

## **Kafka test setup (kafkaDelay3Full)**

Technology: Kafka Streams

Producer Delay (Send next message): 3ms

Full data set (qty): 8760

Number of tests performed: 1

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

## **Kafka median values**

End Subtract Start: 0.086

## **Kafka standard deviation**

End Subtract Start: 0.031838625956855

Lower Bound: -0.007050695222163159

UpperBound: 0.18398106051896684

Number of data in the std range: 8746

Number of data outside the std range: 14

## **Kafka interquartile range**

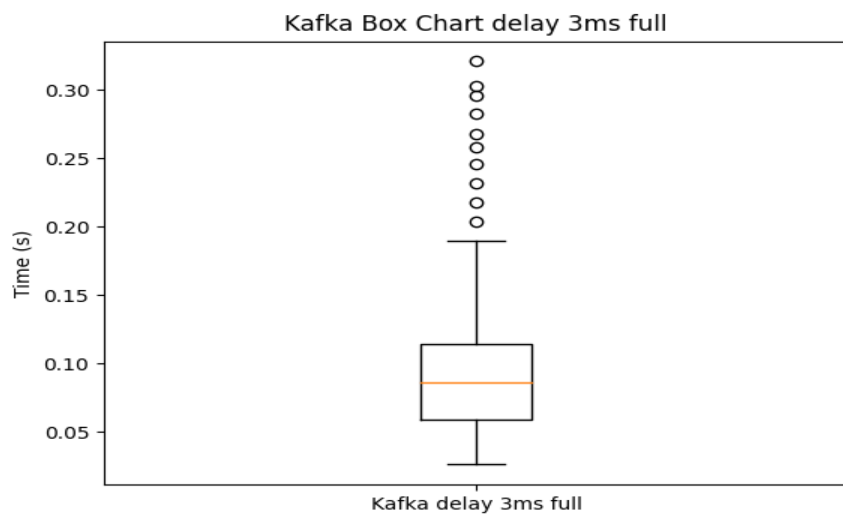
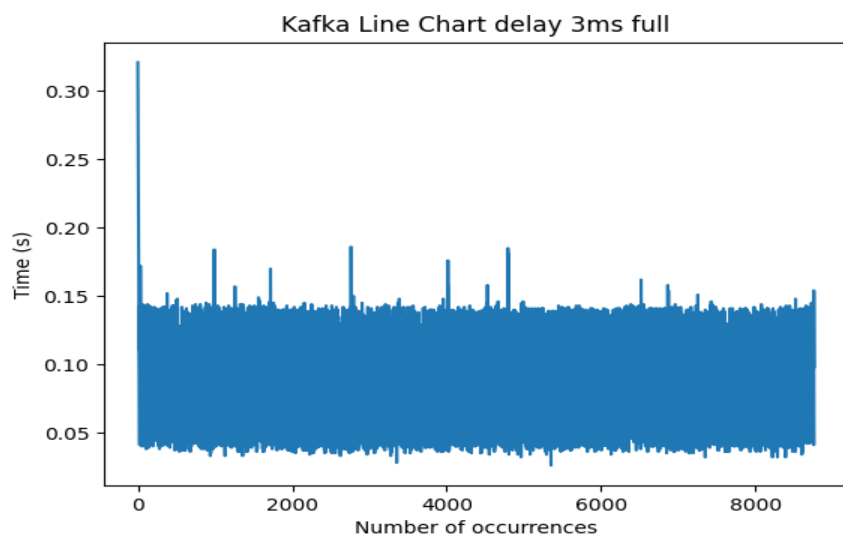
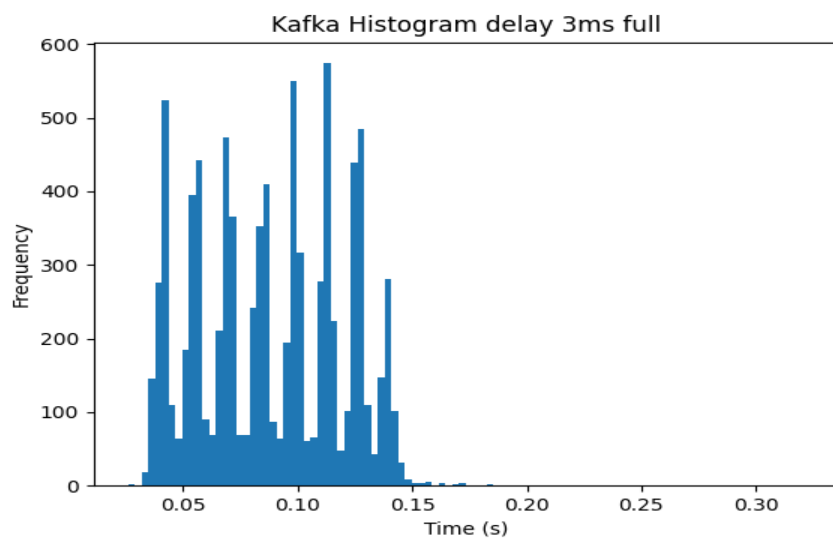
End Subtract Start: 0.055000000000000001

