

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN102423\  
 Data File : VN079663.D  
 Acq On : 24 Oct 2023 17:38  
 Operator : JC\MD  
 Sample : 05029-08  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 231010056-09-TRIP-BLANK

Quant Time: Oct 25 02:01:08 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N100523W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 06 03:34:49 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.230  | 168  | 255878   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 9.106  | 114  | 502804   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.871 | 117  | 490674   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.794 | 152  | 157459   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.583  | 65    | 218446   | 52.652   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | =    | 105.300% |
| 35) Dibromofluoromethane    | 8.171  | 113   | 195929   | 54.224   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 108.440% |
| 50) Toluene-d8              | 10.571 | 98    | 609261   | 46.601   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | =    | 93.200%  |
| 62) 4-Bromofluorobenzene    | 12.853 | 95    | 207057   | 49.349   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | =    | 98.700%  |

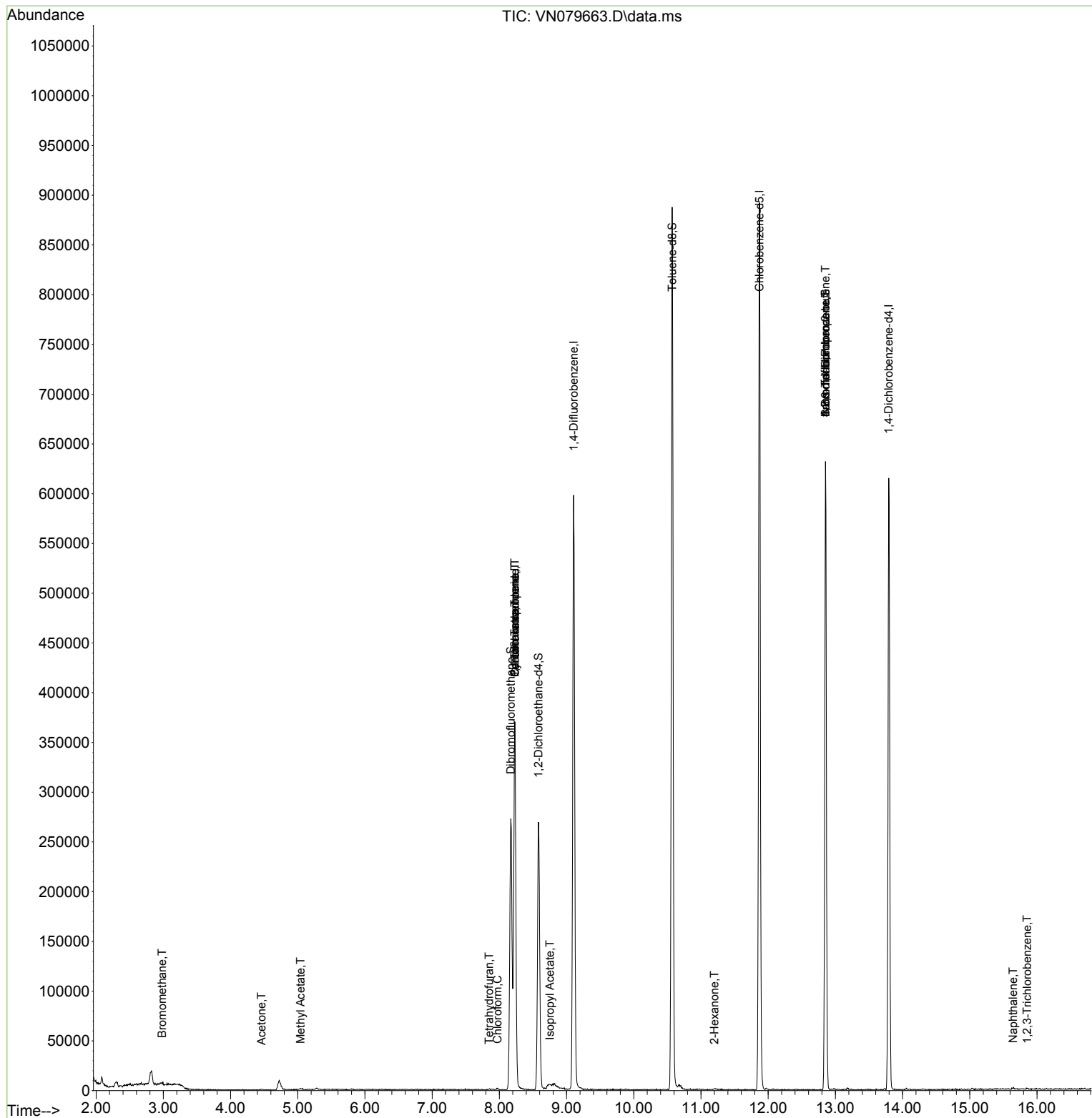
| Target Compounds              |        |     |        |           | Qvalue |    |
|-------------------------------|--------|-----|--------|-----------|--------|----|
| 5) Bromomethane               | 2.983  | 94  | 1270   | 0.446     | ug/l # | 65 |
| 16) Acetone                   | 4.459  | 43  | 1220   | 0.741     | ug/l # | 40 |
| 18) Methyl Acetate            | 5.042  | 43  | 1909   | 0.237     | ug/l # | 55 |
| 20) Methylene Chloride        | 5.283  | 84  | 930    | Below Cal | #      | 81 |
| 29) Tetrahydrofuran           | 7.847  | 42  | 357    | 0.226     | ug/l # | 20 |
| 30) Chloroform                | 7.971  | 83  | 1403   | 0.207     | ug/l # | 83 |
| 31) Cyclohexane               | 8.230  | 56  | 6331   | 1.076     | ug/l # | 48 |
| 36) 1,1-Dichloropropene       | 8.230  | 75  | 23217  | 4.281     | ug/l # | 47 |
| 38) Carbon Tetrachloride      | 8.230  | 117 | 29189  | 5.376     | ug/l # | 15 |
| 43) Isopropyl Acetate         | 8.753  | 43  | 5776   | 0.611     | ug/l # | 49 |
| 59) 2-Hexanone                | 11.200 | 43  | 923    | 0.240     | ug/l # | 59 |
| 71) Bromoform                 | 12.853 | 173 | 1177   | 0.402     | ug/l # | 28 |
| 75) 1,1,2,2-Tetrachloroethane | 12.953 | 83  | 263    | Below Cal | #      | 81 |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75  | 116998 | 25.771    | ug/l # | 1  |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75  | 116998 | 74.775    | ug/l # | 15 |
| 95) Naphthalene               | 15.647 | 128 | 1846   | 0.351     | ug/l # | 77 |
| 96) 1,2,3-Trichlorobenzene    | 15.853 | 180 | 452    | 0.220     | ug/l # | 44 |

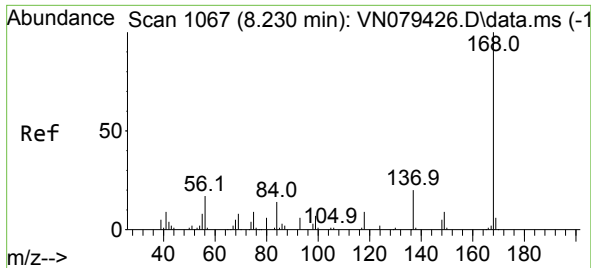
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Oct 06 03:34:49 2023  
Response via : Initial Calibration

