

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022221\  
 Data File : VN065964.D  
 Acq On : 22 Feb 2021 16:55  
 Operator : JC/MD  
 Sample : M1450-04RE  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Feb 23 00:10:11 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021721W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 17 15:48:13 2021  
 Response via : Initial Calibration

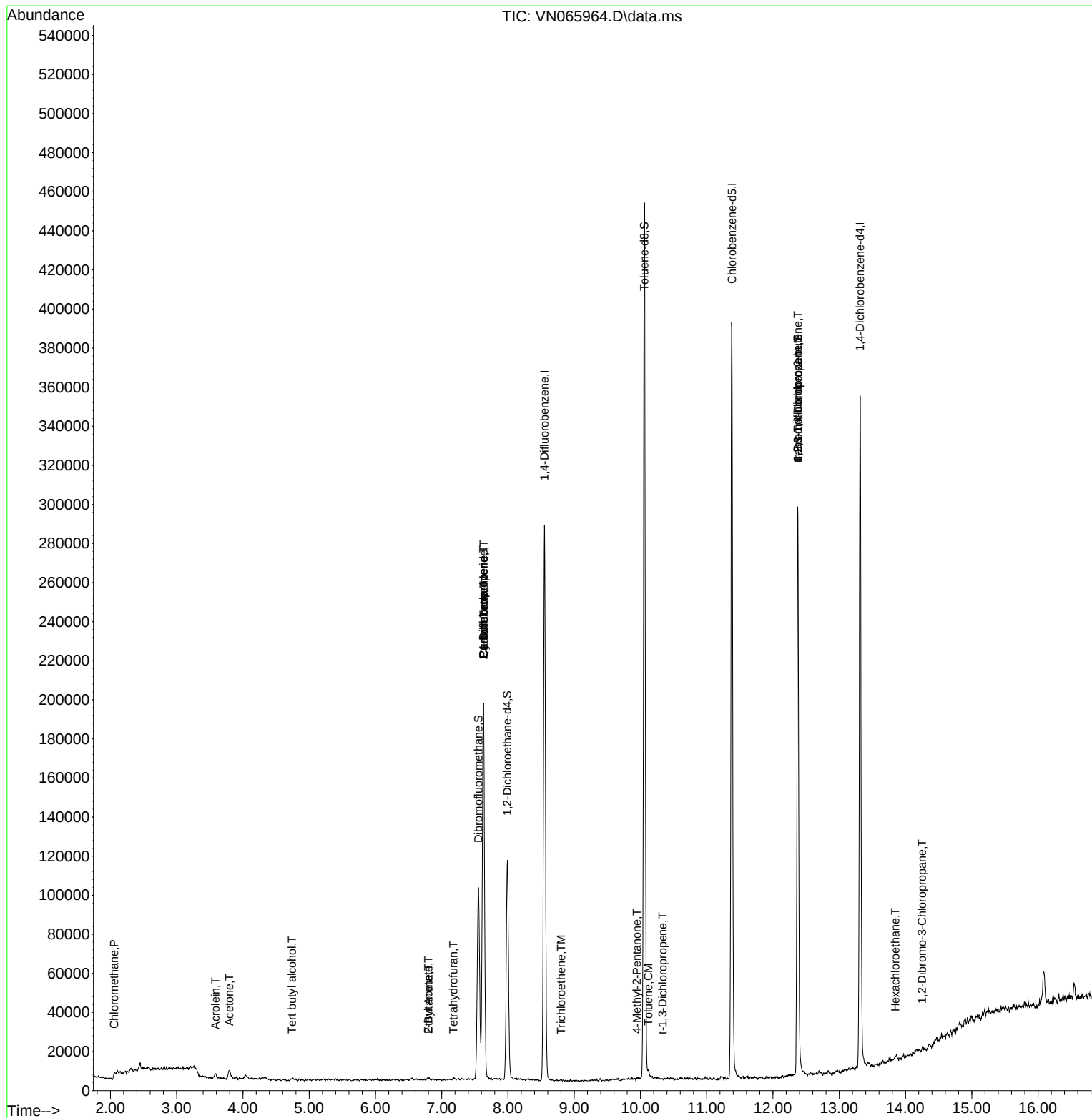
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 7.631  | 168   | 157779   | 50.00    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.550  | 114   | 261122   | 50.00    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.380 | 117   | 237747   | 50.00    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.315 | 152   | 97835    | 50.00    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 7.991  | 65    | 101391   | 45.95    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery | =      | 91.90%   |
| 35) Dibromofluoromethane      | 7.553  | 113   | 78307    | 48.46    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery | =      | 96.92%   |
| 50) Toluene-d8                | 10.058 | 98    | 317972   | 47.93    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery | =      | 95.86%   |
| 62) 4-Bromofluorobenzene      | 12.373 | 95    | 114535   | 45.99    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery | =      | 91.98%   |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 2.055  | 50    | 1448     | 0.56     | ug/l   | 98       |
| 11) Tert butyl alcohol        | 4.740  | 59    | 1039     | 3.39     | ug/l # | 73       |
| 13) Acrolein                  | 3.586  | 56    | 2655     | 9.46     | ug/l   | 99       |
| 16) Acetone                   | 3.795  | 43    | 8956     | 11.39    | ug/l   | 92       |
| 25) 2-Butanone                | 6.798  | 43    | 1611     | 1.48     | ug/l # | 46       |
| 29) Tetrahydrofuran           | 7.177  | 42    | 750      | 1.00     | ug/l # | 38       |
| 31) Cyclohexane               | 7.631  | 56    | 3064     | 0.93     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.627  | 75    | 12349    | 4.80     | ug/l # | 48       |
| 37) Ethyl Acetate             | 6.798  | 43    | 1611     | 0.69     | ug/l # | 68       |
| 38) Carbon Tetrachloride      | 7.631  | 117   | 15531    | 6.49     | ug/l # | 19       |
| 44) Trichloroethene           | 8.801  | 130   | 400      | 0.20     | ug/l   | 52       |
| 51) 4-Methyl-2-Pentanone      | 9.946  | 43    | 624      | 0.28     | ug/l # | 35       |
| 52) Toluene                   | 10.119 | 92    | 1155     | 0.24     | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.335 | 75    | 184      | 2.04     | ug/l # | 42       |
| 76) 1,2,3-Trichloropropane    | 12.373 | 75    | 56708    | 24.13    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.373 | 75    | 56708    | 76.90    | ug/l # | 12       |
| 90) Hexachloroethane          | 13.846 | 117   | 228      | 0.20     | ug/l # | 12       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.251 | 75    | 149      | 1.16     | ug/l # | 1        |
| -----                         |        |       |          |          |        |          |

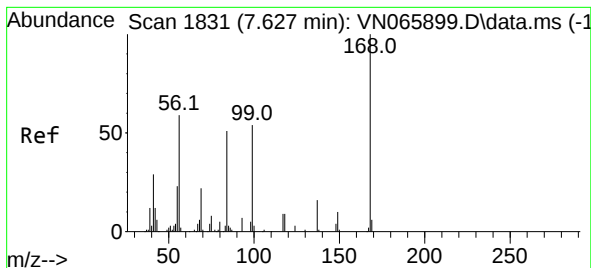
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Feb 23 00:10:11 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021721W.M  
Quant Title : SW846 8260  
QLast Update : Wed Feb 17 15:48:13 2021  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.631 min Scan# 1832

Delta R.T. 0.004 min

Lab File: VN065964.D

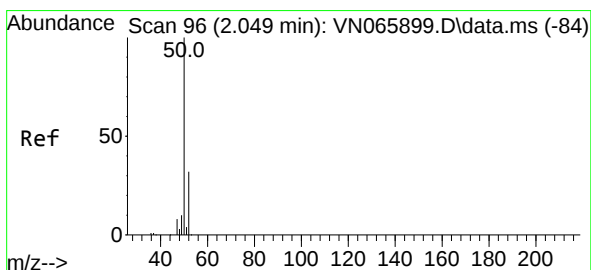
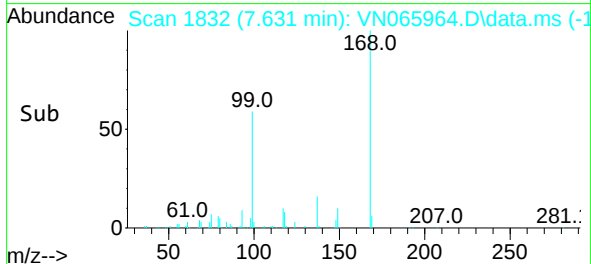
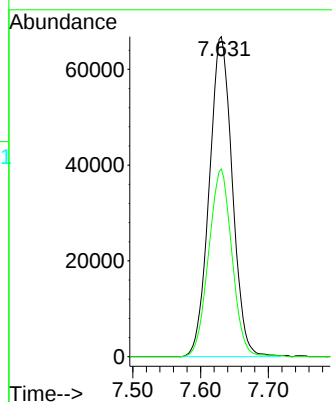
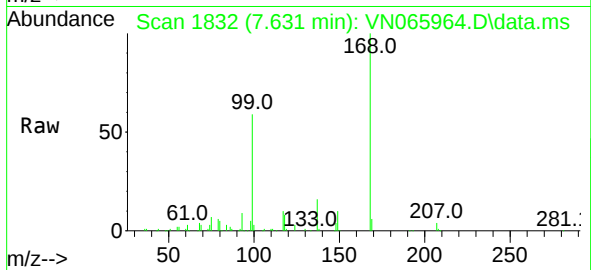
Acq: 22 Feb 2021 16:55

