



NATIONAL COMMUNICATIONS AUTHORITY

QUALITY OF SERVICE TEST RESULTS - 2020 FIRST QUARTER

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1.0. 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 Call Setup Time, Voice Quality (Mean Opinion Score), Data Throughput and 3G Coverage compliance statuses of all four (4) Mobile Network Operators in seven (7) Regions with regards to parameters outlined in their 3G Licences. The Regions monitored during this period were the Central, Eastern, Ashanti, North, North East, Savannah and Greater Accra 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:

1.1 Quality of Service Monitoring Results for AirtelTigo

1.1.1 Voice Test (CST)

Ashanti Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agogo	5.80	6.14	5.47	5.27	Pass
Agona	11.77	7.86	7.57	10.80	Pass
Akomadan	4.98	14.18	4.80	4.77	Pass
Drobonso	No Data	No Data	No Data	No Data	-
Jacobu	6.09	6.49	4.88	4.62	Pass
Juaso	10.2	5.55	5.51	5.61	Pass
Konongo	11.7	7.20	6.05	7.02	Pass
Kumawu	5.23	5.20	4.80	5.55	Pass
Mampong	6.01	5.63	6.01	6.44	Pass
Mankraso	4.71	4.83	4.57	4.86	Pass
Manso Nkwanta	4.88	4.88	No Data	5.61	Pass
Nkawie	16.67	16.55	16.30	17.52	Fail
Nsuta	5.40	5.13	5.46	5.30	Pass
Nyinahin	6.76	4.70	4.70	4.80	Pass
Obuasi	5.60	5.46	5.29	5.70	Pass
Tepa	5.67	5.50	5.99	5.46	Pass

Central Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Afransi	06.06	09.92	06.44	05.79	Pass
Agona Nsaba	05.86	05.71	05.96	12.55	Pass
Agona Swedru	06.01	12.31	05.80	07.90	Pass
Ajumako	09.75	05.00	05.16	04.80	Pass
Apam	05.30	05.41	05.48	05.34	Pass
Awutu Breku	09.78	06.62	05.74	06.30	Pass
Breman Asikuma	05.03	05.18	04.91	05.26	Pass
Essarkyir	04.77	04.70	04.71	05.24	Pass

Greater Accra Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Amasaman	18.69	15.65	19.02	15.25	Fail
Dansoman	10.84	14.15	14.71	13.43	Fail
Darkuman	14.39	15.12	15.70	14.21	Fail
Kpone	13.09	13.09	15.36	14.60	Fail
La	14.21	14.56	14.73	13.99	Fail
Ngleshie Amanfro	15.97	16.51	16.11	16.41	Fail
Nima	13.51	14.86	15.43	15.71	Fail
Nungua	16.34	15.56	15.46	16.00	Fail
Ofankor	10.14	12.13	09.53	12.18	Pass
Prampram	05.01	04.91	04.41	04.58	Pass
Tema	14.37	15.94	14.24	15.57	Fail
Weija	14.84	15.54	16.98	16.59	Fail

Northern Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bimbilla	19.34	16.74	4.86	4.70	Pass
Kpandai	18.17	4.50	4.53	4.64	Pass
Sang	8.82	13.14	15.74	9.65	Pass
Savelugu	5.63	4.40	4.24	4.32	Pass
Wulensi	4.90	4.64	5.04	4.56	Pass

North East Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bunkpurugu	5.31	9.02	7.69	5.34	Pass
Yunyoo	No 3G Coverage				-

Savannah Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Buipe	4.83	4.54	4.56	4.77	Pass
Daboya	5.90	No 3G Coverage	6.40	No 3G Coverage	Pass
Damongo	7.56	5.57	5.43	7.58	Pass

Eastern Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Aburi	9.31	12.98	9.23	6.17	Pass
Akim Oda	5.70	5.73	6.20	5.54	Pass
Akim Swedru	4.93	5.41	4.74	4.84	Pass
Akropong	9.18	14.20	9.98	9.53	Pass
Asamankese	5.70	6.35	5.38	5.91	Pass
New Abirem	5.02	5.15	5.01	5.26	Pass
Nkawkaw	5.91	6.11	6.00	6.10	Pass
Ofoase	5.82	5.04	5.21	4.73	Pass

1.1.2 Voice Quality (MOS)

Ashanti Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agogo	3.72	3.72	3.67	3.75	Pass
Agona	3.75	3.72	3.67	3.77	Pass
Akomadan	3.77	3.40	3.76	3.76	Pass
Drobonso	No Data	No Data	No Data	No Data	-
Jacobu	3.78	3.62	3.75	3.79	Pass
Juaso	3.70	3.79	3.80	3.77	Pass
Konongo	3.65	3.77	3.79	3.77	Pass
Kumawu	3.72	3.77	3.71	3.77	Pass
Mampong	3.38	3.53	3.55	3.53	Pass
Mankraso	3.78	3.75	3.78	3.77	Pass
Manso Nkwanta	3.79	3.76	No Data	3.14	Pass
Nkawie	3.46	3.56	3.51	3.32	Pass
Nsuta	3.58	3.63	3.54	3.62	Pass
Nyinahin	3.71	3.81	3.80	3.74	Pass
Obuasi	3.74	3.71	3.74	3.74	Pass
Tepa	3.48	3.44	3.49	3.25	Fail

Central Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Afransi	3.70	3.65	3.70	3.67	Pass
Agona Nsaba	3.17	3.53	3.40	2.98	Pass
Agona Swedru	3.77	3.72	3.78	3.78	Pass
Ajumako	3.76	3.71	3.78	3.79	Pass
Apam	3.76	3.77	3.78	3.78	Pass
Awutu Breku	3.50	3.71	3.72	3.69	Pass

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Breman Asikuma	3.80	3.79	3.77	3.78	Pass
Essarkyir	3.79	3.80	3.80	3.79	Pass

Greater Accra Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Amasaman	3.66	3.62	3.65	3.62	Pass
Dansoman	3.46	3.67	3.63	3.63	Pass
Darkuman	3.67	3.63	3.66	3.64	Pass
Kpone	3.71	3.64	3.68	3.60	Pass
La	3.73	3.70	3.71	3.70	Pass
Ngleshie Amanfro	3.65	3.62	3.64	3.66	Pass
Nima	3.62	3.66	3.59	3.65	Pass
Nungua	3.27	3.59	3.58	3.60	Pass
Ofankor	3.70	3.64	3.61	3.67	Pass
Prampram	3.72	3.70	3.62	3.67	Pass
Tema	3.63	3.62	3.61	3.62	Pass
Weija	3.59	3.62	3.65	3.59	Pass

Northern Region

District Capital	Average MOS (> 3.5)				Coverage Status
	Day 1	Day 2	Day 3	Day 4	
Bimbilla	3.76	3.78	3.80	3.81	Pass
Kpandai	3.41	3.81	3.82	3.81	Pass
Sang	3.77	3.77	3.77	3.75	Pass
Savelugu	3.44	3.71	3.68	3.75	Pass
Wulensi	3.81	3.81	3.80	3.81	Pass

North East Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bunkpurugu	3.79	3.78	3.76	3.80	Pass
Yunyoo	No 3G Coverage				-

Savannah Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Buipe	3.77	3.78	3.77	3.78	Pass

Daboya	3.72	No 3G Coverage	3.71	No 3G Coverage	Pass
Damongo	3.47	3.75	3.70	3.76	Pass