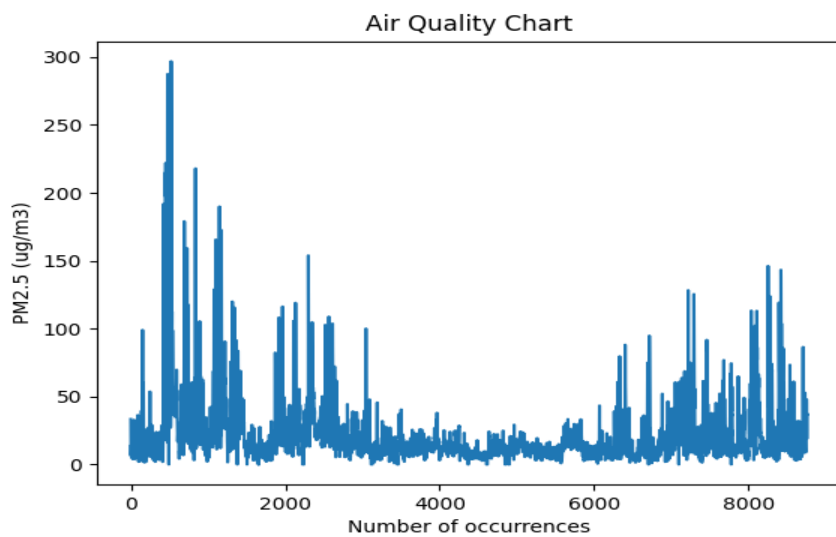
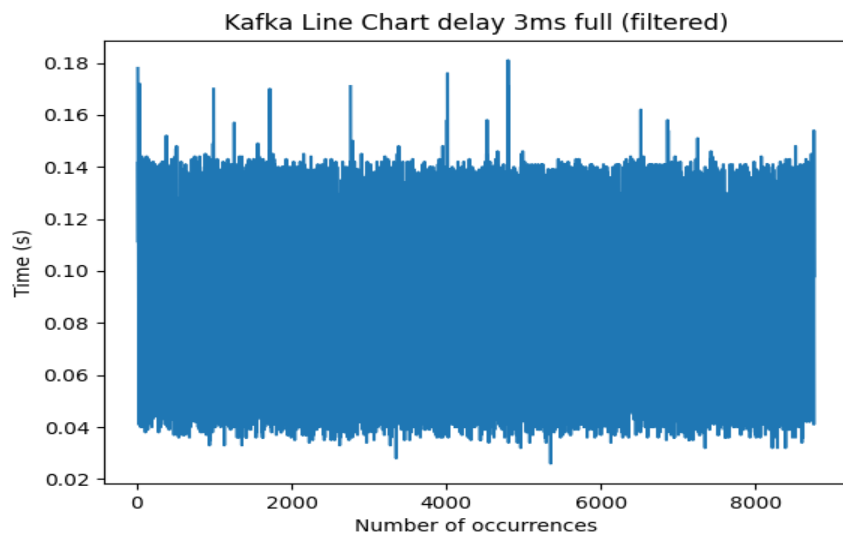
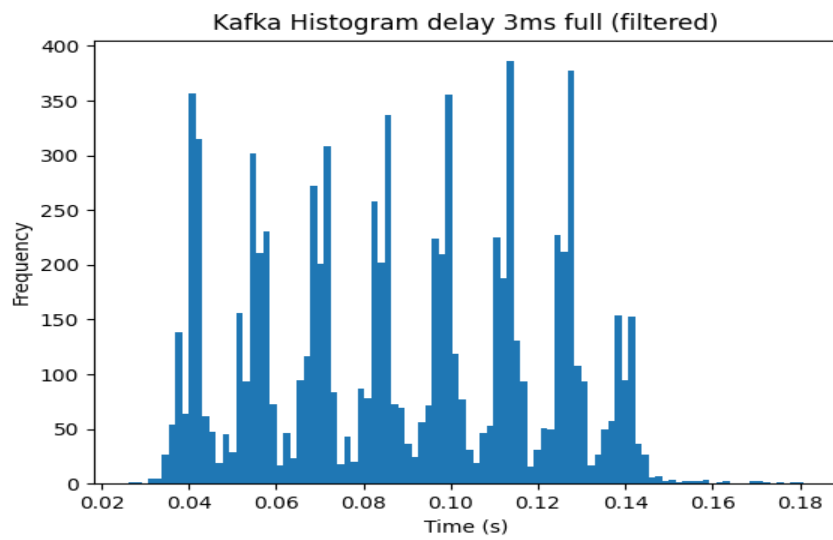
## **Kafka mean**

