

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN071521\  
 Data File : VN067757.D  
 Acq On : 15 Jul 2021 11:10  
 Operator : JC/MD  
 Sample : VN0715WBL01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jul 15 16:12:19 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N071421W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Jul 14 01:19:19 2021  
 Response via : Initial Calibration

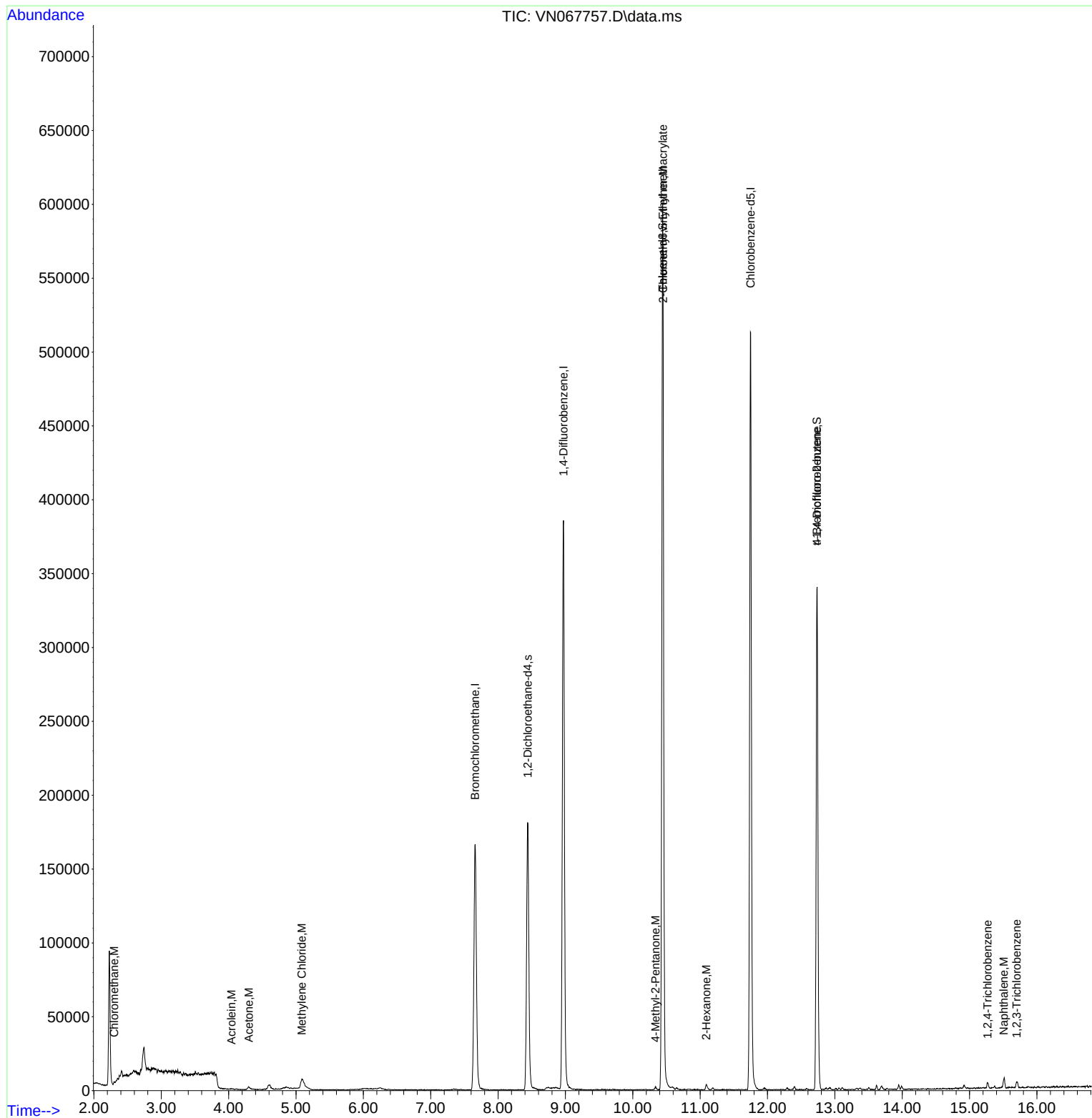
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 7.659  | 128   | 59711    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene       | 8.971  | 114   | 338265   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5          | 11.749 | 117   | 297865   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4     | 8.440  | 65    | 155767   | 32.290   | ug/l   | 0.00     |
| Spiked Amount                 | 30.000 | Range | 91 - 110 | Recovery | =      | 107.633% |
| 60) 4-Bromofluorobenzene      | 12.734 | 95    | 121671   | 25.152   | ug/l   | 0.00     |
| Spiked Amount                 | 30.000 | Range | 63 - 112 | Recovery | =      | 83.833%  |
| 63) Toluene-d8                | 10.443 | 98    | 419002   | 30.584   | ug/l   | 0.00     |
| Spiked Amount                 | 30.000 | Range | 91 - 112 | Recovery | =      | 101.933% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 2.301  | 50    | 1071     | 0.281    | ug/l   | 95       |
| 13) Acrolein                  | 4.041  | 56    | 150      | 0.362    | ug/l # | 1        |
| 15) Acetone                   | 4.299  | 58    | 417      | 0.968    | ug/l # | 11       |
| 18) Methylene Chloride        | 5.085  | 84    | 1741     | 0.434    | ug/l # | 88       |
| 51) Ethyl methacrylate        | 10.448 | 69    | 1624     | 0.252    | ug/l   | 78       |
| 55) 2-Chloroethyl vinyl ether | 10.451 | 63    | 373      | 0.299    | ug/l # | 1        |
| 58) 4-Methyl-2-Pentanone      | 10.339 | 43    | 1212     | 0.237    | ug/l # | 83       |
| 59) 2-Hexanone                | 11.089 | 43    | 2758     | 0.769    | ug/l # | 73       |
| 77) t-1,4-Dichloro-2-butene   | 12.734 | 75    | 68713    | 45.792   | ug/l # | 4        |
| 89) 1,2,4-Trichlorobenzene    | 15.268 | 180   | 1217     | 0.346    | ug/l # | 20       |
| 91) Naphthalene               | 15.507 | 128   | 6061     | 0.606    | ug/l # | 78       |
| 92) 1,2,3-Trichlorobenzene    | 15.700 | 180   | 1857     | 0.551    | ug/l   | 57       |
| -----                         |        |       |          |          |        |          |

