

# TEST REPORT

## (Part 0: SAR Characterization)

**Applicant:** Realme Chongqing Mobile Telecommunications Corp., Ltd.  
**Address:** No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China  
**Equipment Type:** Mobile Phone  
**Model Name:** RMX3921  
**Brand Name:** realme  
**FCC ID:** 2AUYFRMX3921  
**Test Standard:** FCC 47 CFR Part 2.1093  
**Sample Arrival Date:** Apr. 29, 2024  
**Test Date:** Jun. 21, 2024 - Jun. 22, 2024  
**Date of Issue:** Jun. 24, 2024

**ISSUED BY:**

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| <b>Revision History</b> |                      |                      |
|-------------------------|----------------------|----------------------|
| Version                 | Issue Date           | Revisions Content    |
| <u>Rev. 01</u>          | <u>Jun. 24, 2024</u> | <u>Initial Issue</u> |

## TABLE OF CONTENTS

|     |  |   |
|-----|--|---|
| 1   | INTRPDUCTION.....                      | 3 |
| 1.1 | Time-Averaging for SAR.....            | 3 |
| 1.2 | Nomenclature for this Report.....      | 3 |
| 1.3 | Bibliography.....                      | 3 |
| 2   | PRODUCT INFORMATION.....               | 4 |
| 2.1 | Technical Information.....             | 4 |
| 3   | SAR CHARACTERIZATIO.....               | 6 |
| 3.1 | DSI and SAR Determination.....         | 6 |
| 3.2 | SAR design Target and Uncertainty..... | 7 |
| 3.3 | SAR Char Table.....                    | 8 |

# 1 INTRODUCTION

## 1.1 Time-Averaging for SAR

The equipment under test (EUT) is a smart phone. It contains the Qualcomm modem supporting 2G/3G/4/5G WWAN technologies. These WWAN modems enable Qualcomm's Smart Transmit feature to control and manage transmitting power, in real time, and to ensure the time-averaged RF exposure is always in compliance with the FCC requirement.

Base on Qualcomm's Smart Transmit cannot operate without SAR characterization at the device level, beforehand. This report describes the procedures for the SAR char generation, and the parameters obtained from SAR characterization (referred to as SAR char, respectively) will be used as input for Smart Transmit. Both SAR char will be entered via the Embedded File System (EFS) to enable the Smart Transmit Feature.

This EUT support WLAN/BT modem, and WLAN/BT is not enabled with Qualcomm's Smart Transmit feature.

All WWAN SAR data referenced within this report has been extracted from UL's SAR report: BL-SZ2441396-701.

## 1.2 Nomenclature for this Report

| Technology            | Term              | Description   |
|-----------------------|-------------------|---|
| 2/3/4/5G<br>Sub-6 NR) | $P_{limit}$       | The time-averaged RF power which corresponds to SAR_design_target.  |
|                       | $P_{max}$         | Maximum output power  |
|                       | SAR_design_target | The design target for SAR compliance. It should be less than regulatory SAR limit to account for all device design related uncertainty. |
|                       | SAR Char          | $P_{limit}$ for all the technologies/bands for all applicable DSI   |

## 1.3 Bibliography

| Report Description                    | Report Serial Number |
|---------------------------------------|----------------------|
| FCC Part0 SAR Characterization Report | BL-SZ2441396-703     |
| FCC Part1 SAR Test Report             | BL-SZ2441396-701     |
| FCC Part 2 RF Exposure Test Report    | BL-SZ2441396-702     |

## 2 PRODUCT INFORMATION

### 2.1 Technical Information

|  |   |
|--|---|
| Network and Wireless connectivity  | <p>2G Network GSM/GPRS/EDGE 850/1900 MHz</p> <p>3G Network WCDMA/HSDPA/HSUPA Band 2/4/5</p> <p>4G Network LTE FDD Band 2/4/5/7/12/13/17/26/66<br/>LTE TDD Band 38/41</p> <p>LTE CA Uplink (UL): CA_7C, CA_38C, CA_41C</p> <p>5G Network</p> <p>SA: NR n5/n7/n38/n41/n66</p> <p>NSA(EN-DC): DC_2A_n66A, DC_5A_n7A, DC_5A_n66A, DC_7A_n5A, DC_7A_n66A, DC_26A_n41A, DC_66A_n5A, DC_66A_n7A</p> <p>Bluetooth (BR+EDR+BLE)</p> <p>2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40), VHT20/40 and 802.11ax(HE20/40)</p> <p>5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80/160) and 802.11ax(HE20/40/80/160)</p> <p>U-NII-1/2A/2C/3, GPS, GLONASS, BDS, Galileo, SBAS, NFC</p> |
| <p>Note:</p> <p>The EUT is a mobile phone, which supports dual SIM card under the same transceiver. Each SIM supports GSM, WCDMA, LTE and NR, and both SIM share the same transmitting electro circuit, NV parameters, so only SIM1 was tested in this report.</p> |   |

The requirement for the following technical information of the EUT was tested in this report:

| Operating Mode  | GSM, WCDMA, LTE, NR, 2.4G WLAN, 5G WLAN, Bluetooth |                     |                     |
|-----------------|--|---------------------|---------------------|
| Frequency Range | GSM 850  | TX: 824 ~ 849 MHz   | RX: 869 ~ 894 MHz   |
|                 | GSM 1900   | TX: 1850 ~ 1910 MHz | RX: 1930 ~ 1990 MHz |
|                 | WCDMA Band 2                                       | TX: 1850 ~ 1910 MHz | RX: 1930 ~ 1990 MHz |
|                 | WCDMA Band 4                                       | TX: 1710 ~ 1755 MHz | RX: 2110 ~ 2155 MHz |
|                 | WCDMA Band 5                                       | TX: 824 ~ 849 MHz   | RX: 869 ~ 894 MHz   |
|                 | LTE Band 2   | TX: 1850 ~ 1910 MHz | RX: 1930 ~ 1990 MHz |
|                 | LTE Band 4   | TX: 1710 ~ 1755 MHz | RX: 2110 ~ 2155 MHz |
|                 | LTE Band 5   | TX: 824 ~ 849 MHz   | RX: 869 ~ 894 MHz   |
|                 | LTE Band 7   | TX: 2500 ~ 2570 MHz | RX: 2620 ~ 2690 MHz |
|                 | LTE Band 12  | TX: 699 ~ 716 MHz   | RX: 729 ~ 746 MHz   |
|                 | LTE Band 13  | TX: 777 ~ 787 MHz   | RX: 746 ~ 756 MHz   |
|                 | LTE Band 17  | TX: 704 ~ 716 MHz   | RX: 734 ~ 746 MHz   |
|                 | LTE Band 26  | TX: 814 ~ 849 MHz   | RX: 859 ~ 894 MHz   |
|                 |  | TX: 824 ~ 849 MHz   | RX: 869 ~ 894 MHz   |
|                 | LTE Band 66  | TX: 1710 ~ 1780 MHz | RX: 2110 ~ 2180 MHz |
| LTE Band 38     | TX: 2570 ~ 2620 MHz                                | RX: 2570 ~ 2620 MHz |                     |

