

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN052821\  
 Data File : VN067193.D  
 Acq On : 28 May 2021 19:09  
 Operator : JC/MD  
 Sample : PB136697ZHE#10  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB136697ZHE#10

Quant Time: May 29 02:26:48 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N052121W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 21 17:24:08 2021  
 Response via : Initial Calibration

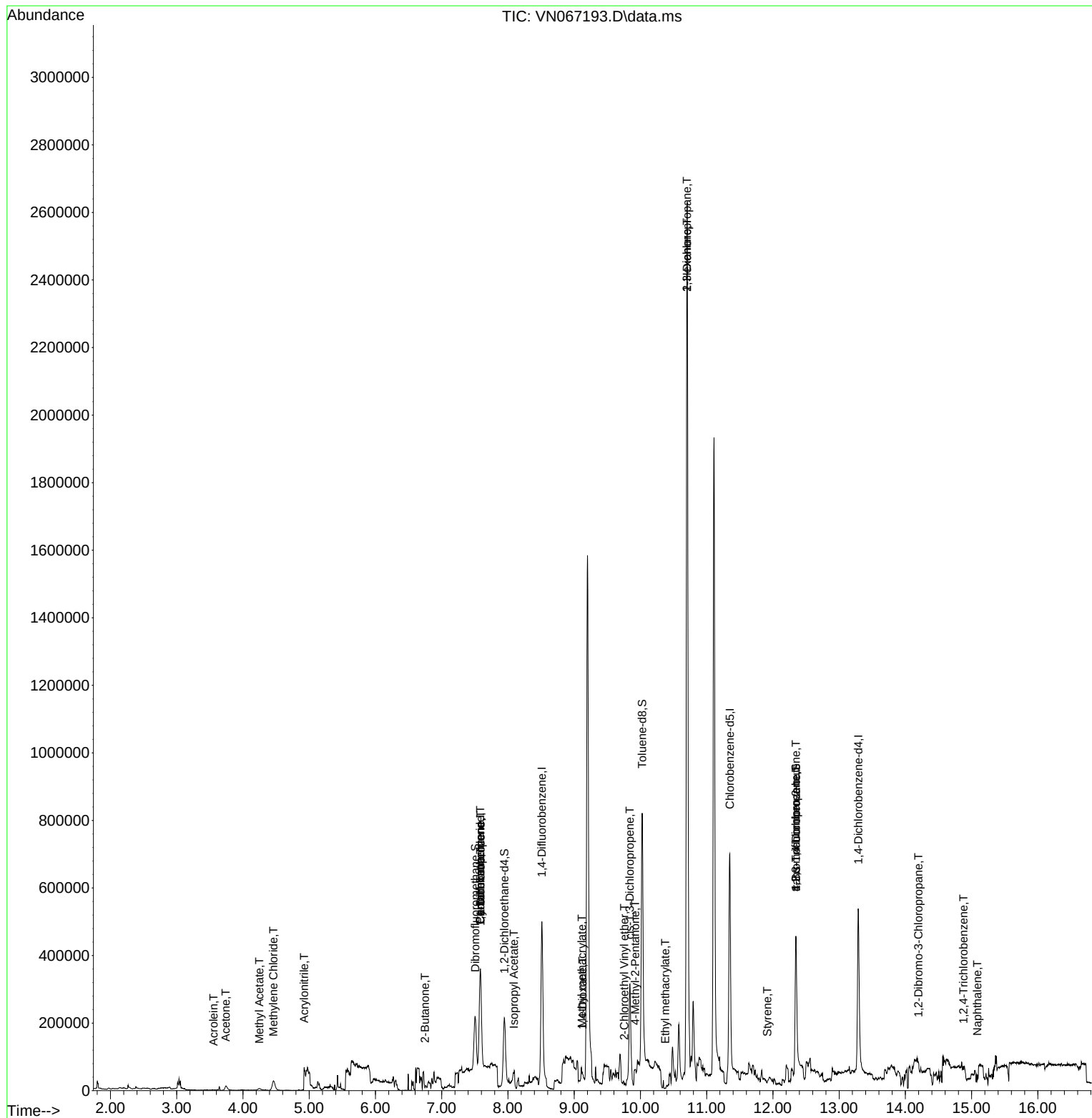
| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) Pentafluorobenzene         | 7.583          | 168  | 246245     | 50.00   | ug/l   | #-0.01   |
| 34) 1,4-Difluorobenzene       | 8.511          | 114  | 443983     | 50.00   | ug/l   | -0.01    |
| 63) Chlorobenzene-d5          | 11.349         | 117  | 394895     | 50.00   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.288         | 152  | 144096     | 50.00   | ug/l   | 0.00     |
|                               |                |      |            |         |        |          |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 7.946          | 65   | 178842     | 46.80   | ug/l   | -0.01    |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = | 93.60%  |        |          |
| 35) Dibromofluoromethane      | 7.506          | 113  | 137496     | 50.46   | ug/l   | -0.01    |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = | 100.92% |        |          |
| 50) Toluene-d8                | 10.027         | 98   | 538837     | 51.39   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = | 102.78% |        |          |
| 62) 4-Bromofluorobenzene      | 12.347         | 95   | 186998     | 52.16   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = | 104.32% |        |          |
|                               |                |      |            |         |        |          |
| Target Compounds              |                |      |            |         | Qvalue |          |
| 13) Acrolein                  | 3.555          | 56   | 661        | 0.99    | ug/l # | 51       |
| 15) Acrylonitrile             | 4.923          | 53   | 433        | 0.26    | ug/l # | 70       |
| 16) Acetone                   | 3.740          | 43   | 21916      | 13.95   | ug/l   | 98       |
| 18) Methyl Acetate            | 4.247          | 43   | 12282      | 2.80    | ug/l # | 61       |
| 20) Methylene Chloride        | 4.459          | 84   | 21584      | 5.59    | ug/l   | 89       |
| 25) 2-Butanone                | 6.749          | 43   | 2381       | 0.95    | ug/l   | 93       |
| 31) Cyclohexane               | 7.583          | 56   | 5391       | 0.91    | ug/l # | 9        |
| 36) 1,1-Dichloropropene       | 7.586          | 75   | 20916      | 4.66    | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 7.583          | 117  | 24876      | 5.69    | ug/l # | 15       |
| 43) Isopropyl Acetate         | 8.090          | 43   | 33088      | 3.85    | ug/l   | 93       |
| 48) Methyl methacrylate       | 9.115          | 41   | 6341       | 1.66    | ug/l # | 12       |
| 49) 1,4-Dioxane               | 9.126          | 88   | 387        | 67.23   | ug/l # | 27       |
| 51) 4-Methyl-2-Pentanone      | 9.919          | 43   | 5930       | 1.25    | ug/l   | 94       |
| 54) cis-1,3-Dichloropropene   | 9.842          | 75   | 55829      | 9.80    | ug/l # | 65       |
| 56) Ethyl methacrylate        | 10.375         | 69   | 289        | 2.84    | ug/l # | 31       |
| 57) 1,3-Dichloropropane       | 10.705         | 76   | 27243      | 4.91    | ug/l # | 42       |
| 58) 2-Chloroethyl Vinyl ether | 9.759          | 63   | 188        | 6.97    | ug/l   | 95       |
| 59) 2-Hexanone                | 10.705         | 43   | 389257     | 118.69  | ug/l # | 47       |
| 70) Styrene                   | 11.918         | 104  | 168        | 2.52    | ug/l # | 8        |
| 76) 1,2,3-Trichloropropane    | 12.347         | 75   | 93706      | 23.36   | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.347         | 75   | 93706      | 66.29   | ug/l # | 16       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.195         | 75   | 694        | 0.89    | ug/l   | 75       |
| 93) 1,2,4-Trichlorobenzene    | 14.876         | 180  | 187        | 3.33    | ug/l   | 69       |
| 95) Naphthalene               | 15.085         | 128  | 49         | 3.87    | ug/l # | 69       |
| -----                         |                |      |            |         |        |          |

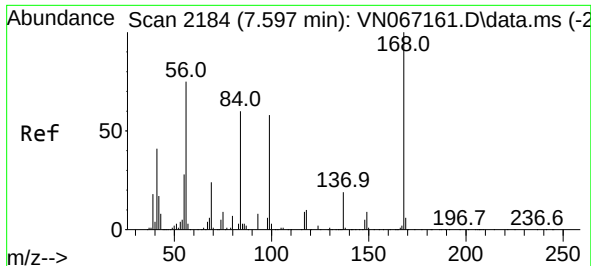
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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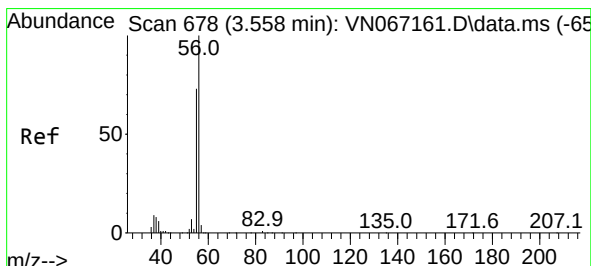
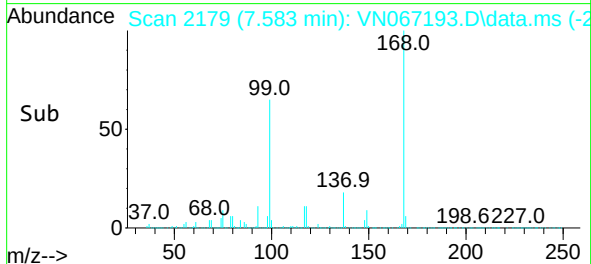
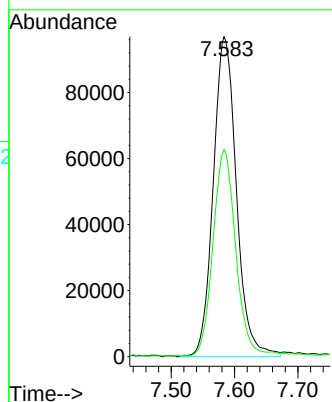
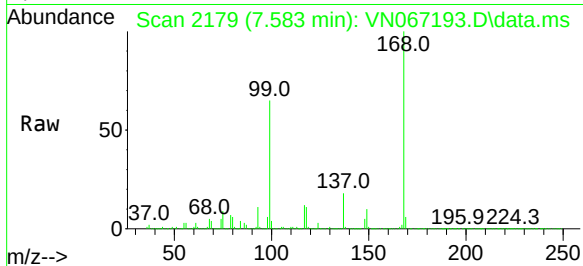




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.583 min Scan# 2179  
Delta R.T. -0.014 min  
Lab File: VN067193.D  
Acq: 28 May 2021 19:09

