

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081221\  
 Data File : VN068100.D  
 Acq On : 12 Aug 2021 19:32  
 Operator : JC/MD  
 Sample : M3361-18 50X  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Aug 13 05:46:40 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N072921W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 29 15:02:35 2021  
 Response via : Initial Calibration

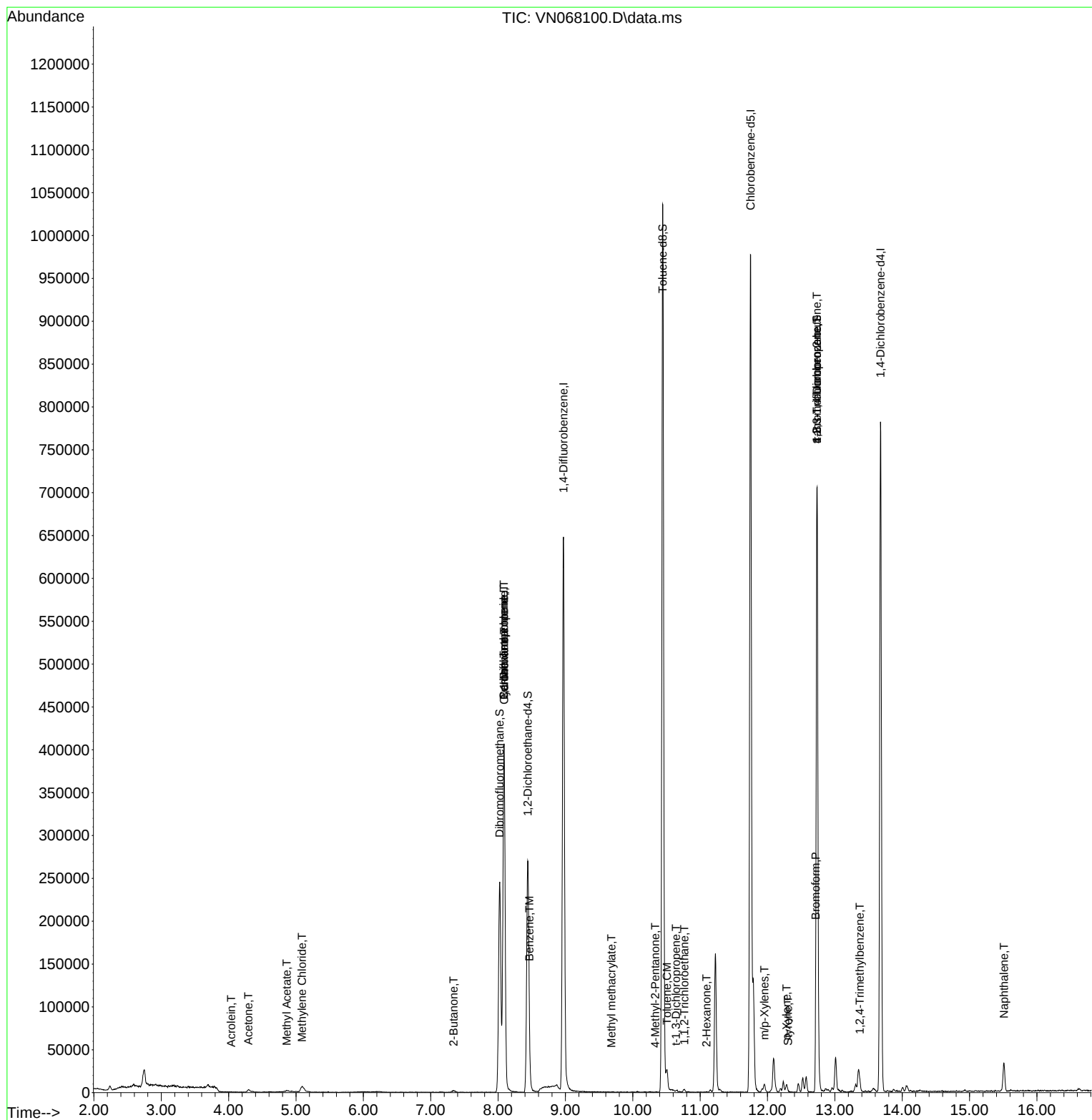
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 8.088          | 168  | 296368              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.971          | 114  | 577633              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.749         | 117  | 575115              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.678         | 152  | 206166              | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.440          | 65   | 231909              | 55.274 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = 110.540% |        |        |          |
| 35) Dibromofluoromethane      | 8.024          | 113  | 179982              | 53.465 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = 106.920% |        |        |          |
| 50) Toluene-d8                | 10.443         | 98   | 735659              | 47.557 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = 95.120%  |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.734         | 95   | 254188              | 45.227 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = 90.460%  |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        | Qvalue |          |
| 13) Acrolein                  | 4.039          | 56   | 230                 | 0.603  | ug/l # | 14       |
| 16) Acetone                   | 4.293          | 43   | 3044                | 1.988  | ug/l   | 92       |
| 18) Methyl Acetate            | 4.862          | 43   | 1361                | 0.268  | ug/l   | 95       |
| 20) Methylene Chloride        | 5.090          | 84   | 3781                | 0.790  | ug/l # | 78       |
| 25) 2-Butanone                | 7.340          | 43   | 527                 | 0.237  | ug/l # | 51       |
| 31) Cyclohexane               | 8.091          | 56   | 7264                | 1.174  | ug/l # | 14       |
| 36) 1,1-Dichloropropene       | 8.088          | 75   | 26190               | 4.902  | ug/l # | 46       |
| 38) Carbon Tetrachloride      | 8.088          | 117  | 33857               | 6.443  | ug/l # | 17       |
| 40) Benzene                   | 8.464          | 78   | 15679               | 0.991  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.681          | 41   | 26                  | 2.311  | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.336         | 43   | 186                 | 12.596 | ug/l # | 39       |
| 52) Toluene                   | 10.508         | 92   | 8065                | 0.785  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.642         | 75   | 24                  | 2.837  | ug/l # | 1        |
| 55) 1,1,2-Trichloroethane     | 10.765         | 97   | 3365                | 0.844  | ug/l # | 14       |
| 59) 2-Hexanone                | 11.095         | 43   | 473                 | 13.391 | ug/l # | 28       |
| 68) m/p-Xylenes               | 11.956         | 106  | 3304                | 4.410  | ug/l   | 75       |
| 69) o-Xylene                  | 12.283         | 106  | 1915                | 0.250  | ug/l   | 87       |
| 70) Styrene                   | 12.304         | 104  | 1154                | 2.704  | ug/l # | 88       |
| 71) Bromoform                 | 12.715         | 173  | 136                 | 4.065  | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.734         | 75   | 138624              | 33.481 | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.734         | 75   | 138624              | 89.804 | ug/l # | 6        |
| 84) 1,2,4-Trimethylbenzene    | 13.372         | 105  | 2817                | 0.213  | ug/l   | 98       |
| 95) Naphthalene               | 15.509         | 128  | 30772               | 6.477  | ug/l   | 98       |
| -----                         |                |      |                     |        |        |          |

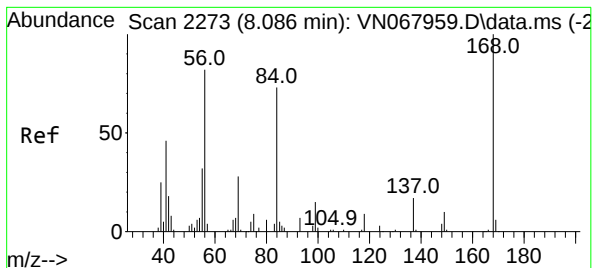
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_N  
ClientSampleId :

Quant Time: Aug 13 05:46:40 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N072921W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jul 29 15:02:35 2021  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.088 min Scan# 2274

Delta R.T. 0.002 min

Lab File: VN068100.D

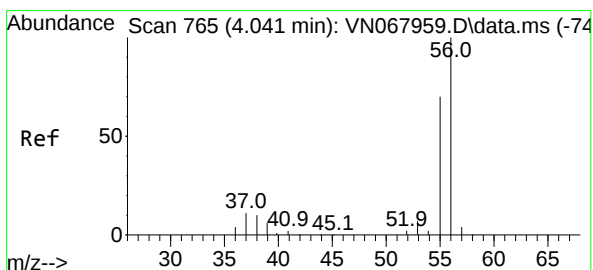
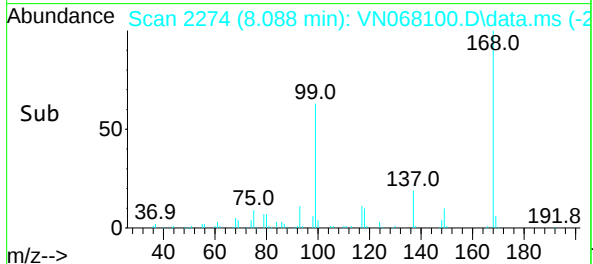
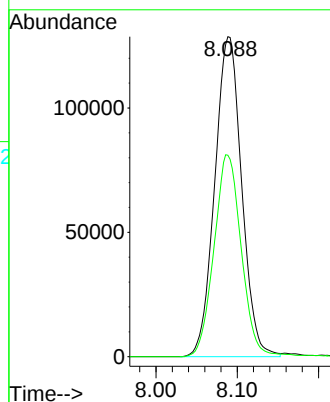
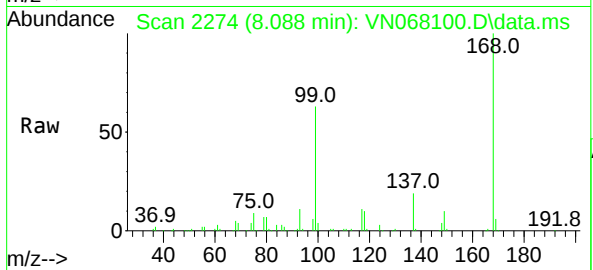
Acq: 12 Aug 2021 19:32