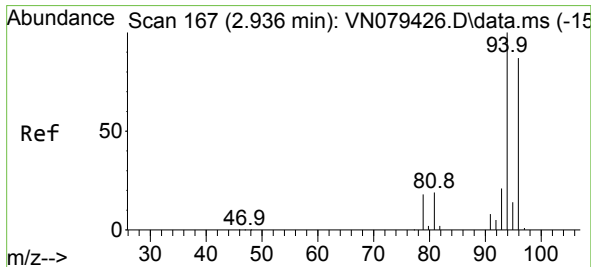
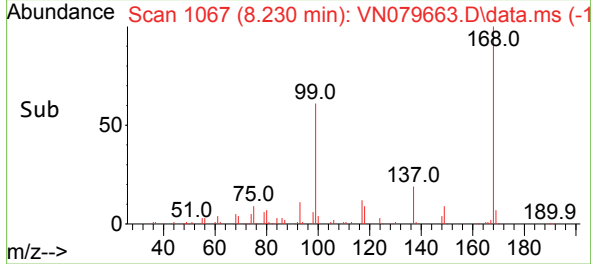
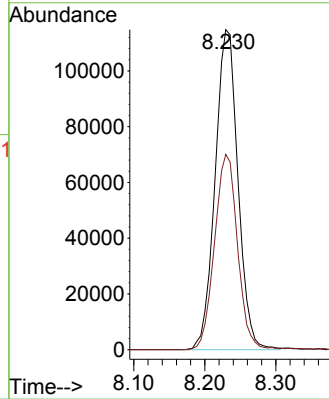
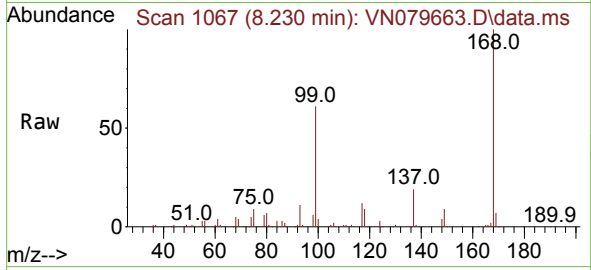




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN079663.D  
Acq: 24 Oct 2023 17:38

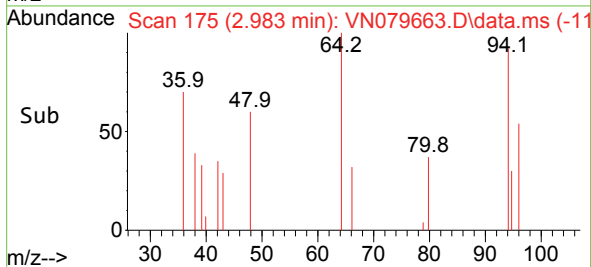
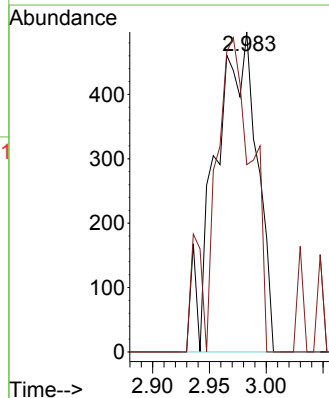
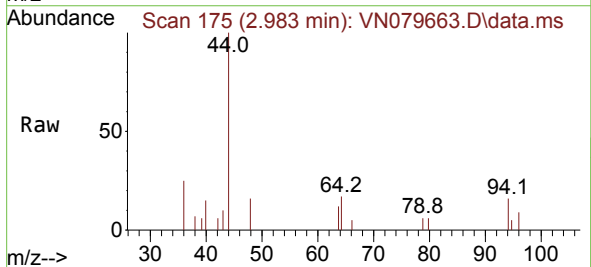
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MSVOA\_N  
ClientSampleId :  
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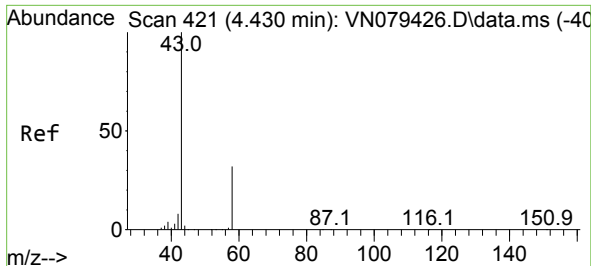
Tgt Ion:168 Resp: 255878  
Ion Ratio Lower Upper  
168 100  
99 61.1 53.0 79.6



#5  
Bromomethane  
Concen: 0.446 ug/l  
RT: 2.983 min Scan# 175  
Delta R.T. 0.047 min  
Lab File: VN079663.D  
Acq: 24 Oct 2023 17:38

Tgt Ion: 94 Resp: 1270  
Ion Ratio Lower Upper  
94 100  
96 58.6 73.1 109.7#

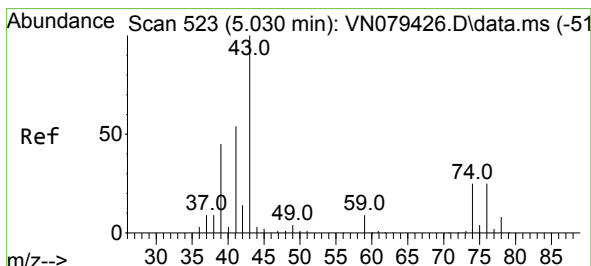
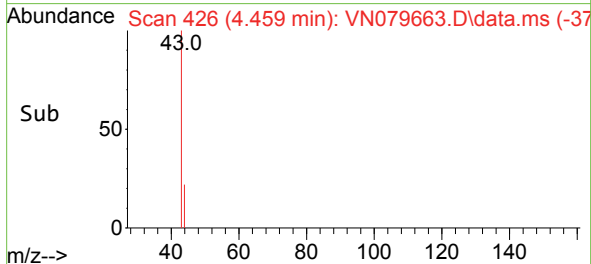
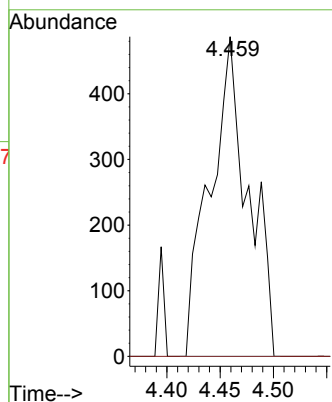
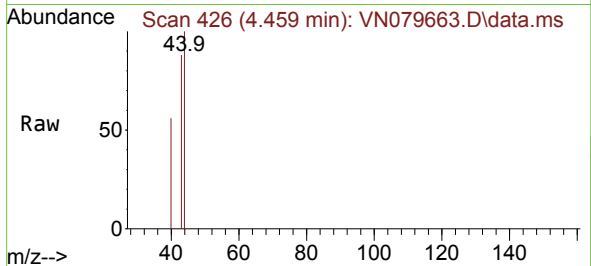




#16  
Acetone  
Concen: 0.741 ug/l  
RT: 4.459 min Scan# 41  
Delta R.T. 0.029 min  
Lab File: VN079663.D  
Acq: 24 Oct 2023 17:38

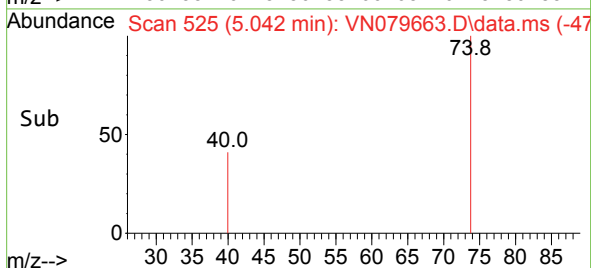
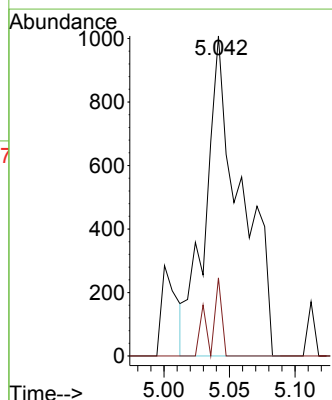
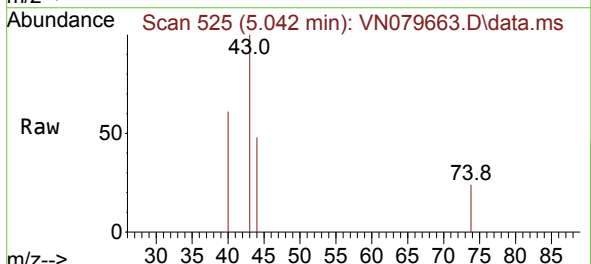
Instrument :  
MSVOA\_N  
ClientSampleId :  
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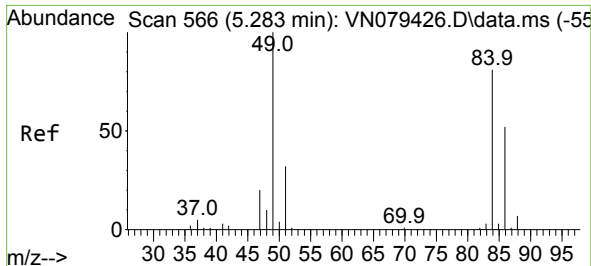
Tgt Ion: 43 Resp: 1220  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.0 42.0#



