# SAR TEST REPORT

## No. 24T04Z102392-021

**For**

**BLU Products,Inc.**

**Smart phone**

**Model Name: B1660V**

**with**

**Hardware Version: V1.0**

**Software Version: BLU_B1660V_V15.0.01.05.01.05_FSec**

**FCC ID: YHLBLUB1660V**

**Issued Date: 2025-02-15**

**Note:**

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

Test Laboratory:

CTTL, Telecommunication Technology Labs, CAICT

No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191.

Tel:+86(0)10-62304633-2512, Fax:+86(0)10-62304633-2504

Email: cttl_terminals@caict.ac.cn, website: www.caict.ac.cn

# REPORT HISTORY

| Report Number | Revision | Issue Date | Description |
|---|---|---|---|
| 24T04Z102392-021 | Rev.0 | 2025-02-15 | Initial creation of test report |

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# 1 Test Laboratory

## 1.1. Introduction & Accreditation

**Telecommunication Technology Labs, CAICT** is an ISO/IEC 17025:2017 accredited test laboratory under American Association for Laboratory Accreditation (A2LA) with lab code 7049.01, and is also an FCC accredited test laboratory (CN1349), and ISED accredited test laboratory (CAB identifier:CN0066). The detail accreditation scope can be found on A2LA website.

## 1.2. Testing Location

Location 1: CTTL(huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191

## 1.3. Testing Environment

Normal Temperature: 18-25℃

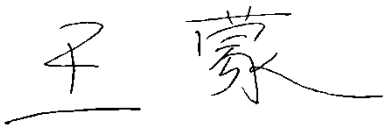
Relative Humidity: 30-70%

## 1.4. Project data

Testing Start Date: 2024-12-26

Testing End Date: 2025-02-14

## 1.5. Signature

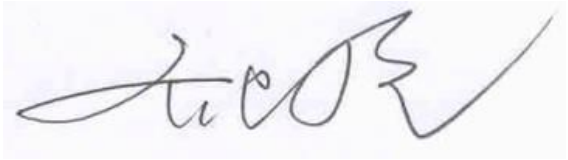


**Wang Meng**

**(Prepared this test report)**

**Lin Jun**

**(Reviewed this test report)**



**Qi Dianyuan**

**Deputy Director of the laboratory**

**(Approved this test report)**

## 2 Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for BLU Products,Inc. Smart phone B1660V are as follows:

**Table 2.1: Highest Reported SAR (1g)**

| Mode | | Antenna | Highest Reported SAR (1g) | | | |
|---|---|---|---|---|---|---|
| | | | 1g SAR Head | 1g SAR Hotspot | 1g SAR Body-worn | 10g SAR Phablet |
| WCDMA | UMTS FDD 5 | ANT1 | 0.32 | 0.35 | 0.35 | / |
| | UMTS FDD 4 | ANT1 | 0.16 | 1.17 | 1.17 | / |
| | UMTS FDD 2 | ANT1 | 0.17 | 1.03 | 1.03 | / |
| LTE | LTE Band 2 | ANT1 | 0.17 | 1.01 | 1.01 | / |
| | LTE Band 2 | ANT5 | 0.75 | 0.68 | 0.69 | / |
| | LTE Band 4 | ANT1 | 0.25 | 1.05 | 1.05 | / |
| | LTE Band 4 | ANT5 | 0.56 | 0.67 | 0.43 | |
| | LTE Band 5 | ANT1 | 0.41 | 0.51 | 0.51 | / |
| | LTE Band 12 | ANT1 | 0.31 | 0.49 | 0.49 | / |
| | LTE Band 13 | ANT1 | 0.36 | 0.47 | 0.47 | / |
| | LTE Band 66 | ANT1 | 0.24 | 1.04 | 1.04 | / |
| | LTE Band 66 | ANT5 | 0.65 | 0.69 | 0.57 | / |
| NR | N2 | ANT5 | 0.64 | 0.51 | 0.76 | / |
| | N5 | ANT1 | 0.41 | 0.53 | 0.53 | / |
| | N66 | ANT1 | 0.31 | 0.65 | 0.65 | / |
| | N66 | ANT5 | 0.64 | 0.69 | 0.60 | / |
| | N77 PC2-L | ANT4 | 0.63 | 0.66 | 0.55 | / |
| | N77 PC2-H | ANT4 | 0.75 | 0.59 | 0.77 | / |
| | N77 PC3-L | ANT4 | 0.55 | 0.70 | 0.49 | / |
| | N77 PC3-H | ANT4 | 0.73 | 0.60 | 0.67 | / |
| WLAN 2.4 GHz | | ANT7 | 1.03 | 0.33 | 0.16 | / |
| WLAN 5 GHz | | ANT7 | 0.80 | 1.06 | 0.72 | / |
| BT | | ANT7 | <0.01 | <0.01 | <0.01 | / |

The SAR values found for the Mobile Phone are below the maximum recommended levels of 1.6 W/kg as averaged over any 1g tissue according to the ANSI C95.1-1992.

For body operation, this device has been tested and meets FCC RF exposure guidelines when used with any accessory that contains no metal and which provides a minimum separation distance of 10/15 mm between this device and the body of the user. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power output.

The measurement together with the test system set-up is described in annex C of this test report. A detailed description of the equipment under test can be found in chapter 4 of this test report. The highest reported SAR value is obtained at the case of **(Table 2.1),** and the values are**:**

**Head:1.03 W/kg(1g)**

**Body:1.17 W/kg(1g)**

**Table 2.2: The sum of SAR values for Main antenna + WiFi+BT**

| | Position | Main antenna | WiFi | BT | Sum |
|---|---|---|---|---|---|
| **Highest SAR value for head** | Left Tilt | 0.86<br>DC_5A_n2A(ANT1+5) | 0.68<br>WiFi5G | <0.01 | **1.54** |
| **Highest SAR value for body** | Rear 15mm | 1.07<br>DC_13A_n66A(ANT1+5) | 0.49<br>WiFi5G | 0.03 | **1.59** |

According to the above tables, the highest sum of reported SAR values is **1.59 W/kg (1g)**. The detail for simultaneous transmission consideration is described in chapter 13.

**Conclusion:**

According to the above tables, the sum of reported SAR values is<1.6W/kg for 1g SAR. So the simultaneous transmission SAR with volume scans is not required.

# 3 Client Information

## 3.1 Applicant Information

| | |
|---|---|
| Company Name: | BLU Products,Inc. |
| Address/Post: | 8600 NW 36th Street, Suite #300 \| Miami, FL 33166 |
| Contact Person: | Zeng wei |
| Contact Email: | zwei@ctasiasz.com |
| Telephone: | 305.715.7171 |
| Fax | 305.436.8819 |

## 3.2 Manufacturer Information

| | |
|---|---|
| Company Name: | BLU Products,Inc. |
| Address/Post: | 8600 NW 36th Street, Suite #300 \| Miami, FL 33166 |
| Contact Person: | Zeng wei |
| Contact Email: | zwei@ctasiasz.com |
| Telephone: | 305.715.7171 |
| Fax | 305.436.8819 |

# 4 Equipment Under Test (EUT) and Ancillary Equipment (AE)

## 4.1 About EUT

| | |
|---|---|
| Description: | Smart phone |
| Model name: | B1660V |
| Tested Band: | WCDMA B2/4/B5<br>LTE Band2/4/5/12/13/66<br>5G NR N2/5/66/77<br>BT, Wi-Fi(2.4G), Wi-Fi(5G) |
| Tx Frequency: | 824–849 MHz (WCDMA 850 Band V) |
| | 1710 – 1755 MHz (WCDMA 1700 Band IV) |
| | 1850–1910 MHz (WCDMA1900 Band II) |
| | 1850 – 1910 MHz(LTE Band 2) |
| | 1710 – 1755 MHz (LTE Band 4) |
| | 824 – 849 MHz (LTE Band 5) |
| | 699 – 716 MHz (LTE Band 12) |
| | 777 –787 MHz (LTE Band 13) |
| | 1710 – 1780 MHz (LTE Band 66) |
| | 2412 – 2462 MHz (Wi-Fi 2.4G) |
| | 5180 – 5240 MHz (Wi-Fi 5.2G) |
| | 5260 – 5320 MHz (Wi-Fi 5.3G) |
| | 5500 – 5720 MHz (Wi-Fi 5.5G) |
| | 5745 – 5825 MHz (Wi-Fi 5.8G) |
| | 2400 – 2483.5 MHz (Bluetooth) |
| | 1850 – 1910 MHz(n2) |
| | 824 – 849 MHz(n5) |
| | 1710– 1780 MHz (n66) |
| | 3450 – 3550 MHz (n77L) |
| | 3700 – 3980 MHz (n77H) |
| Test device production information: | Production unit |
| Device type: | Portable device |
| Antenna type: | Integrated antenna |
| Hotspot mode: | Support |

## 4.2 Internal Identification of EUT used during the test

| EUT ID* | IMEI | HW Version | SW Version |
|---|---|---|---|
| EUT1 | 354154670008124 | V1.0 | BLU_B1660V_V15.0.01.05.01.05_FSec |
| EUT2 | 354154670009437 | V1.0 | BLU_B1660V_V15.0.01.05.01.05_FSec |
| EUT3 | 354154670012225 | V1.0 | BLU_B1660V_V15.0.01.05.01.05_FSec |
| EUT4 | 354154670013934 | V1.0 | BLU_B1660V_V15.0.01.05.01.05_FSec |
| EUT5 | 354154670010674 | V1.0 | BLU_B1660V_V15.0.01.05.01.05_FSec |
| EUT6 | 354154670011037 | V1.0 | BLU_B1660V_V15.0.01.05.01.05_FSec |
| EUT7 | 354154670003869 | V1.0 | BLU_B1660V_V15.0.01.05.01.05_FSec |
| EUT8 | 354154670004503 | V1.0 | BLU_B1660V_V15.0.01.05.01.05_FSec |
| EUT9 | 354154670005237 | V1.0 | BLU_B1660V_V15.0.01.05.01.05_FSec |

*EUT ID: is used to identify the test sample in the lab internally.

**Note:** It is performed to test SAR with the EUT1~6 and conducted power with the EUT7~9.

## 4.3 Internal Identification of AE used during the test

| AE ID* | Description | Model | SN | Manufacturer |
|---|---|---|---|---|
| AE1 | Battery | C906548500PTF | / | Guangdong Highpower New Energy Technology Co., Ltd. |

*AE ID: is used to identify the test sample in the lab internally.

# 5 TEST METHODOLOGY

## 5.1 Applicable Limit Regulations

**ANSI C95.1–1992:**IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

It specifies the maximum exposure limit of **1.6 W/kg** as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.

It specifies the maximum exposure limit of **4.0 W/kg** as averaged over any 10 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.

## 5.2 Applicable Measurement Standards

**IEEE 1528–2013:** Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques.

**KDB447498 D01: General RF Exposure Guidance v06:** Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

**KDB648474 D04 Handset SAR v01r03:** SAR Evaluation Considerations for Wireless Handsets.

**KDB941225 D01 SAR test for 3G devices v03r01:** SAR Measurement Procedures for 3G Devices

**KDB941225 D05 SAR for LTE Devices v02r05:** SAR Evaluation Considerations for LTE Devices

**KDB941225 D06 Hotspot Mode SAR v02r01:** SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities

**KDB248227 D01 802.11 Wi-Fi SAR v02r02:** SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS

**KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04:** SAR Measurement Requirements for 100 MHz to 6 GHz.

**KDB865664 D02 RF Exposure Reporting v01r02:** RF Exposure Compliance Reporting and Documentation Considerations

**TCB Workshop Nov 2017:**RF Exposure Procedures (Carrier Aggregation SAR)

**TCB Workshop Nov 2019:**RF Exposure Policy Updates (5G NR NSA Sub 6G SAR)

# 6 Specific Absorption Rate (SAR)

## 6.1 Introduction

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.

## 6.2 SAR Definition

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 ( $\rho$ ) . The equation description is as below:

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

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

$$SAR = c\left(\frac{\delta T}{\delta t}\right)$$

Where: C is the specific head capacity, $\delta T$ is the temperature rise and $\delta t$ is the exposure duration, or related to the electrical field in the tissue by

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

Where: $\sigma$ is the conductivity of the tissue, $\rho$ is the mass density of tissue and $E$ is the RMS electrical field strength.

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

# 7 Tissue Simulating Liquids

## 7.1 Targets for tissue simulating liquid

**Table 7.1: Targets for tissue simulating liquid**

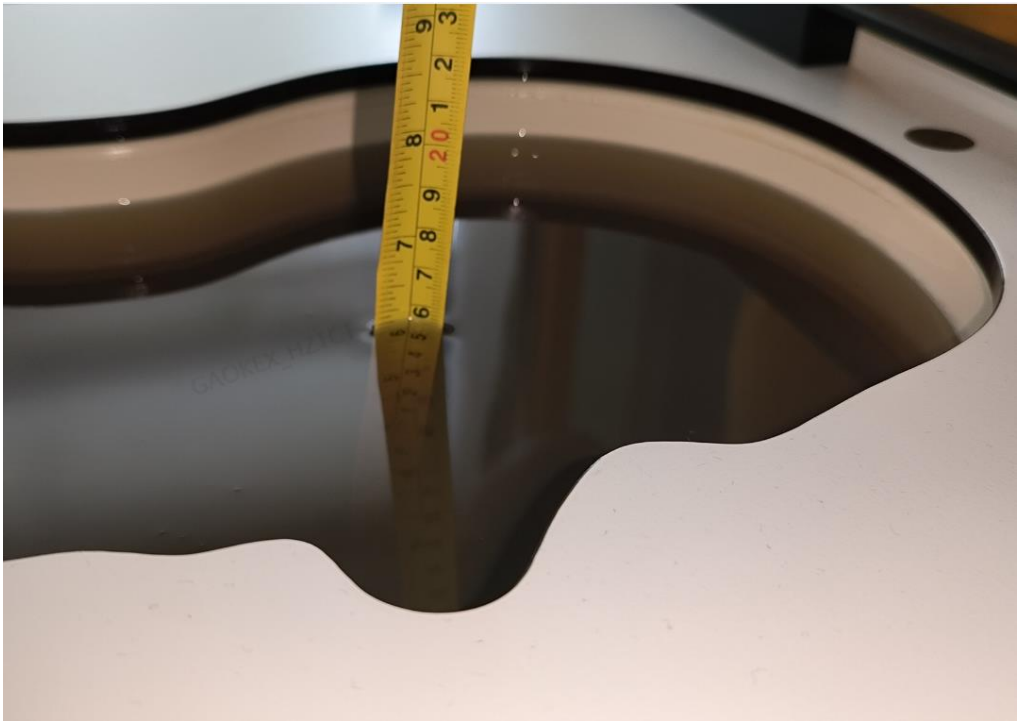
| Frequency(MHz) | Liquid Type | Conductivity(σ) | ±5% Range | Permittivity(ε) | ± 5% Range |
|---|---|---|---|---|---|
| 750 | Head | 0.89 | 0.85～0.93 | 41.94 | 39.8～44.0 |
| 835 | Head | 0.90 | 0.86～0.95 | 41.5 | 39.4～43.6 |
| 1750 | Head | 1.37 | 1.30～1.44 | 40.08 | 38.1～42.1 |
| 1900 | Head | 1.40 | 1.33～1.47 | 40.0 | 38.0～42.0 |
| 2450 | Head | 1.80 | 1.62～1.98 | 39.2 | 35.28～43.12 |
| 3500 | Head | 2.91 | 2.76～3.06 | 37.93 | 36.03～39.83 |
| 3700 | Head | 3.22 | 3.06～3.38 | 37.6 | 35.72～39.48 |
| 3900 | Head | 3.32 | 3.15～3.49 | 37.5 | 35.63～39.38 |
| 5250 | Head | 4.71 | 4.47～4.95 | 35.93 | 34.13～37.73 |
| 5600 | Head | 5.07 | 4.82～5.32 | 35.53 | 33.8～37.3 |
| 5750 | Head | 5.22 | 4.96～5.48 | 35.36 | 33.59～37.13 |

## 7.2 Dielectric Performance

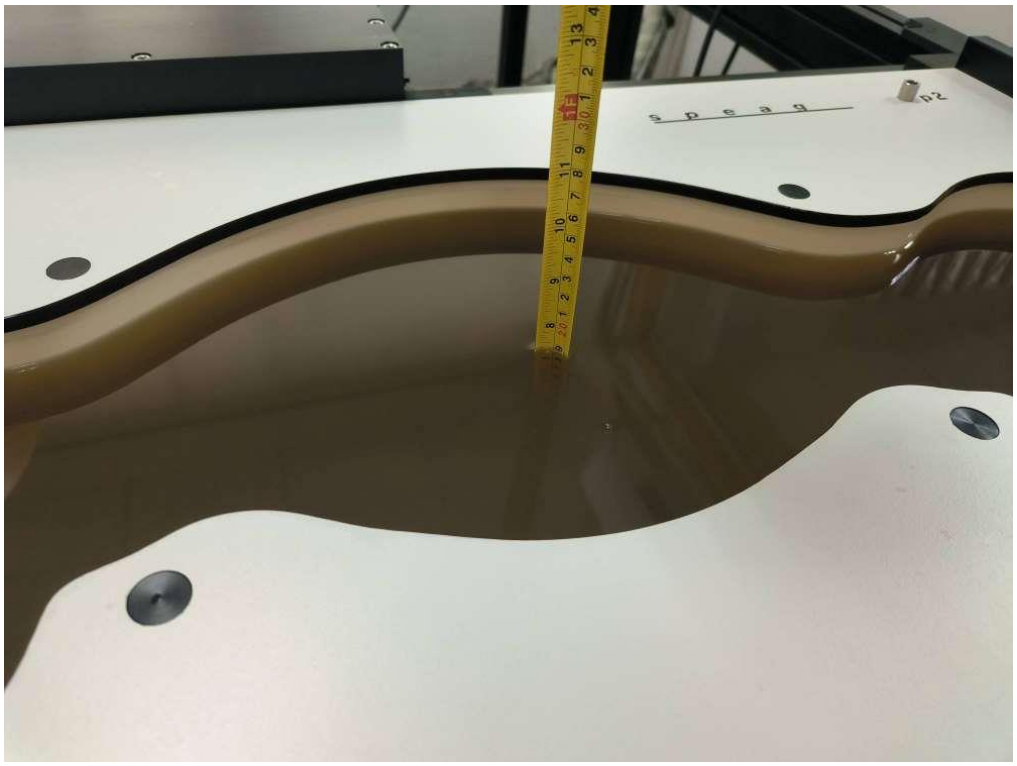
**Table 7.2: Dielectric Performance of Tissue Simulating Liquid**

| Measurement Date (yyyy-mm-dd) | Type | Frequency | Permittivity ε | Drift (%) | Conductivity σ (S/m) | Drift (%) |
|---|---|---|---|---|---|---|
| 2024/12/26 | Head | 750 MHz | 43.15 | 2.89 | 0.922 | 3.60 |
| 2024/12/27 | Head | 835 MHz | 42.66 | 2.80 | 0.937 | 4.11 |
| 2025/1/23 | Head | 1750 MHz | 40.84 | 1.90 | 1.351 | -1.39 |
| 2025/1/20 | Head | 1900 MHz | 40.61 | 1.53 | 1.438 | 2.71 |
| 2025/2/12 | Head | 2450 MHz | 40.04 | 2.14 | 1.836 | 2.00 |
| 2025/2/7 | Head | 3300 MHz | 38.41 | 0.66 | 2.691 | -0.70 |
| 2025/2/7 | Head | 3500 MHz | 38.08 | 0.40 | 2.868 | -1.44 |
| 2025/2/7 | Head | 3700 MHz | 37.78 | 0.21 | 3.051 | -2.21 |
| 2025/2/7 | Head | 3900 MHz | 37.53 | 0.16 | 3.254 | -1.99 |
| 2025/2/7 | Head | 4200 MHz | 37.08 | -0.13 | 3.573 | -1.57 |
| 2025/2/13 | Head | 5250 MHz | 35.38 | -1.53 | 4.753 | 0.91 |
| 2025/2/13 | Head | 5600 MHz | 34.82 | -2.00 | 5.159 | 1.76 |
| 2025/2/13 | Head | 5750 MHz | 34.56 | -2.26 | 5.348 | 2.45 |

Note: The liquid temperature is 22.0°C



**Picture 7-1 Liquid depth in the Head Phantom**

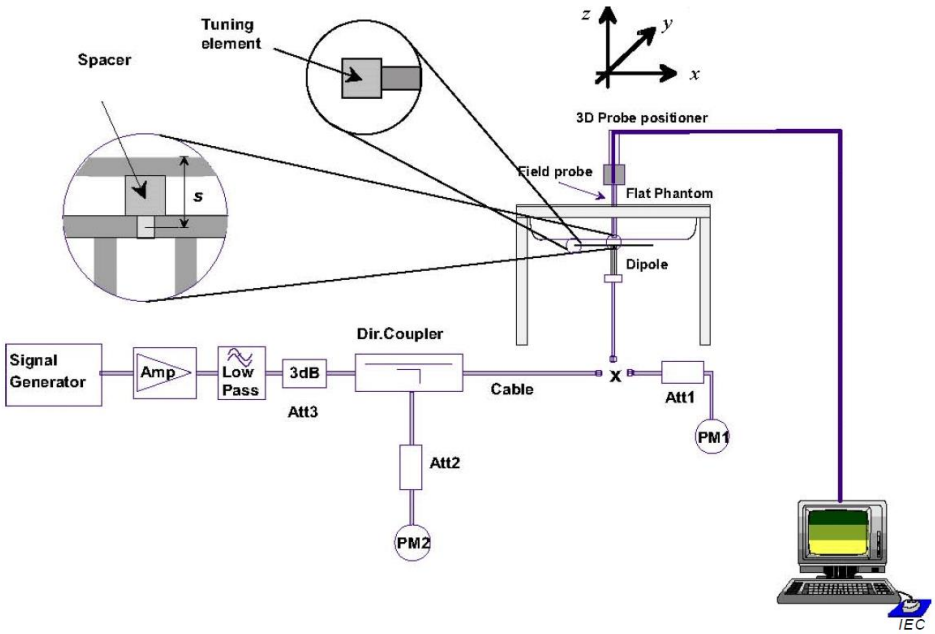


**Picture 7-2 Liquid depth in the Flat Phantom**

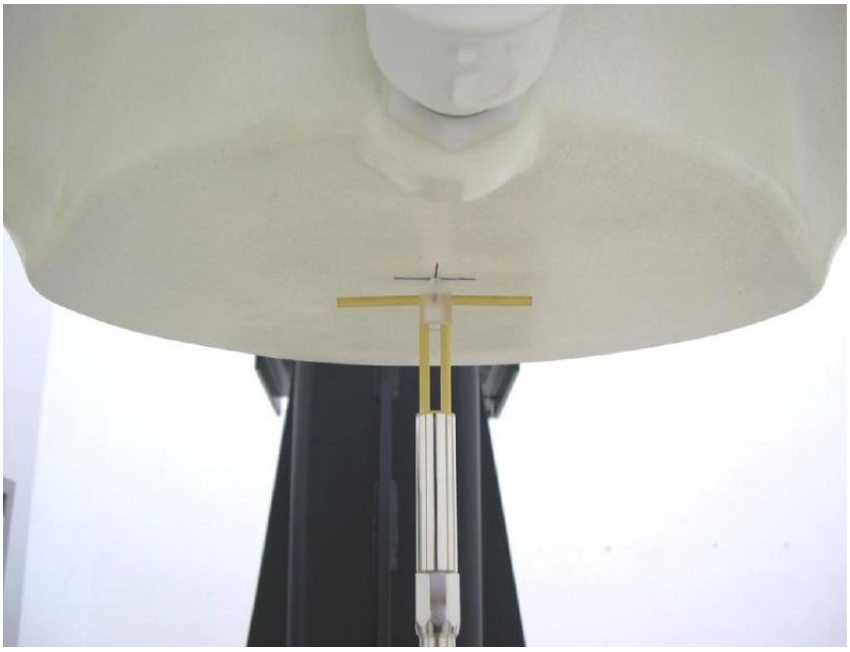
# 8 System verification

## 8.1 System Setup

In the simplified setup for system evaluation, the DUT 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:




**Picture 8-1 System Setup for System Evaluation**



**Picture 8-2 Photo of Dipole Setup**

## 8.2 System Verification

SAR system verification is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device.
The system verification results are required that the area scan estimated 1-g SAR is within 3% of the zoom scan 1-g SAR.

**Table 8.1: System Verification of Head**

| Measurement Date (yyyy-mm-dd) | Frequency | Target value (W/kg) | | Measured value(W/kg) | | Deviation | |
|---|---|---|---|---|---|---|---|
| | | 10 g Average | 1 g Average | 10 g Average | 1 g Average | 10 g Average | 1 g Average |
| 2024/12/26 | 750 MHz | 5.53 | 8.52 | 5.56 | 8.36 | 0.54% | -1.88% |
| 2024/12/27 | 835 MHz | 6.09 | 9.47 | 6.20 | 9.48 | 1.81% | 0.11% |
| 2025/1/23 | 1750 MHz | 19.8 | 37.2 | 19.6 | 36.8 | -1.21% | -0.97% |
| 2025/1/20 | 1900 MHz | 20.6 | 39.1 | 20.9 | 39.8 | 1.36% | 1.79% |
| 2025/2/12 | 2450 MHz | 24.5 | 52.2 | 25.0 | 53.2 | 2.04% | 1.92% |
| 2025/2/7 | 3300 MHz | 25.8 | 67.10 | 25.8 | 65.4 | 0.00% | -2.53% |
| 2025/2/7 | 3500 MHz | 25.7 | 68.00 | 25.9 | 66.6 | 0.78% | -2.06% |
| 2025/2/7 | 3700 MHz | 24.9 | 68.7 | 25.2 | 66.2 | 1.20% | -3.64% |
| 2025/2/7 | 3900 MHz | 24.5 | 70.2 | 23.9 | 66.1 | -2.45% | -5.84% |
| 2025/2/7 | 4200 MHz | 22.7 | 66.6 | 23.3 | 66.9 | 2.64% | 0.45% |
| 2025/2/13 | 5250 MHz | 22.4 | 78.3 | 22.4 | 78.1 | 0.00% | -0.26% |
| 2025/2/13 | 5600 MHz | 23.2 | 81.7 | 23.6 | 82.5 | 1.72% | 0.98% |
| 2025/2/13 | 5750 MHz | 22.8 | 79.9 | 21.9 | 77.8 | -3.95% | -2.63% |

# 9 Measurement Procedures

## 9.1 Tests to be performed

In order to determine the highest value of the peak spatial-average SAR of a handset, all device positions, configurations and operational modes shall be tested for each frequency band according to steps 1 to 3 below. A flowchart of the test process is shown in picture 9.1.

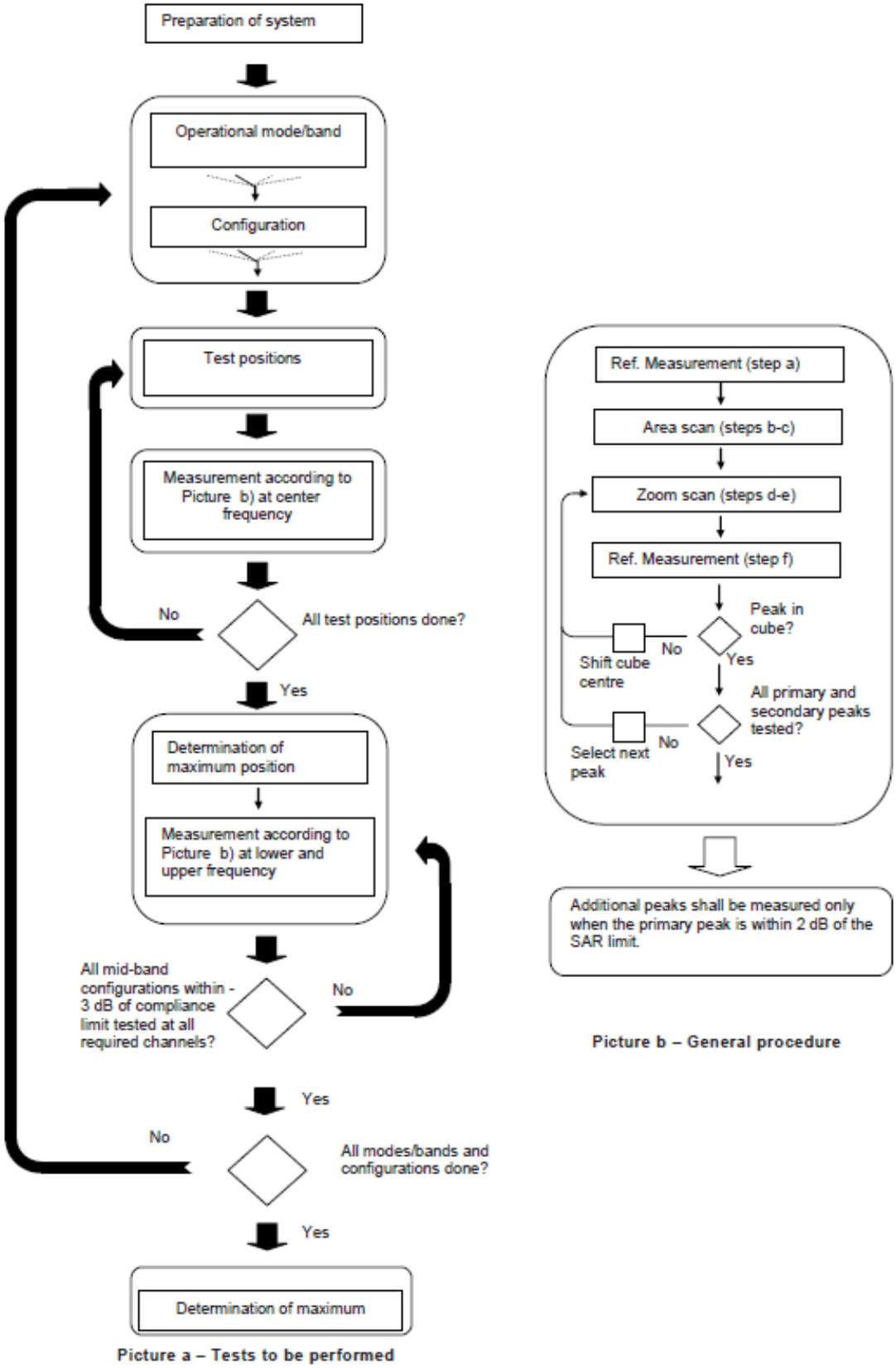
**Step 1**: The tests described in 9.2 shall be performed at the channel that is closest to the centre of the transmit frequency band ( $f_c$ ) for:

a) all device positions (cheek and tilt, for both left and right sides of the SAM phantom, as described in annex D),
b) all configurations for each device position in a), e.g., antenna extended and retracted, and
c) all operational modes, e.g., analogue and digital, for each device position in a) and configuration in b) in each frequency band.

If more than three frequencies need to be tested according to 11.1 (i.e., $N_c > 3$), then all frequencies, configurations and modes shall be tested for all of the above test conditions.

**Step 2**: For the condition providing highest peak spatial-average SAR determined in Step 1,perform all tests described in 9.2 at all other test frequencies, i.e., lowest and highest frequencies. In addition, for all other conditions (device position, configuration and operational mode) where the peak spatial-average SAR value determined in Step 1 is within3 dB of the applicable SAR limit, it is recommended that all other test frequencies shall be tested as well.

**Step 3**: Examine all data to determine the highest value of the peak spatial-average SAR found in Steps 1 to 2.




**Picture 9-1 Block diagram of the tests to be performed**

## 9.2 General Measurement Procedure

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements and fully documented in SAR reports to qualify for TCB approval. Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the 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 1528-2003. The results should be documented as part of the system validation records and may be requested to support test results when all the measurement parameters in the following table are not satisfied.

<table>
<tr><td colspan="3"></td><td>≤ 3 GHz</td><td>> 3 GHz</td></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: $\Delta x_{Area}$, $\Delta y_{Area}$</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: $\Delta x_{Zoom}$, $\Delta y_{Zoom}$</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="3">Maximum zoom scan spatial resolution, normal to phantom surface</td><td colspan="2">uniform grid: $\Delta z_{Zoom}(n)$</td><td>≤ 5 mm</td><td>3 – 4 GHz: ≤ 4 mm<br>4 – 5 GHz: ≤ 3 mm<br>5 – 6 GHz: ≤ 2 mm</td></tr>
<tr><td rowspan="2">graded grid</td><td>$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface</td><td>≤ 4 mm</td><td>3 – 4 GHz: ≤ 3 mm<br>4 – 5 GHz: ≤ 2.5 mm<br>5 – 6 GHz: ≤ 2 mm</td></tr>
<tr><td>$\Delta z_{Zoom}(n>1)$: between subsequent points</td><td colspan="2">≤ 1.5·$\Delta z_{Zoom}(n-1)$</td></tr>
<tr><td>Minimum zoom scan volume</td><td colspan="2">x, y, z</td><td>≥ 30 mm</td><td>3 – 4 GHz: ≥ 28 mm<br>4 – 5 GHz: ≥ 25 mm<br>5 – 6 GHz: ≥ 22 mm</td></tr>
<tr><td colspan="5">Note: 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>* When zoom scan is required and the <u>reported</u> 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 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.</td></tr>
</table>

## 9.3 WCDMA Measurement Procedures for SAR

The following procedures are applicable to WCDMA handsets operating under 3GPP Release99, Release 5 and Release 6. The default test configuration is to measure SAR with an established radio link between the DUT and a communication test set using a 12.2kbps RMC (reference measurement channel) configured in Test Loop Mode 1. SAR is selectively confirmed for other physical channel configurations (DPCCH & $DPDCH_n$), HSDPA and HSPA (HSUPA/HSDPA) modes according to output power, exposure conditions and device operating capabilities. Both uplink and downlink should be configured with the same RMC or AMR, when required. SAR for Release 5 HSDPA and Release 6 HSPA are measured using the applicable FRC (fixed reference channel) and E-DCH reference channel configurations. Maximum output power is verified according to applicable versions of 3GPP TS 34.121 and SAR must be measured according to these maximum output conditions. When Maximum Power Reduction (MPR) is not implemented according to Cubic Metric (CM) requirements for Release 6 HSPA, the following procedures do not apply.

**For Release 5 HSDPA Data Devices:**

| Sub-test | $\beta_c$ | $\beta_d$ | $\beta_d$ （SF） | $\beta_c/\beta_d$ | $\beta_{hs}$ | CM/dB |
|---|---|---|---|---|---|---|
| 1 | 2/15 | 15/15 | 64 | 2/15 | 4/15 | 0.0 |
| 2 | 12/15 | 15/15 | 64 | 12/15 | 24/25 | 1.0 |
| 3 | 15/15 | 8/15 | 64 | 15/8 | 30/15 | 1.5 |
| 4 | 15/15 | 4/15 | 64 | 15/4 | 30/15 | 1.5 |

**For Release 6 HSPA Data Devices**

| Sub-test | $\beta_c$ | $\beta_d$ | $\beta_d$ （SF） | $\beta_c/\beta_d$ | $\beta_{hs}$ | $\beta_{ec}$ | $\beta_{ed}$ | $\beta_{ed}$ （SF） | $\beta_{ed}$ （codes） | CM (dB) | MPR (dB) | AG Index | E-TFCI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11/15 | 15/15 | 64 | 11/15 | 22/15 | 209/225 | 1039/225 | 4 | 1 | 1.5 | 1.5 | 20 | 75 |
| 2 | 6/15 | 15/15 | 64 | 6/15 | 12/15 | 12/15 | 12/15 | 4 | 1 | 1.5 | 1.5 | 12 | 67 |
| 3 | 15/15 | 9/15 | 64 | 15/9 | 30/15 | 30/15 | $\beta_{ed1}$:47/15<br>$\beta_{ed2}$:47/15 | 4 | 2 | 1.5 | 1.5 | 15 | 92 |
| 4 | 2/15 | 15/15 | 64 | 2/15 | 4/15 | 4/15 | 56/75 | 4 | 1 | 1.5 | 1.5 | 17 | 71 |
| 5 | 15/15 | 15/15 | 64 | 15/15 | 24/15 | 30/15 | 134/15 | 4 | 1 | 1.5 | 1.5 | 21 | 81 |

**Rel.8 DC-HSDPA (Cat 24)**

SAR test exclusion for Rel.8 DC-HSDPA must satisfy the SAR test exclusion requirements of Rel.5 HSDPA. SAR test exclusion for DC-HSDPA devices is determined by power measurements according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to qualify for SAR test exclusion.

## 9.4 SAR Measurement for LTE

SAR tests for LTE are performed with a base station simulator, Rohde & Rchwarz CMW500. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. All powers were measured with the CMW 500.
It is performed for conducted power and SAR based on the KDB941225 D05.
SAR is evaluated separately according to the following procedures for the different test positions in each exposure condition – head, body, body-worn accessories and other use conditions. The procedures in the following subsections are applied separately to test each LTE frequency band.

1) QPSK with 1 RB allocation
   Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.
2) QPSK with 50% RB allocation
   The procedures required for 1 RB allocation in 1) are applied to measure the SAR for QPSK with 50% RB allocation.
3) QPSK with 100% RB allocation
   For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 1) and 2) are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.

## TDD test:

TDD testing is performed using guidance from FCC KDB 941225 D05 and the SAR test guidance provided in April 2013 TCB works hop notes. TDD is tested at the highest duty factor using UL-DL configuration 0 with special subframe configuration 6 and applying the FDD LTE procedures in KDB 941225 D05. SAR testing is performed using the extended cyclic prefix listed in 3GPP TS 36.211.

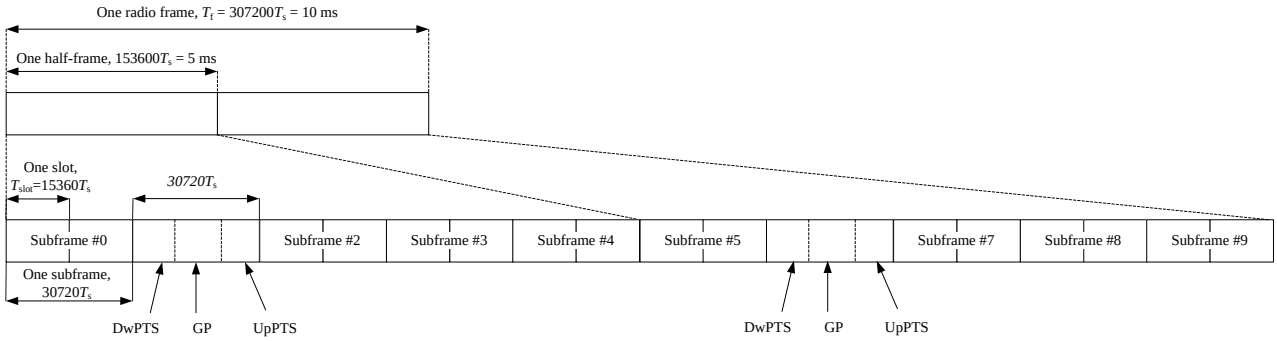



**Figure 9.2: Frame structure type 2 (for 5 ms switch-point periodicity)**

**Table 9.1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)**

| Special subframe configuration | Normal cyclic prefix in downlink | | | Extended cyclic prefix in downlink | | |
|---|---|---|---|---|---|---|
| | DwPTS | UpPTS | | DwPTS | UpPTS | |
| | | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink | | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |
| 0 | $6592\cdot T_s$ | $2192\cdot T_s$ | $2560\cdot T_s$ | $7680\cdot T_s$ | $2192\cdot T_s$ | $2560\cdot T_s$ |
| 1 | $19760\cdot T_s$ | | | $20480\cdot T_s$ | | |
| 2 | $21952\cdot T_s$ | | | $23040\cdot T_s$ | | |
| 3 | $24144\cdot T_s$ | | | $25600\cdot T_s$ | | |
| 4 | $26336\cdot T_s$ | | | $7680\cdot T_s$ | $4384\cdot T_s$ | $5120\cdot T_s$ |
| 5 | $6592\cdot T_s$ | $4384\cdot T_s$ | $5120\cdot T_s$ | $20480\cdot T_s$ | | |
| 6 | $19760\cdot T_s$ | | | $23040\cdot T_s$ | | |
| 7 | $21952\cdot T_s$ | | | $12800\cdot T_s$ | | |
| 8 | $24144\cdot T_s$ | | | - | - | - |
| 9 | $13168\cdot T_s$ | | | - | - | - |

**Table 9.2: Uplink-downlink configurations**

| Uplink-downlink configuration | Downlink-to-Uplink Switch-point periodicity | Subframe number | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0 | 5 ms | D | S | U | U | U | D | S | U | U | U |
| 1 | 5 ms | D | S | U | U | D | D | S | U | U | D |
| 2 | 5 ms | D | S | U | D | D | D | S | U | D | D |
| 3 | 10 ms | D | S | U | U | U | D | D | D | D | D |
| 4 | 10 ms | D | S | U | U | D | D | D | D | D | D |
| 5 | 10 ms | D | S | U | D | D | D | D | D | D | D |
| 6 | 5 ms | D | S | U | U | U | D | S | U | U | D |

Duty factor is calculated by:

Duty factor = uplink frame*6+UpPTS*2/one frame length

= (30720.$T_s$ * 6+5120. $T_s$*2)/307200.$T_s$

= 0.633

## 9.5 Bluetooth & Wi-Fi Measurement Procedures for SAR

Normal network operating configurations are not suitable for measuring the SAR of 802.11 transmitters in general. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure that the results are consistent and reliable.

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in a test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters. The test frequencies should correspond to actual channel frequencies defined for domestic use. SAR for devices with switched diversity should be measured with only one antenna transmitting at a time during each SAR measurement, according to a fixed modulation and data rate. The same data pattern should be used for all measurements.

## 9.6 NR Measurement Procedures for SAR

Due to test setup limitations, SAR testing for NR was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission.

## 9.7 Power Drift

To control the output power stability during the SAR test, DASY5 system calculates the power drift by measuring the E-field at the same location at the beginning and at the end of the measurement for each test position. These drift values can be found in section14 labeled as: (Power Drift [dB]). This ensures that the power drift during one measurement is within 5%.

# 10 Area Scan Based 1-g SAR

## 10.1 Requirement of KDB

According to the KDB447498 D01, when the implementation is based the specific polynomial fit algorithm as presented at the 29th Bioelectromagnetics Society meeting (2007) and the estimated 1-gSAR is ≤ 1.2 W/kg, a zoom scan measurement is not required provided it is also not needed for any other purpose; for example, if the peak SAR location required for simultaneous transmission SAR test exclusion can be determined accurately by the SAR system or manually to discriminate between distinctive peaks and scattered noisy SAR distributions from area scans.

There must not be any warning or alert messages due to various measurement concerns identified by the SAR system; for example, noise in measurements, peaks too close to scan boundary, peaks are too sharp, spatial resolution and uncertainty issues etc. The SAR system verification must also demonstrate that the area scan estimated 1-g SAR is within 3% of the zoom scan 1-g SAR. When all the SAR results for each exposure condition in a frequency band and wireless mode are based on estimated 1-g SAR, the 1-g SAR for the highest SAR configuration must be determined by a zoom scan.

## 10.2 Fast SAR Algorithms

The approach is based on the area scan measurement applying a frequency dependent attenuation parameter. This attenuation parameter was empirically determined by analyzing a large number of phones. The MOTOROLA FAST SAR was developed and validated by the MOTOROLA Research Group in Ft. Lauderdale.

In the initial study, an approximation algorithm based on Linear fit was developed. The accuracy of the algorithm has been demonstrated across a broad frequency range (136-2450 MHz)and for both 1- and 10-g averaged SAR using a sample of 264 SAR measurements from 55wireless handsets. For the sample size studied, the root-mean-squared errors of the algorithm mare 1.2% and 5.8% for 1- and 10-g averaged SAR, respectively. The paper describing the algorithm in detail is expected to be published in August 2004 within the Special Issue of Transactions on MTT.

In the second step, the same research group optimized the fitting algorithm to an Polynomial fit whereby the frequency validity was extended to cover the range 30-6000MHz. Details of this study can be found in the BEMS 2007 Proceedings.

Both algorithms are implemented in DASY software.

# 11 Conducted Output Power

| Receiver on (Standalone) | Receiver off+Hotspot on (Standalone) | Receiver off+ Hotspot off (Standalone) | Receiver on (ENDC) | Receiver off+Hotspot on (ENDC) | Receiver off+ Hotspot off (ENDC) |
|---|---|---|---|---|---|
| A | B | C | D | E | F |

## 11.1 WCDMA Measurement result

**WCDMA1900_A**

| Item | band | FDDII result | | | |
|---|---|---|---|---|---|
| | ARFCN | 9538 (1907.6MHz) | 9400 (1880MHz) | 9262 (1852.4MHz) | Tune up |
| WCDMA | \ | 22.84 | 22.81 | 22.85 | 24.00 |
| HSUPA | 1 | 21.65 | 21.68 | 21.69 | 22.50 |
| | 2 | 20.67 | 20.70 | 20.71 | 21.00 |
| | 3 | 21.68 | 21.71 | 21.72 | 22.00 |
| | 4 | 20.12 | 20.15 | 20.16 | 21.00 |
| | 5 | 21.71 | 21.74 | 21.75 | 23.00 |
| HSPA+ | \ | 21.67 | 21.64 | 21.71 | 23.00 |
| DC-HSDPA | 1 | 22.85 | 22.88 | 22.89 | 23.50 |
| | 2 | 22.84 | 22.87 | 22.88 | 23.50 |
| | 3 | 22.38 | 22.41 | 22.42 | 23.00 |
| | 4 | 22.32 | 22.35 | 22.36 | 23.00 |

**WCDMA1900_B/C**

| Item | band | FDDII result | | | |
|---|---|---|---|---|---|
| | ARFCN | 9538 (1907.6MHz) | 9400 (1880MHz) | 9262 (1852.4MHz) | Tune up |
| WCDMA | \ | 20.03 | 20.05 | 20.06 | 21.00 |
| HSUPA | 1 | 18.40 | 18.42 | 18.43 | 19.50 |
| | 2 | 17.56 | 17.59 | 17.60 | 18.00 |
| | 3 | 18.42 | 18.45 | 18.46 | 19.00 |
| | 4 | 17.10 | 17.12 | 17.13 | 18.00 |
| | 5 | 18.45 | 18.47 | 18.48 | 20.00 |
| HSPA+ | \ | 18.41 | 18.39 | 18.45 | 20.00 |
| DC-HSDPA | 1 | 19.42 | 19.44 | 19.45 | 20.50 |
| | 2 | 19.41 | 19.43 | 19.44 | 20.50 |
| | 3 | 19.02 | 19.04 | 19.05 | 20.00 |
| | 4 | 18.97 | 18.99 | 19.00 | 20.00 |

**WCDMA1700_A**

| Item | band | FDDIV result | | | |
|---|---|---|---|---|---|
| | ARFCN | 1513 (1752.6MHz) | 1412 (1732.4MHz) | 1312 (1712.4MHz) | Tune up |
| WCDMA | \ | 23.01 | 22.99 | 22.93 | 24.00 |
| HSUPA | 1 | 21.23 | 21.24 | 21.17 | 22.50 |
| | 2 | 20.73 | 20.75 | 20.68 | 21.00 |
| | 3 | 20.70 | 20.72 | 20.65 | 22.00 |
| | 4 | 20.18 | 20.20 | 20.13 | 21.00 |
| | 5 | 21.81 | 21.83 | 21.75 | 23.00 |
| HSPA+ | \ | 21.46 | 21.78 | 21.53 | 23.00 |
| DC-HSDPA | 1 | 22.92 | 22.94 | 22.86 | 23.50 |
| | 2 | 22.85 | 22.87 | 22.79 | 23.50 |
| | 3 | 22.44 | 22.46 | 22.38 | 23.00 |
| | 4 | 22.40 | 22.42 | 22.34 | 23.00 |

**WCDMA1700_B/C**

| Item | band | FDDIV result | | | |
|---|---|---|---|---|---|
| | ARFCN | 1513 (1752.6MHz) | 1412 (1732.4MHz) | 1312 (1712.4MHz) | Tune up |
| WCDMA | \ | 18.22 | 18.33 | 18.28 | 19.50 |
| HSUPA | 1 | 16.21 | 16.21 | 16.16 | 18.00 |
| | 2 | 15.82 | 15.84 | 15.79 | 16.50 |
| | 3 | 15.80 | 15.82 | 15.76 | 17.50 |
| | 4 | 15.40 | 15.42 | 15.37 | 16.50 |
| | 5 | 16.65 | 16.66 | 16.60 | 18.50 |
| HSPA+ | \ | 16.58 | 16.63 | 16.53 | 18.50 |
| DC-HSDPA | 1 | 17.50 | 17.51 | 17.45 | 19.00 |
| | 2 | 17.44 | 17.46 | 17.40 | 19.00 |
| | 3 | 17.13 | 17.14 | 17.08 | 18.50 |
| | 4 | 17.10 | 17.11 | 17.05 | 18.50 |

**WCDMA850_A/B/C**

| Item | band | FDDV result | | | |
|---|---|---|---|---|---|
| | ARFCN | 4233 (846.6MHz) | 4183 (836.6MHz) | 4132 (826.4MHz) | Tune up |
| WCDMA | \ | 23.18 | 23.21 | 23.17 | 24.00 |
| HSUPA | 1 | 21.57 | 21.61 | 21.58 | 22.50 |
| | 2 | 20.99 | 20.86 | 20.63 | 21.00 |
| | 3 | 21.04 | 21.08 | 21.05 | 22.00 |
| | 4 | 20.50 | 20.54 | 20.51 | 21.00 |
| | 5 | 22.07 | 22.11 | 22.08 | 23.00 |
| HSPA+ | \ | 21.73 | 21.93 | 21.87 | 23.00 |
| DC-HSDPA | 1 | 23.15 | 23.19 | 23.16 | 23.50 |
| | 2 | 23.07 | 23.11 | 23.08 | 23.50 |
| | 3 | 22.68 | 22.72 | 22.69 | 23.00 |
| | 4 | 22.64 | 22.68 | 22.65 | 23.00 |

## 11.2 LTE Measurement result

### Maximum Target Power for Production Unit

| Band | ANT | Tune up (dBm) | | | | | |
|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F |
| Band 2 | 1 | 24.5 | 21.5 | 21.5 | 24.5 | 20 | 20 |
| Band 2 | 5 | / | / | / | 15 | 19 | 21 |
| Band 4 | 1 | 24.5 | 19.5 | 19.5 | / | / | / |
| Band 4 | 5 | / | / | / | 15.5 | 21 | 23 |
| Band 5 | 1 | 25 | 25 | 25 | 25 | 25 | 25 |
| Band 12 | 1 | 25 | 25 | 25 | 25 | 25 | 25 |
| Band 13 | 1 | 25 | 25 | 25 | 25 | 25 | 25 |
| Band 66 | 1 | 24.5 | 19.5 | 19.5 | 24.5 | 17.5 | 17.5 |
| Band 66 | 5 | / | / | / | 15.5 | 21 | 23 |

### Maximum Power Reduction (MPR) for LTE

| Modulation | 1.4 MHz | MPR | 3 MHz | MPR | 5 MHz | MPR | 10 MHz | MPR | 15 MHz | MPR | 20 MHz | MPR (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QPSK | ≤ 5 | **0** | ≤ 4 | **0** | ≤ 8 | **0** | ≤ 12 | **0** | ≤ 16 | **0** | ≤ 18 | **0** |
| QPSK | > 5 | 1 | > 4 | 1 | > 8 | 1 | > 12 | 1 | > 16 | 1 | > 18 | 1 |
| 16 QAM | ≤ 5 | 1 | ≤ 4 | 1 | ≤ 8 | 1 | ≤ 12 | 1 | ≤ 16 | 1 | ≤ 18 | 1 |
| 16 QAM | > 5 | 2 | > 4 | 2 | > 8 | 2 | > 12 | 2 | > 16 | 2 | > 18 | 2 |
| 64 QAM | ≤ 5 | 2 | ≤ 4 | 2 | ≤ 8 | 2 | ≤ 12 | 2 | ≤ 16 | 2 | ≤ 18 | 2 |
| 64 QAM | > 5 | 3 | > 4 | 3 | > 8 | 3 | > 12 | 3 | > 16 | 3 | > 18 | 3 |
| 256 QAM | ≤ 5 | 5 | ≤ 4 | 5 | ≤ 8 | 5 | ≤ 12 | 5 | ≤ 16 | 5 | ≤ 18 | 5 |
| 256 QAM | > 5 | 5 | > 4 | 5 | > 8 | 5 | > 12 | 5 | > 16 | 5 | > 18 | 5 |