Tgt Ion:168 Resp: 296368

Ion Ratio Lower Upper

168 100

99 62.9 62.9 94.3



#13

Acrolein

Concen: 0.603 ug/l

RT: 4.039 min Scan# 764

Delta R.T. -0.002 min

Lab File: VN068100.D

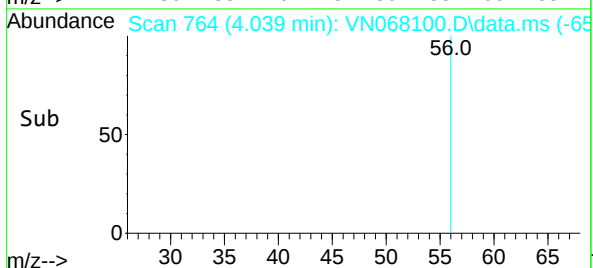
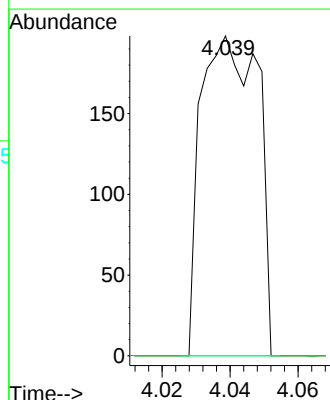
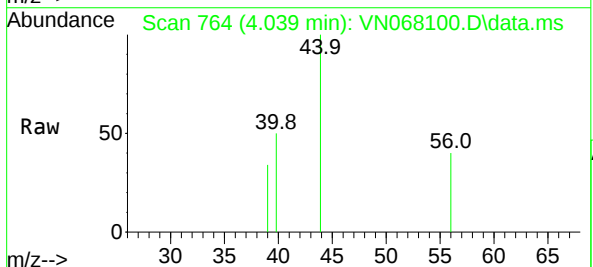
Acq: 12 Aug 2021 19:32

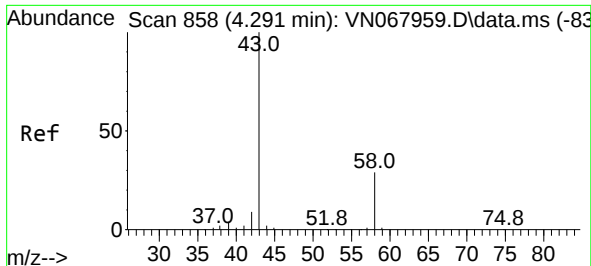
Tgt Ion: 56 Resp: 230

Ion Ratio Lower Upper

56 100

55 0.0 57.4 86.0#

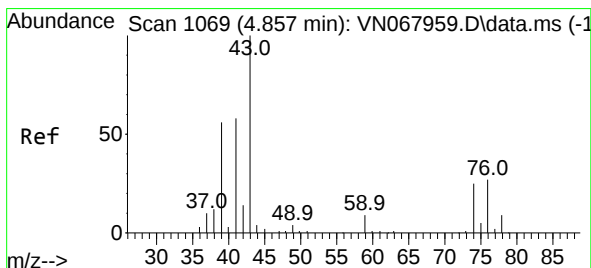
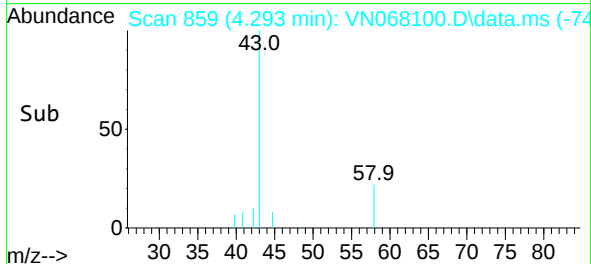
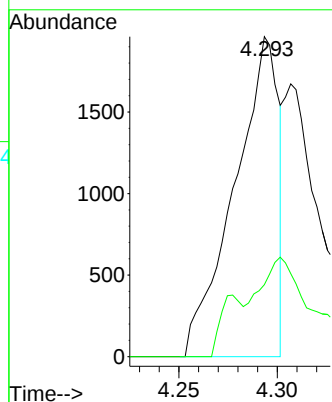
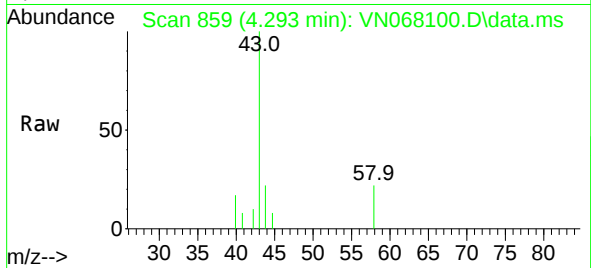




#16  
Acetone  
Concen: 1.988 ug/l  
RT: 4.293 min Scan# 859  
Delta R.T. 0.002 min  
Lab File: VN068100.D  
Acq: 12 Aug 2021 19:32

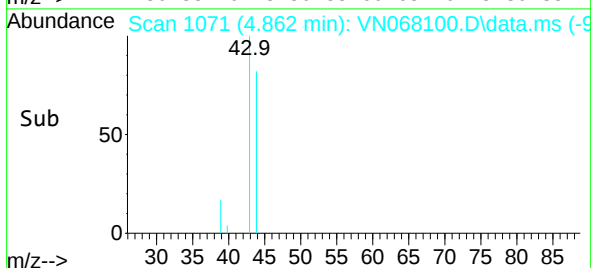
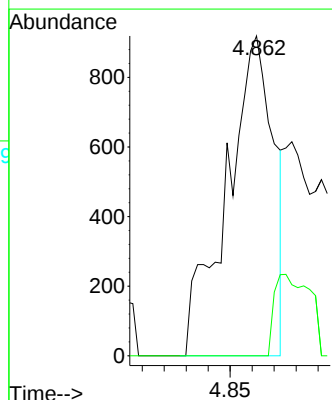
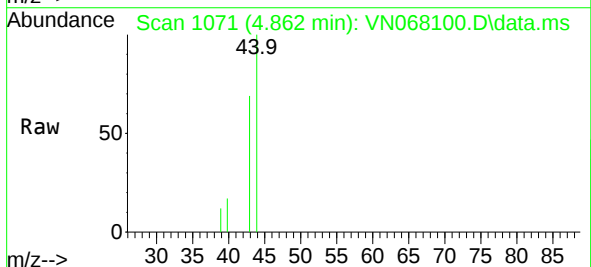
Instrument :  
MSVOA\_N  
ClientSampled :

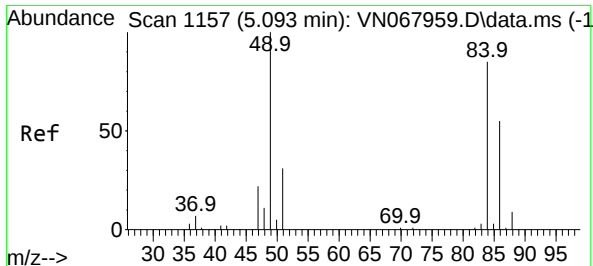
Tgt Ion: 43 Resp: 3044  
Ion Ratio Lower Upper  
43 100  
58 22.5 21.2 31.8



#18  
Methyl Acetate  
Concen: 0.268 ug/l  
RT: 4.862 min Scan# 1071  
Delta R.T. 0.005 min  
Lab File: VN068100.D  
Acq: 12 Aug 2021 19:32

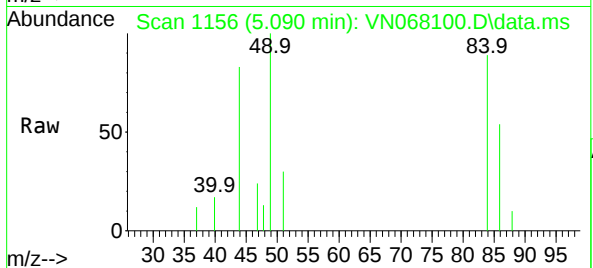
Tgt Ion: 43 Resp: 1361  
Ion Ratio Lower Upper  
43 100  
74 19.1 17.4 26.0



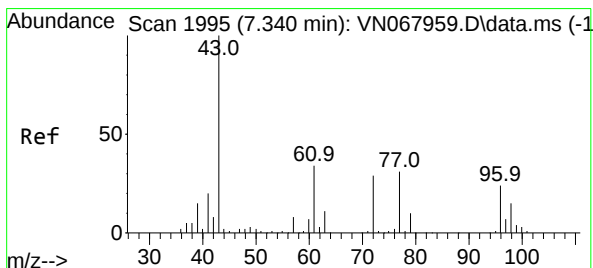
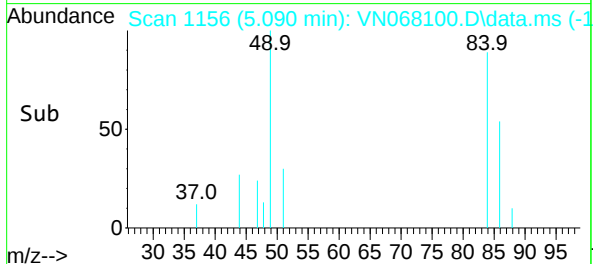
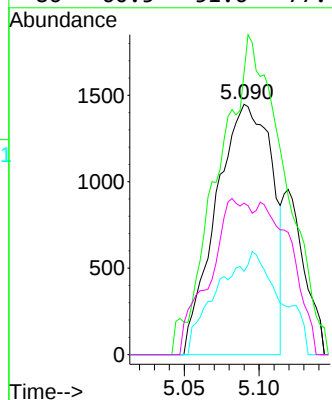


#20  
Methylene Chloride  
Concen: 0.790 ug/l  
RT: 5.090 min Scan# 1156  
Delta R.T. -0.003 min  
Lab File: VN068100.D  
Acq: 12 Aug 2021 19:32

Instrument :  
MSVOA\_N  
ClientSampled :

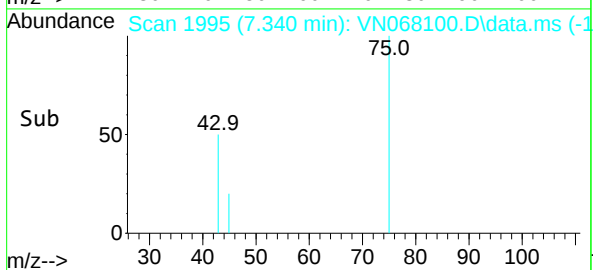
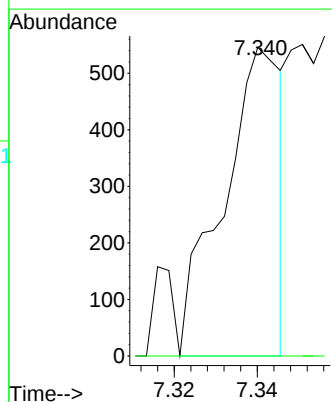
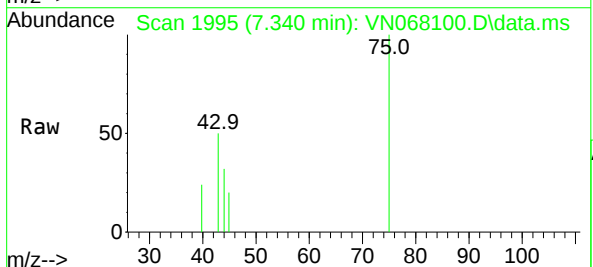


