Kafka test setup (kafkaDelay3Full)

Technology: Kafka Streams

Producer Delay (Send next message): 3ms

Full data set (qty): 8760

Number of tests performed: 2

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

Kafka median values

End Subtract Start: 0.08499999999999999

Kafka standard deviation

End Subtract Start: 0.022649407957745445

Lower Bound: 0.017772837770599292

UpperBound: 0.15366928551707196

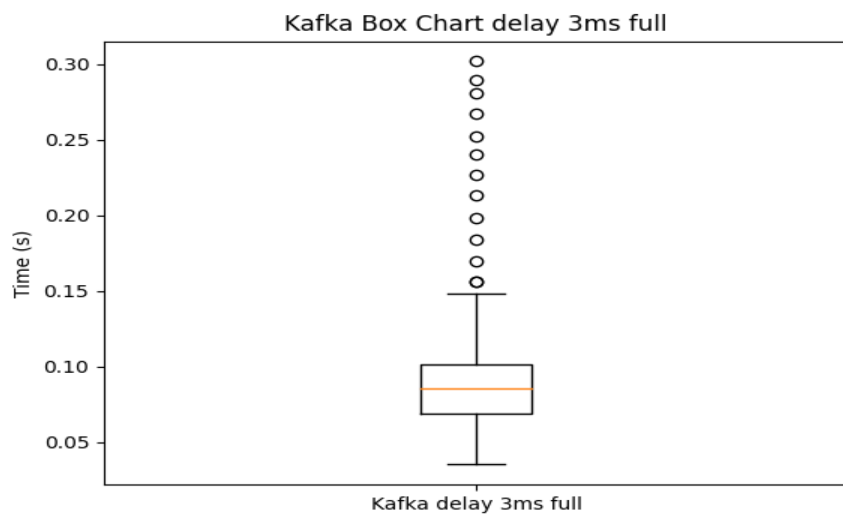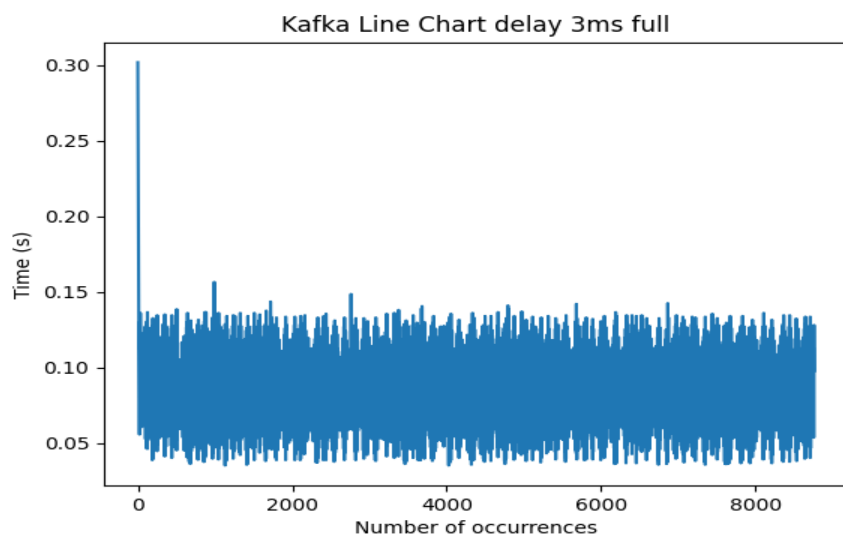Number of data in the std range: 8747

Number of data outside the std range: 13
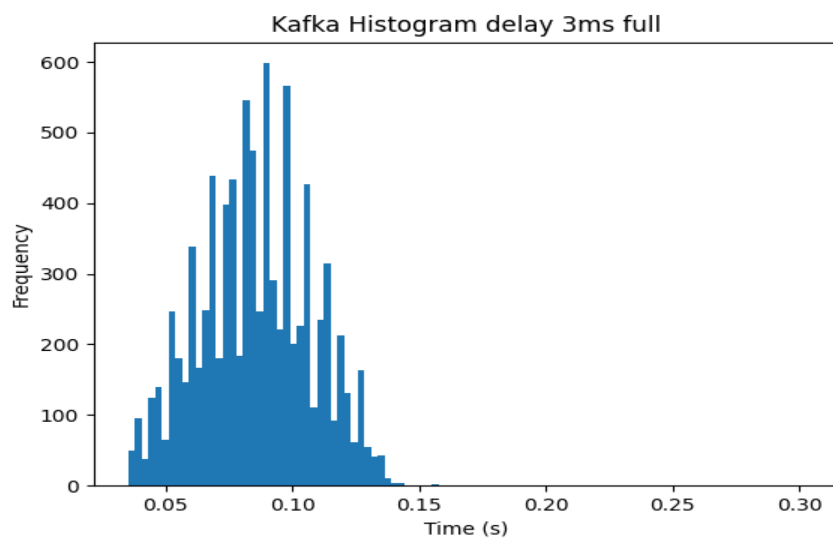
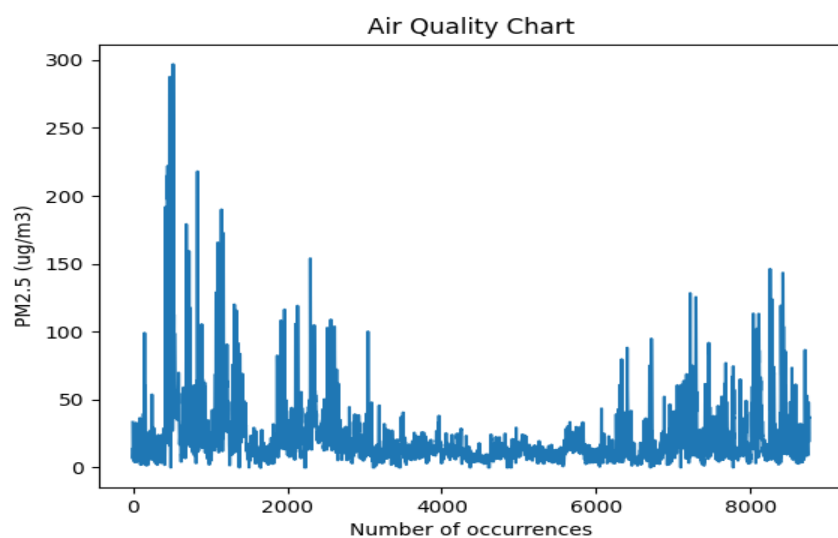## Kafka interquartile range

