



NATIONAL COMMUNICATIONS AUTHORITY

QUALITY OF SERVICE TEST RESULTS - 2022 FIRST QUARTER

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 Ashanti, Central, Eastern, Greater Accra, North East, Northern and Savannah 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.
- ***3G Data Throughput*** is a measure of the rate of data transfer on a 3G network. 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 -105dBm.

The details of the report are as below:

AIRTEL TIGO RESULTS

CALL SETUP TIME (CST)

Ashanti Region

District Capital	95th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agona	05.1	04.8	04.8	05.5	Pass
Akrofuom	No 3G Coverage				-
Bekwai	06.72	05.35	04.99	04.70	Pass
Drobonso	No 3G Coverage				-
Ejisu	09.1	06.3	05.7	05.5	Pass
Kumawu	05.3	05.7	05.2	05.1	Pass
Mampong	05.7	05.9	05.7	05.9	Pass
Mamponteng	08.8	08.1	06.9	09.2	Pass
Nkawie	10.3	06.3	08.3	07.8	Pass
Nsuta	05.5	05.3	05.6	05.3	Pass
Obuasi	05.08	04.63	04.97	08.95	Pass
Tepa	08.9	09.7	06.1	05.4	Pass
Tutuka	05.18	05.32	06.43	07.08	Pass

Central Region

District Capital	95th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Apam	05.30	05.30	05.10	05.60	Pass
Awutu Breku	05.40	07.70	04.90	05.20	Pass
Cape Coast	06.40	07.40	06.40	06.50	Pass
Diaso	04.50	04.60	07.90	04.80	Pass
Dunkwa-On-Offin	05.50	05.60	05.70	04.80	Pass
Potsin	10.10	20.70	07.90	13.50	Pass
Saltpond	05.00	04.90	04.50	04.40	Pass
Twifo Hemang	05.10	04.90	05.50	04.80	Pass

Eastern Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Abetifi	04.89	05.23	06.81	04.47	Pass
Aburi	08.7	06.8	07.8	10.3	Pass
Akropong	06.3	05.9	09.3	07.2	Pass
Asesewa	04.8	05.2	06.1	04.9	Pass
Donkorkrom	09.30	No Data	04.60	04.61	Pass
Kwabeng	05.11	06.28	04.84	04.40	Pass
Mpraeso	06.14	08.78	05.46	06.76	Pass
Odumase	06.4	06.7	No data	07.5	Pass
Somanya	05.2	05.1	04.9	06.7	Pass
Tease	05.34	05.00	04.76	No Data	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	
Abokobi	06.54	08.53	05.99	06.23	Pass
Adenta	09.13	07.27	07.80	06.73	Pass
Amasaman	09.94	08.61	09.02	08.51	Pass
Dansoman	05.11	08.13	05.43	06.50	Pass
Dodowa	07.15	05.59	06.08	10.13	Pass
Kokomlemle	08.29	06.30	07.26	06.59	Pass
Kpone	05.50	05.10	17.98	18.93	Pass
La	05.32	07.26	04.70	06.04	Pass
Madina	08.21	07.84	06.01	06.45	Pass
Nungua	06.95	08.10	10.26	08.43	Pass
Prampram	17.24	17.77	17.59	17.74	Fail
Sege	08.57	10.57	05.31	07.47	Pass
Sowutuom	07.35	05.01	06.38	07.40	Pass
Tema	06.11	06.54	09.12	07.64	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	
Chereponi	6.54	5.61	5.47	6.15	Pass
Walewale	5.31	5.29	4.73	5.31	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	6.90	5.62	5.61	5.11	Pass
Kpandai	4.67	5.00	4.80	4.98	Pass
Saboba	5.36	5.29	4.93	5.98	Pass
Wulensi	5.72	4.80	4.84	5.06	Pass

Savannah Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bole	4.98	5.00	4.95	6.04	Pass
Damango	5.28	7.13	5.15	5.65	Pass
Sawla	4.51	4.81	4.92	4.78	Pass

VOICE QUALITY (MOS)

Ashanti Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agona	-	3.50	3.51	3.52	Pass
Akrofuom	No 3G Coverage				-
Bekwai	3.42	3.40	3.34	3.37	Fail
Drobonso	No 3G Coverage				-
Ejisu	2.51	3.76	3.70	3.73	Pass
Kumawu	3.76	3.76	3.77	3.74	Pass
Mampong	3.77	3.75	3.75	3.74	Pass
Mamponteng	3.39	3.28	3.11	3.27	Fail
Nkawie	3.63	3.63	3.62	3.59	Pass
Nsuta	3.74	3.75	3.75	3.74	Pass
Obuasi	3.50	3.45	3.44	2.44	Pass
Tepa	2.38	2.32	3.45	3.73	Pass
Tutuka	3.47	3.34	2.49	2.16	Fail

Central Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Apam	3.77	3.73	3.78	3.75	Pass
Awutu Breku	3.74	3.73	3.75	3.74	Pass
Cape Coast	3.64	3.73	3.76	3.76	Pass
Diaso	3.80	3.80	3.79	3.81	Pass
Dunkwa-On-Offin	3.78	3.77	3.76	3.78	Pass
Potsin	3.44	3.47	3.34	3.36	Fail
Saltpond	3.76	3.78	3.76	3.76	Pass
Twifo Hemang	3.78	3.78	3.79	3.78	Pass

Eastern Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Abetifi	3.73	3.68	3.52	3.78	Pass
Aburi	3.65	3.66	3.70	3.65	Pass
Akropong	3.62	3.58	3.61	3.67	Pass
Asesewa	3.77	3.75	3.77	3.75	Pass
Donkorkrom	2.16	No Data	3.79	3.78	Pass
Kwabeng	3.58	3.47	3.79	3.80	Pass
Mpraeso	3.59	3.59	3.62	3.53	Pass
Odumase	3.50	3.64	3.52	3.75	Pass
Somanya	3.74	3.74	No Data	2.18	Pass
Tease	3.81	3.78	3.80	No Data	Pass

Greater Accra Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Abokobi	3.66	3.65	3.68	3.67	Pass
Adenta	3.60	3.62	3.62	3.59	Pass
Amasaman	3.58	3.59	3.57	3.59	Pass
Dansoman	3.70	3.71	3.73	3.73	Pass
Dodowa	3.46	3.69	3.65	3.66	Pass
Kokomlemle	3.61	3.62	3.54	3.61	Pass
Kpone	3.66	3.62	3.67	3.63	Pass
La	3.71	3.69	3.71	3.68	Pass
Madina	3.65	3.66	3.66	3.64	Pass
Nungua	3.63	3.65	3.54	3.59	Pass
Prampram	3.71	3.75	3.72	3.74	Pass
Sege	2.38	2.30	3.70	3.09	Pass
Sowutuom	3.67	3.68	3.67	3.66	Pass
Tema	3.58	3.61	3.56	3.61	Pass

North East Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Chereponi	3.68	3.50	3.66	3.60	Pass
Walewale	3.76	3.77	3.74	3.72	Pass

