

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN061121\  
 Data File : VN067311.D  
 Acq On : 12 Jun 2021 2:48  
 Operator : JC/MD  
 Sample : M2703-02  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 210609007-03-TRIP-BLANK

Quant Time: Jun 12 09:29:11 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N061121W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Jun 12 09:13:15 2021  
 Response via : Initial Calibration

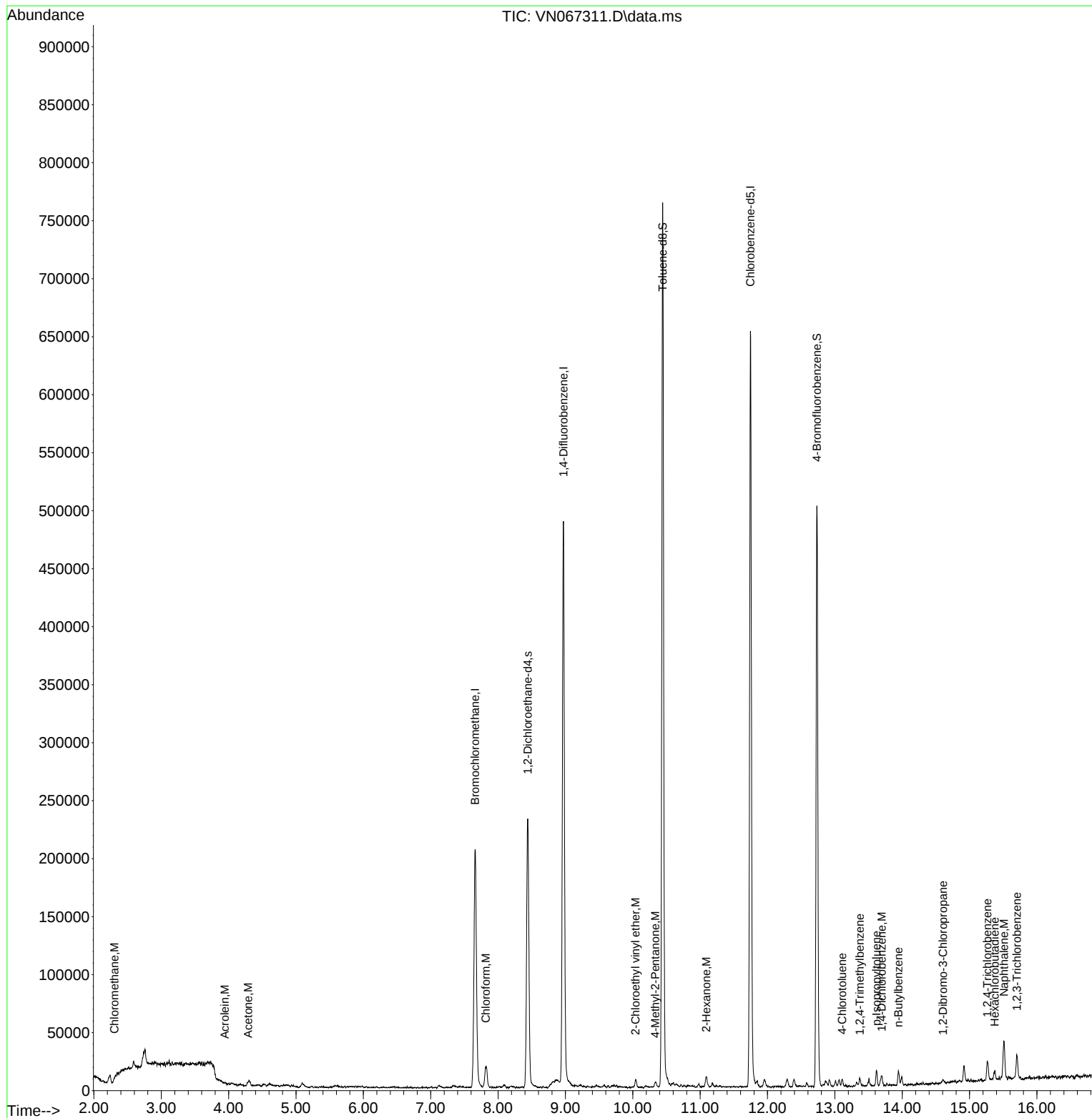
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Bromochloromethane         | 7.659  | 128   | 65054    | 30.000   | ug/l       | 0.00     |
| 28) 1,4-Difluorobenzene       | 8.971  | 114   | 392715   | 30.000   | ug/l       | 0.00     |
| 57) Chlorobenzene-d5          | 11.746 | 117   | 348170   | 30.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 27) 1,2-Dichloroethane-d4     | 8.440  | 65    | 209909   | 30.704   | ug/l       | 0.00     |
| Spiked Amount                 | 30.000 | Range | 91 - 110 | Recovery | = 102.333% |          |
| 60) 4-Bromofluorobenzene      | 12.733 | 95    | 189678   | 28.218   | ug/l       | 0.00     |
| Spiked Amount                 | 30.000 | Range | 63 - 112 | Recovery | = 94.067%  |          |
| 63) Toluene-d8                | 10.443 | 98    | 513605   | 30.932   | ug/l       | 0.00     |
| Spiked Amount                 | 30.000 | Range | 91 - 112 | Recovery | = 103.100% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 3) Chloromethane              | 2.303  | 50    | 1406     | 0.270    | ug/l       | 97       |
| 13) Acrolein                  | 3.942  | 56    | 149      | 0.214    | ug/l       | 83       |
| 15) Acetone                   | 4.288  | 58    | 339      | 0.552    | ug/l #     | 1        |
| 25) Chloroform                | 7.817  | 83    | 17864    | 1.893    | ug/l       | 96       |
| 55) 2-Chloroethyl vinyl ether | 10.041 | 63    | 2835     | 1.286    | ug/l #     | 91       |
| 58) 4-Methyl-2-Pentanone      | 10.336 | 43    | 3448     | 0.451    | ug/l #     | 90       |
| 59) 2-Hexanone                | 11.092 | 43    | 6896     | 1.246    | ug/l #     | 73       |
| 78) 4-Chlorotoluene           | 13.109 | 91    | 4410     | 0.266    | ug/l       | 98       |
| 80) 1,2,4-Trimethylbenzene    | 13.372 | 105   | 3978     | 0.217    | ug/l #     | 76       |
| 82) p-Isopropyltoluene        | 13.618 | 119   | 3967     | 0.237    | ug/l       | 74       |
| 84) 1,4-Dichlorobenzene       | 13.696 | 146   | 2981     | 0.361    | ug/l #     | 75       |
| 85) n-Butylbenzene            | 13.946 | 91    | 7033     | 0.452    | ug/l       | 95       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.605 | 75    | 1338     | 0.791    | ug/l #     | 62       |
| 89) 1,2,4-Trichlorobenzene    | 15.265 | 180   | 4706     | 1.151    | ug/l       | 99       |
| 90) Hexachlorobutadiene       | 15.373 | 225   | 1228     | 0.566    | ug/l       | 82       |
| 91) Naphthalene               | 15.512 | 128   | 27242    | 1.985    | ug/l #     | 93       |
| 92) 1,2,3-Trichlorobenzene    | 15.702 | 180   | 5588     | 1.406    | ug/l       | 83       |
| -----                         |        |       |          |          |            |          |

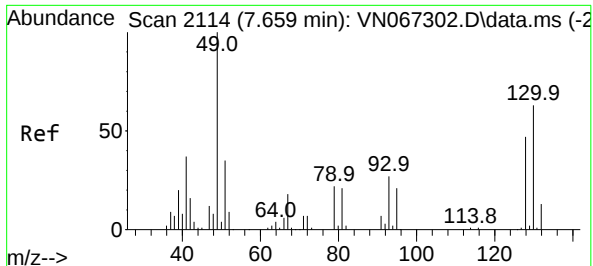
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN061121\  
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Sample : M2703-02  
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ALS Vial : 40 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
210609007-03-TRIP-BLANK

Quant Time: Jun 12 09:29:11 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N061121W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Sat Jun 12 09:13:15 2021  
Response via : Initial Calibration