End Subtract Start: 0.032

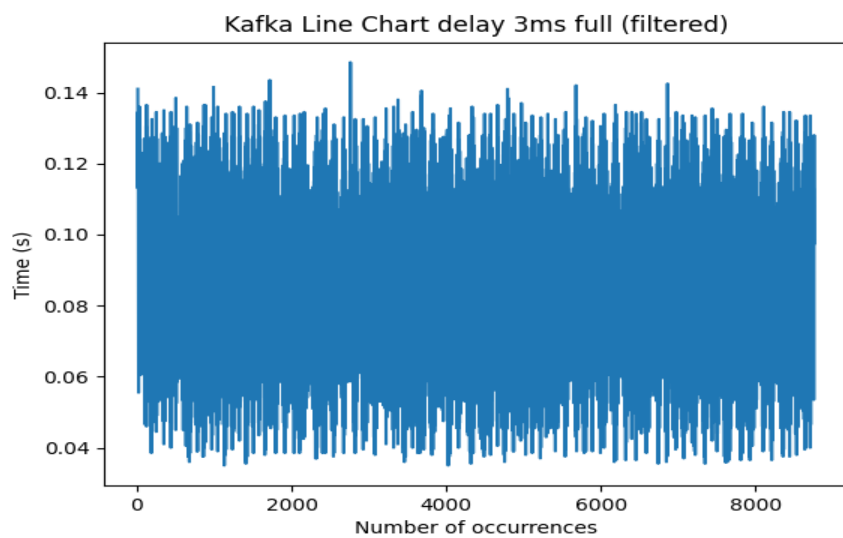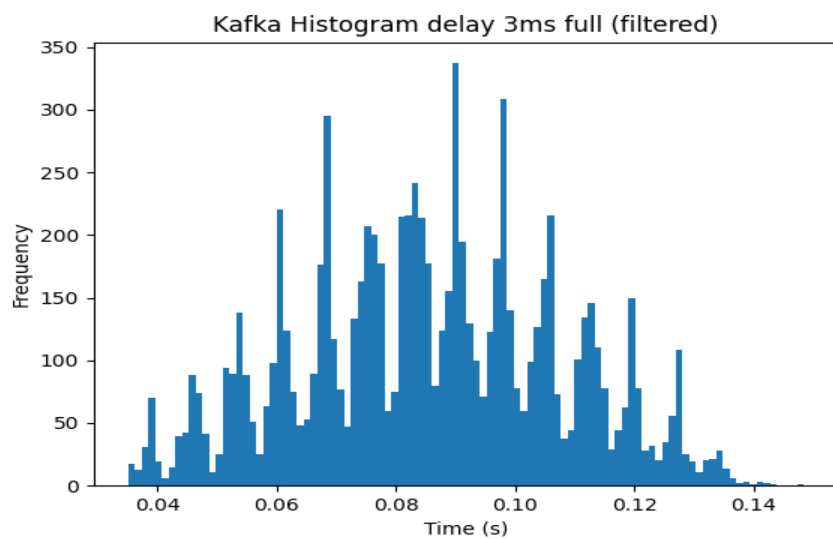## Kafka mean

End Subtract Start: 0.08572106164383562

Average time for each sample

0.08846518264840185   0.08297694063926941

Kafka Histogram delay 3ms full

Kafka Line Chart delay 3ms full

Kafka Box Chart delay 3ms full

Kafka Histogram delay 3ms full (filtered)

Kafka Line Chart delay 3ms full (filtered)

Air Quality Chart

Kafka test setup (kafkaDelay0Full)

Technology: Kafka Streams

Producer Delay (Send next message): 0ms

Full data set (qty): 8760

Number of tests performed: 2

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

Kafka median values

End Subtract Start: 2.24575

Kafka standard deviation

End Subtract Start: 0.7804437484225683

Lower Bound: -0.09671258088414314

Upper Bound: 4.585949909651266

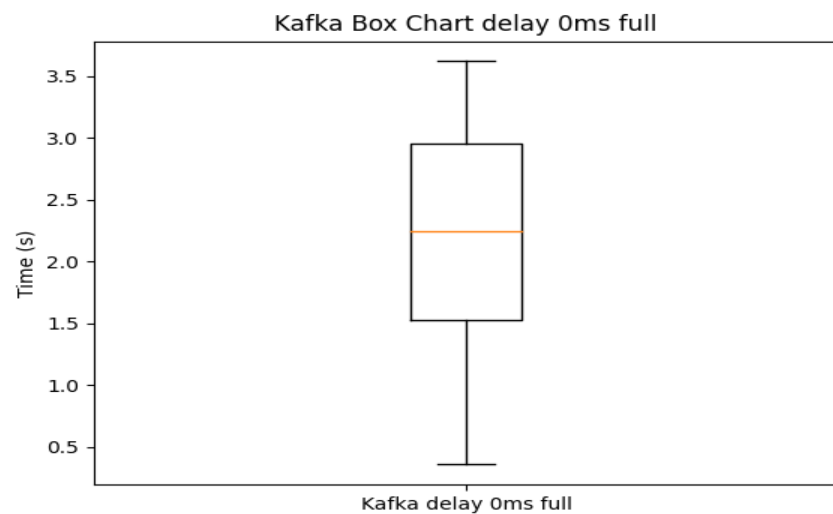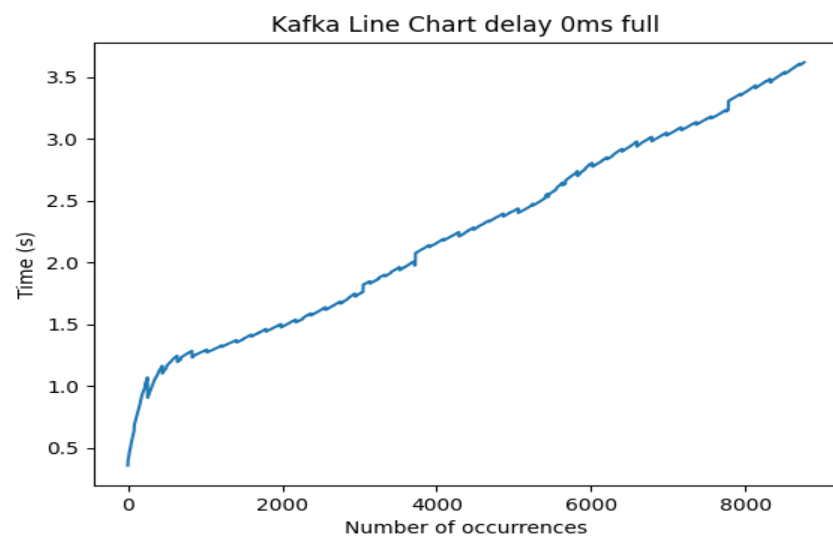Number of data in the std range: 8760

