

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN041924\  
 Data File : VN081811.D  
 Acq On : 19 Apr 2024 16:04  
 Operator : JC\MD  
 Sample : P2216-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Apr 19 23:42:39 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N041024W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Apr 11 09:25:01 2024  
 Response via : Initial Calibration

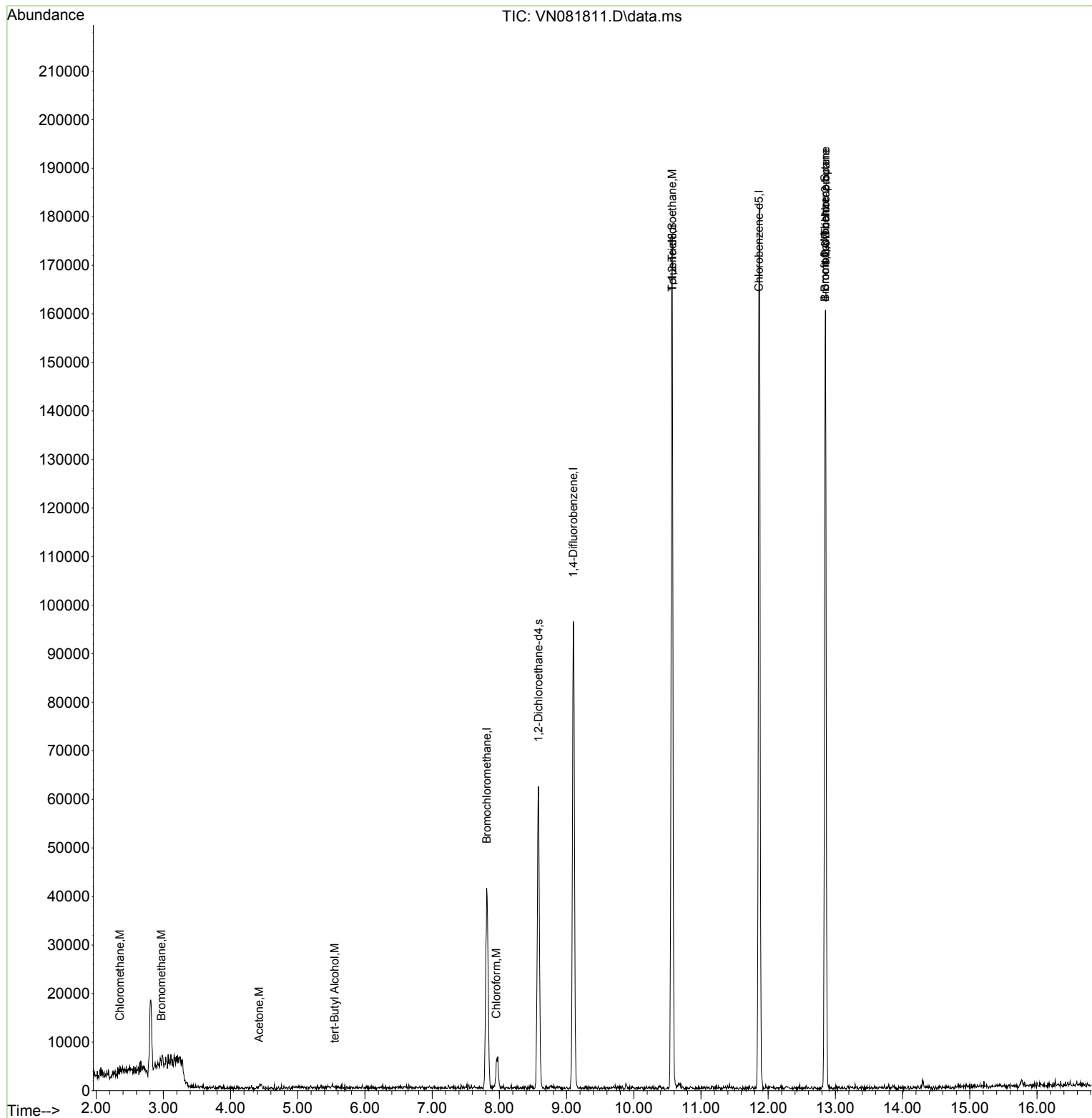
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 7.812  | 128   | 14876    | 30.000   | ug/l   | -0.01    |
| 28) 1,4-Difluorobenzene     | 9.100  | 114   | 82426    | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 11.865 | 117   | 105830   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 8.582  | 65    | 49977    | 27.347   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 91.167%  |
| 60) 4-Bromofluorobenzene    | 12.847 | 95    | 52677    | 25.317   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 84.400%  |
| 63) Toluene-d8              | 10.571 | 98    | 120593   | 28.408   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 94.700%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 3) Chloromethane            | 2.353  | 50    | 457      | 0.253    | ug/l # | 43       |
| 5) Bromomethane             | 2.971  | 94    | 435      | 0.277    | ug/l   | 89       |
| 15) Acetone                 | 4.424  | 58    | 154      | 0.800    | ug/l # | 24       |
| 23) tert-Butyl Alcohol      | 5.547  | 59    | 113      | 0.364    | ug/l # | 100      |
| 25) Chloroform              | 7.953  | 83    | 6843     | 1.635    | ug/l # | 82       |
| 50) 1,1,2-Trichloroethane   | 10.571 | 97    | 3350     | 1.929    | ug/l # | 1        |
| 56) Bromoform               | 12.847 | 173   | 472      | 0.356    | ug/l # | 35       |
| 72) 1,2,3-Trichloropropane  | 12.853 | 75    | 27411    | 14.272   | ug/l   | 1        |
| 77) t-1,4-Dichloro-2-butene | 12.853 | 75    | 27411    | 34.464   | ug/l # | 12       |
| -----                       |        |       |          |          |        |          |

