

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

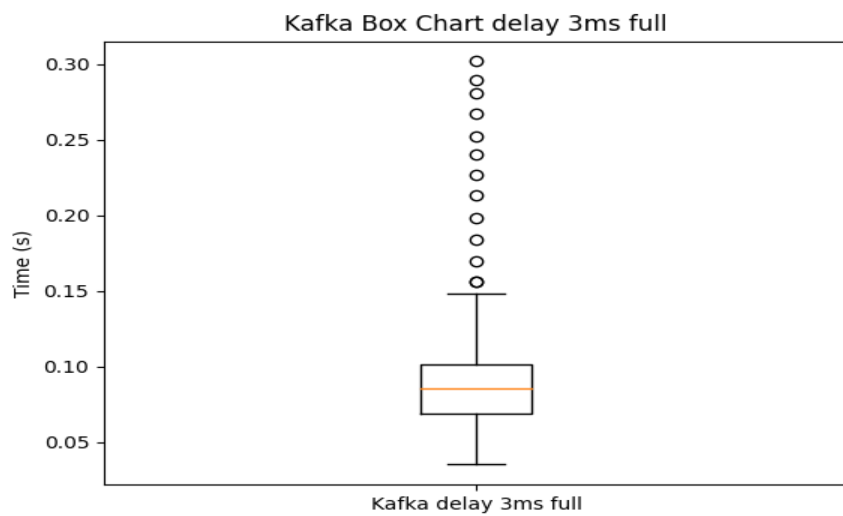
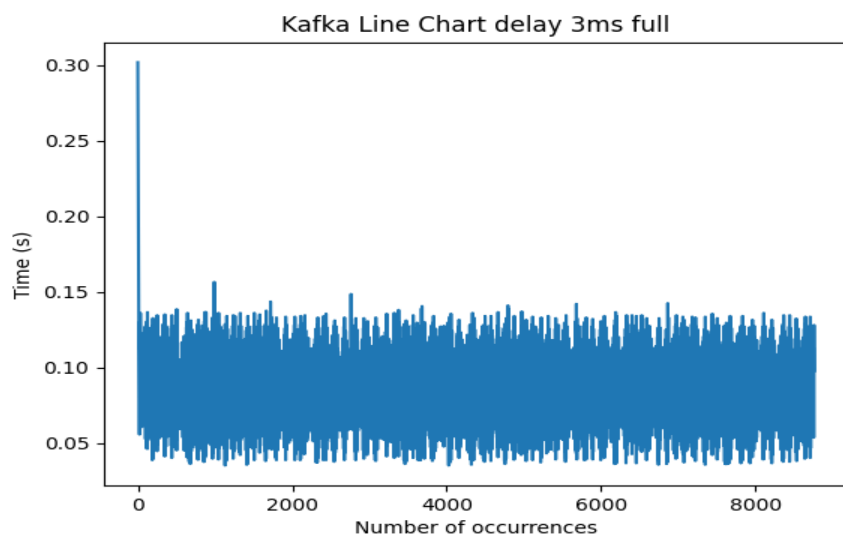
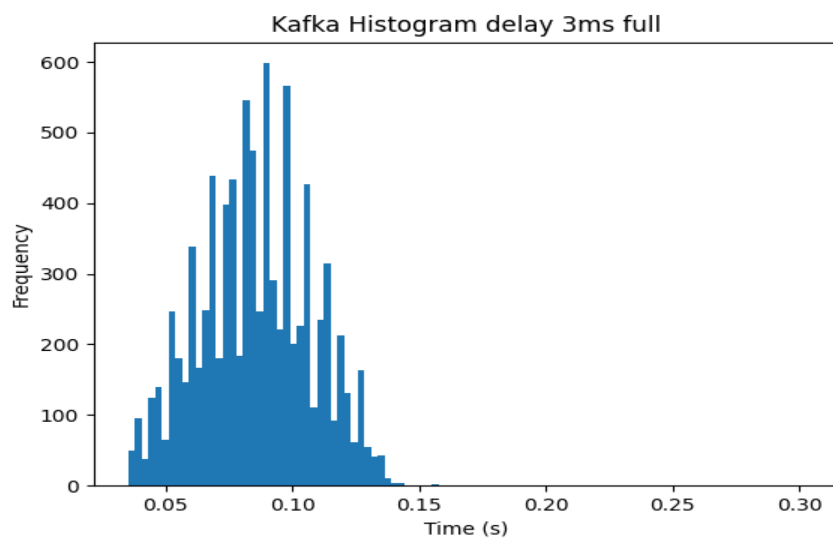
Number of data outside the std range: 13