Northern Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bimbilla	3.77	3.76	3.76	3.78	Pass
Kpandai	3.81	3.80	3.81	3.81	Pass
Saboba	3.68	3.41	3.66	3.54	Pass
Wulensi	3.79	3.79	3.81	3.80	Pass

Savannah Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bole	3.72	3.76	3.72	3.75	Pass
Damango	3.72	3.73	3.74	3.75	Pass
Sawla	3.81	3.80	3.80	3.80	Pass

3G DATA THROUGHPUT

Ashanti Region

District Capital	Average Data Throughput ≥ 256kbps (> 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agona	100	100	100	100	Pass
Akrofuom	40	94	100	88.89	Pass
Bekwai	100	100	100	100	Pass
Drobonso	No 3G	No 3G	No 3G	No 3G	-
Ejisu	100	100	100	100	Pass
Kumawu	100	100	100	100	Pass
Mampong	100	100	100	100	Pass
Mamponteng	100	100	100.00	98.65	Pass
Nkawie	94.74	89.83	66.67	52.76	Pass
Nsuta	100	100	100	100	Pass
Obuasi	100	100	55.56	91.89	Pass
Tepa	96.49	100	88.68	100	Pass
Tutuka	100	100	58.82	81.58	Pass

Central Region

District Capital	Average Data Throughput ≥ 256kbps (> 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Apam	100	100	100	100	Pass
Awutu Breku	100	98	98	89	Pass
Cape Coast	100	100	100	100	Pass
Diaso	100	44	100	100	Pass
Dunkwa-On-Offin	96	100	100	98	Pass
Potsin	78	98	100	100	Pass
Saltpond	100	100	100	100	Pass
Twifo Hemang	100	100	100	100	Pass

Eastern Region

District Capital	Average Data Throughput ≥ 256kbps (> 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Abetifi	100	100	100	100	Pass
Aburi	98	98	99	100	Pass
Akropong	100	100	100	100	Pass

District Capital	Average Data Throughput $\geq$ 256kbps (> 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Asesewa	99	100	100	100	Pass
Donkorkrom	55.17	100	100	100	Pass
Kwabeng	96.0	93.18	98.84	100	Pass
Mpraeso	100	98.75	100	96.83	Pass
Odumase	81	99	98	98	Pass
Somanya	99	100	96	76	Pass
Tease	98.28	100	100	100	Pass

Greater Accra Region

District Capital	Average Data Throughput $\geq$ 256kbps (> 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Abokobi	100.00	100.00	97.71	100.00	Pass
Adenta	100.00	95.12	99.10	100.00	Pass
Amasaman	97.37	94.87	100.00	98.82	Pass
Dansoman	100.00	100.00	100.00	94.44	Pass
Dodowa	74.07	88.52	84.00	92.00	Pass
Kokomlemle	97.85	97.44	96.77	99.11	Pass
Kpone	96.43	97.67	98.25	94.00	Pass
La	94.64	100.00	100.00	98.51	Pass
Madina	77.78	99.32	100.00	99.20	Pass
Nungua	100.00	100.00	100.00	100.00	Pass
Prampram	100.00	No Data	100.00	100.00	Pass
Sege	97.37	100.00	100.00	100.00	Pass
Sowutuom	98.18	98.25	97.89	97.20	Pass
Tema	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	
Chereponi	100	98.36	100	100	Pass
Walewale	88.10	98.70	97.62	100	Pass

Northern Region

District Capital	Average Data Throughput $\geq$ 256kbps (> 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bimbilla	100	100	100	100	Pass
Kpandai	50	100	100	100	Pass
Saboba	100	100	100	100	Pass
Wulensi	94.23	100	100	100	Pass

Savannah Region

District Capital	Average Data Throughput $\geq$ 256kbps (> 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bole	100	98.61	100	100	Pass
Damango	100	98.82	100	100	Pass
Sawla	100	100	100	100	Pass

3G COVERAGE

Ashanti Region

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agona	-79.31	-77.23	-78.88	-80.81	Pass
Akrofuom	-109.29	-105.66	-111.05	-111.61	Fail
Bekwai	-82.06	-79.13	-78.19	-81.25	Pass
Drobonso	No 3G Coverage				Fail
Ejisu	-90.80	-88.78	-90.05	-91.08	Pass
Kumawu	-84.90	84.46	-87.70	-87.76	Pass
Mampong	-87.69	-81.29	-86.38	-87.12	Pass
Mamponteng	-92.76	-93.79	-94.76	-93.68	Pass
Nkawie	-94.12	-101.39	-100.69	-101.98	Pass
Nsuta	-84.73	-86.96	-84.46	-83.03	Pass
Obuasi	-77.91	-75.10	-81.15	-77.12	Pass
Tepa	-88.25	-89.43	-89.07	-90.33	Pass
Tutuka	-78.33	-79.07	-83.58	-84.02	Pass

Central Region

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Apam	-85.80	-84.00	-84.30	-86.60	Pass
Awutu Breku	-83.10	-83.50	-84.70	-84.80	Pass
Cape Coast	-78.70	-79.10	-78.90	-78.80	Pass
Diaso	-84.00	-84.60	-86.20	-88.40	Pass
Dunkwa-On-Offin	-81.60	-83.10	-82.30	-82.30	Pass
Potsin	-107.30	-106.60	-106.40	-105.80	Fail
Saltpond	-81.10	-80.90	-81.10	-81.80	Pass
Twifo Hemang	-89.80	-89.30	-89.70	-90.60	Pass

Eastern Region

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Abetifi	-86.12	-86.11	-87.60	-85.41	Pass
Aburi	-79.3	-78.2	-78.4	-78.9	Pass
Akropong	-82.5	-79.7	-81.7	-81.8	Pass
Asesewa	-79.3	-79.0	-78.2	-81.9	Pass
Donkorkrom	-90.81	-96.54	-91.24	-87.0	Pass
Kwabeng	-74.44	-90.48	-82.66	-80.60	Pass
Mpraeso	-76.85	-80.33	-78.32	-78.44	Pass
Odumase	-69.9	-79.7	-78.2	-87.4	Pass
Somanya	-81.6	-79.8	-80.6	-81.9	Pass
Tease	-75.81	-73.81	-75.01	-	Pass

Greater Accra Region

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Abokobi	-74.63	-78.33	-79.62	-76.79	Pass
Adenta	-84.37	-82.27	-82.92	-80.87	Pass
Amasaman	-86.77	-87.34	-87.94	-87.44	Pass
Dansoman	-70.76	-75.27	-72.48	-73.01	Pass
Dodowa	-90.48	-90.48	-90.48	-90.48	Pass
Kokomlemle	-74.85	-74.74	-78.95	-76.36	Pass
Kpone	-83.06	-82.60	-82.12	-79.97	Pass
La	-69.26	-70.16	-71.79	-73.92	Pass
Madina	-74.23	-74.23	-73.95	-74.09	Pass
Nungua	-75.67	-75.38	-77.71	-78.38	Pass

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Prampram	-83.31	-81.03	-80.87	-82.45	Pass
Sege	-74.36	-73.34	-74.51	-73.42	Pass
Sowutuom	-77.25	-75.90	-77.08	-78.99	Pass
Tema	-71.74	-69.64	-70.50	-70.63	Pass