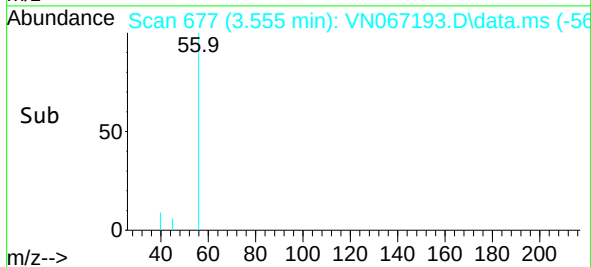
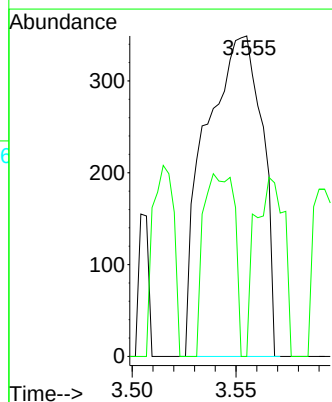
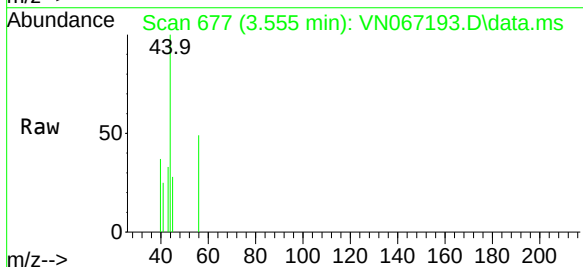
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB136697ZHE#10

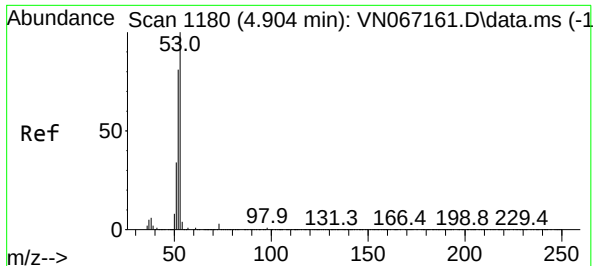
Tgt Ion:168 Resp: 246245  
Ion Ratio Lower Upper  
168 100  
99 64.5 38.5 57.7#



#13  
Acrolein  
Concen: 0.99 ug/l  
RT: 3.555 min Scan# 677  
Delta R.T. -0.003 min  
Lab File: VN067193.D  
Acq: 28 May 2021 19:09

Tgt Ion: 56 Resp: 661  
Ion Ratio Lower Upper  
56 100  
55 28.1 53.8 80.6#





#15

Acrylonitrile

Concen: 0.26 ug/l

RT: 4.923 min Scan# 1187

Delta R.T. 0.019 min

Lab File: VN067193.D

Acq: 28 May 2021 19:09

Tgt Ion: 53 Resp: 433

Ion Ratio Lower Upper

53 100

52 83.1 66.6 100.0

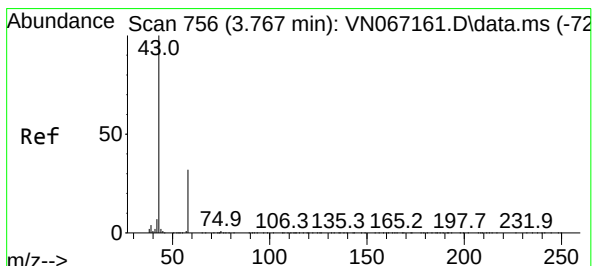
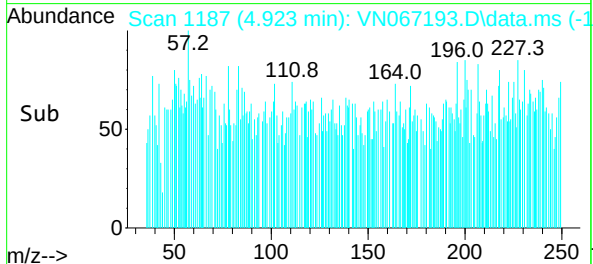
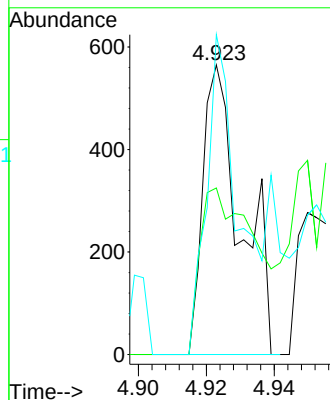
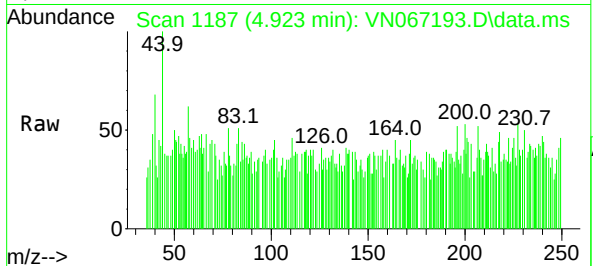
51 94.2 28.6 42.8#

Instrument :

MSVOA\_N

ClientSampleId :

PB136697ZHE#10



#16

Acetone

Concen: 13.95 ug/l

RT: 3.740 min Scan# 746

Delta R.T. -0.027 min

Lab File: VN067193.D

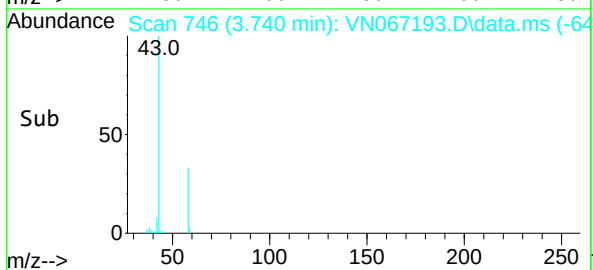
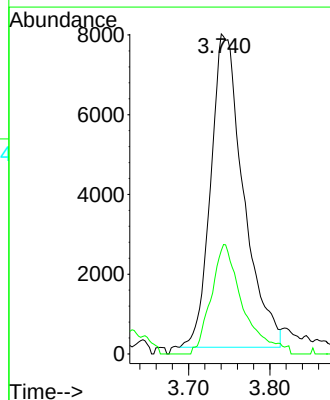
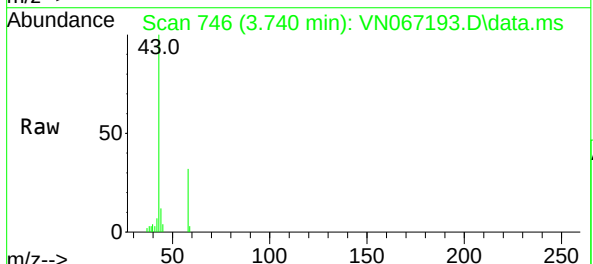
Acq: 28 May 2021 19:09

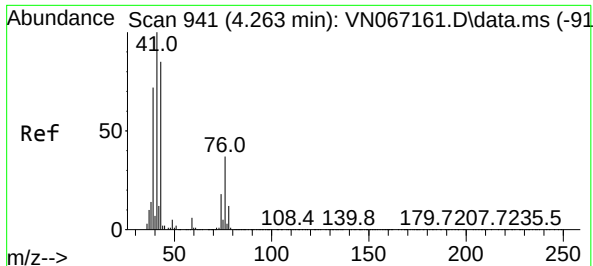
Tgt Ion: 43 Resp: 21916

Ion Ratio Lower Upper

43 100

58 33.0 27.2 40.8

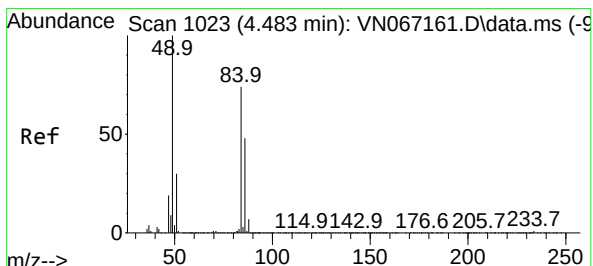
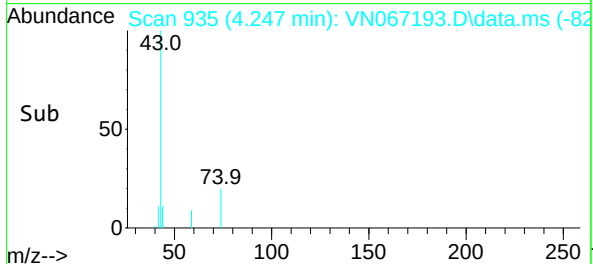
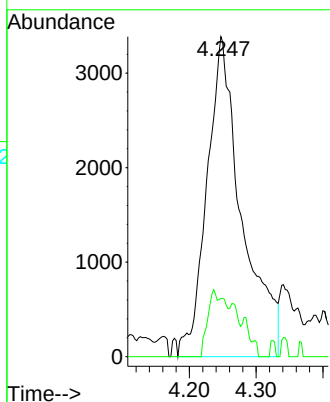
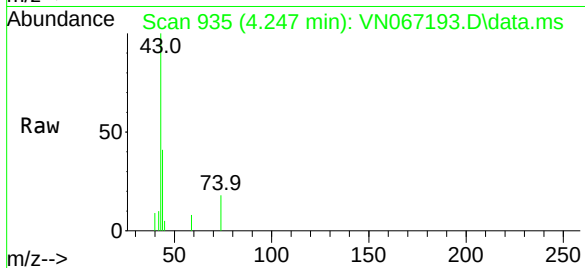




#18  
Methyl Acetate  
Concen: 2.80 ug/l  
RT: 4.247 min Scan# 935  
Delta R.T. -0.016 min  
Lab File: VN067193.D  
Acq: 28 May 2021 19:09

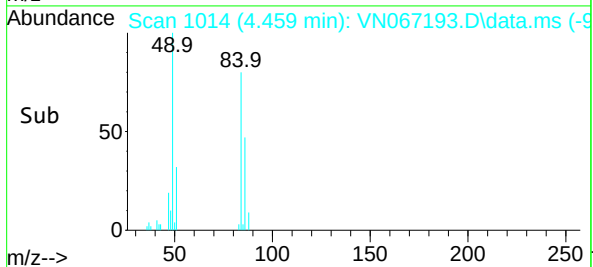
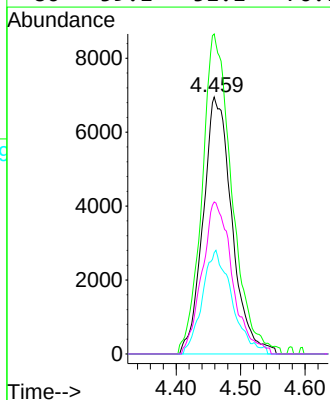
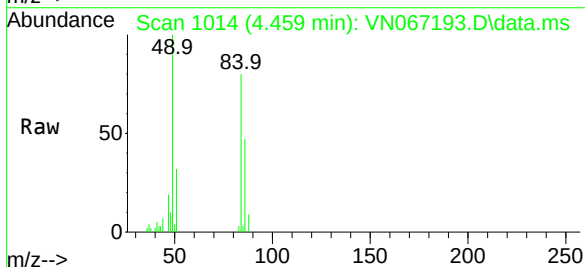
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB136697ZHE#10