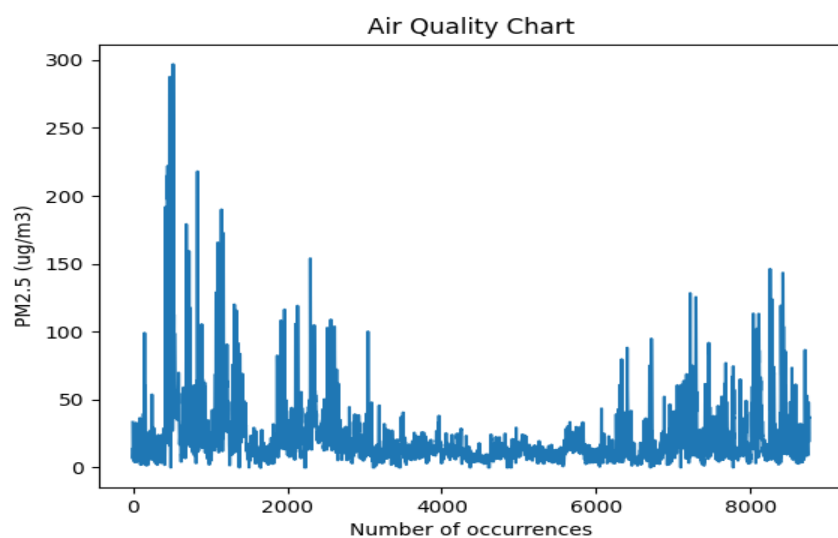
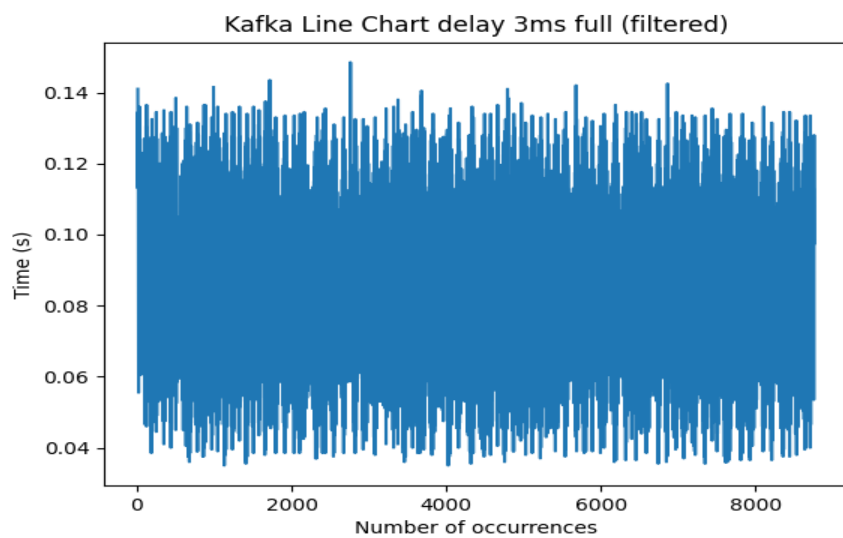
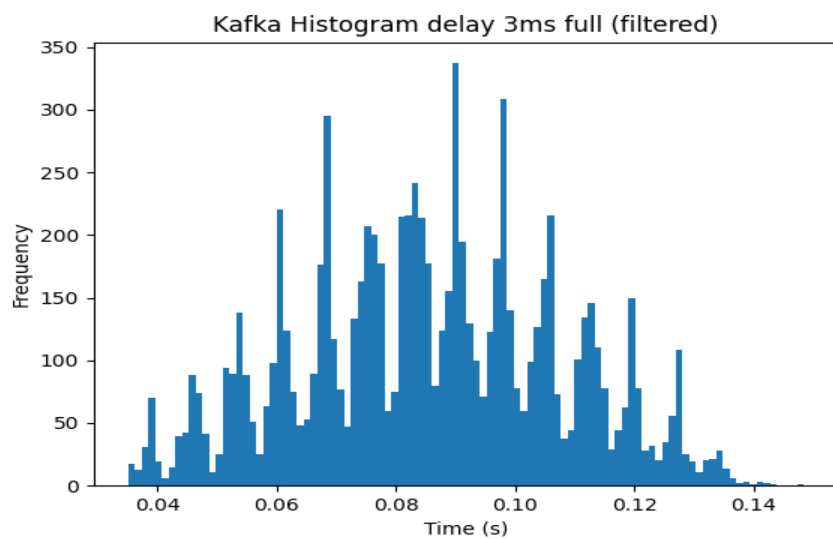
Kafka interquartile range

