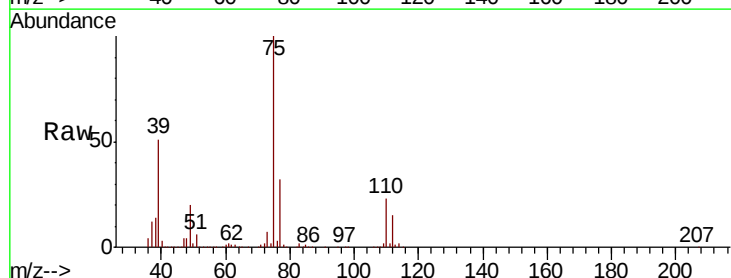
Instrument :  
BNA\_N  
ClientSampleId :  
VSTDIC150

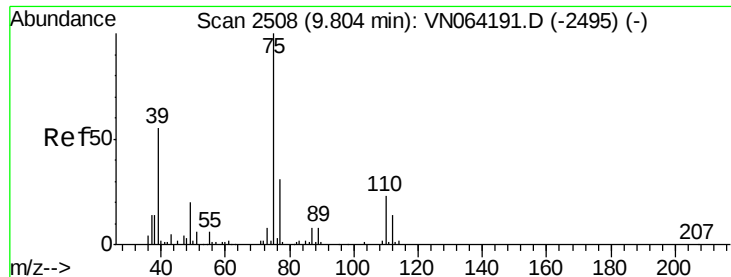
Tot Ion: 43 Resp: 1157707  
Ion Ratio Lower Upper  
43 100  
55 21.7 17.6 26.4



#48  
t-1,3-Dichloropropene  
Concen: 160.186 ug/l  
RT: 10.35 min Scan# 2678  
Delta R.T. 0.00 min  
Lab File: VN064194.D  
Acq: 20 Oct 2020 11:35

Tgt Ion: 75 Resp: 944496  
Ion Ratio Lower Upper  
75 100  
77 31.5 27.4 41.2



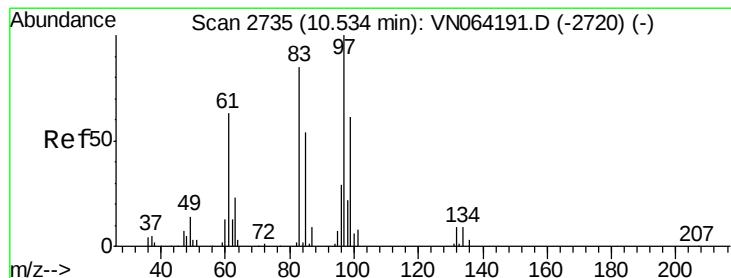
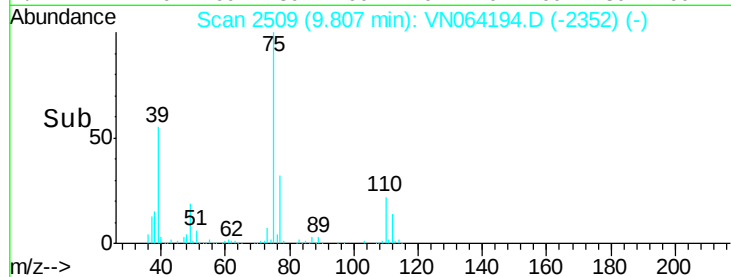
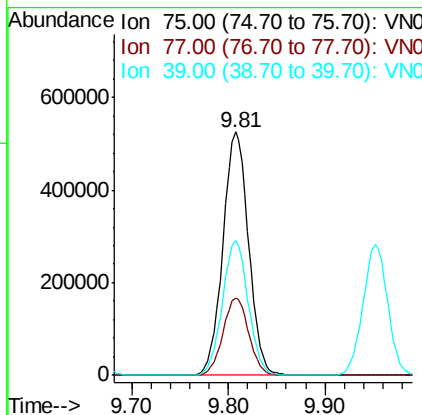
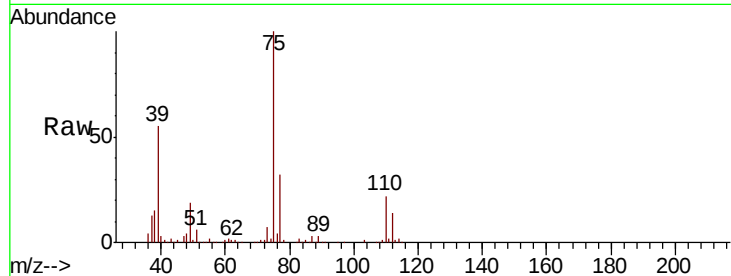


#49

cis-1,3-Dichloropropene  
 Concen: 157.984 ug/l  
 RT: 9.81 min Scan# 2509  
 Delta R.T. 0.00 min  
 Lab File: VN064194.D  
 Acq: 20 Oct 2020 11:35

Instrument :  
 BNA\_N  
 ClientSampleId :  
 VSTDIC150

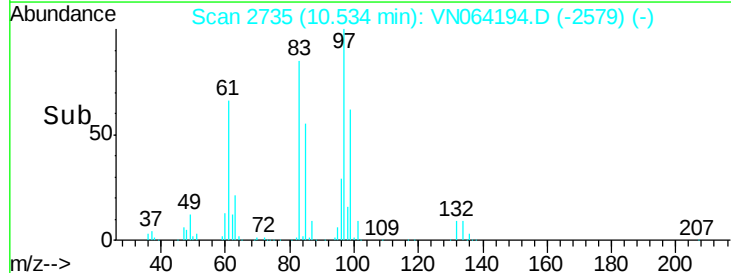
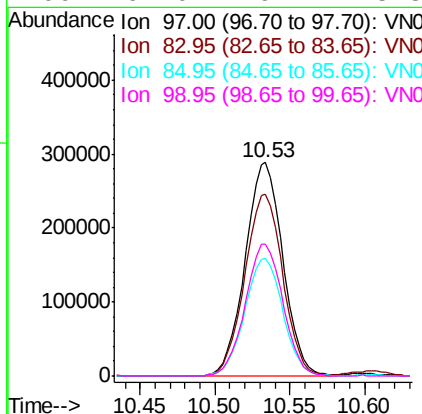
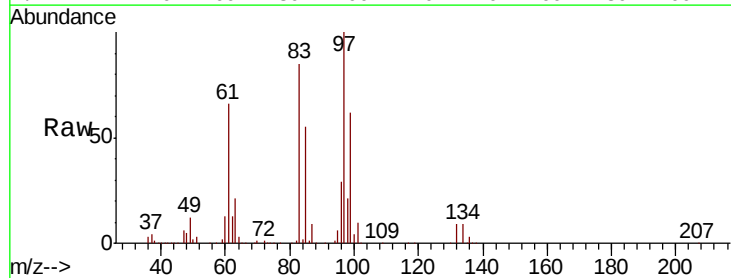
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 32.0  | 24.5  | 36.7  |
| 39      | 55.3  | 43.8  | 65.8  |

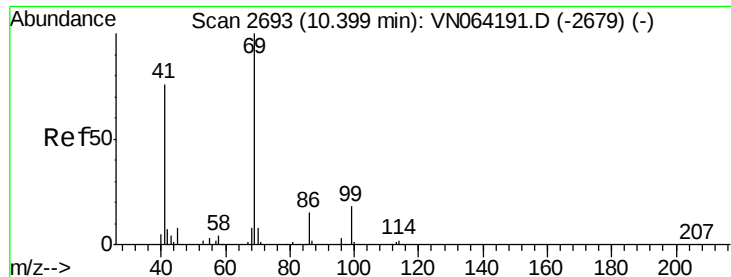


#50

1,1,2-Trichloroethane  
 Concen: 146.431 ug/l  
 RT: 10.53 min Scan# 2735  
 Delta R.T. 0.00 min  
 Lab File: VN064194.D  
 Acq: 20 Oct 2020 11:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 85.0  | 67.7  | 101.5 |
| 85      | 54.9  | 43.2  | 64.8  |
| 99      | 62.0  | 49.2  | 73.8  |





#51

Ethyl methacrylate

Concen: 158.957 ug/l

RT: 10.40 min Scan# 2693

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

Instrument :

BNA\_N

ClientSampleId :

VSTDIC150

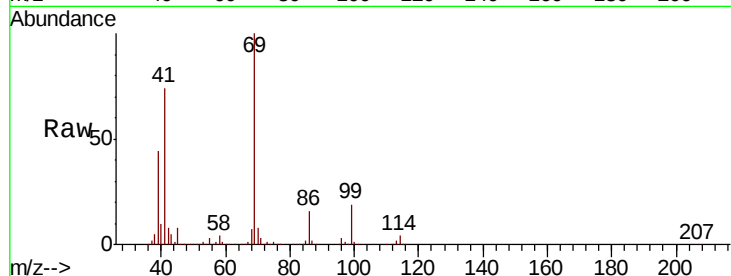
Tot Ion: 69 Resp: 812491

Ion Ratio Lower Upper

69 100

41 73.7 38.0 114.1

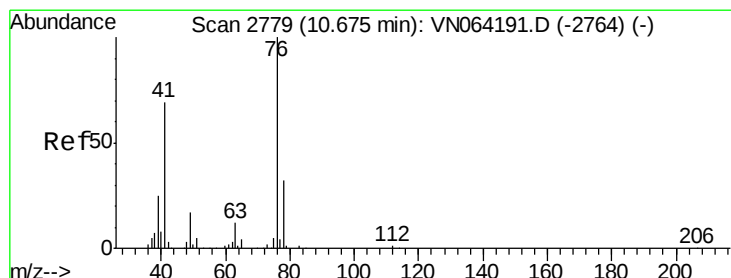
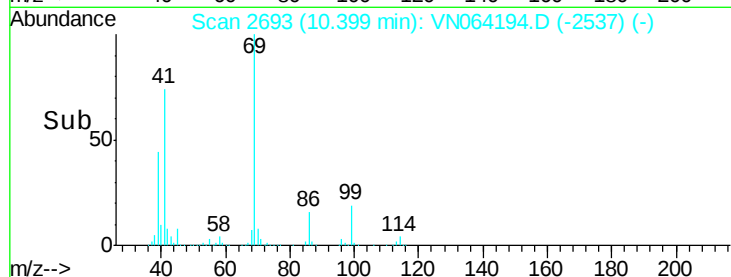
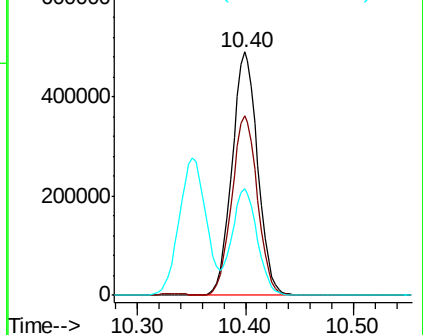
39 43.7 21.4 64.3



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#52

1,3-Dichloropropane

Concen: 148.578 ug/l

RT: 10.68 min Scan# 2780

Delta R.T. 0.00 min

Lab File: VN064194.D

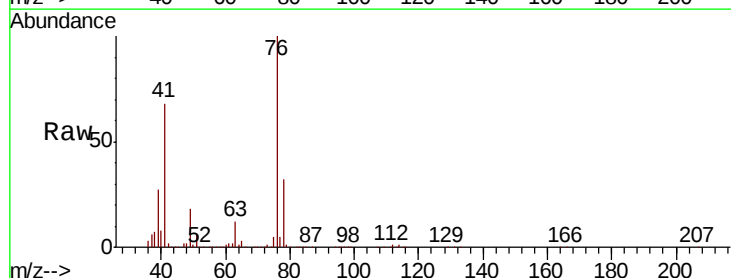
Acq: 20 Oct 2020 11:35

Tgt Ion: 76 Resp: 882967

Ion Ratio Lower Upper

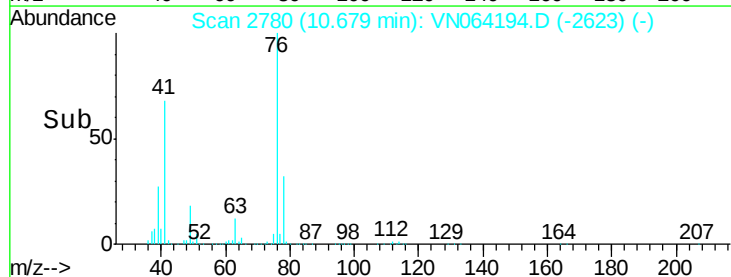
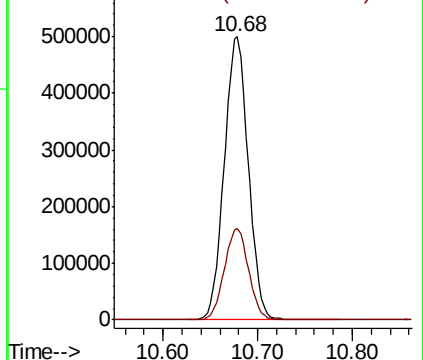
76 100

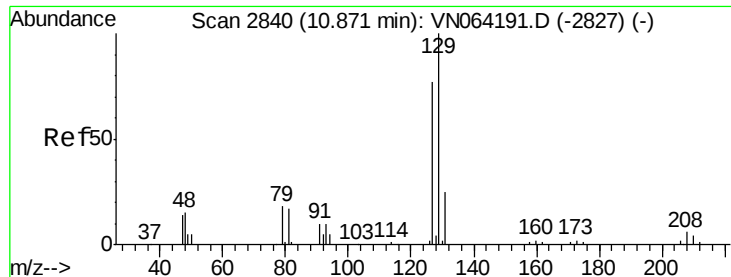
78 32.3 0.0 64.4



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

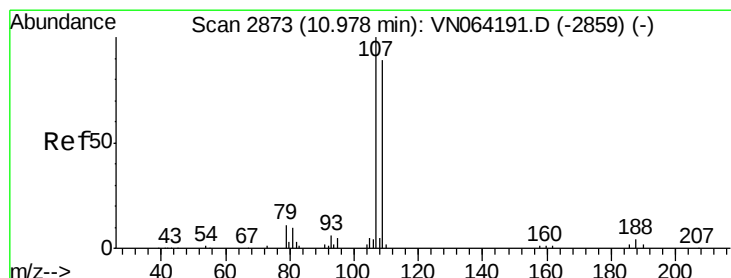
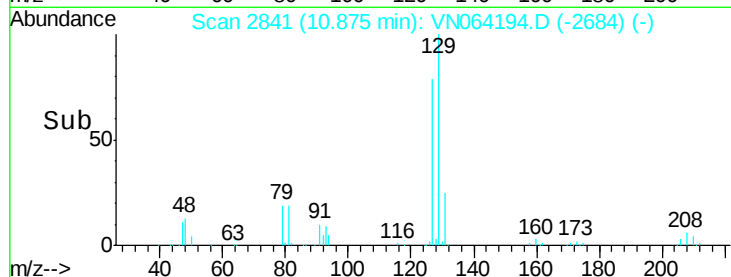
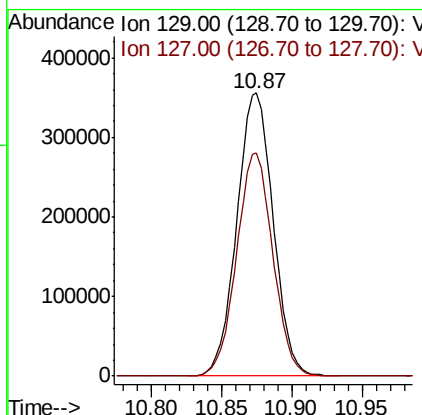
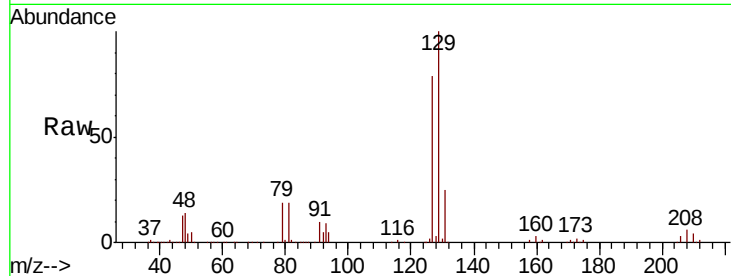