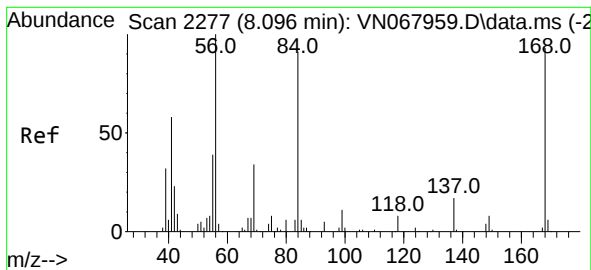
Tgt Ion: 84 Resp: 3781  
Ion Ratio Lower Upper  
84 100  
49 98.1 110.9 166.3#  
51 33.3 32.6 49.0  
86 60.5 51.6 77.4



#25  
2-Butanone  
Concen: 0.237 ug/l  
RT: 7.340 min Scan# 1995  
Delta R.T. 0.000 min  
Lab File: VN068100.D  
Acq: 12 Aug 2021 19:32

Tgt Ion: 43 Resp: 527  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.7 29.5#

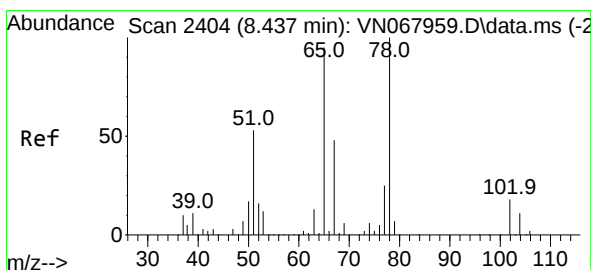
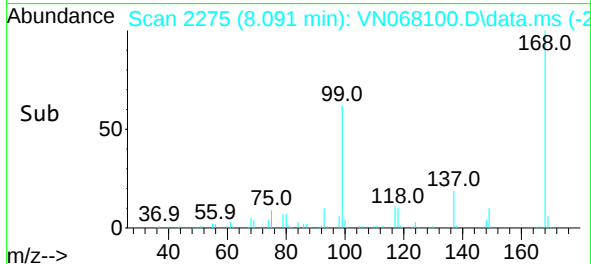
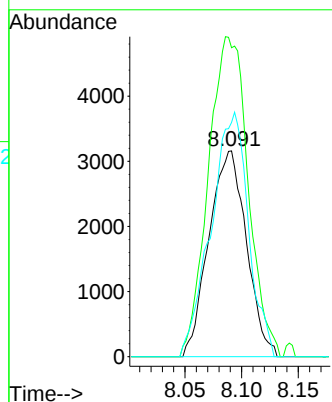
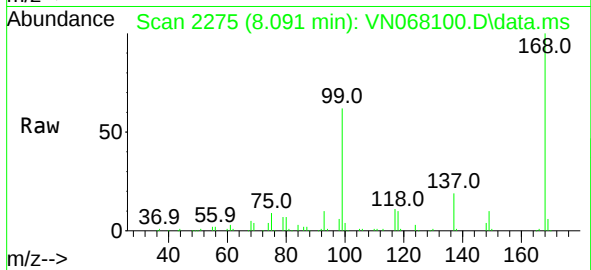




#31  
Cyclohexane  
Concen: 1.174 ug/l  
RT: 8.091 min Scan# 2275  
Delta R.T. -0.005 min  
Lab File: VN068100.D  
Acq: 12 Aug 2021 19:32

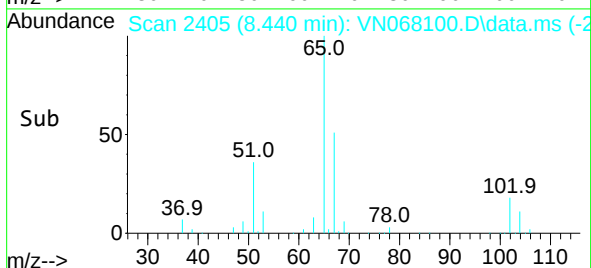
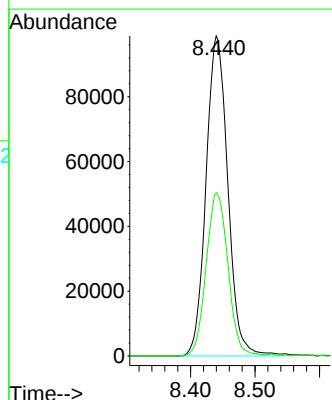
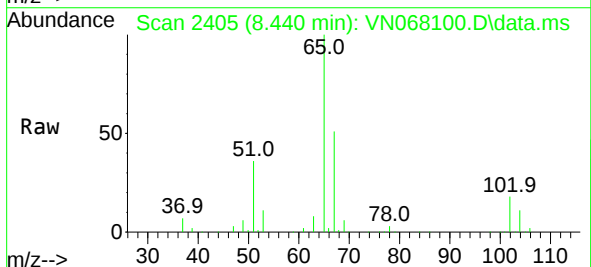
Instrument :  
MSVOA\_N  
ClientSampled :

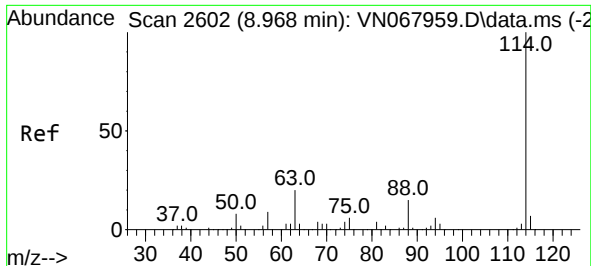
Tgt Ion: 56 Resp: 7264  
Ion Ratio Lower Upper  
56 100  
69 150.1 27.3 40.9#  
84 113.8 64.9 97.3#



#33  
1,2-Dichloroethane-d4  
Concen: 55.274 ug/l  
RT: 8.440 min Scan# 2405  
Delta R.T. 0.003 min  
Lab File: VN068100.D  
Acq: 12 Aug 2021 19:32

Tgt Ion: 65 Resp: 231909  
Ion Ratio Lower Upper  
65 100  
67 51.0 0.0 98.6

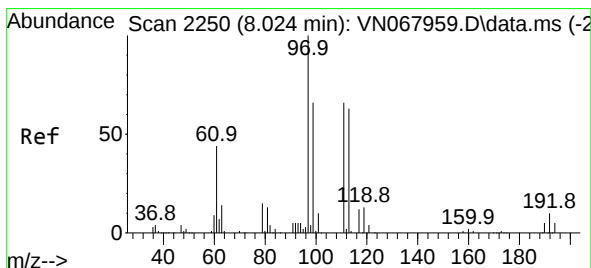
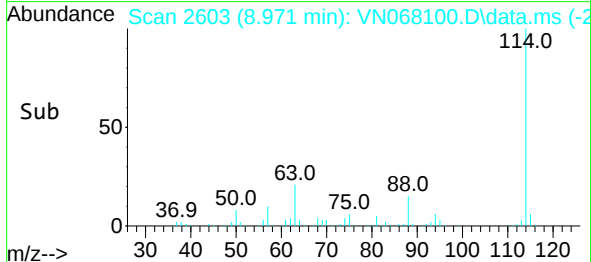
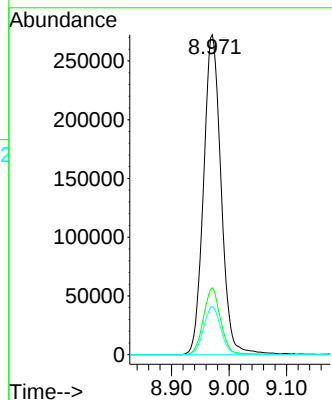
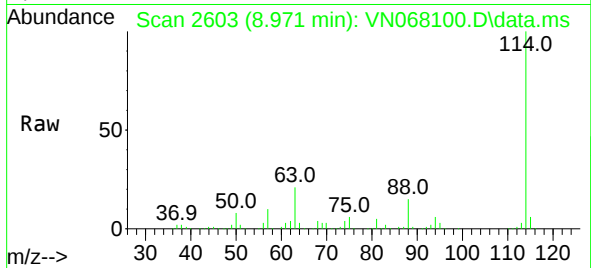




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.971 min Scan# 2603  
Delta R.T. 0.003 min  
Lab File: VN068100.D  
Acq: 12 Aug 2021 19:32

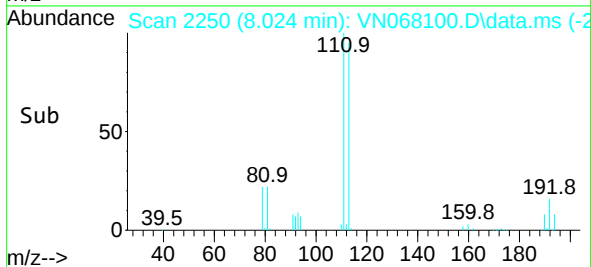
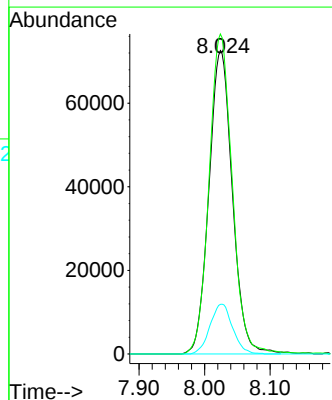
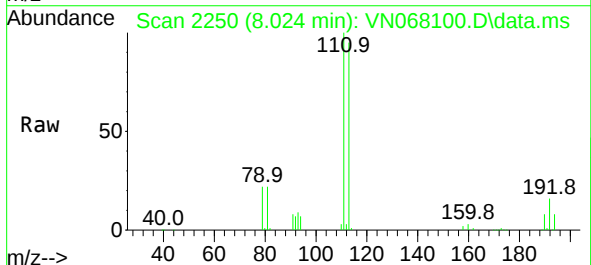
Instrument :  
MSVOA\_N  
ClientSampled :

