

Kafka test setup (kafkaDelay3Full)

Technology: Kafka Streams

Producer Delay (Send next message): 3ms

Full data set (qty): 8760

Processed values (qty): 8646

Number of tests performed: 10

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

Kafka median values

End Subtract Start: 0.0864

Kafka standard deviation

End Subtract Start: 0.5619762705249922

Lower Bound: -1.4643740926297997

UpperBound: 1.9074835305201536

Number of data in the std range: 8335

Number of data outside the std range: 311

Kafka interquartile range

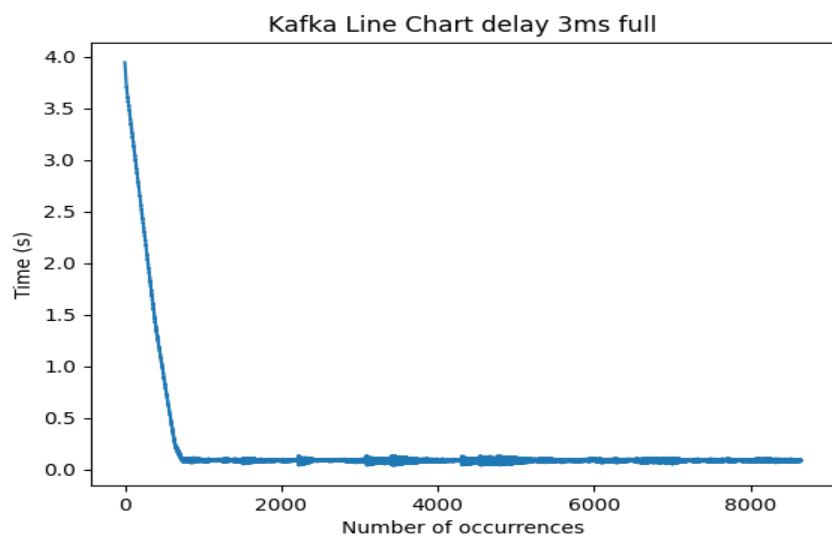
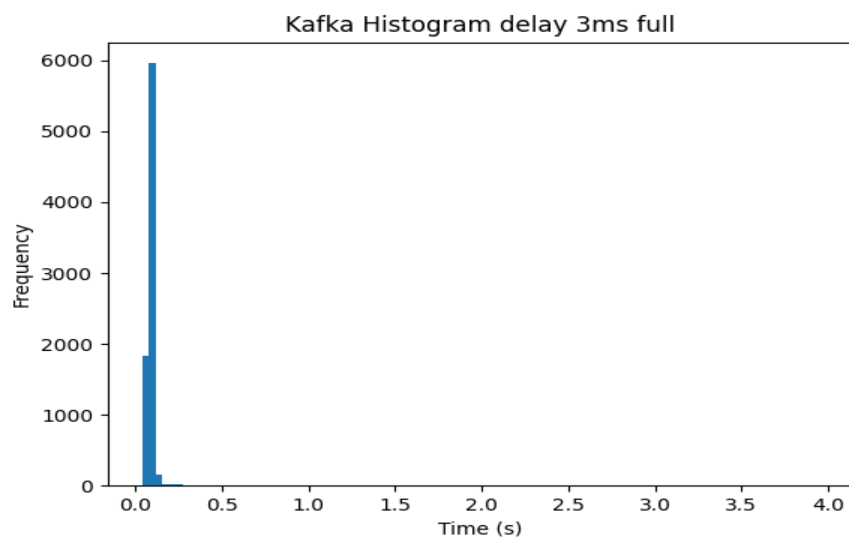
End Subtract Start: 0.019499999999999976

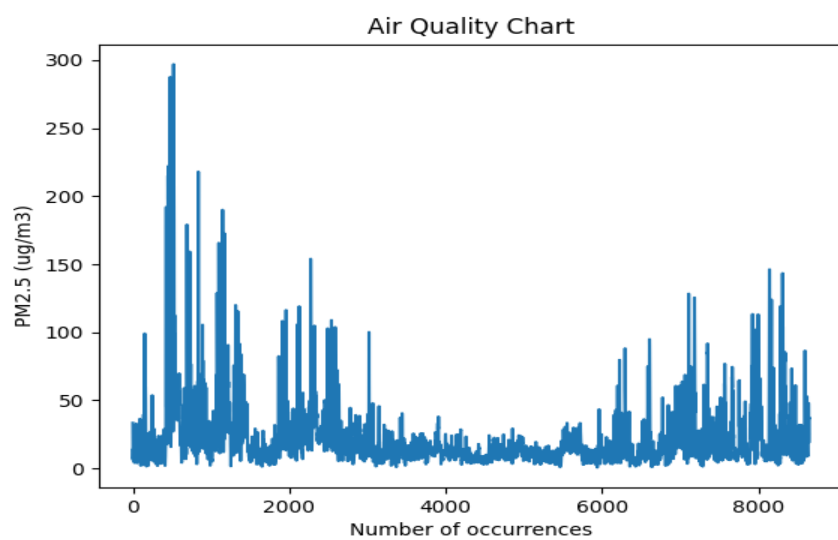
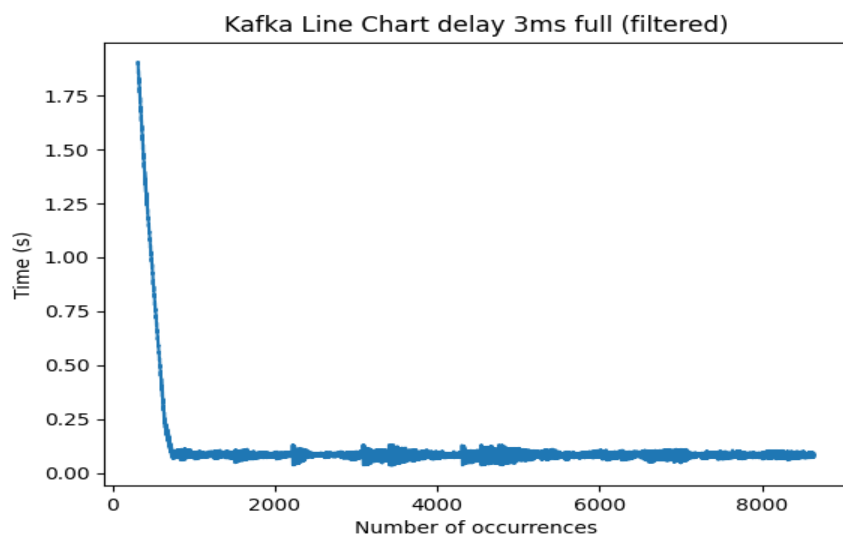
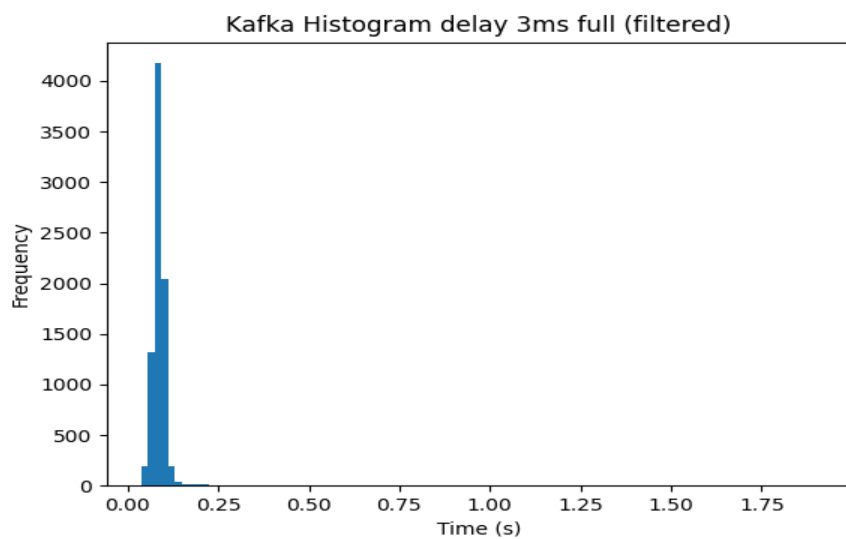
Kafka mean

