

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN050721\  
 Data File : VN067040.D  
 Acq On : 7 May 2021 4:22  
 Operator : JC/MD  
 Sample : M2274-04 5X  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 14B-4

Quant Time: May 07 07:33:49 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N050721W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri May 07 07:26:20 2021  
 Response via : Initial Calibration

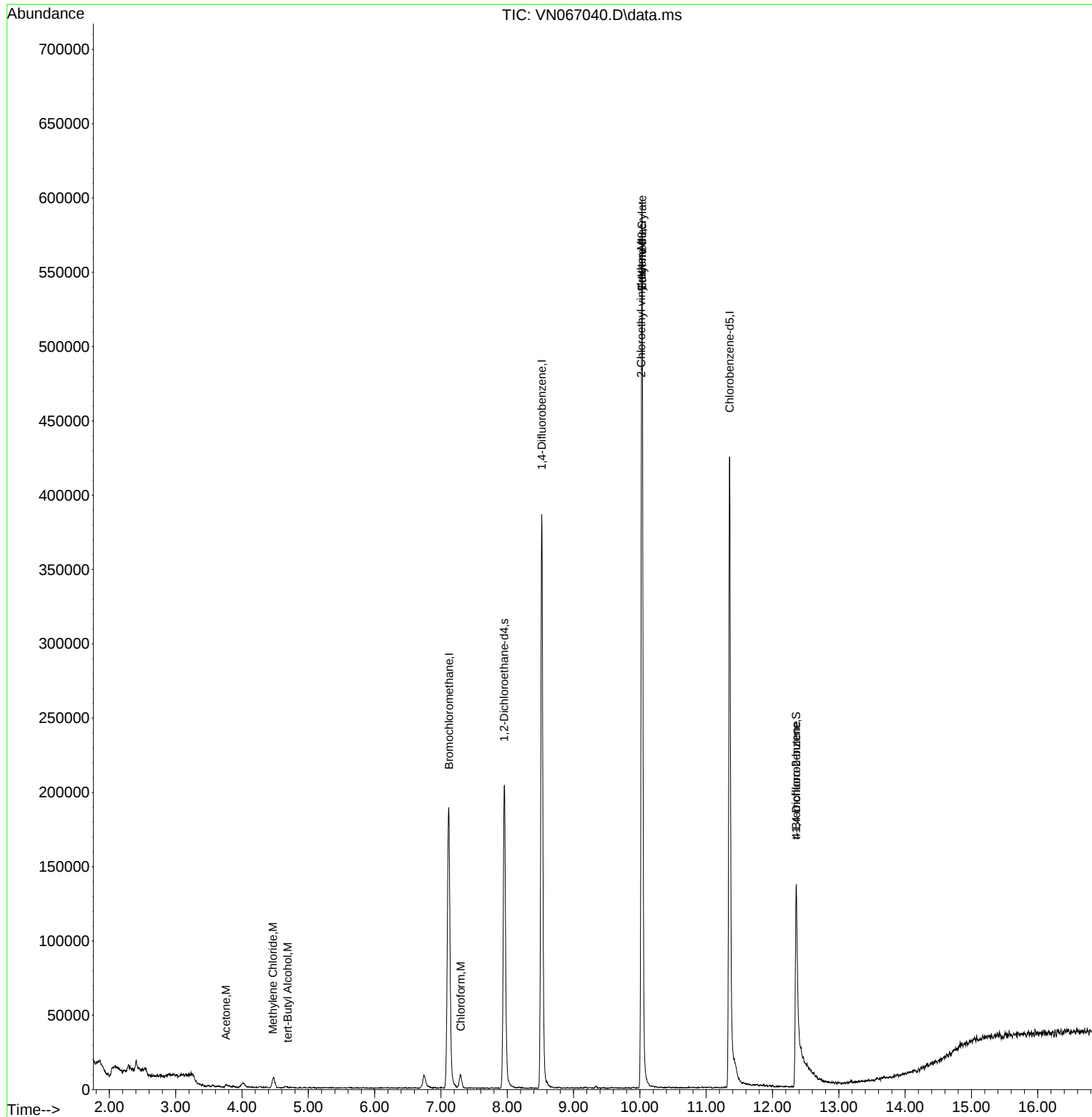
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 7.120  | 128   | 71806    | 30.00    | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene       | 8.520  | 114   | 331593   | 30.00    | ug/l   | 0.00     |
| 57) Chlorobenzene-d5          | 11.352 | 117   | 267902   | 30.00    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4     | 7.954  | 65    | 188764   | 30.00    | ug/l   | 0.00     |
| Spiked Amount                 | 30.000 | Range | 91 - 110 | Recovery | =      | 100.00%  |
| 60) 4-Bromofluorobenzene      | 12.358 | 95    | 79140    | 17.76    | ug/l   | 0.00     |
| Spiked Amount                 | 30.000 | Range | 63 - 112 | Recovery | =      | 59.20%#  |
| 63) Toluene-d8                | 10.030 | 98    | 429479   | 32.36    | ug/l   | 0.00     |
| Spiked Amount                 | 30.000 | Range | 91 - 112 | Recovery | =      | 107.87%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 15) Acetone                   | 3.757  | 58    | 442      | 0.66     | ug/l # | 1        |
| 18) Methylene Chloride        | 4.465  | 84    | 2411     | 0.43     | ug/l # | 91       |
| 23) tert-Butyl Alcohol        | 4.688  | 59    | 222      | 0.24     | ug/l # | 100      |
| 25) Chloroform                | 7.297  | 83    | 9878     | 1.05     | ug/l   | 85       |
| 51) Ethyl methacrylate        | 10.033 | 69    | 2010     | 0.34     | ug/l   | 70       |
| 55) 2-Chloroethyl vinyl ether | 10.022 | 63    | 308      | 0.28     | ug/l # | 1        |
| 77) t-1,4-Dichloro-2-butene   | 12.358 | 75    | 37283    | 25.01    | ug/l # | 16       |
| -----                         |        |       |          |          |        |          |