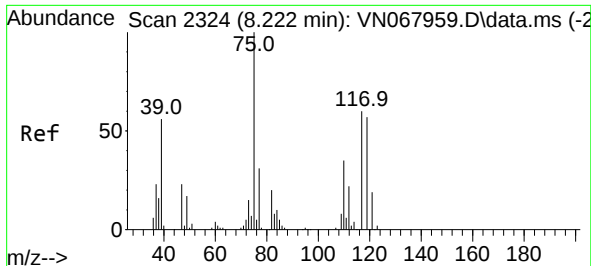
Tgt Ion:114 Resp: 577633  
Ion Ratio Lower Upper  
114 100  
63 20.9 0.0 49.0  
88 15.2 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 53.465 ug/l  
RT: 8.024 min Scan# 2250  
Delta R.T. 0.000 min  
Lab File: VN068100.D  
Acq: 12 Aug 2021 19:32

Tgt Ion:113 Resp: 179982  
Ion Ratio Lower Upper  
113 100  
111 103.7 83.8 125.8  
192 15.8 13.4 20.0

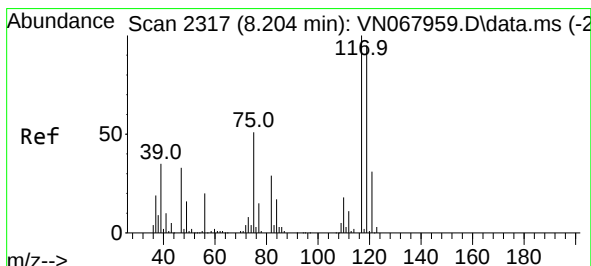
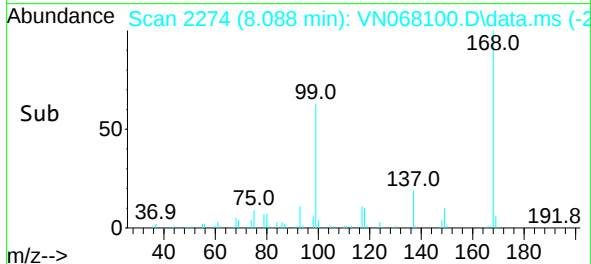
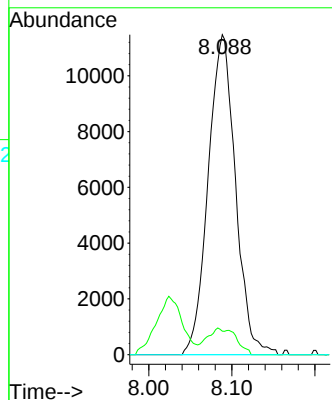
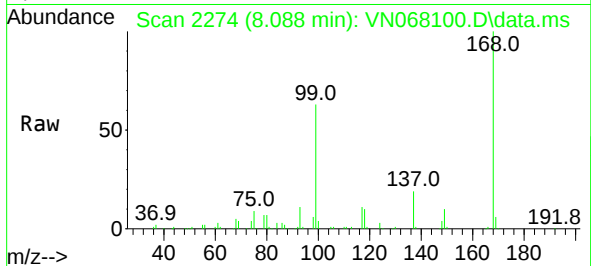




#36  
1,1-Dichloropropene  
Concen: 4.902 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. -0.134 min  
Lab File: VN068100.D  
Acq: 12 Aug 2021 19:32

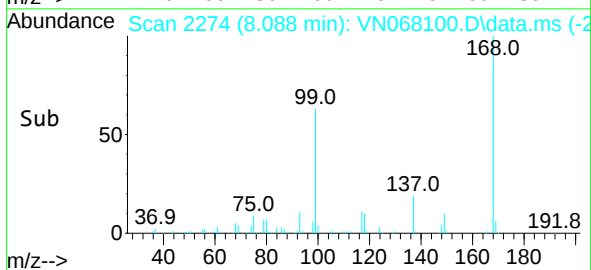
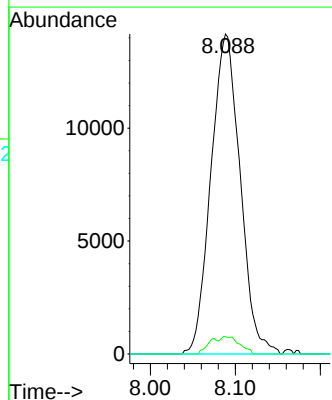
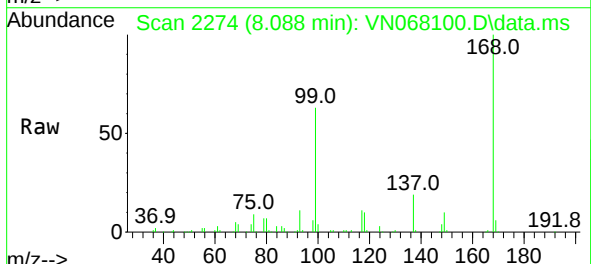
Instrument :  
MSVOA\_N  
ClientSampled :

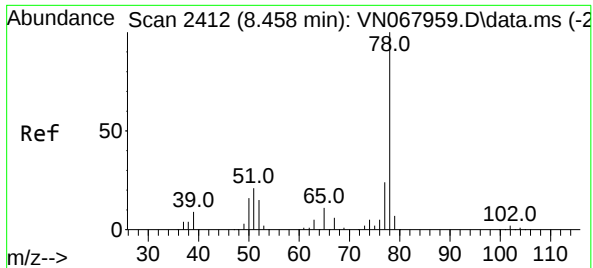
Tgt Ion: 75 Resp: 26190  
Ion Ratio Lower Upper  
75 100  
110 2.7 15.7 47.0#  
77 0.0 24.6 37.0#



#38  
Carbon Tetrachloride  
Concen: 6.443 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. -0.116 min  
Lab File: VN068100.D  
Acq: 12 Aug 2021 19:32

Tgt Ion:117 Resp: 33857  
Ion Ratio Lower Upper  
117 100  
119 5.4 75.4 113.2#  
121 0.0 23.5 35.3#

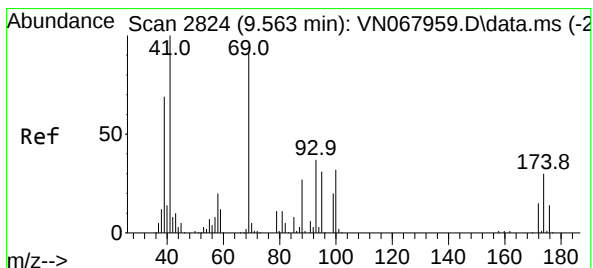
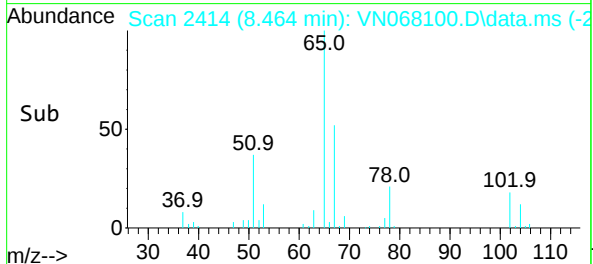
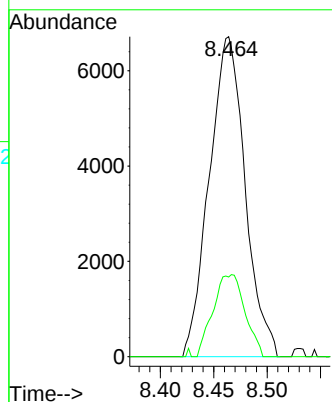
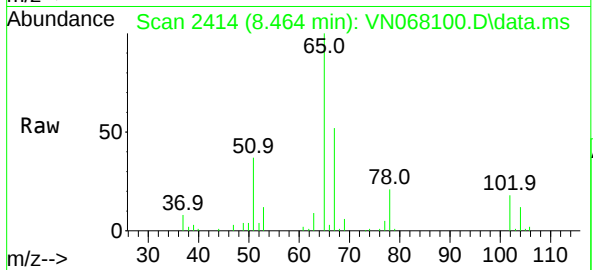




#40  
Benzene  
Concen: 0.991 ug/l  
RT: 8.464 min Scan# 2414  
Delta R.T. 0.006 min  
Lab File: VN068100.D  
Acq: 12 Aug 2021 19:32

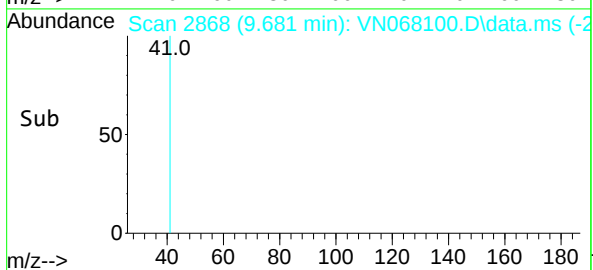
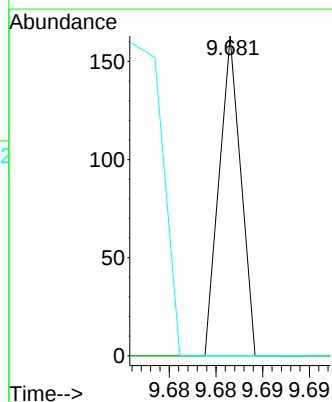
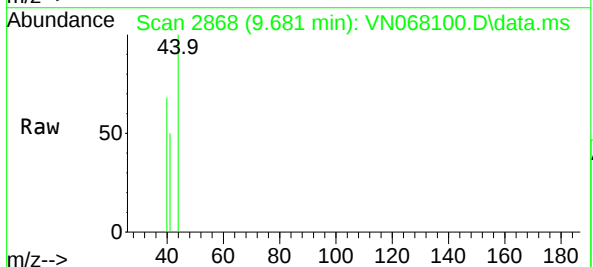
Instrument :  
MSVOA\_N  
ClientSampled :