|                   |   |  |                     |
|-------------------|---|--|---------------------|
|                   | LTE Band 41   | TX: 2496 ~ 2690 MHz                          | RX: 2496 ~ 2690 MHz |
|                   | n5  | TX: 824 ~ 849 MHz                            | RX: 869 ~ 894 MHz   |
|                   | n7  | TX: 2500 ~ 2570 MHz                          | RX: 2620 ~ 2690 MHz |
|                   | n38   | TX: 2570 ~ 2620 MHz                          | RX: 2570 ~ 2620 MHz |
|                   | n41   | TX: 2496 ~ 2690 MHz                          | RX: 2496 ~ 2690 MHz |
|                   | n66   | TX: 1710 ~ 1780 MHz                          | RX: 2110 ~ 2180 MHz |
|                   | 802.11b/g<br>/n(HT20/HT40)/VHT<br>20/40   | 2412 ~ 2462 MHz                              |                     |
|                   | 802.11ax (HE20/40)  | 2412 ~ 2462 MHz                              |                     |
|                   | 802.11a/<br>/n(HT20/HT40)<br>/ac(VHT20/VHT40/<br>VHT80/VHT160)  | 5150 ~ 5250 MHz                              |                     |
|                   |   | 5250 ~ 5350 MHz                              |                     |
|                   |   | 5470 ~ 5725 MHz                              |                     |
|                   |   | 5725 ~ 5850 MHz                              |                     |
|                   | 802.11ax<br>(HE20/40/80/160)  | 5150 ~ 5250 MHz                              |                     |
|                   |   | 5250 ~ 5350 MHz                              |                     |
|                   |   | 5470 ~ 5725 MHz                              |                     |
|                   |   | 5725 ~ 5850 MHz                              |                     |
|                   | Bluetooth   | 2402 ~ 2480 MHz                              |                     |
|                   | NFC   | 13.56 MHz                                    |                     |
| Antenna Type      | WWAN: IFA Antenna<br>WLAN: IFA Antenna<br>Bluetooth: IFA Antenna<br>NFC: LOOP Antenna   |  |                     |
| DTM               | N/A   |  |                     |
| Hotspot Function  | Support   |  |                     |
| Power Reduction   | Support   |  |                     |
| Exposure Category | General Population/Uncontrolled exposure  |  |                     |
| Product Type      | Portable Device   |  |                     |
| EUT Type          | <input checked="" type="checkbox"/> Production unit   | <input type="checkbox"/> Identical prototype |                     |
| Note:             | 1. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4/5G transmitter for held-to-ear exposure conditions.<br>2. The device utilizes independent power reduction mechanisms for SAR compliance for the 2/3/4/5G transmitter for near to body exposure conditions.<br>3. The reduction power details please refer section 8.8. |  |                     |

### 3 SAR CHARACTERIZATION

SAR char must be generated to cover all radio configurations and usage scenarios that the wireless device supports for operating at 6 GHz or below. It will then be used as input for Smart Transmit to control and manage RF exposure for  $f < 6$  GHz.

#### 3.1 DSI and SAR Determination

This device uses different Device State Index(DSI) to configure difference time averaged power levels based on certain exposure scenarios. Depending on the detection scheme implemented in the smartphone, the worse-case SAR was determined by measurement for the relevant exposure conditions for that DSI. Detailed descriptions of the detection mechanisms are included in the description. When 1g SAR and 10g SAR exposure comparison is needed, the worst-case was determined from SAR normalized to 1g or 10g SAR limit.

This device state index(DSI) conditions used in below table represent different exposure scenarios.

| Reduced level | Receiver state         | Transmitting              | Antenna | Position  |
|---------------|------------------------|---------------------------|---------|---|
|               |                        | conditions                |         |   |
| State2        | On<br>(head scenario)  | WWAN Use Only             | Ant.0   | Head  |
|               |                        |                           | Ant.1   |   |
|               |                        |                           | Ant.4   |   |
| State4        | On<br>(head scenario)  | WWAN + 2.4GWIFI/5GWIFI/BT | Ant.0   | Head  |
|               |                        |                           | Ant.1   |   |
|               |                        |                           | Ant.4   |   |
| State6        | On<br>(head scenario)  | WWAN + 5GWIFI +BT         | Ant.0   | Head  |
|               |                        |                           | Ant.1   |   |
|               |                        |                           | Ant.4   |   |
| State1        | Off<br>(Body scenario) | WWAN Use Only             | Ant.0   | Front Side;Back Side; Left Edge;Right Edge;Top Edge;Bottom Edge |
|               |                        |                           | Ant.1   |   |
|               |                        |                           | Ant.4   |   |
| State3        | Off<br>(Body scenario) | WWAN + 2.4GWIFI/5GWIFI/BT | Ant.0   | Front Side;Back Side; Left Edge;Right Edge;Top Edge;Bottom Edge |
|               |                        |                           | Ant.1   |   |
|               |                        |                           | Ant.4   |   |
| State5        | Off<br>(Body scenario) | WWAN + 5GWIFI +BT         | Ant.0   | Front Side;Back Side; Left Edge;Right Edge;Top Edge;Bottom Edge |
|               |                        |                           | Ant.1   |   |
|               |                        |                           | Ant.4   |   |

### 3.2 SAR design Target and Uncertainty

#### Total Uncertainty:

The total device design and related uncertainty of the EUT is shown below (in dB), which includes TxAGC and device to device variation.

|                   |                     |
|-------------------|---------------------|
| Total Uncertainty | Uncertainty dB(K=2) |
|                   | 1.0                 |

To account for total uncertainty, SAR\_design\_target should be determined as:

$$\text{SAR\_design\_target} < \text{SARregulat\_limit} \times 10^{\frac{-\text{total uncertainty}}{10}}$$