#53  
 Dibromochloromethane  
 Concen: 159.798 ug/l  
 RT: 10.87 min Scan# 2841  
 Delta R.T. 0.00 min  
 Lab File: VN064194.D  
 Acq: 20 Oct 2020 11:35

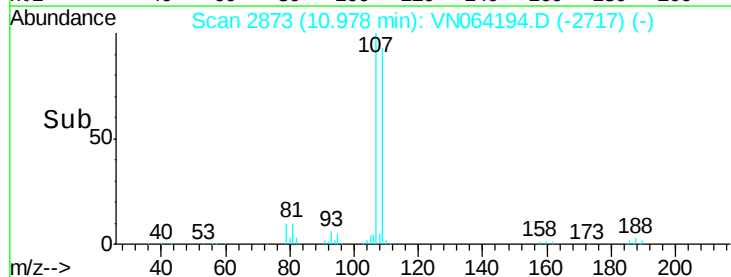
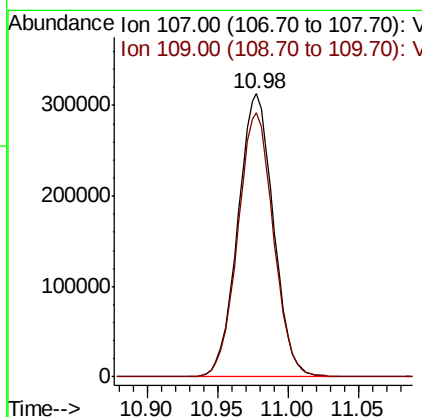
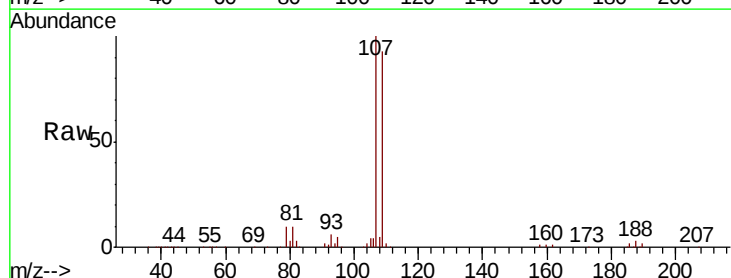
Instrument :  
 BNA\_N  
 ClientSampleId :  
 VSTDIC150

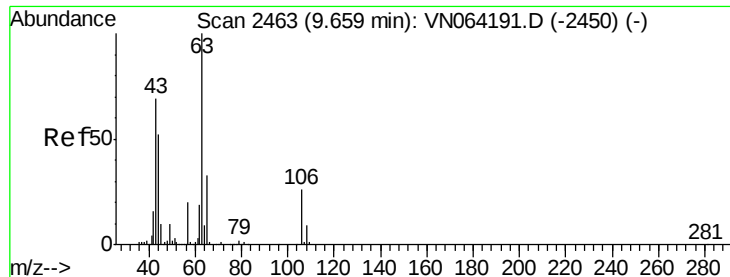
Tot Ion:129 Resp: 644165  
 Ion Ratio Lower Upper  
 129 100  
 127 78.6 39.0 117.0



#54  
 1,2-Dibromoethane  
 Concen: 152.178 ug/l  
 RT: 10.98 min Scan# 2873  
 Delta R.T. 0.00 min  
 Lab File: VN064194.D  
 Acq: 20 Oct 2020 11:35

Tgt Ion:107 Resp: 552599  
 Ion Ratio Lower Upper  
 107 100  
 109 93.5 71.8 107.8





#55

2-Chloroethyl vinyl ether

Concen: 743.783 ug/l

RT: 9.66 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

Instrument :

BNA\_N

ClientSampleId :

VSTDIC150

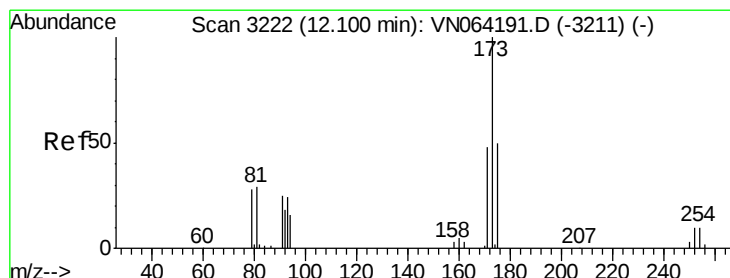
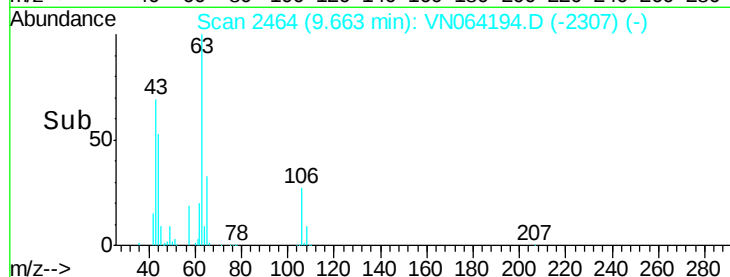
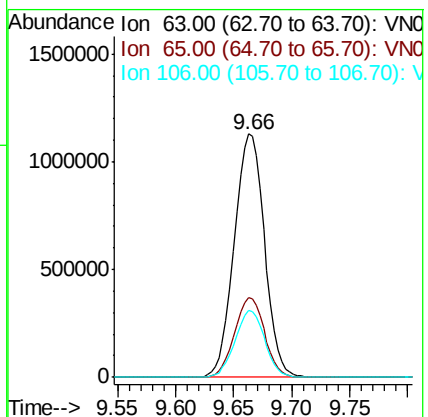
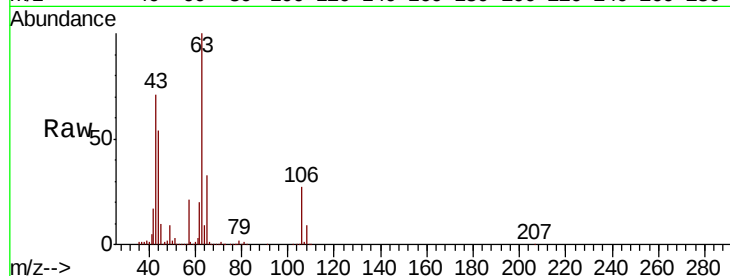
Tot Ion: 63 Resp: 2040652

Ion Ratio Lower Upper

63 100

65 32.4 25.9 38.9

106 26.9 21.4 32.2



#56

Bromoform

Concen: 166.199 ug/l

RT: 12.10 min Scan# 3222

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

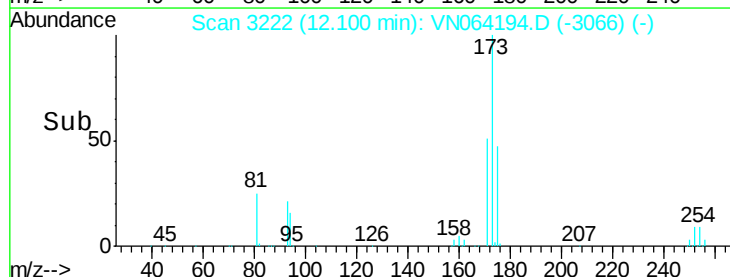
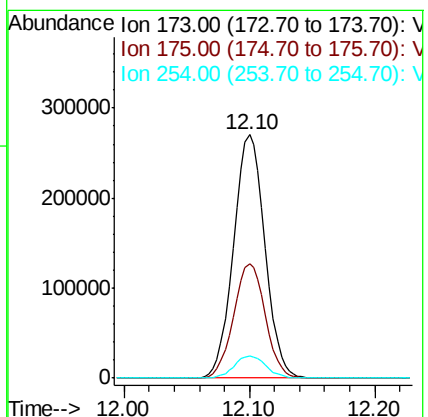
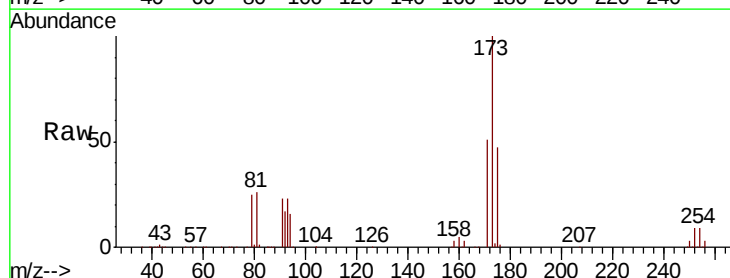
Tgt Ion: 173 Resp: 469329

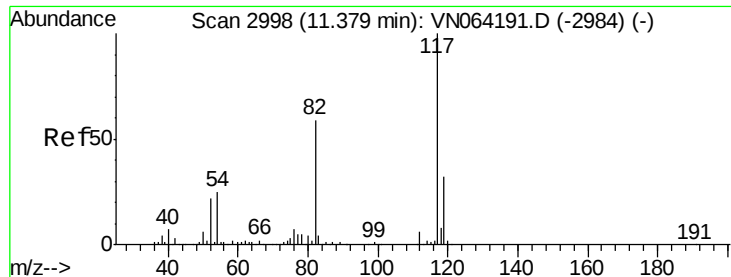
Ion Ratio Lower Upper

173 100

175 47.6 39.0 58.4

254 9.2 6.8 10.2

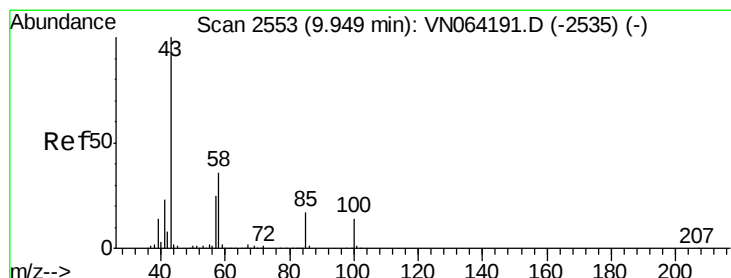
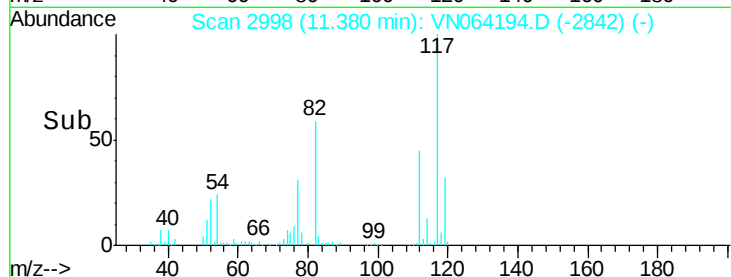
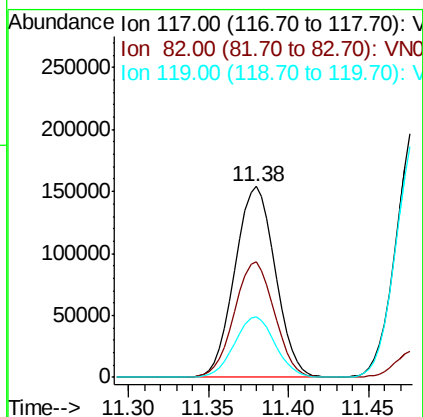
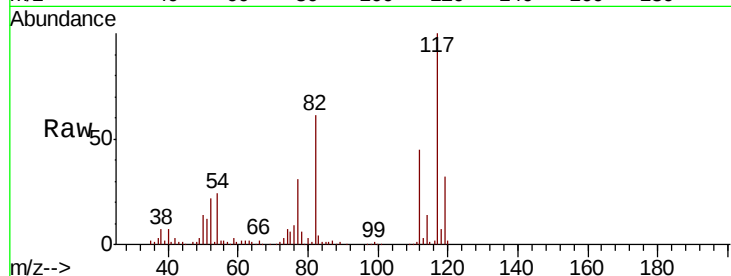




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.38 min Scan# 2998  
Delta R.T. 0.00 min  
Lab File: VN064194.D  
Acq: 20 Oct 2020 11:35

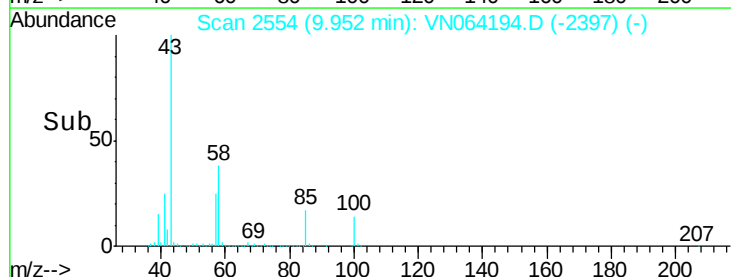
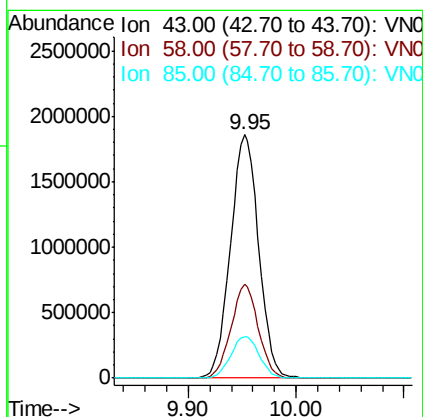
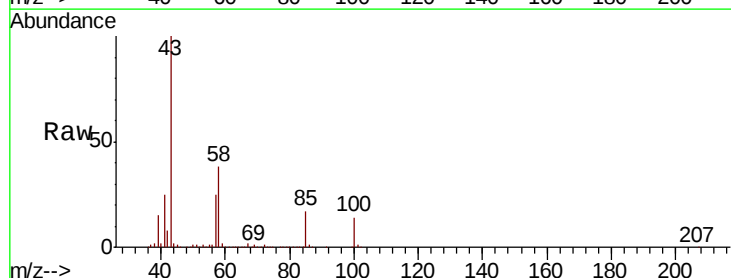
Instrument :  
BNA\_N  
ClientSampleId :  
VSTDIC150

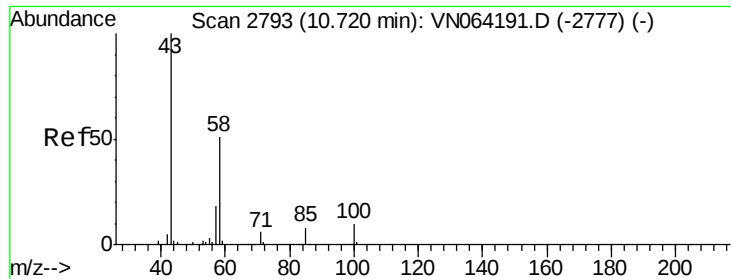
Tot Ion:117 Resp: 266802  
Ion Ratio Lower Upper  
117 100  
82 59.9 47.8 71.8  
119 31.9 25.7 38.5



#58  
4-Methyl-2-Pentanone  
Concen: 697.427 ug/l  
RT: 9.95 min Scan# 2554  
Delta R.T. 0.00 min  
Lab File: VN064194.D  
Acq: 20 Oct 2020 11:35

Tgt Ion: 43 Resp: 3382459  
Ion Ratio Lower Upper  
43 100  
58 37.3 29.5 44.3  
85 17.3 13.7 20.5