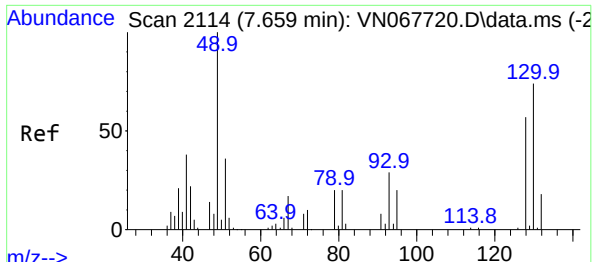
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : VN0715WBL01  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Jul 15 16:12:19 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N071421W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Jul 14 01:19:19 2021  
Response via : Initial Calibration

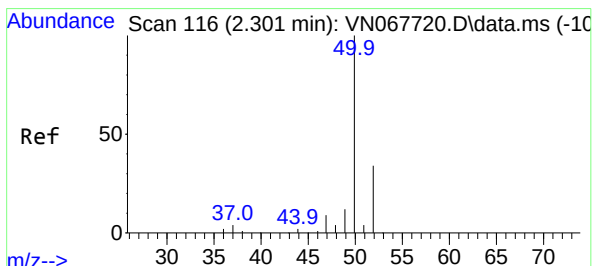
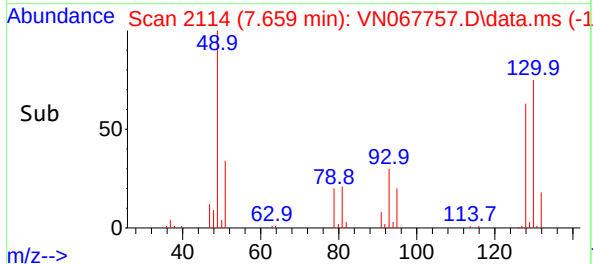
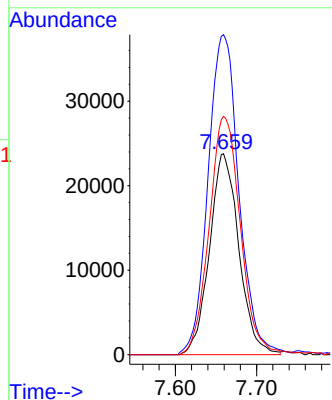
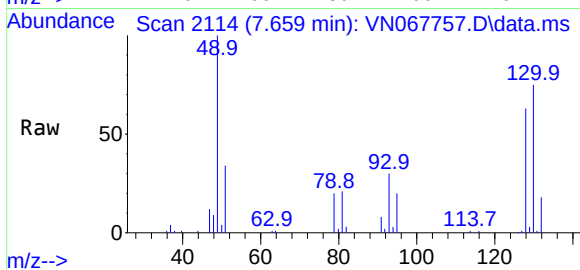




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.659 min Scan# 2114  
Delta R.T. 0.000 min  
Lab File: VN067757.D  
Acq: 15 Jul 2021 11:10

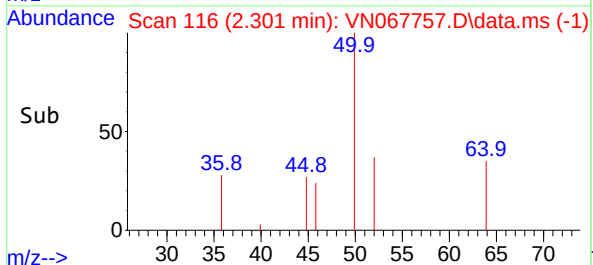
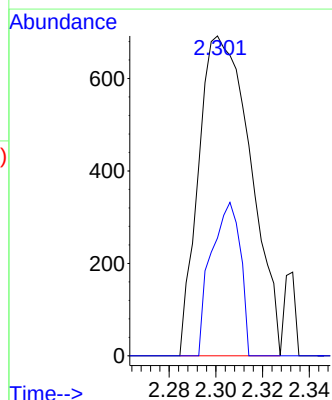
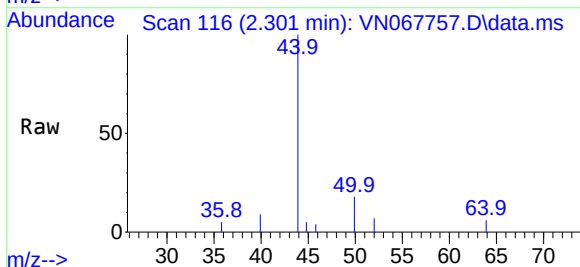
Instrument :  
MSVOA\_N  
ClientSampled :

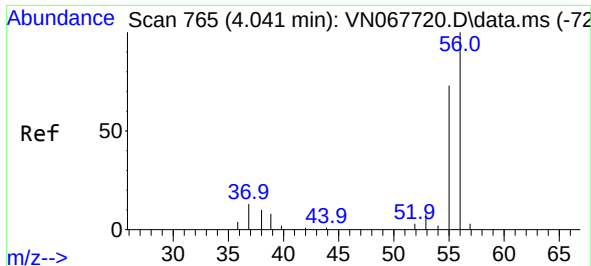
Tgt Ion:128 Resp: 59711  
Ion Ratio Lower Upper  
128 100  
49 167.4 0.0 433.0  
130 125.9 0.0 323.8



#3  
Chloromethane  
Concen: 0.281 ug/l  
RT: 2.301 min Scan# 116  
Delta R.T. -0.000 min  
Lab File: VN067757.D  
Acq: 15 Jul 2021 11:10

