

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090223\  
 Data File : VN079155.D  
 Acq On : 02 Sep 2023 19:59  
 Operator : JC\MD  
 Sample : 04285-01 200X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 830

Quant Time: Sep 04 01:10:08 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081523W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 16 02:42:02 2023  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.230  | 168  | 256239   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 9.106  | 114  | 481843   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.870 | 117  | 352592   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.794 | 152  | 143619   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.582  | 65    | 192108   | 48.180   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | =    | 96.360%  |
| 35) Dibromofluoromethane    | 8.171  | 113   | 168062   | 51.815   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 103.620% |
| 50) Toluene-d8              | 10.571 | 98    | 571362   | 47.442   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | =    | 94.880%  |
| 62) 4-Bromofluorobenzene    | 12.853 | 95    | 186085   | 47.271   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | =    | 94.540%  |

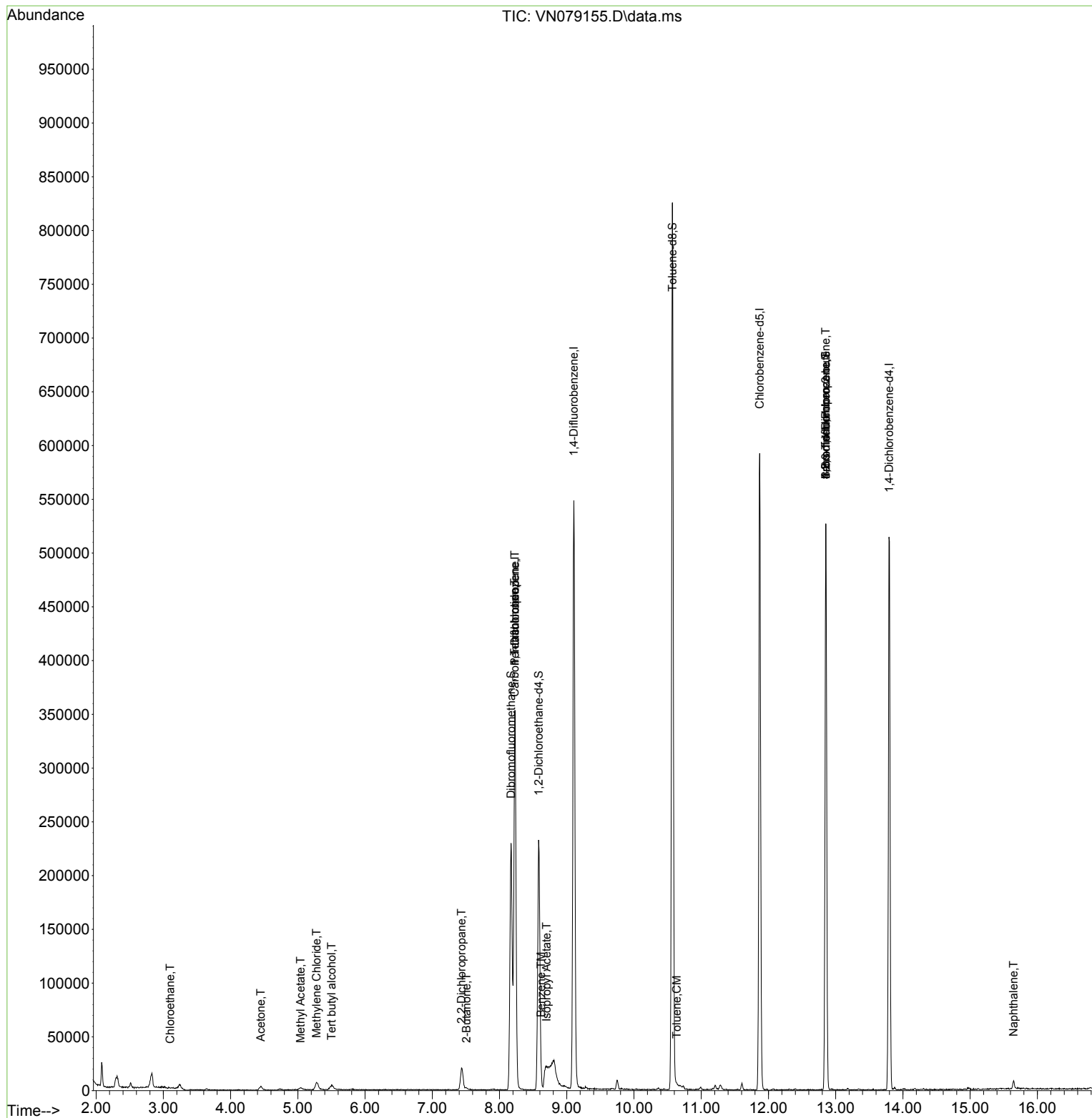
| Target Compounds              |        |     |       |           | Qvalue |    |
|-------------------------------|--------|-----|-------|-----------|--------|----|
| 6) Chloroethane               | 3.100  | 64  | 779   | 0.256     | ug/l # | 43 |
| 11) Tert butyl alcohol        | 5.500  | 59  | 4029  | 6.022     | ug/l # | 72 |
| 16) Acetone                   | 4.447  | 43  | 6757  | 4.107     | ug/l   | 94 |
| 18) Methyl Acetate            | 5.042  | 43  | 4138  | 0.595     | ug/l # | 67 |
| 20) Methylene Chloride        | 5.277  | 84  | 5598  | 1.597     | ug/l   | 89 |
| 25) 2-Butanone                | 7.506  | 43  | 2785  | 1.056     | ug/l # | 70 |
| 26) 2,2-Dichloropropane       | 7.435  | 77  | 1463  | 0.286     | ug/l # | 53 |
| 31) Cyclohexane               | 8.224  | 56  | 6457  | Below Cal | #      | 32 |
| 36) 1,1-Dichloropropene       | 8.230  | 75  | 21021 | 4.308     | ug/l # | 47 |
| 38) Carbon Tetrachloride      | 8.224  | 117 | 26455 | 5.411     | ug/l # | 14 |
| 40) Benzene                   | 8.618  | 78  | 4886  | 0.339     | ug/l # | 86 |
| 43) Isopropyl Acetate         | 8.700  | 43  | 21766 | 2.256     | ug/l # | 54 |
| 52) Toluene                   | 10.635 | 92  | 1815  | 0.205     | ug/l   | 90 |
| 71) Bromoform                 | 12.853 | 173 | 1213  | 0.588     | ug/l # | 1  |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75  | 96828 | 27.981    | ug/l # | 1  |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75  | 96828 | 71.479    | ug/l # | 15 |
| 95) Naphthalene               | 15.647 | 128 | 7587  | 3.662     | ug/l   | 98 |

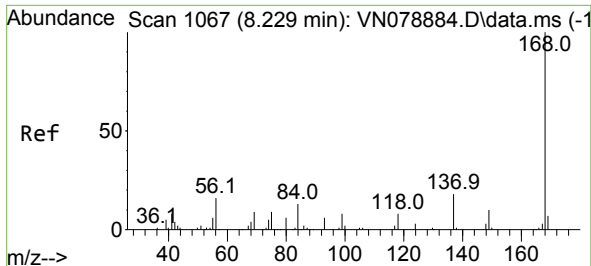
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090223\  
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Sample : 04285-01 200X  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
830

Quant Time: Sep 04 01:10:08 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081523W.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 16 02:42:02 2023  
Response via : Initial Calibration