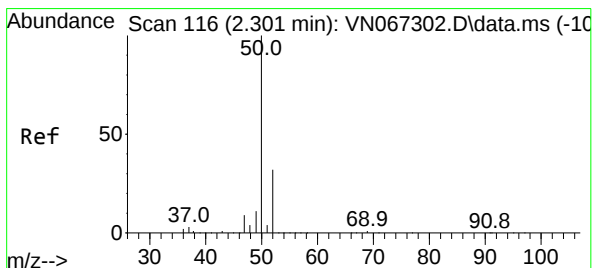
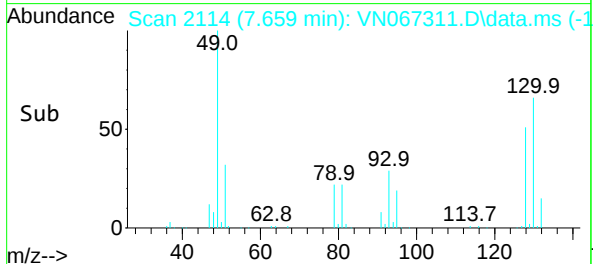
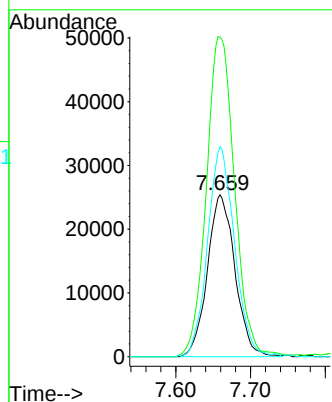
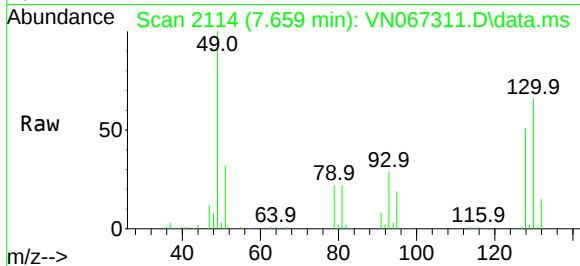




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.659 min Scan# 2114  
Delta R.T. 0.000 min  
Lab File: VN067311.D  
Acq: 12 Jun 2021 2:48

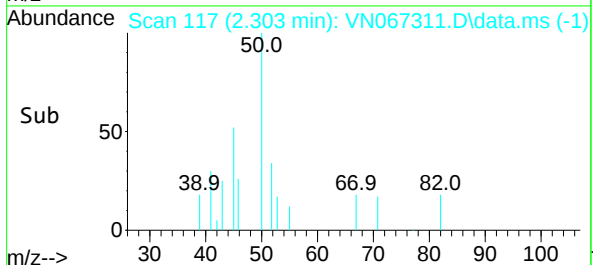
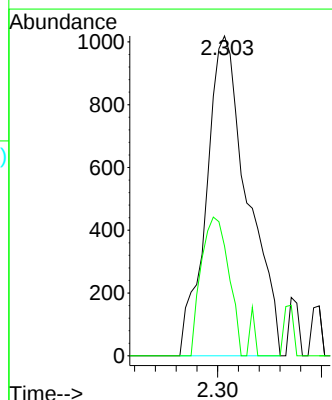
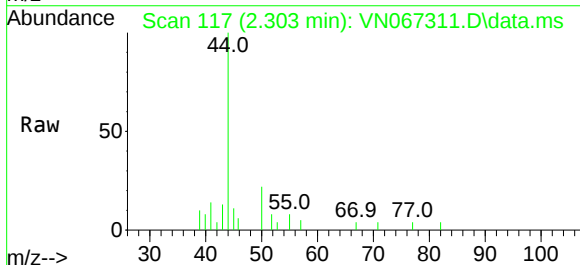
Instrument :  
MSVOA\_N  
ClientSampleId :  
210609007-03-TRIP-BLANK

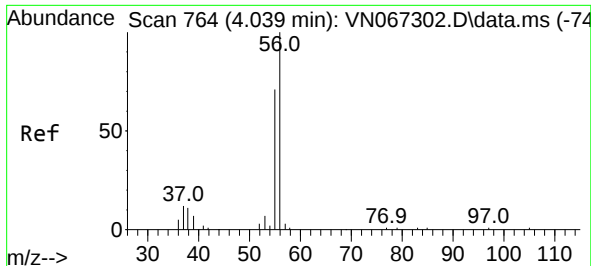
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 49      | 200.6 | 0.0   | 517.5 |
| 130     | 126.7 | 0.0   | 325.8 |



#3  
Chloromethane  
Concen: 0.270 ug/l  
RT: 2.303 min Scan# 117  
Delta R.T. 0.003 min  
Lab File: VN067311.D  
Acq: 12 Jun 2021 2:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 50      | 100   |       |       |
| 52      | 34.3  | 26.0  | 39.0  |

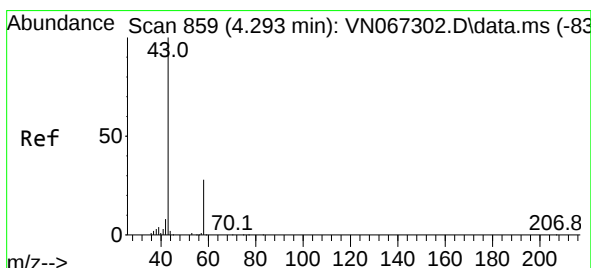
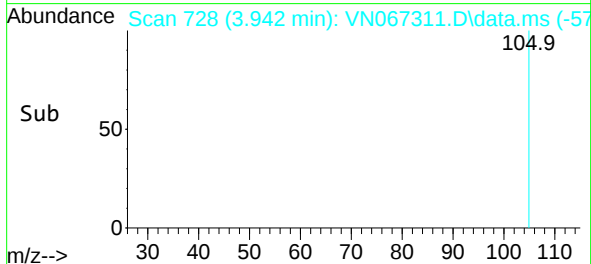
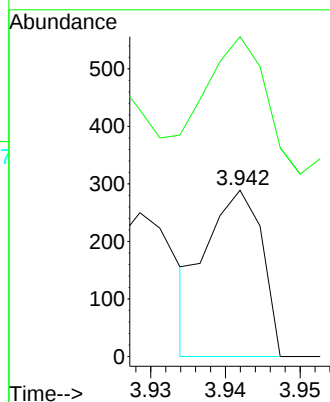
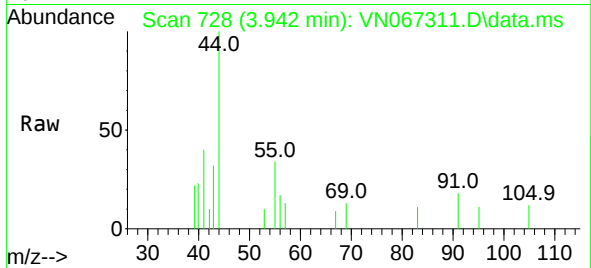




#13  
Acrolein  
Concen: 0.214 ug/l  
RT: 3.942 min Scan# 728  
Delta R.T. -0.097 min  
Lab File: VN067311.D  
Acq: 12 Jun 2021 2:48