#### SAR design Target:

| RF Exposure Conditions | Standalone SAR(W/Kg)<br>WWAN Only | Simultaneous SAR (W/kg)<br>WWAN + WLAN |
|------------------------|-----------------------------------|--|
| Head(1g)               | 1.0                               | 1.0                                    |
| Body-worn(1g)          | 1.0                               | 1.0                                    |
| Hotspot(1g)            | 1.0                               | 1.0                                    |
| Limbs(10g)             | 2.5                               | 2.5                                    |

### 3.3 SAR Char Table

The worst-case reported SAR for each antenna/technology/band/DSI is summarized in below table

| Mode                | Antenna | WWAN Antenna |             |                           |            |        |            |                           |            |                           |            |            |                           |            |
|---------------------|---------|--------------|-------------|---------------------------|------------|--------|------------|---------------------------|------------|---------------------------|------------|------------|---------------------------|------------|
|                     |         | Full Power   | Receiver on |                           |            |        |            | Receiver off              |            |                           |            |            |                           |            |
|                     |         |              | Standalone  | Head                      |            |        | Body-worn  |                           | Hotspot    |                           | Specific   |            |                           |            |
|                     |         |              |             | Simultaneous transmission |            |        | Standalone | Simultaneous transmission |            | Simultaneous transmission |            | Standalone | Simultaneous transmission |            |
|                     |         |              |             | +2.4GWIFI/5GWIFI/BT       | +5GWIFI+BT |        |            | +2.4GWIFI/5GWIFI/BT       | +5GWIFI+BT | +2.4GWIFI/5GWIFI/BT       | +5GWIFI+BT |            | +2.4GWIFI/5GWIFI/BT       | +5GWIFI+BT |
| Off                 | State2  | State4       | State6      | State1                    | State3     | State5 | State3     | State5                    | State1     | State3                    | State5     |            |                           |            |
| GSM 850             | Ant.0   | 33.50        | 33.50       | 33.50                     | 33.50      | 33.50  | 33.50      | 33.50                     | 33.50      | 33.50                     | 33.50      | 33.50      | 33.50                     |            |
| GPRS850 1 Tx Slot   | Ant.0   | 33.50        | 33.50       | 33.50                     | 33.50      | 33.50  | 33.50      | 33.50                     | 33.50      | 33.50                     | 33.50      | 33.50      | 33.50                     |            |
| GPRS850 2 Tx Slot   | Ant.0   | 31.50        | 31.50       | 31.50                     | 31.50      | 31.50  | 31.50      | 31.50                     | 31.50      | 31.50                     | 31.50      | 31.50      | 31.50                     |            |
| GPRS850 3 Tx Slot   | Ant.0   | 29.70        | 29.70       | 29.70                     | 29.70      | 29.70  | 29.70      | 29.70                     | 29.70      | 29.70                     | 29.70      | 29.70      | 29.70                     |            |
| GPRS850 4 Tx Slot   | Ant.0   | 28.50        | 28.50       | 28.50                     | 28.50      | 28.50  | 28.50      | 28.50                     | 28.50      | 28.50                     | 28.50      | 28.50      | 28.50                     |            |
| EGPRS850 1 Tx Slot  | Ant.0   | 28.50        | 28.50       | 28.50                     | 28.50      | 28.50  | 28.50      | 28.50                     | 28.50      | 28.50                     | 28.50      | 28.50      | 28.50                     |            |
| EGPRS850 2 Tx Slot  | Ant.0   | 26.00        | 26.00       | 26.00                     | 26.00      | 26.00  | 26.00      | 26.00                     | 26.00      | 26.00                     | 26.00      | 26.00      | 26.00                     |            |
| EGPRS850 3 Tx Slot  | Ant.0   | 24.20        | 24.20       | 24.20                     | 24.20      | 24.20  | 24.20      | 24.20                     | 24.20      | 24.20                     | 24.20      | 24.20      | 24.20                     |            |
| EGPRS850 4 Tx Slot  | Ant.0   | 23.50        | 23.50       | 23.50                     | 23.50      | 23.50  | 23.50      | 23.50                     | 23.50      | 23.50                     | 23.50      | 23.50      | 23.50                     |            |
| GSM1900             | Ant.0   | 30.50        | 30.50       | 30.50                     | 30.50      | 29.00  | 29.00      | 29.00                     | 29.00      | 29.00                     | 29.00      | 29.00      | 29.00                     |            |
| GPRS1900 1 Tx Slot  | Ant.0   | 30.50        | 30.50       | 30.50                     | 30.50      | 29.00  | 29.00      | 29.00                     | 29.00      | 29.00                     | 29.00      | 29.00      | 29.00                     |            |
| GPRS1900 2 Tx Slot  | Ant.0   | 28.50        | 28.50       | 28.50                     | 28.50      | 27.00  | 27.00      | 27.00                     | 27.00      | 27.00                     | 27.00      | 27.00      | 27.00                     |            |
