

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN032521\  
 Data File : VN066327.D  
 Acq On : 25 Mar 2021 12:44  
 Operator : JC/MD  
 Sample : M1741-01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 OF-1

Quant Time: Mar 26 04:39:19 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N032421W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Mar 25 05:52:50 2021  
 Response via : Initial Calibration

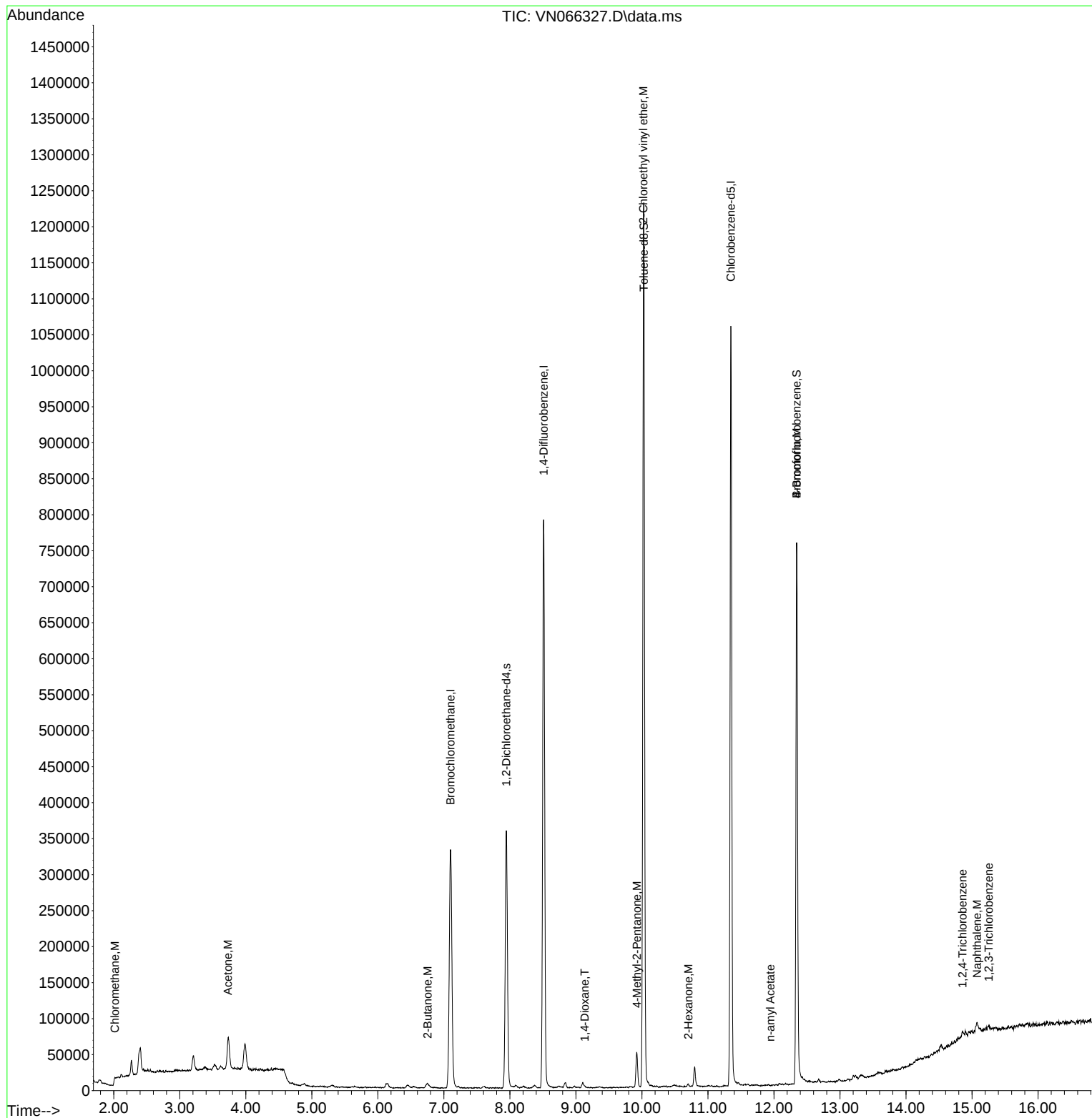
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 7.102  | 128   | 131671   | 30.00    | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene       | 8.512  | 114   | 702743   | 30.00    | ug/l   | 0.00     |
| 57) Chlorobenzene-d5          | 11.347 | 117   | 598695   | 30.00    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4     | 7.947  | 65    | 298554   | 29.50    | ug/l   | 0.00     |
| Spiked Amount                 | 30.000 | Range | 91 - 110 | Recovery | =      | 98.33%   |
| 60) 4-Bromofluorobenzene      | 12.345 | 95    | 261443   | 27.98    | ug/l   | 0.00     |
| Spiked Amount                 | 30.000 | Range | 63 - 112 | Recovery | =      | 93.27%   |
| 63) Toluene-d8                | 10.028 | 98    | 834501   | 29.70    | ug/l   | 0.00     |
| Spiked Amount                 | 30.000 | Range | 91 - 112 | Recovery | =      | 99.00%   |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 2.017  | 50    | 3823     | 0.41     | ug/l   | 91       |
| 13) Acrolein                  | 3.527  | 56    | 8693     | Below    | Cal    | 94       |
| 15) Acetone                   | 3.731  | 58    | 11571    | 9.13     | ug/l   | 94       |
| 30) 2-Butanone                | 6.753  | 43    | 8827     | 1.43     | ug/l # | 59       |
| 45) 1,4-Dioxane               | 9.135  | 88    | 300      | 2.22     | ug/l # | 58       |
| 47) n-amyl Acetate            | 11.948 | 43    | 222      | 6.15     | ug/l   | 99       |
| 55) 2-Chloroethyl vinyl ether | 10.022 | 63    | 698      | 0.38     | ug/l # | 1        |
| 56) Bromoform                 | 12.345 | 173   | 2187     | 0.33     | ug/l # | 1        |
| 58) 4-Methyl-2-Pentanone      | 9.923  | 43    | 32993    | 2.75     | ug/l   | 99       |
| 59) 2-Hexanone                | 10.704 | 43    | 2650     | 0.32     | ug/l # | 90       |
| 89) 1,2,4-Trichlorobenzene    | 14.858 | 180   | 1900     | 0.22     | ug/l # | 87       |
| 91) Naphthalene               | 15.078 | 128   | 12353    | 0.46     | ug/l # | 93       |
| 92) 1,2,3-Trichlorobenzene    | 15.255 | 180   | 2522     | 0.29     | ug/l   | 70       |
| -----                         |        |       |          |          |        |          |