Tgt Ion: 50 Resp: 1071  
Ion Ratio Lower Upper  
50 100  
52 36.8 27.2 40.8

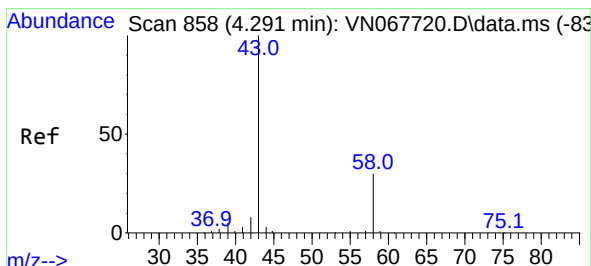
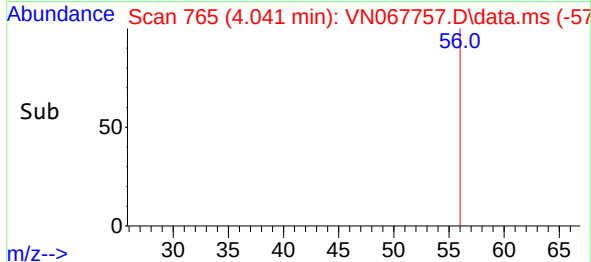
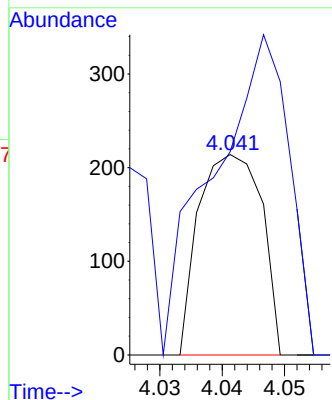
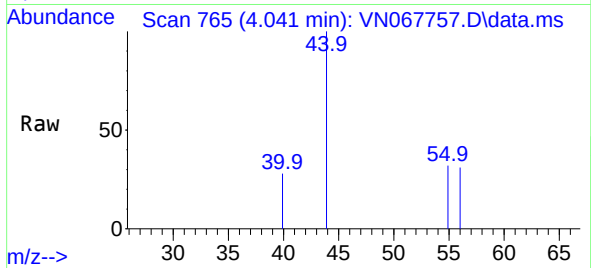




#13  
Acrolein  
Concen: 0.362 ug/l  
RT: 4.041 min Scan# 765  
Delta R.T. -0.000 min  
Lab File: VN067757.D  
Acq: 15 Jul 2021 11:10

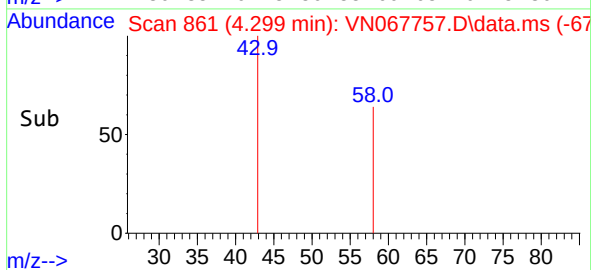
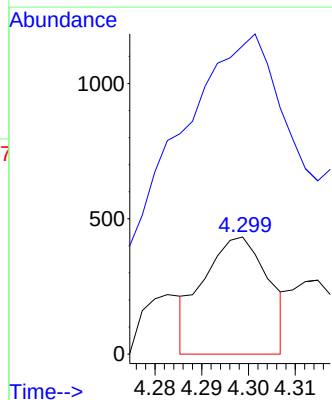
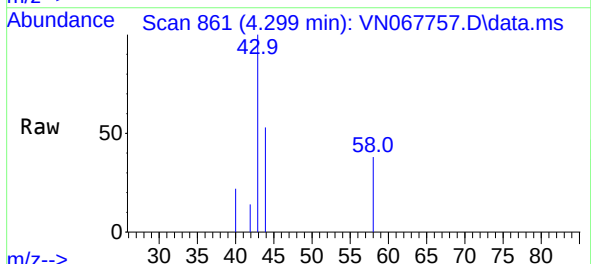
Instrument :  
MSVOA\_N  
ClientSampled :

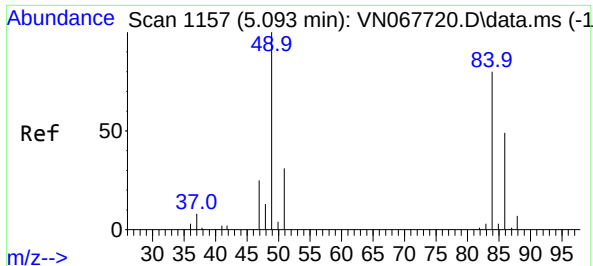
Tgt Ion: 56 Resp: 150  
Ion Ratio Lower Upper  
56 100  
55 193.3 0.2 0.2#



#15  
Acetone  
Concen: 0.968 ug/l  
RT: 4.299 min Scan# 861  
Delta R.T. 0.008 min  
Lab File: VN067757.D  
Acq: 15 Jul 2021 11:10

Tgt Ion: 58 Resp: 417  
Ion Ratio Lower Upper  
58 100  
43 148.4 268.2 402.4#



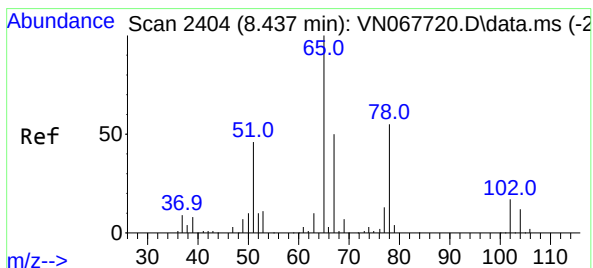
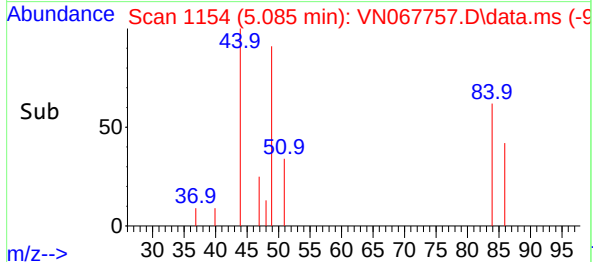
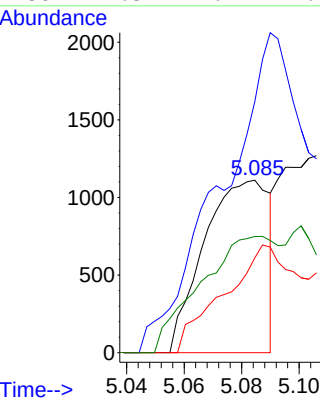
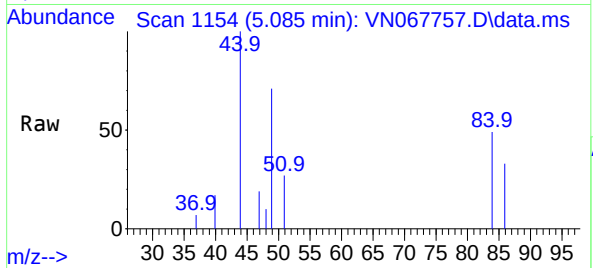