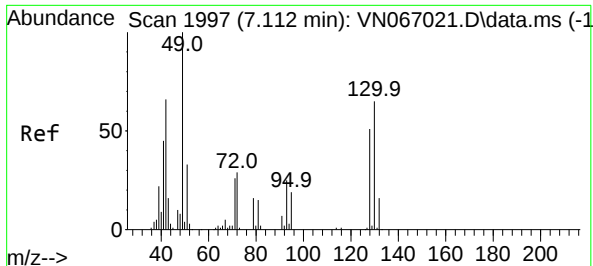
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : M2274-04 5X  
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Instrument :  
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ClientSampleId :  
14B-4

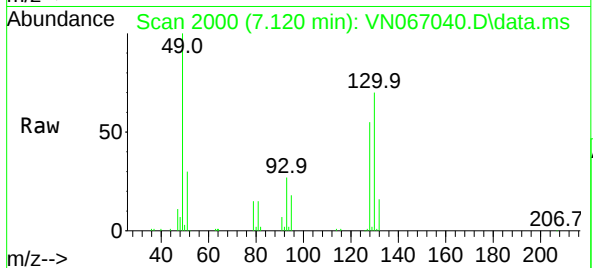
Quant Time: May 07 07:33:49 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N050721W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri May 07 07:26:20 2021  
Response via : Initial Calibration



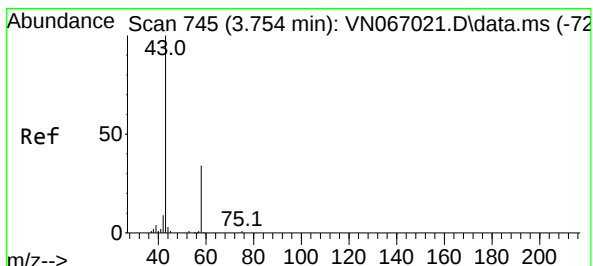
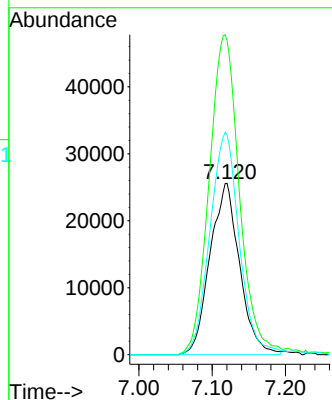
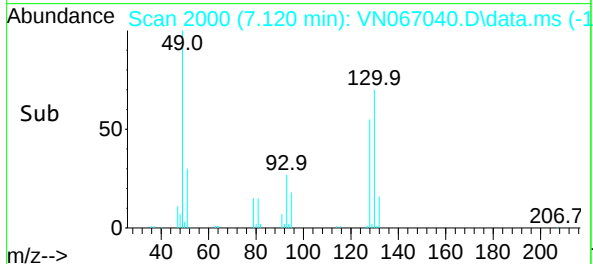


#1  
Bromochloromethane  
Concen: 30.00 ug/l  
RT: 7.120 min Scan# 2000  
Delta R.T. 0.008 min  
Lab File: VN067040.D  
Acq: 7 May 2021 4:22

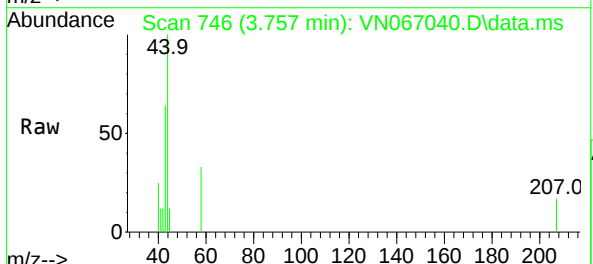
Instrument :  
MSVOA\_N  
ClientSampled :  
14B-4