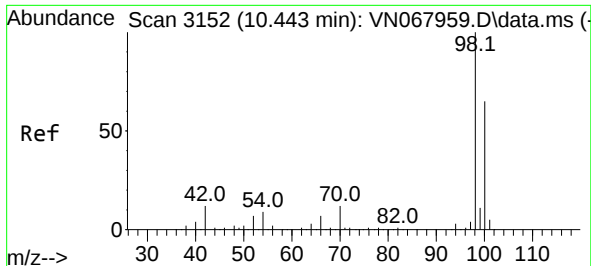
Tgt Ion: 78 Resp: 15679  
Ion Ratio Lower Upper  
78 100  
77 24.9 18.9 28.3



#48  
Methyl methacrylate  
Concen: 2.311 ug/l  
RT: 9.681 min Scan# 2868  
Delta R.T. 0.118 min  
Lab File: VN068100.D  
Acq: 12 Aug 2021 19:32

Tgt Ion: 41 Resp: 26  
Ion Ratio Lower Upper  
41 100  
69 0.0 64.6 96.8#  
39 192.3 53.3 79.9#

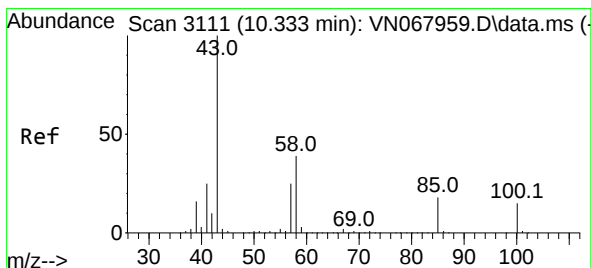
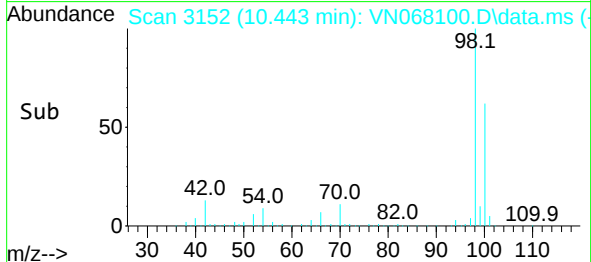
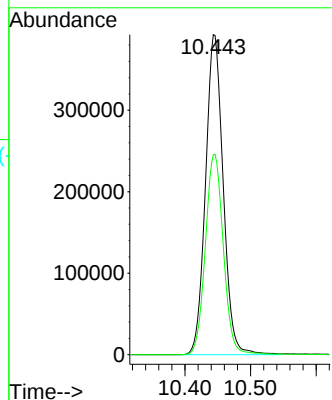
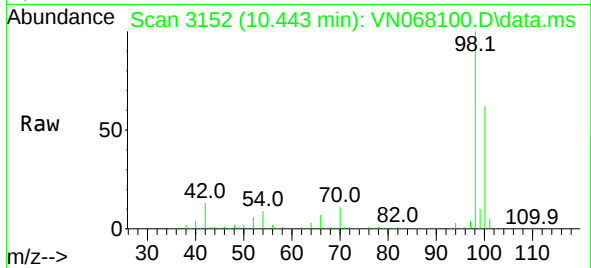




#50  
Toluene-d8  
Concen: 47.557 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. 0.000 min  
Lab File: VN068100.D  
Acq: 12 Aug 2021 19:32

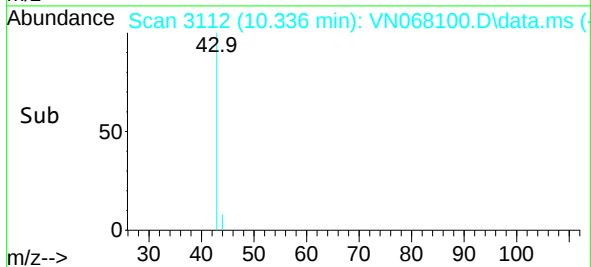
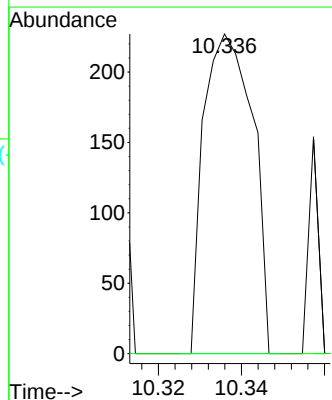
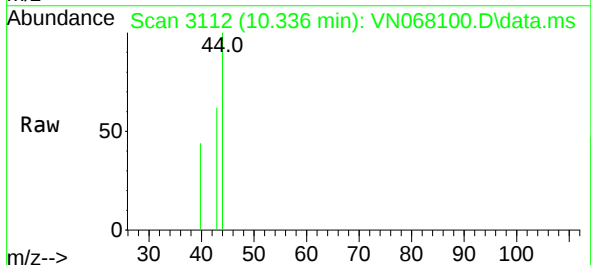
Instrument :  
MSVOA\_N  
ClientSampleId :

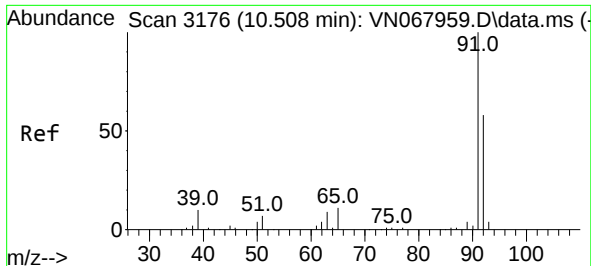
Tgt Ion: 98 Resp: 735659  
Ion Ratio Lower Upper  
98 100  
100 63.8 51.7 77.5



#51  
4-Methyl-2-Pentanone  
Concen: 12.596 ug/l  
RT: 10.336 min Scan# 3112  
Delta R.T. 0.003 min  
Lab File: VN068100.D  
Acq: 12 Aug 2021 19:32

Tgt Ion: 43 Resp: 186  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.6 43.0#

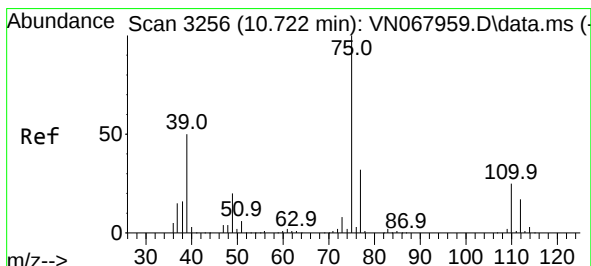
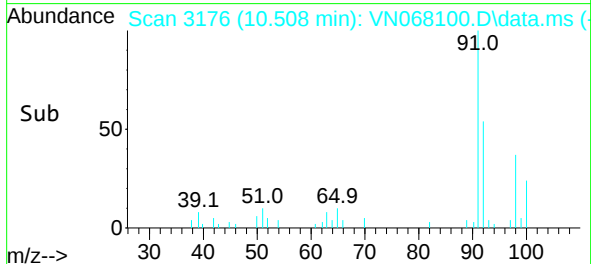
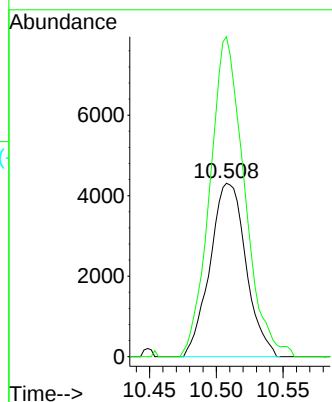
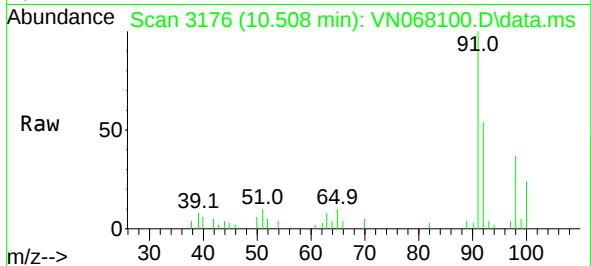




#52  
Toluene  
Concen: 0.785 ug/l  
RT: 10.508 min Scan# 3176  
Delta R.T. -0.000 min  
Lab File: VN068100.D  
Acq: 12 Aug 2021 19:32

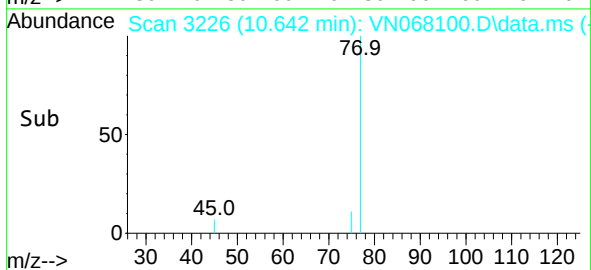
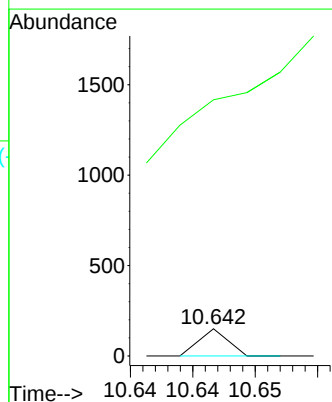
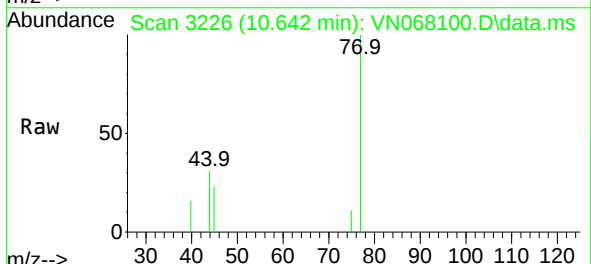
Instrument :  
MSVOA\_N  
ClientSampled :

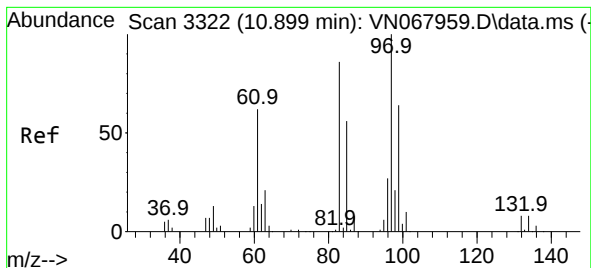
Tgt Ion: 92 Resp: 8065  
Ion Ratio Lower Upper  
92 100  
91 177.0 139.6 209.4



