



# **NATIONAL COMMUNICATIONS AUTHORITY**

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## **QUALITY OF SERVICE TEST RESULTS - 2020 THIRD QUARTER**

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## INTRODUCTION

In pursuance of obligations of the 3G Cellular Mobile Licence of Telecommunication Operators, the consumer perspective of quality of service are tested to ensure the compliance of Operators to the obligations on service quality to the user.

This First Quarter Monitoring Report highlights the Voice, Voice Quality, Data and 3G Coverage compliance statuses of all four (4) Mobile Network Operators in nine (9) Regions with regards to parameters outlined in their Licences. The Regions monitored during this period were the Western, Western North, Bono, Bono East, Ahafo, Oti, Volta, Upper East and Upper West Regions.

Definition of KPIs measured:

- Call Setup Time is a measure of the time it takes to setup a voice call. It is how long it takes to hear a ring back tone after initiating a call. It is measured in seconds. Threshold for compliance is over 95% of Call Setup Time measurements being less than 10 seconds.
- Voice Quality (Mean Opinion Score) is a measure of the perception of the audio quality of the conversation on a call. The MOS Score scale ranges from 1 to 5 with 1 being poor and 5 being excellent audio quality. Threshold for compliance is an average of all Voice Quality (MOS) measurements being greater than 3.5.
- Data Throughput is a measure of the rate of data transfer. It measures how fast data is transferred from a file transfer protocol (ftp) server to a mobile device. It is measured in kilobits per second (kbps) and the threshold for compliance is over 90% of all Data Throughput measurements being greater than or equal to 256kbps.
- 3G Coverage is an assessment of whether an MNO has 3G presence in a district capital or not. This is done by measuring the downlink signal level, Received Signal Code Power (RSCP). Unit of measurement is the decibel-milliwatts (dBm) and threshold for compliance is an average of all measured RSCP levels being greater than or equal to -105dBm.

The details of the report are as below:

# GLO RESULTS

## Voice Test (CST)

### Volta Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time (<10 sec) |       |       |       | Compliance Status |
|------------------|--|-------|-------|-------|-------------------|
|                  | Day 1  | Day 2 | Day 3 | Day 4 |                   |
| Adidome          | 06.55  | 09.48 | 10.15 | 15.71 | Pass              |
| Battor           | No 3G Coverage   |       |       |       | -                 |
| Dzodze           | No 3G Coverage   |       |       |       | -                 |
| Ho               | 09.98  | 09.20 | 16.82 | 13.05 | Pass              |
| Sogakope         | 09.54  | 04.75 | 06.67 | 07.19 | Pass              |

### Oti Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time (<10 sec) |       |       |       | Compliance Status |
|------------------|--|-------|-------|-------|-------------------|
|                  | Day 1  | Day 2 | Day 3 | Day 4 |                   |
| Chinderi         | No 3G Coverage   |       |       |       |                   |
| Dambai           |  |       |       |       |                   |
| Ketekrachi       |  |       |       |       |                   |

### Upper West Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time (<10 sec) |       |       |       | Compliance Status |
|------------------|--|-------|-------|-------|-------------------|
|                  | Day 1  | Day 2 | Day 3 | Day 4 |                   |
| Funsi            | No 3G Coverage   |       |       |       |                   |
| Issa             |  |       |       |       |                   |
| Jirapa           |  |       |       |       |                   |
| Lawra            |  |       |       |       |                   |
| Nadowli          |  |       |       |       |                   |
| Nandom           |  |       |       |       |                   |

### Upper East Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time (<10 sec) |       |       |       | Compliance Status |
|------------------|--|-------|-------|-------|-------------------|
|                  | Day 1  | Day 2 | Day 3 | Day 4 |                   |
| Bongo            | No 3G Coverage   |       |       |       |                   |
| Fumbisi          |  |       |       |       |                   |
| Sandema          |  |       |       |       |                   |
| Tongo            |  |       |       |       |                   |
| Zebilla          |  |       |       |       |                   |
| Zuarungu         |  |       |       |       |                   |

**Bono Region**

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time<br>(<10 sec) |       |       |       | Compliance Status |
|------------------|---|-------|-------|-------|-------------------|
|                  | Day 1   | Day 2 | Day 3 | Day 4 |                   |
| Berekum          | No 3G Coverage  |       |       |       |                   |
| Dormaa Ahenkro   |   |       |       |       |                   |
| Jinijini         |   |       |       |       |                   |
| Nkrankwanta      |   |       |       |       |                   |
| Nsawkaw          |   |       |       |       |                   |
| Odomase          | 16.38   | 11.68 | 15.73 | 14.21 | Fail              |
| Sunyani          | 07.34   | 10.64 | 06.79 | 08.05 | Pass              |
| Wemfie           | No 3G Coverage  |       |       |       |                   |
| Wenchi           |   |       |       |       |                   |

**Ahafo Region**

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time<br>(<10 sec) |       |       |       | Compliance Status |
|------------------|---|-------|-------|-------|-------------------|
|                  | Day 1   | Day 2 | Day 3 | Day 4 |                   |
| Bechem           | No 3G Coverage  |       |       |       |                   |
| Duayaw Kwanta    |   |       |       |       |                   |
| Goaso            |   |       |       |       |                   |
| Hweddiem         |   |       |       |       |                   |
| Kenyasi          |   |       |       |       |                   |
| Kukuom           |   |       |       |       |                   |

**Bono East Region**

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time<br>(<10 sec) |       |       |       | Compliance Status |
|------------------|---|-------|-------|-------|-------------------|
|                  | Day 1   | Day 2 | Day 3 | Day 4 |                   |
| Atebubu          | No 3G Coverage  |       |       |       | -                 |
| Busunya          |   |       |       |       |                   |
| Jema             |   |       |       |       |                   |
| Kintampo         |   |       |       |       |                   |
| Nkoranza         |   |       |       |       |                   |
| Prang            |   |       |       |       |                   |
| Techiman         | 08.78   | 07.80 | 11.01 | 07.64 | Pass              |
| Yeji             | No 3G Coverage  |       |       |       | -                 |

**Western Region**

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time<br>(<10 sec) |       |                |       | Compliance Status |
|------------------|---|-------|----------------|-------|-------------------|
|                  | Day 1   | Day 2 | Day 3          | Day 4 |                   |
| Agona Nkwanta    | 06.28   | 05.02 | 05.43          | 04.72 | Pass              |
| Bogoso           | No 3G Coverage  |       |                |       |                   |
| Daboase          | 11.44   | 06.02 | No 3G Coverage | 19.01 | Pass              |

|                |                |       |       |       |      |
|----------------|----------------|-------|-------|-------|------|
| Half Assini    | No 3G Coverage |       |       |       |      |
| Mpohor         | 09.17          | 16.55 | 27.15 | 15.17 | Pass |
| Nkroful        | No 3G Coverage |       |       |       |      |
| Shama          | 07.87          | 06.69 | 09.76 | 08.93 | Pass |
| Wassa Akropong | No 3G Coverage |       |       |       |      |

### Western North Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time<br>(<10 sec) |       |       |       | Compliance Status |
|------------------|---|-------|-------|-------|-------------------|
|                  | Day 1   | Day 2 | Day 3 | Day 4 |                   |
| Bibiani          | No 3G Coverage  |       |       |       | -                 |
| Dadieso          |   |       |       |       | -                 |
| Enchi            |   |       |       |       | -                 |
| Sefwi Akontombra |   |       |       |       | -                 |
| Sefwi Bodi       |   |       |       |       | -                 |
| Sefwi Juaboso    |   |       |       |       | -                 |
| Sefwi Wiawso     |   |       |       |       | -                 |

## Voice Quality (MOS)

### Volta Region

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Adidome          | 02.42                  | 02.56 | 02.36 | 02.52 | Fail              |
| Battor           | No 3G Coverage         |       |       |       |                   |
| Dzodze           |                        |       |       |       |                   |
| Ho               | 03.29                  | 02.50 | 02.29 | 02.37 | Fail              |
| Sogakope         | 02.62                  | 02.91 | 02.89 | 02.87 | Fail              |

### Oti Region

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Chinderi         | No 3G Coverage         |       |       |       |                   |
| Dambai           |                        |       |       |       |                   |
| Ketekrachi       |                        |       |       |       |                   |

**Upper West Region**

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Funsi            | No 3G Coverage         |       |       |       |                   |
| Issa             |                        |       |       |       |                   |
| Jirapa           |                        |       |       |       |                   |
| Lawra            |                        |       |       |       |                   |
| Nadowli          |                        |       |       |       |                   |
| Nandom           |                        |       |       |       |                   |

**Upper East Region**

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Bongo            | No 3G Coverage         |       |       |       |                   |
| Fumbisi          |                        |       |       |       |                   |
| Sandema          |                        |       |       |       |                   |
| Tongo            |                        |       |       |       |                   |
| Zebilla          |                        |       |       |       |                   |
| Zuarungu         |                        |       |       |       |                   |

**Bono Region**

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Berekum          | No 3G Coverage         |       |       |       |                   |
| Dormaa Ahenkro   |                        |       |       |       |                   |
| Jinijini         |                        |       |       |       |                   |
| Nkrankwanta      |                        |       |       |       |                   |
| Nsawkaw          |                        |       |       |       |                   |
| Odomase          | 01.01                  | 01.01 | 01.01 | 01.01 | Fail              |
| Sunyani          | 01.01                  | 01.01 | 01.01 | 01.01 | Fail              |
| Wemfie           | No 3G Coverage         |       |       |       |                   |

**Ahafo Region**

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Bechem           | No 3G Coverage         |       |       |       |                   |
| Duayaw Kwanta    |                        |       |       |       |                   |
| Goaso            |                        |       |       |       |                   |
| Hweddiem         |                        |       |       |       |                   |
| Kenyasi          |                        |       |       |       |                   |
| Kukuom           |                        |       |       |       |                   |

### Bono East Region

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Atebubu          | No 3G Coverage         |       |       |       | -                 |
| Busunya          |                        |       |       |       |                   |
| Jema             |                        |       |       |       |                   |
| Kintampo         |                        |       |       |       |                   |
| Nkoranza         |                        |       |       |       |                   |
| Prang            |                        |       |       |       |                   |
| Techiman         | 03.23                  | 03.25 | 03.22 | 03.24 | Fail              |
| Yeji             | No 3G Coverage         |       |       |       | -                 |

### Western Region

| District Capital | Average MOS<br>(> 3.5) |         |       |       | Compliance Status |
|------------------|------------------------|---------|-------|-------|-------------------|
|                  | Day 1                  | Day 2   | Day 3 | Day 4 |                   |
| Agona Nkwanta    | 02.72                  | 02.69   | 02.69 | 02.71 | Fail              |
| Bogoso           | No 3G Coverage         |         |       |       |                   |
| Daboase          | 01.68                  | No Data | 02.03 | 02.06 | -                 |
| Half Assini      | No 3G Coverage         |         |       |       |                   |
| Mpohor           | 01.79                  | 01.87   | 01.09 | 01.62 | Fail              |
| Nkroful          | No 3G Coverage         |         |       |       |                   |
| Shama            | 02.68                  | 02.63   | 02.68 | 02.73 | Fail              |
| Wassa Akropong   | No 3G Coverage         |         |       |       |                   |

### Western North Region

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Bibiani          | No 3G Coverage         |       |       |       | -                 |
| Dadieso          |                        |       |       |       | -                 |
| Enchi            |                        |       |       |       | -                 |
| Sefwi Akontombra |                        |       |       |       | -                 |
| Sefwi Bodi       |                        |       |       |       | -                 |
| Sefwi Juaboso    |                        |       |       |       | -                 |
| Sefwi Wiawso     |                        |       |       |       | -                 |

## 3G Data

### Volta Region

| District Capital | Average Data Throughput $\geq$ 256kbps<br>( $>$ 90%) |                |         |         | Compliance Status |
|------------------|--|----------------|---------|---------|-------------------|
|                  | Day 1  | Day 2          | Day 3   | Day 4   |                   |
| Adidome          | 92.00%   | 100.00%        | 66.67%  | 100.00% | Pass              |
| Battor           | No 3G Coverage                                       |                |         |         | -                 |
| Dzodze           |  |                |         |         | -                 |
| Ho               | 100.00%  | No 3G Coverage | 100.00% | 98.36%  | Pass              |
| Sogakope         | 82.61%   | 100.00%        | 100.00% | 100.00% | Pass              |

### Oti Region

| District Capital | Average Data Throughput $\geq$ 256kbps<br>( $>$ 90%) |       |       |       | Compliance Status |
|------------------|--|-------|-------|-------|-------------------|
|                  | Day 1  | Day 2 | Day 3 | Day 4 |                   |
| Chinderi         | No 3G Coverage                                       |       |       |       |                   |
| Dambai           |  |       |       |       |                   |
| Ketekrachi       |  |       |       |       |                   |

### Upper West Region

| District Capital | Average Data Throughput $\geq$ 256kbps<br>( $>$ 90%) |       |       |       | Compliance Status |
|------------------|--|-------|-------|-------|-------------------|
|                  | Day 1  | Day 2 | Day 3 | Day 4 |                   |
| Funsi            | No 3G Coverage                                       |       |       |       |                   |
| Issa             |  |       |       |       |                   |
| Jirapa           |  |       |       |       |                   |
| Lawra            |  |       |       |       |                   |
| Nadowli          |  |       |       |       |                   |
| Nandom           |  |       |       |       |                   |

### Upper East Region

| District Capital | Average Data Throughput $\geq$ 256kbps<br>( $>$ 90%) |       |       |       | Compliance Status |
|------------------|--|-------|-------|-------|-------------------|
|                  | Day 1  | Day 2 | Day 3 | Day 4 |                   |
| Bongo            | No 3G Coverage                                       |       |       |       |                   |
| Fumbisi          |  |       |       |       |                   |
| Sandema          |  |       |       |       |                   |
| Tongo            |  |       |       |       |                   |
| Zebilla          |  |       |       |       |                   |
| Zuarungu         |  |       |       |       |                   |