| GPRS1900 3 Tx Slot  | Ant.0   | 26.70        | 26.70       | 26.70                     | 26.70      | 25.20  | 25.20      | 25.20                     | 25.20      | 25.20                     | 25.20      | 25.20      | 25.20                     |            |
| GPRS1900 4 Tx Slot  | Ant.0   | 25.50        | 25.50       | 25.50                     | 25.50      | 24.00  | 24.00      | 24.00                     | 24.00      | 24.00                     | 24.00      | 24.00      | 24.00                     |            |
| EGPRS1900 1 Tx Slot | Ant.0   | 27.50        | 27.50       | 27.50                     | 27.50      | 27.50  | 27.50      | 27.50                     | 27.50      | 27.50                     | 27.50      | 27.50      | 27.50                     |            |
| EGPRS1900 2 Tx Slot | Ant.0   | 25.00        | 25.00       | 25.00                     | 25.00      | 25.00  | 25.00      | 25.00                     | 25.00      | 25.00                     | 25.00      | 25.00      | 25.00                     |            |
| EGPRS1900 3 Tx Slot | Ant.0   | 23.20        | 23.20       | 23.20                     | 23.20      | 23.20  | 23.20      | 23.20                     | 23.20      | 23.20                     | 23.20      | 23.20      | 23.20                     |            |
| EGPRS1900 4 Tx Slot | Ant.0   | 22.50        | 22.50       | 22.50                     | 22.50      | 22.50  | 22.50      | 22.50                     | 22.50      | 22.50                     | 22.50      | 22.50      | 22.50                     |            |
| WCDMA Band2 RMC     | Ant.1   | 23.90        | 20.40       | 20.40                     | 20.40      | 21.90  | 21.90      | 21.90                     | 21.90      | 21.90                     | 21.90      | 21.90      | 21.90                     |            |
| WCDMA Band2 AMR     | Ant.1   | 23.90        | 20.40       | 20.40                     | 20.40      | 21.90  | 21.90      | 21.90                     | 21.90      | 21.90                     | 21.90      | 21.90      | 21.90                     |            |
| HSDPA Subtest-1     | Ant.1   | 23.90        | 20.40       | 20.40                     | 20.40      | 21.90  | 21.90      | 21.90                     | 21.90      | 21.90                     | 21.90      | 21.90      | 21.90                     |            |
| HSDPA Subtest-2     | Ant.1   | 23.40        | 19.90       | 19.90                     | 19.90      | 21.40  | 21.40      | 21.40                     | 21.40      | 21.40                     | 21.40      | 21.40      | 21.40                     |            |
| HSDPA Subtest-3     | Ant.1   | 23.90        | 20.40       | 20.40                     | 20.40      | 21.90  | 21.90      | 21.90                     | 21.90      | 21.90                     | 21.90      | 21.90      | 21.90                     |            |
| HSDPA Subtest-4     | Ant.1   | 22.90        | 19.40       | 19.40                     | 19.40      | 20.90  | 20.90      | 20.90                     | 20.90      | 20.90                     | 20.90      | 20.90      | 20.90                     |            |
| DC-HSDPA Subtest-1  | Ant.1   | 23.90        | 20.40       | 20.40                     | 20.40      | 21.90  | 21.90      | 21.90                     | 21.90      | 21.90                     | 21.90      | 21.90      | 21.90                     |            |
| DC-HSDPA Subtest-2  | Ant.1   | 23.40        | 19.90       | 19.90                     | 19.90      | 21.40  | 21.40      | 21.40                     | 21.40      | 21.40                     | 21.40      | 21.40      | 21.40                     |            |
| DC-HSDPA Subtest-3  | Ant.1   | 23.90        | 20.40       | 20.40                     | 20.40      | 21.90  | 21.90      | 21.90                     | 21.90      | 21.90                     | 21.90      | 21.90      | 21.90                     |            |
| DC-HSDPA Subtest-4  | Ant.1   | 22.90        | 19.40       | 19.40                     | 19.40      | 20.90  | 20.90      | 20.90                     | 20.90      | 20.90                     | 20.90      | 20.90      | 20.90                     |            |
| HSUPA Subtest-1     | Ant.1   | 22.90        | 19.40       | 19.40                     | 19.40      | 20.90  | 20.90      | 20.90                     | 20.90      | 20.90                     | 20.90      | 20.90      | 20.90                     |            |
| HSUPA Subtest-2     | Ant.1   | 22.90        | 19.40       | 19.40                     | 19.40      | 20.90  | 20.90      | 20.90                     | 20.90      | 20.90                     | 20.90      | 20.90      | 20.90                     |            |
| HSUPA Subtest-3     | Ant.1   | 23.90        | 20.40       | 20.40                     | 20.40      | 21.90  | 21.90      | 21.90                     | 21.90      | 21.90                     | 21.90      | 21.90      | 21.90                     |            |
| HSUPA Subtest-4     | Ant.1   | 22.40        | 18.90       | 18.90                     | 18.90      | 20.40  | 20.40      | 20.40                     | 20.40      | 20.40                     | 20.40      | 20.40      | 20.40                     |            |
| HSUPA Subtest-5     | Ant.1   | 23.90        | 20.40       | 20.40                     | 20.40      | 21.90  | 21.90      | 21.90                     | 21.90      | 21.90                     | 21.90      | 21.90      | 21.90                     |            |
| HSPA+(16QAM)        | Ant.1   | 21.90        | 18.40       | 18.40                     | 18.40      | 19.90  | 19.90      | 19.90                     | 19.90      | 19.90                     | 19.90      | 19.90      | 19.90                     |            |