End Subtract Start: 0.221554718945177

Average time for each sample

0.08504314133703447	0.08481505898681471	0.08480233634050428
0.22506812398797135	0.44975572519083973	0.46306974323386535
0.5686961600740227	0.08508662965533195	0.08514561647004396
0.0840646541753412		





Kafka test setup (kafkaDelay0Full)

Technology: Kafka Streams

Producer Delay (Send next message): 0ms

Full data set (qty): 8760

Processed values (qty): 8646

Number of tests performed: 10

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

Kafka median values

End Subtract Start: 2.94855

Kafka standard deviation

End Subtract Start: 0.8463923015905146

Lower Bound: 0.4162413927070592

Upper Bound: 5.494595202250147

Number of data in the std range: 8646

Number of data outside the std range: 0

Kafka interquartile range

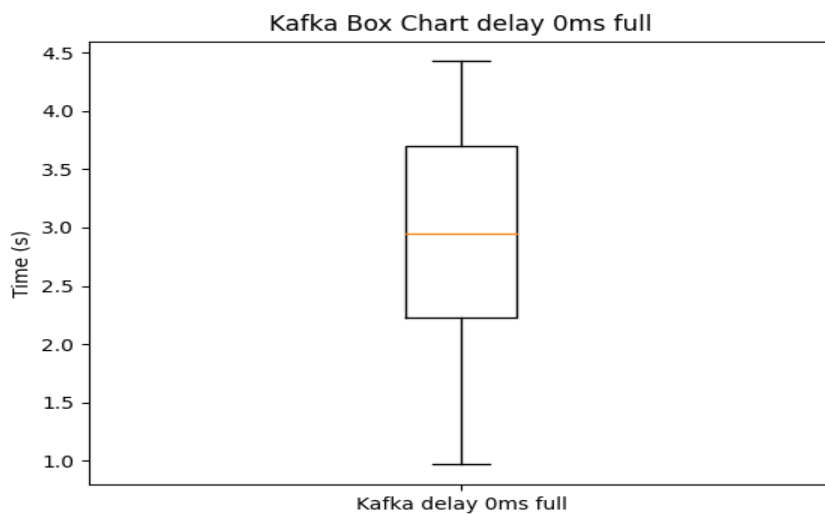
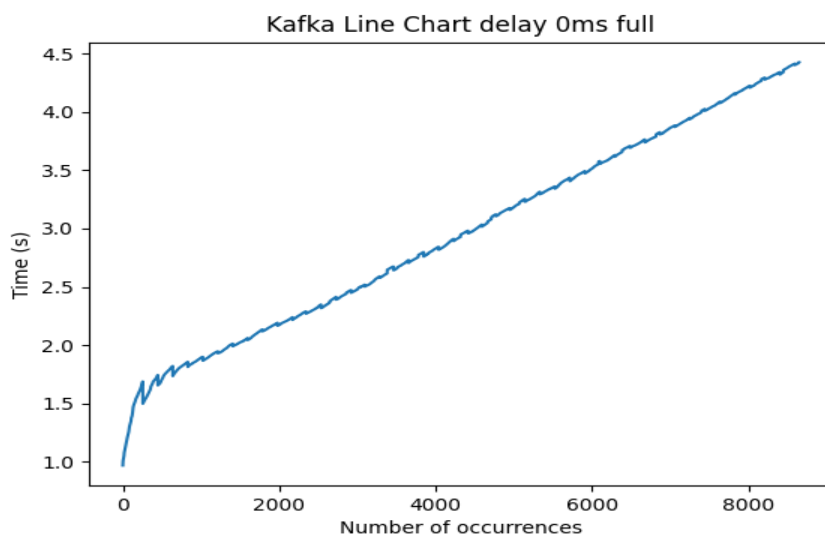
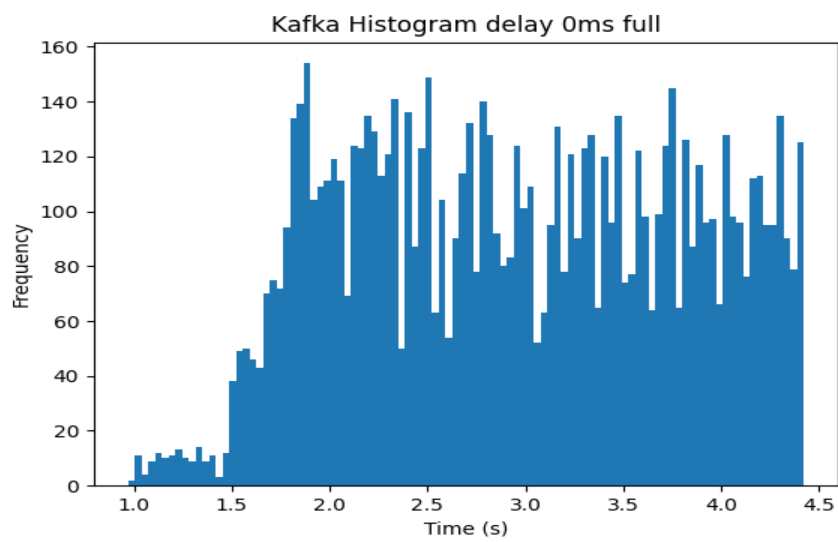
End Subtract Start: 1.4740250000000001