Tgt Ion:168 Resp: 157779

Ion Ratio Lower Upper

168 100

99 58.7 42.6 63.8



#3

Chloromethane

Concen: 0.56 ug/l

RT: 2.055 min Scan# 98

Delta R.T. 0.006 min

Lab File: VN065964.D

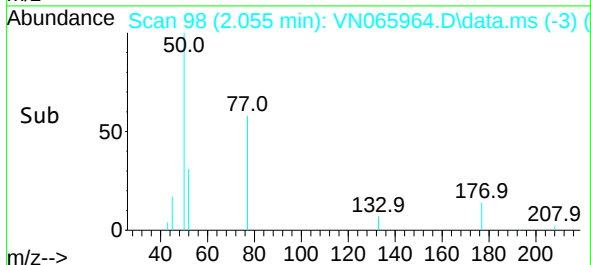
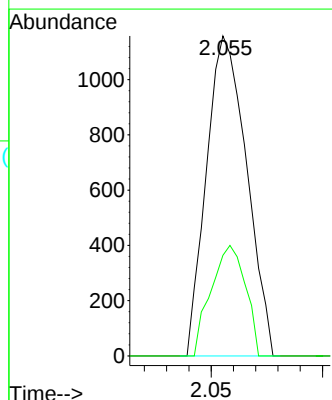
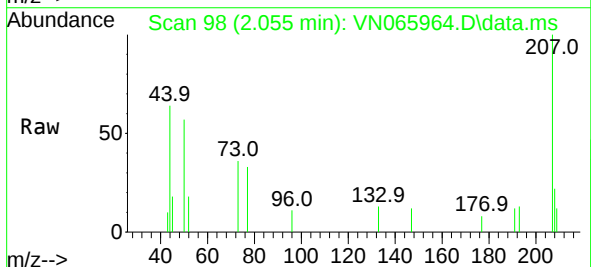
Acq: 22 Feb 2021 16:55

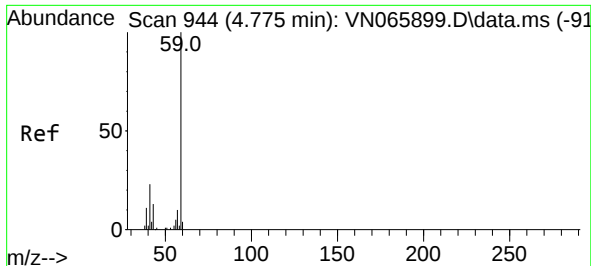
Tgt Ion: 50 Resp: 1448

Ion Ratio Lower Upper

50 100

52 31.4 25.8 38.8



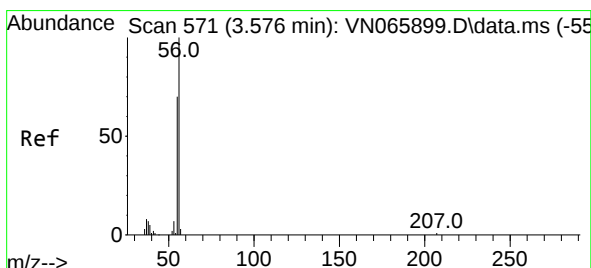
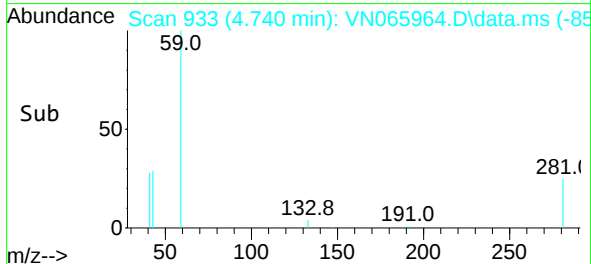
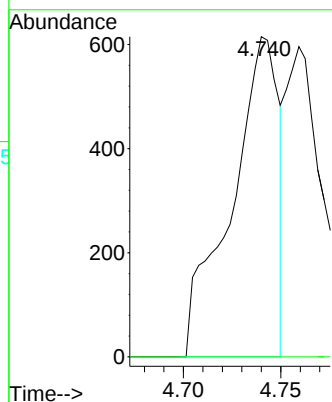
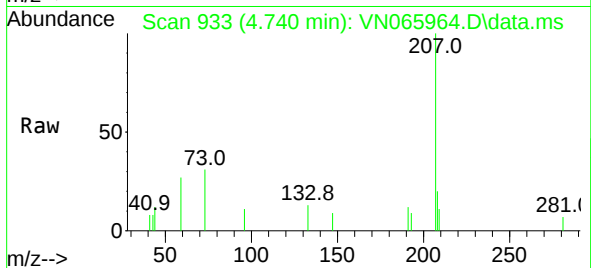


#11

Tert butyl alcohol  
Concen: 3.39 ug/l  
RT: 4.740 min Scan# 933  
Delta R.T. -0.035 min  
Lab File: VN065964.D  
Acq: 22 Feb 2021 16:55

Instrument :  
MSVOA\_N  
ClientSampled :

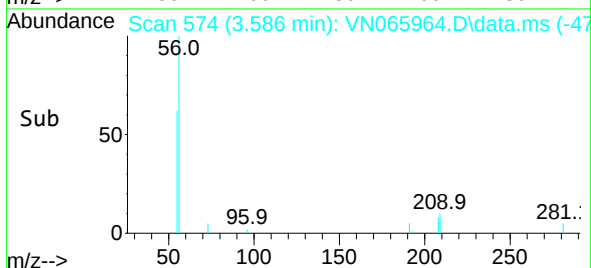
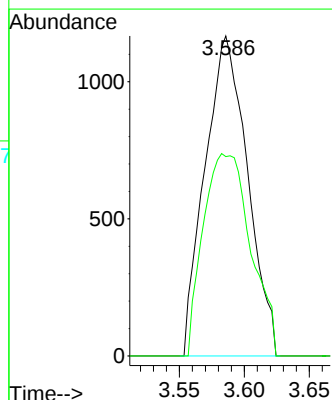
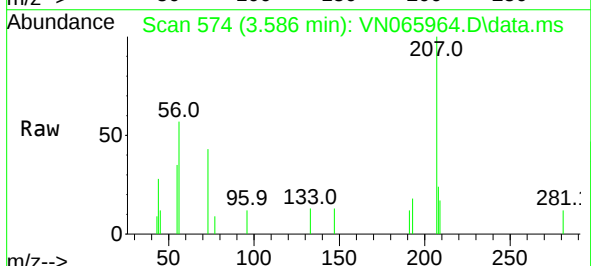
Tgt Ion: 59 Resp: 1039  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.0 12.0#

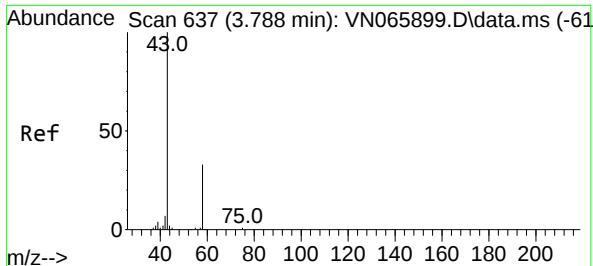


#13

Acrolein  
Concen: 9.46 ug/l  
RT: 3.586 min Scan# 574  
Delta R.T. 0.010 min  
Lab File: VN065964.D  
Acq: 22 Feb 2021 16:55

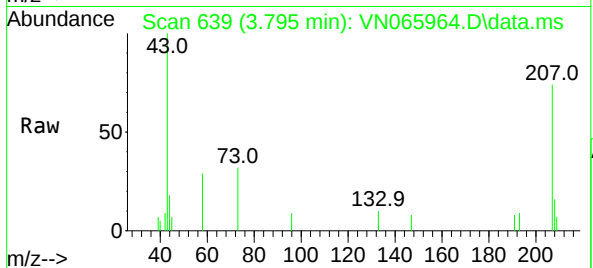
Tgt Ion: 56 Resp: 2655  
Ion Ratio Lower Upper  
56 100  
55 70.4 56.0 84.0