#18  
Methyl Acetate  
Concen: 0.237 ug/l  
RT: 5.042 min Scan# 525  
Delta R.T. 0.012 min  
Lab File: VN079663.D  
Acq: 24 Oct 2023 17:38

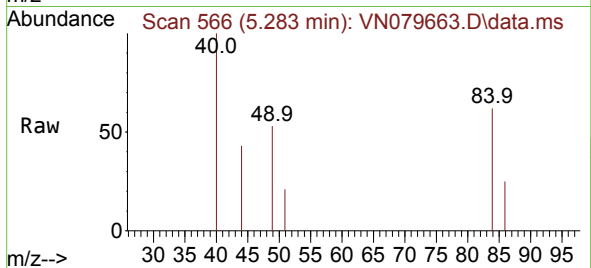
Tgt Ion: 43 Resp: 1909  
Ion Ratio Lower Upper  
43 100  
74 7.5 26.2 39.4#



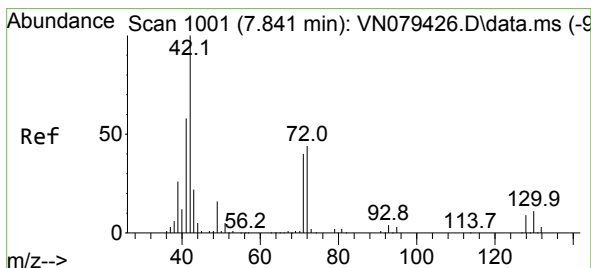
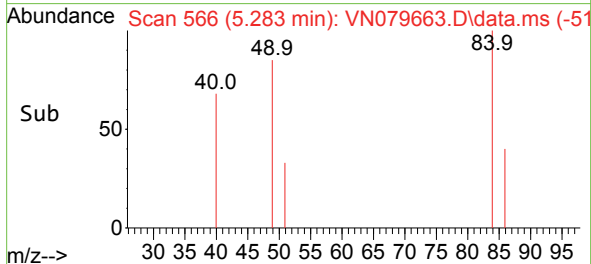
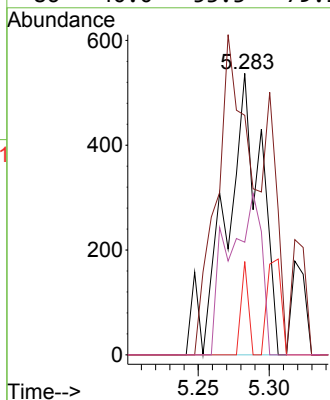


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.283 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VN079663.D  
Acq: 24 Oct 2023 17:38

Instrument :  
MSVOA\_N  
ClientSampleId :  
231010056-09-TRIP-BLANK

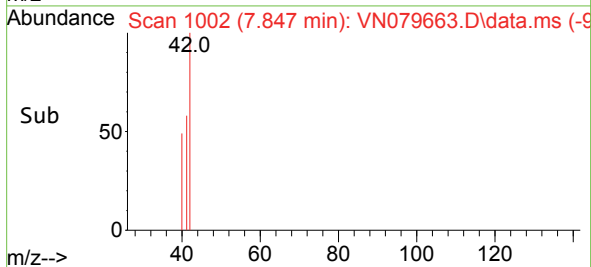
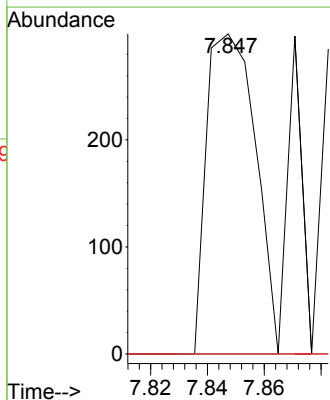
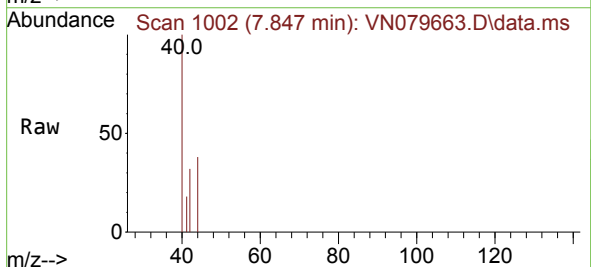


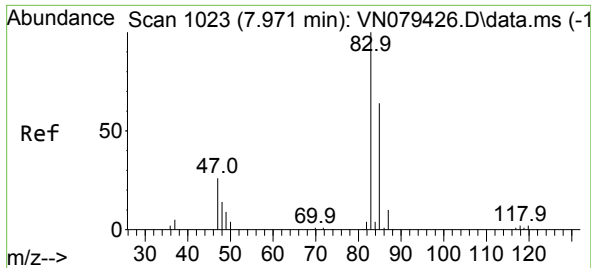
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 930   |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 85.1  | 79.7  | 119.5 |
| 51       | 33.1  | 25.2  | 37.8  |
| 86       | 40.0  | 53.3  | 79.9# |



#29  
Tetrahydrofuran  
Concen: 0.226 ug/l  
RT: 7.847 min Scan# 1002  
Delta R.T. 0.006 min  
Lab File: VN079663.D  
Acq: 24 Oct 2023 17:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 357   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 0.0   | 49.8  | 74.6# |
| 71       | 0.0   | 47.4  | 71.2# |

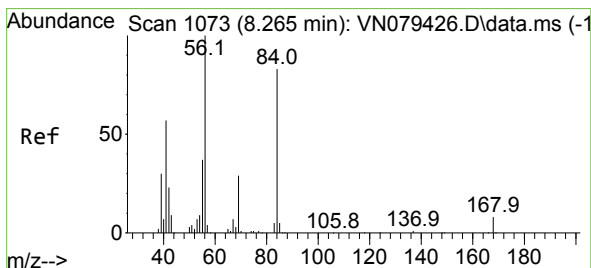
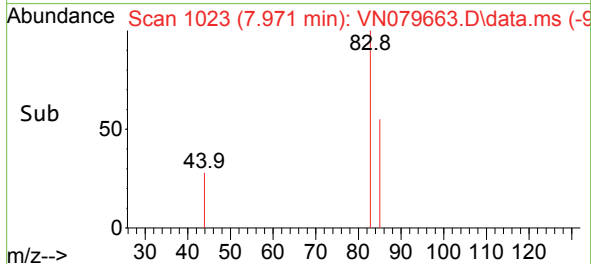
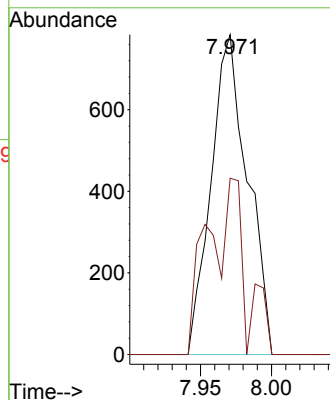
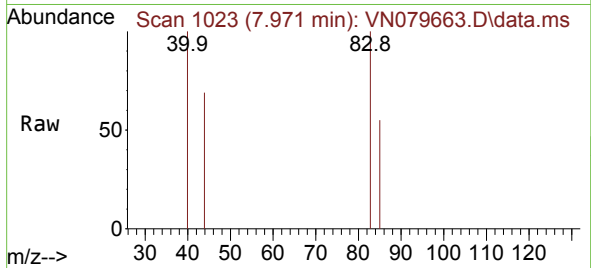




#30  
Chloroform  
Concen: 0.207 ug/l  
RT: 7.971 min Scan# 1023  
Delta R.T. 0.000 min  
Lab File: VN079663.D  
Acq: 24 Oct 2023 17:38