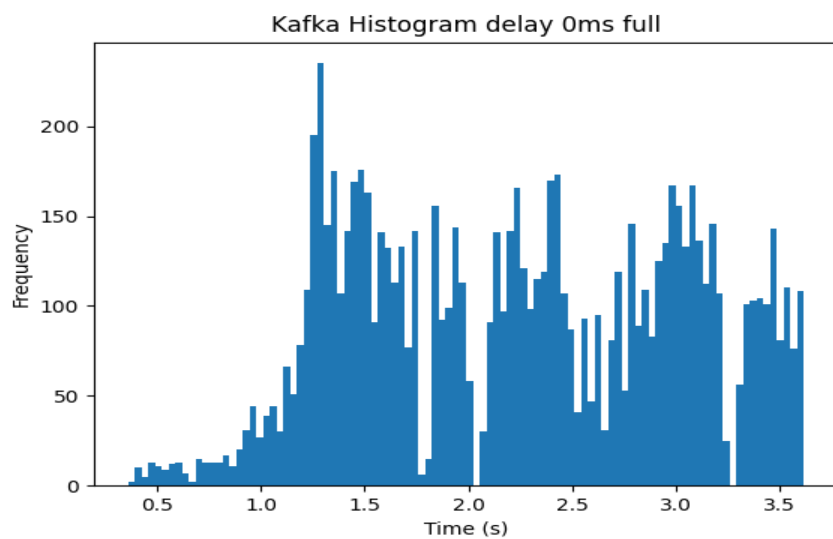Number of data outside the std range: 0

Kafka interquartile range
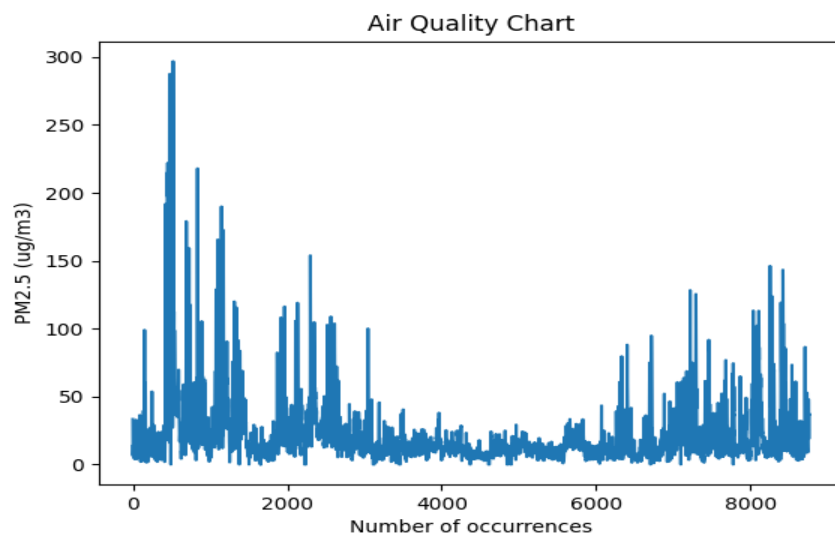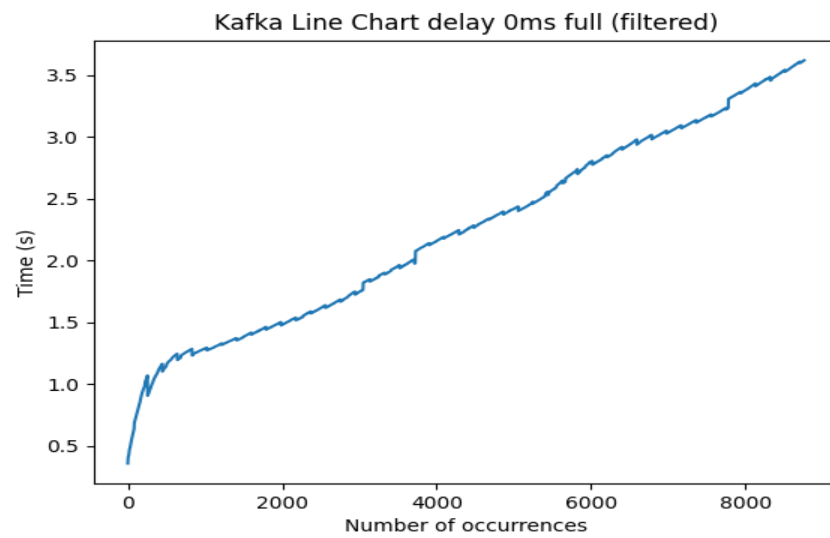
End Subtract Start: 1.423125

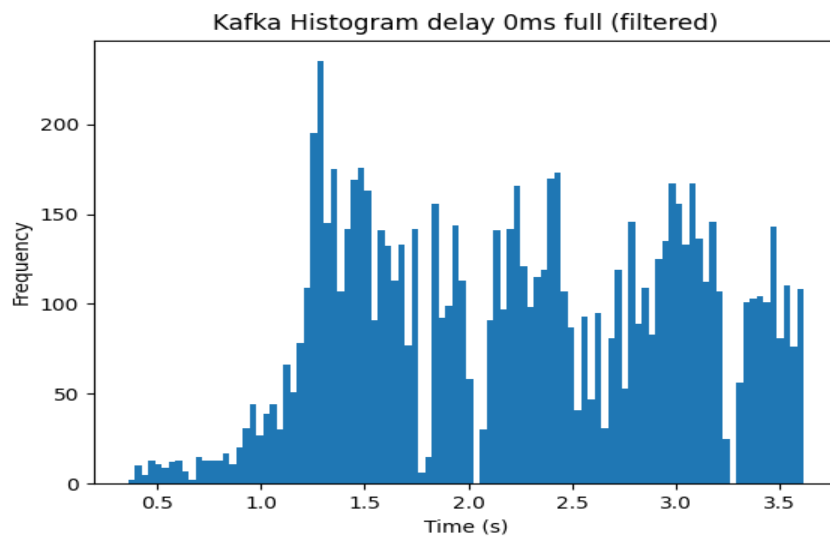## Kafka mean

End Subtract Start: 2.2446186643835615

Average time for each sample

2.5296270547945205   1.9596102739726025

Kafka Histogram delay 0ms full

Kafka Line Chart delay 0ms full

Kafka Box Chart delay 0ms full

Kafka Histogram delay 0ms full (filtered)

