

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071420\  
 Data File : VN062524.D  
 Acq On : 14 Jul 2020 12:00  
 Operator : JC/MD  
 Sample : VN0714WBSD01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0714WBSD01

Quant Time: Jul 15 00:50:31 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071320W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Jul 14 00:52:57 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.15  | 128  | 44862    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.55  | 114  | 239638   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.38 | 117  | 218758   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 7.99   | 65    | 111831   | 29.02    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 96.73%  |
| 60) 4-Bromofluorobenzene  | 12.37  | 95    | 109825   | 29.50    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 98.33%  |
| 63) Toluene-d8            | 10.06  | 98    | 313447   | 30.32    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 101.07% |

## Target Compounds

|                               |      |     |        |        | Ovalue     |
|-------------------------------|------|-----|--------|--------|------------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 40657  | 15.355 | ug/l 95    |
| 3) Chloromethane              | 2.04 | 50  | 60044  | 15.704 | ug/l 98    |
| 4) Vinyl Chloride             | 2.16 | 62  | 51228  | 15.328 | ug/l 95    |
| 5) Bromomethane               | 2.53 | 94  | 23590  | 14.228 | ug/l 96    |
| 6) Chloroethane               | 2.67 | 64  | 25041  | 15.220 | ug/l 97    |
| 7) Trichlorofluoromethane     | 2.99 | 101 | 61142  | 15.609 | ug/l 99    |
| 8) Diethyl Ether              | 3.37 | 74  | 29353  | 15.588 | ug/l 97    |
| 9) 1,1,2-Trichlorotrifluoroet | 3.72 | 101 | 38239  | 15.101 | ug/l 98    |
| 10) 1,1-Dichloroethene        | 3.70 | 96  | 40255  | 15.582 | ug/l 91    |
| 11) Methyl Iodide             | 3.91 | 142 | 51130  | 16.162 | ug/l 97    |
| 12) Methyl Acetate            | 4.28 | 43  | 57894  | 16.710 | ug/l 98    |
| 13) Acrolein                  | 3.57 | 56  | 48289  | 93.284 | ug/l 94    |
| 14) Acrylonitrile             | 4.93 | 53  | 132640 | 82.315 | ug/l 97    |
| 15) Acetone                   | 3.77 | 58  | 33955  | 68.644 | ug/l 93    |
| 16) Carbon Disulfide          | 4.01 | 76  | 127344 | 15.126 | ug/l 99    |
| 17) Allyl chloride            | 4.28 | 41  | 88076  | 16.031 | ug/l 98    |
| 18) Methylene Chloride        | 4.50 | 84  | 51417  | 16.175 | ug/l 96    |
| 19) trans-1,2-Dichloroethene  | 4.99 | 96  | 43898  | 15.353 | ug/l 95    |
| 20) Diisopropyl ether         | 5.90 | 45  | 183774 | 16.271 | ug/l 98    |
| 21) 1,1-Dichloroethane        | 5.80 | 63  | 95105  | 15.927 | ug/l 98    |
| 22) cis-1,2-Dichloroethene    | 6.79 | 96  | 51647  | 16.017 | ug/l 98    |
| 23) tert-Butyl Alcohol        | 4.73 | 59  | 46127  | 85.538 | ug/l # 100 |
| 24) Methyl tert-Butyl Ether   | 5.00 | 73  | 150105 | 15.760 | ug/l 99    |
| 25) Chloroform                | 7.33 | 83  | 87887  | 16.049 | ug/l 99    |
| 26) Cyclohexane               | 7.61 | 56  | 77820  | 14.786 | ug/l # 98  |
| 29) 1,1-Dichloropropene       | 7.75 | 75  | 63813  | 15.699 | ug/l 99    |
| 30) 2-Butanone                | 6.79 | 43  | 178613 | 82.854 | ug/l 98    |
| 31) 2,2-Dichloropropane       | 6.78 | 77  | 72649  | 15.851 | ug/l # 92  |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97  | 72371  | 16.565 | ug/l 99    |
| 33) Carbon Tetrachloride      | 7.73 | 117 | 61803  | 16.319 | ug/l 98    |
| 34) Benzene                   | 8.00 | 78  | 202249 | 16.748 | ug/l 98    |
| 35) Methacrylonitrile         | 7.12 | 41  | 28968  | 15.298 | ug/l 97    |
| 36) 1,2-Dichloroethane        | 8.09 | 62  | 73806  | 17.004 | ug/l 99    |
| 37) Trichloroethene           | 8.80 | 130 | 45054  | 16.610 | ug/l 99    |
| 38) Methylcyclohexane         | 9.05 | 83  | 69380  | 15.215 | ug/l 99    |
| 39) 1,2-Dichloropropane       | 9.09 | 63  | 58498  | 17.003 | ug/l 96    |
| 40) Dibromomethane            | 9.18 | 93  | 33898  | 17.096 | ug/l 97    |

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 Operator : JC/MD  
 Sample : VN0714WBSD01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0714WBSD01

Quant Time: Jul 15 00:50:31 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071320W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Jul 14 00:52:57 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| -----                          |       |      |          |         |        |          |
| 41) Bromodichloromethane       | 9.37  | 83   | 71134    | 16.915  | ug/l   | 95       |
| 42) Vinyl Acetate              | 5.84  | 43   | 766519   | 85.567  | ug/l # | 89       |
| 43) Ethyl Acetate              | 6.88  | 43   | 77302    | 17.836  | ug/l   | 94       |
| 44) Isopropyl Acetate          | 8.13  | 43   | 123192   | 16.941  | ug/l   | 98       |
| 45) 1,4-Dioxane                | 9.17  | 88   | 18080    | 363.470 | ug/l   | 96       |
| 46) Methyl methacrylate        | 9.17  | 41   | 57912    | 16.787  | ug/l   | 98       |
| 47) n-amyl Acetate             | 12.05 | 43   | 98418    | 16.056  | ug/l   | 97       |
| 48) t-1,3-Dichloropropene      | 10.35 | 75   | 77561    | 15.812  | ug/l   | 97       |
| 49) cis-1,3-Dichloropropene    | 9.81  | 75   | 86430    | 16.323  | ug/l   | 99       |
| 50) 1,1,2-Trichloroethane      | 10.53 | 97   | 48875    | 17.586  | ug/l   | 96       |
| 51) Ethyl methacrylate         | 10.40 | 69   | 76278    | 16.301  | ug/l   | 99       |
| 52) 1,3-Dichloropropane        | 10.68 | 76   | 86613    | 16.980  | ug/l   | 99       |
| 53) Dibromochloromethane       | 10.87 | 129  | 50135    | 16.557  | ug/l   | 99       |
| 54) 1,2-Dibromoethane          | 10.98 | 107  | 48009    | 16.877  | ug/l   | 100      |
| 55) 2-Chloroethyl vinyl ether  | 9.66  | 63   | 120238   | 80.451  | ug/l   | 99       |
| 56) Bromoform                  | 12.10 | 173  | 34502    | 16.682  | ug/l   | 99       |
| 58) 4-Methyl-2-Pentanone       | 9.95  | 43   | 370674   | 86.970  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.72 | 43   | 261994   | 83.816  | ug/l   | 99       |
| 61) Tetrachloroethene          | 10.60 | 164  | 38619    | 17.239  | ug/l   | 98       |
| 62) Toluene                    | 10.12 | 91   | 207106   | 16.688  | ug/l   | 100      |
| 64) Chlorobenzene              | 11.41 | 112  | 120941   | 16.584  | ug/l   | 99       |
| 65) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 46414    | 17.195  | ug/l   | 97       |
| 66) Ethyl Benzene              | 11.48 | 91   | 221164   | 16.093  | ug/l   | 99       |
| 67) m/p-Xylenes                | 11.60 | 106  | 158154   | 31.706  | ug/l   | 99       |
| 68) o-Xylene                   | 11.92 | 106  | 78413    | 16.380  | ug/l   | 98       |
| 69) Styrene                    | 11.94 | 104  | 130089   | 16.011  | ug/l   | 99       |
| 70) Isopropylbenzene           | 12.22 | 105  | 205006   | 15.953  | ug/l   | 100      |
| 71) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 71841    | 17.298  | ug/l   | 100      |
| 72) 1,2,3-Trichloropropane     | 12.53 | 75   | 93215    | 23.074  | ug/l   | 58       |
| 73) Bromobenzene               | 12.50 | 156  | 48373    | 16.254  | ug/l   | 99       |
| 74) n-propylbenzene            | 12.57 | 91   | 240298   | 15.731  | ug/l   | 99       |
| 75) 2-Chlorotoluene            | 12.65 | 91   | 146858   | 15.968  | ug/l   | 99       |
| 76) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 172617   | 15.765  | ug/l   | 98       |
| 77) t-1,4-Dichloro-2-butene    | 12.27 | 75   | 23447    | 15.518  | ug/l   | 97       |
| 78) 4-Chlorotoluene            | 12.75 | 91   | 147253   | 15.691  | ug/l   | 99       |
| 79) tert-butylbenzene          | 12.97 | 119  | 144755   | 15.966  | ug/l   | 100      |
| 80) 1,2,4-Trimethylbenzene     | 13.01 | 105  | 170514   | 15.834  | ug/l   | 100      |
| 81) sec-Butylbenzene           | 13.15 | 105  | 189597   | 15.571  | ug/l   | 99       |
| 82) p-Isopropyltoluene         | 13.26 | 119  | 163233   | 15.191  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene        | 13.26 | 146  | 81005    | 15.673  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene        | 13.34 | 146  | 78597    | 15.411  | ug/l   | 99       |
| 85) n-Butylbenzene             | 13.59 | 91   | 131041   | 14.217  | ug/l   | 99       |
| 86) Hexachloroethane           | 13.85 | 117  | 31782    | 15.328  | ug/l   | 98       |
| 87) 1,2-Dichlorobenzene        | 13.63 | 146  | 80879    | 16.273  | ug/l   | 99       |
| 88) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 13014    | 16.592  | ug/l   | 96       |
| 89) 1,2,4-Trichlorobenzene     | 14.88 | 180  | 35862    | 14.494  | ug/l   | 97       |
| 90) Hexachlorobutadiene        | 14.98 | 225  | 22083    | 16.092  | ug/l   | 98       |
| 91) Naphthalene                | 15.10 | 128  | 96647    | 14.407  | ug/l   | 98       |
| 92) 1,2,3-Trichlorobenzene     | 15.28 | 180  | 37856    | 15.181  | ug/l   | 99       |
| -----                          |       |      |          |         |        |          |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071420\  
Data File : VN062524.D  
Acq On : 14 Jul 2020 12:00  
Operator : JC/MD  
Sample : VN0714WBSD01  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0714WBSD01

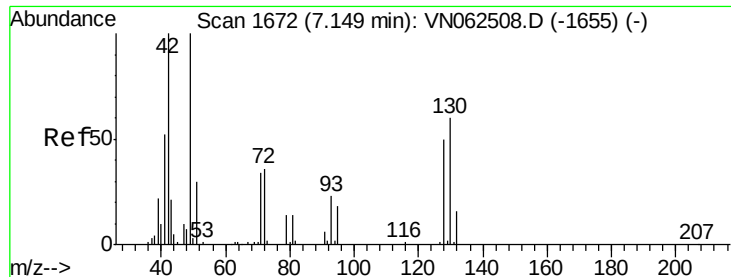
Quant Time: Jul 15 00:50:31 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071320W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Tue Jul 14 00:52:57 2020  
Response via : Initial Calibration

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

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





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.15 min Scan# 1672

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

Instrument :

MSVOA\_N

ClientSampled :

VN0714WBSD01

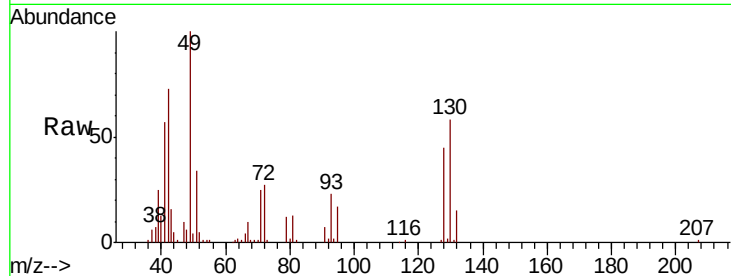
Tot Ion:128 Resp: 44862

Ion Ratio Lower Upper

128 100

49 207.0 0.0 525.0

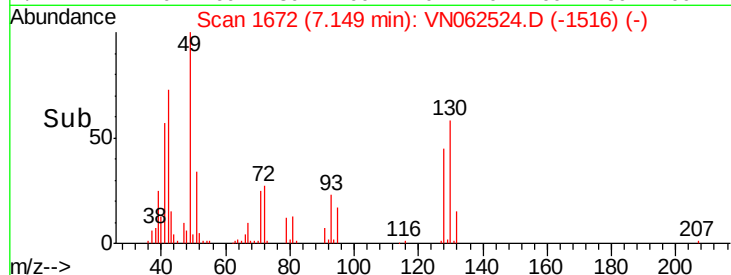
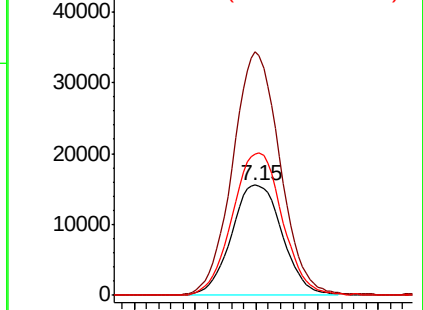
130 127.2 0.0 319.8



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: 15.355 ug/l

RT: 1.83 min Scan# 18

Delta R.T. -0.00 min

Lab File: VN062524.D

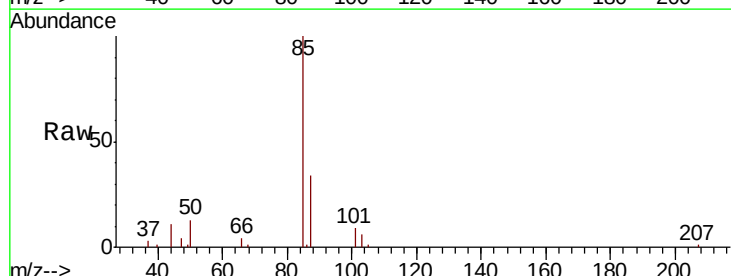
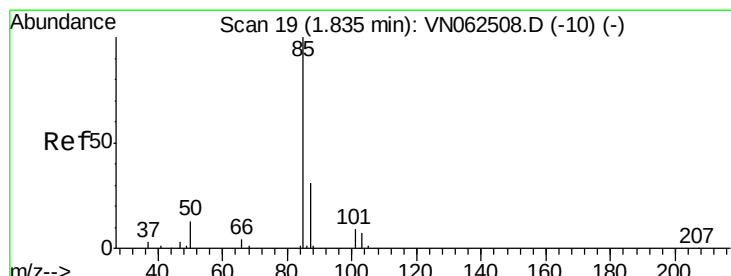
Acq: 14 Jul 2020 12:00

Tgt Ion: 85 Resp: 40657

Ion Ratio Lower Upper

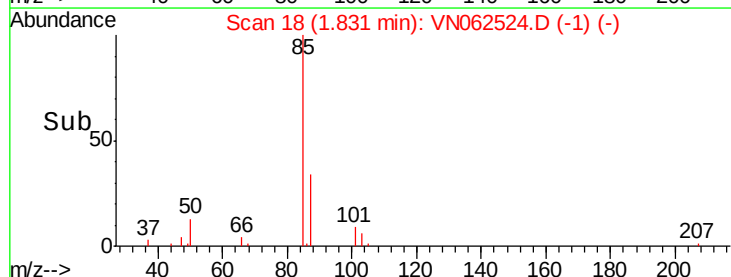
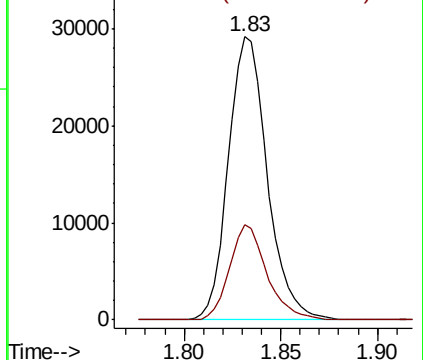
85 100

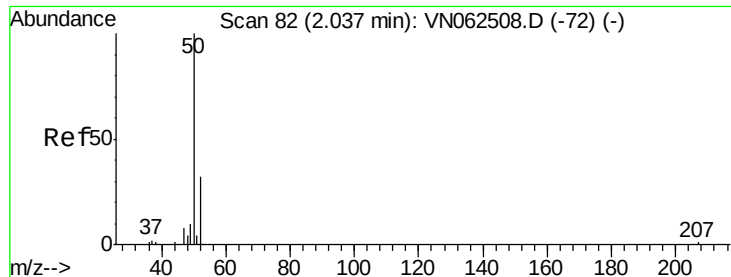
87 33.6 15.6 46.7



Abundance Ion 85.00 (84.70 to 85.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

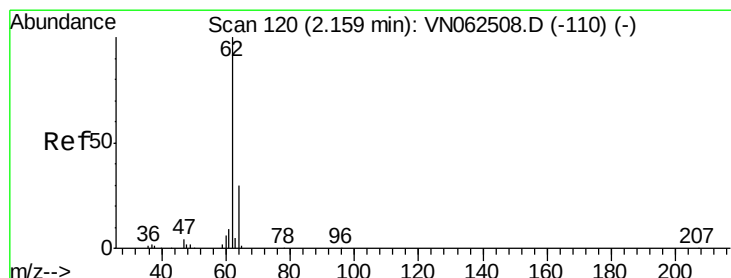
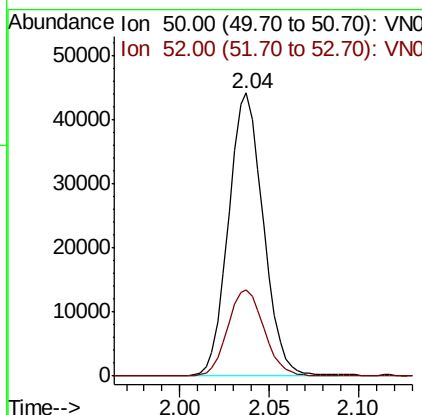
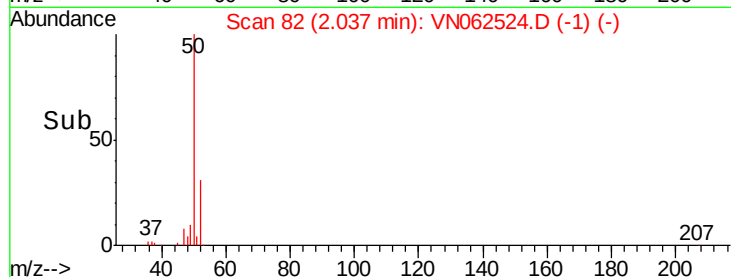
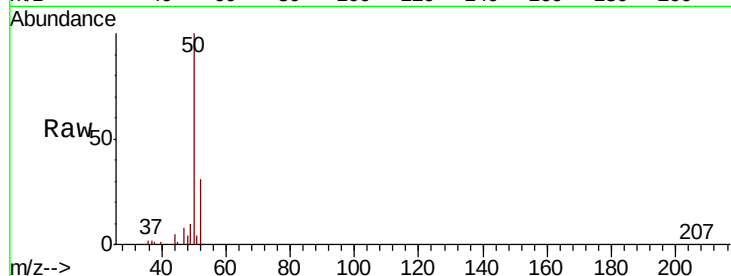




#3  
Chloromethane  
Concen: 15.704 ug/l  
RT: 2.04 min Scan# 82  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

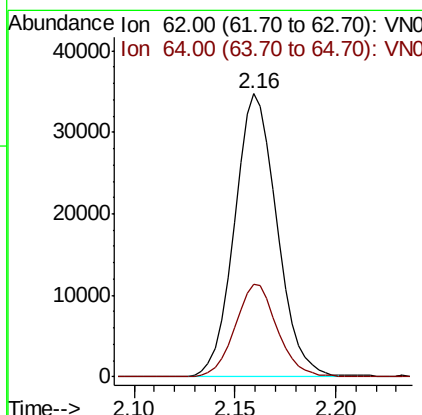
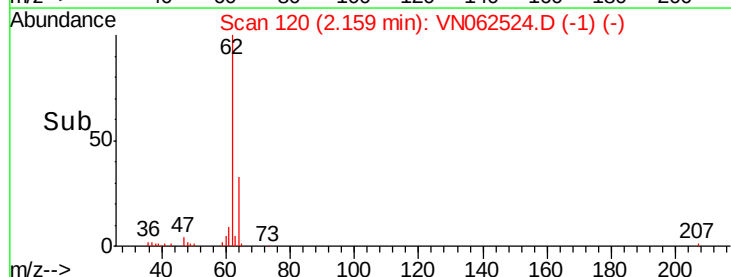
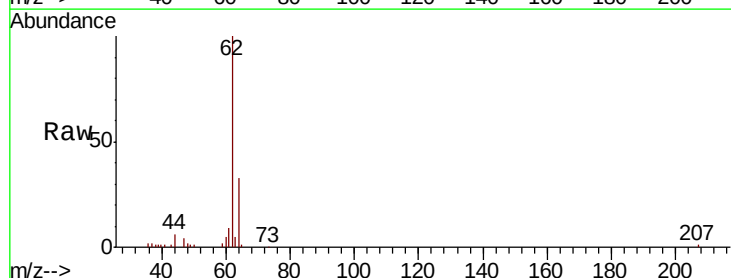
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0714WBSD01

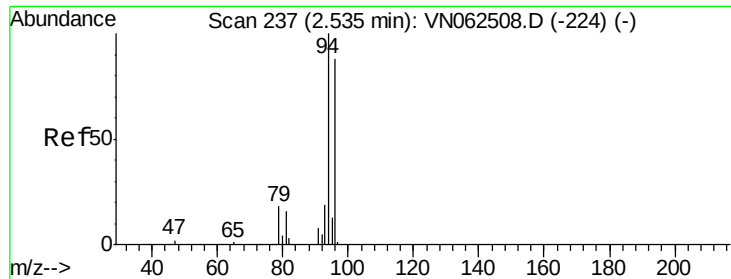
Tot Ion: 50 Resp: 60044  
Ion Ratio Lower Upper  
50 100  
52 30.5 25.4 38.2



#4  
Vinyl Chloride  
Concen: 15.328 ug/l  
RT: 2.16 min Scan# 120  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

Tgt Ion: 62 Resp: 51228  
Ion Ratio Lower Upper  
62 100  
64 32.9 24.3 36.5





#5

Bromomethane

Concen: 14.228 ug/l

RT: 2.53 min Scan# 236

Delta R.T. -0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

Instrument :

MSVOA\_N

ClientSampleId :

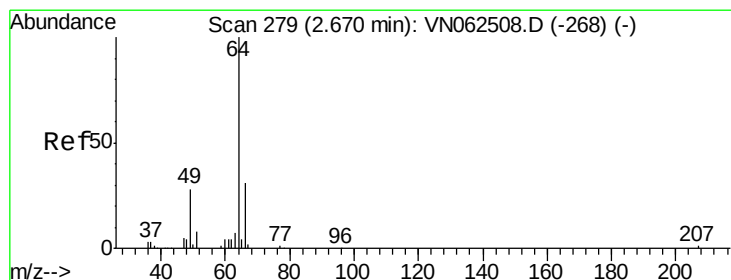
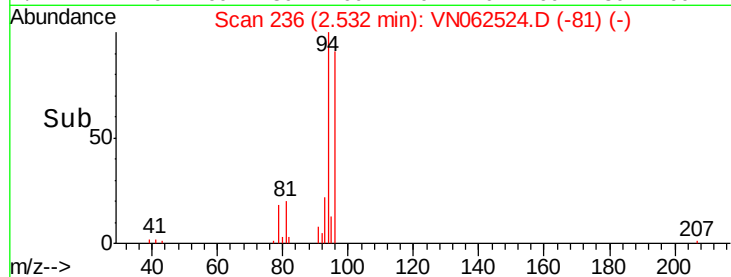
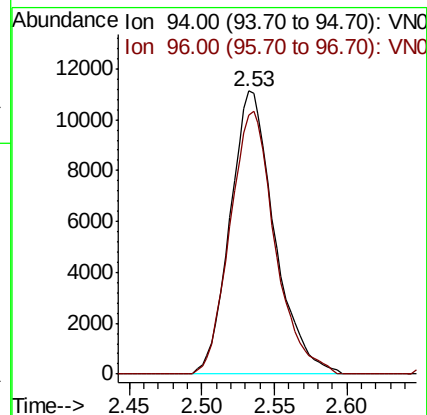
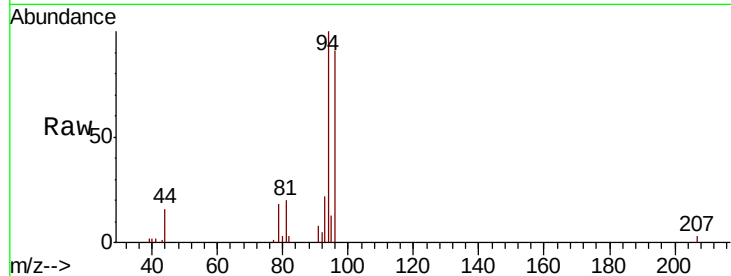
VN0714WBSD01

Tot Ion: 94 Resp: 23590

Ion Ratio Lower Upper

94 100

96 91.4 70.2 105.4



#6

Chloroethane

Concen: 15.220 ug/l

RT: 2.67 min Scan# 279

Delta R.T. 0.00 min

Lab File: VN062524.D

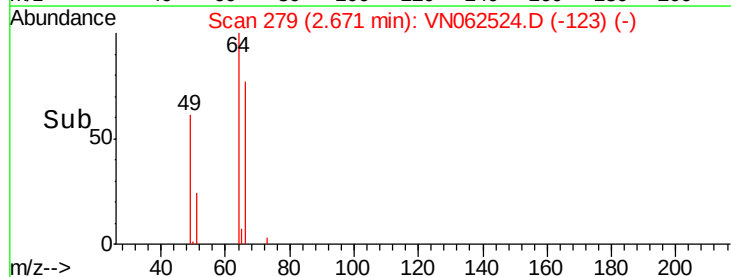
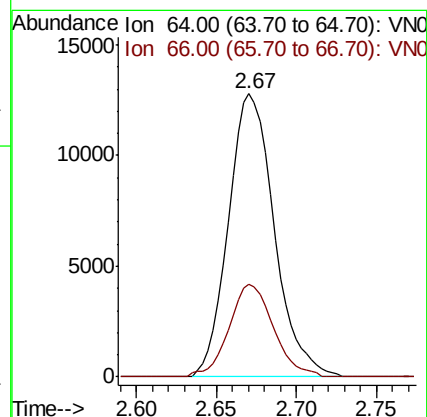
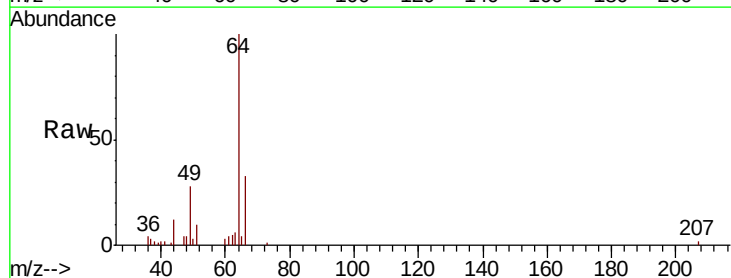
Acq: 14 Jul 2020 12:00

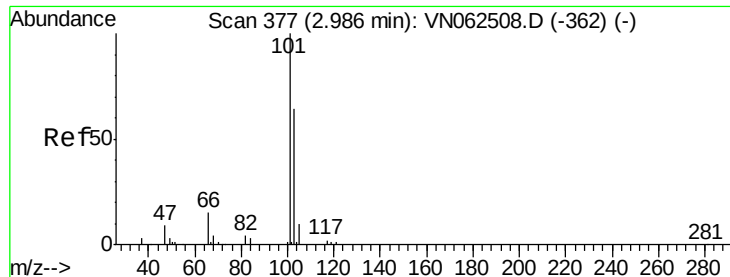
Tgt Ion: 64 Resp: 25041

Ion Ratio Lower Upper

64 100

66 32.7 24.9 37.3



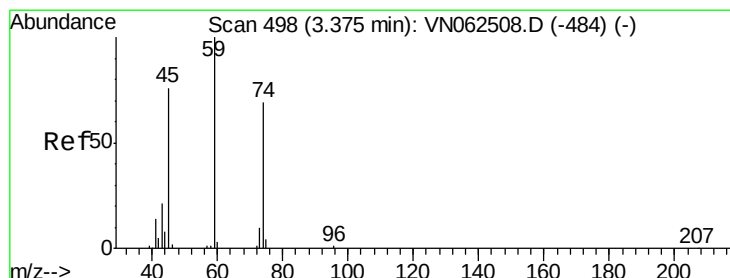
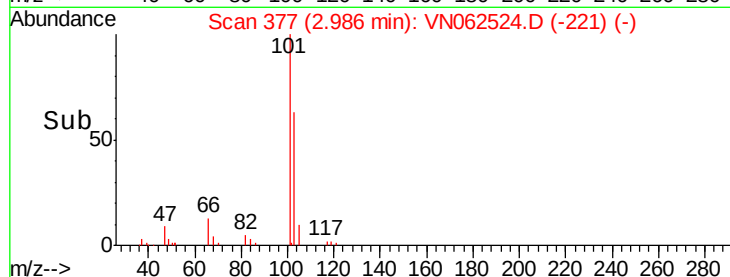
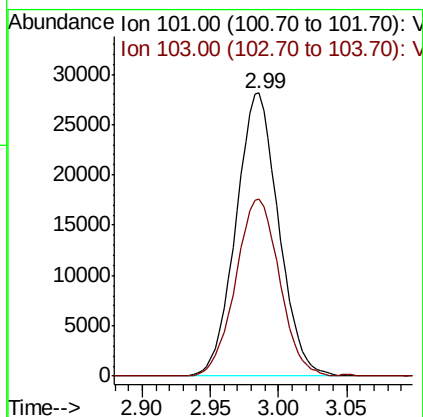
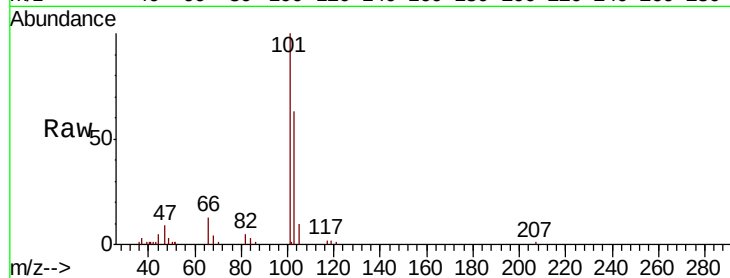


#7

Trichlorofluoromethane  
 Concen: 15.609 ug/l  
 RT: 2.99 min Scan# 377  
 Delta R.T. 0.00 min  
 Lab File: VN062524.D  
 Acq: 14 Jul 2020 12:00

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0714WBSD01

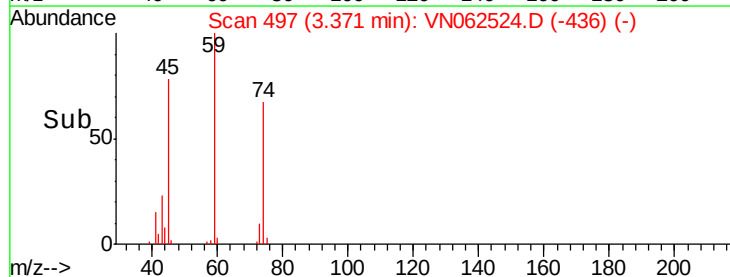
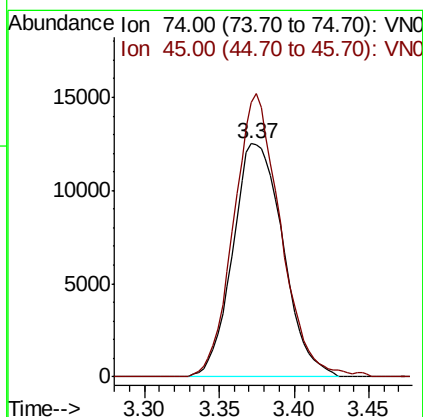
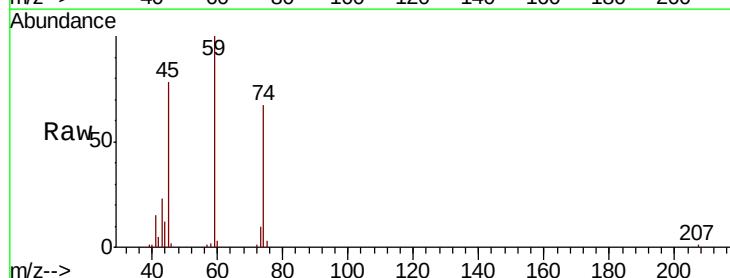
Tot Ion:101 Resp: 61142  
 Ion Ratio Lower Upper  
 101 100  
 103 62.8 50.9 76.3



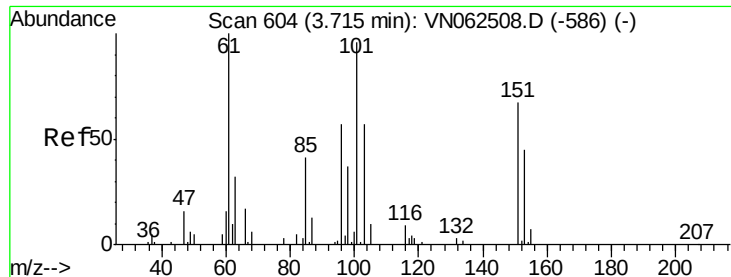
#8

Diethyl Ether  
 Concen: 15.588 ug/l  
 RT: 3.37 min Scan# 497  
 Delta R.T. -0.00 min  
 Lab File: VN062524.D  
 Acq: 14 Jul 2020 12:00