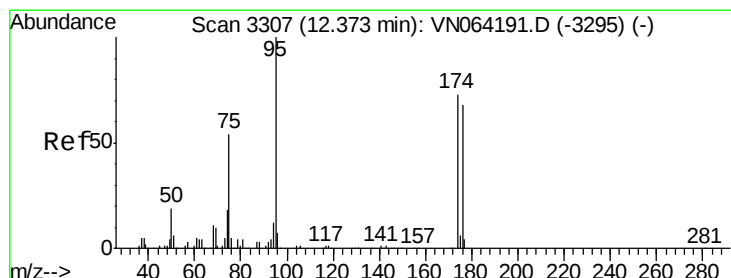
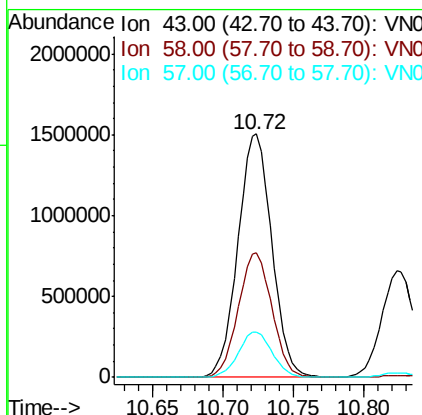
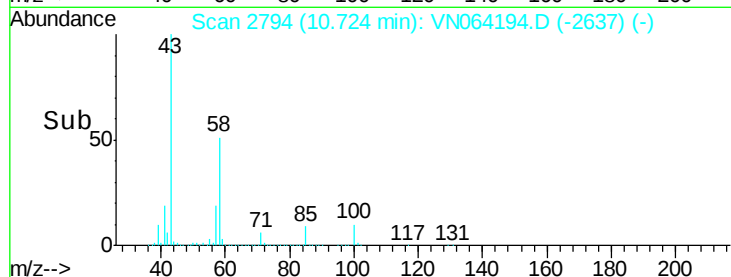
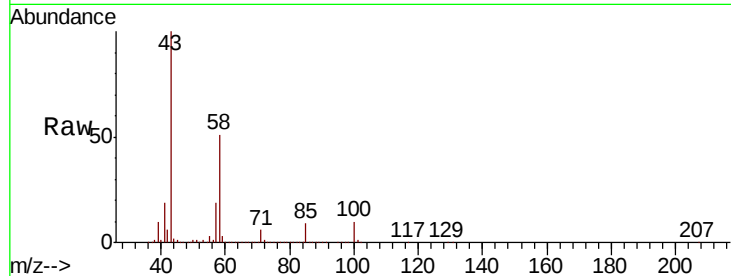




#59  
2-Hexanone  
Concen: 696.827 ug/l  
RT: 10.72 min Scan# 2794  
Delta R.T. 0.00 min  
Lab File: VN064194.D  
Acq: 20 Oct 2020 11:35

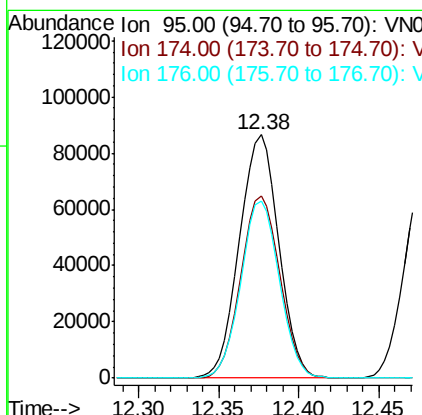
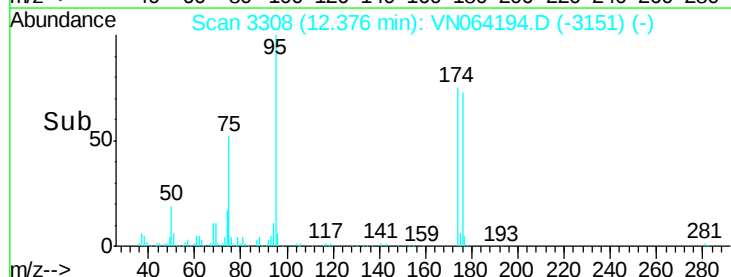
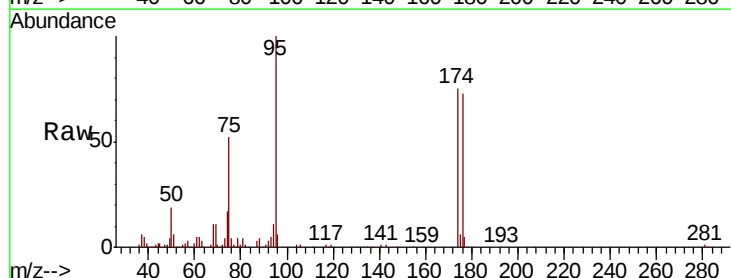
Instrument :  
BNA\_N  
ClientSampleId :  
VSTDIC150

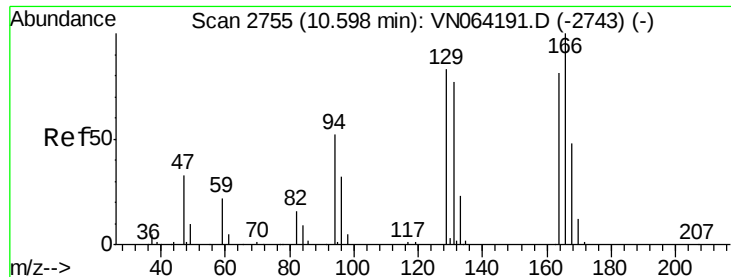
Tot Ion: 43 Resp: 2526323  
Ion Ratio Lower Upper  
43 100  
58 51.1 40.2 60.4  
57 18.8 14.8 22.2



#60  
4-Bromofluorobenzene  
Concen: 31.214 ug/l  
RT: 12.38 min Scan# 3308  
Delta R.T. 0.00 min  
Lab File: VN064194.D  
Acq: 20 Oct 2020 11:35

Tgt Ion: 95 Resp: 145158  
Ion Ratio Lower Upper  
95 100  
174 74.5 57.6 86.4  
176 71.2 54.9 82.3





#61

Tetrachloroethene

Concen: 159.332 ug/l

RT: 10.60 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

Instrument :

BNA\_N

ClientSampleId :

VSTDIC150

Tot Ion:164 Resp: 521722

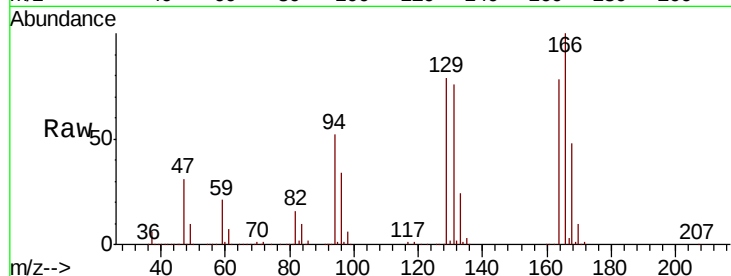
Ion Ratio Lower Upper

164 100

166 128.3 99.2 148.8

129 101.8 82.8 124.2

131 97.1 76.2 114.4

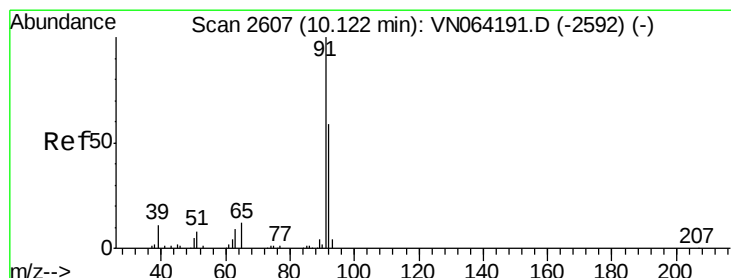
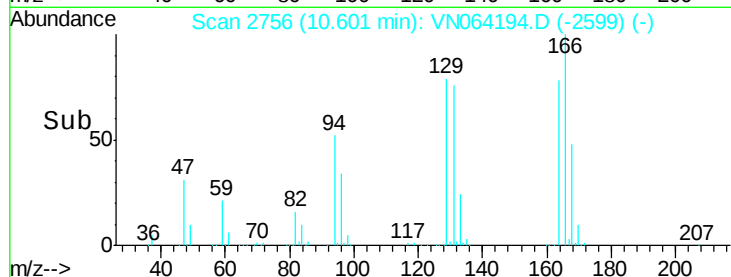
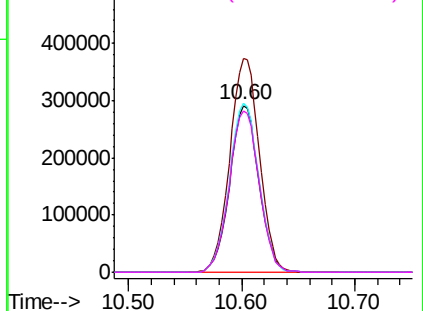


Abundance Ion 163.85 (163.55 to 164.55): V

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: 154.520 ug/l

RT: 10.13 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN064194.D

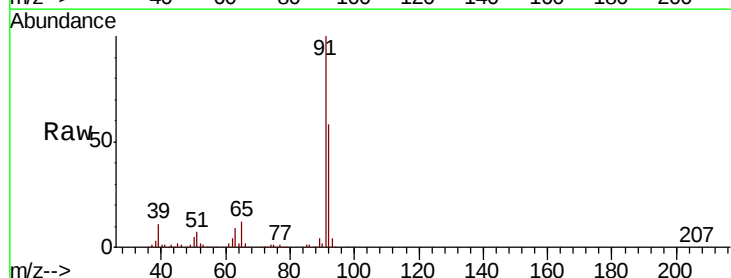
Acq: 20 Oct 2020 11:35

Tgt Ion: 91 Resp: 2283728

Ion Ratio Lower Upper

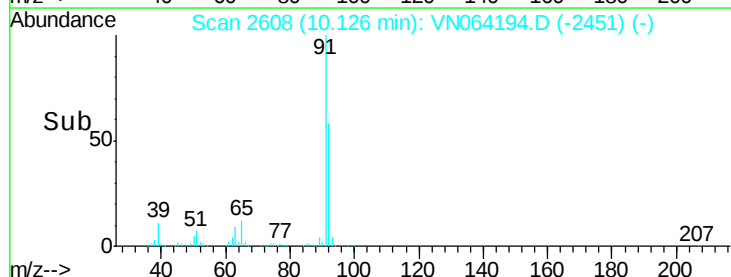
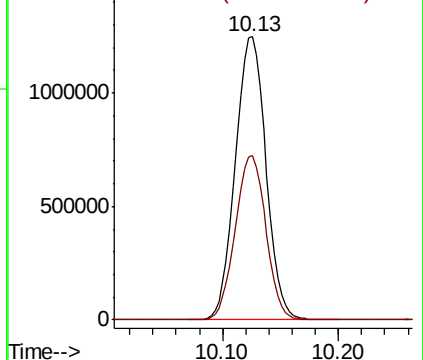
91 100

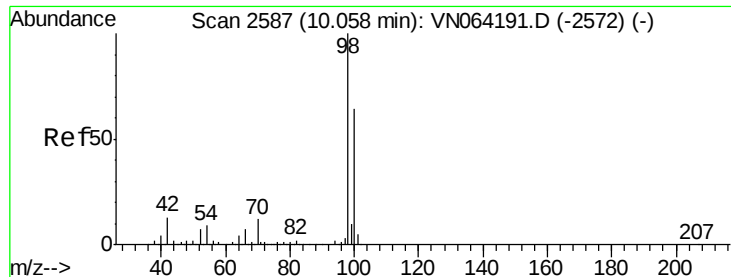
92 58.2 46.8 70.2



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0





#63

Toluene-d8

Concen: 29.566 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

Instrument :

BNA\_N

ClientSampleId :

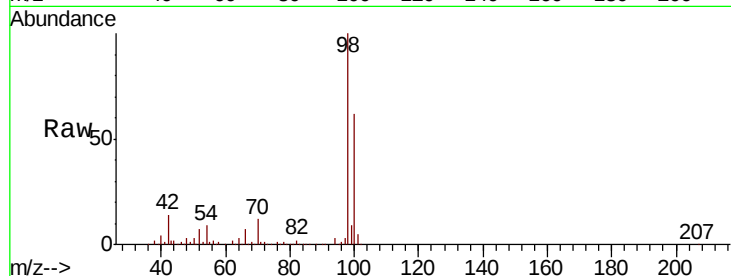
VSTDIC150

Tot Ion: 98 Resp: 357849

Ion Ratio Lower Upper

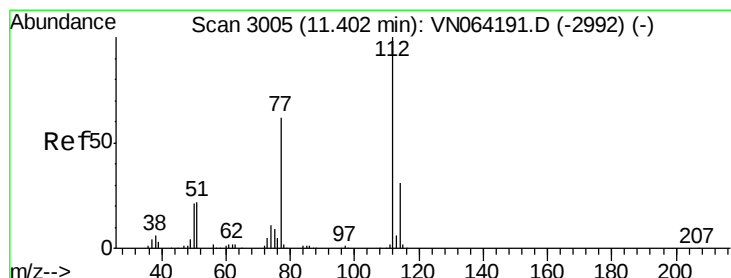
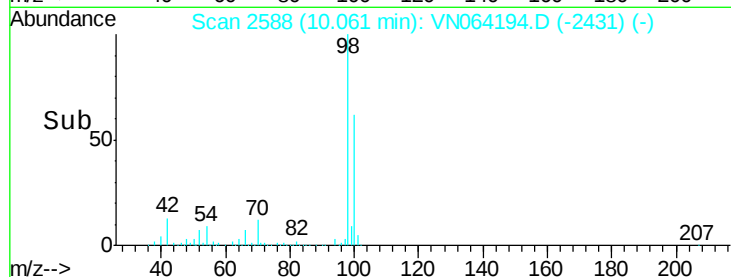
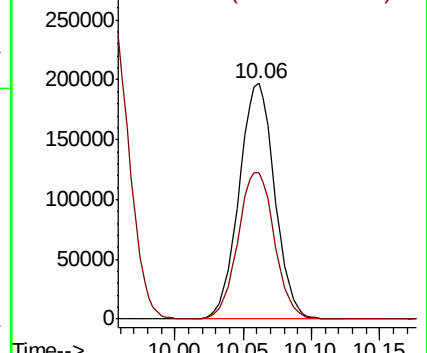
98 100

100 63.7 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN064194.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN064194.D (-2572) (-)



#64

Chlorobenzene

Concen: 158.907 ug/l

RT: 11.41 min Scan# 3006

Delta R.T. 0.00 min

Lab File: VN064194.D

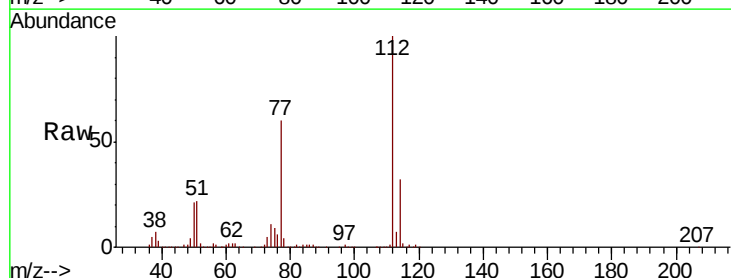
Acq: 20 Oct 2020 11:35

Tgt Ion: 112 Resp: 1433542

Ion Ratio Lower Upper

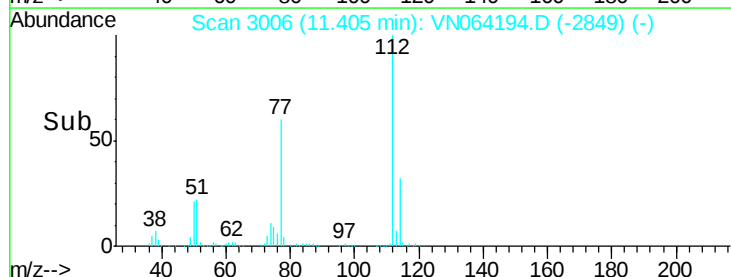
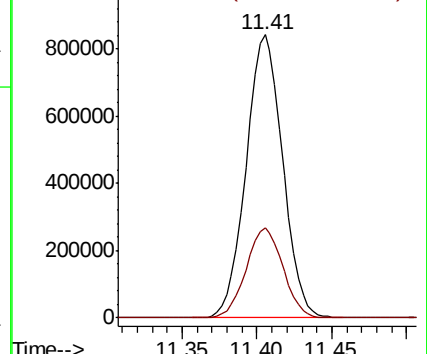
112 100