North East Region

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Chereponi	-77.63	-78.39	-76.25	-76.37	Pass
Walewale	90.55	-88.24	-86.13	-87.30	Pass

Northern Region

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bimbilla	-86.22	-84.98	-85.79	-84.92	Pass
Kpandai	-74.10	-74.94	-75.10	-74.27	Pass
Saboba	-86.12	-85.32	-84.74	-89.67	Pass
Wulensi	-76.44	-75.48	-75.52	-77.36	Pass

Savannah Region

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bole	-84.01	-84.91	-84.69	-84.94	Pass
Damango	-83.22	-84.35	-83.68	-82.62	Pass
Sawla	-74.89	-77.20	-76.86	-76.30	Pass

GLO RESULTS

CALL SETUP TIME (CST)

Ashanti Region

District Capital	95th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agona	11.1	05.9	11.2	11.0	Pass
Akrofuom	No 3G Coverage				-
Bekwai	17.02	17.02	17.61	17.87	Fail
Drobonso	No 3G Coverage				-
Ejisu	11.0	07.0	07.6	07.5	Pass
Kumawu	No 3G Coverage	18.0	No 3G Coverage		-
Mampong	14.4	13.3	17.9	23.7	Fail
Mamponteng	08.4	11.8	11.4	10.8	Pass
Nkawie	18.4	18.3	18.0	15.8	Fail
Nsuta	20.3	24.6	27.4	18.0	Fail
Obuasi	09.53	12.07	09.20	11.01	Pass
Tepa	No 3G Coverage				-
Tutuka	11.40	08.86	07.19	07.01	Pass

Central Region

District Capital	95th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Apam	12.80	24.10	17.60	24.60	Fail
Awutu Breku	16.00	04.40	No Data	12.90	Pass
Cape Coast	09.00	10.00	11.00	10.00	Pass
Diaso	No 3G Coverage				-
Dunkwa-On-Offin	14.00	15.00	12.00	15.00	Fail
Potsin	21.00	22.60	31.50	14.00	Fail
Saltpond	No Data	07.0	No Data	08.00	Pass
Twifo Hemang	No 3G Coverage				-

Eastern Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Abetifi	20.95	21.51	28.27	08.78	Pass
Aburi	15.0	11.1	10.7	13.2	Fail
Akropong	No 3G Coverage				-
Asesewa					-
Donkorkrom	No 3G Coverage				-
Kwabeng	No 3G Coverage				-
Mpraeso	07.77	06.92	35.73	06.28	Pass
Odumase	21.6	15.2	18.9	16.2	Fail
Somanya	24.5	24.4	28.9	26.3	Fail
Tease	No Data	No Data	No Data	No Data	-

Greater Accra Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Abokobi	10.91	10.98	11.76	12.14	Fail
Adenta	08.03	08.27	07.97	07.74	Pass
Amasaman	09.71	11.77	09.48	10.01	Pass
Dansoman	09.15	11.27	09.40	09.86	Pass
Dodowa	07.05	11.03	10.52	14.80	Pass
Kokomlemle	11.86	09.60	09.53	08.83	Pass
Kpone	14.55	24.10	No Data	19.31	Pass
La	09.10	06.80	07.36	07.11	Pass
Madina	09.90	12.07	11.76	11.84	Pass
Nungua	08.66	11.23	06.13	14.38	Pass
Prampram	16.69	13.26	16.52	17.94	Fail
Sege	06.61	No Data	No Data	05.01	Pass
Sowutuom	10.83	09.37	11.73	11.89	Pass
Tema	07.69	08.91	06.60	06.81	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	
Chereponi	No 3G Coverage				-
Walewale					-

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					-
Saboba					-
Wulensi					-

Savannah Region

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

VOICE QUALITY (MOS)

Ashanti Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agona	No Data	2.68	2.68	2.54	-
Akrofuom	No 3G Coverage				-
Bekwai	2.45	2.45	2.32	2.30	Fail
Drobonso	No 3G Coverage				-
Ejisu	2.48	2.61	2.64	2.67	Fail
Kumawu	No Data	2.61	No Data	1.59	-
Mampong	2.56	2.47	2.44	2.47	Fail
Mamponteng	2.37	2.37	2.51	2.53	Fail
Nkawie	2.17	2.11	2.11	1.63	Fail
Nsuta	2.45	2.44	2.48	2.34	Fail
Obuasi	2.52	2.44	2.52	2.47	Fail
Tepa	No 3G Coverage				-
Tutuka	2.37	2.61	2.50	2.65	Fail

Central Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Apam	2.19	2.11	2.20	2.12	Fail
Awutu Breku	1.93	1.90	No Data	1.98	-
Cape Coast	2.56	2.52	2.50	2.54	Fail
Diaso	No Data	No Data	No Data	No Data	Fail
Dunkwa-On-Offin	2.43	2.39	2.49	2.46	Fail
Potsin	1.89	2.27	2.00	2.73	Fail
Saltpond	No Data	2.73	No Data	2.76	Fail
Twifo Hemang	No Data	No Data	No Data	No Data	Fail

Eastern Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Abetifi	2.46	1.43	1.92	2.58	Fail
Aburi	2.09	2.07	2.11	2.38	Fail
Akropong	No 3G Coverage				-

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Asesewa					
Donkorkrom	No 3G Coverage				-
Kwabeng	No 3G Coverage				-
Mpraeso	2.77	2.73	1.51	2.70	Fail
Odumase	1.73	1.84	1.72	1.85	Fail
Somanya	1.85	1.80	1.75	1.84	Fail
Tease	No Data	No Data	No Data	No Data	-

Greater Accra Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Abokobi	2.31	2.34	2.42	2.32	Fail
Adenta	2.50	2.56	2.57	2.54	Fail
Amasaman	2.23	2.21	2.24	2.21	Fail
Dansoman	2.49	2.43	2.56	2.48	Fail
Dodowa	2.45	2.44	2.35	2.42	Fail
Kokomlemle	2.46	2.48	2.48	2.45	Fail
Kpone	2.14	2.14	No Data	2.10	-
La	2.48	2.55	2.59	2.56	Fail
Madina	2.45	2.44	2.46	2.49	Fail
Nungua	2.48	2.55	2.49	2.42	Fail
Prampram	1.91	2.13	2.19	2.08	Fail
Sege	2.16	No 3G Coverage	No 3G Coverage	2.23	-
Sowutuom	2.41	2.53	2.40	2.44	Fail
Tema	2.41	2.56	2.52	2.53	Fail

North East Region

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

Northern Region

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

Savannah Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bole	No 3G Coverage				-
Damango					-
Sawla					-

3G DATA THROUGHPUT**Ashanti Region**

District Capital	Average Data Throughput ≥ 256kbps (> 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agona	94	92.98	94.55	95.00	Pass
Akrofuom	No 3G Coverage				-
Bekwai	100	100	96.67	100	Pass
Drobonso	No 3G Coverage				-
Ejisu	100.00	100.00	100.00	98.11	Pass
Kumawu	No 3G Coverage				
Mampong	98.08	100.00	100.00	100.00	Pass
Mamponteng	87.50	81.08	76.67	93.02	Pass
Nkawie	93.33	100.00	18.18	90.00	Pass
Nsuta	85.71	84.21	69.57	96.15	Pass
Obuasi	100	100	100	92.31	Pass
Tepa	No 3G Coverage				-
Tutuka	100	95.83	100	100	Pass