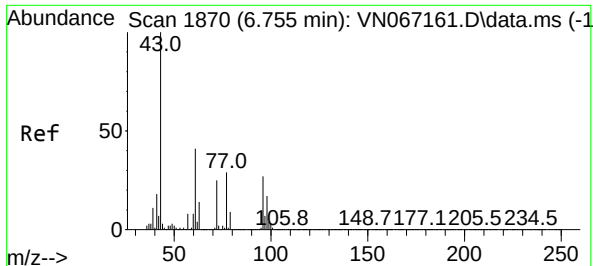
Tgt Ion: 43 Resp: 12282  
Ion Ratio Lower Upper  
43 100  
74 6.6 21.4 32.2#



#20  
Methylene Chloride  
Concen: 5.59 ug/l  
RT: 4.459 min Scan# 1014  
Delta R.T. -0.024 min  
Lab File: VN067193.D  
Acq: 28 May 2021 19:09

Tgt Ion: 84 Resp: 21584  
Ion Ratio Lower Upper  
84 100  
49 124.5 88.3 132.5  
51 39.4 26.7 40.1  
86 59.1 51.1 76.7





#25

2-Butanone

Concen: 0.95 ug/l

RT: 6.749 min Scan# 1868

Delta R.T. -0.006 min

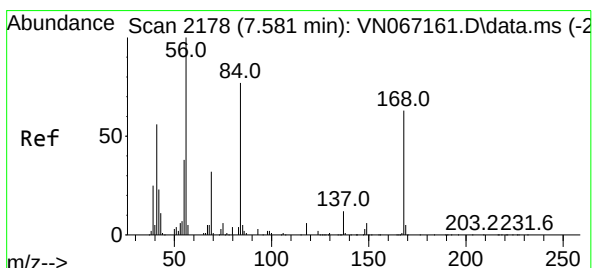
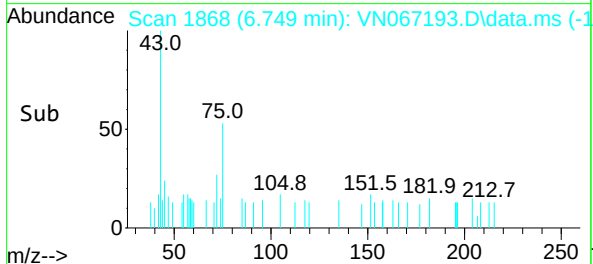
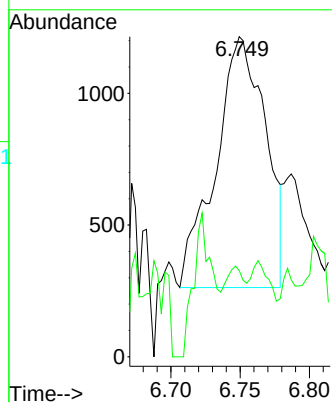
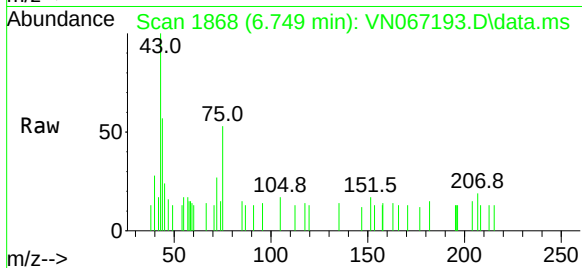
Lab File: VN067193.D

Acq: 28 May 2021 19:09

Tgt Ion: 43 Resp: 2381

Ion Ratio Lower Upper

|    |      |      |      |
|----|------|------|------|
| 43 | 100  |      |      |
| 72 | 34.3 | 24.4 | 36.6 |



#31

Cyclohexane

Concen: 0.91 ug/l

RT: 7.583 min Scan# 2179

Delta R.T. 0.002 min

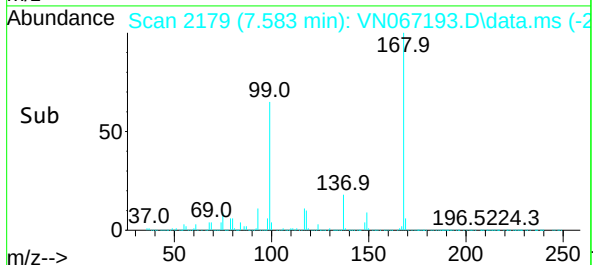
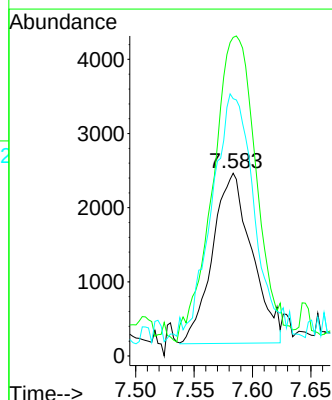
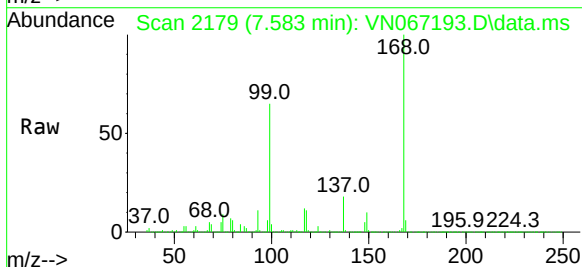
Lab File: VN067193.D

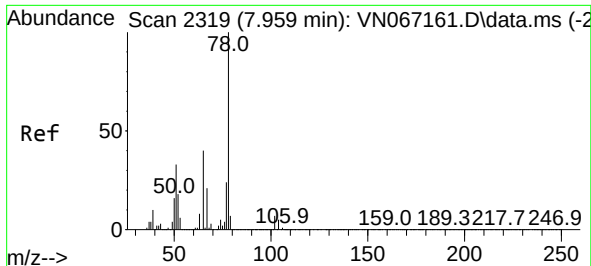
Acq: 28 May 2021 19:09

Tgt Ion: 56 Resp: 5391

Ion Ratio Lower Upper

|    |       |      |        |
|----|-------|------|--------|
| 56 | 100   |      |        |
| 69 | 169.7 | 28.0 | 42.0#  |
| 84 | 129.0 | 74.2 | 111.2# |

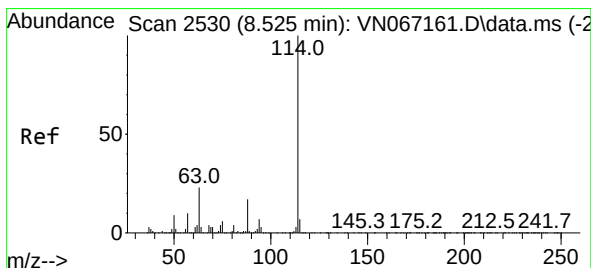
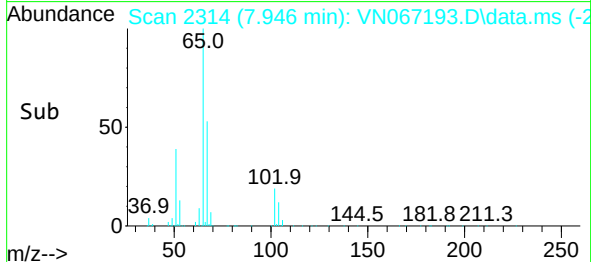
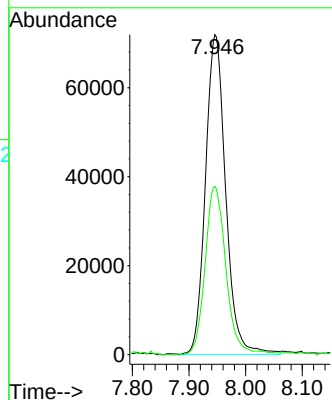
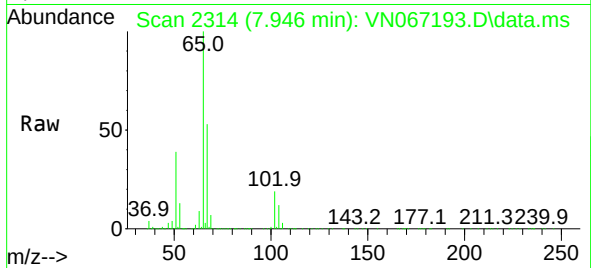




#33  
 1,2-Dichloroethane-d4  
 Concen: 46.80 ug/l  
 RT: 7.946 min Scan# 2314  
 Delta R.T. -0.013 min  
 Lab File: VN067193.D  
 Acq: 28 May 2021 19:09

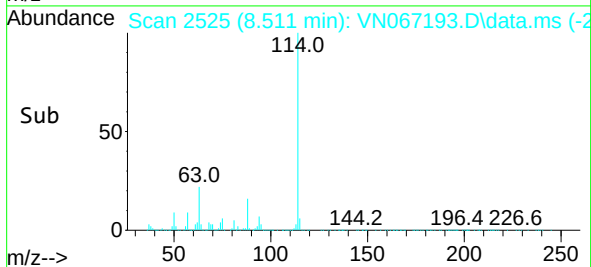
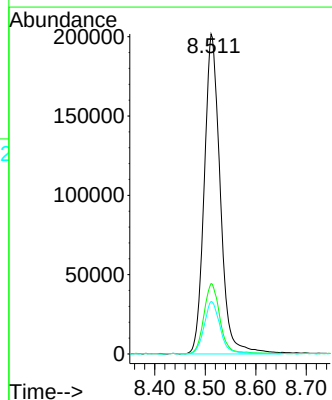
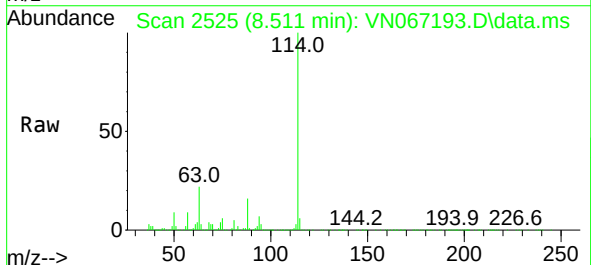
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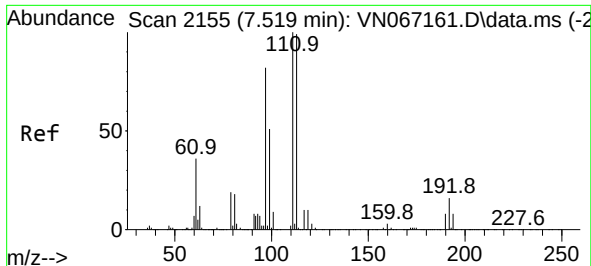
Tgt Ion: 65 Resp: 178842  
 Ion Ratio Lower Upper  
 65 100  
 67 53.4 0.0 110.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.511 min Scan# 2525  
 Delta R.T. -0.014 min  
 Lab File: VN067193.D  
 Acq: 28 May 2021 19:09