Tgt Ion: 74 Resp: 29353  
 Ion Ratio Lower Upper  
 74 100  
 45 112.3 21.8 196.6







#9

1,1,2-Trichlorotrifluoroethane

Concen: 15.101 ug/l

RT: 3.72 min Scan# 605

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

Instrument :

MSVOA\_N

ClientSampleId :

VN0714WBSD01

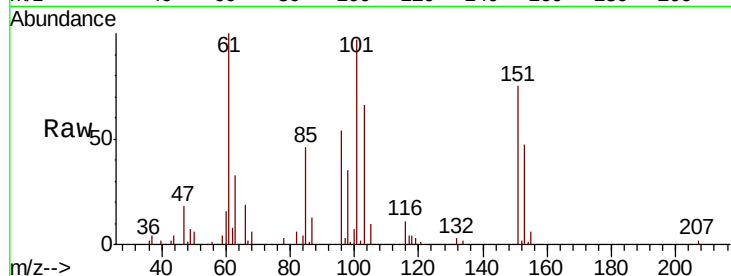
Tot Ion:101 Resp: 38239

Ion Ratio Lower Upper

101 100

85 46.4 0.0 90.4

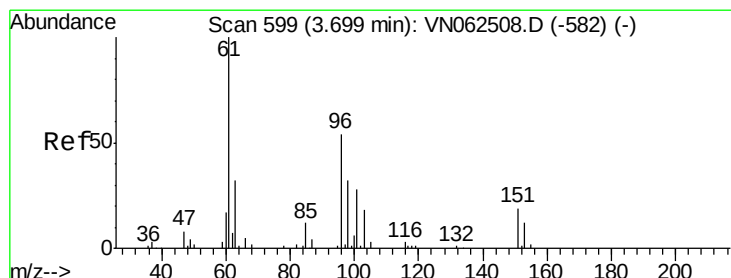
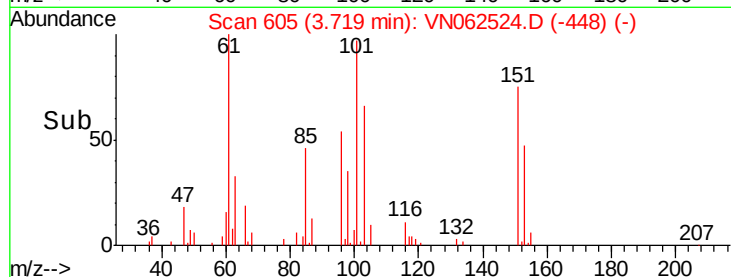
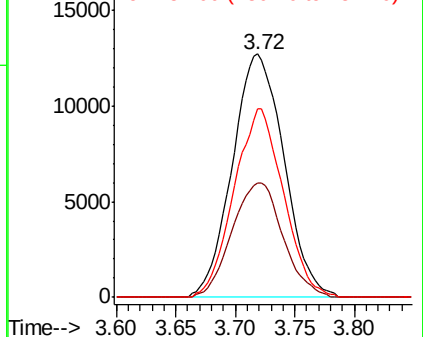
151 74.1 0.0 145.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VN0

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 15.582 ug/l

RT: 3.70 min Scan# 599

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

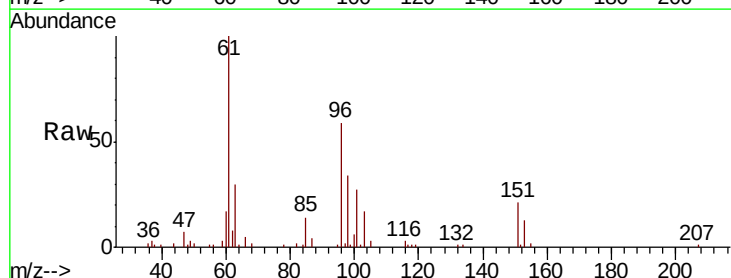
Tgt Ion: 96 Resp: 40255

Ion Ratio Lower Upper

96 100

61 169.7 147.8 221.8

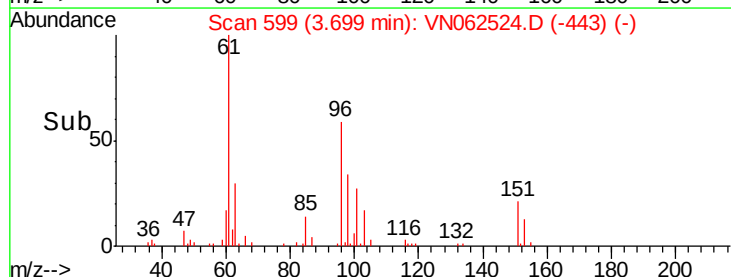
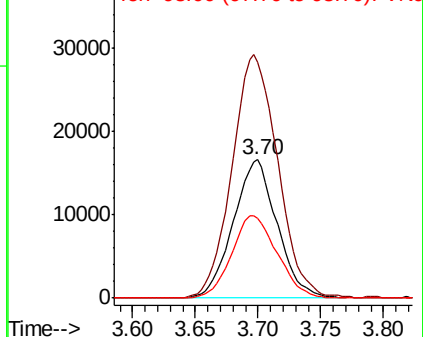
98 57.3 47.8 71.8

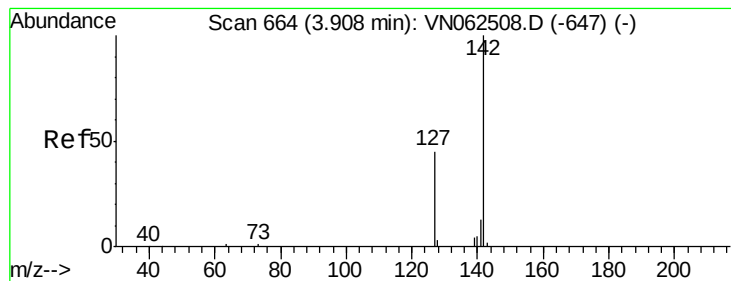


Abundance Ion 96.00 (95.70 to 96.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 98.00 (97.70 to 98.70): VN0

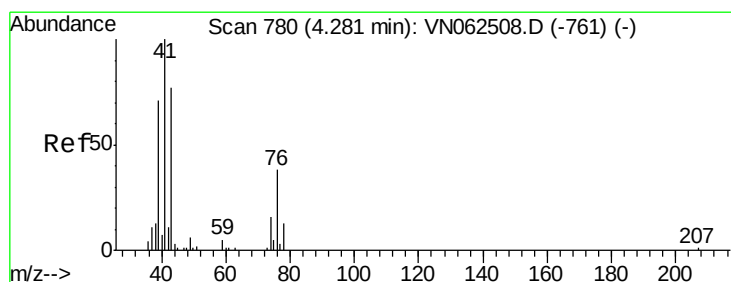
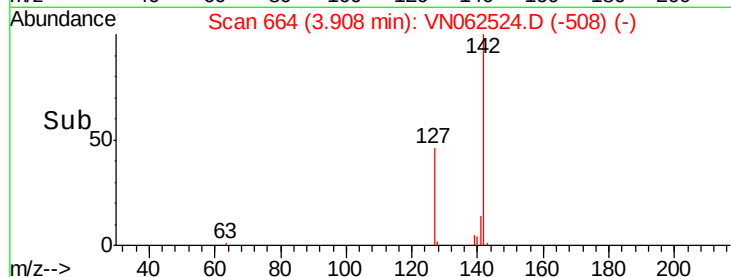
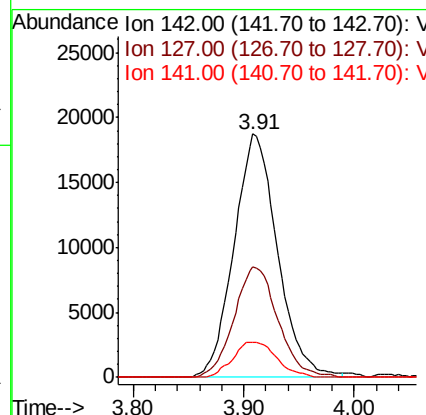
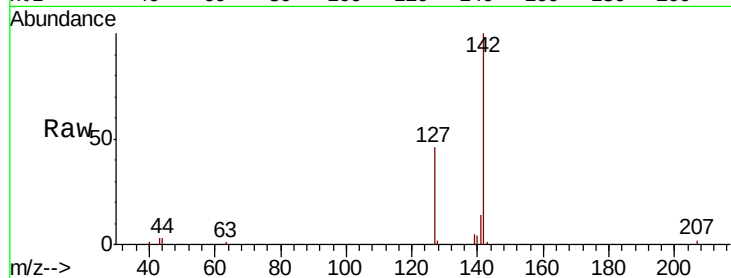




#11  
Methvl Iodide  
Concen: 16.162 ug/l  
RT: 3.91 min Scan# 664  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

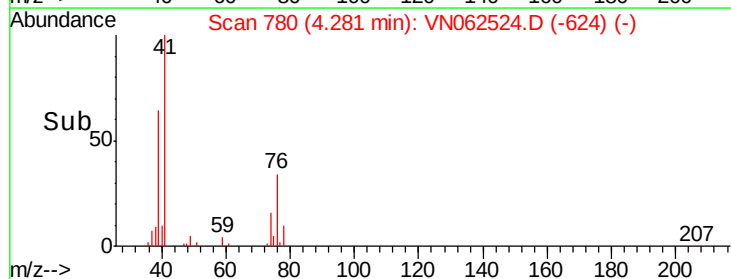
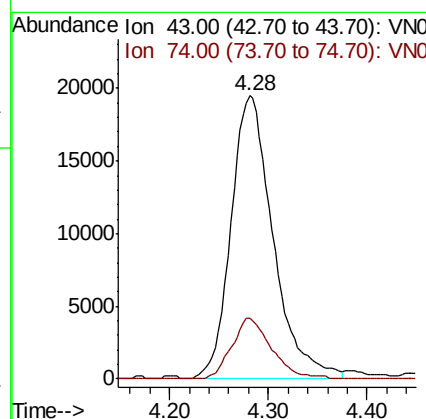
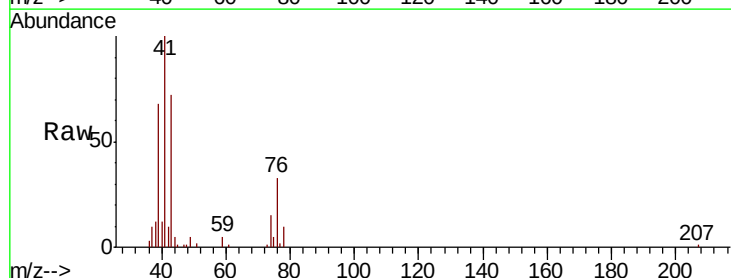
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0714WBSD01

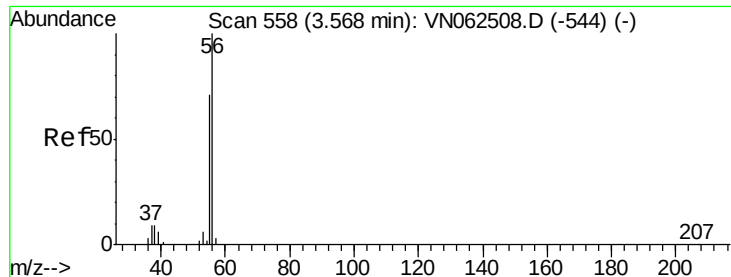
Tot Ion:142 Resp: 51130  
Ion Ratio Lower Upper  
142 100  
127 45.9 22.1 66.5  
141 14.5 6.5 19.4



#12  
Methyl Acetate  
Concen: 16.710 ug/l  
RT: 4.28 min Scan# 780  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

Tgt Ion: 43 Resp: 57894  
Ion Ratio Lower Upper  
43 100  
74 21.6 16.7 25.1





#13

Acrolein

Concen: 93.284 ug/l

RT: 3.57 min Scan# 558

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

Instrument :

MSVOA\_N

ClientSampleId :

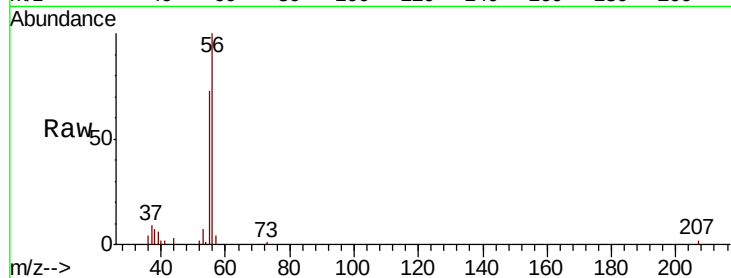
VN0714WBSD01

Tot Ion: 56 Resp: 48289

Ion Ratio Lower Upper

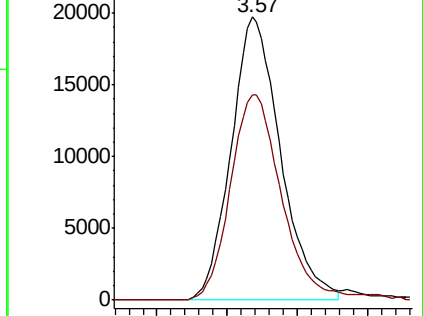
56 100

55 74.6 56.0 84.0

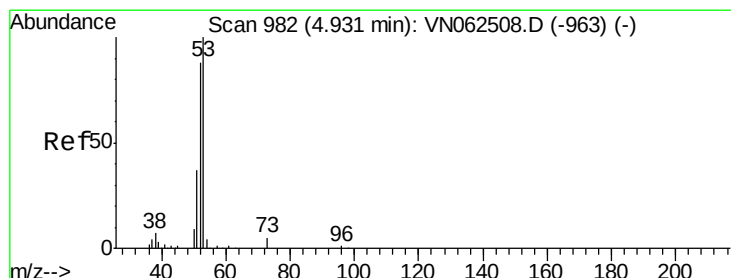
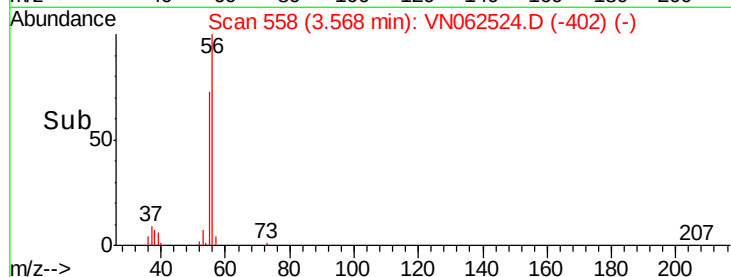


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



Time-->



#14

Acrylonitrile

Concen: 82.315 ug/l

RT: 4.93 min Scan# 983

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

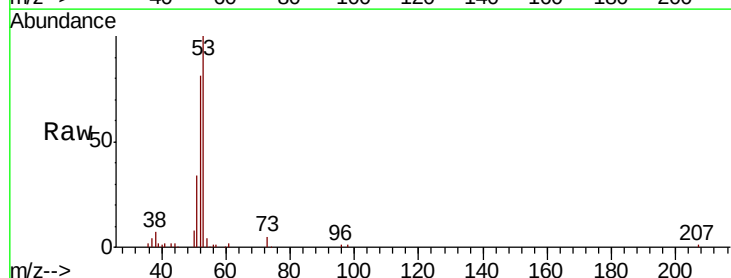
Tgt Ion: 53 Resp: 132640

Ion Ratio Lower Upper

53 100

52 81.1 41.8 125.4

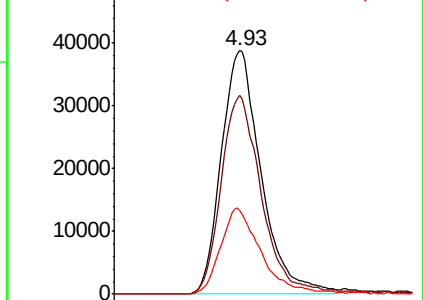
51 34.0 18.5 55.5



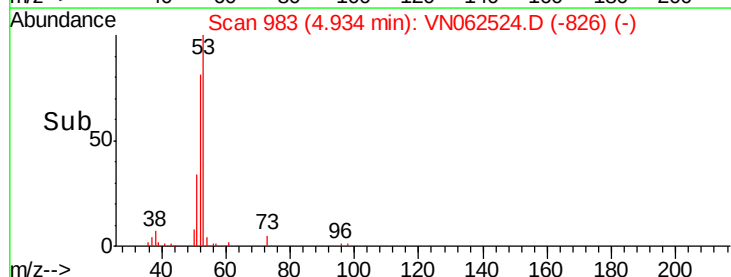
Abundance Ion 53.00 (52.70 to 53.70): VN0

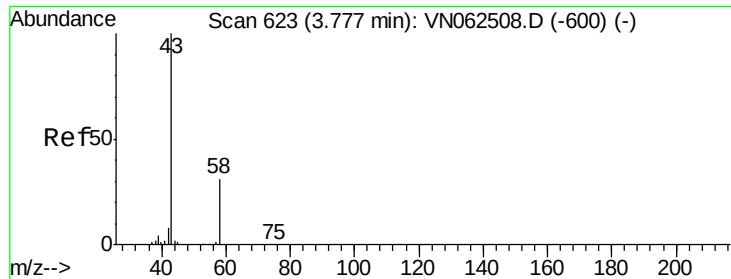
Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0



Time-->

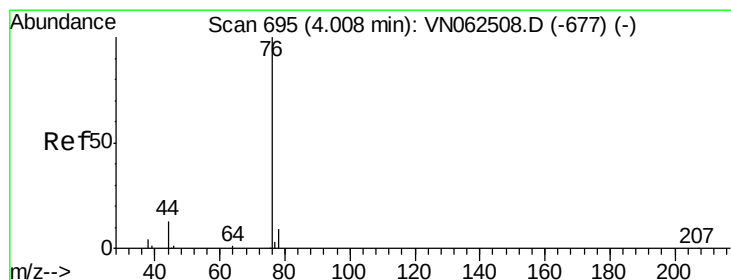
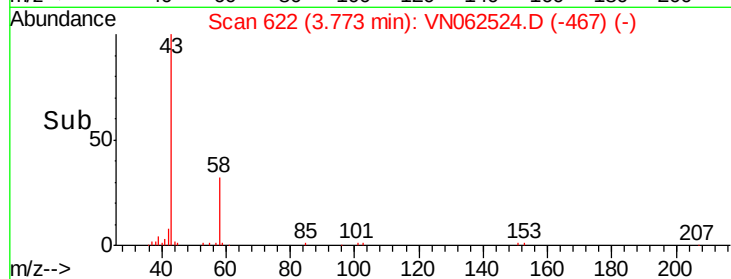
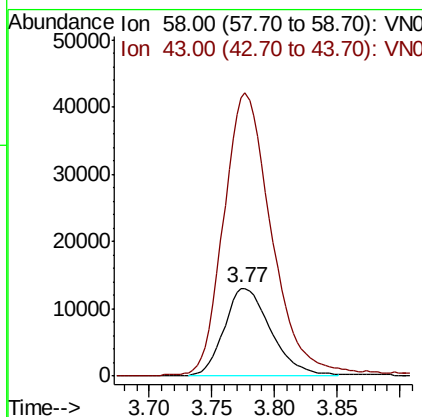
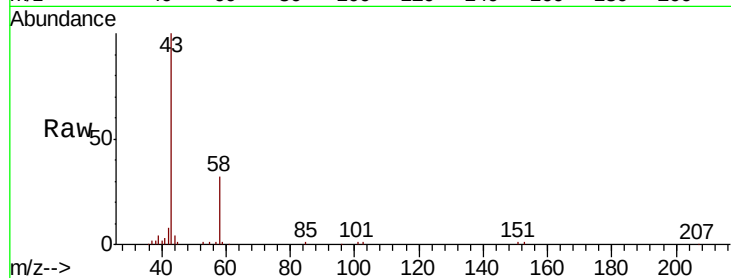




#15  
Acetone  
Concen: 68.644 ug/l  
RT: 3.77 min Scan# 622  
Delta R.T. -0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

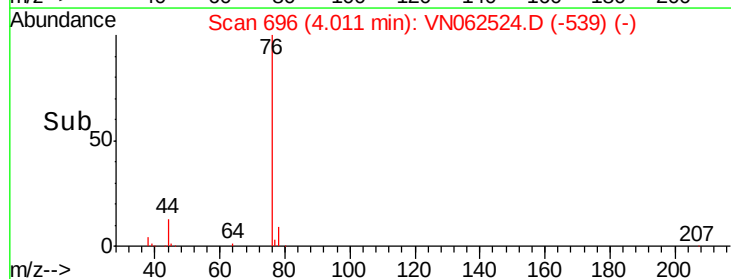
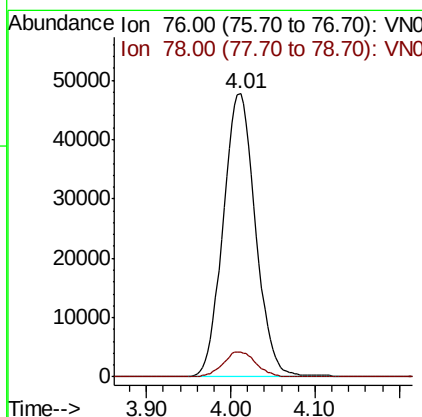
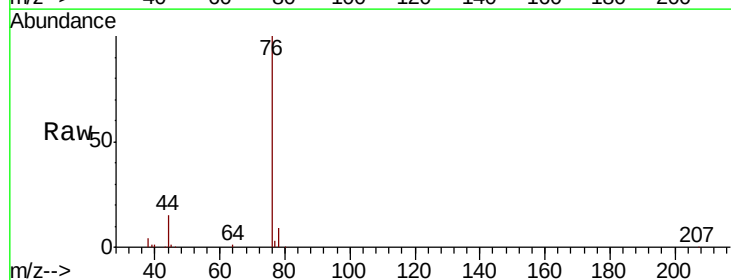
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0714WBSD01

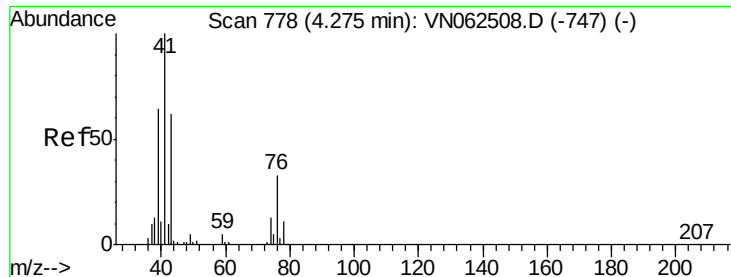
Tot Ion: 58 Resp: 33955  
Ion Ratio Lower Upper  
58 100  
43 312.6 261.1 391.7



#16  
Carbon Disulfide  
Concen: 15.126 ug/l  
RT: 4.01 min Scan# 696  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

Tgt Ion: 76 Resp: 127344  
Ion Ratio Lower Upper  
76 100  
78 8.7 7.4 11.0

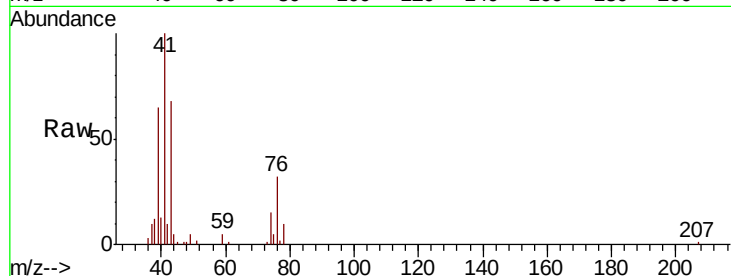




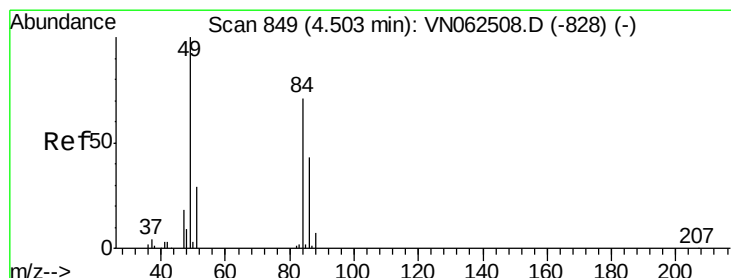
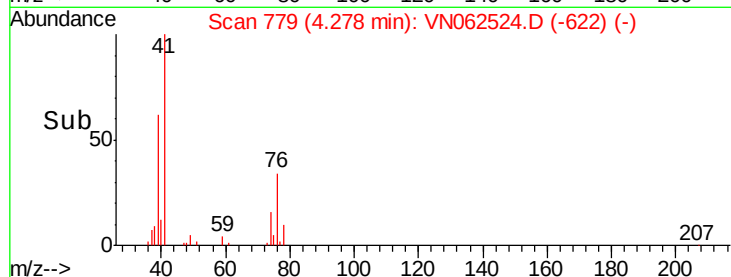
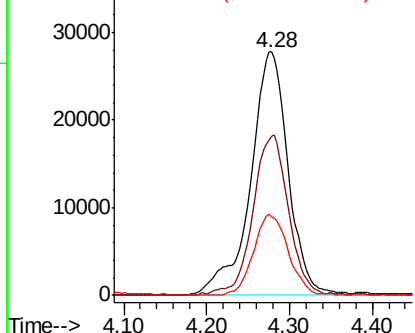
#17  
Allvl chloride  
Concen: 16.031 ug/l  
RT: 4.28 min Scan# 779  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

Instrument :  
MSVOA\_N  
ClientSampled :  
VN0714WBSD01

Tot Ion: 41 Resp: 88076  
Ion Ratio Lower Upper  
41 100  
39 65.5 31.9 95.5  
76 32.5 16.6 49.8

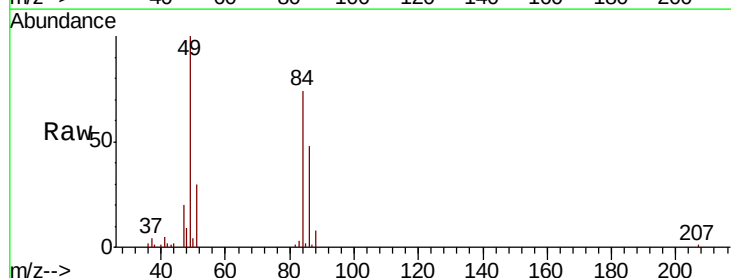


Abundance Ion 41.00 (40.70 to 41.70): VNO  
Ion 39.00 (38.70 to 39.70): VNO  
Ion 76.00 (75.70 to 76.70): VNO

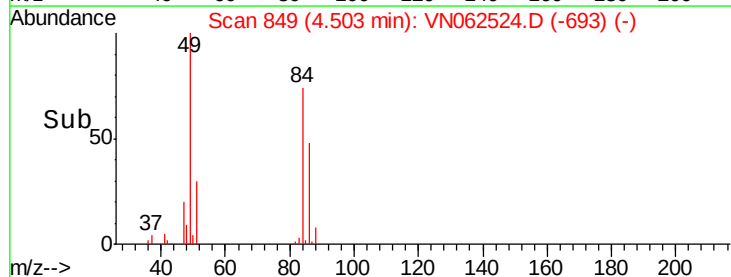
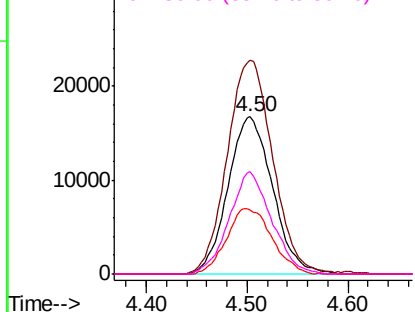


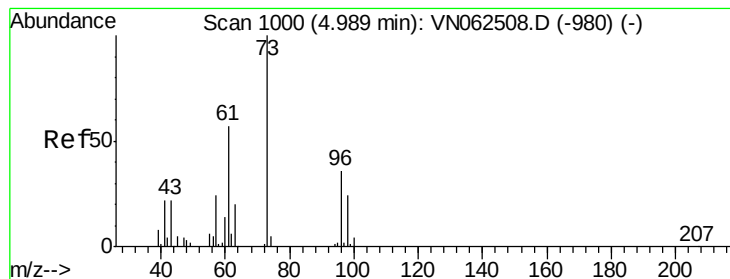
#18  
Methylene Chloride  
Concen: 16.175 ug/l  
RT: 4.50 min Scan# 849  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

Tgt Ion: 84 Resp: 51417  
Ion Ratio Lower Upper  
84 100  
49 134.8 112.1 168.1  
51 40.4 33.0 49.4  
86 64.8 48.2 72.4



Abundance Ion 84.00 (83.70 to 84.70): VNO  
Ion 49.00 (48.70 to 49.70): VNO  
Ion 51.00 (50.70 to 51.70): VNO  
Ion 86.00 (85.70 to 86.70): VNO





#19

trans-1,2-Dichloroethene

Concen: 15.353 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

Instrument :

MSVOA\_N

ClientSampleId :

VN0714WBSD01

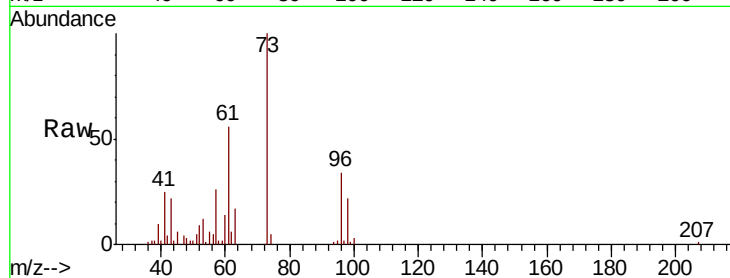
Tot Ion: 96 Resp: 43898

Ion Ratio Lower Upper

96 100

61 164.6 125.7 188.5

98 63.9 54.1 81.1

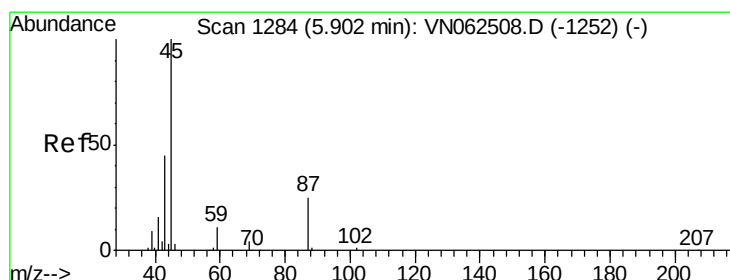
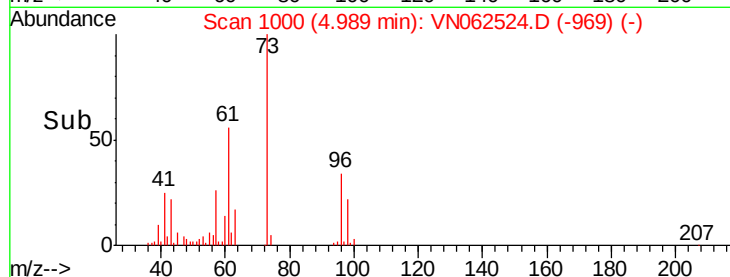
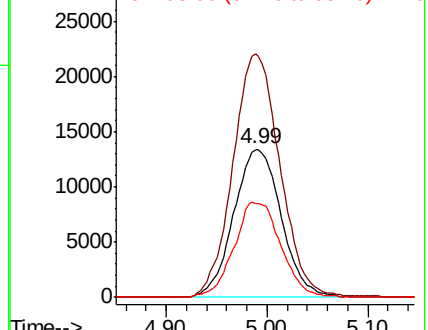


Abundance

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: 16.271 ug/l

RT: 5.90 min Scan# 1284

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

Tgt Ion: 45 Resp: 183774

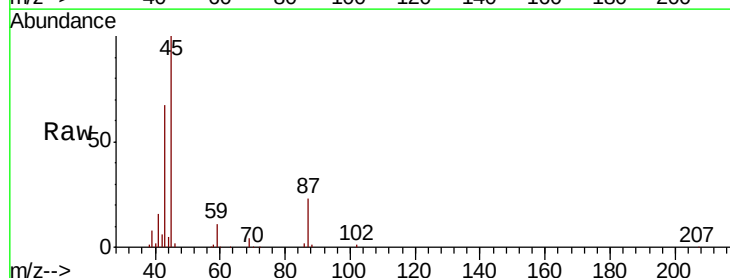
Ion Ratio Lower Upper

45 100

43 65.3 51.3 76.9

87 22.6 19.8 29.6

59 10.8 8.8 13.2



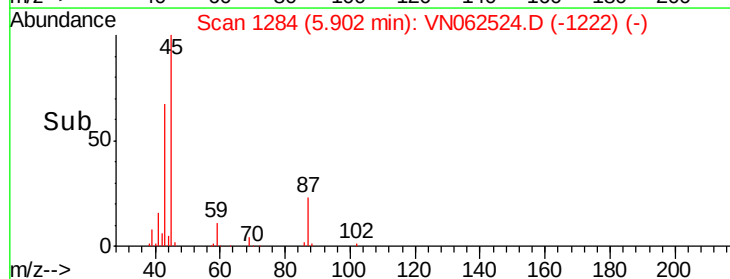
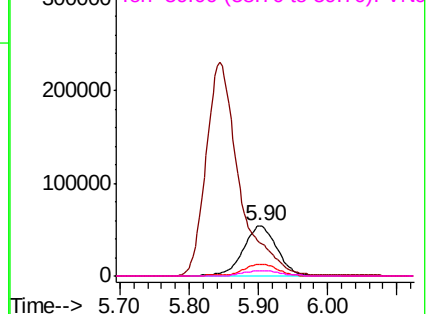
Abundance

