# TEST REPORT

| | |
|---|---|
| **Applicant:** | Realme Chongqing Mobile Telecommunications Corp., Ltd. |
| **Address:** | No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China |
| **Equipment Type:** | Mobile Phone |
| **Model Name:** | RMX3771 |
| **Brand Name:** | realme |
| **FCC ID:** | 2AUYFRMX3771 |
| **Test Standard:** | FCC 47 CFR Part 2.1093<br>(refer section 3.1) |
| **Maximum SAR:** | Head (1 g@0mm): 1.08 W/kg<br>Body-worn (1 g@15mm): 0.33 W/kg<br>Hotspot (1 g@10mm): 0.96 W/kg<br>Specific (10 g@0mm): 2.37 W/kg |
| **Sample Arrival Date:** | Apr. 04, 2023 |
| **Test Date:** | May 09, 2023 |
| **Date of Issue:** | May 17, 2023 |

**ISSUED BY:**

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Ruan Zhaoyi **Checked by:** Xu Rui **Approved by:** Tolan Tu

(Testing Director)

**Revision History**

| Version | Issue Date | Revisions Content |
|---|---|---|
| Rev. 01 | May 15, 2023 | Initial Issue |
| Rev. 02 | May 17, 2023 | Updated power reduction list in section 9.9. |

# TABLE OF CONTENTS


1 GENERAL INFORMATION ..... 6

1.1 Test Laboratory ..... 6

1.2 Test Location ..... 6

1.3 Test Environment Condition ..... 6

2 PRODUCT INFORMATION ..... 7

2.1 Applicant Information ..... 7

2.2 Manufacturer Information ..... 7

2.3 Factory Information ..... 7

2.4 General Description for Equipment under Test (EUT) ..... 7

2.5 Ancillary Equipment ..... 8

2.6 Technical Information ..... 9

3 SUMMARY OF TEST RESULT ..... 11

3.1 Test Standards ..... 11

3.2 Device Category and SAR Limit ..... 12

3.3 Test Result Summary ..... 13

3.4 Test Uncertainty ..... 15

4 MEASUREMENT SYSTEM ..... 16

4.1 Specific Absorption Rate (SAR) Definition ..... 16

4.2 DASY SAR System ..... 17

5 SYSTEM VERIFICATION ..... 24

5.1 Purpose of System Check ..... 24

5.2 System Check Setup ..... 24

6 TEST POSITION CONFIGURATIONS ..... 25

6.1 Head Exposure Conditions ..... 25

6.2 Body-worn Position Conditions ..... 27
6.3 Hotspot Mode Exposure Position Conditions ..... 28
6.4 Product Specific 10g Exposure Consideration ..... 29
7 MEASUREMENT PROCEDURE ..... 30
7.1 Measurement Process Diagram ..... 30
7.2 SAR Scan General Requirement ..... 31
7.3 Measurement Procedure ..... 32
7.4 Area & Zoom Scan Procedure ..... 32
8 UL duty cycle detection mechanism specification ..... 33
8.1 General description of UL duty cycle detection mechanism. ..... 33
8.2 UL duty cycle detection mechanism clarifications ..... 33
8.3 SAR test Plan ..... 36
9 CONDUCTED RF OUPUT POWER ..... 37
9.1 GSM ..... 37
9.2 WCDMA ..... 37
9.3 LTE ..... 37
9.4 NR-SA Power ..... 37
9.5 LTE-ENDC Power ..... 37
9.6 NR-NSA Power ..... 37
9.7 WIFI ..... 38
9.8 Bluetooth ..... 146
9.9 Power Reduction List ..... 148
10 TEST EXCLUSION CONSIDERATION ..... 163
10.1 SAR Test Exclusion Consideration Table ..... 164
11 TEST RESULT ..... 172
11.1 GSM 850 ..... 172
11.2 GSM 1900 ..... 173
11.3 WCDMA Band 2 ..... 175
11.4 WCDMA Band 4 ..... 177
11.5 WCDMA Band 5 ..... 179
11.6 LTE Band 2 (20MHz Bandwidth) ..... 180

11.7 LTE Band 4 (20MHz Bandwidth) ..... 182
11.8 LTE Band 5 (10MHz Bandwidth) ..... 185
11.9 LTE Band 7 (20MHz Bandwidth) ..... 187
11.10 LTE Band 12 (10MHz Bandwidth) ..... 191
11.11 LTE Band 13 (10MHz Bandwidth) ..... 193
11.12 LTE Band 17 (10MHz Bandwidth) ..... 195
11.13 LTE Band 26 (15MHz Bandwidth) ..... 197
11.14 LTE Band 66 (20MHz Bandwidth) ..... 199
11.15 LTE Band 38 (20MHz Bandwidth) ..... 204
11.16 LTE Band 41 (20MHz Bandwidth) ..... 206
11.17 5G n5 (20MHz Bandwidth) ..... 209
11.18 5G n7 (20MHz Bandwidth) ..... 211
11.19 5G n38 (20MHz Bandwidth) ..... 216
11.20 5G n41 (100MHz Bandwidth) ..... 219
11.21 5G n66 (20MHz Bandwidth) ..... 223
11.22 WIFI 2.4GHz ..... 228
11.23 WIFI 5GHz ..... 231
11.24 Bluetooth ..... 239
11.25 LTE Band 7 Worse case for CA Test ..... 240
11.26 LTE Band 38 Worse case for CA Test ..... 241
11.27 LTE Band 41 Worse case for CA Test ..... 242
11.28 Worse case for WCMDA Band 2 ..... 243
11.29 Worse case for WCMDA Band 2 ..... 244
11.30 Worse case for WIFI 2.4GHz ..... 245
12 SAR Measurement Variability ..... 246
13 SIMULTANEOUS TRANSMISSION ..... 247
13.1 Simultaneous Transmission Mode Considerations ..... 247
13.2 Sum SAR of Simultaneous Transmission ..... 248
14 TEST EQUIPMENTS LIST ..... 297
ANNEX A SIMULATING LIQUID VERIFICATION RESULT ..... 298
ANNEX B SYSTEM CHECK RESULT ..... 300

ANNEX C TEST DATA..... 382
ANNEX D EUT EXTERNAL PHOTOS..... 568
ANNEX E SAR TEST SETUP PHOTOS ..... 568
ANNEX F CALIBRATION REPORT ..... 568

# 1 GENERAL INFORMATION

## 1.1 Test Laboratory

| | |
|---|---|
| Name | Shenzhen BALUN Technology Co., Ltd. |
| Address | Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China |
| Phone Number | +86 755 6685 0100 |

## 1.2 Test Location

| | |
|---|---|
| Name | Shenzhen BALUN Technology Co., Ltd. |
| Location | ☑ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China |
| | ☐ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China |
| Accreditation Certificate | The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196. |

## 1.3 Test Environment Condition

| | |
|---|---|
| Ambient Temperature | 18℃ to 25℃ |
| Ambient Relative Humidity | 30% to 70% |

# 2 PRODUCT INFORMATION

## 2.1 Applicant Information

| | |
|---|---|
| Applicant | Realme Chongqing Mobile Telecommunications Corp., Ltd. |
| Address | No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China |

## 2.2 Manufacturer Information

| | |
|---|---|
| Manufacturer | Realme Chongqing Mobile Telecommunications Corp., Ltd. |
| Address | No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China |

## 2.3 Factory Information

| | |
|---|---|
| Factory | Realme Chongqing Mobile Telecommunications Corp., Ltd. |
| Address | No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China |

## 2.4 General Description for Equipment under Test (EUT)

| | |
|---|---|
| EUT Name | Mobile Phone |
| Model Name Under Test | RMX3771 |
| Series Model Name | N/A |
| Description of Model name differentiation | N/A |
| Hardware Version | 11 |
| Software Version | realme UI 4.0 |
| Dimensions (Approx.) | Plate Material: 161.6mm×73.9mm×8.2mm<br>Leather: 161.6mm×73.9mm×8.7mm |
| Weight (Approx.) | Plate Material: 185g<br>Leather: 191g |
| EUT ID | S20, S21 |
| IMEI Number | S20: IMEI1: 861250060021275, IMEI2: 861250060021267 |
| | S21: IMEI1: 861250060021390, IMEI2: 861250060021382 |
| Note1: EUT ID is used to identify the test sample in the lab internally.<br>Note2: It is performed to test SAR with the EUT S20 and conducted power with the EUT S21. | |

## 2.5 Ancillary Equipment

| | | |
|---|---|---|
| Ancillary Equipment 1 | Li-Polymer Battery 1 | |
| | Brand Name | SUPERVOOC |
| | Model No. | BLPA15 |
| | Serial No. | N/A |
| | Capacitance | Rated: 4870mAh/18.94Wh<br>Typical: 5000mAh/19.45Wh |
| | Rated Voltage | 3.89Vdc |
| | Limited Voltage | 4.45Vdc |
| | Manufacturer | Dongguan NVT Technology Co., Ltd. |
| Ancillary Equipment 2 | Headset | |
| | Model No. | MH147 |
| | Length (Approx.) | 1.18 m |

## 2.6 Technical Information

| | |
|---|---|
| Network and Wireless connectivity | 2G Network GSM/GPRS/EDGE 850/1900 MHz<br>3G Network WCDMA/HSDPA/HSUPA Band 2/4/5<br>4G Network LTE FDD Band 2/4/5/7/12/13/17/26/66<br>LTE TDD Band 38/41<br>LTE CA Uplink (UL): CA_7C, CA_38C, CA_41C<br>5G Network<br>SA: NR n5/n7/n38/n41/n66<br>NSA: DC_2A_n66A, DC_5A_n7A, DC_5A_n66A, DC_7A_n5A, DC_7_n66A, DC_26A_n41A, DC_66A_n5A, DC_66A_n7A<br>Bluetooth 5.2 (BR+EDR+BLE)<br>2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40), VHT20/40 and 802.11ax(HE20/40)<br>5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80) and 802.11ax(HE20/40/80)<br>U-NII-1/2A/2C/3, GPS, NFC, BeiDou, Galileo, GLONASS, SBAS |
| Note: The EUT is a mobile phone, supporting dual SIM card slots under the same transceiver. Both SIM card slots support GSM, WCDMA, LTE and NR. And both SIM card slots share the same transceiver, so only SIM1 is tested in this report. | |

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 & 824 ~ 849 MHz | RX: 859 ~ 894 MHz & 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 /n(HT20/HT40) | 2412 ~ 2462 MHz |
| | 802.11VHT20/40 | 2412 ~ 2462 MHz |
| | 802.11ax(HE20/HE40) | 2412 ~ 2462 MHz |
| | 802.11a/n(HT20/HT40) /ac(VHT20/VHT40/ VHT80) /ax(HE20/HE40/HE80) | 5150 ~ 5250 MHz |
| | | 5250 ~ 5350 MHz |
| | | 5470 ~ 5725 MHz |
| | | 5725 ~ 5850 MHz |
| | Bluetooth | 2402 ~ 2480 MHz |
| Antenna Type | WWAN: PIFA Antenna<br>WLAN: PIFA Antenna<br>Bluetooth: PIFA Antenna | |
| DTM | N/A | |
| Hotspot Function | Support | |
| Power Reduction | Support | |
| Exposure Category | General Population/Uncontrolled exposure | |
| EUT Stage | Portable Device | |
| Product | Type | |
| | ☒ Production unit | ☐ Identical prototype |
| Note:<br>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 8.9. | | |

# 3 SUMMARY OF TEST RESULT

## 3.1 Test Standards

| No. | Identity | Document Title |
|---|---|---|
| 1 | 47 CFR Part 2.1093 | Radiofrequency radiation exposure evaluation: portable devices |
| 2 | ANSI C95.1-1992 | IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz |
| 3 | IEEE Std. 1528-2013 | Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques |
| 4 | FCC KDB 447498 D04 v01 | 447498 D04 Interim General RF Exposure Guidance v01 |
| 5 | FCC KDB 941225 D01 v03r01 | 3G SAR MEAUREMENT PROCEDURES |
| 6 | FCC KDB 941225 D05 v02r05 | SAR Evaluation Considerations for LTE Devices |
| 7 | FCC KDB 941225 D06 v02r01 | SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities |
| 8 | FCC KDB 865664 D01 v01r04 | SAR Measurement 100 MHz to 6 GHz |
| 9 | FCC KDB 865664 D02 v01r02 | RF Exposure Reporting |
| 10 | FCC KDB 648474 D04 v01r03 | SAR Evaluation Considerations for Wireless Handsets |
| 11 | KDB 248227 D01 v02r02 | SAR Guidance for IEEE 802.11 (Wi-Fi) Transmitters |
| Compared with the EUT of test report BL-SZ2320162-701, the EUT of this report update Model Name, front camera, rear camera, battery, adapter, motor, charge management system, circuit and FCC ID. Other hardware circuits and software are the same as EUT referred in test report BL-SZ2320162-701<br>Therefore, only added worst case sport check test data in section 11.28 - 11.30 and ANNEX A/B/C., others test data please refer to report BL-SZ2320162-701, which was issued by Shenzhen BALUN Technology Co., Ltd. on May 11, 2023. | | |

## 3.2 Device Category and SAR Limit

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user.

Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

Table of Exposure Limits:

| Body Position | SAR Value (W/Kg) | |
|---|---|---|
| | General Population/ Uncontrolled Exposure | Occupational/ Controlled Exposure |
| Whole-Body SAR (averaged over the entire body) | 0.08 | 0.4 |
| Partial-Body SAR (averaged over any 1 gram of tissue) | 1.60 | 8.0 |
| SAR for hands, wrists, feet and ankles (averaged over any 10 grams of tissue) | 4.0 | 20.0 |

NOTE:

**General Population/Uncontrolled Exposure:** Locations where there is the exposure of individuals who have no knowledge or control of their exposure. General population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

**Occupational/Controlled Exposure:** Locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

## 3.3 Test Result Summary

### 3.3.1 Highest SAR (1 g Value)

| Equipment Class | Band | Maximum Scaled SAR (W/kg) | | | | Maximum Report SAR (W/kg) | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Head (0mm) | Body-worn (15mm) | Hotspot (10mm) | Specific (0mm) | Head (0mm) | Body-worn (15mm) | Hotspot (10mm) | Specific (0mm) |
| | | 1g SAR | | | 10g SAR | 1g SAR | | | 10g SAR |
| PCE | GSM 850 | 0.42 | 0.16 | 0.33 | / | 1.08 | 0.33 | 0.96 | 2.37 |
| | GSM 1900 | 0.91 | 0.23 | 0.84 | / | | | | |
| | WCDMA Band 2 | 1.03 | **0.33** | 0.94 | **2.37** | | | | |
| | WCDMA Band 4 | 0.50 | 0.20 | **0.96** | 1.95 | | | | |
| | WCDMA Band 5 | 0.30 | 0.14 | 0.24 | / | | | | |
| | LTE Band 2 | 0.75 | 0.32 | 0.75 | / | | | | |
| | LTE Band 4 | 0.23 | 0.22 | 0.87 | 1.76 | | | | |
| | LTE Band 5 | 0.34 | 0.13 | 0.23 | / | | | | |
| | LTE Band 7 | 1.01 | 0.20 | 0.59 | 1.65 | | | | |
| | LTE Band 12 | 0.19 | 0.16 | 0.20 | / | | | | |
| | LTE Band 13 | 0.14 | 0.07 | 0.10 | / | | | | |
| | LTE Band 17 | 0.15 | 0.16 | 0.12 | / | | | | |
| | LTE Band 26 | 0.30 | 0.15 | 0.22 | / | | | | |
| | LTE Band 66 | 0.73 | 0.32 | 0.88 | 1.20 | | | | |
| | LTE Band 38 | 0.57 | 0.25 | 0.69 | / | | | | |
| | LTE Band 41 | 0.68 | 0.17 | 0.61 | 1.51 | | | | |
| | NR n5 | 0.33 | 0.10 | 0.20 | / | | | | |
| | NR n7 | 0.78 | 0.26 | 0.67 | 1.91 | | | | |
| | NR n38 | 0.82 | 0.21 | 0.51 | 1.57 | | | | |
| | NR n41 | 0.50 | 0.20 | 0.90 | 1.25 | | | | |
| | NR n66 | 0.77 | 0.20 | 0.73 | 1.75 | | | | |
| DTS | 2.4G WLAN | **1.08** | 0.15 | 0.58 | / | | | | |
| NII | 5.3G WLAN | 0.59 | 0.22 | 0.57 | / | | | | |
| | 5.6G WLAN | 0.71 | 0.24 | / | / | | | | |
| | 5.8G WLAN | 0.96 | 0.19 | 0.85 | / | | | | |
| DSS | Bluetooth | 0.38 | 0.04 | 0.10 | / | | | | |
| Limit (W/kg) | | 1.6 | | | 4.0 | 1.6 | | | 4.0 |
| Verdict | | Pass | | | | | | | |

### 3.3.2 Highest Specific SAR (10 g Value)

| Equipment Class | Maximum Scaled SAR (W/kg) | | | |
|---|---|---|---|---|
| | Head (0mm) | Body-worn (15mm) | Hotspot (10mm) | Specific (0mm) |
| | 1g SAR | | | 10g SAR |
| PCE | 1.590 | 0.479 | 1.261 | 2.943 |
| DTS | 1.576 | 0.418 | 1.132 | / |
| NII | 1.590 | 0.479 | 1.261 | 2.943 |
| DSS | 1.590 | 0.479 | 1.261 | / |
| Limit (W/Kg) | 1.60 | 1.60 | 1.60 | 4.00 |
| Verdict | Pass | | | |
| Note: The highest simultaneous SAR please refer section 12.2 | | | | |

## 3.4 Test Uncertainty

According to KDB 865664 D01, when the highest measured 1 g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis is not required in SAR reports submitted for equipment approval.

The maximum 1 g SAR for the EUT in this report is 1.08 W/kg, which is lower than 1.5 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.
The maximum 10 g SAR for the EUT in this report is 2.37 W/kg, which is lower than 3.75 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.

# 4 MEASUREMENT SYSTEM

## 4.1 Specific Absorption Rate (SAR) Definition

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$\mathbf{SAR} = \frac{\boldsymbol{d}}{\mathbf{dt}}\left(\frac{\boldsymbol{dW}}{\mathbf{dm}}\right) = \frac{\boldsymbol{d}}{\mathbf{dt}}\left(\frac{\boldsymbol{dW}}{\boldsymbol{\rho}\mathbf{dv}}\right)$$

SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

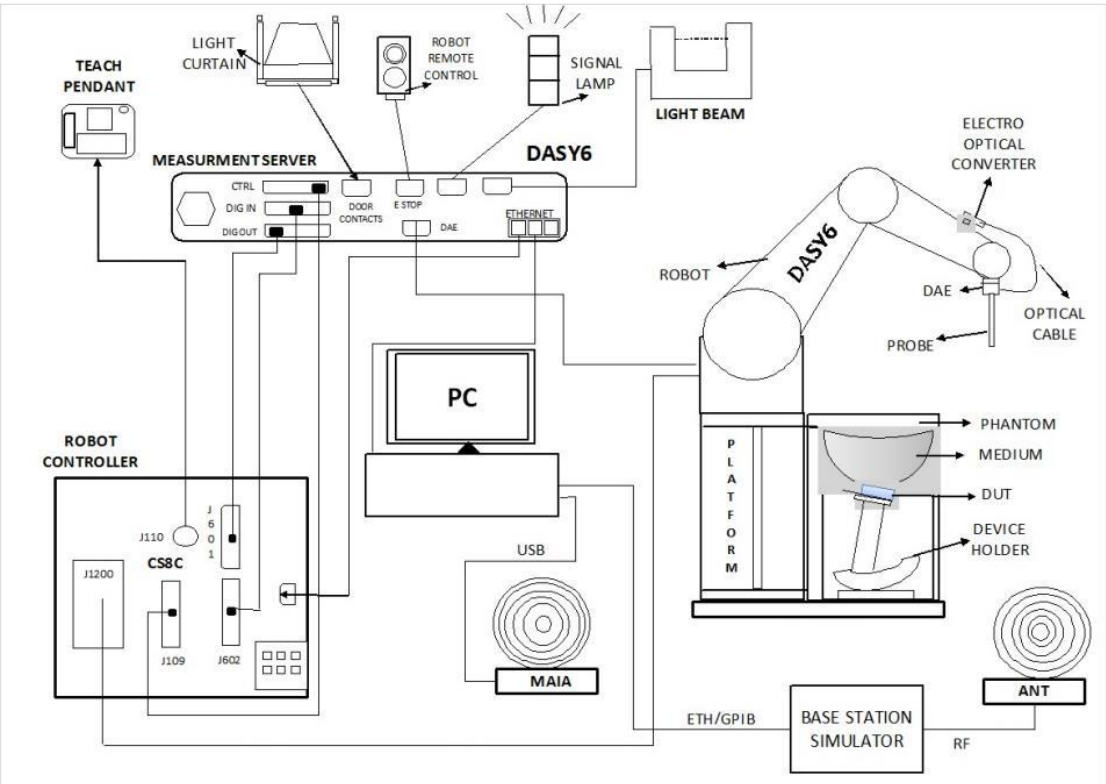
$$\mathbf{SAR} = \frac{\boldsymbol{\sigma}\mathbf{E}^{\mathbf{2}}}{\boldsymbol{\rho}}$$

Where: σ is the conductivity of the tissue,

ρis the mass density of the tissue and E is the RMS electrical field strength.

## 4.2 DASY SAR System

### 4.2.1 DASY SAR System Diagram

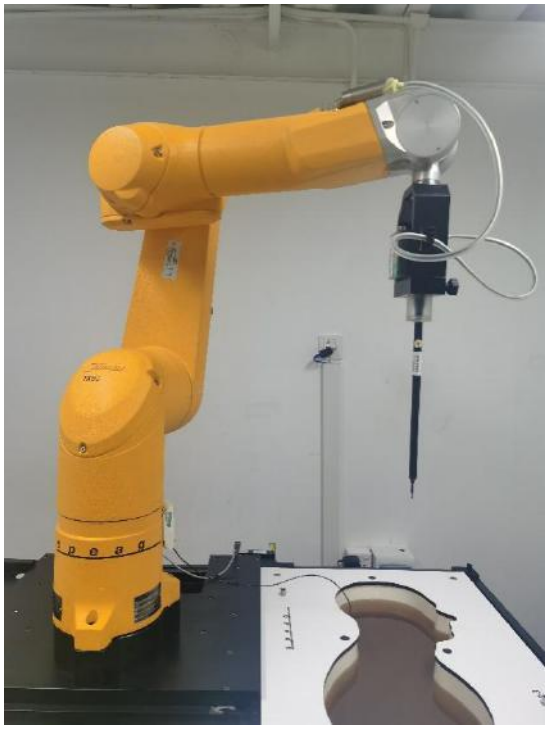



The DASY system for performing compliance tests consists of the following items:

1. A standard high precision 6-axis robot (Stäubli RX family) with controller and software. An arm extension for accommodating the data acquisition electronics (DAE).
2. A dosimetric probe, i.e. an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
3. A data acquisition electronic (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
4. A unit to operate the optical surface detector which is connected to the EOC.
5. The Electro-Optical Coupler (EOC) performs the conversion from the optical into a digital electric signal of the DAE. The EOC is connected to the DASY measurement server.
6. The DASY measurement server, which performs all real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operation.
7. DASY software and SEMCAD data evaluation software.
8. Remote control with teach panel and additional circuitry for robot safety such as warning lamps, etc.
9. The generic twin phantom enabling the testing of left-hand and right-hand usage.
10. The device holder for handheld mobile phones.
11. Tissue simulating liquid mixed according to the given recipes.
12. System validation dipoles allowing to validate the proper functioning of the system.

### 4.2.2 Robot

The Dasy SAR system uses the high precision robots. Symmetrical design with triangular core Built-in optical fiber for surface detection system For the 6-axis controller system, Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents). The robot series have many features that are important for our application:



- High precision
  (repeatability ±0.02 mm)
- High reliability
  (industrial design)
- Low maintenance costs
  (virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements
  (brush less synchron motors; no stepper motors)
- Low ELF interference
  (motor control _elds shielded via the closed metallic construction shields)

### 4.2.3 E-Field Probe

The probe is specially designed and calibrated for use in liquids with high permittivities for the measurements the Specific Dosimetric E-Field Probe EX3DV4-SN: 7607 with following specifications is used.

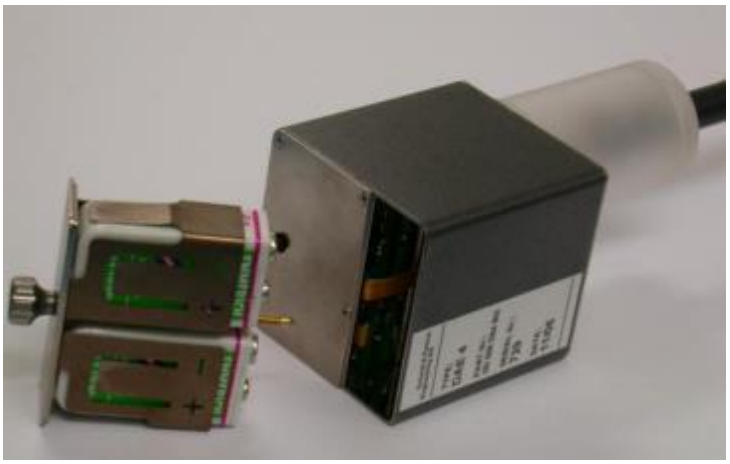
| | |
|---|---|
| Construction | Symmetrical design with triangular core Built-in optical fiber for surface detection system Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., glycolether) |
| Calibration | ISO/IEC 17025 calibration service available |
| Frequency | 4 MHz to 10 GHz; Linearity: ± 0.2 dB |
| Directivity | ± 0.2 dB in HSL (rotation around probe axis) ; ± 0.4 dB in HSL (rotation normal to probe axis) |
| Dynamic range | 5 µW/g to > 100 mW/g; Linearity: ± 0.2 dB |
| Dimensions | Overall length: 337 mm (Tip: 9 mm) Tip diameter: 2.5 mm (Body: 10 mm) Distance from probe tip to dipole centers: 1.0 mm |
| Application | General dosimetry up to 3 GHz Compliance tests of mobile phones Fast automatic scanning in arbitrary phantoms (EX3DV4) |

**E-Field Probe Calibration Process**

Probe calibration is realized, in compliance with IEC/IEEE 62209-1528 and IEEE 1528 std, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the IEC/IEEE 62209-1528 annexe technique using reference guide at the five frequencies.

### 4.2.4 Data Acquisition Electronics

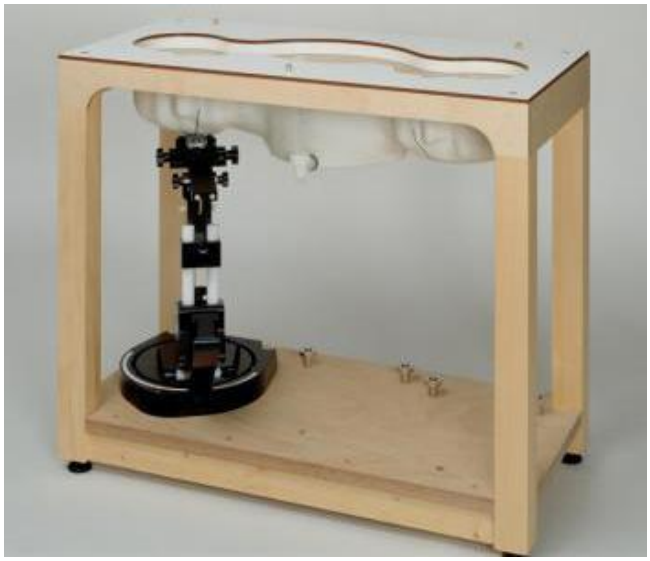
The data acquisition electronics (DAE) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.



- Input Impedance: 200MOhm
- The Inputs: Symmetrical and Floating
- Commom Mode Rejection: Above 80dB

### 4.2.5 Phantoms

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.



- Left head
- Right head
- Flat phantom

**Photo of Phantom SN1859**

| Serial Number | Material | Length | Height |
|---|---|---|---|
| **SN 1859 SAM** | Vinylester, glass fiber reinforced | 1000 | 500 |

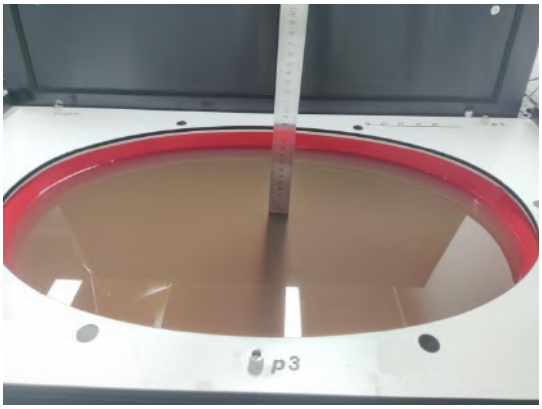
### 4.2.6 Device Holder

The DASY device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65°. The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. This device holder is used for standard mobile phones or PDA"s only. If necessary an additional support of polystyrene material is used. Larger DUT"s (e.g. notebooks) cannot be tested using this device holder. Instead a support of bigger polystyrene cubes and thin polystyrene plates is used to position the DUT in all relevant positions to find and measure spots with maximum SAR values. Therefore those devices are normally only tested at the flat part of the SAM.

The positioning system allows obtaining cheek and tilting position with a very good accuracy. Incompliance with CENELEC, the tilt angle uncertainty is lower than 1°.

### 4.2.7 Simulating Liquid

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5%.

| Head Liquid Depth | Body Liquid Depth |
|---|---|
| |  |

The following table gives the recipes for tissue simulating liquid and the theoretical Conductivity/Permittivity.

The following table gives the recipes for tissue simulating liquid.

| TSL | Manufacturer / Model | Freq Range (MHz) | Main Ingredients |
|---|---|---|---|
| Head WideBand | SPEAG HBBL600-10000V6 | 600-10000 | Ethanediol, Sodium petroleum sulfonate, Hexylene Glycol / 2-Methyl-pentane-2.4-diol, Alkoxylated alcohol |

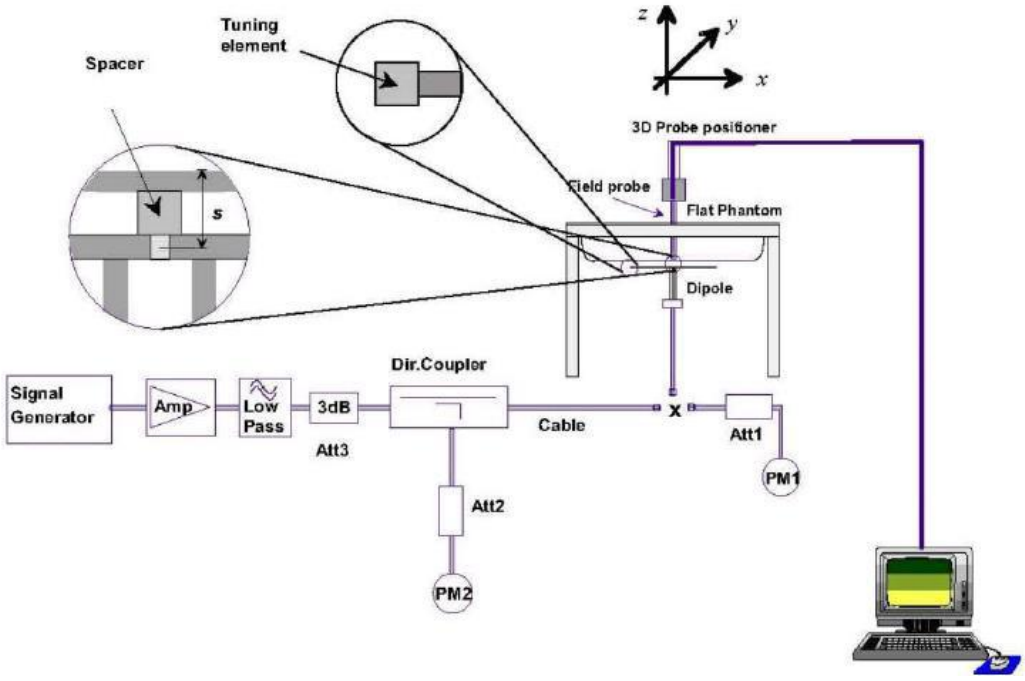
# 5 SYSTEM VERIFICATION

## 5.1 Purpose of System Check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

## 5.2 System Check Setup

In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:



# 6 TEST POSITION CONFIGURATIONS

According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

## 6.1 Head Exposure Conditions

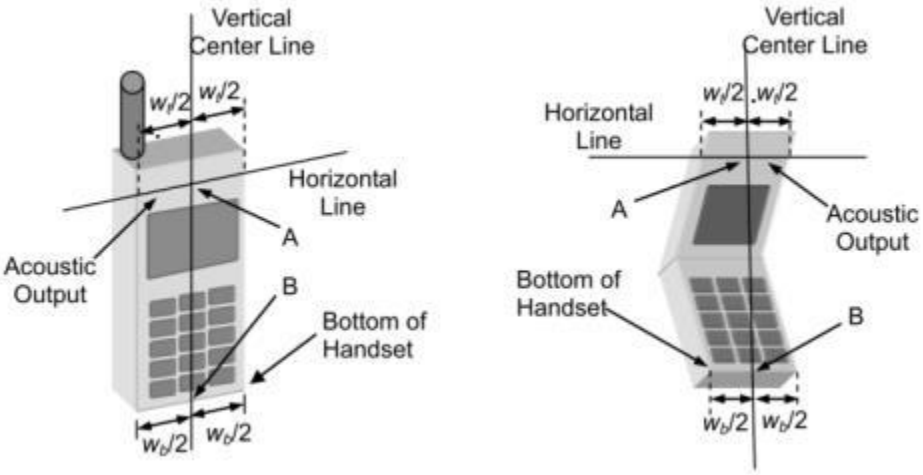
Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2013 using the SAM phantom illustrated as below.

### 6.1.1 Two Imaginary Lines on the Handset

(a) The vertical center line passes through two points on the front side of the handset - the midpoint of the width w t of the handset at the level of the acoustic output, and the midpoint of the width w b of the bottom of the handset.

(b) The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.

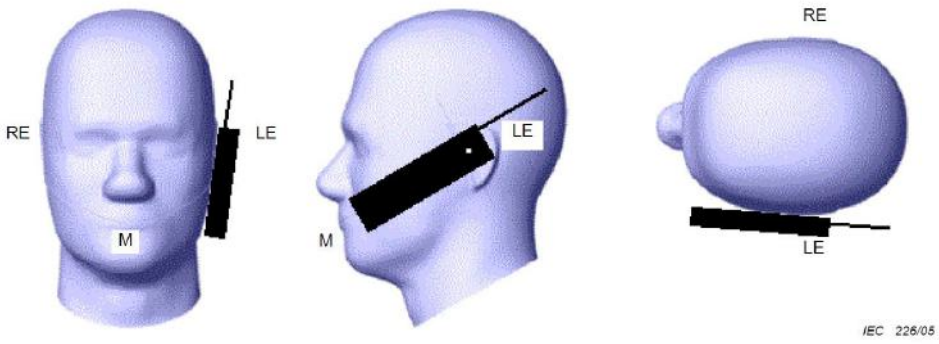
(c) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical center line is not necessarily parallel to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



### 6.1.2 Cheek Position

(a) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.

(b) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost.




### 6.1.3 Tilted Position

(a) To position the device in the “cheek” position described above.

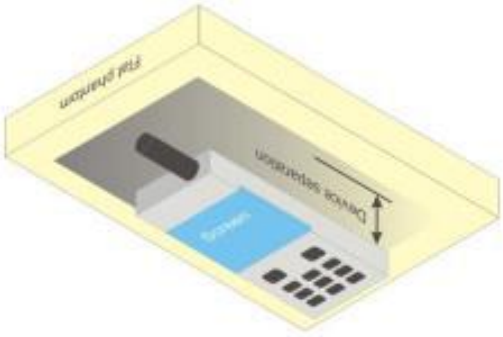
(b) While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost.

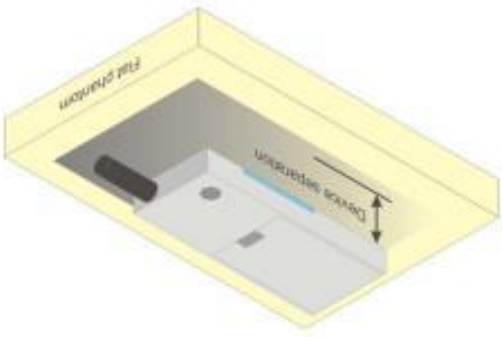
## 6.2 Body-worn Position Conditions

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB 447498 are used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode. When the reported SAR for a body-worn accessory.

Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics. All body-worn accessories containing metallic components are tested in conjunction with the host device.

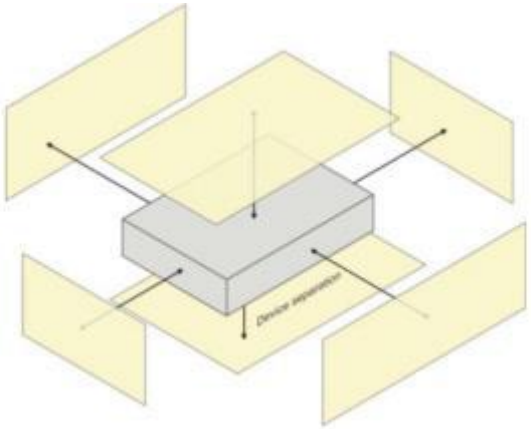
Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice only operations in its normal and expected use conditions, testing of data mode for body-worn compliance is not required. A conservative minimum test separation distance for supporting off-the-shelf body-worn accessories that may be acquired by users of consumer handsets is used to test for body-worn accessory SAR compliance. This distance is determined by the handset manufacturer, according to the requirements of Supplement C 01-01. Devices that are designed to operate on the body of users using lanyards and straps, or without requiring additional body-worn accessories, will be tested using a conservative minimum test separation distance <= 5 mm to support compliance.



## 6.3 Hotspot Mode Exposure Position Conditions

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing functions, the relevant hand and body exposure conditions are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surfaces and edges with a transmitting antenna located within 25 mm from that surface or edge. When the form factor of a handset is smaller than 9 cm x 5 cm, a test separation distance of 5 mm (instead of 10 mm) is required for testing hotspot mode. When the separation distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).



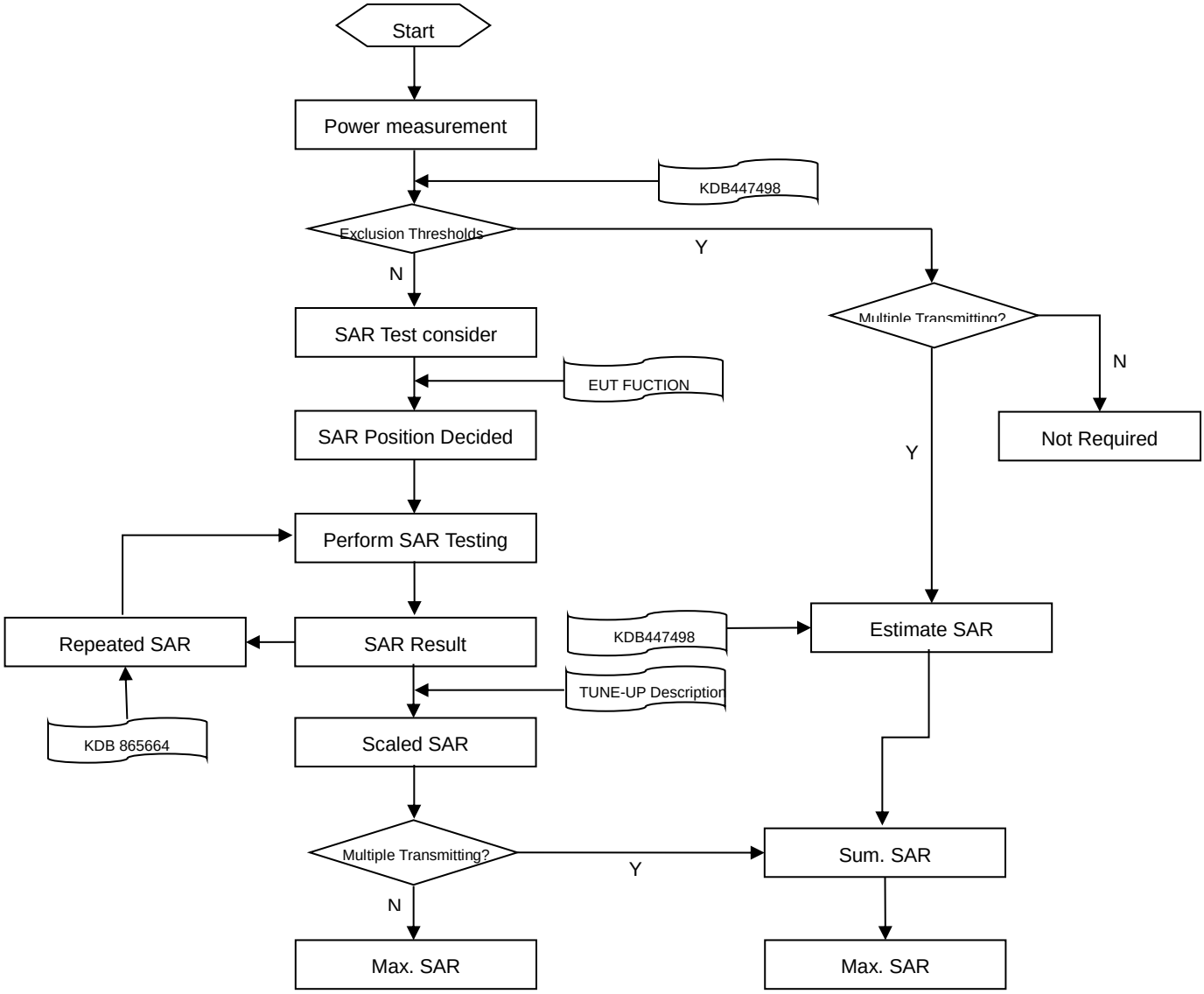
## 6.4 Product Specific 10g Exposure Consideration

According with FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, unless it is confirmed otherwise through KDB inquiries, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance;

The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at $\leqslant$ 25 mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

# 7 MEASUREMENT PROCEDURE

## 7.1 Measurement Process Diagram



## 7.2 SAR Scan General Requirement

Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Boththe probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1 g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std 1528-2013.

<table>
<tr><th colspan="3"></th><th>≤3GHz</th><th>>3GHz</th></tr>
<tr><td colspan="3">Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface</td><td>5±1 mm</td><td>½·δ·ln(2)±0.5 mm</td></tr>
<tr><td colspan="3">Maximum probe angle from probe axis to phantom surface normal at the measurement location</td><td>30°±1°</td><td>20°±1°</td></tr>
<tr><td colspan="3" rowspan="2">Maximum area scan spatial resolution: Δx Area , Δy Area</td><td>≤ 2 GHz: ≤ 15 mm<br>2 – 3 GHz: ≤ 12 mm</td><td>3–4 GHz: ≤ 12 mm<br>4 – 6 GHz: ≤ 10 mm</td></tr>
<tr><td colspan="2">When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.</td></tr>
<tr><td colspan="3">Maximum zoom scan spatial resolution: Δx Zoom , Δy Zoom</td><td>≤ 2 GHz: ≤ 8 mm<br>2 –3 GHz: ≤ 5 mm*</td><td>3–4 GHz: ≤ 5 mm*<br>4 – 6 GHz: ≤ 4 mm*</td></tr>
<tr><td rowspan="7">Maximum zoom scan spatial resolution, normal to phantom surface</td><td colspan="2" rowspan="3">uniform grid: Δz Zoom (n)</td><td rowspan="3">≤ 5 mm</td><td>3–4 GHz: ≤ 4 mm</td></tr>
<tr><td>4–5 GHz: ≤ 3 mm</td></tr>
<tr><td>5–6 GHz: ≤ 2 mm</td></tr>
<tr><td rowspan="4">graded grid</td><td rowspan="2">Δz Zoom (1): between 1st two points closest to phantom surface</td><td rowspan="2">≤ 4 mm</td><td>3–4 GHz: ≤ 3 mm</td></tr>
<tr><td>4–5 GHz: ≤ 2.5 mm</td></tr>
<tr><td>5–6 GHz: ≤ 2 mm</td></tr>
<tr><td>Δz Zoom (n>1): between subsequent points</td><td colspan="2">≤ 1.5·Δz Zoom (n-1)</td></tr>
<tr><td rowspan="3">Minimum zoom scan volume</td><td colspan="2" rowspan="3">x, y, z</td><td rowspan="3">≥30 mm</td><td>3–4 GHz: ≥ 28 mm</td></tr>
<tr><td>4–5 GHz: ≥ 25 mm</td></tr>
<tr><td>5–6 GHz: ≥ 22 mm</td></tr>
<tr><td colspan="5">Note:<br>1. δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.<br>2. * When zoom scan is required and the reported SAR from the area scan based 1 g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.</td></tr>
</table>

## 7.3 Measurement Procedure

The following steps are used for each test position

a. Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
b. Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
c. Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
d. Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 *32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

## 7.4 Area & Zoom Scan Procedure

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r04 quoted below.

When the 1 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

# 8 UL duty cycle detection mechanism specification

## 8.1 General description of UL duty cycle detection mechanism.

This mobile phone supporting the UL duty cycle detection mechanism for LTE TDD & NR5G (including FR1 SA and FR1 ENDC), the rest RAT will not apply. The main purpose is to distinguish duty cycle of UL symbol and apply the relevant power levels accordingly. The main purpose is to provide enhanced user experience while meeting the SAR compliance for transmission scheduling.

**Table 1: Summary of UL duty cycle detection mechanism (Note 1)**

| UL duty cycle | $P_{cmax}$ |
|---|---|
| k1% | $P_{max} – Max(P_{SAR}- k1\ P_{offset}, 0)$ |
| k2% | $P_{max} – Max(P_{SAR}- k2\ P_{offset}, 0)$ |
| … | … |
| kn% (max UL duty cycle) | $P_{max} – Max(P_{SAR}- kn\ P_{offset}, 0)$ |

Note 1 (See note 4 for more information):

UL duty cycle: Uplink duty cycle.

$P_{cmax}$: Power level for each UL duty cycle.

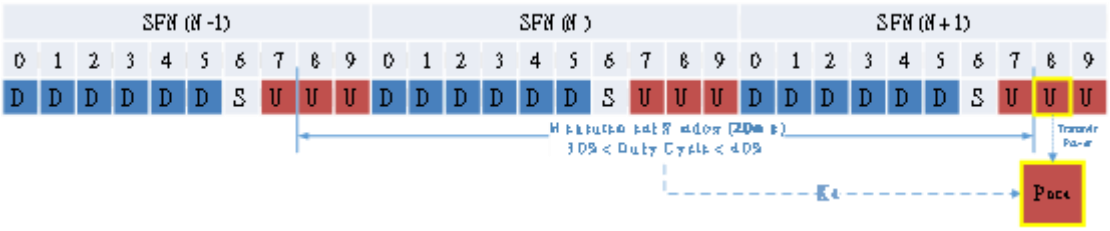
$P_{max}$: Max power level.

$P_{SAR}$: Actual max power offset.

$P_{offset}$: The theoretical value of power offset calculated according to the duty cycle K parameter, is an invariant parameter.

## 8.2 UL duty cycle detection mechanism clarifications

UL duty cycle detection mechanism, based on MTK platform. There is sliding windows moving by one slot and real-time caculate the percentage of the symbols with transmit, then apply the relevant power levels accordingly.




The software of the device has standalone module (Note 2) to monitor the UL scheduling with sliding windows and caculate the current transmission percentage k, and apply the relevant power levels accordingly on next UL slot.

Note 2:

This standalone module only monitor LTE TDD & NR5G (including FR1 SA and FR1 ENDC), the rest RAT will not apply.

The device offers max to 9 sets power offset NVs for each NR5G band, and 6 sets power offset NVs for each LTE TDD band. These NVs offer addtion power offset for all LTE TDD/NR bands. When certain set NVs works, $P_{cmax}$ will caculate with below funtion:

**$P_{cmax} = P_{max} – Max(P_{SAR}- kn\ P_{offset}, 0)$ ( Note 3)**

Note 3 (See note 4 for more information):

$P_{cmax}$: Power level for each UL duty cycle.

$P_{max}$: Max power level.

$P_{SAR}$: Actual max power offset.

$P_{offset}$: The theoretical value of power offset calculated according to the duty cycle K parameter, is an invariant parameter.

More details information followings:

**Table 2: NR5G bands (Note 4)**

| (1#) UL duty cycle | (2#) Max UL duty cycle | (3#) Max UL duty cycle factor (dB) | (4#) $P_{offset}$ | (7#) $P_{cmax}$ (dBm) | (8#) Frame-Averaged $P_{cmax}$ (dBm) |
|---|---|---|---|---|---|
| 0%≤ K1 ≤10% | 10% | -10.00 | 10.00 | 24.20 | 14.20 |
| 10%< K2 ≤20% | 20% | -6.99 | 6.50 | 24.20 | 17.21 |
| 20%< K3≤ 30% | 30% | -5.23 | 5.00 | 23.70 | 18.47 |
| 30%< K4 ≤40% | 40% | -3.98 | 3.50 | 22.20 | 18.22 |
| 40%< K5 ≤50% | 50% | -3.01 | 3.00 | 21.70 | 18.69 |
| 50%< K6 ≤60% | 60% | -2.22 | 2.00 | 20.70 | 18.48 |
| 60%< K7 ≤70% | 70% | -1.55 | 1.50 | 20.20 | 18.65 |
| 70%< K8 ≤80% | 80% | -0.97 | 0.50 | 19.20 | 18.23 |
| 80% <K9 ≤100% | 100% | 0.00 | 0.00 | 18.70 | 18.70 |
| (5#)$P_{max}$ = 24.20 (dBm), (6#)$P_{SAR}$ = 5.50 (dB) | | | | | |

Note 4:

(1#)UL duty cycle: The device offers 9 sets UL duty cycle for each NR5G band. determined by UL symbol numbers percentage during dedicated period, 5G NR UL duty cycle range from 0% to 100%, is an invariant parameter.

(2#)Max UL duty cycle: Maximum duty cycle for each UL duty cycle sets, is an invariant parameter.

(3#)Max UL duty cycle_factor = 10*log(Max UL duty cycle) , is an invariant parameter.

(4#)$P_{offset}$ = The theoretical value of power offset calculated according to the duty cycle K parameter, is an invariant parameter. The 5G NR values are shown in Table 2, and the 4G LTE TDD values are shown in Table 3.

(5#)$P_{max}$ : Max power level, the maximum power value of each band is different, defined by factory.

(6#)$P_{SAR}$: Actual max power offset, the max power offset of each band is different, defined by factory. The value of $P_{SAR}$ is affected by the SAR value of the maximum UL duty cycle configuration(5G NR is 100%, LTE TDD is 63.3%). For example, the SAR of the UE meets the standard requirements under the maximum UL duty cycle and the highest power ($P_{max}$- 0dB) configuration, and $P_{SAR}$ = 0dB; the SAR of the UE meets the standard requirements under the maximum UL duty cycle and the highest power ($P_{max}$- 4dB) configuration, and $P_{SAR}$ = 4dB.

(7#)$P_{cmax}$: Power level for each UL duty cycle, the power level of each band is different, $P_{cmax} = P_{max} - Max(P_{SAR}- kn\ P_{offset}, 0)$, the larger UL duty cycle, the lower power level; the smaller UL duty cycle, the higher power level, but will not greater than the full power of UE.

(8#) Frame-Averaged $P_{cmax}$: Frame-Averaged $P_{cmax}$ = (7#)$P_{cmax}$ + (3#)Max UL duty cycle_factor, SAR test reduction for 9 sets (1#)UL duty cycle is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions.

For 5G NR test, using factory test mode to perform SAR with the highest Frame-Averaged $P_{cmax}$ configuration, and UL duty cycle =100%.

**Table 3: LTE TDD bands (Note 5)**

| UL duty cycle | Max UL duty cycle | Max UL duty cycle factor (dB) | $P_{offset}$ | $P_{cmax}$ (dBm) | Frame-Averaged $P_{cmax}$ (dBm) |
|---|---|---|---|---|---|
| 0%< K1 ≤20% | 11.7% | -9.32 | 5.00 | 24.00 | 14.68 |
| 20%< K2≤ 30% | 23.3% | -6.33 | 3.50 | 23.50 | 17.17 |
| 30%< K3 ≤40% | 31.7% | -4.99 | 2.00 | 22.00 | 17.01 |
| 40%< K4 ≤50% | 43.3% | -3.64 | 1.50 | 21.50 | 17.86 |
| 50%< K5 ≤60% | 53.3% | -2.73 | 0.50 | 20.50 | 17.77 |
| 60%< K6 ≤63.3% | 63.3% | -1.99 | 0.00 | 20.00 | 18.01 |
| $P_{max}$ = 24.00 (dBm), $P_{SAR}$ = 4.00 (dB) | | | | | |

Note 5:

UL duty cycle: The device offers 6 sets UL duty cycle for each LTE TDD band. determined by UL symbol numbers percentage during dedicated period, 3GPP 36.211 defines LTE TDD uplink time slot configuration, maximum uplink duty cycle is 63.3%.

| Configuration | Periodicity | Subframe number | | | | | | | | | | max UL duty cycle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| 0 | 5 ms | D | S | U | U | U | D | S | U | U | U | 63.3% |
| 1 | 5 ms | D | S | U | U | D | D | S | U | U | D | 43.3% |
| 2 | 5 ms | D | S | U | D | D | D | S | U | D | D | 23.3% |
| 3 | 10 ms | D | S | U | U | U | D | D | D | D | D | 31.7% |
| 4 | 10 ms | D | S | U | U | D | D | D | D | D | D | 21.7% |
| 5 | 10 ms | D | S | U | D | D | D | D | D | D | D | 11.7% |
| 6 | 5 ms | D | S | U | U | U | D | S | U | U | D | 53.3% |

For LTE TDD test, power classusing uplink-downlink configuration 0 and special subframe configuration 7 for frome structure type to perform SAR with the highest Frame-Averaged $P_{cmax}$ configuration, and UL duty cycle =63.3%.

Note 6:

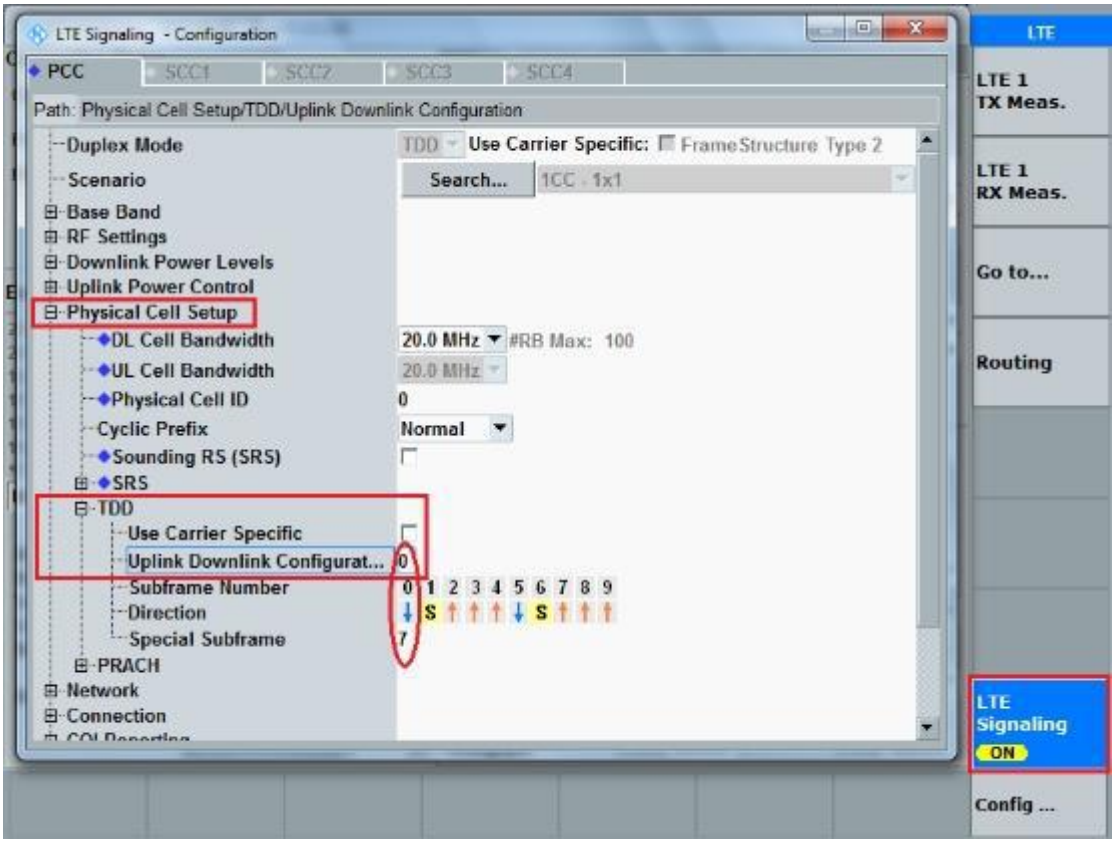
Conducted Power in each UL duty cycle for each LTE TDD/NR band please refer the document “DC SAR Power List”

## 8.3 SAR test Plan

For each band, the SAR evaluation uses the highest Frame-Averaged $P_{cmax}$ configuration.

(3.1) For 5G NR test, using factory test mode to perform SAR with the highest Frame-Averaged $P_{cmax}$ configuration, and UL duty cycle =100%.

(3.2) For LTE TDD test, power classusing uplink-downlink configuration 0 and special subframe configuration 7 for frome structure type to perform SAR with the highest Frame-Averaged $P_{cmax}$ configuration, and UL duty cycle =63.3%.



# 9 CONDUCTED RF OUPUT POWER

## 9.1 GSM

Please refer the document “BL-SZ2320168-701 Conducted RF Output Power List.pdf”.

## 9.2 WCDMA

Please refer the document “BL-SZ2320168-701 Conducted RF Output Power List.pdf”.

## 9.3 LTE

Note:
1. This devices supports intra-band uplink CA of 7C/38C/41C.
2. For intra-band uplink carrier aggregation power verification and measurement is selected highest PCC and SCC bandwidth combination to do and was according to 3GPP 36.52101 sectino6.2.2A.1 and section 6.2.2A.2 test procedure.
3. For intra-band uplink CA output power was measured high / middle / low channel combination, and for SAR verification is selected highest output power combination with each exposure condition in each frequency band using the highest SAR configuration test in standalone LTE mode.

Please refer the document “BL-SZ2320168-701 Conducted RF Output Power List.pdf”.

## 9.4 NR-SA Power

Please refer the document “BL-SZ2320168-701 Conducted RF Output Power List.pdf”.

## 9.5 LTE-ENDC Power

Please refer the document “BL-SZ2320168-701 Conducted RF Output Power List.pdf”.

## 9.6 NR-NSA Power

Please refer the document “BL-SZ2320168-701 Conducted RF Output Power List.pdf”.

## 9.7 WIFI

### 9.7.1 2.4G WIFI-ANT8-Full power

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | 16.87 | 18.50 | Yes |
| | | 6 | 2437 | 16.92 | 18.50 | Yes |
| | | 11 | 2462 | **17.17** | 18.50 | Yes |
| | 802.11g | 1 | 2412 | 17.75 | 19.00 | No |
| | | 6 | 2437 | 17.87 | 19.00 | No |
| | | 11 | 2462 | 17.64 | 19.00 | No |
| | 802.11n(HT20) | 1 | 2412 | 17.76 | 19.00 | No |
| | | 6 | 2437 | 17.88 | 19.00 | No |
| | | 11 | 2462 | 17.67 | 19.00 | No |
| | 802.11n(HT40) | 3 | 2422 | 17.72 | 19.00 | No |
| | | 6 | 2432 | 17.72 | 19.00 | No |
| | | 9 | 2452 | 17.82 | 19.00 | No |
| | VHT(20 MHz) | 1 | 2412 | 17.63 | 19.00 | No |
| | | 6 | 2437 | 17.74 | 19.00 | No |
| | | 11 | 2462 | 17.94 | 19.00 | No |
| | VHT(40 MHz) | 3 | 2422 | 17.81 | 19.00 | No |
| | | 6 | 2432 | 17.93 | 19.00 | No |
| | | 9 | 2452 | 17.83 | 19.00 | No |
| | 802.11ax(HE20) | 1 | 2412 | 17.69 | 19.00 | No |
| | | 6 | 2437 | 17.98 | 19.00 | No |
| | | 11 | 2462 | 17.70 | 19.00 | No |
| | 802.11ax(HE40) | 3 | 2422 | 17.77 | 19.00 | No |
| | | 6 | 2432 | 17.95 | 19.00 | No |
| | | 9 | 2452 | 17.79 | 19.00 | No |

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

2) When multiple transmission modes (802.11g/n/VHT/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11g mode is selected over 802.11n.

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is $\leqslant$ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR =0.738 * (79.43mW/70.79mW) = 0.828 W/Kg, so 2.4G OFDM SAR test is not required.

## 9.7.2 2.4G WIFI-ANT8-Level1

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | 16.36 | 17.00 | Yes |
| | | 6 | 2437 | **16.90** | 17.00 | Yes |
| | | 11 | 2462 | 16.89 | 17.00 | Yes |
| | 802.11g | 1 | 2412 | 16.30 | 17.00 | No |
| | | 6 | 2437 | 16.38 | 17.00 | No |
| | | 11 | 2462 | 16.21 | 17.00 | No |
| | 802.11n(HT20) | 1 | 2412 | 16.05 | 17.00 | No |
| | | 6 | 2437 | 16.39 | 17.00 | No |
| | | 11 | 2462 | 16.21 | 17.00 | No |
| | 802.11n(HT40) | 3 | 2422 | 16.25 | 17.00 | No |
| | | 6 | 2432 | 16.04 | 17.00 | No |
| | | 9 | 2452 | 16.14 | 17.00 | No |
| | VHT(20 MHz) | 1 | 2412 | 16.17 | 17.00 | No |
| | | 6 | 2437 | 16.10 | 17.00 | No |
| | | 11 | 2462 | 16.11 | 17.00 | No |
| | VHT(40 MHz) | 3 | 2422 | 16.02 | 17.00 | No |
| | | 6 | 2432 | 16.36 | 17.00 | No |
| | | 9 | 2452 | 16.27 | 17.00 | No |
| | 802.11ax(HE20) | 1 | 2412 | 16.13 | 17.00 | No |
| | | 6 | 2437 | 16.27 | 17.00 | No |
| | | 11 | 2462 | 16.26 | 17.00 | No |
| | 802.11ax(HE40) | 3 | 2422 | 16.04 | 17.00 | No |
| | | 6 | 2432 | 16.01 | 17.00 | No |
| | | 9 | 2452 | 16.10 | 17.00 | No |

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

2) When multiple transmission modes (802.11g/n/VHT/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11g mode is selected over 802.11n.

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR =0.738 * (50.12mW/50.12mW) = 0.738 W/Kg, so 2.4G OFDM SAR test is not required.

### 9.7.3 2.4G WIFI-ANT8-Level2

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | 16.36 | 17.00 | Yes |
| | | 6 | 2437 | **16.90** | 17.00 | Yes |
| | | 11 | 2462 | 16.89 | 17.00 | Yes |
| | 802.11g | 1 | 2412 | 16.30 | 17.00 | No |
| | | 6 | 2437 | 16.38 | 17.00 | No |
| | | 11 | 2462 | 16.21 | 17.00 | No |
| | 802.11n(HT20) | 1 | 2412 | 16.05 | 17.00 | No |
| | | 6 | 2437 | 16.39 | 17.00 | No |
| | | 11 | 2462 | 16.21 | 17.00 | No |
| | 802.11n(HT40) | 3 | 2422 | 16.25 | 17.00 | No |
| | | 6 | 2432 | 16.04 | 17.00 | No |
| | | 9 | 2452 | 16.14 | 17.00 | No |
| | VHT(20 MHz) | 1 | 2412 | 16.17 | 17.00 | No |
| | | 6 | 2437 | 16.10 | 17.00 | No |
| | | 11 | 2462 | 16.11 | 17.00 | No |
| | VHT(40 MHz) | 3 | 2422 | 16.02 | 17.00 | No |
| | | 6 | 2432 | 16.36 | 17.00 | No |
| | | 9 | 2452 | 16.27 | 17.00 | No |
| | 802.11ax(HE20) | 1 | 2412 | 16.13 | 17.00 | No |
| | | 6 | 2437 | 16.27 | 17.00 | No |
| | | 11 | 2462 | 16.26 | 17.00 | No |
| | 802.11ax(HE40) | 3 | 2422 | 16.04 | 17.00 | No |
| | | 6 | 2432 | 16.01 | 17.00 | No |
| | | 9 | 2452 | 16.10 | 17.00 | No |

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

2) When multiple transmission modes (802.11g/n/VHT/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11g mode is selected over 802.11n.

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR =0.738 * (50.12mW/50.12mW) = 0.738 W/Kg, so 2.4G OFDM SAR test is not required.

### 9.7.4 2.4G WIFI-ANT8-Level3

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | 15.88 | 16.00 | Yes |
| | | 6 | 2437 | 15.25 | 16.00 | Yes |
| | | 11 | 2462 | **15.95** | 16.00 | Yes |
| | 802.11g | 1 | 2412 | 15.18 | 16.00 | No |
| | | 6 | 2437 | 15.11 | 16.00 | No |
| | | 11 | 2462 | 15.15 | 16.00 | No |
| | 802.11n(HT20) | 1 | 2412 | 15.08 | 16.00 | No |
| | | 6 | 2437 | 15.00 | 16.00 | No |
| | | 11 | 2462 | 15.00 | 16.00 | No |
| | 802.11n(HT40) | 3 | 2422 | 15.01 | 16.00 | No |
| | | 6 | 2432 | 15.14 | 16.00 | No |
| | | 9 | 2452 | 15.19 | 16.00 | No |
| | VHT(20 MHz) | 1 | 2412 | 15.25 | 16.00 | No |
| | | 6 | 2437 | 15.15 | 16.00 | No |
| | | 11 | 2462 | 15.28 | 16.00 | No |
| | VHT(40 MHz) | 3 | 2422 | 15.23 | 16.00 | No |
| | | 6 | 2432 | 15.34 | 16.00 | No |
| | | 9 | 2452 | 15.12 | 16.00 | No |
| | 802.11ax(HE20) | 1 | 2412 | 15.30 | 16.00 | No |
| | | 6 | 2437 | 15.35 | 16.00 | No |
| | | 11 | 2462 | 15.15 | 16.00 | No |
| | 802.11ax(HE40) | 3 | 2422 | 15.40 | 16.00 | No |
| | | 6 | 2432 | 15.13 | 16.00 | No |
| | | 9 | 2452 | 15.22 | 16.00 | No |

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

2) When multiple transmission modes (802.11g/n/VHT/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11g mode is selected over 802.11n.

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR =0.546 * (39.81mW/39.81mW) = 0.546 W/Kg, so 2.4G OFDM SAR test is not required.

### 9.7.5 2.4G WIFI-ANT8-Level4

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | 14.22 | 14.50 | Yes |
| | | 6 | 2437 | **14.47** | 14.50 | Yes |
| | | 11 | 2462 | 13.36 | 14.50 | Yes |
| | 802.11g | 1 | 2412 | 13.64 | 14.50 | No |
| | | 6 | 2437 | 13.88 | 14.50 | No |
| | | 11 | 2462 | 13.60 | 14.50 | No |
| | 802.11n(HT20) | 1 | 2412 | 13.71 | 14.50 | No |
| | | 6 | 2437 | 13.81 | 14.50 | No |
| | | 11 | 2462 | 13.58 | 14.50 | No |
| | 802.11n(HT40) | 3 | 2422 | 13.76 | 14.50 | No |
| | | 6 | 2432 | 13.81 | 14.50 | No |
| | | 9 | 2452 | 13.72 | 14.50 | No |
| | VHT(20 MHz) | 1 | 2412 | 13.59 | 14.50 | No |
| | | 6 | 2437 | 13.59 | 14.50 | No |
| | | 11 | 2462 | 13.61 | 14.50 | No |
| | VHT(40 MHz) | 3 | 2422 | 13.53 | 14.50 | No |
| | | 6 | 2432 | 13.64 | 14.50 | No |
| | | 9 | 2452 | 13.83 | 14.50 | No |
| | 802.11ax(HE20) | 1 | 2412 | 13.86 | 14.50 | No |
| | | 6 | 2437 | 13.89 | 14.50 | No |
| | | 11 | 2462 | 13.64 | 14.50 | No |
| | 802.11ax(HE40) | 3 | 2422 | 13.67 | 14.50 | No |
| | | 6 | 2432 | 13.51 | 14.50 | No |
| | | 9 | 2452 | 13.59 | 14.50 | No |

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

2) When multiple transmission modes (802.11g/n/VHT/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11g mode is selected over 802.11n.

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is $\leqslant$ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR =0.351 * (28.18mW/28.18mW) = 0.351 W/Kg, so 2.4G OFDM SAR test is not required.

### 9.7.6 2.4G WIFI-ANT8-Level5

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | 16.87 | 18.50 | Yes |
| | | 6 | 2437 | 16.92 | 18.50 | Yes |
| | | 11 | 2462 | **17.17** | 18.50 | Yes |
| | 802.11g | 1 | 2412 | 17.75 | 19.00 | No |
| | | 6 | 2437 | 17.87 | 19.00 | No |
| | | 11 | 2462 | 17.64 | 19.00 | No |
| | 802.11n(HT20) | 1 | 2412 | 17.76 | 19.00 | No |
| | | 6 | 2437 | 17.88 | 19.00 | No |
| | | 11 | 2462 | 17.67 | 19.00 | No |
| | 802.11n(HT40) | 3 | 2422 | 17.72 | 19.00 | No |
| | | 6 | 2432 | 17.72 | 19.00 | No |
| | | 9 | 2452 | 17.82 | 19.00 | No |
| | VHT(20 MHz) | 1 | 2412 | 17.63 | 19.00 | No |
| | | 6 | 2437 | 17.74 | 19.00 | No |
| | | 11 | 2462 | 17.94 | 19.00 | No |
| | VHT(40 MHz) | 3 | 2422 | 17.81 | 19.00 | No |
| | | 6 | 2432 | 17.93 | 19.00 | No |
| | | 9 | 2452 | 17.83 | 19.00 | No |
| | 802.11ax(HE20) | 1 | 2412 | 17.69 | 19.00 | No |
| | | 6 | 2437 | 17.98 | 19.00 | No |
| | | 11 | 2462 | 17.70 | 19.00 | No |
| | 802.11ax(HE40) | 3 | 2422 | 17.77 | 19.00 | No |
| | | 6 | 2432 | 17.95 | 19.00 | No |
| | | 9 | 2452 | 17.79 | 19.00 | No |

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

2) When multiple transmission modes (802.11g/n/VHT/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11g mode is selected over 802.11n.

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is $\leqslant$ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR =0.402 * (79.43mW/70.79mW) = 0.451 W/Kg, so 2.4G OFDM SAR test is not required.

### 9.7.7 2.4G WIFI-ANT8-Level6

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | 16.87 | 18.50 | Yes |
| | | 6 | 2437 | 16.92 | 18.50 | Yes |
| | | 11 | 2462 | **17.17** | 18.50 | Yes |
| | 802.11g | 1 | 2412 | 17.75 | 19.00 | No |
| | | 6 | 2437 | 17.87 | 19.00 | No |
| | | 11 | 2462 | 17.64 | 19.00 | No |
| | 802.11n(HT20) | 1 | 2412 | 17.76 | 19.00 | No |
| | | 6 | 2437 | 17.88 | 19.00 | No |
| | | 11 | 2462 | 17.67 | 19.00 | No |
| | 802.11n(HT40) | 3 | 2422 | 17.72 | 19.00 | No |
| | | 6 | 2432 | 17.72 | 19.00 | No |
| | | 9 | 2452 | 17.82 | 19.00 | No |
| | VHT(20 MHz) | 1 | 2412 | 17.63 | 19.00 | No |
| | | 6 | 2437 | 17.74 | 19.00 | No |
| | | 11 | 2462 | 17.94 | 19.00 | No |
| | VHT(40 MHz) | 3 | 2422 | 17.81 | 19.00 | No |
| | | 6 | 2432 | 17.93 | 19.00 | No |
| | | 9 | 2452 | 17.83 | 19.00 | No |
| | 802.11ax(HE20) | 1 | 2412 | 17.69 | 19.00 | No |
| | | 6 | 2437 | 17.98 | 19.00 | No |
| | | 11 | 2462 | 17.70 | 19.00 | No |
| | 802.11ax(HE40) | 3 | 2422 | 17.77 | 19.00 | No |
| | | 6 | 2432 | 17.95 | 19.00 | No |
| | | 9 | 2452 | 17.79 | 19.00 | No |

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

2) When multiple transmission modes (802.11g/n/VHT/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11g mode is selected over 802.11n.

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR =0.402 * (79.43mW/70.79mW) = 0.451 W/Kg, so 2.4G OFDM SAR test is not required.

### 9.7.8 2.4G WIFI-ANT8-Level7

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | 15.88 | 16.00 | Yes |
| | | 6 | 2437 | 15.25 | 16.00 | Yes |
| | | 11 | 2462 | **15.95** | 16.00 | Yes |
| | 802.11g | 1 | 2412 | 15.18 | 16.00 | No |
| | | 6 | 2437 | 15.11 | 16.00 | No |
| | | 11 | 2462 | 15.15 | 16.00 | No |
| | 802.11n(HT20) | 1 | 2412 | 15.08 | 16.00 | No |
| | | 6 | 2437 | 15.00 | 16.00 | No |
| | | 11 | 2462 | 15.00 | 16.00 | No |
| | 802.11n(HT40) | 3 | 2422 | 15.01 | 16.00 | No |
| | | 6 | 2432 | 15.14 | 16.00 | No |
| | | 9 | 2452 | 15.19 | 16.00 | No |
| | VHT(20 MHz) | 1 | 2412 | 15.25 | 16.00 | No |
| | | 6 | 2437 | 15.15 | 16.00 | No |
| | | 11 | 2462 | 15.28 | 16.00 | No |
| | VHT(40 MHz) | 3 | 2422 | 15.23 | 16.00 | No |
| | | 6 | 2432 | 15.34 | 16.00 | No |
| | | 9 | 2452 | 15.12 | 16.00 | No |
| | 802.11ax(HE20) | 1 | 2412 | 15.30 | 16.00 | No |
| | | 6 | 2437 | 15.35 | 16.00 | No |
| | | 11 | 2462 | 15.15 | 16.00 | No |
| | 802.11ax(HE40) | 3 | 2422 | 15.40 | 16.00 | No |
| | | 6 | 2432 | 15.13 | 16.00 | No |
| | | 9 | 2452 | 15.22 | 16.00 | No |

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

2) When multiple transmission modes (802.11g/n/VHT/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11g mode is selected over 802.11n.

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR =0.175 * (39.81mW/39.81mW) = 0.175 W/Kg, so 2.4G OFDM SAR test is not required.

## 9.7.9 2.4G WIFI-ANT8-Level8

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | 12.56 | 13.00 | Yes |
| | | 6 | 2437 | **12.71** | 13.00 | Yes |
| | | 11 | 2462 | 12.47 | 13.00 | Yes |
| | 802.11g | 1 | 2412 | 11.39 | 13.00 | No |
| | | 6 | 2437 | 11.80 | 13.00 | No |
| | | 11 | 2462 | 11.92 | 13.00 | No |
| | 802.11n(HT20) | 1 | 2412 | 12.03 | 13.00 | No |
| | | 6 | 2437 | 12.21 | 13.00 | No |
| | | 11 | 2462 | 11.92 | 13.00 | No |
| | 802.11n(HT40) | 3 | 2422 | 12.33 | 13.00 | No |
| | | 6 | 2432 | 11.74 | 13.00 | No |
| | | 9 | 2452 | 11.98 | 13.00 | No |
| | VHT(20 MHz) | 1 | 2412 | 11.34 | 13.00 | No |
| | | 6 | 2437 | 12.12 | 13.00 | No |
| | | 11 | 2462 | 11.58 | 13.00 | No |
| | VHT(40 MHz) | 3 | 2422 | 11.84 | 13.00 | No |
| | | 6 | 2432 | 11.77 | 13.00 | No |
| | | 9 | 2452 | 12.35 | 13.00 | No |
| | 802.11ax(HE20) | 1 | 2412 | 11.77 | 13.00 | No |
| | | 6 | 2437 | 12.06 | 13.00 | No |
| | | 11 | 2462 | 12.19 | 13.00 | No |
| | 802.11ax(HE40) | 3 | 2422 | 12.73 | 13.00 | No |
| | | 6 | 2432 | 12.20 | 13.00 | No |
| | | 9 | 2452 | 12.85 | 13.00 | No |

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

2) When multiple transmission modes (802.11g/n/VHT/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11g mode is selected over 802.11n.

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR =0.087 * (19.95mW/19.95mW) = 0.087 W/Kg, so 2.4G OFDM SAR test is not required.

## 9.7.10 2.4G WIFI-ANT2-Full power

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | **17.12** | 18.50 | Yes |
| | | 6 | 2437 | 16.86 | 18.50 | Yes |
| | | 11 | 2462 | 16.81 | 18.50 | Yes |
| | 802.11g | 1 | 2412 | 18.33 | 19.00 | No |
| | | 6 | 2437 | 18.04 | 19.00 | No |
| | | 11 | 2462 | 18.20 | 19.00 | No |
| | 802.11n(HT20) | 1 | 2412 | 18.21 | 19.00 | No |
| | | 6 | 2437 | 18.36 | 19.00 | No |
| | | 11 | 2462 | 18.34 | 19.00 | No |
| | 802.11n(HT40) | 3 | 2422 | 18.26 | 19.00 | No |
| | | 6 | 2432 | 18.37 | 19.00 | No |
| | | 9 | 2452 | 18.38 | 19.00 | No |
| | VHT(20 MHz) | 1 | 2412 | 18.29 | 19.00 | No |
| | | 6 | 2437 | 18.36 | 19.00 | No |
| | | 11 | 2462 | 18.02 | 19.00 | No |
| | VHT(40 MHz) | 3 | 2422 | 18.02 | 19.00 | No |
| | | 6 | 2432 | 18.27 | 19.00 | No |
| | | 9 | 2452 | 18.34 | 19.00 | No |
| | 802.11ax(HE20) | 1 | 2412 | 18.18 | 19.00 | No |
| | | 6 | 2437 | 18.34 | 19.00 | No |
| | | 11 | 2462 | 18.20 | 19.00 | No |
| | 802.11ax(HE40) | 3 | 2422 | 18.32 | 19.00 | No |
| | | 6 | 2432 | 18.10 | 19.00 | No |
| | | 9 | 2452 | 18.22 | 19.00 | No |

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

2) When multiple transmission modes (802.11g/n/VHT/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11g mode is selected over 802.11n.

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR =0.365 * (79.43mW/70.79mW) = 0.410 W/Kg, so 2.4G OFDM SAR test is not required.

## 9.7.11 2.4G WIFI-ANT2-Level1

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | **16.76** | 17.00 | Yes |
| | | 6 | 2437 | 16.52 | 17.00 | Yes |
| | | 11 | 2462 | 16.08 | 17.00 | Yes |
| | 802.11g | 1 | 2412 | 16.01 | 17.00 | No |
| | | 6 | 2437 | 16.21 | 17.00 | No |
| | | 11 | 2462 | 16.18 | 17.00 | No |
| | 802.11n(HT20) | 1 | 2412 | 16.21 | 17.00 | No |
| | | 6 | 2437 | 16.27 | 17.00 | No |
| | | 11 | 2462 | 16.01 | 17.00 | No |
| | 802.11n(HT40) | 3 | 2422 | 16.12 | 17.00 | No |
| | | 6 | 2432 | 16.12 | 17.00 | No |
| | | 9 | 2452 | 16.11 | 17.00 | No |
| | VHT(20 MHz) | 1 | 2412 | 16.40 | 17.00 | No |
| | | 6 | 2437 | 16.37 | 17.00 | No |
| | | 11 | 2462 | 16.25 | 17.00 | No |
| | VHT(40 MHz) | 3 | 2422 | 16.23 | 17.00 | No |
| | | 6 | 2432 | 16.23 | 17.00 | No |
| | | 9 | 2452 | 16.38 | 17.00 | No |
| | 802.11ax(HE20) | 1 | 2412 | 16.39 | 17.00 | No |
| | | 6 | 2437 | 16.17 | 17.00 | No |
| | | 11 | 2462 | 16.10 | 17.00 | No |
| | 802.11ax(HE40) | 3 | 2422 | 16.12 | 17.00 | No |
| | | 6 | 2432 | 16.19 | 17.00 | No |
| | | 9 | 2452 | 16.37 | 17.00 | No |

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

2) When multiple transmission modes (802.11g/n/VHT/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11g mode is selected over 802.11n.

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is $\leqslant$ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR =0.365 * (50.12mW/50.12mW) = 0.365 W/Kg, so 2.4G OFDM SAR test is not required.

## 9.7.12 2.4G WIFI-ANT2-Level2

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | **16.76** | 17.00 | Yes |
| | | 6 | 2437 | 16.52 | 17.00 | Yes |
| | | 11 | 2462 | 16.08 | 17.00 | Yes |
| | 802.11g | 1 | 2412 | 16.01 | 17.00 | No |
| | | 6 | 2437 | 16.21 | 17.00 | No |
| | | 11 | 2462 | 16.18 | 17.00 | No |
| | 802.11n(HT20) | 1 | 2412 | 16.21 | 17.00 | No |
| | | 6 | 2437 | 16.27 | 17.00 | No |
| | | 11 | 2462 | 16.01 | 17.00 | No |
| | 802.11n(HT40) | 3 | 2422 | 16.12 | 17.00 | No |
| | | 6 | 2432 | 16.12 | 17.00 | No |
| | | 9 | 2452 | 16.11 | 17.00 | No |
| | VHT(20 MHz) | 1 | 2412 | 16.40 | 17.00 | No |
| | | 6 | 2437 | 16.37 | 17.00 | No |
| | | 11 | 2462 | 16.25 | 17.00 | No |
| | VHT(40 MHz) | 3 | 2422 | 16.23 | 17.00 | No |
| | | 6 | 2432 | 16.23 | 17.00 | No |
| | | 9 | 2452 | 16.38 | 17.00 | No |
| | 802.11ax(HE20) | 1 | 2412 | 16.39 | 17.00 | No |
| | | 6 | 2437 | 16.17 | 17.00 | No |
| | | 11 | 2462 | 16.10 | 17.00 | No |
| | 802.11ax(HE40) | 3 | 2422 | 16.12 | 17.00 | No |
| | | 6 | 2432 | 16.19 | 17.00 | No |
| | | 9 | 2452 | 16.37 | 17.00 | No |

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

2) When multiple transmission modes (802.11g/n/VHT/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11g mode is selected over 802.11n.

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is $\leqslant$ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR =0.365 * (50.12mW/50.12mW) = 0.365 W/Kg, so 2.4G OFDM SAR test is not required.

## 9.7.13 2.4G WIFI-ANT2-Level3

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | **15.82** | 16.00 | Yes |
| | | 6 | 2437 | 15.35 | 16.00 | Yes |
| | | 11 | 2462 | 15.76 | 16.00 | Yes |
| | 802.11g | 1 | 2412 | 15.36 | 16.00 | No |
| | | 6 | 2437 | 15.37 | 16.00 | No |
| | | 11 | 2462 | 15.39 | 16.00 | No |
| | 802.11n(HT20) | 1 | 2412 | 15.04 | 16.00 | No |
| | | 6 | 2437 | 15.29 | 16.00 | No |
| | | 11 | 2462 | 15.10 | 16.00 | No |
| | 802.11n(HT40) | 3 | 2422 | 15.29 | 16.00 | No |
| | | 6 | 2432 | 15.34 | 16.00 | No |
| | | 9 | 2452 | 15.38 | 16.00 | No |
| | VHT(20 MHz) | 1 | 2412 | 15.40 | 16.00 | No |
| | | 6 | 2437 | 15.38 | 16.00 | No |
| | | 11 | 2462 | 15.03 | 16.00 | No |
| | VHT(40 MHz) | 3 | 2422 | 15.05 | 16.00 | No |
| | | 6 | 2432 | 15.40 | 16.00 | No |
| | | 9 | 2452 | 15.36 | 16.00 | No |
| | 802.11ax(HE20) | 1 | 2412 | 15.12 | 16.00 | No |
| | | 6 | 2437 | 15.04 | 16.00 | No |
| | | 11 | 2462 | 15.30 | 16.00 | No |
| | 802.11ax(HE40) | 3 | 2422 | 15.09 | 16.00 | No |
| | | 6 | 2432 | 15.10 | 16.00 | No |
| | | 9 | 2452 | 15.39 | 16.00 | No |

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

2) When multiple transmission modes (802.11g/n/VHT/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11g mode is selected over 802.11n.

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR =0.280 * (39.81mW/39.81mW) = 0.280 W/Kg, so 2.4G OFDM SAR test is not required.

## 9.7.14 2.4G WIFI-ANT2-Level4

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | **14.36** | 14.50 | Yes |
| | | 6 | 2437 | 14.09 | 14.50 | Yes |
| | | 11 | 2462 | 14.12 | 14.50 | Yes |
| | 802.11g | 1 | 2412 | 13.66 | 14.50 | No |
| | | 6 | 2437 | 13.84 | 14.50 | No |
| | | 11 | 2462 | 13.52 | 14.50 | No |
| | 802.11n(HT20) | 1 | 2412 | 13.70 | 14.50 | No |
| | | 6 | 2437 | 13.57 | 14.50 | No |
| | | 11 | 2462 | 13.67 | 14.50 | No |
| | 802.11n(HT40) | 3 | 2422 | 13.86 | 14.50 | No |
| | | 6 | 2432 | 13.50 | 14.50 | No |
| | | 9 | 2452 | 13.76 | 14.50 | No |
| | VHT(20 MHz) | 1 | 2412 | 13.88 | 14.50 | No |
| | | 6 | 2437 | 13.78 | 14.50 | No |
| | | 11 | 2462 | 13.86 | 14.50 | No |
| | VHT(40 MHz) | 3 | 2422 | 13.72 | 14.50 | No |
| | | 6 | 2432 | 13.65 | 14.50 | No |
| | | 9 | 2452 | 13.58 | 14.50 | No |
| | 802.11ax(HE20) | 1 | 2412 | 13.78 | 14.50 | No |
| | | 6 | 2437 | 13.50 | 14.50 | No |
| | | 11 | 2462 | 13.51 | 14.50 | No |
| | 802.11ax(HE40) | 3 | 2422 | 13.53 | 14.50 | No |
| | | 6 | 2432 | 13.54 | 14.50 | No |
| | | 9 | 2452 | 13.60 | 14.50 | No |

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

2) When multiple transmission modes (802.11g/n/VHT/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11g mode is selected over 802.11n.

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR =0.222 * (28.18mW/28.18mW) = 0.222 W/Kg, so 2.4G OFDM SAR test is not required.

## 9.7.15 2.4G WIFI-ANT2-Level5

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | **17.12** | 18.50 | Yes |
| | | 6 | 2437 | 16.86 | 18.50 | Yes |
| | | 11 | 2462 | 16.81 | 18.50 | Yes |
| | 802.11g | 1 | 2412 | 18.33 | 19.00 | No |
| | | 6 | 2437 | 18.04 | 19.00 | No |
| | | 11 | 2462 | 18.20 | 19.00 | No |
| | 802.11n(HT20) | 1 | 2412 | 18.21 | 19.00 | No |
| | | 6 | 2437 | 18.36 | 19.00 | No |
| | | 11 | 2462 | 18.34 | 19.00 | No |
| | 802.11n(HT40) | 3 | 2422 | 18.26 | 19.00 | No |
| | | 6 | 2432 | 18.37 | 19.00 | No |
| | | 9 | 2452 | 18.38 | 19.00 | No |
| | VHT(20 MHz) | 1 | 2412 | 18.29 | 19.00 | No |
| | | 6 | 2437 | 18.36 | 19.00 | No |
| | | 11 | 2462 | 18.02 | 19.00 | No |
| | VHT(40 MHz) | 3 | 2422 | 18.02 | 19.00 | No |
| | | 6 | 2432 | 18.27 | 19.00 | No |
| | | 9 | 2452 | 18.34 | 19.00 | No |
| | 802.11ax(HE20) | 1 | 2412 | 18.18 | 19.00 | No |
| | | 6 | 2437 | 18.34 | 19.00 | No |
| | | 11 | 2462 | 18.20 | 19.00 | No |
| | 802.11ax(HE40) | 3 | 2422 | 18.32 | 19.00 | No |
| | | 6 | 2432 | 18.10 | 19.00 | No |
| | | 9 | 2452 | 18.22 | 19.00 | No |

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

2) When multiple transmission modes (802.11g/n/VHT/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11g mode is selected over 802.11n.

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR =0.321 * (79.43mW/70.79mW) = 0.360 W/Kg, so 2.4G OFDM SAR test is not required.

## 9.7.16 2.4G WIFI-ANT2-Level6

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | **17.12** | 18.50 | Yes |
| | | 6 | 2437 | 16.86 | 18.50 | Yes |
| | | 11 | 2462 | 16.81 | 18.50 | Yes |
| | 802.11g | 1 | 2412 | 18.33 | 19.00 | No |
| | | 6 | 2437 | 18.04 | 19.00 | No |
| | | 11 | 2462 | 18.20 | 19.00 | No |
| | 802.11n(HT20) | 1 | 2412 | 18.21 | 19.00 | No |
| | | 6 | 2437 | 18.36 | 19.00 | No |
| | | 11 | 2462 | 18.34 | 19.00 | No |
| | 802.11n(HT40) | 3 | 2422 | 18.26 | 19.00 | No |
| | | 6 | 2432 | 18.37 | 19.00 | No |
| | | 9 | 2452 | 18.38 | 19.00 | No |
| | VHT(20 MHz) | 1 | 2412 | 18.29 | 19.00 | No |
| | | 6 | 2437 | 18.36 | 19.00 | No |
| | | 11 | 2462 | 18.02 | 19.00 | No |
| | VHT(40 MHz) | 3 | 2422 | 18.02 | 19.00 | No |
| | | 6 | 2432 | 18.27 | 19.00 | No |
| | | 9 | 2452 | 18.34 | 19.00 | No |
| | 802.11ax(HE20) | 1 | 2412 | 18.18 | 19.00 | No |
| | | 6 | 2437 | 18.34 | 19.00 | No |
| | | 11 | 2462 | 18.20 | 19.00 | No |
| | 802.11ax(HE40) | 3 | 2422 | 18.32 | 19.00 | No |
| | | 6 | 2432 | 18.10 | 19.00 | No |
| | | 9 | 2452 | 18.22 | 19.00 | No |

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

2) When multiple transmission modes (802.11g/n/VHT/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11g mode is selected over 802.11n.

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR =0.321 * (79.43mW/70.79mW) = 0.360 W/Kg, so 2.4G OFDM SAR test is not required.

## 9.7.17 2.4G WIFI-ANT2-Level7

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | 15.35 | 16.00 | Yes |
| | | 6 | 2437 | **15.82** | 16.00 | Yes |
| | | 11 | 2462 | 15.76 | 16.00 | Yes |
| | 802.11g | 1 | 2412 | 15.38 | 16.00 | No |
| | | 6 | 2437 | 15.32 | 16.00 | No |
| | | 11 | 2462 | 15.11 | 16.00 | No |
| | 802.11n(HT20) | 1 | 2412 | 15.12 | 16.00 | No |
| | | 6 | 2437 | 15.34 | 16.00 | No |
| | | 11 | 2462 | 15.40 | 16.00 | No |
| | 802.11n(HT40) | 3 | 2422 | 15.19 | 16.00 | No |
| | | 6 | 2432 | 15.27 | 16.00 | No |
| | | 9 | 2452 | 15.02 | 16.00 | No |
| | VHT(20 MHz) | 1 | 2412 | 15.07 | 16.00 | No |
| | | 6 | 2437 | 15.25 | 16.00 | No |
| | | 11 | 2462 | 15.19 | 16.00 | No |
| | VHT(40 MHz) | 3 | 2422 | 15.10 | 16.00 | No |
| | | 6 | 2432 | 15.13 | 16.00 | No |
| | | 9 | 2452 | 15.32 | 16.00 | No |
| | 802.11ax(HE20) | 1 | 2412 | 15.04 | 16.00 | No |
| | | 6 | 2437 | 15.06 | 16.00 | No |
| | | 11 | 2462 | 15.12 | 16.00 | No |
| | 802.11ax(HE40) | 3 | 2422 | 15.38 | 16.00 | No |
| | | 6 | 2432 | 15.00 | 16.00 | No |
| | | 9 | 2452 | 15.29 | 16.00 | No |

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

2) When multiple transmission modes (802.11g/n/VHT/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11g mode is selected over 802.11n.

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR =0.175 * (39.81mW/39.81mW) = 0.175 W/Kg, so 2.4G OFDM SAR test is not required.

## 9.7.18 2.4G WIFI-ANT2-Level8

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | 12.62 | 13.00 | Yes |
| | | 6 | 2437 | 12.72 | 13.00 | Yes |
| | | 11 | 2462 | **12.97** | 13.00 | Yes |
| | 802.11g | 1 | 2412 | 12.03 | 13.00 | No |
| | | 6 | 2437 | 12.06 | 13.00 | No |
| | | 11 | 2462 | 12.07 | 13.00 | No |
| | 802.11n(HT20) | 1 | 2412 | 12.00 | 13.00 | No |
| | | 6 | 2437 | 12.33 | 13.00 | No |
| | | 11 | 2462 | 12.17 | 13.00 | No |
| | 802.11n(HT40) | 3 | 2422 | 12.00 | 13.00 | No |
| | | 6 | 2432 | 12.36 | 13.00 | No |
| | | 9 | 2452 | 12.28 | 13.00 | No |
| | VHT(20 MHz) | 1 | 2412 | 12.22 | 13.00 | No |
| | | 6 | 2437 | 12.35 | 13.00 | No |
| | | 11 | 2462 | 12.40 | 13.00 | No |
| | VHT(40 MHz) | 3 | 2422 | 12.02 | 13.00 | No |
| | | 6 | 2432 | 12.39 | 13.00 | No |
| | | 9 | 2452 | 12.22 | 13.00 | No |
| | 802.11ax(HE20) | 1 | 2412 | 12.19 | 13.00 | No |
| | | 6 | 2437 | 12.03 | 13.00 | No |
| | | 11 | 2462 | 12.30 | 13.00 | No |
| | 802.11ax(HE40) | 3 | 2422 | 12.06 | 13.00 | No |
| | | 6 | 2432 | 12.31 | 13.00 | No |
| | | 9 | 2452 | 12.39 | 13.00 | No |

Note: When multiple channel bandwidth configurations in a frequency band have the same maximum tune-up output power, the test configuration is determined by applying the following steps sequentially.

1) The largest channel bandwidth configuration is selected between the multiple configurations in a frequency band with the same maximum tune-up output power.

2) When multiple transmission modes (802.11g/n/VHT/ax) have the same maximum tune-up output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11g mode is selected over 802.11n.

3) According KDB 247228, when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is $\leqslant$ 1.2 W/kg, OFDM SAR test is not required.

Adjusted SAR =0.083 * (19.95mW/19.95mW) = 0.083 W/Kg, so 2.4G OFDM SAR test is not required.

## 9.7.19 2.4G WIFI-ANT8&2-Full power

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | 20.27 | 21.50 | Yes |
| | | 6 | 2437 | **20.32** | 21.50 | Yes |
| | | 11 | 2462 | 20.30 | 21.50 | Yes |
| | 802.11g | 1 | 2412 | 21.05 | 22.00 | No |
| | | 6 | 2437 | 20.99 | 22.00 | No |
| | | 11 | 2462 | 20.80 | 22.00 | No |
| | 802.11n(HT20) | 1 | 2412 | 21.09 | 22.00 | No |
| | | 6 | 2437 | 20.94 | 22.00 | No |
| | | 11 | 2462 | 21.02 | 22.00 | No |
| | 802.11n(HT40) | 3 | 2422 | 20.84 | 22.00 | No |
| | | 6 | 2432 | 20.91 | 22.00 | No |
| | | 9 | 2452 | 21.17 | 22.00 | No |
| | VHT(20 MHz) | 1 | 2412 | 20.97 | 22.00 | No |
| | | 6 | 2437 | 20.99 | 22.00 | No |
| | | 11 | 2462 | 20.90 | 22.00 | No |
| | VHT(40 MHz) | 3 | 2422 | 21.11 | 22.00 | No |
| | | 6 | 2432 | 20.90 | 22.00 | No |
| | | 9 | 2452 | 21.09 | 22.00 | No |
| | 802.11ax(HE20) | 1 | 2412 | 20.97 | 22.00 | No |
| | | 6 | 2437 | 21.13 | 22.00 | No |
| | | 11 | 2462 | 21.12 | 22.00 | No |
| | 802.11ax(HE40) | 3 | 2422 | 20.94 | 22.00 | No |
| | | 6 | 2432 | 21.12 | 22.00 | No |
| | | 9 | 2452 | 20.88 | 22.00 | No |

Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative “Max. (main ant) + Max. (aux. ant) ” method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, MIMO SAR test is not required.

## 9.7.20 2.4G WIFI-ANT8&2-Level1

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | 19.71 | 20.00 | Yes |
| | | 6 | 2437 | **19.86** | 20.00 | Yes |
| | | 11 | 2462 | 19.55 | 20.00 | Yes |
| | 802.11g | 1 | 2412 | 18.83 | 20.00 | No |
| | | 6 | 2437 | 19.17 | 20.00 | No |
| | | 11 | 2462 | 19.00 | 20.00 | No |
| | 802.11n(HT20) | 1 | 2412 | 19.06 | 20.00 | No |
| | | 6 | 2437 | 18.88 | 20.00 | No |
| | | 11 | 2462 | 19.07 | 20.00 | No |
| | 802.11n(HT40) | 3 | 2422 | 19.07 | 20.00 | No |
| | | 6 | 2432 | 18.89 | 20.00 | No |
| | | 9 | 2452 | 18.98 | 20.00 | No |
| | VHT(20 MHz) | 1 | 2412 | 18.96 | 20.00 | No |
| | | 6 | 2437 | 19.14 | 20.00 | No |
| | | 11 | 2462 | 19.14 | 20.00 | No |
| | VHT(40 MHz) | 3 | 2422 | 19.13 | 20.00 | No |
| | | 6 | 2432 | 19.14 | 20.00 | No |
| | | 9 | 2452 | 19.16 | 20.00 | No |
| | 802.11ax(HE20) | 1 | 2412 | 19.03 | 20.00 | No |
| | | 6 | 2437 | 19.18 | 20.00 | No |
| | | 11 | 2462 | 18.91 | 20.00 | No |
| | 802.11ax(HE40) | 3 | 2422 | 18.89 | 20.00 | No |
| | | 6 | 2432 | 19.11 | 20.00 | No |
| | | 9 | 2452 | 19.14 | 20.00 | No |
| Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative “Max. (main ant) + Max. (aux. ant) ” method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, MIMO SAR test is not required. | | | | | | |

## 9.7.21 2.4G WIFI-ANT8&2-Level2

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | 19.71 | 20.00 | Yes |
| | | 6 | 2437 | **19.86** | 20.00 | Yes |
| | | 11 | 2462 | 19.55 | 20.00 | Yes |
| | 802.11g | 1 | 2412 | 18.83 | 20.00 | No |
| | | 6 | 2437 | 19.17 | 20.00 | No |
| | | 11 | 2462 | 19.00 | 20.00 | No |
| | 802.11n(HT20) | 1 | 2412 | 19.06 | 20.00 | No |
| | | 6 | 2437 | 18.88 | 20.00 | No |
| | | 11 | 2462 | 19.07 | 20.00 | No |
| | 802.11n(HT40) | 3 | 2422 | 19.07 | 20.00 | No |
| | | 6 | 2432 | 18.89 | 20.00 | No |
| | | 9 | 2452 | 18.98 | 20.00 | No |
| | VHT(20 MHz) | 1 | 2412 | 18.96 | 20.00 | No |
| | | 6 | 2437 | 19.14 | 20.00 | No |
| | | 11 | 2462 | 19.14 | 20.00 | No |
| | VHT(40 MHz) | 3 | 2422 | 19.13 | 20.00 | No |
| | | 6 | 2432 | 19.14 | 20.00 | No |
| | | 9 | 2452 | 19.16 | 20.00 | No |
| | 802.11ax(HE20) | 1 | 2412 | 19.03 | 20.00 | No |
| | | 6 | 2437 | 19.18 | 20.00 | No |
| | | 11 | 2462 | 18.91 | 20.00 | No |
| | 802.11ax(HE40) | 3 | 2422 | 18.89 | 20.00 | No |
| | | 6 | 2432 | 19.11 | 20.00 | No |
| | | 9 | 2452 | 19.14 | 20.00 | No |
| Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative “Max. (main ant) + Max. (aux. ant) ” method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, MIMO SAR test is not required. | | | | | | |

## 9.7.22 2.4G WIFI-ANT8&2-Level3

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | 18.86 | 19.00 | Yes |
| | | 6 | 2437 | 18.31 | 19.00 | Yes |
| | | 11 | 2462 | **18.87** | 19.00 | Yes |
| | 802.11g | 1 | 2412 | 18.37 | 19.00 | No |
| | | 6 | 2437 | 18.29 | 19.00 | No |
| | | 11 | 2462 | 18.22 | 19.00 | No |
| | 802.11n(HT20) | 1 | 2412 | 18.14 | 19.00 | No |
| | | 6 | 2437 | 18.21 | 19.00 | No |
| | | 11 | 2462 | 18.00 | 19.00 | No |
| | 802.11n(HT40) | 3 | 2422 | 18.00 | 19.00 | No |
| | | 6 | 2432 | 18.09 | 19.00 | No |
| | | 9 | 2452 | 18.27 | 19.00 | No |
| | VHT(20 MHz) | 1 | 2412 | 18.26 | 19.00 | No |
| | | 6 | 2437 | 18.23 | 19.00 | No |
| | | 11 | 2462 | 18.27 | 19.00 | No |
| | VHT(40 MHz) | 3 | 2422 | 18.28 | 19.00 | No |
| | | 6 | 2432 | 18.22 | 19.00 | No |
| | | 9 | 2452 | 18.32 | 19.00 | No |
| | 802.11ax(HE20) | 1 | 2412 | 18.38 | 19.00 | No |
| | | 6 | 2437 | 18.40 | 19.00 | No |
| | | 11 | 2462 | 18.31 | 19.00 | No |
| | 802.11ax(HE40) | 3 | 2422 | 18.20 | 19.00 | No |
| | | 6 | 2432 | 18.38 | 19.00 | No |
| | | 9 | 2452 | 18.21 | 19.00 | No |
| Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative “Max. (main ant) + Max. (aux. ant) ” method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, MIMO SAR test is not required. | | | | | | |

## 9.7.23 2.4G WIFI-ANT8&2-Level4

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | 17.21 | 17.50 | Yes |
| | | 6 | 2437 | **17.39** | 17.50 | Yes |
| | | 11 | 2462 | **17.39** | 17.50 | Yes |
| | 802.11g | 1 | 2412 | 16.97 | 17.50 | No |
| | | 6 | 2437 | 17.06 | 17.50 | No |
| | | 11 | 2462 | 16.85 | 17.50 | No |
| | 802.11n(HT20) | 1 | 2412 | 17.04 | 17.50 | No |
| | | 6 | 2437 | 17.10 | 17.50 | No |
| | | 11 | 2462 | 17.15 | 17.50 | No |
| | 802.11n(HT40) | 3 | 2422 | 17.05 | 17.50 | No |
| | | 6 | 2432 | 16.86 | 17.50 | No |
| | | 9 | 2452 | 17.11 | 17.50 | No |
| | VHT(20 MHz) | 1 | 2412 | 16.96 | 17.50 | No |
| | | 6 | 2437 | 16.94 | 17.50 | No |
| | | 11 | 2462 | 17.18 | 17.50 | No |
| | VHT(40 MHz) | 3 | 2422 | 16.87 | 17.50 | No |
| | | 6 | 2432 | 17.07 | 17.50 | No |
| | | 9 | 2452 | 17.18 | 17.50 | No |
| | 802.11ax(HE20) | 1 | 2412 | 16.87 | 17.50 | No |
| | | 6 | 2437 | 17.04 | 17.50 | No |
| | | 11 | 2462 | 17.04 | 17.50 | No |
| | 802.11ax(HE40) | 3 | 2422 | 16.82 | 17.50 | No |
| | | 6 | 2432 | 17.04 | 17.50 | No |
| | | 9 | 2452 | 17.04 | 17.50 | No |
| Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative “Max. (main ant) + Max. (aux. ant) ” method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, MIMO SAR test is not required. | | | | | | |

## 9.7.24 2.4G WIFI-ANT8&2-Level5

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | 20.27 | 21.50 | Yes |
| | | 6 | 2437 | **20.32** | 21.50 | Yes |
| | | 11 | 2462 | 20.30 | 21.50 | Yes |
| | 802.11g | 1 | 2412 | 21.05 | 22.00 | No |
| | | 6 | 2437 | 20.99 | 22.00 | No |
| | | 11 | 2462 | 20.80 | 22.00 | No |
| | 802.11n(HT20) | 1 | 2412 | 21.09 | 22.00 | No |
| | | 6 | 2437 | 20.94 | 22.00 | No |
| | | 11 | 2462 | 21.02 | 22.00 | No |
| | 802.11n(HT40) | 3 | 2422 | 20.84 | 22.00 | No |
| | | 6 | 2432 | 20.91 | 22.00 | No |
| | | 9 | 2452 | 21.17 | 22.00 | No |
| | VHT(20 MHz) | 1 | 2412 | 20.97 | 22.00 | No |
| | | 6 | 2437 | 20.99 | 22.00 | No |
| | | 11 | 2462 | 20.90 | 22.00 | No |
| | VHT(40 MHz) | 3 | 2422 | 21.11 | 22.00 | No |
| | | 6 | 2432 | 20.90 | 22.00 | No |
| | | 9 | 2452 | 21.09 | 22.00 | No |
| | 802.11ax(HE20) | 1 | 2412 | 20.97 | 22.00 | No |
| | | 6 | 2437 | 21.13 | 22.00 | No |
| | | 11 | 2462 | 21.12 | 22.00 | No |
| | 802.11ax(HE40) | 3 | 2422 | 20.94 | 22.00 | No |
| | | 6 | 2432 | 21.12 | 22.00 | No |
| | | 9 | 2452 | 20.88 | 22.00 | No |

Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative “Max. (main ant) + Max. (aux. ant) ” method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, MIMO SAR test is not required.

## 9.7.25 2.4G WIFI-ANT8&2-Level6

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | 20.27 | 21.50 | Yes |
| | | 6 | 2437 | **20.32** | 21.50 | Yes |
| | | 11 | 2462 | 20.30 | 21.50 | Yes |
| | 802.11g | 1 | 2412 | 21.05 | 22.00 | No |
| | | 6 | 2437 | 20.99 | 22.00 | No |
| | | 11 | 2462 | 20.80 | 22.00 | No |
| | 802.11n(HT20) | 1 | 2412 | 21.09 | 22.00 | No |
| | | 6 | 2437 | 20.94 | 22.00 | No |
| | | 11 | 2462 | 21.02 | 22.00 | No |
| | 802.11n(HT40) | 3 | 2422 | 20.84 | 22.00 | No |
| | | 6 | 2432 | 20.91 | 22.00 | No |
| | | 9 | 2452 | 21.17 | 22.00 | No |
| | VHT(20 MHz) | 1 | 2412 | 20.97 | 22.00 | No |
| | | 6 | 2437 | 20.99 | 22.00 | No |
| | | 11 | 2462 | 20.90 | 22.00 | No |
| | VHT(40 MHz) | 3 | 2422 | 21.11 | 22.00 | No |
| | | 6 | 2432 | 20.90 | 22.00 | No |
| | | 9 | 2452 | 21.09 | 22.00 | No |
| | 802.11ax(HE20) | 1 | 2412 | 20.97 | 22.00 | No |
| | | 6 | 2437 | 21.13 | 22.00 | No |
| | | 11 | 2462 | 21.12 | 22.00 | No |
| | 802.11ax(HE40) | 3 | 2422 | 20.94 | 22.00 | No |
| | | 6 | 2432 | 21.12 | 22.00 | No |
| | | 9 | 2452 | 20.88 | 22.00 | No |

Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative “Max. (main ant) + Max. (aux. ant) ” method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, MIMO SAR test is not required.

## 9.7.26 2.4G WIFI-ANT8&2-Level7

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | 18.80 | 19.00 | Yes |
| | | 6 | 2437 | 18.49 | 19.00 | Yes |
| | | 11 | 2462 | **18.93** | 19.00 | Yes |
| | 802.11g | 1 | 2412 | 18.34 | 19.00 | No |
| | | 6 | 2437 | 18.48 | 19.00 | No |
| | | 11 | 2462 | 18.44 | 19.00 | No |
| | 802.11n(HT20) | 1 | 2412 | 18.59 | 19.00 | No |
| | | 6 | 2437 | 18.35 | 19.00 | No |
| | | 11 | 2462 | 18.48 | 19.00 | No |
| | 802.11n(HT40) | 3 | 2422 | 18.57 | 19.00 | No |
| | | 6 | 2432 | 18.55 | 19.00 | No |
| | | 9 | 2452 | 18.42 | 19.00 | No |
| | VHT(20 MHz) | 1 | 2412 | 18.42 | 19.00 | No |
| | | 6 | 2437 | 18.45 | 19.00 | No |
| | | 11 | 2462 | 18.69 | 19.00 | No |
| | VHT(40 MHz) | 3 | 2422 | 18.33 | 19.00 | No |
| | | 6 | 2432 | 18.55 | 19.00 | No |
| | | 9 | 2452 | 18.44 | 19.00 | No |
| | 802.11ax(HE20) | 1 | 2412 | 18.57 | 19.00 | No |
| | | 6 | 2437 | 18.46 | 19.00 | No |
| | | 11 | 2462 | 18.64 | 19.00 | No |
| | 802.11ax(HE40) | 3 | 2422 | 18.32 | 19.00 | No |
| | | 6 | 2432 | 18.35 | 19.00 | No |
| | | 9 | 2452 | 18.38 | 19.00 | No |
| Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative “Max. (main ant) + Max. (aux. ant) ” method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, MIMO SAR test is not required. | | | | | | |

## 9.7.27 2.4G WIFI-ANT8&2-Level8

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | 15.52 | 16.00 | Yes |
| | | 6 | 2437 | 15.45 | 16.00 | Yes |
| | | 11 | 2462 | **15.61** | 16.00 | Yes |
| | 802.11g | 1 | 2412 | 15.46 | 16.00 | No |
| | | 6 | 2437 | 15.32 | 16.00 | No |
| | | 11 | 2462 | 15.41 | 16.00 | No |
| | 802.11n(HT20) | 1 | 2412 | 15.48 | 16.00 | No |
| | | 6 | 2437 | 15.60 | 16.00 | No |
| | | 11 | 2462 | 15.45 | 16.00 | No |
| | 802.11n(HT40) | 3 | 2422 | 15.64 | 16.00 | No |
| | | 6 | 2432 | 15.49 | 16.00 | No |
| | | 9 | 2452 | 15.59 | 16.00 | No |
| | VHT(20 MHz) | 1 | 2412 | 15.42 | 16.00 | No |
| | | 6 | 2437 | 15.32 | 16.00 | No |
| | | 11 | 2462 | 15.70 | 16.00 | No |
| | VHT(40 MHz) | 3 | 2422 | 15.53 | 16.00 | No |
| | | 6 | 2432 | 15.39 | 16.00 | No |
| | | 9 | 2452 | 15.39 | 16.00 | No |
| | 802.11ax(HE20) | 1 | 2412 | 15.51 | 16.00 | No |
| | | 6 | 2437 | 15.45 | 16.00 | No |
| | | 11 | 2462 | 15.48 | 16.00 | No |
| | 802.11ax(HE40) | 3 | 2422 | 15.69 | 16.00 | No |
| | | 6 | 2432 | 15.61 | 16.00 | No |
| | | 9 | 2452 | 15.61 | 16.00 | No |
| Note: For WiFi SAR testing was performed on single antenna RF power in SISO mode that is larger to the single antenna RF power in MIMO mode, and for RF exposure assessment of MIMO mode simultaneous transmission used more conservative “Max. (main ant) + Max. (aux. ant) ” method to determine SAR compliance. When the sum of 1-g SISO transmission SAR measurement is <1.6 W/kg, MIMO SAR test is not required. | | | | | | |

## 9.7.28 5G WIFI-ANT2-Full power

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 5.2 (5.15~5.25) | 802.11a | 36 | 5180 | 13.98 | 15.00 | No |
| | | 40 | 5200 | 17.62 | 19.00 | No |
| | | 48 | 5240 | 17.65 | 19.00 | No |
| | 802.11n(HT20) | 36 | 5180 | 13.88 | 15.00 | No |
| | | 44 | 5220 | 17.55 | 19.00 | No |
| | | 48 | 5240 | 17.51 | 19.00 | No |
| | 802.11n(HT40) | 38 | 5190 | 9.92 | 11.00 | No |
| | | 46 | 5230 | 17.57 | 19.00 | No |
| | 802.11ac(VHT20) | 36 | 5180 | 11.89 | 13.00 | No |
| | | 40 | 5200 | 17.52 | 19.00 | No |
| | | 48 | 5240 | 17.51 | 19.00 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 9.91 | 11.00 | No |
| | | 46 | 5230 | 17.66 | 19.00 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 9.30 | 11.00 | No |
| | 802.11ax(HE20) | 36 | 5180 | 15.16 | 16.00 | Yes |
| | | 40 | 5200 | **17.79** | 19.00 | Yes |
| | | 48 | 5240 | 17.74 | 19.00 | Yes |
| | 802.11ax(HE40) | 38 | 5190 | 14.16 | 15.00 | No |
| | | 46 | 5230 | 17.91 | 19.00 | No |
| | 802.11ax(HE80) | 42 | 5210 | 11.55 | 13.00 | No |
| 5.3 (5.25~5.35) | 802.11a | 52 | 5260 | **17.61** | 19.00 | Yes |
| | | 60 | 5300 | 17.58 | 19.00 | Yes |
| | | 64 | 5320 | 10.67 | 12.00 | Yes |
| | 802.11n(HT20) | 52 | 5260 | 17.55 | 19.00 | No |
| | | 60 | 5300 | 17.52 | 19.00 | No |
| | | 64 | 5320 | 10.54 | 12.00 | No |
| | 802.11n(HT40) | 54 | 5270 | 17.47 | 19.00 | No |
| | | 62 | 5310 | 8.63 | 10.00 | No |
| | 802.11ac(VHT20) | 52 | 5260 | 17.54 | 19.00 | No |
| | | 60 | 5300 | 17.51 | 19.00 | No |
| | | 64 | 5320 | 10.54 | 12.00 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 17.69 | 19.00 | No |
| | | 62 | 5310 | 8.62 | 10.00 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 8.27 | 10.00 | No |
| | 802.11ax(HE20) | 52 | 5260 | 17.69 | 19.00 | No |
| | | 60 | 5300 | 17.64 | 19.00 | No |
| | | 64 | 5320 | 10.67 | 12.00 | No |
| | 802.11ax(HE40) | 54 | 5270 | 17.79 | 19.00 | No |
| | | 62 | 5310 | 9.74 | 11.00 | No |
| | 802.11ax(HE80) | 58 | 5290 | 9.93 | 11.50 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5.6 (5.47~5.725) | 802.11a | 100 | 5500 | 10.32 | 12.00 | Yes |
| | | 116 | 5580 | **17.44** | 19.00 | Yes |
| | | 140 | 5700 | 10.51 | 12.00 | Yes |
| | 802.11n(HT20) | 100 | 5500 | 10.20 | 12.00 | No |
| | | 116 | 5580 | 17.32 | 19.00 | No |
| | | 140 | 5700 | 10.39 | 12.00 | No |
| | 802.11n(HT40) | 102 | 5510 | 6.58 | 8.00 | No |
| | | 118 | 5590 | 17.66 | 19.00 | No |
| | | 134 | 5670 | 6.48 | 8.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 10.20 | 12.00 | No |
| | | 116 | 5580 | 17.35 | 19.00 | No |
| | | 140 | 5700 | 10.32 | 12.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 6.63 | 8.00 | No |
| | | 118 | 5590 | 17.66 | 19.00 | No |
| | | 134 | 5670 | 6.48 | 8.00 | No |
| | 802.11ac(VHT80) | 106 | 5530 | 8.02 | 10.00 | No |
| | | 122 | 5610 | 17.08 | 19.00 | No |
| | 802.11ax(HE20) | 100 | 5500 | 10.30 | 12.00 | No |
| | | 116 | 5580 | 17.50 | 19.00 | No |
| | | 140 | 5700 | 10.52 | 12.00 | No |
| | 802.11ax(HE40) | 102 | 5510 | 6.82 | 8.00 | No |
| | | 118 | 5590 | 17.87 | 19.00 | No |
| | | 134 | 5670 | 6.67 | 8.00 | No |
| | 802.11ax(HE80) | 106 | 5530 | 8.13 | 10.00 | No |
| | | 122 | 5610 | 17.33 | 19.00 | No |
| 5.8 (5.725~5.85) | 802.11a | 149 | 5745 | 17.52 | 19.00 | No |
| | | 157 | 5785 | 17.43 | 19.00 | No |
| | | 165 | 5825 | 17.52 | 19.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 17.40 | 19.00 | No |
| | | 157 | 5785 | 17.31 | 19.00 | No |
| | | 165 | 5825 | 17.38 | 19.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 17.49 | 19.00 | No |
| | | 159 | 5795 | 17.49 | 19.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 17.42 | 19.00 | No |
| | | 157 | 5785 | 17.31 | 19.00 | No |
| | | 165 | 5825 | 17.36 | 19.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 17.50 | 19.00 | No |
| | | 159 | 5795 | 17.46 | 19.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | **17.04** | 19.00 | Yes |
| | 802.11ax(HE20) | 149 | 5745 | 17.68 | 19.00 | No |
| | | 157 | 5785 | 17.67 | 19.00 | No |
| | | 165 | 5825 | 17.71 | 19.00 | No |
| | 802.11ax(HE40) | 151 | 5755 | 17.76 | 19.00 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 159 | 5795 | 17.70 | 19.00 | No |
| | 802.11ax(HE80) | 155 | 5775 | 17.35 | 19.00 | No |
| Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. | | | | | | |

## 9.7.29 5G WIFI-ANT2-Level1

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 5.2 (5.15~5.25) | 802.11a | 36 | 5180 | 13.98 | 15.00 | No |
| | | 40 | 5200 | 17.62 | 19.00 | No |
| | | 48 | 5240 | 17.65 | 19.00 | No |
| | 802.11n(HT20) | 36 | 5180 | 13.88 | 15.00 | No |
| | | 44 | 5220 | 17.55 | 19.00 | No |
| | | 48 | 5240 | 17.51 | 19.00 | No |
| | 802.11n(HT40) | 38 | 5190 | 9.92 | 11.00 | No |
| | | 46 | 5230 | 17.57 | 19.00 | No |
| | 802.11ac(VHT20) | 36 | 5180 | 11.89 | 13.00 | No |
| | | 40 | 5200 | 17.52 | 19.00 | No |
| | | 48 | 5240 | 17.51 | 19.00 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 9.91 | 11.00 | No |
| | | 46 | 5230 | 17.66 | 19.00 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 9.30 | 11.00 | No |
| | 802.11ax(HE20) | 36 | 5180 | 15.16 | 16.00 | No |
| | | 40 | 5200 | 17.79 | 19.00 | No |
| | | 48 | 5240 | 17.74 | 19.00 | No |
| | 802.11ax(HE40) | 38 | 5190 | 14.16 | 15.00 | No |
| | | 46 | 5230 | 17.91 | 19.00 | No |
| | 802.11ax(HE80) | 42 | 5210 | 11.55 | 13.00 | No |
| 5.3 (5.25~5.35) | 802.11a | 52 | 5260 | 17.61 | 19.00 | No |
| | | 60 | 5300 | 17.58 | 19.00 | No |
| | | 64 | 5320 | 10.67 | 12.00 | No |
| | 802.11n(HT20) | 52 | 5260 | 17.55 | 19.00 | No |
| | | 60 | 5300 | 17.52 | 19.00 | No |
| | | 64 | 5320 | 10.54 | 12.00 | No |
| | 802.11n(HT40) | 54 | 5270 | **17.47** | 19.00 | Yes |
| | | 62 | 5310 | 8.63 | 10.00 | Yes |
| | 802.11ac(VHT20) | 52 | 5260 | 17.54 | 19.00 | No |
| | | 60 | 5300 | 17.51 | 19.00 | No |
| | | 64 | 5320 | 10.54 | 12.00 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 17.69 | 19.00 | No |
| | | 62 | 5310 | 8.62 | 10.00 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 8.27 | 10.00 | No |
| | 802.11ax(HE20) | 52 | 5260 | 17.69 | 19.00 | No |
| | | 60 | 5300 | 17.64 | 19.00 | No |
| | | 64 | 5320 | 10.67 | 12.00 | No |
| | 802.11ax(HE40) | 54 | 5270 | 17.79 | 19.00 | No |
| | | 62 | 5310 | 9.74 | 11.00 | No |
| | 802.11ax(HE80) | 58 | 5290 | 9.93 | 11.50 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5.6 (5.47~5.725) | 802.11a | 100 | 5500 | 10.32 | 12.00 | No |
| | | 116 | 5580 | 17.44 | 19.00 | No |
| | | 140 | 5700 | 10.51 | 12.00 | No |
| | 802.11n(HT20) | 100 | 5500 | 10.20 | 12.00 | No |
| | | 116 | 5580 | 17.32 | 19.00 | No |
| | | 140 | 5700 | 10.39 | 12.00 | No |
| | 802.11n(HT40) | 102 | 5510 | 6.58 | 8.00 | No |
| | | 118 | 5590 | 17.66 | 19.00 | No |
| | | 134 | 5670 | 6.48 | 8.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 10.20 | 12.00 | No |
| | | 116 | 5580 | 17.35 | 19.00 | No |
| | | 140 | 5700 | 10.32 | 12.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 6.63 | 8.00 | No |
| | | 118 | 5590 | 17.66 | 19.00 | No |
| | | 134 | 5670 | 6.48 | 8.00 | No |
| | 802.11ac(VHT80) | 106 | 5530 | 8.02 | 10.00 | Yes |
| | | 122 | 5610 | **17.08** | 19.00 | Yes |
| | 802.11ax(HE20) | 100 | 5500 | 10.30 | 12.00 | No |
| | | 116 | 5580 | 17.50 | 19.00 | No |
| | | 140 | 5700 | 10.52 | 12.00 | No |
| | 802.11ax(HE40) | 102 | 5510 | 6.82 | 8.00 | No |
| | | 118 | 5590 | 17.87 | 19.00 | No |
| | | 134 | 5670 | 6.67 | 8.00 | No |
| | 802.11ax(HE80) | 106 | 5530 | 8.13 | 10.00 | No |
| | | 122 | 5610 | 17.33 | 19.00 | No |
| 5.8 (5.725~5.85) | 802.11a | 149 | 5745 | 17.52 | 19.00 | No |
| | | 157 | 5785 | 17.43 | 19.00 | No |
| | | 165 | 5825 | 17.52 | 19.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 17.40 | 19.00 | No |
| | | 157 | 5785 | 17.31 | 19.00 | No |
| | | 165 | 5825 | 17.38 | 19.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 17.49 | 19.00 | No |
| | | 159 | 5795 | 17.49 | 19.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 17.42 | 19.00 | No |
| | | 157 | 5785 | 17.31 | 19.00 | No |
| | | 165 | 5825 | 17.36 | 19.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 17.50 | 19.00 | No |
| | | 159 | 5795 | 17.46 | 19.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | **17.04** | 19.00 | Yes |
| | 802.11ax(HE20) | 149 | 5745 | 17.68 | 19.00 | No |
| | | 157 | 5785 | 17.67 | 19.00 | No |
| | | 165 | 5825 | 17.71 | 19.00 | No |
| | 802.11ax(HE40) | 151 | 5755 | 17.76 | 19.00 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 159 | 5795 | 17.70 | 19.00 | No |
| | 802.11ax(HE80) | 155 | 5775 | 17.35 | 19.00 | No |
| Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. | | | | | | |

## 9.7.30 5G WIFI-ANT2-Level2

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 5.2 (5.15~5.25) | 802.11a | 36 | 5180 | 13.98 | 15.00 | No |
| | | 40 | 5200 | 17.62 | 19.00 | No |
| | | 48 | 5240 | 17.65 | 19.00 | No |
| | 802.11n(HT20) | 36 | 5180 | 13.88 | 15.00 | No |
| | | 44 | 5220 | 17.55 | 19.00 | No |
| | | 48 | 5240 | 17.51 | 19.00 | No |
| | 802.11n(HT40) | 38 | 5190 | 9.92 | 11.00 | No |
| | | 46 | 5230 | 17.57 | 19.00 | No |
| | 802.11ac(VHT20) | 36 | 5180 | 11.89 | 13.00 | No |
| | | 40 | 5200 | 17.52 | 19.00 | No |
| | | 48 | 5240 | 17.51 | 19.00 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 9.91 | 11.00 | No |
| | | 46 | 5230 | 17.66 | 19.00 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 9.30 | 11.00 | No |
| | 802.11ax(HE20) | 36 | 5180 | 15.16 | 16.00 | No |
| | | 40 | 5200 | 17.79 | 19.00 | No |
| | | 48 | 5240 | 17.74 | 19.00 | No |
| | 802.11ax(HE40) | 38 | 5190 | 14.16 | 15.00 | No |
| | | 46 | 5230 | 17.91 | 19.00 | No |
| | 802.11ax(HE80) | 42 | 5210 | 11.55 | 13.00 | No |
| 5.3 (5.25~5.35) | 802.11a | 52 | 5260 | 17.61 | 19.00 | No |
| | | 60 | 5300 | 17.58 | 19.00 | No |
| | | 64 | 5320 | 10.67 | 12.00 | No |
| | 802.11n(HT20) | 52 | 5260 | 17.55 | 19.00 | No |
| | | 60 | 5300 | 17.52 | 19.00 | No |
| | | 64 | 5320 | 10.54 | 12.00 | No |
| | 802.11n(HT40) | 54 | 5270 | **17.47** | 19.00 | Yes |
| | | 62 | 5310 | 8.63 | 10.00 | Yes |
| | 802.11ac(VHT20) | 52 | 5260 | 17.54 | 19.00 | No |
| | | 60 | 5300 | 17.51 | 19.00 | No |
| | | 64 | 5320 | 10.54 | 12.00 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 17.69 | 19.00 | No |
| | | 62 | 5310 | 8.62 | 10.00 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 8.27 | 10.00 | No |
| | 802.11ax(HE20) | 52 | 5260 | 17.69 | 19.00 | No |
| | | 60 | 5300 | 17.64 | 19.00 | No |
| | | 64 | 5320 | 10.67 | 12.00 | No |
| | 802.11ax(HE40) | 54 | 5270 | 17.79 | 19.00 | No |
| | | 62 | 5310 | 9.74 | 11.00 | No |
| | 802.11ax(HE80) | 58 | 5290 | 9.93 | 11.50 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5.6 (5.47~5.725) | 802.11a | 100 | 5500 | 10.32 | 12.00 | No |
| | | 116 | 5580 | 17.44 | 19.00 | No |
| | | 140 | 5700 | 10.51 | 12.00 | No |
| | 802.11n(HT20) | 100 | 5500 | 10.20 | 12.00 | No |
| | | 116 | 5580 | 17.32 | 19.00 | No |
| | | 140 | 5700 | 10.39 | 12.00 | No |
| | 802.11n(HT40) | 102 | 5510 | 6.58 | 8.00 | No |
| | | 118 | 5590 | 17.66 | 19.00 | No |
| | | 134 | 5670 | 6.48 | 8.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 10.20 | 12.00 | No |
| | | 116 | 5580 | 17.35 | 19.00 | No |
| | | 140 | 5700 | 10.32 | 12.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 6.63 | 8.00 | No |
| | | 118 | 5590 | 17.66 | 19.00 | No |
| | | 134 | 5670 | 6.48 | 8.00 | No |
| | 802.11ac(VHT80) | 106 | 5530 | 8.02 | 10.00 | Yes |
| | | 122 | 5610 | **17.08** | 19.00 | Yes |
| | 802.11ax(HE20) | 100 | 5500 | 10.30 | 12.00 | No |
| | | 116 | 5580 | 17.50 | 19.00 | No |
| | | 140 | 5700 | 10.52 | 12.00 | No |
| | 802.11ax(HE40) | 102 | 5510 | 6.82 | 8.00 | No |
| | | 118 | 5590 | 17.87 | 19.00 | No |
| | | 134 | 5670 | 6.67 | 8.00 | No |
| | 802.11ax(HE80) | 106 | 5530 | 8.13 | 10.00 | No |
| | | 122 | 5610 | 17.33 | 19.00 | No |
| 5.8 (5.725~5.85) | 802.11a | 149 | 5745 | 17.52 | 19.00 | No |
| | | 157 | 5785 | 17.43 | 19.00 | No |
| | | 165 | 5825 | 17.52 | 19.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 17.40 | 19.00 | No |
| | | 157 | 5785 | 17.31 | 19.00 | No |
| | | 165 | 5825 | 17.38 | 19.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 17.49 | 19.00 | No |
| | | 159 | 5795 | 17.49 | 19.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 17.42 | 19.00 | No |
| | | 157 | 5785 | 17.31 | 19.00 | No |
| | | 165 | 5825 | 17.36 | 19.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 17.50 | 19.00 | No |
| | | 159 | 5795 | 17.46 | 19.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | **17.04** | 19.00 | Yes |
| | 802.11ax(HE20) | 149 | 5745 | 17.68 | 19.00 | No |
| | | 157 | 5785 | 17.67 | 19.00 | No |
| | | 165 | 5825 | 17.71 | 19.00 | No |
| | 802.11ax(HE40) | 151 | 5755 | 17.76 | 19.00 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 159 | 5795 | 17.70 | 19.00 | No |
| | 802.11ax(HE80) | 155 | 5775 | 17.35 | 19.00 | No |
| Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. | | | | | | |