End Subtract Start: 0.032

Kafka mean

End Subtract Start: 0.08572106164383562





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

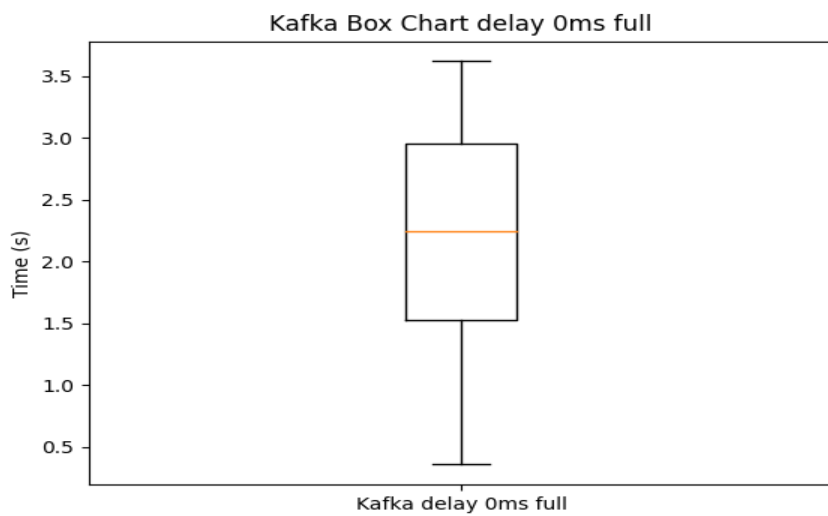
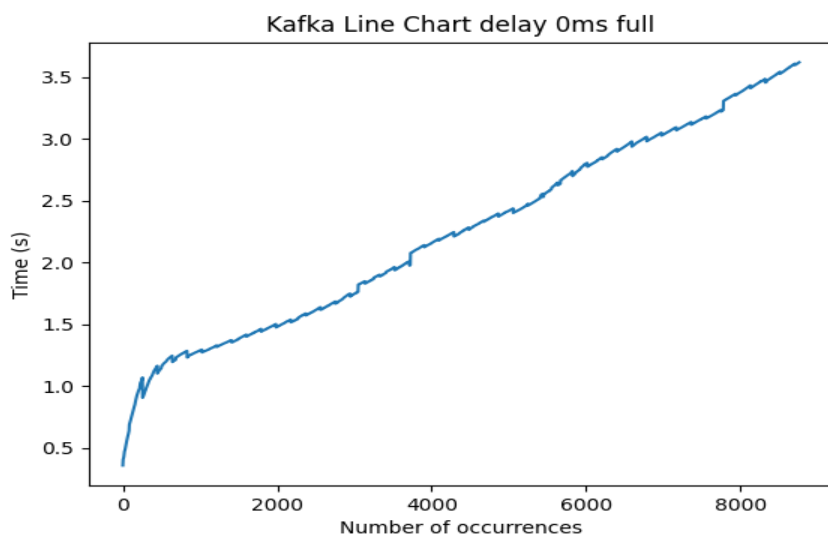
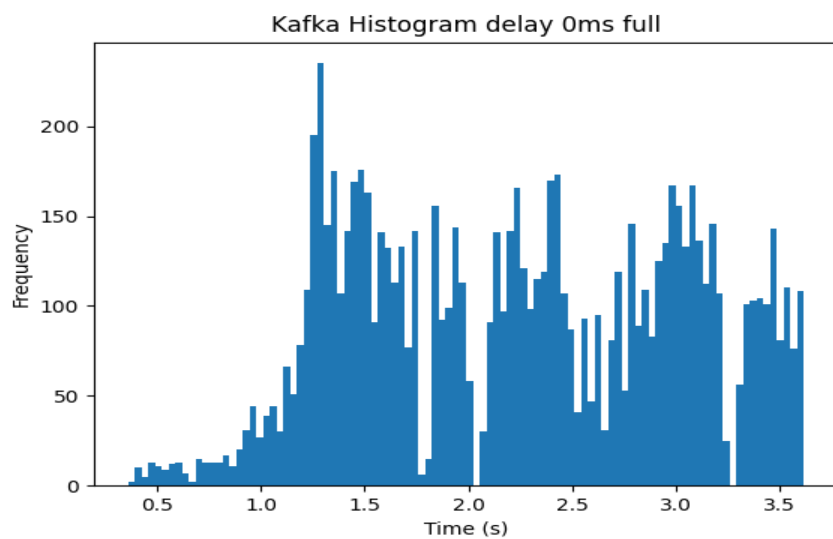
Number of data outside the std range: 0

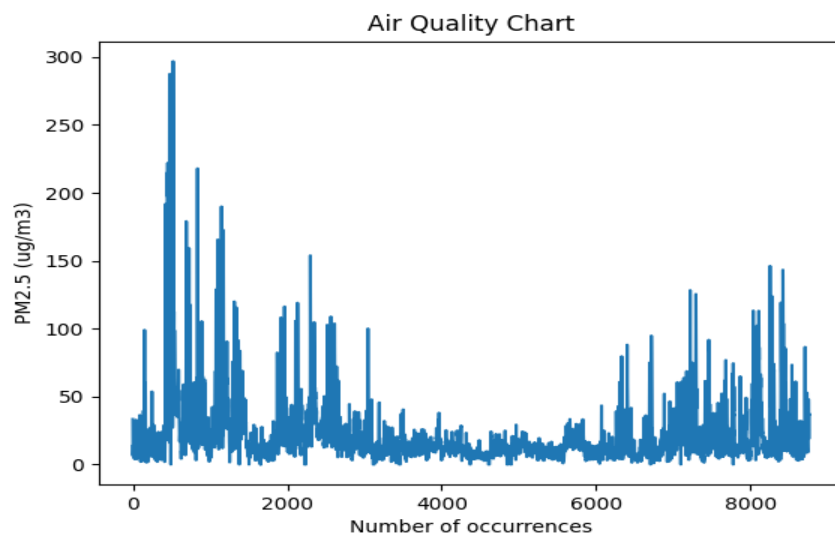
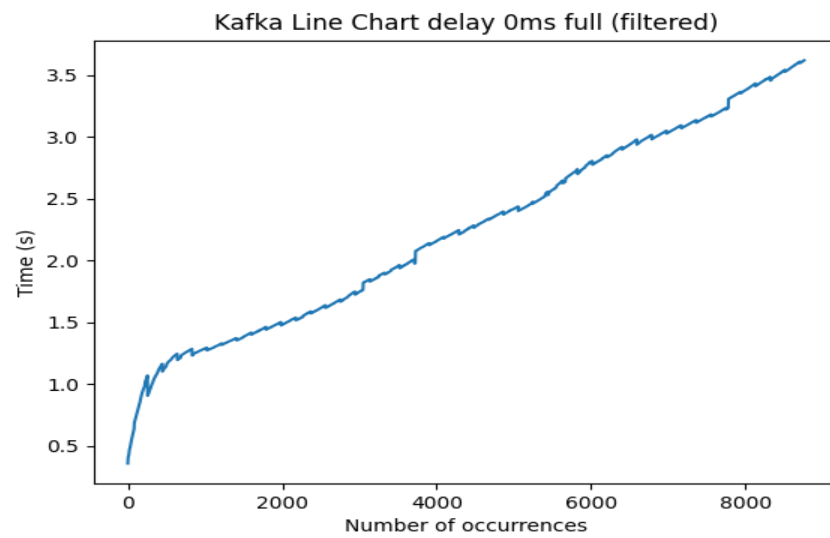
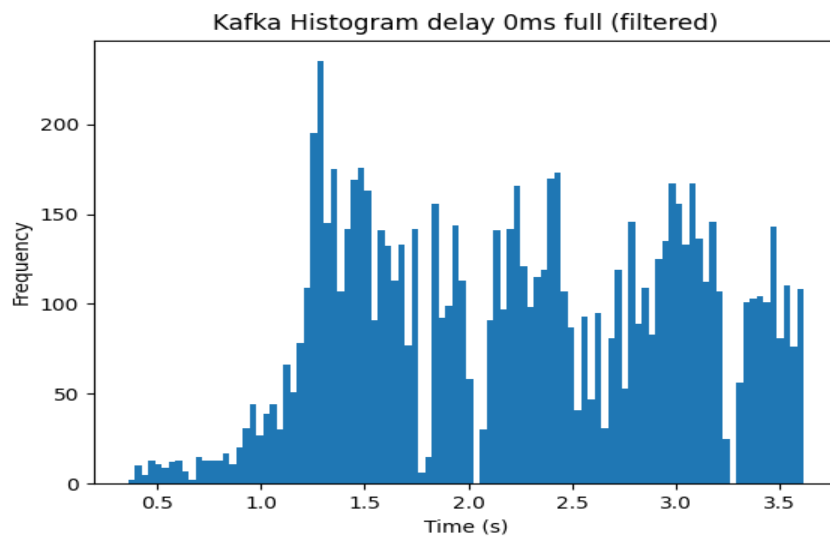
Kafka interquartile range