|                    |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| WCDMA Band2 RMC    | Ant.0 | 24.00 | 24.00 | 24.00 | 24.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 |
| WCDMA Band2 AMR    | Ant.0 | 24.00 | 24.00 | 24.00 | 24.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 |
| HSDPA Subtest-1    | Ant.0 | 24.00 | 24.00 | 24.00 | 24.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 |
| HSDPA Subtest-2    | Ant.0 | 23.50 | 23.50 | 23.50 | 23.50 | 20.50 | 20.50 | 20.50 | 20.50 | 20.50 | 20.50 | 20.50 | 20.50 |
| HSDPA Subtest-3    | Ant.0 | 24.00 | 24.00 | 24.00 | 24.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 |
| HSDPA Subtest-4    | Ant.0 | 23.00 | 23.00 | 23.00 | 23.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 |
| DC-HSDPA Subtest-1 | Ant.0 | 24.00 | 24.00 | 24.00 | 24.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 |
| DC-HSDPA Subtest-2 | Ant.0 | 23.50 | 23.50 | 23.50 | 23.50 | 20.50 | 20.50 | 20.50 | 20.50 | 20.50 | 20.50 | 20.50 | 20.50 |
| DC-HSDPA Subtest-3 | Ant.0 | 24.00 | 24.00 | 24.00 | 24.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 |
| DC-HSDPA Subtest-4 | Ant.0 | 23.00 | 23.00 | 23.00 | 23.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 |
| HSUPA Subtest-1    | Ant.0 | 23.00 | 23.00 | 23.00 | 23.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 |
| HSUPA Subtest-2    | Ant.0 | 23.00 | 23.00 | 23.00 | 23.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 |
| HSUPA Subtest-3    | Ant.0 | 24.00 | 24.00 | 24.00 | 24.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 |
| HSUPA Subtest-4    | Ant.0 | 22.50 | 22.50 | 22.50 | 22.50 | 19.50 | 19.50 | 19.50 | 19.50 | 19.50 | 19.50 | 19.50 | 19.50 |
| HSUPA Subtest-5    | Ant.0 | 24.00 | 24.00 | 24.00 | 24.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 |
| HSPA+(16QAM)       | Ant.0 | 22.00 | 22.00 | 22.00 | 22.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 |
| WCDMA Band4 RMC    | Ant.1 | 23.90 | 22.40 | 22.40 | 22.40 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 |
| WCDMA Band4 AMR    | Ant.1 | 23.90 | 22.40 | 22.40 | 22.40 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 |
| HSDPA Subtest-1    | Ant.1 | 23.90 | 22.40 | 22.40 | 22.40 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 |
| HSDPA Subtest-2    | Ant.1 | 22.90 | 21.40 | 21.40 | 21.40 | 20.90 | 20.90 | 20.90 | 20.90 | 20.90 | 20.90 | 20.90 | 20.90 |
| HSDPA Subtest-3    | Ant.1 | 23.90 | 22.40 | 22.40 | 22.40 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 |
| HSDPA Subtest-4    | Ant.1 | 22.40 | 20.90 | 20.90 | 20.90 | 20.40 | 20.40 | 20.40 | 20.40 | 20.40 | 20.40 | 20.40 | 20.40 |
| DC-HSDPA Subtest-1 | Ant.1 | 23.90 | 22.40 | 22.40 | 22.40 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 |
| DC-HSDPA Subtest-2 | Ant.1 | 22.90 | 21.40 | 21.40 | 21.40 | 20.90 | 20.90 | 20.90 | 20.90 | 20.90 | 20.90 | 20.90 | 20.90 |
| DC-HSDPA Subtest-3 | Ant.1 | 23.90 | 22.40 | 22.40 | 22.40 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 |
| DC-HSDPA Subtest-4 | Ant.1 | 22.40 | 20.90 | 20.90 | 20.90 | 20.40 | 20.40 | 20.40 | 20.40 | 20.40 | 20.40 | 20.40 | 20.40 |
| HSUPA Subtest-1    | Ant.1 | 22.90 | 21.40 | 21.40 | 21.40 | 20.90 | 20.90 | 20.90 | 20.90 | 20.90 | 20.90 | 20.90 | 20.90 |
| HSUPA Subtest-2    | Ant.1 | 22.90 | 21.40 | 21.40 | 21.40 | 20.90 | 20.90 | 20.90 | 20.90 | 20.90 | 20.90 | 20.90 | 20.90 |
| HSUPA Subtest-3    | Ant.1 | 23.90 | 22.40 | 22.40 | 22.40 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 |
| HSUPA Subtest-4    | Ant.1 | 22.40 | 20.90 | 20.90 | 20.90 | 20.40 | 20.40 | 20.40 | 20.40 | 20.40 | 20.40 | 20.40 | 20.40 |
| HSUPA Subtest-5    | Ant.1 | 23.90 | 22.40 | 22.40 | 22.40 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 | 21.90 |
| HSPA+(16QAM)       | Ant.1 | 21.90 | 20.40 | 20.40 | 20.40 | 19.90 | 19.90 | 19.90 | 19.90 | 19.90 | 19.90 | 19.90 | 19.90 |
| WCDMA Band4 RMC    | Ant.0 | 24.00 | 24.00 | 24.00 | 24.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 |
| WCDMA Band4 AMR    | Ant.0 | 24.00 | 24.00 | 24.00 | 24.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 |
| HSDPA Subtest-1    | Ant.0 | 24.00 | 24.00 | 24.00 | 24.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 |
| HSDPA Subtest-2    | Ant.0 | 23.00 | 23.00 | 23.00 | 23.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 |
| HSDPA Subtest-3    | Ant.0 | 24.00 | 24.00 | 24.00 | 24.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 |
| HSDPA Subtest-4    | Ant.0 | 22.50 | 22.50 | 22.50 | 22.50 | 19.50 | 19.50 | 19.50 | 19.50 | 19.50 | 19.50 | 19.50 | 19.50 |
| DC-HSDPA Subtest-1 | Ant.0 | 24.00 | 24.00 | 24.00 | 24.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 |
| DC-HSDPA Subtest-2 | Ant.0 | 23.00 | 23.00 | 23.00 | 23.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 |
| DC-HSDPA Subtest-3 | Ant.0 | 24.00 | 24.00 | 24.00 | 24.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 |
| DC-HSDPA Subtest-4 | Ant.0 | 22.50 | 22.50 | 22.50 | 22.50 | 19.50 | 19.50 | 19.50 | 19.50 | 19.50 | 19.50 | 19.50 | 19.50 |
| HSUPA Subtest-1    | Ant.0 | 23.00 | 23.00 | 23.00 | 23.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 |