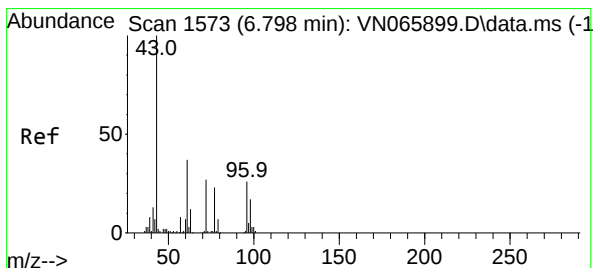
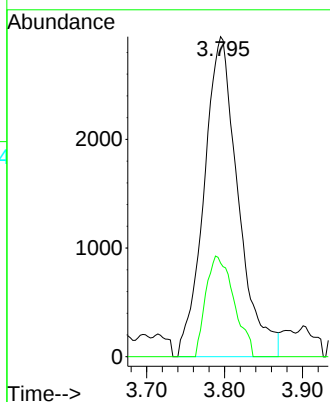
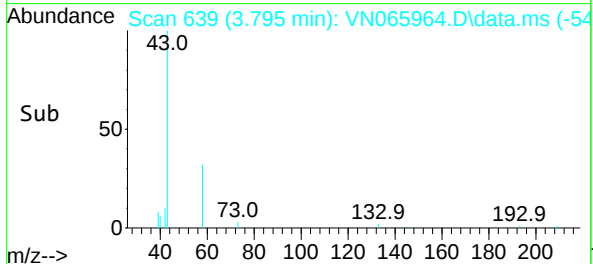


#16  
Acetone  
Concen: 11.39 ug/l  
RT: 3.795 min Scan# 639  
Delta R.T. 0.007 min  
Lab File: VN065964.D  
Acq: 22 Feb 2021 16:55

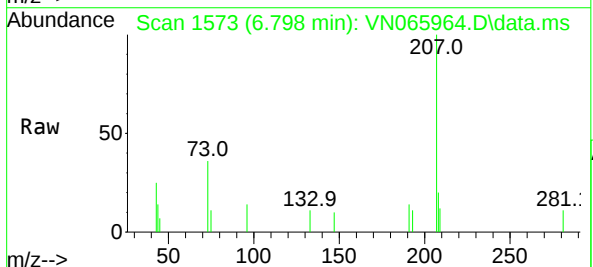
Instrument :  
MSVOA\_N  
ClientSampled :



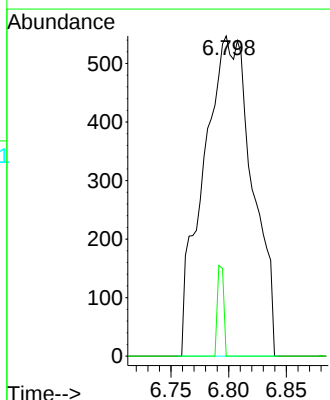
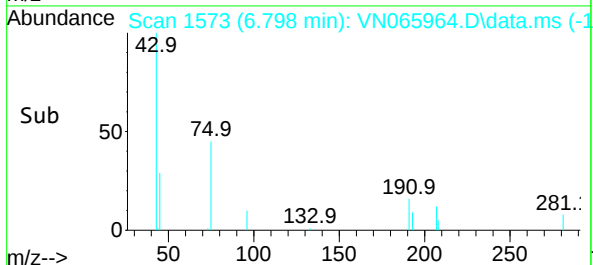
Tgt Ion: 43 Resp: 8956  
Ion Ratio Lower Upper  
43 100  
58 29.2 27.0 40.6

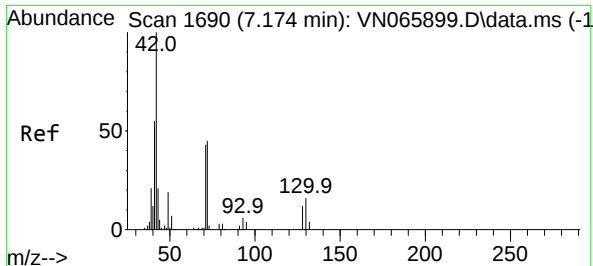


#25  
2-Butanone  
Concen: 1.48 ug/l  
RT: 6.798 min Scan# 1573  
Delta R.T. -0.000 min  
Lab File: VN065964.D  
Acq: 22 Feb 2021 16:55



Tgt Ion: 43 Resp: 1611  
Ion Ratio Lower Upper  
43 100  
72 0.0 23.1 34.7#





#29

Tetrahydrofuran

Concen: 1.00 ug/l

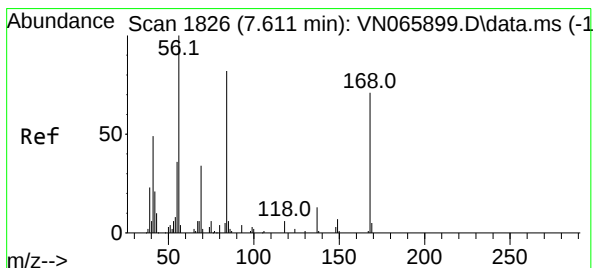
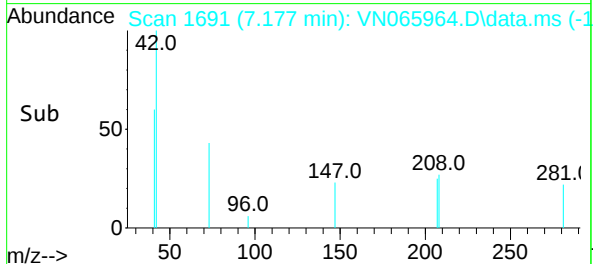
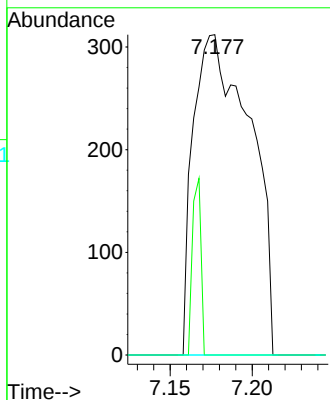
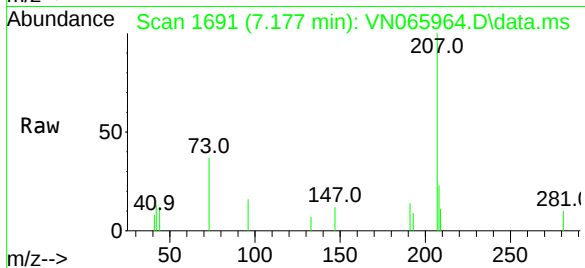
RT: 7.177 min Scan# 1691

Delta R.T. 0.003 min

Lab File: VN065964.D

Acq: 22 Feb 2021 16:55

|             |             |
|-------------|-------------|
| Tgt Ion: 42 | Resp: 750   |
| Ion Ratio   | Lower Upper |
| 42 100      |             |
| 72 8.3      | 36.6 55.0#  |
| 71 0.0      | 34.3 51.5#  |



#31

Cyclohexane

Concen: 0.93 ug/l

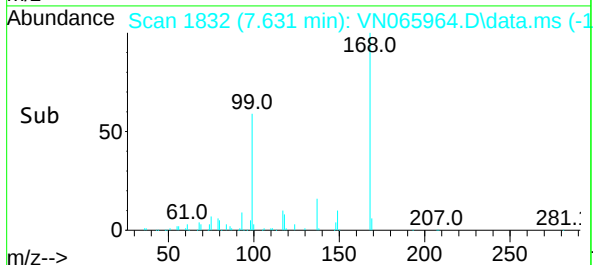
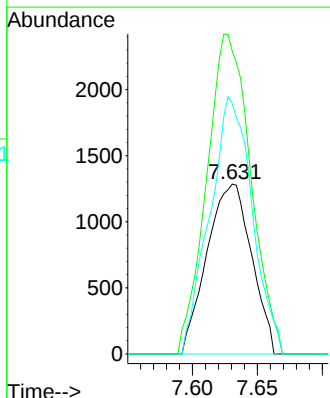
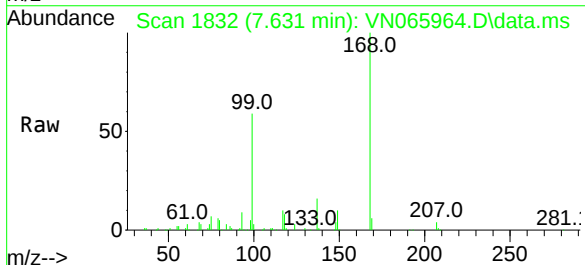
RT: 7.631 min Scan# 1832