Tgt Ion: 114 Resp: 443983  
 Ion Ratio Lower Upper  
 114 100  
 63 21.8 0.0 35.8  
 88 16.3 0.0 30.4

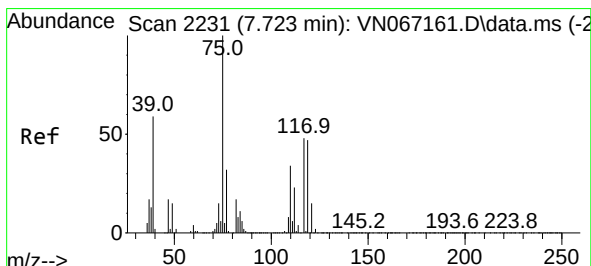
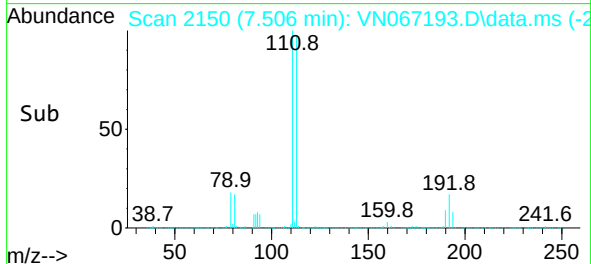
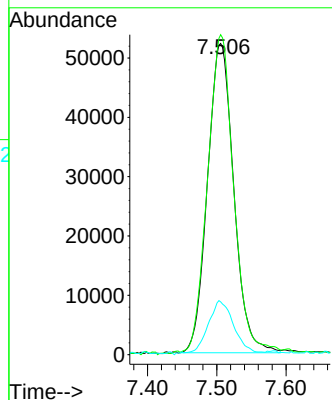
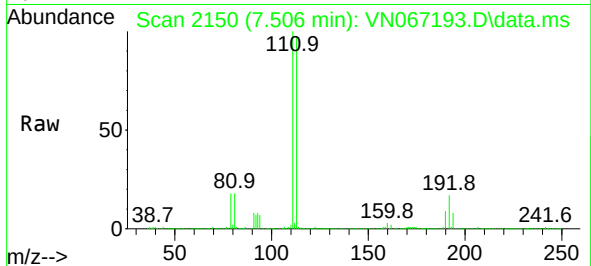




#35  
Dibromofluoromethane  
Concen: 50.46 ug/l  
RT: 7.506 min Scan# 2150  
Delta R.T. -0.013 min  
Lab File: VN067193.D  
Acq: 28 May 2021 19:09

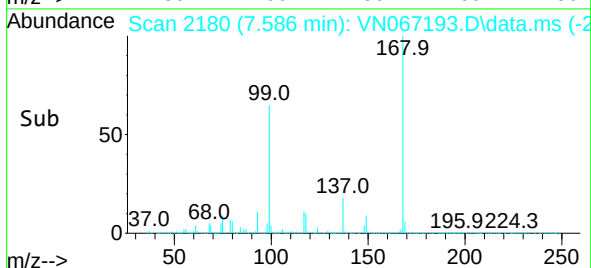
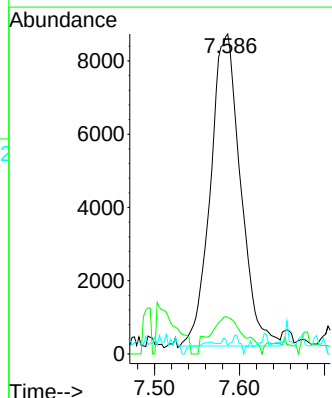
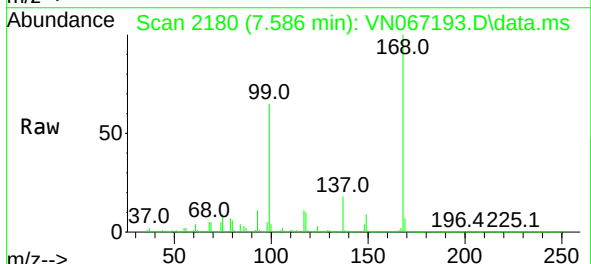
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB136697ZHE#10

Tgt Ion:113 Resp: 137496  
Ion Ratio Lower Upper  
113 100  
111 101.5 82.6 124.0  
192 16.3 18.2 27.4#

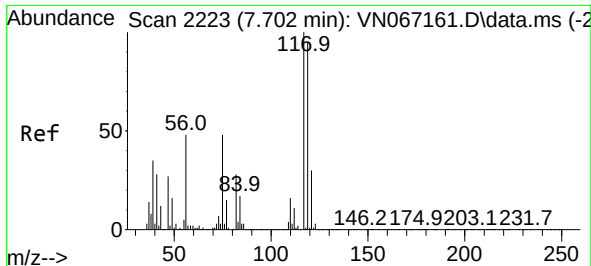


#36  
1,1-Dichloropropene  
Concen: 4.66 ug/l  
RT: 7.586 min Scan# 2180  
Delta R.T. -0.137 min  
Lab File: VN067193.D  
Acq: 28 May 2021 19:09

Tgt Ion: 75 Resp: 20916  
Ion Ratio Lower Upper  
75 100  
110 11.6 19.1 57.3#  
77 0.7 24.8 37.2#



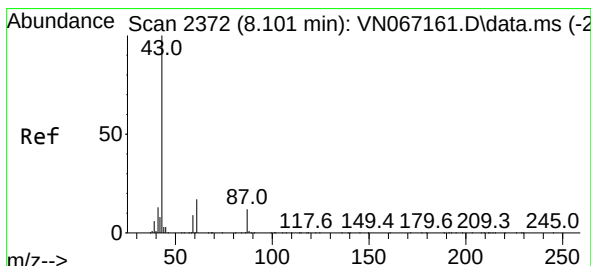
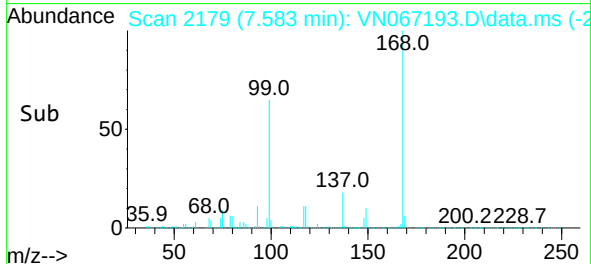
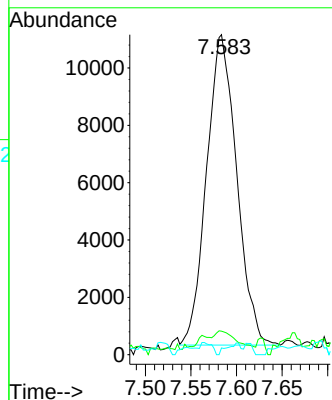
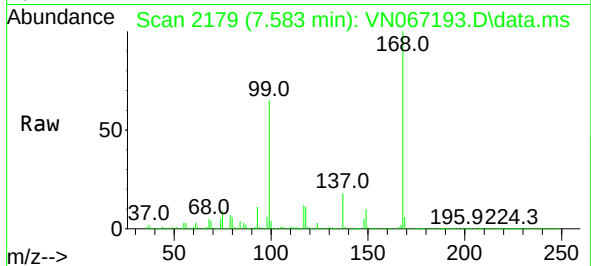




#38  
Carbon Tetrachloride  
Concen: 5.69 ug/l  
RT: 7.583 min Scan# 2179  
Delta R.T. -0.119 min  
Lab File: VN067193.D  
Acq: 28 May 2021 19:09

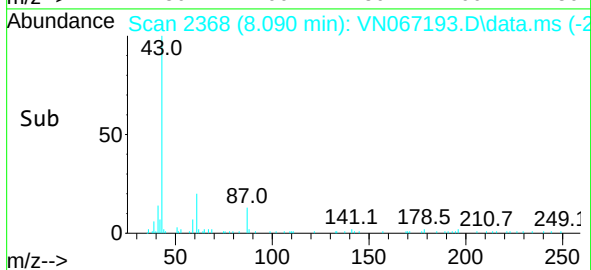
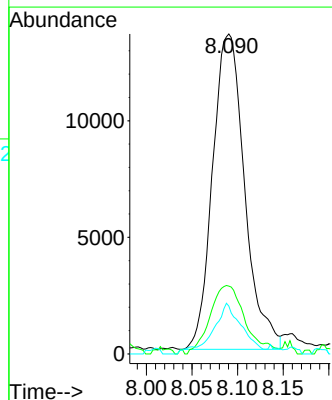
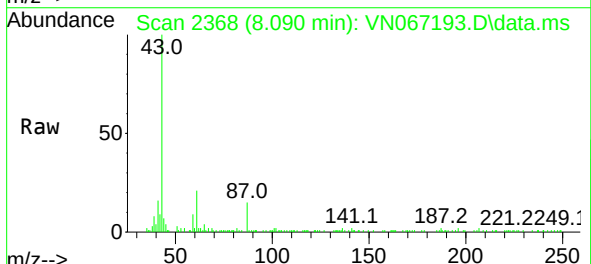
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB136697ZHE#10

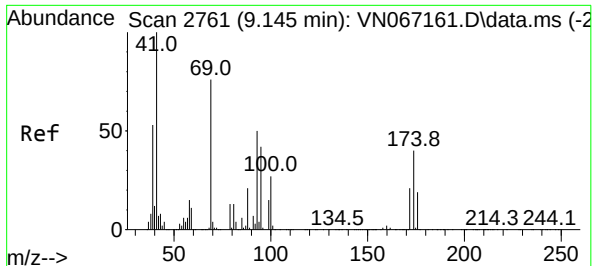
Tgt Ion: 117 Resp: 24876  
Ion Ratio Lower Upper  
117 100  
119 4.1 78.2 117.2#  
121 0.6 24.7 37.1#