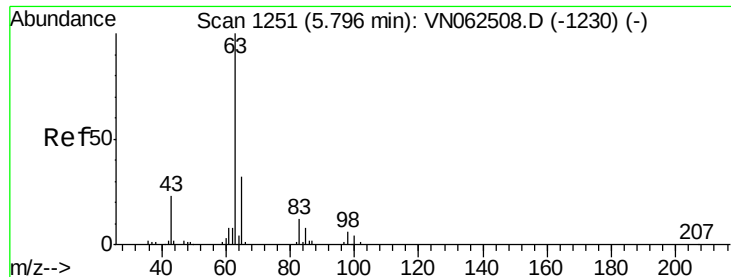
Ion 45.00 (44.70 to 45.70): VN0

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: 15.927 ug/l

RT: 5.80 min Scan# 1253

Delta R.T. 0.01 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

Instrument :

MSVOA\_N

ClientSampleId :

VN0714WBSD01

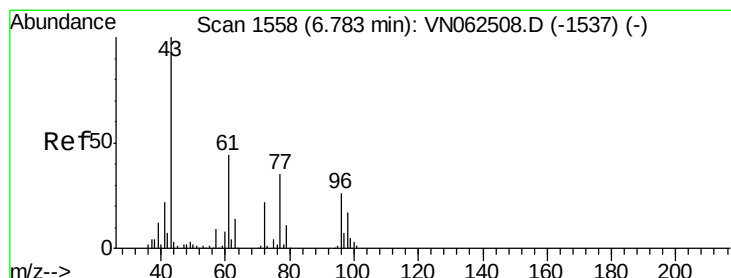
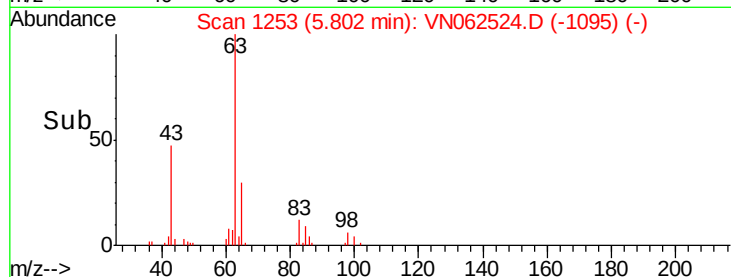
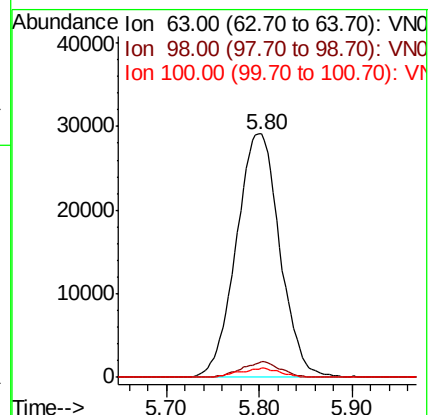
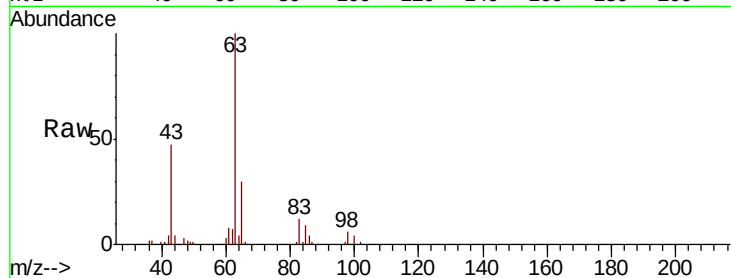
Tot Ion: 63 Resp: 95105

Ion Ratio Lower Upper

63 100

98 6.4 2.8 8.4

100 3.7 2.0 5.8



#22

cis-1,2-Dichloroethene

Concen: 16.017 ug/l

RT: 6.79 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

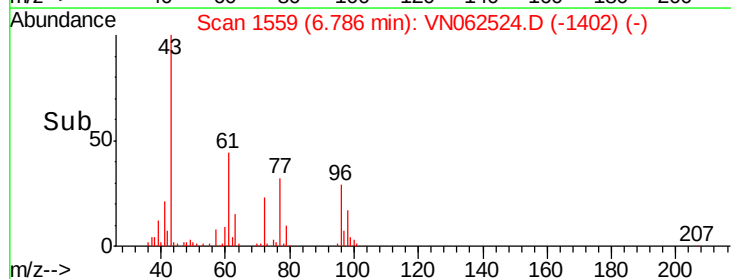
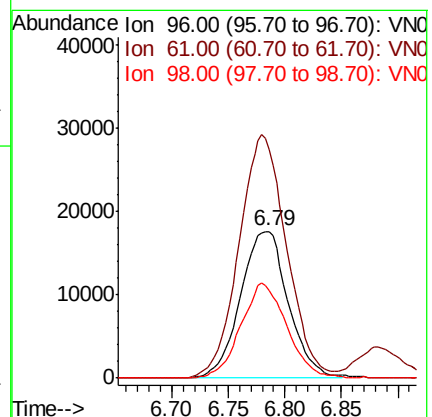
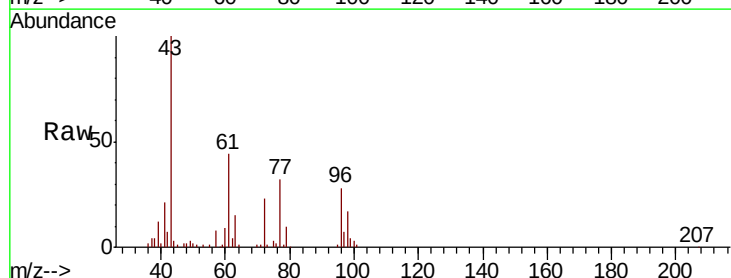
Tgt Ion: 96 Resp: 51647

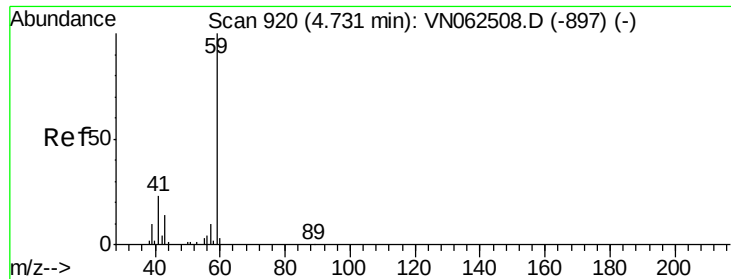
Ion Ratio Lower Upper

96 100

61 165.7 134.9 202.3

98 62.3 51.5 77.3





#23

tert-Butyl Alcohol

Concen: 85.538 ug/l

RT: 4.73 min Scan# 921

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

Instrument :

MSVOA\_N

ClientSampleId :

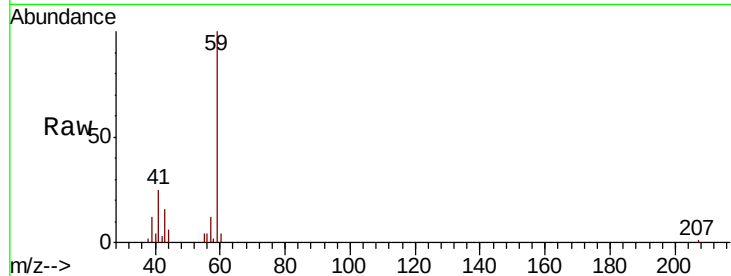
VN0714WBSD01

Tot Ion: 59 Resp: 46127

Ion Ratio Lower Upper

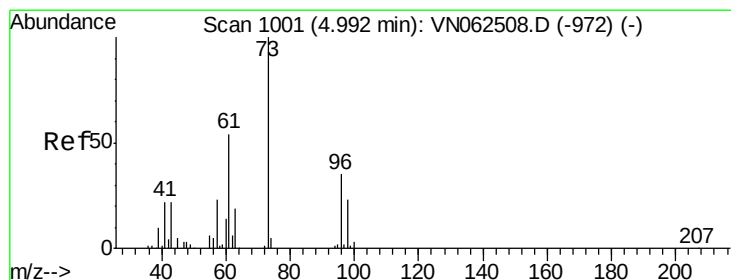
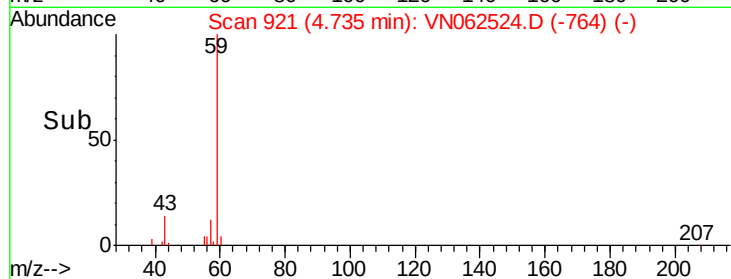
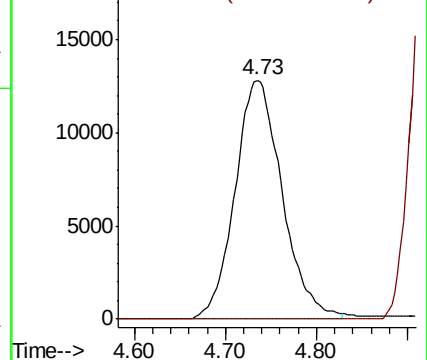
59 100

52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#24

Methyl tert-Butyl Ether

Concen: 15.760 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.00 min

Lab File: VN062524.D

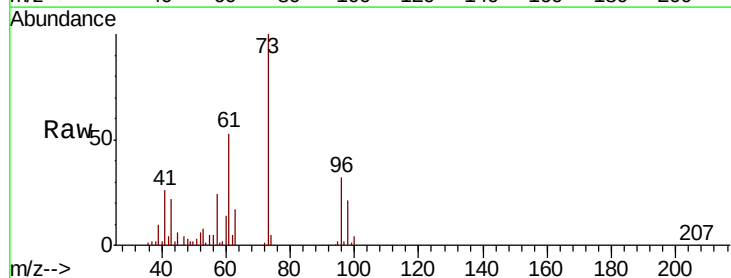
Acq: 14 Jul 2020 12:00

Tgt Ion: 73 Resp: 150105

Ion Ratio Lower Upper

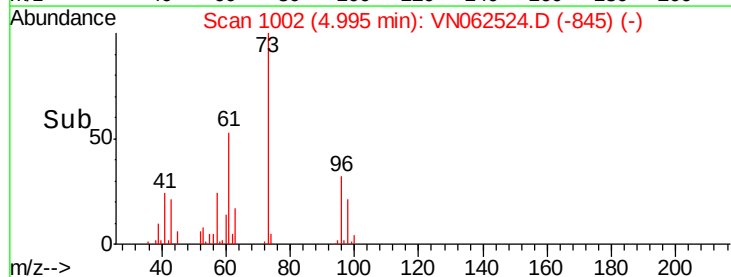
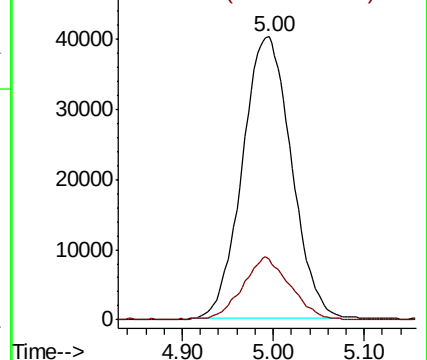
73 100

43 21.8 16.9 25.3

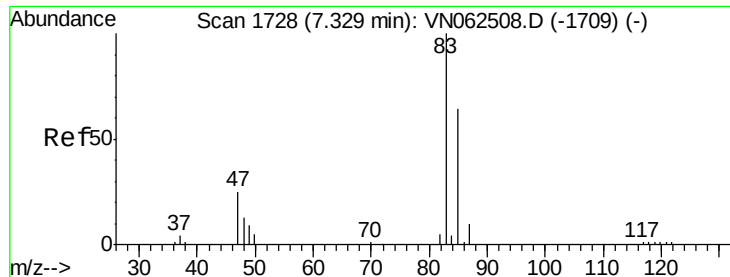


Abundance Ion 73.00 (72.70 to 73.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



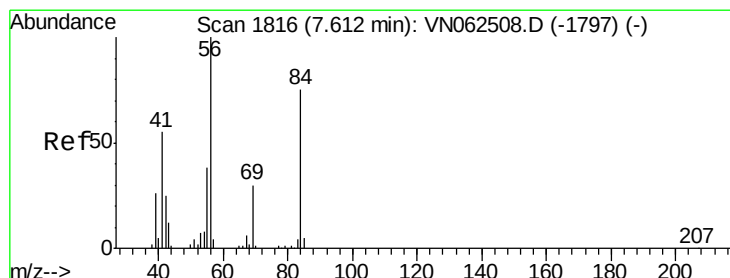
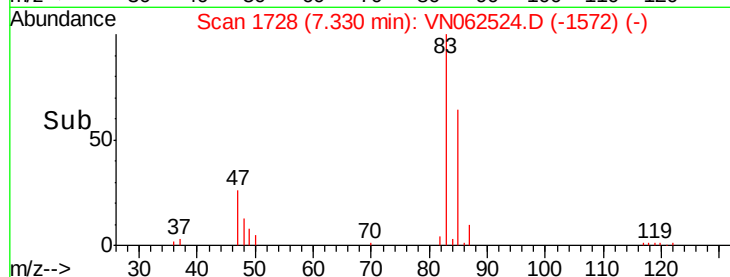
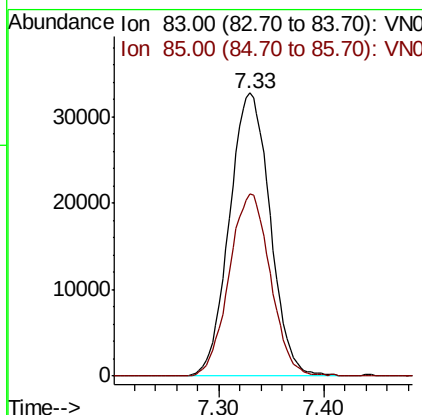
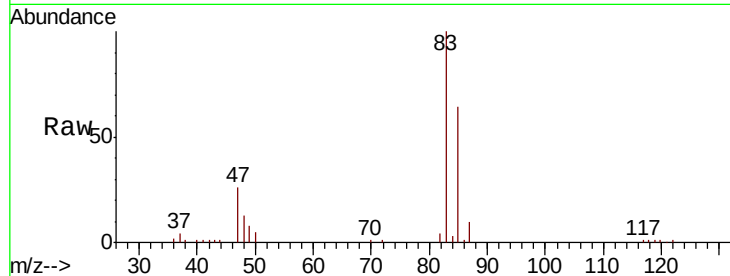




#25  
Chloroform  
Concen: 16.049 ug/l  
RT: 7.33 min Scan# 1728  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

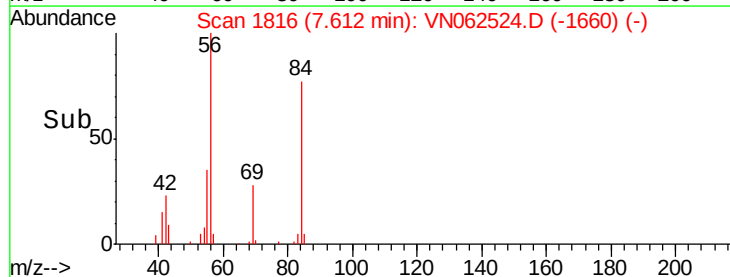
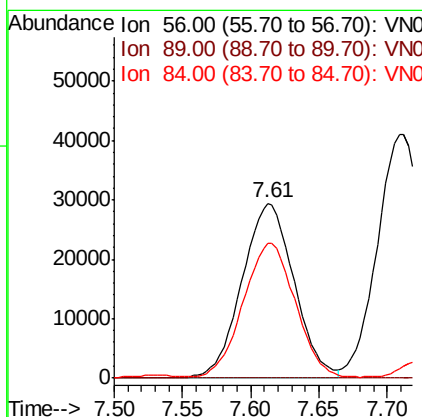
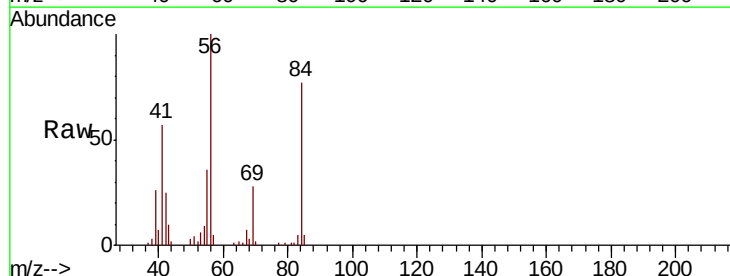
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0714WBSD01

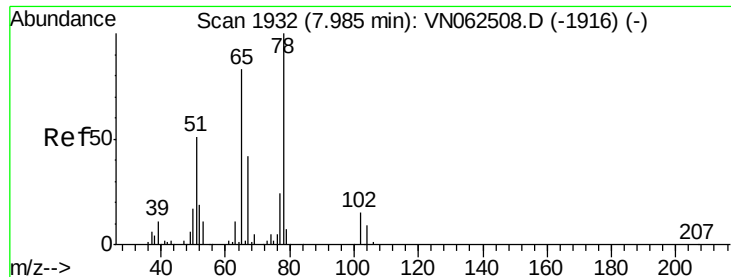
Tot Ion: 83 Resp: 87887  
Ion Ratio Lower Upper  
83 100  
85 64.2 51.0 76.4



#26  
Cyclohexane  
Concen: 14.786 ug/l  
RT: 7.61 min Scan# 1816  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

Tgt Ion: 56 Resp: 77820  
Ion Ratio Lower Upper  
56 100  
89 0.0 0.0 0.0  
84 78.0 61.1 91.7





#27

1,2-Dichloroethane-d4

Concen: 29.018 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

Instrument :

MSVOA\_N

ClientSampleId :

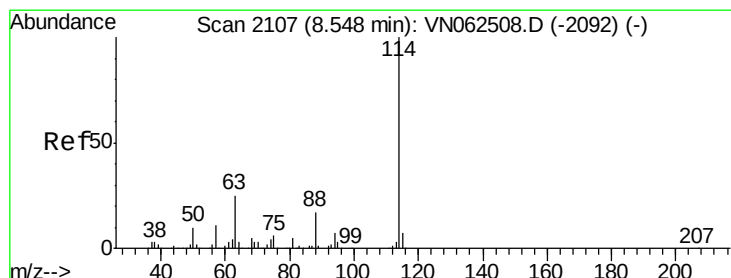
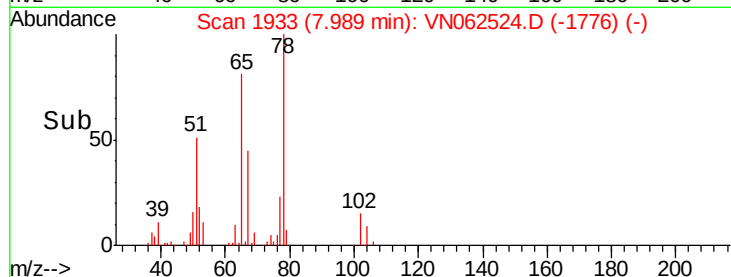
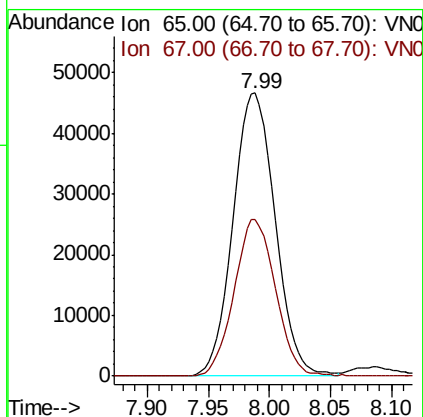
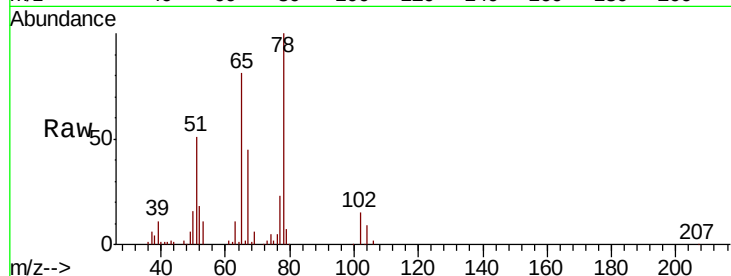
VN0714WBSD01

Tot Ion: 65 Resp: 111831

Ion Ratio Lower Upper

65 100

67 54.0 41.7 62.5



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

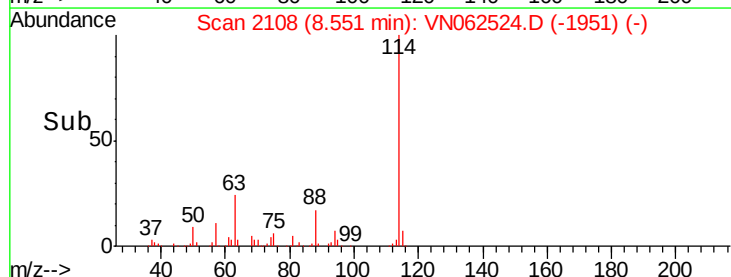
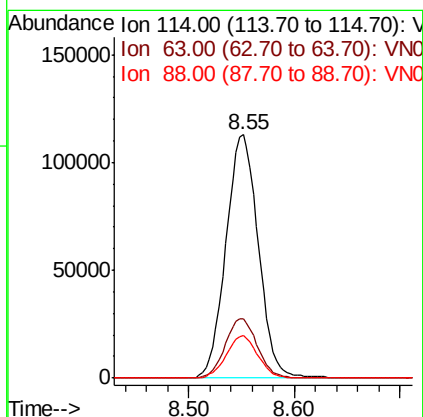
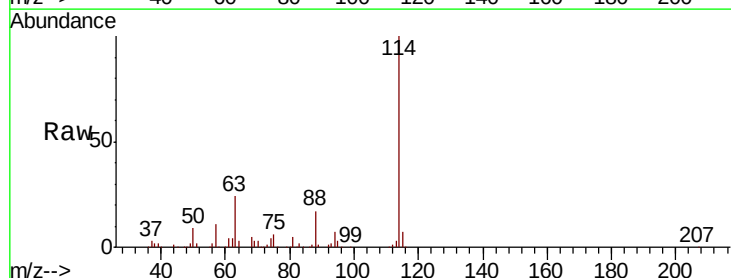
Tgt Ion: 114 Resp: 239638

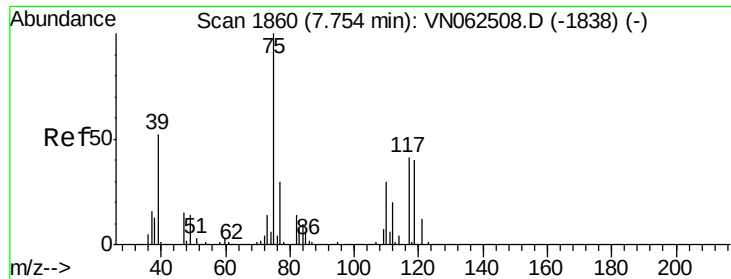
Ion Ratio Lower Upper

114 100

63 24.2 19.4 29.0

88 17.0 13.5 20.3





#29

1,1-Dichloropropene

Concen: 15.699 ug/l

RT: 7.75 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

Instrument :

MSVOA\_N

ClientSampleId :

VN0714WBSD01

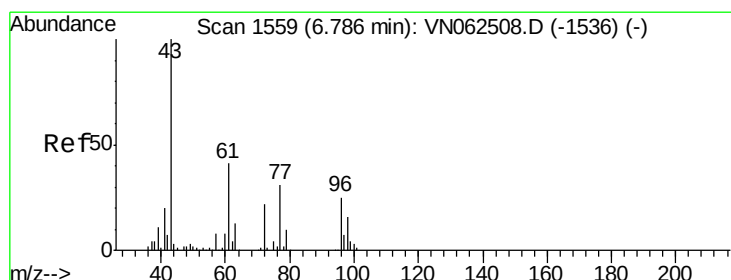
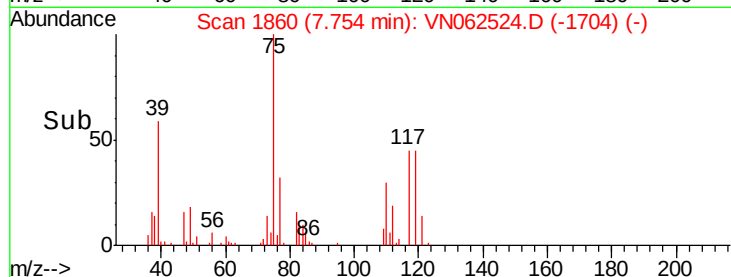
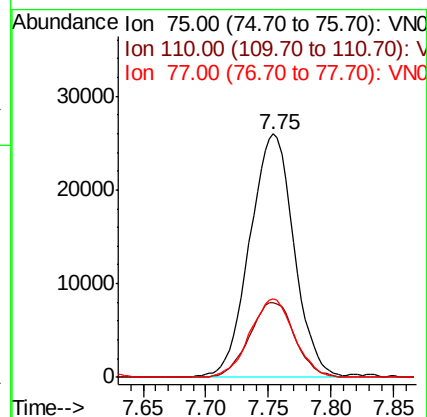
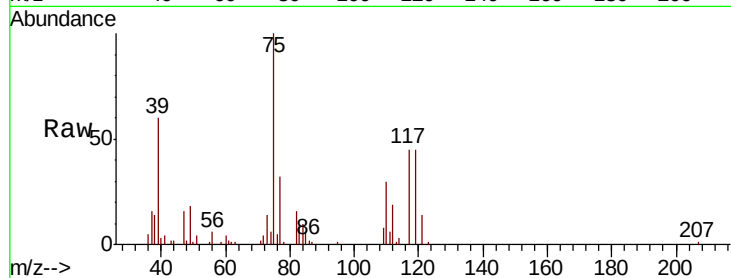
Tot Ion: 75 Resp: 63813

Ion Ratio Lower Upper

75 100

110 31.5 0.0 62.4

77 32.0 0.0 62.8



#30

2-Butanone

Concen: 82.854 ug/l

RT: 6.79 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

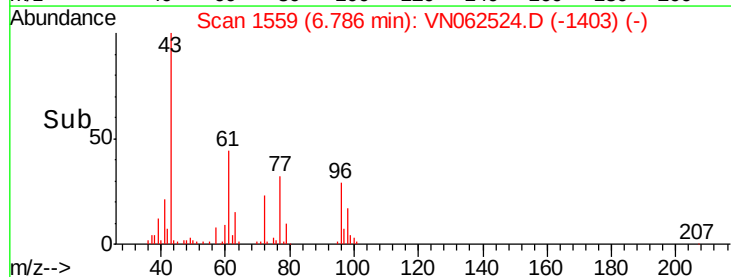
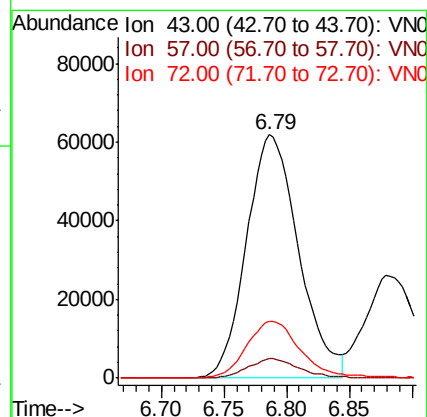
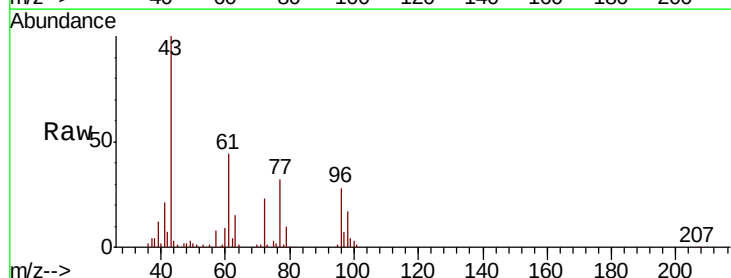
Tgt Ion: 43 Resp: 178613

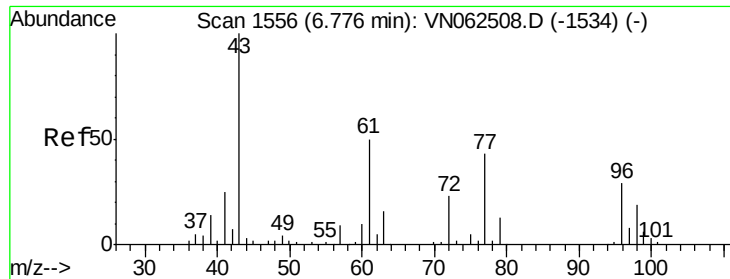
Ion Ratio Lower Upper

43 100

57 7.9 6.6 9.8

72 24.1 18.5 27.7

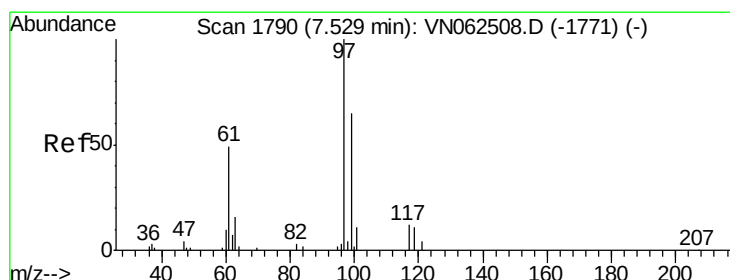
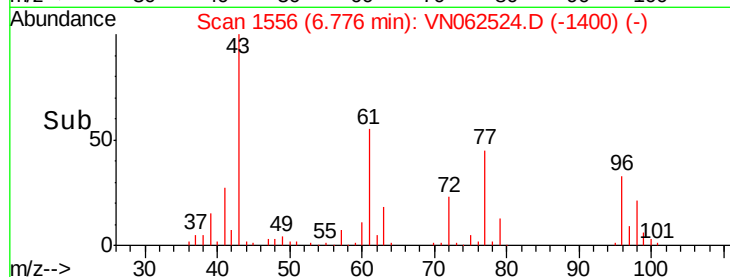
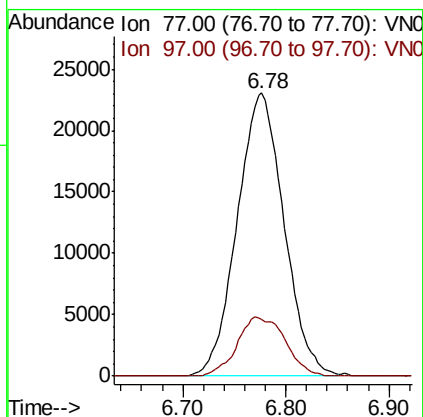
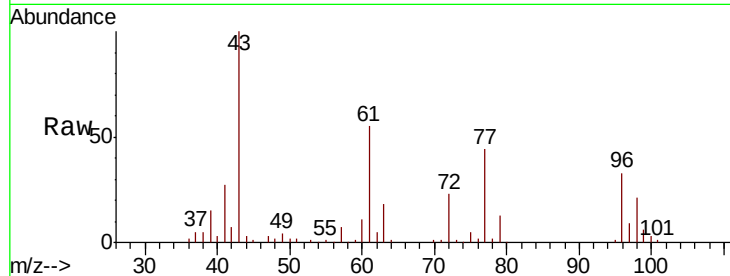




#31  
 2,2-Dichloropropane  
 Concen: 15.851 ug/l  
 RT: 6.78 min Scan# 1556  
 Delta R.T. 0.00 min  
 Lab File: VN062524.D  
 Acq: 14 Jul 2020 12:00

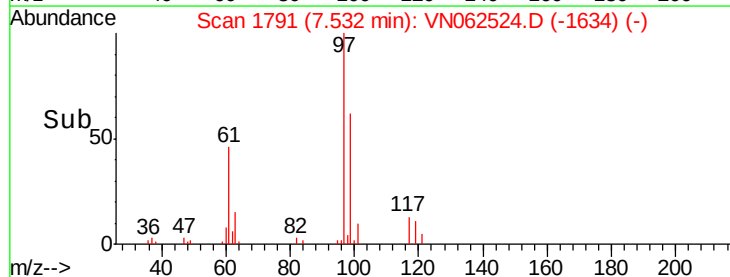
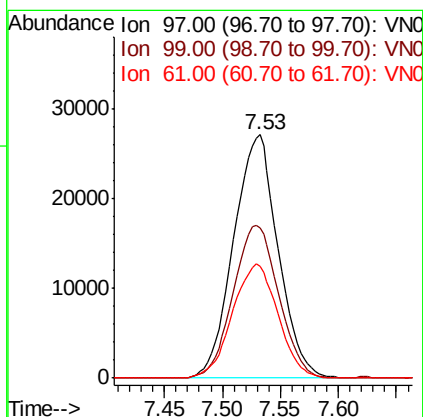
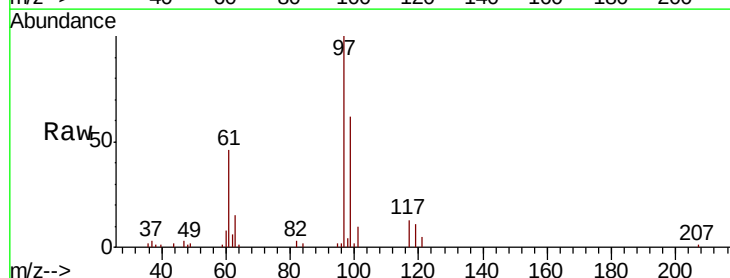
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VN0714WBSD01