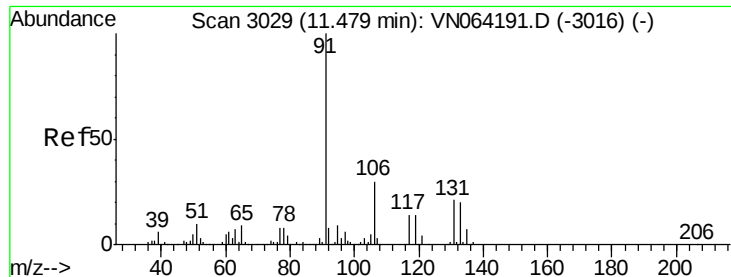
114 31.7 25.1 37.7



Abundance Ion 112.00 (111.70 to 112.70): VN064194.D (-2849) (-)

Ion 114.00 (113.70 to 114.70): VN064194.D (-2849) (-)





#65

1,1,1,2-Tetrachloroethane

Concen: 157.011 ug/l

RT: 11.48 min Scan# 3030

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

Instrument :

BNA\_N

ClientSampleId :

VSTDIC150

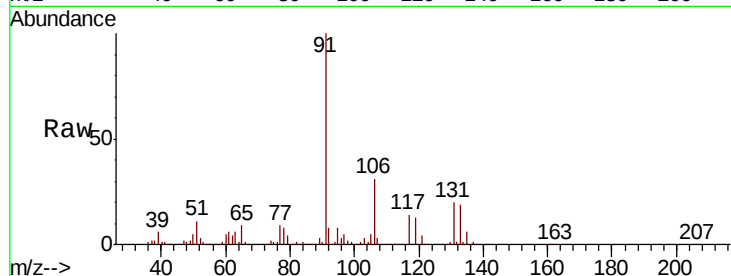
Tot Ion:131 Resp: 552095

Ion Ratio Lower Upper

131 100

133 97.2 0.0 193.0

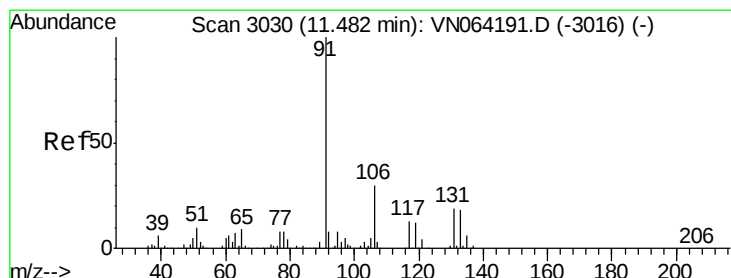
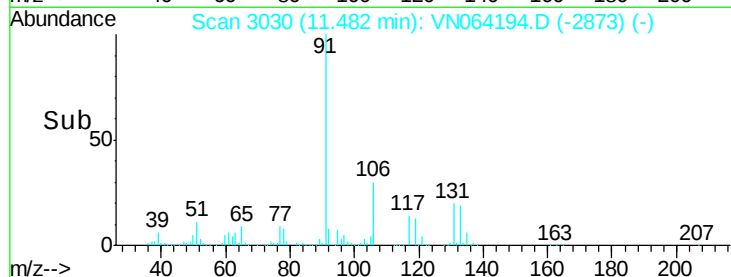
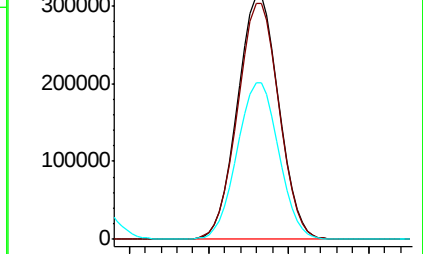
119 64.9 0.0 132.2



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: 159.242 ug/l

RT: 11.48 min Scan# 3030

Delta R.T. 0.00 min

Lab File: VN064194.D

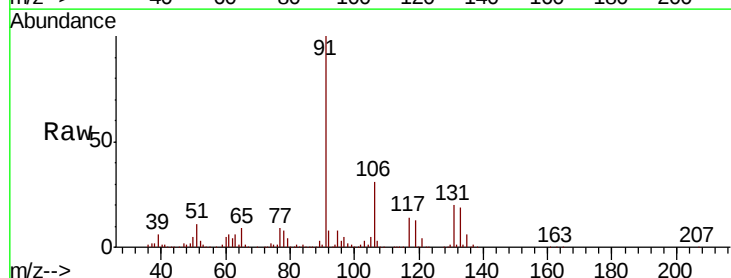
Acq: 20 Oct 2020 11:35

Tgt Ion: 91 Resp: 2619414

Ion Ratio Lower Upper

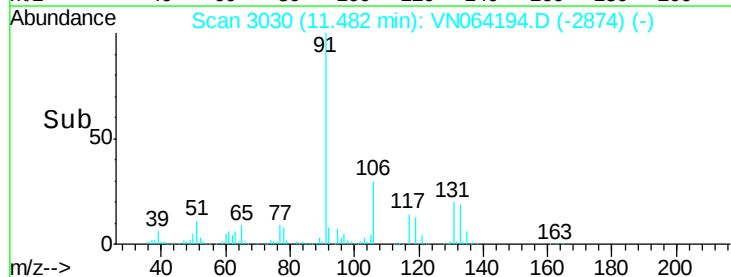
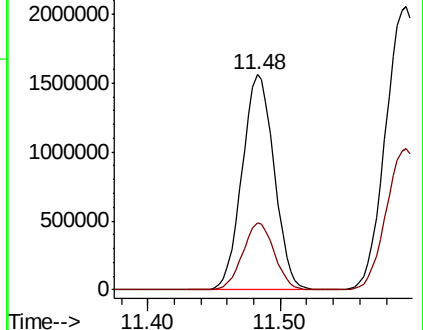
91 100

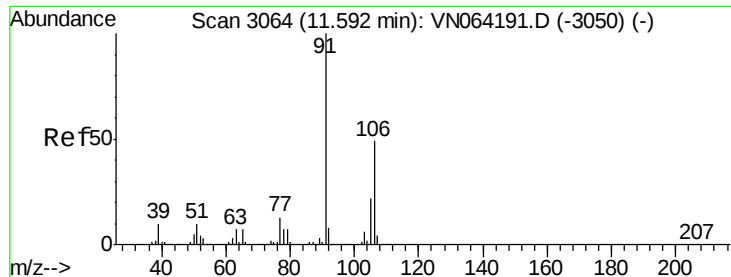
106 31.0 23.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V





#67

m/p-Xylenes

Concen: 326.516 ug/l

RT: 11.59 min Scan# 3065

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

Instrument :

BNA\_N

ClientSampleId :

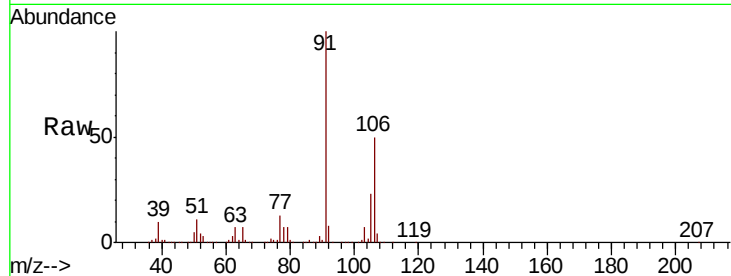
VSTDIC150

Tot Ion:106 Resp: 1985941

Ion Ratio Lower Upper

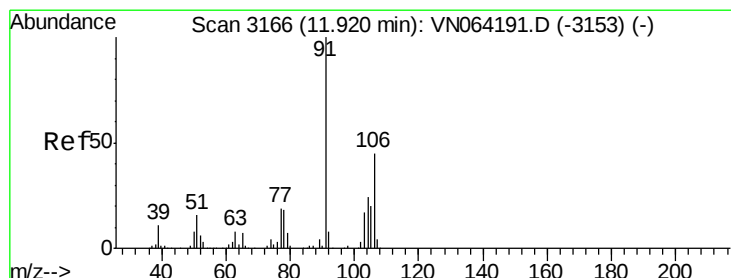
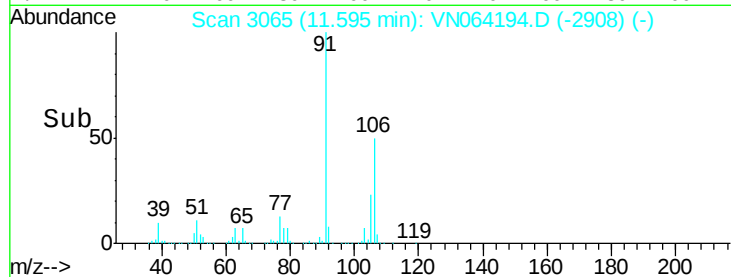
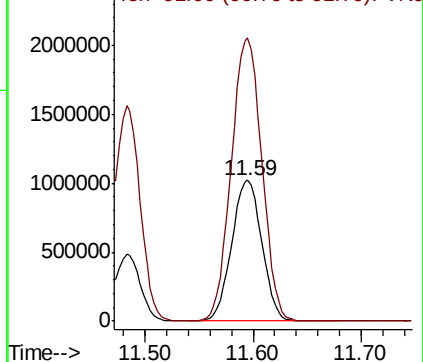
106 100

91 203.8 167.9 251.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#68

o-Xylene

Concen: 163.655 ug/l

RT: 11.92 min Scan# 3166

Delta R.T. 0.00 min

Lab File: VN064194.D

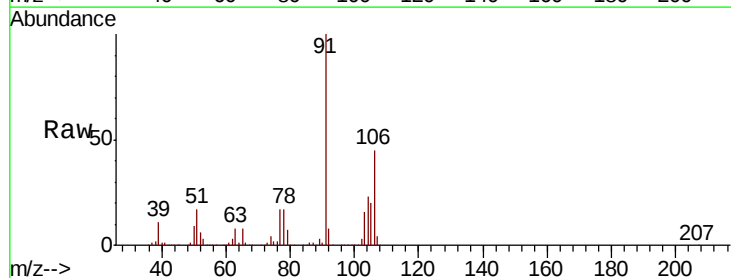
Acq: 20 Oct 2020 11:35

Tgt Ion:106 Resp: 952289

Ion Ratio Lower Upper

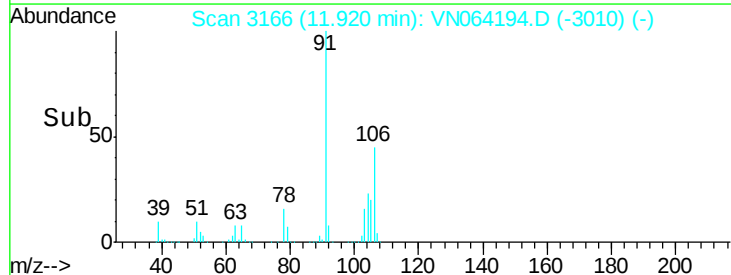
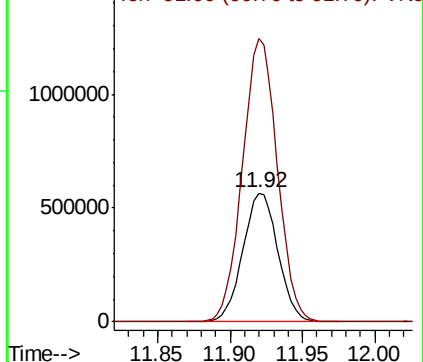
106 100

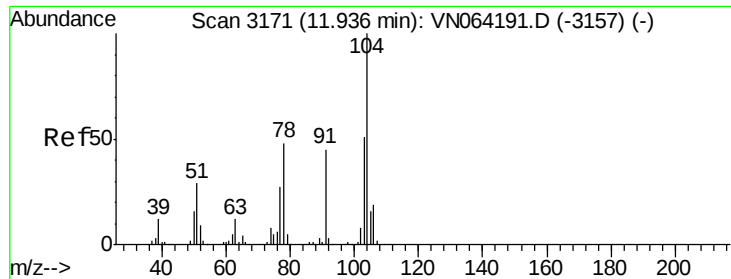
91 218.8 113.9 341.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN

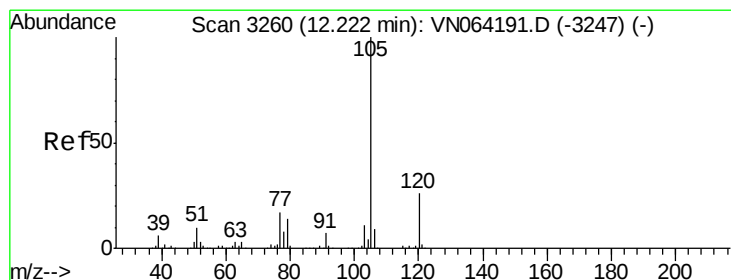
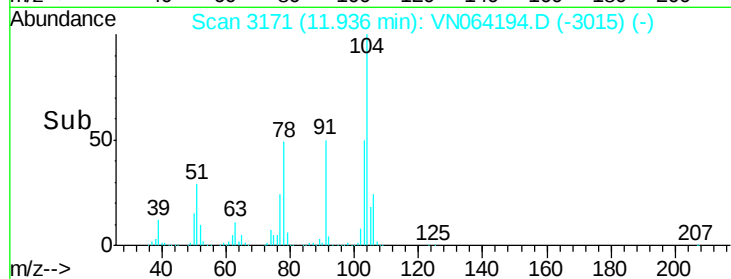
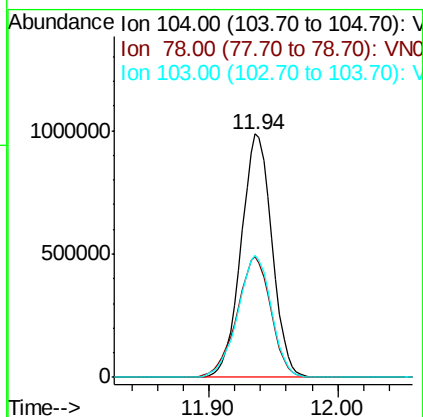
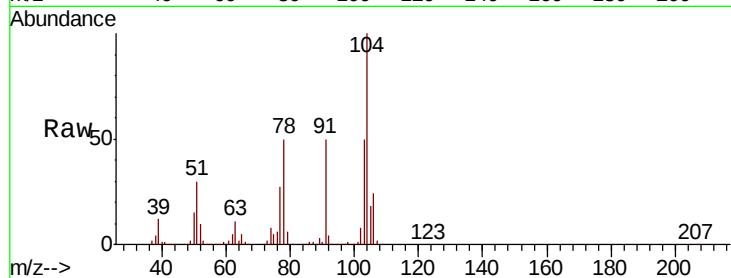




#69  
Stvrene  
Concen: 165.979 ug/l  
RT: 11.94 min Scan# 3171  
Delta R.T. 0.00 min  
Lab File: VN064194.D  
Acq: 20 Oct 2020 11:35

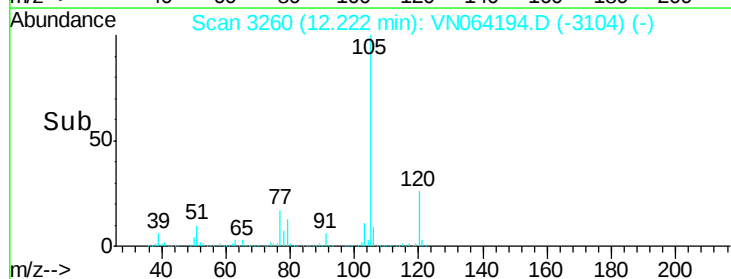
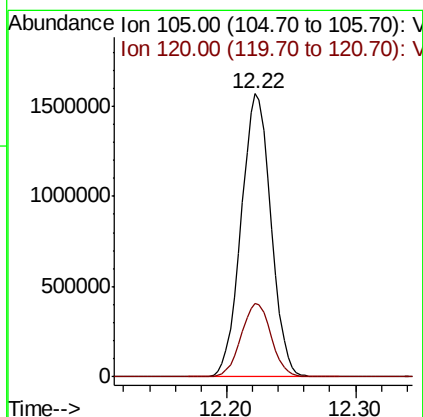
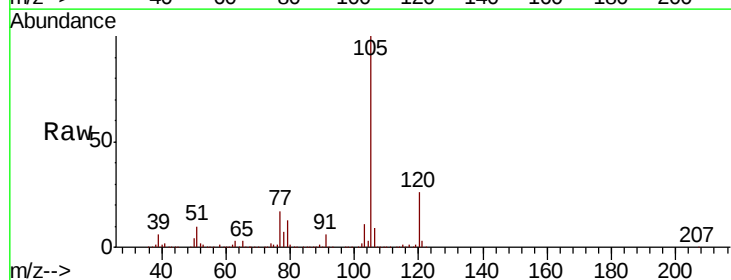
Instrument :  
BNA\_N  
ClientSampleId :  
VSTDIC150