#43  
Isopropyl Acetate  
Concen: 3.85 ug/l  
RT: 8.090 min Scan# 2368  
Delta R.T. -0.011 min  
Lab File: VN067193.D  
Acq: 28 May 2021 19:09

Tgt Ion: 43 Resp: 33088  
Ion Ratio Lower Upper  
43 100  
61 23.8 23.4 35.0  
87 14.7 12.2 18.2

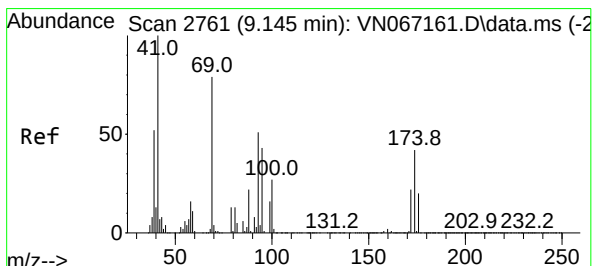
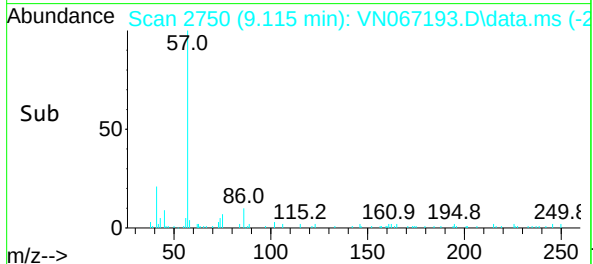
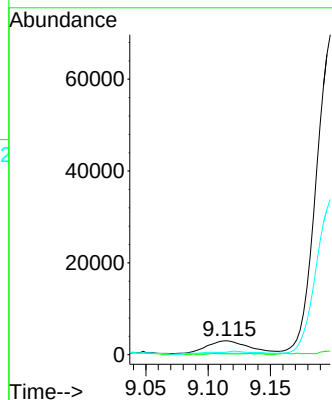
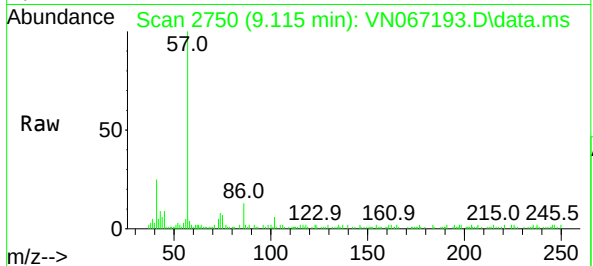




#48  
Methyl methacrylate  
Concen: 1.66 ug/l  
RT: 9.115 min Scan# 2750  
Delta R.T. -0.030 min  
Lab File: VN067193.D  
Acq: 28 May 2021 19:09

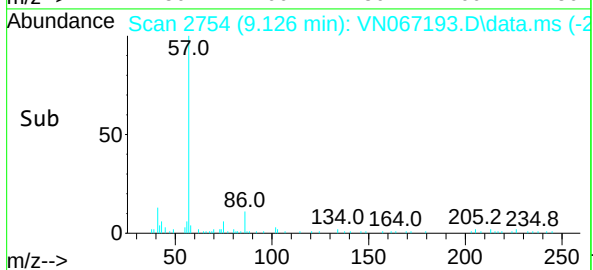
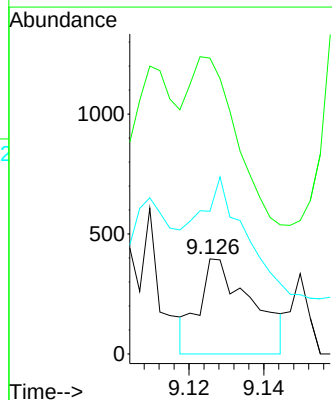
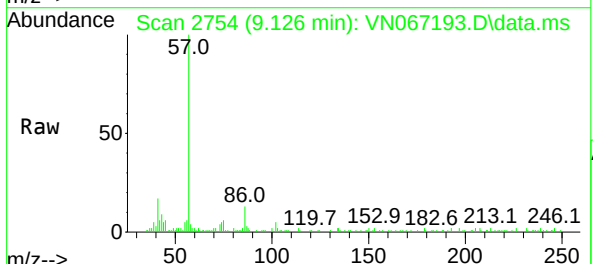
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB136697ZHE#10

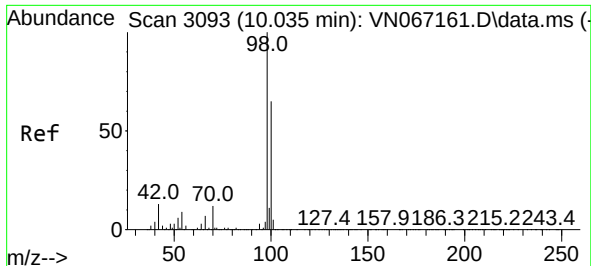
Tgt Ion: 41 Resp: 6341  
Ion Ratio Lower Upper  
41 100  
69 4.5 80.5 120.7#  
39 0.0 41.4 62.0#



#49  
1,4-Dioxane  
Concen: 67.23 ug/l  
RT: 9.126 min Scan# 2754  
Delta R.T. -0.019 min  
Lab File: VN067193.D  
Acq: 28 May 2021 19:09

Tgt Ion: 88 Resp: 387  
Ion Ratio Lower Upper  
88 100  
43 0.0 21.8 32.8#  
58 0.0 50.8 76.2#

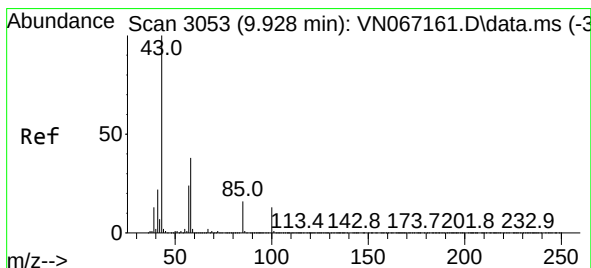
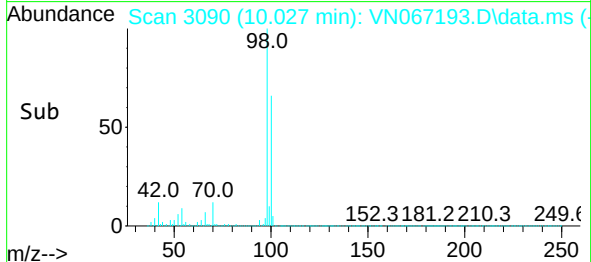
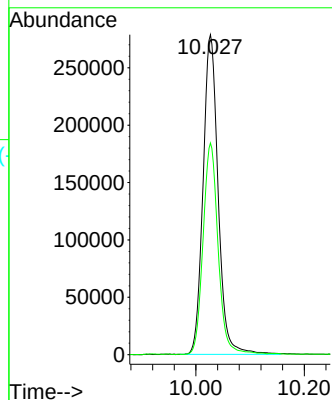
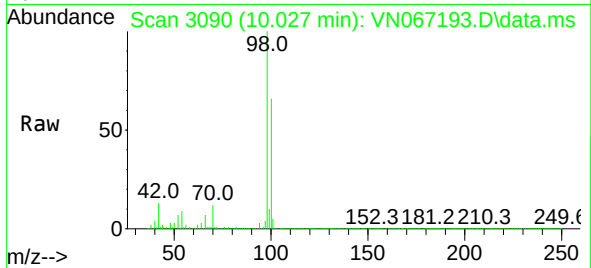




#50  
Toluene-d8  
Concen: 51.39 ug/l  
RT: 10.027 min Scan# 3090  
Delta R.T. -0.008 min  
Lab File: VN067193.D  
Acq: 28 May 2021 19:09

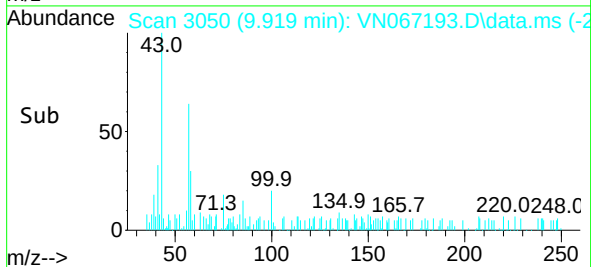
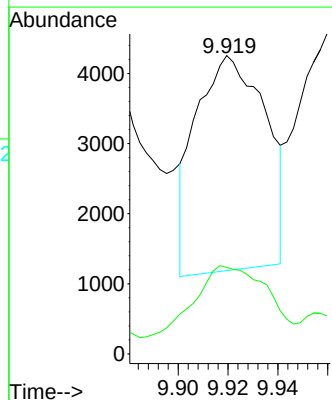
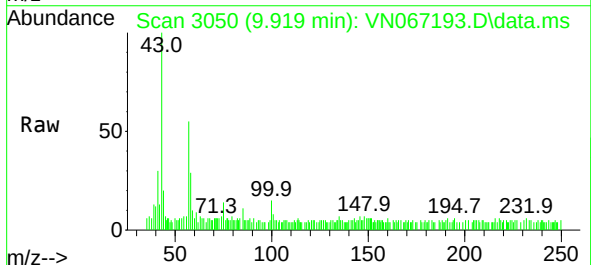
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB136697ZHE#10

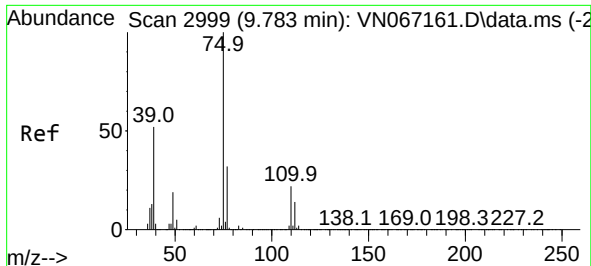
Tgt Ion: 98 Resp: 538837  
Ion Ratio Lower Upper  
98 100  
100 65.7 51.8 77.8



#51  
4-Methyl-2-Pentanone  
Concen: 1.25 ug/l  
RT: 9.919 min Scan# 3050  
Delta R.T. -0.009 min  
Lab File: VN067193.D  
Acq: 28 May 2021 19:09