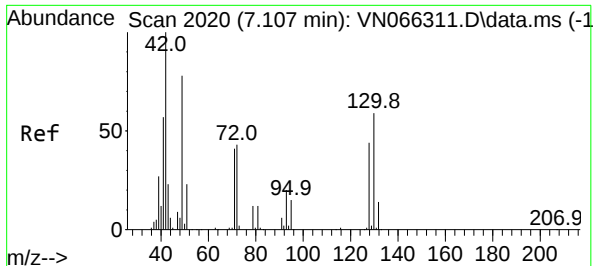
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN032521\  
Data File : VN066327.D  
Acq On : 25 Mar 2021 12:44  
Operator : JC/MD  
Sample : M1741-01  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
Client Sampled :  
OF-1

Quant Time: Mar 26 04:39:19 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N032421W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Thu Mar 25 05:52:50 2021  
Response via : Initial Calibration

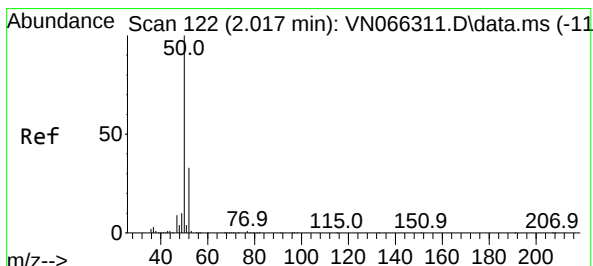
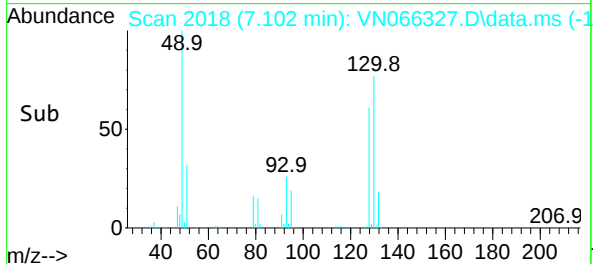
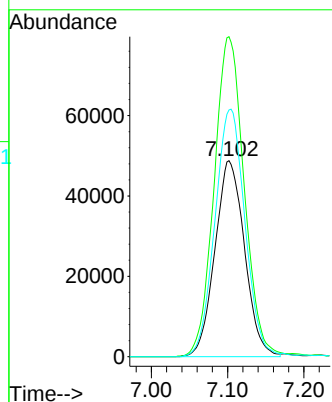
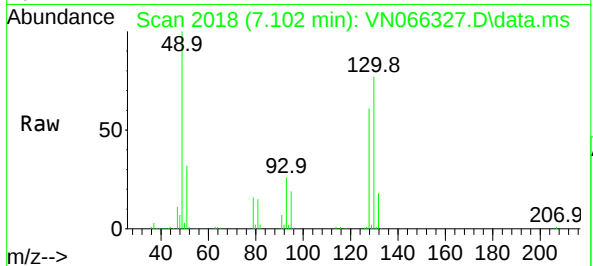




#1  
Bromochloromethane  
Concen: 30.00 ug/l  
RT: 7.102 min Scan# 2018  
Delta R.T. -0.005 min  
Lab File: VN066327.D  
Acq: 25 Mar 2021 12:44

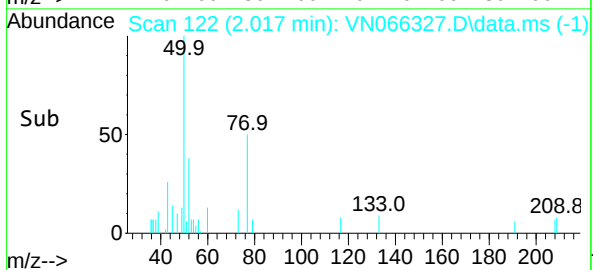
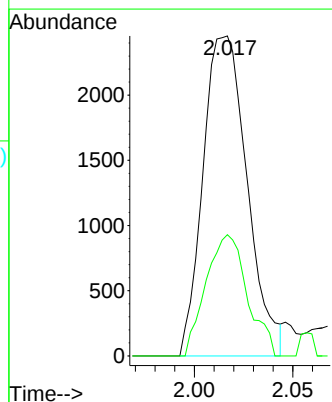
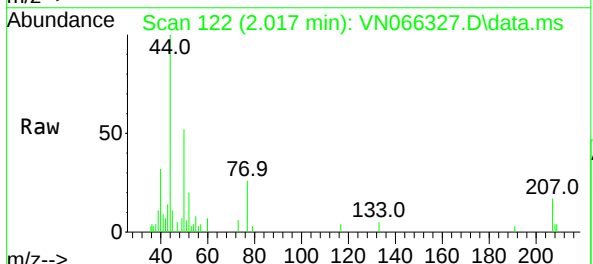
Instrument :  
MSVOA\_N  
ClientSampled :  
OF-1

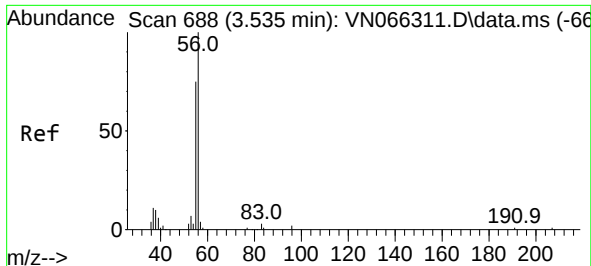
Tgt Ion:128 Resp: 131671  
Ion Ratio Lower Upper  
128 100  
49 164.5 0.0 429.3  
130 128.0 0.0 328.5



#3  
Chloromethane  
Concen: 0.41 ug/l  
RT: 2.017 min Scan# 122  
Delta R.T. -0.000 min  
Lab File: VN066327.D  
Acq: 25 Mar 2021 12:44