#53  
t-1,3-Dichloropropene  
Concen: 2.837 ug/l  
RT: 10.642 min Scan# 3226  
Delta R.T. -0.080 min  
Lab File: VN068100.D  
Acq: 12 Aug 2021 19:32

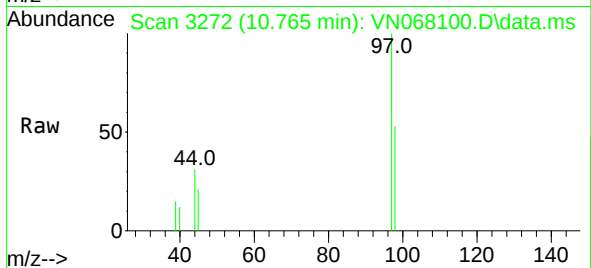
Tgt Ion: 75 Resp: 24  
Ion Ratio Lower Upper  
75 100  
77 93.4 25.1 37.7#



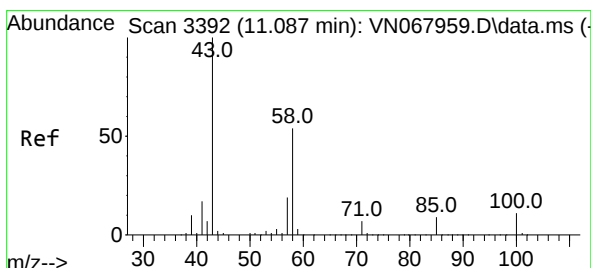
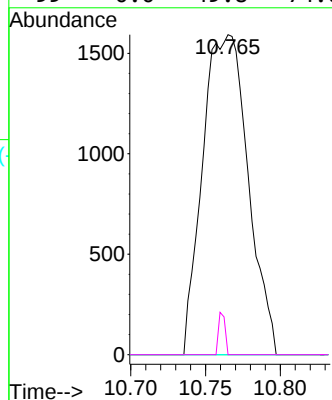
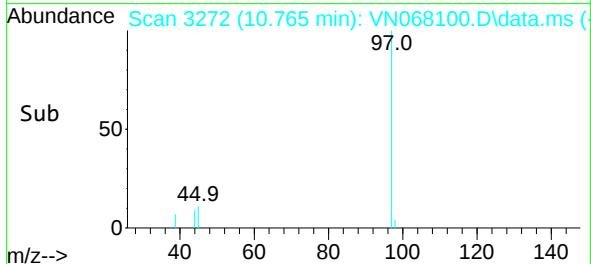


#55  
1,1,2-Trichloroethane  
Concen: 0.844 ug/l  
RT: 10.765 min Scan# 3272  
Delta R.T. -0.134 min  
Lab File: VN068100.D  
Acq: 12 Aug 2021 19:32

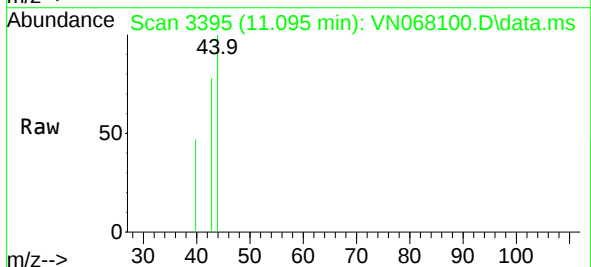
Instrument :  
MSVOA\_N  
ClientSampled :



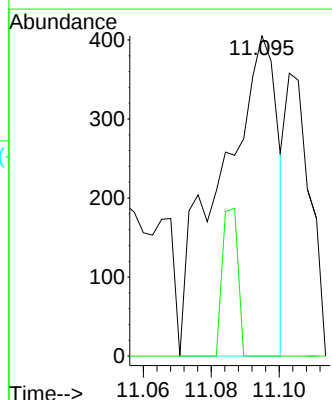
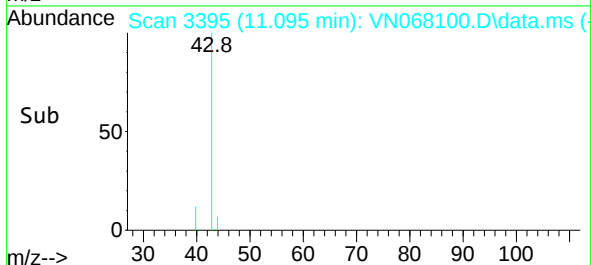
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 97      | 100   |       |        |
| 83      | 0.0   | 72.0  | 108.0# |
| 85      | 0.0   | 46.8  | 70.2#  |
| 99      | 0.0   | 49.8  | 74.6#  |

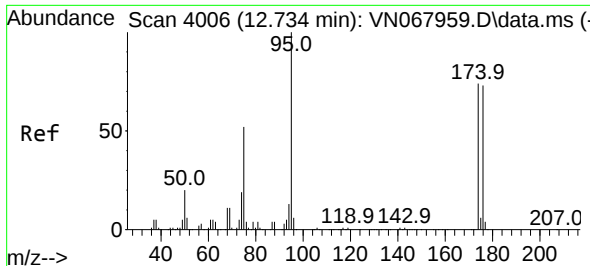


#59  
2-Hexanone  
Concen: 13.391 ug/l  
RT: 11.095 min Scan# 3395  
Delta R.T. 0.008 min  
Lab File: VN068100.D  
Acq: 12 Aug 2021 19:32



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 0.0   | 24.7  | 74.1# |

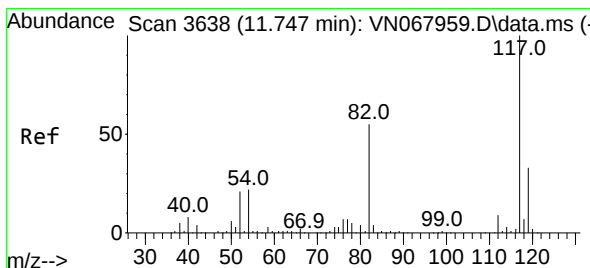
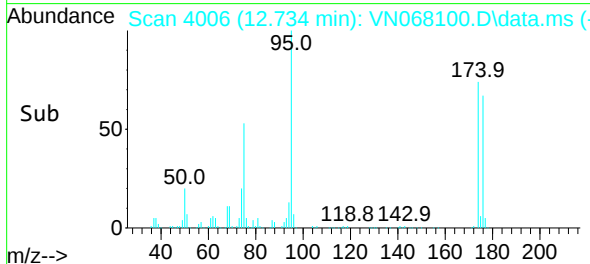
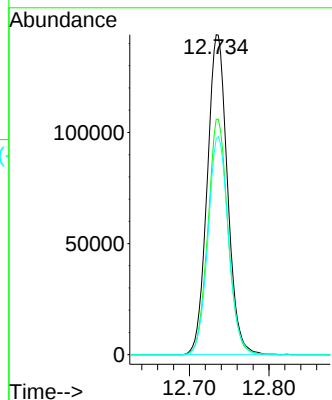
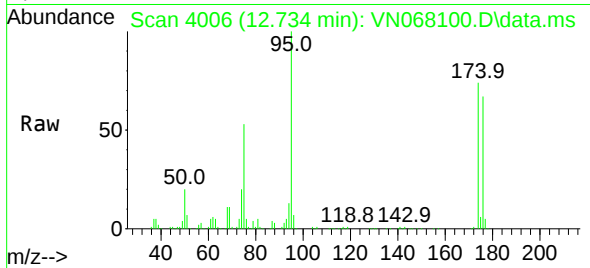




#62  
4-Bromofluorobenzene  
Concen: 45.227 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. -0.000 min  
Lab File: VN068100.D  
Acq: 12 Aug 2021 19:32

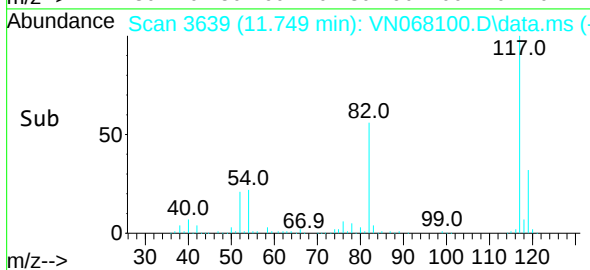
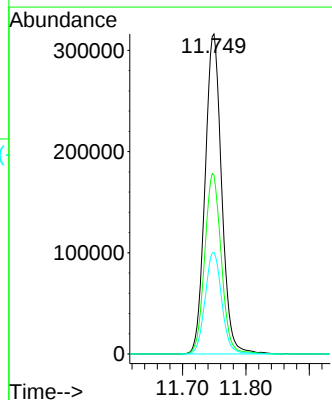
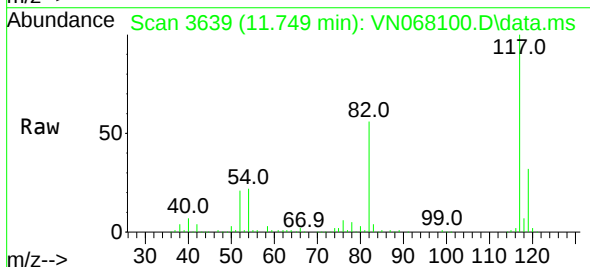
Instrument :  
MSVOA\_N  
ClientSampled :

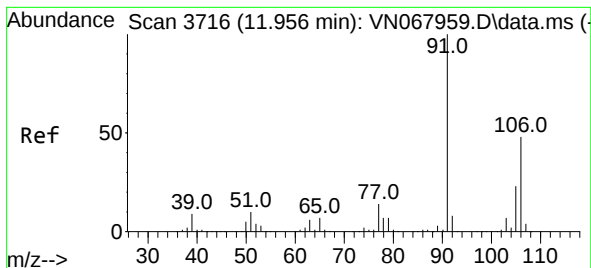
Tgt Ion: 95 Resp: 254188  
Ion Ratio Lower Upper  
95 100  
174 73.3 0.0 122.0  
176 69.1 0.0 117.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.749 min Scan# 3639  
Delta R.T. 0.002 min  
Lab File: VN068100.D  
Acq: 12 Aug 2021 19:32

Tgt Ion: 117 Resp: 575115  
Ion Ratio Lower Upper  
117 100  
82 55.9 53.1 79.7  
119 31.7 25.5 38.3