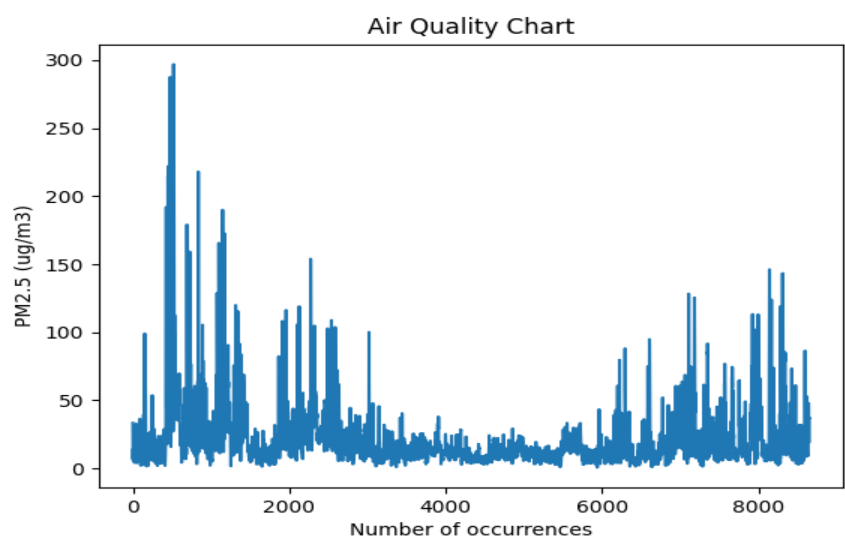
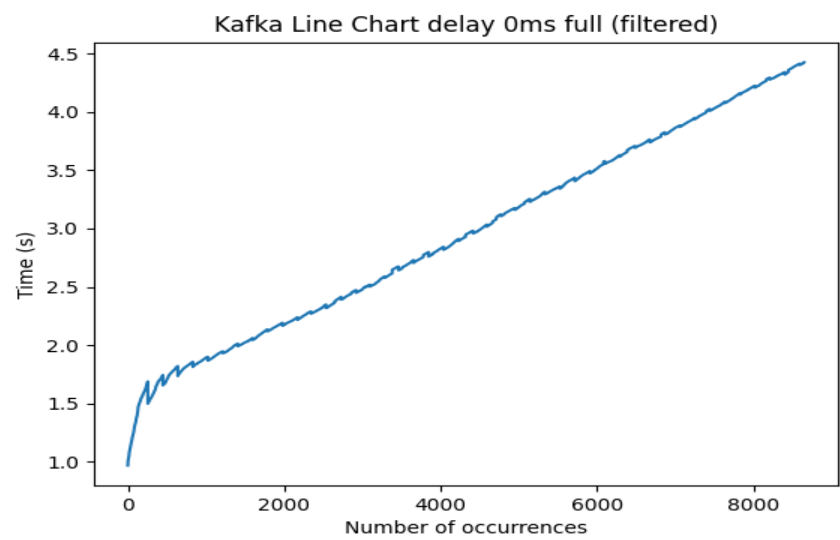
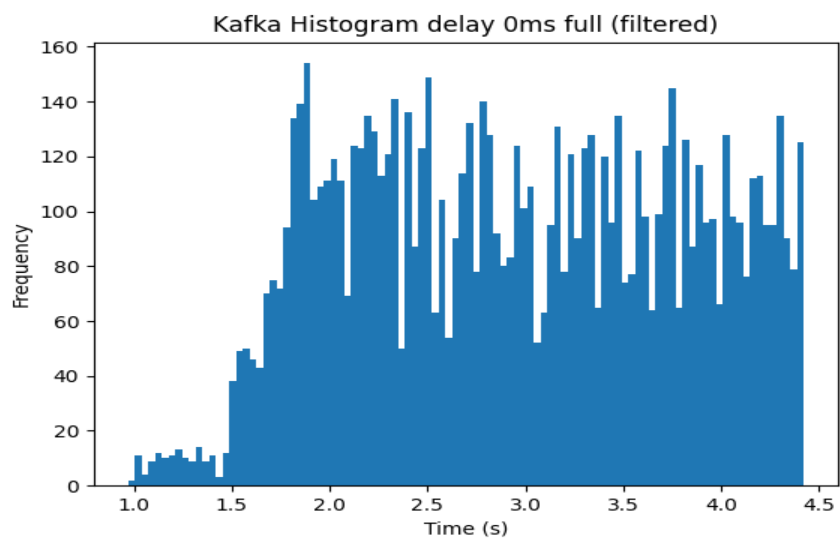
Kafka mean

End Subtract Start: 2.955418297478603

Average time for each sample

2.0842100393245433	2.032535507749248	2.5122742308582
2.006325815405968	2.1988132084200784	5.720312051815869
2.3689558177191765	3.5329775618783255	2.883476405274115
4.214302336340504		





