

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN071421\  
 Data File : VN067752.D  
 Acq On : 14 Jul 2021 18:46  
 Operator : JC/MD  
 Sample : M3039-22RE 5X  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jul 15 06:30:06 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

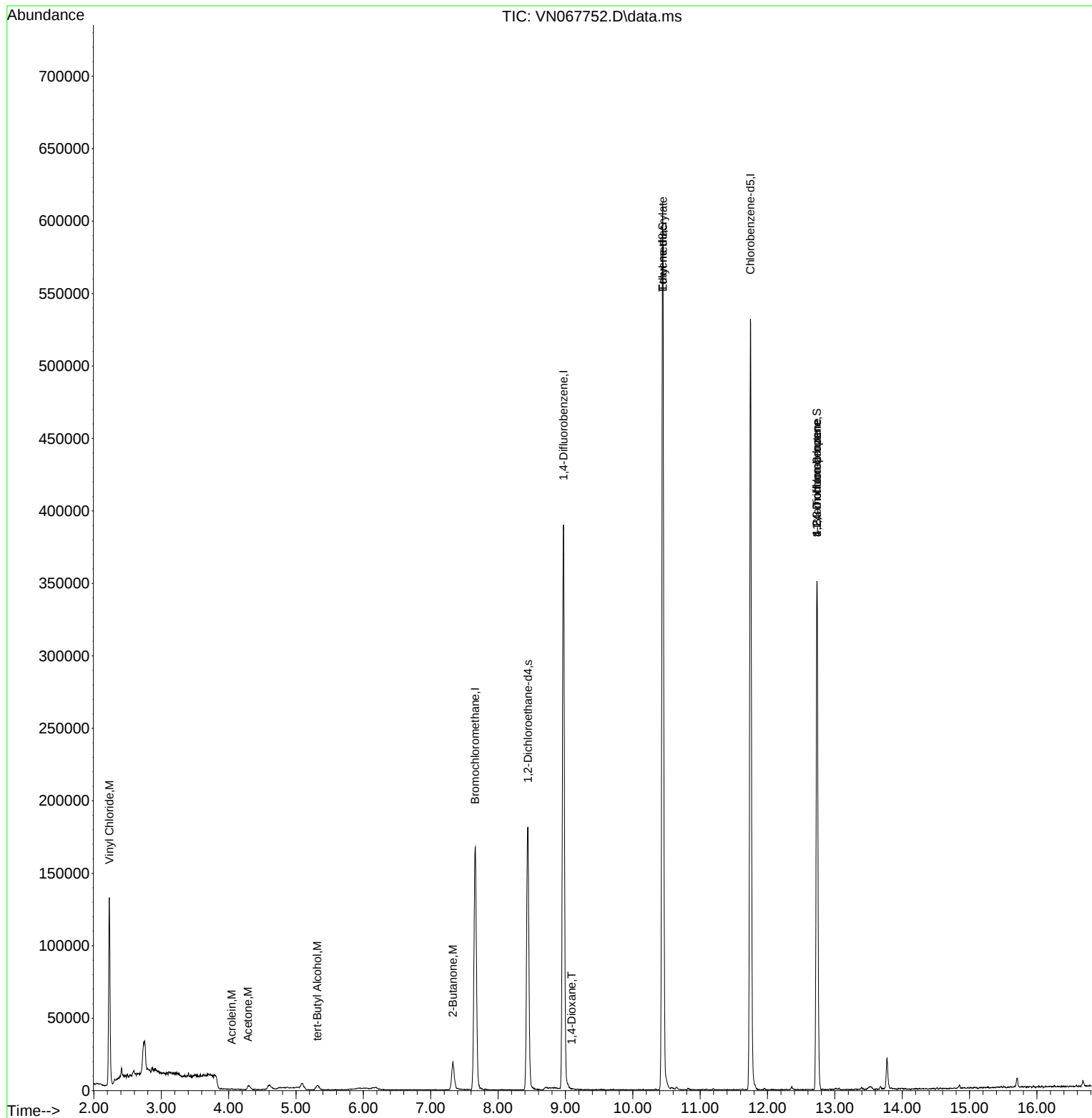
| Compound                    | R.T.   | QIon  | Response | Conc     | Units       | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|-------------|----------|
| -----                       |        |       |          |          |             |          |
| Internal Standards          |        |       |          |          |             |          |
| 1) Bromochloromethane       | 7.659  | 128   | 59026    | 30.000   | ug/l        | 0.00     |
| 28) 1,4-Difluorobenzene     | 8.971  | 114   | 343313   | 30.000   | ug/l        | 0.00     |
| 57) Chlorobenzene-d5        | 11.747 | 117   | 302824   | 30.000   | ug/l        | 0.00     |
| System Monitoring Compounds |        |       |          |          |             |          |
| 27) 1,2-Dichloroethane-d4   | 8.442  | 65    | 160464   | 33.650   | ug/l        | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | = 112.167%# |          |
| 60) 4-Bromofluorobenzene    | 12.734 | 95    | 125905   | 25.601   | ug/l        | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | = 85.333%   |          |
| 63) Toluene-d8              | 10.443 | 98    | 430237   | 30.889   | ug/l        | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | = 102.967%  |          |
| Target Compounds            |        |       |          |          |             |          |
|                             |        |       |          |          | Qvalue      |          |
| 4) Vinyl Chloride           | 2.231  | 62    | 1419     | 0.242    | ug/l #      | 1        |
| 13) Acrolein                | 4.044  | 56    | 269      | 0.657    | ug/l #      | 84       |
| 15) Acetone                 | 4.285  | 58    | 458      | 1.075    | ug/l #      | 55       |
| 23) tert-Butyl Alcohol      | 5.315  | 59    | 186      | 0.294    | ug/l #      | 100      |
| 30) 2-Butanone              | 7.329  | 43    | 692      | 0.277    | ug/l #      | 54       |
| 45) 1,4-Dioxane             | 9.091  | 88    | 73       | 1.053    | ug/l #      | 2        |
| 51) Ethyl methacrylate      | 10.446 | 69    | 1727     | 0.264    | ug/l #      | 64       |
| 72) 1,2,3-Trichloropropane  | 12.734 | 75    | 72790    | 16.103   | ug/l        | 1        |
| 77) t-1,4-Dichloro-2-butene | 12.734 | 75    | 72790    | 47.715   | ug/l #      | 4        |
| -----                       |        |       |          |          |             |          |