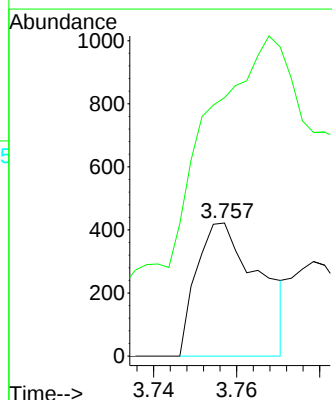
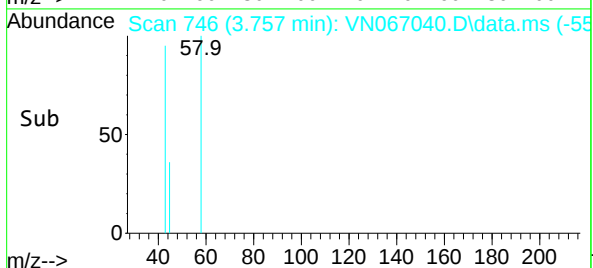
Tgt Ion:128 Resp: 71806  
Ion Ratio Lower Upper  
128 100  
49 189.0 0.0 486.3  
130 128.7 0.0 326.0

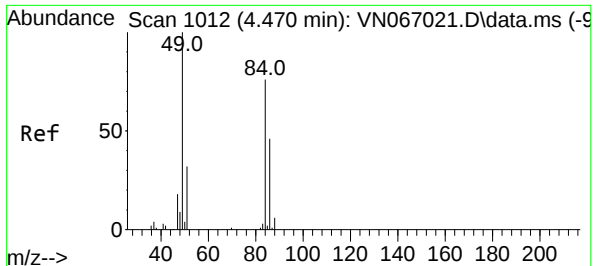


#15  
Acetone  
Concen: 0.66 ug/l  
RT: 3.757 min Scan# 746  
Delta R.T. 0.003 min  
Lab File: VN067040.D  
Acq: 7 May 2021 4:22



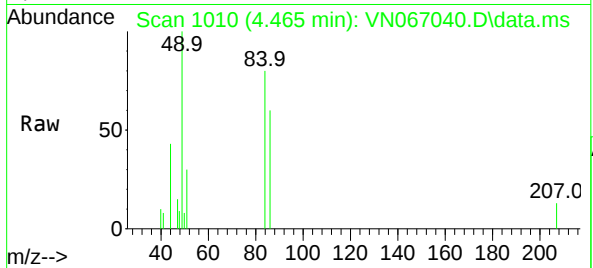
Tgt Ion: 58 Resp: 442  
Ion Ratio Lower Upper  
58 100  
43 94.3 235.0 352.6#



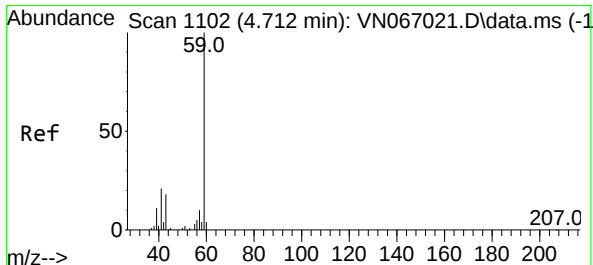
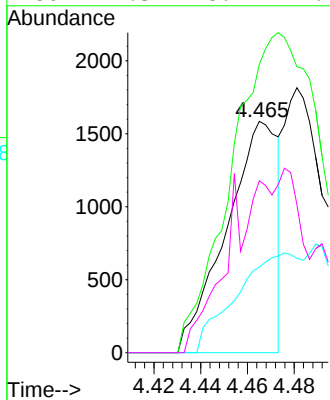
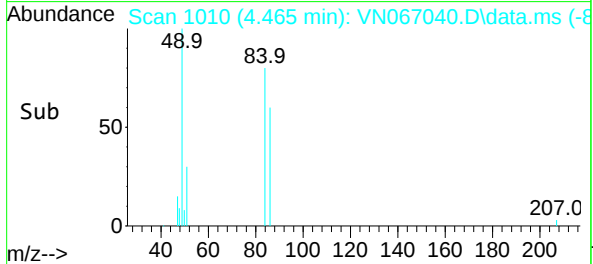


#18  
Methylene Chloride  
Concen: 0.43 ug/l  
RT: 4.465 min Scan# 1010  
Delta R.T. -0.005 min  
Lab File: VN067040.D  
Acq: 7 May 2021 4:22