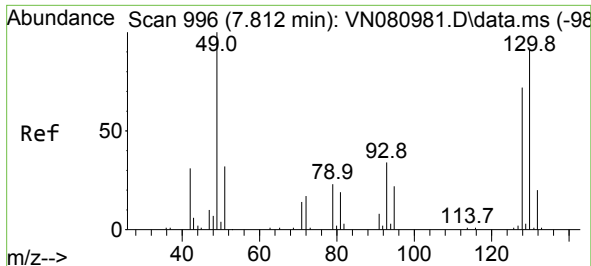
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 12 Sample Multiplier: 1

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MSVOA\_N  
ClientSampleId :

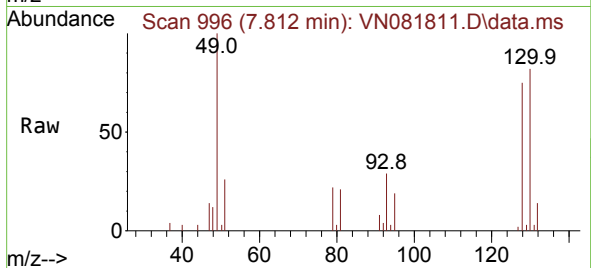
Quant Time: Apr 19 23:42:39 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N041024W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Thu Apr 11 09:25:01 2024  
Response via : Initial Calibration



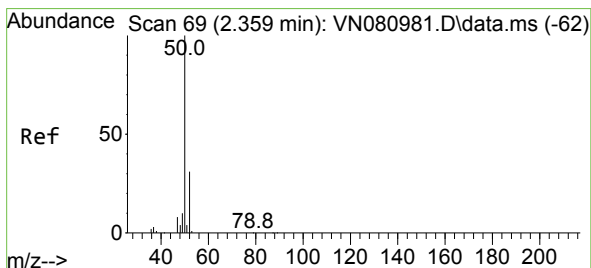
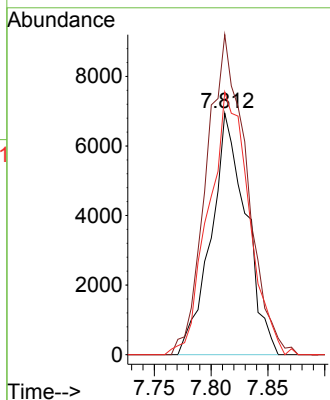
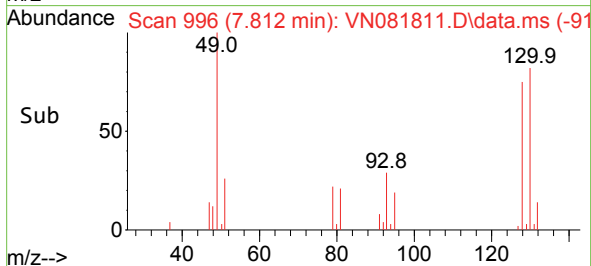


#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.812 min Scan# 996  
Delta R.T. -0.012 min  
Lab File: VN081811.D  
Acq: 19 Apr 2024 16:04

Instrument :  
MSVOA\_N  
ClientSampleId :

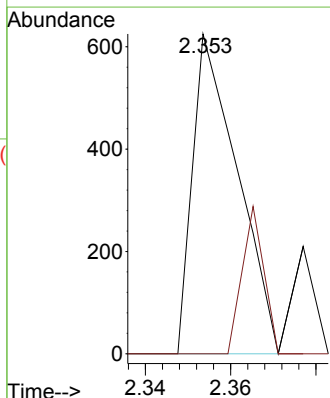
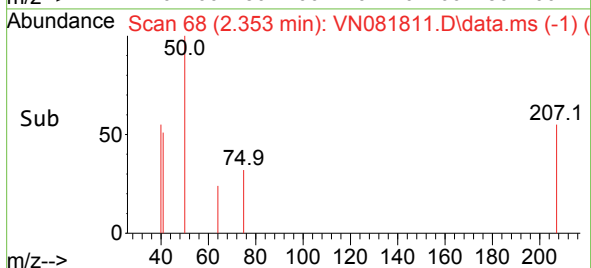
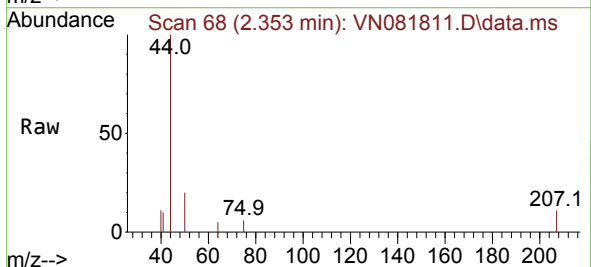