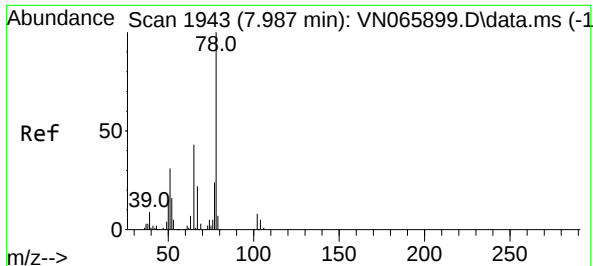
Delta R.T. 0.020 min

Lab File: VN065964.D

Acq: 22 Feb 2021 16:55

|             |            |       |        |
|-------------|------------|-------|--------|
| Tgt Ion: 56 | Resp: 3064 |       |        |
| Ion Ratio   | Lower      | Upper |        |
| 56          | 100        |       |        |
| 69          | 178.1      | 26.6  | 39.8#  |
| 84          | 147.5      | 70.4  | 105.6# |

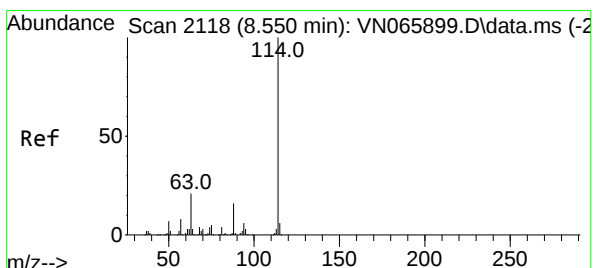
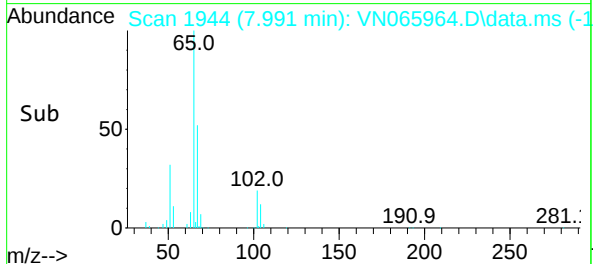
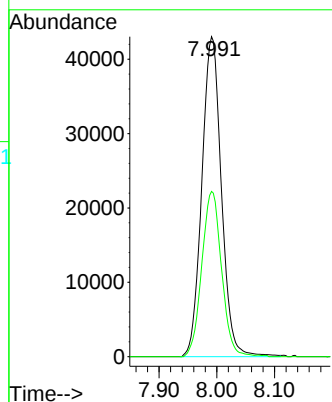
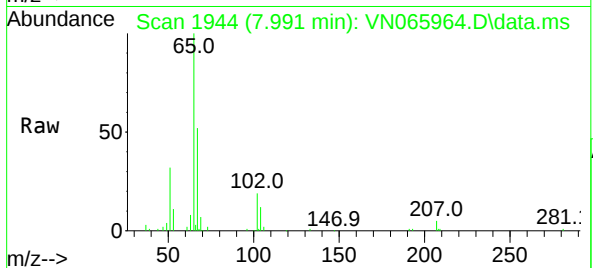




#33  
1,2-Dichloroethane-d4  
Concen: 45.95 ug/l  
RT: 7.991 min Scan# 1944  
Delta R.T. 0.004 min  
Lab File: VN065964.D  
Acq: 22 Feb 2021 16:55

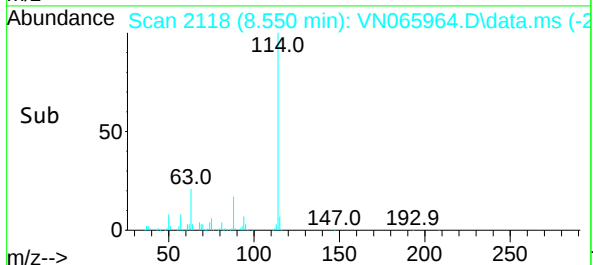
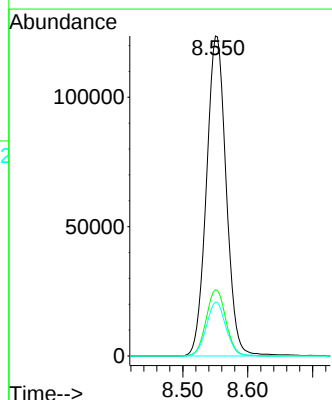
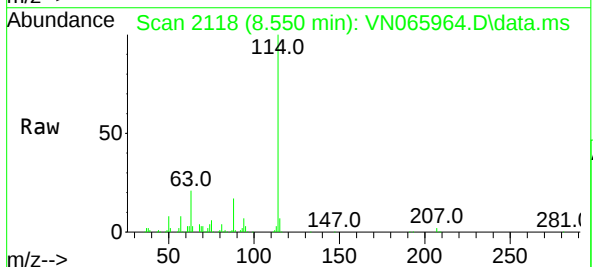
Instrument :  
MSVOA\_N  
ClientSampled :

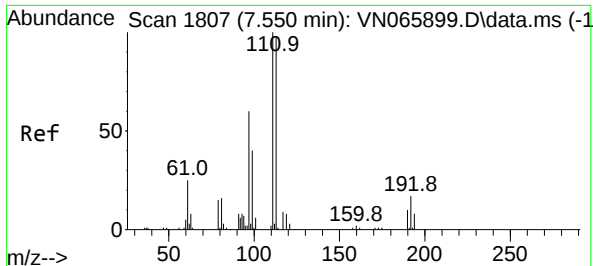
Tgt Ion: 65 Resp: 101391  
Ion Ratio Lower Upper  
65 100  
67 52.0 0.0 107.2



#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.550 min Scan# 2118  
Delta R.T. 0.000 min  
Lab File: VN065964.D  
Acq: 22 Feb 2021 16:55

Tgt Ion: 114 Resp: 261122  
Ion Ratio Lower Upper  
114 100  
63 20.6 0.0 38.6  
88 16.9 0.0 30.6





#35

Dibromofluoromethane

Concen: 48.46 ug/l

RT: 7.553 min Scan# 1808

Delta R.T. 0.003 min

Lab File: VN065964.D

Acq: 22 Feb 2021 16:55

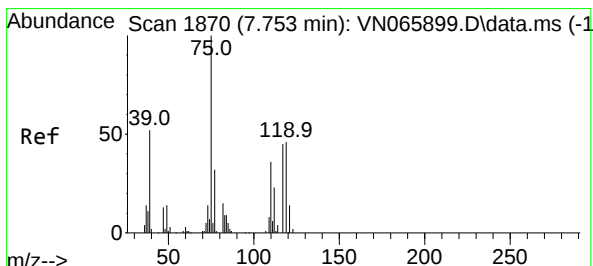
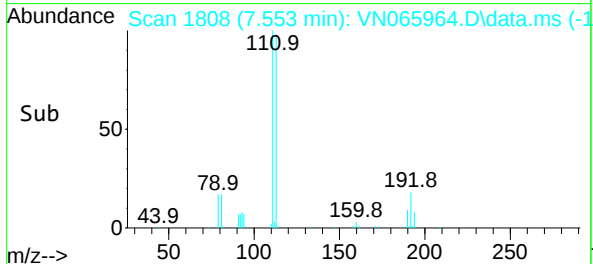
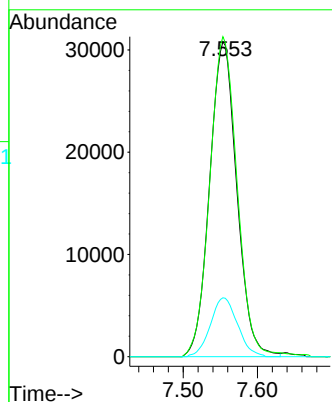
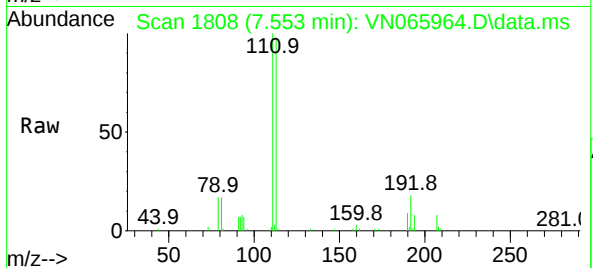
Tgt Ion:113 Resp: 78307