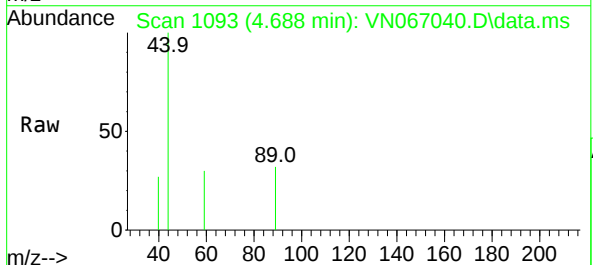
Instrument :  
MSVOA\_N  
ClientSampled :  
14B-4



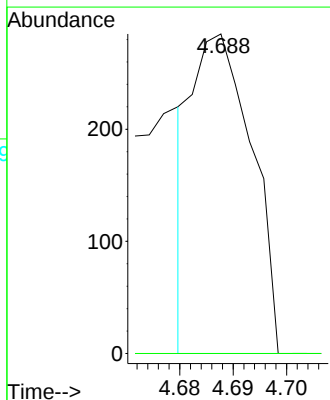
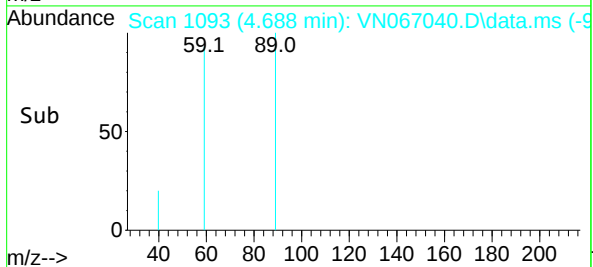
Tgt Ion: 84 Resp: 2411  
Ion Ratio Lower Upper  
84 100  
49 124.7 105.0 157.6  
51 37.0 33.3 49.9  
86 74.3 48.2 72.4#

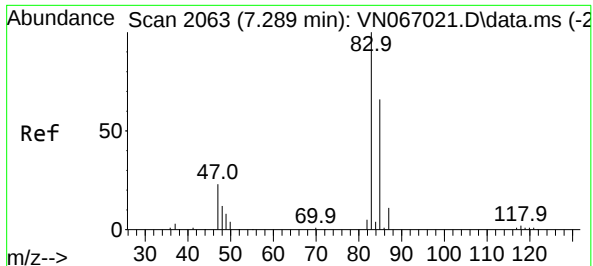


#23  
tert-Butyl Alcohol  
Concen: 0.24 ug/l  
RT: 4.688 min Scan# 1093  
Delta R.T. -0.024 min  
Lab File: VN067040.D  
Acq: 7 May 2021 4:22



Tgt Ion: 59 Resp: 222  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.0 0.0

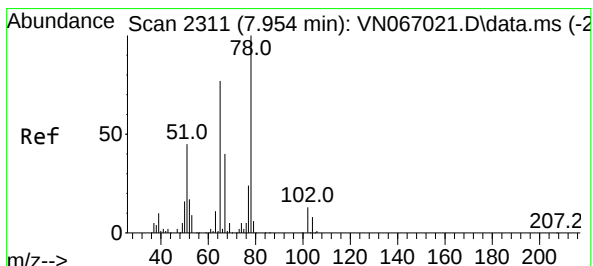
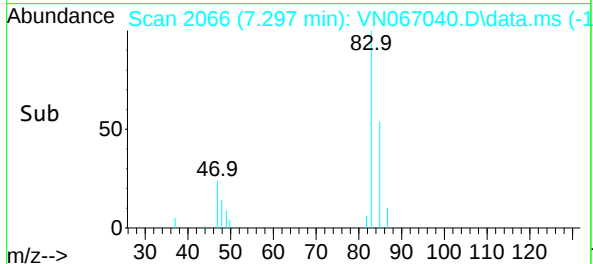
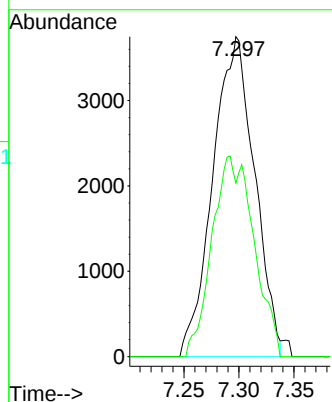
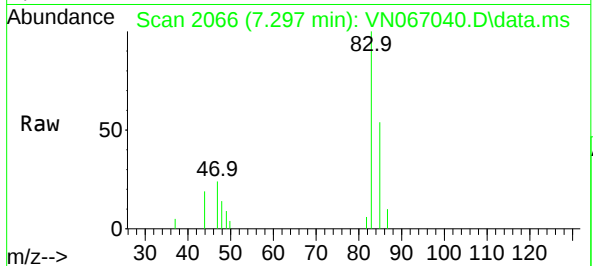