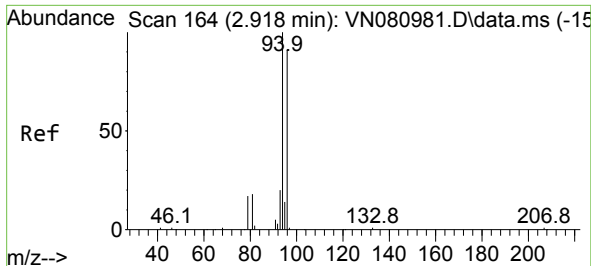
Tgt Ion:128 Resp: 14876  
Ion Ratio Lower Upper  
128 100  
49 152.6 0.0 403.7  
130 125.6 0.0 323.3



#3  
Chloromethane  
Concen: 0.253 ug/l  
RT: 2.353 min Scan# 68  
Delta R.T. -0.012 min  
Lab File: VN081811.D  
Acq: 19 Apr 2024 16:04

Tgt Ion: 50 Resp: 457  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.4 38.0#

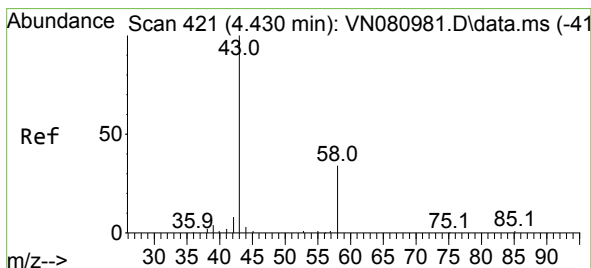
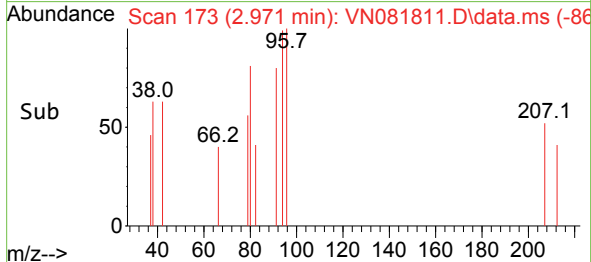
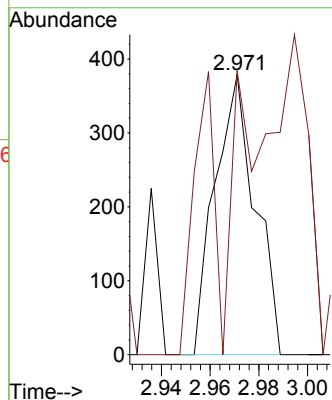
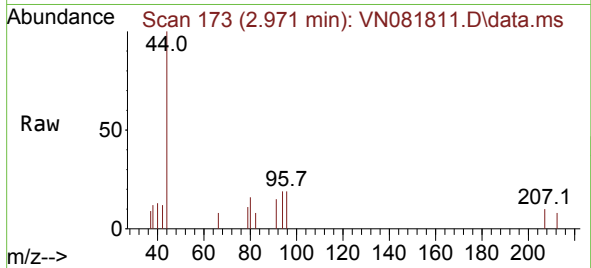




#5  
Bromomethane  
Concen: 0.277 ug/l  
RT: 2.971 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VN081811.D  
Acq: 19 Apr 2024 16:04

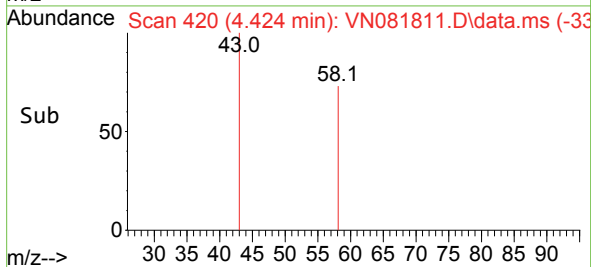
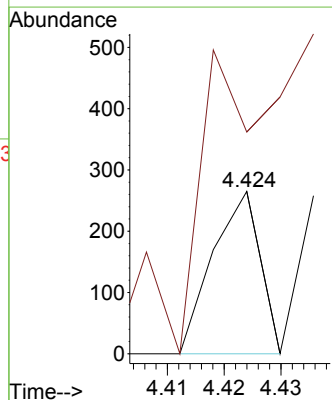
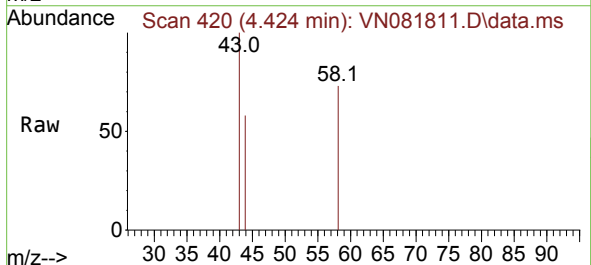
Instrument :  
MSVOA\_N  
ClientSampleId :

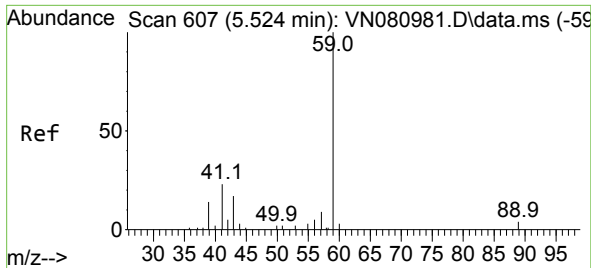
Tgt Ion: 94 Resp: 435  
Ion Ratio Lower Upper  
94 100  
96 101.3 72.8 109.2