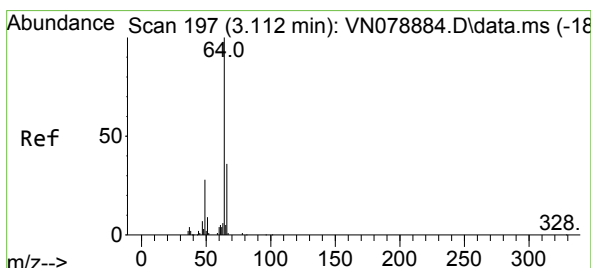
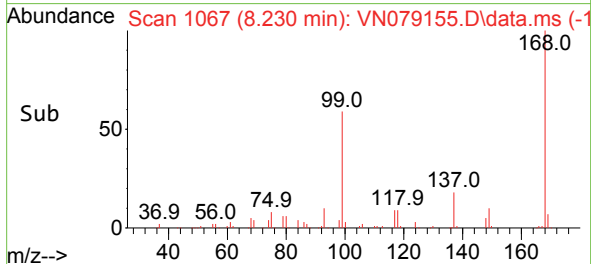
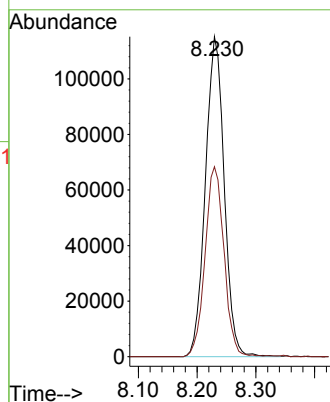
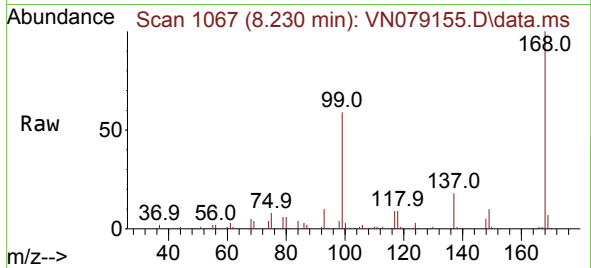




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.000 min  
Lab File: VN079155.D  
Acq: 02 Sep 2023 19:59

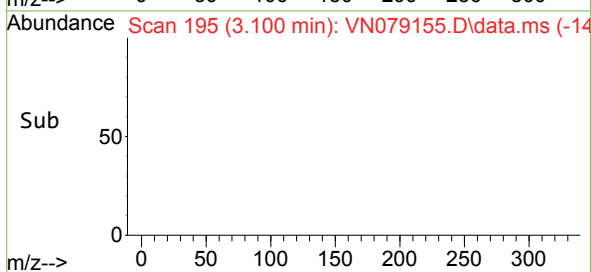
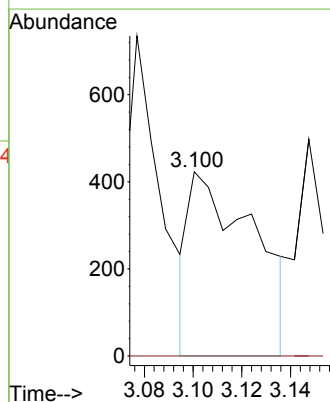
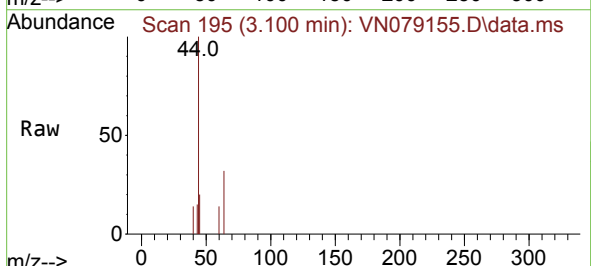
Instrument :  
MSVOA\_N  
ClientSampleId :  
830

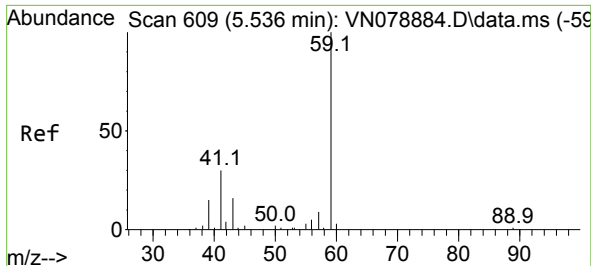
Tgt Ion:168 Resp: 256239  
Ion Ratio Lower Upper  
168 100  
99 59.4 53.0 79.6



#6  
Chloroethane  
Concen: 0.256 ug/l  
RT: 3.100 min Scan# 195  
Delta R.T. -0.018 min  
Lab File: VN079155.D  
Acq: 02 Sep 2023 19:59

Tgt Ion: 64 Resp: 779  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.2#





#11

Tert butyl alcohol

Concen: 6.022 ug/l

RT: 5.500 min Scan# 609

Delta R.T. -0.042 min

Lab File: VN079155.D

Acq: 02 Sep 2023 19:59

Instrument :

MSVOA\_N

ClientSampleId :

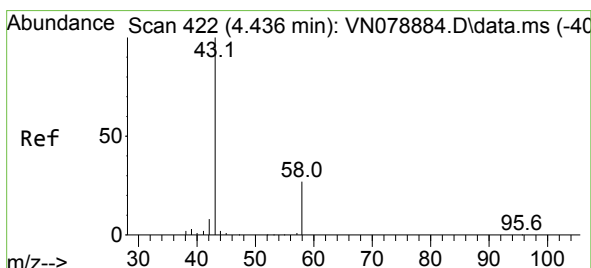
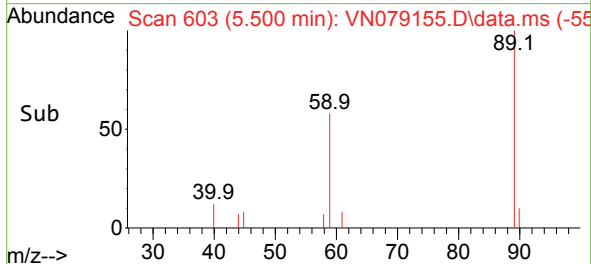
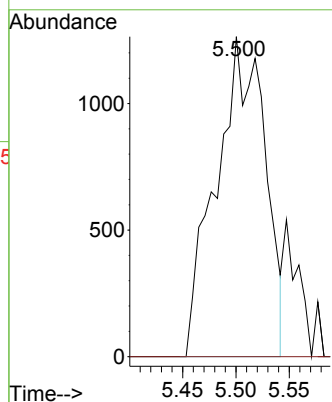
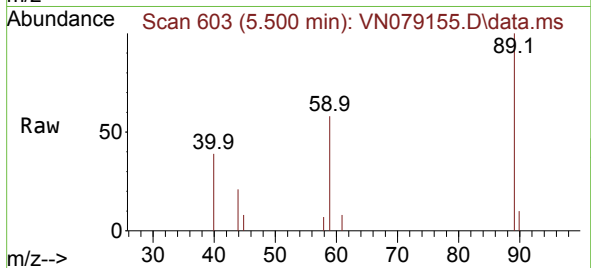
830

Tgt Ion: 59 Resp: 4029

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#16

Acetone

Concen: 4.107 ug/l

RT: 4.447 min Scan# 424

Delta R.T. 0.005 min

Lab File: VN079155.D

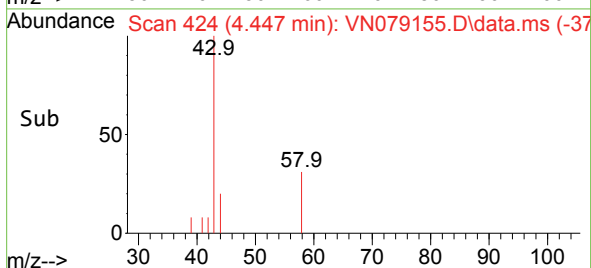
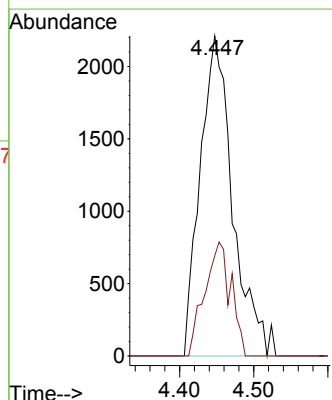
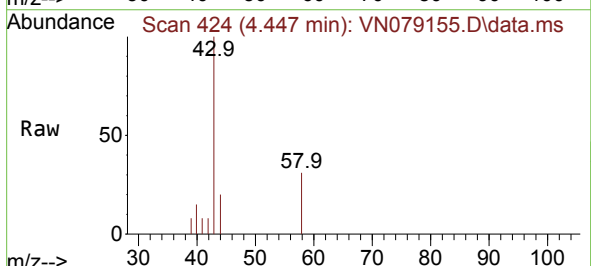
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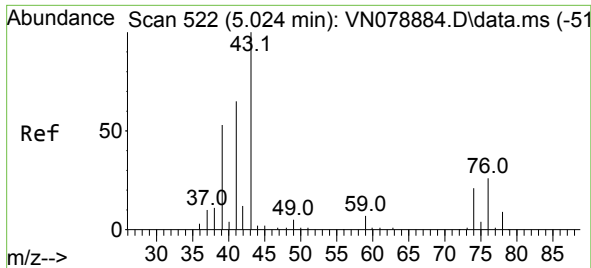
Tgt Ion: 43 Resp: 6757