#25  
Chloroform  
Concen: 1.05 ug/l  
RT: 7.297 min Scan# 2066  
Delta R.T. 0.008 min  
Lab File: VN067040.D  
Acq: 7 May 2021 4:22

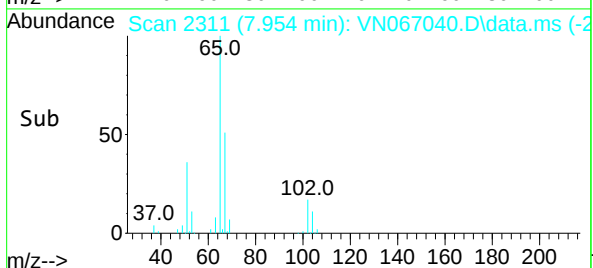
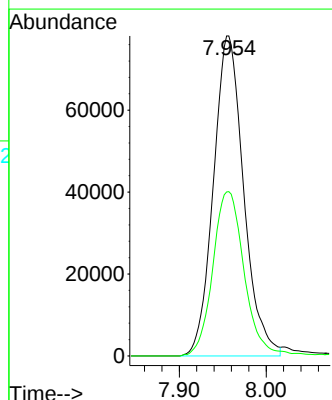
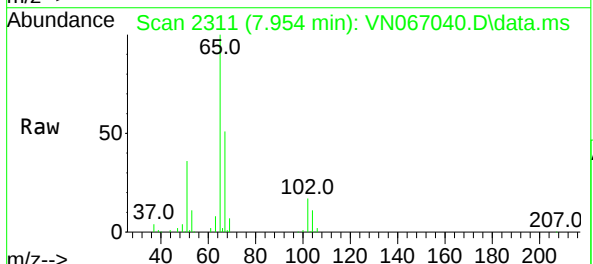
Instrument :  
MSVOA\_N  
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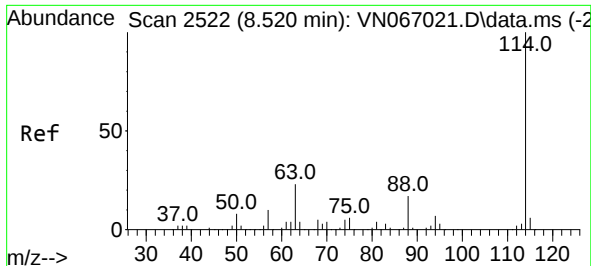
Tgt Ion: 83 Resp: 9878  
Ion Ratio Lower Upper  
83 100  
85 54.3 53.0 79.6



#27  
1,2-Dichloroethane-d4  
Concen: 30.00 ug/l  
RT: 7.954 min Scan# 2311  
Delta R.T. 0.000 min  
Lab File: VN067040.D  
Acq: 7 May 2021 4:22

Tgt Ion: 65 Resp: 188764  
Ion Ratio Lower Upper  
65 100  
67 53.1 41.6 62.4

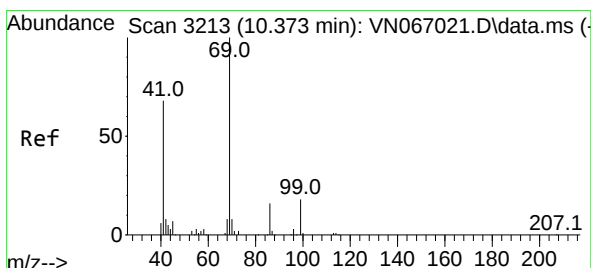
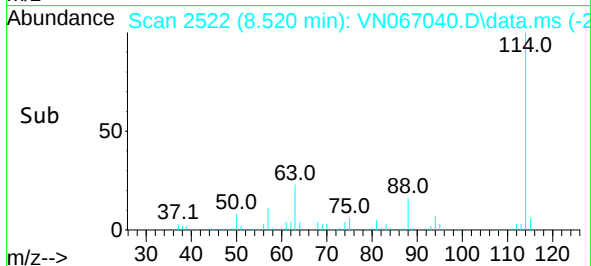
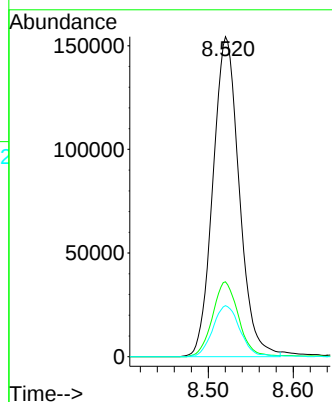
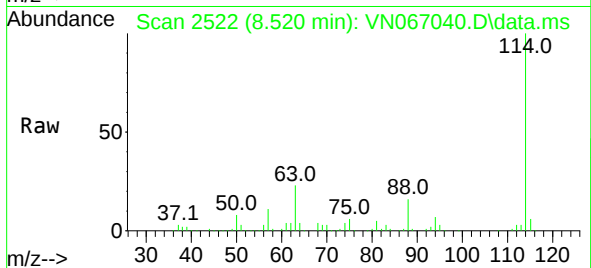