#15  
Acetone  
Concen: 0.800 ug/l  
RT: 4.424 min Scan# 420  
Delta R.T. 0.000 min  
Lab File: VN081811.D  
Acq: 19 Apr 2024 16:04

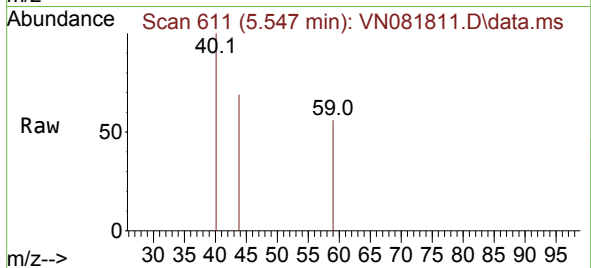
Tgt Ion: 58 Resp: 154  
Ion Ratio Lower Upper  
58 100  
43 136.6 223.1 334.7#



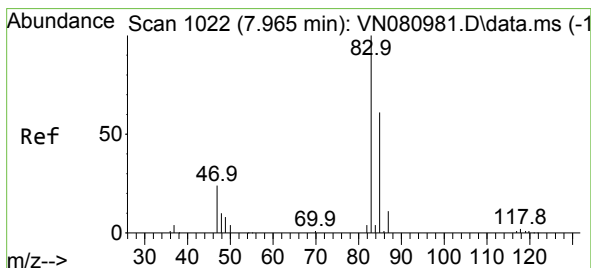
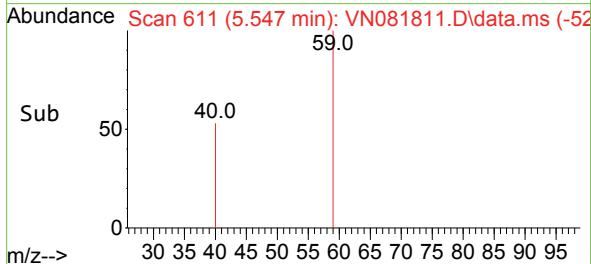
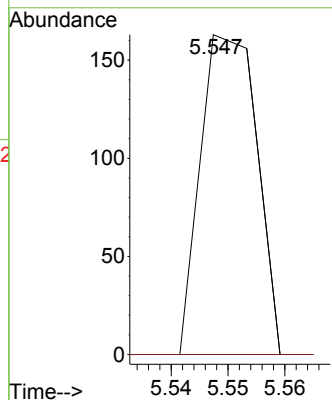


#23  
tert-Butyl Alcohol  
Concen: 0.364 ug/l  
RT: 5.547 min Scan# 611  
Delta R.T. 0.035 min  
Lab File: VN081811.D  
Acq: 19 Apr 2024 16:04

Instrument :  
MSVOA\_N  
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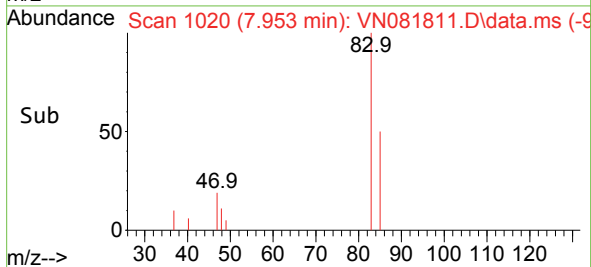
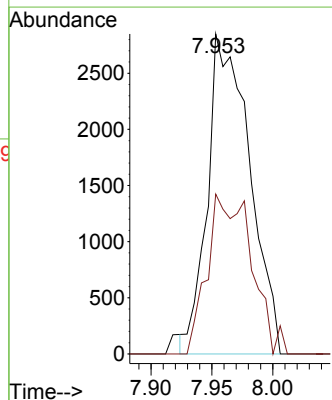
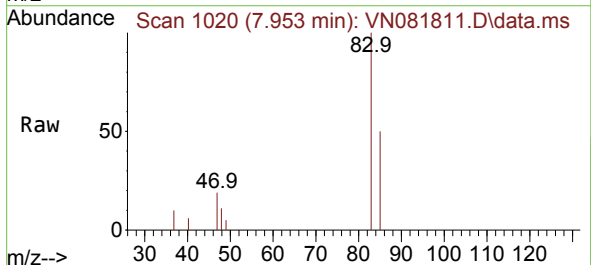


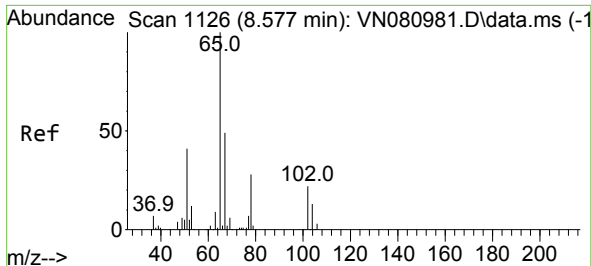
Tgt Ion: 59 Resp: 113  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.0 0.0