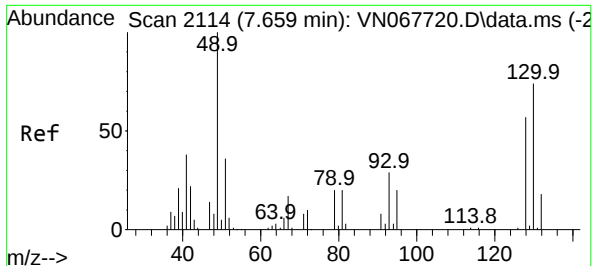
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN071421\  
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Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Jul 15 06:30:06 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

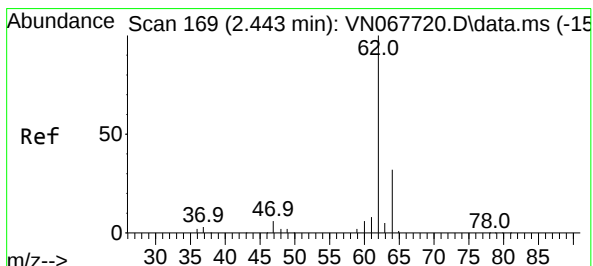
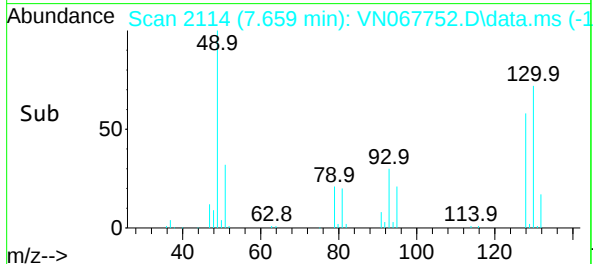
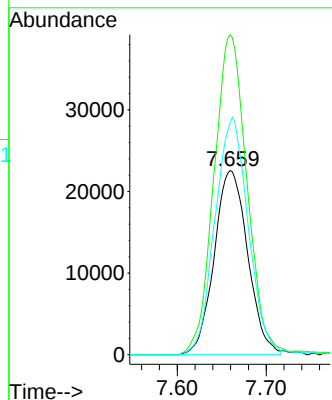
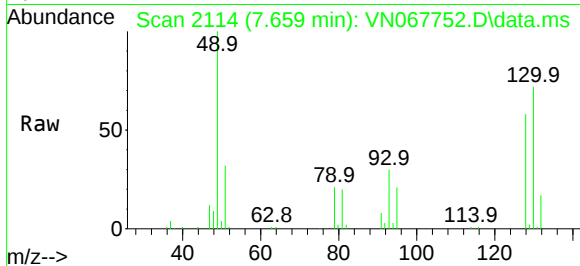




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.659 min Scan# 2114  
Delta R.T. 0.000 min  
Lab File: VN067752.D  
Acq: 14 Jul 2021 18:46

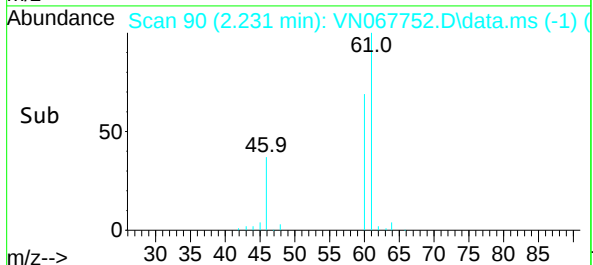
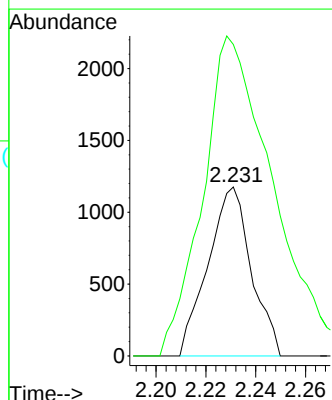
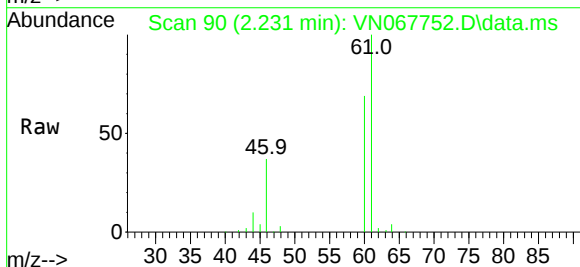
Instrument :  
MSVOA\_N  
ClientSampled :