Ion Ratio Lower Upper

113 100

111 102.4 82.2 123.2

192 18.7 15.4 23.0



#36

1,1-Dichloropropene

Concen: 4.80 ug/l

RT: 7.627 min Scan# 1831

Delta R.T. -0.126 min

Lab File: VN065964.D

Acq: 22 Feb 2021 16:55

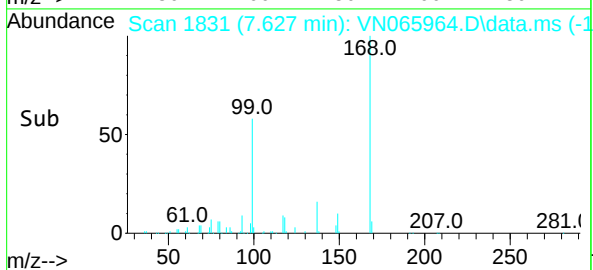
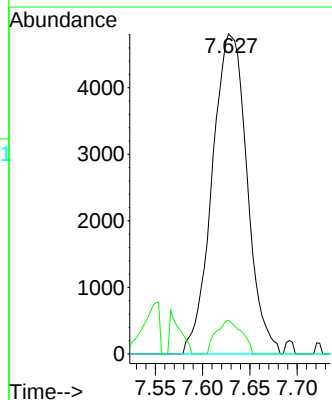
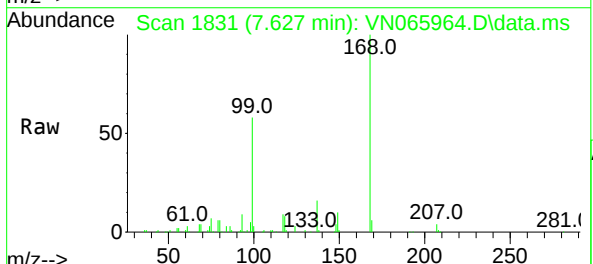
Tgt Ion: 75 Resp: 12349

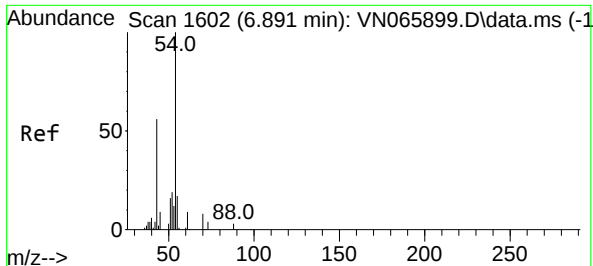
Ion Ratio Lower Upper

75 100

110 7.7 18.2 54.6#

77 0.0 24.9 37.3#

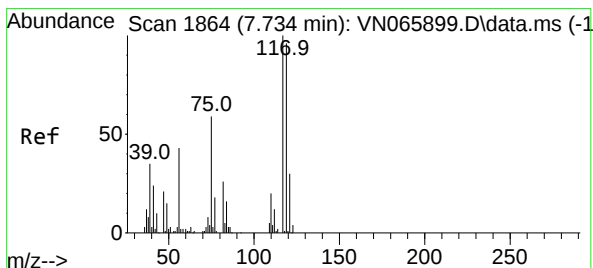
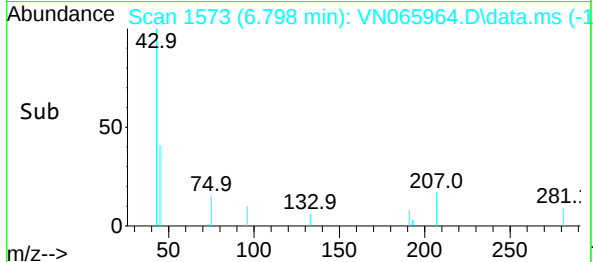
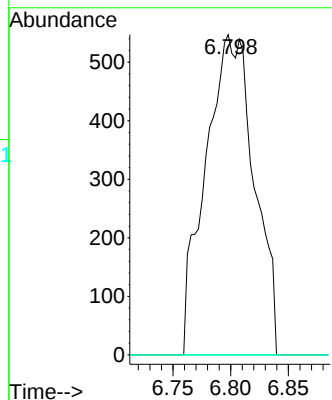
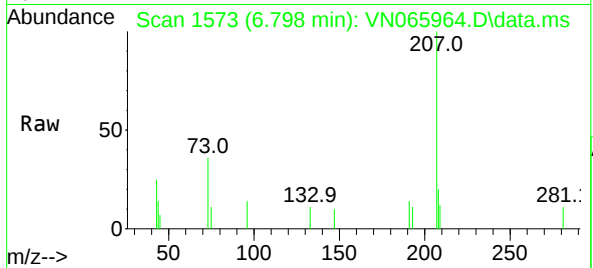




#37  
Ethyl Acetate  
Concen: 0.69 ug/l  
RT: 6.798 min Scan# 1573  
Delta R.T. -0.093 min  
Lab File: VN065964.D  
Acq: 22 Feb 2021 16:55

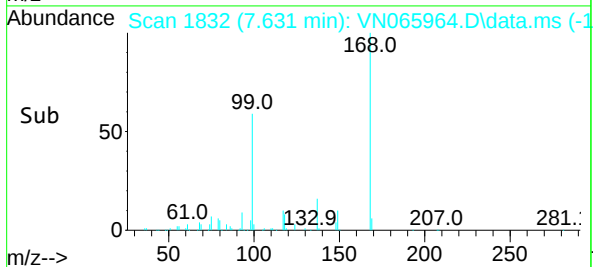
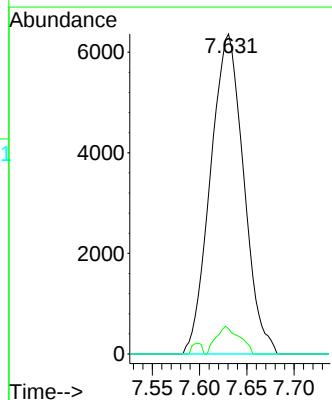
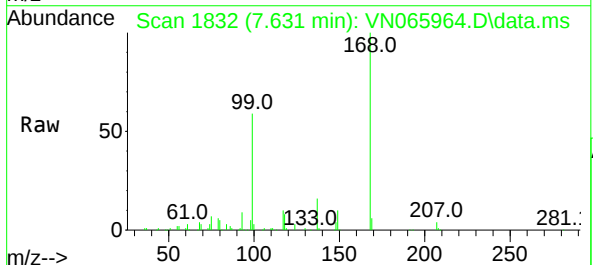
Instrument :  
MSVOA\_N  
ClientSampled :

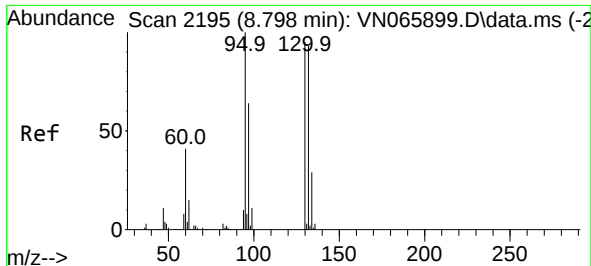
Tgt Ion: 43 Resp: 1611  
Ion Ratio Lower Upper  
43 100  
61 0.0 11.6 17.4#  
70 0.0 8.6 13.0#



#38  
Carbon Tetrachloride  
Concen: 6.49 ug/l  
RT: 7.631 min Scan# 1832  
Delta R.T. -0.103 min  
Lab File: VN065964.D  
Acq: 22 Feb 2021 16:55

Tgt Ion: 117 Resp: 15531  
Ion Ratio Lower Upper  
117 100  
119 7.9 76.0 114.0#  
121 0.0 24.5 36.7#

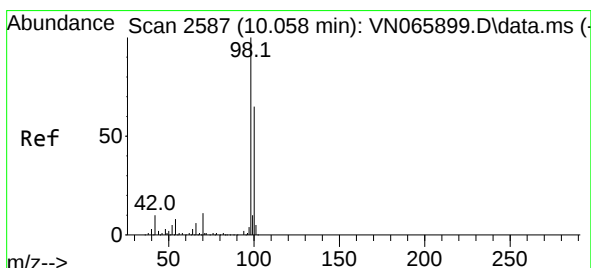
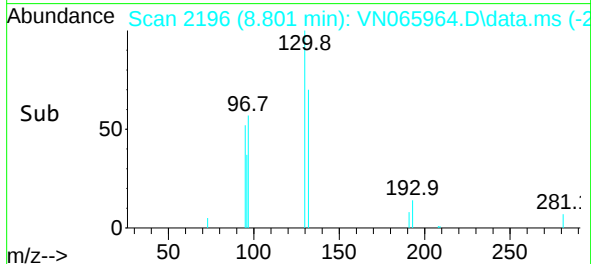
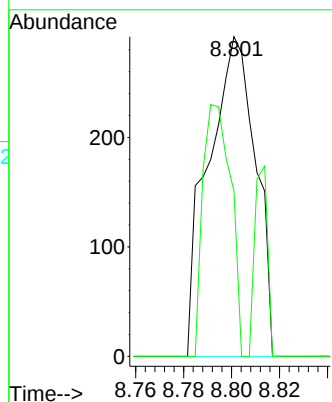
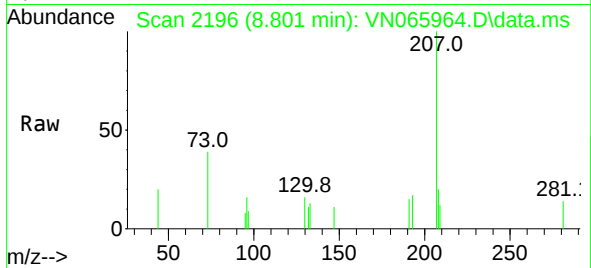