End Subtract Start: 0.08846518264840185

## **Average time for each sample**

0.08846518264840185





## **Kafka test setup (kafkaDelay0Full)**

Technology: Kafka Streams

Producer Delay (Send next message): 0ms

Full data set (qty): 8760

Number of tests performed: 1

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

## **Kafka median values**

End Subtract Start: 2.517

## **Kafka standard deviation**

End Subtract Start: 0.8979420284007731

Lower Bound: -0.16419903040779893

Upper Bound: 5.22345313999684

Number of data in the std range: 8760

Number of data outside the std range: 0

## **Kafka interquartile range**

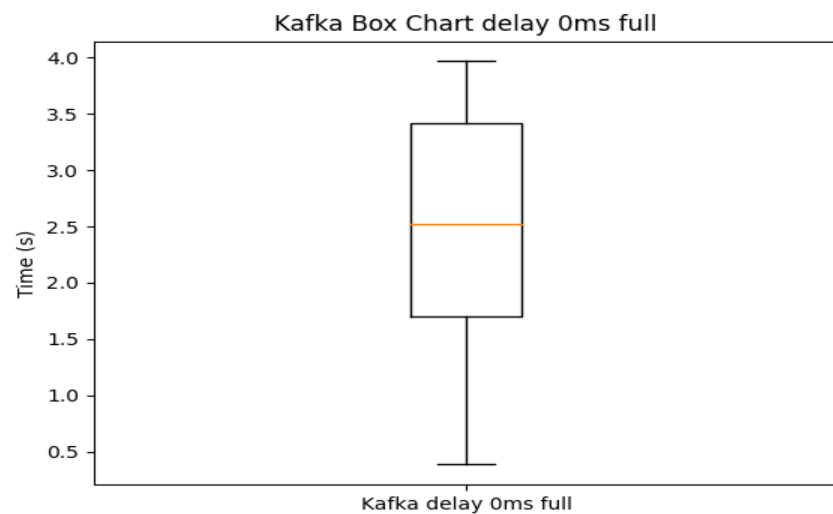
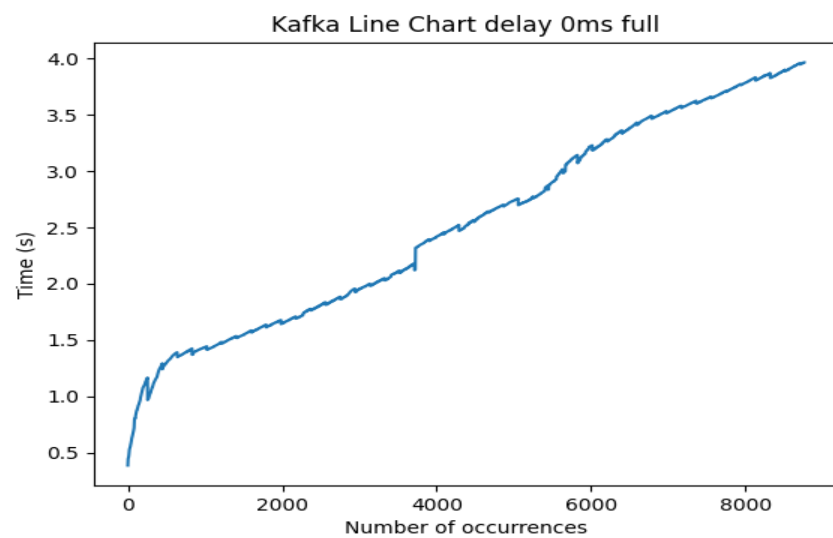
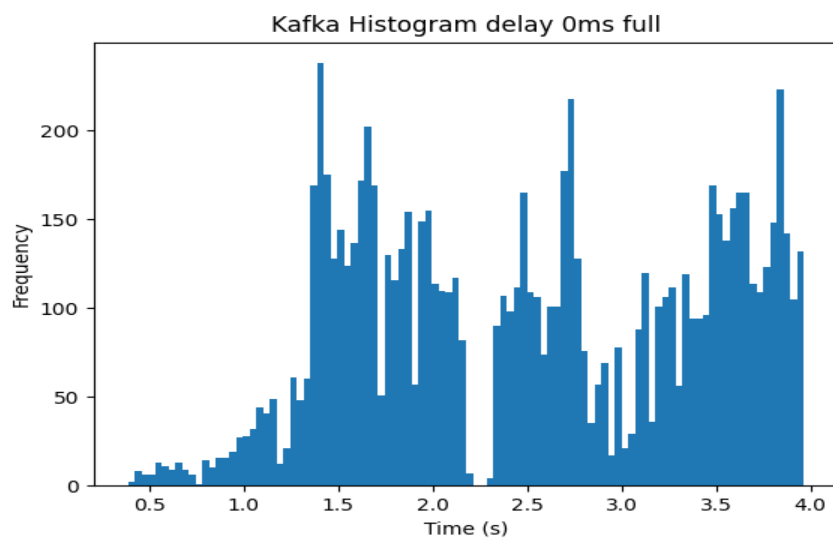
End Subtract Start: 1.7089999999999999

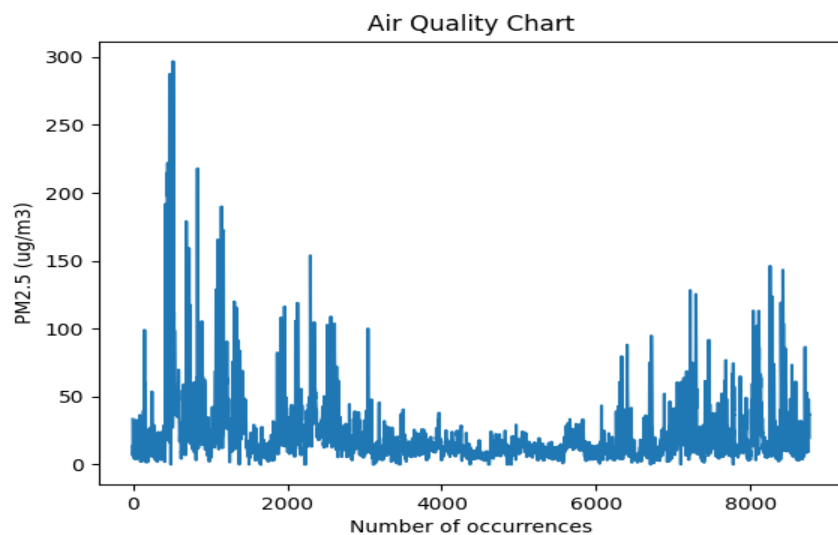
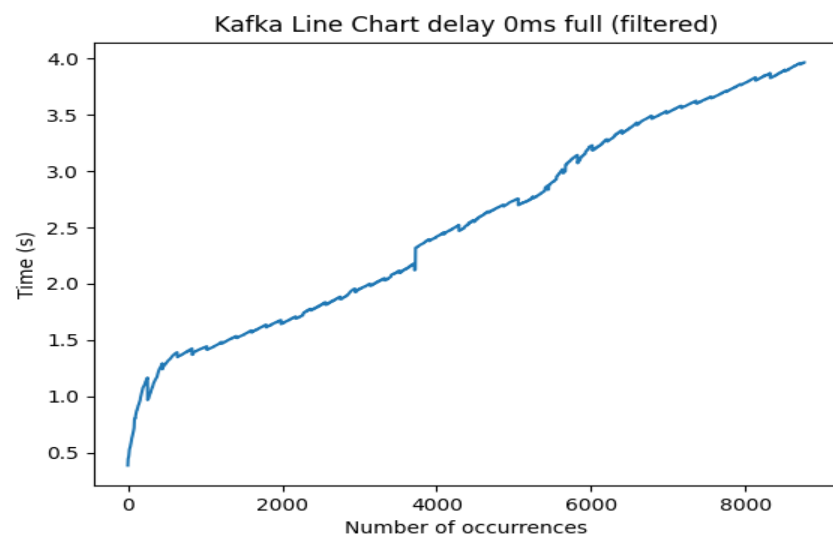
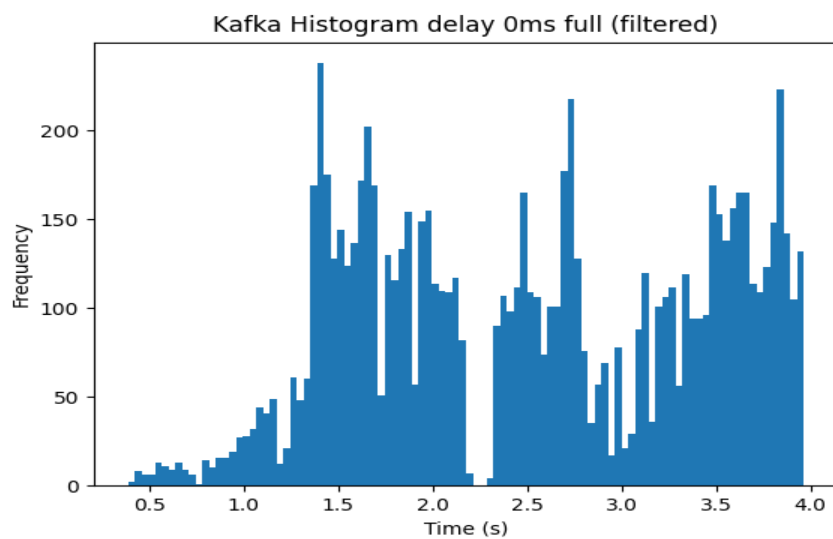
## **Kafka mean**