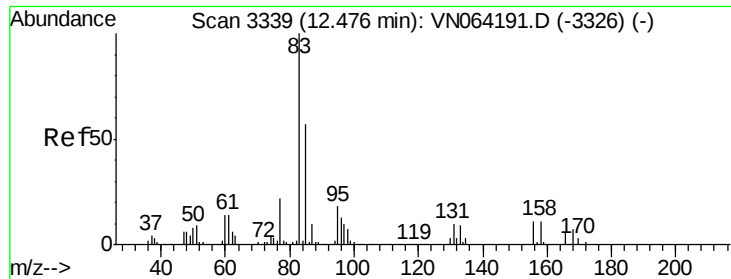
Tot Ion:104 Resp: 1648996  
Ion Ratio Lower Upper  
104 100  
78 54.3 43.6 65.4  
103 54.5 44.8 67.2



#70  
Isopropylbenzene  
Concen: 162.511 ug/l  
RT: 12.22 min Scan# 3260  
Delta R.T. 0.00 min  
Lab File: VN064194.D  
Acq: 20 Oct 2020 11:35

Tgt Ion:105 Resp: 2519165  
Ion Ratio Lower Upper  
105 100  
120 26.3 18.1 33.7

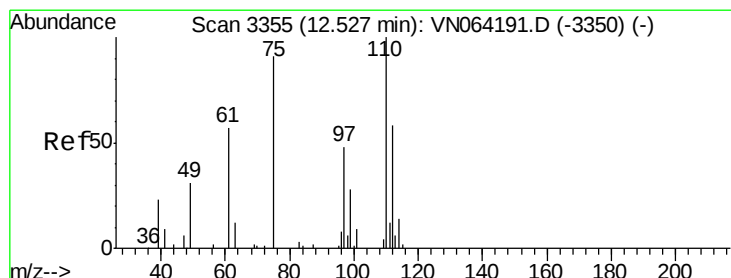
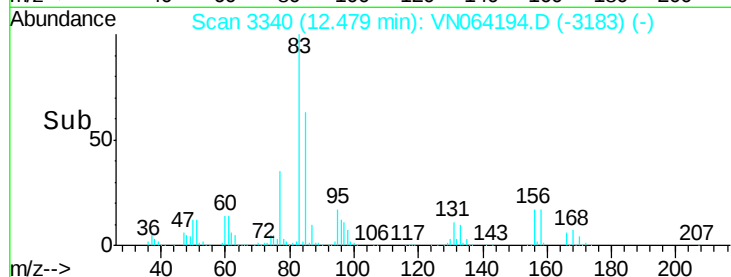
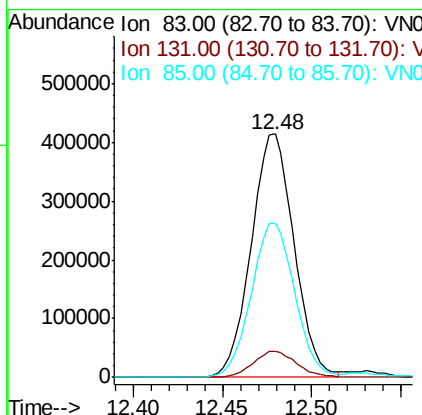
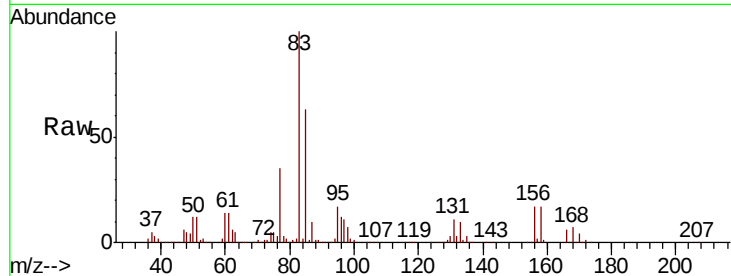




#71  
 1,1,2,2-Tetrachloroethane  
 Concen: 146.106 ug/l  
 RT: 12.48 min Scan# 3340  
 Delta R.T. 0.00 min  
 Lab File: VN064194.D  
 Acq: 20 Oct 2020 11:35

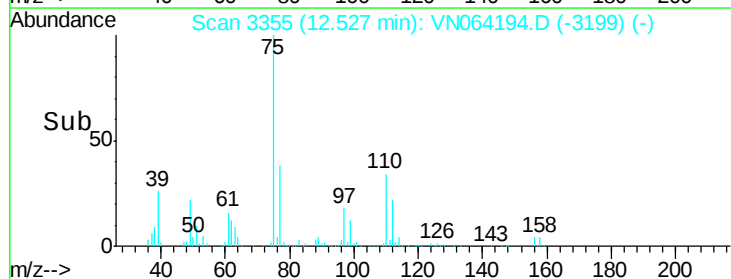
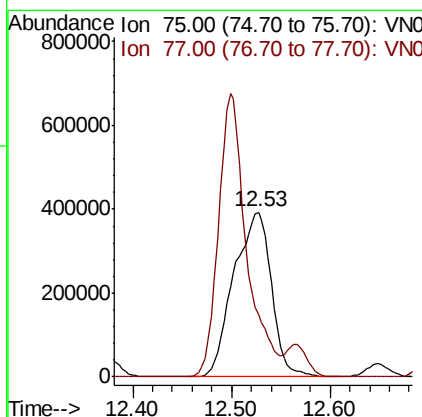
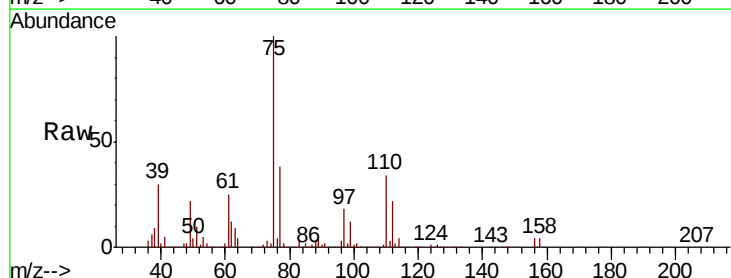
Instrument :  
 BNA\_N  
 ClientSampleId :  
 VSTDIC150

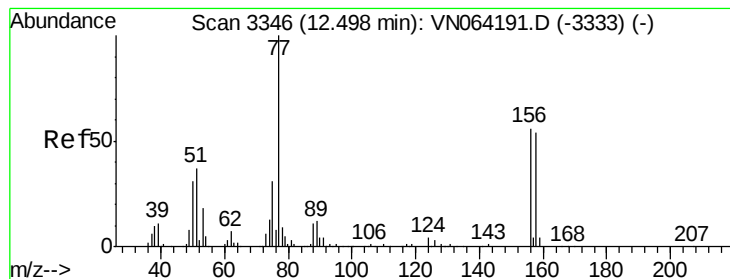
Tot Ion: 83 Resp: 695066  
 Ion Ratio Lower Upper  
 83 100  
 131 10.9 5.5 16.4  
 85 64.2 30.8 92.4



#72  
 1,2,3-Trichloropropane  
 Concen: 219.563 ug/l  
 RT: 12.53 min Scan# 3355  
 Delta R.T. 0.00 min  
 Lab File: VN064194.D  
 Acq: 20 Oct 2020 11:35

Tgt Ion: 75 Resp: 1043154  
 Ion Ratio Lower Upper  
 75 100  
 77 129.4 0.0 417.6





#73

Bromobenzene

Concen: 158.589 ug/l

RT: 12.50 min Scan# 3346

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

Instrument :

BNA\_N

ClientSampleId :

VSTDIC150

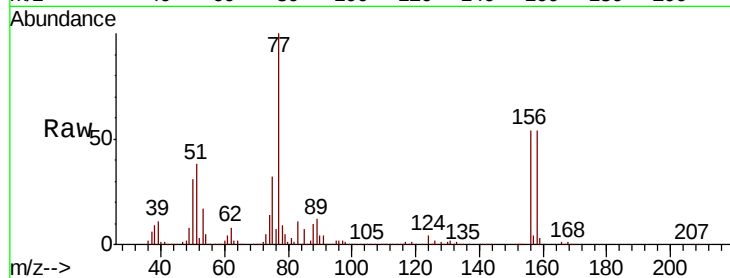
Tot Ion:156 Resp: 622591

Ion Ratio Lower Upper

156 100

77 216.9 0.0 429.8

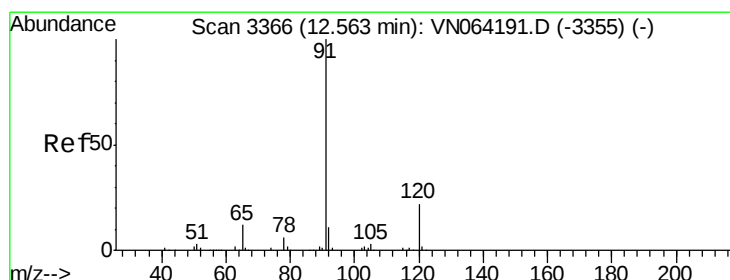
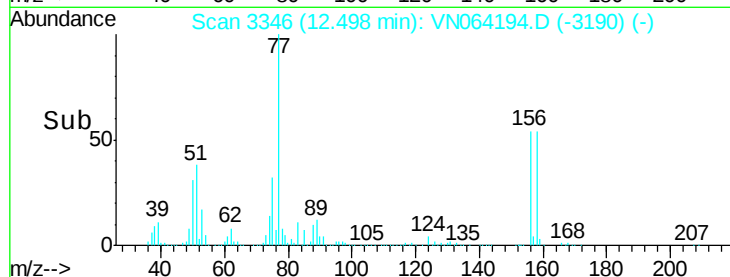
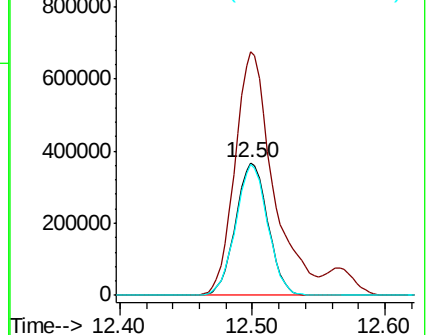
158 97.4 0.0 190.6



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 162.583 ug/l

RT: 12.57 min Scan# 3367

Delta R.T. 0.00 min

Lab File: VN064194.D

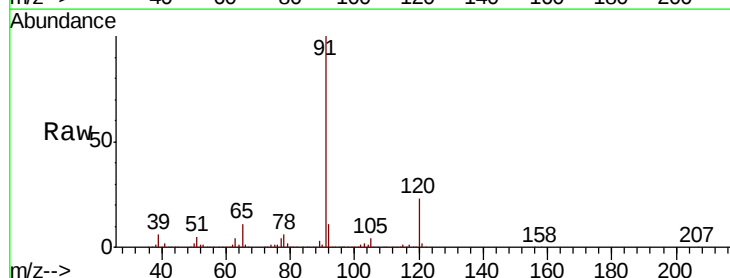
Acq: 20 Oct 2020 11:35

Tgt Ion: 91 Resp: 2932385

Ion Ratio Lower Upper

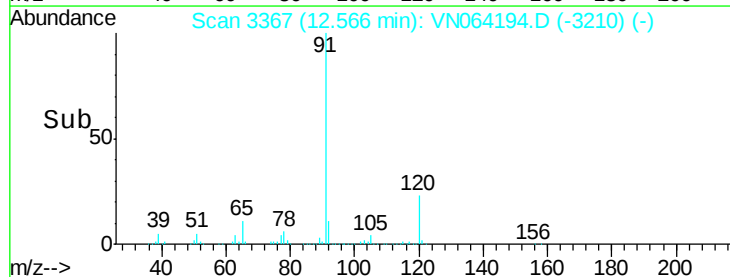
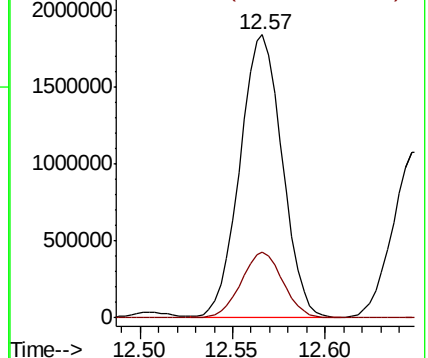
91 100

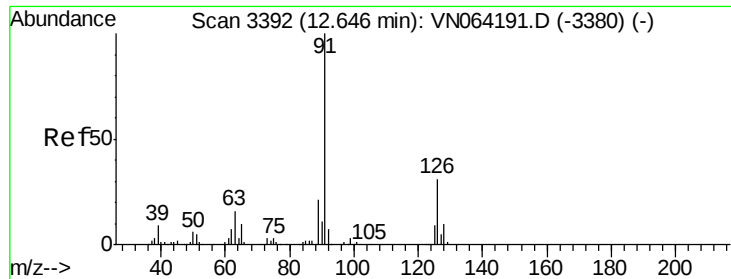
120 22.8 0.0 43.8



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 164.226 ug/l

RT: 12.65 min Scan# 3393

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

Instrument :

BNA\_N

ClientSampleId :

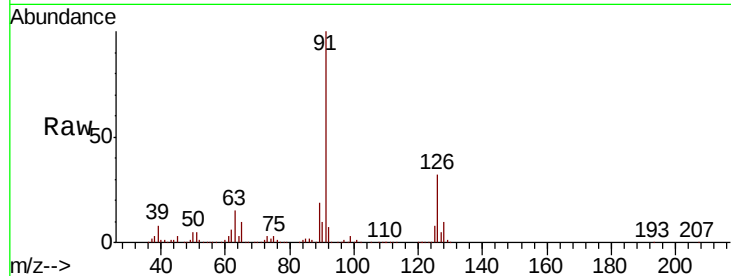
VSTDIC150

Tot Ion: 91 Resp: 1808451

Ion Ratio Lower Upper

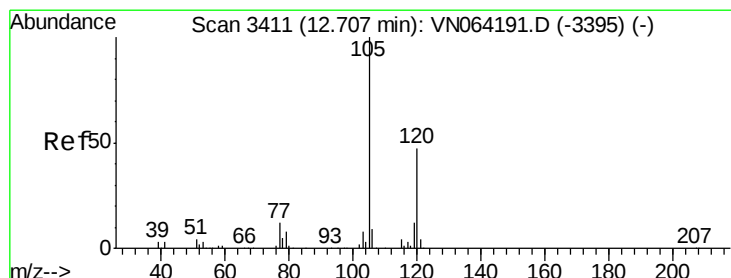
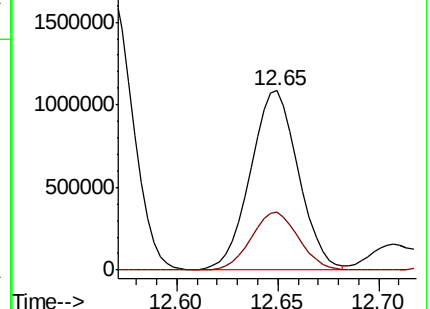
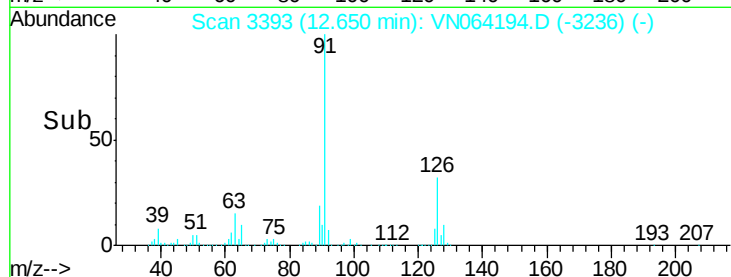
91 100