Eastern Region

District Capital	Average MOS (>3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Aburi	3.6	3.6	3.51	3.6	Pass
Akim Oda	3.76	3.77	3.79	3.77	Pass
Akim Swedru	3.67	3.74	3.69	3.69	Pass
Akropong	3.58	3.09	3.59	3.62	Pass
Asamankese	3.73	3.74	3.7	3.76	Pass
New Abirem	3.71	3.56	3.6	3.78	Pass
Nkawkaw	3.51	3.46	3.48	3.55	Pass
Ofoase	3.81	3.82	3.8	3.82	Pass

1.1.3. 3G Coverage Test

Ashanti Region

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agogo	-91.77	-91.86	-91.16	-91.82	Pass
Agona	-79.25	-81.02	-78.21	-77.88	Pass
Akomadan	-80.06	-95.68	-81.58	-79.88	Pass
Drobonso	-59	-115.43	-91.72	-103.95	Pass
Jacobu	-88.52	-93.74	-86.82	-89.77	Pass
Juaso	-82.34	-80.86	-80.57	-80.18	Pass
Konongo	-79.43	-80.34	-77.46	-82.30	Pass
Kumawu	-87.70	-84.91	-85.73	-86.67	Pass
Mampong	-110.38	-89.85	-89.93	-89.20	Pass
Mankraso	-79.20	-78.06	-77.87	-77.83	Pass
Manso Nkwanta	-82.10	-79.42	-109.45	-86.62	Pass
Nkawie	-91.16	-92.89	-92.62	-97.84	Pass
Nsuta	-78.38	-81.63	-81.83	-80.86	Pass
Nyinahin	-78.74	-79.12	-79.84	-80.70	Pass
Obuasi	-81.88	-83.28	-82.23	-84.83	Pass
Tepa	-88.76	-89.37	-87.91	-89.59	Pass

Central Region

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Afransi	-78.86	-75.67	-77.99	-77.38	Pass
Agona Nsaba	-81.69	-80.91	-82.00	-81.28	Pass
Agona Swedru	-81.50	-85.82	-81.51	-82.56	Pass
Ajumako	-88.15	-84.57	-80.58	-85.59	Pass
Apam	-87.40	-86.56	-86.96	-84.76	Pass
Awutu Breku	-82.52	-82.46	-81.57	-82.22	Pass
Breman Asikuma	-82.53	-82.51	-78.89	-81.00	Pass
Essarkyir	-87.93	-86.64	-87.75	-88.62	Pass

Greater Accra Region

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Amasaman	-88.54	-86.71	-87.73	-86.41	Pass
Dansoman	-80.69	-79.87	-82.07	-79.28	Pass
Darkuman	-75.67	-78.27	-77.19	-76.10	Pass
Kpone	-78.36	-79.10	-79.27	-79.31	Pass
La	-72.22	-71.76	-70.67	-71.46	Pass
Ngleshie Amanfro	-75.91	-78.44	-77.57	-81.80	Pass
Nima	-68.08	-67.39	-68.65	-67.44	Pass
Nungua	-76.74	-76.38	-76.08	-78.84	Pass
Ofankor	-74.56	-74.51	-74.64	-74.94	Pass
Prampram	-81.24	-79.93	-79.45	-78.55	Pass
Tema	-68.15	-69.40	-68.49	-68.82	Pass
Weija	-78.21	-77.23	-78.81	-77.84	Pass

Northern Region

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bimbilla	-84.55	-85.32	-84.10	-84.40	Pass
Kpandai	-78.50	-77.62	-78.39	-77.08	Pass
Sang	-75.72	-74.22	-76.33	-77.43	Pass
Savelugu	-78.89	-78.21	-81.73	-77.04	Pass
Wulensi	-76.56	-77.42	-77.86	-78.77	Pass

North East Region

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bunkpurugu	-82.05	-82.09	-84.64	-83.12	Pass
Yunyoo	No 3G Coverage				-

Savannah Region

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Buipe	-78.17	-81.28	-84.28	-79.45	Pass
Daboya	-73.53	No 3G Coverage	-74.32	No 3G Coverage	Pass
Damongo	-82.18	-81.46	-83.23	-82.68	Pass

Eastern Region

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Aburi	-86.25	-89.27	-88.88	-90.6	Pass
Akim Oda	-79.54	-79.92	-79.46	-80.08	Pass
Akim Swedru	-74.73	-72.72	-73.54	-72.65	Pass
Akropong	-93.16	-102.18	-92.01	-91.75	Pass
Asamankese	-78.57	-81.55	-82.05	-79.87	Pass
New Abirem	-75.13	-75.38	-75.23	-75.14	Pass
Nkawkaw	-82.23	-81.41	-80.62	-81.56	Pass
Ofoase	-86.07	-84.92	-84.88	-84.25	Pass

1.1.4. 3G Data Test

Ashanti Region

District Capital	Average Data Throughput $\geq 256\text{kbps}$ ($> 90\%$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agogo	100.00	100.00	100.00	100.00	Pass
Agona	100.00	100.00	100.00	100.00	Pass
Akomadan	100.00	100.00	100.00	100.00	Pass
Drobonso	No Data	No Data	No Data	No Data	-
Jacobu	100.00	100.00	100.00	100.00	Pass
Juaso	93.94	100.00	100.00	100.00	Pass
Konongo	96.00	95.45	95.45	100.00	Pass
Kumawu	100.00	94.92	98.25	100.00	Pass
Mampong	66.67	100.00	87.50	100.00	Pass
Mankraso	100.00	100.00	100.00	100.00	Pass
Manso Nkwanta	100.00	100.00	No Data	82.14	Pass
Nkawie	100.00	91.67	100.00	96.67	Pass
Nsuta	100.00	96.15	100.00	87.50	Pass
Nyinahin	100.00	100.00	100.00	100.00	Pass

District Capital	Average Data Throughput \geq 256kbps ($>$ 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Obuasi	100.00	96.97	100.00	98.28	Pass
Tepa	100.00	100.00	100.00	100.00	Pass

Central Region

District Capital	Average Data Throughput \geq 256kbps ($>$ 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Afransi	91.30	89.47	97.96	97.30	Pass
Agona Nsaba	100.00	100.00	100.00	100.00	Pass
Agona Swedru	100.00	100.00	97.92	100.00	Pass
Ajumako	100.00	100.00	100.00	98.04	Pass
Apam	100.00	97.83	100.00	100.00	Pass
Awutu Breku	100.00	100.00	100.00	100.00	Pass
Breman Asikuma	100.00	100.00	100.00	100.00	Pass
Essarkyir	100.00	100.00	100.00	100.00	Pass

Greater Accra Region

District Capital	Average Data Throughput \geq 256kbps ($>$ 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Amasaman	100.00	91.07	88.52	92.00	Pass
Dansoman	97.22	98.39	100.00	100.00	Pass
Darkuman	96.77	100.00	100.00	100.00	Pass
Kpone	96.23	100.00	100.00	100.00	Pass
La	100.00	100.00	100.00	100.00	Pass
Ngleshie Amanfro	100.00	100.00	99.08	100.00	Pass
Nima	100.00	100.00	100.00	100.00	Pass
Nungua	93.33	100.00	100.00	97.50	Pass
Ofankor	100.00	98.86	100.00	100.00	Pass
Prampram	100.00	100.00	100.00	100.00	Pass
Tema	100.00	98.11	100.00	100.00	Pass
Weija	90.91	100.00	94.44	90.00	Pass

Northern Region

District Capital	Average Data Throughput \geq 256kbps ($>$ 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bimbilla	100.00	100.00	100.00	100.00	Pass
Kpandai	90.91	100.00	100.00	100.00	Pass
Sang	100.00	100.00	100.00	100.00	Pass