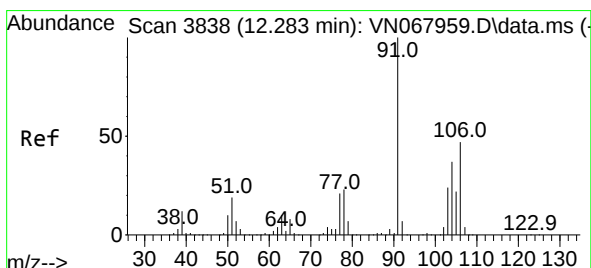
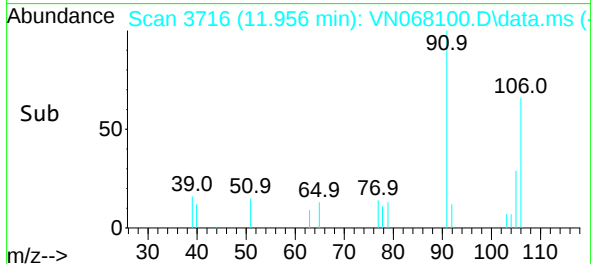
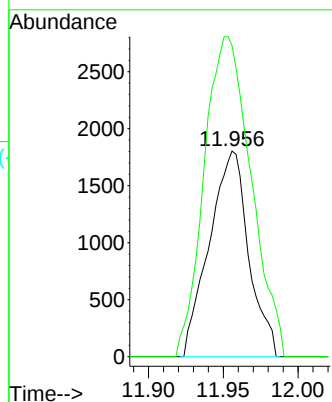
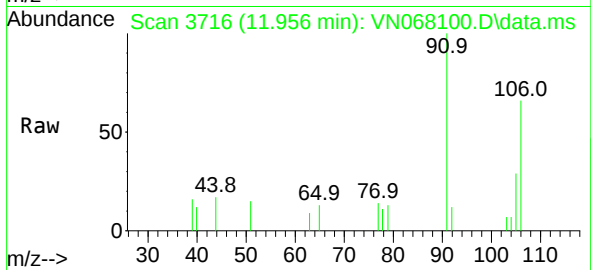




#68  
m/p-Xylenes  
Concen: 4.410 ug/l  
RT: 11.956 min Scan# 3716  
Delta R.T. -0.000 min  
Lab File: VN068100.D  
Acq: 12 Aug 2021 19:32

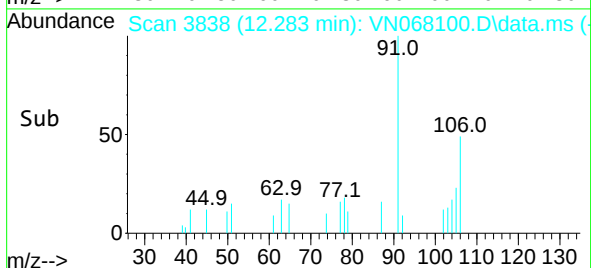
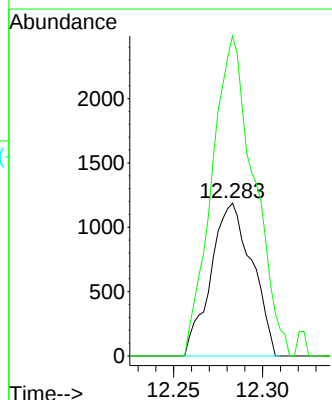
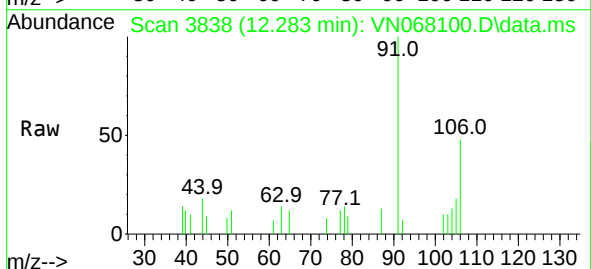
Instrument :  
MSVOA\_N  
ClientSampled :

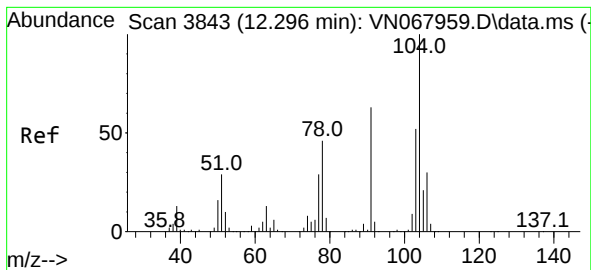
Tgt Ion:106 Resp: 3304  
Ion Ratio Lower Upper  
106 100  
91 185.2 180.6 270.8



#69  
o-Xylene  
Concen: 0.250 ug/l  
RT: 12.283 min Scan# 3838  
Delta R.T. 0.000 min  
Lab File: VN068100.D  
Acq: 12 Aug 2021 19:32

Tgt Ion:106 Resp: 1915  
Ion Ratio Lower Upper  
106 100  
91 214.7 118.3 354.9





#70

Styrene

Concen: 2.704 ug/l

RT: 12.304 min Scan# 3846

Delta R.T. 0.008 min

Lab File: VN068100.D

Acq: 12 Aug 2021 19:32

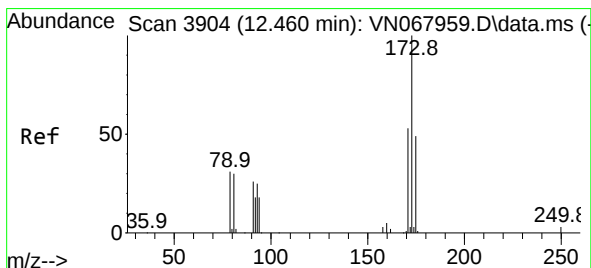
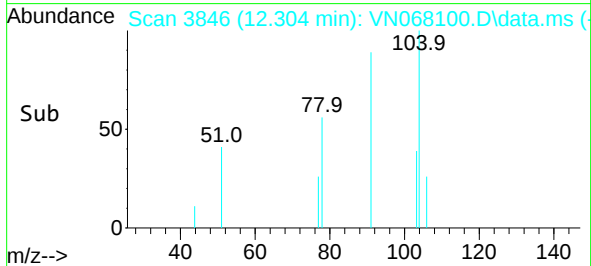
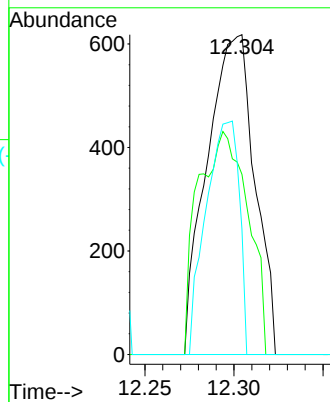
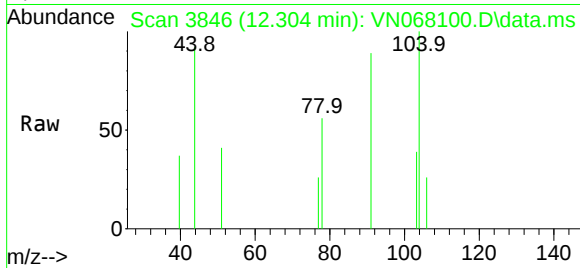
Tgt Ion:104 Resp: 1154

Ion Ratio Lower Upper

104 100

78 72.6 48.2 72.2#

103 50.6 44.5 66.7



#71

Bromoform

Concen: 4.065 ug/l

RT: 12.715 min Scan# 3999

Delta R.T. 0.255 min

Lab File: VN068100.D

Acq: 12 Aug 2021 19:32

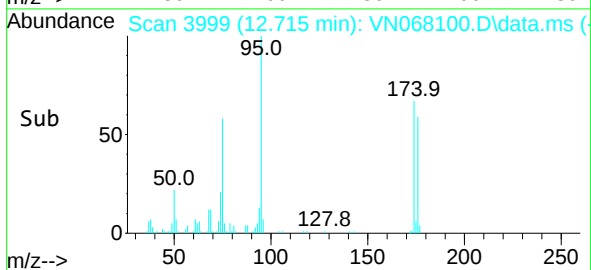
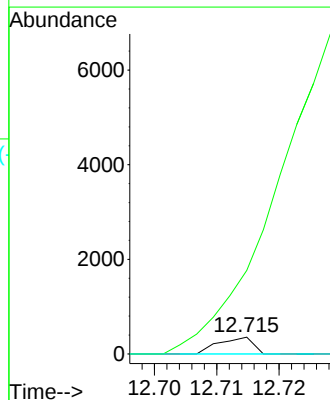
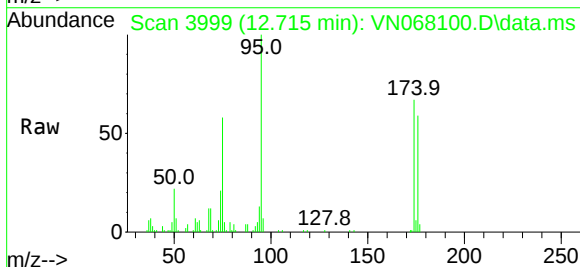
Tgt Ion:173 Resp: 136