Ion Ratio Lower Upper

43 100

58 31.3 28.0 42.0

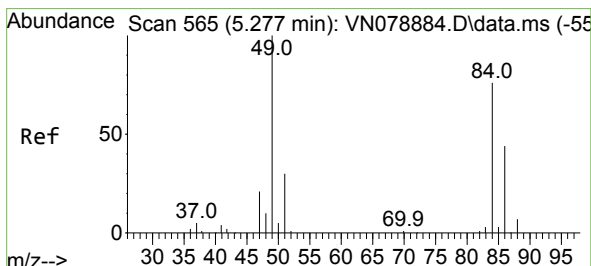
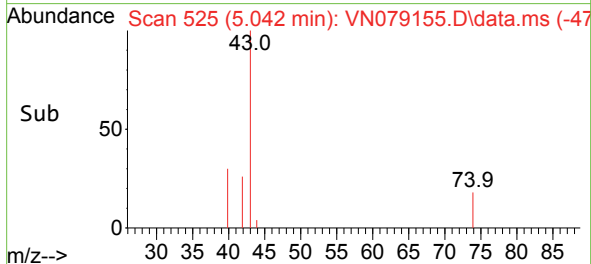
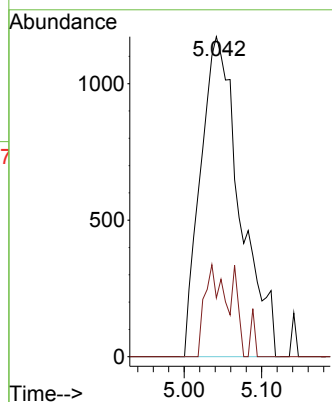
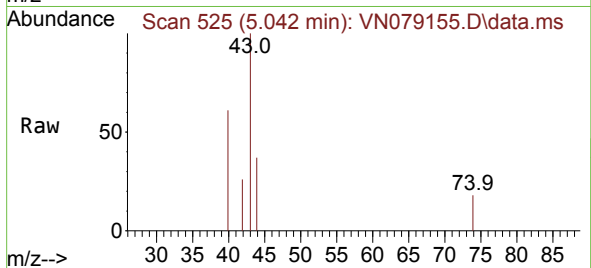




#18  
Methyl Acetate  
Concen: 0.595 ug/l  
RT: 5.042 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VN079155.D  
Acq: 02 Sep 2023 19:59

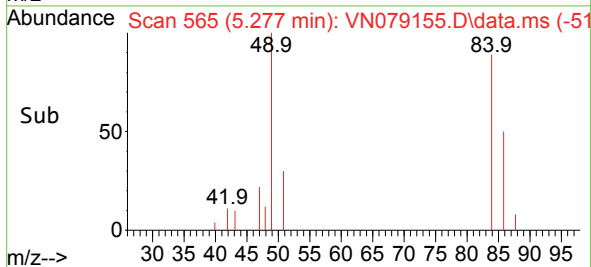
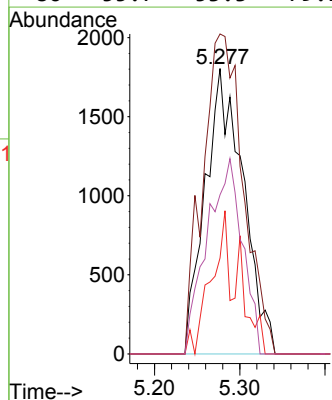
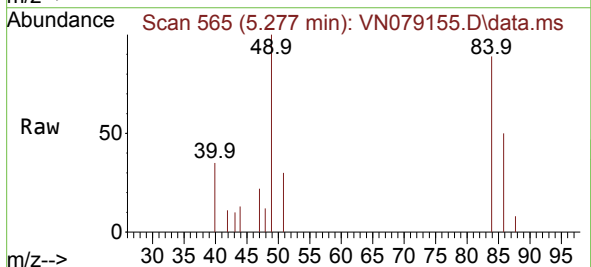
Instrument :  
MSVOA\_N  
ClientSampleId :  
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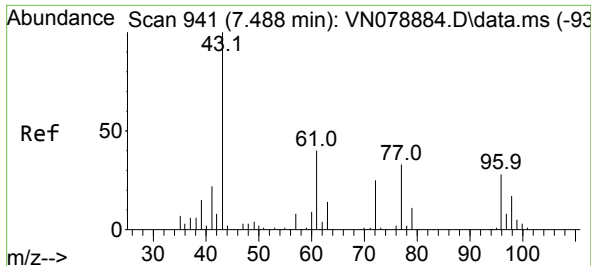
Tgt Ion: 43 Resp: 4138  
Ion Ratio Lower Upper  
43 100  
74 14.0 26.2 39.4#



#20  
Methylene Chloride  
Concen: 1.597 ug/l  
RT: 5.277 min Scan# 565  
Delta R.T. -0.006 min  
Lab File: VN079155.D  
Acq: 02 Sep 2023 19:59

Tgt Ion: 84 Resp: 5598  
Ion Ratio Lower Upper  
84 100  
49 112.1 79.7 119.5  
51 33.6 25.2 37.8  
86 55.7 53.3 79.9

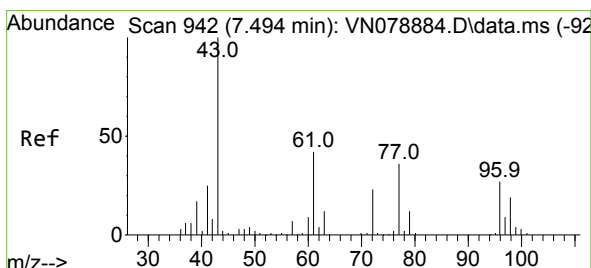
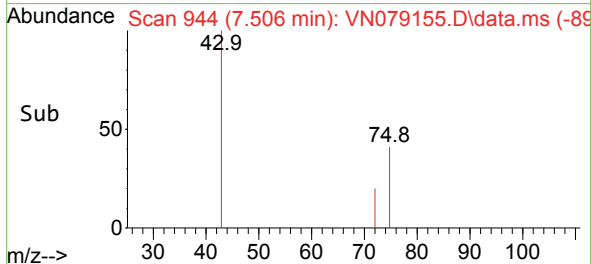
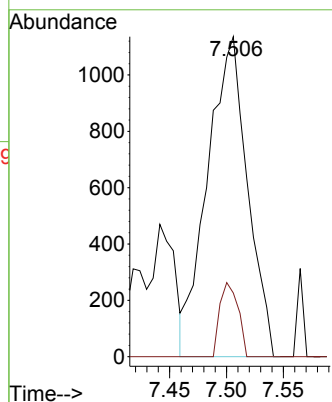
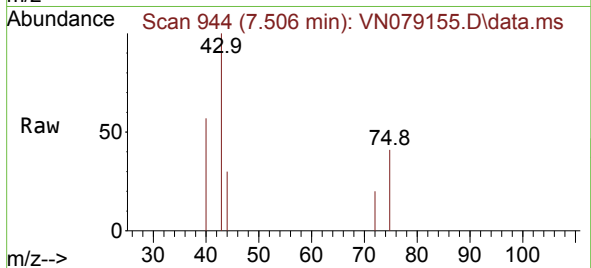




#25  
2-Butanone  
Concen: 1.056 ug/l  
RT: 7.506 min Scan# 941  
Delta R.T. 0.012 min  
Lab File: VN079155.D  
Acq: 02 Sep 2023 19:59

