

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN050824\  
 Data File : VN082035.D  
 Acq On : 08 May 2024 18:25  
 Operator : JC\MD  
 Sample : P2425-02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 240507002-03-TRIP-BLANK

Quant Time: May 09 01:05:25 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N042624W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Apr 27 04:37:27 2024  
 Response via : Initial Calibration

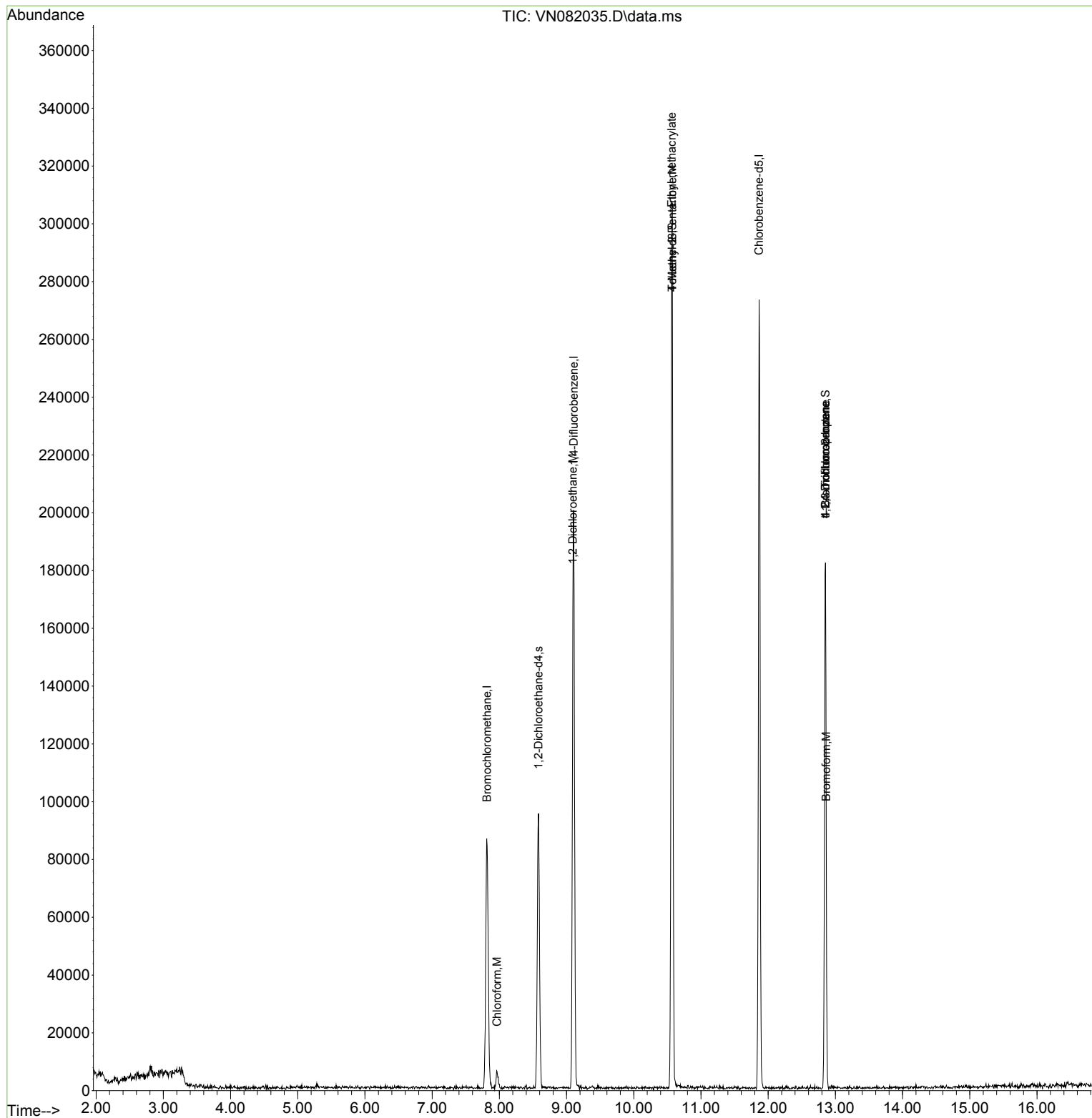
| Compound                    | R.T. QIon |       | Response | Conc     | Units | Dev(Min) |
|-----------------------------|-----------|-------|----------|----------|-------|----------|
| -----                       |           |       |          |          |       |          |
| Internal Standards          |           |       |          |          |       |          |
| 1) Bromochloromethane       | 7.818     | 128   | 28476    | 30.000   | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene     | 9.106     | 114   | 167403   | 30.000   | ug/l  | # 0.00   |
| 57) Chlorobenzene-d5        | 11.865    | 117   | 145887   | 30.000   | ug/l  | 0.00     |
| System Monitoring Compounds |           |       |          |          |       |          |
| 27) 1,2-Dichloroethane-d4   | 8.583     | 65    | 75464    | 31.652   | ug/l  | 0.00     |
| Spiked Amount               | 30.000    | Range | 91 - 110 | Recovery | =     | 105.500% |
| 60) 4-Bromofluorobenzene    | 12.853    | 95    | 63074    | 25.979   | ug/l  | 0.00     |
| Spiked Amount               | 30.000    | Range | 63 - 112 | Recovery | =     | 86.600%  |
| 63) Toluene-d8              | 10.571    | 98    | 203298   | 29.343   | ug/l  | 0.00     |
| Spiked Amount               | 30.000    | Range | 91 - 112 | Recovery | =     | 97.800%  |
| Target Compounds            |           |       |          |          |       | Qvalue   |
| 25) Chloroform              | 7.965     | 83    | 3304     | 0.961    | ug/l  | 100      |
| 36) 1,2-Dichloroethane      | 9.094     | 62    | 6708     | 2.513    | ug/l  | # 72     |
| 51) Ethyl methacrylate      | 10.565    | 69    | 790      | 0.235    | ug/l  | # 49     |
| 56) Bromoform               | 12.865    | 173   | 530      | 0.450    | ug/l  | # 1      |
| 58) 4-Methyl-2-Pentanone    | 10.571    | 43    | 905      | 0.319    | ug/l  | # 1      |
| 72) 1,2,3-Trichloropropane  | 12.853    | 75    | 36106    | 16.010   | ug/l  | 1        |
| 77) t-1,4-Dichloro-2-butene | 12.853    | 75    | 36106    | 35.970   | ug/l  | # 12     |
| -----                       |           |       |          |          |       |          |