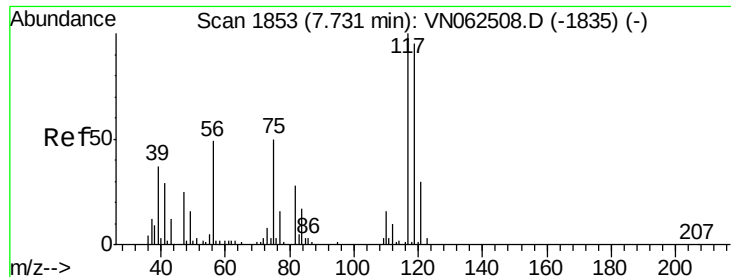
Tot Ion: 77 Resp: 72649  
 Ion Ratio Lower Upper  
 77 100  
 97 13.7 8.6 12.8#



#32  
 1,1,1-Trichloroethane  
 Concen: 16.565 ug/l  
 RT: 7.53 min Scan# 1791  
 Delta R.T. 0.00 min  
 Lab File: VN062524.D  
 Acq: 14 Jul 2020 12:00

Tgt Ion: 97 Resp: 72371  
 Ion Ratio Lower Upper  
 97 100  
 99 64.1 51.8 77.8  
 61 47.9 39.4 59.0

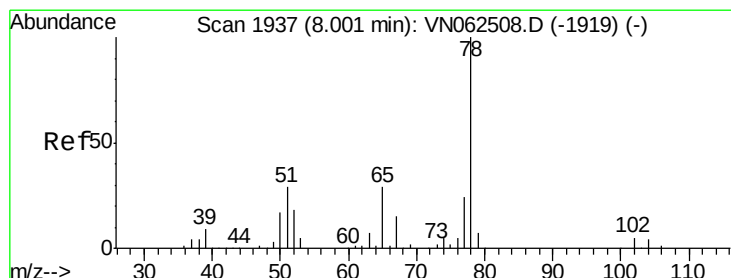
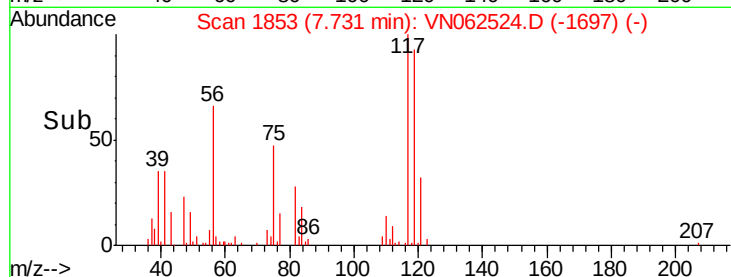
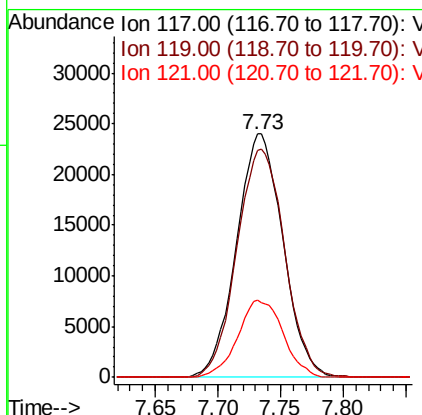
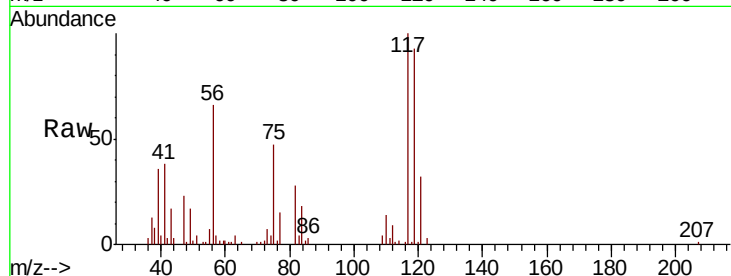




#33  
Carbon Tetrachloride  
Concen: 16.319 ug/l  
RT: 7.73 min Scan# 1853  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

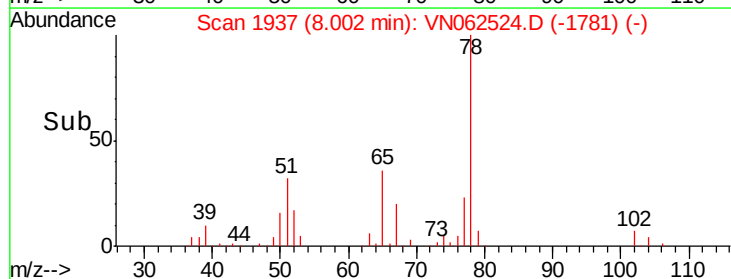
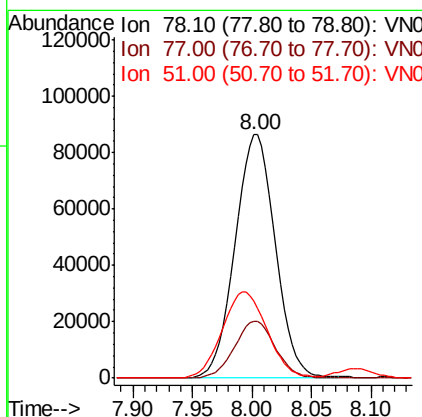
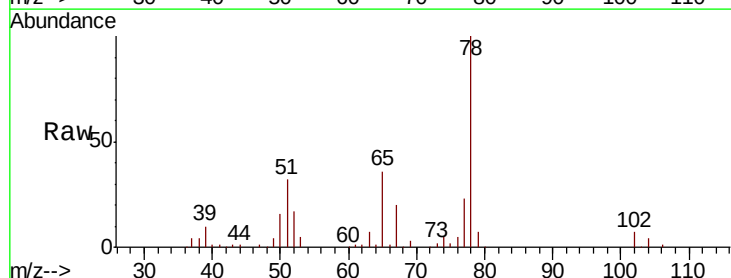
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0714WBSD01

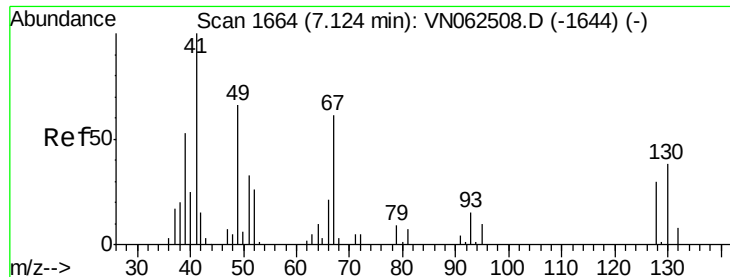
Tot Ion:117 Resp: 61803  
Ion Ratio Lower Upper  
117 100  
119 93.4 76.2 114.4  
121 31.6 23.8 35.6



#34  
Benzene  
Concen: 16.748 ug/l  
RT: 8.00 min Scan# 1937  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

Tgt Ion: 78 Resp: 202249  
Ion Ratio Lower Upper  
78 100  
77 23.3 18.9 28.3  
51 31.0 23.1 34.7

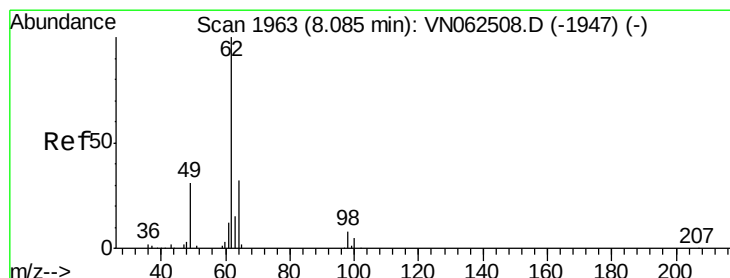
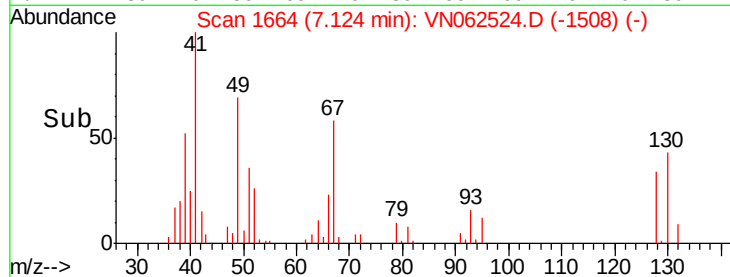
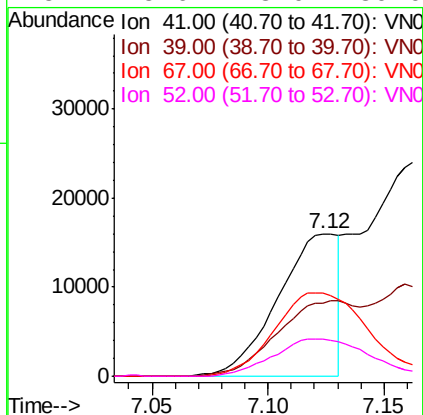
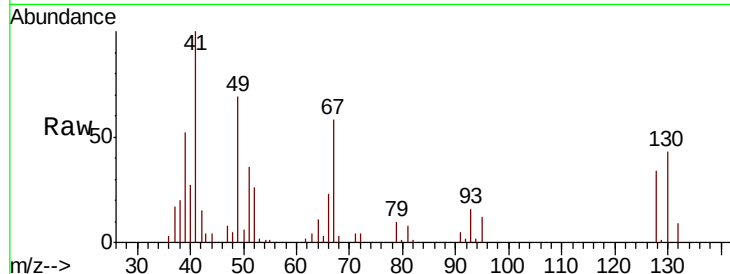




#35  
Methacrylonitrile  
Concen: 15.298 ug/l  
RT: 7.12 min Scan# 1664  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

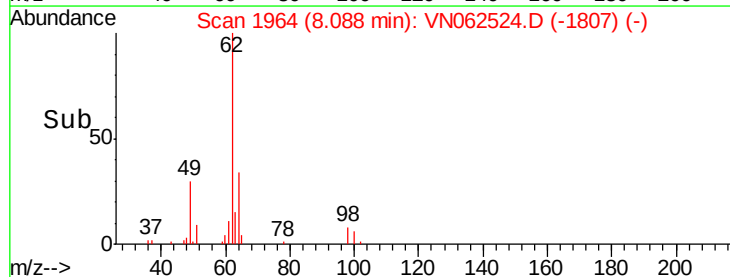
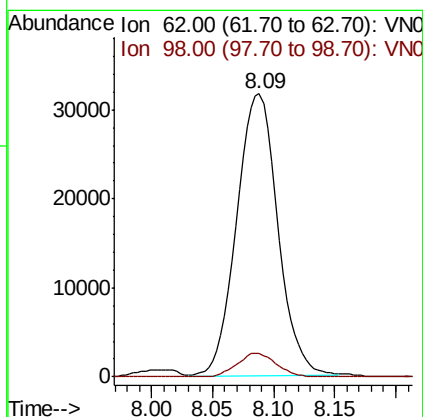
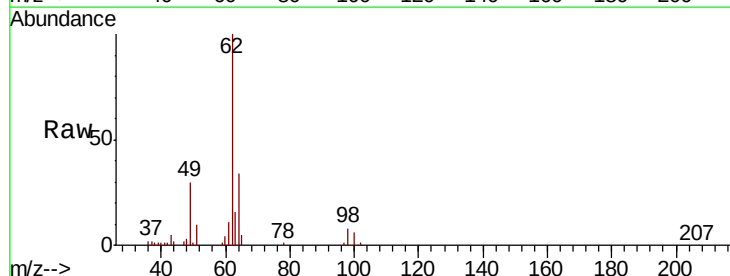
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0714WBSD01

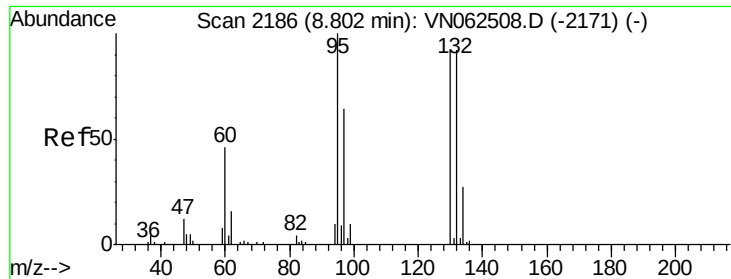
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 28968 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 51.6  | 26.5  | 79.5  |
| 67       | 58.1  | 30.7  | 92.1  |
| 52       | 25.6  | 13.0  | 39.0  |



#36  
1,2-Dichloroethane  
Concen: 17.004 ug/l  
RT: 8.09 min Scan# 1964  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 73806 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 7.9   | 6.6   | 9.8   |





#37

Trichloroethene

Concen: 16.610 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

Instrument :

MSVOA\_N

ClientSampled :

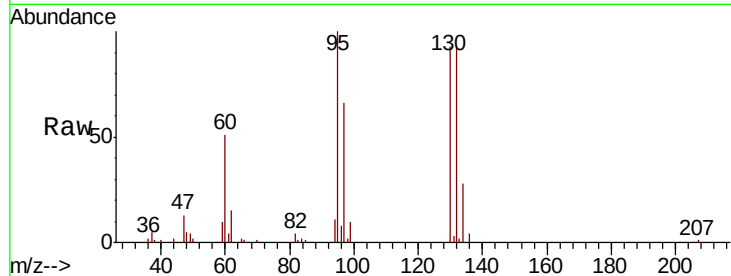
VN0714WBSD01

Tot Ion:130 Resp: 45054

Ion Ratio Lower Upper

130 100

95 107.4 86.5 129.7



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN

8.80

25000

20000

15000

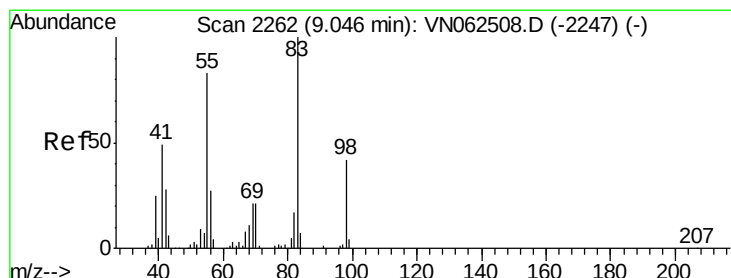
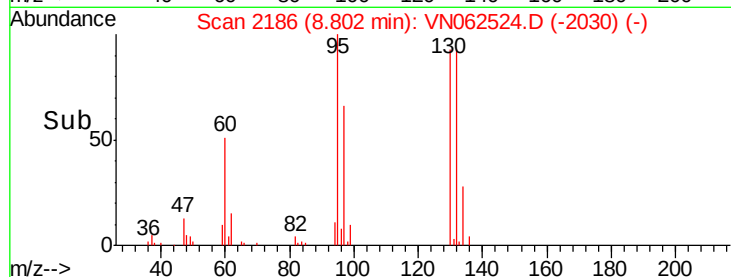
10000

5000

0

8.75 8.80 8.85

Time-->



#38

Methylcyclohexane

Concen: 15.215 ug/l

RT: 9.05 min Scan# 2262

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

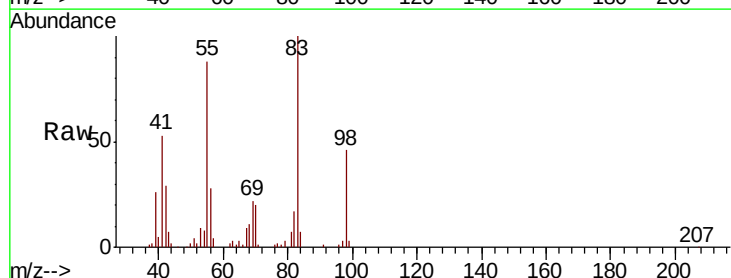
Tgt Ion: 83 Resp: 69380

Ion Ratio Lower Upper

83 100

55 86.2 42.8 128.3

98 43.4 21.9 65.7



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

40000

30000

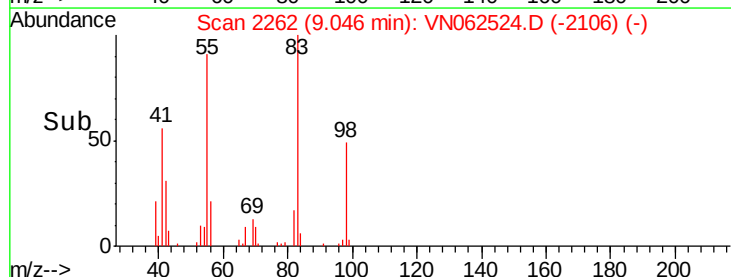
20000

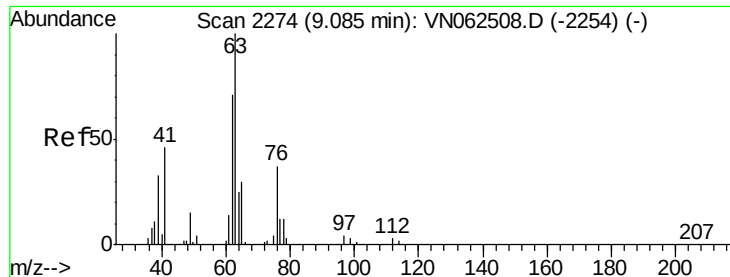
10000

0

8.95 9.00 9.05 9.10 9.15

Time-->





#39

1,2-Dichloropropane

Concen: 17.003 ug/l

RT: 9.09 min Scan# 2274

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

Instrument :

MSVOA\_N

ClientSampleId :

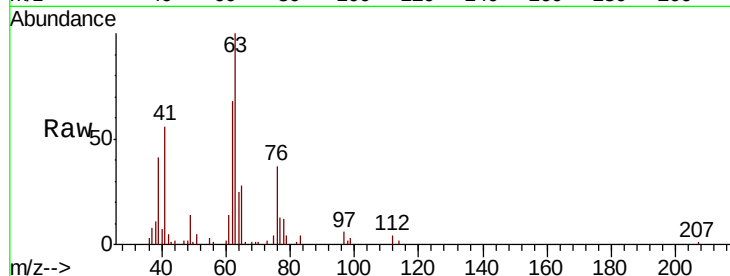
VN0714WBSD01

Tot Ion: 63 Resp: 58498

Ion Ratio Lower Upper

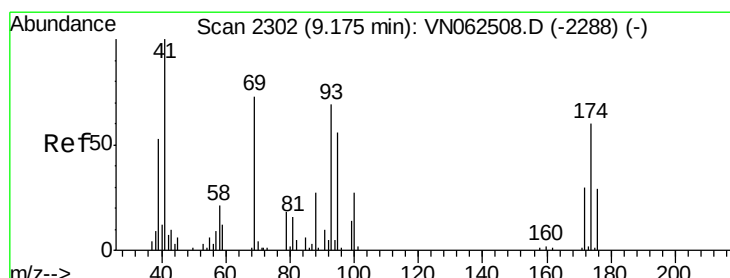
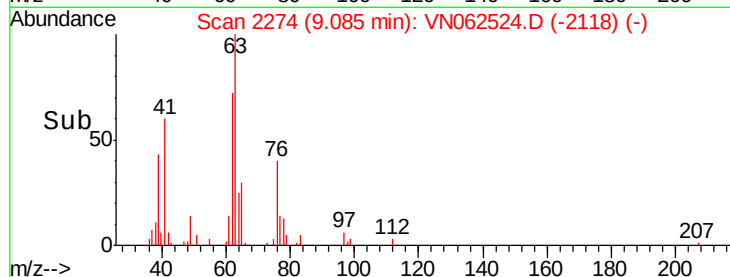
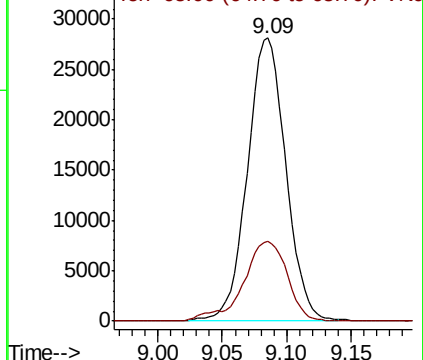
63 100

65 28.2 24.2 36.4



Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0



#40

Dibromomethane

Concen: 17.096 ug/l

RT: 9.18 min Scan# 2302

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

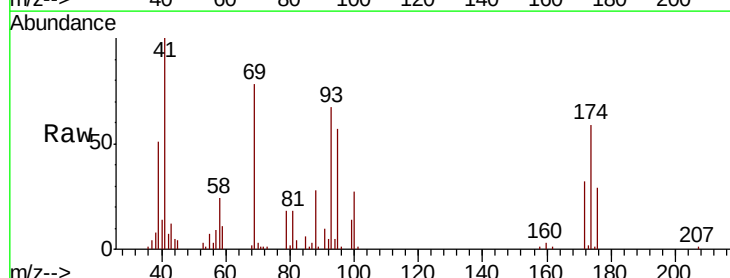
Tgt Ion: 93 Resp: 33898

Ion Ratio Lower Upper

93 100

95 83.7 0.0 161.2

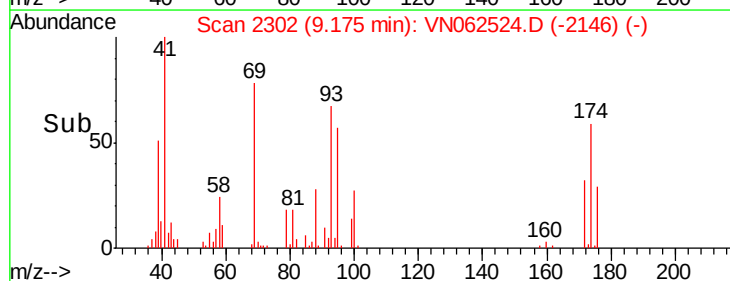
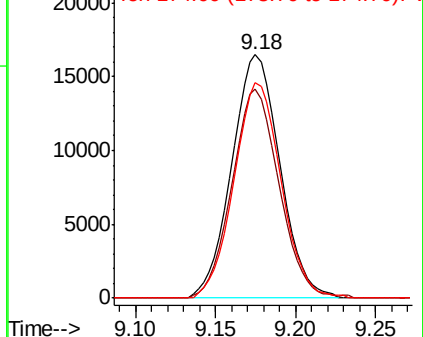
174 86.5 0.0 178.0



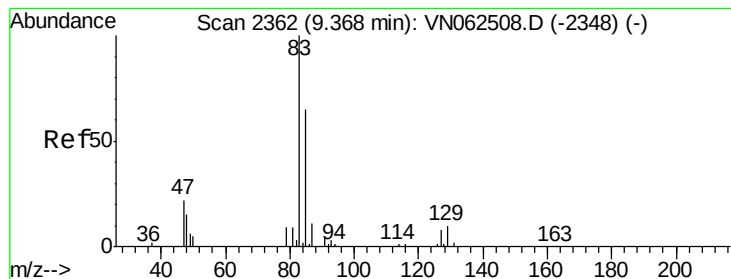
Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V







#41

Bromodichloromethane

Concen: 16.915 ug/l

RT: 9.37 min Scan# 2363

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

Instrument :

MSVOA\_N

ClientSampleId :

VN0714WBSD01

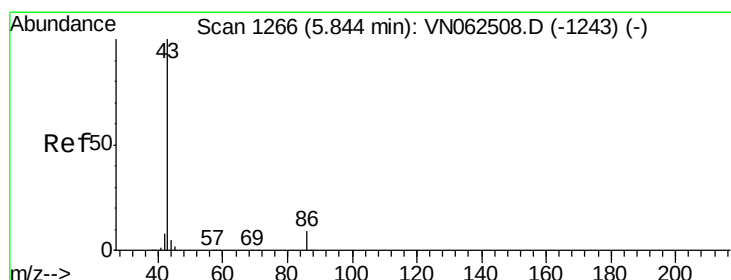
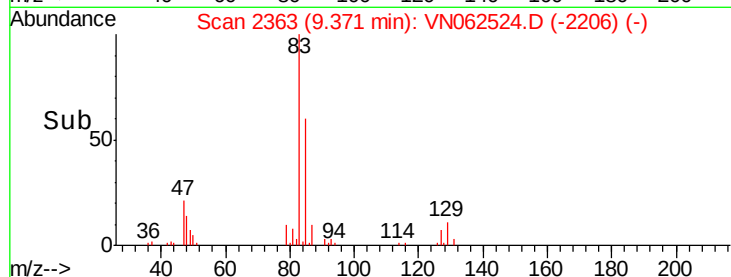
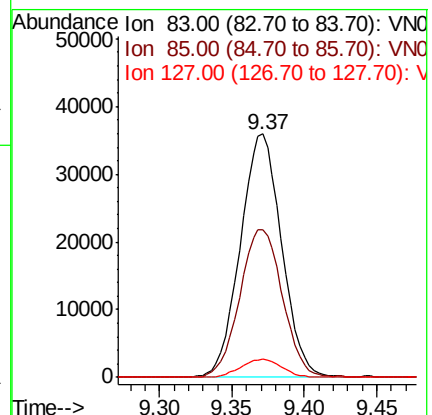
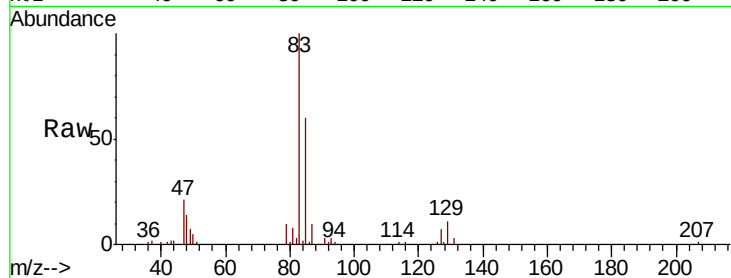
Tot Ion: 83 Resp: 71134

Ion Ratio Lower Upper

83 100

85 60.5 51.6 77.4

127 7.4 6.3 9.5



#42

Vinyl Acetate

Concen: 85.567 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VN062524.D

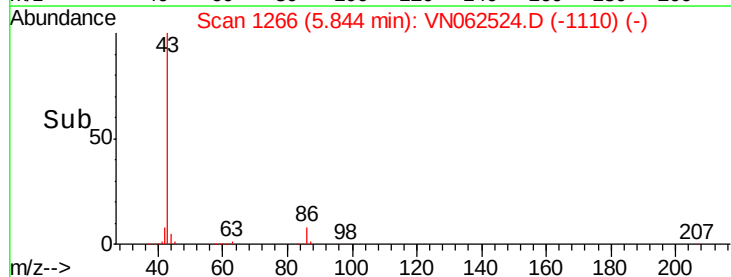
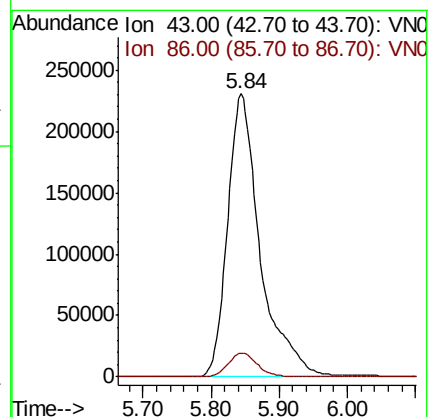
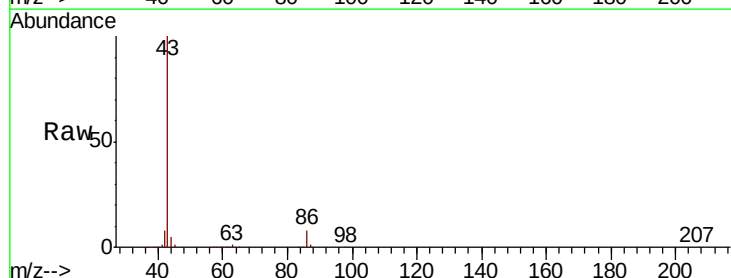
Acq: 14 Jul 2020 12:00

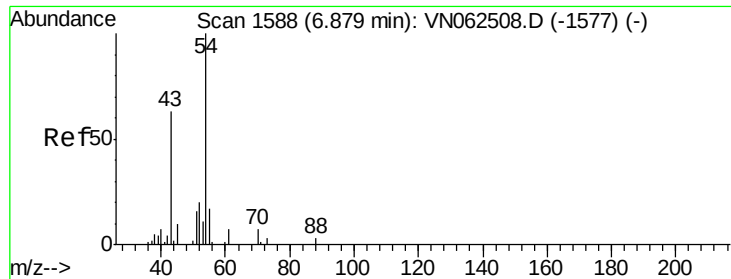
Tgt Ion: 43 Resp: 766519

Ion Ratio Lower Upper

43 100

86 3.6 6.1 9.1#

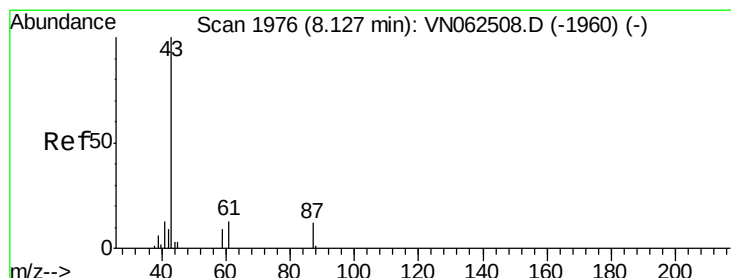
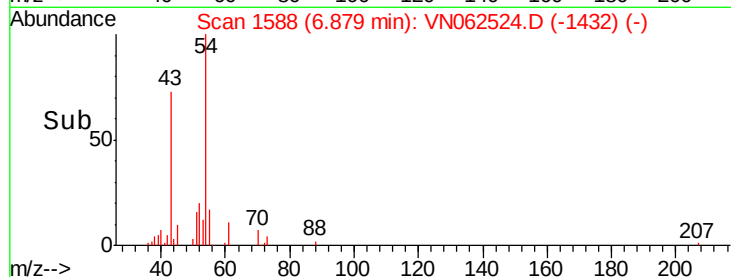
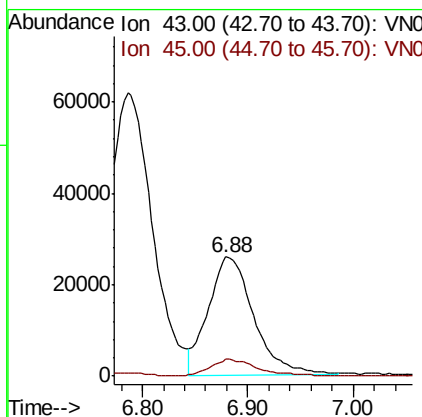
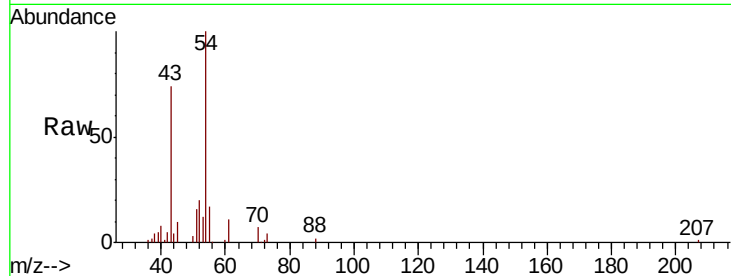




#43  
Ethyl Acetate  
Concen: 17.836 ug/l  
RT: 6.88 min Scan# 1588  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

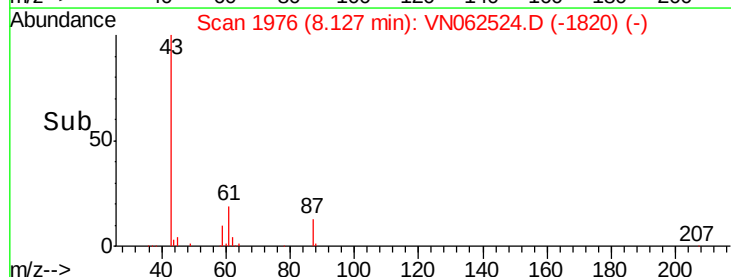
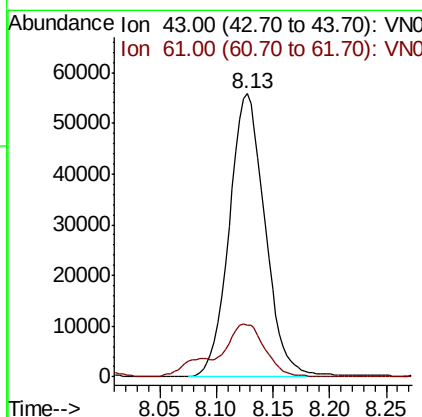
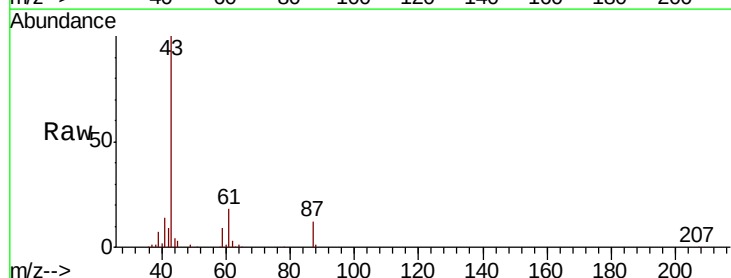
Instrument :  
MSVOA\_N  
ClientSampled :  
VN0714WBSD01

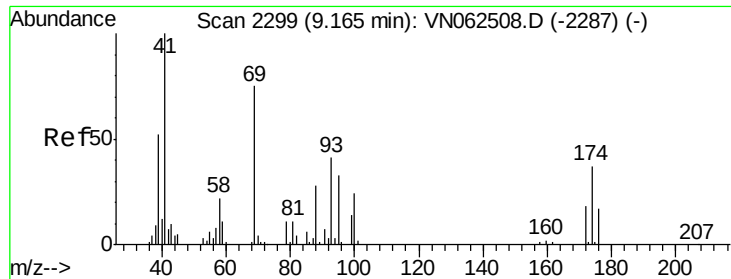
Tot Ion: 43 Resp: 77302  
Ion Ratio Lower Upper  
43 100  
45 15.0 10.2 15.4