### Bono Region

| District Capital | Average Data Throughput $\geq$ 256kbps<br>( $>$ 90%) |         |        |        | Compliance Status |
|------------------|--|---------|--------|--------|-------------------|
|                  | Day 1  | Day 2   | Day 3  | Day 4  |                   |
| Berekum          | No 3G Coverage                                       |         |        |        |                   |
| Dormaa Ahenkro   |  |         |        |        |                   |
| Jinijini         |  |         |        |        |                   |
| Nkrankwanta      |  |         |        |        |                   |
| Nsawkaw          |  |         |        |        |                   |
| Odomase          | 84.38%   | 81.82%  | 97.56% | 89.29% | Pass              |
| Sunyani          | 100.00%  | No Data | 82.35% | 70.00% | Pass              |
| Wemfie           | No 3G Coverage                                       |         |        |        |                   |

### Ahafo Region

| District Capital | Average Data Throughput $\geq$ 256kbps<br>( $>$ 90%) |       |       |       | Compliance Status |
|------------------|--|-------|-------|-------|-------------------|
|                  | Day 1  | Day 2 | Day 3 | Day 4 |                   |
| Bechem           | No 3G Coverage                                       |       |       |       |                   |
| Duayaw Kwanta    |  |       |       |       |                   |
| Goaso            |  |       |       |       |                   |
| Hweddiem         |  |       |       |       |                   |
| Kenyasi          |  |       |       |       |                   |
| Kukuom           |  |       |       |       |                   |
|                  |  |       |       |       |                   |

### Bono East Region

| District Capital | Average Data Throughput $\geq$ 256kbps<br>( $>$ 90%) |         |         |         | Compliance Status |
|------------------|--|---------|---------|---------|-------------------|
|                  | Day 1  | Day 2   | Day 3   | Day 4   |                   |
| Atebubu          | No 3G Coverage                                       |         |         |         | -                 |
| Busunya          |  |         |         |         |                   |
| Jema             |  |         |         |         |                   |
| Kintampo         |  |         |         |         |                   |
| Nkoranza         |  |         |         |         |                   |
| Prang            |  |         |         |         |                   |
| Techiman         | 100.00%  | 100.00% | 100.00% | 100.00% | Pass              |
| Yeji             | No 3G Coverage                                       |         |         |         | -                 |

### Western Region

| District Capital | Average Data Throughput $\geq$ 256kbps<br>( $>90\%$ ) |         |         |         | Compliance Status |
|------------------|---|---------|---------|---------|-------------------|
|                  | Day 1   | Day 2   | Day 3   | Day 4   |                   |
| Agona Nkwanta    | 100.00%   | 100.00% | 100.00% | 100.00% | Pass              |
| Bogoso           | No Successful Data Session                            |         |         |         |                   |
| Daboase          |   |         |         |         |                   |
| Half Assini      |   |         |         |         |                   |
| Mpohor           |   |         |         |         |                   |
| Nkroful          |   |         |         |         |                   |
| Shama            | 100.00%   | 100.00% | 100.00% | 95.08%  | Pass              |
| Wassa Akropong   | No Successful Data Session                            |         |         |         |                   |

### Western North Region

| District Capital | Average Data Throughput $\geq$ 256kbps<br>( $>90\%$ ) |       |       |       | Compliance Status |
|------------------|---|-------|-------|-------|-------------------|
|                  | Day 1   | Day 2 | Day 3 | Day 4 |                   |
| Bibiani          | No 3G Coverage  |       |       |       | -                 |
| Dadieso          |   |       |       |       | -                 |
| Enchi            |   |       |       |       | -                 |
| Sefwi Akontombra |   |       |       |       | -                 |
| Sefwi Bodi       |   |       |       |       | -                 |
| Sefwi Juaboso    |   |       |       |       | -                 |
| Sefwi Wiawso     |   |       |       |       | -                 |

## 3G Coverage Test

### Volta Region

| District Capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |         |         |         | Compliance Status |
|------------------|---|---------|---------|---------|-------------------|
|                  | Day 1                                     | Day 2   | Day 3   | Day 4   |                   |
| Adidome          | -113.95                                   | -114.21 | -114.71 | -114.59 | Fail              |
| Battor           | -116.81                                   | -117.18 | -116.56 | -115.02 | Fail              |
| Dzodze           | No 3G Coverage                            |         |         |         | Fail              |
| Ho               | -84.29                                    | -88.93  | -85.83  | -86.89  | Pass              |
| Sogakope         | -95.96                                    | -103.58 | -103.30 | -101.23 | Pass              |

### Oti Region

| District capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |       |       |       | Compliance Status |
|------------------|---|-------|-------|-------|-------------------|
|                  | Day 1                                     | Day 2 | Day 3 | Day 4 |                   |
| Chinderi         | No 3G Coverage                            |       |       |       | Fail              |
| Dambai           |   |       |       |       | Fail              |
| Ketekrachi       |   |       |       |       | Fail              |

### Upper West Region

| District Capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |       |       |       | Compliance Status |
|------------------|---|-------|-------|-------|-------------------|
|                  | Day 1                                     | Day 2 | Day 3 | Day 4 |                   |
| Funsi            | No 3G Coverage                            |       |       |       | Fail              |
| Issa             |   |       |       |       | Fail              |
| Jirapa           |   |       |       |       | Fail              |
| Lawra            |   |       |       |       | Fail              |
| Nadowli          |   |       |       |       | Fail              |
| Nandom           |   |       |       |       | Fail              |

### Upper East Region

| District Capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |       |       |       | Compliance Status |
|------------------|---|-------|-------|-------|-------------------|
|                  | Day 1                                     | Day 2 | Day 3 | Day 4 |                   |
| Bongo            | No 3G Coverage                            |       |       |       | Fail              |
| Fumbisi          |   |       |       |       | Fail              |
| Sandema          |   |       |       |       | Fail              |
| Tongo            |   |       |       |       | Fail              |
| Zebilla          |   |       |       |       | Fail              |
| Zuarungu         |   |       |       |       | Fail              |

### Bono Region

| District Capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |         |         |         | Compliance Status |
|------------------|---|---------|---------|---------|-------------------|
|                  | Day 1                                     | Day 2   | Day 3   | Day 4   |                   |
| Berekum          | No 3G Coverage                            |         |         |         |                   |
| Dormaa Ahenkro   |   |         |         |         |                   |
| Jinijini         |   |         |         |         |                   |
| Nkrankwanta      |   |         |         |         |                   |
| Nsawkaw          |   |         |         |         |                   |
| Odomase          | -111.42                                   | -111.42 | -109.45 | -108.13 | Fail              |
| Sunyani          | -97.46                                    | -95.27  | -87.53  | -89.47  | Pass              |
| Wemfie           | No 3G Coverage                            |         |         |         |                   |

### Ahafo Region

| District Capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |                |         |                | Compliance Status |
|------------------|---|----------------|---------|----------------|-------------------|
|                  | Day 1                                     | Day 2          | Day 3   | Day 4          |                   |
| Bechem           | -118.02                                   | No 3G Coverage |         |                | Fail              |
| Duayaw Kwanta    | -110.35                                   | -109.56        | -112.01 | -111.40        | Fail              |
| Goaso            | No 3G Coverage                            | -54.52         | -58.57  | -68.30         | Pass              |
| Hweddiem         | No 3G Coverage                            | -72.21         | -76.31  | No 3G Coverage | Pass              |
| Kenyasi          | No 3G Coverage                            |                |         |                | Fail              |
| Kukuom           |   |                |         |                | Fail              |

**Bono East Region**

| District Capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |        |        |        | Compliance Status |
|------------------|---|--------|--------|--------|-------------------|
|                  | Day 1                                     | Day 2  | Day 3  | Day 4  |                   |
| Atebubu          | No 3G Coverage                            |        |        |        | Fail              |
| Busunya          |   |        |        |        | Fail              |
| Jema             |   |        |        |        | Fail              |
| Kintampo         |   |        |        |        | Fail              |
| Nkoranza         |   |        |        |        | Fail              |
| Prang            |   |        |        |        | Fail              |
| Techiman         | -93.26                                    | -94.29 | -94.76 | -93.67 | Pass              |
| Yeji             | No 3G Coverage                            |        |        |        | Fail              |

**Western Region**

| District Capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |                |                |                | Compliance Status |
|------------------|---|----------------|----------------|----------------|-------------------|
|                  | Day 1                                     | Day 2          | Day 3          | Day 4          |                   |
| Agona Nkwanta    | -98.47                                    | -99.52         | -97.83         | -98.22         | Pass              |
| Bogoso           | No 3G Coverage                            |                |                |                | Fail              |
| Daboase          | -114.52                                   | -113.52        | -114.03        | -114.82        | Fail              |
| Half Assini      | No 3G Coverage                            | -107.60        | No 3G Coverage |                | Fail              |
| Mpohor           | -115.05                                   | No Data        | -114.56        | -115.33        | -                 |
| Nkroful          | No 3G Coverage                            |                | -121.00        | No 3G Coverage | Fail              |
| Shama            | -97.58                                    | -100.30        | -100.54        | -102.50        | Pass              |
| Wassa Akropong   | -75.55                                    | No 3G Coverage |                |                | Pass              |

**Western North Region**

| District Capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |       |       |       | Compliance Status |
|------------------|---|-------|-------|-------|-------------------|
|                  | Day 1                                     | Day 2 | Day 3 | Day 4 |                   |
| Bibiani          | No 3G Coverage                            |       |       |       | Fail              |
| Dadieso          |   |       |       |       | Fail              |
| Enchi            |   |       |       |       | Fail              |
| Sefwi Akontombra |   |       |       |       | Fail              |
| Sefwi Bodi       |   |       |       |       | Fail              |
| Sefwi Juaboso    |   |       |       |       | Fail              |
| Sefwi Wiawso     |   |       |       |       | Fail              |

# AIRTELTIGO RESULTS

## Voice Test (CST)

### Volta Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time (<10 sec) |       |       |       | Compliance Status |
|------------------|--|-------|-------|-------|-------------------|
|                  | Day 1  | Day 2 | Day 3 | Day 4 |                   |
| Adidome          | 11.45  | 16.11 | 07.12 | 16.06 | Pass              |
| Battor           | 04.60  | 04.61 | 04.58 | 04.82 | Pass              |
| Dzodze           | No Data  |       |       |       |                   |
| Ho               | 07.29  | 05.76 | 05.71 | 08.70 | Pass              |
| Sogakope         | 06.30  | 06.18 | 05.16 | 05.46 | Pass              |

### Oti Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time (<10 sec) |       |       |       | Compliance Status |
|------------------|--|-------|-------|-------|-------------------|
|                  | Day 1  | Day 2 | Day 3 | Day 4 |                   |
| Chinderi         | No 3G Coverage   |       |       |       | -                 |
| Dambai           | 06.76  | 06.80 | 08.01 | 06.11 | Pass              |
| Kete-Krachi      | 04.70  | 04.70 | 04.77 | 04.81 | Pass              |

### Bono East Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time (<10 sec) |       |       |       | Compliance Status |
|------------------|--|-------|-------|-------|-------------------|
|                  | Day 1  | Day 2 | Day 3 | Day 4 |                   |
| Atebubu          | 05.36  | 05.53 | 05.70 | 04.60 | Pass              |
| Busunya          | 04.92  | 06.80 | 07.82 | 04.55 | Pass              |
| Jema             | 06.21  | 04.43 | 04.54 | 04.50 | Pass              |
| Kintampo         | 07.40  | 05.91 | 05.74 | 05.09 | Pass              |
| Nkoranza         | 05.93  | 05.20 | 07.91 | 06.34 | Pass              |
| Prang            | 05.15  | 04.98 | 05.97 | 06.65 | Pass              |
| Techiman         | 08.01  | 06.40 | 06.10 | 07.63 | Pass              |
| Yeji             | 04.69  | 04.42 | 04.53 | 05.12 | Pass              |

### Bono Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time (<10 sec) |       |       |       | Compliance Status |
|------------------|--|-------|-------|-------|-------------------|
|                  | Day 1  | Day 2 | Day 3 | Day 4 |                   |
| Berekum          | 07.35  | 05.07 | 09.10 | 05.81 | Pass              |
| Dormaa Ahenkro   | 10.65  | 06.72 | 06.21 | 07.10 | Pass              |
| Jinijini         | No Data  |       |       |       |                   |
| Nkrankwanta      | 04.50  | 04.80 | 04.61 | 05.48 | Pass              |
| Nsawkaw          | 05.05  | 04.70 | 04.57 | 04.71 | Pass              |
| Odomase          | 07.01  | 04.91 | 07.84 | 05.83 | Pass              |

|         |       |       |       |              |      |
|---------|-------|-------|-------|--------------|------|
| Sunyani | 07.90 | 05.55 | 05.50 | 07.24        | Pass |
| Wemfie  | 05.94 | 04.66 | 05.40 | <b>10.04</b> | Pass |
| Wenchi  | 05.00 | 04.90 | 04.96 | 04.60        | Pass |

### Ahafo Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time<br>(<10 sec) |       |       |       | Compliance Status |
|------------------|---|-------|-------|-------|-------------------|
|                  | Day 1   | Day 2 | Day 3 | Day 4 |                   |
| Bechem           | 06.20   | 06.00 | 05.20 | 05.80 | Pass              |
| Duayaw Kwanta    | 05.30   | 06.70 | 05.20 | 05.30 | Pass              |
| Goaso            | 06.50   | 06.40 | 06.70 | 06.30 | Pass              |
| Hweddiem         | 05.30   | 05.60 | 06.90 | 07.50 | Pass              |
| Kenyasi          | 07.10   | 05.50 | 05.80 | 05.50 | Pass              |
| Kukuom           | 05.40   | 05.40 | 08.10 | 06.40 | Pass              |

### Western Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time<br>(<10 sec) |       |       |       | Compliance Status |
|------------------|---|-------|-------|-------|-------------------|
|                  | Day 1   | Day 2 | Day 3 | Day 4 |                   |
| Agona Nkwanta    | 05.53   | 07.10 | 05.94 | 05.81 | Pass              |
| Bogoso           | 05.10   | 05.20 | 05.52 | 05.42 | Pass              |
| Daboase          | 06.06   | 05.03 | 05.67 | 04.96 | Pass              |
| Half Assini      | 04.70   | 04.80 | 04.81 | 05.67 | Pass              |
| Mpohor           | 04.71   | 04.66 | 04.78 | 04.74 | Pass              |
| Nkroful          | 05.08   | 05.28 | 04.90 | 04.90 | Pass              |
| Shama            | 05.25   | 05.06 | 05.34 | 05.03 | Pass              |
| Wassa Akropong   | 06.86   | 06.08 | 07.99 | 05.58 | Pass              |