|                    |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| HSUPA Subtest-2    | Ant.0 | 23.00 | 23.00 | 23.00 | 23.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 |
| HSUPA Subtest-3    | Ant.0 | 24.00 | 24.00 | 24.00 | 24.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 |
| HSUPA Subtest-4    | Ant.0 | 22.50 | 22.50 | 22.50 | 22.50 | 19.50 | 19.50 | 19.50 | 19.50 | 19.50 | 19.50 | 19.50 | 19.50 |
| HSUPA Subtest-5    | Ant.0 | 24.00 | 24.00 | 24.00 | 24.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 |
| HSPA+(16QAM)       | Ant.0 | 22.00 | 22.00 | 22.00 | 22.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 |
| WCDMA Band5 RMC    | Ant.1 | 24.40 | 24.40 | 24.40 | 24.40 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 |
| WCDMA Band5 AMR    | Ant.1 | 24.40 | 24.40 | 24.40 | 24.40 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 |
| HSDPA Subtest-1    | Ant.1 | 23.90 | 23.90 | 23.90 | 23.90 | 22.50 | 22.50 | 22.50 | 22.50 | 22.50 | 22.50 | 22.50 | 22.50 |
| HSDPA Subtest-2    | Ant.1 | 23.40 | 23.40 | 23.40 | 23.40 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 |
| HSDPA Subtest-3    | Ant.1 | 23.40 | 23.40 | 23.40 | 23.40 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 |
| HSDPA Subtest-4    | Ant.1 | 22.90 | 22.90 | 22.90 | 22.90 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 |
| DC-HSDPA Subtest-1 | Ant.1 | 23.90 | 23.90 | 23.90 | 23.90 | 22.50 | 22.50 | 22.50 | 22.50 | 22.50 | 22.50 | 22.50 | 22.50 |
| DC-HSDPA Subtest-2 | Ant.1 | 23.40 | 23.40 | 23.40 | 23.40 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 |
| DC-HSDPA Subtest-3 | Ant.1 | 23.40 | 23.40 | 23.40 | 23.40 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 |
| DC-HSDPA Subtest-4 | Ant.1 | 22.90 | 22.90 | 22.90 | 22.90 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 |
| HSUPA Subtest-1    | Ant.1 | 22.90 | 22.90 | 22.90 | 22.90 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 |
| HSUPA Subtest-2    | Ant.1 | 21.90 | 21.90 | 21.90 | 21.90 | 20.50 | 20.50 | 20.50 | 20.50 | 20.50 | 20.50 | 20.50 | 20.50 |
| HSUPA Subtest-3    | Ant.1 | 22.90 | 22.90 | 22.90 | 22.90 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 |
| HSUPA Subtest-4    | Ant.1 | 21.40 | 21.40 | 21.40 | 21.40 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 |
| HSUPA Subtest-5    | Ant.1 | 22.90 | 22.90 | 22.90 | 22.90 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 |
| HSPA+(16QAM)       | Ant.1 | 22.40 | 22.40 | 22.40 | 22.40 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 |
| WCDMA Band5 RMC    | Ant.0 | 24.50 | 24.50 | 24.50 | 24.50 | 24.30 | 24.30 | 24.30 | 24.30 | 24.30 | 24.30 | 24.30 | 24.30 |
| WCDMA Band5 AMR    | Ant.0 | 24.50 | 24.50 | 24.50 | 24.50 | 24.30 | 24.30 | 24.30 | 24.30 | 24.30 | 24.30 | 24.30 | 24.30 |
| HSDPA Subtest-1    | Ant.0 | 24.00 | 24.00 | 24.00 | 24.00 | 23.80 | 23.80 | 23.80 | 23.80 | 23.80 | 23.80 | 23.80 | 23.80 |
| HSDPA Subtest-2    | Ant.0 | 23.50 | 23.50 | 23.50 | 23.50 | 23.30 | 23.30 | 23.30 | 23.30 | 23.30 | 23.30 | 23.30 | 23.30 |
| HSDPA Subtest-3    | Ant.0 | 23.50 | 23.50 | 23.50 | 23.50 | 23.30 | 23.30 | 23.30 | 23.30 | 23.30 | 23.30 | 23.30 | 23.30 |
| HSDPA Subtest-4    | Ant.0 | 23.00 | 23.00 | 23.00 | 23.00 | 22.80 | 22.80 | 22.80 | 22.80 | 22.80 | 22.80 | 22.80 | 22.80 |
| DC-HSDPA Subtest-1 | Ant.0 | 24.00 | 24.00 | 24.00 | 24.00 | 23.80 | 23.80 | 23.80 | 23.80 | 23.80 | 23.80 | 23.80 | 23.80 |
| DC-HSDPA Subtest-2 | Ant.0 | 23.50 | 23.50 | 23.50 | 23.50 | 23.30 | 23.30 | 23.30 | 23.30 | 23.30 | 23.30 | 23.30 | 23.30 |
| DC-HSDPA Subtest-3 | Ant.0 | 23.50 | 23.50 | 23.50 | 23.50 | 23.30 | 23.30 | 23.30 | 23.30 | 23.30 | 23.30 | 23.30 | 23.30 |
| DC-HSDPA Subtest-4 | Ant.0 | 23.00 | 23.00 | 23.00 | 23.00 | 22.80 | 22.80 | 22.80 | 22.80 | 22.80 | 22.80 | 22.80 | 22.80 |
| HSUPA Subtest-1    | Ant.0 | 23.00 | 23.00 | 23.00 | 23.00 | 22.80 | 22.80 | 22.80 | 22.80 | 22.80 | 22.80 | 22.80 | 22.80 |
| HSUPA Subtest-2    | Ant.0 | 22.00 | 22.00 | 22.00 | 22.00 | 21.80 | 21.80 | 21.80 | 21.80 | 21.80 | 21.80 | 21.80 | 21.80 |
| HSUPA Subtest-3    | Ant.0 | 23.00 | 23.00 | 23.00 | 23.00 | 22.80 | 22.80 | 22.80 | 22.80 | 22.80 | 22.80 | 22.80 | 22.80 |
| HSUPA Subtest-4    | Ant.0 | 21.50 | 21.50 | 21.50 | 21.50 | 21.30 | 21.30 | 21.30 | 21.30 | 21.30 | 21.30 | 21.30 | 21.30 |
| HSUPA Subtest-5    | Ant.0 | 23.00 | 23.00 | 23.00 | 23.00 | 22.80 | 22.80 | 22.80 | 22.80 | 22.80 | 22.80 | 22.80 | 22.80 |
| HSPA+(16QAM)       | Ant.0 | 22.50 | 22.50 | 22.50 | 22.50 | 22.30 | 22.30 | 22.30 | 22.30 | 22.30 | 22.30 | 22.30 | 22.30 |
| LTE Band2          | Ant.1 | 23.50 | 20.50 | 20.50 | 20.50 | 22.20 | 22.20 | 22.20 | 22.20 | 22.20 | 22.20 | 22.20 | 22.20 |
| LTE Band2          | Ant.0 | 23.50 | 23.50 | 23.50 | 23.50 | 20.70 | 20.70 | 20.70 | 20.70 | 20.70 | 20.70 | 20.70 | 20.70 |
| LTE Band4          | Ant.1 | 23.50 | 22.80 | 22.80 | 22.80 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 |
| LTE Band4          | Ant.0 | 23.50 | 23.50 | 23.50 | 23.50 | 21.80 | 21.80 | 21.80 | 21.80 | 21.80 | 21.80 | 21.80 | 21.80 |
| LTE Band4          | Ant.4 | 22.00 | 21.00 | 21.00 | 21.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 |
| LTE Band5          | Ant.1 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 |