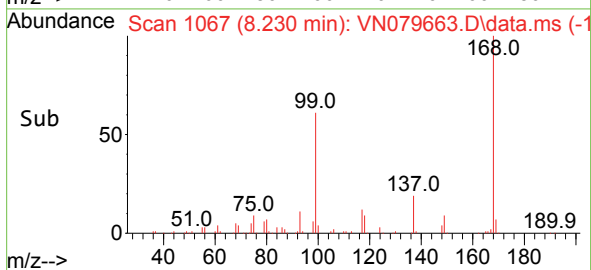
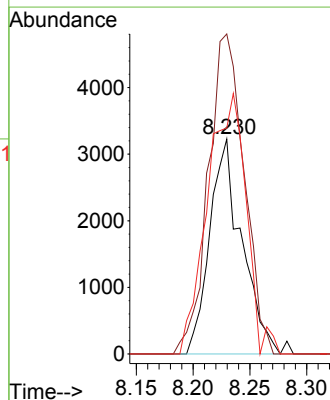
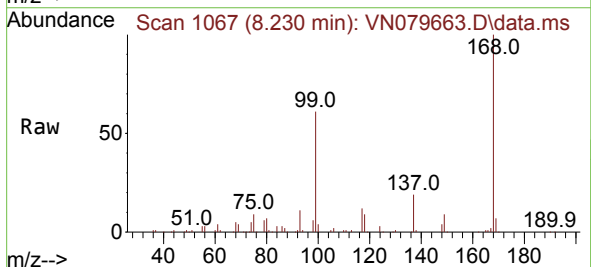
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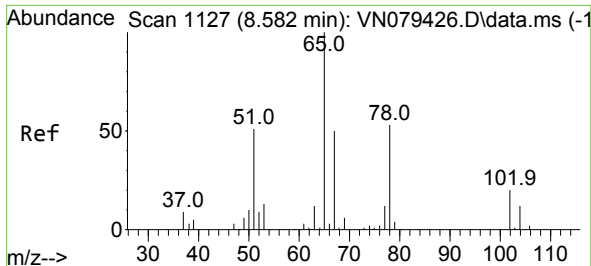
Tgt Ion: 83 Resp: 1403  
Ion Ratio Lower Upper  
83 100  
85 55.1 55.4 83.0#



#31  
Cyclohexane  
Concen: 1.076 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.035 min  
Lab File: VN079663.D  
Acq: 24 Oct 2023 17:38

Tgt Ion: 56 Resp: 6331  
Ion Ratio Lower Upper  
56 100  
69 148.9 26.8 40.2#  
84 105.2 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 52.652 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079663.D

Acq: 24 Oct 2023 17:38

Instrument :

MSVOA\_N

ClientSampleId :

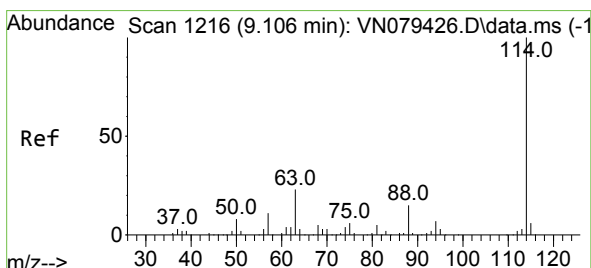
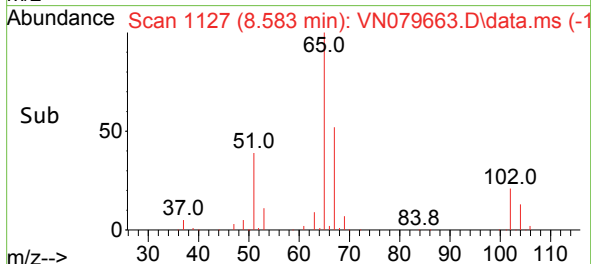
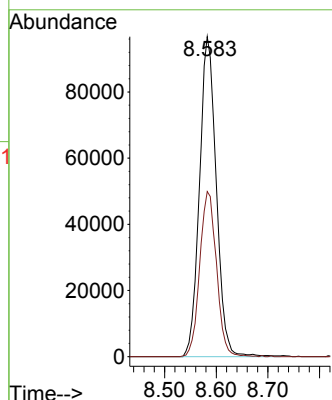
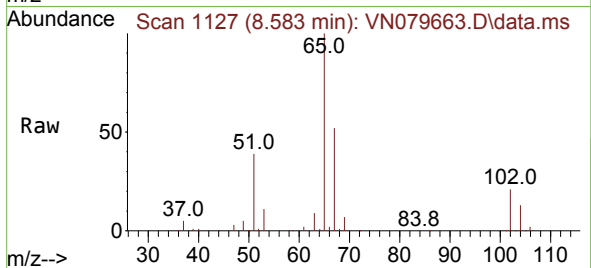
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Tgt Ion: 65 Resp: 218446

Ion Ratio Lower Upper

65 100

67 51.3 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN079663.D

Acq: 24 Oct 2023 17:38

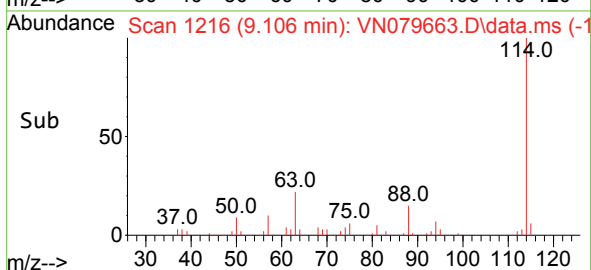
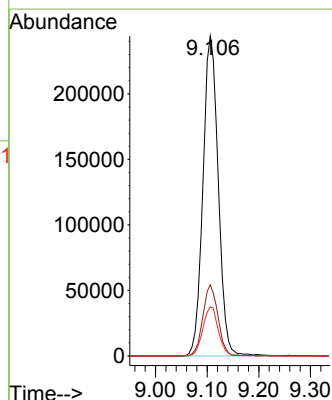
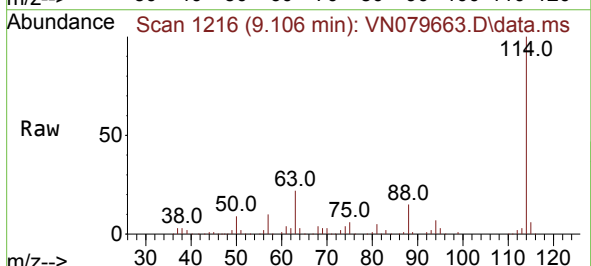
Tgt Ion: 114 Resp: 502804

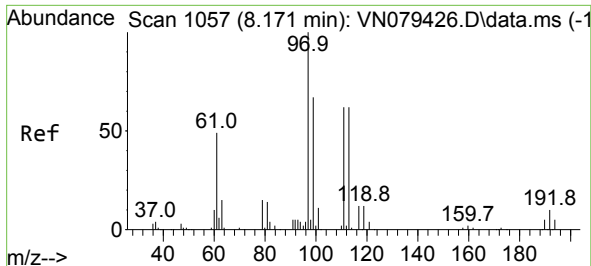
Ion Ratio Lower Upper

114 100

63 22.2 0.0 36.4

88 15.3 0.0 30.6





#35

Dibromofluoromethane

Concen: 54.224 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VN079663.D

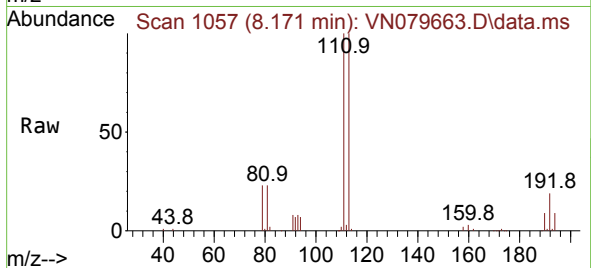
Acq: 24 Oct 2023 17:38

Instrument :

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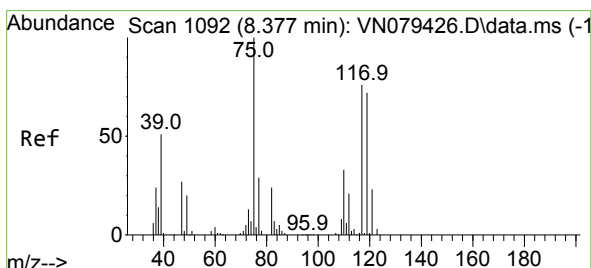
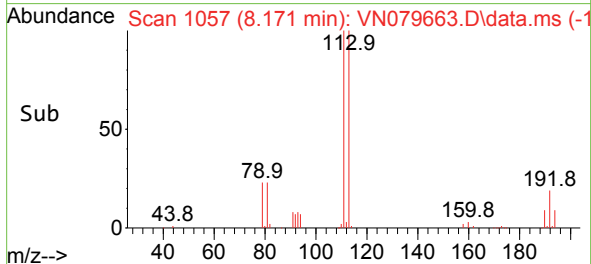
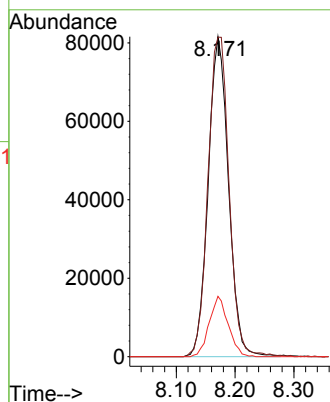
Tgt Ion:113 Resp: 195929