#18  
Methylene Chloride  
Concen: 0.434 ug/l  
RT: 5.085 min Scan# 1154  
Delta R.T. -0.008 min  
Lab File: VN067757.D  
Acq: 15 Jul 2021 11:10

Instrument :  
MSVOA\_N  
ClientSampled :

Tgt Ion: 84 Resp: 1741

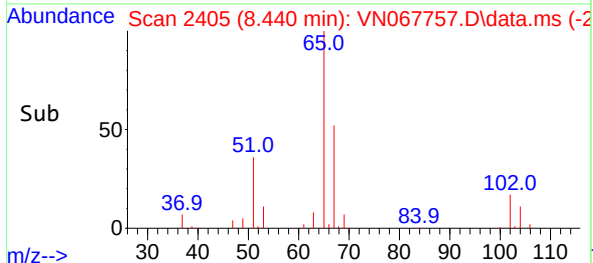
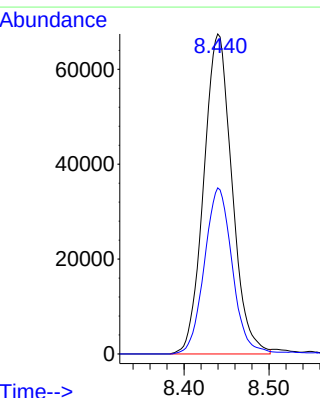
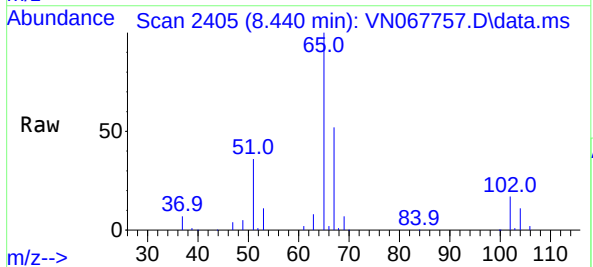
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 120.2 | 100.5 | 150.7 |
| 51  | 55.0  | 30.7  | 46.1# |
| 86  | 47.5  | 49.4  | 74.2# |

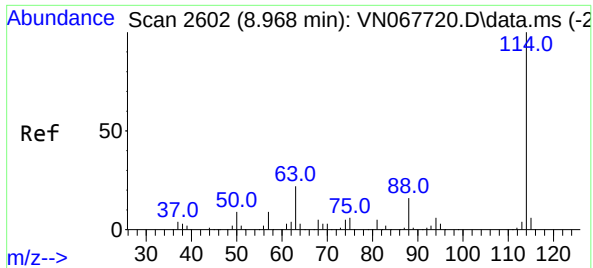


#27  
1,2-Dichloroethane-d4  
Concen: 32.290 ug/l  
RT: 8.440 min Scan# 2405  
Delta R.T. 0.003 min  
Lab File: VN067757.D  
Acq: 15 Jul 2021 11:10

Tgt Ion: 65 Resp: 155767

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 65  | 100   |       |       |
| 67  | 51.3  | 40.6  | 60.8  |



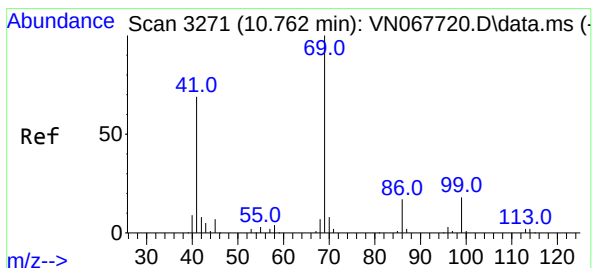
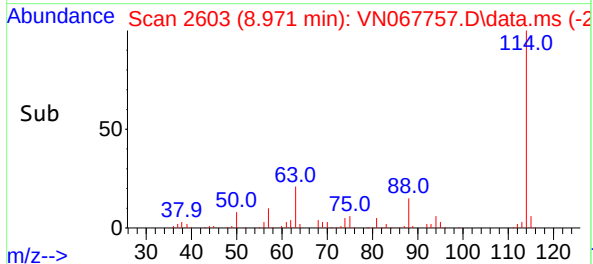
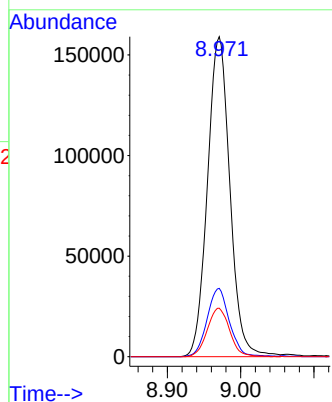
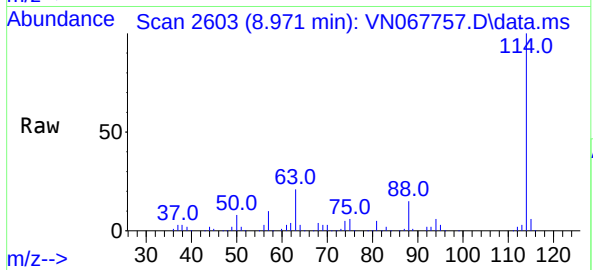


#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 8.971 min Scan# 2603  
Delta R.T. 0.003 min  
Lab File: VN067757.D  
Acq: 15 Jul 2021 11:10

Instrument :  
MSVOA\_N  
ClientSampled :