Tgt Ion: 50 Resp: 3823  
Ion Ratio Lower Upper  
50 100  
52 37.9 26.2 39.4

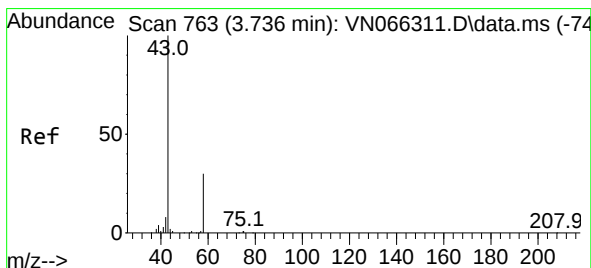
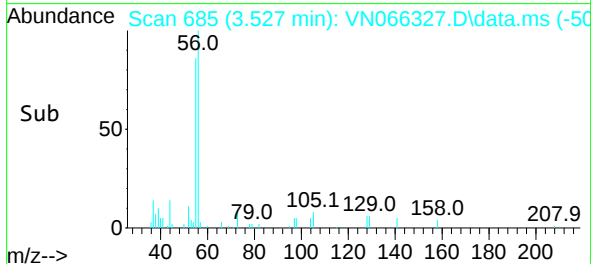
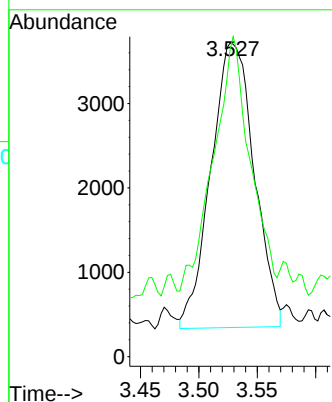
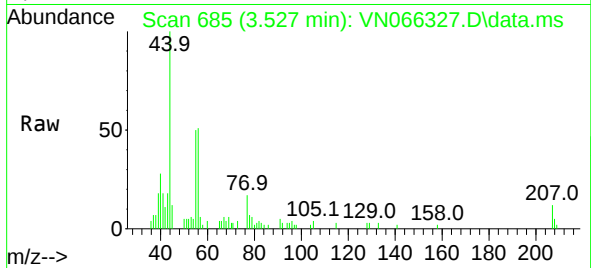




#13  
Acrolein  
Concen: Below Cal  
RT: 3.527 min Scan# 685  
Delta R.T. -0.008 min  
Lab File: VN066327.D  
Acq: 25 Mar 2021 12:44

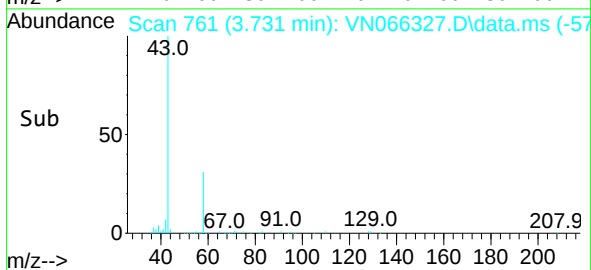
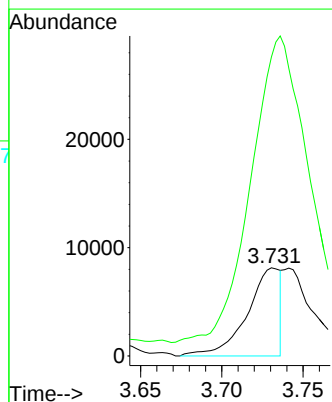
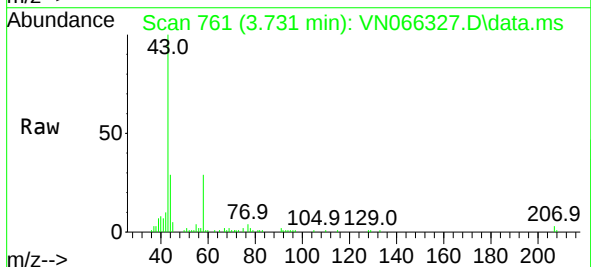
Instrument :  
MSVOA\_N  
ClientSampled :  
OF-1

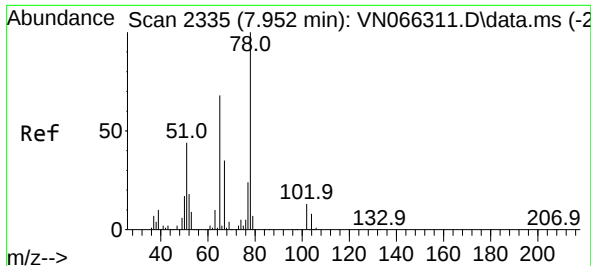
Tgt Ion: 56 Resp: 8693  
Ion Ratio Lower Upper  
56 100  
55 72.4 54.1 81.1



#15  
Acetone  
Concen: 9.13 ug/l  
RT: 3.731 min Scan# 761  
Delta R.T. -0.005 min  
Lab File: VN066327.D  
Acq: 25 Mar 2021 12:44

Tgt Ion: 58 Resp: 11571  
Ion Ratio Lower Upper  
58 100  
43 321.5 267.3 400.9





#27

1,2-Dichloroethane-d4

Concen: 29.50 ug/l

RT: 7.947 min Scan# 2333

Delta R.T. -0.005 min

Lab File: VN066327.D

Acq: 25 Mar 2021 12:44

Tgt Ion: 65 Resp: 298554

Ion Ratio Lower Upper

65 100

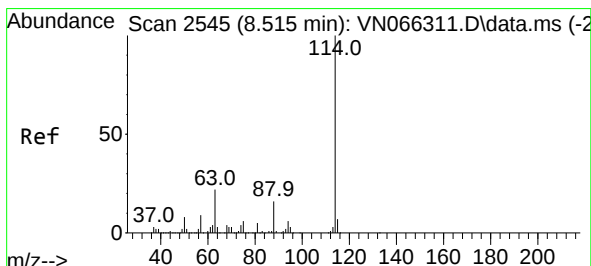
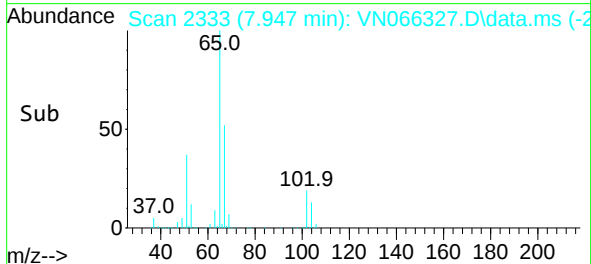
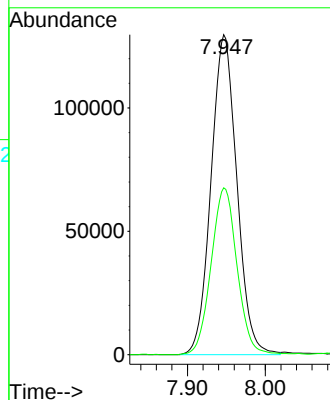
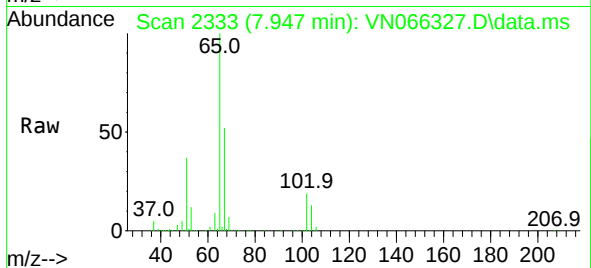
67 52.5 42.2 63.4

Instrument :

MSVOA\_N

ClientSampled :