End Subtract Start: 1.423125

Kafka mean

End Subtract Start: 2.2446186643835615





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

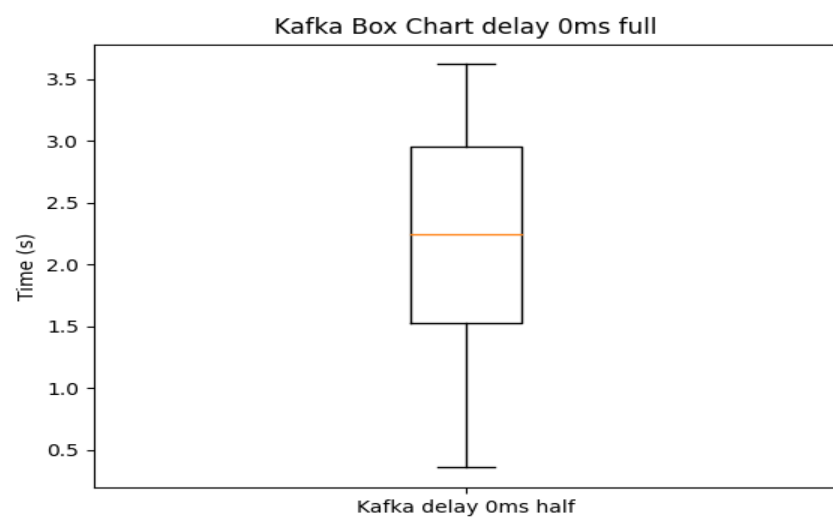
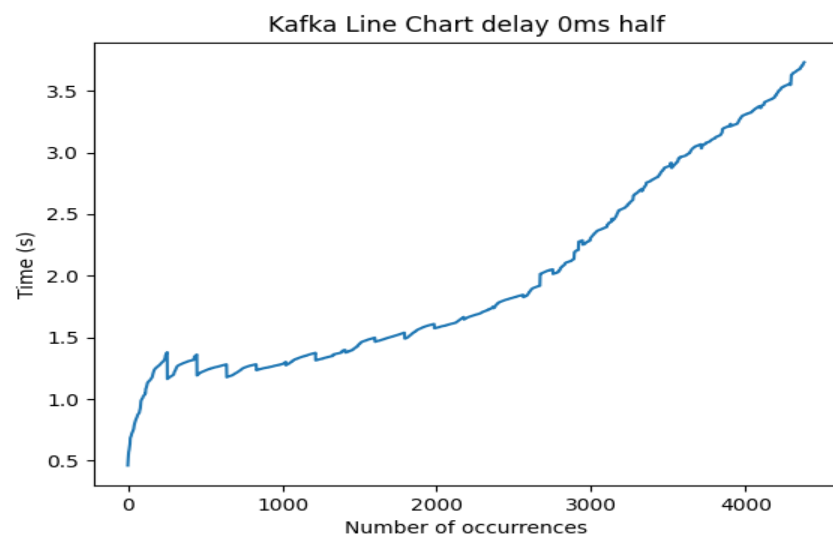
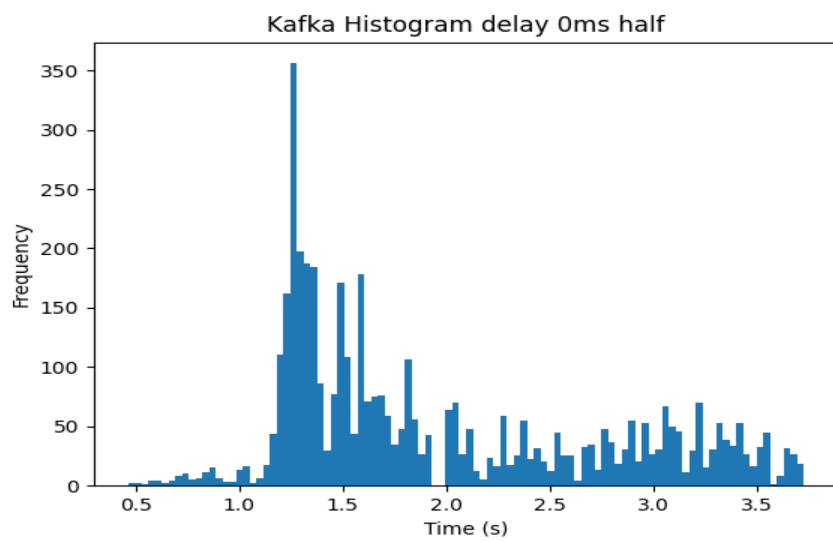
Number of data outside the std range: 0