Tgt Ion:114 Resp: 338265

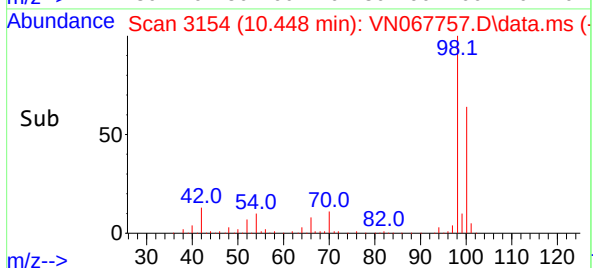
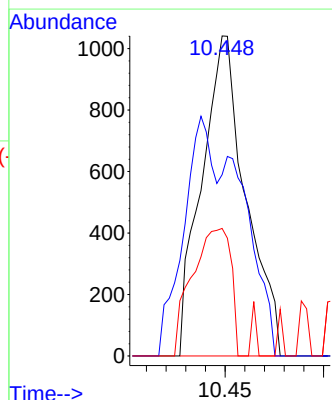
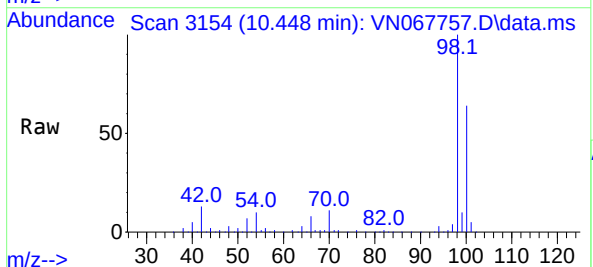
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 21.2  | 17.2  | 25.8  |
| 88  | 15.1  | 12.4  | 18.6  |

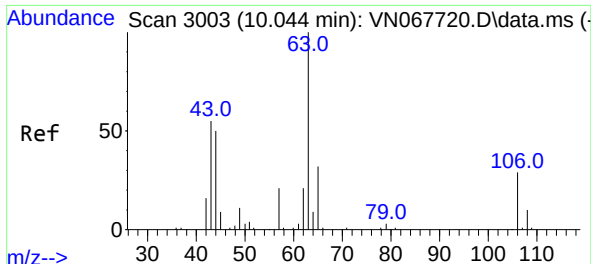


#51  
Ethyl methacrylate  
Concen: 0.252 ug/l  
RT: 10.448 min Scan# 3154  
Delta R.T. -0.314 min  
Lab File: VN067757.D  
Acq: 15 Jul 2021 11:10

Tgt Ion: 69 Resp: 1624

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 56.7  | 34.3  | 102.9 |
| 39  | 25.3  | 23.7  | 71.1  |

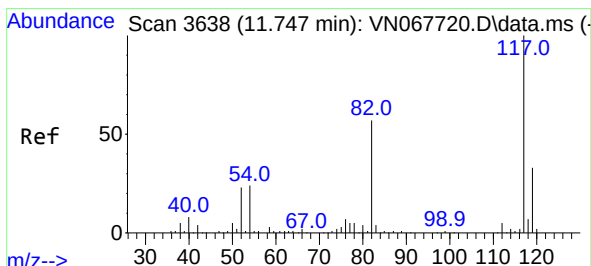
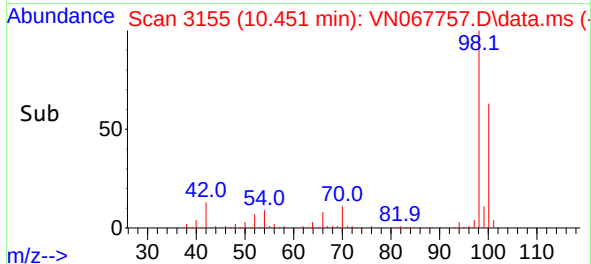
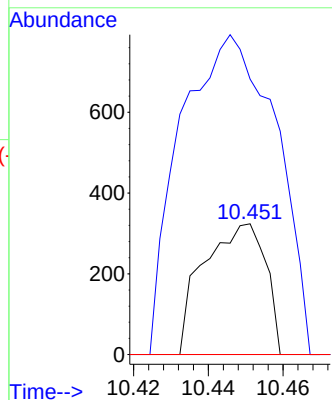
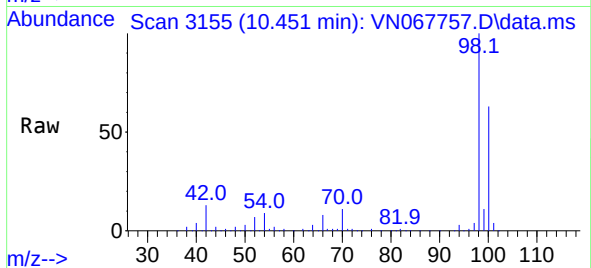




#55  
2-Chloroethyl vinyl ether  
Concen: 0.299 ug/l  
RT: 10.451 min Scan# 3155  
Delta R.T. 0.408 min  
Lab File: VN067757.D  
Acq: 15 Jul 2021 11:10

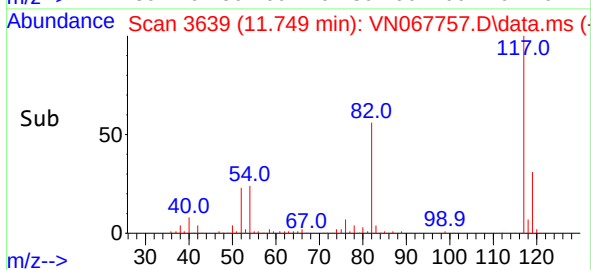
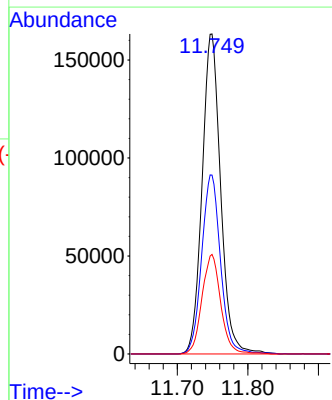
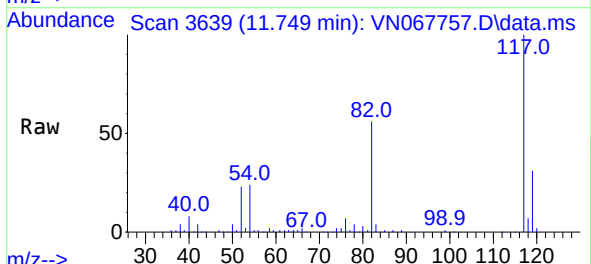
Instrument :  
MSVOA\_N  
ClientSampled :

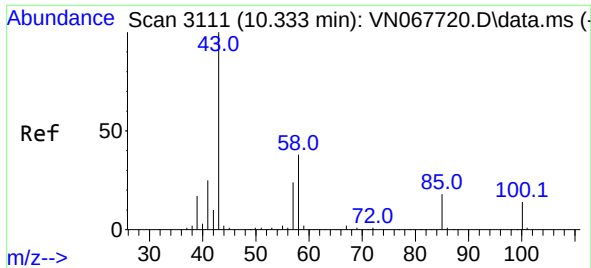
Tgt Ion: 63 Resp: 373  
Ion Ratio Lower Upper  
63 100  
65 377.5 25.5 38.3#  
106 0.0 22.1 33.1#