#44  
Isopropyl Acetate  
Concen: 16.941 ug/l  
RT: 8.13 min Scan# 1976  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

Tgt Ion: 43 Resp: 123192  
Ion Ratio Lower Upper  
43 100  
61 19.5 14.7 22.1

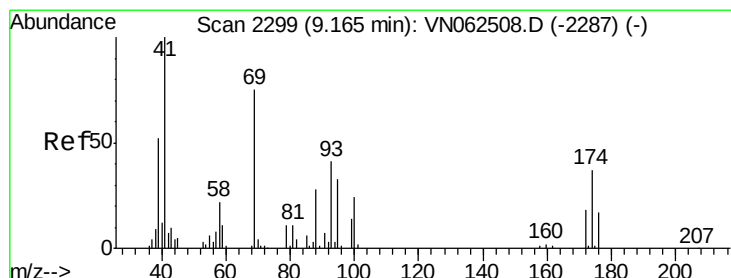
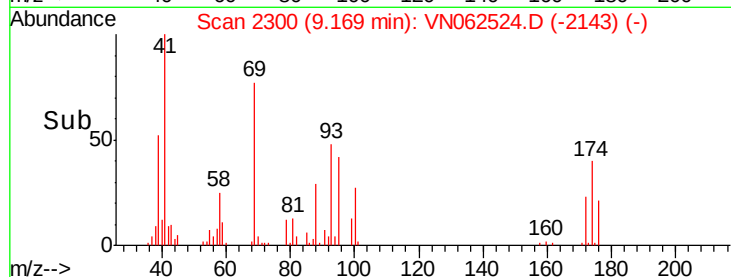
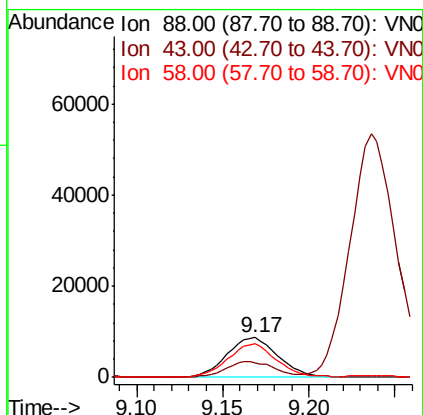
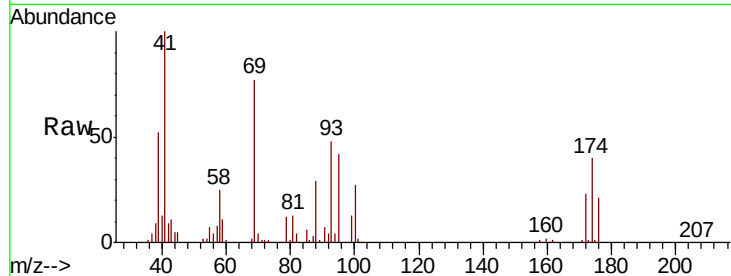




#45  
 1,4-Dioxane  
 Concen: 363.470 ug/l  
 RT: 9.17 min Scan# 2300  
 Delta R.T. 0.00 min  
 Lab File: VN062524.D  
 Acq: 14 Jul 2020 12:00

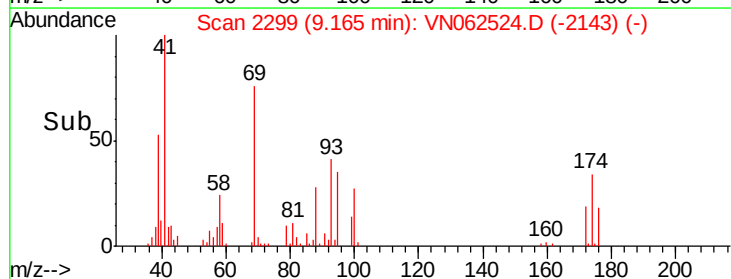
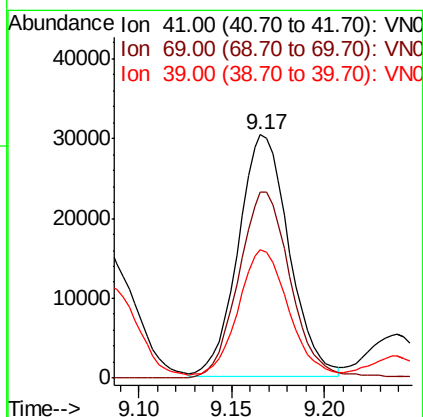
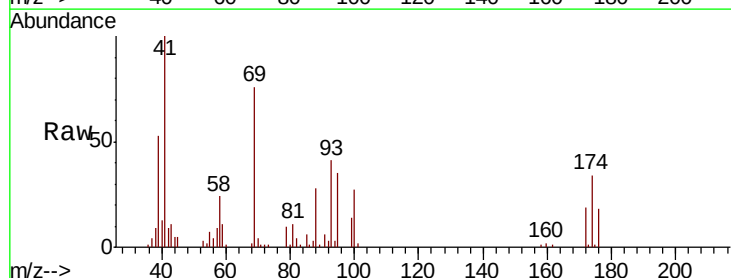
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0714WBSD01

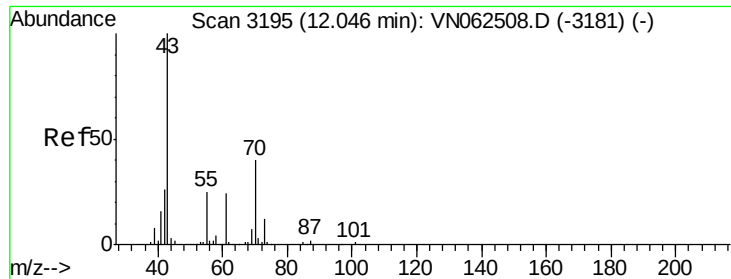
Tot Ion: 88 Resp: 18080  
 Ion Ratio Lower Upper  
 88 100  
 43 38.4 29.2 43.8  
 58 81.0 62.2 93.4



#46  
 Methyl methacrylate  
 Concen: 16.787 ug/l  
 RT: 9.17 min Scan# 2299  
 Delta R.T. 0.00 min  
 Lab File: VN062524.D  
 Acq: 14 Jul 2020 12:00

Tgt Ion: 41 Resp: 57912  
 Ion Ratio Lower Upper  
 41 100  
 69 77.8 37.4 112.2  
 39 52.1 25.9 77.6

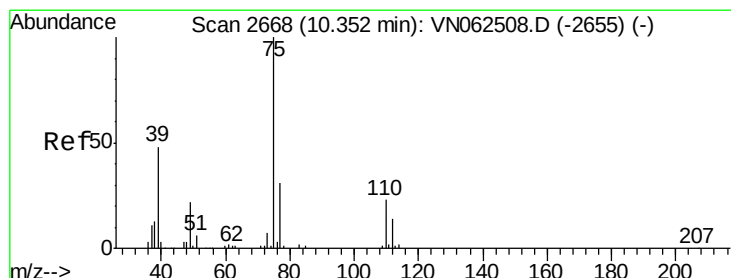
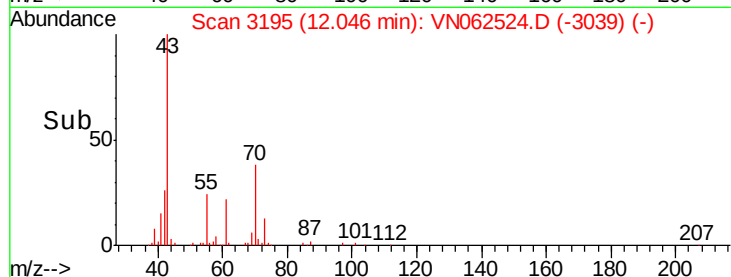
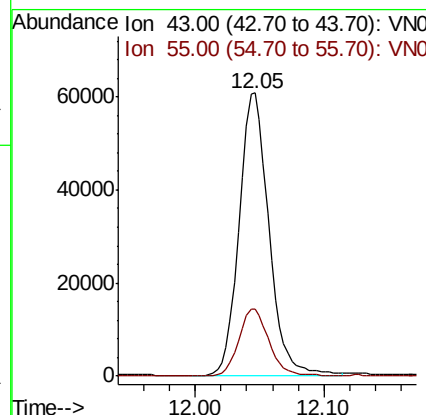
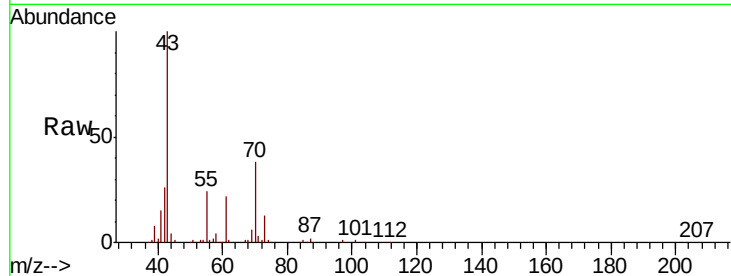




#47  
n-amyl Acetate  
Concen: 16.056 ug/l  
RT: 12.05 min Scan# 3195  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

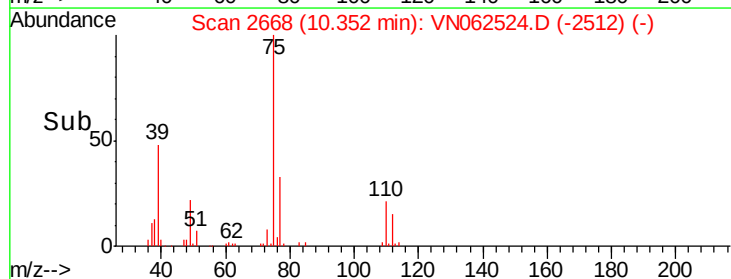
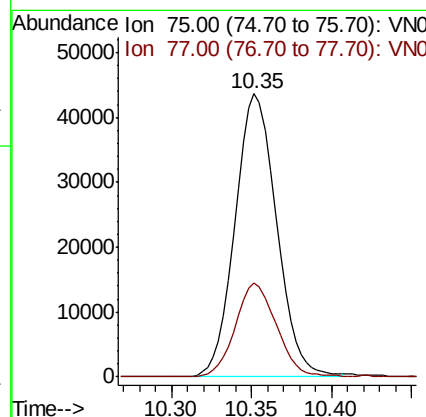
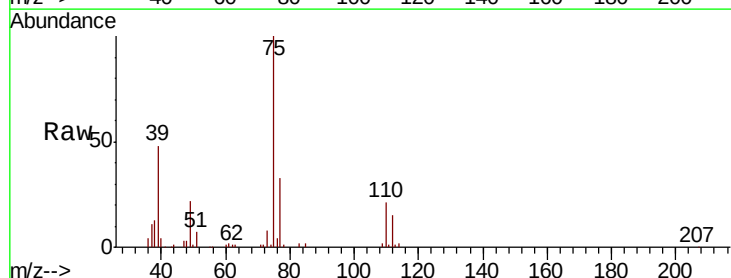
Instrument :  
MSVOA\_N  
ClientSampled :  
VN0714WBSD01

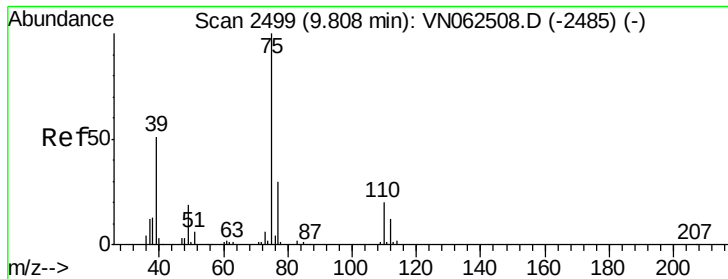
Tot Ion: 43 Resp: 98418  
Ion Ratio Lower Upper  
43 100  
55 24.1 20.4 30.6



#48  
t-1,3-Dichloropropene  
Concen: 15.812 ug/l  
RT: 10.35 min Scan# 2668  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

Tgt Ion: 75 Resp: 77561  
Ion Ratio Lower Upper  
75 100  
77 33.1 25.0 37.4





#49

cis-1,3-Dichloropropene

Concen: 16.323 ug/l

RT: 9.81 min Scan# 2499

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

Instrument :

MSVOA\_N

ClientSampleId :

VN0714WBSD01

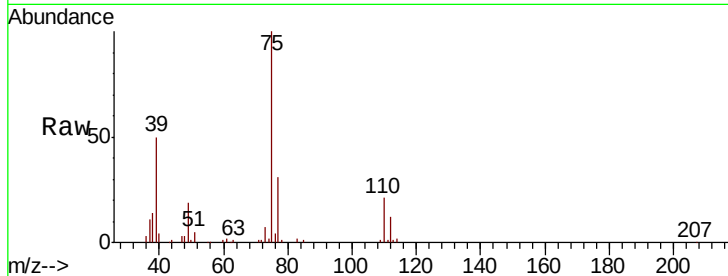
Tot Ion: 75 Resp: 86430

Ion Ratio Lower Upper

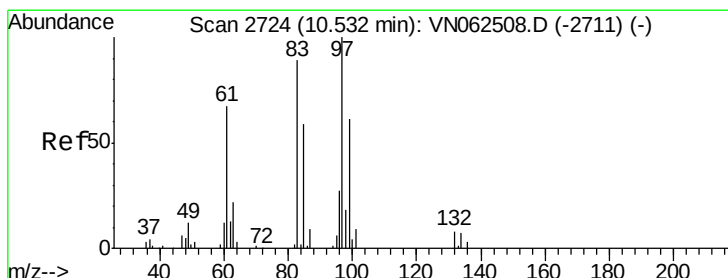
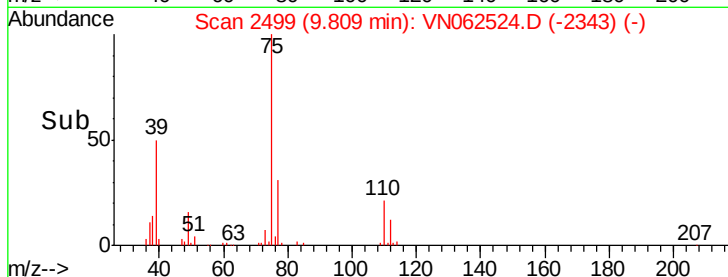
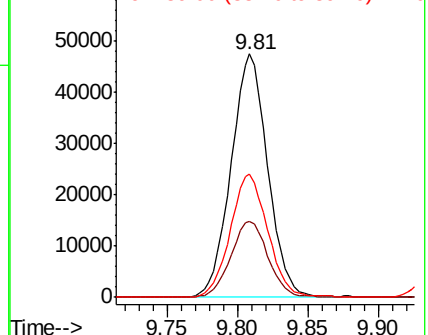
75 100

77 31.4 23.7 35.5

39 50.4 40.5 60.7



Abundance Ion 75.00 (74.70 to 75.70): VN0  
Ion 77.00 (76.70 to 77.70): VN0  
Ion 39.00 (38.70 to 39.70): VN0



#50

1,1,2-Trichloroethane

Concen: 17.586 ug/l

RT: 10.53 min Scan# 2724

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

Tgt Ion: 97 Resp: 48875

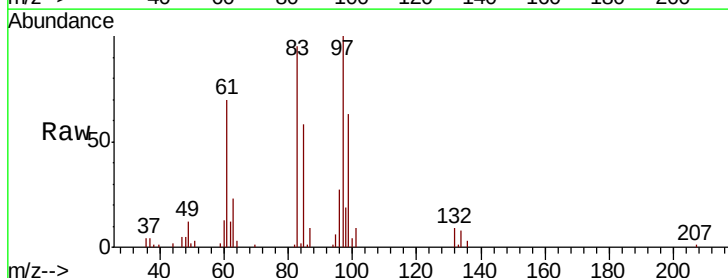
Ion Ratio Lower Upper

97 100

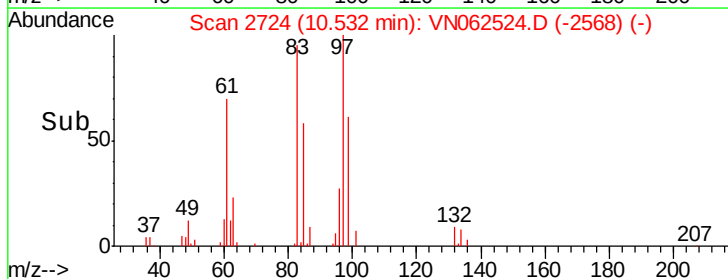
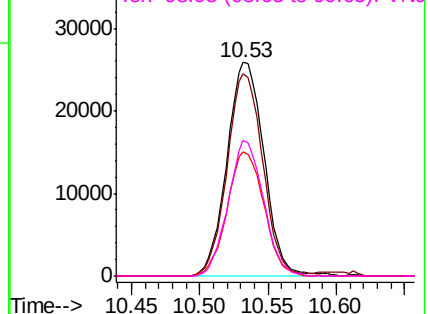
83 94.6 71.3 106.9

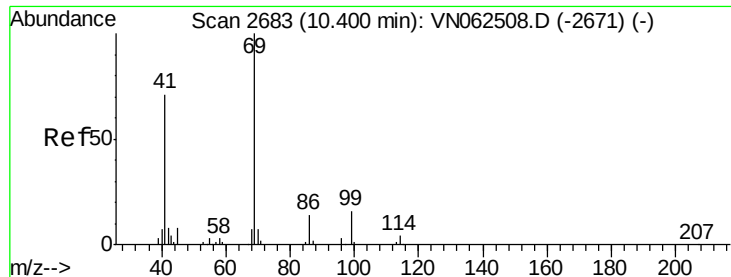
85 58.3 47.2 70.8

99 63.3 48.4 72.6



Abundance Ion 97.00 (96.70 to 97.70): VN0  
Ion 82.95 (82.65 to 83.65): VN0  
Ion 84.95 (84.65 to 85.65): VN0  
Ion 98.95 (98.65 to 99.65): VN0





#51

Ethyl methacrylate

Concen: 16.301 ug/l

RT: 10.40 min Scan# 2683

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

Instrument :

MSVOA\_N

ClientSampleId :

VN0714WBSD01

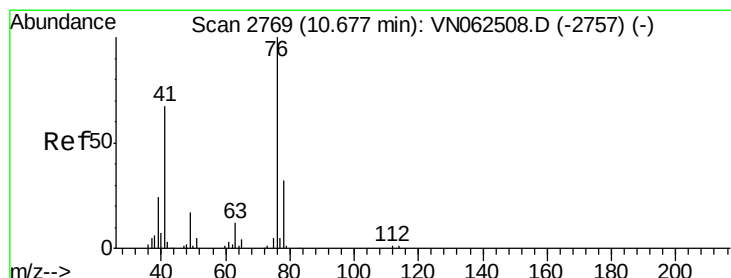
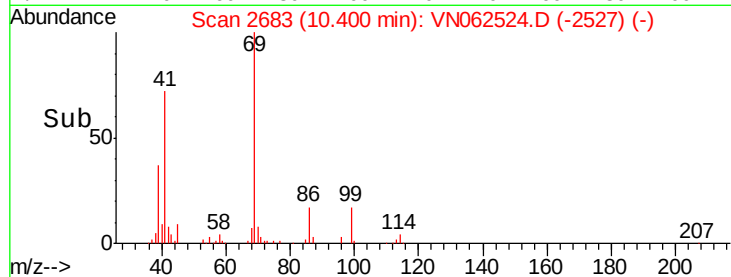
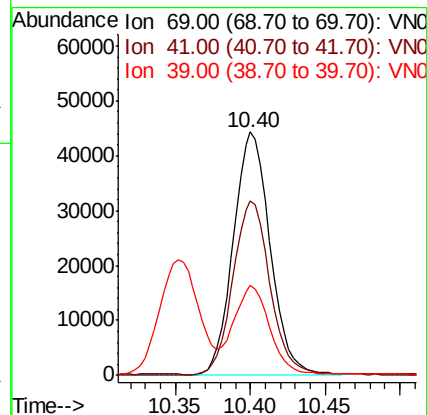
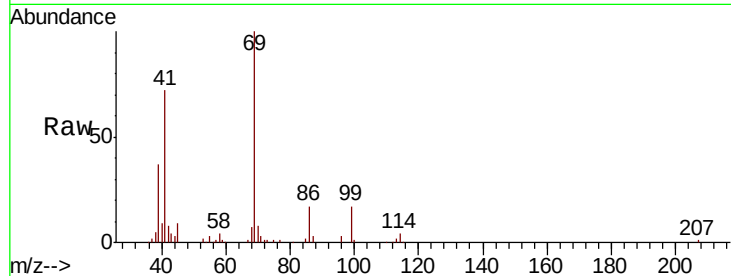
Tot Ion: 69 Resp: 76278

Ion Ratio Lower Upper

69 100

41 71.5 35.6 106.8

39 36.2 17.2 51.5



#52

1,3-Dichloropropane

Concen: 16.980 ug/l

RT: 10.68 min Scan# 2770

Delta R.T. 0.00 min

Lab File: VN062524.D

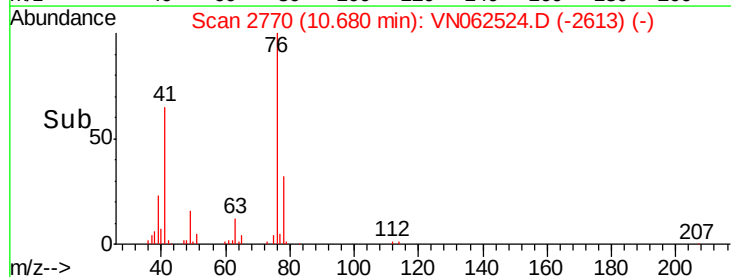
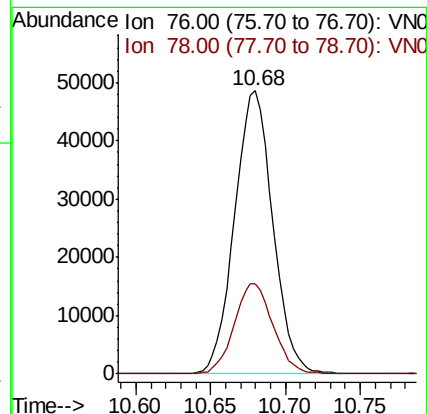
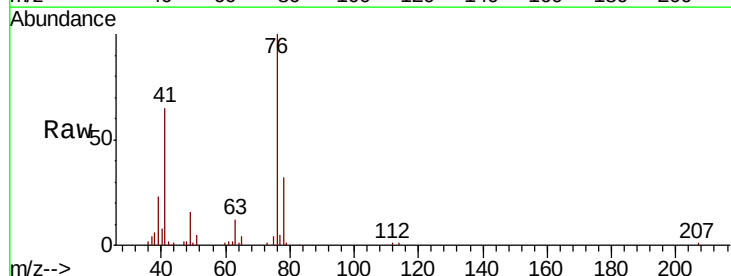
Acq: 14 Jul 2020 12:00

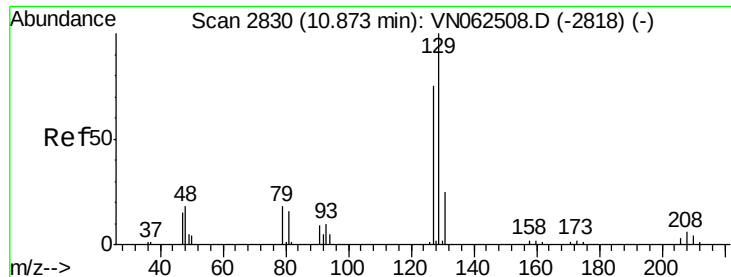
Tgt Ion: 76 Resp: 86613

Ion Ratio Lower Upper

76 100

78 32.1 0.0 63.6

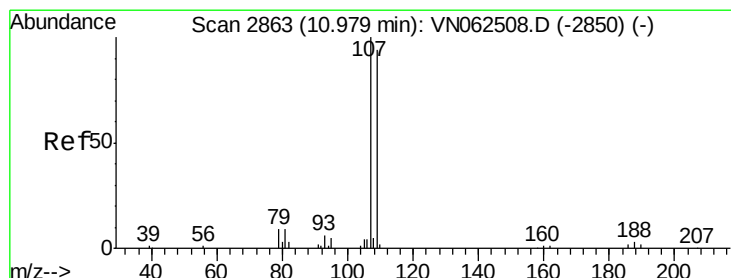
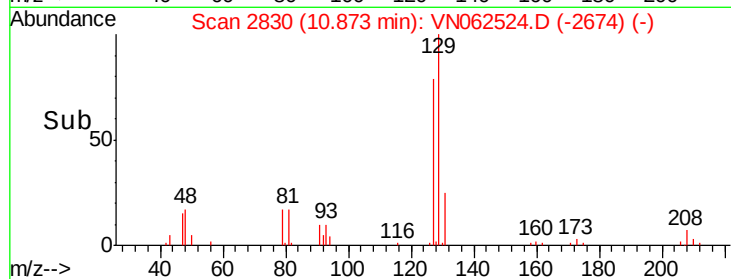
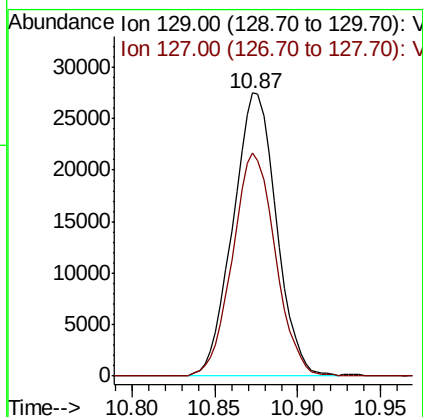
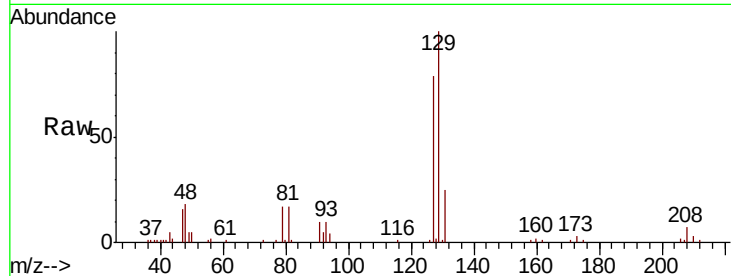




#53  
 Dibromochloromethane  
 Concen: 16.557 ug/l  
 RT: 10.87 min Scan# 2830  
 Delta R.T. 0.00 min  
 Lab File: VN062524.D  
 Acq: 14 Jul 2020 12:00

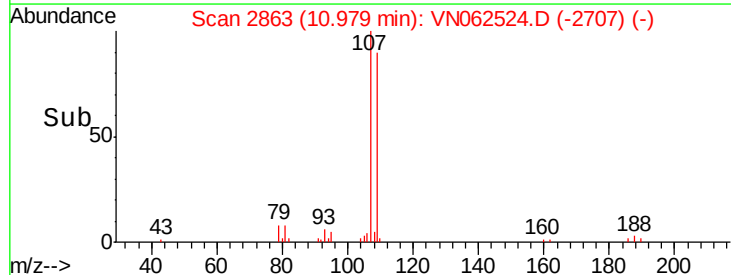
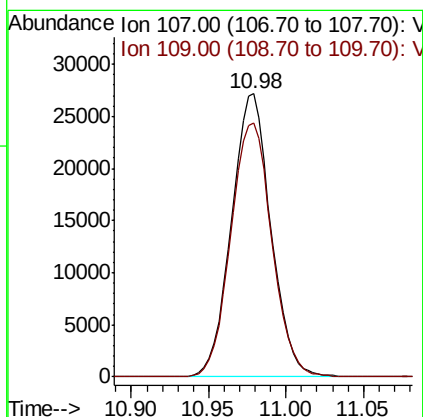
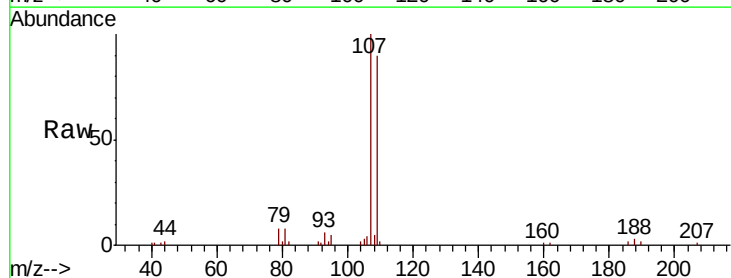
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0714WBSD01

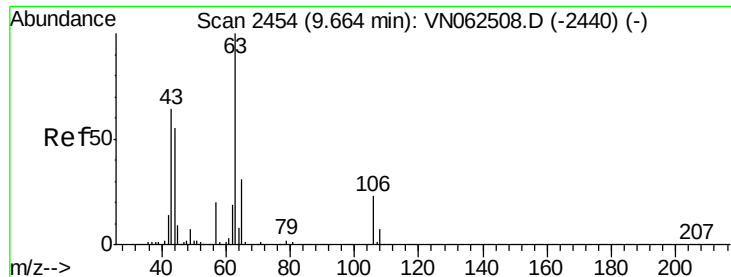
Tot Ion:129 Resp: 50135  
 Ion Ratio Lower Upper  
 129 100  
 127 77.6 38.1 114.5



#54  
 1,2-Dibromoethane  
 Concen: 16.877 ug/l  
 RT: 10.98 min Scan# 2863  
 Delta R.T. 0.00 min  
 Lab File: VN062524.D  
 Acq: 14 Jul 2020 12:00

Tgt Ion:107 Resp: 48009  
 Ion Ratio Lower Upper  
 107 100  
 109 93.4 74.8 112.2

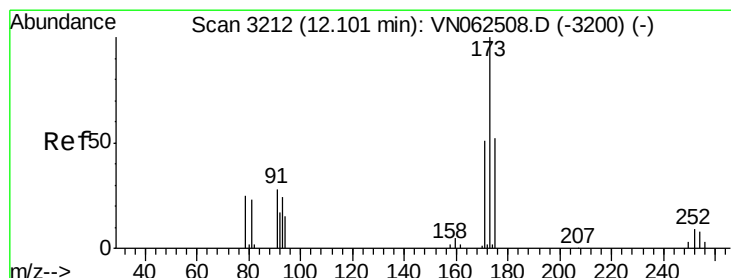
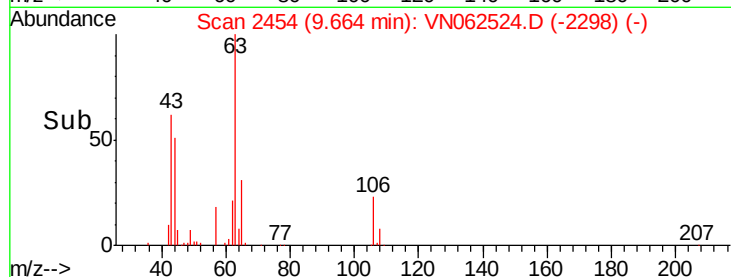
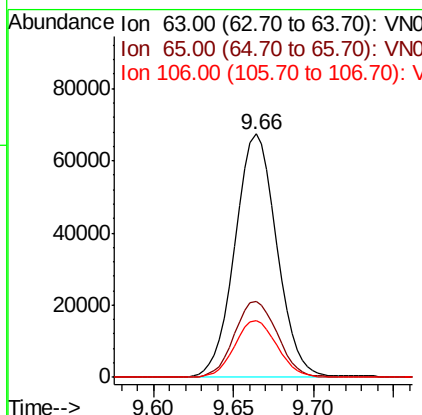
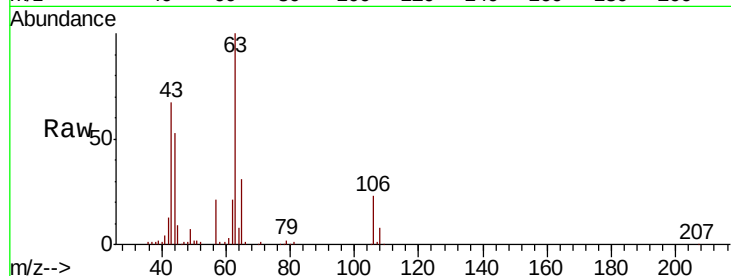




#55  
2-Chloroethyl vinyl ether  
Concen: 80.451 ug/l  
RT: 9.66 min Scan# 2454  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

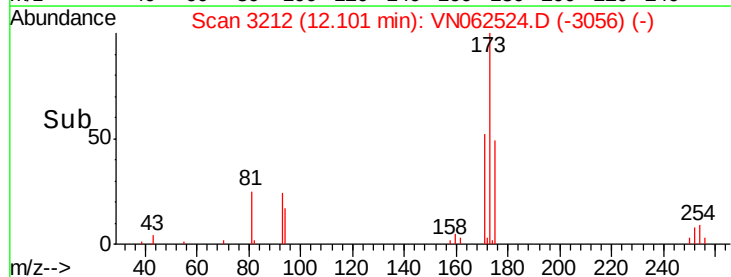
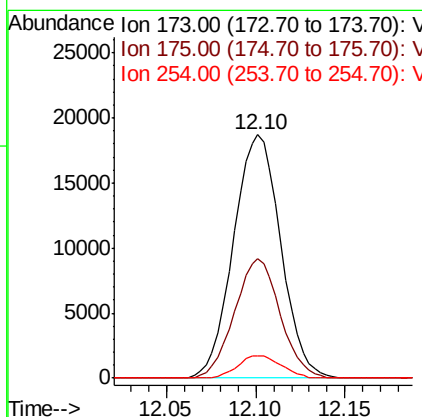
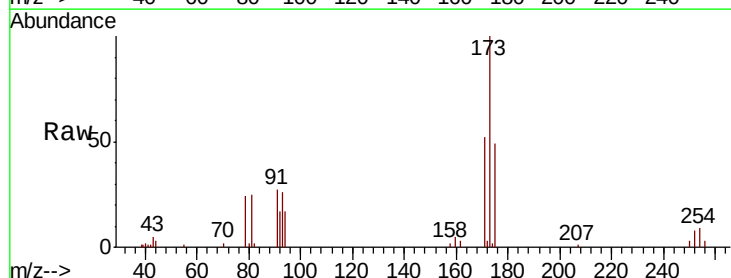
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0714WBSD01