Kafka test setup (kafkaDelay0Half)

Technology: Kafka Streams

Producer Delay (Send next message): 0ms

Full data set (qty): 4380

Processed values (qty): 4313

Number of tests performed: 10

Start: Timestamp from Producer

End: Timestamp from Consumer

Unit: The results are given in seconds

Kafka median values

End Subtract Start: 1.7246

Kafka standard deviation

End Subtract Start: 0.4048642965612879

Lower Bound: 0.5775999923008337

Upper Bound: 3.0067857716685613

Number of data in the std range: 4313

Number of data outside the std range: 0

Kafka interquartile range

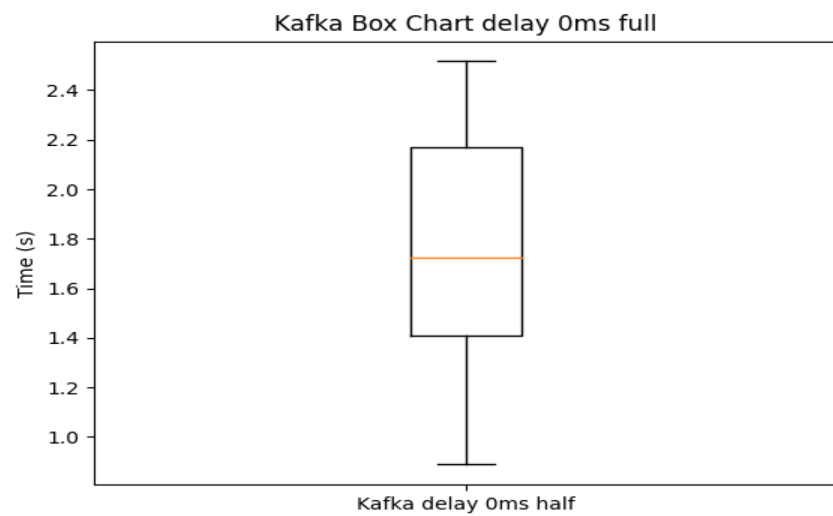
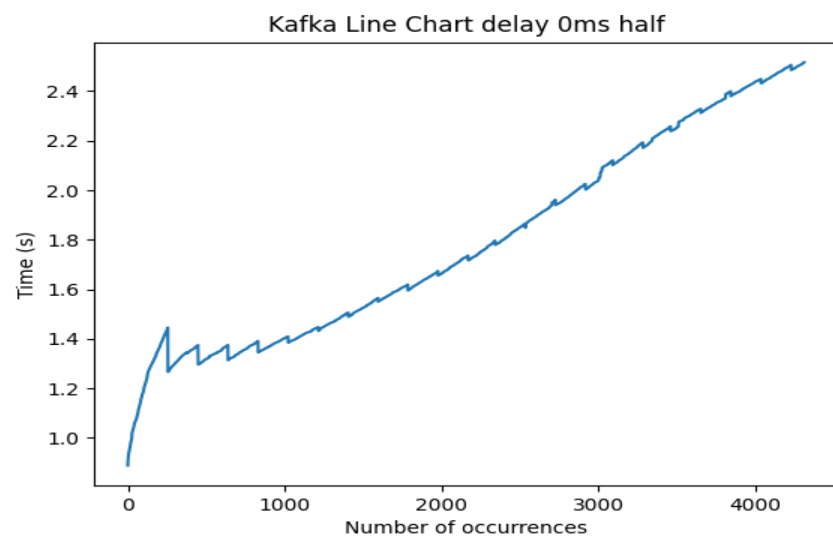
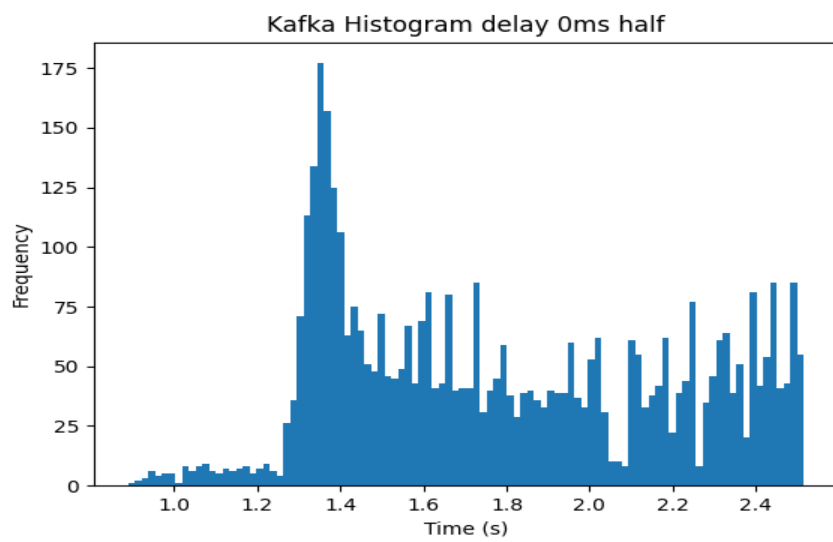
End Subtract Start: 0.7572000000000001