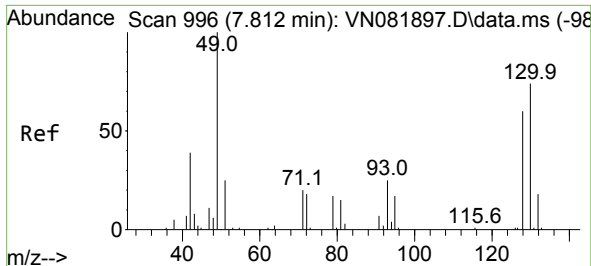
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N042624W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Sat Apr 27 04:37:27 2024  
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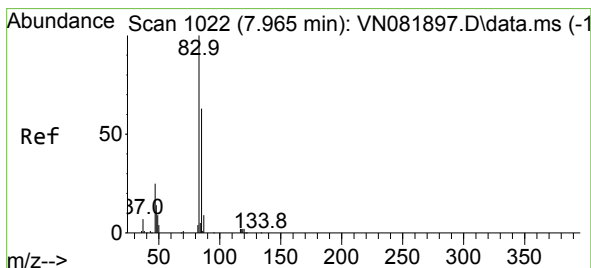
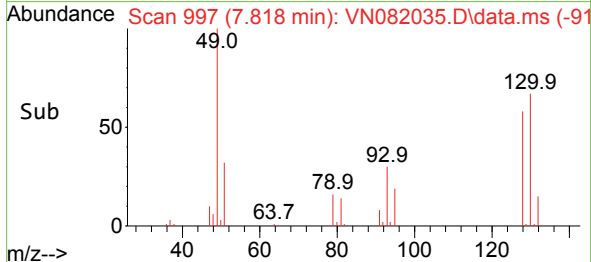
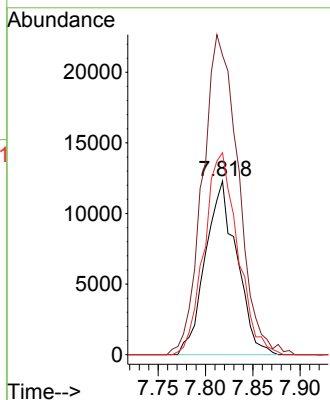
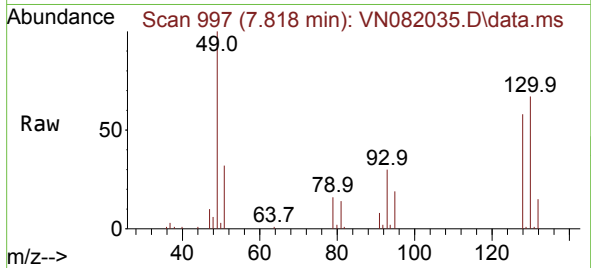




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.818 min Scan# 996  
Delta R.T. 0.006 min  
Lab File: VN082035.D  
Acq: 08 May 2024 18:25