Ion Ratio Lower Upper

113 100

111 103.6 82.6 123.8

192 17.6 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.281 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN079663.D

Acq: 24 Oct 2023 17:38

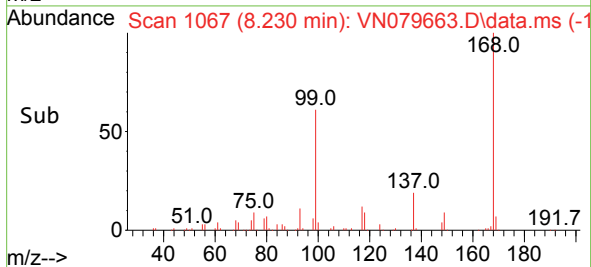
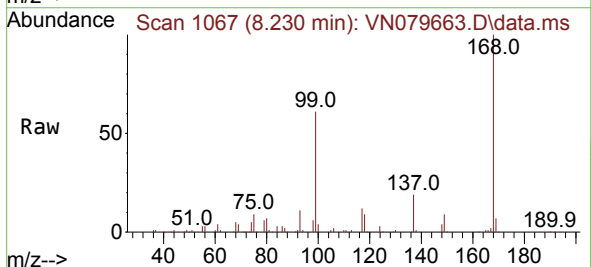
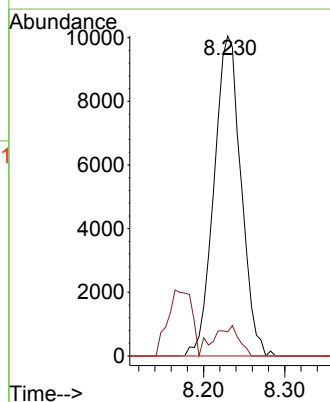
Tgt Ion: 75 Resp: 23217

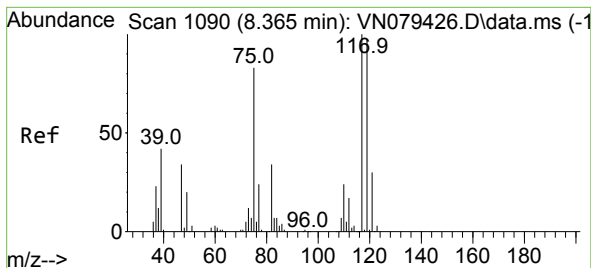
Ion Ratio Lower Upper

75 100

110 7.5 19.1 57.3#

77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.376 ug/l

RT: 8.230 min Scan# 1106

Delta R.T. -0.135 min

Lab File: VN079663.D

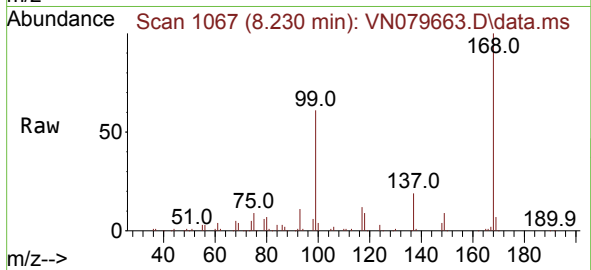
Acq: 24 Oct 2023 17:38

Instrument :

MSVOA\_N

ClientSampleId :

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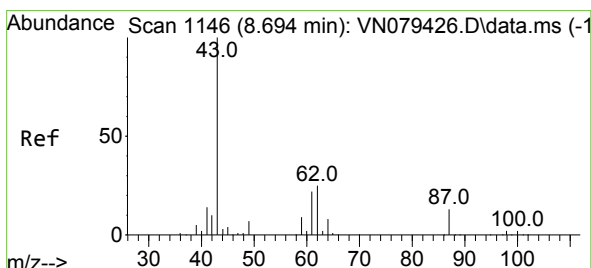
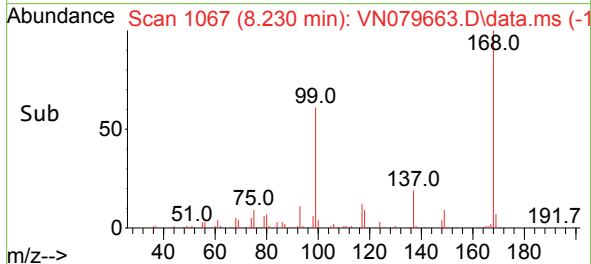
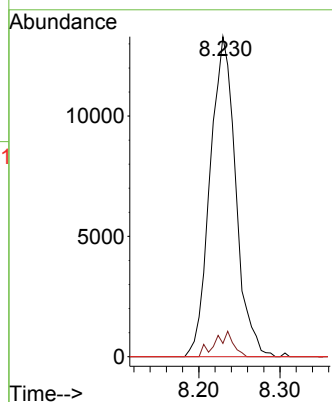
Tgt Ion:117 Resp: 29189

Ion Ratio Lower Upper

117 100

119 4.2 77.3 115.9#

121 0.0 23.3 34.9#



#43

Isopropyl Acetate

Concen: 0.611 ug/l

RT: 8.753 min Scan# 1156

Delta R.T. 0.059 min

Lab File: VN079663.D

Acq: 24 Oct 2023 17:38

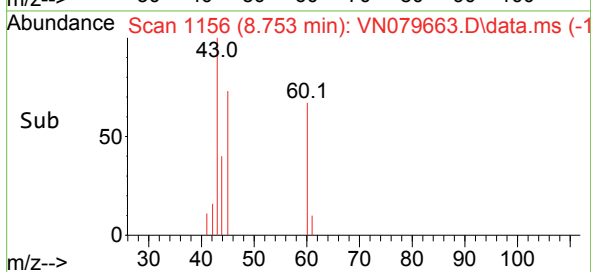
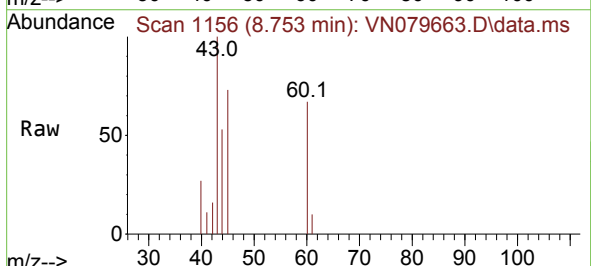
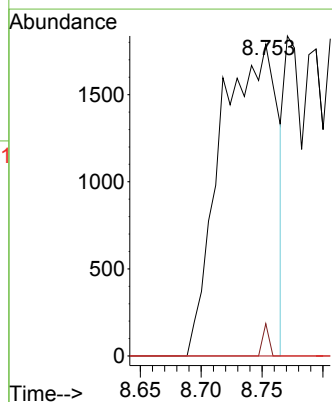
Tgt Ion: 43 Resp: 5776

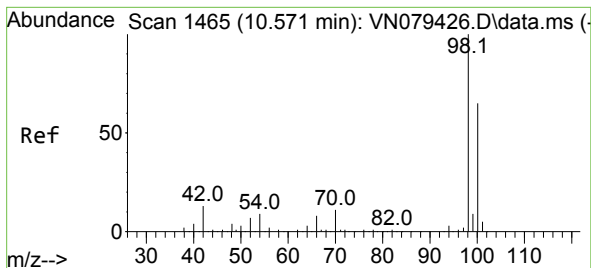
Ion Ratio Lower Upper

43 100

61 0.0 24.7 37.1#

87 0.0 14.6 21.8#





#50

Toluene-d8

Concen: 46.601 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN079663.D

Acq: 24 Oct 2023 17:38

Instrument :

MSVOA\_N

ClientSampleId :