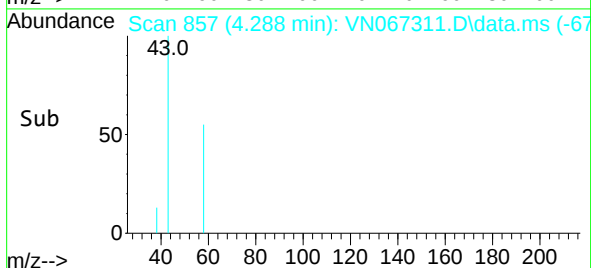
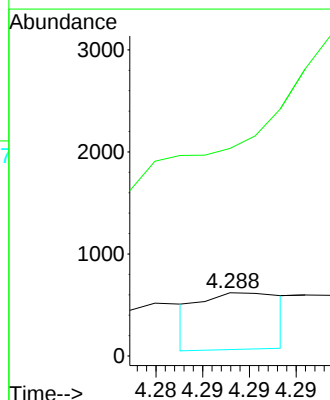
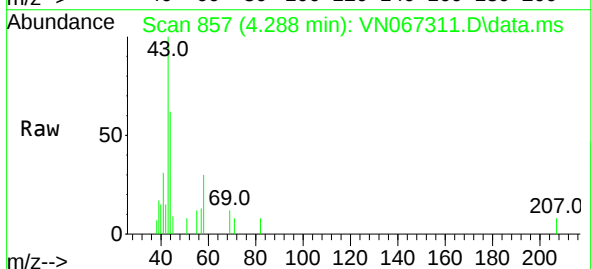
Instrument :  
MSVOA\_N  
ClientSampleId :  
210609007-03-TRIP-BLANK

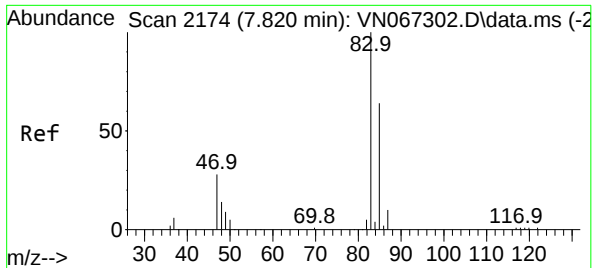
Tgt Ion: 56 Resp: 149  
Ion Ratio Lower Upper  
56 100  
55 85.9 57.5 86.3



#15  
Acetone  
Concen: 0.552 ug/l  
RT: 4.288 min Scan# 857  
Delta R.T. -0.005 min  
Lab File: VN067311.D  
Acq: 12 Jun 2021 2:48

Tgt Ion: 58 Resp: 339  
Ion Ratio Lower Upper  
58 100  
43 61.3 289.6 434.4#

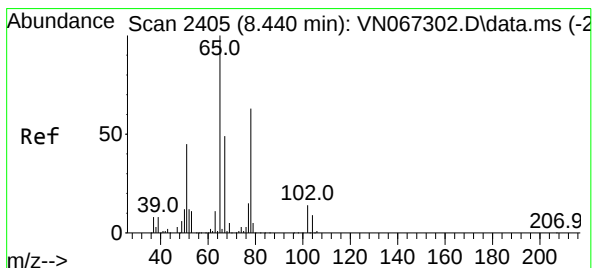
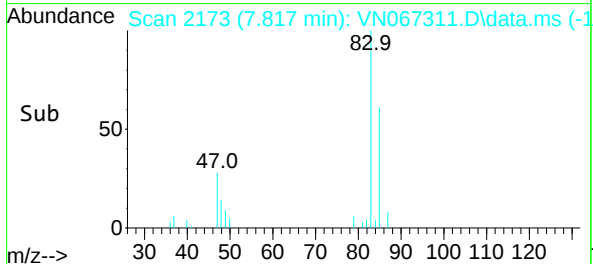
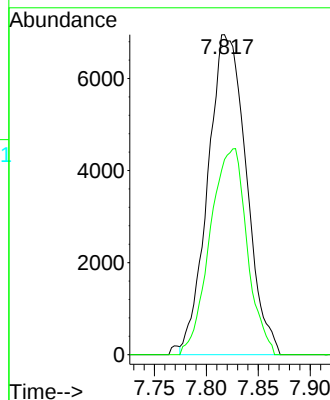
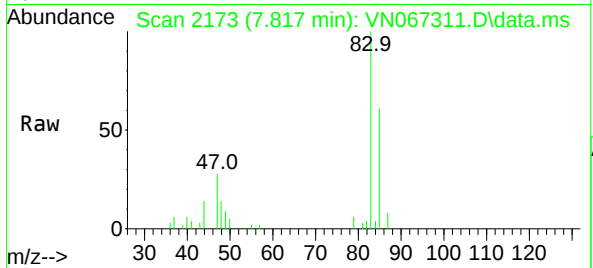




#25  
Chloroform  
Concen: 1.893 ug/l  
RT: 7.817 min Scan# 2173  
Delta R.T. -0.003 min  
Lab File: VN067311.D  
Acq: 12 Jun 2021 2:48

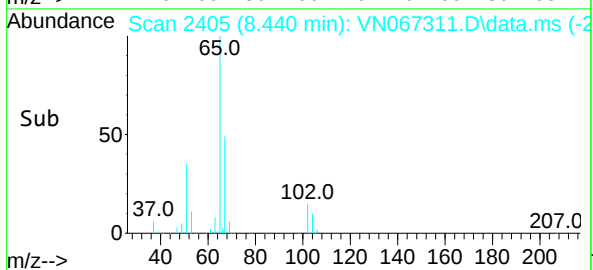
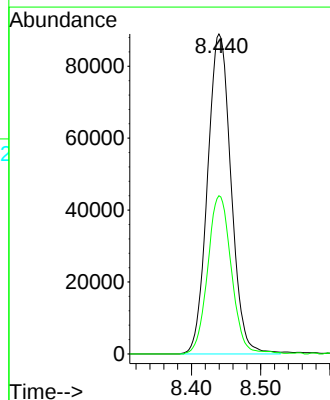
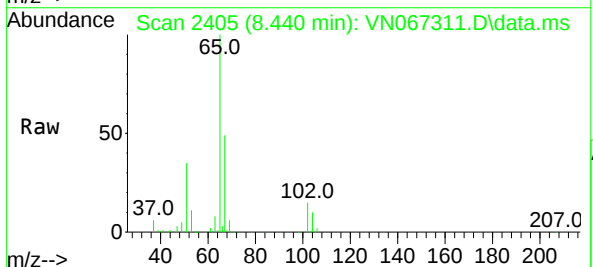
Instrument :  
MSVOA\_N  
ClientSampleId :  
210609007-03-TRIP-BLANK

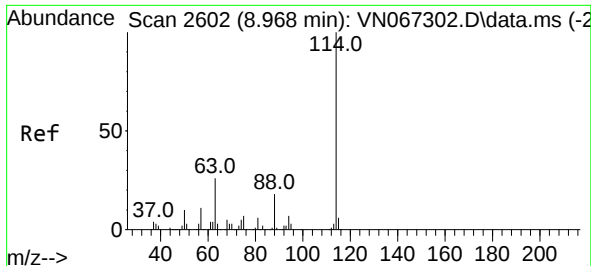
Tgt Ion: 83 Resp: 17864  
Ion Ratio Lower Upper  
83 100  
85 61.0 51.5 77.3



#27  
1,2-Dichloroethane-d4  
Concen: 30.704 ug/l  
RT: 8.440 min Scan# 2405  
Delta R.T. -0.000 min  
Lab File: VN067311.D  
Acq: 12 Jun 2021 2:48

Tgt Ion: 65 Resp: 209909  
Ion Ratio Lower Upper  
65 100  
67 49.5 39.8 59.8



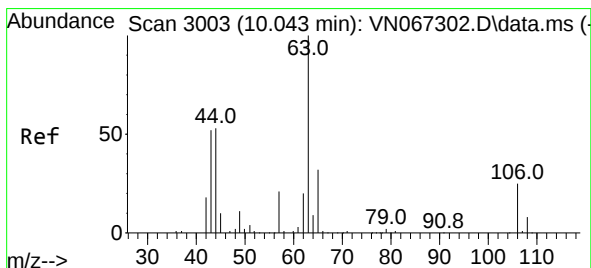
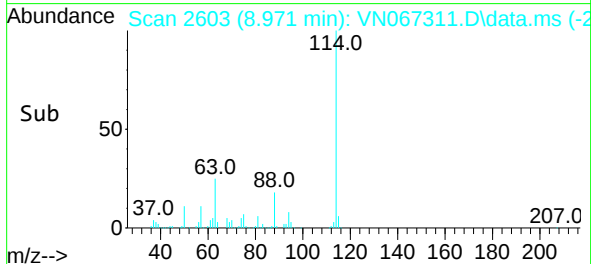
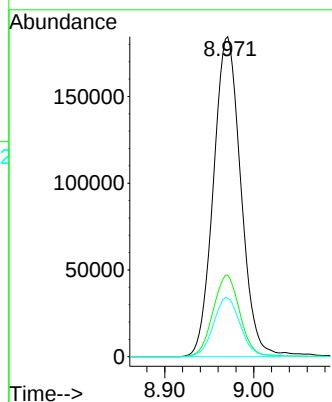
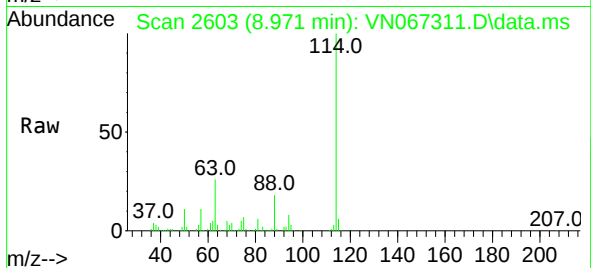