**LTE Band2 ANT1_A/D**

| BANDWIDTH | Number of RBs | Frequency | QPSK | 16QAM | 64QAM | 256AM |
|---|---|---|---|---|---|---|
| 1.4MHz | 1RB-High (5) | 1909.3 (19193) | 23.00 | 22.29 | 21.20 | 18.28 |
| | | 1880 (18900) | 23.09 | 22.33 | 21.29 | 18.00 |
| | | 1850.7 (18607) | 23.15 | 22.31 | 21.21 | 18.37 |
| | 1RB-Middle (3) | 1909.3 (19193) | 22.96 | 22.32 | 21.15 | 18.40 |
| | | 1880 (18900) | 23.05 | 22.37 | 21.19 | 18.04 |
| | | 1850.7 (18607) | 23.19 | 22.32 | 21.30 | 18.01 |
| | 1RB-Low (0) | 1909.3 (19193) | 23.08 | 22.32 | 21.24 | 18.26 |
| | | 1880 (18900) | 23.10 | 22.31 | 21.25 | 17.98 |
| | | 1850.7 (18607) | 23.16 | 22.30 | 21.13 | 18.37 |
| | 3RB-High (3) | 1909.3 (19193) | 22.99 | 22.19 | 21.06 | 18.29 |
| | | 1880 (18900) | 23.09 | 22.11 | 21.12 | 18.34 |
| | | 1850.7 (18607) | 23.09 | 22.01 | 21.14 | 18.03 |
| | 3RB-Middle (1) | 1909.3 (19193) | 23.15 | 22.13 | 21.20 | 17.98 |
| | | 1880 (18900) | 23.05 | 21.97 | 21.13 | 17.99 |
| | | 1850.7 (18607) | 23.04 | 21.98 | 21.07 | 18.19 |
| | 3RB-Low (0) | 1909.3 (19193) | 23.12 | 21.98 | 21.09 | 18.14 |
| | | 1880 (18900) | 23.11 | 22.04 | 21.12 | 18.34 |
| | | 1850.7 (18607) | 23.03 | 21.99 | 21.08 | 18.14 |
| | 6RB (0) | 1909.3 (19193) | 22.08 | 21.19 | 20.04 | 18.16 |
| | | 1880 (18900) | 22.09 | 21.18 | 19.95 | 18.04 |
| | | 1850.7 (18607) | 22.06 | 21.13 | 20.01 | 18.13 |
| | | | | | | |
| 3MHz | 1RB-High (14) | 1908.5 (19185) | 23.10 | 22.40 | 21.23 | 18.22 |
| | | 1880 (18900) | 23.11 | 22.35 | 21.21 | 17.99 |
| | | 1851.5 (18615) | 22.98 | 22.39 | 21.17 | 18.37 |
| | 1RB-Middle (7) | 1908.5 (19185) | 23.07 | 22.44 | 21.27 | 18.34 |
| | | 1880 (18900) | 23.11 | 22.28 | 21.33 | 18.34 |
| | | 1851.5 (18615) | 23.04 | 22.27 | 21.25 | 18.01 |
| | 1RB-Low (0) | 1908.5 (19185) | 23.03 | 22.40 | 21.18 | 18.30 |
| | | 1880 (18900) | 23.09 | 22.34 | 21.30 | 17.96 |
| | | 1851.5 (18615) | 23.00 | 22.33 | 21.17 | 18.40 |
| | 8RB-High (7) | 1908.5 (19185) | 22.10 | 21.12 | 20.09 | 18.16 |
| | | 1880 (18900) | 22.04 | 21.11 | 20.11 | 18.39 |
| | | 1851.5 (18615) | 22.02 | 21.06 | 20.11 | 18.19 |
| | 8RB-Middle (4) | 1908.5 (19185) | 22.06 | 21.13 | 20.08 | 18.07 |
| | | 1880 (18900) | 22.10 | 21.15 | 20.13 | 18.09 |
| | | 1851.5 (18615) | 22.06 | 21.13 | 20.07 | 18.19 |
| | 8RB-Low (0) | 1908.5 (19185) | 22.09 | 21.17 | 20.15 | 18.27 |
| | | 1880 (18900) | 22.08 | 21.12 | 20.13 | 18.39 |
| | | 1851.5 (18615) | 22.05 | 21.08 | 20.13 | 18.41 |
| | 15RB (0) | 1908.5 (19185) | 22.06 | 21.06 | 20.03 | 18.06 |
| | | 1880 (18900) | 22.05 | 21.05 | 19.97 | 18.04 |
| | | 1851.5 (18615) | 22.01 | 21.04 | 19.98 | 18.20 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 1907.5 (19175) | 23.10 | 22.28 | 21.28 | 18.41 |
| | | 1880 (18900) | 23.09 | 22.30 | 21.15 | 18.40 |
| | | 1852.5 (18625) | 23.13 | 22.40 | 21.22 | 18.56 |
| | 1RB-Middle (12) | 1907.5 (19175) | 23.10 | 22.36 | 21.27 | 18.09 |
| | | 1880 (18900) | 23.11 | 22.31 | 21.29 | 18.12 |
| | | 1852.5 (18625) | 23.10 | 22.38 | 21.24 | 18.42 |
| | 1RB-Low (0) | 1907.5 (19175) | 23.10 | 22.30 | 21.30 | 18.44 |
| | | 1880 (18900) | 23.12 | 22.26 | 21.24 | 18.36 |
| | | 1852.5 (18625) | 23.12 | 22.38 | 21.24 | 18.61 |
| | 12RB-High (13) | 1907.5 (19175) | 22.14 | 21.08 | 20.16 | 18.11 |
| | | 1880 (18900) | 22.11 | 21.07 | 20.12 | 18.26 |
| | | 1852.5 (18625) | 22.09 | 21.05 | 20.12 | 18.00 |
| | 12RB-Middle (6) | 1907.5 (19175) | 22.14 | 21.05 | 20.17 | 18.15 |
| | | 1880 (18900) | 22.15 | 21.12 | 20.10 | 18.11 |
| | | 1852.5 (18625) | 22.11 | 21.10 | 20.13 | 18.23 |
| | 12RB-Low (0) | 1907.5 (19175) | 22.18 | 21.12 | 20.15 | 18.23 |
| | | 1880 (18900) | 22.13 | 21.13 | 20.14 | 18.34 |
| | | 1852.5 (18625) | 22.11 | 21.11 | 20.10 | 18.26 |
| | 25RB (0) | 1907.5 (19175) | 22.16 | 21.10 | 20.10 | 18.13 |
| | | 1880 (18900) | 22.12 | 21.12 | 20.08 | 18.13 |
| | | 1852.5 (18625) | 22.10 | 21.08 | 20.08 | 18.23 |
| | | | | | | |
| 10MHz | 1RB-High (49) | 1905 (19150) | 23.11 | 22.31 | 21.23 | 18.31 |
| | | 1880 (18900) | 23.00 | 22.29 | 21.14 | 18.12 |
| | | 1855 (18650) | 23.12 | 22.30 | 21.16 | 18.33 |
| | 1RB-Middle (24) | 1905 (19150) | 23.04 | 22.36 | 21.21 | 18.33 |
| | | 1880 (18900) | 23.11 | 22.39 | 21.32 | 18.33 |
| | | 1855 (18650) | 23.08 | 22.26 | 21.14 | 18.15 |
| | 1RB-Low (0) | 1905 (19150) | 23.11 | 22.35 | 21.28 | 18.38 |
| | | 1880 (18900) | 23.12 | 22.42 | 21.34 | 18.00 |
| | | 1855 (18650) | 23.09 | 22.42 | 21.23 | 18.44 |
| | 25RB-High (25) | 1905 (19150) | 22.11 | 21.11 | 20.09 | 18.08 |
| | | 1880 (18900) | 22.13 | 21.12 | 20.09 | 18.35 |
| | | 1855 (18650) | 22.05 | 21.08 | 20.07 | 18.36 |
| | 25RB-Middle (12) | 1905 (19150) | 22.12 | 21.11 | 20.09 | 18.16 |
| | | 1880 (18900) | 22.12 | 21.06 | 20.11 | 18.15 |
| | | 1855 (18650) | 22.08 | 21.07 | 20.09 | 18.17 |
| | 25RB-Low (0) | 1905 (19150) | 22.10 | 21.10 | 20.10 | 18.31 |
| | | 1880 (18900) | 22.08 | 21.07 | 20.08 | 18.35 |
| | | 1855 (18650) | 22.09 | 21.07 | 20.07 | 18.11 |
| | 50RB (0) | 1905 (19150) | 22.10 | 21.13 | 20.14 | 18.12 |
| | | 1880 (18900) | 22.10 | 21.06 | 20.08 | 18.10 |
| | | 1855 (18650) | 22.07 | 21.07 | 20.05 | 18.20 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 1902.5 (19125) | 23.13 | 22.41 | 21.30 | 18.48 |
| | | 1880 (18900) | 23.08 | 22.34 | 21.24 | 18.09 |
| | | 1857.5 (18675) | 23.10 | 22.35 | 21.22 | 18.25 |
| | 1RB-Middle (37) | 1902.5 (19125) | 23.16 | 22.35 | 21.31 | 18.16 |
| | | 1880 (18900) | 23.14 | 22.40 | 21.27 | 18.11 |
| | | 1857.5 (18675) | 23.12 | 22.39 | 21.22 | 18.37 |
| | 1RB-Low (0) | 1902.5 (19125) | 23.14 | 22.39 | 21.31 | 18.57 |
| | | 1880 (18900) | 23.14 | 22.24 | 21.22 | 17.92 |
| | | 1857.5 (18675) | 23.16 | 22.39 | 21.23 | 18.40 |
| | 36RB-High (38) | 1902.5 (19125) | 22.09 | 21.07 | 20.09 | 18.32 |
| | | 1880 (18900) | 22.11 | 21.08 | 20.09 | 18.00 |
| | | 1857.5 (18675) | 22.07 | 21.04 | 20.06 | 18.38 |
| | 36RB-Middle (19) | 1902.5 (19125) | 22.10 | 21.06 | 20.11 | 18.18 |
| | | 1880 (18900) | 22.07 | 21.07 | 20.05 | 18.14 |
| | | 1857.5 (18675) | 22.06 | 21.03 | 20.05 | 18.18 |
| | 36RB-Low (0) | 1902.5 (19125) | 22.10 | 21.07 | 20.09 | 18.21 |
| | | 1880 (18900) | 22.10 | 21.06 | 20.09 | 18.31 |
| | | 1857.5 (18675) | 22.15 | 21.09 | 20.09 | 18.36 |
| | 75RB (0) | 1902.5 (19125) | 22.13 | 21.07 | 20.10 | 18.21 |
| | | 1880 (18900) | 22.09 | 21.09 | 20.07 | 18.13 |
| | | 1857.5 (18675) | 22.06 | 21.09 | 20.06 | 18.20 |
| | | | | | | |
| 20MHz | 1RB-High (99) | 1900 (19100) | 23.18 | 22.40 | 21.20 | 18.69 |
| | | 1880 (18900) | 23.20 | 22.41 | 21.27 | 18.47 |
| | | 1860 (18700) | 23.14 | 22.32 | 21.25 | 18.31 |
| | 1RB-Middle (50) | 1900 (19100) | 23.11 | 22.43 | 21.32 | 18.37 |
| | | 1880 (18900) | 23.15 | 22.36 | 21.30 | 18.15 |
| | | 1860 (18700) | 23.13 | 22.35 | 21.23 | 18.01 |
| | 1RB-Low (0) | 1900 (19100) | 23.19 | 22.49 | 21.27 | 18.77 |
| | | 1880 (18900) | 23.14 | 22.35 | 21.30 | 18.26 |
| | | 1860 (18700) | 23.11 | 22.24 | 21.23 | 18.43 |
| | 50RB-High (50) | 1900 (19100) | 22.18 | 21.19 | 20.17 | 18.17 |
| | | 1880 (18900) | 22.15 | 21.18 | 20.18 | 18.44 |
| | | 1860 (18700) | 22.09 | 21.09 | 20.09 | 18.43 |
| | 50RB-Middle (25) | 1900 (19100) | 22.14 | 21.16 | 20.14 | 18.25 |
| | | 1880 (18900) | 22.10 | 21.13 | 20.13 | 18.20 |
| | | 1860 (18700) | 22.11 | 21.13 | 20.12 | 18.15 |
| | 50RB-Low (0) | 1900 (19100) | 22.15 | 21.16 | 20.11 | 18.06 |
| | | 1880 (18900) | 22.12 | 21.08 | 20.13 | 18.24 |
| | | 1860 (18700) | 22.14 | 21.14 | 20.15 | 18.06 |
| | 100RB (0) | 1900 (19100) | 22.18 | 21.14 | 20.13 | 18.26 |
| | | 1880 (18900) | 22.16 | 21.12 | 20.07 | 18.19 |
| | | 1860 (18700) | 22.10 | 21.11 | 20.11 | 18.16 |

**LTE Band2 ANT1_B/C**

| BANDWIDTH | Number of RBs | Frequency | QPSK | 16QAM | 64QAM | 256AM |
|---|---|---|---|---|---|---|
| 1.4MHz | 1RB-High (5) | 1909.3 (19193) | 20.24 | 20.52 | 20.43 | 18.25 |
| | | 1880 (18900) | 20.30 | 20.62 | 20.58 | 18.28 |
| | | 1850.7 (18607) | 20.23 | 20.58 | 20.41 | 17.99 |
| | 1RB-Middle (3) | 1909.3 (19193) | 20.22 | 20.59 | 20.45 | 18.45 |
| | | 1880 (18900) | 20.24 | 20.61 | 20.45 | 18.05 |
| | | 1850.7 (18607) | 20.20 | 20.52 | 20.52 | 18.39 |
| | 1RB-Low (0) | 1909.3 (19193) | 20.26 | 20.58 | 20.55 | 17.94 |
| | | 1880 (18900) | 20.28 | 20.66 | 20.60 | 18.34 |
| | | 1850.7 (18607) | 20.23 | 20.50 | 20.37 | 18.42 |
| | 3RB-High (3) | 1909.3 (19193) | 20.31 | 20.21 | 20.40 | 18.08 |
| | | 1880 (18900) | 20.22 | 20.20 | 20.36 | 18.40 |
| | | 1850.7 (18607) | 20.20 | 20.19 | 20.28 | 18.03 |
| | 3RB-Middle (1) | 1909.3 (19193) | 20.33 | 20.27 | 20.34 | 18.13 |
| | | 1880 (18900) | 20.21 | 20.22 | 20.31 | 18.14 |
| | | 1850.7 (18607) | 20.20 | 20.11 | 20.27 | 18.40 |
| | 3RB-Low (0) | 1909.3 (19193) | 20.25 | 20.34 | 20.41 | 18.45 |
| | | 1880 (18900) | 20.30 | 20.21 | 20.36 | 17.99 |
| | | 1850.7 (18607) | 20.24 | 20.21 | 20.30 | 17.97 |
| | 6RB (0) | 1909.3 (19193) | 20.28 | 20.44 | 20.22 | 18.39 |
| | | 1880 (18900) | 20.26 | 20.31 | 20.24 | 18.04 |
| | | 1850.7 (18607) | 20.20 | 20.30 | 20.19 | 18.33 |
| | | | | | | |
| 3MHz | 1RB-High (14) | 1908.5 (19185) | 20.27 | 20.51 | 20.42 | 18.37 |
| | | 1880 (18900) | 20.25 | 20.59 | 20.41 | 18.27 |
| | | 1851.5 (18615) | 20.20 | 20.44 | 20.42 | 18.06 |
| | 1RB-Middle (7) | 1908.5 (19185) | 20.29 | 20.51 | 20.64 | 18.44 |
| | | 1880 (18900) | 20.21 | 20.73 | 20.50 | 18.39 |
| | | 1851.5 (18615) | 20.17 | 20.62 | 20.39 | 18.10 |
| | 1RB-Low (0) | 1908.5 (19185) | 20.26 | 20.59 | 20.43 | 17.97 |
| | | 1880 (18900) | 20.22 | 20.65 | 20.48 | 18.27 |
| | | 1851.5 (18615) | 20.23 | 20.41 | 20.43 | 18.37 |
| | 8RB-High (7) | 1908.5 (19185) | 20.31 | 20.33 | 20.34 | 18.10 |
| | | 1880 (18900) | 20.29 | 20.35 | 20.35 | 18.17 |
| | | 1851.5 (18615) | 20.20 | 20.29 | 20.27 | 18.25 |
| | 8RB-Middle (4) | 1908.5 (19185) | 20.30 | 20.38 | 20.37 | 18.05 |
| | | 1880 (18900) | 20.27 | 20.30 | 20.32 | 18.10 |
| | | 1851.5 (18615) | 20.19 | 20.24 | 20.30 | 18.06 |
| | 8RB-Low (0) | 1908.5 (19185) | 20.26 | 20.39 | 20.35 | 18.09 |
| | | 1880 (18900) | 20.32 | 20.32 | 20.34 | 18.18 |
| | | 1851.5 (18615) | 20.18 | 20.31 | 20.27 | 18.39 |
| | 15RB (0) | 1908.5 (19185) | 20.29 | 20.30 | 20.29 | 18.45 |
| | | 1880 (18900) | 20.29 | 20.28 | 20.32 | 18.44 |
| | | 1851.5 (18615) | 20.17 | 20.23 | 20.18 | 18.02 |

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|---|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 1907.5 (19175) | 20.32 | 20.53 | 20.46 | 17.92 |
| | | 1880 (18900) | 20.35 | 20.69 | 20.65 | 18.40 |
| | | 1852.5 (18625) | 20.22 | 20.50 | 20.53 | 18.12 |
| | 1RB-Middle (12) | 1907.5 (19175) | 20.29 | 20.56 | 20.49 | 18.12 |
| | | 1880 (18900) | 20.39 | 20.71 | 20.46 | 17.90 |
| | | 1852.5 (18625) | 20.28 | 20.59 | 20.56 | 18.43 |
| | 1RB-Low (0) | 1907.5 (19175) | 20.35 | 20.47 | 20.45 | 17.92 |
| | | 1880 (18900) | 20.36 | 20.63 | 20.45 | 18.24 |
| | | 1852.5 (18625) | 20.27 | 20.64 | 20.47 | 17.97 |
| | 12RB-High (13) | 1907.5 (19175) | 20.35 | 20.39 | 20.40 | 18.33 |
| | | 1880 (18900) | 20.36 | 20.37 | 20.37 | 18.15 |
| | | 1852.5 (18625) | 20.27 | 20.27 | 20.31 | 17.94 |
| | 12RB-Middle (6) | 1907.5 (19175) | 20.35 | 20.33 | 20.40 | 18.04 |
| | | 1880 (18900) | 20.33 | 20.31 | 20.32 | 18.38 |
| | | 1852.5 (18625) | 20.29 | 20.29 | 20.28 | 18.00 |
| | 12RB-Low (0) | 1907.5 (19175) | 20.32 | 20.36 | 20.40 | 18.40 |
| | | 1880 (18900) | 20.30 | 20.29 | 20.35 | 18.41 |
| | | 1852.5 (18625) | 20.26 | 20.30 | 20.29 | 18.11 |
| | 25RB (0) | 1907.5 (19175) | 20.38 | 20.38 | 20.33 | 18.40 |
| | | 1880 (18900) | 20.37 | 20.35 | 20.32 | 18.39 |
| | | 1852.5 (18625) | 20.29 | 20.30 | 20.27 | 17.91 |
| | | | | | | |
| 10MHz | 1RB-High (49) | 1905 (19150) | 20.35 | 20.68 | 20.53 | 18.29 |
| | | 1880 (18900) | 20.35 | 20.68 | 20.61 | 18.29 |
| | | 1855 (18650) | 20.33 | 20.65 | 20.47 | 18.00 |
| | 1RB-Middle (24) | 1905 (19150) | 20.31 | 20.69 | 20.56 | 18.06 |
| | | 1880 (18900) | 20.35 | 20.62 | 20.59 | 18.28 |
| | | 1855 (18650) | 20.25 | 20.51 | 20.41 | 18.30 |
| | 1RB-Low (0) | 1905 (19150) | 20.33 | 20.53 | 20.55 | 18.36 |
| | | 1880 (18900) | 20.34 | 20.78 | 20.56 | 18.11 |
| | | 1855 (18650) | 20.30 | 20.66 | 20.44 | 17.91 |
| | 25RB-High (25) | 1905 (19150) | 20.37 | 20.37 | 20.37 | 18.39 |
| | | 1880 (18900) | 20.36 | 20.35 | 20.35 | 18.18 |
| | | 1855 (18650) | 20.24 | 20.23 | 20.22 | 18.10 |
| | 25RB-Middle (12) | 1905 (19150) | 20.31 | 20.36 | 20.32 | 18.04 |
| | | 1880 (18900) | 20.33 | 20.28 | 20.29 | 18.24 |
| | | 1855 (18650) | 20.24 | 20.24 | 20.19 | 18.11 |
| | 25RB-Low (0) | 1905 (19150) | 20.35 | 20.32 | 20.31 | 18.39 |
| | | 1880 (18900) | 20.31 | 20.32 | 20.30 | 18.31 |
| | | 1855 (18650) | 20.26 | 20.25 | 20.25 | 18.15 |
| | 50RB (0) | 1905 (19150) | 20.36 | 20.38 | 20.34 | 18.30 |
| | | 1880 (18900) | 20.34 | 20.34 | 20.31 | 18.06 |
| | | 1855 (18650) | 20.25 | 20.26 | 20.24 | 18.36 |

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|---|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 1902.5 (19125) | 20.42 | 20.77 | 20.55 | 18.19 |
| | | 1880 (18900) | 20.44 | 20.64 | 20.56 | 18.18 |
| | | 1857.5 (18675) | 20.40 | 20.72 | 20.55 | 18.06 |
| | 1RB-Middle (37) | 1902.5 (19125) | 20.34 | 20.71 | 20.53 | 17.91 |
| | | 1880 (18900) | 20.33 | 20.67 | 20.49 | 18.26 |
| | | 1857.5 (18675) | 20.34 | 20.68 | 20.41 | 18.04 |
| | 1RB-Low (0) | 1902.5 (19125) | 20.37 | 20.71 | 20.57 | 18.04 |
| | | 1880 (18900) | 20.42 | 20.67 | 20.58 | 18.40 |
| | | 1857.5 (18675) | 20.38 | 20.54 | 20.49 | 18.22 |
| | 36RB-High (38) | 1902.5 (19125) | 20.40 | 20.40 | 20.40 | 18.44 |
| | | 1880 (18900) | 20.41 | 20.41 | 20.41 | 18.18 |
| | | 1857.5 (18675) | 20.26 | 20.26 | 20.29 | 18.24 |
| | 36RB-Middle (19) | 1902.5 (19125) | 20.33 | 20.34 | 20.36 | 17.93 |
| | | 1880 (18900) | 20.33 | 20.36 | 20.38 | 18.10 |
| | | 1857.5 (18675) | 20.29 | 20.29 | 20.33 | 18.19 |
| | 36RB-Low (0) | 1902.5 (19125) | 20.37 | 20.38 | 20.36 | 18.09 |
| | | 1880 (18900) | 20.33 | 20.35 | 20.36 | 18.15 |
| | | 1857.5 (18675) | 20.34 | 20.33 | 20.34 | 18.29 |
| | 75RB (0) | 1902.5 (19125) | 20.39 | 20.40 | 20.38 | 18.44 |
| | | 1880 (18900) | 20.39 | 20.39 | 20.35 | 18.13 |
| | | 1857.5 (18675) | 20.33 | 20.35 | 20.32 | 18.41 |
| | | | | | | |
| 20MHz | 1RB-High (99) | 1900 (19100) | 20.47 | 20.71 | 20.61 | 18.01 |
| | | 1880 (18900) | 20.49 | 20.64 | 20.57 | 17.91 |
| | | 1860 (18700) | 20.41 | 20.78 | 20.53 | 18.39 |
| | 1RB-Middle (50) | 1900 (19100) | 20.39 | 20.78 | 20.60 | 18.41 |
| | | 1880 (18900) | 20.40 | 20.62 | 20.48 | 18.05 |
| | | 1860 (18700) | 20.40 | 20.62 | 20.53 | 18.39 |
| | 1RB-Low (0) | 1900 (19100) | 20.47 | 20.67 | 20.61 | 18.08 |
| | | 1880 (18900) | 20.44 | 20.76 | 20.58 | 18.31 |
| | | 1860 (18700) | 20.39 | 20.83 | 20.51 | 18.35 |
| | 50RB-High (50) | 1900 (19100) | 20.49 | 20.47 | 20.42 | 18.42 |
| | | 1880 (18900) | 20.50 | 20.48 | 20.46 | 18.02 |
| | | 1860 (18700) | 20.45 | 20.35 | 20.35 | 17.99 |
| | 50RB-Middle (25) | 1900 (19100) | 20.43 | 20.41 | 20.41 | 17.92 |
| | | 1880 (18900) | 20.45 | 20.38 | 20.41 | 17.97 |
| | | 1860 (18700) | 20.38 | 20.37 | 20.38 | 18.45 |
| | 50RB-Low (0) | 1900 (19100) | 20.43 | 20.45 | 20.42 | 17.97 |
| | | 1880 (18900) | 20.41 | 20.40 | 20.37 | 18.24 |
| | | 1860 (18700) | 20.42 | 20.39 | 20.37 | 18.11 |
| | 100RB (0) | 1900 (19100) | 20.43 | 20.44 | 20.41 | 18.38 |
| | | 1880 (18900) | 20.45 | 20.41 | 20.40 | 17.91 |
| | | 1860 (18700) | 20.37 | 20.37 | 20.34 | 18.20 |

**LTE Band2 ANT1_E/F**

| BANDWIDTH | Number of RBs | Frequency | QPSK | 16QAM | 64QAM | 256AM |
|---|---|---|---|---|---|---|
| 1.4MHz | 1RB-High (5) | 1909.3 (19193) | 19.23 | 19.32 | 19.36 | 18.22 |
| | | 1880 (18900) | 19.29 | 19.41 | 19.50 | 18.22 |
| | | 1850.7 (18607) | 19.22 | 19.37 | 19.34 | 17.92 |
| | 1RB-Middle (3) | 1909.3 (19193) | 19.21 | 19.38 | 19.38 | 18.42 |
| | | 1880 (18900) | 19.23 | 19.40 | 19.38 | 18.29 |
| | | 1850.7 (18607) | 19.19 | 19.32 | 19.45 | 18.12 |
| | 1RB-Low (0) | 1909.3 (19193) | 19.25 | 19.37 | 19.48 | 18.11 |
| | | 1880 (18900) | 19.27 | 19.45 | 19.52 | 18.31 |
| | | 1850.7 (18607) | 19.22 | 19.30 | 19.31 | 18.15 |
| | 3RB-High (3) | 1909.3 (19193) | 19.29 | 19.02 | 19.33 | 18.05 |
| | | 1880 (18900) | 19.21 | 19.01 | 19.30 | 18.01 |
| | | 1850.7 (18607) | 19.19 | 19.01 | 19.22 | 18.05 |
| | 3RB-Middle (1) | 1909.3 (19193) | 19.31 | 19.08 | 19.28 | 18.17 |
| | | 1880 (18900) | 19.20 | 19.03 | 19.25 | 18.07 |
| | | 1850.7 (18607) | 19.19 | 18.93 | 19.21 | 18.14 |
| | 3RB-Low (0) | 1909.3 (19193) | 19.24 | 19.15 | 19.34 | 18.30 |
| | | 1880 (18900) | 19.29 | 19.02 | 19.30 | 18.09 |
| | | 1850.7 (18607) | 19.23 | 19.02 | 19.24 | 17.92 |
| | 6RB (0) | 1909.3 (19193) | 19.27 | 19.24 | 19.16 | 18.18 |
| | | 1880 (18900) | 19.25 | 19.12 | 19.18 | 17.91 |
| | | 1850.7 (18607) | 19.19 | 19.11 | 19.14 | 17.96 |
| | | | | | | |
| 3MHz | 1RB-High (14) | 1908.5 (19185) | 19.26 | 19.31 | 19.35 | 18.26 |
| | | 1880 (18900) | 19.24 | 19.38 | 19.34 | 18.37 |
| | | 1851.5 (18615) | 19.19 | 19.24 | 19.35 | 18.44 |
| | 1RB-Middle (7) | 1908.5 (19185) | 19.28 | 19.31 | 19.56 | 18.30 |
| | | 1880 (18900) | 19.20 | 19.51 | 19.43 | 18.05 |
| | | 1851.5 (18615) | 19.16 | 19.41 | 19.32 | 17.90 |
| | 1RB-Low (0) | 1908.5 (19185) | 19.25 | 19.38 | 19.36 | 18.06 |
| | | 1880 (18900) | 19.21 | 19.44 | 19.41 | 18.14 |
| | | 1851.5 (18615) | 19.22 | 19.21 | 19.36 | 17.92 |
| | 8RB-High (7) | 1908.5 (19185) | 19.29 | 19.14 | 19.28 | 17.99 |
| | | 1880 (18900) | 19.28 | 19.16 | 19.29 | 18.04 |
| | | 1851.5 (18615) | 19.19 | 19.10 | 19.21 | 18.39 |
| | 8RB-Middle (4) | 1908.5 (19185) | 19.29 | 19.18 | 19.31 | 18.18 |
| | | 1880 (18900) | 19.26 | 19.11 | 19.26 | 18.28 |
| | | 1851.5 (18615) | 19.18 | 19.05 | 19.24 | 18.15 |
| | 8RB-Low (0) | 1908.5 (19185) | 19.25 | 19.19 | 19.29 | 17.90 |
| | | 1880 (18900) | 19.30 | 19.13 | 19.28 | 18.06 |
| | | 1851.5 (18615) | 19.17 | 19.12 | 19.21 | 18.30 |
| | 15RB (0) | 1908.5 (19185) | 19.28 | 19.11 | 19.23 | 18.33 |
| | | 1880 (18900) | 19.28 | 19.09 | 19.26 | 17.93 |
| | | 1851.5 (18615) | 19.16 | 19.04 | 19.13 | 18.17 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 1907.5 (19175) | 19.30 | 19.33 | 19.39 | 18.18 |
| | | 1880 (18900) | 19.33 | 19.48 | 19.57 | 17.94 |
| | | 1852.5 (18625) | 19.21 | 19.30 | 19.46 | 18.05 |
| | 1RB-Middle (12) | 1907.5 (19175) | 19.28 | 19.35 | 19.42 | 18.19 |
| | | 1880 (18900) | 19.37 | 19.49 | 19.39 | 18.13 |
| | | 1852.5 (18625) | 19.27 | 19.38 | 19.49 | 17.94 |
| | 1RB-Low (0) | 1907.5 (19175) | 19.33 | 19.27 | 19.38 | 18.37 |
| | | 1880 (18900) | 19.34 | 19.42 | 19.38 | 17.94 |
| | | 1852.5 (18625) | 19.26 | 19.43 | 19.40 | 18.33 |
| | 12RB-High (13) | 1907.5 (19175) | 19.33 | 19.19 | 19.33 | 18.29 |
| | | 1880 (18900) | 19.34 | 19.17 | 19.31 | 18.41 |
| | | 1852.5 (18625) | 19.26 | 19.08 | 19.25 | 17.92 |
| | 12RB-Middle (6) | 1907.5 (19175) | 19.33 | 19.14 | 19.33 | 18.15 |
| | | 1880 (18900) | 19.31 | 19.12 | 19.26 | 17.95 |
| | | 1852.5 (18625) | 19.28 | 19.10 | 19.22 | 18.21 |
| | 12RB-Low (0) | 1907.5 (19175) | 19.30 | 19.17 | 19.33 | 18.17 |
| | | 1880 (18900) | 19.29 | 19.10 | 19.29 | 18.40 |
| | | 1852.5 (18625) | 19.25 | 19.11 | 19.23 | 18.35 |
| | 25RB (0) | 1907.5 (19175) | 19.36 | 19.18 | 19.27 | 18.26 |
| | | 1880 (18900) | 19.35 | 19.16 | 19.26 | 17.92 |
| | | 1852.5 (18625) | 19.28 | 19.11 | 19.21 | 18.10 |
| | | | | | | |
| 10MHz | 1RB-High (49) | 1905 (19150) | 19.33 | 19.47 | 19.46 | 18.39 |
| | | 1880 (18900) | 19.33 | 19.47 | 19.53 | 18.20 |
| | | 1855 (18650) | 19.31 | 19.44 | 19.40 | 17.99 |
| | 1RB-Middle (24) | 1905 (19150) | 19.29 | 19.48 | 19.49 | 18.18 |
| | | 1880 (18900) | 19.33 | 19.41 | 19.51 | 18.00 |
| | | 1855 (18650) | 19.24 | 19.31 | 19.34 | 17.97 |
| | 1RB-Low (0) | 1905 (19150) | 19.31 | 19.33 | 19.48 | 18.45 |
| | | 1880 (18900) | 19.32 | 19.56 | 19.49 | 18.01 |
| | | 1855 (18650) | 19.29 | 19.45 | 19.37 | 18.08 |
| | 25RB-High (25) | 1905 (19150) | 19.35 | 19.17 | 19.31 | 17.93 |
| | | 1880 (18900) | 19.34 | 19.16 | 19.29 | 18.45 |
| | | 1855 (18650) | 19.23 | 19.04 | 19.16 | 18.00 |
| | 25RB-Middle (12) | 1905 (19150) | 19.29 | 19.17 | 19.26 | 18.22 |
| | | 1880 (18900) | 19.31 | 19.09 | 19.23 | 18.45 |
| | | 1855 (18650) | 19.23 | 19.05 | 19.14 | 18.15 |
| | 25RB-Low (0) | 1905 (19150) | 19.33 | 19.13 | 19.25 | 18.42 |
| | | 1880 (18900) | 19.29 | 19.13 | 19.24 | 18.44 |
| | | 1855 (18650) | 19.25 | 19.06 | 19.19 | 18.08 |
| | 50RB (0) | 1905 (19150) | 19.34 | 19.18 | 19.28 | 18.15 |
| | | 1880 (18900) | 19.32 | 19.15 | 19.25 | 18.37 |
| | | 1855 (18650) | 19.24 | 19.07 | 19.18 | 18.06 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 1902.5 (19125) | 19.40 | 19.55 | 19.48 | 18.42 |
| | | 1880 (18900) | 19.42 | 19.43 | 19.49 | 18.44 |
| | | 1857.5 (18675) | 19.38 | 19.50 | 19.48 | 18.13 |
| | 1RB-Middle (37) | 1902.5 (19125) | 19.32 | 19.49 | 19.46 | 18.07 |
| | | 1880 (18900) | 19.31 | 19.46 | 19.42 | 18.14 |
| | | 1857.5 (18675) | 19.32 | 19.47 | 19.34 | 18.25 |
| | 1RB-Low (0) | 1902.5 (19125) | 19.35 | 19.49 | 19.50 | 18.17 |
| | | 1880 (18900) | 19.40 | 19.46 | 19.50 | 18.17 |
| | | 1857.5 (18675) | 19.36 | 19.33 | 19.42 | 18.20 |
| | 36RB-High (38) | 1902.5 (19125) | 19.38 | 19.20 | 19.33 | 18.36 |
| | | 1880 (18900) | 19.39 | 19.21 | 19.34 | 18.03 |
| | | 1857.5 (18675) | 19.25 | 19.07 | 19.23 | 18.21 |
| | 36RB-Middle (19) | 1902.5 (19125) | 19.31 | 19.15 | 19.30 | 18.23 |
| | | 1880 (18900) | 19.31 | 19.17 | 19.32 | 18.06 |
| | | 1857.5 (18675) | 19.28 | 19.10 | 19.27 | 18.30 |
| | 36RB-Low (0) | 1902.5 (19125) | 19.35 | 19.18 | 19.30 | 17.96 |
| | | 1880 (18900) | 19.31 | 19.16 | 19.30 | 18.32 |
| | | 1857.5 (18675) | 19.32 | 19.14 | 19.28 | 17.94 |
| | 75RB (0) | 1902.5 (19125) | 19.37 | 19.20 | 19.32 | 18.16 |
| | | 1880 (18900) | 19.37 | 19.19 | 19.29 | 18.34 |
| | | 1857.5 (18675) | 19.31 | 19.16 | 19.26 | 18.43 |
| | | | | | | |
| 20MHz | 1RB-High (99) | 1900 (19100) | 19.36 | 19.49 | 19.53 | 18.36 |
| | | 1880 (18900) | 19.32 | 19.43 | 19.50 | 17.90 |
| | | 1860 (18700) | 19.33 | 19.56 | 19.46 | 18.27 |
| | 1RB-Middle (50) | 1900 (19100) | 19.35 | 19.56 | 19.52 | 17.91 |
| | | 1880 (18900) | 19.38 | 19.41 | 19.41 | 17.92 |
| | | 1860 (18700) | 19.32 | 19.41 | 19.46 | 17.97 |
| | 1RB-Low (0) | 1900 (19100) | 19.32 | 19.46 | 19.53 | 18.25 |
| | | 1880 (18900) | 19.29 | 19.54 | 19.50 | 17.96 |
| | | 1860 (18700) | 19.28 | 19.61 | 19.44 | 18.32 |
| | 50RB-High (50) | 1900 (19100) | 19.35 | 19.27 | 19.35 | 17.99 |
| | | 1880 (18900) | 19.31 | 19.28 | 19.39 | 18.11 |
| | | 1860 (18700) | 19.21 | 19.16 | 19.29 | 18.06 |
| | 50RB-Middle (25) | 1900 (19100) | 19.28 | 19.21 | 19.34 | 18.32 |
| | | 1880 (18900) | 19.33 | 19.18 | 19.34 | 18.36 |
| | | 1860 (18700) | 19.24 | 19.17 | 19.32 | 17.92 |
| | 50RB-Low (0) | 1900 (19100) | 19.31 | 19.25 | 19.35 | 18.14 |
| | | 1880 (18900) | 19.25 | 19.20 | 19.31 | 17.94 |
| | | 1860 (18700) | 19.26 | 19.19 | 19.31 | 17.90 |
| | 100RB (0) | 1900 (19100) | 19.32 | 19.24 | 19.34 | 18.17 |
| | | 1880 (18900) | 19.29 | 19.21 | 19.33 | 18.39 |
| | | 1860 (18700) | 19.22 | 19.17 | 19.28 | 18.39 |

**LTE Band2 ANT5_D**

| BANDWIDTH | Number of RBs | Frequency | QPSK | 16QAM | 64QAM | 256AM |
|---|---|---|---|---|---|---|
| 1.4MHz | 1RB-High (5) | 1909.3 (19193) | 14.14 | 14.09 | 14.08 | 14.14 |
| | | 1880 (18900) | 14.12 | 14.09 | 14.16 | 14.23 |
| | | 1850.7 (18607) | 14.11 | 14.20 | 14.14 | 14.22 |
| | 1RB-Middle (3) | 1909.3 (19193) | 14.03 | 14.07 | 14.24 | 14.15 |
| | | 1880 (18900) | 14.05 | 14.23 | 14.07 | 14.22 |
| | | 1850.7 (18607) | 14.25 | 14.13 | 14.21 | 14.02 |
| | 1RB-Low (0) | 1909.3 (19193) | 14.23 | 14.23 | 14.19 | 14.24 |
| | | 1880 (18900) | 14.11 | 14.19 | 14.02 | 14.03 |
| | | 1850.7 (18607) | 14.00 | 14.05 | 14.03 | 14.05 |
| | 3RB-High (3) | 1909.3 (19193) | 14.21 | 14.02 | 14.23 | 14.15 |
| | | 1880 (18900) | 14.17 | 14.03 | 14.09 | 14.23 |
| | | 1850.7 (18607) | 14.20 | 14.01 | 14.25 | 14.17 |
| | 3RB-Middle (1) | 1909.3 (19193) | 14.19 | 14.20 | 14.11 | 14.08 |
| | | 1880 (18900) | 14.00 | 14.21 | 14.02 | 14.17 |
| | | 1850.7 (18607) | 14.00 | 14.07 | 14.25 | 14.01 |
| | 3RB-Low (0) | 1909.3 (19193) | 14.22 | 14.18 | 14.24 | 14.08 |
| | | 1880 (18900) | 14.13 | 14.20 | 14.00 | 14.10 |
| | | 1850.7 (18607) | 14.05 | 14.09 | 14.02 | 14.23 |
| | 6RB (0) | 1909.3 (19193) | 14.14 | 14.19 | 14.12 | 14.12 |
| | | 1880 (18900) | 14.22 | 14.03 | 14.20 | 14.24 |
| | | 1850.7 (18607) | 14.10 | 14.18 | 14.01 | 14.01 |
| | | | | | | |
| 3MHz | 1RB-High (14) | 1908.5 (19185) | 14.06 | 14.23 | 14.13 | 14.02 |
| | | 1880 (18900) | 14.11 | 14.23 | 14.11 | 14.03 |
| | | 1851.5 (18615) | 14.10 | 14.07 | 14.05 | 14.19 |
| | 1RB-Middle (7) | 1908.5 (19185) | 14.24 | 14.14 | 14.00 | 14.18 |
| | | 1880 (18900) | 14.05 | 14.19 | 14.15 | 14.04 |
| | | 1851.5 (18615) | 14.13 | 14.10 | 14.03 | 14.22 |
| | 1RB-Low (0) | 1908.5 (19185) | 14.00 | 14.03 | 14.22 | 14.06 |
| | | 1880 (18900) | 14.04 | 14.07 | 14.04 | 14.12 |
| | | 1851.5 (18615) | 14.14 | 14.15 | 14.03 | 14.19 |
| | 8RB-High (7) | 1908.5 (19185) | 14.02 | 14.18 | 14.08 | 14.04 |
| | | 1880 (18900) | 14.03 | 14.00 | 14.22 | 14.22 |
| | | 1851.5 (18615) | 14.05 | 14.24 | 14.25 | 14.03 |
| | 8RB-Middle (4) | 1908.5 (19185) | 14.04 | 14.01 | 14.18 | 14.07 |
| | | 1880 (18900) | 14.25 | 14.24 | 14.17 | 14.24 |
| | | 1851.5 (18615) | 14.01 | 14.21 | 14.18 | 14.23 |
| | 8RB-Low (0) | 1908.5 (19185) | 14.07 | 14.04 | 14.10 | 14.09 |
| | | 1880 (18900) | 14.12 | 14.13 | 14.06 | 14.06 |
| | | 1851.5 (18615) | 14.24 | 14.03 | 14.25 | 14.04 |
| | 15RB (0) | 1908.5 (19185) | 14.08 | 14.16 | 14.02 | 14.16 |
| | | 1880 (18900) | 14.12 | 14.20 | 14.20 | 14.18 |
| | | 1851.5 (18615) | 14.25 | 14.06 | 14.21 | 14.20 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 1907.5 (19175) | 14.02 | 14.14 | 14.08 | 14.15 |
| | | 1880 (18900) | 14.07 | 14.05 | 14.09 | 14.10 |
| | | 1852.5 (18625) | 14.02 | 14.09 | 14.07 | 14.09 |
| | 1RB-Middle (12) | 1907.5 (19175) | 14.21 | 14.03 | 14.22 | 14.15 |
| | | 1880 (18900) | 14.15 | 14.22 | 14.17 | 14.03 |
| | | 1852.5 (18625) | 14.21 | 14.00 | 14.18 | 14.06 |
| | 1RB-Low (0) | 1907.5 (19175) | 14.14 | 14.16 | 14.08 | 14.04 |
| | | 1880 (18900) | 14.16 | 14.16 | 14.17 | 14.13 |
| | | 1852.5 (18625) | 14.14 | 14.21 | 14.24 | 14.06 |
| | 12RB-High (13) | 1907.5 (19175) | 14.19 | 14.01 | 14.01 | 14.02 |
| | | 1880 (18900) | 14.12 | 14.18 | 14.05 | 14.00 |
| | | 1852.5 (18625) | 14.22 | 14.03 | 14.21 | 14.25 |
| | 12RB-Middle (6) | 1907.5 (19175) | 14.23 | 14.00 | 14.04 | 14.25 |
| | | 1880 (18900) | 14.23 | 14.09 | 14.13 | 14.13 |
| | | 1852.5 (18625) | 14.07 | 14.05 | 14.03 | 14.15 |
| | 12RB-Low (0) | 1907.5 (19175) | 14.15 | 14.05 | 14.10 | 14.01 |
| | | 1880 (18900) | 14.15 | 14.24 | 14.05 | 14.22 |
| | | 1852.5 (18625) | 14.02 | 14.07 | 14.21 | 14.06 |
| | 25RB (0) | 1907.5 (19175) | 14.11 | 14.24 | 14.19 | 14.16 |
| | | 1880 (18900) | 14.17 | 14.07 | 14.17 | 14.00 |
| | | 1852.5 (18625) | 14.08 | 14.23 | 14.22 | 14.10 |
| | | | | | | |
| 10MHz | 1RB-High (49) | 1905 (19150) | 14.19 | 14.17 | 14.01 | 14.14 |
| | | 1880 (18900) | 14.10 | 14.00 | 14.23 | 14.08 |
| | | 1855 (18650) | 14.06 | 14.01 | 14.04 | 14.10 |
| | 1RB-Middle (24) | 1905 (19150) | 14.23 | 14.12 | 14.14 | 14.00 |
| | | 1880 (18900) | 14.08 | 14.04 | 14.19 | 14.25 |
| | | 1855 (18650) | 14.05 | 14.12 | 14.03 | 14.20 |
| | 1RB-Low (0) | 1905 (19150) | 14.03 | 14.00 | 14.14 | 14.23 |
| | | 1880 (18900) | 14.01 | 14.25 | 14.19 | 14.07 |
| | | 1855 (18650) | 14.18 | 14.06 | 14.21 | 14.22 |
| | 25RB-High (25) | 1905 (19150) | 14.16 | 14.23 | 14.10 | 14.22 |
| | | 1880 (18900) | 14.13 | 14.04 | 14.00 | 14.02 |
| | | 1855 (18650) | 14.06 | 14.00 | 14.23 | 14.18 |
| | 25RB-Middle (12) | 1905 (19150) | 14.19 | 14.17 | 14.19 | 14.17 |
| | | 1880 (18900) | 14.05 | 14.19 | 14.10 | 14.25 |
| | | 1855 (18650) | 14.24 | 14.08 | 14.06 | 14.22 |
| | 25RB-Low (0) | 1905 (19150) | 14.16 | 14.12 | 14.10 | 14.13 |
| | | 1880 (18900) | 14.07 | 14.07 | 14.09 | 14.12 |
| | | 1855 (18650) | 14.12 | 14.24 | 14.16 | 14.24 |
| | 50RB (0) | 1905 (19150) | 14.01 | 14.17 | 14.22 | 14.22 |
| | | 1880 (18900) | 14.18 | 14.09 | 14.04 | 14.03 |
| | | 1855 (18650) | 14.10 | 14.09 | 14.07 | 14.02 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 1902.5 (19125) | 14.08 | 14.02 | 14.15 | 14.23 |
| | | 1880 (18900) | 14.03 | 14.01 | 14.19 | 14.09 |
| | | 1857.5 (18675) | 14.22 | 14.12 | 14.14 | 14.02 |
| | 1RB-Middle (37) | 1902.5 (19125) | 14.23 | 14.21 | 14.17 | 14.03 |
| | | 1880 (18900) | 14.06 | 14.00 | 14.25 | 14.23 |
| | | 1857.5 (18675) | 14.16 | 14.10 | 14.06 | 14.19 |
| | 1RB-Low (0) | 1902.5 (19125) | 14.20 | 14.06 | 14.09 | 14.14 |
| | | 1880 (18900) | 14.06 | 14.17 | 14.17 | 14.02 |
| | | 1857.5 (18675) | 14.19 | 14.25 | 14.18 | 14.16 |
| | 36RB-High (38) | 1902.5 (19125) | 14.06 | 14.05 | 14.23 | 14.18 |
| | | 1880 (18900) | 14.05 | 14.15 | 14.15 | 14.15 |
| | | 1857.5 (18675) | 14.21 | 14.20 | 14.05 | 14.19 |
| | 36RB-Middle (19) | 1902.5 (19125) | 14.05 | 14.21 | 14.03 | 14.22 |
| | | 1880 (18900) | 14.10 | 14.00 | 14.24 | 14.09 |
| | | 1857.5 (18675) | 14.05 | 14.19 | 14.00 | 14.08 |
| | 36RB-Low (0) | 1902.5 (19125) | 14.21 | 14.16 | 14.02 | 14.13 |
| | | 1880 (18900) | 14.12 | 14.15 | 14.00 | 14.21 |
| | | 1857.5 (18675) | 14.02 | 14.03 | 14.04 | 14.17 |
| | 75RB (0) | 1902.5 (19125) | 14.18 | 14.13 | 14.00 | 14.16 |
| | | 1880 (18900) | 14.23 | 14.08 | 14.12 | 14.11 |
| | | 1857.5 (18675) | 14.00 | 14.11 | 14.01 | 14.24 |
| | | | | | | |
| 20MHz | 1RB-High (99) | 1900 (19100) | 14.14 | 14.17 | 14.05 | 14.21 |
| | | 1880 (18900) | 14.13 | 14.08 | 14.11 | 14.11 |
| | | 1860 (18700) | 14.13 | 14.01 | 14.24 | 14.21 |
| | 1RB-Middle (50) | 1900 (19100) | 14.11 | 14.11 | 14.21 | 14.22 |
| | | 1880 (18900) | 14.18 | 14.02 | 14.17 | 14.10 |
| | | 1860 (18700) | 14.14 | 14.24 | 14.00 | 14.07 |
| | 1RB-Low (0) | 1900 (19100) | 14.09 | 14.13 | 14.10 | 14.01 |
| | | 1880 (18900) | 14.12 | 14.24 | 14.08 | 14.14 |
| | | 1860 (18700) | 14.15 | 14.11 | 14.12 | 14.09 |
| | 50RB-High (50) | 1900 (19100) | 14.09 | 14.04 | 14.07 | 14.18 |
| | | 1880 (18900) | 14.12 | 14.21 | 14.11 | 14.01 |
| | | 1860 (18700) | 14.13 | 14.16 | 14.20 | 14.02 |
| | 50RB-Middle (25) | 1900 (19100) | 14.15 | 14.12 | 14.24 | 14.07 |
| | | 1880 (18900) | 14.11 | 14.02 | 14.04 | 14.24 |
| | | 1860 (18700) | 14.14 | 14.23 | 14.12 | 14.04 |
| | 50RB-Low (0) | 1900 (19100) | 14.10 | 14.19 | 14.23 | 14.04 |
| | | 1880 (18900) | 14.13 | 14.09 | 14.14 | 14.01 |
| | | 1860 (18700) | 14.10 | 14.02 | 14.16 | 14.20 |
| | 100RB (0) | 1900 (19100) | 14.09 | 14.22 | 14.07 | 14.09 |
| | | 1880 (18900) | 14.14 | 14.19 | 14.08 | 14.24 |
| | | 1860 (18700) | 14.11 | 14.03 | 14.23 | 14.04 |

**LTE Band2 ANT5_E**

| BANDWIDTH | Number of RBs | Frequency | QPSK | 16QAM | 64QAM | 256AM |
|---|---|---|---|---|---|---|
| 1.4MHz | 1RB-High (5) | 1909.3 (19193) | 18.13 | 18.21 | 18.25 | 18.09 |
| | | 1880 (18900) | 18.21 | 18.22 | 18.16 | 18.21 |
| | | 1850.7 (18607) | 18.05 | 18.11 | 18.05 | 18.15 |
| | 1RB-Middle (3) | 1909.3 (19193) | 18.21 | 18.12 | 18.09 | 18.12 |
| | | 1880 (18900) | 18.11 | 18.12 | 18.09 | 18.12 |
| | | 1850.7 (18607) | 18.18 | 18.12 | 18.24 | 18.14 |
| | 1RB-Low (0) | 1909.3 (19193) | 18.16 | 18.14 | 18.07 | 18.17 |
| | | 1880 (18900) | 18.17 | 18.19 | 18.05 | 18.02 |
| | | 1850.7 (18607) | 18.13 | 18.09 | 18.01 | 18.19 |
| | 3RB-High (3) | 1909.3 (19193) | 18.04 | 18.16 | 18.08 | 18.02 |
| | | 1880 (18900) | 18.02 | 18.01 | 18.02 | 18.18 |
| | | 1850.7 (18607) | 18.16 | 18.13 | 18.03 | 18.19 |
| | 3RB-Middle (1) | 1909.3 (19193) | 18.23 | 18.05 | 18.03 | 18.23 |
| | | 1880 (18900) | 18.10 | 18.11 | 18.03 | 18.23 |
| | | 1850.7 (18607) | 18.12 | 18.03 | 18.07 | 18.12 |
| | 3RB-Low (0) | 1909.3 (19193) | 18.12 | 18.04 | 18.06 | 18.05 |
| | | 1880 (18900) | 18.04 | 18.24 | 18.02 | 18.22 |
| | | 1850.7 (18607) | 18.22 | 18.00 | 18.25 | 18.09 |
| | 6RB (0) | 1909.3 (19193) | 18.23 | 18.10 | 18.25 | 18.15 |
| | | 1880 (18900) | 18.09 | 18.06 | 18.15 | 18.14 |
| | | 1850.7 (18607) | 18.02 | 18.23 | 18.04 | 18.19 |
| | | | | | | |
| 3MHz | 1RB-High (14) | 1908.5 (19185) | 18.24 | 18.11 | 18.19 | 18.23 |
| | | 1880 (18900) | 18.22 | 18.25 | 18.12 | 18.01 |
| | | 1851.5 (18615) | 18.06 | 18.18 | 18.24 | 18.11 |
| | 1RB-Middle (7) | 1908.5 (19185) | 18.10 | 18.21 | 18.07 | 18.24 |
| | | 1880 (18900) | 18.22 | 18.05 | 18.19 | 18.10 |
| | | 1851.5 (18615) | 18.17 | 18.00 | 18.08 | 18.21 |
| | 1RB-Low (0) | 1908.5 (19185) | 18.21 | 18.02 | 18.12 | 18.19 |
| | | 1880 (18900) | 18.13 | 18.18 | 18.02 | 18.06 |
| | | 1851.5 (18615) | 18.12 | 18.10 | 18.18 | 18.14 |
| | 8RB-High (7) | 1908.5 (19185) | 18.17 | 18.14 | 18.17 | 18.01 |
| | | 1880 (18900) | 18.19 | 18.17 | 18.23 | 18.19 |
| | | 1851.5 (18615) | 18.21 | 18.21 | 18.00 | 18.06 |
| | 8RB-Middle (4) | 1908.5 (19185) | 18.19 | 18.17 | 18.01 | 18.13 |
| | | 1880 (18900) | 18.14 | 18.22 | 18.25 | 18.06 |
| | | 1851.5 (18615) | 18.19 | 18.22 | 18.07 | 18.13 |
| | 8RB-Low (0) | 1908.5 (19185) | 18.12 | 18.02 | 18.18 | 18.15 |
| | | 1880 (18900) | 18.00 | 18.25 | 18.22 | 18.25 |
| | | 1851.5 (18615) | 18.06 | 18.25 | 18.23 | 18.05 |
| | 15RB (0) | 1908.5 (19185) | 18.23 | 18.23 | 18.21 | 18.18 |
| | | 1880 (18900) | 18.20 | 18.23 | 18.09 | 18.00 |
| | | 1851.5 (18615) | 18.01 | 18.12 | 18.01 | 18.15 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 1907.5 (19175) | 18.21 | 18.03 | 18.25 | 18.03 |
| | | 1880 (18900) | 18.12 | 18.10 | 18.04 | 18.12 |
| | | 1852.5 (18625) | 18.24 | 18.09 | 18.18 | 18.15 |
| | 1RB-Middle (12) | 1907.5 (19175) | 18.24 | 18.19 | 18.22 | 18.19 |
| | | 1880 (18900) | 18.24 | 18.14 | 18.20 | 18.07 |
| | | 1852.5 (18625) | 18.19 | 18.14 | 18.04 | 18.18 |
| | 1RB-Low (0) | 1907.5 (19175) | 18.20 | 18.05 | 18.15 | 18.20 |
| | | 1880 (18900) | 18.03 | 18.10 | 18.05 | 18.02 |
| | | 1852.5 (18625) | 18.00 | 18.09 | 18.09 | 18.22 |
| | 12RB-High (13) | 1907.5 (19175) | 18.05 | 18.10 | 18.15 | 18.20 |
| | | 1880 (18900) | 18.19 | 18.12 | 18.24 | 18.08 |
| | | 1852.5 (18625) | 18.06 | 18.16 | 18.10 | 18.17 |
| | 12RB-Middle (6) | 1907.5 (19175) | 18.02 | 18.14 | 18.04 | 18.21 |
| | | 1880 (18900) | 18.20 | 18.07 | 18.05 | 18.22 |
| | | 1852.5 (18625) | 18.03 | 18.21 | 18.18 | 18.09 |
| | 12RB-Low (0) | 1907.5 (19175) | 18.23 | 18.09 | 18.07 | 18.03 |
| | | 1880 (18900) | 18.01 | 18.22 | 18.05 | 18.25 |
| | | 1852.5 (18625) | 18.19 | 18.21 | 18.22 | 18.13 |
| | 25RB (0) | 1907.5 (19175) | 18.15 | 18.05 | 18.16 | 18.02 |
| | | 1880 (18900) | 18.04 | 18.22 | 18.18 | 18.06 |
| | | 1852.5 (18625) | 18.06 | 18.00 | 18.24 | 18.03 |
| | | | | | | |
| 10MHz | 1RB-High (49) | 1905 (19150) | 18.15 | 18.06 | 18.22 | 18.21 |
| | | 1880 (18900) | 18.17 | 18.19 | 18.20 | 18.12 |
| | | 1855 (18650) | 18.16 | 18.21 | 18.07 | 18.07 |
| | 1RB-Middle (24) | 1905 (19150) | 18.15 | 18.20 | 18.16 | 18.21 |
| | | 1880 (18900) | 18.05 | 18.10 | 18.05 | 18.23 |
| | | 1855 (18650) | 18.21 | 18.00 | 18.18 | 18.01 |
| | 1RB-Low (0) | 1905 (19150) | 18.13 | 18.22 | 18.18 | 18.19 |
| | | 1880 (18900) | 18.11 | 18.24 | 18.15 | 18.00 |
| | | 1855 (18650) | 18.19 | 18.25 | 18.04 | 18.17 |
| | 25RB-High (25) | 1905 (19150) | 18.14 | 18.08 | 18.10 | 18.10 |
| | | 1880 (18900) | 18.20 | 18.18 | 18.15 | 18.20 |
| | | 1855 (18650) | 18.18 | 18.12 | 18.25 | 18.00 |
| | 25RB-Middle (12) | 1905 (19150) | 18.05 | 18.12 | 18.19 | 18.12 |
| | | 1880 (18900) | 18.25 | 18.14 | 18.13 | 18.03 |
| | | 1855 (18650) | 18.16 | 18.14 | 18.20 | 18.09 |
| | 25RB-Low (0) | 1905 (19150) | 18.14 | 18.16 | 18.12 | 18.10 |
| | | 1880 (18900) | 18.10 | 18.23 | 18.00 | 18.14 |
| | | 1855 (18650) | 18.07 | 18.22 | 18.07 | 18.21 |
| | 50RB (0) | 1905 (19150) | 18.19 | 18.20 | 18.10 | 18.17 |
| | | 1880 (18900) | 18.09 | 18.13 | 18.12 | 18.22 |
| | | 1855 (18650) | 18.14 | 18.15 | 18.11 | 18.11 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 1902.5 (19125) | 18.20 | 18.02 | 18.07 | 18.19 |
| | | 1880 (18900) | 18.18 | 18.08 | 18.12 | 18.13 |
| | | 1857.5 (18675) | 18.12 | 18.16 | 18.03 | 18.13 |
| | 1RB-Middle (37) | 1902.5 (19125) | 18.19 | 18.00 | 18.06 | 18.10 |
| | | 1880 (18900) | 18.02 | 18.04 | 18.17 | 18.12 |
| | | 1857.5 (18675) | 18.08 | 18.24 | 18.14 | 18.16 |
| | 1RB-Low (0) | 1902.5 (19125) | 18.15 | 18.10 | 18.09 | 18.06 |
| | | 1880 (18900) | 18.21 | 18.07 | 18.06 | 18.14 |
| | | 1857.5 (18675) | 18.10 | 18.25 | 18.11 | 18.10 |
| | 36RB-High (38) | 1902.5 (19125) | 18.05 | 18.19 | 18.07 | 18.15 |
| | | 1880 (18900) | 18.05 | 18.09 | 18.02 | 18.20 |
| | | 1857.5 (18675) | 18.01 | 18.02 | 18.15 | 18.14 |
| | 36RB-Middle (19) | 1902.5 (19125) | 18.17 | 18.25 | 18.02 | 18.16 |
| | | 1880 (18900) | 18.23 | 18.18 | 18.00 | 18.16 |
| | | 1857.5 (18675) | 18.13 | 18.04 | 18.13 | 18.01 |
| | 36RB-Low (0) | 1902.5 (19125) | 18.21 | 18.18 | 18.01 | 18.23 |
| | | 1880 (18900) | 18.02 | 18.08 | 18.11 | 18.22 |
| | | 1857.5 (18675) | 18.00 | 18.23 | 18.18 | 18.14 |
| | 75RB (0) | 1902.5 (19125) | 18.00 | 18.21 | 18.24 | 18.02 |
| | | 1880 (18900) | 18.24 | 18.17 | 18.12 | 18.18 |
| | | 1857.5 (18675) | 18.13 | 18.25 | 18.04 | 18.04 |
| | | | | | | |
| 20MHz | 1RB-High (99) | 1900 (19100) | 18.14 | 18.00 | 18.20 | 18.22 |
| | | 1880 (18900) | 18.14 | 18.02 | 18.23 | 18.16 |
| | | 1860 (18700) | 18.18 | 18.06 | 18.18 | 18.17 |
| | 1RB-Middle (50) | 1900 (19100) | 18.09 | 18.09 | 18.04 | 18.05 |
| | | 1880 (18900) | 18.19 | 18.21 | 18.25 | 18.25 |
| | | 1860 (18700) | 18.17 | 18.19 | 18.05 | 18.13 |
| | 1RB-Low (0) | 1900 (19100) | 18.10 | 18.15 | 18.25 | 18.13 |
| | | 1880 (18900) | 18.14 | 18.11 | 18.03 | 18.11 |
| | | 1860 (18700) | 18.13 | 18.08 | 18.02 | 18.21 |
| | 50RB-High (50) | 1900 (19100) | 18.07 | 18.21 | 18.10 | 18.23 |
| | | 1880 (18900) | 18.09 | 18.10 | 18.23 | 18.12 |
| | | 1860 (18700) | 18.13 | 18.03 | 18.07 | 18.01 |
| | 50RB-Middle (25) | 1900 (19100) | 18.09 | 18.24 | 18.02 | 18.19 |
| | | 1880 (18900) | 18.16 | 18.08 | 18.13 | 18.06 |
| | | 1860 (18700) | 18.15 | 18.18 | 18.06 | 18.24 |
| | 50RB-Low (0) | 1900 (19100) | 18.07 | 18.01 | 18.12 | 18.23 |
| | | 1880 (18900) | 18.12 | 18.09 | 18.07 | 18.09 |
| | | 1860 (18700) | 18.10 | 18.01 | 18.10 | 18.23 |
| | 100RB (0) | 1900 (19100) | 18.09 | 18.00 | 18.21 | 18.08 |
| | | 1880 (18900) | 18.11 | 18.06 | 18.07 | 18.06 |
| | | 1860 (18700) | 18.09 | 18.22 | 18.10 | 18.10 |