Kafka Line Chart delay 0ms full (filtered)

Air Quality Chart

Kafka test setup (kafkaDelay0Half)

Technology: Kafka Streams

Producer Delay (Send next message): 0ms

Full data set (qty): 4380

Number of tests performed: 2

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

Kafka median values

End Subtract Start: 1.6597499999999998

Kafka standard deviation

End Subtract Start: 0.7826695166111854

Lower Bound: -0.36809873248195846

Upper Bound: 4.327918367185155

Number of data in the std range: 4380
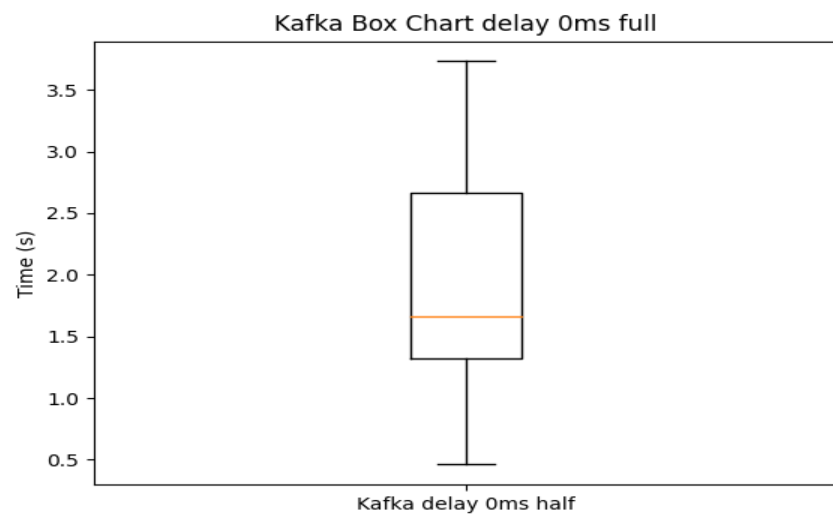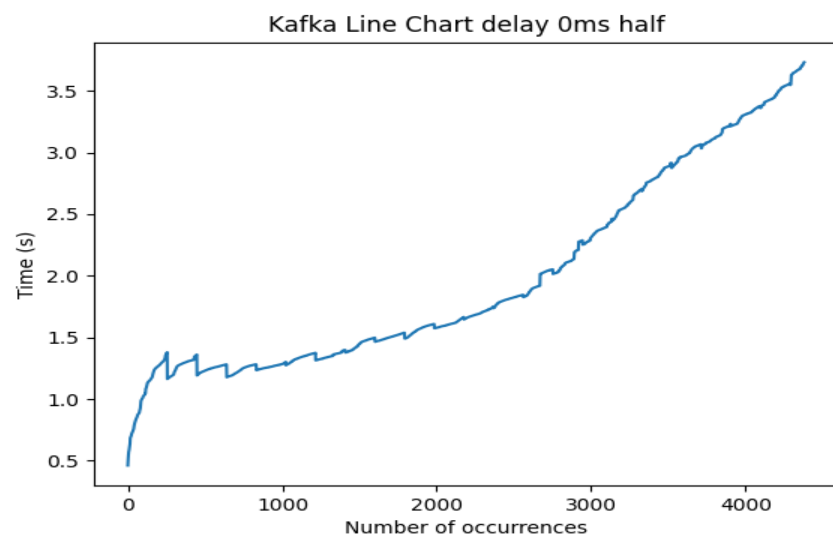
Number of data outside the std range: 0
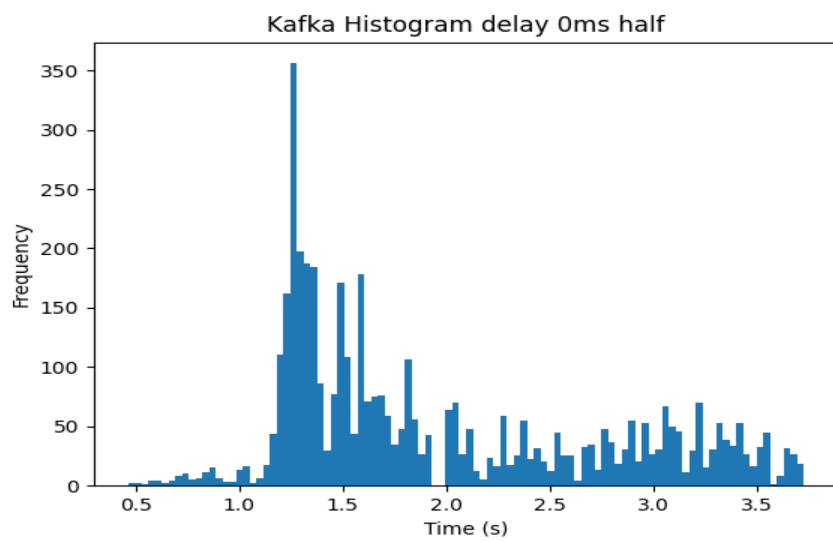
Kafka interquartile range
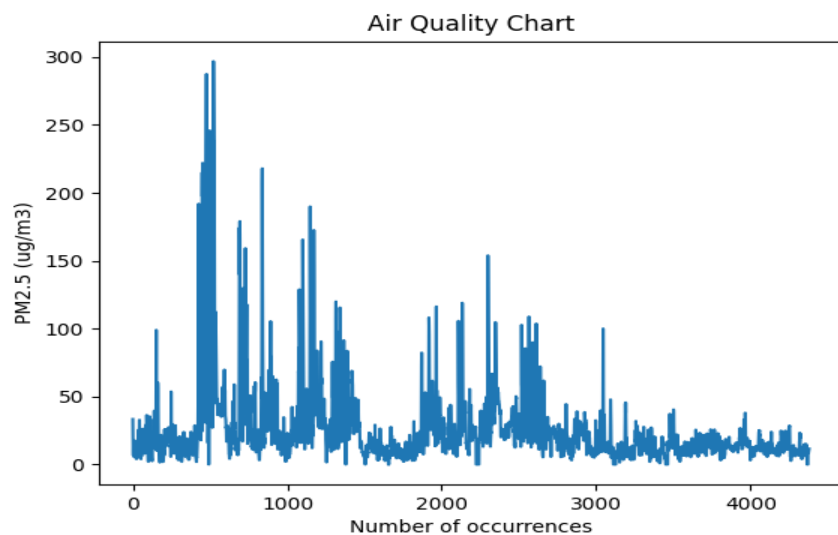
End Subtract Start: 1.3387499999999999