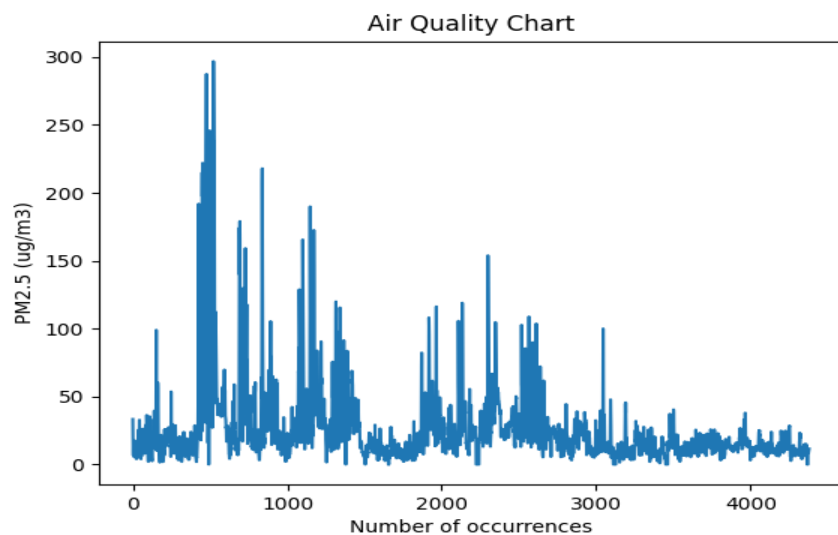
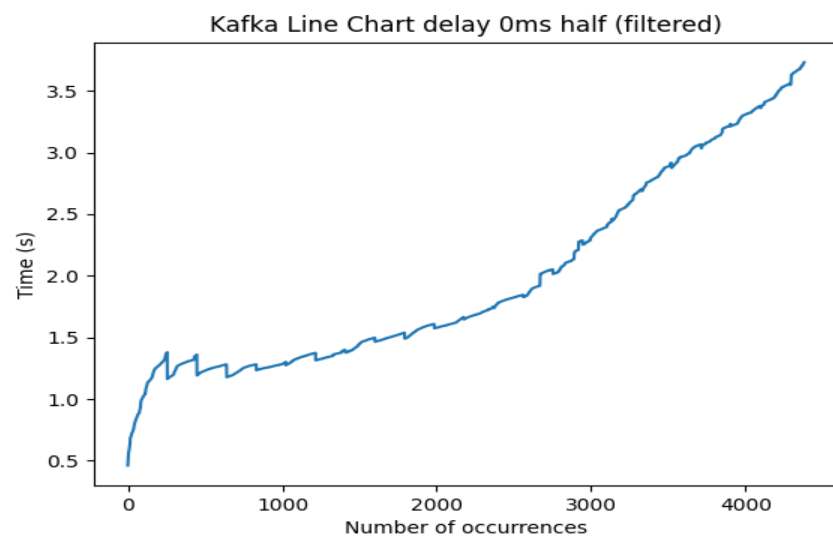
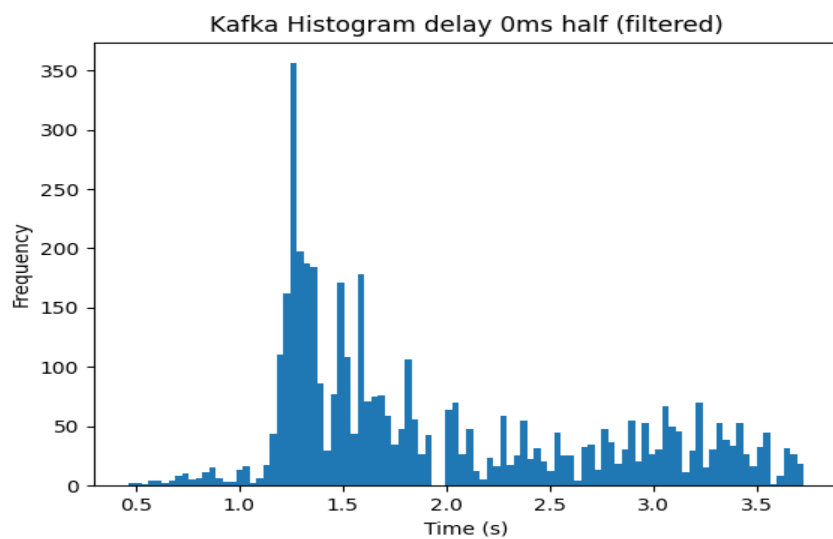
Kafka interquartile range