Central Region

District Capital	Average Data Throughput $\geq$ 256kbps (> 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Apam	88	81	80	89	Fail
Awutu Breku	85	96	7	No Data	Pass
Cape Coast	94	94	94	96	Pass
Diaso	No 3G Coverage				-
Dunkwa-On-Offin	94	79	90	82	Pass
Potsin	53	95	20	44	Pass
Saltpond	97	100	100	100	Pass
Twifo Hemang	No 3G Coverage				-

Eastern Region

District Capital	Average Data Throughput $\geq$ 256kbps (> 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Abetifi	No 3G Coverage				-
Aburi	25	0	65	10	Fail
Akropong	No 3G Coverage				-
Asesewa					-
Donkorkrom	No 3G Coverage				-
Kwabeng	No 3G Coverage				-
Mpraeso	No 3G Coverage				-
Odumase	22	11	69	0	Fail
Somanya	0	35	0	35	Fail
Tease	No 3G Coverage				-

Greater Accra Region

District Capital	Average Data Throughput $\geq$ 256kbps (> 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Abokobi	90.74	96.55	91.89	100.00	Pass
Adenta	100.00	98.53	100.00	100.00	Pass
Amasaman	93.88	96.36	100.00	96.72	Pass
Dansoman	97.89	100.00	100.00	100.00	Pass
Dodowa	86.67	100.00	100.00	94.59	Pass
Kokomlemle	100.00	100.00	100.00	100.00	Pass
Kpone	91.11	97.50	No Data	100.00	Pass
La	98.21	100.00	100.00	94.23	Pass

District Capital	Average Data Throughput $\geq$ 256kbps (> 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Madina	98.80	98.51	98.91	100.00	Pass
Nungua	75.68	95.45	97.83	93.18	Pass
Prampram	42.31	34.78	71.43	42.86	Fail
Sege	No Data	No Data	No Data	No Data	-
Sowutuom	94.20	100.00	100.00	100.00	Pass
Tema	100.00	97.37	87.10	89.19	Pass

North East Region

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

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					
Saboba					
Wulensi					

Savannah Region

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

3G COVERAGE

Ashanti Region

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agona	-105.69	101.60	-103.96	105.31	Pass
Akrofuom	-113.67	No 3G Coverage		-115.64	Fail
Bekwai	-92.02	-91.99	-94.12	-91.68	Pass
Drobonso	No Data	No Data	No Data	No Data	Pass
Ejisu	-80.94	-76.54	-78.24	-78.88	Pass
Kumawu	-82.36	109.87	-111.92	-109.91	Pass
Mampong	-89.03	-86.65	-85.60	-86.00	Pass
Mamponteng	-95.20	-100.22	-96.12	-95.29	Pass
Nkawie	-106.71	-109.55	-109.23	-99.93	Pass
Nsuta	-98.586	-101.63	-104.49	-102.75	Pass
Obuasi	-80.09	-76.78	-79.80	-80.40	Pass
Tepa	-81.30	No 3G Coverage		-67.88	Pass
Tutuka	-79.72	-77.81	-8.89	-77.62	Pass

Central Region

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Apam	-108.00	-105.30	-106.10	-106.60	Fail
Awutu Breku	-105.30	-90.20	-101.90	104.30	Pass
Cape Coast	-85.10	-85.50	-84.30	-84.30	Pass
Diaso	No 3G Coverage				Fail
Dunkwa-On-Offin	-85.60	-87.520	-85.10	-86.10	Pass
Potsin	-94.50	-96.20	95.34	-95.10	Pass
Saltpond	-83.00	-83.10	-82.60	-84.50	Pass
Twifo Hemang	No 3G Coverage				Fail

Eastern Region

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Abetifi	No Coverage	No Coverage	No Coverage	No Coverage	Fail
Aburi	-104.1	-103.5	-102.7	-101.8	Pass
Akropong	-100.2	-102.3	-98.9	-100.4	Pass

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Asesewa	-84.7	-77.9	82.7	-82.7	Pass
Donkorkrom	No Coverage	No Coverage	No Coverage	No Coverage	Fail
Kwabeng	No Coverage	No Coverage	No Coverage	No Coverage	Fail
Mpraeso	No Coverage	No Coverage	No Coverage	No Coverage	Fail
Odumase	-112.3	-107.6	-107.9	-107.7	Fail
Somanya	-111.2	-106.7	-108.3	-107.9	Fail
Tease	No Coverage	No Coverage	No Coverage	No Coverage	Fail

Greater Accra Region

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Abokobi	-94.05	No 3G Cov.	-93.14	-94.71	Pass
Adenta	-78.32	-77.59	-76.92	-77.90	Pass
Amasaman	-81.20	-82.81	-80.83	-82.15	Pass
Dansoman	-77.37	-79.00	-75.64	-78.40	Pass
Dodowa	-92.48	-94.13	-94.31	-93.70	Pass
Kokomlemle	-71.27	-70.69	-72.38	-70.56	Pass
Kpone	-87.16	-87.18	No Data	-84.89	Pass
La	-76.06	-77.48	-74.83	-75.75	Pass
Madina	-81.42	-81.85	-81.05	-80.86	Pass
Nungua	-82.38	-89.70	-76.44	-94.00	Pass
Prampram	-107.52	-107.12	-107.01	-106.25	Fail
Sege	-113.85	No 3G Coverage		-110.82	Fail
Sowutuom	-73.36	-73.57	-74.26	-74.26	Pass
Tema	-76.36	-75.63	-76.32	-75.16	Pass

North East Region

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Chereponi	No 3G Coverage				Fail
Walewale					Fail

Northern Region

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bimbilla	No 3G Coverage				Fail
Kpandai					Fail
Saboba					Fail
Wulensi					Fail

Savannah Region

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bole	No 3G Coverage				Fail
Damango					Fail
Sawla					Fail

MTN RESULTS

CALL SETUP TIME (CST)

Ashanti Region

District Capital	95th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agona	06.6	06.2	08.4	07.5	Pass
Akrofuom	05.34	06.17	07.18	05.59	Pass
Bekwai	07.77	07.54	07.45	08.0	Pass
Drobonso	04.6	04.9	04.8	05.9	Pass
Ejisu	10.8	09.3	12.4	09.2	Pass
Kumawu	09.2	05.8	09.0	06.8	Pass
Mampong	08.8	09.6	08.0	10.6	Pass
Mamponteng	08.9	08.6	08.3	08.1	Pass
Nkawie	10.4	09.9	08.8	07.8	Pass
Nsuta	08.3	07.8	07.3	06.4	Pass
Obuasi	08.51	09.85	08.98	10.35	Pass
Tepa	11.6	07.4	08.5	08.2	Pass
Tutuka	06.95	06.61	06.44	06.38	Pass