**LTE Band2 ANT5_F**

| BANDWIDTH | Number of RBs | Frequency | QPSK | 16QAM | 64QAM | 256AM |
|---|---|---|---|---|---|---|
| 1.4MHz | 1RB-High (5) | 1909.3 (19193) | 20.56 | 20.30 | 20.59 | 18.36 |
| | | 1880 (18900) | 20.57 | 20.44 | 20.37 | 18.42 |
| | | 1850.7 (18607) | 20.35 | 20.32 | 20.40 | 18.37 |
| | 1RB-Middle (3) | 1909.3 (19193) | 20.31 | 20.56 | 20.58 | 18.35 |
| | | 1880 (18900) | 20.32 | 20.52 | 20.49 | 18.54 |
| | | 1850.7 (18607) | 20.40 | 20.55 | 20.34 | 18.48 |
| | 1RB-Low (0) | 1909.3 (19193) | 20.53 | 20.49 | 20.53 | 18.39 |
| | | 1880 (18900) | 20.41 | 20.31 | 20.59 | 18.49 |
| | | 1850.7 (18607) | 20.50 | 20.48 | 20.44 | 18.35 |
| | 3RB-High (3) | 1909.3 (19193) | 20.46 | 20.43 | 20.53 | 18.39 |
| | | 1880 (18900) | 20.37 | 20.58 | 20.45 | 18.51 |
| | | 1850.7 (18607) | 20.55 | 20.54 | 20.60 | 18.46 |
| | 3RB-Middle (1) | 1909.3 (19193) | 20.42 | 20.47 | 20.59 | 18.43 |
| | | 1880 (18900) | 20.31 | 20.58 | 20.35 | 18.43 |
| | | 1850.7 (18607) | 20.46 | 20.32 | 20.59 | 18.29 |
| | 3RB-Low (0) | 1909.3 (19193) | 20.37 | 20.50 | 20.52 | 18.25 |
| | | 1880 (18900) | 20.33 | 20.34 | 20.31 | 18.28 |
| | | 1850.7 (18607) | 20.44 | 20.60 | 20.55 | 18.26 |
| | 6RB (0) | 1909.3 (19193) | 20.54 | 20.47 | 20.42 | 18.50 |
| | | 1880 (18900) | 20.30 | 20.39 | 20.38 | 18.34 |
| | | 1850.7 (18607) | 20.35 | 20.59 | 20.56 | 18.27 |
| | | | | | | |
| 3MHz | 1RB-High (14) | 1908.5 (19185) | 20.37 | 20.37 | 20.60 | 18.55 |
| | | 1880 (18900) | 20.46 | 20.37 | 20.40 | 18.30 |
| | | 1851.5 (18615) | 20.51 | 20.49 | 20.30 | 18.27 |
| | 1RB-Middle (7) | 1908.5 (19185) | 20.47 | 20.39 | 20.52 | 18.55 |
| | | 1880 (18900) | 20.52 | 20.50 | 20.60 | 18.45 |
| | | 1851.5 (18615) | 20.46 | 20.35 | 20.48 | 18.33 |
| | 1RB-Low (0) | 1908.5 (19185) | 20.49 | 20.54 | 20.34 | 18.49 |
| | | 1880 (18900) | 20.34 | 20.45 | 20.56 | 18.36 |
| | | 1851.5 (18615) | 20.37 | 20.33 | 20.37 | 18.36 |
| | 8RB-High (7) | 1908.5 (19185) | 20.49 | 20.42 | 20.37 | 18.48 |
| | | 1880 (18900) | 20.54 | 20.59 | 20.35 | 18.38 |
| | | 1851.5 (18615) | 20.57 | 20.31 | 20.32 | 18.34 |
| | 8RB-Middle (4) | 1908.5 (19185) | 20.36 | 20.50 | 20.55 | 18.43 |
| | | 1880 (18900) | 20.36 | 20.45 | 20.30 | 18.50 |
| | | 1851.5 (18615) | 20.47 | 20.40 | 20.47 | 18.37 |
| | 8RB-Low (0) | 1908.5 (19185) | 20.47 | 20.41 | 20.60 | 18.41 |
| | | 1880 (18900) | 20.52 | 20.36 | 20.50 | 18.27 |
| | | 1851.5 (18615) | 20.53 | 20.44 | 20.54 | 18.30 |
| | 15RB (0) | 1908.5 (19185) | 20.45 | 20.60 | 20.46 | 18.52 |
| | | 1880 (18900) | 20.34 | 20.32 | 20.51 | 18.53 |
| | | 1851.5 (18615) | 20.31 | 20.49 | 20.38 | 18.50 |

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|---|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 1907.5 (19175) | 20.48 | 20.45 | 20.43 | 18.31 |
| | | 1880 (18900) | 20.58 | 20.38 | 20.48 | 18.55 |
| | | 1852.5 (18625) | 20.52 | 20.32 | 20.51 | 18.34 |
| | 1RB-Middle (12) | 1907.5 (19175) | 20.58 | 20.45 | 20.42 | 18.28 |
| | | 1880 (18900) | 20.43 | 20.31 | 20.48 | 18.41 |
| | | 1852.5 (18625) | 20.44 | 20.57 | 20.60 | 18.50 |
| | 1RB-Low (0) | 1907.5 (19175) | 20.54 | 20.43 | 20.38 | 18.38 |
| | | 1880 (18900) | 20.33 | 20.42 | 20.59 | 18.53 |
| | | 1852.5 (18625) | 20.55 | 20.46 | 20.41 | 18.53 |
| | 12RB-High (13) | 1907.5 (19175) | 20.57 | 20.44 | 20.53 | 18.38 |
| | | 1880 (18900) | 20.55 | 20.53 | 20.52 | 18.34 |
| | | 1852.5 (18625) | 20.37 | 20.54 | 20.59 | 18.31 |
| | 12RB-Middle (6) | 1907.5 (19175) | 20.40 | 20.49 | 20.42 | 18.36 |
| | | 1880 (18900) | 20.53 | 20.55 | 20.30 | 18.53 |
| | | 1852.5 (18625) | 20.33 | 20.40 | 20.41 | 18.46 |
| | 12RB-Low (0) | 1907.5 (19175) | 20.45 | 20.50 | 20.49 | 18.31 |
| | | 1880 (18900) | 20.55 | 20.40 | 20.51 | 18.45 |
| | | 1852.5 (18625) | 20.45 | 20.43 | 20.48 | 18.34 |
| | 25RB (0) | 1907.5 (19175) | 20.34 | 20.51 | 20.38 | 18.55 |
| | | 1880 (18900) | 20.45 | 20.60 | 20.43 | 18.47 |
| | | 1852.5 (18625) | 20.51 | 20.58 | 20.38 | 18.25 |
| | | | | | | |
| 10MHz | 1RB-High (49) | 1905 (19150) | 20.36 | 20.30 | 20.55 | 18.45 |
| | | 1880 (18900) | 20.45 | 20.54 | 20.44 | 18.55 |
| | | 1855 (18650) | 20.45 | 20.54 | 20.59 | 18.30 |
| | 1RB-Middle (24) | 1905 (19150) | 20.33 | 20.60 | 20.50 | 18.31 |
| | | 1880 (18900) | 20.32 | 20.50 | 20.41 | 18.46 |
| | | 1855 (18650) | 20.31 | 20.32 | 20.47 | 18.25 |
| | 1RB-Low (0) | 1905 (19150) | 20.41 | 20.45 | 20.59 | 18.36 |
| | | 1880 (18900) | 20.44 | 20.59 | 20.43 | 18.43 |
| | | 1855 (18650) | 20.50 | 20.49 | 20.33 | 18.54 |
| | 25RB-High (25) | 1905 (19150) | 20.47 | 20.58 | 20.49 | 18.38 |
| | | 1880 (18900) | 20.40 | 20.40 | 20.45 | 18.32 |
| | | 1855 (18650) | 20.44 | 20.52 | 20.60 | 18.52 |
| | 25RB-Middle (12) | 1905 (19150) | 20.55 | 20.36 | 20.33 | 18.42 |
| | | 1880 (18900) | 20.49 | 20.30 | 20.38 | 18.25 |
| | | 1855 (18650) | 20.50 | 20.42 | 20.37 | 18.55 |
| | 25RB-Low (0) | 1905 (19150) | 20.40 | 20.50 | 20.37 | 18.45 |
| | | 1880 (18900) | 20.30 | 20.57 | 20.42 | 18.52 |
| | | 1855 (18650) | 20.35 | 20.40 | 20.40 | 18.38 |
| | 50RB (0) | 1905 (19150) | 20.60 | 20.46 | 20.42 | 18.55 |
| | | 1880 (18900) | 20.31 | 20.43 | 20.47 | 18.38 |
| | | 1855 (18650) | 20.56 | 20.49 | 20.60 | 18.31 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 1902.5 (19125) | 20.42 | 20.41 | 20.48 | 18.31 |
| | | 1880 (18900) | 20.51 | 20.54 | 20.43 | 18.30 |
| | | 1857.5 (18675) | 20.46 | 20.49 | 20.56 | 18.42 |
| | 1RB-Middle (37) | 1902.5 (19125) | 20.49 | 20.39 | 20.31 | 18.50 |
| | | 1880 (18900) | 20.60 | 20.35 | 20.45 | 18.48 |
| | | 1857.5 (18675) | 20.41 | 20.53 | 20.57 | 18.36 |
| | 1RB-Low (0) | 1902.5 (19125) | 20.30 | 20.40 | 20.37 | 18.35 |
| | | 1880 (18900) | 20.60 | 20.31 | 20.51 | 18.34 |
| | | 1857.5 (18675) | 20.60 | 20.36 | 20.58 | 18.26 |
| | 36RB-High (38) | 1902.5 (19125) | 20.45 | 20.34 | 20.54 | 18.42 |
| | | 1880 (18900) | 20.45 | 20.44 | 20.31 | 18.45 |
| | | 1857.5 (18675) | 20.34 | 20.46 | 20.41 | 18.44 |
| | 36RB-Middle (19) | 1902.5 (19125) | 20.53 | 20.41 | 20.52 | 18.43 |
| | | 1880 (18900) | 20.38 | 20.52 | 20.58 | 18.35 |
| | | 1857.5 (18675) | 20.60 | 20.47 | 20.58 | 18.42 |
| | 36RB-Low (0) | 1902.5 (19125) | 20.41 | 20.55 | 20.54 | 18.30 |
| | | 1880 (18900) | 20.35 | 20.45 | 20.54 | 18.55 |
| | | 1857.5 (18675) | 20.47 | 20.55 | 20.38 | 18.38 |
| | 75RB (0) | 1902.5 (19125) | 20.60 | 20.41 | 20.34 | 18.38 |
| | | 1880 (18900) | 20.31 | 20.58 | 20.44 | 18.46 |
| | | 1857.5 (18675) | 20.40 | 20.45 | 20.36 | 18.31 |
| | | | | | | |
| 20MHz | 1RB-High (99) | 1900 (19100) | 20.42 | 20.59 | 20.54 | 18.28 |
| | | 1880 (18900) | 20.42 | 20.50 | 20.51 | 18.45 |
| | | 1860 (18700) | 20.47 | 20.30 | 20.44 | 18.26 |
| | 1RB-Middle (50) | 1900 (19100) | 20.36 | 20.35 | 20.31 | 18.35 |
| | | 1880 (18900) | 20.48 | 20.38 | 20.52 | 18.33 |
| | | 1860 (18700) | 20.45 | 20.53 | 20.41 | 18.25 |
| | 1RB-Low (0) | 1900 (19100) | 20.37 | 20.38 | 20.46 | 18.29 |
| | | 1880 (18900) | 20.42 | 20.35 | 20.59 | 18.41 |
| | | 1860 (18700) | 20.41 | 20.56 | 20.56 | 18.48 |
| | 50RB-High (50) | 1900 (19100) | 20.34 | 20.49 | 20.37 | 18.28 |
| | | 1880 (18900) | 20.36 | 20.51 | 20.54 | 18.43 |
| | | 1860 (18700) | 20.41 | 20.36 | 20.54 | 18.48 |
| | 50RB-Middle (25) | 1900 (19100) | 20.36 | 20.49 | 20.56 | 18.32 |
| | | 1880 (18900) | 20.44 | 20.30 | 20.57 | 18.38 |
| | | 1860 (18700) | 20.43 | 20.51 | 20.30 | 18.42 |
| | 50RB-Low (0) | 1900 (19100) | 20.34 | 20.58 | 20.41 | 18.46 |
| | | 1880 (18900) | 20.40 | 20.49 | 20.47 | 18.31 |
| | | 1860 (18700) | 20.37 | 20.35 | 20.41 | 18.52 |
| | 100RB (0) | 1900 (19100) | 20.36 | 20.50 | 20.46 | 18.54 |
| | | 1880 (18900) | 20.39 | 20.38 | 20.51 | 18.55 |
| | | 1860 (18700) | 20.36 | 20.36 | 20.60 | 18.47 |

## LTE Band4 ANT1_A

| BANDWIDTH | Number of RBs | Frequency | QPSK | 16QAM | 64QAM | 256QAM |
|---|---|---|---|---|---|---|
| 1.4MHz | 1RB-High (5) | 1754.3 (20393) | 22.88 | 22.18 | 21.03 | 18.01 |
| | | 1732.5 (20175) | 22.94 | 22.09 | 21.04 | 18.08 |
| | | 1710.7 (19957) | 22.95 | 22.20 | 21.11 | 17.94 |
| | 1RB-Middle (3) | 1754.3 (20393) | 23.02 | 22.01 | 21.00 | 18.11 |
| | | 1732.5 (20175) | 22.84 | 22.31 | 21.15 | 18.19 |
| | | 1710.7 (19957) | 23.04 | 22.17 | 21.16 | 18.16 |
| | 1RB-Low (0) | 1754.3 (20393) | 22.90 | 22.14 | 21.05 | 18.20 |
| | | 1732.5 (20175) | 22.93 | 22.29 | 21.07 | 18.25 |
| | | 1710.7 (19957) | 22.90 | 22.24 | 21.13 | 18.29 |
| | 3RB-High (3) | 1754.3 (20393) | 22.96 | 21.87 | 20.92 | 18.17 |
| | | 1732.5 (20175) | 22.89 | 21.92 | 21.03 | 18.17 |
| | | 1710.7 (19957) | 22.92 | 21.86 | 20.97 | 18.12 |
| | 3RB-Middle (1) | 1754.3 (20393) | 22.87 | 21.83 | 20.89 | 18.28 |
| | | 1732.5 (20175) | 22.96 | 21.90 | 21.02 | 18.30 |
| | | 1710.7 (19957) | 22.96 | 21.89 | 20.98 | 18.24 |
| | 3RB-Low (0) | 1754.3 (20393) | 22.88 | 21.85 | 20.97 | 18.05 |
| | | 1732.5 (20175) | 22.92 | 21.92 | 20.98 | 18.00 |
| | | 1710.7 (19957) | 22.96 | 21.91 | 21.03 | 18.00 |
| | 6RB (0) | 1754.3 (20393) | 21.87 | 20.93 | 19.84 | 17.95 |
| | | 1732.5 (20175) | 21.88 | 20.92 | 19.79 | 18.23 |
| | | 1710.7 (19957) | 21.93 | 20.98 | 19.85 | 18.19 |
| | | | | | | |
| 3MHz | 1RB-High (14) | 1753.5 (20385) | 22.87 | 22.20 | 21.14 | 18.14 |
| | | 1732.5 (20175) | 22.88 | 22.20 | 21.08 | 17.93 |
| | | 1711.5 (19965) | 22.98 | 22.26 | 21.09 | 18.09 |
| | 1RB-Middle (7) | 1753.5 (20385) | 22.80 | 22.13 | 21.01 | 18.14 |
| | | 1732.5 (20175) | 22.99 | 22.22 | 21.12 | 18.27 |
| | | 1711.5 (19965) | 23.01 | 22.33 | 21.13 | 18.06 |
| | 1RB-Low (0) | 1753.5 (20385) | 22.89 | 22.12 | 21.02 | 18.16 |
| | | 1732.5 (20175) | 22.91 | 22.23 | 21.05 | 18.09 |
| | | 1711.5 (19965) | 22.89 | 22.27 | 21.15 | 18.06 |
| | 8RB-High (7) | 1753.5 (20385) | 21.91 | 20.92 | 19.90 | 18.13 |
| | | 1732.5 (20175) | 21.92 | 20.92 | 19.91 | 17.90 |
| | | 1711.5 (19965) | 21.98 | 20.97 | 19.95 | 18.13 |
| | 8RB-Middle (4) | 1753.5 (20385) | 21.85 | 20.88 | 19.89 | 18.00 |
| | | 1732.5 (20175) | 21.91 | 20.93 | 19.92 | 18.14 |
| | | 1711.5 (19965) | 21.93 | 21.02 | 19.98 | 18.25 |
| | 8RB-Low (0) | 1753.5 (20385) | 21.89 | 20.88 | 19.94 | 17.94 |
| | | 1732.5 (20175) | 21.92 | 20.97 | 19.99 | 17.94 |
| | | 1711.5 (19965) | 21.93 | 21.00 | 19.96 | 18.07 |
| | 15RB (0) | 1753.5 (20385) | 21.87 | 20.85 | 19.89 | 18.21 |
| | | 1732.5 (20175) | 21.87 | 20.92 | 19.87 | 18.28 |
| | | 1711.5 (19965) | 21.94 | 20.94 | 19.93 | 17.95 |

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|---|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 1752.5 (20375) | 22.95 | 22.21 | 21.16 | 18.30 |
| | | 1732.5 (20175) | 22.95 | 22.27 | 21.08 | 18.08 |
| | | 1712.5 (19975) | 22.96 | 22.29 | 21.09 | 17.90 |
| | 1RB-Middle (12) | 1752.5 (20375) | 22.94 | 22.21 | 21.05 | 18.19 |
| | | 1732.5 (20175) | 22.96 | 22.39 | 21.32 | 18.20 |
| | | 1712.5 (19975) | 22.93 | 22.23 | 21.20 | 17.93 |
| | 1RB-Low (0) | 1752.5 (20375) | 22.95 | 22.22 | 21.10 | 18.29 |
| | | 1732.5 (20175) | 23.00 | 22.37 | 21.11 | 18.16 |
| | | 1712.5 (19975) | 23.03 | 22.24 | 21.20 | 18.08 |
| | 12RB-High (13) | 1752.5 (20375) | 21.91 | 20.87 | 19.93 | 18.08 |
| | | 1732.5 (20175) | 21.94 | 20.98 | 19.98 | 18.14 |
| | | 1712.5 (19975) | 21.96 | 20.98 | 19.98 | 17.96 |
| | 12RB-Middle (6) | 1752.5 (20375) | 21.88 | 20.91 | 19.91 | 18.11 |
| | | 1732.5 (20175) | 21.96 | 20.97 | 19.95 | 18.07 |
| | | 1712.5 (19975) | 21.96 | 20.96 | 19.99 | 18.30 |
| | 12RB-Low (0) | 1752.5 (20375) | 21.92 | 20.92 | 19.93 | 18.27 |
| | | 1732.5 (20175) | 21.95 | 20.98 | 20.00 | 18.26 |
| | | 1712.5 (19975) | 21.99 | 21.00 | 20.01 | 17.96 |
| | 25RB (0) | 1752.5 (20375) | 21.95 | 20.89 | 19.88 | 18.05 |
| | | 1732.5 (20175) | 22.02 | 20.99 | 19.95 | 17.98 |
| | | 1712.5 (19975) | 22.02 | 20.98 | 19.99 | 18.23 |
| | | | | | | |
| 10MHz | 1RB-High (49) | 1750 (20350) | 22.95 | 22.14 | 21.16 | 18.26 |
| | | 1732.5 (20175) | 22.97 | 22.27 | 21.18 | 18.29 |
| | | 1715 (20000) | 23.06 | 22.30 | 21.17 | 17.90 |
| | 1RB-Middle (24) | 1750 (20350) | 22.93 | 22.31 | 21.09 | 18.17 |
| | | 1732.5 (20175) | 22.94 | 22.28 | 21.03 | 18.21 |
| | | 1715 (20000) | 22.95 | 22.08 | 21.11 | 18.14 |
| | 1RB-Low (0) | 1750 (20350) | 22.95 | 22.23 | 21.07 | 18.30 |
| | | 1732.5 (20175) | 23.00 | 22.30 | 21.15 | 18.29 |
| | | 1715 (20000) | 23.10 | 22.36 | 21.17 | 17.93 |
| | 25RB-High (25) | 1750 (20350) | 21.90 | 20.88 | 19.93 | 18.26 |
| | | 1732.5 (20175) | 21.94 | 20.94 | 19.90 | 18.25 |
| | | 1715 (20000) | 21.96 | 20.98 | 19.94 | 17.99 |
| | 25RB-Middle (12) | 1750 (20350) | 21.91 | 20.87 | 19.87 | 18.30 |
| | | 1732.5 (20175) | 21.95 | 20.93 | 19.90 | 18.26 |
| | | 1715 (20000) | 21.97 | 20.93 | 19.92 | 17.94 |
| | 25RB-Low (0) | 1750 (20350) | 21.88 | 20.89 | 19.89 | 18.10 |
| | | 1732.5 (20175) | 21.95 | 20.95 | 19.92 | 18.20 |
| | | 1715 (20000) | 22.00 | 20.95 | 19.94 | 17.99 |
| | 50RB (0) | 1750 (20350) | 21.92 | 20.91 | 19.87 | 18.01 |
| | | 1732.5 (20175) | 21.94 | 20.92 | 19.91 | 18.19 |
| | | 1715 (20000) | 21.98 | 20.94 | 19.93 | 18.04 |

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|---|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 1747.5 (20325) | 23.05 | 22.13 | 21.10 | 18.10 |
| | | 1732.5 (20175) | 22.99 | 22.34 | 21.23 | 18.01 |
| | | 1717.5 (20025) | 23.01 | 22.26 | 21.15 | 18.20 |
| | 1RB-Middle (37) | 1747.5 (20325) | 22.92 | 22.22 | 21.13 | 18.02 |
| | | 1732.5 (20175) | 22.99 | 22.25 | 21.17 | 18.01 |
| | | 1717.5 (20025) | 23.01 | 22.23 | 21.14 | 18.13 |
| | 1RB-Low (0) | 1747.5 (20325) | 22.96 | 22.36 | 21.20 | 18.21 |
| | | 1732.5 (20175) | 23.01 | 22.39 | 21.19 | 18.18 |
| | | 1717.5 (20025) | 23.04 | 22.20 | 21.17 | 17.94 |
| | 36RB-High (38) | 1747.5 (20325) | 21.93 | 20.91 | 19.93 | 17.92 |
| | | 1732.5 (20175) | 21.94 | 20.92 | 19.93 | 18.06 |
| | | 1717.5 (20025) | 21.97 | 20.95 | 20.00 | 17.98 |
| | 36RB-Middle (19) | 1747.5 (20325) | 21.91 | 20.90 | 19.90 | 18.14 |
| | | 1732.5 (20175) | 21.94 | 20.92 | 19.92 | 18.08 |
| | | 1717.5 (20025) | 21.98 | 20.96 | 19.96 | 18.05 |
| | 36RB-Low (0) | 1747.5 (20325) | 21.93 | 20.92 | 19.91 | 18.19 |
| | | 1732.5 (20175) | 21.94 | 20.96 | 19.99 | 17.97 |
| | | 1717.5 (20025) | 21.96 | 20.95 | 19.97 | 18.04 |
| | 75RB (0) | 1747.5 (20325) | 21.91 | 20.93 | 19.91 | 18.24 |
| | | 1732.5 (20175) | 21.97 | 20.95 | 19.96 | 18.00 |
| | | 1717.5 (20025) | 21.97 | 20.97 | 19.97 | 18.24 |
| | | | | | | |
| 20MHz | 1RB-High (99) | 1745 (20300) | 22.97 | 22.35 | 21.02 | 18.25 |
| | | 1732.5 (20175) | 22.95 | 22.15 | 21.17 | 18.12 |
| | | 1720 (20050) | 23.00 | 22.34 | 21.19 | 17.91 |
| | 1RB-Middle (50) | 1745 (20300) | 22.95 | 22.23 | 21.07 | 17.97 |
| | | 1732.5 (20175) | 22.98 | 22.26 | 21.14 | 18.08 |
| | | 1720 (20050) | 23.00 | 22.25 | 21.13 | 18.16 |
| | 1RB-Low (0) | 1745 (20300) | 23.02 | 22.28 | 21.09 | 18.06 |
| | | 1732.5 (20175) | 23.12 | 22.39 | 21.15 | 17.94 |
| | | 1720 (20050) | 23.06 | 22.14 | 21.19 | 18.12 |
| | 50RB-High (50) | 1745 (20300) | 21.94 | 20.96 | 19.94 | 18.18 |
| | | 1732.5 (20175) | 21.95 | 20.93 | 19.94 | 18.11 |
| | | 1720 (20050) | 21.98 | 20.98 | 19.97 | 17.90 |
| | 50RB-Middle (25) | 1745 (20300) | 21.95 | 20.95 | 19.90 | 18.03 |
| | | 1732.5 (20175) | 22.00 | 21.00 | 19.99 | 18.00 |
| | | 1720 (20050) | 22.01 | 21.00 | 19.95 | 18.12 |
| | 50RB-Low (0) | 1745 (20300) | 21.96 | 20.96 | 19.95 | 18.18 |
| | | 1732.5 (20175) | 22.00 | 21.00 | 19.97 | 18.16 |
| | | 1720 (20050) | 22.01 | 20.98 | 19.96 | 18.10 |
| | 100RB (0) | 1745 (20300) | 21.97 | 20.92 | 19.92 | 18.15 |
| | | 1732.5 (20175) | 21.98 | 20.95 | 19.95 | 18.24 |
| | | 1720 (20050) | 21.99 | 20.96 | 19.96 | 18.10 |

**LTE Band4 ANT1_B/C**

| BANDWIDTH | Number of RBs | Frequency | QPSK | 16QAM | 64QAM | 256QAM |
|---|---|---|---|---|---|---|
| 1.4MHz | 1RB-High (5) | 1754.3 (20393) | 18.23 | 18.35 | 18.26 | 18.12 |
| | | 1732.5 (20175) | 18.26 | 18.34 | 18.43 | 18.25 |
| | | 1710.7 (19957) | 18.12 | 18.53 | 18.49 | 18.28 |
| | 1RB-Middle (3) | 1754.3 (20393) | 18.17 | 18.66 | 18.48 | 18.12 |
| | | 1732.5 (20175) | 18.14 | 18.65 | 18.37 | 18.06 |
| | | 1710.7 (19957) | 18.27 | 18.71 | 18.53 | 18.30 |
| | 1RB-Low (0) | 1754.3 (20393) | 18.17 | 18.46 | 18.46 | 17.90 |
| | | 1732.5 (20175) | 18.26 | 18.53 | 18.52 | 18.12 |
| | | 1710.7 (19957) | 18.25 | 18.47 | 18.51 | 18.30 |
| | 3RB-High (3) | 1754.3 (20393) | 18.19 | 18.21 | 18.26 | 18.22 |
| | | 1732.5 (20175) | 18.22 | 18.19 | 18.35 | 17.99 |
| | | 1710.7 (19957) | 18.25 | 18.13 | 18.38 | 18.11 |
| | 3RB-Middle (1) | 1754.3 (20393) | 18.19 | 18.13 | 18.28 | 18.15 |
| | | 1732.5 (20175) | 18.23 | 18.13 | 18.34 | 18.11 |
| | | 1710.7 (19957) | 18.22 | 18.18 | 18.31 | 18.26 |
| | 3RB-Low (0) | 1754.3 (20393) | 18.24 | 18.15 | 18.25 | 18.06 |
| | | 1732.5 (20175) | 18.22 | 18.12 | 18.27 | 17.96 |
| | | 1710.7 (19957) | 18.23 | 18.16 | 18.27 | 18.05 |
| | 6RB (0) | 1754.3 (20393) | 18.14 | 18.29 | 18.21 | 18.27 |
| | | 1732.5 (20175) | 18.21 | 18.25 | 18.17 | 18.29 |
| | | 1710.7 (19957) | 18.21 | 18.37 | 18.16 | 18.09 |
| | | | | | | |
| 3MHz | 1RB-High (14) | 1753.5 (20385) | 18.17 | 18.46 | 18.43 | 18.14 |
| | | 1732.5 (20175) | 18.24 | 18.48 | 18.41 | 18.16 |
| | | 1711.5 (19965) | 18.18 | 18.63 | 18.52 | 17.97 |
| | 1RB-Middle (7) | 1753.5 (20385) | 18.21 | 18.55 | 18.39 | 17.93 |
| | | 1732.5 (20175) | 18.18 | 18.53 | 18.39 | 18.04 |
| | | 1711.5 (19965) | 18.18 | 18.42 | 18.59 | 17.93 |
| | 1RB-Low (0) | 1753.5 (20385) | 18.20 | 18.42 | 18.29 | 17.90 |
| | | 1732.5 (20175) | 18.25 | 18.40 | 18.33 | 18.01 |
| | | 1711.5 (19965) | 18.18 | 18.73 | 18.43 | 18.16 |
| | 8RB-High (7) | 1753.5 (20385) | 18.19 | 18.28 | 18.19 | 18.30 |
| | | 1732.5 (20175) | 18.20 | 18.24 | 18.26 | 18.16 |
| | | 1711.5 (19965) | 18.31 | 18.41 | 18.33 | 18.28 |
| | 8RB-Middle (4) | 1753.5 (20385) | 18.19 | 18.23 | 18.25 | 18.10 |
| | | 1732.5 (20175) | 18.21 | 18.27 | 18.26 | 17.99 |
| | | 1711.5 (19965) | 18.23 | 18.37 | 18.31 | 18.23 |
| | 8RB-Low (0) | 1753.5 (20385) | 18.19 | 18.25 | 18.24 | 18.02 |
| | | 1732.5 (20175) | 18.21 | 18.28 | 18.30 | 18.18 |
| | | 1711.5 (19965) | 18.25 | 18.31 | 18.31 | 18.25 |
| | 15RB (0) | 1753.5 (20385) | 18.20 | 18.18 | 18.18 | 18.01 |
| | | 1732.5 (20175) | 18.20 | 18.19 | 18.21 | 18.28 |
| | | 1711.5 (19965) | 18.26 | 18.25 | 18.29 | 18.02 |

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|---|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 1752.5 (20375) | 18.24 | 18.56 | 18.34 | 18.29 |
| | | 1732.5 (20175) | 18.20 | 18.83 | 18.37 | 18.08 |
| | | 1712.5 (19975) | 18.25 | 18.66 | 18.50 | 18.30 |
| | 1RB-Middle (12) | 1752.5 (20375) | 18.31 | 18.58 | 18.35 | 18.23 |
| | | 1732.5 (20175) | 18.28 | 18.55 | 18.43 | 18.07 |
| | | 1712.5 (19975) | 18.43 | 18.45 | 18.61 | 18.09 |
| | 1RB-Low (0) | 1752.5 (20375) | 18.20 | 18.62 | 18.41 | 18.22 |
| | | 1732.5 (20175) | 18.29 | 18.57 | 18.43 | 18.01 |
| | | 1712.5 (19975) | 18.21 | 18.50 | 18.32 | 18.09 |
| | 12RB-High (13) | 1752.5 (20375) | 18.22 | 18.28 | 18.27 | 18.01 |
| | | 1732.5 (20175) | 18.26 | 18.20 | 18.32 | 18.17 |
| | | 1712.5 (19975) | 18.32 | 18.34 | 18.38 | 18.27 |
| | 12RB-Middle (6) | 1752.5 (20375) | 18.23 | 18.24 | 18.29 | 17.92 |
| | | 1732.5 (20175) | 18.25 | 18.25 | 18.28 | 18.08 |
| | | 1712.5 (19975) | 18.32 | 18.35 | 18.39 | 17.93 |
| | 12RB-Low (0) | 1752.5 (20375) | 18.23 | 18.25 | 18.31 | 18.00 |
| | | 1732.5 (20175) | 18.26 | 18.24 | 18.33 | 17.91 |
| | | 1712.5 (19975) | 18.30 | 18.32 | 18.35 | 17.90 |
| | 25RB (0) | 1752.5 (20375) | 18.28 | 18.26 | 18.25 | 18.29 |
| | | 1732.5 (20175) | 18.28 | 18.24 | 18.26 | 17.99 |
| | | 1712.5 (19975) | 18.32 | 18.35 | 18.31 | 18.30 |
| | | | | | | |
| 10MHz | 1RB-High (49) | 1750 (20350) | 18.24 | 18.75 | 18.50 | 18.03 |
| | | 1732.5 (20175) | 18.15 | 18.70 | 18.51 | 17.93 |
| | | 1715 (20000) | 18.26 | 18.65 | 18.47 | 18.27 |
| | 1RB-Middle (24) | 1750 (20350) | 18.22 | 18.55 | 18.27 | 17.96 |
| | | 1732.5 (20175) | 18.23 | 18.55 | 18.47 | 17.95 |
| | | 1715 (20000) | 18.17 | 18.62 | 18.30 | 18.12 |
| | 1RB-Low (0) | 1750 (20350) | 18.21 | 18.64 | 18.50 | 18.12 |
| | | 1732.5 (20175) | 18.29 | 18.67 | 18.47 | 18.06 |
| | | 1715 (20000) | 18.25 | 18.53 | 18.37 | 18.22 |
| | 25RB-High (25) | 1750 (20350) | 18.22 | 18.23 | 18.24 | 17.98 |
| | | 1732.5 (20175) | 18.22 | 18.22 | 18.20 | 18.16 |
| | | 1715 (20000) | 18.28 | 18.28 | 18.30 | 18.22 |
| | 25RB-Middle (12) | 1750 (20350) | 18.21 | 18.20 | 18.25 | 17.99 |
| | | 1732.5 (20175) | 18.20 | 18.19 | 18.20 | 18.25 |
| | | 1715 (20000) | 18.28 | 18.31 | 18.29 | 18.03 |
| | 25RB-Low (0) | 1750 (20350) | 18.24 | 18.21 | 18.21 | 18.24 |
| | | 1732.5 (20175) | 18.26 | 18.28 | 18.25 | 17.93 |
| | | 1715 (20000) | 18.27 | 18.21 | 18.25 | 18.00 |
| | 50RB (0) | 1750 (20350) | 18.22 | 18.23 | 18.23 | 18.16 |
| | | 1732.5 (20175) | 18.23 | 18.24 | 18.26 | 18.02 |
| | | 1715 (20000) | 18.29 | 18.29 | 18.27 | 18.23 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 1747.5 (20325) | 18.32 | 18.52 | 18.54 | 17.91 |
| | | 1732.5 (20175) | 18.27 | 18.66 | 18.45 | 18.01 |
| | | 1717.5 (20025) | 18.32 | 18.72 | 18.53 | 18.02 |
| | 1RB-Middle (37) | 1747.5 (20325) | 18.15 | 18.68 | 18.46 | 18.26 |
| | | 1732.5 (20175) | 18.18 | 18.70 | 18.49 | 17.99 |
| | | 1717.5 (20025) | 18.24 | 18.85 | 18.47 | 18.03 |
| | 1RB-Low (0) | 1747.5 (20325) | 18.28 | 18.78 | 18.51 | 18.05 |
| | | 1732.5 (20175) | 18.28 | 18.63 | 18.53 | 17.97 |
| | | 1717.5 (20025) | 18.29 | 18.88 | 18.59 | 18.25 |
| | 36RB-High (38) | 1747.5 (20325) | 18.23 | 18.23 | 18.28 | 18.27 |
| | | 1732.5 (20175) | 18.22 | 18.23 | 18.27 | 18.20 |
| | | 1717.5 (20025) | 18.28 | 18.26 | 18.30 | 18.21 |
| | 36RB-Middle (19) | 1747.5 (20325) | 18.23 | 18.25 | 18.27 | 18.11 |
| | | 1732.5 (20175) | 18.22 | 18.26 | 18.27 | 18.10 |
| | | 1717.5 (20025) | 18.27 | 18.28 | 18.32 | 18.19 |
| | 36RB-Low (0) | 1747.5 (20325) | 18.25 | 18.24 | 18.26 | 18.22 |
| | | 1732.5 (20175) | 18.29 | 18.25 | 18.29 | 18.13 |
| | | 1717.5 (20025) | 18.32 | 18.35 | 18.37 | 18.27 |
| | 75RB (0) | 1747.5 (20325) | 18.24 | 18.29 | 18.26 | 18.17 |
| | | 1732.5 (20175) | 18.26 | 18.27 | 18.25 | 17.92 |
| | | 1717.5 (20025) | 18.31 | 18.31 | 18.33 | 18.06 |
| | | | | | | |
| 20MHz | 1RB-High (99) | 1745 (20300) | 18.30 | 18.48 | 18.45 | 18.30 |
| | | 1732.5 (20175) | 18.28 | 18.66 | 18.49 | 17.92 |
| | | 1720 (20050) | 18.32 | 18.76 | 18.47 | 18.16 |
| | 1RB-Middle (50) | 1745 (20300) | 18.14 | 18.70 | 18.51 | 18.24 |
| | | 1732.5 (20175) | 18.29 | 18.57 | 18.49 | 18.24 |
| | | 1720 (20050) | 18.24 | 18.55 | 18.50 | 18.03 |
| | 1RB-Low (0) | 1745 (20300) | 18.37 | 18.59 | 18.50 | 17.99 |
| | | 1732.5 (20175) | 18.38 | 18.81 | 18.64 | 18.23 |
| | | 1720 (20050) | 18.33 | 18.72 | 18.56 | 18.14 |
| | 50RB-High (50) | 1745 (20300) | 18.29 | 18.27 | 18.26 | 18.29 |
| | | 1732.5 (20175) | 18.33 | 18.26 | 18.27 | 17.99 |
| | | 1720 (20050) | 18.31 | 18.28 | 18.32 | 18.12 |
| | 50RB-Middle (25) | 1745 (20300) | 18.28 | 18.26 | 18.27 | 17.90 |
| | | 1732.5 (20175) | 18.29 | 18.29 | 18.26 | 17.93 |
| | | 1720 (20050) | 18.29 | 18.33 | 18.32 | 18.21 |
| | 50RB-Low (0) | 1745 (20300) | 18.22 | 18.28 | 18.31 | 18.15 |
| | | 1732.5 (20175) | 18.31 | 18.32 | 18.32 | 18.25 |
| | | 1720 (20050) | 18.30 | 18.32 | 18.34 | 18.08 |
| | 100RB (0) | 1745 (20300) | 18.31 | 18.25 | 18.25 | 18.18 |
| | | 1732.5 (20175) | 18.31 | 18.27 | 18.27 | 18.11 |
| | | 1720 (20050) | 18.32 | 18.31 | 18.30 | 18.24 |

**LTE Band4 ANT5_D**

| BANDWIDTH | Number of RBs | Frequency | QPSK | 16QAM | 64QAM | 256QAM |
|---|---|---|---|---|---|---|
| 1.4MHz | 1RB-High (5) | 1754.3 (20393) | 14.62 | 14.74 | 14.69 | 14.68 |
| | | 1732.5 (20175) | 14.67 | 14.64 | 14.65 | 14.76 |
| | | 1710.7 (19957) | 14.65 | 14.66 | 14.66 | 14.75 |
| | 1RB-Middle (3) | 1754.3 (20393) | 14.79 | 14.61 | 14.73 | 14.67 |
| | | 1732.5 (20175) | 14.72 | 14.72 | 14.68 | 14.75 |
| | | 1710.7 (19957) | 14.61 | 14.68 | 14.72 | 14.78 |
| | 1RB-Low (0) | 1754.3 (20393) | 14.77 | 14.77 | 14.65 | 14.73 |
| | | 1732.5 (20175) | 14.63 | 14.71 | 14.65 | 14.80 |
| | | 1710.7 (19957) | 14.76 | 14.60 | 14.76 | 14.64 |
| | 3RB-High (3) | 1754.3 (20393) | 14.68 | 14.80 | 14.65 | 14.79 |
| | | 1732.5 (20175) | 14.80 | 14.78 | 14.60 | 14.62 |
| | | 1710.7 (19957) | 14.74 | 14.65 | 14.75 | 14.68 |
| | 3RB-Middle (1) | 1754.3 (20393) | 14.63 | 14.70 | 14.74 | 14.73 |
| | | 1732.5 (20175) | 14.79 | 14.79 | 14.70 | 14.60 |
| | | 1710.7 (19957) | 14.60 | 14.68 | 14.65 | 14.70 |
| | 3RB-Low (0) | 1754.3 (20393) | 14.73 | 14.78 | 14.65 | 14.63 |
| | | 1732.5 (20175) | 14.63 | 14.60 | 14.60 | 14.63 |
| | | 1710.7 (19957) | 14.71 | 14.77 | 14.63 | 14.62 |
| | 6RB (0) | 1754.3 (20393) | 14.67 | 14.69 | 14.69 | 14.69 |
| | | 1732.5 (20175) | 14.71 | 14.69 | 14.63 | 14.72 |
| | | 1710.7 (19957) | 14.60 | 14.80 | 14.62 | 14.67 |
| | | | | | | |
| 3MHz | 1RB-High (14) | 1753.5 (20385) | 14.61 | 14.70 | 14.73 | 14.66 |
| | | 1732.5 (20175) | 14.68 | 14.80 | 14.74 | 14.69 |
| | | 1711.5 (19965) | 14.62 | 14.62 | 14.74 | 14.77 |
| | 1RB-Middle (7) | 1753.5 (20385) | 14.73 | 14.64 | 14.66 | 14.73 |
| | | 1732.5 (20175) | 14.70 | 14.68 | 14.68 | 14.66 |
| | | 1711.5 (19965) | 14.75 | 14.64 | 14.68 | 14.72 |
| | 1RB-Low (0) | 1753.5 (20385) | 14.73 | 14.69 | 14.79 | 14.68 |
| | | 1732.5 (20175) | 14.75 | 14.78 | 14.60 | 14.78 |
| | | 1711.5 (19965) | 14.72 | 14.63 | 14.75 | 14.77 |
| | 8RB-High (7) | 1753.5 (20385) | 14.68 | 14.78 | 14.61 | 14.71 |
| | | 1732.5 (20175) | 14.72 | 14.64 | 14.70 | 14.80 |
| | | 1711.5 (19965) | 14.64 | 14.75 | 14.63 | 14.66 |
| | 8RB-Middle (4) | 1753.5 (20385) | 14.77 | 14.78 | 14.67 | 14.72 |
| | | 1732.5 (20175) | 14.66 | 14.64 | 14.70 | 14.61 |
| | | 1711.5 (19965) | 14.70 | 14.68 | 14.61 | 14.67 |
| | 8RB-Low (0) | 1753.5 (20385) | 14.70 | 14.70 | 14.71 | 14.60 |
| | | 1732.5 (20175) | 14.71 | 14.69 | 14.74 | 14.66 |
| | | 1711.5 (19965) | 14.62 | 14.75 | 14.60 | 14.65 |
| | 15RB (0) | 1753.5 (20385) | 14.67 | 14.64 | 14.61 | 14.72 |
| | | 1732.5 (20175) | 14.66 | 14.78 | 14.73 | 14.66 |
| | | 1711.5 (19965) | 14.62 | 14.77 | 14.80 | 14.66 |

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|---|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 1752.5 (20375) | 14.67 | 14.63 | 14.71 | 14.80 |
| | | 1732.5 (20175) | 14.63 | 14.71 | 14.69 | 14.66 |
| | | 1712.5 (19975) | 14.60 | 14.67 | 14.65 | 14.63 |
| | 1RB-Middle (12) | 1752.5 (20375) | 14.80 | 14.60 | 14.80 | 14.72 |
| | | 1732.5 (20175) | 14.60 | 14.76 | 14.80 | 14.71 |
| | | 1712.5 (19975) | 14.72 | 14.74 | 14.77 | 14.70 |
| | 1RB-Low (0) | 1752.5 (20375) | 14.76 | 14.75 | 14.62 | 14.75 |
| | | 1732.5 (20175) | 14.67 | 14.71 | 14.63 | 14.67 |
| | | 1712.5 (19975) | 14.78 | 14.67 | 14.60 | 14.72 |
| | 12RB-High (13) | 1752.5 (20375) | 14.63 | 14.66 | 14.60 | 14.67 |
| | | 1732.5 (20175) | 14.68 | 14.69 | 14.61 | 14.78 |
| | | 1712.5 (19975) | 14.67 | 14.79 | 14.70 | 14.61 |
| | 12RB-Middle (6) | 1752.5 (20375) | 14.68 | 14.69 | 14.71 | 14.73 |
| | | 1732.5 (20175) | 14.63 | 14.60 | 14.60 | 14.65 |
| | | 1712.5 (19975) | 14.73 | 14.74 | 14.66 | 14.76 |
| | 12RB-Low (0) | 1752.5 (20375) | 14.65 | 14.73 | 14.78 | 14.61 |
| | | 1732.5 (20175) | 14.64 | 14.60 | 14.64 | 14.79 |
| | | 1712.5 (19975) | 14.64 | 14.70 | 14.62 | 14.66 |
| | 25RB (0) | 1752.5 (20375) | 14.69 | 14.69 | 14.74 | 14.60 |
| | | 1732.5 (20175) | 14.63 | 14.70 | 14.71 | 14.64 |
| | | 1712.5 (19975) | 14.60 | 14.68 | 14.60 | 14.77 |
| | | | | | | |
| 10MHz | 1RB-High (49) | 1750 (20350) | 14.71 | 14.79 | 14.67 | 14.72 |
| | | 1732.5 (20175) | 14.80 | 14.79 | 14.65 | 14.65 |
| | | 1715 (20000) | 14.65 | 14.79 | 14.73 | 14.67 |
| | 1RB-Middle (24) | 1750 (20350) | 14.73 | 14.68 | 14.62 | 14.74 |
| | | 1732.5 (20175) | 14.71 | 14.70 | 14.68 | 14.75 |
| | | 1715 (20000) | 14.69 | 14.67 | 14.73 | 14.69 |
| | 1RB-Low (0) | 1750 (20350) | 14.68 | 14.78 | 14.62 | 14.70 |
| | | 1732.5 (20175) | 14.79 | 14.67 | 14.73 | 14.70 |
| | | 1715 (20000) | 14.77 | 14.70 | 14.61 | 14.67 |
| | 25RB-High (25) | 1750 (20350) | 14.71 | 14.72 | 14.67 | 14.63 |
| | | 1732.5 (20175) | 14.78 | 14.66 | 14.65 | 14.66 |
| | | 1715 (20000) | 14.75 | 14.71 | 14.76 | 14.68 |
| | 25RB-Middle (12) | 1750 (20350) | 14.60 | 14.73 | 14.77 | 14.74 |
| | | 1732.5 (20175) | 14.60 | 14.68 | 14.68 | 14.67 |
| | | 1715 (20000) | 14.60 | 14.77 | 14.80 | 14.74 |
| | 25RB-Low (0) | 1750 (20350) | 14.66 | 14.77 | 14.75 | 14.60 |
| | | 1732.5 (20175) | 14.75 | 14.74 | 14.68 | 14.70 |
| | | 1715 (20000) | 14.62 | 14.77 | 14.79 | 14.65 |
| | 50RB (0) | 1750 (20350) | 14.63 | 14.75 | 14.61 | 14.63 |
| | | 1732.5 (20175) | 14.61 | 14.71 | 14.68 | 14.69 |
| | | 1715 (20000) | 14.78 | 14.72 | 14.61 | 14.76 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 1747.5 (20325) | 14.69 | 14.61 | 14.79 | 14.74 |
| | | 1732.5 (20175) | 14.68 | 14.76 | 14.66 | 14.65 |
| | | 1717.5 (20025) | 14.68 | 14.63 | 14.67 | 14.72 |
| | 1RB-Middle (37) | 1747.5 (20325) | 14.61 | 14.73 | 14.68 | 14.76 |
| | | 1732.5 (20175) | 14.67 | 14.68 | 14.70 | 14.64 |
| | | 1717.5 (20025) | 14.72 | 14.64 | 14.68 | 14.68 |
| | 1RB-Low (0) | 1747.5 (20325) | 14.73 | 14.79 | 14.77 | 14.71 |
| | | 1732.5 (20175) | 14.70 | 14.71 | 14.77 | 14.68 |
| | | 1717.5 (20025) | 14.73 | 14.66 | 14.78 | 14.66 |
| | 36RB-High (38) | 1747.5 (20325) | 14.62 | 14.60 | 14.71 | 14.62 |
| | | 1732.5 (20175) | 14.76 | 14.61 | 14.61 | 14.79 |
| | | 1717.5 (20025) | 14.78 | 14.74 | 14.65 | 14.71 |
| | 36RB-Middle (19) | 1747.5 (20325) | 14.69 | 14.76 | 14.60 | 14.68 |
| | | 1732.5 (20175) | 14.74 | 14.64 | 14.69 | 14.64 |
| | | 1717.5 (20025) | 14.70 | 14.76 | 14.72 | 14.80 |
| | 36RB-Low (0) | 1747.5 (20325) | 14.75 | 14.69 | 14.78 | 14.72 |
| | | 1732.5 (20175) | 14.76 | 14.69 | 14.62 | 14.66 |
| | | 1717.5 (20025) | 14.72 | 14.65 | 14.64 | 14.75 |
| | 75RB (0) | 1747.5 (20325) | 14.79 | 14.73 | 14.74 | 14.73 |
| | | 1732.5 (20175) | 14.68 | 14.67 | 14.62 | 14.80 |
| | | 1717.5 (20025) | 14.75 | 14.80 | 14.65 | 14.62 |
| | | | | | | |
| 20MHz | 1RB-High (99) | 1745 (20300) | 14.74 | 14.67 | 14.75 | 14.67 |
| | | 1732.5 (20175) | 14.73 | 14.66 | 14.73 | 14.64 |
| | | 1720 (20050) | 14.71 | 14.65 | 14.62 | 14.73 |
| | 1RB-Middle (50) | 1745 (20300) | 14.71 | 14.67 | 14.76 | 14.74 |
| | | 1732.5 (20175) | 14.72 | 14.69 | 14.77 | 14.62 |
| | | 1720 (20050) | 14.65 | 14.75 | 14.72 | 14.63 |
| | 1RB-Low (0) | 1745 (20300) | 14.68 | 14.69 | 14.65 | 14.79 |
| | | 1732.5 (20175) | 14.62 | 14.70 | 14.76 | 14.67 |
| | | 1720 (20050) | 14.63 | 14.73 | 14.74 | 14.75 |
| | 50RB-High (50) | 1745 (20300) | 14.71 | 14.69 | 14.61 | 14.69 |
| | | 1732.5 (20175) | 14.67 | 14.71 | 14.77 | 14.65 |
| | | 1720 (20050) | 14.63 | 14.78 | 14.76 | 14.67 |
| | 50RB-Middle (25) | 1745 (20300) | 14.69 | 14.74 | 14.67 | 14.66 |
| | | 1732.5 (20175) | 14.65 | 14.75 | 14.73 | 14.71 |
| | | 1720 (20050) | 14.62 | 14.80 | 14.62 | 14.67 |
| | 50RB-Low (0) | 1745 (20300) | 14.69 | 14.73 | 14.61 | 14.63 |
| | | 1732.5 (20175) | 14.62 | 14.72 | 14.72 | 14.66 |
| | | 1720 (20050) | 14.60 | 14.75 | 14.62 | 14.71 |
| | 100RB (0) | 1745 (20300) | 14.70 | 14.70 | 14.66 | 14.64 |
| | | 1732.5 (20175) | 14.64 | 14.80 | 14.73 | 14.79 |
| | | 1720 (20050) | 14.62 | 14.65 | 14.80 | 14.79 |

**LTE Band4 ANT5_E**

| BANDWIDTH | Number of RBs | Frequency | QPSK | 16QAM | 64QAM | 256QAM |
|---|---|---|---|---|---|---|
| 1.4MHz | 1RB-High (5) | 1754.3 (20393) | 20.23 | 20.33 | 20.32 | 18.20 |
| | | 1732.5 (20175) | 20.17 | 20.20 | 20.27 | 18.21 |
| | | 1710.7 (19957) | 20.29 | 20.32 | 20.28 | 18.14 |
| | 1RB-Middle (3) | 1754.3 (20393) | 20.28 | 20.23 | 20.24 | 18.17 |
| | | 1732.5 (20175) | 20.32 | 20.25 | 20.28 | 18.16 |
| | | 1710.7 (19957) | 20.28 | 20.24 | 20.30 | 18.23 |
| | 1RB-Low (0) | 1754.3 (20393) | 20.15 | 20.33 | 20.22 | 18.14 |
| | | 1732.5 (20175) | 20.18 | 20.34 | 20.32 | 18.10 |
| | | 1710.7 (19957) | 20.32 | 20.18 | 20.20 | 18.28 |
| | 3RB-High (3) | 1754.3 (20393) | 20.24 | 20.15 | 20.18 | 18.13 |
| | | 1732.5 (20175) | 20.17 | 20.33 | 20.33 | 18.18 |
| | | 1710.7 (19957) | 20.29 | 20.16 | 20.19 | 18.24 |
| | 3RB-Middle (1) | 1754.3 (20393) | 20.18 | 20.33 | 20.15 | 18.27 |
| | | 1732.5 (20175) | 20.35 | 20.25 | 20.23 | 18.13 |
| | | 1710.7 (19957) | 20.35 | 20.28 | 20.18 | 18.27 |
| | 3RB-Low (0) | 1754.3 (20393) | 20.15 | 20.23 | 20.34 | 18.11 |
| | | 1732.5 (20175) | 20.15 | 20.32 | 20.22 | 18.19 |
| | | 1710.7 (19957) | 20.28 | 20.24 | 20.23 | 18.30 |
| | 6RB (0) | 1754.3 (20393) | 20.25 | 20.21 | 20.20 | 18.30 |
| | | 1732.5 (20175) | 20.23 | 20.21 | 20.35 | 18.23 |
| | | 1710.7 (19957) | 20.24 | 20.26 | 20.23 | 18.17 |
| | | | | | | |
| 3MHz | 1RB-High (14) | 1753.5 (20385) | 20.25 | 20.17 | 20.18 | 18.13 |
| | | 1732.5 (20175) | 20.16 | 20.33 | 20.22 | 18.10 |
| | | 1711.5 (19965) | 20.20 | 20.17 | 20.16 | 18.23 |
| | 1RB-Middle (7) | 1753.5 (20385) | 20.22 | 20.23 | 20.26 | 18.16 |
| | | 1732.5 (20175) | 20.28 | 20.25 | 20.23 | 18.14 |
| | | 1711.5 (19965) | 20.34 | 20.22 | 20.28 | 18.15 |
| | 1RB-Low (0) | 1753.5 (20385) | 20.22 | 20.30 | 20.20 | 18.12 |
| | | 1732.5 (20175) | 20.21 | 20.31 | 20.19 | 18.21 |
| | | 1711.5 (19965) | 20.27 | 20.30 | 20.20 | 18.22 |
| | 8RB-High (7) | 1753.5 (20385) | 20.26 | 20.20 | 20.33 | 18.16 |
| | | 1732.5 (20175) | 20.17 | 20.27 | 20.23 | 18.11 |
| | | 1711.5 (19965) | 20.31 | 20.27 | 20.34 | 18.22 |
| | 8RB-Middle (4) | 1753.5 (20385) | 20.23 | 20.32 | 20.19 | 18.19 |
| | | 1732.5 (20175) | 20.17 | 20.22 | 20.20 | 18.27 |
| | | 1711.5 (19965) | 20.26 | 20.17 | 20.35 | 18.12 |
| | 8RB-Low (0) | 1753.5 (20385) | 20.27 | 20.28 | 20.23 | 18.29 |
| | | 1732.5 (20175) | 20.27 | 20.17 | 20.19 | 18.20 |
| | | 1711.5 (19965) | 20.31 | 20.19 | 20.30 | 18.10 |
| | 15RB (0) | 1753.5 (20385) | 20.33 | 20.27 | 20.27 | 18.14 |
| | | 1732.5 (20175) | 20.17 | 20.15 | 20.25 | 18.10 |
| | | 1711.5 (19965) | 20.33 | 20.24 | 20.18 | 18.15 |