## 9.7.31 5G WIFI-ANT2-Level3

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 5.2 (5.15~5.25) | 802.11a | 36 | 5180 | 13.98 | 15.00 | No |
| | | 40 | 5200 | 17.62 | 19.00 | No |
| | | 48 | 5240 | 17.65 | 19.00 | No |
| | 802.11n(HT20) | 36 | 5180 | 13.88 | 15.00 | No |
| | | 44 | 5220 | 17.55 | 19.00 | No |
| | | 48 | 5240 | 17.51 | 19.00 | No |
| | 802.11n(HT40) | 38 | 5190 | 9.92 | 11.00 | No |
| | | 46 | 5230 | 17.57 | 19.00 | No |
| | 802.11ac(VHT20) | 36 | 5180 | 11.89 | 13.00 | No |
| | | 40 | 5200 | 17.52 | 19.00 | No |
| | | 48 | 5240 | 17.51 | 19.00 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 9.91 | 11.00 | No |
| | | 46 | 5230 | 17.66 | 19.00 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 9.30 | 11.00 | No |
| | 802.11ax(HE20) | 36 | 5180 | 15.16 | 16.00 | No |
| | | 40 | 5200 | 17.79 | 19.00 | No |
| | | 48 | 5240 | 17.74 | 19.00 | No |
| | 802.11ax(HE40) | 38 | 5190 | 14.16 | 15.00 | No |
| | | 46 | 5230 | 17.91 | 19.00 | No |
| | 802.11ax(HE80) | 42 | 5210 | 11.55 | 13.00 | No |
| 5.3 (5.25~5.35) | 802.11a | 52 | 5260 | 17.61 | 19.00 | No |
| | | 60 | 5300 | 17.58 | 19.00 | No |
| | | 64 | 5320 | 10.67 | 12.00 | No |
| | 802.11n(HT20) | 52 | 5260 | 17.55 | 19.00 | No |
| | | 60 | 5300 | 17.52 | 19.00 | No |
| | | 64 | 5320 | 10.54 | 12.00 | No |
| | 802.11n(HT40) | 54 | 5270 | **17.47** | 19.00 | Yes |
| | | 62 | 5310 | 8.63 | 10.00 | Yes |
| | 802.11ac(VHT20) | 52 | 5260 | 17.54 | 19.00 | No |
| | | 60 | 5300 | 17.51 | 19.00 | No |
| | | 64 | 5320 | 10.54 | 12.00 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 17.69 | 19.00 | No |
| | | 62 | 5310 | 8.62 | 10.00 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 8.27 | 10.00 | No |
| | 802.11ax(HE20) | 52 | 5260 | 17.69 | 19.00 | No |
| | | 60 | 5300 | 17.64 | 19.00 | No |
| | | 64 | 5320 | 10.67 | 12.00 | No |
| | 802.11ax(HE40) | 54 | 5270 | 17.79 | 19.00 | No |
| | | 62 | 5310 | 9.74 | 11.00 | No |
| | 802.11ax(HE80) | 58 | 5290 | 9.93 | 11.50 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5.6 (5.47~5.725) | 802.11a | 100 | 5500 | 10.32 | 12.00 | No |
| | | 116 | 5580 | 17.18 | 18.00 | No |
| | | 140 | 5700 | 10.51 | 12.00 | No |
| | 802.11n(HT20) | 100 | 5500 | 10.20 | 12.00 | No |
| | | 116 | 5580 | 17.02 | 18.00 | No |
| | | 140 | 5700 | 10.39 | 12.00 | No |
| | 802.11n(HT40) | 102 | 5510 | 6.58 | 8.00 | No |
| | | 118 | 5590 | 17.02 | 18.00 | No |
| | | 134 | 5670 | 6.48 | 8.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 10.20 | 12.00 | No |
| | | 116 | 5580 | 17.37 | 18.00 | No |
| | | 140 | 5700 | 10.32 | 12.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 6.63 | 8.00 | No |
| | | 118 | 5590 | 17.17 | 18.00 | No |
| | | 134 | 5670 | 6.48 | 8.00 | No |
| | 802.11ac(VHT80) | 106 | 5530 | 8.02 | 10.00 | Yes |
| | | 122 | 5610 | **17.39** | 18.00 | Yes |
| | 802.11ax(HE20) | 100 | 5500 | 10.30 | 12.00 | No |
| | | 116 | 5580 | 17.31 | 18.00 | No |
| | | 140 | 5700 | 10.52 | 12.00 | No |
| | 802.11ax(HE40) | 102 | 5510 | 6.82 | 8.00 | No |
| | | 118 | 5590 | 17.35 | 18.00 | No |
| | | 134 | 5670 | 6.67 | 8.00 | No |
| | 802.11ax(HE80) | 106 | 5530 | 8.13 | 10.00 | No |
| | | 122 | 5610 | 17.08 | 18.00 | No |
| 5.8 (5.725~5.85) | 802.11a | 149 | 5745 | 17.61 | 18.00 | No |
| | | 157 | 5785 | 17.42 | 18.00 | No |
| | | 165 | 5825 | 17.54 | 18.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 17.62 | 18.00 | No |
| | | 157 | 5785 | 17.59 | 18.00 | No |
| | | 165 | 5825 | 17.37 | 18.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 17.62 | 18.00 | No |
| | | 159 | 5795 | 17.70 | 18.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 17.40 | 18.00 | No |
| | | 157 | 5785 | 17.67 | 18.00 | No |
| | | 165 | 5825 | 17.43 | 18.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 17.60 | 18.00 | No |
| | | 159 | 5795 | 17.66 | 18.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | **17.30** | 18.00 | Yes |
| | 802.11ax(HE20) | 149 | 5745 | 17.50 | 18.00 | No |
| | | 157 | 5785 | 17.45 | 18.00 | No |
| | | 165 | 5825 | 17.58 | 18.00 | No |
| | 802.11ax(HE40) | 151 | 5755 | 17.33 | 18.00 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 159 | 5795 | 17.30 | 18.00 | No |
| | 802.11ax(HE80) | 155 | 5775 | 17.44 | 18.00 | No |
| Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. | | | | | | |

## 9.7.32 5G WIFI-ANT2-Level4

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 5.2 (5.15~5.25) | 802.11a | 36 | 5180 | 14.27 | 14.50 | No |
| | | 40 | 5200 | 14.30 | 14.50 | No |
| | | 48 | 5240 | 14.32 | 14.50 | No |
| | 802.11n(HT20) | 36 | 5180 | 13.62 | 14.50 | No |
| | | 44 | 5220 | 13.86 | 14.50 | No |
| | | 48 | 5240 | 13.75 | 14.50 | No |
| | 802.11n(HT40) | 38 | 5190 | 10.80 | 11.00 | Yes |
| | | 46 | 5230 | **13.57** | 14.50 | Yes |
| | 802.11ac(VHT20) | 36 | 5180 | 12.64 | 13.00 | No |
| | | 40 | 5200 | 13.66 | 14.50 | No |
| | | 48 | 5240 | 13.71 | 14.50 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 10.68 | 11.00 | No |
| | | 46 | 5230 | 13.50 | 14.50 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 10.63 | 11.00 | No |
| | 802.11ax(HE20) | 36 | 5180 | 14.21 | 14.50 | No |
| | | 40 | 5200 | 14.19 | 14.50 | No |
| | | 48 | 5240 | 14.18 | 14.50 | No |
| | 802.11ax(HE40) | 38 | 5190 | 13.60 | 14.50 | No |
| | | 46 | 5230 | 13.77 | 14.50 | No |
| | 802.11ax(HE80) | 42 | 5210 | 12.58 | 13.00 | No |
| 5.3 (5.25~5.35) | 802.11a | 52 | 5260 | 13.66 | 14.50 | No |
| | | 60 | 5300 | 13.88 | 14.50 | No |
| | | 64 | 5320 | 10.67 | 12.00 | No |
| | 802.11n(HT20) | 52 | 5260 | 13.79 | 14.50 | No |
| | | 60 | 5300 | 13.70 | 14.50 | No |
| | | 64 | 5320 | 10.54 | 12.00 | No |
| | 802.11n(HT40) | 54 | 5270 | **13.56** | 14.50 | Yes |
| | | 62 | 5310 | 8.63 | 10.00 | Yes |
| | 802.11ac(VHT20) | 52 | 5260 | 13.64 | 14.50 | No |
| | | 60 | 5300 | 13.54 | 14.50 | No |
| | | 64 | 5320 | 10.54 | 12.00 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 13.64 | 14.50 | No |
| | | 62 | 5310 | 8.62 | 10.00 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 8.27 | 10.00 | No |
| | 802.11ax(HE20) | 52 | 5260 | 13.65 | 14.50 | No |
| | | 60 | 5300 | 13.80 | 14.50 | No |
| | | 64 | 5320 | 10.67 | 12.00 | No |
| | 802.11ax(HE40) | 54 | 5270 | 13.73 | 14.50 | No |
| | | 62 | 5310 | 9.74 | 11.00 | No |
| | 802.11ax(HE80) | 58 | 5290 | 9.93 | 11.50 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5.6 (5.47~5.725) | 802.11a | 100 | 5500 | 10.32 | 12.00 | No |
| | | 116 | 5580 | 12.58 | 13.50 | No |
| | | 140 | 5700 | 10.51 | 12.00 | No |
| | 802.11n(HT20) | 100 | 5500 | 10.20 | 12.00 | No |
| | | 116 | 5580 | 12.55 | 13.50 | No |
| | | 140 | 5700 | 10.39 | 12.00 | No |
| | 802.11n(HT40) | 102 | 5510 | 6.58 | 8.00 | No |
| | | 118 | 5590 | 12.89 | 13.50 | No |
| | | 134 | 5670 | 6.48 | 8.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 10.20 | 12.00 | No |
| | | 116 | 5580 | 12.83 | 13.50 | No |
| | | 140 | 5700 | 10.32 | 12.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 6.63 | 8.00 | No |
| | | 118 | 5590 | 12.52 | 13.50 | No |
| | | 134 | 5670 | 6.48 | 8.00 | No |
| | 802.11ac(VHT80) | 106 | 5530 | 8.02 | 10.00 | Yes |
| | | 122 | 5610 | **12.83** | 13.50 | Yes |
| | 802.11ax(HE20) | 100 | 5500 | 10.30 | 12.00 | No |
| | | 116 | 5580 | 12.81 | 13.50 | No |
| | | 140 | 5700 | 10.52 | 12.00 | No |
| | 802.11ax(HE40) | 102 | 5510 | 6.82 | 8.00 | No |
| | | 118 | 5590 | 12.77 | 13.50 | No |
| | | 134 | 5670 | 6.67 | 8.00 | No |
| | 802.11ax(HE80) | 106 | 5530 | 8.13 | 10.00 | No |
| | | 122 | 5610 | 12.77 | 13.50 | No |
| 5.8 (5.725~5.85) | 802.11a | 149 | 5745 | 13.34 | 14.00 | No |
| | | 157 | 5785 | 13.13 | 14.00 | No |
| | | 165 | 5825 | 13.26 | 14.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 13.05 | 14.00 | No |
| | | 157 | 5785 | 13.38 | 14.00 | No |
| | | 165 | 5825 | 13.23 | 14.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 13.07 | 14.00 | No |
| | | 159 | 5795 | 13.12 | 14.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 13.39 | 14.00 | No |
| | | 157 | 5785 | 13.22 | 14.00 | No |
| | | 165 | 5825 | 13.00 | 14.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 13.28 | 14.00 | No |
| | | 159 | 5795 | 13.10 | 14.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | **13.82** | 14.00 | Yes |
| | 802.11ax(HE20) | 149 | 5745 | 13.11 | 14.00 | No |
| | | 157 | 5785 | 13.30 | 14.00 | No |
| | | 165 | 5825 | 13.30 | 14.00 | No |
| | 802.11ax(HE40) | 151 | 5755 | 13.36 | 14.00 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 159 | 5795 | 13.34 | 14.00 | No |
| | 802.11ax(HE80) | 155 | 5775 | 13.02 | 14.00 | No |
| Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. | | | | | | |

## 9.7.33 5G WIFI-ANT2-Level5

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 5.2 (5.15~5.25) | 802.11a | 36 | 5180 | 13.98 | 15.00 | No |
| | | 40 | 5200 | 17.62 | 19.00 | No |
| | | 48 | 5240 | 17.65 | 19.00 | No |
| | 802.11n(HT20) | 36 | 5180 | 13.88 | 15.00 | No |
| | | 44 | 5220 | 17.55 | 19.00 | No |
| | | 48 | 5240 | 17.51 | 19.00 | No |
| | 802.11n(HT40) | 38 | 5190 | 9.92 | 11.00 | Yes |
| | | 46 | 5230 | **17.57** | 19.00 | Yes |
| | 802.11ac(VHT20) | 36 | 5180 | 11.89 | 13.00 | No |
| | | 40 | 5200 | 17.52 | 19.00 | No |
| | | 48 | 5240 | 17.51 | 19.00 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 9.91 | 11.00 | No |
| | | 46 | 5230 | 17.66 | 19.00 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 9.30 | 11.00 | No |
| | 802.11ax(HE20) | 36 | 5180 | 15.16 | 16.00 | No |
| | | 40 | 5200 | 17.79 | 19.00 | No |
| | | 48 | 5240 | 17.74 | 19.00 | No |
| | 802.11ax(HE40) | 38 | 5190 | 14.16 | 15.00 | No |
| | | 46 | 5230 | 17.91 | 19.00 | No |
| | 802.11ax(HE80) | 42 | 5210 | 11.55 | 13.00 | No |
| 5.3 (5.25~5.35) | 802.11a | 52 | 5260 | 17.61 | 19.00 | No |
| | | 60 | 5300 | 17.58 | 19.00 | No |
| | | 64 | 5320 | 10.67 | 12.00 | No |
| | 802.11n(HT20) | 52 | 5260 | 17.55 | 19.00 | No |
| | | 60 | 5300 | 17.52 | 19.00 | No |
| | | 64 | 5320 | 10.54 | 12.00 | No |
| | 802.11n(HT40) | 54 | 5270 | **17.47** | 19.00 | Yes |
| | | 62 | 5310 | 8.63 | 10.00 | Yes |
| | 802.11ac(VHT20) | 52 | 5260 | 17.54 | 19.00 | No |
| | | 60 | 5300 | 17.51 | 19.00 | No |
| | | 64 | 5320 | 10.54 | 12.00 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 17.69 | 19.00 | No |
| | | 62 | 5310 | 8.62 | 10.00 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 8.27 | 10.00 | No |
| | 802.11ax(HE20) | 52 | 5260 | 17.69 | 19.00 | No |
| | | 60 | 5300 | 17.64 | 19.00 | No |
| | | 64 | 5320 | 10.67 | 12.00 | No |
| | 802.11ax(HE40) | 54 | 5270 | 17.79 | 19.00 | No |
| | | 62 | 5310 | 9.74 | 11.00 | No |
| | 802.11ax(HE80) | 58 | 5290 | 9.93 | 11.50 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5.6 (5.47~5.725) | 802.11a | 100 | 5500 | 10.32 | 12.00 | No |
| | | 116 | 5580 | 17.44 | 19.00 | No |
| | | 140 | 5700 | 10.51 | 12.00 | No |
| | 802.11n(HT20) | 100 | 5500 | 10.20 | 12.00 | No |
| | | 116 | 5580 | 17.32 | 19.00 | No |
| | | 140 | 5700 | 10.39 | 12.00 | No |
| | 802.11n(HT40) | 102 | 5510 | 6.58 | 8.00 | No |
| | | 118 | 5590 | 17.66 | 19.00 | No |
| | | 134 | 5670 | 6.48 | 8.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 10.20 | 12.00 | No |
| | | 116 | 5580 | 17.35 | 19.00 | No |
| | | 140 | 5700 | 10.32 | 12.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 6.63 | 8.00 | No |
| | | 118 | 5590 | 17.66 | 19.00 | No |
| | | 134 | 5670 | 6.48 | 8.00 | No |
| | 802.11ac(VHT80) | 106 | 5530 | 8.02 | 10.00 | Yes |
| | | 122 | 5610 | **17.08** | 19.00 | Yes |
| | 802.11ax(HE20) | 100 | 5500 | 10.30 | 12.00 | No |
| | | 116 | 5580 | 17.50 | 19.00 | No |
| | | 140 | 5700 | 10.52 | 12.00 | No |
| | 802.11ax(HE40) | 102 | 5510 | 6.82 | 8.00 | No |
| | | 118 | 5590 | 17.87 | 19.00 | No |
| | | 134 | 5670 | 6.67 | 8.00 | No |
| | 802.11ax(HE80) | 106 | 5530 | 8.13 | 10.00 | No |
| | | 122 | 5610 | 17.33 | 19.00 | No |
| 5.8 (5.725~5.85) | 802.11a | 149 | 5745 | 17.52 | 19.00 | No |
| | | 157 | 5785 | 17.43 | 19.00 | No |
| | | 165 | 5825 | 17.52 | 19.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 17.40 | 19.00 | No |
| | | 157 | 5785 | 17.31 | 19.00 | No |
| | | 165 | 5825 | 17.38 | 19.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 17.49 | 19.00 | No |
| | | 159 | 5795 | 17.49 | 19.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 17.42 | 19.00 | No |
| | | 157 | 5785 | 17.31 | 19.00 | No |
| | | 165 | 5825 | 17.36 | 19.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 17.50 | 19.00 | No |
| | | 159 | 5795 | 17.46 | 19.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | **17.04** | 19.00 | Yes |
| | 802.11ax(HE20) | 149 | 5745 | 17.68 | 19.00 | No |
| | | 157 | 5785 | 17.67 | 19.00 | No |
| | | 165 | 5825 | 17.71 | 19.00 | No |
| | 802.11ax(HE40) | 151 | 5755 | 17.76 | 19.00 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 159 | 5795 | 17.70 | 19.00 | No |
| | 802.11ax(HE80) | 155 | 5775 | 17.35 | 19.00 | No |
| Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. | | | | | | |

## 9.7.34 5G WIFI-ANT2-Level6

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 5.2 (5.15~5.25) | 802.11a | 36 | 5180 | 13.98 | 15.00 | No |
| | | 40 | 5200 | 14.32 | 15.00 | No |
| | | 48 | 5240 | 14.06 | 15.00 | No |
| | 802.11n(HT20) | 36 | 5180 | 13.88 | 15.00 | No |
| | | 44 | 5220 | 14.29 | 15.00 | No |
| | | 48 | 5240 | 14.20 | 15.00 | No |
| | 802.11n(HT40) | 38 | 5190 | 9.92 | 11.00 | Yes |
| | | 46 | 5230 | **14.30** | 15.00 | Yes |
| | 802.11ac(VHT20) | 36 | 5180 | 11.89 | 13.00 | No |
| | | 40 | 5200 | 14.30 | 15.00 | No |
| | | 48 | 5240 | 14.00 | 15.00 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 9.91 | 11.00 | No |
| | | 46 | 5230 | 14.34 | 15.00 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 9.30 | 11.00 | No |
| | 802.11ax(HE20) | 36 | 5180 | 14.19 | 15.00 | No |
| | | 40 | 5200 | 14.06 | 15.00 | No |
| | | 48 | 5240 | 14.00 | 15.00 | No |
| | 802.11ax(HE40) | 38 | 5190 | 14.16 | 15.00 | No |
| | | 46 | 5230 | 14.24 | 15.00 | No |
| | 802.11ax(HE80) | 42 | 5210 | 11.55 | 13.00 | No |
| 5.3 (5.25~5.35) | 802.11a | 52 | 5260 | 14.08 | 15.00 | No |
| | | 60 | 5300 | 14.18 | 15.00 | No |
| | | 64 | 5320 | 10.67 | 12.00 | No |
| | 802.11n(HT20) | 52 | 5260 | 14.07 | 15.00 | No |
| | | 60 | 5300 | 14.28 | 15.00 | No |
| | | 64 | 5320 | 10.54 | 12.00 | No |
| | 802.11n(HT40) | 54 | 5270 | **14.01** | 15.00 | Yes |
| | | 62 | 5310 | 8.63 | 10.00 | Yes |
| | 802.11ac(VHT20) | 52 | 5260 | 14.20 | 15.00 | No |
| | | 60 | 5300 | 14.36 | 15.00 | No |
| | | 64 | 5320 | 10.54 | 12.00 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 14.28 | 15.00 | No |
| | | 62 | 5310 | 8.62 | 10.00 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 8.27 | 10.00 | No |
| | 802.11ax(HE20) | 52 | 5260 | 14.16 | 15.00 | No |
| | | 60 | 5300 | 14.10 | 15.00 | No |
| | | 64 | 5320 | 10.67 | 12.00 | No |
| | 802.11ax(HE40) | 54 | 5270 | 14.26 | 15.00 | No |
| | | 62 | 5310 | 9.74 | 11.00 | No |
| | 802.11ax(HE80) | 58 | 5290 | 9.93 | 11.50 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5.6 (5.47~5.725) | 802.11a | 100 | 5500 | 10.32 | 12.00 | No |
| | | 116 | 5580 | 15.89 | 16.50 | No |
| | | 140 | 5700 | 10.51 | 12.00 | No |
| | 802.11n(HT20) | 100 | 5500 | 10.20 | 12.00 | No |
| | | 116 | 5580 | 15.75 | 16.50 | No |
| | | 140 | 5700 | 10.39 | 12.00 | No |
| | 802.11n(HT40) | 102 | 5510 | 6.58 | 8.00 | No |
| | | 118 | 5590 | 15.80 | 16.50 | No |
| | | 134 | 5670 | 6.48 | 8.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 10.20 | 12.00 | No |
| | | 116 | 5580 | 15.69 | 16.50 | No |
| | | 140 | 5700 | 10.32 | 12.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 6.63 | 8.00 | No |
| | | 118 | 5590 | 15.62 | 16.50 | No |
| | | 134 | 5670 | 6.48 | 8.00 | No |
| | 802.11ac(VHT80) | 106 | 5530 | 8.02 | 10.00 | Yes |
| | | 122 | 5610 | **15.69** | 16.50 | Yes |
| | 802.11ax(HE20) | 100 | 5500 | 10.30 | 12.00 | No |
| | | 116 | 5580 | 15.77 | 16.50 | No |
| | | 140 | 5700 | 10.52 | 12.00 | No |
| | 802.11ax(HE40) | 102 | 5510 | 6.82 | 8.00 | No |
| | | 118 | 5590 | 15.50 | 16.50 | No |
| | | 134 | 5670 | 6.67 | 8.00 | No |
| | 802.11ax(HE80) | 106 | 5530 | 8.13 | 10.00 | No |
| | | 122 | 5610 | 15.63 | 16.50 | No |
| 5.8 (5.725~5.85) | 802.11a | 149 | 5745 | 15.11 | 16.00 | No |
| | | 157 | 5785 | 15.04 | 16.00 | No |
| | | 165 | 5825 | 15.39 | 16.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 15.01 | 16.00 | No |
| | | 157 | 5785 | 15.29 | 16.00 | No |
| | | 165 | 5825 | 15.13 | 16.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 15.30 | 16.00 | No |
| | | 159 | 5795 | 15.12 | 16.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 15.40 | 16.00 | No |
| | | 157 | 5785 | 15.18 | 16.00 | No |
| | | 165 | 5825 | 15.05 | 16.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 15.23 | 16.00 | No |
| | | 159 | 5795 | 15.30 | 16.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | **15.84** | 16.00 | Yes |
| | 802.11ax(HE20) | 149 | 5745 | 15.38 | 16.00 | No |
| | | 157 | 5785 | 15.07 | 16.00 | No |
| | | 165 | 5825 | 15.36 | 16.00 | No |
| | 802.11ax(HE40) | 151 | 5755 | 15.40 | 16.00 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 159 | 5795 | 15.21 | 16.00 | No |
| | 802.11ax(HE80) | 155 | 5775 | 15.31 | 16.00 | No |
| Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. | | | | | | |

## 9.7.35 5G WIFI-ANT2-Level7

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 5.2 (5.15~5.25) | 802.11a | 36 | 5180 | 13.98 | 15.00 | No |
| | | 40 | 5200 | 14.32 | 15.00 | No |
| | | 48 | 5240 | 14.06 | 15.00 | No |
| | 802.11n(HT20) | 36 | 5180 | 13.88 | 15.00 | No |
| | | 44 | 5220 | 14.29 | 15.00 | No |
| | | 48 | 5240 | 14.20 | 15.00 | No |
| | 802.11n(HT40) | 38 | 5190 | 9.92 | 11.00 | Yes |
| | | 46 | 5230 | **14.30** | 15.00 | Yes |
| | 802.11ac(VHT20) | 36 | 5180 | 11.89 | 13.00 | No |
| | | 40 | 5200 | 14.30 | 15.00 | No |
| | | 48 | 5240 | 14.00 | 15.00 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 9.91 | 11.00 | No |
| | | 46 | 5230 | 14.34 | 15.00 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 9.30 | 11.00 | No |
| | 802.11ax(HE20) | 36 | 5180 | 14.19 | 15.00 | Yes |
| | | 40 | 5200 | 14.06 | 15.00 | Yes |
| | | 48 | 5240 | 14.00 | 15.00 | Yes |
| | 802.11ax(HE40) | 38 | 5190 | 14.16 | 15.00 | No |
| | | 46 | 5230 | 14.24 | 15.00 | No |
| | 802.11ax(HE80) | 42 | 5210 | 11.55 | 13.00 | No |
| 5.3 (5.25~5.35) | 802.11a | 52 | 5260 | 14.08 | 15.00 | No |
| | | 60 | 5300 | 14.18 | 15.00 | No |
| | | 64 | 5320 | 10.67 | 12.00 | No |
| | 802.11n(HT20) | 52 | 5260 | 14.07 | 15.00 | No |
| | | 60 | 5300 | 14.28 | 15.00 | No |
| | | 64 | 5320 | 10.54 | 12.00 | No |
| | 802.11n(HT40) | 54 | 5270 | **14.01** | 15.00 | Yes |
| | | 62 | 5310 | 8.63 | 10.00 | Yes |
| | 802.11ac(VHT20) | 52 | 5260 | 14.20 | 15.00 | No |
| | | 60 | 5300 | 14.36 | 15.00 | No |
| | | 64 | 5320 | 10.54 | 12.00 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 14.28 | 15.00 | No |
| | | 62 | 5310 | 8.62 | 10.00 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 8.27 | 10.00 | No |
| | 802.11ax(HE20) | 52 | 5260 | 14.16 | 15.00 | No |
| | | 60 | 5300 | 14.10 | 15.00 | No |
| | | 64 | 5320 | 10.67 | 12.00 | No |
| | 802.11ax(HE40) | 54 | 5270 | 14.26 | 15.00 | No |
| | | 62 | 5310 | 9.74 | 11.00 | No |
| | 802.11ax(HE80) | 58 | 5290 | 9.93 | 11.50 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5.6 (5.47~5.725) | 802.11a | 100 | 5500 | 10.32 | 12.00 | No |
| | | 116 | 5580 | 15.89 | 16.50 | No |
| | | 140 | 5700 | 10.51 | 12.00 | No |
| | 802.11n(HT20) | 100 | 5500 | 10.20 | 12.00 | No |
| | | 116 | 5580 | 15.75 | 16.50 | No |
| | | 140 | 5700 | 10.39 | 12.00 | No |
| | 802.11n(HT40) | 102 | 5510 | 6.58 | 8.00 | No |
| | | 118 | 5590 | 15.80 | 16.50 | No |
| | | 134 | 5670 | 6.48 | 8.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 10.20 | 12.00 | No |
| | | 116 | 5580 | 15.69 | 16.50 | No |
| | | 140 | 5700 | 10.32 | 12.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 6.63 | 8.00 | No |
| | | 118 | 5590 | 15.62 | 16.50 | No |
| | | 134 | 5670 | 6.48 | 8.00 | No |
| | 802.11ac(VHT80) | 106 | 5530 | 8.02 | 10.00 | Yes |
| | | 122 | 5610 | **15.69** | 16.50 | Yes |
| | 802.11ax(HE20) | 100 | 5500 | 10.30 | 12.00 | No |
| | | 116 | 5580 | 15.77 | 16.50 | No |
| | | 140 | 5700 | 10.52 | 12.00 | No |
| | 802.11ax(HE40) | 102 | 5510 | 6.82 | 8.00 | No |
| | | 118 | 5590 | 15.50 | 16.50 | No |
| | | 134 | 5670 | 6.67 | 8.00 | No |
| | 802.11ax(HE80) | 106 | 5530 | 8.13 | 10.00 | No |
| | | 122 | 5610 | 15.63 | 16.50 | No |
| 5.8 (5.725~5.85) | 802.11a | 149 | 5745 | 15.11 | 16.00 | No |
| | | 157 | 5785 | 15.04 | 16.00 | No |
| | | 165 | 5825 | 15.39 | 16.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 15.01 | 16.00 | No |
| | | 157 | 5785 | 15.29 | 16.00 | No |
| | | 165 | 5825 | 15.13 | 16.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 15.30 | 16.00 | No |
| | | 159 | 5795 | 15.12 | 16.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 15.40 | 16.00 | No |
| | | 157 | 5785 | 15.18 | 16.00 | No |
| | | 165 | 5825 | 15.05 | 16.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 15.23 | 16.00 | No |
| | | 159 | 5795 | 15.30 | 16.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | **15.84** | 16.00 | Yes |
| | 802.11ax(HE20) | 149 | 5745 | 15.38 | 16.00 | No |
| | | 157 | 5785 | 15.07 | 16.00 | No |
| | | 165 | 5825 | 15.36 | 16.00 | No |
| | 802.11ax(HE40) | 151 | 5755 | 15.40 | 16.00 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 159 | 5795 | 15.21 | 16.00 | No |
| | 802.11ax(HE80) | 155 | 5775 | 15.31 | 16.00 | No |
| Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. | | | | | | |

## 9.7.36 5G WIFI-ANT2-Level8

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 5.2 (5.15~5.25) | 802.11a | 36 | 5180 | 11.73 | 12.00 | No |
| | | 40 | 5200 | 11.74 | 12.00 | No |
| | | 48 | 5240 | 11.82 | 12.00 | No |
| | 802.11n(HT20) | 36 | 5180 | 11.29 | 12.00 | No |
| | | 44 | 5220 | 11.21 | 12.00 | No |
| | | 48 | 5240 | 11.01 | 12.00 | No |
| | 802.11n(HT40) | 38 | 5190 | **10.80** | 11.00 | Yes |
| | | 46 | 5230 | **10.80** | 12.00 | Yes |
| | 802.11ac(VHT20) | 36 | 5180 | 11.07 | 12.00 | No |
| | | 40 | 5200 | 11.33 | 12.00 | No |
| | | 48 | 5240 | 11.06 | 12.00 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 10.68 | 11.00 | No |
| | | 46 | 5230 | 10.74 | 12.00 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 10.63 | 11.00 | No |
| | 802.11ax(HE20) | 36 | 5180 | 11.65 | 12.00 | No |
| | | 40 | 5200 | 11.56 | 12.00 | No |
| | | 48 | 5240 | 11.62 | 12.00 | No |
| | 802.11ax(HE40) | 38 | 5190 | 11.07 | 12.00 | No |
| | | 46 | 5230 | 11.00 | 12.00 | No |
| | 802.11ax(HE80) | 42 | 5210 | 11.23 | 12.00 | No |
| 5.3 (5.25~5.35) | 802.11a | 52 | 5260 | 11.75 | 12.00 | No |
| | | 60 | 5300 | 11.70 | 12.00 | No |
| | | 64 | 5320 | 11.76 | 12.00 | No |
| | 802.11n(HT20) | 52 | 5260 | 11.59 | 12.00 | No |
| | | 60 | 5300 | 11.61 | 12.00 | No |
| | | 64 | 5320 | 11.64 | 12.00 | No |
| | 802.11n(HT40) | 54 | 5270 | **11.13** | 12.00 | Yes |
| | | 62 | 5310 | 9.75 | 10.00 | Yes |
| | 802.11ac(VHT20) | 52 | 5260 | 11.61 | 12.00 | No |
| | | 60 | 5300 | 11.59 | 12.00 | No |
| | | 64 | 5320 | 11.57 | 12.00 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 11.27 | 12.00 | No |
| | | 62 | 5310 | 9.57 | 10.00 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 9.65 | 10.00 | No |
| | 802.11ax(HE20) | 52 | 5260 | 11.76 | 12.00 | No |
| | | 60 | 5300 | 11.65 | 12.00 | No |
| | | 64 | 5320 | 11.80 | 12.00 | No |
| | 802.11ax(HE40) | 54 | 5270 | 10.76 | 12.00 | No |
| | | 62 | 5310 | 10.86 | 11.00 | No |
| | 802.11ax(HE80) | 58 | 5290 | 11.01 | 11.50 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5.6 (5.47~5.725) | 802.11a | 100 | 5500 | 10.32 | 12.00 | Yes |
| | | 116 | 5580 | **13.04** | 14.00 | Yes |
| | | 140 | 5700 | 10.51 | 12.00 | Yes |
| | 802.11n(HT20) | 100 | 5500 | 10.20 | 12.00 | No |
| | | 116 | 5580 | 13.06 | 14.00 | No |
| | | 140 | 5700 | 10.39 | 12.00 | No |
| | 802.11n(HT40) | 102 | 5510 | 6.58 | 8.00 | No |
| | | 118 | 5590 | 13.31 | 14.00 | No |
| | | 134 | 5670 | 6.48 | 8.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 10.20 | 12.00 | No |
| | | 116 | 5580 | 13.22 | 14.00 | No |
| | | 140 | 5700 | 10.32 | 12.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 6.63 | 8.00 | No |
| | | 118 | 5590 | 13.32 | 14.00 | No |
| | | 134 | 5670 | 6.48 | 8.00 | No |
| | 802.11ac(VHT80) | 106 | 5530 | 8.02 | 10.00 | No |
| | | 122 | 5610 | 13.40 | 14.00 | No |
| | 802.11ax(HE20) | 100 | 5500 | 10.30 | 12.00 | No |
| | | 116 | 5580 | 13.19 | 14.00 | No |
| | | 140 | 5700 | 10.52 | 12.00 | No |
| | 802.11ax(HE40) | 102 | 5510 | 6.82 | 8.00 | No |
| | | 118 | 5590 | 13.16 | 14.00 | No |
| | | 134 | 5670 | 6.67 | 8.00 | No |
| | 802.11ax(HE80) | 106 | 5530 | 8.13 | 10.00 | No |
| | | 122 | 5610 | 13.25 | 14.00 | No |
| 5.8 (5.725~5.85) | 802.11a | 149 | 5745 | 12.18 | 13.00 | No |
| | | 157 | 5785 | 12.23 | 13.00 | No |
| | | 165 | 5825 | 12.13 | 13.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 12.02 | 13.00 | No |
| | | 157 | 5785 | 12.29 | 13.00 | No |
| | | 165 | 5825 | 12.08 | 13.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 12.23 | 13.00 | No |
| | | 159 | 5795 | 12.18 | 13.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 12.37 | 13.00 | No |
| | | 157 | 5785 | 12.28 | 13.00 | No |
| | | 165 | 5825 | 12.35 | 13.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 12.12 | 13.00 | No |
| | | 159 | 5795 | 12.21 | 13.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | **12.93** | 13.00 | Yes |
| | 802.11ax(HE20) | 149 | 5745 | 12.12 | 13.00 | No |
| | | 157 | 5785 | 12.18 | 13.00 | No |
| | | 165 | 5825 | 12.40 | 13.00 | No |
| | 802.11ax(HE40) | 151 | 5755 | 12.09 | 13.00 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 159 | 5795 | 12.36 | 13.00 | No |
| | 802.11ax(HE80) | 155 | 5775 | 12.26 | 13.00 | No |
| Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. | | | | | | |

## 9.7.37 5G WIFI-ANT7-Full power

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 5.2 (5.15~5.25) | 802.11a | 36 | 5180 | 14.40 | 15.00 | No |
| | | 40 | 5200 | 18.15 | 19.00 | No |
| | | 48 | 5240 | 18.16 | 19.00 | No |
| | 802.11n(HT20) | 36 | 5180 | 14.32 | 15.00 | No |
| | | 44 | 5220 | 18.08 | 19.00 | No |
| | | 48 | 5240 | 18.06 | 19.00 | No |
| | 802.11n(HT40) | 38 | 5190 | 10.34 | 11.00 | No |
| | | 46 | 5230 | 18.08 | 19.00 | No |
| | 802.11ac(VHT20) | 36 | 5180 | 12.34 | 13.00 | No |
| | | 40 | 5200 | 18.02 | 19.00 | No |
| | | 48 | 5240 | 18.16 | 19.00 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 10.30 | 11.00 | No |
| | | 46 | 5230 | 18.09 | 19.00 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 9.70 | 11.00 | No |
| | 802.11ax(HE20) | 36 | 5180 | 15.57 | 16.00 | No |
| | | 40 | 5200 | 18.33 | 19.00 | No |
| | | 48 | 5240 | 18.33 | 19.00 | No |
| | 802.11ax(HE40) | 38 | 5190 | 14.61 | 15.00 | No |
| | | 46 | 5230 | 18.43 | 19.00 | No |
| | 802.11ax(HE80) | 42 | 5210 | 11.99 | 13.00 | No |
| 5.3 (5.25~5.35) | 802.11a | 52 | 5260 | 18.03 | 19.00 | No |
| | | 60 | 5300 | 18.02 | 19.00 | No |
| | | 64 | 5320 | 10.83 | 12.00 | No |
| | 802.11n(HT20) | 52 | 5260 | 17.75 | 19.00 | No |
| | | 60 | 5300 | 17.72 | 19.00 | No |
| | | 64 | 5320 | 10.69 | 12.00 | No |
| | 802.11n(HT40) | 54 | 5270 | **17.78** | 19.00 | Yes |
| | | 62 | 5310 | 8.67 | 10.00 | Yes |
| | 802.11ac(VHT20) | 52 | 5260 | 17.75 | 19.00 | No |
| | | 60 | 5300 | 17.73 | 19.00 | No |
| | | 64 | 5320 | 10.71 | 12.00 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 17.76 | 19.00 | No |
| | | 62 | 5310 | 8.67 | 10.00 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 8.34 | 10.00 | No |
| | 802.11ax(HE20) | 52 | 5260 | 17.81 | 19.00 | No |
| | | 60 | 5300 | 17.77 | 19.00 | No |
| | | 64 | 5320 | 10.79 | 12.00 | No |
| | 802.11ax(HE40) | 54 | 5270 | 17.85 | 19.00 | No |
| | | 62 | 5310 | 9.77 | 11.00 | No |
| | 802.11ax(HE80) | 58 | 5290 | 10.02 | 11.50 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5.6 (5.47~5.725) | 802.11a | 100 | 5500 | 10.74 | 12.00 | No |
| | | 116 | 5580 | 17.89 | 19.00 | No |
| | | 140 | 5700 | 11.28 | 12.00 | No |
| | 802.11n(HT20) | 100 | 5500 | 10.61 | 12.00 | No |
| | | 116 | 5580 | 17.75 | 19.00 | No |
| | | 140 | 5700 | 11.12 | 12.00 | No |
| | 802.11n(HT40) | 102 | 5510 | 6.93 | 8.00 | No |
| | | 118 | 5590 | 17.99 | 19.00 | No |
| | | 134 | 5670 | 7.18 | 8.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 10.62 | 12.00 | No |
| | | 116 | 5580 | 17.76 | 19.00 | No |
| | | 140 | 5700 | 11.13 | 12.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 6.91 | 8.00 | No |
| | | 118 | 5590 | 17.99 | 19.00 | No |
| | | 134 | 5670 | 6.97 | 8.00 | No |
| | 802.11ac(VHT80) | 106 | 5530 | 8.19 | 10.00 | Yes |
| | | 122 | 5610 | **17.38** | 19.00 | Yes |
| | 802.11ax(HE20) | 100 | 5500 | 10.72 | 12.00 | No |
| | | 116 | 5580 | 17.86 | 19.00 | No |
| | | 140 | 5700 | 11.25 | 12.00 | No |
| | 802.11ax(HE40) | 102 | 5510 | 7.14 | 8.00 | No |
| | | 118 | 5590 | 18.20 | 19.00 | No |
| | | 134 | 5670 | 7.36 | 8.00 | No |
| | 802.11ax(HE80) | 106 | 5530 | 8.53 | 10.00 | No |
| | | 122 | 5610 | 18.14 | 19.00 | No |
| 5.8 (5.725~5.85) | 802.11a | 149 | 5745 | 18.05 | 19.00 | No |
| | | 157 | 5785 | 18.06 | 19.00 | No |
| | | 165 | 5825 | 18.17 | 19.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 17.99 | 19.00 | No |
| | | 157 | 5785 | 17.94 | 19.00 | No |
| | | 165 | 5825 | 18.06 | 19.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 18.06 | 19.00 | No |
| | | 159 | 5795 | 18.06 | 19.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 17.96 | 19.00 | No |
| | | 157 | 5785 | 17.94 | 19.00 | No |
| | | 165 | 5825 | 18.06 | 19.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 18.08 | 19.00 | No |
| | | 159 | 5795 | 18.10 | 19.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | **17.53** | 19.00 | Yes |
| | 802.11ax(HE20) | 149 | 5745 | 18.34 | 19.00 | No |
| | | 157 | 5785 | 18.34 | 19.00 | No |
| | | 165 | 5825 | 18.43 | 19.00 | No |
| | 802.11ax(HE40) | 151 | 5755 | 18.36 | 19.00 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 159 | 5795 | 18.38 | 19.00 | No |
| | 802.11ax(HE80) | 155 | 5775 | 17.97 | 19.00 | No |
| Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. | | | | | | |

## 9.7.38 5G WIFI-ANT7-Level1

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 5.2 (5.15~5.25) | 802.11a | 36 | 5180 | 14.40 | 15.00 | No |
| | | 40 | 5200 | 18.15 | 19.00 | No |
| | | 48 | 5240 | 18.16 | 19.00 | No |
| | 802.11n(HT20) | 36 | 5180 | 14.32 | 15.00 | No |
| | | 44 | 5220 | 18.08 | 19.00 | No |
| | | 48 | 5240 | 18.06 | 19.00 | No |
| | 802.11n(HT40) | 38 | 5190 | 10.34 | 11.00 | No |
| | | 46 | 5230 | 18.08 | 19.00 | No |
| | 802.11ac(VHT20) | 36 | 5180 | 12.34 | 13.00 | No |
| | | 40 | 5200 | 18.02 | 19.00 | No |
| | | 48 | 5240 | 18.16 | 19.00 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 10.30 | 11.00 | No |
| | | 46 | 5230 | 18.09 | 19.00 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 9.70 | 11.00 | No |
| | 802.11ax(HE20) | 36 | 5180 | 15.57 | 16.00 | No |
| | | 40 | 5200 | 18.33 | 19.00 | No |
| | | 48 | 5240 | 18.33 | 19.00 | No |
| | 802.11ax(HE40) | 38 | 5190 | 14.61 | 15.00 | No |
| | | 46 | 5230 | 18.43 | 19.00 | No |
| | 802.11ax(HE80) | 42 | 5210 | 11.99 | 13.00 | No |
| 5.3 (5.25~5.35) | 802.11a | 52 | 5260 | 18.03 | 19.00 | No |
| | | 60 | 5300 | 18.02 | 19.00 | No |
| | | 64 | 5320 | 10.83 | 12.00 | No |
| | 802.11n(HT20) | 52 | 5260 | 17.75 | 19.00 | No |
| | | 60 | 5300 | 17.72 | 19.00 | No |
| | | 64 | 5320 | 10.69 | 12.00 | No |
| | 802.11n(HT40) | 54 | 5270 | **17.78** | 19.00 | Yes |
| | | 62 | 5310 | 8.67 | 10.00 | Yes |
| | 802.11ac(VHT20) | 52 | 5260 | 17.75 | 19.00 | No |
| | | 60 | 5300 | 17.73 | 19.00 | No |
| | | 64 | 5320 | 10.71 | 12.00 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 17.76 | 19.00 | No |
| | | 62 | 5310 | 8.67 | 10.00 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 8.34 | 10.00 | No |
| | 802.11ax(HE20) | 52 | 5260 | 17.81 | 19.00 | No |
| | | 60 | 5300 | 17.77 | 19.00 | No |
| | | 64 | 5320 | 10.79 | 12.00 | No |
| | 802.11ax(HE40) | 54 | 5270 | 17.85 | 19.00 | No |
| | | 62 | 5310 | 9.77 | 11.00 | No |
| | 802.11ax(HE80) | 58 | 5290 | 10.02 | 11.50 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5.6 (5.47~5.725) | 802.11a | 100 | 5500 | 10.74 | 12.00 | No |
| | | 116 | 5580 | 17.89 | 19.00 | No |
| | | 140 | 5700 | 11.28 | 12.00 | No |
| | 802.11n(HT20) | 100 | 5500 | 10.61 | 12.00 | No |
| | | 116 | 5580 | 17.75 | 19.00 | No |
| | | 140 | 5700 | 11.12 | 12.00 | No |
| | 802.11n(HT40) | 102 | 5510 | 6.93 | 8.00 | No |
| | | 118 | 5590 | 17.99 | 19.00 | No |
| | | 134 | 5670 | 7.18 | 8.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 10.62 | 12.00 | No |
| | | 116 | 5580 | 17.76 | 19.00 | No |
| | | 140 | 5700 | 11.13 | 12.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 6.91 | 8.00 | No |
| | | 118 | 5590 | 17.99 | 19.00 | No |
| | | 134 | 5670 | 6.97 | 8.00 | No |
| | 802.11ac(VHT80) | 106 | 5530 | 8.19 | 10.00 | Yes |
| | | 122 | 5610 | **17.38** | 19.00 | Yes |
| | 802.11ax(HE20) | 100 | 5500 | 10.72 | 12.00 | No |
| | | 116 | 5580 | 17.86 | 19.00 | No |
| | | 140 | 5700 | 11.25 | 12.00 | No |
| | 802.11ax(HE40) | 102 | 5510 | 7.14 | 8.00 | No |
| | | 118 | 5590 | 18.20 | 19.00 | No |
| | | 134 | 5670 | 7.36 | 8.00 | No |
| | 802.11ax(HE80) | 106 | 5530 | 8.53 | 10.00 | No |
| | | 122 | 5610 | 18.14 | 19.00 | No |
| 5.8 (5.725~5.85) | 802.11a | 149 | 5745 | 18.05 | 19.00 | No |
| | | 157 | 5785 | 18.06 | 19.00 | No |
| | | 165 | 5825 | 18.17 | 19.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 17.99 | 19.00 | No |
| | | 157 | 5785 | 17.94 | 19.00 | No |
| | | 165 | 5825 | 18.06 | 19.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 18.06 | 19.00 | No |
| | | 159 | 5795 | 18.06 | 19.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 17.96 | 19.00 | No |
| | | 157 | 5785 | 17.94 | 19.00 | No |
| | | 165 | 5825 | 18.06 | 19.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 18.08 | 19.00 | No |
| | | 159 | 5795 | 18.10 | 19.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | **17.53** | 19.00 | Yes |
| | 802.11ax(HE20) | 149 | 5745 | 18.34 | 19.00 | No |
| | | 157 | 5785 | 18.34 | 19.00 | No |
| | | 165 | 5825 | 18.43 | 19.00 | No |
| | 802.11ax(HE40) | 151 | 5755 | 18.36 | 19.00 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 159 | 5795 | 18.38 | 19.00 | No |
| | 802.11ax(HE80) | 155 | 5775 | 17.97 | 19.00 | No |
| Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. | | | | | | |

## 9.7.39 5G WIFI-ANT7-Level2

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 5.2 (5.15~5.25) | 802.11a | 36 | 5180 | 14.40 | 15.00 | No |
| | | 40 | 5200 | 18.15 | 19.00 | No |
| | | 48 | 5240 | 18.16 | 19.00 | No |
| | 802.11n(HT20) | 36 | 5180 | 14.32 | 15.00 | No |
| | | 44 | 5220 | 18.08 | 19.00 | No |
| | | 48 | 5240 | 18.06 | 19.00 | No |
| | 802.11n(HT40) | 38 | 5190 | 10.34 | 11.00 | No |
| | | 46 | 5230 | 18.08 | 19.00 | No |
| | 802.11ac(VHT20) | 36 | 5180 | 12.34 | 13.00 | No |
| | | 40 | 5200 | 18.02 | 19.00 | No |
| | | 48 | 5240 | 18.16 | 19.00 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 10.30 | 11.00 | No |
| | | 46 | 5230 | 18.09 | 19.00 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 9.70 | 11.00 | No |
| | 802.11ax(HE20) | 36 | 5180 | 15.57 | 16.00 | No |
| | | 40 | 5200 | 18.33 | 19.00 | No |
| | | 48 | 5240 | 18.33 | 19.00 | No |
| | 802.11ax(HE40) | 38 | 5190 | 14.61 | 15.00 | No |
| | | 46 | 5230 | 18.43 | 19.00 | No |
| | 802.11ax(HE80) | 42 | 5210 | 11.99 | 13.00 | No |
| 5.3 (5.25~5.35) | 802.11a | 52 | 5260 | 18.03 | 19.00 | No |
| | | 60 | 5300 | 18.02 | 19.00 | No |
| | | 64 | 5320 | 10.83 | 12.00 | No |
| | 802.11n(HT20) | 52 | 5260 | 17.75 | 19.00 | No |
| | | 60 | 5300 | 17.72 | 19.00 | No |
| | | 64 | 5320 | 10.69 | 12.00 | No |
| | 802.11n(HT40) | 54 | 5270 | **17.78** | 19.00 | Yes |
| | | 62 | 5310 | 8.67 | 10.00 | Yes |
| | 802.11ac(VHT20) | 52 | 5260 | 17.75 | 19.00 | No |
| | | 60 | 5300 | 17.73 | 19.00 | No |
| | | 64 | 5320 | 10.71 | 12.00 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 17.76 | 19.00 | No |
| | | 62 | 5310 | 8.67 | 10.00 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 8.34 | 10.00 | No |
| | 802.11ax(HE20) | 52 | 5260 | 17.81 | 19.00 | No |
| | | 60 | 5300 | 17.77 | 19.00 | No |
| | | 64 | 5320 | 10.79 | 12.00 | No |
| | 802.11ax(HE40) | 54 | 5270 | 17.85 | 19.00 | No |
| | | 62 | 5310 | 9.77 | 11.00 | No |
| | 802.11ax(HE80) | 58 | 5290 | 10.02 | 11.50 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5.6 (5.47~5.725) | 802.11a | 100 | 5500 | 10.74 | 12.00 | No |
| | | 116 | 5580 | 17.18 | 18.00 | No |
| | | 140 | 5700 | 11.28 | 12.00 | No |
| | 802.11n(HT20) | 100 | 5500 | 10.61 | 12.00 | No |
| | | 116 | 5580 | 17.09 | 18.00 | No |
| | | 140 | 5700 | 11.12 | 12.00 | No |
| | 802.11n(HT40) | 102 | 5510 | 6.93 | 8.00 | No |
| | | 118 | 5590 | 17.38 | 18.00 | No |
| | | 134 | 5670 | 7.18 | 8.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 10.62 | 12.00 | No |
| | | 116 | 5580 | 17.06 | 18.00 | No |
| | | 140 | 5700 | 11.13 | 12.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 6.91 | 8.00 | No |
| | | 118 | 5590 | 17.37 | 18.00 | No |
| | | 134 | 5670 | 6.97 | 8.00 | No |
| | 802.11ac(VHT80) | 106 | 5530 | 8.19 | 10.00 | Yes |
| | | 122 | 5610 | **17.00** | 18.00 | Yes |
| | 802.11ax(HE20) | 100 | 5500 | 10.72 | 12.00 | No |
| | | 116 | 5580 | 17.26 | 18.00 | No |
| | | 140 | 5700 | 11.25 | 12.00 | No |
| | 802.11ax(HE40) | 102 | 5510 | 7.14 | 8.00 | No |
| | | 118 | 5590 | 17.33 | 18.00 | No |
| | | 134 | 5670 | 7.36 | 8.00 | No |
| | 802.11ax(HE80) | 106 | 5530 | 8.53 | 10.00 | No |
| | | 122 | 5610 | 17.07 | 18.00 | No |
| 5.8 (5.725~5.85) | 802.11a | 149 | 5745 | 18.05 | 19.00 | No |
| | | 157 | 5785 | 18.06 | 19.00 | No |
| | | 165 | 5825 | 18.17 | 19.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 17.99 | 19.00 | No |
| | | 157 | 5785 | 17.94 | 19.00 | No |
| | | 165 | 5825 | 18.06 | 19.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 18.06 | 19.00 | No |
| | | 159 | 5795 | 18.06 | 19.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 17.96 | 19.00 | No |
| | | 157 | 5785 | 17.94 | 19.00 | No |
| | | 165 | 5825 | 18.06 | 19.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 18.08 | 19.00 | No |
| | | 159 | 5795 | 18.10 | 19.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | **17.53** | 19.00 | Yes |
| | 802.11ax(HE20) | 149 | 5745 | 18.34 | 19.00 | No |
| | | 157 | 5785 | 18.34 | 19.00 | No |
| | | 165 | 5825 | 18.43 | 19.00 | No |
| | 802.11ax(HE40) | 151 | 5755 | 18.36 | 19.00 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 159 | 5795 | 18.38 | 19.00 | No |
| | 802.11ax(HE80) | 155 | 5775 | 17.97 | 19.00 | No |
| Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. | | | | | | |

## 9.7.40 5G WIFI-ANT7-Level3

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 5.2 (5.15~5.25) | 802.11a | 36 | 5180 | 14.40 | 15.00 | No |
| | | 40 | 5200 | 18.15 | 19.00 | No |
| | | 48 | 5240 | 18.16 | 19.00 | No |
| | 802.11n(HT20) | 36 | 5180 | 14.32 | 15.00 | No |
| | | 44 | 5220 | 18.08 | 19.00 | No |
| | | 48 | 5240 | 18.06 | 19.00 | No |
| | 802.11n(HT40) | 38 | 5190 | 10.34 | 11.00 | No |
| | | 46 | 5230 | 18.08 | 19.00 | No |
| | 802.11ac(VHT20) | 36 | 5180 | 12.34 | 13.00 | No |
| | | 40 | 5200 | 18.02 | 19.00 | No |
| | | 48 | 5240 | 18.16 | 19.00 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 10.30 | 11.00 | No |
| | | 46 | 5230 | 18.09 | 19.00 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 9.70 | 11.00 | No |
| | 802.11ax(HE20) | 36 | 5180 | 15.57 | 16.00 | No |
| | | 40 | 5200 | 18.33 | 19.00 | No |
| | | 48 | 5240 | 18.33 | 19.00 | No |
| | 802.11ax(HE40) | 38 | 5190 | 14.61 | 15.00 | No |
| | | 46 | 5230 | 18.43 | 19.00 | No |
| | 802.11ax(HE80) | 42 | 5210 | 11.99 | 13.00 | No |
| 5.3 (5.25~5.35) | 802.11a | 52 | 5260 | 18.03 | 19.00 | No |
| | | 60 | 5300 | 18.02 | 19.00 | No |
| | | 64 | 5320 | 10.83 | 12.00 | No |
| | 802.11n(HT20) | 52 | 5260 | 17.75 | 19.00 | No |
| | | 60 | 5300 | 17.72 | 19.00 | No |
| | | 64 | 5320 | 10.69 | 12.00 | No |
| | 802.11n(HT40) | 54 | 5270 | **17.78** | 19.00 | Yes |
| | | 62 | 5310 | 8.67 | 10.00 | Yes |
| | 802.11ac(VHT20) | 52 | 5260 | 17.75 | 19.00 | No |
| | | 60 | 5300 | 17.73 | 19.00 | No |
| | | 64 | 5320 | 10.71 | 12.00 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 17.76 | 19.00 | No |
| | | 62 | 5310 | 8.67 | 10.00 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 8.34 | 10.00 | No |
| | 802.11ax(HE20) | 52 | 5260 | 17.81 | 19.00 | No |
| | | 60 | 5300 | 17.77 | 19.00 | No |
| | | 64 | 5320 | 10.79 | 12.00 | No |
| | 802.11ax(HE40) | 54 | 5270 | 17.85 | 19.00 | No |
| | | 62 | 5310 | 9.77 | 11.00 | No |
| | 802.11ax(HE80) | 58 | 5290 | 10.02 | 11.50 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5.6 (5.47~5.725) | 802.11a | 100 | 5500 | 10.74 | 12.00 | No |
| | | 116 | 5580 | 17.18 | 18.00 | No |
| | | 140 | 5700 | 11.28 | 12.00 | No |
| | 802.11n(HT20) | 100 | 5500 | 10.61 | 12.00 | No |
| | | 116 | 5580 | 17.09 | 18.00 | No |
| | | 140 | 5700 | 11.12 | 12.00 | No |
| | 802.11n(HT40) | 102 | 5510 | 6.93 | 8.00 | No |
| | | 118 | 5590 | 17.38 | 18.00 | No |
| | | 134 | 5670 | 7.18 | 8.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 10.62 | 12.00 | No |
| | | 116 | 5580 | 17.06 | 18.00 | No |
| | | 140 | 5700 | 11.13 | 12.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 6.91 | 8.00 | No |
| | | 118 | 5590 | 17.37 | 18.00 | No |
| | | 134 | 5670 | 6.97 | 8.00 | No |
| | 802.11ac(VHT80) | 106 | 5530 | 8.19 | 10.00 | Yes |
| | | 122 | 5610 | **17.00** | 18.00 | Yes |
| | 802.11ax(HE20) | 100 | 5500 | 10.72 | 12.00 | No |
| | | 116 | 5580 | 17.26 | 18.00 | No |
| | | 140 | 5700 | 11.25 | 12.00 | No |
| | 802.11ax(HE40) | 102 | 5510 | 7.14 | 8.00 | No |
| | | 118 | 5590 | 17.33 | 18.00 | No |
| | | 134 | 5670 | 7.36 | 8.00 | No |
| | 802.11ax(HE80) | 106 | 5530 | 8.53 | 10.00 | No |
| | | 122 | 5610 | 17.07 | 18.00 | No |
| 5.8 (5.725~5.85) | 802.11a | 149 | 5745 | 17.45 | 18.00 | No |
| | | 157 | 5785 | 17.60 | 18.00 | No |
| | | 165 | 5825 | 17.53 | 18.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 17.34 | 18.00 | No |
| | | 157 | 5785 | 17.70 | 18.00 | No |
| | | 165 | 5825 | 17.41 | 18.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 17.43 | 18.00 | No |
| | | 159 | 5795 | 17.33 | 18.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 17.41 | 18.00 | No |
| | | 157 | 5785 | 17.44 | 18.00 | No |
| | | 165 | 5825 | 17.64 | 18.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 17.58 | 18.00 | No |
| | | 159 | 5795 | 17.46 | 18.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | **17.46** | 18.00 | Yes |
| | 802.11ax(HE20) | 149 | 5745 | 17.66 | 18.00 | No |
| | | 157 | 5785 | 17.46 | 18.00 | No |
| | | 165 | 5825 | 17.54 | 18.00 | No |
| | 802.11ax(HE40) | 151 | 5755 | 17.50 | 18.00 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 159 | 5795 | 17.42 | 18.00 | No |
| | 802.11ax(HE80) | 155 | 5775 | 17.45 | 18.00 | No |
| Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. | | | | | | |

## 9.7.41 5G WIFI-ANT7-Level4

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 5.2 (5.15~5.25) | 802.11a | 36 | 5180 | 13.57 | 14.50 | No |
| | | 40 | 5200 | 13.52 | 14.50 | No |
| | | 48 | 5240 | 13.62 | 14.50 | No |
| | 802.11n(HT20) | 36 | 5180 | 13.54 | 14.50 | No |
| | | 44 | 5220 | 13.62 | 14.50 | No |
| | | 48 | 5240 | 13.85 | 14.50 | No |
| | 802.11n(HT40) | 38 | 5190 | 10.34 | 11.00 | No |
| | | 46 | 5230 | 13.56 | 14.50 | No |
| | 802.11ac(VHT20) | 36 | 5180 | 12.34 | 13.00 | No |
| | | 40 | 5200 | 13.89 | 14.50 | No |
| | | 48 | 5240 | 13.65 | 14.50 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 10.30 | 11.00 | No |
| | | 46 | 5230 | 13.74 | 14.50 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 9.70 | 11.00 | No |
| | 802.11ax(HE20) | 36 | 5180 | 13.76 | 14.50 | No |
| | | 40 | 5200 | 13.79 | 14.50 | No |
| | | 48 | 5240 | 13.83 | 14.50 | No |
| | 802.11ax(HE40) | 38 | 5190 | 13.73 | 14.50 | No |
| | | 46 | 5230 | 13.59 | 14.50 | No |
| | 802.11ax(HE80) | 42 | 5210 | 11.99 | 13.00 | No |
| 5.3 (5.25~5.35) | 802.11a | 52 | 5260 | 13.79 | 14.50 | No |
| | | 60 | 5300 | 13.65 | 14.50 | No |
| | | 64 | 5320 | 10.83 | 12.00 | No |
| | 802.11n(HT20) | 52 | 5260 | 13.71 | 14.50 | No |
| | | 60 | 5300 | 13.69 | 14.50 | No |
| | | 64 | 5320 | 10.69 | 12.00 | No |
| | 802.11n(HT40) | 54 | 5270 | **13.60** | 14.50 | Yes |
| | | 62 | 5310 | 8.67 | 10.00 | Yes |
| | 802.11ac(VHT20) | 52 | 5260 | 13.63 | 14.50 | No |
| | | 60 | 5300 | 13.82 | 14.50 | No |
| | | 64 | 5320 | 10.71 | 12.00 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 13.75 | 14.50 | No |
| | | 62 | 5310 | 8.67 | 10.00 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 8.34 | 10.00 | No |
| | 802.11ax(HE20) | 52 | 5260 | 13.77 | 14.50 | No |
| | | 60 | 5300 | 13.73 | 14.50 | No |
| | | 64 | 5320 | 10.79 | 12.00 | No |
| | 802.11ax(HE40) | 54 | 5270 | 13.55 | 14.50 | No |
| | | 62 | 5310 | 9.77 | 11.00 | No |
| | 802.11ax(HE80) | 58 | 5290 | 10.02 | 11.50 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5.6 (5.47~5.725) | 802.11a | 100 | 5500 | 10.74 | 12.00 | No |
| | | 116 | 5580 | 12.73 | 13.50 | No |
| | | 140 | 5700 | 11.28 | 12.00 | No |
| | 802.11n(HT20) | 100 | 5500 | 10.61 | 12.00 | No |
| | | 116 | 5580 | 12.72 | 13.50 | No |
| | | 140 | 5700 | 11.12 | 12.00 | No |
| | 802.11n(HT40) | 102 | 5510 | 6.93 | 8.00 | No |
| | | 118 | 5590 | 12.88 | 13.50 | No |
| | | 134 | 5670 | 7.18 | 8.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 10.62 | 12.00 | No |
| | | 116 | 5580 | 12.68 | 13.50 | No |
| | | 140 | 5700 | 11.13 | 12.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 6.91 | 8.00 | No |
| | | 118 | 5590 | 12.87 | 13.50 | No |
| | | 134 | 5670 | 6.97 | 8.00 | No |
| | 802.11ac(VHT80) | 106 | 5530 | 8.19 | 10.00 | Yes |
| | | 122 | 5610 | **12.59** | 13.50 | Yes |
| | 802.11ax(HE20) | 100 | 5500 | 10.72 | 12.00 | No |
| | | 116 | 5580 | 12.74 | 13.50 | No |
| | | 140 | 5700 | 11.25 | 12.00 | No |
| | 802.11ax(HE40) | 102 | 5510 | 7.14 | 8.00 | No |
| | | 118 | 5590 | 12.50 | 13.50 | No |
| | | 134 | 5670 | 7.36 | 8.00 | No |
| | 802.11ax(HE80) | 106 | 5530 | 8.53 | 10.00 | No |
| | | 122 | 5610 | 12.69 | 13.50 | No |
| 5.8 (5.725~5.85) | 802.11a | 149 | 5745 | 13.32 | 14.00 | No |
| | | 157 | 5785 | 13.18 | 14.00 | No |
| | | 165 | 5825 | 13.35 | 14.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 13.05 | 14.00 | No |
| | | 157 | 5785 | 13.12 | 14.00 | No |
| | | 165 | 5825 | 13.19 | 14.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 13.04 | 14.00 | No |
| | | 159 | 5795 | 13.04 | 14.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 13.26 | 14.00 | No |
| | | 157 | 5785 | 13.02 | 14.00 | No |
| | | 165 | 5825 | 13.05 | 14.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 13.29 | 14.00 | No |
| | | 159 | 5795 | 13.22 | 14.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | **13.89** | 14.00 | Yes |
| | 802.11ax(HE20) | 149 | 5745 | 13.14 | 14.00 | No |
| | | 157 | 5785 | 13.02 | 14.00 | No |
| | | 165 | 5825 | 13.12 | 14.00 | No |
| | 802.11ax(HE40) | 151 | 5755 | 13.09 | 14.00 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 159 | 5795 | 13.14 | 14.00 | No |
| | 802.11ax(HE80) | 155 | 5775 | 13.25 | 14.00 | No |
| Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. | | | | | | |

## 9.7.42 5G WIFI-ANT7-Level5

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 5.2 (5.15~5.25) | 802.11a | 36 | 5180 | 14.40 | 15.00 | No |
| | | 40 | 5200 | 18.15 | 19.00 | No |
| | | 48 | 5240 | 18.16 | 19.00 | No |
| | 802.11n(HT20) | 36 | 5180 | 14.32 | 15.00 | No |
| | | 44 | 5220 | 18.08 | 19.00 | No |
| | | 48 | 5240 | 18.06 | 19.00 | No |
| | 802.11n(HT40) | 38 | 5190 | 10.34 | 11.00 | Yes |
| | | 46 | 5230 | **18.08** | 19.00 | Yes |
| | 802.11ac(VHT20) | 36 | 5180 | 12.34 | 13.00 | No |
| | | 40 | 5200 | 18.02 | 19.00 | No |
| | | 48 | 5240 | 18.16 | 19.00 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 10.30 | 11.00 | No |
| | | 46 | 5230 | 18.09 | 19.00 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 9.70 | 11.00 | No |
| | 802.11ax(HE20) | 36 | 5180 | 15.57 | 16.00 | No |
| | | 40 | 5200 | 18.33 | 19.00 | No |
| | | 48 | 5240 | 18.33 | 19.00 | No |
| | 802.11ax(HE40) | 38 | 5190 | 14.61 | 15.00 | No |
| | | 46 | 5230 | 18.43 | 19.00 | No |
| | 802.11ax(HE80) | 42 | 5210 | 11.99 | 13.00 | No |
| 5.3 (5.25~5.35) | 802.11a | 52 | 5260 | 18.03 | 19.00 | No |
| | | 60 | 5300 | 18.02 | 19.00 | No |
| | | 64 | 5320 | 10.83 | 12.00 | No |
| | 802.11n(HT20) | 52 | 5260 | 17.75 | 19.00 | No |
| | | 60 | 5300 | 17.72 | 19.00 | No |
| | | 64 | 5320 | 10.69 | 12.00 | No |
| | 802.11n(HT40) | 54 | 5270 | **17.78** | 19.00 | Yes |
| | | 62 | 5310 | 8.67 | 10.00 | Yes |
| | 802.11ac(VHT20) | 52 | 5260 | 17.75 | 19.00 | No |
| | | 60 | 5300 | 17.73 | 19.00 | No |
| | | 64 | 5320 | 10.71 | 12.00 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 17.76 | 19.00 | No |
| | | 62 | 5310 | 8.67 | 10.00 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 8.34 | 10.00 | No |
| | 802.11ax(HE20) | 52 | 5260 | 17.81 | 19.00 | No |
| | | 60 | 5300 | 17.77 | 19.00 | No |
| | | 64 | 5320 | 10.79 | 12.00 | No |
| | 802.11ax(HE40) | 54 | 5270 | 17.85 | 19.00 | No |
| | | 62 | 5310 | 9.77 | 11.00 | No |
| | 802.11ax(HE80) | 58 | 5290 | 10.02 | 11.50 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5.6 (5.47~5.725) | 802.11a | 100 | 5500 | 10.74 | 12.00 | No |
| | | 116 | 5580 | 17.89 | 19.00 | No |
| | | 140 | 5700 | 11.28 | 12.00 | No |
| | 802.11n(HT20) | 100 | 5500 | 10.61 | 12.00 | No |
| | | 116 | 5580 | 17.75 | 19.00 | No |
| | | 140 | 5700 | 11.12 | 12.00 | No |
| | 802.11n(HT40) | 102 | 5510 | 6.93 | 8.00 | No |
| | | 118 | 5590 | 17.99 | 19.00 | No |
| | | 134 | 5670 | 7.18 | 8.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 10.62 | 12.00 | No |
| | | 116 | 5580 | 17.76 | 19.00 | No |
| | | 140 | 5700 | 11.13 | 12.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 6.91 | 8.00 | No |
| | | 118 | 5590 | 17.99 | 19.00 | No |
| | | 134 | 5670 | 6.97 | 8.00 | No |
| | 802.11ac(VHT80) | 106 | 5530 | 8.19 | 10.00 | Yes |
| | | 122 | 5610 | **17.38** | 19.00 | Yes |
| | 802.11ax(HE20) | 100 | 5500 | 10.72 | 12.00 | No |
| | | 116 | 5580 | 17.86 | 19.00 | No |
| | | 140 | 5700 | 11.25 | 12.00 | No |
| | 802.11ax(HE40) | 102 | 5510 | 7.14 | 8.00 | No |
| | | 118 | 5590 | 18.20 | 19.00 | No |
| | | 134 | 5670 | 7.36 | 8.00 | No |
| | 802.11ax(HE80) | 106 | 5530 | 8.53 | 10.00 | No |
| | | 122 | 5610 | 18.14 | 19.00 | No |
| 5.8 (5.725~5.85) | 802.11a | 149 | 5745 | 18.05 | 19.00 | No |
| | | 157 | 5785 | 18.06 | 19.00 | No |
| | | 165 | 5825 | 18.17 | 19.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 17.99 | 19.00 | No |
| | | 157 | 5785 | 17.94 | 19.00 | No |
| | | 165 | 5825 | 18.06 | 19.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 18.06 | 19.00 | No |
| | | 159 | 5795 | 18.06 | 19.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 17.96 | 19.00 | No |
| | | 157 | 5785 | 17.94 | 19.00 | No |
| | | 165 | 5825 | 18.06 | 19.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 18.08 | 19.00 | No |
| | | 159 | 5795 | 18.10 | 19.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | **17.53** | 19.00 | Yes |
| | 802.11ax(HE20) | 149 | 5745 | 18.34 | 19.00 | No |
| | | 157 | 5785 | 18.34 | 19.00 | No |
| | | 165 | 5825 | 18.43 | 19.00 | No |
| | 802.11ax(HE40) | 151 | 5755 | 18.36 | 19.00 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 159 | 5795 | 18.38 | 19.00 | No |
| | 802.11ax(HE80) | 155 | 5775 | 17.97 | 19.00 | No |
| Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. | | | | | | |

## 9.7.43 5G WIFI-ANT7-Level6

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 5.2 (5.15~5.25) | 802.11a | 36 | 5180 | 14.40 | 15.00 | No |
| | | 40 | 5200 | 14.20 | 15.00 | No |
| | | 48 | 5240 | 14.14 | 15.00 | No |
| | 802.11n(HT20) | 36 | 5180 | 14.32 | 15.00 | No |
| | | 44 | 5220 | 14.05 | 15.00 | No |
| | | 48 | 5240 | 14.29 | 15.00 | No |
| | 802.11n(HT40) | 38 | 5190 | 10.34 | 11.00 | Yes |
| | | 46 | 5230 | **14.09** | 15.00 | Yes |
| | 802.11ac(VHT20) | 36 | 5180 | 12.34 | 13.00 | No |
| | | 40 | 5200 | 14.25 | 15.00 | No |
| | | 48 | 5240 | 14.35 | 15.00 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 10.30 | 11.00 | No |
| | | 46 | 5230 | 14.34 | 15.00 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 9.70 | 11.00 | No |
| | 802.11ax(HE20) | 36 | 5180 | 14.35 | 15.00 | No |
| | | 40 | 5200 | 14.09 | 15.00 | No |
| | | 48 | 5240 | 14.39 | 15.00 | No |
| | 802.11ax(HE40) | 38 | 5190 | 14.61 | 15.00 | No |
| | | 46 | 5230 | 14.11 | 15.00 | No |
| | 802.11ax(HE80) | 42 | 5210 | 11.99 | 13.00 | No |
| 5.3 (5.25~5.35) | 802.11a | 52 | 5260 | 14.27 | 15.00 | Yes |
| | | 60 | 5300 | **14.31** | 15.00 | Yes |
| | | 64 | 5320 | 10.83 | 12.00 | Yes |
| | 802.11n(HT20) | 52 | 5260 | 14.19 | 15.00 | No |
| | | 60 | 5300 | 14.07 | 15.00 | No |
| | | 64 | 5320 | 10.69 | 12.00 | No |
| | 802.11n(HT40) | 54 | 5270 | 14.00 | 15.00 | No |
| | | 62 | 5310 | 9.37 | 10.00 | No |
| | 802.11ac(VHT20) | 52 | 5260 | 14.26 | 15.00 | No |
| | | 60 | 5300 | 14.28 | 15.00 | No |
| | | 64 | 5320 | 10.71 | 12.00 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 14.05 | 15.00 | No |
| | | 62 | 5310 | 8.67 | 10.00 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 8.34 | 10.00 | No |
| | 802.11ax(HE20) | 52 | 5260 | 14.25 | 15.00 | No |
| | | 60 | 5300 | 14.29 | 15.00 | No |
| | | 64 | 5320 | 10.79 | 12.00 | No |
| | 802.11ax(HE40) | 54 | 5270 | 14.16 | 15.00 | No |
| | | 62 | 5310 | 9.77 | 11.00 | No |
| | 802.11ax(HE80) | 58 | 5290 | 10.02 | 11.50 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5.6 (5.47~5.725) | 802.11a | 100 | 5500 | 10.74 | 12.00 | Yes |
| | | 116 | 5580 | **15.76** | 16.50 | Yes |
| | | 140 | 5700 | 11.28 | 12.00 | Yes |
| | 802.11n(HT20) | 100 | 5500 | 10.61 | 12.00 | No |
| | | 116 | 5580 | 15.57 | 16.50 | No |
| | | 140 | 5700 | 11.12 | 12.00 | No |
| | 802.11n(HT40) | 102 | 5510 | 6.93 | 8.00 | No |
| | | 118 | 5590 | 15.87 | 16.50 | No |
| | | 134 | 5670 | 7.18 | 8.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 10.62 | 12.00 | No |
| | | 116 | 5580 | 15.65 | 16.50 | No |
| | | 140 | 5700 | 11.13 | 12.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 6.91 | 8.00 | No |
| | | 118 | 5590 | 15.61 | 16.50 | No |
| | | 134 | 5670 | 6.97 | 8.00 | No |
| | 802.11ac(VHT80) | 106 | 5530 | 9.24 | 10.00 | No |
| | | 122 | 5610 | 15.77 | 16.50 | No |
| | 802.11ax(HE20) | 100 | 5500 | 10.72 | 12.00 | No |
| | | 116 | 5580 | 15.68 | 16.50 | No |
| | | 140 | 5700 | 11.25 | 12.00 | No |
| | 802.11ax(HE40) | 102 | 5510 | 7.14 | 8.00 | No |
| | | 118 | 5590 | 15.83 | 16.50 | No |
| | | 134 | 5670 | 7.36 | 8.00 | No |
| | 802.11ax(HE80) | 106 | 5530 | 8.53 | 10.00 | No |
| | | 122 | 5610 | 15.63 | 16.50 | No |
| 5.8 (5.725~5.85) | 802.11a | 149 | 5745 | 15.10 | 16.00 | No |
| | | 157 | 5785 | 15.31 | 16.00 | No |
| | | 165 | 5825 | 15.07 | 16.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 15.02 | 16.00 | No |
| | | 157 | 5785 | 15.13 | 16.00 | No |
| | | 165 | 5825 | 15.16 | 16.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 15.15 | 16.00 | No |
| | | 159 | 5795 | 15.14 | 16.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 15.09 | 16.00 | No |
| | | 157 | 5785 | 15.14 | 16.00 | No |
| | | 165 | 5825 | 15.35 | 16.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 15.01 | 16.00 | No |
| | | 159 | 5795 | 15.37 | 16.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | **15.91** | 16.00 | Yes |
| | 802.11ax(HE20) | 149 | 5745 | 15.02 | 16.00 | No |
| | | 157 | 5785 | 15.07 | 16.00 | No |
| | | 165 | 5825 | 15.13 | 16.00 | No |
| | 802.11ax(HE40) | 151 | 5755 | 15.14 | 16.00 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 159 | 5795 | 15.36 | 16.00 | No |
| | 802.11ax(HE80) | 155 | 5775 | 15.13 | 16.00 | No |
| Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. | | | | | | |

## 9.7.44 5G WIFI-ANT7-Level7

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 5.2 (5.15~5.25) | 802.11a | 36 | 5180 | 14.40 | 15.00 | No |
| | | 40 | 5200 | 14.20 | 15.00 | No |
| | | 48 | 5240 | 14.14 | 15.00 | No |
| | 802.11n(HT20) | 36 | 5180 | 14.32 | 15.00 | No |
| | | 44 | 5220 | 14.05 | 15.00 | No |
| | | 48 | 5240 | 14.29 | 15.00 | No |
| | 802.11n(HT40) | 38 | 5190 | 10.34 | 11.00 | Yes |
| | | 46 | 5230 | **14.09** | 15.00 | Yes |
| | 802.11ac(VHT20) | 36 | 5180 | 12.34 | 13.00 | No |
| | | 40 | 5200 | 14.25 | 15.00 | No |
| | | 48 | 5240 | 14.35 | 15.00 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 10.30 | 11.00 | No |
| | | 46 | 5230 | 14.34 | 15.00 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 9.70 | 11.00 | No |
| | 802.11ax(HE20) | 36 | 5180 | 14.35 | 15.00 | No |
| | | 40 | 5200 | 14.09 | 15.00 | No |
| | | 48 | 5240 | 14.39 | 15.00 | No |
| | 802.11ax(HE40) | 38 | 5190 | 14.61 | 15.00 | No |
| | | 46 | 5230 | 14.11 | 15.00 | No |
| | 802.11ax(HE80) | 42 | 5210 | 11.99 | 13.00 | No |
| 5.3 (5.25~5.35) | 802.11a | 52 | 5260 | 14.27 | 15.00 | No |
| | | 60 | 5300 | 14.31 | 15.00 | No |
| | | 64 | 5320 | 10.83 | 12.00 | No |
| | 802.11n(HT20) | 52 | 5260 | 14.19 | 15.00 | No |
| | | 60 | 5300 | 14.07 | 15.00 | No |
| | | 64 | 5320 | 10.69 | 12.00 | No |
| | 802.11n(HT40) | 54 | 5270 | **14.00** | 15.00 | Yes |
| | | 62 | 5310 | 9.37 | 10.00 | Yes |
| | 802.11ac(VHT20) | 52 | 5260 | 14.26 | 15.00 | No |
| | | 60 | 5300 | 14.28 | 15.00 | No |
| | | 64 | 5320 | 10.71 | 12.00 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 14.05 | 15.00 | No |
| | | 62 | 5310 | 8.67 | 10.00 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 8.34 | 10.00 | No |
| | 802.11ax(HE20) | 52 | 5260 | 14.25 | 15.00 | No |
| | | 60 | 5300 | 14.29 | 15.00 | No |
| | | 64 | 5320 | 10.79 | 12.00 | No |
| | 802.11ax(HE40) | 54 | 5270 | 14.16 | 15.00 | No |
| | | 62 | 5310 | 9.77 | 11.00 | No |
| | 802.11ax(HE80) | 58 | 5290 | 10.02 | 11.50 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5.6 (5.47~5.725) | 802.11a | 100 | 5500 | 10.74 | 12.00 | No |
| | | 116 | 5580 | 15.76 | 16.50 | No |
| | | 140 | 5700 | 11.28 | 12.00 | No |
| | 802.11n(HT20) | 100 | 5500 | 10.61 | 12.00 | No |
| | | 116 | 5580 | 15.57 | 16.50 | No |
| | | 140 | 5700 | 11.12 | 12.00 | No |
| | 802.11n(HT40) | 102 | 5510 | 6.93 | 8.00 | No |
| | | 118 | 5590 | 15.87 | 16.50 | No |
| | | 134 | 5670 | 7.18 | 8.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 10.62 | 12.00 | No |
| | | 116 | 5580 | 15.65 | 16.50 | No |
| | | 140 | 5700 | 11.13 | 12.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 6.91 | 8.00 | No |
| | | 118 | 5590 | 15.61 | 16.50 | No |
| | | 134 | 5670 | 6.97 | 8.00 | No |
| | 802.11ac(VHT80) | 106 | 5530 | 9.24 | 10.00 | Yes |
| | | 122 | 5610 | **15.77** | 16.50 | Yes |
| | 802.11ax(HE20) | 100 | 5500 | 10.72 | 12.00 | No |
| | | 116 | 5580 | 15.68 | 16.50 | No |
| | | 140 | 5700 | 11.25 | 12.00 | No |
| | 802.11ax(HE40) | 102 | 5510 | 7.14 | 8.00 | No |
| | | 118 | 5590 | 15.83 | 16.50 | No |
| | | 134 | 5670 | 7.36 | 8.00 | No |
| | 802.11ax(HE80) | 106 | 5530 | 8.53 | 10.00 | No |
| | | 122 | 5610 | 15.63 | 16.50 | No |
| 5.8 (5.725~5.85) | 802.11a | 149 | 5745 | 15.10 | 16.00 | No |
| | | 157 | 5785 | 15.31 | 16.00 | No |
| | | 165 | 5825 | 15.07 | 16.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 15.02 | 16.00 | No |
| | | 157 | 5785 | 15.13 | 16.00 | No |
| | | 165 | 5825 | 15.16 | 16.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 15.15 | 16.00 | No |
| | | 159 | 5795 | 15.14 | 16.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 15.09 | 16.00 | No |
| | | 157 | 5785 | 15.14 | 16.00 | No |
| | | 165 | 5825 | 15.35 | 16.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 15.01 | 16.00 | No |
| | | 159 | 5795 | 15.37 | 16.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | **15.91** | 16.00 | Yes |
| | 802.11ax(HE20) | 149 | 5745 | 15.02 | 16.00 | No |
| | | 157 | 5785 | 15.07 | 16.00 | No |
| | | 165 | 5825 | 15.13 | 16.00 | No |
| | 802.11ax(HE40) | 151 | 5755 | 15.14 | 16.00 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 159 | 5795 | 15.36 | 16.00 | No |
| | 802.11ax(HE80) | 155 | 5775 | 15.13 | 16.00 | No |
| Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. | | | | | | |

## 9.7.45 5G WIFI-ANT7-Level8

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 5.2 (5.15~5.25) | 802.11a | 36 | 5180 | 11.24 | 12.00 | No |
| | | 40 | 5200 | 11.17 | 12.00 | No |
| | | 48 | 5240 | 11.33 | 12.00 | No |
| | 802.11n(HT20) | 36 | 5180 | 11.37 | 12.00 | No |
| | | 44 | 5220 | 11.07 | 12.00 | No |
| | | 48 | 5240 | 11.40 | 12.00 | No |
| | 802.11n(HT40) | 38 | 5190 | 10.34 | 11.00 | Yes |
| | | 46 | 5230 | **11.03** | 12.00 | Yes |
| | 802.11ac(VHT20) | 36 | 5180 | 11.22 | 12.00 | No |
| | | 40 | 5200 | 11.15 | 12.00 | No |
| | | 48 | 5240 | 11.20 | 12.00 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 10.30 | 11.00 | No |
| | | 46 | 5230 | 11.07 | 12.00 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 9.70 | 11.00 | No |
| | 802.11ax(HE20) | 36 | 5180 | 11.31 | 12.00 | No |
| | | 40 | 5200 | 11.39 | 12.00 | No |
| | | 48 | 5240 | 11.42 | 12.00 | No |
| | 802.11ax(HE40) | 38 | 5190 | 11.00 | 12.00 | No |
| | | 46 | 5230 | 11.23 | 12.00 | No |
| | 802.11ax(HE80) | 42 | 5210 | 11.38 | 12.00 | No |
| 5.3 (5.25~5.35) | 802.11a | 52 | 5260 | 11.08 | 12.00 | No |
| | | 60 | 5300 | 11.19 | 12.00 | No |
| | | 64 | 5320 | 10.83 | 12.00 | No |
| | 802.11n(HT20) | 52 | 5260 | 11.06 | 12.00 | No |
| | | 60 | 5300 | 11.02 | 12.00 | No |
| | | 64 | 5320 | 10.69 | 12.00 | No |
| | 802.11n(HT40) | 54 | 5270 | **11.00** | 12.00 | Yes |
| | | 62 | 5310 | 9.37 | 10.00 | Yes |
| | 802.11ac(VHT20) | 52 | 5260 | 11.04 | 12.00 | No |
| | | 60 | 5300 | 11.03 | 12.00 | No |
| | | 64 | 5320 | 10.71 | 12.00 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 11.01 | 12.00 | No |
| | | 62 | 5310 | 8.67 | 10.00 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 8.34 | 10.00 | No |
| | 802.11ax(HE20) | 52 | 5260 | 11.32 | 12.00 | No |
| | | 60 | 5300 | 11.19 | 12.00 | No |
| | | 64 | 5320 | 10.79 | 12.00 | No |
| | 802.11ax(HE40) | 54 | 5270 | 11.26 | 12.00 | No |
| | | 62 | 5310 | 9.77 | 11.00 | No |
| | 802.11ax(HE80) | 58 | 5290 | 10.02 | 11.50 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5.6 (5.47~5.725) | 802.11a | 100 | 5500 | 10.74 | 12.00 | No |
| | | 116 | 5580 | 13.07 | 14.00 | No |
| | | 140 | 5700 | 11.28 | 12.00 | No |
| | 802.11n(HT20) | 100 | 5500 | 10.61 | 12.00 | No |
| | | 116 | 5580 | 13.30 | 14.00 | No |
| | | 140 | 5700 | 11.12 | 12.00 | No |
| | 802.11n(HT40) | 102 | 5510 | 6.93 | 8.00 | No |
| | | 118 | 5590 | 13.28 | 14.00 | No |
| | | 134 | 5670 | 7.18 | 8.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 10.62 | 12.00 | No |
| | | 116 | 5580 | 13.12 | 14.00 | No |
| | | 140 | 5700 | 11.13 | 12.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 6.91 | 8.00 | No |
| | | 118 | 5590 | 13.30 | 14.00 | No |
| | | 134 | 5670 | 6.97 | 8.00 | No |
| | 802.11ac(VHT80) | 106 | 5530 | 9.24 | 10.00 | Yes |
| | | 122 | 5610 | **13.32** | 14.00 | Yes |
| | 802.11ax(HE20) | 100 | 5500 | 10.72 | 12.00 | No |
| | | 116 | 5580 | 13.26 | 14.00 | No |
| | | 140 | 5700 | 11.25 | 12.00 | No |
| | 802.11ax(HE40) | 102 | 5510 | 7.14 | 8.00 | No |
| | | 118 | 5590 | 13.30 | 14.00 | No |
| | | 134 | 5670 | 7.36 | 8.00 | No |
| | 802.11ax(HE80) | 106 | 5530 | 8.53 | 10.00 | No |
| | | 122 | 5610 | 13.04 | 14.00 | No |
| 5.8 (5.725~5.85) | 802.11a | 149 | 5745 | 12.01 | 13.00 | No |
| | | 157 | 5785 | 12.04 | 13.00 | No |
| | | 165 | 5825 | 12.38 | 13.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 12.19 | 13.00 | No |
| | | 157 | 5785 | 12.37 | 13.00 | No |
| | | 165 | 5825 | 12.09 | 13.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 12.11 | 13.00 | No |
| | | 159 | 5795 | 12.29 | 13.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 12.09 | 13.00 | No |
| | | 157 | 5785 | 12.40 | 13.00 | No |
| | | 165 | 5825 | 12.38 | 13.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 12.16 | 13.00 | No |
| | | 159 | 5795 | 12.11 | 13.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | **12.90** | 13.00 | Yes |
| | 802.11ax(HE20) | 149 | 5745 | 12.39 | 13.00 | No |
| | | 157 | 5785 | 12.24 | 13.00 | No |
| | | 165 | 5825 | 12.18 | 13.00 | No |
| | 802.11ax(HE40) | 151 | 5755 | 12.22 | 13.00 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 159 | 5795 | 12.35 | 13.00 | No |
| | 802.11ax(HE80) | 155 | 5775 | 12.26 | 13.00 | No |
| Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. | | | | | | |

## 9.7.46 5G WIFI-ANT2&7-Full power

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 5.2 (5.15~5.25) | 802.11a | 36 | 5180 | 17.65 | 18.00 | No |
| | | 40 | 5200 | 21.33 | 22.00 | No |
| | | 48 | 5240 | 21.35 | 22.00 | No |
| | 802.11n(HT20) | 36 | 5180 | 17.47 | 18.00 | No |
| | | 44 | 5220 | 21.15 | 22.00 | No |
| | | 48 | 5240 | 21.25 | 22.00 | No |
| | 802.11n(HT40) | 38 | 5190 | 13.51 | 14.00 | No |
| | | 46 | 5230 | 21.43 | 22.00 | No |
| | 802.11ac(VHT20) | 36 | 5180 | 15.47 | 16.00 | No |
| | | 40 | 5200 | 21.18 | 22.00 | No |
| | | 48 | 5240 | 21.16 | 22.00 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 13.51 | 14.00 | No |
| | | 46 | 5230 | 21.29 | 22.00 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 12.86 | 14.00 | No |
| | 802.11ax(HE20) | 36 | 5180 | 18.75 | 19.00 | No |
| | | 40 | 5200 | 21.60 | 22.00 | No |
| | | 48 | 5240 | 21.58 | 22.00 | No |
| | 802.11ax(HE40) | 38 | 5190 | 17.82 | 18.00 | No |
| | | 46 | 5230 | 21.60 | 22.00 | No |
| | 802.11ax(HE80) | 42 | 5210 | 15.18 | 16.00 | No |
| 5.3 (5.25~5.35) | 802.11a | 52 | 5260 | 21.14 | 22.00 | No |
| | | 60 | 5300 | 21.15 | 22.00 | No |
| | | 64 | 5320 | 14.08 | 15.00 | No |
| | 802.11n(HT20) | 52 | 5260 | 21.02 | 22.00 | No |
| | | 60 | 5300 | 20.98 | 22.00 | No |
| | | 64 | 5320 | 13.95 | 15.00 | No |
| | 802.11n(HT40) | 54 | 5270 | **21.22** | 22.00 | Yes |
| | | 62 | 5310 | 12.01 | 13.00 | Yes |
| | 802.11ac(VHT20) | 52 | 5260 | 21.03 | 22.00 | No |
| | | 60 | 5300 | 20.96 | 22.00 | No |
| | | 64 | 5320 | 13.97 | 15.00 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 21.11 | 22.00 | No |
| | | 62 | 5310 | 12.02 | 13.00 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 11.65 | 13.00 | No |
| | 802.11ax(HE20) | 52 | 5260 | 21.10 | 22.00 | No |
| | | 60 | 5300 | 21.16 | 22.00 | No |
| | | 64 | 5320 | 14.14 | 15.00 | No |
| | 802.11ax(HE40) | 54 | 5270 | 21.21 | 22.00 | No |
| | | 62 | 5310 | 13.18 | 14.00 | No |
| | 802.11ax(HE80) | 58 | 5290 | 13.36 | 14.50 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5.6 (5.47~5.725) | 802.11a | 100 | 5500 | 13.77 | 15.00 | No |
| | | 116 | 5580 | 20.94 | 22.00 | No |
| | | 140 | 5700 | 14.13 | 15.00 | No |
| | 802.11n(HT20) | 100 | 5500 | 13.71 | 15.00 | No |
| | | 116 | 5580 | 20.84 | 22.00 | No |
| | | 140 | 5700 | 13.99 | 15.00 | No |
| | 802.11n(HT40) | 102 | 5510 | 10.03 | 11.00 | No |
| | | 118 | 5590 | 21.10 | 22.00 | No |
| | | 134 | 5670 | 10.06 | 11.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 13.72 | 15.00 | No |
| | | 116 | 5580 | 20.85 | 22.00 | No |
| | | 140 | 5700 | 14.09 | 15.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 10.06 | 11.00 | No |
| | | 118 | 5590 | 21.10 | 22.00 | No |
| | | 134 | 5670 | 10.07 | 11.00 | No |
| | 802.11ac(VHT80) | 106 | 5530 | 11.38 | 13.00 | Yes |
| | | 122 | 5610 | **20.51** | 22.00 | Yes |
| | 802.11ax(HE20) | 100 | 5500 | 13.87 | 15.00 | No |
| | | 116 | 5580 | 21.03 | 22.00 | No |
| | | 140 | 5700 | 14.24 | 15.00 | No |
| | 802.11ax(HE40) | 102 | 5510 | 10.24 | 11.00 | No |
| | | 118 | 5590 | 21.30 | 22.00 | No |
| | | 134 | 5670 | 10.26 | 11.00 | No |
| | 802.11ax(HE80) | 106 | 5530 | 11.66 | 13.00 | No |
| | | 122 | 5610 | 21.26 | 22.00 | No |
| 5.8 (5.725~5.85) | 802.11a | 149 | 5745 | 21.06 | 22.00 | No |
| | | 157 | 5785 | 21.00 | 22.00 | No |
| | | 165 | 5825 | 21.24 | 22.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 21.04 | 22.00 | No |
| | | 157 | 5785 | 20.99 | 22.00 | No |
| | | 165 | 5825 | 21.15 | 22.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 21.16 | 22.00 | No |
| | | 159 | 5795 | 21.21 | 22.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 21.07 | 22.00 | No |
| | | 157 | 5785 | 21.03 | 22.00 | No |
| | | 165 | 5825 | 21.14 | 22.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 21.20 | 22.00 | No |
| | | 159 | 5795 | 21.20 | 22.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | **20.59** | 22.00 | Yes |
| | 802.11ax(HE20) | 149 | 5745 | 21.43 | 22.00 | No |
| | | 157 | 5785 | 21.37 | 22.00 | No |
| | | 165 | 5825 | 21.49 | 22.00 | No |
| | 802.11ax(HE40) | 151 | 5755 | 21.37 | 22.00 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 159 | 5795 | 21.42 | 22.00 | No |
| | 802.11ax(HE80) | 155 | 5775 | 20.99 | 22.00 | No |
| Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. | | | | | | |

## 9.7.47 5G WIFI-ANT2&7-Level1

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 5.2 (5.15~5.25) | 802.11a | 36 | 5180 | 17.65 | 18.00 | No |
| | | 40 | 5200 | 21.33 | 22.00 | No |
| | | 48 | 5240 | 21.35 | 22.00 | No |
| | 802.11n(HT20) | 36 | 5180 | 17.47 | 18.00 | No |
| | | 44 | 5220 | 21.15 | 22.00 | No |
| | | 48 | 5240 | 21.25 | 22.00 | No |
| | 802.11n(HT40) | 38 | 5190 | 13.51 | 14.00 | No |
| | | 46 | 5230 | 21.43 | 22.00 | No |
| | 802.11ac(VHT20) | 36 | 5180 | 15.47 | 16.00 | No |
| | | 40 | 5200 | 21.18 | 22.00 | No |
| | | 48 | 5240 | 21.16 | 22.00 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 13.51 | 14.00 | No |
| | | 46 | 5230 | 21.29 | 22.00 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 12.86 | 14.00 | No |
| | 802.11ax(HE20) | 36 | 5180 | 18.75 | 19.00 | No |
| | | 40 | 5200 | 21.60 | 22.00 | No |
| | | 48 | 5240 | 21.58 | 22.00 | No |
| | 802.11ax(HE40) | 38 | 5190 | 17.82 | 18.00 | No |
| | | 46 | 5230 | 21.60 | 22.00 | No |
| | 802.11ax(HE80) | 42 | 5210 | 15.18 | 16.00 | No |
| 5.3 (5.25~5.35) | 802.11a | 52 | 5260 | 21.14 | 22.00 | No |
| | | 60 | 5300 | 21.15 | 22.00 | No |
| | | 64 | 5320 | 14.08 | 15.00 | No |
| | 802.11n(HT20) | 52 | 5260 | 21.02 | 22.00 | No |
| | | 60 | 5300 | 20.98 | 22.00 | No |
| | | 64 | 5320 | 13.95 | 15.00 | No |
| | 802.11n(HT40) | 54 | 5270 | **21.22** | 22.00 | Yes |
| | | 62 | 5310 | 12.01 | 13.00 | Yes |
| | 802.11ac(VHT20) | 52 | 5260 | 21.03 | 22.00 | No |
| | | 60 | 5300 | 20.96 | 22.00 | No |
| | | 64 | 5320 | 13.97 | 15.00 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 21.11 | 22.00 | No |
| | | 62 | 5310 | 12.02 | 13.00 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 11.65 | 13.00 | No |
| | 802.11ax(HE20) | 52 | 5260 | 21.10 | 22.00 | No |
| | | 60 | 5300 | 21.16 | 22.00 | No |
| | | 64 | 5320 | 14.14 | 15.00 | No |
| | 802.11ax(HE40) | 54 | 5270 | 21.21 | 22.00 | No |
| | | 62 | 5310 | 13.18 | 14.00 | No |
| | 802.11ax(HE80) | 58 | 5290 | 13.36 | 14.50 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5.6 (5.47~5.725) | 802.11a | 100 | 5500 | 13.77 | 15.00 | No |
| | | 116 | 5580 | 20.94 | 22.00 | No |
| | | 140 | 5700 | 14.13 | 15.00 | No |
| | 802.11n(HT20) | 100 | 5500 | 13.71 | 15.00 | No |
| | | 116 | 5580 | 20.84 | 22.00 | No |
| | | 140 | 5700 | 13.99 | 15.00 | No |
| | 802.11n(HT40) | 102 | 5510 | 10.03 | 11.00 | No |
| | | 118 | 5590 | 21.10 | 22.00 | No |
| | | 134 | 5670 | 10.06 | 11.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 13.72 | 15.00 | No |
| | | 116 | 5580 | 20.85 | 22.00 | No |
| | | 140 | 5700 | 14.09 | 15.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 10.06 | 11.00 | No |
| | | 118 | 5590 | 21.10 | 22.00 | No |
| | | 134 | 5670 | 10.07 | 11.00 | No |
| | 802.11ac(VHT80) | 106 | 5530 | 11.38 | 13.00 | Yes |
| | | 122 | 5610 | **20.51** | 22.00 | Yes |
| | 802.11ax(HE20) | 100 | 5500 | 13.87 | 15.00 | No |
| | | 116 | 5580 | 21.03 | 22.00 | No |
| | | 140 | 5700 | 14.24 | 15.00 | No |
| | 802.11ax(HE40) | 102 | 5510 | 10.24 | 11.00 | No |
| | | 118 | 5590 | 21.30 | 22.00 | No |
| | | 134 | 5670 | 10.26 | 11.00 | No |
| | 802.11ax(HE80) | 106 | 5530 | 11.66 | 13.00 | No |
| | | 122 | 5610 | 21.26 | 22.00 | No |
| 5.8 (5.725~5.85) | 802.11a | 149 | 5745 | 21.06 | 22.00 | No |
| | | 157 | 5785 | 21.00 | 22.00 | No |
| | | 165 | 5825 | 21.24 | 22.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 21.04 | 22.00 | No |
| | | 157 | 5785 | 20.99 | 22.00 | No |
| | | 165 | 5825 | 21.15 | 22.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 21.16 | 22.00 | No |
| | | 159 | 5795 | 21.21 | 22.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 21.07 | 22.00 | No |
| | | 157 | 5785 | 21.03 | 22.00 | No |
| | | 165 | 5825 | 21.14 | 22.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 21.20 | 22.00 | No |
| | | 159 | 5795 | 21.20 | 22.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | **20.59** | 22.00 | Yes |
| | 802.11ax(HE20) | 149 | 5745 | 21.43 | 22.00 | No |
| | | 157 | 5785 | 21.37 | 22.00 | No |
| | | 165 | 5825 | 21.49 | 22.00 | No |
| | 802.11ax(HE40) | 151 | 5755 | 21.37 | 22.00 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 159 | 5795 | 21.42 | 22.00 | No |
| | 802.11ax(HE80) | 155 | 5775 | 20.99 | 22.00 | No |
| Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. | | | | | | |

## 9.7.48 5G WIFI-ANT2&7-Level2

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 5.2 (5.15~5.25) | 802.11a | 36 | 5180 | 17.65 | 18.00 | No |
| | | 40 | 5200 | 21.33 | 22.00 | No |
| | | 48 | 5240 | 21.35 | 22.00 | No |
| | 802.11n(HT20) | 36 | 5180 | 17.47 | 18.00 | No |
| | | 44 | 5220 | 21.15 | 22.00 | No |
| | | 48 | 5240 | 21.25 | 22.00 | No |
| | 802.11n(HT40) | 38 | 5190 | 13.51 | 14.00 | No |
| | | 46 | 5230 | 21.43 | 22.00 | No |
| | 802.11ac(VHT20) | 36 | 5180 | 15.47 | 16.00 | No |
| | | 40 | 5200 | 21.18 | 22.00 | No |
| | | 48 | 5240 | 21.16 | 22.00 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 13.51 | 14.00 | No |
| | | 46 | 5230 | 21.29 | 22.00 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 12.86 | 14.00 | No |
| | 802.11ax(HE20) | 36 | 5180 | 18.75 | 19.00 | No |
| | | 40 | 5200 | 21.60 | 22.00 | No |
| | | 48 | 5240 | 21.58 | 22.00 | No |
| | 802.11ax(HE40) | 38 | 5190 | 17.82 | 18.00 | No |
| | | 46 | 5230 | 21.60 | 22.00 | No |
| | 802.11ax(HE80) | 42 | 5210 | 15.18 | 16.00 | No |
| 5.3 (5.25~5.35) | 802.11a | 52 | 5260 | 21.14 | 22.00 | No |
| | | 60 | 5300 | 21.15 | 22.00 | No |
| | | 64 | 5320 | 14.08 | 15.00 | No |
| | 802.11n(HT20) | 52 | 5260 | 21.02 | 22.00 | No |
| | | 60 | 5300 | 20.98 | 22.00 | No |
| | | 64 | 5320 | 13.95 | 15.00 | No |
| | 802.11n(HT40) | 54 | 5270 | **21.22** | 22.00 | Yes |
| | | 62 | 5310 | 12.01 | 13.00 | Yes |
| | 802.11ac(VHT20) | 52 | 5260 | 21.03 | 22.00 | No |
| | | 60 | 5300 | 20.96 | 22.00 | No |
| | | 64 | 5320 | 13.97 | 15.00 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 21.11 | 22.00 | No |
| | | 62 | 5310 | 12.02 | 13.00 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 11.65 | 13.00 | No |
| | 802.11ax(HE20) | 52 | 5260 | 21.10 | 22.00 | No |
| | | 60 | 5300 | 21.16 | 22.00 | No |
| | | 64 | 5320 | 14.14 | 15.00 | No |
| | 802.11ax(HE40) | 54 | 5270 | 21.21 | 22.00 | No |
| | | 62 | 5310 | 13.18 | 14.00 | No |
| | 802.11ax(HE80) | 58 | 5290 | 13.36 | 14.50 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5.6 (5.47~5.725) | 802.11a | 100 | 5500 | 13.77 | 15.00 | No |
| | | 116 | 5580 | 20.02 | 21.00 | No |
| | | 140 | 5700 | 14.13 | 15.00 | No |
| | 802.11n(HT20) | 100 | 5500 | 13.71 | 15.00 | No |
| | | 116 | 5580 | 20.34 | 21.00 | No |
| | | 140 | 5700 | 13.99 | 15.00 | No |
| | 802.11n(HT40) | 102 | 5510 | 10.03 | 11.00 | No |
| | | 118 | 5590 | 20.05 | 21.00 | No |
| | | 134 | 5670 | 10.06 | 11.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 13.72 | 15.00 | No |
| | | 116 | 5580 | 20.14 | 21.00 | No |
| | | 140 | 5700 | 14.09 | 15.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 10.06 | 11.00 | No |
| | | 118 | 5590 | 20.38 | 21.00 | No |
| | | 134 | 5670 | 10.07 | 11.00 | No |
| | 802.11ac(VHT80) | 106 | 5530 | 11.38 | 13.00 | Yes |
| | | 122 | 5610 | **20.04** | 21.00 | Yes |
| | 802.11ax(HE20) | 100 | 5500 | 13.87 | 15.00 | No |
| | | 116 | 5580 | 20.40 | 21.00 | No |
| | | 140 | 5700 | 14.24 | 15.00 | No |
| | 802.11ax(HE40) | 102 | 5510 | 10.24 | 11.00 | No |
| | | 118 | 5590 | 20.11 | 21.00 | No |
| | | 134 | 5670 | 10.26 | 11.00 | No |
| | 802.11ax(HE80) | 106 | 5530 | 11.66 | 13.00 | No |
| | | 122 | 5610 | 20.32 | 21.00 | No |
| 5.8 (5.725~5.85) | 802.11a | 149 | 5745 | 21.06 | 22.00 | No |
| | | 157 | 5785 | 21.00 | 22.00 | No |
| | | 165 | 5825 | 21.24 | 22.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 21.04 | 22.00 | No |
| | | 157 | 5785 | 20.99 | 22.00 | No |
| | | 165 | 5825 | 21.15 | 22.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 21.16 | 22.00 | No |
| | | 159 | 5795 | 21.21 | 22.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 21.07 | 22.00 | No |
| | | 157 | 5785 | 21.03 | 22.00 | No |
| | | 165 | 5825 | 21.14 | 22.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 21.20 | 22.00 | No |
| | | 159 | 5795 | 21.20 | 22.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | **20.59** | 22.00 | Yes |
| | 802.11ax(HE20) | 149 | 5745 | 21.43 | 22.00 | No |
| | | 157 | 5785 | 21.37 | 22.00 | No |
| | | 165 | 5825 | 21.49 | 22.00 | No |
| | 802.11ax(HE40) | 151 | 5755 | 21.37 | 22.00 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 159 | 5795 | 21.42 | 22.00 | No |
| | 802.11ax(HE80) | 155 | 5775 | 20.99 | 22.00 | No |
| Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. | | | | | | |

## 9.7.49 5G WIFI-ANT2&7-Level3

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 5.2 (5.15~5.25) | 802.11a | 36 | 5180 | 17.65 | 18.00 | No |
| | | 40 | 5200 | 21.33 | 22.00 | No |
| | | 48 | 5240 | 21.35 | 22.00 | No |
| | 802.11n(HT20) | 36 | 5180 | 17.47 | 18.00 | No |
| | | 44 | 5220 | 21.15 | 22.00 | No |
| | | 48 | 5240 | 21.25 | 22.00 | No |
| | 802.11n(HT40) | 38 | 5190 | 13.51 | 14.00 | No |
| | | 46 | 5230 | 21.43 | 22.00 | No |
| | 802.11ac(VHT20) | 36 | 5180 | 15.47 | 16.00 | No |
| | | 40 | 5200 | 21.18 | 22.00 | No |
| | | 48 | 5240 | 21.16 | 22.00 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 13.51 | 14.00 | No |
| | | 46 | 5230 | 21.29 | 22.00 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 12.86 | 14.00 | No |
| | 802.11ax(HE20) | 36 | 5180 | 18.75 | 19.00 | No |
| | | 40 | 5200 | 21.60 | 22.00 | No |
| | | 48 | 5240 | 21.58 | 22.00 | No |
| | 802.11ax(HE40) | 38 | 5190 | 17.82 | 18.00 | No |
| | | 46 | 5230 | 21.60 | 22.00 | No |
| | 802.11ax(HE80) | 42 | 5210 | 15.18 | 16.00 | No |
| 5.3 (5.25~5.35) | 802.11a | 52 | 5260 | 21.14 | 22.00 | No |
| | | 60 | 5300 | 21.15 | 22.00 | No |
| | | 64 | 5320 | 14.08 | 15.00 | No |
| | 802.11n(HT20) | 52 | 5260 | 21.02 | 22.00 | No |
| | | 60 | 5300 | 20.98 | 22.00 | No |
| | | 64 | 5320 | 13.95 | 15.00 | No |
| | 802.11n(HT40) | 54 | 5270 | **21.22** | 22.00 | Yes |
| | | 62 | 5310 | 12.01 | 13.00 | Yes |
| | 802.11ac(VHT20) | 52 | 5260 | 21.03 | 22.00 | No |
| | | 60 | 5300 | 20.96 | 22.00 | No |
| | | 64 | 5320 | 13.97 | 15.00 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 21.11 | 22.00 | No |
| | | 62 | 5310 | 12.02 | 13.00 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 11.65 | 13.00 | No |
| | 802.11ax(HE20) | 52 | 5260 | 21.10 | 22.00 | No |
| | | 60 | 5300 | 21.16 | 22.00 | No |
| | | 64 | 5320 | 14.14 | 15.00 | No |
| | 802.11ax(HE40) | 54 | 5270 | 21.21 | 22.00 | No |
| | | 62 | 5310 | 13.18 | 14.00 | No |
| | 802.11ax(HE80) | 58 | 5290 | 13.36 | 14.50 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5.6 (5.47~5.725) | 802.11a | 100 | 5500 | 13.77 | 15.00 | No |
| | | 116 | 5580 | 20.02 | 21.00 | No |
| | | 140 | 5700 | 14.13 | 15.00 | No |
| | 802.11n(HT20) | 100 | 5500 | 13.71 | 15.00 | No |
| | | 116 | 5580 | 20.34 | 21.00 | No |
| | | 140 | 5700 | 13.99 | 15.00 | No |
| | 802.11n(HT40) | 102 | 5510 | 10.03 | 11.00 | No |
| | | 118 | 5590 | 20.05 | 21.00 | No |
| | | 134 | 5670 | 10.06 | 11.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 13.72 | 15.00 | No |
| | | 116 | 5580 | 20.14 | 21.00 | No |
| | | 140 | 5700 | 14.09 | 15.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 10.06 | 11.00 | No |
| | | 118 | 5590 | 20.38 | 21.00 | No |
| | | 134 | 5670 | 10.07 | 11.00 | No |
| | 802.11ac(VHT80) | 106 | 5530 | 11.38 | 13.00 | Yes |
| | | 122 | 5610 | **20.04** | 21.00 | Yes |
| | 802.11ax(HE20) | 100 | 5500 | 13.87 | 15.00 | No |
| | | 116 | 5580 | 20.40 | 21.00 | No |
| | | 140 | 5700 | 14.24 | 15.00 | No |
| | 802.11ax(HE40) | 102 | 5510 | 10.24 | 11.00 | No |
| | | 118 | 5590 | 20.11 | 21.00 | No |
| | | 134 | 5670 | 10.26 | 11.00 | No |
| | 802.11ax(HE80) | 106 | 5530 | 11.66 | 13.00 | No |
| | | 122 | 5610 | 20.32 | 21.00 | No |
| 5.8 (5.725~5.85) | 802.11a | 149 | 5745 | 20.65 | 21.00 | No |
| | | 157 | 5785 | 20.53 | 21.00 | No |
| | | 165 | 5825 | 20.36 | 21.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 20.54 | 21.00 | No |
| | | 157 | 5785 | 20.44 | 21.00 | No |
| | | 165 | 5825 | 20.60 | 21.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 20.35 | 21.00 | No |
| | | 159 | 5795 | 20.30 | 21.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 20.31 | 21.00 | No |
| | | 157 | 5785 | 20.54 | 21.00 | No |
| | | 165 | 5825 | 20.57 | 21.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 20.67 | 21.00 | No |
| | | 159 | 5795 | 20.34 | 21.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | **20.66** | 21.00 | Yes |
| | 802.11ax(HE20) | 149 | 5745 | 20.32 | 21.00 | No |
| | | 157 | 5785 | 20.34 | 21.00 | No |
| | | 165 | 5825 | 20.54 | 21.00 | No |
| | 802.11ax(HE40) | 151 | 5755 | 20.60 | 21.00 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 159 | 5795 | 20.50 | 21.00 | No |
| | 802.11ax(HE80) | 155 | 5775 | 20.67 | 21.00 | No |
| Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. | | | | | | |

## 9.7.50 5G WIFI-ANT2&7-Level4

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 5.2 (5.15~5.25) | 802.11a | 36 | 5180 | 17.09 | 17.50 | No |
| | | 40 | 5200 | 16.86 | 17.50 | No |
| | | 48 | 5240 | 16.93 | 17.50 | No |
| | 802.11n(HT20) | 36 | 5180 | 17.06 | 17.50 | No |
| | | 44 | 5220 | 16.95 | 17.50 | No |
| | | 48 | 5240 | 16.98 | 17.50 | No |
| | 802.11n(HT40) | 38 | 5190 | 13.51 | 14.00 | No |
| | | 46 | 5230 | 17.11 | 17.50 | No |
| | 802.11ac(VHT20) | 36 | 5180 | 15.47 | 16.00 | No |
| | | 40 | 5200 | 16.94 | 17.50 | No |
| | | 48 | 5240 | 17.14 | 17.50 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 13.51 | 14.00 | No |
| | | 46 | 5230 | 16.84 | 17.50 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 12.86 | 14.00 | No |
| | 802.11ax(HE20) | 36 | 5180 | 16.99 | 17.50 | No |
| | | 40 | 5200 | 16.80 | 17.50 | No |
| | | 48 | 5240 | 17.10 | 17.50 | No |
| | 802.11ax(HE40) | 38 | 5190 | 16.90 | 17.50 | No |
| | | 46 | 5230 | 16.87 | 17.50 | No |
| | 802.11ax(HE80) | 42 | 5210 | 15.18 | 16.00 | No |
| 5.3 (5.25~5.35) | 802.11a | 52 | 5260 | 17.02 | 17.50 | No |
| | | 60 | 5300 | 17.10 | 17.50 | No |
| | | 64 | 5320 | 14.08 | 15.00 | No |
| | 802.11n(HT20) | 52 | 5260 | 16.94 | 17.50 | No |
| | | 60 | 5300 | 17.02 | 17.50 | No |
| | | 64 | 5320 | 13.95 | 15.00 | No |
| | 802.11n(HT40) | 54 | 5270 | **17.01** | 17.50 | Yes |
| | | 62 | 5310 | 12.01 | 13.00 | Yes |
| | 802.11ac(VHT20) | 52 | 5260 | 16.84 | 17.50 | No |
| | | 60 | 5300 | 17.15 | 17.50 | No |
| | | 64 | 5320 | 13.97 | 15.00 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 16.90 | 17.50 | No |
| | | 62 | 5310 | 12.02 | 13.00 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 11.65 | 13.00 | No |
| | 802.11ax(HE20) | 52 | 5260 | 16.84 | 17.50 | No |
| | | 60 | 5300 | 17.16 | 17.50 | No |
| | | 64 | 5320 | 14.14 | 15.00 | No |
| | 802.11ax(HE40) | 54 | 5270 | 17.19 | 17.50 | No |
| | | 62 | 5310 | 13.18 | 14.00 | No |
| | 802.11ax(HE80) | 58 | 5290 | 13.36 | 14.50 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5.6 (5.47~5.725) | 802.11a | 100 | 5500 | 13.77 | 15.00 | No |
| | | 116 | 5580 | 15.83 | 16.50 | No |
| | | 140 | 5700 | 14.13 | 15.00 | No |
| | 802.11n(HT20) | 100 | 5500 | 13.71 | 15.00 | No |
| | | 116 | 5580 | 16.17 | 16.50 | No |
| | | 140 | 5700 | 13.99 | 15.00 | No |
| | 802.11n(HT40) | 102 | 5510 | 10.03 | 11.00 | No |
| | | 118 | 5590 | 15.82 | 16.50 | No |
| | | 134 | 5670 | 10.06 | 11.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 13.72 | 15.00 | No |
| | | 116 | 5580 | 15.91 | 16.50 | No |
| | | 140 | 5700 | 14.09 | 15.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 10.06 | 11.00 | No |
| | | 118 | 5590 | 15.88 | 16.50 | No |
| | | 134 | 5670 | 10.07 | 11.00 | No |
| | 802.11ac(VHT80) | 106 | 5530 | 11.38 | 13.00 | Yes |
| | | 122 | 5610 | **16.08** | 16.50 | Yes |
| | 802.11ax(HE20) | 100 | 5500 | 13.87 | 15.00 | No |
| | | 116 | 5580 | 15.97 | 16.50 | No |
| | | 140 | 5700 | 14.24 | 15.00 | No |
| | 802.11ax(HE40) | 102 | 5510 | 10.24 | 11.00 | No |
| | | 118 | 5590 | 16.10 | 16.50 | No |
| | | 134 | 5670 | 10.26 | 11.00 | No |
| | 802.11ax(HE80) | 106 | 5530 | 11.66 | 13.00 | No |
| | | 122 | 5610 | 16.17 | 16.50 | No |
| 5.8 (5.725~5.85) | 802.11a | 149 | 5745 | 16.54 | 17.00 | No |
| | | 157 | 5785 | 16.57 | 17.00 | No |
| | | 165 | 5825 | 16.69 | 17.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 16.53 | 17.00 | No |
| | | 157 | 5785 | 16.47 | 17.00 | No |
| | | 165 | 5825 | 16.49 | 17.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 16.44 | 17.00 | No |
| | | 159 | 5795 | 16.59 | 17.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 16.41 | 17.00 | No |
| | | 157 | 5785 | 16.61 | 17.00 | No |
| | | 165 | 5825 | 16.55 | 17.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 16.65 | 17.00 | No |
| | | 159 | 5795 | 16.51 | 17.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | **16.62** | 17.00 | Yes |
| | 802.11ax(HE20) | 149 | 5745 | 16.66 | 17.00 | No |
| | | 157 | 5785 | 16.33 | 17.00 | No |
| | | 165 | 5825 | 16.34 | 17.00 | No |
| | 802.11ax(HE40) | 151 | 5755 | 16.58 | 17.00 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 159 | 5795 | 16.68 | 17.00 | No |
| | 802.11ax(HE80) | 155 | 5775 | 16.47 | 17.00 | No |
| Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. | | | | | | |

## 9.7.51 5G WIFI-ANT2&7-Level5

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 5.2 (5.15~5.25) | 802.11a | 36 | 5180 | 17.65 | 18.00 | No |
| | | 40 | 5200 | 21.33 | 22.00 | No |
| | | 48 | 5240 | 21.35 | 22.00 | No |
| | 802.11n(HT20) | 36 | 5180 | 17.47 | 18.00 | No |
| | | 44 | 5220 | 21.15 | 22.00 | No |
| | | 48 | 5240 | 21.25 | 22.00 | No |
| | 802.11n(HT40) | 38 | 5190 | 13.51 | 14.00 | Yes |
| | | 46 | 5230 | **21.43** | 22.00 | Yes |
| | 802.11ac(VHT20) | 36 | 5180 | 15.47 | 16.00 | No |
| | | 40 | 5200 | 21.18 | 22.00 | No |
| | | 48 | 5240 | 21.16 | 22.00 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 13.51 | 14.00 | No |
| | | 46 | 5230 | 21.29 | 22.00 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 12.86 | 14.00 | No |
| | 802.11ax(HE20) | 36 | 5180 | 18.75 | 19.00 | No |
| | | 40 | 5200 | 21.60 | 22.00 | No |
| | | 48 | 5240 | 21.58 | 22.00 | No |
| | 802.11ax(HE40) | 38 | 5190 | 17.82 | 18.00 | No |
| | | 46 | 5230 | 21.60 | 22.00 | No |
| | 802.11ax(HE80) | 42 | 5210 | 15.18 | 16.00 | No |
| 5.3 (5.25~5.35) | 802.11a | 52 | 5260 | 21.14 | 22.00 | No |
| | | 60 | 5300 | 21.15 | 22.00 | No |
| | | 64 | 5320 | 14.08 | 15.00 | No |
| | 802.11n(HT20) | 52 | 5260 | 21.02 | 22.00 | No |
| | | 60 | 5300 | 20.98 | 22.00 | No |
| | | 64 | 5320 | 13.95 | 15.00 | No |
| | 802.11n(HT40) | 54 | 5270 | **21.22** | 22.00 | Yes |
| | | 62 | 5310 | 12.01 | 13.00 | Yes |
| | 802.11ac(VHT20) | 52 | 5260 | 21.03 | 22.00 | No |
| | | 60 | 5300 | 20.96 | 22.00 | No |
| | | 64 | 5320 | 13.97 | 15.00 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 21.11 | 22.00 | No |
| | | 62 | 5310 | 12.02 | 13.00 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 11.65 | 13.00 | No |
| | 802.11ax(HE20) | 52 | 5260 | 21.10 | 22.00 | No |
| | | 60 | 5300 | 21.16 | 22.00 | No |
| | | 64 | 5320 | 14.14 | 15.00 | No |
| | 802.11ax(HE40) | 54 | 5270 | 21.21 | 22.00 | No |
| | | 62 | 5310 | 13.18 | 14.00 | No |
| | 802.11ax(HE80) | 58 | 5290 | 13.36 | 14.50 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5.6 (5.47~5.725) | 802.11a | 100 | 5500 | 13.77 | 15.00 | No |
| | | 116 | 5580 | 20.94 | 22.00 | No |
| | | 140 | 5700 | 14.13 | 15.00 | No |
| | 802.11n(HT20) | 100 | 5500 | 13.71 | 15.00 | No |
| | | 116 | 5580 | 20.84 | 22.00 | No |
| | | 140 | 5700 | 13.99 | 15.00 | No |
| | 802.11n(HT40) | 102 | 5510 | 10.03 | 11.00 | No |
| | | 118 | 5590 | 21.10 | 22.00 | No |
| | | 134 | 5670 | 10.06 | 11.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 13.72 | 15.00 | No |
| | | 116 | 5580 | 20.85 | 22.00 | No |
| | | 140 | 5700 | 14.09 | 15.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 10.06 | 11.00 | No |
| | | 118 | 5590 | 21.10 | 22.00 | No |
| | | 134 | 5670 | 10.07 | 11.00 | No |
| | 802.11ac(VHT80) | 106 | 5530 | 11.38 | 13.00 | Yes |
| | | 122 | 5610 | **20.51** | 22.00 | Yes |
| | 802.11ax(HE20) | 100 | 5500 | 13.87 | 15.00 | No |
| | | 116 | 5580 | 21.03 | 22.00 | No |
| | | 140 | 5700 | 14.24 | 15.00 | No |
| | 802.11ax(HE40) | 102 | 5510 | 10.24 | 11.00 | No |
| | | 118 | 5590 | 21.30 | 22.00 | No |
| | | 134 | 5670 | 10.26 | 11.00 | No |
| | 802.11ax(HE80) | 106 | 5530 | 11.66 | 13.00 | No |
| | | 122 | 5610 | 21.26 | 22.00 | No |
| 5.8 (5.725~5.85) | 802.11a | 149 | 5745 | 21.06 | 22.00 | No |
| | | 157 | 5785 | 21.00 | 22.00 | No |
| | | 165 | 5825 | 21.24 | 22.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 21.04 | 22.00 | No |
| | | 157 | 5785 | 20.99 | 22.00 | No |
| | | 165 | 5825 | 21.15 | 22.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 21.16 | 22.00 | No |
| | | 159 | 5795 | 21.21 | 22.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 21.07 | 22.00 | No |
| | | 157 | 5785 | 21.03 | 22.00 | No |
| | | 165 | 5825 | 21.14 | 22.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 21.20 | 22.00 | No |
| | | 159 | 5795 | 21.20 | 22.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | **20.59** | 22.00 | Yes |
| | 802.11ax(HE20) | 149 | 5745 | 21.43 | 22.00 | No |
| | | 157 | 5785 | 21.37 | 22.00 | No |
| | | 165 | 5825 | 21.49 | 22.00 | No |
| | 802.11ax(HE40) | 151 | 5755 | 21.37 | 22.00 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 159 | 5795 | 21.42 | 22.00 | No |
| | 802.11ax(HE80) | 155 | 5775 | 20.99 | 22.00 | No |
| Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. | | | | | | |

## 9.7.52 5G WIFI-ANT2&7-Level6

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 5.2 (5.15~5.25) | 802.11a | 36 | 5180 | 17.65 | 18.00 | No |
| | | 40 | 5200 | 17.64 | 18.00 | No |
| | | 48 | 5240 | 17.38 | 18.00 | No |
| | 802.11n(HT20) | 36 | 5180 | 17.47 | 18.00 | No |
| | | 44 | 5220 | 17.30 | 18.00 | No |
| | | 48 | 5240 | 17.51 | 18.00 | No |
| | 802.11n(HT40) | 38 | 5190 | 13.51 | 14.00 | Yes |
| | | 46 | 5230 | **17.60** | 18.00 | Yes |
| | 802.11ac(VHT20) | 36 | 5180 | 15.47 | 16.00 | No |
| | | 40 | 5200 | 17.59 | 18.00 | No |
| | | 48 | 5240 | 17.48 | 18.00 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 13.51 | 14.00 | No |
| | | 46 | 5230 | 17.38 | 18.00 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 12.86 | 14.00 | No |
| | 802.11ax(HE20) | 36 | 5180 | 17.44 | 18.00 | No |
| | | 40 | 5200 | 17.40 | 18.00 | No |
| | | 48 | 5240 | 17.63 | 18.00 | No |
| | 802.11ax(HE40) | 38 | 5190 | 17.82 | 18.00 | No |
| | | 46 | 5230 | 17.52 | 18.00 | No |
| | 802.11ax(HE80) | 42 | 5210 | 15.18 | 16.00 | No |
| 5.3 (5.25~5.35) | 802.11a | 52 | 5260 | 17.68 | 18.00 | No |
| | | 60 | 5300 | 17.42 | 18.00 | No |
| | | 64 | 5320 | 14.08 | 15.00 | No |
| | 802.11n(HT20) | 52 | 5260 | 17.59 | 18.00 | No |
| | | 60 | 5300 | 17.64 | 18.00 | No |
| | | 64 | 5320 | 13.95 | 15.00 | No |
| | 802.11n(HT40) | 54 | 5270 | **17.49** | 18.00 | Yes |
| | | 62 | 5310 | 12.01 | 13.00 | Yes |
| | 802.11ac(VHT20) | 52 | 5260 | 17.41 | 18.00 | No |
| | | 60 | 5300 | 17.56 | 18.00 | No |
| | | 64 | 5320 | 13.97 | 15.00 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 17.65 | 18.00 | No |
| | | 62 | 5310 | 12.02 | 13.00 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 11.65 | 13.00 | No |
| | 802.11ax(HE20) | 52 | 5260 | 17.51 | 18.00 | No |
| | | 60 | 5300 | 17.49 | 18.00 | No |
| | | 64 | 5320 | 14.14 | 15.00 | No |
| | 802.11ax(HE40) | 54 | 5270 | 17.41 | 18.00 | No |
| | | 62 | 5310 | 13.18 | 14.00 | No |
| | 802.11ax(HE80) | 58 | 5290 | 13.36 | 14.50 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5.6 (5.47~5.725) | 802.11a | 100 | 5500 | 13.77 | 15.00 | No |
| | | 116 | 5580 | 18.97 | 19.50 | No |
| | | 140 | 5700 | 14.13 | 15.00 | No |
| | 802.11n(HT20) | 100 | 5500 | 13.71 | 15.00 | No |
| | | 116 | 5580 | 19.20 | 19.50 | No |
| | | 140 | 5700 | 13.99 | 15.00 | No |
| | 802.11n(HT40) | 102 | 5510 | 10.03 | 11.00 | No |
| | | 118 | 5590 | 18.84 | 19.50 | No |
| | | 134 | 5670 | 10.06 | 11.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 13.72 | 15.00 | No |
| | | 116 | 5580 | 19.18 | 19.50 | No |
| | | 140 | 5700 | 14.09 | 15.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 10.06 | 11.00 | No |
| | | 118 | 5590 | 18.93 | 19.50 | No |
| | | 134 | 5670 | 10.07 | 11.00 | No |
| | 802.11ac(VHT80) | 106 | 5530 | 11.38 | 13.00 | Yes |
| | | 122 | 5610 | **19.17** | 19.50 | Yes |
| | 802.11ax(HE20) | 100 | 5500 | 13.87 | 15.00 | No |
| | | 116 | 5580 | 18.99 | 19.50 | No |
| | | 140 | 5700 | 14.24 | 15.00 | No |
| | 802.11ax(HE40) | 102 | 5510 | 10.24 | 11.00 | No |
| | | 118 | 5590 | 19.09 | 19.50 | No |
| | | 134 | 5670 | 10.26 | 11.00 | No |
| | 802.11ax(HE80) | 106 | 5530 | 11.66 | 13.00 | No |
| | | 122 | 5610 | 19.15 | 19.50 | No |
| 5.8 (5.725~5.85) | 802.11a | 149 | 5745 | 18.44 | 19.00 | No |
| | | 157 | 5785 | 18.44 | 19.00 | No |
| | | 165 | 5825 | 18.44 | 19.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 18.48 | 19.00 | No |
| | | 157 | 5785 | 18.51 | 19.00 | No |
| | | 165 | 5825 | 18.43 | 19.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 18.36 | 19.00 | No |
| | | 159 | 5795 | 18.37 | 19.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 18.66 | 19.00 | No |
| | | 157 | 5785 | 18.55 | 19.00 | No |
| | | 165 | 5825 | 18.46 | 19.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 18.34 | 19.00 | No |
| | | 159 | 5795 | 18.59 | 19.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | **18.86** | 19.00 | Yes |
| | 802.11ax(HE20) | 149 | 5745 | 18.30 | 19.00 | No |
| | | 157 | 5785 | 18.34 | 19.00 | No |
| | | 165 | 5825 | 18.41 | 19.00 | No |
| | 802.11ax(HE40) | 151 | 5755 | 18.70 | 19.00 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 159 | 5795 | 18.46 | 19.00 | No |
| | 802.11ax(HE80) | 155 | 5775 | 18.62 | 19.00 | No |
| Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. | | | | | | |

## 9.7.53 5G WIFI-ANT2&7-Level7

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 5.2 (5.15~5.25) | 802.11a | 36 | 5180 | 17.65 | 18.00 | No |
| | | 40 | 5200 | 17.64 | 18.00 | No |
| | | 48 | 5240 | 17.38 | 18.00 | No |
| | 802.11n(HT20) | 36 | 5180 | 17.47 | 18.00 | No |
| | | 44 | 5220 | 17.30 | 18.00 | No |
| | | 48 | 5240 | 17.51 | 18.00 | No |
| | 802.11n(HT40) | 38 | 5190 | 13.51 | 14.00 | Yes |
| | | 46 | 5230 | **17.60** | 18.00 | Yes |
| | 802.11ac(VHT20) | 36 | 5180 | 15.47 | 16.00 | No |
| | | 40 | 5200 | 17.59 | 18.00 | No |
| | | 48 | 5240 | 17.48 | 18.00 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 13.51 | 14.00 | No |
| | | 46 | 5230 | 17.38 | 18.00 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 12.86 | 14.00 | No |
| | 802.11ax(HE20) | 36 | 5180 | 17.44 | 18.00 | No |
| | | 40 | 5200 | 17.40 | 18.00 | No |
| | | 48 | 5240 | 17.63 | 18.00 | No |
| | 802.11ax(HE40) | 38 | 5190 | 17.82 | 18.00 | No |
| | | 46 | 5230 | 17.52 | 18.00 | No |
| | 802.11ax(HE80) | 42 | 5210 | 15.18 | 16.00 | No |
| 5.3 (5.25~5.35) | 802.11a | 52 | 5260 | 17.68 | 18.00 | No |
| | | 60 | 5300 | 17.42 | 18.00 | No |
| | | 64 | 5320 | 14.08 | 15.00 | No |
| | 802.11n(HT20) | 52 | 5260 | 17.59 | 18.00 | No |
| | | 60 | 5300 | 17.64 | 18.00 | No |
| | | 64 | 5320 | 13.95 | 15.00 | No |
| | 802.11n(HT40) | 54 | 5270 | **17.49** | 18.00 | Yes |
| | | 62 | 5310 | 12.01 | 13.00 | Yes |
| | 802.11ac(VHT20) | 52 | 5260 | 17.41 | 18.00 | No |
| | | 60 | 5300 | 17.56 | 18.00 | No |
| | | 64 | 5320 | 13.97 | 15.00 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 17.65 | 18.00 | No |
| | | 62 | 5310 | 12.02 | 13.00 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 11.65 | 13.00 | No |
| | 802.11ax(HE20) | 52 | 5260 | 17.51 | 18.00 | No |
| | | 60 | 5300 | 17.49 | 18.00 | No |
| | | 64 | 5320 | 14.14 | 15.00 | No |
| | 802.11ax(HE40) | 54 | 5270 | 17.41 | 18.00 | No |
| | | 62 | 5310 | 13.18 | 14.00 | No |
| | 802.11ax(HE80) | 58 | 5290 | 13.36 | 14.50 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5.6 (5.47~5.725) | 802.11a | 100 | 5500 | 13.77 | 15.00 | No |
| | | 116 | 5580 | 18.97 | 19.50 | No |
| | | 140 | 5700 | 14.13 | 15.00 | No |
| | 802.11n(HT20) | 100 | 5500 | 13.71 | 15.00 | No |
| | | 116 | 5580 | 19.20 | 19.50 | No |
| | | 140 | 5700 | 13.99 | 15.00 | No |
| | 802.11n(HT40) | 102 | 5510 | 10.03 | 11.00 | No |
| | | 118 | 5590 | 18.84 | 19.50 | No |
| | | 134 | 5670 | 10.06 | 11.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 13.72 | 15.00 | No |
| | | 116 | 5580 | 19.18 | 19.50 | No |
| | | 140 | 5700 | 14.09 | 15.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 10.06 | 11.00 | No |
| | | 118 | 5590 | 18.93 | 19.50 | No |
| | | 134 | 5670 | 10.07 | 11.00 | No |
| | 802.11ac(VHT80) | 106 | 5530 | 11.38 | 13.00 | Yes |
| | | 122 | 5610 | **19.17** | 19.50 | Yes |
| | 802.11ax(HE20) | 100 | 5500 | 13.87 | 15.00 | No |
| | | 116 | 5580 | 18.99 | 19.50 | No |
| | | 140 | 5700 | 14.24 | 15.00 | No |
| | 802.11ax(HE40) | 102 | 5510 | 10.24 | 11.00 | No |
| | | 118 | 5590 | 19.09 | 19.50 | No |
| | | 134 | 5670 | 10.26 | 11.00 | No |
| | 802.11ax(HE80) | 106 | 5530 | 11.66 | 13.00 | No |
| | | 122 | 5610 | 19.15 | 19.50 | No |
| 5.8 (5.725~5.85) | 802.11a | 149 | 5745 | 18.44 | 19.00 | No |
| | | 157 | 5785 | 18.44 | 19.00 | No |
| | | 165 | 5825 | 18.44 | 19.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 18.48 | 19.00 | No |
| | | 157 | 5785 | 18.51 | 19.00 | No |
| | | 165 | 5825 | 18.43 | 19.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 18.36 | 19.00 | No |
| | | 159 | 5795 | 18.37 | 19.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 18.66 | 19.00 | No |
| | | 157 | 5785 | 18.55 | 19.00 | No |
| | | 165 | 5825 | 18.46 | 19.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 18.34 | 19.00 | No |
| | | 159 | 5795 | 18.59 | 19.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | **18.86** | 19.00 | Yes |
| | 802.11ax(HE20) | 149 | 5745 | 18.30 | 19.00 | No |
| | | 157 | 5785 | 18.34 | 19.00 | No |
| | | 165 | 5825 | 18.41 | 19.00 | No |
| | 802.11ax(HE40) | 151 | 5755 | 18.70 | 19.00 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 159 | 5795 | 18.46 | 19.00 | No |
| | 802.11ax(HE80) | 155 | 5775 | 18.62 | 19.00 | No |
| Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. | | | | | | |

## 9.7.54 5G WIFI-ANT2&7-Level8

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Tune-up Limit (dBm) | SAR Test Require. |
|---|---|---|---|---|---|---|
| 5.2 (5.15~5.25) | 802.11a | 36 | 5180 | 14.35 | 15.00 | No |
| | | 40 | 5200 | 14.63 | 15.00 | No |
| | | 48 | 5240 | 14.34 | 15.00 | No |
| | 802.11n(HT20) | 36 | 5180 | 14.54 | 15.00 | No |
| | | 44 | 5220 | 14.64 | 15.00 | No |
| | | 48 | 5240 | 14.36 | 15.00 | No |
| | 802.11n(HT40) | 38 | 5190 | 13.51 | 14.00 | Yes |
| | | 46 | 5230 | **14.44** | 15.00 | Yes |
| | 802.11ac(VHT20) | 36 | 5180 | 14.52 | 15.00 | No |
| | | 40 | 5200 | 14.38 | 15.00 | No |
| | | 48 | 5240 | 14.51 | 15.00 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 13.51 | 14.00 | No |
| | | 46 | 5230 | 14.43 | 15.00 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 12.86 | 14.00 | No |
| | 802.11ax(HE20) | 36 | 5180 | 14.40 | 15.00 | No |
| | | 40 | 5200 | 14.36 | 15.00 | No |
| | | 48 | 5240 | 14.42 | 15.00 | No |
| | 802.11ax(HE40) | 38 | 5190 | 14.43 | 15.00 | No |
| | | 46 | 5230 | 14.61 | 15.00 | No |
| | 802.11ax(HE80) | 42 | 5210 | 14.31 | 15.00 | No |
| 5.3 (5.25~5.35) | 802.11a | 52 | 5260 | 14.62 | 15.00 | No |
| | | 60 | 5300 | 14.67 | 15.00 | No |
| | | 64 | 5320 | 14.08 | 15.00 | No |
| | 802.11n(HT20) | 52 | 5260 | 14.42 | 15.00 | No |
| | | 60 | 5300 | 14.41 | 15.00 | No |
| | | 64 | 5320 | 13.95 | 15.00 | No |
| | 802.11n(HT40) | 54 | 5270 | **14.63** | 15.00 | Yes |
| | | 62 | 5310 | 12.01 | 13.00 | Yes |
| | 802.11ac(VHT20) | 52 | 5260 | 14.38 | 15.00 | No |
| | | 60 | 5300 | 14.46 | 15.00 | No |
| | | 64 | 5320 | 13.97 | 15.00 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 14.69 | 15.00 | No |
| | | 62 | 5310 | 12.02 | 13.00 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 11.65 | 13.00 | No |
| | 802.11ax(HE20) | 52 | 5260 | 14.57 | 15.00 | No |
| | | 60 | 5300 | 14.38 | 15.00 | No |
| | | 64 | 5320 | 14.14 | 15.00 | No |
| | 802.11ax(HE40) | 54 | 5270 | 14.39 | 15.00 | No |
| | | 62 | 5310 | 13.18 | 14.00 | No |
| | 802.11ax(HE80) | 58 | 5290 | 13.36 | 14.50 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5.6 (5.47~5.725) | 802.11a | 100 | 5500 | 13.77 | 15.00 | No |
| | | 116 | 5580 | 16.49 | 17.00 | No |
| | | 140 | 5700 | 14.13 | 15.00 | No |
| | 802.11n(HT20) | 100 | 5500 | 13.71 | 15.00 | No |
| | | 116 | 5580 | 16.62 | 17.00 | No |
| | | 140 | 5700 | 13.99 | 15.00 | No |
| | 802.11n(HT40) | 102 | 5510 | 10.03 | 11.00 | No |
| | | 118 | 5590 | 16.55 | 17.00 | No |
| | | 134 | 5670 | 10.06 | 11.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 13.72 | 15.00 | No |
| | | 116 | 5580 | 16.41 | 17.00 | No |
| | | 140 | 5700 | 14.09 | 15.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 10.06 | 11.00 | No |
| | | 118 | 5590 | 16.69 | 17.00 | No |
| | | 134 | 5670 | 10.07 | 11.00 | No |
| | 802.11ac(VHT80) | 106 | 5530 | 11.38 | 13.00 | Yes |
| | | 122 | 5610 | **16.46** | 17.00 | Yes |
| | 802.11ax(HE20) | 100 | 5500 | 13.87 | 15.00 | No |
| | | 116 | 5580 | 16.69 | 17.00 | No |
| | | 140 | 5700 | 14.24 | 15.00 | No |
| | 802.11ax(HE40) | 102 | 5510 | 10.24 | 11.00 | No |
| | | 118 | 5590 | 16.32 | 17.00 | No |
| | | 134 | 5670 | 10.26 | 11.00 | No |
| | 802.11ax(HE80) | 106 | 5530 | 11.66 | 13.00 | No |
| | | 122 | 5610 | 16.60 | 17.00 | No |
| 5.8 (5.725~5.85) | 802.11a | 149 | 5745 | 15.41 | 16.00 | No |
| | | 157 | 5785 | 15.47 | 16.00 | No |
| | | 165 | 5825 | 15.48 | 16.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 15.38 | 16.00 | No |
| | | 157 | 5785 | 15.31 | 16.00 | No |
| | | 165 | 5825 | 15.34 | 16.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 15.64 | 16.00 | No |
| | | 159 | 5795 | 15.54 | 16.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 15.67 | 16.00 | No |
| | | 157 | 5785 | 15.44 | 16.00 | No |
| | | 165 | 5825 | 15.63 | 16.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 15.62 | 16.00 | No |
| | | 159 | 5795 | 15.62 | 16.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | **15.64** | 16.00 | Yes |
| | 802.11ax(HE20) | 149 | 5745 | 15.32 | 16.00 | No |
| | | 157 | 5785 | 15.56 | 16.00 | No |
| | | 165 | 5825 | 15.46 | 16.00 | No |
| | 802.11ax(HE40) | 151 | 5755 | 15.34 | 16.00 | No |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 159 | 5795 | 15.69 | 16.00 | No |
| | 802.11ax(HE80) | 155 | 5775 | 15.39 | 16.00 | No |
| Note: When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR. | | | | | | |

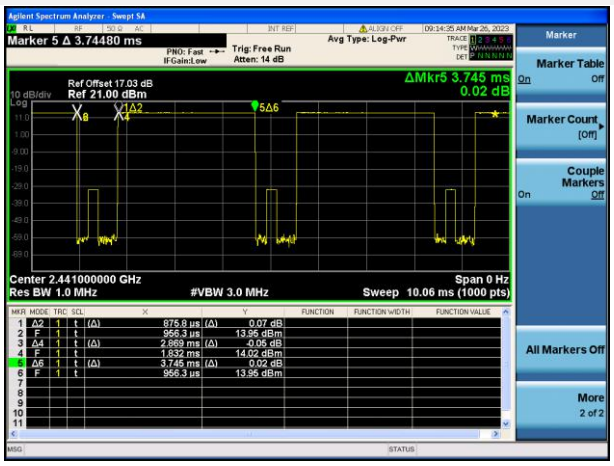
## 9.8 Bluetooth

| Mode | GFSK | | | π/4-DQPSK | | |
|---|---|---|---|---|---|---|
| Channel | 0 | 39 | 78 | 0 | 39 | 78 |
| Frequency (MHz) | 2402 | 2441 | 2480 | 2402 | 2441 | 2480 |
| Average Power (dBm) | 13.65 | 13.75 | **14.15** | 11.06 | 11.09 | 11.44 |
| Tune-Up Limit (dBm) | 15.00 | 15.00 | 15.00 | 13.00 | 13.00 | 13.00 |
| SAR Test Require | Yes | Yes | Yes | No | No | No |
| Mode | 8-DPSK | | | / | | |
| Channel | 0 | 39 | 78 | / | / | / |
| Frequency (MHz) | 2402 | 2441 | 2480 | / | / | / |
| Average Power (dBm) | 11.14 | 11.03 | 11.36 | / | / | / |
| Tune-Up Limit (dBm) | 13.00 | 13.00 | 13.00 | / | / | / |
| SAR Test Require | No | No | No | / | / | / |
| Mode | BLE-1Mbps | | | BLE-2Mbps | | |
| Channel | 0 | 19 | 39 | 0 | 19 | 39 |
| Frequency (MHz) | 2402 | 2440 | 2480 | 2402 | 2440 | 2480 |
| Average Power (dBm) | 5.11 | 5.30 | 5.23 | 5.06 | 5.45 | 5.49 |
| Tune-Up Limit (dBm) | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| SAR Test Require | No | No | No | No | No | No |
| Note: Since Bluetooth BR mode is the maximum output power mode，SAR measurements were performed with test software using DH5 modulation, and SAR measurement is not required for the EDR and LE. When the secondary mode is ≤ ¼ dB higher than the primary mode. | | | | | | |

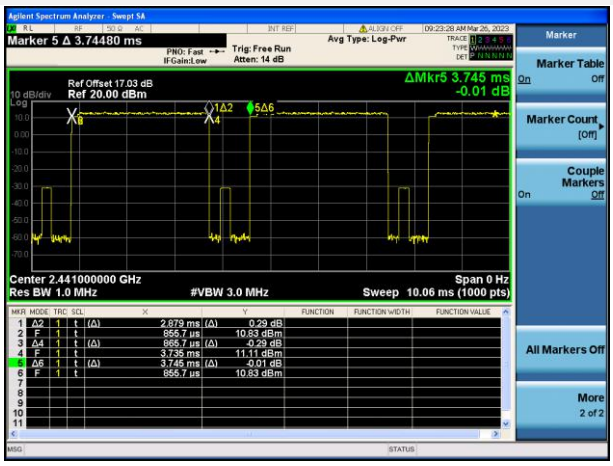
The Bluetooth duty cycle GFSK is 76.61 %, π/4-DQPSK is 76.88 % and 8-DPSK is 76.94 % as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation.