OF-1



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 8.512 min Scan# 2544

Delta R.T. -0.003 min

Lab File: VN066327.D

Acq: 25 Mar 2021 12:44

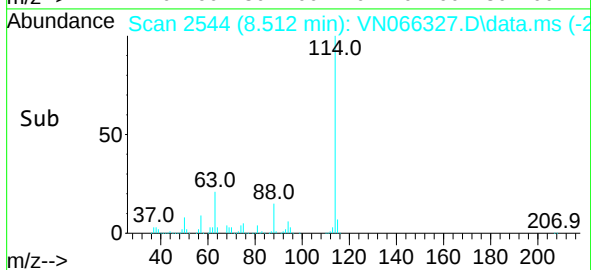
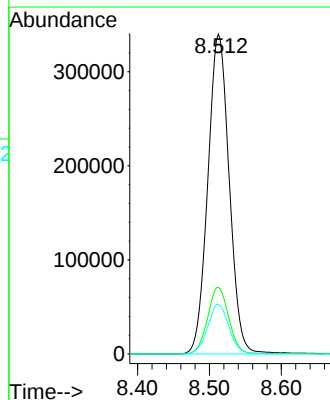
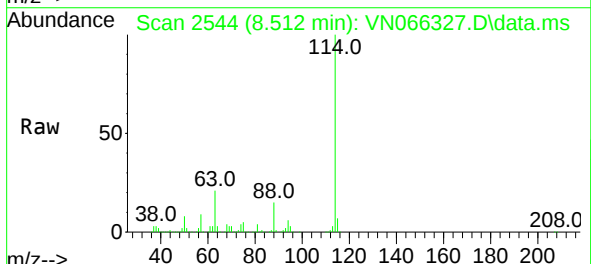
Tgt Ion: 114 Resp: 702743

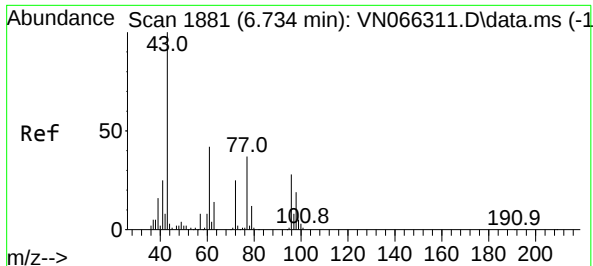
Ion Ratio Lower Upper

114 100

63 20.7 17.4 26.0

88 15.6 12.6 19.0

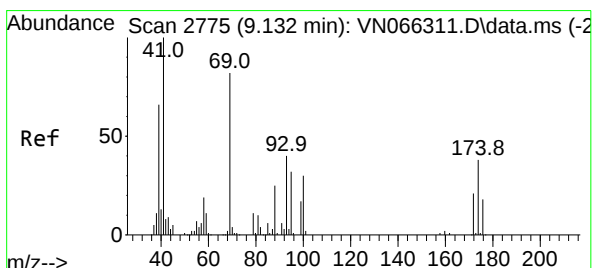
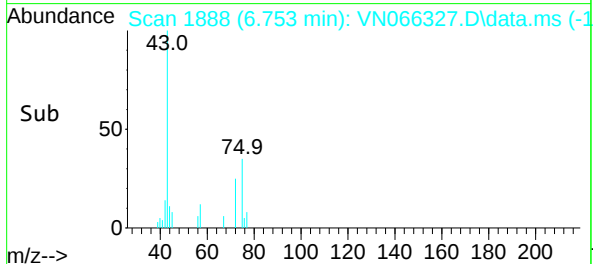
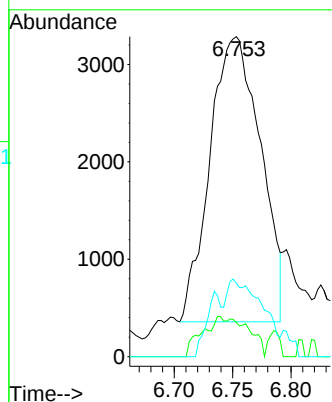
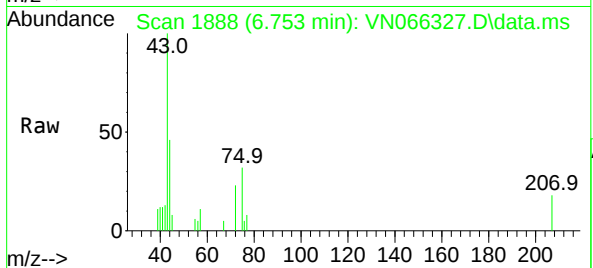




#30  
2-Butanone  
Concen: 1.43 ug/l  
RT: 6.753 min Scan# 1888  
Delta R.T. 0.019 min  
Lab File: VN066327.D  
Acq: 25 Mar 2021 12:44

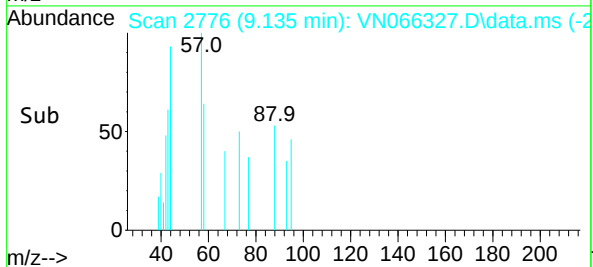
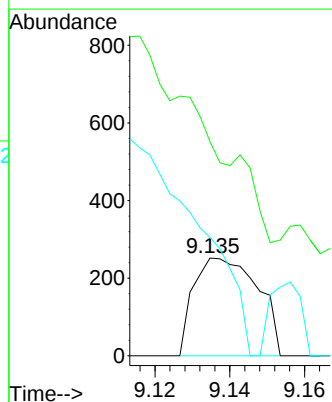
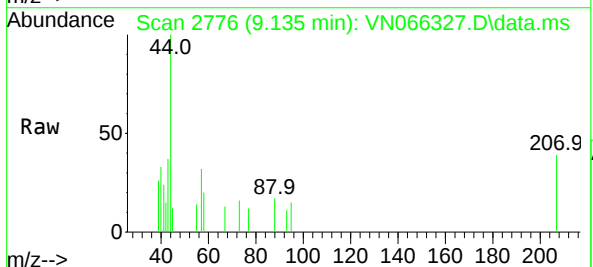
Instrument :  
MSVOA\_N  
ClientSampled :  
OF-1