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|---|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 1752.5 (20375) | 20.25 | 20.32 | 20.21 | 18.21 |
| | | 1732.5 (20175) | 20.27 | 20.15 | 20.24 | 18.24 |
| | | 1712.5 (19975) | 20.18 | 20.32 | 20.33 | 18.26 |
| | 1RB-Middle (12) | 1752.5 (20375) | 20.28 | 20.17 | 20.35 | 18.10 |
| | | 1732.5 (20175) | 20.34 | 20.21 | 20.33 | 18.24 |
| | | 1712.5 (19975) | 20.22 | 20.19 | 20.35 | 18.30 |
| | 1RB-Low (0) | 1752.5 (20375) | 20.22 | 20.29 | 20.15 | 18.26 |
| | | 1732.5 (20175) | 20.35 | 20.23 | 20.27 | 18.30 |
| | | 1712.5 (19975) | 20.29 | 20.25 | 20.15 | 18.20 |
| | 12RB-High (13) | 1752.5 (20375) | 20.18 | 20.23 | 20.33 | 18.16 |
| | | 1732.5 (20175) | 20.16 | 20.21 | 20.24 | 18.30 |
| | | 1712.5 (19975) | 20.27 | 20.35 | 20.28 | 18.14 |
| | 12RB-Middle (6) | 1752.5 (20375) | 20.29 | 20.19 | 20.34 | 18.19 |
| | | 1732.5 (20175) | 20.31 | 20.33 | 20.28 | 18.26 |
| | | 1712.5 (19975) | 20.15 | 20.19 | 20.19 | 18.24 |
| | 12RB-Low (0) | 1752.5 (20375) | 20.16 | 20.16 | 20.32 | 18.30 |
| | | 1732.5 (20175) | 20.27 | 20.19 | 20.26 | 18.28 |
| | | 1712.5 (19975) | 20.24 | 20.18 | 20.34 | 18.11 |
| | 25RB (0) | 1752.5 (20375) | 20.15 | 20.33 | 20.24 | 18.30 |
| | | 1732.5 (20175) | 20.18 | 20.18 | 20.19 | 18.16 |
| | | 1712.5 (19975) | 20.22 | 20.31 | 20.26 | 18.11 |
| | | | | | | |
| 10MHz | 1RB-High (49) | 1750 (20350) | 20.17 | 20.35 | 20.34 | 18.20 |
| | | 1732.5 (20175) | 20.34 | 20.30 | 20.24 | 18.22 |
| | | 1715 (20000) | 20.24 | 20.21 | 20.31 | 18.28 |
| | 1RB-Middle (24) | 1750 (20350) | 20.18 | 20.16 | 20.30 | 18.16 |
| | | 1732.5 (20175) | 20.31 | 20.22 | 20.15 | 18.19 |
| | | 1715 (20000) | 20.23 | 20.30 | 20.22 | 18.23 |
| | 1RB-Low (0) | 1750 (20350) | 20.34 | 20.35 | 20.30 | 18.23 |
| | | 1732.5 (20175) | 20.28 | 20.35 | 20.29 | 18.24 |
| | | 1715 (20000) | 20.24 | 20.27 | 20.34 | 18.15 |
| | 25RB-High (25) | 1750 (20350) | 20.21 | 20.30 | 20.24 | 18.26 |
| | | 1732.5 (20175) | 20.32 | 20.20 | 20.32 | 18.30 |
| | | 1715 (20000) | 20.31 | 20.25 | 20.28 | 18.21 |
| | 25RB-Middle (12) | 1750 (20350) | 20.24 | 20.16 | 20.23 | 18.26 |
| | | 1732.5 (20175) | 20.17 | 20.15 | 20.21 | 18.27 |
| | | 1715 (20000) | 20.23 | 20.30 | 20.35 | 18.11 |
| | 25RB-Low (0) | 1750 (20350) | 20.15 | 20.30 | 20.20 | 18.23 |
| | | 1732.5 (20175) | 20.27 | 20.23 | 20.28 | 18.13 |
| | | 1715 (20000) | 20.18 | 20.26 | 20.23 | 18.12 |
| | 50RB (0) | 1750 (20350) | 20.22 | 20.16 | 20.21 | 18.16 |
| | | 1732.5 (20175) | 20.25 | 20.15 | 20.27 | 18.10 |
| | | 1715 (20000) | 20.23 | 20.20 | 20.22 | 18.19 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 1747.5 (20325) | 20.28 | 20.19 | 20.32 | 18.22 |
| | | 1732.5 (20175) | 20.26 | 20.15 | 20.26 | 18.12 |
| | | 1717.5 (20025) | 20.20 | 20.25 | 20.24 | 18.22 |
| | 1RB-Middle (37) | 1747.5 (20325) | 20.31 | 20.25 | 20.28 | 18.13 |
| | | 1732.5 (20175) | 20.29 | 20.29 | 20.15 | 18.28 |
| | | 1717.5 (20025) | 20.28 | 20.33 | 20.17 | 18.19 |
| | 1RB-Low (0) | 1747.5 (20325) | 20.15 | 20.16 | 20.31 | 18.16 |
| | | 1732.5 (20175) | 20.33 | 20.31 | 20.15 | 18.23 |
| | | 1717.5 (20025) | 20.25 | 20.20 | 20.27 | 18.25 |
| | 36RB-High (38) | 1747.5 (20325) | 20.24 | 20.30 | 20.31 | 18.12 |
| | | 1732.5 (20175) | 20.33 | 20.31 | 20.25 | 18.29 |
| | | 1717.5 (20025) | 20.31 | 20.22 | 20.30 | 18.30 |
| | 36RB-Middle (19) | 1747.5 (20325) | 20.29 | 20.35 | 20.20 | 18.10 |
| | | 1732.5 (20175) | 20.29 | 20.30 | 20.34 | 18.25 |
| | | 1717.5 (20025) | 20.34 | 20.35 | 20.25 | 18.27 |
| | 36RB-Low (0) | 1747.5 (20325) | 20.17 | 20.20 | 20.33 | 18.17 |
| | | 1732.5 (20175) | 20.17 | 20.18 | 20.32 | 18.10 |
| | | 1717.5 (20025) | 20.21 | 20.31 | 20.27 | 18.29 |
| | 75RB (0) | 1747.5 (20325) | 20.34 | 20.21 | 20.23 | 18.28 |
| | | 1732.5 (20175) | 20.34 | 20.24 | 20.32 | 18.18 |
| | | 1717.5 (20025) | 20.20 | 20.23 | 20.27 | 18.10 |
| | | | | | | |
| 20MHz | 1RB-High (99) | 1745 (20300) | 20.32 | 20.35 | 20.30 | 18.18 |
| | | 1732.5 (20175) | 20.30 | 20.15 | 20.24 | 18.18 |
| | | 1720 (20050) | 20.29 | 20.24 | 20.21 | 18.28 |
| | 1RB-Middle (50) | 1745 (20300) | 20.30 | 20.27 | 20.21 | 18.25 |
| | | 1732.5 (20175) | 20.27 | 20.34 | 20.35 | 18.19 |
| | | 1720 (20050) | 20.21 | 20.21 | 20.24 | 18.25 |
| | 1RB-Low (0) | 1745 (20300) | 20.26 | 20.21 | 20.29 | 18.12 |
| | | 1732.5 (20175) | 20.20 | 20.15 | 20.15 | 18.19 |
| | | 1720 (20050) | 20.19 | 20.29 | 20.17 | 18.14 |
| | 50RB-High (50) | 1745 (20300) | 20.28 | 20.16 | 20.15 | 18.13 |
| | | 1732.5 (20175) | 20.27 | 20.24 | 20.24 | 18.15 |
| | | 1720 (20050) | 20.23 | 20.18 | 20.34 | 18.28 |
| | 50RB-Middle (25) | 1745 (20300) | 20.29 | 20.32 | 20.31 | 18.26 |
| | | 1732.5 (20175) | 20.24 | 20.30 | 20.20 | 18.29 |
| | | 1720 (20050) | 20.19 | 20.18 | 20.15 | 18.19 |
| | 50RB-Low (0) | 1745 (20300) | 20.26 | 20.20 | 20.28 | 18.16 |
| | | 1732.5 (20175) | 20.18 | 20.30 | 20.22 | 18.29 |
| | | 1720 (20050) | 20.16 | 20.34 | 20.33 | 18.10 |
| | 100RB (0) | 1745 (20300) | 20.28 | 20.25 | 20.23 | 18.14 |
| | | 1732.5 (20175) | 20.23 | 20.30 | 20.31 | 18.15 |
| | | 1720 (20050) | 20.17 | 20.21 | 20.24 | 18.22 |

**LTE Band4 ANT5_F**

| BANDWIDTH | Number of RBs | Frequency | QPSK | 16QAM | 64QAM | 256QAM |
|---|---|---|---|---|---|---|
| 1.4MHz | 1RB-High (5) | 1754.3 (20393) | 22.30 | 22.43 | 21.58 | 18.19 |
| | | 1732.5 (20175) | 22.07 | 22.17 | 21.53 | 18.10 |
| | | 1710.7 (19957) | 22.24 | 22.27 | 21.47 | 18.10 |
| | 1RB-Middle (3) | 1754.3 (20393) | 22.01 | 22.41 | 21.33 | 18.14 |
| | | 1732.5 (20175) | 22.08 | 22.46 | 21.46 | 18.25 |
| | | 1710.7 (19957) | 22.06 | 22.28 | 21.55 | 18.28 |
| | 1RB-Low (0) | 1754.3 (20393) | 22.25 | 22.36 | 21.29 | 18.27 |
| | | 1732.5 (20175) | 22.18 | 22.34 | 21.57 | 18.26 |
| | | 1710.7 (19957) | 21.97 | 22.23 | 21.55 | 18.25 |
| | 3RB-High (3) | 1754.3 (20393) | 22.25 | 22.24 | 21.35 | 18.19 |
| | | 1732.5 (20175) | 22.29 | 22.23 | 21.48 | 18.14 |
| | | 1710.7 (19957) | 22.15 | 22.45 | 21.31 | 18.24 |
| | 3RB-Middle (1) | 1754.3 (20393) | 22.30 | 22.41 | 21.55 | 18.10 |
| | | 1732.5 (20175) | 22.07 | 22.16 | 21.24 | 18.27 |
| | | 1710.7 (19957) | 21.97 | 22.44 | 21.49 | 18.27 |
| | 3RB-Low (0) | 1754.3 (20393) | 22.19 | 22.49 | 21.54 | 18.28 |
| | | 1732.5 (20175) | 22.21 | 22.31 | 21.48 | 18.14 |
| | | 1710.7 (19957) | 22.13 | 22.37 | 21.30 | 18.15 |
| | 6RB (0) | 1754.3 (20393) | 22.28 | 21.38 | 20.53 | 18.21 |
| | | 1732.5 (20175) | 21.98 | 21.16 | 20.46 | 18.21 |
| | | 1710.7 (19957) | 22.05 | 21.39 | 20.39 | 18.19 |
| | | | | | | |
| 3MHz | 1RB-High (14) | 1753.5 (20385) | 22.14 | 22.32 | 21.34 | 18.29 |
| | | 1732.5 (20175) | 22.04 | 22.47 | 21.28 | 18.30 |
| | | 1711.5 (19965) | 22.22 | 22.23 | 21.33 | 18.11 |
| | 1RB-Middle (7) | 1753.5 (20385) | 22.03 | 22.48 | 21.59 | 18.20 |
| | | 1732.5 (20175) | 22.27 | 22.15 | 21.57 | 18.16 |
| | | 1711.5 (19965) | 22.30 | 22.42 | 21.34 | 18.22 |
| | 1RB-Low (0) | 1753.5 (20385) | 22.13 | 22.34 | 21.48 | 18.10 |
| | | 1732.5 (20175) | 22.27 | 22.26 | 21.47 | 18.30 |
| | | 1711.5 (19965) | 21.97 | 22.43 | 21.56 | 18.27 |
| | 8RB-High (7) | 1753.5 (20385) | 22.09 | 21.18 | 20.48 | 18.18 |
| | | 1732.5 (20175) | 21.97 | 21.50 | 20.53 | 18.15 |
| | | 1711.5 (19965) | 22.29 | 21.37 | 20.36 | 18.12 |
| | 8RB-Middle (4) | 1753.5 (20385) | 22.06 | 21.39 | 20.29 | 18.22 |
| | | 1732.5 (20175) | 21.95 | 21.26 | 20.29 | 18.30 |
| | | 1711.5 (19965) | 22.09 | 21.31 | 20.25 | 18.16 |
| | 8RB-Low (0) | 1753.5 (20385) | 22.21 | 21.31 | 20.35 | 18.28 |
| | | 1732.5 (20175) | 22.05 | 21.26 | 20.57 | 18.26 |
| | | 1711.5 (19965) | 21.99 | 21.49 | 20.55 | 18.25 |
| | 15RB (0) | 1753.5 (20385) | 22.29 | 21.27 | 20.57 | 18.10 |
| | | 1732.5 (20175) | 21.98 | 21.33 | 20.43 | 18.12 |
| | | 1711.5 (19965) | 22.04 | 21.27 | 20.35 | 18.22 |

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|---|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 1752.5 (20375) | 22.27 | 22.39 | 21.40 | 18.12 |
| | | 1732.5 (20175) | 22.01 | 22.28 | 21.36 | 18.21 |
| | | 1712.5 (19975) | 21.97 | 22.37 | 21.55 | 18.23 |
| | 1RB-Middle (12) | 1752.5 (20375) | 22.07 | 22.17 | 21.42 | 18.28 |
| | | 1732.5 (20175) | 22.00 | 22.37 | 21.42 | 18.19 |
| | | 1712.5 (19975) | 22.22 | 22.47 | 21.53 | 18.13 |
| | 1RB-Low (0) | 1752.5 (20375) | 22.23 | 22.35 | 21.29 | 18.28 |
| | | 1732.5 (20175) | 22.13 | 22.49 | 21.45 | 18.27 |
| | | 1712.5 (19975) | 22.14 | 22.22 | 21.46 | 18.28 |
| | 12RB-High (13) | 1752.5 (20375) | 22.29 | 21.45 | 20.25 | 18.23 |
| | | 1732.5 (20175) | 22.02 | 21.49 | 20.40 | 18.12 |
| | | 1712.5 (19975) | 22.22 | 21.31 | 20.47 | 18.22 |
| | 12RB-Middle (6) | 1752.5 (20375) | 22.19 | 21.16 | 20.40 | 18.17 |
| | | 1732.5 (20175) | 22.16 | 21.42 | 20.37 | 18.26 |
| | | 1712.5 (19975) | 22.26 | 21.40 | 20.26 | 18.18 |
| | 12RB-Low (0) | 1752.5 (20375) | 22.09 | 21.48 | 20.46 | 18.14 |
| | | 1732.5 (20175) | 22.02 | 21.27 | 20.51 | 18.11 |
| | | 1712.5 (19975) | 22.24 | 21.47 | 20.42 | 18.22 |
| | 25RB (0) | 1752.5 (20375) | 22.18 | 21.43 | 20.33 | 18.14 |
| | | 1732.5 (20175) | 22.01 | 21.34 | 20.38 | 18.14 |
| | | 1712.5 (19975) | 21.96 | 21.34 | 20.27 | 18.29 |
| | | | | | | |
| 10MHz | 1RB-High (49) | 1750 (20350) | 22.05 | 22.50 | 21.51 | 18.18 |
| | | 1732.5 (20175) | 22.25 | 22.36 | 21.56 | 18.16 |
| | | 1715 (20000) | 22.02 | 22.44 | 21.27 | 18.16 |
| | 1RB-Middle (24) | 1750 (20350) | 21.99 | 22.17 | 21.33 | 18.11 |
| | | 1732.5 (20175) | 22.00 | 22.24 | 21.26 | 18.10 |
| | | 1715 (20000) | 22.26 | 22.44 | 21.32 | 18.23 |
| | 1RB-Low (0) | 1750 (20350) | 22.16 | 22.28 | 21.35 | 18.18 |
| | | 1732.5 (20175) | 22.25 | 22.35 | 21.30 | 18.28 |
| | | 1715 (20000) | 22.14 | 22.47 | 21.32 | 18.19 |
| | 25RB-High (25) | 1750 (20350) | 22.20 | 21.50 | 20.57 | 18.25 |
| | | 1732.5 (20175) | 21.99 | 21.24 | 20.54 | 18.16 |
| | | 1715 (20000) | 22.25 | 21.18 | 20.49 | 18.14 |
| | 25RB-Middle (12) | 1750 (20350) | 22.05 | 21.49 | 20.55 | 18.13 |
| | | 1732.5 (20175) | 22.25 | 21.36 | 20.31 | 18.21 |
| | | 1715 (20000) | 22.18 | 21.49 | 20.34 | 18.10 |
| | 25RB-Low (0) | 1750 (20350) | 22.18 | 21.40 | 20.29 | 18.22 |
| | | 1732.5 (20175) | 22.06 | 21.22 | 20.47 | 18.18 |
| | | 1715 (20000) | 22.24 | 21.44 | 20.48 | 18.27 |
| | 50RB (0) | 1750 (20350) | 22.07 | 21.19 | 20.45 | 18.20 |
| | | 1732.5 (20175) | 22.29 | 21.22 | 20.53 | 18.19 |
| | | 1715 (20000) | 22.00 | 21.38 | 20.29 | 18.10 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 1747.5 (20325) | 22.22 | 22.31 | 21.42 | 18.30 |
| | | 1732.5 (20175) | 22.13 | 22.16 | 21.27 | 18.10 |
| | | 1717.5 (20025) | 22.17 | 22.16 | 21.49 | 18.30 |
| | 1RB-Middle (37) | 1747.5 (20325) | 22.06 | 22.17 | 21.30 | 18.20 |
| | | 1732.5 (20175) | 22.14 | 22.30 | 21.35 | 18.17 |
| | | 1717.5 (20025) | 22.29 | 22.16 | 21.56 | 18.14 |
| | 1RB-Low (0) | 1747.5 (20325) | 21.96 | 22.46 | 21.39 | 18.30 |
| | | 1732.5 (20175) | 22.15 | 22.48 | 21.32 | 18.12 |
| | | 1717.5 (20025) | 22.08 | 22.21 | 21.41 | 18.21 |
| | 36RB-High (38) | 1747.5 (20325) | 22.06 | 21.40 | 20.28 | 18.29 |
| | | 1732.5 (20175) | 22.06 | 21.22 | 20.53 | 18.14 |
| | | 1717.5 (20025) | 22.29 | 21.31 | 20.41 | 18.24 |
| | 36RB-Middle (19) | 1747.5 (20325) | 22.05 | 21.39 | 20.53 | 18.21 |
| | | 1732.5 (20175) | 22.22 | 21.42 | 20.23 | 18.26 |
| | | 1717.5 (20025) | 22.12 | 21.42 | 20.55 | 18.30 |
| | 36RB-Low (0) | 1747.5 (20325) | 22.29 | 21.34 | 20.47 | 18.26 |
| | | 1732.5 (20175) | 22.28 | 21.45 | 20.48 | 18.15 |
| | | 1717.5 (20025) | 21.98 | 21.40 | 20.57 | 18.23 |
| | 75RB (0) | 1747.5 (20325) | 22.13 | 21.48 | 20.44 | 18.28 |
| | | 1732.5 (20175) | 22.22 | 21.50 | 20.38 | 18.21 |
| | | 1717.5 (20025) | 21.99 | 21.16 | 20.29 | 18.28 |
| | | | | | | |
| 20MHz | 1RB-High (99) | 1745 (20300) | 22.22 | 22.19 | 21.26 | 18.18 |
| | | 1732.5 (20175) | 22.19 | 22.39 | 21.24 | 18.19 |
| | | 1720 (20050) | 22.18 | 22.31 | 21.42 | 18.15 |
| | 1RB-Middle (50) | 1745 (20300) | 22.16 | 22.42 | 21.41 | 18.17 |
| | | 1732.5 (20175) | 22.17 | 22.23 | 21.48 | 18.30 |
| | | 1720 (20050) | 22.16 | 22.16 | 21.55 | 18.30 |
| | 1RB-Low (0) | 1745 (20300) | 22.18 | 22.27 | 21.38 | 18.21 |
| | | 1732.5 (20175) | 22.14 | 22.46 | 21.36 | 18.30 |
| | | 1720 (20050) | 22.16 | 22.22 | 21.56 | 18.22 |
| | 50RB-High (50) | 1745 (20300) | 22.19 | 21.22 | 20.46 | 18.30 |
| | | 1732.5 (20175) | 22.18 | 21.17 | 20.33 | 18.26 |
| | | 1720 (20050) | 22.16 | 21.15 | 20.48 | 18.22 |
| | 50RB-Middle (25) | 1745 (20300) | 22.14 | 21.32 | 20.49 | 18.24 |
| | | 1732.5 (20175) | 22.16 | 21.22 | 20.58 | 18.24 |
| | | 1720 (20050) | 22.15 | 21.23 | 20.56 | 18.25 |
| | 50RB-Low (0) | 1745 (20300) | 22.13 | 21.25 | 20.41 | 18.17 |
| | | 1732.5 (20175) | 22.11 | 21.23 | 20.33 | 18.11 |
| | | 1720 (20050) | 22.13 | 21.23 | 20.24 | 18.13 |
| | 100RB (0) | 1745 (20300) | 22.14 | 21.20 | 20.39 | 18.12 |
| | | 1732.5 (20175) | 22.15 | 21.17 | 20.46 | 18.21 |
| | | 1720 (20050) | 22.16 | 21.44 | 20.57 | 18.12 |

**LTE Band5 ANT1_A/B/C**

| BANDWIDTH | Number of RBs | Frequency | QPSK | 16QAM | 64QAM | 256QAM |
|---|---|---|---|---|---|---|
| 1.4MHz | 1RB-High (5) | 848.3 (20643) | 23.36 | 22.90 | 21.77 | 18.90 |
| | | 836.5 (20525) | 23.62 | 22.98 | 21.99 | 19.05 |
| | | 824.7 (20407) | 23.55 | 23.00 | 21.88 | 18.67 |
| | 1RB-Middle (3) | 848.3 (20643) | 23.45 | 22.78 | 21.85 | 18.94 |
| | | 836.5 (20525) | 23.56 | 23.01 | 21.83 | 18.91 |
| | | 824.7 (20407) | 23.51 | 22.89 | 21.90 | 18.76 |
| | 1RB-Low (0) | 848.3 (20643) | 23.48 | 22.95 | 21.82 | 18.96 |
| | | 836.5 (20525) | 23.60 | 22.96 | 21.91 | 19.01 |
| | | 824.7 (20407) | 23.58 | 22.97 | 21.85 | 18.69 |
| | 3RB-High (3) | 848.3 (20643) | 23.58 | 22.70 | 21.68 | 18.82 |
| | | 836.5 (20525) | 23.57 | 22.74 | 21.77 | 19.08 |
| | | 824.7 (20407) | 23.69 | 22.73 | 21.79 | 18.97 |
| | 3RB-Middle (1) | 848.3 (20643) | 23.44 | 22.62 | 21.73 | 18.79 |
| | | 836.5 (20525) | 23.51 | 22.81 | 21.75 | 18.76 |
| | | 824.7 (20407) | 23.56 | 22.74 | 21.88 | 18.70 |
| | 3RB-Low (0) | 848.3 (20643) | 23.52 | 22.59 | 21.74 | 18.94 |
| | | 836.5 (20525) | 23.60 | 22.69 | 21.71 | 18.92 |
| | | 824.7 (20407) | 23.51 | 22.74 | 21.80 | 19.03 |
| | 6RB (0) | 848.3 (20643) | 22.66 | 21.74 | 20.61 | 18.75 |
| | | 836.5 (20525) | 22.65 | 21.70 | 20.70 | 18.94 |
| | | 824.7 (20407) | 22.74 | 21.79 | 20.71 | 18.79 |
| | | | | | | |
| 3MHz | 1RB-High (14) | 847.5 (20635) | 23.49 | 22.74 | 21.84 | 18.90 |
| | | 836.5 (20525) | 23.59 | 22.99 | 21.83 | 18.76 |
| | | 825.5 (20415) | 23.60 | 22.93 | 21.91 | 18.98 |
| | 1RB-Middle (7) | 847.5 (20635) | 23.53 | 22.83 | 21.80 | 19.03 |
| | | 836.5 (20525) | 23.64 | 22.96 | 21.94 | 18.78 |
| | | 825.5 (20415) | 23.68 | 23.03 | 21.90 | 18.93 |
| | 1RB-Low (0) | 847.5 (20635) | 23.47 | 22.90 | 21.74 | 18.94 |
| | | 836.5 (20525) | 23.58 | 22.96 | 21.88 | 18.76 |
| | | 825.5 (20415) | 23.49 | 22.94 | 21.92 | 18.99 |
| | 8RB-High (7) | 847.5 (20635) | 22.62 | 21.72 | 20.68 | 18.86 |
| | | 836.5 (20525) | 22.71 | 21.77 | 20.75 | 18.88 |
| | | 825.5 (20415) | 22.74 | 21.75 | 20.80 | 18.84 |
| | 8RB-Middle (4) | 847.5 (20635) | 22.63 | 21.73 | 20.67 | 18.80 |
| | | 836.5 (20525) | 22.69 | 21.72 | 20.75 | 18.84 |
| | | 825.5 (20415) | 22.75 | 21.78 | 20.80 | 18.80 |
| | 8RB-Low (0) | 847.5 (20635) | 22.68 | 21.75 | 20.64 | 18.79 |
| | | 836.5 (20525) | 22.72 | 21.78 | 20.74 | 18.80 |
| | | 825.5 (20415) | 22.76 | 21.82 | 20.78 | 19.05 |
| | 15RB (0) | 847.5 (20635) | 22.65 | 21.62 | 20.64 | 18.82 |
| | | 836.5 (20525) | 22.68 | 21.68 | 20.67 | 18.81 |
| | | 825.5 (20415) | 22.74 | 21.72 | 20.70 | 18.82 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 846.5 (20625) | 23.58 | 22.94 | 21.83 | 19.09 |
| | | 836.5 (20525) | 23.63 | 23.01 | 21.89 | 19.14 |
| | | 826.5 (20425) | 23.68 | 22.94 | 21.93 | 19.20 |
| | 1RB-Middle (12) | 846.5 (20625) | 23.55 | 22.93 | 21.83 | 18.86 |
| | | 836.5 (20525) | 23.76 | 22.92 | 21.90 | 18.78 |
| | | 826.5 (20425) | 23.73 | 23.13 | 22.02 | 18.82 |
| | 1RB-Low (0) | 846.5 (20625) | 23.57 | 22.97 | 21.82 | 19.07 |
| | | 836.5 (20525) | 23.62 | 23.03 | 21.92 | 19.15 |
| | | 826.5 (20425) | 23.63 | 22.90 | 21.95 | 19.18 |
| | 12RB-High (13) | 846.5 (20625) | 22.68 | 21.73 | 20.67 | 18.74 |
| | | 836.5 (20525) | 22.71 | 21.75 | 20.75 | 18.99 |
| | | 826.5 (20425) | 22.76 | 21.76 | 20.78 | 19.05 |
| | 12RB-Middle (6) | 846.5 (20625) | 22.69 | 21.75 | 20.72 | 18.83 |
| | | 836.5 (20525) | 22.73 | 21.80 | 20.75 | 18.89 |
| | | 826.5 (20425) | 22.78 | 21.74 | 20.79 | 18.81 |
| | 12RB-Low (0) | 846.5 (20625) | 22.74 | 21.76 | 20.74 | 18.71 |
| | | 836.5 (20525) | 22.71 | 21.78 | 20.77 | 18.72 |
| | | 826.5 (20425) | 22.77 | 21.77 | 20.86 | 18.99 |
| | 25RB (0) | 846.5 (20625) | 22.74 | 21.69 | 20.69 | 18.83 |
| | | 836.5 (20525) | 22.80 | 21.74 | 20.75 | 18.91 |
| | | 826.5 (20425) | 22.80 | 21.78 | 20.78 | 18.87 |
| | | | | | | |
| 10MHz | 1RB-High (49) | 844 (20600) | 23.62 | 22.90 | 21.77 | 19.01 |
| | | 836.5 (20525) | 23.65 | 22.96 | 21.82 | 18.82 |
| | | 829 (20450) | 23.69 | 22.92 | 21.76 | 19.07 |
| | 1RB-Middle (24) | 844 (20600) | 23.61 | 22.95 | 21.98 | 18.97 |
| | | 836.5 (20525) | 23.64 | 22.99 | 21.91 | 18.80 |
| | | 829 (20450) | 23.68 | 22.93 | 21.95 | 18.77 |
| | 1RB-Low (0) | 844 (20600) | 23.75 | 23.09 | 21.90 | 19.08 |
| | | 836.5 (20525) | 23.73 | 23.02 | 21.91 | 18.81 |
| | | 829 (20450) | 23.69 | 22.94 | 21.93 | 18.99 |
| | 25RB-High (25) | 844 (20600) | 22.70 | 21.70 | 20.67 | 18.87 |
| | | 836.5 (20525) | 22.74 | 21.68 | 20.72 | 18.96 |
| | | 829 (20450) | 22.77 | 21.74 | 20.72 | 18.72 |
| | 25RB-Middle (12) | 844 (20600) | 22.72 | 21.73 | 20.69 | 18.85 |
| | | 836.5 (20525) | 22.74 | 21.76 | 20.71 | 18.92 |
| | | 829 (20450) | 22.79 | 21.78 | 20.76 | 18.86 |
| | 25RB-Low (0) | 844 (20600) | 22.80 | 21.74 | 20.74 | 19.08 |
| | | 836.5 (20525) | 22.75 | 21.75 | 20.72 | 18.73 |
| | | 829 (20450) | 22.81 | 21.78 | 20.79 | 18.70 |
| | 50RB (0) | 844 (20600) | 22.74 | 21.75 | 20.70 | 18.88 |
| | | 836.5 (20525) | 22.73 | 21.72 | 20.73 | 18.84 |
| | | 829 (20450) | 22.79 | 21.78 | 20.75 | 18.88 |

**LTE Band12 ANT1_A/B/C**

| BANDWIDTH | Number of RBs | Frequency | QPSK | 16QAM | 64QAM | 256QAM |
|---|---|---|---|---|---|---|
| 1.4MHz | 1RB-High (5) | 715.3 (23173) | 23.50 | 22.83 | 21.73 | 18.80 |
| | | 707.5 (23095) | 23.60 | 22.85 | 21.81 | 18.51 |
| | | 699.7 (23017) | 23.60 | 22.91 | 21.79 | 18.83 |
| | 1RB-Middle (3) | 715.3 (23173) | 23.60 | 22.81 | 21.79 | 18.75 |
| | | 707.5 (23095) | 23.68 | 22.76 | 21.83 | 18.69 |
| | | 699.7 (23017) | 23.52 | 22.83 | 21.73 | 18.74 |
| | 1RB-Low (0) | 715.3 (23173) | 23.52 | 22.76 | 21.73 | 18.78 |
| | | 707.5 (23095) | 23.63 | 22.91 | 21.88 | 18.56 |
| | | 699.7 (23017) | 23.64 | 22.86 | 21.81 | 18.90 |
| | 3RB-High (3) | 715.3 (23173) | 23.71 | 22.64 | 21.67 | 18.62 |
| | | 707.5 (23095) | 23.61 | 22.58 | 21.71 | 18.56 |
| | | 699.7 (23017) | 23.67 | 22.50 | 21.67 | 18.80 |
| | 3RB-Middle (1) | 715.3 (23173) | 23.64 | 22.53 | 21.62 | 18.53 |
| | | 707.5 (23095) | 23.57 | 22.56 | 21.66 | 18.57 |
| | | 699.7 (23017) | 23.60 | 22.72 | 21.70 | 18.67 |
| | 3RB-Low (0) | 715.3 (23173) | 23.66 | 22.51 | 21.71 | 18.67 |
| | | 707.5 (23095) | 23.62 | 22.57 | 21.68 | 18.63 |
| | | 699.7 (23017) | 23.60 | 22.64 | 21.69 | 18.57 |
| | 6RB (0) | 715.3 (23173) | 22.62 | 21.63 | 20.52 | 18.67 |
| | | 707.5 (23095) | 22.65 | 21.66 | 20.59 | 18.66 |
| | | 699.7 (23017) | 22.62 | 21.69 | 20.53 | 18.70 |
| | | | | | | |
| 3MHz | 1RB-High (14) | 714.5 (23165) | 23.53 | 22.84 | 21.73 | 18.73 |
| | | 707.5 (23095) | 23.65 | 22.73 | 21.84 | 18.47 |
| | | 700.5 (23025) | 23.59 | 22.81 | 21.88 | 18.86 |
| | 1RB-Middle (7) | 714.5 (23165) | 23.56 | 22.90 | 21.76 | 18.61 |
| | | 707.5 (23095) | 23.76 | 22.95 | 21.90 | 18.78 |
| | | 700.5 (23025) | 23.57 | 22.81 | 21.87 | 18.55 |
| | 1RB-Low (0) | 714.5 (23165) | 23.51 | 22.90 | 21.73 | 18.81 |
| | | 707.5 (23095) | 23.68 | 22.91 | 21.86 | 18.54 |
| | | 700.5 (23025) | 23.63 | 22.91 | 21.68 | 18.92 |
| | 8RB-High (7) | 714.5 (23165) | 22.54 | 21.60 | 20.59 | 18.57 |
| | | 707.5 (23095) | 22.60 | 21.65 | 20.61 | 18.63 |
| | | 700.5 (23025) | 22.58 | 21.69 | 20.67 | 18.74 |
| | 8RB-Middle (4) | 714.5 (23165) | 22.55 | 21.63 | 20.55 | 18.57 |
| | | 707.5 (23095) | 22.62 | 21.69 | 20.71 | 18.64 |
| | | 700.5 (23025) | 22.61 | 21.68 | 20.68 | 18.77 |
| | 8RB-Low (0) | 714.5 (23165) | 22.61 | 21.71 | 20.66 | 18.70 |
| | | 707.5 (23095) | 22.63 | 21.72 | 20.74 | 18.59 |
| | | 700.5 (23025) | 22.61 | 21.64 | 20.69 | 18.65 |
| | 15RB (0) | 714.5 (23165) | 22.57 | 21.54 | 20.55 | 18.57 |
| | | 707.5 (23095) | 22.61 | 21.62 | 20.59 | 18.62 |
| | | 700.5 (23025) | 22.61 | 21.61 | 20.60 | 18.77 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 713.5 (23155) | 23.67 | 22.86 | 21.80 | 19.01 |
| | | 707.5 (23095) | 23.66 | 22.88 | 21.87 | 18.89 |
| | | 701.5 (23035) | 23.72 | 22.75 | 21.77 | 19.11 |
| | 1RB-Middle (12) | 713.5 (23155) | 23.67 | 22.96 | 21.77 | 18.61 |
| | | 707.5 (23095) | 23.65 | 22.95 | 21.92 | 18.68 |
| | | 701.5 (23035) | 23.63 | 22.89 | 21.72 | 18.61 |
| | 1RB-Low (0) | 713.5 (23155) | 23.72 | 22.99 | 21.94 | 18.94 |
| | | 707.5 (23095) | 23.70 | 22.86 | 21.86 | 19.02 |
| | | 701.5 (23035) | 23.67 | 22.93 | 21.81 | 19.18 |
| | 12RB-High (13) | 713.5 (23155) | 22.60 | 21.61 | 20.62 | 18.67 |
| | | 707.5 (23095) | 22.62 | 21.64 | 20.64 | 18.74 |
| | | 701.5 (23035) | 22.69 | 21.64 | 20.70 | 18.72 |
| | 12RB-Middle (6) | 713.5 (23155) | 22.65 | 21.65 | 20.63 | 18.67 |
| | | 707.5 (23095) | 22.64 | 21.63 | 20.67 | 18.68 |
| | | 701.5 (23035) | 22.67 | 21.69 | 20.68 | 18.81 |
| | 12RB-Low (0) | 713.5 (23155) | 22.67 | 21.66 | 20.69 | 18.71 |
| | | 707.5 (23095) | 22.70 | 21.71 | 20.72 | 18.71 |
| | | 701.5 (23035) | 22.68 | 21.65 | 20.67 | 18.55 |
| | 25RB (0) | 713.5 (23155) | 22.64 | 21.59 | 20.61 | 18.64 |
| | | 707.5 (23095) | 22.69 | 21.64 | 20.71 | 18.70 |
| | | 701.5 (23035) | 22.68 | 21.66 | 20.67 | 18.79 |
| | | | | | | |
| 10MHz | 1RB-High (49) | 711 (23130) | 23.54 | 22.85 | 21.73 | 18.87 |
| | | 707.5 (23095) | 23.69 | 22.91 | 21.76 | 18.55 |
| | | 704 (23060) | 23.64 | 22.92 | 21.76 | 18.83 |
| | 1RB-Middle (24) | 711 (23130) | 23.68 | 22.86 | 21.86 | 18.57 |
| | | 707.5 (23095) | 23.66 | 22.96 | 21.77 | 18.67 |
| | | 704 (23060) | 23.67 | 22.80 | 21.86 | 18.79 |
| | 1RB-Low (0) | 711 (23130) | 23.75 | 22.99 | 21.79 | 18.95 |
| | | 707.5 (23095) | 23.71 | 23.01 | 21.83 | 18.62 |
| | | 704 (23060) | 23.74 | 22.89 | 21.75 | 18.89 |
| | 25RB-High (25) | 711 (23130) | 22.57 | 21.57 | 20.55 | 18.56 |
| | | 707.5 (23095) | 22.65 | 21.63 | 20.62 | 18.62 |
| | | 704 (23060) | 22.66 | 21.65 | 20.65 | 18.73 |
| | 25RB-Middle (12) | 711 (23130) | 22.63 | 21.63 | 20.64 | 18.68 |
| | | 707.5 (23095) | 22.67 | 21.66 | 20.65 | 18.73 |
| | | 704 (23060) | 22.70 | 21.67 | 20.64 | 18.76 |
| | 25RB-Low (0) | 711 (23130) | 22.67 | 21.65 | 20.64 | 18.77 |
| | | 707.5 (23095) | 22.68 | 21.67 | 20.69 | 18.57 |
| | | 704 (23060) | 22.67 | 21.66 | 20.66 | 18.67 |
| | 50RB (0) | 711 (23130) | 22.61 | 21.59 | 20.60 | 18.65 |
| | | 707.5 (23095) | 22.65 | 21.67 | 20.66 | 18.67 |
| | | 704 (23060) | 22.65 | 21.64 | 20.65 | 18.82 |

**LTE Band13 ANT1_A/B/C**

| BANDWIDTH | Number of RBs | Frequency | QPSK | 16QAM | 64QAM | 256QAM |
|---|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 784.5 (23255) | 23.72 | 23.19 | 22.15 | 19.35 |
| | | 782 (23230) | 23.84 | 23.05 | 22.00 | 19.25 |
| | | 779.5 (23205) | 23.72 | 23.07 | 21.98 | 19.40 |
| | 1RB-Middle (12) | 784.5 (23255) | 23.81 | 23.23 | 22.00 | 19.32 |
| | | 782 (23230) | 23.92 | 23.35 | 22.08 | 19.33 |
| | | 779.5 (23205) | 23.95 | 23.14 | 22.10 | 19.38 |
| | 1RB-Low (0) | 784.5 (23255) | 23.89 | 23.14 | 22.06 | 19.36 |
| | | 782 (23230) | 23.79 | 23.22 | 21.99 | 19.23 |
| | | 779.5 (23205) | 23.68 | 23.04 | 21.92 | 19.37 |
| | 12RB-High (13) | 784.5 (23255) | 22.83 | 21.87 | 20.91 | 19.35 |
| | | 782 (23230) | 22.89 | 21.93 | 20.93 | 19.36 |
| | | 779.5 (23205) | 22.88 | 21.89 | 20.89 | 19.33 |
| | 12RB-Middle (6) | 784.5 (23255) | 22.87 | 21.91 | 20.90 | 19.03 |
| | | 782 (23230) | 22.90 | 21.91 | 20.91 | 18.99 |
| | | 779.5 (23205) | 22.90 | 21.93 | 20.90 | 18.94 |
| | 12RB-Low (0) | 784.5 (23255) | 22.90 | 21.90 | 20.90 | 19.05 |
| | | 782 (23230) | 22.86 | 21.93 | 20.87 | 19.04 |
| | | 779.5 (23205) | 22.85 | 21.80 | 20.85 | 19.01 |
| | 25RB (0) | 784.5 (23255) | 22.88 | 21.88 | 20.91 | 19.00 |
| | | 782 (23230) | 22.90 | 21.94 | 20.89 | 19.01 |
| | | 779.5 (23205) | 22.89 | 21.85 | 20.84 | 18.99 |
| | | | | | | |
| 10MHz | 1RB-High (49) | 782 (23230) | 23.75 | 23.23 | 22.01 | 19.24 |
| | 1RB-Middle (24) | 782 (23230) | 23.90 | 23.17 | 22.12 | 19.11 |
| | 1RB-Low (0) | 782 (23230) | 23.76 | 23.16 | 21.99 | 19.21 |
| | 25RB-High (25) | 782 (23230) | 22.86 | 21.83 | 20.80 | 19.15 |
| | 25RB-Middle (12) | 782 (23230) | 22.91 | 21.89 | 20.88 | 19.06 |
| | 25RB-Low (0) | 782 (23230) | 22.87 | 21.86 | 20.86 | 18.97 |
| | 50RB (0) | 782 (23230) | 22.84 | 21.81 | 20.80 | 18.99 |

**LTE Band66 ANT1_A/D**

| BANDWIDTH | Number of RBs | Frequency | QPSK | 16QAM | 64QAM | 256QAM |
|---|---|---|---|---|---|---|
| 1.4MHz | 1RB-High (5) | 1779.3 (132665) | 22.88 | 22.21 | 21.10 | 18.40 |
| | | 1745 (132322) | 22.86 | 22.05 | 21.07 | 17.97 |
| | | 1710.7 (131979) | 22.96 | 22.34 | 21.17 | 18.11 |
| | 1RB-Middle (3) | 1779.3 (132665) | 22.91 | 22.01 | 20.97 | 17.90 |
| | | 1745 (132322) | 22.91 | 22.09 | 21.05 | 18.36 |
| | | 1710.7 (131979) | 22.85 | 22.07 | 20.96 | 18.12 |
| | 1RB-Low (0) | 1779.3 (132665) | 22.84 | 22.16 | 20.92 | 18.37 |
| | | 1745 (132322) | 22.88 | 22.17 | 21.06 | 18.00 |
| | | 1710.7 (131979) | 22.97 | 22.20 | 21.32 | 18.08 |
| | 3RB-High (3) | 1779.3 (132665) | 22.84 | 21.72 | 20.87 | 18.27 |
| | | 1745 (132322) | 22.88 | 21.75 | 20.92 | 18.34 |
| | | 1710.7 (131979) | 22.99 | 22.01 | 21.02 | 18.08 |
| | 3RB-Middle (1) | 1779.3 (132665) | 22.83 | 21.73 | 20.84 | 18.13 |
| | | 1745 (132322) | 22.85 | 21.85 | 20.98 | 17.98 |
| | | 1710.7 (131979) | 22.99 | 21.99 | 21.00 | 17.95 |
| | 3RB-Low (0) | 1779.3 (132665) | 22.82 | 21.69 | 20.92 | 18.35 |
| | | 1745 (132322) | 22.90 | 21.86 | 20.93 | 18.20 |
| | | 1710.7 (131979) | 22.96 | 21.98 | 21.01 | 18.11 |
| | 6RB (0) | 1779.3 (132665) | 21.79 | 20.91 | 19.81 | 18.27 |
| | | 1745 (132322) | 21.84 | 20.91 | 19.83 | 18.05 |
| | | 1710.7 (131979) | 22.01 | 21.02 | 19.83 | 17.89 |
| | | | | | | |
| 3MHz | 1RB-High (14) | 1778.5 (132657) | 22.81 | 21.99 | 21.07 | 18.32 |
| | | 1745 (132322) | 22.87 | 22.15 | 20.98 | 17.96 |
| | | 1711.5 (131987) | 22.92 | 22.21 | 21.09 | 18.12 |
| | 1RB-Middle (7) | 1778.5 (132657) | 22.90 | 22.05 | 20.94 | 18.43 |
| | | 1745 (132322) | 22.82 | 22.25 | 21.02 | 18.08 |
| | | 1711.5 (131987) | 22.94 | 22.26 | 21.18 | 18.17 |
| | 1RB-Low (0) | 1778.5 (132657) | 22.89 | 22.05 | 21.08 | 18.41 |
| | | 1745 (132322) | 22.91 | 22.20 | 21.06 | 17.97 |
| | | 1711.5 (131987) | 23.07 | 22.32 | 21.10 | 18.14 |
| | 8RB-High (7) | 1778.5 (132657) | 21.83 | 20.84 | 19.86 | 18.40 |
| | | 1745 (132322) | 21.87 | 20.90 | 19.89 | 18.43 |
| | | 1711.5 (131987) | 21.95 | 21.04 | 19.98 | 17.96 |
| | 8RB-Middle (4) | 1778.5 (132657) | 21.83 | 20.84 | 19.84 | 18.21 |
| | | 1745 (132322) | 21.89 | 20.90 | 19.91 | 18.08 |
| | | 1711.5 (131987) | 21.95 | 21.01 | 20.01 | 17.98 |
| | 8RB-Low (0) | 1778.5 (132657) | 21.85 | 20.84 | 19.83 | 17.97 |
| | | 1745 (132322) | 21.89 | 20.93 | 19.94 | 18.42 |
| | | 1711.5 (131987) | 21.97 | 21.03 | 19.92 | 18.44 |
| | 15RB (0) | 1778.5 (132657) | 21.85 | 20.81 | 19.74 | 18.22 |
| | | 1745 (132322) | 21.84 | 20.88 | 19.83 | 18.10 |
| | | 1711.5 (131987) | 21.96 | 20.98 | 19.96 | 17.99 |

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|---|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 1777.5 (132647) | 22.91 | 22.05 | 21.08 | 18.63 |
| | | 1745 (132322) | 22.94 | 22.25 | 21.03 | 18.40 |
| | | 1712.5 (131997) | 22.96 | 22.19 | 21.14 | 18.27 |
| | 1RB-Middle (12) | 1777.5 (132647) | 22.87 | 22.25 | 21.12 | 18.11 |
| | | 1745 (132322) | 23.10 | 22.23 | 21.01 | 18.17 |
| | | 1712.5 (131997) | 22.98 | 22.29 | 21.23 | 18.29 |
| | 1RB-Low (0) | 1777.5 (132647) | 22.91 | 22.11 | 20.98 | 18.64 |
| | | 1745 (132322) | 22.90 | 22.16 | 21.09 | 18.43 |
| | | 1712.5 (131997) | 23.00 | 22.20 | 21.22 | 18.25 |
| | 12RB-High (13) | 1777.5 (132647) | 21.88 | 20.87 | 19.91 | 18.19 |
| | | 1745 (132322) | 21.93 | 20.90 | 19.92 | 17.97 |
| | | 1712.5 (131997) | 22.00 | 20.97 | 20.01 | 18.02 |
| | 12RB-Middle (6) | 1777.5 (132647) | 21.90 | 20.84 | 19.88 | 18.25 |
| | | 1745 (132322) | 21.90 | 20.96 | 19.90 | 18.15 |
| | | 1712.5 (131997) | 21.99 | 21.00 | 19.98 | 17.99 |
| | 12RB-Low (0) | 1777.5 (132647) | 21.90 | 20.87 | 19.90 | 18.33 |
| | | 1745 (132322) | 21.90 | 20.96 | 19.92 | 18.00 |
| | | 1712.5 (131997) | 22.05 | 21.06 | 20.02 | 18.26 |
| | 25RB (0) | 1777.5 (132647) | 21.91 | 20.86 | 19.87 | 18.33 |
| | | 1745 (132322) | 21.96 | 20.93 | 19.89 | 18.19 |
| | | 1712.5 (131997) | 22.03 | 21.03 | 19.97 | 18.01 |
| | | | | | | |
| 10MHz | 1RB-High (49) | 1775 (132622) | 22.89 | 22.23 | 21.01 | 18.42 |
| | | 1745 (132322) | 22.95 | 22.31 | 21.00 | 18.30 |
| | | 1715 (132022) | 23.00 | 22.20 | 21.10 | 18.04 |
| | 1RB-Middle (24) | 1775 (132622) | 22.83 | 22.19 | 20.96 | 18.28 |
| | | 1745 (132322) | 22.90 | 22.23 | 21.11 | 18.38 |
| | | 1715 (132022) | 22.99 | 22.32 | 21.08 | 18.35 |
| | 1RB-Low (0) | 1775 (132622) | 22.87 | 22.25 | 21.06 | 18.26 |
| | | 1745 (132322) | 23.00 | 22.21 | 21.11 | 18.43 |
| | | 1715 (132022) | 23.05 | 22.18 | 21.21 | 17.88 |
| | 25RB-High (25) | 1775 (132622) | 21.85 | 20.88 | 19.81 | 17.93 |
| | | 1745 (132322) | 21.90 | 20.88 | 19.89 | 18.00 |
| | | 1715 (132022) | 21.96 | 20.95 | 19.92 | 18.30 |
| | 25RB-Middle (12) | 1775 (132622) | 21.84 | 20.86 | 19.80 | 18.25 |
| | | 1745 (132322) | 21.89 | 20.88 | 19.86 | 18.17 |
| | | 1715 (132022) | 21.98 | 20.96 | 19.94 | 18.04 |
| | 25RB-Low (0) | 1775 (132622) | 21.89 | 20.82 | 19.85 | 18.29 |
| | | 1745 (132322) | 21.92 | 20.89 | 19.91 | 18.27 |
| | | 1715 (132022) | 22.01 | 20.95 | 19.94 | 18.21 |
| | 50RB (0) | 1775 (132622) | 21.87 | 20.86 | 19.82 | 18.26 |
| | | 1745 (132322) | 21.92 | 20.89 | 19.89 | 18.14 |
| | | 1715 (132022) | 22.03 | 20.97 | 19.97 | 18.00 |

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|---|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 1772.5 (132597) | 22.92 | 22.33 | 21.12 | 18.53 |
| | | 1745 (132322) | 22.98 | 22.22 | 21.11 | 17.90 |
| | | 1717.5 (132047) | 23.02 | 22.33 | 21.14 | 18.37 |
| | 1RB-Middle (37) | 1772.5 (132597) | 22.90 | 22.28 | 20.99 | 18.17 |
| | | 1745 (132322) | 22.98 | 22.10 | 21.19 | 18.45 |
| | | 1717.5 (132047) | 23.02 | 22.36 | 21.10 | 18.12 |
| | 1RB-Low (0) | 1772.5 (132597) | 22.95 | 22.21 | 21.13 | 18.29 |
| | | 1745 (132322) | 23.03 | 22.16 | 21.25 | 18.02 |
| | | 1717.5 (132047) | 23.06 | 22.27 | 21.18 | 18.11 |
| | 36RB-High (38) | 1772.5 (132597) | 21.86 | 20.83 | 19.86 | 18.08 |
| | | 1745 (132322) | 21.90 | 20.88 | 19.90 | 18.05 |
| | | 1717.5 (132047) | 21.95 | 20.94 | 19.95 | 18.40 |
| | 36RB-Middle (19) | 1772.5 (132597) | 21.87 | 20.84 | 19.86 | 18.14 |
| | | 1745 (132322) | 21.90 | 20.90 | 19.90 | 18.13 |
| | | 1717.5 (132047) | 21.96 | 20.93 | 19.95 | 18.07 |
| | 36RB-Low (0) | 1772.5 (132597) | 21.88 | 20.85 | 19.91 | 18.08 |
| | | 1745 (132322) | 21.93 | 20.89 | 19.92 | 18.42 |
| | | 1717.5 (132047) | 22.00 | 20.94 | 20.00 | 18.13 |
| | 75RB (0) | 1772.5 (132597) | 21.88 | 20.90 | 19.87 | 18.17 |
| | | 1745 (132322) | 21.93 | 20.91 | 19.90 | 18.10 |
| | | 1717.5 (132047) | 22.00 | 20.96 | 19.96 | 18.09 |
| | | | | | | |
| 20MHz | 1RB-High (99) | 1770 (132572) | 22.92 | 22.07 | 21.12 | 18.76 |
| | | 1745 (132322) | 22.98 | 22.09 | 21.14 | 18.23 |
| | | 1720 (132072) | 23.04 | 22.37 | 21.17 | 18.46 |
| | 1RB-Middle (50) | 1770 (132572) | 22.90 | 22.23 | 21.10 | 18.29 |
| | | 1745 (132322) | 23.03 | 22.21 | 21.18 | 18.12 |
| | | 1720 (132072) | 23.09 | 22.39 | 21.16 | 18.26 |
| | 1RB-Low (0) | 1770 (132572) | 22.96 | 22.19 | 21.15 | 18.44 |
| | | 1745 (132322) | 23.04 | 22.40 | 21.13 | 18.36 |
| | | 1720 (132072) | 23.09 | 22.45 | 21.27 | 18.18 |
| | 50RB-High (50) | 1770 (132572) | 21.91 | 20.90 | 19.86 | 18.42 |
| | | 1745 (132322) | 21.97 | 20.92 | 19.95 | 18.30 |
| | | 1720 (132072) | 21.98 | 20.99 | 20.00 | 18.29 |
| | 50RB-Middle (25) | 1770 (132572) | 21.94 | 20.93 | 19.88 | 18.11 |
| | | 1745 (132322) | 21.98 | 20.96 | 19.93 | 18.18 |
| | | 1720 (132072) | 22.03 | 21.02 | 20.01 | 18.15 |
| | 50RB-Low (0) | 1770 (132572) | 21.95 | 20.91 | 19.91 | 18.25 |
| | | 1745 (132322) | 21.98 | 20.97 | 19.96 | 18.44 |
| | | 1720 (132072) | 22.00 | 20.99 | 19.98 | 18.07 |
| | 100RB (0) | 1770 (132572) | 21.92 | 20.90 | 19.89 | 18.08 |
| | | 1745 (132322) | 21.96 | 20.92 | 19.94 | 18.16 |
| | | 1720 (132072) | 21.97 | 21.00 | 19.96 | 18.12 |

**LTE Band66 ANT1_B/C**

| BANDWIDTH | Number of RBs | Frequency | QPSK | 16QAM | 64QAM | 256QAM |
|---|---|---|---|---|---|---|
| 1.4MHz | 1RB-High (5) | 1779.3 (132665) | 18.13 | 18.61 | 18.35 | 18.30 |
| | | 1745 (132322) | 18.20 | 18.57 | 18.41 | 17.92 |
| | | 1710.7 (131979) | 18.24 | 18.66 | 18.46 | 18.43 |
| | 1RB-Middle (3) | 1779.3 (132665) | 18.15 | 18.76 | 18.43 | 18.21 |
| | | 1745 (132322) | 18.15 | 18.64 | 18.49 | 17.97 |
| | | 1710.7 (131979) | 18.16 | 18.49 | 18.50 | 18.32 |
| | 1RB-Low (0) | 1779.3 (132665) | 18.15 | 18.65 | 18.44 | 18.05 |
| | | 1745 (132322) | 18.30 | 18.51 | 18.39 | 18.12 |
| | | 1710.7 (131979) | 18.28 | 18.60 | 18.49 | 18.23 |
| | 3RB-High (3) | 1779.3 (132665) | 18.13 | 18.13 | 18.28 | 18.44 |
| | | 1745 (132322) | 18.23 | 18.19 | 18.27 | 18.22 |
| | | 1710.7 (131979) | 18.36 | 18.23 | 18.37 | 18.21 |
| | 3RB-Middle (1) | 1779.3 (132665) | 18.16 | 18.15 | 18.31 | 18.31 |
| | | 1745 (132322) | 18.16 | 18.14 | 18.26 | 18.08 |
| | | 1710.7 (131979) | 18.27 | 18.29 | 18.40 | 18.43 |
| | 3RB-Low (0) | 1779.3 (132665) | 18.13 | 18.11 | 18.24 | 18.45 |
| | | 1745 (132322) | 18.21 | 18.13 | 18.31 | 18.27 |
| | | 1710.7 (131979) | 18.25 | 18.26 | 18.50 | 17.93 |
| | 6RB (0) | 1779.3 (132665) | 18.16 | 18.23 | 18.17 | 18.13 |
| | | 1745 (132322) | 18.20 | 18.29 | 18.18 | 18.34 |
| | | 1710.7 (131979) | 18.31 | 18.34 | 18.28 | 18.34 |
| | | | | | | |
| 3MHz | 1RB-High (14) | 1778.5 (132657) | 18.15 | 18.29 | 18.33 | 17.96 |
| | | 1745 (132322) | 18.19 | 18.58 | 18.34 | 18.34 |
| | | 1711.5 (131987) | 18.22 | 18.49 | 18.49 | 18.43 |
| | 1RB-Middle (7) | 1778.5 (132657) | 18.14 | 18.65 | 18.41 | 17.97 |
| | | 1745 (132322) | 18.14 | 18.48 | 18.47 | 18.01 |
| | | 1711.5 (131987) | 18.23 | 18.70 | 18.41 | 18.39 |
| | 1RB-Low (0) | 1778.5 (132657) | 18.09 | 18.56 | 18.40 | 18.02 |
| | | 1745 (132322) | 18.17 | 18.53 | 18.43 | 18.19 |
| | | 1711.5 (131987) | 18.24 | 18.42 | 18.43 | 17.92 |
| | 8RB-High (7) | 1778.5 (132657) | 18.23 | 18.21 | 18.27 | 17.94 |
| | | 1745 (132322) | 18.20 | 18.27 | 18.28 | 17.90 |
| | | 1711.5 (131987) | 18.29 | 18.31 | 18.31 | 18.32 |
| | 8RB-Middle (4) | 1778.5 (132657) | 18.24 | 18.24 | 18.23 | 18.33 |
| | | 1745 (132322) | 18.15 | 18.25 | 18.27 | 18.44 |
| | | 1711.5 (131987) | 18.29 | 18.33 | 18.35 | 17.98 |
| | 8RB-Low (0) | 1778.5 (132657) | 18.25 | 18.24 | 18.27 | 18.12 |
| | | 1745 (132322) | 18.23 | 18.29 | 18.26 | 18.27 |
| | | 1711.5 (131987) | 18.35 | 18.32 | 18.34 | 18.24 |
| | 15RB (0) | 1778.5 (132657) | 18.16 | 18.20 | 18.16 | 17.95 |
| | | 1745 (132322) | 18.19 | 18.25 | 18.22 | 18.01 |
| | | 1711.5 (131987) | 18.28 | 18.28 | 18.30 | 18.31 |