End Subtract Start: 2.5296270547945205

## **Average time for each sample**

2.5296270547945205





## **Kafka test setup (kafkaDelay0Half)**

Technology: Kafka Streams

Producer Delay (Send next message): 0ms

Full data set (qty): 4380

Number of tests performed: 1

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

## **Kafka median values**

End Subtract Start: 2.25

## **Kafka standard deviation**

End Subtract Start: 1.1918093656227724

Lower Bound: -0.7640655397906917

Upper Bound: 6.386790653945943

Number of data in the std range: 4380

Number of data outside the std range: 0

## **Kafka interquartile range**

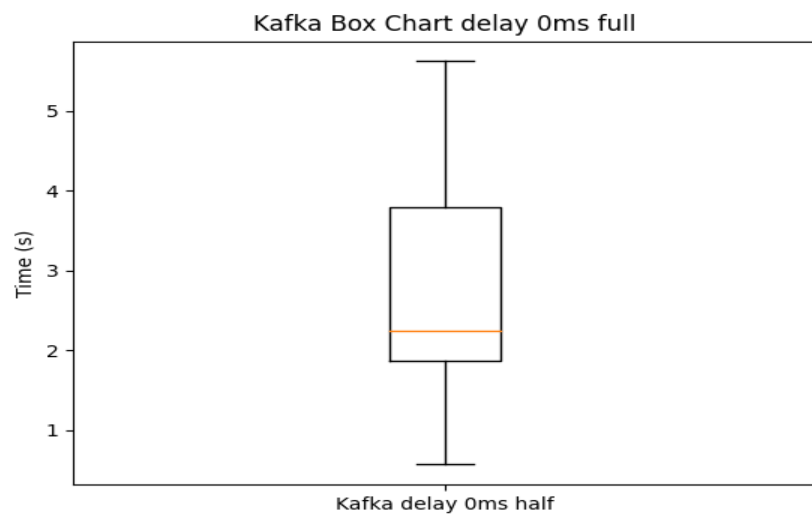
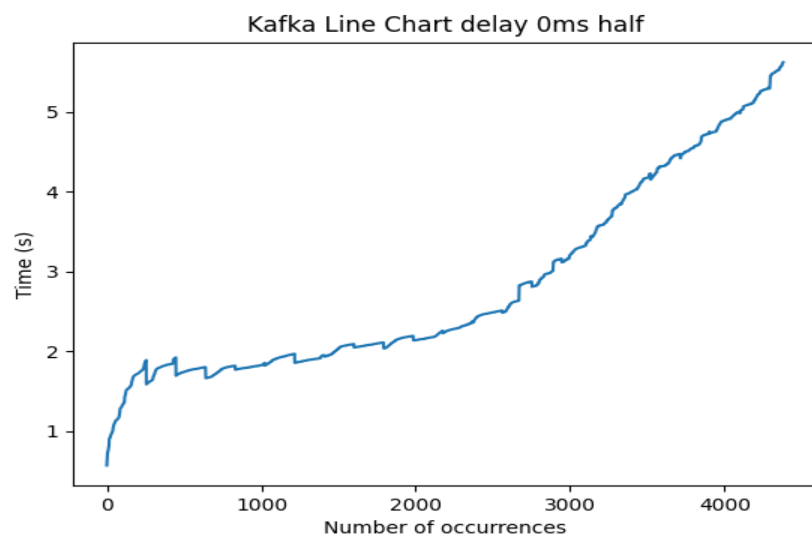
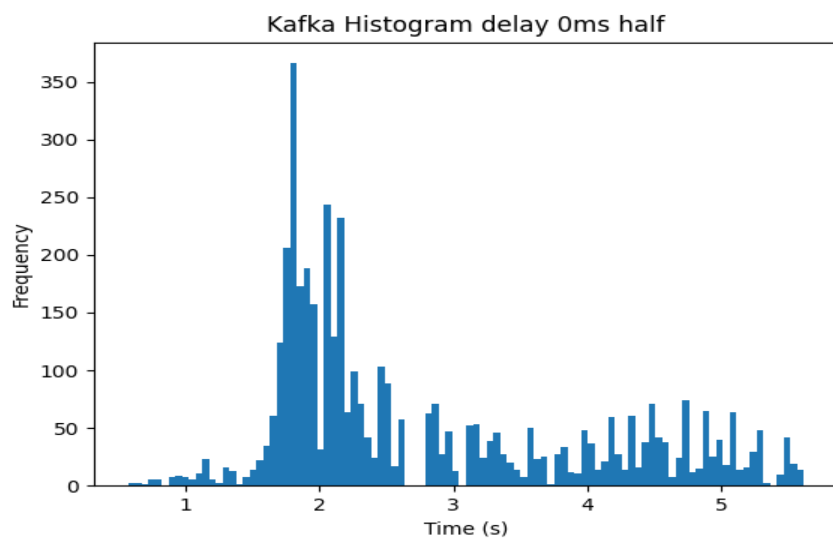
End Subtract Start: 1.9117499999999998