### Upper East Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time<br>(<10 sec) |              |              |       | Compliance Status |
|------------------|---|--------------|--------------|-------|-------------------|
|                  | Day 1   | Day 2        | Day 3        | Day 4 |                   |
| Bongo            | 08.62   | 05.87        | 06.98        | 08.00 | Pass              |
| Fumbisi          | 06.07   | 06.15        | <b>12.98</b> | 06.46 | Pass              |
| Sandema          | 05.72   | 05.74        | 04.80        | 07.41 | Pass              |
| Tongo            | 07.61   | <b>13.53</b> | <b>12.63</b> | 09.83 | Pass              |
| Zebilla          | <b>10.32</b>  | 06.68        | 05.21        | 05.53 | Pass              |
| Zuarungu         | <b>11.31</b>  | 08.38        | <b>12.71</b> | 09.82 | Pass              |

### Upper West Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time<br>(<10 sec) |       |       |       | Compliance Status |
|------------------|---|-------|-------|-------|-------------------|
|                  | Day 1   | Day 2 | Day 3 | Day 4 |                   |
| Funsi            | 08.00   | 06.00 | 06.00 | 07.00 | Pass              |
| Issa             | No 3G Coverage  |       |       |       | -                 |
| Jirapa           | 8.10  | 9.95  | 8.57  | 10.31 | Pass              |
| Lawra            | 8.33  | 7.47  | 5.98  | 12.35 | Pass              |
| Nadowli          | 11.98   | 12.03 | 12.87 | 8.11  | Pass              |
| Nandom           | 10.01   | 6.03  | 8.19  | 8.71  | Pass              |

### Western North Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time<br>(<10 sec) |       |       |       | Compliance Status |
|------------------|---|-------|-------|-------|-------------------|
|                  | Day 1   | Day 2 | Day 3 | Day 4 |                   |
| Bibiani          | 05.06   | 05.00 | 06.28 | 05.20 | Pass              |
| Dadieso          | 05.83   | 05.40 | 05.48 | 05.23 | Pass              |
| Enchi            | 04.78   | 04.61 | 20.06 | 04.60 | Pass              |
| Sefwi Akontombra | 05.33   | 04.63 | 04.97 | 05.12 | Pass              |
| Sefwi Bodi       | 05.40   | 05.32 | 05.25 | 04.95 | Pass              |
| Sefwi Juaboso    | 05.05   | 04.81 | 05.58 | 04.91 | Pass              |
| Sefwi Wiawso     | 05.46   | 04.76 | 05.24 | 05.01 | Pass              |

## Voice Test (MOS)

### Volta Region

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Adidome          | 3.15                   | 2.79  | 3.11  | 2.97  | Fail              |
| Battor           | 3.79                   | 3.73  | 3.76  | 3.77  | Pass              |
| Dzodze           | No Data                |       |       |       |                   |
| Ho               | 3.67                   | 3.73  | 3.68  | 3.65  | Pass              |
| Sogakope         | 3.71                   | 3.69  | 3.71  | 3.64  | Pass              |

### Oti Region

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Chinderi         | No 3G Coverage         |       |       |       |                   |
| Dambai           | 3.04                   | 2.99  | 2.87  | 3.10  | Fail              |
| Kete-Krachi      | 3.75                   | 3.78  | 3.77  | 3.80  | Pass              |

**Bono East Region**

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Atebubu          | 3.75                   | 3.64  | 3.66  | 3.79  | Pass              |
| Busunya          | 3.80                   | 3.79  | 3.78  | 3.79  | Pass              |
| Jema             | 3.75                   | 3.77  | 3.75  | 3.77  | Pass              |
| Kintampo         | 3.75                   | 3.72  | 3.67  | 3.73  | Pass              |
| Nkoranza         | 3.69                   | 3.70  | 3.67  | 3.68  | Pass              |
| Prang            | 3.78                   | 3.75  | 3.82  | 3.79  | Pass              |
| Techiman         | 3.78                   | 3.76  | 3.78  | 3.79  | Pass              |
| Yeji             | 3.81                   | 3.81  | 3.81  | 3.79  | Pass              |

**Bono Region**

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Berekum          | 3.55                   | 3.55  | 1.79  | 3.53  | Pass              |
| Dormaa Ahenkro   | 3.61                   | 3.75  | 3.64  | 3.66  | Pass              |
| Jinijini         | No Data                |       |       |       |                   |
| Nkrankwanta      | 3.71                   | 3.77  | 3.71  | 3.46  | Pass              |
| Nsawkaw          | 3.82                   | 3.81  | 3.80  | 3.81  | Pass              |
| Odomase          | 3.74                   | 3.72  | 3.75  | 3.77  | Pass              |
| Sunyani          | 3.73                   | 3.80  | 3.77  | 3.78  | Pass              |
| Wemfie           | 3.37                   | 3.80  | 3.55  | 3.24  | Pass              |
| Wenchi           | 3.76                   | 3.72  | 3.74  | 3.76  | Pass              |

**Ahafo Region**

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Bechem           | 3.76                   | 3.75  | 3.78  | 3.78  | Pass              |
| Duayaw Kwanta    | 3.75                   | 3.77  | 3.78  | 3.75  | Pass              |
| Goaso            | 3.62                   | 3.37  | 3.37  | 3.22  | Pass              |
| Hweddiem         | 3.53                   | 3.53  | 3.48  | 3.53  | Pass              |
| Kenyasi          | 3.62                   | 3.58  | 3.56  | 3.56  | Pass              |
| Kukuom           | 3.73                   | 3.67  | 3.69  | 3.65  | Pass              |

**Western Region**

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Agona Nkwanta    | 3.73                   | 3.73  | 3.70  | 3.75  | Pass              |
| Bogoso           | 3.75                   | 3.74  | 3.75  | 3.76  | Pass              |



| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Daboase          | 3.77                   | 3.79  | 3.77  | 3.79  | Pass              |
| Half Assini      | 3.81                   | 3.80  | 3.80  | 3.80  | Pass              |
| Mpohor           | 3.82                   | 3.81  | 3.67  | 3.81  | Pass              |
| Nkroful          | 3.80                   | 3.81  | 3.81  | 3.81  | Pass              |
| Shama            | 3.76                   | 3.79  | 3.78  | 3.78  | Pass              |
| Wassa Akropong   | 3.71                   | 3.67  | 3.70  | 3.67  | Pass              |

### Upper East Region

| District Capital | Average MOS<br>(> 3.5) |             |             |             | Compliance Status |
|------------------|------------------------|-------------|-------------|-------------|-------------------|
|                  | Day 1                  | Day 2       | Day 3       | Day 4       |                   |
| Bongo            | 3.67                   | 3.62        | 3.69        | 3.68        | Pass              |
| Fumbisi          | <b>3.42</b>            | 3.61        | <b>3.50</b> | 3.66        | Pass              |
| Sandema          | 3.52                   | <b>3.32</b> | <b>3.42</b> | 3.76        | Pass              |
| Tongo            | 3.63                   | 3.56        | 3.75        | 3.64        | Pass              |
| Zebilla          | 3.76                   | 3.69        | 3.71        | 3.68        | Pass              |
| Zuarungu         | 3.59                   | 3.51        | 3.53        | <b>3.50</b> | Pass              |

### Upper West Region

| District Capital | Average MOS<br>(> 3.5) |             |             |             | Compliance Status |
|------------------|------------------------|-------------|-------------|-------------|-------------------|
|                  | Day 1                  | Day 2       | Day 3       | Day 4       |                   |
| Funsi            | <b>3.30</b>            | <b>3.48</b> | <b>3.20</b> | <b>3.40</b> | <b>Fail</b>       |
| Issa             | No 3G Coverage         |             |             |             | -                 |
| Jirapa           | <b>2.30</b>            | <b>2.37</b> | <b>2.12</b> | <b>1.85</b> | <b>Fail</b>       |
| Lawra            | <b>2.77</b>            | <b>2.78</b> | <b>3.26</b> | <b>2.44</b> | <b>Fail</b>       |
| Nadowli          | <b>2.20</b>            | <b>2.32</b> | <b>2.60</b> | <b>2.85</b> | <b>Fail</b>       |
| Nandom           | <b>2.97</b>            | <b>3.22</b> | <b>2.36</b> | <b>3.04</b> | <b>Fail</b>       |

### Western North Region

| District Capital | Average MOS<br>(> 3.5) |       |             |       | Compliance Status |
|------------------|------------------------|-------|-------------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3       | Day 4 |                   |
| Bibiani          | 3.78                   | 3.76  | 3.78        | 3.78  | Pass              |
| Dadieso          | 3.70                   | 3.73  | 3.59        | 3.61  | Pass              |
| Enchi            | 3.76                   | 3.76  | <b>3.31</b> | 3.80  | Pass              |
| Sefwi Akontombra | 3.70                   | 3.81  | 3.69        | 3.64  | Pass              |
| Sefwi Bodi       | 3.73                   | 3.80  | 3.71        | 3.63  | Pass              |
| Sefwi Juaboso    | 3.69                   | 3.78  | 3.67        | 3.72  | Pass              |
| Sefwi Wiawso     | 3.51                   | 3.69  | 3.58        | 3.57  | Pass              |

## 3G Coverage Test

### Volta Region

| District Capital | Average RSRP<br>(> -105dBm) |         |         |         | Compliance Status |
|------------------|-----------------------------|---------|---------|---------|-------------------|
|                  | Day 1                       | Day 2   | Day 3   | Day 4   |                   |
| Adidome          | -111.11                     | -116.47 | -105.21 | -102.55 | Pass              |
| Battor           | -91.65                      | -92.10  | -90.84  | -85.56  | Pass              |
| Dzodze           | No Data                     |         |         |         | -                 |
| Ho               | -94.12                      | -91.43  | -90.65  | -89.82  | Pass              |
| Sogakope         | -83.70                      | -85.31  | -83.30  | -84.29  | Pass              |

### Oti Region

| District Capital | Average RSRP<br>(> -105dBm) |        |        |        | Compliance Status |
|------------------|-----------------------------|--------|--------|--------|-------------------|
|                  | Day 1                       | Day 2  | Day 3  | Day 4  |                   |
| Chinderi         | No 3G Coverage              |        |        |        | Fail              |
| Dambai           | -89.41                      | -89.18 | -92.21 | -91.48 | Pass              |
| Kete-Krachi      | -82.90                      | -85.35 | -84.42 | -85.24 | Pass              |

### Bono East Region

| District Capital | Average RSCP<br>(≥ -105dBm) |        |        |        | Compliance Status |
|------------------|-----------------------------|--------|--------|--------|-------------------|
|                  | Day 1                       | Day 2  | Day 3  | Day 4  |                   |
| Atebubu          | -77.30                      | -80.04 | -77.83 | -78.91 | Pass              |
| Busunya          | -75.51                      | -76.61 | -77.38 | -75.78 | Pass              |
| Jema             | -83.72                      | -82.48 | -83.44 | -82.48 | Pass              |
| Kintampo         | -86.32                      | -84.74 | -86.68 | -85.56 | Pass              |
| Nkoranza         | -84.82                      | -85.86 | -84.29 | -84.95 | Pass              |
| Prang            | -73.43                      | -73.24 | -73.81 | -74.21 | Pass              |
| Techiman         | -83.57                      | -83.47 | -84.11 | -83.70 | Pass              |
| Yeji             | -85.23                      | -85.12 | -85.54 | -86.15 | Pass              |

### Bono Region

| District Capital | Average RSCP<br>(≥ -105dBm) |         |         |        | Compliance Status |
|------------------|-----------------------------|---------|---------|--------|-------------------|
|                  | Day 1                       | Day 2   | Day 3   | Day 4  |                   |
| Berekum          | -83.77                      | -86.77  | -88.89  | -88.06 | Pass              |
| Dormaa Ahenkro   | -91.64                      | -93.72  | -93.87  | -90.94 | Pass              |
| Jinijini         | -115.80                     | -110.67 | -102.53 | -89.96 | Pass              |
| Nkrankwanta      | -81.80                      | -82.49  | -83.87  | -81.60 | Pass              |
| Nsawkaw          | -77.30                      | -71.76  | -69.98  | -71.32 | Pass              |
| Odomase          | -87.08                      | -83.74  | -81.02  | -79.85 | Pass              |
| Sunyani          | -87.67                      | -78.86  | -78.81  | -79.81 | Pass              |
| Wemfie           | -78.48                      | -78.67  | -80.42  | -79.24 | Pass              |
| Wenchi           | -80.37                      | -78.97  | -79.78  | -79.00 | Pass              |

### Ahafo Region

| District Capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |        |        |         | Compliance Status |
|------------------|---|--------|--------|---------|-------------------|
|                  | Day 1                                     | Day 2  | Day 3  | Day 4   |                   |
| Bechem           | -89.11                                    | -92.26 | -89.11 | -88.41  | Pass              |
| Duayaw Kwanta    | -91.05                                    | -94.63 | -96.09 | -94.39  | Pass              |
| Goaso            | -91.52                                    | -90.32 | -91.55 | -95.43  | Pass              |
| Hweddiem         | -96.48                                    | -99.45 | -98.67 | -102.37 | Pass              |
| Kenyasi          | -97.76                                    | -97.43 | -97.08 | -97.09  | Pass              |
| Kukuom           | -89.32                                    | -91.80 | -89.91 | -90.04  | Pass              |

### Western Region

| District Capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |        |        |        | Compliance Status |
|------------------|---|--------|--------|--------|-------------------|
|                  | Day 1                                     | Day 2  | Day 3  | Day 4  |                   |
| Agona Nkwanta    | -94.26                                    | -95.59 | -93.69 | -93.25 | Pass              |
| Bogoso           | -78.16                                    | -81.19 | -81.14 | -80.53 | Pass              |
| Daboase          | -80.15                                    | -82.86 | -83.25 | -84.28 | Pass              |
| Half Assini      | -85.41                                    | -88.46 | -87.06 | -89.12 | Pass              |
| Mpohor           | -83.36                                    | -84.53 | -84.99 | -86.00 | Pass              |
| Nkroful          | -71.79                                    | -73.39 | -74.64 | -75.78 | Pass              |
| Shama            | -84.01                                    | -83.08 | -83.56 | -85.13 | Pass              |
| Wassa Akropong   | -93.87                                    | -91.24 | -89.40 | -88.82 | Pass              |