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|---|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 1777.5 (132647) | 18.17 | 18.55 | 18.47 | 17.99 |
| | | 1745 (132322) | 18.31 | 18.58 | 18.38 | 18.21 |
| | | 1712.5 (131997) | 18.18 | 18.48 | 18.37 | 18.07 |
| | 1RB-Middle (12) | 1777.5 (132647) | 18.17 | 18.41 | 18.39 | 18.01 |
| | | 1745 (132322) | 18.38 | 18.69 | 18.51 | 18.26 |
| | | 1712.5 (131997) | 18.26 | 18.64 | 18.58 | 17.96 |
| | 1RB-Low (0) | 1777.5 (132647) | 18.22 | 18.41 | 18.46 | 18.33 |
| | | 1745 (132322) | 18.19 | 18.55 | 18.37 | 18.20 |
| | | 1712.5 (131997) | 18.22 | 18.51 | 18.51 | 18.06 |
| | 12RB-High (13) | 1777.5 (132647) | 18.20 | 18.29 | 18.31 | 18.07 |
| | | 1745 (132322) | 18.23 | 18.27 | 18.29 | 18.27 |
| | | 1712.5 (131997) | 18.33 | 18.31 | 18.32 | 18.00 |
| | 12RB-Middle (6) | 1777.5 (132647) | 18.22 | 18.23 | 18.29 | 18.42 |
| | | 1745 (132322) | 18.22 | 18.29 | 18.27 | 18.07 |
| | | 1712.5 (131997) | 18.27 | 18.37 | 18.36 | 18.29 |
| | 12RB-Low (0) | 1777.5 (132647) | 18.25 | 18.32 | 18.31 | 17.93 |
| | | 1745 (132322) | 18.25 | 18.27 | 18.32 | 18.18 |
| | | 1712.5 (131997) | 18.30 | 18.37 | 18.36 | 18.36 |
| | 25RB (0) | 1777.5 (132647) | 18.24 | 18.22 | 18.24 | 18.42 |
| | | 1745 (132322) | 18.25 | 18.28 | 18.24 | 18.07 |
| | | 1712.5 (131997) | 18.29 | 18.32 | 18.35 | 18.00 |
| | | | | | | |
| 10MHz | 1RB-High (49) | 1775 (132622) | 18.16 | 18.49 | 18.37 | 18.00 |
| | | 1745 (132322) | 18.26 | 18.55 | 18.42 | 18.15 |
| | | 1715 (132022) | 18.30 | 18.68 | 18.62 | 18.11 |
| | 1RB-Middle (24) | 1775 (132622) | 18.09 | 18.48 | 18.38 | 18.16 |
| | | 1745 (132322) | 18.18 | 18.34 | 18.26 | 18.07 |
| | | 1715 (132022) | 18.21 | 18.81 | 18.55 | 18.37 |
| | 1RB-Low (0) | 1775 (132622) | 18.19 | 18.59 | 18.32 | 18.10 |
| | | 1745 (132322) | 18.23 | 18.69 | 18.46 | 18.26 |
| | | 1715 (132022) | 18.29 | 18.69 | 18.55 | 18.19 |
| | 25RB-High (25) | 1775 (132622) | 18.19 | 18.22 | 18.20 | 17.98 |
| | | 1745 (132322) | 18.21 | 18.24 | 18.21 | 18.19 |
| | | 1715 (132022) | 18.26 | 18.26 | 18.27 | 18.19 |
| | 25RB-Middle (12) | 1775 (132622) | 18.23 | 18.19 | 18.20 | 17.92 |
| | | 1745 (132322) | 18.19 | 18.18 | 18.20 | 18.35 |
| | | 1715 (132022) | 18.23 | 18.29 | 18.26 | 17.98 |
| | 25RB-Low (0) | 1775 (132622) | 18.19 | 18.17 | 18.20 | 18.30 |
| | | 1745 (132322) | 18.21 | 18.24 | 18.24 | 18.14 |
| | | 1715 (132022) | 18.29 | 18.25 | 18.26 | 17.94 |
| | 50RB (0) | 1775 (132622) | 18.17 | 18.19 | 18.20 | 18.19 |
| | | 1745 (132322) | 18.21 | 18.21 | 18.24 | 18.43 |
| | | 1715 (132022) | 18.28 | 18.27 | 18.26 | 18.44 |

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|---|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 1772.5 (132597) | 18.25 | 18.48 | 18.38 | 18.21 |
| | | 1745 (132322) | 18.30 | 18.74 | 18.57 | 18.07 |
| | | 1717.5 (132047) | 18.35 | 18.79 | 18.52 | 18.41 |
| | 1RB-Middle (37) | 1772.5 (132597) | 18.17 | 18.74 | 18.34 | 17.98 |
| | | 1745 (132322) | 18.31 | 18.69 | 18.47 | 18.08 |
| | | 1717.5 (132047) | 18.29 | 18.69 | 18.47 | 18.21 |
| | 1RB-Low (0) | 1772.5 (132597) | 18.34 | 18.77 | 18.47 | 18.22 |
| | | 1745 (132322) | 18.27 | 18.68 | 18.53 | 18.14 |
| | | 1717.5 (132047) | 18.39 | 18.68 | 18.65 | 18.36 |
| | 36RB-High (38) | 1772.5 (132597) | 18.23 | 18.21 | 18.27 | 18.13 |
| | | 1745 (132322) | 18.28 | 18.27 | 18.29 | 17.96 |
| | | 1717.5 (132047) | 18.32 | 18.26 | 18.34 | 18.22 |
| | 36RB-Middle (19) | 1772.5 (132597) | 18.22 | 18.22 | 18.23 | 18.34 |
| | | 1745 (132322) | 18.25 | 18.22 | 18.24 | 18.21 |
| | | 1717.5 (132047) | 18.25 | 18.26 | 18.31 | 18.41 |
| | 36RB-Low (0) | 1772.5 (132597) | 18.24 | 18.23 | 18.24 | 17.92 |
| | | 1745 (132322) | 18.27 | 18.25 | 18.29 | 18.06 |
| | | 1717.5 (132047) | 18.30 | 18.32 | 18.33 | 18.22 |
| | 75RB (0) | 1772.5 (132597) | 18.26 | 18.26 | 18.25 | 18.36 |
| | | 1745 (132322) | 18.28 | 18.31 | 18.25 | 18.38 |
| | | 1717.5 (132047) | 18.29 | 18.31 | 18.27 | 17.92 |
| | | | | | | |
| 20MHz | 1RB-High (99) | 1770 (132572) | 18.27 | 18.62 | 18.49 | 18.01 |
| | | 1745 (132322) | 18.34 | 18.76 | 18.59 | 18.07 |
| | | 1720 (132072) | 18.34 | 18.76 | 18.54 | 18.06 |
| | 1RB-Middle (50) | 1770 (132572) | 18.17 | 18.52 | 18.43 | 17.92 |
| | | 1745 (132322) | 18.23 | 18.77 | 18.52 | 18.39 |
| | | 1720 (132072) | 18.35 | 18.83 | 18.53 | 18.05 |
| | 1RB-Low (0) | 1770 (132572) | 18.41 | 18.68 | 18.57 | 17.94 |
| | | 1745 (132322) | 18.45 | 18.62 | 18.50 | 18.36 |
| | | 1720 (132072) | 18.42 | 18.66 | 18.51 | 18.11 |
| | 50RB-High (50) | 1770 (132572) | 18.32 | 18.28 | 18.28 | 18.25 |
| | | 1745 (132322) | 18.36 | 18.29 | 18.30 | 18.39 |
| | | 1720 (132072) | 18.35 | 18.34 | 18.35 | 18.10 |
| | 50RB-Middle (25) | 1770 (132572) | 18.28 | 18.31 | 18.29 | 17.91 |
| | | 1745 (132322) | 18.33 | 18.32 | 18.30 | 18.13 |
| | | 1720 (132072) | 18.33 | 18.31 | 18.29 | 18.20 |
| | 50RB-Low (0) | 1770 (132572) | 18.31 | 18.31 | 18.28 | 18.06 |
| | | 1745 (132322) | 18.32 | 18.34 | 18.30 | 18.31 |
| | | 1720 (132072) | 18.33 | 18.32 | 18.31 | 18.19 |
| | 100RB (0) | 1770 (132572) | 18.29 | 18.29 | 18.28 | 18.14 |
| | | 1745 (132322) | 18.32 | 18.31 | 18.31 | 18.44 |
| | | 1720 (132072) | 18.33 | 18.30 | 18.32 | 18.35 |

**LTE Band66 ANT1_E/F**

| BANDWIDTH | Number of RBs | Frequency | QPSK | 16QAM | 64QAM | 256QAM |
|---|---|---|---|---|---|---|
| 1.4MHz | 1RB-High (5) | 1779.3 (132665) | 16.86 | 16.74 | 16.70 | 16.87 |
| | | 1745 (132322) | 16.79 | 16.68 | 16.86 | 16.60 |
| | | 1710.7 (131979) | 16.87 | 16.87 | 16.82 | 16.80 |
| | 1RB-Middle (3) | 1779.3 (132665) | 16.84 | 16.80 | 16.80 | 16.71 |
| | | 1745 (132322) | 16.79 | 16.66 | 16.78 | 16.74 |
| | | 1710.7 (131979) | 16.90 | 16.85 | 16.83 | 16.90 |
| | 1RB-Low (0) | 1779.3 (132665) | 16.72 | 16.66 | 16.81 | 16.82 |
| | | 1745 (132322) | 16.69 | 16.81 | 16.65 | 16.63 |
| | | 1710.7 (131979) | 16.80 | 16.85 | 16.76 | 16.69 |
| | 3RB-High (3) | 1779.3 (132665) | 16.65 | 16.70 | 16.75 | 16.68 |
| | | 1745 (132322) | 16.82 | 16.75 | 16.74 | 16.87 |
| | | 1710.7 (131979) | 16.67 | 16.76 | 16.67 | 16.60 |
| | 3RB-Middle (1) | 1779.3 (132665) | 16.81 | 16.71 | 16.73 | 16.64 |
| | | 1745 (132322) | 16.86 | 16.65 | 16.90 | 16.81 |
| | | 1710.7 (131979) | 16.68 | 16.64 | 16.81 | 16.61 |
| | 3RB-Low (0) | 1779.3 (132665) | 16.85 | 16.90 | 16.62 | 16.66 |
| | | 1745 (132322) | 16.75 | 16.75 | 16.76 | 16.67 |
| | | 1710.7 (131979) | 16.84 | 16.84 | 16.87 | 16.67 |
| | 6RB (0) | 1779.3 (132665) | 16.87 | 16.75 | 16.77 | 16.65 |
| | | 1745 (132322) | 16.65 | 16.83 | 16.68 | 16.72 |
| | | 1710.7 (131979) | 16.64 | 16.89 | 16.73 | 16.66 |
| | | | | | | |
| 3MHz | 1RB-High (14) | 1778.5 (132657) | 16.65 | 16.75 | 16.85 | 16.72 |
| | | 1745 (132322) | 16.63 | 16.86 | 16.82 | 16.75 |
| | | 1711.5 (131987) | 16.81 | 16.80 | 16.78 | 16.73 |
| | 1RB-Middle (7) | 1778.5 (132657) | 16.72 | 16.83 | 16.74 | 16.72 |
| | | 1745 (132322) | 16.84 | 16.82 | 16.70 | 16.65 |
| | | 1711.5 (131987) | 16.66 | 16.74 | 16.89 | 16.78 |
| | 1RB-Low (0) | 1778.5 (132657) | 16.66 | 16.61 | 16.83 | 16.73 |
| | | 1745 (132322) | 16.74 | 16.80 | 16.60 | 16.71 |
| | | 1711.5 (131987) | 16.76 | 16.60 | 16.65 | 16.63 |
| | 8RB-High (7) | 1778.5 (132657) | 16.73 | 16.65 | 16.76 | 16.85 |
| | | 1745 (132322) | 16.68 | 16.85 | 16.73 | 16.74 |
| | | 1711.5 (131987) | 16.80 | 16.82 | 16.84 | 16.84 |
| | 8RB-Middle (4) | 1778.5 (132657) | 16.89 | 16.73 | 16.66 | 16.86 |
| | | 1745 (132322) | 16.65 | 16.74 | 16.63 | 16.90 |
| | | 1711.5 (131987) | 16.74 | 16.66 | 16.62 | 16.65 |
| | 8RB-Low (0) | 1778.5 (132657) | 16.80 | 16.61 | 16.63 | 16.86 |
| | | 1745 (132322) | 16.70 | 16.70 | 16.77 | 16.81 |
| | | 1711.5 (131987) | 16.83 | 16.61 | 16.76 | 16.68 |
| | 15RB (0) | 1778.5 (132657) | 16.87 | 16.66 | 16.71 | 16.62 |
| | | 1745 (132322) | 16.82 | 16.73 | 16.77 | 16.81 |
| | | 1711.5 (131987) | 16.84 | 16.60 | 16.71 | 16.66 |

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|---|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 1777.5 (132647) | 16.85 | 16.72 | 16.69 | 16.84 |
| | | 1745 (132322) | 16.78 | 16.63 | 16.79 | 16.69 |
| | | 1712.5 (131997) | 16.67 | 16.62 | 16.77 | 16.86 |
| | 1RB-Middle (12) | 1777.5 (132647) | 16.85 | 16.86 | 16.74 | 16.73 |
| | | 1745 (132322) | 16.70 | 16.87 | 16.79 | 16.72 |
| | | 1712.5 (131997) | 16.83 | 16.68 | 16.70 | 16.78 |
| | 1RB-Low (0) | 1777.5 (132647) | 16.77 | 16.75 | 16.67 | 16.79 |
| | | 1745 (132322) | 16.67 | 16.70 | 16.61 | 16.79 |
| | | 1712.5 (131997) | 16.65 | 16.65 | 16.84 | 16.74 |
| | 12RB-High (13) | 1777.5 (132647) | 16.79 | 16.73 | 16.60 | 16.87 |
| | | 1745 (132322) | 16.76 | 16.67 | 16.63 | 16.62 |
| | | 1712.5 (131997) | 16.79 | 16.67 | 16.88 | 16.65 |
| | 12RB-Middle (6) | 1777.5 (132647) | 16.67 | 16.87 | 16.62 | 16.76 |
| | | 1745 (132322) | 16.84 | 16.79 | 16.86 | 16.64 |
| | | 1712.5 (131997) | 16.85 | 16.83 | 16.73 | 16.90 |
| | 12RB-Low (0) | 1777.5 (132647) | 16.66 | 16.69 | 16.76 | 16.61 |
| | | 1745 (132322) | 16.70 | 16.77 | 16.89 | 16.67 |
| | | 1712.5 (131997) | 16.66 | 16.73 | 16.72 | 16.85 |
| | 25RB (0) | 1777.5 (132647) | 16.88 | 16.86 | 16.73 | 16.79 |
| | | 1745 (132322) | 16.63 | 16.78 | 16.76 | 16.76 |
| | | 1712.5 (131997) | 16.68 | 16.77 | 16.87 | 16.63 |
| | | | | | | |
| 10MHz | 1RB-High (49) | 1775 (132622) | 16.68 | 16.69 | 16.84 | 16.71 |
| | | 1745 (132322) | 16.61 | 16.72 | 16.61 | 16.81 |
| | | 1715 (132022) | 16.89 | 16.79 | 16.62 | 16.65 |
| | 1RB-Middle (24) | 1775 (132622) | 16.82 | 16.63 | 16.76 | 16.77 |
| | | 1745 (132322) | 16.65 | 16.77 | 16.74 | 16.62 |
| | | 1715 (132022) | 16.89 | 16.66 | 16.74 | 16.78 |
| | 1RB-Low (0) | 1775 (132622) | 16.79 | 16.76 | 16.64 | 16.88 |
| | | 1745 (132322) | 16.75 | 16.87 | 16.67 | 16.83 |
| | | 1715 (132022) | 16.81 | 16.67 | 16.69 | 16.63 |
| | 25RB-High (25) | 1775 (132622) | 16.85 | 16.70 | 16.88 | 16.62 |
| | | 1745 (132322) | 16.62 | 16.88 | 16.60 | 16.87 |
| | | 1715 (132022) | 16.64 | 16.65 | 16.69 | 16.61 |
| | 25RB-Middle (12) | 1775 (132622) | 16.90 | 16.71 | 16.65 | 16.80 |
| | | 1745 (132322) | 16.81 | 16.68 | 16.69 | 16.88 |
| | | 1715 (132022) | 16.74 | 16.87 | 16.70 | 16.82 |
| | 25RB-Low (0) | 1775 (132622) | 16.83 | 16.77 | 16.71 | 16.71 |
| | | 1745 (132322) | 16.86 | 16.72 | 16.70 | 16.85 |
| | | 1715 (132022) | 16.80 | 16.61 | 16.84 | 16.63 |
| | 50RB (0) | 1775 (132622) | 16.79 | 16.86 | 16.63 | 16.89 |
| | | 1745 (132322) | 16.90 | 16.67 | 16.85 | 16.77 |
| | | 1715 (132022) | 16.84 | 16.64 | 16.85 | 16.61 |

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|---|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 1772.5 (132597) | 16.87 | 16.90 | 16.85 | 16.86 |
| | | 1745 (132322) | 16.76 | 16.78 | 16.60 | 16.86 |
| | | 1717.5 (132047) | 16.90 | 16.69 | 16.66 | 16.62 |
| | 1RB-Middle (37) | 1772.5 (132597) | 16.69 | 16.64 | 16.63 | 16.69 |
| | | 1745 (132322) | 16.62 | 16.83 | 16.85 | 16.71 |
| | | 1717.5 (132047) | 16.67 | 16.90 | 16.69 | 16.63 |
| | 1RB-Low (0) | 1772.5 (132597) | 16.82 | 16.72 | 16.88 | 16.81 |
| | | 1745 (132322) | 16.79 | 16.61 | 16.75 | 16.67 |
| | | 1717.5 (132047) | 16.90 | 16.87 | 16.60 | 16.64 |
| | 36RB-High (38) | 1772.5 (132597) | 16.79 | 16.89 | 16.65 | 16.80 |
| | | 1745 (132322) | 16.73 | 16.82 | 16.65 | 16.72 |
| | | 1717.5 (132047) | 16.82 | 16.65 | 16.70 | 16.63 |
| | 36RB-Middle (19) | 1772.5 (132597) | 16.73 | 16.89 | 16.63 | 16.74 |
| | | 1745 (132322) | 16.72 | 16.62 | 16.75 | 16.86 |
| | | 1717.5 (132047) | 16.67 | 16.63 | 16.87 | 16.66 |
| | 36RB-Low (0) | 1772.5 (132597) | 16.85 | 16.70 | 16.64 | 16.79 |
| | | 1745 (132322) | 16.64 | 16.89 | 16.86 | 16.90 |
| | | 1717.5 (132047) | 16.89 | 16.81 | 16.64 | 16.71 |
| | 75RB (0) | 1772.5 (132597) | 16.75 | 16.71 | 16.65 | 16.90 |
| | | 1745 (132322) | 16.89 | 16.74 | 16.67 | 16.62 |
| | | 1717.5 (132047) | 16.87 | 16.68 | 16.78 | 16.65 |
| | | | | | | |
| 20MHz | 1RB-High (99) | 1770 (132572) | 16.71 | 16.83 | 16.90 | 16.80 |
| | | 1745 (132322) | 16.74 | 16.77 | 16.88 | 16.64 |
| | | 1720 (132072) | 16.77 | 16.79 | 16.73 | 16.71 |
| | 1RB-Middle (50) | 1770 (132572) | 16.72 | 16.65 | 16.66 | 16.79 |
| | | 1745 (132322) | 16.74 | 16.74 | 16.63 | 16.71 |
| | | 1720 (132072) | 16.76 | 16.75 | 16.69 | 16.64 |
| | 1RB-Low (0) | 1770 (132572) | 16.73 | 16.75 | 16.69 | 16.83 |
| | | 1745 (132322) | 16.77 | 16.76 | 16.63 | 16.86 |
| | | 1720 (132072) | 16.72 | 16.81 | 16.64 | 16.85 |
| | 50RB-High (50) | 1770 (132572) | 16.71 | 16.66 | 16.84 | 16.68 |
| | | 1745 (132322) | 16.74 | 16.90 | 16.63 | 16.73 |
| | | 1720 (132072) | 16.70 | 16.86 | 16.71 | 16.81 |
| | 50RB-Middle (25) | 1770 (132572) | 16.69 | 16.60 | 16.88 | 16.81 |
| | | 1745 (132322) | 16.71 | 16.90 | 16.89 | 16.82 |
| | | 1720 (132072) | 16.73 | 16.90 | 16.64 | 16.77 |
| | 50RB-Low (0) | 1770 (132572) | 16.68 | 16.65 | 16.64 | 16.72 |
| | | 1745 (132322) | 16.69 | 16.63 | 16.83 | 16.89 |
| | | 1720 (132072) | 16.72 | 16.64 | 16.60 | 16.82 |
| | 100RB (0) | 1770 (132572) | 16.71 | 16.68 | 16.78 | 16.75 |
| | | 1745 (132322) | 16.72 | 16.79 | 16.66 | 16.60 |
| | | 1720 (132072) | 16.70 | 16.84 | 16.82 | 16.84 |

**LTE Band66 ANT5_D**

| BANDWIDTH | Number of RBs | Frequency | QPSK | 16QAM | 64QAM | 256QAM |
|---|---|---|---|---|---|---|
| 1.4MHz | 1RB-High (5) | 1779.3 (132665) | 14.59 | 14.60 | 14.68 | 14.78 |
| | | 1745 (132322) | 14.76 | 14.77 | 14.65 | 14.60 |
| | | 1710.7 (131979) | 14.79 | 14.74 | 14.65 | 14.64 |
| | 1RB-Middle (3) | 1779.3 (132665) | 14.60 | 14.58 | 14.64 | 14.59 |
| | | 1745 (132322) | 14.75 | 14.70 | 14.66 | 14.71 |
| | | 1710.7 (131979) | 14.75 | 14.65 | 14.60 | 14.62 |
| | 1RB-Low (0) | 1779.3 (132665) | 14.77 | 14.71 | 14.80 | 14.55 |
| | | 1745 (132322) | 14.74 | 14.56 | 14.72 | 14.79 |
| | | 1710.7 (131979) | 14.76 | 14.57 | 14.56 | 14.74 |
| | 3RB-High (3) | 1779.3 (132665) | 14.72 | 14.77 | 14.64 | 14.76 |
| | | 1745 (132322) | 14.55 | 14.56 | 14.73 | 14.71 |
| | | 1710.7 (131979) | 14.73 | 14.62 | 14.65 | 14.79 |
| | 3RB-Middle (1) | 1779.3 (132665) | 14.76 | 14.69 | 14.60 | 14.66 |
| | | 1745 (132322) | 14.68 | 14.57 | 14.75 | 14.71 |
| | | 1710.7 (131979) | 14.77 | 14.72 | 14.55 | 14.71 |
| | 3RB-Low (0) | 1779.3 (132665) | 14.67 | 14.66 | 14.68 | 14.67 |
| | | 1745 (132322) | 14.66 | 14.73 | 14.70 | 14.57 |
| | | 1710.7 (131979) | 14.62 | 14.73 | 14.58 | 14.79 |
| | 6RB (0) | 1779.3 (132665) | 14.69 | 14.60 | 14.69 | 14.75 |
| | | 1745 (132322) | 14.66 | 14.64 | 14.77 | 14.75 |
| | | 1710.7 (131979) | 14.74 | 14.78 | 14.58 | 14.67 |
| | | | | | | |
| 3MHz | 1RB-High (14) | 1778.5 (132657) | 14.58 | 14.74 | 14.57 | 14.63 |
| | | 1745 (132322) | 14.65 | 14.60 | 14.79 | 14.75 |
| | | 1711.5 (131987) | 14.72 | 14.62 | 14.57 | 14.73 |
| | 1RB-Middle (7) | 1778.5 (132657) | 14.59 | 14.66 | 14.76 | 14.58 |
| | | 1745 (132322) | 14.79 | 14.71 | 14.77 | 14.65 |
| | | 1711.5 (131987) | 14.57 | 14.74 | 14.68 | 14.73 |
| | 1RB-Low (0) | 1778.5 (132657) | 14.79 | 14.63 | 14.68 | 14.67 |
| | | 1745 (132322) | 14.76 | 14.75 | 14.72 | 14.58 |
| | | 1711.5 (131987) | 14.74 | 14.65 | 14.63 | 14.69 |
| | 8RB-High (7) | 1778.5 (132657) | 14.65 | 14.77 | 14.76 | 14.66 |
| | | 1745 (132322) | 14.55 | 14.65 | 14.80 | 14.80 |
| | | 1711.5 (131987) | 14.75 | 14.73 | 14.67 | 14.74 |
| | 8RB-Middle (4) | 1778.5 (132657) | 14.63 | 14.77 | 14.68 | 14.59 |
| | | 1745 (132322) | 14.74 | 14.63 | 14.79 | 14.57 |
| | | 1711.5 (131987) | 14.56 | 14.59 | 14.75 | 14.77 |
| | 8RB-Low (0) | 1778.5 (132657) | 14.57 | 14.79 | 14.57 | 14.62 |
| | | 1745 (132322) | 14.79 | 14.77 | 14.64 | 14.71 |
| | | 1711.5 (131987) | 14.72 | 14.68 | 14.73 | 14.68 |
| | 15RB (0) | 1778.5 (132657) | 14.69 | 14.74 | 14.72 | 14.57 |
| | | 1745 (132322) | 14.68 | 14.73 | 14.62 | 14.66 |
| | | 1711.5 (131987) | 14.64 | 14.79 | 14.64 | 14.69 |

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| 5MHz | 1RB-High (24) | 1777.5 (132647) | 14.67 | 14.75 | 14.76 | 14.62 |
| | | 1745 (132322) | 14.59 | 14.75 | 14.62 | 14.71 |
| | | 1712.5 (131997) | 14.69 | 14.73 | 14.69 | 14.63 |
| | 1RB-Middle (12) | 1777.5 (132647) | 14.69 | 14.67 | 14.67 | 14.64 |
| | | 1745 (132322) | 14.79 | 14.75 | 14.71 | 14.59 |
| | | 1712.5 (131997) | 14.68 | 14.63 | 14.78 | 14.64 |
| | 1RB-Low (0) | 1777.5 (132647) | 14.69 | 14.78 | 14.62 | 14.67 |
| | | 1745 (132322) | 14.75 | 14.55 | 14.66 | 14.72 |
| | | 1712.5 (131997) | 14.59 | 14.78 | 14.78 | 14.67 |
| | 12RB-High (13) | 1777.5 (132647) | 14.78 | 14.70 | 14.66 | 14.72 |
| | | 1745 (132322) | 14.66 | 14.79 | 14.56 | 14.66 |
| | | 1712.5 (131997) | 14.57 | 14.74 | 14.79 | 14.62 |
| | 12RB-Middle (6) | 1777.5 (132647) | 14.64 | 14.71 | 14.56 | 14.73 |
| | | 1745 (132322) | 14.59 | 14.68 | 14.59 | 14.55 |
| | | 1712.5 (131997) | 14.59 | 14.70 | 14.55 | 14.58 |
| | 12RB-Low (0) | 1777.5 (132647) | 14.77 | 14.78 | 14.67 | 14.73 |
| | | 1745 (132322) | 14.63 | 14.74 | 14.79 | 14.56 |
| | | 1712.5 (131997) | 14.60 | 14.79 | 14.58 | 14.79 |
| | 25RB (0) | 1777.5 (132647) | 14.64 | 14.69 | 14.61 | 14.69 |
| | | 1745 (132322) | 14.55 | 14.58 | 14.76 | 14.56 |
| | | 1712.5 (131997) | 14.64 | 14.78 | 14.58 | 14.60 |
| | | | | | | |
| 10MHz | 1RB-High (49) | 1775 (132622) | 14.71 | 14.73 | 14.61 | 14.55 |
| | | 1745 (132322) | 14.76 | 14.65 | 14.75 | 14.73 |
| | | 1715 (132022) | 14.60 | 14.60 | 14.76 | 14.73 |
| | 1RB-Middle (24) | 1775 (132622) | 14.68 | 14.67 | 14.75 | 14.68 |
| | | 1745 (132322) | 14.71 | 14.73 | 14.77 | 14.63 |
| | | 1715 (132022) | 14.80 | 14.62 | 14.61 | 14.59 |
| | 1RB-Low (0) | 1775 (132622) | 14.72 | 14.55 | 14.62 | 14.55 |
| | | 1745 (132322) | 14.78 | 14.62 | 14.78 | 14.63 |
| | | 1715 (132022) | 14.71 | 14.57 | 14.65 | 14.58 |
| | 25RB-High (25) | 1775 (132622) | 14.75 | 14.57 | 14.57 | 14.80 |
| | | 1745 (132322) | 14.62 | 14.76 | 14.74 | 14.75 |
| | | 1715 (132022) | 14.75 | 14.68 | 14.76 | 14.70 |
| | 25RB-Middle (12) | 1775 (132622) | 14.80 | 14.65 | 14.78 | 14.55 |
| | | 1745 (132322) | 14.58 | 14.61 | 14.62 | 14.64 |
| | | 1715 (132022) | 14.79 | 14.70 | 14.74 | 14.62 |
| | 25RB-Low (0) | 1775 (132622) | 14.76 | 14.71 | 14.75 | 14.58 |
| | | 1745 (132322) | 14.72 | 14.63 | 14.62 | 14.68 |
| | | 1715 (132022) | 14.71 | 14.57 | 14.69 | 14.78 |
| | 50RB (0) | 1775 (132622) | 14.65 | 14.59 | 14.80 | 14.60 |
| | | 1745 (132322) | 14.60 | 14.67 | 14.55 | 14.69 |
| | | 1715 (132022) | 14.56 | 14.80 | 14.69 | 14.64 |

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| 15MHz | 1RB-High (74) | 1772.5 (132597) | 14.55 | 14.71 | 14.55 | 14.58 |
| | | 1745 (132322) | 14.79 | 14.56 | 14.63 | 14.71 |
| | | 1717.5 (132047) | 14.64 | 14.71 | 14.68 | 14.70 |
| | 1RB-Middle (37) | 1772.5 (132597) | 14.67 | 14.79 | 14.79 | 14.63 |
| | | 1745 (132322) | 14.64 | 14.62 | 14.67 | 14.58 |
| | | 1717.5 (132047) | 14.64 | 14.67 | 14.71 | 14.55 |
| | 1RB-Low (0) | 1772.5 (132597) | 14.67 | 14.78 | 14.74 | 14.67 |
| | | 1745 (132322) | 14.55 | 14.57 | 14.63 | 14.63 |
| | | 1717.5 (132047) | 14.56 | 14.57 | 14.65 | 14.70 |
| | 36RB-High (38) | 1772.5 (132597) | 14.80 | 14.79 | 14.72 | 14.56 |
| | | 1745 (132322) | 14.62 | 14.76 | 14.61 | 14.67 |
| | | 1717.5 (132047) | 14.61 | 14.78 | 14.78 | 14.63 |
| | 36RB-Middle (19) | 1772.5 (132597) | 14.65 | 14.55 | 14.64 | 14.78 |
| | | 1745 (132322) | 14.67 | 14.78 | 14.59 | 14.69 |
| | | 1717.5 (132047) | 14.62 | 14.79 | 14.70 | 14.72 |
| | 36RB-Low (0) | 1772.5 (132597) | 14.69 | 14.74 | 14.76 | 14.63 |
| | | 1745 (132322) | 14.73 | 14.61 | 14.73 | 14.80 |
| | | 1717.5 (132047) | 14.55 | 14.80 | 14.62 | 14.63 |
| | 75RB (0) | 1772.5 (132597) | 14.60 | 14.70 | 14.72 | 14.71 |
| | | 1745 (132322) | 14.72 | 14.66 | 14.66 | 14.75 |
| | | 1717.5 (132047) | 14.78 | 14.55 | 14.73 | 14.74 |
| | | | | | | |
| 20MHz | 1RB-High (99) | 1770 (132572) | 14.75 | 14.72 | 14.79 | 14.55 |
| | | 1745 (132322) | 14.73 | 14.66 | 14.62 | 14.65 |
| | | 1720 (132072) | 14.66 | 14.66 | 14.57 | 14.66 |
| | 1RB-Middle (50) | 1770 (132572) | 14.68 | 14.67 | 14.68 | 14.73 |
| | | 1745 (132322) | 14.72 | 14.69 | 14.65 | 14.59 |
| | | 1720 (132072) | 14.63 | 14.75 | 14.79 | 14.80 |
| | 1RB-Low (0) | 1770 (132572) | 14.68 | 14.73 | 14.80 | 14.63 |
| | | 1745 (132322) | 14.71 | 14.56 | 14.80 | 14.78 |
| | | 1720 (132072) | 14.64 | 14.71 | 14.60 | 14.61 |
| | 50RB-High (50) | 1770 (132572) | 14.73 | 14.67 | 14.60 | 14.69 |
| | | 1745 (132322) | 14.67 | 14.77 | 14.66 | 14.80 |
| | | 1720 (132072) | 14.62 | 14.56 | 14.62 | 14.64 |
| | 50RB-Middle (25) | 1770 (132572) | 14.66 | 14.61 | 14.64 | 14.73 |
| | | 1745 (132322) | 14.70 | 14.69 | 14.78 | 14.79 |
| | | 1720 (132072) | 14.61 | 14.59 | 14.68 | 14.61 |
| | 50RB-Low (0) | 1770 (132572) | 14.65 | 14.55 | 14.71 | 14.65 |
| | | 1745 (132322) | 14.69 | 14.70 | 14.64 | 14.57 |
| | | 1720 (132072) | 14.59 | 14.58 | 14.55 | 14.66 |
| | 100RB (0) | 1770 (132572) | 14.66 | 14.67 | 14.69 | 14.57 |
| | | 1745 (132322) | 14.69 | 14.60 | 14.79 | 14.65 |
| | | 1720 (132072) | 14.62 | 14.66 | 14.65 | 14.55 |

**LTE Band66 ANT5_E**

| BANDWIDTH | Number of RBs | Frequency | QPSK | 16QAM | 64QAM | 256QAM |
|---|---|---|---|---|---|---|
| 1.4MHz | 1RB-High (5) | 1779.3 (132665) | 20.04 | 20.16 | 20.15 | 18.25 |
| | | 1745 (132322) | 20.01 | 20.19 | 20.10 | 18.10 |
| | | 1710.7 (131979) | 20.03 | 20.10 | 20.12 | 18.05 |
| | 1RB-Middle (3) | 1779.3 (132665) | 20.13 | 20.19 | 20.18 | 18.14 |
| | | 1745 (132322) | 20.25 | 20.19 | 20.04 | 18.26 |
| | | 1710.7 (131979) | 20.07 | 20.03 | 20.09 | 18.19 |
| | 1RB-Low (0) | 1779.3 (132665) | 20.08 | 20.01 | 20.25 | 18.23 |
| | | 1745 (132322) | 20.18 | 20.15 | 20.20 | 18.35 |
| | | 1710.7 (131979) | 20.10 | 20.12 | 20.16 | 18.09 |
| | 3RB-High (3) | 1779.3 (132665) | 20.09 | 20.17 | 20.25 | 18.20 |
| | | 1745 (132322) | 20.20 | 20.11 | 20.03 | 18.19 |
| | | 1710.7 (131979) | 20.05 | 20.03 | 20.06 | 18.16 |
| | 3RB-Middle (1) | 1779.3 (132665) | 20.07 | 20.03 | 20.21 | 18.22 |
| | | 1745 (132322) | 20.01 | 20.19 | 20.09 | 18.29 |
| | | 1710.7 (131979) | 20.01 | 20.12 | 20.21 | 18.08 |
| | 3RB-Low (0) | 1779.3 (132665) | 20.18 | 20.11 | 20.00 | 18.14 |
| | | 1745 (132322) | 20.17 | 20.11 | 20.05 | 18.29 |
| | | 1710.7 (131979) | 20.15 | 20.25 | 20.05 | 18.27 |
| | 6RB (0) | 1779.3 (132665) | 20.08 | 20.04 | 20.06 | 18.06 |
| | | 1745 (132322) | 20.20 | 20.00 | 20.07 | 18.28 |
| | | 1710.7 (131979) | 20.18 | 20.24 | 20.10 | 18.16 |
| | | | | | | |
| 3MHz | 1RB-High (14) | 1778.5 (132657) | 20.09 | 20.23 | 20.20 | 18.07 |
| | | 1745 (132322) | 20.02 | 20.05 | 20.09 | 18.15 |
| | | 1711.5 (131987) | 20.14 | 20.06 | 20.04 | 18.11 |
| | 1RB-Middle (7) | 1778.5 (132657) | 20.03 | 20.10 | 20.04 | 18.15 |
| | | 1745 (132322) | 20.10 | 20.25 | 20.21 | 18.10 |
| | | 1711.5 (131987) | 20.02 | 20.03 | 20.20 | 18.30 |
| | 1RB-Low (0) | 1778.5 (132657) | 20.20 | 20.03 | 20.19 | 18.08 |
| | | 1745 (132322) | 20.07 | 20.17 | 20.18 | 18.33 |
| | | 1711.5 (131987) | 20.06 | 20.16 | 20.16 | 18.10 |
| | 8RB-High (7) | 1778.5 (132657) | 20.16 | 20.08 | 20.09 | 18.18 |
| | | 1745 (132322) | 20.24 | 20.24 | 20.23 | 18.14 |
| | | 1711.5 (131987) | 20.24 | 20.13 | 20.08 | 18.20 |
| | 8RB-Middle (4) | 1778.5 (132657) | 20.17 | 20.10 | 20.01 | 18.09 |
| | | 1745 (132322) | 20.25 | 20.23 | 20.15 | 18.07 |
| | | 1711.5 (131987) | 20.01 | 20.12 | 20.00 | 18.24 |
| | 8RB-Low (0) | 1778.5 (132657) | 20.14 | 20.20 | 20.01 | 18.21 |
| | | 1745 (132322) | 20.08 | 20.20 | 20.15 | 18.19 |
| | | 1711.5 (131987) | 20.08 | 20.24 | 20.13 | 18.28 |
| | 15RB (0) | 1778.5 (132657) | 20.17 | 20.17 | 20.02 | 18.35 |
| | | 1745 (132322) | 20.14 | 20.25 | 20.25 | 18.21 |
| | | 1711.5 (131987) | 20.11 | 20.15 | 20.05 | 18.24 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 1777.5 (132647) | 20.13 | 20.10 | 20.20 | 18.14 |
| | | 1745 (132322) | 20.11 | 20.22 | 20.20 | 18.20 |
| | | 1712.5 (131997) | 20.07 | 20.10 | 20.06 | 18.30 |
| | 1RB-Middle (12) | 1777.5 (132647) | 20.07 | 20.01 | 20.07 | 18.31 |
| | | 1745 (132322) | 20.22 | 20.08 | 20.04 | 18.24 |
| | | 1712.5 (131997) | 20.25 | 20.00 | 20.07 | 18.20 |
| | 1RB-Low (0) | 1777.5 (132647) | 20.04 | 20.12 | 20.01 | 18.17 |
| | | 1745 (132322) | 20.11 | 20.04 | 20.02 | 18.30 |
| | | 1712.5 (131997) | 20.00 | 20.03 | 20.07 | 18.20 |
| | 12RB-High (13) | 1777.5 (132647) | 20.04 | 20.05 | 20.23 | 18.08 |
| | | 1745 (132322) | 20.15 | 20.24 | 20.14 | 18.23 |
| | | 1712.5 (131997) | 20.05 | 20.25 | 20.12 | 18.27 |
| | 12RB-Middle (6) | 1777.5 (132647) | 20.08 | 20.05 | 20.10 | 18.19 |
| | | 1745 (132322) | 20.13 | 20.24 | 20.19 | 18.10 |
| | | 1712.5 (131997) | 20.18 | 20.13 | 20.06 | 18.10 |
| | 12RB-Low (0) | 1777.5 (132647) | 20.07 | 20.10 | 20.08 | 18.29 |
| | | 1745 (132322) | 20.07 | 20.17 | 20.05 | 18.09 |
| | | 1712.5 (131997) | 20.03 | 20.00 | 20.03 | 18.10 |
| | 25RB (0) | 1777.5 (132647) | 20.23 | 20.12 | 20.25 | 18.07 |
| | | 1745 (132322) | 20.05 | 20.08 | 20.22 | 18.30 |
| | | 1712.5 (131997) | 20.15 | 20.09 | 20.06 | 18.24 |
| | | | | | | |
| 10MHz | 1RB-High (49) | 1775 (132622) | 20.12 | 20.16 | 20.08 | 18.24 |
| | | 1745 (132322) | 20.23 | 20.12 | 20.00 | 18.22 |
| | | 1715 (132022) | 20.25 | 20.11 | 20.17 | 18.28 |
| | 1RB-Middle (24) | 1775 (132622) | 20.21 | 20.24 | 20.14 | 18.11 |
| | | 1745 (132322) | 20.06 | 20.20 | 20.00 | 18.25 |
| | | 1715 (132022) | 20.05 | 20.03 | 20.00 | 18.11 |
| | 1RB-Low (0) | 1775 (132622) | 20.15 | 20.23 | 20.19 | 18.19 |
| | | 1745 (132322) | 20.21 | 20.15 | 20.09 | 18.17 |
| | | 1715 (132022) | 20.11 | 20.09 | 20.13 | 18.24 |
| | 25RB-High (25) | 1775 (132622) | 20.02 | 20.09 | 20.21 | 18.07 |
| | | 1745 (132322) | 20.03 | 20.18 | 20.06 | 18.15 |
| | | 1715 (132022) | 20.05 | 20.09 | 20.10 | 18.30 |
| | 25RB-Middle (12) | 1775 (132622) | 20.22 | 20.22 | 20.15 | 18.15 |
| | | 1745 (132322) | 20.17 | 20.01 | 20.25 | 18.33 |
| | | 1715 (132022) | 20.23 | 20.00 | 20.04 | 18.35 |
| | 25RB-Low (0) | 1775 (132622) | 20.21 | 20.16 | 20.22 | 18.15 |
| | | 1745 (132322) | 20.10 | 20.04 | 20.05 | 18.29 |
| | | 1715 (132022) | 20.10 | 20.14 | 20.17 | 18.34 |
| | 50RB (0) | 1775 (132622) | 20.15 | 20.11 | 20.01 | 18.21 |
| | | 1745 (132322) | 20.17 | 20.00 | 20.10 | 18.19 |
| | | 1715 (132022) | 20.16 | 20.18 | 20.16 | 18.13 |

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|---|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 1772.5 (132597) | 20.20 | 20.20 | 20.16 | 18.18 |
| | | 1745 (132322) | 20.09 | 20.10 | 20.12 | 18.24 |
| | | 1717.5 (132047) | 20.03 | 20.13 | 20.10 | 18.24 |
| | 1RB-Middle (37) | 1772.5 (132597) | 20.19 | 20.20 | 20.10 | 18.32 |
| | | 1745 (132322) | 20.05 | 20.14 | 20.01 | 18.35 |
| | | 1717.5 (132047) | 20.16 | 20.09 | 20.21 | 18.24 |
| | 1RB-Low (0) | 1772.5 (132597) | 20.08 | 20.11 | 20.08 | 18.16 |
| | | 1745 (132322) | 20.11 | 20.17 | 20.14 | 18.29 |
| | | 1717.5 (132047) | 20.11 | 20.23 | 20.13 | 18.35 |
| | 36RB-High (38) | 1772.5 (132597) | 20.02 | 20.20 | 20.08 | 18.17 |
| | | 1745 (132322) | 20.19 | 20.02 | 20.20 | 18.25 |
| | | 1717.5 (132047) | 20.08 | 20.01 | 20.09 | 18.25 |
| | 36RB-Middle (19) | 1772.5 (132597) | 20.19 | 20.01 | 20.22 | 18.17 |
| | | 1745 (132322) | 20.06 | 20.23 | 20.10 | 18.10 |
| | | 1717.5 (132047) | 20.19 | 20.22 | 20.17 | 18.30 |
| | 36RB-Low (0) | 1772.5 (132597) | 20.11 | 20.13 | 20.00 | 18.15 |
| | | 1745 (132322) | 20.24 | 20.04 | 20.08 | 18.33 |
| | | 1717.5 (132047) | 20.23 | 20.07 | 20.15 | 18.35 |
| | 75RB (0) | 1772.5 (132597) | 20.03 | 20.11 | 20.22 | 18.28 |
| | | 1745 (132322) | 20.08 | 20.09 | 20.10 | 18.19 |
| | | 1717.5 (132047) | 20.08 | 20.15 | 20.19 | 18.07 |
| | | | | | | |
| 20MHz | 1RB-High (99) | 1770 (132572) | 20.22 | 20.19 | 20.22 | 18.06 |
| | | 1745 (132322) | 20.21 | 20.22 | 20.00 | 18.11 |
| | | 1720 (132072) | 20.11 | 20.11 | 20.09 | 18.06 |
| | 1RB-Middle (50) | 1770 (132572) | 20.14 | 20.02 | 20.21 | 18.10 |
| | | 1745 (132322) | 20.19 | 20.02 | 20.19 | 18.21 |
| | | 1720 (132072) | 20.07 | 20.04 | 20.06 | 18.18 |
| | 1RB-Low (0) | 1770 (132572) | 20.14 | 20.07 | 20.08 | 18.31 |
| | | 1745 (132322) | 20.18 | 20.18 | 20.01 | 18.34 |
| | | 1720 (132072) | 20.09 | 20.00 | 20.04 | 18.11 |
| | 50RB-High (50) | 1770 (132572) | 20.14 | 20.19 | 20.14 | 18.09 |
| | | 1745 (132322) | 20.13 | 20.09 | 20.05 | 18.30 |
| | | 1720 (132072) | 20.06 | 20.16 | 20.04 | 18.23 |
| | 50RB-Middle (25) | 1770 (132572) | 20.11 | 20.11 | 20.10 | 18.09 |
| | | 1745 (132322) | 20.11 | 20.04 | 20.01 | 18.14 |
| | | 1720 (132072) | 20.05 | 20.21 | 20.12 | 18.22 |
| | 50RB-Low (0) | 1770 (132572) | 20.10 | 20.16 | 20.18 | 18.31 |
| | | 1745 (132322) | 20.13 | 20.00 | 20.02 | 18.08 |
| | | 1720 (132072) | 20.02 | 20.15 | 20.22 | 18.07 |
| | 100RB (0) | 1770 (132572) | 20.12 | 20.25 | 20.03 | 18.23 |
| | | 1745 (132322) | 20.16 | 20.11 | 20.20 | 18.07 |
| | | 1720 (132072) | 20.06 | 20.00 | 20.23 | 18.12 |

**LTE Band66 ANT5_F**

| BANDWIDTH | Number of RBs | Frequency | QPSK | 16QAM | 64QAM | 256QAM |
|---|---|---|---|---|---|---|
| 1.4MHz | 1RB-High (5) | 1779.3 (132665) | 22.40 | 22.33 | 21.39 | 18.43 |
| | | 1745 (132322) | 22.17 | 22.07 | 21.34 | 18.41 |
| | | 1710.7 (131979) | 22.34 | 22.17 | 21.28 | 18.30 |
| | 1RB-Middle (3) | 1779.3 (132665) | 22.11 | 22.31 | 21.14 | 18.30 |
| | | 1745 (132322) | 22.18 | 22.36 | 21.27 | 18.16 |
| | | 1710.7 (131979) | 22.16 | 22.18 | 21.36 | 18.43 |
| | 1RB-Low (0) | 1779.3 (132665) | 22.35 | 22.26 | 21.10 | 18.41 |
| | | 1745 (132322) | 22.28 | 22.24 | 21.38 | 18.34 |
| | | 1710.7 (131979) | 22.07 | 22.13 | 21.36 | 18.12 |
| | 3RB-High (3) | 1779.3 (132665) | 22.35 | 22.14 | 21.16 | 18.11 |
| | | 1745 (132322) | 22.39 | 22.13 | 21.29 | 18.41 |
| | | 1710.7 (131979) | 22.25 | 22.35 | 21.12 | 18.16 |
| | 3RB-Middle (1) | 1779.3 (132665) | 22.40 | 22.31 | 21.36 | 18.38 |
| | | 1745 (132322) | 22.17 | 22.06 | 21.05 | 18.23 |
| | | 1710.7 (131979) | 22.07 | 22.34 | 21.30 | 18.45 |
| | 3RB-Low (0) | 1779.3 (132665) | 22.29 | 22.39 | 21.35 | 18.25 |
| | | 1745 (132322) | 22.31 | 22.21 | 21.29 | 18.32 |
| | | 1710.7 (131979) | 22.23 | 22.27 | 21.11 | 18.29 |
| | 6RB (0) | 1779.3 (132665) | 22.38 | 21.28 | 20.35 | 18.34 |
| | | 1745 (132322) | 22.08 | 21.06 | 20.28 | 18.42 |
| | | 1710.7 (131979) | 22.15 | 21.29 | 20.21 | 18.35 |
| | | | | | | |
| 3MHz | 1RB-High (14) | 1778.5 (132657) | 22.24 | 22.22 | 21.15 | 18.14 |
| | | 1745 (132322) | 22.14 | 22.37 | 21.09 | 18.25 |
| | | 1711.5 (131987) | 22.32 | 22.13 | 21.14 | 18.35 |
| | 1RB-Middle (7) | 1778.5 (132657) | 22.13 | 22.38 | 21.40 | 18.40 |
| | | 1745 (132322) | 22.37 | 22.05 | 21.38 | 18.19 |
| | | 1711.5 (131987) | 22.40 | 22.32 | 21.15 | 18.28 |
| | 1RB-Low (0) | 1778.5 (132657) | 22.23 | 22.24 | 21.29 | 18.19 |
| | | 1745 (132322) | 22.37 | 22.16 | 21.28 | 18.41 |
| | | 1711.5 (131987) | 22.07 | 22.33 | 21.37 | 18.30 |
| | 8RB-High (7) | 1778.5 (132657) | 22.19 | 21.08 | 20.30 | 18.27 |
| | | 1745 (132322) | 22.07 | 21.40 | 20.35 | 18.22 |
| | | 1711.5 (131987) | 22.39 | 21.27 | 20.18 | 18.10 |
| | 8RB-Middle (4) | 1778.5 (132657) | 22.16 | 21.29 | 20.11 | 18.37 |
| | | 1745 (132322) | 22.05 | 21.16 | 20.11 | 18.15 |
| | | 1711.5 (131987) | 22.19 | 21.21 | 20.07 | 18.27 |
| | 8RB-Low (0) | 1778.5 (132657) | 22.31 | 21.21 | 20.17 | 18.31 |
| | | 1745 (132322) | 22.15 | 21.16 | 20.39 | 18.44 |
| | | 1711.5 (131987) | 22.09 | 21.39 | 20.37 | 18.32 |
| | 15RB (0) | 1778.5 (132657) | 22.39 | 21.17 | 20.39 | 18.10 |
| | | 1745 (132322) | 22.08 | 21.23 | 20.25 | 18.28 |
| | | 1711.5 (131987) | 22.14 | 21.17 | 20.17 | 18.14 |

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|---|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 1777.5 (132647) | 22.37 | 22.29 | 21.21 | 18.31 |
| | | 1745 (132322) | 22.11 | 22.18 | 21.17 | 18.32 |
| | | 1712.5 (131997) | 22.07 | 22.27 | 21.36 | 18.37 |
| | 1RB-Middle (12) | 1777.5 (132647) | 22.17 | 22.07 | 21.23 | 18.36 |
| | | 1745 (132322) | 22.10 | 22.27 | 21.23 | 18.13 |
| | | 1712.5 (131997) | 22.32 | 22.37 | 21.34 | 18.22 |
| | 1RB-Low (0) | 1777.5 (132647) | 22.33 | 22.25 | 21.10 | 18.17 |
| | | 1745 (132322) | 22.23 | 22.39 | 21.26 | 18.18 |
| | | 1712.5 (131997) | 22.24 | 22.12 | 21.27 | 18.14 |
| | 12RB-High (13) | 1777.5 (132647) | 22.39 | 21.35 | 20.07 | 18.11 |
| | | 1745 (132322) | 22.12 | 21.39 | 20.22 | 18.31 |
| | | 1712.5 (131997) | 22.32 | 21.21 | 20.29 | 18.27 |
| | 12RB-Middle (6) | 1777.5 (132647) | 22.29 | 21.06 | 20.22 | 18.15 |
| | | 1745 (132322) | 22.26 | 21.32 | 20.19 | 18.32 |
| | | 1712.5 (131997) | 22.36 | 21.30 | 20.08 | 18.18 |
| | 12RB-Low (0) | 1777.5 (132647) | 22.19 | 21.38 | 20.28 | 18.22 |
| | | 1745 (132322) | 22.12 | 21.17 | 20.33 | 18.19 |
| | | 1712.5 (131997) | 22.34 | 21.37 | 20.24 | 18.13 |
| | 25RB (0) | 1777.5 (132647) | 22.28 | 21.33 | 20.15 | 18.14 |
| | | 1745 (132322) | 22.11 | 21.24 | 20.20 | 18.39 |
| | | 1712.5 (131997) | 22.06 | 21.24 | 20.09 | 18.32 |
| | | | | | | |
| 10MHz | 1RB-High (49) | 1775 (132622) | 22.15 | 22.40 | 21.32 | 18.21 |
| | | 1745 (132322) | 22.35 | 22.26 | 21.37 | 18.12 |
| | | 1715 (132022) | 22.12 | 22.34 | 21.08 | 18.35 |
| | 1RB-Middle (24) | 1775 (132622) | 22.09 | 22.07 | 21.14 | 18.20 |
| | | 1745 (132322) | 22.10 | 22.14 | 21.07 | 18.15 |
| | | 1715 (132022) | 22.36 | 22.34 | 21.13 | 18.38 |
| | 1RB-Low (0) | 1775 (132622) | 22.26 | 22.18 | 21.16 | 18.20 |
| | | 1745 (132322) | 22.35 | 22.25 | 21.11 | 18.36 |
| | | 1715 (132022) | 22.24 | 22.37 | 21.13 | 18.17 |
| | 25RB-High (25) | 1775 (132622) | 22.30 | 21.40 | 20.39 | 18.41 |
| | | 1745 (132322) | 22.09 | 21.14 | 20.36 | 18.33 |
| | | 1715 (132022) | 22.35 | 21.08 | 20.31 | 18.42 |
| | 25RB-Middle (12) | 1775 (132622) | 22.15 | 21.39 | 20.37 | 18.16 |
| | | 1745 (132322) | 22.35 | 21.26 | 20.13 | 18.22 |
| | | 1715 (132022) | 22.28 | 21.39 | 20.16 | 18.44 |
| | 25RB-Low (0) | 1775 (132622) | 22.28 | 21.30 | 20.11 | 18.36 |
| | | 1745 (132322) | 22.16 | 21.12 | 20.29 | 18.26 |
| | | 1715 (132022) | 22.34 | 21.34 | 20.30 | 18.35 |
| | 50RB (0) | 1775 (132622) | 22.17 | 21.09 | 20.27 | 18.28 |
| | | 1745 (132322) | 22.39 | 21.12 | 20.35 | 18.35 |
| | | 1715 (132022) | 22.10 | 21.28 | 20.11 | 18.13 |

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|---|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 1772.5 (132597) | 22.32 | 22.21 | 21.23 | 18.11 |
| | | 1745 (132322) | 22.23 | 22.06 | 21.08 | 18.44 |
| | | 1717.5 (132047) | 22.27 | 22.06 | 21.30 | 18.10 |
| | 1RB-Middle (37) | 1772.5 (132597) | 22.16 | 22.07 | 21.11 | 18.18 |
| | | 1745 (132322) | 22.24 | 22.20 | 21.16 | 18.45 |
| | | 1717.5 (132047) | 22.39 | 22.06 | 21.37 | 18.31 |
| | 1RB-Low (0) | 1772.5 (132597) | 22.06 | 22.36 | 21.20 | 18.10 |
| | | 1745 (132322) | 22.25 | 22.38 | 21.13 | 18.39 |
| | | 1717.5 (132047) | 22.18 | 22.11 | 21.22 | 18.42 |
| | 36RB-High (38) | 1772.5 (132597) | 22.16 | 21.30 | 20.10 | 18.16 |
| | | 1745 (132322) | 22.16 | 21.12 | 20.35 | 18.44 |
| | | 1717.5 (132047) | 22.39 | 21.21 | 20.23 | 18.43 |
| | 36RB-Middle (19) | 1772.5 (132597) | 22.15 | 21.29 | 20.35 | 18.12 |
| | | 1745 (132322) | 22.32 | 21.32 | 20.05 | 18.26 |
| | | 1717.5 (132047) | 22.22 | 21.32 | 20.37 | 18.13 |
| | 36RB-Low (0) | 1772.5 (132597) | 22.39 | 21.24 | 20.29 | 18.30 |
| | | 1745 (132322) | 22.38 | 21.35 | 20.30 | 18.18 |
| | | 1717.5 (132047) | 22.08 | 21.30 | 20.39 | 18.41 |
| | 75RB (0) | 1772.5 (132597) | 22.23 | 21.38 | 20.26 | 18.38 |
| | | 1745 (132322) | 22.32 | 21.40 | 20.20 | 18.23 |
| | | 1717.5 (132047) | 22.09 | 21.06 | 20.11 | 18.12 |
| | | | | | | |
| 20MHz | 1RB-High (99) | 1770 (132572) | 22.32 | 22.09 | 21.07 | 18.38 |
| | | 1745 (132322) | 22.29 | 22.29 | 21.05 | 18.28 |
| | | 1720 (132072) | 22.18 | 22.21 | 21.23 | 18.12 |
| | 1RB-Middle (50) | 1770 (132572) | 22.21 | 22.32 | 21.22 | 18.41 |
| | | 1745 (132322) | 22.27 | 22.13 | 21.29 | 18.43 |
| | | 1720 (132072) | 22.13 | 22.06 | 21.36 | 18.19 |
| | 1RB-Low (0) | 1770 (132572) | 22.21 | 22.17 | 21.19 | 18.31 |
| | | 1745 (132322) | 22.25 | 22.36 | 21.17 | 18.32 |
| | | 1720 (132072) | 22.15 | 22.12 | 21.37 | 18.19 |
| | 50RB-High (50) | 1770 (132572) | 22.21 | 21.12 | 20.28 | 18.41 |
| | | 1745 (132322) | 22.19 | 21.07 | 20.15 | 18.27 |
| | | 1720 (132072) | 22.12 | 21.05 | 20.30 | 18.45 |
| | 50RB-Middle (25) | 1770 (132572) | 22.29 | 21.22 | 20.31 | 18.10 |
| | | 1745 (132322) | 22.24 | 21.12 | 20.40 | 18.45 |
| | | 1720 (132072) | 22.10 | 21.13 | 20.38 | 18.38 |
| | 50RB-Low (0) | 1770 (132572) | 22.16 | 21.15 | 20.23 | 18.41 |
| | | 1745 (132322) | 22.22 | 21.13 | 20.15 | 18.12 |
| | | 1720 (132072) | 22.07 | 21.13 | 20.06 | 18.12 |
| | 100RB (0) | 1770 (132572) | 22.18 | 21.10 | 20.21 | 18.37 |
| | | 1745 (132322) | 22.22 | 21.07 | 20.28 | 18.16 |
| | | 1720 (132072) | 22.12 | 21.34 | 20.39 | 18.12 |

## 11.3 NR 5G Measurement result

**Maximum Target Power for Production Unit**

| Band | Duty Cycle | ANT | Tune up (dBm) | | |
|---|---|---|---|---|---|
| | | | D | E | F |
| n2 | 100% | 5 | 14.5 | 18 | 21 |
| n5 | 100% | 1 | 25 | 25 | 25 |
| n66 | 100% | 1 | 24.5 | 17 | 17 |
| n66 | 100% | 5 | 16.5 | 20 | 22 |
| n77 PC2 | 50% | 4 | 18.5 | 22.5 | 25 |
| n77 PC3 | 80% | 4 | 17.5 | 20 | 22 |