End Subtract Start: 1.3387499999999999

Kafka mean

End Subtract Start: 1.979909817351598





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

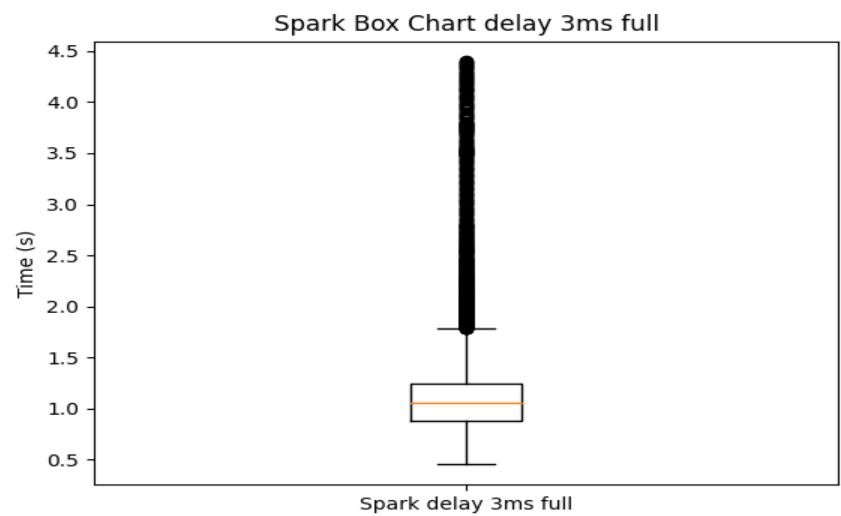
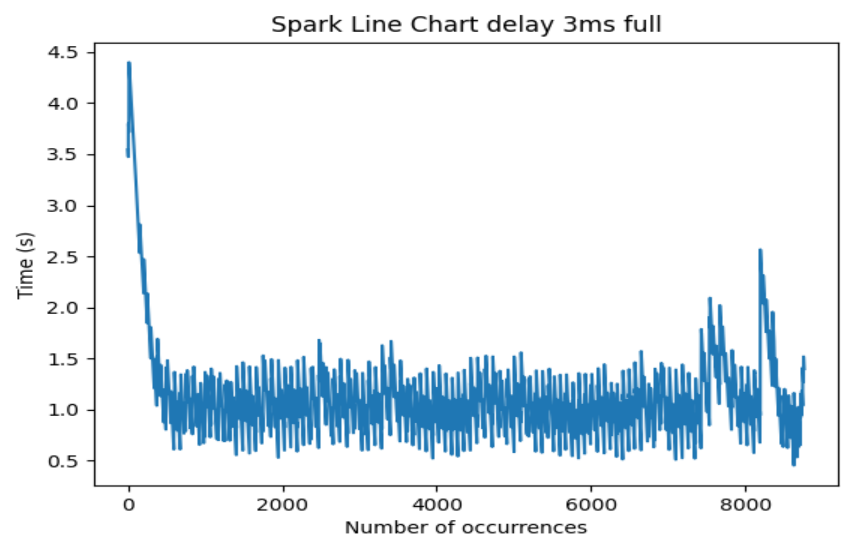
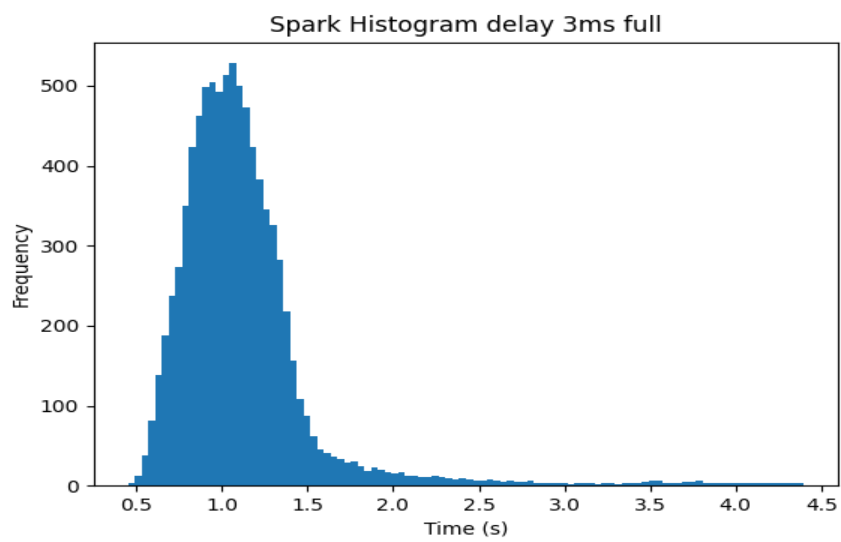
Number of data outside the std range: 190

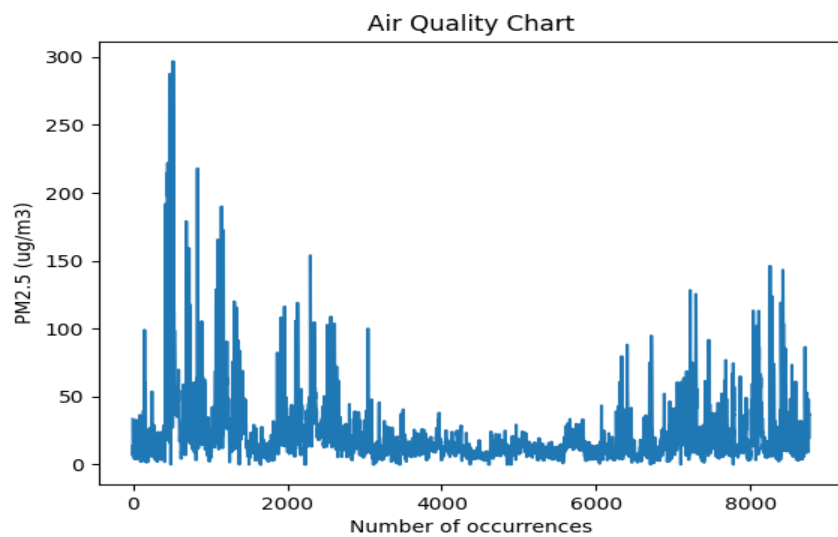
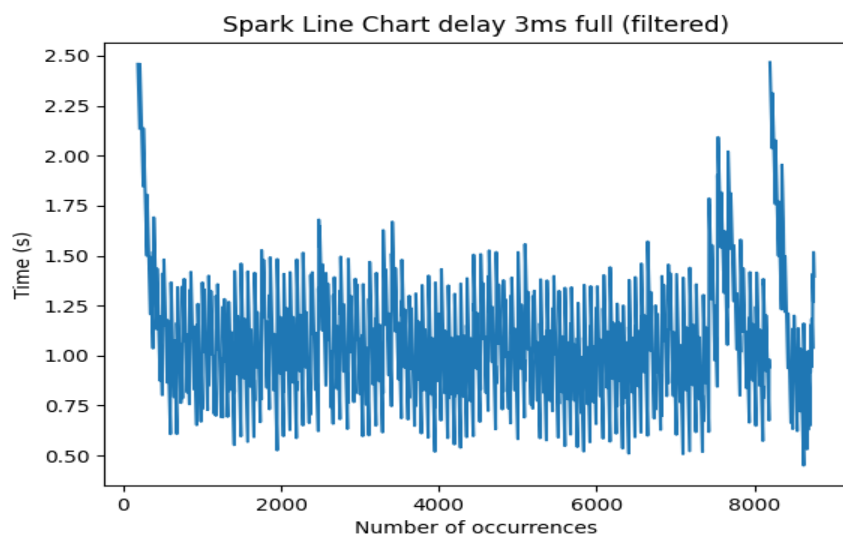
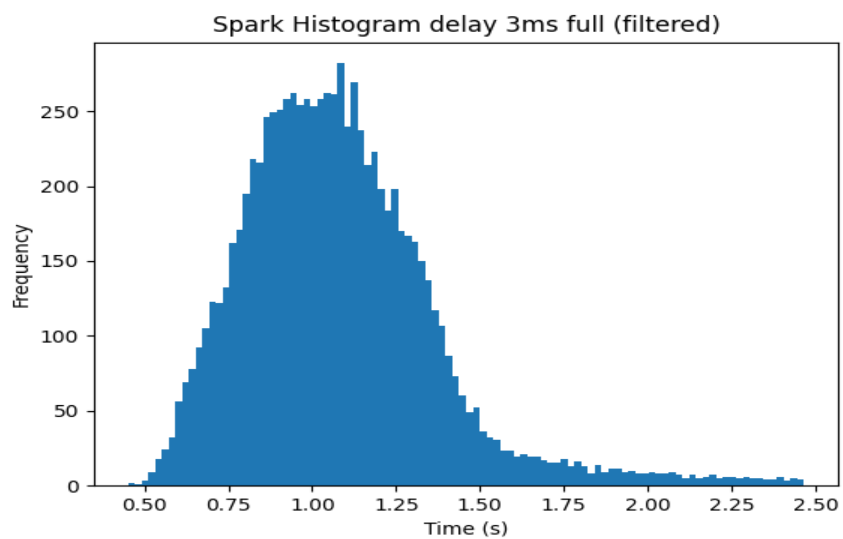
Spark interquartile range