Tot Ion: 63 Resp: 120238  
Ion Ratio Lower Upper  
63 100  
65 32.2 25.4 38.2  
106 23.7 18.4 27.6

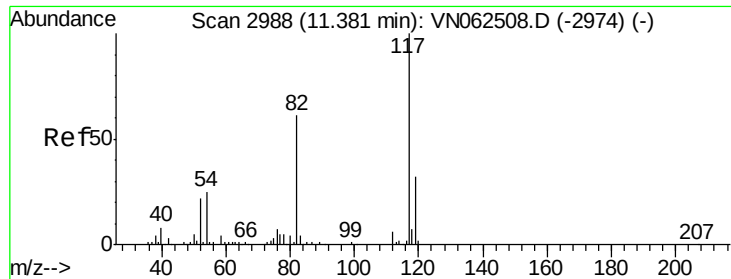


#56  
Bromoform  
Concen: 16.682 ug/l  
RT: 12.10 min Scan# 3212  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

Tgt Ion: 173 Resp: 34502  
Ion Ratio Lower Upper  
173 100  
175 47.3 38.1 57.1  
254 8.3 6.2 9.2



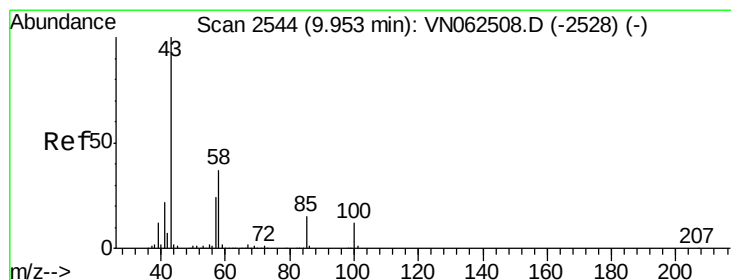
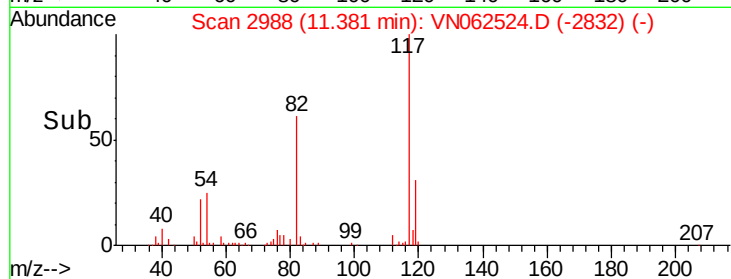
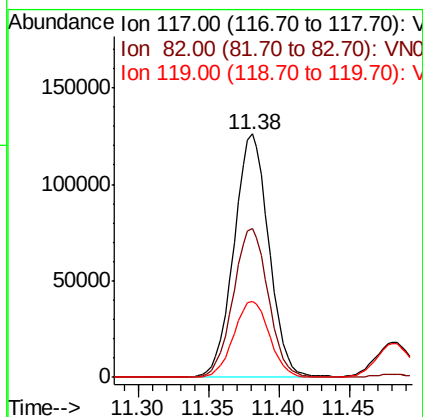
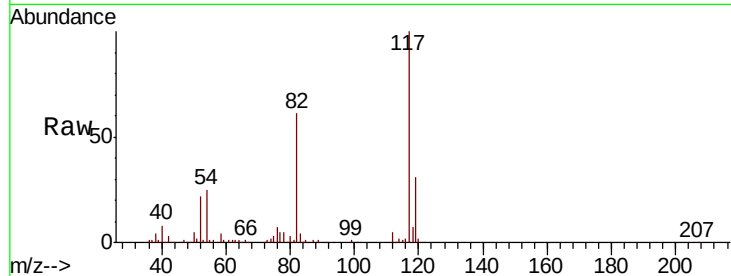




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.38 min Scan# 2988  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

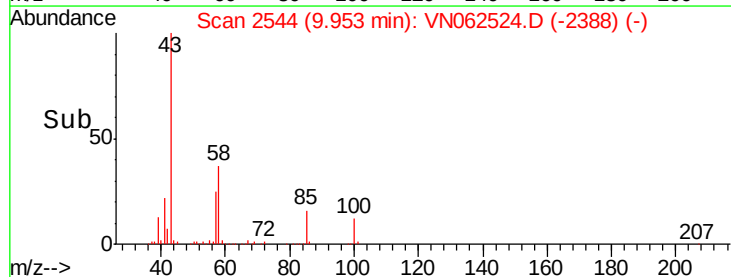
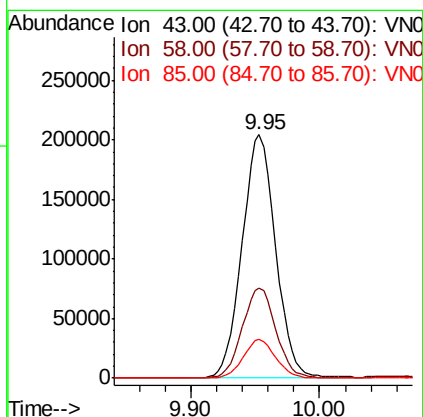
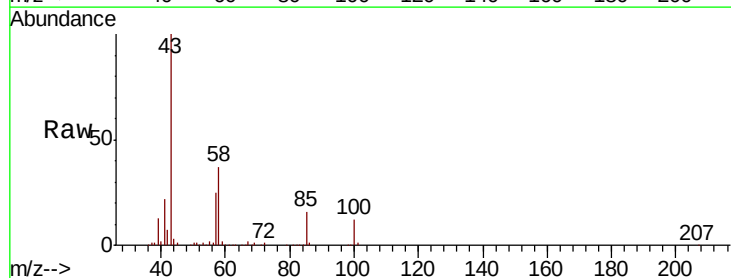
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0714WBSD01

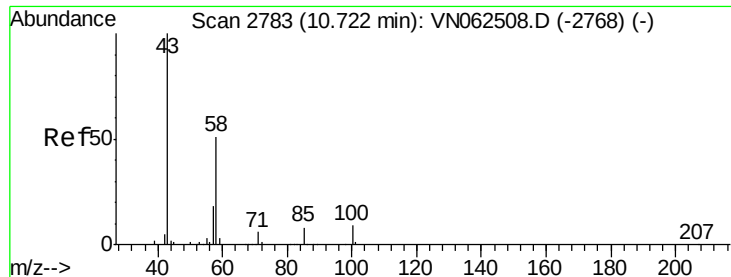
Tot Ion:117 Resp: 218758  
Ion Ratio Lower Upper  
117 100  
82 61.5 49.0 73.6  
119 31.9 25.6 38.4



#58  
4-Methyl-2-Pentanone  
Concen: 86.970 ug/l  
RT: 9.95 min Scan# 2544  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

Tgt Ion: 43 Resp: 370674  
Ion Ratio Lower Upper  
43 100  
58 37.4 29.6 44.4  
85 15.3 12.0 18.0

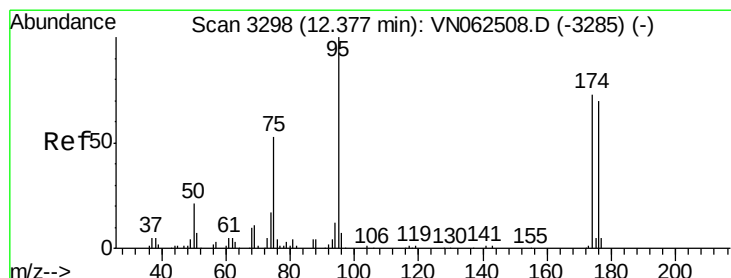
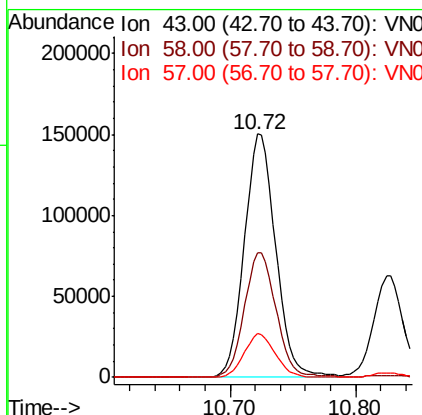
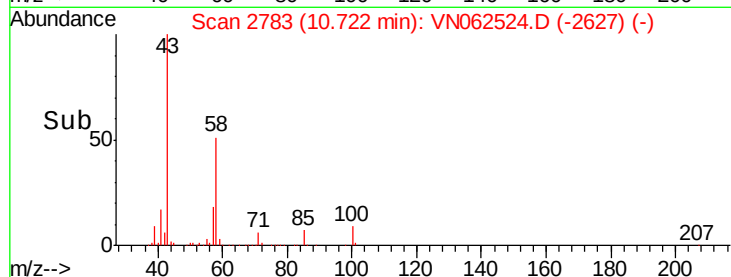
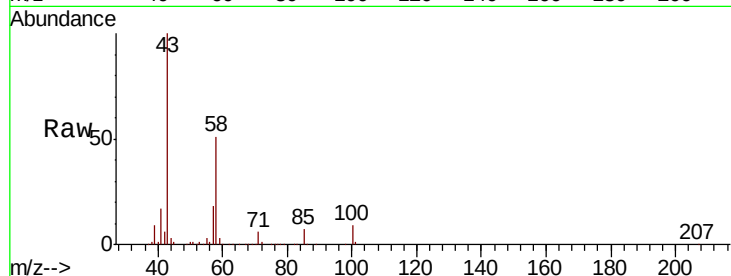




#59  
2-Hexanone  
Concen: 83.816 ug/l  
RT: 10.72 min Scan# 2783  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

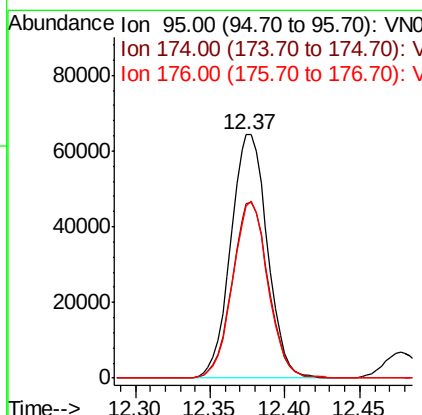
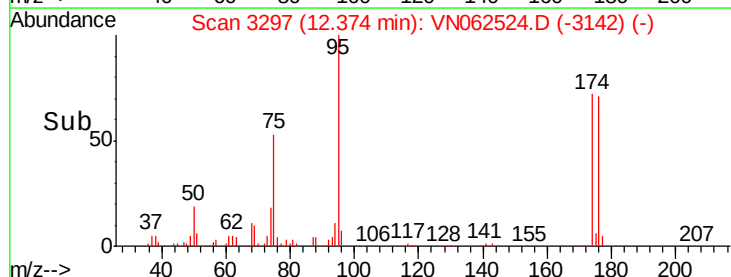
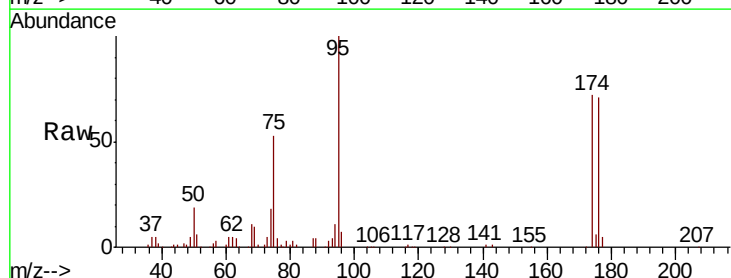
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0714WBSD01

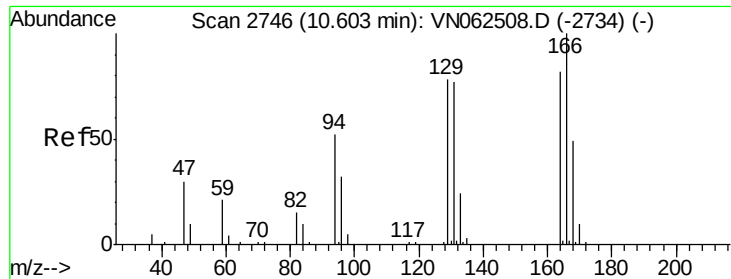
Tot Ion: 43 Resp: 261994  
Ion Ratio Lower Upper  
43 100  
58 51.9 41.2 61.8  
57 17.8 14.4 21.6



#60  
4-Bromofluorobenzene  
Concen: 29.501 ug/l  
RT: 12.37 min Scan# 3297  
Delta R.T. -0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

Tgt Ion: 95 Resp: 109825  
Ion Ratio Lower Upper  
95 100  
174 71.3 57.5 86.3  
176 70.0 56.3 84.5





#61

Tetrachloroethene

Concen: 17.239 ug/l

RT: 10.60 min Scan# 2746

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

Instrument :

MSVOA\_N

ClientSampleId :

VN0714WBSD01

Tot Ion:164 Resp: 38619

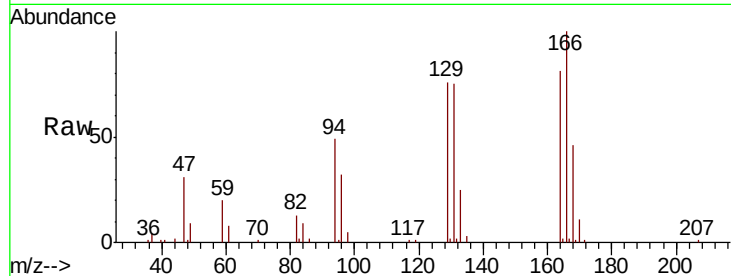
Ion Ratio Lower Upper

164 100

166 124.2 97.7 146.5

129 93.5 77.0 115.4

131 92.6 75.0 112.6

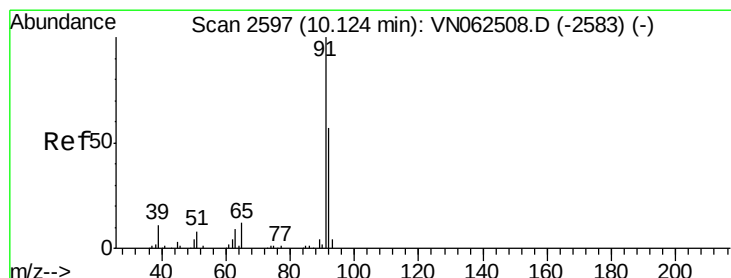
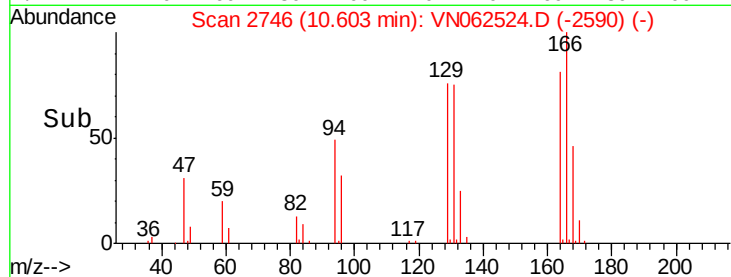
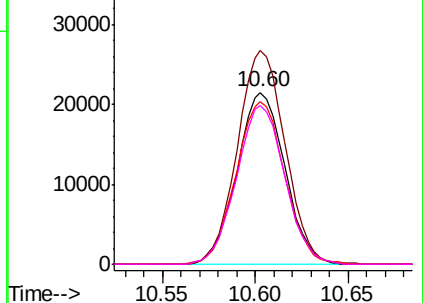


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 16.688 ug/l

RT: 10.12 min Scan# 2597

Delta R.T. 0.00 min

Lab File: VN062524.D

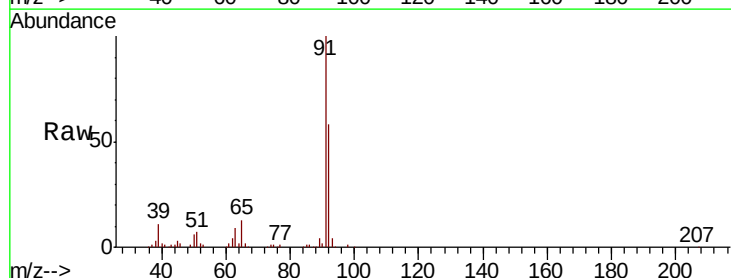
Acq: 14 Jul 2020 12:00

Tgt Ion: 91 Resp: 207106

Ion Ratio Lower Upper

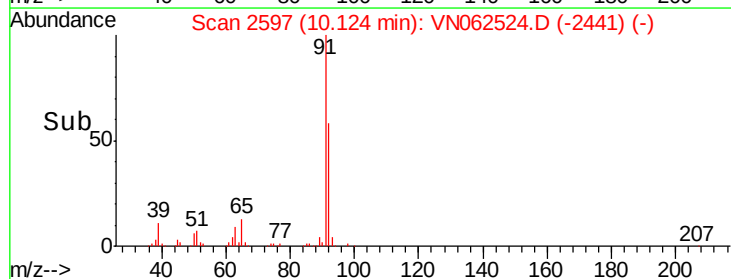
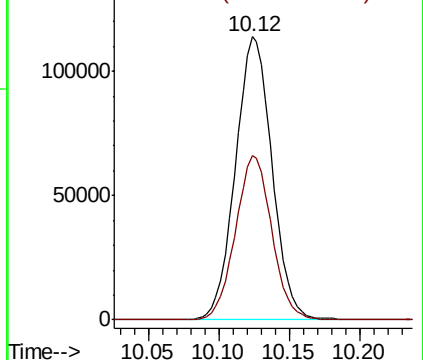
91 100

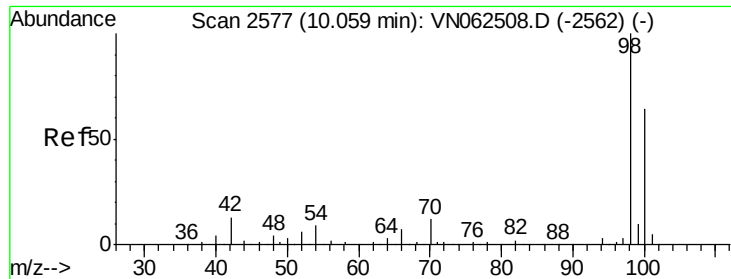
92 57.5 45.8 68.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0





#63

Toluene-d8

Concen: 30.323 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

Instrument :

MSVOA\_N

ClientSampleId :

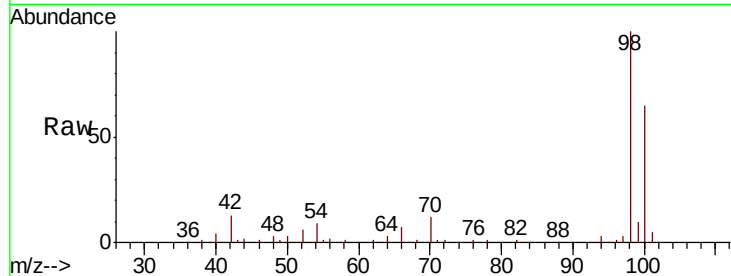
VN0714WBSD01

Tot Ion: 98 Resp: 313447

Ion Ratio Lower Upper

98 100

100 63.1 50.4 75.6



Abundance Ion 98.00 (97.70 to 98.70): VN062508.D (-2562) (-)

Ion 100.00 (99.70 to 100.70): VN062524.D (-2421) (-)

200000

150000

100000

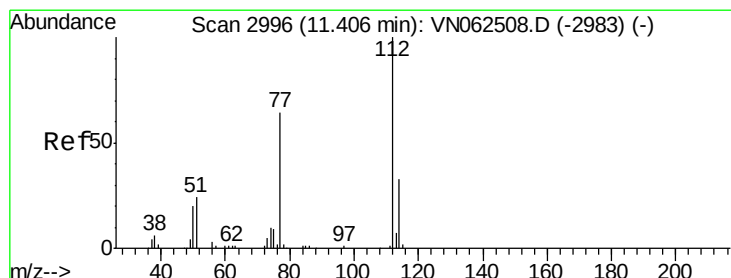
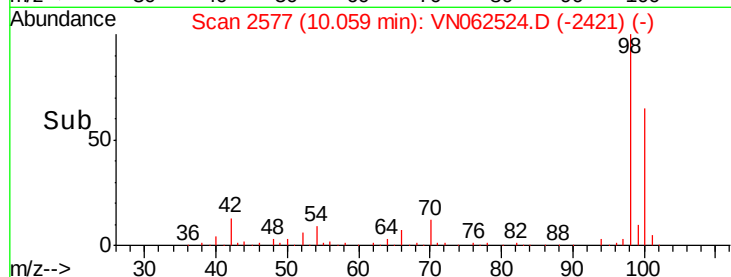
50000

0

10.06

10.10

Time-->



#64

Chlorobenzene

Concen: 16.584 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN062524.D

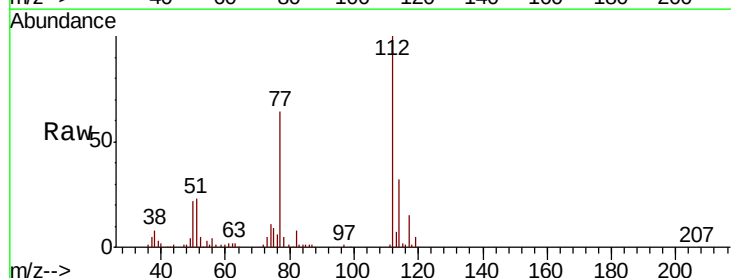
Acq: 14 Jul 2020 12:00

Tgt Ion: 112 Resp: 120941

Ion Ratio Lower Upper

112 100

114 32.1 26.0 39.0



Abundance Ion 112.00 (111.70 to 112.70): VN062508.D (-2983) (-)

Ion 114.00 (113.70 to 114.70): VN062524.D (-2840) (-)

80000

60000

40000

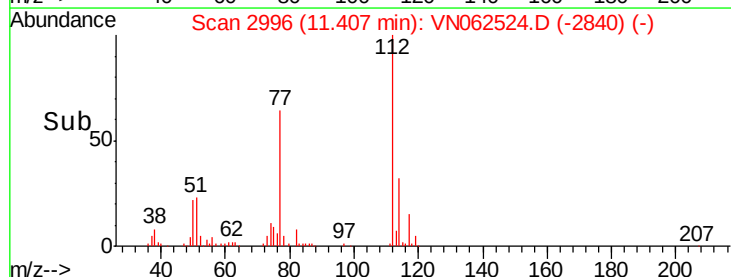
20000

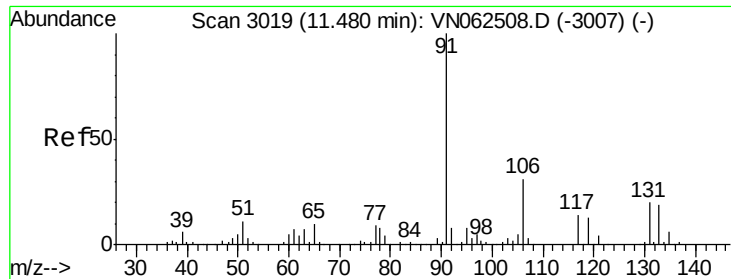
0

11.41

11.45

Time-->





#65

1,1,1,2-Tetrachloroethane

Concen: 17.195 ug/l

RT: 11.48 min Scan# 3019

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

Instrument :

MSVOA\_N

ClientSampled :

VN0714WBSD01

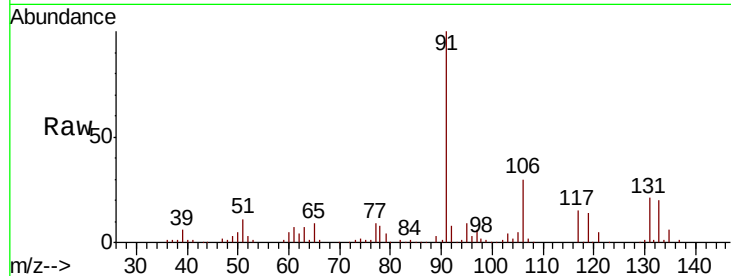
Tot Ion:131 Resp: 46414

Ion Ratio Lower Upper

131 100

133 92.8 0.0 191.4

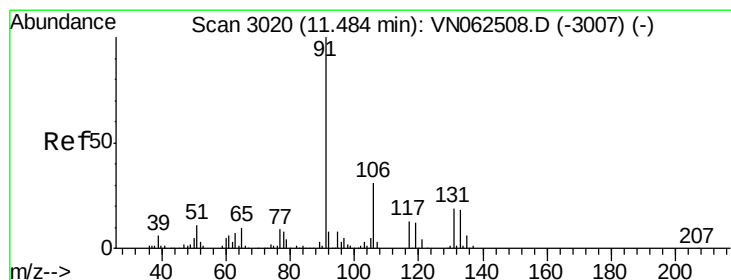
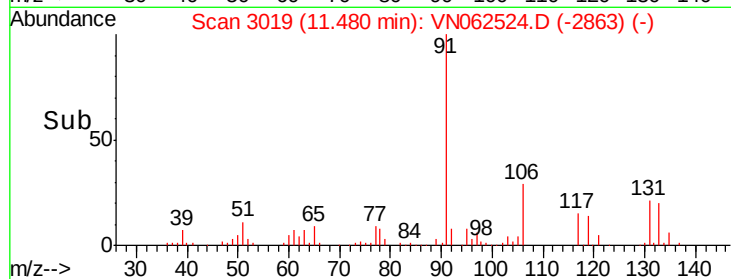
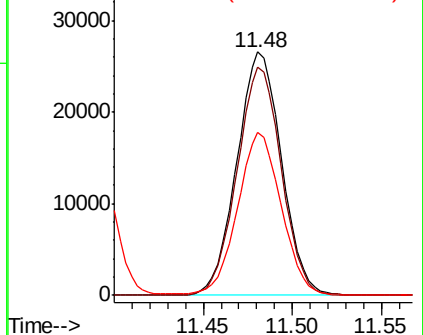
119 65.2 0.0 136.2



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: 16.093 ug/l

RT: 11.48 min Scan# 3020

Delta R.T. 0.00 min

Lab File: VN062524.D

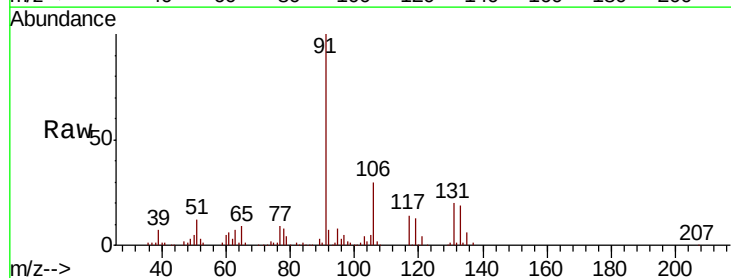
Acq: 14 Jul 2020 12:00

Tgt Ion: 91 Resp: 221164

Ion Ratio Lower Upper

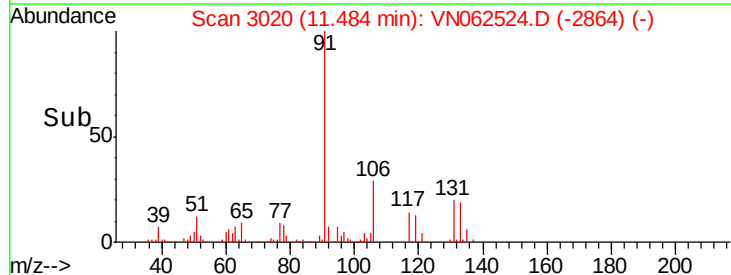
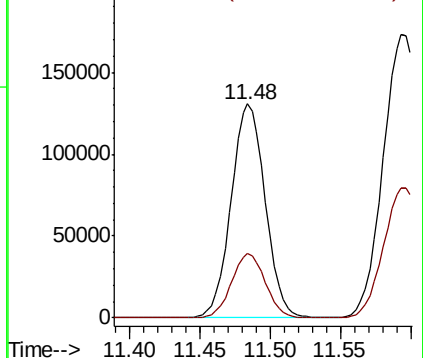
91 100

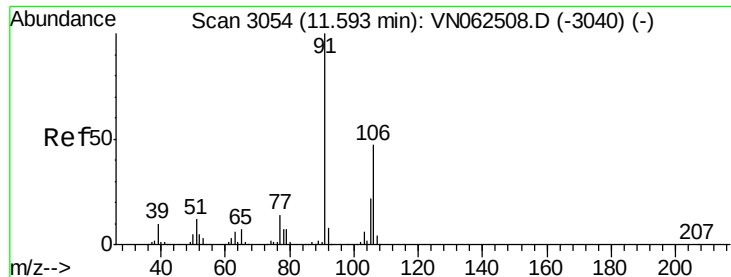
106 29.9 24.6 36.8



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V





#67

m/p-Xylenes

Concen: 31.706 ug/l

RT: 11.60 min Scan# 3055

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

Instrument :

MSVOA\_N

ClientSampleId :

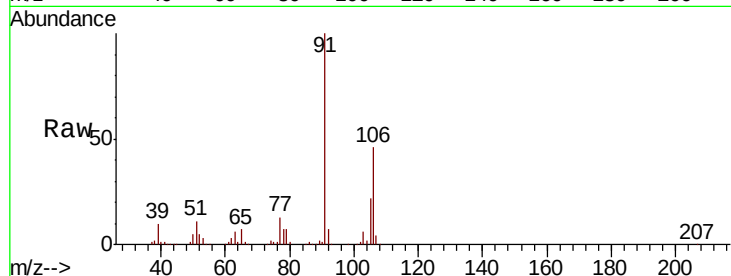
VN0714WBSD01

Tot Ion:106 Resp: 158154

Ion Ratio Lower Upper

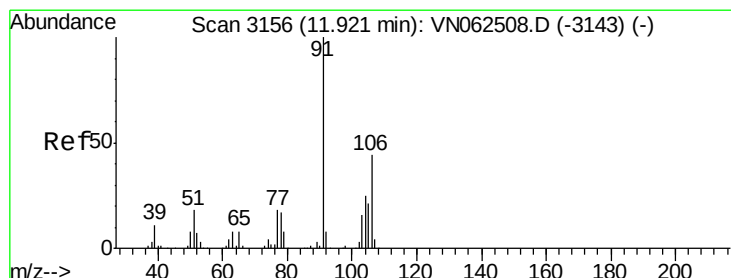
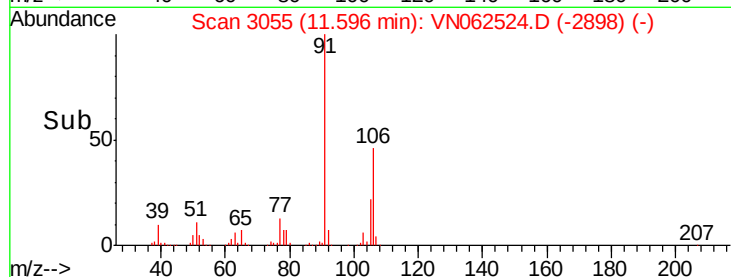
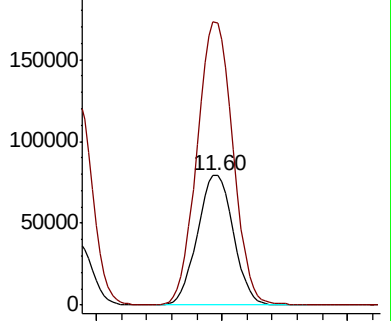
106 100

91 215.5 170.7 256.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#68

o-Xylene

Concen: 16.380 ug/l

RT: 11.92 min Scan# 3156

Delta R.T. 0.00 min

Lab File: VN062524.D

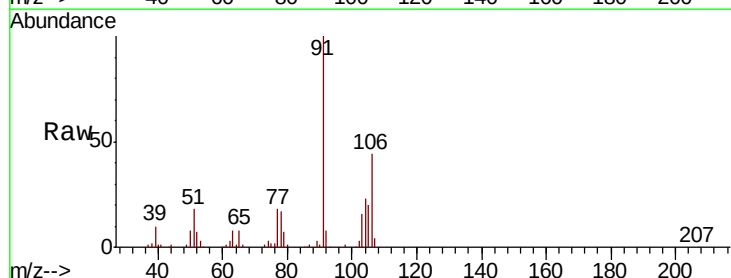
Acq: 14 Jul 2020 12:00

Tgt Ion:106 Resp: 78413

Ion Ratio Lower Upper

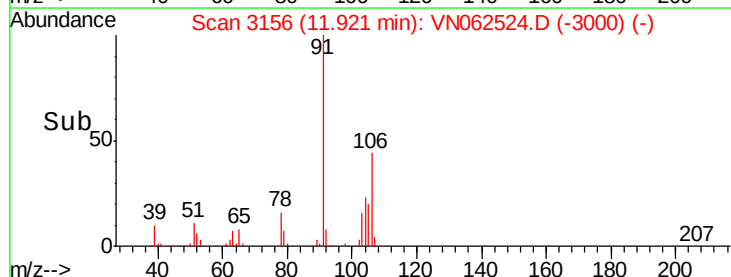
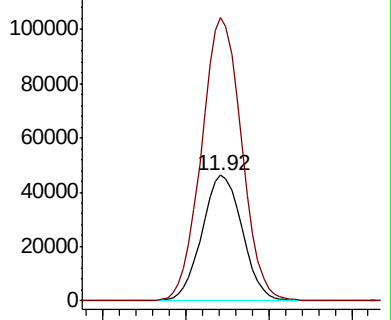
106 100