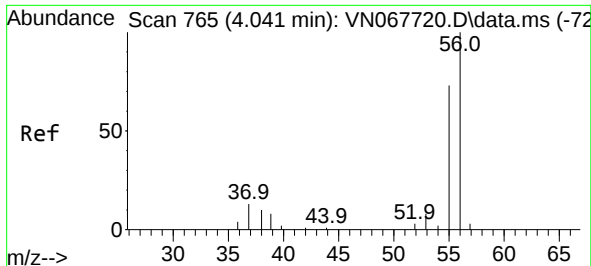
Tgt Ion:128 Resp: 59026  
Ion Ratio Lower Upper  
128 100  
49 170.9 0.0 433.0  
130 127.9 0.0 323.8



#4  
Vinyl Chloride  
Concen: 0.242 ug/l  
RT: 2.231 min Scan# 90  
Delta R.T. -0.212 min  
Lab File: VN067752.D  
Acq: 14 Jul 2021 18:46

Tgt Ion: 62 Resp: 1419  
Ion Ratio Lower Upper  
62 100  
64 150.4 25.9 38.9#

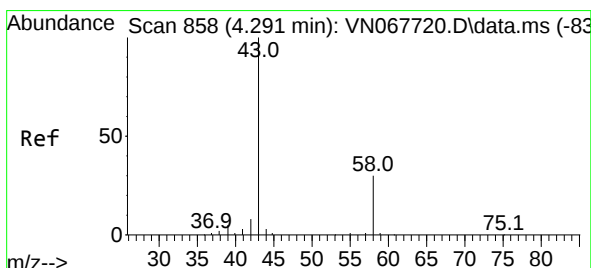
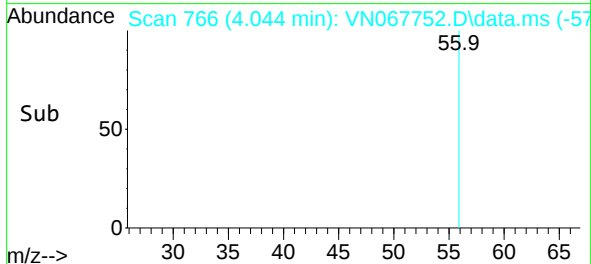
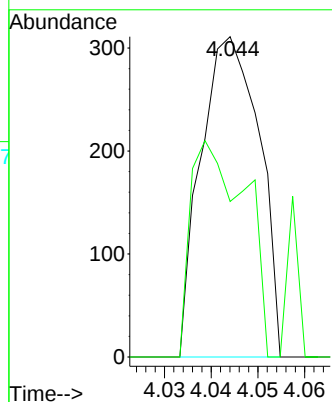
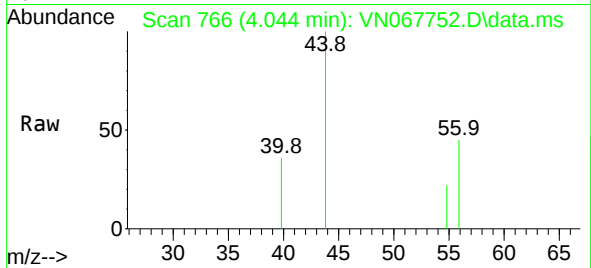




#13  
Acrolein  
Concen: 0.657 ug/l  
RT: 4.044 min Scan# 766  
Delta R.T. 0.003 min  
Lab File: VN067752.D  
Acq: 14 Jul 2021 18:46

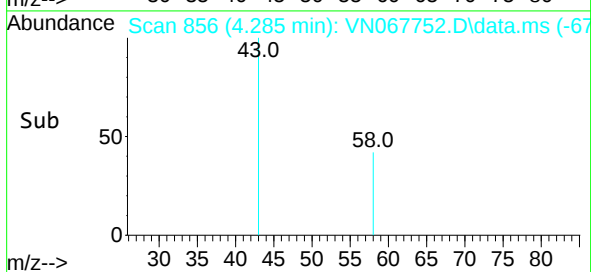
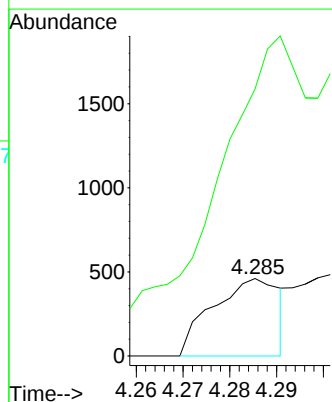
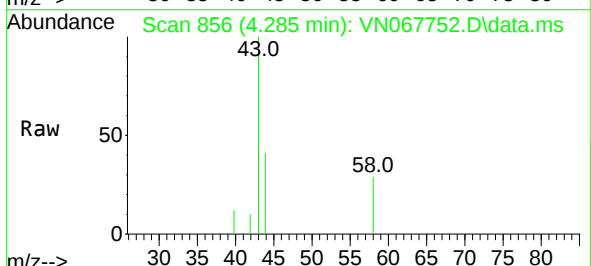
Instrument :  
MSVOA\_N  
ClientSampled :