#28

1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 8.971 min Scan# 2603  
Delta R.T. 0.003 min  
Lab File: VN067311.D  
Acq: 12 Jun 2021 2:48

Instrument :  
MSVOA\_N  
ClientSampleId :  
210609007-03-TRIP-BLANK

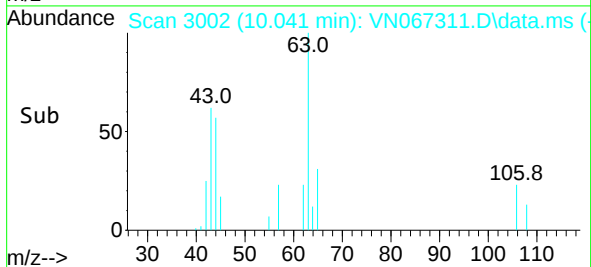
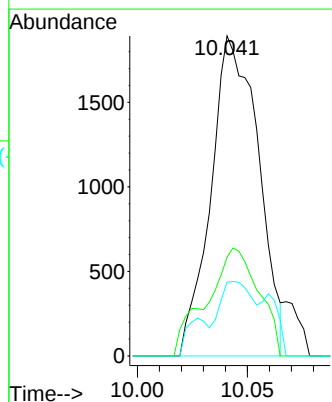
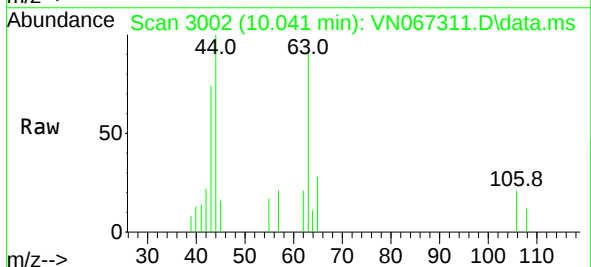
Tgt Ion:114 Resp: 392715  
Ion Ratio Lower Upper  
114 100  
63 24.9 20.3 30.5  
88 18.2 14.6 22.0

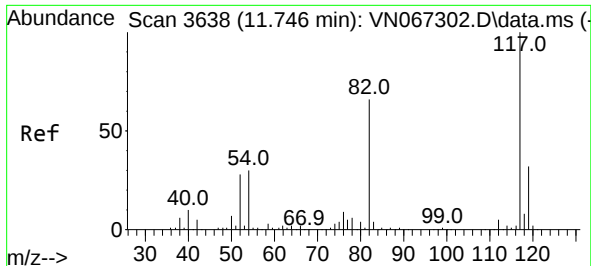


#55

2-Chloroethyl vinyl ether  
Concen: 1.286 ug/l  
RT: 10.041 min Scan# 3002  
Delta R.T. -0.003 min  
Lab File: VN067311.D  
Acq: 12 Jun 2021 2:48

Tgt Ion: 63 Resp: 2835  
Ion Ratio Lower Upper  
63 100  
65 30.2 25.6 38.4  
106 16.5 20.0 30.0#

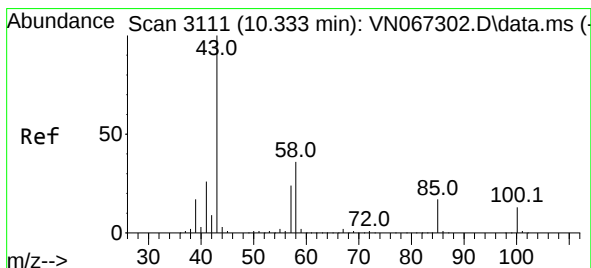
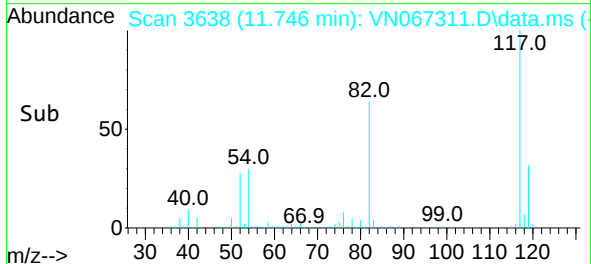
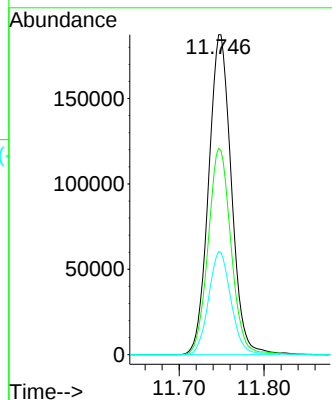
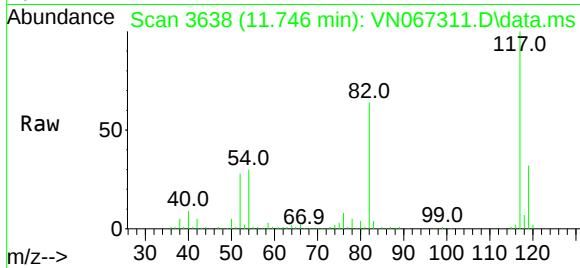




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.746 min Scan# 3638  
Delta R.T. -0.000 min  
Lab File: VN067311.D  
Acq: 12 Jun 2021 2:48

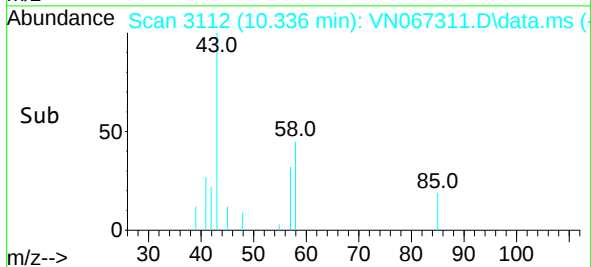
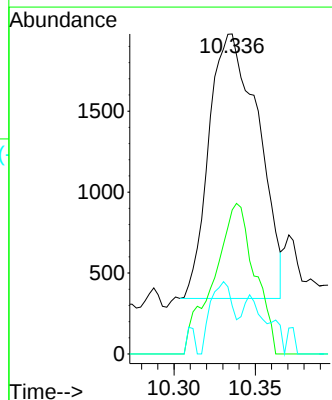
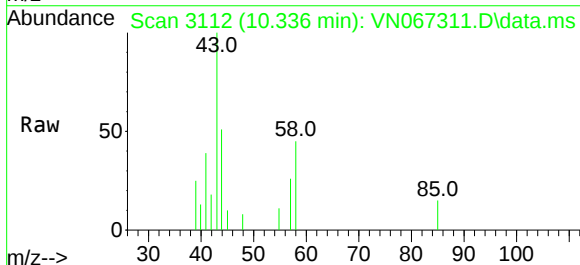
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ClientSampleId :  
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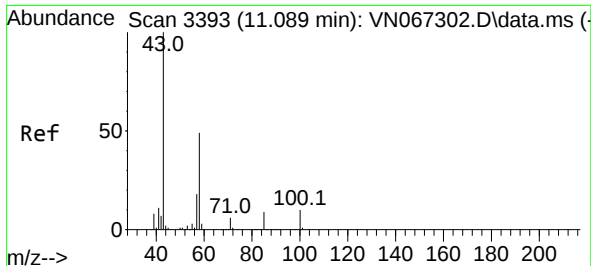
Tgt Ion:117 Resp: 348170  
Ion Ratio Lower Upper  
117 100  
82 64.5 52.5 78.7  
119 31.7 25.8 38.8