126 32.2 0.0 62.4



Abundance Ion 91.00 (90.70 to 91.70): VN064194.D (-3393) (-)

Ion 126.00 (125.70 to 126.70): VN064194.D (-3393) (-)



#76

1,3,5-Trimethylbenzene

Concen: 166.842 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. 0.00 min

Lab File: VN064194.D

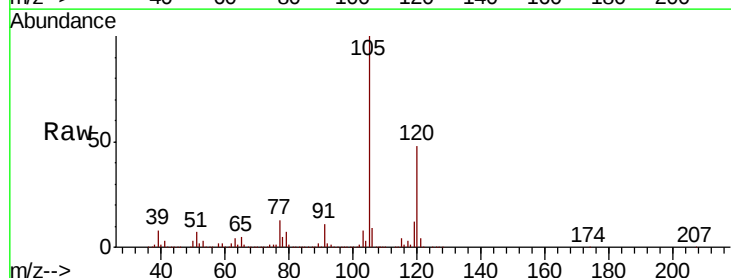
Acq: 20 Oct 2020 11:35

Tgt Ion:105 Resp: 2183430

Ion Ratio Lower Upper

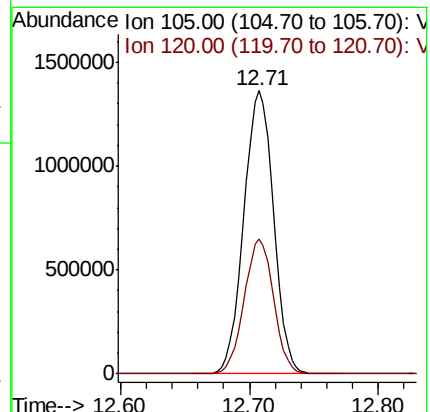
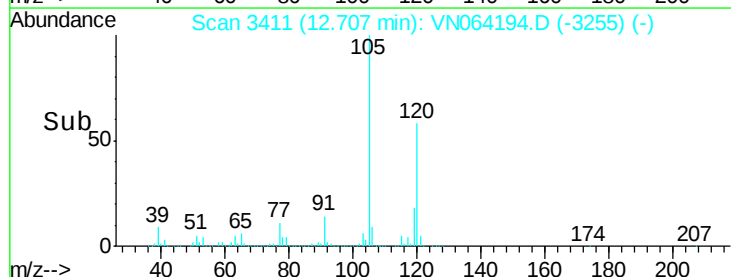
105 100

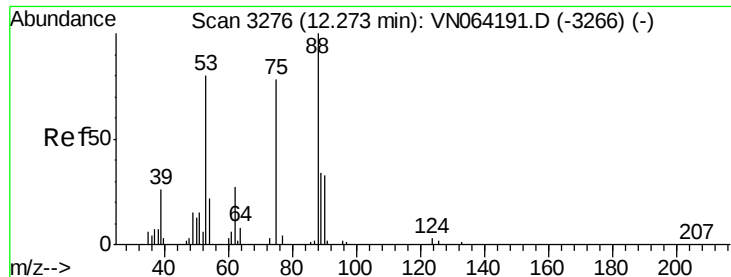
120 47.0 0.0 95.0



Abundance Ion 105.00 (104.70 to 105.70): VN064194.D (-3411) (-)

Ion 120.00 (119.70 to 120.70): VN064194.D (-3411) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 168.795 ug/l

RT: 12.27 min Scan# 3276

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

Instrument :

BNA\_N

ClientSampleId :

VSTDIC150

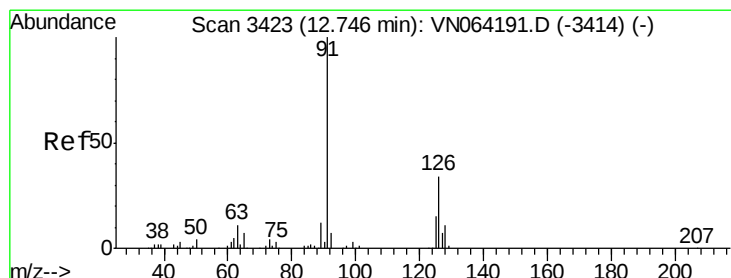
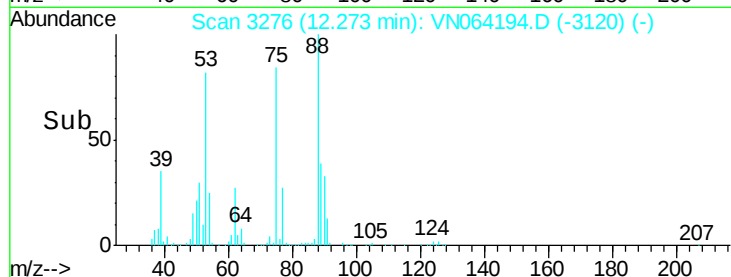
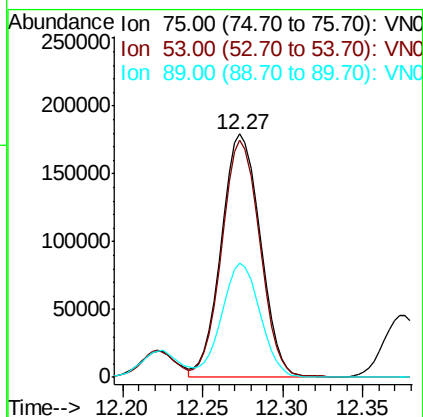
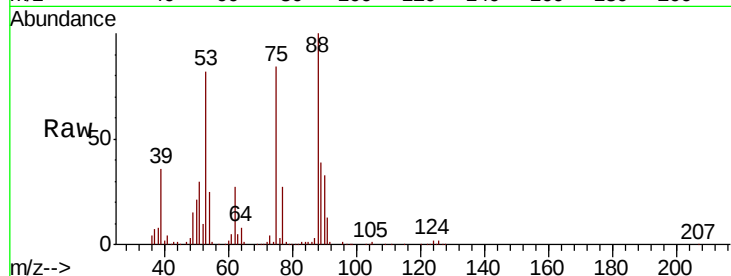
Tot Ion: 75 Resp: 299319

Ion Ratio Lower Upper

75 100

53 97.3 51.4 154.2

89 47.1 23.8 71.5



#78

4-Chlorotoluene

Concen: 163.337 ug/l

RT: 12.75 min Scan# 3423

Delta R.T. 0.00 min

Lab File: VN064194.D

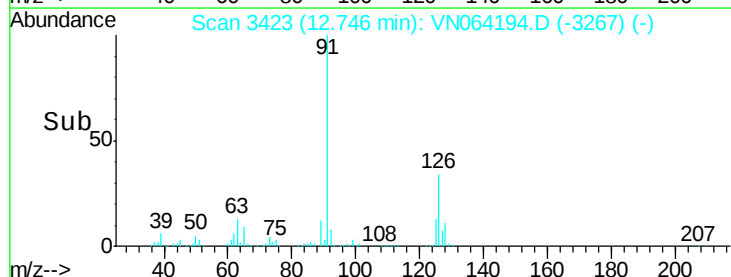
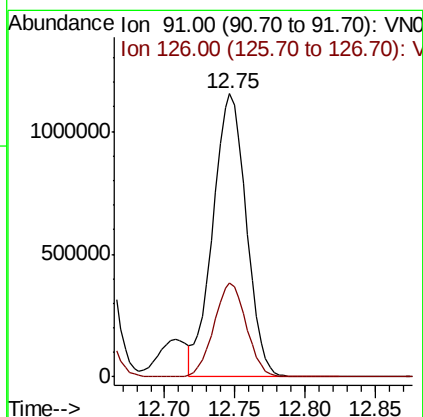
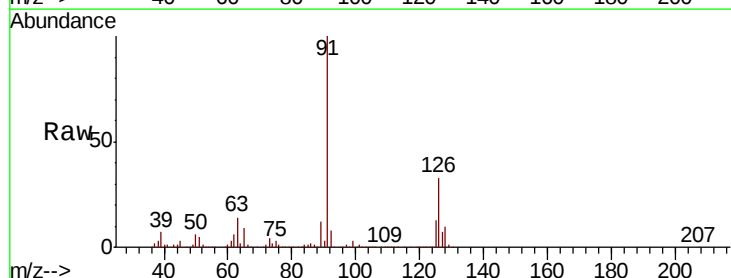
Acq: 20 Oct 2020 11:35

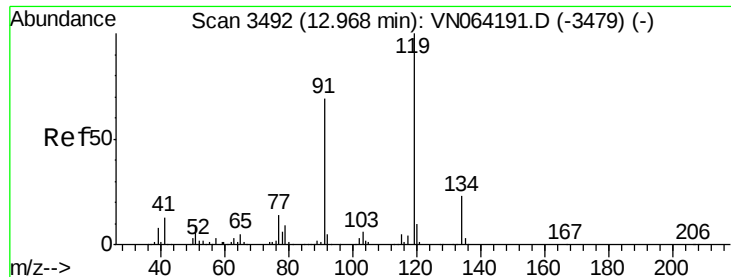
Tgt Ion: 91 Resp: 1895958

Ion Ratio Lower Upper

91 100

126 32.2 0.0 63.2

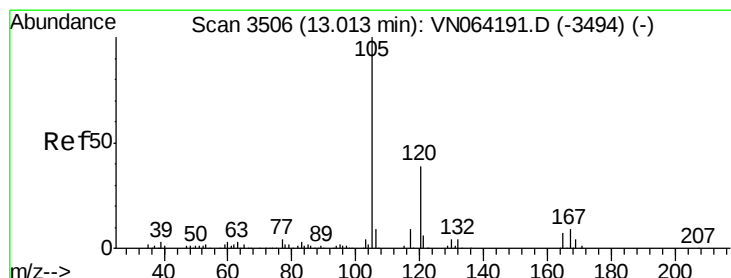
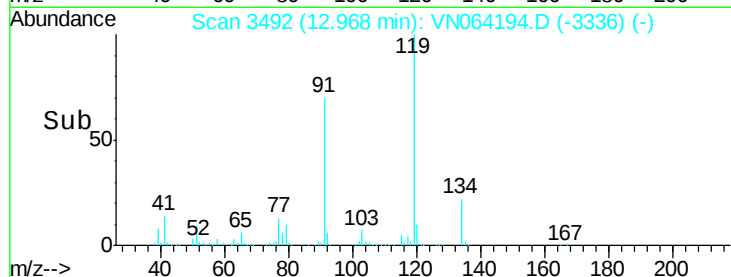
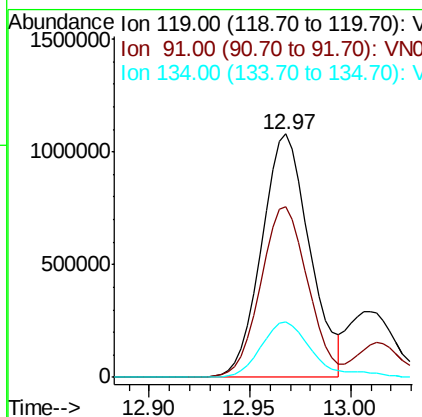
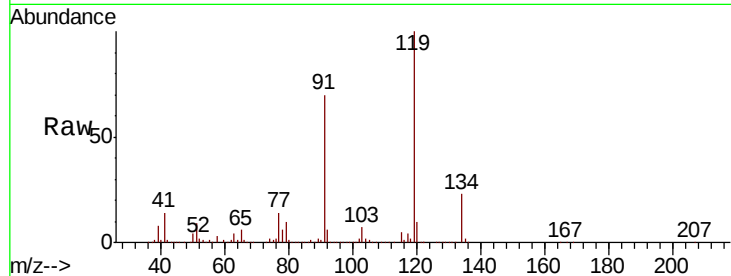




#79  
tert-butylbenzene  
Concen: 169.185 ug/l  
RT: 12.97 min Scan# 3492  
Delta R.T. 0.00 min  
Lab File: VN064194.D  
Acq: 20 Oct 2020 11:35

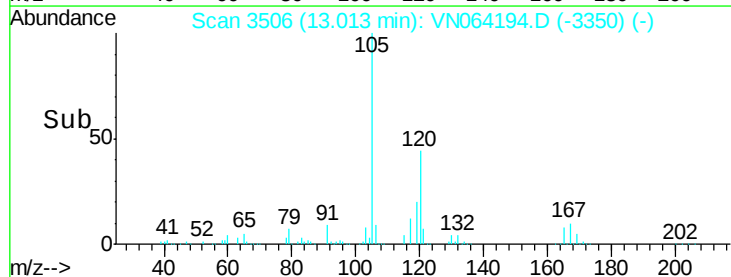
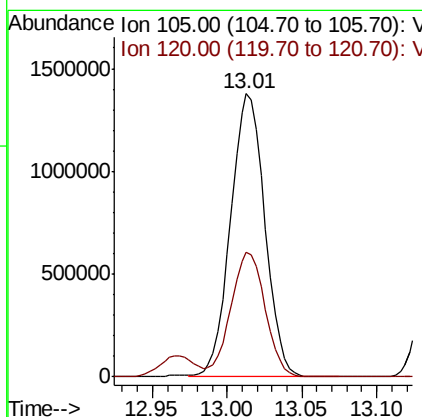
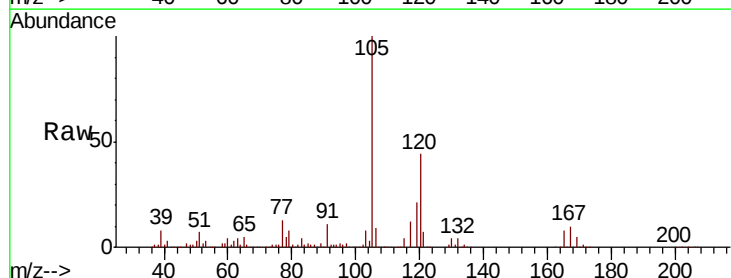
Instrument :  
BNA\_N  
ClientSampleId :  
VSTDIC150

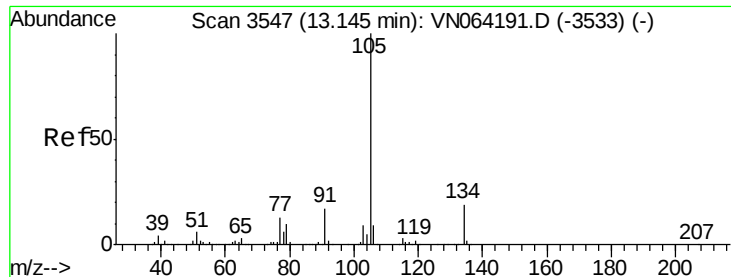
Tot Ion:119 Resp: 1786684  
Ion Ratio Lower Upper  
119 100  
91 69.3 0.0 143.2  
134 23.0 0.0 49.2



#80  
1,2,4-Trimethylbenzene  
Concen: 166.618 ug/l  
RT: 13.01 min Scan# 3506  
Delta R.T. 0.00 min  
Lab File: VN064194.D  
Acq: 20 Oct 2020 11:35