## **Kafka mean**

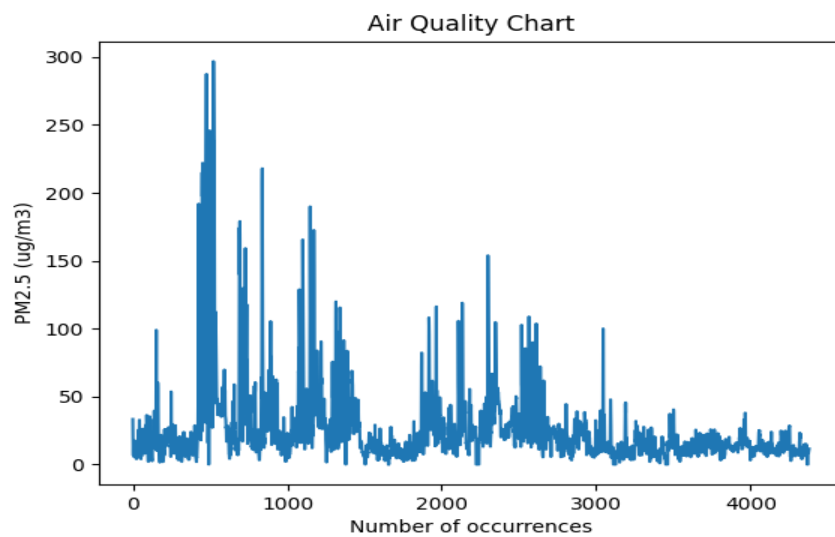
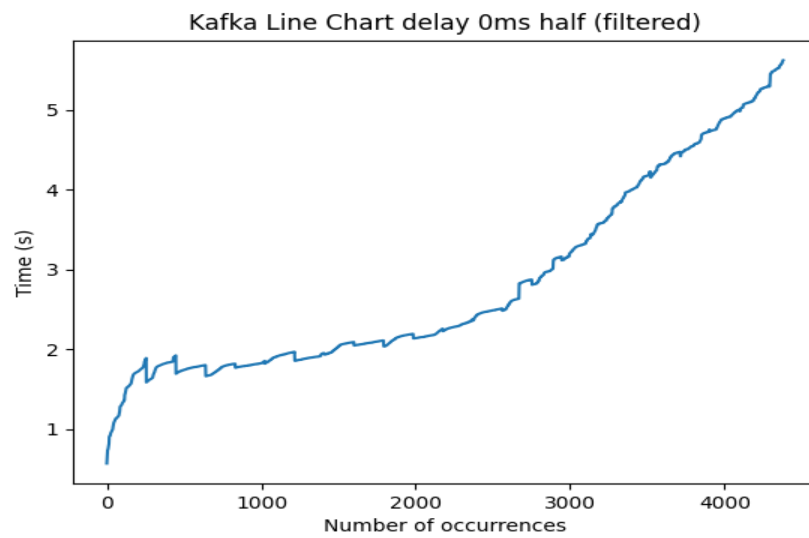
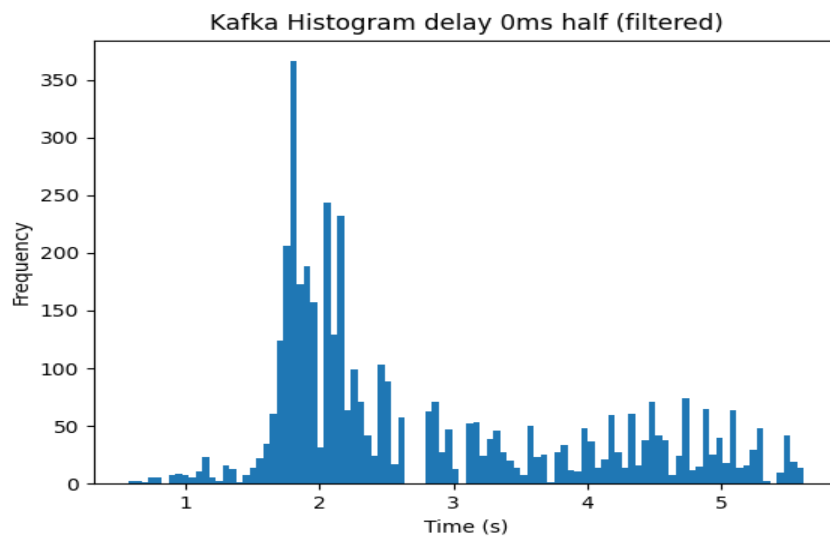
End Subtract Start: 2.8113625570776257

## **Average time for each sample**

2.8113625570776257







## **Spark test setup (sparkDelay3Full)**

Technology: Spark Structured Streaming  
Producer Delay (Send next message): 3ms  
Full data set (qty): 8760  
Number of tests performed: 1  
Start: Timestamp from Producer  
End: Timestamp from Consumer  
Unit: The results are given in seconds

## **Spark median values**

End Subtract Start: 1.424

## **Spark standard deviation**

End Subtract Start: 0.7630455454277979  
Lower Bound: -0.7337020472422975  
Upper Bound: 3.84457122532449  
Number of data in the std range: 8527  
Number of data outside the std range: 233