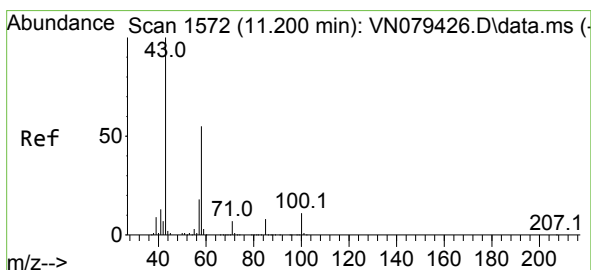
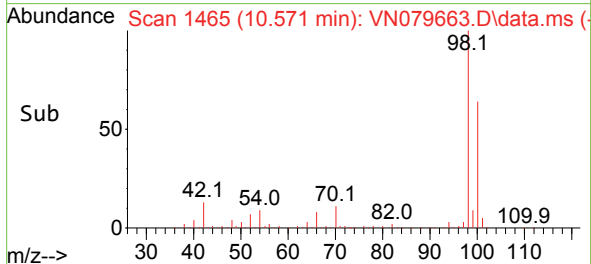
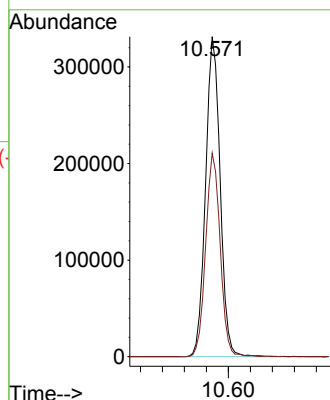
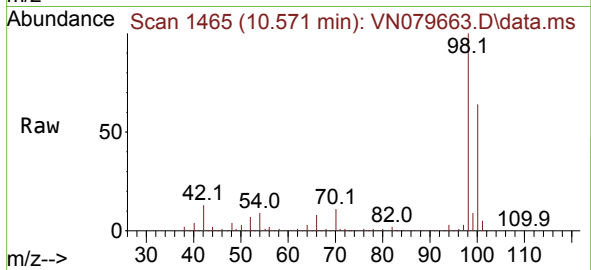
231010056-09-TRIP-BLANK

Tgt Ion: 98 Resp: 609261

Ion Ratio Lower Upper

98 100

100 63.3 52.0 78.0



#59

2-Hexanone

Concen: 0.240 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. -0.000 min

Lab File: VN079663.D

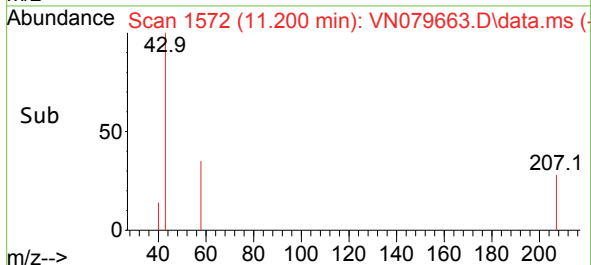
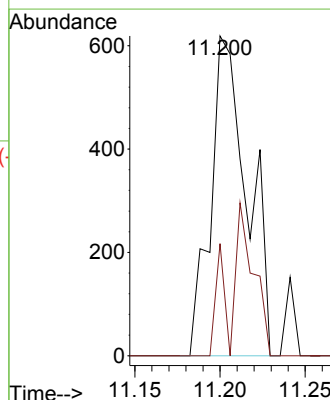
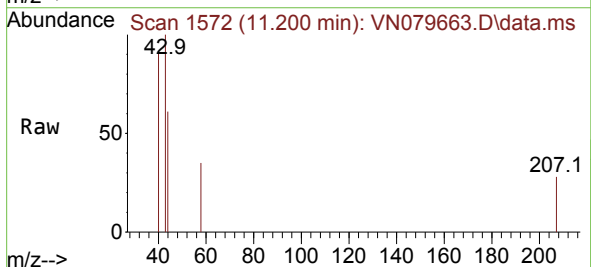
Acq: 24 Oct 2023 17:38

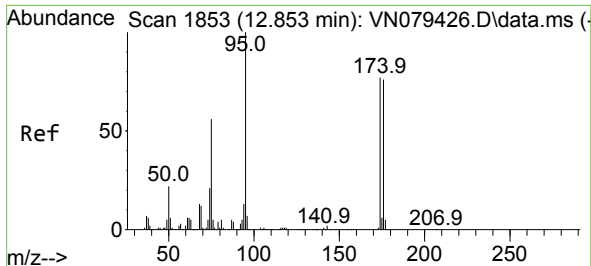
Tgt Ion: 43 Resp: 923

Ion Ratio Lower Upper

43 100

58 31.6 31.7 95.1#

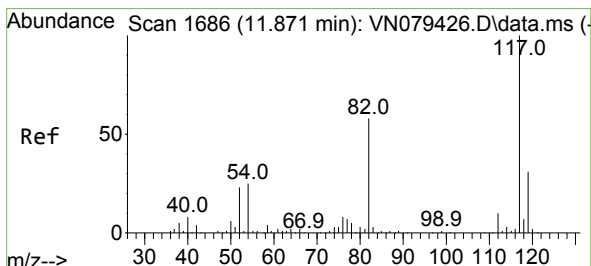
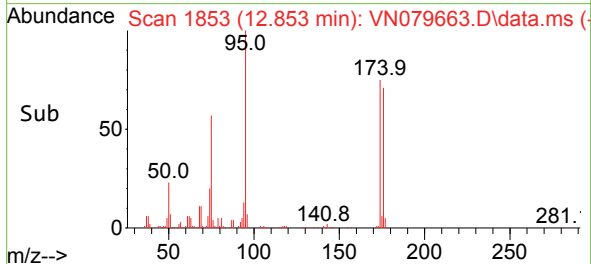
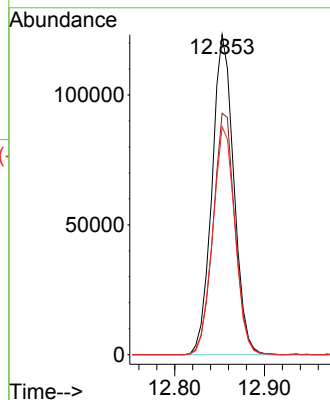
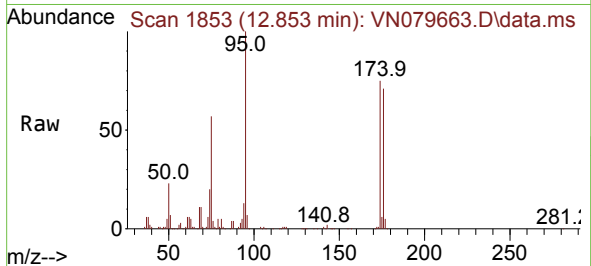




#62  
4-Bromofluorobenzene  
Concen: 49.349 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.000 min  
Lab File: VN079663.D  
Acq: 24 Oct 2023 17:38

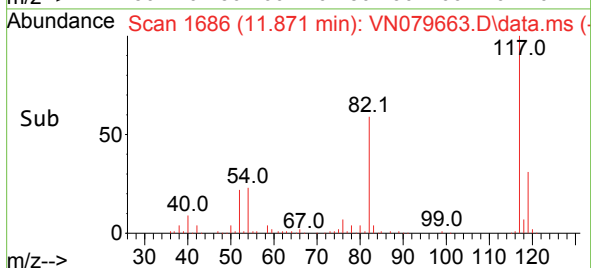
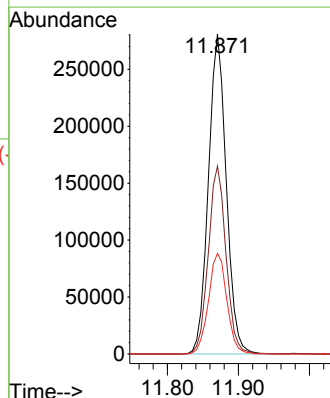
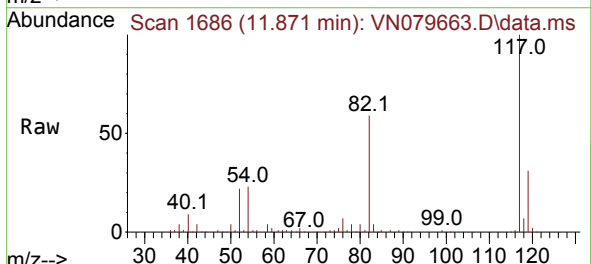
Instrument :  
MSVOA\_N  
ClientSampleId :  
231010056-09-TRIP-BLANK