Tgt Ion:105 Resp: 2192412  
Ion Ratio Lower Upper  
105 100  
120 44.4 0.0 85.8

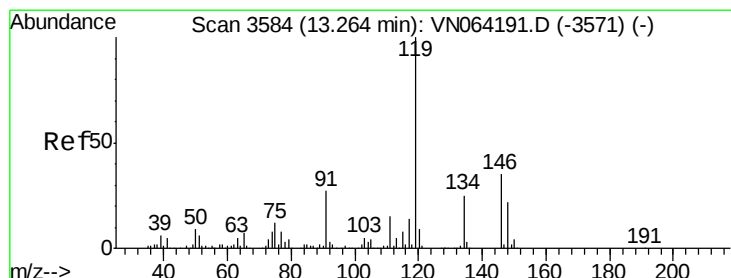
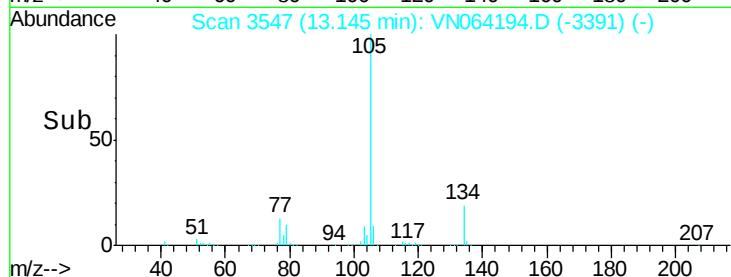
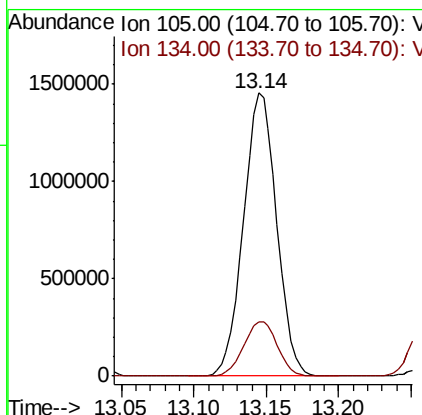
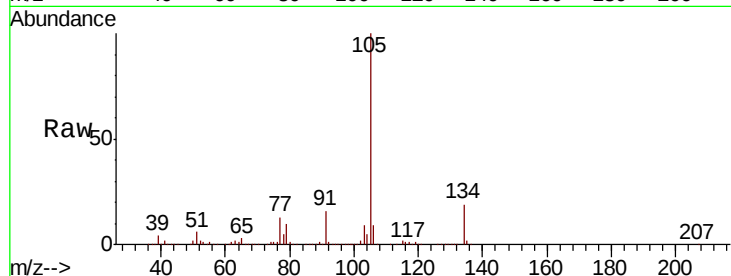




#81  
 sec-Butylbenzene  
 Concen: 167.029 ug/l  
 RT: 13.14 min Scan# 3547  
 Delta R.T. 0.00 min  
 Lab File: VN064194.D  
 Acq: 20 Oct 2020 11:35

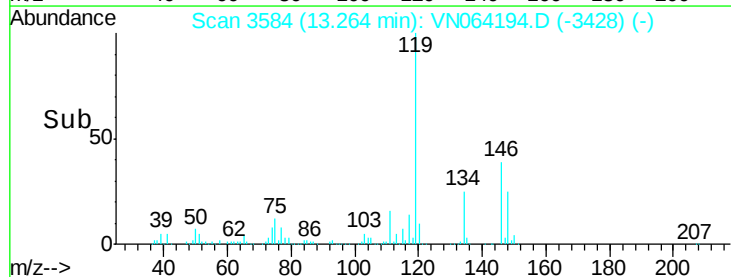
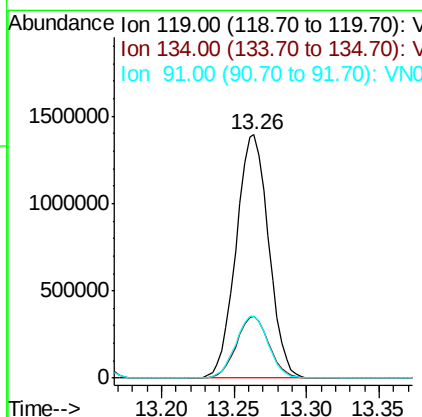
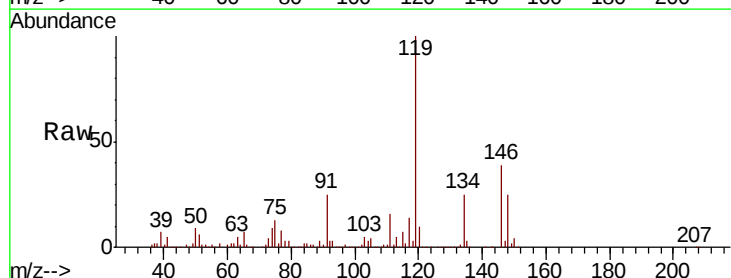
Instrument :  
 BNA\_N  
 ClientSampleId :  
 VSTDIC150

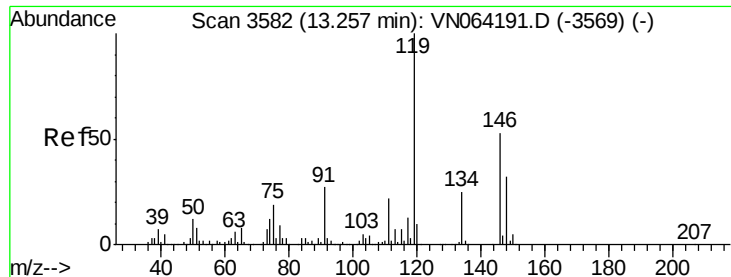
Tot Ion:105 Resp: 2312264  
 Ion Ratio Lower Upper  
 105 100  
 134 19.6 0.0 38.4



#82  
 p-Isopropyltoluene  
 Concen: 172.066 ug/l  
 RT: 13.26 min Scan# 3584  
 Delta R.T. 0.00 min  
 Lab File: VN064194.D  
 Acq: 20 Oct 2020 11:35

Tgt Ion:119 Resp: 2172281  
 Ion Ratio Lower Upper  
 119 100  
 134 25.4 0.0 51.4  
 91 25.5 0.0 52.8

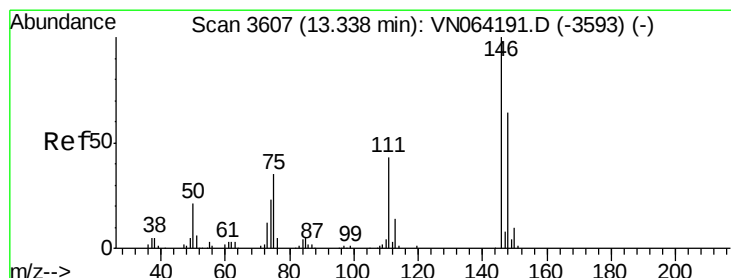
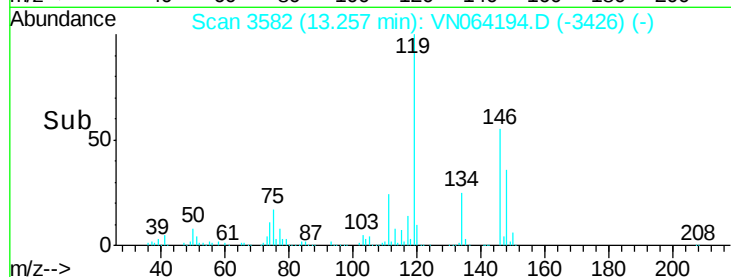
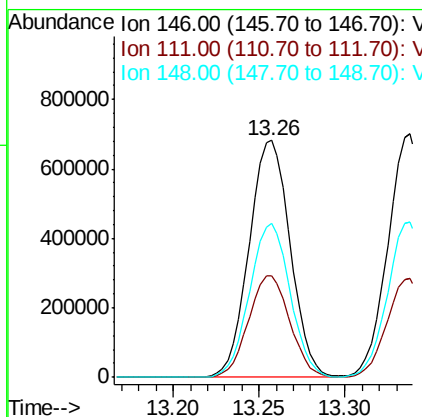
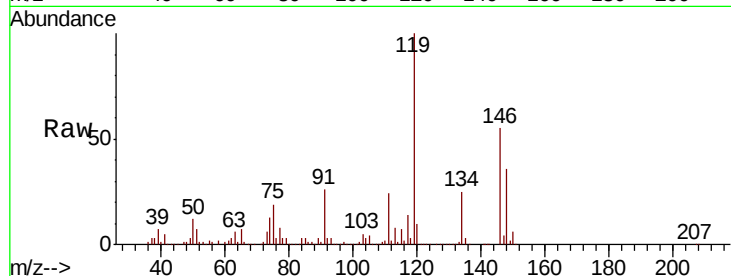




#83  
 1,3-Dichlorobenzene  
 Concen: 163.494 ug/l  
 RT: 13.26 min Scan# 3582  
 Delta R.T. 0.00 min  
 Lab File: VN064194.D  
 Acq: 20 Oct 2020 11:35

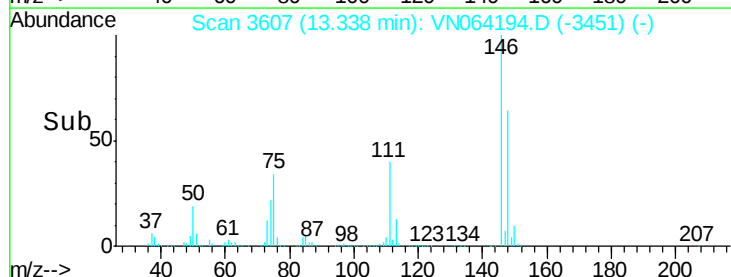
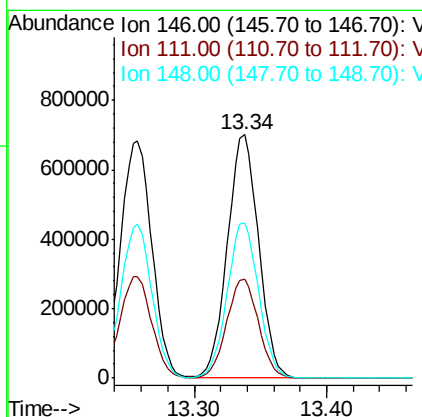
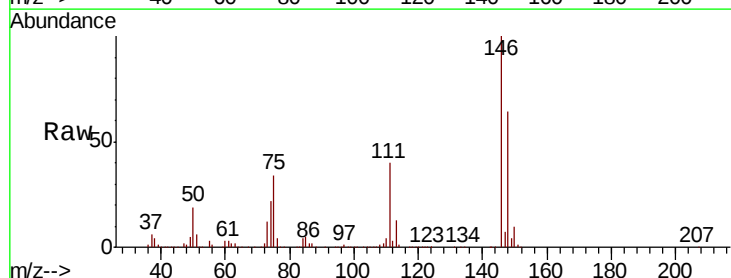
Instrument :  
 BNA\_N  
 ClientSampleId :  
 VSTDIC150

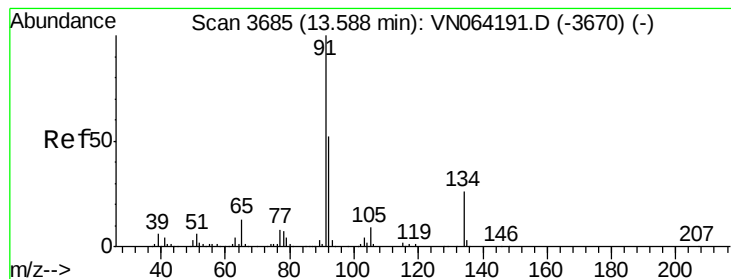
Tot Ion:146 Resp: 1131551  
 Ion Ratio Lower Upper  
 146 100  
 111 43.3 21.8 65.4  
 148 64.3 31.4 94.2



#84  
 1,4-Dichlorobenzene  
 Concen: 165.358 ug/l  
 RT: 13.34 min Scan# 3607  
 Delta R.T. 0.00 min  
 Lab File: VN064194.D  
 Acq: 20 Oct 2020 11:35

Tgt Ion:146 Resp: 1145343  
 Ion Ratio Lower Upper  
 146 100  
 111 41.2 20.9 62.8  
 148 64.2 30.9 92.7





#85

n-Butylbenzene

Concen: 175.770 ug/l

RT: 13.59 min Scan# 3685

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

Instrument :

BNA\_N

ClientSampleId :

VSTDIC150

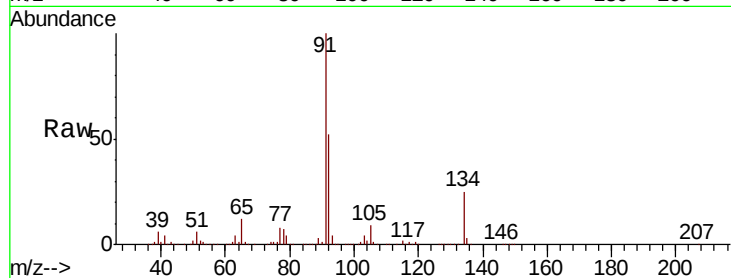
Tot Ion: 91 Resp: 1939185

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 52.1  | 0.0   | 104.8 |
| 134 | 25.4  | 0.0   | 49.8  |

91 100

92 52.1 0.0 104.8

134 25.4 0.0 49.8



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

Ion 134.00 (133.70 to 134.70): VN0

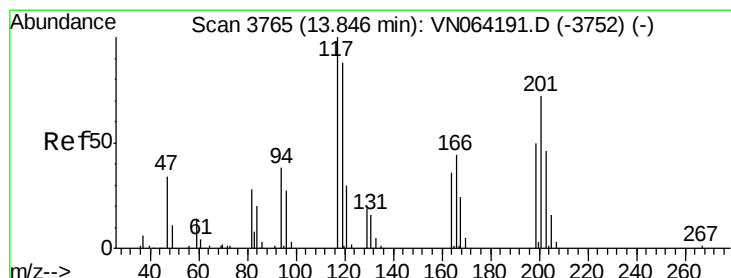
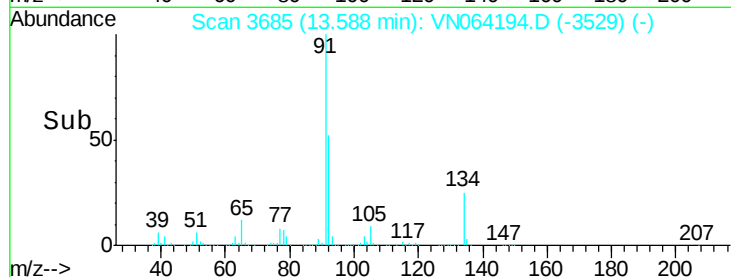
13.59

1000000

500000

0

Time--> 13.50 13.60



#86

Hexachloroethane

Concen: 173.848 ug/l

RT: 13.85 min Scan# 3766

Delta R.T. 0.00 min

Lab File: VN064194.D

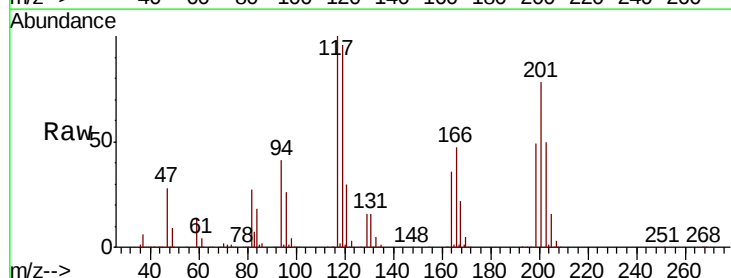
Acq: 20 Oct 2020 11:35

Tgt Ion: 117 Resp: 378010

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 201 | 79.2  | 37.5  | 112.3 |

