

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042123\  
 Data File : VN077427.D  
 Acq On : 21 Apr 2023 17:14  
 Operator : JC\MD  
 Sample : 02468-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SUMP-PUMP-GW-SAMPLE

Quant Time: Apr 22 02:40:42 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N040723W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Apr 07 13:04:49 2023  
 Response via : Initial Calibration

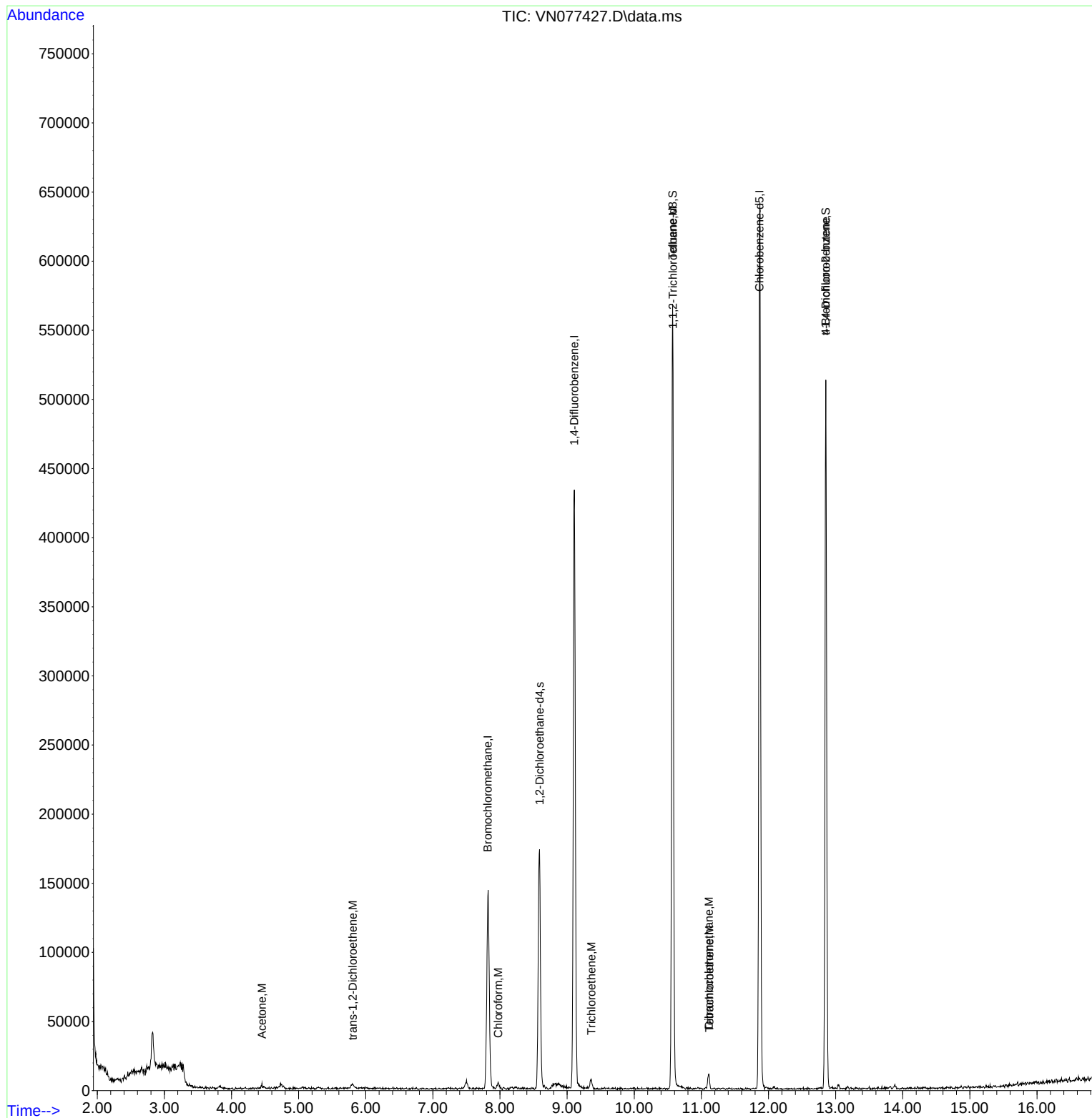
| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Bromochloromethane        | 7.819  | 128   | 54928    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.107  | 114   | 396981   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.866 | 117   | 400128   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.589  | 65    | 140306   | 30.118   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 110 | Recovery | =      | 100.400% |
| 60) 4-Bromofluorobenzene     | 12.854 | 95    | 178780   | 25.840   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 63 - 112 | Recovery | =      | 86.133%  |
| 63) Toluene-d8               | 10.572 | 98    | 417229   | 29.661   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 112 | Recovery | =      | 98.867%  |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 15) Acetone                  | 4.454  | 58    | 921      | 0.861    | ug/l # | 18       |
| 19) trans-1,2-Dichloroethene | 5.807  | 96    | 1942     | 0.309    | ug/l # | 51       |
| 25) Chloroform               | 7.972  | 83    | 3605     | 0.296    | ug/l   | 86       |
| 37) Trichloroethene          | 9.360  | 130   | 2220     | 0.341    | ug/l   | 93       |
| 50) 1,1,2-Trichloroethane    | 10.577 | 97    | 12278    | 1.776    | ug/l # | 1        |
| 53) Dibromochloromethane     | 11.113 | 129   | 2253     | 0.309    | ug/l # | 11       |
| 61) Tetrachloroethene        | 11.119 | 164   | 964      | 0.203    | ug/l # | 61       |
| 77) t-1,4-Dichloro-2-butene  | 12.854 | 75    | 95311    | 29.204   | ug/l # | 18       |
| -----                        |        |       |          |          |        |          |