### Upper East Region

| District Capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |         |         |         | Compliance Status |
|------------------|---|---------|---------|---------|-------------------|
|                  | Day 1                                     | Day 2   | Day 3   | Day 4   |                   |
| Bongo            | -99.69                                    | -101.22 | -97.25  | -97.4   | Pass              |
| Fumbisi          | -75.06                                    | -79.06  | -73.61  | -73.89  | Pass              |
| Sandema          | -92.37                                    | -91.71  | -86.3   | -90.36  | Pass              |
| Tongo            | -88.14                                    | -94.05  | -86.85  | -92.07  | Pass              |
| Zebilla          | -83.69                                    | -85.39  | -86.41  | -85.22  | Pass              |
| Zuarungu         | -98.24                                    | -101.34 | -100.48 | -100.21 | Pass              |

### Upper West Region

| District Capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |         |         |         | Compliance Status |
|------------------|---|---------|---------|---------|-------------------|
|                  | Day 1                                     | Day 2   | Day 3   | Day 4   |                   |
| Funsi            | -72.75                                    | -70.58  | -80.91  | -79.96  | Pass              |
| Issa             | -119.91                                   | -121.00 | -120.22 | -101.27 | Pass              |
| Jirapa           | -82.35                                    | -83.81  | -81.71  | -83.91  | Pass              |
| Lawra            | -79.75                                    | -80.32  | -79.70  | -81.09  | Pass              |
| Nadowli          | -74.10                                    | -76.04  | -79.43  | -77.78  | Pass              |
| Nandom           | -84.42                                    | -92.75  | -83.56  | -97.31  | Pass              |

### Western North Region

| District Capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |        |        |        | Compliance Status |
|------------------|---|--------|--------|--------|-------------------|
|                  | Day 1                                     | Day 2  | Day 3  | Day 4  |                   |
| Bibiani          | -83.81                                    | -83.62 | -83.67 | -83.20 | Pass              |
| Dadieso          | -88.32                                    | -88.95 | -88.16 | -88.31 | Pass              |
| Enchi            | -82.87                                    | -83.91 | -82.82 | -83.25 | Pass              |
| Sefwi Akontombra | -79.93                                    | -81.97 | -82.44 | -82.86 | Pass              |
| Sefwi Bodi       | -79.15                                    | -78.12 | -78.65 | -85.04 | Pass              |
| Sefwi Juaboso    | -81.40                                    | -80.54 | -79.22 | -81.83 | Pass              |
| Sefwi Wiawso     | -83.89                                    | -82.61 | -83.00 | -83.12 | Pass              |

## 3G Data Test

### Volta Region

| District Capital | Average Data Throughput $\geq 256\text{kbps}$<br>( $> 90\%$ ) |         |         |               | Compliance Status |
|------------------|---|---------|---------|---------------|-------------------|
|                  | Day 1   | Day 2   | Day 3   | Day 4         |                   |
| Adidome          | No Data   | 100.00% | 100.00% | 100.00%       | Pass              |
| Battor           | 100.00%   | 100.00% | 100.00% | 100.00%       | Pass              |
| Dzodze           | <b>No 3G Coverage</b>   |         |         | <b>66.67%</b> | -                 |
| Ho               | 98.68%  | 100.00% | 100.00% | 100.00%       | Pass              |
| Sogakope         | 100.00%   | 100.00% | 100.00% | 100.00%       | Pass              |

### Oti Region

| District Capital | Average Data Throughput $\geq 256\text{kbps}$<br>( $> 90\%$ ) |         |         |         | Compliance Status |
|------------------|---|---------|---------|---------|-------------------|
|                  | Day 1   | Day 2   | Day 3   | Day 4   |                   |
| Chinderi         | <b>No 3G Coverage</b>   |         |         |         | -                 |
| Dambai           | 95.00%  | 100.00% | 100.00% | 100.00% | Pass              |
| Kete-Krachi      | 96.30%  | 100.00% | 100.00% | 100.00% | Pass              |

### Bono East Region

| District Capital | Average Data Throughput $\geq 256\text{kbps}$<br>( $>90\%$ ) |         |         |         | Compliance Status |
|------------------|--|---------|---------|---------|-------------------|
|                  | Day 1  | Day 2   | Day 3   | Day 4   |                   |
| Atebubu          | 96.67%   | 100.00% | 100.00% | 98.18%  | Pass              |
| Busunya          | 100.00%  | 100.00% | 100.00% | 100.00% | Pass              |
| Jema             | 100.00%  | 100.00% | 100.00% | 100.00% | Pass              |
| Kintampo         | 100.00%  | 100.00% | 100.00% | 100.00% | Pass              |
| Nkoranza         | 100.00%  | 100.00% | 100.00% | 100.00% | Pass              |
| Prang            | 100.00%  | 100.00% | 100.00% | 100.00% | Pass              |
| Techiman         | 100.00%  | 100.00% | 100.00% | 100.00% | Pass              |
| Yeji             | 100.00%  | 100.00% | 100.00% | 100.00% | Pass              |

### Bono Region

| District Capital | Average Data Throughput ≥ 256kbps<br>(> 90%) |         |         |         | Compliance Status |
|------------------|--|---------|---------|---------|-------------------|
|                  | Day 1  | Day 2   | Day 3   | Day 4   |                   |
| Berekum          | 100.00%                                      | 100.00% | 95.16%  | 93.65%  | Pass              |
| Dormaa Ahenkro   | <b>72.73%</b>                                | 100.00% | 100.00% | 90.48%  | Pass              |
| Jinijini         | <b>No Data</b>                               |         |         |         |                   |
| Nkrankwanta      | 100.00%                                      | 100.00% | 100.00% | 100.00% | Pass              |
| Nsawkaw          | 98.46%                                       | 100.00% | 100.00% | 100.00% | Pass              |
| Odomase          | 98.78%                                       | 100.00% | 100.00% | 100.00% | Pass              |
| Sunyani          | 98.31%                                       | 100.00% | 100.00% | 98.18%  | Pass              |
| Wemfie           | 100.00%                                      | 100.00% | 100.00% | 92.86%  | Pass              |
| Wenchi           | 98.72%                                       | 100.00% | 100.00% | 97.44%  | Pass              |

### Ahafo Region

| District Capital | Average Data Throughput ≥ 256kbps<br>(> 90%) |         |         |         | Compliance Status |
|------------------|--|---------|---------|---------|-------------------|
|                  | Day 1  | Day 2   | Day 3   | Day 4   |                   |
| Bechem           | <b>68.29%</b>                                | 97.30%  | 93.65%  | 97.67%  | Pass              |
| Duayaw Kwanta    | 100.00%                                      | 100.00% | 100.00% | 100.00% | Pass              |
| Goaso            | 96.88%                                       | 100.00% | 98.88%  | 100.00% | Pass              |
| Hweddiem         | 98.48%                                       | 100.00% | 97.87%  | 100.00% | Pass              |
| Kenyasi          | 100.00%                                      | 100.00% | 100.00% | 100.00% | Pass              |
| Kukuom           | 100.00%                                      | 97.67%  | 100.00% | 100.00% | Pass              |

### Western Region

| District Capital | Average Data Throughput ≥ 256kbps<br>(>90%) |               |         |               | Compliance Status |
|------------------|---|---------------|---------|---------------|-------------------|
|                  | Day 1                                       | Day 2         | Day 3   | Day 4         |                   |
| Agona Nkwanta    | 95.24%                                      | <b>85.19%</b> | 95.83%  | <b>87.50%</b> | Pass              |
| Bogoso           | 100.00%                                     | 100.00%       | 100.00% | 100.00%       | Pass              |
| Daboase          | 100.00%                                     | 100.00%       | 100.00% | 100.00%       | Pass              |
| Half Assini      | 100.00%                                     | 100.00%       | 100.00% | 100.00%       | Pass              |
| Mpohor           | 100.00%                                     | 100.00%       | 100.00% | 100.00%       | Pass              |
| Nkroful          | 100.00%                                     | 100.00%       | 100.00% | 100.00%       | Pass              |
| Shama            | 100.00%                                     | 100.00%       | 99.44%  | 99.16%        | Pass              |
| Wassa Akropong   | 100.00%                                     | 100.00%       | 100.00% | 100.00%       | Pass              |

### Upper East Region

| District Capital | Average Data Throughput ≥ 256kbps<br>(>90%) |         |         |         | Compliance Status |
|------------------|---|---------|---------|---------|-------------------|
|                  | Day 1                                       | Day 2   | Day 3   | Day 4   |                   |
| Bongo            | 100.00%                                     | 100.00% | 100.00% | 100.00% | Pass              |
| Fumbisi          | 100.00%                                     | 100.00% | 100.00% | 100.00% | Pass              |
| Sandema          | 100.00%                                     | 100.00% | 100.00% | 100.00% | Pass              |
| Tongo            | 98.99%                                      | 100.00% | 100.00% | 96.36%  | Pass              |
| Zebilla          | 100.00%                                     | 100.00% | 98.80%  | 98.85%  | Pass              |
| Zuarungu         | 100.00%                                     | 100.00% | 100.00% | 98.84%  | Pass              |

**Upper West Region**

| District Capital | Average Data Throughput $\geq$ 256kbps<br>( $>90\%$ ) |         |         |         | Compliance Status |
|------------------|---|---------|---------|---------|-------------------|
|                  | Day 1   | Day 2   | Day 3   | Day 4   |                   |
| Funsi            | 100.00%   | 100.00% | 100.00% | 100.00% | Pass              |
| Issa             | No Data   | 100.00% | 100.00% | 100.00% | Pass              |
| Jirapa           | 100.00%   | 100.00% | 100.00% | 100.00% | Pass              |
| Lawra            | 100.00%   | 100.00% | 100.00% | 98.92%  | Pass              |
| Nadowli          | 100.00%   | 97.37%  | 100.00% | 100.00% | Pass              |
| Nandom           | 100.00%   | 100.00% | 100.00% | 93.75%  | Pass              |

**Western North Region**

| District Capital | Average Data Throughput $\geq$ 256kbps<br>( $>90\%$ ) |         |         |         | Compliance Status |
|------------------|---|---------|---------|---------|-------------------|
|                  | Day 1   | Day 2   | Day 3   | Day 4   |                   |
| Bibiani          | 100.00%   | 100.00% | 100.00% | 100.00% | Pass              |
| Dadieso          | 100.00%   | 100.00% | 100.00% | 100.00% | Pass              |
| Enchi            | 100.00%   | 98.85%  | 100.00% | 100.00% | Pass              |
| Sefwi Akontombra | 94.44%  | 100.00% | 100.00% | 100.00% | Pass              |
| Sefwi Bodi       | 100.00%   | 100.00% | 100.00% | 100.00% | Pass              |
| Sefwi Juaboso    | 87.10%  | 89.13%  | 100.00% | 70.00%  | Pass              |
| Sefwi Wiawso     | 100.00%   | 90.24%  | 100.00% | 100.00% | Pass              |

# VODAFONE RESULTS

## Voice Test (CST)

### Volta Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time (<10 sec) |       |       |       | Compliance Status |
|------------------|--|-------|-------|-------|-------------------|
|                  | Day 1  | Day 2 | Day 3 | Day 4 |                   |
| Adidome          | 04.43  | 04.70 | 04.15 | 03.84 | Pass              |
| Battor           | 04.52  | 05.22 | 04.88 | 04.50 | Pass              |
| Dzodze           | 04.55  | 04.45 | 05.02 | 05.57 | Pass              |
| Ho               | 10.97  | 09.05 | 10.16 | 12.02 | Pass              |
| Sogakope         | 04.41  | 06.00 | 05.56 | 05.81 | Pass              |

### Oti Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time (<10 sec) |       |       |       | Compliance Status |
|------------------|--|-------|-------|-------|-------------------|
|                  | Day 1  | Day 2 | Day 3 | Day 4 |                   |
| Chinderi         | 03.67  | 03.77 | 03.68 | 04.25 | Pass              |
| Dambai           | 05.76  | 04.81 | 05.60 | 05.51 | Pass              |
| Ketekrachi       | 03.81  | 04.43 | 04.77 | 04.40 | Pass              |

### Bono East Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time (<10 sec) |       |       |       | Compliance Status |
|------------------|--|-------|-------|-------|-------------------|
|                  | Day 1  | Day 2 | Day 3 | Day 4 |                   |
| Atebubu          | 09.84  | 15.49 | 14.57 | 16.13 | Pass              |
| Busunya          | 04.58  | 04.12 | 03.99 | 03.43 | Pass              |
| Jema             | 03.84  | 04.70 | 03.90 | 04.20 | Pass              |
| Kintampo         | 06.35  | 06.30 | 08.91 | 06.02 | Pass              |
| Nkoranza         | 10.89  | 06.61 | 10.16 | 10.11 | Pass              |
| Prang            | 04.97  | 07.60 | 12.80 | 08.73 | Pass              |
| Techiman         | 07.31  | 09.13 | 11.35 | 07.86 | Pass              |
| Yeji             | 04.58  | 09.53 | 10.00 | 13.01 | Pass              |

### Bono Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time (<10 sec) |       |       |       | Compliance Status |
|------------------|--|-------|-------|-------|-------------------|
|                  | Day 1  | Day 2 | Day 3 | Day 4 |                   |
| Berekum          | 09.49  | 09.00 | 10.51 | 11.07 | Pass              |
| Dormaa Ahenkro   | 12.38  | 11.13 | 15.95 | 09.96 | Pass              |
| Jinijini         | 04.59  | 05.75 | 06.49 | 05.20 | Pass              |
| Nkrankwanta      | 03.80  | 04.21 | 03.90 | 04.12 | Pass              |
| Nsawkaw          | 04.23  | 04.28 | 03.41 | 03.32 | Pass              |
| Odomase          | 08.95  | 08.36 | 08.65 | 07.29 | Pass              |
| Sunyani          | 11.43  | 13.03 | 13.95 | 09.34 | Pass              |
| Wemfie           | 05.26  | 04.21 | 10.02 | 04.56 | Pass              |
| Wenchi           | 06.56  | 07.06 | 07.28 | 07.53 | Pass              |

