

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080321\  
 Data File : VN067982.D  
 Acq On : 3 Aug 2021 15:22  
 Operator : JC/MD  
 Sample : M3269-03 50X  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Aug 04 03:39:14 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

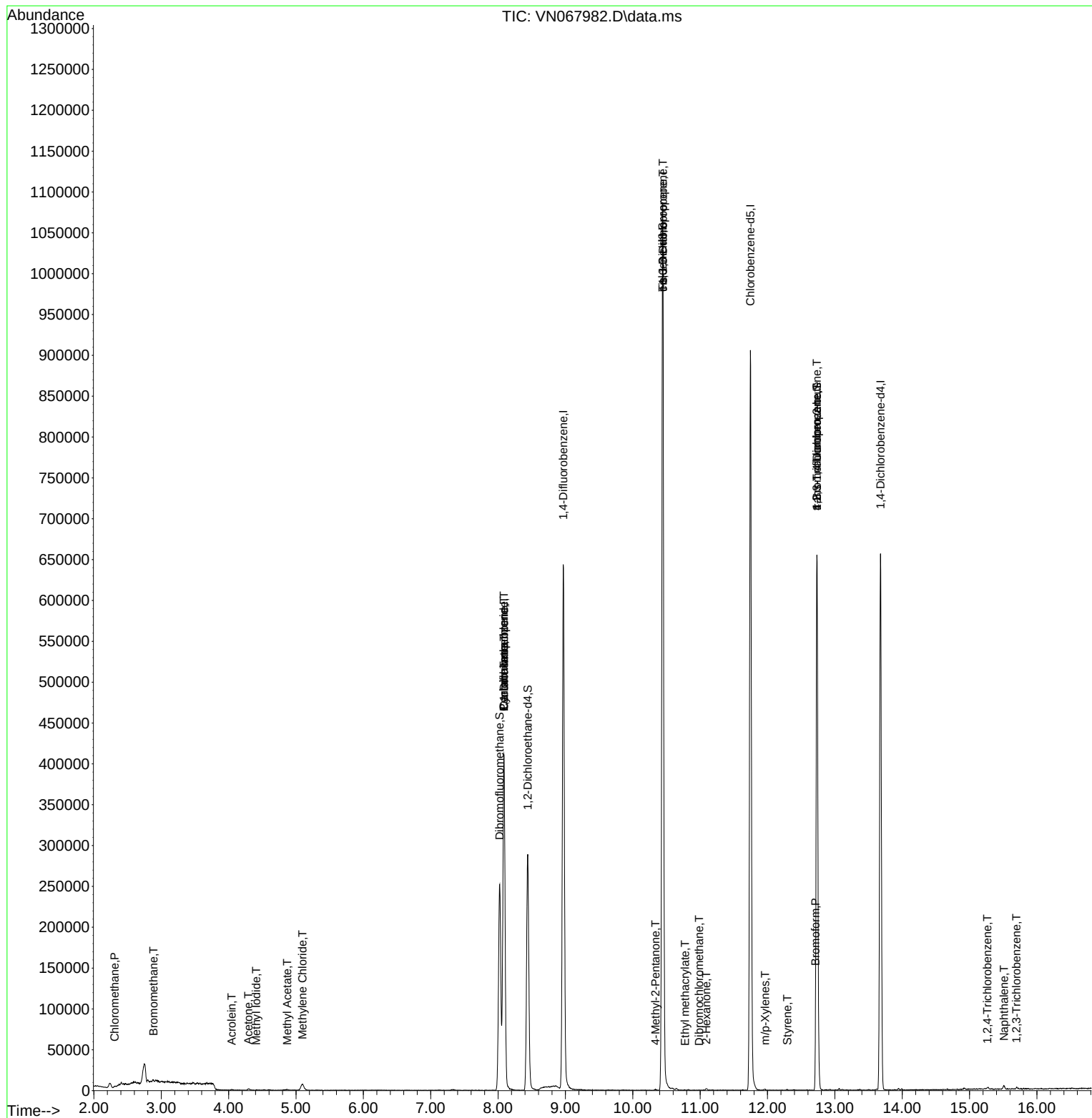
| Compound                      | R.T.           | QIon | Response            | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|---------------------|---------|-------|----------|
| -----                         |                |      |                     |         |       |          |
| Internal Standards            |                |      |                     |         |       |          |
| 1) Pentafluorobenzene         | 8.088          | 168  | 298662              | 50.000  | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 8.968          | 114  | 564996              | 50.000  | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 11.747         | 117  | 531234              | 50.000  | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.678         | 152  | 172792              | 50.000  | ug/l  | 0.00     |
| System Monitoring Compounds   |                |      |                     |         |       |          |
| 33) 1,2-Dichloroethane-d4     | 8.440          | 65   | 247784              | 58.604  | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = 117.200% |         |       |          |
| 35) Dibromofluoromethane      | 8.024          | 113  | 186187              | 56.545  | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = 113.100% |         |       |          |
| 50) Toluene-d8                | 10.443         | 98   | 760683              | 50.053  | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = 100.100% |         |       |          |
| 62) 4-Bromofluorobenzene      | 12.734         | 95   | 237321              | 43.397  | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = 86.800%  |         |       |          |
| Target Compounds              |                |      |                     |         |       |          |
|                               |                |      |                     |         |       | Qvalue   |
| 3) Chloromethane              | 2.306          | 50   | 1034                | 0.272   | ug/l  | # 83     |
| 5) Bromomethane               | 2.883          | 94   | 2060                | 0.390   | ug/l  | # 72     |
| 10) Methyl Iodide             | 4.409          | 142  | 214                 | 3.171   | ug/l  | # 33     |
| 13) Acrolein                  | 4.044          | 56   | 417                 | 1.085   | ug/l  | # 77     |
| 16) Acetone                   | 4.293          | 43   | 1058                | 0.686   | ug/l  | # 38     |
| 18) Methyl Acetate            | 4.870          | 43   | 1853                | 0.398   | ug/l  | # 64     |
| 20) Methylene Chloride        | 5.095          | 84   | 3420                | 0.680   | ug/l  | # 75     |
| 31) Cyclohexane               | 8.088          | 56   | 7402                | 1.187   | ug/l  | # 6      |
| 36) 1,1-Dichloropropene       | 8.088          | 75   | 26050               | 4.985   | ug/l  | # 52     |
| 38) Carbon Tetrachloride      | 8.086          | 117  | 32660               | 6.355   | ug/l  | # 16     |
| 51) 4-Methyl-2-Pentanone      | 10.336         | 43   | 1102                | 12.742  | ug/l  | # 39     |
| 53) t-1,3-Dichloropropene     | 10.446         | 75   | 74                  | 2.844   | ug/l  | # 1      |
| 54) cis-1,3-Dichloropropene   | 10.446         | 75   | 74                  | 2.365   | ug/l  | # 1      |
| 56) Ethyl methacrylate        | 10.776         | 69   | 24                  | 3.102   | ug/l  | # 1      |
| 59) 2-Hexanone                | 11.092         | 43   | 1690                | 13.664  | ug/l  | 92       |
| 60) Dibromochloromethane      | 10.985         | 129  | 54                  | 3.313   | ug/l  | # 11     |
| 68) m/p-Xylenes               | 11.967         | 106  | 408                 | 4.109   | ug/l  | # 31     |
| 70) Styrene                   | 12.294         | 104  | 265                 | 2.650   | ug/l  | # 50     |
| 71) Bromoform                 | 12.712         | 173  | 48                  | 4.044   | ug/l  | # 29     |
| 76) 1,2,3-Trichloropropane    | 12.734         | 75   | 130730              | 37.672  | ug/l  | # 100    |
| 81) trans-1,4-Dichloro-2-b... | 12.734         | 75   | 130730              | 100.594 | ug/l  | # 6      |
| 93) 1,2,4-Trichlorobenzene    | 15.263         | 180  | 752                 | 2.751   | ug/l  | # 59     |
| 95) Naphthalene               | 15.509         | 128  | 4230                | 3.671   | ug/l  | # 76     |
| 96) 1,2,3-Trichlorobenzene    | 15.697         | 180  | 940                 | 2.744   | ug/l  | # 52     |
| -----                         |                |      |                     |         |       |          |

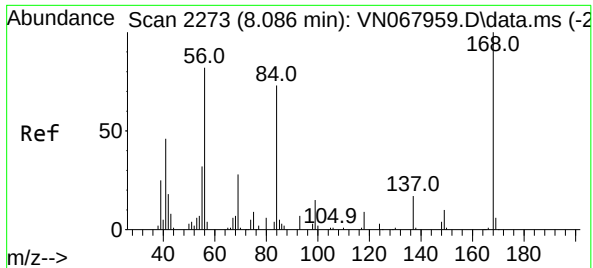
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080321\  
Data File : VN067982.D  
Acq On : 3 Aug 2021 15:22  
Operator : JC/MD  
Sample : M3269-03 50X  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Aug 04 03:39:14 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

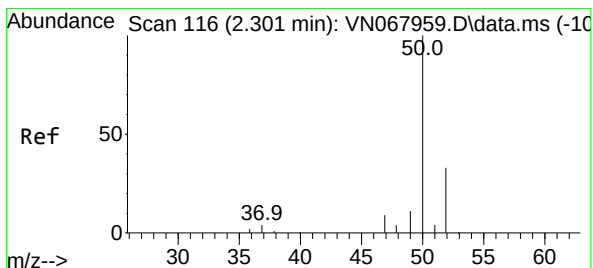
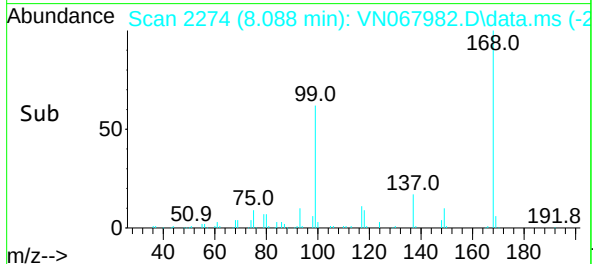
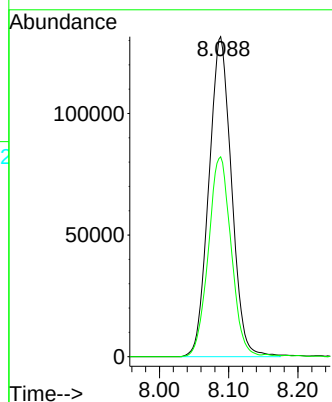
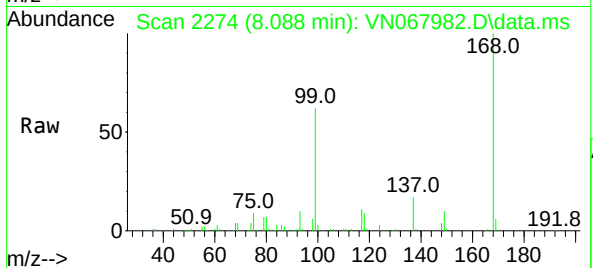