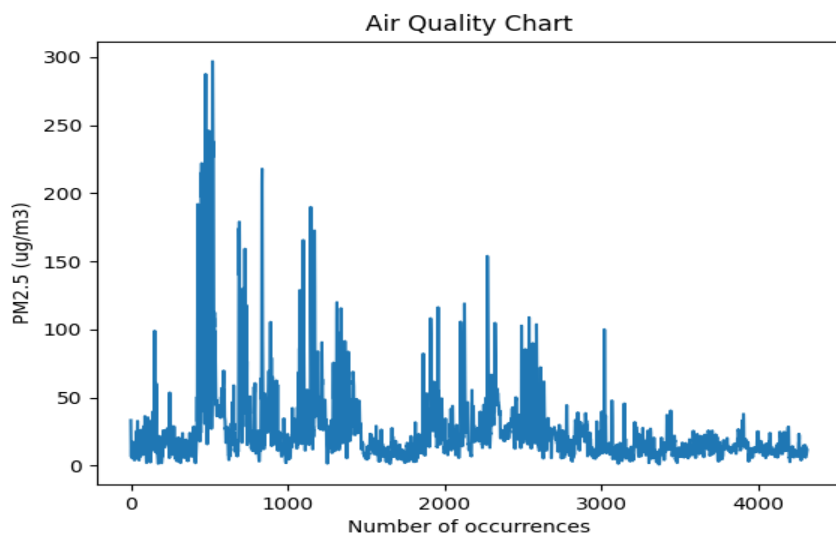
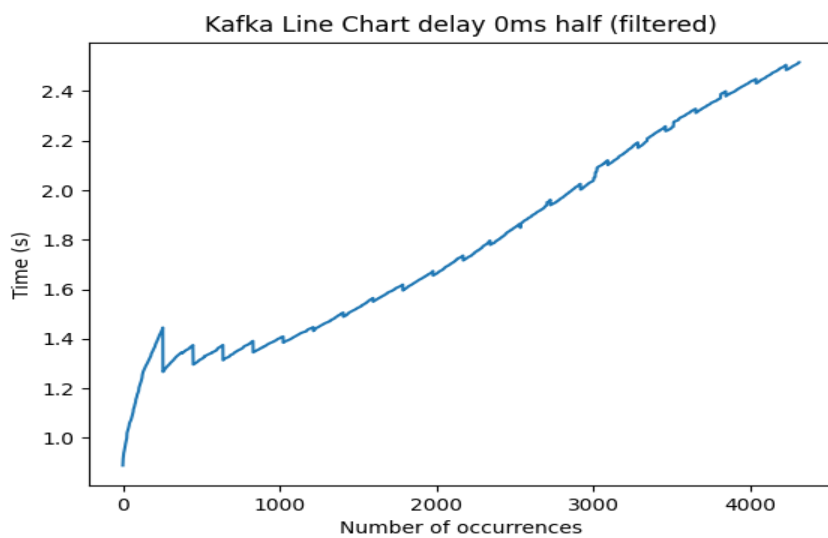
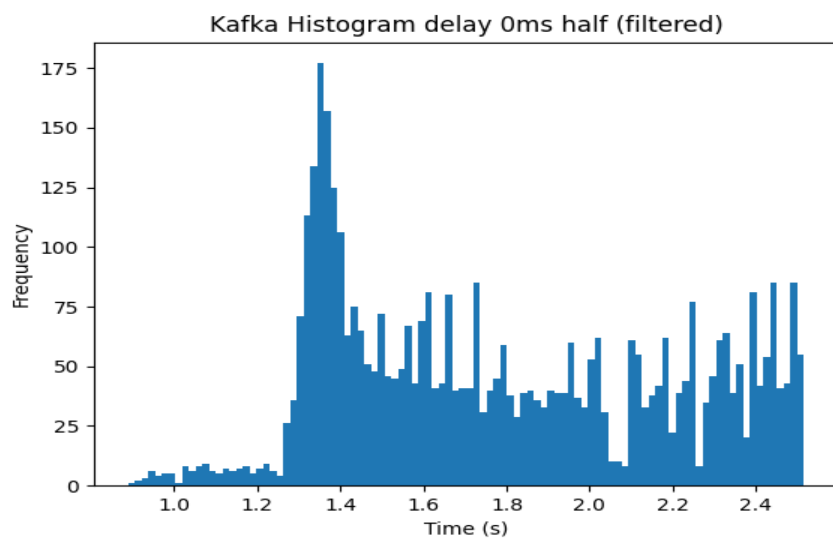
Kafka mean

End Subtract Start: 1.7921928819846975

Average time for each sample

1.3894361233480177	1.7379967539995362	1.1734658010665429
1.6508428008346858	3.8351078135868306	1.6793032691861813
1.6010781358683053	1.8745188963598425	1.7761882680268952
1.2039909575701369		





Spark test setup (sparkDelay3Full)

Technology: Spark Structured Streaming
Producer Delay (Send next message): 3ms
Full data set (qty): 8760
Processed values (qty): 8646
Number of tests performed: 10
Start: Timestamp from Producer
End: Timestamp from Consumer
Unit: The results are given in seconds

Spark median values

End Subtract Start: 0.80115

Spark standard deviation

End Subtract Start: 0.5784504173543258
Lower Bound: -0.798260204179563
Upper Bound: 2.6724422999463915
Number of data in the std range: 8410
Number of data outside the std range: 236