District Capital	Average Data Throughput \geq 256kbps ($>$ 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Savelugu	90.00	94.59	100.00	93.33	Pass
Wulensi	65.38	100.00	100.00	100.00	Pass

North East Region

District Capital	Average Data Throughput \geq 256kbps ($>$ 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bunkpurugu	100.00	100.00	100.00	100.00	Pass
Yunyoo	No 3G Coverage				-

Savannah Region

District Capital	Average Data Throughput \geq 256kbps ($>$ 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Buipe	100.00	100.00	100.00	100.00	Pass
Daboya	100.00	100.00	100.00	100.00	Pass
Damongo	100.00	100.00	100.00	100.00	Pass

Eastern Region

District Capital	Average Data Throughput \geq 256kbps ($>$ 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Aburi	100.00	100.00	100.00	100.00	Pass
Akim Oda	100.00	100.00	100.00	100.00	Pass
Akim Swedru	100.00	100.00	100.00	100.00	Pass
Akropong	100.00	100.00	93.69	100.00	Pass
Asamankese	No Data	95.45	100.00	100.00	Pass
New Abirem	88.89	100.00	100.00	100.00	Pass
Nkawkaw	97.96	100.00	93.65	100.00	Pass
Ofoase	100.00	100.00	100.00	100.00	Pass

1.2 Quality of Service Monitoring Results for GLO

1.2.1. Voice Test (CST)

Ashanti Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agogo	4.95	13.85	6.80	4.98	Pass
Agona	14.92	19.32	7.01	12.28	Pass
Akomadan	No 3G Coverage				-
Drobonso					-
Jacobu					-
Juaso	5.61	5.32	5.43	5.36	Pass
Konongo	12.97	13.36	26.73	11.30	Fail
Kumawu	No Data	9.21	8.38	8.95	Pass
Mampong	8.58	16.93	5.11	9.22	Pass
Mankraso	No 3G Coverage				-
Manso Nkwanta					-
Nkawie	21.62	14.08	9.88	17.66	Pass
Nsuta	7.30	9.13	9.71	18.95	Pass
Nyinahin	21.62	No Data	No Data	No Data	-
Obuasi	09.10	13.42	09.66	11.03	Pass
Tepa	No 3G Coverage				-

Central Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Afransi	9.56	24.08	20.24	17.15	Pass
Agona Nsaba	No Data	No Data	No Data	No Data	-
Agona Swedru	12.44	14.73	23.49	13.19	Fail
Ajumako	No Data	06.81	05.32	06.15	Pass
Apam	15.34	12.05	12.81	12.81	Fail
Awutu Breku	10.78	11.06	12.68	11.34	Fail
Breman Asikuma	No 3G Coverage				-
Essarkyir					-

Greater Accra Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Amasaman	05.37	06.81	05.37	06.69	Pass
Dansoman	08.89	07.11	08.71	10.61	Pass
Darkuman	06.71	08.74	06.98	06.96	Pass
Kpone	05.23	06.41	06.34	09.10	Pass
La	06.41	07.32	06.09	07.17	Pass
Ngleshie Amanfro	08.76	06.45	14.14	07.37	Pass
Nima	24.00	19.34	18.71	30.59	Fail
Nungua	05.40	09.79	09.76	08.81	Pass
Ofankor	07.55	09.42	09.15	09.29	Pass
Prampram	12.23	06.33	13.41	12.03	Pass
Tema	07.70	08.00	06.79	05.85	Pass
Weija	09.41	09.62	10.89	09.92	Pass

Northern Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bimbilla	No 3G Coverage				-
Kpandai					-
Sang					-
Savelugu					-
Wulensi					-

North East Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bunkpurugu	No 3G Coverage				-
Yunyoo					-

Savannah Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Buipe	No 3G Coverage				-
Daboya					-
Damongo					-

Eastern Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Aburi	No Data	No Data	8.12	13.31	Pass
Akim Oda	7.08	9.05	7.33	12.68	Pass
Akim Swedru	No Data	No Data	No Data	No Data	-
Akropong	16.47	10.1	9.1	No Data	Pass
Asamankese	12.58	18.71	25.26	No Data	-
New Abirem	No 3G Coverage				-
Nkawkaw	9.19	No Data	7.8	No Data	Pass
Ofoase	No 3G Coverage				-

1.2.2. Voice Quality (MOS)

Ashanti Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agogo	1.01	No Data	1.49	1.87	-
Agona	2.32	2.18	No Data	2.15	-
Akomadan	No 3G Coverage				-
Drobonso					-
Jacobu					-
Juaso	2.91	2.94	2.94	2.89	Fail
Konongo	2.45	2.33	2.43	2.62	Fail
Kumawu	No Data	1.64	2.20	2.10	-
Mampong	2.81	2.52	No Data	2.66	-
Mankraso	No 3G Coverage				-
Manso Nkwanta					-
Nkawie	2.24	1.24	No Data	2.43	-
Nsuta	2.96	2.36	No Data	2.73	-
Nyinahin	No 3G Coverage				-
Obuasi	2.67	2.61	2.62	2.78	Fail
Tepa	No 3G Coverage				-

Central Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Afransi	1.99	2.12	2.01	2.08	Fail
Agona Nsaba	No Data				-
Agona Swedru	2.41	2.47	2.34	2.33	Fail
Ajumako	No Data	2.81	2.92	2.75	-
Apam	2.36	2.52	2.47	2.22	Fail
Awutu Breku	2.39	2.51	2.59	2.51	Fail
Breman Asikuma	No 3G Coverage				-
Essarkyir					-

Greater Accra Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Amasaman	2.36	2.34	2.40	2.38	Fail
Dansoman	2.53	2.57	2.57	2.56	Fail
Darkuman	2.54	2.56	2.57	2.54	Fail
Kpone	2.56	2.61	2.58	2.61	Fail
La	2.58	2.52	2.54	2.59	Fail
Ngleshie Amanfro	2.49	2.52	1.87	2.52	Fail
Nima	2.35	2.38	2.46	2.38	Fail
Nungua	2.62	2.53	2.57	2.50	Fail
Ofankor	2.60	2.59	2.55	2.60	Fail
Prampram	2.50	2.68	2.27	2.44	Fail
Tema	2.54	2.61	2.63	2.56	Fail
Weija	2.50	2.48	2.43	2.53	Fail

Northern Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bimbilla	No 3G Coverage				-
Kpandai					-
Sang					-
Savelugu					-
Wulensi					-

North East Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bunkpurugu	No 3G Coverage				-
Yunyoo					-

Savannah Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Buipe	No 3G Coverage				-
Daboya					-
Damongo					-

Eastern Region

District Capital	Average MOS (>3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Aburi	No Data	No Data	No Data	No Data	-
Akim Oda	1.01	1.01	1.01	1.01	Fail
Akim Swedru	No Data	1.01	No Data	No Data	-
Akropong	1.01	No Data	No Data	No Data	-
Asamankese	1.01	1.01	1.01	1.01	Fail
New Abirem	No 3G Coverage				-
Nkawkaw	1.01	1.01	1.01	No Data	-
Ofoase	No 3G Coverage				-

1.2.3. 3G Coverage Test

Ashanti Region

District Capital	Average RSCP (≥ -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agogo	-114.69	-111.29	-112.51	-113.36	Fail
Agona	-106.60	-106.58	-106.67	-106.34	Fail
Akomadan	No 3G Coverage				Fail
Drobonso					Fail
Jacobu					Fail
Juaso	-89.98	-89.58	-89.95	-88.36	Pass
Konongo	-86.54	-91.71	-87.21	-103.68	Pass
Kumawu	No Data	-108.29	-109.79	-105.89	-