#25  
Chloroform  
Concen: 1.635 ug/l  
RT: 7.953 min Scan# 1020  
Delta R.T. -0.018 min  
Lab File: VN081811.D  
Acq: 19 Apr 2024 16:04

Tgt Ion: 83 Resp: 6843  
Ion Ratio Lower Upper  
83 100  
85 49.9 50.9 76.3#

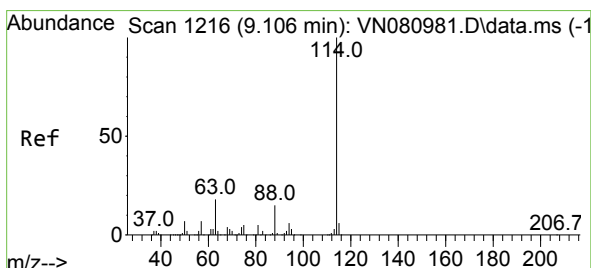
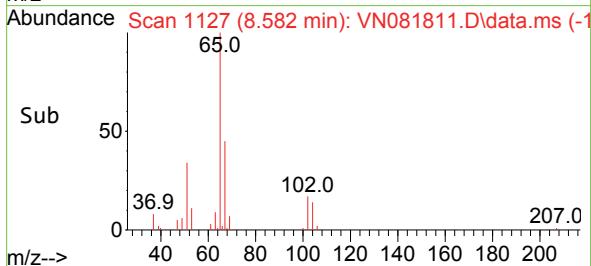
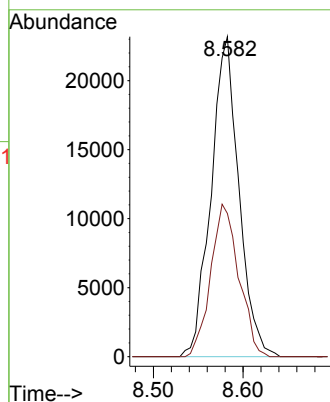
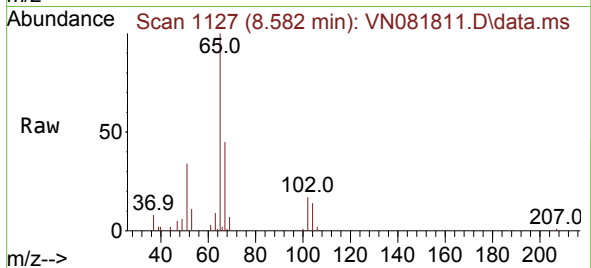




#27  
 1,2-Dichloroethane-d4  
 Concen: 27.347 ug/l  
 RT: 8.582 min Scan# 1127  
 Delta R.T. 0.000 min  
 Lab File: VN081811.D  
 Acq: 19 Apr 2024 16:04

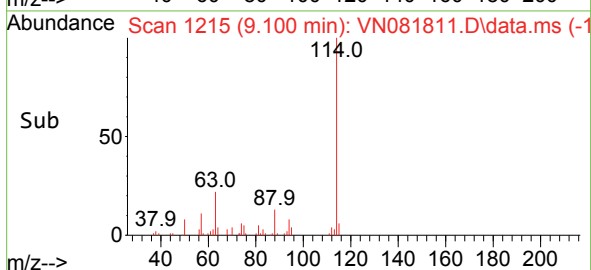
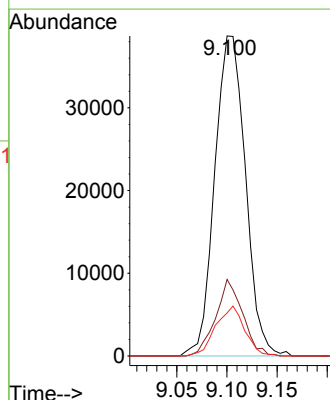
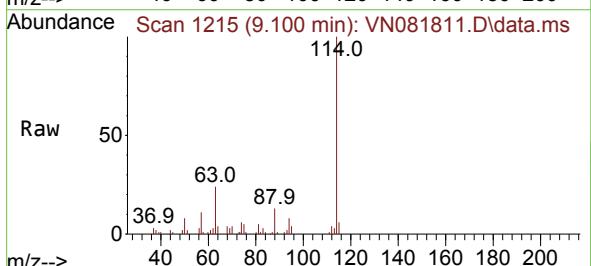
Instrument :  
 MSVOA\_N  
 ClientSampleId :

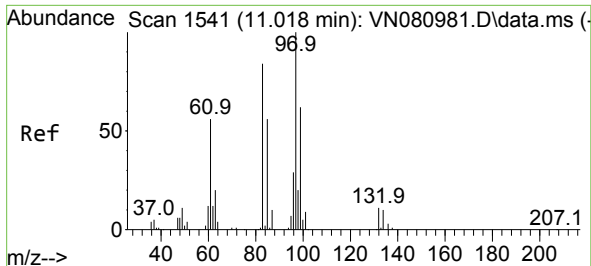
Tgt Ion: 65 Resp: 49977  
 Ion Ratio Lower Upper  
 65 100  
 67 48.2 43.2 64.8



#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 9.100 min Scan# 1215  
 Delta R.T. 0.000 min  
 Lab File: VN081811.D  
 Acq: 19 Apr 2024 16:04