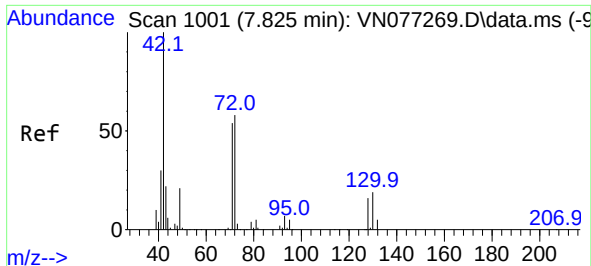
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
SUMP-PUMP-GW-SAMPLE

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N040723W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Apr 07 13:04:49 2023  
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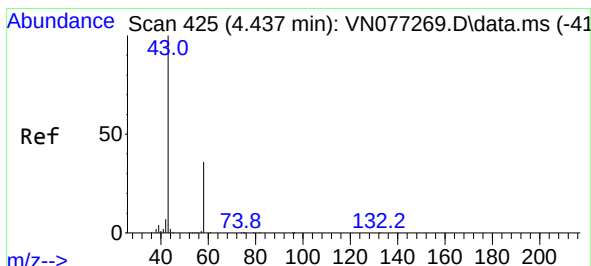
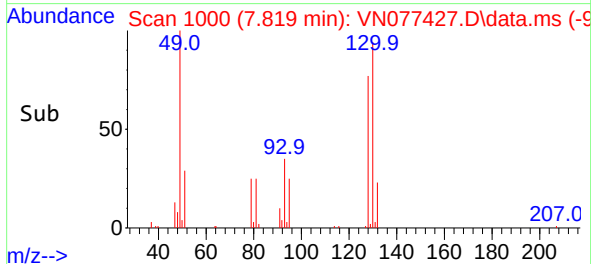
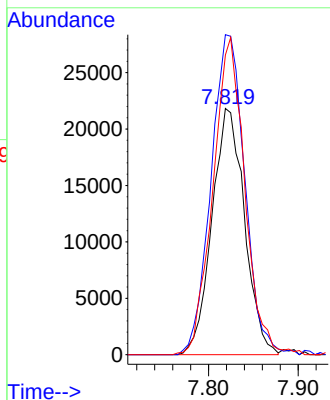
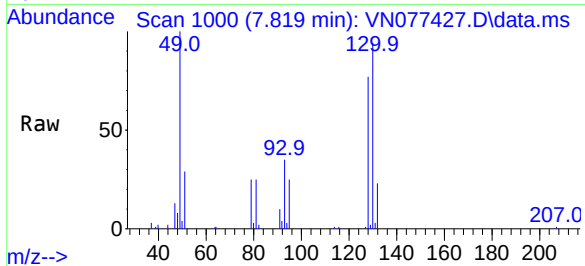




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.819 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN077427.D  
Acq: 21 Apr 2023 17:14

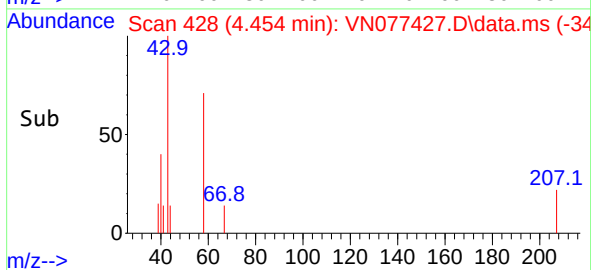
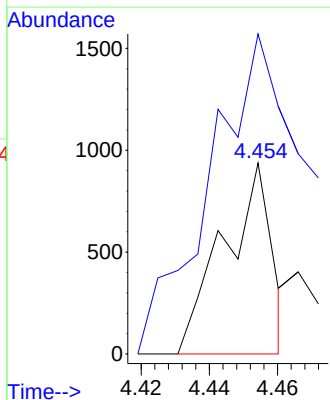
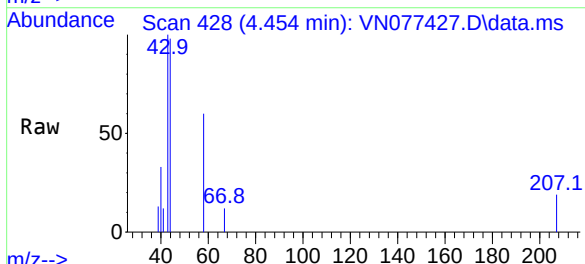
Instrument :  
MSVOA\_N  
ClientSampleId :  
SUMP-PUMP-GW-SAMPLE