#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.749 min Scan# 3639  
Delta R.T. 0.003 min  
Lab File: VN067757.D  
Acq: 15 Jul 2021 11:10

Tgt Ion: 117 Resp: 297865  
Ion Ratio Lower Upper  
117 100  
82 56.8 45.4 68.0  
119 31.4 25.7 38.5

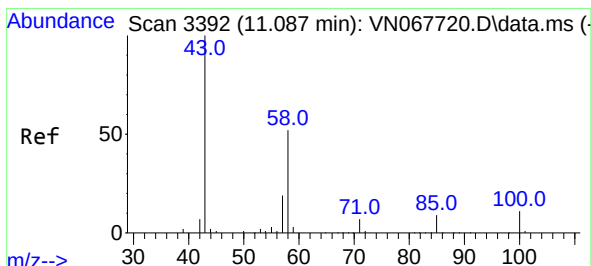
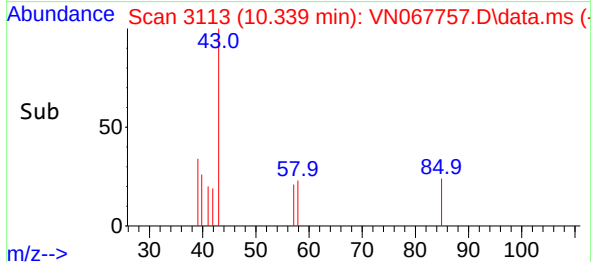
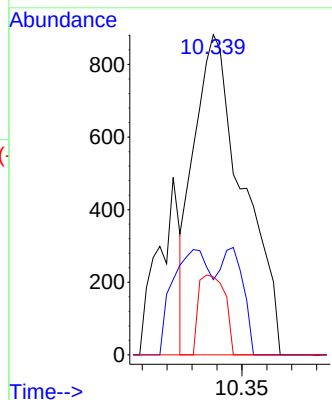
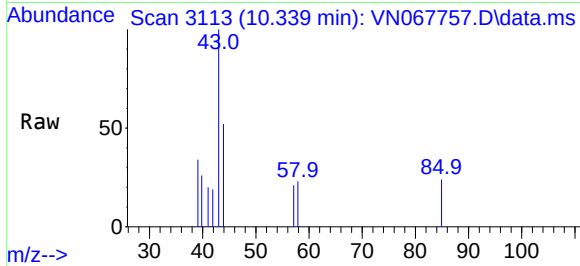




#58  
4-Methyl-2-Pentanone  
Concen: 0.237 ug/l  
RT: 10.339 min Scan# 3113  
Delta R.T. 0.005 min  
Lab File: VN067757.D  
Acq: 15 Jul 2021 11:10

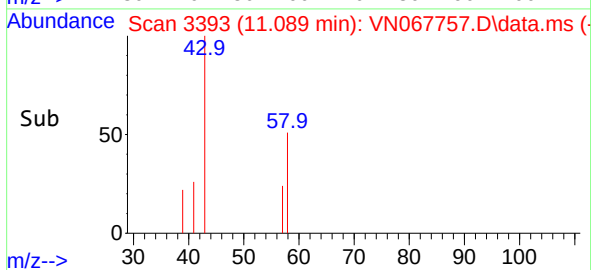
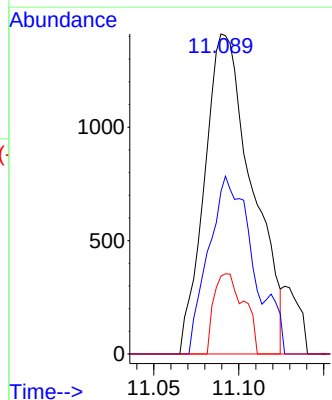
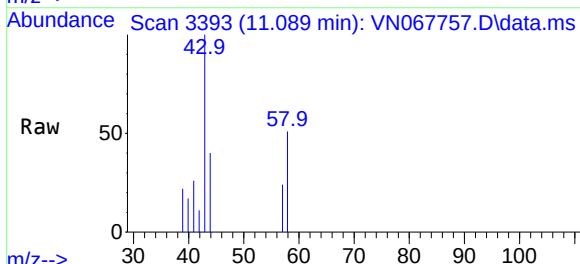
Instrument :  
MSVOA\_N  
ClientSampled :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1212  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 25.4  | 29.9  | 44.9# |
| 85       | 13.3  | 14.1  | 21.1# |

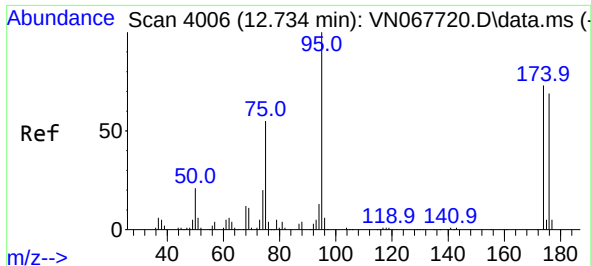


#59  
2-Hexanone  
Concen: 0.769 ug/l  
RT: 11.089 min Scan# 3393  
Delta R.T. 0.003 min  
Lab File: VN067757.D  
Acq: 15 Jul 2021 11:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 2758  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 30.3  | 41.5  | 62.3# |
| 57       | 12.0  | 15.1  | 22.7# |