Duty Cycle

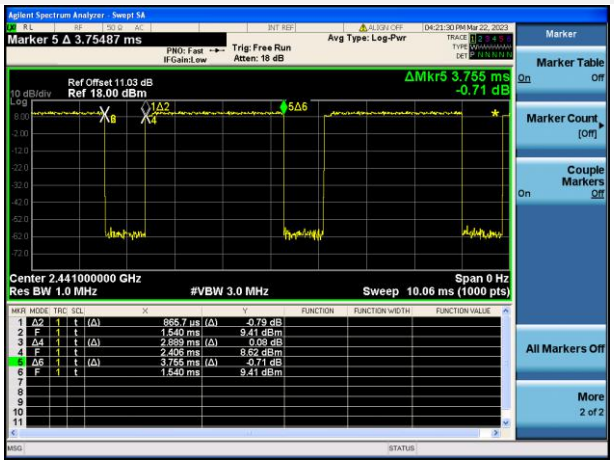
GFSK




π/4-DQPSK




8-DPSK



## 9.9 Power Reduction List

1. This mobile phone device supports the receiver detection mechanism .This device uses the receiver to indicate whether the user is making a call in head.
2. When device is making call in head, and the receiver will work, the power reduction will applied for SAR compliance.
3. When there is a voice call (including VOIP), the audio is actively routed through the headset or speaker, and the receiver will not work, which indicating the body exposure conditions will trigger the body/Limbs exposure reduced the power.
4. When this device used data mode only, and the receiver will not work too, the reduced the power are same as body exposure.

**WWAN Reduced Power Level Table**

| Reduced State | Receiver state | Transmitting conditions |
|---|---|---|
| State2 | On (Head scenario) | WWAN Only |
| State4 | On (Head scenario) | WWAN + WLAN 2.4G/WLAN 5G + BT |
| State6 | On (Head scenario) | WWAN + WLAN 2.4G + WLAN 5G |
| State1 | Off (Body scenario) | WWAN Only |
| State3 | Off (Body scenario) | WWAN + WLAN 2.4G/WLAN 5G + BT |
| State5 | Off (Body scenario) | WWAN + WLAN 2.4G + WLAN 5G |

**WLAN&BT Reduced Power Level Table**

| Reduced State | Receiver state | Transmitting conditions |
|---|---|---|
| Level1 | On<br>(Head scenario) | WLAN 2.4G Only<br>WLAN 5G Only<br>WLAN 2.4G+BT<br>WLAN 5G+BT |
| Level2 | On<br>(Head scenario) | WLAN2.4G+WLAN5G<br>WLAN2.4+WLAN5G+BT |
| Level3 | On<br>(Head scenario) | WWAN+WLAN2.4G<br>WWAN+WLAN5G<br>WWAN+WLAN2.4G+BT<br>WWAN+WLAN5G+BT |
| Level4 | On<br>(Head scenario) | WWAN+WLAN2.4G+WLAN5G<br>WWAN+WLAN2.4G+WLAN5G+BT |
| Level5 | Off<br>(Body scenario) | WLAN 2.4G Only<br>WLAN 5G Only<br>WLAN 2.4G+BT<br>WLAN 5G+BT |
| Level6 | Off<br>(Body scenario) | WLAN2.4G+WLAN5G<br>WLAN2.4+WLAN5G+BT |
| Level7 | Off<br>(Body scenario) | WWAN+WLAN2.4G<br>WWAN+WLAN5G<br>WWAN+WLAN2.4G+BT<br>WWAN+WLAN5G+BT |
| Level8 | Off<br>(Body scenario) | WWAN+WLAN2.4G+WLAN5G<br>WWAN+WLAN2.4G+WLAN5G+BT |

## WWAN Antenna Power Table

| Mode | Antenna | WWAN Antenna Up | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Full Power | Head | | | Body-worn/Specific | | | Hotspot | |
| | | | Receiver on | | | Receiver off | | | Receiver off | |
| | | | State2 | State4 | State6 | State1 | State3 | State5 | State3 | State5 |
| GSM 850 | ANT1 | 33.50 | 33.50 | 33.50 | 33.50 | 33.50 | 33.50 | 33.50 | 33.50 | 33.50 |
| GPRS850 1 Tx Slot | ANT1 | 33.50 | 33.50 | 33.50 | 33.50 | 33.50 | 33.50 | 33.50 | 33.50 | 33.50 |
| GPRS850 2 Tx Slots | ANT1 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 |
| GPRS850 3 Tx Slots | ANT1 | 30.50 | 30.50 | 30.50 | 30.50 | 30.50 | 30.50 | 30.50 | 30.50 | 30.50 |
| GPRS850 4 Tx Slots | ANT1 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 |
| EGPRS850 1 Tx Slot | ANT1 | 28.50 | 28.50 | 28.50 | 28.50 | 28.50 | 28.50 | 28.50 | 28.50 | 28.50 |
| EGPRS850 2 Tx Slots | ANT1 | 26.50 | 26.50 | 26.50 | 26.50 | 26.50 | 26.50 | 26.50 | 26.50 | 26.50 |
| EGPRS850 3 Tx Slots | ANT1 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 |
| EGPRS850 4 Tx Slots | ANT1 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 |
| GSM 1900 | ANT4 | 29.00 | 25.50 | 25.50 | 24.50 | 29.00 | 27.50 | 27.50 | 27.50 | 27.50 |
| GPRS1900 1 Tx Slot | ANT4 | 29.00 | 25.50 | 25.50 | 24.50 | 29.00 | 27.50 | 27.50 | 27.50 | 27.50 |
| GPRS1900 2 Tx Slots | ANT4 | 27.00 | 23.50 | 23.50 | 22.50 | 27.00 | 25.50 | 25.50 | 25.50 | 25.50 |
| GPRS1900 3 Tx Slots | ANT4 | 26.00 | 22.50 | 22.50 | 21.50 | 26.00 | 24.50 | 24.50 | 24.50 | 24.50 |
| GPRS1900 4 Tx Slots | ANT4 | 24.00 | 20.50 | 20.50 | 19.50 | 24.00 | 22.50 | 22.50 | 22.50 | 22.50 |
| EGPRS1900 1 Tx Slot | ANT4 | 26.50 | 23.00 | 23.00 | 22.00 | 26.50 | 25.00 | 25.00 | 25.00 | 25.00 |
| EGPRS1900 2 Tx Slots | ANT4 | 23.50 | 20.00 | 20.00 | 19.00 | 23.50 | 22.00 | 22.00 | 22.00 | 22.00 |
| EGPRS1900 3 Tx Slots | ANT4 | 21.50 | 18.00 | 18.00 | 17.00 | 21.50 | 20.00 | 20.00 | 20.00 | 20.00 |
| EGPRS1900 4 Tx Slots | ANT4 | 21.00 | 17.50 | 17.50 | 16.50 | 21.00 | 19.50 | 19.50 | 19.50 | 19.50 |
| WCDMA Band2 RMC | ANT4 | 24.00 | 21.00 | 21.00 | 20.00 | 24.00 | 22.50 | 22.50 | 22.50 | 22.50 |
| AMR | ANT4 | 24.00 | 21.00 | 21.00 | 20.00 | 24.00 | 22.50 | 22.50 | 22.50 | 22.50 |
| HSDPA Subtest-1 | ANT4 | 23.00 | 20.00 | 20.00 | 19.00 | 23.00 | 21.50 | 21.50 | 21.50 | 21.50 |
| HSDPA Subtest-2 | ANT4 | 23.00 | 20.00 | 20.00 | 19.00 | 23.00 | 21.50 | 21.50 | 21.50 | 21.50 |
| HSDPA Subtest-3 | ANT4 | 23.00 | 20.00 | 20.00 | 19.00 | 23.00 | 21.50 | 21.50 | 21.50 | 21.50 |
| HSDPA Subtest-4 | ANT4 | 23.00 | 20.00 | 20.00 | 19.00 | 23.00 | 21.50 | 21.50 | 21.50 | 21.50 |
| DC-HSDPA Subtest-1 | ANT4 | 23.00 | 20.00 | 20.00 | 19.00 | 23.00 | 21.50 | 21.50 | 21.50 | 21.50 |
| DC-HSDPA Subtest-2 | ANT4 | 23.00 | 20.00 | 20.00 | 19.00 | 23.00 | 21.50 | 21.50 | 21.50 | 21.50 |
| DC-HSDPA Subtest-3 | ANT4 | 23.00 | 20.00 | 20.00 | 19.00 | 23.00 | 21.50 | 21.50 | 21.50 | 21.50 |
| DC-HSDPA Subtest-4 | ANT4 | 23.00 | 20.00 | 20.00 | 19.00 | 23.00 | 21.50 | 21.50 | 21.50 | 21.50 |
| HSUPA Subtest-1 | ANT4 | 22.00 | 19.00 | 19.00 | 18.00 | 22.00 | 20.50 | 20.50 | 20.50 | 20.50 |
| HSUPA Subtest-2 | ANT4 | 20.00 | 17.00 | 17.00 | 16.00 | 20.00 | 18.50 | 18.50 | 18.50 | 18.50 |
| HSUPA Subtest-3 | ANT4 | 21.00 | 18.00 | 18.00 | 17.00 | 21.00 | 19.50 | 19.50 | 19.50 | 19.50 |
| HSUPA Subtest-4 | ANT4 | 21.00 | 18.00 | 18.00 | 17.00 | 21.00 | 19.50 | 19.50 | 19.50 | 19.50 |
| HSUPA Subtest-5 | ANT4 | 23.00 | 20.00 | 20.00 | 19.00 | 23.00 | 21.50 | 21.50 | 21.50 | 21.50 |
| HSPA+ | ANT4 | 24.00 | 21.00 | 21.00 | 20.00 | 24.00 | 22.50 | 22.50 | 22.50 | 22.50 |
| WCDMA Band4 RMC | ANT4 | 23.00 | 18.00 | 18.00 | 17.00 | 23.00 | 21.00 | 21.00 | 21.00 | 21.00 |
| AMR | ANT4 | 23.00 | 18.00 | 18.00 | 17.00 | 23.00 | 21.00 | 21.00 | 21.00 | 21.00 |
| HSDPA Subtest-1 | ANT4 | 22.00 | 17.00 | 17.00 | 16.00 | 22.00 | 20.00 | 20.00 | 20.00 | 20.00 |
| HSDPA Subtest-2 | ANT4 | 22.00 | 17.00 | 17.00 | 16.00 | 22.00 | 20.00 | 20.00 | 20.00 | 20.00 |
| HSDPA Subtest-3 | ANT4 | 22.00 | 17.00 | 17.00 | 16.00 | 22.00 | 20.00 | 20.00 | 20.00 | 20.00 |
| HSDPA Subtest-4 | ANT4 | 22.00 | 17.00 | 17.00 | 16.00 | 22.00 | 20.00 | 20.00 | 20.00 | 20.00 |
| DC-HSDPA Subtest-1 | ANT4 | 22.00 | 17.00 | 17.00 | 16.00 | 22.00 | 20.00 | 20.00 | 20.00 | 20.00 |
| DC-HSDPA Subtest-2 | ANT4 | 22.00 | 17.00 | 17.00 | 16.00 | 22.00 | 20.00 | 20.00 | 20.00 | 20.00 |
| DC-HSDPA Subtest-3 | ANT4 | 22.00 | 17.00 | 17.00 | 16.00 | 22.00 | 20.00 | 20.00 | 20.00 | 20.00 |
| DC-HSDPA Subtest-4 | ANT4 | 22.00 | 17.00 | 17.00 | 16.00 | 22.00 | 20.00 | 20.00 | 20.00 | 20.00 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| HSUPA Subtest-1 | ANT4 | 21.00 | 16.00 | 16.00 | 15.00 | 21.00 | 19.00 | 19.00 | 19.00 | 19.00 |
| HSUPA Subtest-2 | ANT4 | 19.00 | 14.00 | 14.00 | 13.00 | 19.00 | 17.00 | 17.00 | 17.00 | 17.00 |
| HSUPA Subtest-3 | ANT4 | 20.00 | 15.00 | 15.00 | 14.00 | 20.00 | 18.00 | 18.00 | 18.00 | 18.00 |
| HSUPA Subtest-4 | ANT4 | 20.00 | 15.00 | 15.00 | 14.00 | 20.00 | 18.00 | 18.00 | 18.00 | 18.00 |
| HSUPA Subtest-5 | ANT4 | 21.00 | 16.00 | 16.00 | 15.00 | 21.00 | 19.00 | 19.00 | 19.00 | 19.00 |
| HSPA+ | ANT4 | 23.00 | 18.00 | 18.00 | 17.00 | 23.00 | 21.00 | 21.00 | 21.00 | 21.00 |
| WCDMA Band5 RMC | ANT1 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 |
| AMR | ANT1 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 |
| HSDPA Subtest-1 | ANT1 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 |
| HSDPA Subtest-2 | ANT1 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 |
| HSDPA Subtest-3 | ANT1 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 |
| HSDPA Subtest-4 | ANT1 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 |
| DC-HSDPA Subtest-1 | ANT1 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 |
| DC-HSDPA Subtest-2 | ANT1 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 |
| DC-HSDPA Subtest-3 | ANT1 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 |
| DC-HSDPA Subtest-4 | ANT1 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 |
| HSUPA Subtest-1 | ANT1 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 |
| HSUPA Subtest-2 | ANT1 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 |
| HSUPA Subtest-3 | ANT1 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 |
| HSUPA Subtest-4 | ANT1 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 |
| HSUPA Subtest-5 | ANT1 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 |
| HSPA+ | ANT1 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 |
| LTE Band2 | ANT4 | 21.50 | 17.50 | 17.50 | 17.50 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 |
| LTE Band4 | ANT4 | 22.50 | 17.50 | 17.50 | 16.50 | 22.50 | 20.50 | 20.50 | 20.50 | 20.50 |
| LTE Band5 | ANT1 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 |
| LTE Band7 | ANT4 | 19.50 | 16.50 | 16.50 | 16.50 | 19.50 | 19.50 | 19.50 | 19.50 | 19.50 |
| LTE Band12 | ANT1 | 24.10 | 24.10 | 24.10 | 24.10 | 24.10 | 24.10 | 24.10 | 24.10 | 24.10 |
| LTE Band13 | ANT1 | 23.70 | 23.70 | 23.70 | 23.70 | 23.70 | 23.70 | 23.70 | 23.70 | 23.70 |
| LTE Band17 | ANT1 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 |
| LTE Band26 | ANT1 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 |
| LTE Band66 | ANT4 | 23.00 | 18.00 | 18.00 | 17.00 | 23.00 | 21.50 | 21.50 | 21.50 | 21.50 |
| LTE Band38 | ANT4 | 22.00 | 17.50 | 17.50 | 16.50 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 |
| LTE Band41 | ANT4 | 21.00 | 17.50 | 17.50 | 16.50 | 21.00 | 19.50 | 19.50 | 19.50 | 19.50 |
| NR Band5 | ANT1 | 24.20 | 24.20 | 24.20 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 |
| NR Band7 | ANT4 | 20.70 | 16.00 | 16.00 | 16 | 20.7 | 18.7 | 18.7 | 18.7 | 18.7 |
| NR Band38 | ANT4 | 20.70 | 17.20 | 17.20 | 17.2 | 20.70 | 19.2 | 19.2 | 19.2 | 19.2 |
| NR Band41 | ANT4 | 20.20 | 14.20 | 14.20 | 14.2 | 20.2 | 18.7 | 18.7 | 18.7 | 18.7 |
| NR Band66 | ANT4 | 24.10 | 17.60 | 17.60 | 16.6 | 24.1 | 22.6 | 22.6 | 22.6 | 22.6 |

| Mode | Antenna | WWAN Antenna Down | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Full Power | Head | | | Body-worn/Specific | | | Hotspot | |
| | | | Receiver on | | | Receiver off | | | Receiver off | |
| | | | State2 | State4 | State6 | State1 | State3 | State5 | State3 | State5 |
| GSM 850 | ANT0 | 33.50 | 33.50 | 33.50 | 33.50 | 33.50 | 33.50 | 33.50 | 33.50 | 33.50 |
| GPRS850 1 Tx Slot | ANT0 | 33.50 | 33.50 | 33.50 | 33.50 | 33.50 | 33.50 | 33.50 | 33.50 | 33.50 |
| GPRS850 2 Tx Slots | ANT0 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 | 32.00 |
| GPRS850 3 Tx Slots | ANT0 | 30.50 | 30.50 | 30.50 | 30.50 | 30.50 | 30.50 | 30.50 | 30.50 | 30.50 |
| GPRS850 4 Tx Slots | ANT0 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 | 29.00 |
| EGPRS850 1 Tx Slot | ANT0 | 28.50 | 28.50 | 28.50 | 28.50 | 28.50 | 28.50 | 28.50 | 28.50 | 28.50 |
| EGPRS850 2 Tx Slots | ANT0 | 26.50 | 26.50 | 26.50 | 26.50 | 26.50 | 26.50 | 26.50 | 26.50 | 26.50 |
| EGPRS850 3 Tx Slots | ANT0 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 |
| EGPRS850 4 Tx Slots | ANT0 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 | 23.50 |
| GSM 1900 | ANT3 | 30.50 | 30.50 | 30.50 | 30.50 | 29.50 | 29.50 | 28.00 | 29.50 | 28.00 |
| GPRS1900 1 Tx Slot | ANT3 | 30.50 | 30.50 | 30.50 | 30.50 | 29.50 | 29.50 | 28.00 | 29.50 | 28.00 |
| GPRS1900 2 Tx Slots | ANT3 | 28.50 | 28.50 | 28.50 | 28.50 | 27.50 | 27.50 | 26.00 | 27.50 | 26.00 |
| GPRS1900 3 Tx Slots | ANT3 | 27.50 | 27.50 | 27.50 | 27.50 | 26.50 | 26.50 | 25.00 | 26.50 | 25.00 |
| GPRS1900 4 Tx Slots | ANT3 | 25.50 | 25.50 | 25.50 | 25.50 | 24.50 | 24.50 | 23.00 | 24.50 | 23.00 |
| EGPRS1900 1 Tx Slot | ANT3 | 28.00 | 28.00 | 28.00 | 28.00 | 27.00 | 27.00 | 25.50 | 27.00 | 25.50 |
| EGPRS1900 2 Tx Slots | ANT3 | 25.00 | 25.00 | 25.00 | 25.00 | 24.00 | 24.00 | 22.50 | 24.00 | 22.50 |
| EGPRS1900 3 Tx Slots | ANT3 | 23.00 | 23.00 | 23.00 | 23.00 | 22.00 | 22.00 | 20.50 | 22.00 | 20.50 |
| EGPRS1900 4 Tx Slots | ANT3 | 22.50 | 22.50 | 22.50 | 22.50 | 21.50 | 21.50 | 20.00 | 21.50 | 20.00 |
| WCDMA Band2 RMC | ANT3 | 24.00 | 24.00 | 24.00 | 24.00 | 23.50 | 23.50 | 22.00 | 23.50 | 22.00 |
| AMR | ANT3 | 24.00 | 24.00 | 24.00 | 24.00 | 23.50 | 23.50 | 22.00 | 23.50 | 22.00 |
| HSDPA Subtest-1 | ANT3 | 23.00 | 23.00 | 23.00 | 23.00 | 22.50 | 22.50 | 21.00 | 22.50 | 21.00 |
| HSDPA Subtest-2 | ANT3 | 23.00 | 23.00 | 23.00 | 23.00 | 22.50 | 22.50 | 21.00 | 22.50 | 21.00 |
| HSDPA Subtest-3 | ANT3 | 23.00 | 23.00 | 23.00 | 23.00 | 22.50 | 22.50 | 21.00 | 22.50 | 21.00 |
| HSDPA Subtest-4 | ANT3 | 23.00 | 23.00 | 23.00 | 23.00 | 22.50 | 22.50 | 21.00 | 22.50 | 21.00 |
| DC-HSDPA Subtest-1 | ANT3 | 23.00 | 23.00 | 23.00 | 23.00 | 22.50 | 22.50 | 21.00 | 22.50 | 21.00 |
| DC-HSDPA Subtest-2 | ANT3 | 23.00 | 23.00 | 23.00 | 23.00 | 22.50 | 22.50 | 21.00 | 22.50 | 21.00 |
| DC-HSDPA Subtest-3 | ANT3 | 23.00 | 23.00 | 23.00 | 23.00 | 22.50 | 22.50 | 21.00 | 22.50 | 21.00 |
| DC-HSDPA Subtest-4 | ANT3 | 23.00 | 23.00 | 23.00 | 23.00 | 22.50 | 22.50 | 21.00 | 22.50 | 21.00 |
| HSUPA Subtest-1 | ANT3 | 22.00 | 22.00 | 22.00 | 22.00 | 21.50 | 21.50 | 20.00 | 21.50 | 20.00 |
| HSUPA Subtest-2 | ANT3 | 20.00 | 20.00 | 20.00 | 20.00 | 19.50 | 19.50 | 18.00 | 19.50 | 18.00 |
| HSUPA Subtest-3 | ANT3 | 21.00 | 21.00 | 21.00 | 21.00 | 20.50 | 20.50 | 19.00 | 20.50 | 19.00 |
| HSUPA Subtest-4 | ANT3 | 21.00 | 21.00 | 21.00 | 21.00 | 20.50 | 20.50 | 19.00 | 20.50 | 19.00 |
| HSUPA Subtest-5 | ANT3 | 23.00 | 23.00 | 23.00 | 23.00 | 22.50 | 22.50 | 21.00 | 22.50 | 21.00 |
| HSPA+ | ANT3 | 24.00 | 24.00 | 24.00 | 24.00 | 23.50 | 23.50 | 22.00 | 23.50 | 22.00 |
| WCDMA Band4 RMC | ANT3 | 24.00 | 24.00 | 24.00 | 24.00 | 22.00 | 22.00 | 20.00 | 22.00 | 20.00 |
| AMR | ANT3 | 24.00 | 24.00 | 24.00 | 24.00 | 22.00 | 22.00 | 20.00 | 22.00 | 20.00 |
| HSDPA Subtest-1 | ANT3 | 23.00 | 23.00 | 23.00 | 23.00 | 21.00 | 21.00 | 19.00 | 21.00 | 19.00 |
| HSDPA Subtest-2 | ANT3 | 23.00 | 23.00 | 23.00 | 23.00 | 21.00 | 21.00 | 19.00 | 21.00 | 19.00 |
| HSDPA Subtest-3 | ANT3 | 23.00 | 23.00 | 23.00 | 23.00 | 21.00 | 21.00 | 19.00 | 21.00 | 19.00 |
| HSDPA Subtest-4 | ANT3 | 23.00 | 23.00 | 23.00 | 23.00 | 21.00 | 21.00 | 19.00 | 21.00 | 19.00 |
| DC-HSDPA Subtest-1 | ANT3 | 23.00 | 23.00 | 23.00 | 23.00 | 21.00 | 21.00 | 19.00 | 21.00 | 19.00 |
| DC-HSDPA Subtest-2 | ANT3 | 23.00 | 23.00 | 23.00 | 23.00 | 21.00 | 21.00 | 19.00 | 21.00 | 19.00 |
| DC-HSDPA Subtest-3 | ANT3 | 23.00 | 23.00 | 23.00 | 23.00 | 21.00 | 21.00 | 19.00 | 21.00 | 19.00 |
| DC-HSDPA Subtest-4 | ANT3 | 23.00 | 23.00 | 23.00 | 23.00 | 21.00 | 21.00 | 19.00 | 21.00 | 19.00 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| HSUPA Subtest-1 | ANT3 | 22.00 | 22.00 | 22.00 | 22.00 | 20.00 | 20.00 | 18.00 | 20.00 | 18.00 |
| HSUPA Subtest-2 | ANT3 | 20.00 | 20.00 | 20.00 | 20.00 | 18.00 | 18.00 | 16.00 | 18.00 | 16.00 |
| HSUPA Subtest-3 | ANT3 | 21.00 | 21.00 | 21.00 | 21.00 | 19.00 | 19.00 | 17.00 | 19.00 | 17.00 |
| HSUPA Subtest-4 | ANT3 | 21.00 | 21.00 | 21.00 | 21.00 | 19.00 | 19.00 | 17.00 | 19.00 | 17.00 |
| HSUPA Subtest-5 | ANT3 | 22.00 | 22.00 | 22.00 | 22.00 | 20.00 | 20.00 | 18.00 | 20.00 | 18.00 |
| HSPA+ | ANT3 | 24.00 | 24.00 | 24.00 | 24.00 | 22.00 | 22.00 | 20.00 | 22.00 | 20.00 |
| WCDMA Band5 RMC | ANT0 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 |
| AMR | ANT0 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 |
| HSDPA Subtest-1 | ANT0 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 |
| HSDPA Subtest-2 | ANT0 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 |
| HSDPA Subtest-3 | ANT0 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 |
| HSDPA Subtest-4 | ANT0 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 |
| DC-HSDPA Subtest-1 | ANT0 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 |
| DC-HSDPA Subtest-2 | ANT0 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 |
| DC-HSDPA Subtest-3 | ANT0 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 |
| DC-HSDPA Subtest-4 | ANT0 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 | 23.00 |
| HSUPA Subtest-1 | ANT0 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 |
| HSUPA Subtest-2 | ANT0 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 |
| HSUPA Subtest-3 | ANT0 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 |
| HSUPA Subtest-4 | ANT0 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 |
| HSUPA Subtest-5 | ANT0 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 |
| HSPA+ | ANT0 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 |
| LTE Band2 | ANT3 | 23.50 | 23.50 | 23.50 | 23.50 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 |
| LTE Band4 | ANT3 | 23.50 | 23.50 | 23.50 | 23.50 | 21.50 | 21.50 | 20.00 | 21.50 | 20.00 |
| LTE Band5 | ANT0 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 |
| LTE Band7 | ANT3 | 23.50 | 23.50 | 23.50 | 23.50 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 |
| LTE Band12 | ANT0 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 |
| LTE Band13 | ANT0 | 24.10 | 24.10 | 24.10 | 24.10 | 24.10 | 24.10 | 24.10 | 24.10 | 24.10 |
| LTE Band17 | ANT0 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 |
| LTE Band26 | ANT0 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 |
| LTE Band66 | ANT3 | 24.00 | 24.00 | 24.00 | 24.00 | 22.00 | 22.00 | 20.50 | 22.00 | 20.50 |
| LTE Band38 | ANT3 | 24.00 | 24.00 | 24.00 | 24.00 | 22.00 | 22.00 | 22.00 | 22.00 | 22.00 |
| LTE Band41 | ANT3 | 24.50 | 24.50 | 24.50 | 24.50 | 21.00 | 21.00 | 19.50 | 21.00 | 19.50 |
| NR Band5 | ANT0 | 24.20 | 24.20 | 24.20 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 |
| NR Band7 | ANT3 | 23.70 | 23.70 | 23.70 | 23.7 | 19.7 | 19.7 | 18.2 | 19.7 | 18.2 |
| NR Band38 | ANT3 | 24.20 | 24.20 | 24.20 | 24.2 | 18.7 | 18.7 | 17.2 | 18.7 | 17.2 |
| NR Band41 | ANT3 | 24.20 | 24.20 | 24.20 | 24.2 | 20.2 | 20.2 | 18.7 | 20.2 | 18.7 |
| NR Band66 | ANT3 | 24.20 | 24.20 | 24.20 | 24.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 |

| Mode | Band | Antenna | ENDC Antenna | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Full Power | Head | | | Body-worn/Specific | | | Hotspot | |
| | | | | Receiver on | | | Receiver off | | | Receiver off | |
| | | | | State2 | State4 | State6 | State1 | State3 | State5 | State3 | State5 |
| DC_7A_n5A | n5 | Ant.0 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 | 23.20 | 24.20 | 23.20 |
| | n5 | Ant.1 | 24.20 | 23.70 | 23.70 | 23.70 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 |
| | LTE | Ant.3 | 23.50 | 23.50 | 23.50 | 23.50 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 |
| | LTE | Ant.4 | 19.00 | 14.50 | 14.50 | 14.50 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 |
| DC_66A_n5A | n5 | Ant.0 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 | 23.20 | 24.20 | 23.20 |
| | n5 | Ant.1 | 24.20 | 23.70 | 23.70 | 23.70 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 |
| | LTE | Ant.3 | 24.00 | 24.00 | 24.00 | 24.00 | 17.50 | 17.50 | 17.50 | 17.50 | 17.50 |
| | LTE | Ant.4 | 17.40 | 14.40 | 14.40 | 14.40 | 17.40 | 17.40 | 17.40 | 17.40 | 17.40 |
| DC_5A_n7A | n7 | Ant.3 | 23.70 | 23.70 | 23.70 | 23.70 | 18.20 | 18.20 | 15.20 | 18.20 | 15.20 |
| | n7 | Ant.4 | 18.70 | 17.20 | 17.20 | 15.20 | 18.70 | 15.70 | 15.70 | 15.70 | 15.70 |
| | LTE | Ant.0 | 24.50 | 24.50 | 24.50 | 24.50 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 |
| | LTE | Ant.1 | 23.40 | 23.40 | 23.40 | 23.40 | 19.90 | 19.90 | 19.90 | 19.90 | 19.90 |
| DC_66A_n7A | n7 | Ant.3 | 23.70 | 23.70 | 23.70 | 23.70 | 18.20 | 18.20 | 15.20 | 18.20 | 15.20 |
| | n7 | Ant.1 | 23.70 | 23.70 | 23.70 | 23.70 | 23.70 | 23.70 | 22.20 | 23.70 | 22.20 |
| | LTE | Ant.4 | 18.00 | 15.00 | 15.00 | 15.00 | 18.00 | 18.00 | 18.00 | 18.00 | 18.00 |
| | LTE | Ant.1 | 23.40 | 23.40 | 23.40 | 23.40 | 19.90 | 19.90 | 19.90 | 19.90 | 19.90 |
| DC_26A_n41A | n41 | Ant.3 | 24.20 | 24.20 | 24.20 | 24.20 | 18.70 | 18.70 | 15.70 | 18.70 | 15.70 |
| | n41 | Ant.4 | 18.70 | 16.20 | 16.20 | 13.20 | 18.70 | 15.70 | 15.70 | 15.70 | 15.70 |
| | LTE | Ant.0 | 24.00 | 24.00 | 24.00 | 24.00 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 |
| | LTE | Ant.1 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 |
| DC_2A_n66A | n66 | Ant.3 | 24.20 | 24.20 | 24.20 | 24.20 | 21.70 | 21.70 | 18.70 | 21.70 | 18.70 |
| | n66 | Ant.1 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 | 21.70 | 24.20 | 21.70 |
| | LTE | Ant.4 | 19.00 | 17.50 | 17.50 | 17.50 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 |
| DC_7A_n66A | n66 | Ant.3 | 24.20 | 24.20 | 24.20 | 24.20 | 21.70 | 21.70 | 18.70 | 21.70 | 18.70 |
| | n66 | Ant.1 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 | 24.20 | 21.70 | 24.20 | 21.70 |
| | LTE | Ant.4 | 19.00 | 14.50 | 14.50 | 14.50 | 19.00 | 19.00 | 19.00 | 19.00 | 19.00 |
| | LTE | Ant.1 | 21.00 | 21.00 | 21.00 | 21.00 | 20.00 | 20.00 | 20.00 | 20.00 | 20.00 |
| DC_5A_n66A | n66 | Ant.3 | 24.20 | 24.20 | 24.20 | 24.20 | 21.70 | 21.70 | 18.70 | 21.70 | 18.70 |
| | n66 | Ant.4 | 22.70 | 16.70 | 16.70 | 14.70 | 22.70 | 19.70 | 19.70 | 19.70 | 19.70 |
| | LTE | Ant.0 | 24.50 | 24.50 | 24.50 | 24.50 | 21.50 | 21.50 | 21.50 | 21.50 | 21.50 |
| | LTE | Ant.1 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 |

**WLAN&BT Antenna Power Table**

| Mode | Antenna | WLAN Antenna Chain0 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Full Power | Head | | | | Body-worn/Specific | | | | Hotspot | | |
| | | | Receiver on | | | | Receiver off | | | | Receiver off | | |
| | | | Level1 | Level2 | Level3 | Level4 | Level5 | Level6 | Level7 | Level8 | Level6 | Level7 | Level8 |
| 2.4G WLAN 802.11b | ANT8 | 18.50 | 17.00 | 17.00 | 16.00 | 14.50 | 18.50 | 18.50 | 16.00 | 13.00 | 18.50 | 16.00 | 13.00 |
| 2.4G WLAN 802.11g | ANT8 | 19.00 | 17.00 | 17.00 | 16.00 | 14.50 | 19.00 | 19.00 | 16.00 | 13.00 | 19.00 | 16.00 | 13.00 |
| 2.4G WLAN 802.11n20 | ANT8 | 19.00 | 17.00 | 17.00 | 16.00 | 14.50 | 19.00 | 19.00 | 16.00 | 13.00 | 19.00 | 16.00 | 13.00 |
| 2.4G WLAN 802.11n40 | ANT8 | 19.00 | 17.00 | 17.00 | 16.00 | 14.50 | 19.00 | 19.00 | 16.00 | 13.00 | 19.00 | 16.00 | 13.00 |
| 2.4G WLAN 802.11ac20 | ANT8 | 19.00 | 17.00 | 17.00 | 16.00 | 14.50 | 19.00 | 19.00 | 16.00 | 13.00 | 19.00 | 16.00 | 13.00 |
| 2.4G WLAN 802.11ac40 | ANT8 | 19.00 | 17.00 | 17.00 | 16.00 | 14.50 | 19.00 | 19.00 | 16.00 | 13.00 | 19.00 | 16.00 | 13.00 |
| 2.4G WLAN 802.11ax20 | ANT8 | 19.00 | 17.00 | 17.00 | 16.00 | 14.50 | 19.00 | 19.00 | 16.00 | 13.00 | 19.00 | 16.00 | 13.00 |
| 2.4G WLAN 802.11ax40 | ANT8 | 19.00 | 17.00 | 17.00 | 16.00 | 14.50 | 19.00 | 19.00 | 16.00 | 13.00 | 19.00 | 16.00 | 13.00 |
| 5.2G WLAN 802.11a | ANT2 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |
| 5.2G WLAN 802.11n20 | ANT2 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |
| 5.2G WLAN 802.11n40 | ANT2 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |
| 5.2G WLAN 802.11ac20 | ANT2 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |
| 5.2G WLAN 802.11ac40 | ANT2 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |
| 5.2G WLAN 802.11ac80 | ANT2 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 |
| 5.2G WLAN 802.11ax20 | ANT2 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |
| 5.2G WLAN 802.11ax40 | ANT2 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5.2G WLAN 802.11ax80 | ANT2 | 13.00 | 13.00 | 13.00 | 13.00 | 13.00 | 13.00 | 13.00 | 13.00 | 12.00 | 13.00 | 13.00 | 12.00 |
| 5.3G WLAN 802.11a | ANT2 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |
| 5.3G WLAN 802.11n20 | ANT2 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |
| 5.3G WLAN 802.11n40 | ANT2 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |
| 5.3G WLAN 802.11ac20 | ANT2 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |
| 5.3G WLAN 802.11ac40 | ANT2 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |
| 5.3G WLAN 802.11ac80 | ANT2 | 10.00 | 10.00 | 10.00 | 10.00 | 14.50 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 |
| 5.3G WLAN 802.11ax20 | ANT2 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |
| 5.3G WLAN 802.11ax40 | ANT2 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |
| 5.3G WLAN 802.11ax80 | ANT2 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 |
| 5.6G WLAN 802.11a | ANT2 | 19.00 | 19.00 | 18.00 | 18.00 | 13.50 | 19.00 | 16.50 | 16.50 | 14.00 | 16.50 | 16.50 | 14.00 |
| 5.6G WLAN 802.11n20 | ANT2 | 19.00 | 19.00 | 18.00 | 18.00 | 13.50 | 19.00 | 16.50 | 16.50 | 14.00 | 16.50 | 16.50 | 14.00 |
| 5.6G WLAN 802.11n40 | ANT2 | 19.00 | 19.00 | 18.00 | 18.00 | 13.50 | 19.00 | 16.50 | 16.50 | 14.00 | 16.50 | 16.50 | 14.00 |
| 5.6G WLAN 802.11ac20 | ANT2 | 19.00 | 19.00 | 18.00 | 18.00 | 13.50 | 19.00 | 16.50 | 16.50 | 14.00 | 16.50 | 16.50 | 14.00 |
| 5.6G WLAN 802.11ac40 | ANT2 | 19.00 | 19.00 | 18.00 | 18.00 | 13.50 | 19.00 | 16.50 | 16.50 | 14.00 | 16.50 | 16.50 | 14.00 |
| 5.6G WLAN 802.11ac80 | ANT2 | 19.00 | 19.00 | 18.00 | 18.00 | 13.50 | 19.00 | 16.50 | 16.50 | 14.00 | 16.50 | 16.50 | 14.00 |
| 5.6G WLAN 802.11ax20 | ANT2 | 19.00 | 19.00 | 18.00 | 18.00 | 13.50 | 19.00 | 16.50 | 16.50 | 14.00 | 16.50 | 16.50 | 14.00 |
| 5.6G WLAN 802.11ax40 | ANT2 | 19.00 | 19.00 | 18.00 | 18.00 | 13.50 | 19.00 | 16.50 | 16.50 | 14.00 | 16.50 | 16.50 | 14.00 |
| 5.6G WLAN 802.11ax80 | ANT2 | 19.00 | 19.00 | 18.00 | 18.00 | 13.50 | 19.00 | 16.50 | 16.50 | 14.00 | 16.50 | 16.50 | 14.00 |
| 5.8G WLAN 802.11a | ANT2 | 19.00 | 19.00 | 19.00 | 17.50 | 14.00 | 19.00 | 16.00 | 16.00 | 13.00 | 16.00 | 16.00 | 13.00 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5.8G WLAN 802.11n20 | ANT2 | 19.00 | 19.00 | 19.00 | 17.50 | 14.00 | 19.00 | 16.00 | 16.00 | 13.00 | 16.00 | 16.00 | 13.00 |
| 5.8G WLAN 802.11n40 | ANT2 | 19.00 | 19.00 | 19.00 | 17.50 | 14.00 | 19.00 | 16.00 | 16.00 | 13.00 | 16.00 | 16.00 | 13.00 |
| 5.8G WLAN 802.11ac20 | ANT2 | 19.00 | 19.00 | 19.00 | 17.50 | 14.00 | 19.00 | 16.00 | 16.00 | 13.00 | 16.00 | 16.00 | 13.00 |
| 5.8G WLAN 802.11ac40 | ANT2 | 19.00 | 19.00 | 19.00 | 17.50 | 14.00 | 19.00 | 16.00 | 16.00 | 13.00 | 16.00 | 16.00 | 13.00 |
| 5.8G WLAN 802.11ac80 | ANT2 | 19.00 | 19.00 | 19.00 | 17.50 | 14.00 | 19.00 | 16.00 | 16.00 | 13.00 | 16.00 | 16.00 | 13.00 |
| 5.8G WLAN 802.11ax20 | ANT2 | 19.00 | 19.00 | 19.00 | 17.50 | 14.00 | 19.00 | 16.00 | 16.00 | 13.00 | 16.00 | 16.00 | 13.00 |
| 5.8G WLAN 802.11ax40 | ANT2 | 19.00 | 19.00 | 19.00 | 17.50 | 14.00 | 19.00 | 16.00 | 16.00 | 13.00 | 16.00 | 16.00 | 13.00 |
| 5.8G WLAN 802.11ax80 | ANT2 | 19.00 | 19.00 | 19.00 | 17.50 | 14.00 | 19.00 | 16.00 | 16.00 | 13.00 | 16.00 | 16.00 | 13.00 |
| Bluetooth | ANT8 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 |

| Mode | Antenna | WLAN Antenna Chain1 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Full Power | Head | | | | Body-worn/Specific | | | | Hotspot | | |
| | | | Receiver on | | | | Receiver off | | | | Receiver off | | |
| | | | Level1 | Level2 | Level3 | Level4 | Level5 | Level6 | Level7 | Level8 | Level6 | Level7 | Level8 |
| 2.4G WLAN 802.11b | ANT2 | 18.50 | 17.00 | 17.00 | 16.00 | 14.50 | 18.50 | 18.50 | 16.00 | 13.00 | 18.50 | 16.00 | 13.00 |
| 2.4G WLAN 802.11g | ANT2 | 19.00 | 17.00 | 17.00 | 16.00 | 14.50 | 19.00 | 19.00 | 16.00 | 13.00 | 19.00 | 16.00 | 13.00 |
| 2.4G WLAN WLAN802.11n2 | ANT2 | 19.00 | 17.00 | 17.00 | 16.00 | 14.50 | 19.00 | 19.00 | 16.00 | 13.00 | 19.00 | 16.00 | 13.00 |
| 2.4G WLAN 802.11n40 | ANT2 | 19.00 | 17.00 | 17.00 | 16.00 | 14.50 | 19.00 | 19.00 | 16.00 | 13.00 | 19.00 | 16.00 | 13.00 |
| 2.4G WLAN 802.11ac20 | ANT2 | 19.00 | 17.00 | 17.00 | 16.00 | 14.50 | 19.00 | 19.00 | 16.00 | 13.00 | 19.00 | 16.00 | 13.00 |
| 2.4G WLAN 802.11ac40 | ANT2 | 19.00 | 17.00 | 17.00 | 16.00 | 14.50 | 19.00 | 19.00 | 16.00 | 13.00 | 19.00 | 16.00 | 13.00 |
| 2.4G WLAN 802.11ax20 | ANT2 | 19.00 | 17.00 | 17.00 | 16.00 | 14.50 | 19.00 | 19.00 | 16.00 | 13.00 | 19.00 | 16.00 | 13.00 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4G WLAN 802.11ax40 | ANT2 | 19.00 | 17.00 | 17.00 | 16.00 | 14.50 | 19.00 | 19.00 | 16.00 | 13.00 | 19.00 | 16.00 | 13.00 |
| 5.2G WLAN 802.11a | ANT7 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |
| 5.2G WLAN 802.11n20 | ANT7 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |
| 5.2G WLAN 802.11n40 | ANT7 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |
| 5.2G WLAN 802.11ac20 | ANT7 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |
| 5.2G WLAN 802.11ac40 | ANT7 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |
| 5.2G WLAN 802.11ac80 | ANT7 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 | 11.00 |
| 5.2G WLAN 802.11ax20 | ANT7 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |
| 5.2G WLAN 802.11ax40 | ANT7 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |
| 5.2G WLAN 802.11ax80 | ANT7 | 13.00 | 13.00 | 13.00 | 13.00 | 13.00 | 13.00 | 13.00 | 13.00 | 12.00 | 13.00 | 13.00 | 12.00 |
| 5.3G WLAN 802.11a | ANT7 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |
| 5.3G WLAN 802.11n20 | ANT7 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |
| 5.3G WLAN 802.11n40 | ANT7 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |
| 5.3G WLAN 802.11ac20 | ANT7 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |
| 5.3G WLAN 802.11ac40 | ANT7 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |
| 5.3G WLAN 802.11ac80 | ANT7 | 10.00 | 10.00 | 10.00 | 10.00 | 14.50 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 | 10.00 |
| 5.3G WLAN 802.11ax20 | ANT7 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |
| 5.3G WLAN 802.11ax40 | ANT7 | 19.00 | 19.00 | 19.00 | 19.00 | 14.50 | 19.00 | 15.00 | 15.00 | 12.00 | 15.00 | 15.00 | 12.00 |
| 5.3G WLAN 802.11ax80 | ANT7 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 |
| 5.6G WLAN 802.11a | ANT7 | 19.00 | 19.00 | 18.00 | 18.00 | 13.50 | 19.00 | 16.50 | 16.50 | 14.00 | 16.50 | 16.50 | 14.00 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5.6G WLAN 802.11n20 | ANT7 | 19.00 | 19.00 | 18.00 | 18.00 | 13.50 | 19.00 | 16.50 | 16.50 | 14.00 | 16.50 | 16.50 | 14.00 |
| 5.6G WLAN 802.11n40 | ANT7 | 19.00 | 19.00 | 18.00 | 18.00 | 13.50 | 19.00 | 16.50 | 16.50 | 14.00 | 16.50 | 16.50 | 14.00 |
| 5.6G WLAN 802.11ac20 | ANT7 | 19.00 | 19.00 | 18.00 | 18.00 | 13.50 | 19.00 | 16.50 | 16.50 | 14.00 | 16.50 | 16.50 | 14.00 |
| 5.6G WLAN 802.11ac40 | ANT7 | 19.00 | 19.00 | 18.00 | 18.00 | 13.50 | 19.00 | 16.50 | 16.50 | 14.00 | 16.50 | 16.50 | 14.00 |
| 5.6G WLAN 802.11ac80 | ANT7 | 19.00 | 19.00 | 18.00 | 18.00 | 13.50 | 19.00 | 16.50 | 16.50 | 14.00 | 16.50 | 16.50 | 14.00 |
| 5.6G WLAN 802.11ax20 | ANT7 | 19.00 | 19.00 | 18.00 | 18.00 | 13.50 | 19.00 | 16.50 | 16.50 | 14.00 | 16.50 | 16.50 | 14.00 |
| 5.6G WLAN 802.11ax40 | ANT7 | 19.00 | 19.00 | 18.00 | 18.00 | 13.50 | 19.00 | 16.50 | 16.50 | 14.00 | 16.50 | 16.50 | 14.00 |
| 5.6G WLAN 802.11ax80 | ANT7 | 19.00 | 19.00 | 18.00 | 18.00 | 13.50 | 19.00 | 16.50 | 16.50 | 14.00 | 16.50 | 16.50 | 14.00 |
| 5.8G WLAN 802.11a | ANT7 | 19.00 | 19.00 | 19.00 | 17.50 | 14.00 | 19.00 | 16.00 | 16.00 | 13.00 | 16.00 | 16.00 | 13.00 |
| 5.8G WLAN 802.11n20 | ANT7 | 19.00 | 19.00 | 19.00 | 17.50 | 14.00 | 19.00 | 16.00 | 16.00 | 13.00 | 16.00 | 16.00 | 13.00 |
| 5.8G WLAN 802.11n40 | ANT7 | 19.00 | 19.00 | 19.00 | 17.50 | 14.00 | 19.00 | 16.00 | 16.00 | 13.00 | 16.00 | 16.00 | 13.00 |
| 5.8G WLAN 802.11ac20 | ANT7 | 19.00 | 19.00 | 19.00 | 17.50 | 14.00 | 19.00 | 16.00 | 16.00 | 13.00 | 16.00 | 16.00 | 13.00 |
| 5.8G WLAN 802.11ac40 | ANT7 | 19.00 | 19.00 | 19.00 | 17.50 | 14.00 | 19.00 | 16.00 | 16.00 | 13.00 | 16.00 | 16.00 | 13.00 |
| 5.8G WLAN 802.11ac80 | ANT7 | 19.00 | 19.00 | 19.00 | 17.50 | 14.00 | 19.00 | 16.00 | 16.00 | 13.00 | 16.00 | 16.00 | 13.00 |
| 5.8G WLAN 802.11ax20 | ANT7 | 19.00 | 19.00 | 19.00 | 17.50 | 14.00 | 19.00 | 16.00 | 16.00 | 13.00 | 16.00 | 16.00 | 13.00 |
| 5.8G WLAN 802.11ax40 | ANT7 | 19.00 | 19.00 | 19.00 | 17.50 | 14.00 | 19.00 | 16.00 | 16.00 | 13.00 | 16.00 | 16.00 | 13.00 |
| 5.8G WLAN 802.11ax80 | ANT7 | 19.00 | 19.00 | 19.00 | 17.50 | 14.00 | 19.00 | 16.00 | 16.00 | 13.00 | 16.00 | 16.00 | 13.00 |

| Mode | Antenna | WLAN Antenna MIMO | | | |
|---|---|---|---|---|---|
| | | Full Power | Head | Body-worn/Specific | Hotspot |
| | | | Receiver on | Receiver off | Receiver off |

| | | | Level1 | Level2 | Level3 | Level4 | Level5 | Level6 | Level7 | Level8 | Level6 | Level7 | Level8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4G WLAN 802.11b | ANT2&8 | 21.50 | 20.00 | 20.00 | 19.00 | 17.50 | 21.50 | 21.50 | 19.00 | 16.00 | 21.50 | 19.00 | 16.00 |
| 2.4G WLAN 802.11g | ANT2&8 | 22.00 | 20.00 | 20.00 | 19.00 | 17.50 | 22.00 | 22.00 | 19.00 | 16.00 | 22.00 | 19.00 | 16.00 |
| 2.4G WLAN802.11n20 | ANT2&8 | 22.00 | 20.00 | 20.00 | 19.00 | 17.50 | 22.00 | 22.00 | 19.00 | 16.00 | 22.00 | 19.00 | 16.00 |
| 2.4G WLAN 802.11n40 | ANT2&8 | 22.00 | 20.00 | 20.00 | 19.00 | 17.50 | 22.00 | 22.00 | 19.00 | 16.00 | 22.00 | 19.00 | 16.00 |
| 2.4G WLAN 802.11ac20 | ANT2&8 | 22.00 | 20.00 | 20.00 | 19.00 | 17.50 | 22.00 | 22.00 | 19.00 | 16.00 | 22.00 | 19.00 | 16.00 |
| 2.4G WLAN 802.11ac40 | ANT2&8 | 22.00 | 20.00 | 20.00 | 19.00 | 17.50 | 22.00 | 22.00 | 19.00 | 16.00 | 22.00 | 19.00 | 16.00 |
| 2.4G WLAN 802.11ax20 | ANT2&8 | 22.00 | 20.00 | 20.00 | 19.00 | 17.50 | 22.00 | 22.00 | 19.00 | 16.00 | 22.00 | 19.00 | 16.00 |
| 2.4G WLAN 802.11ax40 | ANT2&8 | 22.00 | 20.00 | 20.00 | 19.00 | 17.50 | 22.00 | 22.00 | 19.00 | 16.00 | 22.00 | 19.00 | 16.00 |
| 5.2G WLAN 802.11a | ANT2&7 | 22.00 | 22.00 | 22.00 | 22.00 | 17.50 | 22.00 | 18.00 | 18.00 | 15.00 | 18.00 | 18.00 | 15.00 |
| 5.2G WLAN 802.11n20 | ANT2&7 | 22.00 | 22.00 | 22.00 | 22.00 | 17.50 | 22.00 | 18.00 | 18.00 | 15.00 | 18.00 | 18.00 | 15.00 |
| 5.2G WLAN 802.11n40 | ANT2&7 | 22.00 | 22.00 | 22.00 | 22.00 | 17.50 | 22.00 | 18.00 | 18.00 | 15.00 | 18.00 | 18.00 | 15.00 |
| 5.2G WLAN 802.11ac20 | ANT2&7 | 22.00 | 22.00 | 22.00 | 22.00 | 17.50 | 22.00 | 18.00 | 18.00 | 15.00 | 18.00 | 18.00 | 15.00 |
| 5.2G WLAN 802.11ac40 | ANT2&7 | 22.00 | 22.00 | 22.00 | 22.00 | 17.50 | 22.00 | 18.00 | 18.00 | 15.00 | 18.00 | 18.00 | 15.00 |
| 5.2G WLAN 802.11ac80 | ANT2&7 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 | 14.00 |
| 5.2G WLAN 802.11ax20 | ANT2&7 | 22.00 | 22.00 | 22.00 | 22.00 | 17.50 | 22.00 | 18.00 | 18.00 | 15.00 | 18.00 | 18.00 | 15.00 |
| 5.2G WLAN 802.11ax40 | ANT2&7 | 22.00 | 22.00 | 22.00 | 22.00 | 17.50 | 22.00 | 18.00 | 18.00 | 15.00 | 18.00 | 18.00 | 15.00 |
| 5.2G WLAN 802.11ax80 | ANT2&7 | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 | 16.00 | 15.00 | 16.00 | 16.00 | 15.00 |
| 5.3G WLAN 802.11a | ANT2&7 | 22.00 | 22.00 | 22.00 | 22.00 | 17.50 | 22.00 | 18.00 | 18.00 | 15.00 | 18.00 | 18.00 | 15.00 |
| 5.3G WLAN 802.11n20 | ANT2&7 | 22.00 | 22.00 | 22.00 | 22.00 | 17.50 | 22.00 | 18.00 | 18.00 | 15.00 | 18.00 | 18.00 | 15.00 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5.3G WLAN 802.11n40 | ANT2&7 | 22.00 | 22.00 | 22.00 | 22.00 | 17.50 | 22.00 | 18.00 | 18.00 | 15.00 | 18.00 | 18.00 | 15.00 |
| 5.3G WLAN 802.11ac20 | ANT2&7 | 22.00 | 22.00 | 22.00 | 22.00 | 17.50 | 22.00 | 18.00 | 18.00 | 15.00 | 18.00 | 18.00 | 15.00 |
| 5.3G WLAN 802.11ac40 | ANT2&7 | 22.00 | 22.00 | 22.00 | 22.00 | 17.50 | 22.00 | 18.00 | 18.00 | 15.00 | 18.00 | 18.00 | 15.00 |
| 5.3G WLAN 802.11ac80 | ANT2&7 | 17.50 | 13.00 | 13.00 | 13.00 | 17.50 | 13.00 | 13.00 | 13.00 | 13.00 | 13.00 | 13.00 | 13.00 |
| 5.3G WLAN 802.11ax20 | ANT2&7 | 22.00 | 22.00 | 22.00 | 22.00 | 17.50 | 22.00 | 18.00 | 18.00 | 15.00 | 18.00 | 18.00 | 15.00 |
| 5.3G WLAN 802.11ax40 | ANT2&7 | 22.00 | 22.00 | 22.00 | 22.00 | 17.50 | 22.00 | 18.00 | 18.00 | 15.00 | 18.00 | 18.00 | 15.00 |
| 5.3G WLAN 802.11ax80 | ANT2&7 | 14.50 | 14.50 | 14.50 | 14.50 | 14.50 | 14.50 | 14.50 | 14.50 | 14.50 | 14.50 | 14.50 | 14.50 |
| 5.6G WLAN 802.11a | ANT2&7 | 22.00 | 22.00 | 21.00 | 21.00 | 16.50 | 22.00 | 19.50 | 19.50 | 17.00 | 19.50 | 19.50 | 17.00 |
| 5.6G WLAN 802.11n20 | ANT2&7 | 22.00 | 22.00 | 21.00 | 21.00 | 16.50 | 22.00 | 19.50 | 19.50 | 17.00 | 19.50 | 19.50 | 17.00 |
| 5.6G WLAN 802.11n40 | ANT2&7 | 22.00 | 22.00 | 21.00 | 21.00 | 16.50 | 22.00 | 19.50 | 19.50 | 17.00 | 19.50 | 19.50 | 17.00 |
| 5.6G WLAN 802.11ac20 | ANT2&7 | 22.00 | 22.00 | 21.00 | 21.00 | 16.50 | 22.00 | 19.50 | 19.50 | 17.00 | 19.50 | 19.50 | 17.00 |
| 5.6G WLAN 802.11ac40 | ANT2&7 | 22.00 | 22.00 | 21.00 | 21.00 | 16.50 | 22.00 | 19.50 | 19.50 | 17.00 | 19.50 | 19.50 | 17.00 |
| 5.6G WLAN 802.11ac80 | ANT2&7 | 22.00 | 22.00 | 21.00 | 21.00 | 16.50 | 22.00 | 19.50 | 19.50 | 17.00 | 19.50 | 19.50 | 17.00 |
| 5.6G WLAN 802.11ax20 | ANT2&7 | 22.00 | 22.00 | 21.00 | 21.00 | 16.50 | 22.00 | 19.50 | 19.50 | 17.00 | 19.50 | 19.50 | 17.00 |
| 5.6G WLAN 802.11ax40 | ANT2&7 | 22.00 | 22.00 | 21.00 | 21.00 | 16.50 | 22.00 | 19.50 | 19.50 | 17.00 | 19.50 | 19.50 | 17.00 |
| 5.6G WLAN 802.11ax80 | ANT2&7 | 22.00 | 22.00 | 21.00 | 21.00 | 16.50 | 22.00 | 19.50 | 19.50 | 17.00 | 19.50 | 19.50 | 17.00 |
| 5.8G WLAN 802.11a | ANT2&7 | 22.00 | 22.00 | 22.00 | 20.50 | 17.00 | 22.00 | 19.00 | 19.00 | 16.00 | 19.00 | 19.00 | 16.00 |
| 5.8G WLAN 802.11n20 | ANT2&7 | 22.00 | 22.00 | 22.00 | 20.50 | 17.00 | 22.00 | 19.00 | 19.00 | 16.00 | 19.00 | 19.00 | 16.00 |
| 5.8G WLAN 802.11n40 | ANT2&7 | 22.00 | 22.00 | 22.00 | 20.50 | 17.00 | 22.00 | 19.00 | 19.00 | 16.00 | 19.00 | 19.00 | 16.00 |
| 5.8G WLAN 802.11ac20 | ANT2&7 | 22.00 | 22.00 | 22.00 | 20.50 | 17.00 | 22.00 | 19.00 | 19.00 | 16.00 | 19.00 | 19.00 | 16.00 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5.8G WLAN 802.11ac40 | ANT2&7 | 22.00 | 22.00 | 22.00 | 20.50 | 17.00 | 22.00 | 19.00 | 19.00 | 16.00 | 19.00 | 19.00 | 16.00 |
| 5.8G WLAN 802.11ac80 | ANT2&7 | 22.00 | 22.00 | 22.00 | 20.50 | 17.00 | 22.00 | 19.00 | 19.00 | 16.00 | 19.00 | 19.00 | 16.00 |
| 5.8G WLAN 802.11ax20 | ANT2&7 | 22.00 | 22.00 | 22.00 | 20.50 | 17.00 | 22.00 | 19.00 | 19.00 | 16.00 | 19.00 | 19.00 | 16.00 |
| 5.8G WLAN 802.11ax40 | ANT2&7 | 22.00 | 22.00 | 22.00 | 20.50 | 17.00 | 22.00 | 19.00 | 19.00 | 16.00 | 19.00 | 19.00 | 16.00 |
| 5.8G WLAN 802.11ax80 | ANT2&7 | 22.00 | 22.00 | 22.00 | 20.50 | 17.00 | 22.00 | 19.00 | 19.00 | 16.00 | 19.00 | 19.00 | 16.00 |

# 10 TEST EXCLUSION CONSIDERATION

Please refer the document “BL-SZ2320168-AA.pdf”.

## 10.1SAR Test Exclusion Consideration Table

According with FCC KDB 447498 D04, Appendix B, The SAR-based exemption formula applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW), this Device SAR test configurations consider as following :

Antenna 0

| Band | Mode | Max. Peak Power | | Test Position Configurations | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | dBm | mW | Front Side | Back Side | Left Edge | Right Edge | Top Edge | Bottom Edge |
| GSM 850 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | >25mm | <25mm |
| | Data | 30.50 | 1122.02 | Yes | Yes | Yes | Yes | Yes | Yes |
| WCDMA Band 5 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | >25mm | <25mm |
| | RMC | 24.50 | 281.84 | Yes | Yes | Yes | Yes | Yes | Yes |
| LTE Band 5 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | >25mm | <25mm |
| | QPSK | 24.50 | 281.84 | Yes | Yes | Yes | Yes | Yes | Yes |
| LTE Band 12 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | >25mm | <25mm |
| | QPSK | 24.50 | 281.84 | Yes | Yes | Yes | Yes | Yes | Yes |
| LTE Band 13 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | >25mm | <25mm |
| | QPSK | 24.10 | 257.04 | Yes | Yes | Yes | Yes | Yes | Yes |
| LTE Band 17 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | >25mm | <25mm |
| | QPSK | 24.50 | 281.84 | Yes | Yes | Yes | Yes | Yes | Yes |
| LTE Band 26 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | >25mm | <25mm |
| | QPSK | 24.00 | 251.19 | Yes | Yes | Yes | Yes | Yes | Yes |
| SA n5 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | >25mm | <25mm |
| | DFT-s-OFDM QPSK | 24.20 | 263.03 | Yes | Yes | Yes | Yes | Yes | Yes |
| NSA n5 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | >25mm | <25mm |
| | DFT-s-OFDM QPSK | 23.20 | 208.93 | Yes | Yes | Yes | Yes | Yes | Yes |

Antenna 1

| Band | Mode | Max. Peak Power | | Test Position Configurations | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | dBm | mW | Front Side | Back Side | Left Edge | Right Edge | Top Edge | Bottom Edge |
| GSM 850 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | Data | 30.50 | 1122.02 | Yes | Yes | Yes | Yes | Yes | Yes |
| WCDMA Band 5 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | RMC | 24.50 | 281.84 | Yes | Yes | Yes | Yes | Yes | Yes |
| LTE Band 5 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | QPSK | 24.50 | 281.84 | Yes | Yes | Yes | Yes | Yes | Yes |
| LTE Band 12 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | QPSK | 24.10 | 257.04 | Yes | Yes | Yes | Yes | Yes | Yes |
| LTE Band 13 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | QPSK | 23.70 | 234.42 | Yes | Yes | Yes | Yes | Yes | Yes |
| LTE Band 17 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | QPSK | 24.20 | 263.03 | Yes | Yes | Yes | Yes | Yes | Yes |
| LTE Band 26 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | QPSK | 24.00 | 251.19 | Yes | Yes | Yes | Yes | Yes | Yes |
| SA n5 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | DFT-s-OFDM QPSK | 24.20 | 263.03 | Yes | Yes | Yes | Yes | Yes | Yes |
| NSA n5 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | DFT-s-OFDM QPSK | 23.70 | 234.42 | Yes | Yes | Yes | Yes | Yes | Yes |

Antenna 3

| Band | Mode | Max. Peak Power | | Test Position Configurations | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | dBm | mW | Front Side | Back Side | Left Edge | Right Edge | Top Edge | Bottom Edge |
| GSM 1900 | Distance to User | | | <25mm | <25mm | <25mm | >25mm | >25mm | <25mm |
| | Data | 27.50 | 562.34 | Yes | Yes | Yes | Yes | Yes | Yes |
| WCDMA Band 2 | Distance to User | | | <25mm | <25mm | <25mm | >25mm | >25mm | <25mm |
| | RMC | 24.00 | 251.19 | Yes | Yes | Yes | Yes | Yes | Yes |
| WCDMA Band 4 | Distance to User | | | <25mm | <25mm | <25mm | >25mm | >25mm | <25mm |
| | RMC | 24.00 | 251.19 | Yes | Yes | Yes | Yes | Yes | Yes |
| LTE Band 2 | Distance to User | | | <25mm | <25mm | <25mm | >25mm | >25mm | <25mm |
| | QPSK | 23.50 | 223.87 | Yes | Yes | Yes | Yes | Yes | Yes |
| LTE Band 4 | Distance to User | | | <25mm | <25mm | <25mm | >25mm | >25mm | <25mm |
| | QPSK | 23.50 | 223.87 | Yes | Yes | Yes | Yes | Yes | Yes |
| LTE Band 7 | Distance to User | | | <25mm | <25mm | <25mm | >25mm | >25mm | <25mm |
| | QPSK | 23.50 | 223.87 | Yes | Yes | Yes | Yes | Yes | Yes |
| LTE Band 66 | Distance to User | | | <25mm | <25mm | <25mm | >25mm | >25mm | <25mm |
| | QPSK | 24.00 | 251.19 | Yes | Yes | Yes | Yes | Yes | Yes |
| LTE Band 38 | Distance to User | | | <25mm | <25mm | <25mm | >25mm | >25mm | <25mm |
| | QPSK | 24.00 | 251.19 | Yes | Yes | Yes | Yes | Yes | Yes |
| LTE Band 41 | Distance to User | | | <25mm | <25mm | <25mm | >25mm | >25mm | <25mm |
| | QPSK | 24.50 | 281.84 | Yes | Yes | Yes | Yes | Yes | Yes |
| SA n7 | Distance to User | | | <25mm | <25mm | <25mm | >25mm | >25mm | <25mm |
| | DFT-s-OFDM QPSK | 19.70 | 93.33 | Yes | Yes | Yes | Yes | Yes | Yes |
| SA n38 | Distance to User | | | <25mm | <25mm | <25mm | >25mm | >25mm | <25mm |
| | DFT-s-OFDM QPSK | 24.20 | 263.03 | Yes | Yes | Yes | Yes | Yes | Yes |
| SA n41 | Distance to User | | | <25mm | <25mm | <25mm | >25mm | >25mm | <25mm |
| | DFT-s-OFDM QPSK | 20.20 | 131.83 | Yes | Yes | Yes | Yes | Yes | Yes |
| SA n66 | Distance to User | | | <25mm | <25mm | <25mm | >25mm | >25mm | <25mm |
| | DFT-s-OFDM QPSK | 21.70 | 147.91 | Yes | Yes | Yes | Yes | Yes | Yes |
| NSA n7 | Distance to User | | | <25mm | <25mm | <25mm | >25mm | >25mm | <25mm |
| | DFT-s-OFDM QPSK | 18.20 | 66.07 | Yes | Yes | Yes | Yes | Yes | Yes |
| NSA n41 | Distance to User | | | <25mm | <25mm | <25mm | >25mm | >25mm | <25mm |
| | DFT-s-OFDM QPSK | 15.70 | 37.15 | Yes | Yes | Yes | Yes | Yes | Yes |
| NSA n66 | Distance to User | | | <25mm | <25mm | <25mm | >25mm | >25mm | <25mm |
| | DFT-s-OFDM | 21.20 | 131.83 | Yes | Yes | Yes | Yes | Yes | Yes |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | QPSK | | | | | | | | |

Antenna 4

| Band | Mode | Max. Peak Power | | Test Position Configurations | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | dBm | mW | Front Side | Back Side | Left Edge | Right Edge | Top Edge | Bottom Edge |
| GSM 1900 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | Data | 26.00 | 398.11 | Yes | Yes | Yes | Yes | Yes | Yes |
| WCDMA Band 2 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | RMC | 24.00 | 251.19 | Yes | Yes | Yes | Yes | Yes | Yes |
| WCDMA Band 4 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | RMC | 24.00 | 251.19 | Yes | Yes | Yes | Yes | Yes | Yes |
| LTE Band 2 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | QPSK | 21.50 | 141.25 | Yes | Yes | Yes | Yes | Yes | Yes |
| LTE Band 4 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | QPSK | 22.50 | 177.83 | Yes | Yes | Yes | Yes | Yes | Yes |
| LTE Band 7 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | QPSK | 19.50 | 89.13 | Yes | Yes | Yes | Yes | Yes | Yes |
| LTE Band 66 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | QPSK | 24.00 | 251.19 | Yes | Yes | Yes | Yes | Yes | Yes |
| LTE Band 38 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | QPSK | 22.00 | 158.49 | Yes | Yes | Yes | Yes | Yes | Yes |
| LTE Band 41 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | QPSK | 21.00 | 125.89 | Yes | Yes | Yes | Yes | Yes | Yes |
| SA n7 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | DFT-s-OFDM QPSK | 20.70 | 117.49 | Yes | Yes | Yes | Yes | Yes | Yes |
| SA n38 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | DFT-s-OFDM QPSK | 20.70 | 117.49 | Yes | Yes | Yes | Yes | Yes | Yes |
| SA n41 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | DFT-s-OFDM QPSK | 20.20 | 104.71 | Yes | Yes | Yes | Yes | Yes | Yes |
| SA n66 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | DFT-s-OFDM QPSK | 24.10 | 257.04 | Yes | Yes | Yes | Yes | Yes | Yes |
| NSA n7 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | DFT-s-OFDM QPSK | 18.70 | 74.13 | Yes | Yes | Yes | Yes | Yes | Yes |
| NSA n41 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | DFT-s-OFDM QPSK | 15.70 | 37.15 | Yes | Yes | Yes | Yes | Yes | Yes |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NSA n66 | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | DFT-s-OFDM QPSK | 22.60 | 181.97 | Yes | Yes | Yes | Yes | Yes | Yes |

Antenna 2

| Band | Mode | Max. Peak Power | | Test Position Configurations | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | dBm | mW | Front Side | Back Side | Left Edge | Right Edge | Top Edge | Bottom Edge |
| WLAN 2.4G (CH1) | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | 802.11b | 18.50 | 70.79 | Yes | Yes | Yes | Yes | Yes | Yes |
| | 802.11g | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11n(HT20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11n(HT40) | 19.00 | 79.43 | No | No | No | No | No | No |
| | VHT20 | 19.00 | 79.43 | No | No | No | No | No | No |
| | VHT40 | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ax(HE20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ax(HE40) | 19.00 | 79.43 | No | No | No | No | No | No |
| WLAN 5.2G (CH0) | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | 802.11a | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11n(HT20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11n(HT40) | 19.00 | 79.43 | Yes | Yes | Yes | Yes | Yes | Yes |
| | 802.11ac(VHT20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ac(VHT40) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ac(VHT80) | 11.00 | 12.59 | No | No | No | No | No | No |
| | 802.11ax(HE20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ax(HE40) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ax(HE80) | 13.00 | 19.95 | No | No | No | No | No | No |
| WLAN 5.3G (CH0) | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | 802.11a | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11n(HT20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11n(HT40) | 19.00 | 79.43 | Yes | Yes | Yes | Yes | Yes | Yes |
| | 802.11ac(VHT20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ac(VHT40) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ac(VHT80) | 10.00 | 10.00 | No | No | No | No | No | No |
| | 802.11ax(HE20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ax(HE40) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ax(HE80) | 11.50 | 14.13 | No | No | No | No | No | No |
| WLAN 5.6G (CH0) | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | 802.11a | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11n(HT20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11n(HT40) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ac(VHT20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ac(VHT40) | 19.00 | 79.43 | No | No | No | No | No | No |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 802.11ac(VHT80) | 19.00 | 79.43 | Yes | Yes | Yes | Yes | Yes | Yes |
| | 802.11ax(HE20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ax(HE40) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ax(HE80) | 19.00 | 79.43 | No | No | No | No | No | No |
| WLAN 5.8G (CH0) | Distance to User | | | <25mm | <25mm | >25mm | <25mm | <25mm | >25mm |
| | 802.11a | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11n(HT20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11n(HT40) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ac(VHT20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ac(VHT40) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ac(VHT80) | 19.00 | 79.43 | Yes | Yes | Yes | Yes | Yes | Yes |
| | 802.11ax(HE20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ax(HE40) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ax(HE80) | 19.00 | 79.43 | No | No | No | No | No | No |

Antenna 7

| Band | Mode | Max. Peak Power | | Test Position Configurations | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | dBm | mW | Front Side | Back Side | Left Edge | Right Edge | Top Edge | Bottom Edge |
| WLAN 5.2G (CH1) | Distance to User | | | <25mm | <25mm | <25mm | >25mm | <25mm | >25mm |
| | 802.11a | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11n(HT20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11n(HT40) | 19.00 | 79.43 | Yes | Yes | Yes | Yes | Yes | Yes |
| | 802.11ac(VHT20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ac(VHT40) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ac(VHT80) | 11.00 | 12.59 | No | No | No | No | No | No |
| | 802.11ax(HE20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ax(HE40) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ax(HE80) | 13.00 | 19.95 | No | No | No | No | No | No |
| WLAN 5.3G (CH1) | Distance to User | | | <25mm | <25mm | <25mm | >25mm | <25mm | >25mm |
| | 802.11a | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11n(HT20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11n(HT40) | 19.00 | 79.43 | Yes | Yes | Yes | Yes | Yes | Yes |
| | 802.11ac(VHT20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ac(VHT40) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ac(VHT80) | 10.00 | 10.00 | No | No | No | No | No | No |
| | 802.11ax(HE20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ax(HE40) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ax(HE80) | 11.50 | 14.13 | No | No | No | No | No | No |
| WLAN 5.6G (CH1) | Distance to User | | | <25mm | <25mm | <25mm | >25mm | <25mm | >25mm |
| | 802.11a | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11n(HT20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11n(HT40) | 19.00 | 79.43 | No | No | No | No | No | No |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 802.11ac(VHT20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ac(VHT40) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ac(VHT80) | 19.00 | 79.43 | Yes | Yes | Yes | Yes | Yes | Yes |
| | 802.11ax(HE20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ax(HE40) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ax(HE80) | 19.00 | 79.43 | No | No | No | No | No | No |
| WLAN 5.8G (CH1) | Distance to User | | | <25mm | <25mm | <25mm | >25mm | <25mm | >25mm |
| | 802.11a | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11n(HT20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11n(HT40) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ac(VHT20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ac(VHT40) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ac(VHT80) | 19.00 | 79.43 | Yes | Yes | Yes | Yes | Yes | Yes |
| | 802.11ax(HE20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ax(HE40) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ax(HE80) | 19.00 | 79.43 | No | No | No | No | No | No |

Antenna 8

| Band | Mode | Max. Peak Power | | Test Position Configurations | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | dBm | mW | Front Side | Back Side | Left Edge | Right Edge | Top Edge | Bottom Edge |
| WLAN 2.4G (CH0) | Distance to User | | | <25mm | <25mm | <25mm | >25mm | <25mm | >25mm |
| | 802.11b | 18.50 | 70.79 | Yes | Yes | Yes | Yes | Yes | Yes |
| | 802.11g | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11n(HT20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11n(HT40) | 19.00 | 79.43 | No | No | No | No | No | No |
| | VHT20 | 19.00 | 79.43 | No | No | No | No | No | No |
| | VHT40 | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ax(HE20) | 19.00 | 79.43 | No | No | No | No | No | No |
| | 802.11ax(HE40) | 19.00 | 79.43 | No | No | No | No | No | No |
| Bluetooth | Distance to User | | | <25mm | <25mm | <25mm | >25mm | <25mm | >25mm |
| | BR+EDR | 15.00 | 31.62 | Yes | Yes | Yes | Yes | Yes | Yes |
| | BLE | 7.00 | 5.01 | No | No | No | No | No | No |

Note:

1. Maximum power is the source-based time-average power and represents the maximum RF output power including tune-up tolerance among production units
2. Per KDB 447498 D04, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. Per KDB 447498 D04, standalone SAR test exclusion threshold is applied; If the distance of the antenna to the user is < 5mm, 5mm is used to determine SAR exclusion threshold.
4. Per KDB 447498 D04, for separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive), the threshold Pth (mW) is given by Following:

$$P_{th}(mW) = \begin{cases} ERP_{20cm}(d/20cm)^x & d \le 20cm \\ ERP_{20cm} & 20cm < d \le 40cm \end{cases}$$

where

$$x = -log_{10}\left(\frac{60}{ERP_{20cm}\sqrt{f}}\right)$$

   a. f(GHz) is the RF channel transmit frequency in GHz
   b. d is the separation distance (cm), The result is rounded to one decimal place for comparison
   c. $\boldsymbol{ERP_{20cm}}$ are determined by:

$$ERP_{20cm}(mW) = f(x) = \begin{cases} 2040f & 0.3GHz \le f < 1.5GHz \\ 3060 & 1.5GHz \le f \le 6GHz \end{cases}$$

5. Per KDB 941225 D01, RMC 12.2kbps setting is used to evaluate SAR. If HSDPA /HSUPA /DC-HSDPA output power is < 0.25dB higher than RMC12.2Kbps, or reported SAR with RMC 12.2kbps setting is ≤ 1.2W/kg, HSDPA/HSUPA/DC-HSDPA SAR evaluation can be excluded.
6. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion.8. For each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is less than 1/4dB higher than those measured at the lowest data rate
7. Per KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions.
   a. When KDB Publication 447498 D01 SAR test exclusion applies to the OFDM configuration.
   b. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
8. Per KDB 248227 D01 SAR is not required for the following U-NII-1 and U-NII-2A bands conditions.
   a. When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, each band is tested independently for SAR.
   b. When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, each band is tested independently for SAR.

# 11 TEST RESULT

## 11.1GSM 850

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | Power Drift (dB) | 1g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head** | | | | | | | | | | | | | |
| Ant.1 | State2&4&6 | GPRS 3slots | Left Cheek | 0 | 190 | 836.6 | -0.17 | 0.151 | 30.19 | 30.50 | 1.074 | 0.162 | / |
| | State2&4&6 | | Left Tilt | 0 | 190 | 836.6 | -0.11 | 0.086 | 30.19 | 30.50 | 1.074 | 0.092 | / |
| | State2&4&6 | | Right Cheek | 0 | 190 | 836.6 | -0.04 | 0.387 | 30.19 | 30.50 | 1.074 | **0.416** | 1# |
| | State2&4&6 | | Right Tilt | 0 | 190 | 836.6 | 0.12 | 0.170 | 30.19 | 30.50 | 1.074 | 0.183 | / |
| Ant.0 | State2&4&6 | GPRS 3slots | Left Cheek | 0 | 190 | 836.6 | -0.12 | 0.178 | 30.44 | 30.50 | 1.014 | 0.180 | / |
| | State2&4&6 | | Left Tilt | 0 | 190 | 836.6 | -0.06 | 0.102 | 30.44 | 30.50 | 1.014 | 0.103 | / |
| | State2&4&6 | | Right Cheek | 0 | 190 | 836.6 | 0.02 | 0.164 | 30.44 | 30.50 | 1.014 | 0.166 | / |
| | State2&4&6 | | Right Tilt | 0 | 190 | 836.6 | -0.16 | 0.096 | 30.44 | 30.50 | 1.014 | 0.097 | / |
| **Body-worn** | | | | | | | | | | | | | |
| Ant.1 | State1&3&5 | GPRS 3slots | Front Side | 15 | 190 | 836.6 | 0.13 | 0.044 | 30.19 | 30.50 | 1.074 | 0.047 | / |
| | State1&3&5 | | Back Side | 15 | 190 | 836.6 | -0.14 | 0.063 | 30.19 | 30.50 | 1.074 | 0.068 | / |
| Ant.0 | State1&3&5 | GPRS 3slots | Front Side | 15 | 190 | 836.6 | 0.00 | 0.160 | 30.44 | 30.50 | 1.014 | **0.162** | 2# |
| | State1&3&5 | | Back Side | 15 | 190 | 836.6 | 0.02 | 0.127 | 30.44 | 30.50 | 1.014 | 0.129 | / |
| **Hotspot** | | | | | | | | | | | | | |
| Ant.1 | State1&3&5 | GPRS 3slots | Front Side | 10 | 190 | 836.6 | 0.11 | 0.088 | 30.19 | 30.50 | 1.074 | 0.095 | / |
| | State1&3&5 | | Back Side | 10 | 190 | 836.6 | -0.17 | 0.129 | 30.19 | 30.50 | 1.074 | 0.139 | / |
| | State1&3&5 | | Left Edge | 10 | 190 | 836.6 | -0.15 | 0.011 | 30.19 | 30.50 | 1.074 | 0.012 | / |
| | State1&3&5 | | Right Edge | 10 | 190 | 836.6 | 0.02 | 0.161 | 30.19 | 30.50 | 1.074 | 0.173 | / |
| | State1&3&5 | | Top Edge | 10 | 190 | 836.6 | -0.02 | 0.006 | 30.19 | 30.50 | 1.074 | 0.006 | / |
| | State1&3&5 | | Bottom Edge | 10 | 190 | 836.6 | 0.15 | 0.012 | 30.19 | 30.50 | 1.074 | 0.013 | / |
| Ant.0 | State1&3&5 | GPRS 3slots | Front Side | 10 | 190 | 836.6 | -0.11 | 0.214 | 30.44 | 30.50 | 1.014 | 0.217 | / |
| | State1&3&5 | | Back Side | 10 | 190 | 836.6 | -0.01 | 0.325 | 30.44 | 30.50 | 1.014 | **0.330** | 3# |
| | State1&3&5 | | Left Edge | 10 | 190 | 836.6 | -0.06 | 0.054 | 30.44 | 30.50 | 1.014 | 0.055 | / |
| | State1&3&5 | | Right Edge | 10 | 190 | 836.6 | -0.15 | 0.185 | 30.44 | 30.50 | 1.014 | 0.188 | / |
| | State1&3&5 | | Top Edge | 10 | 190 | 836.6 | -0.01 | 0.000 | 30.44 | 30.50 | 1.014 | 0.000 | / |
| | State1&3&5 | | Bottom Edge | 10 | 190 | 836.6 | 0.14 | 0.238 | 30.44 | 30.50 | 1.014 | 0.241 | / |

Note: Refer to ANNEX C for the detailed test data for each test configuration.

## 11.2 GSM 1900

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | Power Drift (dB) | 1g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head** | | | | | | | | | | | | | |
| Ant.4 | State2&4 | GPRS 3slots | Left Cheek | 0 | 810 | 1909.8 | 0.10 | 0.028 | 21.74 | 22.50 | 1.191 | 0.033 | / |
| | State2&4 | | Left Tilt | 0 | 810 | 1909.8 | 0.17 | 0.019 | 21.74 | 22.50 | 1.191 | 0.023 | / |
| | State2&4 | | Right Cheek | 0 | 810 | 1909.8 | -0.17 | 0.541 | 21.74 | 22.50 | 1.191 | 0.644 | / |
| | State2&4 | | Right Tilt | 0 | 810 | 1909.8 | 0.02 | 0.765 | 21.74 | 22.50 | 1.191 | **0.911** | 4# |
| | State2&4 | | | 0 | 512 | 1850.2 | 0.03 | 0.674 | 21.28 | 22.50 | 1.324 | 0.892 | / |
| | State2&4 | | | 0 | 661 | 1880 | 0.02 | 0.711 | 21.49 | 22.50 | 1.262 | 0.897 | / |
| Ant.4 | State6 | GPRS 3slots | Left Cheek | 0 | 512 | 1850.2 | -0.10 | 0.022 | 20.78 | 21.50 | 1.180 | 0.026 | / |
| | State6 | | Left Tilt | 0 | 512 | 1850.2 | -0.13 | 0.015 | 20.78 | 21.50 | 1.180 | 0.018 | / |
| | State6 | | Right Cheek | 0 | 512 | 1850.2 | -0.11 | 0.430 | 20.78 | 21.50 | 1.180 | 0.507 | / |
| | State6 | | Right Tilt | 0 | 512 | 1850.2 | 0.16 | 0.573 | 20.78 | 21.50 | 1.180 | 0.676 | / |
| Ant.3 | State2&4&6 | GPRS 3slots | Left Cheek | 0 | 512 | 1850.2 | -0.09 | 0.092 | 26.76 | 27.50 | 1.186 | 0.109 | / |
| | State2&4&6 | | Left Tilt | 0 | 512 | 1850.2 | 0.09 | 0.062 | 26.76 | 27.50 | 1.186 | 0.074 | / |
| | State2&4&6 | | Right Cheek | 0 | 512 | 1850.2 | -0.16 | 0.087 | 26.76 | 27.50 | 1.186 | 0.103 | / |
| | State2&4&6 | | Right Tilt | 0 | 512 | 1850.2 | 0.07 | 0.057 | 26.76 | 27.50 | 1.186 | 0.068 | / |
| **Body-worn** | | | | | | | | | | | | | |
| Ant.4 | State1 | GPRS 3slots | Front Side | 15 | 512 | 1850.2 | 0.00 | 0.125 | 25.21 | 26.00 | 1.199 | 0.150 | / |
| | State1 | | Back Side | 15 | 512 | 1850.2 | 0.00 | 0.189 | 25.21 | 26.00 | 1.199 | **0.227** | 5# |
| Ant.4 | State3&5 | GPRS 3slots | Front Side | 15 | 512 | 1850.2 | 0.15 | 0.088 | 23.73 | 24.50 | 1.194 | 0.105 | / |
| | State3&5 | | Back Side | 15 | 512 | 1850.2 | 0.09 | 0.103 | 23.73 | 24.50 | 1.194 | 0.123 | / |
| Ant.3 | State1&3 | GPRS 3slots | Front Side | 15 | 512 | 1850.2 | 0.02 | 0.123 | 25.44 | 26.50 | 1.276 | 0.157 | / |
| | State1&3 | | Back Side | 15 | 512 | 1850.2 | 0.02 | 0.143 | 25.44 | 26.50 | 1.276 | 0.182 | / |
| Ant.3 | State5 | GPRS 3slots | Front Side | 15 | 512 | 1850.2 | 0.03 | 0.087 | 23.92 | 25.00 | 1.282 | 0.112 | / |
| | State5 | | Back Side | 15 | 512 | 1850.2 | 0.13 | 0.101 | 23.92 | 25.00 | 1.282 | 0.129 | / |
| **Hotspot** | | | | | | | | | | | | | |
| Ant.4 | State3&5 | GPRS 3slots | Front Side | 10 | 512 | 1850.2 | -0.17 | 0.171 | 23.73 | 24.50 | 1.194 | 0.204 | / |
| | State3&5 | | Back Side | 10 | 512 | 1850.2 | -0.03 | 0.193 | 23.73 | 24.50 | 1.194 | 0.230 | / |
| | State3&5 | | Left Edge | 10 | 512 | 1850.2 | 0.02 | 0.101 | 23.73 | 24.50 | 1.194 | 0.121 | / |
| | State3&5 | | Right Edge | 10 | 512 | 1850.2 | -0.19 | 0.036 | 23.73 | 24.50 | 1.194 | 0.043 | / |
| | State3&5 | | Top Edge | 10 | 512 | 1850.2 | -0.09 | 0.432 | 23.73 | 24.50 | 1.194 | 0.516 | / |
| | State3&5 | | Bottom Edge | 10 | 512 | 1850.2 | 0.13 | 0.004 | 23.73 | 24.50 | 1.194 | 0.005 | / |
| Ant.3 | State1&3 | GPRS 3slots | Front Side | 10 | 512 | 1850.2 | 0.15 | 0.224 | 25.44 | 26.50 | 1.276 | 0.286 | / |
| | State1&3 | | Back Side | 10 | 512 | 1850.2 | 0.11 | 0.284 | 25.44 | 26.50 | 1.276 | 0.362 | / |
| | State1&3 | | Left Edge | 10 | 512 | 1850.2 | 0.15 | 0.080 | 25.44 | 26.50 | 1.276 | 0.102 | / |
| | State1&3 | | Right Edge | 10 | 512 | 1850.2 | 0.16 | 0.092 | 25.44 | 26.50 | 1.276 | 0.117 | / |
| | State1&3 | | Top Edge | 10 | 512 | 1850.2 | -0.10 | 0.016 | 25.44 | 26.50 | 1.276 | 0.020 | / |
| | State1&3 | | Bottom Edge | 10 | 512 | 1850.2 | -0.05 | 0.654 | 25.44 | 26.50 | 1.276 | **0.835** | 6# |
| | State1&3 | | | 10 | 661 | 1850.2 | 0.03 | 0.621 | 25.25 | 26.50 | 1.334 | 0.828 | / |
| | State1&3 | | | 10 | 810 | 1850.2 | 0.01 | 0.574 | 25.01 | 26.50 | 1.409 | 0.809 | / |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ant.3 | State5 | GPRS 3slots | Front Side | 10 | 512 | 1850.2 | -0.06 | 0.159 | 23.92 | 25.00 | 1.282 | 0.204 | / |
| | State5 | | Back Side | 10 | 512 | 1850.2 | -0.06 | 0.201 | 23.92 | 25.00 | 1.282 | 0.258 | / |
| | State5 | | Left Edge | 10 | 512 | 1850.2 | 0.06 | 0.057 | 23.92 | 25.00 | 1.282 | 0.073 | / |
| | State5 | | Right Edge | 10 | 512 | 1850.2 | 0.12 | 0.065 | 23.92 | 25.00 | 1.282 | 0.083 | / |
| | State5 | | Top Edge | 10 | 512 | 1850.2 | -0.17 | 0.011 | 23.92 | 25.00 | 1.282 | 0.014 | / |
| | State5 | | Bottom Edge | 10 | 512 | 1850.2 | 0.12 | 0.406 | 23.92 | 25.00 | 1.282 | 0.520 | / |
| Note: Refer to ANNEX C for the detailed test data for each test configuration. | | | | | | | | | | | | | |

## 11.3WCDMA Band 2

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | Power Drift (dB) | 1g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head** | | | | | | | | | | | | | |
| Ant.4 | State2&4 | RMC | Left Cheek | 0 | 9400 | 1880 | 0.01 | 0.411 | 19.53 | 21.00 | 1.403 | 0.577 | / |
| | State2&4 | | Left Tilt | 0 | 9400 | 1880 | -0.15 | 0.506 | 19.53 | 21.00 | 1.403 | 0.710 | / |
| | State2&4 | | Right Cheek | 0 | 9400 | 1880 | -0.09 | 0.711 | 19.53 | 21.00 | 1.403 | 0.998 | / |
| | State2&4 | | Right Tilt | 0 | 9400 | 1880 | 0.01 | 0.534 | 19.53 | 21.00 | 1.403 | 0.749 | / |
| | State2&4 | | Right Cheek | 0 | 9262 | 1852.4 | 0.02 | 0.623 | 19.43 | 21.00 | 1.435 | 0.894 | / |
| | State2&4 | | Right Cheek | 0 | 9538 | 1907.6 | 0.01 | 0.732 | 19.52 | 21.00 | 1.406 | **1.029** | 7# |
| Ant.4 | State6 | RMC | Left Cheek | 0 | 9400 | 1880 | 0.02 | 0.344 | 18.49 | 20.00 | 1.416 | 0.487 | / |
| | State6 | | Left Tilt | 0 | 9400 | 1880 | -0.04 | 0.385 | 18.49 | 20.00 | 1.416 | 0.545 | / |
| | State6 | | Right Cheek | 0 | 9400 | 1880 | 0.06 | 0.543 | 18.49 | 20.00 | 1.416 | 0.769 | / |
| | State6 | | Right Tilt | 0 | 9400 | 1880 | 0.14 | 0.403 | 18.49 | 20.00 | 1.416 | 0.571 | / |
| Ant.3 | State2&4&6 | RMC | Left Cheek | 0 | 9400 | 1880 | -0.07 | 0.068 | 23.37 | 24.00 | 1.156 | 0.079 | / |
| | State2&4&6 | | Left Tilt | 0 | 9400 | 1880 | 0.10 | 0.023 | 23.37 | 24.00 | 1.156 | 0.027 | / |
| | State2&4&6 | | Right Cheek | 0 | 9400 | 1880 | 0.02 | 0.075 | 23.37 | 24.00 | 1.156 | 0.087 | / |
| | State2&4&6 | | Right Tilt | 0 | 9400 | 1880 | 0.03 | 0.040 | 23.37 | 24.00 | 1.156 | 0.046 | / |
| **Body-worn** | | | | | | | | | | | | | |
| Ant.4 | State1&3&5 | RMC | Front Side | 15 | 9400 | 1880 | -0.18 | 0.221 | 22.90 | 24.00 | 1.288 | 0.285 | / |
| | State1&3&5 | | Back Side | 15 | 9400 | 1880 | 0.00 | 0.255 | 22.90 | 24.00 | 1.288 | **0.328** | 8# |
| Ant.3 | State1&3 | RMC | Front Side | 15 | 9400 | 1880 | 0.12 | 0.134 | 22.68 | 23.50 | 1.208 | 0.162 | / |
| | State1&3 | | Back Side | 15 | 9400 | 1880 | 0.17 | 0.197 | 22.68 | 23.50 | 1.208 | 0.238 | / |
| Ant.3 | State5 | RMC | Front Side | 15 | 9400 | 1880 | -0.10 | 0.095 | 21.16 | 22.00 | 1.213 | 0.115 | / |
| | State5 | | Back Side | 15 | 9400 | 1880 | -0.05 | 0.139 | 21.16 | 22.00 | 1.213 | 0.169 | / |
| **Hotspot** | | | | | | | | | | | | | |
| Ant.4 | State1&3&5 | RMC | Front Side | 10 | 9400 | 1880 | 0.16 | 0.343 | 21.13 | 22.50 | 1.371 | 0.470 | / |
| | State1&3&5 | | Back Side | 10 | 9400 | 1880 | -0.03 | 0.334 | 21.13 | 22.50 | 1.371 | 0.458 | / |
| | State1&3&5 | | Left Edge | 10 | 9400 | 1880 | 0.19 | 0.102 | 21.13 | 22.50 | 1.371 | 0.140 | / |
| | State1&3&5 | | Right Edge | 10 | 9400 | 1880 | -0.12 | 0.287 | 21.13 | 22.50 | 1.371 | 0.393 | / |
| | State1&3&5 | | Top Edge | 10 | 9400 | 1880 | 0.00 | 0.688 | 21.13 | 22.50 | 1.371 | **0.943** | 9# |
| | State1&3&5 | | Bottom Edge | 10 | 9400 | 1880 | -0.17 | 0.011 | 21.13 | 22.50 | 1.371 | 0.015 | / |
| | State1&3&5 | | Top Edge | 10 | 9262 | 1852.4 | 0.01 | 0.665 | 21.03 | 22.50 | 1.403 | 0.933 | / |
| | State1&3&5 | | Top Edge | 10 | 9538 | 1907.6 | -0.04 | 0.659 | 21.08 | 22.50 | 1.387 | 0.914 | / |
| Ant.3 | State1&3 | RMC | Front Side | 10 | 9400 | 1880 | 0.01 | 0.241 | 22.68 | 23.50 | 1.208 | 0.291 | / |
| | State1&3 | | Back Side | 10 | 9400 | 1880 | -0.10 | 0.323 | 22.68 | 23.50 | 1.208 | 0.390 | / |
| | State1&3 | | Left Edge | 10 | 9400 | 1880 | -0.06 | 0.116 | 22.68 | 23.50 | 1.208 | 0.140 | / |
| | State1&3 | | Right Edge | 10 | 9400 | 1880 | 0.02 | 0.062 | 22.68 | 23.50 | 1.208 | 0.075 | / |
| | State1&3 | | Top Edge | 10 | 9400 | 1880 | -0.17 | 0.006 | 22.68 | 23.50 | 1.208 | 0.007 | / |
| | State1&3 | | Bottom Edge | 10 | 9400 | 1880 | -0.02 | 0.665 | 22.68 | 23.50 | 1.208 | 0.803 | / |
| | State1&3 | | | 10 | 9262 | 1852.4 | 0.00 | 0.641 | 22.54 | 23.50 | 1.247 | 0.799 | / |
| | State1&3 | | | 10 | 9538 | 1907.6 | 0.16 | 0.634 | 22.63 | 23.50 | 1.222 | 0.775 | / |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ant.3 | State 5 | RMC | Front Side | 10 | 9400 | 1880 | 0.19 | 0.182 | 21.16 | 22.00 | 1.213 | 0.221 | / |
| | State 5 | | Back Side | 10 | 9400 | 1880 | 0.02 | 0.232 | 21.16 | 22.00 | 1.213 | 0.281 | / |
| | State 5 | | Left Edge | 10 | 9400 | 1880 | -0.02 | 0.074 | 21.16 | 22.00 | 1.213 | 0.090 | / |
| | State 5 | | Right Edge | 10 | 9400 | 1880 | 0.09 | 0.051 | 21.16 | 22.00 | 1.213 | 0.062 | / |
| | State 5 | | Top Edge | 10 | 9400 | 1880 | 0.14 | 0.002 | 21.16 | 22.00 | 1.213 | 0.002 | / |
| | State 5 | | Bottom Edge | 10 | 9400 | 1880 | -0.13 | 0.488 | 21.16 | 22.00 | 1.213 | 0.592 | / |
| Note: Refer to ANNEX C for the detailed test data for each test configuration. | | | | | | | | | | | | | |

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | Power Drift (dB) | 10g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 10g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Specific** | | | | | | | | | | | | | |
| Ant.4 | State1&3&5 | RMC | Top Edge | 0 | 9400 | 1880 | -0.07 | 1.730 | 21.13 | 22.50 | 1.371 | **2.372** | 10# |
| | State1&3&5 | | | 0 | 9262 | 1852.4 | 0.11 | 1.650 | 21.03 | 22.50 | 1.403 | 2.315 | / |
| | State1&3&5 | | | 0 | 9538 | 1907.6 | 0.14 | 1.680 | 21.08 | 22.50 | 1.387 | 2.330 | / |
| Note: Refer to ANNEX C for the detailed test data for each test configuration. | | | | | | | | | | | | | |

## 11.4WCDMA Band 4

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | Power Drift (dB) | 1g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head** | | | | | | | | | | | | | |
| Ant.4 | State2&4 | RMC | Left Cheek | 0 | 1513 | 1752.6 | 0.12 | 0.200 | 16.68 | 18.00 | 1.355 | 0.271 | / |
| | State2&4 | | Left Tilt | 0 | 1513 | 1752.6 | 0.12 | 0.264 | 16.68 | 18.00 | 1.355 | 0.358 | / |
| | State2&4 | | Right Cheek | 0 | 1513 | 1752.6 | -0.08 | 0.311 | 16.68 | 18.00 | 1.355 | 0.421 | / |
| | State2&4 | | Right Tilt | 0 | 1312 | 1712.4 | 0.18 | 0.322 | 16.68 | 18.00 | 1.355 | 0.436 | / |
| | State2&4 | | | 0 | 1412 | 1732.4 | -0.10 | 0.347 | 16.68 | 18.00 | 1.355 | 0.470 | / |
| | State2&4 | | | 0 | 1513 | 1752.6 | 0.01 | 0.370 | 16.68 | 18.00 | 1.355 | **0.501** | 11# |
| Ant.4 | State6 | RMC | Left Cheek | 0 | 1513 | 1752.6 | 0.00 | 0.159 | 15.66 | 17.00 | 1.361 | 0.216 | / |
| | State6 | | Left Tilt | 0 | 1513 | 1752.6 | 0.08 | 0.210 | 15.66 | 17.00 | 1.361 | 0.286 | / |
| | State6 | | Right Cheek | 0 | 1513 | 1752.6 | 0.09 | 0.247 | 15.66 | 17.00 | 1.361 | 0.336 | / |
| | State6 | | Right Tilt | 0 | 1513 | 1752.6 | 0.16 | 0.255 | 15.66 | 17.00 | 1.361 | 0.347 | / |
| Ant.3 | State2&4&6 | RMC | Left Cheek | 0 | 1312 | 1712.4 | -0.19 | 0.112 | 23.29 | 24.00 | 1.178 | 0.132 | / |
| | State2&4&6 | | Left Tilt | 0 | 1312 | 1712.4 | -0.03 | 0.000 | 23.29 | 24.00 | 1.178 | 0.000 | / |
| | State2&4&6 | | Right Cheek | 0 | 1312 | 1712.4 | 0.18 | 0.119 | 23.29 | 24.00 | 1.178 | 0.140 | / |
| | State2&4&6 | | Right Tilt | 0 | 1312 | 1712.4 | 0.01 | 0.050 | 23.29 | 24.00 | 1.178 | 0.059 | / |
| **Body-worn** | | | | | | | | | | | | | |
| Ant.4 | State1 | RMC | Front Side | 15 | 1312 | 1712.4 | -0.15 | 0.093 | 22.91 | 24.00 | 1.285 | 0.120 | / |
| | State1 | | Back Side | 15 | 1312 | 1712.4 | 0.04 | 0.103 | 22.91 | 24.00 | 1.285 | 0.132 | / |
| Ant.4 | State3&5 | RMC | Front Side | 15 | 1312 | 1712.4 | 0.03 | 0.062 | 21.60 | 23.00 | 1.380 | 0.086 | / |
| | State3&5 | | Back Side | 15 | 1312 | 1712.4 | 0.11 | 0.067 | 21.60 | 23.00 | 1.380 | 0.092 | / |
| Ant.3 | State1&3 | RMC | Front Side | 15 | 1312 | 1712.4 | 0.09 | 0.121 | 21.11 | 22.00 | 1.227 | 0.148 | / |
| | State1&3 | | Back Side | 15 | 1312 | 1712.4 | -0.02 | 0.159 | 21.11 | 22.00 | 1.227 | **0.195** | 12# |
| Ant.3 | State5 | RMC | Front Side | 15 | 1312 | 1712.4 | 0.16 | 0.076 | 19.05 | 20.00 | 1.245 | 0.095 | / |
| | State5 | | Back Side | 15 | 1312 | 1712.4 | 0.11 | 0.107 | 19.05 | 20.00 | 1.245 | 0.133 | / |
| **Hotspot** | | | | | | | | | | | | | |
| Ant.4 | State3&5 | RMC | Front Side | 10 | 1312 | 1712.4 | 0.06 | 0.121 | 21.60 | 23.00 | 1.380 | 0.167 | / |
| | State3&5 | | Back Side | 10 | 1312 | 1712.4 | 0.18 | 0.137 | 21.60 | 23.00 | 1.380 | 0.189 | / |
| | State3&5 | | Left Edge | 10 | 1312 | 1712.4 | 0.08 | 0.030 | 21.60 | 23.00 | 1.380 | 0.041 | / |
| | State3&5 | | Right Edge | 10 | 1312 | 1712.4 | 0.18 | 0.065 | 21.60 | 23.00 | 1.380 | 0.090 | / |
| | State3&5 | | Top Edge | 10 | 1312 | 1712.4 | 0.02 | 0.262 | 21.60 | 23.00 | 1.380 | 0.362 | / |
| | State3&5 | | Bottom Edge | 10 | 1312 | 1712.4 | 0.10 | 0.013 | 21.60 | 23.00 | 1.380 | 0.018 | / |
| Ant.3 | State1&3 | RMC | Front Side | 10 | 1312 | 1712.4 | 0.11 | 0.333 | 21.11 | 22.00 | 1.227 | 0.409 | / |
| | State1&3 | | Back Side | 10 | 1312 | 1712.4 | 0.02 | 0.398 | 21.11 | 22.00 | 1.227 | 0.488 | / |
| | State1&3 | | Left Edge | 10 | 1312 | 1712.4 | -0.17 | 0.112 | 21.11 | 22.00 | 1.227 | 0.137 | / |
| | State1&3 | | Right Edge | 10 | 1312 | 1712.4 | -0.08 | 0.085 | 21.11 | 22.00 | 1.227 | 0.104 | / |
| | State1&3 | | Top Edge | 10 | 1312 | 1712.4 | -0.17 | 0.023 | 21.11 | 22.00 | 1.227 | 0.028 | / |
| | State1&3 | | Bottom Edge | 10 | 1312 | 1712.4 | 0.01 | 0.779 | 21.11 | 22.00 | 1.227 | **0.956** | 13# |
| | State1&3 | | | 10 | 1412 | 1732.4 | 0.03 | 0.711 | 21.08 | 22.00 | 1.236 | 0.879 | / |
| | State1&3 | | | 10 | 1513 | 1752.6 | 0.08 | 0.734 | 20.98 | 22.00 | 1.265 | 0.929 | / |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ant.3 | State5 | RMC | Front Side | 10 | 1312 | 1712.4 | 0.05 | 0.210 | 19.05 | 20.00 | 1.245 | 0.261 | / |
| | State5 | | Back Side | 10 | 1312 | 1712.4 | -0.04 | 0.251 | 19.05 | 20.00 | 1.245 | 0.312 | / |
| | State5 | | Left Edge | 10 | 1312 | 1712.4 | 0.04 | 0.070 | 19.05 | 20.00 | 1.245 | 0.087 | / |
| | State5 | | Right Edge | 10 | 1312 | 1712.4 | -0.03 | 0.054 | 19.05 | 20.00 | 1.245 | 0.067 | / |
| | State5 | | Top Edge | 10 | 1312 | 1712.4 | 0.14 | 0.015 | 19.05 | 20.00 | 1.245 | 0.019 | / |
| | State5 | | Bottom Edge | 10 | 1312 | 1712.4 | 0.05 | 0.502 | 19.05 | 20.00 | 1.245 | 0.625 | / |
| Note: Refer to ANNEX C for the detailed test data for each test configuration. | | | | | | | | | | | | | |

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | Power Drift (dB) | 10g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 10g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Specific** | | | | | | | | | | | | | |
| Ant.3 | State1&3 | RMC | Bottom Edge | 0 | 1312 | 1712.4 | -0.05 | 1.590 | 21.11 | 22.00 | 1.227 | **1.951** | 14# |
| | State1&3 | | | 0 | 1412 | 1732.4 | 0.03 | 1.440 | 21.08 | 22.00 | 1.236 | 1.780 | / |
| | State1&3 | | | 0 | 1513 | 1752.6 | 0.01 | 1.530 | 20.98 | 22.00 | 1.265 | 1.935 | / |
| Note: Refer to ANNEX C for the detailed test data for each test configuration. | | | | | | | | | | | | | |

# 11.5WCDMA Band 5

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | Power Drift (dB) | 1g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head** | | | | | | | | | | | | | |
| Ant.1 | State2&4&6 | RMC | Left Cheek | 0 | 4132 | 826.4 | -0.09 | 0.112 | 23.40 | 24.50 | 1.288 | 0.144 | / |
| | State2&4&6 | | Left Tilt | 0 | 4132 | 826.4 | -0.01 | 0.063 | 23.40 | 24.50 | 1.288 | 0.081 | / |
| | State2&4&6 | | Right Cheek | 0 | 4132 | 826.4 | 0.01 | 0.232 | 23.40 | 24.50 | 1.288 | **0.299** | 15# |
| | State2&4&6 | | Right Tilt | 0 | 4132 | 826.4 | -0.13 | 0.124 | 23.40 | 24.50 | 1.288 | 0.160 | / |
| Ant.0 | State2&4&6 | RMC | Left Cheek | 0 | 4182 | 836.4 | 0.11 | 0.101 | 23.68 | 24.50 | 1.208 | 0.122 | / |
| | State2&4&6 | | Left Tilt | 0 | 4182 | 836.4 | 0.19 | 0.058 | 23.68 | 24.50 | 1.208 | 0.070 | / |
| | State2&4&6 | | Right Cheek | 0 | 4182 | 836.4 | 0.00 | 0.074 | 23.68 | 24.50 | 1.208 | 0.089 | / |
| | State2&4&6 | | Right Tilt | 0 | 4182 | 836.4 | -0.02 | 0.034 | 23.68 | 24.50 | 1.208 | 0.041 | / |
| **Body-worn** | | | | | | | | | | | | | |
| Ant.1 | State1&3&5 | RMC | Front Side | 15 | 4182 | 836.4 | -0.18 | 0.048 | 23.40 | 24.50 | 1.288 | 0.062 | / |
| | State1&3&5 | | Back Side | 15 | 4182 | 836.4 | -0.05 | 0.068 | 23.40 | 24.50 | 1.288 | 0.088 | / |
| Ant.0 | State1&3&5 | RMC | Front Side | 15 | 4182 | 836.4 | -0.16 | 0.081 | 23.68 | 24.50 | 1.208 | 0.098 | / |
| | State1&3&5 | | Back Side | 15 | 4182 | 836.4 | -0.02 | 0.113 | 23.68 | 24.50 | 1.208 | **0.137** | 16# |
| **Hotspot** | | | | | | | | | | | | | |
| Ant.1 | State1&3&5 | RMC | Front Side | 10 | 4182 | 836.4 | -0.09 | 0.097 | 23.40 | 24.50 | 1.288 | 0.125 | / |
| | State1&3&5 | | Back Side | 10 | 4182 | 836.4 | 0.12 | 0.128 | 23.40 | 24.50 | 1.288 | 0.165 | / |
| | State1&3&5 | | Left Edge | 10 | 4182 | 836.4 | 0.17 | 0.023 | 23.40 | 24.50 | 1.288 | 0.030 | / |
| | State1&3&5 | | Right Edge | 10 | 4182 | 836.4 | 0.00 | 0.177 | 23.40 | 24.50 | 1.288 | 0.228 | / |
| | State1&3&5 | | Top Edge | 10 | 4182 | 836.4 | -0.02 | 0.011 | 23.40 | 24.50 | 1.288 | 0.014 | / |
| | State1&3&5 | | Bottom Edge | 10 | 4182 | 836.4 | -0.14 | 0.008 | 23.40 | 24.50 | 1.288 | 0.010 | / |
| Ant.0 | State1&3&5 | RMC | Front Side | 10 | 4182 | 836.4 | -0.14 | 0.141 | 23.68 | 24.50 | 1.208 | 0.170 | / |
| | State1&3&5 | | Back Side | 10 | 4182 | 836.4 | -0.02 | 0.202 | 23.68 | 24.50 | 1.208 | **0.244** | 17# |
| | State1&3&5 | | Left Edge | 10 | 4182 | 836.4 | -0.14 | 0.064 | 23.68 | 24.50 | 1.208 | 0.077 | / |
| | State1&3&5 | | Right Edge | 10 | 4182 | 836.4 | 0.16 | 0.127 | 23.68 | 24.50 | 1.208 | 0.153 | / |
| | State1&3&5 | | Top Edge | 10 | 4182 | 836.4 | 0.16 | 0.001 | 23.68 | 24.50 | 1.208 | 0.001 | / |
| | State1&3&5 | | Bottom Edge | 10 | 4182 | 836.4 | 0.05 | 0.150 | 23.68 | 24.50 | 1.208 | 0.181 | / |

Note: Refer to ANNEX C for the detailed test data for each test configuration.