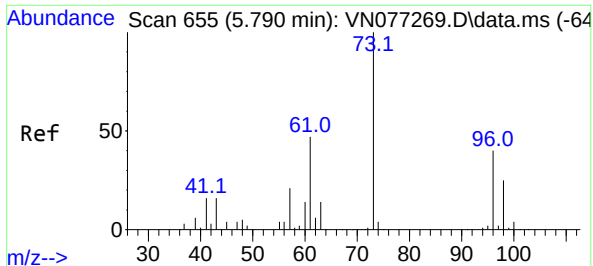
Tgt Ion:128 Resp: 54928  
Ion Ratio Lower Upper  
128 100  
49 134.5 0.0 379.5  
130 125.2 0.0 322.8



#15  
Acetone  
Concen: 0.861 ug/l  
RT: 4.454 min Scan# 428  
Delta R.T. 0.017 min  
Lab File: VN077427.D  
Acq: 21 Apr 2023 17:14

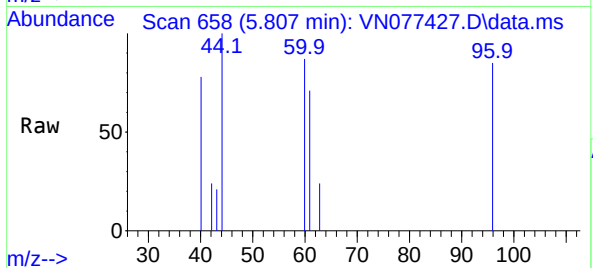
Tgt Ion: 58 Resp: 921  
Ion Ratio Lower Upper  
58 100  
43 123.9 220.9 331.3#



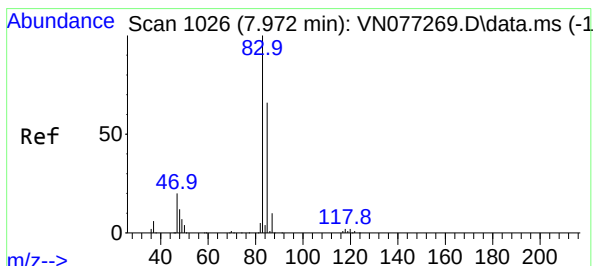
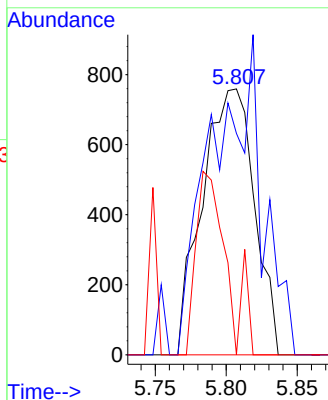
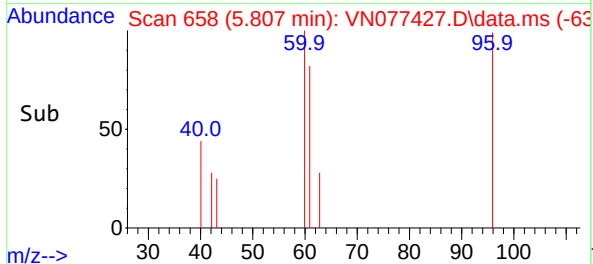


#19  
trans-1,2-Dichloroethene  
Concen: 0.309 ug/l  
RT: 5.807 min Scan# 61  
Delta R.T. 0.017 min  
Lab File: VN077427.D  
Acq: 21 Apr 2023 17:14

Instrument :  
MSVOA\_N  
ClientSampleId :  
SUMP-PUMP-GW-SAMPLE

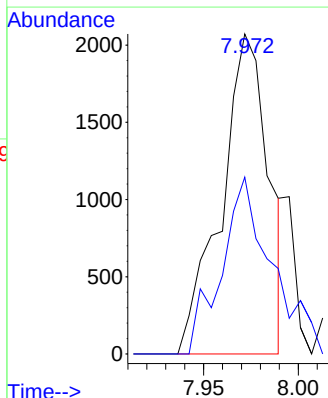
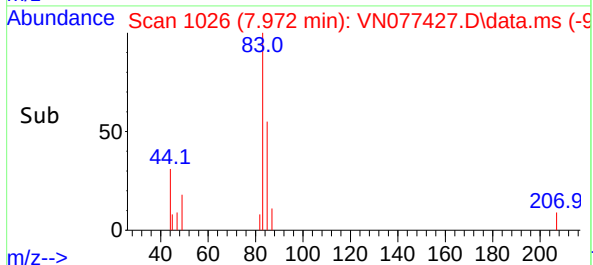
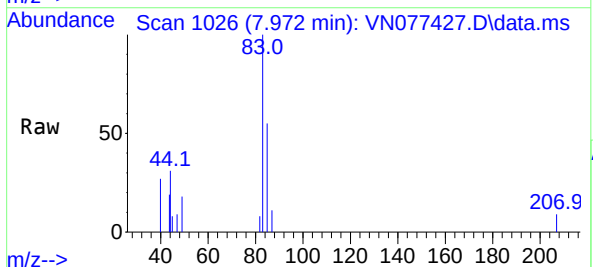