**Ahafo Region**

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time<br>(<10 sec) |       |       |       | Compliance Status |
|------------------|---|-------|-------|-------|-------------------|
|                  | Day 1   | Day 2 | Day 3 | Day 4 |                   |
| Bechem           | 06.10   | 05.30 | 05.20 | 11.40 | Pass              |
| Duayaw Kwanta    | 04.90   | 05.40 | 04.80 | 06.90 | Pass              |
| Goaso            | 05.80   | 05.40 | 05.10 | 05.00 | Pass              |
| Hweddiem         | 04.80   | 04.00 | 04.40 | 04.00 | Pass              |
| Kenyasi          | 04.60   | 04.30 | 05.10 | 04.60 | Pass              |
| Kukuom           | 03.90   | 04.02 | 04.40 | 04.30 | Pass              |

**Western North Region**

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time<br>(<10 sec) |       |       |       | Compliance Status |
|------------------|---|-------|-------|-------|-------------------|
|                  | Day 1   | Day 2 | Day 3 | Day 4 |                   |
| Bibiani          | 04.77   | 05.23 | 05.97 | 04.80 | Pass              |
| Dadieso          | 05.60   | 10.20 | 04.86 | 08.01 | Pass              |
| Enchi            | 06.90   | 05.81 | 05.60 | 08.05 | Pass              |
| Sefwi Akontombra | 06.67   | 04.04 | 06.17 | 04.19 | Pass              |
| Sefwi Bodi       | 04.42   | 04.68 | 04.61 | 04.10 | Pass              |
| Sefwi Juaboso    | 04.56   | 04.20 | 05.40 | 04.11 | Pass              |
| Sefwi Wiawso     | 13.31   | 13.83 | 15.22 | 12.99 | Fail              |

**Upper East Region**

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time<br>(<10 sec) |       |       |       | Compliance Status |
|------------------|---|-------|-------|-------|-------------------|
|                  | Day 1   | Day 2 | Day 3 | Day 4 |                   |
| Bongo            | 12.77   | 08.10 | 13.30 | 10.04 | Pass              |
| Fumbisi          | 03.95   | 04.20 | 03.70 | 03.34 | Pass              |
| Sandema          | 05.32   | 05.45 | 05.30 | 04.67 | Pass              |
| Tongo            | 07.45   | 06.80 | 06.21 | 09.15 | Pass              |
| Zebilla          | 06.42   | 09.08 | 04.83 | 05.82 | Pass              |
| Zuarungu         | 12.25   | 14.63 | 11.23 | 12.10 | Fail              |

**Upper West Region**

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time<br>(<10 sec) |       |       |       | Compliance Status |
|------------------|---|-------|-------|-------|-------------------|
|                  | Day 1   | Day 2 | Day 3 | Day 4 |                   |
| Funsi            | 04.00   | 04.00 | 05.00 | 04.00 | Pass              |
| Issa             | 04.00   | 05.00 | 05.00 | 04.00 | Pass              |
| Jirapa           | 06.00   | 06.00 | 04.00 | 04.00 | Pass              |
| Lawra            | 05.00   | 05.00 | 05.00 | 06.00 | Pass              |
| Nadowli          | 06.00   | 05.00 | 06.00 | 05.00 | Pass              |
| Nandom           | 04.00   | 04.00 | 04.00 | 04.00 | Pass              |



### Western Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time<br>(<10 sec) |       |              |              | Compliance Status |
|------------------|---|-------|--------------|--------------|-------------------|
|                  | Day 1   | Day 2 | Day 3        | Day 4        |                   |
| Agona Nkwanta    | 05.50   | 05.45 | 06.19        | 06.03        | Pass              |
| Bogoso           | 09.33   | 07.12 | <b>10.59</b> | 06.11        | Pass              |
| Daboase          | 05.37   | 07.76 | 08.23        | 06.46        | Pass              |
| Half Assini      | 04.35   | 07.29 | 05.20        | 04.68        | Pass              |
| Mpohor           | 04.50   | 04.60 | 04.98        | 04.64        | Pass              |
| Nkroful          | 03.94   | 04.18 | 04.06        | 04.82        | Pass              |
| Shama            | 04.85   | 04.68 | <b>10.84</b> | 05.24        | Pass              |
| Wassa Akropong   | 07.24   | 07.23 | 06.21        | <b>10.36</b> | Pass              |

## Voice Quality (MOS)

### Volta

| District Capital | Average MOS<br>(> 3.5) |             |             |       | Compliance Status |
|------------------|------------------------|-------------|-------------|-------|-------------------|
|                  | Day 1                  | Day 2       | Day 3       | Day 4 |                   |
| Adidome          | 3.68                   | 3.67        | 3.68        | 3.70  | Pass              |
| Battor           | 3.60                   | 3.58        | 3.56        | 3.65  | Pass              |
| Dzodze           | 3.53                   | 3.59        | 3.59        | 3.58  | Pass              |
| Ho               | <b>3.49</b>            | <b>3.47</b> | <b>3.47</b> | 3.51  | Pass              |
| Sogakope         | 3.67                   | <b>3.49</b> | 3.69        | 3.60  | Pass              |

### Oti Region

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Chinderi         | 3.77                   | 3.77  | 3.78  | 3.74  | Pass              |
| Dambai           | 3.70                   | 3.65  | 3.70  | 3.63  | Pass              |
| Ketekrachi       | 3.67                   | 3.69  | 3.66  | 3.65  | Pass              |

### Bono East Region

| District Capital | Average MOS<br>(> 3.5) |             |             |             | Compliance Status |
|------------------|------------------------|-------------|-------------|-------------|-------------------|
|                  | Day 1                  | Day 2       | Day 3       | Day 4       |                   |
| Atebubu          | 3.56                   | <b>2.68</b> | <b>3.14</b> | <b>2.77</b> | Pass              |
| Busunya          | 3.58                   | 3.73        | 3.74        | 3.73        | Pass              |
| Jema             | 3.55                   | 3.66        | 3.62        | 3.67        | Pass              |
| Kintampo         | <b>3.46</b>            | <b>3.42</b> | 3.54        | <b>3.49</b> | Pass              |
| Nkoranza         | <b>3.38</b>            | <b>3.32</b> | <b>3.47</b> | <b>3.38</b> | Fail              |
| Prang            | 3.73                   | <b>3.21</b> | <b>3.23</b> | <b>3.31</b> | Pass              |
| Techiman         | <b>3.49</b>            | 3.51        | <b>3.45</b> | 3.52        | Pass              |
| Yeji             | 3.61                   | <b>3.38</b> | <b>3.26</b> | <b>3.23</b> | Pass              |

**Bono Region**

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Berekum          | 3.15                   | 3.14  | 3.07  | 3.19  | Fail              |
| Dormaa Ahenkro   | 3.15                   | 3.22  | 2.91  | 3.11  | Fail              |
| Jinijini         | 3.47                   | 3.59  | 3.58  | 3.60  | Pass              |
| Nkrankwanta      | 3.60                   | 3.67  | 3.66  | 3.64  | Pass              |
| Nsawkaw          | 3.68                   | 3.73  | 3.69  | 3.59  | Pass              |
| Odomase          | 3.53                   | 3.51  | 3.49  | 3.55  | Pass              |
| Sunyani          | 3.38                   | 3.35  | 3.33  | 3.46  | Fail              |
| Wemfie           | 3.54                   | 3.54  | 3.42  | 3.52  | Pass              |
| Wenchi           | 3.51                   | 3.51  | 3.48  | 3.50  | Pass              |

**Ahafo Region**

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Bechem           | 3.59                   | 3.65  | 3.62  | 3.32  | Pass              |
| Duayaw Kwanta    | 3.70                   | 3.66  | 3.64  | 3.60  | Pass              |
| Goaso            | 3.68                   | 3.63  | 3.69  | 3.61  | Pass              |
| Hweddiem         | 3.72                   | 3.78  | 3.76  | 3.74  | Pass              |
| Kenyasi          | 3.72                   | 3.70  | 3.72  | 3.67  | Pass              |
| Kukuom           | 3.73                   | 3.72  | 3.74  | 3.74  | Pass              |

**Western North Region**

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Bibiani          | 3.51                   | 3.60  | 3.48  | 3.62  | Pass              |
| Dadieso          | 3.38                   | 3.22  | 3.54  | 3.50  | Pass              |
| Enchi            | 3.56                   | 3.59  | 3.62  | 3.54  | Pass              |
| Sefwi Akontombra | 3.48                   | 3.67  | 3.55  | 3.72  | Pass              |
| Sefwi Bodi       | 3.70                   | 3.71  | 3.67  | 3.74  | Pass              |
| Sefwi Juaboso    | 3.67                   | 3.59  | 3.63  | 3.68  | Pass              |
| Sefwi Wiawso     | 3.05                   | 3.09  | 2.81  | 3.10  | Fail              |

**Upper East Region**

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Bongo            | 3.61                   | 3.51  | 3.63  | 3.54  | Pass              |
| Fumbisi          | 3.78                   | 3.77  | 3.77  | 3.79  | Pass              |
| Sandema          | 3.70                   | 3.73  | 3.42  | 3.70  | Pass              |
| Tongo            | 3.58                   | 3.59  | 3.67  | 3.61  | Pass              |
| Zebilla          | 3.56                   | 3.59  | 3.16  | 3.62  | Pass              |
| Zuarungu         | 3.43                   | 3.49  | 3.52  | 3.52  | Pass              |

### Upper West Region

| District Capital | Average MOS<br>(> 3.5) |       |             |       | Compliance Status |
|------------------|------------------------|-------|-------------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3       | Day 4 |                   |
| Funsi            | 3.65                   | 3.67  | 3.63        | 3.65  | Pass              |
| Issa             | 3.69                   | 3.65  | 3.70        | 3.69  | Pass              |
| Jirapa           | 3.56                   | 3.63  | 3.68        | 3.52  | Pass              |
| Lawra            | 3.55                   | 3.67  | 3.62        | 3.56  | Pass              |
| Nadowli          | 3.53                   | 3.64  | <b>3.63</b> | 3.61  | Pass              |
| Nandom           | 3.73                   | 3.76  | 3.73        | 3.75  | Pass              |

### Western Region

| District Capital | Average MOS<br>(> 3.5) |             |             |             | Compliance Status |
|------------------|------------------------|-------------|-------------|-------------|-------------------|
|                  | Day 1                  | Day 2       | Day 3       | Day 4       |                   |
| Agona Nkwanta    | 3.64                   | 3.61        | 3.62        | 3.64        | Pass              |
| Bogoso           | <b>3.37</b>            | <b>3.37</b> | <b>3.42</b> | <b>3.38</b> | <b>Fail</b>       |
| Daboase          | <b>3.46</b>            | <b>3.42</b> | <b>3.05</b> | <b>3.39</b> | <b>Fail</b>       |
| Half Assini      | 3.58                   | 3.53        | 3.64        | 3.60        | Pass              |
| Mpohor           | 3.60                   | 3.58        | 3.63        | 3.64        | Pass              |
| Nkroful          | 3.69                   | 3.67        | 3.70        | 3.69        | Pass              |
| Shama            | 3.64                   | 3.74        | 3.67        | 3.71        | Pass              |
| Wassa Akropong   | <b>3.37</b>            | <b>3.36</b> | <b>3.27</b> | <b>3.27</b> | <b>Fail</b>       |

## 3G Data

### Volta Region

| District Capital | Average Data Throughput $\geq$ 256kbps<br>(> 90%) |         |         |         | Compliance Status |
|------------------|---|---------|---------|---------|-------------------|
|                  | Day 1   | Day 2   | Day 3   | Day 4   |                   |
| Adidome          | 100.00%   | 100.00% | 100.00% | 100.00% | Pass              |
| Battor           | 100.00%   | 100.00% | 100.00% | 100.00% | Pass              |
| Dzodze           | 100.00%   | 100.00% | 100.00% | 100.00% | Pass              |
| Ho               | 100.00%   | 100.00% | 96.36%  | 100.00% | Pass              |
| Sogakope         | 100.00%   | 100.00% | 100.00% | 100.00% | Pass              |

### Oti Region

| District Capital | Average Data Throughput $\geq$ 256kbps<br>(> 90%) |         |         |         | Compliance Status |
|------------------|---|---------|---------|---------|-------------------|
|                  | Day 1   | Day 2   | Day 3   | Day 4   |                   |
| Chinderi         | 100.00%   | 100.00% | 100.00% | 100.00% | Pass              |
| Dambai           | 98.55%  | 100.00% | 100.00% | 100.00% | Pass              |
| Ketekrachi       | 100.00%   | 100.00% | 100.00% | 100.00% | Pass              |

### Bono East Region

| District Capital | Average Data Throughput ≥ 256kbps (>90%) |         |         |         | Compliance Status |
|------------------|--|---------|---------|---------|-------------------|
|                  | Day 1                                    | Day 2   | Day 3   | Day 4   |                   |
| Atebubu          | 100.00%                                  | 100.00% | 100.00% | 100.00% | Pass              |
| Busunya          | 100.00%                                  | 100.00% | 100.00% | 100.00% | Pass              |
| Jema             | 100.00%                                  | 100.00% | 98.39%  | 100.00% | Pass              |
| Kintampo         | 100.00%                                  | 100.00% | 100.00% | 100.00% | Pass              |
| Nkoranza         | 100.00%                                  | 100.00% | 100.00% | 100.00% | Pass              |
| Prang            | 100.00%                                  | 100.00% | 100.00% | 100.00% | Pass              |
| Techiman         | 71.70%                                   | 86.67%  | 84.62%  | 81.36%  | Fail              |
| Yeji             | 100.00%                                  | 98.00%  | 100.00% | 100.00% | Pass              |

### Bono Region

| District Capital | Average Data Throughput ≥ 256kbps (> 90%) |         |         |         | Compliance Status |
|------------------|---|---------|---------|---------|-------------------|
|                  | Day 1                                     | Day 2   | Day 3   | Day 4   |                   |
| Berekum          | 100.00%                                   | 88.89%  | 98.25%  | 96.49%  | Pass              |
| Dormaa Ahenkro   | 62.50%                                    | 89.47%  | 66.67%  | 56.25%  | Fail              |
| Jinijini         | 100.00%                                   | 93.75%  | 100.00% | 100.00% | Pass              |
| Nkrankwanta      | 100.00%                                   | 100.00% | 100.00% | 100.00% | Pass              |
| Nsawkaw          | 100.00%                                   | 100.00% | 100.00% | 100.00% | Pass              |
| Odomase          | 95.24%                                    | 97.78%  | 100.00% | 94.74%  | Pass              |
| Sunyani          | 100.00%                                   | 100.00% | 98.11%  | 93.10%  | Pass              |
| Wemfie           | 95.45%                                    | 100.00% | 100.00% | 96.36%  | Pass              |
| Wenchi           | 100.00%                                   | 100.00% | 98.28%  | 100.00% | Pass              |