Central Region

District Capital	95th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Apam	08.35	07.05	08.99	06.05	Pass
Awutu Breku	08.48	08.65	06.37	07.53	Pass
Cape Coast	09.38	07.90	06.90	08.81	Pass
Diaso	07.91	06.73	08.76	07.56	Pass
Dunkwa-On-Offin	11.86	09.43	11.96	09.86	Pass
Potsin	04.86	05.13	07.21	05.65	Pass
Saltpond	09.16	09.39	09.97	07.09	Pass
Twifo Hemang	05.38	06.37	06.77	07.31	Pass

Eastern Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Abetifi	06.92	08.67	07.11	07.45	Pass
Aburi	08.54	06.43	08.48	06.65	Pass
Akropong	08.30	09.73	09.34	09.15	Pass
Asesewa	05.62	08.86	09.78	06.33	Pass
Donkorkrom	09.27	08.03	07.83	09.11	Pass
Kwabeng	05.21	06.53	06.31	06.68	Pass
Mpraeso	07.97	07.27	08.23	08.01	Pass
Odumase	08.30	08.94	09.17	09.87	Pass
Somanya	08.12	09.82	No Data	10.31	Pass
Tease	06.92	07.08	06.51	No Data	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	
Abokobi	08.29	08.29	08.75	08.04	Pass
Adenta	08.65	08.60	08.00	08.47	Pass
Amasaman	09.51	09.51	07.31	08.14	Pass
Dansoman	07.61	05.65	05.65	07.91	Pass
Dodowa	08.52	09.38	10.35	12.33	Pass
Kokomlemle	07.58	09.04	08.00	08.41	Pass
Kpone	08.05	09.15	06.32	06.96	Pass
La	07.78	08.95	07.93	04.77	Pass
Madina	07.90	08.34	08.32	08.38	Pass
Nungua	10.43	07.55	10.16	08.34	Pass
Prampram	11.97	08.42	07.95	07.81	Pass
Sege	04.50	04.98	04.95	06.60	Pass
Sowutuom	08.67	09.38	08.72	08.72	Pass
Tema	08.01	08.23	07.72	07.69	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	
Chereponi	5.30	5.40	5.07	6.75	Pass
Walewale	8.96	9.17	7.82	6.80	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	7.53	6.40	5.98	9.58	Pass
Kpandai	5.97	7.85	-	9.43	Pass
Saboba	5.80	5.71	6.86	5.65	Pass
Wulensi	7.06	5.64	5.09	5.63	Pass

Savannah Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bole	6.97	6.30	8.57	5.88	Pass
Damango	7.47	7.22	5.82	6.50	Pass
Sawla	8.20	7.82	7.85	5.93	Pass

VOICE QUALITY (MOS)

Ashanti Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agona	3.74	3.73	3.71	3.73	Pass
Akrofuom	3.76	3.71	3.77	3.74	Pass
Bekwai	3.67	3.67	3.68	3.64	Pass
Drobonso	3.76	3.74	3.75	3.74	Pass
Ejisu	3.58	3.66	3.55	3.62	Pass
Kumawu	3.54	3.76	3.74	3.74	Pass
Mampong	3.66	3.63	3.63	3.65	Pass
Mamponteng	3.55	3.62	3.59	3.49	Pass
Nkawie	3.65	3.62	3.63	3.66	Pass
Nsuta	3.69	3.69	3.67	3.68	Pass
Obuasi	3.69	3.69	3.73	3.65	Pass
Tepa	3.32	3.36	3.36	3.22	Fail
Tutuka	3.70	3.65	3.66	3.69	Pass

Central Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Apam	3.68	3.68	3.70	3.71	Pass
Awutu Breku	3.71	3.66	3.71	3.70	Pass
Cape Coast	3.72	3.73	3.72	3.74	Pass
Diaso	3.68	3.64	3.68	3.69	Pass
Dunkwa-On-Offin	3.65	3.64	3.67	3.68	Pass
Potsin	3.77	3.75	3.73	3.76	Pass
Saltpond	3.69	3.72	3.67	3.70	Pass
Twifo Hemang	3.74	3.75	3.76	3.75	Pass

Eastern Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Abetifi	3.70	3.73	3.70	3.72	Pass
Aburi	3.68	3.72	3.70	3.71	Pass
Akropong	3.66	3.71	3.69	3.69	Pass

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Asesewa	3.62	2.88	2.88	3.68	Pass
Donkorkrom	3.76	3.74	3.73	3.76	Pass
Kwabeng	3.61	3.59	3.65	3.59	Pass
Mpraeso	3.64	3.72	3.67	3.66	Pass
Odumase	3.71	3.61	3.66	3.67	Pass
Somanya	3.59	3.58	3.53	3.52	Pass
Tease	3.75	3.78	3.78	No Data	Pass

Greater Accra Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Abokobi	3.68	3.68	3.68	3.72	Pass
Adenta	3.73	3.72	3.73	3.69	Pass
Amasaman	3.59	3.64	3.61	3.64	Pass
Dansoman	3.72	3.73	3.72	3.72	Pass
Dodowa	3.72	3.69	3.63	3.68	Pass
Kokomlemle	3.70	3.71	3.65	3.72	Pass
Kpone	3.72	3.72	3.71	3.71	Pass
La	3.71	3.72	3.72	3.73	Pass
Madina	3.72	3.71	3.71	3.70	Pass
Nungua	3.69	3.72	3.67	3.69	Pass
Prampram	3.72	3.76	3.76	3.75	Pass
Sege	3.71	3.76	3.74	3.73	Pass
Sowutuom	3.67	3.66	3.69	3.69	Pass
Tema	3.67	3.67	3.70	3.68	Pass

North East Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Chereponi	3.68	3.76	3.75	3.71	Pass
Walewale	3.70	3.71	3.71	3.71	Pass

Northern Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bimbilla	3.74	3.73	3.76	3.74	Pass
Kpandai	3.75	3.75	No Data	3.76	Pass
Saboba	3.77	3.78	3.77	3.80	Pass
Wulensi	3.74	3.75	3.74	3.71	Pass

Savannah Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bole	3.54	3.75	3.71	3.64	Pass
Damango	3.61	3.56	3.65	3.66	Pass
Sawla	3.68	3.67	3.71	3.69	Pass

3G DATA THROUGHPUT

Ashanti Region

District Capital	Average Data Throughput $\geq$ 256kbps (> 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agona	91.11	100.00	100.00	100.00	Pass
Akrofuom	100.00	100.00	98.28	100.00	Pass
Bekwai	100.00	97.10	100.00	100.00	Pass
Drobonso	100.00	100.00	100.00	100.00	Pass
Ejisu	98.51	100.00	100.00	100.00	Pass
Kumawu	96.15	100.00	100.00	100.00	Pass
Mampong	92.86	100.00	74.42	93.75	Pass
Mamponteng	100.00	100.00	100.00	100.00	Pass
Nkawie	95.35	100.00	98.39	100.00	Pass
Nsuta	100.00	96.77	98.18	100.00	Pass
Obuasi	100.00	100.00	100.00	100.00	Pass
Tepa	90.74	100.00	100.00	100.00	Pass
Tutuka	100.00	98.84	100.00	98.82	Pass