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. 0.002 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

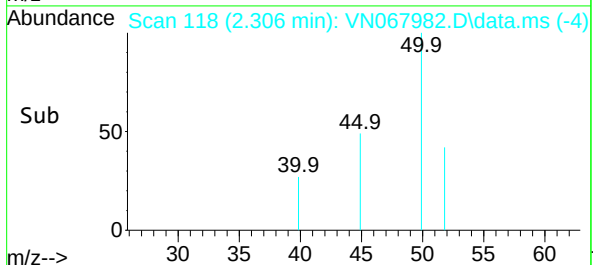
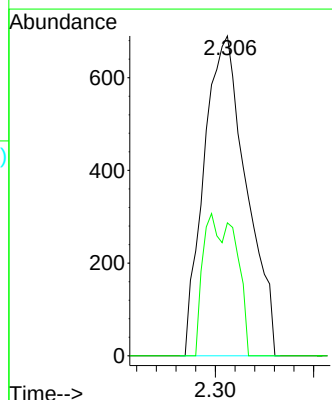
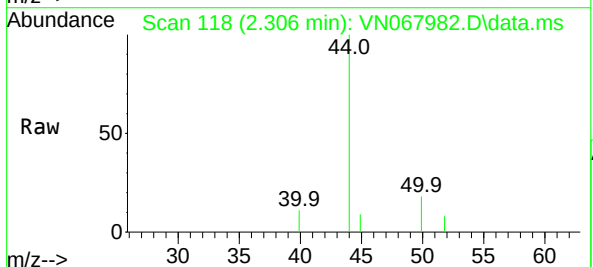
Instrument :  
MSVOA\_N  
ClientSampleId :

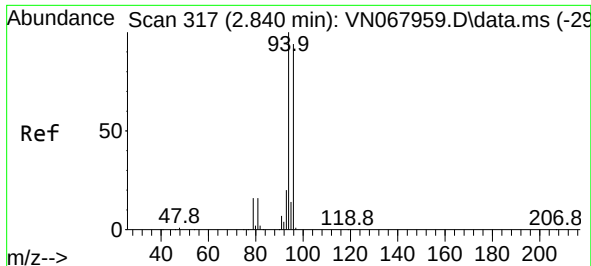
Tgt Ion:168 Resp: 298662  
Ion Ratio Lower Upper  
168 100  
99 62.5 62.9 94.3#



#3  
Chloromethane  
Concen: 0.272 ug/l  
RT: 2.306 min Scan# 118  
Delta R.T. 0.005 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

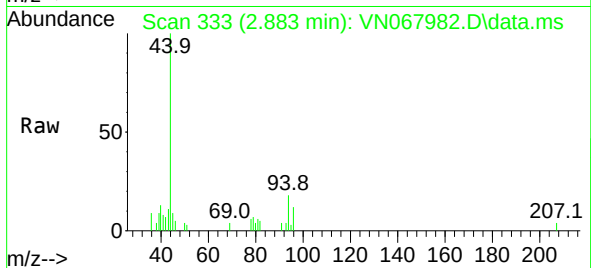
Tgt Ion: 50 Resp: 1034  
Ion Ratio Lower Upper  
50 100  
52 41.6 25.6 38.4#



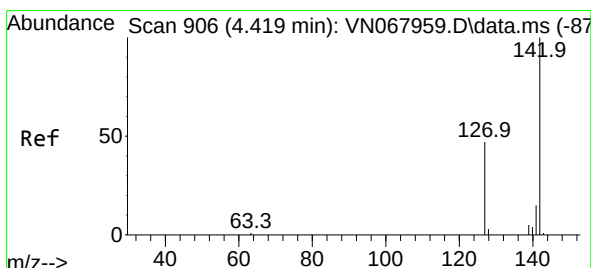
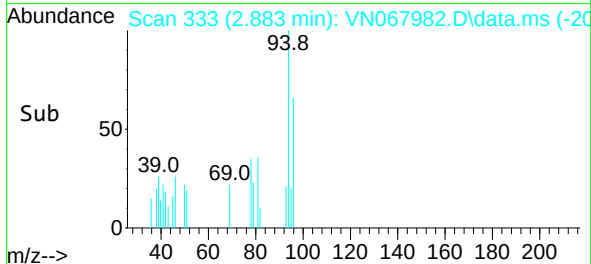
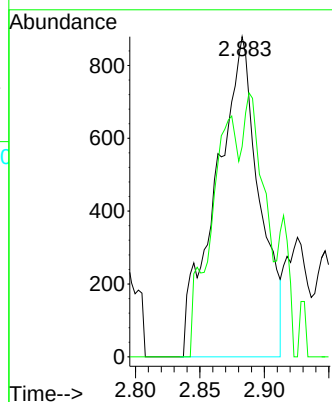


#5  
Bromomethane  
Concen: 0.390 ug/l  
RT: 2.883 min Scan# 333  
Delta R.T. 0.043 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

Instrument :  
MSVOA\_N  
ClientSampled :

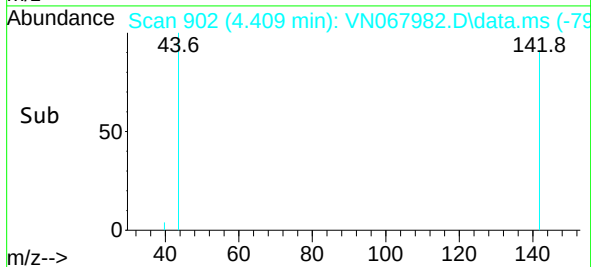
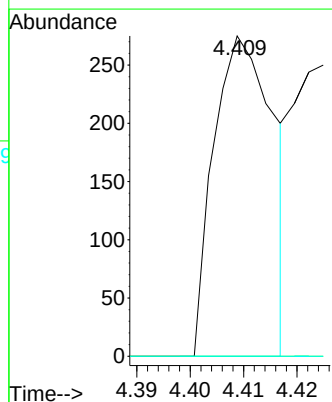
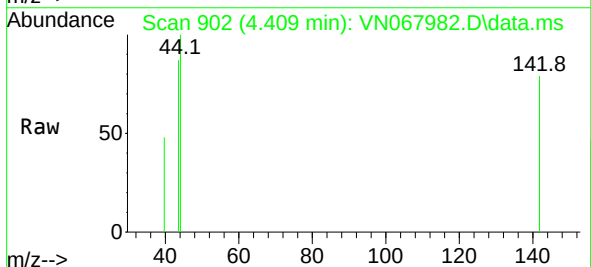


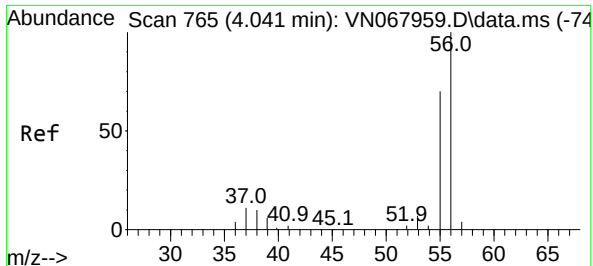
Tgt Ion: 94 Resp: 2060  
Ion Ratio Lower Upper  
94 100  
96 65.6 73.7 110.5#



#10  
Methyl Iodide  
Concen: 3.171 ug/l  
RT: 4.409 min Scan# 902  
Delta R.T. -0.010 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

Tgt Ion: 142 Resp: 214  
Ion Ratio Lower Upper  
142 100  
127 0.0 43.1 64.7#  
141 0.0 11.4 17.0#

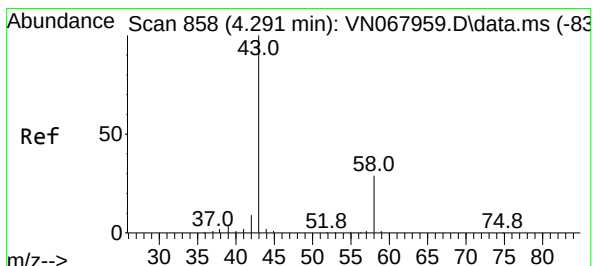
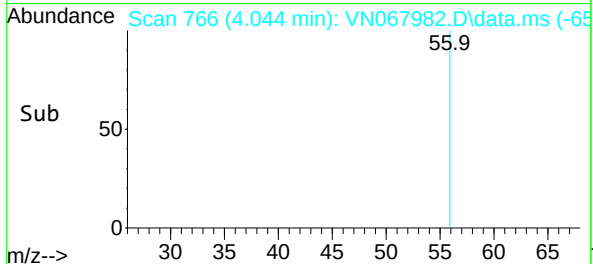
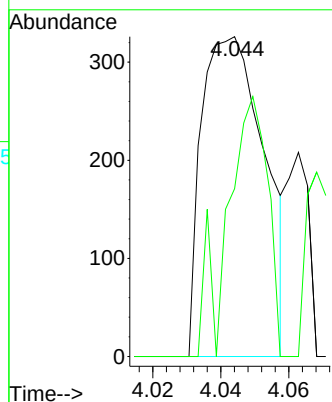
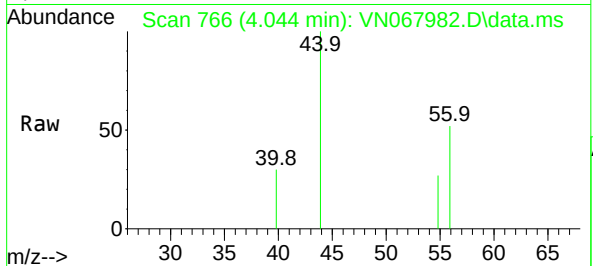




#13  
Acrolein  
Concen: 1.085 ug/l  
RT: 4.044 min Scan# 766  
Delta R.T. 0.003 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