## 11.6 LTE Band 2 (20MHz Bandwidth)

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Num. | RB Start | Power Drift (dB) | 1g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head** | | | | | | | | | | | | | | | |
| Ant.4 | State2&4&6 | QPSK | Left Cheek | 0 | 18900 | 1880 | 1 | LOW | 0.07 | 0.336 | 16.83 | 17.50 | 1.167 | 0.392 | / |
| | State2&4&6 | | | 0 | 18900 | 1880 | 50 | HIGH | 0.04 | 0.365 | 16.84 | 17.50 | 1.164 | 0.425 | / |
| | State2&4&6 | | Left Tilt | 0 | 18900 | 1880 | 1 | LOW | -0.11 | 0.406 | 16.83 | 17.50 | 1.167 | 0.474 | / |
| | State2&4&6 | | | 0 | 18900 | 1880 | 50 | HIGH | -0.07 | 0.432 | 16.84 | 17.50 | 1.164 | 0.503 | / |
| | State2&4&6 | | Right Cheek | 0 | 18900 | 1880 | 1 | LOW | -0.15 | 0.565 | 16.83 | 17.50 | 1.167 | 0.659 | / |
| | State2&4&6 | | | 0 | 18900 | 1880 | 50 | HIGH | 0.11 | 0.606 | 16.84 | 17.50 | 1.164 | 0.705 | / |
| | State2&4&6 | | Right Tilt | 0 | 18900 | 1880 | 1 | LOW | -0.02 | 0.640 | 16.83 | 17.50 | 1.167 | **0.747** | 18# |
| | State2&4&6 | | | 0 | 18900 | 1880 | 50 | HIGH | 0.01 | 0.615 | 16.84 | 17.50 | 1.164 | 0.716 | / |
| Ant.4(ENDC) | State2&4&6 | QPSK | Left Cheek | 0 | 19100 | 1900 | 1 | HIGH | -0.03 | 0.405 | 16.92 | 17.50 | 1.143 | 0.463 | / |
| | State2&4&6 | | | 0 | 19100 | 1900 | 50 | MID | 0.18 | 0.411 | 16.90 | 17.50 | 1.148 | 0.472 | / |
| | State2&4&6 | | Left Tilt | 0 | 19100 | 1900 | 1 | HIGH | 0.02 | 0.446 | 16.92 | 17.50 | 1.143 | 0.510 | / |
| | State2&4&6 | | | 0 | 19100 | 1900 | 50 | MID | 0.01 | 0.454 | 16.90 | 17.50 | 1.148 | 0.521 | / |
| | State2&4&6 | | Right Cheek | 0 | 19100 | 1900 | 1 | HIGH | -0.03 | 0.622 | 16.92 | 17.50 | 1.143 | 0.711 | / |
| | State2&4&6 | | | 0 | 19100 | 1900 | 50 | MID | 0.16 | 0.644 | 16.90 | 17.50 | 1.148 | 0.739 | / |
| | State2&4&6 | | Right Tilt | 0 | 19100 | 1900 | 1 | HIGH | -0.17 | 0.611 | 16.92 | 17.50 | 1.143 | 0.698 | / |
| | State2&4&6 | | | 0 | 19100 | 1900 | 50 | MID | 0.01 | 0.623 | 16.90 | 17.50 | 1.148 | 0.715 | / |
| Ant.3 | State2&4&6 | QPSK | Left Cheek | 0 | 18900 | 1880 | 1 | LOW | 0.01 | 0.078 | 23.49 | 23.50 | 1.002 | 0.078 | / |
| | State2&4&6 | | | 0 | 18900 | 1880 | 50 | MID | 0.15 | 0.079 | 22.47 | 22.50 | 1.007 | 0.080 | / |
| | State2&4&6 | | Left Tilt | 0 | 18900 | 1880 | 1 | LOW | 0.02 | 0.012 | 23.49 | 23.50 | 1.002 | 0.012 | / |
| | State2&4&6 | | | 0 | 18900 | 1880 | 50 | MID | -0.05 | 0.011 | 22.47 | 22.50 | 1.007 | 0.011 | / |
| | State2&4&6 | | Right Cheek | 0 | 18900 | 1880 | 1 | LOW | 0.04 | 0.074 | 23.49 | 23.50 | 1.002 | 0.074 | / |
| | State2&4&6 | | | 0 | 18900 | 1880 | 50 | MID | 0.15 | 0.056 | 22.47 | 22.50 | 1.007 | 0.056 | / |
| | State2&4&6 | | Right Tilt | 0 | 18900 | 1880 | 1 | LOW | 0.10 | 0.041 | 23.49 | 23.50 | 1.002 | 0.041 | / |
| | State2&4&6 | | | 0 | 18900 | 1880 | 50 | MID | 0.06 | 0.031 | 22.47 | 22.50 | 1.007 | 0.031 | / |
| **Body-worn** | | | | | | | | | | | | | | | |
| Ant.4 | State1&3&5 | QPSK | Front Side | 15 | 19100 | 1900 | 1 | LOW | -0.05 | 0.231 | 20.73 | 21.50 | 1.194 | 0.276 | / |
| | State1&3&5 | | | 15 | 19100 | 1900 | 50 | MID | 0.04 | 0.241 | 20.73 | 21.50 | 1.194 | 0.288 | / |
| | State1&3&5 | | Back Side | 15 | 19100 | 1900 | 1 | LOW | 0.15 | 0.255 | 20.73 | 21.50 | 1.194 | 0.304 | / |
| | State1&3&5 | | | 15 | 19100 | 1900 | 50 | MID | -0.01 | 0.271 | 20.73 | 21.50 | 1.194 | **0.324** | 19# |
| Ant.4(ENDC) | State1&3&5 | QPSK | Front Side | 15 | 19100 | 1900 | 1 | MID | 0.17 | 0.099 | 18.83 | 19.00 | 1.040 | 0.103 | / |
| | State1&3&5 | | | 15 | 19100 | 1900 | 50 | LOW | 0.02 | 0.098 | 18.82 | 19.00 | 1.042 | 0.102 | / |
| | State1&3&5 | | Back Side | 15 | 19100 | 1900 | 1 | MID | -0.08 | 0.105 | 18.83 | 19.00 | 1.040 | 0.109 | / |
| | State1&3&5 | | | 15 | 19100 | 1900 | 50 | LOW | 0.15 | 0.107 | 18.82 | 19.00 | 1.042 | 0.111 | / |
| Ant.3 | State1&3&5 | QPSK | Front Side | 15 | 18900 | 1880 | 1 | LOW | -0.03 | 0.146 | 21.32 | 21.50 | 1.042 | 0.152 | / |
| | State1&3&5 | | | 15 | 18900 | 1880 | 50 | MID | -0.16 | 0.114 | 21.37 | 21.50 | 1.030 | 0.117 | / |
| | State1&3&5 | | Back Side | 15 | 18900 | 1880 | 1 | LOW | 0.09 | 0.182 | 21.32 | 21.50 | 1.042 | 0.190 | / |
| | State1&3&5 | | | 15 | 18900 | 1880 | 50 | MID | 0.04 | 0.142 | 21.37 | 21.50 | 1.030 | 0.146 | / |

| Hotspot | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ant.4 | State1&3&5 | QPSK | Front Side | 10 | 19100 | 1900 | 1 | LOW | 0.07 | 0.302 | 20.73 | 21.50 | 1.194 | 0.361 | / |
| | State1&3&5 | | | 10 | 19100 | 1900 | 50 | MID | -0.10 | 0.323 | 20.73 | 21.50 | 1.194 | 0.386 | / |
| | State1&3&5 | | Back Side | 10 | 19100 | 1900 | 1 | LOW | -0.02 | 0.331 | 20.73 | 21.50 | 1.194 | 0.395 | / |
| | State1&3&5 | | | 10 | 19100 | 1900 | 50 | MID | -0.01 | 0.342 | 20.73 | 21.50 | 1.194 | 0.408 | / |
| | State1&3&5 | | Left Edge | 10 | 19100 | 1900 | 1 | LOW | -0.11 | 0.061 | 20.73 | 21.50 | 1.194 | 0.073 | / |
| | State1&3&5 | | | 10 | 19100 | 1900 | 50 | MID | 0.19 | 0.053 | 20.73 | 21.50 | 1.194 | 0.063 | / |
| | State1&3&5 | | Right Edge | 10 | 19100 | 1900 | 1 | LOW | -0.09 | 0.261 | 20.73 | 21.50 | 1.194 | 0.312 | / |
| | State1&3&5 | | | 10 | 19100 | 1900 | 50 | MID | -0.14 | 0.262 | 20.73 | 21.50 | 1.194 | 0.313 | / |
| | State1&3&5 | | Top Edge | 10 | 19100 | 1900 | 1 | LOW | -0.02 | 0.628 | 20.73 | 21.50 | 1.194 | **0.750** | 20# |
| | State1&3&5 | | | 10 | 19100 | 1900 | 50 | MID | 0.00 | 0.611 | 20.73 | 21.50 | 1.194 | 0.730 | / |
| | State1&3&5 | | Bottom Edge | 10 | 19100 | 1900 | 1 | LOW | -0.02 | 0.011 | 20.73 | 21.50 | 1.194 | 0.013 | / |
| | State1&3&5 | | | 10 | 19100 | 1900 | 50 | MID | 0.09 | 0.009 | 20.73 | 21.50 | 1.194 | 0.011 | / |
| Ant.4(ENDC) | State1&3&5 | QPSK | Front Side | 10 | 19100 | 1900 | 1 | MID | 0.15 | 0.180 | 18.83 | 19.00 | 1.040 | 0.187 | / |
| | State1&3&5 | | | 10 | 19100 | 1900 | 50 | LOW | -0.12 | 0.188 | 18.82 | 19.00 | 1.042 | 0.196 | / |
| | State1&3&5 | | Back Side | 10 | 19100 | 1900 | 1 | MID | 0.01 | 0.191 | 18.83 | 19.00 | 1.040 | 0.199 | / |
| | State1&3&5 | | | 10 | 19100 | 1900 | 50 | LOW | 0.09 | 0.198 | 18.82 | 19.00 | 1.042 | 0.206 | / |
| | State1&3&5 | | Left Edge | 10 | 19100 | 1900 | 1 | MID | 0.15 | 0.035 | 18.83 | 19.00 | 1.040 | 0.036 | / |
| | State1&3&5 | | | 10 | 19100 | 1900 | 50 | LOW | -0.05 | 0.035 | 18.82 | 19.00 | 1.042 | 0.036 | / |
| | State1&3&5 | | Right Edge | 10 | 19100 | 1900 | 1 | MID | -0.06 | 0.155 | 18.83 | 19.00 | 1.040 | 0.161 | / |
| | State1&3&5 | | | 10 | 19100 | 1900 | 50 | LOW | -0.05 | 0.157 | 18.82 | 19.00 | 1.042 | 0.164 | / |
| | State1&3&5 | | Top Edge | 10 | 19100 | 1900 | 1 | MID | -0.11 | 0.383 | 18.83 | 19.00 | 1.040 | 0.398 | / |
| | State1&3&5 | | | 10 | 19100 | 1900 | 50 | LOW | 0.18 | 0.394 | 18.82 | 19.00 | 1.042 | 0.411 | / |
| | State1&3&5 | | Bottom Edge | 10 | 19100 | 1900 | 1 | MID | 0.00 | 0.006 | 18.83 | 19.00 | 1.040 | 0.006 | / |
| | State1&3&5 | | | 10 | 19100 | 1900 | 50 | LOW | -0.03 | 0.005 | 18.82 | 19.00 | 1.042 | 0.005 | / |
| Ant.3 | State1&3&5 | QPSK | Front Side | 10 | 18900 | 1880 | 1 | LOW | -0.17 | 0.175 | 21.32 | 21.50 | 1.042 | 0.182 | / |
| | State1&3&5 | | | 10 | 18900 | 1880 | 50 | MID | -0.12 | 0.163 | 21.37 | 21.50 | 1.030 | 0.168 | / |
| | State1&3&5 | | Back Side | 10 | 18900 | 1880 | 1 | LOW | 0.08 | 0.253 | 21.32 | 21.50 | 1.042 | 0.264 | / |
| | State1&3&5 | | | 10 | 18900 | 1880 | 50 | MID | -0.17 | 0.198 | 21.37 | 21.50 | 1.030 | 0.204 | / |
| | State1&3&5 | | Left Edge | 10 | 18900 | 1880 | 1 | LOW | -0.05 | 0.076 | 21.32 | 21.50 | 1.042 | 0.079 | / |
| | State1&3&5 | | | 10 | 18900 | 1880 | 50 | MID | -0.05 | 0.062 | 21.37 | 21.50 | 1.030 | 0.064 | / |
| | State1&3&5 | | Right Edge | 10 | 18900 | 1880 | 1 | LOW | -0.11 | 0.040 | 21.32 | 21.50 | 1.042 | 0.042 | / |
| | State1&3&5 | | | 10 | 18900 | 1880 | 50 | MID | -0.17 | 0.034 | 21.37 | 21.50 | 1.030 | 0.035 | / |
| | State1&3&5 | | Top Edge | 10 | 18900 | 1880 | 1 | LOW | -0.11 | 0.011 | 21.32 | 21.50 | 1.042 | 0.011 | / |
| | State1&3&5 | | | 10 | 18900 | 1880 | 50 | MID | 0.01 | 0.012 | 21.37 | 21.50 | 1.030 | 0.012 | / |
| | State1&3&5 | | Bottom Edge | 10 | 18900 | 1880 | 1 | LOW | 0.00 | 0.602 | 21.32 | 21.50 | 1.042 | 0.627 | / |
| | State1&3&5 | | | 10 | 18900 | 1880 | 50 | MID | -0.02 | 0.425 | 21.37 | 21.50 | 1.030 | 0.438 | / |

Note: Refer to ANNEX C for the detailed test data for each test configuration.

## 11.7LTE Band 4 (20MHz Bandwidth)

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Num. | RB Start | Power Drift (dB) | 1g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head** | | | | | | | | | | | | | | | |
| Ant.4 | State2&4 | QPSK | Left Cheek | 0 | 20175 | 1732.5 | 1 | HIGH | 0.06 | 0.091 | 16.09 | 17.50 | 1.384 | 0.126 | / |
| | State2&4 | | | 0 | 20175 | 1732.5 | 50 | LOW | 0.14 | 0.088 | 16.10 | 17.50 | 1.380 | 0.121 | / |
| | State2&4 | | Left Tilt | 0 | 20175 | 1732.5 | 1 | HIGH | -0.18 | 0.118 | 16.09 | 17.50 | 1.384 | 0.163 | / |
| | State2&4 | | | 0 | 20175 | 1732.5 | 50 | LOW | 0.05 | 0.116 | 16.10 | 17.50 | 1.380 | 0.160 | / |
| | State2&4 | | Right Cheek | 0 | 20175 | 1732.5 | 1 | HIGH | 0.04 | 0.161 | 16.09 | 17.50 | 1.384 | 0.223 | / |
| | State2&4 | | | 0 | 20175 | 1732.5 | 50 | LOW | -0.13 | 0.154 | 16.10 | 17.50 | 1.380 | 0.213 | / |
| | State2&4 | | Right Tilt | 0 | 20175 | 1732.5 | 1 | HIGH | -0.13 | 0.162 | 16.09 | 17.50 | 1.384 | 0.224 | / |
| | State2&4 | | | 0 | 20175 | 1732.5 | 50 | LOW | 0.02 | 0.165 | 16.10 | 17.50 | 1.380 | **0.228** | 21# |
| Ant.4 | State6 | QPSK | Left Cheek | 0 | 20175 | 1732.5 | 1 | HIGH | -0.17 | 0.081 | 15.04 | 16.50 | 1.400 | 0.113 | / |
| | State6 | | | 0 | 20175 | 1732.5 | 50 | LOW | -0.15 | 0.079 | 15.01 | 16.50 | 1.409 | 0.111 | / |
| | State6 | | Left Tilt | 0 | 20175 | 1732.5 | 1 | HIGH | -0.11 | 0.112 | 15.04 | 16.50 | 1.400 | 0.157 | / |
| | State6 | | | 0 | 20175 | 1732.5 | 50 | LOW | 0.08 | 0.106 | 15.01 | 16.50 | 1.409 | 0.149 | / |
| | State6 | | Right Cheek | 0 | 20175 | 1732.5 | 1 | HIGH | 0.18 | 0.120 | 15.04 | 16.50 | 1.400 | 0.168 | / |
| | State6 | | | 0 | 20175 | 1732.5 | 50 | LOW | -0.10 | 0.126 | 15.01 | 16.50 | 1.409 | 0.178 | / |
| | State6 | | Right Tilt | 0 | 20175 | 1732.5 | 1 | HIGH | -0.19 | 0.155 | 15.04 | 16.50 | 1.400 | 0.217 | / |
| | State6 | | | 0 | 20175 | 1732.5 | 50 | LOW | -0.02 | 0.147 | 15.01 | 16.50 | 1.409 | 0.207 | / |
| Ant.3 | State2&4&6 | QPSK | Left Cheek | 0 | 20175 | 1732.5 | 1 | HIGH | -0.14 | 0.145 | 23.46 | 23.50 | 1.009 | 0.146 | / |
| | State2&4&6 | | | 0 | 20175 | 1732.5 | 50 | MID | -0.01 | 0.114 | 22.49 | 22.50 | 1.002 | 0.114 | / |
| | State2&4&6 | | Left Tilt | 0 | 20175 | 1732.5 | 1 | HIGH | -0.18 | 0.069 | 23.46 | 23.50 | 1.009 | 0.070 | / |
| | State2&4&6 | | | 0 | 20175 | 1732.5 | 50 | MID | -0.14 | 0.055 | 22.49 | 22.50 | 1.002 | 0.055 | / |
| | State2&4&6 | | Right Cheek | 0 | 20175 | 1732.5 | 1 | HIGH | 0.19 | 0.130 | 23.46 | 23.50 | 1.009 | 0.131 | / |
| | State2&4&6 | | | 0 | 20175 | 1732.5 | 50 | MID | 0.10 | 0.105 | 22.49 | 22.50 | 1.002 | 0.105 | / |
| | State2&4&6 | | Right Tilt | 0 | 20175 | 1732.5 | 1 | HIGH | 0.16 | 0.067 | 23.46 | 23.50 | 1.009 | 0.068 | / |
| | State2&4&6 | | | 0 | 20175 | 1732.5 | 50 | MID | -0.19 | 0.057 | 22.49 | 22.50 | 1.002 | 0.057 | / |
| **Body-worn** | | | | | | | | | | | | | | | |
| Ant.4 | State1 | QPSK | Front Side | 15 | 20175 | 1732.5 | 1 | HIGH | 0.01 | 0.068 | 22.29 | 22.50 | 1.050 | 0.071 | / |
| | State1 | | | 15 | 20175 | 1732.5 | 50 | MID | -0.04 | 0.061 | 21.33 | 22.50 | 1.309 | 0.080 | / |
| | State1 | | Back Side | 15 | 20175 | 1732.5 | 1 | HIGH | 0.03 | 0.063 | 22.29 | 22.50 | 1.050 | 0.066 | / |
| | State1 | | | 15 | 20175 | 1732.5 | 50 | MID | -0.08 | 0.065 | 21.33 | 22.50 | 1.309 | 0.085 | / |
| Ant.4 | State3&5 | QPSK | Front Side | 15 | 20175 | 1732.5 | 1 | HIGH | 0.03 | 0.035 | 19.12 | 20.50 | 1.374 | 0.048 | / |
| | State3&5 | | | 15 | 20175 | 1732.5 | 50 | MID | -0.03 | 0.031 | 19.10 | 20.50 | 1.380 | 0.043 | / |
| | State3&5 | | Back Side | 15 | 20175 | 1732.5 | 1 | HIGH | 0.03 | 0.042 | 19.12 | 20.50 | 1.374 | 0.058 | / |
| | State3&5 | | | 15 | 20175 | 1732.5 | 50 | MID | 0.07 | 0.038 | 19.10 | 20.50 | 1.380 | 0.052 | / |
| Ant.3 | State1&3 | QPSK | Front Side | 15 | 20175 | 1732.5 | 1 | HIGH | -0.14 | 0.171 | 21.30 | 21.50 | 1.047 | 0.179 | / |
| | State1&3 | | | 15 | 20175 | 1732.5 | 50 | MID | 0.10 | 0.166 | 21.31 | 21.50 | 1.045 | 0.173 | / |
| | State1&3 | | Back Side | 15 | 20175 | 1732.5 | 1 | HIGH | -0.02 | 0.209 | 21.30 | 21.50 | 1.047 | **0.219** | 22# |
| | State1&3 | | | 15 | 20175 | 1732.5 | 50 | MID | -0.10 | 0.201 | 21.31 | 21.50 | 1.045 | 0.210 | / |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ant.3 | State5 | QPSK | Front Side | 15 | 20175 | 1732.5 | 1 | HIGH | -0.15 | 0.131 | 19.80 | 20.00 | 1.047 | 0.137 | / |
| | State5 | | | 15 | 20175 | 1732.5 | 50 | MID | 0.11 | 0.128 | 19.77 | 20.00 | 1.054 | 0.135 | / |
| | State5 | | Back Side | 15 | 20175 | 1732.5 | 1 | HIGH | 0.16 | 0.192 | 19.80 | 20.00 | 1.047 | 0.201 | / |
| | State5 | | | 15 | 20175 | 1732.5 | 50 | MID | 0.16 | 0.177 | 19.77 | 20.00 | 1.054 | 0.187 | / |
| **Hotspot** | | | | | | | | | | | | | | | |
| Ant.4 | State3&5 | QPSK | Front Side | 10 | 20175 | 1732.5 | 1 | HIGH | 0.19 | 0.061 | 19.12 | 20.50 | 1.374 | 0.084 | / |
| | State3&5 | | | 10 | 20175 | 1732.5 | 50 | MID | -0.15 | 0.055 | 19.10 | 20.50 | 1.380 | 0.076 | / |
| | State3&5 | | Back Side | 10 | 20175 | 1732.5 | 1 | HIGH | 0.05 | 0.075 | 19.12 | 20.50 | 1.374 | 0.103 | / |
| | State3&5 | | | 10 | 20175 | 1732.5 | 50 | MID | -0.10 | 0.072 | 19.10 | 20.50 | 1.380 | 0.099 | / |
| | State3&5 | | Left Edge | 10 | 20175 | 1732.5 | 1 | HIGH | -0.04 | 0.015 | 19.12 | 20.50 | 1.374 | 0.021 | / |
| | State3&5 | | | 10 | 20175 | 1732.5 | 50 | MID | -0.12 | 0.013 | 19.10 | 20.50 | 1.380 | 0.018 | / |
| | State3&5 | | Right Edge | 10 | 20175 | 1732.5 | 1 | HIGH | 0.08 | 0.033 | 19.12 | 20.50 | 1.374 | 0.045 | / |
| | State3&5 | | | 10 | 20175 | 1732.5 | 50 | MID | -0.04 | 0.031 | 19.10 | 20.50 | 1.380 | 0.043 | / |
| | State3&5 | | Top Edge | 10 | 20175 | 1732.5 | 1 | HIGH | 0.08 | 0.131 | 19.12 | 20.50 | 1.374 | 0.180 | / |
| | State3&5 | | | 10 | 20175 | 1732.5 | 50 | MID | 0.19 | 0.134 | 19.10 | 20.50 | 1.380 | 0.185 | / |
| | State3&5 | | Bottom Edge | 10 | 20175 | 1732.5 | 1 | HIGH | 0.15 | 0.007 | 19.12 | 20.50 | 1.374 | 0.010 | / |
| | State3&5 | | | 10 | 20175 | 1732.5 | 50 | MID | -0.05 | 0.006 | 19.10 | 20.50 | 1.380 | 0.008 | / |
| Ant.3 | State1&3 | QPSK | Front Side | 10 | 20175 | 1732.5 | 1 | HIGH | -0.09 | 0.366 | 21.30 | 21.50 | 1.047 | 0.383 | / |
| | State1&3 | | | 10 | 20175 | 1732.5 | 50 | MID | 0.04 | 0.361 | 21.31 | 21.50 | 1.045 | 0.377 | / |
| | State1&3 | | Back Side | 10 | 20175 | 1732.5 | 1 | HIGH | 0.05 | 0.416 | 21.30 | 21.50 | 1.047 | 0.436 | / |
| | State1&3 | | | 10 | 20175 | 1732.5 | 50 | MID | 0.06 | 0.423 | 21.31 | 21.50 | 1.045 | 0.442 | / |
| | State1&3 | | Left Edge | 10 | 20175 | 1732.5 | 1 | HIGH | 0.01 | 0.141 | 21.30 | 21.50 | 1.047 | 0.148 | / |
| | State1&3 | | | 10 | 20175 | 1732.5 | 50 | MID | 0.03 | 0.135 | 21.31 | 21.50 | 1.045 | 0.141 | / |
| | State1&3 | | Right Edge | 10 | 20175 | 1732.5 | 1 | HIGH | 0.11 | 0.095 | 21.30 | 21.50 | 1.047 | 0.099 | / |
| | State1&3 | | | 10 | 20175 | 1732.5 | 50 | MID | 0.11 | 0.091 | 21.31 | 21.50 | 1.045 | 0.095 | / |
| | State1&3 | | Top Edge | 10 | 20175 | 1732.5 | 1 | HIGH | -0.11 | 0.015 | 21.30 | 21.50 | 1.047 | 0.016 | / |
| | State1&3 | | | 10 | 20175 | 1732.5 | 50 | MID | 0.18 | 0.013 | 21.31 | 21.50 | 1.045 | 0.014 | / |
| | State1&3 | | Bottom Edge | 10 | 20175 | 1732.5 | 1 | HIGH | 0.14 | 0.765 | 21.30 | 21.50 | 1.047 | 0.801 | / |
| | State1&3 | | | 10 | 20175 | 1732.5 | 50 | MID | 0.18 | 0.754 | 21.31 | 21.50 | 1.045 | 0.788 | / |
| | State1&3 | | | 10 | 20050 | 1720 | 1 | MID | -0.07 | 0.688 | 21.24 | 21.50 | 1.062 | 0.731 | / |
| | State1&3 | | | 10 | 20050 | 1720 | 50 | HIGH | 0.14 | 0.806 | 21.29 | 21.50 | 1.050 | 0.846 | / |
| | State1&3 | | | 10 | 20300 | 1745 | 1 | MID | -0.06 | 0.811 | 21.24 | 21.50 | 1.062 | 0.861 | / |
| | State1&3 | | | 10 | 20300 | 1745 | 50 | MID | 0.01 | 0.823 | 21.28 | 21.50 | 1.052 | **0.866** | 23# |
| | State1&3 | | | 10 | 20300 | 1745 | 100 | LOW | 0.14 | 0.711 | 21.29 | 21.50 | 1.050 | 0.747 | / |
| Ant.3 | State5 | QPSK | Front Side | 10 | 20175 | 1732.5 | 1 | HIGH | 0.00 | 0.261 | 19.80 | 20.00 | 1.047 | 0.273 | / |
| | State5 | | | 10 | 20175 | 1732.5 | 50 | MID | -0.11 | 0.253 | 19.77 | 20.00 | 1.054 | 0.267 | / |
| | State5 | | Back Side | 10 | 20175 | 1732.5 | 1 | HIGH | 0.13 | 0.288 | 19.80 | 20.00 | 1.047 | 0.302 | / |
| | State5 | | | 10 | 20175 | 1732.5 | 50 | MID | 0.06 | 0.282 | 19.77 | 20.00 | 1.054 | 0.297 | / |
| | State5 | | Left Edge | 10 | 20175 | 1732.5 | 1 | HIGH | 0.02 | 0.112 | 19.80 | 20.00 | 1.047 | 0.117 | / |
| | State5 | | | 10 | 20175 | 1732.5 | 50 | MID | -0.19 | 0.108 | 19.77 | 20.00 | 1.054 | 0.114 | / |
| | State5 | | Right Edge | 10 | 20175 | 1732.5 | 1 | HIGH | -0.07 | 0.073 | 19.80 | 20.00 | 1.047 | 0.076 | / |
| | State5 | | | 10 | 20175 | 1732.5 | 50 | MID | -0.05 | 0.071 | 19.77 | 20.00 | 1.054 | 0.075 | / |
| | State5 | | Top Edge | 10 | 20175 | 1732.5 | 1 | HIGH | 0.09 | 0.008 | 19.80 | 20.00 | 1.047 | 0.008 | / |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | State5 | | | 10 | 20175 | 1732.5 | 50 | MID | 0.03 | 0.009 | 19.77 | 20.00 | 1.054 | 0.009 | / |
| | State5 | | Bottom Edge | 10 | 20175 | 1732.5 | 1 | HIGH | 0.01 | 0.533 | 19.80 | 20.00 | 1.047 | 0.558 | / |
| | State5 | | | 10 | 20175 | 1732.5 | 50 | MID | 0.09 | 0.528 | 19.77 | 20.00 | 1.054 | 0.557 | / |
| Note: Refer to ANNEX C for the detailed test data for each test configuration. | | | | | | | | | | | | | | | |

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Num. | RB Start | Power Drift (dB) | 10g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 10g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Specific** | | | | | | | | | | | | | | | |
| Ant.3 | State1&3 | QPSK | Bottom Edge | 0 | 20175 | 1732.5 | 1 | HIGH | -0.09 | 1.060 | 21.30 | 23.50 | 1.660 | **1.760** | 24# |
| | State1&3 | | | 0 | 20175 | 1732.5 | 50 | MID | 0.06 | 1.010 | 21.31 | 23.50 | 1.656 | 1.673 | / |
| Note: Refer to ANNEX C for the detailed test data for each test configuration. | | | | | | | | | | | | | | | |

## 11.8LTE Band 5 (10MHz Bandwidth)

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Num. | RB Start | Power Drift (dB) | 1g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head** | | | | | | | | | | | | | | | |
| Ant.1 | State2&4&6 | QPSK | Left Cheek | 0 | 20600 | 844 | 1 | MID | 0.05 | 0.114 | 23.25 | 24.50 | 1.334 | 0.152 | / |
| | State2&4&6 | | | 0 | 20600 | 844 | 25 | LOW | -0.12 | 0.122 | 22.23 | 23.50 | 1.340 | 0.163 | / |
| | State2&4&6 | | Left Tilt | 0 | 20600 | 844 | 1 | MID | -0.08 | 0.065 | 23.25 | 24.50 | 1.334 | 0.087 | / |
| | State2&4&6 | | | 0 | 20600 | 844 | 25 | LOW | 0.06 | 0.070 | 22.23 | 23.50 | 1.340 | 0.094 | / |
| | State2&4&6 | | Right Cheek | 0 | 20600 | 844 | 1 | MID | -0.08 | 0.256 | 23.25 | 24.50 | 1.334 | **0.342** | 25# |
| | State2&4&6 | | | 0 | 20600 | 844 | 25 | LOW | -0.01 | 0.232 | 22.23 | 23.50 | 1.340 | 0.311 | / |
| | State2&4&6 | | Right Tilt | 0 | 20600 | 844 | 1 | MID | 0.04 | 0.134 | 23.25 | 24.50 | 1.334 | 0.179 | / |
| | State2&4&6 | | | 0 | 20600 | 844 | 25 | LOW | -0.03 | 0.121 | 22.23 | 23.50 | 1.340 | 0.162 | / |
| Ant.0 | State2&4&6 | QPSK | Left Cheek | 0 | 20525 | 836.5 | 1 | LOW | -0.15 | 0.114 | 23.50 | 24.50 | 1.259 | 0.144 | / |
| | State2&4&6 | | | 0 | 20525 | 836.5 | 25 | MID | -0.18 | 0.100 | 22.49 | 23.50 | 1.262 | 0.126 | / |
| | State2&4&6 | | Left Tilt | 0 | 20525 | 836.5 | 1 | LOW | 0.12 | 0.062 | 23.50 | 24.50 | 1.259 | 0.078 | / |
| | State2&4&6 | | | 0 | 20525 | 836.5 | 25 | MID | 0.03 | 0.055 | 22.49 | 23.50 | 1.262 | 0.069 | / |
| | State2&4&6 | | Right Cheek | 0 | 20525 | 836.5 | 1 | LOW | 0.16 | 0.079 | 23.50 | 24.50 | 1.259 | 0.099 | / |
| | State2&4&6 | | | 0 | 20525 | 836.5 | 25 | MID | 0.00 | 0.078 | 22.49 | 23.50 | 1.262 | 0.098 | / |
| | State2&4&6 | | Right Tilt | 0 | 20525 | 836.5 | 1 | LOW | -0.10 | 0.023 | 23.50 | 24.50 | 1.259 | 0.029 | / |
| | State2&4&6 | | | 0 | 20525 | 836.5 | 25 | MID | 0.19 | 0.016 | 22.49 | 23.50 | 1.262 | 0.020 | / |
| **Body-worn** | | | | | | | | | | | | | | | |
| Ant.1 | State1&3&5 | QPSK | Front Side | 15 | 20525 | 836.5 | 1 | MID | 0.02 | 0.034 | 23.25 | 24.50 | 1.334 | 0.045 | / |
| | State1&3&5 | | | 15 | 20525 | 836.5 | 25 | LOW | 0.00 | 0.028 | 22.23 | 24.50 | 1.687 | 0.047 | / |
| | State1&3&5 | | Back Side | 15 | 20525 | 836.5 | 1 | MID | 0.04 | 0.048 | 23.25 | 24.50 | 1.334 | 0.064 | / |
| | State1&3&5 | | | 15 | 20525 | 836.5 | 25 | LOW | 0.03 | 0.040 | 22.23 | 24.50 | 1.687 | 0.067 | / |
| Ant.0 | State1&3&5 | QPSK | Front Side | 15 | 20525 | 836.5 | 1 | LOW | 0.13 | 0.081 | 23.50 | 24.50 | 1.259 | 0.102 | / |
| | State1&3&5 | | | 15 | 20525 | 836.5 | 25 | MID | 0.04 | 0.077 | 22.49 | 23.50 | 1.262 | 0.097 | / |
| | State1&3&5 | | Back Side | 15 | 20525 | 836.5 | 1 | LOW | -0.02 | 0.099 | 23.50 | 24.50 | 1.259 | **0.125** | 26# |
| | State1&3&5 | | | 15 | 20525 | 836.5 | 25 | MID | 0.03 | 0.077 | 22.49 | 23.50 | 1.262 | 0.097 | / |
| Ant.0(ENDC) | State1&3&5 | QPSK | Front Side | 15 | 20450 | 829 | 1 | LOW | -0.01 | 0.041 | 21.01 | 21.50 | 1.119 | 0.046 | / |
| | State1&3&5 | | | 15 | 20450 | 829 | 25 | HIGH | 0.01 | 0.030 | 21.02 | 21.50 | 1.117 | 0.034 | / |
| | State1&3&5 | | Back Side | 15 | 20450 | 829 | 1 | LOW | 0.12 | 0.043 | 21.01 | 21.50 | 1.119 | 0.048 | / |
| | State1&3&5 | | | 15 | 20450 | 829 | 25 | HIGH | -0.12 | 0.039 | 21.02 | 21.50 | 1.117 | 0.044 | / |
| **Hotspot** | | | | | | | | | | | | | | | |
| Ant.1 | State1&3&5 | QPSK | Front Side | 10 | 20525 | 836.5 | 1 | MID | -0.02 | 0.068 | 23.25 | 24.50 | 1.334 | 0.091 | / |
| | State1&3&5 | | | 10 | 20525 | 836.5 | 25 | LOW | 0.03 | 0.055 | 22.23 | 24.50 | 1.687 | 0.093 | / |
| | State1&3&5 | | Back Side | 10 | 20525 | 836.5 | 1 | MID | -0.02 | 0.082 | 23.25 | 24.50 | 1.334 | 0.109 | / |
| | State1&3&5 | | | 10 | 20525 | 836.5 | 25 | LOW | -0.04 | 0.081 | 22.23 | 24.50 | 1.687 | 0.137 | / |
| | State1&3&5 | | Left Edge | 10 | 20525 | 836.5 | 1 | MID | -0.19 | 0.023 | 23.25 | 24.50 | 1.334 | 0.031 | / |
| | State1&3&5 | | | 10 | 20525 | 836.5 | 25 | LOW | -0.13 | 0.018 | 22.23 | 24.50 | 1.687 | 0.030 | / |
| | State1&3&5 | | Right Edge | 10 | 20525 | 836.5 | 1 | MID | -0.10 | 0.097 | 23.25 | 24.50 | 1.334 | 0.129 | / |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | State1&3&5 | | | 10 | 20525 | 836.5 | 25 | LOW | 0.07 | 0.093 | 22.23 | 24.50 | 1.687 | 0.157 | / |
| | State1&3&5 | | Top Edge | 10 | 20525 | 836.5 | 1 | MID | 0.10 | 0.017 | 23.25 | 24.50 | 1.334 | 0.023 | / |
| | State1&3&5 | | | 10 | 20525 | 836.5 | 25 | LOW | -0.11 | 0.011 | 22.23 | 24.50 | 1.687 | 0.019 | / |
| | State1&3&5 | | Bottom Edge | 10 | 20525 | 836.5 | 1 | MID | 0.01 | 0.013 | 23.25 | 24.50 | 1.334 | 0.017 | / |
| | State1&3&5 | | | 10 | 20525 | 836.5 | 25 | LOW | -0.09 | 0.009 | 22.23 | 24.50 | 1.687 | 0.015 | / |
| Ant.0 | State1&3&5 | QPSK | Front Side | 10 | 20525 | 836.5 | 1 | LOW | -0.01 | 0.144 | 23.50 | 24.50 | 1.259 | 0.181 | / |
| | State1&3&5 | | | 10 | 20525 | 836.5 | 25 | MID | -0.01 | 0.114 | 22.49 | 23.50 | 1.262 | 0.144 | / |
| | State1&3&5 | | Back Side | 10 | 20525 | 836.5 | 1 | LOW | 0.00 | 0.184 | 23.50 | 24.50 | 1.259 | **0.232** | 27# |
| | State1&3&5 | | | 10 | 20525 | 836.5 | 25 | MID | 0.04 | 0.146 | 22.49 | 23.50 | 1.262 | 0.184 | / |
| | State1&3&5 | | Left Edge | 10 | 20525 | 836.5 | 1 | LOW | 0.01 | 0.043 | 23.50 | 24.50 | 1.259 | 0.054 | / |
| | State1&3&5 | | | 10 | 20525 | 836.5 | 25 | MID | 0.09 | 0.033 | 22.49 | 23.50 | 1.262 | 0.042 | / |
| | State1&3&5 | | Right Edge | 10 | 20525 | 836.5 | 1 | LOW | 0.01 | 0.116 | 23.50 | 24.50 | 1.259 | 0.146 | / |
| | State1&3&5 | | | 10 | 20525 | 836.5 | 25 | MID | 0.03 | 0.091 | 22.49 | 23.50 | 1.262 | 0.115 | / |
| | State1&3&5 | | Top Edge | 10 | 20525 | 836.5 | 1 | LOW | -0.14 | 0.021 | 23.50 | 24.50 | 1.259 | 0.026 | / |
| | State1&3&5 | | | 10 | 20525 | 836.5 | 25 | MID | -0.09 | 0.018 | 22.49 | 23.50 | 1.262 | 0.023 | / |
| | State1&3&5 | | Bottom Edge | 10 | 20525 | 836.5 | 1 | LOW | 0.14 | 0.129 | 23.50 | 24.50 | 1.259 | 0.162 | / |
| | State1&3&5 | | | 10 | 20525 | 836.5 | 25 | MID | 0.09 | 0.118 | 22.49 | 23.50 | 1.262 | 0.149 | / |
| Ant.0(ENDC) | State1&3&5 | QPSK | Front Side | 10 | 20450 | 829 | 1 | LOW | 0.09 | 0.035 | 21.01 | 21.50 | 1.119 | 0.039 | / |
| | State1&3&5 | | | 10 | 20450 | 829 | 25 | HIGH | 0.00 | 0.033 | 21.02 | 21.50 | 1.117 | 0.037 | / |
| | State1&3&5 | | Back Side | 10 | 20450 | 829 | 1 | LOW | 0.12 | 0.059 | 21.01 | 21.50 | 1.119 | 0.066 | / |
| | State1&3&5 | | | 10 | 20450 | 829 | 25 | HIGH | -0.19 | 0.047 | 21.02 | 21.50 | 1.117 | 0.052 | / |
| | State1&3&5 | | Left Edge | 10 | 20450 | 829 | 1 | LOW | -0.09 | 0.022 | 21.01 | 21.50 | 1.119 | 0.025 | / |
| | State1&3&5 | | | 10 | 20450 | 829 | 25 | HIGH | -0.08 | 0.016 | 21.02 | 21.50 | 1.117 | 0.018 | / |
| | State1&3&5 | | Right Edge | 10 | 20450 | 829 | 1 | LOW | 0.03 | 0.031 | 21.01 | 21.50 | 1.119 | 0.035 | / |
| | State1&3&5 | | | 10 | 20450 | 829 | 25 | HIGH | 0.18 | 0.029 | 21.02 | 21.50 | 1.117 | 0.032 | / |
| | State1&3&5 | | Top Edge | 10 | 20450 | 829 | 1 | LOW | -0.12 | 0.015 | 21.01 | 21.50 | 1.119 | 0.017 | / |
| | State1&3&5 | | | 10 | 20450 | 829 | 25 | HIGH | -0.01 | 0.011 | 21.02 | 21.50 | 1.117 | 0.012 | / |
| | State1&3&5 | | Bottom Edge | 10 | 20450 | 829 | 1 | LOW | 0.05 | 0.037 | 21.01 | 21.50 | 1.119 | 0.041 | / |
| | State1&3&5 | | | 10 | 20450 | 829 | 25 | HIGH | 0.10 | 0.034 | 21.02 | 21.50 | 1.117 | 0.038 | / |

Note: Refer to ANNEX C for the detailed test data for each test configuration.

# 11.9LTE Band 7 (20MHz Bandwidth)

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Num. | RB Start | Power Drift (dB) | 1g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head** | | | | | | | | | | | | | | | |
| Ant.4 | State2&4&6 | QPSK | Left Cheek | 0 | 20850 | 2510 | 1 | MID | -0.06 | 0.353 | 15.07 | 16.50 | 1.390 | 0.491 | / |
| | State2&4&6 | | | 0 | 20850 | 2510 | 50 | MID | -0.10 | 0.334 | 15.10 | 16.50 | 1.380 | 0.461 | / |
| | State2&4&6 | | Left Tilt | 0 | 20850 | 2510 | 1 | MID | 0.12 | 0.387 | 15.07 | 16.50 | 1.390 | 0.538 | / |
| | State2&4&6 | | | 0 | 20850 | 2510 | 50 | MID | -0.01 | 0.379 | 15.10 | 16.50 | 1.380 | 0.523 | / |
| | State2&4&6 | | Right Cheek | 0 | 20850 | 2510 | 1 | MID | -0.01 | 0.475 | 15.07 | 16.50 | 1.390 | 0.660 | / |
| | State2&4&6 | | | 0 | 20850 | 2510 | 50 | MID | -0.11 | 0.471 | 15.10 | 16.50 | 1.380 | 0.650 | / |
| | State2&4&6 | | Right Tilt | 0 | 20850 | 2510 | 1 | MID | -0.06 | 0.588 | 15.07 | 16.50 | 1.390 | 0.817 | / |
| | State2&4&6 | | | 0 | 20850 | 2510 | 50 | MID | -0.16 | 0.600 | 15.10 | 16.50 | 1.380 | 0.828 | / |
| | State2&4&6 | | | 0 | 21100 | 2535 | 1 | MID | 0.15 | 0.502 | 15.00 | 16.50 | 1.413 | 0.709 | / |
| | State2&4&6 | | | 0 | 21100 | 2535 | 50 | MID | -0.07 | 0.511 | 14.95 | 16.50 | 1.429 | 0.730 | / |
| | State2&4&6 | | | 0 | 21350 | 2560 | 1 | MID | -0.05 | 0.677 | 14.83 | 16.50 | 1.469 | 0.995 | / |
| | State2&4&6 | | | 0 | 21350 | 2560 | 50 | LOW | -0.01 | 0.692 | 14.87 | 16.50 | 1.455 | **1.007** | 28# |
| | State2&4&6 | | | 0 | 20850 | 2510 | 100 | LOW | 0.18 | 0.441 | 15.07 | 16.50 | 1.390 | 0.613 | / |
| Ant.4(ENDC) | State2&4&6 | QPSK | Left Cheek | 0 | 21100 | 2535 | 1 | HIGH | -0.15 | 0.326 | 14.01 | 14.50 | 1.119 | 0.365 | / |
| | State2&4&6 | | | 0 | 21100 | 2535 | 50 | MID | -0.05 | 0.296 | 14.15 | 14.50 | 1.084 | 0.321 | / |
| | State2&4&6 | | Left Tilt | 0 | 21100 | 2535 | 1 | HIGH | 0.14 | 0.297 | 14.01 | 14.50 | 1.119 | 0.332 | / |
| | State2&4&6 | | | 0 | 21100 | 2535 | 50 | MID | -0.04 | 0.288 | 14.15 | 14.50 | 1.084 | 0.312 | / |
| | State2&4&6 | | Right Cheek | 0 | 21100 | 2535 | 1 | HIGH | 0.07 | 0.468 | 14.01 | 14.50 | 1.119 | 0.524 | / |
| | State2&4&6 | | | 0 | 21100 | 2535 | 50 | MID | -0.11 | 0.446 | 14.15 | 14.50 | 1.084 | 0.483 | / |
| | State2&4&6 | | Right Tilt | 0 | 21100 | 2535 | 1 | HIGH | -0.14 | 0.551 | 14.01 | 14.50 | 1.119 | 0.617 | / |
| | State2&4&6 | | | 0 | 21100 | 2535 | 50 | MID | 0.16 | 0.475 | 14.15 | 14.50 | 1.084 | 0.515 | / |
| Ant.3 | State2&4&6 | QPSK | Left Cheek | 0 | 21100 | 2535 | 1 | MID | 0.14 | 0.198 | 23.44 | 23.50 | 1.014 | 0.201 | / |
| | State2&4&6 | | | 0 | 21100 | 2535 | 50 | MID | 0.07 | 0.161 | 22.44 | 22.50 | 1.014 | 0.163 | / |
| | State2&4&6 | | Left Tilt | 0 | 21100 | 2535 | 1 | MID | 0.02 | 0.105 | 23.44 | 23.50 | 1.014 | 0.106 | / |
| | State2&4&6 | | | 0 | 21100 | 2535 | 50 | MID | 0.15 | 0.092 | 22.44 | 22.50 | 1.014 | 0.093 | / |
| | State2&4&6 | | Right Cheek | 0 | 21100 | 2535 | 1 | MID | -0.13 | 0.213 | 23.44 | 23.50 | 1.014 | 0.216 | / |
| | State2&4&6 | | | 0 | 21100 | 2535 | 50 | MID | -0.05 | 0.185 | 22.44 | 22.50 | 1.014 | 0.188 | / |
| | State2&4&6 | | Right Tilt | 0 | 21100 | 2535 | 1 | MID | -0.08 | 0.086 | 23.44 | 23.50 | 1.014 | 0.087 | / |
| | State2&4&6 | | | 0 | 21100 | 2535 | 50 | MID | -0.05 | 0.064 | 22.44 | 22.50 | 1.014 | 0.065 | / |
| Ant.1(ENDC) | State2&4&6 | QPSK | Left Cheek | 0 | 21350 | 2560 | 1 | MID | 0.02 | 0.071 | 20.49 | 21.00 | 1.125 | 0.080 | / |
| | State2&4&6 | | | 0 | 20850 | 2510 | 50 | MID | 0.06 | 0.073 | 20.47 | 21.00 | 1.130 | 0.082 | / |
| | State2&4&6 | | Left Tilt | 0 | 21350 | 2560 | 1 | MID | -0.10 | 0.023 | 20.49 | 21.00 | 1.125 | 0.026 | / |
| | State2&4&6 | | | 0 | 20850 | 2510 | 50 | MID | 0.19 | 0.029 | 20.47 | 21.00 | 1.130 | 0.033 | / |
| | State2&4&6 | | Right Cheek | 0 | 21350 | 2560 | 1 | MID | 0.19 | 0.176 | 20.49 | 21.00 | 1.125 | 0.198 | / |
| | State2&4&6 | | | 0 | 20850 | 2510 | 50 | MID | -0.10 | 0.167 | 20.47 | 21.00 | 1.130 | 0.189 | / |
| | State2&4&6 | | Right Tilt | 0 | 21350 | 2560 | 1 | MID | -0.17 | 0.061 | 20.49 | 21.00 | 1.125 | 0.069 | / |
| | State2&4&6 | | | 0 | 20850 | 2510 | 50 | MID | -0.03 | 0.063 | 20.47 | 21.00 | 1.130 | 0.071 | / |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Body-worn** | | | | | | | | | | | | | | | |
| Ant.4 | State1&3&5 | QPSK | Front Side | 15 | 21100 | 2535 | 1 | MID | -0.08 | 0.121 | 18.04 | 19.50 | 1.400 | 0.169 | / |
| | State1&3&5 | | | 15 | 21100 | 2535 | 50 | MID | 0.12 | 0.116 | 18.00 | 19.50 | 1.413 | 0.164 | / |
| | State1&3&5 | | Back Side | 15 | 21100 | 2535 | 1 | MID | 0.11 | 0.121 | 18.04 | 19.50 | 1.400 | 0.169 | / |
| | State1&3&5 | | | 15 | 21100 | 2535 | 50 | MID | 0.03 | 0.118 | 18.00 | 19.50 | 1.413 | 0.167 | / |
| Ant.4 (DC_7A_n5A) | State1&3&5 | QPSK | Front Side | 15 | 21100 | 2535 | 1 | MID | -0.15 | 0.112 | 18.42 | 19.00 | 1.143 | 0.128 | / |
| | State1&3&5 | | | 15 | 21100 | 2535 | 50 | MID | 0.03 | 0.110 | 18.54 | 19.00 | 1.112 | 0.122 | / |
| | State1&3&5 | | Back Side | 15 | 21100 | 2535 | 1 | MID | -0.03 | 0.135 | 18.42 | 19.00 | 1.143 | 0.154 | / |
| | State1&3&5 | | | 15 | 21100 | 2535 | 50 | MID | -0.08 | 0.133 | 18.54 | 19.00 | 1.112 | 0.148 | / |
| Ant.4 (DC_7A_n66A) | State1&3&5 | QPSK | Front Side | 15 | 21100 | 2535 | 1 | MID | 0.07 | 0.083 | 17.48 | 18.00 | 1.127 | 0.094 | / |
| | State1&3&5 | | | 15 | 21100 | 2535 | 50 | MID | 0.19 | 0.084 | 17.58 | 18.00 | 1.102 | 0.093 | / |
| | State1&3&5 | | Back Side | 15 | 21100 | 2535 | 1 | MID | 0.12 | 0.103 | 17.48 | 18.00 | 1.127 | 0.116 | / |
| | State1&3&5 | | | 15 | 21100 | 2535 | 50 | MID | 0.06 | 0.105 | 17.58 | 18.00 | 1.102 | 0.116 | / |
| Ant.3 | State1&3&5 | QPSK | Front Side | 15 | 21100 | 2535 | 1 | MID | -0.13 | 0.152 | 18.93 | 19.00 | 1.016 | 0.154 | / |
| | State1&3&5 | | | 15 | 21100 | 2535 | 50 | HIGH | -0.15 | 0.141 | 18.91 | 19.00 | 1.021 | 0.144 | / |
| | State1&3&5 | | Back Side | 15 | 21100 | 2535 | 1 | MID | 0.01 | 0.201 | 18.93 | 19.00 | 1.016 | **0.204** | 29# |
| | State1&3&5 | | | 15 | 21100 | 2535 | 50 | HIGH | -0.02 | 0.188 | 18.91 | 19.00 | 1.021 | 0.192 | / |
| Ant.3 (DC_7A_n5A& DC_7A_N66A) | State1&3&5 | QPSK | Front Side | 15 | 21100 | 2535 | 1 | MID | -0.16 | 0.038 | 17.12 | 17.50 | 1.091 | 0.041 | / |
| | State1&3&5 | | | 15 | 21100 | 2535 | 50 | MID | 0.05 | 0.044 | 17.25 | 17.50 | 1.059 | 0.047 | / |
| | State1&3&5 | | Back Side | 15 | 21100 | 2535 | 1 | MID | 0.00 | 0.079 | 17.12 | 17.50 | 1.091 | 0.086 | / |
| | State1&3&5 | | | 15 | 21100 | 2535 | 50 | MID | -0.06 | 0.080 | 17.25 | 17.50 | 1.059 | 0.085 | / |
| Ant.1(ENDC) | State1&3&5 | QPSK | Front Side | 15 | 21100 | 2535 | 1 | HIGH | -0.03 | 0.033 | 19.84 | 20.00 | 1.038 | 0.034 | / |
| | State1&3&5 | | | 15 | 21100 | 2535 | 50 | MID | 0.03 | 0.031 | 19.94 | 20.00 | 1.014 | 0.031 | / |
| | State1&3&5 | | Back Side | 15 | 21100 | 2535 | 1 | HIGH | -0.05 | 0.056 | 19.84 | 20.00 | 1.038 | 0.058 | / |
| | State1&3&5 | | | 15 | 21100 | 2535 | 50 | MID | 0.09 | 0.053 | 19.94 | 20.00 | 1.014 | 0.054 | / |
| **Hotspot** | | | | | | | | | | | | | | | |
| Ant.4 | State1&3&5 | QPSK | Front Side | 10 | 21100 | 2535 | 1 | MID | 0.15 | 0.215 | 18.04 | 19.50 | 1.400 | 0.301 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | MID | 0.00 | 0.213 | 18.00 | 19.50 | 1.413 | 0.301 | / |
| | State1&3&5 | | Back Side | 10 | 21100 | 2535 | 1 | MID | -0.01 | 0.266 | 18.04 | 19.50 | 1.400 | 0.372 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | MID | -0.04 | 0.261 | 18.00 | 19.50 | 1.413 | 0.369 | / |
| | State1&3&5 | | Left Edge | 10 | 21100 | 2535 | 1 | MID | 0.02 | 0.062 | 18.04 | 19.50 | 1.400 | 0.087 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | MID | -0.07 | 0.061 | 18.00 | 19.50 | 1.413 | 0.086 | / |
| | State1&3&5 | | Right Edge | 10 | 21100 | 2535 | 1 | MID | 0.15 | 0.131 | 18.04 | 19.50 | 1.400 | 0.183 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | MID | -0.16 | 0.133 | 18.00 | 19.50 | 1.413 | 0.188 | / |
| | State1&3&5 | | Top Edge | 10 | 21100 | 2535 | 1 | MID | -0.02 | 0.418 | 18.04 | 19.50 | 1.400 | **0.585** | 30# |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | MID | 0.13 | 0.399 | 18.00 | 19.50 | 1.413 | 0.564 | / |
| | State1&3&5 | | Bottom Edge | 10 | 21100 | 2535 | 1 | MID | 0.05 | 0.023 | 18.04 | 19.50 | 1.400 | 0.032 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | MID | -0.18 | 0.021 | 18.00 | 19.50 | 1.413 | 0.030 | / |
| Ant.4 (DC_7A_n5A) | State1&3&5 | QPSK | Front Side | 10 | 21100 | 2535 | 1 | MID | 0.09 | 0.185 | 18.42 | 19.00 | 1.143 | 0.211 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | MID | 0.07 | 0.181 | 18.54 | 19.00 | 1.112 | 0.201 | / |
| | State1&3&5 | | Back Side | 10 | 21100 | 2535 | 1 | MID | 0.15 | 0.241 | 18.42 | 19.00 | 1.143 | 0.275 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | MID | -0.06 | 0.238 | 18.54 | 19.00 | 1.112 | 0.265 | / |
| | State1&3&5 | | Left Edge | 10 | 21100 | 2535 | 1 | MID | -0.06 | 0.041 | 18.42 | 19.00 | 1.143 | 0.047 | / |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | MID | -0.08 | 0.039 | 18.54 | 19.00 | 1.112 | 0.043 | / |
| | State1&3&5 | | Right Edge | 10 | 21100 | 2535 | 1 | MID | 0.13 | 0.056 | 18.42 | 19.00 | 1.143 | 0.064 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | MID | -0.19 | 0.055 | 18.54 | 19.00 | 1.112 | 0.061 | / |
| | State1&3&5 | | Top Edge | 10 | 21100 | 2535 | 1 | MID | -0.18 | 0.262 | 18.42 | 19.00 | 1.143 | 0.299 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | MID | -0.16 | 0.265 | 18.54 | 19.00 | 1.112 | 0.295 | / |
| | State1&3&5 | | Bottom Edge | 10 | 21100 | 2535 | 1 | MID | 0.05 | 0.023 | 18.42 | 19.00 | 1.143 | 0.026 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | MID | 0.08 | 0.021 | 18.54 | 19.00 | 1.112 | 0.023 | / |
| Ant.4 (DC_7A_n66A) | State1&3&5 | QPSK | Front Side | 10 | 21100 | 2535 | 1 | MID | 0.12 | 0.148 | 17.48 | 18.00 | 1.127 | 0.167 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | MID | 0.03 | 0.145 | 17.58 | 18.00 | 1.102 | 0.160 | / |
| | State1&3&5 | | Back Side | 10 | 21100 | 2535 | 1 | MID | 0.09 | 0.211 | 17.48 | 18.00 | 1.127 | 0.238 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | MID | -0.03 | 0.206 | 17.58 | 18.00 | 1.102 | 0.227 | / |
| | State1&3&5 | | Left Edge | 10 | 21100 | 2535 | 1 | MID | 0.10 | 0.041 | 17.48 | 18.00 | 1.127 | 0.046 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | MID | 0.18 | 0.038 | 17.58 | 18.00 | 1.102 | 0.042 | / |
| | State1&3&5 | | Right Edge | 10 | 21100 | 2535 | 1 | MID | -0.16 | 0.091 | 17.48 | 18.00 | 1.127 | 0.103 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | MID | -0.09 | 0.083 | 17.58 | 18.00 | 1.102 | 0.091 | / |
| | State1&3&5 | | Top Edge | 10 | 21100 | 2535 | 1 | MID | 0.05 | 0.466 | 17.48 | 18.00 | 1.127 | 0.525 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | MID | 0.07 | 0.461 | 17.58 | 18.00 | 1.102 | 0.508 | / |
| | State1&3&5 | | Bottom Edge | 10 | 21100 | 2535 | 1 | MID | 0.16 | 0.016 | 17.48 | 18.00 | 1.127 | 0.018 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | MID | -0.12 | 0.015 | 17.58 | 18.00 | 1.102 | 0.017 | / |
| Ant.3 | State1&3&5 | QPSK | Front Side | 10 | 21100 | 2535 | 1 | MID | 0.08 | 0.125 | 18.93 | 19.00 | 1.016 | 0.127 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | HIGH | 0.14 | 0.128 | 18.91 | 19.00 | 1.021 | 0.131 | / |
| | State1&3&5 | | Back Side | 10 | 21100 | 2535 | 1 | MID | -0.09 | 0.311 | 18.93 | 19.00 | 1.016 | 0.316 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | HIGH | -0.10 | 0.306 | 18.91 | 19.00 | 1.021 | 0.312 | / |
| | State1&3&5 | | Left Edge | 10 | 21100 | 2535 | 1 | MID | 0.12 | 0.085 | 18.93 | 19.00 | 1.016 | 0.086 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | HIGH | -0.02 | 0.083 | 18.91 | 19.00 | 1.021 | 0.085 | / |
| | State1&3&5 | | Right Edge | 10 | 21100 | 2535 | 1 | MID | -0.18 | 0.071 | 18.93 | 19.00 | 1.016 | 0.072 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | HIGH | -0.03 | 0.068 | 18.91 | 19.00 | 1.021 | 0.069 | / |
| | State1&3&5 | | Top Edge | 10 | 21100 | 2535 | 1 | MID | 0.09 | 0.025 | 18.93 | 19.00 | 1.016 | 0.025 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | HIGH | 0.15 | 0.023 | 18.91 | 19.00 | 1.021 | 0.023 | / |
| | State1&3&5 | | Bottom Edge | 10 | 21100 | 2535 | 1 | MID | -0.02 | 0.570 | 18.93 | 19.00 | 1.016 | 0.579 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | HIGH | 0.15 | 0.565 | 18.91 | 19.00 | 1.021 | 0.577 | / |
| Ant.3 (DC_7A_n5A& DC_7A_N66A) | State1&3&5 | QPSK | Front Side | 10 | 21100 | 2535 | 1 | MID | -0.01 | 0.181 | 17.12 | 17.50 | 1.091 | 0.197 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | MID | 0.16 | 0.176 | 17.25 | 17.50 | 1.059 | 0.186 | / |
| | State1&3&5 | | Back Side | 10 | 21100 | 2535 | 1 | MID | 0.17 | 0.133 | 17.12 | 17.50 | 1.091 | 0.145 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | MID | 0.09 | 0.126 | 17.25 | 17.50 | 1.059 | 0.133 | / |
| | State1&3&5 | | Left Edge | 10 | 21100 | 2535 | 1 | MID | 0.08 | 0.034 | 17.12 | 17.50 | 1.091 | 0.037 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | MID | 0.07 | 0.031 | 17.25 | 17.50 | 1.059 | 0.033 | / |
| | State1&3&5 | | Right Edge | 10 | 21100 | 2535 | 1 | MID | -0.04 | 0.055 | 17.12 | 17.50 | 1.091 | 0.060 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | MID | -0.18 | 0.051 | 17.25 | 17.50 | 1.059 | 0.054 | / |
| | State1&3&5 | | Top Edge | 10 | 21100 | 2535 | 1 | MID | 0.13 | 0.016 | 17.12 | 17.50 | 1.091 | 0.017 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | MID | 0.05 | 0.015 | 17.25 | 17.50 | 1.059 | 0.016 | / |
| | State1&3&5 | | Bottom Edge | 10 | 21100 | 2535 | 1 | MID | -0.08 | 0.192 | 17.12 | 17.50 | 1.091 | 0.209 | / |
| | State1&3&5 | | | 10 | 21100 | 2535 | 50 | MID | -0.19 | 0.186 | 17.25 | 17.50 | 1.059 | 0.197 | / |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ant.1(ENDC) | State1&3&5 | QPSK | Front Side | 10 | 21100 | 2535 | 1 | HIGH | 0.18 | 0.062 | 19.84 | 20.00 | 1.038 | 0.064 | / |
| | State1&3&5 | | | 10 | 20850 | 2510 | 50 | MID | 0.06 | 0.066 | 19.94 | 20.00 | 1.014 | 0.067 | / |
| | State1&3&5 | | Back Side | 10 | 21100 | 2535 | 1 | HIGH | -0.10 | 0.092 | 19.84 | 20.00 | 1.038 | 0.095 | / |
| | State1&3&5 | | | 10 | 20850 | 2510 | 50 | MID | 0.00 | 0.083 | 19.94 | 20.00 | 1.014 | 0.084 | / |
| | State1&3&5 | | Left Edge | 10 | 21100 | 2535 | 1 | HIGH | -0.11 | 0.011 | 19.84 | 20.00 | 1.038 | 0.011 | / |
| | State1&3&5 | | | 10 | 20850 | 2510 | 50 | MID | -0.19 | 0.010 | 19.94 | 20.00 | 1.014 | 0.010 | / |
| | State1&3&5 | | Right Edge | 10 | 21100 | 2535 | 1 | HIGH | -0.04 | 0.122 | 19.84 | 20.00 | 1.038 | 0.127 | / |
| | State1&3&5 | | | 10 | 20850 | 2510 | 50 | MID | 0.05 | 0.159 | 19.94 | 20.00 | 1.014 | 0.161 | / |
| | State1&3&5 | | Top Edge | 10 | 21100 | 2535 | 1 | HIGH | 0.13 | 0.021 | 19.84 | 20.00 | 1.038 | 0.022 | / |
| | State1&3&5 | | | 10 | 20850 | 2510 | 50 | MID | -0.02 | 0.018 | 19.94 | 20.00 | 1.014 | 0.018 | / |
| | State1&3&5 | | Bottom Edge | 10 | 21100 | 2535 | 1 | HIGH | 0.00 | 0.013 | 19.84 | 20.00 | 1.038 | 0.013 | / |
| | State1&3&5 | | | 10 | 20850 | 2510 | 50 | MID | -0.15 | 0.012 | 19.94 | 20.00 | 1.014 | 0.012 | / |
| Note: Refer to ANNEX C for the detailed test data for each test configuration. | | | | | | | | | | | | | | | |

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Num. | RB Start | Power Drift (dB) | 10g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 10g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Specific** | | | | | | | | | | | | | | | |
| Ant.4 | State1&3&5 | QPSK | Top Edge | 0 | 21100 | 2535 | 1 | MID | -0.05 | 1.180 | 18.04 | 19.50 | 1.400 | 1.652 | / |
| | State1&3&5 | | | 0 | 21100 | 2535 | 50 | MID | -0.07 | 1.120 | 18.00 | 19.50 | 1.413 | 1.583 | / |
| Ant.3 | State1&3&5 | QPSK | Bottom Edge | 0 | 21100 | 2535 | 1 | MID | -0.02 | 2.020 | 18.93 | 19.00 | 1.016 | **2.052** | 31# |
| | State1&3&5 | | | 0 | 21100 | 2535 | 50 | HIGH | 0.11 | 1.950 | 18.91 | 19.00 | 1.021 | 1.991 | / |
| | State1&3&5 | | | 0 | 20850 | 2510 | 1 | MID | 0.06 | 1.930 | 18.93 | 19.00 | 1.016 | 1.961 | / |
| | State1&3&5 | | | 0 | 21350 | 2560 | 1 | MID | 0.03 | 1.880 | 18.78 | 19.00 | 1.052 | 1.978 | / |
| | State1&3&5 | | | 0 | 20850 | 2510 | 100 | LOW | -0.01 | 1.890 | 18.86 | 19.00 | 1.033 | 1.952 | / |
| Note: Refer to ANNEX C for the detailed test data for each test configuration. | | | | | | | | | | | | | | | |

## 11.10 LTE Band 12 (10MHz Bandwidth)

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Num. | RB Start | Power Drift (dB) | 1g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head** | | | | | | | | | | | | | | | |
| Ant.1 | State2&4&6 | QPSK | Left Cheek | 0 | 23130 | 711 | 1 | MID | -0.01 | 0.061 | 23.04 | 24.10 | 1.276 | 0.078 | / |
| | State2&4&6 | | | 0 | 23130 | 711 | 25 | MID | -0.15 | 0.052 | 22.01 | 23.10 | 1.285 | 0.067 | / |
| | State2&4&6 | | Left Tilt | 0 | 23130 | 711 | 1 | MID | 0.00 | 0.032 | 23.04 | 24.10 | 1.276 | 0.041 | / |
| | State2&4&6 | | | 0 | 23130 | 711 | 25 | MID | 0.13 | 0.025 | 22.01 | 23.10 | 1.285 | 0.032 | / |
| | State2&4&6 | | Right Cheek | 0 | 23130 | 711 | 1 | MID | 0.00 | 0.146 | 23.04 | 24.10 | 1.276 | **0.186** | 32# |
| | State2&4&6 | | | 0 | 23130 | 711 | 25 | MID | 0.03 | 0.121 | 22.01 | 23.10 | 1.285 | 0.155 | / |
| | State2&4&6 | | Right Tilt | 0 | 23130 | 711 | 1 | MID | -0.05 | 0.056 | 23.04 | 24.10 | 1.276 | 0.071 | / |
| | State2&4&6 | | | 0 | 23130 | 711 | 25 | MID | -0.11 | 0.048 | 22.01 | 23.10 | 1.285 | 0.062 | / |
| Ant.0 | State2&4&6 | QPSK | Left Cheek | 0 | 23130 | 711 | 1 | LOW | 0.18 | 0.072 | 23.12 | 24.50 | 1.374 | 0.099 | / |
| | State2&4&6 | | | 0 | 23130 | 711 | 25 | LOW | 0.09 | 0.055 | 22.08 | 23.50 | 1.387 | 0.076 | / |
| | State2&4&6 | | Left Tilt | 0 | 23130 | 711 | 1 | LOW | -0.06 | 0.021 | 23.12 | 24.50 | 1.374 | 0.029 | / |
| | State2&4&6 | | | 0 | 23130 | 711 | 25 | LOW | -0.16 | 0.016 | 22.08 | 23.50 | 1.387 | 0.022 | / |
| | State2&4&6 | | Right Cheek | 0 | 23130 | 711 | 1 | LOW | 0.16 | 0.056 | 23.12 | 24.50 | 1.374 | 0.077 | / |
| | State2&4&6 | | | 0 | 23130 | 711 | 25 | LOW | 0.19 | 0.048 | 22.08 | 23.50 | 1.387 | 0.067 | / |
| | State2&4&6 | | Right Tilt | 0 | 23130 | 711 | 1 | LOW | 0.12 | 0.041 | 23.12 | 24.50 | 1.374 | 0.056 | / |
| | State2&4&6 | | | 0 | 23130 | 711 | 25 | LOW | 0.13 | 0.032 | 22.08 | 23.50 | 1.387 | 0.044 | / |
| **Body-worn** | | | | | | | | | | | | | | | |
| Ant.1 | State1&3&5 | QPSK | Front Side | 15 | 23130 | 711 | 1 | MID | 0.09 | 0.023 | 23.04 | 24.10 | 1.276 | 0.029 | / |
| | State1&3&5 | | | 15 | 23130 | 711 | 25 | MID | -0.08 | 0.025 | 22.01 | 23.10 | 1.285 | 0.032 | / |
| | State1&3&5 | | Back Side | 15 | 23130 | 711 | 1 | MID | -0.13 | 0.032 | 23.04 | 24.10 | 1.276 | 0.041 | / |
| | State1&3&5 | | | 15 | 23130 | 711 | 25 | MID | 0.04 | 0.031 | 22.01 | 23.10 | 1.285 | 0.040 | / |
| Ant.0 | State1&3&5 | QPSK | Front Side | 15 | 23130 | 711 | 1 | LOW | -0.12 | 0.078 | 23.12 | 24.50 | 1.374 | 0.107 | / |
| | State1&3&5 | | | 15 | 23130 | 711 | 25 | LOW | -0.15 | 0.074 | 22.08 | 23.50 | 1.387 | 0.103 | / |
| | State1&3&5 | | Back Side | 15 | 23130 | 711 | 1 | LOW | 0.00 | 0.119 | 23.12 | 24.50 | 1.374 | **0.164** | 33# |
| | State1&3&5 | | | 15 | 23130 | 711 | 25 | LOW | -0.02 | 0.106 | 22.08 | 23.50 | 1.387 | 0.147 | / |
| **Hotspot** | | | | | | | | | | | | | | | |
| Ant.1 | State1&3&5 | QPSK | Front Side | 10 | 23130 | 711 | 1 | MID | -0.10 | 0.041 | 23.04 | 24.10 | 1.276 | 0.052 | / |
| | State1&3&5 | | | 10 | 23130 | 711 | 25 | MID | -0.02 | 0.016 | 22.01 | 23.10 | 1.285 | 0.021 | / |
| | State1&3&5 | | Back Side | 10 | 23130 | 711 | 1 | MID | 0.07 | 0.059 | 23.04 | 24.10 | 1.276 | 0.075 | / |
| | State1&3&5 | | | 10 | 23130 | 711 | 25 | MID | 0.06 | 0.046 | 22.01 | 23.10 | 1.285 | 0.059 | / |
| | State1&3&5 | | Left Edge | 10 | 23130 | 711 | 1 | MID | 0.02 | 0.023 | 23.04 | 24.10 | 1.276 | 0.029 | / |
| | State1&3&5 | | | 10 | 23130 | 711 | 25 | MID | 0.05 | 0.018 | 22.01 | 23.10 | 1.285 | 0.023 | / |
| | State1&3&5 | | Right Edge | 10 | 23130 | 711 | 1 | MID | -0.19 | 0.093 | 23.04 | 24.10 | 1.276 | 0.119 | / |
| | State1&3&5 | | | 10 | 23130 | 711 | 25 | MID | -0.07 | 0.068 | 22.01 | 23.10 | 1.285 | 0.087 | / |
| | State1&3&5 | | Top Edge | 10 | 23130 | 711 | 1 | MID | -0.07 | 0.011 | 23.04 | 24.10 | 1.276 | 0.014 | / |
| | State1&3&5 | | | 10 | 23130 | 711 | 25 | MID | -0.09 | 0.008 | 22.01 | 23.10 | 1.285 | 0.010 | / |
| | State1&3&5 | | Bottom Edge | 10 | 23130 | 711 | 1 | MID | 0.06 | 0.008 | 23.04 | 24.10 | 1.276 | 0.010 | / |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | State1&3&5 | | | 10 | 23130 | 711 | 25 | MID | 0.05 | 0.006 | 22.01 | 23.10 | 1.285 | 0.008 | / |
| Ant.0 | State1&3&5 | QPSK | Front Side | 10 | 23130 | 711 | 1 | LOW | 0.10 | 0.075 | 23.12 | 24.50 | 1.374 | 0.103 | / |
| | State1&3&5 | | | 10 | 23130 | 711 | 25 | LOW | 0.11 | 0.079 | 22.08 | 23.50 | 1.387 | 0.110 | / |
| | State1&3&5 | | Back Side | 10 | 23130 | 711 | 1 | LOW | 0.16 | 0.102 | 23.12 | 24.50 | 1.374 | 0.140 | / |
| | State1&3&5 | | | 10 | 23130 | 711 | 25 | LOW | -0.06 | 0.097 | 22.08 | 23.50 | 1.387 | 0.135 | / |
| | State1&3&5 | | Left Edge | 10 | 23130 | 711 | 1 | LOW | -0.11 | 0.061 | 23.12 | 24.50 | 1.374 | 0.084 | / |
| | State1&3&5 | | | 10 | 23130 | 711 | 25 | LOW | 0.09 | 0.058 | 22.08 | 23.50 | 1.387 | 0.080 | / |
| | State1&3&5 | | Right Edge | 10 | 23130 | 711 | 1 | LOW | 0.00 | 0.143 | 23.12 | 24.50 | 1.374 | **0.196** | 34# |
| | State1&3&5 | | | 10 | 23130 | 711 | 25 | LOW | -0.13 | 0.132 | 22.08 | 23.50 | 1.387 | 0.183 | / |
| | State1&3&5 | | Top Edge | 10 | 23130 | 711 | 1 | LOW | -0.13 | 0.022 | 23.12 | 24.50 | 1.374 | 0.030 | / |
| | State1&3&5 | | | 10 | 23130 | 711 | 25 | LOW | 0.19 | 0.017 | 22.08 | 23.50 | 1.387 | 0.024 | / |
| | State1&3&5 | | Bottom Edge | 10 | 23130 | 711 | 1 | LOW | -0.04 | 0.085 | 23.12 | 24.50 | 1.374 | 0.117 | / |
| | State1&3&5 | | | 10 | 23130 | 711 | 25 | LOW | -0.18 | 0.080 | 22.08 | 23.50 | 1.387 | 0.111 | / |

Note: Refer to ANNEX C for the detailed test data for each test configuration.

## 11.11 LTE Band 13 (10MHz Bandwidth)

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Num. | RB Start | Power Drift (dB) | 1g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head** | | | | | | | | | | | | | | | |
| Ant.1 | State2&4&6 | QPSK | Left Cheek | 0 | 23230 | 782 | 1 | MID | 0.10 | 0.052 | 22.73 | 23.70 | 1.250 | 0.065 | / |
| | State2&4&6 | | | 0 | 23230 | 782 | 25 | LOW | 0.14 | 0.041 | 21.91 | 22.70 | 1.199 | 0.049 | / |
| | State2&4&6 | | Left Tilt | 0 | 23230 | 782 | 1 | MID | -0.01 | 0.032 | 22.73 | 23.70 | 1.250 | 0.040 | / |
| | State2&4&6 | | | 0 | 23230 | 782 | 25 | LOW | -0.04 | 0.029 | 21.91 | 22.70 | 1.199 | 0.035 | / |
| | State2&4&6 | | Right Cheek | 0 | 23230 | 782 | 1 | MID | 0.04 | 0.110 | 22.73 | 23.70 | 1.250 | **0.138** | 35# |
| | State2&4&6 | | | 0 | 23230 | 782 | 25 | LOW | 0.06 | 0.084 | 21.91 | 22.70 | 1.199 | 0.101 | / |
| | State2&4&6 | | Right Tilt | 0 | 23230 | 782 | 1 | MID | 0.05 | 0.048 | 22.73 | 23.70 | 1.250 | 0.060 | / |
| | State2&4&6 | | | 0 | 23230 | 782 | 25 | LOW | 0.08 | 0.046 | 21.91 | 22.70 | 1.199 | 0.055 | / |
| Ant.0 | State2&4&6 | QPSK | Left Cheek | 0 | 23230 | 782 | 1 | MID | -0.07 | 0.047 | 22.89 | 24.10 | 1.321 | 0.062 | / |
| | State2&4&6 | | | 0 | 23230 | 782 | 25 | LOW | 0.18 | 0.038 | 22.09 | 23.10 | 1.262 | 0.048 | / |
| | State2&4&6 | | Left Tilt | 0 | 23230 | 782 | 1 | MID | 0.08 | 0.036 | 22.89 | 24.10 | 1.321 | 0.048 | / |
| | State2&4&6 | | | 0 | 23230 | 782 | 25 | LOW | -0.12 | 0.029 | 22.09 | 23.10 | 1.262 | 0.037 | / |
| | State2&4&6 | | Right Cheek | 0 | 23230 | 782 | 1 | MID | -0.02 | 0.056 | 22.89 | 24.10 | 1.321 | 0.074 | / |
| | State2&4&6 | | | 0 | 23230 | 782 | 25 | LOW | -0.06 | 0.044 | 22.09 | 23.10 | 1.262 | 0.056 | / |
| | State2&4&6 | | Right Tilt | 0 | 23230 | 782 | 1 | MID | -0.07 | 0.038 | 22.89 | 24.10 | 1.321 | 0.050 | / |
| | State2&4&6 | | | 0 | 23230 | 782 | 25 | LOW | 0.00 | 0.032 | 22.09 | 23.10 | 1.262 | 0.040 | / |
| **Body-worn** | | | | | | | | | | | | | | | |
| Ant.1 | State1&3&5 | QPSK | Front Side | 15 | 23230 | 782 | 1 | MID | 0.16 | 0.033 | 22.73 | 23.70 | 1.250 | 0.041 | / |
| | State1&3&5 | | | 15 | 23230 | 782 | 25 | LOW | 0.02 | 0.036 | 21.91 | 22.70 | 1.199 | 0.043 | / |
| | State1&3&5 | | Back Side | 15 | 23230 | 782 | 1 | MID | 0.14 | 0.041 | 22.73 | 23.70 | 1.250 | 0.051 | / |
| | State1&3&5 | | | 15 | 23230 | 782 | 25 | LOW | 0.10 | 0.043 | 21.91 | 22.70 | 1.199 | 0.052 | / |
| Ant.0 | State1&3&5 | QPSK | Front Side | 15 | 23230 | 782 | 1 | MID | -0.14 | 0.041 | 22.89 | 24.10 | 1.321 | 0.054 | / |
| | State1&3&5 | | | 15 | 23230 | 782 | 25 | LOW | -0.14 | 0.038 | 22.09 | 23.10 | 1.262 | 0.048 | / |
| | State1&3&5 | | Back Side | 15 | 23230 | 782 | 1 | MID | 0.00 | 0.053 | 22.89 | 24.10 | 1.321 | **0.070** | 36# |
| | State1&3&5 | | | 15 | 23230 | 782 | 25 | LOW | 0.03 | 0.051 | 22.09 | 23.10 | 1.262 | 0.064 | / |
| **Hotspot** | | | | | | | | | | | | | | | |
| Ant.1 | State1&3&5 | QPSK | Front Side | 10 | 23230 | 782 | 1 | MID | -0.16 | 0.031 | 22.73 | 23.70 | 1.250 | 0.039 | / |
| | State1&3&5 | | | 10 | 23230 | 782 | 25 | LOW | -0.03 | 0.028 | 21.91 | 22.70 | 1.199 | 0.034 | / |
| | State1&3&5 | | Back Side | 10 | 23230 | 782 | 1 | MID | 0.08 | 0.051 | 22.73 | 23.70 | 1.250 | 0.064 | / |
| | State1&3&5 | | | 10 | 23230 | 782 | 25 | LOW | -0.16 | 0.044 | 21.91 | 22.70 | 1.199 | 0.053 | / |
| | State1&3&5 | | Left Edge | 10 | 23230 | 782 | 1 | MID | 0.11 | 0.023 | 22.73 | 23.70 | 1.250 | 0.029 | / |
| | State1&3&5 | | | 10 | 23230 | 782 | 25 | LOW | -0.02 | 0.016 | 21.91 | 22.70 | 1.199 | 0.019 | / |
| | State1&3&5 | | Right Edge | 10 | 23230 | 782 | 1 | MID | 0.05 | 0.076 | 22.73 | 23.70 | 1.250 | **0.095** | 37# |
| | State1&3&5 | | | 10 | 23230 | 782 | 25 | LOW | 0.17 | 0.063 | 21.91 | 22.70 | 1.199 | 0.076 | / |
| | State1&3&5 | | Top Edge | 10 | 23230 | 782 | 1 | MID | 0.06 | 0.041 | 22.73 | 23.70 | 1.250 | 0.051 | / |
| | State1&3&5 | | | 10 | 23230 | 782 | 25 | LOW | 0.19 | 0.032 | 21.91 | 22.70 | 1.199 | 0.038 | / |
| | State1&3&5 | | Bottom Edge | 10 | 23230 | 782 | 1 | MID | 0.18 | 0.022 | 22.73 | 23.70 | 1.250 | 0.028 | / |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | State1&3&5 | | | 10 | 23230 | 782 | 25 | LOW | 0.04 | 0.019 | 21.91 | 22.70 | 1.199 | 0.023 | / |
| Ant.0 | State1&3&5 | QPSK | Front Side | 10 | 23230 | 782 | 1 | MID | -0.18 | 0.046 | 22.89 | 24.10 | 1.321 | 0.061 | / |
| | State1&3&5 | | | 10 | 23230 | 782 | 25 | LOW | -0.01 | 0.035 | 22.09 | 23.10 | 1.262 | 0.044 | / |
| | State1&3&5 | | Back Side | 10 | 23230 | 782 | 1 | MID | 0.10 | 0.051 | 22.89 | 24.10 | 1.321 | 0.067 | / |
| | State1&3&5 | | | 10 | 23230 | 782 | 25 | LOW | -0.08 | 0.050 | 22.09 | 23.10 | 1.262 | 0.063 | / |
| | State1&3&5 | | Left Edge | 10 | 23230 | 782 | 1 | MID | -0.16 | 0.025 | 22.89 | 24.10 | 1.321 | 0.033 | / |
| | State1&3&5 | | | 10 | 23230 | 782 | 25 | LOW | -0.12 | 0.012 | 22.09 | 23.10 | 1.262 | 0.015 | / |
| | State1&3&5 | | Right Edge | 10 | 23230 | 782 | 1 | MID | 0.16 | 0.054 | 22.89 | 24.10 | 1.321 | 0.071 | / |
| | State1&3&5 | | | 10 | 23230 | 782 | 25 | LOW | 0.12 | 0.046 | 22.09 | 23.10 | 1.262 | 0.058 | / |
| | State1&3&5 | | Top Edge | 10 | 23230 | 782 | 1 | MID | -0.08 | 0.017 | 22.89 | 24.10 | 1.321 | 0.022 | / |
| | State1&3&5 | | | 10 | 23230 | 782 | 25 | LOW | -0.02 | 0.011 | 22.09 | 23.10 | 1.262 | 0.014 | / |
| | State1&3&5 | | Bottom Edge | 10 | 23230 | 782 | 1 | MID | -0.01 | 0.051 | 22.89 | 24.10 | 1.321 | 0.067 | / |
| | State1&3&5 | | | 10 | 23230 | 782 | 25 | LOW | -0.07 | 0.047 | 22.09 | 23.10 | 1.262 | 0.059 | / |

Note: Refer to ANNEX C for the detailed test data for each test configuration.

## 11.12 LTE Band 17 (10MHz Bandwidth)

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Num. | RB Start | Power Drift (dB) | 1g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head** | | | | | | | | | | | | | | | |
| Ant.1 | State2&4&6 | QPSK | Left Cheek | 0 | 23780 | 709 | 1 | LOW | 0.19 | 0.051 | 22.99 | 24.20 | 1.321 | 0.067 | / |
| | State2&4&6 | | | 0 | 23780 | 709 | 25 | MID | -0.18 | 0.044 | 21.97 | 23.20 | 1.327 | 0.058 | / |
| | State2&4&6 | | Left Tilt | 0 | 23780 | 709 | 1 | LOW | 0.17 | 0.024 | 22.99 | 24.20 | 1.321 | 0.032 | / |
| | State2&4&6 | | | 0 | 23780 | 709 | 25 | MID | -0.10 | 0.019 | 21.97 | 23.20 | 1.327 | 0.025 | / |
| | State2&4&6 | | Right Cheek | 0 | 23780 | 709 | 1 | LOW | -0.02 | 0.110 | 22.99 | 24.20 | 1.321 | **0.145** | 38# |
| | State2&4&6 | | | 0 | 23780 | 709 | 25 | MID | -0.02 | 0.104 | 21.97 | 23.20 | 1.327 | 0.138 | / |
| | State2&4&6 | | Right Tilt | 0 | 23780 | 709 | 1 | LOW | -0.12 | 0.058 | 22.99 | 24.20 | 1.321 | 0.077 | / |
| | State2&4&6 | | | 0 | 23780 | 709 | 25 | MID | 0.11 | 0.052 | 21.97 | 23.20 | 1.327 | 0.069 | / |
| Ant.0 | State2&4&6 | QPSK | Left Cheek | 0 | 23780 | 709 | 1 | LOW | 0.06 | 0.069 | 23.10 | 24.50 | 1.380 | 0.095 | / |
| | State2&4&6 | | | 0 | 23780 | 709 | 25 | MID | 0.00 | 0.061 | 22.08 | 23.50 | 1.387 | 0.085 | / |
| | State2&4&6 | | Left Tilt | 0 | 23780 | 709 | 1 | LOW | 0.15 | 0.033 | 23.10 | 24.50 | 1.380 | 0.046 | / |
| | State2&4&6 | | | 0 | 23780 | 709 | 25 | MID | 0.08 | 0.028 | 22.08 | 23.50 | 1.387 | 0.039 | / |
| | State2&4&6 | | Right Cheek | 0 | 23780 | 709 | 1 | LOW | 0.19 | 0.057 | 23.10 | 24.50 | 1.380 | 0.079 | / |
| | State2&4&6 | | | 0 | 23780 | 709 | 25 | MID | -0.16 | 0.044 | 22.08 | 23.50 | 1.387 | 0.061 | / |
| | State2&4&6 | | Right Tilt | 0 | 23780 | 709 | 1 | LOW | 0.13 | 0.032 | 23.10 | 24.50 | 1.380 | 0.044 | / |
| | State2&4&6 | | | 0 | 23780 | 709 | 25 | MID | 0.00 | 0.026 | 22.08 | 23.50 | 1.387 | 0.036 | / |
| **Body-worn** | | | | | | | | | | | | | | | |
| Ant.1 | State1&3&5 | QPSK | Front Side | 15 | 23780 | 709 | 1 | LOW | 0.10 | 0.025 | 22.99 | 24.20 | 1.321 | 0.033 | / |
| | State1&3&5 | | | 15 | 23780 | 709 | 25 | MID | -0.10 | 0.021 | 21.97 | 23.20 | 1.327 | 0.028 | / |
| | State1&3&5 | | Back Side | 15 | 23780 | 709 | 1 | LOW | -0.10 | 0.036 | 22.99 | 24.20 | 1.321 | 0.048 | / |
| | State1&3&5 | | | 15 | 23780 | 709 | 25 | MID | 0.13 | 0.028 | 21.97 | 23.20 | 1.327 | 0.037 | / |
| Ant.0 | State1&3&5 | QPSK | Front Side | 15 | 23780 | 709 | 1 | LOW | 0.05 | 0.063 | 23.10 | 24.50 | 1.380 | 0.087 | / |
| | State1&3&5 | | | 15 | 23780 | 709 | 25 | MID | 0.09 | 0.051 | 22.08 | 23.50 | 1.387 | 0.071 | / |
| | State1&3&5 | | Back Side | 15 | 23780 | 709 | 1 | LOW | -0.01 | 0.113 | 23.10 | 24.50 | 1.380 | **0.156** | 39# |
| | State1&3&5 | | | 15 | 23780 | 709 | 25 | MID | 0.04 | 0.106 | 22.08 | 23.50 | 1.387 | 0.147 | / |
| **Hotspot** | | | | | | | | | | | | | | | |
| Ant.1 | State1&3&5 | QPSK | Front Side | 10 | 23780 | 709 | 1 | LOW | 0.16 | 0.037 | 22.99 | 24.20 | 1.321 | 0.049 | / |
| | State1&3&5 | | | 10 | 23780 | 709 | 25 | MID | -0.03 | 0.032 | 21.97 | 23.20 | 1.327 | 0.042 | / |
| | State1&3&5 | | Back Side | 10 | 23780 | 709 | 1 | LOW | 0.01 | 0.041 | 22.99 | 24.20 | 1.321 | 0.054 | / |
| | State1&3&5 | | | 10 | 23780 | 709 | 25 | MID | 0.09 | 0.038 | 21.97 | 23.20 | 1.327 | 0.050 | / |
| | State1&3&5 | | Left Edge | 10 | 23780 | 709 | 1 | LOW | -0.10 | 0.065 | 22.99 | 24.20 | 1.321 | 0.086 | / |
| | State1&3&5 | | | 10 | 23780 | 709 | 25 | MID | 0.12 | 0.069 | 21.97 | 23.20 | 1.327 | 0.092 | / |
| | State1&3&5 | | Right Edge | 10 | 23780 | 709 | 1 | LOW | -0.19 | 0.061 | 22.99 | 24.20 | 1.321 | 0.081 | / |
| | State1&3&5 | | | 10 | 23780 | 709 | 25 | MID | 0.03 | 0.055 | 21.97 | 23.20 | 1.327 | 0.073 | / |
| | State1&3&5 | | Top Edge | 10 | 23780 | 709 | 1 | LOW | 0.09 | 0.028 | 22.99 | 24.20 | 1.321 | 0.037 | / |
| | State1&3&5 | | | 10 | 23780 | 709 | 25 | MID | -0.13 | 0.022 | 21.97 | 23.20 | 1.327 | 0.029 | / |
| | State1&3&5 | | Bottom Edge | 10 | 23780 | 709 | 1 | LOW | -0.05 | 0.014 | 22.99 | 24.20 | 1.321 | 0.018 | / |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | State1&3&5 | | | 10 | 23780 | 709 | 25 | MID | 0.13 | 0.011 | 21.97 | 23.20 | 1.327 | 0.015 | / |
| Ant.0 | State1&3&5 | QPSK | Front Side | 10 | 23780 | 709 | 1 | LOW | 0.02 | 0.056 | 23.10 | 24.50 | 1.380 | 0.077 | / |
| | State1&3&5 | | | 10 | 23780 | 709 | 25 | MID | 0.00 | 0.045 | 22.08 | 23.50 | 1.387 | 0.062 | / |
| | State1&3&5 | | Back Side | 10 | 23780 | 709 | 1 | LOW | -0.08 | 0.075 | 23.10 | 24.50 | 1.380 | 0.104 | / |
| | State1&3&5 | | | 10 | 23780 | 709 | 25 | MID | 0.04 | 0.062 | 22.08 | 23.50 | 1.387 | 0.086 | / |
| | State1&3&5 | | Left Edge | 10 | 23780 | 709 | 1 | LOW | -0.14 | 0.052 | 23.10 | 24.50 | 1.380 | 0.072 | / |
| | State1&3&5 | | | 10 | 23780 | 709 | 25 | MID | -0.10 | 0.041 | 22.08 | 23.50 | 1.387 | 0.057 | / |
| | State1&3&5 | | Right Edge | 10 | 23780 | 709 | 1 | LOW | 0.06 | 0.086 | 23.10 | 24.50 | 1.380 | **0.119** | 40# |
| | State1&3&5 | | | 10 | 23780 | 709 | 25 | MID | 0.09 | 0.079 | 22.08 | 23.50 | 1.387 | 0.110 | / |
| | State1&3&5 | | Top Edge | 10 | 23780 | 709 | 1 | LOW | -0.03 | 0.011 | 23.10 | 24.50 | 1.380 | 0.015 | / |
| | State1&3&5 | | | 10 | 23780 | 709 | 25 | MID | 0.18 | 0.008 | 22.08 | 23.50 | 1.387 | 0.011 | / |
| | State1&3&5 | | Bottom Edge | 10 | 23780 | 709 | 1 | LOW | -0.06 | 0.056 | 23.10 | 24.50 | 1.380 | 0.077 | / |
| | State1&3&5 | | | 10 | 23780 | 709 | 25 | MID | -0.17 | 0.046 | 22.08 | 23.50 | 1.387 | 0.064 | / |

Note: Refer to ANNEX C for the detailed test data for each test configuration.

## 11.13 LTE Band 26 (15MHz Bandwidth)

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Num. | RB Start | Power Drift (dB) | 1g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head** | | | | | | | | | | | | | | | |
| Ant.1 | State2&4&6 | QPSK | Left Cheek | 0 | 26965 | 841.5 | 1 | LOW | 0.15 | 0.123 | 23.23 | 24.00 | 1.194 | 0.147 | / |
| | State2&4&6 | | | 0 | 26765 | 821.5 | 36 | MID | -0.13 | 0.116 | 22.22 | 23.00 | 1.197 | 0.139 | / |
| | State2&4&6 | | Left Tilt | 0 | 26965 | 841.5 | 1 | LOW | -0.09 | 0.071 | 23.23 | 24.00 | 1.194 | 0.085 | / |
| | State2&4&6 | | | 0 | 26765 | 821.5 | 36 | MID | 0.06 | 0.062 | 22.22 | 23.00 | 1.197 | 0.074 | / |
| | State2&4&6 | | Right Cheek | 0 | 26965 | 841.5 | 1 | LOW | 0.00 | 0.247 | 23.23 | 24.00 | 1.194 | **0.295** | 41# |
| | State2&4&6 | | | 0 | 26965 | 841.5 | 36 | MID | -0.03 | 0.202 | 22.22 | 23.00 | 1.197 | 0.242 | / |
| | State2&4&6 | | Right Tilt | 0 | 26965 | 841.5 | 1 | LOW | -0.12 | 0.131 | 23.23 | 24.00 | 1.194 | 0.156 | / |
| | State2&4&6 | | | 0 | 26765 | 821.5 | 36 | MID | -0.09 | 0.122 | 22.22 | 23.00 | 1.197 | 0.146 | / |
| Ant.0 | State2&4&6 | QPSK | Left Cheek | 0 | 26965 | 841.5 | 1 | MID | 0.07 | 0.124 | 23.49 | 24.00 | 1.125 | 0.140 | / |
| | State2&4&6 | | | 0 | 26965 | 841.5 | 36 | LOW | -0.04 | 0.102 | 22.47 | 23.00 | 1.130 | 0.115 | / |
| | State2&4&6 | | Left Tilt | 0 | 26965 | 841.5 | 1 | MID | 0.12 | 0.068 | 23.49 | 24.00 | 1.125 | 0.077 | / |
| | State2&4&6 | | | 0 | 26965 | 841.5 | 36 | LOW | -0.15 | 0.060 | 22.47 | 23.00 | 1.130 | 0.068 | / |
| | State2&4&6 | | Right Cheek | 0 | 26965 | 841.5 | 1 | MID | 0.17 | 0.092 | 23.49 | 24.00 | 1.125 | 0.104 | / |
| | State2&4&6 | | | 0 | 26965 | 841.5 | 36 | LOW | 0.14 | 0.081 | 22.47 | 23.00 | 1.130 | 0.092 | / |
| | State2&4&6 | | Right Tilt | 0 | 26965 | 841.5 | 1 | MID | -0.09 | 0.059 | 23.49 | 24.00 | 1.125 | 0.066 | / |
| | State2&4&6 | | | 0 | 26965 | 841.5 | 36 | LOW | -0.13 | 0.046 | 22.47 | 23.00 | 1.130 | 0.052 | / |
| **Body-worn** | | | | | | | | | | | | | | | |
| Ant.1 | State1&3&5 | QPSK | Front Side | 15 | 26965 | 841.5 | 1 | LOW | 0.02 | 0.034 | 23.23 | 24.00 | 1.194 | 0.041 | / |
| | State1&3&5 | | | 15 | 26765 | 821.5 | 36 | MID | -0.02 | 0.031 | 22.22 | 23.00 | 1.197 | 0.037 | / |
| | State1&3&5 | | Back Side | 15 | 26965 | 841.5 | 1 | LOW | 0.16 | 0.048 | 23.23 | 24.00 | 1.194 | 0.057 | / |
| | State1&3&5 | | | 15 | 26765 | 821.5 | 36 | MID | -0.06 | 0.042 | 22.22 | 23.00 | 1.197 | 0.050 | / |
| Ant.0 | State1&3&5 | QPSK | Front Side | 15 | 26965 | 841.5 | 1 | MID | 0.00 | 0.094 | 23.49 | 24.00 | 1.125 | 0.106 | / |
| | State1&3&5 | | | 15 | 26965 | 841.5 | 36 | LOW | 0.15 | 0.088 | 22.47 | 23.00 | 1.130 | 0.099 | / |
| | State1&3&5 | | Back Side | 15 | 26965 | 841.5 | 1 | MID | -0.01 | 0.129 | 23.49 | 24.00 | 1.125 | **0.145** | 42# |
| | State1&3&5 | | | 15 | 26965 | 841.5 | 36 | LOW | -0.11 | 0.118 | 22.47 | 23.00 | 1.130 | 0.133 | / |
| Ant.0(ENDC) | State1&3&5 | QPSK | Front Side | 15 | 26965 | 841.5 | 1 | MID | -0.19 | 0.026 | 21.03 | 21.50 | 1.114 | 0.029 | / |
| | State1&3&5 | | | 15 | 26965 | 841.5 | 36 | LOW | 0.00 | 0.023 | 20.97 | 21.50 | 1.130 | 0.026 | / |
| | State1&3&5 | | Back Side | 15 | 26965 | 841.5 | 1 | MID | -0.07 | 0.032 | 21.03 | 21.50 | 1.114 | 0.036 | / |
| | State1&3&5 | | | 15 | 26965 | 841.5 | 36 | LOW | 0.12 | 0.029 | 20.97 | 21.50 | 1.130 | 0.033 | / |
| **Hotspot** | | | | | | | | | | | | | | | |
| Ant.1 | State1&3&5 | QPSK | Front Side | 10 | 26965 | 841.5 | 1 | LOW | 0.07 | 0.059 | 23.23 | 24.00 | 1.194 | 0.070 | / |
| | State1&3&5 | | | 10 | 26765 | 821.5 | 36 | MID | -0.04 | 0.054 | 22.22 | 23.00 | 1.197 | 0.065 | / |
| | State1&3&5 | | Back Side | 10 | 26965 | 841.5 | 1 | LOW | -0.03 | 0.092 | 23.23 | 24.00 | 1.194 | 0.110 | / |
| | State1&3&5 | | | 10 | 26765 | 821.5 | 36 | MID | -0.08 | 0.071 | 22.22 | 23.00 | 1.197 | 0.085 | / |
| | State1&3&5 | | Left Edge | 10 | 26965 | 841.5 | 1 | LOW | -0.11 | 0.034 | 23.23 | 24.00 | 1.194 | 0.041 | / |
| | State1&3&5 | | | 10 | 26765 | 821.5 | 36 | MID | 0.17 | 0.025 | 22.22 | 23.00 | 1.197 | 0.030 | / |
| | State1&3&5 | | Right Edge | 10 | 26965 | 841.5 | 1 | LOW | 0.00 | 0.071 | 23.23 | 24.00 | 1.194 | 0.085 | / |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | State1&3&5 | | | 10 | 26765 | 821.5 | 36 | MID | 0.10 | 0.062 | 22.22 | 23.00 | 1.197 | 0.074 | / |
| | State1&3&5 | | Top Edge | 10 | 26965 | 841.5 | 1 | LOW | -0.09 | 0.027 | 23.23 | 24.00 | 1.194 | 0.032 | / |
| | State1&3&5 | | | 10 | 26765 | 821.5 | 36 | MID | 0.04 | 0.021 | 22.22 | 23.00 | 1.197 | 0.025 | / |
| | State1&3&5 | | Bottom Edge | 10 | 26965 | 841.5 | 1 | LOW | -0.10 | 0.016 | 23.23 | 24.00 | 1.194 | 0.019 | / |
| | State1&3&5 | | | 10 | 26765 | 821.5 | 36 | MID | -0.03 | 0.011 | 22.22 | 23.00 | 1.197 | 0.013 | / |
| Ant.0 | State1&3&5 | QPSK | Front Side | 10 | 26965 | 841.5 | 1 | MID | 0.13 | 0.126 | 23.49 | 24.00 | 1.125 | 0.142 | / |
| | State1&3&5 | | | 10 | 26965 | 841.5 | 36 | LOW | 0.11 | 0.112 | 22.47 | 23.00 | 1.130 | 0.127 | / |
| | State1&3&5 | | Back Side | 10 | 26965 | 841.5 | 1 | MID | 0.00 | 0.197 | 23.49 | 24.00 | 1.125 | **0.222** | 43# |
| | State1&3&5 | | | 10 | 26965 | 841.5 | 36 | LOW | 0.00 | 0.146 | 22.47 | 23.00 | 1.130 | 0.165 | / |
| | State1&3&5 | | Left Edge | 10 | 26965 | 841.5 | 1 | MID | 0.12 | 0.037 | 23.49 | 24.00 | 1.125 | 0.042 | / |
| | State1&3&5 | | | 10 | 26965 | 841.5 | 36 | LOW | 0.14 | 0.032 | 22.47 | 23.00 | 1.130 | 0.036 | / |
| | State1&3&5 | | Right Edge | 10 | 26965 | 841.5 | 1 | MID | 0.09 | 0.078 | 23.49 | 24.00 | 1.125 | 0.088 | / |
| | State1&3&5 | | | 10 | 26965 | 841.5 | 36 | LOW | 0.05 | 0.076 | 22.47 | 23.00 | 1.130 | 0.086 | / |
| | State1&3&5 | | Top Edge | 10 | 26965 | 841.5 | 1 | MID | 0.16 | 0.011 | 23.49 | 24.00 | 1.125 | 0.012 | / |
| | State1&3&5 | | | 10 | 26965 | 841.5 | 36 | LOW | -0.13 | 0.009 | 22.47 | 23.00 | 1.130 | 0.010 | / |
| | State1&3&5 | | Bottom Edge | 10 | 26965 | 841.5 | 1 | MID | -0.09 | 0.092 | 23.49 | 24.00 | 1.125 | 0.104 | / |
| | State1&3&5 | | | 10 | 26965 | 841.5 | 36 | LOW | -0.12 | 0.094 | 22.47 | 23.00 | 1.130 | 0.106 | / |
| Ant.0(ENDC) | State1&3&5 | QPSK | Front Side | 10 | 26965 | 841.5 | 1 | MID | -0.18 | 0.081 | 21.03 | 21.50 | 1.114 | 0.090 | / |
| | State1&3&5 | | | 10 | 26965 | 841.5 | 36 | LOW | -0.06 | 0.079 | 20.97 | 21.50 | 1.130 | 0.089 | / |
| | State1&3&5 | | Back Side | 10 | 26965 | 841.5 | 1 | MID | 0.13 | 0.133 | 21.03 | 21.50 | 1.114 | 0.148 | / |
| | State1&3&5 | | | 10 | 26965 | 841.5 | 36 | LOW | 0.04 | 0.106 | 20.97 | 21.50 | 1.130 | 0.120 | / |
| | State1&3&5 | | Left Edge | 10 | 26965 | 841.5 | 1 | MID | -0.02 | 0.026 | 21.03 | 21.50 | 1.114 | 0.029 | / |
| | State1&3&5 | | | 10 | 26965 | 841.5 | 36 | LOW | -0.13 | 0.023 | 20.97 | 21.50 | 1.130 | 0.026 | / |
| | State1&3&5 | | Right Edge | 10 | 26965 | 841.5 | 1 | MID | -0.08 | 0.049 | 21.03 | 21.50 | 1.114 | 0.055 | / |
| | State1&3&5 | | | 10 | 26965 | 841.5 | 36 | LOW | 0.07 | 0.048 | 20.97 | 21.50 | 1.130 | 0.054 | / |
| | State1&3&5 | | Top Edge | 10 | 26965 | 841.5 | 1 | MID | 0.10 | 0.008 | 21.03 | 21.50 | 1.114 | 0.009 | / |
| | State1&3&5 | | | 10 | 26965 | 841.5 | 36 | LOW | 0.10 | 0.007 | 20.97 | 21.50 | 1.130 | 0.008 | / |
| | State1&3&5 | | Bottom Edge | 10 | 26965 | 841.5 | 1 | MID | 0.19 | 0.063 | 21.03 | 21.50 | 1.114 | 0.070 | / |
| | State1&3&5 | | | 10 | 26965 | 841.5 | 36 | LOW | 0.04 | 0.058 | 20.97 | 21.50 | 1.130 | 0.066 | / |

Note: Refer to ANNEX C for the detailed test data for each test configuration.

## 11.14 LTE Band 66 (20MHz Bandwidth)

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Num. | RB Start | Power Drift (dB) | 1g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head** | | | | | | | | | | | | | | | |
| Ant.4 | State2&4 | QPSK | Left Cheek | 0 | 132322 | 1745 | 1 | MID | -0.09 | 0.111 | 16.31 | 18.00 | 1.476 | 0.164 | / |
| | State2&4 | | | 0 | 132322 | 1745 | 50 | MID | -0.03 | 0.106 | 16.34 | 18.00 | 1.466 | 0.155 | / |
| | State2&4 | | Left Tilt | 0 | 132322 | 1745 | 1 | MID | 0.14 | 0.134 | 16.31 | 18.00 | 1.476 | 0.198 | / |
| | State2&4 | | | 0 | 132322 | 1745 | 50 | MID | -0.13 | 0.128 | 16.34 | 18.00 | 1.466 | 0.188 | / |
| | State2&4 | | Right Cheek | 0 | 132322 | 1745 | 1 | MID | -0.08 | 0.144 | 16.31 | 18.00 | 1.476 | 0.213 | / |
| | State2&4 | | | 0 | 132322 | 1745 | 50 | MID | 0.03 | 0.141 | 16.34 | 18.00 | 1.466 | 0.207 | / |
| | State2&4 | | Right Tilt | 0 | 132322 | 1745 | 1 | MID | 0.04 | 0.156 | 16.31 | 18.00 | 1.476 | 0.230 | / |
| | State2&4 | | | 0 | 132322 | 1745 | 50 | MID | 0.03 | 0.163 | 16.34 | 18.00 | 1.466 | 0.239 | / |
| Ant.4 | State6 | QPSK | Left Cheek | 0 | 132322 | 1745 | 1 | MID | -0.13 | 0.081 | 15.35 | 17.00 | 1.462 | 0.118 | / |
| | State6 | | | 0 | 132322 | 1745 | 50 | MID | -0.09 | 0.080 | 15.33 | 17.00 | 1.469 | 0.118 | / |
| | State6 | | Left Tilt | 0 | 132322 | 1745 | 1 | MID | 0.14 | 0.101 | 15.35 | 17.00 | 1.462 | 0.148 | / |
| | State6 | | | 0 | 132322 | 1745 | 50 | MID | 0.03 | 0.100 | 15.33 | 17.00 | 1.469 | 0.147 | / |
| | State6 | | Right Cheek | 0 | 132322 | 1745 | 1 | MID | 0.12 | 0.122 | 15.35 | 17.00 | 1.462 | 0.178 | / |
| | State6 | | | 0 | 132322 | 1745 | 50 | MID | 0.16 | 0.116 | 15.33 | 17.00 | 1.469 | 0.170 | / |
| | State6 | | Right Tilt | 0 | 132322 | 1745 | 1 | MID | -0.18 | 0.134 | 15.35 | 17.00 | 1.462 | 0.196 | / |
| | State6 | | | 0 | 132322 | 1745 | 50 | MID | -0.18 | 0.131 | 15.33 | 17.00 | 1.469 | 0.192 | / |
| Ant.4 (DC_66A_n7A) | State2&4&6 | QPSK | Left Cheek | 0 | 132322 | 1745 | 1 | HIGH | -0.07 | 0.050 | 14.52 | 15.00 | 1.117 | 0.056 | / |
| | State2&4&6 | | | 0 | 132322 | 1745 | 50 | HIGH | 0.03 | 0.054 | 14.54 | 15.00 | 1.112 | 0.060 | / |
| | State2&4&6 | | Left Tilt | 0 | 132322 | 1745 | 1 | HIGH | 0.11 | 0.061 | 14.52 | 15.00 | 1.117 | 0.068 | / |
| | State2&4&6 | | | 0 | 132322 | 1745 | 50 | HIGH | 0.01 | 0.064 | 14.54 | 15.00 | 1.112 | 0.071 | / |
| | State2&4&6 | | Right Cheek | 0 | 132322 | 1745 | 1 | HIGH | -0.12 | 0.086 | 14.52 | 15.00 | 1.117 | 0.096 | / |
| | State2&4&6 | | | 0 | 132322 | 1745 | 50 | HIGH | 0.16 | 0.090 | 14.54 | 15.00 | 1.112 | 0.100 | / |
| | State2&4&6 | | Right Tilt | 0 | 132322 | 1745 | 1 | HIGH | -0.12 | 0.086 | 14.52 | 15.00 | 1.117 | 0.096 | / |
| | State2&4&6 | | | 0 | 132322 | 1745 | 50 | HIGH | 0.07 | 0.091 | 14.54 | 15.00 | 1.112 | 0.101 | / |
| Ant.4 (DC_66A_n5A) | State2&4&6 | QPSK | Left Cheek | 0 | 132322 | 1745 | 1 | HIGH | 0.11 | 0.038 | 13.79 | 14.40 | 1.151 | 0.044 | / |
| | State2&4&6 | | | 0 | 132322 | 1745 | 50 | HIGH | -0.09 | 0.037 | 13.95 | 14.40 | 1.109 | 0.041 | / |
| | State2&4&6 | | Left Tilt | 0 | 132322 | 1745 | 1 | HIGH | -0.19 | 0.045 | 13.79 | 14.40 | 1.151 | 0.052 | / |
| | State2&4&6 | | | 0 | 132322 | 1745 | 50 | HIGH | 0.12 | 0.044 | 13.95 | 14.40 | 1.109 | 0.049 | / |
| | State2&4&6 | | Right Cheek | 0 | 132322 | 1745 | 1 | HIGH | -0.15 | 0.077 | 13.79 | 14.40 | 1.151 | 0.089 | / |
| | State2&4&6 | | | 0 | 132322 | 1745 | 50 | HIGH | -0.18 | 0.071 | 13.95 | 14.40 | 1.109 | 0.079 | / |
| | State2&4&6 | | Right Tilt | 0 | 132322 | 1745 | 1 | HIGH | -0.08 | 0.082 | 13.79 | 14.40 | 1.151 | 0.094 | / |
| | State2&4&6 | | | 0 | 132322 | 1745 | 50 | HIGH | -0.18 | 0.081 | 13.95 | 14.40 | 1.109 | 0.090 | / |
| Ant.3 | State2&4&6 | QPSK | Left Cheek | 0 | 132072 | 1720 | 1 | MID | 0.09 | 0.145 | 23.49 | 24.00 | 1.125 | 0.163 | / |
| | State2&4&6 | | | 0 | 132072 | 1720 | 50 | MID | 0.15 | 0.146 | 22.47 | 23.00 | 1.130 | 0.165 | / |
| | State2&4&6 | | Left Tilt | 0 | 132072 | 1720 | 1 | MID | 0.18 | 0.056 | 23.49 | 24.00 | 1.125 | 0.063 | / |
| | State2&4&6 | | | 0 | 132072 | 1720 | 50 | MID | 0.11 | 0.053 | 22.47 | 23.00 | 1.130 | 0.060 | / |
| | State2&4&6 | | Right Cheek | 0 | 132072 | 1720 | 1 | MID | 0.16 | 0.129 | 23.49 | 24.00 | 1.125 | 0.145 | / |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | State2&4&6 | | | 0 | 132072 | 1720 | 50 | MID | -0.01 | 0.116 | 22.47 | 23.00 | 1.130 | 0.131 | / |
| | State2&4&6 | | Right Tilt | 0 | 132072 | 1720 | 1 | MID | -0.10 | 0.069 | 23.49 | 24.00 | 1.125 | 0.078 | / |
| | State2&4&6 | | | 0 | 132072 | 1720 | 50 | MID | 0.01 | 0.059 | 22.47 | 23.00 | 1.130 | 0.067 | / |
| Ant.1(ENDC) | State2&4&6 | QPSK | Left Cheek | 0 | 132572 | 1770 | 1 | MID | 0.14 | 0.193 | 22.46 | 23.40 | 1.242 | 0.240 | / |
| | State2&4&6 | | | 0 | 132572 | 1770 | 50 | LOW | -0.13 | 0.177 | 21.66 | 22.40 | 1.186 | 0.210 | / |
| | State2&4&6 | | Left Tilt | 0 | 132572 | 1770 | 1 | MID | 0.11 | 0.131 | 22.46 | 23.40 | 1.242 | 0.163 | / |
| | State2&4&6 | | | 0 | 132572 | 1770 | 50 | LOW | 0.00 | 0.116 | 21.66 | 22.40 | 1.186 | 0.138 | / |
| | State2&4&6 | | Right Cheek | 0 | 132572 | 1770 | 1 | MID | -0.01 | 0.589 | 22.46 | 23.40 | 1.242 | **0.732** | 44# |
| | State2&4&6 | | | 0 | 132572 | 1770 | 50 | LOW | -0.17 | 0.499 | 21.66 | 22.40 | 1.186 | 0.592 | / |
| | State2&4&6 | | Right Tilt | 0 | 132572 | 1770 | 1 | MID | -0.08 | 0.153 | 22.46 | 23.40 | 1.242 | 0.190 | / |
| | State2&4&6 | | | 0 | 132572 | 1770 | 50 | LOW | -0.17 | 0.144 | 21.66 | 22.40 | 1.186 | 0.171 | / |
| **Body-worn** | | | | | | | | | | | | | | | |
| Ant.4 | State1 | QPSK | Front Side | 15 | 132322 | 1745 | 1 | MID | -0.05 | 0.068 | 21.40 | 24.00 | 1.820 | 0.124 | / |
| | State1 | | | 15 | 132322 | 1745 | 50 | MID | -0.13 | 0.061 | 21.38 | 23.00 | 1.452 | 0.089 | / |
| | State1 | | Back Side | 15 | 132322 | 1745 | 1 | MID | 0.00 | 0.055 | 21.40 | 23.00 | 1.445 | 0.079 | / |
| | State1 | | | 15 | 132322 | 1745 | 50 | MID | -0.06 | 0.053 | 21.38 | 23.00 | 1.452 | 0.077 | / |
| Ant.4 | State3&5 | QPSK | Front Side | 15 | 132322 | 1745 | 1 | MID | 0.14 | 0.041 | 19.87 | 21.50 | 1.455 | 0.060 | / |
| | State3&5 | | | 15 | 132322 | 1745 | 50 | HIGH | 0.05 | 0.042 | 19.84 | 21.50 | 1.466 | 0.062 | / |
| | State3&5 | | Back Side | 15 | 132322 | 1745 | 1 | MID | -0.06 | 0.038 | 19.87 | 21.50 | 1.455 | 0.055 | / |
| | State3&5 | | | 15 | 132322 | 1745 | 50 | HIGH | 0.11 | 0.035 | 19.84 | 21.50 | 1.466 | 0.051 | / |
| Ant.4 (DC_66A_n7A) | State1&3&5 | QPSK | Front Side | 15 | 132322 | 1745 | 1 | MID | 0.04 | 0.016 | 17.49 | 18.00 | 1.125 | 0.018 | / |
| | State1&3&5 | | | 15 | 132322 | 1745 | 50 | MID | -0.13 | 0.013 | 17.45 | 18.00 | 1.135 | 0.015 | / |
| | State1&3&5 | | Back Side | 15 | 132322 | 1745 | 1 | MID | -0.09 | 0.018 | 17.49 | 18.00 | 1.125 | 0.020 | / |
| | State1&3&5 | | | 15 | 132322 | 1745 | 50 | MID | -0.04 | 0.016 | 17.45 | 18.00 | 1.135 | 0.018 | / |
| Ant.4 (DC_66A_n5A) | State1&3&5 | QPSK | Front Side | 15 | 132322 | 1745 | 1 | HIGH | 0.12 | 0.013 | 16.91 | 17.40 | 1.119 | 0.015 | / |
| | State1&3&5 | | | 15 | 132322 | 1745 | 50 | HIGH | -0.14 | 0.014 | 17.05 | 17.40 | 1.084 | 0.015 | / |
| | State1&3&5 | | Back Side | 15 | 132322 | 1745 | 1 | HIGH | 0.04 | 0.016 | 16.91 | 17.40 | 1.119 | 0.018 | / |
| | State1&3&5 | | | 15 | 132322 | 1745 | 50 | HIGH | 0.00 | 0.015 | 17.05 | 17.40 | 1.084 | 0.016 | / |
| Ant.3 | State1&3 | QPSK | Front Side | 15 | 132322 | 1745 | 1 | MID | 0.03 | 0.202 | 21.34 | 22.00 | 1.164 | 0.235 | / |
| | State1&3 | | | 15 | 132322 | 1745 | 50 | LOW | 0.06 | 0.199 | 21.33 | 22.00 | 1.167 | 0.232 | / |
| | State1&3 | | Back Side | 15 | 132322 | 1745 | 1 | MID | 0.01 | 0.274 | 21.34 | 22.00 | 1.164 | **0.319** | 45# |
| | State1&3 | | | 15 | 132322 | 1745 | 50 | LOW | 0.11 | 0.263 | 21.33 | 22.00 | 1.167 | 0.307 | / |
| Ant.3 | State5 | QPSK | Front Side | 15 | 132322 | 1745 | 1 | MID | 0.01 | 0.166 | 19.83 | 20.50 | 1.167 | 0.194 | / |
| | State5 | | | 15 | 132322 | 1745 | 50 | LOW | -0.01 | 0.156 | 19.80 | 20.50 | 1.175 | 0.183 | / |
| | State5 | | Back Side | 15 | 132322 | 1745 | 1 | MID | 0.01 | 0.170 | 19.83 | 20.50 | 1.167 | 0.198 | / |
| | State5 | | | 15 | 132322 | 1745 | 50 | LOW | 0.00 | 0.188 | 19.80 | 20.50 | 1.175 | 0.221 | / |
| Ant.3(ENDC) | State1&3&5 | QPSK | Front Side | 15 | 132322 | 1745 | 1 | MID | -0.13 | 0.066 | 17.44 | 17.50 | 1.014 | 0.067 | / |
| | State1&3&5 | | | 15 | 132322 | 1745 | 50 | LOW | 0.06 | 0.061 | 17.41 | 17.50 | 1.021 | 0.062 | / |
| | State1&3&5 | | Back Side | 15 | 132322 | 1745 | 1 | MID | -0.14 | 0.083 | 17.44 | 17.50 | 1.014 | 0.084 | / |
| | State1&3&5 | | | 15 | 132322 | 1745 | 50 | LOW | 0.09 | 0.079 | 17.41 | 17.50 | 1.021 | 0.081 | / |
| Ant.1(ENDC) | State1&3&5 | QPSK | Front Side | 15 | 132572 | 1770 | 1 | MID | 0.02 | 0.023 | 19.49 | 20.50 | 1.262 | 0.029 | / |
| | State1&3&5 | | | 15 | 132572 | 1770 | 50 | LOW | -0.13 | 0.021 | 19.57 | 20.50 | 1.239 | 0.026 | / |
| | State1&3&5 | | Back Side | 15 | 132572 | 1770 | 1 | MID | 0.02 | 0.032 | 19.49 | 20.50 | 1.262 | 0.040 | / |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | State1&3&5 | | | 15 | 132572 | 1770 | 50 | LOW | -0.03 | 0.033 | 19.57 | 20.50 | 1.239 | 0.041 | / |
| **Hotspot** | | | | | | | | | | | | | | | |
| Ant.4 | State3&5 | QPSK | Front Side | 10 | 132322 | 1745 | 1 | MID | -0.14 | 0.074 | 19.87 | 21.50 | 1.455 | 0.108 | / |
| | State3&5 | | | 10 | 132322 | 1745 | 50 | HIGH | -0.01 | 0.071 | 19.84 | 21.50 | 1.466 | 0.104 | / |
| | State3&5 | | Back Side | 10 | 132322 | 1745 | 1 | MID | -0.14 | 0.076 | 19.87 | 21.50 | 1.455 | 0.111 | / |
| | State3&5 | | | 10 | 132322 | 1745 | 50 | HIGH | -0.19 | 0.075 | 19.84 | 21.50 | 1.466 | 0.110 | / |
| | State3&5 | | Left Edge | 10 | 132322 | 1745 | 1 | MID | 0.10 | 0.018 | 19.87 | 21.50 | 1.455 | 0.026 | / |
| | State3&5 | | | 10 | 132322 | 1745 | 50 | HIGH | 0.14 | 0.016 | 19.84 | 21.50 | 1.466 | 0.023 | / |
| | State3&5 | | Right Edge | 10 | 132322 | 1745 | 1 | MID | 0.01 | 0.043 | 19.87 | 21.50 | 1.455 | 0.063 | / |
| | State3&5 | | | 10 | 132322 | 1745 | 50 | HIGH | -0.01 | 0.044 | 19.84 | 21.50 | 1.466 | 0.065 | / |
| | State3&5 | | Top Edge | 10 | 132322 | 1745 | 1 | MID | -0.02 | 0.155 | 19.87 | 21.50 | 1.455 | 0.226 | / |
| | State3&5 | | | 10 | 132322 | 1745 | 50 | HIGH | 0.05 | 0.161 | 19.84 | 21.50 | 1.466 | 0.236 | / |
| | State3&5 | | Bottom Edge | 10 | 132322 | 1745 | 1 | MID | -0.14 | 0.008 | 19.87 | 21.50 | 1.455 | 0.012 | / |
| | State3&5 | | | 10 | 132322 | 1745 | 50 | HIGH | 0.17 | 0.007 | 19.84 | 21.50 | 1.466 | 0.010 | / |
| Ant.4 (DC_66A_n7A) | State1&3&5 | QPSK | Front Side | 10 | 132322 | 1745 | 1 | MID | -0.07 | 0.032 | 17.49 | 18.00 | 1.125 | 0.036 | / |
| | State1&3&5 | | | 10 | 132322 | 1745 | 50 | MID | -0.11 | 0.031 | 17.45 | 18.00 | 1.135 | 0.035 | / |
| | State1&3&5 | | Back Side | 10 | 132322 | 1745 | 1 | MID | 0.14 | 0.036 | 17.49 | 18.00 | 1.125 | 0.041 | / |
| | State1&3&5 | | | 10 | 132322 | 1745 | 50 | MID | -0.19 | 0.035 | 17.45 | 18.00 | 1.135 | 0.040 | / |
| | State1&3&5 | | Left Edge | 10 | 132322 | 1745 | 1 | MID | 0.04 | 0.006 | 17.49 | 18.00 | 1.125 | 0.007 | / |
| | State1&3&5 | | | 10 | 132322 | 1745 | 50 | MID | -0.06 | 0.008 | 17.45 | 18.00 | 1.135 | 0.009 | / |
| | State1&3&5 | | Right Edge | 10 | 132322 | 1745 | 1 | MID | 0.17 | 0.023 | 17.49 | 18.00 | 1.125 | 0.026 | / |
| | State1&3&5 | | | 10 | 132322 | 1745 | 50 | MID | -0.12 | 0.031 | 17.45 | 18.00 | 1.135 | 0.035 | / |
| | State1&3&5 | | Top Edge | 10 | 132322 | 1745 | 1 | MID | 0.17 | 0.066 | 17.49 | 18.00 | 1.125 | 0.074 | / |
| | State1&3&5 | | | 10 | 132322 | 1745 | 50 | MID | -0.16 | 0.068 | 17.45 | 18.00 | 1.135 | 0.077 | / |
| | State1&3&5 | | Bottom Edge | 10 | 132322 | 1745 | 1 | MID | -0.15 | 0.006 | 17.49 | 18.00 | 1.125 | 0.007 | / |
| | State1&3&5 | | | 10 | 132322 | 1745 | 50 | MID | -0.03 | 0.004 | 17.45 | 18.00 | 1.135 | 0.005 | / |
| Ant.4 (DC_66A_n5A) | State1&3&5 | QPSK | Front Side | 10 | 132322 | 1745 | 1 | HIGH | -0.07 | 0.025 | 16.91 | 17.40 | 1.119 | 0.028 | / |
| | State1&3&5 | | | 10 | 132322 | 1745 | 50 | HIGH | -0.11 | 0.024 | 17.05 | 17.40 | 1.084 | 0.026 | / |
| | State1&3&5 | | Back Side | 10 | 132322 | 1745 | 1 | HIGH | -0.12 | 0.029 | 16.91 | 17.40 | 1.119 | 0.032 | / |
| | State1&3&5 | | | 10 | 132322 | 1745 | 50 | HIGH | -0.19 | 0.027 | 17.05 | 17.40 | 1.084 | 0.029 | / |
| | State1&3&5 | | Left Edge | 10 | 132322 | 1745 | 1 | HIGH | -0.07 | 0.005 | 16.91 | 17.40 | 1.119 | 0.006 | / |
| | State1&3&5 | | | 10 | 132322 | 1745 | 50 | HIGH | -0.13 | 0.004 | 17.05 | 17.40 | 1.084 | 0.004 | / |
| | State1&3&5 | | Right Edge | 10 | 132322 | 1745 | 1 | HIGH | -0.06 | 0.018 | 16.91 | 17.40 | 1.119 | 0.020 | / |
| | State1&3&5 | | | 10 | 132322 | 1745 | 50 | HIGH | -0.08 | 0.016 | 17.05 | 17.40 | 1.084 | 0.017 | / |
| | State1&3&5 | | Top Edge | 10 | 132322 | 1745 | 1 | HIGH | -0.03 | 0.061 | 16.91 | 17.40 | 1.119 | 0.068 | / |
| | State1&3&5 | | | 10 | 132322 | 1745 | 50 | HIGH | -0.17 | 0.058 | 17.05 | 17.40 | 1.084 | 0.063 | / |
| | State1&3&5 | | Bottom Edge | 10 | 132322 | 1745 | 1 | HIGH | -0.17 | 0.004 | 16.91 | 17.40 | 1.119 | 0.004 | / |
| | State1&3&5 | | | 10 | 132322 | 1745 | 50 | HIGH | 0.13 | 0.005 | 17.05 | 17.40 | 1.084 | 0.005 | / |
| Ant.3 | State1&3 | QPSK | Front Side | 10 | 132322 | 1745 | 1 | MID | 0.12 | 0.343 | 21.34 | 22.00 | 1.164 | 0.399 | / |
| | State1&3 | | | 10 | 132322 | 1745 | 50 | LOW | -0.12 | 0.336 | 21.33 | 22.00 | 1.167 | 0.392 | / |
| | State1&3 | | Back Side | 10 | 132322 | 1745 | 1 | MID | 0.13 | 0.434 | 21.34 | 22.00 | 1.164 | 0.505 | / |
| | State1&3 | | | 10 | 132322 | 1745 | 50 | LOW | -0.02 | 0.428 | 21.33 | 22.00 | 1.167 | 0.499 | / |
| | State1&3 | | Left Edge | 10 | 132322 | 1745 | 1 | MID | -0.15 | 0.135 | 21.34 | 22.00 | 1.164 | 0.157 | / |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | State1&3 | | | 10 | 132322 | 1745 | 50 | LOW | 0.14 | 0.131 | 21.33 | 22.00 | 1.167 | 0.153 | / |
| | State1&3 | | Right Edge | 10 | 132322 | 1745 | 1 | MID | -0.14 | 0.082 | 21.34 | 22.00 | 1.164 | 0.095 | / |
| | State1&3 | | | 10 | 132322 | 1745 | 50 | LOW | 0.08 | 0.078 | 21.33 | 22.00 | 1.167 | 0.091 | / |
| | State1&3 | | Top Edge | 10 | 132322 | 1740 | 1 | MID | -0.11 | 0.033 | 21.34 | 22.00 | 1.164 | 0.038 | / |
| | State1&3 | | | 10 | 132322 | 1740 | 50 | LOW | -0.14 | 0.031 | 21.33 | 22.00 | 1.167 | 0.036 | / |
| | State1&3 | | Bottom Edge | 10 | 132322 | 1745 | 1 | MID | -0.04 | 0.758 | 21.34 | 22.00 | 1.164 | **0.882** | 46# |
| | State1&3 | | | 10 | 132322 | 1745 | 50 | LOW | 0.15 | 0.722 | 21.33 | 22.00 | 1.167 | 0.843 | / |
| | State1&3 | | | 10 | 132072 | 1720 | 1 | MID | -0.07 | 0.734 | 21.24 | 22.00 | 1.191 | 0.874 | / |
| | State1&3 | | | 10 | 132572 | 1770 | 1 | MID | 0.01 | 0.688 | 21.18 | 22.00 | 1.208 | 0.831 | / |
| | State1&3 | | | 10 | 132072 | 1720 | 50 | HIGH | 0.12 | 0.623 | 21.30 | 22.00 | 1.175 | 0.732 | / |
| | State1&3 | | | 10 | 132572 | 1770 | 50 | LOW | -0.06 | 0.699 | 21.28 | 22.00 | 1.180 | 0.825 | / |
| | State1&3 | | | 10 | 132572 | 1770 | 100 | LOW | 0.08 | 0.655 | 21.25 | 22.00 | 1.189 | 0.779 | / |
| Ant.3 | State5 | QPSK | Front Side | 10 | 132272 | 1740 | 1 | MID | -0.08 | 0.288 | 19.83 | 20.50 | 1.167 | 0.336 | / |
| | State5 | | | 10 | 132272 | 1740 | 50 | LOW | 0.10 | 0.266 | 19.80 | 20.50 | 1.175 | 0.313 | / |
| | State5 | | Back Side | 10 | 132272 | 1740 | 1 | MID | 0.07 | 0.323 | 19.83 | 20.50 | 1.167 | 0.377 | / |
| | State5 | | | 10 | 132272 | 1740 | 50 | LOW | 0.12 | 0.316 | 19.80 | 20.50 | 1.175 | 0.371 | / |
| | State5 | | Left Edge | 10 | 132272 | 1740 | 1 | MID | 0.16 | 0.085 | 19.83 | 20.50 | 1.167 | 0.099 | / |
| | State5 | | | 10 | 132272 | 1740 | 50 | LOW | -0.18 | 0.083 | 19.80 | 20.50 | 1.175 | 0.098 | / |
| | State5 | | Right Edge | 10 | 132272 | 1740 | 1 | MID | -0.09 | 0.053 | 19.83 | 20.50 | 1.167 | 0.062 | / |
| | State5 | | | 10 | 132272 | 1740 | 50 | LOW | 0.15 | 0.051 | 19.80 | 20.50 | 1.175 | 0.060 | / |
| | State5 | | Top Edge | 10 | 132272 | 1740 | 1 | MID | -0.17 | 0.021 | 19.83 | 20.50 | 1.167 | 0.025 | / |
| | State5 | | | 10 | 132272 | 1740 | 50 | LOW | 0.05 | 0.018 | 19.80 | 20.50 | 1.175 | 0.021 | / |
| | State5 | | Bottom Edge | 10 | 132272 | 1740 | 1 | MID | -0.11 | 0.522 | 19.83 | 20.50 | 1.167 | 0.609 | / |
| | State5 | | | 10 | 132272 | 1740 | 50 | LOW | 0.01 | 0.516 | 19.80 | 20.50 | 1.175 | 0.606 | / |
| Ant.3(ENDC) | State1&3&5 | QPSK | Front Side | 10 | 132322 | 1745 | 1 | MID | -0.13 | 0.134 | 17.44 | 17.50 | 1.014 | 0.136 | / |
| | State1&3&5 | | | 10 | 132322 | 1745 | 50 | LOW | -0.14 | 0.131 | 17.41 | 17.50 | 1.021 | 0.134 | / |
| | State1&3&5 | | Back Side | 10 | 132322 | 1745 | 1 | MID | 0.18 | 0.162 | 17.44 | 17.50 | 1.014 | 0.164 | / |
| | State1&3&5 | | | 10 | 132322 | 1745 | 50 | LOW | -0.06 | 0.157 | 17.41 | 17.50 | 1.021 | 0.160 | / |
| | State1&3&5 | | Left Edge | 10 | 132322 | 1745 | 1 | MID | 0.14 | 0.056 | 17.44 | 17.50 | 1.014 | 0.057 | / |
| | State1&3&5 | | | 10 | 132322 | 1745 | 50 | LOW | 0.07 | 0.051 | 17.41 | 17.50 | 1.021 | 0.052 | / |
| | State1&3&5 | | Right Edge | 10 | 132322 | 1745 | 1 | MID | -0.10 | 0.025 | 17.44 | 17.50 | 1.014 | 0.025 | / |
| | State1&3&5 | | | 10 | 132322 | 1745 | 50 | LOW | -0.02 | 0.022 | 17.41 | 17.50 | 1.021 | 0.022 | / |
| | State1&3&5 | | Top Edge | 10 | 132322 | 1745 | 1 | MID | -0.18 | 0.011 | 17.44 | 17.50 | 1.014 | 0.011 | / |
| | State1&3&5 | | | 10 | 132322 | 1745 | 50 | LOW | -0.01 | 0.009 | 17.41 | 17.50 | 1.021 | 0.009 | / |
| | State1&3&5 | | Bottom Edge | 10 | 132322 | 1745 | 1 | MID | -0.12 | 0.233 | 17.44 | 17.50 | 1.014 | 0.236 | / |
| | State1&3&5 | | | 10 | 132322 | 1745 | 50 | LOW | 0.19 | 0.241 | 17.41 | 17.50 | 1.021 | 0.246 | / |
| Ant.1(ENDC) | State1&3&5 | QPSK | Front Side | 10 | 132572 | 1770 | 1 | MID | -0.01 | 0.052 | 19.49 | 20.50 | 1.262 | 0.066 | / |
| | State1&3&5 | | | 10 | 132572 | 1770 | 50 | LOW | -0.04 | 0.051 | 19.57 | 20.50 | 1.239 | 0.063 | / |
| | State1&3&5 | | Back Side | 10 | 132572 | 1770 | 1 | MID | 0.00 | 0.083 | 19.49 | 20.50 | 1.262 | 0.105 | / |
| | State1&3&5 | | | 10 | 132572 | 1770 | 50 | LOW | -0.11 | 0.077 | 19.57 | 20.50 | 1.239 | 0.095 | / |
| | State1&3&5 | | Left Edge | 10 | 132572 | 1770 | 1 | MID | 0.18 | 0.034 | 19.49 | 20.50 | 1.262 | 0.043 | / |
| | State1&3&5 | | | 10 | 132572 | 1770 | 50 | LOW | 0.05 | 0.031 | 19.57 | 20.50 | 1.239 | 0.038 | / |
| | State1&3&5 | | Right Edge | 10 | 132572 | 1770 | 1 | MID | 0.16 | 0.188 | 19.49 | 20.50 | 1.262 | 0.237 | / |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | State1&3&5 | | | 10 | 132572 | 1770 | 50 | LOW | 0.17 | 0.196 | 19.57 | 20.50 | 1.239 | 0.243 | / |
| | State1&3&5 | | Top Edge | 10 | 132572 | 1770 | 1 | MID | -0.18 | 0.034 | 19.49 | 20.50 | 1.262 | 0.043 | / |
| | State1&3&5 | | | 10 | 132572 | 1770 | 50 | LOW | -0.18 | 0.031 | 19.57 | 20.50 | 1.239 | 0.038 | / |
| | State1&3&5 | | Bottom Edge | 10 | 132572 | 1770 | 1 | MID | 0.07 | 0.012 | 19.49 | 20.50 | 1.262 | 0.015 | / |
| | State1&3&5 | | | 10 | 132572 | 1770 | 50 | LOW | 0.17 | 0.009 | 19.57 | 20.50 | 1.239 | 0.011 | / |
| Note: Refer to ANNEX C for the detailed test data for each test configuration. | | | | | | | | | | | | | | | |

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Num. | RB Start | Power Drift (dB) | 10g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 10g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Specific** | | | | | | | | | | | | | | | |
| Ant.3 | State1&3 | QPSK | Bottom Edge | 0 | 132322 | 1745 | 1 | MID | -0.04 | 1.030 | 21.34 | 22.00 | 1.164 | **1.199** | 47# |
| | State1&3 | | | 0 | 132322 | 1745 | 50 | LOW | 0.09 | 1.010 | 21.33 | 22.00 | 1.167 | 1.179 | / |
| Note: Refer to ANNEX C for the detailed test data for each test configuration. | | | | | | | | | | | | | | | |

## 11.15 LTE Band 38 (20MHz Bandwidth)

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Num. | RB Start | Power Drift (dB) | 1g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head** | | | | | | | | | | | | | | | |
| Ant.4 | State2&4 | QPSK | Left Cheek | 0 | 38000 | 2595 | 1 | LOW | 0.13 | 0.181 | 15.94 | 17.50 | 1.432 | 0.259 | / |
| | State2&4 | | | 0 | 38000 | 2595 | 50 | LOW | 0.04 | 0.194 | 15.90 | 17.50 | 1.445 | 0.280 | / |
| | State2&4 | | Left Tilt | 0 | 38000 | 2595 | 1 | LOW | -0.11 | 0.255 | 15.94 | 17.50 | 1.432 | 0.365 | / |
| | State2&4 | | | 0 | 38000 | 2595 | 50 | LOW | 0.00 | 0.243 | 15.90 | 17.50 | 1.445 | 0.351 | / |
| | State2&4 | | Right Cheek | 0 | 38000 | 2595 | 1 | LOW | 0.02 | 0.289 | 15.94 | 17.50 | 1.432 | 0.414 | / |
| | State2&4 | | | 0 | 38000 | 2595 | 50 | LOW | 0.12 | 0.286 | 15.90 | 17.50 | 1.445 | 0.413 | / |
| | State2&4 | | Right Tilt | 0 | 38000 | 2595 | 1 | LOW | -0.04 | 0.396 | 15.94 | 17.50 | 1.432 | **0.567** | 48# |
| | State2&4 | | | 0 | 38000 | 2595 | 50 | LOW | 0.12 | 0.388 | 15.90 | 17.50 | 1.445 | 0.561 | / |
| Ant.4 | State6 | QPSK | Left Cheek | 0 | 38000 | 2595 | 1 | LOW | 0.18 | 0.121 | 14.93 | 16.50 | 1.435 | 0.174 | / |
| | State6 | | | 0 | 38000 | 2595 | 50 | LOW | 0.04 | 0.122 | 14.90 | 16.50 | 1.445 | 0.176 | / |
| | State6 | | Left Tilt | 0 | 38000 | 2595 | 1 | LOW | 0.00 | 0.174 | 14.93 | 16.50 | 1.435 | 0.250 | / |
| | State6 | | | 0 | 38000 | 2595 | 50 | LOW | 0.10 | 0.168 | 14.90 | 16.50 | 1.445 | 0.243 | / |
| | State6 | | Right Cheek | 0 | 38000 | 2595 | 1 | LOW | 0.10 | 0.193 | 14.93 | 16.50 | 1.435 | 0.277 | / |
| | State6 | | | 0 | 38000 | 2595 | 50 | LOW | 0.00 | 0.186 | 14.90 | 16.50 | 1.445 | 0.269 | / |
| | State6 | | Right Tilt | 0 | 38000 | 2595 | 1 | LOW | -0.01 | 0.233 | 14.93 | 16.50 | 1.435 | 0.334 | / |
| | State6 | | | 0 | 38000 | 2595 | 50 | LOW | 0.08 | 0.245 | 14.90 | 16.50 | 1.445 | 0.354 | / |
| Ant.3 | State2&4&6 | QPSK | Left Cheek | 0 | 38150 | 2610 | 1 | LOW | 0.12 | 0.119 | 23.76 | 24.00 | 1.057 | 0.126 | / |
| | State2&4&6 | | | 0 | 38000 | 2595 | 50 | MID | -0.06 | 0.125 | 22.65 | 23.00 | 1.084 | 0.136 | / |
| | State2&4&6 | | Left Tilt | 0 | 38150 | 2610 | 1 | LOW | -0.02 | 0.050 | 23.76 | 24.00 | 1.057 | 0.053 | / |
| | State2&4&6 | | | 0 | 38000 | 2595 | 50 | MID | 0.17 | 0.050 | 22.65 | 23.00 | 1.084 | 0.054 | / |
| | State2&4&6 | | Right Cheek | 0 | 38150 | 2610 | 1 | LOW | 0.04 | 0.092 | 23.76 | 24.00 | 1.057 | 0.097 | / |
| | State2&4&6 | | | 0 | 38000 | 2595 | 50 | MID | -0.06 | 0.098 | 22.65 | 23.00 | 1.084 | 0.106 | / |
| | State2&4&6 | | Right Tilt | 0 | 38150 | 2610 | 1 | LOW | -0.01 | 0.041 | 23.76 | 24.00 | 1.057 | 0.043 | / |
| | State2&4&6 | | | 0 | 38000 | 2595 | 50 | MID | 0.15 | 0.049 | 22.65 | 23.00 | 1.084 | 0.053 | / |
| **Body-worn** | | | | | | | | | | | | | | | |
| Ant.4 | State1&3&5 | QPSK | Front Side | 15 | 38000 | 2595 | 1 | MID | -0.04 | 0.101 | 20.39 | 22.00 | 1.449 | 0.146 | / |
| | State1&3&5 | | | 15 | 38000 | 2595 | 50 | MID | 0.01 | 0.098 | 20.31 | 22.00 | 1.476 | 0.145 | / |
| | State1&3&5 | | Back Side | 15 | 38000 | 2595 | 1 | MID | 0.04 | 0.112 | 20.39 | 22.00 | 1.449 | 0.162 | / |
| | State1&3&5 | | | 15 | 38000 | 2595 | 50 | MID | 0.12 | 0.109 | 20.31 | 22.00 | 1.476 | 0.161 | / |
| Ant.3 | State1&3&5 | QPSK | Front Side | 15 | 38150 | 2610 | 1 | LOW | 0.15 | 0.181 | 21.54 | 22.00 | 1.112 | 0.201 | / |
| | State1&3&5 | | | 15 | 38000 | 2595 | 50 | MID | -0.16 | 0.177 | 21.37 | 22.00 | 1.156 | 0.205 | / |
| | State1&3&5 | | Back Side | 15 | 38150 | 2610 | 1 | LOW | 0.01 | 0.224 | 21.54 | 22.00 | 1.112 | **0.249** | 49# |
| | State1&3&5 | | | 15 | 38000 | 2595 | 50 | MID | 0.09 | 0.208 | 21.37 | 22.00 | 1.156 | 0.240 | / |
| **Hotspot** | | | | | | | | | | | | | | | |
| Ant.4 | State1&3&5 | QPSK | Front Side | 10 | 38000 | 2595 | 1 | MID | -0.14 | 0.167 | 20.39 | 22.00 | 1.449 | 0.242 | / |
| | State1&3&5 | | | 10 | 38000 | 2595 | 50 | MID | 0.06 | 0.162 | 20.31 | 22.00 | 1.476 | 0.239 | / |
| | State1&3&5 | | Back Side | 10 | 38000 | 2595 | 1 | MID | 0.08 | 0.223 | 20.39 | 22.00 | 1.449 | 0.323 | / |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | State1&3&5 | | | 10 | 38000 | 2595 | 50 | MID | 0.07 | 0.219 | 20.31 | 22.00 | 1.476 | 0.323 | / |
| | State1&3&5 | | Left Edge | 10 | 38000 | 2595 | 1 | MID | 0.02 | 0.035 | 20.39 | 22.00 | 1.449 | 0.051 | / |
| | State1&3&5 | | | 10 | 38000 | 2595 | 50 | MID | 0.08 | 0.031 | 20.31 | 22.00 | 1.476 | 0.046 | / |
| | State1&3&5 | | Right Edge | 10 | 38000 | 2595 | 1 | MID | 0.06 | 0.071 | 20.39 | 22.00 | 1.449 | 0.103 | / |
| | State1&3&5 | | | 10 | 38000 | 2595 | 50 | MID | 0.11 | 0.066 | 20.31 | 22.00 | 1.476 | 0.097 | / |
| | State1&3&5 | | Top Edge | 10 | 38000 | 2595 | 1 | MID | -0.06 | 0.466 | 20.39 | 22.00 | 1.449 | 0.675 | / |
| | State1&3&5 | | | 10 | 38000 | 2595 | 50 | MID | -0.19 | 0.458 | 20.31 | 22.00 | 1.476 | 0.676 | / |
| | State1&3&5 | | Bottom Edge | 10 | 38000 | 2595 | 1 | MID | -0.16 | 0.026 | 20.39 | 22.00 | 1.449 | 0.038 | / |
| | State1&3&5 | | | 10 | 38000 | 2595 | 50 | MID | -0.16 | 0.023 | 20.31 | 22.00 | 1.476 | 0.034 | / |
| Ant.3 | State1&3&5 | QPSK | Front Side | 10 | 38150 | 2610 | 1 | LOW | -0.17 | 0.322 | 21.54 | 22.00 | 1.112 | 0.358 | / |
| | State1&3&5 | | | 10 | 38000 | 2595 | 50 | MID | -0.10 | 0.306 | 21.37 | 22.00 | 1.156 | 0.354 | / |
| | State1&3&5 | | Back Side | 10 | 38150 | 2610 | 1 | LOW | -0.11 | 0.388 | 21.54 | 22.00 | 1.112 | 0.431 | / |
| | State1&3&5 | | | 10 | 38000 | 2595 | 50 | MID | 0.19 | 0.365 | 21.37 | 22.00 | 1.156 | 0.422 | / |
| | State1&3&5 | | Left Edge | 10 | 38150 | 2610 | 1 | LOW | 0.19 | 0.093 | 21.54 | 22.00 | 1.112 | 0.103 | / |
| | State1&3&5 | | | 10 | 38000 | 2595 | 50 | MID | -0.02 | 0.084 | 21.37 | 22.00 | 1.156 | 0.097 | / |
| | State1&3&5 | | Right Edge | 10 | 38150 | 2610 | 1 | LOW | 0.18 | 0.082 | 21.54 | 22.00 | 1.112 | 0.091 | / |
| | State1&3&5 | | | 10 | 38000 | 2595 | 50 | MID | 0.02 | 0.075 | 21.37 | 22.00 | 1.156 | 0.087 | / |
| | State1&3&5 | | Top Edge | 10 | 38150 | 2610 | 1 | LOW | 0.06 | 0.033 | 21.54 | 22.00 | 1.112 | 0.037 | / |
| | State1&3&5 | | | 10 | 38000 | 2595 | 50 | MID | -0.16 | 0.031 | 21.37 | 22.00 | 1.156 | 0.036 | / |
| | State1&3&5 | | Bottom Edge | 10 | 38150 | 2610 | 1 | LOW | 0.01 | 0.616 | 21.54 | 22.00 | 1.112 | **0.685** | 50# |
| | State1&3&5 | | | 10 | 38000 | 2595 | 50 | MID | -0.07 | 0.588 | 21.37 | 22.00 | 1.156 | 0.680 | / |

Note: Refer to ANNEX C for the detailed test data for each test configuration.