Central Region

District Capital	Average Data Throughput $\geq$ 256kbps (> 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Apam	100.00	93.44	100.00	100.00	Pass
Awutu Breku	100.00	100.00	95.12	100.00	Pass
Cape Coast	98.95	100.00	100.00	100.00	Pass
Diaso	96.55	82.61	93.18	68.89	Pass
Dunkwa-On-Offin	50.00	91.49	77.78	97.73	Pass
Potsin	100.00	100.00	100.00	100.00	Pass
Saltpond	100.00	85.45	98.39	100.00	Pass
Twifo Hemang	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	
Abetifi	98.41	96.59	98.70	98.04	Pass
Aburi	98.08	100.00	100.00	100.00	Pass
Akropong	100.00	100.00	100.00	100.00	Pass
Asesewa	87.76	98.68	97.83	93.33	Pass
Donkorkrom	88.00	98.78	100.00	98.84	Pass
Kwabeng	100.00	100.00	100.00	100.00	Pass
Mpraeso	97.47	98.99	100.00	100.00	Pass
Odumase	100.00	86.21	92.73	97.30	Pass
Somanya	92.41	80.43	98.81	93.98	Pass
Tease	100.00	100.00	99.17	100.00	Pass

Greater Accra Region

District Capital	Average Data Throughput $\geq$ 256kbps (> 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Abokobi	98.04	100.00	100.00	98.11	Pass
Adenta	100.00	98.18	100.00	98.25	Pass
Amasaman	96.05	96.49	96.08	100.00	Pass
Dansoman	100.00	100.00	100.00	100.00	Pass
Dodowa	100.00	100.00	95.24	100.00	Pass
Kokomlemle	100.00	100.00	100.00	100.00	Pass
Kpone	100.00	97.44	100.00	100.00	Pass
La	91.89	100.00	100.00	100.00	Pass
Madina	100.00	100.00	97.62	100.00	Pass
Nungua	100.00	100.00	100.00	100.00	Pass
Prampram	100.00	100.00	100.00	100.00	Pass
Sege	100.00	100.00	97.67	75.00	Pass
Sowutuom	93.85	100.00	98.78	100.00	Pass
Tema	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	
Chereponi	100.00	100.00	100.00	100.00	Pass
Walewale	100.00	100.00	98.75	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	100.00	Pass
Saboba	85	100.00	100.00	100.00	Pass
Wulensi	100.00	100.00	100.00	58.33	Pass

Savannah Region

District Capital	Average Data Throughput $\geq$ 256kbps (> 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bole	96.49	100.00	100.00	100.00	Pass
Damango	97.73	100.00	100.00	100.00	Pass
Sawla	60.53	58.62	86.11	92.86	Pass

3G COVERAGE**Ashanti Region**

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agona	-71.88	-72.59	-73.44	-75.11	Pass
Akrofuom	-76.54	-73.74	-79.31	-78.69	Pass
Bekwai	-106.67	-73.64	-71.56	-73.94	Pass
Drobonso	-72.42	-72.90	-72.11	-70.09	Pass
Ejisu	-74.04	-73.64	-74.77	-75.35	Pass
Kumawu	-77.64	-77.98	-77.32	-78.22	Pass
Mampong	-74.58	-73.76	-74.51	-73.47	Pass
Mamponteng	-75.69	-77.26	-77.26	-78.07	Pass
Nkawie	-74.04	-77.87	-78.00	-76.42	Pass
Nsuta	-78.02	-77.09	-77.57	-75.58	Pass
Obuasi	-65.89	-66.74	-66.41	-67.56	Pass
Tepa	-72.18	-71.89	-71.48	-72.23	Pass
Tutuka	-66.98	-69.34	-67.00	-67.43	Pass

Central Region

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Apam	-77.05	-75.13	-77.44	-78.54	Pass
Awutu Breku	-78.59	-80.08	-79.93	-79.11	Pass
Cape Coast	-75.73	-75.58	-75.52	-75.37	Pass
Diaso	-79.76	-80.77	-81.11	-82.50	Pass
Dunkwa-On-Offin	-80.92	-81.39	-80.22	-79.44	Pass
Potsin	-72.72	-73.65	-75.86	-75.88	Pass
Saltpond	-79.31	-78.51	-79.02	-78.90	Pass
Twifo Hemang	-75.56	-75.25	-75.63	-76.14	Pass

Eastern Region

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Abetifi	-83.60	-84.03	-84.77	-84.44	Pass
Aburi	-79.3	-78.2	-78.4	-78.9	Pass
Akropong	-82.5	-79.7	-81.7	-81.8	Pass
Asesewa	-79.3	-79.0	-78.2	-81.9	Pass
Donkorkrom	-82.91	-80.91	-81.13	-80.22	Pass
Kwabeng	-90.87	-87.35	-88.59	-87.19	Pass
Mpraeso	-88.14	-84.67	-85.16	-82.49	Pass
Odumase	-69.9	-79.7	-78.2	-87.4	Pass
Somanya	-81.6	-79.8	-80.6	-81.9	Pass
Tease	-79.84	-78.03	-78.12	No Data	Pass

Greater Accra Region

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Abokobi	-73.96	-72.72	-73.05	-72.20	Pass
Adenta	-71.14	-71.14	-72.86	-72.97	Pass
Amasaman	-83.99	-82.72	-81.72	-81.73	Pass
Dansoman	-72.60	-71.61	-70.16	-72.12	Pass
Dodowa	-78.21	-76.80	-76.62	-77.21	Pass
Kokomlemle	-68.29	-68.91	-68.08	-65.72	Pass
Kpone	-79.92	-80.30	-78.07	-76.60	Pass

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
La	-68.19	-70.78	-69.96	-68.41	Pass
Madina	-72.24	-71.79	-71.81	-72.62	Pass
Nungua	-71.37	-69.67	-72.25	-73.50	Pass
Prampram	-72.75	-70.71	-72.44	-70.32	Pass
Sege	-73.17	-73.48	-72.26	-71.61	Pass
Sowutuom	-73.75	-75.88	-73.60	-73.72	Pass
Tema	-72.06	-70.26	-71.15	-70.74	Pass

North East Region

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Chereponi	-72.05	-72.17	-72.17	-72.17	Pass
Walewale	-74.94	-76.00	-75.25	-75.99	Pass

Northern Region

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bimbilla	-72.51	-72.14	-72.74	-72.75	Pass
Kpandai	-70.37	-70.62	-70.49	-70.04	Pass
Saboba	-75.59	-74.82	-75.08	-74.94	Pass
Wulensi	-75.58	-74.63	-74.79	-79.27	Pass

Savannah Region

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bole	-75.02	-71.28	-72.89	-72.28	Pass
Damango	-78.18	-77.69	-78.73	-76.35	Pass
Sawla	-79.00	-81.02	-80.75	-77.81	Pass

VODAFONE RESULTS

CALL SETUP TIME (CST)