#28  
1,4-Difluorobenzene  
Concen: 30.00 ug/l  
RT: 8.520 min Scan# 2522  
Delta R.T. 0.000 min  
Lab File: VN067040.D  
Acq: 7 May 2021 4:22

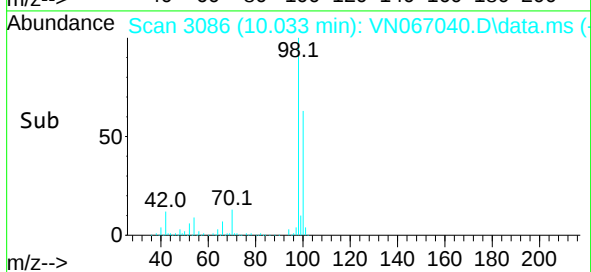
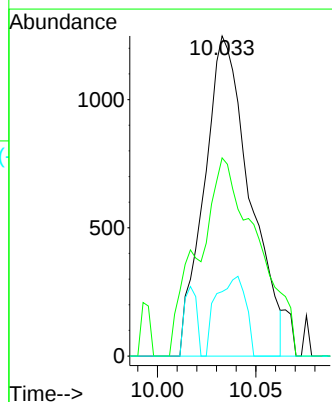
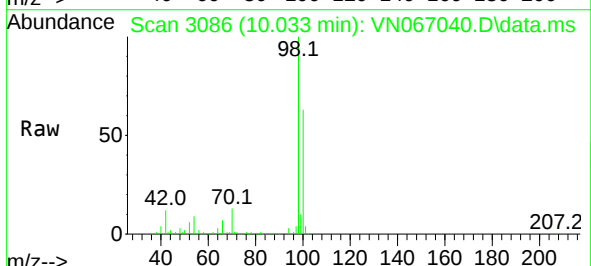
Instrument :  
MSVOA\_N  
ClientSampled :  
14B-4

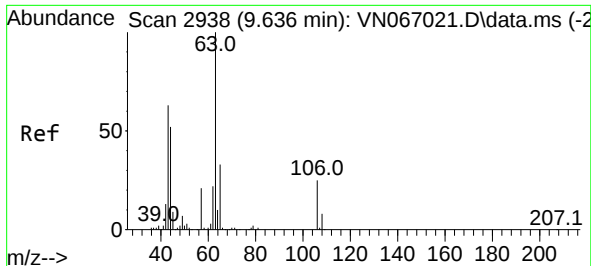
Tgt Ion:114 Resp: 331593  
Ion Ratio Lower Upper  
114 100  
63 23.2 18.8 28.2  
88 16.4 13.8 20.6



#51  
Ethyl methacrylate  
Concen: 0.34 ug/l  
RT: 10.033 min Scan# 3086  
Delta R.T. -0.340 min  
Lab File: VN067040.D  
Acq: 7 May 2021 4:22

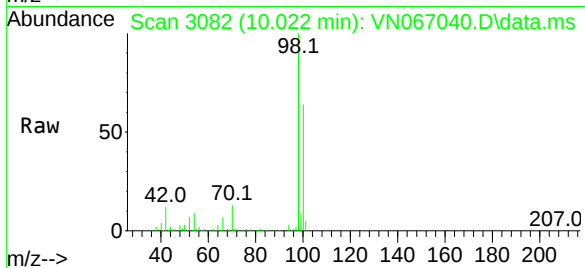
Tgt Ion: 69 Resp: 2010  
Ion Ratio Lower Upper  
69 100  
41 42.0 33.9 101.7  
39 20.1 17.3 51.9



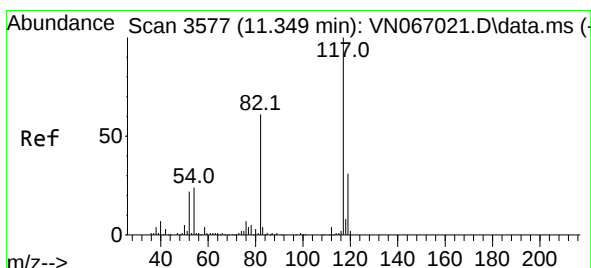
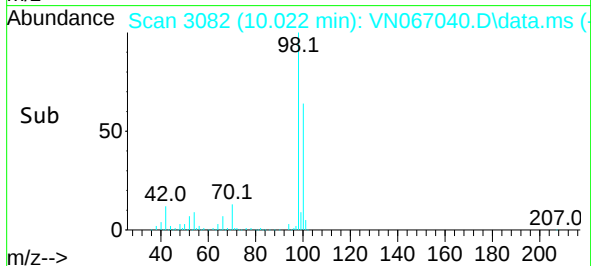
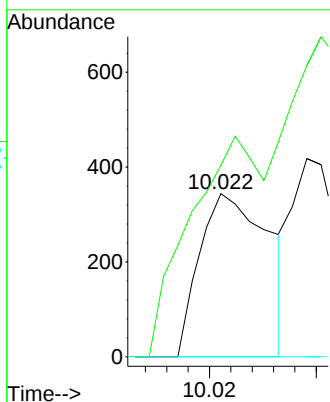