## 11.16 LTE Band 41 (20MHz Bandwidth)

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Num. | RB Start | Power Drift (dB) | 1g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head** | | | | | | | | | | | | | | | |
| Ant.4 | State2&4 | QPSK | Left Cheek | 0 | 40620 | 2593 | 1 | MID | -0.19 | 0.356 | 16.13 | 17.50 | 1.371 | 0.488 | / |
| | State2&4 | | | 0 | 40620 | 2593 | 50 | LOW | 0.18 | 0.351 | 16.15 | 17.50 | 1.365 | 0.479 | / |
| | State2&4 | | Left Tilt | 0 | 40620 | 2593 | 1 | MID | 0.11 | 0.433 | 16.13 | 17.50 | 1.371 | 0.594 | / |
| | State2&4 | | | 0 | 40620 | 2593 | 50 | LOW | -0.01 | 0.425 | 16.15 | 17.50 | 1.365 | 0.580 | / |
| | State2&4 | | Right Cheek | 0 | 40620 | 2593 | 1 | MID | 0.08 | 0.441 | 16.13 | 17.50 | 1.371 | 0.605 | / |
| | State2&4 | | | 0 | 40620 | 2593 | 50 | LOW | 0.06 | 0.452 | 16.15 | 17.50 | 1.365 | 0.617 | / |
| | State2&4 | | Right Tilt | 0 | 40620 | 2593 | 1 | MID | 0.01 | 0.493 | 16.13 | 17.50 | 1.371 | **0.676** | 51# |
| | State2&4 | | | 0 | 40620 | 2593 | 50 | LOW | -0.11 | 0.482 | 16.15 | 17.50 | 1.365 | 0.658 | / |
| Ant.4 | State6 | QPSK | Left Cheek | 0 | 40620 | 2593 | 1 | MID | -0.18 | 0.271 | 15.23 | 16.50 | 1.340 | 0.363 | / |
| | State6 | | | 0 | 40620 | 2593 | 50 | LOW | -0.17 | 0.266 | 15.27 | 16.50 | 1.327 | 0.353 | / |
| | State6 | | Left Tilt | 0 | 40620 | 2593 | 1 | MID | -0.19 | 0.335 | 15.23 | 16.50 | 1.340 | 0.449 | / |
| | State6 | | | 0 | 40620 | 2593 | 50 | LOW | 0.01 | 0.326 | 15.27 | 16.50 | 1.327 | 0.433 | / |
| | State6 | | Right Cheek | 0 | 40620 | 2593 | 1 | MID | 0.04 | 0.343 | 15.23 | 16.50 | 1.340 | 0.460 | / |
| | State6 | | | 0 | 40620 | 2593 | 50 | LOW | 0.03 | 0.341 | 15.27 | 16.50 | 1.327 | 0.453 | / |
| | State6 | | Right Tilt | 0 | 40620 | 2593 | 1 | MID | 0.09 | 0.385 | 15.23 | 16.50 | 1.340 | 0.516 | / |
| | State6 | | | 0 | 40620 | 2593 | 50 | LOW | -0.12 | 0.371 | 15.27 | 16.50 | 1.327 | 0.492 | / |
| Ant.3 | State2&4&6 | QPSK | Left Cheek | 0 | 40620 | 2593 | 1 | LOW | -0.02 | 0.109 | 24.02 | 24.50 | 1.117 | 0.122 | / |
| | State2&4&6 | | | 0 | 40620 | 2593 | 50 | LOW | -0.10 | 0.106 | 22.88 | 23.50 | 1.153 | 0.122 | / |
| | State2&4&6 | | Left Tilt | 0 | 40620 | 2593 | 1 | LOW | -0.09 | 0.049 | 24.02 | 24.50 | 1.117 | 0.055 | / |
| | State2&4&6 | | | 0 | 40620 | 2593 | 50 | LOW | -0.10 | 0.048 | 22.88 | 23.50 | 1.153 | 0.055 | / |
| | State2&4&6 | | Right Cheek | 0 | 40620 | 2593 | 1 | LOW | 0.02 | 0.084 | 24.02 | 24.50 | 1.117 | 0.094 | / |
| | State2&4&6 | | | 0 | 40620 | 2593 | 50 | LOW | 0.14 | 0.081 | 22.88 | 23.50 | 1.153 | 0.093 | / |
| | State2&4&6 | | Right Tilt | 0 | 40620 | 2593 | 1 | LOW | 0.02 | 0.039 | 24.02 | 24.50 | 1.117 | 0.044 | / |
| | State2&4&6 | | | 0 | 40620 | 2593 | 50 | LOW | -0.04 | 0.044 | 22.88 | 23.50 | 1.153 | 0.051 | / |
| **Body-worn** | | | | | | | | | | | | | | | |
| Ant.4 | State1 | QPSK | Front Side | 15 | 40620 | 2593 | 1 | MID | 0.11 | 0.073 | 19.54 | 21.00 | 1.400 | 0.102 | / |
| | State1 | | | 15 | 40620 | 2593 | 50 | MID | 0.19 | 0.068 | 19.58 | 21.00 | 1.387 | 0.094 | / |
| | State1 | | Back Side | 15 | 40620 | 2593 | 1 | MID | 0.12 | 0.085 | 19.54 | 21.00 | 1.400 | 0.119 | / |
| | State1 | | | 15 | 40620 | 2593 | 50 | MID | -0.08 | 0.081 | 19.58 | 21.00 | 1.387 | 0.112 | / |
| Ant.4 | State3&5 | QPSK | Front Side | 15 | 40620 | 2593 | 1 | MID | -0.08 | 0.056 | 18.06 | 19.50 | 1.393 | 0.078 | / |
| | State3&5 | | | 15 | 40620 | 2593 | 50 | MID | -0.06 | 0.051 | 18.19 | 19.50 | 1.352 | 0.069 | / |
| | State3&5 | | Back Side | 15 | 40620 | 2593 | 1 | MID | -0.11 | 0.063 | 18.06 | 19.50 | 1.393 | 0.088 | / |
| | State3&5 | | | 15 | 40620 | 2593 | 50 | MID | -0.08 | 0.062 | 18.19 | 19.50 | 1.352 | 0.084 | / |
| Ant.3 | State1&3 | QPSK | Front Side | 15 | 40620 | 2593 | 1 | LOW | -0.12 | 0.115 | 20.14 | 21.00 | 1.219 | 0.140 | / |
| | State1&3 | | | 15 | 40620 | 2593 | 50 | LOW | 0.08 | 0.113 | 20.22 | 21.00 | 1.197 | 0.135 | / |
| | State1&3 | | Back Side | 15 | 40620 | 2593 | 1 | LOW | 0.00 | 0.137 | 20.14 | 21.00 | 1.219 | **0.167** | 52# |
| | State1&3 | | | 15 | 40620 | 2593 | 50 | LOW | -0.11 | 0.131 | 20.22 | 21.00 | 1.197 | 0.157 | / |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ant.3 | State5 | QPSK | Front Side | 15 | 40620 | 2593 | 1 | LOW | 0.15 | 0.083 | 18.87 | 19.50 | 1.156 | 0.096 | / |
| | State5 | | | 15 | 40620 | 2593 | 50 | LOW | 0.12 | 0.081 | 18.77 | 19.50 | 1.183 | 0.096 | / |
| | State5 | | Back Side | 15 | 40620 | 2593 | 1 | LOW | 0.05 | 0.106 | 18.87 | 19.50 | 1.156 | 0.123 | / |
| | State5 | | | 15 | 40620 | 2593 | 50 | LOW | 0.06 | 0.099 | 18.77 | 19.50 | 1.183 | 0.117 | / |
| **Hotspot** | | | | | | | | | | | | | | | |
| Ant.4 | State3&5 | QPSK | Front Side | 10 | 40620 | 2593 | 1 | 2593 | -0.07 | 0.096 | 18.06 | 19.50 | 1.393 | 0.134 | / |
| | State3&5 | | | 10 | 40620 | 2593 | 50 | 2593 | 0.16 | 0.091 | 18.19 | 19.50 | 1.352 | 0.123 | / |
| | State3&5 | | Back Side | 10 | 40620 | 2593 | 1 | 2593 | -0.05 | 0.133 | 18.06 | 19.50 | 1.393 | 0.185 | / |
| | State3&5 | | | 10 | 40620 | 2593 | 50 | 2593 | 0.15 | 0.128 | 18.19 | 19.50 | 1.352 | 0.173 | / |
| | State3&5 | | Left Edge | 10 | 40620 | 2593 | 1 | 2593 | -0.11 | 0.052 | 18.06 | 19.50 | 1.393 | 0.072 | / |
| | State3&5 | | | 10 | 40620 | 2593 | 50 | 2593 | 0.10 | 0.045 | 18.19 | 19.50 | 1.352 | 0.061 | / |
| | State3&5 | | Right Edge | 10 | 40620 | 2593 | 1 | 2593 | 0.19 | 0.033 | 18.06 | 19.50 | 1.393 | 0.046 | / |
| | State3&5 | | | 10 | 40620 | 2593 | 50 | 2593 | 0.11 | 0.031 | 18.19 | 19.50 | 1.352 | 0.042 | / |
| | State3&5 | | Top Edge | 10 | 40620 | 2593 | 1 | 2593 | -0.12 | 0.266 | 18.06 | 19.50 | 1.393 | 0.371 | / |
| | State3&5 | | | 10 | 40620 | 2593 | 50 | 2593 | 0.07 | 0.261 | 18.19 | 19.50 | 1.352 | 0.353 | / |
| | State3&5 | | Bottom Edge | 10 | 40620 | 2593 | 1 | 2593 | -0.09 | 0.052 | 18.06 | 19.50 | 1.393 | 0.072 | / |
| | State3&5 | | | 10 | 40620 | 2593 | 50 | 2593 | 0.11 | 0.048 | 18.19 | 19.50 | 1.352 | 0.065 | / |
| Ant.3 | State1&3 | QPSK | Front Side | 10 | 40620 | 2593 | 1 | LOW | -0.02 | 0.223 | 20.14 | 21.00 | 1.219 | 0.272 | / |
| | State1&3 | | | 10 | 40620 | 2593 | 50 | LOW | 0.04 | 0.216 | 20.22 | 21.00 | 1.197 | 0.259 | / |
| | State1&3 | | Back Side | 10 | 40620 | 2593 | 1 | LOW | -0.19 | 0.255 | 20.14 | 21.00 | 1.219 | 0.311 | / |
| | State1&3 | | | 10 | 40620 | 2593 | 50 | LOW | 0.08 | 0.248 | 20.22 | 21.00 | 1.197 | 0.297 | / |
| | State1&3 | | Left Edge | 10 | 40620 | 2593 | 1 | LOW | -0.06 | 0.071 | 20.14 | 21.00 | 1.219 | 0.087 | / |
| | State1&3 | | | 10 | 40620 | 2593 | 50 | LOW | 0.07 | 0.076 | 20.22 | 21.00 | 1.197 | 0.091 | / |
| | State1&3 | | Right Edge | 10 | 40620 | 2593 | 1 | LOW | 0.06 | 0.053 | 20.14 | 21.00 | 1.219 | 0.065 | / |
| | State1&3 | | | 10 | 40620 | 2593 | 50 | LOW | 0.13 | 0.051 | 20.22 | 21.00 | 1.197 | 0.061 | / |
| | State1&3 | | Top Edge | 10 | 40620 | 2593 | 1 | LOW | -0.13 | 0.022 | 20.14 | 21.00 | 1.219 | 0.027 | / |
| | State1&3 | | | 10 | 40620 | 2593 | 50 | LOW | -0.06 | 0.026 | 20.22 | 21.00 | 1.197 | 0.031 | / |
| | State1&3 | | Bottom Edge | 10 | 40620 | 2593 | 1 | LOW | 0.02 | 0.499 | 20.14 | 21.00 | 1.219 | **0.608** | 53# |
| | State1&3 | | | 10 | 40620 | 2593 | 50 | LOW | -0.04 | 0.487 | 20.22 | 21.00 | 1.197 | 0.583 | / |
| Ant.3 | State5 | QPSK | Front Side | 10 | 40620 | 2593 | 1 | LOW | 0.03 | 0.152 | 18.87 | 19.50 | 1.156 | 0.176 | / |
| | State5 | | | 10 | 40620 | 2593 | 50 | LOW | 0.09 | 0.145 | 18.77 | 19.50 | 1.183 | 0.172 | / |
| | State5 | | Back Side | 10 | 40620 | 2593 | 1 | LOW | -0.08 | 0.188 | 18.87 | 19.50 | 1.156 | 0.217 | / |
| | State5 | | | 10 | 40620 | 2593 | 50 | LOW | -0.08 | 0.174 | 18.77 | 19.50 | 1.183 | 0.206 | / |
| | State5 | | Left Edge | 10 | 40620 | 2593 | 1 | LOW | -0.09 | 0.056 | 18.87 | 19.50 | 1.156 | 0.065 | / |
| | State5 | | | 10 | 40620 | 2593 | 50 | LOW | 0.15 | 0.061 | 18.77 | 19.50 | 1.183 | 0.072 | / |
| | State5 | | Right Edge | 10 | 40620 | 2593 | 1 | LOW | 0.15 | 0.034 | 18.87 | 19.50 | 1.156 | 0.039 | / |
| | State5 | | | 10 | 40620 | 2593 | 50 | LOW | 0.19 | 0.038 | 18.77 | 19.50 | 1.183 | 0.045 | / |
| | State5 | | Top Edge | 10 | 40620 | 2593 | 1 | LOW | -0.10 | 0.016 | 18.87 | 19.50 | 1.156 | 0.018 | / |
| | State5 | | | 10 | 40620 | 2593 | 50 | LOW | 0.15 | 0.017 | 18.77 | 19.50 | 1.183 | 0.020 | / |
| | State5 | | Bottom Edge | 10 | 40620 | 2593 | 1 | LOW | -0.02 | 0.311 | 18.87 | 19.50 | 1.156 | 0.360 | / |
| | State5 | | | 10 | 40620 | 2593 | 50 | LOW | 0.04 | 0.306 | 18.77 | 19.50 | 1.183 | 0.362 | / |

Note: Refer to ANNEX C for the detailed test data for each test configuration.

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Num. | RB Start | Power Drift (dB) | 10g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 10g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Specific** | | | | | | | | | | | | | | | |
| Ant.3 | State1&3 | QPSK | Bottom Edge | 0 | 40620 | 2593 | 1 | LOW | -0.02 | 1.240 | 20.14 | 21.00 | 1.219 | **1.512** | 54# |
| | State1&3 | | | 0 | 40620 | 2593 | 50 | LOW | 0.13 | 1.210 | 20.22 | 21.00 | 1.197 | 1.448 | / |
| Note: Refer to ANNEX C for the detailed test data for each test configuration. | | | | | | | | | | | | | | | |

## 11.17 5G n5 (20MHz Bandwidth)

| Antenna | Power Reduction | Mode | Information | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB UL | RB Num. | RB Start | Power Drift (dB) | 1g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head** | | | | | | | | | | | | | | | | | |
| Ant.1 | State2&4&6 | DFT-s-OFDM BPSK | SA | Left Cheek | 0 | 167300 | 836.5 | 106 | 1 | 1 | -0.15 | 0.131 | 22.51 | 24.20 | 1.476 | 0.193 | / |
| | State2&4&6 | | | | 0 | 167300 | 836.5 | 106 | 50 | 0 | 0.02 | 0.125 | 22.89 | 24.20 | 1.352 | 0.169 | / |
| | State2&4&6 | | | Left Tilt | 0 | 167300 | 836.5 | 106 | 1 | 1 | -0.13 | 0.071 | 22.51 | 24.20 | 1.476 | 0.105 | / |
| | State2&4&6 | | | | 0 | 167300 | 836.5 | 106 | 50 | 0 | -0.15 | 0.068 | 22.89 | 24.20 | 1.352 | 0.092 | / |
| | State2&4&6 | | | Right Cheek | 0 | 167300 | 836.5 | 106 | 1 | 1 | 0.02 | 0.223 | 22.51 | 24.20 | 1.476 | **0.329** | 55# |
| | State2&4&6 | | | | 0 | 167300 | 836.5 | 106 | 50 | 0 | 0.17 | 0.216 | 22.89 | 24.20 | 1.352 | 0.292 | / |
| | State2&4&6 | | | Right Tilt | 0 | 167300 | 836.5 | 106 | 1 | 1 | 0.15 | 0.142 | 22.51 | 24.20 | 1.476 | 0.210 | / |
| | State2&4&6 | | | | 0 | 167300 | 836.5 | 106 | 50 | 0 | 0.05 | 0.135 | 22.89 | 24.20 | 1.352 | 0.183 | / |
| Ant.1 | State2&4&6 | DFT-s-OFDM BPSK | NSA | Left Cheek | 0 | 167300 | 836.5 | 106 | 1 | 1 | -0.09 | 0.121 | 22.51 | 23.70 | 1.315 | 0.159 | / |
| | State2&4&6 | | | | 0 | 167300 | 836.5 | 106 | 50 | 0 | 0.01 | 0.115 | 22.89 | 23.70 | 1.205 | 0.139 | / |
| | State2&4&6 | | | Left Tilt | 0 | 167300 | 836.5 | 106 | 1 | 1 | -0.07 | 0.081 | 22.51 | 23.70 | 1.315 | 0.107 | / |
| | State2&4&6 | | | | 0 | 167300 | 836.5 | 106 | 50 | 0 | 0.18 | 0.058 | 22.89 | 23.70 | 1.205 | 0.070 | / |
| | State2&4&6 | | | Right Cheek | 0 | 167300 | 836.5 | 106 | 1 | 1 | -0.09 | 0.213 | 22.51 | 23.70 | 1.315 | 0.280 | / |
| | State2&4&6 | | | | 0 | 167300 | 836.5 | 106 | 50 | 0 | 0.11 | 0.226 | 22.89 | 23.70 | 1.205 | 0.272 | / |
| | State2&4&6 | | | Right Tilt | 0 | 167300 | 836.5 | 106 | 1 | 1 | -0.19 | 0.132 | 22.51 | 23.70 | 1.315 | 0.174 | / |
| | State2&4&6 | | | | 0 | 167300 | 836.5 | 106 | 50 | 0 | -0.15 | 0.145 | 22.89 | 23.70 | 1.205 | 0.175 | / |
| Ant.0 | State2&4&6 | DFT-s-OFDM BPSK | SA&NSA | Left Cheek | 0 | 167300 | 836.5 | 106 | 1 | 1 | 0.01 | 0.054 | 22.29 | 24.20 | 1.552 | 0.084 | / |
| | State2&4&6 | | | | 0 | 167300 | 836.5 | 106 | 50 | 0 | -0.01 | 0.060 | 22.33 | 24.20 | 1.538 | 0.092 | / |
| | State2&4&6 | | | Left Tilt | 0 | 167300 | 836.5 | 106 | 1 | 1 | 0.03 | 0.022 | 22.29 | 24.20 | 1.552 | 0.034 | / |
| | State2&4&6 | | | | 0 | 167300 | 836.5 | 106 | 50 | 0 | 0.13 | 0.021 | 22.33 | 24.20 | 1.538 | 0.032 | / |
| | State2&4&6 | | | Right Cheek | 0 | 167300 | 836.5 | 106 | 1 | 1 | 0.14 | 0.043 | 22.29 | 24.20 | 1.552 | 0.067 | / |
| | State2&4&6 | | | | 0 | 167300 | 836.5 | 106 | 50 | 0 | -0.18 | 0.041 | 22.33 | 24.20 | 1.538 | 0.063 | / |
| | State2&4&6 | | | Right Tilt | 0 | 167300 | 836.5 | 106 | 1 | 1 | -0.08 | 0.032 | 22.29 | 24.20 | 1.552 | 0.050 | / |
| | State2&4&6 | | | | 0 | 167300 | 836.5 | 106 | 50 | 0 | -0.04 | 0.028 | 22.33 | 24.20 | 1.538 | 0.043 | / |
| **Body-worn** | | | | | | | | | | | | | | | | | |
| Ant.1 | State1&3&5 | DFT-s-OFDM BPSK | SA&NSA | Front Side | 15 | 167300 | 836.5 | 106 | 1 | 1 | -0.12 | 0.026 | 22.51 | 24.20 | 1.476 | 0.038 | / |
| | State1&3&5 | | | | 15 | 167300 | 836.5 | 106 | 50 | 0 | 0.09 | 0.031 | 22.89 | 24.20 | 1.352 | 0.042 | / |
| | State1&3&5 | | | Back Side | 15 | 167300 | 836.5 | 106 | 1 | 1 | -0.07 | 0.051 | 22.51 | 24.20 | 1.476 | 0.075 | / |
| | State1&3&5 | | | | 15 | 167300 | 836.5 | 106 | 50 | 0 | -0.19 | 0.048 | 22.89 | 24.20 | 1.352 | 0.065 | / |
| Ant.0 | State1&3&5 | DFT-s-OFDM BPSK | SA | Front Side | 15 | 167300 | 836.5 | 106 | 1 | 1 | -0.05 | 0.044 | 22.29 | 24.20 | 1.552 | 0.068 | / |
| | State1&3&5 | | | | 15 | 167300 | 836.5 | 106 | 50 | 0 | -0.05 | 0.049 | 22.33 | 24.20 | 1.538 | 0.075 | / |
| | State1&3&5 | | | Back Side | 15 | 167300 | 836.5 | 106 | 1 | 1 | 0.00 | 0.066 | 22.29 | 24.20 | 1.552 | **0.102** | 56# |
| | State1&3&5 | | | | 15 | 167300 | 836.5 | 106 | 50 | 0 | 0.18 | 0.061 | 22.33 | 24.20 | 1.538 | 0.094 | / |
| Ant.0 | State5 | DFT-s-OFDM BPSK | NSA | Front Side | 15 | 167300 | 836.5 | 106 | 1 | 1 | 0.13 | 0.028 | 22.29 | 23.20 | 1.233 | 0.035 | / |
| | State5 | | | | 15 | 167300 | 836.5 | 106 | 50 | 0 | 0.03 | 0.026 | 22.33 | 23.20 | 1.222 | 0.032 | / |
| | State5 | | | Back Side | 15 | 167300 | 836.5 | 106 | 1 | 1 | 0.15 | 0.048 | 22.29 | 23.20 | 1.233 | 0.059 | / |
| | State5 | | | | 15 | 167300 | 836.5 | 106 | 50 | 0 | -0.09 | 0.044 | 22.33 | 23.20 | 1.222 | 0.054 | / |

| Hotspot | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ant.1 | State1&3&5 | DFT-s-OFDM BPSK | SA&NSA | Front Side | 10 | 167300 | 836.5 | 106 | 1 | 1 | -0.11 | 0.061 | 22.51 | 24.20 | 1.476 | 0.090 | / |
| | State1&3&5 | | | | 10 | 167300 | 836.5 | 106 | 50 | 0 | 0.06 | 0.058 | 22.89 | 24.20 | 1.352 | 0.078 | / |
| | State1&3&5 | | | Back Side | 10 | 167300 | 836.5 | 106 | 1 | 1 | -0.08 | 0.082 | 22.51 | 24.20 | 1.476 | 0.121 | / |
| | State1&3&5 | | | | 10 | 167300 | 836.5 | 106 | 50 | 0 | 0.12 | 0.081 | 22.89 | 24.20 | 1.352 | 0.110 | / |
| | State1&3&5 | | | Left Edge | 10 | 167300 | 836.5 | 106 | 1 | 1 | 0.07 | 0.033 | 22.51 | 24.20 | 1.476 | 0.049 | / |
| | State1&3&5 | | | | 10 | 167300 | 836.5 | 106 | 50 | 0 | -0.12 | 0.031 | 22.89 | 24.20 | 1.352 | 0.042 | / |
| | State1&3&5 | | | Right Edge | 10 | 167300 | 836.5 | 106 | 1 | 1 | -0.01 | 0.097 | 22.51 | 24.20 | 1.476 | 0.143 | / |
| | State1&3&5 | | | | 10 | 167300 | 836.5 | 106 | 50 | 0 | 0.18 | 0.095 | 22.89 | 24.20 | 1.352 | 0.128 | / |
| | State1&3&5 | | | Top Edge | 10 | 167300 | 836.5 | 106 | 1 | 1 | 0.07 | 0.022 | 22.51 | 24.20 | 1.476 | 0.032 | / |
| | State1&3&5 | | | | 10 | 167300 | 836.5 | 106 | 50 | 0 | 0.02 | 0.021 | 22.89 | 24.20 | 1.352 | 0.028 | / |
| | State1&3&5 | | | Bottom Edge | 10 | 167300 | 836.5 | 106 | 1 | 1 | 0.05 | 0.016 | 22.51 | 24.20 | 1.476 | 0.024 | / |
| | State1&3&5 | | | | 10 | 167300 | 836.5 | 106 | 50 | 0 | -0.16 | 0.013 | 22.89 | 24.20 | 1.352 | 0.018 | / |
| Ant.0 | State1&3&5 | DFT-s-OFDM BPSK | SA&NSA | Front Side | 10 | 167300 | 836.5 | 106 | 1 | 1 | -0.02 | 0.071 | 22.29 | 24.20 | 1.552 | 0.110 | / |
| | State1&3&5 | | | | 10 | 167300 | 836.5 | 106 | 50 | 0 | 0.00 | 0.068 | 22.33 | 24.20 | 1.538 | 0.105 | / |
| | State1&3&5 | | | Back Side | 10 | 167300 | 836.5 | 106 | 1 | 1 | -0.03 | 0.126 | 22.29 | 24.20 | 1.552 | **0.196** | 57# |
| | State1&3&5 | | | | 10 | 167300 | 836.5 | 106 | 50 | 0 | -0.13 | 0.121 | 22.33 | 24.20 | 1.538 | 0.186 | / |
| | State1&3&5 | | | Left Edge | 10 | 167300 | 836.5 | 106 | 1 | 1 | -0.11 | 0.003 | 22.29 | 24.20 | 1.552 | 0.005 | / |
| | State1&3&5 | | | | 10 | 167300 | 836.5 | 106 | 50 | 0 | 0.17 | 0.002 | 22.33 | 24.20 | 1.538 | 0.003 | / |
| | State1&3&5 | | | Right Edge | 10 | 167300 | 836.5 | 106 | 1 | 1 | -0.05 | 0.062 | 22.29 | 24.20 | 1.552 | 0.096 | / |
| | State1&3&5 | | | | 10 | 167300 | 836.5 | 106 | 50 | 0 | -0.12 | 0.061 | 22.33 | 24.20 | 1.538 | 0.094 | / |
| | State1&3&5 | | | Top Edge | 10 | 167300 | 836.5 | 106 | 1 | 1 | 0.02 | 0.003 | 22.29 | 24.20 | 1.552 | 0.005 | / |
| | State1&3&5 | | | | 10 | 167300 | 836.5 | 106 | 50 | 0 | 0.09 | 0.004 | 22.33 | 24.20 | 1.538 | 0.006 | / |
| | State1&3&5 | | | Bottom Edge | 10 | 167300 | 836.5 | 106 | 1 | 1 | -0.16 | 0.092 | 22.29 | 24.20 | 1.552 | 0.143 | / |
| | State1&3&5 | | | | 10 | 167300 | 836.5 | 106 | 50 | 0 | -0.01 | 0.089 | 22.33 | 24.20 | 1.538 | 0.137 | / |
| Ant.0 | State5 | DFT-s-OFDMBPSK | NSA | Front Side | 10 | 167300 | 836.5 | 106 | 1 | 1 | 0.12 | 0.052 | 22.29 | 23.20 | 1.233 | 0.064 | / |
| | State5 | | | | 10 | 167300 | 836.5 | 106 | 50 | 0 | 0.02 | 0.051 | 22.33 | 23.20 | 1.222 | 0.062 | / |
| | State5 | | | Back Side | 10 | 167300 | 836.5 | 106 | 1 | 1 | 0.18 | 0.106 | 22.29 | 23.20 | 1.233 | 0.131 | / |
| | State5 | | | | 10 | 167300 | 836.5 | 106 | 50 | 0 | 0.10 | 0.101 | 22.33 | 23.20 | 1.222 | 0.123 | / |
| | State5 | | | Left Edge | 10 | 167300 | 836.5 | 106 | 1 | 1 | 0.13 | 0.003 | 22.29 | 23.20 | 1.233 | 0.004 | / |
| | State5 | | | | 10 | 167300 | 836.5 | 106 | 50 | 0 | 0.05 | 0.003 | 22.33 | 23.20 | 1.222 | 0.004 | / |
| | State5 | | | Right Edge | 10 | 167300 | 836.5 | 106 | 1 | 1 | -0.08 | 0.045 | 22.29 | 23.20 | 1.233 | 0.055 | / |
| | State5 | | | | 10 | 167300 | 836.5 | 106 | 50 | 0 | 0.06 | 0.042 | 22.33 | 23.20 | 1.222 | 0.051 | / |
| | State5 | | | Top Edge | 10 | 167300 | 836.5 | 106 | 1 | 1 | 0.08 | 0.003 | 22.29 | 23.20 | 1.233 | 0.004 | / |
| | State5 | | | | 10 | 167300 | 836.5 | 106 | 50 | 0 | 0.18 | 0.002 | 22.33 | 23.20 | 1.222 | 0.002 | / |
| | State5 | | | Bottom Edge | 10 | 167300 | 836.5 | 106 | 1 | 1 | 0.19 | 0.076 | 22.29 | 23.20 | 1.233 | 0.094 | / |
| | State5 | | | | 10 | 167300 | 836.5 | 106 | 50 | 0 | -0.16 | 0.073 | 22.33 | 23.20 | 1.222 | 0.089 | / |

Note: Refer to ANNEX C for the detailed test data for each test configuration.

## 11.18 5G n7 (20MHz Bandwidth)

| Antenna | Power Reduction | Mode | Information | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB UL | RB Num. | RB Start | Power Drift (dB) | 1g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head** | | | | | | | | | | | | | | | | | |
| Ant.4 | State2&4&6 | DFT-s-OFDM BPSK | SA&NSA | Left Cheek | 0 | 502000 | 2510 | 106 | 1 | 53 | -0.01 | 0.303 | 15.27 | 16.00 | 1.183 | 0.358 | / |
| | State2&4&6 | | | | 0 | 507000 | 2535 | 106 | 50 | 28 | 0.05 | 0.312 | 15.45 | 16.00 | 1.135 | 0.354 | / |
| | State2&4&6 | | | Left Tilt | 0 | 502000 | 2510 | 106 | 1 | 1 | -0.18 | 0.358 | 15.27 | 16.00 | 1.183 | 0.424 | / |
| | State2&4&6 | | | | 0 | 507000 | 2535 | 106 | 50 | 0 | 0.04 | 0.334 | 15.45 | 16.00 | 1.135 | 0.379 | / |
| | State2&4&6 | | | Right Cheek | 0 | 502000 | 2510 | 106 | 1 | 1 | -0.16 | 0.422 | 15.27 | 16.00 | 1.183 | 0.499 | / |
| | State2&4&6 | | | | 0 | 507000 | 2535 | 106 | 50 | 0 | -0.03 | 0.435 | 15.45 | 16.00 | 1.135 | 0.494 | / |
| | State2&4&6 | | | Right Tilt | 0 | 502000 | 2510 | 106 | 1 | 1 | -0.08 | 0.623 | 15.27 | 16.00 | 1.183 | 0.737 | / |
| | State2&4&6 | | | | 0 | 507000 | 2535 | 106 | 50 | 0 | -0.01 | 0.686 | 15.45 | 16.00 | 1.135 | **0.779** | 58# |
| Ant.4 | State6 | DFT-s-OFDM BPSK | NSA | Left Cheek | 0 | 507000 | 2535 | 106 | 1 | 1 | 0.15 | 0.252 | 14.63 | 15.20 | 1.140 | 0.287 | / |
| | State6 | | | | 0 | 507000 | 2535 | 106 | 50 | 0 | -0.01 | 0.260 | 14.79 | 15.20 | 1.099 | 0.286 | / |
| | State6 | | | Left Tilt | 0 | 507000 | 2535 | 106 | 1 | 1 | -0.03 | 0.298 | 14.63 | 15.20 | 1.140 | 0.340 | / |
| | State6 | | | | 0 | 507000 | 2535 | 106 | 50 | 0 | -0.01 | 0.260 | 14.79 | 15.20 | 1.099 | 0.286 | / |
| | State6 | | | Right Cheek | 0 | 507000 | 2535 | 106 | 1 | 1 | 0.18 | 0.351 | 14.63 | 15.20 | 1.140 | 0.400 | / |
| | State6 | | | | 0 | 507000 | 2535 | 106 | 50 | 0 | 0.14 | 0.362 | 14.79 | 15.20 | 1.099 | 0.398 | / |
| | State6 | | | Right Tilt | 0 | 507000 | 2535 | 106 | 1 | 1 | 0.10 | 0.431 | 14.63 | 15.20 | 1.140 | 0.491 | / |
| | State6 | | | | 0 | 507000 | 2535 | 106 | 50 | 0 | 0.05 | 0.465 | 14.79 | 15.20 | 1.099 | 0.511 | / |
| Ant.3 | State2&4&6 | DFT-s-OFDM BPSK | SA&NSA | Left Cheek | 0 | 507000 | 2535 | 106 | 1 | 1 | 0.04 | 0.041 | 22.20 | 23.70 | 1.413 | 0.058 | / |
| | State2&4&6 | | | | 0 | 507000 | 2535 | 106 | 50 | 0 | 0.02 | 0.042 | 22.37 | 23.70 | 1.358 | 0.057 | / |
| | State2&4&6 | | | Left Tilt | 0 | 507000 | 2535 | 106 | 1 | 1 | 0.09 | 0.022 | 22.20 | 23.70 | 1.413 | 0.031 | / |
| | State2&4&6 | | | | 0 | 507000 | 2535 | 106 | 50 | 0 | -0.07 | 0.021 | 22.37 | 23.70 | 1.358 | 0.029 | / |
| | State2&4&6 | | | Right Cheek | 0 | 507000 | 2535 | 106 | 1 | 1 | -0.13 | 0.083 | 22.20 | 23.70 | 1.413 | 0.117 | / |
| | State2&4&6 | | | | 0 | 507000 | 2535 | 106 | 50 | 0 | -0.07 | 0.099 | 22.37 | 23.70 | 1.358 | 0.134 | / |
| | State2&4&6 | | | Right Tilt | 0 | 507000 | 2535 | 106 | 1 | 1 | -0.04 | 0.045 | 22.20 | 23.70 | 1.413 | 0.064 | / |
| | State2&4&6 | | | | 0 | 507000 | 2535 | 106 | 50 | 0 | 0.11 | 0.041 | 22.37 | 23.70 | 1.358 | 0.056 | / |
| Ant.1 | State2&4&6 | DFT-s-OFDM BPSK | SA&NSA | Left Cheek | 0 | 507000 | 2535 | 106 | 1 | 1 | -0.08 | 0.077 | 22.43 | 23.70 | 1.340 | 0.103 | / |
| | State2&4&6 | | | | 0 | 507000 | 2535 | 106 | 50 | 0 | -0.19 | 0.098 | 22.32 | 23.70 | 1.374 | 0.135 | / |
| | State2&4&6 | | | Left Tilt | 0 | 507000 | 2535 | 106 | 1 | 1 | 0.10 | 0.045 | 22.43 | 23.70 | 1.340 | 0.060 | / |
| | State2&4&6 | | | | 0 | 507000 | 2535 | 106 | 50 | 0 | 0.10 | 0.043 | 22.32 | 23.70 | 1.374 | 0.059 | / |
| | State2&4&6 | | | Right Cheek | 0 | 507000 | 2535 | 106 | 1 | 1 | -0.13 | 0.225 | 22.43 | 23.70 | 1.340 | 0.302 | / |
| | State2&4&6 | | | | 0 | 507000 | 2535 | 106 | 50 | 0 | -0.19 | 0.208 | 22.32 | 23.70 | 1.374 | 0.286 | / |
| | State2&4&6 | | | Right Tilt | 0 | 507000 | 2535 | 106 | 1 | 1 | -0.15 | 0.082 | 22.43 | 23.70 | 1.340 | 0.110 | / |
| | State2&4&6 | | | | 0 | 507000 | 2535 | 106 | 50 | 0 | -0.07 | 0.059 | 22.32 | 23.70 | 1.374 | 0.081 | / |
| **Body-worn** | | | | | | | | | | | | | | | | | |
| Ant.4 | State1 | DFT-s-OFDM BPSK | SA | Front Side | 15 | 507000 | 2535 | 106 | 1 | 1 | -0.11 | 0.161 | 19.75 | 20.70 | 1.245 | 0.200 | / |
| | State1 | | | | 15 | 507000 | 2535 | 106 | 50 | 0 | 0.15 | 0.158 | 19.85 | 20.70 | 1.216 | 0.192 | / |
| | State1 | | | Back Side | 15 | 507000 | 2535 | 106 | 1 | 1 | -0.03 | 0.208 | 19.75 | 20.70 | 1.245 | **0.259** | 59# |
| | State1 | | | | 15 | 507000 | 2535 | 106 | 50 | 0 | -0.11 | 0.199 | 19.85 | 20.70 | 1.216 | 0.242 | / |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ant.4 | State3&5 | DFT-s-OFDM BPSK | SA | Front Side | 15 | 507000 | 2535 | 106 | 1 | 1 | -0.19 | 0.112 | 17.77 | 18.70 | 1.239 | 0.139 | / |
| | State3&5 | | | | 15 | 507000 | 2535 | 106 | 50 | 0 | 0.14 | 0.106 | 17.87 | 18.70 | 1.211 | 0.128 | / |
| | State3&5 | | | Back Side | 15 | 507000 | 2535 | 106 | 1 | 1 | -0.12 | 0.141 | 17.77 | 18.70 | 1.239 | 0.175 | / |
| | State3&5 | | | | 15 | 507000 | 2535 | 106 | 50 | 0 | 0.06 | 0.135 | 17.87 | 18.70 | 1.211 | 0.163 | / |
| Ant.4 | State1 | DFT-s-OFDM BPSK | NSA | Front Side | 15 | 507000 | 2535 | 106 | 1 | 1 | -0.19 | 0.112 | 17.77 | 18.70 | 1.239 | 0.139 | / |
| | State1 | | | | 15 | 507000 | 2535 | 106 | 50 | 0 | 0.14 | 0.106 | 17.87 | 18.70 | 1.211 | 0.128 | / |
| | State1 | | | Back Side | 15 | 507000 | 2535 | 106 | 1 | 1 | -0.12 | 0.141 | 17.77 | 18.70 | 1.239 | 0.175 | / |
| | State1 | | | | 15 | 507000 | 2535 | 106 | 50 | 0 | 0.06 | 0.135 | 17.87 | 18.70 | 1.211 | 0.163 | / |
| Ant.4 | State3&5 | DFT-s-OFDM BPSK | NSA | Front Side | 15 | 507000 | 2535 | 106 | 1 | 53 | -0.19 | 0.063 | 15.23 | 15.70 | 1.114 | 0.070 | / |
| | State3&5 | | | | 15 | 504000 | 2520 | 106 | 50 | 28 | 0.14 | 0.060 | 15.37 | 15.70 | 1.079 | 0.065 | / |
| | State3&5 | | | Back Side | 15 | 507000 | 2535 | 106 | 1 | 53 | -0.12 | 0.078 | 15.23 | 15.70 | 1.114 | 0.087 | / |
| | State3&5 | | | | 15 | 504000 | 2520 | 106 | 50 | 28 | 0.06 | 0.061 | 15.37 | 15.70 | 1.079 | 0.066 | / |
| Ant.3 | State1&3 | DFT-s-OFDM BPSK | SA | Front Side | 15 | 507000 | 2535 | 106 | 1 | 1 | -0.04 | 0.022 | 18.23 | 19.70 | 1.403 | 0.031 | / |
| | State1&3 | | | | 15 | 507000 | 2535 | 106 | 50 | 0 | 0.08 | 0.025 | 18.25 | 19.70 | 1.396 | 0.035 | / |
| | State1&3 | | | Back Side | 15 | 507000 | 2535 | 106 | 1 | 1 | -0.14 | 0.035 | 17.98 | 19.70 | 1.486 | 0.052 | / |
| | State1&3 | | | | 15 | 507000 | 2535 | 106 | 50 | 0 | 0.14 | 0.030 | 18.25 | 19.70 | 1.396 | 0.042 | / |
| Ant.3 | State5 | DFT-s-OFDM BPSK | SA | Front Side | 15 | 507000 | 2535 | 106 | 1 | 1 | 0.03 | 0.014 | 17.25 | 18.20 | 1.245 | 0.017 | / |
| | State5 | | | | 15 | 507000 | 2535 | 106 | 50 | 0 | -0.03 | 0.015 | 17.36 | 18.20 | 1.213 | 0.018 | / |
| | State5 | | | Back Side | 15 | 507000 | 2535 | 106 | 1 | 1 | -0.07 | 0.026 | 17.25 | 18.20 | 1.245 | 0.032 | / |
| | State5 | | | | 15 | 507000 | 2535 | 106 | 50 | 0 | -0.17 | 0.023 | 17.36 | 18.20 | 1.213 | 0.028 | / |
| Ant.3 | State1&3 | DFT-s-OFDM BPSK | NSA | Front Side | 15 | 507000 | 2535 | 106 | 1 | 1 | 0.03 | 0.014 | 17.25 | 18.20 | 1.245 | 0.017 | / |
| | State1&3 | | | | 15 | 507000 | 2535 | 106 | 50 | 0 | -0.03 | 0.015 | 17.36 | 18.20 | 1.213 | 0.018 | / |
| | State1&3 | | | Back Side | 15 | 507000 | 2535 | 106 | 1 | 1 | -0.07 | 0.026 | 17.25 | 18.20 | 1.245 | 0.032 | / |
| | State1&3 | | | | 15 | 507000 | 2535 | 106 | 50 | 0 | -0.17 | 0.023 | 17.36 | 18.20 | 1.213 | 0.028 | / |
| Ant.3 | State5 | DFT-s-OFDM BPSK | NSA | Front Side | 15 | 507000 | 2535 | 106 | 1 | 1 | 0.00 | 0.009 | 14.75 | 15.20 | 1.109 | 0.010 | / |
| | State5 | | | | 15 | 507000 | 2535 | 106 | 50 | 0 | -0.18 | 0.008 | 14.93 | 15.20 | 1.064 | 0.009 | / |
| | State5 | | | Back Side | 15 | 507000 | 2535 | 106 | 1 | 1 | 0.18 | 0.016 | 14.75 | 15.20 | 1.109 | 0.018 | / |
| | State5 | | | | 15 | 507000 | 2535 | 106 | 50 | 0 | -0.03 | 0.014 | 14.93 | 15.20 | 1.064 | 0.015 | / |
| Ant.1 | State1&3 | DFT-s-OFDM BPSK | NSA | Front Side | 15 | 507000 | 2535 | 106 | 1 | 1 | 0.04 | 0.023 | 22.43 | 23.70 | 1.340 | 0.031 | / |
| | State1&3 | | | | 15 | 507000 | 2535 | 106 | 50 | 0 | -0.12 | 0.022 | 22.32 | 23.70 | 1.374 | 0.030 | / |
| | State1&3 | | | Back Side | 15 | 507000 | 2535 | 106 | 1 | 1 | -0.05 | 0.045 | 22.43 | 23.70 | 1.340 | 0.060 | / |
| | State1&3 | | | | 15 | 507000 | 2535 | 106 | 50 | 0 | -0.06 | 0.041 | 22.32 | 23.70 | 1.374 | 0.056 | / |
| Ant.1 | State5 | DFT-s-OFDM BPSK | NSA | Front Side | 15 | 507000 | 2535 | 106 | 1 | 1 | -0.16 | 0.016 | 21.62 | 22.20 | 1.143 | 0.018 | / |
| | State5 | | | | 15 | 507000 | 2535 | 106 | 50 | 0 | -0.15 | 0.015 | 21.50 | 22.20 | 1.175 | 0.018 | / |
| | State5 | | | Back Side | 15 | 507000 | 2535 | 106 | 1 | 1 | -0.09 | 0.032 | 21.62 | 22.20 | 1.143 | 0.037 | / |
| | State5 | | | | 15 | 507000 | 2535 | 106 | 50 | 0 | 0.00 | 0.031 | 21.50 | 22.20 | 1.175 | 0.036 | / |
| **Hotspot** | | | | | | | | | | | | | | | | | |
| Ant.4 | State3&5 | DFT-s-OFDM BPSK | SA | Front Side | 10 | 507000 | 2535 | 106 | 1 | 1 | -0.15 | 0.141 | 17.77 | 18.70 | 1.239 | 0.175 | / |
| | State3&5 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | 0.08 | 0.144 | 17.87 | 18.70 | 1.211 | 0.174 | / |
| | State3&5 | | | Back Side | 10 | 507000 | 2535 | 106 | 1 | 1 | 0.04 | 0.165 | 17.77 | 18.70 | 1.239 | 0.204 | / |
| | State3&5 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | 0.00 | 0.161 | 17.87 | 18.70 | 1.211 | 0.195 | / |
| | State3&5 | | | Left Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | 0.00 | 0.065 | 17.77 | 18.70 | 1.239 | 0.081 | / |
| | State3&5 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | -0.10 | 0.063 | 17.87 | 18.70 | 1.211 | 0.076 | / |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | State3&5 | | | Right Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | 0.15 | 0.082 | 17.77 | 18.70 | 1.239 | 0.102 | / |
| | State3&5 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | -0.09 | 0.079 | 17.87 | 18.70 | 1.211 | 0.096 | / |
| | State3&5 | | | Top Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | -0.04 | 0.311 | 17.77 | 18.70 | 1.239 | 0.385 | / |
| | State3&5 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | -0.04 | 0.306 | 17.87 | 18.70 | 1.211 | 0.371 | / |
| | State3&5 | | | Bottom Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | -0.03 | 0.010 | 17.77 | 18.70 | 1.239 | 0.012 | / |
| | State3&5 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | 0.16 | 0.008 | 17.87 | 18.70 | 1.211 | 0.010 | / |
| Ant.4 | State3&5 | DFT-s-OFDM BPSK | NSA | Front Side | 10 | 507000 | 2535 | 106 | 1 | 53 | -0.15 | 0.076 | 15.23 | 15.70 | 1.114 | 0.085 | / |
| | State3&5 | | | | 10 | 504000 | 2520 | 106 | 50 | 28 | 0.08 | 0.076 | 15.37 | 15.70 | 1.079 | 0.082 | / |
| | State3&5 | | | Back Side | 10 | 507000 | 2535 | 106 | 1 | 53 | 0.04 | 0.092 | 15.23 | 15.70 | 1.114 | 0.102 | / |
| | State3&5 | | | | 10 | 504000 | 2520 | 106 | 50 | 28 | 0.00 | 0.092 | 15.37 | 15.70 | 1.079 | 0.099 | / |
| | State3&5 | | | Left Edge | 10 | 507000 | 2535 | 106 | 1 | 53 | 0.00 | 0.028 | 15.23 | 15.70 | 1.114 | 0.031 | / |
| | State3&5 | | | | 10 | 504000 | 2520 | 106 | 50 | 28 | -0.10 | 0.032 | 15.37 | 15.70 | 1.079 | 0.035 | / |
| | State3&5 | | | Right Edge | 10 | 507000 | 2535 | 106 | 1 | 53 | 0.15 | 0.035 | 15.23 | 15.70 | 1.114 | 0.039 | / |
| | State3&5 | | | | 10 | 504000 | 2520 | 106 | 50 | 28 | -0.09 | 0.038 | 15.37 | 15.70 | 1.079 | 0.041 | / |
| | State3&5 | | | Top Edge | 10 | 507000 | 2535 | 106 | 1 | 53 | -0.04 | 0.158 | 15.23 | 15.70 | 1.114 | 0.176 | / |
| | State3&5 | | | | 10 | 504000 | 2520 | 106 | 50 | 28 | -0.04 | 0.174 | 15.37 | 15.70 | 1.079 | 0.188 | / |
| | State3&5 | | | Bottom Edge | 10 | 507000 | 2535 | 106 | 1 | 53 | -0.03 | 0.012 | 15.23 | 15.70 | 1.114 | 0.013 | / |
| | State3&5 | | | | 10 | 504000 | 2520 | 106 | 50 | 28 | 0.16 | 0.008 | 15.37 | 15.70 | 1.079 | 0.009 | / |
| Ant.3 | State1&3 | DFT-s-OFDM BPSK | SA | Front Side | 10 | 507000 | 2535 | 106 | 1 | 1 | 0.06 | 0.069 | 18.23 | 19.70 | 1.403 | 0.097 | / |
| | State1&3 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | -0.16 | 0.068 | 18.25 | 19.70 | 1.396 | 0.095 | / |
| | State1&3 | | | Back Side | 10 | 507000 | 2535 | 106 | 1 | 1 | -0.19 | 0.085 | 18.23 | 19.70 | 1.403 | 0.119 | / |
| | State1&3 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | -0.07 | 0.081 | 18.25 | 19.70 | 1.396 | 0.113 | / |
| | State1&3 | | | Left Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | 0.05 | 0.016 | 18.23 | 19.70 | 1.403 | 0.022 | / |
| | State1&3 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | -0.16 | 0.015 | 18.25 | 19.70 | 1.396 | 0.021 | / |
| | State1&3 | | | Right Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | 0.11 | 0.006 | 18.23 | 19.70 | 1.403 | 0.008 | / |
| | State1&3 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | 0.13 | 0.005 | 18.25 | 19.70 | 1.396 | 0.007 | / |
| | State1&3 | | | Top Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | 0.11 | 0.013 | 18.23 | 19.70 | 1.403 | 0.018 | / |
| | State1&3 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | -0.01 | 0.011 | 18.25 | 19.70 | 1.396 | 0.015 | / |
| | State1&3 | | | Bottom Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | 0.00 | 0.476 | 18.23 | 19.70 | 1.403 | **0.668** | 60# |
| | State1&3 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | -0.07 | 0.466 | 18.25 | 19.70 | 1.396 | 0.651 | / |
| Ant.3 | State5 | DFT-s-OFDM BPSK | SA | Front Side | 10 | 507000 | 2535 | 106 | 1 | 1 | 0.07 | 0.047 | 17.25 | 18.20 | 1.245 | 0.059 | / |
| | State5 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | 0.19 | 0.045 | 17.36 | 18.20 | 1.213 | 0.055 | / |
| | State5 | | | Back Side | 10 | 507000 | 2535 | 106 | 1 | 1 | 0.03 | 0.066 | 17.25 | 18.20 | 1.245 | 0.082 | / |
| | State5 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | 0.19 | 0.061 | 17.36 | 18.20 | 1.213 | 0.074 | / |
| | State5 | | | Left Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | 0.03 | 0.013 | 17.25 | 18.20 | 1.245 | 0.016 | / |
| | State5 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | 0.09 | 0.012 | 17.36 | 18.20 | 1.213 | 0.015 | / |
| | State5 | | | Right Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | 0.04 | 0.003 | 17.25 | 18.20 | 1.245 | 0.004 | / |
| | State5 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | 0.00 | 0.004 | 17.36 | 18.20 | 1.213 | 0.005 | / |
| | State5 | | | Top Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | -0.15 | 0.010 | 17.25 | 18.20 | 1.245 | 0.012 | / |
| | State5 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | -0.11 | 0.009 | 17.36 | 18.20 | 1.213 | 0.011 | / |
| | State5 | | | Bottom Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | -0.15 | 0.323 | 17.25 | 18.20 | 1.245 | 0.402 | / |
| | State5 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | -0.03 | 0.331 | 17.36 | 18.20 | 1.213 | 0.402 | / |
| Ant.3 | State1&3 | | NSA | Front Side | 10 | 507000 | 2535 | 106 | 1 | 1 | 0.07 | 0.047 | 17.25 | 18.20 | 1.245 | 0.059 | / |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | State1&3 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | 0.19 | 0.045 | 17.36 | 18.20 | 1.213 | 0.055 | / |
| | State1&3 | | | Back Side | 10 | 507000 | 2535 | 106 | 1 | 1 | 0.03 | 0.066 | 17.25 | 18.20 | 1.245 | 0.082 | / |
| | State1&3 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | 0.19 | 0.061 | 17.36 | 18.20 | 1.213 | 0.074 | / |
| | State1&3 | | | Left Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | 0.03 | 0.013 | 17.25 | 18.20 | 1.245 | 0.016 | / |
| | State1&3 | DFT-s- | | | 10 | 507000 | 2535 | 106 | 50 | 0 | 0.09 | 0.012 | 17.36 | 18.20 | 1.213 | 0.015 | / |
| | State1&3 | OFDM | | Right Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | 0.04 | 0.003 | 17.25 | 18.20 | 1.245 | 0.004 | / |
| | State1&3 | BPSK | | | 10 | 507000 | 2535 | 106 | 50 | 0 | 0.00 | 0.004 | 17.36 | 18.20 | 1.213 | 0.005 | / |
| | State1&3 | | | Top Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | -0.15 | 0.010 | 17.25 | 18.20 | 1.245 | 0.012 | / |
| | State1&3 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | -0.11 | 0.009 | 17.36 | 18.20 | 1.213 | 0.011 | / |
| | State1&3 | | | Bottom Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | -0.15 | 0.323 | 17.25 | 18.20 | 1.245 | 0.402 | / |
| | State1&3 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | -0.03 | 0.331 | 17.36 | 18.20 | 1.213 | 0.402 | / |
| Ant.3 | State5 | | | Front Side | 10 | 507000 | 2535 | 106 | 1 | 1 | 0.01 | 0.028 | 14.75 | 15.20 | 1.109 | 0.031 | / |
| | State5 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | -0.15 | 0.026 | 14.93 | 15.20 | 1.064 | 0.028 | / |
| | State5 | | | Back Side | 10 | 507000 | 2535 | 106 | 1 | 1 | -0.02 | 0.036 | 14.75 | 15.20 | 1.109 | 0.040 | / |
| | State5 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | 0.11 | 0.035 | 14.93 | 15.20 | 1.064 | 0.037 | / |
| | State5 | | | Left Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | 0.18 | 0.006 | 14.75 | 15.20 | 1.109 | 0.007 | / |
| | State5 | DFT-s- | | | 10 | 507000 | 2535 | 106 | 50 | 0 | 0.19 | 0.006 | 14.93 | 15.20 | 1.064 | 0.006 | / |
| | State5 | OFDM | NSA | Right Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | 0.00 | 0.002 | 14.75 | 15.20 | 1.109 | 0.002 | / |
| | State5 | BPSK | | | 10 | 507000 | 2535 | 106 | 50 | 0 | -0.16 | 0.001 | 14.93 | 15.20 | 1.064 | 0.001 | / |
| | State5 | | | Top Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | -0.15 | 0.006 | 14.75 | 15.20 | 1.109 | 0.007 | / |
| | State5 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | -0.05 | 0.004 | 14.93 | 15.20 | 1.064 | 0.004 | / |
| | State5 | | | Bottom Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | -0.17 | 0.177 | 14.75 | 15.20 | 1.109 | 0.196 | / |
| | State5 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | -0.14 | 0.171 | 14.93 | 15.20 | 1.064 | 0.182 | / |
| | State1&3 | | | Front Side | 10 | 507000 | 2535 | 106 | 1 | 1 | -0.16 | 0.068 | 22.43 | 23.70 | 1.340 | 0.091 | / |
| | State1&3 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | 0.03 | 0.054 | 22.32 | 23.70 | 1.374 | 0.074 | / |
| | State1&3 | | | Back Side | 10 | 507000 | 2535 | 106 | 1 | 1 | 0.01 | 0.101 | 22.43 | 23.70 | 1.340 | 0.135 | / |
| | State1&3 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | -0.17 | 0.080 | 22.32 | 23.70 | 1.374 | 0.110 | / |
| | State1&3 | | | Left Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | 0.13 | 0.012 | 22.43 | 23.70 | 1.340 | 0.016 | / |
| | State1&3 | DFT-s- | | | 10 | 507000 | 2535 | 106 | 50 | 0 | -0.19 | 0.011 | 22.32 | 23.70 | 1.374 | 0.015 | / |
| Ant.1 | State1&3 | OFDM | NSA | Right Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | -0.08 | 0.129 | 22.43 | 23.70 | 1.340 | 0.173 | / |
| | State1&3 | BPSK | | | 10 | 507000 | 2535 | 106 | 50 | 0 | -0.10 | 0.103 | 22.32 | 23.70 | 1.374 | 0.142 | / |
| | State1&3 | | | Top Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | -0.07 | 0.021 | 22.43 | 23.70 | 1.340 | 0.028 | / |
| | State1&3 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | 0.10 | 0.019 | 22.32 | 23.70 | 1.374 | 0.026 | / |
| | State1&3 | | | Bottom Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | -0.05 | 0.009 | 22.43 | 23.70 | 1.340 | 0.012 | / |
| | State1&3 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | 0.12 | 0.006 | 22.32 | 23.70 | 1.374 | 0.008 | / |
| | State5 | | | Front Side | 10 | 507000 | 2535 | 106 | 1 | 1 | -0.19 | 0.051 | 21.62 | 22.20 | 1.143 | 0.058 | / |
| | State5 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | -0.19 | 0.016 | 21.50 | 22.20 | 1.175 | 0.019 | / |
| | State5 | | | Back Side | 10 | 507000 | 2535 | 106 | 1 | 1 | 0.01 | 0.075 | 21.62 | 22.20 | 1.143 | 0.086 | / |
| | State5 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | 0.09 | 0.069 | 21.50 | 22.20 | 1.175 | 0.081 | / |
| | State5 | DFT-s- | | Left Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | -0.04 | 0.008 | 21.62 | 22.20 | 1.143 | 0.009 | / |
| Ant.1 | State5 | OFDM | NSA | | 10 | 507000 | 2535 | 106 | 50 | 0 | 0.06 | 0.007 | 21.50 | 22.20 | 1.175 | 0.008 | / |
| | State5 | BPSK | | Right Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | 0.19 | 0.101 | 21.62 | 22.20 | 1.143 | 0.115 | / |
| | State5 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | -0.04 | 0.094 | 21.50 | 22.20 | 1.175 | 0.110 | / |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | State5 | | | Top Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | -0.14 | 0.015 | 21.62 | 22.20 | 1.143 | 0.017 | / |
| | State5 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | 0.10 | 0.013 | 21.50 | 22.20 | 1.175 | 0.015 | / |
| | State5 | | | Bottom Edge | 10 | 507000 | 2535 | 106 | 1 | 1 | -0.14 | 0.004 | 21.62 | 22.20 | 1.143 | 0.005 | / |
| | State5 | | | | 10 | 507000 | 2535 | 106 | 50 | 0 | -0.11 | 0.005 | 21.50 | 22.20 | 1.175 | 0.006 | / |
| Note: Refer to ANNEX C for the detailed test data for each test configuration. | | | | | | | | | | | | | | | | | |

| Antenna | Power Reduction | Mode | Information | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB UL | RB Num. | RB Start | Power Drift (dB) | 10g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 10g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Specific** | | | | | | | | | | | | | | | | | |
| Ant.4 | State1 | DFT-s-OFDM BPSK | SA | Top Edge | 0 | 507000 | 2535 | 106 | 1 | 1 | -0.11 | 1.490 | 19.75 | 20.70 | 1.245 | 1.854 | / |
| | State1 | | | | 0 | 507000 | 2535 | 106 | 50 | 0 | -0.03 | 1.570 | 19.85 | 20.70 | 1.216 | **1.909** | 61# |
| Ant.3 | State1&3 | DFT-s-OFDM BPSK | SA | Bottom Edge | 0 | 507000 | 2535 | 106 | 1 | 1 | -0.06 | 0.708 | 18.23 | 19.70 | 1.403 | 0.993 | / |
| | State1&3 | | | | 0 | 507000 | 2535 | 106 | 50 | 0 | 0.12 | 0.691 | 18.25 | 19.70 | 1.396 | 0.965 | / |
| Note: Refer to ANNEX C for the detailed test data for each test configuration. | | | | | | | | | | | | | | | | | |

## 11.19 5G n38 (20MHz Bandwidth)

| Antenna | Power Reduction | Mode | Information | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB UL | RB Num. | RB Start | Power Drift (dB) | 1g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head** | | | | | | | | | | | | | | | | | |
| Ant.4 | State2&4&6 | DFT-s-OFDM BPSK | SA | Left Cheek | 0 | 519000 | 2595 | 51 | 1 | 1 | 0.11 | 0.465 | 16.42 | 17.20 | 1.197 | 0.557 | / |
| | State2&4&6 | | | | 0 | 519000 | 2595 | 51 | 25 | 0 | 0.16 | 0.443 | 16.58 | 17.20 | 1.153 | 0.511 | / |
| | State2&4&6 | | | Left Tilt | 0 | 519000 | 2595 | 51 | 1 | 1 | 0.17 | 0.594 | 16.42 | 17.20 | 1.197 | 0.711 | / |
| | State2&4&6 | | | | 0 | 519000 | 2595 | 51 | 25 | 0 | -0.14 | 0.565 | 16.58 | 17.20 | 1.153 | 0.651 | / |
| | State2&4&6 | | | Right Cheek | 0 | 519000 | 2595 | 51 | 1 | 1 | -0.04 | 0.611 | 16.42 | 17.20 | 1.197 | 0.731 | / |
| | State2&4&6 | | | | 0 | 519000 | 2595 | 51 | 25 | 0 | 0.03 | 0.606 | 16.58 | 17.20 | 1.153 | 0.699 | / |
| | State2&4&6 | | | Right Tilt | 0 | 519000 | 2595 | 51 | 1 | 1 | -0.01 | 0.684 | 16.42 | 17.20 | 1.197 | **0.819** | 62# |
| | State2&4&6 | | | | 0 | 519000 | 2595 | 51 | 25 | 0 | 0.12 | 0.623 | 16.58 | 17.20 | 1.153 | 0.718 | / |
| | State2&4&6 | | | | 0 | 516000 | 2580 | 51 | 1 | 26 | 0.16 | 0.666 | 16.41 | 17.20 | 1.199 | 0.799 | / |
| | State2&4&6 | | | | 0 | 522000 | 2610 | 51 | 1 | 26 | 0.06 | 0.631 | 16.26 | 17.20 | 1.242 | 0.784 | / |
| | State2&4&6 | | | | 0 | 519000 | 2595 | 51 | 50 | 0 | 0.00 | 0.671 | 16.45 | 17.20 | 1.189 | 0.798 | / |
| Ant.3 | State2&4&6 | DFT-s-OFDM BPSK | SA | Left Cheek | 0 | 519000 | 2595 | 51 | 1 | 1 | -0.09 | 0.036 | 23.74 | 24.20 | 1.112 | 0.040 | / |
| | State2&4&6 | | | | 0 | 519000 | 2595 | 51 | 25 | 0 | 0.17 | 0.035 | 23.78 | 24.20 | 1.102 | 0.039 | / |
| | State2&4&6 | | | Left Tilt | 0 | 519000 | 2595 | 51 | 1 | 1 | 0.15 | 0.041 | 23.74 | 24.20 | 1.112 | 0.046 | / |
| | State2&4&6 | | | | 0 | 519000 | 2595 | 51 | 25 | 0 | -0.13 | 0.043 | 23.78 | 24.20 | 1.102 | 0.047 | / |
| | State2&4&6 | | | Right Cheek | 0 | 519000 | 2595 | 51 | 1 | 1 | -0.07 | 0.051 | 23.74 | 24.20 | 1.112 | 0.057 | / |
| | State2&4&6 | | | | 0 | 519000 | 2595 | 51 | 25 | 0 | 0.13 | 0.018 | 23.78 | 24.20 | 1.102 | 0.020 | / |
| | State2&4&6 | | | Right Tilt | 0 | 519000 | 2595 | 51 | 1 | 1 | 0.09 | 0.022 | 23.74 | 24.20 | 1.112 | 0.024 | / |
| | State2&4&6 | | | | 0 | 519000 | 2595 | 51 | 25 | 0 | 0.13 | 0.021 | 23.78 | 24.20 | 1.102 | 0.023 | / |
| **Body-worn** | | | | | | | | | | | | | | | | | |
| Ant.4 | State1 | DFT-s-OFDM BPSK | SA | Front Side | 15 | 519000 | 2595 | 51 | 1 | 1 | -0.03 | 0.133 | 19.53 | 20.70 | 1.309 | 0.174 | / |
| | State1 | | | | 15 | 519000 | 2595 | 51 | 25 | 0 | 0.04 | 0.128 | 19.44 | 20.70 | 1.337 | 0.171 | / |
| | State1 | | | Back Side | 15 | 519000 | 2595 | 51 | 1 | 1 | -0.03 | 0.162 | 19.53 | 20.70 | 1.309 | **0.212** | 63# |
| | State1 | | | | 15 | 519000 | 2595 | 51 | 25 | 0 | -0.04 | 0.158 | 19.44 | 20.70 | 1.337 | 0.211 | / |
| Ant.4 | State3&5 | DFT-s-OFDM BPSK | SA | Front Side | 15 | 519000 | 2595 | 51 | 1 | 1 | 0.18 | 0.091 | 17.89 | 19.20 | 1.352 | 0.123 | / |
| | State3&5 | | | | 15 | 519000 | 2595 | 51 | 25 | 0 | 0.05 | 0.092 | 17.98 | 19.20 | 1.324 | 0.122 | / |
| | State3&5 | | | Back Side | 15 | 519000 | 2595 | 51 | 1 | 1 | -0.06 | 0.121 | 17.89 | 19.20 | 1.352 | 0.164 | / |
| | State3&5 | | | | 15 | 519000 | 2595 | 51 | 25 | 0 | -0.08 | 0.118 | 17.98 | 19.20 | 1.324 | 0.156 | / |
| Ant.3 | State1&3 | DFT-s-OFDM BPSK | SA | Front Side | 15 | 519000 | 2595 | 51 | 1 | 1 | 0.13 | 0.035 | 18.30 | 18.70 | 1.096 | 0.038 | / |
| | State1&3 | | | | 15 | 519000 | 2595 | 51 | 25 | 0 | -0.02 | 0.032 | 18.43 | 18.70 | 1.064 | 0.034 | / |
| | State1&3 | | | Back Side | 15 | 519000 | 2595 | 51 | 1 | 1 | 0.05 | 0.049 | 18.30 | 18.70 | 1.096 | 0.054 | / |
| | State1&3 | | | | 15 | 519000 | 2595 | 51 | 25 | 0 | -0.08 | 0.053 | 18.43 | 18.70 | 1.064 | 0.056 | / |
| Ant.3 | State5 | DFT-s-OFDM BPSK | SA | Front Side | 15 | 519000 | 2595 | 51 | 1 | 1 | -0.16 | 0.028 | 16.83 | 17.20 | 1.089 | 0.030 | / |
| | State5 | | | | 15 | 519000 | 2595 | 51 | 25 | 0 | 0.06 | 0.022 | 17.04 | 17.20 | 1.038 | 0.023 | / |
| | State5 | | | Back Side | 15 | 519000 | 2595 | 51 | 1 | 1 | 0.12 | 0.032 | 16.83 | 17.20 | 1.089 | 0.035 | / |
| | State5 | | | | 15 | 519000 | 2595 | 51 | 25 | 0 | 0.15 | 0.031 | 17.04 | 17.20 | 1.038 | 0.032 | / |
| **Hotspot** | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ant.4 | State3&5 | DFT-s-OFDM BPSK | SA | Front Side | 10 | 519000 | 2595 | 51 | 1 | 1 | 0.10 | 0.166 | 17.89 | 19.20 | 1.352 | 0.224 | / |
| | State3&5 | | | | 10 | 519000 | 2595 | 51 | 25 | 0 | 0.03 | 0.161 | 17.98 | 19.20 | 1.324 | 0.213 | / |
| | State3&5 | | | Back Side | 10 | 519000 | 2595 | 51 | 1 | 1 | 0.08 | 0.185 | 17.89 | 19.20 | 1.352 | 0.250 | / |
| | State3&5 | | | | 10 | 519000 | 2595 | 51 | 25 | 0 | 0.17 | 0.181 | 17.98 | 19.20 | 1.324 | 0.240 | / |
| | State3&5 | | | Left Edge | 10 | 519000 | 2595 | 51 | 1 | 1 | 0.08 | 0.056 | 17.89 | 19.20 | 1.352 | 0.076 | / |
| | State3&5 | | | | 10 | 519000 | 2595 | 51 | 25 | 0 | 0.06 | 0.053 | 17.98 | 19.20 | 1.324 | 0.070 | / |
| | State3&5 | | | Right Edge | 10 | 519000 | 2595 | 51 | 1 | 1 | 0.03 | 0.094 | 17.89 | 19.20 | 1.352 | 0.127 | / |
| | State3&5 | | | | 10 | 519000 | 2595 | 51 | 25 | 0 | 0.09 | 0.091 | 17.98 | 19.20 | 1.324 | 0.120 | / |
| | State3&5 | | | Top Edge | 10 | 519000 | 2595 | 51 | 1 | 1 | -0.06 | 0.374 | 17.89 | 19.20 | 1.352 | 0.506 | / |
| | State3&5 | | | | 10 | 519000 | 2595 | 51 | 25 | 0 | -0.09 | 0.362 | 17.98 | 19.20 | 1.324 | 0.479 | / |
| | State3&5 | | | Bottom Edge | 10 | 519000 | 2595 | 51 | 1 | 1 | 0.16 | 0.021 | 17.89 | 19.20 | 1.352 | 0.028 | / |
| | State3&5 | | | | 10 | 519000 | 2595 | 51 | 25 | 0 | -0.08 | 0.019 | 17.98 | 19.20 | 1.324 | 0.025 | / |
| Ant.3 | State1&3 | DFT-s-OFDM BPSK | SA | Front Side | 10 | 519000 | 2595 | 51 | 1 | 1 | 0.18 | 0.069 | 18.30 | 18.70 | 1.096 | 0.076 | / |
| | State1&3 | | | | 10 | 519000 | 2595 | 51 | 25 | 0 | 0.09 | 0.065 | 18.43 | 18.70 | 1.064 | 0.069 | / |
| | State1&3 | | | Back Side | 10 | 519000 | 2595 | 51 | 1 | 1 | -0.13 | 0.231 | 18.30 | 18.70 | 1.096 | 0.253 | / |
| | State1&3 | | | | 10 | 519000 | 2595 | 51 | 25 | 0 | 0.05 | 0.238 | 18.43 | 18.70 | 1.064 | 0.253 | / |
| | State1&3 | | | Left Edge | 10 | 519000 | 2595 | 51 | 1 | 1 | 0.10 | 0.063 | 18.30 | 18.70 | 1.096 | 0.069 | / |
| | State1&3 | | | | 10 | 519000 | 2595 | 51 | 25 | 0 | -0.02 | 0.061 | 18.43 | 18.70 | 1.064 | 0.065 | / |
| | State1&3 | | | Right Edge | 10 | 519000 | 2595 | 51 | 1 | 1 | 0.18 | 0.023 | 18.30 | 18.70 | 1.096 | 0.025 | / |
| | State1&3 | | | | 10 | 519000 | 2595 | 51 | 25 | 0 | 0.09 | 0.022 | 18.43 | 18.70 | 1.064 | 0.023 | / |
| | State1&3 | | | Top Edge | 10 | 519000 | 2595 | 51 | 1 | 1 | 0.13 | 0.016 | 18.30 | 18.70 | 1.096 | 0.018 | / |
| | State1&3 | | | | 10 | 519000 | 2595 | 51 | 25 | 0 | -0.16 | 0.015 | 18.43 | 18.70 | 1.064 | 0.016 | / |
| | State1&3 | | | Bottom Edge | 10 | 519000 | 2595 | 51 | 1 | 1 | 0.10 | 0.506 | 18.30 | 18.70 | 1.096 | 0.555 | / |
| | State1&3 | | | | 10 | 519000 | 2595 | 51 | 25 | 0 | 0.01 | 0.523 | 18.43 | 18.70 | 1.064 | **0.556** | 64# |
| Ant.3 | State5 | DFT-s-OFDM BPSK | SA | Front Side | 10 | 519000 | 2595 | 51 | 1 | 1 | -0.06 | 0.047 | 16.83 | 17.20 | 1.089 | 0.051 | / |
| | State5 | | | | 10 | 519000 | 2595 | 51 | 25 | 0 | 0.15 | 0.046 | 17.04 | 17.20 | 1.038 | 0.048 | / |
| | State5 | | | Back Side | 10 | 519000 | 2595 | 51 | 1 | 1 | 0.09 | 0.155 | 16.83 | 17.20 | 1.089 | 0.169 | / |
| | State5 | | | | 10 | 519000 | 2595 | 51 | 25 | 0 | 0.15 | 0.151 | 17.04 | 17.20 | 1.038 | 0.157 | / |
| | State5 | | | Left Edge | 10 | 519000 | 2595 | 51 | 1 | 1 | -0.04 | 0.061 | 16.83 | 17.20 | 1.089 | 0.066 | / |
| | State5 | | | | 10 | 519000 | 2595 | 51 | 25 | 0 | 0.19 | 0.058 | 17.04 | 17.20 | 1.038 | 0.060 | / |
| | State5 | | | Right Edge | 10 | 519000 | 2595 | 51 | 1 | 1 | 0.03 | 0.013 | 16.83 | 17.20 | 1.089 | 0.014 | / |
| | State5 | | | | 10 | 519000 | 2595 | 51 | 25 | 0 | -0.19 | 0.014 | 17.04 | 17.20 | 1.038 | 0.015 | / |
| | State5 | | | Top Edge | 10 | 519000 | 2595 | 51 | 1 | 1 | -0.18 | 0.009 | 16.83 | 17.20 | 1.089 | 0.010 | / |
| | State5 | | | | 10 | 519000 | 2595 | 51 | 25 | 0 | -0.06 | 0.008 | 17.04 | 17.20 | 1.038 | 0.008 | / |
| | State5 | | | Bottom Edge | 10 | 519000 | 2595 | 51 | 1 | 1 | -0.10 | 0.367 | 16.83 | 17.20 | 1.089 | 0.400 | / |
| | State5 | | | | 10 | 519000 | 2595 | 51 | 25 | 0 | 0.07 | 0.372 | 17.04 | 17.20 | 1.038 | 0.386 | / |

Note: Refer to ANNEX C for the detailed test data for each test configuration.

| Antenna | Power Reduction | Mode | Information | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB UL | RB Num. | RB Start | Power Drift (dB) | 10g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 10g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Specific** | | | | | | | | | | | | | | | | | |
| Ant.4 | State1 | DFT-s-OFDM BPSK | SA | Top Edge | 0 | 519000 | 2595 | 51 | 1 | 1 | 0.02 | 1.200 | 19.53 | 20.70 | 1.309 | **1.571** | 65# |
| | State1 | | | | 0 | 519000 | 2595 | 51 | 25 | 0 | 0.11 | 1.120 | 19.44 | 20.70 | 1.337 | 1.497 | / |
| Ant.3 | State1&3 | DFT-s-OFDM BPSK | SA | Bottom Edge | 0 | 519000 | 2595 | 51 | 1 | 1 | -0.02 | 1.090 | 18.30 | 18.70 | 1.096 | 1.195 | / |
| | State1&3 | | | | 0 | 519000 | 2595 | 51 | 25 | 0 | -0.03 | 1.290 | 18.43 | 18.70 | 1.064 | 1.373 | / |
| Note: Refer to ANNEX C for the detailed test data for each test configuration. | | | | | | | | | | | | | | | | | |

## 11.20 5G n41 (100MHz Bandwidth)

| Antenna | Power Reduction | Mode | Information | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB UL | RB Num. | RB Start | Power Drift (dB) | 1g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head** | | | | | | | | | | | | | | | | | |
| Ant.4 | State2&4 | DFT-s-OFDM BPSK | NSA | Left Cheek | 0 | 518598 | 2592.99 | 273 | 1 | 1 | -0.16 | 0.221 | 13.86 | 14.20 | 1.081 | 0.239 | / |
| | State2&4 | | | | 0 | 518598 | 2592.99 | 273 | 135 | 0 | 0.00 | 0.206 | 13.87 | 14.20 | 1.079 | 0.222 | / |
| | State2&4 | | | Left Tilt | 0 | 518598 | 2592.99 | 273 | 1 | 1 | -0.13 | 0.242 | 13.86 | 14.20 | 1.081 | 0.262 | / |
| | State2&4 | | | | 0 | 518598 | 2592.99 | 273 | 135 | 0 | -0.11 | 0.233 | 13.87 | 14.20 | 1.079 | 0.251 | / |
| | State2&4 | | | Right Cheek | 0 | 518598 | 2592.99 | 273 | 1 | 1 | 0.01 | 0.323 | 13.86 | 14.20 | 1.081 | 0.349 | / |
| | State2&4 | | | | 0 | 518598 | 2592.99 | 273 | 135 | 0 | 0.05 | 0.316 | 13.87 | 14.20 | 1.079 | 0.341 | / |
| | State2&4 | | | Right Tilt | 0 | 518598 | 2592.99 | 273 | 1 | 1 | 0.03 | 0.462 | 13.86 | 14.20 | 1.081 | **0.499** | 66# |
| | State2&4 | | | | 0 | 518598 | 2592.99 | 273 | 135 | 0 | -0.05 | 0.356 | 13.87 | 14.20 | 1.079 | 0.384 | / |
| Ant.4 | State6 | DFT-s-OFDM BPSK | NSA | Left Cheek | 0 | 518598 | 2592.99 | 273 | 1 | 1 | -0.11 | 0.168 | 13.86 | 14.20 | 1.081 | 0.182 | / |
| | State6 | | | | 0 | 518598 | 2592.99 | 273 | 135 | 0 | 0.05 | 0.160 | 13.87 | 14.20 | 1.079 | 0.173 | / |
| | State6 | | | Left Tilt | 0 | 518598 | 2592.99 | 273 | 1 | 1 | 0.05 | 0.183 | 13.86 | 14.20 | 1.081 | 0.198 | / |
| | State6 | | | | 0 | 518598 | 2592.99 | 273 | 135 | 0 | -0.15 | 0.196 | 13.87 | 14.20 | 1.079 | 0.211 | / |
| | State6 | | | Right Cheek | 0 | 518598 | 2592.99 | 273 | 1 | 1 | 0.08 | 0.265 | 13.86 | 14.20 | 1.081 | 0.286 | / |
| | State6 | | | | 0 | 518598 | 2592.99 | 273 | 135 | 0 | -0.04 | 0.242 | 13.87 | 14.20 | 1.079 | 0.261 | / |
| | State6 | | | Right Tilt | 0 | 518598 | 2592.99 | 273 | 1 | 1 | 0.19 | 0.309 | 13.86 | 14.20 | 1.081 | 0.334 | / |
| | State6 | | | | 0 | 518598 | 2592.99 | 273 | 135 | 0 | -0.13 | 0.282 | 13.87 | 14.20 | 1.079 | 0.304 | / |
| Ant.3 | State2&4&6 | DFT-s-OFDM BPSK | SA&NSA | Left Cheek | 0 | 518598 | 2592.99 | 273 | 1 | 1 | -0.17 | 0.038 | 23.28 | 24.20 | 1.236 | 0.047 | / |
| | State2&4&6 | | | | 0 | 518598 | 2592.99 | 273 | 135 | 0 | 0.11 | 0.036 | 23.66 | 24.20 | 1.132 | 0.041 | / |
| | State2&4&6 | | | Left Tilt | 0 | 518598 | 2592.99 | 273 | 1 | 1 | 0.19 | 0.043 | 23.28 | 24.20 | 1.236 | 0.053 | / |
| | State2&4&6 | | | | 0 | 518598 | 2592.99 | 273 | 135 | 0 | -0.17 | 0.046 | 23.66 | 24.20 | 1.132 | 0.052 | / |
| | State2&4&6 | | | Right Cheek | 0 | 518598 | 2592.99 | 273 | 1 | 1 | -0.02 | 0.068 | 23.28 | 24.20 | 1.236 | 0.084 | / |
| | State2&4&6 | | | | 0 | 518598 | 2592.99 | 273 | 135 | 0 | -0.03 | 0.072 | 23.66 | 24.20 | 1.132 | 0.082 | / |
| | State2&4&6 | | | Right Tilt | 0 | 518598 | 2592.99 | 273 | 1 | 1 | -0.06 | 0.033 | 23.28 | 24.20 | 1.236 | 0.041 | / |
| | State2&4&6 | | | | 0 | 518598 | 2592.99 | 273 | 135 | 0 | 0.04 | 0.031 | 23.66 | 24.20 | 1.132 | 0.035 | / |
| **Body-worn** | | | | | | | | | | | | | | | | | |
| Ant.4 | State1 | DFT-s-OFDM BPSK | SA | Front Side | 15 | 518598 | 2592.99 | 273 | 1 | 1 | -0.13 | 0.131 | 19.84 | 20.20 | 1.086 | 0.142 | / |
| | State1 | | | | 15 | 518598 | 2592.99 | 273 | 135 | 0 | 0.15 | 0.137 | 19.77 | 20.20 | 1.104 | 0.151 | / |
| | State1 | | | Back Side | 15 | 518598 | 2592.99 | 273 | 1 | 1 | -0.08 | 0.171 | 19.84 | 20.20 | 1.086 | 0.186 | / |
| | State1 | | | | 15 | 518598 | 2592.99 | 273 | 135 | 0 | 0.01 | 0.181 | 19.77 | 20.20 | 1.104 | **0.200** | 67# |
| Ant.4 | State1&3&5 | DFT-s-OFDM BPSK | SA&NSA | Front Side | 15 | 518598 | 2592.99 | 273 | 1 | 1 | 0.03 | 0.091 | 18.07 | 18.70 | 1.156 | 0.105 | / |
| | State1&3&5 | | | | 15 | 518598 | 2592.99 | 273 | 135 | 0 | 0.08 | 0.097 | 18.15 | 18.70 | 1.135 | 0.110 | / |
| | State1&3&5 | | | Back Side | 15 | 518598 | 2592.99 | 273 | 1 | 1 | -0.02 | 0.133 | 18.07 | 18.70 | 1.156 | 0.154 | / |
| | State1&3&5 | | | | 15 | 518598 | 2592.99 | 273 | 135 | 0 | 0.14 | 0.125 | 18.15 | 18.70 | 1.135 | 0.142 | / |
| Ant.4 | State3&5 | DFT-s-OFDM BPSK | NSA | Front Side | 15 | 518598 | 2592.99 | 273 | 1 | 1 | -0.14 | 0.053 | 15.50 | 15.70 | 1.047 | 0.055 | / |
| | State3&5 | | | | 15 | 518598 | 2592.99 | 273 | 135 | 0 | 0.11 | 0.051 | 15.48 | 15.70 | 1.052 | 0.054 | / |
| | State3&5 | | | Back Side | 15 | 518598 | 2592.99 | 273 | 1 | 1 | -0.10 | 0.072 | 15.50 | 15.70 | 1.047 | 0.075 | / |
| | State3&5 | | | | 15 | 518598 | 2592.99 | 273 | 135 | 0 | 0.08 | 0.071 | 15.48 | 15.70 | 1.052 | 0.075 | / |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ant.3 | State1&3 | DFT-s-OFDM BPSK | SA | Front Side | 15 | 518598 | 2592.99 | 273 | 1 | 1 | -0.17 | 0.025 | 19.60 | 20.20 | 1.148 | 0.029 | / |
| | State1&3 | | | | 15 | 518598 | 2592.99 | 273 | 135 | 0 | 0.09 | 0.023 | 19.54 | 20.20 | 1.164 | 0.027 | / |
| | State1&3 | | | Back Side | 15 | 518598 | 2592.99 | 273 | 1 | 1 | -0.13 | 0.055 | 19.60 | 20.20 | 1.148 | 0.063 | / |
| | State1&3 | | | | 15 | 518598 | 2592.99 | 273 | 135 | 0 | 0.01 | 0.052 | 19.54 | 20.20 | 1.164 | 0.061 | / |
| Ant.3 | State1&5 | DFT-s-OFDM BPSK | SA&NSA | Front Side | 15 | 518598 | 2592.99 | 273 | 1 | 1 | 0.06 | 0.021 | 18.16 | 18.70 | 1.132 | 0.024 | / |
| | State1&5 | | | | 15 | 518598 | 2592.99 | 273 | 135 | 0 | -0.17 | 0.020 | 18.34 | 18.70 | 1.086 | 0.022 | / |
| | State1&5 | | | Back Side | 15 | 518598 | 2592.99 | 273 | 1 | 1 | 0.07 | 0.042 | 18.16 | 18.70 | 1.132 | 0.048 | / |
| | State1&5 | | | | 15 | 518598 | 2592.99 | 273 | 135 | 0 | 0.10 | 0.041 | 18.34 | 18.70 | 1.086 | 0.045 | / |
| Ant.3 | State3&5 | DFT-s-OFDM BPSK | NSA | Front Side | 15 | 518598 | 2592.99 | 273 | 1 | 1 | 0.06 | 0.016 | 15.50 | 15.70 | 1.047 | 0.017 | / |
| | State3&5 | | | | 15 | 518598 | 2592.99 | 273 | 135 | 0 | -0.17 | 0.015 | 15.48 | 15.70 | 1.052 | 0.016 | / |
| | State3&5 | | | Back Side | 15 | 518598 | 2592.99 | 273 | 1 | 1 | 0.07 | 0.023 | 15.50 | 15.70 | 1.047 | 0.024 | / |
| | State3&5 | | | | 15 | 518598 | 2592.99 | 273 | 135 | 0 | 0.10 | 0.022 | 15.48 | 15.70 | 1.052 | 0.023 | / |
| **Hotspot** | | | | | | | | | | | | | | | | | |
| Ant.4 | State1&3&5 | DFT-s-OFDM BPSK | SA&NSA | Front Side | 10 | 518598 | 2592.99 | 273 | 1 | 1 | 0.01 | 0.172 | 18.07 | 18.70 | 1.156 | 0.199 | / |
| | State1&3&5 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | -0.10 | 0.168 | 18.15 | 18.70 | 1.135 | 0.191 | / |
| | State1&3&5 | | | Back Side | 10 | 518598 | 2592.99 | 273 | 1 | 1 | -0.07 | 0.231 | 18.07 | 18.70 | 1.156 | 0.267 | / |
| | State1&3&5 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | 0.07 | 0.236 | 18.15 | 18.70 | 1.135 | 0.268 | / |
| | State1&3&5 | | | Left Edge | 10 | 518598 | 2592.99 | 273 | 1 | 1 | 0.19 | 0.053 | 18.07 | 18.70 | 1.156 | 0.061 | / |
| | State1&3&5 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | -0.17 | 0.051 | 18.15 | 18.70 | 1.135 | 0.058 | / |
| | State1&3&5 | | | Right Edge | 10 | 518598 | 2592.99 | 273 | 1 | 1 | -0.06 | 0.084 | 18.07 | 18.70 | 1.156 | 0.097 | / |
| | State1&3&5 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | 0.15 | 0.086 | 18.15 | 18.70 | 1.135 | 0.098 | / |
| | State1&3&5 | | | Top Edge | 10 | 518598 | 2592.99 | 273 | 1 | 1 | 0.18 | 0.513 | 18.07 | 18.70 | 1.156 | 0.593 | / |
| | State1&3&5 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | 0.07 | 0.511 | 18.15 | 18.70 | 1.135 | 0.580 | / |
| | State1&3&5 | | | Bottom Edge | 10 | 518598 | 2592.99 | 273 | 1 | 1 | -0.09 | 0.021 | 18.07 | 18.70 | 1.156 | 0.024 | / |
| | State1&3&5 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | -0.10 | 0.018 | 18.15 | 18.70 | 1.135 | 0.020 | / |
| Ant.4 | State3&5 | DFT-s-OFDM BPSK | NSA | Front Side | 10 | 518598 | 2592.99 | 273 | 1 | 1 | -0.05 | 0.094 | 15.50 | 15.70 | 1.047 | 0.098 | / |
| | State3&5 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | -0.09 | 0.091 | 15.48 | 15.70 | 1.052 | 0.096 | / |
| | State3&5 | | | Back Side | 10 | 518598 | 2592.99 | 273 | 1 | 1 | 0.16 | 0.101 | 15.50 | 15.70 | 1.047 | 0.106 | / |
| | State3&5 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | 0.11 | 0.103 | 15.48 | 15.70 | 1.052 | 0.108 | / |
| | State3&5 | | | Left Edge | 10 | 518598 | 2592.99 | 273 | 1 | 1 | 0.03 | 0.021 | 15.50 | 15.70 | 1.047 | 0.022 | / |
| | State3&5 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | 0.11 | 0.023 | 15.48 | 15.70 | 1.052 | 0.024 | / |
| | State3&5 | | | Right Edge | 10 | 518598 | 2592.99 | 273 | 1 | 1 | 0.11 | 0.035 | 15.50 | 15.70 | 1.047 | 0.037 | / |
| | State3&5 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | 0.11 | 0.036 | 15.48 | 15.70 | 1.052 | 0.038 | / |
| | State3&5 | | | Top Edge | 10 | 518598 | 2592.99 | 273 | 1 | 1 | 0.16 | 0.233 | 15.50 | 15.70 | 1.047 | 0.244 | / |
| | State3&5 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | -0.11 | 0.235 | 15.48 | 15.70 | 1.052 | 0.247 | / |
| | State3&5 | | | Bottom Edge | 10 | 518598 | 2592.99 | 273 | 1 | 1 | -0.16 | 0.012 | 15.50 | 15.70 | 1.047 | 0.013 | / |
| | State3&5 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | -0.10 | 0.011 | 15.48 | 15.70 | 1.052 | 0.012 | / |
| Ant.3 | State1&3 | DFT-s-OFDM BPSK | SA | Front Side | 10 | 518598 | 2592.99 | 273 | 1 | 1 | -0.10 | 0.131 | 19.60 | 20.20 | 1.148 | 0.150 | / |
| | State1&3 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | 0.01 | 0.126 | 19.54 | 20.20 | 1.164 | 0.147 | / |
| | State1&3 | | | Back Side | 10 | 518598 | 2592.99 | 273 | 1 | 1 | 0.03 | 0.345 | 19.60 | 20.20 | 1.148 | 0.396 | / |
| | State1&3 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | -0.17 | 0.341 | 19.54 | 20.20 | 1.164 | 0.397 | / |
| | State1&3 | | | Left Edge | 10 | 518598 | 2592.99 | 273 | 1 | 1 | -0.03 | 0.061 | 19.60 | 20.20 | 1.148 | 0.070 | / |
| | State1&3 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | -0.17 | 0.066 | 19.54 | 20.20 | 1.164 | 0.077 | / |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | State1&3 | | | Right Edge | 10 | 518598 | 2592.99 | 273 | 1 | 1 | 0.01 | 0.039 | 19.60 | 20.20 | 1.148 | 0.045 | / |
| | State1&3 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | -0.11 | 0.037 | 19.54 | 20.20 | 1.164 | 0.043 | / |
| | State1&3 | | | Top Edge | 10 | 518598 | 2592.99 | 273 | 1 | 1 | -0.06 | 0.054 | 19.60 | 20.20 | 1.148 | 0.062 | / |
| | State1&3 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | 0.09 | 0.056 | 19.54 | 20.20 | 1.164 | 0.065 | / |
| | State1&3 | | | Bottom Edge | 10 | 518598 | 2592.99 | 273 | 1 | 1 | -0.04 | 0.783 | 19.60 | 20.20 | 1.148 | **0.899** | 68# |
| | State1&3 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | -0.02 | 0.711 | 19.54 | 20.20 | 1.164 | 0.828 | / |
| | State1&3 | | | | 10 | 509202 | 2546.01 | 273 | 1 | 137 | 0.11 | 0.733 | 19.46 | 20.20 | 1.186 | 0.869 | / |
| | State1&3 | | | | 10 | 513900 | 2569.5 | 273 | 1 | 137 | -0.01 | 0.726 | 19.40 | 20.20 | 1.202 | 0.873 | / |
| | State1&3 | | | | 10 | 523302 | 2616.51 | 273 | 1 | 137 | 0.19 | 0.722 | 19.52 | 20.20 | 1.169 | 0.844 | / |
| | State1&3 | | | | 10 | 528000 | 2640 | 273 | 1 | 271 | 0.08 | 0.600 | 18.96 | 20.20 | 1.330 | 0.798 | / |
| | State1&3 | | | | 10 | 509202 | 2546.01 | 273 | 135 | 0 | 0.00 | 0.727 | 19.36 | 20.20 | 1.213 | 0.882 | / |
| | State1&3 | | | | 10 | 513900 | 2569.5 | 273 | 135 | 69 | 0.12 | 0.719 | 19.51 | 20.20 | 1.172 | 0.843 | / |
| | State1&3 | | | | 10 | 523302 | 2616.51 | 273 | 135 | 0 | 0.16 | 0.726 | 19.48 | 20.20 | 1.180 | 0.857 | / |
| | State1&3 | | | | 10 | 528000 | 2640 | 273 | 135 | 69 | -0.01 | 0.734 | 19.46 | 20.20 | 1.186 | 0.871 | / |
| | State1&3 | | | | 10 | 509202 | 2546.01 | 273 | 270 | 0 | -0.16 | 0.713 | 19.42 | 20.20 | 1.197 | 0.853 | / |
| Ant.3 | State1&5 | DFT-s-OFDM BPSK | SA&NSA | Front Side | 10 | 518598 | 2592.99 | 273 | 1 | 1 | -0.19 | 0.091 | 18.16 | 18.70 | 1.132 | 0.103 | / |
| | State1&5 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | -0.03 | 0.087 | 18.34 | 18.70 | 1.086 | 0.094 | / |
| | State1&5 | | | Back Side | 10 | 518598 | 2592.99 | 273 | 1 | 1 | -0.14 | 0.253 | 18.16 | 18.70 | 1.132 | 0.286 | / |
| | State1&5 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | 0.08 | 0.248 | 18.34 | 18.70 | 1.086 | 0.269 | / |
| | State1&5 | | | Left Edge | 10 | 518598 | 2592.99 | 273 | 1 | 1 | -0.19 | 0.041 | 18.16 | 18.70 | 1.132 | 0.046 | / |
| | State1&5 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | -0.16 | 0.046 | 18.34 | 18.70 | 1.086 | 0.050 | / |
| | State1&5 | | | Right Edge | 10 | 518598 | 2592.99 | 273 | 1 | 1 | -0.18 | 0.032 | 18.16 | 18.70 | 1.132 | 0.036 | / |
| | State1&5 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | 0.19 | 0.031 | 18.34 | 18.70 | 1.086 | 0.034 | / |
| | State1&5 | | | Top Edge | 10 | 518598 | 2592.99 | 273 | 1 | 1 | -0.03 | 0.045 | 18.16 | 18.70 | 1.132 | 0.051 | / |
| | State1&5 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | -0.10 | 0.041 | 18.34 | 18.70 | 1.086 | 0.045 | / |
| | State1&5 | | | Bottom Edge | 10 | 518598 | 2592.99 | 273 | 1 | 1 | -0.09 | 0.565 | 18.16 | 18.70 | 1.132 | 0.640 | / |
| | State1&5 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | 0.07 | 0.533 | 18.34 | 18.70 | 1.086 | 0.579 | / |
| Ant.3 | State3&5 | DFT-s-OFDM BPSK | NSA | Front Side | 10 | 518598 | 2592.99 | 273 | 1 | 1 | 0.03 | 0.053 | 15.50 | 15.70 | 1.047 | 0.055 | / |
| | State3&5 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | 0.06 | 0.051 | 15.48 | 15.70 | 1.052 | 0.054 | / |
| | State3&5 | | | Back Side | 10 | 518598 | 2592.99 | 273 | 1 | 1 | -0.06 | 0.112 | 15.50 | 15.70 | 1.047 | 0.117 | / |
| | State3&5 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | -0.17 | 0.111 | 15.48 | 15.70 | 1.052 | 0.117 | / |
| | State3&5 | | | Left Edge | 10 | 518598 | 2592.99 | 273 | 1 | 1 | -0.01 | 0.019 | 15.50 | 15.70 | 1.047 | 0.020 | / |
| | State3&5 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | 0.15 | 0.016 | 15.48 | 15.70 | 1.052 | 0.017 | / |
| | State3&5 | | | Right Edge | 10 | 518598 | 2592.99 | 273 | 1 | 1 | -0.07 | 0.023 | 15.50 | 15.70 | 1.047 | 0.024 | / |
| | State3&5 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | -0.05 | 0.021 | 15.48 | 15.70 | 1.052 | 0.022 | / |
| | State3&5 | | | Top Edge | 10 | 518598 | 2592.99 | 273 | 1 | 1 | -0.08 | 0.022 | 15.50 | 15.70 | 1.047 | 0.023 | / |
| | State3&5 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | -0.07 | 0.026 | 15.48 | 15.70 | 1.052 | 0.027 | / |
| | State3&5 | | | Bottom Edge | 10 | 518598 | 2592.99 | 273 | 1 | 1 | 0.06 | 0.277 | 15.50 | 15.70 | 1.047 | 0.290 | / |
| | State3&5 | | | | 10 | 518598 | 2592.99 | 273 | 135 | 0 | -0.12 | 0.271 | 15.48 | 15.70 | 1.052 | 0.285 | / |

Note: Refer to ANNEX C for the detailed test data for each test configuration.

| Antenna | Power Reduction | Mode | Information | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB UL | RB Num. | RB Start | Power Drift (dB) | 10g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 10g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Specific** | | | | | | | | | | | | | | | | | |
| Ant.4 | State1 | DFT-s-OFDM BPSK | SA | Top Edge | 0 | 518598 | 2592.99 | 273 | 1 | 1 | 0.03 | 1.610 | 19.84 | 20.20 | 1.086 | 1.748 | / |
| | State1 | | | | 0 | 518598 | 2592.99 | 273 | 135 | 0 | -0.01 | 1.650 | 19.77 | 20.20 | 1.104 | **1.822** | 69# |
| Ant.3 | State1&3 | DFT-s-OFDM BPSK | SA | Bottom Edge | 0 | 518598 | 2592.99 | 273 | 1 | 1 | 0.00 | 1.090 | 19.60 | 20.20 | 1.148 | 1.251 | / |
| | State1&3 | | | | 0 | 518598 | 2592.99 | 273 | 135 | 0 | 0.02 | 1.010 | 19.54 | 20.20 | 1.164 | 1.176 | / |
| Note: Refer to ANNEX C for the detailed test data for each test configuration. | | | | | | | | | | | | | | | | | |

## 11.21 5G n66 (20MHz Bandwidth)

| Antenna | Power Reduction | Mode | Information | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB UL | RB Num. | RB Start | Power Drift (dB) | 1g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head** | | | | | | | | | | | | | | | | | |
| Ant.4 | State2&4 | DFT-s-OFDM BPSK | SA | Left Cheek | 0 | 349000 | 1745 | 106 | 1 | 1 | 0.09 | 0.102 | 16.51 | 17.60 | 1.285 | 0.131 | / |
| | State2&4 | | | | 0 | 349000 | 1745 | 106 | 50 | 0 | 0.04 | 0.106 | 16.61 | 17.60 | 1.256 | 0.133 | / |
| | State2&4 | | | Left Tilt | 0 | 349000 | 1745 | 106 | 1 | 1 | 0.06 | 0.135 | 16.51 | 17.60 | 1.285 | 0.173 | / |
| | State2&4 | | | | 0 | 349000 | 1745 | 106 | 50 | 0 | 0.19 | 0.133 | 16.61 | 17.60 | 1.256 | 0.167 | / |
| | State2&4 | | | Right Cheek | 0 | 349000 | 1745 | 106 | 1 | 1 | 0.13 | 0.165 | 16.51 | 17.60 | 1.285 | 0.212 | / |
| | State2&4 | | | | 0 | 349000 | 1745 | 106 | 50 | 0 | 0.17 | 0.166 | 16.61 | 17.60 | 1.256 | 0.208 | / |
| | State2&4 | | | Right Tilt | 0 | 349000 | 1745 | 106 | 1 | 1 | 0.05 | 0.169 | 16.51 | 17.60 | 1.285 | 0.217 | / |
| | State2&4 | | | | 0 | 349000 | 1745 | 106 | 50 | 0 | -0.02 | 0.175 | 16.61 | 17.60 | 1.256 | 0.220 | / |
| Ant.4 | State6 | DFT-s-OFDM BPSK | SA | Left Cheek | 0 | 349000 | 1745 | 106 | 1 | 1 | -0.06 | 0.075 | 15.55 | 16.60 | 1.274 | 0.096 | / |
| | State6 | | | | 0 | 349000 | 1745 | 106 | 50 | 0 | -0.15 | 0.071 | 15.67 | 16.60 | 1.239 | 0.088 | / |
| | State6 | | | Left Tilt | 0 | 349000 | 1745 | 106 | 1 | 1 | 0.19 | 0.112 | 15.55 | 16.60 | 1.274 | 0.143 | / |
| | State6 | | | | 0 | 349000 | 1745 | 106 | 50 | 0 | -0.15 | 0.111 | 15.67 | 16.60 | 1.239 | 0.138 | / |
| | State6 | | | Right Cheek | 0 | 349000 | 1745 | 106 | 1 | 1 | -0.07 | 0.145 | 15.55 | 16.60 | 1.274 | 0.185 | / |
| | State6 | | | | 0 | 349000 | 1745 | 106 | 50 | 0 | 0.01 | 0.141 | 15.67 | 16.60 | 1.239 | 0.175 | / |
| | State6 | | | Right Tilt | 0 | 349000 | 1745 | 106 | 1 | 1 | 0.05 | 0.151 | 15.55 | 16.60 | 1.274 | 0.192 | / |
| | State6 | | | | 0 | 349000 | 1745 | 106 | 50 | 0 | 0.14 | 0.155 | 15.67 | 16.60 | 1.239 | 0.192 | / |
| Ant.4 | State2&4 | DFT-s-OFDM BPSK | NSA | Left Cheek | 0 | 349000 | 1745 | 106 | 1 | 1 | -0.06 | 0.075 | 15.55 | 16.60 | 1.274 | 0.096 | / |
| | State2&4 | | | | 0 | 349000 | 1745 | 106 | 50 | 0 | -0.15 | 0.071 | 15.67 | 16.60 | 1.239 | 0.088 | / |
| | State2&4 | | | Left Tilt | 0 | 349000 | 1745 | 106 | 1 | 1 | 0.19 | 0.112 | 15.55 | 16.60 | 1.274 | 0.143 | / |
| | State2&4 | | | | 0 | 349000 | 1745 | 106 | 50 | 0 | -0.15 | 0.111 | 15.67 | 16.60 | 1.239 | 0.138 | / |
| | State2&4 | | | Right Cheek | 0 | 349000 | 1745 | 106 | 1 | 1 | -0.07 | 0.145 | 15.55 | 16.60 | 1.274 | 0.185 | / |
| | State2&4 | | | | 0 | 349000 | 1745 | 106 | 50 | 0 | 0.01 | 0.141 | 15.67 | 16.60 | 1.239 | 0.175 | / |
| | State2&4 | | | Right Tilt | 0 | 349000 | 1745 | 106 | 1 | 1 | 0.05 | 0.151 | 15.55 | 16.60 | 1.274 | 0.192 | / |
| | State2&4 | | | | 0 | 349000 | 1745 | 106 | 50 | 0 | 0.14 | 0.155 | 15.67 | 16.60 | 1.239 | 0.192 | / |
| Ant.4 | State6 | DFT-s-OFDM BPSK | NSA | Left Cheek | 0 | 349000 | 1745 | 106 | 1 | 1 | -0.06 | 0.051 | 14.02 | 14.60 | 1.143 | 0.058 | / |
| | State6 | | | | 0 | 349000 | 1745 | 106 | 50 | 0 | -0.09 | 0.048 | 14.22 | 14.60 | 1.091 | 0.052 | / |
| | State6 | | | Left Tilt | 0 | 349000 | 1745 | 106 | 1 | 1 | 0.06 | 0.073 | 14.02 | 14.60 | 1.143 | 0.083 | / |
| | State6 | | | | 0 | 349000 | 1745 | 106 | 50 | 0 | 0.02 | 0.071 | 14.22 | 14.60 | 1.091 | 0.077 | / |
| | State6 | | | Right Cheek | 0 | 349000 | 1745 | 106 | 1 | 1 | -0.09 | 0.095 | 14.02 | 14.60 | 1.143 | 0.109 | / |
| | State6 | | | | 0 | 349000 | 1745 | 106 | 50 | 0 | -0.12 | 0.093 | 14.22 | 14.60 | 1.091 | 0.101 | / |
| | State6 | | | Right Tilt | 0 | 349000 | 1745 | 106 | 1 | 1 | 0.15 | 0.101 | 14.02 | 14.60 | 1.143 | 0.115 | / |
| | State6 | | | | 0 | 349000 | 1745 | 106 | 50 | 0 | -0.01 | 0.106 | 14.22 | 14.60 | 1.091 | 0.116 | / |
| Ant.3 | State2&4&6 | DFT-s-OFDM BPSK | SA&NSA | Left Cheek | 0 | 349000 | 1745 | 106 | 1 | 1 | -0.06 | 0.083 | 23.47 | 24.20 | 1.183 | 0.098 | / |
| | State2&4&6 | | | | 0 | 349000 | 1745 | 106 | 50 | 0 | 0.01 | 0.083 | 23.47 | 24.20 | 1.183 | 0.098 | / |
| | State2&4&6 | | | Left Tilt | 0 | 349000 | 1745 | 106 | 1 | 1 | -0.01 | 0.052 | 23.47 | 24.20 | 1.183 | 0.062 | / |
| | State2&4&6 | | | | 0 | 349000 | 1745 | 106 | 50 | 0 | 0.18 | 0.052 | 23.47 | 24.20 | 1.183 | 0.062 | / |
| | State2&4&6 | | | Right Cheek | 0 | 349000 | 1745 | 106 | 1 | 1 | -0.03 | 0.121 | 23.47 | 24.20 | 1.183 | 0.143 | / |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | State2&4&6 | | | | 0 | 349000 | 1745 | 106 | 50 | 0 | 0.00 | 0.124 | 23.47 | 24.20 | 1.183 | 0.147 | / |
| | State2&4&6 | | | Right Tilt | 0 | 349000 | 1745 | 106 | 1 | 1 | -0.15 | 0.063 | 23.47 | 24.20 | 1.183 | 0.075 | / |
| | State2&4&6 | | | | 0 | 349000 | 1745 | 106 | 50 | 0 | 0.16 | 0.061 | 23.47 | 24.20 | 1.183 | 0.072 | / |
| Ant.1 | State2&4&6 | DFT-s-OFDM BPSK | NSA | Left Cheek | 0 | 349000 | 1745 | 106 | 1 | 1 | -0.11 | 0.223 | 22.92 | 24.20 | 1.343 | 0.299 | / |
| | State2&4&6 | | | | 0 | 349000 | 1745 | 106 | 50 | 0 | 0.12 | 0.202 | 22.91 | 24.20 | 1.346 | 0.272 | / |
| | State2&4&6 | | | Left Tilt | 0 | 349000 | 1745 | 106 | 1 | 1 | 0.06 | 0.128 | 22.92 | 24.20 | 1.343 | 0.172 | / |
| | State2&4&6 | | | | 0 | 349000 | 1745 | 106 | 50 | 0 | 0.09 | 0.110 | 22.91 | 24.20 | 1.346 | 0.148 | / |
| | State2&4&6 | | | Right Cheek | 0 | 349000 | 1745 | 106 | 1 | 1 | 0.08 | 0.576 | 22.92 | 24.20 | 1.343 | **0.774** | 70# |
| | State2&4&6 | | | | 0 | 349000 | 1745 | 106 | 50 | 0 | -0.19 | 0.436 | 22.91 | 24.20 | 1.346 | 0.587 | / |
| | State2&4&6 | | | Right Tilt | 0 | 349000 | 1745 | 106 | 1 | 1 | 0.01 | 0.149 | 22.92 | 24.20 | 1.343 | 0.200 | / |
| | State2&4&6 | | | | 0 | 349000 | 1745 | 106 | 50 | 0 | 0.08 | 0.122 | 22.91 | 24.20 | 1.346 | 0.164 | / |
| **Body-worn** | | | | | | | | | | | | | | | | | |
| Ant.4 | State1 | DFT-s-OFDM BPSK | SA | Front Side | 15 | 349000 | 1745 | 106 | 1 | 1 | -0.15 | 0.071 | 23.35 | 24.10 | 1.189 | 0.084 | / |
| | State1 | | | | 15 | 349000 | 1745 | 106 | 50 | 0 | 0.04 | 0.061 | 22.40 | 24.10 | 1.479 | 0.090 | / |
| | State1 | | | Back Side | 15 | 349000 | 1745 | 106 | 1 | 1 | -0.05 | 0.077 | 23.35 | 24.10 | 1.189 | 0.092 | / |
| | State1 | | | | 15 | 349000 | 1745 | 106 | 50 | 0 | 0.10 | 0.062 | 22.40 | 24.10 | 1.479 | 0.092 | / |
| Ant.4 | State3&5 | DFT-s-OFDM BPSK | SA | Front Side | 15 | 349000 | 1745 | 106 | 1 | 1 | -0.02 | 0.044 | 21.57 | 22.60 | 1.268 | 0.056 | / |
| | State3&5 | | | | 15 | 349000 | 1745 | 106 | 50 | 0 | 0.05 | 0.041 | 21.83 | 22.60 | 1.194 | 0.049 | / |
| | State3&5 | | | Back Side | 15 | 349000 | 1745 | 106 | 1 | 1 | 0.06 | 0.051 | 21.57 | 22.60 | 1.268 | 0.065 | / |
| | State3&5 | | | | 15 | 349000 | 1745 | 106 | 50 | 0 | 0.16 | 0.048 | 21.83 | 22.60 | 1.194 | 0.057 | / |
| Ant.4 | State1 | DFT-s-OFDM BPSK | NSA | Front Side | 15 | 349000 | 1745 | 106 | 1 | 1 | -0.02 | 0.044 | 21.57 | 22.60 | 1.268 | 0.056 | / |
| | State1 | | | | 15 | 349000 | 1745 | 106 | 50 | 0 | 0.05 | 0.041 | 21.83 | 22.60 | 1.194 | 0.049 | / |
| | State1 | | | Back Side | 15 | 349000 | 1745 | 106 | 1 | 1 | 0.06 | 0.051 | 21.57 | 22.60 | 1.268 | 0.065 | / |
| | State1 | | | | 15 | 349000 | 1745 | 106 | 50 | 0 | 0.16 | 0.048 | 21.83 | 22.60 | 1.194 | 0.057 | / |
| Ant.4 | State3&5 | DFT-s-OFDM BPSK | NSA | Front Side | 15 | 349000 | 1745 | 106 | 1 | 1 | -0.13 | 0.025 | 19.03 | 19.60 | 1.140 | 0.029 | / |
| | State3&5 | | | | 15 | 349000 | 1745 | 106 | 50 | 0 | 0.01 | 0.021 | 19.32 | 19.60 | 1.067 | 0.022 | / |
| | State3&5 | | | Back Side | 15 | 349000 | 1745 | 106 | 1 | 1 | -0.05 | 0.029 | 19.03 | 19.60 | 1.140 | 0.033 | / |
| | State3&5 | | | | 15 | 349000 | 1745 | 106 | 50 | 0 | -0.12 | 0.028 | 19.32 | 19.60 | 1.067 | 0.030 | / |
| Ant.3 | State1&3 | DFT-s-OFDM BPSK | SA&NSA | Front Side | 15 | 349000 | 1745 | 106 | 1 | 1 | 0.03 | 0.148 | 20.39 | 21.20 | 1.205 | 0.178 | / |
| | State1&3 | | | | 15 | 349000 | 1745 | 106 | 50 | 0 | -0.19 | 0.144 | 20.44 | 21.20 | 1.191 | 0.172 | / |
| | State1&3 | | | Back Side | 15 | 349000 | 1745 | 106 | 1 | 1 | -0.08 | 0.151 | 20.39 | 21.20 | 1.205 | 0.182 | / |
| | State1&3 | | | | 15 | 349000 | 1745 | 106 | 50 | 0 | -0.01 | 0.168 | 20.44 | 21.20 | 1.191 | **0.200** | 71# |
| Ant.3 | State5 | DFT-s-OFDM BPSK | SA&NSA | Front Side | 15 | 349000 | 1745 | 106 | 1 | 1 | 0.05 | 0.085 | 18.38 | 18.70 | 1.076 | 0.091 | / |
| | State5 | | | | 15 | 349000 | 1745 | 106 | 50 | 0 | 0.11 | 0.092 | 18.62 | 18.70 | 1.019 | 0.094 | / |
| | State5 | | | Back Side | 15 | 349000 | 1745 | 106 | 1 | 1 | 0.18 | 0.107 | 18.38 | 18.70 | 1.076 | 0.115 | / |
| | State5 | | | | 15 | 349000 | 1745 | 106 | 50 | 0 | 0.04 | 0.111 | 18.62 | 18.70 | 1.019 | 0.113 | / |
| Ant.1 | State1&3 | DFT-s-OFDM BPSK | SA&NSA | Front Side | 15 | 349000 | 1745 | 106 | 1 | 1 | 0.14 | 0.057 | 22.92 | 24.20 | 1.343 | 0.077 | / |
| | State1&3 | | | | 15 | 349000 | 1745 | 106 | 50 | 0 | 0.18 | 0.052 | 22.91 | 24.20 | 1.346 | 0.070 | / |
| | State1&3 | | | Back Side | 15 | 349000 | 1745 | 106 | 1 | 1 | -0.02 | 0.078 | 22.92 | 24.20 | 1.343 | 0.105 | / |
| | State1&3 | | | | 15 | 349000 | 1745 | 106 | 50 | 0 | 0.15 | 0.07 | 22.91 | 24.20 | 1.346 | 0.094 | / |
| Ant.1 | State5 | DFT-s-OFDM BPSK | SA&NSA | Front Side | 15 | 349000 | 1745 | 106 | 1 | 1 | 0.00 | 0.035 | 21.32 | 21.70 | 1.091 | 0.038 | / |
| | State5 | | | | 15 | 349000 | 1745 | 106 | 50 | 0 | 0.03 | 0.033 | 21.53 | 21.70 | 1.040 | 0.034 | / |
| | State5 | | | Back Side | 15 | 349000 | 1745 | 106 | 1 | 1 | 0.12 | 0.041 | 21.32 | 21.70 | 1.091 | 0.045 | / |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | State5 | | | | 15 | 349000 | 1745 | 106 | 50 | 0 | -0.17 | 0.044 | 21.53 | 21.70 | 1.040 | 0.046 | / |
| **Hotspot** | | | | | | | | | | | | | | | | | |
| Ant.4 | State3&5 | DFT-s-OFDM BPSK | SA | Front Side | 10 | 349000 | 1745 | 106 | 1 | 1 | -0.18 | 0.113 | 21.57 | 22.60 | 1.268 | 0.143 | / |
| | State3&5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | 0.16 | 0.106 | 21.83 | 22.60 | 1.194 | 0.127 | / |
| | State3&5 | | | Back Side | 10 | 349000 | 1745 | 106 | 1 | 1 | -0.17 | 0.121 | 21.57 | 22.60 | 1.268 | 0.153 | / |
| | State3&5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | -0.18 | 0.119 | 21.83 | 22.60 | 1.194 | 0.142 | / |
| | State3&5 | | | Left Edge | 10 | 349000 | 1745 | 106 | 1 | 1 | -0.06 | 0.015 | 21.57 | 22.60 | 1.268 | 0.019 | / |
| | State3&5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | 0.00 | 0.014 | 21.83 | 22.60 | 1.194 | 0.017 | / |
| | State3&5 | | | Right Edge | 10 | 349000 | 1745 | 106 | 1 | 1 | 0.16 | 0.081 | 21.57 | 22.60 | 1.268 | 0.103 | / |
| | State3&5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | -0.10 | 0.079 | 21.83 | 22.60 | 1.194 | 0.094 | / |
| | State3&5 | | | Top Edge | 10 | 349000 | 1745 | 106 | 1 | 1 | -0.15 | 0.221 | 21.57 | 22.60 | 1.268 | 0.280 | / |
| | State3&5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | -0.07 | 0.219 | 21.83 | 22.60 | 1.194 | 0.261 | / |
| | State3&5 | | | Bottom Edge | 10 | 349000 | 1745 | 106 | 1 | 1 | 0.10 | 0.016 | 21.57 | 22.60 | 1.268 | 0.020 | / |
| | State3&5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | -0.01 | 0.018 | 21.83 | 22.60 | 1.194 | 0.021 | / |
| Ant.4 | State3&5 | DFT-s-OFDM BPSK | NSA | Front Side | 10 | 349000 | 1745 | 106 | 1 | 1 | -0.18 | 0.043 | 19.03 | 19.60 | 1.140 | 0.049 | / |
| | State3&5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | 0.16 | 0.045 | 19.32 | 19.60 | 1.067 | 0.048 | / |
| | State3&5 | | | Back Side | 10 | 349000 | 1745 | 106 | 1 | 1 | -0.17 | 0.071 | 19.03 | 19.60 | 1.140 | 0.081 | / |
| | State3&5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | -0.18 | 0.068 | 19.32 | 19.60 | 1.067 | 0.073 | / |
| | State3&5 | | | Left Edge | 10 | 349000 | 1745 | 106 | 1 | 1 | -0.06 | 0.006 | 19.03 | 19.60 | 1.140 | 0.007 | / |
| | State3&5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | 0.00 | 0.007 | 19.32 | 19.60 | 1.067 | 0.007 | / |
| | State3&5 | | | Right Edge | 10 | 349000 | 1745 | 106 | 1 | 1 | 0.16 | 0.046 | 19.03 | 19.60 | 1.140 | 0.052 | / |
| | State3&5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | -0.10 | 0.045 | 19.32 | 19.60 | 1.067 | 0.048 | / |
| | State3&5 | | | Top Edge | 10 | 349000 | 1745 | 106 | 1 | 1 | -0.15 | 0.106 | 19.03 | 19.60 | 1.140 | 0.121 | / |
| | State3&5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | -0.07 | 0.101 | 19.32 | 19.60 | 1.067 | 0.108 | / |
| | State3&5 | | | Bottom Edge | 10 | 349000 | 1745 | 106 | 1 | 1 | 0.10 | 0.006 | 19.03 | 19.60 | 1.140 | 0.007 | / |
| | State3&5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | -0.01 | 0.005 | 19.32 | 19.60 | 1.067 | 0.005 | / |
| Ant.3 | State1&3&5 | DFT-s-OFDM BPSK | SA | Front Side | 10 | 349000 | 1745 | 106 | 1 | 1 | 0.01 | 0.359 | 20.39 | 21.70 | 1.352 | 0.485 | / |
| | State1&3&5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | -0.13 | 0.365 | 20.44 | 21.70 | 1.337 | 0.488 | / |
| | State1&3&5 | | | Back Side | 10 | 349000 | 1745 | 106 | 1 | 1 | 0.17 | 0.384 | 20.39 | 21.70 | 1.352 | 0.519 | / |
| | State1&3&5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | -0.03 | 0.377 | 20.44 | 21.70 | 1.337 | 0.504 | / |
| | State1&3&5 | | | Left Edge | 10 | 349000 | 1745 | 106 | 1 | 1 | 0.03 | 0.140 | 20.39 | 21.70 | 1.352 | 0.189 | / |
| | State1&3&5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | 0.03 | 0.143 | 20.44 | 21.70 | 1.337 | 0.191 | / |
| | State1&3&5 | | | Right Edge | 10 | 349000 | 1745 | 106 | 1 | 1 | -0.03 | 0.033 | 20.39 | 21.70 | 1.352 | 0.045 | / |
| | State1&3&5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | -0.15 | 0.035 | 20.44 | 21.70 | 1.337 | 0.047 | / |
| | State1&3&5 | | | Top Edge | 10 | 349000 | 1745 | 106 | 1 | 1 | 0.17 | 0.030 | 20.39 | 21.70 | 1.352 | 0.041 | / |
| | State1&3&5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | 0.17 | 0.020 | 20.44 | 21.70 | 1.337 | 0.027 | / |
| | State1&3&5 | | | Bottom Edge | 10 | 349000 | 1745 | 106 | 1 | 1 | 0.10 | 0.522 | 20.39 | 21.70 | 1.352 | 0.706 | / |
| | State1&3&5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | -0.01 | 0.548 | 20.44 | 21.70 | 1.337 | **0.733** | 72# |
| Ant.3 | State1&3 | DFT-s-OFDM BPSK | NSA | Front Side | 10 | 349000 | 1745 | 106 | 1 | 53 | 0.01 | 0.359 | 20.39 | 21.20 | 1.205 | 0.433 | / |
| | State1&3 | | | | 10 | 346000 | 1730 | 106 | 50 | 0 | -0.13 | 0.365 | 20.63 | 21.20 | 1.140 | 0.416 | / |
| | State1&3 | | | Back Side | 10 | 349000 | 1745 | 106 | 1 | 53 | 0.17 | 0.384 | 20.39 | 21.20 | 1.205 | 0.463 | / |
| | State1&3 | | | | 10 | 346000 | 1730 | 106 | 50 | 0 | -0.03 | 0.377 | 20.63 | 21.20 | 1.140 | 0.430 | / |
| | State1&3 | | | Left Edge | 10 | 349000 | 1745 | 106 | 1 | 53 | 0.03 | 0.140 | 20.39 | 21.20 | 1.205 | 0.169 | / |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | State1&3 | | | | 10 | 346000 | 1730 | 106 | 50 | 0 | 0.03 | 0.143 | 20.63 | 21.20 | 1.140 | 0.163 | / |
| | State1&3 | | | Right Edge | 10 | 349000 | 1745 | 106 | 1 | 53 | -0.03 | 0.033 | 20.39 | 21.20 | 1.205 | 0.040 | / |
| | State1&3 | | | | 10 | 346000 | 1730 | 106 | 50 | 0 | -0.15 | 0.035 | 20.63 | 21.20 | 1.140 | 0.040 | / |
| | State1&3 | | | Top Edge | 10 | 349000 | 1745 | 106 | 1 | 53 | 0.17 | 0.030 | 20.39 | 21.20 | 1.205 | 0.036 | / |
| | State1&3 | | | | 10 | 346000 | 1730 | 106 | 50 | 0 | 0.17 | 0.020 | 20.63 | 21.20 | 1.140 | 0.023 | / |
| | State1&3 | | | Bottom Edge | 10 | 349000 | 1745 | 106 | 1 | 53 | 0.10 | 0.522 | 20.39 | 21.20 | 1.205 | 0.629 | / |
| | State1&3 | | | | 10 | 346000 | 1730 | 106 | 50 | 0 | -0.01 | 0.548 | 20.63 | 21.20 | 1.140 | 0.625 | / |
| Ant.3 | State5 | DFT-s-OFDM BPSK | NSA | Front Side | 10 | 349000 | 1745 | 106 | 1 | 1 | 0.06 | 0.180 | 18.38 | 18.70 | 1.076 | 0.194 | / |
| | State5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | -0.13 | 0.194 | 18.62 | 18.70 | 1.019 | 0.198 | / |
| | State5 | | | Back Side | 10 | 349000 | 1745 | 106 | 1 | 1 | -0.16 | 0.193 | 18.38 | 18.70 | 1.076 | 0.208 | / |
| | State5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | -0.16 | 0.204 | 18.62 | 18.70 | 1.019 | 0.208 | / |
| | State5 | | | Left Edge | 10 | 349000 | 1745 | 106 | 1 | 1 | 0.14 | 0.070 | 18.38 | 18.70 | 1.076 | 0.075 | / |
| | State5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | 0.11 | 0.075 | 18.62 | 18.70 | 1.019 | 0.076 | / |
| | State5 | | | Right Edge | 10 | 349000 | 1745 | 106 | 1 | 1 | 0.13 | 0.017 | 18.38 | 18.70 | 1.076 | 0.018 | / |
| | State5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | -0.15 | 0.017 | 18.62 | 18.70 | 1.019 | 0.017 | / |
| | State5 | | | Top Edge | 10 | 349000 | 1745 | 106 | 1 | 1 | -0.10 | 0.000 | 18.38 | 18.70 | 1.076 | 0.000 | / |
| | State5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | -0.18 | 0.000 | 18.62 | 18.70 | 1.019 | 0.000 | / |
| | State5 | | | Bottom Edge | 10 | 349000 | 1745 | 106 | 1 | 1 | 0.05 | 0.358 | 18.38 | 18.70 | 1.076 | 0.385 | / |
| | State5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | -0.02 | 0.387 | 18.62 | 18.70 | 1.019 | 0.394 | / |
| Ant.1 | State1&3 | DFT-s-OFDM BPSK | NSA | Front Side | 10 | 349000 | 1745 | 106 | 1 | 1 | -0.02 | 0.117 | 22.92 | 24.20 | 1.343 | 0.157 | / |
| | State1&3 | | | | 10 | 346000 | 1730 | 106 | 50 | 0 | -0.18 | 0.084 | 22.91 | 24.20 | 1.346 | 0.113 | / |
| | State1&3 | | | Back Side | 10 | 349000 | 1745 | 106 | 1 | 1 | -0.15 | 0.160 | 22.92 | 24.20 | 1.343 | 0.215 | / |
| | State1&3 | | | | 10 | 346000 | 1730 | 106 | 50 | 0 | 0.02 | 0.118 | 22.91 | 24.20 | 1.346 | 0.159 | / |
| | State1&3 | | | Left Edge | 10 | 349000 | 1745 | 106 | 1 | 1 | -0.15 | 0.009 | 22.92 | 24.20 | 1.343 | 0.012 | / |
| | State1&3 | | | | 10 | 346000 | 1730 | 106 | 50 | 0 | 0.04 | 0.008 | 22.91 | 24.20 | 1.346 | 0.011 | / |
| | State1&3 | | | Right Edge | 10 | 349000 | 1745 | 106 | 1 | 1 | 0.02 | 0.341 | 22.92 | 24.20 | 1.343 | 0.458 | / |
| | State1&3 | | | | 10 | 346000 | 1730 | 106 | 50 | 0 | -0.12 | 0.254 | 22.91 | 24.20 | 1.346 | 0.342 | / |
| | State1&3 | | | Top Edge | 10 | 349000 | 1745 | 106 | 1 | 1 | -0.09 | 0.016 | 22.92 | 24.20 | 1.343 | 0.021 | / |
| | State1&3 | | | | 10 | 346000 | 1730 | 106 | 50 | 0 | 0.02 | 0.015 | 22.91 | 24.20 | 1.346 | 0.020 | / |
| | State1&3 | | | Bottom Edge | 10 | 349000 | 1745 | 106 | 1 | 1 | 0.12 | 0.004 | 22.92 | 24.20 | 1.343 | 0.005 | / |
| | State1&3 | | | | 10 | 346000 | 1730 | 106 | 50 | 0 | 0.04 | 0.003 | 22.91 | 24.20 | 1.346 | 0.004 | / |
| Ant.1 | State5 | DFT-s-OFDM BPSK | NSA | Front Side | 10 | 349000 | 1745 | 106 | 1 | 1 | -0.02 | 0.081 | 21.32 | 21.70 | 1.091 | 0.088 | / |
| | State5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | -0.18 | 0.062 | 21.53 | 21.70 | 1.040 | 0.064 | / |
| | State5 | | | Back Side | 10 | 349000 | 1745 | 106 | 1 | 1 | -0.10 | 0.106 | 21.32 | 21.70 | 1.091 | 0.116 | / |
| | State5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | -0.02 | 0.095 | 21.53 | 21.70 | 1.040 | 0.099 | / |
| | State5 | | | Left Edge | 10 | 349000 | 1745 | 106 | 1 | 1 | -0.13 | 0.004 | 21.32 | 21.70 | 1.091 | 0.004 | / |
| | State5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | 0.19 | 0.003 | 21.53 | 21.70 | 1.040 | 0.003 | / |
| | State5 | | | Right Edge | 10 | 349000 | 1745 | 106 | 1 | 1 | 0.15 | 0.233 | 21.32 | 21.70 | 1.091 | 0.254 | / |
| | State5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | 0.13 | 0.206 | 21.53 | 21.70 | 1.040 | 0.214 | / |
| | State5 | | | Top Edge | 10 | 349000 | 1745 | 106 | 1 | 1 | 0.16 | 0.013 | 21.32 | 21.70 | 1.091 | 0.014 | / |
| | State5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | -0.05 | 0.012 | 21.53 | 21.70 | 1.040 | 0.012 | / |
| | State5 | | | Bottom Edge | 10 | 349000 | 1745 | 106 | 1 | 1 | 0.05 | 0.002 | 21.32 | 21.70 | 1.091 | 0.002 | / |
| | State5 | | | | 10 | 349000 | 1745 | 106 | 50 | 0 | 0.10 | 0.003 | 21.53 | 21.70 | 1.040 | 0.003 | / |

Note: Refer to ANNEX C for the detailed test data for each test configuration.

| Antenna | Power Reduction | Mode | Information | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB UL | RB Num. | RB Start | Power Drift (dB) | 10g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 10g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Specific** | | | | | | | | | | | | | | | | | |
| Ant.3 | State1&3&5 | DFT-s-OFDM BPSK | SA | Bottom Edge | 0 | 349000 | 1745 | 106 | 1 | 1 | 0.06 | 1.280 | 20.39 | 21.70 | 1.352 | 1.731 | / |
| | State1&3&5 | | | | 0 | 349000 | 1745 | 106 | 50 | 0 | 0.03 | 1.310 | 20.44 | 21.70 | 1.337 | **1.751** | 73# |

Note: Refer to ANNEX C for the detailed test data for each test configuration.