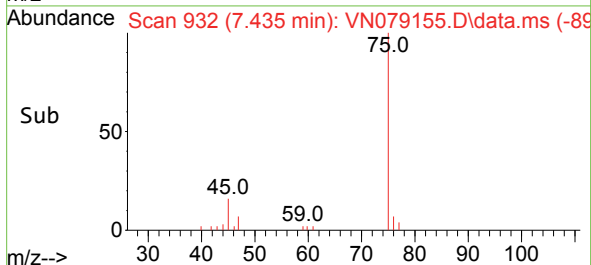
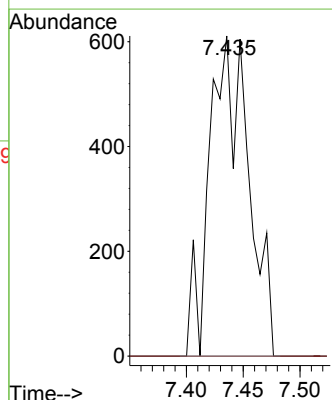
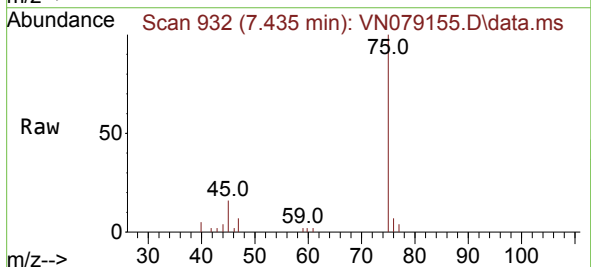
Instrument :  
MSVOA\_N  
ClientSampleId :  
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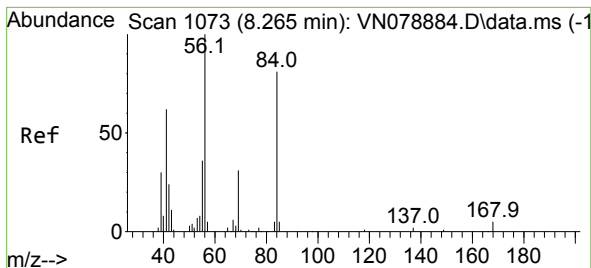
Tgt Ion: 43 Resp: 2785  
Ion Ratio Lower Upper  
43 100  
72 19.9 30.2 45.2#



#26  
2,2-Dichloropropane  
Concen: 0.286 ug/l  
RT: 7.435 min Scan# 932  
Delta R.T. -0.065 min  
Lab File: VN079155.D  
Acq: 02 Sep 2023 19:59

Tgt Ion: 77 Resp: 1463  
Ion Ratio Lower Upper  
77 100  
97 0.0 11.2 33.6#





#31

Cyclohexane

Concen: Below Cal

RT: 8.224 min Scan# 1066

Delta R.T. -0.041 min

Lab File: VN079155.D

Acq: 02 Sep 2023 19:59

Instrument :

MSVOA\_N

ClientSampleId :

830

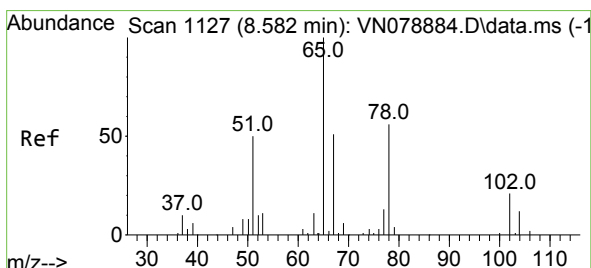
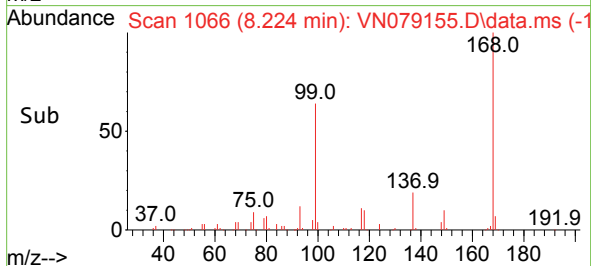
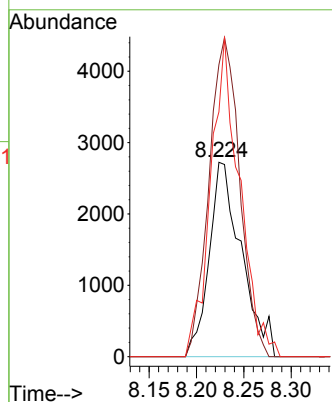
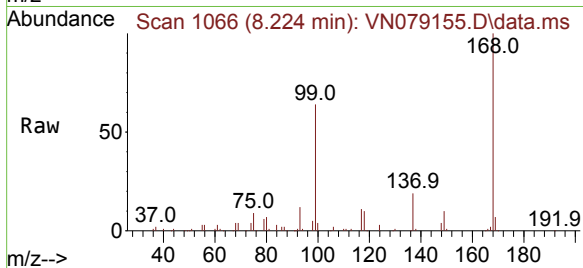
Tgt Ion: 56 Resp: 6457

Ion Ratio Lower Upper

56 100

69 150.2 26.8 40.2#

84 126.0 81.8 122.6#



#33

1,2-Dichloroethane-d4

Concen: 48.180 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.001 min

Lab File: VN079155.D

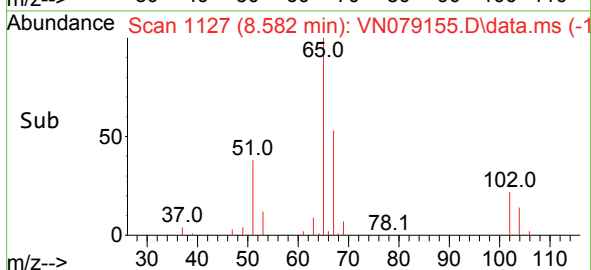
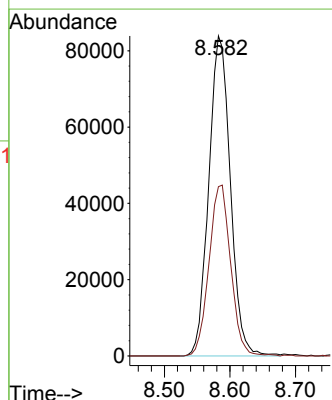
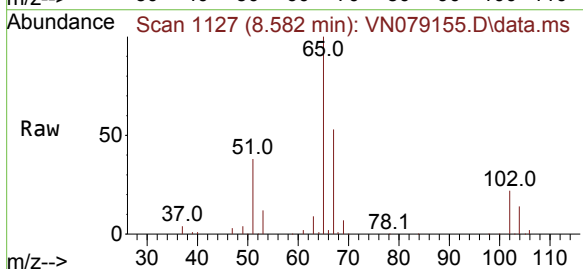
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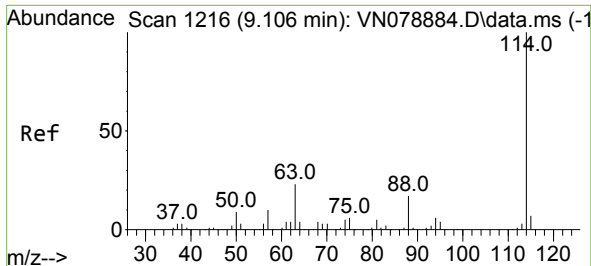
Tgt Ion: 65 Resp: 192108

Ion Ratio Lower Upper

65 100

67 53.6 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN079155.D

Acq: 02 Sep 2023 19:59

Instrument :

MSVOA\_N

ClientSampleId :

830

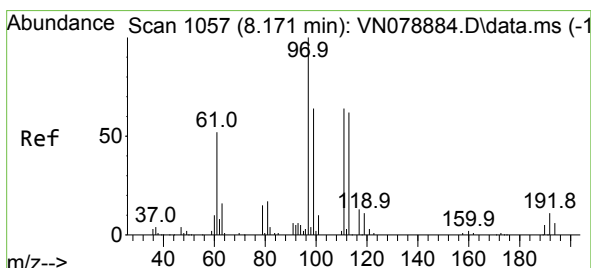
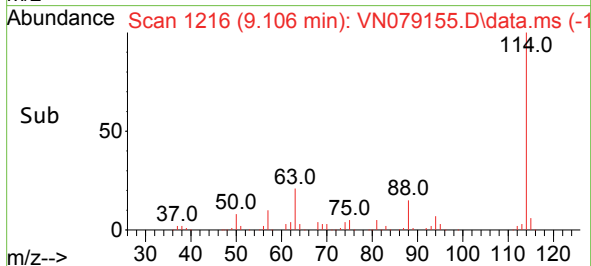
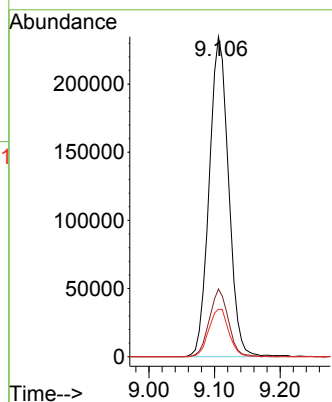
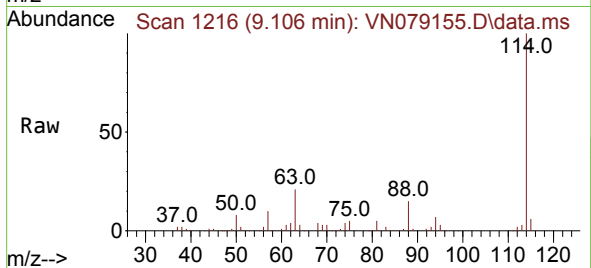
Tgt Ion:114 Resp: 481843