|                 |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| LTE Band5       | Ant.0 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 |
| LTE Band7       | Ant.1 | 23.50 | 19.50 | 19.50 | 19.50 | 17.30 | 17.30 | 17.30 | 17.30 | 17.30 | 17.30 | 17.30 | 17.30 |
| LTE Band7       | Ant.0 | 23.50 | 23.50 | 23.50 | 23.50 | 20.40 | 20.40 | 20.40 | 20.40 | 20.40 | 20.40 | 20.40 | 20.40 |
| LTE Band7       | Ant.4 | 21.50 | 19.80 | 19.80 | 19.80 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 |
| LTE Band12      | Ant.1 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 |
| LTE Band12      | Ant.0 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 |
| LTE Band13      | Ant.1 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 |
| LTE Band13      | Ant.0 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 |
| LTE Band17      | Ant.1 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 |
| LTE Band17      | Ant.0 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 |
| LTE Band26      | Ant.1 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 |
| LTE Band26      | Ant.0 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 |
| LTE Band66      | Ant.1 | 24.00 | 22.00 | 22.00 | 22.00 | 23.60 | 23.60 | 23.60 | 23.60 | 23.60 | 23.60 | 23.60 | 23.60 |
| LTE Band66      | Ant.0 | 24.00 | 24.00 | 24.00 | 24.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 |
| LTE Band66      | Ant.4 | 22.50 | 18.30 | 18.30 | 18.30 | 22.50 | 22.50 | 22.50 | 22.50 | 22.50 | 22.50 | 22.50 | 22.50 |
| LTE Band38      | Ant.1 | 24.00 | 23.50 | 23.50 | 23.50 | 21.20 | 21.20 | 21.20 | 21.20 | 21.20 | 21.20 | 21.20 | 21.20 |
| LTE Band38      | Ant.0 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 |
| LTE Band38      | Ant.4 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 |
| LTE Band41(PC3) | Ant.1 | 23.20 | 23.20 | 23.20 | 23.20 | 19.80 | 19.80 | 19.80 | 19.80 | 19.80 | 19.80 | 19.80 | 19.80 |
| LTE Band41(PC3) | Ant.0 | 23.20 | 23.20 | 23.20 | 23.20 | 23.20 | 23.20 | 23.20 | 23.20 | 23.20 | 23.20 | 23.20 | 23.20 |
| LTE Band41(PC3) | Ant.4 | 20.20 | 20.20 | 20.20 | 20.20 | 20.20 | 20.20 | 20.20 | 20.20 | 20.20 | 20.20 | 20.20 | 20.20 |
| LTE Band41(PC2) | Ant.1 | 25.20 | 25.20 | 25.20 | 25.20 | 21.80 | 21.80 | 21.80 | 21.80 | 21.80 | 21.80 | 21.80 | 21.80 |
| LTE Band41(PC2) | Ant.0 | 25.20 | 25.20 | 25.20 | 25.20 | 25.20 | 25.20 | 25.20 | 25.20 | 25.20 | 25.20 | 25.20 | 25.20 |
| LTE Band41(PC2) | Ant.4 | 22.20 | 22.20 | 22.20 | 22.20 | 22.20 | 22.20 | 22.20 | 22.20 | 22.20 | 22.20 | 22.20 | 22.20 |
| N5              | Ant.1 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 |
| N5              | Ant.0 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 |
| N7              | Ant.1 | 23.70 | 21.00 | 21.00 | 21.00 | 18.20 | 18.20 | 18.20 | 18.20 | 18.20 | 18.20 | 18.20 | 18.20 |
| N7              | Ant.0 | 23.70 | 23.70 | 23.70 | 23.70 | 23.70 | 23.70 | 23.70 | 23.70 | 23.70 | 23.70 | 23.70 | 23.70 |
| N7              | Ant.4 | 21.70 | 20.20 | 20.20 | 20.20 | 21.70 | 21.70 | 21.70 | 21.70 | 21.70 | 21.70 | 21.70 | 21.70 |
| N66             | Ant.1 | 24.20 | 22.20 | 22.20 | 22.20 | 23.70 | 23.70 | 23.70 | 23.70 | 23.70 | 23.70 | 23.70 | 23.70 |
| N66             | Ant.0 | 24.20 | 24.20 | 24.20 | 24.20 | 21.60 | 21.60 | 21.60 | 21.60 | 21.60 | 21.60 | 21.60 | 21.60 |
| N66             | Ant.4 | 22.70 | 20.20 | 20.20 | 20.20 | 22.70 | 22.70 | 22.70 | 22.70 | 22.70 | 22.70 | 22.70 | 22.70 |
| N38             | Ant.1 | 24.20 | 21.00 | 21.00 | 21.00 | 20.20 | 20.20 | 20.20 | 20.20 | 20.20 | 20.20 | 20.20 | 20.20 |
| N38             | Ant.0 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 |
| N38             | Ant.4 | 22.20 | 21.20 | 21.20 | 21.20 | 22.20 | 22.20 | 22.20 | 22.20 | 22.20 | 22.20 | 22.20 | 22.20 |
| N41             | Ant.1 | 25.70 | 19.10 | 19.10 | 19.10 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 |
| N41             | Ant.0 | 25.70 | 25.70 | 25.70 | 25.70 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 |
| N41             | Ant.4 | 23.70 | 19.20 | 19.20 | 19.20 | 22.70 | 22.70 | 22.70 | 22.70 | 22.70 | 22.70 | 22.70 | 22.70 |