**Maximum Power Reduction (MPR) for NR (power class 3)**

| Modulation | | MPR(dB) | | |
|---|---|---|---|---|
| | | Edge RB allocations | Outer RB allocations | Inner RB allocations |
| DFT-s-OFDM | Pi/2 BPSK | ≤3.5 | ≤1.2 | ≤0.2 |
| | | ≤0.5 | | 0 |
| | QPSK | ≤1 | | 0 |
| | 16 QAM | ≤2 | | ≤1 |
| | 64 QAM | ≤2.5 | | |
| | 256 QAM | ≤4.5 | | |
| CP-OFDM | QPSK | ≤3 | | ≤1.5 |
| | 16 QAM | ≤3 | | ≤2 |
| | 64 QAM | ≤3.5 | | |
| | 256 QAM | ≤6.5 | | |

**Maximum Power Reduction (MPR) for NR (power class 2)**

| Modulation | | MPR(dB) | | |
|---|---|---|---|---|
| | | Edge RB allocations | Outer RB allocations | Inner RB allocations |
| DFT-s-OFDM | Pi/2 BPSK | ≤3.5 | ≤0.5 | 0 |
| | QPSK | ≤3.5 | ≤1 | 0 |
| | 16 QAM | ≤3.5 | ≤2 | ≤1 |
| | 64 QAM | ≤3.5 | ≤2.5 | |
| | 256 QAM | ≤4.5 | | |
| CP-OFDM | QPSK | ≤3.5 | ≤3 | ≤1.5 |
| | 16 QAM | ≤3.5 | ≤3 | ≤2 |
| | 64 QAM | ≤3.5 | | |
| | 256 QAM | ≤6.5 | | |

## N2 ANT5_D

| No. | Test Freq Description | 5G-n2 | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | n2 |
| 1 | High | 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1907.5 | 381500 | 13.69 |
| 2 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1880 | 376000 | 13.71 |
| 3 | Low | 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1852.5 | 370500 | 13.66 |
| 4 | High | 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 1900 | 380000 | 13.69 |
| 5 | Middle | 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 1880 | 376000 | 13.69 |
| 6 | Low | 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 1860 | 372000 | 13.66 |

According to the table above, the maximum power configuration is selected as the default test configuration

| No. | Test Freq Description | 5G-n2 | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | n8 |
| 1 | Middle | 15 | 5 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 12_6 | 1880 | 376000 | 13.66 |
| 2 | Middle | 15 | 5 | DFT-s-OFDM 16QAM | Inner_Full | 12_6 | 1880 | 376000 | 13.66 |
| 3 | Middle | 15 | 5 | DFT-s-OFDM 64QAM | Inner_Full | 12_6 | 1880 | 376000 | 13.57 |
| 4 | Middle | 15 | 5 | DFT-s-OFDM 256QAM | Inner_Full | 12_6 | 1880 | 376000 | 13.66 |
| 5 | Middle | 15 | 5 | CP-OFDM QPSK | Inner_Full | 12_6 | 1880 | 376000 | 13.67 |
| 6 | Middle | 15 | 5 | CP-OFDM 16QAM | Inner_Full | 12_6 | 1880 | 376000 | 13.62 |
| 7 | Middle | 15 | 5 | CP-OFDM 64QAM | Inner_Full | 12_6 | 1880 | 376000 | 13.61 |
| 8 | Middle | 15 | 5 | CP-OFDM 256QAM | Inner_Full | 12_6 | 1880 | 376000 | 13.66 |
| 9 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Right | 2_23 | 1880 | 376000 | 13.63 |
| 10 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Left | 2_0 | 1880 | 376000 | 13.63 |
| 11 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1_24 | 1880 | 376000 | 13.65 |
| 12 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1_0 | 1880 | 376000 | 13.66 |
| 13 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1_23 | 1880 | 376000 | 13.65 |
| 14 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1_1 | 1880 | 376000 | 13.66 |
| 15 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Outer_Full | 25_0 | 1880 | 376000 | 13.68 |
| 16 | Middle | 15 | 10 | DFT-s-OFDM QPSK | Inner_Full | 25_12 | 1880 | 376000 | 13.69 |
| 17 | Middle | 15 | 15 | DFT-s-OFDM QPSK | Inner_Full | 36_18 | 1880 | 376000 | 13.69 |

## N2 ANT5_E

| No. | Test Freq Description | 5G-n2 | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | n2 |
| 1 | High | 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1907.5 | 381500 | 17.43 |
| 2 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1880 | 376000 | 17.46 |
| 3 | Low | 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1852.5 | 370500 | 17.40 |
| 4 | High | 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 1900 | 380000 | 17.43 |
| 5 | Middle | 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 1880 | 376000 | 17.44 |
| 6 | Low | 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 1860 | 372000 | 17.40 |

According to the table above, the maximum power configuration is selected as the default test configuration

| No. | Test Freq Description | 5G-n2 | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | n8 |
| 1 | Middle | 15 | 5 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 12_6 | 1880 | 376000 | 17.40 |
| 2 | Middle | 15 | 5 | DFT-s-OFDM 16QAM | Inner_Full | 12_6 | 1880 | 376000 | 17.39 |
| 3 | Middle | 15 | 5 | DFT-s-OFDM 64QAM | Inner_Full | 12_6 | 1880 | 376000 | 17.28 |
| 4 | Middle | 15 | 5 | DFT-s-OFDM 256QAM | Inner_Full | 12_6 | 1880 | 376000 | 17.40 |
| 5 | Middle | 15 | 5 | CP-OFDM QPSK | Inner_Full | 12_6 | 1880 | 376000 | 17.41 |
| 6 | Middle | 15 | 5 | CP-OFDM 16QAM | Inner_Full | 12_6 | 1880 | 376000 | 17.35 |
| 7 | Middle | 15 | 5 | CP-OFDM 64QAM | Inner_Full | 12_6 | 1880 | 376000 | 17.34 |
| 8 | Middle | 15 | 5 | CP-OFDM 256QAM | Inner_Full | 12_6 | 1880 | 376000 | 16.99 |
| 9 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Right | 2_23 | 1880 | 376000 | 17.37 |
| 10 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Left | 2_0 | 1880 | 376000 | 17.37 |
| 11 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1_24 | 1880 | 376000 | 17.38 |
| 12 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1_0 | 1880 | 376000 | 17.40 |
| 13 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1_23 | 1880 | 376000 | 17.38 |
| 14 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1_1 | 1880 | 376000 | 17.40 |
| 15 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Outer_Full | 25_0 | 1880 | 376000 | 17.42 |
| 16 | Middle | 15 | 10 | DFT-s-OFDM QPSK | Inner_Full | 25_12 | 1880 | 376000 | 17.43 |
| 17 | Middle | 15 | 15 | DFT-s-OFDM QPSK | Inner_Full | 36_18 | 1880 | 376000 | 17.44 |

## N2 ANT5_F

| No. | Test Freq Description | 5G-n2 | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | n2 |
| 1 | High | 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1907.5 | 381500 | 20.39 |
| 2 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1880 | 376000 | 20.42 |
| 3 | Low | 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1852.5 | 370500 | 20.35 |
| 4 | High | 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 1900 | 380000 | 20.39 |
| 5 | Middle | 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 1880 | 376000 | 20.39 |
| 6 | Low | 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 1860 | 372000 | 20.35 |
| According to the table above, the maximum power configuration is selected as the default test configuration | | | | | | | | | |

| No. | Test Freq Description | 5G-n2 | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | n8 |
| 1 | Middle | 15 | 5 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 12_6 | 1880 | 376000 | 20.35 |
| 2 | Middle | 15 | 5 | DFT-s-OFDM 16QAM | Inner_Full | 12_6 | 1880 | 376000 | 20.33 |
| 3 | Middle | 15 | 5 | DFT-s-OFDM 64QAM | Inner_Full | 12_6 | 1880 | 376000 | 20.32 |
| 4 | Middle | 15 | 5 | DFT-s-OFDM 256QAM | Inner_Full | 12_6 | 1880 | 376000 | 18.78 |
| 5 | Middle | 15 | 5 | CP-OFDM QPSK | Inner_Full | 12_6 | 1880 | 376000 | 20.38 |
| 6 | Middle | 15 | 5 | CP-OFDM 16QAM | Inner_Full | 12_6 | 1880 | 376000 | 20.32 |
| 7 | Middle | 15 | 5 | CP-OFDM 64QAM | Inner_Full | 12_6 | 1880 | 376000 | 19.96 |
| 8 | Middle | 15 | 5 | CP-OFDM 256QAM | Inner_Full | 12_6 | 1880 | 376000 | 16.74 |
| 9 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Right | 2_23 | 1880 | 376000 | 20.30 |
| 10 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Left | 2_0 | 1880 | 376000 | 20.31 |
| 11 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1_24 | 1880 | 376000 | 20.33 |
| 12 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1_0 | 1880 | 376000 | 20.35 |
| 13 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1_23 | 1880 | 376000 | 20.33 |
| 14 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1_1 | 1880 | 376000 | 20.35 |
| 15 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Outer_Full | 25_0 | 1880 | 376000 | 20.28 |
| 16 | Middle | 15 | 10 | DFT-s-OFDM QPSK | Inner_Full | 25_12 | 1880 | 376000 | 20.31 |
| 17 | Middle | 15 | 15 | DFT-s-OFDM QPSK | Inner_Full | 36_18 | 1880 | 376000 | 20.30 |

## N5 ANT1_D/E/F

| No. | Test Freq Description | 5G-n5 | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | n5 |
| 1 | High | 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 846.5 | 169300 | 23.62 |
| 2 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 836.5 | 167300 | 23.68 |
| 3 | Low | 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 826.5 | 165300 | 23.65 |
| 4 | High | 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 839 | 167800 | 23.66 |
| 5 | Middle | 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 836.5 | 167300 | 23.65 |
| 6 | Low | 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 834 | 166800 | 23.63 |
| According to the table above, the maximum power configuration is selected as the default test configuration | | | | | | | | | |

| No. | Test Freq Description | 5G-n5 | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | n5 |
| 1 | Middle | 15 | 5 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 12_6 | 836.5 | 167300 | 23.66 |
| 2 | Middle | 15 | 5 | DFT-s-OFDM 16QAM | Inner_Full | 12_6 | 836.5 | 167300 | 22.73 |
| 3 | Middle | 15 | 5 | DFT-s-OFDM 64QAM | Inner_Full | 12_6 | 836.5 | 167300 | 21.24 |
| 4 | Middle | 15 | 5 | DFT-s-OFDM 256QAM | Inner_Full | 12_6 | 836.5 | 167300 | 19.27 |
| 5 | Middle | 15 | 5 | CP-OFDM QPSK | Inner_Full | 12_6 | 836.5 | 167300 | 22.27 |
| 6 | Middle | 15 | 5 | CP-OFDM 16QAM | Inner_Full | 12_6 | 836.5 | 167300 | 21.86 |
| 7 | Middle | 15 | 5 | CP-OFDM 64QAM | Inner_Full | 12_6 | 836.5 | 167300 | 20.28 |
| 8 | Middle | 15 | 5 | CP-OFDM 256QAM | Inner_Full | 12_6 | 836.5 | 167300 | 17.22 |
| 9 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Right | 2_23 | 836.5 | 167300 | 22.78 |
| 10 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Left | 2_0 | 836.5 | 167300 | 22.77 |
| 11 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1_24 | 836.5 | 167300 | 22.63 |
| 12 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1_0 | 836.5 | 167300 | 22.71 |
| 13 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1_23 | 836.5 | 167300 | 23.58 |
| 14 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1_1 | 836.5 | 167300 | 23.59 |
| 15 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Outer_Full | 25_0 | 836.5 | 167300 | 22.75 |
| 16 | Middle | 15 | 10 | DFT-s-OFDM QPSK | Inner_Full | 25_12 | 836.5 | 167300 | 23.66 |
| 17 | Middle | 15 | 15 | DFT-s-OFDM QPSK | Inner_Full | 36_18 | 836.5 | 167300 | 23.64 |

## N66 ANT1_D

| No. | Test Freq Description | 5G-n66 | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | n28 |
| 1 | High | 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1777.5 | 355500 | 22.87 |
| 2 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1745 | 349000 | 22.90 |
| 3 | Low | 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1712.5 | 342500 | 22.84 |
| 4 | High | 15 | 40 | DFT-s-OFDM QPSK | Inner_Full | 108_54 | 1760 | 352000 | 22.88 |
| 5 | Middle | 15 | 40 | DFT-s-OFDM QPSK | Inner_Full | 108_54 | 1745 | 349000 | 22.88 |
| 6 | Low | 15 | 40 | DFT-s-OFDM QPSK | Inner_Full | 108_54 | 1730 | 346000 | 22.82 |

According to the table above, the maximum power configuration is selected as the default test configuration

| No. | Test Freq Description | 5G-n66 | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | n28 |
| 1 | Middle | 15 | 5 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 12_6 | 1745 | 349000 | 22.85 |
| 2 | Middle | 15 | 5 | DFT-s-OFDM 16QAM | Inner_Full | 12_6 | 1745 | 349000 | 21.89 |
| 3 | Middle | 15 | 5 | DFT-s-OFDM 64QAM | Inner_Full | 12_6 | 1745 | 349000 | 20.41 |
| 4 | Middle | 15 | 5 | DFT-s-OFDM 256QAM | Inner_Full | 12_6 | 1745 | 349000 | 18.58 |
| 5 | Middle | 15 | 5 | CP-OFDM QPSK | Inner_Full | 12_6 | 1745 | 349000 | 21.42 |
| 6 | Middle | 15 | 5 | CP-OFDM 16QAM | Inner_Full | 12_6 | 1745 | 349000 | 20.98 |
| 7 | Middle | 15 | 5 | CP-OFDM 64QAM | Inner_Full | 12_6 | 1745 | 349000 | 19.60 |
| 8 | Middle | 15 | 5 | CP-OFDM 256QAM | Inner_Full | 12_6 | 1745 | 349000 | 16.55 |
| 9 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Right | 2_23 | 1745 | 349000 | 21.92 |
| 10 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Left | 2_0 | 1745 | 349000 | 21.93 |
| 11 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1_24 | 1745 | 349000 | 21.85 |
| 12 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1_0 | 1745 | 349000 | 21.83 |
| 13 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1_23 | 1745 | 349000 | 22.85 |
| 14 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1_1 | 1745 | 349000 | 22.84 |
| 15 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Outer_Full | 25_0 | 1745 | 349000 | 21.93 |
| 16 | Middle | 15 | 10 | DFT-s-OFDM QPSK | Inner_Full | 25_12 | 1745 | 349000 | 22.68 |
| 17 | Middle | 15 | 15 | DFT-s-OFDM QPSK | Inner_Full | 36_18 | 1745 | 349000 | 22.69 |
| 18 | Middle | 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 1745 | 349000 | 22.66 |
| 19 | Middle | 15 | 25 | DFT-s-OFDM QPSK | Inner_Full | 64-32 | 1745 | 349000 | 22.66 |
| 20 | Middle | 15 | 30 | DFT-s-OFDM QPSK | Inner_Full | 80_40 | 1745 | 349000 | 22.67 |

## N66 ANT1_E/F

| No. | Test Freq Description | 5G-n66 | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | n28 |
| 1 | High | 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1777.5 | 355500 | 15.96 |
| 2 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1745 | 349000 | 15.98 |
| 3 | Low | 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1712.5 | 342500 | 15.94 |
| 4 | High | 15 | 40 | DFT-s-OFDM QPSK | Inner_Full | 108_54 | 1760 | 352000 | 15.96 |
| 5 | Middle | 15 | 40 | DFT-s-OFDM QPSK | Inner_Full | 108_54 | 1745 | 349000 | 15.96 |
| 6 | Low | 15 | 40 | DFT-s-OFDM QPSK | Inner_Full | 108_54 | 1730 | 346000 | 15.92 |

According to the table above, the maximum power configuration is selected as the default test configuration

| No. | Test Freq Description | 5G-n66 | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | n28 |
| 1 | Middle | 15 | 5 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 12_6 | 1745 | 349000 | 15.95 |
| 2 | Middle | 15 | 5 | DFT-s-OFDM 16QAM | Inner_Full | 12_6 | 1745 | 349000 | 15.92 |
| 3 | Middle | 15 | 5 | DFT-s-OFDM 64QAM | Inner_Full | 12_6 | 1745 | 349000 | 15.84 |
| 4 | Middle | 15 | 5 | DFT-s-OFDM 256QAM | Inner_Full | 12_6 | 1745 | 349000 | 15.89 |
| 5 | Middle | 15 | 5 | CP-OFDM QPSK | Inner_Full | 12_6 | 1745 | 349000 | 15.91 |
| 6 | Middle | 15 | 5 | CP-OFDM 16QAM | Inner_Full | 12_6 | 1745 | 349000 | 15.92 |
| 7 | Middle | 15 | 5 | CP-OFDM 64QAM | Inner_Full | 12_6 | 1745 | 349000 | 15.94 |
| 8 | Middle | 15 | 5 | CP-OFDM 256QAM | Inner_Full | 12_6 | 1745 | 349000 | 15.97 |
| 9 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Right | 2_23 | 1745 | 349000 | 15.94 |
| 10 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Left | 2_0 | 1745 | 349000 | 15.95 |
| 11 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1_24 | 1745 | 349000 | 15.96 |
| 12 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1_0 | 1745 | 349000 | 15.92 |
| 13 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1_23 | 1745 | 349000 | 15.95 |
| 14 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1_1 | 1745 | 349000 | 15.94 |
| 15 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Outer_Full | 25_0 | 1745 | 349000 | 15.87 |
| 16 | Middle | 15 | 10 | DFT-s-OFDM QPSK | Inner_Full | 25_12 | 1745 | 349000 | 15.83 |
| 17 | Middle | 15 | 15 | DFT-s-OFDM QPSK | Inner_Full | 36_18 | 1745 | 349000 | 15.84 |
| 18 | Middle | 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 1745 | 349000 | 15.81 |
| 19 | Middle | 15 | 25 | DFT-s-OFDM QPSK | Inner_Full | 64-32 | 1745 | 349000 | 15.81 |
| 20 | Middle | 15 | 30 | DFT-s-OFDM QPSK | Inner_Full | 80_40 | 1745 | 349000 | 15.82 |

## N66 ANT5_D

| No. | Test Freq Description | 5G-n66 | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | n28 |
| 1 | High | 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1777.5 | 355500 | 15.63 |
| 2 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1745 | 349000 | 15.64 |
| 3 | Low | 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1712.5 | 342500 | 15.60 |
| 4 | High | 15 | 40 | DFT-s-OFDM QPSK | Inner_Full | 108_54 | 1760 | 352000 | 15.63 |
| 5 | Middle | 15 | 40 | DFT-s-OFDM QPSK | Inner_Full | 108_54 | 1745 | 349000 | 15.63 |
| 6 | Low | 15 | 40 | DFT-s-OFDM QPSK | Inner_Full | 108_54 | 1730 | 346000 | 15.59 |

According to the table above, the maximum power configuration is selected as the default test configuration

| No. | Test Freq Description | 5G-n66 | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | n28 |
| 1 | Middle | 15 | 5 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 12_6 | 1745 | 349000 | 15.61 |
| 2 | Middle | 15 | 5 | DFT-s-OFDM 16QAM | Inner_Full | 12_6 | 1745 | 349000 | 15.60 |
| 3 | Middle | 15 | 5 | DFT-s-OFDM 64QAM | Inner_Full | 12_6 | 1745 | 349000 | 15.58 |
| 4 | Middle | 15 | 5 | DFT-s-OFDM 256QAM | Inner_Full | 12_6 | 1745 | 349000 | 15.21 |
| 5 | Middle | 15 | 5 | CP-OFDM QPSK | Inner_Full | 12_6 | 1745 | 349000 | 15.61 |
| 6 | Middle | 15 | 5 | CP-OFDM 16QAM | Inner_Full | 12_6 | 1745 | 349000 | 15.63 |
| 7 | Middle | 15 | 5 | CP-OFDM 64QAM | Inner_Full | 12_6 | 1745 | 349000 | 15.62 |
| 8 | Middle | 15 | 5 | CP-OFDM 256QAM | Inner_Full | 12_6 | 1745 | 349000 | 15.62 |
| 9 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Right | 2_23 | 1745 | 349000 | 15.63 |
| 10 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Left | 2_0 | 1745 | 349000 | 15.63 |
| 11 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1_24 | 1745 | 349000 | 15.65 |
| 12 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1_0 | 1745 | 349000 | 15.64 |
| 13 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1_23 | 1745 | 349000 | 15.61 |
| 14 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1_1 | 1745 | 349000 | 15.60 |
| 15 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Outer_Full | 25_0 | 1745 | 349000 | 15.63 |
| 16 | Middle | 15 | 10 | DFT-s-OFDM QPSK | Inner_Full | 25_12 | 1745 | 349000 | 15.59 |
| 17 | Middle | 15 | 15 | DFT-s-OFDM QPSK | Inner_Full | 36_18 | 1745 | 349000 | 15.60 |
| 18 | Middle | 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 1745 | 349000 | 15.65 |
| 19 | Middle | 15 | 25 | DFT-s-OFDM QPSK | Inner_Full | 64-32 | 1745 | 349000 | 15.61 |
| 20 | Middle | 15 | 30 | DFT-s-OFDM QPSK | Inner_Full | 80_40 | 1745 | 349000 | 15.62 |

## N66 ANT5_E

| No. | Test Freq Description | 5G-n66 | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | n28 |
| 1 | High | 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1777.5 | 355500 | 19.15 |
| 2 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1745 | 349000 | 19.17 |
| 3 | Low | 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1712.5 | 342500 | 19.12 |
| 4 | High | 15 | 40 | DFT-s-OFDM QPSK | Inner_Full | 108_54 | 1760 | 352000 | 19.15 |
| 5 | Middle | 15 | 40 | DFT-s-OFDM QPSK | Inner_Full | 108_54 | 1745 | 349000 | 19.15 |
| 6 | Low | 15 | 40 | DFT-s-OFDM QPSK | Inner_Full | 108_54 | 1730 | 346000 | 19.10 |

According to the table above, the maximum power configuration is selected as the default test configuration

| No. | Test Freq Description | 5G-n66 | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | n28 |
| 1 | Middle | 15 | 5 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 12_6 | 1745 | 349000 | 19.13 |
| 2 | Middle | 15 | 5 | DFT-s-OFDM 16QAM | Inner_Full | 12_6 | 1745 | 349000 | 19.12 |
| 3 | Middle | 15 | 5 | DFT-s-OFDM 64QAM | Inner_Full | 12_6 | 1745 | 349000 | 19.09 |
| 4 | Middle | 15 | 5 | DFT-s-OFDM 256QAM | Inner_Full | 12_6 | 1745 | 349000 | 18.56 |
| 5 | Middle | 15 | 5 | CP-OFDM QPSK | Inner_Full | 12_6 | 1745 | 349000 | 19.13 |
| 6 | Middle | 15 | 5 | CP-OFDM 16QAM | Inner_Full | 12_6 | 1745 | 349000 | 19.16 |
| 7 | Middle | 15 | 5 | CP-OFDM 64QAM | Inner_Full | 12_6 | 1745 | 349000 | 19.14 |
| 8 | Middle | 15 | 5 | CP-OFDM 256QAM | Inner_Full | 12_6 | 1745 | 349000 | 16.75 |
| 9 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Right | 2_23 | 1745 | 349000 | 19.15 |
| 10 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Left | 2_0 | 1745 | 349000 | 19.16 |
| 11 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1_24 | 1745 | 349000 | 19.19 |
| 12 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1_0 | 1745 | 349000 | 19.17 |
| 13 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1_23 | 1745 | 349000 | 19.13 |
| 14 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1_1 | 1745 | 349000 | 19.12 |
| 15 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Outer_Full | 25_0 | 1745 | 349000 | 19.16 |
| 16 | Middle | 15 | 10 | DFT-s-OFDM QPSK | Inner_Full | 25_12 | 1745 | 349000 | 19.10 |
| 17 | Middle | 15 | 15 | DFT-s-OFDM QPSK | Inner_Full | 36_18 | 1745 | 349000 | 19.12 |
| 18 | Middle | 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 1745 | 349000 | 19.18 |
| 19 | Middle | 15 | 25 | DFT-s-OFDM QPSK | Inner_Full | 64-32 | 1745 | 349000 | 19.13 |
| 20 | Middle | 15 | 30 | DFT-s-OFDM QPSK | Inner_Full | 80_40 | 1745 | 349000 | 19.14 |

## N66 ANT5_F

| No. | Test Freq Description | 5G-n66 | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | n28 |
| 1 | High | 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1777.5 | 355500 | 21.24 |
| 2 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1745 | 349000 | 21.26 |
| 3 | Low | 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 1712.5 | 342500 | 21.20 |
| 4 | High | 15 | 40 | DFT-s-OFDM QPSK | Inner_Full | 108_54 | 1760 | 352000 | 21.21 |
| 5 | Middle | 15 | 40 | DFT-s-OFDM QPSK | Inner_Full | 108_54 | 1745 | 349000 | 21.20 |
| 6 | Low | 15 | 40 | DFT-s-OFDM QPSK | Inner_Full | 108_54 | 1730 | 346000 | 21.18 |

According to the table above, the maximum power configuration is selected as the default test configuration

| No. | Test Freq Description | 5G-n66 | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | n28 |
| 1 | Middle | 15 | 5 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 12_6 | 1745 | 349000 | 21.17 |
| 2 | Middle | 15 | 5 | DFT-s-OFDM 16QAM | Inner_Full | 12_6 | 1745 | 349000 | 21.16 |
| 3 | Middle | 15 | 5 | DFT-s-OFDM 64QAM | Inner_Full | 12_6 | 1745 | 349000 | 21.13 |
| 4 | Middle | 15 | 5 | DFT-s-OFDM 256QAM | Inner_Full | 12_6 | 1745 | 349000 | 18.57 |
| 5 | Middle | 15 | 5 | CP-OFDM QPSK | Inner_Full | 12_6 | 1745 | 349000 | 21.17 |
| 6 | Middle | 15 | 5 | CP-OFDM 16QAM | Inner_Full | 12_6 | 1745 | 349000 | 21.33 |
| 7 | Middle | 15 | 5 | CP-OFDM 64QAM | Inner_Full | 12_6 | 1745 | 349000 | 20.09 |
| 8 | Middle | 15 | 5 | CP-OFDM 256QAM | Inner_Full | 12_6 | 1745 | 349000 | 16.88 |
| 9 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Right | 2_23 | 1745 | 349000 | 21.19 |
| 10 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Left | 2_0 | 1745 | 349000 | 21.20 |
| 11 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1_24 | 1745 | 349000 | 21.20 |
| 12 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1_0 | 1745 | 349000 | 21.21 |
| 13 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1_23 | 1745 | 349000 | 21.17 |
| 14 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1_1 | 1745 | 349000 | 21.16 |
| 15 | Middle | 15 | 5 | DFT-s-OFDM QPSK | Outer_Full | 25_0 | 1745 | 349000 | 21.20 |
| 16 | Middle | 15 | 10 | DFT-s-OFDM QPSK | Inner_Full | 25_12 | 1745 | 349000 | 21.14 |
| 17 | Middle | 15 | 15 | DFT-s-OFDM QPSK | Inner_Full | 36_18 | 1745 | 349000 | 21.16 |
| 18 | Middle | 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 1745 | 349000 | 21.18 |
| 19 | Middle | 15 | 25 | DFT-s-OFDM QPSK | Inner_Full | 64-32 | 1745 | 349000 | 21.17 |
| 20 | Middle | 15 | 30 | DFT-s-OFDM QPSK | Inner_Full | 80_40 | 1745 | 349000 | 21.18 |

## N77-L PC2 ANT4_D

| No. | Test Freq Description | 5G-N77-L | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | N77-L |
| 1 | High | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3544.98 | 636332 | 16.94 |
| 2 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3500.01 | 633334 | 16.97 |
| 3 | Low | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3445.01 | 630334 | 16.84 |
| 4 | Middle | 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135_67 | 3500.01 | 633334 | 16.84 |

According to the table above, the maximum power configuration is selected as the default test configuration

| No. | Test Freq Description | 5G-N77-L | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | N77-L |
| 1 | Middle | 30 | 10 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 12_6 | 3500.01 | 633334 | 16.82 |
| 2 | Middle | 30 | 10 | DFT-s-OFDM 16QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 16.86 |
| 3 | Middle | 30 | 10 | DFT-s-OFDM 64QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 16.83 |
| 4 | Middle | 30 | 10 | DFT-s-OFDM 256QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 16.89 |
| 5 | Middle | 30 | 10 | CP-OFDM QPSK | Inner_Full | 12_6 | 3500.01 | 633334 | 16.89 |
| 6 | Middle | 30 | 10 | CP-OFDM 16QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 16.89 |
| 7 | Middle | 30 | 10 | CP-OFDM 64QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 16.85 |
| 8 | Middle | 30 | 10 | CP-OFDM 256QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 16.86 |
| 9 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1_23 | 3500.01 | 633334 | 16.80 |
| 10 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1_0 | 3500.01 | 633334 | 16.88 |
| 11 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Edge_Full_Right | 2_22 | 3500.01 | 633334 | 16.81 |
| 12 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Edge_Full_Left | 2_0 | 3500.01 | 633334 | 16.90 |
| 13 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1_22 | 3500.01 | 633334 | 16.88 |
| 14 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1_1 | 3500.01 | 633334 | 16.83 |
| 15 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Outer_Full | 24_0 | 3500.01 | 633334 | 16.81 |
| 16 | Middle | 30 | 15 | DFT-s-OFDM QPSK | Inner_Full | 18_9 | 3500.01 | 633334 | 16.81 |
| 19 | High | 30 | 40 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 3470.01 | 631334 | 16.81 |
| 20 | High | 30 | 50 | DFT-s-OFDM QPSK | Inner_Full | 64_32 | 3475.02 | 631668 | 16.86 |
| 21 | Middle-5 | 30 | 60 | DFT-s-OFDM QPSK | Inner_Full | 81_40 | 3500.01 | 633334 | 16.80 |
| 22 | Middle-5 | 30 | 70 | DFT-s-OFDM QPSK | Inner_Full | 90_45 | 3500.01 | 633334 | 16.88 |
| 23 | Middle-5 | 30 | 80 | DFT-s-OFDM QPSK | Inner_Full | 108_54 | 3500.01 | 633334 | 16.88 |
| 24 | Middle-5 | 30 | 90 | DFT-s-OFDM QPSK | Inner_Full | 120_60 | 3500.01 | 633334 | 16.80 |

## N77-L PC2 ANT4_E

| No. | Test Freq Description | 5G-N77-L | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | N77-L |
| 1 | High | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3544.98 | 636332 | 20.83 |
| 2 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3500.01 | 633334 | 20.86 |
| 3 | Low | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3445.01 | 630334 | 20.79 |
| 4 | Middle | 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135_67 | 3500.01 | 633334 | 20.74 |

According to the table above, the maximum power configuration is selected as the default test configuration

| No. | Test Freq Description | 5G-N77-L | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | N77-L |
| 1 | Middle | 30 | 10 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 12_6 | 3500.01 | 633334 | 20.76 |
| 2 | Middle | 30 | 10 | DFT-s-OFDM 16QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 20.75 |
| 3 | Middle | 30 | 10 | DFT-s-OFDM 64QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 20.74 |
| 4 | Middle | 30 | 10 | DFT-s-OFDM 256QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 20.73 |
| 5 | Middle | 30 | 10 | CP-OFDM QPSK | Inner_Full | 12_6 | 3500.01 | 633334 | 20.69 |
| 6 | Middle | 30 | 10 | CP-OFDM 16QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 20.70 |
| 7 | Middle | 30 | 10 | CP-OFDM 64QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 20.72 |
| 8 | Middle | 30 | 10 | CP-OFDM 256QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 18.61 |
| 9 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1_23 | 3500.01 | 633334 | 20.71 |
| 10 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1_0 | 3500.01 | 633334 | 20.66 |
| 11 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Edge_Full_Right | 2_22 | 3500.01 | 633334 | 20.69 |
| 12 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Edge_Full_Left | 2_0 | 3500.01 | 633334 | 20.66 |
| 13 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1_22 | 3500.01 | 633334 | 20.68 |
| 14 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1_1 | 3500.01 | 633334 | 20.76 |
| 15 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Outer_Full | 24_0 | 3500.01 | 633334 | 20.71 |
| 16 | Middle | 30 | 15 | DFT-s-OFDM QPSK | Inner_Full | 18_9 | 3500.01 | 633334 | 20.66 |
| 19 | High | 30 | 40 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 3470.01 | 631334 | 20.71 |
| 20 | High | 30 | 50 | DFT-s-OFDM QPSK | Inner_Full | 64_32 | 3475.02 | 631668 | 20.75 |
| 21 | Middle-5 | 30 | 60 | DFT-s-OFDM QPSK | Inner_Full | 81_40 | 3500.01 | 633334 | 20.65 |
| 22 | Middle-5 | 30 | 70 | DFT-s-OFDM QPSK | Inner_Full | 90_45 | 3500.01 | 633334 | 20.68 |
| 23 | Middle-5 | 30 | 80 | DFT-s-OFDM QPSK | Inner_Full | 108_54 | 3500.01 | 633334 | 20.74 |
| 24 | Middle-5 | 30 | 90 | DFT-s-OFDM QPSK | Inner_Full | 120_60 | 3500.01 | 633334 | 20.70 |

## N77-L PC2 ANT4_F

| No. | Test Freq Description | 5G-N77-L | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | N77-L |
| 1 | High | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3544.98 | 636332 | 24.92 |
| 2 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3500.01 | 633334 | 24.95 |
| 3 | Low | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3445.01 | 630334 | 24.91 |
| 4 | Middle | 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135_67 | 3500.01 | 633334 | 24.91 |

According to the table above, the maximum power configuration is selected as the default test configuration

| No. | Test Freq Description | 5G-N77-L | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | N77-L |
| 1 | Middle | 30 | 10 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 12_6 | 3500.01 | 633334 | 24.90 |
| 2 | Middle | 30 | 10 | DFT-s-OFDM 16QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 24.38 |
| 3 | Middle | 30 | 10 | DFT-s-OFDM 64QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 22.84 |
| 4 | Middle | 30 | 10 | DFT-s-OFDM 256QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 20.87 |
| 5 | Middle | 30 | 10 | CP-OFDM QPSK | Inner_Full | 12_6 | 3500.01 | 633334 | 23.79 |
| 6 | Middle | 30 | 10 | CP-OFDM 16QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 23.35 |
| 7 | Middle | 30 | 10 | CP-OFDM 64QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 21.82 |
| 8 | Middle | 30 | 10 | CP-OFDM 256QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 18.73 |
| 9 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1_23 | 3500.01 | 633334 | 21.83 |
| 10 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1_0 | 3500.01 | 633334 | 21.84 |
| 11 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Edge_Full_Right | 2_22 | 3500.01 | 633334 | 21.86 |
| 12 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Edge_Full_Left | 2_0 | 3500.01 | 633334 | 21.87 |
| 13 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1_22 | 3500.01 | 633334 | 24.97 |
| 14 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1_1 | 3500.01 | 633334 | 24.85 |
| 15 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Outer_Full | 24_0 | 3500.01 | 633334 | 24.35 |
| 16 | Middle | 30 | 15 | DFT-s-OFDM QPSK | Inner_Full | 18_9 | 3500.01 | 633334 | 24.94 |
| 19 | High | 30 | 40 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 3470.01 | 631334 | 24.93 |
| 20 | High | 30 | 50 | DFT-s-OFDM QPSK | Inner_Full | 64_32 | 3475.02 | 631668 | 24.91 |
| 21 | Middle-5 | 30 | 60 | DFT-s-OFDM QPSK | Inner_Full | 81_40 | 3500.01 | 633334 | 24.86 |
| 22 | Middle-5 | 30 | 70 | DFT-s-OFDM QPSK | Inner_Full | 90_45 | 3500.01 | 633334 | 24.83 |
| 23 | Middle-5 | 30 | 80 | DFT-s-OFDM QPSK | Inner_Full | 108_54 | 3500.01 | 633334 | 24.86 |
| 24 | Middle-5 | 30 | 90 | DFT-s-OFDM QPSK | Inner_Full | 120_60 | 3500.01 | 633334 | 24.90 |

**N77-H PC2 ANT4_D**

| No. | Test Freq Description | 5G-N77H | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | N7H |
| 1 | High | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3975 | 665000 | 16.92 |
| 2 | Middle-1 | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3921 | 661400 | 16.88 |
| 3 | Middle-2 | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3867 | 657800 | 16.99 |
| 4 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3813 | 654200 | 17.02 |
| 5 | Middle-5 | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3759 | 650600 | 16.83 |
| 6 | Low | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3705 | 647000 | 16.74 |
| 7 | High | 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135_67 | 3930 | 662000 | 16.77 |
| 8 | Middle-1 | 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135_67 | 3750 | 650000 | 16.78 |
| According to the table above, the maximum power configuration is selected as the default test configuration | | | | | | | | | |

| No. | Test Freq Description | 5G-N77H | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | N7H |
| 1 | Middle-3 | 30 | 10 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 12_6 | 3813 | 654200 | 16.96 |
| 2 | Middle-3 | 30 | 10 | DFT-s-OFDM 16QAM | Inner_Full | 12_6 | 3813 | 654200 | 17.00 |
| 3 | Middle-3 | 30 | 10 | DFT-s-OFDM 64QAM | Inner_Full | 12_6 | 3813 | 654200 | 16.95 |
| 4 | Middle-3 | 30 | 10 | DFT-s-OFDM 256QAM | Inner_Full | 12_6 | 3813 | 654200 | 16.92 |
| 5 | Middle-3 | 30 | 10 | CP-OFDM QPSK | Inner_Full | 12_6 | 3813 | 654200 | 16.99 |
| 6 | Middle-3 | 30 | 10 | CP-OFDM 16QAM | Inner_Full | 12_6 | 3813 | 654200 | 17.00 |
| 7 | Middle-3 | 30 | 10 | CP-OFDM 64QAM | Inner_Full | 12_6 | 3813 | 654200 | 16.94 |
| 8 | Middle-3 | 30 | 10 | CP-OFDM 256QAM | Inner_Full | 12_6 | 3813 | 654200 | 16.93 |
| 9 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1_23 | 3813 | 654200 | 16.97 |
| 10 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1_0 | 3813 | 654200 | 16.92 |
| 11 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Edge_Full_Right | 2_22 | 3813 | 654200 | 17.00 |
| 12 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Edge_Full_Left | 2_0 | 3813 | 654200 | 16.98 |
| 15 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Outer_Full | 24_0 | 3813 | 654200 | 16.97 |
| 16 | Low | 30 | 15 | DFT-s-OFDM QPSK | Inner_Full | 18_9 | 3707.52 | 647168 | 16.91 |
| 17 | Low | 30 | 20 | DFT-s-OFDM QPSK | Inner_Full | 25_12 | 3710.01 | 647334 | 16.96 |
| 18 | Low | 30 | 30 | DFT-s-OFDM QPSK | Inner_Full | 36_18 | 3715.02 | 647668 | 17.00 |
| 19 | Low | 30 | 40 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 3720 | 648000 | 16.91 |
| 20 | Low | 30 | 50 | DFT-s-OFDM QPSK | Inner_Full | 64_32 | 3725.01 | 648334 | 16.95 |
| 21 | Low | 30 | 60 | DFT-s-OFDM QPSK | Inner_Full | 81_40 | 3730.02 | 648668 | 16.99 |
| 22 | Low | 30 | 70 | DFT-s-OFDM QPSK | Inner_Full | 90_45 | 3735 | 649000 | 16.98 |
| 23 | Low | 30 | 80 | DFT-s-OFDM QPSK | Inner_Full | 108_54 | 3740.01 | 649334 | 16.99 |
| 24 | Low | 30 | 90 | DFT-s-OFDM QPSK | Inner_Full | 120_60 | 3745.02 | 649668 | 16.96 |

**N77-H PC2 ANT4_E**

| No. | Test Freq Description | 5G-N77H | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | N7H |
| 1 | High | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3975 | 665000 | 20.78 |
| 2 | Middle-1 | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3921 | 661400 | 20.79 |
| 3 | Middle-2 | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3867 | 657800 | 20.94 |
| 4 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3813 | 654200 | 20.95 |
| 5 | Middle-5 | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3759 | 650600 | 20.89 |
| 6 | Low | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3705 | 647000 | 20.70 |
| 7 | High | 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135_67 | 3930 | 662000 | 20.68 |
| 8 | Middle-1 | 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135_67 | 3750 | 650000 | 20.74 |

According to the table above, the maximum power configuration is selected as the default test configuration

| No. | Test Freq Description | 5G-N77H | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | N7H |
| 1 | Middle-3 | 30 | 10 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 12_6 | 3813 | 654200 | 20.89 |
| 2 | Middle-3 | 30 | 10 | DFT-s-OFDM 16QAM | Inner_Full | 12_6 | 3813 | 654200 | 20.88 |
| 3 | Middle-3 | 30 | 10 | DFT-s-OFDM 64QAM | Inner_Full | 12_6 | 3813 | 654200 | 20.80 |
| 4 | Middle-3 | 30 | 10 | DFT-s-OFDM 256QAM | Inner_Full | 12_6 | 3813 | 654200 | 20.85 |
| 5 | Middle-3 | 30 | 10 | CP-OFDM QPSK | Inner_Full | 12_6 | 3813 | 654200 | 20.88 |
| 6 | Middle-3 | 30 | 10 | CP-OFDM 16QAM | Inner_Full | 12_6 | 3813 | 654200 | 20.90 |
| 7 | Middle-3 | 30 | 10 | CP-OFDM 64QAM | Inner_Full | 12_6 | 3813 | 654200 | 20.87 |
| 8 | Middle-3 | 30 | 10 | CP-OFDM 256QAM | Inner_Full | 12_6 | 3813 | 654200 | 18.81 |
| 9 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1_23 | 3813 | 654200 | 20.86 |
| 10 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1_0 | 3813 | 654200 | 20.86 |
| 11 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Edge_Full_Right | 2_22 | 3813 | 654200 | 20.82 |
| 12 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Edge_Full_Left | 2_0 | 3813 | 654200 | 20.85 |
| 15 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Outer_Full | 24_0 | 3813 | 654200 | 20.81 |
| 16 | Low | 30 | 15 | DFT-s-OFDM QPSK | Inner_Full | 18_9 | 3707.52 | 647168 | 20.90 |
| 17 | Low | 30 | 20 | DFT-s-OFDM QPSK | Inner_Full | 25_12 | 3710.01 | 647334 | 20.80 |
| 18 | Low | 30 | 30 | DFT-s-OFDM QPSK | Inner_Full | 36_18 | 3715.02 | 647668 | 20.82 |
| 19 | Low | 30 | 40 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 3720 | 648000 | 20.84 |
| 20 | Low | 30 | 50 | DFT-s-OFDM QPSK | Inner_Full | 64_32 | 3725.01 | 648334 | 20.87 |
| 21 | Low | 30 | 60 | DFT-s-OFDM QPSK | Inner_Full | 81_40 | 3730.02 | 648668 | 20.87 |
| 22 | Low | 30 | 70 | DFT-s-OFDM QPSK | Inner_Full | 90_45 | 3735 | 649000 | 20.83 |
| 23 | Low | 30 | 80 | DFT-s-OFDM QPSK | Inner_Full | 108_54 | 3740.01 | 649334 | 20.85 |
| 24 | Low | 30 | 90 | DFT-s-OFDM QPSK | Inner_Full | 120_60 | 3745.02 | 649668 | 20.90 |

**N77-H PC2 ANT4_F**

| No. | Test Freq Description | 5G-N77H | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | N7H |
| 1 | High | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3975 | 665000 | 23.39 |
| 2 | Middle-1 | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3921 | 661400 | 23.41 |
| 3 | Middle-2 | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3867 | 657800 | 23.43 |
| 4 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3813 | 654200 | 23.48 |
| 5 | Middle-5 | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3759 | 650600 | 23.43 |
| 6 | Low | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3705 | 647000 | 23.15 |
| 7 | High | 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135_67 | 3930 | 662000 | 23.32 |
| 8 | Middle-1 | 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135_67 | 3750 | 650000 | 23.26 |

According to the table above, the maximum power configuration is selected as the default test configuration

| No. | Test Freq Description | 5G-N77H | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | N7H |
| 1 | Middle-3 | 30 | 10 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 12_6 | 3813 | 654200 | 23.39 |
| 2 | Middle-3 | 30 | 10 | DFT-s-OFDM 16QAM | Inner_Full | 12_6 | 3813 | 654200 | 23.53 |
| 3 | Middle-3 | 30 | 10 | DFT-s-OFDM 64QAM | Inner_Full | 12_6 | 3813 | 654200 | 22.98 |
| 4 | Middle-3 | 30 | 10 | DFT-s-OFDM 256QAM | Inner_Full | 12_6 | 3813 | 654200 | 20.95 |
| 5 | Middle-3 | 30 | 10 | CP-OFDM QPSK | Inner_Full | 12_6 | 3813 | 654200 | 23.56 |
| 6 | Middle-3 | 30 | 10 | CP-OFDM 16QAM | Inner_Full | 12_6 | 3813 | 654200 | 23.64 |
| 7 | Middle-3 | 30 | 10 | CP-OFDM 64QAM | Inner_Full | 12_6 | 3813 | 654200 | 22.03 |
| 8 | Middle-3 | 30 | 10 | CP-OFDM 256QAM | Inner_Full | 12_6 | 3813 | 654200 | 18.83 |
| 9 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1_23 | 3813 | 654200 | 21.90 |
| 10 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1_0 | 3813 | 654200 | 21.86 |
| 11 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Edge_Full_Right | 2_22 | 3813 | 654200 | 21.89 |
| 12 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Edge_Full_Left | 2_0 | 3813 | 654200 | 21.90 |
| 15 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Outer_Full | 24_0 | 3813 | 654200 | 23.38 |
| 16 | Low | 30 | 15 | DFT-s-OFDM QPSK | Inner_Full | 18_9 | 3707.52 | 647168 | 23.34 |
| 17 | Low | 30 | 20 | DFT-s-OFDM QPSK | Inner_Full | 25_12 | 3710.01 | 647334 | 23.31 |
| 18 | Low | 30 | 30 | DFT-s-OFDM QPSK | Inner_Full | 36_18 | 3715.02 | 647668 | 23.36 |
| 19 | Low | 30 | 40 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 3720 | 648000 | 23.33 |
| 20 | Low | 30 | 50 | DFT-s-OFDM QPSK | Inner_Full | 64_32 | 3725.01 | 648334 | 23.30 |
| 21 | Low | 30 | 60 | DFT-s-OFDM QPSK | Inner_Full | 81_40 | 3730.02 | 648668 | 23.34 |
| 22 | Low | 30 | 70 | DFT-s-OFDM QPSK | Inner_Full | 90_45 | 3735 | 649000 | 23.35 |
| 23 | Low | 30 | 80 | DFT-s-OFDM QPSK | Inner_Full | 108_54 | 3740.01 | 649334 | 23.25 |
| 24 | Low | 30 | 90 | DFT-s-OFDM QPSK | Inner_Full | 120_60 | 3745.02 | 649668 | 23.21 |

## N77-L PC3 ANT4_D

| No. | Test Freq Description | 5G-N77-L | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | N77-L |
| 1 | High | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3544.98 | 636332 | 15.88 |
| 2 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3500.01 | 633334 | 15.89 |
| 3 | Low | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3445.01 | 630334 | 15.84 |
| 4 | Middle | 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135_67 | 3500.01 | 633334 | 15.87 |

According to the table above, the maximum power configuration is selected as the default test configuration

| No. | Test Freq Description | 5G-N77-L | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | N77-L |
| 1 | Middle | 30 | 10 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 12_6 | 3500.01 | 633334 | 15.86 |
| 2 | Middle | 30 | 10 | DFT-s-OFDM 16QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 15.80 |
| 3 | Middle | 30 | 10 | DFT-s-OFDM 64QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 15.83 |
| 4 | Middle | 30 | 10 | DFT-s-OFDM 256QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 15.80 |
| 5 | Middle | 30 | 10 | CP-OFDM QPSK | Inner_Full | 12_6 | 3500.01 | 633334 | 15.83 |
| 6 | Middle | 30 | 10 | CP-OFDM 16QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 15.82 |
| 7 | Middle | 30 | 10 | CP-OFDM 64QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 15.84 |
| 8 | Middle | 30 | 10 | CP-OFDM 256QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 15.83 |
| 9 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1_23 | 3500.01 | 633334 | 15.82 |
| 10 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1_0 | 3500.01 | 633334 | 15.84 |
| 11 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Edge_Full_Right | 2_22 | 3500.01 | 633334 | 15.87 |
| 12 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Edge_Full_Left | 2_0 | 3500.01 | 633334 | 15.85 |
| 13 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1_22 | 3500.01 | 633334 | 15.83 |
| 14 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1_1 | 3500.01 | 633334 | 15.86 |
| 15 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Outer_Full | 24_0 | 3500.01 | 633334 | 15.88 |
| 16 | Middle | 30 | 15 | DFT-s-OFDM QPSK | Inner_Full | 18_9 | 3500.01 | 633334 | 15.85 |
| 19 | High | 30 | 40 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 3470.01 | 631334 | 15.87 |
| 20 | High | 30 | 50 | DFT-s-OFDM QPSK | Inner_Full | 64_32 | 3475.02 | 631668 | 15.81 |
| 21 | Middle-5 | 30 | 60 | DFT-s-OFDM QPSK | Inner_Full | 81_40 | 3500.01 | 633334 | 15.84 |
| 22 | Middle-5 | 30 | 70 | DFT-s-OFDM QPSK | Inner_Full | 90_45 | 3500.01 | 633334 | 15.80 |
| 23 | Middle-5 | 30 | 80 | DFT-s-OFDM QPSK | Inner_Full | 108_54 | 3500.01 | 633334 | 15.86 |
| 24 | Middle-5 | 30 | 90 | DFT-s-OFDM QPSK | Inner_Full | 120_60 | 3500.01 | 633334 | 15.81 |

## N77-L PC3 ANT4_E

| No. | Test Freq Description | 5G-N77-L | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | N77-L |
| 1 | High | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3544.98 | 636332 | 18.49 |
| 2 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3500.01 | 633334 | 18.51 |
| 3 | Low | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3445.01 | 630334 | 18.50 |
| 4 | Middle | 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135_67 | 3500.01 | 633334 | 18.35 |

According to the table above, the maximum power configuration is selected as the default test configuration

| No. | Test Freq Description | 5G-N77-L | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | N77-L |
| 1 | Middle | 30 | 10 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 12_6 | 3500.01 | 633334 | 18.47 |
| 2 | Middle | 30 | 10 | DFT-s-OFDM 16QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 18.34 |
| 3 | Middle | 30 | 10 | DFT-s-OFDM 64QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 18.45 |
| 4 | Middle | 30 | 10 | DFT-s-OFDM 256QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 18.35 |
| 5 | Middle | 30 | 10 | CP-OFDM QPSK | Inner_Full | 12_6 | 3500.01 | 633334 | 18.41 |
| 6 | Middle | 30 | 10 | CP-OFDM 16QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 18.48 |
| 7 | Middle | 30 | 10 | CP-OFDM 64QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 18.44 |
| 8 | Middle | 30 | 10 | CP-OFDM 256QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 18.42 |
| 9 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1_23 | 3500.01 | 633334 | 18.46 |
| 10 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1_0 | 3500.01 | 633334 | 18.48 |
| 11 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Edge_Full_Right | 2_22 | 3500.01 | 633334 | 18.40 |
| 12 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Edge_Full_Left | 2_0 | 3500.01 | 633334 | 18.33 |
| 13 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1_22 | 3500.01 | 633334 | 18.46 |
| 14 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1_1 | 3500.01 | 633334 | 18.38 |
| 15 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Outer_Full | 24_0 | 3500.01 | 633334 | 18.34 |
| 16 | Middle | 30 | 15 | DFT-s-OFDM QPSK | Inner_Full | 18_9 | 3500.01 | 633334 | 18.37 |
| 19 | High | 30 | 40 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 3470.01 | 631334 | 18.39 |
| 20 | High | 30 | 50 | DFT-s-OFDM QPSK | Inner_Full | 64_32 | 3475.02 | 631668 | 18.43 |
| 21 | Middle-5 | 30 | 60 | DFT-s-OFDM QPSK | Inner_Full | 81_40 | 3500.01 | 633334 | 18.34 |
| 22 | Middle-5 | 30 | 70 | DFT-s-OFDM QPSK | Inner_Full | 90_45 | 3500.01 | 633334 | 18.38 |
| 23 | Middle-5 | 30 | 80 | DFT-s-OFDM QPSK | Inner_Full | 108_54 | 3500.01 | 633334 | 18.34 |
| 24 | Middle-5 | 30 | 90 | DFT-s-OFDM QPSK | Inner_Full | 120_60 | 3500.01 | 633334 | 18.49 |

**N77-L PC3 ANT4_F**

| No. | Test Freq Description | 5G-N77-L | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | N77-L |
| 1 | High | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3544.98 | 636332 | 20.24 |
| 2 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3500.01 | 633334 | 20.25 |
| 3 | Low | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3445.01 | 630334 | 20.19 |
| 4 | Middle | 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135_67 | 3500.01 | 633334 | 20.22 |
| According to the table above, the maximum power configuration is selected as the default test configuration | | | | | | | | | |

| No. | Test Freq Description | 5G-N77-L | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | N77-L |
| 1 | Middle | 30 | 10 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 12_6 | 3500.01 | 633334 | 20.11 |
| 2 | Middle | 30 | 10 | DFT-s-OFDM 16QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 20.23 |
| 3 | Middle | 30 | 10 | DFT-s-OFDM 64QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 20.17 |
| 4 | Middle | 30 | 10 | DFT-s-OFDM 256QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 20.19 |
| 5 | Middle | 30 | 10 | CP-OFDM QPSK | Inner_Full | 12_6 | 3500.01 | 633334 | 20.21 |
| 6 | Middle | 30 | 10 | CP-OFDM 16QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 20.13 |
| 7 | Middle | 30 | 10 | CP-OFDM 64QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 20.15 |
| 8 | Middle | 30 | 10 | CP-OFDM 256QAM | Inner_Full | 12_6 | 3500.01 | 633334 | 18.59 |
| 9 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1_23 | 3500.01 | 633334 | 20.06 |
| 10 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1_0 | 3500.01 | 633334 | 20.09 |
| 11 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Edge_Full_Right | 2_22 | 3500.01 | 633334 | 20.12 |
| 12 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Edge_Full_Left | 2_0 | 3500.01 | 633334 | 20.10 |
| 13 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1_22 | 3500.01 | 633334 | 20.07 |
| 14 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1_1 | 3500.01 | 633334 | 20.11 |
| 15 | Middle | 30 | 10 | DFT-s-OFDM QPSK | Outer_Full | 24_0 | 3500.01 | 633334 | 20.14 |
| 16 | Middle | 30 | 15 | DFT-s-OFDM QPSK | Inner_Full | 18_9 | 3500.01 | 633334 | 20.10 |
| 19 | High | 30 | 40 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 3470.01 | 631334 | 20.12 |
| 20 | High | 30 | 50 | DFT-s-OFDM QPSK | Inner_Full | 64_32 | 3475.02 | 631668 | 20.05 |
| 21 | Middle-5 | 30 | 60 | DFT-s-OFDM QPSK | Inner_Full | 81_40 | 3500.01 | 633334 | 20.09 |
| 22 | Middle-5 | 30 | 70 | DFT-s-OFDM QPSK | Inner_Full | 90_45 | 3500.01 | 633334 | 20.04 |
| 23 | Middle-5 | 30 | 80 | DFT-s-OFDM QPSK | Inner_Full | 108_54 | 3500.01 | 633334 | 20.11 |
| 24 | Middle-5 | 30 | 90 | DFT-s-OFDM QPSK | Inner_Full | 120_60 | 3500.01 | 633334 | 20.05 |

**N77-H PC3 ANT4_D**

| No. | Test Freq Description | 5G-N77H | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | N7H |
| 1 | High | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3975 | 665000 | 15.74 |
| 2 | Middle-1 | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3921 | 661400 | 15.77 |
| 3 | Middle-2 | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3867 | 657800 | 15.96 |
| 4 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3813 | 654200 | 16.01 |
| 5 | Middle-5 | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3759 | 650600 | 15.89 |
| 6 | Low | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3705 | 647000 | 15.81 |
| 7 | High | 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135_67 | 3930 | 662000 | 15.71 |
| 8 | Middle-1 | 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135_67 | 3750 | 650000 | 15.84 |
| According to the table above, the maximum power configuration is selected as the default test configuration | | | | | | | | | |

| No. | Test Freq Description | 5G-N77H | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | N7H |
| 1 | Middle-3 | 30 | 10 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 12_6 | 3813 | 654200 | 15.86 |
| 2 | Middle-3 | 30 | 10 | DFT-s-OFDM 16QAM | Inner_Full | 12_6 | 3813 | 654200 | 15.83 |
| 3 | Middle-3 | 30 | 10 | DFT-s-OFDM 64QAM | Inner_Full | 12_6 | 3813 | 654200 | 15.80 |
| 4 | Middle-3 | 30 | 10 | DFT-s-OFDM 256QAM | Inner_Full | 12_6 | 3813 | 654200 | 15.80 |
| 5 | Middle-3 | 30 | 10 | CP-OFDM QPSK | Inner_Full | 12_6 | 3813 | 654200 | 15.85 |
| 6 | Middle-3 | 30 | 10 | CP-OFDM 16QAM | Inner_Full | 12_6 | 3813 | 654200 | 15.80 |
| 7 | Middle-3 | 30 | 10 | CP-OFDM 64QAM | Inner_Full | 12_6 | 3813 | 654200 | 15.88 |
| 8 | Middle-3 | 30 | 10 | CP-OFDM 256QAM | Inner_Full | 12_6 | 3813 | 654200 | 15.82 |
| 9 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1_23 | 3813 | 654200 | 15.80 |
| 10 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1_0 | 3813 | 654200 | 15.84 |
| 11 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Edge_Full_Right | 2_22 | 3813 | 654200 | 15.80 |
| 12 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Edge_Full_Left | 2_0 | 3813 | 654200 | 15.86 |
| 15 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Outer_Full | 24_0 | 3813 | 654200 | 15.81 |
| 16 | Low | 30 | 15 | DFT-s-OFDM QPSK | Inner_Full | 18_9 | 3707.52 | 647168 | 15.82 |
| 17 | Low | 30 | 20 | DFT-s-OFDM QPSK | Inner_Full | 25_12 | 3710.01 | 647334 | 15.87 |
| 18 | Low | 30 | 30 | DFT-s-OFDM QPSK | Inner_Full | 36_18 | 3715.02 | 647668 | 15.80 |
| 19 | Low | 30 | 40 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 3720 | 648000 | 15.89 |
| 20 | Low | 30 | 50 | DFT-s-OFDM QPSK | Inner_Full | 64_32 | 3725.01 | 648334 | 15.87 |
| 21 | Low | 30 | 60 | DFT-s-OFDM QPSK | Inner_Full | 81_40 | 3730.02 | 648668 | 15.85 |
| 22 | Low | 30 | 70 | DFT-s-OFDM QPSK | Inner_Full | 90_45 | 3735 | 649000 | 15.82 |
| 23 | Low | 30 | 80 | DFT-s-OFDM QPSK | Inner_Full | 108_54 | 3740.01 | 649334 | 15.89 |
| 24 | Low | 30 | 90 | DFT-s-OFDM QPSK | Inner_Full | 120_60 | 3745.02 | 649668 | 15.90 |