## **Spark interquartile range**

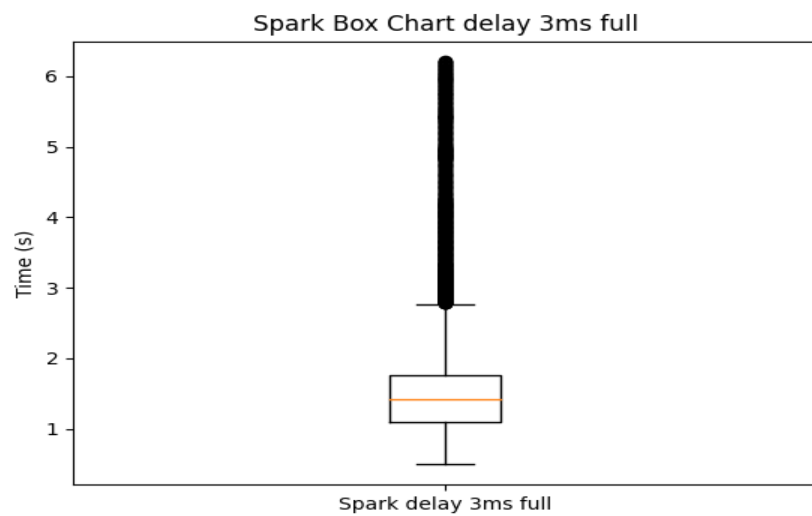
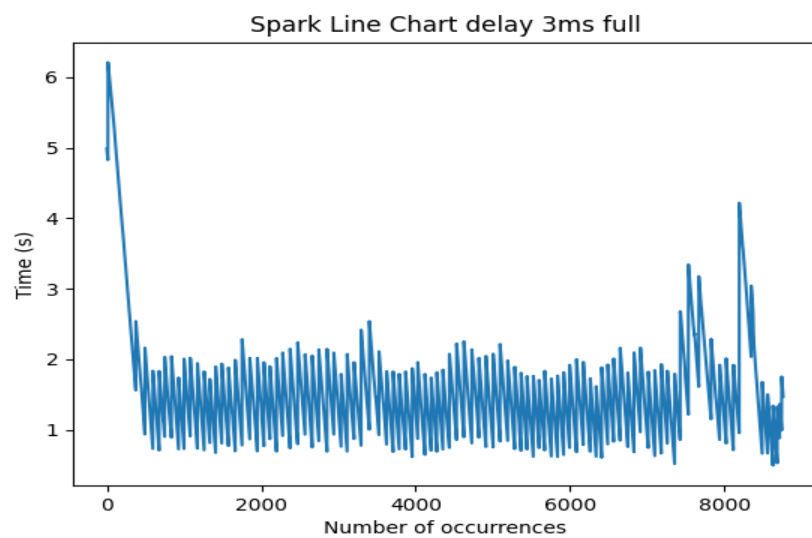
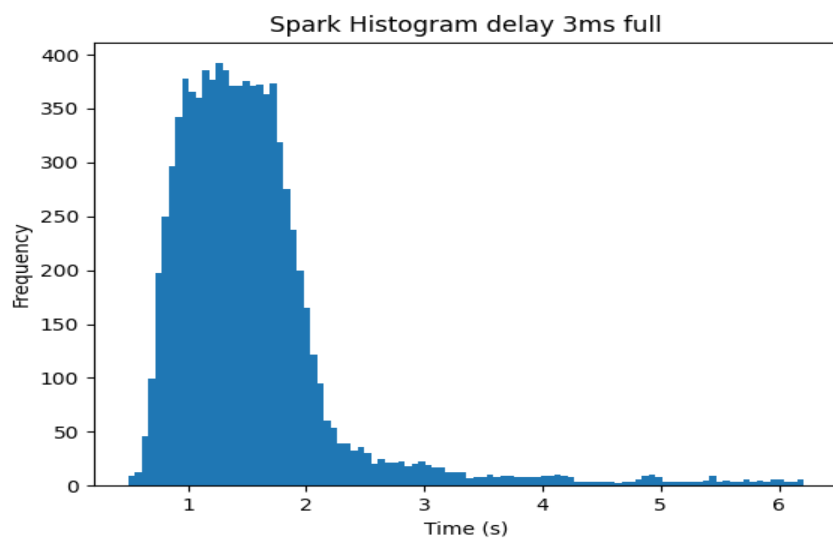
End Subtract Start: 0.6705000000000001

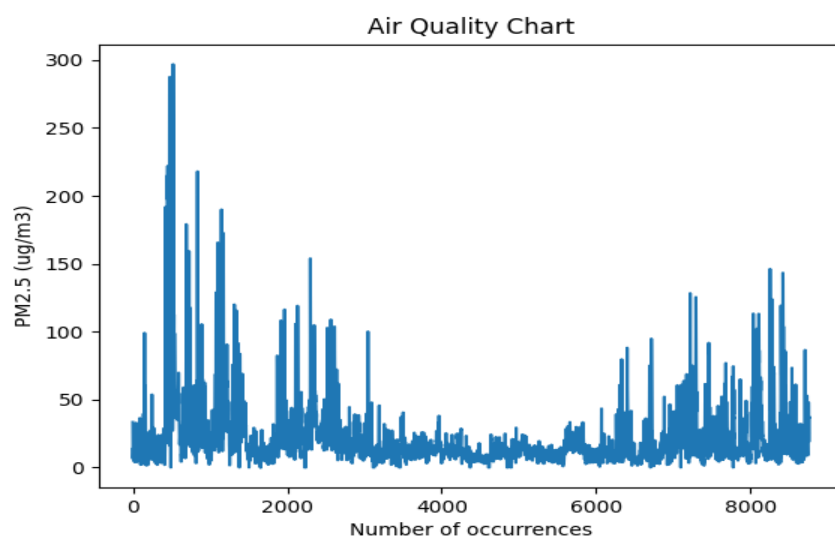
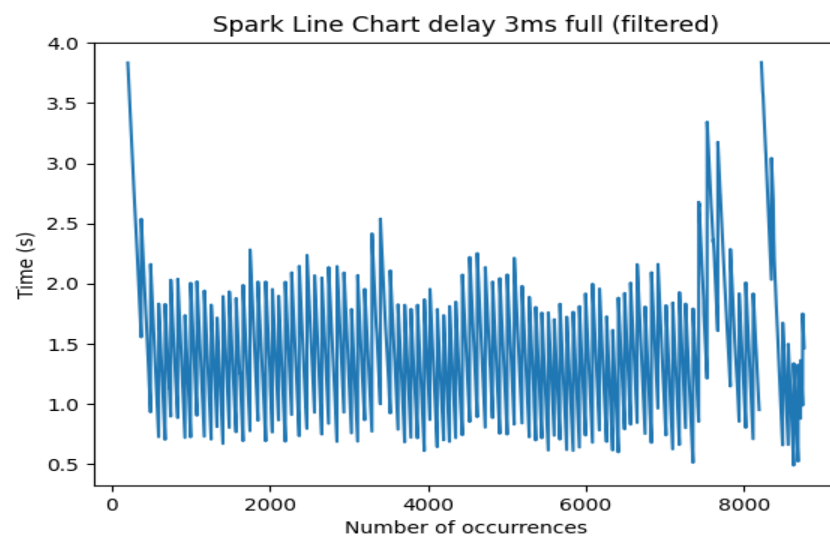
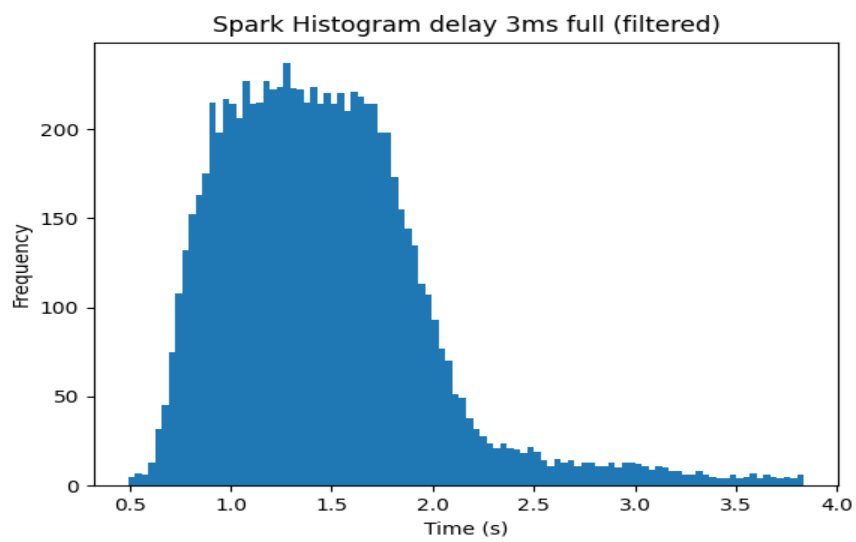
## **Spark mean**