End Subtract Start: 0.36012499999999999

Spark mean

End Subtract Start: 1.1282392694063927





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

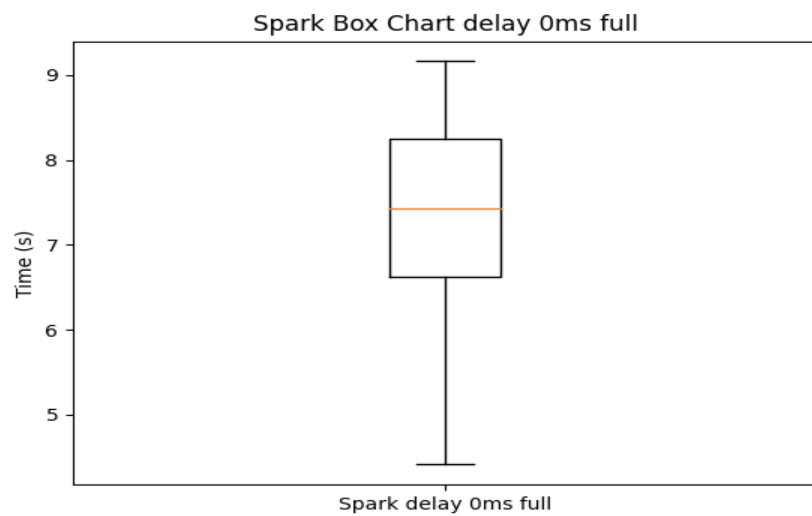
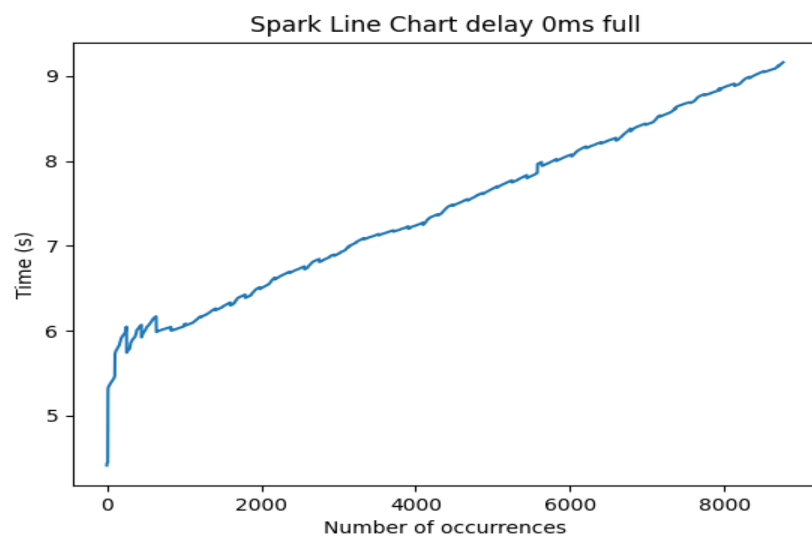
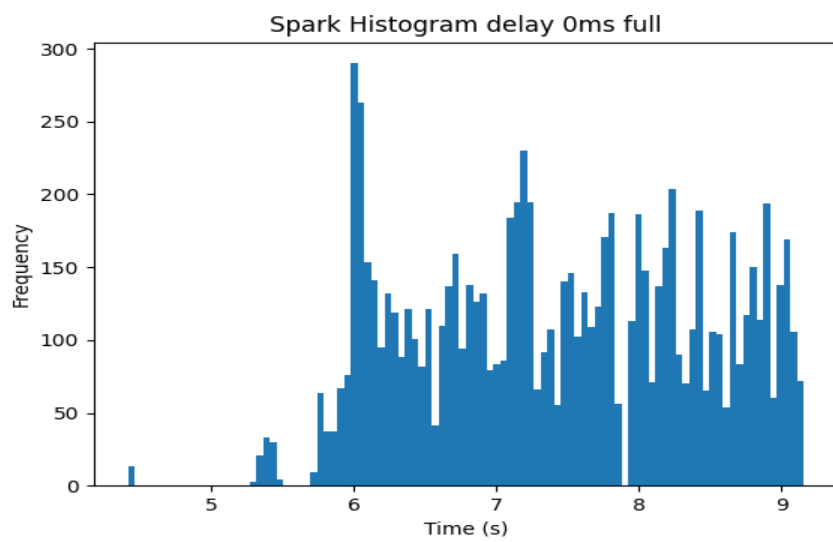
End Subtract Start: 0.9936356247974834
Lower Bound: 4.452366698666911
Upper Bound: 10.41418044745181
Number of data in the std range: 8748
Number of data outside the std range: 12