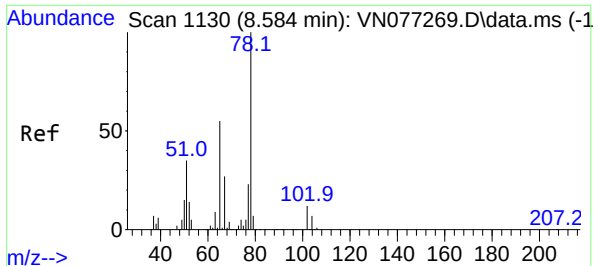
Tgt Ion: 96 Resp: 1942  
Ion Ratio Lower Upper  
96 100  
61 83.3 94.5 141.7#  
98 0.0 49.8 74.8#



#25  
Chloroform  
Concen: 0.296 ug/l  
RT: 7.972 min Scan# 1026  
Delta R.T. -0.000 min  
Lab File: VN077427.D  
Acq: 21 Apr 2023 17:14

Tgt Ion: 83 Resp: 3605  
Ion Ratio Lower Upper  
83 100  
85 55.3 52.9 79.3

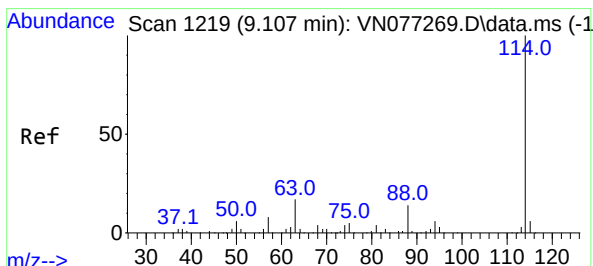
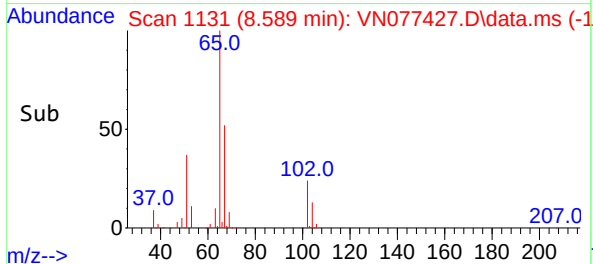
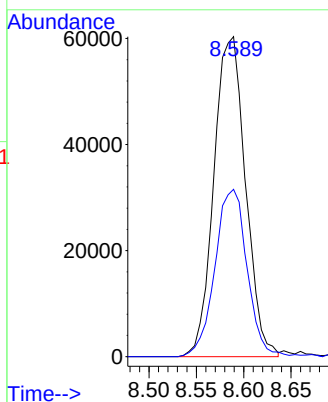
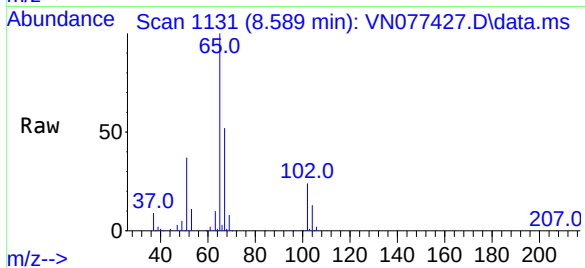




#27  
1,2-Dichloroethane-d4  
Concen: 30.118 ug/l  
RT: 8.589 min Scan# 1130  
Delta R.T. 0.005 min  
Lab File: VN077427.D  
Acq: 21 Apr 2023 17:14

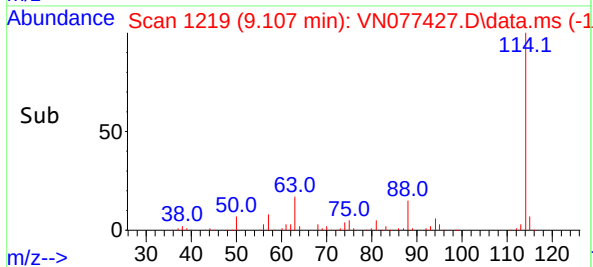
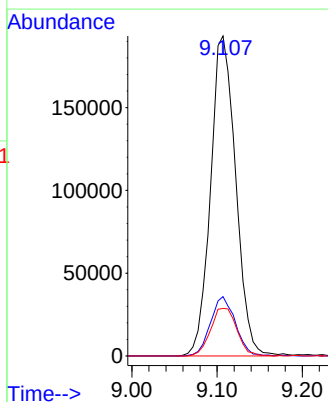
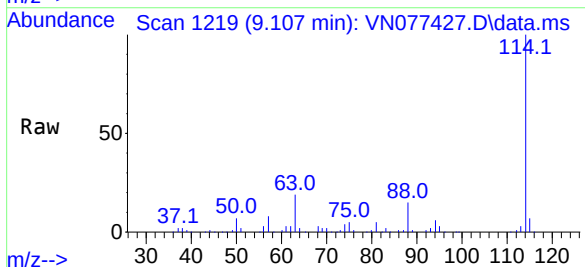
Instrument :  
MSVOA\_N  
ClientSampleId :  
SUMP-PUMP-GW-SAMPLE