Spark interquartile range

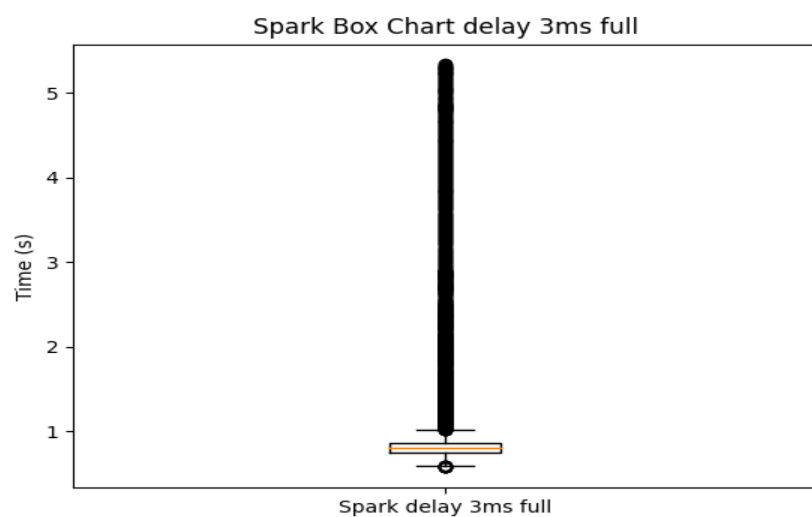
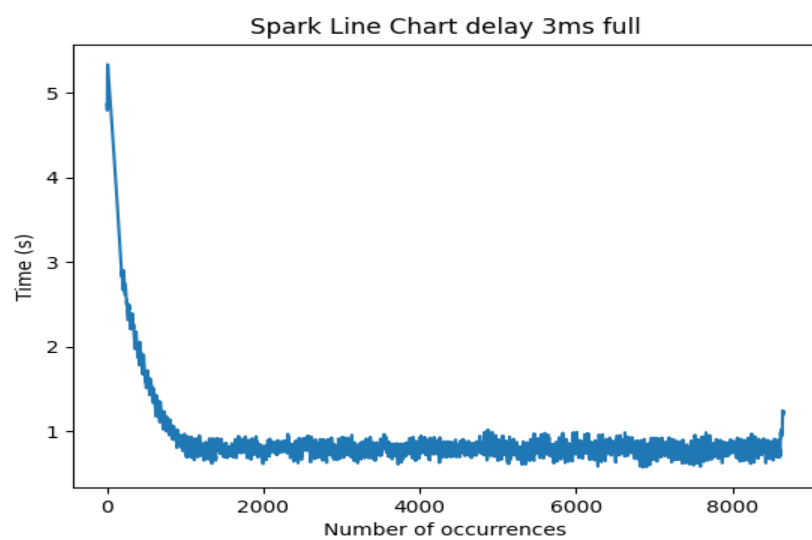
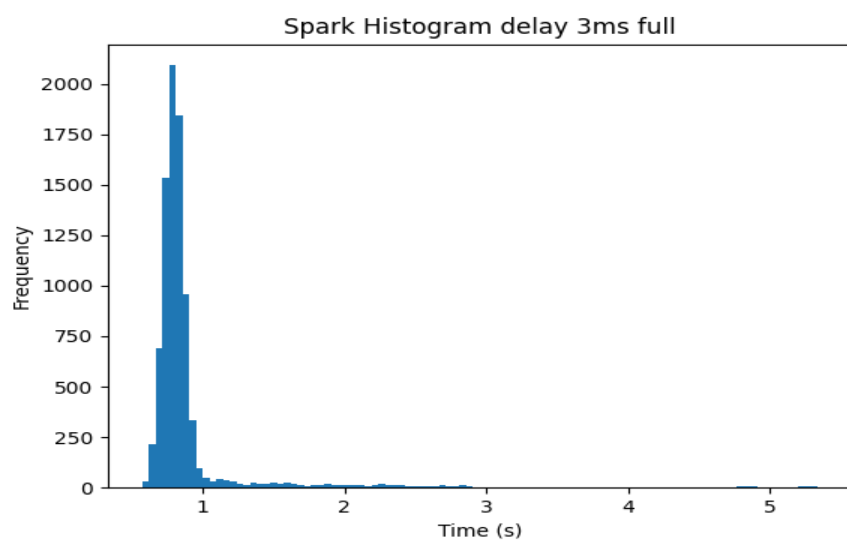
End Subtract Start: 0.10610000000000008

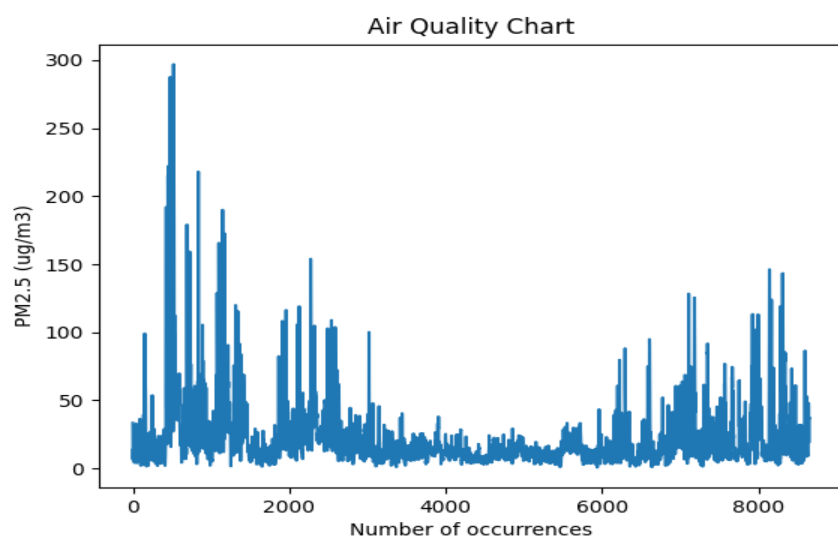
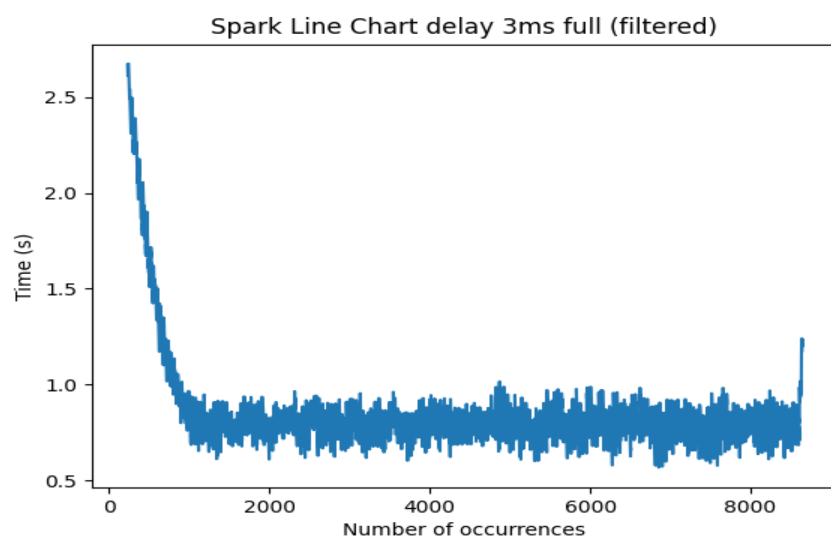
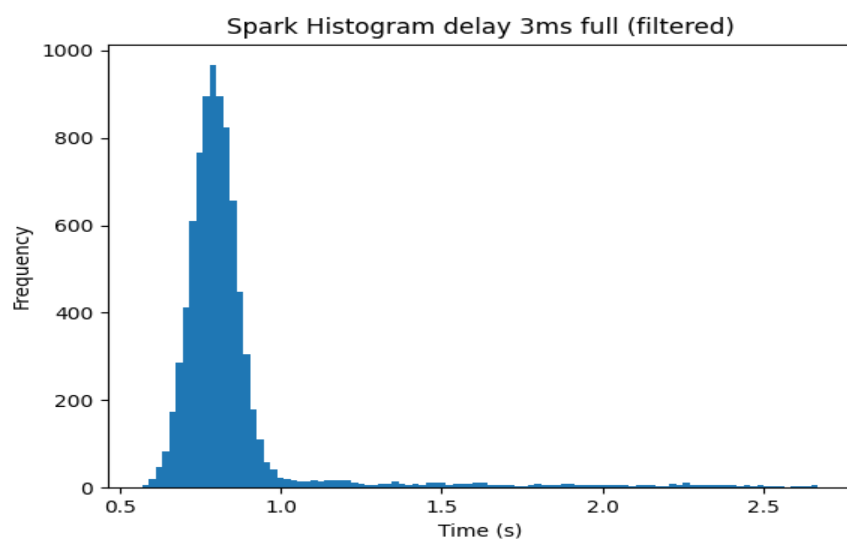
Spark mean