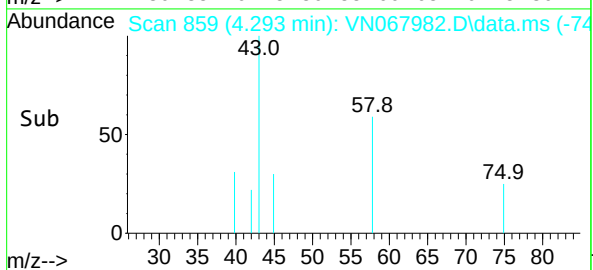
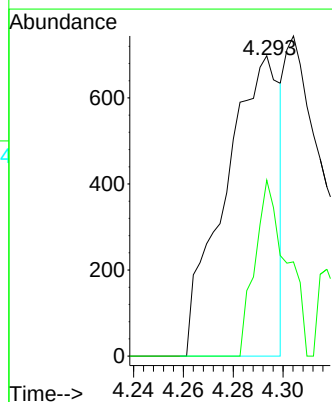
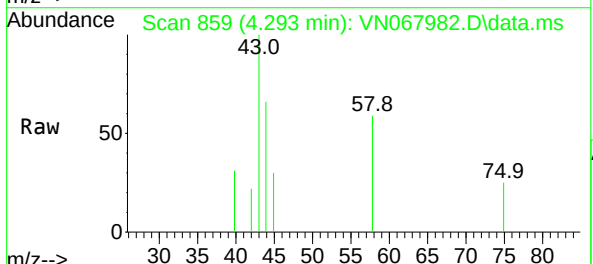
Instrument :  
MSVOA\_N  
ClientSampled :

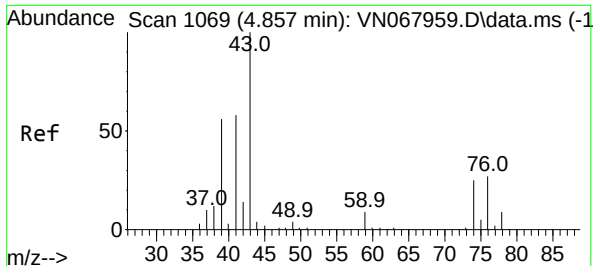
Tgt Ion: 56 Resp: 417  
Ion Ratio Lower Upper  
56 100  
55 52.3 57.4 86.0#



#16  
Acetone  
Concen: 0.686 ug/l  
RT: 4.293 min Scan# 859  
Delta R.T. 0.002 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

Tgt Ion: 43 Resp: 1058  
Ion Ratio Lower Upper  
43 100  
58 58.6 21.2 31.8#

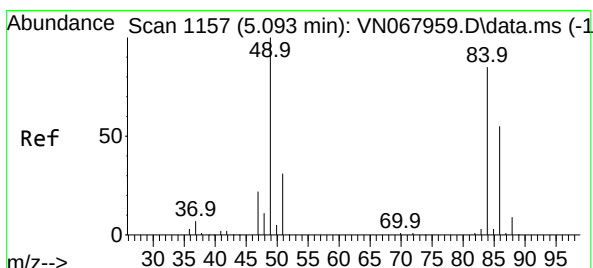
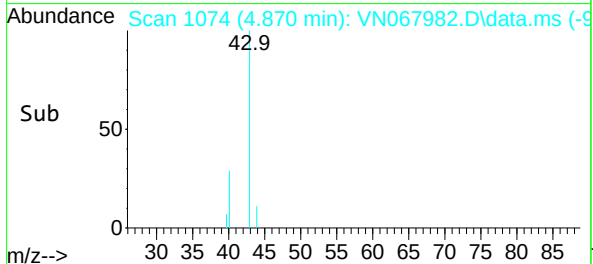
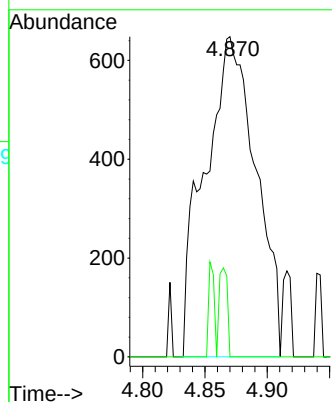
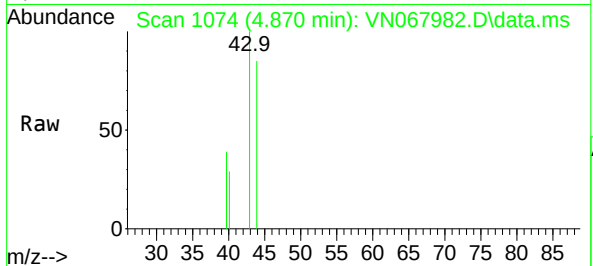




#18  
Methyl Acetate  
Concen: 0.398 ug/l  
RT: 4.870 min Scan# 1074  
Delta R.T. 0.013 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

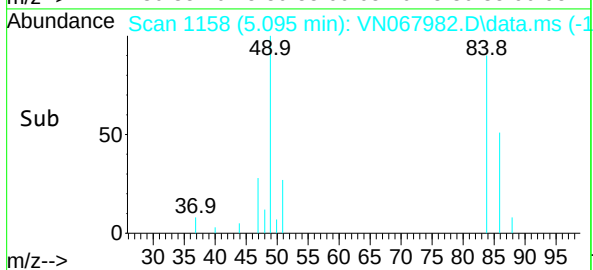
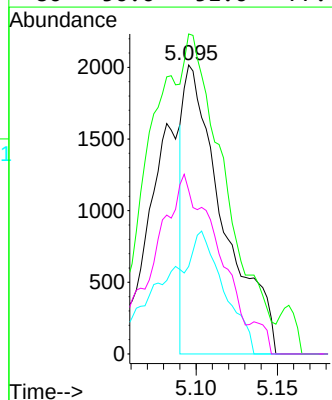
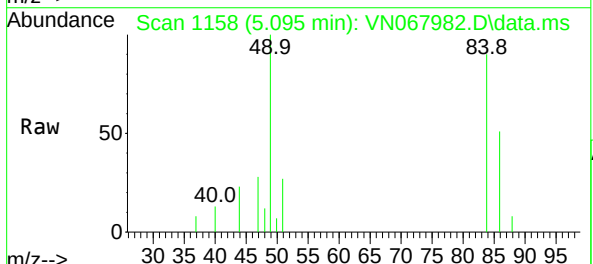
Instrument :  
MSVOA\_N  
ClientSampled :

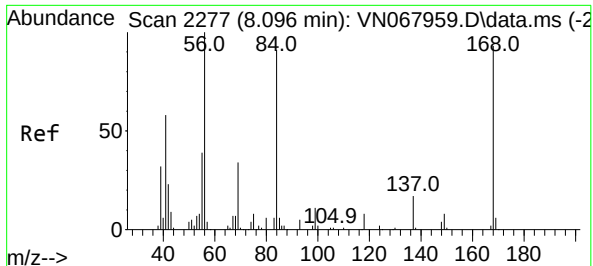
Tgt Ion: 43 Resp: 1853  
Ion Ratio Lower Upper  
43 100  
74 4.4 17.4 26.0#



#20  
Methylene Chloride  
Concen: 0.680 ug/l  
RT: 5.095 min Scan# 1158  
Delta R.T. 0.002 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

Tgt Ion: 84 Resp: 3420  
Ion Ratio Lower Upper  
84 100  
49 97.5 110.9 166.3#  
51 30.3 32.6 49.0#  
86 56.6 51.6 77.4

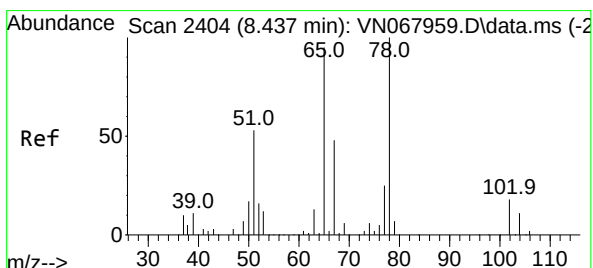
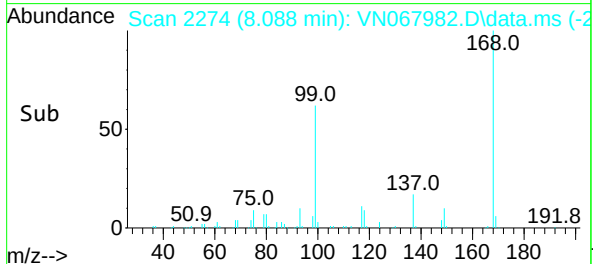
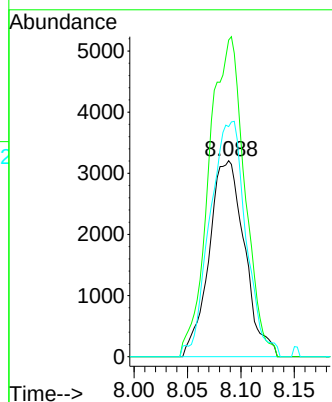
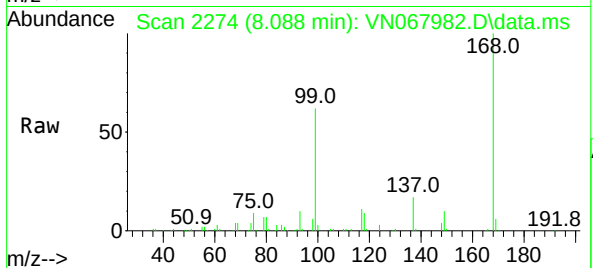




#31  
Cyclohexane  
Concen: 1.187 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. -0.008 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

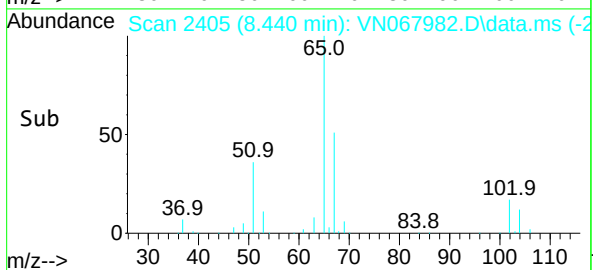
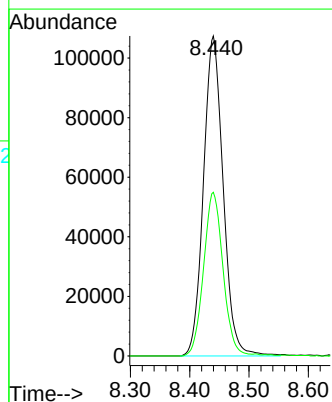
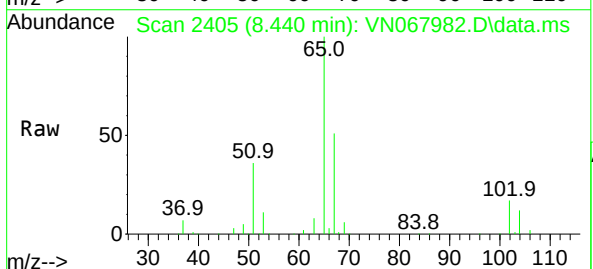
Instrument :  
MSVOA\_N  
ClientSampleId :