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Mampong	-96.64	-93.91	-92.37	-90.05	Pass
Mankraso	No 3G Coverage				Fail
Manso Nkwanta					Fail
Nkawie	-113.01	-111.74	-111.26	-111.10	Fail
Nsuta	-110.55	-108.34	-110.08	-105.53	Fail
Nyinahin	No Data	-71.33	-72.37	-73.00	Pass
Obuasi	-79.55	-79.63	-81.26	-81.02	Pass
Tepa	No 3G Coverage				Fail

Central Region

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Afransi	-101.65	-100.89	-100.29	-101.69	Pass
Agona Nsaba	-107.98	-107.85	-107.82	-112.34	Fail
Agona Swedru	-85.35	-86.39	-86.05	-86.72	Pass
Ajumako	No Data	-106.86	-103.62	-105.65	Pass
Apam	-107.94	-108.60	-108.87	-109.08	Fail
Awutu Breku	-103.53	-103.48	-103.48	-104.63	Pass
Breman Asikuma	No 3G Coverage				Fail
Essarkyir					Fail

Greater Accra Region

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Amasaman	-83.62	-83.92	-82.90	-84.26	Pass
Dansoman	-84.80	-83.44	-82.64	-80.60	Pass
Darkuman	-77.51	-75.61	-75.75	-75.18	Pass
Kpone	-87.35	-84.44	-85.39	-85.84	Pass
La	-75.49	-75.83	-74.26	-74.38	Pass
Ngleshie Amanfro	-91.50	-90.64	-111.02	-91.23	Pass
Nima	-73.27	-76.29	-74.67	-75.08	Pass
Nungua	-84.78	-78.59	-78.65	-83.96	Pass
Ofankor	-82.71	-82.78	-86.44	-81.77	Pass
Prampram	-92.59	-84.81	-105.75	-99.52	Pass
Tema	-77.05	-75.31	-74.80	-74.55	Pass
Weija	-91.58	-90.79	-90.79	-90.24	Pass

Northern Region

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bimbilla	No 3G Coverage				Fail
Kpandai					Fail
Sang					Fail
Savelugu					Fail
Wulensi					Fail

North East Region

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bunkpurugu	No 3G Coverage				Fail
Yunyoo					Fail

Savannah Region

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Buipe	No 3G Coverage				Fail
Daboya					Fail
Damongo					Fail

Eastern Region

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Aburi	-108.89	-105.78	-109.94	-108.3	Fail
Akim Oda	-97.06	-97.28	-97.6	-98.76	Pass
Akim Swedru	-114.73	No 3G Coverage	-114.14	No 3G Coverage	Fail
Akropong	-109.98	-110.27	-109.13	114.14	Fail
Asamankese	-82.67	-80.24	-80.25	77.43	Pass
New Abirem	No 3G Coverage				Fail
Nkawkaw	-90.97	-96.83	-93.02	98.1	Pass
Ofoase	No 3G Coverage				Fail

1.2.4. 3G Data Test

Ashanti Region

District Capital	Average Data Throughput \geq 256kbps ($>$ 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agogo	No Data	No Data	No Data	No Data	-
Agona	66.67	75.00	100.00	50.00	Pass
Akomadan	No 3G Coverage				-
Drobonso					-
Jacobu					-
Juaso	100.00	100.00	100.00	100.00	Pass
Konongo	100.00	97.78	100.00	100.00	Pass
Kumawu	No Data	No Data	No Data	No Data	-
Mampong	0.00	100.00	100.00	100.00	Pass
Mankraso	No 3G Coverage				-
Manso Nkwanta					-
Nkawie	0.00	60.00	0.00	50.00	Fail
Nsuta	0.00	100.00	0.00	100.00	Pass
Nyinahin	No 3G Coverage				-
Obuasi	100.00	100.00	83.33	100.00	Pass
Tepa	No 3G Coverage				-

Central Region

District Capital	Average Data Throughput \geq 256kbps ($>$ 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Afransi	100.00	100.00	100.00	100.00	Pass
Agona Nsaba	No Data	No Data	No Data	No Data	-
Agona Swedru	100.00	100.00	100.00	100.00	Pass
Ajumako	No Data	100.00	100.00	96.15	Pass
Apam	100.00	100.00	100.00	100.00	Pass
Awutu Breku	90.48	66.67	80.00	100.00	Pass
Breman Asikuma	No 3G Coverage				-
Essarkyir					-

Greater Accra Region

District Capital	Average Data Throughput \geq 256kbps ($>$ 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Amasaman	100.00	100.00	100.00	98.70	Pass
Dansoman	98.36	97.96	95.45	96.15	Pass
Darkuman	100.00	100.00	84.62	96.55	Pass
Kpone	85.25	98.11	100.00	93.33	Pass

District Capital	Average Data Throughput \geq 256kbps ($>90\%$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
La	97.44	100.00	100.00	100.00	Pass
Ngleshie Amanfro	100.00	100.00	96.23	100.00	Pass
Nima	100.00	100.00	100.00	100.00	Pass
Nungua	100.00	100.00	100.00	100.00	Pass
Ofankor	79.07	95.74	70.27	93.33	Pass
Prampram	70.00	85.42	88.68	98.00	Pass
Tema	100.00	96.97	100.00	100.00	Pass
Weija	96.55	100.00	100.00	87.50	Pass

Northern Region

District Capital	Average Data Throughput \geq 256kbps ($> 90\%$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bimbilla	No 3G Coverage				-
Kpandai					-
Sang					-
Savelugu					-
Wulensi					-

North East Region

District Capital	Average Data Throughput \geq 256kbps ($> 90\%$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bunkpurugu	No 3G Coverage				-
Yunyoo					-

Savannah Region

District Capital	Average Data Throughput \geq 256kbps ($> 90\%$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Buipe	No 3G Coverage				-
Daboya					-
Damongo					-

Eastern Region

District Capital	Average Data Throughput \geq 256kbps ($>90\%$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Aburi	No Data	No Data	No Data	No Data	-
Akim Oda	100.00	100.00	100.00	No Data	Pass
Akim Swedru	No Data	No Data	100.00	No Data	Pass
Akropong	64.29	No Data	No Data	100.00	Pass
Asamankese	No Data	No Data	89.28	No Data	-
New Abirem	No 3G Coverage				-
Nkawkaw	75.00	87.76	100.00	100.00	Pass
Ofoase	No 3G Coverage				-

1.3. Quality of Service Monitoring Results for MTN

1.3.1. Voice Test (CST)

Ashanti Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agogo	10.15	6.86	8.04	8.74	Pass
Agona	7.68	7.54	7.91	6.03	Pass
Akomadan	6.53	4.94	6.15	4.71	Pass
Drobonso	4.85	4.51	5.63	3.99	Pass
Jacobu	6.30	5.89	6.07	7.03	Pass
Juaso	6.58	6.86	7.45	7.34	Pass
Konongo	6.73	7.13	7.87	6.97	Pass
Kumawu	6.55	4.67	5.83	6.95	Pass
Mampong	9.75	8.28	8.86	9.45	Pass
Mankraso	7.61	10.02	13.05	6.58	Pass
Manso Nkwanta	5.43	6.34	6.30	5.80	Pass
Nkawie	7.39	8.06	6.78	8.31	Pass
Nsuta	6.50	5.64	5.94	6.08	Pass
Nyinahin	5.60	6.20	6.51	5.96	Pass
Obuasi	12.45	10.59	8.80	8.78	Pass
Tepa	6.93	6.62	8.33	7.31	Pass