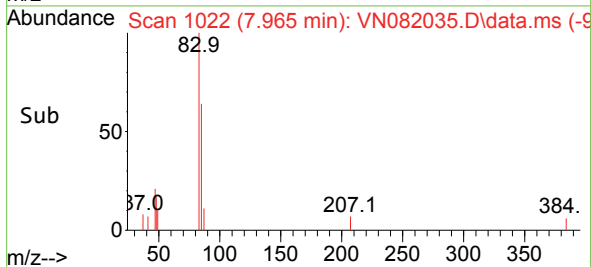
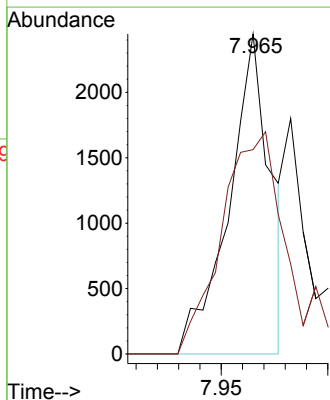
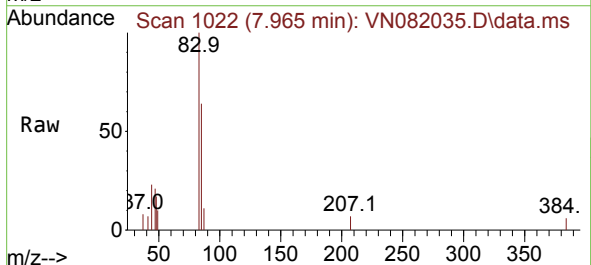
Instrument :  
MSVOA\_N  
ClientSampleId :  
240507002-03-TRIP-BLANK

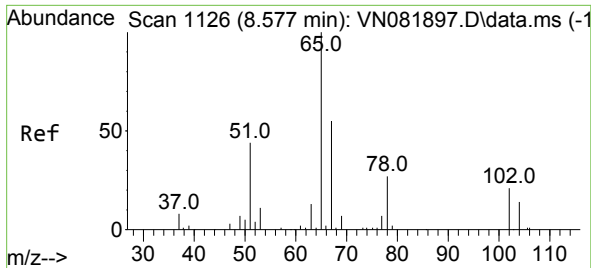
Tgt Ion:128 Resp: 28476  
Ion Ratio Lower Upper  
128 100  
49 208.8 0.0 403.7  
130 124.0 0.0 323.3



#25  
Chloroform  
Concen: 0.961 ug/l  
RT: 7.965 min Scan# 1022  
Delta R.T. -0.000 min  
Lab File: VN082035.D  
Acq: 08 May 2024 18:25

Tgt Ion: 83 Resp: 3304  
Ion Ratio Lower Upper  
83 100  
85 63.9 50.9 76.3





#27

1,2-Dichloroethane-d4

Concen: 31.652 ug/l

RT: 8.583 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN082035.D

Acq: 08 May 2024 18:25

Instrument :

MSVOA\_N

ClientSampleId :

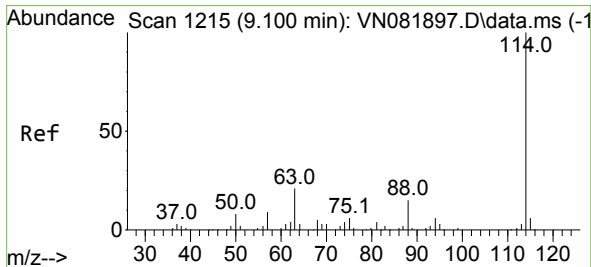
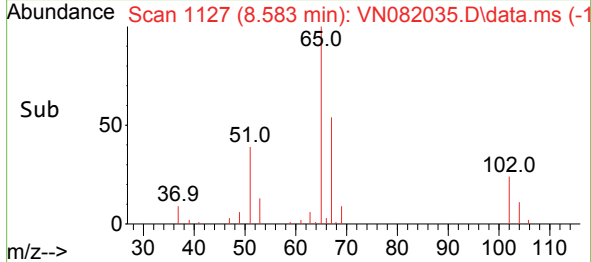
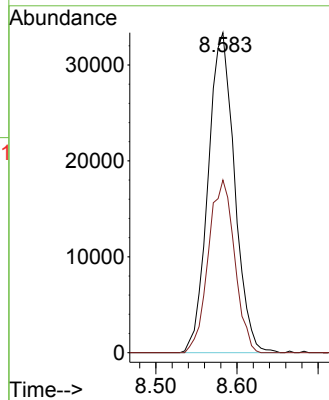
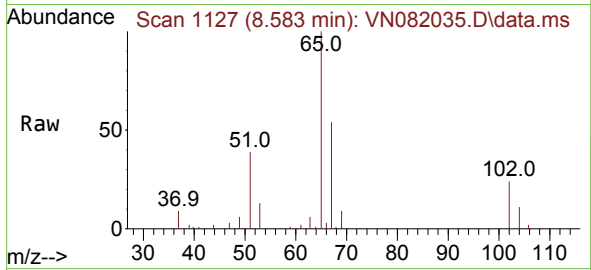
240507002-03-TRIP-BLANK