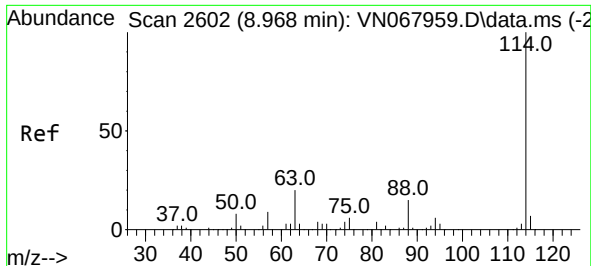
Tgt Ion: 56 Resp: 7402  
Ion Ratio Lower Upper  
56 100  
69 161.5 27.3 40.9#  
84 117.4 64.9 97.3#



#33  
1,2-Dichloroethane-d4  
Concen: 58.604 ug/l  
RT: 8.440 min Scan# 2405  
Delta R.T. 0.003 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

Tgt Ion: 65 Resp: 247784  
Ion Ratio Lower Upper  
65 100  
67 50.3 0.0 98.6

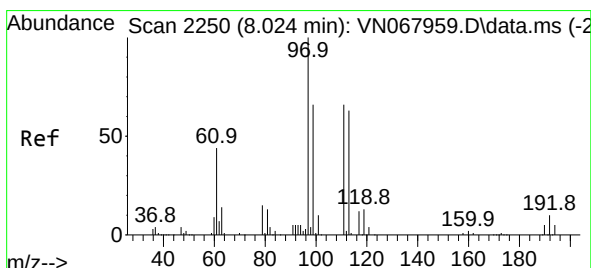
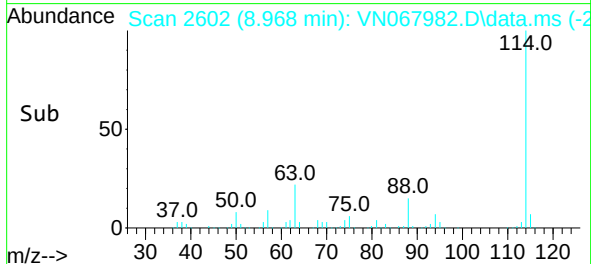
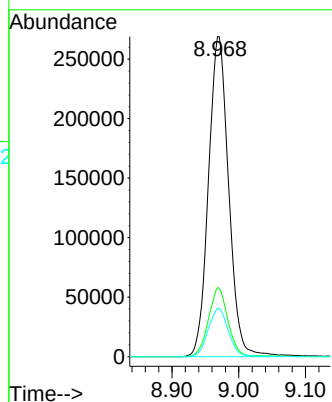
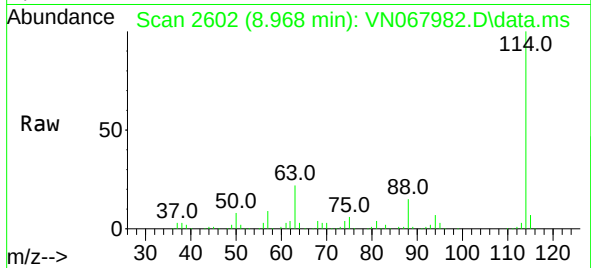




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.968 min Scan# 2602  
Delta R.T. 0.000 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

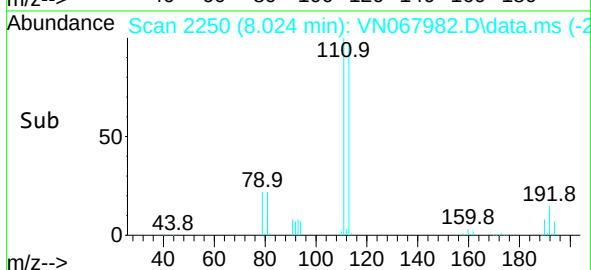
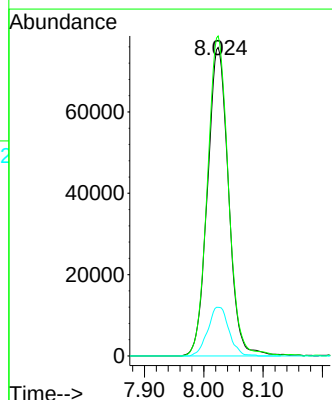
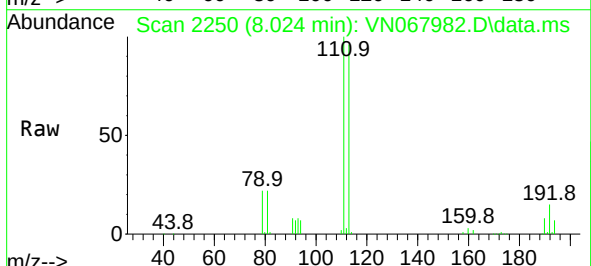
Instrument :  
MSVOA\_N  
ClientSampled :

Tgt Ion:114 Resp: 564996  
Ion Ratio Lower Upper  
114 100  
63 21.6 0.0 49.0  
88 15.1 0.0 36.6

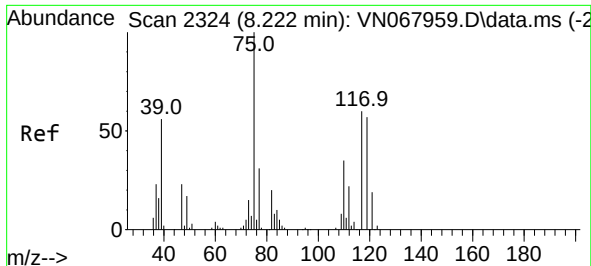


#35  
Dibromofluoromethane  
Concen: 56.545 ug/l  
RT: 8.024 min Scan# 2250  
Delta R.T. 0.000 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

Tgt Ion:113 Resp: 186187  
Ion Ratio Lower Upper  
113 100  
111 103.5 83.8 125.8  
192 15.9 13.4 20.0



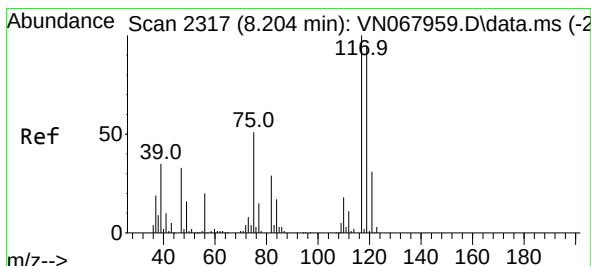
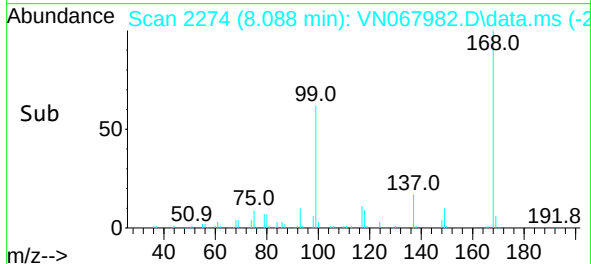
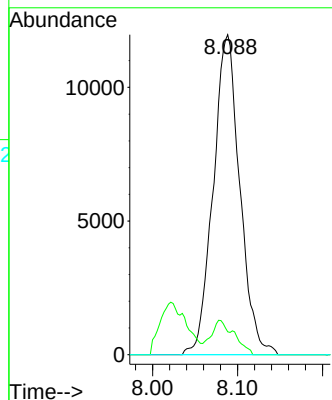
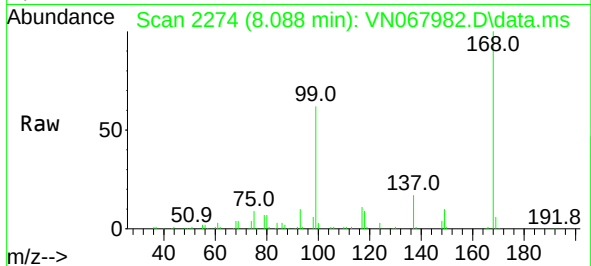




#36  
1,1-Dichloropropene  
Concen: 4.985 ug/l  
RT: 8.088 min Scan# 2274  
Delta R.T. -0.134 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

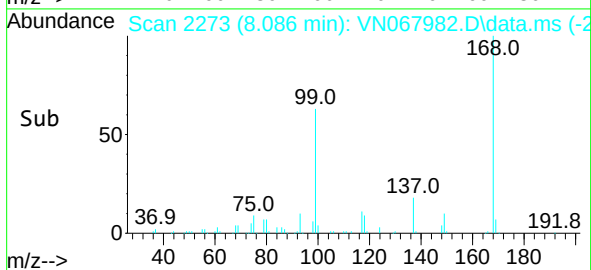
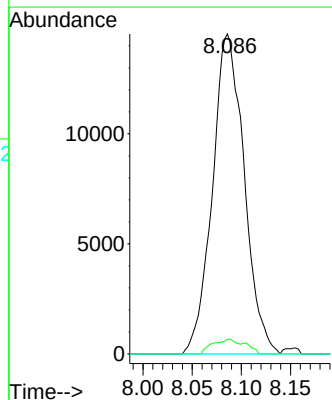
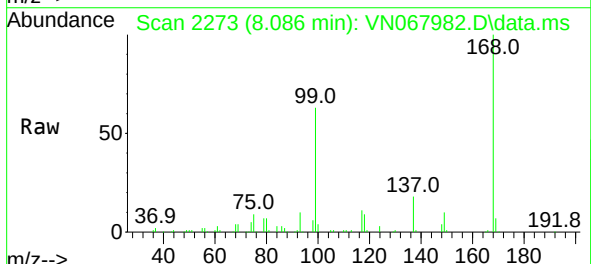
Instrument :  
MSVOA\_N  
ClientSampled :