#44  
Trichloroethene  
Concen: 0.20 ug/l  
RT: 8.801 min Scan# 2196  
Delta R.T. 0.003 min  
Lab File: VN065964.D  
Acq: 22 Feb 2021 16:55

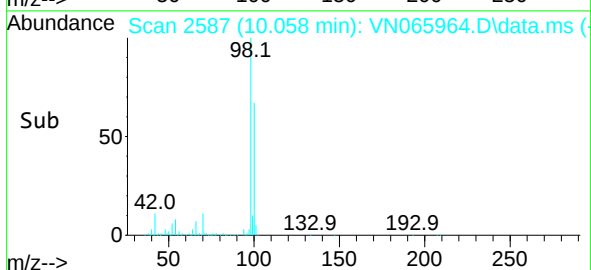
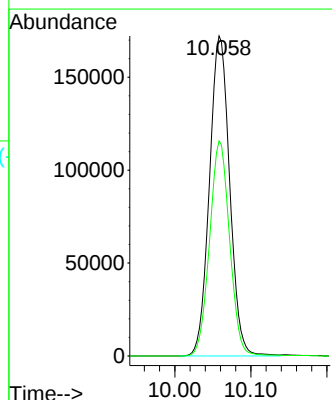
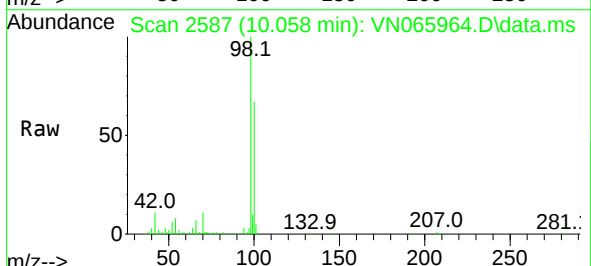
Instrument :  
MSVOA\_N  
ClientSampleId :

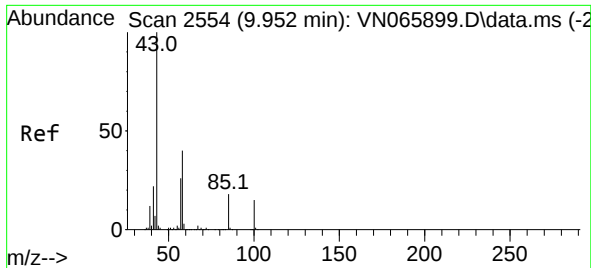
Tgt Ion:130 Resp: 400  
Ion Ratio Lower Upper  
130 100  
95 51.7 0.0 199.6



#50  
Toluene-d8  
Concen: 47.93 ug/l  
RT: 10.058 min Scan# 2587  
Delta R.T. 0.000 min  
Lab File: VN065964.D  
Acq: 22 Feb 2021 16:55

Tgt Ion: 98 Resp: 317972  
Ion Ratio Lower Upper  
98 100  
100 66.6 50.5 75.7

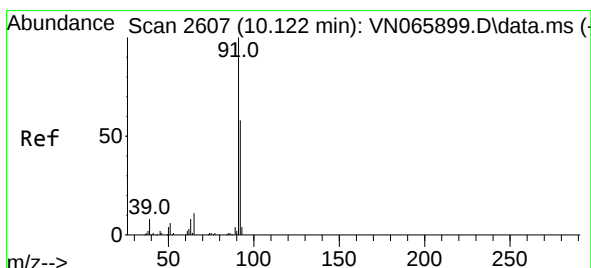
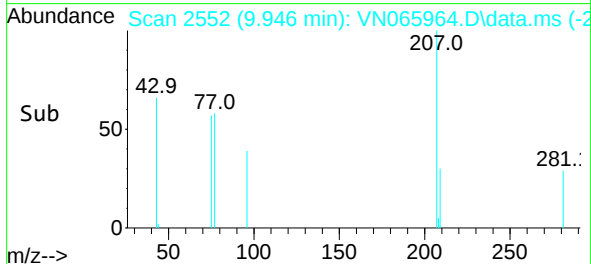
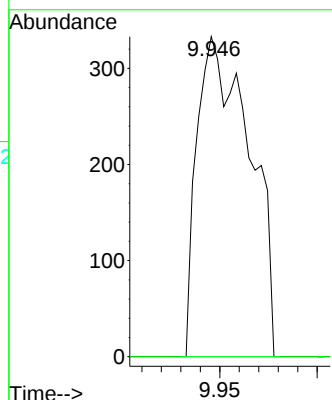
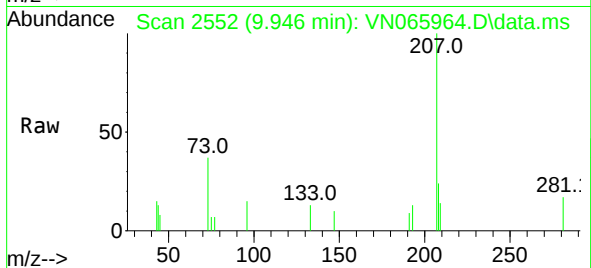




#51  
4-Methyl-2-Pentanone  
Concen: 0.28 ug/l  
RT: 9.946 min Scan# 2552  
Delta R.T. -0.006 min  
Lab File: VN065964.D  
Acq: 22 Feb 2021 16:55

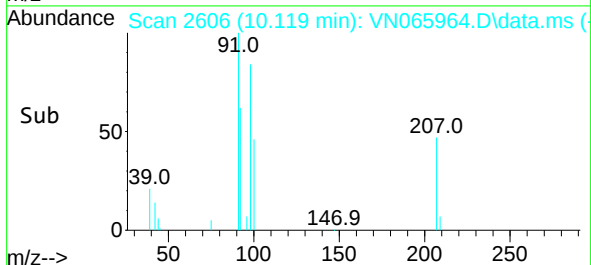
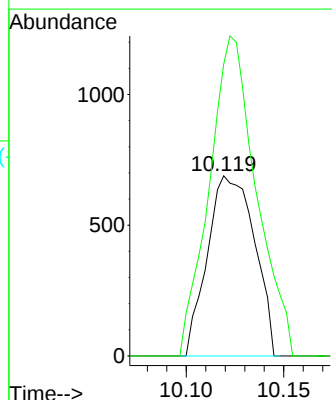
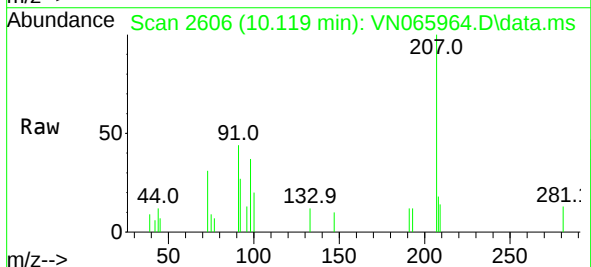
Instrument :  
MSVOA\_N  
ClientSampled :

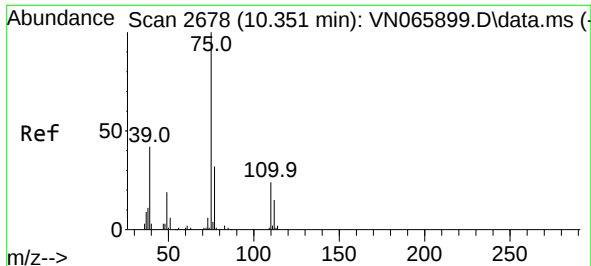
Tgt Ion: 43 Resp: 624  
Ion Ratio Lower Upper  
43 100  
58 0.0 32.5 48.7#



#52  
Toluene  
Concen: 0.24 ug/l  
RT: 10.119 min Scan# 2606  
Delta R.T. -0.003 min  
Lab File: VN065964.D  
Acq: 22 Feb 2021 16:55