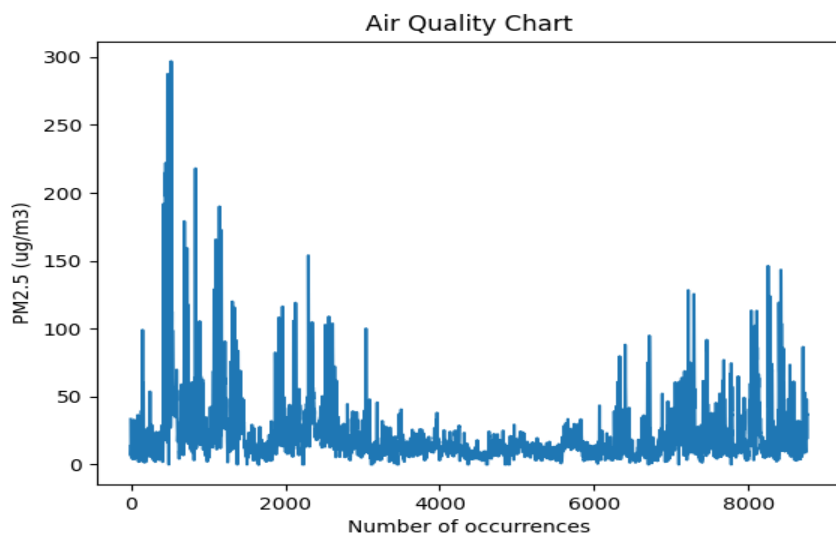
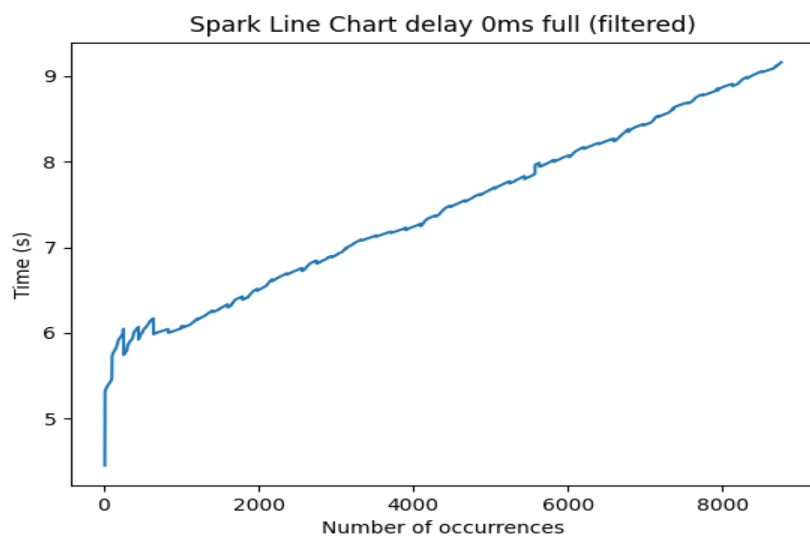
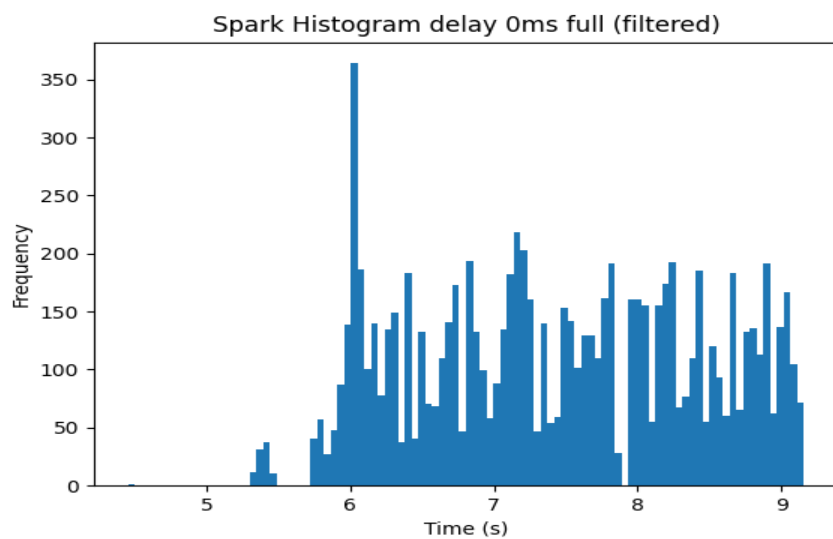
Spark interquartile range

End Subtract Start: 1.6332500000000003

Spark mean

End Subtract Start: 7.433273573059361





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