**N77-H PC3 ANT4_E**

| No. | Test Freq Description | 5G-N77H | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | N7H |
| 1 | High | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3975 | 665000 | 18.43 |
| 2 | Middle-1 | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3921 | 661400 | 18.39 |
| 3 | Middle-2 | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3867 | 657800 | 18.54 |
| 4 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3813 | 654200 | 18.56 |
| 5 | Middle-5 | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3759 | 650600 | 18.41 |
| 6 | Low | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3705 | 647000 | 18.33 |
| 7 | High | 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135_67 | 3930 | 662000 | 18.30 |
| 8 | Middle-1 | 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135_67 | 3750 | 650000 | 18.34 |
| According to the table above, the maximum power configuration is selected as the default test configuration | | | | | | | | | |

| No. | Test Freq Description | 5G-N77H | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | N7H |
| 1 | Middle-3 | 30 | 10 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 12_6 | 3813 | 654200 | 18.38 |
| 2 | Middle-3 | 30 | 10 | DFT-s-OFDM 16QAM | Inner_Full | 12_6 | 3813 | 654200 | 18.39 |
| 3 | Middle-3 | 30 | 10 | DFT-s-OFDM 64QAM | Inner_Full | 12_6 | 3813 | 654200 | 18.40 |
| 4 | Middle-3 | 30 | 10 | DFT-s-OFDM 256QAM | Inner_Full | 12_6 | 3813 | 654200 | 18.38 |
| 5 | Middle-3 | 30 | 10 | CP-OFDM QPSK | Inner_Full | 12_6 | 3813 | 654200 | 18.39 |
| 6 | Middle-3 | 30 | 10 | CP-OFDM 16QAM | Inner_Full | 12_6 | 3813 | 654200 | 18.40 |
| 7 | Middle-3 | 30 | 10 | CP-OFDM 64QAM | Inner_Full | 12_6 | 3813 | 654200 | 18.38 |
| 8 | Middle-3 | 30 | 10 | CP-OFDM 256QAM | Inner_Full | 12_6 | 3813 | 654200 | 18.38 |
| 9 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1_23 | 3813 | 654200 | 18.38 |
| 10 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1_0 | 3813 | 654200 | 18.40 |
| 11 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Edge_Full_Right | 2_22 | 3813 | 654200 | 18.38 |
| 12 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Edge_Full_Left | 2_0 | 3813 | 654200 | 18.45 |
| 15 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Outer_Full | 24_0 | 3813 | 654200 | 18.39 |
| 16 | Low | 30 | 15 | DFT-s-OFDM QPSK | Inner_Full | 18_9 | 3707.52 | 647168 | 18.41 |
| 17 | Low | 30 | 20 | DFT-s-OFDM QPSK | Inner_Full | 25_12 | 3710.01 | 647334 | 18.37 |
| 18 | Low | 30 | 30 | DFT-s-OFDM QPSK | Inner_Full | 36_18 | 3715.02 | 647668 | 18.38 |
| 19 | Low | 30 | 40 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 3720 | 648000 | 18.40 |
| 20 | Low | 30 | 50 | DFT-s-OFDM QPSK | Inner_Full | 64_32 | 3725.01 | 648334 | 18.37 |
| 21 | Low | 30 | 60 | DFT-s-OFDM QPSK | Inner_Full | 81_40 | 3730.02 | 648668 | 18.34 |
| 22 | Low | 30 | 70 | DFT-s-OFDM QPSK | Inner_Full | 90_45 | 3735 | 649000 | 18.32 |
| 23 | Low | 30 | 80 | DFT-s-OFDM QPSK | Inner_Full | 108_54 | 3740.01 | 649334 | 18.31 |
| 24 | Low | 30 | 90 | DFT-s-OFDM QPSK | Inner_Full | 120_60 | 3745.02 | 649668 | 18.32 |

**N77-H PC3 ANT4_F**

| No. | Test Freq Description | 5G-N77H | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | N7H |
| 1 | High | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3975 | 665000 | 20.34 |
| 2 | Middle-1 | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3921 | 661400 | 20.33 |
| 3 | Middle-2 | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3867 | 657800 | 20.38 |
| 4 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3813 | 654200 | 20.44 |
| 5 | Middle-5 | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3759 | 650600 | 20.35 |
| 6 | Low | 30 | 10 | DFT-s-OFDM QPSK | Inner_Full | 12_6 | 3705 | 647000 | 20.38 |
| 7 | High | 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135_67 | 3930 | 662000 | 20.36 |
| 8 | Middle-1 | 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135_67 | 3750 | 650000 | 20.32 |

According to the table above, the maximum power configuration is selected as the default test configuration

| No. | Test Freq Description | 5G-N77H | | | | | | | Power Results (dBm) |
|---|---|---|---|---|---|---|---|---|---|
| | | SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | N7H |
| 1 | Middle-3 | 30 | 10 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 12_6 | 3813 | 654200 | 20.41 |
| 2 | Middle-3 | 30 | 10 | DFT-s-OFDM 16QAM | Inner_Full | 12_6 | 3813 | 654200 | 20.42 |
| 3 | Middle-3 | 30 | 10 | DFT-s-OFDM 64QAM | Inner_Full | 12_6 | 3813 | 654200 | 20.43 |
| 4 | Middle-3 | 30 | 10 | DFT-s-OFDM 256QAM | Inner_Full | 12_6 | 3813 | 654200 | 20.41 |
| 5 | Middle-3 | 30 | 10 | CP-OFDM QPSK | Inner_Full | 12_6 | 3813 | 654200 | 20.42 |
| 6 | Middle-3 | 30 | 10 | CP-OFDM 16QAM | Inner_Full | 12_6 | 3813 | 654200 | 20.43 |
| 7 | Middle-3 | 30 | 10 | CP-OFDM 64QAM | Inner_Full | 12_6 | 3813 | 654200 | 20.41 |
| 8 | Middle-3 | 30 | 10 | CP-OFDM 256QAM | Inner_Full | 12_6 | 3813 | 654200 | 18.89 |
| 9 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1_23 | 3813 | 654200 | 20.41 |
| 10 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1_0 | 3813 | 654200 | 20.43 |
| 11 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Edge_Full_Right | 2_22 | 3813 | 654200 | 20.41 |
| 12 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Edge_Full_Left | 2_0 | 3813 | 654200 | 20.49 |
| 15 | Middle-3 | 30 | 10 | DFT-s-OFDM QPSK | Outer_Full | 24_0 | 3813 | 654200 | 20.42 |
| 16 | Low | 30 | 15 | DFT-s-OFDM QPSK | Inner_Full | 18_9 | 3707.52 | 647168 | 20.44 |
| 17 | Low | 30 | 20 | DFT-s-OFDM QPSK | Inner_Full | 25_12 | 3710.01 | 647334 | 20.40 |
| 18 | Low | 30 | 30 | DFT-s-OFDM QPSK | Inner_Full | 36_18 | 3715.02 | 647668 | 20.41 |
| 19 | Low | 30 | 40 | DFT-s-OFDM QPSK | Inner_Full | 50_25 | 3720 | 648000 | 20.43 |
| 20 | Low | 30 | 50 | DFT-s-OFDM QPSK | Inner_Full | 64_32 | 3725.01 | 648334 | 20.40 |
| 21 | Low | 30 | 60 | DFT-s-OFDM QPSK | Inner_Full | 81_40 | 3730.02 | 648668 | 20.37 |
| 22 | Low | 30 | 70 | DFT-s-OFDM QPSK | Inner_Full | 90_45 | 3735 | 649000 | 20.34 |
| 23 | Low | 30 | 80 | DFT-s-OFDM QPSK | Inner_Full | 108_54 | 3740.01 | 649334 | 20.33 |
| 24 | Low | 30 | 90 | DFT-s-OFDM QPSK | Inner_Full | 120_60 | 3745.02 | 649668 | 20.34 |

## 11.4 Wi-Fi and BT Measurement result

**The maximum output power for BT**

| GFSK | | | Tune up | EDR2M-4_DQPSK | | | EDR3M-8DPSK | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel 0 | Channel 39 | Channel 78 | | Channel 0 | Channel 39 | Channel 78 | Channel 0 | Channel 39 | Channel 78 |
| 11.17 | 11.20 | 10.91 | 12.00 | 10.32 | 9.94 | 10.09 | 10.15 | 10.19 | 9.33 |

**Tune up**

| Mode | Channel | Set_1 | Set_2 | Set_3 | Set_4 | Set_5 | Set_6 |
|---|---|---|---|---|---|---|---|
| | | Receiver on +Hotspot on/off | Receiver off +Hotspot on | Receiver off +Hotspot off | WWAN+WLAN simultaneous transimssion | WWAN+WLAN simultaneous transimssion | WWAN+WLAN simultaneous transimssion |
| WIFI2.4G | 802.11b CH1-11 | 18.0 | 18.0 | 18.0 | 16.0 | 18.0 | 18.0 |
| | 802.11g CH1 | 16.0 | 16.0 | 16.0 | 14.0 | 16.0 | 16.0 |
| | 802.11g CH2-10 | 17.0 | 17.0 | 17.0 | 15.0 | 17.0 | 17.0 |
| | 802.11g CH11 | 14.0 | 14.0 | 14.0 | 12.0 | 14.0 | 14.0 |
| | 802.11nHT20 CH1 | 15.0 | 15.0 | 15.0 | 13.0 | 15.0 | 15.0 |
| | 802.11nHT20 CH2-10 | 16.0 | 16.0 | 16.0 | 14.0 | 16.0 | 16.0 |
| | 802.11nHT20 CH11 | 13.0 | 13.0 | 13.0 | 11.0 | 13.0 | 13.0 |
| WIFI 5G B1 | 802.11a CH36-48 | 16.5 | 16.5 | 16.5 | 15.5 | 15.5 | 15.5 |
| | 802.11nHT20 CH36-48 | 16.0 | 16.0 | 16.0 | 15.0 | 15.0 | 15.0 |
| | 802.11nHT40 CH38-46 | 16.0 | 16.0 | 16.0 | 15.0 | 15.0 | 15.0 |
| | 802.11acVHT20 CH36-48 | 16.0 | 16.0 | 16.0 | 15.0 | 15.0 | 15.0 |
| | 802.11acVHT40 CH38-46 | 15.5 | 15.5 | 15.5 | 14.5 | 14.5 | 14.5 |
| | 802.11acVHT80 CH42 | 15.0 | 15.0 | 15.0 | 14.0 | 14.0 | 14.0 |
| WIFI 5G B2 | 802.11a CH52-64 | 16.5 | 16.5 | 16.5 | 15.5 | 15.5 | 15.5 |
| | 802.11nHT20 CH52-64 | 16.0 | 16.0 | 16.0 | 15.0 | 15.0 | 15.0 |
| | 802.11nHT40 CH54-62 | 15.0 | 15.0 | 15.0 | 14.0 | 14.0 | 14.0 |
| | 802.11acVHT20 CH52-64 | 16.0 | 16.0 | 16.0 | 15.0 | 15.0 | 15.0 |
| | 802.11acVHT40 CH54-62 | 15.0 | 15.0 | 15.0 | 14.0 | 14.0 | 14.0 |
| | 802.11acVHT80 CH58 | 15.0 | 15.0 | 15.0 | 14.0 | 14.0 | 14.0 |
| WIFI 5G B3 | 802.11a CH100-140 | 15.5 | 15.5 | 15.5 | 14.5 | 14.5 | 14.5 |
| | 802.11nHT20 CH100-140 | 15.0 | 15.0 | 15.0 | 14.0 | 14.0 | 14.0 |
| | 802.11nHT40 CH102-134 | 14.0 | 14.0 | 14.0 | 13.0 | 13.0 | 13.0 |
| | 802.11acVHT20 CH100-140 | 15.0 | 15.0 | 15.0 | 14.0 | 14.0 | 14.0 |
| | 802.11acVHT40 CH102-134 | 15.0 | 15.0 | 15.0 | 14.0 | 14.0 | 14.0 |
| | 802.11acVHT80 CH106-122 | 14.5 | 14.5 | 14.5 | 13.5 | 13.5 | 13.5 |
| WIFI 5G B4 | 802.11a CH149-165 | 16.5 | 16.5 | 16.5 | 15.5 | 15.5 | 15.5 |
| | 802.11nHT20 CH149-165 | 16.0 | 16.0 | 16.0 | 15.0 | 15.0 | 15.0 |
| | 802.11nHT40 CH151-159 | 16.0 | 16.0 | 16.0 | 15.0 | 15.0 | 15.0 |
| | 802.11acVHT20 CH149-165 | 16.0 | 16.0 | 16.0 | 15.0 | 15.0 | 15.0 |
| | 802.11acVHT40 CH151-159 | 15.5 | 15.5 | 15.5 | 14.5 | 14.5 | 14.5 |
| | 802.11acVHT80 CH155 | 15.5 | 15.5 | 15.5 | 14.5 | 14.5 | 14.5 |

**The maximum output power for WiFi 2.4G –Set1/2/3/5/6**

| 802.11b(dBm) | |
|---|---|
| Channel\data rate | 1Mbps |
| 11(2462MHz) | 18.36 |
| 6(2437MHz) | 18.65 |
| 1(2412MHz) | 18.62 |
| 802.11g(dBm) | |
| Channel\data rate | 6Mbps |
| 11(2462MHz) | 17.41 |
| 6(2437MHz) | 17.31 |
| 1(2412MHz) | 17.46 |
| 802.11n(dBm)-20MHz | |
| Channel\data rate | MCS0 |
| 11(2462MHz) | 17.27 |
| 6(2437MHz) | 17.24 |
| 1(2412MHz) | 17.44 |

**The maximum output power for WiFi 2.4G –Set4**

| 802.11b(dBm) | |
|---|---|
| Channel\data rate | 1Mbps |
| 11(2462MHz) | 16.76 |
| 6(2437MHz) | 16.78 |
| 1(2412MHz) | 16.67 |
| 802.11g(dBm) | |
| Channel\data rate | 6Mbps |
| 11(2462MHz) | 15.75 |
| 6(2437MHz) | 15.52 |
| 1(2412MHz) | 15.67 |
| 802.11n(dBm)-20MHz | |
| Channel\data rate | MCS0 |
| 11(2462MHz) | 15.53 |
| 6(2437MHz) | 15.57 |
| 1(2412MHz) | 15.49 |

**The maximum output power for WiFi 5G –Set1/2/3**

| 802.11a(dBm) | |
|---|---|
| Channel\data rate | 6Mbps |
| 36(5180 MHz) | 17.29 |
| 40(5200 MHz) | 17.45 |
| 44(5220 MHz) | 17.43 |
| 48(5240 MHz) | 17.57 |
| 52(5260 MHz) | 17.41 |
| 56(5280 MHz) | 17.75 |
| 60(5300 MHz) | 17.67 |
| 64(5320 MHz) | 17.68 |
| 100(5500 MHz) | 17.02 |
| 104(5520 MHz) | 17.21 |
| 108(5540 MHz) | 17.29 |
| 112(5560 MHz) | 17.25 |
| 116(5580 MHz) | 17.35 |
| 120(5600 MHz) | 17.37 |
| 124(5620 MHz) | 17.35 |
| 128(5640 MHz) | 17.36 |
| 132(5660 MHz) | 17.29 |
| 136(5680 MHz) | 17.24 |
| 140(5700 MHz) | 17.35 |
| 144(5720 MHz) | 17.18 |
| 149(5745 MHz) | 17.32 |
| 153(5765 MHz) | 17.27 |
| 157(5785 MHz) | 17.34 |
| 161(5805 MHz) | 17.26 |
| 165(5825 MHz) | 17.23 |

**The maximum output power for WiFi 5G –Set4/5/6**

| 802.11a(dBm) | |
|---|---|
| Channel\data rate | 6Mbps |
| 36(5180 MHz) | 16.67 |
| 40(5200 MHz) | 16.71 |
| 44(5220 MHz) | 16.72 |
| 48(5240 MHz) | 16.86 |
| 52(5260 MHz) | 16.77 |
| 56(5280 MHz) | 16.98 |
| 60(5300 MHz) | 16.91 |
| 64(5320 MHz) | 16.93 |
| 100(5500 MHz) | 16.00 |
| 104(5520 MHz) | 16.19 |
| 108(5540 MHz) | 16.27 |
| 112(5560 MHz) | 16.23 |
| 116(5580 MHz) | 16.33 |
| 120(5600 MHz) | 16.35 |
| 124(5620 MHz) | 16.33 |
| 128(5640 MHz) | 16.34 |
| 132(5660 MHz) | 16.27 |
| 136(5680 MHz) | 16.22 |
| 140(5700 MHz) | 16.33 |
| 144(5720 MHz) | 16.16 |
| 149(5745 MHz) | 16.65 |
| 153(5765 MHz) | 16.66 |
| 157(5785 MHz) | 16.70 |
| 161(5805 MHz) | 16.57 |
| 165(5825 MHz) | 16.49 |

# 12 Simultaneous TX SAR Considerations

## 12.1 Transmit Antenna Separation Distances

The detail for transmit antenna separation distances is described in the additional document:
Appendix to test report No.24T04Z100392-021
The photos of SAR test

## 12.2 SAR Measurement Positions

According to the KDB941225 D06 Hot Spot SAR, the edges with less than 2.5 cm distance to the antennas need to be tested for SAR.

| Antenna/Sensor-to- DUT sides separation distances | | | | | | |
|---|---|---|---|---|---|---|
| Mode | Front | Rear | Left edge | Right edge | Top edge | Bottom edge |
| Ant.1 | Yes | Yes | No | Yes | No | Yes |
| Ant.4 | Yes | Yes | Yes | No | Yes | No |
| Ant.5 | Yes | Yes | Yes | No | Yes | No |
| Ant.7 | Yes | Yes | No | Yes | Yes | No |

# 13 Evaluation of Simultaneous

## 13.1 Introduction

The following procedures adopted from “FCC SAR Considerations for Cell Phones with Multiple Transmitters” are applicable to handsets with built-in unlicensed transmitters such as WLAN and Bluetooth devices which may simultaneously transmit with the licensed transmitter. KDB 447498 D01 provides two procedures for determining simultaneous transmission SAR test exclusion: Sum of SAR and SAR to Peak Location Ratio (SPLSR)

### 13.1.1 Sum of SAR

To qualify for simultaneous transmission SAR test exclusion based upon Sum of SAR the sum of the reported standalone SARs for all simultaneously transmitting antennas shall be below the applicable standalone SAR limit. If the sum of the SARs is above the applicable limit then simultaneous transmission SAR test exclusion may still apply if the requirements of the SAR to Peak Location Ratio (SPLSR) evaluation are met.

### 13.1.2 SAR to Peak Location Ratio (SPLSR)

KDB 447498 D01 General RF Exposure Guidance explains how to calculate the SAR to Peak Location Ratio (SPLSR) between pairs of simultaneously transmitting antennas:

$SPLSR = (SAR1 + SAR2)^{1.5} / Ri$

Where:

*SAR1* is the highest reported or estimated SAR for the first of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition.

*SAR2* is the highest reported or estimated SAR for the second of a pair of simultaneous transmitting antennas, in the same test operating mode and exposure condition as the first .

*Ri* is the separation distance between the pair of simultaneous transmitting antennas. When the SAR is measured, for both antennas in the pair, it is determined by the actual x, y and z coordinates in the 1-g SAR for each SAR peak location, based on the extrapolated and interpolated result in the zoom scan measurement, using the formula of

$[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$

In order for a pair of simultaneous transmitting antennas with the sum of 1-g SAR > 1.6 W/kg to qualify for exemption from Simultaneous Transmission SAR measurements, it has to satisfy the condition of:

$(SAR1 + SAR2)^{1.5} / Ri \leqslant 0.04$

When an individual antenna transmits at on two bands simultaneously, the sum of the highest reported SAR for the frequency bands should be used to determine SAR1 or SAR2. When SPLSR is necessary, the smallest distance between the peak SAR locations for the antenna pair with respect to the peaks from each antenna should be used.

## 13.2 Simultaneous Transmission Capabilities

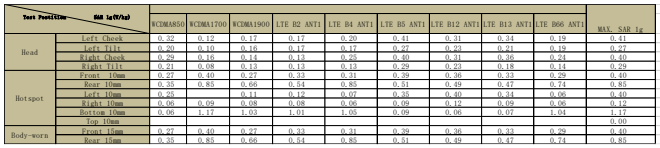
The simultaneous transmission possibilities for this device are listed as below:

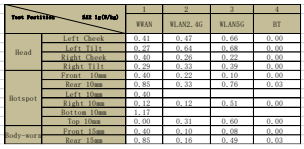
| NO | If support: WWAN*1TX and WLAN*1TX | Y or N |
|---|---|---|
| 1 | WWAN + WLAN 2.4GHz | Y |
| 2 | WWAN + WLAN 2.4GHz +BT | N |
| 3 | WWAN + WLAN 5GHz | Y |
| 4 | WWAN + WLAN 5GHz +BT | Y |

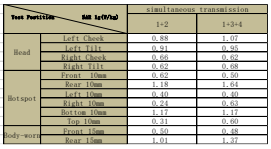
**Note:**

1. The reported SAR summation is calculated based on the same configuration and test position.
2. For the devices edges with antennas more than 2.5 cm from edge are not required to be evaluated for SAR, we determined the SAR of this edges were less than 0.01. For the convenience of simultaneous transmission calculation, all SAR values less than or equal to 0.01 are uniformly written as 0.00

## 13.3 Evaluation of Simultaneous



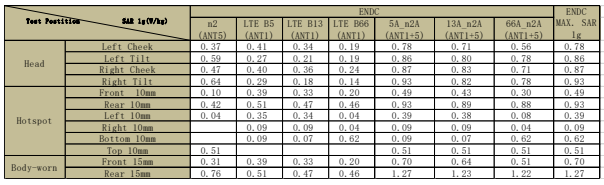


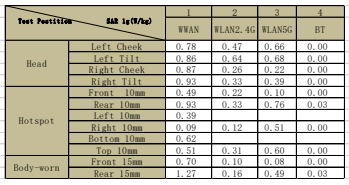


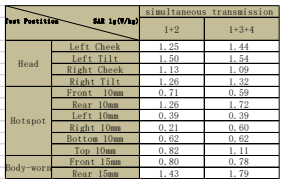
| Position | WWAN (W/kg) | | WLAN5G (W/kg) | BT (W/kg) | Sum (W/kg) | SPLSR |
|---|---|---|---|---|---|---|
| Rear (10mm) | WCDMA1700 | 0.85 | 0.76 | 0.03 | 1.64 | Yes |
| | LTE B4 | 0.85 | 0.76 | 0.03 | 1.64 | Yes |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| WCDMA1700 | Rear 10mm | 0.85 | 148.87 | 1.61 | 0.01 | Not required |
| WLAN 5G | | 0.76 | | | | |
| LTE B4 | Rear 10mm | 0.85 | 150.55 | 1.61 | 0.01 | Not required |
| WLAN 5G | | 0.76 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| WCDMA1700 | Rear 10mm | 0.85 | 149.74 | 0.88 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE B4 | Rear 10mm | 0.85 | 151.29 | 0.88 | 0.01 | Not required |
| BT | | 0.03 | | | | |







| Position | WWAN (W/kg) | | WLAN5G (W/kg) | BT (W/kg) | um (W/kg) | SPLSR |
|---|---|---|---|---|---|---|
| Rear (10mm) | DC_5A_n2A | 0.93 | 0.76 | 0.03 | 1.72 | Yes |
| | DC_13A_n2A | 0.89 | 0.76 | 0.03 | 1.68 | Yes |
| | DC_66A_n2A | 0.88 | 0.76 | 0.03 | 1.67 | Yes |
| Rear (15mm) | DC_5A_n2A | 1.27 | 0.49 | 0.03 | 1.79 | Yes |
| | DC_13A_n2A | 1.23 | 0.49 | 0.03 | 1.75 | Yes |
| | DC_66A_n2A | 1.22 | 0.49 | 0.03 | 1.74 | Yes |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B5 | Rear 10mm | 0.51 | 143.1 | 1.27 | 0.01 | Not required |
| WLAN 5G | | 0.76 | | | | |
| NR n2 | | 0.42 | 46.37 | 1.18 | 0.03 | Not required |
| WLAN 5G | | 0.76 | | | | |
| LTE B13 | Rear 10mm | 0.47 | 144.18 | 1.23 | 0.01 | Not required |
| WLAN 5G | | 0.76 | | | | |
| NR n2 | | 0.42 | 46.37 | 1.18 | 0.03 | Not required |
| WLAN 5G | | 0.76 | | | | |
| LTE B66 | Rear 10mm | 0.46 | 143.18 | 1.22 | 0.01 | Not required |
| WLAN 5G | | 0.76 | | | | |
| NR n2 | | 0.42 | 46.37 | 1.18 | 0.03 | Not required |
| WLAN 5G | | 0.76 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B5 | Rear 10mm | 0.51 | 142.16 | 0.54 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR n2 | | 0.42 | 31.33 | 0.45 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE B13 | Rear 10mm | 0.47 | 142.92 | 0.5 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR n2 | | 0.42 | 31.33 | 0.45 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE B66 | Rear 10mm | 0.46 | 144.94 | 0.49 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR n2 | | 0.42 | 31.33 | 0.45 | 0.01 | Not required |
| BT | | 0.03 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B5 | Rear 15mm | 0.51 | 151.67 | 1 | 0.01 | Not required |
| WLAN 5G | | 0.49 | | | | |
| NR n2 | | 0.76 | 40.73 | 1.25 | 0.03 | Not required |
| WLAN 5G | | 0.49 | | | | |
| LTE B13 | Rear 15mm | 0.47 | 152.47 | 0.96 | 0.01 | Not required |
| WLAN 5G | | 0.49 | | | | |
| NR n2 | | 0.76 | 40.73 | 1.25 | 0.03 | Not required |
| WLAN 5G | | 0.49 | | | | |
| LTE B66 | Rear 15mm | 0.46 | 153.96 | 0.95 | 0.01 | Not required |
| WLAN 5G | | 0.49 | | | | |
| NR n2 | | 0.76 | 40.73 | 1.25 | 0.03 | Not required |
| WLAN 5G | | 0.49 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B5 | Rear 15mm | 0.51 | 142.16 | 0.54 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR n2 | | 0.76 | 37.67 | 0.79 | 0.02 | Not required |
| BT | | 0.03 | | | | |
| LTE B13 | Rear 15mm | 0.47 | 142.92 | 0.5 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR n2 | | 0.76 | 37.67 | 0.79 | 0.02 | Not required |
| BT | | 0.03 | | | | |
| LTE B66 | Rear 15mm | 0.46 | 144.94 | 0.49 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR n2 | | 0.76 | 37.67 | 0.79 | 0.02 | Not required |
| BT | | 0.03 | | | | |

| Test Position / SAR 1g(W/kg) | | ENDC n5 (ANT1) | ENDC LTE B2 (ANT5) | ENDC LTE B66 (ANT5) | ENDC 2A_n5A (ANT5+1) | ENDC 66A_n5A (ANT5+1) | ENDC MAX. SAR 1g |
|---|---|---|---|---|---|---|---|
| Head | Left Cheek | 0.38 | 0.39 | 0.35 | 0.77 | 0.73 | 0.77 |
| | Left Tilt | 0.24 | 0.53 | 0.42 | 0.77 | 0.66 | 0.77 |
| | Right Cheek | 0.41 | 0.54 | 0.50 | 0.95 | 0.91 | 0.95 |
| | Right Tilt | 0.26 | 0.75 | 0.65 | 1.01 | 0.91 | 1.01 |
| Hotspot | Front 10mm | 0.39 | 0.31 | 0.47 | 0.70 | 0.86 | 0.86 |
| | Rear 10mm | 0.53 | 0.54 | 0.61 | 1.07 | 1.14 | 1.14 |
| | Left 10mm | 0.15 | 0.07 | 0.14 | 0.22 | 0.29 | 0.29 |
| | Right 10mm | 0.14 | | | 0.14 | 0.14 | 0.14 |
| | Bottom 10mm | 0.11 | | | 0.11 | 0.11 | 0.11 |
| | Top 10mm | | 0.68 | 0.69 | 0.68 | 0.69 | 0.69 |
| Body-worn | Front 15mm | 0.39 | 0.61 | 0.40 | 1.00 | 0.79 | 1.00 |
| | Rear 15mm | 0.53 | 0.69 | 0.57 | 1.22 | 1.10 | 1.22 |

| Test Position / SAR 1g(W/kg) | | 1 WWAN | 2 WLAN2.4G | 3 WLAN5G | 4 BT |
|---|---|---|---|---|---|
| Head | Left Cheek | 0.77 | 0.47 | 0.66 | 0.00 |
| | Left Tilt | 0.77 | 0.64 | 0.68 | 0.00 |
| | Right Cheek | 0.95 | 0.26 | 0.22 | 0.00 |
| | Right Tilt | 1.01 | 0.33 | 0.39 | 0.00 |
| Hotspot | Front 10mm | 0.86 | 0.22 | 0.10 | 0.00 |
| | Rear 10mm | 1.14 | 0.33 | 0.76 | 0.03 |
| | Left 10mm | 0.29 | | | |
| | Right 10mm | 0.14 | 0.12 | 0.51 | 0.00 |
| | Bottom 10mm | 0.11 | | | |
| | Top 10mm | 0.69 | 0.31 | 0.60 | 0.00 |
| Body-worn | Front 15mm | 1.00 | 0.10 | 0.08 | 0.00 |
| | Rear 15mm | 1.22 | 0.16 | 0.49 | 0.03 |

| Test Position / SAR 1g(W/kg) | | simultaneous transmission 1+2 | simultaneous transmission 1+3+4 |
|---|---|---|---|
| Head | Left Cheek | 1.24 | 1.43 |
| | Left Tilt | 1.41 | 1.45 |
| | Right Cheek | 1.21 | 1.17 |
| | Right Tilt | 1.34 | 1.40 |
| Hotspot | Front 10mm | 1.08 | 0.96 |
| | Rear 10mm | 1.47 | 1.93 |
| | Left 10mm | 0.29 | 0.29 |
| | Right 10mm | 0.26 | 0.65 |
| | Bottom 10mm | 0.11 | 0.11 |
| | Top 10mm | 1.00 | 1.29 |
| Body-worn | Front 15mm | 1.10 | 1.08 |
| | Rear 15mm | 1.38 | 1.74 |

| Position | WWAN (W/kg) | | WLAN5G (W/kg) | BT (W/kg) | Sum (W/kg) | SPLSR |
|---|---|---|---|---|---|---|
| Rear (10mm) | DC_2A_n5A | 1.07 | 0.76 | 0.03 | 1.86 | Yes |
| | DC_66A_n5A | 1.15 | 0.76 | 0.03 | 1.94 | Yes |
| Rear (15mm) | DC_2A_n5A | 1.22 | 0.49 | 0.03 | 1.74 | Yes |
| | DC_66A_n5A | 1.10 | 0.49 | 0.03 | 1.62 | Yes |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B2 | Rear 10mm | 0.54 | 51.37 | 1.3 | 0.03 | Not required |
| WLAN 5G | | 0.76 | | | | |
| NR n5 | | 0.53 | 66.28 | 1.29 | 0.02 | Not required |
| WLAN 5G | | 0.76 | | | | |
| LTE B66 | Rear 10mm | 0.61 | 54.26 | 1.37 | 0.03 | Not required |
| WLAN 5G | | 0.76 | | | | |
| NR n5 | | 0.53 | 66.28 | 1.29 | 0.02 | Not required |
| WLAN 5G | | 0.76 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B2 | Rear 10mm | 0.54 | 36.6 | 0.57 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| NR n5 | | 0.53 | 67.25 | 0.56 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE B66 | Rear 10mm | 0.61 | 40.11 | 0.64 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| NR n5 | | 0.53 | 67.25 | 0.56 | 0.01 | Not required |
| BT | | 0.03 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B2 | Rear 15mm | 0.69 | 29.15 | 1.18 | 0.04 | Not required |
| WLAN 5G | | 0.49 | | | | |
| NR n5 | | 0.53 | 76.28 | 1.02 | 0.01 | Not required |
| WLAN 5G | | 0.49 | | | | |
| LTE B66 | Rear 15mm | 0.57 | 48.28 | 1.06 | 0.02 | Not required |
| WLAN 5G | | 0.49 | | | | |
| NR n5 | | 0.53 | 76.28 | 1.02 | 0.01 | Not required |
| WLAN 5G | | 0.49 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B2 | Rear 15mm | 0.69 | 28.05 | 0.72 | 0.02 | Not required |
| BT | | 0.03 | | | | |
| NR n5 | | 0.53 | 67.25 | 0.56 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE B66 | Rear 15mm | 0.57 | 42.99 | 0.6 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| NR n5 | | 0.53 | 67.25 | 0.56 | 0.01 | Not required |
| BT | | 0.03 | | | | |

| Test Position / SAR 1g(W/kg) | | n66 (ANT1) | n66 (ANT5) | LTE B2 (ANT1) | LTE B2 (ANT5) | LTE B5 (ANT1) | LTE B13 (ANT1) | ENDC 2A n66A (ANT1+5) | 2A n66A (ANT5+1) | 5A n66A (ANT1+5) | 13A n66A (ANT1+5) | ENDC MAX. SAR 1g |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Head | Left Cheek | 0.22 | 0.31 | 0.17 | 0.39 | 0.41 | 0.34 | 0.48 | 0.61 | 0.72 | 0.65 | 0.72 |
| | Left Tilt | 0.16 | 0.44 | 0.17 | 0.53 | 0.27 | 0.21 | 0.62 | 0.69 | 0.72 | 0.66 | 0.72 |
| | Right Cheek | 0.31 | 0.39 | 0.13 | 0.54 | 0.40 | 0.36 | 0.52 | 0.85 | 0.80 | 0.75 | 0.85 |
| | Right Tilt | 0.16 | 0.64 | 0.13 | 0.75 | 0.29 | 0.18 | 0.77 | 0.91 | 0.93 | 0.82 | 0.93 |
| Hotspot | Front 10mm | 0.16 | 0.23 | 0.22 | 0.31 | 0.39 | 0.33 | 0.44 | 0.47 | 0.62 | 0.56 | 0.62 |
| | Rear 10mm | 0.42 | 0.44 | 0.38 | 0.54 | 0.51 | 0.47 | 0.82 | 0.96 | 0.95 | 0.91 | 0.96 |
| | Left 10mm | 0.08 | 0.11 | 0.08 | 0.07 | 0.35 | 0.34 | 0.19 | 0.15 | 0.46 | 0.45 | 0.46 |
| | Right 10mm | 0.06 | | 0.05 | | 0.09 | 0.09 | 0.05 | 0.06 | 0.09 | 0.09 | 0.09 |
| | Bottom 10mm | 0.65 | | 0.58 | | 0.09 | 0.07 | 0.58 | 0.65 | 0.09 | 0.07 | 0.65 |
| | Top 10mm | | 0.69 | | 0.68 | | | 0.69 | 0.98 | 0.69 | 0.69 | 0.69 |
| Body worn | Front 15mm | 0.16 | 0.38 | 0.22 | 0.61 | 0.39 | 0.33 | 0.60 | 0.77 | 0.77 | 0.71 | 0.77 |
| | Rear 15mm | 0.42 | 0.60 | 0.38 | 0.69 | 0.51 | 0.47 | 0.98 | 1.11 | 1.11 | 1.07 | 1.11 |

| Test Position / SAR 1g(W/kg) | | 1 WWAN | 2 WLAN2.4G | 3 WLAN5G | 4 BT |
|---|---|---|---|---|---|
| Head | Left Cheek | 0.72 | 0.47 | 0.66 | 0.00 |
| | Left Tilt | 0.72 | 0.64 | 0.68 | 0.00 |
| | Right Cheek | 0.85 | 0.26 | 0.22 | 0.00 |
| | Right Tilt | 0.93 | 0.33 | 0.39 | 0.00 |
| Hotspot | Front 10mm | 0.62 | 0.22 | 0.10 | 0.00 |
| | Rear 10mm | 0.96 | 0.33 | 0.76 | 0.03 |
| | Left 10mm | 0.46 | | | |
| | Right 10mm | 0.09 | 0.12 | 0.51 | 0.00 |
| | Bottom 10mm | 0.65 | | | |
| | Top 10mm | 0.69 | 0.31 | 0.60 | 0.00 |
| Body worn | Front 15mm | 0.77 | 0.10 | 0.08 | 0.00 |
| | Rear 15mm | 1.11 | 0.16 | 0.49 | 0.03 |

| Test Position / SAR 1g(W/kg) | | Simultaneous transmission 1+2 | 1+3+4 |
|---|---|---|---|
| Head | Left Cheek | 1.19 | 1.38 |
| | Left Tilt | 1.36 | 1.40 |
| | Right Cheek | 1.11 | 1.07 |
| | Right Tilt | 1.26 | 1.32 |
| Hotspot | Front 10mm | 0.84 | 0.72 |
| | Rear 10mm | 1.29 | 1.75 |
| | Left 10mm | 0.46 | 0.46 |
| | Right 10mm | 0.21 | 0.60 |
| | Bottom 10mm | 0.65 | 0.65 |
| | Top 10mm | 1.00 | 1.29 |
| Body worn | Front 15mm | 0.87 | 0.85 |
| | Rear 15mm | 1.27 | 1.63 |

| Position | WWAN (W/kg) | | WLAN5G (W/kg) | BT (W/kg) | Sum (W/kg) | SPLSR |
|---|---|---|---|---|---|---|
| Rear (10mm) | DC_2A_n66A | 0.82 | 0.76 | 0.03 | 1.61 | Yes |
| | DC_2A_n66A | 0.96 | 0.76 | 0.03 | 1.75 | Yes |
| | DC_5A_n66A | 0.95 | 0.76 | 0.03 | 1.74 | Yes |
| | DC_13A_n66A | 0.91 | 0.76 | 0.03 | 1.70 | Yes |
| Rear (15mm) | DC_2A_n66A | 1.11 | 0.49 | 0.03 | 1.63 | Yes |
| | DC_5A_n66A | 1.11 | 0.49 | 0.03 | 1.63 | Yes |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B2 | Rear 10mm | 0.38 | 156.18 | 1.14 | 0.01 | Not required |
| WLAN 5G | | 0.76 | | | | |
| NR n66 | | 0.44 | 44.69 | 1.2 | 0.03 | Not required |
| WLAN 5G | | 0.76 | | | | |
| LTE B2 | Rear 10mm | 0.54 | 51.37 | 1.3 | 0.03 | Not required |
| WLAN 5G | | 0.76 | | | | |
| NR n66 | | 0.42 | 153.06 | 1.18 | 0.01 | Not required |
| WLAN 5G | | 0.76 | | | | |
| LTE B5 | Rear 10mm | 0.51 | 143.1 | 1.27 | 0.01 | Not required |
| WLAN 5G | | 0.76 | | | | |
| NR n66 | | 0.44 | 44.69 | 1.2 | 0.03 | Not required |
| WLAN 5G | | 0.76 | | | | |
| LTE B13 | Rear 10mm | 0.47 | 144.18 | 1.23 | 0.01 | Not required |
| WLAN 5G | | 0.76 | | | | |
| NR n66 | | 0.44 | 44.69 | 1.2 | 0.03 | Not required |
| WLAN 5G | | 0.76 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B2 | Rear 10mm | 0.38 | 155.72 | 0.41 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR n66 | | 0.44 | 32.52 | 0.47 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE B2 | Rear 10mm | 0.54 | 36.6 | 0.57 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| NR n66 | | 0.42 | 154 | 0.45 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| LTE B5 | Rear 10mm | 0.51 | 142.16 | 0.54 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR n66 | | 0.44 | 32.52 | 0.47 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE B13 | Rear 10mm | 0.47 | 142.92 | 0.5 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR n66 | | 0.44 | 32.52 | 0.47 | 0.01 | Not required |
| BT | | 0.03 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B2 | Rear 15mm | 0.69 | 29.15 | 1.18 | 0.04 | Not required |
| WLAN 5G | | 0.49 | | | | |
| NR n66 | | 0.42 | 163.21 | 0.91 | 0.01 | Not required |
| WLAN 5G | | 0.49 | | | | |
| LTE B5 | Rear 15mm | 0.51 | 151.67 | 1 | 0.01 | Not required |
| WLAN 5G | | 0.49 | | | | |
| NR n66 | | 0.60 | 48.28 | 1.09 | 0.02 | Not required |
| WLAN 5G | | 0.49 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B2 | Rear 15mm | 0.69 | 28.05 | 0.72 | 0.02 | Not required |
| BT | | 0.03 | | | | |
| NR n66 | | 0.42 | 154 | 0.45 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| LTE B5 | Rear 15mm | 0.51 | 142.16 | 0.54 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR n66 | | 0.60 | 42.99 | 0.63 | 0.01 | Not required |
| BT | | 0.03 | | | | |

| Test Position | SAR 1g(W/kg) | ENDC n77-H PC2 (ANT4) | ENDC LTE B2 (ANT1) | ENDC LTE B5 (ANT1) | ENDC LTE B13 (ANT1) | ENDC LTE B66 (ANT1) | ENDC 2A n77A (ANT1+4) | ENDC 5A n77A (ANT1+4) | ENDC 13A n77A (ANT1+4) | ENDC 66A n77A (ANT1+4) | ENDC MAX. SAR 1g |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Head | Left Cheek | 0.23 | 0.17 | 0.41 | 0.34 | 0.19 | 0.40 | 0.64 | 0.57 | 0.42 | 0.64 |
| | Left Tilt | 0.32 | 0.17 | 0.27 | 0.21 | 0.19 | 0.49 | 0.59 | 0.53 | 0.51 | 0.59 |
| | Right Cheek | 0.75 | 0.13 | 0.40 | 0.36 | 0.24 | 0.88 | 1.15 | 1.11 | 0.99 | 1.15 |
| | Right Tilt | 0.66 | 0.13 | 0.29 | 0.18 | 0.14 | 0.79 | 0.95 | 0.84 | 0.80 | 0.95 |
| Hotspot | Front 10mm | 0.27 | 0.22 | 0.39 | 0.33 | 0.20 | 0.49 | 0.66 | 0.60 | 0.47 | 0.66 |
| | Rear 10mm | 0.48 | 0.28 | 0.51 | 0.47 | 0.46 | 0.86 | 0.99 | 0.95 | 0.94 | 0.99 |
| | Left 10mm | 0.59 | 0.08 | 0.35 | 0.34 | 0.04 | 0.67 | 0.94 | 0.93 | 0.63 | 0.94 |
| | Right 10mm | | 0.05 | 0.09 | 0.09 | 0.04 | 0.05 | 0.09 | 0.09 | 0.04 | 0.09 |
| | Bottom 10mm | | 0.58 | 0.09 | 0.07 | 0.62 | 0.58 | 0.09 | 0.07 | 0.62 | 0.62 |
| | Top 10mm | 0.21 | | | | | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 |
| Body worn | Front 15mm | 0.56 | 0.22 | 0.39 | 0.33 | 0.20 | 0.78 | 0.95 | 0.89 | 0.76 | 0.95 |
| | Rear 15mm | 0.77 | 0.38 | 0.51 | 0.47 | 0.46 | 1.15 | 1.28 | 1.24 | 1.23 | 1.28 |

| Test Position | SAR 1g(W/kg) | 1 WWAN | 2 WLAN2.4G | 3 WLAN5G | 4 BT |
|---|---|---|---|---|---|
| Head | Left Cheek | 0.64 | 0.47 | 0.66 | 0.00 |
| | Left Tilt | 0.59 | 0.64 | 0.68 | 0.00 |
| | Right Cheek | 1.15 | 0.26 | 0.22 | 0.00 |
| | Right Tilt | 0.95 | 0.33 | 0.39 | 0.00 |
| Hotspot | Front 10mm | 0.66 | 0.22 | 0.10 | 0.00 |
| | Rear 10mm | 0.99 | 0.33 | 0.76 | 0.03 |
| | Left 10mm | 0.94 | | | |
| | Right 10mm | 0.09 | 0.12 | 0.51 | 0.00 |
| | Bottom 10mm | 0.62 | | | |
| | Top 10mm | 0.21 | 0.31 | 0.60 | 0.00 |
| Body worn | Front 15mm | 0.95 | 0.10 | 0.08 | 0.00 |
| | Rear 15mm | 1.28 | 0.16 | 0.49 | 0.03 |

| Test Position | SAR 1g(W/kg) | simultaneous transmission 1+2 | simultaneous transmission 1+3+4 |
|---|---|---|---|
| Head | Left Cheek | 1.11 | 1.30 |
| | Left Tilt | 1.23 | 1.27 |
| | Right Cheek | 1.41 | 1.37 |
| | Right Tilt | 1.28 | 1.34 |
| Hotspot | Front 10mm | 0.88 | 0.76 |
| | Rear 10mm | 1.32 | 1.78 |
| | Left 10mm | 0.94 | 0.94 |
| | Right 10mm | 0.21 | 0.60 |
| | Bottom 10mm | 0.62 | 0.62 |
| | Top 10mm | 0.52 | 0.81 |
| Body worn | Front 15mm | 1.05 | 1.03 |
| | Rear 15mm | 1.44 | 1.80 |

| Position | WWAN (W/kg) | | WLAN5G (W/kg) | BT (W/kg) | Sum (W/kg) | SPLSR |
|---|---|---|---|---|---|---|
| Rear (10mm) | DC_2A_n77A | 0.86 | 0.76 | 0.03 | 1.65 | Yes |
| | DC_5A_n77A | 0.99 | 0.76 | 0.03 | 1.78 | Yes |
| | DC_13A_n77A | 0.95 | 0.76 | 0.03 | 1.74 | Yes |
| | DC_66A_n77A | 0.94 | 0.76 | 0.03 | 1.73 | Yes |
| Rear (15mm) | DC_2A_n77A | 1.15 | 0.49 | 0.03 | 1.67 | Yes |
| | DC_5A_n77A | 1.28 | 0.49 | 0.03 | 1.80 | Yes |
| | DC_13A_n77A | 1.24 | 0.49 | 0.03 | 1.76 | Yes |
| | DC_66A_n77A | 1.23 | 0.49 | 0.03 | 1.75 | Yes |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE_B2 | Rear 10mm | 0.38 | 156.18 | 1.14 | 0.01 | Not required |
| WLAN_5G | | 0.76 | | | | |
| NR_n77 | | 0.48 | 74.23 | 1.24 | 0.02 | Not required |
| WLAN_5G | | 0.76 | | | | |
| LTE_B5 | Rear 10mm | 0.51 | 143.1 | 1.27 | 0.01 | Not required |
| WLAN_5G | | 0.76 | | | | |
| NR_n77 | | 0.48 | 74.23 | 1.24 | 0.02 | Not required |
| WLAN_5G | | 0.76 | | | | |
| LTE_B13 | Rear 10mm | 0.47 | 144.18 | 1.23 | 0.01 | Not required |
| WLAN_5G | | 0.76 | | | | |
| NR_n77 | | 0.48 | 74.23 | 1.24 | 0.02 | Not required |
| WLAN_5G | | 0.76 | | | | |
| LTE_B66 | Rear 10mm | 0.46 | 143.18 | 1.22 | 0.01 | Not required |
| WLAN_5G | | 0.76 | | | | |
| NR_n77 | | 0.48 | 74.23 | 1.24 | 0.02 | Not required |
| WLAN_5G | | 0.76 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE_B2 | Rear 10mm | 0.38 | 155.72 | 0.41 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR_n77 | | 0.48 | 61.22 | 0.51 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE_B5 | Rear 10mm | 0.51 | 142.16 | 0.54 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR_n77 | | 0.48 | 61.22 | 0.51 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE_B13 | Rear 10mm | 0.47 | 142.92 | 0.5 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR_n77 | | 0.48 | 61.22 | 0.51 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE_B66 | Rear 10mm | 0.46 | 144.94 | 0.49 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR_n77 | | 0.48 | 61.22 | 0.51 | 0.01 | Not required |
| BT | | 0.03 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE_B2 | Rear 15mm | 0.38 | 165.17 | 0.87 | 0.00 | Not required |
| WLAN_5G | | 0.49 | | | | |
| NR_n77 | | 0.77 | 46.58 | 1.26 | 0.03 | Not required |
| WLAN_5G | | 0.49 | | | | |
| LTE_B5 | Rear 15mm | 0.51 | 151.67 | 1 | 0.01 | Not required |
| WLAN_5G | | 0.49 | | | | |
| NR_n77 | | 0.77 | 46.58 | 1.26 | 0.03 | Not required |
| WLAN_5G | | 0.49 | | | | |
| LTE_B13 | Rear 15mm | 0.47 | 152.47 | 0.96 | 0.01 | Not required |
| WLAN_5G | | 0.49 | | | | |
| NR_n77 | | 0.77 | 46.58 | 1.26 | 0.03 | Not required |
| WLAN_5G | | 0.49 | | | | |
| LTE_B66 | Rear 15mm | 0.46 | 153.96 | 0.95 | 0.01 | Not required |
| WLAN_5G | | 0.49 | | | | |
| NR_n77 | | 0.77 | 46.58 | 1.26 | 0.03 | Not required |
| WLAN_5G | | 0.49 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE_B2 | Rear 15mm | 0.38 | 155.72 | 0.41 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR_n77 | | 0.77 | 37.19 | 0.8 | 0.02 | Not required |
| BT | | 0.03 | | | | |
| LTE_B5 | Rear 15mm | 0.51 | 142.16 | 0.54 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR_n77 | | 0.77 | 37.19 | 0.8 | 0.02 | Not required |
| BT | | 0.03 | | | | |
| LTE_B13 | Rear 15mm | 0.47 | 142.92 | 0.5 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR_n77 | | 0.77 | 37.19 | 0.8 | 0.02 | Not required |
| BT | | 0.03 | | | | |
| LTE_B66 | Rear 15mm | 0.46 | 144.94 | 0.49 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR_n77 | | 0.77 | 37.19 | 0.8 | 0.02 | Not required |
| BT | | 0.03 | | | | |

| Test Position / SAR 1g(W/kg) | | ENDC n77-L PC2 (ANT4) | ENDC LTE B2 (ANT1) | ENDC LTE B5 (ANT1) | ENDC LTE B13 (ANT1) | ENDC LTE B66 (ANT1) | ENDC 2A n77A (ANT1+4) | ENDC 5A n77A (ANT1+4) | ENDC 13A n77A (ANT1+4) | ENDC 66A n77A (ANT1+4) | ENDC MAX. SAR 1g |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Head | Left Cheek | 0.22 | 0.17 | 0.41 | 0.34 | 0.19 | 0.39 | 0.63 | 0.56 | 0.41 | 0.63 |
| | Left Tilt | 0.17 | 0.17 | 0.27 | 0.21 | 0.19 | 0.34 | 0.44 | 0.38 | 0.36 | 0.44 |
| | Right Cheek | 0.63 | 0.13 | 0.40 | 0.36 | 0.24 | 0.76 | 1.03 | 0.99 | 0.87 | 1.03 |
| | Right Tilt | 0.46 | 0.13 | 0.29 | 0.18 | 0.14 | 0.59 | 0.75 | 0.64 | 0.60 | 0.75 |
| Hotspot | Front 10mm | 0.29 | 0.22 | 0.39 | 0.33 | 0.20 | 0.51 | 0.68 | 0.62 | 0.49 | 0.68 |
| | Rear 10mm | 0.53 | 0.38 | 0.51 | 0.47 | 0.46 | 0.91 | 1.04 | 1.00 | 0.99 | 1.04 |
| | Left 10mm | 0.66 | 0.08 | 0.35 | 0.34 | 0.04 | 0.74 | 1.01 | 1.00 | 0.70 | 1.01 |
| | Right 10mm | | 0.05 | 0.09 | 0.09 | 0.04 | 0.05 | 0.09 | 0.09 | 0.04 | 0.09 |
| | Bottom 10mm | | 0.58 | 0.09 | 0.07 | 0.62 | 0.58 | 0.09 | 0.07 | 0.62 | 0.62 |
| | Top 10mm | 0.11 | | | | | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| Body-worn | Front 15mm | 0.40 | 0.22 | 0.39 | 0.33 | 0.20 | 0.62 | 0.79 | 0.73 | 0.60 | 0.79 |
| | Rear 15mm | 0.55 | 0.38 | 0.51 | 0.47 | 0.46 | 0.93 | 1.06 | 1.02 | 1.01 | 1.06 |

| Test Position / SAR 1g(W/kg) | | 1 WWAN | 2 WLAN2.4G | 3 WLAN5G | 4 BT |
|---|---|---|---|---|---|
| Head | Left Cheek | 0.63 | 0.47 | 0.66 | 0.00 |
| | Left Tilt | 0.44 | 0.64 | 0.68 | 0.00 |
| | Right Cheek | 1.03 | 0.26 | 0.22 | 0.00 |
| | Right Tilt | 0.75 | 0.33 | 0.39 | 0.00 |
| Hotspot | Front 10mm | 0.68 | 0.22 | 0.10 | 0.00 |
| | Rear 10mm | 1.04 | 0.33 | 0.76 | 0.03 |
| | Left 10mm | 1.01 | | | |
| | Right 10mm | 0.09 | 0.12 | 0.51 | 0.00 |
| | Bottom 10mm | 0.62 | | | |
| | Top 10mm | 0.11 | 0.31 | 0.60 | 0.00 |
| Body-worn | Front 15mm | 0.79 | 0.10 | 0.08 | 0.00 |
| | Rear 15mm | 1.06 | 0.16 | 0.49 | 0.03 |

| Test Position / SAR 1g(W/kg) | | simultaneous transmission 1+2 | simultaneous transmission 1+3+4 |
|---|---|---|---|
| Head | Left Cheek | 1.10 | 1.29 |
| | Left Tilt | 1.08 | 1.12 |
| | Right Cheek | 1.29 | 1.25 |
| | Right Tilt | 1.08 | 1.14 |
| Hotspot | Front 10mm | 0.90 | 0.78 |
| | Rear 10mm | 1.37 | 1.83 |
| | Left 10mm | 1.01 | 1.01 |
| | Right 10mm | 0.21 | 0.60 |
| | Bottom 10mm | 0.62 | 0.62 |
| | Top 10mm | 0.42 | 0.71 |
| Body-worn | Front 15mm | 0.89 | 0.87 |
| | Rear 15mm | 1.22 | 1.58 |

| Position | WWAN (W/kg) | | WLAN5G (W/kg) | BT (W/kg) | Sum (W/kg) | SPLSR |
|---|---|---|---|---|---|---|
| Rear (10mm) | DC_2A_n77A | 1.04 | 0.76 | 0.03 | 1.83 | Yes |
| | DC_5A_n77A | 1.00 | 0.76 | 0.03 | 1.79 | Yes |
| | DC_13A_n77A | 0.99 | 0.76 | 0.03 | 1.78 | Yes |
| | DC_66A_n77A | 1.04 | 0.76 | 0.03 | 1.83 | Yes |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B2 | Rear 10mm | 0.38 | 156.18 | 1.14 | 0.01 | Not required |
| WLAN 5G | | 0.76 | | | | |
| NR n77 | | 0.53 | 68.22 | 1.29 | 0.02 | Not required |
| WLAN 5G | | 0.76 | | | | |
| LTE B5 | Rear 10mm | 0.51 | 143.1 | 1.27 | 0.01 | Not required |
| WLAN 5G | | 0.76 | | | | |
| NR n77 | | 0.53 | 68.22 | 1.29 | 0.02 | Not required |
| WLAN 5G | | 0.76 | | | | |
| LTE B13 | Rear 10mm | 0.47 | 144.18 | 1.23 | 0.01 | Not required |
| WLAN 5G | | 0.76 | | | | |
| NR n77 | | 0.53 | 68.22 | 1.29 | 0.02 | Not required |
| WLAN 5G | | 0.76 | | | | |
| LTE B66 | Rear 10mm | 0.46 | 143.18 | 1.22 | 0.01 | Not required |
| WLAN 5G | | 0.76 | | | | |
| NR n77 | | 0.53 | 68.22 | 1.29 | 0.02 | Not required |
| WLAN 5G | | 0.76 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B2 | Rear 10mm | 0.38 | 155.72 | 0.41 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR n77 | | 0.53 | 56.29 | 0.56 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE B5 | Rear 10mm | 0.51 | 142.16 | 0.54 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR n77 | | 0.53 | 56.29 | 0.56 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE B13 | Rear 10mm | 0.47 | 142.92 | 0.5 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR n77 | | 0.53 | 56.29 | 0.56 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE B66 | Rear 10mm | 0.46 | 144.94 | 0.49 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR n77 | | 0.53 | 56.29 | 0.56 | 0.01 | Not required |
| BT | | 0.03 | | | | |