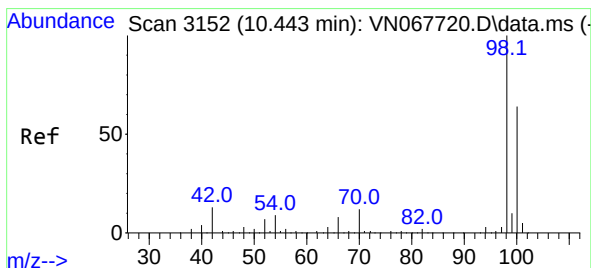
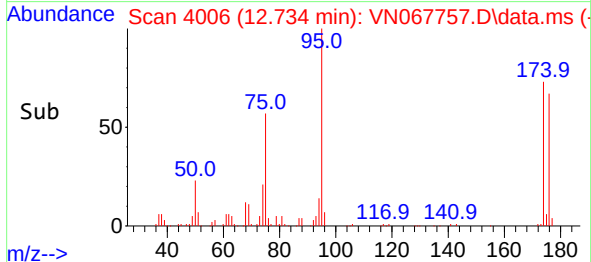
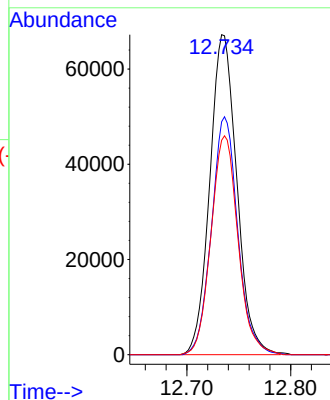
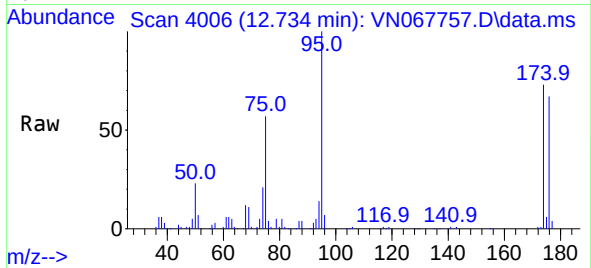




#60  
4-Bromofluorobenzene  
Concen: 25.152 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. -0.000 min  
Lab File: VN067757.D  
Acq: 15 Jul 2021 11:10

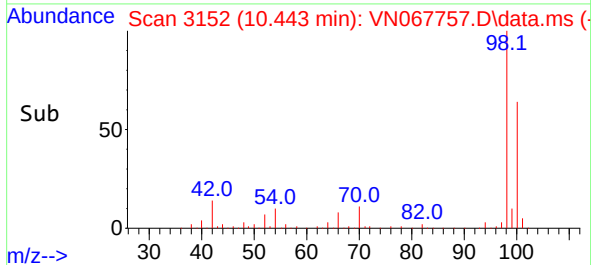
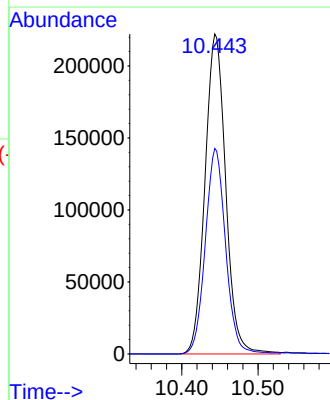
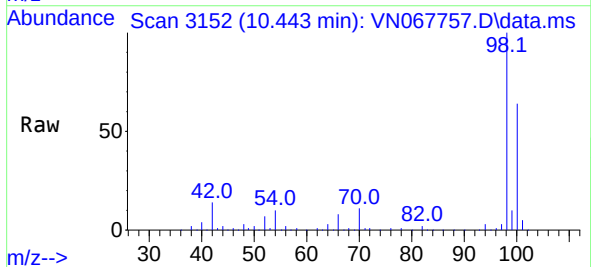
Instrument :  
MSVOA\_N  
ClientSampled :

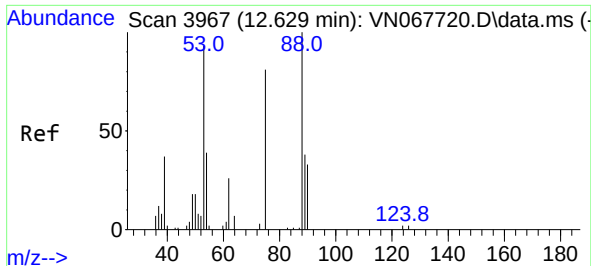
Tgt Ion: 95 Resp: 121671  
Ion Ratio Lower Upper  
95 100  
174 72.3 57.1 85.7  
176 68.3 54.6 81.8



#63  
Toluene-d8  
Concen: 30.584 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. -0.000 min  
Lab File: VN067757.D  
Acq: 15 Jul 2021 11:10

Tgt Ion: 98 Resp: 419002  
Ion Ratio Lower Upper  
98 100  
100 63.0 51.0 76.4

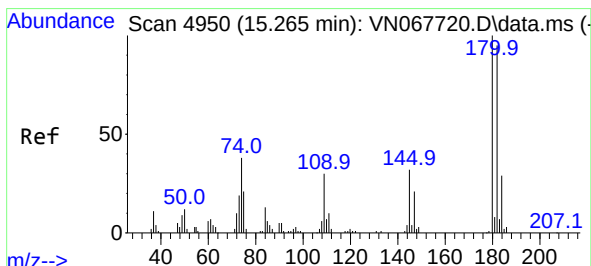
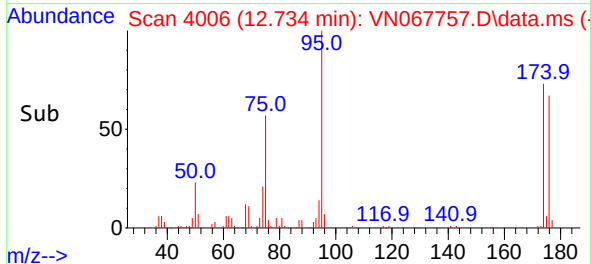
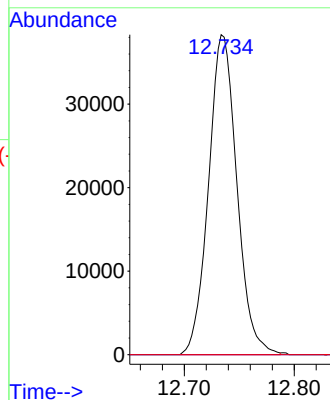
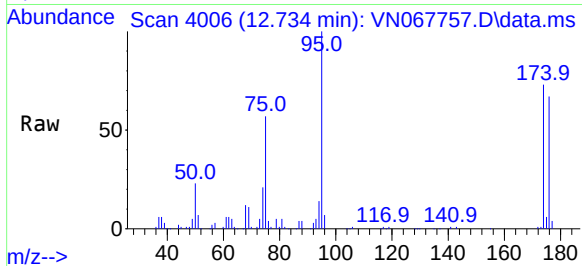