Ion Ratio Lower Upper

114 100

63 21.2 0.0 36.4

88 14.8 0.0 30.6



#35

Dibromofluoromethane

Concen: 51.815 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN079155.D

Acq: 02 Sep 2023 19:59

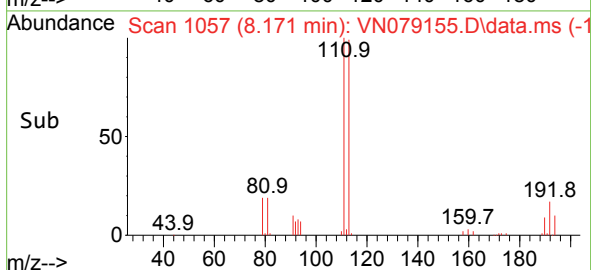
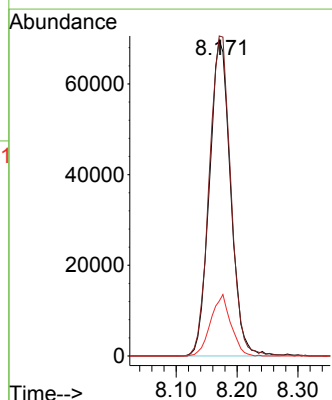
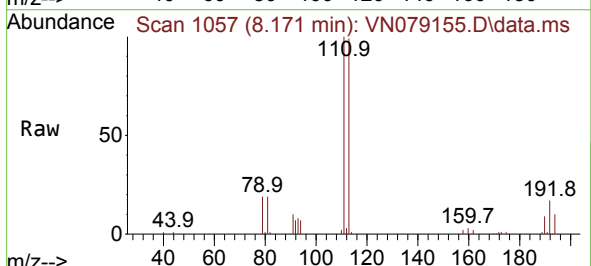
Tgt Ion:113 Resp: 168062

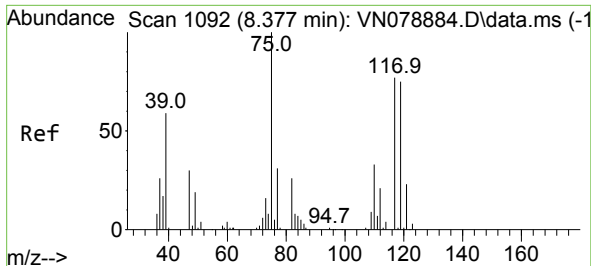
Ion Ratio Lower Upper

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111 103.1 82.6 123.8

192 18.6 12.7 19.1

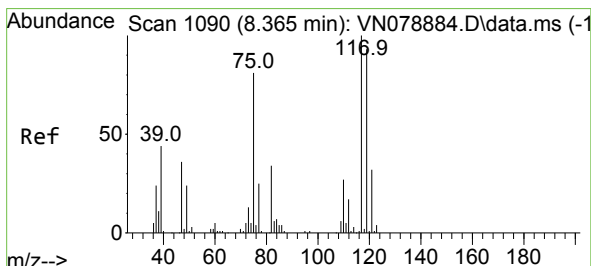
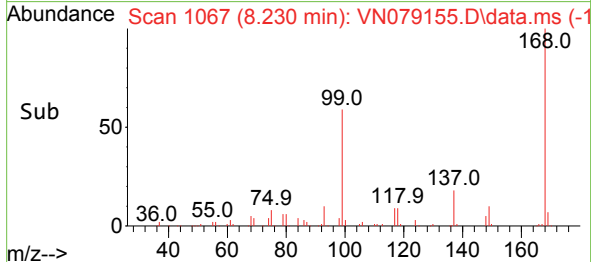
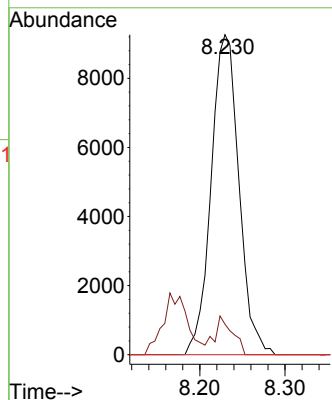
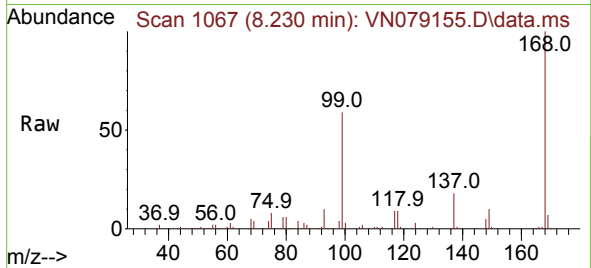




#36  
1,1-Dichloropropene  
Concen: 4.308 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.147 min  
Lab File: VN079155.D  
Acq: 02 Sep 2023 19:59

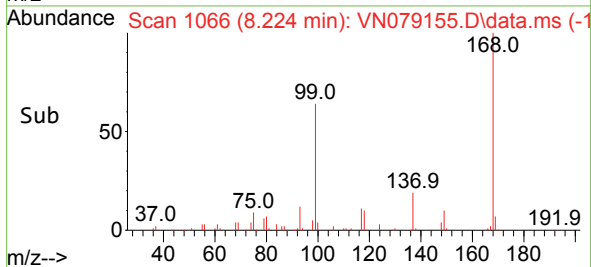
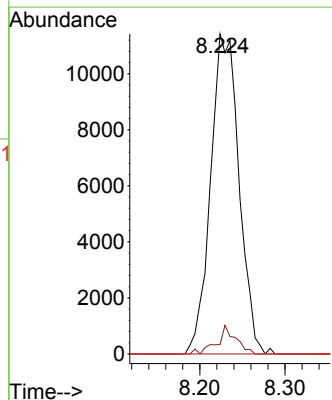
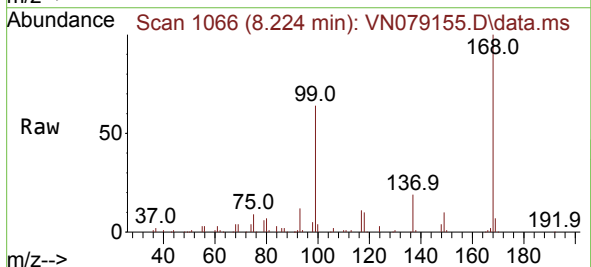
Instrument :  
MSVOA\_N  
ClientSampleId :  
830

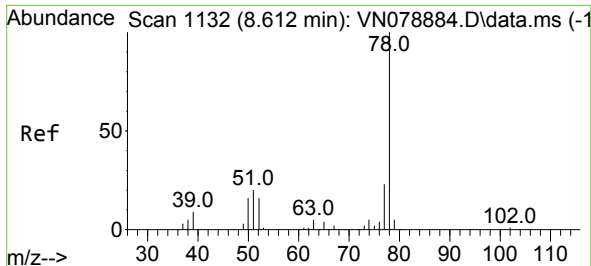
Tgt Ion: 75 Resp: 21021  
Ion Ratio Lower Upper  
75 100  
110 7.7 19.1 57.3#  
77 0.0 25.0 37.4#



#38  
Carbon Tetrachloride  
Concen: 5.411 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.147 min  
Lab File: VN079155.D  
Acq: 02 Sep 2023 19:59

Tgt Ion: 117 Resp: 26455  
Ion Ratio Lower Upper  
117 100  
119 2.9 77.3 115.9#  
121 0.0 23.3 34.9#