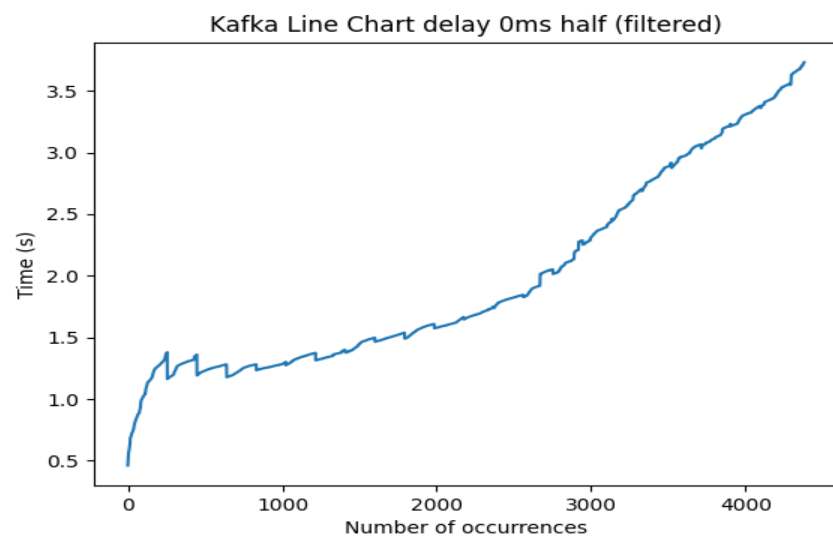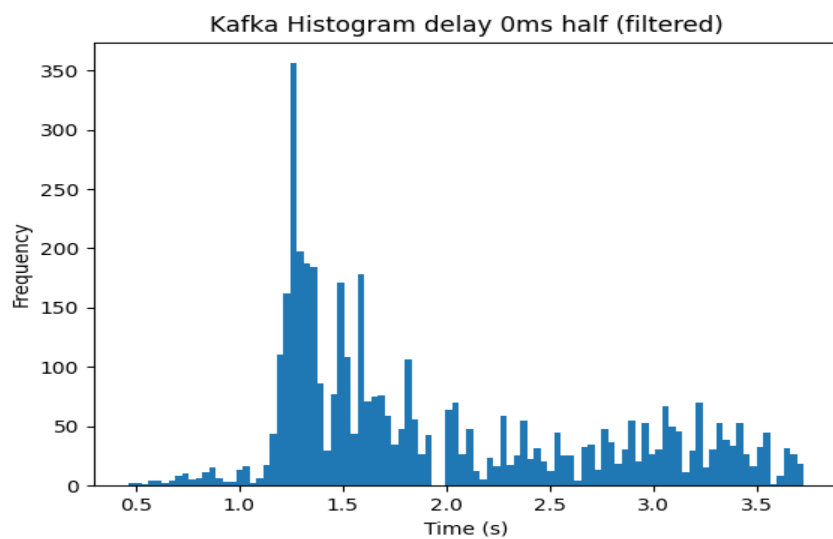## Kafka mean

End Subtract Start: 1.979909817351598

Average time for each sample

2.8113625570776257   1.148457077625571

Kafka Histogram delay 0ms half

Kafka Line Chart delay 0ms half

Kafka Box Chart delay 0ms full

Kafka delay 0ms half

Kafka Histogram delay 0ms half (filtered)

Kafka Line Chart delay 0ms half (filtered)

Air Quality Chart

Spark test setup (sparkDelay3Full)