Tgt Ion: 65 Resp: 75464

Ion Ratio Lower Upper

65 100

67 53.5 43.2 64.8



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.006 min

Lab File: VN082035.D

Acq: 08 May 2024 18:25

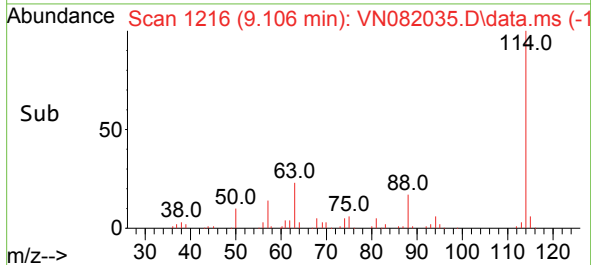
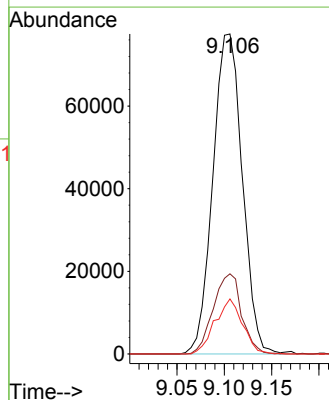
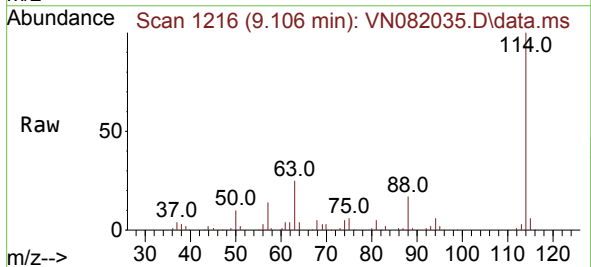
Tgt Ion: 114 Resp: 167403

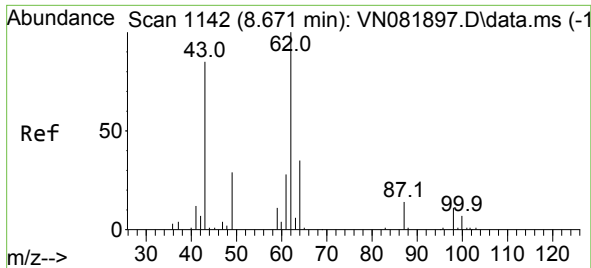
Ion Ratio Lower Upper

114 100

63 24.1 15.9 23.9

88 16.1 12.7 19.1

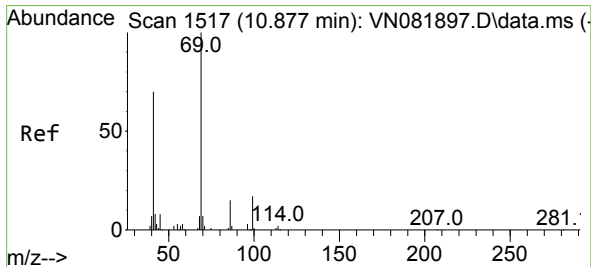
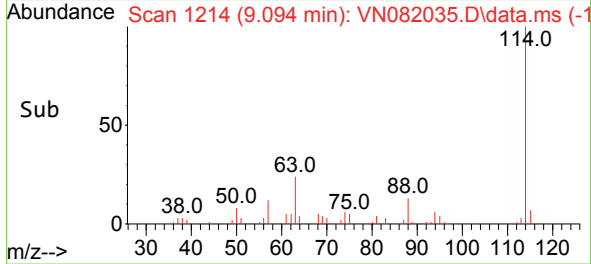
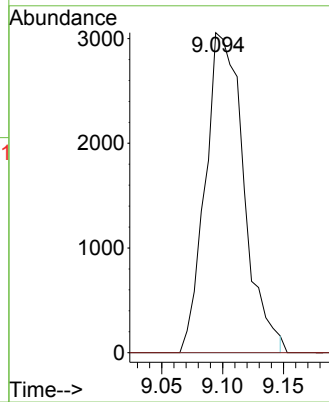
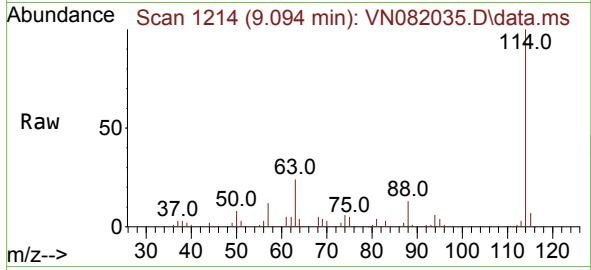