Tgt Ion: 92 Resp: 1155  
Ion Ratio Lower Upper  
92 100  
91 177.7 140.7 211.1

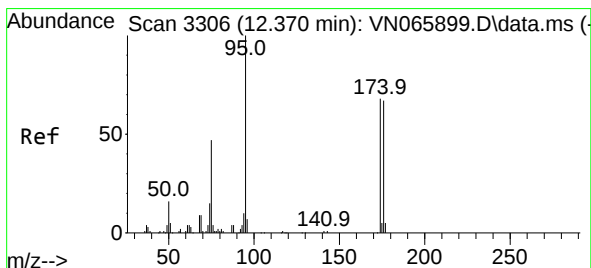
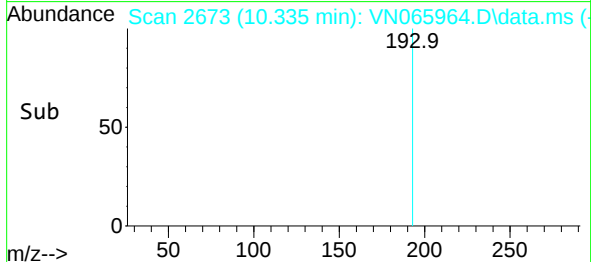
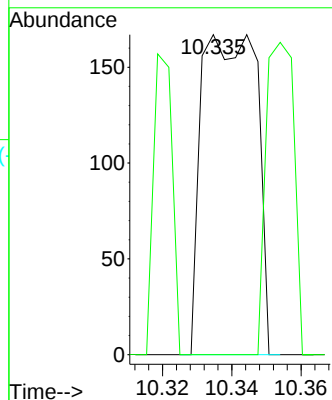
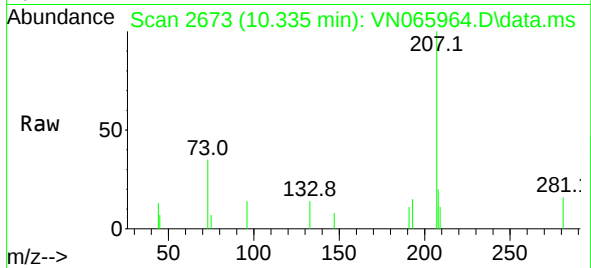




#53  
t-1,3-Dichloropropene  
Concen: 2.04 ug/l  
RT: 10.335 min Scan# 2673  
Delta R.T. -0.016 min  
Lab File: VN065964.D  
Acq: 22 Feb 2021 16:55

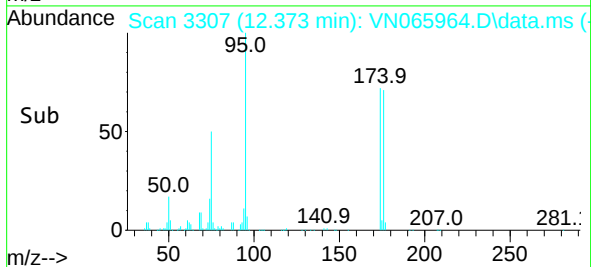
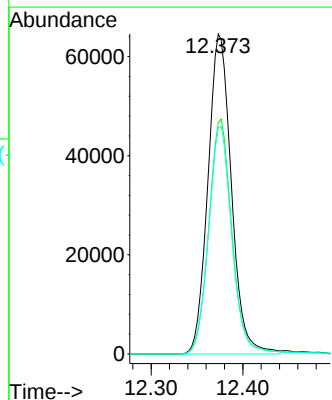
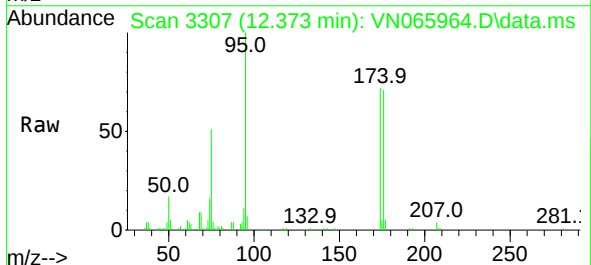
Instrument :  
MSVOA\_N  
ClientSampleId :

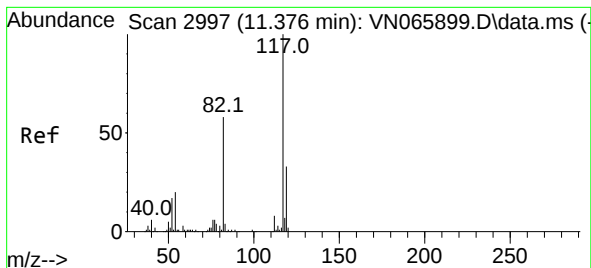
Tgt Ion: 75 Resp: 184  
Ion Ratio Lower Upper  
75 100  
77 0.0 26.2 39.4#



#62  
4-Bromofluorobenzene  
Concen: 45.99 ug/l  
RT: 12.373 min Scan# 3307  
Delta R.T. 0.003 min  
Lab File: VN065964.D  
Acq: 22 Feb 2021 16:55

Tgt Ion: 95 Resp: 114535  
Ion Ratio Lower Upper  
95 100  
174 72.6 0.0 169.0  
176 70.6 0.0 162.4

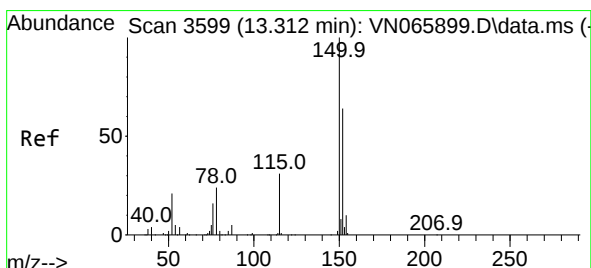
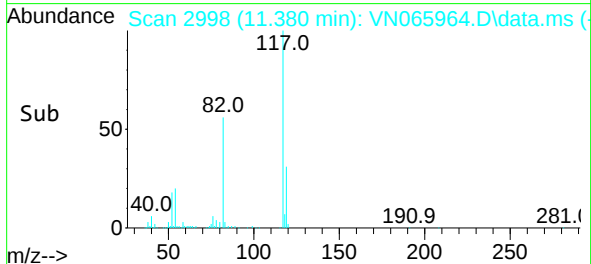
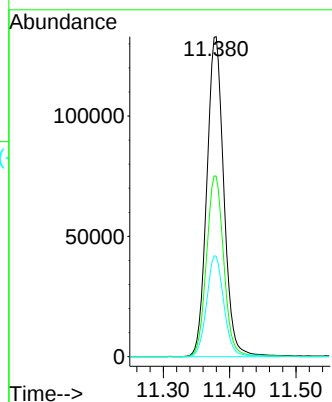
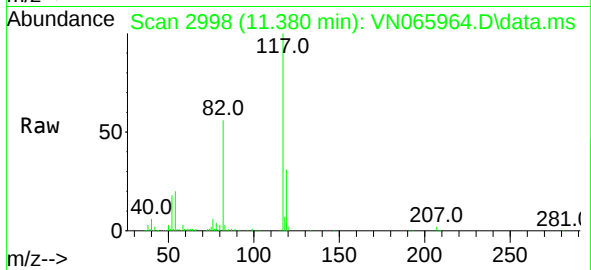




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.380 min Scan# 2998  
Delta R.T. 0.004 min  
Lab File: VN065964.D  
Acq: 22 Feb 2021 16:55

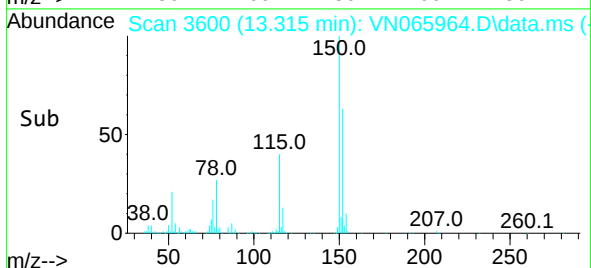
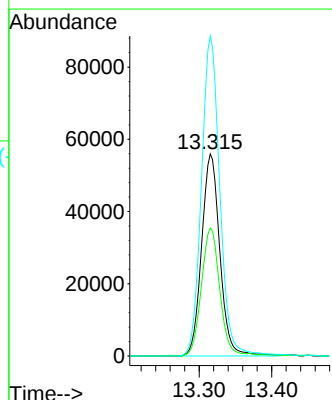
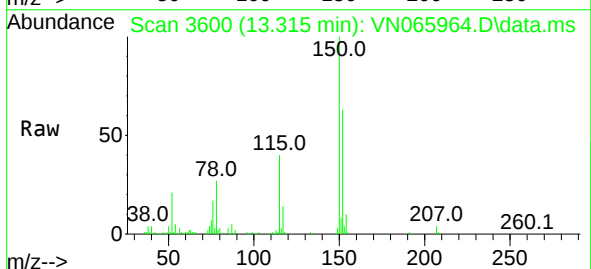
Instrument :  
MSVOA\_N  
ClientSampleId :