| Mode        | Band       | Antenna | WWAN Antenna |             |                           |        |            |           |            |              |                           |       |            |          |                     |  |
|-------------|------------|---------|--------------|-------------|---------------------------|--------|------------|-----------|------------|--------------|---------------------------|-------|------------|----------|---------------------|--|
|             |            |         | Full Power   | Receiver on |                           |        |            |           |            | Receiver off |                           |       |            |          |                     |  |
|             |            |         |              | Standalone  | Head                      |        |            | Body-worn |            |              | Hotspot                   |       |            | Specific |                     |  |
|             |            |         |              |             | Simultaneous transmission |        |            |           |            |              | Simultaneous transmission |       |            |          |                     |  |
|             |            |         |              |             | +2.4GWIFI/5GWIFI/BT       |        | +5GWIFI+BT |           | Standalone |              | +2.4GWIFI/5GWIFI/BT       |       | +5GWIFI+BT |          | +2.4GWIFI/5GWIFI/BT |  |
| Off         | State2     | State4  | State6       | State1      | State3                    | State5 | State3     | State5    | State1     | State3       | State5                    |       |            |          |                     |  |
| DC_7A+n5A   | n5         | Ant.0   | 24.20        | 24.20       | 24.20                     | 24.20  | 24.20      | 24.20     | 24.20      | 24.20        | 24.20                     | 24.20 | 24.20      | 24.20    |                     |  |
|             | LTE Band7  | Ant.1   | 23.30        | 19.30       | 19.30                     | 19.30  | 17.10      | 17.10     | 17.10      | 17.10        | 17.10                     | 17.10 | 17.10      | 17.10    |                     |  |
|             | LTE Band7  | Ant.4   | 21.30        | 19.60       | 19.60                     | 19.60  | 21.30      | 21.30     | 21.30      | 21.30        | 21.30                     | 21.30 | 21.30      | 21.30    |                     |  |
| DC_66A+n5A  | n5         | Ant.0   | 24.20        | 24.20       | 24.20                     | 24.20  | 24.20      | 24.20     | 24.20      | 24.20        | 24.20                     | 24.20 | 24.20      | 24.20    |                     |  |
|             | LTE Band66 | Ant.1   | 22.80        | 20.80       | 20.80                     | 20.80  | 22.40      | 22.40     | 22.40      | 22.40        | 22.40                     | 22.40 | 22.40      | 22.40    |                     |  |
|             | LTE Band66 | Ant.4   | 22.80        | 18.60       | 18.60                     | 18.60  | 22.80      | 22.80     | 22.80      | 22.80        | 22.80                     | 22.80 | 22.80      | 22.80    |                     |  |
| DC_5A+n7A   | n7         | Ant.1   | 23.70        | 21.00       | 21.00                     | 21.00  | 18.20      | 18.20     | 18.20      | 18.20        | 18.20                     | 18.20 | 18.20      | 18.20    |                     |  |
|             | n7         | Ant.4   | 21.70        | 20.20       | 20.20                     | 20.20  | 21.70      | 21.70     | 21.70      | 21.70        | 21.70                     | 21.70 | 21.70      | 21.70    |                     |  |
|             | LTE Band5  | Ant.0   | 24.30        | 24.30       | 24.30                     | 24.30  | 24.30      | 24.30     | 24.30      | 24.30        | 24.30                     | 24.30 | 24.30      | 24.30    |                     |  |
| DC_66A+n7A  | n7         | Ant.1   | 23.70        | 21.00       | 21.00                     | 21.00  | 18.20      | 18.20     | 18.20      | 18.20        | 18.20                     | 18.20 | 18.20      | 18.20    |                     |  |
|             | n7         | Ant.4   | 21.70        | 20.20       | 20.20                     | 20.20  | 21.70      | 21.70     | 21.70      | 21.70        | 21.70                     | 21.70 | 21.70      | 21.70    |                     |  |
|             | LTE Band66 | Ant.0   | 23.80        | 23.80       | 23.80                     | 23.80  | 21.80      | 21.80     | 21.80      | 21.80        | 21.80                     | 21.80 | 21.80      | 21.80    |                     |  |
| DC_2A+n66A  | n66        | Ant.1   | 24.20        | 22.20       | 22.20                     | 22.20  | 23.70      | 23.70     | 23.70      | 23.70        | 23.70                     | 23.70 | 23.70      | 23.70    |                     |  |
|             | n66        | Ant.4   | 22.70        | 20.20       | 20.20                     | 20.20  | 22.70      | 22.70     | 22.70      | 22.70        | 22.70                     | 22.70 | 22.70      | 22.70    |                     |  |
|             | LTE Band2  | Ant.0   | 23.30        | 23.30       | 23.30                     | 23.30  | 20.50      | 20.50     | 20.50      | 20.50        | 20.50                     | 20.50 | 20.50      | 20.50    |                     |  |
| DC_5A+n66A  | n66        | Ant.1   | 24.20        | 22.20       | 22.20                     | 22.20  | 23.70      | 23.70     | 23.70      | 23.70        | 23.70                     | 23.70 | 23.70      | 23.70    |                     |  |
|             | n66        | Ant.4   | 22.70        | 20.20       | 20.20                     | 20.20  | 22.70      | 22.70     | 22.70      | 22.70        | 22.70                     | 22.70 | 22.70      | 22.70    |                     |  |
|             | LTE Band5  | Ant.0   | 24.30        | 24.30       | 24.30                     | 24.30  | 24.30      | 24.30     | 24.30      | 24.30        | 24.30                     | 24.30 | 24.30      | 24.30    |                     |  |
| DC_7A+n66A  | n66        | Ant.1   | 24.20        | 22.20       | 22.20                     | 22.20  | 23.70      | 23.70     | 23.70      | 23.70        | 23.70                     | 23.70 | 23.70      | 23.70    |                     |  |
|             | n66        | Ant.4   | 22.70        | 20.20       | 20.20                     | 20.20  | 22.70      | 22.70     | 22.70      | 22.70        | 22.70                     | 22.70 | 22.70      | 22.70    |                     |  |
|             | LTE Band7  | Ant.0   | 23.30        | 23.30       | 23.30                     | 23.30  | 20.20      | 20.20     | 20.20      | 20.20        | 20.20                     | 20.20 | 20.20      | 20.20    |                     |  |
| DC_26A+n41A | n41        | Ant.1   | 25.70        | 19.10       | 19.10                     | 19.10  | 17.50      | 17.50     | 17.50      | 17.50        | 17.50                     | 17.50 | 17.50      | 17.50    |                     |  |
|             | n41        | Ant.4   | 23.70        | 19.20       | 19.20                     | 19.20  | 22.70      | 22.70     | 22.70      | 22.70        | 22.70                     | 22.70 | 22.70      | 22.70    |                     |  |
|             | LTE Band26 | Ant.0   | 24.30        | 24.30       | 24.30                     | 24.30  | 24.30      | 24.30     | 24.30      | 24.30        | 24.30                     | 24.30 | 24.30      | 24.30    |                     |  |

## Note:

1. \*Pmax is used for RF tune up procedure. The maximum allowed output power is equal to Pmax - 2.0 dB uncertainty.
2. \*\*AI Pmit power levels entered in the Table correspond to average power levels after accounting for duty cycle in the case TDD modulation schemes (for e.g., GSM & LTE TDD).
3. The max allowed outout power is the Pimt - 2dB device uncertainty, and if Pimt is higher than Pmax, the device outputpower will be Pmax instead.
4. The following table is duty cycle and factor used for calculating time average power.

| GSM/FDD/TT | Duty Cycle(%) | Time average calculation factor(dB) |
|------------|---------------|-------------------------------------|
| GSM 1TX    | 12.5          | -9                                  |
| GSM 2TX    | 25            | -6                                  |
| GSM 3TX    | 37.5          | -4.3                                |
| GSM 4TX    | 50            | -3                                  |
| LTE FDD    | 100           | 0                                   |
| LTE TDD    | 63.3          | -2                                  |
| NR FDD/TDD | 100           | 0                                   |

--END OF REPORT--