#36  
1,2-Dichloroethane  
Concen: 2.513 ug/l  
RT: 9.094 min Scan# 1142  
Delta R.T. 0.423 min  
Lab File: VN082035.D  
Acq: 08 May 2024 18:25

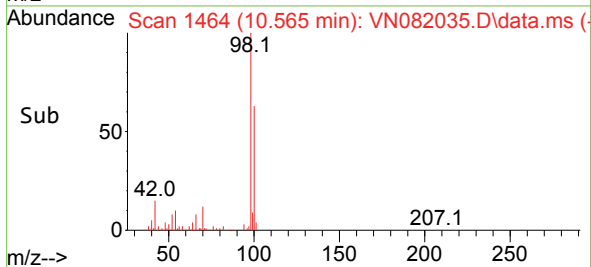
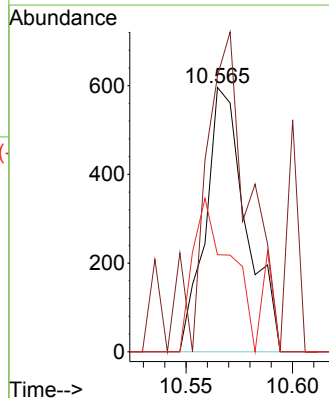
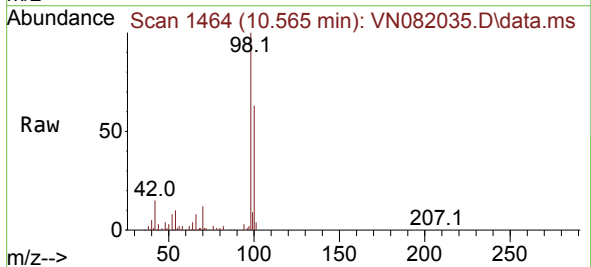
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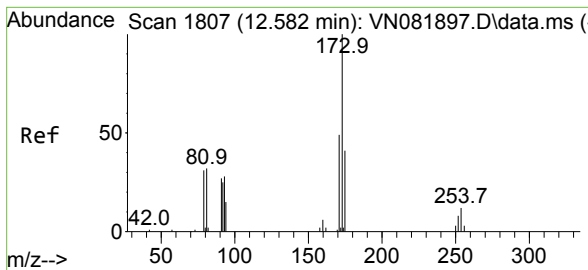
Tgt Ion: 62 Resp: 6708  
Ion Ratio Lower Upper  
62 100  
98 0.0 8.2 12.4#



#51  
Ethyl methacrylate  
Concen: 0.235 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.312 min  
Lab File: VN082035.D  
Acq: 08 May 2024 18:25

Tgt Ion: 69 Resp: 790  
Ion Ratio Lower Upper  
69 100  
41 104.4 25.5 76.5#  
39 36.7 16.0 47.9





#56

Bromoform

Concen: 0.450 ug/l

RT: 12.865 min Scan# 1807

Delta R.T. 0.282 min

Lab File: VN082035.D

Acq: 08 May 2024 18:25

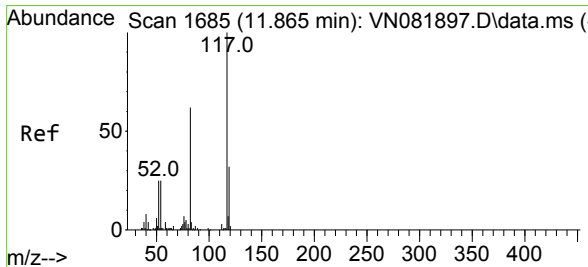
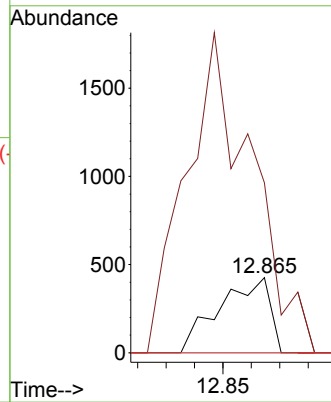
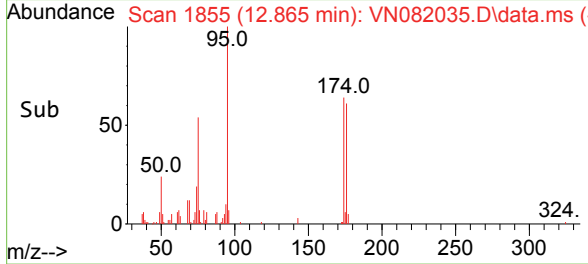
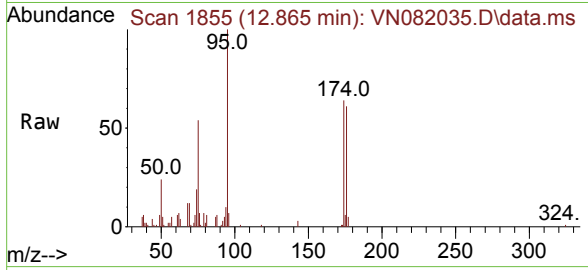
Instrument :