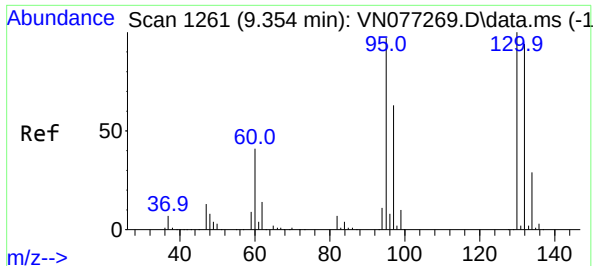
Tgt Ion: 65 Resp: 140306  
Ion Ratio Lower Upper  
65 100  
67 53.0 41.8 62.6



#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 9.107 min Scan# 1219  
Delta R.T. -0.000 min  
Lab File: VN077427.D  
Acq: 21 Apr 2023 17:14

Tgt Ion: 114 Resp: 396981  
Ion Ratio Lower Upper  
114 100  
63 18.4 15.0 22.4  
88 15.6 11.9 17.9





#37

Trichloroethene

Concen: 0.341 ug/l

RT: 9.360 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN077427.D

Acq: 21 Apr 2023 17:14

Instrument :

MSVOA\_N

ClientSampleId :

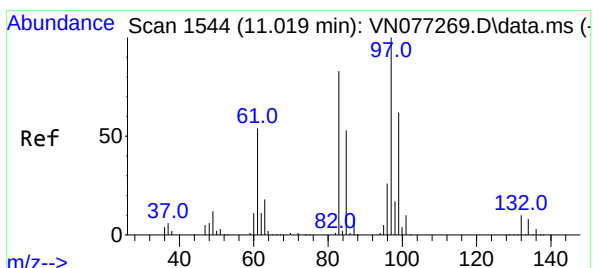
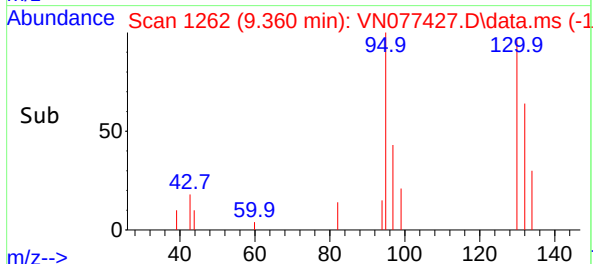
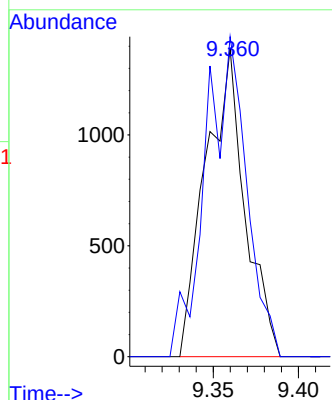
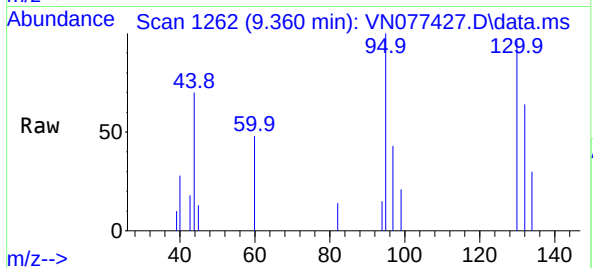
SUMP-PUMP-GW-SAMPLE