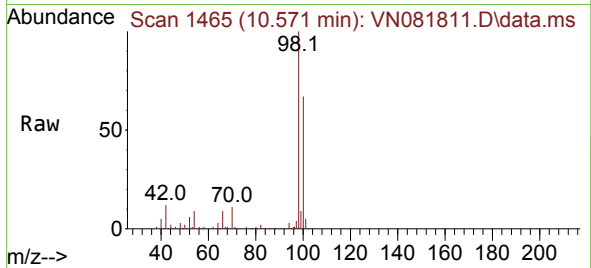
Tgt Ion: 114 Resp: 82426  
 Ion Ratio Lower Upper  
 114 100  
 63 21.0 15.9 23.9  
 88 14.7 12.7 19.1



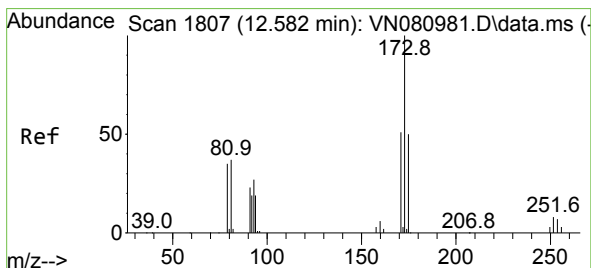
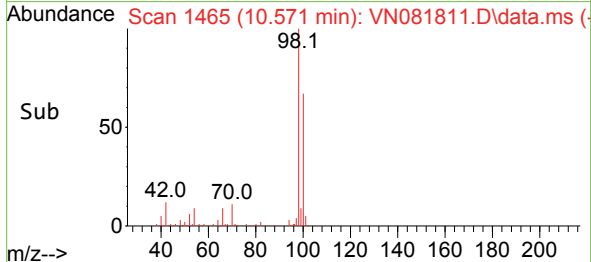
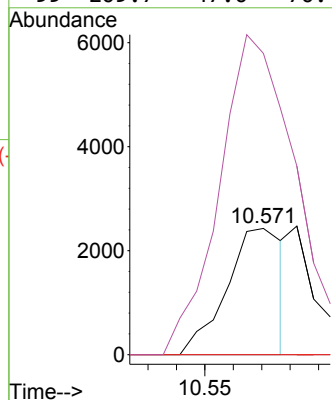


#50  
1,1,2-Trichloroethane  
Concen: 1.929 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. -0.447 min  
Lab File: VN081811.D  
Acq: 19 Apr 2024 16:04

Instrument :  
MSVOA\_N  
ClientSampleId :

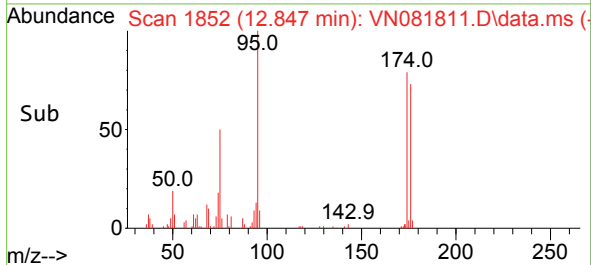
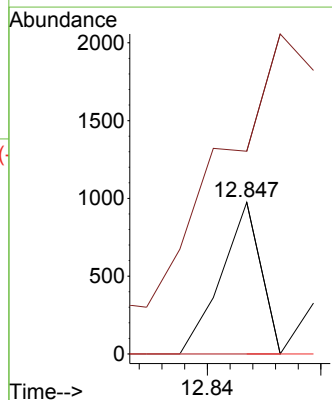
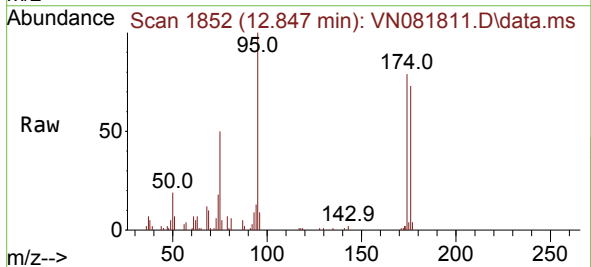


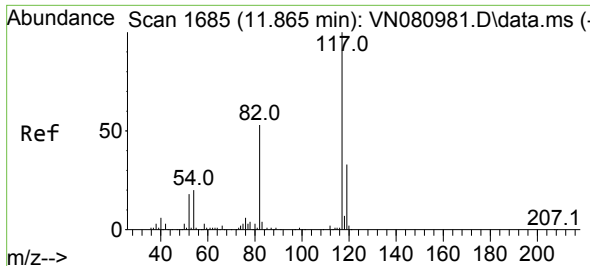
Tgt Ion: 97 Resp: 3350  
Ion Ratio Lower Upper  
97 100  
83 0.0 68.1 102.1#  
85 0.0 41.8 62.6#  
99 209.7 47.0 70.4#



#56  
Bromoform  
Concen: 0.356 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.265 min  
Lab File: VN081811.D  
Acq: 19 Apr 2024 16:04

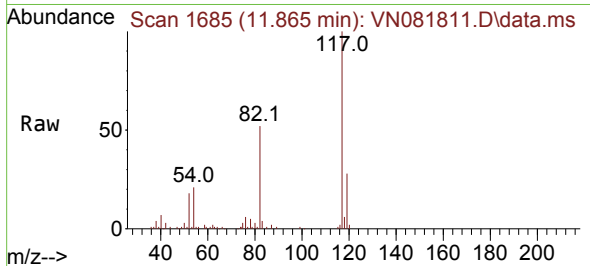
Tgt Ion:173 Resp: 472  
Ion Ratio Lower Upper  
173 100  
175 0.0 40.0 60.0#  
254 0.0 8.3 12.5#