MSVOA\_N

ClientSampleId :

240507002-03-TRIP-BLANK

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:173 | Resp: | 530        |
| Ion Ratio   | Lower | Upper      |
| 173         | 100   |            |
| 175         | 368.1 | 40.0 60.0# |
| 254         | 0.0   | 8.3 12.5#  |



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

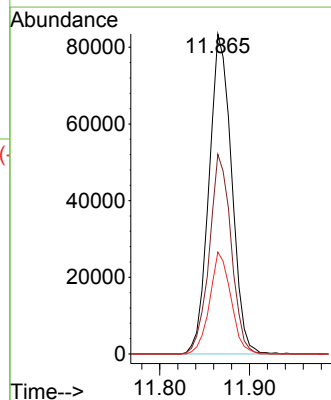
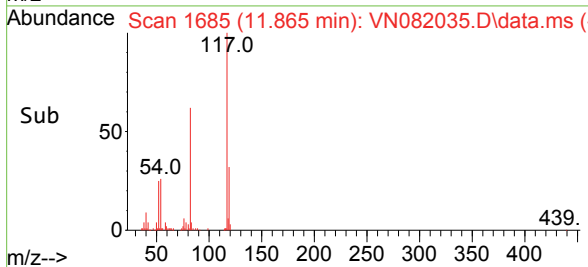
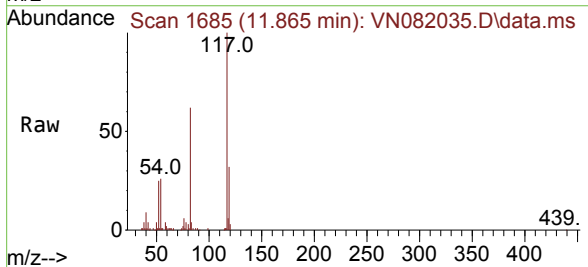
RT: 11.865 min Scan# 1685

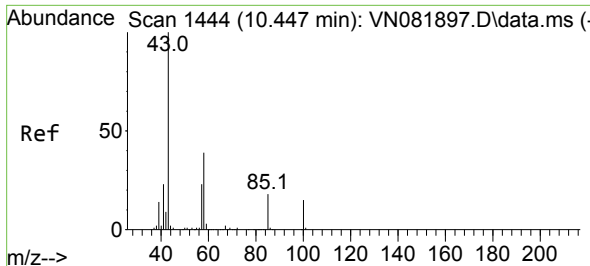
Delta R.T. -0.000 min

Lab File: VN082035.D

Acq: 08 May 2024 18:25

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:117 | Resp: | 145887    |
| Ion Ratio   | Lower | Upper     |
| 117         | 100   |           |
| 82          | 60.5  | 46.6 69.8 |
| 119         | 29.9  | 25.4 38.2 |

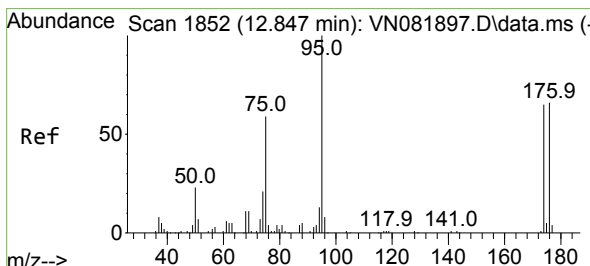
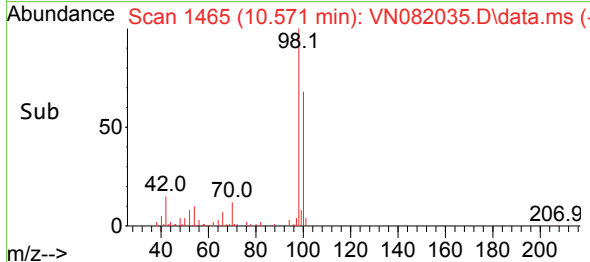
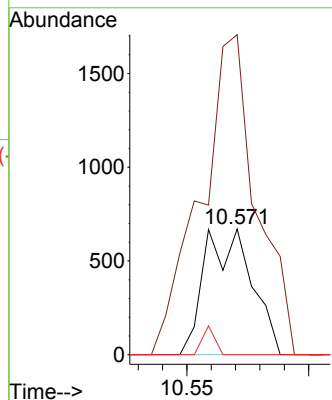
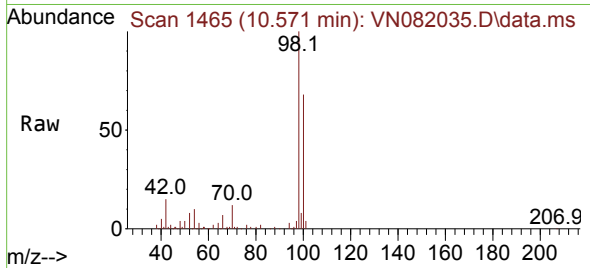