## 11.22 WIFI 2.4GHz

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | Power Drift (dB) | 1g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | Duty Cycle (%) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head** | | | | | | | | | | | | | | | |
| Ant.8(CH0) | Level1&2 | 802.11 b | Left Cheek | 0 | 6 | 2437 | 0.02 | 0.712 | 16.89 | 17.00 | 1.026 | 99.01 | 1.010 | 0.738 | / |
| | Level1&2 | | Left Tilt | 0 | 6 | 2437 | 0.12 | 0.598 | 16.89 | 17.00 | 1.026 | 99.01 | 1.010 | 0.620 | / |
| | Level1&2 | | Right Cheek | 0 | 6 | 2437 | -0.11 | 0.397 | 16.89 | 17.00 | 1.026 | 99.01 | 1.010 | 0.411 | / |
| | Level1&2 | | Right Tilt | 0 | 6 | 2437 | 0.03 | 0.461 | 16.89 | 17.00 | 1.026 | 99.01 | 1.010 | 0.478 | / |
| Ant.8(CH0) | Level3 | 802.11 b | Left Cheek | 0 | 11 | 2462 | 0.10 | 0.534 | 15.95 | 16.00 | 1.012 | 99.01 | 1.010 | 0.546 | / |
| | Level3 | | Left Tilt | 0 | 11 | 2462 | -0.18 | 0.466 | 15.95 | 16.00 | 1.012 | 99.01 | 1.010 | 0.476 | / |
| | Level3 | | Right Cheek | 0 | 11 | 2462 | 0.17 | 0.312 | 15.95 | 16.00 | 1.012 | 99.01 | 1.010 | 0.319 | / |
| | Level3 | | Right Tilt | 0 | 11 | 2462 | -0.16 | 0.388 | 15.95 | 16.00 | 1.012 | 99.01 | 1.010 | 0.397 | / |
| Ant.8(CH0) | Level4 | 802.11 b | Left Cheek | 0 | 6 | 2437 | 0.15 | 0.345 | 14.47 | 14.50 | 1.007 | 99.01 | 1.010 | 0.351 | / |
| | Level4 | | Left Tilt | 0 | 6 | 2437 | -0.10 | 0.311 | 14.47 | 14.50 | 1.007 | 99.01 | 1.010 | 0.316 | / |
| | Level4 | | Right Cheek | 0 | 6 | 2437 | -0.08 | 0.206 | 14.47 | 14.50 | 1.007 | 99.01 | 1.010 | 0.210 | / |
| | Level4 | | Right Tilt | 0 | 6 | 2437 | 0.18 | 0.271 | 14.47 | 14.50 | 1.007 | 99.01 | 1.010 | 0.276 | / |
| Ant.2(CH1) | Level1&2 | 802.11 b | Left Cheek | 0 | 1 | 2412 | 0.07 | 0.112 | 16.76 | 17.00 | 1.057 | 99.01 | 1.010 | 0.120 | / |
| | Level1&2 | | Left Tilt | 0 | 1 | 2412 | 0.11 | 0.011 | 16.76 | 17.00 | 1.057 | 99.01 | 1.010 | 0.012 | / |
| | Level1&2 | | Right Cheek | 0 | 1 | 2412 | 0.02 | 0.342 | 16.76 | 17.00 | 1.057 | 99.01 | 1.010 | 0.365 | / |
| | Level1&2 | | Right Tilt | 0 | 1 | 2412 | -0.14 | 0.012 | 16.76 | 17.00 | 1.057 | 99.01 | 1.010 | 0.013 | / |
| Ant.2(CH1) | Level3 | 802.11 b | Left Cheek | 0 | 1 | 2412 | 0.15 | 0.091 | 15.82 | 16.00 | 1.042 | 99.01 | 1.010 | 0.096 | / |
| | Level3 | | Left Tilt | 0 | 1 | 2412 | -0.12 | 0.006 | 15.82 | 16.00 | 1.042 | 99.01 | 1.010 | 0.006 | / |
| | Level3 | | Right Cheek | 0 | 1 | 2412 | 0.07 | 0.266 | 15.82 | 16.00 | 1.042 | 99.01 | 1.010 | 0.280 | / |
| | Level3 | | Right Tilt | 0 | 1 | 2412 | -0.19 | 0.006 | 15.82 | 16.00 | 1.042 | 99.01 | 1.010 | 0.006 | / |
| Ant.2(CH1) | Level4 | 802.11 b | Left Cheek | 0 | 11 | 2462 | 0.13 | 0.064 | 13.82 | 14.50 | 1.169 | 99.01 | 1.010 | 0.076 | / |
| | Level4 | | Left Tilt | 0 | 11 | 2462 | 0.15 | 0.004 | 13.82 | 14.50 | 1.169 | 99.01 | 1.010 | 0.005 | / |
| | Level4 | | Right Cheek | 0 | 11 | 2462 | 0.03 | 0.188 | 13.82 | 14.50 | 1.169 | 99.01 | 1.010 | 0.222 | / |
| | Level4 | | Right Tilt | 0 | 11 | 2462 | -0.03 | 0.004 | 13.82 | 14.50 | 1.169 | 99.01 | 1.010 | 0.005 | / |
| Ant.8(CH0)& Ant.2(CH1) | Level1&2 | 802.11 b | Left Cheek | 0 | 1 | 2412 | 0.01 | 1.030 | 19.86 | 20.00 | 1.033 | 99.01 | 1.010 | **1.075** | 74# |
| | Level1&2 | | Left Tilt | 0 | 1 | 2412 | 0.13 | 0.758 | 19.86 | 20.00 | 1.033 | 99.01 | 1.010 | 0.791 | / |
| | Level1&2 | | Right Cheek | 0 | 1 | 2412 | 0.07 | 0.444 | 19.86 | 20.00 | 1.033 | 99.01 | 1.010 | 0.463 | / |
| | Level1&2 | | Right Tilt | 0 | 1 | 2412 | -0.19 | 0.535 | 19.86 | 20.00 | 1.033 | 99.01 | 1.010 | 0.558 | / |
| | Level1&2 | | Left Cheek | 0 | 1 | 2412 | -0.07 | 0.938 | 19.86 | 20.00 | 1.033 | 99.01 | 1.010 | 0.979 | / |
| | Level1&2 | | Left Cheek | 0 | 1 | 2412 | 0.15 | 0.865 | 19.86 | 20.00 | 1.033 | 99.01 | 1.010 | 0.902 | / |
| Ant.8(CH0)& Ant.2(CH1) | Level3 | 802.11 b | Left Cheek | 0 | 11 | 2462 | 0.19 | 0.745 | 18.87 | 19.00 | 1.030 | 99.01 | 1.010 | 0.775 | / |
| | Level3 | | Left Tilt | 0 | 11 | 2462 | -0.09 | 0.556 | 18.87 | 19.00 | 1.030 | 99.01 | 1.010 | 0.578 | / |
| | Level3 | | Right Cheek | 0 | 11 | 2462 | 0.02 | 0.306 | 18.87 | 19.00 | 1.030 | 99.01 | 1.010 | 0.318 | / |
| | Level3 | | Right Tilt | 0 | 11 | 2462 | 0.16 | 0.411 | 18.87 | 19.00 | 1.030 | 99.01 | 1.010 | 0.428 | / |
| Ant.8(CH0)& Ant.2(CH1) | Level4 | 802.11 b | Left Cheek | 0 | 11 | 2462 | -0.04 | 0.534 | 17.5 | 17.50 | 1.000 | 99.01 | 1.010 | 0.539 | / |
| | Level4 | | Left Tilt | 0 | 11 | 2462 | -0.06 | 0.388 | 17.5 | 17.50 | 1.000 | 99.01 | 1.010 | 0.392 | / |
| | Level4 | | Right Cheek | 0 | 11 | 2462 | -0.09 | 0.223 | 17.5 | 17.50 | 1.000 | 99.01 | 1.010 | 0.225 | / |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Level4 | | Right Tilt | 0 | 11 | 2462 | -0.17 | 0.284 | 17.5 | 17.50 | 1.000 | 99.01 | 1.010 | 0.287 | / |
| **Body-worn** | | | | | | | | | | | | | | | |
| Ant.8(CH0) | Level5&6 | 802.11 b | Front Side | 15 | 11 | 2462 | 0.08 | 0.082 | 17.17 | 18.50 | 1.358 | 99.01 | 1.010 | 0.112 | / |
| | Level5&6 | | Back Side | 15 | 11 | 2462 | -0.12 | 0.086 | 17.17 | 18.50 | 1.358 | 99.01 | 1.010 | 0.118 | / |
| Ant.8(CH0) | Level7 | 802.11 b | Front Side | 15 | 11 | 2462 | -0.08 | 0.041 | 15.95 | 16.00 | 1.012 | 99.01 | 1.010 | 0.042 | / |
| | Level7 | | Back Side | 15 | 11 | 2462 | -0.11 | 0.053 | 15.95 | 16.00 | 1.012 | 99.01 | 1.010 | 0.054 | / |
| Ant.8(CH0) | Level8 | 802.11 b | Front Side | 15 | 6 | 2437 | 0.13 | 0.026 | 12.71 | 13.00 | 1.069 | 99.01 | 1.010 | 0.028 | / |
| | Level8 | | Back Side | 15 | 6 | 2437 | 0.15 | 0.025 | 12.71 | 13.00 | 1.069 | 99.01 | 1.010 | 0.027 | / |
| Ant.2(CH1) | Level5&6 | 802.11 b | Front Side | 15 | 1 | 2412 | -0.12 | 0.061 | 18.37 | 18.50 | 1.030 | 99.01 | 1.010 | 0.063 | / |
| | Level5&6 | | Back Side | 15 | 1 | 2412 | 0.10 | 0.069 | 18.37 | 18.50 | 1.030 | 99.01 | 1.010 | 0.072 | / |
| Ant.2(CH1) | Level7 | 802.11 b | Front Side | 15 | 6 | 2437 | 0.16 | 0.038 | 15.82 | 16.00 | 1.042 | 99.01 | 1.010 | 0.040 | / |
| | Level7 | | Back Side | 15 | 6 | 2437 | -0.18 | 0.046 | 15.82 | 16.00 | 1.042 | 99.01 | 1.010 | 0.048 | / |
| Ant.2(CH1) | Level8 | 802.11 b | Front Side | 15 | 11 | 2462 | -0.18 | 0.021 | 12.97 | 13.00 | 1.007 | 99.01 | 1.010 | 0.021 | / |
| | Level8 | | Back Side | 15 | 11 | 2462 | -0.03 | 0.029 | 12.97 | 13.00 | 1.007 | 99.01 | 1.010 | 0.029 | / |
| Ant.8(CH0)& | Level5&6 | 802.11 b | Front Side | 15 | 6 | 2437 | -0.04 | 0.107 | 20.32 | 21.50 | 1.312 | 99.01 | 1.010 | 0.142 | / |
| Ant.2(CH1) | Level5&6 | | Back Side | 15 | 6 | 2437 | -0.02 | 0.116 | 20.32 | 21.50 | 1.312 | 99.01 | 1.010 | **0.154** | 75# |
| Ant.8(CH0)& | Level7 | 802.11 b | Front Side | 15 | 11 | 2462 | -0.02 | 0.055 | 18.93 | 19.00 | 1.016 | 99.01 | 1.010 | 0.056 | / |
| Ant.2(CH1) | Level7 | | Back Side | 15 | 11 | 2462 | 0.00 | 0.069 | 18.93 | 19.00 | 1.016 | 99.01 | 1.010 | 0.071 | / |
| Ant.8(CH0)& | Level8 | 802.11 b | Front Side | 15 | 11 | 2462 | -0.12 | 0.031 | 15.61 | 16.00 | 1.094 | 99.01 | 1.010 | 0.034 | / |
| Ant.2(CH1) | Level8 | | Back Side | 15 | 11 | 2462 | 0.03 | 0.044 | 15.61 | 16.00 | 1.094 | 99.01 | 1.010 | 0.049 | / |
| **Hotspot** | | | | | | | | | | | | | | | |
| Ant.8(CH0) | Level5&6 | 802.11 b | Front Side | 10 | 11 | 2462 | -0.06 | 0.141 | 17.17 | 18.50 | 1.358 | 99.01 | 1.010 | 0.193 | / |
| | Level5&6 | | Back Side | 10 | 11 | 2462 | 0.19 | 0.163 | 17.17 | 18.50 | 1.358 | 99.01 | 1.010 | 0.224 | / |
| | Level5&6 | | Left Edge | 10 | 11 | 2462 | 0.17 | 0.096 | 17.17 | 18.50 | 1.358 | 99.01 | 1.010 | 0.132 | / |
| | Level5&6 | | Right Edge | 10 | 11 | 2462 | -0.13 | 0.012 | 17.17 | 18.50 | 1.358 | 99.01 | 1.010 | 0.016 | / |
| | Level5&6 | | Top Edge | 10 | 11 | 2462 | -0.05 | 0.293 | 17.17 | 18.50 | 1.358 | 99.01 | 1.010 | 0.402 | / |
| | Level5&6 | | Bottom Edge | 10 | 11 | 2462 | -0.18 | 0.007 | 17.17 | 18.50 | 1.358 | 99.01 | 1.010 | 0.010 | / |
| Ant.8(CH0) | Level7 | 802.11 b | Front Side | 10 | 11 | 2462 | 0.19 | 0.075 | 15.95 | 16.00 | 1.012 | 99.01 | 1.010 | 0.077 | / |
| | Level7 | | Back Side | 10 | 11 | 2462 | -0.05 | 0.073 | 15.95 | 16.00 | 1.012 | 99.01 | 1.010 | 0.075 | / |
| | Level7 | | Left Edge | 10 | 11 | 2462 | 0.06 | 0.056 | 15.95 | 16.00 | 1.012 | 99.01 | 1.010 | 0.057 | / |
| | Level7 | | Right Edge | 10 | 11 | 2462 | -0.09 | 0.023 | 15.95 | 16.00 | 1.012 | 99.01 | 1.010 | 0.024 | / |
| | Level7 | | Top Edge | 10 | 11 | 2462 | 0.19 | 0.171 | 15.95 | 16.00 | 1.012 | 99.01 | 1.010 | 0.175 | / |
| | Level7 | | Bottom Edge | 10 | 11 | 2462 | 0.09 | 0.012 | 15.95 | 16.00 | 1.012 | 99.01 | 1.010 | 0.012 | / |
| Ant.8(CH0) | Level8 | 802.11 b | Front Side | 10 | 6 | 2437 | 0.16 | 0.045 | 12.71 | 13.00 | 1.069 | 99.01 | 1.010 | 0.049 | / |
| | Level8 | | Back Side | 10 | 6 | 2437 | 0.05 | 0.052 | 12.71 | 13.00 | 1.069 | 99.01 | 1.010 | 0.056 | / |
| | Level8 | | Left Edge | 10 | 6 | 2437 | 0.01 | 0.031 | 12.71 | 13.00 | 1.069 | 99.01 | 1.010 | 0.033 | / |
| | Level8 | | Right Edge | 10 | 6 | 2437 | -0.01 | 0.006 | 12.71 | 13.00 | 1.069 | 99.01 | 1.010 | 0.006 | / |
| | Level8 | | Top Edge | 10 | 6 | 2437 | 0.14 | 0.081 | 12.71 | 13.00 | 1.069 | 99.01 | 1.010 | 0.087 | / |
| | Level8 | | Bottom Edge | 10 | 6 | 2437 | 0.08 | 0.011 | 12.71 | 13.00 | 1.069 | 99.01 | 1.010 | 0.012 | / |
| Ant.2(CH1) | Level5&6 | 802.11 b | Front Side | 10 | 1 | 2412 | -0.17 | 0.104 | 18.37 | 18.50 | 1.030 | 99.01 | 1.010 | 0.108 | / |
| | Level5&6 | | Back Side | 10 | 1 | 2412 | 0.02 | 0.108 | 18.37 | 18.50 | 1.030 | 99.01 | 1.010 | 0.112 | / |
| | Level5&6 | | Left Edge | 10 | 1 | 2412 | -0.07 | 0.309 | 18.37 | 18.50 | 1.030 | 99.01 | 1.010 | 0.321 | / |
| | Level5&6 | | Right Edge | 10 | 1 | 2412 | 0.07 | 0.023 | 18.37 | 18.50 | 1.030 | 99.01 | 1.010 | 0.024 | / |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Level5&6 | | Top Edge | 10 | 1 | 2412 | 0.13 | 0.013 | 18.37 | 18.50 | 1.030 | 99.01 | 1.010 | 0.014 | / |
| | Level5&6 | | Bottom Edge | 10 | 1 | 2412 | 0.01 | 0.015 | 18.37 | 18.50 | 1.030 | 99.01 | 1.010 | 0.016 | / |
| Ant.2(CH1) | Level7 | 802.11 b | Front Side | 10 | 6 | 2437 | 0.10 | 0.055 | 15.82 | 16.00 | 1.042 | 99.01 | 1.010 | 0.058 | / |
| | Level7 | | Back Side | 10 | 6 | 2437 | 0.06 | 0.063 | 15.82 | 16.00 | 1.042 | 99.01 | 1.010 | 0.066 | / |
| | Level7 | | Left Edge | 10 | 6 | 2437 | -0.09 | 0.166 | 15.82 | 16.00 | 1.042 | 99.01 | 1.010 | 0.175 | / |
| | Level7 | | Right Edge | 10 | 6 | 2437 | 0.17 | 0.016 | 15.82 | 16.00 | 1.042 | 99.01 | 1.010 | 0.017 | / |
| | Level7 | | Top Edge | 10 | 6 | 2437 | 0.18 | 0.005 | 15.82 | 16.00 | 1.042 | 99.01 | 1.010 | 0.005 | / |
| | Level7 | | Bottom Edge | 10 | 6 | 2437 | -0.05 | 0.006 | 15.82 | 16.00 | 1.042 | 99.01 | 1.010 | 0.006 | / |
| Ant.2(CH1) | Level8 | 802.11 b | Front Side | 10 | 11 | 2462 | 0.13 | 0.023 | 12.97 | 13.00 | 1.007 | 99.01 | 1.010 | 0.023 | / |
| | Level8 | | Back Side | 10 | 11 | 2462 | -0.05 | 0.031 | 12.97 | 13.00 | 1.007 | 99.01 | 1.010 | 0.032 | / |
| | Level8 | | Left Edge | 10 | 11 | 2462 | -0.03 | 0.082 | 12.97 | 13.00 | 1.007 | 99.01 | 1.010 | 0.083 | / |
| | Level8 | | Right Edge | 10 | 11 | 2462 | -0.03 | 0.006 | 12.97 | 13.00 | 1.007 | 99.01 | 1.010 | 0.006 | / |
| | Level8 | | Top Edge | 10 | 11 | 2462 | -0.16 | 0.002 | 12.97 | 13.00 | 1.007 | 99.01 | 1.010 | 0.002 | / |
| | Level8 | | Bottom Edge | 10 | 11 | 2462 | -0.10 | 0.001 | 12.97 | 13.00 | 1.007 | 99.01 | 1.010 | 0.001 | / |
| Ant.8(CH0)& Ant.2(CH1) | Level5&6 | 802.11 b | Front Side | 10 | 6 | 2437 | 0.03 | 0.165 | 20.32 | 21.50 | 1.312 | 99.01 | 1.010 | 0.219 | / |
| | Level5&6 | | Back Side | 10 | 6 | 2437 | -0.18 | 0.182 | 20.32 | 21.50 | 1.312 | 99.01 | 1.010 | 0.241 | / |
| | Level5&6 | | Left Edge | 10 | 6 | 2437 | 0.06 | 0.441 | 20.32 | 21.50 | 1.312 | 99.01 | 1.010 | **0.584** | 76# |
| | Level5&6 | | Right Edge | 10 | 6 | 2437 | 0.06 | 0.012 | 20.32 | 21.50 | 1.312 | 99.01 | 1.010 | 0.016 | / |
| | Level5&6 | | Top Edge | 10 | 6 | 2437 | -0.15 | 0.288 | 20.32 | 21.50 | 1.312 | 99.01 | 1.010 | 0.382 | / |
| | Level5&6 | | Bottom Edge | 10 | 6 | 2437 | 0.14 | 0.005 | 20.32 | 21.50 | 1.312 | 99.01 | 1.010 | 0.007 | / |
| Ant.8(CH0)& Ant.2(CH1) | Level7 | 802.11 b | Front Side | 10 | 11 | 2462 | -0.03 | 0.121 | 18.93 | 19.00 | 1.016 | 99.01 | 1.010 | 0.124 | / |
| | Level7 | | Back Side | 10 | 11 | 2462 | -0.18 | 0.132 | 18.93 | 19.00 | 1.016 | 99.01 | 1.010 | 0.135 | / |
| | Level7 | | Left Edge | 10 | 11 | 2462 | -0.11 | 0.306 | 18.93 | 19.00 | 1.016 | 99.01 | 1.010 | 0.314 | / |
| | Level7 | | Right Edge | 10 | 11 | 2462 | -0.14 | 0.006 | 18.93 | 19.00 | 1.016 | 99.01 | 1.010 | 0.006 | / |
| | Level7 | | Top Edge | 10 | 11 | 2462 | -0.02 | 0.185 | 18.93 | 19.00 | 1.016 | 99.01 | 1.010 | 0.190 | / |
| | Level7 | | Bottom Edge | 10 | 11 | 2462 | 0.09 | 0.003 | 18.93 | 19.00 | 1.016 | 99.01 | 1.010 | 0.003 | / |
| Ant.8(CH0)& Ant.2(CH1) | Level8 | 802.11 b | Front Side | 10 | 11 | 2462 | -0.11 | 0.063 | 15.61 | 16.00 | 1.094 | 99.01 | 1.010 | 0.070 | / |
| | Level8 | | Back Side | 10 | 11 | 2462 | 0.15 | 0.065 | 15.61 | 16.00 | 1.094 | 99.01 | 1.010 | 0.072 | / |
| | Level8 | | Left Edge | 10 | 11 | 2462 | 0.02 | 0.161 | 15.61 | 16.00 | 1.094 | 99.01 | 1.010 | 0.178 | / |
| | Level8 | | Right Edge | 10 | 11 | 2462 | -0.01 | 0.003 | 15.61 | 16.00 | 1.094 | 99.01 | 1.010 | 0.003 | / |
| | Level8 | | Top Edge | 10 | 11 | 2462 | 0.07 | 0.085 | 15.61 | 16.00 | 1.094 | 99.01 | 1.010 | 0.094 | / |
| | Level8 | | Bottom Edge | 10 | 11 | 2462 | 0.19 | 0.001 | 15.61 | 16.00 | 1.094 | 99.01 | 1.010 | 0.001 | / |

Note: Refer to ANNEX C for the detailed test data for each test configuration.

## 11.23 WIFI 5GHz

| Antenna | Band | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | Power Drift (dB) | 1g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | Duty Cycle (%) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head** | | | | | | | | | | | | | | | | |
| Ant.2(CH0) | 5.3G | Level1&2&3 | 802.11n (HT40) | Left Cheek | 0 | 54 | 5270 | -0.01 | 0.312 | 17.47 | 19.00 | 1.422 | 93.42 | 1.070 | 0.475 | / |
| | | Level1&2&3 | | Left Tilt | 0 | 54 | 5270 | -0.19 | 0.272 | 17.47 | 19.00 | 1.422 | 93.42 | 1.070 | 0.414 | / |
| | | Level1&2&3 | | Right Cheek | 0 | 54 | 5270 | 0.19 | 0.311 | 17.47 | 19.00 | 1.422 | 93.42 | 1.070 | 0.473 | / |
| | | Level1&2&3 | | Right Tilt | 0 | 54 | 5270 | -0.15 | 0.099 | 17.47 | 19.00 | 1.422 | 93.42 | 1.070 | 0.151 | / |
| | | Level4 | 802.11n (HT40) | Left Cheek | 0 | 54 | 5270 | 0.03 | 0.151 | 13.56 | 14.50 | 1.242 | 93.42 | 1.070 | 0.201 | / |
| | | Level4 | | Left Tilt | 0 | 54 | 5270 | 0.10 | 0.081 | 13.56 | 14.50 | 1.242 | 93.42 | 1.070 | 0.108 | / |
| | | Level4 | | Right Cheek | 0 | 54 | 5270 | -0.09 | 0.131 | 13.56 | 14.50 | 1.242 | 93.42 | 1.070 | 0.174 | / |
| | | Level4 | | Right Tilt | 0 | 54 | 5270 | 0.16 | 0.035 | 13.56 | 14.50 | 1.242 | 93.42 | 1.070 | 0.047 | / |
| Ant.7(CH1) | | Level1&2&3 | 802.11n (HT40) | Left Cheek | 0 | 54 | 5270 | 0.17 | 0.188 | 17.78 | 19.00 | 1.324 | 93.42 | 1.070 | 0.266 | / |
| | | Level1&2&3 | | Left Tilt | 0 | 54 | 5270 | -0.16 | 0.166 | 17.78 | 19.00 | 1.324 | 93.42 | 1.070 | 0.235 | / |
| | | Level1&2&3 | | Right Cheek | 0 | 54 | 5270 | 0.12 | 0.205 | 17.78 | 19.00 | 1.324 | 93.42 | 1.070 | 0.290 | / |
| | | Level1&2&3 | | Right Tilt | 0 | 54 | 5270 | -0.07 | 0.242 | 17.78 | 19.00 | 1.324 | 93.42 | 1.070 | 0.343 | / |
| | | Level4 | 802.11n (HT40) | Left Cheek | 0 | 54 | 5270 | -0.13 | 0.075 | 13.6 | 14.50 | 1.230 | 93.42 | 1.070 | 0.099 | / |
| | | Level4 | | Left Tilt | 0 | 54 | 5270 | 0.11 | 0.062 | 13.6 | 14.50 | 1.230 | 93.42 | 1.070 | 0.082 | / |
| | | Level4 | | Right Cheek | 0 | 54 | 5270 | -0.16 | 0.080 | 13.6 | 14.50 | 1.230 | 93.42 | 1.070 | 0.105 | / |
| | | Level4 | | Right Tilt | 0 | 54 | 5270 | 0.08 | 0.089 | 13.6 | 14.50 | 1.230 | 93.42 | 1.070 | 0.117 | / |
| Ant.2(CH0)& Ant.7(CH1) | | Level1&2&3 | 802.11n (HT40) | Left Cheek | 0 | 54 | 5270 | 0.01 | 0.464 | 21.22 | 22.00 | 1.197 | 93.42 | 1.070 | **0.594** | 77# |
| | | Level1&2&3 | | Left Tilt | 0 | 54 | 5270 | -0.09 | 0.352 | 21.22 | 22.00 | 1.197 | 93.42 | 1.070 | 0.451 | / |
| | | Level1&2&3 | | Right Cheek | 0 | 54 | 5270 | 0.10 | 0.369 | 21.22 | 22.00 | 1.197 | 93.42 | 1.070 | 0.473 | / |
| | | Level1&2&3 | | Right Tilt | 0 | 54 | 5270 | -0.13 | 0.282 | 21.22 | 22.00 | 1.197 | 93.42 | 1.070 | 0.361 | / |
| | | Level4 | 802.11n (HT40) | Left Cheek | 0 | 54 | 5270 | 0.02 | 0.171 | 17.01 | 17.50 | 1.119 | 93.42 | 1.070 | 0.205 | / |
| | | Level4 | | Left Tilt | 0 | 54 | 5270 | -0.15 | 0.123 | 17.01 | 17.50 | 1.119 | 93.42 | 1.070 | 0.147 | / |
| | | Level4 | | Right Cheek | 0 | 54 | 5270 | 0.10 | 0.158 | 17.01 | 17.50 | 1.119 | 93.42 | 1.070 | 0.189 | / |
| | | Level4 | | Right Tilt | 0 | 54 | 5270 | 0.10 | 0.116 | 17.01 | 17.50 | 1.119 | 93.42 | 1.070 | 0.139 | / |
| Ant.2(CH0) | 5.6G | Level1&2&3 | 802.11ac (VHT80) | Left Cheek | 0 | 122 | 5610 | 0.03 | 0.386 | 17.39 | 19.00 | 1.449 | 88.37 | 1.132 | 0.633 | / |
| | | Level1&2&3 | | Left Tilt | 0 | 122 | 5610 | 0.14 | 0.166 | 17.39 | 19.00 | 1.449 | 88.37 | 1.132 | 0.272 | / |
| | | Level1&2&3 | | Right Cheek | 0 | 122 | 5610 | -0.03 | 0.258 | 17.39 | 19.00 | 1.449 | 88.37 | 1.132 | 0.423 | / |
| | | Level1&2&3 | | Right Tilt | 0 | 122 | 5610 | 0.07 | 0.113 | 17.39 | 19.00 | 1.449 | 88.37 | 1.132 | 0.185 | / |
| | | Level4 | 802.11ac (VHT80) | Left Cheek | 0 | 122 | 5610 | 0.15 | 0.118 | 12.83 | 13.50 | 1.167 | 88.37 | 1.132 | 0.156 | / |
| | | Level4 | | Left Tilt | 0 | 122 | 5610 | 0.02 | 0.047 | 12.83 | 13.50 | 1.167 | 88.37 | 1.132 | 0.062 | / |
| | | Level4 | | Right Cheek | 0 | 122 | 5610 | -0.16 | 0.072 | 12.83 | 13.50 | 1.167 | 88.37 | 1.132 | 0.095 | / |
| | | Level4 | | Right Tilt | 0 | 122 | 5610 | 0.17 | 0.028 | 12.83 | 13.50 | 1.167 | 88.37 | 1.132 | 0.037 | / |
| Ant.7(CH1) | | Level1&2&3 | 802.11ac (VHT80) | Left Cheek | 0 | 122 | 5610 | 0.03 | 0.321 | 17 | 18.00 | 1.259 | 88.37 | 1.132 | 0.457 | / |
| | | Level1&2&3 | | Left Tilt | 0 | 122 | 5610 | 0.06 | 0.390 | 17 | 18.00 | 1.259 | 88.37 | 1.132 | 0.556 | / |
| | | Level1&2&3 | | Right Cheek | 0 | 122 | 5610 | -0.10 | 0.328 | 17 | 18.00 | 1.259 | 88.37 | 1.132 | 0.467 | / |
| | | Level1&2&3 | | Right Tilt | 0 | 122 | 5610 | 0.02 | 0.326 | 17 | 18.00 | 1.259 | 88.37 | 1.132 | 0.465 | / |
| | | Level4 | 802.11ac | Left Cheek | 0 | 122 | 5610 | 0.06 | 0.117 | 12.59 | 13.50 | 1.233 | 88.37 | 1.132 | 0.163 | / |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Level4 | (VHT80) | Left Tilt | 0 | 122 | 5610 | 0.05 | 0.145 | 12.59 | 13.50 | 1.233 | 88.37 | 1.132 | 0.202 | / |
| | | Level4 | | Right Cheek | 0 | 122 | 5610 | -0.02 | 0.112 | 12.59 | 13.50 | 1.233 | 88.37 | 1.132 | 0.156 | / |
| | | Level4 | | Right Tilt | 0 | 122 | 5610 | 0.06 | 0.127 | 12.59 | 13.50 | 1.233 | 88.37 | 1.132 | 0.177 | / |
| | | Level1&2&3 | | Left Cheek | 0 | 122 | 5610 | 0.10 | 0.450 | 20.04 | 21.00 | 1.247 | 88.37 | 1.132 | 0.635 | / |
| | | Level1&2&3 | 802.11ac | Left Tilt | 0 | 122 | 5610 | 0.05 | 0.501 | 20.04 | 21.00 | 1.247 | 88.37 | 1.132 | **0.707** | 78# |
| | | Level1&2&3 | (VHT80) | Right Cheek | 0 | 122 | 5610 | -0.06 | 0.334 | 20.04 | 21.00 | 1.247 | 88.37 | 1.132 | 0.471 | / |
| Ant.2(CH0)& | | Level1&2&3 | | Right Tilt | 0 | 122 | 5610 | -0.14 | 0.343 | 20.04 | 21.00 | 1.247 | 88.37 | 1.132 | 0.484 | / |
| Ant.7(CH1) | | Level4 | | Left Cheek | 0 | 122 | 5610 | 0.06 | 0.165 | 16.08 | 16.50 | 1.102 | 88.37 | 1.132 | 0.206 | / |
| | | Level4 | 802.11ac | Left Tilt | 0 | 122 | 5610 | 0.15 | 0.179 | 16.08 | 16.50 | 1.102 | 88.37 | 1.132 | 0.223 | / |
| | | Level4 | (VHT80) | Right Cheek | 0 | 122 | 5610 | 0.17 | 0.136 | 16.08 | 16.50 | 1.102 | 88.37 | 1.132 | 0.170 | / |
| | | Level4 | | Right Tilt | 0 | 122 | 5610 | 0.16 | 0.151 | 16.08 | 16.50 | 1.102 | 88.37 | 1.132 | 0.188 | / |
| | | Level1&2 | | Left Cheek | 0 | 155 | 5775 | -0.03 | 0.141 | 17.04 | 19.00 | 1.570 | 88.37 | 1.132 | 0.251 | / |
| | | Level1&2 | 802.11ac | Left Tilt | 0 | 155 | 5775 | 0.11 | 0.086 | 17.04 | 19.00 | 1.570 | 88.37 | 1.132 | 0.153 | / |
| | | Level1&2 | (VHT80) | Right Cheek | 0 | 155 | 5775 | -0.19 | 0.132 | 17.04 | 19.00 | 1.570 | 88.37 | 1.132 | 0.235 | / |
| | | Level1&2 | | Right Tilt | 0 | 155 | 5775 | 0.01 | 0.065 | 17.04 | 19.00 | 1.570 | 88.37 | 1.132 | 0.116 | / |
| | | Level3 | | Left Cheek | 0 | 155 | 5775 | 0.12 | 0.118 | 17.04 | 18.00 | 1.247 | 88.37 | 1.132 | 0.167 | / |
| | | Level3 | 802.11ac | Left Tilt | 0 | 155 | 5775 | -0.13 | 0.076 | 17.04 | 18.00 | 1.247 | 88.37 | 1.132 | 0.107 | / |
| Ant.2(CH0) | | Level3 | (VHT80) | Right Cheek | 0 | 155 | 5775 | -0.02 | 0.103 | 17.04 | 18.00 | 1.247 | 88.37 | 1.132 | 0.145 | / |
| | | Level3 | | Right Tilt | 0 | 155 | 5775 | 0.00 | 0.052 | 17.04 | 18.00 | 1.247 | 88.37 | 1.132 | 0.073 | / |
| | | Level4 | | Left Cheek | 0 | 155 | 5775 | 0.19 | 0.044 | 13.82 | 14.00 | 1.042 | 88.37 | 1.132 | 0.052 | / |
| | | Level4 | 802.11ac | Left Tilt | 0 | 155 | 5775 | -0.12 | 0.032 | 13.82 | 14.00 | 1.042 | 88.37 | 1.132 | 0.038 | / |
| | | Level4 | (VHT80) | Right Cheek | 0 | 155 | 5775 | 0.14 | 0.038 | 13.82 | 14.00 | 1.042 | 88.37 | 1.132 | 0.045 | / |
| | | Level4 | | Right Tilt | 0 | 155 | 5775 | -0.12 | 0.029 | 13.82 | 14.00 | 1.042 | 88.37 | 1.132 | 0.034 | / |
| | | Level1&2 | | Left Cheek | 0 | 155 | 5775 | 0.07 | 0.411 | 17.53 | 19.00 | 1.403 | 88.37 | 1.132 | 0.653 | / |
| | | Level1&2 | 802.11ac | Left Tilt | 0 | 155 | 5775 | -0.13 | 0.602 | 17.53 | 19.00 | 1.403 | 88.37 | 1.132 | **0.956** | 79# |
| | | Level1&2 | (VHT80) | Right Cheek | 0 | 155 | 5775 | -0.11 | 0.366 | 17.53 | 19.00 | 1.403 | 88.37 | 1.132 | 0.581 | / |
| | | Level1&2 | | Right Tilt | 0 | 155 | 5775 | 0.19 | 0.394 | 17.53 | 19.00 | 1.403 | 88.37 | 1.132 | 0.626 | / |
| | 5.8G | Level3 | | Left Cheek | 0 | 155 | 5775 | 0.12 | 0.271 | 17.06 | 18.00 | 1.242 | 88.37 | 1.132 | 0.381 | / |
| | | Level3 | 802.11ac | Left Tilt | 0 | 155 | 5775 | 0.18 | 0.473 | 17.06 | 18.00 | 1.242 | 88.37 | 1.132 | 0.665 | / |
| Ant.7(CH1) | | Level3 | (VHT80) | Right Cheek | 0 | 155 | 5775 | 0.02 | 0.265 | 17.06 | 18.00 | 1.242 | 88.37 | 1.132 | 0.373 | / |
| | | Level3 | | Right Tilt | 0 | 155 | 5775 | 0.11 | 0.349 | 17.06 | 18.00 | 1.242 | 88.37 | 1.132 | 0.491 | / |
| | | Level4 | | Left Cheek | 0 | 155 | 5775 | -0.09 | 0.121 | 13.89 | 14.00 | 1.026 | 88.37 | 1.132 | 0.141 | / |
| | | Level4 | 802.11ac | Left Tilt | 0 | 155 | 5775 | -0.04 | 0.234 | 13.89 | 14.00 | 1.026 | 88.37 | 1.132 | 0.272 | / |
| | | Level4 | (VHT80) | Right Cheek | 0 | 155 | 5775 | -0.12 | 0.155 | 13.89 | 14.00 | 1.026 | 88.37 | 1.132 | 0.180 | / |
| | | Level4 | | Right Tilt | 0 | 155 | 5775 | -0.14 | 0.165 | 13.89 | 14.00 | 1.026 | 88.37 | 1.132 | 0.192 | / |
| | | Level1&2 | | Left Cheek | 0 | 155 | 5775 | 0.12 | 0.529 | 20.59 | 22.00 | 1.384 | 88.37 | 1.132 | 0.829 | / |
| | | Level1&2 | 802.11ac | Left Tilt | 0 | 155 | 5775 | -0.15 | 0.422 | 20.59 | 22.00 | 1.384 | 88.37 | 1.132 | 0.661 | / |
| | | Level1&2 | (VHT80) | Right Cheek | 0 | 155 | 5775 | 0.12 | 0.323 | 20.59 | 22.00 | 1.384 | 88.37 | 1.132 | 0.506 | / |
| Ant.2(CH0)& | | Level1&2 | | Right Tilt | 0 | 155 | 5775 | -0.12 | 0.355 | 20.59 | 22.00 | 1.384 | 88.37 | 1.132 | 0.556 | / |
| Ant.7(CH1) | | Level3 | | Left Cheek | 0 | 155 | 5775 | -0.05 | 0.412 | 20.33 | 21.00 | 1.167 | 88.37 | 1.132 | 0.544 | / |
| | | Level3 | 802.11ac | Left Tilt | 0 | 155 | 5775 | 0.00 | 0.332 | 20.33 | 21.00 | 1.167 | 88.37 | 1.132 | 0.439 | / |
| | | Level3 | (VHT80) | Right Cheek | 0 | 155 | 5775 | -0.10 | 0.232 | 20.33 | 21.00 | 1.167 | 88.37 | 1.132 | 0.306 | / |
| | | Level3 | | Right Tilt | 0 | 155 | 5775 | -0.09 | 0.262 | 20.33 | 21.00 | 1.167 | 88.37 | 1.132 | 0.346 | / |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Level4 | | Left Cheek | 0 | 155 | 5775 | 0.16 | 0.189 | 16.62 | 17.00 | 1.091 | 88.37 | 1.132 | 0.233 | / |
| | | Level4 | 802.11ac | Left Tilt | 0 | 155 | 5775 | 0.09 | 0.174 | 16.62 | 17.00 | 1.091 | 88.37 | 1.132 | 0.215 | / |
| | | Level4 | (VHT80) | Right Cheek | 0 | 155 | 5775 | 0.02 | 0.122 | 16.62 | 17.00 | 1.091 | 88.37 | 1.132 | 0.151 | / |
| | | Level4 | | Right Tilt | 0 | 155 | 5775 | 0.16 | 0.134 | 16.62 | 17.00 | 1.091 | 88.37 | 1.132 | 0.165 | / |
| **Body-worn** | | | | | | | | | | | | | | | | |
| Ant.2(CH0) | 5.3G | Level5 | 802.11n | Front Side | 15 | 54 | 5270 | 0.18 | 0.072 | 17.47 | 19.00 | 1.422 | 93.42 | 1.070 | 0.110 | / |
| | | Level5 | (HT40) | Back Side | 15 | 54 | 5270 | -0.04 | 0.107 | 17.47 | 19.00 | 1.422 | 93.42 | 1.070 | 0.163 | / |
| Ant.7(CH1) | | Level5 | 802.11n | Front Side | 15 | 54 | 5270 | 0.00 | 0.050 | 17.78 | 19.00 | 1.324 | 93.42 | 1.070 | 0.071 | / |
| | | Level5 | (HT40) | Back Side | 15 | 54 | 5270 | 0.07 | 0.116 | 17.78 | 19.00 | 1.324 | 93.42 | 1.070 | 0.164 | / |
| Ant.2(CH0)& | | Level5 | 802.11n | Front Side | 15 | 54 | 5270 | 0.15 | 0.068 | 21.22 | 22.00 | 1.197 | 93.42 | 1.070 | 0.087 | / |
| Ant.7(CH1) | | Level5 | (HT40) | Back Side | 15 | 54 | 5270 | -0.04 | 0.172 | 21.22 | 22.00 | 1.197 | 93.42 | 1.070 | **0.220** | 80# |
| Ant.2(CH0) | 5.6G | Level5 | 802.11ac | Front Side | 15 | 122 | 5610 | 0.11 | 0.055 | 17.08 | 19.00 | 1.556 | 88.37 | 1.132 | 0.097 | / |
| | | Level5 | (VHT80) | Back Side | 15 | 122 | 5610 | 0.05 | 0.082 | 17.08 | 19.00 | 1.556 | 88.37 | 1.132 | 0.144 | / |
| Ant.7(CH1) | | Level5 | 802.11ac | Front Side | 15 | 122 | 5610 | 0.14 | 0.063 | 17.38 | 19.00 | 1.452 | 88.37 | 1.132 | 0.104 | / |
| | | Level5 | (VHT80) | Back Side | 15 | 122 | 5610 | 0.18 | 0.112 | 17.38 | 19.00 | 1.452 | 88.37 | 1.132 | 0.184 | / |
| Ant.2(CH0)& | | Level5 | 802.11ac | Front Side | 15 | 122 | 5610 | 0.19 | 0.085 | 20.51 | 22.00 | 1.409 | 88.37 | 1.132 | 0.136 | / |
| Ant.7(CH1) | | Level5 | (VHT80) | Back Side | 15 | 122 | 5610 | 0.04 | 0.148 | 20.51 | 22.00 | 1.409 | 88.37 | 1.132 | **0.236** | 81# |
| Ant.2(CH0) | 5.8G | Level5 | 802.11ac | Front Side | 15 | 155 | 5775 | 0.12 | 0.064 | 17.04 | 19.00 | 1.570 | 88.37 | 1.132 | 0.114 | / |
| | | Level5 | (VHT80) | Back Side | 15 | 155 | 5775 | -0.17 | 0.081 | 17.04 | 19.00 | 1.570 | 88.37 | 1.132 | 0.144 | / |
| Ant.7(CH1) | | Level5 | 802.11ac | Front Side | 15 | 155 | 5775 | -0.11 | 0.032 | 17.53 | 19.00 | 1.403 | 88.37 | 1.132 | 0.051 | / |
| | | Level5 | (VHT80) | Back Side | 15 | 155 | 5775 | 0.11 | 0.068 | 17.53 | 19.00 | 1.403 | 88.37 | 1.132 | 0.108 | / |
| Ant.2(CH0)& | | Level5 | 802.11ac | Front Side | 15 | 155 | 5775 | -0.15 | 0.074 | 20.59 | 22.00 | 1.384 | 88.37 | 1.132 | 0.116 | / |
| Ant.7(CH1) | | Level5 | (VHT80) | Back Side | 15 | 155 | 5775 | 0.18 | 0.122 | 20.59 | 22.00 | 1.384 | 88.37 | 1.132 | **0.191** | 82# |
| **Hotspot** | | | | | | | | | | | | | | | | |
| Ant.2(CH0) | 5.2G | Level5 | 802.11n | Front Side | 10 | 46 | 5230 | -0.14 | 0.071 | 17.57 | 19.00 | 1.390 | 93.42 | 1.070 | 0.106 | / |
| | | Level5 | (HT40) | Back Side | 10 | 46 | 5230 | -0.04 | 0.126 | 17.57 | 19.00 | 1.390 | 93.42 | 1.070 | 0.187 | / |
| | | Level5 | | Left Edge | 10 | 46 | 5230 | 0.12 | 0.287 | 17.57 | 19.00 | 1.390 | 93.42 | 1.070 | 0.427 | / |
| | | Level5 | | Right Edge | 10 | 46 | 5230 | -0.11 | 0.013 | 17.57 | 19.00 | 1.390 | 93.42 | 1.070 | 0.019 | / |
| | | Level5 | | Top Edge | 10 | 46 | 5230 | 0.16 | 0.101 | 17.57 | 19.00 | 1.390 | 93.42 | 1.070 | 0.150 | / |
| | | Level5 | | Bottom Edge | 10 | 46 | 5230 | -0.03 | 0.008 | 17.57 | 19.00 | 1.390 | 93.42 | 1.070 | 0.012 | / |
| | | Level6&7 | 802.11n | Front Side | 10 | 46 | 5230 | -0.03 | 0.031 | 14.3 | 15.00 | 1.175 | 93.42 | 1.070 | 0.039 | / |
| | | Level6&7 | (HT40) | Back Side | 10 | 46 | 5230 | -0.02 | 0.043 | 14.3 | 15.00 | 1.175 | 93.42 | 1.070 | 0.054 | / |
| | | Level6&7 | | Left Edge | 10 | 46 | 5230 | -0.19 | 0.108 | 14.3 | 15.00 | 1.175 | 93.42 | 1.070 | 0.136 | / |
| | | Level6&7 | | Right Edge | 10 | 46 | 5230 | 0.02 | 0.016 | 14.3 | 15.00 | 1.175 | 93.42 | 1.070 | 0.020 | / |
| | | Level6&7 | | Top Edge | 10 | 46 | 5230 | -0.09 | 0.044 | 14.3 | 15.00 | 1.175 | 93.42 | 1.070 | 0.055 | / |
| | | Level6&7 | | Bottom Edge | 10 | 46 | 5230 | 0.12 | 0.009 | 14.3 | 15.00 | 1.175 | 93.42 | 1.070 | 0.011 | / |
| | | Level8 | 802.11n | Front Side | 10 | 46 | 5230 | 0.14 | 0.014 | 10.8 | 12.00 | 1.318 | 93.42 | 1.070 | 0.020 | / |
| | | Level8 | (HT40) | Back Side | 10 | 46 | 5230 | -0.19 | 0.026 | 10.8 | 12.00 | 1.318 | 93.42 | 1.070 | 0.037 | / |
| | | Level8 | | Left Edge | 10 | 46 | 5230 | -0.01 | 0.059 | 10.8 | 12.00 | 1.318 | 93.42 | 1.070 | 0.083 | / |
| | | Level8 | | Right Edge | 10 | 46 | 5230 | 0.02 | 0.015 | 10.8 | 12.00 | 1.318 | 93.42 | 1.070 | 0.021 | / |
| | | Level8 | | Top Edge | 10 | 46 | 5230 | -0.11 | 0.021 | 10.8 | 12.00 | 1.318 | 93.42 | 1.070 | 0.030 | / |
| | | Level8 | | Bottom Edge | 10 | 46 | 5230 | 0.16 | 0.005 | 10.8 | 12.00 | 1.318 | 93.42 | 1.070 | 0.007 | / |
| Ant.7(CH1) | | Level5 | 802.11n | Front Side | 10 | 46 | 5230 | 0.19 | 0.078 | 18.08 | 19.00 | 1.236 | 93.42 | 1.070 | 0.103 | / |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Level5 | (HT40) | Back Side | 10 | 46 | 5230 | 0.13 | 0.193 | 18.08 | 19.00 | 1.236 | 93.42 | 1.070 | 0.255 | / |
| | | Level5 | | Left Edge | 10 | 46 | 5230 | 0.13 | 0.037 | 18.08 | 19.00 | 1.236 | 93.42 | 1.070 | 0.049 | / |
| | | Level5 | | Right Edge | 10 | 46 | 5230 | -0.14 | 0.090 | 18.08 | 19.00 | 1.236 | 93.42 | 1.070 | 0.119 | / |
| | | Level5 | | Top Edge | 10 | 46 | 5230 | 0.11 | 0.387 | 18.08 | 19.00 | 1.236 | 93.42 | 1.070 | 0.512 | / |
| | | Level5 | | Bottom Edge | 10 | 46 | 5230 | 0.14 | 0.015 | 18.08 | 19.00 | 1.236 | 93.42 | 1.070 | 0.020 | / |
| | | Level6&7 | | Front Side | 10 | 46 | 5230 | -0.06 | 0.037 | 14.09 | 15.00 | 1.233 | 93.42 | 1.070 | 0.049 | / |
| | | Level6&7 | | Back Side | 10 | 46 | 5230 | -0.18 | 0.083 | 14.09 | 15.00 | 1.233 | 93.42 | 1.070 | 0.110 | / |
| | | Level6&7 | 802.11n | Left Edge | 10 | 46 | 5230 | -0.12 | 0.013 | 14.09 | 15.00 | 1.233 | 93.42 | 1.070 | 0.017 | / |
| | | Level6&7 | (HT40) | Right Edge | 10 | 46 | 5230 | -0.13 | 0.036 | 14.09 | 15.00 | 1.233 | 93.42 | 1.070 | 0.047 | / |
| | | Level6&7 | | Top Edge | 10 | 46 | 5230 | -0.06 | 0.138 | 14.09 | 15.00 | 1.233 | 93.42 | 1.070 | 0.182 | / |
| | | Level6&7 | | Bottom Edge | 10 | 46 | 5230 | 0.14 | 0.005 | 14.09 | 15.00 | 1.233 | 93.42 | 1.070 | 0.007 | / |
| | | Level8 | | Front Side | 10 | 46 | 5230 | 0.12 | 0.018 | 11.03 | 12.00 | 1.250 | 93.42 | 1.070 | 0.024 | / |
| | | Level8 | | Back Side | 10 | 46 | 5230 | -0.15 | 0.038 | 11.03 | 12.00 | 1.250 | 93.42 | 1.070 | 0.051 | / |
| | | Level8 | 802.11n | Left Edge | 10 | 46 | 5230 | -0.18 | 0.007 | 11.03 | 12.00 | 1.250 | 93.42 | 1.070 | 0.009 | / |
| | | Level8 | (HT40) | Right Edge | 10 | 46 | 5230 | 0.16 | 0.015 | 11.03 | 12.00 | 1.250 | 93.42 | 1.070 | 0.020 | / |
| | | Level8 | | Top Edge | 10 | 46 | 5230 | 0.03 | 0.076 | 11.03 | 12.00 | 1.250 | 93.42 | 1.070 | 0.102 | / |
| | | Level8 | | Bottom Edge | 10 | 46 | 5230 | -0.18 | 0.006 | 11.03 | 12.00 | 1.250 | 93.42 | 1.070 | 0.008 | / |
| | | Level5 | | Front Side | 10 | 46 | 5230 | -0.02 | 0.124 | 21.43 | 22.00 | 1.140 | 93.42 | 1.070 | 0.151 | / |
| | | Level5 | | Back Side | 10 | 46 | 5230 | 0.10 | 0.265 | 21.43 | 22.00 | 1.140 | 93.42 | 1.070 | 0.323 | / |
| | | Level5 | 802.11n | Left Edge | 10 | 46 | 5230 | -0.11 | 0.332 | 21.43 | 22.00 | 1.140 | 93.42 | 1.070 | 0.405 | / |
| | | Level5 | (HT40) | Right Edge | 10 | 46 | 5230 | 0.08 | 0.084 | 21.43 | 22.00 | 1.140 | 93.42 | 1.070 | 0.102 | / |
| | | Level5 | | Top Edge | 10 | 46 | 5230 | 0.08 | 0.466 | 21.43 | 22.00 | 1.140 | 93.42 | 1.070 | **0.568** | 83# |
| | | Level5 | | Bottom Edge | 10 | 46 | 5230 | 0.02 | 0.008 | 21.43 | 22.00 | 1.140 | 93.42 | 1.070 | 0.010 | / |
| | | Level6&7 | | Front Side | 10 | 46 | 5230 | -0.16 | 0.043 | 17.6 | 18.00 | 1.096 | 93.42 | 1.070 | 0.050 | / |
| | | Level6&7 | | Back Side | 10 | 46 | 5230 | -0.11 | 0.099 | 17.6 | 18.00 | 1.096 | 93.42 | 1.070 | 0.116 | / |
| Ant.2(CH0)& | | Level6&7 | 802.11n | Left Edge | 10 | 46 | 5230 | -0.16 | 0.138 | 17.6 | 18.00 | 1.096 | 93.42 | 1.070 | 0.162 | / |
| Ant.7(CH1) | | Level6&7 | (HT40) | Right Edge | 10 | 46 | 5230 | 0.14 | 0.037 | 17.6 | 18.00 | 1.096 | 93.42 | 1.070 | 0.043 | / |
| | | Level6&7 | | Top Edge | 10 | 46 | 5230 | 0.02 | 0.184 | 17.6 | 18.00 | 1.096 | 93.42 | 1.070 | 0.216 | / |
| | | Level6&7 | | Bottom Edge | 10 | 46 | 5230 | -0.06 | 0.006 | 17.6 | 18.00 | 1.096 | 93.42 | 1.070 | 0.007 | / |
| | | Level8 | | Front Side | 10 | 46 | 5230 | 0.04 | 0.025 | 14.44 | 15.00 | 1.138 | 93.42 | 1.070 | 0.030 | / |
| | | Level8 | | Back Side | 10 | 46 | 5230 | 0.13 | 0.056 | 14.44 | 15.00 | 1.138 | 93.42 | 1.070 | 0.068 | / |
| | | Level8 | 802.11n | Left Edge | 10 | 46 | 5230 | -0.04 | 0.065 | 14.44 | 15.00 | 1.138 | 93.42 | 1.070 | 0.079 | / |
| | | Level8 | (HT40) | Right Edge | 10 | 46 | 5230 | -0.04 | 0.020 | 14.44 | 15.00 | 1.138 | 93.42 | 1.070 | 0.024 | / |
| | | Level8 | | Top Edge | 10 | 46 | 5230 | -0.09 | 0.098 | 14.44 | 15.00 | 1.138 | 93.42 | 1.070 | 0.119 | / |
| | | Level8 | | Bottom Edge | 10 | 46 | 5230 | 0.10 | 0.007 | 14.44 | 15.00 | 1.138 | 93.42 | 1.070 | 0.009 | / |
| | | Level5 | | Front Side | 10 | 155 | 5775 | 0.14 | 0.172 | 17.04 | 19.00 | 1.570 | 88.37 | 1.132 | 0.306 | / |
| | | Level5 | | Back Side | 10 | 155 | 5775 | 0.01 | 0.265 | 17.04 | 19.00 | 1.570 | 88.37 | 1.132 | 0.471 | / |
| | | Level5 | 802.11ac | Left Edge | 10 | 155 | 5775 | 0.15 | 0.464 | 17.04 | 19.00 | 1.570 | 88.37 | 1.132 | 0.825 | / |
| | | Level5 | (VHT80) | Right Edge | 10 | 155 | 5775 | -0.08 | 0.023 | 17.04 | 19.00 | 1.570 | 88.37 | 1.132 | 0.041 | / |
| Ant.2(CH0) | 5.8G | Level5 | | Top Edge | 10 | 155 | 5775 | 0.10 | 0.177 | 17.04 | 19.00 | 1.570 | 88.37 | 1.132 | 0.315 | / |
| | | Level5 | | Bottom Edge | 10 | 155 | 5775 | 0.08 | 0.131 | 17.04 | 19.00 | 1.570 | 88.37 | 1.132 | 0.233 | / |
| | | Level6&7 | 802.11ac | Front Side | 10 | 155 | 5775 | 0.11 | 0.083 | 15.84 | 16.00 | 1.038 | 88.37 | 1.132 | 0.098 | / |
| | | Level6&7 | (VHT80) | Back Side | 10 | 155 | 5775 | -0.05 | 0.122 | 15.84 | 16.00 | 1.038 | 88.37 | 1.132 | 0.143 | / |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Level6&7 | | Left Edge | 10 | 155 | 5775 | 0.07 | 0.245 | 15.84 | 16.00 | 1.038 | 88.37 | 1.132 | 0.288 | / |
| | | Level6&7 | | Right Edge | 10 | 155 | 5775 | -0.05 | 0.016 | 15.84 | 16.00 | 1.038 | 88.37 | 1.132 | 0.019 | / |
| | | Level6&7 | | Top Edge | 10 | 155 | 5775 | 0.17 | 0.093 | 15.84 | 16.00 | 1.038 | 88.37 | 1.132 | 0.109 | / |
| | | Level6&7 | | Bottom Edge | 10 | 155 | 5775 | -0.19 | 0.063 | 15.84 | 16.00 | 1.038 | 88.37 | 1.132 | 0.074 | / |
| | | Level8 | | Front Side | 10 | 155 | 5775 | 0.16 | 0.038 | 12.93 | 13.00 | 1.016 | 88.37 | 1.132 | 0.044 | / |
| | | Level8 | | Back Side | 10 | 155 | 5775 | 0.06 | 0.056 | 12.93 | 13.00 | 1.016 | 88.37 | 1.132 | 0.064 | / |
| | | Level8 | 802.11ac | Left Edge | 10 | 155 | 5775 | 0.06 | 0.116 | 12.93 | 13.00 | 1.016 | 88.37 | 1.132 | 0.133 | / |
| | | Level8 | (VHT80) | Right Edge | 10 | 155 | 5775 | 0.02 | 0.009 | 12.93 | 13.00 | 1.016 | 88.37 | 1.132 | 0.010 | / |
| | | Level8 | | Top Edge | 10 | 155 | 5775 | 0.18 | 0.053 | 12.93 | 13.00 | 1.016 | 88.37 | 1.132 | 0.061 | / |
| | | Level8 | | Bottom Edge | 10 | 155 | 5775 | 0.00 | 0.036 | 12.93 | 13.00 | 1.016 | 88.37 | 1.132 | 0.041 | / |
| Ant.7(CH1) | | Level5 | | Front Side | 10 | 155 | 5775 | -0.03 | 0.063 | 17.53 | 19.00 | 1.403 | 88.37 | 1.132 | 0.100 | / |
| | | Level5 | | Back Side | 10 | 155 | 5775 | 0.16 | 0.101 | 17.53 | 19.00 | 1.403 | 88.37 | 1.132 | 0.160 | / |
| | | Level5 | 802.11ac | Left Edge | 10 | 155 | 5775 | 0.19 | 0.022 | 17.53 | 19.00 | 1.403 | 88.37 | 1.132 | 0.035 | / |
| | | Level5 | (VHT80) | Right Edge | 10 | 155 | 5775 | 0.03 | 0.011 | 17.53 | 19.00 | 1.403 | 88.37 | 1.132 | 0.017 | / |
| | | Level5 | | Top Edge | 10 | 155 | 5775 | -0.12 | 0.230 | 17.53 | 19.00 | 1.403 | 88.37 | 1.132 | 0.365 | / |
| | | Level5 | | Bottom Edge | 10 | 155 | 5775 | -0.01 | 0.016 | 17.53 | 19.00 | 1.403 | 88.37 | 1.132 | 0.025 | / |
| | | Level6&7 | | Front Side | 10 | 155 | 5775 | -0.19 | 0.041 | 15.91 | 16.00 | 1.021 | 88.37 | 1.132 | 0.047 | / |
| | | Level6&7 | | Back Side | 10 | 155 | 5775 | -0.03 | 0.055 | 15.91 | 16.00 | 1.021 | 88.37 | 1.132 | 0.064 | / |
| | | Level6&7 | 802.11ac | Left Edge | 10 | 155 | 5775 | 0.15 | 0.016 | 15.91 | 16.00 | 1.021 | 88.37 | 1.132 | 0.018 | / |
| | | Level6&7 | (VHT80) | Right Edge | 10 | 155 | 5775 | 0.03 | 0.003 | 15.91 | 16.00 | 1.021 | 88.37 | 1.132 | 0.003 | / |
| | | Level6&7 | | Top Edge | 10 | 155 | 5775 | -0.10 | 0.121 | 15.91 | 16.00 | 1.021 | 88.37 | 1.132 | 0.140 | / |
| | | Level6&7 | | Bottom Edge | 10 | 155 | 5775 | 0.02 | 0.007 | 15.91 | 16.00 | 1.021 | 88.37 | 1.132 | 0.008 | / |
| | | Level8 | | Front Side | 10 | 155 | 5775 | 0.08 | 0.023 | 12.9 | 13.00 | 1.023 | 88.37 | 1.132 | 0.027 | / |
| | | Level8 | | Back Side | 10 | 155 | 5775 | -0.16 | 0.024 | 12.9 | 13.00 | 1.023 | 88.37 | 1.132 | 0.028 | / |
| | | Level8 | 802.11ac | Left Edge | 10 | 155 | 5775 | 0.05 | 0.006 | 12.9 | 13.00 | 1.023 | 88.37 | 1.132 | 0.007 | / |
| | | Level8 | (VHT80) | Right Edge | 10 | 155 | 5775 | -0.09 | 0.001 | 12.9 | 13.00 | 1.023 | 88.37 | 1.132 | 0.001 | / |
| | | Level8 | | Top Edge | 10 | 155 | 5775 | 0.14 | 0.071 | 12.9 | 13.00 | 1.023 | 88.37 | 1.132 | 0.082 | / |
| | | Level8 | | Bottom Edge | 10 | 155 | 5775 | 0.08 | 0.003 | 12.9 | 13.00 | 1.023 | 88.37 | 1.132 | 0.003 | / |
| | | Level5 | | Front Side | 10 | 155 | 5775 | 0.14 | 0.182 | 20.59 | 22.00 | 1.384 | 88.37 | 1.132 | 0.285 | / |
| | | Level5 | | Back Side | 10 | 155 | 5775 | 0.06 | 0.288 | 20.59 | 22.00 | 1.384 | 88.37 | 1.132 | 0.451 | / |
| | | Level5 | 802.11ac | Left Edge | 10 | 155 | 5775 | 0.09 | 0.544 | 20.59 | 22.00 | 1.384 | 88.37 | 1.132 | **0.852** | 84# |
| | | Level5 | (VHT80) | Right Edge | 10 | 155 | 5775 | -0.15 | 0.056 | 20.59 | 22.00 | 1.384 | 88.37 | 1.132 | 0.088 | / |
| | | Level5 | | Top Edge | 10 | 155 | 5775 | 0.13 | 0.422 | 20.59 | 22.00 | 1.384 | 88.37 | 1.132 | 0.661 | / |
| | | Level5 | | Bottom Edge | 10 | 155 | 5775 | 0.09 | 0.123 | 20.59 | 22.00 | 1.384 | 88.37 | 1.132 | 0.193 | / |
| Ant.2(CH0)& Ant.7(CH1) | | Level6&7 | | Front Side | 10 | 155 | 5775 | -0.06 | 0.074 | 18.86 | 19.00 | 1.033 | 88.37 | 1.132 | 0.087 | / |
| | | Level6&7 | | Back Side | 10 | 155 | 5775 | 0.16 | 0.085 | 18.86 | 19.00 | 1.033 | 88.37 | 1.132 | 0.099 | / |
| | | Level6&7 | 802.11ac | Left Edge | 10 | 155 | 5775 | 0.19 | 0.176 | 18.86 | 19.00 | 1.033 | 88.37 | 1.132 | 0.206 | / |
| | | Level6&7 | (VHT80) | Right Edge | 10 | 155 | 5775 | -0.14 | 0.021 | 18.86 | 19.00 | 1.033 | 88.37 | 1.132 | 0.025 | / |
| | | Level6&7 | | Top Edge | 10 | 155 | 5775 | -0.11 | 0.156 | 18.86 | 19.00 | 1.033 | 88.37 | 1.132 | 0.182 | / |
| | | Level6&7 | | Bottom Edge | 10 | 155 | 5775 | 0.04 | 0.043 | 18.86 | 19.00 | 1.033 | 88.37 | 1.132 | 0.050 | / |
| | | Level8 | | Front Side | 10 | 155 | 5775 | -0.06 | 0.041 | 15.64 | 16.00 | 1.086 | 88.37 | 1.132 | 0.050 | / |
| | | Level8 | 802.11ac | Back Side | 10 | 155 | 5775 | 0.09 | 0.056 | 15.64 | 16.00 | 1.086 | 88.37 | 1.132 | 0.069 | / |
| | | Level8 | (VHT80) | Left Edge | 10 | 155 | 5775 | 0.19 | 0.093 | 15.64 | 16.00 | 1.086 | 88.37 | 1.132 | 0.114 | / |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Level8 | | Right Edge | 10 | 155 | 5775 | 0.12 | 0.013 | 15.64 | 16.00 | 1.086 | 88.37 | 1.132 | 0.016 | / |
| | | Level8 | | Top Edge | 10 | 155 | 5775 | 0.18 | 0.083 | 15.64 | 16.00 | 1.086 | 88.37 | 1.132 | 0.102 | / |
| | | Level8 | | Bottom Edge | 10 | 155 | 5775 | 0.14 | 0.026 | 15.64 | 16.00 | 1.086 | 88.37 | 1.132 | 0.032 | / |
| Note: Refer to ANNEX C for the detailed test data for each test configuration. | | | | | | | | | | | | | | | | |

| Antenna | Band | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | Power Drift (dB) | 10g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | Duty Cycle (%) | Scaling Factor | 10g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Specific** | | | | | | | | | | | | | | | | |
| Ant.2(CH0) | 5.3G | Level5 | 802.11n (HT40) | Front Side | 0 | 54 | 5270 | -0.04 | 0.284 | 17.47 | 19.00 | 1.422 | 93.42 | 1.070 | 0.432 | / |
| | | Level5 | | Back Side | 0 | 54 | 5270 | 0.04 | 0.142 | 17.47 | 19.00 | 1.422 | 93.42 | 1.070 | 0.216 | / |
| | | Level5 | | Left Edge | 0 | 54 | 5270 | 0 | 1.019 | 17.47 | 19.00 | 1.422 | 93.42 | 1.070 | 1.550 | / |
| | | Level5 | | Right Edge | 0 | 54 | 5270 | -0.05 | 0.013 | 17.47 | 19.00 | 1.422 | 93.42 | 1.070 | 0.020 | / |
| | | Level5 | | Top Edge | 0 | 54 | 5270 | 0.19 | 0.072 | 17.47 | 19.00 | 1.422 | 93.42 | 1.070 | 0.110 | / |
| | | Level5 | | Bottom Edge | 0 | 54 | 5270 | 0.16 | 0.056 | 17.47 | 19.00 | 1.422 | 93.42 | 1.070 | 0.085 | / |
| | | Level6&7 | 802.11n (HT40) | Front Side | 0 | 54 | 5270 | 0.18 | 0.12 | 14.01 | 15.00 | 1.256 | 93.42 | 1.070 | 0.161 | / |
| | | Level6&7 | | Back Side | 0 | 54 | 5270 | -0.14 | 0.056 | 14.01 | 15.00 | 1.256 | 93.42 | 1.070 | 0.075 | / |
| | | Level6&7 | | Left Edge | 0 | 54 | 5270 | -0.13 | 0.455 | 14.01 | 15.00 | 1.256 | 93.42 | 1.070 | 0.611 | / |
| | | Level6&7 | | Right Edge | 0 | 54 | 5270 | -0.03 | 0.006 | 14.01 | 15.00 | 1.256 | 93.42 | 1.070 | 0.008 | / |
| | | Level6&7 | | Top Edge | 0 | 54 | 5270 | 0.05 | 0.033 | 14.01 | 15.00 | 1.256 | 93.42 | 1.070 | 0.044 | / |
| | | Level6&7 | | Bottom Edge | 0 | 54 | 5270 | 0.05 | 0.024 | 14.01 | 15.00 | 1.256 | 93.42 | 1.070 | 0.032 | / |
| | | Level8 | 802.11n (HT40) | Front Side | 0 | 54 | 5270 | -0.18 | 0.057 | 11.13 | 12.00 | 1.222 | 93.42 | 1.070 | 0.075 | / |
| | | Level8 | | Back Side | 0 | 54 | 5270 | -0.11 | 0.025 | 11.13 | 12.00 | 1.222 | 93.42 | 1.070 | 0.033 | / |
| | | Level8 | | Left Edge | 0 | 54 | 5270 | -0.15 | 0.218 | 11.13 | 12.00 | 1.222 | 93.42 | 1.070 | 0.285 | / |
| | | Level8 | | Right Edge | 0 | 54 | 5270 | -0.16 | 0.003 | 11.13 | 12.00 | 1.222 | 93.42 | 1.070 | 0.004 | / |
| | | Level8 | | Top Edge | 0 | 54 | 5270 | -0.17 | 0.014 | 11.13 | 12.00 | 1.222 | 93.42 | 1.070 | 0.018 | / |
| | | Level8 | | Bottom Edge | 0 | 54 | 5270 | 0.19 | 0.012 | 11.13 | 12.00 | 1.222 | 93.42 | 1.070 | 0.016 | / |
| Ant.7(CH1) | | Level5 | 802.11n (HT40) | Front Side | 0 | 54 | 5270 | 0.12 | 0.133 | 17.78 | 19.00 | 1.324 | 93.42 | 1.070 | 0.188 | / |
| | | Level5 | | Back Side | 0 | 54 | 5270 | -0.12 | 0.14 | 17.78 | 19.00 | 1.324 | 93.42 | 1.070 | 0.198 | / |
| | | Level5 | | Left Edge | 0 | 54 | 5270 | 0.01 | 0.023 | 17.78 | 19.00 | 1.324 | 93.42 | 1.070 | 0.033 | / |
| | | Level5 | | Right Edge | 0 | 54 | 5270 | -0.17 | 0.034 | 17.78 | 19.00 | 1.324 | 93.42 | 1.070 | 0.048 | / |
| | | Level5 | | Top Edge | 0 | 54 | 5270 | 0.19 | 0.871 | 17.78 | 19.00 | 1.324 | 93.42 | 1.070 | 1.234 | / |
| | | Level5 | | Bottom Edge | 0 | 54 | 5270 | -0.06 | 0.003 | 17.78 | 19.00 | 1.324 | 93.42 | 1.070 | 0.004 | / |
| | | Level6&7 | 802.11n (HT40) | Front Side | 0 | 54 | 5270 | -0.05 | 0.05 | 14 | 15.00 | 1.259 | 93.42 | 1.070 | 0.067 | / |
| | | Level6&7 | | Back Side | 0 | 54 | 5270 | 0.14 | 0.061 | 14 | 15.00 | 1.259 | 93.42 | 1.070 | 0.082 | / |
| | | Level6&7 | | Left Edge | 0 | 54 | 5270 | -0.16 | 0.009 | 14 | 15.00 | 1.259 | 93.42 | 1.070 | 0.012 | / |
| | | Level6&7 | | Right Edge | 0 | 54 | 5270 | -0.11 | 0.013 | 14 | 15.00 | 1.259 | 93.42 | 1.070 | 0.018 | / |
| | | Level6&7 | | Top Edge | 0 | 54 | 5270 | 0.19 | 0.337 | 14 | 15.00 | 1.259 | 93.42 | 1.070 | 0.454 | / |
| | | Level6&7 | | Bottom Edge | 0 | 54 | 5270 | -0.16 | 0.001 | 14 | 15.00 | 1.259 | 93.42 | 1.070 | 0.001 | / |
| | | Level8 | 802.11n (HT40) | Front Side | 0 | 54 | 5270 | 0.06 | 0.024 | 11 | 12.00 | 1.259 | 93.42 | 1.070 | 0.032 | / |
| | | Level8 | | Back Side | 0 | 54 | 5270 | 0.02 | 0.03 | 11 | 12.00 | 1.259 | 93.42 | 1.070 | 0.040 | / |
| | | Level8 | | Left Edge | 0 | 54 | 5270 | -0.01 | 0.005 | 11 | 12.00 | 1.259 | 93.42 | 1.070 | 0.007 | / |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Level8 | | Right Edge | 0 | 54 | 5270 | -0.17 | 0.007 | 11 | 12.00 | 1.259 | 93.42 | 1.070 | 0.009 | / |
| | | Level8 | | Top Edge | 0 | 54 | 5270 | 0.14 | 0.152 | 11 | 12.00 | 1.259 | 93.42 | 1.070 | 0.205 | / |
| | | Level8 | | Bottom Edge | 0 | 54 | 5270 | -0.18 | 0.001 | 11 | 12.00 | 1.259 | 93.42 | 1.070 | 0.001 | / |
| | | Level5 | | Front Side | 0 | 54 | 5270 | -0.16 | 0.316 | 21.22 | 22.00 | 1.197 | 93.42 | 1.070 | 0.405 | / |
| | | Level5 | | Back Side | 0 | 54 | 5270 | -0.04 | 0.17 | 21.22 | 22.00 | 1.197 | 93.42 | 1.070 | 0.218 | / |
| | | Level5 | 802.11n | Left Edge | 0 | 54 | 5270 | -0.05 | 1.03 | 21.22 | 22.00 | 1.197 | 93.42 | 1.070 | 1.319 | / |
| | | Level5 | (HT40) | Right Edge | 0 | 54 | 5270 | -0.08 | 0.028 | 21.22 | 22.00 | 1.197 | 93.42 | 1.070 | 0.036 | / |
| | | Level5 | | Top Edge | 0 | 54 | 5270 | -0.11 | 1.24 | 21.22 | 22.00 | 1.197 | 93.42 | 1.070 | **1.588** | 85# |
| | | Level5 | | Bottom Edge | 0 | 54 | 5270 | -0.08 | 0.007 | 21.22 | 22.00 | 1.197 | 93.42 | 1.070 | 0.009 | / |
| | | Level6&7 | | Front Side | 0 | 54 | 5270 | 0.13 | 0.11 | 17.49 | 18.00 | 1.125 | 93.42 | 1.070 | 0.132 | / |
| | | Level6&7 | | Back Side | 0 | 54 | 5270 | 0.09 | 0.061 | 17.49 | 18.00 | 1.125 | 93.42 | 1.070 | 0.073 | / |
| Ant.2(CH0)& | | Level6&7 | 802.11n | Left Edge | 0 | 54 | 5270 | 0.06 | 0.406 | 17.49 | 18.00 | 1.125 | 93.42 | 1.070 | 0.489 | / |
| Ant.7(CH1) | | Level6&7 | (HT40) | Right Edge | 0 | 54 | 5270 | 0.09 | 0.011 | 17.49 | 18.00 | 1.125 | 93.42 | 1.070 | 0.013 | / |
| | | Level6&7 | | Top Edge | 0 | 54 | 5270 | 0.06 | 0.474 | 17.49 | 18.00 | 1.125 | 93.42 | 1.070 | 0.571 | / |
| | | Level6&7 | | Bottom Edge | 0 | 54 | 5270 | 0.06 | 0.008 | 17.49 | 18.00 | 1.125 | 93.42 | 1.070 | 0.010 | / |
| | | Level8 | | Front Side | 0 | 54 | 5270 | -0.08 | 0.056 | 14.63 | 15.00 | 1.089 | 93.42 | 1.070 | 0.065 | / |
| | | Level8 | | Back Side | 0 | 54 | 5270 | -0.19 | 0.03 | 14.63 | 15.00 | 1.089 | 93.42 | 1.070 | 0.035 | / |
| | | Level8 | 802.11n | Left Edge | 0 | 54 | 5270 | -0.09 | 0.204 | 14.63 | 15.00 | 1.089 | 93.42 | 1.070 | 0.238 | / |
| | | Level8 | (HT40) | Right Edge | 0 | 54 | 5270 | 0.04 | 0.006 | 14.63 | 15.00 | 1.089 | 93.42 | 1.070 | 0.007 | / |
| | | Level8 | | Top Edge | 0 | 54 | 5270 | 0.16 | 0.267 | 14.63 | 15.00 | 1.089 | 93.42 | 1.070 | 0.311 | / |
| | | Level8 | | Bottom Edge | 0 | 54 | 5270 | -0.02 | 0.001 | 14.63 | 15.00 | 1.089 | 93.42 | 1.070 | 0.001 | / |
| | | Level5 | | Front Side | 0 | 122 | 5610 | -0.18 | 0.164 | 17.08 | 19.00 | 1.556 | 93.42 | 1.070 | 0.273 | / |
| | | Level5 | | Back Side | 0 | 122 | 5610 | 0.06 | 0.081 | 17.08 | 19.00 | 1.556 | 93.42 | 1.070 | 0.135 | / |
| | | Level5 | 802.11n | Left Edge | 0 | 122 | 5610 | 0.11 | 0.27 | 17.08 | 19.00 | 1.556 | 93.42 | 1.070 | 0.450 | / |
| | | Level5 | (HT40) | Right Edge | 0 | 122 | 5610 | 0.17 | 0.006 | 17.08 | 19.00 | 1.556 | 93.42 | 1.070 | 0.010 | / |
| | | Level5 | | Top Edge | 0 | 122 | 5610 | 0.07 | 0.057 | 17.08 | 19.00 | 1.556 | 93.42 | 1.070 | 0.095 | / |
| | | Level5 | | Bottom Edge | 0 | 122 | 5610 | 0.02 | 0.001 | 17.08 | 19.00 | 1.556 | 93.42 | 1.070 | 0.002 | / |
| | | Level6&7 | | Front Side | 0 | 122 | 5610 | 0.15 | 0.078 | 15.69 | 16.50 | 1.205 | 93.42 | 1.070 | 0.101 | / |
| | | Level6&7 | | Back Side | 0 | 122 | 5610 | -0.08 | 0.045 | 15.69 | 16.50 | 1.205 | 93.42 | 1.070 | 0.058 | / |
| | | Level6&7 | 802.11n | Left Edge | 0 | 122 | 5610 | 0.09 | 0.149 | 15.69 | 16.50 | 1.205 | 93.42 | 1.070 | 0.192 | / |
| Ant.2(CH0) | | Level6&7 | (HT40) | Right Edge | 0 | 122 | 5610 | -0.03 | 0.01 | 15.69 | 16.50 | 1.205 | 93.42 | 1.070 | 0.013 | / |
| | | Level6&7 | | Top Edge | 0 | 122 | 5610 | -0.15 | 0.027 | 15.69 | 16.50 | 1.205 | 93.42 | 1.070 | 0.035 | / |
| | 5.6G | Level6&7 | | Bottom Edge | 0 | 122 | 5610 | -0.16 | 0.007 | 15.69 | 16.50 | 1.205 | 93.42 | 1.070 | 0.009 | / |
| | | Level8 | | Front Side | 0 | 122 | 5610 | -0.06 | 0.049 | 13.4 | 14.00 | 1.148 | 93.42 | 1.070 | 0.060 | / |
| | | Level8 | | Back Side | 0 | 122 | 5610 | -0.14 | 0.026 | 13.4 | 14.00 | 1.148 | 93.42 | 1.070 | 0.032 | / |
| | | Level8 | 802.11n | Left Edge | 0 | 122 | 5610 | -0.18 | 0.093 | 13.4 | 14.00 | 1.148 | 93.42 | 1.070 | 0.114 | / |
| | | Level8 | (HT40) | Right Edge | 0 | 122 | 5610 | 0.15 | 0.008 | 13.4 | 14.00 | 1.148 | 93.42 | 1.070 | 0.010 | / |
| | | Level8 | | Top Edge | 0 | 122 | 5610 | 0.18 | 0.018 | 13.4 | 14.00 | 1.148 | 93.42 | 1.070 | 0.022 | / |
| | | Level8 | | Bottom Edge | 0 | 122 | 5610 | 0.08 | 0.008 | 13.4 | 14.00 | 1.148 | 93.42 | 1.070 | 0.010 | / |
| | | Level5 | | Front Side | 0 | 122 | 5610 | 0.02 | 0.124 | 17.38 | 19.00 | 1.452 | 93.42 | 1.070 | 0.193 | / |
| | | Level5 | 802.11n | Back Side | 0 | 122 | 5610 | 0.16 | 0.082 | 17.38 | 19.00 | 1.452 | 93.42 | 1.070 | 0.127 | / |
| Ant.7(CH1) | | Level5 | (HT40) | Left Edge | 0 | 122 | 5610 | 0.02 | 0.026 | 17.38 | 19.00 | 1.452 | 93.42 | 1.070 | 0.040 | / |
| | | Level5 | | Right Edge | 0 | 122 | 5610 | 0.09 | 0.025 | 17.38 | 19.00 | 1.452 | 93.42 | 1.070 | 0.039 | / |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Level5 | | Top Edge | 0 | 122 | 5610 | -0.04 | 0.683 | 17.38 | 19.00 | 1.452 | 93.42 | 1.070 | **1.061** | 86# |
| | | Level5 | | Bottom Edge | 0 | 122 | 5610 | -0.06 | 0.002 | 17.38 | 19.00 | 1.452 | 93.42 | 1.070 | 0.003 | / |
| | | Level6&7 | | Front Side | 0 | 122 | 5610 | -0.04 | 0.074 | 15.77 | 16.50 | 1.183 | 93.42 | 1.070 | 0.094 | / |
| | | Level6&7 | | Back Side | 0 | 122 | 5610 | -0.02 | 0.055 | 15.77 | 16.50 | 1.183 | 93.42 | 1.070 | 0.070 | / |
| | | Level6&7 | 802.11n | Left Edge | 0 | 122 | 5610 | 0.16 | 0.015 | 15.77 | 16.50 | 1.183 | 93.42 | 1.070 | 0.019 | / |
| | | Level6&7 | (HT40) | Right Edge | 0 | 122 | 5610 | -0.11 | 0.014 | 15.77 | 16.50 | 1.183 | 93.42 | 1.070 | 0.018 | / |
| | | Level6&7 | | Top Edge | 0 | 122 | 5610 | 0.13 | 0.396 | 15.77 | 16.50 | 1.183 | 93.42 | 1.070 | 0.501 | / |
| | | Level6&7 | | Bottom Edge | 0 | 122 | 5610 | -0.18 | 0.007 | 15.77 | 16.50 | 1.183 | 93.42 | 1.070 | 0.009 | / |
| | | Level8 | | Front Side | 0 | 122 | 5610 | -0.18 | 0.044 | 13.32 | 14.00 | 1.169 | 93.42 | 1.070 | 0.055 | / |
| | | Level8 | | Back Side | 0 | 122 | 5610 | -0.05 | 0.027 | 13.32 | 14.00 | 1.169 | 93.42 | 1.070 | 0.034 | / |
| | | Level8 | 802.11n | Left Edge | 0 | 122 | 5610 | 0.18 | 0.008 | 13.32 | 14.00 | 1.169 | 93.42 | 1.070 | 0.010 | / |
| | | Level8 | (HT40) | Right Edge | 0 | 122 | 5610 | -0.15 | 0.007 | 13.32 | 14.00 | 1.169 | 93.42 | 1.070 | 0.009 | / |
| | | Level8 | | Top Edge | 0 | 122 | 5610 | 0.12 | 0.216 | 13.32 | 14.00 | 1.169 | 93.42 | 1.070 | 0.270 | / |
| | | Level8 | | Bottom Edge | 0 | 122 | 5610 | 0.05 | 0.002 | 13.32 | 14.00 | 1.169 | 93.42 | 1.070 | 0.003 | / |
| | | Level5 | | Front Side | 0 | 122 | 5610 | 0.19 | 0.166 | 20.51 | 22.00 | 1.409 | 93.42 | 1.070 | 0.250 | / |
| | | Level5 | | Back Side | 0 | 122 | 5610 | 0.11 | 0.11 | 20.51 | 22.00 | 1.409 | 93.42 | 1.070 | 0.166 | / |
| | | Level5 | 802.11n | Left Edge | 0 | 122 | 5610 | -0.07 | 0.442 | 20.51 | 22.00 | 1.409 | 93.42 | 1.070 | 0.666 | / |
| | | Level5 | (HT40) | Right Edge | 0 | 122 | 5610 | 0.11 | 0.031 | 20.51 | 22.00 | 1.409 | 93.42 | 1.070 | 0.047 | / |
| | | Level5 | | Top Edge | 0 | 122 | 5610 | 0.18 | 0.54 | 20.51 | 22.00 | 1.409 | 93.42 | 1.070 | 0.814 | / |
| | | Level5 | | Bottom Edge | 0 | 122 | 5610 | -0.17 | 0.044 | 20.51 | 22.00 | 1.409 | 93.42 | 1.070 | 0.066 | / |
| | | Level6&7 | | Front Side | 0 | 122 | 5610 | 0.07 | 0.093 | 19.17 | 19.50 | 1.079 | 93.42 | 1.070 | 0.107 | / |
| | | Level6&7 | | Back Side | 0 | 122 | 5610 | 0.18 | 0.07 | 19.17 | 19.50 | 1.079 | 93.42 | 1.070 | 0.081 | / |
| Ant.2(CH0)& | | Level6&7 | 802.11n | Left Edge | 0 | 122 | 5610 | -0.09 | 0.286 | 19.17 | 19.50 | 1.079 | 93.42 | 1.070 | 0.330 | / |
| Ant.7(CH1) | | Level6&7 | (HT40) | Right Edge | 0 | 122 | 5610 | 0.11 | 0.016 | 19.17 | 19.50 | 1.079 | 93.42 | 1.070 | 0.018 | / |
| | | Level6&7 | | Top Edge | 0 | 122 | 5610 | 0.01 | 0.294 | 19.17 | 19.50 | 1.079 | 93.42 | 1.070 | 0.339 | / |
| | | Level6&7 | | Bottom Edge | 0 | 122 | 5610 | -0.04 | 0.027 | 19.17 | 19.50 | 1.079 | 93.42 | 1.070 | 0.031 | / |
| | | Level8 | | Front Side | 0 | 122 | 5610 | 0.12 | 0.055 | 16.46 | 17.00 | 1.132 | 93.42 | 1.070 | 0.067 | / |
| | | Level8 | | Back Side | 0 | 122 | 5610 | -0.08 | 0.034 | 16.46 | 17.00 | 1.132 | 93.42 | 1.070 | 0.041 | / |
| | | Level8 | 802.11n | Left Edge | 0 | 122 | 5610 | 0.09 | 0.144 | 16.46 | 17.00 | 1.132 | 93.42 | 1.070 | 0.174 | / |
| | | Level8 | (HT40) | Right Edge | 0 | 122 | 5610 | 0.15 | 0.009 | 16.46 | 17.00 | 1.132 | 93.42 | 1.070 | 0.011 | / |
| | | Level8 | | Top Edge | 0 | 122 | 5610 | 0.02 | 0.169 | 16.46 | 17.00 | 1.132 | 93.42 | 1.070 | 0.205 | / |
| | | Level8 | | Bottom Edge | 0 | 122 | 5610 | 0.01 | 0.015 | 16.46 | 17.00 | 1.132 | 93.42 | 1.070 | 0.018 | / |

Note: Refer to ANNEX C for the detailed test data for each test configuration.

## 11.24 Bluetooth

| Antenna | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | Power Drift (dB) | 1g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | Duty Cycle (%) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head** | | | | | | | | | | | | | | |
| Ant.8(CH0) | DH5 | Left Cheek | 0 | 78 | 2480 | -0.01 | 0.238 | 14.15 | 15.00 | 1.216 | 76.61 | 1.305 | **0.378** | 87# |
| | | Left Tilt | 0 | 78 | 2480 | -0.17 | 0.082 | 14.15 | 15.00 | 1.216 | 76.61 | 1.305 | 0.130 | / |
| | | Right Cheek | 0 | 78 | 2480 | -0.03 | 0.050 | 14.15 | 15.00 | 1.216 | 76.61 | 1.305 | 0.079 | / |
| | | Right Tilt | 0 | 78 | 2480 | -0.06 | 0.057 | 14.15 | 15.00 | 1.216 | 76.61 | 1.305 | 0.090 | / |
| **Body-worn** | | | | | | | | | | | | | | |
| Ant.8(CH0) | DH5 | Front Side | 15 | 78 | 2480 | -0.08 | 0.024 | 14.15 | 15.00 | 1.216 | 76.61 | 1.305 | 0.029 | / |
| | | Back Side | 15 | 78 | 2480 | -0.05 | 0.034 | 14.15 | 15.00 | 1.216 | 76.61 | 1.305 | **0.041** | 88# |
| **Hotspot** | | | | | | | | | | | | | | |
| Ant.8(CH0) | DH5 | Front Side | 10 | 78 | 2480 | 0.19 | 0.028 | 14.15 | 15.00 | 1.216 | 76.61 | 1.305 | 0.034 | / |
| | | Back Side | 10 | 78 | 2480 | -0.03 | 0.039 | 14.15 | 15.00 | 1.216 | 76.61 | 1.305 | 0.047 | / |
| | | Left Edge | 10 | 78 | 2480 | 0.19 | 0.025 | 14.15 | 15.00 | 1.216 | 76.61 | 1.305 | 0.030 | / |
| | | Right Edge | 10 | 78 | 2480 | 0.16 | 0.003 | 14.15 | 15.00 | 1.216 | 76.61 | 1.305 | 0.004 | / |
| | | Top Edge | 10 | 78 | 2480 | 0.04 | 0.084 | 14.15 | 15.00 | 1.216 | 76.61 | 1.305 | **0.102** | 89# |
| | | Bottom Edge | 10 | 78 | 2480 | -0.08 | 0.005 | 14.15 | 15.00 | 1.216 | 76.61 | 1.305 | 0.006 | / |
| Note: Refer to ANNEX C for the detailed test data for each test configuration. | | | | | | | | | | | | | | |

## 11.25 LTE Band 7 Worse case for CA Test

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Num. | RB Start | Power Drift (dB) | 1g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head-CA** | | | | | | | | | | | | | | | |
| Ant.4 | State2&4 | QPSK | Right Tilt | 0 | 21100 +21298 | 2535 +2554.8 | 1+1 | High +Low | 0.12 | 0.560 | 15.63 | 16.50 | 1.222 | 0.684 | / |
| | State2&4 | | Right Tilt | 0 | 20850 +21048 | 2510 +2529.8 | 1+1 | High +Low | -0.13 | 0.678 | 15.52 | 16.50 | 1.253 | 0.850 | / |
| | State2&4 | | Right Tilt | 0 | 21350 +21152 | 2560 +2540.2 | 1+1 | Low +High | -0.02 | 0.701 | 15.40 | 16.50 | 1.288 | 0.903 | / |
| **Body-worn-CA** | | | | | | | | | | | | | | | |
| Ant.3 | State1&3 | QPSK | Back Side | 15 | 21100+ 21298 | 2535 +2554.8 | 1+1 | High +Low | -0.02 | 0.178 | 18.77 | 19.00 | 1.054 | 0.188 | / |
| **Hotspot-CA** | | | | | | | | | | | | | | | |
| Ant.3 | State1&3 | QPSK | Bottom Edge | 10 | 21100+ 21298 | 2535 +2554.8 | 1+1 | High +Low | 0.11 | 0.488 | 18.77 | 19.00 | 1.054 | 0.514 | / |
| Note: Refer to ANNEX C for the detailed test data for each test configuration. | | | | | | | | | | | | | | | |

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Num. | RB Start | Power Drift (dB) | 10g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 10g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Specific-CA** | | | | | | | | | | | | | | | |
| Ant.3 | State1&3 | QPSK | Bottom Edge | 0 | 21100+ 21298 | 2535 +2554.8 | 1+1 | High +Low | 0.01 | 1.880 | 18.77 | 19.00 | 1.054 | 1.982 | / |
| | State1&3 | | Bottom Edge | 0 | 20850 +21048 | 2510 +2529.8 | 1+1 | High +Low | 0.03 | 1.620 | 18.65 | 19.00 | 1.084 | 1.756 | / |
| | State1&3 | | Bottom Edge | 0 | 21350 +21152 | 2560 +2540.2 | 1+1 | Low +High | -0.16 | 1.770 | 18.73 | 19.00 | 1.064 | 1.883 | / |
| Note: Refer to ANNEX C for the detailed test data for each test configuration. | | | | | | | | | | | | | | | |

## 11.26 LTE Band 38 Worse case for CA Test

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Num. | RB Start | Power Drift (dB) | 1g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head-CA** | | | | | | | | | | | | | | | |
| Ant.4 | State2&4 | QPSK | Right Tilt | 0 | 38099+ 37901 | 2604.9 +2585.1 | 1+1 | Low+ High | -0.04 | 0.314 | 15.79 | 17.50 | 1.483 | 0.466 | / |
| **Body-worn-CA** | | | | | | | | | | | | | | | |
| Ant.3 | State1&3&5 | QPSK | Back Side | 15 | 38150 +37952 | 2610 +2590.2 | 1+1 | Low +High | 0.01 | 0.239 | 21.88 | 22.00 | 1.028 | 0.246 | / |
| **Hotspot-CA** | | | | | | | | | | | | | | | |
| Ant.3 | State1&3&5 | QPSK | Bottom Edge | 10 | 38150 +37952 | 2610 +2590.2 | 1+1 | Low +High | 0.00 | 0.642 | 21.88 | 22.00 | 1.028 | 0.660 | / |
| Note: Refer to ANNEX C for the detailed test data for each test configuration. | | | | | | | | | | | | | | | |

# 11.27 LTE Band 41 Worse case for CA Test

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Num. | RB Start | Power Drift (dB) | 1g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head-CA** | | | | | | | | | | | | | | | |
| Ant.4 | State2&4 | QPSK | Right Tilt | 0 | 40620+ 40818 | 2593 +2612.8 | 1+1 | High +Low | 0.00 | 0.369 | 16.01 | 17.50 | 1.409 | 0.520 | / |
| **Body-worn-CA** | | | | | | | | | | | | | | | |
| Ant.3 | State1&3 | QPSK | Back Side | 15 | 40620 +40818 | 2593 +2612.8 | 2+1 | High +Low | 0.01 | 0.141 | 20.36 | 21.00 | 1.159 | 0.163 | / |
| **Hotspot-CA** | | | | | | | | | | | | | | | |
| Ant.3 | State1&3 | QPSK | Bottom Edge | 10 | 40620 +40818 | 2593 +2612.8 | 2+1 | High +Low | 0.03 | 0.445 | 20.36 | 21.00 | 1.159 | 0.516 | / |
| Note: Refer to ANNEX C for the detailed test data for each test configuration. | | | | | | | | | | | | | | | |

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Num. | RB Start | Power Drift (dB) | 10g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 10g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Specific-CA** | | | | | | | | | | | | | | | |
| Ant.3 | State1&3 | QPSK | Bottom Edge | 0 | 40620 +40818 | 2593 +2612.8 | 2+1 | High +Low | 0.16 | 1.110 | 20.36 | 21.00 | 1.159 | 1.286 | / |
| Note: Refer to ANNEX C for the detailed test data for each test configuration. | | | | | | | | | | | | | | | |

## 11.28 Worse case for WCMDA Band 2

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | Power Drift (dB) | 1 g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 1 g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Body-worn** | | | | | | | | | | | | | |
| Ant.4 | State1&3&5 | RMC | Back Side | 15 | 9400 | 1880 | -0.02 | 0.226 | 22.90 | 24.00 | 1.288 | 0.291 | 90# |
| Note: Refer to ANNEX C for the detailed test data for each test configuration. | | | | | | | | | | | | | |

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | Power Drift (dB) | 10 g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 10 g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **specific** | | | | | | | | | | | | | |
| Ant.4 | State1&3&5 | RMC | Top Edge | 0 | 9400 | 1880 | -0.06 | 1.620 | 21.13 | 22.50 | 1.371 | 2.221 | 91# |
| Note: Refer to ANNEX C for the detailed test data for each test configuration. | | | | | | | | | | | | | |

## 11.29 Worse case for WCMDA Band 2

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | Power Drift (dB) | 1 g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | 1 g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Hotspot** | | | | | | | | | | | | | |
| Ant.3 | State1&3 | RMC | Bottom Edge | 10 | 1312 | 1712.4 | 0.01 | 0.728 | 21.11 | 22.00 | 1.227 | 0.893 | 92# |
| Note: Refer to ANNEX C for the detailed test data for each test configuration. | | | | | | | | | | | | | |

## 11.30 Worse case for WIFI 2.4GHz

| Antenna | Power Reduction | Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | Power Setting | Power Drift (dB) | 1 g Meas SAR (W/kg) | Meas. Power (dBm) | Max. tune-power (dBm) | Scaling Factor | Duty Cycle (%) | Scaling Factor | 1 g Scaled SAR (W/kg) | Meas. No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Head** | | | | | | | | | | | | | | | | |
| Ant.8(CH0)&Ant.2(CH1) | Level1&2 | 802.11 b | Left Cheek | 0 | 1 | 2412 | 16 | 0.04 | 0.832 | 19.86 | 20.00 | 1.033 | 99.01 | 1.010 | 0.868 | 93# |
| Note: Refer to ANNEX C for the detailed test data for each test configuration. | | | | | | | | | | | | | | | | |

# 12 SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10, the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR repeated measurement procedure:

1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
2. When the highest measured SAR is >= 0.80 W/kg, repeat that measurement once.
3. If the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20, or when the original or repeated measurement is >= 1.45 W/kg, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20, and the original, first or second repeated measurement is >= 1.5 W/kg, perform a third repeated measurement.

| Frequency Band (MHz) | Wireless Band | RF Exposure Conditions | Test Position | Highest Measured SAR (W/kg) | Repeated SAR (Yes/No) | Repeated$^{1th}$ Measured SAR (W/kg) | Largest to Smallest SAR Radio |
|---|---|---|---|---|---|---|---|
| 1745 | LTE Band 4 | Hotspot | Bottom Edge | 0.823 | Yes | 0.807 | 1.02 |
| 2600 | LTE Band 7 | Specific | Bottom Edge | 2.020 | Yes | 2.000 | 1.01 |
| 2412 | WIFI 2.4GHz | Head | Left Cheek | 1.030 | Yes | 1.016 | 1.01 |
| Note: The ratio of largest to smallest SAR for the original and first repeated measurements is < 1.20, the second repeated measurement. is not required. | | | | | | | |

# 13 SIMULTANEOUS TRANSMISSION

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR 1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR 1g 1.6 W/kg), SAR test exclusion is determined by the SAR to Peak Location Ratio (SPLSR).

## 13.1 Simultaneous Transmission Mode Considerations

| No. | Simultaneous Tx Combination | Head | Body-worn | Hotspot | Specific |
|---|---|---|---|---|---|
| 1 | WWAN + 2.4G WIFI | Yes | Yes | Yes | Yes |
| 2 | WWAN + 5G WIFI + 2.4G WIFI | Yes | Yes | Yes | Yes |
| 3 | WWAN + 5G WIFI + BT | Yes | Yes | Yes | Yes |

Note:

1. WiFi 2.4G and Bluetooth share the same antenna, and can't transmit simultaneously.
2. The maximum SAR summation is calculated based on the same configuration and test position.
3. The simultaneous transmission combinations of the more antennas contain combinations of less antennas, so only the worst simultaneous transmission combinations is shown in this report.