Technology: Spark Structured Streaming

Producer Delay (Send next message): 3ms

Full data set (qty): 8760

Number of tests performed: 2

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

Spark median values

End Subtract Start: 1.0554999999999999

Spark standard deviation

End Subtract Start: 0.44638984110162677

Lower Bound: -0.21093025389848763

Upper Bound: 2.4674087927112733

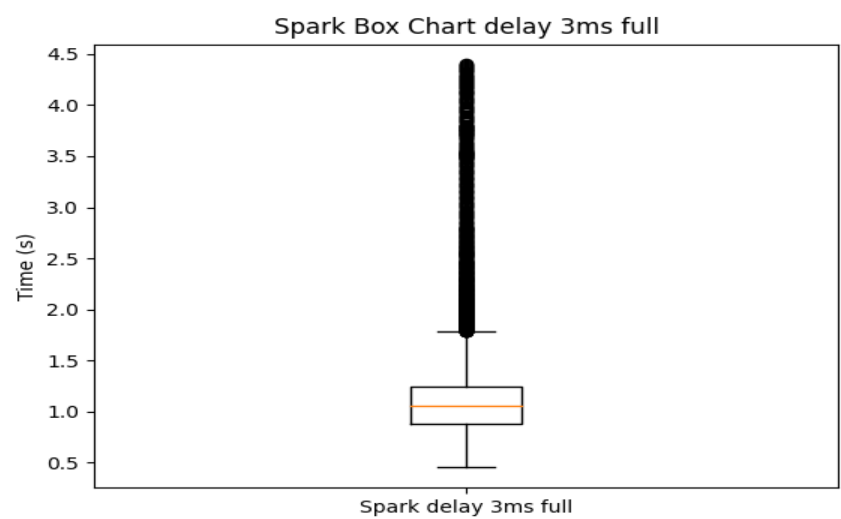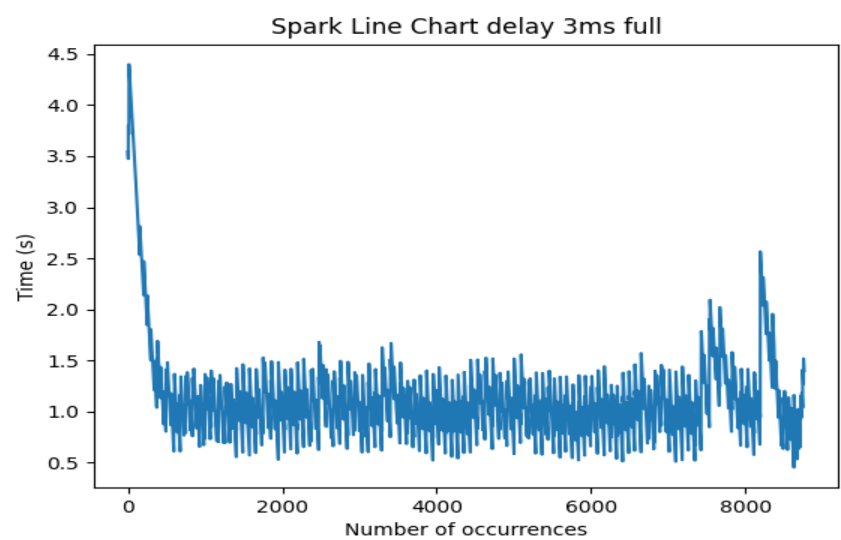Number of data in the std range: 8570

Number of data outside the std range: 190
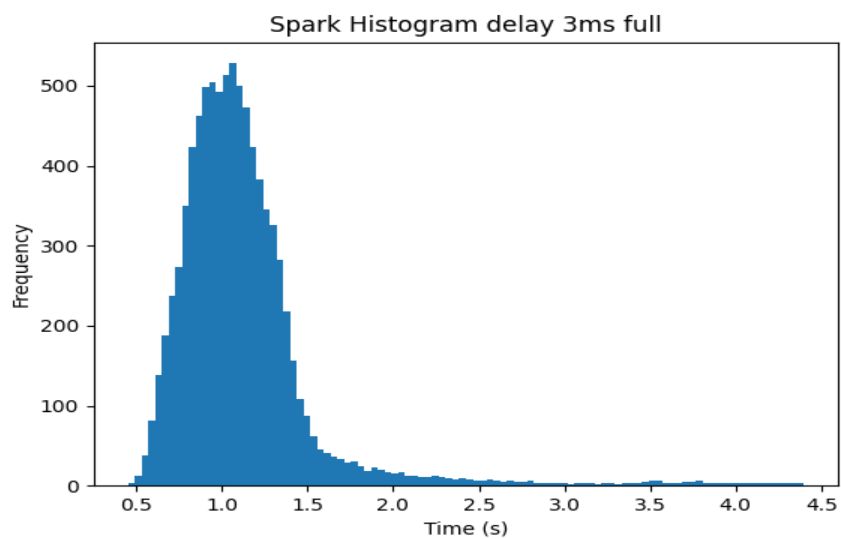
Spark interquartile range

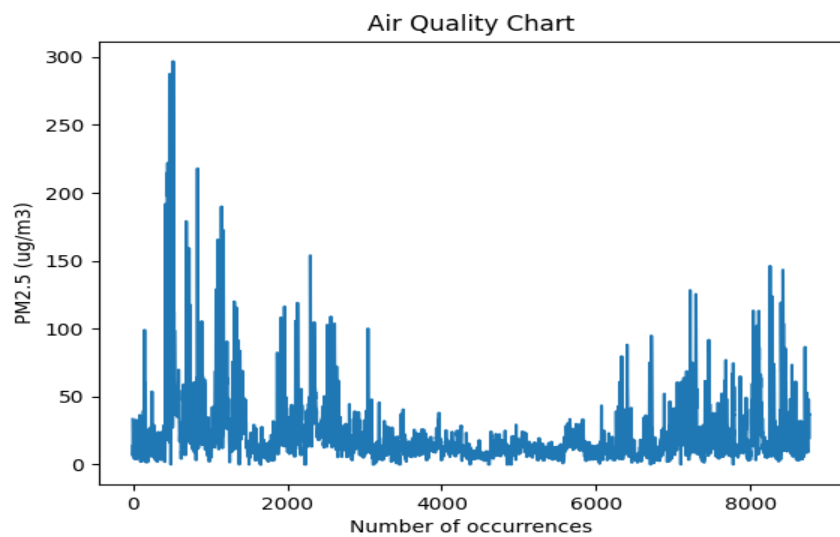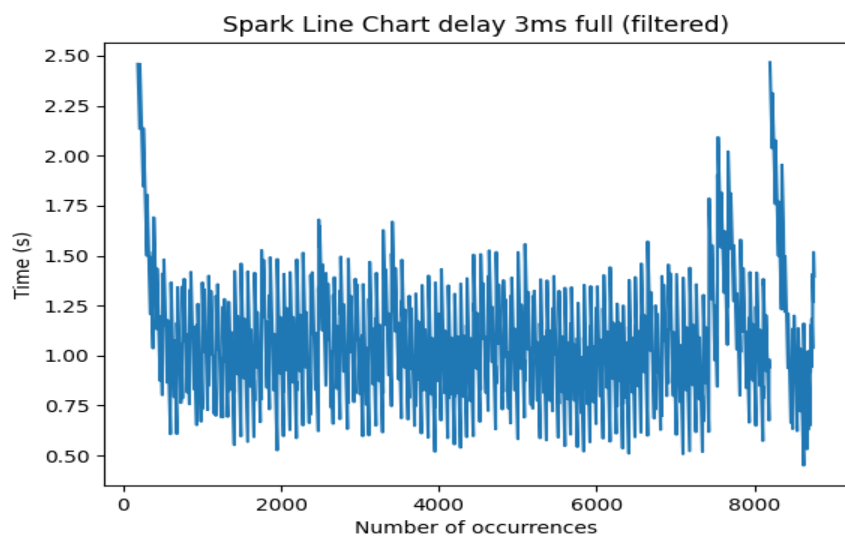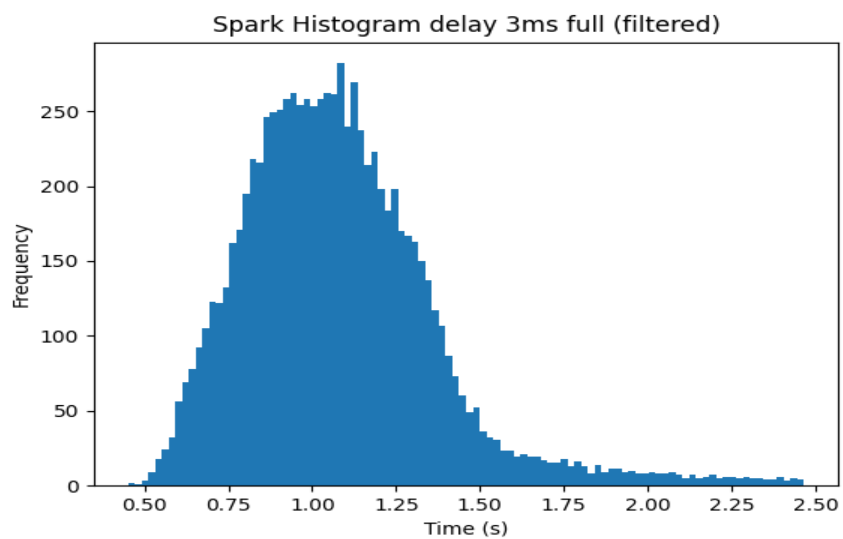End Subtract Start: 0.3601249999999999