#55  
2-Chloroethyl vinyl ether  
Concen: 0.28 ug/l  
RT: 10.022 min Scan# 3082  
Delta R.T. 0.386 min  
Lab File: VN067040.D  
Acq: 7 May 2021 4:22

Instrument :  
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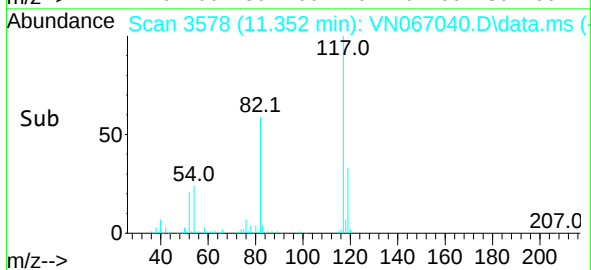
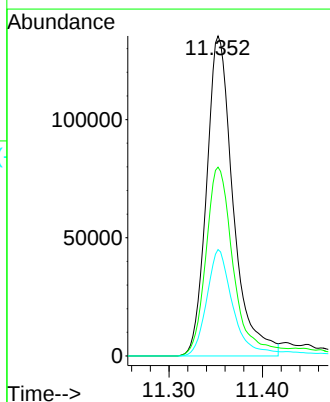
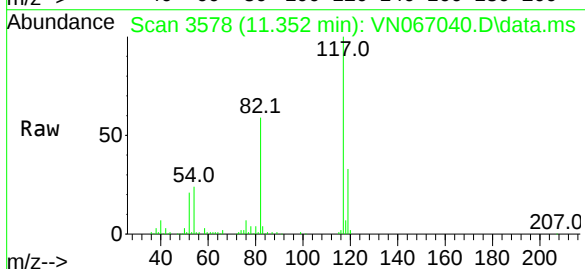


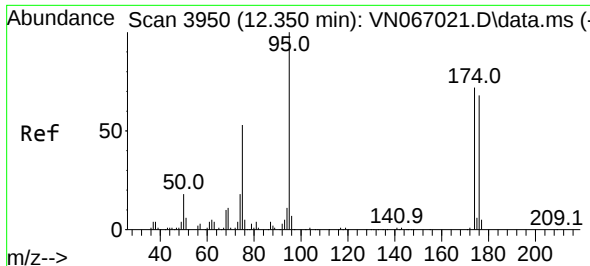
Tgt Ion: 63 Resp: 308  
Ion Ratio Lower Upper  
63 100  
65 142.2 25.4 38.2#  
106 0.0 18.9 28.3#



#57  
Chlorobenzene-d5  
Concen: 30.00 ug/l  
RT: 11.352 min Scan# 3578  
Delta R.T. 0.003 min  
Lab File: VN067040.D  
Acq: 7 May 2021 4:22

Tgt Ion: 117 Resp: 267902  
Ion Ratio Lower Upper  
117 100  
82 61.4 49.3 73.9  
119 32.8 25.5 38.3

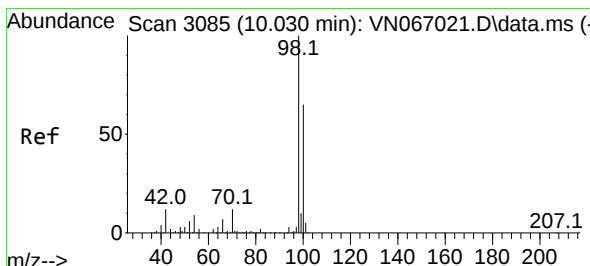
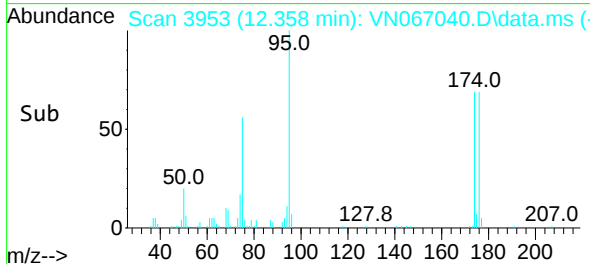
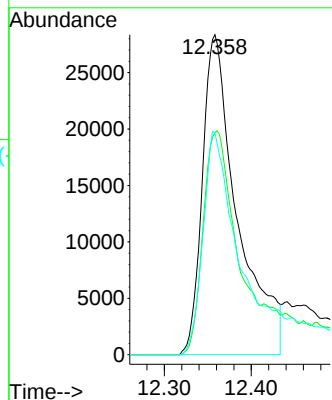
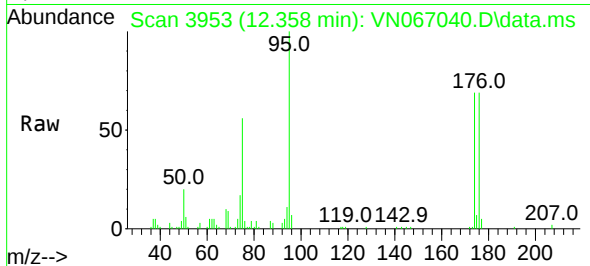