### Ahafo Region

| District Capital | Average Data Throughput ≥ 256kbps (> 90%) |         |         |         | Compliance Status |
|------------------|---|---------|---------|---------|-------------------|
|                  | Day 1                                     | Day 2   | Day 3   | Day 4   |                   |
| Bechem           | 100.00%                                   | 100.00% | 100.00% | 100.00% | Pass              |
| Duayaw Kwanta    | 100.00%                                   | 98.77%  | 100.00% | 98.57%  | Pass              |
| Goaso            | 96.23%                                    | 99.01%  | 100.00% | 100.00% | Pass              |
| Hweddiem         | 100.00%                                   | 100.00% | 100.00% | 100.00% | Pass              |
| Kenyasi          | 100.00%                                   | 96.00%  | 96.67%  | 95.00%  | Pass              |
| Kukuom           | 100.00%                                   | 100.00% | 100.00% | 100.00% | Pass              |

### Western North Region

| District Capital | Average Data Throughput ≥ 256kbps (>90%) |         |         |         | Compliance Status |
|------------------|--|---------|---------|---------|-------------------|
|                  | Day 1                                    | Day 2   | Day 3   | Day 4   |                   |
| Bibiani          | 100.00%                                  | 100.00% | 100.00% | 100.00% | Pass              |
| Dadieso          | 100.00%                                  | 100.00% | 100.00% | 100.00% | Pass              |
| Enchi            | 100.00%                                  | 100.00% | 100.00% | 100.00% | Pass              |
| Sefwi Akontombra | 100.00%                                  | 100.00% | 100.00% | 100.00% | Pass              |
| Sefwi Bodi       | 100.00%                                  | 100.00% | 100.00% | 100.00% | Pass              |
| Sefwi Juaboso    | 100.00%                                  | 100.00% | 100.00% | 97.50%  | Pass              |
| Sefwi Wiawso     | 100.00%                                  | 91.89%  | 100.00% | 100.00% | Pass              |

### Upper East Region

| District Capital | Average Data Throughput $\geq$ 256kbps<br>( $>90\%$ ) |         |         |         | Compliance Status |
|------------------|---|---------|---------|---------|-------------------|
|                  | Day 1   | Day 2   | Day 3   | Day 4   |                   |
| Bongo            | 100.00%   | 100.00% | 100.00% | 100.00% | Pass              |
| Fumbisi          | 100.00%   | 100.00% | 100.00% | 100.00% | Pass              |
| Sandema          | 100.00%   | 100.00% | 100.00% | 98.65%  | Pass              |
| Tongo            | 100.00%   | 100.00% | 100.00% | 100.00% | Pass              |
| Zebilla          | 100.00%   | 100.00% | 98.99%  | 100.00% | Pass              |
| Zuarungu         | 100.00%   | 100.00% | 100.00% | 100.00% | Pass              |

### Upper West Region

| District Capital | Average Data Throughput $\geq$ 256kbps<br>( $>90\%$ ) |         |         |         | Compliance Status |
|------------------|---|---------|---------|---------|-------------------|
|                  | Day 1   | Day 2   | Day 3   | Day 4   |                   |
| Funsi            | 100.00%   | 100.00% | 100.00% | 98.73%  | Pass              |
| Issa             | 100.00%   | 100.00% | 100.00% | 100.00% | Pass              |
| Jirapa           | 100.00%   | 100.00% | 100.00% | 98.82%  | Pass              |
| Lawra            | 100.00%   | 97.83 % | 100.00% | 100.00% | Pass              |
| Nadowli          | 100.00%   | 100.00% | 100.00% | 100.00% | Pass              |
| Nandom           | 100.00%   | 97.83%  | 100.00% | 100.00% | Pass              |

### Western Region

| District Capital | Average Data Throughput $\geq$ 256kbps<br>( $>90\%$ ) |         |         |         | Compliance Status |
|------------------|---|---------|---------|---------|-------------------|
|                  | Day 1   | Day 2   | Day 3   | Day 4   |                   |
| Agona Nkwanta    | 100.00%   | 100.00% | 96.36%  | 100.00% | Pass              |
| Bogoso           | 100.00%   | 100.00% | 100.00% | 100.00% | Pass              |
| Daboase          | 95.10%  | 100.00% | 91.89%  | 100.00% | Pass              |
| Half Assini      | 100.00%   | 100.00% | 100.00% | 98.72%  | Pass              |
| Mpohor           | 100.00%   | 100.00% | 100.00% | 100.00% | Pass              |
| Nkroful          | 100.00%   | 100.00% | 100.00% | 100.00% | Pass              |
| Shama            | 100.00%   | 100.00% | 100.00% | 100.00% | Pass              |
| Wassa Akropong   | 100.00%   | 97.44%  | 100.00% | 100.00% | Pass              |

## 3G Coverage Test

### Volta Region

| District Capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |        |        |        | Compliance Status |
|------------------|---|--------|--------|--------|-------------------|
|                  | Day 1                                     | Day 2  | Day 3  | Day 4  |                   |
| Adidome          | -85.22                                    | -84.19 | -84.62 | -84.66 | Pass              |
| Battor           | -81.92                                    | -82.10 | -81.84 | -8.89  | Pass              |
| Dzodze           | -88.32                                    | -91.78 | -88.41 | -89.71 | Pass              |
| Ho               | -75.21                                    | -75.53 | -76.14 | -78.11 | Pass              |
| Sogakope         | -88.56                                    | -88.77 | -88.77 | -89.10 | Pass              |

**Oti Region**

| district capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |        |        |        | Compliance Status |
|------------------|---|--------|--------|--------|-------------------|
|                  | Day 1                                     | Day 2  | Day 3  | Day 4  |                   |
| Chinderi         | -82.17                                    | -79.62 | -79.05 | -80.63 | Pass              |
| Dambai           | -89.31                                    | -89.36 | -90.99 | -91.73 | Pass              |
| Ketekrachi       | -87.34                                    | -87.52 | -86.35 | -86.52 | Pass              |

**Bono East Region**

| District Capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |        |        |        | Compliance Status |
|------------------|---|--------|--------|--------|-------------------|
|                  | Day 1                                     | Day 2  | Day 3  | Day 4  |                   |
| Atebubu          | -93.03                                    | -91.83 | -92.95 | -91.96 | Pass              |
| Busunya          | -75.88                                    | -76.56 | -77.06 | -72.37 | Pass              |
| Jema             | -85.18                                    | -82.14 | -82.07 | -84.12 | Pass              |
| Kintampo         | -84.73                                    | -82.13 | -82.25 | -82.08 | Pass              |
| Nkoranza         | -87.50                                    | -88.05 | -86.45 | -88.47 | Pass              |
| Prang            | -85.44                                    | -80.69 | -82.48 | -81.12 | Pass              |
| Techiman         | -79.83                                    | -79.83 | -80.50 | -80.00 | Pass              |
| Yeji             | -87.65                                    | -88.64 | -90.34 | -89.59 | Pass              |

**Bono Region**

| District Capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |        |        |        | Compliance Status |
|------------------|---|--------|--------|--------|-------------------|
|                  | Day 1                                     | Day 2  | Day 3  | Day 4  |                   |
| Berekum          | -80.23                                    | -82.69 | -84.25 | -84.86 | Pass              |
| Dormaa Ahenkro   | -93.64                                    | -90.74 | -91.60 | -90.78 | Pass              |
| Jinijini         | -87.40                                    | -84.47 | -84.32 | -86.85 | Pass              |
| Nkrankwanta      | -86.53                                    | -86.89 | -89.70 | -86.34 | Pass              |
| Nsawkaw          | -84.41                                    | -80.68 | -80.43 | -80.49 | Pass              |
| Odomase          | -81.97                                    | -83.99 | -81.44 | -80.32 | Pass              |
| Sunyani          | -84.20                                    | -82.46 | -81.98 | -80.54 | Pass              |
| Wemfie           | -90.25                                    | -90.21 | -91.71 | -90.03 | Pass              |
| Wenchi           | -88.07                                    | -83.46 | -82.98 | -85.59 | Pass              |

**Ahafo Region**

| District Capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |        |        |        | Compliance Status |
|------------------|---|--------|--------|--------|-------------------|
|                  | Day 1                                     | Day 2  | Day 3  | Day 4  |                   |
| Bechem           | -89.22                                    | -89.60 | -88.38 | -88.45 | Pass              |
| Duayaw Kwanta    | -87.37                                    | -87.50 | -87.12 | -87.61 | Pass              |
| Goaso            | -81.87                                    | -81.53 | -81.00 | -82.13 | Pass              |
| Hweddiem         | -82.41                                    | -82.22 | -83.15 | -82.54 | Pass              |
| Kenyasi          | -89.77                                    | -90.05 | -91.38 | -91.31 | Pass              |
| Kukuom           | -88.64                                    | -93.12 | -92.14 | -93.64 | Pass              |

**Western North Region**

| District Capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |        |        |        | Compliance Status |
|------------------|---|--------|--------|--------|-------------------|
|                  | Day 1                                     | Day 2  | Day 3  | Day 4  |                   |
| Bibiani          | -87.97                                    | -85.33 | -95.35 | -95.28 | Pass              |
| Dadieso          | -89.22                                    | -90.91 | -89.54 | -91.69 | Pass              |
| Enchi            | -83.19                                    | -82.02 | -81.51 | -82.20 | Pass              |
| Sefwi Akontombra | -86.70                                    | -86.81 | -86.76 | -88.04 | Pass              |
| Sefwi Bodi       | -86.31                                    | -85.93 | -84.53 | -86.47 | Pass              |
| Sefwi Juaboso    | -84.50                                    | -84.35 | -82.38 | -84.36 | Pass              |
| Sefwi Wiawso     | -94.51                                    | -94.05 | -95.35 | -95.28 | Pass              |

**Upper East Region**

| District Capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |        |        |        | Compliance Status |
|------------------|---|--------|--------|--------|-------------------|
|                  | Day 1                                     | Day 2  | Day 3  | Day 4  |                   |
| Bongo            | -92.68                                    | -97.8  | -90.53 | -90.68 | Pass              |
| Fumbisi          | -77.74                                    | -77.97 | -74.78 | -74.73 | Pass              |
| Sandema          | -74.73                                    | -88.2  | -85.91 | -89.04 | Pass              |
| Tongo            | -84.84                                    | -91.34 | -85.66 | -87.94 | Pass              |
| Zebilla          | -94.52                                    | -95.07 | -92.66 | -92.31 | Pass              |
| Zuarungu         | -91.03                                    | -93.32 | -91.91 | -93.93 | Pass              |

**Upper West Region**

| District Capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |        |        |        | Compliance Status |
|------------------|---|--------|--------|--------|-------------------|
|                  | Day 1                                     | Day 2  | Day 3  | Day 4  |                   |
| Funsi            | -75.02                                    | -69.78 | -77.86 | -77.53 | Pass              |
| Issa             | -77.29                                    | -75.79 | -78.01 | -77.36 | Pass              |
| Jirapa           | -85.46                                    | -90.72 | -87.91 | -88.27 | Pass              |
| Lawra            | -80.94                                    | -79.71 | -78.37 | -80.57 | Pass              |
| Nadowli          | -95.99                                    | -90.07 | -87.93 | -88.72 | Pass              |
| Nandom           | -84.62                                    | -84.48 | -84.16 | -83.48 | Pass              |

**Western Region**

| District Capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |        |        |        | Compliance Status |
|------------------|---|--------|--------|--------|-------------------|
|                  | Day 1                                     | Day 2  | Day 3  | Day 4  |                   |
| Agona Nkwanta    | -90.19                                    | -93.73 | -90.07 | -91.00 | Pass              |
| Bogoso           | -76.45                                    | -79.91 | -79.25 | -78.50 | Pass              |
| Daboase          | -77.59                                    | -79.82 | -76.43 | -78.93 | Pass              |
| Half Assini      | -93.20                                    | -90.27 | -90.18 | -92.96 | Pass              |
| Mpohor           | -84.85                                    | -84.94 | -85.39 | -86.55 | Pass              |
| Nkroful          | -79.55                                    | -81.54 | -79.48 | -83.02 | Pass              |
| Shama            | -82.38                                    | -80.45 | -76.10 | -82.90 | Pass              |

| District Capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |        |        |        | Compliance<br>Status |
|------------------|---|--------|--------|--------|----------------------|
|                  | Day 1                                     | Day 2  | Day 3  | Day 4  |                      |
| Wassa Akropong   | -72.77                                    | -73.75 | -72.59 | -72.92 | Pass                 |



# MTN RESULTS

## Voice Test (CST)

### Volta Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time<br>(<10 sec) |       |       |       | Compliance Status |
|------------------|---|-------|-------|-------|-------------------|
|                  | Day 1   | Day 2 | Day 3 | Day 4 |                   |
| Adidome          | 08.52   | 09.10 | 07.67 | 08.24 | Pass              |
| Battor           | 06.72   | 06.70 | 06.75 | 07.58 | Pass              |
| Dzodze           | 08.12   | 08.64 | 08.12 | 07.44 | Pass              |
| Ho               | 09.32   | 08.23 | 09.51 | 08.94 | Pass              |
| Sogakope         | 07.65   | 08.89 | 07.93 | 08.55 | Pass              |

### Oti Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time<br>(<10 sec) |       |       |       | Compliance Status |
|------------------|---|-------|-------|-------|-------------------|
|                  | Day 1   | Day 2 | Day 3 | Day 4 |                   |
| Chinderi         | 06.12   | 06.12 | 07.00 | 06.95 | Pass              |
| Dambai           | 06.56   | 07.84 | 07.95 | 09.88 | Pass              |
| Kete-Krachi      | 06.72   | 05.98 | 06.02 | 06.61 | Pass              |