Spark mean

End Subtract Start: 1.1282392694063927

Average time for each sample

1.555434589041096   0.7010439497716896

Spark Histogram delay 3ms full

Spark Line Chart delay 3ms full

Spark Box Chart delay 3ms full

Spark delay 3ms full

Spark Histogram delay 3ms full (filtered)

Spark Line Chart delay 3ms full (filtered)

Air Quality Chart

Spark test setup (sparkDelay0Full)

Technology: Spark Structured Streaming

Producer Delay (Send next message): 0ms

Full data set (qty): 8760

Number of tests performed: 2

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

Spark median values

End Subtract Start: 7.427

Spark standard deviation

End Subtract Start: 0.9936356247974834

Lower Bound: 4.452366698666911

Upper Bound: 10.41418044745181

Number of data in the std range: 8748
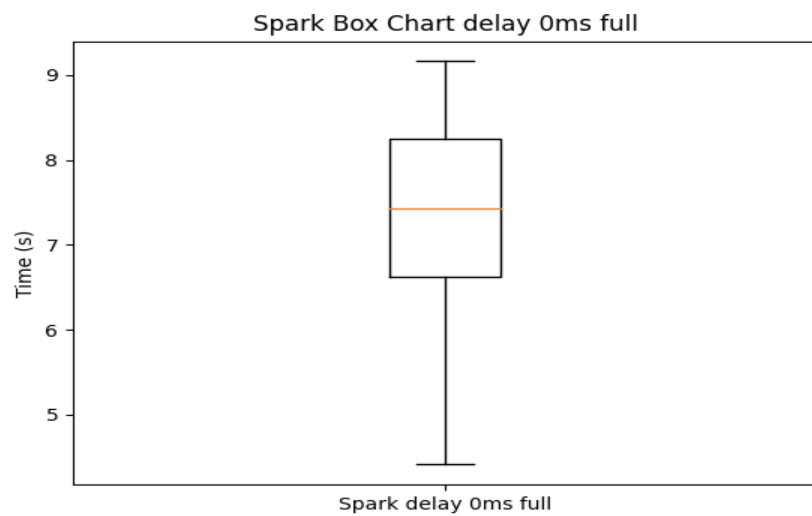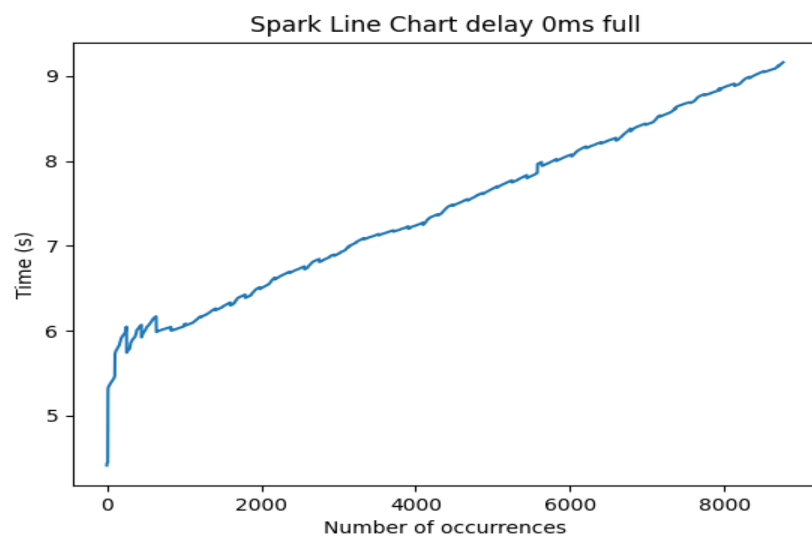
Number of data outside the std range: 12
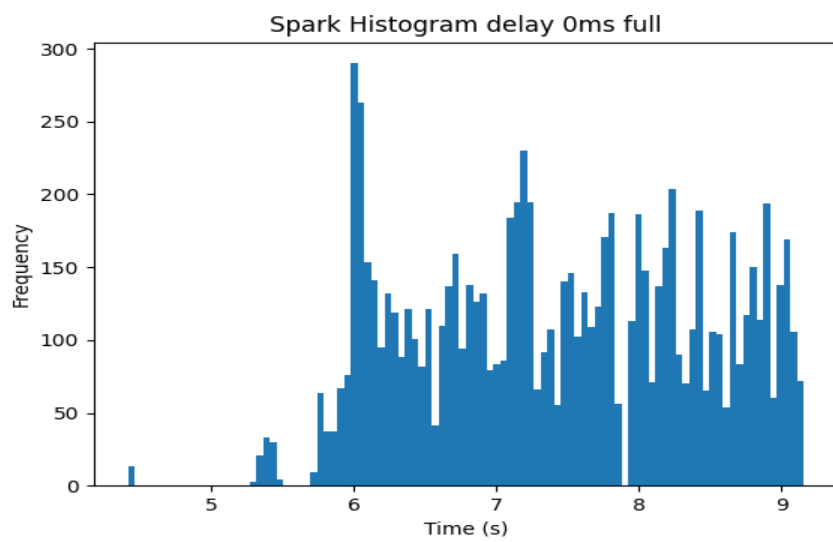
Spark interquartile range