## 13.2 Sum SAR of Simultaneous Transmission

### 13.2.1 Head Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN and Bluetooth

| Band | Antenna | Position | Stand alone SAR | | | | | | | | SUM SAR | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | |
| | | | WWAN | 2.4G WIFI (Chain0) | 2.4G WIFI (Chain1) | 2.4G WIFI (MIMO) | 5G WIFI (Chain0 MAX) | 5G WIFI (Chain1 MAX) | 5G WIFI (MIMO MAX) | Bluetooth | Sum SAR (1+2) | Sum SAR (1+4) | Sum SAR (1+3+8) | Sum SAR (1+5+8) | Sum SAR (1+6+8) | Sum SAR (1+7+8) |
| | | | STATE4 | LEVLE3 | LEVLE3 | LEVLE3 | LEVLE3 | LEVLE3 | LEVLE3 | | | | | | | |
| GSM850 | ANT1 | Left Cheek | 0.162 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.708 | 0.937 | 0.636 | 1.173 | 0.997 | 1.175 |
| | ANT1 | Left Tilt | 0.092 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.568 | 0.670 | 0.228 | 0.636 | 0.887 | 0.929 |
| | ANT1 | Right Cheek | 0.416 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.735 | 0.734 | 0.775 | 0.968 | 0.962 | 0.968 |
| | ANT1 | Right Tilt | 0.183 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.580 | 0.611 | 0.279 | 0.458 | 0.764 | 0.757 |
| GSM850 | ANT0 | Left Cheek | 0.180 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.726 | 0.955 | 0.654 | 1.191 | 1.015 | 1.193 |
| | ANT0 | Left Tilt | 0.103 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.579 | 0.681 | 0.239 | 0.647 | 0.898 | 0.940 |
| | ANT0 | Right Cheek | 0.166 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.485 | 0.484 | 0.525 | 0.718 | 0.712 | 0.718 |
| | ANT0 | Right Tilt | 0.097 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.494 | 0.525 | 0.193 | 0.372 | 0.678 | 0.671 |
| GSM1900 | ANT4 | Left Cheek | 0.033 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.579 | 0.808 | 0.507 | 1.044 | 0.868 | 1.046 |
| | ANT4 | Left Tilt | 0.023 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.499 | 0.601 | 0.159 | 0.567 | 0.818 | 0.860 |
| | ANT4 | Right Cheek | 0.644 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.963 | 0.962 | 1.003 | 1.196 | 1.190 | 1.196 |
| | ANT4 | Right Tilt | 0.911 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 1.308 | 1.339 | 1.007 | 1.186 | 1.492 | 1.485 |
| GSM1900 | ANT3 | Left Cheek | 0.109 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.655 | 0.884 | 0.583 | 1.120 | 0.944 | 1.122 |
| | ANT3 | Left Tilt | 0.074 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.550 | 0.652 | 0.210 | 0.618 | 0.869 | 0.911 |
| | ANT3 | Right Cheek | 0.103 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.422 | 0.421 | 0.462 | 0.655 | 0.649 | 0.655 |
| | ANT3 | Right Tilt | 0.068 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.465 | 0.496 | 0.164 | 0.343 | 0.649 | 0.642 |
| WCDMA B2 | ANT4 | Left Cheek | 0.577 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 1.123 | 1.352 | 1.051 | 1.588 | 1.412 | **1.590** |
| | ANT4 | Left Tilt | 0.710 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 1.186 | 1.288 | 0.846 | 1.254 | 1.505 | 1.547 |
| | ANT4 | Right Cheek | 1.029 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 1.348 | 1.347 | 1.388 | 1.581 | 1.575 | 1.581 |
| | ANT4 | Right Tilt | 0.749 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 1.146 | 1.177 | 0.845 | 1.024 | 1.330 | 1.323 |
| WCDMA B2 | ANT3 | Left Cheek | 0.079 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.625 | 0.854 | 0.553 | 1.090 | 0.914 | 1.092 |
| | ANT3 | Left Tilt | 0.000 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.476 | 0.578 | 0.136 | 0.544 | 0.795 | 0.837 |
| | ANT3 | Right Cheek | 0.087 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.406 | 0.405 | 0.446 | 0.639 | 0.633 | 0.639 |
| | ANT3 | Right Tilt | 0.046 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.443 | 0.474 | 0.142 | 0.321 | 0.627 | 0.620 |
| WCDMA B4 | ANT4 | Left Cheek | 0.271 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.817 | 1.046 | 0.745 | 1.282 | 1.106 | 1.284 |
| | ANT4 | Left Tilt | 0.358 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.834 | 0.936 | 0.494 | 0.902 | 1.153 | 1.195 |
| | ANT4 | Right Cheek | 0.421 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.740 | 0.739 | 0.780 | 0.973 | 0.967 | 0.973 |
| | ANT4 | Right Tilt | 0.501 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.898 | 0.929 | 0.597 | 0.776 | 1.082 | 1.075 |
| WCDMA B4 | ANT3 | Left Cheek | 0.132 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.678 | 0.907 | 0.606 | 1.143 | 0.967 | 1.145 |
| | ANT3 | Left Tilt | 0.000 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.476 | 0.578 | 0.136 | 0.544 | 0.795 | 0.837 |
| | ANT3 | Right Cheek | 0.140 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.459 | 0.458 | 0.499 | 0.692 | 0.686 | 0.692 |
| | ANT3 | Right Tilt | 0.059 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.456 | 0.487 | 0.155 | 0.334 | 0.640 | 0.633 |
| WCDMA B5 | ANT4 | Left Cheek | 0.144 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.690 | 0.919 | 0.618 | 1.155 | 0.979 | 1.157 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ANT4 | Left Tilt | 0.081 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.557 | 0.659 | 0.217 | 0.625 | 0.876 | 0.918 |
| | ANT4 | Right Cheek | 0.299 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.618 | 0.617 | 0.658 | 0.851 | 0.845 | 0.851 |
| | ANT4 | Right Tilt | 0.160 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.557 | 0.588 | 0.256 | 0.435 | 0.741 | 0.734 |
| WCDMA B5 | ANT3 | Left Cheek | 0.122 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.668 | 0.897 | 0.596 | 1.133 | 0.957 | 1.135 |
| | ANT3 | Left Tilt | 0.070 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.546 | 0.648 | 0.206 | 0.614 | 0.865 | 0.907 |
| | ANT3 | Right Cheek | 0.089 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.408 | 0.407 | 0.448 | 0.641 | 0.635 | 0.641 |
| | ANT3 | Right Tilt | 0.041 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.438 | 0.469 | 0.137 | 0.316 | 0.622 | 0.615 |
| LTE B2 | ANT4 | Left Cheek | 0.425 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.971 | 1.200 | 0.899 | 1.436 | 1.260 | 1.438 |
| | ANT4 | Left Tilt | 0.474 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.950 | 1.052 | 0.610 | 1.018 | 1.269 | 1.311 |
| | ANT4 | Right Cheek | 0.705 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 1.024 | 1.023 | 1.064 | 1.257 | 1.251 | 1.257 |
| | ANT4 | Right Tilt | 0.747 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 1.144 | 1.175 | 0.843 | 1.022 | 1.328 | 1.321 |
| LTE B2 | ANT3 | Left Cheek | 0.080 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.626 | 0.855 | 0.554 | 1.091 | 0.915 | 1.093 |
| | ANT3 | Left Tilt | 0.012 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.488 | 0.590 | 0.148 | 0.556 | 0.807 | 0.849 |
| | ANT3 | Right Cheek | 0.074 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.393 | 0.392 | 0.433 | 0.626 | 0.620 | 0.626 |
| | ANT3 | Right Tilt | 0.041 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.438 | 0.469 | 0.137 | 0.316 | 0.622 | 0.615 |
| LTE B4 | ANT4 | Left Cheek | 0.126 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.672 | 0.901 | 0.600 | 1.137 | 0.961 | 1.139 |
| | ANT4 | Left Tilt | 0.163 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.639 | 0.741 | 0.299 | 0.707 | 0.958 | 1.000 |
| | ANT4 | Right Cheek | 0.223 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.542 | 0.541 | 0.582 | 0.775 | 0.769 | 0.775 |
| | ANT4 | Right Tilt | 0.228 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.625 | 0.656 | 0.324 | 0.503 | 0.809 | 0.802 |
| LTE B4 | ANT3 | Left Cheek | 0.113 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.659 | 0.888 | 0.587 | 1.124 | 0.948 | 1.126 |
| | ANT3 | Left Tilt | 0.157 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.633 | 0.735 | 0.293 | 0.701 | 0.952 | 0.994 |
| | ANT3 | Right Cheek | 0.178 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.497 | 0.496 | 0.537 | 0.730 | 0.724 | 0.730 |
| | ANT3 | Right Tilt | 0.217 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.614 | 0.645 | 0.313 | 0.492 | 0.798 | 0.791 |
| LTE B5 | ANT1 | Left Cheek | 0.163 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.709 | 0.938 | 0.637 | 1.174 | 0.998 | 1.176 |
| | ANT1 | Left Tilt | 0.094 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.570 | 0.672 | 0.230 | 0.638 | 0.889 | 0.931 |
| | ANT1 | Right Cheek | 0.342 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.661 | 0.660 | 0.701 | 0.894 | 0.888 | 0.894 |
| | ANT1 | Right Tilt | 0.179 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.576 | 0.607 | 0.275 | 0.454 | 0.760 | 0.753 |
| LTE B5 | ANT0 | Left Cheek | 0.144 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.690 | 0.919 | 0.618 | 1.155 | 0.979 | 1.157 |
| | ANT0 | Left Tilt | 0.078 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.554 | 0.656 | 0.214 | 0.622 | 0.873 | 0.915 |
| | ANT0 | Right Cheek | 0.099 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.418 | 0.417 | 0.458 | 0.651 | 0.645 | 0.651 |
| | ANT0 | Right Tilt | 0.029 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.426 | 0.457 | 0.125 | 0.304 | 0.610 | 0.603 |
| LTE B7 | ANT4 | Left Cheek | 0.491 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 1.037 | 1.266 | 0.965 | 1.502 | 1.326 | 1.504 |
| | ANT4 | Left Tilt | 0.538 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 1.014 | 1.116 | 0.674 | 1.082 | 1.333 | 1.375 |
| | ANT4 | Right Cheek | 0.660 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.979 | 0.978 | 1.019 | 1.212 | 1.206 | 1.212 |
| | ANT4 | Right Tilt | 1.007 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 1.404 | 1.435 | 1.103 | 1.282 | 1.588 | 1.581 |
| LTE B7 | ANT3 | Left Cheek | 0.201 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.747 | 0.976 | 0.675 | 1.212 | 1.036 | 1.214 |
| | ANT3 | Left Tilt | 0.106 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.582 | 0.684 | 0.242 | 0.650 | 0.901 | 0.943 |
| | ANT3 | Right Cheek | 0.216 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.535 | 0.534 | 0.575 | 0.768 | 0.762 | 0.768 |
| | ANT3 | Right Tilt | 0.087 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.484 | 0.515 | 0.183 | 0.362 | 0.668 | 0.661 |
| LTE B12 | ANT1 | Left Cheek | 0.078 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.624 | 0.853 | 0.552 | 1.089 | 0.913 | 1.091 |
| | ANT1 | Left Tilt | 0.041 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.517 | 0.619 | 0.177 | 0.585 | 0.836 | 0.878 |
| | ANT1 | Right Cheek | 0.186 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.505 | 0.504 | 0.545 | 0.738 | 0.732 | 0.738 |
| | ANT1 | Right Tilt | 0.071 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.468 | 0.499 | 0.167 | 0.346 | 0.652 | 0.645 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LTE B12 | ANT0 | Left Cheek | 0.099 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.645 | 0.874 | 0.573 | 1.110 | 0.934 | 1.112 |
| | ANT0 | Left Tilt | 0.029 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.505 | 0.607 | 0.165 | 0.573 | 0.824 | 0.866 |
| | ANT0 | Right Cheek | 0.077 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.396 | 0.395 | 0.436 | 0.629 | 0.623 | 0.629 |
| | ANT0 | Right Tilt | 0.056 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.453 | 0.484 | 0.152 | 0.331 | 0.637 | 0.630 |
| LTE B13 | ANT1 | Left Cheek | 0.065 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.611 | 0.840 | 0.539 | 1.076 | 0.900 | 1.078 |
| | ANT1 | Left Tilt | 0.040 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.516 | 0.618 | 0.176 | 0.584 | 0.835 | 0.877 |
| | ANT1 | Right Cheek | 0.138 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.457 | 0.456 | 0.497 | 0.690 | 0.684 | 0.690 |
| | ANT1 | Right Tilt | 0.060 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.457 | 0.488 | 0.156 | 0.335 | 0.641 | 0.634 |
| LTE B13 | ANT0 | Left Cheek | 0.062 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.608 | 0.837 | 0.536 | 1.073 | 0.897 | 1.075 |
| | ANT0 | Left Tilt | 0.048 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.524 | 0.626 | 0.184 | 0.592 | 0.843 | 0.885 |
| | ANT0 | Right Cheek | 0.074 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.393 | 0.392 | 0.433 | 0.626 | 0.620 | 0.626 |
| | ANT0 | Right Tilt | 0.050 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.447 | 0.478 | 0.146 | 0.325 | 0.631 | 0.624 |
| LTE B17 | ANT1 | Left Cheek | 0.067 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.613 | 0.842 | 0.541 | 1.078 | 0.902 | 1.080 |
| | ANT1 | Left Tilt | 0.032 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.508 | 0.610 | 0.168 | 0.576 | 0.827 | 0.869 |
| | ANT1 | Right Cheek | 0.145 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.464 | 0.463 | 0.504 | 0.697 | 0.691 | 0.697 |
| | ANT1 | Right Tilt | 0.077 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.474 | 0.505 | 0.173 | 0.352 | 0.658 | 0.651 |
| LTE B17 | ANT0 | Left Cheek | 0.095 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.641 | 0.870 | 0.569 | 1.106 | 0.930 | 1.108 |
| | ANT0 | Left Tilt | 0.046 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.522 | 0.624 | 0.182 | 0.590 | 0.841 | 0.883 |
| | ANT0 | Right Cheek | 0.079 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.398 | 0.397 | 0.438 | 0.631 | 0.625 | 0.631 |
| | ANT0 | Right Tilt | 0.044 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.441 | 0.472 | 0.140 | 0.319 | 0.625 | 0.618 |
| LTE B26 | ANT1 | Left Cheek | 0.147 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.693 | 0.922 | 0.621 | 1.158 | 0.982 | 1.160 |
| | ANT1 | Left Tilt | 0.085 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.561 | 0.663 | 0.221 | 0.629 | 0.880 | 0.922 |
| | ANT1 | Right Cheek | 0.295 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.614 | 0.613 | 0.654 | 0.847 | 0.841 | 0.847 |
| | ANT1 | Right Tilt | 0.156 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.553 | 0.584 | 0.252 | 0.431 | 0.737 | 0.730 |
| LTE B26 | ANT0 | Left Cheek | 0.140 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.686 | 0.915 | 0.614 | 1.151 | 0.975 | 1.153 |
| | ANT0 | Left Tilt | 0.077 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.553 | 0.655 | 0.213 | 0.621 | 0.872 | 0.914 |
| | ANT0 | Right Cheek | 0.104 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.423 | 0.422 | 0.463 | 0.656 | 0.650 | 0.656 |
| | ANT0 | Right Tilt | 0.066 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.463 | 0.494 | 0.162 | 0.341 | 0.647 | 0.640 |
| LTE B66 | ANT4 | Left Cheek | 0.164 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.710 | 0.939 | 0.638 | 1.175 | 0.999 | 1.177 |
| | ANT4 | Left Tilt | 0.198 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.674 | 0.776 | 0.334 | 0.742 | 0.993 | 1.035 |
| | ANT4 | Right Cheek | 0.213 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.532 | 0.531 | 0.572 | 0.765 | 0.759 | 0.765 |
| | ANT4 | Right Tilt | 0.239 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.636 | 0.667 | 0.335 | 0.514 | 0.820 | 0.813 |
| LTE B66 | ANT3 | Left Cheek | 0.165 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.711 | 0.940 | 0.639 | 1.176 | 1.000 | 1.178 |
| | ANT3 | Left Tilt | 0.063 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.539 | 0.641 | 0.199 | 0.607 | 0.858 | 0.900 |
| | ANT3 | Right Cheek | 0.145 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.464 | 0.463 | 0.504 | 0.697 | 0.691 | 0.697 |
| | ANT3 | Right Tilt | 0.078 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.475 | 0.506 | 0.174 | 0.353 | 0.659 | 0.652 |
| LTE B38 | ANT4 | Left Cheek | 0.280 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.826 | 1.055 | 0.754 | 1.291 | 1.115 | 1.293 |
| | ANT4 | Left Tilt | 0.365 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.841 | 0.943 | 0.501 | 0.909 | 1.160 | 1.202 |
| | ANT4 | Right Cheek | 0.414 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.733 | 0.732 | 0.773 | 0.966 | 0.960 | 0.966 |
| | ANT4 | Right Tilt | 0.567 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.964 | 0.995 | 0.663 | 0.842 | 1.148 | 1.141 |
| LTE B38 | ANT3 | Left Cheek | 0.136 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.682 | 0.911 | 0.610 | 1.147 | 0.971 | 1.149 |
| | ANT3 | Left Tilt | 0.054 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.530 | 0.632 | 0.190 | 0.598 | 0.849 | 0.891 |
| | ANT3 | Right Cheek | 0.106 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.425 | 0.424 | 0.465 | 0.658 | 0.652 | 0.658 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ANT3 | Right Tilt | 0.053 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.450 | 0.481 | 0.149 | 0.328 | 0.634 | 0.627 |
| LTE B41 | ANT4 | Left Cheek | 0.488 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 1.034 | 1.263 | 0.962 | 1.499 | 1.323 | 1.501 |
| | ANT4 | Left Tilt | 0.594 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 1.070 | 1.172 | 0.730 | 1.138 | 1.389 | 1.431 |
| | ANT4 | Right Cheek | 0.617 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.936 | 0.935 | 0.976 | 1.169 | 1.163 | 1.169 |
| | ANT4 | Right Tilt | 0.676 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 1.073 | 1.104 | 0.772 | 0.951 | 1.257 | 1.250 |
| LTE B41 | ANT3 | Left Cheek | 0.122 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.668 | 0.897 | 0.596 | 1.133 | 0.957 | 1.135 |
| | ANT3 | Left Tilt | 0.055 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.531 | 0.633 | 0.191 | 0.599 | 0.850 | 0.892 |
| | ANT3 | Right Cheek | 0.094 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.413 | 0.412 | 0.453 | 0.646 | 0.640 | 0.646 |
| | ANT3 | Right Tilt | 0.051 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.448 | 0.479 | 0.147 | 0.326 | 0.632 | 0.625 |
| N5 | ANT1 | Left Cheek | 0.193 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.739 | 0.968 | 0.667 | 1.204 | 1.028 | 1.206 |
| | ANT1 | Left Tilt | 0.105 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.581 | 0.683 | 0.241 | 0.649 | 0.900 | 0.942 |
| | ANT1 | Right Cheek | 0.329 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.648 | 0.647 | 0.688 | 0.881 | 0.875 | 0.881 |
| | ANT1 | Right Tilt | 0.210 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.607 | 0.638 | 0.306 | 0.485 | 0.791 | 0.784 |
| N5 | ANT0 | Left Cheek | 0.092 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.638 | 0.867 | 0.566 | 1.103 | 0.927 | 1.105 |
| | ANT0 | Left Tilt | 0.034 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.510 | 0.612 | 0.170 | 0.578 | 0.829 | 0.871 |
| | ANT0 | Right Cheek | 0.067 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.386 | 0.385 | 0.426 | 0.619 | 0.613 | 0.619 |
| | ANT0 | Right Tilt | 0.050 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.447 | 0.478 | 0.146 | 0.325 | 0.631 | 0.624 |
| N7 | ANT4 | Left Cheek | 0.358 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.904 | 1.133 | 0.832 | 1.369 | 1.193 | 1.371 |
| | ANT4 | Left Tilt | 0.424 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.900 | 1.002 | 0.560 | 0.968 | 1.219 | 1.261 |
| | ANT4 | Right Cheek | 0.499 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.818 | 0.817 | 0.858 | 1.051 | 1.045 | 1.051 |
| | ANT4 | Right Tilt | 0.779 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 1.176 | 1.207 | 0.875 | 1.054 | 1.360 | 1.353 |
| N7 | ANT3 | Left Cheek | 0.058 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.604 | 0.833 | 0.532 | 1.069 | 0.893 | 1.071 |
| | ANT3 | Left Tilt | 0.031 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.507 | 0.609 | 0.167 | 0.575 | 0.826 | 0.868 |
| | ANT3 | Right Cheek | 0.134 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.453 | 0.452 | 0.493 | 0.686 | 0.680 | 0.686 |
| | ANT3 | Right Tilt | 0.064 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.461 | 0.492 | 0.160 | 0.339 | 0.645 | 0.638 |
| N38 | ANT4 | Left Cheek | 0.557 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 1.103 | 1.332 | 1.031 | 1.568 | 1.392 | 1.570 |
| | ANT4 | Left Tilt | 0.711 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 1.187 | 1.289 | 0.847 | 1.255 | 1.506 | 1.548 |
| | ANT4 | Right Cheek | 0.731 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 1.050 | 1.049 | 1.090 | 1.283 | 1.277 | 1.283 |
| | ANT4 | Right Tilt | 0.819 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 1.216 | 1.247 | 0.915 | 1.094 | 1.400 | 1.393 |
| N38 | ANT3 | Left Cheek | 0.040 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.586 | 0.815 | 0.514 | 1.051 | 0.875 | 1.053 |
| | ANT3 | Left Tilt | 0.047 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.523 | 0.625 | 0.183 | 0.591 | 0.842 | 0.884 |
| | ANT3 | Right Cheek | 0.057 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.376 | 0.375 | 0.416 | 0.609 | 0.603 | 0.609 |
| | ANT3 | Right Tilt | 0.024 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.421 | 0.452 | 0.120 | 0.299 | 0.605 | 0.598 |
| N41 | ANT4 | Left Cheek | 0.239 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.785 | 1.014 | 0.713 | 1.250 | 1.074 | 1.252 |
| | ANT4 | Left Tilt | 0.262 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.738 | 0.840 | 0.398 | 0.806 | 1.057 | 1.099 |
| | ANT4 | Right Cheek | 0.349 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.668 | 0.667 | 0.708 | 0.901 | 0.895 | 0.901 |
| | ANT4 | Right Tilt | 0.499 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.896 | 0.927 | 0.595 | 0.774 | 1.080 | 1.073 |
| N41 | ANT3 | Left Cheek | 0.047 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.593 | 0.822 | 0.521 | 1.058 | 0.882 | 1.060 |
| | ANT3 | Left Tilt | 0.053 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.529 | 0.631 | 0.189 | 0.597 | 0.848 | 0.890 |
| | ANT3 | Right Cheek | 0.084 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.403 | 0.402 | 0.443 | 0.636 | 0.630 | 0.636 |
| | ANT3 | Right Tilt | 0.041 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.438 | 0.469 | 0.137 | 0.316 | 0.622 | 0.615 |
| N66 | ANT4 | Left Cheek | 0.134 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.680 | 0.909 | 0.608 | 1.145 | 0.969 | 1.147 |
| | ANT4 | Left Tilt | 0.178 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.654 | 0.756 | 0.314 | 0.722 | 0.973 | 1.015 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ANT4 | Right Cheek | 0.217 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.536 | 0.535 | 0.576 | 0.769 | 0.763 | 0.769 |
| | ANT4 | Right Tilt | 0.225 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.622 | 0.653 | 0.321 | 0.500 | 0.806 | 0.799 |
| N66 | ANT3 | Left Cheek | 0.098 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.644 | 0.873 | 0.572 | 1.109 | 0.933 | 1.111 |
| | ANT3 | Left Tilt | 0.062 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.538 | 0.640 | 0.198 | 0.606 | 0.857 | 0.899 |
| | ANT3 | Right Cheek | 0.147 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.466 | 0.465 | 0.506 | 0.699 | 0.693 | 0.699 |
| | ANT3 | Right Tilt | 0.075 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.472 | 0.503 | 0.171 | 0.350 | 0.656 | 0.649 |

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 1.59 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

## 13.2.2 Head Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN and Bluetooth

| Band | Antenna | Position | Stand alone SAR | | | | | SUM SAR | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 | 5 | | |
| | | | WWAN | WWAN | 2.4G WIFI (Chain0) | 5G WIFI (Chain1 MAX) | Bluetooth | Sum SAR (1+5) | Sum SAR (2+3+4) |
| | | | STATE2 | STATE6 | LEVEL4 | LEVEL4 | | | |
| GSM850 | ANT1 | Left Cheek | 0.162 | 0.162 | 0.351 | 0.163 | 0.378 | 0.540 | 0.676 |
| | ANT1 | Left Tilt | 0.092 | 0.092 | 0.316 | 0.272 | 0.130 | 0.222 | 0.680 |
| | ANT1 | Right Cheek | 0.416 | 0.416 | 0.210 | 0.180 | 0.079 | 0.495 | 0.806 |
| | ANT1 | Right Tilt | 0.183 | 0.183 | 0.276 | 0.192 | 0.090 | 0.273 | 0.651 |
| GSM850 | ANT0 | Left Cheek | 0.180 | 0.180 | 0.351 | 0.163 | 0.378 | 0.558 | 0.694 |
| | ANT0 | Left Tilt | 0.103 | 0.103 | 0.316 | 0.272 | 0.130 | 0.233 | 0.691 |
| | ANT0 | Right Cheek | 0.166 | 0.166 | 0.210 | 0.180 | 0.079 | 0.245 | 0.556 |
| | ANT0 | Right Tilt | 0.097 | 0.097 | 0.276 | 0.192 | 0.090 | 0.187 | 0.565 |
| GSM1900 | ANT4 | Left Cheek | 0.033 | 0.026 | 0.351 | 0.163 | 0.378 | 0.411 | 0.540 |
| | ANT4 | Left Tilt | 0.023 | 0.018 | 0.316 | 0.272 | 0.130 | 0.153 | 0.606 |
| | ANT4 | Right Cheek | 0.644 | 0.507 | 0.210 | 0.180 | 0.079 | 0.723 | 0.897 |
| | ANT4 | Right Tilt | 0.911 | 0.676 | 0.276 | 0.192 | 0.090 | 1.001 | 1.144 |
| GSM1900 | ANT3 | Left Cheek | 0.109 | 0.109 | 0.351 | 0.163 | 0.378 | 0.487 | 0.623 |
| | ANT3 | Left Tilt | 0.074 | 0.074 | 0.316 | 0.272 | 0.130 | 0.204 | 0.662 |
| | ANT3 | Right Cheek | 0.103 | 0.103 | 0.210 | 0.180 | 0.079 | 0.182 | 0.493 |
| | ANT3 | Right Tilt | 0.068 | 0.068 | 0.276 | 0.192 | 0.090 | 0.158 | 0.536 |
| WCDMA B2 | ANT4 | Left Cheek | 0.577 | 0.487 | 0.351 | 0.163 | 0.378 | 0.955 | 1.001 |
| | ANT4 | Left Tilt | 0.710 | 0.545 | 0.316 | 0.272 | 0.130 | 0.840 | 1.133 |
| | ANT4 | Right Cheek | 1.029 | 0.771 | 0.210 | 0.180 | 0.079 | 1.108 | 1.161 |
| | ANT4 | Right Tilt | 0.749 | 0.571 | 0.276 | 0.192 | 0.090 | 0.839 | 1.039 |
| WCDMA B2 | ANT3 | Left Cheek | 0.079 | 0.079 | 0.351 | 0.163 | 0.378 | 0.457 | 0.593 |
| | ANT3 | Left Tilt | 0.000 | 0.000 | 0.316 | 0.272 | 0.130 | 0.130 | 0.588 |
| | ANT3 | Right Cheek | 0.087 | 0.087 | 0.210 | 0.180 | 0.079 | 0.166 | 0.477 |
| | ANT3 | Right Tilt | 0.046 | 0.046 | 0.276 | 0.192 | 0.090 | 0.136 | 0.514 |
| WCDMA B4 | ANT4 | Left Cheek | 0.271 | 0.216 | 0.351 | 0.163 | 0.378 | 0.649 | 0.730 |
| | ANT4 | Left Tilt | 0.358 | 0.286 | 0.316 | 0.272 | 0.130 | 0.488 | 0.874 |
| | ANT4 | Right Cheek | 0.421 | 0.336 | 0.210 | 0.180 | 0.079 | 0.500 | 0.726 |
| | ANT4 | Right Tilt | 0.501 | 0.347 | 0.276 | 0.192 | 0.090 | 0.591 | 0.815 |
| WCDMA B4 | ANT3 | Left Cheek | 0.132 | 0.132 | 0.351 | 0.163 | 0.378 | 0.510 | 0.646 |
| | ANT3 | Left Tilt | 0.000 | 0.000 | 0.316 | 0.272 | 0.130 | 0.130 | 0.588 |
| | ANT3 | Right Cheek | 0.140 | 0.140 | 0.210 | 0.180 | 0.079 | 0.219 | 0.530 |
| | ANT3 | Right Tilt | 0.059 | 0.059 | 0.276 | 0.192 | 0.090 | 0.149 | 0.527 |
| WCDMA B5 | ANT4 | Left Cheek | 0.144 | 0.144 | 0.351 | 0.163 | 0.378 | 0.522 | 0.658 |
| | ANT4 | Left Tilt | 0.081 | 0.081 | 0.316 | 0.272 | 0.130 | 0.211 | 0.669 |
| | ANT4 | Right Cheek | 0.299 | 0.299 | 0.210 | 0.180 | 0.079 | 0.378 | 0.689 |
| | ANT4 | Right Tilt | 0.160 | 0.160 | 0.276 | 0.192 | 0.090 | 0.250 | 0.628 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| WCDMA B5 | ANT3 | Left Cheek | 0.122 | 0.122 | 0.351 | 0.163 | 0.378 | 0.500 | 0.636 |
| | ANT3 | Left Tilt | 0.070 | 0.070 | 0.316 | 0.272 | 0.130 | 0.200 | 0.658 |
| | ANT3 | Right Cheek | 0.089 | 0.089 | 0.210 | 0.180 | 0.079 | 0.168 | 0.479 |
| | ANT3 | Right Tilt | 0.041 | 0.041 | 0.276 | 0.192 | 0.090 | 0.131 | 0.509 |
| LTE B2 | ANT4 | Left Cheek | 0.425 | 0.425 | 0.351 | 0.163 | 0.378 | 0.803 | 0.939 |
| | ANT4 | Left Tilt | 0.474 | 0.474 | 0.316 | 0.272 | 0.130 | 0.604 | 1.062 |
| | ANT4 | Right Cheek | 0.705 | 0.705 | 0.210 | 0.180 | 0.079 | 0.784 | 1.095 |
| | ANT4 | Right Tilt | 0.747 | 0.747 | 0.276 | 0.192 | 0.090 | 0.837 | 1.215 |
| LTE B2 | ANT3 | Left Cheek | 0.080 | 0.080 | 0.351 | 0.163 | 0.378 | 0.458 | 0.594 |
| | ANT3 | Left Tilt | 0.012 | 0.012 | 0.316 | 0.272 | 0.130 | 0.142 | 0.600 |
| | ANT3 | Right Cheek | 0.074 | 0.074 | 0.210 | 0.180 | 0.079 | 0.153 | 0.464 |
| | ANT3 | Right Tilt | 0.041 | 0.041 | 0.276 | 0.192 | 0.090 | 0.131 | 0.509 |
| LTE B4 | ANT4 | Left Cheek | 0.126 | 0.126 | 0.351 | 0.163 | 0.378 | 0.504 | 0.640 |
| | ANT4 | Left Tilt | 0.163 | 0.163 | 0.316 | 0.272 | 0.130 | 0.293 | 0.751 |
| | ANT4 | Right Cheek | 0.223 | 0.223 | 0.210 | 0.180 | 0.079 | 0.302 | 0.613 |
| | ANT4 | Right Tilt | 0.228 | 0.228 | 0.276 | 0.192 | 0.090 | 0.318 | 0.696 |
| LTE B4 | ANT3 | Left Cheek | 0.113 | 0.113 | 0.351 | 0.163 | 0.378 | 0.491 | 0.627 |
| | ANT3 | Left Tilt | 0.157 | 0.157 | 0.316 | 0.272 | 0.130 | 0.287 | 0.745 |
| | ANT3 | Right Cheek | 0.178 | 0.178 | 0.210 | 0.180 | 0.079 | 0.257 | 0.568 |
| | ANT3 | Right Tilt | 0.217 | 0.217 | 0.276 | 0.192 | 0.090 | 0.307 | 0.685 |
| LTE B5 | ANT1 | Left Cheek | 0.163 | 0.163 | 0.351 | 0.163 | 0.378 | 0.541 | 0.677 |
| | ANT1 | Left Tilt | 0.094 | 0.094 | 0.316 | 0.272 | 0.130 | 0.224 | 0.682 |
| | ANT1 | Right Cheek | 0.342 | 0.342 | 0.210 | 0.180 | 0.079 | 0.421 | 0.732 |
| | ANT1 | Right Tilt | 0.179 | 0.179 | 0.276 | 0.192 | 0.090 | 0.269 | 0.647 |
| LTE B5 | ANT0 | Left Cheek | 0.144 | 0.144 | 0.351 | 0.163 | 0.378 | 0.522 | 0.658 |
| | ANT0 | Left Tilt | 0.078 | 0.078 | 0.316 | 0.272 | 0.130 | 0.208 | 0.666 |
| | ANT0 | Right Cheek | 0.099 | 0.099 | 0.210 | 0.180 | 0.079 | 0.178 | 0.489 |
| | ANT0 | Right Tilt | 0.029 | 0.029 | 0.276 | 0.192 | 0.090 | 0.119 | 0.497 |
| LTE B7 | ANT4 | Left Cheek | 0.491 | 0.491 | 0.351 | 0.163 | 0.378 | 0.869 | 1.005 |
| | ANT4 | Left Tilt | 0.538 | 0.538 | 0.316 | 0.272 | 0.130 | 0.668 | 1.126 |
| | ANT4 | Right Cheek | 0.660 | 0.660 | 0.210 | 0.180 | 0.079 | 0.739 | 1.050 |
| | ANT4 | Right Tilt | 1.007 | 1.007 | 0.276 | 0.192 | 0.090 | 1.097 | **1.475** |
| LTE B7 | ANT3 | Left Cheek | 0.201 | 0.201 | 0.351 | 0.163 | 0.378 | 0.579 | 0.715 |
| | ANT3 | Left Tilt | 0.106 | 0.106 | 0.316 | 0.272 | 0.130 | 0.236 | 0.694 |
| | ANT3 | Right Cheek | 0.216 | 0.216 | 0.210 | 0.180 | 0.079 | 0.295 | 0.606 |
| | ANT3 | Right Tilt | 0.087 | 0.087 | 0.276 | 0.192 | 0.090 | 0.177 | 0.555 |
| LTE B12 | ANT1 | Left Cheek | 0.078 | 0.078 | 0.351 | 0.163 | 0.378 | 0.456 | 0.592 |
| | ANT1 | Left Tilt | 0.041 | 0.041 | 0.316 | 0.272 | 0.130 | 0.171 | 0.629 |
| | ANT1 | Right Cheek | 0.186 | 0.186 | 0.210 | 0.180 | 0.079 | 0.265 | 0.576 |
| | ANT1 | Right Tilt | 0.071 | 0.071 | 0.276 | 0.192 | 0.090 | 0.161 | 0.539 |
| LTE B12 | ANT0 | Left Cheek | 0.099 | 0.099 | 0.351 | 0.163 | 0.378 | 0.477 | 0.613 |
| | ANT0 | Left Tilt | 0.029 | 0.029 | 0.316 | 0.272 | 0.130 | 0.159 | 0.617 |
| | ANT0 | Right Cheek | 0.077 | 0.077 | 0.210 | 0.180 | 0.079 | 0.156 | 0.467 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | ANT0 | Right Tilt | 0.056 | 0.056 | 0.276 | 0.192 | 0.090 | 0.146 | 0.524 |
| LTE B13 | ANT1 | Left Cheek | 0.065 | 0.069 | 0.351 | 0.163 | 0.378 | 0.443 | 0.583 |
| | ANT1 | Left Tilt | 0.040 | 0.042 | 0.316 | 0.272 | 0.130 | 0.170 | 0.630 |
| | ANT1 | Right Cheek | 0.138 | 0.145 | 0.210 | 0.180 | 0.079 | 0.217 | 0.535 |
| | ANT1 | Right Tilt | 0.060 | 0.063 | 0.276 | 0.192 | 0.090 | 0.150 | 0.531 |
| LTE B13 | ANT0 | Left Cheek | 0.062 | 0.062 | 0.351 | 0.163 | 0.378 | 0.440 | 0.576 |
| | ANT0 | Left Tilt | 0.048 | 0.047 | 0.316 | 0.272 | 0.130 | 0.178 | 0.635 |
| | ANT0 | Right Cheek | 0.074 | 0.074 | 0.210 | 0.180 | 0.079 | 0.153 | 0.464 |
| | ANT0 | Right Tilt | 0.050 | 0.050 | 0.276 | 0.192 | 0.090 | 0.140 | 0.518 |
| LTE B17 | ANT1 | Left Cheek | 0.067 | 0.067 | 0.351 | 0.163 | 0.378 | 0.445 | 0.581 |
| | ANT1 | Left Tilt | 0.032 | 0.032 | 0.316 | 0.272 | 0.130 | 0.162 | 0.620 |
| | ANT1 | Right Cheek | 0.145 | 0.145 | 0.210 | 0.180 | 0.079 | 0.224 | 0.535 |
| | ANT1 | Right Tilt | 0.077 | 0.077 | 0.276 | 0.192 | 0.090 | 0.167 | 0.545 |
| LTE B17 | ANT0 | Left Cheek | 0.095 | 0.095 | 0.351 | 0.163 | 0.378 | 0.473 | 0.609 |
| | ANT0 | Left Tilt | 0.046 | 0.046 | 0.316 | 0.272 | 0.130 | 0.176 | 0.634 |
| | ANT0 | Right Cheek | 0.079 | 0.079 | 0.210 | 0.180 | 0.079 | 0.158 | 0.469 |
| | ANT0 | Right Tilt | 0.044 | 0.044 | 0.276 | 0.192 | 0.090 | 0.134 | 0.512 |
| LTE B26 | ANT1 | Left Cheek | 0.147 | 0.147 | 0.351 | 0.163 | 0.378 | 0.525 | 0.661 |
| | ANT1 | Left Tilt | 0.085 | 0.085 | 0.316 | 0.272 | 0.130 | 0.215 | 0.673 |
| | ANT1 | Right Cheek | 0.295 | 0.295 | 0.210 | 0.180 | 0.079 | 0.374 | 0.685 |
| | ANT1 | Right Tilt | 0.156 | 0.156 | 0.276 | 0.192 | 0.090 | 0.246 | 0.624 |
| LTE B26 | ANT0 | Left Cheek | 0.140 | 0.140 | 0.351 | 0.163 | 0.378 | 0.518 | 0.654 |
| | ANT0 | Left Tilt | 0.077 | 0.077 | 0.316 | 0.272 | 0.130 | 0.207 | 0.665 |
| | ANT0 | Right Cheek | 0.104 | 0.104 | 0.210 | 0.180 | 0.079 | 0.183 | 0.494 |
| | ANT0 | Right Tilt | 0.066 | 0.066 | 0.276 | 0.192 | 0.090 | 0.156 | 0.534 |
| LTE B66 | ANT4 | Left Cheek | 0.164 | 0.118 | 0.351 | 0.163 | 0.378 | 0.542 | 0.632 |
| | ANT4 | Left Tilt | 0.198 | 0.148 | 0.316 | 0.272 | 0.130 | 0.328 | 0.736 |
| | ANT4 | Right Cheek | 0.213 | 0.178 | 0.210 | 0.180 | 0.079 | 0.292 | 0.568 |
| | ANT4 | Right Tilt | 0.239 | 0.196 | 0.276 | 0.192 | 0.090 | 0.329 | 0.664 |
| LTE B66 | ANT3 | Left Cheek | 0.165 | 0.165 | 0.351 | 0.163 | 0.378 | 0.543 | 0.679 |
| | ANT3 | Left Tilt | 0.063 | 0.063 | 0.316 | 0.272 | 0.130 | 0.193 | 0.651 |
| | ANT3 | Right Cheek | 0.145 | 0.145 | 0.210 | 0.180 | 0.079 | 0.224 | 0.535 |
| | ANT3 | Right Tilt | 0.078 | 0.078 | 0.276 | 0.192 | 0.090 | 0.168 | 0.546 |
| LTE B38 | ANT4 | Left Cheek | 0.280 | 0.176 | 0.351 | 0.163 | 0.378 | 0.658 | 0.690 |
| | ANT4 | Left Tilt | 0.365 | 0.250 | 0.316 | 0.272 | 0.130 | 0.495 | 0.838 |
| | ANT4 | Right Cheek | 0.414 | 0.277 | 0.210 | 0.180 | 0.079 | 0.493 | 0.667 |
| | ANT4 | Right Tilt | 0.567 | 0.354 | 0.276 | 0.192 | 0.090 | 0.657 | 0.822 |
| LTE B38 | ANT3 | Left Cheek | 0.136 | 0.136 | 0.351 | 0.163 | 0.378 | 0.514 | 0.650 |
| | ANT3 | Left Tilt | 0.054 | 0.054 | 0.316 | 0.272 | 0.130 | 0.184 | 0.642 |
| | ANT3 | Right Cheek | 0.106 | 0.106 | 0.210 | 0.180 | 0.079 | 0.185 | 0.496 |
| | ANT3 | Right Tilt | 0.053 | 0.053 | 0.276 | 0.192 | 0.090 | 0.143 | 0.521 |
| LTE B41 | ANT4 | Left Cheek | 0.488 | 0.363 | 0.351 | 0.163 | 0.378 | 0.866 | 0.877 |
| | ANT4 | Left Tilt | 0.594 | 0.449 | 0.316 | 0.272 | 0.130 | 0.724 | 1.037 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | ANT4 | Right Cheek | 0.617 | 0.460 | 0.210 | 0.180 | 0.079 | 0.696 | 0.850 |
| | ANT4 | Right Tilt | 0.676 | 0.516 | 0.276 | 0.192 | 0.090 | 0.766 | 0.984 |
| LTE B41 | ANT3 | Left Cheek | 0.122 | 0.122 | 0.351 | 0.163 | 0.378 | 0.500 | 0.636 |
| | ANT3 | Left Tilt | 0.055 | 0.055 | 0.316 | 0.272 | 0.130 | 0.185 | 0.643 |
| | ANT3 | Right Cheek | 0.094 | 0.094 | 0.210 | 0.180 | 0.079 | 0.173 | 0.484 |
| | ANT3 | Right Tilt | 0.051 | 0.051 | 0.276 | 0.192 | 0.090 | 0.141 | 0.519 |
| N5 | ANT1 | Left Cheek | 0.193 | 0.193 | 0.351 | 0.163 | 0.378 | 0.571 | 0.707 |
| | ANT1 | Left Tilt | 0.105 | 0.105 | 0.316 | 0.272 | 0.130 | 0.235 | 0.693 |
| | ANT1 | Right Cheek | 0.329 | 0.329 | 0.210 | 0.180 | 0.079 | 0.408 | 0.719 |
| | ANT1 | Right Tilt | 0.210 | 0.210 | 0.276 | 0.192 | 0.090 | 0.300 | 0.678 |
| N5 | ANT0 | Left Cheek | 0.092 | 0.092 | 0.351 | 0.163 | 0.378 | 0.470 | 0.606 |
| | ANT0 | Left Tilt | 0.034 | 0.034 | 0.316 | 0.272 | 0.130 | 0.164 | 0.622 |
| | ANT0 | Right Cheek | 0.067 | 0.067 | 0.210 | 0.180 | 0.079 | 0.146 | 0.457 |
| | ANT0 | Right Tilt | 0.050 | 0.050 | 0.276 | 0.192 | 0.090 | 0.140 | 0.518 |
| N7 | ANT4 | Left Cheek | 0.358 | 0.358 | 0.351 | 0.163 | 0.378 | 0.736 | 0.872 |
| | ANT4 | Left Tilt | 0.424 | 0.424 | 0.316 | 0.272 | 0.130 | 0.554 | 1.012 |
| | ANT4 | Right Cheek | 0.499 | 0.499 | 0.210 | 0.180 | 0.079 | 0.578 | 0.889 |
| | ANT4 | Right Tilt | 0.779 | 0.779 | 0.276 | 0.192 | 0.090 | 0.869 | 1.247 |
| N7 | ANT3 | Left Cheek | 0.058 | 0.058 | 0.351 | 0.163 | 0.378 | 0.436 | 0.572 |
| | ANT3 | Left Tilt | 0.031 | 0.031 | 0.316 | 0.272 | 0.130 | 0.161 | 0.619 |
| | ANT3 | Right Cheek | 0.134 | 0.134 | 0.210 | 0.180 | 0.079 | 0.213 | 0.524 |
| | ANT3 | Right Tilt | 0.064 | 0.064 | 0.276 | 0.192 | 0.090 | 0.154 | 0.532 |
| N38 | ANT4 | Left Cheek | 0.557 | 0.557 | 0.351 | 0.163 | 0.378 | 0.935 | 1.071 |
| | ANT4 | Left Tilt | 0.711 | 0.711 | 0.316 | 0.272 | 0.130 | 0.841 | 1.299 |
| | ANT4 | Right Cheek | 0.731 | 0.731 | 0.210 | 0.180 | 0.079 | 0.810 | 1.121 |
| | ANT4 | Right Tilt | 0.819 | 0.819 | 0.276 | 0.192 | 0.090 | 0.909 | 1.287 |
| N38 | ANT3 | Left Cheek | 0.040 | 0.040 | 0.351 | 0.163 | 0.378 | 0.418 | 0.554 |
| | ANT3 | Left Tilt | 0.047 | 0.047 | 0.316 | 0.272 | 0.130 | 0.177 | 0.635 |
| | ANT3 | Right Cheek | 0.057 | 0.057 | 0.210 | 0.180 | 0.079 | 0.136 | 0.447 |
| | ANT3 | Right Tilt | 0.024 | 0.024 | 0.276 | 0.192 | 0.090 | 0.114 | 0.492 |
| N41 | ANT4 | Left Cheek | 0.239 | 0.239 | 0.351 | 0.163 | 0.378 | 0.617 | 0.753 |
| | ANT4 | Left Tilt | 0.262 | 0.262 | 0.316 | 0.272 | 0.130 | 0.392 | 0.850 |
| | ANT4 | Right Cheek | 0.349 | 0.349 | 0.210 | 0.180 | 0.079 | 0.428 | 0.739 |
| | ANT4 | Right Tilt | 0.499 | 0.499 | 0.276 | 0.192 | 0.090 | 0.589 | 0.967 |
| N41 | ANT3 | Left Cheek | 0.047 | 0.047 | 0.351 | 0.163 | 0.378 | 0.425 | 0.561 |
| | ANT3 | Left Tilt | 0.053 | 0.053 | 0.316 | 0.272 | 0.130 | 0.183 | 0.641 |
| | ANT3 | Right Cheek | 0.084 | 0.084 | 0.210 | 0.180 | 0.079 | 0.163 | 0.474 |
| | ANT3 | Right Tilt | 0.041 | 0.041 | 0.276 | 0.192 | 0.090 | 0.131 | 0.509 |
| N66 | ANT4 | Left Cheek | 0.134 | 0.098 | 0.351 | 0.163 | 0.378 | 0.512 | 0.612 |
| | ANT4 | Left Tilt | 0.178 | 0.146 | 0.316 | 0.272 | 0.130 | 0.308 | 0.734 |
| | ANT4 | Right Cheek | 0.217 | 0.189 | 0.210 | 0.180 | 0.079 | 0.296 | 0.579 |
| | ANT4 | Right Tilt | 0.225 | 0.197 | 0.276 | 0.192 | 0.090 | 0.315 | 0.665 |
| N66 | ANT3 | Left Cheek | 0.098 | 0.098 | 0.351 | 0.163 | 0.378 | 0.476 | 0.612 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | ANT3 | Left Tilt | 0.062 | 0.062 | 0.316 | 0.272 | 0.130 | 0.192 | 0.650 |
| | ANT3 | Right Cheek | 0.147 | 0.147 | 0.210 | 0.180 | 0.079 | 0.226 | 0.537 |
| | ANT3 | Right Tilt | 0.075 | 0.075 | 0.276 | 0.192 | 0.090 | 0.165 | 0.543 |

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 1.475 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

### 13.2.3 Head Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN and Bluetooth

| Band | Antenna | Band | Antenna | Position | Stand alone SAR | | |
|---|---|---|---|---|---|---|---|
| | | | | | 1 | 2 | 3 |
| | | | | | LTE | NR | ENDC |
| LTE B7 | ANT4 | N5 | ANT1 | Left Cheek | 0.365 | 0.159 | 0.524 |
| | | | | Left Tilt | 0.332 | 0.107 | 0.439 |
| | | | | Right Cheek | 0.524 | 0.280 | 0.804 |
| | | | | Right Tilt | 0.617 | 0.175 | 0.792 |
| LTE B7 | ANT3 | N5 | ANT0 | Left Cheek | 0.201 | 0.092 | 0.293 |
| | | | | Left Tilt | 0.106 | 0.034 | 0.140 |
| | | | | Right Cheek | 0.216 | 0.067 | 0.283 |
| | | | | Right Tilt | 0.087 | 0.050 | 0.137 |
| LTE B66 | ANT4 | N5 | ANT1 | Left Cheek | 0.044 | 0.159 | 0.203 |
| | | | | Left Tilt | 0.052 | 0.107 | 0.159 |
| | | | | Right Cheek | 0.089 | 0.280 | 0.369 |
| | | | | Right Tilt | 0.094 | 0.175 | 0.269 |
| LTE B66 | ANT3 | N5 | ANT0 | Left Cheek | 0.165 | 0.092 | 0.257 |
| | | | | Left Tilt | 0.063 | 0.034 | 0.097 |
| | | | | Right Cheek | 0.145 | 0.067 | 0.212 |
| | | | | Right Tilt | 0.078 | 0.050 | 0.128 |
| LTE B66 | ANT4 | N7 | ANT3 | Left Cheek | 0.060 | 0.058 | 0.118 |
| | | | | Left Tilt | 0.071 | 0.031 | 0.102 |
| | | | | Right Cheek | 0.100 | 0.134 | 0.234 |
| | | | | Right Tilt | 0.101 | 0.064 | 0.165 |
| LTE B66 | ANT1 | N7 | ANT1 | Left Cheek | 0.240 | 0.135 | 0.375 |
| | | | | Left Tilt | 0.163 | 0.060 | 0.223 |
| | | | | Right Cheek | 0.732 | 0.302 | **1.034** |
| | | | | Right Tilt | 0.190 | 0.110 | 0.300 |
| LTE B26 | ANT1 | N41 | ANT4 | Left Cheek | 0.147 | 0.239 | 0.386 |
| | | | | Left Tilt | 0.085 | 0.262 | 0.347 |
| | | | | Right Cheek | 0.295 | 0.349 | 0.644 |
| | | | | Right Tilt | 0.156 | 0.499 | 0.655 |
| LTE B26 | ANT0 | N41 | ANT3 | Left Cheek | 0.140 | 0.047 | 0.187 |
| | | | | Left Tilt | 0.077 | 0.053 | 0.130 |
| | | | | Right Cheek | 0.104 | 0.084 | 0.188 |
| | | | | Right Tilt | 0.066 | 0.041 | 0.107 |
| LTE B2 | ANT4 | N66 | ANT3 | Left Cheek | 0.472 | 0.098 | 0.570 |
| | | | | Left Tilt | 0.521 | 0.062 | 0.583 |
| | | | | Right Cheek | 0.739 | 0.147 | 0.886 |
| | | | | Right Tilt | 0.715 | 0.075 | 0.790 |
| LTE B7 | ANT4 | N66 | ANT3 | Left Cheek | 0.365 | 0.098 | 0.463 |
| | | | | Left Tilt | 0.332 | 0.062 | 0.394 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | Right Cheek | 0.524 | 0.147 | 0.671 |
| | | | | Right Tilt | 0.617 | 0.075 | 0.692 |
| LTE B7 | ANT1 | N66 | ANT1 | Left Cheek | 0.082 | 0.299 | 0.381 |
| | | | | Left Tilt | 0.033 | 0.172 | 0.205 |
| | | | | Right Cheek | 0.198 | 0.774 | 0.972 |
| | | | | Right Tilt | 0.071 | 0.200 | 0.271 |
| LTE B5 | ANT0 | N7 | ANT3 | Left Cheek | 0.144 | 0.058 | 0.202 |
| | | | | Left Tilt | 0.078 | 0.031 | 0.109 |
| | | | | Right Cheek | 0.099 | 0.134 | 0.233 |
| | | | | Right Tilt | 0.029 | 0.064 | 0.093 |
| LTE B5 | ANT1 | N7 | ANT4 | Left Cheek | 0.163 | 0.358 | 0.521 |
| | | | | Left Tilt | 0.094 | 0.379 | 0.473 |
| | | | | Right Cheek | 0.342 | 0.499 | 0.841 |
| | | | | Right Tilt | 0.179 | 0.779 | 0.958 |
| LTE B5 | ANT0 | N66 | ANT3 | Left Cheek | 0.144 | 0.098 | 0.242 |
| | | | | Left Tilt | 0.078 | 0.062 | 0.140 |
| | | | | Right Cheek | 0.099 | 0.147 | 0.246 |
| | | | | Right Tilt | 0.029 | 0.075 | 0.104 |
| LTE B5 | ANT1 | N66 | ANT4 | Left Cheek | 0.163 | 0.096 | 0.259 |
| | | | | Left Tilt | 0.094 | 0.143 | 0.237 |
| | | | | Right Cheek | 0.342 | 0.185 | 0.527 |
| | | | | Right Tilt | 0.179 | 0.192 | 0.371 |

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 1.034 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

## 13.2.4 Head Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN and Bluetooth

| Band | Antenna | Band | Antenna | Position | Stand alone SAR | | | | | | | | | | Sum SAR | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | | | | |
| | | | | | LTE | NR | ENDC | 2.4G WIFI (Chain 0) | 2.4G WIFI (Chain 1) | 2.4G WIFI (MIMO) | 5G WIFI (Chain 0 MAX) | 5G WIFI (Chain 1 MAX) | 5G WIFI (MIMO MAX) | Blueto oth | Sum SAR (3+4) | Sum SAR (3+6) | Sum SAR (3+5+10) | Sum SAR (3+7+10) | Sum SAR (3+8+10) | Sum SAR (3+9+10) |
| LTE B7 | ANT4 | N5 | ANT1 | Left Cheek | 0.365 | 0.159 | 0.524 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 1.070 | 1.299 | 0.998 | 1.535 | 1.359 | 1.537 |
| | | | | Left Tilt | 0.332 | 0.107 | 0.439 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.915 | 1.017 | 0.575 | 0.983 | 1.234 | 1.276 |
| | | | | Right Cheek | 0.524 | 0.280 | 0.804 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 1.123 | 1.122 | 1.163 | 1.356 | 1.350 | 1.356 |
| | | | | Right Tilt | 0.617 | 0.175 | 0.792 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 1.189 | 1.220 | 0.888 | 1.067 | 1.373 | 1.366 |
| LTE B7 | ANT3 | N5 | ANT0 | Left Cheek | 0.201 | 0.092 | 0.293 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.839 | 1.068 | 0.767 | 1.304 | 1.128 | 1.306 |
| | | | | Left Tilt | 0.106 | 0.034 | 0.140 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.616 | 0.718 | 0.276 | 0.684 | 0.935 | 0.977 |
| | | | | Right Cheek | 0.216 | 0.067 | 0.283 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.602 | 0.601 | 0.642 | 0.835 | 0.829 | 0.835 |
| | | | | Right Tilt | 0.087 | 0.050 | 0.137 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.534 | 0.565 | 0.233 | 0.412 | 0.718 | 0.711 |
| LTE B66 | ANT4 | N5 | ANT1 | Left Cheek | 0.044 | 0.159 | 0.203 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.749 | 0.978 | 0.677 | 1.214 | 1.038 | 1.216 |
| | | | | Left Tilt | 0.052 | 0.107 | 0.159 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.635 | 0.737 | 0.295 | 0.703 | 0.954 | 0.996 |
| | | | | Right Cheek | 0.089 | 0.280 | 0.369 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.688 | 0.687 | 0.728 | 0.921 | 0.915 | 0.921 |
| | | | | Right Tilt | 0.094 | 0.175 | 0.269 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.666 | 0.697 | 0.365 | 0.544 | 0.850 | 0.843 |
| LTE B66 | ANT3 | N5 | ANT0 | Left Cheek | 0.165 | 0.092 | 0.257 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.803 | 1.032 | 0.731 | 1.268 | 1.092 | 1.270 |
| | | | | Left Tilt | 0.063 | 0.034 | 0.097 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.573 | 0.675 | 0.233 | 0.641 | 0.892 | 0.934 |
| | | | | Right Cheek | 0.145 | 0.067 | 0.212 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.531 | 0.530 | 0.571 | 0.764 | 0.758 | 0.764 |
| | | | | Right Tilt | 0.078 | 0.050 | 0.128 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.525 | 0.556 | 0.224 | 0.403 | 0.709 | 0.702 |
| LTE B66 | ANT4 | N7 | ANT3 | Left Cheek | 0.060 | 0.058 | 0.118 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.664 | 0.893 | 0.592 | 1.129 | 0.953 | 1.131 |
| | | | | Left Tilt | 0.071 | 0.031 | 0.102 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.578 | 0.680 | 0.238 | 0.646 | 0.897 | 0.939 |
| | | | | Right Cheek | 0.100 | 0.134 | 0.234 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.553 | 0.552 | 0.593 | 0.786 | 0.780 | 0.786 |
| | | | | Right Tilt | 0.101 | 0.064 | 0.165 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.562 | 0.593 | 0.261 | 0.440 | 0.746 | 0.739 |
| LTE B66 | ANT1 | N7 | ANT1 | Left Cheek | 0.240 | 0.135 | 0.375 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.921 | 1.150 | 0.849 | 1.386 | 1.210 | 1.388 |
| | | | | Left Tilt | 0.163 | 0.060 | 0.223 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.699 | 0.801 | 0.359 | 0.767 | 1.018 | 1.060 |
| | | | | Right Cheek | 0.732 | 0.302 | 1.034 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 1.353 | 1.352 | 1.393 | **1.586** | 1.580 | **1.586** |
| | | | | Right Tilt | 0.190 | 0.110 | 0.300 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.697 | 0.728 | 0.396 | 0.575 | 0.881 | 0.874 |
| LTE B26 | ANT1 | N41 | ANT4 | Left Cheek | 0.147 | 0.239 | 0.386 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.932 | 1.161 | 0.860 | 1.397 | 1.221 | 1.399 |
| | | | | Left Tilt | 0.085 | 0.262 | 0.347 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.823 | 0.925 | 0.483 | 0.891 | 1.142 | 1.184 |
| | | | | Right Cheek | 0.295 | 0.349 | 0.644 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.963 | 0.962 | 1.003 | 1.196 | 1.190 | 1.196 |
| | | | | Right Tilt | 0.156 | 0.499 | 0.655 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 1.052 | 1.083 | 0.751 | 0.930 | 1.236 | 1.229 |
| LTE B26 | ANT0 | N41 | ANT3 | Left Cheek | 0.140 | 0.047 | 0.187 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.733 | 0.962 | 0.661 | 1.198 | 1.022 | 1.200 |
| | | | | Left Tilt | 0.077 | 0.053 | 0.130 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.606 | 0.708 | 0.266 | 0.674 | 0.925 | 0.967 |
| | | | | Right Cheek | 0.104 | 0.084 | 0.188 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.507 | 0.506 | 0.547 | 0.740 | 0.734 | 0.740 |
| | | | | Right Tilt | 0.066 | 0.041 | 0.107 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.504 | 0.535 | 0.203 | 0.382 | 0.688 | 0.681 |
| LTE B2 | ANT4 | N66 | ANT3 | Left Cheek | 0.472 | 0.098 | 0.570 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 1.116 | 1.345 | 1.044 | 1.581 | 1.405 | 1.583 |
| | | | | Left Tilt | 0.521 | 0.062 | 0.583 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 1.059 | 1.161 | 0.719 | 1.127 | 1.378 | 1.420 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Right Cheek | 0.739 | 0.147 | 0.886 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 1.205 | 1.204 | 1.245 | 1.438 | 1.432 | 1.438 |
| | | | | Right Tilt | 0.715 | 0.075 | 0.790 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 1.187 | 1.218 | 0.886 | 1.065 | 1.371 | 1.364 |
| LTE B7 | ANT4 | N66 | ANT3 | Left Cheek | 0.365 | 0.098 | 0.463 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 1.009 | 1.238 | 0.937 | 1.474 | 1.298 | 1.476 |
| | | | | Left Tilt | 0.332 | 0.062 | 0.394 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.870 | 0.972 | 0.530 | 0.938 | 1.189 | 1.231 |
| | | | | Right Cheek | 0.524 | 0.147 | 0.671 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.990 | 0.989 | 1.030 | 1.223 | 1.217 | 1.223 |
| | | | | Right Tilt | 0.617 | 0.075 | 0.692 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 1.089 | 1.120 | 0.788 | 0.967 | 1.273 | 1.266 |
| LTE B7 | ANT1 | N66 | ANT1 | Left Cheek | 0.082 | 0.299 | 0.381 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.927 | 1.156 | 0.855 | 1.392 | 1.216 | 1.394 |
| | | | | Left Tilt | 0.033 | 0.172 | 0.205 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.681 | 0.783 | 0.341 | 0.749 | 1.000 | 1.042 |
| | | | | Right Cheek | 0.198 | 0.774 | 0.972 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 1.291 | 1.290 | 1.331 | 1.524 | 1.518 | 1.524 |
| | | | | Right Tilt | 0.071 | 0.200 | 0.271 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.668 | 0.699 | 0.367 | 0.546 | 0.852 | 0.845 |
| LTE B5 | ANT0 | N7 | ANT3 | Left Cheek | 0.144 | 0.058 | 0.202 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.748 | 0.977 | 0.676 | 1.213 | 1.037 | 1.215 |
| | | | | Left Tilt | 0.078 | 0.031 | 0.109 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.585 | 0.687 | 0.245 | 0.653 | 0.904 | 0.946 |
| | | | | Right Cheek | 0.099 | 0.134 | 0.233 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.552 | 0.551 | 0.592 | 0.785 | 0.779 | 0.785 |
| | | | | Right Tilt | 0.029 | 0.064 | 0.093 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.490 | 0.521 | 0.189 | 0.368 | 0.674 | 0.667 |
| LTE B5 | ANT1 | N7 | ANT4 | Left Cheek | 0.163 | 0.369 | 0.532 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 1.078 | 1.307 | 1.006 | 1.543 | 1.367 | 1.545 |
| | | | | Left Tilt | 0.094 | 0.424 | 0.518 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.994 | 1.096 | 0.654 | 1.062 | 1.313 | 1.355 |
| | | | | Right Cheek | 0.342 | 0.515 | 0.857 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 1.176 | 1.175 | 1.216 | 1.409 | 1.403 | 1.409 |
| | | | | Right Tilt | 0.179 | 0.613 | 0.792 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 1.189 | 1.220 | 0.888 | 1.067 | 1.373 | 1.366 |
| LTE B5 | ANT0 | N66 | ANT3 | Left Cheek | 0.144 | 0.098 | 0.242 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.788 | 1.017 | 0.716 | 1.253 | 1.077 | 1.255 |
| | | | | Left Tilt | 0.078 | 0.062 | 0.140 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.616 | 0.718 | 0.276 | 0.684 | 0.935 | 0.977 |
| | | | | Right Cheek | 0.099 | 0.147 | 0.246 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.565 | 0.564 | 0.605 | 0.798 | 0.792 | 0.798 |
| | | | | Right Tilt | 0.029 | 0.075 | 0.104 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.501 | 0.532 | 0.200 | 0.379 | 0.685 | 0.678 |
| LTE B5 | ANT1 | N66 | ANT4 | Left Cheek | 0.163 | 0.098 | 0.261 | 0.546 | 0.096 | 0.775 | 0.633 | 0.457 | 0.635 | 0.378 | 0.807 | 1.036 | 0.735 | 1.272 | 1.096 | 1.274 |
| | | | | Left Tilt | 0.094 | 0.146 | 0.240 | 0.476 | 0.006 | 0.578 | 0.414 | 0.665 | 0.707 | 0.130 | 0.716 | 0.818 | 0.376 | 0.784 | 1.035 | 1.077 |
| | | | | Right Cheek | 0.342 | 0.189 | 0.531 | 0.319 | 0.280 | 0.318 | 0.473 | 0.467 | 0.473 | 0.079 | 0.850 | 0.849 | 0.890 | 1.083 | 1.077 | 1.083 |
| | | | | Right Tilt | 0.179 | 0.197 | 0.376 | 0.397 | 0.006 | 0.428 | 0.185 | 0.491 | 0.484 | 0.090 | 0.773 | 0.804 | 0.472 | 0.651 | 0.957 | 0.950 |

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 1.586 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

## 13.2.5 Head Simultaneous Transmission SAR Evaluation for WWAN Antenna with 2.4G WLAN and 5G WLAN

| Band | Antenna | Band | Antenna | Position | Stand alone SAR | | | | | | | | Sum SAR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1 | 2 | 3 | 4 | | | | 5 | |
| | | | | | LTE | NR | ENDC | 2.4G WIFI (Chain0) | 5.3G | 5.6G | 5.8G | 5G WIFI (Chain1 MAX) | Sum SAR (3+4+5) |
| LTE B7 | ANT4 | N5 | ANT1 | Left Cheek | 0.365 | 0.159 | 0.524 | 0.351 | 0.099 | 0.163 | 0.141 | 0.163 | 1.038 |
| | | | | Left Tilt | 0.332 | 0.107 | 0.439 | 0.316 | 0.082 | 0.202 | 0.272 | 0.272 | 1.027 |
| | | | | Right Cheek | 0.524 | 0.280 | 0.804 | 0.210 | 0.105 | 0.156 | 0.180 | 0.180 | 1.194 |
| | | | | Right Tilt | 0.617 | 0.175 | 0.792 | 0.276 | 0.117 | 0.177 | 0.192 | 0.192 | 1.260 |
| LTE B7 | ANT3 | N5 | ANT0 | Left Cheek | 0.201 | 0.092 | 0.293 | 0.351 | 0.099 | 0.163 | 0.141 | 0.163 | 0.807 |
| | | | | Left Tilt | 0.106 | 0.034 | 0.140 | 0.316 | 0.082 | 0.202 | 0.272 | 0.272 | 0.728 |
| | | | | Right Cheek | 0.216 | 0.067 | 0.283 | 0.210 | 0.105 | 0.156 | 0.180 | 0.180 | 0.673 |
| | | | | Right Tilt | 0.087 | 0.050 | 0.137 | 0.276 | 0.117 | 0.177 | 0.192 | 0.192 | 0.605 |
| LTE B66 | ANT4 | N5 | ANT1 | Left Cheek | 0.044 | 0.159 | 0.203 | 0.351 | 0.099 | 0.163 | 0.141 | 0.163 | 0.717 |
| | | | | Left Tilt | 0.052 | 0.107 | 0.159 | 0.316 | 0.082 | 0.202 | 0.272 | 0.272 | 0.747 |
| | | | | Right Cheek | 0.089 | 0.280 | 0.369 | 0.210 | 0.105 | 0.156 | 0.180 | 0.180 | 0.759 |
| | | | | Right Tilt | 0.094 | 0.175 | 0.269 | 0.276 | 0.117 | 0.177 | 0.192 | 0.192 | 0.737 |
| LTE B66 | ANT3 | N5 | ANT0 | Left Cheek | 0.165 | 0.092 | 0.257 | 0.351 | 0.099 | 0.163 | 0.141 | 0.163 | 0.771 |
| | | | | Left Tilt | 0.063 | 0.034 | 0.097 | 0.316 | 0.082 | 0.202 | 0.272 | 0.272 | 0.685 |
| | | | | Right Cheek | 0.145 | 0.067 | 0.212 | 0.210 | 0.105 | 0.156 | 0.180 | 0.180 | 0.602 |
| | | | | Right Tilt | 0.078 | 0.050 | 0.128 | 0.276 | 0.117 | 0.177 | 0.192 | 0.192 | 0.596 |
| LTE B5 | ANT0 | N7 | ANT3 | Left Cheek | 0.144 | 0.058 | 0.202 | 0.351 | 0.099 | 0.163 | 0.141 | 0.163 | 0.716 |
| | | | | Left Tilt | 0.078 | 0.031 | 0.109 | 0.316 | 0.082 | 0.202 | 0.272 | 0.272 | 0.697 |
| | | | | Right Cheek | 0.099 | 0.134 | 0.233 | 0.210 | 0.105 | 0.156 | 0.180 | 0.180 | 0.623 |
| | | | | Right Tilt | 0.029 | 0.064 | 0.093 | 0.276 | 0.117 | 0.177 | 0.192 | 0.192 | 0.561 |
| LTE B5 | ANT1 | N7 | ANT4 | Left Cheek | 0.163 | 0.287 | 0.450 | 0.351 | 0.099 | 0.163 | 0.141 | 0.163 | 0.964 |
| | | | | Left Tilt | 0.094 | 0.340 | 0.434 | 0.316 | 0.082 | 0.202 | 0.272 | 0.272 | 1.022 |
| | | | | Right Cheek | 0.342 | 0.400 | 0.742 | 0.210 | 0.105 | 0.156 | 0.180 | 0.180 | 1.132 |
| | | | | Right Tilt | 0.179 | 0.511 | 0.690 | 0.276 | 0.117 | 0.177 | 0.192 | 0.192 | 1.158 |
| LTE B66 | ANT4 | N7 | ANT3 | Left Cheek | 0.060 | 0.058 | 0.118 | 0.351 | 0.099 | 0.163 | 0.141 | 0.163 | 0.632 |
| | | | | Left Tilt | 0.071 | 0.031 | 0.102 | 0.316 | 0.082 | 0.202 | 0.272 | 0.272 | 0.690 |
| | | | | Right Cheek | 0.100 | 0.134 | 0.234 | 0.210 | 0.105 | 0.156 | 0.180 | 0.180 | 0.624 |
| | | | | Right Tilt | 0.101 | 0.064 | 0.165 | 0.276 | 0.117 | 0.177 | 0.192 | 0.192 | 0.633 |
| LTE B66 | ANT1 | N7 | ANT1 | Left Cheek | 0.240 | 0.135 | 0.375 | 0.351 | 0.099 | 0.163 | 0.141 | 0.163 | 0.889 |
| | | | | Left Tilt | 0.163 | 0.060 | 0.223 | 0.316 | 0.082 | 0.202 | 0.272 | 0.272 | 0.811 |
| | | | | Right Cheek | 0.732 | 0.302 | 1.034 | 0.210 | 0.105 | 0.156 | 0.180 | 0.180 | **1.424** |
| | | | | Right Tilt | 0.190 | 0.110 | 0.300 | 0.276 | 0.117 | 0.177 | 0.192 | 0.192 | 0.768 |
| LTE B26 | ANT3 | N41 | ANT0 | Left Cheek | 0.147 | 0.182 | 0.329 | 0.351 | 0.099 | 0.163 | 0.141 | 0.163 | 0.843 |
| | | | | Left Tilt | 0.085 | 0.211 | 0.296 | 0.316 | 0.082 | 0.202 | 0.272 | 0.272 | 0.884 |
| | | | | Right Cheek | 0.295 | 0.286 | 0.581 | 0.210 | 0.105 | 0.156 | 0.180 | 0.180 | 0.971 |
| | | | | Right Tilt | 0.156 | 0.334 | 0.490 | 0.276 | 0.117 | 0.177 | 0.192 | 0.192 | 0.958 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LTE B26 | ANT4 | N41 | ANT1 | Left Cheek | 0.140 | 0.047 | 0.187 | 0.351 | 0.099 | 0.163 | 0.141 | 0.163 | 0.701 |
| | | | | Left Tilt | 0.077 | 0.053 | 0.130 | 0.316 | 0.082 | 0.202 | 0.272 | 0.272 | 0.718 |
| | | | | Right Cheek | 0.104 | 0.084 | 0.188 | 0.210 | 0.105 | 0.156 | 0.180 | 0.180 | 0.578 |
| | | | | Right Tilt | 0.066 | 0.041 | 0.107 | 0.276 | 0.117 | 0.177 | 0.192 | 0.192 | 0.575 |
| LTE B2 | ANT4 | N66 | ANT3 | Left Cheek | 0.472 | 0.098 | 0.570 | 0.351 | 0.099 | 0.163 | 0.141 | 0.163 | 1.084 |
| | | | | Left Tilt | 0.521 | 0.062 | 0.583 | 0.316 | 0.082 | 0.202 | 0.272 | 0.272 | 1.171 |
| | | | | Right Cheek | 0.739 | 0.147 | 0.886 | 0.210 | 0.105 | 0.156 | 0.180 | 0.180 | 1.276 |
| | | | | Right Tilt | 0.715 | 0.075 | 0.790 | 0.276 | 0.117 | 0.177 | 0.192 | 0.192 | 1.258 |
| LTE B7 | ANT4 | N66 | ANT3 | Left Cheek | 0.358 | 0.098 | 0.456 | 0.351 | 0.099 | 0.163 | 0.141 | 0.163 | 0.970 |
| | | | | Left Tilt | 0.326 | 0.062 | 0.388 | 0.316 | 0.082 | 0.202 | 0.272 | 0.272 | 0.976 |
| | | | | Right Cheek | 0.514 | 0.147 | 0.661 | 0.210 | 0.105 | 0.156 | 0.180 | 0.180 | 1.051 |
| | | | | Right Tilt | 0.606 | 0.075 | 0.681 | 0.276 | 0.117 | 0.177 | 0.192 | 0.192 | 1.149 |
| LTE B7 | ANT1 | N66 | ANT1 | Left Cheek | 0.082 | 0.299 | 0.381 | 0.351 | 0.099 | 0.163 | 0.141 | 0.163 | 0.895 |
| | | | | Left Tilt | 0.033 | 0.172 | 0.205 | 0.316 | 0.082 | 0.202 | 0.272 | 0.272 | 0.793 |
| | | | | Right Cheek | 0.198 | 0.774 | 0.972 | 0.210 | 0.105 | 0.156 | 0.180 | 0.180 | 1.362 |
| | | | | Right Tilt | 0.071 | 0.200 | 0.271 | 0.276 | 0.117 | 0.177 | 0.192 | 0.192 | 0.739 |
| LTE B5 | ANT0 | N66 | ANT3 | Left Cheek | 0.144 | 0.098 | 0.242 | 0.351 | 0.099 | 0.163 | 0.141 | 0.163 | 0.756 |
| | | | | Left Tilt | 0.078 | 0.062 | 0.140 | 0.316 | 0.082 | 0.202 | 0.272 | 0.272 | 0.728 |
| | | | | Right Cheek | 0.099 | 0.147 | 0.246 | 0.210 | 0.105 | 0.156 | 0.180 | 0.180 | 0.636 |
| | | | | Right Tilt | 0.029 | 0.075 | 0.104 | 0.276 | 0.117 | 0.177 | 0.192 | 0.192 | 0.572 |
| LTE B5 | ANT1 | N66 | ANT4 | Left Cheek | 0.163 | 0.060 | 0.223 | 0.351 | 0.099 | 0.163 | 0.141 | 0.163 | 0.737 |
| | | | | Left Tilt | 0.094 | 0.085 | 0.179 | 0.316 | 0.082 | 0.202 | 0.272 | 0.272 | 0.767 |
| | | | | Right Cheek | 0.342 | 0.111 | 0.453 | 0.210 | 0.105 | 0.156 | 0.180 | 0.180 | 0.843 |
| | | | | Right Tilt | 0.179 | 0.118 | 0.297 | 0.276 | 0.117 | 0.177 | 0.192 | 0.192 | 0.765 |

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 1.424 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

## 13.2.6 Head Simultaneous Transmission SAR Evaluation for WLAN and Bluetooth

| Position | Stand alone SAR | | | | | | | Sum SAR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | | | |
| | 2.4G WIFI (Chain0) | 2.4G WIFI (Chain1) | 2.4G WIFI (MIMO) | 5G WIFI (Chain0 MAX) | 5G WIFI (Chain1 MAX) | 5G WIFI (MIMO MAX) | Bluetooth | Sum SAR (1+7) | Sum SAR (4+7) | Sum SAR (5+7) | Sum SAR (6+7) | Sum SAR (1+5) |
| | Level2 | Level2 | Level2 | Level2 | Level2 | Level2 | | | | | | |
| Left Cheek | 0.738 | 0.120 | 1.075 | 0.633 | 0.653 | 0.829 | 0.378 | 1.116 | 1.011 | 1.031 | 1.207 | 1.391 |
| Left Tilt | 0.620 | 0.012 | 0.791 | 0.414 | 0.956 | 0.707 | 0.130 | 0.750 | 0.544 | 1.086 | 0.837 | **1.576** |
| Right Cheek | 0.411 | 0.365 | 0.463 | 0.473 | 0.581 | 0.506 | 0.079 | 0.490 | 0.552 | 0.660 | 0.585 | 0.992 |
| Right Tilt | 0.478 | 0.013 | 0.558 | 0.185 | 0.626 | 0.556 | 0.090 | 0.568 | 0.275 | 0.716 | 0.646 | 1.104 |

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 1.576 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

## 13.2.7 Body Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN and Bluetooth

| Band | Antenna | Position | Stand alone SAR | | | | | | | | SUM SAR | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | |
| | | | WWAN | 2.4G WIFI (Chain0) | 2.4G WIFI (Chain1) | 2.4G WIFI (MIMO) | 5G WIFI (Chain0 MAX) | 5G WIFI (Chain1 MAX) | 5G WIFI (MIMO MAX) | Bluetooth | Sum SAR (1+2) | Sum SAR (1+4) | Sum SAR (1+3+8) | Sum SAR (1+5+8) | Sum SAR (1+6+8) | Sum SAR (1+7+8) |
| | | | STATE3 | LEVEL7 | LEVEL7 | LEVEL7 | LEVEL7 | LEVEL7 | LEVEL7 | | | | | | | |
| GSM850 | ANT1 | Front Side 15mm | 0.047 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.089 | 0.103 | 0.116 | 0.116 | 0.123 | 0.138 |
| | | Back Side 15mm | 0.068 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.122 | 0.139 | 0.157 | 0.167 | 0.192 | 0.219 |
| GSM850 | ANT0 | Front Side 15mm | 0.162 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.204 | 0.218 | 0.231 | 0.231 | 0.238 | 0.253 |
| | | Back Side 15mm | 0.129 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.183 | 0.200 | 0.218 | 0.228 | 0.253 | 0.280 |
| GSM1900 | ANT4 | Front Side 15mm | 0.105 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.147 | 0.161 | 0.174 | 0.174 | 0.181 | 0.196 |
| | | Back Side 15mm | 0.123 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.177 | 0.194 | 0.212 | 0.222 | 0.247 | 0.274 |
| GSM1900 | ANT3 | Front Side 15mm | 0.157 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.199 | 0.213 | 0.226 | 0.226 | 0.233 | 0.248 |
| | | Back Side 15mm | 0.182 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.236 | 0.253 | 0.271 | 0.281 | 0.306 | 0.333 |
| WCDMA B2 | ANT4 | Front Side 15mm | 0.349 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.391 | 0.405 | 0.418 | 0.418 | 0.425 | 0.440 |
| | | Back Side 15mm | 0.328 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.382 | 0.399 | 0.417 | 0.427 | 0.452 | **0.479** |
| WCDMA B2 | ANT3 | Front Side 15mm | 0.162 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.204 | 0.218 | 0.231 | 0.231 | 0.238 | 0.253 |
| | | Back Side 15mm | 0.238 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.292 | 0.309 | 0.327 | 0.337 | 0.362 | 0.389 |
| WCDMA B4 | ANT4 | Front Side 15mm | 0.086 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.128 | 0.142 | 0.155 | 0.155 | 0.162 | 0.177 |
| | | Back Side 15mm | 0.092 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.146 | 0.163 | 0.181 | 0.191 | 0.216 | 0.243 |
| WCDMA B4 | ANT3 | Front Side 15mm | 0.148 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.190 | 0.204 | 0.217 | 0.217 | 0.224 | 0.239 |
| | | Back Side 15mm | 0.195 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.249 | 0.266 | 0.284 | 0.294 | 0.319 | 0.346 |
| WCDMA B5 | ANT1 | Front Side 15mm | 0.062 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.104 | 0.118 | 0.131 | 0.131 | 0.138 | 0.153 |
| | | Back Side 15mm | 0.088 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.142 | 0.159 | 0.177 | 0.187 | 0.212 | 0.239 |
| WCDMA B5 | ANT0 | Front Side 15mm | 0.098 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.140 | 0.154 | 0.167 | 0.167 | 0.174 | 0.189 |
| | | Back Side 15mm | 0.137 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.191 | 0.208 | 0.226 | 0.236 | 0.261 | 0.288 |
| LTE B2 | ANT4 | Front Side 15mm | 0.288 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.330 | 0.344 | 0.357 | 0.357 | 0.364 | 0.379 |
| | | Back Side 15mm | 0.324 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.378 | 0.395 | 0.413 | 0.423 | 0.448 | 0.475 |
| LTE B2 | ANT3 | Front Side 15mm | 0.152 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.194 | 0.208 | 0.221 | 0.221 | 0.228 | 0.243 |
| | | Back Side 15mm | 0.190 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.244 | 0.261 | 0.279 | 0.289 | 0.314 | 0.341 |
| LTE B4 | ANT4 | Front Side 15mm | 0.048 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.090 | 0.104 | 0.117 | 0.117 | 0.124 | 0.139 |
| | | Back Side 15mm | 0.058 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.112 | 0.129 | 0.147 | 0.157 | 0.182 | 0.209 |
| LTE B4 | ANT3 | Front Side 15mm | 0.179 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.221 | 0.235 | 0.248 | 0.248 | 0.255 | 0.270 |
| | | Back Side 15mm | 0.219 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.273 | 0.290 | 0.308 | 0.318 | 0.343 | 0.370 |
| LTE B5 | ANT1 | Front Side 15mm | 0.047 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.089 | 0.103 | 0.116 | 0.116 | 0.123 | 0.138 |
| | | Back Side 15mm | 0.067 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.121 | 0.138 | 0.156 | 0.166 | 0.191 | 0.218 |
| LTE B5 | ANT0 | Front Side 15mm | 0.102 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.144 | 0.158 | 0.171 | 0.171 | 0.178 | 0.193 |
| | | Back Side 15mm | 0.125 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.179 | 0.196 | 0.214 | 0.224 | 0.249 | 0.276 |
| LTE B7 | ANT4 | Front Side 15mm | 0.169 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.211 | 0.225 | 0.238 | 0.238 | 0.245 | 0.260 |
| | | Back Side 15mm | 0.211 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.265 | 0.282 | 0.300 | 0.310 | 0.335 | 0.362 |
| LTE B7 | ANT3 | Front Side 15mm | 0.154 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.196 | 0.210 | 0.223 | 0.223 | 0.230 | 0.245 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Back Side 15mm | 0.204 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.258 | 0.275 | 0.293 | 0.303 | 0.328 | 0.355 |
| LTE B12 | ANT1 | Front Side 15mm | 0.032 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.074 | 0.088 | 0.101 | 0.101 | 0.108 | 0.123 |
| | | Back Side 15mm | 0.041 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.095 | 0.112 | 0.130 | 0.140 | 0.165 | 0.192 |
| LTE B12 | ANT0 | Front Side 15mm | 0.107 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.149 | 0.163 | 0.176 | 0.176 | 0.183 | 0.198 |
| | | Back Side 15mm | 0.164 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.218 | 0.235 | 0.253 | 0.263 | 0.288 | 0.315 |
| LTE B13 | ANT1 | Front Side 15mm | 0.043 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.085 | 0.099 | 0.112 | 0.112 | 0.119 | 0.134 |
| | | Back Side 15mm | 0.052 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.106 | 0.123 | 0.141 | 0.151 | 0.176 | 0.203 |
| LTE B13 | ANT0 | Front Side 15mm | 0.054 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.096 | 0.110 | 0.123 | 0.123 | 0.130 | 0.145 |
| | | Back Side 15mm | 0.070 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.124 | 0.141 | 0.159 | 0.169 | 0.194 | 0.221 |
| LTE B17 | ANT1 | Front Side 15mm | 0.033 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.075 | 0.089 | 0.102 | 0.102 | 0.109 | 0.124 |
| | | Back Side 15mm | 0.048 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.102 | 0.119 | 0.137 | 0.147 | 0.172 | 0.199 |
| LTE B17 | ANT0 | Front Side 15mm | 0.087 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.129 | 0.143 | 0.156 | 0.156 | 0.163 | 0.178 |
| | | Back Side 15mm | 0.156 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.210 | 0.227 | 0.245 | 0.255 | 0.280 | 0.307 |
| LTE B26 | ANT1 | Front Side 15mm | 0.041 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.083 | 0.097 | 0.110 | 0.110 | 0.117 | 0.132 |
| | | Back Side 15mm | 0.057 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.111 | 0.128 | 0.146 | 0.156 | 0.181 | 0.208 |
| LTE B26 | ANT0 | Front Side 15mm | 0.106 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.148 | 0.162 | 0.175 | 0.175 | 0.182 | 0.197 |
| | | Back Side 15mm | 0.145 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.199 | 0.216 | 0.234 | 0.244 | 0.269 | 0.296 |
| LTE B66 | ANT4 | Front Side 15mm | 0.062 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.104 | 0.118 | 0.131 | 0.131 | 0.138 | 0.153 |
| | | Back Side 15mm | 0.055 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.109 | 0.126 | 0.144 | 0.154 | 0.179 | 0.206 |
| LTE B66 | ANT3 | Front Side 15mm | 0.235 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.277 | 0.291 | 0.304 | 0.304 | 0.311 | 0.326 |
| | | Back Side 15mm | 0.319 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.373 | 0.390 | 0.408 | 0.418 | 0.443 | 0.470 |
| LTE B38 | ANT4 | Front Side 15mm | 0.146 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.188 | 0.202 | 0.215 | 0.215 | 0.222 | 0.237 |
| | | Back Side 15mm | 0.162 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.216 | 0.233 | 0.251 | 0.261 | 0.286 | 0.313 |
| LTE B38 | ANT3 | Front Side 15mm | 0.205 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.247 | 0.261 | 0.274 | 0.274 | 0.281 | 0.296 |
| | | Back Side 15mm | 0.249 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.303 | 0.320 | 0.338 | 0.348 | 0.373 | 0.400 |
| LTE B41 | ANT4 | Front Side 15mm | 0.078 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.120 | 0.134 | 0.147 | 0.147 | 0.154 | 0.169 |
| | | Back Side 15mm | 0.088 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.142 | 0.159 | 0.177 | 0.187 | 0.212 | 0.239 |
| LTE B41 | ANT3 | Front Side 15mm | 0.140 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.182 | 0.196 | 0.209 | 0.209 | 0.216 | 0.231 |
| | | Back Side 15mm | 0.167 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.221 | 0.238 | 0.256 | 0.266 | 0.291 | 0.318 |
| N5 | ANT1 | Front Side 15mm | 0.042 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.084 | 0.098 | 0.111 | 0.111 | 0.118 | 0.133 |
| | | Back Side 15mm | 0.075 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.129 | 0.146 | 0.164 | 0.174 | 0.199 | 0.226 |
| N5 | ANT0 | Front Side 15mm | 0.075 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.117 | 0.131 | 0.144 | 0.144 | 0.151 | 0.166 |
| | | Back Side 15mm | 0.102 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.156 | 0.173 | 0.191 | 0.201 | 0.226 | 0.253 |
| N7 | ANT4 | Front Side 15mm | 0.139 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.181 | 0.195 | 0.208 | 0.208 | 0.215 | 0.230 |
| | | Back Side 15mm | 0.175 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.229 | 0.246 | 0.264 | 0.274 | 0.299 | 0.326 |
| N7 | ANT3 | Front Side 15mm | 0.035 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.077 | 0.091 | 0.104 | 0.104 | 0.111 | 0.126 |
| | | Back Side 15mm | 0.052 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.106 | 0.123 | 0.141 | 0.151 | 0.176 | 0.203 |
| N38 | ANT4 | Front Side 15mm | 0.123 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.165 | 0.179 | 0.192 | 0.192 | 0.199 | 0.214 |
| | | Back Side 15mm | 0.164 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.218 | 0.235 | 0.253 | 0.263 | 0.288 | 0.315 |
| N38 | ANT3 | Front Side 15mm | 0.038 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.080 | 0.094 | 0.107 | 0.107 | 0.114 | 0.129 |
| | | Back Side 15mm | 0.056 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.110 | 0.127 | 0.145 | 0.155 | 0.180 | 0.207 |
| N41 | ANT4 | Front Side 15mm | 0.110 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.152 | 0.166 | 0.179 | 0.179 | 0.186 | 0.201 |
| | | Back Side 15mm | 0.154 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.208 | 0.225 | 0.243 | 0.253 | 0.278 | 0.305 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N41 | ANT3 | Front Side 15mm | 0.055 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.097 | 0.111 | 0.124 | 0.124 | 0.131 | 0.146 |
| | | Back Side 15mm | 0.075 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.129 | 0.146 | 0.164 | 0.174 | 0.199 | 0.226 |
| N66 | ANT4 | Front Side 15mm | 0.057 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.099 | 0.113 | 0.126 | 0.126 | 0.133 | 0.148 |
| | | Back Side 15mm | 0.066 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.120 | 0.137 | 0.155 | 0.165 | 0.190 | 0.217 |
| N66 | ANT3 | Front Side 15mm | 0.178 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.220 | 0.234 | 0.247 | 0.247 | 0.254 | 0.269 |
| | | Back Side 15mm | 0.200 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.254 | 0.271 | 0.289 | 0.299 | 0.324 | 0.351 |

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 0.479 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

## 13.2.8 Body Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN and Bluetooth

| Band | Antenna | Position | Stand alone SAR | | | | | SUM SAR | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 | 5 | | |
| | | | WWAN | WWAN | 2.4G WIFI (Chain0) | 5G WIFI (Chain1 MAX) | Bluetooth | Sum SAR (1+5) | Sum SAR (2+3+4) |
| | | | STATE1 | STATE5 | LEVEL8 | LEVEL8 | | | |
| GSM850 | ANT1 | Front Side 15mm | 0.047 | 0.047 | 0.028 | 0.025 | 0.029 | 0.076 | 0.100 |
| | | Back Side 15mm | 0.068 | 0.068 | 0.027 | 0.046 | 0.041 | 0.109 | 0.141 |
| GSM850 | ANT0 | Front Side 15mm | 0.162 | 0.162 | 0.028 | 0.025 | 0.029 | 0.191 | 0.215 |
| | | Back Side 15mm | 0.129 | 0.129 | 0.027 | 0.046 | 0.041 | 0.170 | 0.202 |
| GSM1900 | ANT4 | Front Side 15mm | 0.150 | 0.105 | 0.028 | 0.025 | 0.029 | 0.179 | 0.158 |
| | | Back Side 15mm | 0.227 | 0.123 | 0.027 | 0.046 | 0.041 | 0.268 | 0.196 |
| GSM1900 | ANT3 | Front Side 15mm | 0.157 | 0.112 | 0.028 | 0.025 | 0.029 | 0.186 | 0.165 |
| | | Back Side 15mm | 0.182 | 0.129 | 0.027 | 0.046 | 0.041 | 0.223 | 0.202 |
| WCDMA B2 | ANT4 | Front Side 15mm | 0.349 | 0.349 | 0.028 | 0.025 | 0.029 | 0.378 | **0.402** |
| | | Back Side 15mm | 0.328 | 0.328 | 0.027 | 0.046 | 0.041 | 0.369 | 0.401 |
| WCDMA B2 | ANT3 | Front Side 15mm | 0.162 | 0.115 | 0.028 | 0.025 | 0.029 | 0.191 | 0.168 |
| | | Back Side 15mm | 0.238 | 0.169 | 0.027 | 0.046 | 0.041 | 0.279 | 0.242 |
| WCDMA B4 | ANT4 | Front Side 15mm | 0.120 | 0.086 | 0.028 | 0.025 | 0.029 | 0.149 | 0.139 |
| | | Back Side 15mm | 0.132 | 0.092 | 0.027 | 0.046 | 0.041 | 0.173 | 0.165 |
| WCDMA B4 | ANT3 | Front Side 15mm | 0.148 | 0.095 | 0.028 | 0.025 | 0.029 | 0.177 | 0.148 |
| | | Back Side 15mm | 0.195 | 0.133 | 0.027 | 0.046 | 0.041 | 0.236 | 0.206 |
| WCDMA B5 | ANT1 | Front Side 15mm | 0.062 | 0.062 | 0.028 | 0.025 | 0.029 | 0.091 | 0.115 |
| | | Back Side 15mm | 0.088 | 0.088 | 0.027 | 0.046 | 0.041 | 0.129 | 0.161 |
| WCDMA B5 | ANT0 | Front Side 15mm | 0.098 | 0.098 | 0.028 | 0.025 | 0.029 | 0.127 | 0.151 |
| | | Back Side 15mm | 0.137 | 0.137 | 0.027 | 0.046 | 0.041 | 0.178 | 0.210 |
| LTE B2 | ANT4 | Front Side 15mm | 0.288 | 0.288 | 0.028 | 0.025 | 0.029 | 0.317 | 0.341 |
| | | Back Side 15mm | 0.324 | 0.324 | 0.027 | 0.046 | 0.041 | 0.365 | 0.397 |
| LTE B2 | ANT3 | Front Side 15mm | 0.152 | 0.152 | 0.028 | 0.025 | 0.029 | 0.181 | 0.205 |
| | | Back Side 15mm | 0.190 | 0.190 | 0.027 | 0.046 | 0.041 | 0.231 | 0.263 |
| LTE B4 | ANT4 | Front Side 15mm | 0.080 | 0.048 | 0.028 | 0.025 | 0.029 | 0.109 | 0.101 |
| | | Back Side 15mm | 0.085 | 0.058 | 0.027 | 0.046 | 0.041 | 0.126 | 0.131 |
| LTE B4 | ANT3 | Front Side 15mm | 0.179 | 0.137 | 0.028 | 0.025 | 0.029 | 0.208 | 0.190 |
| | | Back Side 15mm | 0.219 | 0.201 | 0.027 | 0.046 | 0.041 | 0.260 | 0.274 |
| LTE B5 | ANT1 | Front Side 15mm | 0.047 | 0.047 | 0.028 | 0.025 | 0.029 | 0.076 | 0.100 |
| | | Back Side 15mm | 0.067 | 0.067 | 0.027 | 0.046 | 0.041 | 0.108 | 0.140 |
| LTE B5 | ANT0 | Front Side 15mm | 0.102 | 0.102 | 0.028 | 0.025 | 0.029 | 0.131 | 0.155 |
| | | Back Side 15mm | 0.125 | 0.125 | 0.027 | 0.046 | 0.041 | 0.166 | 0.198 |
| LTE B7 | ANT4 | Front Side 15mm | 0.169 | 0.169 | 0.028 | 0.025 | 0.029 | 0.198 | 0.222 |
| | | Back Side 15mm | 0.211 | 0.211 | 0.027 | 0.046 | 0.041 | 0.252 | 0.284 |
| LTE B7 | ANT3 | Front Side 15mm | 0.154 | 0.154 | 0.028 | 0.025 | 0.029 | 0.183 | 0.207 |
| | | Back Side 15mm | 0.204 | 0.204 | 0.027 | 0.046 | 0.041 | 0.245 | 0.277 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| LTE B12 | ANT1 | Front Side 15mm | 0.032 | 0.032 | 0.028 | 0.025 | 0.029 | 0.061 | 0.085 |
| | | Back Side 15mm | 0.041 | 0.041 | 0.027 | 0.046 | 0.041 | 0.082 | 0.114 |
| LTE B12 | ANT0 | Front Side 15mm | 0.107 | 0.107 | 0.028 | 0.025 | 0.029 | 0.136 | 0.160 |
| | | Back Side 15mm | 0.164 | 0.164 | 0.027 | 0.046 | 0.041 | 0.205 | 0.237 |
| LTE B13 | ANT1 | Front Side 15mm | 0.043 | 0.047 | 0.028 | 0.025 | 0.029 | 0.072 | 0.100 |
| | | Back Side 15mm | 0.052 | 0.057 | 0.027 | 0.046 | 0.041 | 0.093 | 0.130 |
| LTE B13 | ANT0 | Front Side 15mm | 0.054 | 0.054 | 0.028 | 0.025 | 0.029 | 0.083 | 0.107 |
| | | Back Side 15mm | 0.070 | 0.070 | 0.027 | 0.046 | 0.041 | 0.111 | 0.143 |
| LTE B17 | ANT1 | Front Side 15mm | 0.033 | 0.033 | 0.028 | 0.025 | 0.029 | 0.062 | 0.086 |
| | | Back Side 15mm | 0.048 | 0.048 | 0.027 | 0.046 | 0.041 | 0.089 | 0.121 |
| LTE B17 | ANT0 | Front Side 15mm | 0.087 | 0.087 | 0.028 | 0.025 | 0.029 | 0.116 | 0.140 |
| | | Back Side 15mm | 0.156 | 0.156 | 0.027 | 0.046 | 0.041 | 0.197 | 0.229 |
| LTE B26 | ANT1 | Front Side 15mm | 0.041 | 0.041 | 0.028 | 0.025 | 0.029 | 0.070 | 0.094 |
| | | Back Side 15mm | 0.057 | 0.057 | 0.027 | 0.046 | 0.041 | 0.098 | 0.130 |
| LTE B26 | ANT0 | Front Side 15mm | 0.106 | 0.106 | 0.028 | 0.025 | 0.029 | 0.135 | 0.159 |
| | | Back Side 15mm | 0.145 | 0.145 | 0.027 | 0.046 | 0.041 | 0.186 | 0.218 |
| LTE B66 | ANT4 | Front Side 15mm | 0.124 | 0.062 | 0.028 | 0.025 | 0.029 | 0.153 | 0.115 |
| | | Back Side 15mm | 0.079 | 0.055 | 0.027 | 0.046 | 0.041 | 0.120 | 0.128 |
| LTE B66 | ANT3 | Front Side 15mm | 0.235 | 0.194 | 0.028 | 0.025 | 0.029 | 0.264 | 0.247 |
| | | Back Side 15mm | 0.319 | 0.221 | 0.027 | 0.046 | 0.041 | 0.360 | 0.294 |
| LTE B38 | ANT4 | Front Side 15mm | 0.146 | 0.146 | 0.028 | 0.025 | 0.029 | 0.175 | 0.199 |
| | | Back Side 15mm | 0.162 | 0.162 | 0.027 | 0.046 | 0.041 | 0.203 | 0.235 |
| LTE B38 | ANT3 | Front Side 15mm | 0.205 | 0.205 | 0.028 | 0.025 | 0.029 | 0.234 | 0.258 |
| | | Back Side 15mm | 0.249 | 0.249 | 0.027 | 0.046 | 0.041 | 0.290 | 0.322 |
| LTE B41 | ANT4 | Front Side 15mm | 0.102 | 0.078 | 0.028 | 0.025 | 0.029 | 0.131 | 0.131 |
| | | Back Side 15mm | 0.119 | 0.088 | 0.027 | 0.046 | 0.041 | 0.160 | 0.161 |
| LTE B41 | ANT3 | Front Side 15mm | 0.140 | 0.096 | 0.028 | 0.025 | 0.029 | 0.169 | 0.149 |
| | | Back Side 15mm | 0.167 | 0.123 | 0.027 | 0.046 | 0.041 | 0.208 | 0.196 |
| N5 | ANT1 | Front Side 15mm | 0.042 | 0.042 | 0.028 | 0.025 | 0.029 | 0.071 | 0.095 |
| | | Back Side 15mm | 0.075 | 0.075 | 0.027 | 0.046 | 0.041 | 0.116 | 0.148 |
| N5 | ANT0 | Front Side 15mm | 0.075 | 0.075 | 0.028 | 0.025 | 0.029 | 0.104 | 0.128 |
| | | Back Side 15mm | 0.102 | 0.102 | 0.027 | 0.046 | 0.041 | 0.143 | 0.175 |
| N7 | ANT4 | Front Side 15mm | 0.200 | 0.139 | 0.028 | 0.025 | 0.029 | 0.229 | 0.192 |
| | | Back Side 15mm | 0.259 | 0.175 | 0.027 | 0.046 | 0.041 | 0.300 | 0.248 |
| N7 | ANT3 | Front Side 15mm | 0.031 | 0.018 | 0.028 | 0.025 | 0.029 | 0.060 | 0.071 |
| | | Back Side 15mm | 0.052 | 0.032 | 0.027 | 0.046 | 0.041 | 0.093 | 0.105 |
| N38 | ANT4 | Front Side 15mm | 0.174 | 0.123 | 0.028 | 0.025 | 0.029 | 0.203 | 0.176 |
| | | Back Side 15mm | 0.212 | 0.164 | 0.027 | 0.046 | 0.041 | 0.253 | 0.237 |
| N38 | ANT3 | Front Side 15mm | 0.038 | 0.030 | 0.028 | 0.025 | 0.029 | 0.067 | 0.083 |
| | | Back Side 15mm | 0.056 | 0.035 | 0.027 | 0.046 | 0.041 | 0.097 | 0.108 |
| N41 | ANT4 | Front Side 15mm | 0.151 | 0.110 | 0.028 | 0.025 | 0.029 | 0.180 | 0.163 |
| | | Back Side 15mm | 0.200 | 0.154 | 0.027 | 0.046 | 0.041 | 0.241 | 0.227 |
| N41 | ANT3 | Front Side 15mm | 0.029 | 0.024 | 0.028 | 0.025 | 0.029 | 0.058 | 0.077 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Back Side 15mm | 0.063 | 0.048 | 0.027 | 0.046 | 0.041 | 0.104 | 0.121 |
| N66 | ANT4 | Front Side 15mm | 0.084 | 0.057 | 0.028 | 0.025 | 0.029 | 0.113 | 0.110 |
| | | Back Side 15mm | 0.092 | 0.066 | 0.027 | 0.046 | 0.041 | 0.133 | 0.139 |
| N66 | ANT3 | Front Side 15mm | 0.178 | 0.178 | 0.028 | 0.025 | 0.029 | 0.207 | 0.231 |
| | | Back Side 15mm | 0.200 | 0.200 | 0.027 | 0.046 | 0.041 | 0.241 | 0.273 |

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 0.402 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

## 13.2.9 Body Simultaneous Transmission SAR Evaluation for ENDC WWAN Antenna

| Band | Antenna | Band | Antenna | Position | Stand alone SAR | | |
|---|---|---|---|---|---|---|---|
| | | | | | 1 | 2 | 3 |
| | | | | | LTE | NR | ENDC |
| | | | | | STATE1 | STATE1 | STATE1 |
| LTE B7 | ANT4 | N5 | ANT1 | Front Side 10mm | 0.128 | 0.042 | 0.170 |
| | | | | Back Side 10mm | 0.154 | 0.075 | 0.229 |
| LTE B7 | ANT3 | N5 | ANT0 | Front Side 10mm | 0.047 | 0.068 | 0.115 |
| | | | | Back Side 10mm | 0.086 | 0.102 | 0.188 |
| LTE B66 | ANT4 | N5 | ANT1 | Front Side 10mm | 0.015 | 0.042 | 0.057 |
| | | | | Back Side 10mm | 0.018 | 0.075 | 0.093 |
| LTE B66 | ANT3 | N5 | ANT0 | Front Side 10mm | 0.067 | 0.068 | 0.135 |
| | | | | Back Side 10mm | 0.084 | 0.102 | 0.186 |
| LTE B5 | ANT0 | N7 | ANT3 | Front Side 10mm | 0.046 | 0.018 | 0.064 |
| | | | | Back Side 10mm | 0.048 | 0.032 | 0.080 |
| LTE B5 | ANT1 | N7 | ANT4 | Front Side 10mm | 0.047 | 0.139 | 0.186 |
| | | | | Back Side 10mm | 0.067 | 0.175 | 0.242 |
| LTE B66 | ANT4 | N7 | ANT3 | Front Side 10mm | 0.018 | 0.018 | 0.036 |
| | | | | Back Side 10mm | 0.020 | 0.032 | 0.052 |
| LTE B66 | ANT1 | N7 | ANT1 | Front Side 10mm | 0.029 | 0.031 | 0.060 |
| | | | | Back Side 10mm | 0.041 | 0.060 | 0.101 |
| LTE B26 | ANT0 | N41 | ANT3 | Front Side 10mm | 0.029 | 0.024 | 0.053 |
| | | | | Back Side 10mm | 0.036 | 0.048 | 0.084 |
| LTE B26 | ANT1 | N41 | ANT4 | Front Side 10mm | 0.041 | 0.105 | 0.146 |
| | | | | Back Side 10mm | 0.057 | 0.154 | 0.211 |
| LTE B2 | ANT4 | N66 | ANT3 | Front Side 10mm | 0.103 | 0.178 | 0.281 |
| | | | | Back Side 10mm | 0.111 | 0.200 | 0.311 |
| LTE B7 | ANT4 | N66 | ANT3 | Front Side 10mm | 0.094 | 0.178 | 0.272 |
| | | | | Back Side 10mm | 0.116 | 0.200 | **0.316** |
| LTE B7 | ANT1 | N66 | ANT1 | Front Side 10mm | 0.034 | 0.056 | 0.090 |
| | | | | Back Side 10mm | 0.058 | 0.065 | 0.123 |
| LTE B5 | ANT0 | N66 | ANT3 | Front Side 10mm | 0.046 | 0.178 | 0.224 |
| | | | | Back Side 10mm | 0.048 | 0.200 | 0.248 |
| LTE B5 | ANT1 | N66 | ANT4 | Front Side 10mm | 0.047 | 0.077 | 0.124 |
| | | | | Back Side 10mm | 0.067 | 0.105 | 0.172 |

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 0.316 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

## 13.2.10 Body Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN and Bluetooth

| Band | Antenna | Band | Antenna | Position | Stand alone SAR | | | | | | | | | | Sum SAR | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | | | | |
| | | | | | LTE | NR | ENDC | 2.4G WIFI (Chain 0) | 2.4G WIFI (Chain 1) | 2.4G WIFI (MIMO) | 5G WIFI (Chain 0 MAX) | 5G WIFI (Chain 1 MAX) | 5G WIFI (MIMO MAX) | Blueto oth | Sum SAR (3+4) | Sum SAR (3+6) | Sum SAR (3+5 +10) | Sum SAR (3+7 +10) | Sum SAR (3+8 +10) | Sum SAR (3+9 +10) |
| | | | | | STATE 3 | STATE 3 | STATE 3 | LEVEL 7 | LEVEL 7 | LEVEL 7 | LEVEL 7 | LEVEL 7 | LEVEL 7 | | | | | | | |
| LTE B7 | ANT4 | N5 | ANT1 | Front Side 10mm | 0.128 | 0.042 | 0.170 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.212 | 0.226 | 0.239 | 0.239 | 0.246 | 0.261 |
| | | | | Back Side 10mm | 0.154 | 0.075 | 0.229 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.283 | 0.300 | 0.318 | 0.328 | 0.353 | 0.380 |
| LTE B7 | ANT3 | N5 | ANT0 | Front Side 10mm | 0.047 | 0.035 | 0.082 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.124 | 0.138 | 0.151 | 0.151 | 0.158 | 0.173 |
| | | | | Back Side 10mm | 0.086 | 0.059 | 0.145 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.199 | 0.216 | 0.234 | 0.244 | 0.269 | 0.296 |
| LTE B66 | ANT4 | N5 | ANT1 | Front Side 10mm | 0.015 | 0.042 | 0.057 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.099 | 0.113 | 0.126 | 0.126 | 0.133 | 0.148 |
| | | | | Back Side 10mm | 0.018 | 0.075 | 0.093 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.147 | 0.164 | 0.182 | 0.192 | 0.217 | 0.244 |
| LTE B66 | ANT3 | N5 | ANT0 | Front Side 10mm | 0.067 | 0.035 | 0.102 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.144 | 0.158 | 0.171 | 0.171 | 0.178 | 0.193 |
| | | | | Back Side 10mm | 0.084 | 0.059 | 0.143 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.197 | 0.214 | 0.232 | 0.242 | 0.267 | 0.294 |
| LTE B5 | ANT0 | N7 | ANT3 | Front Side 10mm | 0.046 | 0.018 | 0.064 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.106 | 0.120 | 0.133 | 0.133 | 0.140 | 0.155 |
| | | | | Back Side 10mm | 0.048 | 0.032 | 0.080 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.134 | 0.151 | 0.169 | 0.179 | 0.204 | 0.231 |
| LTE B5 | ANT1 | N7 | ANT4 | Front Side 10mm | 0.047 | 0.070 | 0.117 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.159 | 0.173 | 0.186 | 0.186 | 0.193 | 0.208 |
| | | | | Back Side 10mm | 0.067 | 0.087 | 0.154 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.208 | 0.225 | 0.243 | 0.253 | 0.278 | 0.305 |
| LTE B66 | ANT4 | N7 | ANT3 | Front Side 10mm | 0.018 | 0.018 | 0.036 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.078 | 0.092 | 0.105 | 0.105 | 0.112 | 0.127 |
| | | | | Back Side 10mm | 0.020 | 0.032 | 0.052 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.106 | 0.123 | 0.141 | 0.151 | 0.176 | 0.203 |
| LTE B66 | ANT1 | N7 | ANT1 | Front Side 10mm | 0.029 | 0.031 | 0.060 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.102 | 0.116 | 0.129 | 0.129 | 0.136 | 0.151 |
| | | | | Back Side 10mm | 0.041 | 0.060 | 0.101 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.155 | 0.172 | 0.190 | 0.200 | 0.225 | 0.252 |
| LTE B26 | ANT0 | N41 | ANT3 | Front Side 10mm | 0.029 | 0.017 | 0.046 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.088 | 0.102 | 0.115 | 0.115 | 0.122 | 0.137 |
| | | | | Back Side 10mm | 0.036 | 0.024 | 0.060 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.114 | 0.131 | 0.149 | 0.159 | 0.184 | 0.211 |
| LTE B26 | ANT1 | N41 | ANT4 | Front Side 10mm | 0.041 | 0.055 | 0.096 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.138 | 0.152 | 0.165 | 0.165 | 0.172 | 0.187 |
| | | | | Back Side 10mm | 0.057 | 0.075 | 0.132 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.186 | 0.203 | 0.221 | 0.231 | 0.256 | 0.283 |
| LTE B2 | ANT4 | N66 | ANT3 | Front Side 10mm | 0.103 | 0.178 | 0.281 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.323 | 0.337 | 0.350 | 0.350 | 0.357 | 0.372 |
| | | | | Back Side 10mm | 0.111 | 0.200 | 0.311 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.365 | 0.382 | 0.400 | 0.410 | 0.435 | 0.462 |
| LTE B7 | ANT4 | N66 | ANT3 | Front Side 10mm | 0.094 | 0.178 | 0.272 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.314 | 0.328 | 0.341 | 0.341 | 0.348 | 0.363 |
| | | | | Back Side 10mm | 0.116 | 0.200 | 0.316 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.370 | 0.387 | 0.405 | 0.415 | 0.440 | **0.467** |
| LTE B7 | ANT1 | N66 | ANT1 | Front Side 10mm | 0.034 | 0.077 | 0.111 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.153 | 0.167 | 0.180 | 0.180 | 0.187 | 0.202 |
| | | | | Back Side 10mm | 0.058 | 0.105 | 0.163 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.217 | 0.234 | 0.252 | 0.262 | 0.287 | 0.314 |
| LTE B5 | ANT0 | N66 | ANT3 | Front Side 10mm | 0.046 | 0.178 | 0.224 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.266 | 0.280 | 0.293 | 0.293 | 0.300 | 0.315 |
| | | | | Back Side 10mm | 0.048 | 0.200 | 0.248 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.302 | 0.319 | 0.337 | 0.347 | 0.372 | 0.399 |
| LTE B5 | ANT1 | N66 | ANT4 | Front Side 10mm | 0.047 | 0.029 | 0.076 | 0.042 | 0.040 | 0.056 | 0.040 | 0.047 | 0.062 | 0.029 | 0.118 | 0.132 | 0.145 | 0.145 | 0.152 | 0.167 |
| | | | | Back Side 10mm | 0.067 | 0.034 | 0.101 | 0.054 | 0.048 | 0.071 | 0.058 | 0.083 | 0.110 | 0.041 | 0.155 | 0.172 | 0.190 | 0.200 | 0.225 | 0.252 |

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 0.467 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

## 13.2.11 Body Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN and Bluetooth

| Band | Antenna | Band | Antenna | Position | Stand alone SAR | | | | | | | | | Sum SAR | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | |
| | | | | | LTE | NR | ENDC | LTE | NR | ENDC | 2.4G WIFI (Chain0) | 5G WIFI (Chain1 MAX) | Bluetooth | Sum SAR (3+9) | Sum SAR (6+7+8) |
| | | | | | STATE1 | STATE1 | STATE1 | STATE5 | STATE5 | STATE5 | LEVEL8 | LEVEL8 | | | |
| LTE B7 | ANT4 | N5 | ANT1 | Front Side 10mm | 0.128 | 0.042 | 0.170 | 0.128 | 0.042 | 0.170 | 0.028 | 0.025 | 0.029 | 0.199 | 0.223 |
| | | | | Back Side 10mm | 0.154 | 0.075 | 0.229 | 0.154 | 0.075 | 0.229 | 0.027 | 0.046 | 0.041 | 0.270 | 0.302 |
| LTE B7 | ANT3 | N5 | ANT0 | Front Side 10mm | 0.047 | 0.035 | 0.082 | 0.047 | 0.035 | 0.082 | 0.028 | 0.025 | 0.029 | 0.111 | 0.135 |
| | | | | Back Side 10mm | 0.086 | 0.059 | 0.145 | 0.086 | 0.059 | 0.145 | 0.027 | 0.046 | 0.041 | 0.186 | 0.218 |
| LTE B66 | ANT4 | N5 | ANT1 | Front Side 10mm | 0.015 | 0.042 | 0.057 | 0.015 | 0.042 | 0.057 | 0.028 | 0.025 | 0.029 | 0.086 | 0.110 |
| | | | | Back Side 10mm | 0.018 | 0.075 | 0.093 | 0.018 | 0.075 | 0.093 | 0.027 | 0.046 | 0.041 | 0.134 | 0.166 |
| LTE B66 | ANT3 | N5 | ANT0 | Front Side 10mm | 0.067 | 0.035 | 0.102 | 0.067 | 0.035 | 0.102 | 0.028 | 0.025 | 0.029 | 0.131 | 0.155 |
| | | | | Back Side 10mm | 0.084 | 0.059 | 0.143 | 0.084 | 0.059 | 0.143 | 0.027 | 0.046 | 0.041 | 0.184 | 0.216 |
| LTE B5 | ANT0 | N7 | ANT3 | Front Side 10mm | 0.046 | 0.018 | 0.064 | 0.046 | 0.010 | 0.056 | 0.028 | 0.025 | 0.029 | 0.093 | 0.109 |
| | | | | Back Side 10mm | 0.048 | 0.032 | 0.080 | 0.048 | 0.018 | 0.066 | 0.027 | 0.046 | 0.041 | 0.121 | 0.139 |
| LTE B5 | ANT1 | N7 | ANT4 | Front Side 10mm | 0.047 | 0.139 | 0.186 | 0.047 | 0.070 | 0.117 | 0.028 | 0.025 | 0.029 | 0.215 | 0.170 |
| | | | | Back Side 10mm | 0.067 | 0.175 | 0.242 | 0.067 | 0.087 | 0.154 | 0.027 | 0.046 | 0.041 | 0.283 | 0.227 |
| LTE B66 | ANT4 | N7 | ANT3 | Front Side 10mm | 0.015 | 0.018 | 0.033 | 0.018 | 0.010 | 0.028 | 0.028 | 0.025 | 0.029 | 0.062 | 0.081 |
| | | | | Back Side 10mm | 0.018 | 0.032 | 0.050 | 0.020 | 0.018 | 0.038 | 0.027 | 0.046 | 0.041 | 0.091 | 0.111 |
| LTE B66 | ANT1 | N7 | ANT1 | Front Side 10mm | 0.029 | 0.031 | 0.060 | 0.029 | 0.018 | 0.047 | 0.028 | 0.025 | 0.029 | 0.089 | 0.100 |
| | | | | Back Side 10mm | 0.041 | 0.060 | 0.101 | 0.041 | 0.037 | 0.078 | 0.027 | 0.046 | 0.041 | 0.142 | 0.151 |
| LTE B26 | ANT0 | N41 | ANT3 | Front Side 10mm | 0.029 | 0.024 | 0.053 | 0.029 | 0.017 | 0.046 | 0.028 | 0.025 | 0.029 | 0.082 | 0.099 |
| | | | | Back Side 10mm | 0.036 | 0.048 | 0.084 | 0.036 | 0.024 | 0.060 | 0.027 | 0.046 | 0.041 | 0.125 | 0.133 |
| LTE B26 | ANT1 | N41 | ANT4 | Front Side 10mm | 0.041 | 0.110 | 0.151 | 0.041 | 0.055 | 0.096 | 0.028 | 0.025 | 0.029 | 0.180 | 0.149 |
| | | | | Back Side 10mm | 0.057 | 0.154 | 0.211 | 0.057 | 0.075 | 0.132 | 0.027 | 0.046 | 0.041 | 0.252 | 0.205 |
| LTE B2 | ANT4 | N66 | ANT3 | Front Side 10mm | 0.103 | 0.178 | 0.281 | 0.103 | 0.091 | 0.194 | 0.028 | 0.025 | 0.029 | 0.310 | 0.247 |
| | | | | Back Side 10mm | 0.111 | 0.200 | 0.311 | 0.111 | 0.115 | 0.226 | 0.027 | 0.046 | 0.041 | 0.352 | 0.299 |
| LTE B7 | ANT4 | N66 | ANT3 | Front Side 10mm | 0.094 | 0.178 | 0.272 | 0.094 | 0.091 | 0.185 | 0.028 | 0.025 | 0.029 | 0.301 | 0.238 |
| | | | | Back Side 10mm | 0.116 | 0.200 | 0.316 | 0.116 | 0.115 | 0.231 | 0.027 | 0.046 | 0.041 | **0.357** | 0.304 |
| LTE B7 | ANT1 | N66 | ANT1 | Front Side 10mm | 0.034 | 0.077 | 0.111 | 0.034 | 0.038 | 0.072 | 0.028 | 0.025 | 0.029 | 0.140 | 0.125 |
| | | | | Back Side 10mm | 0.058 | 0.105 | 0.163 | 0.058 | 0.046 | 0.104 | 0.027 | 0.046 | 0.041 | 0.204 | 0.177 |
| LTE B5 | ANT0 | N66 | ANT3 | Front Side 10mm | 0.046 | 0.178 | 0.224 | 0.046 | 0.091 | 0.137 | 0.028 | 0.025 | 0.029 | 0.253 | 0.190 |
| | | | | Back Side 10mm | 0.048 | 0.200 | 0.248 | 0.048 | 0.115 | 0.163 | 0.027 | 0.046 | 0.041 | 0.289 | 0.236 |
| LTE B5 | ANT1 | N66 | ANT4 | Front Side 10mm | 0.047 | 0.056 | 0.103 | 0.047 | 0.029 | 0.076 | 0.028 | 0.025 | 0.029 | 0.132 | 0.129 |
| | | | | Back Side 10mm | 0.067 | 0.065 | 0.132 | 0.067 | 0.034 | 0.101 | 0.027 | 0.046 | 0.041 | 0.173 | 0.174 |

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 0.357 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

## 13.2.12 Body Simultaneous Transmission SAR Evaluation for WLAN and Bluetooth

| Position | Stand alone SAR | | | | | | | Sum SAR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | | | |
| | 2.4G WIFI (Chain0) | 2.4G WIFI (Chain1) | 2.4G WIFI (MIMO) | 5G WIFI (Chain0 MAX) | 5G WIFI (Chain1 MAX) | 5G WIFI (MIMO MAX) | Bluetooth | Sum SAR (1+7) | Sum SAR (4+7) | Sum SAR (5+7) | Sum SAR (6+7) | Sum SAR (1+5) |
| | Level6 | Level6 | Level6 | Level6 | Level6 | Level6 | | | | | | |
| Front Side 10mm | 0.112 | 0.063 | 0.142 | 0.040 | 0.047 | 0.062 | 0.029 | 0.141 | 0.069 | 0.076 | 0.091 | 0.159 |
| Back Side 10mm | 0.118 | 0.072 | 0.154 | 0.058 | 0.083 | 0.110 | 0.041 | 0.159 | 0.099 | 0.124 | 0.151 | **0.201** |

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 0.201 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

## 13.2.13 Hotspot Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN and Bluetooth

| Band | Antenna | Position | Stand alone SAR | | | | | | | | SUM SAR | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | |
| | | | WWAN | 2.4G WIFI (Chain0) | 2.4G WIFI (Chain1) | 2.4G WIFI (MIMO) | 5G WIFI (Chain0 MAX) | 5G WIFI (Chain1 MAX) | 5G WIFI (MIMO MAX) | Bluetooth | Sum SAR (1+2) | Sum SAR (1+3+8) | Sum SAR (1+4) | Sum SAR (1+5+8) | Sum SAR (1+6+8) | Sum SAR (1+7+8) |
| | | | STATE3 | LEVEL7 | LEVEL7 | LEVEL7 | LEVEL7 | LEVEL7 | LEVEL7 | | | | | | | |
| GSM850 | ANT1 | Front Side 10mm | 0.095 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.172 | 0.187 | 0.219 | 0.227 | 0.178 | 0.216 |
| | | Back Side 10mm | 0.139 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.214 | 0.252 | 0.274 | 0.329 | 0.296 | 0.302 |
| | | Left Edge 10mm | 0.012 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.069 | 0.217 | 0.326 | 0.330 | 0.060 | 0.248 |
| | | Right Edge 10mm | 0.173 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.197 | 0.194 | 0.179 | 0.197 | 0.224 | 0.220 |
| | | Top Edge 10mm | 0.006 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.181 | 0.113 | 0.196 | 0.217 | 0.290 | 0.324 |
| | | Bottom Edge 10mm | 0.013 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.025 | 0.025 | 0.016 | 0.093 | 0.027 | 0.069 |
| GSM850 | ANT0 | Front Side 10mm | 0.217 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.294 | 0.309 | 0.341 | 0.349 | 0.300 | 0.338 |
| | | Back Side 10mm | 0.330 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.405 | 0.443 | 0.465 | 0.520 | 0.487 | 0.493 |
| | | Left Edge 10mm | 0.055 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.112 | 0.260 | 0.369 | 0.373 | 0.103 | 0.291 |
| | | Right Edge 10mm | 0.188 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.212 | 0.209 | 0.194 | 0.212 | 0.239 | 0.235 |
| | | Top Edge 10mm | 0.000 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.175 | 0.107 | 0.190 | 0.211 | 0.284 | 0.318 |
| | | Bottom Edge 10mm | 0.241 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.253 | 0.253 | 0.244 | 0.321 | 0.255 | 0.297 |
| GSM1900 | ANT4 | Front Side 10mm | 0.204 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.281 | 0.296 | 0.328 | 0.336 | 0.287 | 0.325 |
| | | Back Side 10mm | 0.230 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.305 | 0.343 | 0.365 | 0.420 | 0.387 | 0.393 |
| | | Left Edge 10mm | 0.121 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.178 | 0.326 | 0.435 | 0.439 | 0.169 | 0.357 |
| | | Right Edge 10mm | 0.043 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.067 | 0.064 | 0.049 | 0.067 | 0.094 | 0.090 |
| | | Top Edge 10mm | 0.516 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.691 | 0.623 | 0.706 | 0.727 | 0.800 | 0.834 |
| | | Bottom Edge 10mm | 0.005 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.017 | 0.017 | 0.008 | 0.085 | 0.019 | 0.061 |
| GSM1900 | ANT3 | Front Side 10mm | 0.286 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.363 | 0.378 | 0.410 | 0.418 | 0.369 | 0.407 |
| | | Back Side 10mm | 0.362 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.437 | 0.475 | 0.497 | 0.552 | 0.519 | 0.525 |
| | | Left Edge 10mm | 0.102 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.159 | 0.307 | 0.416 | 0.420 | 0.150 | 0.338 |
| | | Right Edge 10mm | 0.117 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.141 | 0.138 | 0.123 | 0.141 | 0.168 | 0.164 |
| | | Top Edge 10mm | 0.020 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.195 | 0.127 | 0.210 | 0.231 | 0.304 | 0.338 |
| | | Bottom Edge 10mm | 0.731 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.743 | 0.743 | 0.734 | 0.811 | 0.745 | 0.787 |
| WCDMA B2 | ANT4 | Front Side 10mm | 0.470 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.547 | 0.562 | 0.594 | 0.602 | 0.553 | 0.591 |
| | | Back Side 10mm | 0.458 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.533 | 0.571 | 0.593 | 0.648 | 0.615 | 0.621 |
| | | Left Edge 10mm | 0.140 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.197 | 0.345 | 0.454 | 0.458 | 0.188 | 0.376 |
| | | Right Edge 10mm | 0.393 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.417 | 0.414 | 0.399 | 0.417 | 0.444 | 0.440 |
| | | Top Edge 10mm | 0.943 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 1.118 | 1.050 | 1.133 | 1.154 | 1.227 | **1.261** |
| | | Bottom Edge 10mm | 0.015 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.027 | 0.027 | 0.018 | 0.095 | 0.029 | 0.071 |
| WCDMA B2 | ANT3 | Front Side 10mm | 0.291 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.368 | 0.383 | 0.415 | 0.423 | 0.374 | 0.412 |
| | | Back Side 10mm | 0.390 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.465 | 0.503 | 0.525 | 0.580 | 0.547 | 0.553 |
| | | Left Edge 10mm | 0.140 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.197 | 0.345 | 0.454 | 0.458 | 0.188 | 0.376 |
| | | Right Edge 10mm | 0.075 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.099 | 0.096 | 0.081 | 0.099 | 0.126 | 0.122 |
| | | Top Edge 10mm | 0.007 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.182 | 0.114 | 0.197 | 0.218 | 0.291 | 0.325 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Bottom Edge 10mm | 0.803 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.815 | 0.815 | 0.806 | 0.883 | 0.817 | 0.859 |
| WCDMA B4 | ANT4 | Front Side 10mm | 0.167 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.244 | 0.259 | 0.291 | 0.299 | 0.250 | 0.288 |
| | | Back Side 10mm | 0.189 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.264 | 0.302 | 0.324 | 0.379 | 0.346 | 0.352 |
| | | Left Edge 10mm | 0.041 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.098 | 0.246 | 0.355 | 0.359 | 0.089 | 0.277 |
| | | Right Edge 10mm | 0.090 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.114 | 0.111 | 0.096 | 0.114 | 0.141 | 0.137 |
| | | Top Edge 10mm | 0.362 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.537 | 0.469 | 0.552 | 0.573 | 0.646 | 0.680 |
| | | Bottom Edge 10mm | 0.018 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.030 | 0.030 | 0.021 | 0.098 | 0.032 | 0.074 |
| WCDMA B4 | ANT3 | Front Side 10mm | 0.409 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.486 | 0.501 | 0.533 | 0.541 | 0.492 | 0.530 |
| | | Back Side 10mm | 0.488 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.563 | 0.601 | 0.623 | 0.678 | 0.645 | 0.651 |
| | | Left Edge 10mm | 0.137 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.194 | 0.342 | 0.451 | 0.455 | 0.185 | 0.373 |
| | | Right Edge 10mm | 0.104 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.128 | 0.125 | 0.110 | 0.128 | 0.155 | 0.151 |
| | | Top Edge 10mm | 0.000 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.175 | 0.107 | 0.190 | 0.211 | 0.284 | 0.318 |
| | | Bottom Edge 10mm | 0.956 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.968 | 0.968 | 0.959 | 1.036 | 0.970 | 1.012 |
| WCDMA B5 | ANT1 | Front Side 10mm | 0.125 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.202 | 0.217 | 0.249 | 0.257 | 0.208 | 0.246 |
| | | Back Side 10mm | 0.165 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.240 | 0.278 | 0.300 | 0.355 | 0.322 | 0.328 |
| | | Left Edge 10mm | 0.030 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.087 | 0.235 | 0.344 | 0.348 | 0.078 | 0.266 |
| | | Right Edge 10mm | 0.246 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.270 | 0.267 | 0.252 | 0.270 | 0.297 | 0.293 |
| | | Top Edge 10mm | 0.014 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.189 | 0.121 | 0.204 | 0.225 | 0.298 | 0.332 |
| | | Bottom Edge 10mm | 0.010 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.022 | 0.022 | 0.013 | 0.090 | 0.024 | 0.066 |
| WCDMA B5 | ANT0 | Front Side 10mm | 0.170 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.247 | 0.262 | 0.294 | 0.302 | 0.253 | 0.291 |
| | | Back Side 10mm | 0.244 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.319 | 0.357 | 0.379 | 0.434 | 0.401 | 0.407 |
| | | Left Edge 10mm | 0.077 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.134 | 0.282 | 0.391 | 0.395 | 0.125 | 0.313 |
| | | Right Edge 10mm | 0.153 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.177 | 0.174 | 0.159 | 0.177 | 0.204 | 0.200 |
| | | Top Edge 10mm | 0.001 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.176 | 0.108 | 0.191 | 0.212 | 0.285 | 0.319 |
| | | Bottom Edge 10mm | 0.181 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.193 | 0.193 | 0.184 | 0.261 | 0.195 | 0.237 |
| LTE B2 | ANT4 | Front Side 10mm | 0.386 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.463 | 0.478 | 0.510 | 0.518 | 0.469 | 0.507 |
| | | Back Side 10mm | 0.408 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.483 | 0.521 | 0.543 | 0.598 | 0.565 | 0.571 |
| | | Left Edge 10mm | 0.073 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.130 | 0.278 | 0.387 | 0.391 | 0.121 | 0.309 |
| | | Right Edge 10mm | 0.313 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.337 | 0.334 | 0.319 | 0.337 | 0.364 | 0.360 |
| | | Top Edge 10mm | 0.750 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.925 | 0.857 | 0.940 | 0.961 | 1.034 | 1.068 |
| | | Bottom Edge 10mm | 0.013 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.025 | 0.025 | 0.016 | 0.093 | 0.027 | 0.069 |
| LTE B2 | ANT3 | Front Side 10mm | 0.182 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.259 | 0.274 | 0.306 | 0.314 | 0.265 | 0.303 |
| | | Back Side 10mm | 0.264 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.339 | 0.377 | 0.399 | 0.454 | 0.421 | 0.427 |
| | | Left Edge 10mm | 0.079 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.136 | 0.284 | 0.393 | 0.397 | 0.127 | 0.315 |
| | | Right Edge 10mm | 0.042 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.066 | 0.063 | 0.048 | 0.066 | 0.093 | 0.089 |
| | | Top Edge 10mm | 0.012 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.187 | 0.119 | 0.202 | 0.223 | 0.296 | 0.330 |
| | | Bottom Edge 10mm | 0.548 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.560 | 0.560 | 0.551 | 0.628 | 0.562 | 0.604 |
| LTE B4 | ANT4 | Front Side 10mm | 0.084 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.161 | 0.176 | 0.208 | 0.216 | 0.167 | 0.205 |
| | | Back Side 10mm | 0.103 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.178 | 0.216 | 0.238 | 0.293 | 0.260 | 0.266 |
| | | Left Edge 10mm | 0.021 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.078 | 0.226 | 0.335 | 0.339 | 0.069 | 0.257 |
| | | Right Edge 10mm | 0.045 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.069 | 0.066 | 0.051 | 0.069 | 0.096 | 0.092 |
| | | Top Edge 10mm | 0.185 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.360 | 0.292 | 0.375 | 0.396 | 0.469 | 0.503 |
| | | Bottom Edge 10mm | 0.010 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.022 | 0.022 | 0.013 | 0.090 | 0.024 | 0.066 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LTE B4 | ANT3 | Front Side 10mm | 0.383 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.460 | 0.475 | 0.507 | 0.515 | 0.466 | 0.504 |
| | | Back Side 10mm | 0.442 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.517 | 0.555 | 0.577 | 0.632 | 0.599 | 0.605 |
| | | Left Edge 10mm | 0.148 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.205 | 0.353 | 0.462 | 0.466 | 0.196 | 0.384 |
| | | Right Edge 10mm | 0.099 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.123 | 0.120 | 0.105 | 0.123 | 0.150 | 0.146 |
| | | Top Edge 10mm | 0.016 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.191 | 0.123 | 0.206 | 0.227 | 0.300 | 0.334 |
| | | Bottom Edge 10mm | 0.866 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.878 | 0.878 | 0.869 | 0.946 | 0.880 | 0.922 |
| LTE B5 | ANT1 | Front Side 10mm | 0.093 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.170 | 0.185 | 0.217 | 0.225 | 0.176 | 0.214 |
| | | Back Side 10mm | 0.137 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.212 | 0.250 | 0.272 | 0.327 | 0.294 | 0.300 |
| | | Left Edge 10mm | 0.031 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.088 | 0.236 | 0.345 | 0.349 | 0.079 | 0.267 |
| | | Right Edge 10mm | 0.157 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.181 | 0.178 | 0.163 | 0.181 | 0.208 | 0.204 |
| | | Top Edge 10mm | 0.023 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.198 | 0.130 | 0.213 | 0.234 | 0.307 | 0.341 |
| | | Bottom Edge 10mm | 0.017 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.029 | 0.029 | 0.020 | 0.097 | 0.031 | 0.073 |
| LTE B5 | ANT0 | Front Side 10mm | 0.181 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.258 | 0.273 | 0.305 | 0.313 | 0.264 | 0.302 |
| | | Back Side 10mm | 0.232 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.307 | 0.345 | 0.367 | 0.422 | 0.389 | 0.395 |
| | | Left Edge 10mm | 0.054 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.111 | 0.259 | 0.368 | 0.372 | 0.102 | 0.290 |
| | | Right Edge 10mm | 0.146 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.170 | 0.167 | 0.152 | 0.170 | 0.197 | 0.193 |
| | | Top Edge 10mm | 0.026 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.201 | 0.133 | 0.216 | 0.237 | 0.310 | 0.344 |
| | | Bottom Edge 10mm | 0.162 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.174 | 0.174 | 0.165 | 0.242 | 0.176 | 0.218 |
| LTE B7 | ANT4 | Front Side 10mm | 0.301 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.378 | 0.393 | 0.425 | 0.433 | 0.384 | 0.422 |
| | | Back Side 10mm | 0.372 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.447 | 0.485 | 0.507 | 0.562 | 0.529 | 0.535 |
| | | Left Edge 10mm | 0.087 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.144 | 0.292 | 0.401 | 0.405 | 0.135 | 0.323 |
| | | Right Edge 10mm | 0.188 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.212 | 0.209 | 0.194 | 0.212 | 0.239 | 0.235 |
| | | Top Edge 10mm | 0.585 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.760 | 0.692 | 0.775 | 0.796 | 0.869 | 0.903 |
| | | Bottom Edge 10mm | 0.032 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.044 | 0.044 | 0.035 | 0.112 | 0.046 | 0.088 |
| LTE B7 | ANT3 | Front Side 10mm | 0.131 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.208 | 0.223 | 0.255 | 0.263 | 0.214 | 0.252 |
| | | Back Side 10mm | 0.316 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.391 | 0.429 | 0.451 | 0.506 | 0.473 | 0.479 |
| | | Left Edge 10mm | 0.086 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.143 | 0.291 | 0.400 | 0.404 | 0.134 | 0.322 |
| | | Right Edge 10mm | 0.072 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.096 | 0.093 | 0.078 | 0.096 | 0.123 | 0.119 |
| | | Top Edge 10mm | 0.025 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.200 | 0.132 | 0.215 | 0.236 | 0.309 | 0.343 |
| | | Bottom Edge 10mm | 0.579 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.591 | 0.591 | 0.582 | 0.659 | 0.593 | 0.635 |
| LTE B12 | ANT1 | Front Side 10mm | 0.052 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.129 | 0.144 | 0.176 | 0.184 | 0.135 | 0.173 |
| | | Back Side 10mm | 0.075 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.150 | 0.188 | 0.210 | 0.265 | 0.232 | 0.238 |
| | | Left Edge 10mm | 0.029 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.086 | 0.234 | 0.343 | 0.347 | 0.077 | 0.265 |
| | | Right Edge 10mm | 0.119 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.143 | 0.140 | 0.125 | 0.143 | 0.170 | 0.166 |
| | | Top Edge 10mm | 0.014 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.189 | 0.121 | 0.204 | 0.225 | 0.298 | 0.332 |
| | | Bottom Edge 10mm | 0.010 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.022 | 0.022 | 0.013 | 0.090 | 0.024 | 0.066 |
| LTE B12 | ANT0 | Front Side 10mm | 0.110 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.187 | 0.202 | 0.234 | 0.242 | 0.193 | 0.231 |
| | | Back Side 10mm | 0.140 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.215 | 0.253 | 0.275 | 0.330 | 0.297 | 0.303 |
| | | Left Edge 10mm | 0.084 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.141 | 0.289 | 0.398 | 0.402 | 0.132 | 0.320 |
| | | Right Edge 10mm | 0.196 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.220 | 0.217 | 0.202 | 0.220 | 0.247 | 0.243 |
| | | Top Edge 10mm | 0.030 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.205 | 0.137 | 0.220 | 0.241 | 0.314 | 0.348 |
| | | Bottom Edge 10mm | 0.117 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.129 | 0.129 | 0.120 | 0.197 | 0.131 | 0.173 |
| LTE B13 | ANT1 | Front Side 10mm | 0.039 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.116 | 0.131 | 0.163 | 0.171 | 0.122 | 0.160 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Back Side 10mm | 0.064 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.139 | 0.177 | 0.199 | 0.254 | 0.221 | 0.227 |
| | | Left Edge 10mm | 0.029 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.086 | 0.234 | 0.343 | 0.347 | 0.077 | 0.265 |
| | | Right Edge 10mm | 0.095 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.119 | 0.116 | 0.101 | 0.119 | 0.146 | 0.142 |
| | | Top Edge 10mm | 0.051 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.226 | 0.158 | 0.241 | 0.262 | 0.335 | 0.369 |
| | | Bottom Edge 10mm | 0.028 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.040 | 0.040 | 0.031 | 0.108 | 0.042 | 0.084 |
| LTE B13 | ANT0 | Front Side 10mm | 0.061 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.138 | 0.153 | 0.185 | 0.193 | 0.144 | 0.182 |
| | | Back Side 10mm | 0.067 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.142 | 0.180 | 0.202 | 0.257 | 0.224 | 0.230 |
| | | Left Edge 10mm | 0.033 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.090 | 0.238 | 0.347 | 0.351 | 0.081 | 0.269 |
| | | Right Edge 10mm | 0.071 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.095 | 0.092 | 0.077 | 0.095 | 0.122 | 0.118 |
| | | Top Edge 10mm | 0.022 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.197 | 0.129 | 0.212 | 0.233 | 0.306 | 0.340 |
| | | Bottom Edge 10mm | 0.067 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.079 | 0.079 | 0.070 | 0.147 | 0.081 | 0.123 |
| LTE B17 | ANT1 | Front Side 10mm | 0.049 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.126 | 0.141 | 0.173 | 0.181 | 0.132 | 0.170 |
| | | Back Side 10mm | 0.054 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.129 | 0.167 | 0.189 | 0.244 | 0.211 | 0.217 |
| | | Left Edge 10mm | 0.092 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.149 | 0.297 | 0.406 | 0.410 | 0.140 | 0.328 |
| | | Right Edge 10mm | 0.081 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.105 | 0.102 | 0.087 | 0.105 | 0.132 | 0.128 |
| | | Top Edge 10mm | 0.037 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.212 | 0.144 | 0.227 | 0.248 | 0.321 | 0.355 |
| | | Bottom Edge 10mm | 0.018 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.030 | 0.030 | 0.021 | 0.098 | 0.032 | 0.074 |
| LTE B17 | ANT0 | Front Side 10mm | 0.077 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.154 | 0.169 | 0.201 | 0.209 | 0.160 | 0.198 |
| | | Back Side 10mm | 0.104 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.179 | 0.217 | 0.239 | 0.294 | 0.261 | 0.267 |
| | | Left Edge 10mm | 0.072 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.129 | 0.277 | 0.386 | 0.390 | 0.120 | 0.308 |
| | | Right Edge 10mm | 0.121 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.145 | 0.142 | 0.127 | 0.145 | 0.172 | 0.168 |
| | | Top Edge 10mm | 0.015 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.190 | 0.122 | 0.205 | 0.226 | 0.299 | 0.333 |
| | | Bottom Edge 10mm | 0.077 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.089 | 0.089 | 0.080 | 0.157 | 0.091 | 0.133 |
| LTE B26 | ANT1 | Front Side 10mm | 0.070 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.147 | 0.162 | 0.194 | 0.202 | 0.153 | 0.191 |
| | | Back Side 10mm | 0.110 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.185 | 0.223 | 0.245 | 0.300 | 0.267 | 0.273 |
| | | Left Edge 10mm | 0.041 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.098 | 0.246 | 0.355 | 0.359 | 0.089 | 0.277 |
| | | Right Edge 10mm | 0.085 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.109 | 0.106 | 0.091 | 0.109 | 0.136 | 0.132 |
| | | Top Edge 10mm | 0.032 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.207 | 0.139 | 0.222 | 0.243 | 0.316 | 0.350 |
| | | Bottom Edge 10mm | 0.019 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.031 | 0.031 | 0.022 | 0.099 | 0.033 | 0.075 |
| LTE B26 | ANT0 | Front Side 10mm | 0.142 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.219 | 0.234 | 0.266 | 0.274 | 0.225 | 0.263 |
| | | Back Side 10mm | 0.222 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.297 | 0.335 | 0.357 | 0.412 | 0.379 | 0.385 |
| | | Left Edge 10mm | 0.042 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.099 | 0.247 | 0.356 | 0.360 | 0.090 | 0.278 |
| | | Right Edge 10mm | 0.088 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.112 | 0.109 | 0.094 | 0.112 | 0.139 | 0.135 |
| | | Top Edge 10mm | 0.012 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.187 | 0.119 | 0.202 | 0.223 | 0.296 | 0.330 |
| | | Bottom Edge 10mm | 0.106 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.118 | 0.118 | 0.109 | 0.186 | 0.120 | 0.162 |
| LTE B66 | ANT4 | Front Side 10mm | 0.108 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.185 | 0.200 | 0.232 | 0.240 | 0.191 | 0.229 |
| | | Back Side 10mm | 0.111 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.186 | 0.224 | 0.246 | 0.301 | 0.268 | 0.274 |
| | | Left Edge 10mm | 0.026 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.083 | 0.231 | 0.340 | 0.344 | 0.074 | 0.262 |
| | | Right Edge 10mm | 0.065 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.089 | 0.086 | 0.071 | 0.089 | 0.116 | 0.112 |
| | | Top Edge 10mm | 0.236 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.411 | 0.343 | 0.426 | 0.447 | 0.520 | 0.554 |
| | | Bottom Edge 10mm | 0.012 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.024 | 0.024 | 0.015 | 0.092 | 0.026 | 0.068 |
| LTE B66 | ANT3 | Front Side 10mm | 0.399 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.476 | 0.491 | 0.523 | 0.531 | 0.482 | 0.520 |
| | | Back Side 10mm | 0.505 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.580 | 0.618 | 0.640 | 0.695 | 0.662 | 0.668 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Left Edge 10mm | 0.157 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.214 | 0.362 | 0.471 | 0.475 | 0.205 | 0.393 |
| | | Right Edge 10mm | 0.095 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.119 | 0.116 | 0.101 | 0.119 | 0.146 | 0.142 |
| | | Top Edge 10mm | 0.038 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.213 | 0.145 | 0.228 | 0.249 | 0.322 | 0.356 |
| | | Bottom Edge 10mm | 0.882 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.894 | 0.894 | 0.885 | 0.962 | 0.896 | 0.938 |
| LTE B38 | ANT4 | Front Side 10mm | 0.242 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.319 | 0.334 | 0.366 | 0.374 | 0.325 | 0.363 |
| | | Back Side 10mm | 0.323 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.398 | 0.436 | 0.458 | 0.513 | 0.480 | 0.486 |
| | | Left Edge 10mm | 0.051 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.108 | 0.256 | 0.365 | 0.369 | 0.099 | 0.287 |
| | | Right Edge 10mm | 0.103 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.127 | 0.124 | 0.109 | 0.127 | 0.154 | 0.150 |
| | | Top Edge 10mm | 0.676 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.851 | 0.783 | 0.866 | 0.887 | 0.960 | 0.994 |
| | | Bottom Edge 10mm | 0.038 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.050 | 0.050 | 0.041 | 0.118 | 0.052 | 0.094 |
| LTE B38 | ANT3 | Front Side 10mm | 0.358 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.435 | 0.450 | 0.482 | 0.490 | 0.441 | 0.479 |
| | | Back Side 10mm | 0.431 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.506 | 0.544 | 0.566 | 0.621 | 0.588 | 0.594 |
| | | Left Edge 10mm | 0.103 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.160 | 0.308 | 0.417 | 0.421 | 0.151 | 0.339 |
| | | Right Edge 10mm | 0.091 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.115 | 0.112 | 0.097 | 0.115 | 0.142 | 0.138 |
| | | Top Edge 10mm | 0.037 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.212 | 0.144 | 0.227 | 0.248 | 0.321 | 0.355 |
| | | Bottom Edge 10mm | 0.685 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.697 | 0.697 | 0.688 | 0.765 | 0.699 | 0.741 |
| LTE B41 | ANT4 | Front Side 10mm | 0.134 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.211 | 0.226 | 0.258 | 0.266 | 0.217 | 0.255 |
| | | Back Side 10mm | 0.185 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.260 | 0.298 | 0.320 | 0.375 | 0.342 | 0.348 |
| | | Left Edge 10mm | 0.072 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.129 | 0.277 | 0.386 | 0.390 | 0.120 | 0.308 |
| | | Right Edge 10mm | 0.046 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.070 | 0.067 | 0.052 | 0.070 | 0.097 | 0.093 |
| | | Top Edge 10mm | 0.371 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.546 | 0.478 | 0.561 | 0.582 | 0.655 | 0.689 |
| | | Bottom Edge 10mm | 0.072 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.084 | 0.084 | 0.075 | 0.152 | 0.086 | 0.128 |
| LTE B41 | ANT3 | Front Side 10mm | 0.272 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.349 | 0.364 | 0.396 | 0.404 | 0.355 | 0.393 |
| | | Back Side 10mm | 0.311 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.386 | 0.424 | 0.446 | 0.501 | 0.468 | 0.474 |
| | | Left Edge 10mm | 0.091 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.148 | 0.296 | 0.405 | 0.409 | 0.139 | 0.327 |
| | | Right Edge 10mm | 0.065 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.089 | 0.086 | 0.071 | 0.089 | 0.116 | 0.112 |
| | | Top Edge 10mm | 0.031 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.206 | 0.138 | 0.221 | 0.242 | 0.315 | 0.349 |
| | | Bottom Edge 10mm | 0.608 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.620 | 0.620 | 0.611 | 0.688 | 0.622 | 0.664 |
| N5 | ANT1 | Front Side 10mm | 0.090 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.167 | 0.182 | 0.214 | 0.222 | 0.173 | 0.211 |
| | | Back Side 10mm | 0.121 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.196 | 0.234 | 0.256 | 0.311 | 0.278 | 0.284 |
| | | Left Edge 10mm | 0.049 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.106 | 0.254 | 0.363 | 0.367 | 0.097 | 0.285 |
| | | Right Edge 10mm | 0.143 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.167 | 0.164 | 0.149 | 0.167 | 0.194 | 0.190 |
| | | Top Edge 10mm | 0.032 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.207 | 0.139 | 0.222 | 0.243 | 0.316 | 0.350 |
| | | Bottom Edge 10mm | 0.024 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.036 | 0.036 | 0.027 | 0.104 | 0.038 | 0.080 |
| N5 | ANT0 | Front Side 10mm | 0.110 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.187 | 0.202 | 0.234 | 0.242 | 0.193 | 0.231 |
| | | Back Side 10mm | 0.196 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.271 | 0.309 | 0.331 | 0.386 | 0.353 | 0.359 |
| | | Left Edge 10mm | 0.005 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.062 | 0.210 | 0.319 | 0.323 | 0.053 | 0.241 |
| | | Right Edge 10mm | 0.096 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.120 | 0.117 | 0.102 | 0.120 | 0.147 | 0.143 |
| | | Top Edge 10mm | 0.006 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.181 | 0.113 | 0.196 | 0.217 | 0.290 | 0.324 |
| | | Bottom Edge 10mm | 0.143 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.155 | 0.155 | 0.146 | 0.223 | 0.157 | 0.199 |
| N7 | ANT4 | Front Side 10mm | 0.175 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.252 | 0.267 | 0.299 | 0.307 | 0.258 | 0.296 |
| | | Back Side 10mm | 0.204 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.279 | 0.317 | 0.339 | 0.394 | 0.361 | 0.367 |
| | | Left Edge 10mm | 0.081 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.138 | 0.286 | 0.395 | 0.399 | 0.129 | 0.317 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Right Edge 10mm | 0.102 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.126 | 0.123 | 0.108 | 0.126 | 0.153 | 0.149 |
| | | Top Edge 10mm | 0.385 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.560 | 0.492 | 0.575 | 0.596 | 0.669 | 0.703 |
| | | Bottom Edge 10mm | 0.012 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.024 | 0.024 | 0.015 | 0.092 | 0.026 | 0.068 |
| N7 | ANT3 | Front Side 10mm | 0.097 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.174 | 0.189 | 0.221 | 0.229 | 0.180 | 0.218 |
| | | Back Side 10mm | 0.119 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.194 | 0.232 | 0.254 | 0.309 | 0.276 | 0.282 |
| | | Left Edge 10mm | 0.022 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.079 | 0.227 | 0.336 | 0.340 | 0.070 | 0.258 |
| | | Right Edge 10mm | 0.008 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.032 | 0.029 | 0.014 | 0.032 | 0.059 | 0.055 |
| | | Top Edge 10mm | 0.018 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.193 | 0.125 | 0.208 | 0.229 | 0.302 | 0.336 |
| | | Bottom Edge 10mm | 0.668 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.680 | 0.680 | 0.671 | 0.748 | 0.682 | 0.724 |
| N38 | ANT4 | Front Side 10mm | 0.224 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.301 | 0.316 | 0.348 | 0.356 | 0.307 | 0.345 |
| | | Back Side 10mm | 0.250 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.325 | 0.363 | 0.385 | 0.440 | 0.407 | 0.413 |
| | | Left Edge 10mm | 0.076 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.133 | 0.281 | 0.390 | 0.394 | 0.124 | 0.312 |
| | | Right Edge 10mm | 0.127 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.151 | 0.148 | 0.133 | 0.151 | 0.178 | 0.174 |
| | | Top Edge 10mm | 0.587 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.762 | 0.694 | 0.777 | 0.798 | 0.871 | 0.905 |
| | | Bottom Edge 10mm | 0.028 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.040 | 0.040 | 0.031 | 0.108 | 0.042 | 0.084 |
| N38 | ANT3 | Front Side 10mm | 0.076 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.153 | 0.168 | 0.200 | 0.208 | 0.159 | 0.197 |
| | | Back Side 10mm | 0.253 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.328 | 0.366 | 0.388 | 0.443 | 0.410 | 0.416 |
| | | Left Edge 10mm | 0.069 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.126 | 0.274 | 0.383 | 0.387 | 0.117 | 0.305 |
| | | Right Edge 10mm | 0.025 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.049 | 0.046 | 0.031 | 0.049 | 0.076 | 0.072 |
| | | Top Edge 10mm | 0.018 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.193 | 0.125 | 0.208 | 0.229 | 0.302 | 0.336 |
| | | Bottom Edge 10mm | 0.556 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.568 | 0.568 | 0.559 | 0.636 | 0.570 | 0.612 |
| N41 | ANT4 | Front Side 10mm | 0.199 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.276 | 0.291 | 0.323 | 0.331 | 0.282 | 0.320 |
| | | Back Side 10mm | 0.268 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.343 | 0.381 | 0.403 | 0.458 | 0.425 | 0.431 |
| | | Left Edge 10mm | 0.061 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.118 | 0.266 | 0.375 | 0.379 | 0.109 | 0.297 |
| | | Right Edge 10mm | 0.098 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.122 | 0.119 | 0.104 | 0.122 | 0.149 | 0.145 |
| | | Top Edge 10mm | 0.593 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.768 | 0.700 | 0.783 | 0.804 | 0.877 | 0.911 |
| | | Bottom Edge 10mm | 0.024 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.036 | 0.036 | 0.027 | 0.104 | 0.038 | 0.080 |
| N41 | ANT3 | Front Side 10mm | 0.150 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.227 | 0.242 | 0.274 | 0.282 | 0.233 | 0.271 |
| | | Back Side 10mm | 0.397 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.472 | 0.510 | 0.532 | 0.587 | 0.554 | 0.560 |
| | | Left Edge 10mm | 0.077 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.134 | 0.282 | 0.391 | 0.395 | 0.125 | 0.313 |
| | | Right Edge 10mm | 0.045 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.069 | 0.066 | 0.051 | 0.069 | 0.096 | 0.092 |
| | | Top Edge 10mm | 0.065 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.240 | 0.172 | 0.255 | 0.276 | 0.349 | 0.383 |
| | | Bottom Edge 10mm | 0.899 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.911 | 0.911 | 0.902 | 0.979 | 0.913 | 0.955 |
| N66 | ANT4 | Front Side 10mm | 0.147 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.224 | 0.239 | 0.271 | 0.279 | 0.230 | 0.268 |
| | | Back Side 10mm | 0.157 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.232 | 0.270 | 0.292 | 0.347 | 0.314 | 0.320 |
| | | Left Edge 10mm | 0.019 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.076 | 0.224 | 0.333 | 0.337 | 0.067 | 0.255 |
| | | Right Edge 10mm | 0.105 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.129 | 0.126 | 0.111 | 0.129 | 0.156 | 0.152 |
| | | Top Edge 10mm | 0.287 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.462 | 0.394 | 0.477 | 0.498 | 0.571 | 0.605 |
| | | Bottom Edge 10mm | 0.022 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.034 | 0.034 | 0.025 | 0.102 | 0.036 | 0.078 |
| N66 | ANT3 | Front Side 10mm | 0.488 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.565 | 0.580 | 0.612 | 0.620 | 0.571 | 0.609 |
| | | Back Side 10mm | 0.519 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.594 | 0.632 | 0.654 | 0.709 | 0.676 | 0.682 |
| | | Left Edge 10mm | 0.191 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.248 | 0.396 | 0.505 | 0.509 | 0.239 | 0.427 |
| | | Right Edge 10mm | 0.047 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.071 | 0.068 | 0.053 | 0.071 | 0.098 | 0.094 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Top Edge 10mm | 0.041 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.216 | 0.148 | 0.231 | 0.252 | 0.325 | 0.359 |
| | | Bottom Edge 10mm | 0.733 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.745 | 0.745 | 0.736 | 0.813 | 0.747 | 0.789 |