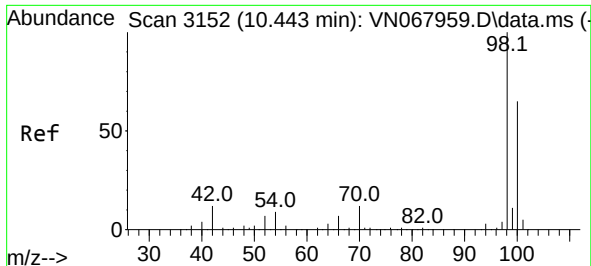
Tgt Ion: 75 Resp: 26050  
Ion Ratio Lower Upper  
75 100  
110 9.4 15.7 47.0#  
77 0.0 24.6 37.0#



#38  
Carbon Tetrachloride  
Concen: 6.355 ug/l  
RT: 8.086 min Scan# 2273  
Delta R.T. -0.118 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

Tgt Ion: 117 Resp: 32660  
Ion Ratio Lower Upper  
117 100  
119 4.5 75.4 113.2#  
121 0.0 23.5 35.3#

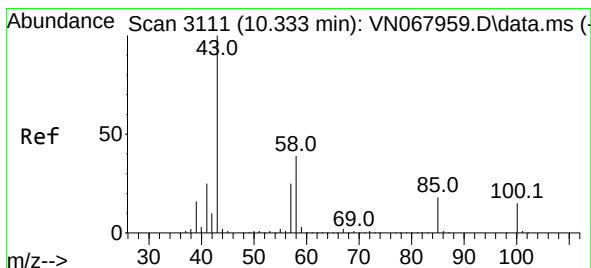
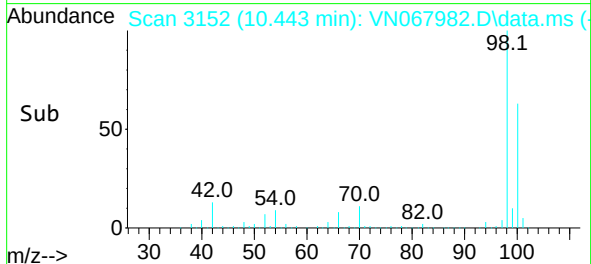
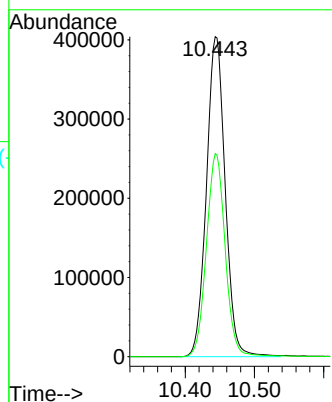
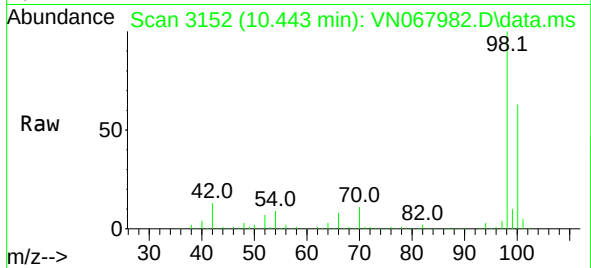




#50  
Toluene-d8  
Concen: 50.053 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. 0.000 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

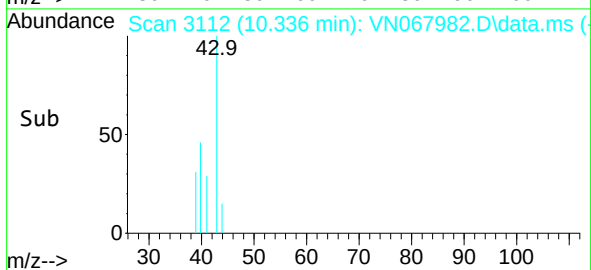
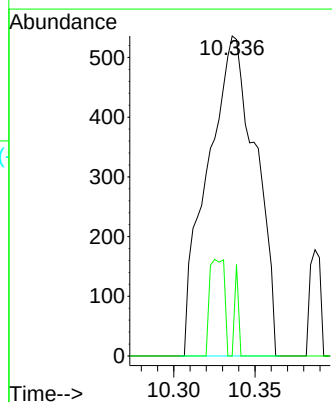
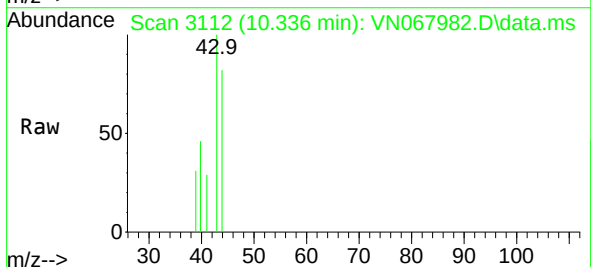
Instrument :  
MSVOA\_N  
ClientSampled :

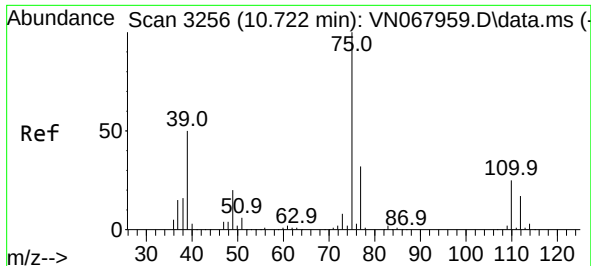
Tgt Ion: 98 Resp: 760683  
Ion Ratio Lower Upper  
98 100  
100 63.8 51.7 77.5



#51  
4-Methyl-2-Pentanone  
Concen: 12.742 ug/l  
RT: 10.336 min Scan# 3112  
Delta R.T. 0.003 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

Tgt Ion: 43 Resp: 1102  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.6 43.0#

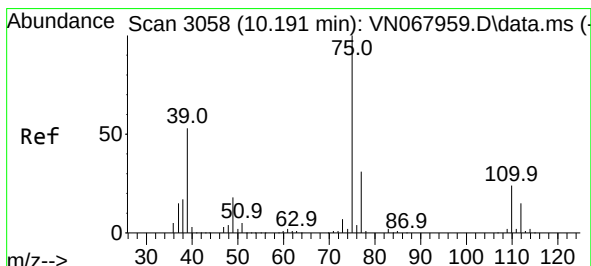
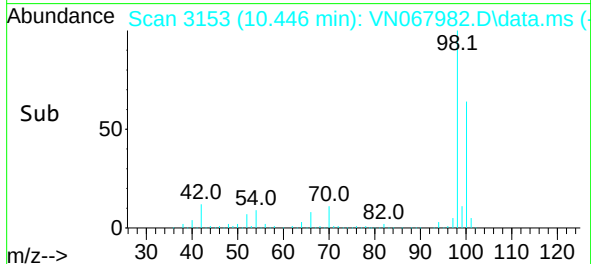
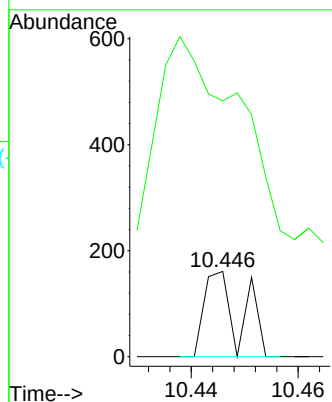
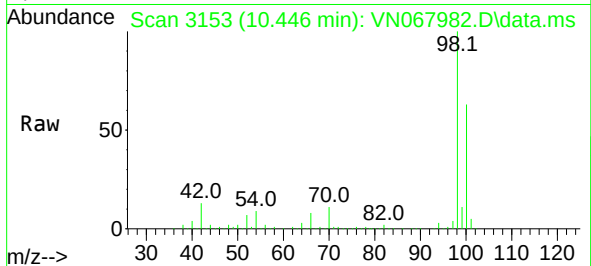




#53  
 t-1,3-Dichloropropene  
 Concen: 2.844 ug/l  
 RT: 10.446 min Scan# 3153  
 Delta R.T. -0.276 min  
 Lab File: VN067982.D  
 Acq: 3 Aug 2021 15:22

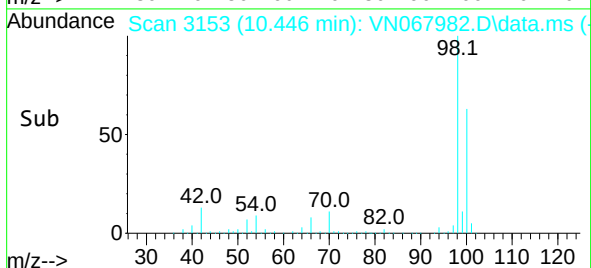
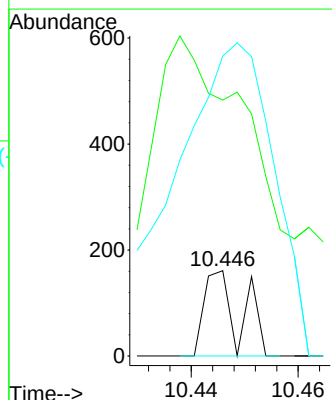
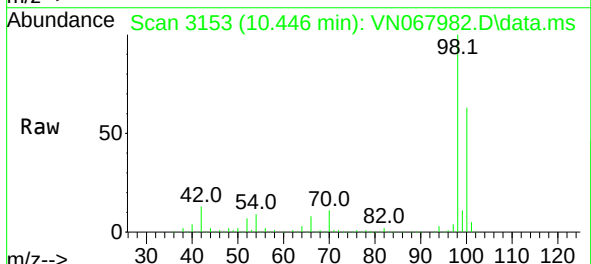
Instrument :  
 MSVOA\_N  
 ClientSampled :

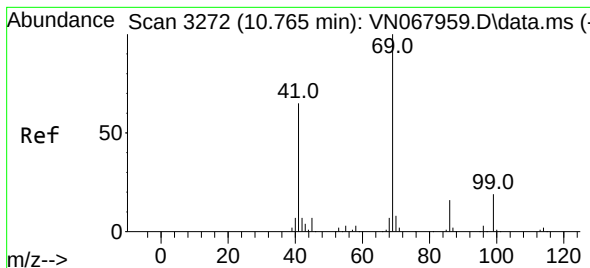
Tgt Ion: 75 Resp: 74  
 Ion Ratio Lower Upper  
 75 100  
 77 152.2 25.1 37.7#



#54  
 cis-1,3-Dichloropropene  
 Concen: 2.365 ug/l  
 RT: 10.446 min Scan# 3153  
 Delta R.T. 0.255 min  
 Lab File: VN067982.D  
 Acq: 3 Aug 2021 15:22

Tgt Ion: 75 Resp: 74  
 Ion Ratio Lower Upper  
 75 100  
 77 152.2 24.6 37.0#  
 39 165.2 50.7 76.1#