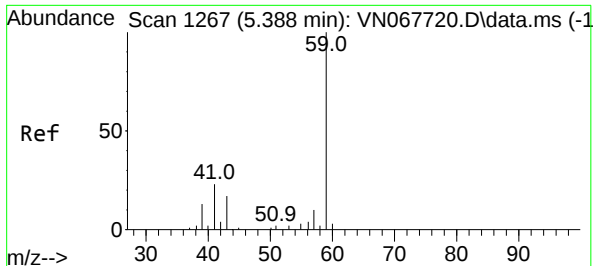
Tgt Ion: 56 Resp: 269  
Ion Ratio Lower Upper  
56 100  
55 20.1 0.2 0.2#



#15  
Acetone  
Concen: 1.075 ug/l  
RT: 4.285 min Scan# 856  
Delta R.T. -0.005 min  
Lab File: VN067752.D  
Acq: 14 Jul 2021 18:46

Tgt Ion: 58 Resp: 458  
Ion Ratio Lower Upper  
58 100  
43 241.0 268.2 402.4#



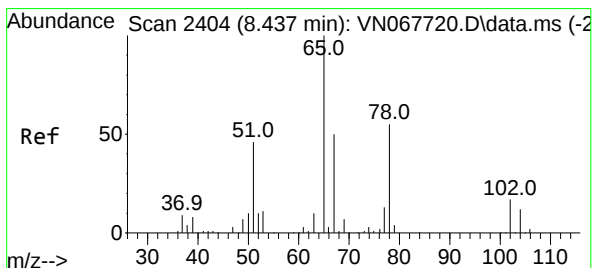
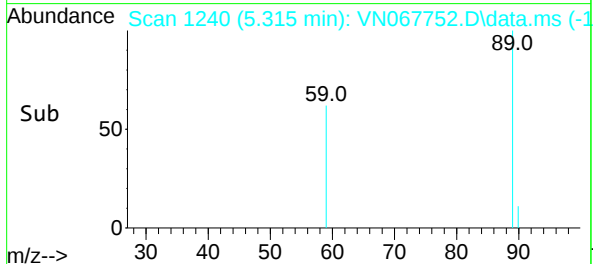
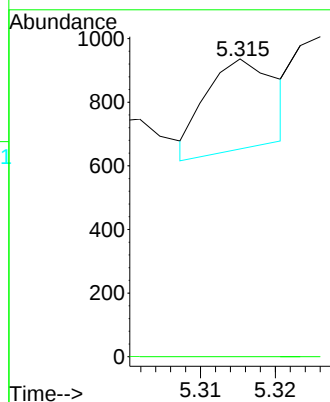
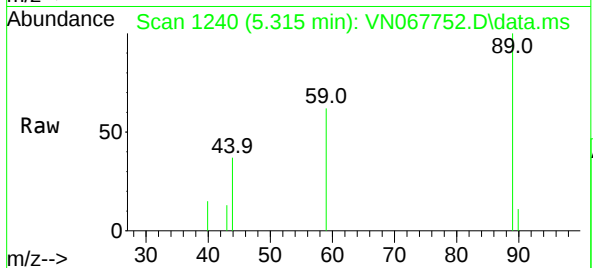


#23

tert-Butyl Alcohol  
Concen: 0.294 ug/l  
RT: 5.315 min Scan# 1240  
Delta R.T. -0.072 min  
Lab File: VN067752.D  
Acq: 14 Jul 2021 18:46

Instrument :  
MSVOA\_N  
ClientSampled :

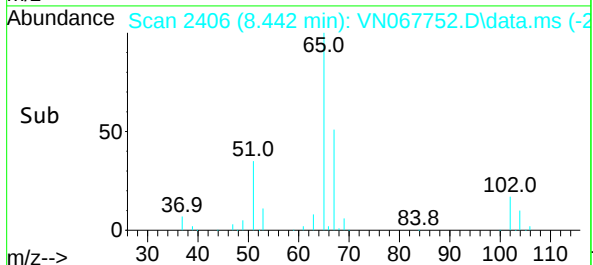
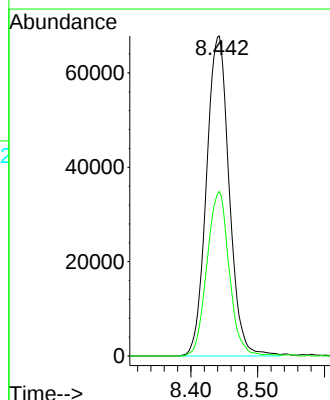
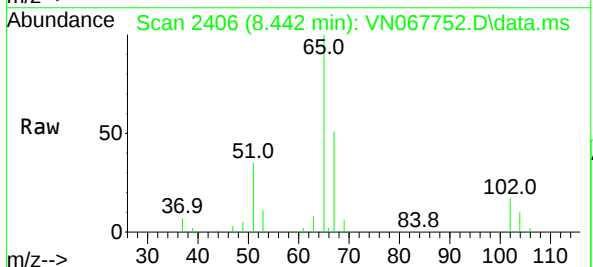
Tgt Ion: 59 Resp: 186  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.0 0.0

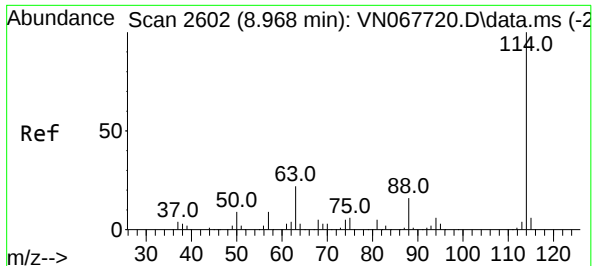


#27

1,2-Dichloroethane-d4  
Concen: 33.650 ug/l  
RT: 8.442 min Scan# 2406  
Delta R.T. 0.005 min  
Lab File: VN067752.D  
Acq: 14 Jul 2021 18:46