Tgt Ion: 43 Resp: 5930  
Ion Ratio Lower Upper  
43 100  
58 39.4 34.5 51.7

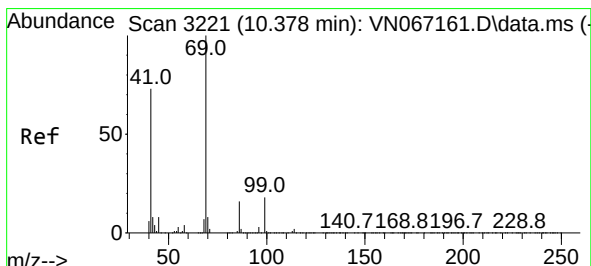
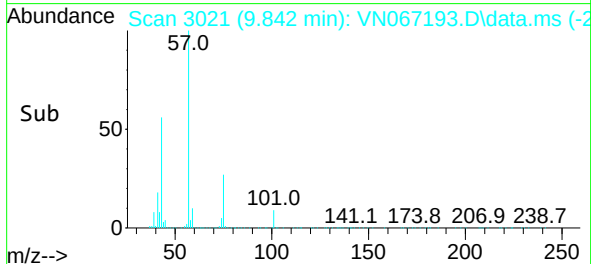
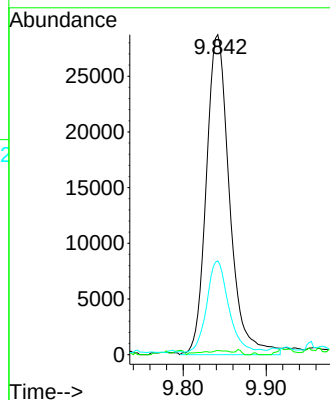
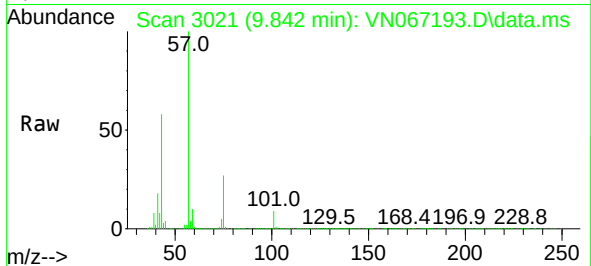




#54  
cis-1,3-Dichloropropene  
Concen: 9.80 ug/l  
RT: 9.842 min Scan# 3021  
Delta R.T. 0.059 min  
Lab File: VN067193.D  
Acq: 28 May 2021 19:09

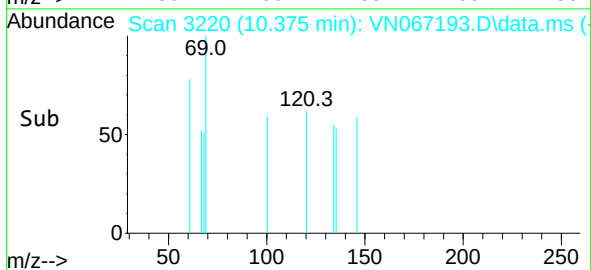
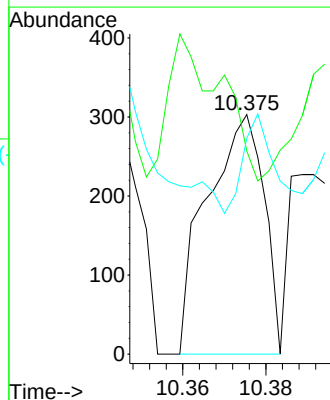
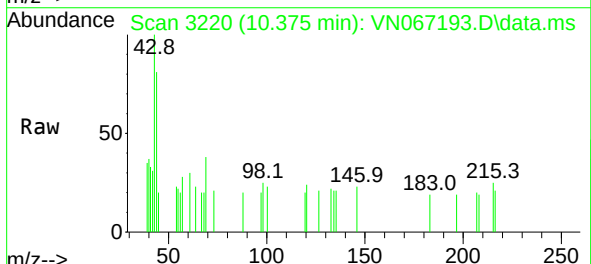
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB136697ZHE#10

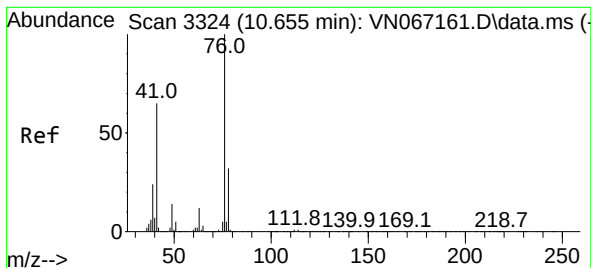
Tgt Ion: 75 Resp: 55829  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.1 37.7#  
39 28.3 30.9 46.3#



#56  
Ethyl methacrylate  
Concen: 2.84 ug/l  
RT: 10.375 min Scan# 3220  
Delta R.T. -0.003 min  
Lab File: VN067193.D  
Acq: 28 May 2021 19:09

Tgt Ion: 69 Resp: 289  
Ion Ratio Lower Upper  
69 100  
41 0.0 45.5 68.3#  
39 0.0 22.9 34.3#

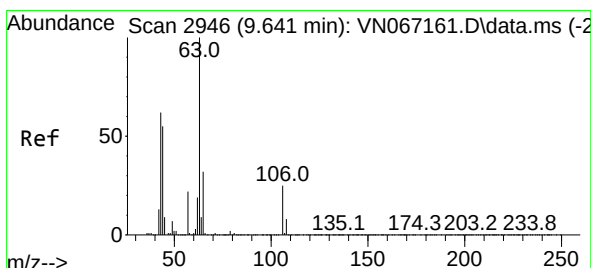
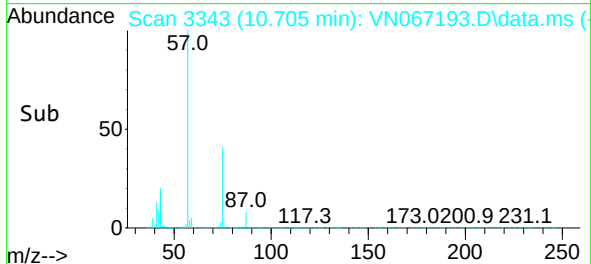
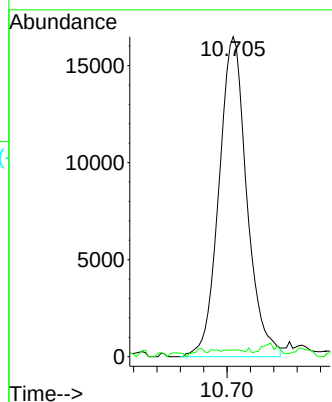
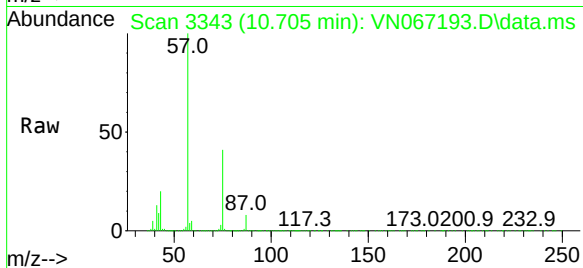




#57  
1,3-Dichloropropane  
Concen: 4.91 ug/l  
RT: 10.705 min Scan# 3343  
Delta R.T. 0.050 min  
Lab File: VN067193.D  
Acq: 28 May 2021 19:09

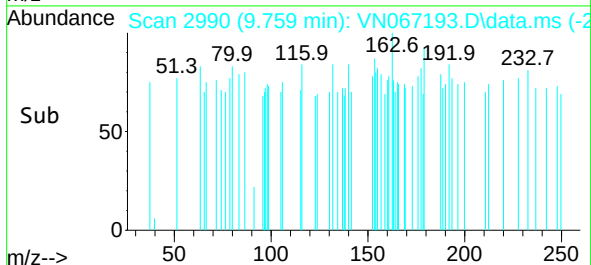
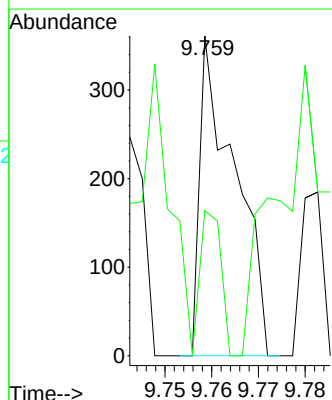
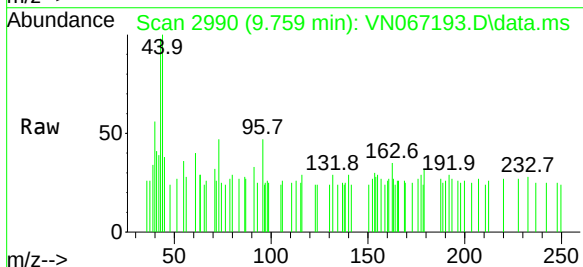
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB136697ZHE#10

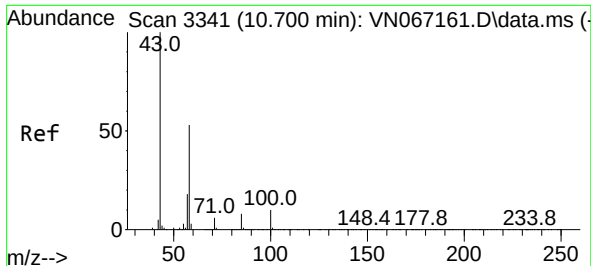
Tgt Ion: 76 Resp: 27243  
Ion Ratio Lower Upper  
76 100  
78 0.3 26.3 39.5#



#58  
2-Chloroethyl Vinyl ether  
Concen: 6.97 ug/l  
RT: 9.759 min Scan# 2990  
Delta R.T. 0.118 min  
Lab File: VN067193.D  
Acq: 28 May 2021 19:09

Tgt Ion: 63 Resp: 188  
Ion Ratio Lower Upper  
63 100  
106 27.1 23.9 35.9

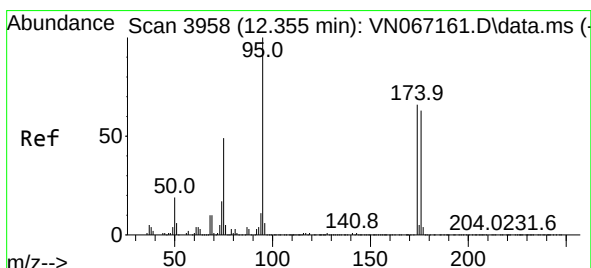
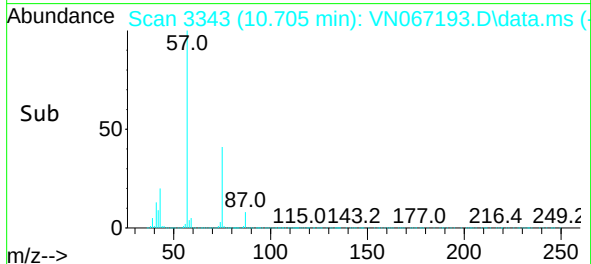
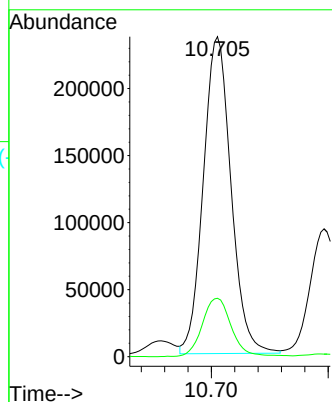
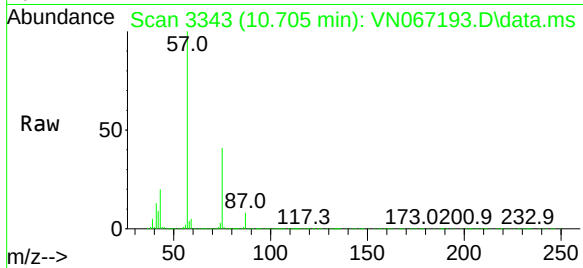