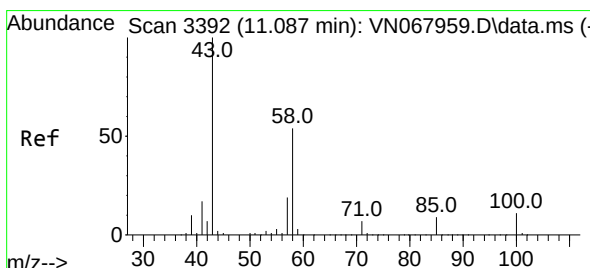
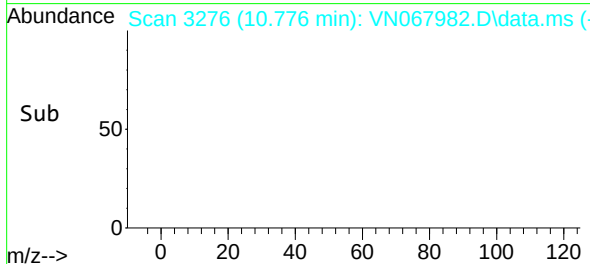
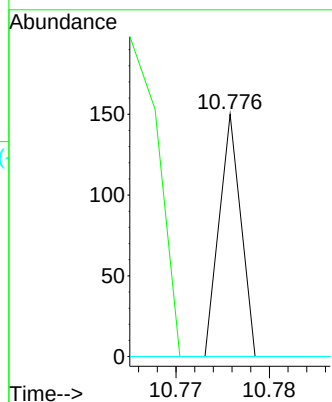
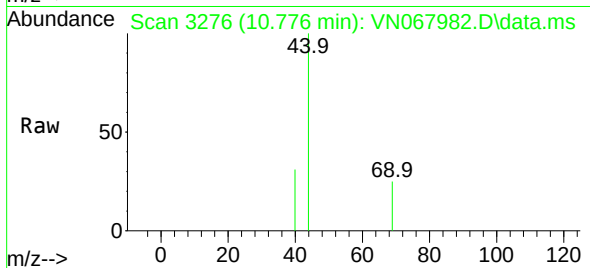




#56  
Ethyl methacrylate  
Concen: 3.102 ug/l  
RT: 10.776 min Scan# 3276  
Delta R.T. 0.011 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

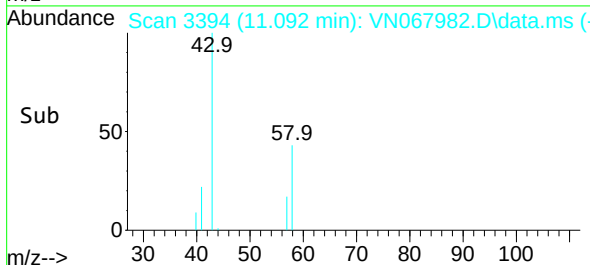
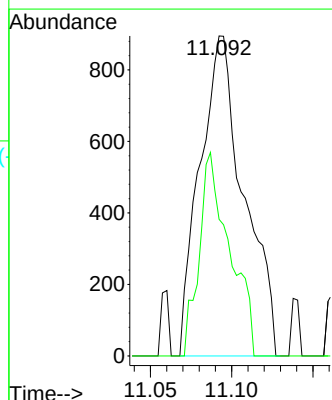
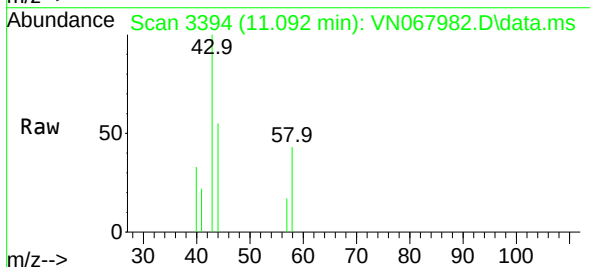
Instrument :  
MSVOA\_N  
ClientSampled :

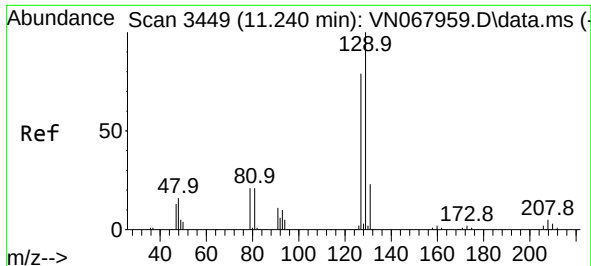
Tgt Ion: 69 Resp: 24  
Ion Ratio Lower Upper  
69 100  
41 350.0 58.6 88.0#  
39 0.0 38.3 57.5#



#59  
2-Hexanone  
Concen: 13.664 ug/l  
RT: 11.092 min Scan# 3394  
Delta R.T. 0.005 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

Tgt Ion: 43 Resp: 1690  
Ion Ratio Lower Upper  
43 100  
58 43.8 24.7 74.1

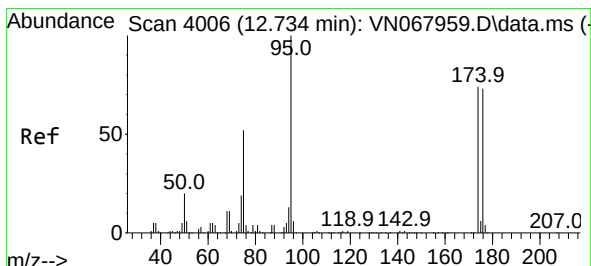
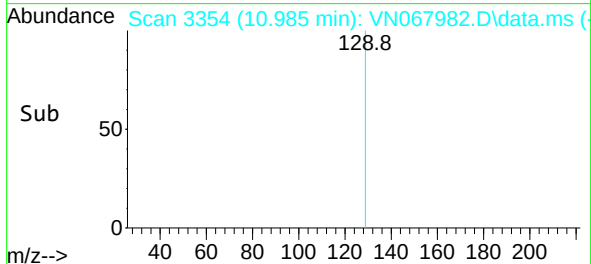
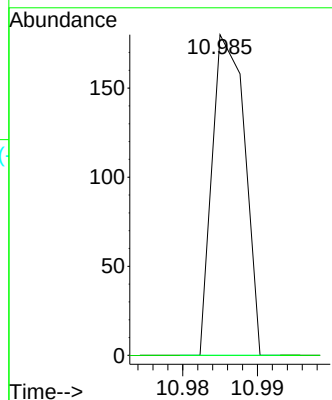
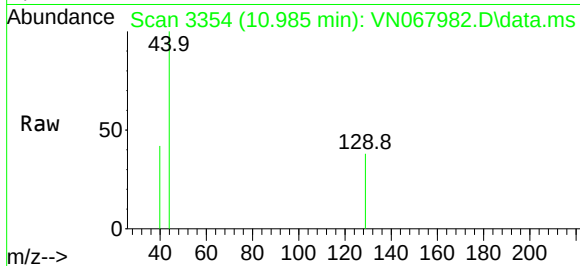




#60  
Dibromochloromethane  
Concen: 3.313 ug/l  
RT: 10.985 min Scan# 3354  
Delta R.T. -0.255 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

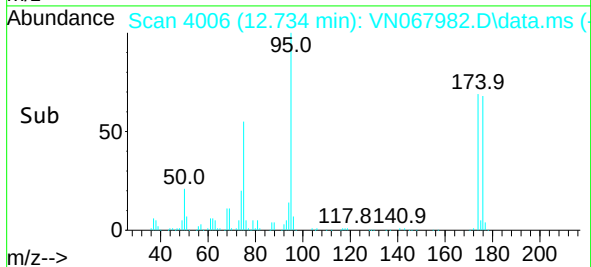
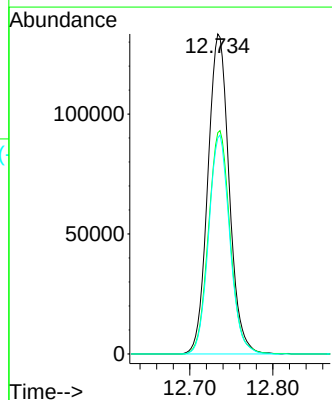
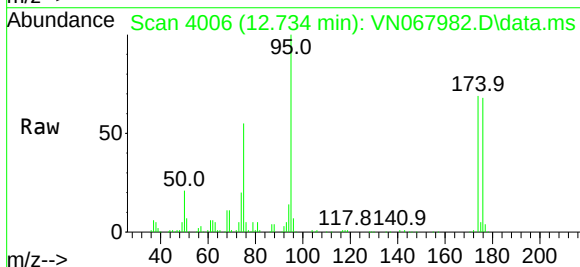
Instrument :  
MSVOA\_N  
ClientSampled :

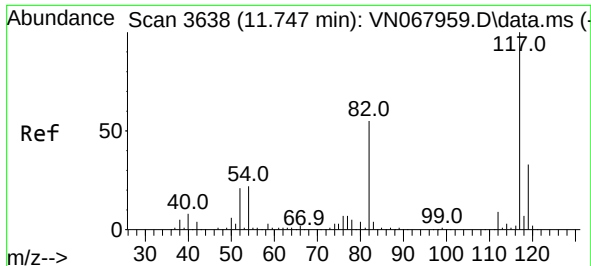
Tgt Ion:129 Resp: 54  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.6 115.8#



#62  
4-Bromofluorobenzene  
Concen: 43.397 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. -0.000 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

Tgt Ion: 95 Resp: 237321  
Ion Ratio Lower Upper  
95 100  
174 70.8 0.0 122.0  
176 67.8 0.0 117.6