Tgt Ion: 65 Resp: 160464  
Ion Ratio Lower Upper  
65 100  
67 50.2 40.6 60.8

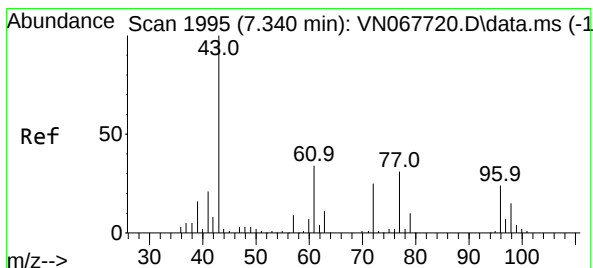
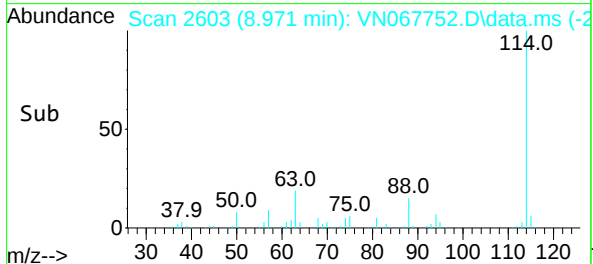
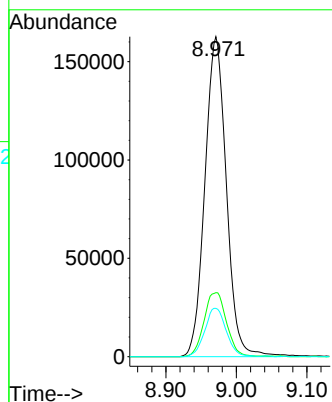
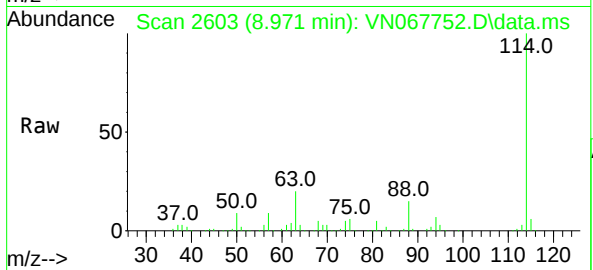




#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 8.971 min Scan# 2603  
Delta R.T. 0.003 min  
Lab File: VN067752.D  
Acq: 14 Jul 2021 18:46

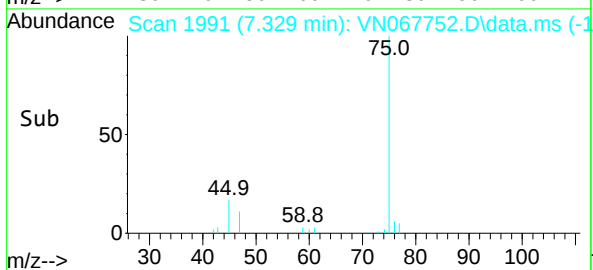
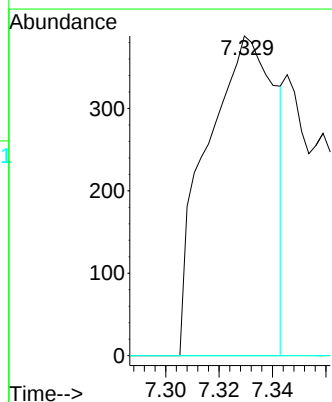
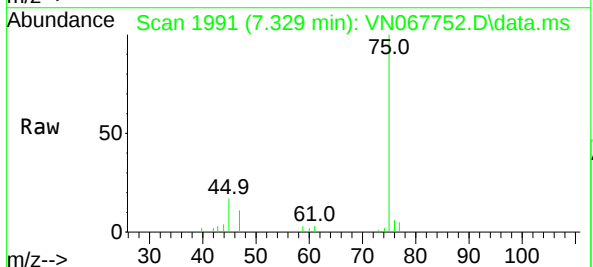
Instrument :  
MSVOA\_N  
ClientSampled :

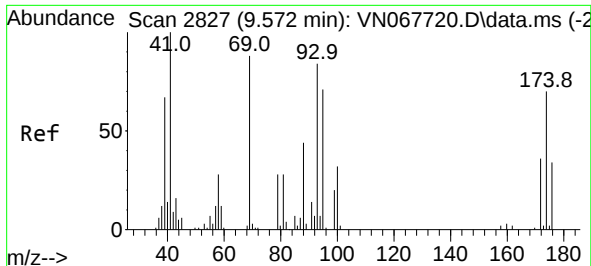
Tgt Ion:114 Resp: 343313  
Ion Ratio Lower Upper  
114 100  
63 21.1 17.2 25.8  
88 15.1 12.4 18.6



#30  
2-Butanone  
Concen: 0.277 ug/l  
RT: 7.329 min Scan# 1991  
Delta R.T. -0.011 min  
Lab File: VN067752.D  
Acq: 14 Jul 2021 18:46