End Subtract Start: 1.555434589041096

## **Average time for each sample**

1.555434589041096





## **Spark test setup (sparkDelay0Full)**

Technology: Spark Structured Streaming

Producer Delay (Send next message): 0ms

Full data set (qty): 8760

Number of tests performed: 1

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

## **Spark median values**

End Subtract Start: 10.357

## **Spark standard deviation**

End Subtract Start: 1.1448879124138276

Lower Bound: 6.926223819836142

Upper Bound: 13.795551294319107

Number of data in the std range: 8747

Number of data outside the std range: 13

## **Spark interquartile range**

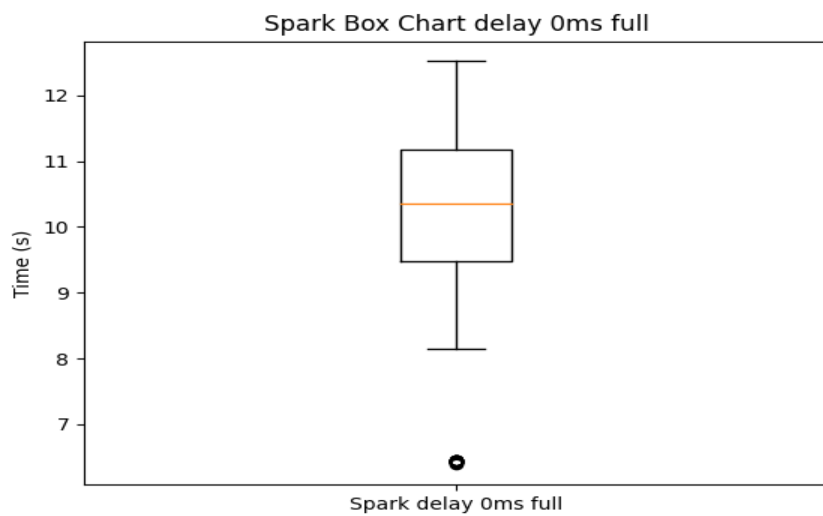
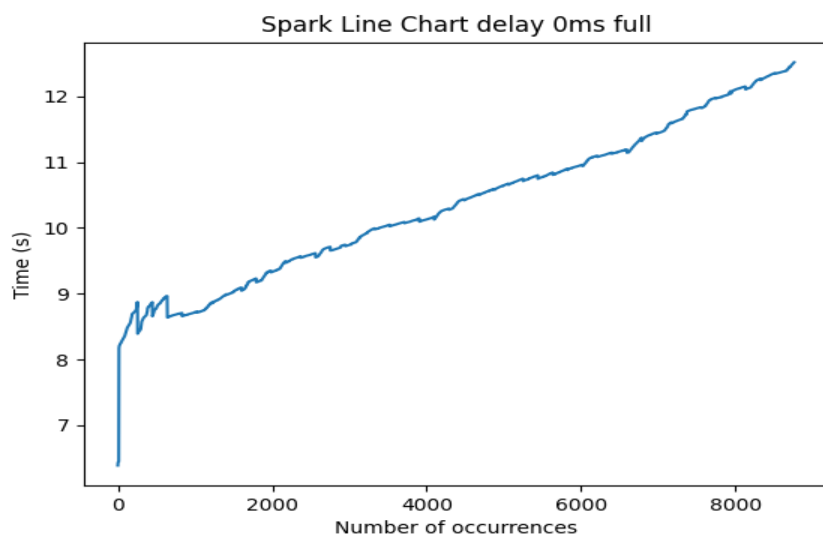
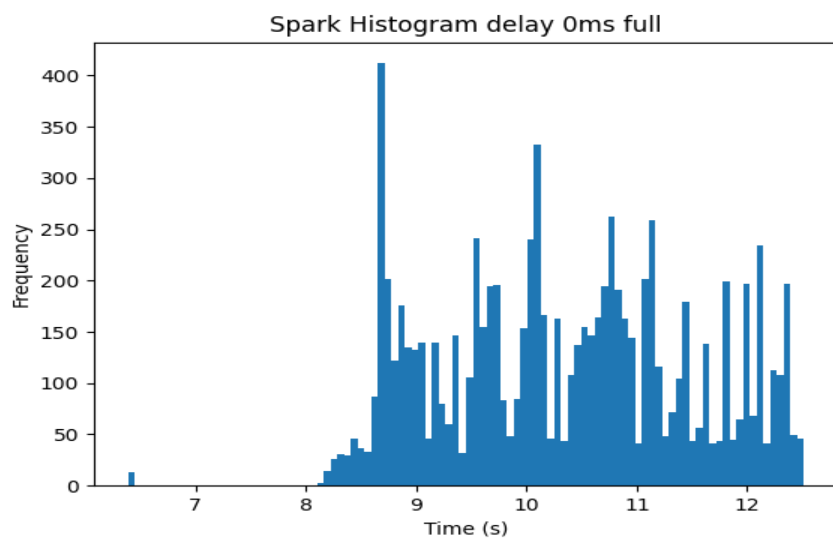
End Subtract Start: 1.686