#59  
2-Hexanone  
Concen: 118.69 ug/l  
RT: 10.705 min Scan# 3343  
Delta R.T. 0.005 min  
Lab File: VN067193.D  
Acq: 28 May 2021 19:09

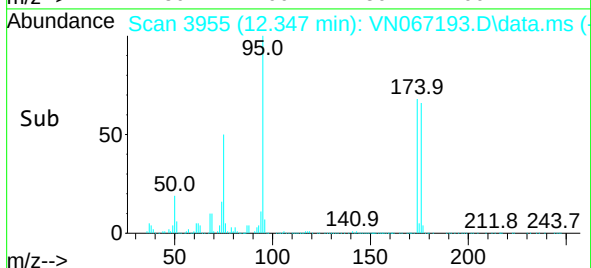
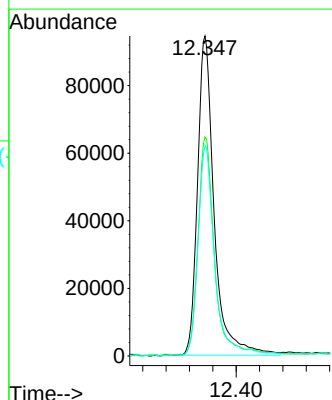
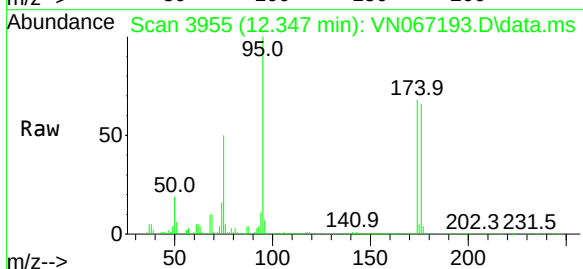
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB136697ZHE#10

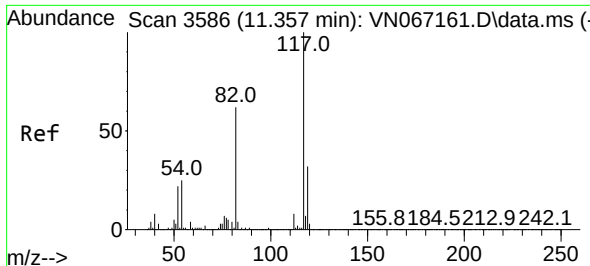
Tgt Ion: 43 Resp: 389257  
Ion Ratio Lower Upper  
43 100  
58 19.6 29.8 89.5#



#62  
4-Bromofluorobenzene  
Concen: 52.16 ug/l  
RT: 12.347 min Scan# 3955  
Delta R.T. -0.008 min  
Lab File: VN067193.D  
Acq: 28 May 2021 19:09

Tgt Ion: 95 Resp: 186998  
Ion Ratio Lower Upper  
95 100  
174 65.9 0.0 182.8  
176 63.7 0.0 176.6

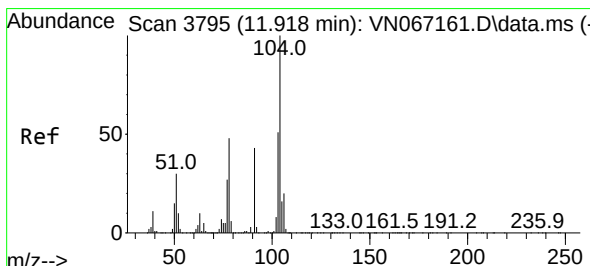
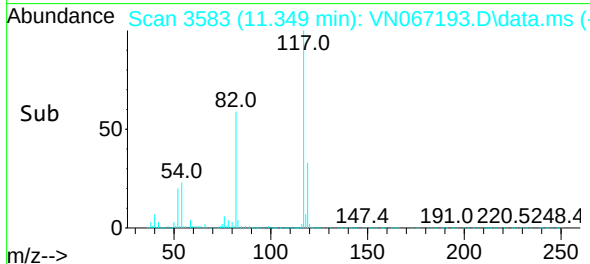
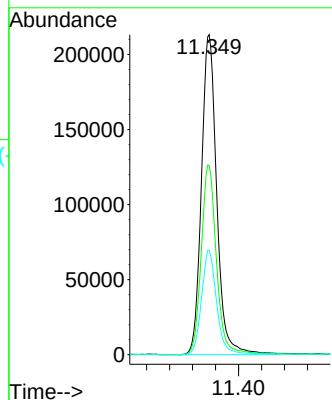
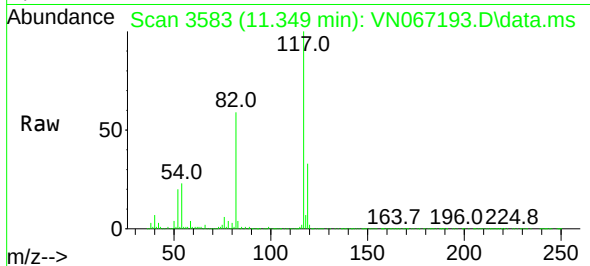




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.349 min Scan# 3583  
Delta R.T. -0.008 min  
Lab File: VN067193.D  
Acq: 28 May 2021 19:09

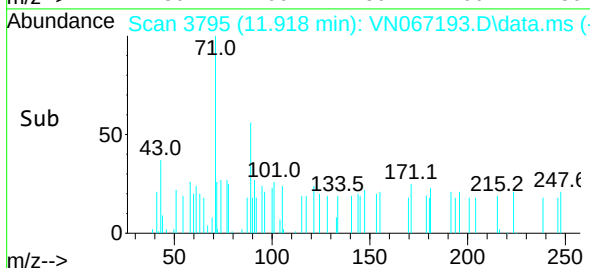
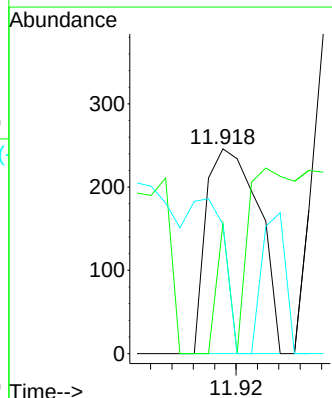
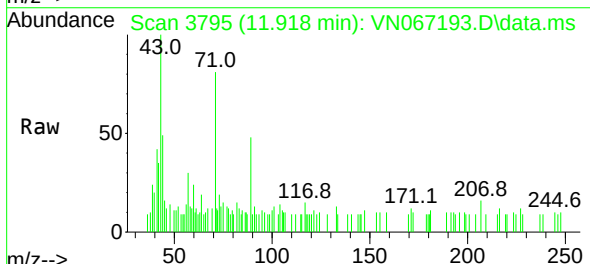
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB136697ZHE#10

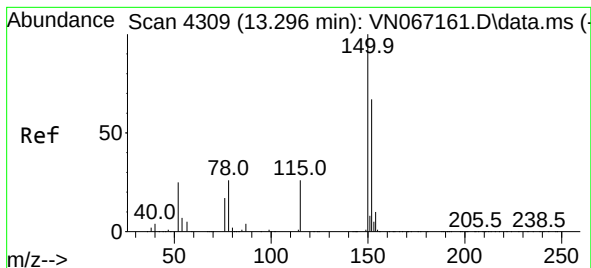
Tgt Ion:117 Resp: 394895  
Ion Ratio Lower Upper  
117 100  
82 59.2 42.2 63.2  
119 32.6 25.8 38.6



#70  
Styrene  
Concen: 2.52 ug/l  
RT: 11.918 min Scan# 3795  
Delta R.T. -0.000 min  
Lab File: VN067193.D  
Acq: 28 May 2021 19:09

Tgt Ion:104 Resp: 168  
Ion Ratio Lower Upper  
104 100  
78 154.8 37.7 56.5#  
103 31.0 44.2 66.4#

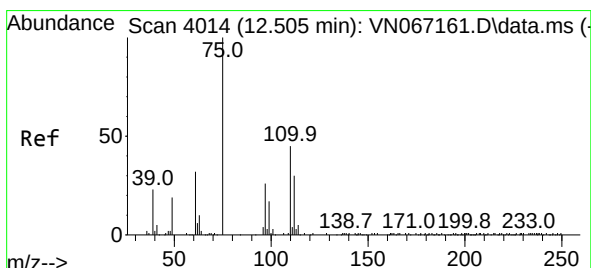
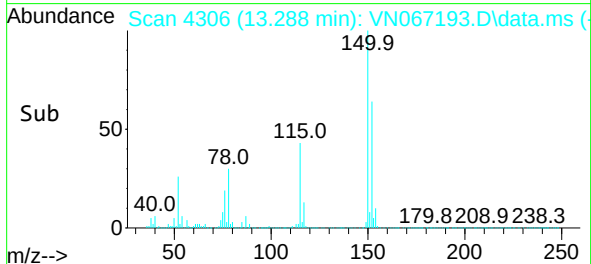
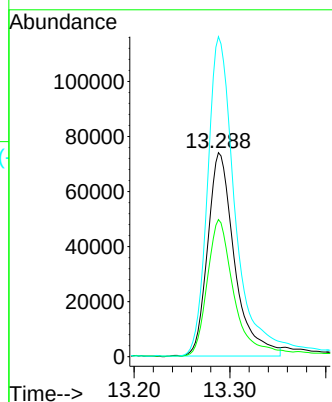
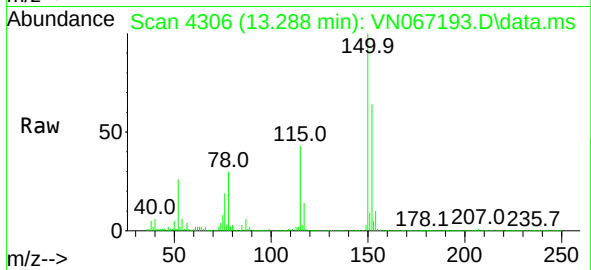