Tgt Ion:130 Resp: 2220

Ion Ratio Lower Upper

130 100

95 103.7 77.5 116.3



#50

1,1,2-Trichloroethane

Concen: 1.776 ug/l

RT: 10.577 min Scan# 1469

Delta R.T. -0.442 min

Lab File: VN077427.D

Acq: 21 Apr 2023 17:14

Tgt Ion: 97 Resp: 12278

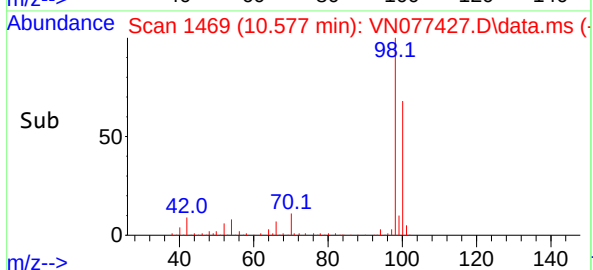
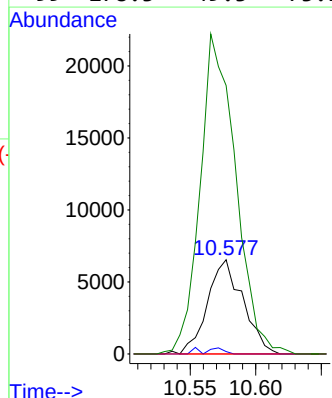
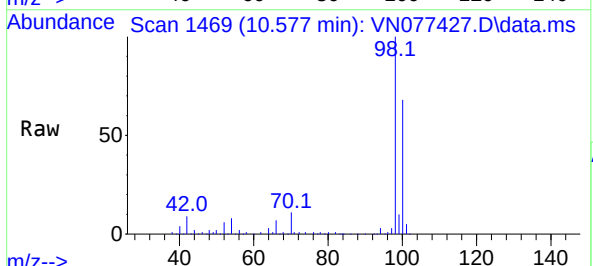
Ion Ratio Lower Upper

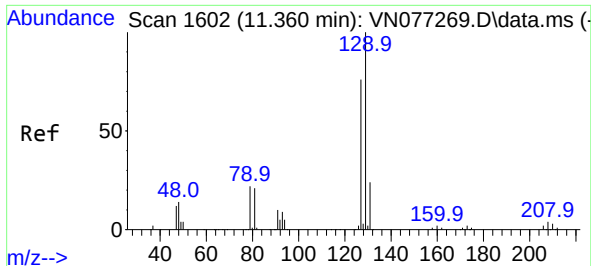
97 100

83 2.6 66.7 100.1#

85 0.0 42.4 63.6#

99 278.3 49.3 73.9#

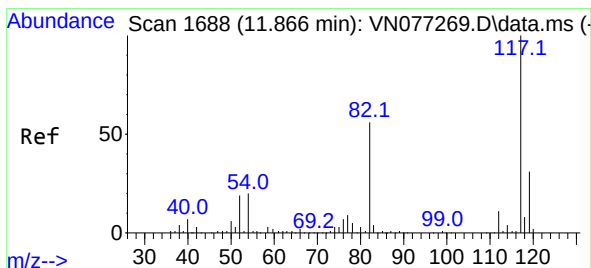
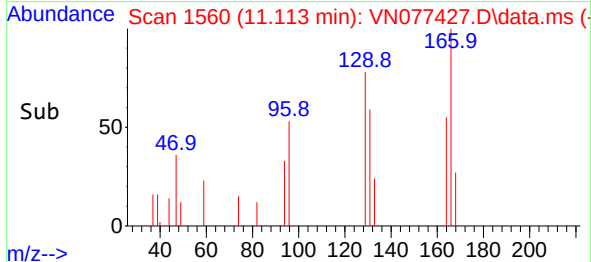
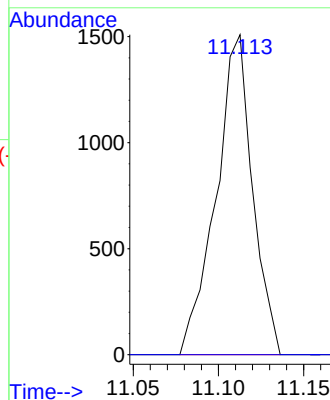
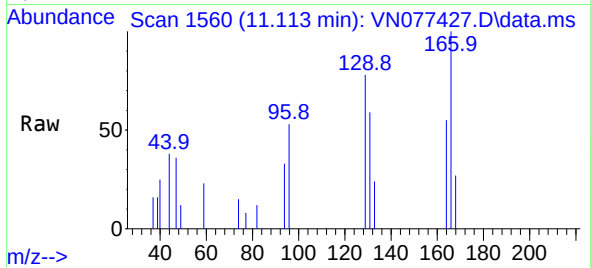




#53  
Dibromochloromethane  
Concen: 0.309 ug/l  
RT: 11.113 min Scan# 11  
Delta R.T. -0.247 min  
Lab File: VN077427.D  
Acq: 21 Apr 2023 17:14