End Subtract Start: 0.9370910478834142

Average time for each sample

0.8932443904695813 0.8528002544529262 0.8395351607679851
0.8250818875780708 0.8223111265325006 0.8297138561184363
1.07073155216285 0.814232593106639 0.8011066389081657
1.6221530187369884





Spark test setup (sparkDelay0Full)

Technology: Spark Structured Streaming
Producer Delay (Send next message): 0ms
Full data set (qty): 8760
Processed values (qty): 8646
Number of tests performed: 10
Start: Timestamp from Producer
End: Timestamp from Consumer
Unit: The results are given in seconds

Spark median values

End Subtract Start: 6.662100000000001

Spark standard deviation

End Subtract Start: 1.091002910061389
Lower Bound: 3.310087187002972
Upper Bound: 9.856104647371305
Number of data in the std range: 8646
Number of data outside the std range: 0

Spark interquartile range

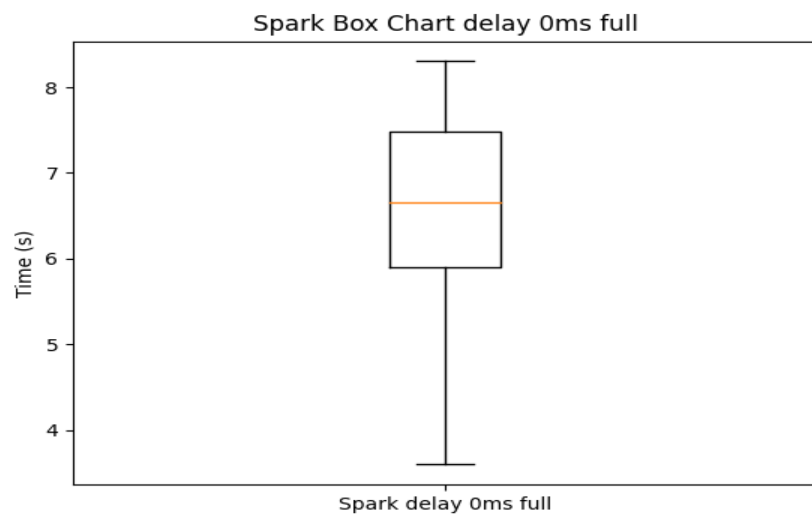
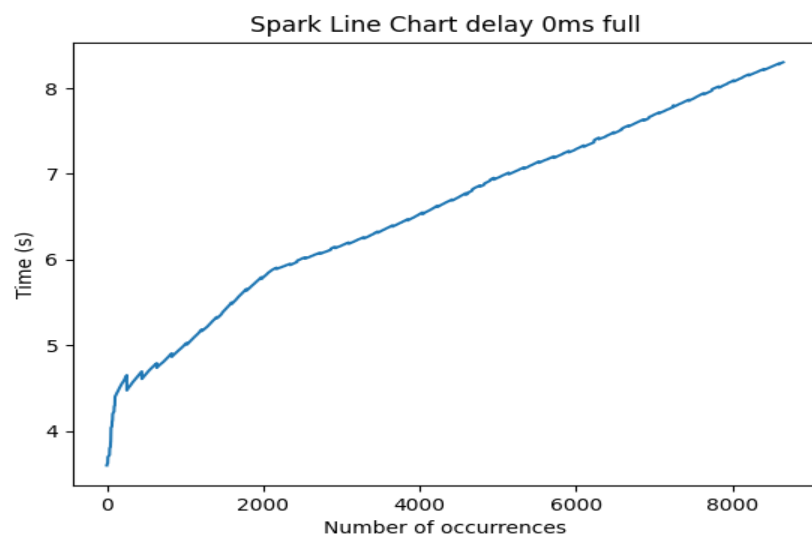
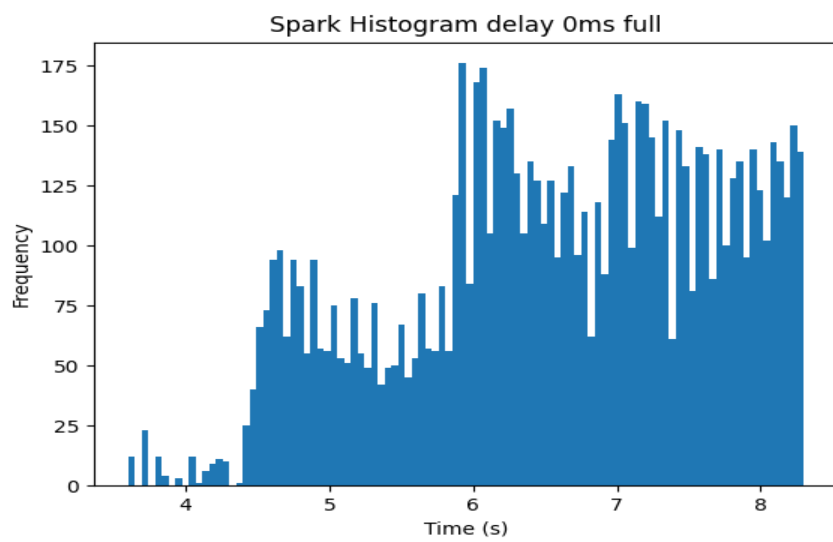
End Subtract Start: 1.5850249999999999