Central Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Afransi	06.47	05.89	06.35	07.99	Pass
Agona Nsaba	08.00	07.99	05.69	06.16	Pass
Agona Swedru	09.00	09.50	11.45	10.23	Pass
Ajumako	06.82	08.05	06.54	07.00	Pass
Apam	05.89	04.98	07.18	05.28	Pass
Awutu Breku	07.03	08.35	07.06	06.71	Pass
Breman Asikuma	07.98	07.55	08.34	08.12	Pass
Essarkyir	05.21	05.77	05.67	05.91	Pass

Greater Accra Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Amasaman	10.89	11.25	11.38	08.88	Pass
Dansoman	06.87	04.91	07.43	06.41	Pass
Darkuman	07.97	12.38	11.20	11.63	Pass
Kpone	05.48	06.52	06.16	06.48	Pass
La	08.76	09.60	08.33	07.76	Pass
Ngleshie Amanfro	07.56	12.56	09.43	08.60	Pass
Nima	08.66	08.88	06.69	09.65	Pass
Nungua	07.24	08.58	08.30	10.21	Pass
Ofankor	07.68	06.94	08.75	05.85	Pass
Prampram	05.96	08.00	08.29	05.43	Pass
Tema	10.18	08.84	11.43	09.24	Pass
Weija	07.82	08.91	07.67	08.10	Pass

Northern Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bimbilla	7.27	5.33	6.59	7.88	Pass
Kpandai	6.63	6.96	6.49	6.34	Pass
Sang	5.16	3.94	4.70	4.52	Pass
Savelugu	8.02	6.90	6.89	8.41	Pass
Wulensi	6.82	6.70	6.11	5.70	Pass

North East Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bunkpurugu	8.81	5.50	5.10	7.96	Pass
Yunyoo	10.38	9.42	12.71	10.99	Pass

Savannah Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Buipe	5.28	6.72	7.13	5.08	Pass
Daboya	5.16	3.96	4.46	4.48	Pass
Damongo	7.64	7.61	9.87	7.41	Pass

Eastern Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Aburi	08.71	07.54	10.52	07.96	Pass
Akim Oda	09.02	09.78	09.44	08.59	Pass
Akim Swedru	08.59	10.10	07.42	06.81	Pass
Akropong	08.03	07.80	07.49	08.30	Pass
Asamankese	08.10	09.17	09.90	09.86	Pass
New Abirem	07.45	08.60	06.77	06.43	Pass
Nkawkaw	09.20	12.41	11.09	10.88	Pass
Ofoase	05.75	07.37	05.30	04.56	Pass

1.3.2. Voice Quality (MOS)

Ashanti Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agogo	3.58	3.44	3.57	3.57	Pass
Agona	3.66	3.71	3.71	3.74	Pass
Akomadan	3.78	3.78	3.74	3.74	Pass
Drobonso	3.78	3.80	3.81	3.80	Pass
Jacobu	3.64	3.54	3.71	3.71	Pass
Juaso	3.74	3.73	3.74	3.72	Pass
Konongo	3.71	3.73	3.70	3.71	Pass
Kumawu	3.79	3.76	3.79	3.78	Pass
Mampong	3.50	3.63	3.64	3.63	Pass
Mankraso	3.73	3.75	3.76	3.75	Pass
Manso Nkwanta	3.79	3.79	3.76	3.82	Pass
Nkawie	3.71	3.73	3.74	3.66	Pass
Nsuta	3.72	3.73	3.49	3.67	Pass
Nyinahin	3.76	3.76	3.71	3.75	Pass
Obuasi	3.71	3.72	3.70	3.70	Pass
Tepa	3.74	3.70	3.74	3.77	Pass

Central Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Afransi	3.79	3.80	3.80	3.78	Pass
Agona Nsaba	3.70	3.74	3.72	3.66	Pass
Agona Swedru	3.71	3.72	3.74	3.72	Pass
Ajumako	3.72	3.74	3.73	3.72	Pass
Apam	3.80	3.80	3.80	3.78	Pass
Awutu Breku	3.75	3.76	3.77	3.73	Pass
Breman Asikuma	3.69	3.68	3.61	3.62	Pass
Essarkyir	3.78	3.80	3.74	3.80	Pass

Greater Accra Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Amasaman	3.67	3.69	3.70	3.63	Pass
Dansoman	3.67	3.69	3.66	3.69	Pass
Darkuman	3.70	3.65	3.69	3.66	Pass
Kpone	3.71	3.73	3.75	3.73	Pass
La	3.70	3.68	3.71	3.71	Pass
Ngleshie Amanfro	3.65	3.65	3.66	3.67	Pass
Nima	3.62	3.64	3.67	3.67	Pass
Nungua	3.63	3.65	3.63	3.66	Pass
Ofankor	3.70	3.68	3.70	3.67	Pass
Prampram	3.73	3.73	3.71	3.74	Pass
Tema	3.51	3.58	3.58	3.56	Pass
Weija	3.68	3.69	3.72	3.66	Pass

Northern Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bimbilla	3.76	3.80	3.73	3.76	Pass
Kpandai	3.74	3.76	3.76	3.77	Pass
Sang	3.21	3.80	3.79	3.77	Pass
Savelugu	3.65	3.62	3.66	3.74	Pass
Wulensi	3.81	3.79	3.77	3.80	Pass

North East Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bunkpurugu	3.03	3.34	3.37	2.66	Fail
Yunyoo	3.04	2.82	3.17	2.93	Fail

Savannah Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Buipe	3.73	3.72	3.75	3.75	Pass
Daboya	3.79	3.79	3.79	3.81	Pass
Damongo	3.60	3.61	3.56	3.53	Pass

Eastern Region

District Capital	Average MOS (>3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Aburi	3.59	3.69	3.58	3.48	Pass
Akim Oda	3.67	3.61	3.67	3.63	Pass
Akim Swedru	3.72	3.68	3.69	3.7	Pass
Akropong	3.64	3.67	3.68	3.63	Pass
Asamankese	3.67	3.64	3.62	3.66	Pass
New Abirem	3.73	3.75	3.78	3.76	Pass
Nkawkaw	3.63	3.64	3.61	3.65	Pass
Ofoase	3.8	3.6	3.79	3.78	Pass

1.3.3. 3G Coverage Test

Ashanti Region

District Capital	Average RSCP (≥ -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agogo	-72.90	-74.10	-72.31	-74.14	Pass
Agona	-75.15	-75.92	-77.67	-74.74	Pass
Akomadan	-73.94	-73.74	-72.82	-72.90	Pass
Drobonso	-62.75	-69.26	-66.33	-67.78	Pass
Jacobu	-80.36	-77.90	-79.02	-82.93	Pass
Juaso	-75.29	-75.47	-75.61	-75.43	Pass
Konongo	73.67	-75.55	-72.59	-7826	Pass
Kumawu	-80.15	-74.90	-75.51	-75.94	Pass
Mampong	-76.96	-76.69	-76.96	-75.56	Pass
Mankraso	-75.90	-75.96	-77.80	-76.42	Pass
Manso Nkwanta	-79.23	-75.48	-77.07	-76.18	Pass
Nkawie	-73.30	-72.39	-73.97	-77.28	Pass
Nsuta	-71.54	-76.87	-76.02	-75.40	Pass

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Nyinahin	-79.13	-79.49	-79.91	-79.04	Pass
Obuasi	-71.81	-72.84	-72.18	-72.06	Pass
Tepa	-70.10	-72.29	-69.92	-71.92	Pass