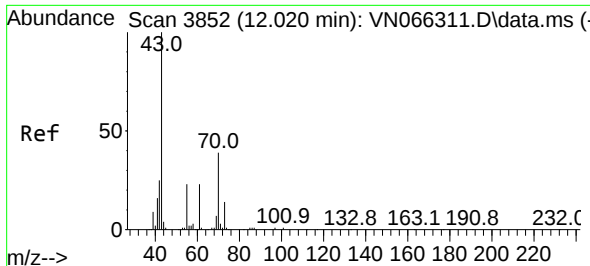
Tgt Ion: 43 Resp: 8827  
Ion Ratio Lower Upper  
43 100  
57 0.0 6.9 10.3#  
72 2.3 20.9 31.3#



#45  
1,4-Dioxane  
Concen: 2.22 ug/l  
RT: 9.135 min Scan# 2776  
Delta R.T. 0.003 min  
Lab File: VN066327.D  
Acq: 25 Mar 2021 12:44

Tgt Ion: 88 Resp: 300  
Ion Ratio Lower Upper  
88 100  
43 11.7 27.0 40.4#  
58 36.3 57.9 86.9#

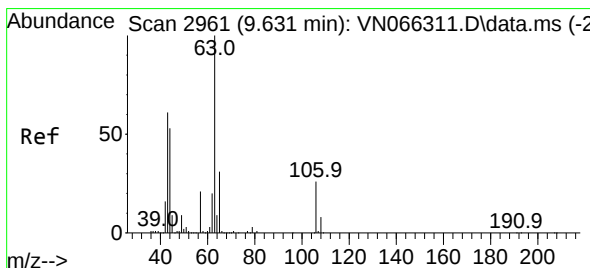
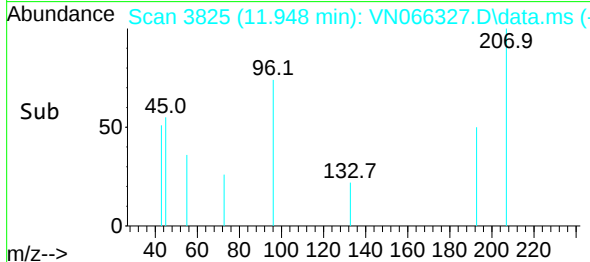
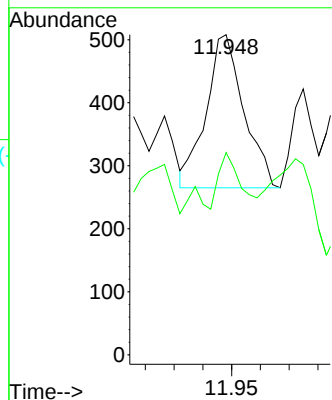
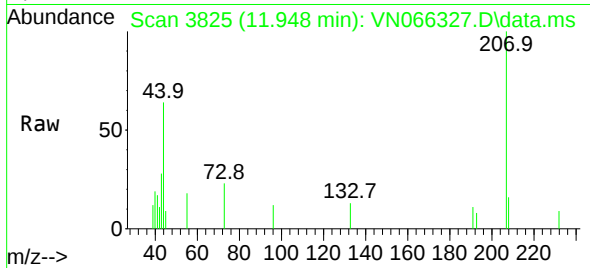




#47  
n-amy1 Acetate  
Concen: 6.15 ug/l  
RT: 11.948 min Scan# 3825  
Delta R.T. -0.072 min  
Lab File: VN066327.D  
Acq: 25 Mar 2021 12:44

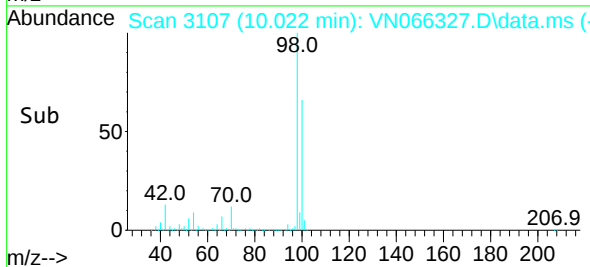
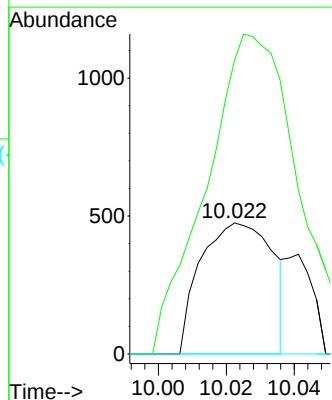
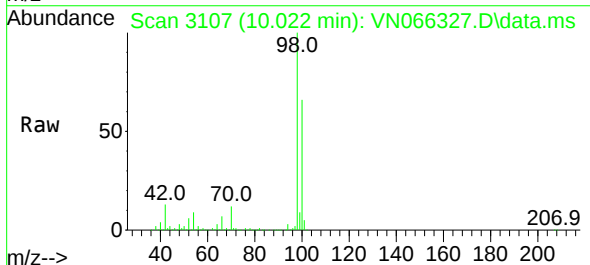
Instrument :  
MSVOA\_N  
ClientSampled :  
OF-1

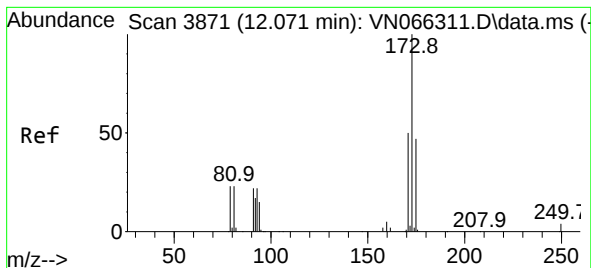
Tgt Ion: 43 Resp: 222  
Ion Ratio Lower Upper  
43 100  
55 21.6 17.7 26.5



#55  
2-Chloroethyl vinyl ether  
Concen: 0.38 ug/l  
RT: 10.022 min Scan# 3107  
Delta R.T. 0.391 min  
Lab File: VN066327.D  
Acq: 25 Mar 2021 12:44

Tgt Ion: 63 Resp: 698  
Ion Ratio Lower Upper  
63 100  
65 310.0 26.0 39.0#  
106 0.0 20.6 31.0#