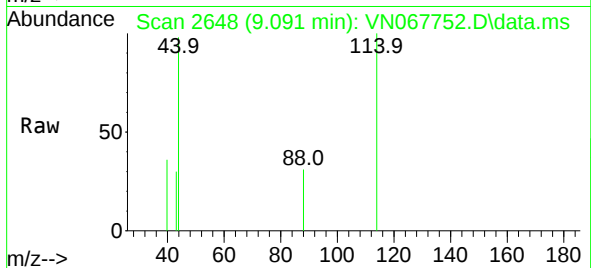
Tgt Ion: 43 Resp: 692  
Ion Ratio Lower Upper  
43 100  
57 0.0 6.6 9.8#  
72 0.0 21.8 32.6#





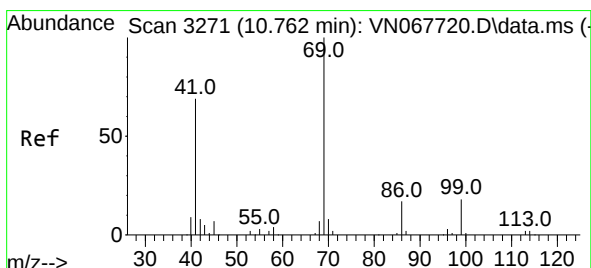
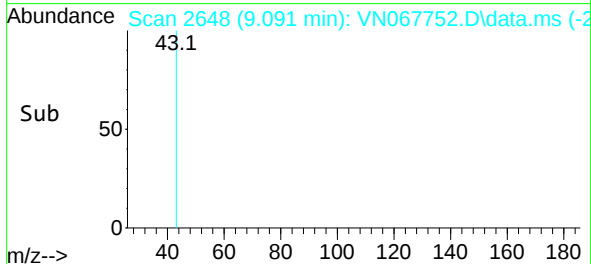
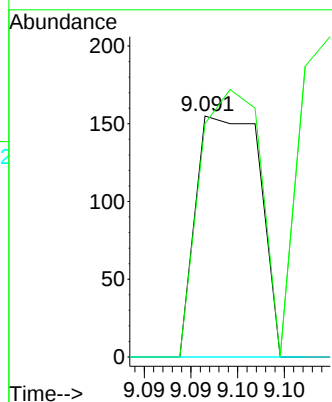
#45  
1,4-Dioxane  
Concen: 1.053 ug/l  
RT: 9.091 min Scan# 2648  
Delta R.T. -0.480 min  
Lab File: VN067752.D  
Acq: 14 Jul 2021 18:46

Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion: 88 Resp: 73

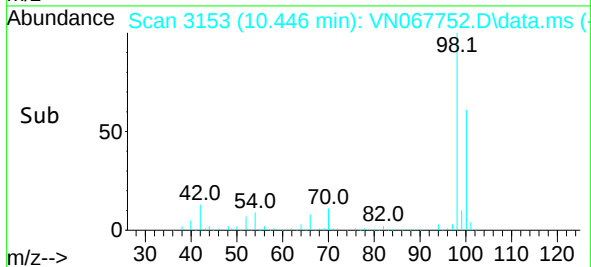
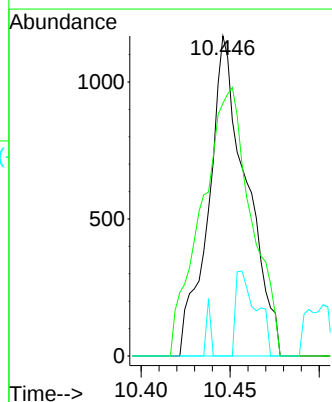
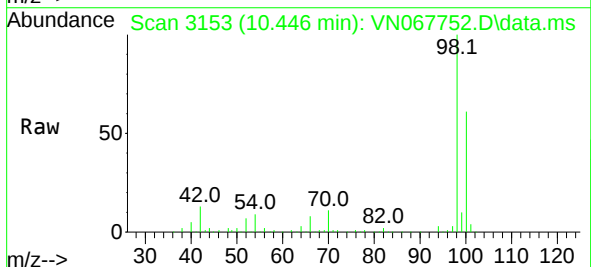
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 106.8 | 26.9  | 40.3# |
| 58  | 0.0   | 52.2  | 78.4# |

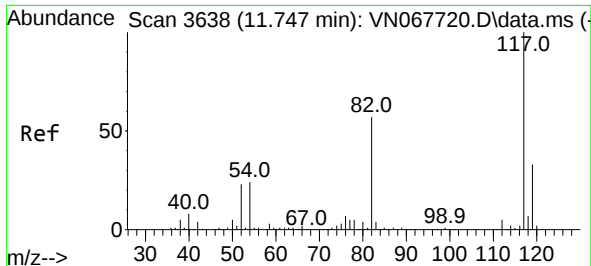


#51  
Ethyl methacrylate  
Concen: 0.264 ug/l  
RT: 10.446 min Scan# 3153  
Delta R.T. -0.316 min  
Lab File: VN067752.D  
Acq: 14 Jul 2021 18:46

Tgt Ion: 69 Resp: 1727

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 78.9  | 34.3  | 102.9 |
| 39  | 0.0   | 23.7  | 71.1# |