Ashanti Region

District Capital	95th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agona	04.4	06.7	14.7	08.5	Pass
Akrofuom	03.74	03.50	03.64	04.83	Pass
Bekwai	05.45	05.30	05.66	06.01	Pass
Drobonso	0.59	0.47	04.3	05.1	Pass
Ejisu	06.6	08.1	10.7	08.0	Pass
Kumawu	04.8	04.6	04.5	04.9	Pass
Mampong	13.8	12.8	11.2	14.2	Fail
Mamponteng	09.2	07.8	17.2	12.9	Pass
Nkawie	06.3	06.5	06.2	05.4	Pass
Nsuta	10.7	07.5	07.0	11.9	Pass
Obuasi	05.93	10.92	12.18	08.91	Pass
Tepa	05.2	05.9	06.3	06.4	Pass
Tutuka	07.06	07.04	07.48	06.74	Pass

Central Region

District Capital	95th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Apam	04.28	06.31	07.56	04.34	Pass
Awutu Breku	04.11	04.23	04.60	03.48	Pass
Cape Coast	06.06	06.13	06.09	05.58	Pass
Diaso	04.30	04.90	04.61	04.51	Pass
Dunkwa-On-Offin	12.13	12.65	11.85	12.40	Fail
Potsin	04.15	04.08	03.85	03.11	Pass
Saltpond	04.71	03.79	04.44	04.78	Pass
Twifo Hemang	03.06	03.93	03.81	05.06	Pass

Eastern Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Abetifi	04.08	04.37	04.52	05.28	Pass
Aburi	15.96	17.23	12.97	13.33	Fail
Akropong	11.22	06.73	07.99	09.45	Pass
Asesewa	No Data	No Data	12.64	09.33	Pass
Donkorkrom	03.97	04.23	10.90	03.67	Pass
Kwabeng	05.10	05.53	05.68	07.63	Pass
Mpraeso	04.94	06.18	04.72	03.80	Pass
Odumase	06.45	06.70	07.77	07.16	Pass
Somanya	05.70	06.70	05.60	04.77	Pass
Tease	No Data				-

Greater Accra Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Abokobi	11.83	09.60	06.76	07.46	Pass
Adenta	08.49	06.95	10.39	08.03	Pass
Amasaman	07.73	09.00	09.08	08.68	Pass
Dansoman	08.66	06.77	05.67	06.36	Pass
Dodowa	08.05	07.01	08.81	06.24	Pass
Kokomlemle	09.67	08.68	08.70	09.23	Pass
Kpone	07.01	08.61	06.04	07.31	Pass
La	05.91	06.67	06.61	06.46	Pass
Madina	No Data	07.30	10.22	07.69	Pass
Nungua	06.35	07.51	07.56	07.50	Pass
Prampram	08.71	07.71	06.62	06.10	Pass
Sege	10.07	03.86	05.21	04.27	Pass
Sowutuom	07.49	07.10	06.33	07.81	Pass
Tema	06.49	05.91	08.04	07.67	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	
Chereponi	4.66	4.29	3.64	4.14	Pass
Walewale	8.61	6.16	5.89	5.34	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	6.26	5.57	4.67	5.23	Pass
Kpandai	3.96	5.49	5.54	3.98	Pass
Saboba	3.81	7.97	5.06	4.79	Pass
Wulensi	6.25	6.07	6.25	6.25	Pass

Savannah Region

District Capital	95 th Percentile of Call Setup Time (<10 sec)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bole	4.89	4.90	4.65	5.02	Pass
Damango	6.70	6.11	6.20	9.23	Pass
Sawla	5.29	4.16	5.33	4.87	Pass

VOICE QUALITY (MOS)

Ashanti Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agona	3.65	3.63	1.81	3.05	Pass
Akrofuom	3.65	3.68	3.69	3.72	Pass
Bekwai	3.64	3.64	3.66	3.56	Pass
Drobonso	3.63	3.69	3.70	3.70	Pass
Ejisu	3.63	3.49	3.55	3.61	Pass
Kumawu	3.49	3.53	3.55	3.54	Pass
Mampong	3.15	3.19	3.26	3.15	Fail
Mamponteng	3.51	3.52	1.86	3.49	Pass
Nkawie	3.45	3.25	3.33	3.47	Fail
Nsuta	3.13	3.35	3.33	3.18	Fail
Obuasi	3.49	3.36	3.46	3.48	Fail
Tepa	3.50	3.58	3.42	3.49	Pass
Tutuka	3.34	3.34	3.33	3.34	Fail

Central Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Apam	3.47	3.06	3.33	3.55	Pass
Awutu Breku	3.67	3.67	3.69	3.72	Pass
Cape Coast	3.58	3.61	3.59	3.62	Pass
Diaso	3.55	3.41	3.63	3.47	Pass
Dunkwa-On-Offin	3.38	3.27	3.30	3.42	Fail
Potsin	3.47	3.49	3.66	3.67	Pass
Saltpond	3.51	3.62	3.55	3.65	Pass
Twifo Hemang	3.60	3.38	3.39	3.38	Pass

Eastern Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Abetifi	3.66	3.60	3.58	3.62	Pass
Aburi	3.36	3.45	3.50	3.51	Pass
Akropong	3.58	3.56	3.56	3.56	Pass
Asesewa	No data	3.33	3.21	3.65	Pass
Donkorkrom	3.68	3.65	3.60	3.69	Pass
Kwabeng	3.46	3.54	3.57	3.44	Pass
Mpraeso	3.62	3.69	3.68	3.60	Pass
Odumase	No Data	No Data	No Data	No Data	-
Somanya	No Data	No Data	No Data	No Data	-
Tease	No Data	No Data	No Data	No Data	-

Greater Accra Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Abokobi	3.58	3.52	3.53	3.47	Pass
Adenta	3.59	3.59	3.56	3.53	Pass
Amasaman	3.43	3.44	3.38	3.45	Fail
Dansoman	3.61	3.65	3.63	3.62	Pass
Dodowa	3.52	3.54	3.47	3.52	Pass
Kokomlemle	3.38	3.40	3.38	3.36	Fail
Kpone	3.63	3.55	3.56	3.51	Pass
La	3.63	3.63	3.65	3.69	Pass
Madina	No Data	3.56	3.56	3.55	Pass
Nungua	3.61	3.59	3.58	3.62	Pass
Prampram	3.55	3.51	3.61	3.54	Pass
Sege	3.57	3.63	3.61	3.58	Pass
Sowutuom	3.59	3.62	3.62	3.58	Pass
Tema	3.45	3.44	3.48	3.50	Fail

North East Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Chereponi	3.67	3.69	3.67	3.68	Pass
Walewale	3.63	3.32	3.60	3.54	Pass

Northern Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bimbilla	3.50	3.52	3.64	3.62	Pass
Kpandai	3.61	3.51	3.57	3.62	Pass
Saboba	3.58	3.45	3.43	3.38	Pass
Wulensi	3.25	3.31	3.42	3.45	Fail

Savannah Region

District Capital	Average MOS (> 3.5)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bole	3.64	3.67	3.64	3.57	Pass
Damango	3.61	3.48	3.57	3.43	Pass
Sawla	3.21	3.51	3.43	3.45	Pass