End Subtract Start: 1.6332500000000003

Spark mean

End Subtract Start: 7.433273573059361

Average time for each sample

10.360887557077625   4.505659589041097

Spark Histogram delay 0ms full

Spark Line Chart delay 0ms full

Spark Box Chart delay 0ms full

Spark delay 0ms full

Spark Histogram delay 0ms full (filtered)

Spark Line Chart delay 0ms full (filtered)

Air Quality Chart

Spark test setup (sparkDelay0Half)

Technology: Spark Structured Streaming

Producer Delay (Send next message): 0ms

Full data set (qty): 4380

Number of tests performed: 2

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

Spark median values

End Subtract Start: 6.1602500000000004

Spark standard deviation

End Subtract Start: 0.6074777344890918

Lower Bound: 4.448846819363775

Upper Bound: 8.093713226298325

Number of data in the std range: 4355

Number of data outside the std range: 25

Spark interquartile range
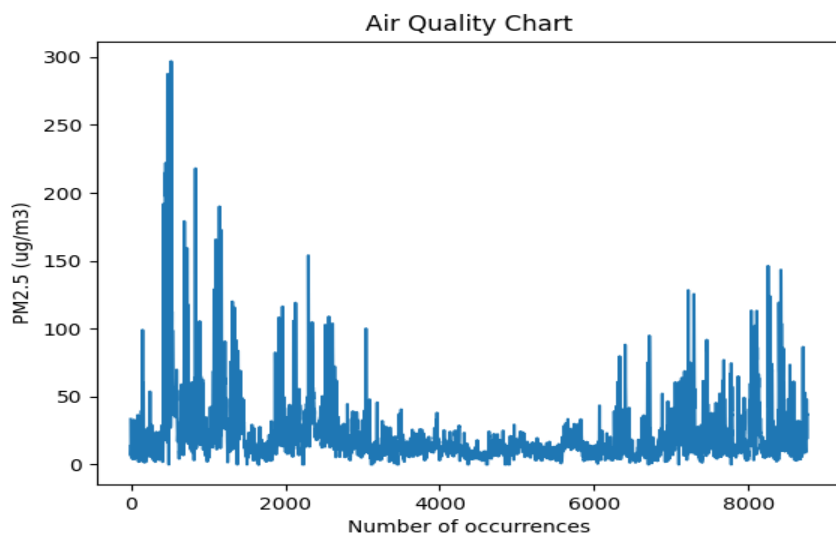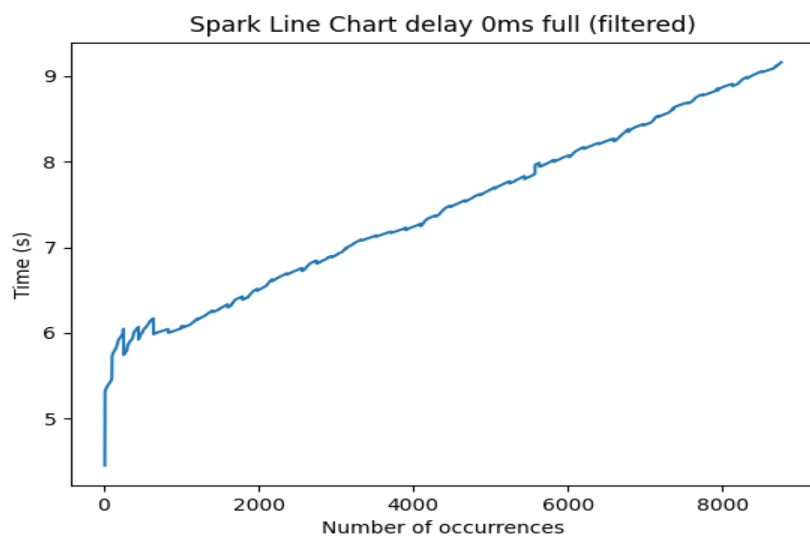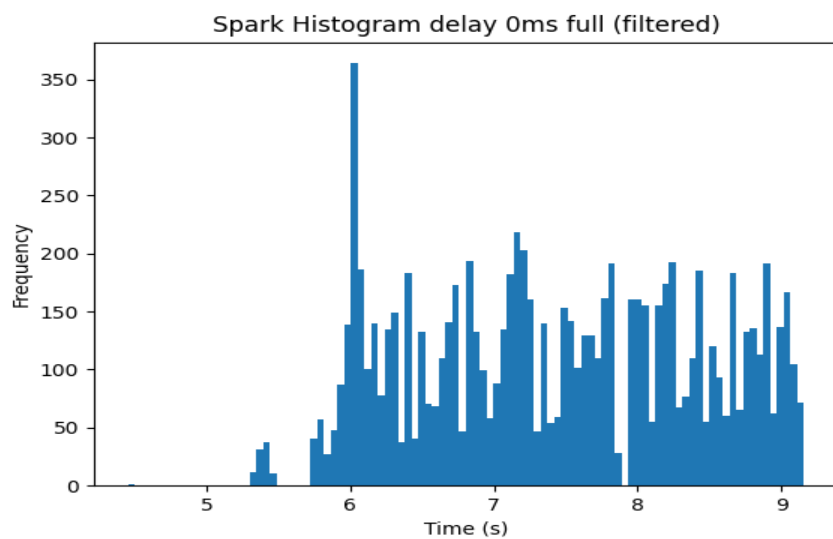
End Subtract Start: 0.9743750000000002

Spark mean

End Subtract Start: 6.27128002283105

Average time for each sample

8.790803196347033   3.7517568493150684

Spark Histogram delay 0ms half

Spark Line Chart delay 0ms half

Spark Box Chart delay 0ms half

Spark Histogram delay 0ms half (filtered)

Spark Line Chart delay 0ms half (filtered)

Air Quality Chart