#77  
t-1,4-Dichloro-2-butene  
Concen: 45.792 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. 0.104 min  
Lab File: VN067757.D  
Acq: 15 Jul 2021 11:10

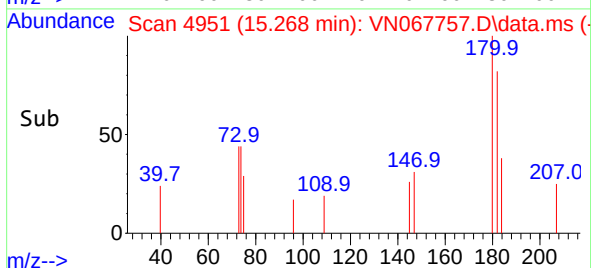
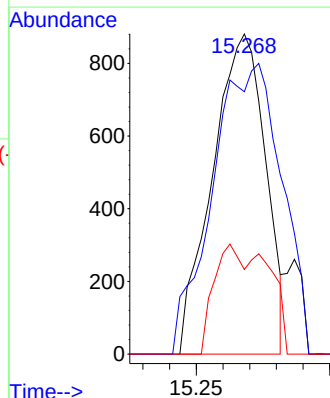
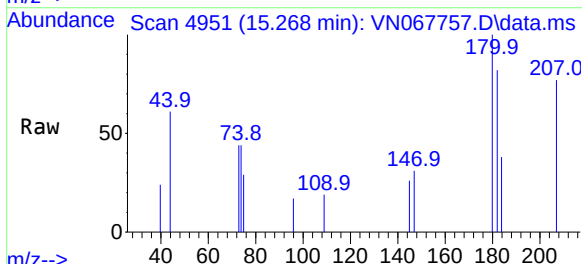
Instrument :  
MSVOA\_N  
ClientSampled :

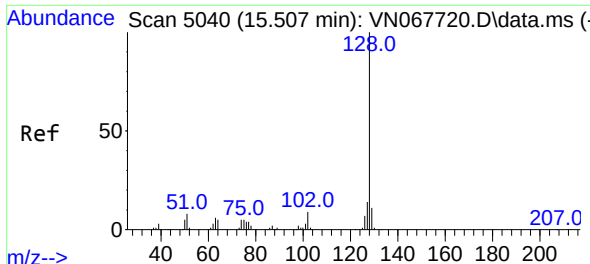
Tgt Ion: 75 Resp: 68713  
Ion Ratio Lower Upper  
75 100  
53 0.0 57.0 171.0#  
89 0.0 24.7 74.1#



#89  
1,2,4-Trichlorobenzene  
Concen: 0.346 ug/l  
RT: 15.268 min Scan# 4951  
Delta R.T. 0.003 min  
Lab File: VN067757.D  
Acq: 15 Jul 2021 11:10

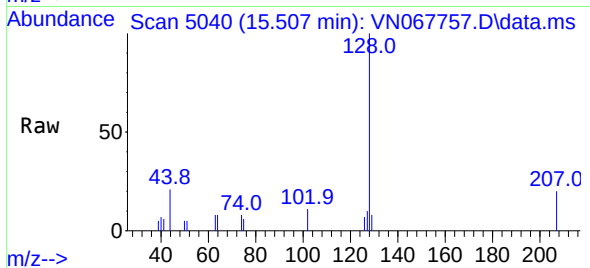
Tgt Ion:180 Resp: 1217  
Ion Ratio Lower Upper  
180 100  
182 0.0 74.5 111.7#  
145 15.9 25.4 38.0#



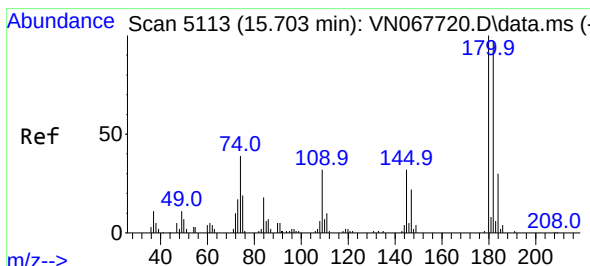
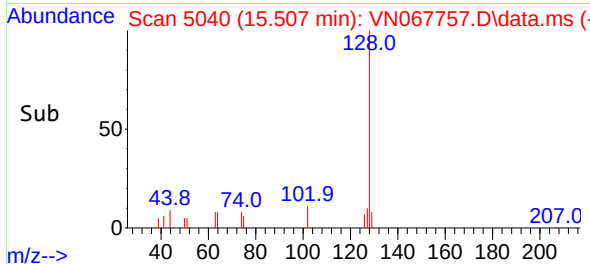
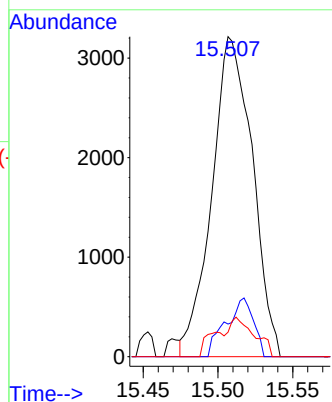


#91  
Naphthalene  
Concen: 0.606 ug/l  
RT: 15.507 min Scan# 5040  
Delta R.T. -0.000 min  
Lab File: VN067757.D  
Acq: 15 Jul 2021 11:10

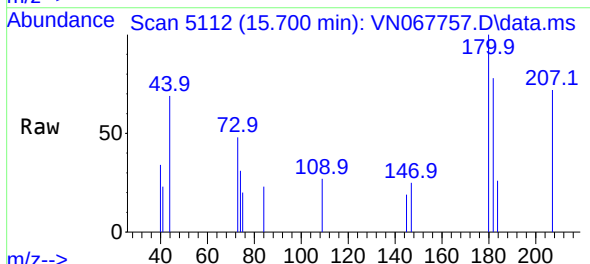
Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion:128 Resp: 6061  
Ion Ratio Lower Upper  
128 100  
127 3.7 10.9 16.3#  
129 3.6 8.7 13.1#



#92  
1,2,3-Trichlorobenzene  
Concen: 0.551 ug/l  
RT: 15.700 min Scan# 5112  
Delta R.T. -0.003 min  
Lab File: VN067757.D  
Acq: 15 Jul 2021 11:10



Tgt Ion:180 Resp: 1857  
Ion Ratio Lower Upper  
180 100  
182 52.9 0.0 190.8  
145 11.1 0.0 68.2