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.288 min Scan# 4306  
Delta R.T. -0.008 min  
Lab File: VN067193.D  
Acq: 28 May 2021 19:09

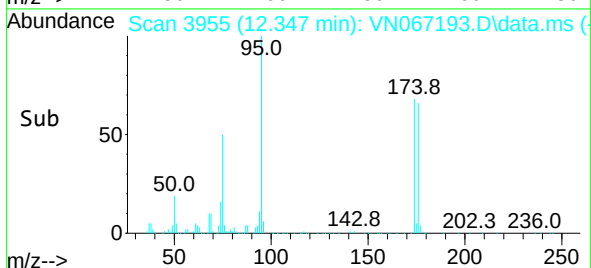
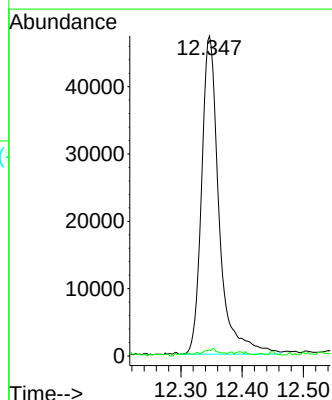
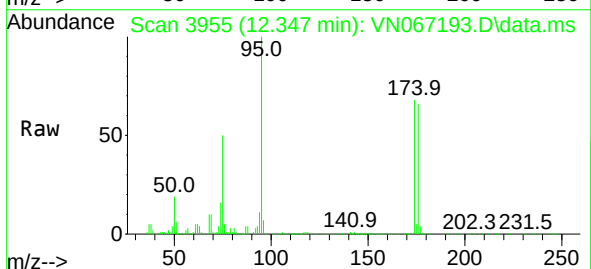
Instrument :  
MSVOA\_N  
ClientSampleId :  
PB136697ZHE#10

Tgt Ion:152 Resp: 144096  
Ion Ratio Lower Upper  
152 100  
115 67.4 27.0 80.8  
150 167.4 0.0 350.2

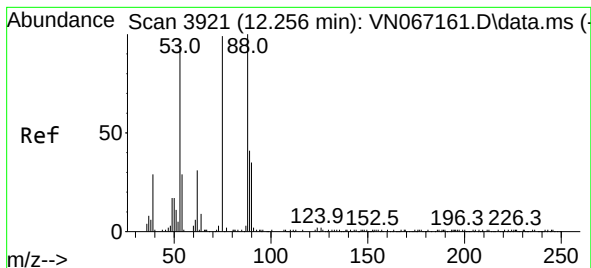


#76  
1,2,3-Trichloropropane  
Concen: 23.36 ug/l  
RT: 12.347 min Scan# 3955  
Delta R.T. -0.158 min  
Lab File: VN067193.D  
Acq: 28 May 2021 19:09

Tgt Ion: 75 Resp: 93706  
Ion Ratio Lower Upper  
75 100  
77 1.1 0.0 0.0#



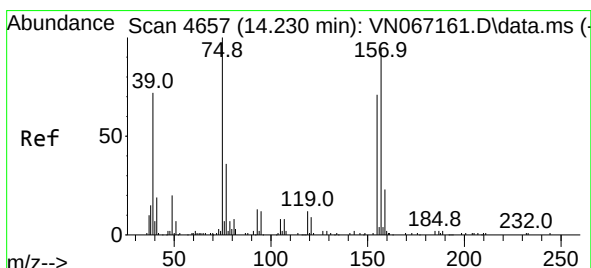
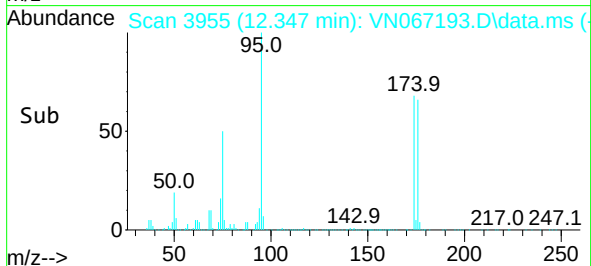
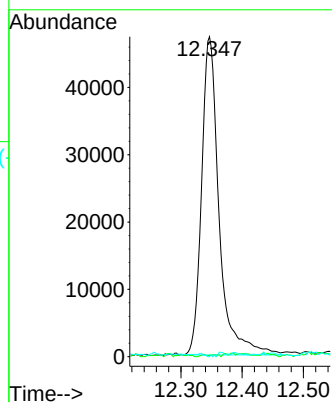
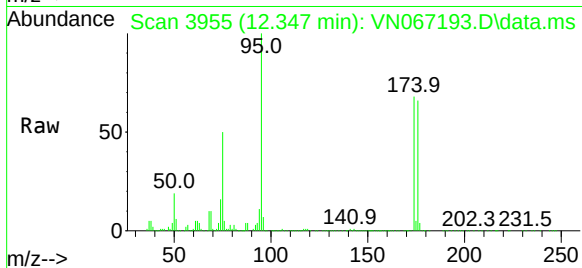




#81  
trans-1,4-Dichloro-2-butene  
Concen: 66.29 ug/l  
RT: 12.347 min Scan# 3955  
Delta R.T. 0.091 min  
Lab File: VN067193.D  
Acq: 28 May 2021 19:09

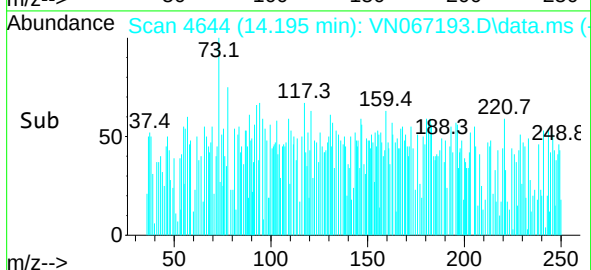
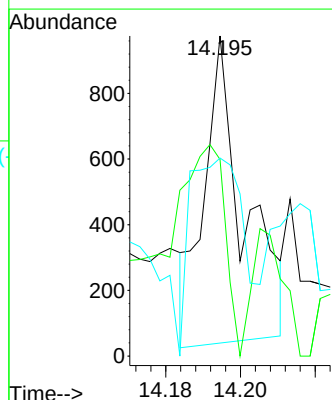
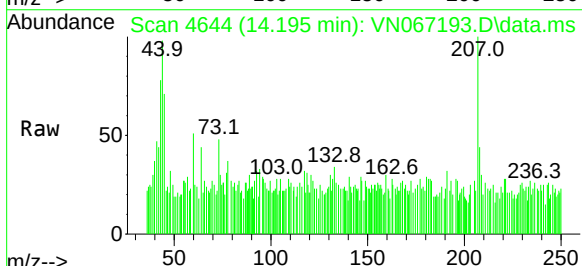
Instrument :  
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ClientSampleId :  
PB136697ZHE#10

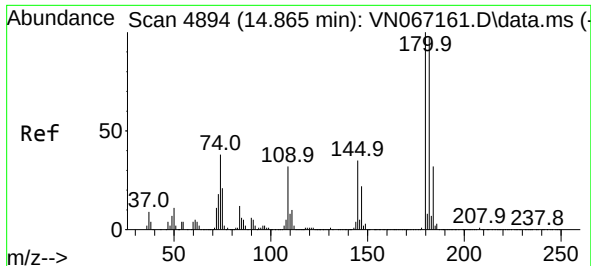
Tgt Ion: 75 Resp: 93706  
Ion Ratio Lower Upper  
75 100  
53 0.3 66.3 99.5#  
89 0.0 39.5 59.3#



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 0.89 ug/l  
RT: 14.195 min Scan# 4644  
Delta R.T. -0.035 min  
Lab File: VN067193.D  
Acq: 28 May 2021 19:09

Tgt Ion: 75 Resp: 694  
Ion Ratio Lower Upper  
75 100  
155 113.4 49.9 149.7  
157 88.8 63.8 191.4

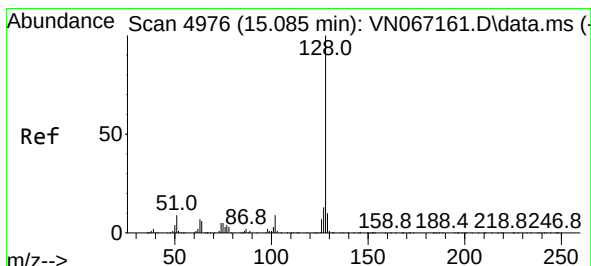
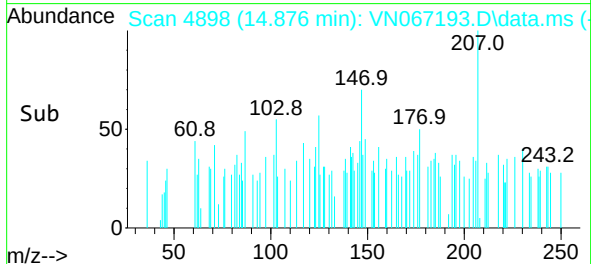
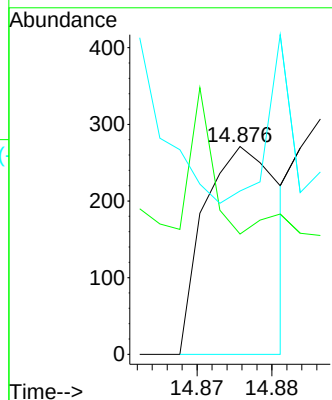
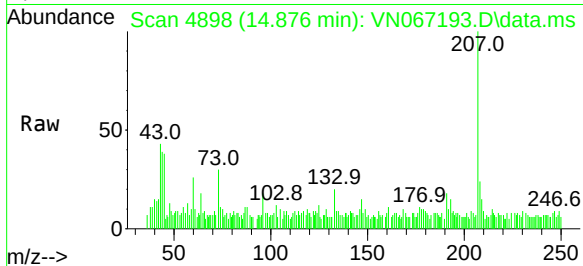




#93  
1,2,4-Trichlorobenzene  
Concen: 3.33 ug/l  
RT: 14.876 min Scan# 4898  
Delta R.T. 0.011 min  
Lab File: VN067193.D  
Acq: 28 May 2021 19:09

Instrument :  
MSVOA\_N  
ClientSampleId :  
PB136697ZHE#10

Tgt Ion:180 Resp: 187  
Ion Ratio Lower Upper  
180 100  
182 59.4 47.3 141.8  
145 35.3 14.0 42.0



#95  
Naphthalene  
Concen: 3.87 ug/l  
RT: 15.085 min Scan# 4976  
Delta R.T. -0.000 min  
Lab File: VN067193.D  
Acq: 28 May 2021 19:09

Tgt Ion:128 Resp: 49  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.2 15.2#  
129 0.0 8.6 13.0#