3G DATA THROUGHPUT

Ashanti Region

District Capital	Average Data Throughput $\geq$ 256kbps (> 90%)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agona	98.04	27.78	98.44	100.00	Pass
Akrofuom	100.00	100.00	100.00	100.00	Pass
Bekwai	100.00	100.00	100.00	100.00	Pass
Drobonso	100.00	100.00	100.00	100.00	Pass
Ejisu	100.00	100.00	100.00	98.53	Pass
Kumawu	100.00	100.00	100.00	100.00	Pass
Mampong	100.00	100.00	100.00	100.00	Pass
Mamponteng	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
Obuasi	100.00	99.17	100.00	100.00	Pass
Tepa	100.00	100.00	95.65	100.00	Pass
Tutuka	100.00	99.17	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	
Apam	100.00	100.00	100.00	100.00	Pass
Awutu Breku	100.00	100.00	100.00	100.00	Pass
Cape Coast	100.00	100.00	100.00	100.00	Pass
Diaso	94.44	100.00	100.00	100.00	Pass
Dunkwa-On-Offin	97.83	100.00	98.33	98.28	Pass
Potsin	100.00	100.00	100.00	100.00	Pass
Saltpond	100.00	98.59	100.00	100.00	Pass
Twifo Hemang	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	
Abetifi	100.00	100.00	100.00	100.00	Pass
Aburi	97.50	100.00	87.67	98.88	Pass
Akropong	100.00	100.00	100.00	100.00	Pass
Asesewa	100.00	100.00	100.00	100.00	Pass
Donkorkrom	100.00	No Data	100.00	100.00	Pass
Kwabeng	100.00	No Data	100.00	100.00	Pass
Mpraeso	100.00	100.00	99.02	100.00	Pass
Odumase	100.00	100.00	100.00	100.00	Pass
Somanya	100.00	100.00	100.00	100.00	Pass
Tease	No Data	98.51	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	
Abokobi	100.00	67.93	100.00	100.00	Pass
Adenta	91.43	94.12	88.96	94.32	Pass
Amasaman	97.75	100.00	100.00	98.86	Pass
Dansoman	100.00	100.00	100.00	100.00	Pass
Dodowa	96.36	100.00	96.30	96.00	Pass
Kokomlemle	100.00	100.00	99.33	100.00	Pass
Kpone	100.00	100.00	98.63	100.00	Pass
La	100.00	100.00	100.00	100.00	Pass
Madina	100.00	100.00	100.00	100.00	Pass
Nungua	100.00	100.00	100.00	100.00	Pass
Prampram	100.00	100.00	100.00	100.00	Pass
Sege	100.00	100.00	100.00	100.00	Pass
Sowutuom	100.00	100.00	100.00	100.00	Pass
Tema	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	
Chereponi	100.00	62.51	98.66	97.80	Pass
Walewale	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	100.00	100.00	100.00	100.00	Pass
Saboba	96.85	74.65	98.35	98.37	Pass
Wulensi	98.63	98.69	98.69	98.45	Pass

Savannah Region

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

3G COVERAGE

Ashanti Region

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Agona	-80.89	-82.41	-81.90	-82.21	Pass
Akrofuom	-80.97	-82.30	-82.72	-84.79	Pass
Bekwai	-81.90	-84.44	-80.73	-81.25	Pass
Drobonso	-67.61	-68.29	-69.06	-68.82	Pass
Ejisu	-79.31	-80.51	-81.60	-80.30	Pass
Kumawu	-85.37	-83.56	-85.08	-86.88	Pass
Mampong	-79.59	-78.54	-78.62	-79.13	Pass
Mampong	-89.68	-92.00	-94.05	-91.55	Pass
Nkawie	-82.11	-82.45	-83.48	-82.47	Pass
Nsuta	-77.21	-78.69	-76.49	-76.11	Pass
Obuasi	-75.88	-75.83	-75.82	-73.13	Pass
Tepa	-87.48	-88.20	-88.77	-89.57	Pass
Tutuka	-79.60	-77.04	79.20	-79.29	Pass

Central Region

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Apam	-84.04	-82.91	-83.69	-83.43	Pass
Awutu Breku	-82.03	-83.25	-83.92	-81.66	Pass
Cape Coast	-82.04	-81.05	-79.11	-79.62	Pass
Diaso	-86.22	-85.12	-85.68	-86.28	Pass
Dunkwa-On-Offin	-87.61	-87.25	-86.25	-86.81	Pass
Potsin	-81.84	-82.58	-84.43	-82.26	Pass
Saltpond	-83.88	-84.60	-86.17	-87.28	Pass
Twifo Hemang	-82.24	-82.56	-83.55	-86.37	Pass

Eastern Region

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Abetifi	-83.60	-84.03	-84.77	-84.44	Pass
Aburi	-89.08	-87.28	-85.18	-85.46	Pass
Akropong	-88.55	-88.41	-88.35	-86.40	Pass
Asesewa	-88.86	-88.97	-88.06	-90.90	Pass
Donkorkrom	No Data	-81.70	-80.50	-80.90	Pass
Kwabeng	-90.87	-87.35	-88.59	-87.19	Pass
Mpraeso	-88.14	-84.67	-85.16	-82.49	Pass
Odumase	-94.44	-92.02	-92.51	-93.55	Pass
Somanya	-81.22	-79.99	-80.25	-83.59	Pass
Tease	-76.8	-77.70	-78.2	No Data	Pass

Greater Accra Region

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Abokobi	-81.54	No Data	-83.63	-84.13	Pass
Adenta	-73.99	-72.69	-74.46	-72.00	Pass
Amasaman	-85.45	-85.65	-86.47	-86.81	Pass
Dansoman	-68.06	-69.99	-68.55	-69.19	Pass
Dodowa	-88.73	-89.75	-89.10	-89.13	Pass
Kokomlemle	-72.71	-71.53	-74.63	-73.53	Pass
Kpone	-77.69	-80.41	-77.07	-78.50	Pass
La	-76.23	-74.89	-74.53	-72.72	Pass
Madina	-71.72	-69.88	-70.12	-72.30	Pass
Nungua	-73.56	-75.07	-75.94	-72.48	Pass
Prampram	-84.97	-87.78	-84.21	-84.17	Pass
Sege	-87.07	-86.50	-88.53	-87.11	Pass
Sowutuom	-67.14	-66.94	-66.32	-68.96	Pass
Tema	-72.72	-72.72	-70.24	-69.27	Pass

North East Region

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Chereponi	-75.90	-74.67	-76.69	-76.29	Pass
Walewale	-80.55	-78.88	-79.16	-79.83	Pass

Northern Region

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bimbilla	-85.44	-84.20	-86.39	-84.98	Pass
Kpandai	-82.58	-81.21	-82.17	-82.82	Pass
Saboba	-77.98	-79.67	-78.19	-78.19	Pass
Wulensi	-80.91	-78.21	-	-82.09	Pass

Savannah Region

District Capital	Average RSCP (> -105dBm)				Compliance Status
	Day 1	Day 2	Day 3	Day 4	
Bole	-83.10	-82.99	-82.48	-82.57	Pass
Damango	-89.59	-90	-89.69	-87.74	Pass
Sawla	-79.77	-82.77	-81.99	-81.62	Pass