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 1.261 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

## 13.2.14 Hotspot Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN and Bluetooth

| Band | Antenna | Position | Stand alone SAR | | | | | SUM SAR | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 | 5 | | |
| | | | WWAN | WWAN | 2.4G WIFI (Chain0) | 5G WIFI (Chain1) | Bluetooth | Sum SAR (1+5) | Sum SAR (2+3+4) |
| | | | STATE1 | STATE5 | LEVEL8 | Level8 | | | |
| GSM850 | ANT1 | Front Side 10mm | 0.095 | 0.095 | 0.049 | 0.027 | 0.034 | 0.129 | 0.171 |
| | | Back Side 10mm | 0.139 | 0.139 | 0.056 | 0.051 | 0.047 | 0.186 | 0.246 |
| | | Left Edge 10mm | 0.012 | 0.012 | 0.033 | 0.009 | 0.030 | 0.042 | 0.054 |
| | | Right Edge 10mm | 0.173 | 0.173 | 0.006 | 0.020 | 0.004 | 0.177 | 0.199 |
| | | Top Edge 10mm | 0.006 | 0.006 | 0.087 | 0.102 | 0.102 | 0.108 | 0.195 |
| | | Bottom Edge 10mm | 0.013 | 0.013 | 0.012 | 0.008 | 0.006 | 0.019 | 0.033 |
| GSM850 | ANT0 | Front Side 10mm | 0.217 | 0.217 | 0.049 | 0.027 | 0.034 | 0.251 | 0.293 |
| | | Back Side 10mm | 0.330 | 0.330 | 0.056 | 0.051 | 0.047 | 0.377 | 0.437 |
| | | Left Edge 10mm | 0.055 | 0.055 | 0.033 | 0.009 | 0.030 | 0.085 | 0.097 |
| | | Right Edge 10mm | 0.188 | 0.188 | 0.006 | 0.020 | 0.004 | 0.192 | 0.214 |
| | | Top Edge 10mm | 0.000 | 0.000 | 0.087 | 0.102 | 0.102 | 0.102 | 0.189 |
| | | Bottom Edge 10mm | 0.241 | 0.241 | 0.012 | 0.008 | 0.006 | 0.247 | 0.261 |
| GSM1900 | ANT4 | Front Side 10mm | 0.289 | 0.204 | 0.049 | 0.027 | 0.034 | 0.323 | 0.280 |
| | | Back Side 10mm | 0.326 | 0.230 | 0.056 | 0.051 | 0.047 | 0.373 | 0.337 |
| | | Left Edge 10mm | 0.171 | 0.121 | 0.033 | 0.009 | 0.030 | 0.201 | 0.163 |
| | | Right Edge 10mm | 0.061 | 0.043 | 0.006 | 0.020 | 0.004 | 0.065 | 0.069 |
| | | Top Edge 10mm | 0.731 | 0.516 | 0.087 | 0.102 | 0.102 | 0.833 | 0.705 |
| | | Bottom Edge 10mm | 0.007 | 0.005 | 0.012 | 0.008 | 0.006 | 0.013 | 0.025 |
| GSM1900 | ANT3 | Front Side 10mm | 0.286 | 0.204 | 0.049 | 0.027 | 0.034 | 0.320 | 0.280 |
| | | Back Side 10mm | 0.362 | 0.258 | 0.056 | 0.051 | 0.047 | 0.409 | 0.365 |
| | | Left Edge 10mm | 0.102 | 0.073 | 0.033 | 0.009 | 0.030 | 0.132 | 0.115 |
| | | Right Edge 10mm | 0.117 | 0.083 | 0.006 | 0.020 | 0.004 | 0.121 | 0.109 |
| | | Top Edge 10mm | 0.020 | 0.014 | 0.087 | 0.102 | 0.102 | 0.122 | 0.203 |
| | | Bottom Edge 10mm | 0.731 | 0.520 | 0.012 | 0.008 | 0.006 | 0.737 | 0.540 |
| WCDMA B2 | ANT4 | Front Side 10mm | 0.470 | 0.470 | 0.049 | 0.027 | 0.034 | 0.504 | 0.546 |
| | | Back Side 10mm | 0.458 | 0.458 | 0.056 | 0.051 | 0.047 | 0.505 | 0.565 |
| | | Left Edge 10mm | 0.140 | 0.140 | 0.033 | 0.009 | 0.030 | 0.170 | 0.182 |
| | | Right Edge 10mm | 0.393 | 0.393 | 0.006 | 0.020 | 0.004 | 0.397 | 0.419 |
| | | Top Edge 10mm | 0.943 | 0.943 | 0.087 | 0.102 | 0.102 | 1.045 | **1.132** |
| | | Bottom Edge 10mm | 0.015 | 0.015 | 0.012 | 0.008 | 0.006 | 0.021 | 0.035 |
| WCDMA B2 | ANT3 | Front Side 10mm | 0.291 | 0.221 | 0.049 | 0.027 | 0.034 | 0.325 | 0.297 |
| | | Back Side 10mm | 0.390 | 0.281 | 0.056 | 0.051 | 0.047 | 0.437 | 0.388 |
| | | Left Edge 10mm | 0.140 | 0.090 | 0.033 | 0.009 | 0.030 | 0.170 | 0.132 |
| | | Right Edge 10mm | 0.075 | 0.062 | 0.006 | 0.020 | 0.004 | 0.079 | 0.088 |
| | | Top Edge 10mm | 0.007 | 0.002 | 0.087 | 0.102 | 0.102 | 0.109 | 0.191 |
| | | Bottom Edge 10mm | 0.803 | 0.592 | 0.012 | 0.008 | 0.006 | 0.809 | 0.612 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| WCDMA B4 | ANT4 | Front Side 10mm | 0.245 | 0.167 | 0.049 | 0.027 | 0.034 | 0.279 | 0.243 |
| | | Back Side 10mm | 0.280 | 0.189 | 0.056 | 0.051 | 0.047 | 0.327 | 0.296 |
| | | Left Edge 10mm | 0.060 | 0.041 | 0.033 | 0.009 | 0.030 | 0.090 | 0.083 |
| | | Right Edge 10mm | 0.132 | 0.090 | 0.006 | 0.020 | 0.004 | 0.136 | 0.116 |
| | | Top Edge 10mm | 0.533 | 0.362 | 0.087 | 0.102 | 0.102 | 0.635 | 0.551 |
| | | Bottom Edge 10mm | 0.027 | 0.018 | 0.012 | 0.008 | 0.006 | 0.033 | 0.038 |
| WCDMA B4 | ANT3 | Front Side 10mm | 0.409 | 0.261 | 0.049 | 0.027 | 0.034 | 0.443 | 0.337 |
| | | Back Side 10mm | 0.488 | 0.312 | 0.056 | 0.051 | 0.047 | 0.535 | 0.419 |
| | | Left Edge 10mm | 0.137 | 0.087 | 0.033 | 0.009 | 0.030 | 0.167 | 0.129 |
| | | Right Edge 10mm | 0.104 | 0.067 | 0.006 | 0.020 | 0.004 | 0.108 | 0.093 |
| | | Top Edge 10mm | 0.000 | 0.000 | 0.087 | 0.102 | 0.102 | 0.102 | 0.189 |
| | | Bottom Edge 10mm | 0.956 | 0.625 | 0.012 | 0.008 | 0.006 | 0.962 | 0.645 |
| WCDMA B5 | ANT1 | Front Side 10mm | 0.125 | 0.170 | 0.049 | 0.027 | 0.034 | 0.159 | 0.246 |
| | | Back Side 10mm | 0.165 | 0.244 | 0.056 | 0.051 | 0.047 | 0.212 | 0.351 |
| | | Left Edge 10mm | 0.030 | 0.077 | 0.033 | 0.009 | 0.030 | 0.060 | 0.119 |
| | | Right Edge 10mm | 0.246 | 0.153 | 0.006 | 0.020 | 0.004 | 0.250 | 0.179 |
| | | Top Edge 10mm | 0.014 | 0.001 | 0.087 | 0.102 | 0.102 | 0.116 | 0.190 |
| | | Bottom Edge 10mm | 0.010 | 0.181 | 0.012 | 0.008 | 0.006 | 0.016 | 0.201 |
| WCDMA B5 | ANT0 | Front Side 10mm | 0.170 | 0.170 | 0.049 | 0.027 | 0.034 | 0.204 | 0.246 |
| | | Back Side 10mm | 0.244 | 0.244 | 0.056 | 0.051 | 0.047 | 0.291 | 0.351 |
| | | Left Edge 10mm | 0.077 | 0.077 | 0.033 | 0.009 | 0.030 | 0.107 | 0.119 |
| | | Right Edge 10mm | 0.153 | 0.153 | 0.006 | 0.020 | 0.004 | 0.157 | 0.179 |
| | | Top Edge 10mm | 0.001 | 0.001 | 0.087 | 0.102 | 0.102 | 0.103 | 0.190 |
| | | Bottom Edge 10mm | 0.181 | 0.181 | 0.012 | 0.008 | 0.006 | 0.187 | 0.201 |
| LTE B2 | ANT4 | Front Side 10mm | 0.386 | 0.386 | 0.049 | 0.027 | 0.034 | 0.420 | 0.462 |
| | | Back Side 10mm | 0.408 | 0.408 | 0.056 | 0.051 | 0.047 | 0.455 | 0.515 |
| | | Left Edge 10mm | 0.073 | 0.073 | 0.033 | 0.009 | 0.030 | 0.103 | 0.115 |
| | | Right Edge 10mm | 0.313 | 0.313 | 0.006 | 0.020 | 0.004 | 0.317 | 0.339 |
| | | Top Edge 10mm | 0.750 | 0.750 | 0.087 | 0.102 | 0.102 | 0.852 | 0.939 |
| | | Bottom Edge 10mm | 0.013 | 0.013 | 0.012 | 0.008 | 0.006 | 0.019 | 0.033 |
| LTE B2 | ANT3 | Front Side 10mm | 0.182 | 0.182 | 0.049 | 0.027 | 0.034 | 0.216 | 0.258 |
| | | Back Side 10mm | 0.264 | 0.264 | 0.056 | 0.051 | 0.047 | 0.311 | 0.371 |
| | | Left Edge 10mm | 0.079 | 0.079 | 0.033 | 0.009 | 0.030 | 0.109 | 0.121 |
| | | Right Edge 10mm | 0.042 | 0.042 | 0.006 | 0.020 | 0.004 | 0.046 | 0.068 |
| | | Top Edge 10mm | 0.012 | 0.012 | 0.087 | 0.102 | 0.102 | 0.114 | 0.201 |
| | | Bottom Edge 10mm | 0.548 | 0.548 | 0.012 | 0.008 | 0.006 | 0.554 | 0.568 |
| LTE B4 | ANT4 | Front Side 10mm | 0.124 | 0.084 | 0.049 | 0.027 | 0.034 | 0.158 | 0.160 |
| | | Back Side 10mm | 0.143 | 0.103 | 0.056 | 0.051 | 0.047 | 0.190 | 0.210 |
| | | Left Edge 10mm | 0.025 | 0.021 | 0.033 | 0.009 | 0.030 | 0.055 | 0.063 |
| | | Right Edge 10mm | 0.077 | 0.045 | 0.006 | 0.020 | 0.004 | 0.081 | 0.071 |
| | | Top Edge 10mm | 0.298 | 0.185 | 0.087 | 0.102 | 0.102 | 0.400 | 0.374 |
| | | Bottom Edge 10mm | 0.012 | 0.010 | 0.012 | 0.008 | 0.006 | 0.018 | 0.030 |
| LTE B4 | ANT3 | Front Side 10mm | 0.383 | 0.273 | 0.049 | 0.027 | 0.034 | 0.417 | 0.349 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Back Side 10mm | 0.442 | 0.302 | 0.056 | 0.051 | 0.047 | 0.489 | 0.409 |
| | | Left Edge 10mm | 0.148 | 0.117 | 0.033 | 0.009 | 0.030 | 0.178 | 0.159 |
| | | Right Edge 10mm | 0.099 | 0.076 | 0.006 | 0.020 | 0.004 | 0.103 | 0.102 |
| | | Top Edge 10mm | 0.016 | 0.009 | 0.087 | 0.102 | 0.102 | 0.118 | 0.198 |
| | | Bottom Edge 10mm | 0.866 | 0.558 | 0.012 | 0.008 | 0.006 | 0.872 | 0.578 |
| LTE B5 | ANT1 | Front Side 10mm | 0.093 | 0.093 | 0.049 | 0.027 | 0.034 | 0.127 | 0.169 |
| | | Back Side 10mm | 0.137 | 0.137 | 0.056 | 0.051 | 0.047 | 0.184 | 0.244 |
| | | Left Edge 10mm | 0.031 | 0.031 | 0.033 | 0.009 | 0.030 | 0.061 | 0.073 |
| | | Right Edge 10mm | 0.157 | 0.157 | 0.006 | 0.020 | 0.004 | 0.161 | 0.183 |
| | | Top Edge 10mm | 0.023 | 0.023 | 0.087 | 0.102 | 0.102 | 0.125 | 0.212 |
| | | Bottom Edge 10mm | 0.017 | 0.017 | 0.012 | 0.008 | 0.006 | 0.023 | 0.037 |
| LTE B5 | ANT0 | Front Side 10mm | 0.181 | 0.181 | 0.049 | 0.027 | 0.034 | 0.215 | 0.257 |
| | | Back Side 10mm | 0.232 | 0.232 | 0.056 | 0.051 | 0.047 | 0.279 | 0.339 |
| | | Left Edge 10mm | 0.054 | 0.054 | 0.033 | 0.009 | 0.030 | 0.084 | 0.096 |
| | | Right Edge 10mm | 0.146 | 0.146 | 0.006 | 0.020 | 0.004 | 0.150 | 0.172 |
| | | Top Edge 10mm | 0.026 | 0.026 | 0.087 | 0.102 | 0.102 | 0.128 | 0.215 |
| | | Bottom Edge 10mm | 0.162 | 0.162 | 0.012 | 0.008 | 0.006 | 0.168 | 0.182 |
| LTE B7 | ANT4 | Front Side 10mm | 0.301 | 0.301 | 0.049 | 0.027 | 0.034 | 0.335 | 0.377 |
| | | Back Side 10mm | 0.372 | 0.372 | 0.056 | 0.051 | 0.047 | 0.419 | 0.479 |
| | | Left Edge 10mm | 0.087 | 0.087 | 0.033 | 0.009 | 0.030 | 0.117 | 0.129 |
| | | Right Edge 10mm | 0.188 | 0.188 | 0.006 | 0.020 | 0.004 | 0.192 | 0.214 |
| | | Top Edge 10mm | 0.585 | 0.585 | 0.087 | 0.102 | 0.102 | 0.687 | 0.774 |
| | | Bottom Edge 10mm | 0.032 | 0.032 | 0.012 | 0.008 | 0.006 | 0.038 | 0.052 |
| LTE B7 | ANT3 | Front Side 10mm | 0.131 | 0.131 | 0.049 | 0.027 | 0.034 | 0.165 | 0.207 |
| | | Back Side 10mm | 0.316 | 0.316 | 0.056 | 0.051 | 0.047 | 0.363 | 0.423 |
| | | Left Edge 10mm | 0.086 | 0.086 | 0.033 | 0.009 | 0.030 | 0.116 | 0.128 |
| | | Right Edge 10mm | 0.072 | 0.072 | 0.006 | 0.020 | 0.004 | 0.076 | 0.098 |
| | | Top Edge 10mm | 0.025 | 0.025 | 0.087 | 0.102 | 0.102 | 0.127 | 0.214 |
| | | Bottom Edge 10mm | 0.579 | 0.579 | 0.012 | 0.008 | 0.006 | 0.585 | 0.599 |
| LTE B12 | ANT1 | Front Side 10mm | 0.052 | 0.052 | 0.049 | 0.027 | 0.034 | 0.086 | 0.128 |
| | | Back Side 10mm | 0.075 | 0.075 | 0.056 | 0.051 | 0.047 | 0.122 | 0.182 |
| | | Left Edge 10mm | 0.029 | 0.029 | 0.033 | 0.009 | 0.030 | 0.059 | 0.071 |
| | | Right Edge 10mm | 0.119 | 0.119 | 0.006 | 0.020 | 0.004 | 0.123 | 0.145 |
| | | Top Edge 10mm | 0.014 | 0.014 | 0.087 | 0.102 | 0.102 | 0.116 | 0.203 |
| | | Bottom Edge 10mm | 0.010 | 0.010 | 0.012 | 0.008 | 0.006 | 0.016 | 0.030 |
| LTE B12 | ANT0 | Front Side 10mm | 0.110 | 0.110 | 0.049 | 0.027 | 0.034 | 0.144 | 0.186 |
| | | Back Side 10mm | 0.140 | 0.140 | 0.056 | 0.051 | 0.047 | 0.187 | 0.247 |
| | | Left Edge 10mm | 0.084 | 0.084 | 0.033 | 0.009 | 0.030 | 0.114 | 0.126 |
| | | Right Edge 10mm | 0.196 | 0.196 | 0.006 | 0.020 | 0.004 | 0.200 | 0.222 |
| | | Top Edge 10mm | 0.030 | 0.030 | 0.087 | 0.102 | 0.102 | 0.132 | 0.219 |
| | | Bottom Edge 10mm | 0.117 | 0.117 | 0.012 | 0.008 | 0.006 | 0.123 | 0.137 |
| LTE B13 | ANT1 | Front Side 10mm | 0.039 | 0.041 | 0.049 | 0.027 | 0.034 | 0.073 | 0.117 |
| | | Back Side 10mm | 0.064 | 0.067 | 0.056 | 0.051 | 0.047 | 0.111 | 0.174 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Left Edge 10mm | 0.029 | 0.030 | 0.033 | 0.009 | 0.030 | 0.059 | 0.072 |
| | | Right Edge 10mm | 0.095 | 0.100 | 0.006 | 0.020 | 0.004 | 0.099 | 0.126 |
| | | Top Edge 10mm | 0.051 | 0.054 | 0.087 | 0.102 | 0.102 | 0.153 | 0.243 |
| | | Bottom Edge 10mm | 0.028 | 0.029 | 0.012 | 0.008 | 0.006 | 0.034 | 0.049 |
| LTE B13 | ANT0 | Front Side 10mm | 0.061 | 0.061 | 0.049 | 0.027 | 0.034 | 0.095 | 0.137 |
| | | Back Side 10mm | 0.067 | 0.067 | 0.056 | 0.051 | 0.047 | 0.114 | 0.174 |
| | | Left Edge 10mm | 0.033 | 0.033 | 0.033 | 0.009 | 0.030 | 0.063 | 0.075 |
| | | Right Edge 10mm | 0.071 | 0.071 | 0.006 | 0.020 | 0.004 | 0.075 | 0.097 |
| | | Top Edge 10mm | 0.022 | 0.022 | 0.087 | 0.102 | 0.102 | 0.124 | 0.211 |
| | | Bottom Edge 10mm | 0.067 | 0.067 | 0.012 | 0.008 | 0.006 | 0.073 | 0.087 |
| LTE B17 | ANT1 | Front Side 10mm | 0.049 | 0.049 | 0.049 | 0.027 | 0.034 | 0.083 | 0.125 |
| | | Back Side 10mm | 0.054 | 0.054 | 0.056 | 0.051 | 0.047 | 0.101 | 0.161 |
| | | Left Edge 10mm | 0.092 | 0.092 | 0.033 | 0.009 | 0.030 | 0.122 | 0.134 |
| | | Right Edge 10mm | 0.081 | 0.081 | 0.006 | 0.020 | 0.004 | 0.085 | 0.107 |
| | | Top Edge 10mm | 0.037 | 0.037 | 0.087 | 0.102 | 0.102 | 0.139 | 0.226 |
| | | Bottom Edge 10mm | 0.018 | 0.018 | 0.012 | 0.008 | 0.006 | 0.024 | 0.038 |
| LTE B17 | ANT0 | Front Side 10mm | 0.077 | 0.077 | 0.049 | 0.027 | 0.034 | 0.111 | 0.153 |
| | | Back Side 10mm | 0.104 | 0.104 | 0.056 | 0.051 | 0.047 | 0.151 | 0.211 |
| | | Left Edge 10mm | 0.072 | 0.072 | 0.033 | 0.009 | 0.030 | 0.102 | 0.114 |
| | | Right Edge 10mm | 0.121 | 0.121 | 0.006 | 0.020 | 0.004 | 0.125 | 0.147 |
| | | Top Edge 10mm | 0.015 | 0.015 | 0.087 | 0.102 | 0.102 | 0.117 | 0.204 |
| | | Bottom Edge 10mm | 0.077 | 0.077 | 0.012 | 0.008 | 0.006 | 0.083 | 0.097 |
| LTE B26 | ANT1 | Front Side 10mm | 0.070 | 0.070 | 0.049 | 0.027 | 0.034 | 0.104 | 0.146 |
| | | Back Side 10mm | 0.110 | 0.110 | 0.056 | 0.051 | 0.047 | 0.157 | 0.217 |
| | | Left Edge 10mm | 0.041 | 0.041 | 0.033 | 0.009 | 0.030 | 0.071 | 0.083 |
| | | Right Edge 10mm | 0.085 | 0.085 | 0.006 | 0.020 | 0.004 | 0.089 | 0.111 |
| | | Top Edge 10mm | 0.032 | 0.032 | 0.087 | 0.102 | 0.102 | 0.134 | 0.221 |
| | | Bottom Edge 10mm | 0.019 | 0.019 | 0.012 | 0.008 | 0.006 | 0.025 | 0.039 |
| LTE B26 | ANT0 | Front Side 10mm | 0.142 | 0.142 | 0.049 | 0.027 | 0.034 | 0.176 | 0.218 |
| | | Back Side 10mm | 0.222 | 0.222 | 0.056 | 0.051 | 0.047 | 0.269 | 0.329 |
| | | Left Edge 10mm | 0.042 | 0.042 | 0.033 | 0.009 | 0.030 | 0.072 | 0.084 |
| | | Right Edge 10mm | 0.088 | 0.088 | 0.006 | 0.020 | 0.004 | 0.092 | 0.114 |
| | | Top Edge 10mm | 0.012 | 0.012 | 0.087 | 0.102 | 0.102 | 0.114 | 0.201 |
| | | Bottom Edge 10mm | 0.106 | 0.106 | 0.012 | 0.008 | 0.006 | 0.112 | 0.126 |
| LTE B66 | ANT4 | Front Side 10mm | 0.146 | 0.108 | 0.049 | 0.027 | 0.034 | 0.180 | 0.184 |
| | | Back Side 10mm | 0.145 | 0.111 | 0.056 | 0.051 | 0.047 | 0.192 | 0.218 |
| | | Left Edge 10mm | 0.033 | 0.026 | 0.033 | 0.009 | 0.030 | 0.063 | 0.068 |
| | | Right Edge 10mm | 0.098 | 0.065 | 0.006 | 0.020 | 0.004 | 0.102 | 0.091 |
| | | Top Edge 10mm | 0.354 | 0.236 | 0.087 | 0.102 | 0.102 | 0.456 | 0.425 |
| | | Bottom Edge 10mm | 0.016 | 0.012 | 0.012 | 0.008 | 0.006 | 0.022 | 0.032 |
| LTE B66 | ANT3 | Front Side 10mm | 0.399 | 0.336 | 0.049 | 0.027 | 0.034 | 0.433 | 0.412 |
| | | Back Side 10mm | 0.505 | 0.377 | 0.056 | 0.051 | 0.047 | 0.552 | 0.484 |
| | | Left Edge 10mm | 0.157 | 0.099 | 0.033 | 0.009 | 0.030 | 0.187 | 0.141 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Right Edge 10mm | 0.095 | 0.062 | 0.006 | 0.020 | 0.004 | 0.099 | 0.088 |
| | | Top Edge 10mm | 0.038 | 0.025 | 0.087 | 0.102 | 0.102 | 0.140 | 0.214 |
| | | Bottom Edge 10mm | 0.882 | 0.609 | 0.012 | 0.008 | 0.006 | 0.888 | 0.629 |
| LTE B38 | ANT4 | Front Side 10mm | 0.242 | 0.242 | 0.049 | 0.027 | 0.034 | 0.276 | 0.318 |
| | | Back Side 10mm | 0.323 | 0.323 | 0.056 | 0.051 | 0.047 | 0.370 | 0.430 |
| | | Left Edge 10mm | 0.051 | 0.051 | 0.033 | 0.009 | 0.030 | 0.081 | 0.093 |
| | | Right Edge 10mm | 0.103 | 0.103 | 0.006 | 0.020 | 0.004 | 0.107 | 0.129 |
| | | Top Edge 10mm | 0.675 | 0.675 | 0.087 | 0.102 | 0.102 | 0.777 | 0.864 |
| | | Bottom Edge 10mm | 0.038 | 0.038 | 0.012 | 0.008 | 0.006 | 0.044 | 0.058 |
| LTE B38 | ANT3 | Front Side 10mm | 0.358 | 0.358 | 0.049 | 0.027 | 0.034 | 0.392 | 0.434 |
| | | Back Side 10mm | 0.431 | 0.431 | 0.056 | 0.051 | 0.047 | 0.478 | 0.538 |
| | | Left Edge 10mm | 0.103 | 0.103 | 0.033 | 0.009 | 0.030 | 0.133 | 0.145 |
| | | Right Edge 10mm | 0.091 | 0.091 | 0.006 | 0.020 | 0.004 | 0.095 | 0.117 |
| | | Top Edge 10mm | 0.037 | 0.037 | 0.087 | 0.102 | 0.102 | 0.139 | 0.226 |
| | | Bottom Edge 10mm | 0.685 | 0.685 | 0.012 | 0.008 | 0.006 | 0.691 | 0.705 |
| LTE B41 | ANT4 | Front Side 10mm | 0.188 | 0.134 | 0.049 | 0.027 | 0.034 | 0.222 | 0.210 |
| | | Back Side 10mm | 0.260 | 0.185 | 0.056 | 0.051 | 0.047 | 0.307 | 0.292 |
| | | Left Edge 10mm | 0.078 | 0.072 | 0.033 | 0.009 | 0.030 | 0.108 | 0.114 |
| | | Right Edge 10mm | 0.060 | 0.046 | 0.006 | 0.020 | 0.004 | 0.064 | 0.072 |
| | | Top Edge 10mm | 0.517 | 0.371 | 0.087 | 0.102 | 0.102 | 0.619 | 0.560 |
| | | Bottom Edge 10mm | 0.091 | 0.072 | 0.012 | 0.008 | 0.006 | 0.097 | 0.092 |
| LTE B41 | ANT3 | Front Side 10mm | 0.272 | 0.176 | 0.049 | 0.027 | 0.034 | 0.306 | 0.252 |
| | | Back Side 10mm | 0.311 | 0.217 | 0.056 | 0.051 | 0.047 | 0.358 | 0.324 |
| | | Left Edge 10mm | 0.091 | 0.072 | 0.033 | 0.009 | 0.030 | 0.121 | 0.114 |
| | | Right Edge 10mm | 0.065 | 0.045 | 0.006 | 0.020 | 0.004 | 0.069 | 0.071 |
| | | Top Edge 10mm | 0.031 | 0.020 | 0.087 | 0.102 | 0.102 | 0.133 | 0.209 |
| | | Bottom Edge 10mm | 0.608 | 0.362 | 0.012 | 0.008 | 0.006 | 0.614 | 0.382 |
| N5 | ANT1 | Front Side 10mm | 0.090 | 0.090 | 0.049 | 0.027 | 0.034 | 0.124 | 0.166 |
| | | Back Side 10mm | 0.121 | 0.121 | 0.056 | 0.051 | 0.047 | 0.168 | 0.228 |
| | | Left Edge 10mm | 0.049 | 0.049 | 0.033 | 0.009 | 0.030 | 0.079 | 0.091 |
| | | Right Edge 10mm | 0.143 | 0.143 | 0.006 | 0.020 | 0.004 | 0.147 | 0.169 |
| | | Top Edge 10mm | 0.032 | 0.032 | 0.087 | 0.102 | 0.102 | 0.134 | 0.221 |
| | | Bottom Edge 10mm | 0.024 | 0.024 | 0.012 | 0.008 | 0.006 | 0.030 | 0.044 |
| N5 | ANT0 | Front Side 10mm | 0.110 | 0.110 | 0.049 | 0.027 | 0.034 | 0.144 | 0.186 |
| | | Back Side 10mm | 0.196 | 0.196 | 0.056 | 0.051 | 0.047 | 0.243 | 0.303 |
| | | Left Edge 10mm | 0.005 | 0.005 | 0.033 | 0.009 | 0.030 | 0.035 | 0.047 |
| | | Right Edge 10mm | 0.096 | 0.096 | 0.006 | 0.020 | 0.004 | 0.100 | 0.122 |
| | | Top Edge 10mm | 0.006 | 0.006 | 0.087 | 0.102 | 0.102 | 0.108 | 0.195 |
| | | Bottom Edge 10mm | 0.143 | 0.143 | 0.012 | 0.008 | 0.006 | 0.149 | 0.163 |
| N7 | ANT4 | Front Side 10mm | 0.300 | 0.175 | 0.049 | 0.027 | 0.034 | 0.334 | 0.251 |
| | | Back Side 10mm | 0.350 | 0.204 | 0.056 | 0.051 | 0.047 | 0.397 | 0.311 |
| | | Left Edge 10mm | 0.118 | 0.081 | 0.033 | 0.009 | 0.030 | 0.148 | 0.123 |
| | | Right Edge 10mm | 0.151 | 0.102 | 0.006 | 0.020 | 0.004 | 0.155 | 0.128 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Top Edge 10mm | 0.674 | 0.385 | 0.087 | 0.102 | 0.102 | 0.776 | 0.574 |
| | | Bottom Edge 10mm | 0.022 | 0.012 | 0.012 | 0.008 | 0.006 | 0.028 | 0.032 |
| N7 | ANT3 | Front Side 10mm | 0.097 | 0.059 | 0.049 | 0.027 | 0.034 | 0.131 | 0.135 |
| | | Back Side 10mm | 0.119 | 0.082 | 0.056 | 0.051 | 0.047 | 0.166 | 0.189 |
| | | Left Edge 10mm | 0.022 | 0.016 | 0.033 | 0.009 | 0.030 | 0.052 | 0.058 |
| | | Right Edge 10mm | 0.008 | 0.004 | 0.006 | 0.020 | 0.004 | 0.012 | 0.030 |
| | | Top Edge 10mm | 0.018 | 0.012 | 0.087 | 0.102 | 0.102 | 0.120 | 0.201 |
| | | Bottom Edge 10mm | 0.668 | 0.402 | 0.012 | 0.008 | 0.006 | 0.674 | 0.422 |
| N38 | ANT4 | Front Side 10mm | 0.295 | 0.224 | 0.049 | 0.027 | 0.034 | 0.329 | 0.300 |
| | | Back Side 10mm | 0.362 | 0.250 | 0.056 | 0.051 | 0.047 | 0.409 | 0.357 |
| | | Left Edge 10mm | 0.102 | 0.076 | 0.033 | 0.009 | 0.030 | 0.132 | 0.118 |
| | | Right Edge 10mm | 0.164 | 0.127 | 0.006 | 0.020 | 0.004 | 0.168 | 0.153 |
| | | Top Edge 10mm | 0.789 | 0.587 | 0.087 | 0.102 | 0.102 | 0.891 | 0.776 |
| | | Bottom Edge 10mm | 0.042 | 0.028 | 0.012 | 0.008 | 0.006 | 0.048 | 0.048 |
| N38 | ANT3 | Front Side 10mm | 0.076 | 0.051 | 0.049 | 0.027 | 0.034 | 0.110 | 0.127 |
| | | Back Side 10mm | 0.253 | 0.169 | 0.056 | 0.051 | 0.047 | 0.300 | 0.276 |
| | | Left Edge 10mm | 0.069 | 0.066 | 0.033 | 0.009 | 0.030 | 0.099 | 0.108 |
| | | Right Edge 10mm | 0.025 | 0.015 | 0.006 | 0.020 | 0.004 | 0.029 | 0.041 |
| | | Top Edge 10mm | 0.018 | 0.010 | 0.087 | 0.102 | 0.102 | 0.120 | 0.199 |
| | | Bottom Edge 10mm | 0.556 | 0.400 | 0.012 | 0.008 | 0.006 | 0.562 | 0.420 |
| N41 | ANT4 | Front Side 10mm | 0.254 | 0.199 | 0.049 | 0.027 | 0.034 | 0.288 | 0.275 |
| | | Back Side 10mm | 0.369 | 0.268 | 0.056 | 0.051 | 0.047 | 0.416 | 0.375 |
| | | Left Edge 10mm | 0.074 | 0.061 | 0.033 | 0.009 | 0.030 | 0.104 | 0.103 |
| | | Right Edge 10mm | 0.145 | 0.098 | 0.006 | 0.020 | 0.004 | 0.149 | 0.124 |
| | | Top Edge 10mm | 0.789 | 0.593 | 0.087 | 0.102 | 0.102 | 0.891 | 0.782 |
| | | Bottom Edge 10mm | 0.035 | 0.024 | 0.012 | 0.008 | 0.006 | 0.041 | 0.044 |
| N41 | ANT3 | Front Side 10mm | 0.150 | 0.103 | 0.049 | 0.027 | 0.034 | 0.184 | 0.179 |
| | | Back Side 10mm | 0.397 | 0.286 | 0.056 | 0.051 | 0.047 | 0.444 | 0.393 |
| | | Left Edge 10mm | 0.077 | 0.050 | 0.033 | 0.009 | 0.030 | 0.107 | 0.092 |
| | | Right Edge 10mm | 0.045 | 0.036 | 0.006 | 0.020 | 0.004 | 0.049 | 0.062 |
| | | Top Edge 10mm | 0.065 | 0.051 | 0.087 | 0.102 | 0.102 | 0.167 | 0.240 |
| | | Bottom Edge 10mm | 0.899 | 0.640 | 0.012 | 0.008 | 0.006 | 0.905 | 0.660 |
| N66 | ANT4 | Front Side 10mm | 0.194 | 0.147 | 0.049 | 0.027 | 0.034 | 0.228 | 0.223 |
| | | Back Side 10mm | 0.219 | 0.157 | 0.056 | 0.051 | 0.047 | 0.266 | 0.264 |
| | | Left Edge 10mm | 0.027 | 0.019 | 0.033 | 0.009 | 0.030 | 0.057 | 0.061 |
| | | Right Edge 10mm | 0.152 | 0.105 | 0.006 | 0.020 | 0.004 | 0.156 | 0.131 |
| | | Top Edge 10mm | 0.426 | 0.287 | 0.087 | 0.102 | 0.102 | 0.528 | 0.476 |
| | | Bottom Edge 10mm | 0.028 | 0.022 | 0.012 | 0.008 | 0.006 | 0.034 | 0.042 |
| N66 | ANT3 | Front Side 10mm | 0.488 | 0.488 | 0.049 | 0.027 | 0.034 | 0.522 | 0.564 |
| | | Back Side 10mm | 0.519 | 0.519 | 0.056 | 0.051 | 0.047 | 0.566 | 0.626 |
| | | Left Edge 10mm | 0.191 | 0.191 | 0.033 | 0.009 | 0.030 | 0.221 | 0.233 |
| | | Right Edge 10mm | 0.047 | 0.047 | 0.006 | 0.020 | 0.004 | 0.051 | 0.073 |
| | | Top Edge 10mm | 0.041 | 0.041 | 0.087 | 0.102 | 0.102 | 0.143 | 0.230 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Bottom Edge 10mm | 0.733 | 0.733 | 0.012 | 0.008 | 0.006 | 0.739 | 0.753 |

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 1.132 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

## 13.2.15 Hotspot Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN and Bluetooth

| Band | Antenna | Band | Antenna | Position | Stand alone SAR | | | | | | | | | | SUM SAR | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | | | | |
| | | | | | LTE | NR | ENDC | 2.4G WIFI (Chain 0) | 2.4G WIFI (Chain 1) | 2.4G WIFI (MIMO) | 5G WIFI (Chain 0 MAX) | 5G WIFI (Chain 1 MAX) | 5G WIFI (MIMO MAX) | Blueto oth | Sum SAR (3+4) | Sum SAR (3+6) | Sum SAR (3+5+ 10) | Sum SAR (3+7+ 10) | Sum SAR (3+8+ 10) | Sum SAR (3+9+ 10) |
| | | | | | STAT E3 | STAT E3 | STAT E3 | Level7 | Level7 | Level7 | Level7 | Level7 | Level7 | | | | | | | |
| LTE B7 | ANT4 | N5 | ANT1 | Front Side 10mm | 0.211 | 0.090 | 0.301 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.378 | 0.425 | 0.393 | 0.433 | 0.384 | 0.422 |
| | | | | Back Side 10mm | 0.275 | 0.121 | 0.396 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.471 | 0.531 | 0.509 | 0.586 | 0.553 | 0.559 |
| | | | | Left Edge 10mm | 0.047 | 0.049 | 0.096 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.153 | 0.410 | 0.301 | 0.414 | 0.144 | 0.332 |
| | | | | Right Edge 10mm | 0.064 | 0.143 | 0.207 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.231 | 0.213 | 0.228 | 0.231 | 0.258 | 0.254 |
| | | | | Top Edge 10mm | 0.299 | 0.032 | 0.331 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.506 | 0.521 | 0.438 | 0.542 | 0.615 | 0.649 |
| | | | | Bottom Edge 10mm | 0.026 | 0.024 | 0.050 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.062 | 0.053 | 0.062 | 0.130 | 0.064 | 0.106 |
| LTE B7 | ANT3 | N5 | ANT0 | Front Side 10mm | 0.197 | 0.110 | 0.307 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.384 | 0.431 | 0.399 | 0.439 | 0.390 | 0.428 |
| | | | | Back Side 10mm | 0.145 | 0.196 | 0.341 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.416 | 0.476 | 0.454 | 0.531 | 0.498 | 0.504 |
| | | | | Left Edge 10mm | 0.037 | 0.005 | 0.042 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.099 | 0.356 | 0.247 | 0.360 | 0.090 | 0.278 |
| | | | | Right Edge 10mm | 0.060 | 0.096 | 0.156 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.180 | 0.162 | 0.177 | 0.180 | 0.207 | 0.203 |
| | | | | Top Edge 10mm | 0.017 | 0.005 | 0.022 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.197 | 0.212 | 0.129 | 0.233 | 0.306 | 0.340 |
| | | | | Bottom Edge 10mm | 0.209 | 0.143 | 0.352 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.364 | 0.355 | 0.364 | 0.432 | 0.366 | 0.408 |
| LTE B66 | ANT4 | N5 | ANT1 | Front Side 10mm | 0.036 | 0.090 | 0.126 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.203 | 0.250 | 0.218 | 0.258 | 0.209 | 0.247 |
| | | | | Back Side 10mm | 0.041 | 0.121 | 0.162 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.237 | 0.297 | 0.275 | 0.352 | 0.319 | 0.325 |
| | | | | Left Edge 10mm | 0.009 | 0.049 | 0.058 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.115 | 0.372 | 0.263 | 0.376 | 0.106 | 0.294 |
| | | | | Right Edge 10mm | 0.035 | 0.143 | 0.178 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.202 | 0.184 | 0.199 | 0.202 | 0.229 | 0.225 |
| | | | | Top Edge 10mm | 0.077 | 0.032 | 0.109 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.284 | 0.299 | 0.216 | 0.320 | 0.393 | 0.427 |
| | | | | Bottom Edge 10mm | 0.007 | 0.024 | 0.031 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.043 | 0.034 | 0.043 | 0.111 | 0.045 | 0.087 |
| LTE B66 | ANT3 | N5 | ANT0 | Front Side 10mm | 0.136 | 0.110 | 0.246 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.323 | 0.370 | 0.338 | 0.378 | 0.329 | 0.367 |
| | | | | Back Side 10mm | 0.164 | 0.196 | 0.360 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.435 | 0.495 | 0.473 | 0.550 | 0.517 | 0.523 |
| | | | | Left Edge 10mm | 0.057 | 0.005 | 0.062 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.119 | 0.376 | 0.267 | 0.380 | 0.110 | 0.298 |
| | | | | Right Edge 10mm | 0.025 | 0.096 | 0.121 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.145 | 0.127 | 0.142 | 0.145 | 0.172 | 0.168 |
| | | | | Top Edge 10mm | 0.011 | 0.005 | 0.016 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.191 | 0.206 | 0.123 | 0.227 | 0.300 | 0.334 |
| | | | | Bottom Edge 10mm | 0.246 | 0.143 | 0.389 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.401 | 0.392 | 0.401 | 0.469 | 0.403 | 0.445 |
| LTE B5 | ANT0 | N7 | ANT3 | Front Side 10mm | 0.039 | 0.059 | 0.098 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.175 | 0.222 | 0.190 | 0.230 | 0.181 | 0.219 |
| | | | | Back Side 10mm | 0.066 | 0.082 | 0.148 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.223 | 0.283 | 0.261 | 0.338 | 0.305 | 0.311 |
| | | | | Left Edge 10mm | 0.025 | 0.016 | 0.041 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.098 | 0.355 | 0.246 | 0.359 | 0.089 | 0.277 |
| | | | | Right Edge 10mm | 0.035 | 0.004 | 0.039 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.063 | 0.045 | 0.060 | 0.063 | 0.090 | 0.086 |
| | | | | Top Edge 10mm | 0.017 | 0.012 | 0.029 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.204 | 0.219 | 0.136 | 0.240 | 0.313 | 0.347 |
| | | | | Bottom Edge 10mm | 0.041 | 0.402 | 0.443 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.455 | 0.446 | 0.455 | 0.523 | 0.457 | 0.499 |
| LTE B5 | ANT1 | N7 | ANT4 | Front Side 10mm | 0.093 | 0.085 | 0.178 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.255 | 0.302 | 0.270 | 0.310 | 0.261 | 0.299 |
| | | | | Back Side 10mm | 0.137 | 0.102 | 0.239 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.314 | 0.374 | 0.352 | 0.429 | 0.396 | 0.402 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Left Edge 10mm | 0.031 | 0.035 | 0.066 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.123 | 0.380 | 0.271 | 0.384 | 0.114 | 0.302 |
| | | | | Right Edge 10mm | 0.157 | 0.041 | 0.198 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.222 | 0.204 | 0.219 | 0.222 | 0.249 | 0.245 |
| | | | | Top Edge 10mm | 0.023 | 0.188 | 0.211 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.386 | 0.401 | 0.318 | 0.422 | 0.495 | 0.529 |
| | | | | Bottom Edge 10mm | 0.017 | 0.013 | 0.030 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.042 | 0.033 | 0.042 | 0.110 | 0.044 | 0.086 |
| LTE B66 | ANT4 | N7 | ANT3 | Front Side 10mm | 0.136 | 0.059 | 0.195 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.272 | 0.319 | 0.287 | 0.327 | 0.278 | 0.316 |
| | | | | Back Side 10mm | 0.164 | 0.082 | 0.246 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.321 | 0.381 | 0.359 | 0.436 | 0.403 | 0.409 |
| | | | | Left Edge 10mm | 0.057 | 0.016 | 0.073 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.130 | 0.387 | 0.278 | 0.391 | 0.121 | 0.309 |
| | | | | Right Edge 10mm | 0.025 | 0.004 | 0.029 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.053 | 0.035 | 0.050 | 0.053 | 0.080 | 0.076 |
| | | | | Top Edge 10mm | 0.011 | 0.012 | 0.023 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.198 | 0.213 | 0.130 | 0.234 | 0.307 | 0.341 |
| | | | | Bottom Edge 10mm | 0.246 | 0.402 | 0.648 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.660 | 0.651 | 0.660 | 0.728 | 0.662 | 0.704 |
| LTE B66 | ANT1 | N7 | ANT1 | Front Side 10mm | 0.066 | 0.091 | 0.157 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.234 | 0.281 | 0.249 | 0.289 | 0.240 | 0.278 |
| | | | | Back Side 10mm | 0.105 | 0.135 | 0.240 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.315 | 0.375 | 0.353 | 0.430 | 0.397 | 0.403 |
| | | | | Left Edge 10mm | 0.043 | 0.016 | 0.059 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.116 | 0.373 | 0.264 | 0.377 | 0.107 | 0.295 |
| | | | | Right Edge 10mm | 0.243 | 0.173 | 0.416 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.440 | 0.422 | 0.437 | 0.440 | 0.467 | 0.463 |
| | | | | Top Edge 10mm | 0.043 | 0.028 | 0.071 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.246 | 0.261 | 0.178 | 0.282 | 0.355 | 0.389 |
| | | | | Bottom Edge 10mm | 0.015 | 0.012 | 0.027 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.039 | 0.030 | 0.039 | 0.107 | 0.041 | 0.083 |
| LTE B26 | ANT0 | N41 | ANT3 | Front Side 10mm | 0.090 | 0.055 | 0.145 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.222 | 0.269 | 0.237 | 0.277 | 0.228 | 0.266 |
| | | | | Back Side 10mm | 0.148 | 0.117 | 0.265 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.340 | 0.400 | 0.378 | 0.455 | 0.422 | 0.428 |
| | | | | Left Edge 10mm | 0.029 | 0.020 | 0.049 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.106 | 0.363 | 0.254 | 0.367 | 0.097 | 0.285 |
| | | | | Right Edge 10mm | 0.055 | 0.024 | 0.079 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.103 | 0.085 | 0.100 | 0.103 | 0.130 | 0.126 |
| | | | | Top Edge 10mm | 0.009 | 0.027 | 0.036 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.211 | 0.226 | 0.143 | 0.247 | 0.320 | 0.354 |
| | | | | Bottom Edge 10mm | 0.070 | 0.290 | 0.360 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.372 | 0.363 | 0.372 | 0.440 | 0.374 | 0.416 |
| LTE B26 | ANT1 | N41 | ANT4 | Front Side 10mm | 0.070 | 0.098 | 0.168 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.245 | 0.292 | 0.260 | 0.300 | 0.251 | 0.289 |
| | | | | Back Side 10mm | 0.110 | 0.108 | 0.218 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.293 | 0.353 | 0.331 | 0.408 | 0.375 | 0.381 |
| | | | | Left Edge 10mm | 0.041 | 0.024 | 0.065 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.122 | 0.379 | 0.270 | 0.383 | 0.113 | 0.301 |
| | | | | Right Edge 10mm | 0.085 | 0.038 | 0.123 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.147 | 0.129 | 0.144 | 0.147 | 0.174 | 0.170 |
| | | | | Top Edge 10mm | 0.032 | 0.247 | 0.279 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.454 | 0.469 | 0.386 | 0.490 | 0.563 | 0.597 |
| | | | | Bottom Edge 10mm | 0.019 | 0.013 | 0.032 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.044 | 0.035 | 0.044 | 0.112 | 0.046 | 0.088 |
| LTE B2 | ANT4 | N66 | ANT3 | Front Side 10mm | 0.196 | 0.433 | 0.629 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.706 | 0.753 | 0.721 | 0.761 | 0.712 | 0.750 |
| | | | | Back Side 10mm | 0.206 | 0.463 | 0.669 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.744 | 0.804 | 0.782 | 0.859 | 0.826 | 0.832 |
| | | | | Left Edge 10mm | 0.036 | 0.169 | 0.205 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.262 | 0.519 | 0.410 | 0.523 | 0.253 | 0.441 |
| | | | | Right Edge 10mm | 0.164 | 0.040 | 0.204 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.228 | 0.210 | 0.225 | 0.228 | 0.255 | 0.251 |
| | | | | Top Edge 10mm | 0.411 | 0.036 | 0.447 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.622 | 0.637 | 0.554 | 0.658 | 0.731 | 0.765 |
| | | | | Bottom Edge 10mm | 0.006 | 0.629 | 0.635 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.647 | 0.638 | 0.647 | 0.715 | 0.649 | 0.691 |
| LTE B7 | ANT4 | N66 | ANT3 | Front Side 10mm | 0.167 | 0.433 | 0.600 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.677 | 0.724 | 0.692 | 0.732 | 0.683 | 0.721 |
| | | | | Back Side 10mm | 0.238 | 0.463 | 0.701 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.776 | 0.836 | 0.814 | **0.891** | 0.858 | 0.864 |
| | | | | Left Edge 10mm | 0.046 | 0.169 | 0.215 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.272 | 0.529 | 0.420 | 0.533 | 0.263 | 0.451 |
| | | | | Right Edge 10mm | 0.103 | 0.040 | 0.143 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.167 | 0.149 | 0.164 | 0.167 | 0.194 | 0.190 |
| | | | | Top Edge 10mm | 0.525 | 0.036 | 0.561 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.736 | 0.751 | 0.668 | 0.772 | 0.845 | 0.879 |
| | | | | Bottom Edge 10mm | 0.018 | 0.629 | 0.647 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.659 | 0.650 | 0.659 | 0.727 | 0.661 | 0.703 |
| LTE B7 | ANT1 | N66 | ANT1 | Front Side 10mm | 0.067 | 0.157 | 0.224 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.301 | 0.348 | 0.316 | 0.356 | 0.307 | 0.345 |
| | | | | Back Side 10mm | 0.095 | 0.215 | 0.310 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.385 | 0.445 | 0.423 | 0.500 | 0.467 | 0.473 |
| | | | | Left Edge 10mm | 0.011 | 0.012 | 0.023 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.080 | 0.337 | 0.228 | 0.341 | 0.071 | 0.259 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Right Edge 10mm | 0.161 | 0.458 | 0.619 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.643 | 0.625 | 0.640 | 0.643 | 0.670 | 0.666 |
| | | | | Top Edge 10mm | 0.022 | 0.021 | 0.043 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.218 | 0.233 | 0.150 | 0.254 | 0.327 | 0.361 |
| | | | | Bottom Edge 10mm | 0.013 | 0.005 | 0.018 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.030 | 0.021 | 0.030 | 0.098 | 0.032 | 0.074 |
| LTE B5 | ANT0 | N66 | ANT3 | Front Side 10mm | 0.039 | 0.433 | 0.472 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.549 | 0.596 | 0.564 | 0.604 | 0.555 | 0.593 |
| | | | | Back Side 10mm | 0.066 | 0.463 | 0.529 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.604 | 0.664 | 0.642 | 0.719 | 0.686 | 0.692 |
| | | | | Left Edge 10mm | 0.025 | 0.169 | 0.194 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.251 | 0.508 | 0.399 | 0.512 | 0.242 | 0.430 |
| | | | | Right Edge 10mm | 0.035 | 0.040 | 0.075 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.099 | 0.081 | 0.096 | 0.099 | 0.126 | 0.122 |
| | | | | Top Edge 10mm | 0.017 | 0.036 | 0.053 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.228 | 0.243 | 0.160 | 0.264 | 0.337 | 0.371 |
| | | | | Bottom Edge 10mm | 0.041 | 0.629 | 0.670 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.682 | 0.673 | 0.682 | 0.750 | 0.684 | 0.726 |
| LTE B5 | ANT1 | N66 | ANT4 | Front Side 10mm | 0.093 | 0.050 | 0.143 | 0.077 | 0.058 | 0.124 | 0.098 | 0.049 | 0.087 | 0.034 | 0.220 | 0.267 | 0.235 | 0.275 | 0.226 | 0.264 |
| | | | | Back Side 10mm | 0.137 | 0.083 | 0.220 | 0.075 | 0.066 | 0.135 | 0.143 | 0.110 | 0.116 | 0.047 | 0.295 | 0.355 | 0.333 | 0.410 | 0.377 | 0.383 |
| | | | | Left Edge 10mm | 0.031 | 0.007 | 0.038 | 0.057 | 0.175 | 0.314 | 0.288 | 0.018 | 0.206 | 0.030 | 0.095 | 0.352 | 0.243 | 0.356 | 0.086 | 0.274 |
| | | | | Right Edge 10mm | 0.157 | 0.054 | 0.211 | 0.024 | 0.017 | 0.006 | 0.020 | 0.047 | 0.043 | 0.004 | 0.235 | 0.217 | 0.232 | 0.235 | 0.262 | 0.258 |
| | | | | Top Edge 10mm | 0.023 | 0.124 | 0.147 | 0.175 | 0.005 | 0.190 | 0.109 | 0.182 | 0.216 | 0.102 | 0.322 | 0.337 | 0.254 | 0.358 | 0.431 | 0.465 |
| | | | | Bottom Edge 10mm | 0.017 | 0.007 | 0.024 | 0.012 | 0.006 | 0.003 | 0.074 | 0.008 | 0.050 | 0.006 | 0.036 | 0.027 | 0.036 | 0.104 | 0.038 | 0.080 |

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 0.891 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

## 13.2.16 Hotspot Simultaneous Transmission SAR Evaluation for WWAN Antenna with WLAN and Bluetooth

| Band | Antenna | Band | Antenna | Position | Stand alone SAR | | | | | Sum SAR (3+4+8) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1 | 2 | 3 | 4 | 5 | |
| | | | | | LTE | NR | ENDC | 2.4G WIFI (Chain0) | 5G WIFI (Chain1 MAX) | |
| | | | | | STATE5 | STATE5 | STATE5 | LEVEL8 | LEVEL8 | |
| LTE B7 | ANT4 | N5 | ANT1 | Front Side 10mm | 0.211 | 0.090 | 0.301 | 0.049 | 0.027 | 0.377 |
| | | | | Back Side 10mm | 0.275 | 0.121 | 0.396 | 0.056 | 0.051 | 0.503 |
| | | | | Left Edge 10mm | 0.047 | 0.049 | 0.096 | 0.033 | 0.009 | 0.138 |
| | | | | Right Edge 10mm | 0.064 | 0.143 | 0.207 | 0.006 | 0.020 | 0.233 |
| | | | | Top Edge 10mm | 0.299 | 0.032 | 0.331 | 0.087 | 0.102 | 0.520 |
| | | | | Bottom Edge 10mm | 0.026 | 0.024 | 0.050 | 0.012 | 0.008 | 0.070 |
| LTE B7 | ANT3 | N5 | ANT0 | Front Side 10mm | 0.197 | 0.064 | 0.261 | 0.049 | 0.027 | 0.337 |
| | | | | Back Side 10mm | 0.145 | 0.131 | 0.276 | 0.056 | 0.051 | 0.383 |
| | | | | Left Edge 10mm | 0.037 | 0.004 | 0.041 | 0.033 | 0.009 | 0.083 |
| | | | | Right Edge 10mm | 0.060 | 0.055 | 0.115 | 0.006 | 0.020 | 0.141 |
| | | | | Top Edge 10mm | 0.017 | 0.004 | 0.021 | 0.087 | 0.102 | 0.210 |
| | | | | Bottom Edge 10mm | 0.209 | 0.094 | 0.303 | 0.012 | 0.008 | 0.323 |
| LTE B66 | ANT4 | N5 | ANT1 | Front Side 10mm | 0.036 | 0.090 | 0.126 | 0.049 | 0.027 | 0.202 |
| | | | | Back Side 10mm | 0.041 | 0.121 | 0.162 | 0.056 | 0.051 | 0.269 |
| | | | | Left Edge 10mm | 0.009 | 0.049 | 0.058 | 0.033 | 0.009 | 0.100 |
| | | | | Right Edge 10mm | 0.035 | 0.143 | 0.178 | 0.006 | 0.020 | 0.204 |
| | | | | Top Edge 10mm | 0.077 | 0.032 | 0.109 | 0.087 | 0.102 | 0.298 |
| | | | | Bottom Edge 10mm | 0.007 | 0.024 | 0.031 | 0.012 | 0.008 | 0.051 |
| LTE B66 | ANT3 | N5 | ANT0 | Front Side 10mm | 0.136 | 0.064 | 0.200 | 0.049 | 0.027 | 0.276 |
| | | | | Back Side 10mm | 0.164 | 0.131 | 0.295 | 0.056 | 0.051 | 0.402 |
| | | | | Left Edge 10mm | 0.057 | 0.004 | 0.061 | 0.033 | 0.009 | 0.103 |
| | | | | Right Edge 10mm | 0.025 | 0.055 | 0.080 | 0.006 | 0.020 | 0.106 |
| | | | | Top Edge 10mm | 0.011 | 0.004 | 0.015 | 0.087 | 0.102 | 0.204 |
| | | | | Bottom Edge 10mm | 0.246 | 0.094 | 0.340 | 0.012 | 0.008 | 0.360 |
| LTE B5 | ANT0 | N7 | ANT3 | Front Side 10mm | 0.039 | 0.031 | 0.070 | 0.049 | 0.027 | 0.146 |
| | | | | Back Side 10mm | 0.066 | 0.040 | 0.106 | 0.056 | 0.051 | 0.213 |
| | | | | Left Edge 10mm | 0.025 | 0.007 | 0.032 | 0.033 | 0.009 | 0.074 |
| | | | | Right Edge 10mm | 0.035 | 0.002 | 0.037 | 0.006 | 0.020 | 0.063 |
| | | | | Top Edge 10mm | 0.017 | 0.007 | 0.024 | 0.087 | 0.102 | 0.213 |
| | | | | Bottom Edge 10mm | 0.041 | 0.196 | 0.237 | 0.012 | 0.008 | 0.257 |
| LTE B5 | ANT1 | N7 | ANT4 | Front Side 10mm | 0.093 | 0.085 | 0.178 | 0.049 | 0.027 | 0.254 |
| | | | | Back Side 10mm | 0.137 | 0.102 | 0.239 | 0.056 | 0.051 | 0.346 |
| | | | | Left Edge 10mm | 0.031 | 0.035 | 0.066 | 0.033 | 0.009 | 0.108 |
| | | | | Right Edge 10mm | 0.157 | 0.041 | 0.198 | 0.006 | 0.020 | 0.224 |
| | | | | Top Edge 10mm | 0.023 | 0.188 | 0.211 | 0.087 | 0.102 | 0.400 |
| | | | | Bottom Edge 10mm | 0.017 | 0.013 | 0.030 | 0.012 | 0.008 | 0.050 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LTE B66 | ANT4 | N7 | ANT3 | Front Side 10mm | 0.136 | 0.031 | 0.167 | 0.049 | 0.027 | 0.243 |
| | | | | Back Side 10mm | 0.164 | 0.040 | 0.204 | 0.056 | 0.051 | 0.311 |
| | | | | Left Edge 10mm | 0.057 | 0.007 | 0.064 | 0.033 | 0.009 | 0.106 |
| | | | | Right Edge 10mm | 0.025 | 0.002 | 0.027 | 0.006 | 0.020 | 0.053 |
| | | | | Top Edge 10mm | 0.011 | 0.007 | 0.018 | 0.087 | 0.102 | 0.207 |
| | | | | Bottom Edge 10mm | 0.246 | 0.196 | 0.442 | 0.012 | 0.008 | 0.462 |
| LTE B66 | ANT1 | N7 | ANT1 | Front Side 10mm | 0.066 | 0.085 | 0.151 | 0.049 | 0.027 | 0.227 |
| | | | | Back Side 10mm | 0.105 | 0.102 | 0.207 | 0.056 | 0.051 | 0.314 |
| | | | | Left Edge 10mm | 0.043 | 0.035 | 0.078 | 0.033 | 0.009 | 0.120 |
| | | | | Right Edge 10mm | 0.243 | 0.041 | 0.284 | 0.006 | 0.020 | 0.310 |
| | | | | Top Edge 10mm | 0.043 | 0.188 | 0.231 | 0.087 | 0.102 | 0.420 |
| | | | | Bottom Edge 10mm | 0.015 | 0.013 | 0.028 | 0.012 | 0.008 | 0.048 |
| LTE B26 | ANT0 | N41 | ANT3 | Front Side 10mm | 0.090 | 0.055 | 0.145 | 0.049 | 0.027 | 0.221 |
| | | | | Back Side 10mm | 0.148 | 0.117 | 0.265 | 0.056 | 0.051 | 0.372 |
| | | | | Left Edge 10mm | 0.029 | 0.020 | 0.049 | 0.033 | 0.009 | 0.091 |
| | | | | Right Edge 10mm | 0.055 | 0.024 | 0.079 | 0.006 | 0.020 | 0.105 |
| | | | | Top Edge 10mm | 0.009 | 0.027 | 0.036 | 0.087 | 0.102 | 0.225 |
| | | | | Bottom Edge 10mm | 0.070 | 0.290 | 0.360 | 0.012 | 0.008 | 0.380 |
| LTE B26 | ANT1 | N41 | ANT4 | Front Side 10mm | 0.070 | 0.098 | 0.168 | 0.049 | 0.027 | 0.244 |
| | | | | Back Side 10mm | 0.110 | 0.108 | 0.218 | 0.056 | 0.051 | 0.325 |
| | | | | Left Edge 10mm | 0.041 | 0.024 | 0.065 | 0.033 | 0.009 | 0.107 |
| | | | | Right Edge 10mm | 0.085 | 0.038 | 0.123 | 0.006 | 0.020 | 0.149 |
| | | | | Top Edge 10mm | 0.032 | 0.247 | 0.279 | 0.087 | 0.102 | 0.468 |
| | | | | Bottom Edge 10mm | 0.019 | 0.013 | 0.032 | 0.012 | 0.008 | 0.052 |
| LTE B2 | ANT4 | N66 | ANT3 | Front Side 10mm | 0.196 | 0.198 | 0.394 | 0.049 | 0.027 | 0.470 |
| | | | | Back Side 10mm | 0.206 | 0.208 | 0.414 | 0.056 | 0.051 | 0.521 |
| | | | | Left Edge 10mm | 0.036 | 0.076 | 0.112 | 0.033 | 0.009 | 0.154 |
| | | | | Right Edge 10mm | 0.164 | 0.018 | 0.182 | 0.006 | 0.020 | 0.208 |
| | | | | Top Edge 10mm | 0.411 | 0.000 | 0.411 | 0.087 | 0.102 | 0.600 |
| | | | | Bottom Edge 10mm | 0.006 | 0.394 | 0.400 | 0.012 | 0.008 | 0.420 |
| LTE B7 | ANT4 | N66 | ANT3 | Front Side 10mm | 0.167 | 0.198 | 0.365 | 0.049 | 0.027 | 0.441 |
| | | | | Back Side 10mm | 0.238 | 0.208 | 0.446 | 0.056 | 0.051 | 0.553 |
| | | | | Left Edge 10mm | 0.046 | 0.076 | 0.122 | 0.033 | 0.009 | 0.164 |
| | | | | Right Edge 10mm | 0.103 | 0.018 | 0.121 | 0.006 | 0.020 | 0.147 |
| | | | | Top Edge 10mm | 0.525 | 0.000 | 0.525 | 0.087 | 0.102 | **0.714** |
| | | | | Bottom Edge 10mm | 0.018 | 0.394 | 0.412 | 0.012 | 0.008 | 0.432 |
| LTE B7 | ANT1 | N66 | ANT1 | Front Side 10mm | 0.067 | 0.088 | 0.155 | 0.049 | 0.027 | 0.231 |
| | | | | Back Side 10mm | 0.095 | 0.116 | 0.211 | 0.056 | 0.051 | 0.318 |
| | | | | Left Edge 10mm | 0.011 | 0.004 | 0.015 | 0.033 | 0.009 | 0.057 |
| | | | | Right Edge 10mm | 0.161 | 0.254 | 0.415 | 0.006 | 0.020 | 0.441 |
| | | | | Top Edge 10mm | 0.022 | 0.014 | 0.036 | 0.087 | 0.102 | 0.225 |
| | | | | Bottom Edge 10mm | 0.013 | 0.003 | 0.016 | 0.012 | 0.008 | 0.036 |
| LTE B5 | ANT0 | N66 | ANT3 | Front Side 10mm | 0.039 | 0.198 | 0.237 | 0.049 | 0.027 | 0.313 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Back Side 10mm | 0.066 | 0.208 | 0.274 | 0.056 | 0.051 | 0.381 |
| | | | | Left Edge 10mm | 0.025 | 0.076 | 0.101 | 0.033 | 0.009 | 0.143 |
| | | | | Right Edge 10mm | 0.035 | 0.018 | 0.053 | 0.006 | 0.020 | 0.079 |
| | | | | Top Edge 10mm | 0.017 | 0.000 | 0.017 | 0.087 | 0.102 | 0.206 |
| | | | | Bottom Edge 10mm | 0.041 | 0.394 | 0.435 | 0.012 | 0.008 | 0.455 |
| LTE B5 | ANT1 | N66 | ANT4 | Front Side 10mm | 0.093 | 0.050 | 0.143 | 0.049 | 0.027 | 0.219 |
| | | | | Back Side 10mm | 0.137 | 0.083 | 0.220 | 0.056 | 0.051 | 0.327 |
| | | | | Left Edge 10mm | 0.031 | 0.007 | 0.038 | 0.033 | 0.009 | 0.080 |
| | | | | Right Edge 10mm | 0.157 | 0.054 | 0.211 | 0.006 | 0.020 | 0.237 |
| | | | | Top Edge 10mm | 0.023 | 0.124 | 0.147 | 0.087 | 0.102 | 0.336 |
| | | | | Bottom Edge 10mm | 0.017 | 0.007 | 0.024 | 0.012 | 0.008 | 0.044 |

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 0.714 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

## 13.2.17 Hotspot Simultaneous Transmission SAR Evaluation for WLAN and Bluetooth

| Position | Stand alone SAR | | | | | | | Sum SAR | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | | | |
| | 2.4G WIFI (Chain0) | 2.4G WIFI (Chain1) | 2.4G WIFI (MIMO) | 5G WIFI (Chain0 MAX) | 5G WIFI (Chain1 MAX) | 5G WIFI (MIMO MAX) | Bluetooth | Sum SAR (1+7) | Sum SAR (4+7) | Sum SAR (5+7) | Sum SAR (6+7) | Sum SAR (1+5) |
| | Level6 | Level6 | Level6 | Level6 | Level6 | Level6 | | | | | | |
| Front Side 10mm | 0.158 | 0.116 | 0.168 | 0.098 | 0.062 | 0.106 | 0.034 | 0.192 | 0.132 | 0.096 | 0.140 | 0.220 |
| Back Side 10mm | 0.183 | 0.120 | 0.185 | 0.143 | 0.125 | 0.203 | 0.047 | 0.230 | 0.190 | 0.172 | 0.250 | 0.308 |
| Left Edge 10mm | 0.108 | 0.344 | 0.449 | 0.288 | 0.041 | 0.231 | 0.030 | 0.138 | 0.318 | 0.071 | 0.261 | 0.149 |
| Right Edge 10mm | 0.013 | 0.026 | 0.012 | 0.024 | 0.013 | 0.059 | 0.004 | 0.017 | 0.028 | 0.017 | 0.063 | 0.026 |
| Top Edge 10mm | 0.328 | 0.014 | 0.293 | 0.109 | 0.218 | 0.361 | 0.102 | 0.430 | 0.211 | 0.320 | 0.463 | **0.546** |
| Bottom Edge 10mm | 0.008 | 0.017 | 0.005 | 0.074 | 0.027 | 0.056 | 0.006 | 0.014 | 0.080 | 0.033 | 0.062 | 0.035 |

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 1g SAR is 0.546 W/Kg < 1.6 W/kg, so Simultaneous Transmission SAR test is not required.

## 13.2.18 Specific Simultaneous Transmission SAR Evaluation for WLAN and Bluetooth

| Band | Antenna | Position | Stand alone SAR | | | | Sum SAR | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 | | | |
| | | | WWAN | 5G WIFI (Chain0 MAX) | 5G WIFI (Chain1 MAX) | 5G WIFI (MIMO MAX) | Sum SAR (1+2) | Sum SAR (1+3) | Sum SAR (1+4) |
| | | | STATE3 | LEVEL7 | LEVEL7 | LEVEL7 | | | |
| WCDMA B2 | Ant.4 | Top Edge 0mm | 2.372 | 0.044 | 0.501 | 0.571 | 2.416 | 2.873 | **2.943** |
| WCDMA B4 | Ant.3 | Bottom Edge 0mm | 1.951 | 0.032 | 0.009 | 0.031 | 1.983 | 1.960 | 1.982 |
| LTE B4 | Ant.3 | Bottom Edge 0mm | 1.760 | 0.032 | 0.009 | 0.031 | 1.792 | 1.769 | 1.791 |
| LTE B7 | Ant.4 | Top Edge 0mm | 1.652 | 0.044 | 0.501 | 0.571 | 1.696 | 2.153 | 2.223 |
| LTE B7 | Ant.3 | Bottom Edge 0mm | 2.052 | 0.032 | 0.009 | 0.031 | 2.084 | 2.061 | 2.083 |
| LTE B66 | Ant.3 | Bottom Edge 0mm | 1.199 | 0.032 | 0.009 | 0.031 | 1.231 | 1.208 | 1.230 |
| LTE B41 | Ant.3 | Bottom Edge 0mm | 1.512 | 0.032 | 0.009 | 0.031 | 1.544 | 1.521 | 1.543 |
| N7 | Ant.4 | Top Edge 0mm | 1.909 | 0.044 | 0.501 | 0.571 | 1.953 | 2.410 | 2.480 |
| N7 | Ant.3 | Bottom Edge 0mm | 0.993 | 0.032 | 0.009 | 0.031 | 1.025 | 1.002 | 1.024 |
| N38 | Ant.4 | Top Edge 0mm | 1.571 | 0.044 | 0.501 | 0.571 | 1.615 | 2.072 | 2.142 |
| N38 | Ant.3 | Bottom Edge 0mm | 1.373 | 0.032 | 0.009 | 0.031 | 1.405 | 1.382 | 1.404 |
| N41 | Ant.4 | Top Edge 0mm | 1.822 | 0.044 | 0.501 | 0.571 | 1.866 | 2.323 | 2.393 |
| N41 | Ant.3 | Bottom Edge 0mm | 1.251 | 0.032 | 0.009 | 0.031 | 1.283 | 1.260 | 1.282 |
| N66 | Ant.3 | Bottom Edge 0mm | 1.751 | 0.032 | 0.009 | 0.031 | 1.783 | 1.760 | 1.782 |

Note:

1: The simultaneous transmission combinations of the three antennas contain combinations of two antennas, so only the worst simultaneous transmission combinations was shown in this table.

2: The highest Summed 10g SAR is 2.943 W/Kg < 4.0 W/kg, so Simultaneous Transmission SAR test is not required.

# 14 TEST EQUIPMENTS LIST

| Description | Manufacturer | Model | Serial No./Version | Cal. Date | Cal. Due |
|---|---|---|---|---|---|
| PC | Dell | N/A | N/A | N/A | N/A |
| Test Software | Speag | DASY6 | 16.0.0.116 | N/A | N/A |
| 750MHz Validation Dipole | Speag | D750V3 | SN: 1201 | 2020/11/11 | 2023/11/10 |
| 835MHz Validation Dipole | Speag | D835V2 | SN: 4d187 | 2021/05/17 | 2024/05/16 |
| 1750MHz Validation Dipole | Speag | D1750V2 | SN: 1130 | 2021/05/17 | 2024/05/16 |
| 1900MHz Validation Dipole | Speag | D1900V2 | SN: 5d193 | 2021/05/20 | 2024/05/19 |
| 2450MHz Validation Dipole | Speag | D2450V2 | SN: 952 | 2021/05/19 | 2024/05/18 |
| 2600MHz Validation Dipole | Speag | D2600V2 | SN: 1095 | 2021/05/19 | 2024/05/18 |
| 5GHz Validation Dipole | Speag | D5GHzV2 | SN: 1200 | 2021/05/18 | 2024/05/17 |
| E-Field Probe | Speag | EX3DV4 | SN: 7607 | 2022/07/04 | 2023/07/03 |
| Data Acquisition Electronicsr | Speag | DAE4 | SN: 878 | 2022/06/13 | 2023/06/12 |
| Signal Generator | R&S | SMB100A | 177746 | 2022/05/19 | 2023/05/18 |
| Power Meter | R&S | NRVD-B2 | 7250BJ-0112/2011 | 2022/09/06 | 2023/09/05 |
| Power Sensor | R&S | NRV-Z4 | 100381 | 2022/09/06 | 2023/09/05 |
| Power Sensor | R&S | NRV-Z2 | 100211 | 2022/09/06 | 2023/09/05 |
| Wireless Communication Test Set | Anritsu | MT8820C | 6201524635 | 2022/12/27 | 2023/12/26 |
| Network Analyzer | Agilent | E5071C | MY46103472 | 2022/12/06 | 2023/12/05 |
| Thermometer | Elitech | RC-4HC | EF7216002985 | 2022/11/18 | 2023/11/17 |
| Thermometer | Elitech | RC-4HC | EF720B004813 | 2022/11/18 | 2023/11/17 |
| Power Amplifier | SATIMO | 6552B | 22374 | N/A | N/A |
| Dielectric Probe Kit | Speag | DAK3.5 | SN: 1312 | N/A | N/A |
| Phantom | Speag | SAM | SN: 1859 | N/A | N/A |
| Attenuator | COM-MW | ZA-S1-31 | 1305003187 | N/A | N/A |
| Directional coupler | AA-MCS | AAMCS-UDC | 000272 | N/A | N/A |

Note: For dipole antennas, BALUN has adopted 3 years as calibration intervals, and on annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss in within 20% of calibrated measurement.
4. Impedance (real or imaginary parts) in within 5 Ohms of calibrated measurement.

# ANNEX A SIMULATING LIQUID VERIFICATION RESULT

The dielectric parameters of the liquids were verified prior to the SAR evaluation using a DAK3.5 Dielectric Probe Kit.

Head Liquid

| Date | Liquid Type | Fre. (MHz) | Temp. (℃) | Meas. Conductivity (σ) (S/m) | Meas. Permittivity (ε) | Target Conductivity (σ) (S/m) | Target Permittivity (ε) | Conductivity Tolerance | Permittivity Tolerance |
|---|---|---|---|---|---|---|---|---|---|
| 2023.03.02 | Head | 750 | 21.1 | 0.89 | 41.24 | 0.89 | 41.94 | 0.00% | -1.67% |
| 2023.03.03 | Head | 750 | 21.3 | 0.90 | 43.06 | 0.89 | 41.94 | 1.12% | 2.67% |
| 2023.03.04 | Head | 835 | 21.2 | 0.91 | 40.99 | 0.90 | 41.50 | 1.11% | -1.23% |
| 2023.03.05 | Head | 835 | 20.9 | 0.88 | 41.31 | 0.90 | 41.50 | -2.22% | -0.46% |
| 2023.03.06 | Head | 835 | 21 | 0.88 | 41.51 | 0.90 | 41.50 | -2.22% | 0.02% |
| 2023.03.07 | Head | 1750 | 21.1 | 1.40 | 41.21 | 1.37 | 40.08 | 2.19% | 2.82% |
| 2023.03.08 | Head | 1750 | 20.8 | 1.39 | 38.92 | 1.37 | 40.08 | 1.46% | -2.89% |
| 2023.03.09 | Head | 1750 | 21.4 | 1.33 | 39.75 | 1.37 | 40.08 | -2.92% | -0.82% |
| 2023.03.10 | Head | 1750 | 21.1 | 1.37 | 40.85 | 1.37 | 40.08 | 0.00% | 1.92% |
| 2023.03.11 | Head | 1750 | 21.4 | 1.36 | 40.69 | 1.37 | 40.08 | -0.73% | 1.52% |
| 2023.03.12 | Head | 1750 | 21 | 1.37 | 39.11 | 1.37 | 40.08 | 0.00% | -2.42% |
| 2023.03.13 | Head | 1900 | 21.2 | 1.44 | 40.13 | 1.40 | 40.00 | 2.86% | 0.33% |
| 2023.04.07 | Head | 1900 | 20.9 | 1.39 | 40.26 | 1.40 | 40.00 | -0.71% | 0.65% |
| 2023.04.08 | Head | 1900 | 21 | 1.38 | 39.33 | 1.40 | 40.00 | -1.43% | -1.68% |
| 2023.04.11 | Head | 1900 | 21.3 | 1.38 | 39.84 | 1.40 | 40.00 | -1.43% | -0.40% |
| 2023.04.09 | Head | 2600 | 21.1 | 1.96 | 37.91 | 1.96 | 39.01 | 0.00% | -2.82% |
| 2023.04.12 | Head | 2600 | 21.1 | 1.91 | 39.27 | 1.96 | 39.01 | -2.55% | 0.67% |
| 2023.03.19 | Head | 2600 | 21.3 | 1.96 | 39.12 | 1.96 | 39.01 | 0.00% | 0.28% |
| 2023.03.20 | Head | 2600 | 21.1 | 2.01 | 38.64 | 1.96 | 39.01 | 2.55% | -0.95% |
| 2023.03.21 | Head | 2600 | 21.2 | 1.97 | 38.28 | 1.96 | 39.01 | 0.51% | -1.87% |
| 2023.03.22 | Head | 2600 | 20.9 | 1.91 | 39.03 | 1.96 | 39.01 | -2.55% | 0.05% |
| 2023.03.23 | Head | 2600 | 21.4 | 1.99 | 37.72 | 1.96 | 39.01 | 1.53% | -3.31% |
| 2023.03.24 | Head | 2600 | 21.1 | 1.97 | 39.08 | 1.96 | 39.01 | 0.51% | 0.18% |
| 2023.03.25 | Head | 2600 | 21 | 1.99 | 37.84 | 1.96 | 39.01 | 1.53% | -3.00% |
| 2023.03.26 | Head | 2600 | 21.2 | 1.96 | 39.58 | 1.96 | 39.01 | 0.00% | 1.46% |
| 2023.03.27 | Head | 2600 | 20.9 | 1.99 | 39.15 | 1.96 | 39.01 | 1.53% | 0.36% |
| 2023.03.28 | Head | 2600 | 20.9 | 1.97 | 40.28 | 1.96 | 39.01 | 0.51% | 3.26% |
| 2023.03.29 | Head | 5250 | 21.4 | 4.70 | 35.79 | 4.71 | 35.93 | -0.21% | -0.39% |
| 2023.03.30 | Head | 5250 | 21.3 | 4.73 | 36.12 | 4.71 | 35.93 | 0.42% | 0.53% |
| 2023.03.30 | Head | 5600 | 21.1 | 5.06 | 35.33 | 5.07 | 35.53 | -0.20% | -0.56% |
| 2023.03.31 | Head | 5750 | 21.7 | 5.17 | 35.61 | 5.22 | 35.36 | -0.96% | 0.71% |
| 2023.04.01 | Head | 5750 | 21.2 | 5.24 | 35.24 | 5.22 | 35.36 | 0.38% | -0.34% |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 2023.04.10 | Head | 2600 | 21.2 | 2.01 | 38.60 | 1.96 | 39.01 | 2.55% | -1.05% |
| 2023.04.13 | Head | 2450 | 21.2 | 1.78 | 39.32 | 1.80 | 39.20 | -1.11% | 0.31% |
| 2023.04.14 | Head | 2600 | 21.4 | 1.96 | 38.62 | 1.96 | 39.01 | 0.00% | -1.00% |
| 2023.04.15 | Head | 2600 | 21.3 | 2.02 | 37.95 | 1.96 | 39.01 | 3.06% | -2.72% |
| 2023.04.16 | Head | 1750 | 21.1 | 1.38 | 39.46 | 1.37 | 40.08 | 0.73% | -1.55% |
| 2023.05.09 | Head | 1750 | 21.3 | 1.37 | 39.11 | 1.37 | 40.08 | 0.00% | -2.42% |
| 2023.05.09 | Head | 1900 | 21.3 | 1.44 | 39.40 | 1.40 | 40.00 | 2.86% | -1.50% |
| 2023.05.09 | Head | 2450 | 21.3 | 1.85 | 37.97 | 1.80 | 39.20 | 2.78% | -3.14% |
| Note: The tolerance limit of Conductivity and Permittivity is± 5%. | | | | | | | | | |

# ANNEX B SYSTEM CHECK RESULT

Comparing to the original SAR value provided by SPEAG, the validation data should be within itsspecification of 10 %.

Head Liquid 1g

| Date | Liquid Type | Freq. (MHz) | Power (mW) | Measured SAR (W/kg) | Normalized SAR (W/kg) | Dipole SAR (W/kg) | Tolerance |
|---|---|---|---|---|---|---|---|
| 2023.03.02 | Head | 750 | 100 | 0.87 | 8.65 | 8.29 | 4.34% |
| 2023.03.03 | Head | 750 | 100 | 0.84 | 8.41 | 8.29 | 1.45% |
| 2023.03.04 | Head | 835 | 100 | 0.95 | 9.45 | 9.76 | -3.18% |
| 2023.03.05 | Head | 835 | 100 | 0.95 | 9.53 | 9.76 | -2.36% |
| 2023.03.06 | Head | 835 | 100 | 0.97 | 9.67 | 9.76 | -0.92% |
| 2023.03.07 | Head | 1750 | 100 | 3.77 | 37.70 | 36.7 | 2.72% |
| 2023.03.08 | Head | 1750 | 100 | 3.50 | 35.00 | 36.7 | -4.63% |
| 2023.03.09 | Head | 1750 | 100 | 3.53 | 35.30 | 36.7 | -3.81% |
| 2023.03.10 | Head | 1750 | 100 | 3.68 | 36.80 | 36.7 | 0.27% |
| 2023.03.11 | Head | 1750 | 100 | 3.82 | 38.20 | 36.7 | 4.09% |
| 2023.03.12 | Head | 1750 | 100 | 3.71 | 37.10 | 36.7 | 1.09% |
| 2023.03.13 | Head | 1900 | 100 | 3.98 | 39.80 | 40.3 | -1.24% |
| 2023.04.07 | Head | 1900 | 100 | 4.07 | 40.70 | 40.3 | 0.99% |
| 2023.04.08 | Head | 1900 | 100 | 4.13 | 41.30 | 40.3 | 2.48% |
| 2023.04.11 | Head | 1900 | 100 | 3.88 | 38.80 | 40.3 | -3.72% |
| 2023.04.09 | Head | 2600 | 100 | 5.59 | 55.90 | 56.8 | -1.58% |
| 2023.04.12 | Head | 2600 | 100 | 5.77 | 57.70 | 56.8 | 1.58% |
| 2023.03.19 | Head | 2600 | 100 | 5.83 | 58.30 | 56.8 | 2.64% |
| 2023.03.20 | Head | 2600 | 100 | 5.94 | 59.40 | 56.8 | 4.58% |
| 2023.03.21 | Head | 2600 | 100 | 5.41 | 54.10 | 56.8 | -4.75% |
| 2023.03.22 | Head | 2600 | 100 | 5.61 | 56.10 | 56.8 | -1.23% |
| 2023.03.23 | Head | 2600 | 100 | 5.67 | 56.70 | 56.8 | -0.18% |
| 2023.03.24 | Head | 2600 | 100 | 5.74 | 57.40 | 56.8 | 1.06% |
| 2023.03.25 | Head | 2600 | 100 | 5.70 | 57.00 | 56.8 | 0.35% |
| 2023.03.26 | Head | 2600 | 100 | 5.65 | 56.50 | 56.8 | -0.53% |
| 2023.03.27 | Head | 2600 | 100 | 5.84 | 58.40 | 56.8 | 2.82% |
| 2023.03.28 | Head | 2600 | 100 | 5.91 | 59.10 | 56.8 | 4.05% |
| 2023.03.29 | Head | 5250 | 100 | 7.85 | 78.50 | 77.8 | 0.90% |
| 2023.03.30 | Head | 5250 | 100 | 8.07 | 80.70 | 77.8 | 3.73% |
| 2023.03.30 | Head | 5600 | 100 | 8.12 | 81.20 | 81.2 | 0.00% |
| 2023.03.31 | Head | 5750 | 100 | 7.87 | 78.70 | 77.2 | 1.94% |
| 2023.04.01 | Head | 5750 | 100 | 7.66 | 76.60 | 77.2 | -0.78% |
| 2023.04.10 | Head | 2600 | 100 | 5.85 | 58.50 | 56.8 | 2.99% |
| 2023.04.13 | Head | 2450 | 100 | 5.51 | 55.10 | 53 | 3.96% |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2023.04.14 | Head | 2600 | 100 | 5.88 | 58.80 | 56.8 | 3.52% |
| 2023.04.15 | Head | 2600 | 100 | 5.77 | 57.70 | 56.8 | 1.58% |
| 2023.04.16 | Head | 1750 | 100 | 3.77 | 37.70 | 36.7 | 2.72% |
| 2023.05.09 | Head | 1750 | 100 | 3.81 | 38.10 | 36.7 | 3.81% |
| 2023.05.09 | Head | 1900 | 100 | 4.23 | 42.30 | 40.3 | 4.96% |
| 2023.05.09 | Head | 2450 | 100 | 5.33 | 53.30 | 53.0 | 0.57% |
| Note: The tolerance limit of System validation ±10%. | | | | | | | |

Head Liquid 10g

| Date | Liquid Type | Freq. (MHz) | Power (mW) | Measured SAR (W/kg) | Normalized SAR (W/kg) | Dipole SAR (W/kg) | Tolerance |
|---|---|---|---|---|---|---|---|
| 2023.03.07 | Head | 1750 | 100 | 1.96 | 19.60 | 19.10 | 2.62% |
| 2023.03.08 | Head | 1750 | 100 | 1.82 | 18.20 | 19.10 | -4.71% |
| 2023.03.10 | Head | 1750 | 100 | 1.84 | 18.40 | 19.10 | -3.66% |
| 2023.04.07 | Head | 1900 | 100 | 2.11 | 21.10 | 20.30 | 3.94% |
| 2023.04.09 | Head | 2600 | 100 | 2.45 | 24.50 | 24.80 | -1.21% |
| 2023.03.21 | Head | 2600 | 100 | 2.38 | 23.80 | 24.80 | -4.03% |
| 2023.03.29 | Head | 5250 | 100 | 2.24 | 22.40 | 22.10 | 1.36% |
| 2023.03.30 | Head | 5600 | 100 | 2.29 | 22.90 | 23.10 | -0.87% |
| 2023.04.14 | Head | 2600 | 100 | 2.63 | 26.30 | 24.80 | 6.05% |
| 2023.04.15 | Head | 2600 | 100 | 2.59 | 25.90 | 24.80 | 4.44% |
| 2023.04.16 | Head | 1750 | 100 | 2.01 | 20.10 | 19.10 | 5.24% |
| Note: The tolerance limit of System validation ±10%. | | | | | | | |

# System Performance Check Data (750MHz)

**Device under Test Properties**

| Model, Manufacturer | Dimensions [mm] | DUT Type |
|---|---|---|
| **CD750V2, SPEAG** | 10.0 x 10.0 x 3.0 | Dipole |

**Exposure Conditions**

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity | Ambient Temperature [℃] | Liquid Temperature [℃] |
|---|---|---|---|---|---|---|---|---|---|
| **Flat, HSL** | | CD700 | CW, 0-- | 750.0, 100 | 10.96 | 0.888 | 41.2 | 22.3 | 21.1 |

**Hardware Setup**

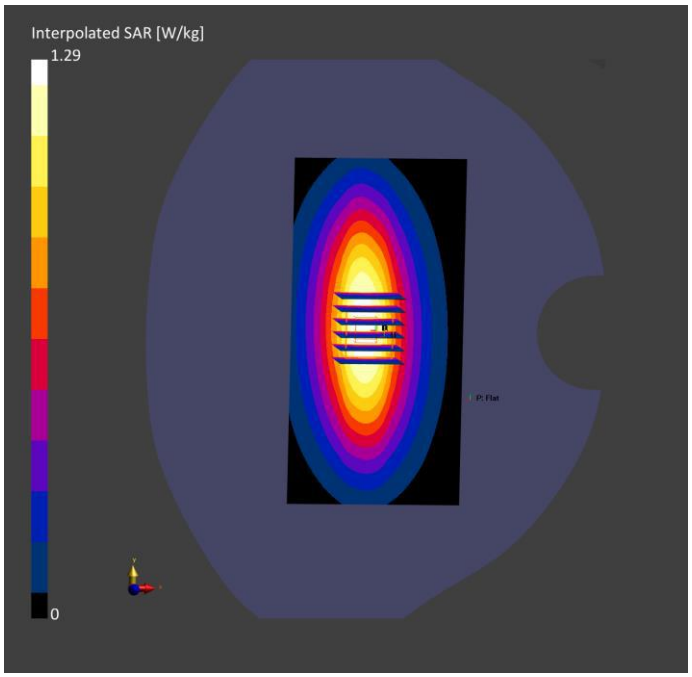
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|---|
| **Twin-SAM V5.0 (30deg probe tilt) - 1859** | HBBL-600-10000 2023-03-02 | EX3DV4 - SN7607, 2022-07-04 | DAE4 Sn878, 2022-06-13 |

**Scan Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 80.0 x 160.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Graded Grid | Yes | Yes |
| Grading Ratio | 1.5 | 1.5 |
| MAIA | N/A | N/A |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| Date | 2023-03-02 | 2023-03-02 |
| psSAR1g [W/kg] | 0.840 | 0.865 |
| psSAR10g [W/kg] | 0.562 | 0.553 |
| Power Drift [dB] | -0.06 | -0.01 |
| Power Scaling | Disabled | Disabled |
| Scaling Factor [dB] | | |
| TSL Correction | No correction | No correction |
| M2/M1 [%] | | 86.0 |
| Dist 3dB Peak [mm] | | 20.4 |


Interpolated SAR [W/kg]
1.29
0

# System Performance Check Data (750MHz)

**Device under Test Properties**

| Model, Manufacturer | Dimensions [mm] | DUT Type |
|---|---|---|
| **CD750V2, SPEAG** | 10.0 x 10.0 x 3.0 | Dipole |

**Exposure Conditions**

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity | Ambient Temperature [℃] | Liquid Temperature [℃] |
|---|---|---|---|---|---|---|---|---|---|
| **Flat, HSL** | | CD700 | CW, 0-- | 750.0, 100 | 10.96 | 0.904 | 43.1 | 22.4 | 21.3 |

**Hardware Setup**

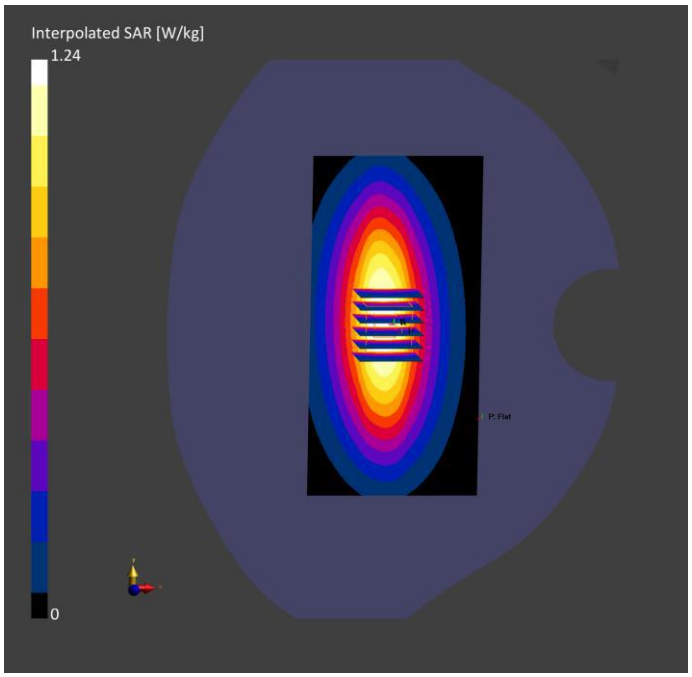
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|---|
| **Twin-SAM V5.0 (30deg probe tilt) - 1859** | HBBL-600-10000 2023-03-03 | EX3DV4 - SN7607, 2022-07-04 | DAE4 Sn878, 2022-06-13 |

**Scan Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 80.0 x 160.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Graded Grid | Yes | Yes |
| Grading Ratio | 1.5 | 1.5 |
| MAIA | N/A | N/A |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| Date | 2023-03-03 | 2023-03-03 |
| psSAR1g [W/kg] | 0.803 | 0.841 |
| psSAR10g [W/kg] | 0.537 | 0.542 |
| Power Drift [dB] | -0.16 | -0.01 |
| Power Scaling | Disabled | Disabled |
| Scaling Factor [dB] | | |
| TSL Correction | No correction | No correction |
| M2/M1 [%] | | 87.3 |
| Dist 3dB Peak [mm] | | 20.4 |


Interpolated SAR [W/kg]
1.24
0

# System Performance Check Data (835MHz)

**Device under Test Properties**

| Model, Manufacturer | Dimensions [mm] | DUT Type |
|---|---|---|
| **CD835V2, SPEAG** | 10.0 x 10.0 x 3.0 | Dipole |

**Exposure Conditions**

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity | Ambient Temperature [℃] | Liquid Temperature [℃] |
|---|---|---|---|---|---|---|---|---|---|
| **Flat, HSL** | | CD835 | CW, 0-- | 835.0, 50 | 10.44 | 0.913 | 41.0 | 22.4 | 21.2 |

**Hardware Setup**

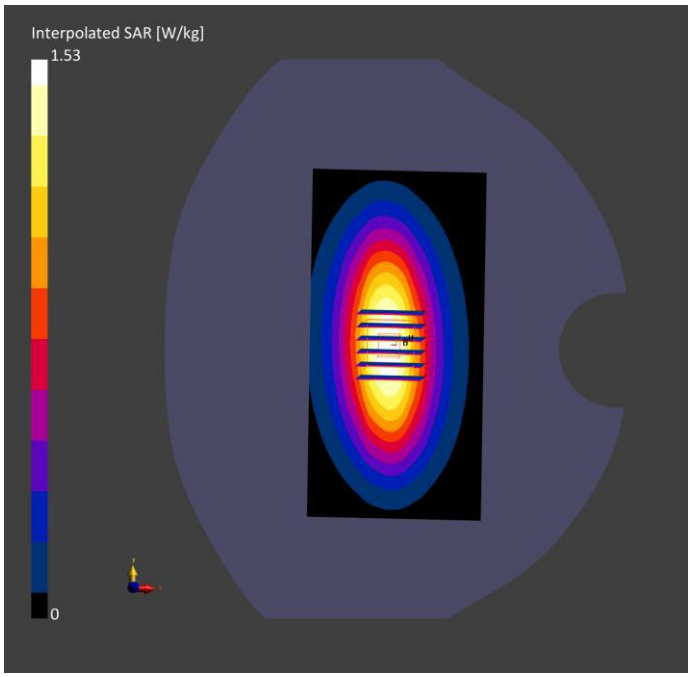
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|---|
| **Twin-SAM V5.0 (30deg probe tilt) - 1859** | HBBL-600-10000 2023-03-04 | EX3DV4 - SN7607, 2022-07-04 | DAE4 Sn878, 2022-06-13 |

**Scan Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 80.0 x 160.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Graded Grid | Yes | Yes |
| Grading Ratio | 1.5 | 1.5 |
| MAIA | N/A | N/A |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| Date | 2023-03-04 | 2023-03-04 |
| psSAR1g [W/kg] | 1.01 | 0.945 |
| psSAR10g [W/kg] | 0.645 | 0.617 |
| Power Drift [dB] | -0.02 | 0.01 |
| Power Scaling | Disabled | Disabled |
| Scaling Factor [dB] | | |
| TSL Correction | No correction | No correction |
| M2/M1 [%] | | 84.8 |
| Dist 3dB Peak [mm] | | 13.2 |


Interpolated SAR [W/kg]
1.53
0

# System Performance Check Data (835MHz)

**Device under Test Properties**

| Model, Manufacturer | Dimensions [mm] | DUT Type |
|---|---|---|
| **CD835V2, SPEAG** | 10.0 x 10.0 x 3.0 | Dipole |

**Exposure Conditions**

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity | Ambient Temperature [℃] | Liquid Temperature [℃] |
|---|---|---|---|---|---|---|---|---|---|
| **Flat, HSL** | | CD835 | CW, 0-- | 835.0, 50 | 10.44 | 0.884 | 41.3 | 21.1 | 20.9 |

**Hardware Setup**

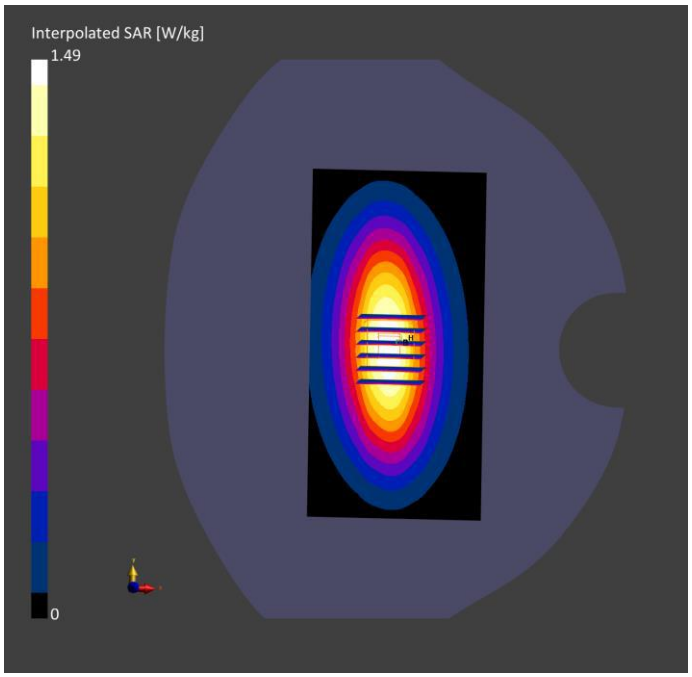
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|---|
| **Twin-SAM V5.0 (30deg probe tilt) - 1859** | HBBL-600-10000 2023-03-05 | EX3DV4 - SN7607, 2022-07-04 | DAE4 Sn878, 2022-06-13 |

**Scan Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 80.0 x 160.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Graded Grid | Yes | Yes |
| Grading Ratio | 1.5 | 1.5 |
| MAIA | N/A | N/A |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| Date | 2023-03-05 | 2023-03-05 |
| psSAR1g [W/kg] | 0.982 | 0.953 |
| psSAR10g [W/kg] | 0.625 | 0.628 |
| Power Drift [dB] | -0.01 | 0.00 |
| Power Scaling | Disabled | Disabled |
| Scaling Factor [dB] | | |
| TSL Correction | No correction | No correction |
| M2/M1 [%] | | 85.9 |
| Dist 3dB Peak [mm] | | 13.2 |


Interpolated SAR [W/kg]
1.49
0

# System Performance Check Data (835MHz)

**Device under Test Properties**

| Model, Manufacturer | Dimensions [mm] | DUT Type |
|---|---|---|
| **CD835V2, SPEAG** | 10.0 x 10.0 x 3.0 | Dipole |

**Exposure Conditions**

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity | Ambient Temperature [℃] | Liquid Temperature [℃] |
|---|---|---|---|---|---|---|---|---|---|
| **Flat, HSL** | | CD835 | CW, 0-- | 835.0, 50 | 10.44 | 0.883 | 41.5 | 22.0 | 21.0 |

**Hardware Setup**

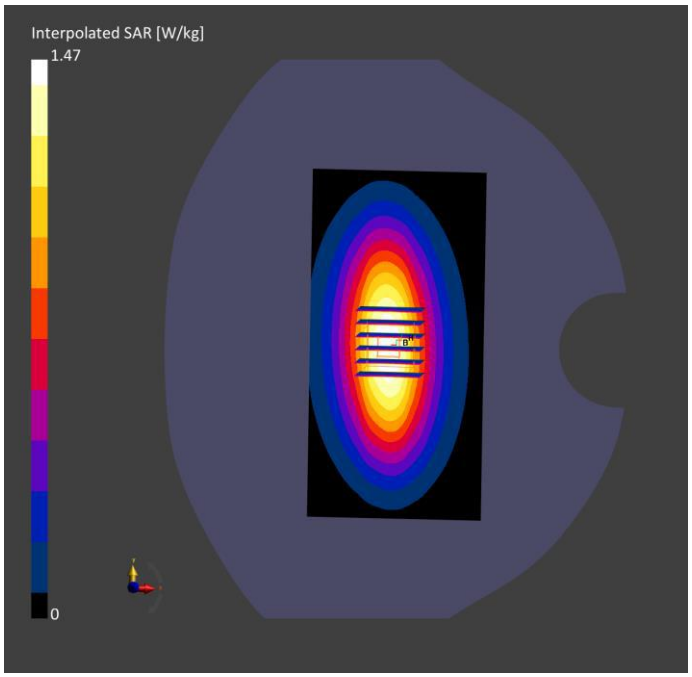
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|---|
| **Twin-SAM V5.0 (30deg probe tilt) - 1859** | HBBL-600-10000 2023-03-06 | EX3DV4 - SN7607, 2022-07-04 | DAE4 Sn878, 2022-06-13 |

**Scan Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 80.0 x 160.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Graded Grid | Yes | Yes |
| Grading Ratio | 1.5 | 1.5 |
| MAIA | N/A | N/A |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| Date | 2023-03-06 | 2023-03-06 |
| psSAR1g [W/kg] | 0.992 | 0.967 |
| psSAR10g [W/kg] | 0.631 | 0.641 |
| Power Drift [dB] | -0.00 | 0.02 |
| Power Scaling | Disabled | Disabled |
| Scaling Factor [dB] | | |
| TSL Correction | No correction | No correction |
| M2/M1 [%] | | 84.8 |
| Dist 3dB Peak [mm] | | 13.2 |


Interpolated SAR [W/kg]
1.47
0

# System Performance Check Data (1750MHz)

**Device under Test Properties**

| Model, Manufacturer | Dimensions [mm] | DUT Type |
|---|---|---|
| D1750V2, SPEAG | 10.0 x 10.0 x 3.0 | Dipole |

**Exposure Conditions**

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity | Ambient Temperature [℃] | Liquid Temperature [℃] |
|---|---|---|---|---|---|---|---|---|---|
| Flat, HSL | | D1750 | CW, 0-- | 1750.0, 50 | 8.69 | 1.40 | 41.2 | 22.3 | 21.1 |

**Hardware Setup**

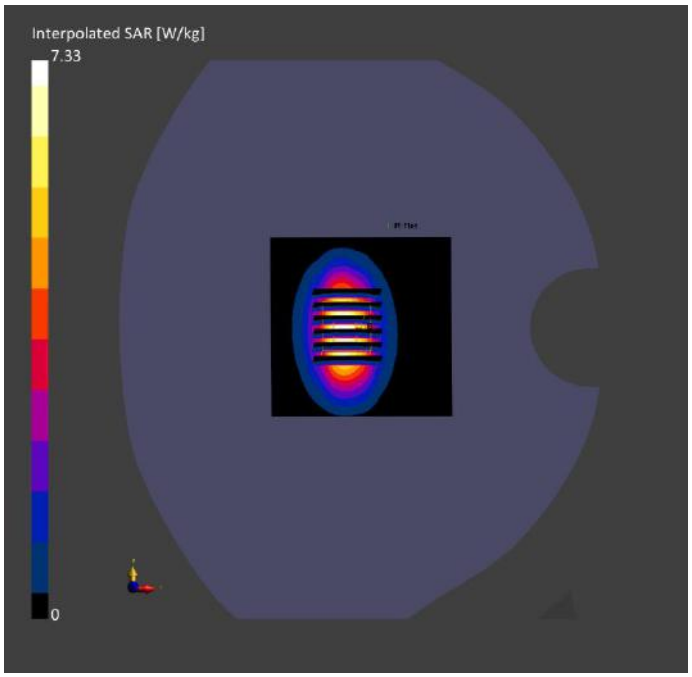
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|---|
| Twin-SAM V5.0 (30deg probe tilt) - 1859 | HBBL-600-10000 2023-03-07 | EX3DV4 - SN7607, 2022-07-04 | DAE4 Sn878, 2022-06-13 |

**Scan Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 80.0 x 80.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Graded Grid | Yes | Yes |
| Grading Ratio | 1.5 | 1.5 |
| MAIA | N/A | N/A |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| Date | 2023-03-07 | 2023-03-07 |
| psSAR1g [W/kg] | 4.01 | 3.77 |
| psSAR10g [W/kg] | 2.17 | 1.96 |
| Power Drift [dB] | -0.03 | -0.07 |
| Power Scaling | Disabled | Disabled |
| Scaling Factor [dB] | | |
| TSL Correction | No correction | No correction |
| M2/M1 [%] | | 82.3 |
| Dist 3dB Peak [mm] | | 9.9 |


Interpolated SAR [W/kg]
7.33
0

# System Performance Check Data (1750MHz)

**Device under Test Properties**

| Model, Manufacturer | Dimensions [mm] | DUT Type |
|---|---|---|
| D1750V2, SPEAG | 10.0 x 10.0 x 3.0 | Dipole |

**Exposure Conditions**

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity | Ambient Temperature [℃] | Liquid Temperature [℃] |
|---|---|---|---|---|---|---|---|---|---|
| Flat, HSL | | D1750 | CW, 0-- | 1750.0, 50 | 8.69 | 1.39 | 38.9 | 22.1 | 20.8 |

**Hardware Setup**

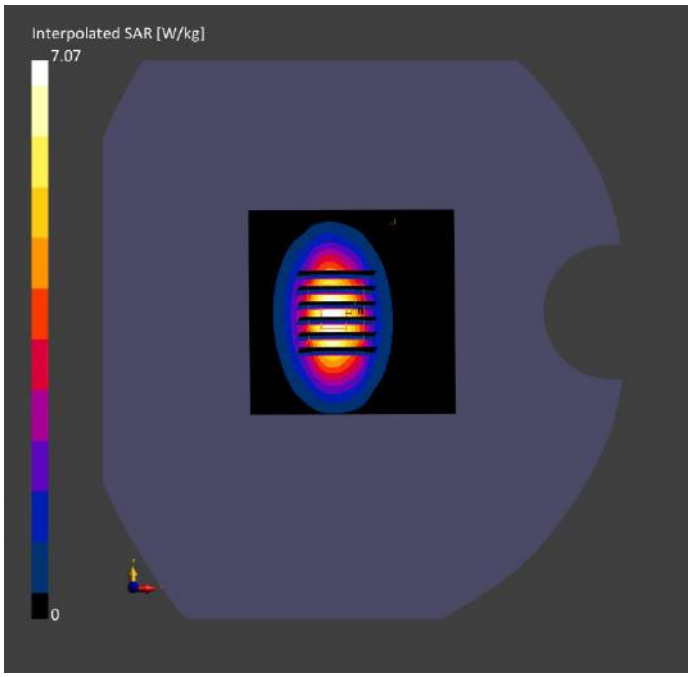
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|---|
| Twin-SAM V5.0 (30deg probe tilt) - 1859 | HBBL-600-10000 2023-03-08 | EX3DV4 - SN7607, 2022-07-04 | DAE4 Sn878, 2022-06-13 |

**Scan Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 80.0 x 80.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Graded Grid | Yes | Yes |
| Grading Ratio | 1.5 | 1.5 |
| MAIA | N/A | N/A |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| Date | 2023-03-08 | 2023-03-08 |
| psSAR1g [W/kg] | 3.77 | 3.50 |
| psSAR10g [W/kg] | 2.05 | 1.82 |
| Power Drift [dB] | -0.06 | -0.01 |
| Power Scaling | Disabled | Disabled |
| Scaling Factor [dB] | | |
| TSL Correction | No correction | No correction |
| M2/M1 [%] | | 81.9 |
| Dist 3dB Peak [mm] | | 10.7 |


Interpolated SAR [W/kg]
7.07
0

# System Performance Check Data (1750MHz)

**Device under Test Properties**

| Model, Manufacturer | Dimensions [mm] | DUT Type |
|---|---|---|
| D1750V2, SPEAG | 10.0 x 10.0 x 3.0 | Dipole |

**Exposure Conditions**

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity | Ambient Temperature [℃] | Liquid Temperature [℃] |
|---|---|---|---|---|---|---|---|---|---|
| Flat, HSL | | D1750 | CW, 0-- | 1750.0, 50 | 8.69 | 1.33 | 39.7 | 22.2 | 21.4 |

**Hardware Setup**

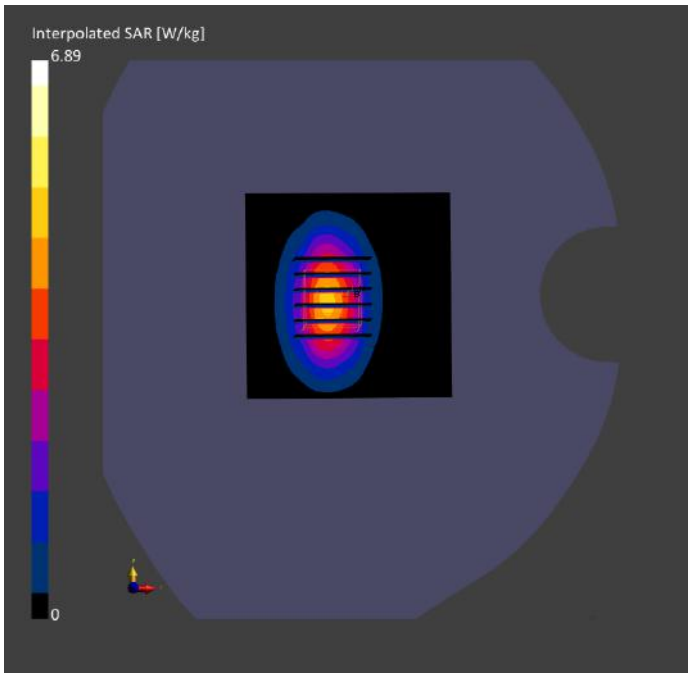
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|---|
| Twin-SAM V5.0 (30deg probe tilt) - 1859 | HBBL-600-10000 2023-03-09 | EX3DV4 - SN7607, 2022-07-04 | DAE4 Sn878, 2022-06-13 |

**Scan Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 80.0 x 80.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Graded Grid | Yes | Yes |
| Grading Ratio | 1.5 | 1.5 |
| MAIA | N/A | N/A |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| Date | 2023-03-09 | 2023-03-09 |
| psSAR1g [W/kg] | 3.94 | 3.53 |
| psSAR10g [W/kg] | 2.13 | 1.86 |
| Power Drift [dB] | -0.08 | -0.05 |
| Power Scaling | Disabled | Disabled |
| Scaling Factor [dB] | | |
| TSL Correction | No correction | No correction |
| M2/M1 [%] | | 81.9 |
| Dist 3dB Peak [mm] | | 10.3 |


Interpolated SAR [W/kg]
6.89
0

# System Performance Check Data (1750MHz)

**Device under Test Properties**

| Model, Manufacturer | Dimensions [mm] | DUT Type |
|---|---|---|
| D1750V2, SPEAG | 10.0 x 10.0 x 3.0 | Dipole |

**Exposure Conditions**

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity | Ambient Temperature [℃] | Liquid Temperature [℃] |
|---|---|---|---|---|---|---|---|---|---|
| Flat, HSL | | D1750 | CW, 0-- | 1750.0, 50 | 8.69 | 1.37 | 40.9 | 22.0 | 21.1 |

**Hardware Setup**

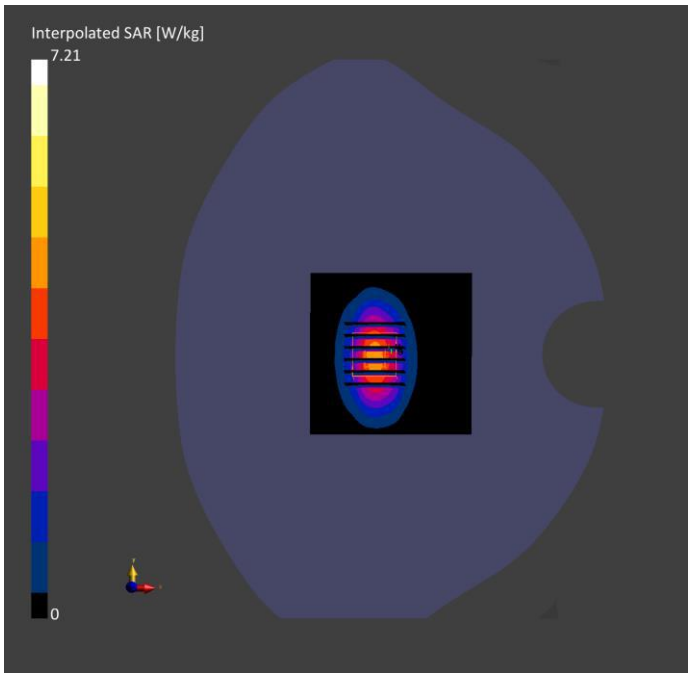
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|---|
| Twin-SAM V5.0 (30deg probe tilt) - 1859 | HBBL-600-10000 2023-03-10 | EX3DV4 - SN7607, 2022-07-04 | DAE4 Sn878, 2022-06-13 |

**Scan Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 80.0 x 80.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Graded Grid | Yes | Yes |
| Grading Ratio | 1.5 | 1.5 |
| MAIA | N/A | N/A |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| Date | 2023-03-10 | 2023-03-10 |
| psSAR1g [W/kg] | 4.01 | 3.68 |
| psSAR10g [W/kg] | 2.17 | 1.84 |
| Power Drift [dB] | -0.03 | -0.07 |
| Power Scaling | Disabled | Disabled |
| Scaling Factor [dB] | | |
| TSL Correction | No correction | No correction |
| M2/M1 [%] | | 81.7 |
| Dist 3dB Peak [mm] | | 10.1 |


Interpolated SAR [W/kg]
7.21
0

# System Performance Check Data (1750MHz)

**Device under Test Properties**

| Model, Manufacturer | Dimensions [mm] | DUT Type |
|---|---|---|
| D1750V2, SPEAG | 10.0 x 10.0 x 3.0 | Dipole |

**Exposure Conditions**

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity | Ambient Temperature [℃] | Liquid Temperature [℃] |
|---|---|---|---|---|---|---|---|---|---|
| Flat, HSL | | D1750 | CW, 0-- | 1750.0, 50 | 8.69 | 1.36 | 40.7 | 22.4 | 21.4 |

**Hardware Setup**

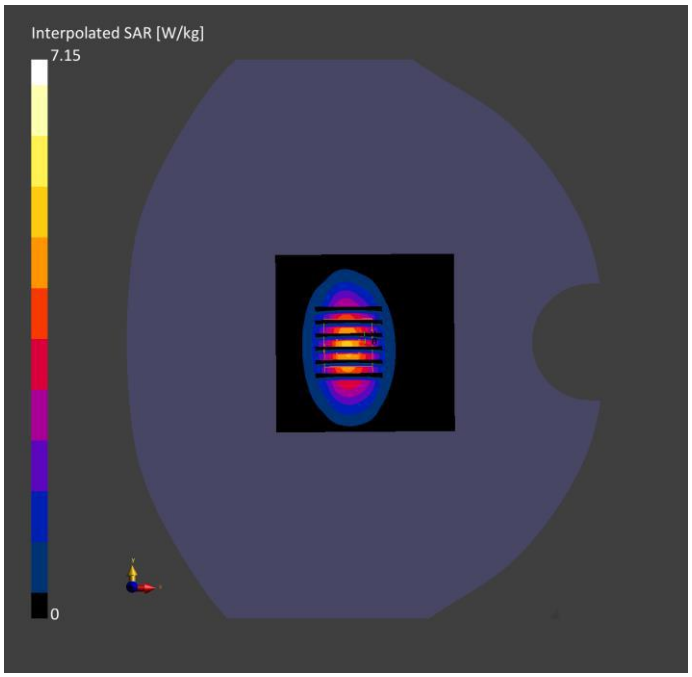
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|---|
| Twin-SAM V5.0 (30deg probe tilt) - 1859 | HBBL-600-10000 2023-03-11 | EX3DV4 - SN7607, 2022-07-04 | DAE4 Sn878, 2022-06-13 |

**Scan Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 80.0 x 80.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Graded Grid | Yes | Yes |
| Grading Ratio | 1.5 | 1.5 |
| MAIA | N/A | N/A |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| Date | 2023-03-11 | 2023-03-11 |
| psSAR1g [W/kg] | 3.83 | 3.82 |
| psSAR10g [W/kg] | 2.10 | 1.92 |
| Power Drift [dB] | -0.11 | -0.03 |
| Power Scaling | Disabled | Disabled |
| Scaling Factor [dB] | | |
| TSL Correction | No correction | No correction |
| M2/M1 [%] | | 82.6 |
| Dist 3dB Peak [mm] | | 9.4 |


Interpolated SAR [W/kg]
7.15
0

# System Performance Check Data (1750MHz)

**Device under Test Properties**

| Model, Manufacturer | Dimensions [mm] | DUT Type |
|---|---|---|
| D1750V2, SPEAG | 10.0 x 10.0 x 3.0 | Dipole |

**Exposure Conditions**

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity | Ambient Temperature [℃] | Liquid Temperature [℃] |
|---|---|---|---|---|---|---|---|---|---|
| Flat, HSL | | D1750 | CW, 0-- | 1750.0, 50 | 8.69 | 1.37 | 39.1 | 21.9 | 21.0 |

**Hardware Setup**

| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date |
|---|---|---|---|
| Twin-SAM V5.0 (30deg probe tilt) - 1859 | HBBL-600-10000 2023-03-12 | EX3DV4 - SN7607, 2022-07-04 | DAE4 Sn878, 2022-06-13 |

**Scan Setup**

| | Area Scan | Zoom Scan |
|---|---|---|
| Grid Extents [mm] | 80.0 x 80.0 | 30.0 x 30.0 x 30.0 |
| Grid Steps [mm] | 10.0 x 10.0 | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Graded Grid | Yes | Yes |
| Grading Ratio | 1.5 | 1.5 |
| MAIA | N/A | N/A |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

**Measurement Results**

| | Area Scan | Zoom Scan |
|---|---|---|
| Date | 2023-03-12 | 2023-03-12 |
| psSAR1g [W/kg] | 3.93 | 3.71 |
| psSAR10g [W/kg] | 1.98 | 1.94 |
| Power Drift [dB] | 0.01 | -0.04 |
| Power Scaling | Disabled | Disabled |
| Scaling Factor [dB] | | |
| TSL Correction | No correction | No correction |
| M2/M1 [%] | | 81.7 |
| Dist 3dB Peak [mm] | | 10.2 |