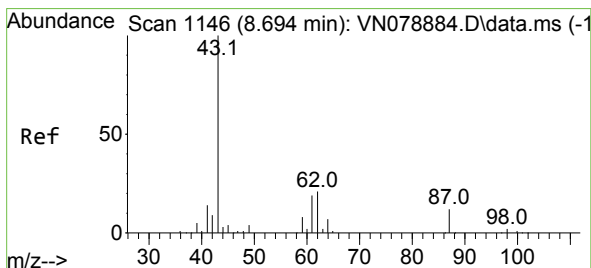
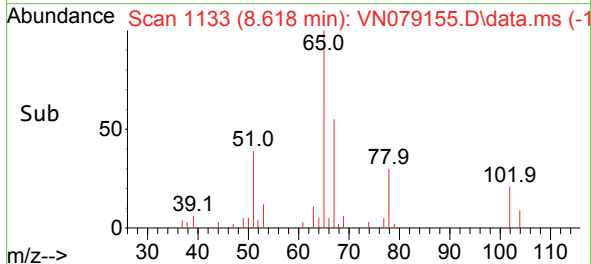
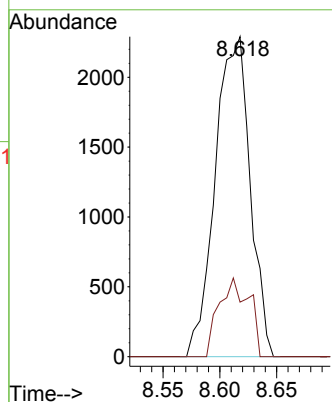
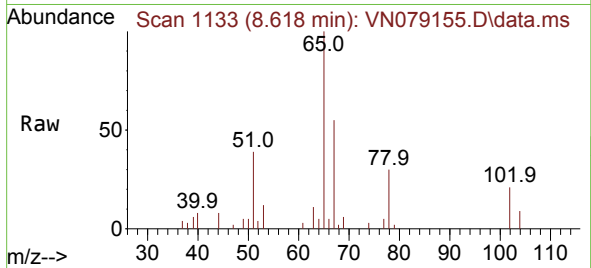




#40  
Benzene  
Concen: 0.339 ug/l  
RT: 8.618 min Scan# 1132  
Delta R.T. 0.006 min  
Lab File: VN079155.D  
Acq: 02 Sep 2023 19:59

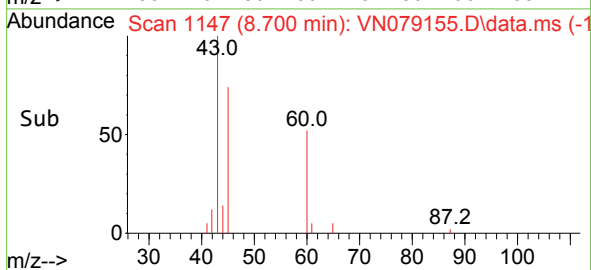
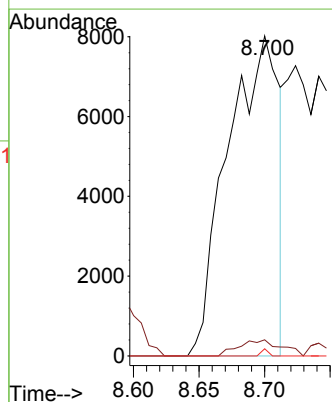
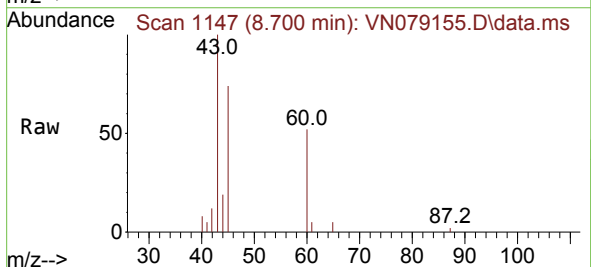
Instrument :  
MSVOA\_N  
ClientSampleId :  
830

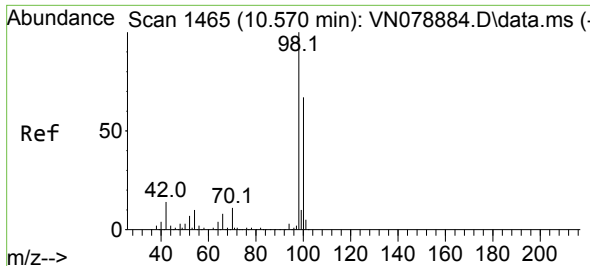
Tgt Ion: 78 Resp: 4886  
Ion Ratio Lower Upper  
78 100  
77 17.1 19.0 28.6#



#43  
Isopropyl Acetate  
Concen: 2.256 ug/l  
RT: 8.700 min Scan# 1147  
Delta R.T. 0.006 min  
Lab File: VN079155.D  
Acq: 02 Sep 2023 19:59

Tgt Ion: 43 Resp: 21766  
Ion Ratio Lower Upper  
43 100  
61 4.2 24.7 37.1#  
87 0.3 14.6 21.8#

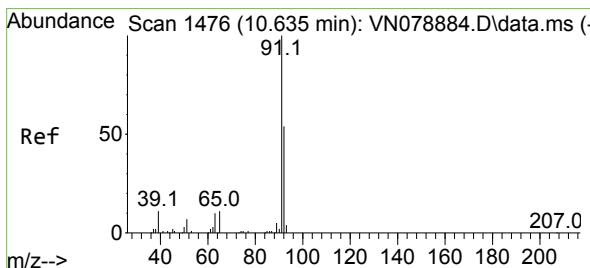
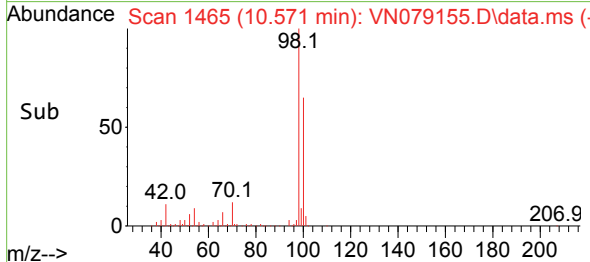
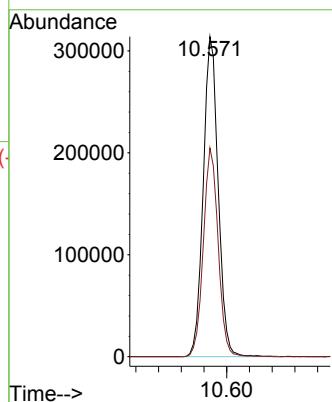
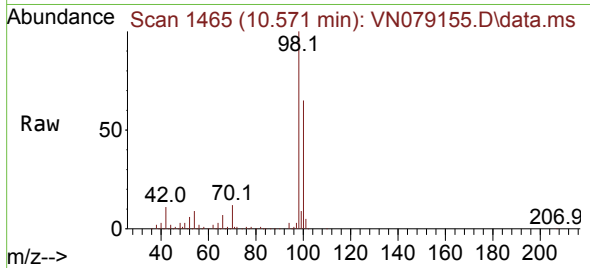




#50  
Toluene-d8  
Concen: 47.442 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. -0.000 min  
Lab File: VN079155.D  
Acq: 02 Sep 2023 19:59

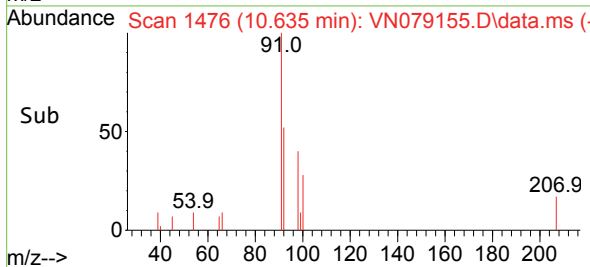
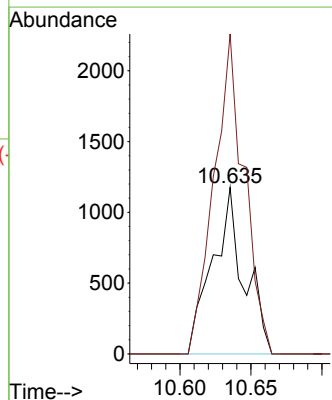
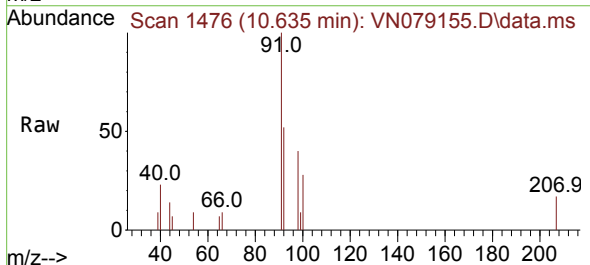
Instrument :  
MSVOA\_N  
ClientSampleId :  
830