### Bono East Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time<br>(<10 sec) |       |       |       | Compliance Status |
|------------------|---|-------|-------|-------|-------------------|
|                  | Day 1   | Day 2 | Day 3 | Day 4 |                   |
| Atebubu          | 08.57   | 08.21 | 06.73 | 08.84 | Pass              |
| Busunya          | 04.58   | 04.18 | 04.35 | 05.20 | Pass              |
| Jema             | 06.40   | 05.04 | 04.84 | 05.54 | Pass              |
| Kintampo         | 08.87   | 07.89 | 09.00 | 07.83 | Pass              |
| Nkoranza         | 08.83   | 08.50 | 08.18 | 07.58 | Pass              |
| Prang            | 05.86   | 06.00 | 06.00 | 07.51 | Pass              |
| Techiman1        | 10.50   | 09.91 | 09.63 | 10.49 | Pass              |
| Yeji             | 09.20   | 09.19 | 07.83 | 09.72 | Pass              |

### Western North Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time<br>(<10 sec) |       |       |       | Compliance Status |
|------------------|---|-------|-------|-------|-------------------|
|                  | Day 1   | Day 2 | Day 3 | Day 4 |                   |
| Bibiani          | 07.95   | 07.35 | 07.74 | 07.11 | Pass              |
| Dadieso          | 07.02   | 07.96 | 07.17 | 06.60 | Pass              |
| Enchi            | 07.70   | 07.37 | 07.16 | 08.74 | Pass              |
| Sefwi Akontombra | 05.65   | 04.95 | 06.23 | 05.94 | Pass              |
| Sefwi Bodi       | 06.55   | 06.20 | 06.80 | 05.50 | Pass              |

|               |       |       |       |       |      |
|---------------|-------|-------|-------|-------|------|
| Sefwi Juaboso | 07.40 | 06.92 | 05.69 | 05.71 | Pass |
| Sefwi Wiawso  | 08.44 | 09.03 | 08.90 | 08.80 | Pass |

### Bono Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time (<10 sec) |              |              |              | Compliance Status |
|------------------|--|--------------|--------------|--------------|-------------------|
|                  | Day 1  | Day 2        | Day 3        | Day 4        |                   |
| Berekum          | 08.63  | 08.79        | <b>11.97</b> | 07.35        | Pass              |
| Dormaa Ahenkro   | 08.74  | 08.23        | 09.07        | 08.36        | Pass              |
| Jinijini         | 07.96  | 07.43        | 08.50        | 08.68        | Pass              |
| Nkrankwanta      | 05.56  | 05.32        | 05.85        | 04.30        | Pass              |
| Nsawkaw          | 07.74  | 06.13        | 04.27        | 06.26        | Pass              |
| Odomase          | 08.48  | 08.79        | 07.69        | 07.50        | Pass              |
| Sunyani          | 09.69  | <b>12.16</b> | <b>11.00</b> | 09.89        | Pass              |
| Wemfie           | 05.80  | 05.80        | 06.26        | 05.18        | Pass              |
| Wenchi           | <b>10.34</b>   | 08.87        | 08.50        | <b>11.57</b> | Pass              |

### Ahafo Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time (<10 sec) |       |              |       | Compliance Status |
|------------------|--|-------|--------------|-------|-------------------|
|                  | Day 1  | Day 2 | Day 3        | Day 4 |                   |
| Bechem           | 09.20  | 07.50 | 07.80        | 08.40 | Pass              |
| Duayaw Kwanta    | 07.10  | 07.30 | 07.50        | 06.60 | Pass              |
| Goaso            | 07.50  | 06.60 | 07.80        | 08.50 | Pass              |
| Hweddiem         | 07.70  | 06.60 | 07.90        | 07.70 | Pass              |
| Kenyasi          | <b>10.30</b>   | 08.20 | <b>11.20</b> | 09.20 | Pass              |
| Kukuom           | 05.20  | 07.60 | 06.50        | 06.00 | Pass              |

### Upper East Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time (<10 sec) |       |              |       | Compliance Status |
|------------------|--|-------|--------------|-------|-------------------|
|                  | Day 1  | Day 2 | Day 3        | Day 4 |                   |
| Bongo            | 09.96  | 08.55 | 06.89        | 07.80 | Pass              |
| Fumbisi          | 05.05  | 05.22 | 07.00        | 05.34 | Pass              |
| Sandema          | 06.56  | 05.76 | 05.96        | 06.05 | Pass              |
| Tongo            | 07.61  | 08.85 | 08.89        | 08.45 | Pass              |
| Zebilla          | 06.79  | 08.47 | 06.63        | 08.01 | Pass              |
| Zuarungu         | <b>10.53</b>   | 07.68 | <b>10.45</b> | 09.13 | Pass              |

### Upper West Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time<br>(<10 sec) |       |       |       | Compliance Status |
|------------------|---|-------|-------|-------|-------------------|
|                  | Day 1   | Day 2 | Day 3 | Day 4 |                   |
| Funsi            | 05.00   | 05.00 | 05.00 | 04.00 | Pass              |
| Issa             | 06.00   | 06.00 | 06.00 | 05.00 | Pass              |
| Jirapa           | 08.00   | 07.00 | 07.00 | 07.00 | Pass              |
| Lawra            | 06.00   | 05.00 | 05.00 | 05.00 | Pass              |
| Nadowli          | 06.00   | 05.00 | 05.00 | 07.00 | Pass              |
| Nandom           | 05.00   | 06.00 | 06.00 | 04.00 | Pass              |

### Western Region

| District Capital | 95 <sup>th</sup> Percentile of Call Setup Time<br>(<10 sec) |       |       |       | Compliance Status |
|------------------|---|-------|-------|-------|-------------------|
|                  | Day 1   | Day 2 | Day 3 | Day 4 |                   |
| Agona Nkwanta    | 08.23   | 08.53 | 08.04 | 07.96 | Pass              |
| Bogoso           | 07.88   | 07.90 | 09.10 | 08.47 | Pass              |
| Daboase          | 06.65   | 05.77 | 07.89 | 07.86 | Pass              |
| Half Assini      | 08.45   | 07.87 | 08.01 | 07.95 | Pass              |
| Mpohor           | 07.05   | 05.90 | 07.01 | 07.29 | Pass              |
| Nkroful          | 06.06   | 05.95 | 04.78 | 05.59 | Pass              |
| Shama            | 06.08   | 07.07 | 05.91 | 07.28 | Pass              |
| Wassa Akropong   | 07.81   | 08.58 | 07.52 | 07.60 | Pass              |

## Voice Test (MOS)

### Volta Region

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Adidome          | 3.63                   | 3.70  | 3.65  | 3.57  | Pass              |
| Battor           | 3.62                   | 3.69  | 3.70  | 3.71  | Pass              |
| Dzodze           | 3.62                   | 3.67  | 3.64  | 3.66  | Pass              |
| Ho               | 3.72                   | 3.73  | 3.72  | 3.72  | Pass              |
| Sogakope         | 3.70                   | 3.69  | 3.69  | 3.68  | Pass              |

### Oti Region

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Chinderi         | 3.78                   | 3.75  | 3.75  | 3.70  | Pass              |
| Dambai           | 3.67                   | 3.65  | 3.68  | 3.65  | Pass              |
| Kete-Krachi      | 3.73                   | 3.75  | 3.74  | 3.75  | Pass              |

**Bono East Region**

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Atebubu          | 3.62                   | 3.71  | 3.69  | 3.64  | Pass              |
| Busunya          | 3.77                   | 3.77  | 3.79  | 3.80  | Pass              |
| Jema             | 3.79                   | 3.76  | 3.77  | 3.76  | Pass              |
| Kintampo         | 3.73                   | 3.72  | 3.74  | 3.75  | Pass              |
| Nkoranza         | 3.72                   | 3.70  | 3.73  | 3.68  | Pass              |
| Prang            | 3.76                   | 3.72  | 3.76  | 3.74  | Pass              |
| Techiman         | 3.69                   | 3.68  | 3.70  | 3.69  | Pass              |
| Yeji             | 3.63                   | 3.61  | 3.57  | 3.52  | Pass              |

**Western North Region**

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Bibiani          | 3.75                   | 3.77  | 3.76  | 3.76  | Pass              |
| Dadieso          | 3.74                   | 3.71  | 3.74  | 3.67  | Pass              |
| Enchi            | 3.73                   | 3.73  | 3.75  | 3.70  | Pass              |
| Sefwi Akontombra | 3.63                   | 3.69  | 3.68  | 3.70  | Pass              |
| Sefwi Bodi       | 3.80                   | 3.77  | 3.79  | 3.77  | Pass              |
| Sefwi Juaboso    | 3.73                   | 3.77  | 3.76  | 3.75  | Pass              |
| Sefwi Wiawso     | 3.73                   | 3.69  | 3.63  | 3.66  | Pass              |

**Bono Region**

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Berekum          | 3.69                   | 3.66  | 3.68  | 3.68  | Pass              |
| Dormaa Ahenkro   | 3.67                   | 3.70  | 3.64  | 3.66  | Pass              |
| Jinijini         | 3.72                   | 3.77  | 3.74  | 3.75  | Pass              |
| Nkrankwanta      | 3.70                   | 3.75  | 3.79  | 3.77  | Pass              |
| Nsawkaw          | 3.78                   | 3.76  | 3.78  | 3.77  | Pass              |
| Odomase          | 3.70                   | 3.71  | 3.71  | 3.71  | Pass              |
| Sunyani          | 3.65                   | 3.69  | 3.67  | 3.65  | Pass              |
| Wemfie           | 3.68                   | 3.67  | 3.70  | 3.69  | Pass              |
| Wenchi           | 3.61                   | 3.60  | 3.62  | 3.56  | Pass              |

**Ahafo Region**

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Bechem           | 3.69                   | 3.65  | 3.69  | 3.68  | Pass              |
| Duayaw Kwanta    | 3.66                   | 3.69  | 3.61  | 3.67  | Pass              |
| Goaso            | 3.73                   | 3.72  | 3.73  | 3.72  | Pass              |
| Hweddiem         | 3.63                   | 3.70  | 3.71  | 3.61  | Pass              |
| Kenyasi          | 3.68                   | 3.68  | 3.68  | 3.67  | Pass              |
| Kukuom           | 3.79                   | 3.78  | 3.79  | 3.77  | Pass              |

**Upper East Region**

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Bongo            | 3.55                   | 3.65  | 3.58  | 3.52  | Pass              |
| Fumbisi          | 3.81                   | 3.79  | 3.76  | 3.80  | Pass              |
| Sandema          | 3.75                   | 3.77  | 3.75  | 3.77  | Pass              |
| Tongo            | 3.64                   | 3.66  | 3.61  | 3.63  | Pass              |
| Zebilla          | 3.63                   | 3.60  | 3.62  | 3.56  | Pass              |
| Zuarungu         | 3.68                   | 3.65  | 3.62  | 3.67  | Pass              |

**Upper West Region**

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Funsi            | 3.72                   | 3.73  | 3.74  | 3.75  | Pass              |
| Issa             | 3.67                   | 3.77  | 3.75  | 3.77  | Pass              |
| Jirapa           | 3.75                   | 3.68  | 3.73  | 3.63  | Pass              |
| Lawra            | 3.78                   | 3.77  | 3.78  | 3.76  | Pass              |
| Nadowli          | 3.74                   | 3.76  | 3.72  | 3.72  | Pass              |
| Nandom           | 3.79                   | 3.30  | 3.78  | 3.77  | Pass              |

**Western Region**

| District Capital | Average MOS<br>(> 3.5) |       |       |       | Compliance Status |
|------------------|------------------------|-------|-------|-------|-------------------|
|                  | Day 1                  | Day 2 | Day 3 | Day 4 |                   |
| Agona Nkwanta    | 3.72                   | 3.72  | 3.70  | 3.73  | Pass              |
| Bogoso           | 3.66                   | 3.67  | 3.69  | 3.69  | Pass              |
| Daboase          | 3.72                   | 3.72  | 3.67  | 3.69  | Pass              |
| Half Assini      | 3.73                   | 3.75  | 3.74  | 3.78  | Pass              |
| Mpohor           | 3.75                   | 3.78  | 3.78  | 3.78  | Pass              |
| Nkroful          | 3.68                   | 3.72  | 3.77  | 3.72  | Pass              |
| Shama            | 3.76                   | 3.76  | 3.77  | 3.78  | Pass              |
| Wassa Akropong   | 3.73                   | 3.67  | 3.68  | 3.72  | Pass              |

## 3G Coverage Test

### Volta Region

| District Capital | Average RSRP<br>(> -105dBm) |        |        |        | Compliance Status |
|------------------|-----------------------------|--------|--------|--------|-------------------|
|                  | Day 1                       | Day 2  | Day 3  | Day 4  |                   |
| Adidome          | -88.75                      | -86.22 | -87.59 | -87.17 | Pass              |
| Battor           | -82.30                      | -79.99 | -81.42 | -82.40 | Pass              |
| Dzodze           | -74.85                      | -75.13 | -74.44 | -75.17 | Pass              |
| Ho               | -73.46                      | -74.63 | -73.11 | -73.79 | Pass              |
| Sogakope         | -74.76                      | -74.89 | -74.85 | -74.80 | Pass              |

### Oti Region

| District Capital | Average RSRP<br>(> -105dBm) |        |        |        | Compliance Status |
|------------------|-----------------------------|--------|--------|--------|-------------------|
|                  | Day 1                       | Day 2  | Day 3  | Day 4  |                   |
| Chinderi         | -78.74                      | -79.21 | -79.38 | -79.85 | Pass              |
| Dambai           | -83.26                      | -84.05 | -85.68 | -84.90 | Pass              |
| Kete-Krachi      | -73.82                      | -75.04 | -75.24 | -74.13 | Pass              |

### Bono East Region

| District Capital | Average RSCP<br>(≥ -105dBm) |        |        |        | Compliance Status |
|------------------|-----------------------------|--------|--------|--------|-------------------|
|                  | Day 1                       | Day 2  | Day 3  | Day 4  |                   |
| Atebubu          | -78.52                      | -78.26 | -76.89 | -75.59 | Pass              |
| Busunya          | -83.50                      | -84.87 | -81.10 | -79.26 | Pass              |
| Jema             | -75.14                      | -75.94 | -74.85 | -76.44 | Pass              |
| Kintampo         | -75.62                      | -73.34 | -74.08 | -73.65 | Pass              |
| Nkoranza         | -75.70                      | -75.11 | -76.23 | -74.10 | Pass              |
| Prang            | -72.03                      | -73.39 | -68.89 | -69.69 | Pass              |
| Techiman         | -76.92                      | -75.75 | -77.16 | -77.05 | Pass              |
| Yeji             | -82.06                      | -81.59 | -81.73 | -80.03 | Pass              |