#58  
4-Methyl-2-Pentanone  
Concen: 0.451 ug/l  
RT: 10.336 min Scan# 3112  
Delta R.T. 0.003 min  
Lab File: VN067311.D  
Acq: 12 Jun 2021 2:48

Tgt Ion: 43 Resp: 3448  
Ion Ratio Lower Upper  
43 100  
58 42.6 29.0 43.4  
85 12.5 13.2 19.8#

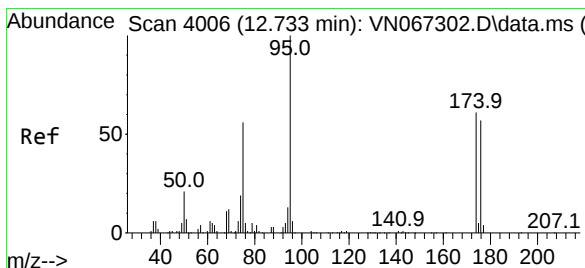
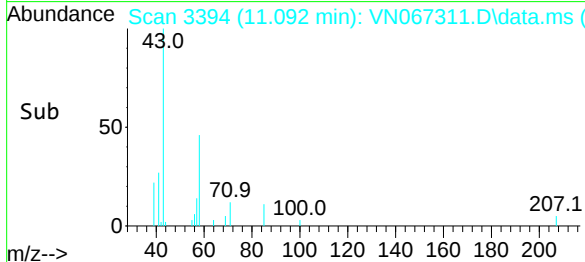
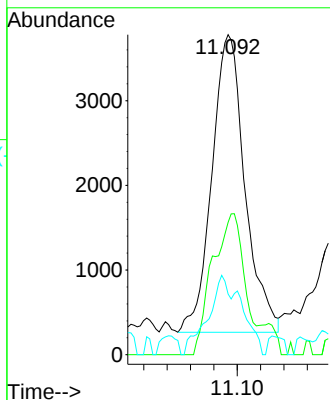
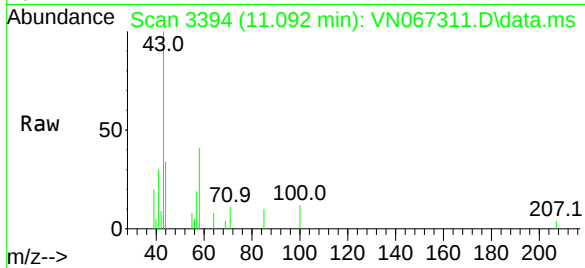




#59  
2-Hexanone  
Concen: 1.246 ug/l  
RT: 11.092 min Scan# 3394  
Delta R.T. 0.003 min  
Lab File: VN067311.D  
Acq: 12 Jun 2021 2:48

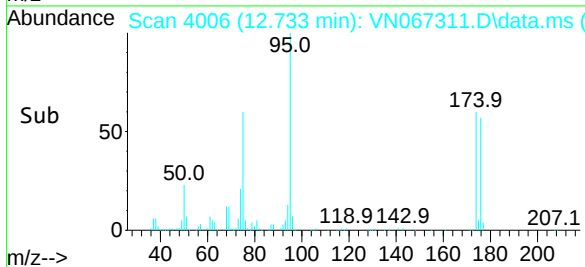
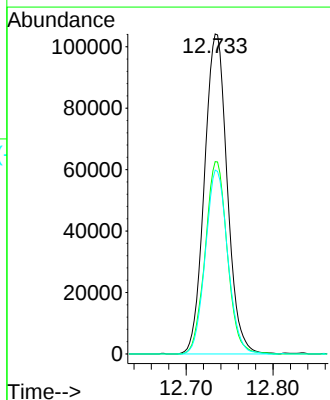
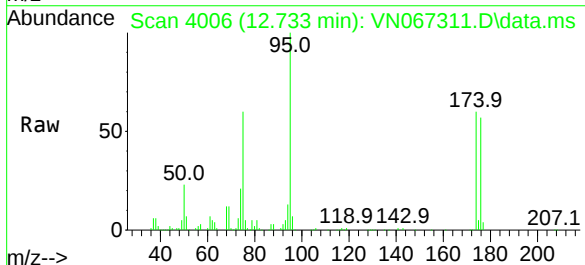
Instrument :  
MSVOA\_N  
ClientSampleId :  
210609007-03-TRIP-BLANK

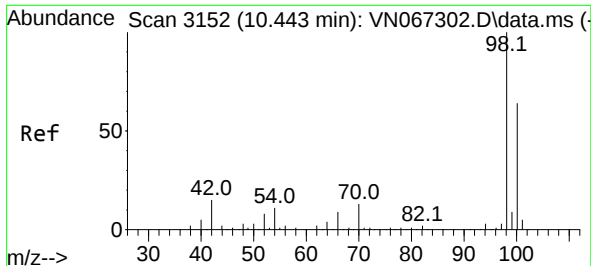
Tgt Ion: 43 Resp: 6896  
Ion Ratio Lower Upper  
43 100  
58 24.3 39.4 59.0#  
57 17.7 14.4 21.6



#60  
4-Bromofluorobenzene  
Concen: 28.218 ug/l  
RT: 12.733 min Scan# 4006  
Delta R.T. -0.000 min  
Lab File: VN067311.D  
Acq: 12 Jun 2021 2:48

Tgt Ion: 95 Resp: 189678  
Ion Ratio Lower Upper  
95 100  
174 58.2 47.7 71.5  
176 56.3 45.7 68.5

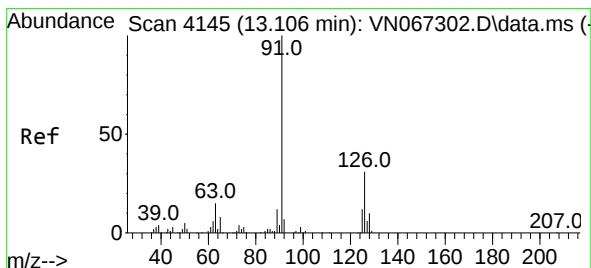
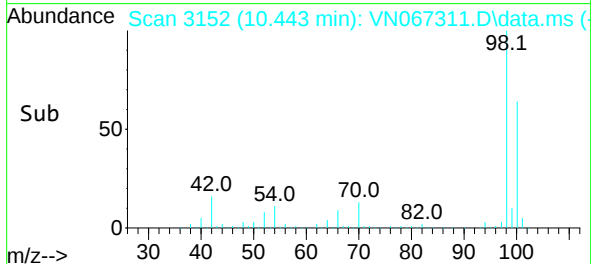
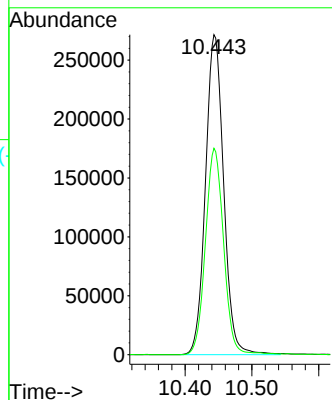
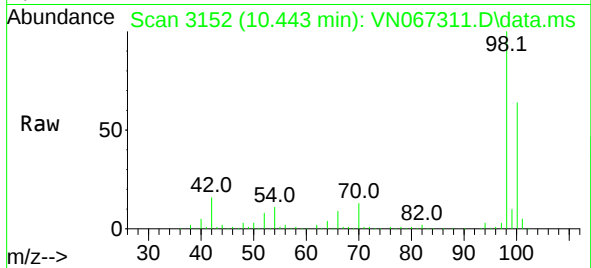