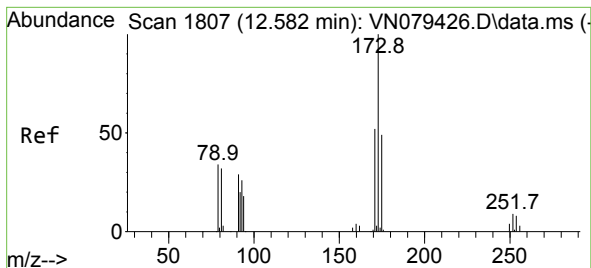
Tgt Ion: 95 Resp: 207057  
Ion Ratio Lower Upper  
95 100  
174 76.4 0.0 143.8  
176 72.8 0.0 135.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VN079663.D  
Acq: 24 Oct 2023 17:38

Tgt Ion: 117 Resp: 490674  
Ion Ratio Lower Upper  
117 100  
82 58.7 44.0 66.0  
119 31.4 25.6 38.4





#71

Bromoform

Concen: 0.402 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.271 min

Lab File: VN079663.D

Acq: 24 Oct 2023 17:38

Instrument :

MSVOA\_N

ClientSampleId :

231010056-09-TRIP-BLANK

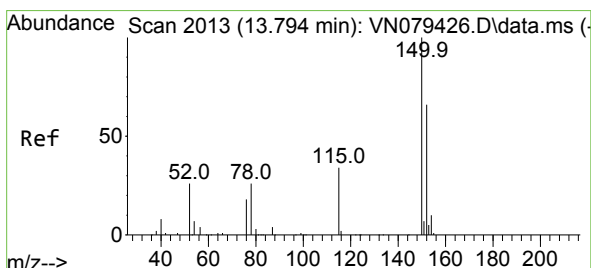
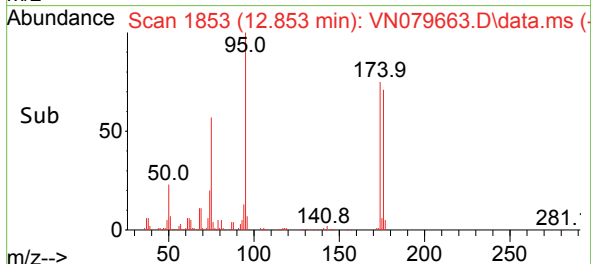
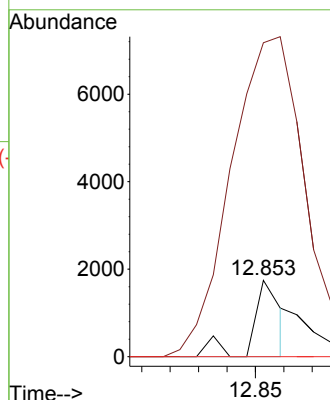
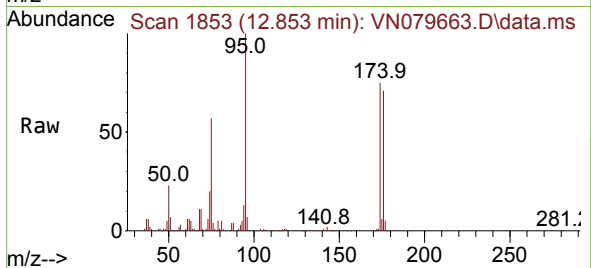
Tgt Ion:173 Resp: 1177

Ion Ratio Lower Upper

173 100

175 0.0 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN079663.D

Acq: 24 Oct 2023 17:38

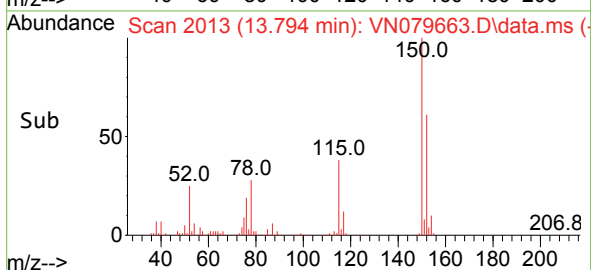
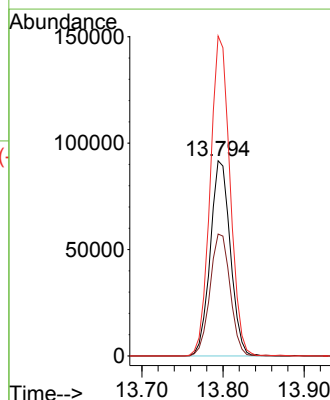
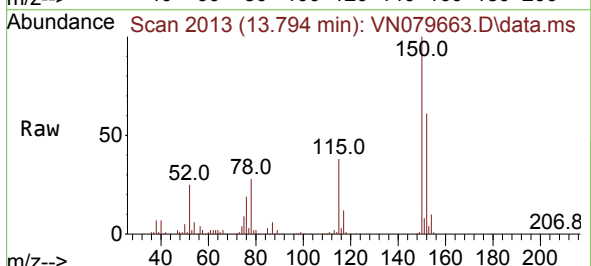
Tgt Ion:152 Resp: 157459

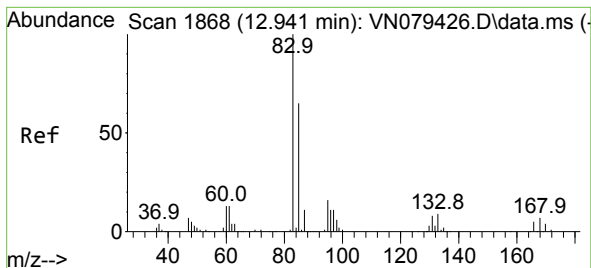
Ion Ratio Lower Upper

152 100

115 62.7 32.3 96.8

150 161.6 0.0 355.8





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.953 min Scan# 1853

Delta R.T. 0.012 min

Lab File: VN079663.D

Acq: 24 Oct 2023 17:38

Instrument :

MSVOA\_N

ClientSampleId :

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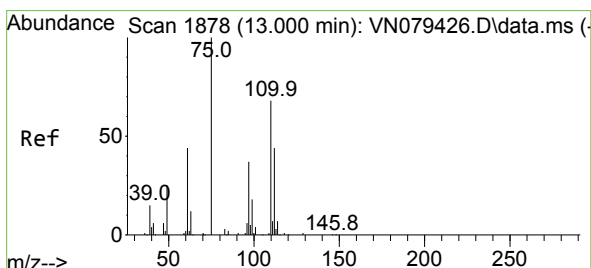
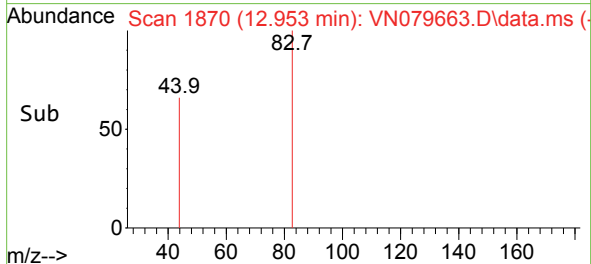
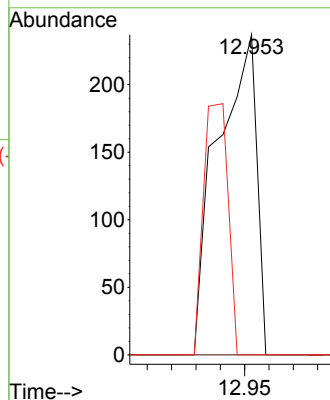
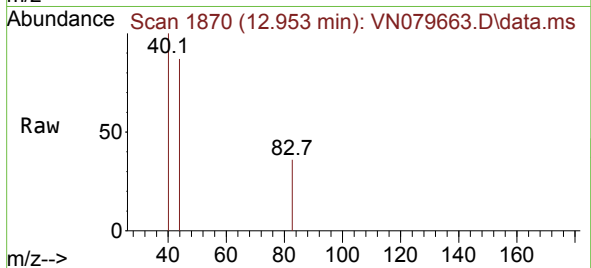
Tgt Ion: 83 Resp: 263