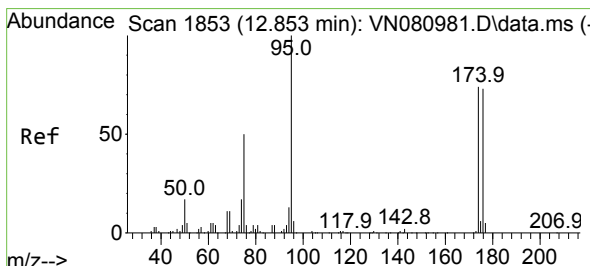
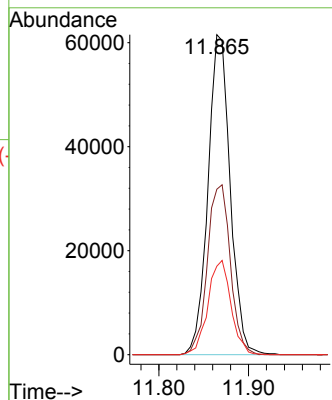
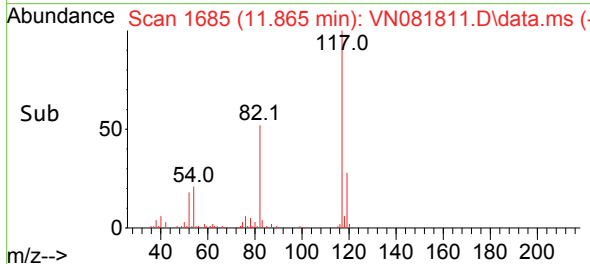


#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VN081811.D  
Acq: 19 Apr 2024 16:04

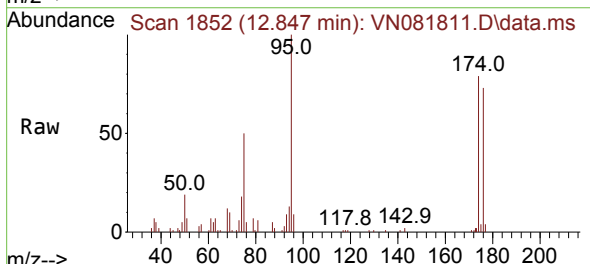
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MSVOA\_N  
ClientSampleId :



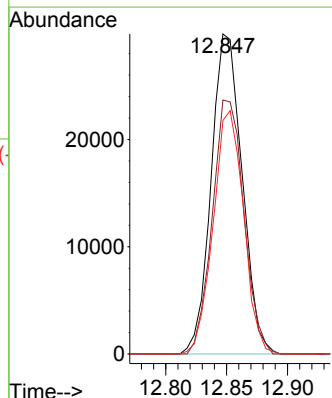
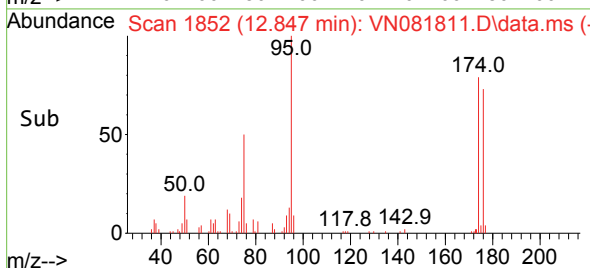
Tgt Ion:117 Resp: 105830  
Ion Ratio Lower Upper  
117 100  
82 54.9 46.6 69.8  
119 30.6 25.4 38.2



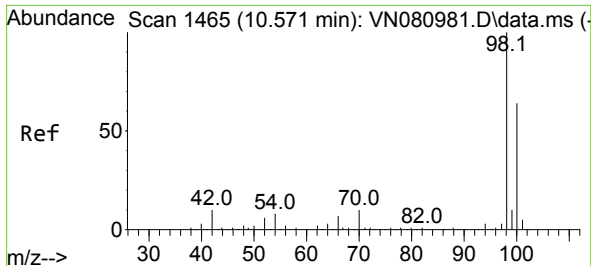
#60  
4-Bromofluorobenzene  
Concen: 25.317 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.000 min  
Lab File: VN081811.D  
Acq: 19 Apr 2024 16:04



Tgt Ion: 95 Resp: 52677  
Ion Ratio Lower Upper  
95 100  
174 80.8 60.5 90.7  
176 74.8 57.8 86.6