#63  
Toluene-d8  
Concen: 30.932 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. -0.000 min  
Lab File: VN067311.D  
Acq: 12 Jun 2021 2:48

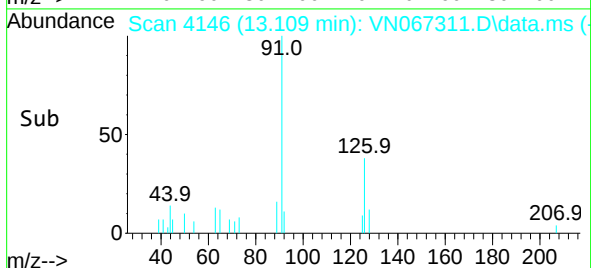
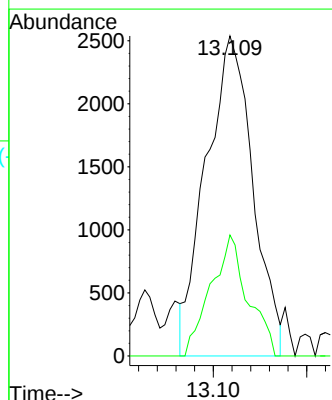
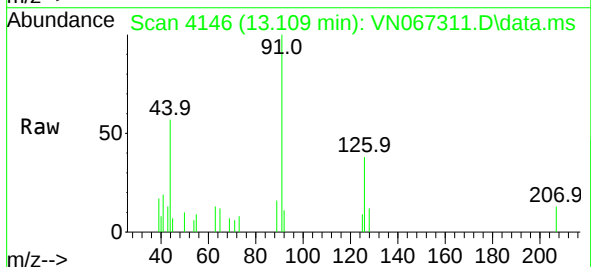
Instrument :  
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ClientSampleId :  
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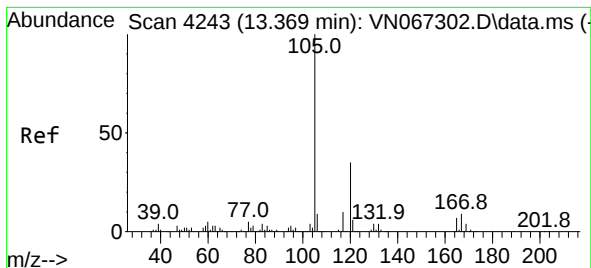
Tgt Ion: 98 Resp: 513605  
Ion Ratio Lower Upper  
98 100  
100 64.2 51.2 76.8



#78  
4-Chlorotoluene  
Concen: 0.266 ug/l  
RT: 13.109 min Scan# 4146  
Delta R.T. 0.003 min  
Lab File: VN067311.D  
Acq: 12 Jun 2021 2:48

Tgt Ion: 91 Resp: 4410  
Ion Ratio Lower Upper  
91 100  
126 30.0 0.0 57.6





#80

1,2,4-Trimethylbenzene

Concen: 0.217 ug/l

RT: 13.372 min Scan# 4244

Delta R.T. 0.003 min

Lab File: VN067311.D

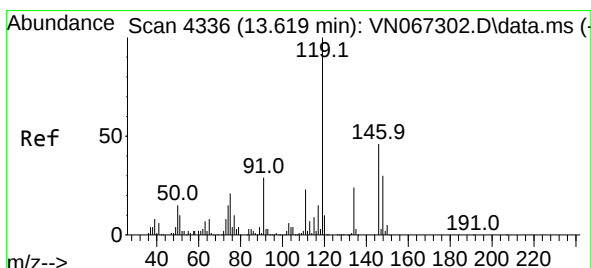
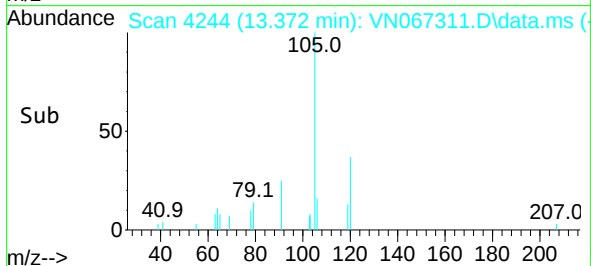
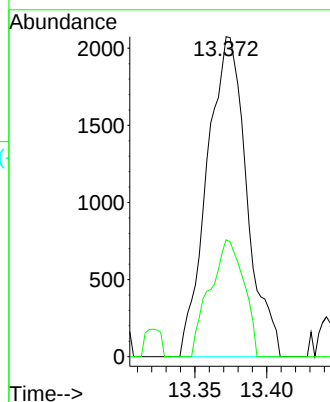
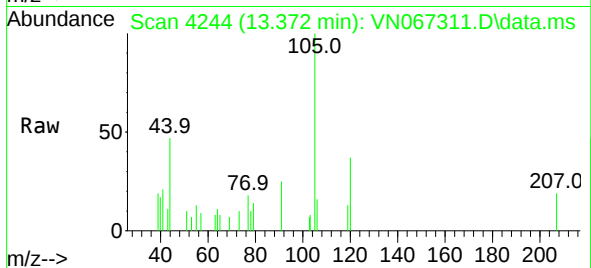
Acq: 12 Jun 2021 2:48

Tgt Ion:105 Resp: 3978

Ion Ratio Lower Upper

105 100

120 31.2 0.0 0.4#



#82

p-Isopropyltoluene

Concen: 0.237 ug/l

RT: 13.618 min Scan# 4336

Delta R.T. -0.000 min

Lab File: VN067311.D

Acq: 12 Jun 2021 2:48

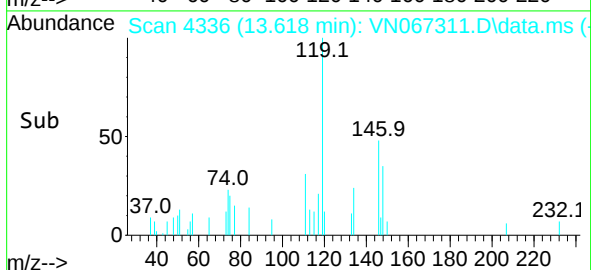
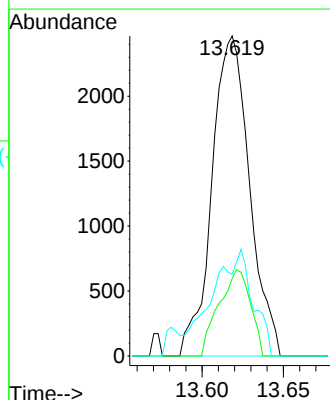
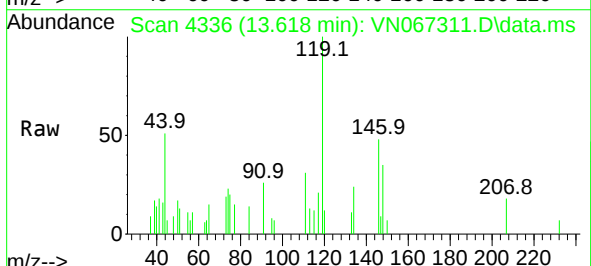
Tgt Ion:119 Resp: 3967