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 49.8 31.9 95.7



#76

1,2,3-Trichloropropane

Concen: 25.771 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN079663.D

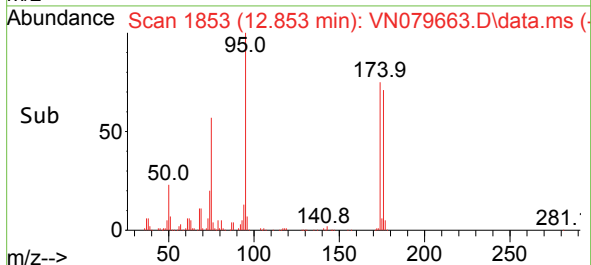
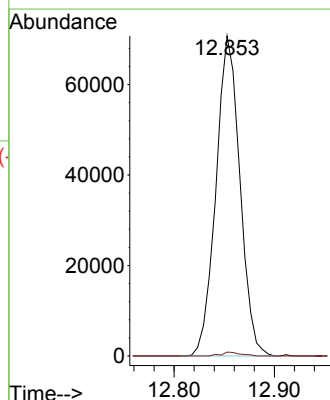
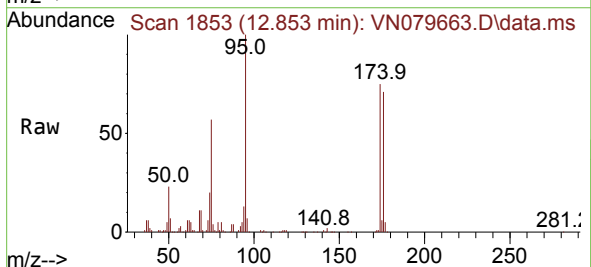
Acq: 24 Oct 2023 17:38

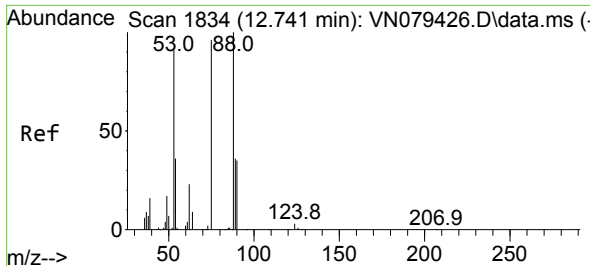
Tgt Ion: 75 Resp: 116998

Ion Ratio Lower Upper

75 100

77 1.0 84.5 253.5#

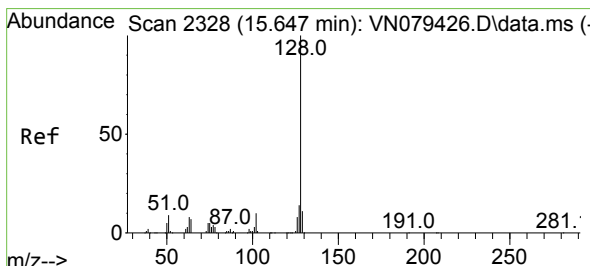
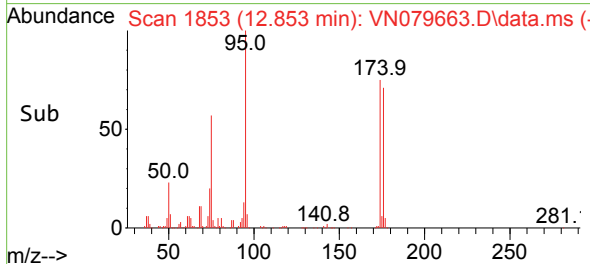
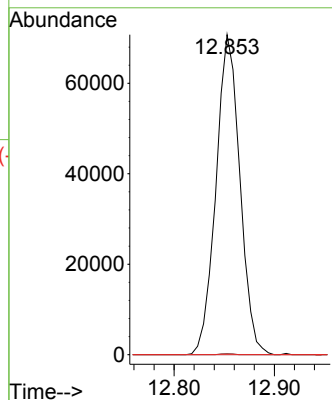
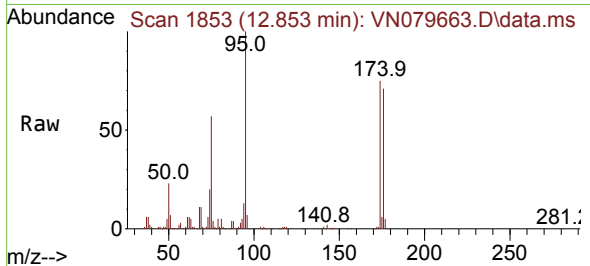




#81  
trans-1,4-Dichloro-2-butene  
Concen: 74.775 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.112 min  
Lab File: VN079663.D  
Acq: 24 Oct 2023 17:38

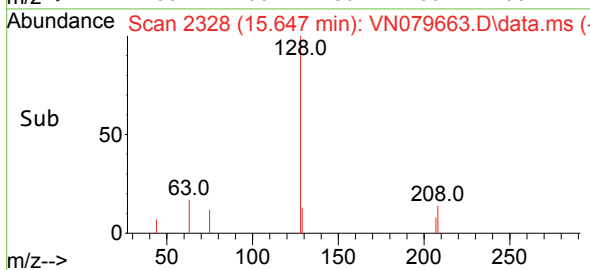
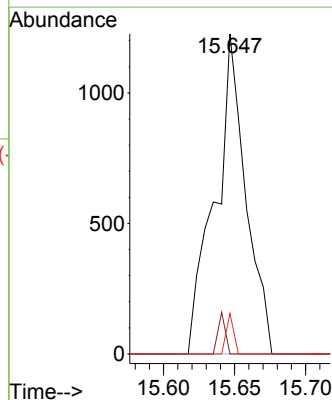
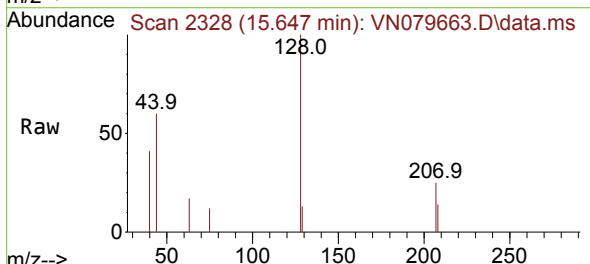
Instrument : MSVOA\_N  
ClientSampleId : 231010056-09-TRIP-BLANK

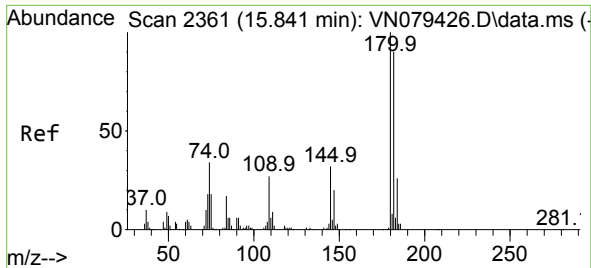
Tgt Ion: 75 Resp: 116998  
Ion Ratio Lower Upper  
75 100  
53 0.2 67.4 101.2#  
89 0.0 38.8 58.2#



#95  
Naphthalene  
Concen: 0.351 ug/l  
RT: 15.647 min Scan# 2328  
Delta R.T. -0.000 min  
Lab File: VN079663.D  
Acq: 24 Oct 2023 17:38

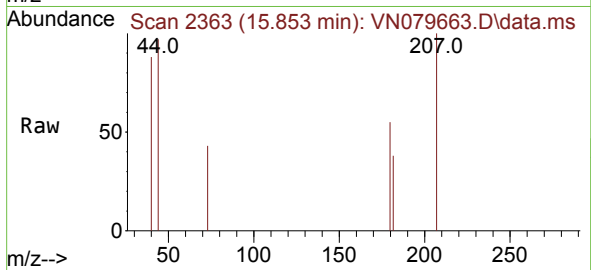
Tgt Ion:128 Resp: 1846  
Ion Ratio Lower Upper  
128 100  
127 3.0 10.0 15.0#  
129 3.0 8.7 13.1#





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.220 ug/l  
 RT: 15.853 min Scan# 21  
 Delta R.T. 0.012 min  
 Lab File: VN079663.D  
 Acq: 24 Oct 2023 17:38

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 231010056-09-TRIP-BLANK



Tgt Ion:180 Resp: 452  
 Ion Ratio Lower Upper  
 180 100  
 182 32.1 46.2 138.6#  
 145 13.7 17.5 52.6#