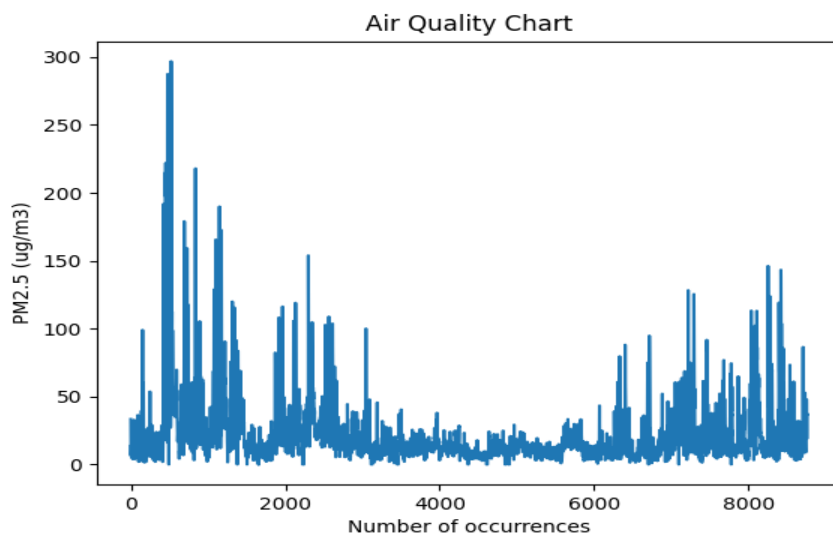
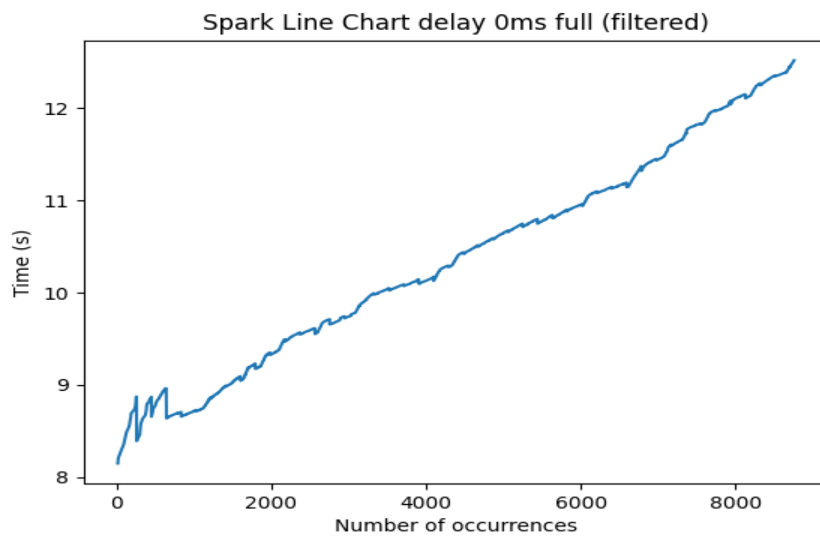
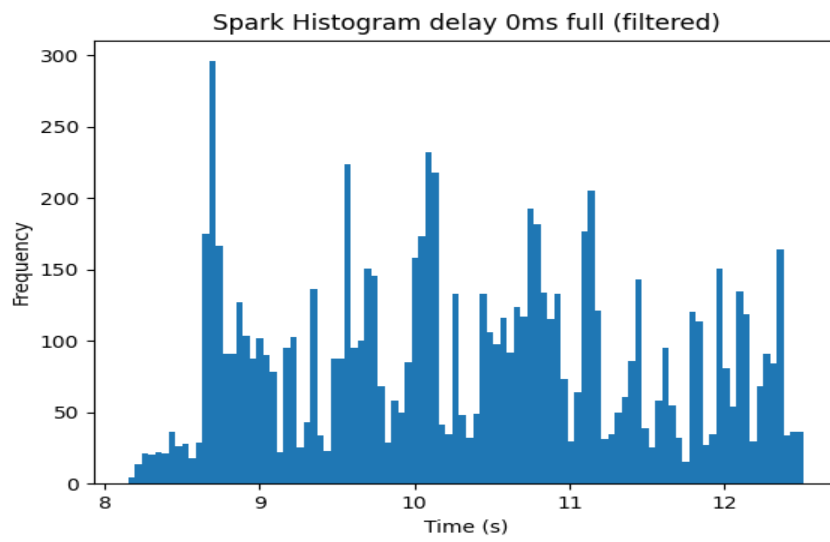
## **Spark mean**

End Subtract Start: 10.360887557077625

## **Average time for each sample**

10.360887557077625





## **Spark test setup (sparkDelay0Half)**

Technology: Spark Structured Streaming  
Producer Delay (Send next message): 0ms  
Full data set (qty): 4380  
Number of tests performed: 1  
Start: Timestamp from Producer  
End: Timestamp from Consumer  
Unit: The results are given in seconds

## **Spark median values**

End Subtract Start: 8.592

## **Spark standard deviation**

End Subtract Start: 0.78882450987976  
Lower Bound: 6.424329666707753  
Upper Bound: 11.157276725986314  
Number of data in the std range: 4355  
Number of data outside the std range: 25

## **Spark interquartile range**

End Subtract Start: 1.1474999999999999

## **Spark mean**

End Subtract Start: 8.790803196347033

## **Average time for each sample**

8.790803196347033