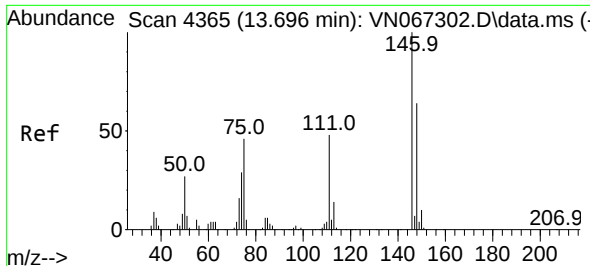
Ion Ratio Lower Upper

119 100

134 22.4 0.0 49.0

91 6.2 0.0 59.6

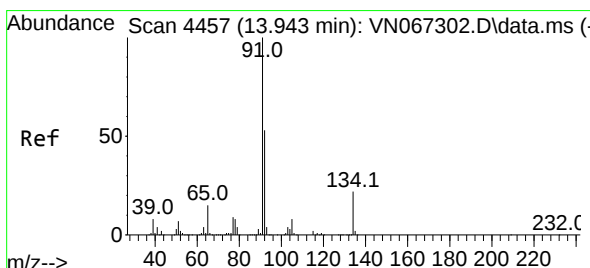
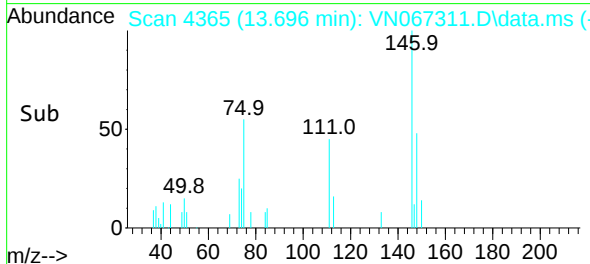
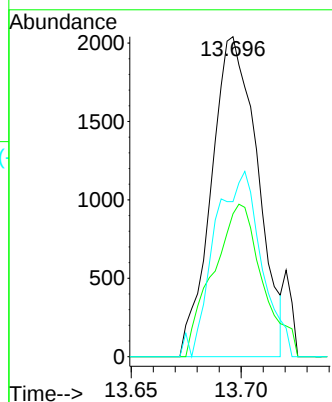
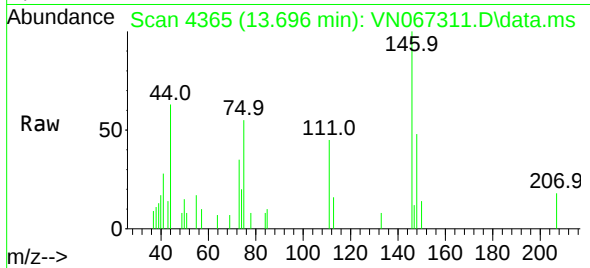




#84  
1,4-Dichlorobenzene  
Concen: 0.361 ug/l  
RT: 13.696 min Scan# 4365  
Delta R.T. -0.000 min  
Lab File: VN067311.D  
Acq: 12 Jun 2021 2:48

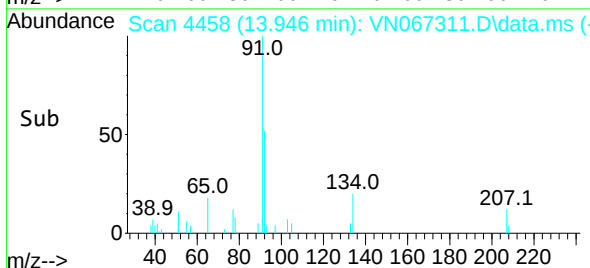
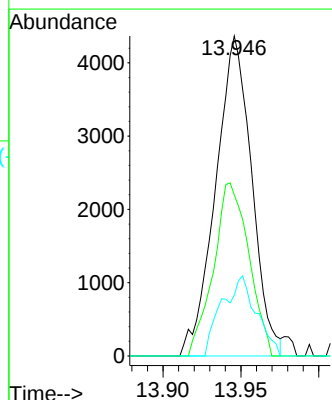
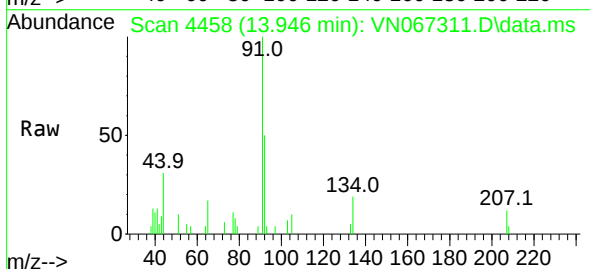
Instrument :  
MSVOA\_N  
ClientSampleId :  
210609007-03-TRIP-BLANK

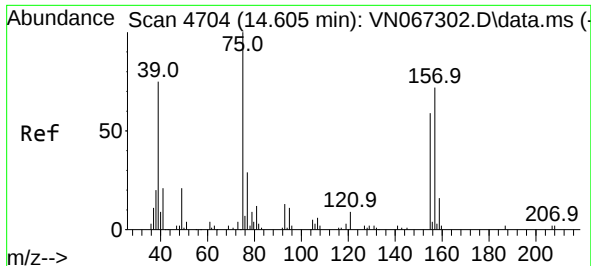
Tgt Ion:146 Resp: 2981  
Ion Ratio Lower Upper  
146 100  
111 49.7 23.6 71.0  
148 31.3 31.8 95.3#



#85  
n-Butylbenzene  
Concen: 0.452 ug/l  
RT: 13.946 min Scan# 4458  
Delta R.T. 0.003 min  
Lab File: VN067311.D  
Acq: 12 Jun 2021 2:48

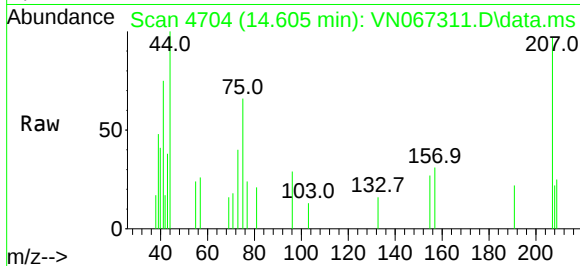
Tgt Ion: 91 Resp: 7033  
Ion Ratio Lower Upper  
91 100  
92 53.0 0.0 103.0  
134 15.5 0.0 43.6



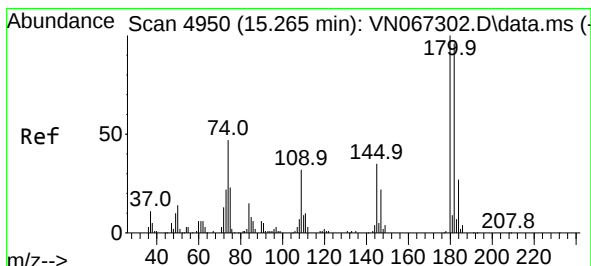
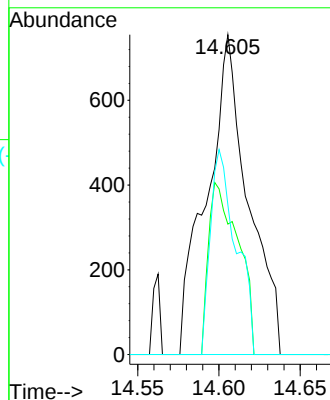
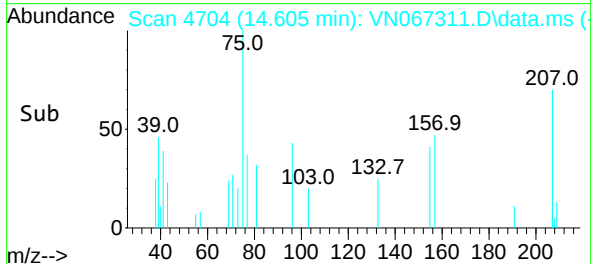


#88  
1,2-Dibromo-3-Chloropropane  
Concen: 0.791 ug/l  
RT: 14.605 min Scan# 4704  
Delta R.T. -0.000 min  
Lab File: VN067311.D  
Acq: 12 Jun 2021 2:48

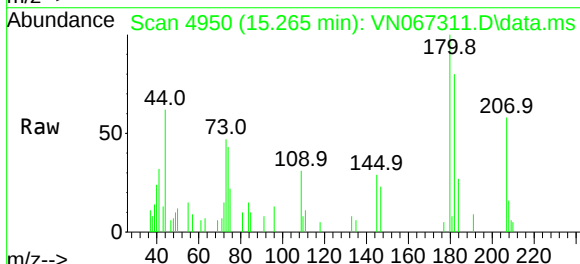
Instrument :  
MSVOA\_N  
ClientSampleId :  
210609007-03-TRIP-BLANK