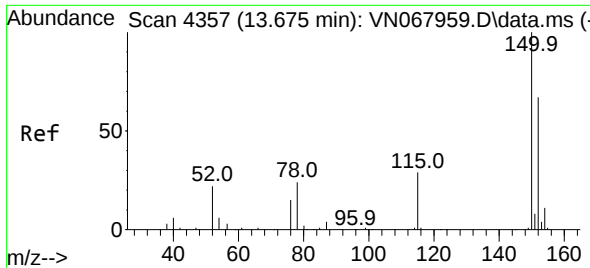
Ion Ratio Lower Upper

173 100

175 9833.8 23.9 71.8#

254 0.0 0.0 0.0

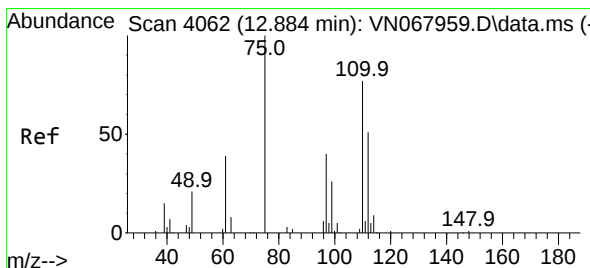
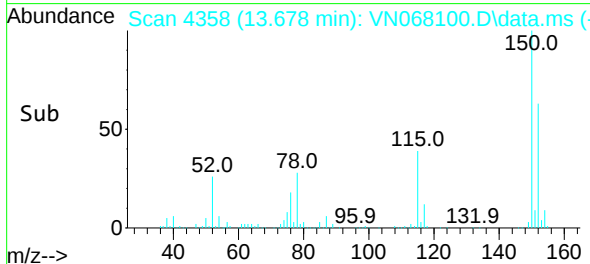
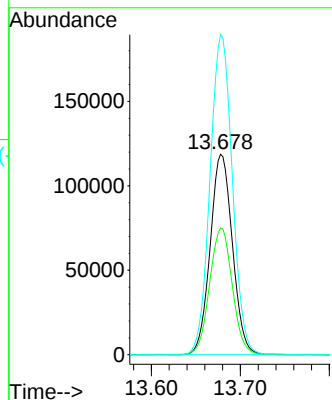
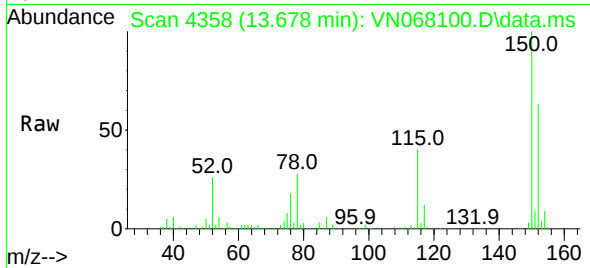




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.678 min Scan# 4358  
 Delta R.T. 0.003 min  
 Lab File: VN068100.D  
 Acq: 12 Aug 2021 19:32

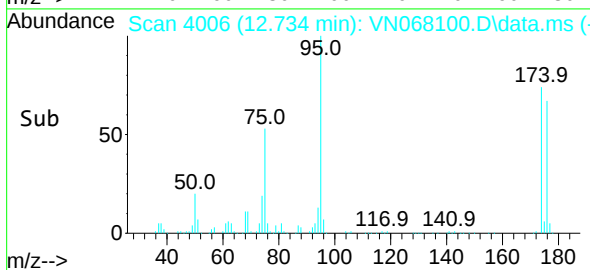
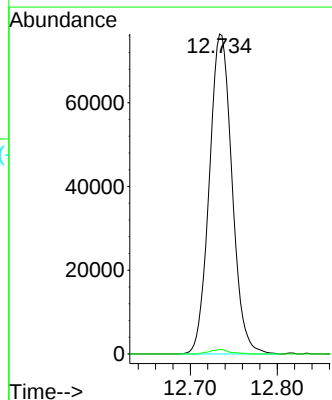
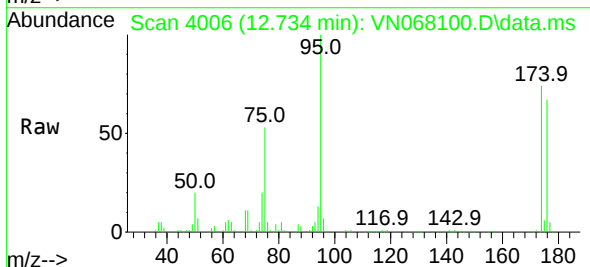
Instrument :  
 MSVOA\_N  
 ClientSampled :

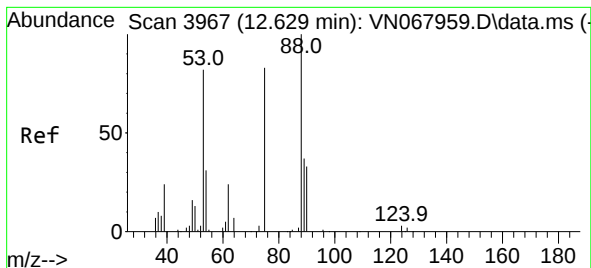
Tgt Ion:152 Resp: 206166  
 Ion Ratio Lower Upper  
 152 100  
 115 64.4 36.1 108.5  
 150 159.8 0.0 351.8



#76  
 1,2,3-Trichloropropane  
 Concen: 33.481 ug/l  
 RT: 12.734 min Scan# 4006  
 Delta R.T. -0.150 min  
 Lab File: VN068100.D  
 Acq: 12 Aug 2021 19:32

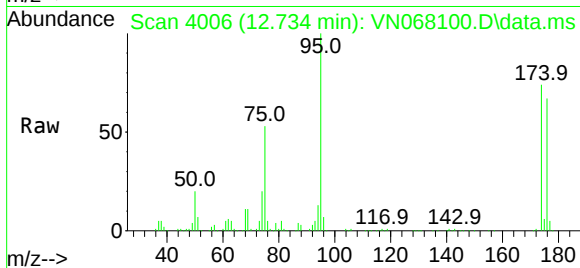
Tgt Ion: 75 Resp: 138624  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 0.0 0.0#



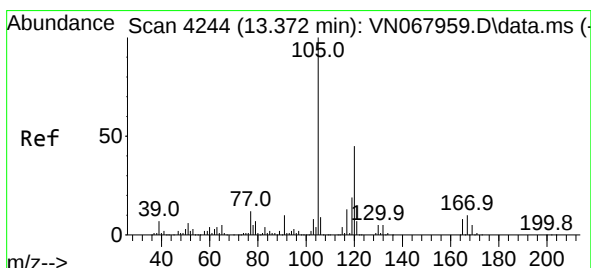
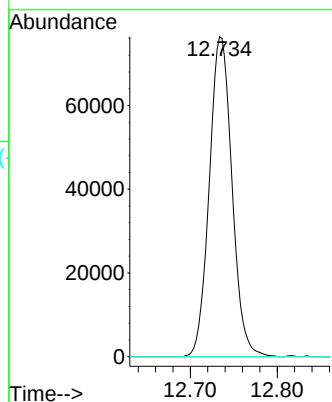
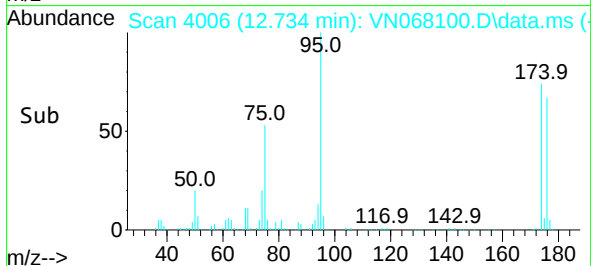


#81  
trans-1,4-Dichloro-2-butene  
Concen: 89.804 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. 0.105 min  
Lab File: VN068100.D  
Acq: 12 Aug 2021 19:32

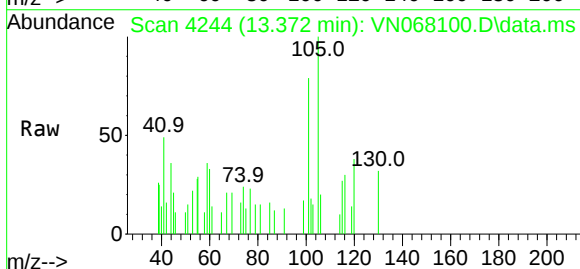
Instrument :  
MSVOA\_N  
ClientSampled :



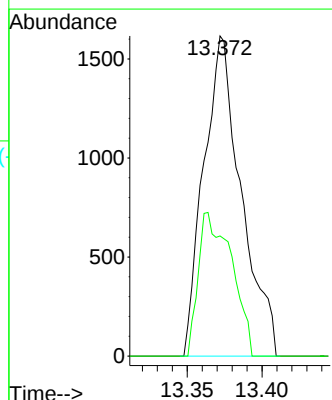
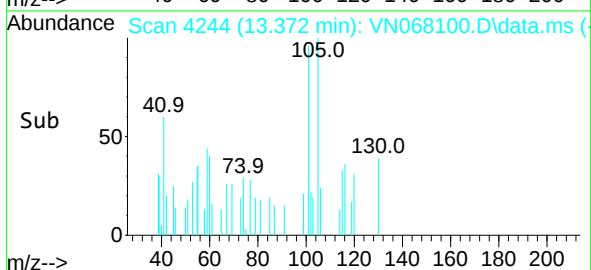
Tgt Ion: 75 Resp: 138624  
Ion Ratio Lower Upper  
75 100  
53 0.0 87.6 131.4#  
89 0.0 37.8 56.8#

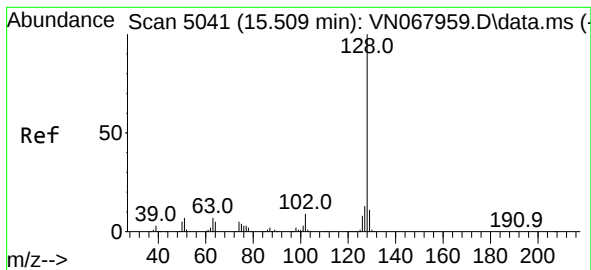


#84  
1,2,4-Trimethylbenzene  
Concen: 0.213 ug/l  
RT: 13.372 min Scan# 4244  
Delta R.T. -0.000 min  
Lab File: VN068100.D  
Acq: 12 Aug 2021 19:32



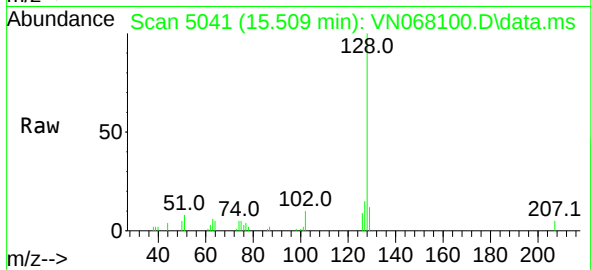
Tgt Ion: 105 Resp: 2817  
Ion Ratio Lower Upper  
105 100  
120 39.9 20.6 61.8





#95  
Naphthalene  
Concen: 6.477 ug/l  
RT: 15.509 min Scan# 5041  
Delta R.T. 0.000 min  
Lab File: VN068100.D  
Acq: 12 Aug 2021 19:32

Instrument :  
MSVOA\_N  
ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 30772 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 13.8  | 10.6  | 15.8  |
| 129      | 10.1  | 8.6   | 12.8  |