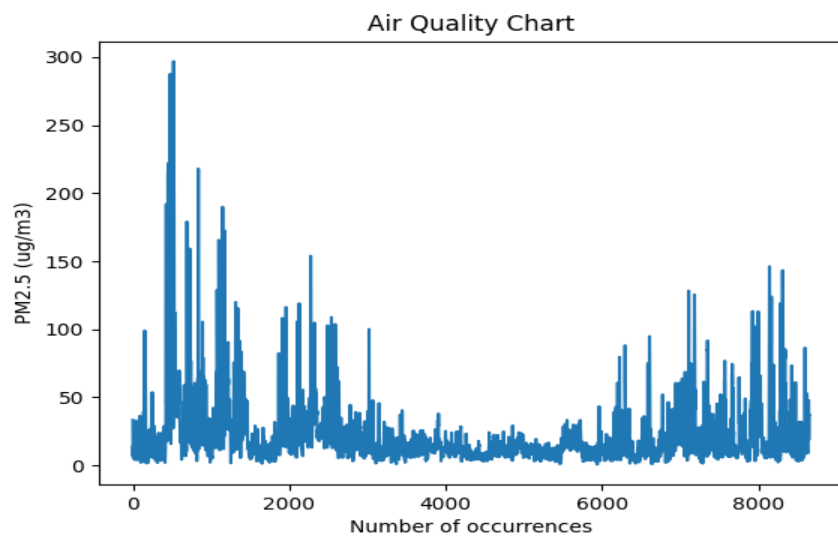
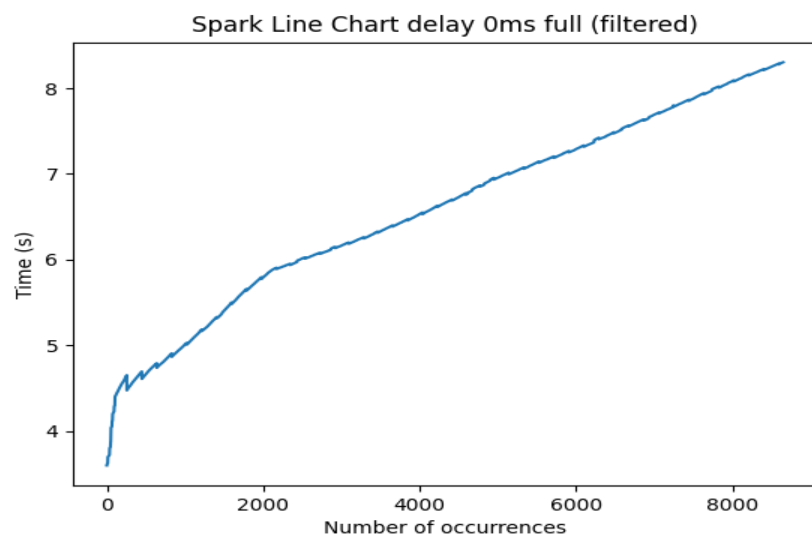
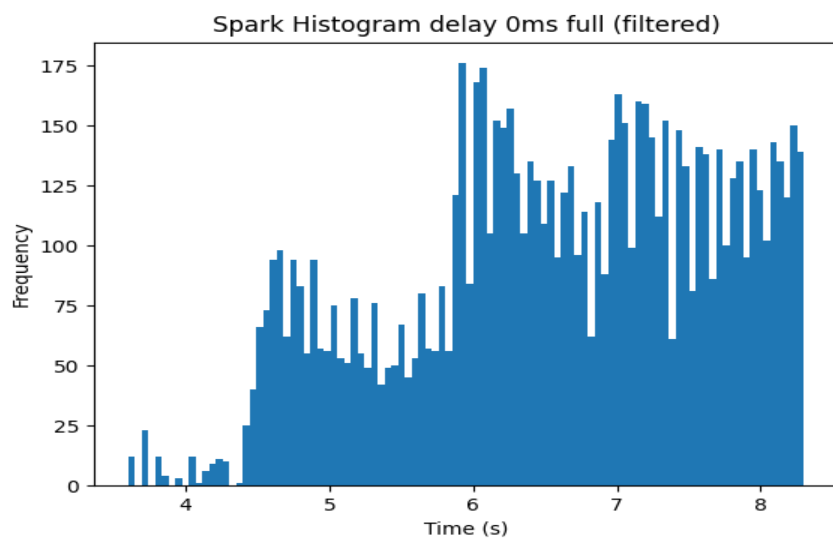
Spark mean

End Subtract Start: 6.583095917187139

Average time for each sample

6.38599306037474	8.985836109183436	5.512386421466574
6.199196275734443	6.54589301411057	6.563030303030303
6.233072403423549	6.779739764052741	6.784357275040481
5.841454545454545		





Spark test setup (sparkDelay0Half)

Technology: Spark Structured Streaming
Producer Delay (Send next message): 0ms
Full data set (qty): 4380
Processed values (qty): 4313
Number of tests performed: 10
Start: Timestamp from Producer
End: Timestamp from Consumer
Unit: The results are given in seconds

Spark median values

End Subtract Start: 4.9022

Spark standard deviation

End Subtract Start: 0.5988743702616673
Lower Bound: 3.072662282212911
Upper Bound: 6.665908503782915
Number of data in the std range: 4300
Number of data outside the std range: 13

Spark interquartile range

End Subtract Start: 0.9578000000000007

Spark mean

End Subtract Start: 4.869285392997913

Average time for each sample

4.847940644562949	5.132411082773012	4.781291908184558
4.417317412473916	4.734175052167865	5.688908648272664
4.211232552747507	5.049682123811732	5.357816369116624
4.472078135868305		