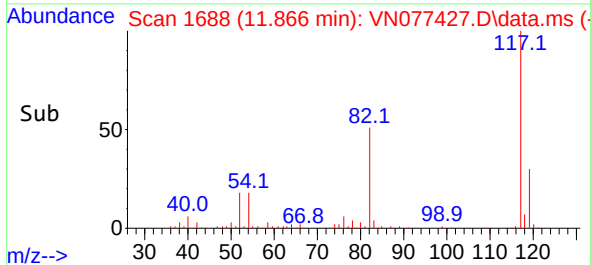
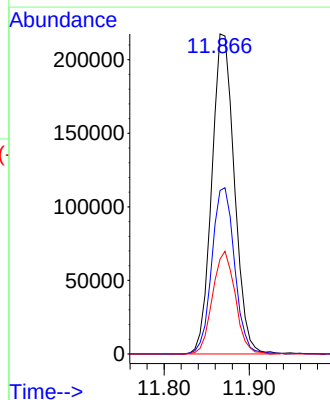
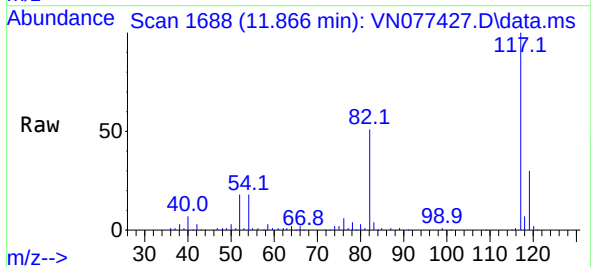
Instrument :  
MSVOA\_N  
ClientSampleId :  
SUMP-PUMP-GW-SAMPLE

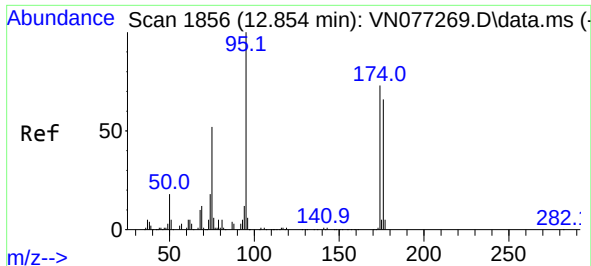
Tgt Ion:129 Resp: 2253  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.6 115.8#



#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.866 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: VN077427.D  
Acq: 21 Apr 2023 17:14

Tgt Ion:117 Resp: 400128  
Ion Ratio Lower Upper  
117 100  
82 52.4 43.8 65.8  
119 32.3 25.4 38.0

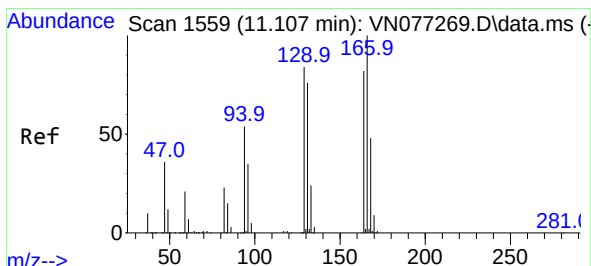
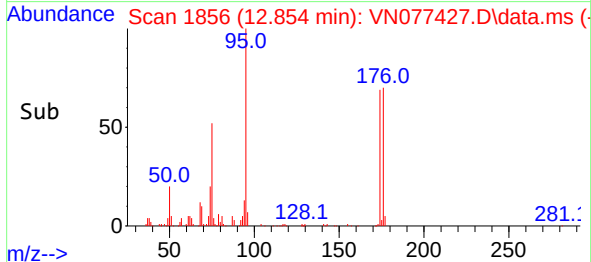
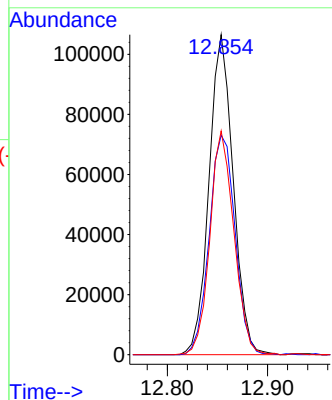
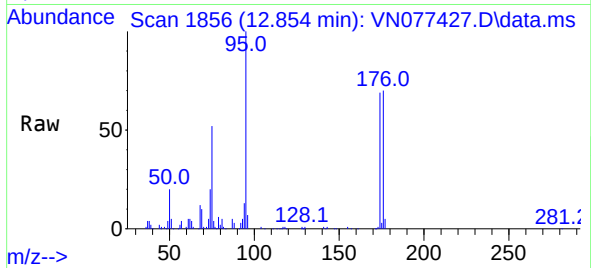




#60  
4-Bromofluorobenzene  
Concen: 25.840 ug/l  
RT: 12.854 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN077427.D  
Acq: 21 Apr 2023 17:14

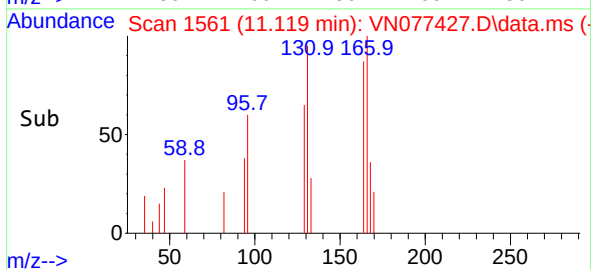
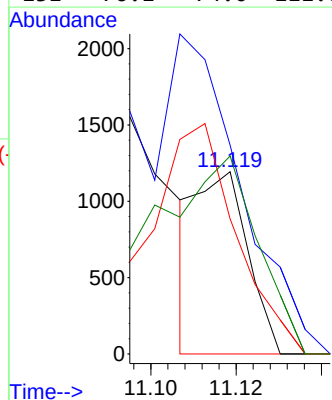
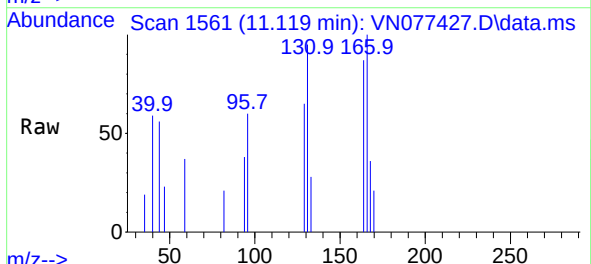
Instrument :  
MSVOA\_N  
ClientSampleId :  
SUMP-PUMP-GW-SAMPLE