Central Region

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Afransi	-74.69	-73.71	-75.37	-76.41	Pass
Agona Nsaba	-87.90	-87.43	-86.76	-87.64	Pass
Agona Swedru	-77.17	-78.70	-78.68	-80.38	Pass
Ajumako	-78.75	-78.26	-80.03	-80.27	Pass
Apam	-75.58	-75.32	-75.18	-74.02	Pass
Awutu Breku	-76.12	-77.13	-76.23	-77.27	Pass
Breman Asikuma	-78.08	-77.10	-78.89	-80.73	Pass
Essarkyir	-75.95	-75.63	-76.07	-76.22	Pass

Greater Accra Region

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Amasaman	-92.07	-91.12	-91.52	-91.10	Pass
Dansoman	-74.71	-74.51	-75.91	-75.10	Pass
Darkuman	-78.86	-81.54	-81.68	-83.05	Pass
Kpone	-74.44	-76.04	-74.70	-77.25	Pass
La	-74.43	-73.77	-73.09	-73.42	Pass
Ngleshie Amanfro	-79.55	-78.62	-79.30	-78.24	Pass
Nima	-74.78	-76.03	-73.44	-72.52	Pass
Nungua	-78.87	-79.08	-79.17	-79.03	Pass
Ofankor	-78.41	-79.16	-78.53	-78.34	Pass
Prampram	-73.66	-73.66	-74.15	-72.90	Pass
Tema	-73.24	-72.90	-72.47	-72.13	Pass
Weija	-78.89	No Data	-79.39	-80.09	Pass

Northern Region

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bimbilla	-74.55	-79.78	-75.79	-78.96	Pass
Kpandai	-72.65	-71.59	-71.97	-72.65	Pass
Sang	-76.69	-75.50	-76.96	-76.78	Pass
Savelugu	-78.10	-77.96	-76.55	-78.43	Pass
Wulensi	-78.04	-76.39	-76.86	-78.78	Pass

North East Region

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bunkpurugu	-72.84	-72.81	-73.79	-70.93	Pass
Yunyoo	-109.88	-108.93	-109.24	-108.06	Fail

Savannah Region

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Buipe	-75.86	-76.73	-74.66	-76.32	Pass
Daboya	-68.65	-68.57	-69.01	-69.02	Pass
Damongo	-77.36	-77.61	-78.80	-79.10	Pass

Eastern Region

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Aburi	-82.48	-84.44	-83.52	-82.48	Pass
Akim Oda	-74.2	-73.96	-73.91	-74.53	Pass
Akim Swedru	-82.59	-79.88	-80.41	-81.55	Pass
Akropong	-79.34	-77.4	-78.54	-77.75	Pass
Asamankese	-77.08	-79.35	No Data	-78.32	Pass
New Abirem	-73.7	-73.92	-73.63	-73.81	Pass
Nkawkaw	-76.38	-79.57	-78.21	-77.59	Pass
Ofoase	-75.95	-74.97	-75.4	-76.68	Pass

1.3.4. 3G Data Test

Ashanti Region

District Capital	Average Data Throughput \geq 256kbps ($>$ 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agogo	100.00	100.00	100.00	98.25	Pass
Agona	100.00	100.00	100.00	100.00	Pass
Akomadan	100.00	96.43	100.00	100.00	Pass
Drobonso	100.00	100.00	100.00	100.00	Pass
Jacobu	100.00	100.00	100.00	98.33	Pass
Juaso	100.00	100.00	100.00	100.00	Pass
Konongo	100.00	100.00	100.00	100.00	Pass
Kumawu	100.00	100.00	100.00	100.00	Pass
Mampong	73.33	100.00	100.00	80.00	Pass
Mankraso	95.83	100.00	100.00	100.00	Pass
Manso Nkwanta	100.00	100.00	100.00	95.92	Pass
Nkawie	86.36	100.00	97.50	94.00	Pass
Nsuta	100.00	100.00	100.00	100.00	Pass
Nyinahin	100.00	100.00	100.00	100.00	Pass
Obuasi	98.44	98.04	100.00	89.74	Pass
Tepa	100.00	100.00	100.00	94.74	Pass

Central Region

District Capital	Average Data Throughput \geq 256kbps ($>$ 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Afransi	100.00	100.00	100.00	100.00	Pass
Agona Nsaba	100.00	100.00	100.00	100.00	Pass
Agona Swedru	95.65	100.00	96.77	90.48	Pass
Ajumako	100.00	100.00	100.00	100.00	Pass
Apam	100.00	91.30	100.00	100.00	Pass
Awutu Breku	96.67	100.00	100.00	100.00	Pass
Breman Asikuma	100.00	100.00	100.00	100.00	Pass
Essarkyir	100.00	100.00	100.00	100.00	Pass

Greater Accra Region

District Capital	Average Data Throughput \geq 256kbps ($>90\%$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Amasaman	98.18	100.00	100.00	100.00	Pass
Dansoman	100.00	100.00	100.00	100.00	Pass
Darkuman	100.00	100.00	100.00	100.00	Pass
Kpone	98.85	98.80	100.00	100.00	Pass
La	100.00	100.00	100.00	96.97	Pass
Ngleshie Amanfro	100.00	97.25	98.82	99.09	Pass
Nima	100.00	100.00	100.00	100.00	Pass
Nungua	100.00	100.00	100.00	100.00	Pass
Ofankor	100.00	100.00	100.00	97.59	Pass
Prampram	100.00	100.00	100.00	100.00	Pass
Tema	100.00	98.39	100.00	100.00	Pass
Weija	100.00	100.00	100.00	100.00	Pass

Northern Region

District Capital	Average Data Throughput \geq 256kbps ($> 90\%$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bimbilla	100.00	100.00	100.00	100.00	Pass
Kpandai	90.63	100.00	100.00	100.00	Pass
Sang	89.29	100.00	100.00	100.00	Pass
Savelugu	100.00	100.00	100.00	100.00	Pass
Wulensi	80.00	100.00	100.00	96.55	Pass

North East Region

District Capital	Average Data Throughput \geq 256kbps ($> 90\%$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bunkpurugu	97.92	100.00	93.18	100.00	Pass
Yunyoo	96.97	100.00	100.00	90.91	Pass

Savannah Region

District Capital	Average Data Throughput \geq 256kbps ($> 90\%$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Buipe	81.82	95.12	91.67	100.00	Pass
Daboya	100.00	98.53	100.00	100.00	Pass
Damongo	94.44	92.42	100.00	95.71	Pass

Eastern Region

District Capital	Average Data Throughput \geq 256kbps ($>90\%$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Aburi	100.00	100.00	100.00	100.00	Pass
Akim Oda	100.00	100.00	100.00	100.00	Pass
Akim Swedru	100.00	100.00	100.00	100.00	Pass
Akropong	100.00	100.00	100.00	100.00	Pass
Asamankese	100.00	100.00	100.00	100.00	Pass
New Abirem	100.00	100.00	100.00	100.00	Pass
Nkawkaw	75.00	75.00	100.00	100.00	Pass
Ofoase	100.00	100.00	100.00	100.00	Pass

1.4. Quality of Service Monitoring Results for Vodafone

1.4.1. Voice Test (CST)

Ashanti Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agogo	6.26	7.45	11.45	5.20	Pass
Agona	13.48	13.20	12.85	12.65	Fail
Akomadan	3.90	4.33	3.83	3.59	Pass
Drobonso	3.71	3.88	4.22	3.91	Pass
Jacobu	15.27	14.27	9.08	11.26	Pass
Juaso	4.92	4.61	4.25	3.86	Pass
Konongo	12.24	8.91	11.36	8.48	Pass
Kumawu	5.40	4.06	4.24	4.85	Pass
Mampong	10.95	12.49	11.88	12.30	Fail
Mankraso	3.40	3.59	3.48	4.23	Pass
Manso Nkwanta	4.06	3.50	5.04	4.47	Pass
Nkawie	6.32	5.29	5.80	6.41	Pass
Nsuta	4.48	3.84	4.72	4.39	Pass
Nyinahin	5.90	3.52	4.27	3.98	Pass
Obuasi	7.78	7.81	7.28	6.10	Pass
Tepa	4.77	4.58	6.45	5.39	Pass