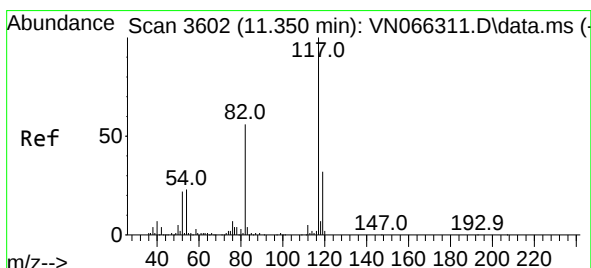
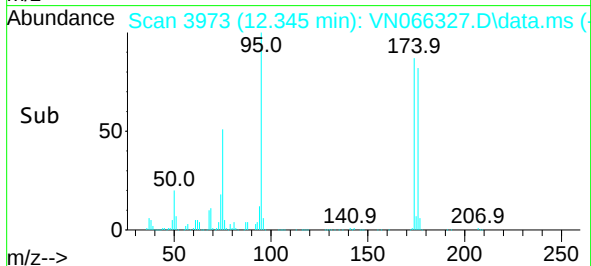
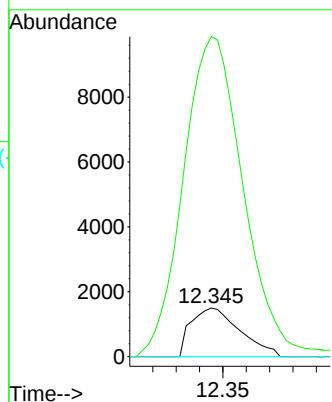
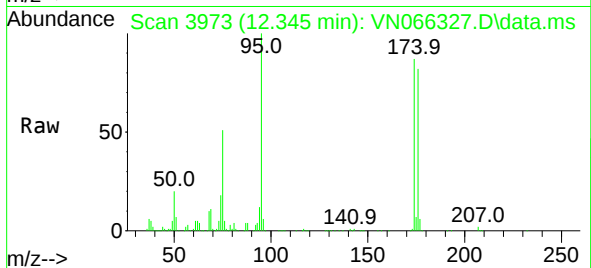




#56  
Bromoform  
Concen: 0.33 ug/l  
RT: 12.345 min Scan# 3973  
Delta R.T. 0.274 min  
Lab File: VN066327.D  
Acq: 25 Mar 2021 12:44

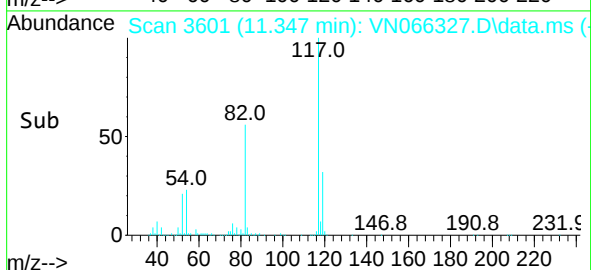
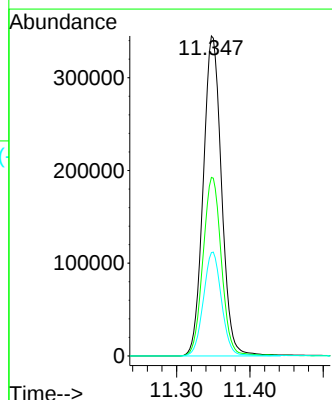
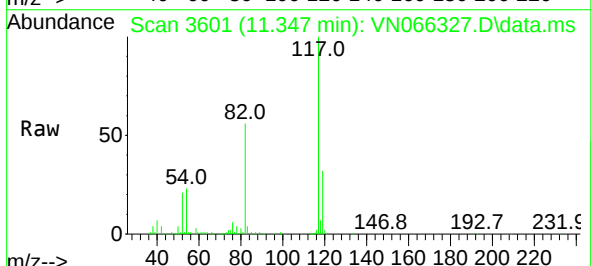
Instrument :  
MSVOA\_N  
ClientSampled :  
OF-1

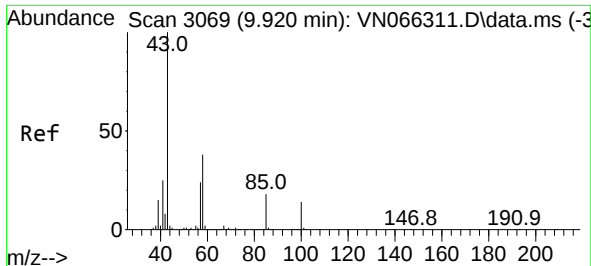
Tgt Ion:173 Resp: 2187  
Ion Ratio Lower Upper  
173 100  
175 802.7 38.3 57.5#  
254 0.0 0.0 0.0



#57  
Chlorobenzene-d5  
Concen: 30.00 ug/l  
RT: 11.347 min Scan# 3601  
Delta R.T. -0.003 min  
Lab File: VN066327.D  
Acq: 25 Mar 2021 12:44

Tgt Ion:117 Resp: 598695  
Ion Ratio Lower Upper  
117 100  
82 56.1 45.0 67.6  
119 32.3 25.5 38.3

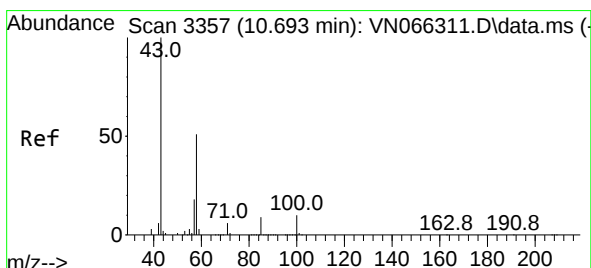
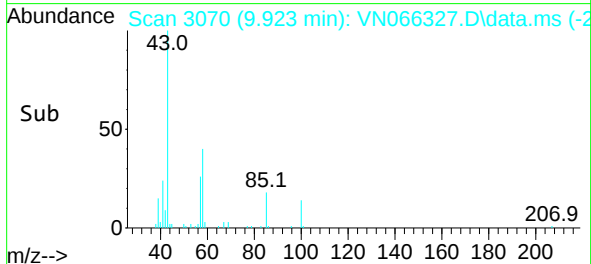
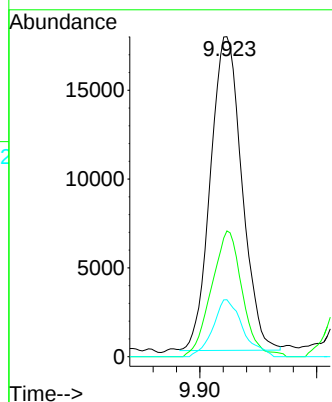
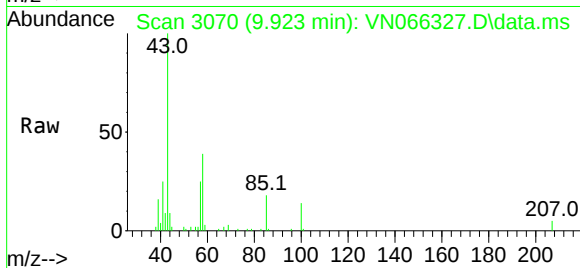




#58  
4-Methyl-2-Pentanone  
Concen: 2.75 ug/l  
RT: 9.923 min Scan# 3070  
Delta R.T. 0.003 min  
Lab File: VN066327.D  
Acq: 25 Mar 2021 12:44