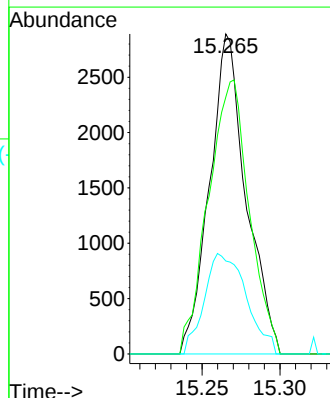
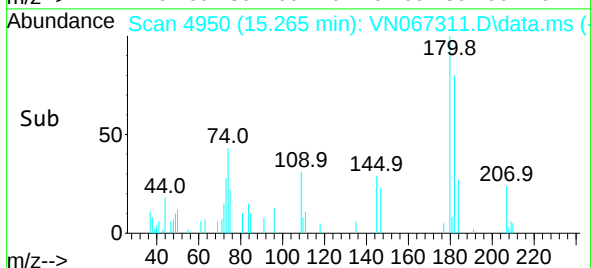
Tgt Ion: 75 Resp: 1338  
Ion Ratio Lower Upper  
75 100  
155 38.5 45.3 67.9#  
157 32.1 58.6 87.8#

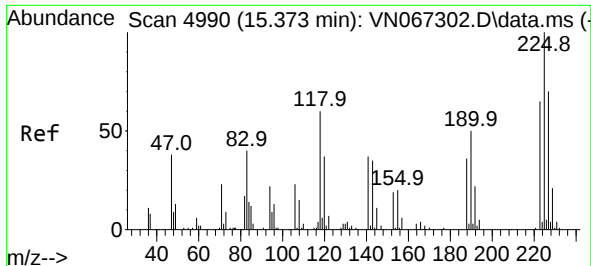


#89  
1,2,4-Trichlorobenzene  
Concen: 1.151 ug/l  
RT: 15.265 min Scan# 4950  
Delta R.T. -0.000 min  
Lab File: VN067311.D  
Acq: 12 Jun 2021 2:48



Tgt Ion: 180 Resp: 4706  
Ion Ratio Lower Upper  
180 100  
182 95.8 75.9 113.9  
145 35.6 28.8 43.2

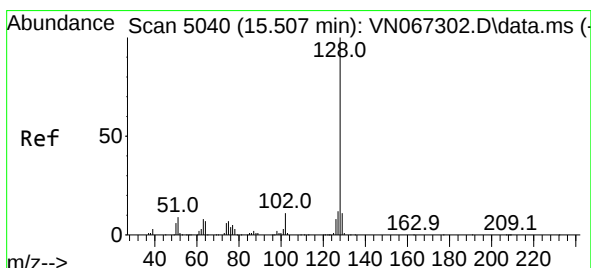
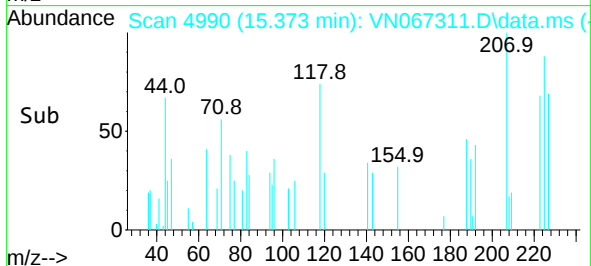
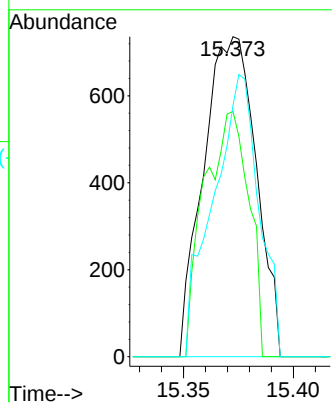
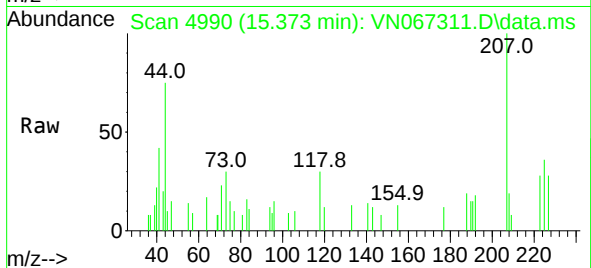




#90  
Hexachlorobutadiene  
Concen: 0.566 ug/l  
RT: 15.373 min Scan# 4990  
Delta R.T. -0.000 min  
Lab File: VN067311.D  
Acq: 12 Jun 2021 2:48

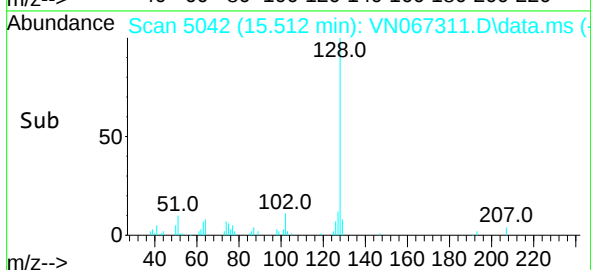
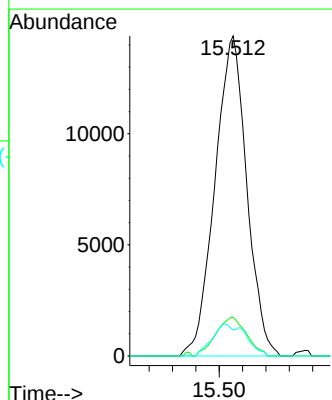
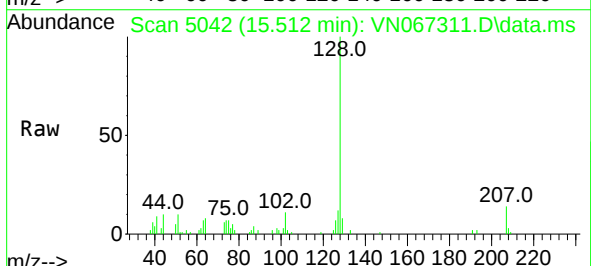
Instrument :  
MSVOA\_N  
ClientSampleId :  
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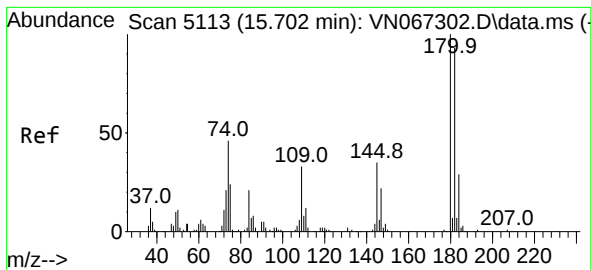
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:225 | Resp: | 1228      |
| Ion Ratio   | Lower | Upper     |
| 225         | 100   |           |
| 223         | 41.3  | 0.0 129.6 |
| 227         | 70.4  | 0.0 131.2 |



#91  
Naphthalene  
Concen: 1.985 ug/l  
RT: 15.512 min Scan# 5042  
Delta R.T. 0.005 min  
Lab File: VN067311.D  
Acq: 12 Jun 2021 2:48

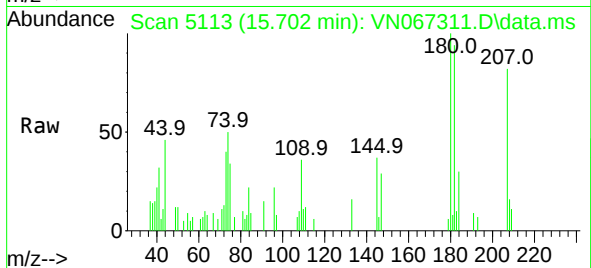
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:128 | Resp: | 27242     |
| Ion Ratio   | Lower | Upper     |
| 128         | 100   |           |
| 127         | 11.7  | 10.1 15.1 |
| 129         | 6.4   | 8.9 13.3# |





#92  
 1,2,3-Trichlorobenzene  
 Concen: 1.406 ug/l  
 RT: 15.702 min Scan# 5113  
 Delta R.T. -0.000 min  
 Lab File: VN067311.D  
 Acq: 12 Jun 2021 2:48

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 210609007-03-TRIP-BLANK



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 5588  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 93.9  | 0.0   | 184.6 |
| 145      | 6.0   | 0.0   | 76.0  |