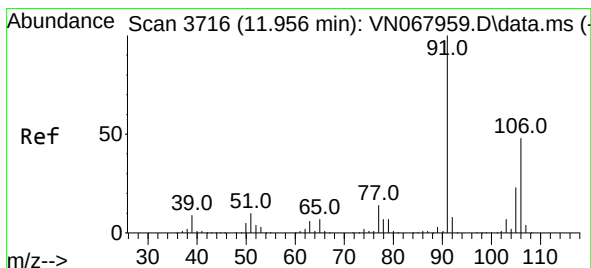
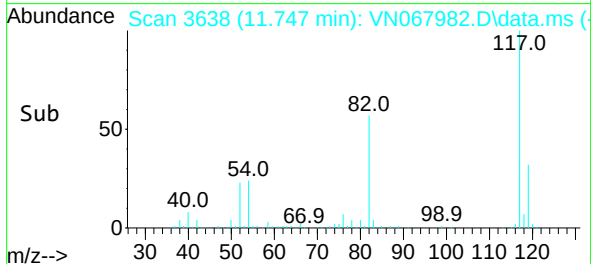
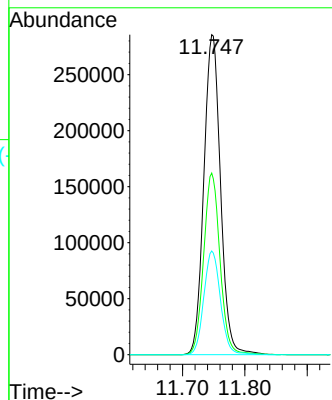
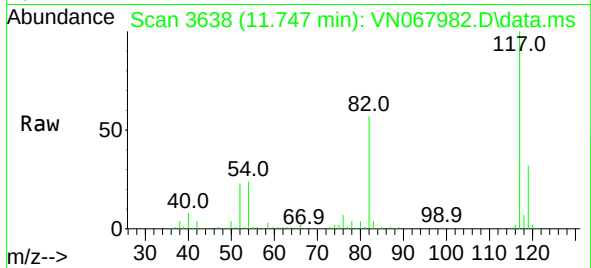




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.747 min Scan# 3638  
Delta R.T. -0.000 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

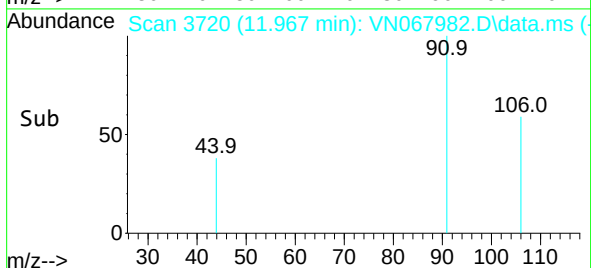
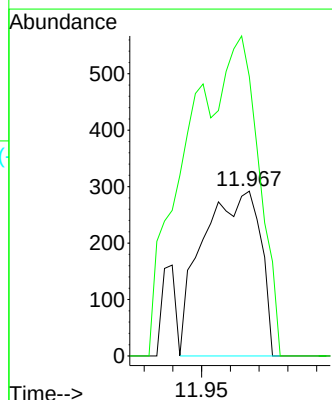
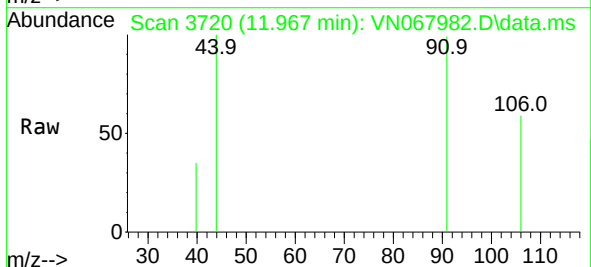
Instrument :  
MSVOA\_N  
ClientSampled :

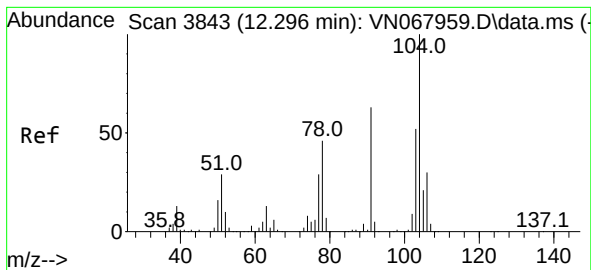
Tgt Ion:117 Resp: 531234  
Ion Ratio Lower Upper  
117 100  
82 56.8 53.1 79.7  
119 32.4 25.5 38.3



#68  
m/p-Xylenes  
Concen: 4.109 ug/l  
RT: 11.967 min Scan# 3720  
Delta R.T. 0.011 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

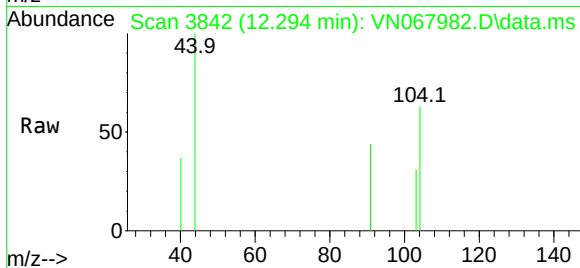
Tgt Ion:106 Resp: 408  
Ion Ratio Lower Upper  
106 100  
91 113.7 180.6 270.8#



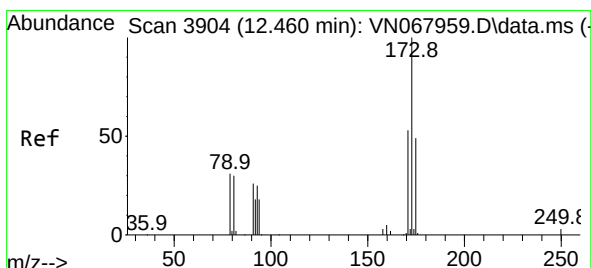
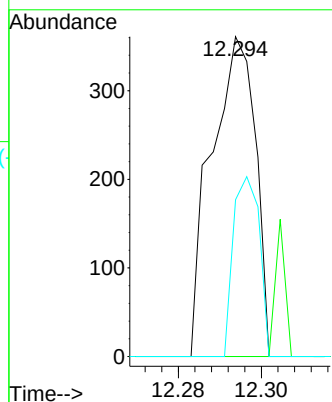
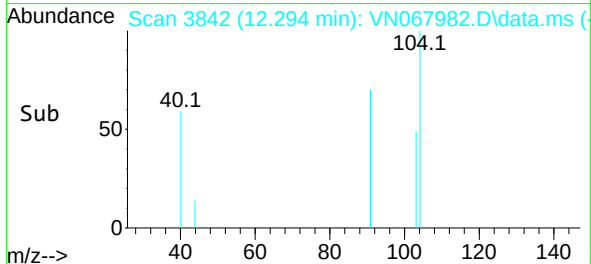


#70  
Styrene  
Concen: 2.650 ug/l  
RT: 12.294 min Scan# 3842  
Delta R.T. -0.002 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

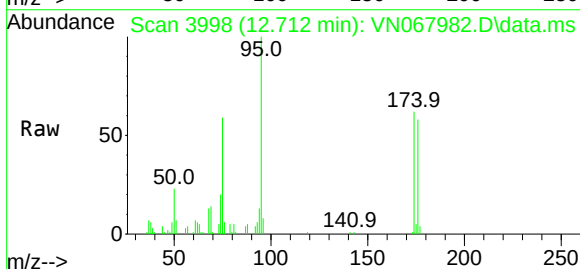
Instrument :  
MSVOA\_N  
ClientSampled :



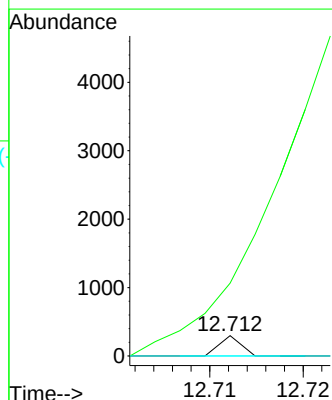
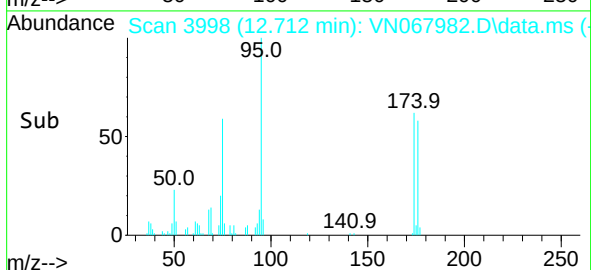
Tgt Ion:104 Resp: 265  
Ion Ratio Lower Upper  
104 100  
78 9.4 48.2 72.2#  
103 33.2 44.5 66.7#

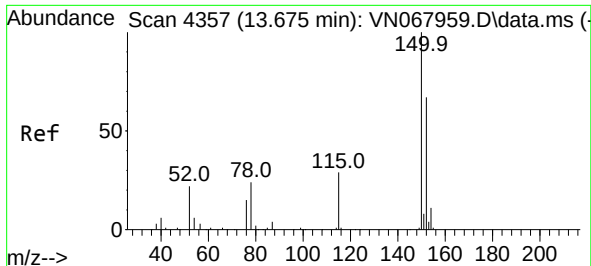


#71  
Bromoform  
Concen: 4.044 ug/l  
RT: 12.712 min Scan# 3998  
Delta R.T. 0.252 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22



Tgt Ion:173 Resp: 48  
Ion Ratio Lower Upper  
173 100  
175 0.0 23.9 71.8#  
254 0.0 0.0 0.0

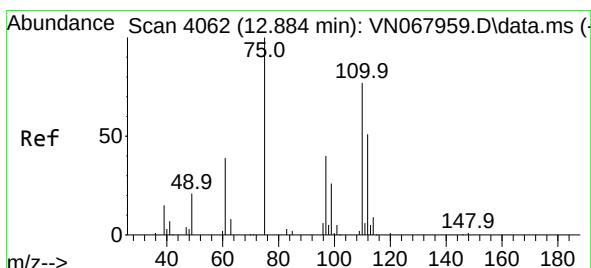
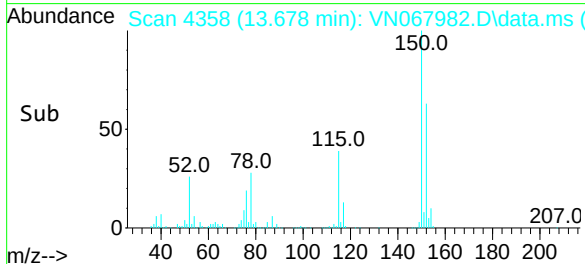
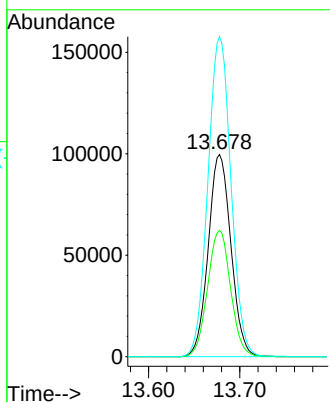
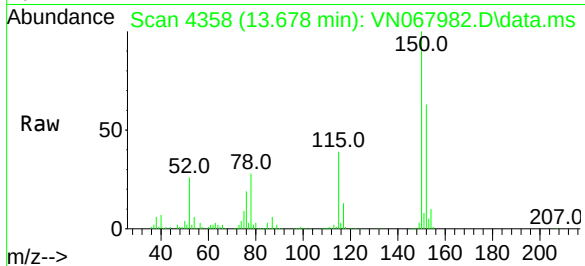