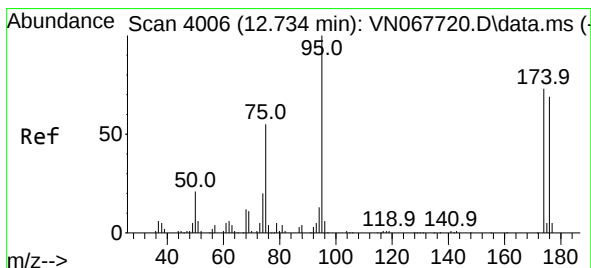
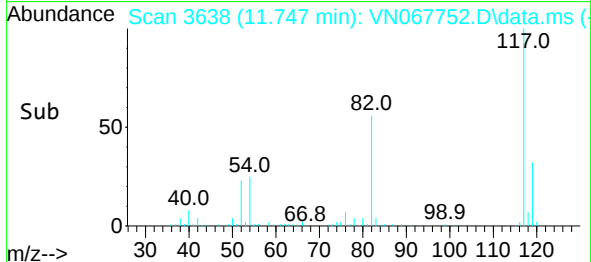
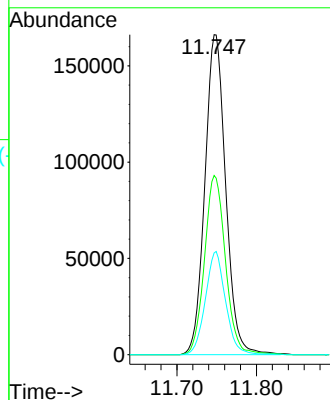
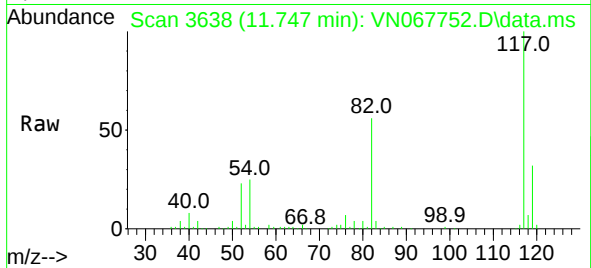




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.747 min Scan# 3638  
Delta R.T. 0.000 min  
Lab File: VN067752.D  
Acq: 14 Jul 2021 18:46

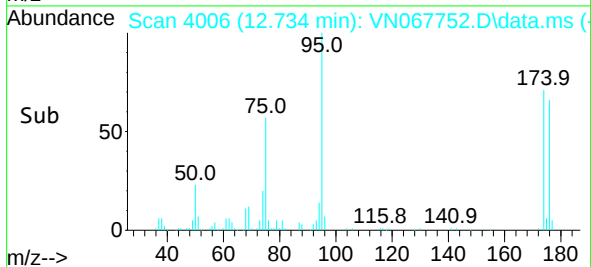
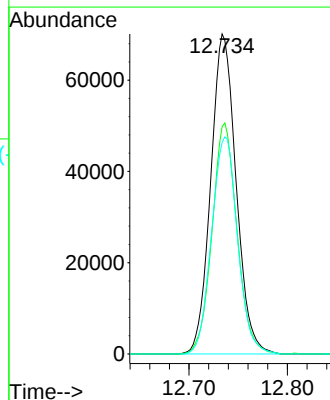
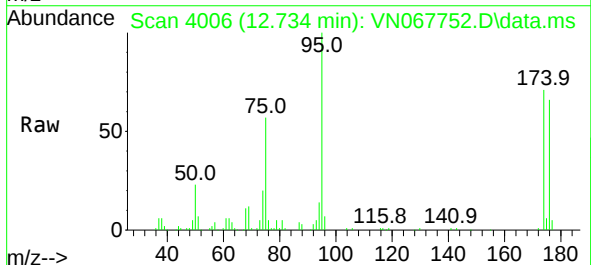
Instrument :  
MSVOA\_N  
ClientSampleId :

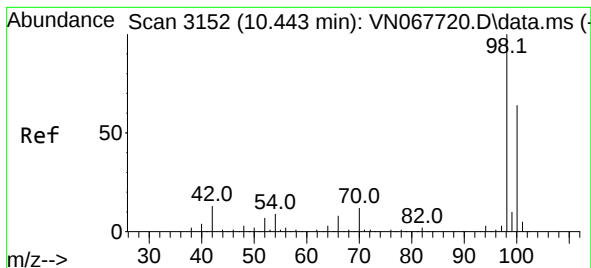
Tgt Ion:117 Resp: 302824  
Ion Ratio Lower Upper  
117 100  
82 56.5 45.4 68.0  
119 31.2 25.7 38.5



#60  
4-Bromofluorobenzene  
Concen: 25.601 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. 0.000 min  
Lab File: VN067752.D  
Acq: 14 Jul 2021 18:46

Tgt Ion: 95 Resp: 125905  
Ion Ratio Lower Upper  
95 100  
174 70.8 57.1 85.7  
176 69.3 54.6 81.8