#58  
4-Methyl-2-Pentanone  
Concen: 0.319 ug/l  
RT: 10.571 min Scan# 1444  
Delta R.T. 0.123 min  
Lab File: VN082035.D  
Acq: 08 May 2024 18:25

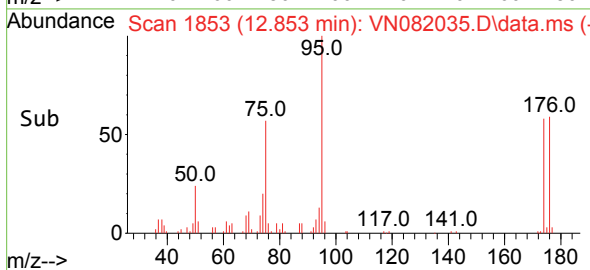
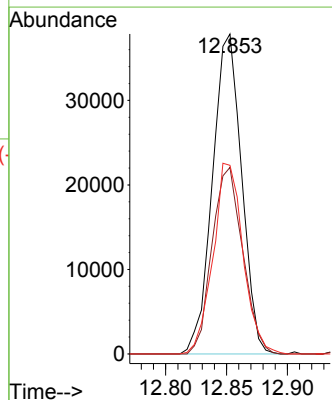
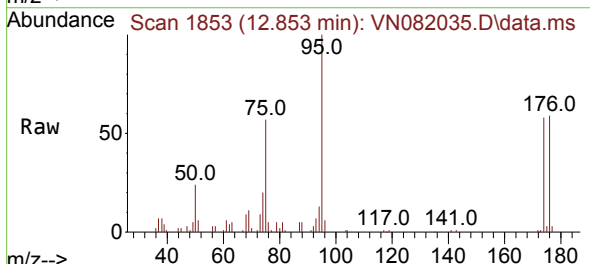
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ClientSampleId :  
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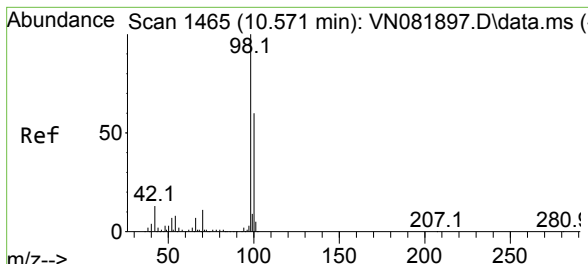
Tgt Ion: 43 Resp: 905  
Ion Ratio Lower Upper  
43 100  
58 299.9 36.5 54.7#  
85 0.0 19.5 29.3#



#60  
4-Bromofluorobenzene  
Concen: 25.979 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.006 min  
Lab File: VN082035.D  
Acq: 08 May 2024 18:25

Tgt Ion: 95 Resp: 63074  
Ion Ratio Lower Upper  
95 100  
174 61.3 60.5 90.7  
176 61.4 57.8 86.6

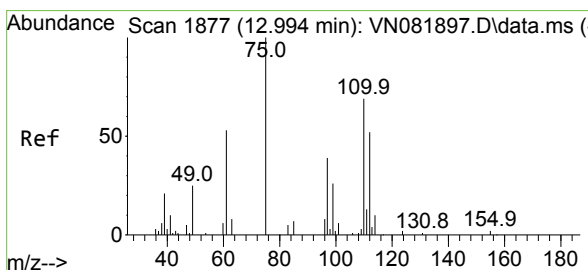
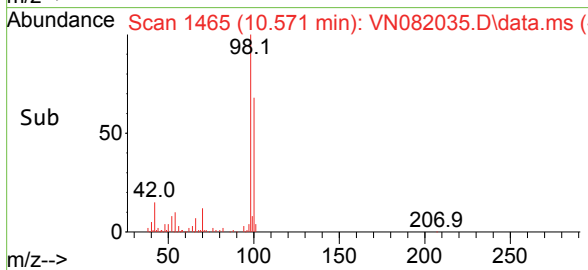
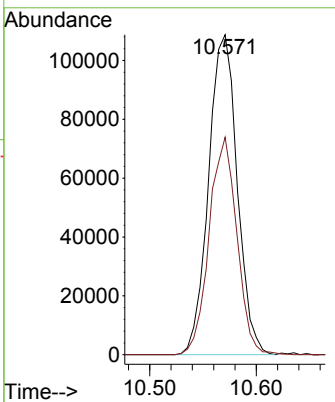
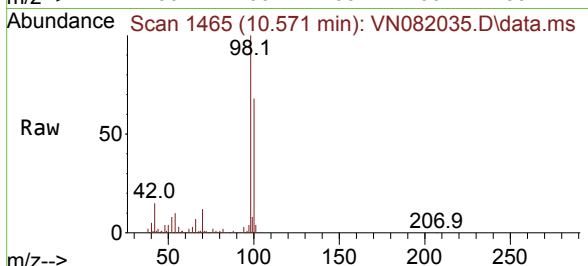