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.678 min Scan# 4358  
Delta R.T. 0.003 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

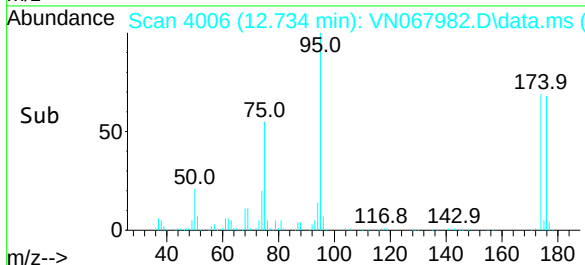
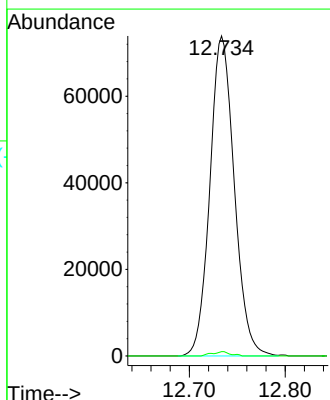
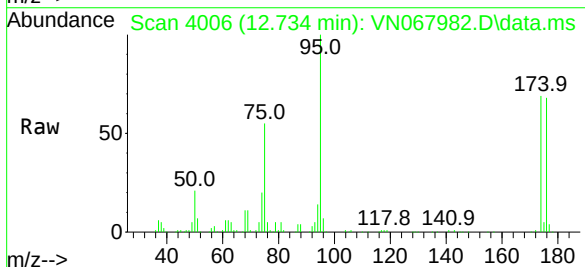
Instrument :  
MSVOA\_N  
ClientSampled :

Tgt Ion:152 Resp: 172792  
Ion Ratio Lower Upper  
152 100  
115 63.1 36.1 108.5  
150 160.6 0.0 351.8

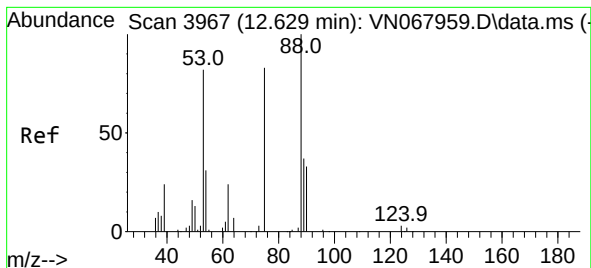


#76  
1,2,3-Trichloropropane  
Concen: 37.672 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. -0.150 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

Tgt Ion: 75 Resp: 130730  
Ion Ratio Lower Upper  
75 100  
77 1.0 0.0 0.0#



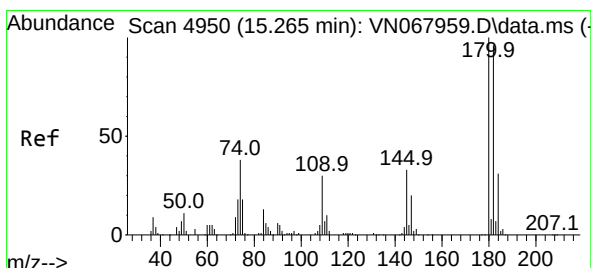
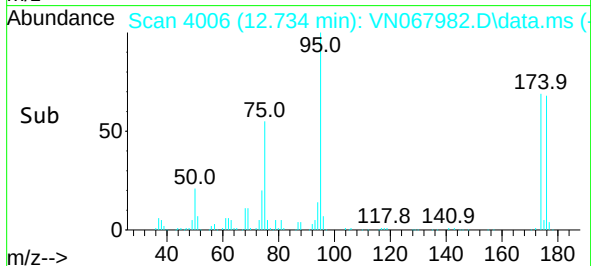
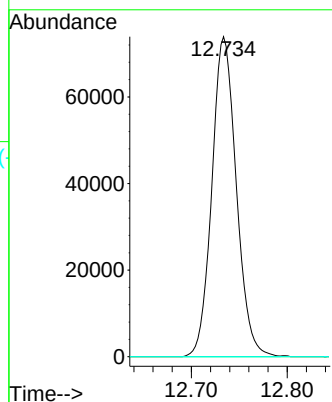
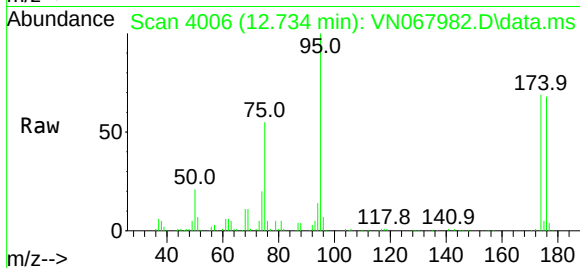




#81  
trans-1,4-Dichloro-2-butene  
Concen: 100.594 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. 0.105 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

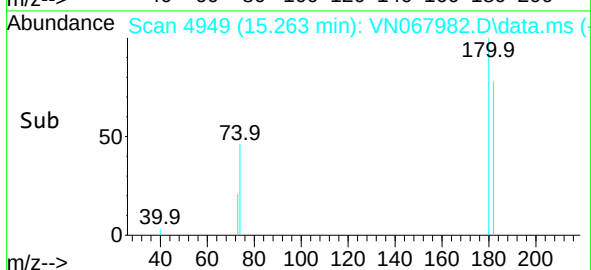
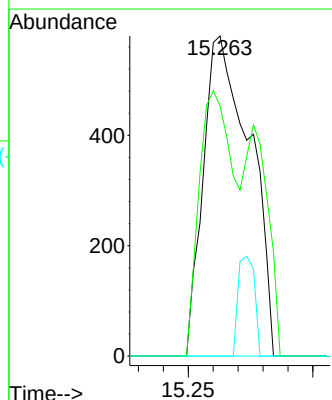
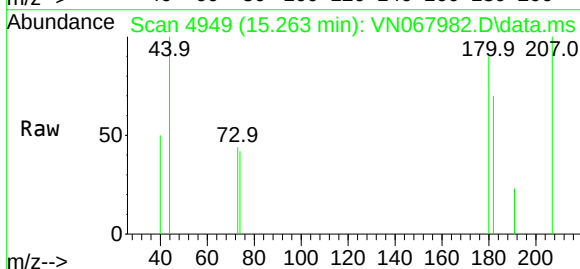
Instrument :  
MSVOA\_N  
ClientSampled :

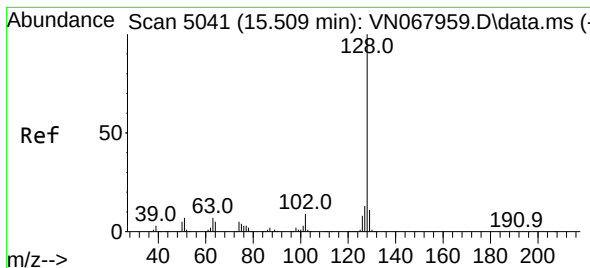
Tgt Ion: 75 Resp: 130730  
Ion Ratio Lower Upper  
75 100  
53 0.0 87.6 131.4#  
89 0.0 37.8 56.8#



#93  
1,2,4-Trichlorobenzene  
Concen: 2.751 ug/l  
RT: 15.263 min Scan# 4949  
Delta R.T. -0.002 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

Tgt Ion:180 Resp: 752  
Ion Ratio Lower Upper  
180 100  
182 62.1 47.5 142.5  
145 0.0 17.2 51.6#

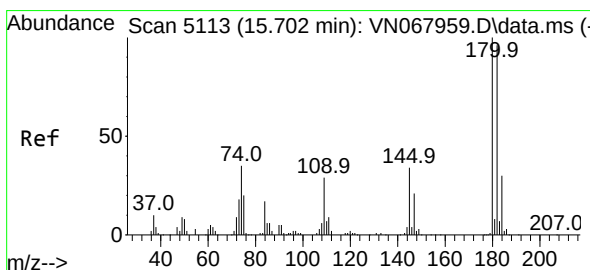
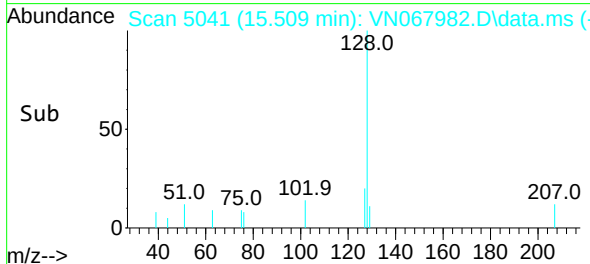
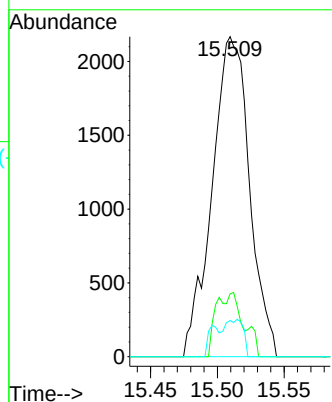
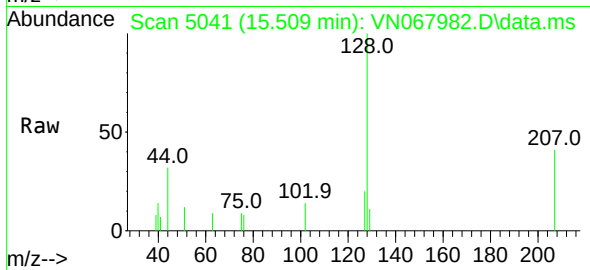




#95  
Naphthalene  
Concen: 3.671 ug/l  
RT: 15.509 min Scan# 5041  
Delta R.T. 0.000 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

Instrument :  
MSVOA\_N  
ClientSampled :

Tgt Ion:128 Resp: 4230  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.6 15.8#  
129 5.9 8.6 12.8#



#96  
1,2,3-Trichlorobenzene  
Concen: 2.744 ug/l  
RT: 15.697 min Scan# 5111  
Delta R.T. -0.005 min  
Lab File: VN067982.D  
Acq: 3 Aug 2021 15:22

Tgt Ion:180 Resp: 940  
Ion Ratio Lower Upper  
180 100  
182 46.9 47.8 143.3#  
145 10.0 18.2 54.6#