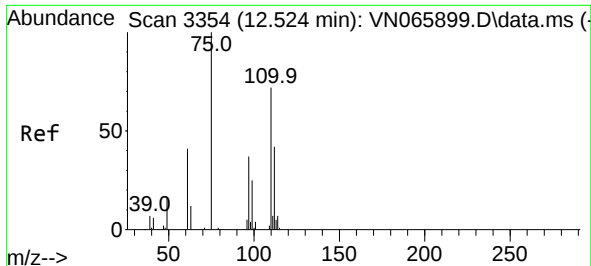
Tgt Ion:117 Resp: 237747  
Ion Ratio Lower Upper  
117 100  
82 56.4 43.7 65.5  
119 31.4 26.1 39.1



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.315 min Scan# 3600  
Delta R.T. 0.003 min  
Lab File: VN065964.D  
Acq: 22 Feb 2021 16:55

Tgt Ion:152 Resp: 97835  
Ion Ratio Lower Upper  
152 100  
115 63.7 28.5 85.6  
150 159.8 0.0 347.6

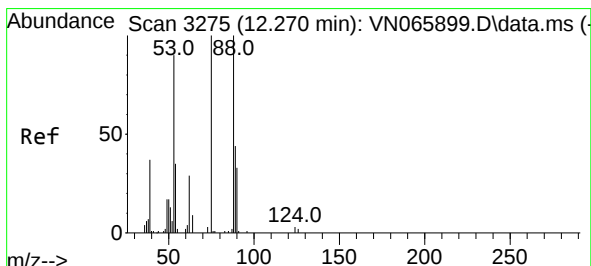
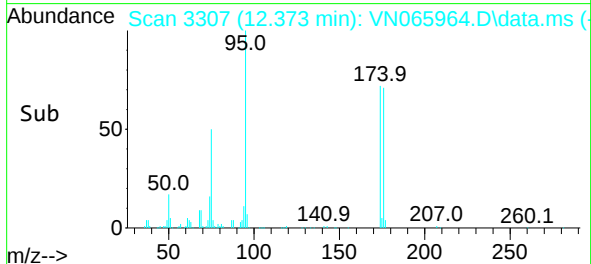
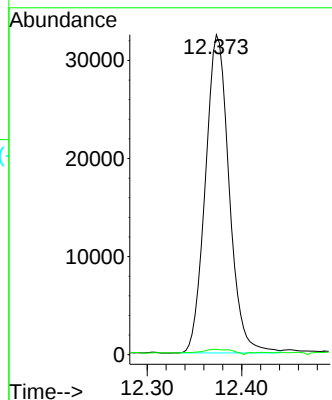
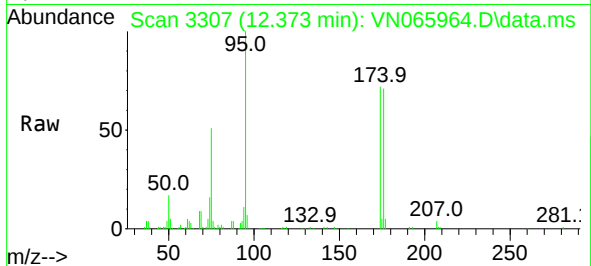




#76  
1,2,3-Trichloropropane  
Concen: 24.13 ug/l  
RT: 12.373 min Scan# 3307  
Delta R.T. -0.151 min  
Lab File: VN065964.D  
Acq: 22 Feb 2021 16:55

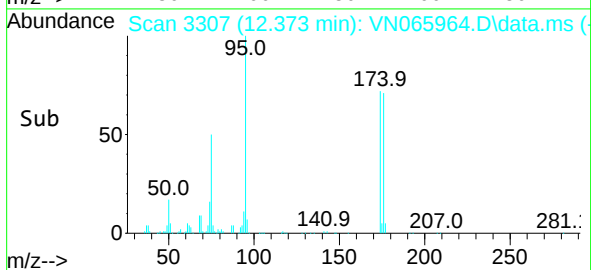
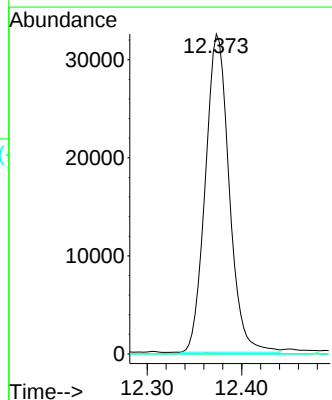
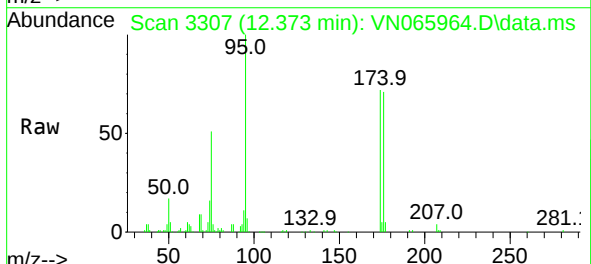
Instrument :  
MSVOA\_N  
ClientSampleId :

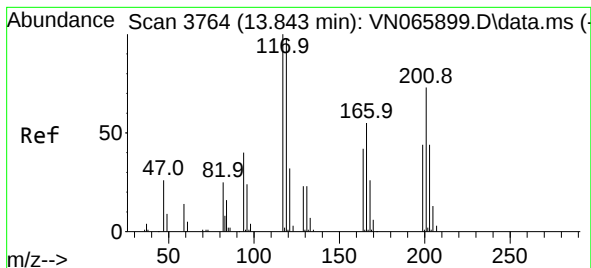
Tgt Ion: 75 Resp: 56708  
Ion Ratio Lower Upper  
75 100  
77 2.3 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 76.90 ug/l  
RT: 12.373 min Scan# 3307  
Delta R.T. 0.103 min  
Lab File: VN065964.D  
Acq: 22 Feb 2021 16:55

Tgt Ion: 75 Resp: 56708  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.6 111.8#  
89 0.1 35.8 53.8#





#90

Hexachloroethane

Concen: 0.20 ug/l

RT: 13.846 min Scan# 3765

Delta R.T. 0.003 min

Lab File: VN065964.D

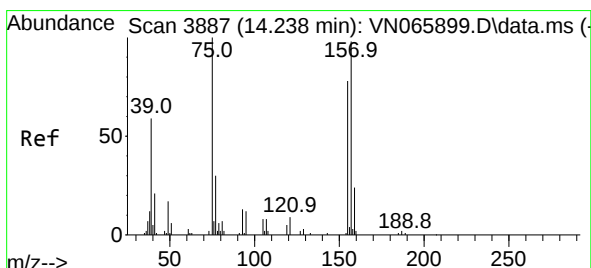
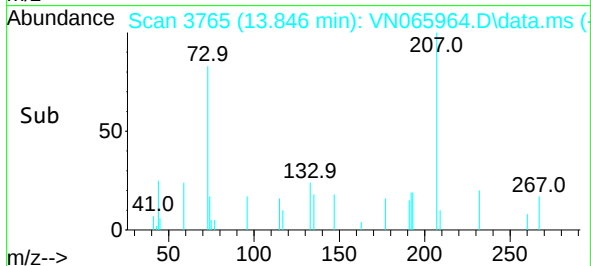
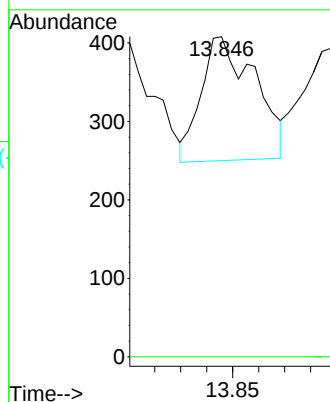
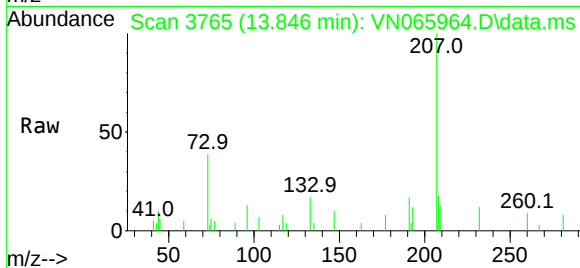
Acq: 22 Feb 2021 16:55

Tgt Ion:117 Resp: 228

Ion Ratio Lower Upper

117 100

201 0.0 37.8 113.3#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.16 ug/l

RT: 14.251 min Scan# 3891

Delta R.T. 0.013 min

Lab File: VN065964.D

Acq: 22 Feb 2021 16:55

Tgt Ion: 75 Resp: 149

Ion Ratio Lower Upper

75 100

155 0.0 44.1 132.4#

157 0.0 56.0 168.2#