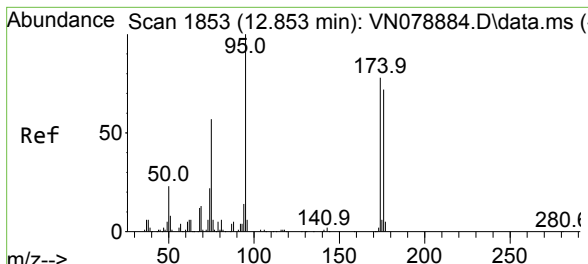
Tgt Ion: 98 Resp: 571362  
Ion Ratio Lower Upper  
98 100  
100 64.6 52.0 78.0



#52  
Toluene  
Concen: 0.205 ug/l  
RT: 10.635 min Scan# 1476  
Delta R.T. 0.000 min  
Lab File: VN079155.D  
Acq: 02 Sep 2023 19:59

Tgt Ion: 92 Resp: 1815  
Ion Ratio Lower Upper  
92 100  
91 184.8 137.4 206.0

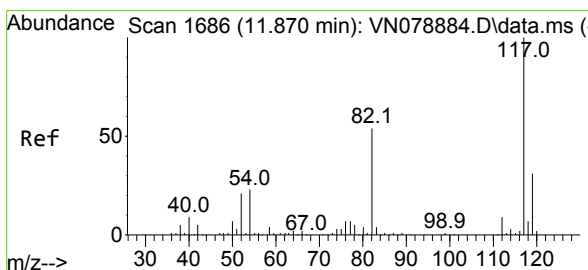
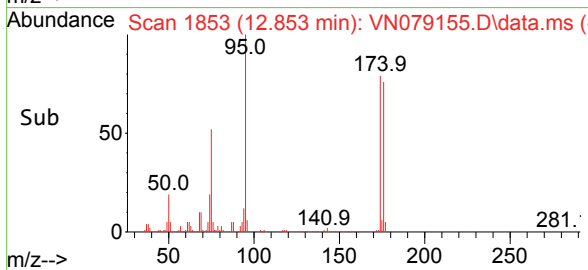
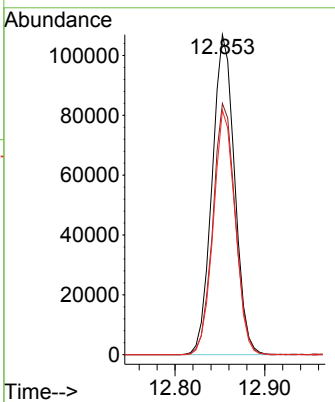
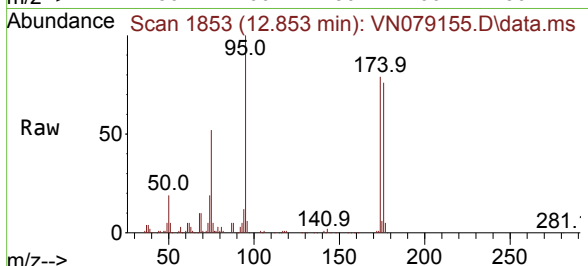




#62  
 4-Bromofluorobenzene  
 Concen: 47.271 ug/l  
 RT: 12.853 min Scan# 1853  
 Delta R.T. -0.000 min  
 Lab File: VN079155.D  
 Acq: 02 Sep 2023 19:59

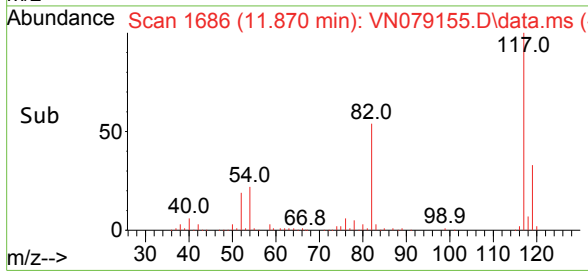
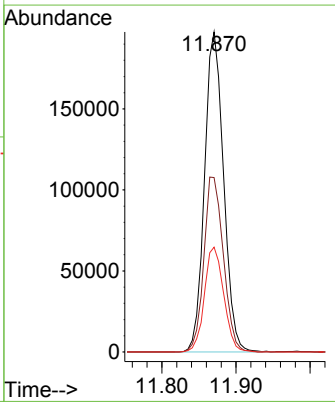
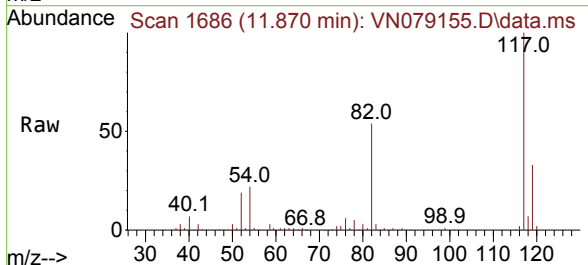
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 830

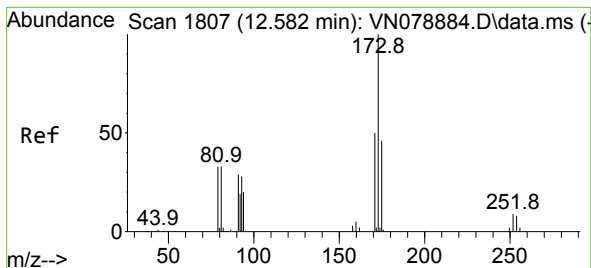
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 186085 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 174      | 78.2  | 0.0   | 143.8  |
| 176      | 74.2  | 0.0   | 135.8  |



#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 11.870 min Scan# 1686  
 Delta R.T. -0.001 min  
 Lab File: VN079155.D  
 Acq: 02 Sep 2023 19:59

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 352592 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 54.5  | 44.0  | 66.0   |
| 119      | 32.7  | 25.6  | 38.4   |





#71

Bromoform

Concen: 0.588 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.271 min

Lab File: VN079155.D

Acq: 02 Sep 2023 19:59

Instrument :

MSVOA\_N

ClientSampleId :

830

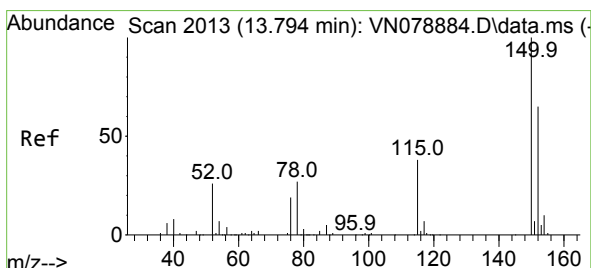
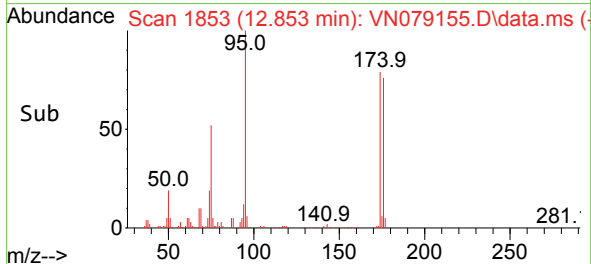
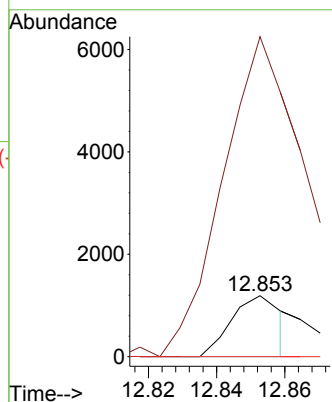
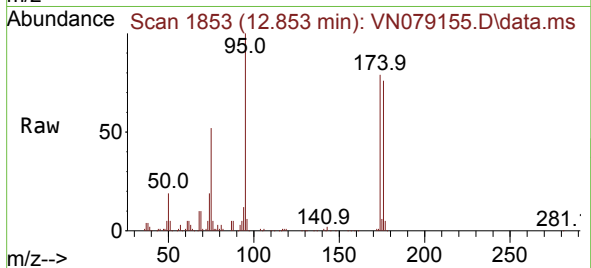
Tgt Ion:173 Resp: 1213