#60  
4-Bromofluorobenzene  
Concen: 17.76 ug/l  
RT: 12.358 min Scan# 3953  
Delta R.T. 0.008 min  
Lab File: VN067040.D  
Acq: 7 May 2021 4:22

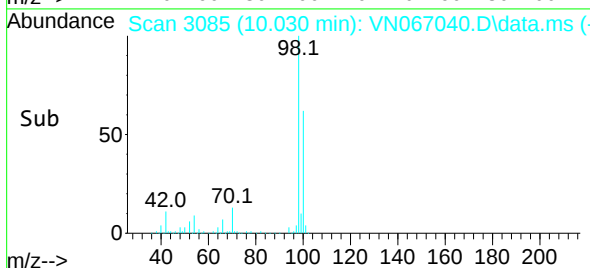
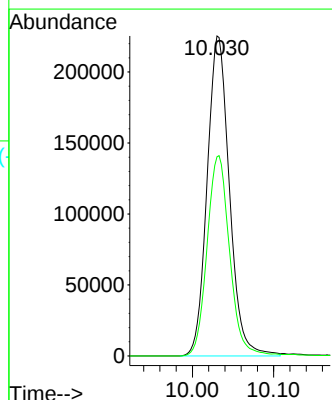
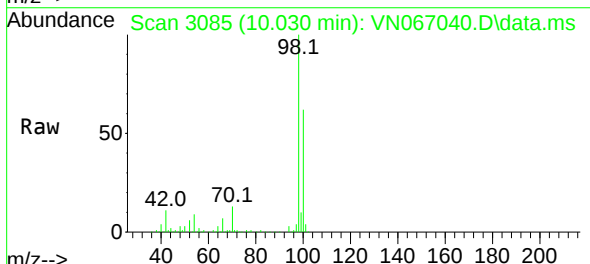
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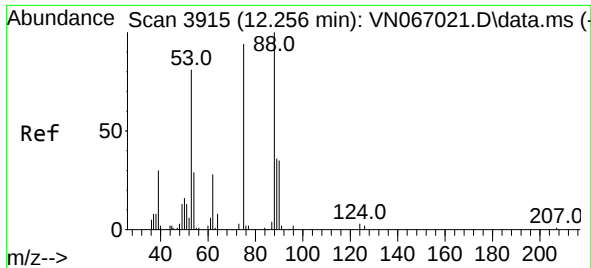
Tgt Ion: 95 Resp: 79140  
Ion Ratio Lower Upper  
95 100  
174 65.6 57.2 85.8  
176 68.9 54.5 81.7



#63  
Toluene-d8  
Concen: 32.36 ug/l  
RT: 10.030 min Scan# 3085  
Delta R.T. 0.000 min  
Lab File: VN067040.D  
Acq: 7 May 2021 4:22

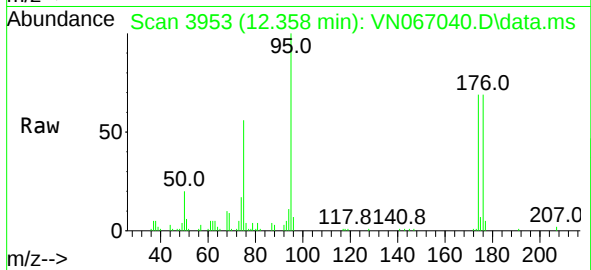
Tgt Ion: 98 Resp: 429479  
Ion Ratio Lower Upper  
98 100  
100 63.0 51.1 76.7





#77  
 t-1,4-Dichloro-2-butene  
 Concen: 25.01 ug/l  
 RT: 12.358 min Scan# 3953  
 Delta R.T. 0.102 min  
 Lab File: VN067040.D  
 Acq: 7 May 2021 4:22

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
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Tgt Ion: 75 Resp: 37283  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 43.1 129.4#  
 89 0.0 18.8 56.4#