Central Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Afransi	04.58	04.98	04.38	04.68	Pass
Agona Nsaba	04.70	04.50	05.03	04.06	Pass
Agona Swedru	06.55	05.80	06.18	05.58	Pass
Ajumako	07.16	05.08	05.99	04.62	Pass
Apam	04.79	04.21	04.71	03.54	Pass
Awutu Breku	06.04	05.83	06.05	11.60	Pass
Breman Asikuma	04.79	11.24	04.97	10.61	Pass
Essarkyir	04.44	08.65	05.59	05.68	Pass

Greater Accra Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Amasaman	12.03	12.71	13.60	13.11	Fail
Dansoman	06.21	07.70	06.80	06.22	Pass
Darkuman	08.57	14.88	13.96	12.88	Pass
Kpone	06.75	06.12	07.30	05.79	Pass
La	06.73	10.10	07.21	08.46	Pass
Ngleshie Amanfro	07.50	11.71	11.70	10.33	Pass
Nima	07.94	08.69	10.22	11.73	Pass
Nungua	09.27	09.68	07.47	09.00	Pass
Ofankor	11.23	12.36	12.95	12.11	Fail
Prampram	11.65	08.32	10.24	13.03	Pass
Tema	08.81	10.31	07.12	12.63	Pass
Weija	12.82	12.81	11.94	14.42	Fail

Northern Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bimbilla	5.48	5.86	5.15	5.12	Pass
Kpandai	5.37	5.30	8.48	4.90	Pass
Sang	7.75	10.04	5.23	4.79	Pass
Savelugu	5.83	5.80	9.60	5.75	Pass
Wulensi	3.71	3.65	4.04	3.46	Pass

North East Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bunkpurugu	5.20	3.80	18.00	3.50	Pass
Yunyoo	10.31	15.99	12.79	16.85	Fail

Savannah Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Buipe	5.09	8.51	5.82	11.94	Pass
Daboya	5.99	4.01	5.75	4.65	Pass
Damongo	5.69	5.70	5.70	5.84	Pass

Eastern Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Aburi	20.78	16.53	19.29	17.98	Fail
Akim Oda	8.34	8.95	6.20	8.66	Pass
Akim Swedru	13.24	12.04	12.94	12.11	Fail
Akropong	13.65	7.10	9.08	15.95	Pass
Asamankese	5.82	6.07	6.85	5.85	Pass
New Abirem	7.31	4.81	5.17	9.63	Pass
Nkawkaw	8.51	12.35	6.00	11.80	Pass
Ofoase	3.54	3.33	3.54	3.41	Pass

1.4.2. Voice Quality (MOS)

Ashanti Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agogo	3.39	3.61	3.59	3.66	Pass
Agona	3.64	3.64	3.47	3.62	Pass
Akomadan	3.67	3.78	3.69	3.75	Pass
Drobonso	3.74	3.80	3.81	3.67	Pass
Jacobu	3.38	3.50	3.35	3.46	Pass
Juaso	3.57	3.54	3.71	3.73	Pass
Konongo	3.38	3.46	3.61	3.47	Pass
Kumawu	3.65	3.74	3.68	3.64	Pass
Mampong	3.46	3.50	3.50	3.47	Pass
Mankraso	3.73	3.75	3.75	3.74	Pass
Manso Nkwanta	3.81	3.79	3.78	3.78	Pass
Nkawie	3.54	3.55	3.43	3.35	Pass
Nsuta	3.73	3.74	3.79	3.73	Pass
Nyinahin	3.76	3.71	3.76	3.76	Pass
Obuasi	3.52	3.63	3.56	3.57	Pass
Tepa	3.62	3.57	3.69	3.61	Pass

Central Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Afransi	3.68	3.73	3.69	3.66	Pass
Agona Nsaba	3.65	3.63	3.65	3.57	Pass
Agona Swedru	3.62	3.58	3.61	3.59	Pass
Ajumako	3.54	3.70	3.67	3.65	Pass
Apam	3.66	3.61	3.63	3.62	Pass
Awutu Breku	3.61	3.60	3.62	3.49	Pass
Breman Asikuma	3.59	3.49	3.55	3.32	Pass
Essarkyir	3.76	3.59	3.69	3.64	Pass

Greater Accra Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Amasaman	3.48	3.50	3.45	3.37	Pass
Dansoman	3.64	3.65	3.59	3.63	Pass
Darkuman	3.55	3.37	3.41	3.40	Pass
Kpone	3.56	3.56	3.61	3.60	Pass
La	3.51	3.47	3.48	3.50	Pass
Ngleshie Amanfro	3.46	3.46	3.44	3.48	Fail
Nima	3.53	3.52	3.49	3.50	Pass
Nungua	3.56	3.51	3.58	3.56	Pass
Ofankor	3.51	3.43	3.47	3.47	Pass
Prampram	3.50	3.56	3.48	3.51	Pass
Tema	3.48	3.44	3.53	3.54	Pass
Weija	3.36	3.24	3.30	3.21	Fail

Northern Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bimbilla	3.39	3.45	3.62	3.44	Pass
Kpandai	3.58	3.52	3.56	3.59	Pass
Sang	3.74	3.76	3.75	3.75	Pass
Savelugu	3.61	3.53	3.57	3.59	Pass
Wulensi	3.79	3.80	3.77	3.77	Pass

North East Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bunkpurugu	3.73	3.75	No Data	3.71	Pass
Yunyoo	3.14	3.23	3.19	3.20	Fail

Savannah Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Buipe	3.68	3.51	3.60	3.49	Pass
Daboya	3.45	3.65	3.57	3.43	Pass
Damongo	3.49	3.53	3.48	3.49	Pass

Eastern Region

District Capital	Average MOS (>3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Aburi	2.44	2.77	2.75	2.86	Fail
Akim Oda	3.39	3.5	3.47	3.47	Pass
Akim Swedru	3.58	3.47	3.52	3.7	Pass
Akropong	3.49	3.58	3.46	3.49	Pass
Asamankese	3.4	3.4	3.31	3.4	Fail
New Abirem	3.61	3.64	3.63	3.71	Pass
Nkawkaw	3.3	3.35	3.39	3.35	Fail
Ofoase	3.73	3.78	3.69	3.78	Pass

1.4.3. 3G Coverage Test

Ashanti Region

District Capital	Average RSCP (≥ -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agogo	-80.13	-81.21	-81.12	-82.83	Pass
Agona	-83.83	-87.40	-88.02	-85.84	Pass
Akomadan	-84.44	-83.88	-83.74	-82.58	Pass
Drobonso	-62.21	-69.31	-64.29	-70.50	Pass
Jacobu	-100.46	-98.93	-99.17	-102.70	Pass
Juaso	-82.90	-82.74	-82.67	-81.59	Pass
Konongo	-87.29	-84.04	-82.94	-87.48	Pass
Kumawu	-87.58	-81.99	-85.16	-85.10	Pass