### Western North Region

| District Capital | Average RSCP<br>(≥ -105dBm) |        |        |        | Compliance Status |
|------------------|-----------------------------|--------|--------|--------|-------------------|
|                  | Day 1                       | Day 2  | Day 3  | Day 4  |                   |
| Bibiani          | -73.82                      | -73.31 | -74.07 | -74.29 | Pass              |
| Dadieso          | -74.60                      | -78.05 | -75.27 | -77.26 | Pass              |
| Enchi            | -77.91                      | -78.71 | -77.30 | -78.29 | Pass              |
| Sefwi Akontombra | -74.56                      | -73.28 | -74.42 | -73.85 | Pass              |
| Sefwi Bodi       | -74.21                      | -72.94 | -73.29 | -74.24 | Pass              |
| Sefwi Juaboso    | -80.52                      | -76.62 | -77.23 | -78.08 | Pass              |
| Sefwi Wiawso     | -82.69                      | -82.37 | -83.52 | -81.73 | Pass              |

**Bono Region**

| District Capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |        |        |        | Compliance Status |
|------------------|---|--------|--------|--------|-------------------|
|                  | Day 1                                     | Day 2  | Day 3  | Day 4  |                   |
| Berekum          | -81.27                                    | -81.75 | -82.17 | -81.78 | Pass              |
| Dormaa Ahenkro   | -80.38                                    | -80.46 | -79.85 | -79.69 | Pass              |
| Jinijini         | -78.85                                    | -76.70 | -77.93 | -77.29 | Pass              |
| Nkrankwanta      | -76.20                                    | -75.65 | -76.18 | -75.10 | Pass              |
| Nsawkaw          | -77.98                                    | -75.31 | -75.74 | -74.63 | Pass              |
| Odomase          | -77.53                                    | -77.61 | -74.62 | -75.75 | Pass              |
| Sunyani          | -77.89                                    | -77.51 | -76.60 | -76.34 | Pass              |
| Wemfie           | -83.04                                    | -83.15 | -84.07 | -82.63 | Pass              |
| Wenchi           | -85.85                                    | -86.35 | -84.17 | -88.51 | Pass              |

**Ahafo Region**

| District Capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |        |        |        | Compliance Status |
|------------------|---|--------|--------|--------|-------------------|
|                  | Day 1                                     | Day 2  | Day 3  | Day 4  |                   |
| Bechem           | -77.29                                    | -78.00 | -75.65 | -80.05 | Pass              |
| Duayaw Kwanta    | -74.38                                    | -75.24 | -75.43 | -75.42 | Pass              |
| Goaso            | -70.69                                    | -72.67 | -70.64 | -72.49 | Pass              |
| Hweddiem         | -75.74                                    | -74.39 | -73.85 | -75.18 | Pass              |
| Kenyasi          | -80.38                                    | -81.58 | -83.19 | -81.83 | Pass              |
| Kukuom           | -75.14                                    | -74.95 | -75.25 | -74.84 | Pass              |

**Upper East Region**

| District Capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |        |        |        | Compliance Status |
|------------------|---|--------|--------|--------|-------------------|
|                  | Day 1                                     | Day 2  | Day 3  | Day 4  |                   |
| Bongo            | -95.95                                    | -99.46 | -93.96 | -95.18 | Pass              |
| Fumbisi          | -87.39                                    | -87.63 | -85.21 | -85.28 | Pass              |
| Sandema          | -89.27                                    | -89.01 | -90.73 | -91.63 | Pass              |
| Tongo            | -89.99                                    | -92.66 | -92.51 | -91.55 | Pass              |
| Zebilla          | -90.80                                    | -90.32 | -90.78 | -90.81 | Pass              |
| Zuarungu         | -88.32                                    | -89.59 | -88.94 | -89.24 | Pass              |

**Upper West Region**

| District Capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |         |        |        | Compliance Status |
|------------------|---|---------|--------|--------|-------------------|
|                  | Day 1                                     | Day 2   | Day 3  | Day 4  |                   |
| Funsi            | -85.22                                    | -79.95  | -84.85 | -84.00 | Pass              |
| Issa             | -80.30                                    | -79.01  | -80.61 | -79.28 | Pass              |
| Jirapa           | -82.44                                    | -86.54  | -84.66 | -84.38 | Pass              |
| Lawra            | -85.63                                    | No Data | -86.63 | -85.73 | Pass              |
| Nadowli          | -81.85                                    | -84.48  | -84.48 | -83.71 | Pass              |
| Nandom           | -91.22                                    | -90.67  | -90.84 | -91.53 | Pass              |

### Western Region

| District Capital | Average RSCP<br>( $\geq -105\text{dBm}$ ) |        |        |        | Compliance Status |
|------------------|---|--------|--------|--------|-------------------|
|                  | Day 1                                     | Day 2  | Day 3  | Day 4  |                   |
| Agona Nkwanta    | -77.14                                    | -77.30 | -76.19 | -78.32 | Pass              |
| Bogoso           | -69.18                                    | -71.82 | -72.73 | -71.08 | Pass              |
| Daboase          | -79.18                                    | -82.87 | -85.51 | -87.19 | Pass              |
| Half Assini      | -77.03                                    | -78.55 | -76.75 | -79.06 | Pass              |
| Mpohor           | -74.61                                    | -77.68 | -75.53 | -77.76 | Pass              |
| Nkroful          | -77.81                                    | -79.04 | -79.88 | -81.27 | Pass              |
| Shama            | -79.04                                    | -76.66 | -77.32 | -79.52 | Pass              |
| Wassa Akropong   | -77.03                                    | -76.35 | -75.58 | -75.65 | Pass              |

## 3G Data Test

### Volta Region

| District Capital | Average Data Throughput $\geq 256\text{kbps}$<br>( $> 90\%$ ) |        |        |        | Compliance Status |
|------------------|---|--------|--------|--------|-------------------|
|                  | Day 1   | Day 2  | Day 3  | Day 4  |                   |
| Adidome          | 90.48%  | 80.00% | 69.57% | 71.79% | Pass              |
| Battor           | 80.00%  | 70.00% | 40.91% | 38.46% | Fail              |
| Dzodze           | 58.54%  | 64.00% | 65.85% | 75.76% | Fail              |
| Ho               | 89.09%  | 50.00% | 77.78% | 83.67% | Fail              |
| Sogakope         | 62.96%  | 27.72% | 86.96% | 53.33% | Fail              |

### Oti Region

| District Capital | Average Data Throughput $\geq 256\text{kbps}$<br>( $> 90\%$ ) |        |        |         | Compliance Status |
|------------------|---|--------|--------|---------|-------------------|
|                  | Day 1   | Day 2  | Day 3  | Day 4   |                   |
| Chinderi         | 61.54%  | 48.48% | 73.21% | 77.78%  | Fail              |
| Dambai           | 58.97%  | 82.86% | 98.41% | 100.00% | Pass              |
| Kete-Krachi      | 48.57%  | 77.19% | 68.18% | 82.46%  | Fail              |

### Bono East Region

| District Capital | Average Data Throughput $\geq 256\text{kbps}$<br>( $>90\%$ ) |        |        |        | Compliance Status |
|------------------|--|--------|--------|--------|-------------------|
|                  | Day 1  | Day 2  | Day 3  | Day 4  |                   |
| Atebubu          | 69.23%   | 65.00% | 42.86% | 45.45% | Fail              |
| Busunya          | 79.17%   | 80.43% | 73.77% | 65.45% | Fail              |
| Jema             | 24.14%   | 94.23% | 82.22% | 97.62% | Pass              |
| Kintampo         | 91.11%   | 91.49% | 65.22% | 78.13% | Pass              |
| Nkoranza         | 61.82%   | 60.94% | 58.62% | 78.57% | Fail              |
| Prang            | 90.32%   | 80.65% | 48.39% | 40.74% | Pass              |
| Techiman         | 74.51%   | 88.24% | 83.56% | 84.06% | Fail              |
| Yeji             | 100.00%  | 96.08% | 83.67% | 89.74% | Pass              |



### Western North Region

| District Capital | Average Data Throughput $\geq$ 256kbps<br>( $>90\%$ ) |         |        |         | Compliance Status |
|------------------|---|---------|--------|---------|-------------------|
|                  | Day 1   | Day 2   | Day 3  | Day 4   |                   |
| Bibiani          | 80.95%  | 72.22%  | 90.91% | 54.55%  | Pass              |
| Dadieso          | 100.00%   | 66.67%  | 82.61% | 90.63%  | Pass              |
| Enchi            | 31.25%  | 100.00% | 45.83% | 78.26%  | Pass              |
| Sefwi Akontombra | 55.56%  | 94.74%  | 92.86% | 59.26%  | Pass              |
| Sefwi Bodi       | 98.99%  | 88.89%  | 70.59% | 51.52%  | Pass              |
| Sefwi Juaboso    | 93.48%  | 53.13%  | 84.78% | 100.00% | Pass              |
| Sefwi Wiawso     | 96.36%  | 80.00%  | 94.20% | 72.41%  | Pass              |

### Bono Region

| District Capital | Average Data Throughput $\geq$ 256kbps<br>( $> 90\%$ ) |         |         |         | Compliance Status |
|------------------|--|---------|---------|---------|-------------------|
|                  | Day 1  | Day 2   | Day 3   | Day 4   |                   |
| Berekum          | 88.89%   | 75.56%  | 83.33%  | 68.18%  | Fail              |
| Dormaa Ahenkro   | 53.57%   | 78.26%  | 14.29%  | 47.62%  | Fail              |
| Jinijini         | 100.00%  | 100.00% | 100.00% | 100.00% | Pass              |
| Nkrankwanta      | 100.00%  | 100.00% | 100.00% | 100.00% | Pass              |
| Nsawkaw          | 100.00%  | 100.00% | 100.00% | 100.00% | Pass              |
| Odomase          | 97.92%   | 100.00% | 97.92%  | 92.73%  | Pass              |
| Sunyani          | 97.92%   | 100.00% | 98.08%  | 91.04%  | Pass              |
| Wemfie           | 96.67%   | 93.02%  | 100.00% | 96.15%  | Pass              |
| Wenchi           | 89.47%   | 100.00% | 97.62%  | 100.00% | Pass              |

### Ahafo Region

| District Capital | Average Data Throughput $\geq$ 256kbps<br>( $> 90\%$ ) |         |         |         | Compliance Status |
|------------------|--|---------|---------|---------|-------------------|
|                  | Day 1  | Day 2   | Day 3   | Day 4   |                   |
| Bechem           | 92.00%   | 97.78%  | 91.67%  | 100.00% | Pass              |
| Duayaw Kwanta    | 100.00%  | 100.00% | 100.00% | 100.00% | Pass              |
| Goaso            | 87.18%   | 28.57%  | 63.49%  | 88.61%  | Fail              |
| Hweddiem         | 98.04%   | 100.00% | 100.00% | 100.00% | Pass              |
| Kenyasi          | 98.68%   | 100.00% | 85.37%  | 100.00% | Pass              |
| Kukuom           | 100.00%  | 62.22%  | 72.22%  | 80.00%  | Pass              |

### Upper East Region

| District Capital | Average Data Throughput $\geq$ 256kbps<br>( $>90\%$ ) |        |        |        | Compliance Status |
|------------------|---|--------|--------|--------|-------------------|
|                  | Day 1   | Day 2  | Day 3  | Day 4  |                   |
| Bongo            | 63.41%  | 48.84% | 37.50% | 42.86% | Fail              |
| Fumbisi          | 40.00%  | 76.67% | 62.79% | 52.38% | Fail              |
| Sandema          | 37.93%  | 94.87% | 35.90% | 41.94% | Pass              |
| Tongo            | 50.00%  | 43.48% | 50.00% | 39.47% | Fail              |
| Zebilla          | 52.63%  | 65.52% | 50.00% | 71.79% | Fail              |
| Zuarungu         | 42.86%  | 54.76% | 59.38% | 48.48% | Fail              |

### Upper West Region

| District Capital | Average Data Throughput $\geq$ 256kbps<br>( $>90\%$ ) |         |        |         | Compliance Status |
|------------------|---|---------|--------|---------|-------------------|
|                  | Day 1   | Day 2   | Day 3  | Day 4   |                   |
| Funsi            | 100.00%   | 100.00% | 100.00 | 100.00% | Pass              |
| Issa             | 100.00%   | 100.00% | 100.00 | 100.00% | Pass              |
| Jirapa           | 60.00%  | 59.00%  | 55.56% | 68.42%  | Fail              |
| Lawra            | 100.00%   | 08.33%  | 94.44% | 57.89%  | Pass              |
| Nadowli          | 100.00%   | 100.00% | 97.87% | 100.00% | Pass              |
| Nandom           | 100.00%   | 08.33%  | 41.18% | 83.33%  | Pass              |

### Western Region

| District Capital | Average Data Throughput $\geq$ 256kbps<br>( $>90\%$ ) |         |         |         | Compliance Status |
|------------------|---|---------|---------|---------|-------------------|
|                  | Day 1   | Day 2   | Day 3   | Day 4   |                   |
| Agona Nkwanta    | 48.15%  | 73.17%  | 81.67%  | 85.96%  | Fail              |
| Bogoso           | 96.70%  | 98.15%  | 100.00% | 100.00% | Pass              |
| Daboase          | 100.00%   | 98.72%  | 98.86%  | 55.56%  | Pass              |
| Half Assini      | 100.00%   | 100.00% | 100.00% | 100.00% | Pass              |
| Mpohor           | 94.74%  | 90.20%  | 98.28%  | 92.86%  | Pass              |
| Nkroful          | 99.03%  | 98.68%  | 100.00% | 98.51%  | Pass              |
| Shama            | 100.00%   | 100.00% | 100.00% | 50.79%  | Pass              |
| Wassa Akropong   | 99.02%  | 95.79%  | 92.13%  | 92.73%  | Pass              |