Ion Ratio Lower Upper

173 100

175 634.0 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: VN079155.D

Acq: 02 Sep 2023 19:59

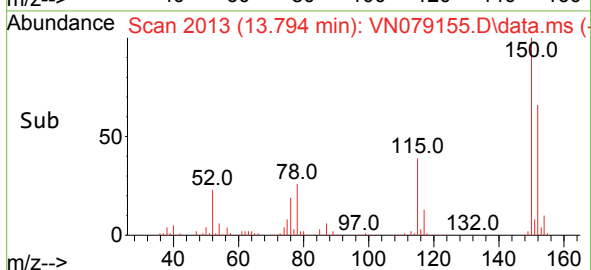
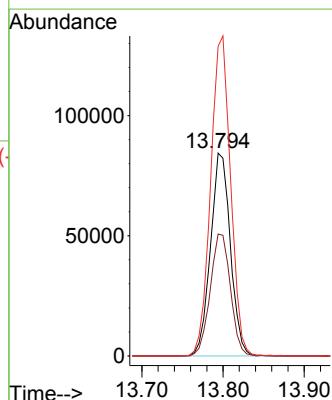
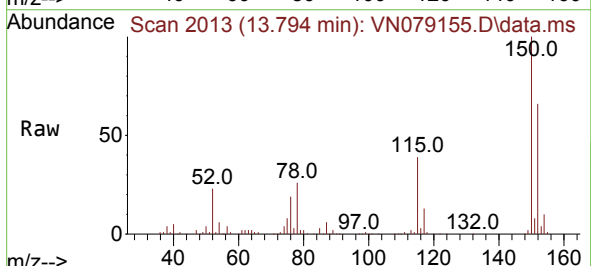
Tgt Ion:152 Resp: 143619

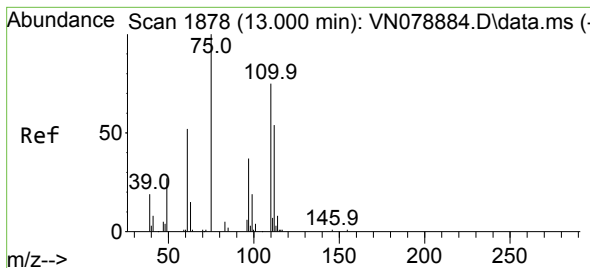
Ion Ratio Lower Upper

152 100

115 61.1 32.3 96.8

150 158.0 0.0 355.8

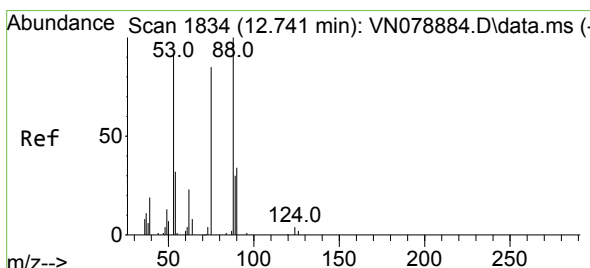
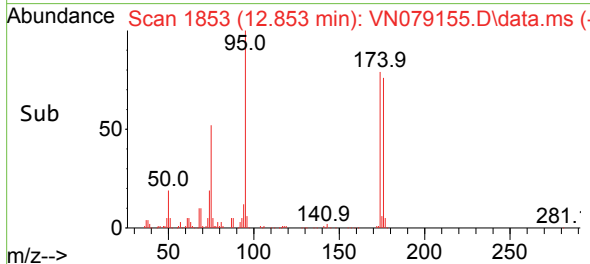
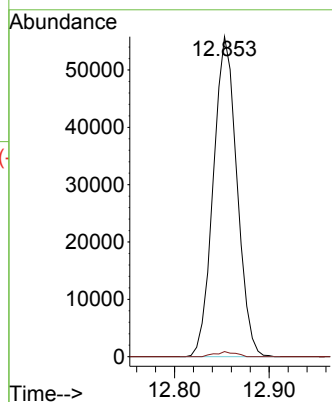
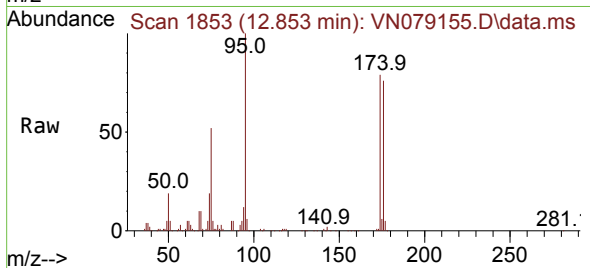




#76  
1,2,3-Trichloropropane  
Concen: 27.981 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.147 min  
Lab File: VN079155.D  
Acq: 02 Sep 2023 19:59

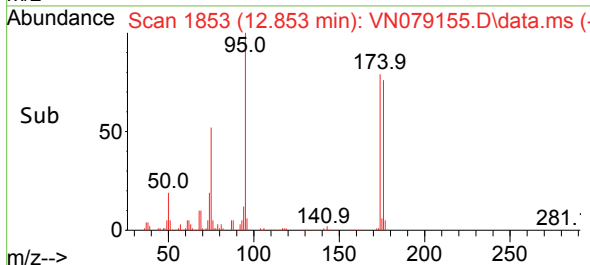
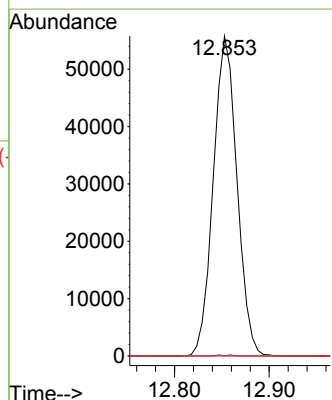
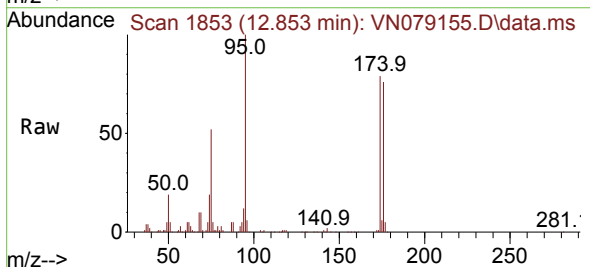
Instrument :  
MSVOA\_N  
ClientSampleId :  
830

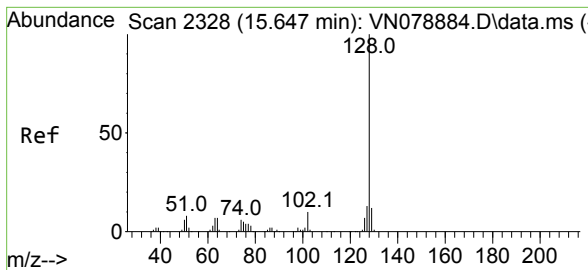
Tgt Ion: 75 Resp: 96828  
Ion Ratio Lower Upper  
75 100  
77 1.4 84.5 253.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 71.479 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.112 min  
Lab File: VN079155.D  
Acq: 02 Sep 2023 19:59

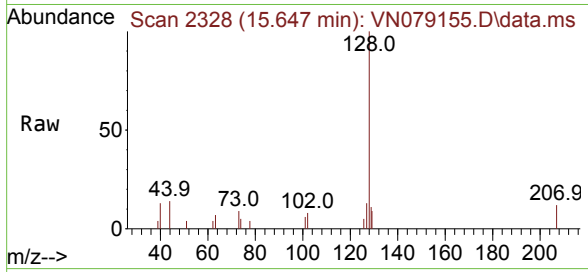
Tgt Ion: 75 Resp: 96828  
Ion Ratio Lower Upper  
75 100  
53 0.1 67.4 101.2#  
89 0.0 38.8 58.2#





#95  
Naphthalene  
Concen: 3.662 ug/l  
RT: 15.647 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN079155.D  
Acq: 02 Sep 2023 19:59

Instrument :  
MSVOA\_N  
ClientSampleId :  
830



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 7587  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 13.0  | 10.0  | 15.0  |
| 129      | 10.1  | 8.7   | 13.1  |