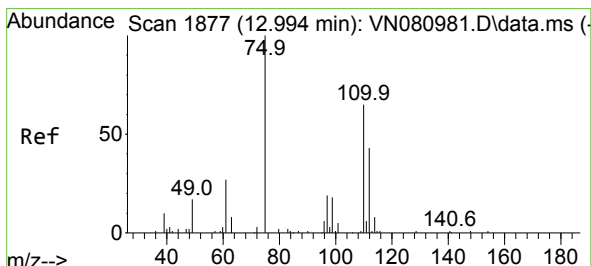
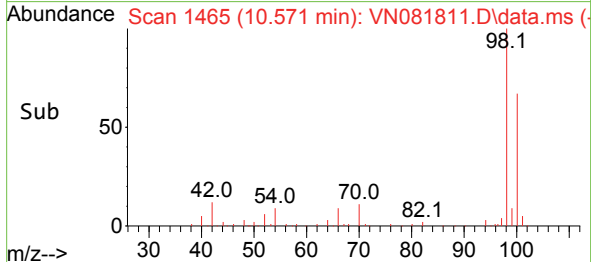
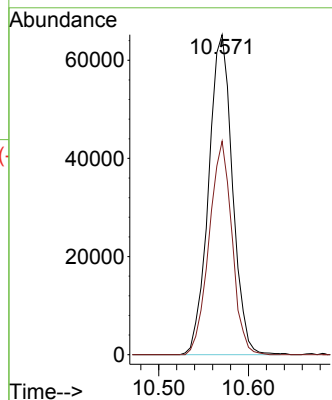
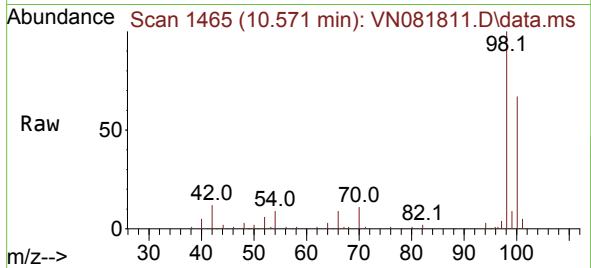




#63  
Toluene-d8  
Concen: 28.408 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. 0.006 min  
Lab File: VN081811.D  
Acq: 19 Apr 2024 16:04

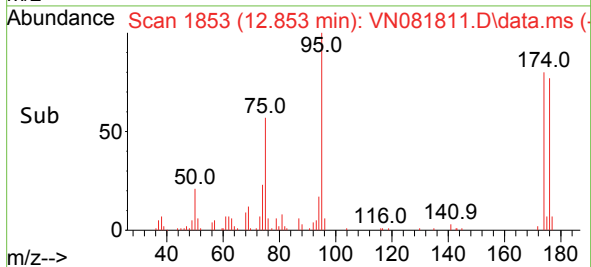
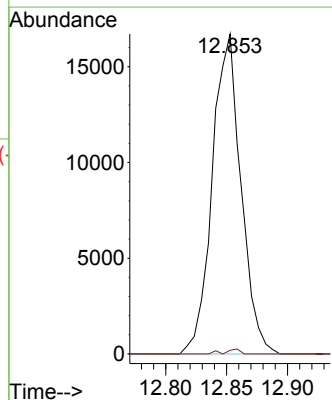
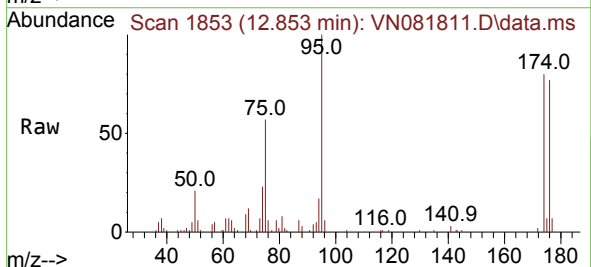
Instrument :  
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ClientSampleId :

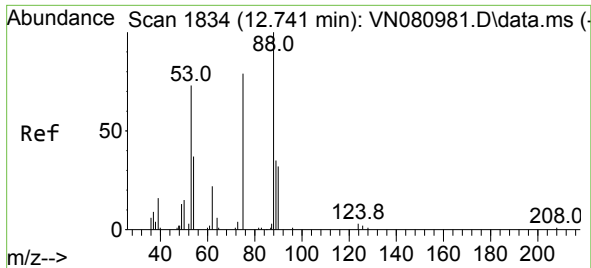
Tgt Ion: 98 Resp: 120593  
Ion Ratio Lower Upper  
98 100  
100 63.7 52.7 79.1



#72  
1,2,3-Trichloropropane  
Concen: 14.272 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.141 min  
Lab File: VN081811.D  
Acq: 19 Apr 2024 16:04

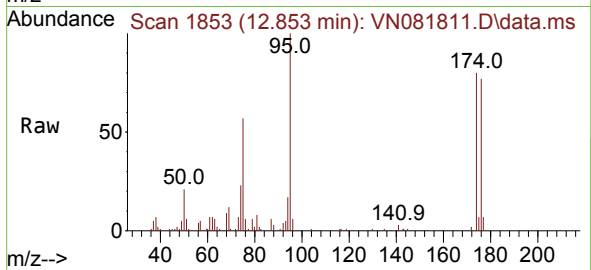
Tgt Ion: 75 Resp: 27411  
Ion Ratio Lower Upper  
75 100  
77 0.6 0.0 367.6





#77  
 t-1,4-Dichloro-2-butene  
 Concen: 34.464 ug/l  
 RT: 12.853 min Scan# 11  
 Delta R.T. 0.112 min  
 Lab File: VN081811.D  
 Acq: 19 Apr 2024 16:04

Instrument :  
 MSVOA\_N  
 ClientSampleId :



Tgt Ion: 75 Resp: 27411  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 45.9 137.7#  
 89 0.0 25.9 77.7#