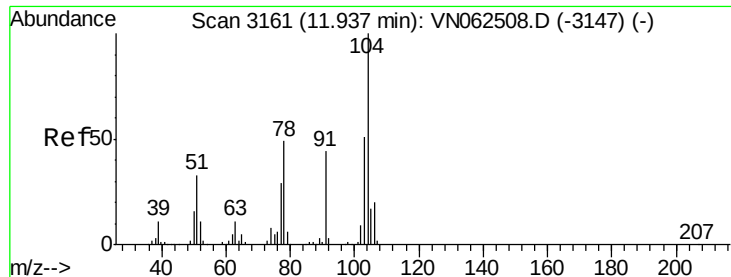
91 223.8 113.9 341.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN

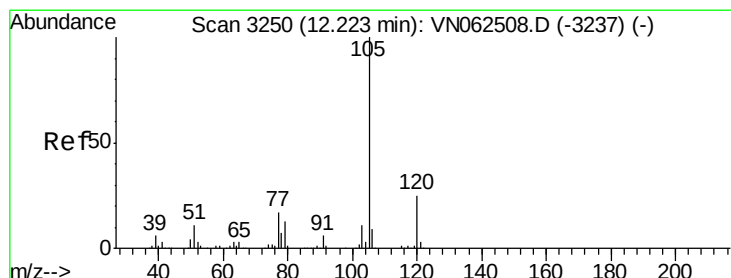
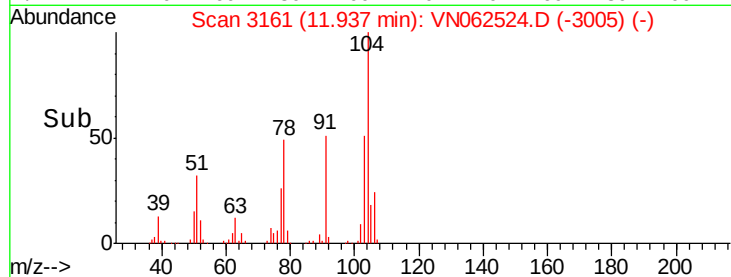
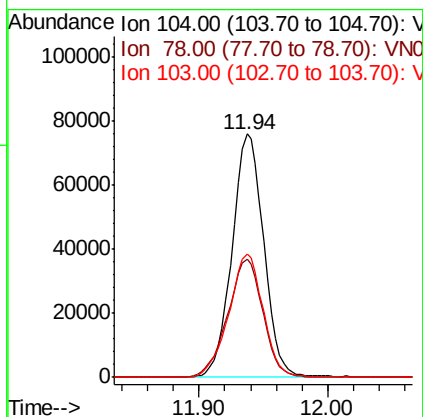
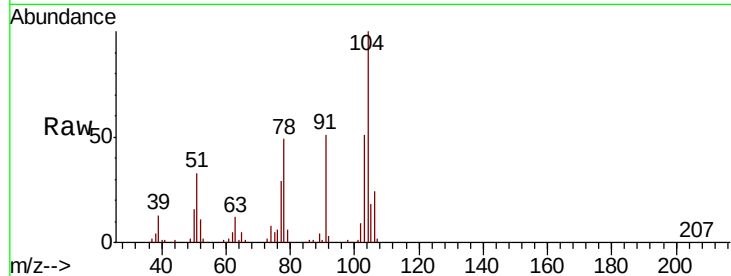




#69  
Stvrene  
Concen: 16.011 ug/l  
RT: 11.94 min Scan# 3161  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

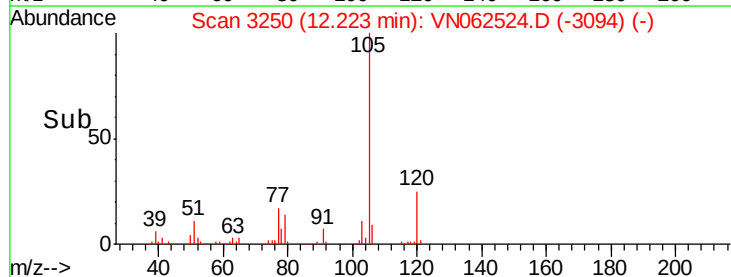
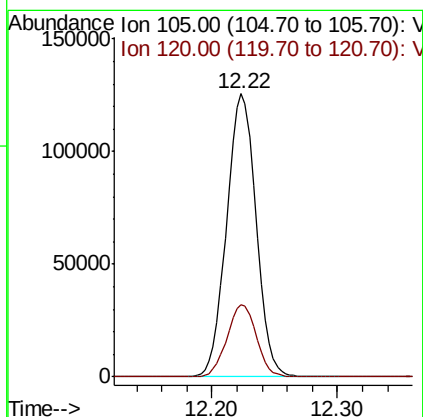
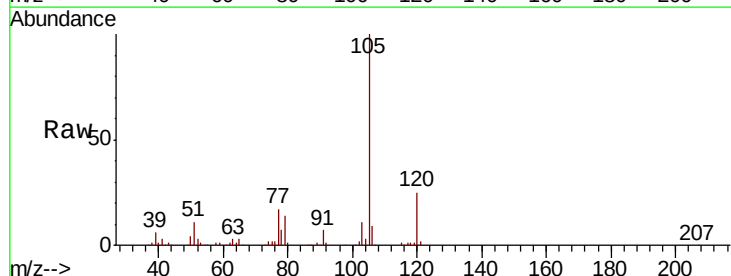
Instrument :  
MSVOA\_N  
ClientSampled :  
VN0714WBSD01

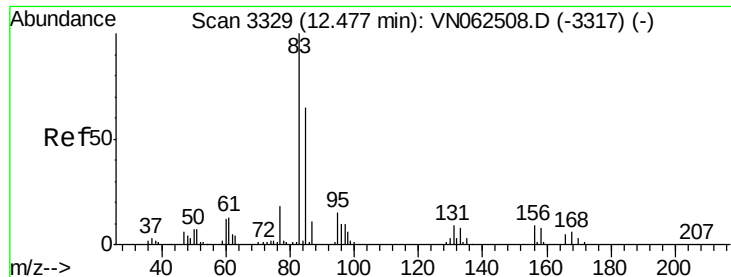
Tot Ion:104 Resp: 130089  
Ion Ratio Lower Upper  
104 100  
78 54.0 43.9 65.9  
103 54.6 43.8 65.6



#70  
Isopropylbenzene  
Concen: 15.953 ug/l  
RT: 12.22 min Scan# 3250  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

Tgt Ion:105 Resp: 205006  
Ion Ratio Lower Upper  
105 100  
120 25.3 17.6 32.8





#71

1,1,2,2-Tetrachloroethane

Concen: 17.298 ug/l

RT: 12.48 min Scan# 3329

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

Instrument :

MSVOA\_N

ClientSampleId :

VN0714WBSD01

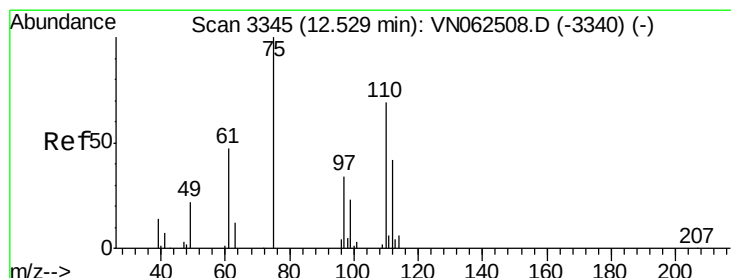
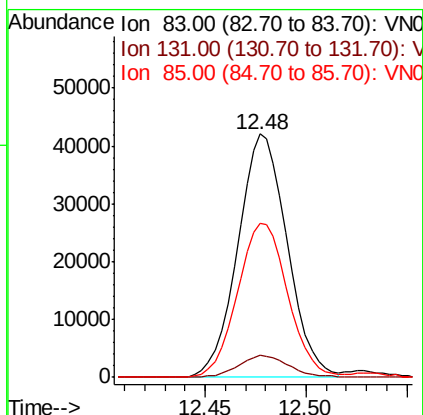
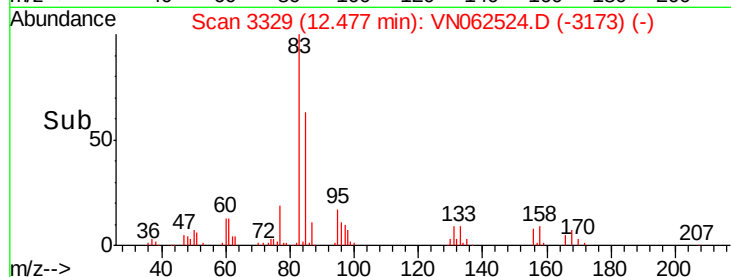
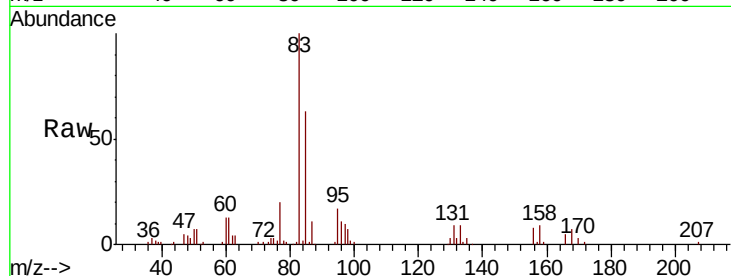
Tot Ion: 83 Resp: 71841

Ion Ratio Lower Upper

83 100

131 9.2 4.5 13.7

85 64.7 32.5 97.4



#72

1,2,3-Trichloropropane

Concen: 23.074 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN062524.D

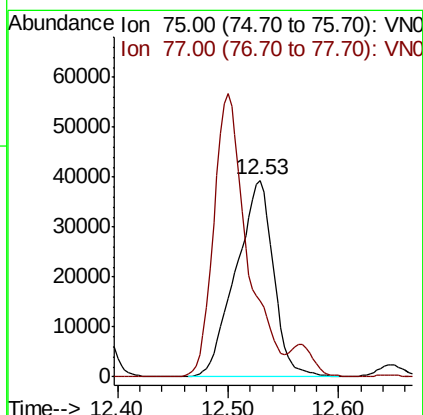
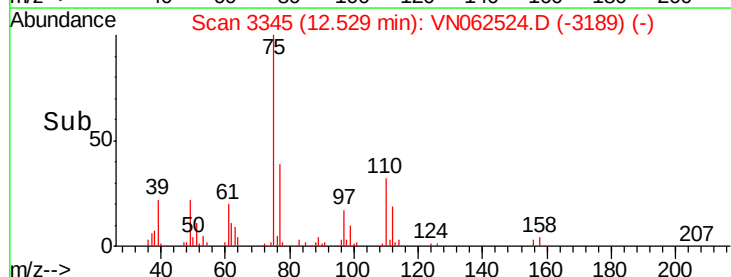
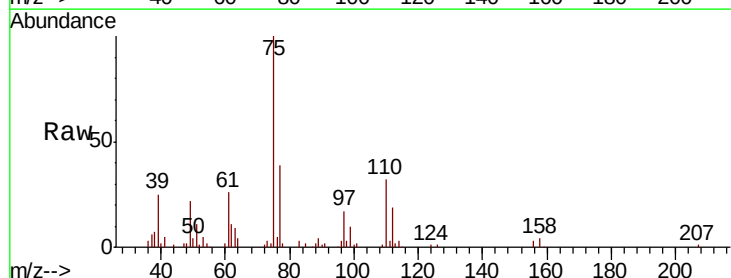
Acq: 14 Jul 2020 12:00

Tgt Ion: 75 Resp: 93215

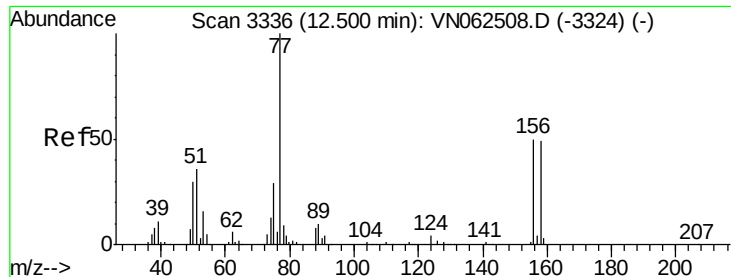
Ion Ratio Lower Upper

75 100

77 127.1 0.0 376.2







#73

Bromobenzene

Concen: 16.254 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

Instrument :

MSVOA\_N

ClientSampleId :

VN0714WBSD01

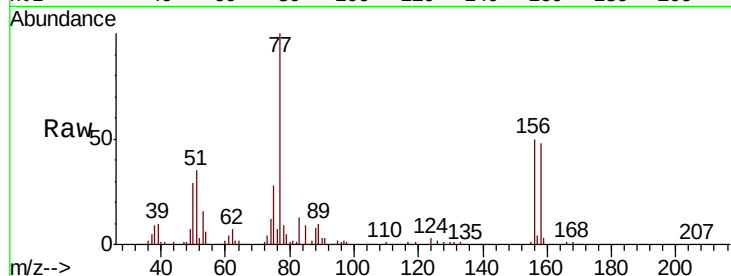
Tot Ion:156 Resp: 48373

Ion Ratio Lower Upper

156 100

77 245.0 0.0 485.0

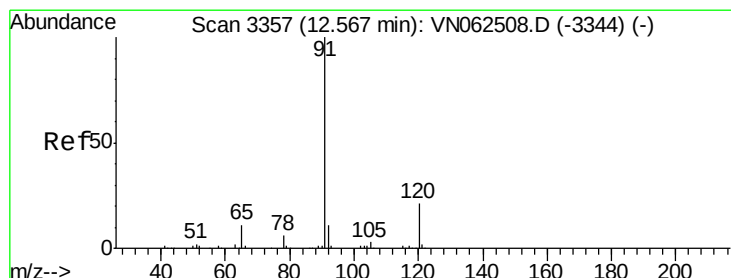
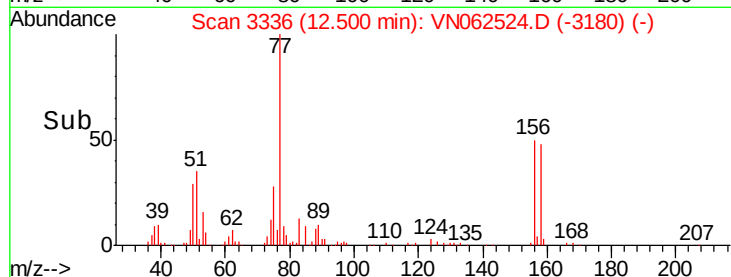
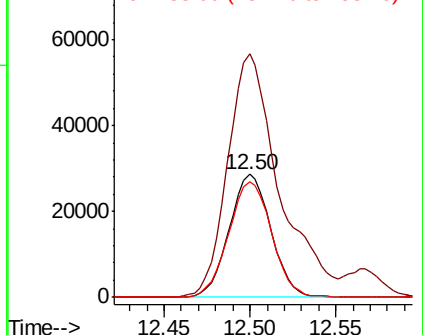
158 96.5 0.0 192.6



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: 15.731 ug/l

RT: 12.57 min Scan# 3357

Delta R.T. 0.00 min

Lab File: VN062524.D

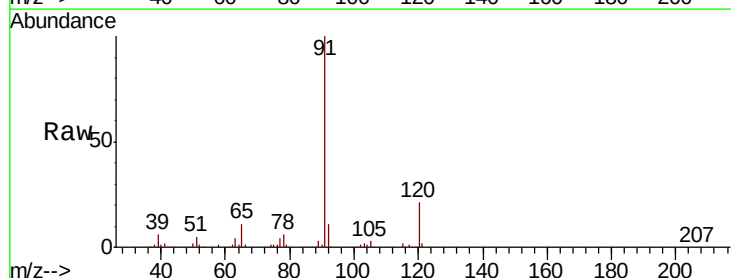
Acq: 14 Jul 2020 12:00

Tgt Ion: 91 Resp: 240298

Ion Ratio Lower Upper

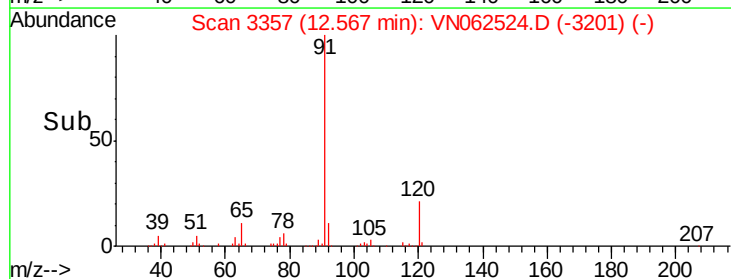
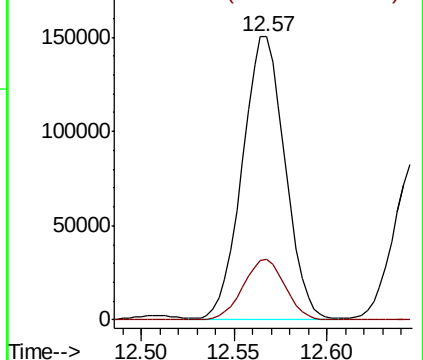
91 100

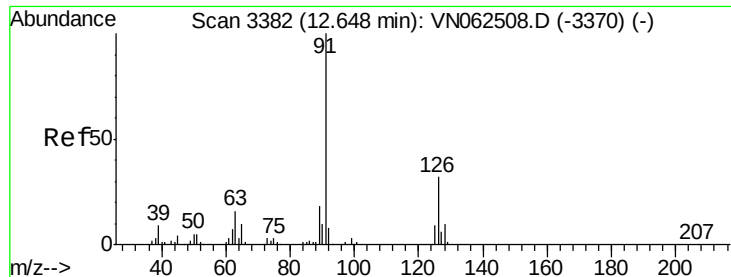
120 21.1 0.0 42.8



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 15.968 ug/l

RT: 12.65 min Scan# 3382

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

Instrument :

MSVOA\_N

ClientSampleId :

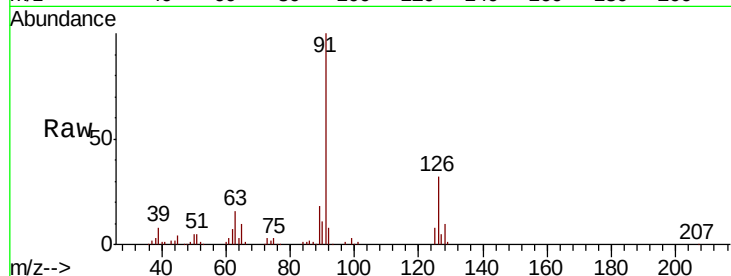
VN0714WBSD01

Tot Ion: 91 Resp: 146858

Ion Ratio Lower Upper

91 100

126 31.5 0.0 62.2



Abundance Ion 91.00 (90.70 to 91.70): VN062508.D (-3370) (-)

Ion 126.00 (125.70 to 126.70): VN062508.D (-3370) (-)

150000

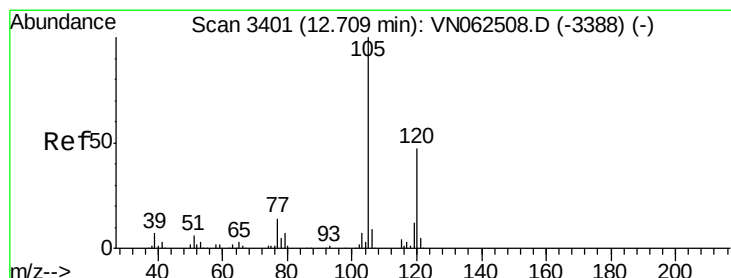
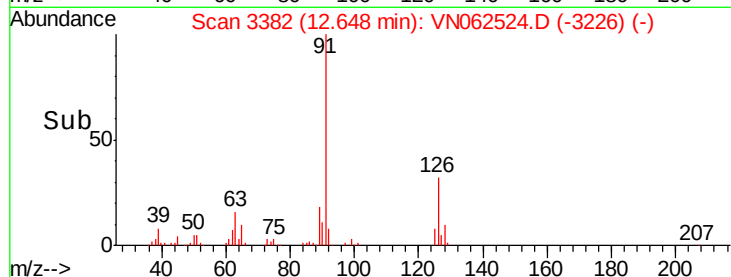
100000

50000

0

12.60 12.65 12.70

Time-->



#76

1,3,5-Trimethylbenzene

Concen: 15.765 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN062524.D

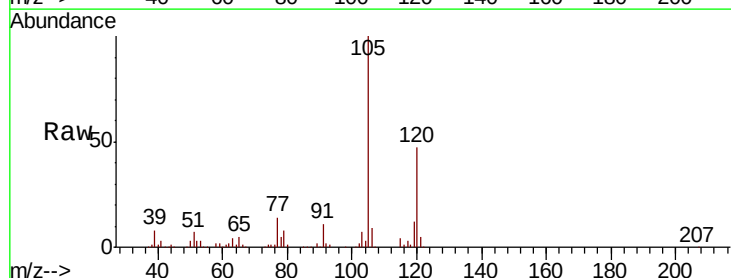
Acq: 14 Jul 2020 12:00

Tgt Ion: 105 Resp: 172617

Ion Ratio Lower Upper

105 100

120 46.4 0.0 95.0



Abundance Ion 105.00 (104.70 to 105.70): VN062508.D (-3388) (-)

Ion 120.00 (119.70 to 120.70): VN062508.D (-3388) (-)

120000

100000

80000

60000

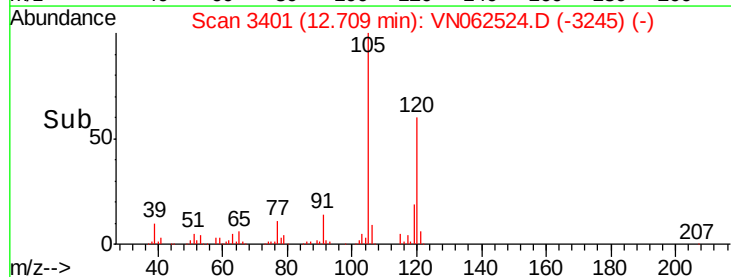
40000

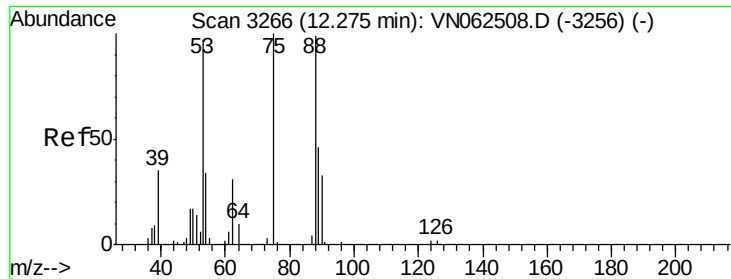
20000

0

12.65 12.70 12.75

Time-->





#77

t-1,4-Dichloro-2-butene

Concen: 15.518 ug/l

RT: 12.27 min Scan# 3266

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

Instrument :

MSVOA\_N

ClientSampleId :

VN0714WBSD01

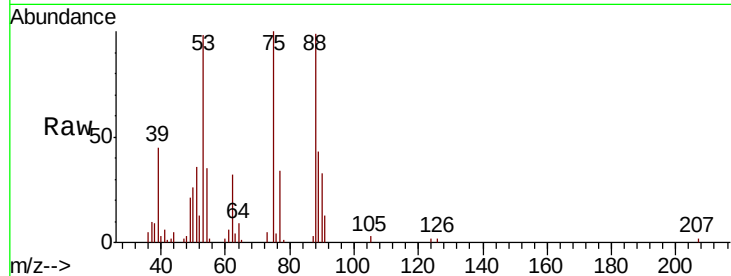
Tot Ion: 75 Resp: 23447

Ion Ratio Lower Upper

75 100

53 98.1 48.3 144.8

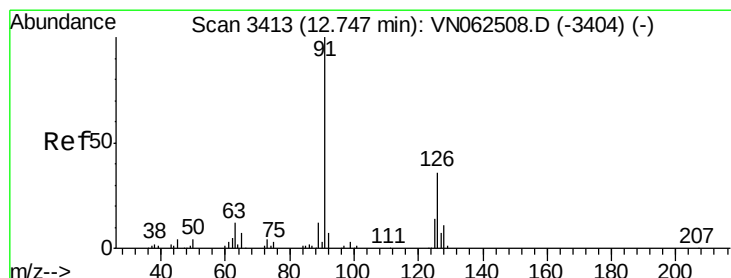
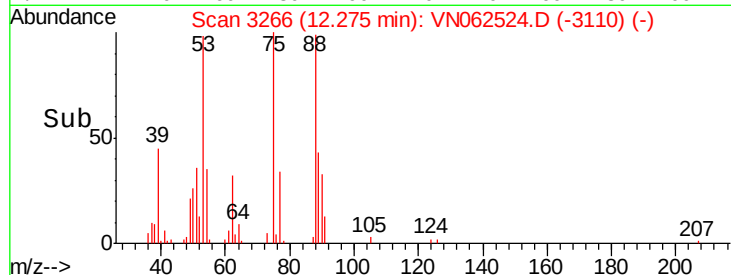
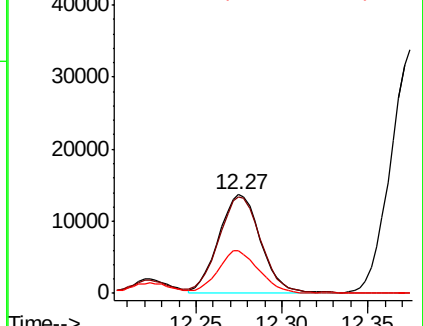
89 43.5 23.3 69.8



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0



#78

4-Chlorotoluene

Concen: 15.691 ug/l

RT: 12.75 min Scan# 3413

Delta R.T. 0.00 min

Lab File: VN062524.D

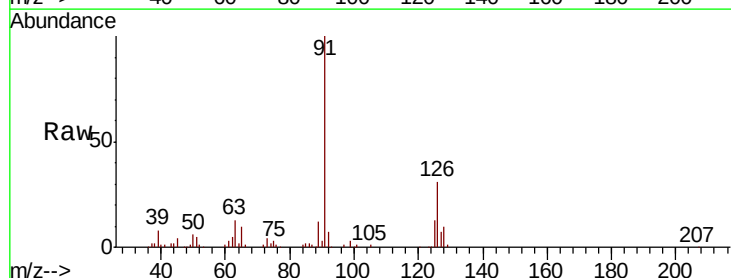
Acq: 14 Jul 2020 12:00

Tgt Ion: 91 Resp: 147253

Ion Ratio Lower Upper

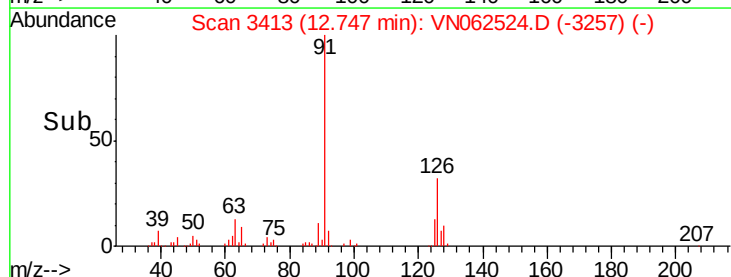
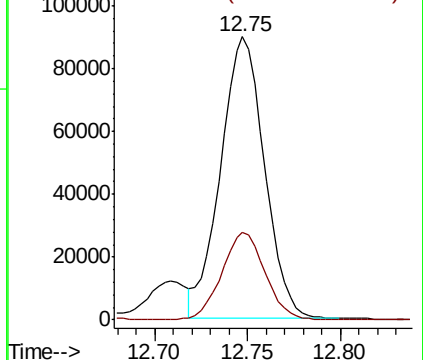
91 100

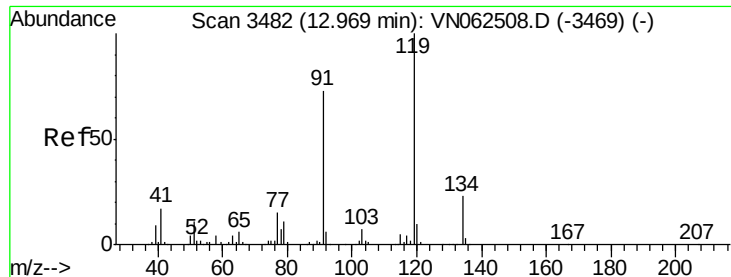
126 30.6 0.0 62.2



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 126.00 (125.70 to 126.70): V

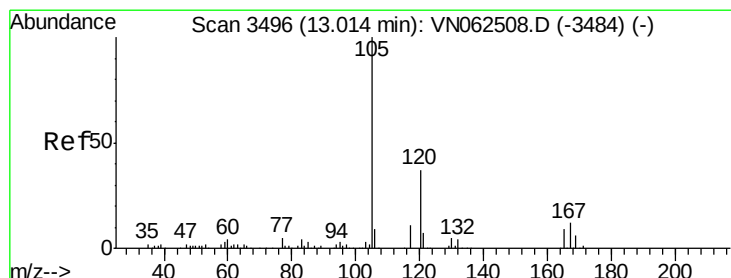
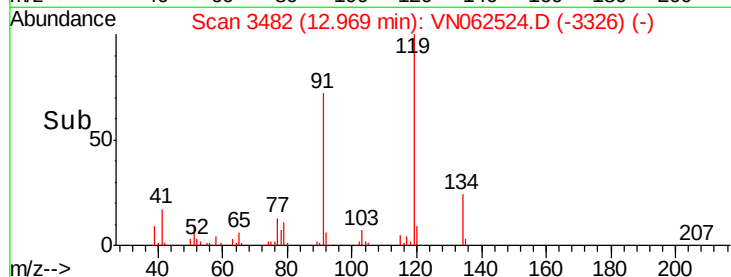
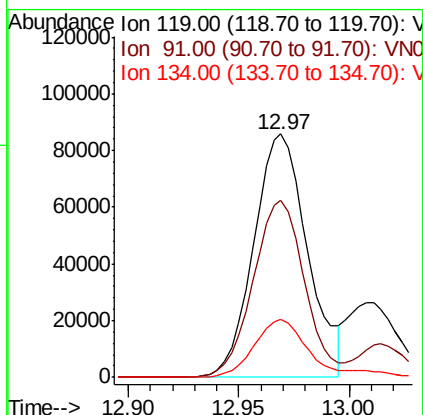
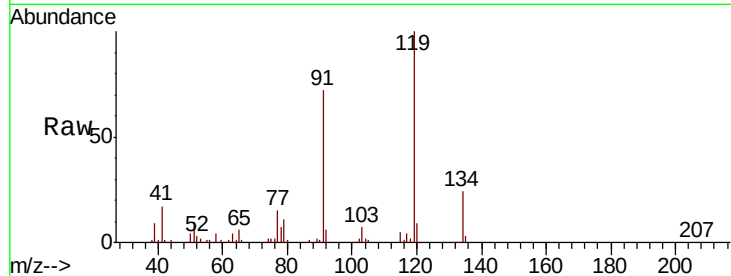




#79  
tert-butylbenzene  
Concen: 15.966 ug/l  
RT: 12.97 min Scan# 3482  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

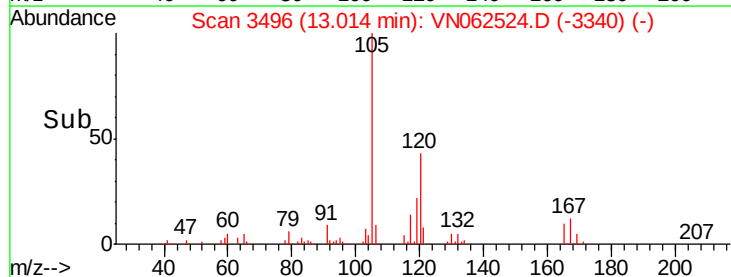
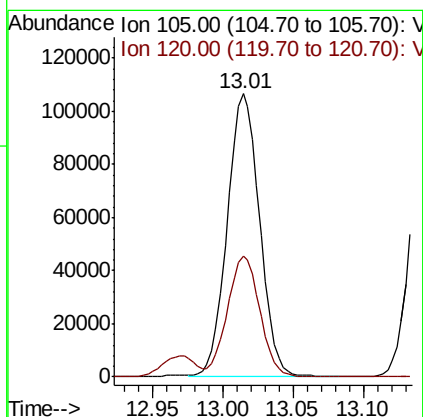
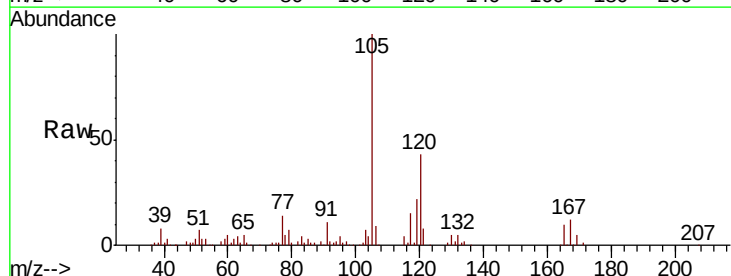
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0714WBSD01

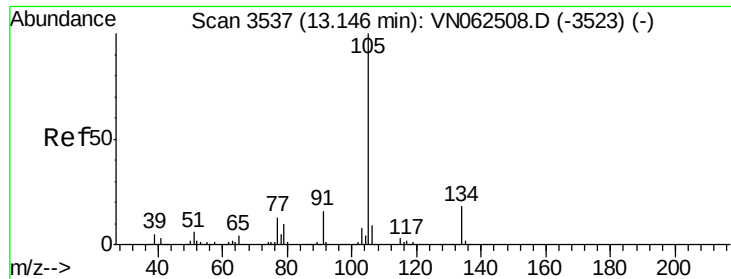
Tot Ion:119 Resp: 144755  
Ion Ratio Lower Upper  
119 100  
91 69.8 0.0 139.8  
134 23.1 0.0 45.0



#80  
1,2,4-Trimethylbenzene  
Concen: 15.834 ug/l  
RT: 13.01 min Scan# 3496  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

Tgt Ion:105 Resp: 170514  
Ion Ratio Lower Upper  
105 100  
120 43.1 0.0 86.6





#81

sec-Butylbenzene

Concen: 15.571 ug/l

RT: 13.15 min Scan# 3537

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

Instrument :