#63  
 Toluene-d8  
 Concen: 29.343 ug/l  
 RT: 10.571 min Scan# 1465  
 Delta R.T. -0.000 min  
 Lab File: VN082035.D  
 Acq: 08 May 2024 18:25

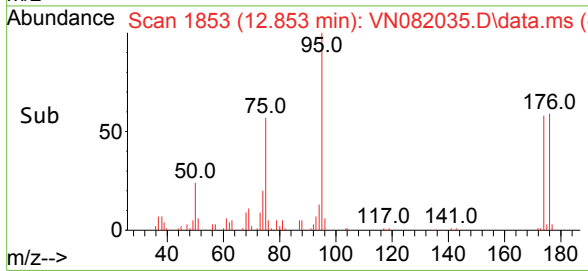
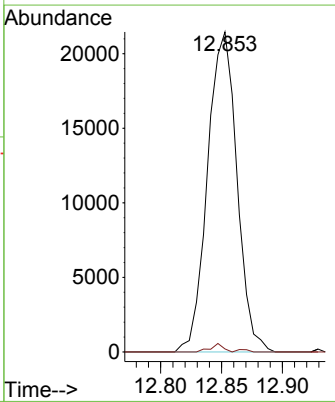
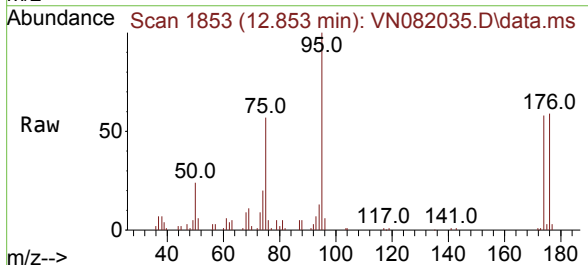
Instrument : MSVOA\_N  
 ClientSampleId : 240507002-03-TRIP-BLANK

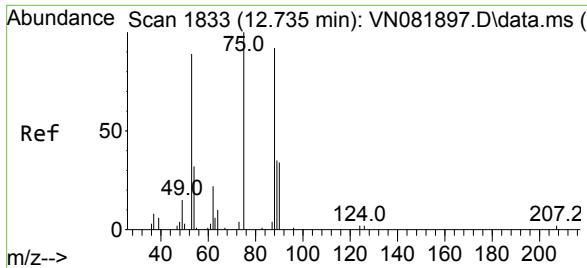
Tgt Ion: 98 Resp: 203298  
 Ion Ratio Lower Upper  
 98 100  
 100 65.7 52.7 79.1



#72  
 1,2,3-Trichloropropane  
 Concen: 16.010 ug/l  
 RT: 12.853 min Scan# 1853  
 Delta R.T. -0.141 min  
 Lab File: VN082035.D  
 Acq: 08 May 2024 18:25

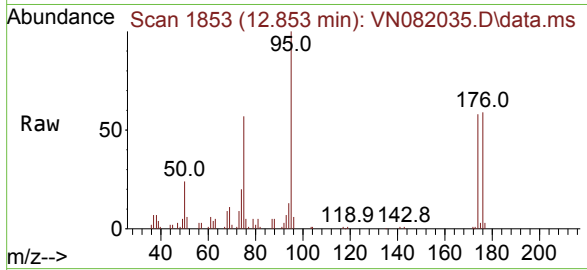
Tgt Ion: 75 Resp: 36106  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 0.0 367.6





#77  
 t-1,4-Dichloro-2-butene  
 Concen: 35.970 ug/l  
 RT: 12.853 min Scan# 11  
 Delta R.T. 0.118 min  
 Lab File: VN082035.D  
 Acq: 08 May 2024 18:25

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 240507002-03-TRIP-BLANK



Tgt Ion: 75 Resp: 36106  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 45.9 137.7#  
 89 0.0 25.9 77.7#