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Mampong	-88.17	-88.00	-88.52	-88.29	Pass
Mankraso	-82.84	-82.18	-82.53	-82.54	Pass
Manso Nkwanta	-75.16	-75.05	-76.62	-77.03	Pass
Nkawie	-85.87	-86.02	-86.32	-90.18	Pass
Nsuta	-82.42	-83.26	-82.83	-83.22	Pass
Nyinahin	-78.32	-77.86	-76.77	-79.87	Pass
Obuasi	No Data	-77.54	-79.05	-78.78	Pass
Tepa	-87.92	-88.80	-89.39	-90.85	Pass

Central Region

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Afransi	-78.85	-78.84	-78.88	-81.70	Pass
Agona Nsaba	-84.96	-83.63	-84.80	-86.81	Pass
Agona Swedru	-86.49	-88.66	-88.27	-88.95	Pass
Ajumako	-88.67	-84.63	-87.43	-87.41	Pass
Apam	-81.64	-81.59	-81.05	-79.81	Pass
Awutu Breku	-81.01	-81.65	-81.19	-98.00	Pass
Breman Asikuma	-95.43	-95.33	-94.85	-95.17	Pass
Essarkyir	-92.77	-90.24	-93.26	-93.50	Pass

Greater Accra Region

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Amasaman	-88.65	-88.55	-88.34	-84.78	Pass
Dansoman	-69.85	-70.68	-71.32	-70.96	Pass
Darkuman	-75.37	-81.81	-78.84	-77.28	Pass
Kpone	-78.27	-77.10	-76.36	-76.49	Pass
La	-76.95	-77.39	-76.57	-77.40	Pass
Ngleshie Amanfro	-72.84	-74.15	-73.92	-73.87	Pass
Nima	-71.38	-71.32	-72.57	-72.01	Pass
Nungua	-78.99	-79.80	-79.09	-79.44	Pass
Ofankor	-74.77	-74.29	-75.71	-70.75	Pass
Prampram	-84.36	-84.54	-85.03	-86.94	Pass
Tema	-73.24	-73.56	-73.83	-73.10	Pass
Weija	-76.24	-78.97	-78.30	-76.53	Pass

Northern Region

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bimbilla	-87.72	-88.62	-85.77	-85.42	Pass
Kpandai	-91.05	-87.07	-89.42	-88.78	Pass
Sang	-76.39	-76.54	-76.31	-75.90	Pass
Savelugu	-88.95	-89.62	-90.66	-90.31	Pass
Wulensi	-76.67	-73.05	-74.02	-77.00	Pass

North East Region

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bunkpurugu	-78.15	-79.02	-97.83	-75.44	Pass
Yunyoo	-113.30	-113.48	-113.51	-113.28	Fail

Savannah Region

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Buipe	-95.53	-97.44	100.02	-97.20	Pass
Daboya	-77.60	-77.66	-78.50	-78.21	Pass
Damongo	-86.85	-87.44	-87.70	-88.53	Pass

Eastern Region

District Capital	Average RSCP ($\geq -105\text{dBm}$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Aburi	-86.85	-89.92	-89.54	-91.81	Pass
Akim Oda	-85.55	-85.42	-84.88	-88.9	Pass
Akim Swedru	-97.17	-97.66	-98.74	-97.56	Pass
Akropong	-88.42	-86.5	-87.05	-89.42	Pass
Asamankese	-84.52	-84.76	-85.48	-83.61	Pass
New Abirem	-87.47	-87.61	-92.16	-86.72	Pass
Nkawkaw	-88.74	-84.63	-86.74	-86.67	Pass
Ofoase	-81.34	-82.37	-82.29	-81.33	Pass

1.4.4. 3G Data Test

Ashanti Region

District Capital	Average Data Throughput \geq 256kbps ($>$ 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agogo	100.00	100.00	100.00	100.00	Pass
Agona	93.75	100.00	100.00	80.00	Pass
Akomadan	81.25	100.00	100.00	100.00	Pass
Drobonso	100.00	100.00	100.00	100.00	Pass
Jacobu	94.74	100.00	100.00	98.00	Pass
Juaso	100.00	100.00	100.00	100.00	Pass
Konongo	100.00	100.00	100.00	100.00	Pass
Kumawu	100.00	98.65	100.00	100.00	Pass
Mampong	88.00	100.00	100.00	66.67	Pass
Mankraso	96.00	100.00	100.00	100.00	Pass
Manso Nkwanta	100.00	100.00	100.00	100.00	Pass
Nkawie	100.00	100.00	100.00	100.00	Pass
Nsuta	100.00	100.00	100.00	100.00	Pass
Nyinahin	100.00	98.68	100.00	98.15	Pass
Obuasi	No Data	97.78	100.00	100.00	Pass
Tepa	100.00	100.00	97.67	100.00	Pass

Central Region

District Capital	Average Data Throughput \geq 256kbps ($>$ 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Afransi	100.00	98.68	100.00	100.00	Pass
Agona Nsaba	100.00	100.00	100.00	100.00	Pass
Agona Swedru	100.00	100.00	100.00	100.00	Pass
Ajumako	100.00	100.00	100.00	100.00	Pass
Apam	100.00	100.00	100.00	100.00	Pass
Awutu Breku	100.00	100.00	100.00	100.00	Pass
Breman Asikuma	90.48	100.00	100.00	98.39	Pass
Essarkyir	100.00	100.00	100.00	100.00	Pass

Greater Accra Region

District Capital	Average Data Throughput \geq 256kbps ($>$ 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Amasaman	63.64	42.86	82.98	80.00	Fail
Dansoman	92.00	98.53	94.59	100.00	Pass
Darkuman	97.37	100.00	100.00	100.00	Pass
Kpone	98.63	100.00	100.00	100.00	Pass

District Capital	Average Data Throughput \geq 256kbps ($>90\%$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
La	100.00	100.00	100.00	100.00	Pass
Ngleshie Amanfro	100.00	100.00	100.00	100.00	Pass
Nima	100.00	100.00	100.00	100.00	Pass
Nungua	100.00	100.00	100.00	100.00	Pass
Ofankor	100.00	100.00	100.00	100.00	Pass
Prampram	100.00	100.00	100.00	100.00	Pass
Tema	100.00	100.00	100.00	100.00	Pass
Weija	96.77	100.00	92.86	100.00	Pass

Northern Region

District Capital	Average Data Throughput \geq 256kbps ($> 90\%$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bimbilla	100.00	100.00	100.00	100.00	Pass
Kpandai	100.00	100.00	100.00	98.08	Pass
Sang	100.00	98.51	100.00	100.00	Pass
Savelugu	100.00	100.00	100.00	100.00	Pass
Wulensi	100.00	100.00	100.00	100.00	Pass

North East Region

District Capital	Average Data Throughput \geq 256kbps ($> 90\%$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bunkpurugu	100.00	100.00	100.00	100.00	Pass
Yunyoo	90.32	91.67	100.00	90.91	Pass

Savannah Region

District Capital	Average Data Throughput \geq 256kbps ($> 90\%$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Buipe	100.00	100.00	100.00	100.00	Pass
Daboya	100.00	100.00	100.00	100.00	Pass
Damongo	100.00	100.00	100.00	100.00	Pass

Eastern Region

District Capital	Average Data Throughput \geq 256kbps ($>90\%$)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Aburi	100.00	94.44	100.00	66.67	Pass
Akim Oda	100.00	100.00	100.00	100.00	Pass
Akim Swedru	100.00	100.00	100.00	100.00	Pass
Akropong	100.00	100.00	100.00	100.00	Pass
Asamankese	100.00	100.00	100.00	100.00	Pass
New Abirem	100.00	100.00	100.00	100.00	Pass
Nkawkaw	100.00	100.00	100.00	100.00	Pass
Ofoase	100.00	100.00	100.00	100.00	Pass