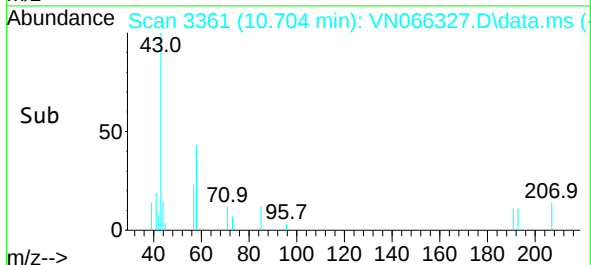
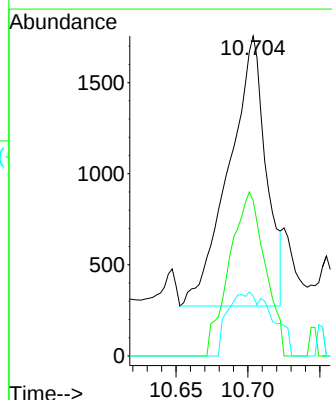
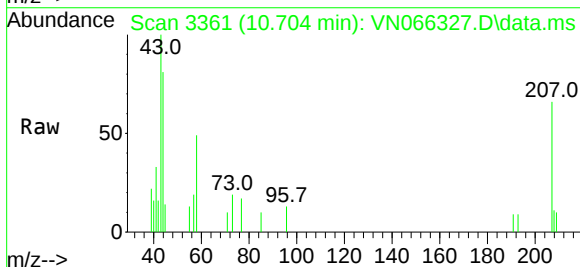
Instrument :  
MSVOA\_N  
ClientSampled :  
OF-1

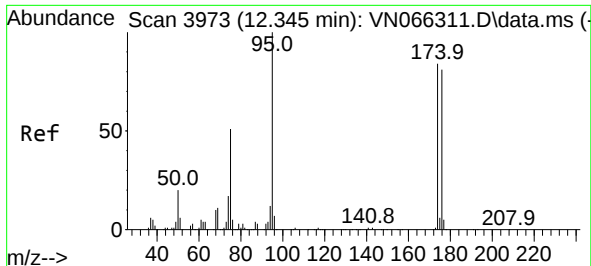
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 32993 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 39.3  | 30.4  | 45.6  |
| 85       | 17.2  | 13.8  | 20.8  |



#59  
2-Hexanone  
Concen: 0.32 ug/l  
RT: 10.704 min Scan# 3361  
Delta R.T. 0.011 min  
Lab File: VN066327.D  
Acq: 25 Mar 2021 12:44

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 2650  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 58.4  | 41.8  | 62.6  |
| 57       | 12.2  | 14.9  | 22.3# |

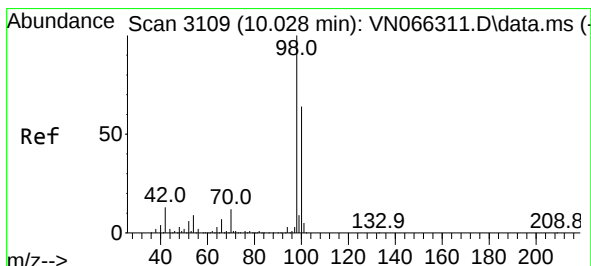
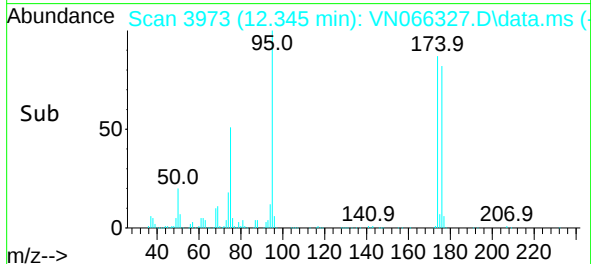
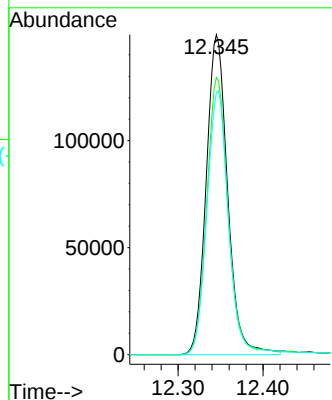
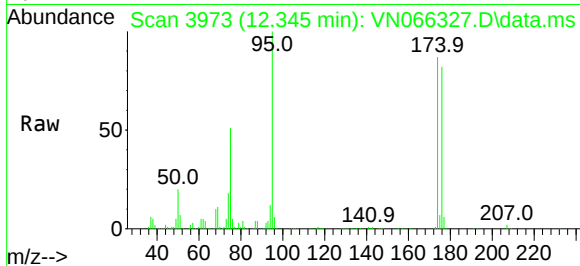




#60  
4-Bromofluorobenzene  
Concen: 27.98 ug/l  
RT: 12.345 min Scan# 3973  
Delta R.T. 0.000 min  
Lab File: VN066327.D  
Acq: 25 Mar 2021 12:44

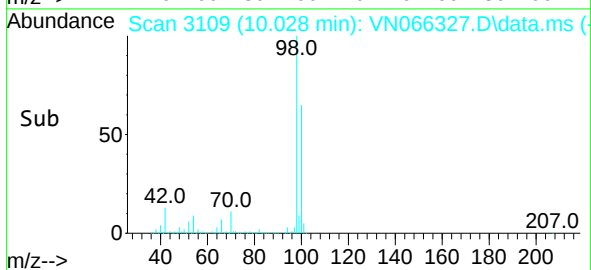
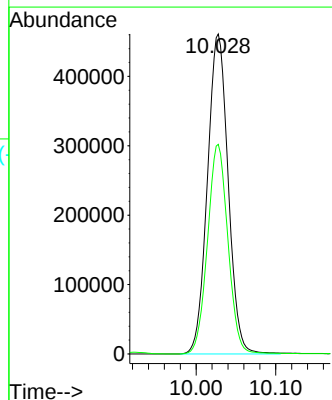
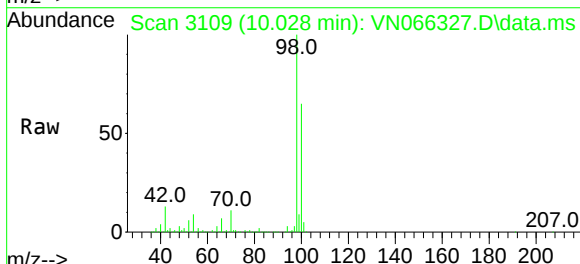
Instrument :  
MSVOA\_N  
ClientSampled :  
OF-1