Tgt Ion: 95 Resp: 178780  
Ion Ratio Lower Upper  
95 100  
174 73.5 57.8 86.8  
176 69.4 54.6 81.8

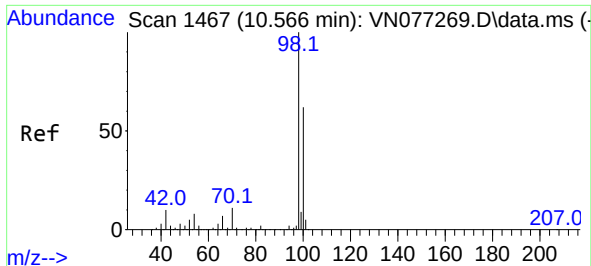


#61  
Tetrachloroethene  
Concen: 0.203 ug/l  
RT: 11.119 min Scan# 1561  
Delta R.T. 0.012 min  
Lab File: VN077427.D  
Acq: 21 Apr 2023 17:14

Tgt Ion:164 Resp: 964  
Ion Ratio Lower Upper  
164 100  
166 66.9 97.9 146.9#  
129 55.4 82.5 123.7#  
131 76.1 74.0 111.0



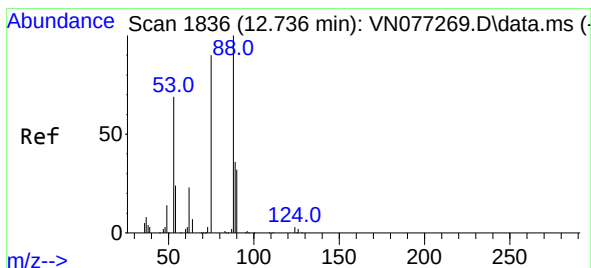
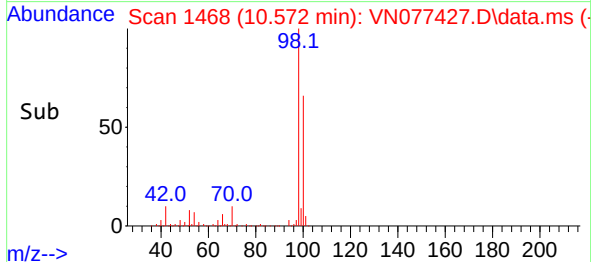
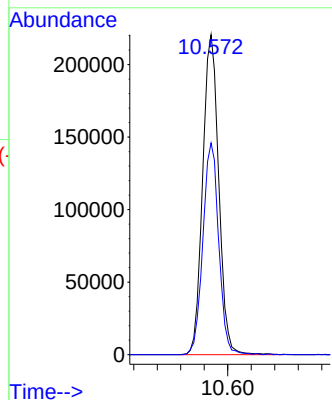
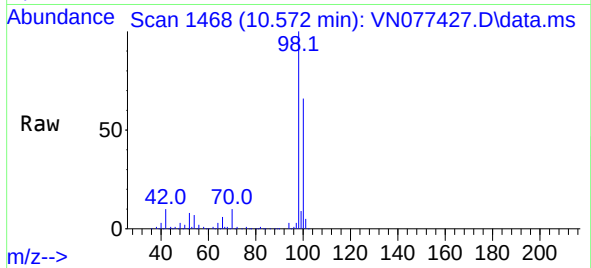




#63  
Toluene-d8  
Concen: 29.661 ug/l  
RT: 10.572 min Scan# 1468  
Delta R.T. 0.006 min  
Lab File: VN077427.D  
Acq: 21 Apr 2023 17:14

Instrument :  
MSVOA\_N  
ClientSampleId :  
SUMP-PUMP-GW-SAMPLE

Tgt Ion: 98 Resp: 417229  
Ion Ratio Lower Upper  
98 100  
100 65.3 51.4 77.2



#77  
t-1,4-Dichloro-2-butene  
Concen: 29.204 ug/l  
RT: 12.854 min Scan# 1856  
Delta R.T. 0.118 min  
Lab File: VN077427.D  
Acq: 21 Apr 2023 17:14

Tgt Ion: 75 Resp: 95311  
Ion Ratio Lower Upper  
75 100  
53 0.0 38.8 116.4#  
89 0.0 23.2 69.6#