117 100

201 79.2 37.5 112.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

13.85

250000

200000

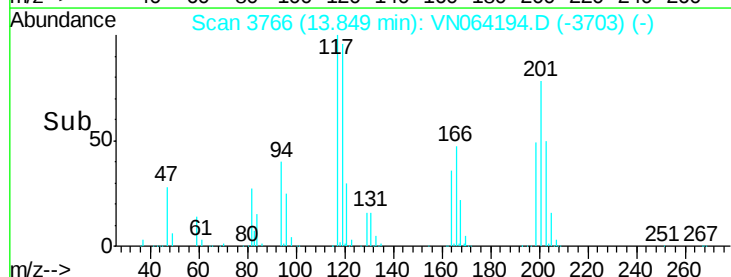
150000

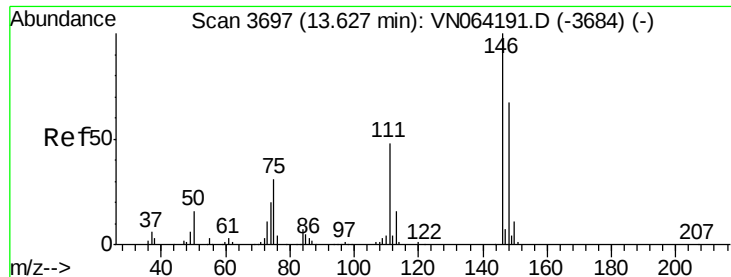
100000

50000

0

Time--> 13.80 13.85 13.90





#87

1,2-Dichlorobenzene

Concen: 162.860 ug/l

RT: 13.63 min Scan# 3697

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

Instrument :

BNA\_N

ClientSampleId :

VSTDIC150

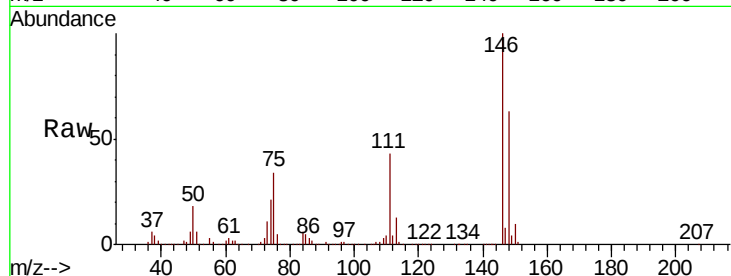
Tot Ion:146 Resp: 1098200

Ion Ratio Lower Upper

146 100

111 44.0 22.6 67.8

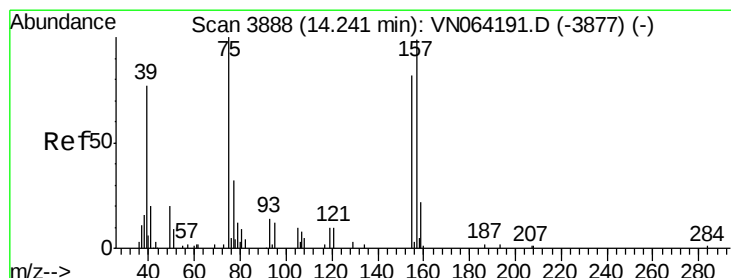
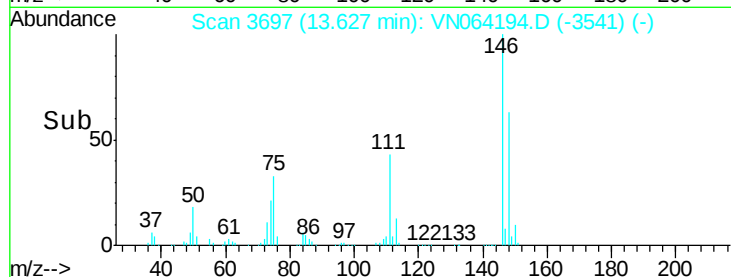
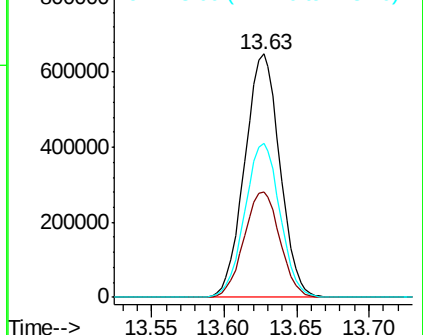
148 63.2 32.6 97.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#88

1,2-Dibromo-3-Chloropropane

Concen: 155.669 ug/l

RT: 14.24 min Scan# 3888

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

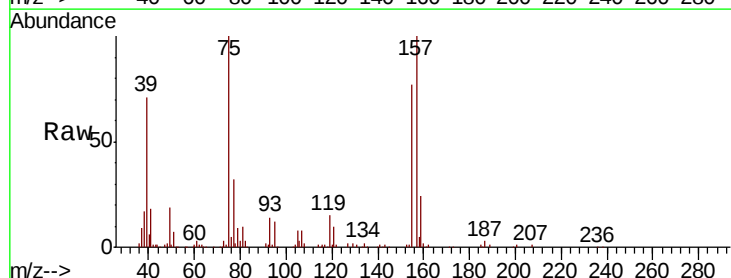
Tgt Ion: 75 Resp: 177687

Ion Ratio Lower Upper

75 100

155 75.2 61.1 91.7

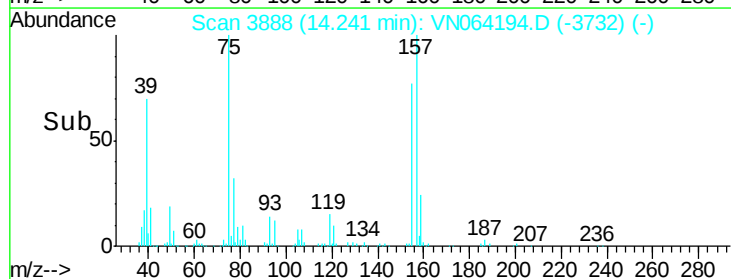
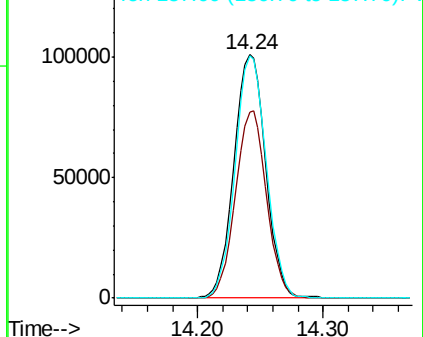
157 97.6 76.5 114.7

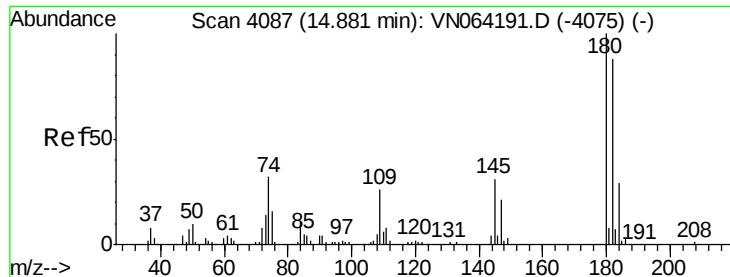


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

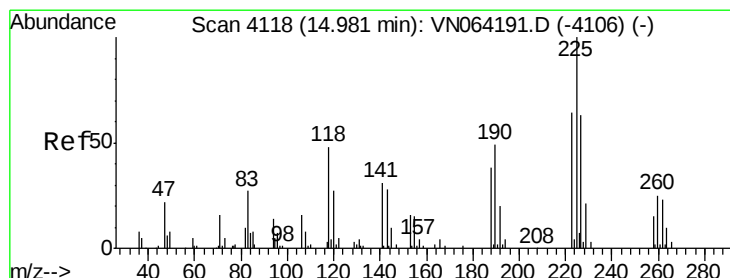
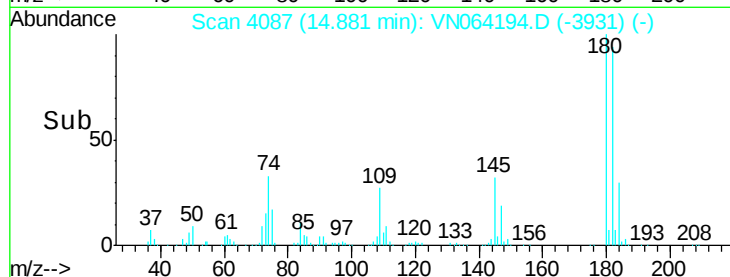
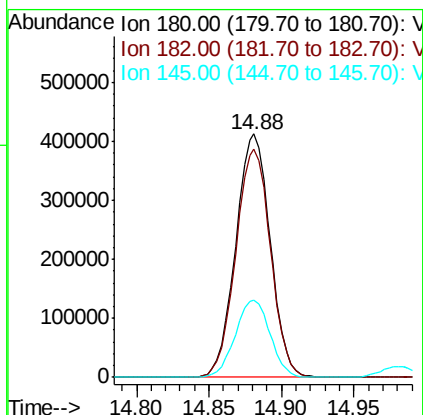
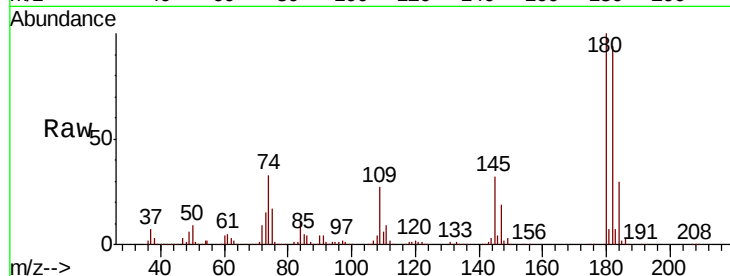




#89  
1,2,4-Trichlorobenzene  
Concen: 189.042 ug/l  
RT: 14.88 min Scan# 4087  
Delta R.T. 0.00 min  
Lab File: VN064194.D  
Acq: 20 Oct 2020 11:35

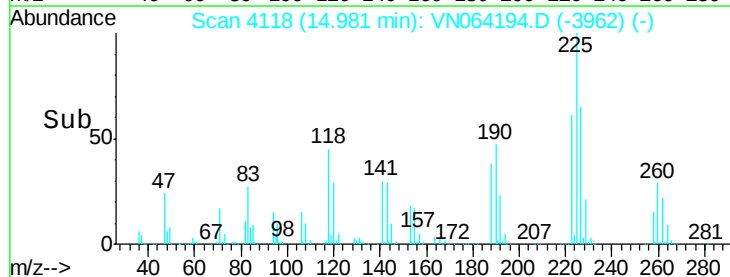
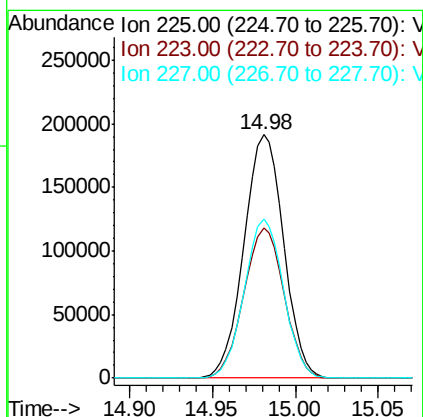
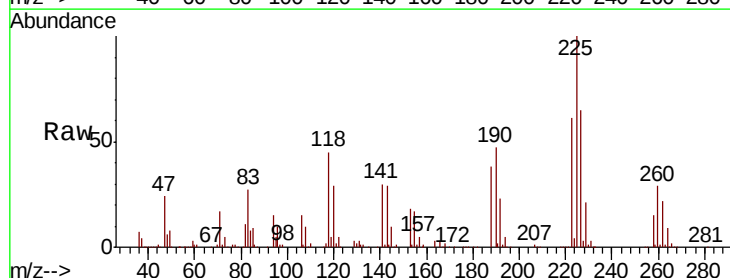
Instrument :  
BNA\_N  
ClientSampleId :  
VSTDIC150

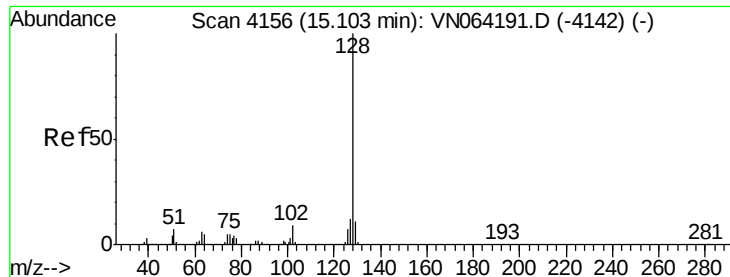
Tot Ion:180 Resp: 680388  
Ion Ratio Lower Upper  
180 100  
182 94.5 73.0 109.4  
145 32.1 24.3 36.5



#90  
Hexachlorobutadiene  
Concen: 171.009 ug/l  
RT: 14.98 min Scan# 4118  
Delta R.T. 0.00 min  
Lab File: VN064194.D  
Acq: 20 Oct 2020 11:35

Tgt Ion:225 Resp: 318441  
Ion Ratio Lower Upper  
225 100  
223 62.7 0.0 127.0  
227 64.5 0.0 129.4





#91

Naphthalene

Concen: 190.518 ug/l

RT: 15.10 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

Instrument :

BNA\_N

ClientSampleId :

VSTDIC150

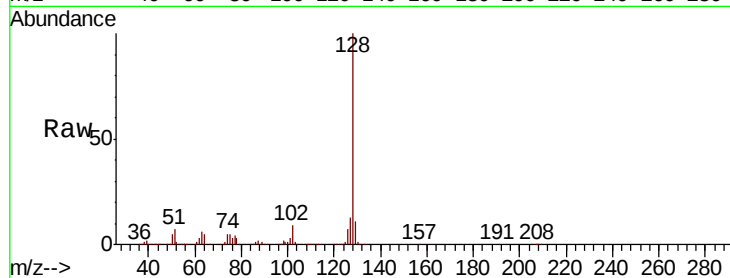
Tot Ion:128 Resp: 2064382

Ion Ratio Lower Upper

128 100

127 12.9 10.1 15.1

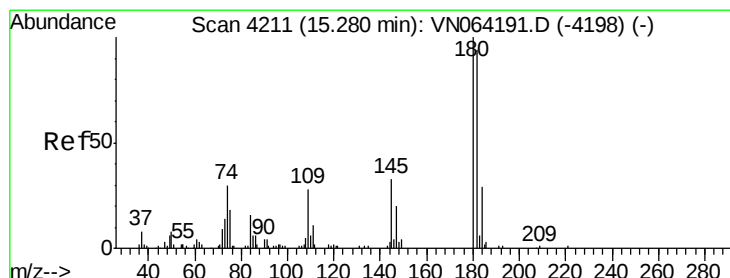
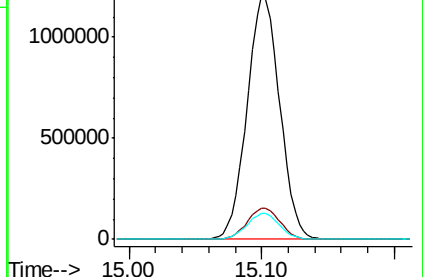
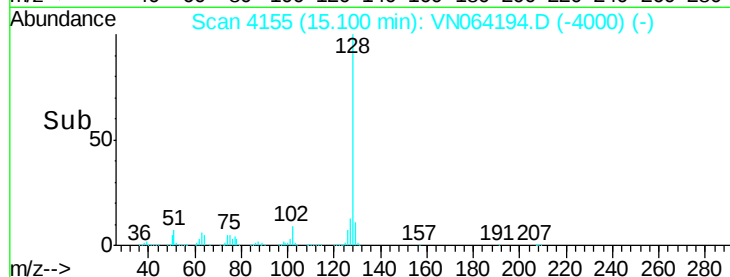
129 10.7 8.7 13.1



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: 189.638 ug/l

RT: 15.28 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN064194.D

Acq: 20 Oct 2020 11:35

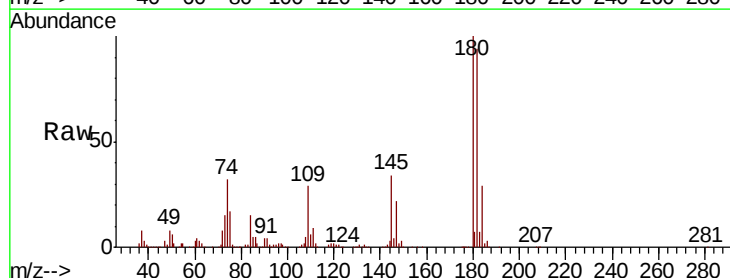
Tgt Ion:180 Resp: 655757

Ion Ratio Lower Upper

180 100

182 95.0 0.0 190.0

145 33.6 0.0 66.6



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