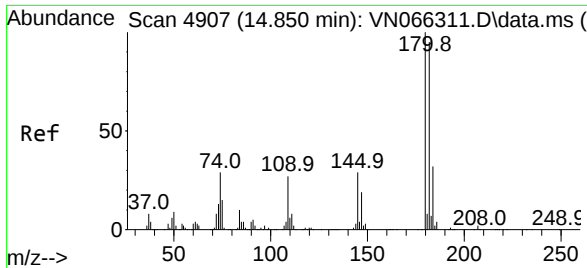
Tgt Ion: 95 Resp: 261443  
Ion Ratio Lower Upper  
95 100  
174 87.0 68.1 102.1  
176 82.1 65.4 98.0



#63  
Toluene-d8  
Concen: 29.70 ug/l  
RT: 10.028 min Scan# 3109  
Delta R.T. -0.000 min  
Lab File: VN066327.D  
Acq: 25 Mar 2021 12:44

Tgt Ion: 98 Resp: 834501  
Ion Ratio Lower Upper  
98 100  
100 64.5 51.1 76.7

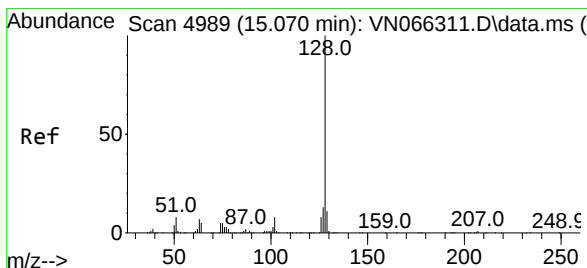
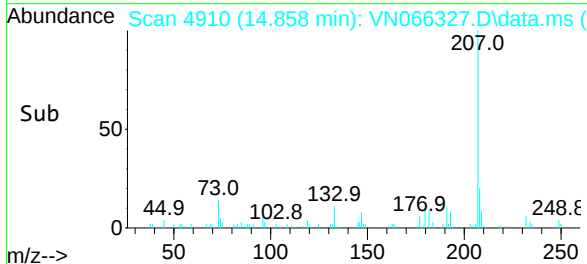
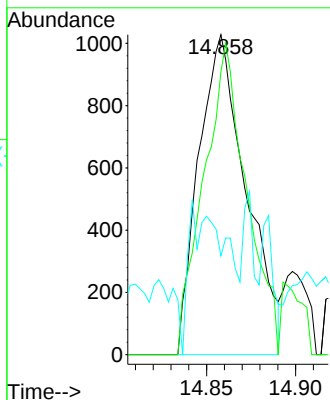
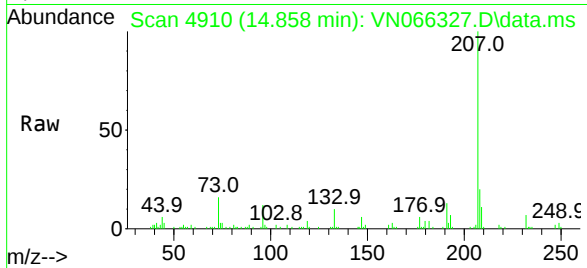




#89  
1,2,4-Trichlorobenzene  
Concen: 0.22 ug/l  
RT: 14.858 min Scan# 4910  
Delta R.T. 0.008 min  
Lab File: VN066327.D  
Acq: 25 Mar 2021 12:44

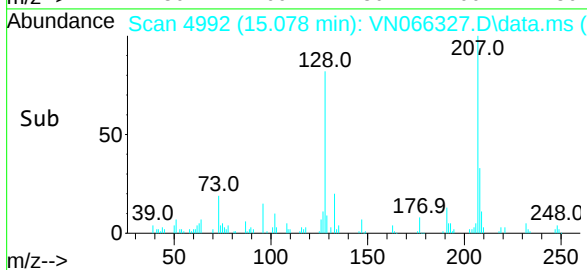
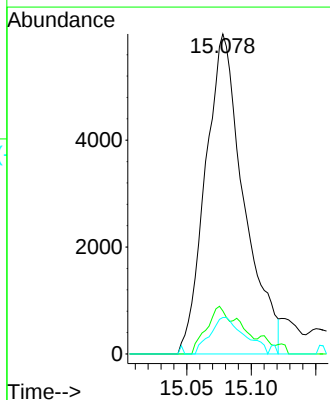
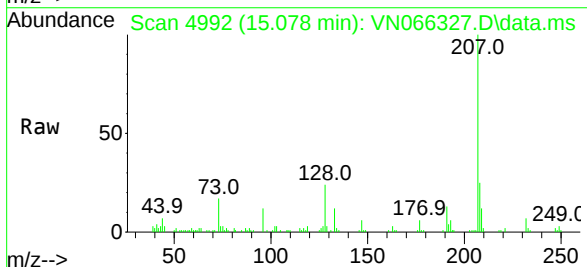
Instrument :  
MSVOA\_N  
ClientSampled :  
OF-1

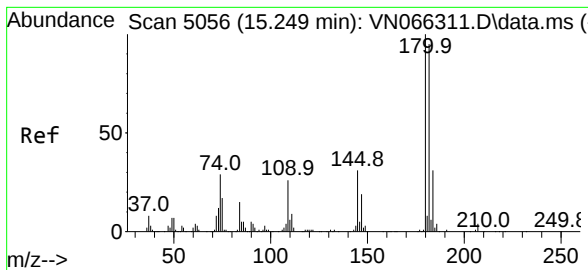
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 88.4  | 74.3  | 111.5 |
| 145     | 8.6   | 23.4  | 35.0# |



#91  
Naphthalene  
Concen: 0.46 ug/l  
RT: 15.078 min Scan# 4992  
Delta R.T. 0.008 min  
Lab File: VN066327.D  
Acq: 25 Mar 2021 12:44

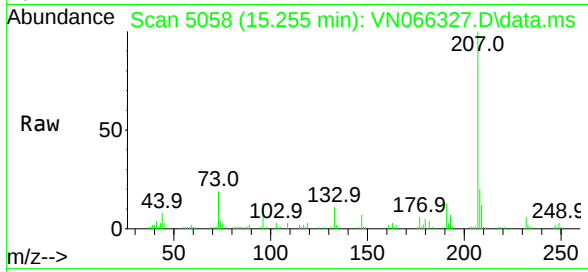
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 8.3   | 10.2  | 15.2# |
| 129     | 10.2  | 8.6   | 13.0  |





#92  
 1,2,3-Trichlorobenzene  
 Concen: 0.29 ug/l  
 RT: 15.255 min Scan# 5058  
 Delta R.T. 0.005 min  
 Lab File: VN066327.D  
 Acq: 25 Mar 2021 12:44

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 OF-1



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 2522  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 63.6  | 0.0   | 190.0 |
| 145      | 17.0  | 0.0   | 60.8  |