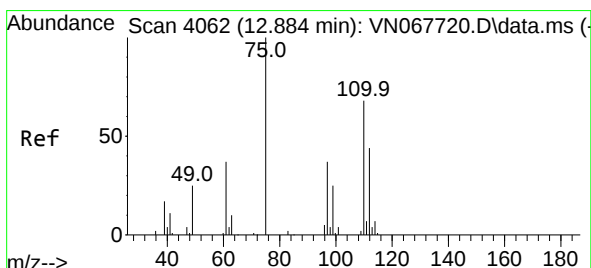
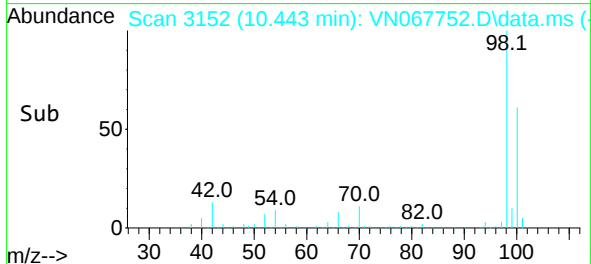
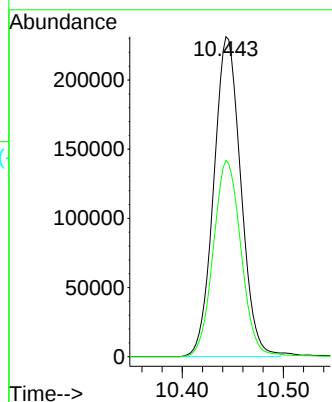
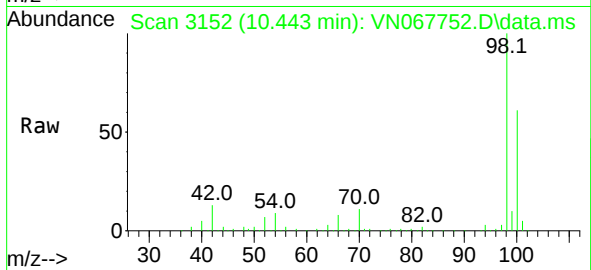




#63  
Toluene-d8  
Concen: 30.889 ug/l  
RT: 10.443 min Scan# 3152  
Delta R.T. 0.000 min  
Lab File: VN067752.D  
Acq: 14 Jul 2021 18:46

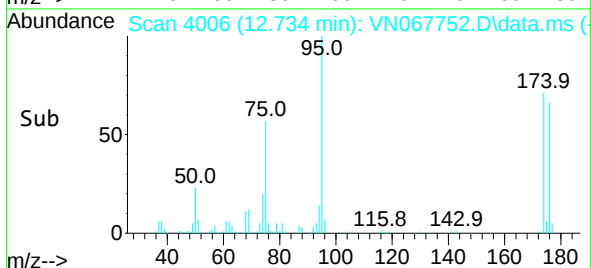
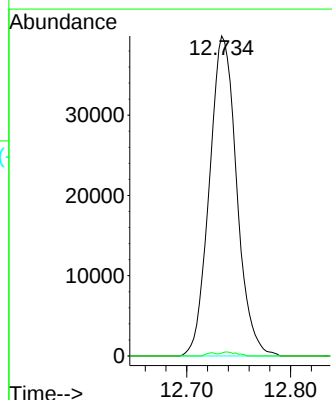
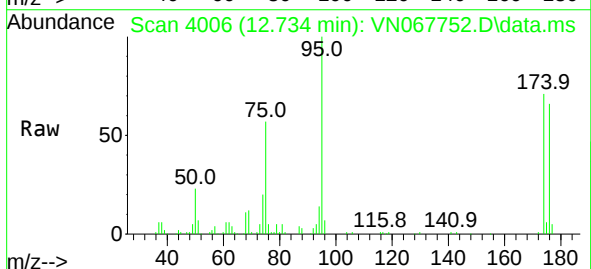
Instrument :  
MSVOA\_N  
ClientSampled :

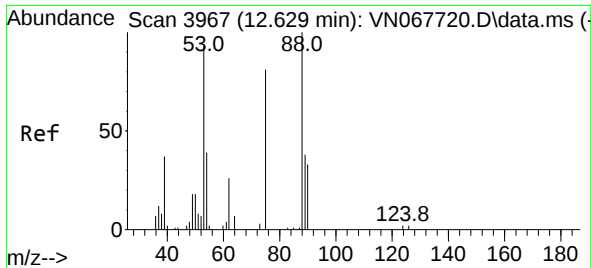
Tgt Ion: 98 Resp: 430237  
Ion Ratio Lower Upper  
98 100  
100 62.8 51.0 76.4



#72  
1,2,3-Trichloropropane  
Concen: 16.103 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. -0.150 min  
Lab File: VN067752.D  
Acq: 14 Jul 2021 18:46

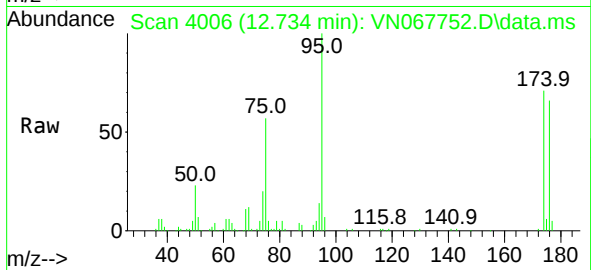
Tgt Ion: 75 Resp: 72790  
Ion Ratio Lower Upper  
75 100  
77 0.4 0.0 365.2





#77  
t-1,4-Dichloro-2-butene  
Concen: 47.715 ug/l  
RT: 12.734 min Scan# 4006  
Delta R.T. 0.105 min  
Lab File: VN067752.D  
Acq: 14 Jul 2021 18:46

Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion: 75 Resp: 72790  
Ion Ratio Lower Upper  
75 100  
53 0.0 57.0 171.0#  
89 0.0 24.7 74.1#