MSVOA\_N

ClientSampled :

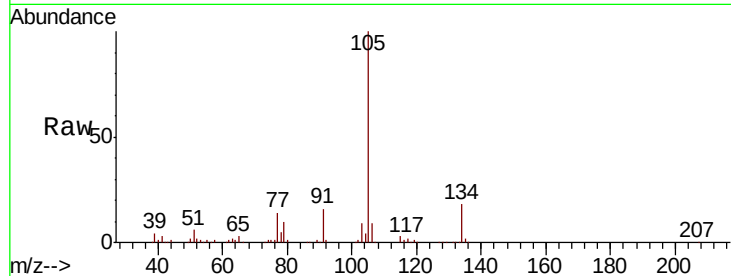
VN0714WBSD01

Tot Ion:105 Resp: 189597

Ion Ratio Lower Upper

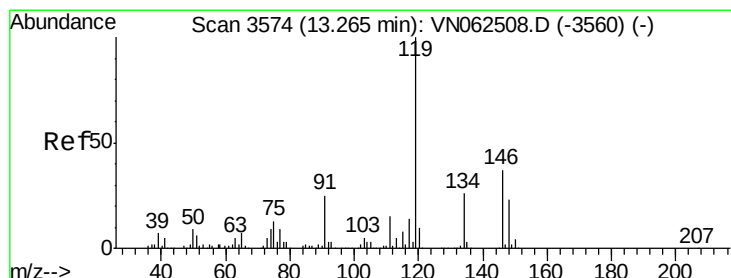
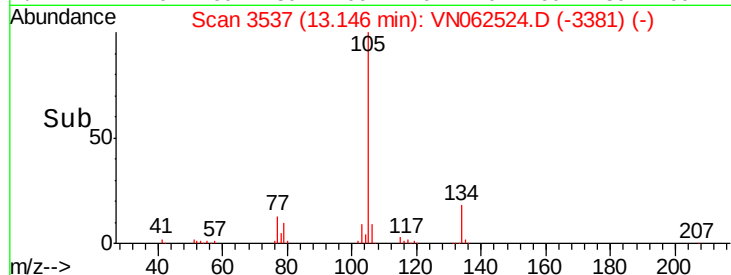
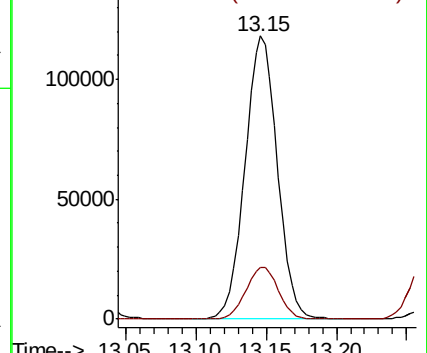
105 100

134 18.4 0.0 37.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#82

p-Isopropyltoluene

Concen: 15.191 ug/l

RT: 13.26 min Scan# 3574

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

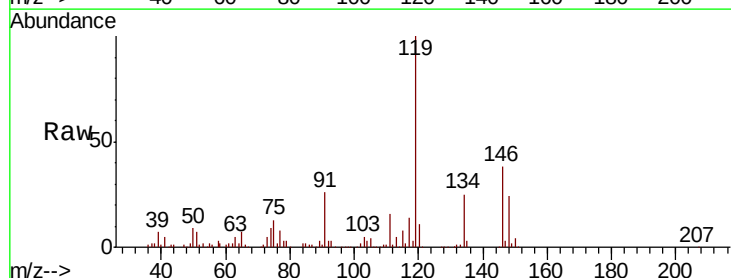
Tgt Ion:119 Resp: 163233

Ion Ratio Lower Upper

119 100

134 25.0 0.0 50.8

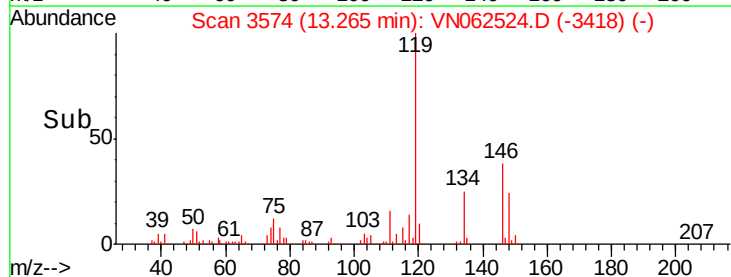
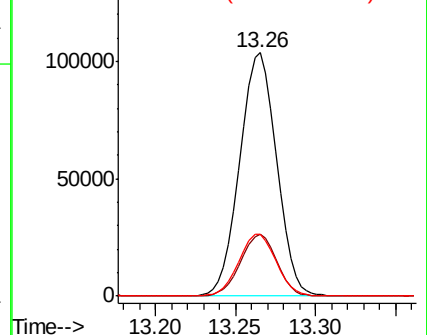
91 25.8 0.0 51.2

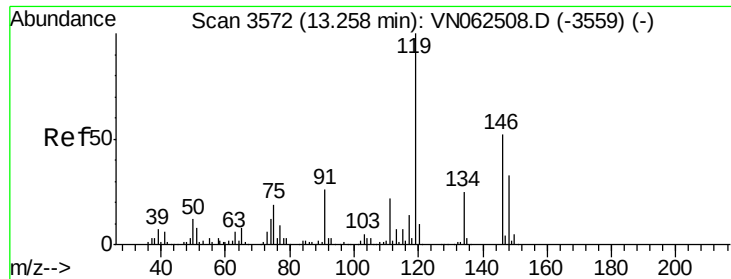


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

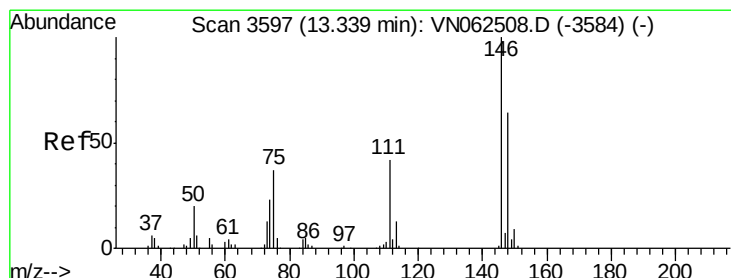
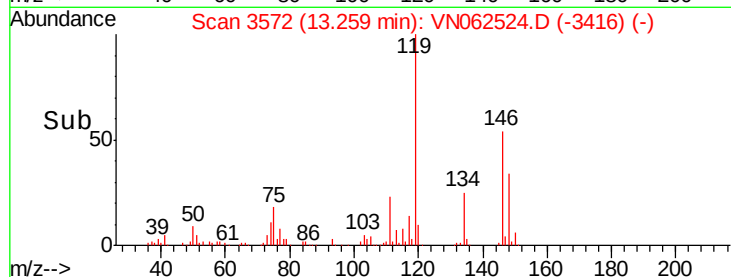
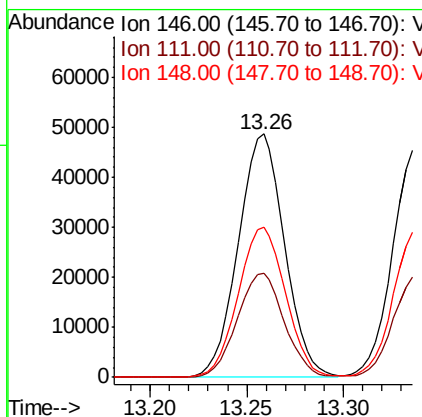
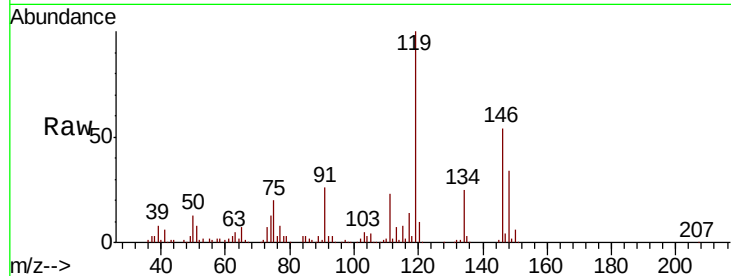




#83  
 1,3-Dichlorobenzene  
 Concen: 15.673 ug/l  
 RT: 13.26 min Scan# 3572  
 Delta R.T. 0.00 min  
 Lab File: VN062524.D  
 Acq: 14 Jul 2020 12:00

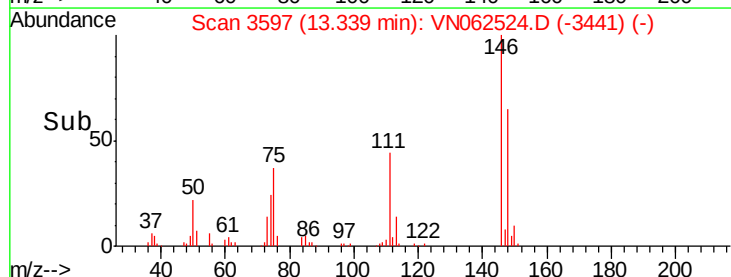
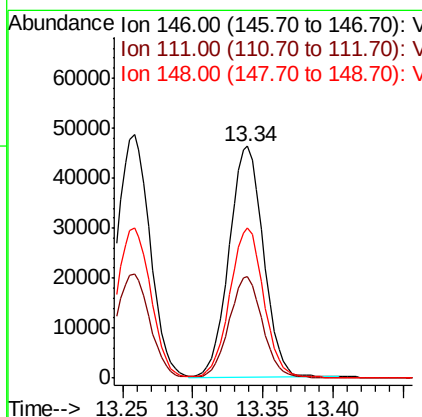
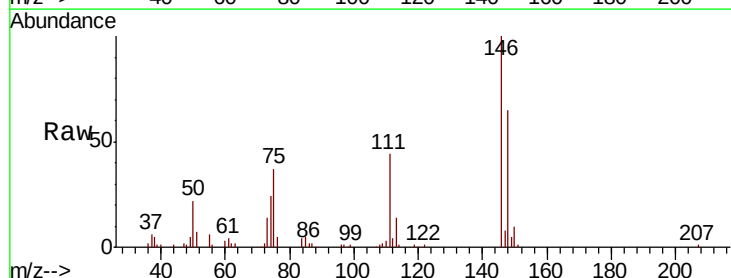
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0714WBSD01

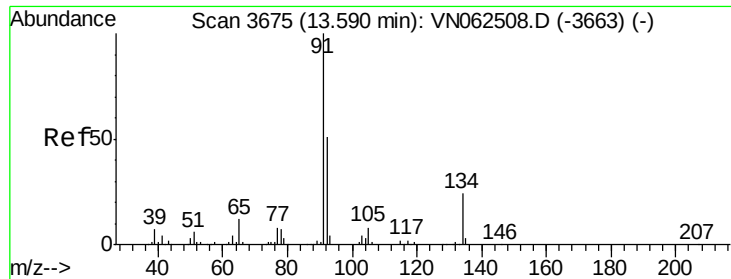
Tot Ion:146 Resp: 81005  
 Ion Ratio Lower Upper  
 146 100  
 111 43.5 21.0 63.0  
 148 63.2 31.7 95.1



#84  
 1,4-Dichlorobenzene  
 Concen: 15.411 ug/l  
 RT: 13.34 min Scan# 3597  
 Delta R.T. 0.00 min  
 Lab File: VN062524.D  
 Acq: 14 Jul 2020 12:00

Tgt Ion:146 Resp: 78597  
 Ion Ratio Lower Upper  
 146 100  
 111 42.9 21.4 64.2  
 148 64.2 32.4 97.2





#85

n-Butylbenzene

Concen: 14.217 ug/l

RT: 13.59 min Scan# 3675

Delta R.T. 0.00 min

Lab File: VN062524.D

Acq: 14 Jul 2020 12:00

Instrument :

MSVOA\_N

ClientSampled :

VN0714WBSD01

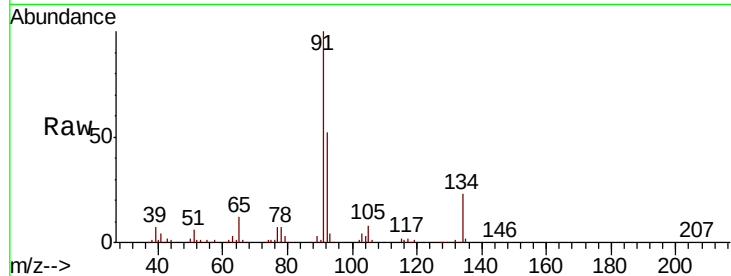
Tot Ion: 91 Resp: 131041

Ion Ratio Lower Upper

91 100

92 52.0 0.0 102.4

134 23.6 0.0 46.6

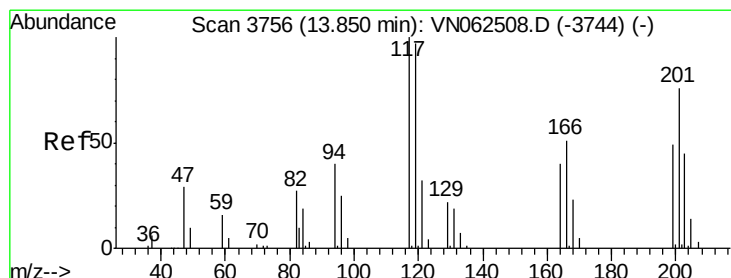
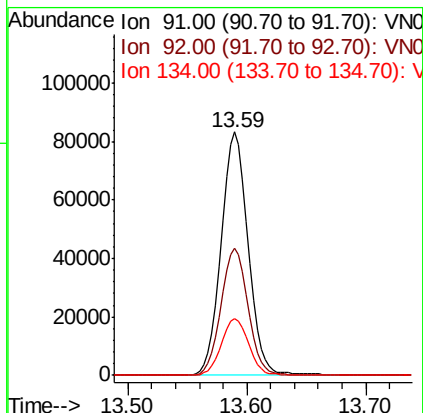
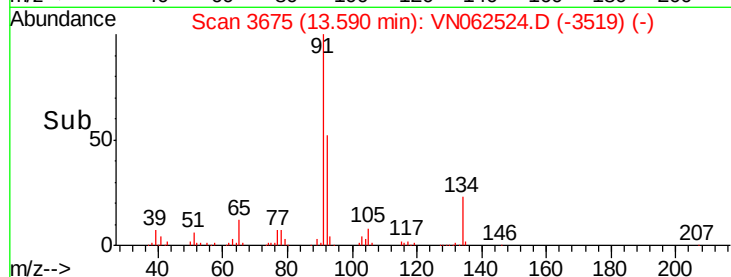


Abundance Ion 91.00 (90.70 to 91.70): VN062508.D (-3663) (-)

Ion 92.00 (91.70 to 92.70): VN062508.D (-3663) (-)

Ion 134.00 (133.70 to 134.70): VN062508.D (-3663) (-)

Time--> 13.55 13.60 13.70



#86

Hexachloroethane

Concen: 15.328 ug/l

RT: 13.85 min Scan# 3755

Delta R.T. -0.00 min

Lab File: VN062524.D

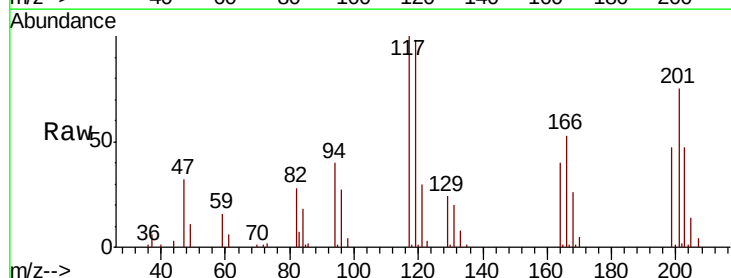
Acq: 14 Jul 2020 12:00

Tgt Ion: 117 Resp: 31782

Ion Ratio Lower Upper

117 100

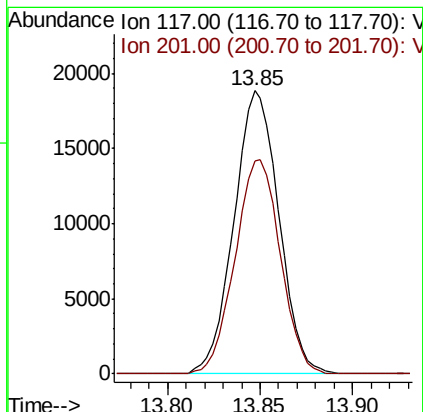
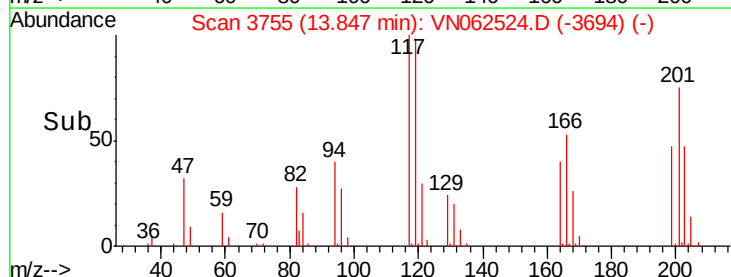
201 76.3 37.4 112.2

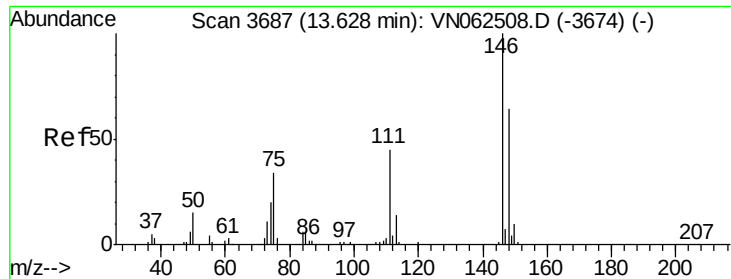


Abundance Ion 117.00 (116.70 to 117.70): VN062508.D (-3744) (-)

Ion 201.00 (200.70 to 201.70): VN062508.D (-3744) (-)

Time--> 13.80 13.85 13.90

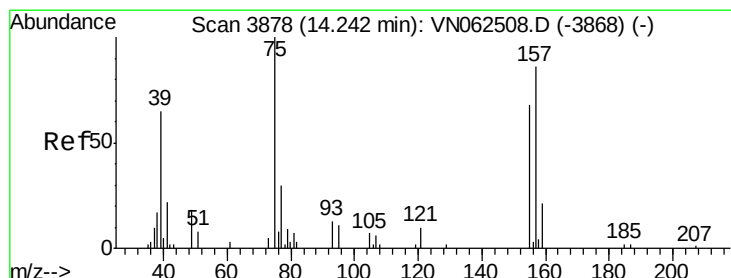
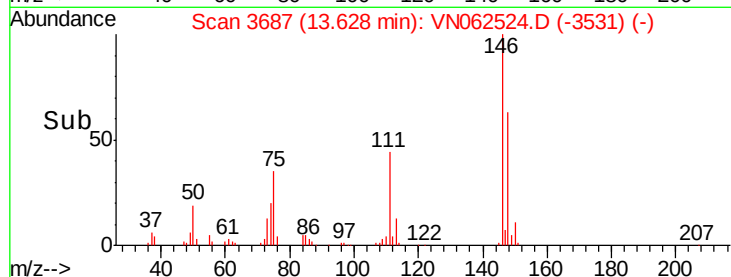
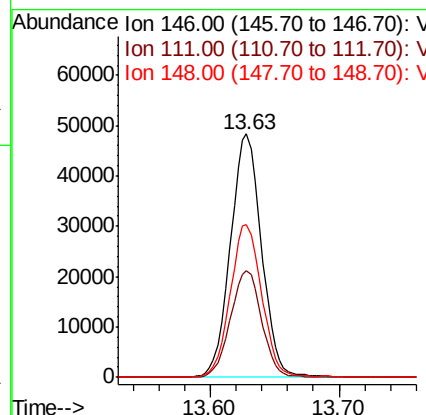
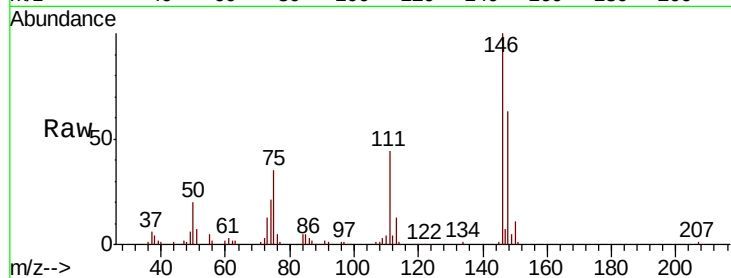




#87  
 1,2-Dichlorobenzene  
 Concen: 16.273 ug/l  
 RT: 13.63 min Scan# 3687  
 Delta R.T. 0.00 min  
 Lab File: VN062524.D  
 Acq: 14 Jul 2020 12:00

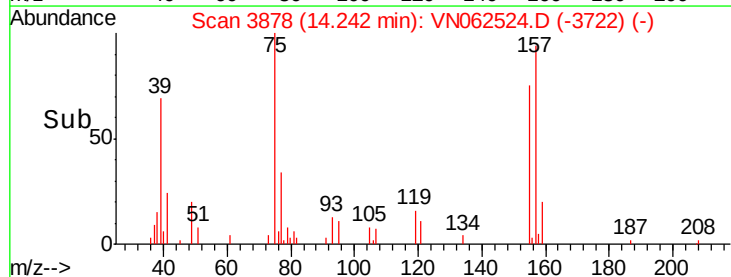
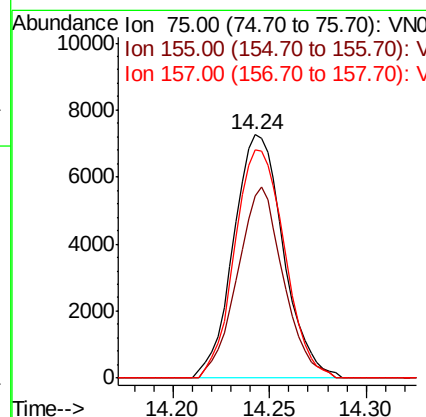
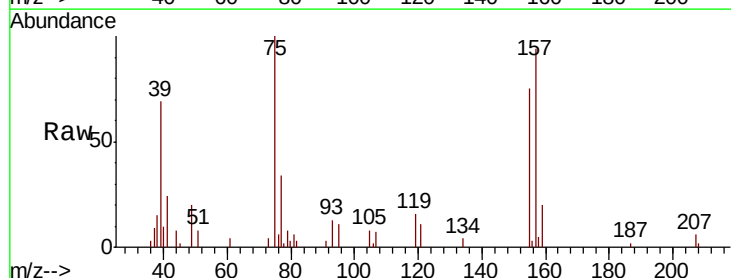
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0714WBSD01

Tot Ion:146 Resp: 80879  
 Ion Ratio Lower Upper  
 146 100  
 111 43.9 22.4 67.0  
 148 63.2 32.1 96.3

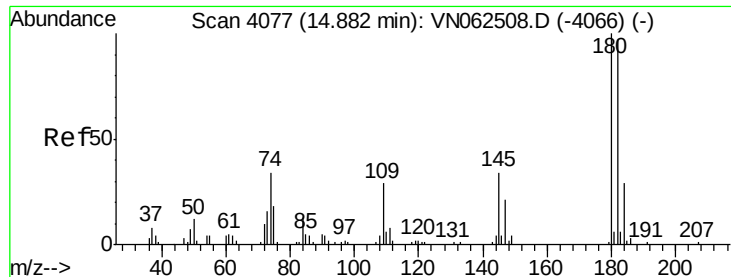


#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 16.592 ug/l  
 RT: 14.24 min Scan# 3878  
 Delta R.T. 0.00 min  
 Lab File: VN062524.D  
 Acq: 14 Jul 2020 12:00

Tgt Ion: 75 Resp: 13014  
 Ion Ratio Lower Upper  
 75 100  
 155 72.4 55.7 83.5  
 157 93.6 71.0 106.6



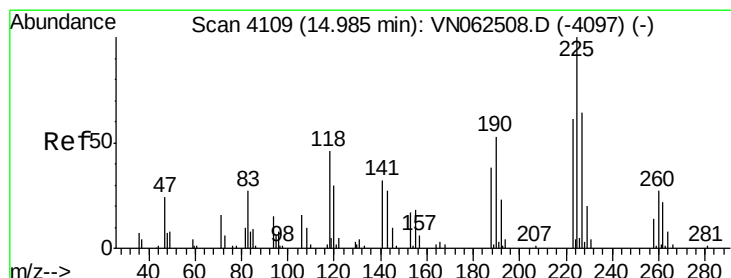
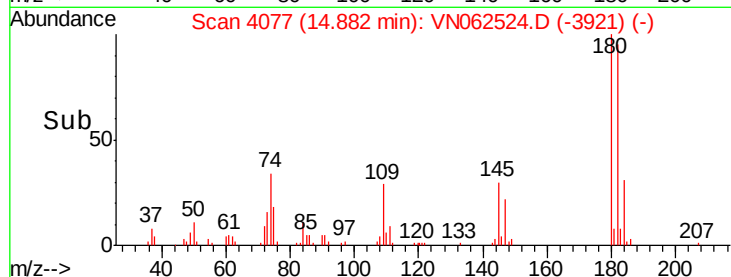
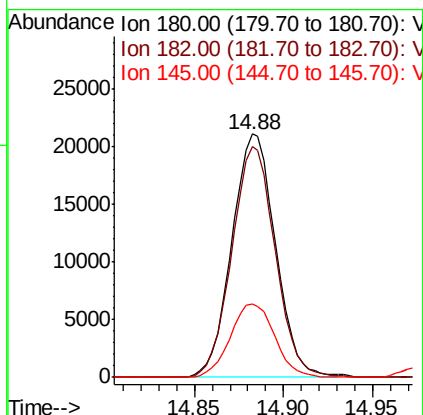
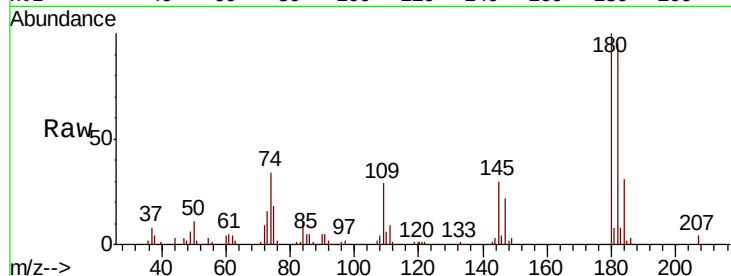




#89  
 1,2,4-Trichlorobenzene  
 Concen: 14.494 ug/l  
 RT: 14.88 min Scan# 4077  
 Delta R.T. 0.00 min  
 Lab File: VN062524.D  
 Acq: 14 Jul 2020 12:00

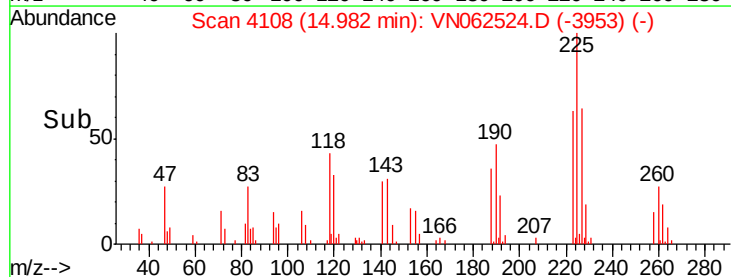
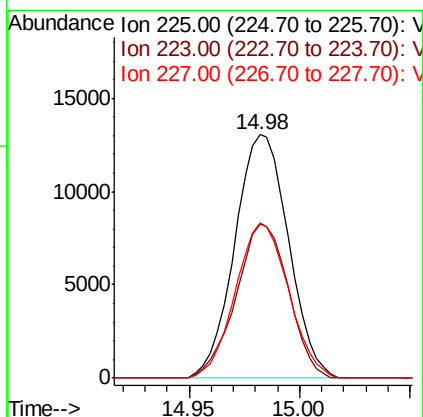
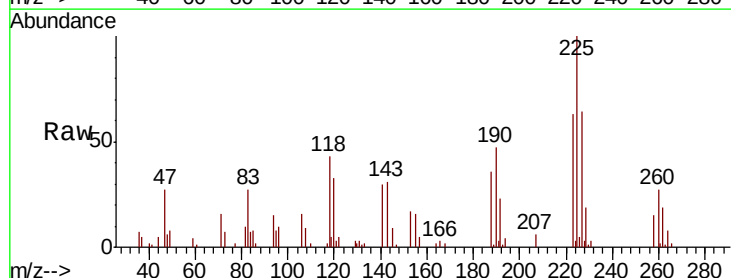
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0714WBSD01

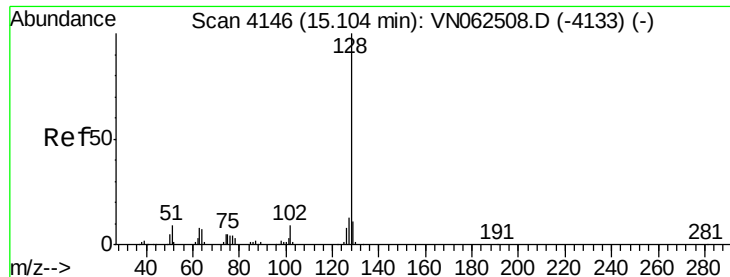
Tot Ion:180 Resp: 35862  
 Ion Ratio Lower Upper  
 180 100  
 182 94.3 77.5 116.3  
 145 30.8 26.1 39.1



#90  
 Hexachlorobutadiene  
 Concen: 16.092 ug/l  
 RT: 14.98 min Scan# 4108  
 Delta R.T. -0.00 min  
 Lab File: VN062524.D  
 Acq: 14 Jul 2020 12:00

Tgt Ion:225 Resp: 22083  
 Ion Ratio Lower Upper  
 225 100  
 223 61.7 0.0 120.4  
 227 63.1 0.0 129.6

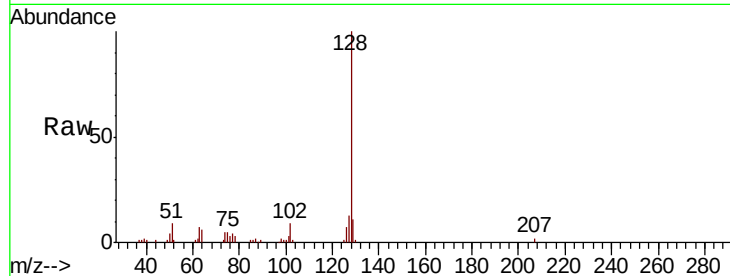




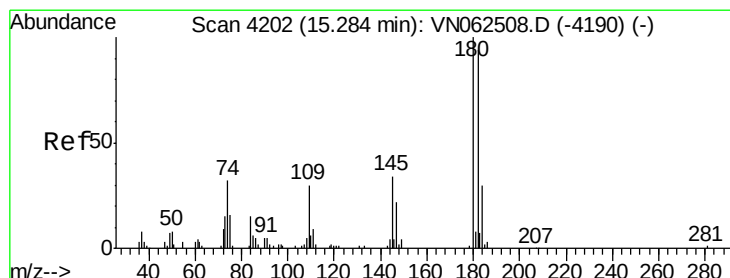
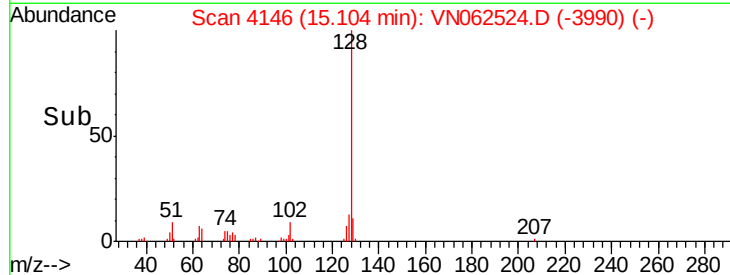
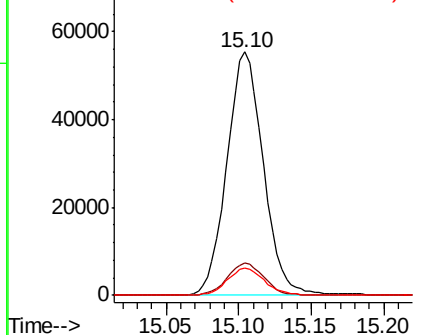
#91  
Naphthalene  
Concen: 14.407 ug/l  
RT: 15.10 min Scan# 4146  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0714WBSD01

Tot Ion:128 Resp: 96647  
Ion Ratio Lower Upper  
128 100  
127 13.3 10.0 15.0  
129 11.4 8.8 13.2

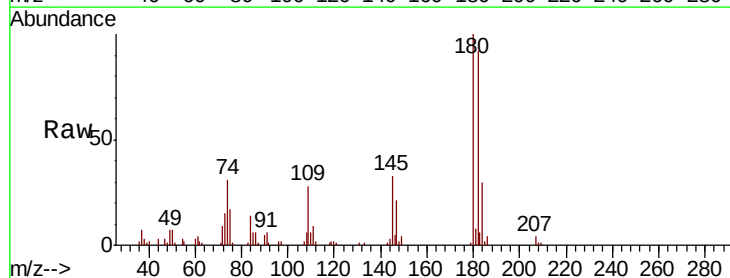


Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V



#92  
1,2,3-Trichlorobenzene  
Concen: 15.181 ug/l  
RT: 15.28 min Scan# 4202  
Delta R.T. 0.00 min  
Lab File: VN062524.D  
Acq: 14 Jul 2020 12:00

Tgt Ion:180 Resp: 37856  
Ion Ratio Lower Upper  
180 100  
182 92.7 0.0 187.2  
145 33.6 0.0 67.8



Abundance Ion 180.00 (179.70 to 180.70): V  
Ion 182.00 (181.70 to 182.70): V  
Ion 145.00 (144.70 to 145.70): V