| Test Position | SAR 1g(W/kg) | ENDC | | | | | | | | | ENDC MAX. SAR 1g |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | n77-H PC3 (ANT4) | LTE B2 (ANT1) | LTE B5 (ANT1) | LTE B13 (ANT1) | LTE B66 (ANT1) | 2A_n77A (ANT1+4) | 5A_n77A (ANT1+4) | 13A_n77A (ANT1+4) | 66A_n77A (ANT1+4) | |
| Head | Left Cheek | 0.18 | 0.17 | 0.41 | 0.34 | 0.19 | 0.35 | 0.59 | 0.52 | 0.37 | 0.59 |
| | Left Tilt | 0.23 | 0.17 | 0.27 | 0.21 | 0.19 | 0.40 | 0.50 | 0.44 | 0.42 | 0.50 |
| | Right Cheek | 0.73 | 0.13 | 0.40 | 0.36 | 0.24 | 0.86 | 1.13 | 1.09 | 0.97 | 1.13 |
| | Right Tilt | 0.67 | 0.13 | 0.29 | 0.18 | 0.14 | 0.80 | 0.96 | 0.85 | 0.81 | 0.96 |
| Hotspot | Front 10mm | 0.34 | 0.22 | 0.39 | 0.33 | 0.20 | 0.56 | 0.73 | 0.67 | 0.54 | 0.73 |
| | Rear 10mm | 0.60 | 0.38 | 0.51 | 0.47 | 0.46 | 0.98 | 1.11 | 1.07 | 1.06 | 1.11 |
| | Left 10mm | 0.49 | 0.08 | 0.35 | 0.34 | 0.04 | 0.57 | 0.84 | 0.83 | 0.53 | 0.84 |
| | Right 10mm | | 0.05 | 0.09 | 0.09 | 0.04 | 0.05 | 0.09 | 0.09 | 0.04 | 0.09 |
| | Bottom 10mm | | 0.58 | 0.09 | 0.07 | 0.62 | 0.58 | 0.09 | 0.07 | 0.62 | 0.62 |
| | Top 10mm | 0.25 | | | | | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| Body worn | Front 15mm | 0.47 | 0.22 | 0.39 | 0.33 | 0.20 | 0.69 | 0.86 | 0.80 | 0.67 | 0.86 |
| | Rear 15mm | 0.67 | 0.38 | 0.51 | 0.47 | 0.46 | 1.05 | 1.18 | 1.14 | 1.13 | 1.18 |

| Test Position | SAR 1g(W/kg) | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| | | WWAN | WLAN2.4G | WLAN5G | BT |
| Head | Left Cheek | 0.59 | 0.47 | 0.66 | 0.00 |
| | Left Tilt | 0.50 | 0.64 | 0.68 | 0.00 |
| | Right Cheek | 1.13 | 0.26 | 0.22 | 0.00 |
| | Right Tilt | 0.96 | 0.33 | 0.39 | 0.00 |
| Hotspot | Front 10mm | 0.73 | 0.22 | 0.10 | 0.00 |
| | Rear 10mm | 1.11 | 0.33 | 0.76 | 0.03 |
| | Left 10mm | 0.84 | - | - | - |
| | Right 10mm | 0.09 | 0.12 | 0.51 | 0.00 |
| | Bottom 10mm | 0.62 | - | - | - |
| | Top 10mm | 0.25 | 0.31 | 0.60 | 0.00 |
| Body worn | Front 15mm | 0.86 | 0.10 | 0.08 | 0.00 |
| | Rear 15mm | 1.18 | 0.16 | 0.49 | 0.03 |

| Test Position | SAR 1g(W/kg) | simultaneous transmission | |
|---|---|---|---|
| | | 1+2 | 1+3+4 |
| Head | Left Cheek | 1.06 | 1.25 |
| | Left Tilt | 1.14 | 1.18 |
| | Right Cheek | 1.39 | 1.35 |
| | Right Tilt | 1.29 | 1.35 |
| Hotspot | Front 10mm | 0.95 | 0.83 |
| | Rear 10mm | 1.44 | 1.90 |
| | Left 10mm | 0.84 | 0.84 |
| | Right 10mm | 0.21 | 0.60 |
| | Bottom 10mm | 0.62 | 0.62 |
| | Top 10mm | 0.56 | 0.85 |
| Body worn | Front 15mm | 0.96 | 0.94 |
| | Rear 15mm | 1.34 | 1.70 |

| Position | WWAN (W/kg) | | WLAN5G (W/kg) | BT (W/kg) | Sum (W/kg) | SPLSR |
|---|---|---|---|---|---|---|
| Rear (10mm) | DC_2A_n77A | 0.98 | 0.76 | 0.03 | 1.77 | Yes |
| | DC_5A_n77A | 1.11 | 0.76 | 0.03 | 1.90 | Yes |
| | DC_13A_n77A | 1.07 | 0.76 | 0.03 | 1.86 | Yes |
| | DC_66A_n77A | 1.06 | 0.76 | 0.03 | 1.85 | Yes |
| Rear (15mm) | DC_5A_n77A | 1.18 | 0.49 | 0.03 | 1.70 | Yes |
| | DC_13A_n77A | 1.14 | 0.49 | 0.03 | 1.66 | Yes |
| | DC_66A_n77A | 1.13 | 0.49 | 0.03 | 1.65 | Yes |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE_B2 | Rear_10mm | 0.38 | 156.18 | 1.14 | 0.01 | Not required |
| WLAN_5G | | 0.76 | | | | |
| NR_n77 | | 0.60 | 67.51 | 1.36 | 0.02 | Not required |
| WLAN_5G | | 0.76 | | | | |
| LTE_B5 | Rear_10mm | 0.51 | 143.1 | 1.27 | 0.01 | Not required |
| WLAN_5G | | 0.76 | | | | |
| NR_n77 | | 0.60 | 67.51 | 1.36 | 0.02 | Not required |
| WLAN_5G | | 0.76 | | | | |
| LTE_B13 | Rear_10mm | 0.47 | 144.18 | 1.23 | 0.01 | Not required |
| WLAN_5G | | 0.76 | | | | |
| NR_n77 | | 0.60 | 67.51 | 1.36 | 0.02 | Not required |
| WLAN_5G | | 0.76 | | | | |
| LTE_B66 | Rear_10mm | 0.46 | 143.18 | 1.22 | 0.01 | Not required |
| WLAN_5G | | 0.76 | | | | |
| NR_n77 | | 0.60 | 67.51 | 1.36 | 0.02 | Not required |
| WLAN_5G | | 0.76 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE_B2 | Rear_10mm | 0.38 | 155.72 | 0.41 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR_n77 | | 0.60 | 54.27 | 0.63 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE_B5 | Rear_10mm | 0.51 | 142.16 | 0.54 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR_n77 | | 0.60 | 54.27 | 0.63 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE_B13 | Rear_10mm | 0.47 | 142.92 | 0.5 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR_n77 | | 0.60 | 54.27 | 0.63 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE_B66 | Rear_10mm | 0.46 | 144.94 | 0.49 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR_n77 | | 0.60 | 54.27 | 0.63 | 0.01 | Not required |
| BT | | 0.03 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE_B5 | Rear_15mm | 0.51 | 151.67 | 1 | 0.01 | Not required |
| WLAN_5G | | 0.49 | | | | |
| NR_n77 | | 0.67 | 52.42 | 1.16 | 0.02 | Not required |
| WLAN_5G | | 0.49 | | | | |
| LTE_B13 | Rear_15mm | 0.47 | 152.47 | 0.96 | 0.01 | Not required |
| WLAN_5G | | 0.49 | | | | |
| NR_n77 | | 0.67 | 52.42 | 1.16 | 0.02 | Not required |
| WLAN_5G | | 0.49 | | | | |
| LTE_B66 | Rear_15mm | 0.46 | 153.96 | 0.95 | 0.01 | Not required |
| WLAN_5G | | 0.49 | | | | |
| NR_n77 | | 0.67 | 52.42 | 1.16 | 0.02 | Not required |
| WLAN_5G | | 0.49 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE_B5 | Rear_15mm | 0.51 | 142.16 | 0.54 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR_n77 | | 0.67 | 42.84 | 0.7 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE_B13 | Rear_15mm | 0.47 | 142.92 | 0.5 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR_n77 | | 0.67 | 42.84 | 0.7 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE_B66 | Rear_15mm | 0.46 | 144.94 | 0.49 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR_n77 | | 0.67 | 42.84 | 0.7 | 0.01 | Not required |
| BT | | 0.03 | | | | |

| Test Position / SAR 1g(W/kg) | | n77-1 PC3 (ANT4) | LTE B2 (ANT1) | LTE B5 (ANT1) | LTE B13 (ANT1) | ENDC LTE B66 (ANT1) | ENDC 2A_n77A (ANT1+4) | ENDC 5A_n77A (ANT1+4) | ENDC 13A_n77A (ANT1+4) | ENDC 66A_n77A (ANT1+4) | ENDC MAX. SAR 1g |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Head | Left Cheek | 0.17 | 0.17 | 0.41 | 0.34 | 0.19 | 0.34 | 0.58 | 0.51 | 0.26 | 0.58 |
| | Left Tilt | 0.16 | 0.17 | 0.27 | 0.21 | 0.19 | 0.33 | 0.43 | 0.37 | 0.35 | 0.43 |
| | Right Cheek | 0.85 | 0.13 | 0.40 | 0.36 | 0.24 | 0.68 | 0.95 | 0.91 | 0.79 | 0.95 |
| | Right Tilt | 0.40 | 0.13 | 0.29 | 0.18 | 0.14 | 0.53 | 0.69 | 0.58 | 0.54 | 0.69 |
| Hotspot | Front 10mm | 0.29 | 0.22 | 0.39 | 0.33 | 0.20 | 0.51 | 0.68 | 0.62 | 0.49 | 0.68 |
| | Rear 10mm | 0.70 | 0.38 | 0.51 | 0.47 | 0.46 | 1.08 | 1.21 | 1.17 | 1.16 | 1.21 |
| | Left 10mm | 0.69 | 0.08 | 0.35 | 0.34 | 0.04 | 0.77 | 1.04 | 1.03 | 0.73 | 1.04 |
| | Right 10mm | | 0.05 | 0.09 | 0.09 | 0.04 | 0.05 | 0.09 | 0.09 | 0.04 | 0.09 |
| | Bottom 10mm | | 0.58 | 0.09 | 0.07 | 0.62 | 0.58 | 0.09 | 0.07 | 0.62 | 0.62 |
| | Top 10mm | 0.10 | | | | | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| Body worn | Front 15mm | 0.29 | 0.22 | 0.39 | 0.33 | 0.20 | 0.51 | 0.68 | 0.62 | 0.49 | 0.68 |
| | Rear 15mm | 0.49 | 0.38 | 0.51 | 0.47 | 0.46 | 0.87 | 1.00 | 0.96 | 0.95 | 1.00 |

| Test Position / SAR 1g(W/kg) | | 1 WWAN | 2 WLAN2.4G | 3 WLAN5G | 4 BT |
|---|---|---|---|---|---|
| Head | Left Cheek | 0.58 | 0.47 | 0.66 | 0.00 |
| | Left Tilt | 0.43 | 0.64 | 0.68 | 0.00 |
| | Right Cheek | 0.95 | 0.26 | 0.22 | 0.00 |
| | Right Tilt | 0.69 | 0.33 | 0.39 | 0.00 |
| Hotspot | Front 10mm | 0.68 | 0.22 | 0.10 | 0.00 |
| | Rear 10mm | 1.21 | 0.33 | 0.76 | 0.03 |
| | Left 10mm | 1.04 | | | |
| | Right 10mm | 0.09 | 0.12 | 0.51 | 0.00 |
| | Bottom 10mm | 0.62 | | | |
| | Top 10mm | 0.10 | 0.31 | 0.60 | 0.00 |
| Body worn | Front 15mm | 0.68 | 0.10 | 0.08 | 0.00 |
| | Rear 15mm | 1.00 | 0.16 | 0.49 | 0.03 |

| Test Position / SAR 1g(W/kg) | | simultaneous transmission 1+2 | simultaneous transmission 1+3+4 |
|---|---|---|---|
| Head | Left Cheek | 1.05 | 1.24 |
| | Left Tilt | 1.07 | 1.11 |
| | Right Cheek | 1.21 | 1.17 |
| | Right Tilt | 1.02 | 1.08 |
| Hotspot | Front 10mm | 0.90 | 0.78 |
| | Rear 10mm | 1.54 | 2.00 |
| | Left 10mm | 1.04 | 1.04 |
| | Right 10mm | 0.21 | 0.60 |
| | Bottom 10mm | 0.62 | 0.62 |
| | Top 10mm | 0.41 | 0.70 |
| Body worn | Front 15mm | 0.78 | 0.76 |
| | Rear 15mm | 1.16 | 1.52 |

| Position | WWAN (W/kg) | | WLAN5G (W/kg) | BT (W/kg) | Sum (W/kg) | SPLSR |
|---|---|---|---|---|---|---|
| Rear (10mm) | DC_2A_n77A | 1.08 | 0.76 | 0.03 | 1.87 | Yes |
| | DC_5A_n77A | 1.21 | 0.76 | 0.03 | 2.00 | Yes |
| | DC_13A_n77A | 1.17 | 0.76 | 0.03 | 1.96 | Yes |
| | DC_66A_n77A | 1.16 | 0.76 | 0.03 | 1.95 | Yes |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B2 | Rear 10mm | 0.38 | 156.18 | 1.14 | 0.01 | Not required |
| WLAN 5G | | 0.76 | | | | |
| NR n77 | | 0.70 | 68.83 | 1.46 | 0.03 | Not required |
| WLAN 5G | | 0.76 | | | | |
| LTE B5 | Rear 10mm | 0.51 | 143.1 | 1.27 | 0.01 | Not required |
| WLAN 5G | | 0.76 | | | | |
| NR n77 | | 0.70 | 68.83 | 1.46 | 0.03 | Not required |
| WLAN 5G | | 0.76 | | | | |
| LTE B13 | Rear 10mm | 0.47 | 144.18 | 1.23 | 0.01 | Not required |
| WLAN 5G | | 0.76 | | | | |
| NR n77 | | 0.70 | 68.83 | 1.46 | 0.03 | Not required |
| WLAN 5G | | 0.76 | | | | |
| LTE B66 | Rear 10mm | 0.46 | 143.18 | 1.22 | 0.01 | Not required |
| WLAN 5G | | 0.76 | | | | |
| NR n77 | | 0.70 | 68.83 | 1.46 | 0.03 | Not required |
| WLAN 5G | | 0.76 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B2 | Rear 10mm | 0.38 | 155.72 | 0.41 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR n77 | | 0.70 | 56.63 | 0.73 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE B5 | Rear 10mm | 0.51 | 142.16 | 0.54 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR n77 | | 0.70 | 56.63 | 0.73 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE B13 | Rear 10mm | 0.47 | 142.92 | 0.5 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR n77 | | 0.70 | 56.63 | 0.73 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE B66 | Rear 10mm | 0.46 | 144.94 | 0.49 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| NR n77 | | 0.70 | 56.63 | 0.73 | 0.01 | Not required |
| BT | | 0.03 | | | | |

| Test Position / SAR 1g(W/kg) | | ENDC LTE B2 (ANT1) | ENDC LTE B4 (AN5) | ENDC 5A_n2A (ANT1+5) | ENDC MAX. SAR 1g |
|---|---|---|---|---|---|
| Head | Left Cheek | 0.17 | 0.30 | 0.47 | 0.47 |
| | Left Tilt | 0.17 | 0.36 | 0.53 | 0.53 |
| | Right Cheek | 0.13 | 0.43 | 0.56 | 0.56 |
| | Right Tilt | 0.13 | 0.56 | 0.69 | 0.69 |
| Hotspot | Front 10mm | 0.22 | 0.45 | 0.67 | 0.67 |
| | Rear 10mm | 0.38 | 0.51 | 0.89 | 0.89 |
| | Left 10mm | 0.08 | 0.13 | 0.21 | 0.21 |
| | Right 10mm | 0.05 | | 0.05 | 0.05 |
| | Bottom 10mm | 0.58 | | 0.58 | 0.58 |
| | Top 10mm | | 0.67 | 0.67 | 0.67 |
| Body-worn | Front 15mm | 0.22 | 0.30 | 0.52 | 0.52 |
| | Rear 15mm | 0.38 | 0.43 | 0.81 | 0.81 |

| Test Position / SAR 1g(W/kg) | | 1 WWAN | 2 WLAN2.4G | 3 WLAN5G | 4 BT |
|---|---|---|---|---|---|
| Head | Left Cheek | 0.47 | 0.47 | 0.66 | 0.00 |
| | Left Tilt | 0.53 | 0.64 | 0.68 | 0.00 |
| | Right Cheek | 0.56 | 0.26 | 0.22 | 0.00 |
| | Right Tilt | 0.69 | 0.33 | 0.39 | 0.00 |
| Hotspot | Front 10mm | 0.67 | 0.22 | 0.10 | 0.00 |
| | Rear 10mm | 0.89 | 0.33 | 0.76 | 0.03 |
| | Left 10mm | 0.21 | | | |
| | Right 10mm | 0.05 | 0.12 | 0.51 | 0.00 |
| | Bottom 10mm | 0.58 | | | |
| | Top 10mm | 0.67 | 0.31 | 0.60 | 0.00 |
| Body-worn | Front 15mm | 0.52 | 0.10 | 0.08 | 0.00 |
| | Rear 15mm | 0.81 | 0.16 | 0.49 | 0.03 |

| Test Position / SAR 1g(W/kg) | | simultaneous transmission 1+2 | simultaneous transmission 1+3+4 |
|---|---|---|---|
| Head | Left Cheek | 0.94 | 1.13 |
| | Left Tilt | 1.17 | 1.21 |
| | Right Cheek | 0.82 | 0.78 |
| | Right Tilt | 1.02 | 1.08 |
| Hotspot | Front 10mm | 0.89 | 0.77 |
| | Rear 10mm | 1.22 | 1.68 |
| | Left 10mm | 0.21 | 0.21 |
| | Right 10mm | 0.17 | 0.56 |
| | Bottom 10mm | 0.58 | 0.58 |
| Body-worn | Top 10mm | 0.98 | 1.27 |
| | Front 15mm | 0.62 | 0.59 |
| | Rear 15mm | 0.97 | 1.33 |

| Position | WWAN (W/kg) | | WLAN5G (W/kg) | BT (W/kg) | Sum (W/kg) | SPLSR |
|---|---|---|---|---|---|---|
| Rear | CA_2A_4A | 0.89 | 0.76 | 0.03 | 1.68 | Yes |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B2 | Rear 10mm | 0.38 | 156.18 | 1.14 | 0.01 | Not required |
| WLAN 5G | | 0.76 | | | | |
| LTE B4 | | 0.51 | 45.68 | 1.27 | 0.03 | Not required |
| WLAN 5G | | 0.76 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B2 | Rear 10mm | 0.38 | 155.72 | 0.41 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| LTE B4 | | 0.51 | 36.71 | 0.54 | 0.01 | Not required |
| BT | | 0.03 | | | | |

| Test Position / SAR 1g(W/kg) | | ENDC LTE B2 (ANT5) | ENDC LTE B5 (ANT1) | ENDC LTE B13 (ANT1) | ENDC LTE B66 (ANT1) | ENDC 5A_2A (ANT1+5) | ENDC 13A_2A (ANT1+5) | ENDC 66A_2A (ANT1+5) | ENDC MAX. SAR 1g |
|---|---|---|---|---|---|---|---|---|---|
| Head | Left Cheek | 0.39 | 0.41 | 0.34 | 0.19 | 0.80 | 0.73 | 0.58 | 0.80 |
| | Left Tilt | 0.53 | 0.27 | 0.21 | 0.19 | 0.80 | 0.74 | 0.72 | 0.80 |
| | Right Cheek | 0.54 | 0.40 | 0.36 | 0.24 | 0.94 | 0.90 | 0.78 | 0.94 |
| | Right Tilt | 0.75 | 0.29 | 0.18 | 0.14 | 1.04 | 0.93 | 0.89 | 1.04 |
| Hotspot | Front 10mm | 0.31 | 0.39 | 0.33 | 0.20 | 0.70 | 0.64 | 0.51 | 0.70 |
| | Rear 10mm | 0.54 | 0.51 | 0.47 | 0.46 | 1.05 | 1.01 | 1.01 | 1.05 |
| | Left 10mm | 0.07 | 0.35 | 0.34 | 0.04 | 0.42 | 0.41 | 0.11 | 0.42 |
| | Right 10mm | 0.04 | 0.09 | 0.09 | 0.04 | 0.13 | 0.13 | 0.08 | 0.13 |
| | Bottom 10mm | | 0.09 | 0.07 | 0.62 | 0.09 | 0.07 | 0.62 | 0.62 |
| | Top 10mm | 0.68 | | | | 0.68 | 0.68 | 0.68 | 0.68 |
| Body-worn | Front 15mm | 0.61 | 0.39 | 0.33 | 0.20 | 1.00 | 0.94 | 0.81 | 1.00 |
| | Rear 15mm | 0.69 | 0.51 | 0.47 | 0.46 | 1.20 | 1.16 | 1.15 | 1.20 |

| Test Position / SAR 1g(W/kg) | | 1 WWAN | 2 WLAN2.4G | 3 WLAN5G | 4 BT |
|---|---|---|---|---|---|
| Head | Left Cheek | 0.80 | 0.47 | 0.66 | 0.00 |
| | Left Tilt | 0.80 | 0.64 | 0.68 | 0.00 |
| | Right Cheek | 0.94 | 0.26 | 0.22 | 0.00 |
| | Right Tilt | 1.04 | 0.33 | 0.39 | 0.00 |
| Hotspot | Front 10mm | 0.70 | 0.22 | 0.10 | 0.00 |
| | Rear 10mm | 1.05 | 0.33 | 0.76 | 0.03 |
| | Left 10mm | 0.42 | | | |
| | Right 10mm | 0.13 | 0.12 | 0.51 | 0.00 |
| | Bottom 10mm | 0.62 | | | |
| | Top 10mm | 0.68 | 0.31 | 0.60 | 0.00 |
| Body-worn | Front 15mm | 1.00 | 0.10 | 0.08 | 0.00 |
| | Rear 15mm | 1.20 | 0.16 | 0.49 | 0.03 |

| Test Position / SAR 1g(W/kg) | | simultaneous transmission 1+2 | simultaneous transmission 1+3+4 |
|---|---|---|---|
| Head | Left Cheek | 1.27 | 1.46 |
| | Left Tilt | 1.44 | 1.48 |
| | Right Cheek | 1.20 | 1.16 |
| | Right Tilt | 1.37 | 1.43 |
| Hotspot | Front 10mm | 0.92 | 0.80 |
| | Rear 10mm | 1.38 | 1.84 |
| | Left 10mm | 0.42 | 0.42 |
| | Right 10mm | 0.25 | 0.64 |
| | Bottom 10mm | 0.62 | 0.62 |
| Body-worn | Top 10mm | 0.99 | 1.28 |
| | Front 15mm | 1.10 | 1.08 |
| | Rear 15mm | 1.36 | 1.72 |

| Position | WWAN (W/kg) | | WLAN5G (W/kg) | BT (W/kg) | µm (W/kg) | SPLSR |
|---|---|---|---|---|---|---|
| Rear (10mm) | CA_2A_5A | 1.05 | 0.76 | 0.03 | 1.84 | Yes |
| | CA_2A_13A | 1.01 | 0.76 | 0.03 | 1.80 | Yes |
| | CA_2A_66A | 1.01 | 0.76 | 0.03 | 1.80 | Yes |
| Rear (15mm) | DC_5A_n2A | 1.20 | 0.49 | 0.03 | 1.72 | Yes |
| | DC_13A_n2A | 1.16 | 0.49 | 0.03 | 1.68 | Yes |
| | DC_66A_n2A | 1.15 | 0.49 | 0.03 | 1.67 | Yes |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B5 | Rear 10mm | 0.51 | 143.1 | 1.27 | 0.01 | Not required |
| WLAN 5G | | 0.76 | | | | |
| LTE B2 | | 0.54 | 51.37 | 1.3 | 0.03 | Not required |
| WLAN 5G | | 0.76 | | | | |
| LTE B13 | Rear 10mm | 0.47 | 144.18 | 1.23 | 0.01 | Not required |
| WLAN 5G | | 0.76 | | | | |
| LTE B2 | | 0.54 | 51.37 | 1.3 | 0.03 | Not required |
| WLAN 5G | | 0.76 | | | | |
| LTE B66 | Rear 10mm | 0.46 | 143.18 | 1.22 | 0.01 | Not required |
| WLAN 5G | | 0.76 | | | | |
| LTE B2 | | 0.54 | 51.37 | 1.3 | 0.03 | Not required |
| WLAN 5G | | 0.76 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B5 | Rear 10mm | 0.51 | 142.16 | 0.54 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| LTE B2 | | 0.54 | 36.6 | 0.57 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE B13 | Rear 10mm | 0.47 | 142.92 | 0.5 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| LTE B2 | | 0.54 | 36.6 | 0.57 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE B66 | Rear 10mm | 0.46 | 144.94 | 0.49 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| LTE B2 | | 0.54 | 36.6 | 0.57 | 0.01 | Not required |
| BT | | 0.03 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B5 | Rear 15mm | 0.51 | 151.67 | 1 | 0.01 | Not required |
| WLAN 5G | | 0.49 | | | | |
| LTE B2 | | 0.69 | 29.15 | 1.18 | 0.04 | Not required |
| WLAN 5G | | 0.49 | | | | |
| LTE B13 | Rear 15mm | 0.47 | 152.47 | 0.96 | 0.01 | Not required |
| WLAN 5G | | 0.49 | | | | |
| LTE B2 | | 0.69 | 29.15 | 1.18 | 0.04 | Not required |
| WLAN 5G | | 0.49 | | | | |
| LTE B66 | Rear 15mm | 0.46 | 153.96 | 0.95 | 0.01 | Not required |
| WLAN 5G | | 0.49 | | | | |
| LTE B2 | | 0.69 | 29.15 | 1.18 | 0.04 | Not required |
| WLAN 5G | | 0.49 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B5 | Rear 15mm | 0.51 | 142.16 | 0.54 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| LTE B2 | | 0.69 | 28.05 | 0.72 | 0.02 | Not required |
| BT | | 0.03 | | | | |
| LTE B13 | Rear 15mm | 0.47 | 142.92 | 0.5 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| LTE B2 | | 0.69 | 28.05 | 0.72 | 0.02 | Not required |
| BT | | 0.03 | | | | |
| LTE B66 | Rear 15mm | 0.46 | 144.94 | 0.49 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| LTE B2 | | 0.69 | 28.05 | 0.72 | 0.02 | Not required |
| BT | | 0.03 | | | | |

| Test Position / SAR 1g(W/kg) | | ENDC LTE B4 (ANT5) | ENDC LTE B5 (ANT1) | ENDC LTE B13 (ANT1) | ENDC 5A_2A (ANT1+5) | ENDC 13A_2A (ANT1+5) | ENDC MAX. SAR 1g |
|---|---|---|---|---|---|---|---|
| Head | Left Cheek | 0.30 | 0.41 | 0.34 | 0.71 | 0.64 | 0.71 |
| | Left Tilt | 0.36 | 0.27 | 0.21 | 0.63 | 0.57 | 0.63 |
| | Right Cheek | 0.43 | 0.40 | 0.36 | 0.83 | 0.79 | 0.83 |
| | Right Tilt | 0.56 | 0.29 | 0.18 | 0.85 | 0.74 | 0.85 |
| Hotspot | Front 10mm | 0.45 | 0.39 | 0.33 | 0.84 | 0.78 | 0.84 |
| | Rear 10mm | 0.51 | 0.51 | 0.47 | 1.02 | 0.98 | 1.02 |
| | Left 10mm | 0.13 | 0.35 | 0.34 | 0.48 | 0.47 | 0.48 |
| | Right 10mm | | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| | Bottom 10mm | | 0.09 | 0.07 | 0.09 | 0.07 | 0.09 |
| | Top 10mm | 0.67 | | | 0.67 | 0.67 | 0.67 |
| Body-worn | Front 15mm | 0.30 | 0.39 | 0.33 | 0.69 | 0.63 | 0.69 |
| | Rear 15mm | 0.43 | 0.51 | 0.47 | 0.94 | 0.90 | 0.94 |

| Test Position / SAR 1g(W/kg) | | 1 WWAN | 2 WLAN2.4G | 3 WLAN5G | 4 BT |
|---|---|---|---|---|---|
| Head | Left Cheek | 0.71 | 0.47 | 0.66 | 0.00 |
| | Left Tilt | 0.63 | 0.64 | 0.68 | 0.00 |
| | Right Cheek | 0.83 | 0.26 | 0.22 | 0.00 |
| | Right Tilt | 0.85 | 0.33 | 0.39 | 0.00 |
| Hotspot | Front 10mm | 0.84 | 0.22 | 0.10 | 0.00 |
| | Rear 10mm | 1.02 | 0.33 | 0.76 | 0.03 |
| | Left 10mm | 0.48 | | | |
| | Right 10mm | 0.09 | 0.12 | 0.51 | 0.00 |
| | Bottom 10mm | 0.09 | | | |
| | Top 10mm | 0.67 | 0.31 | 0.60 | 0.00 |
| Body-worn | Front 15mm | 0.69 | 0.10 | 0.08 | 0.00 |
| | Rear 15mm | 0.94 | 0.16 | 0.49 | 0.03 |

| Test Position / SAR 1g(W/kg) | | simultaneous transmission 1+2 | simultaneous transmission 1+3+4 |
|---|---|---|---|
| Head | Left Cheek | 1.18 | 1.37 |
| | Left Tilt | 1.27 | 1.31 |
| | Right Cheek | 1.09 | 1.05 |
| | Right Tilt | 1.18 | 1.24 |
| Hotspot | Front 10mm | 1.06 | 0.94 |
| | Rear 10mm | 1.35 | 1.81 |
| | Left 10mm | 0.48 | 0.48 |
| | Right 10mm | 0.21 | 0.60 |
| | Bottom 10mm | 0.09 | 0.09 |
| | Top 10mm | 0.98 | 1.27 |
| Body-worn | Front 15mm | 0.79 | 0.77 |
| | Rear 15mm | 1.10 | 1.46 |

| Position | WWAN (W/kg) | | WLAN5G (W/kg) | BT (W/kg) | um (W/kg) | SPLSR |
|---|---|---|---|---|---|---|
| Rear (10mm) | CA_4A_5A | 1.02 | 0.76 | 0.03 | 1.81 | Yes |
| | CA_4A_13A | 0.98 | 0.76 | 0.03 | 1.77 | Yes |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B5 | Rear 10mm | 0.51 | 143.1 | 1.27 | 0.01 | Not required |
| WLAN 5G | | 0.76 | | | | |
| LTE B4 | | 0.51 | 45.68 | 1.27 | 0.03 | Not required |
| WLAN 5G | | 0.76 | | | | |
| LTE B13 | Rear 10mm | 0.47 | 144.18 | 1.23 | 0.01 | Not required |
| WLAN 5G | | 0.76 | | | | |
| LTE B4 | | 0.51 | 45.68 | 1.27 | 0.03 | Not required |
| WLAN 5G | | 0.76 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B5 | Rear 10mm | 0.51 | 142.16 | 0.54 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| LTE B4 | | 0.51 | 36.71 | 0.54 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE B13 | Rear 10mm | 0.47 | 142.92 | 0.5 | 0.00 | Not required |
| BT | | 0.03 | | | | |
| LTE B4 | | 0.51 | 36.71 | 0.54 | 0.01 | Not required |
| BT | | 0.03 | | | | |

| Test Position / SAR 1g(W/kg) | | ENDC LTE B5 (ANT1) | ENDC LTE B66 (AN5) | ENDC 5A_n66A (ANT1+5) | ENDC MAX. SAR 1g |
|---|---|---|---|---|---|
| Head | Left Cheek | 0.41 | 0.35 | 0.76 | 0.76 |
| | Left Tilt | 0.27 | 0.42 | 0.69 | 0.69 |
| | Right Cheek | 0.40 | 0.50 | 0.90 | 0.90 |
| | Right Tilt | 0.29 | 0.65 | 0.94 | 0.94 |
| Hotspot | Front 10mm | 0.39 | 0.47 | 0.86 | 0.86 |
| | Rear 10mm | 0.51 | 0.61 | 1.12 | 1.12 |
| | Left 10mm | 0.35 | 0.14 | 0.49 | 0.49 |
| | Right 10mm | 0.09 | 0.09 | 0.18 | 0.18 |
| | Bottom 10mm | 0.09 | | 0.09 | 0.09 |
| Body-worn | Top 10mm | | 0.69 | 0.69 | 0.69 |
| | Front 15mm | 0.39 | 0.40 | 0.79 | 0.79 |
| | Rear 15mm | 0.51 | 0.57 | 1.08 | 1.08 |

| Test Position / SAR 1g(W/kg) | | 1 WWAN | 2 WLAN2.4G | 3 WLAN5G | 4 BT |
|---|---|---|---|---|---|
| Head | Left Cheek | 0.76 | 0.47 | 0.66 | 0.00 |
| | Left Tilt | 0.69 | 0.64 | 0.68 | 0.00 |
| | Right Cheek | 0.90 | 0.26 | 0.22 | 0.00 |
| | Right Tilt | 0.94 | 0.33 | 0.39 | 0.00 |
| Hotspot | Front 10mm | 0.86 | 0.22 | 0.10 | 0.00 |
| | Rear 10mm | 1.12 | 0.33 | 0.76 | 0.03 |
| | Left 10mm | 0.49 | | | |
| | Right 10mm | 0.18 | 0.12 | 0.51 | 0.00 |
| | Bottom 10mm | 0.09 | | | |
| Body-worn | Top 10mm | 0.69 | 0.31 | 0.60 | 0.00 |
| | Front 15mm | 0.79 | 0.10 | 0.08 | 0.00 |
| | Rear 15mm | 1.08 | 0.16 | 0.49 | 0.03 |

| Test Position / SAR 1g(W/kg) | | simultaneous transmission 1+2 | simultaneous transmission 1+3+4 |
|---|---|---|---|
| Head | Left Cheek | 1.23 | 1.42 |
| | Left Tilt | 1.33 | 1.37 |
| | Right Cheek | 1.16 | 1.12 |
| | Right Tilt | 1.27 | 1.33 |
| Hotspot | Front 10mm | 1.08 | 0.96 |
| | Rear 10mm | 1.45 | 1.91 |
| | Left 10mm | 0.49 | 0.49 |
| | Right 10mm | 0.30 | 0.69 |
| | Bottom 10mm | 0.09 | 0.09 |
| Body-worn | Top 10mm | 1.00 | 1.29 |
| | Front 15mm | 0.89 | 0.87 |
| | Rear 15mm | 1.24 | 1.60 |

| Position | WWAN (W/kg) | | WLAN5G (W/kg) | BT (W/kg) | Sum (W/kg) | SPLSR |
|---|---|---|---|---|---|---|
| Rear (10mm) | CA_5A_66A | 1.12 | 0.76 | 0.03 | 1.91 | Yes |
| Rear (15mm) | CA_5A_66A | 1.08 | 0.49 | 0.03 | 1.60 | Yes |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B66 | Rear 10mm | 0.61 | 54.26 | 1.37 | 0.03 | Not required |
| WLAN 5G | | 0.76 | | | | |
| LTE B5 | | 0.51 | 143.1 | 1.27 | 0.01 | Not required |
| WLAN 5G | | 0.76 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B66 | Rear 10mm | 0.61 | 40.11 | 0.64 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE B5 | | 0.51 | 142.16 | 0.54 | 0.00 | Not required |
| BT | | 0.03 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B66 | Rear 15mm | 0.57 | 48.28 | 1.06 | 0.02 | Not required |
| WLAN 5G | | 0.49 | | | | |
| LTE B5 | | 0.51 | 151.67 | 1 | 0.01 | Not required |
| WLAN 5G | | 0.49 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B66 | Rear 15mm | 0.57 | 42.99 | 0.6 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE B5 | | 0.51 | 142.16 | 0.54 | 0.00 | Not required |
| BT | | 0.03 | | | | |

| Test Position / SAR 1g(W/kg) | | ENDC LTE B13 (ANT1) | ENDC LTE B66 (AN5) | ENDC 13A_n66A (ANT1+5) | ENDC MAX. SAR 1g |
|---|---|---|---|---|---|
| Head | Left Cheek | 0.34 | 0.35 | 0.69 | 0.69 |
| | Left Tilt | 0.21 | 0.42 | 0.63 | 0.63 |
| | Right Cheek | 0.36 | 0.50 | 0.86 | 0.86 |
| | Right Tilt | 0.18 | 0.65 | 0.83 | 0.83 |
| Hotspot | Front 10mm | 0.33 | 0.47 | 0.80 | 0.80 |
| | Rear 10mm | 0.47 | 0.61 | 1.08 | 1.08 |
| | Left 10mm | 0.34 | 0.14 | 0.48 | 0.48 |
| | Right 10mm | 0.09 | 0.09 | 0.18 | 0.18 |
| | Bottom 10mm | 0.07 | | 0.07 | 0.07 |
| | Top 10mm | | 0.69 | 0.69 | 0.69 |
| Body-worn | Front 15mm | 0.33 | 0.40 | 0.73 | 0.73 |
| | Rear 15mm | 0.47 | 0.57 | 1.04 | 1.04 |

| Test Position / SAR 1g(W/kg) | | 1 WWAN | 2 WLAN2.4G | 3 WLAN5G | 4 BT |
|---|---|---|---|---|---|
| Head | Left Cheek | 0.69 | 0.47 | 0.66 | 0.00 |
| | Left Tilt | 0.63 | 0.64 | 0.68 | 0.00 |
| | Right Cheek | 0.86 | 0.26 | 0.22 | 0.00 |
| | Right Tilt | 0.83 | 0.33 | 0.39 | 0.00 |
| Hotspot | Front 10mm | 0.80 | 0.22 | 0.10 | 0.00 |
| | Rear 10mm | 1.08 | 0.33 | 0.76 | 0.02 |
| | Left 10mm | 0.48 | | | |
| | Right 10mm | 0.18 | 0.12 | 0.51 | 0.00 |
| | Bottom 10mm | 0.07 | | | |
| | Top 10mm | 0.69 | 0.31 | 0.60 | 0.00 |
| Body-worn | Front 15mm | 0.73 | 0.10 | 0.08 | 0.00 |
| | Rear 15mm | 1.04 | 0.16 | 0.49 | 0.02 |

| Test Position / SAR 1g(W/kg) | | simultaneous transmission 1+2 | simultaneous transmission 1+3+4 |
|---|---|---|---|
| Head | Left Cheek | 1.16 | 1.35 |
| | Left Tilt | 1.27 | 1.31 |
| | Right Cheek | 1.12 | 1.08 |
| | Right Tilt | 1.16 | 1.22 |
| Hotspot | Front 10mm | 1.02 | 0.90 |
| | Rear 10mm | 1.41 | 1.86 |
| | Left 10mm | 0.48 | 0.48 |
| | Right 10mm | 0.30 | 0.69 |
| | Bottom 10mm | 0.07 | 0.07 |
| | Top 10mm | 1.00 | 1.29 |
| Body-worn | Front 15mm | 0.83 | 0.81 |
| | Rear 15mm | 1.20 | 1.55 |

| Position | WWAN (W/kg) | | WLAN5G (W/kg) | BT (W/kg) | Sum (W/kg) | SPLSR |
|---|---|---|---|---|---|---|
| Rear (10mm) | CA_13A_66A | 1.12 | 0.76 | 0.03 | 1.91 | Yes |
| Rear (15mm) | CA_13A_66A | 1.08 | 0.49 | 0.03 | 1.60 | Yes |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B66 | Rear 10mm | 0.61 | 54.26 | 1.37 | 0.03 | Not required |
| WLAN 5G | | 0.76 | | | | |
| LTE B13 | | 0.47 | 144.18 | 1.23 | 0.01 | Not required |
| WLAN 5G | | 0.76 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B66 | Rear 10mm | 0.61 | 40.11 | 0.64 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE B13 | | 0.47 | 142.92 | 0.5 | 0.00 | Not required |
| BT | | 0.03 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B66 | Rear 15mm | 0.57 | 48.28 | 1.06 | 0.02 | Not required |
| WLAN 5G | | 0.49 | | | | |
| LTE B13 | | 0.47 | 152.47 | 0.96 | 0.01 | Not required |
| WLAN 5G | | 0.49 | | | | |

| Band | Position | SAR(W/kg) | distance | Pair SAR sum(W/kg) | SPLSR | Simultaneous SAR |
|---|---|---|---|---|---|---|
| LTE B66 | Rear 15mm | 0.57 | 42.99 | 0.6 | 0.01 | Not required |
| BT | | 0.03 | | | | |
| LTE B13 | | 0.47 | 142.92 | 0.5 | 0.00 | Not required |
| BT | | 0.03 | | | | |

**Conclusion:**

According to the above tables, the sum of reported SAR values is<1.6W/kg. So the simultaneous transmission SAR with volume scans is not required.

# 14 SAR Test Result

**Note:**

**KDB 447498 D01 General RF Exposure Guidance:**

For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor

For BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor

Testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:

≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz

≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz

≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz

**KDB 648474 D04 Handset SAR:**

With headset attached, when the reported SAR for body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

**KDB 941225 D01 SAR test for 3G devices:**

When the maximum output power and tune-up tolerance specified for production units in a secondary mode is ≤ ¼ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

**KDB 941225 D05 SAR for LTE Devices:**

SAR test reduction is applied using the following criteria:

Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB, and 50% RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel.

When the reported SAR is > 0.8 W/kg, testing for other Channels is performed at the highest output power level for 1RB, and 50% RB configuration for that channel.

Testing for 100% RB configuration is performed at the highest output power level for 100% RB configuration across the Low,Mid and High Channel when the highest reported SAR for 1 RB and 50% RB are > 0.8 W/kg. Testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation < 1.45 W/kg.

Testing for 16-QAM modulation is not required because the reported SAR for QPSK is < 1.45 W/Kg and its output power is not more than 0.5 dB higher than that of QPSK.

Testing for the other channel bandwidths is not required because the reported SAR for the highest channel bandwidth is <1.45 W/Kg and its output power is not more than 0.5 dB higher than that of the highest channel bandwidth.

For LTE bands that do not support at least three non-overlapping channels in certain channel bandwidths, test the available non-overlapping channels instead. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the

group of overlapping channels should be selected for testing; therefore, the requirement for H, M and L channels may not fully apply.

**KDB 248227 D01 SAR meas for 802.11:**

SAR test reduction for 802.11 Wi-Fi transmission mode configurations are considered separately for DSSS and OFDM. An initial test position is determined to reduce the number of tests required for certain exposure configurations with multiple test positions.An initial test configuration is determined for each frequency band and aggregated band according to maximum output power, channel bandwidth, wireless mode configurations and other operating parameters to streamline the measurement requirements. For 2.4 GHz DSSS, either the initial test position or DSSS procedure is applied to reduce the number of SAR tests; these are mutually exclusive. For OFDM, an initial test position is only applicable to next to the ear, UMPC mini-tablet and hotspot mode configurations, which is tested using the initial test configuration to facilitate test reduction. For other exposure conditions with a fixed test position, SAR test reduction is determined using only the initial test configuration.

To determine the initial test position, Area Scans were performed to determine the position with the Maximum Value of SAR (measured). The position that produced the highest Maximum Value of SAR is considered the worst case position; thus used as the initial test position.

The multiple test positions require SAR measurements in head, hotspot mode or UMPC mini-tablet configurations may be reduced according to the highest reported SAR determined using the initial test position(s) by applying the DSSS or OFDM SAR measurement procedures in the required wireless mode test configuration(s). The initial test position(s) is measured using the highest measured maximum output power channel in the required wireless mode test configuration(s).

When the reported SAR for the initial test position is:

≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and wireless mode combination within the frequency band or aggregated band. DSSS and OFDM configurations are considered separately according to the required SAR procedures.

> 0.4 W/kg, SAR is repeated using the same wireless mode test configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions are tested.

- For subsequent test positions with equivalent test separation distance or when exposure is dominated by coupling conditions, the position for maximum coupling condition should be tested.
- When it is unclear, all equivalent conditions must be tested.

For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, measure the SAR for these positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required test channels are considered.

- The additional power measurements required for this step should be limited to those necessary for identifying subsequent highest output power channels to apply the test reduction.

When the specified maximum output power is the same for both UNII 1 and UNII 2A, begin SAR measurements in UNII 2A with the channel with the highest measured output power. If the reported SAR for UNII 2A is ≤ 1.2 W/kg, SAR is not required for UNII 1; otherwise treat the remaining bands separately and test them independently for SAR.

When the specified maximum output power is different between UNII 1 and UNII 2A, begin SAR with the band that has the higher specified maximum output. If the highest reported SAR for the band with the highest specified power is ≤ 1.2 W/kg, testing for the band with the lower specified output power is not required; otherwise test the remaining bands independently for SAR.

**Table 14.1: Duty Cycle**

| Mode | Duty Cycle |
|---|---|
| Speech for GSM | 1:8.3 |
| GPRS&EGPRS 1 Slot | 1:8.3 |
| GPRS&EGPRS 2 Slot | 1:4 |
| GPRS&EGPRS 3 Slot | 1:2.67 |
| GPRS&EGPRS 4 Slot | 1:2 |
| WCDMA&LTE FDD | 1:1 |

Note1: The data is used for stand-alone
Note2: The data is used for ENDC/ULCA

## 14.1 SAR results for 2G/3G/4G

| ANT | RF Exposure Conditions | Frequency Band | Channel Number | Frequency (MHz) | Mode/RB | Test setup | Distance | Figure No. | Note | E/T Measured Power (dBm) | Tune up (dBm) | Measured SAR 1g (W/kg) | Calculated SAR 1g (W/kg) | Measured SAR 10g (W/kg) | Calculated SAR 10g (W/kg) | Power Drift |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Head | WCDMA 850 | 4233 | 846.6 | RMC | Cheek Left | 0mm | \ | \ | 23.18 | 24.00 | 0.262 | **0.32** | 0.205 | **0.25** | -0.04 |
| 1 | Head | WCDMA 850 | 4183 | 836.6 | RMC | Cheek Left | 0mm | \ | \ | 23.21 | 24.00 | 0.256 | **0.31** | 0.198 | **0.24** | 0.12 |
| 1 | Head | WCDMA 850 | 4132 | 826.4 | RMC | Cheek Left | 0mm | FIG A.1 | \ | 23.17 | 24.00 | 0.263 | **0.32** | 0.206 | **0.25** | 0.19 |
| 1 | Head | WCDMA 850 | 4183 | 836.6 | RMC | Tilt Left | 0mm | \ | \ | 23.21 | 24.00 | 0.168 | **0.20** | 0.139 | **0.17** | -0.10 |
| 1 | Head | WCDMA 850 | 4183 | 836.6 | RMC | Cheek Right | 0mm | \ | \ | 23.21 | 24.00 | 0.245 | **0.29** | 0.194 | **0.23** | 0.10 |
| 1 | Head | WCDMA 850 | 4183 | 836.6 | RMC | Tilt Right | 0mm | \ | \ | 23.21 | 24.00 | 0.179 | **0.21** | 0.146 | **0.18** | 0.16 |
| | | | | | | | | | | | | | | | | |
| 1 | Body | WCDMA 850 | 4183 | 836.6 | RMC | Front | 10mm | \ | \ | 23.21 | 24.00 | 0.223 | **0.27** | 0.143 | **0.17** | -0.11 |
| 1 | Body | WCDMA 850 | 4233 | 846.6 | RMC | Rear | 10mm | \ | \ | 23.18 | 24.00 | 0.264 | **0.32** | 0.170 | **0.21** | -0.08 |
| 1 | Body | WCDMA 850 | 4183 | 836.6 | RMC | Rear | 10mm | \ | \ | 23.21 | 24.00 | 0.277 | **0.33** | 0.178 | **0.21** | -0.07 |
| 1 | Body | WCDMA 850 | 4132 | 826.4 | RMC | Rear | 10mm | FIG A.2 | \ | 23.17 | 24.00 | 0.285 | **0.35** | 0.183 | **0.22** | 0.05 |
| 1 | Body | WCDMA 850 | 4183 | 836.6 | RMC | Left | 10mm | \ | \ | 23.21 | 24.00 | 0.205 | **0.25** | 0.135 | **0.16** | 0.13 |
| 1 | Body | WCDMA 850 | 4183 | 836.6 | RMC | Right | 10mm | \ | \ | 23.21 | 24.00 | 0.047 | **0.06** | 0.027 | **0.03** | -0.10 |
| 1 | Body | WCDMA 850 | 4183 | 836.6 | RMC | Bottom | 10mm | \ | \ | 23.21 | 24.00 | 0.048 | **0.06** | 0.028 | **0.03** | 0.05 |
| | | | | | | | | | | | | | | | | |
| 1 | Head | WCDMA 1700 | 1412 | 1732.4 | RMC | Cheek Left | 0mm | \ | \ | 22.99 | 24.00 | 0.094 | **0.12** | 0.067 | **0.08** | -0.11 |
| 1 | Head | WCDMA 1700 | 1412 | 1732.4 | RMC | Tilt Left | 0mm | \ | \ | 22.99 | 24.00 | 0.083 | **0.10** | 0.054 | **0.07** | -0.18 |
| 1 | Head | WCDMA 1700 | 1513 | 1752.6 | RMC | Cheek Right | 0mm | FIG A.3 | \ | 23.01 | 24.00 | 0.129 | **0.16** | 0.086 | **0.11** | 0.11 |
| 1 | Head | WCDMA 1700 | 1412 | 1732.4 | RMC | Cheek Right | 0mm | \ | \ | 22.99 | 24.00 | 0.108 | **0.14** | 0.073 | **0.09** | -0.18 |
| 1 | Head | WCDMA 1700 | 1312 | 1712.4 | RMC | Cheek Right | 0mm | \ | \ | 22.93 | 24.00 | 0.111 | **0.14** | 0.075 | **0.10** | 0.12 |
| 1 | Head | WCDMA 1700 | 1412 | 1732.4 | RMC | Tilt Right | 0mm | \ | \ | 22.99 | 24.00 | 0.066 | **0.08** | 0.045 | **0.06** | 0.02 |
| | | | | | | | | | | | | | | | | |
| 1 | Body | WCDMA 1700 | 1412 | 1732.4 | RMC | Front | 10mm | \ | \ | 18.33 | 19.50 | 0.305 | **0.40** | 0.190 | **0.25** | -0.04 |
| 1 | Body | WCDMA 1700 | 1513 | 1752.6 | RMC | Rear | 10mm | \ | \ | 18.22 | 19.50 | 0.611 | **0.82** | 0.325 | **0.44** | 0.15 |
| 1 | Body | WCDMA 1700 | 1412 | 1732.4 | RMC | Rear | 10mm | \ | \ | 18.33 | 19.50 | 0.647 | **0.85** | 0.354 | **0.46** | 0.03 |
| 1 | Body | WCDMA 1700 | 1312 | 1712.4 | RMC | Rear | 10mm | \ | \ | 18.28 | 19.50 | 0.632 | **0.84** | 0.339 | **0.45** | 0.08 |
| 1 | Body | WCDMA 1700 | 1412 | 1732.4 | RMC | Left | 10mm | \ | \ | 18.33 | 19.50 | 0.042 | **0.05** | 0.027 | **0.04** | 0.06 |
| 1 | Body | WCDMA 1700 | 1412 | 1732.4 | RMC | Right | 10mm | \ | \ | 18.33 | 19.50 | 0.066 | **0.09** | 0.042 | **0.05** | -0.18 |
| 1 | Body | WCDMA 1700 | 1513 | 1752.6 | RMC | Bottom | 10mm | \ | \ | 18.22 | 19.50 | 0.696 | **0.93** | 0.400 | **0.54** | -0.08 |
| 1 | Body | WCDMA 1700 | 1412 | 1732.4 | RMC | Bottom | 10mm | \ | \ | 18.33 | 19.50 | 0.795 | **1.04** | 0.454 | **0.59** | 0.04 |
| 1 | Body | WCDMA 1700 | 1312 | 1712.4 | RMC | Bottom | 10mm | FIG A.4 | \ | 18.28 | 19.50 | 0.887 | **1.17** | 0.479 | **0.63** | 0.16 |
| 1 | Body | WCDMA 1700 | 1312 | 1712.4 | RMC | Bottom | 10mm | \ | 2nd source | 18.28 | 19.50 | 0.823 | **1.09** | 0.445 | **0.59** | -0.19 |
| | | | | | | | | | | | | | | | | |
| 1 | Head | WCDMA 1900 | 9538 | 1907.6 | RMC | Cheek Left | 0mm | \ | \ | 22.84 | 24.00 | 0.119 | **0.16** | 0.079 | **0.10** | -0.04 |
| 1 | Head | WCDMA 1900 | 9400 | 1880 | RMC | Cheek Left | 0mm | \ | \ | 22.81 | 24.00 | 0.129 | **0.17** | 0.086 | **0.11** | 0.12 |
| 1 | Head | WCDMA 1900 | 9262 | 1852.4 | RMC | Cheek Left | 0mm | FIG A.5 | \ | 22.85 | 24.00 | 0.132 | **0.17** | 0.090 | **0.12** | 0.14 |
| 1 | Head | WCDMA 1900 | 9400 | 1880 | RMC | Tilt Left | 0mm | \ | \ | 22.81 | 24.00 | 0.122 | **0.16** | 0.079 | **0.10** | 0.06 |
| 1 | Head | WCDMA 1900 | 9400 | 1880 | RMC | Cheek Right | 0mm | \ | \ | 22.81 | 24.00 | 0.107 | **0.14** | 0.071 | **0.09** | -0.15 |
| 1 | Head | WCDMA 1900 | 9400 | 1880 | RMC | Tilt Right | 0mm | \ | \ | 22.81 | 24.00 | 0.099 | **0.13** | 0.067 | **0.09** | 0.15 |
| | | | | | | | | | | | | | | | | |
| 1 | Body | WCDMA 1900 | 9400 | 1880 | RMC | Front | 10mm | \ | \ | 20.05 | 21.00 | 0.219 | **0.27** | 0.126 | **0.16** | -0.12 |
| 1 | Body | WCDMA 1900 | 9400 | 1880 | RMC | Rear | 10mm | \ | \ | 20.05 | 21.00 | 0.530 | **0.66** | 0.299 | **0.37** | 0.08 |
| 1 | Body | WCDMA 1900 | 9400 | 1880 | RMC | Left | 10mm | \ | \ | 20.05 | 21.00 | 0.089 | **0.11** | 0.054 | **0.07** | 0.18 |
| 1 | Body | WCDMA 1900 | 9400 | 1880 | RMC | Right | 10mm | \ | \ | 20.05 | 21.00 | 0.061 | **0.08** | 0.036 | **0.04** | -0.05 |
| 1 | Body | WCDMA 1900 | 9538 | 1907.6 | RMC | Bottom | 10mm | \ | \ | 20.03 | 21.00 | 0.565 | **0.71** | 0.302 | **0.38** | 0.09 |
| 1 | Body | WCDMA 1900 | 9400 | 1880 | RMC | Bottom | 10mm | \ | \ | 20.05 | 21.00 | 0.673 | **0.84** | 0.359 | **0.45** | 0.19 |
| 1 | Body | WCDMA 1900 | 9262 | 1852.4 | RMC | Bottom | 10mm | FIG A.6 | \ | 20.06 | 21.00 | 0.831 | **1.03** | 0.446 | **0.55** | 0.01 |
| | | | | | | | | | | | | | | | | |
| 1 | Head | LTE Band2 | 18900 | 1880 | 1RB-High | Cheek Left | 0mm | \ | Note1 | 23.20 | 24.50 | 0.126 | **0.17** | 0.084 | **0.11** | -0.05 |
| 1 | Head | LTE Band2 | 18900 | 1880 | 1RB-High | Tilt Left | 0mm | \ | Note1 | 23.20 | 24.50 | 0.128 | **0.17** | 0.081 | **0.11** | -0.18 |
| 1 | Head | LTE Band2 | 18900 | 1880 | 1RB-High | Cheek Right | 0mm | \ | Note1 | 23.20 | 24.50 | 0.097 | **0.13** | 0.065 | **0.09** | 0.13 |
| 1 | Head | LTE Band2 | 18900 | 1880 | 1RB-High | Tilt Right | 0mm | \ | Note1 | 23.20 | 24.50 | 0.100 | **0.13** | 0.067 | **0.09** | 0.15 |
| 1 | Head | LTE Band2 | 19100 | 1900 | 50RB-High | Cheek Left | 0mm | \ | Note1 | 22.18 | 23.50 | 0.099 | **0.13** | 0.066 | **0.09** | -0.17 |
| 1 | Head | LTE Band2 | 19100 | 1900 | 50RB-High | Tilt Left | 0mm | \ | Note1 | 22.18 | 23.50 | 0.102 | **0.14** | 0.064 | **0.09** | -0.13 |
| 1 | Head | LTE Band2 | 19100 | 1900 | 50RB-High | Cheek Right | 0mm | \ | Note1 | 22.18 | 23.50 | 0.081 | **0.11** | 0.054 | **0.07** | 0.08 |
| 1 | Head | LTE Band2 | 19100 | 1900 | 50RB-High | Tilt Right | 0mm | \ | Note1 | 22.18 | 23.50 | 0.077 | **0.10** | 0.052 | **0.07** | 0.16 |
| | | | | | | | | | | | | | | | | |
| 1 | Body | LTE Band2 | 18900 | 1880 | 1RB-High | Front | 10mm | \ | Note1 | 20.49 | 21.50 | 0.264 | **0.33** | 0.155 | **0.20** | -0.02 |
| 1 | Body | LTE Band2 | 18900 | 1880 | 1RB-High | Rear | 10mm | \ | Note1 | 20.49 | 21.50 | 0.429 | **0.54** | 0.248 | **0.31** | -0.06 |
| 1 | Body | LTE Band2 | 18900 | 1880 | 1RB-High | Left | 10mm | \ | Note1 | 20.49 | 21.50 | 0.095 | **0.12** | 0.057 | **0.07** | -0.01 |
| 1 | Body | LTE Band2 | 18900 | 1880 | 1RB-High | Right | 10mm | \ | Note1 | 20.49 | 21.50 | 0.064 | **0.08** | 0.038 | **0.05** | 0.19 |
| 1 | Body | LTE Band2 | 19100 | 1900 | 1RB-High | Bottom | 10mm | \ | Note1 | 20.47 | 21.50 | 0.594 | **0.75** | 0.321 | **0.41** | -0.16 |
| 1 | Body | LTE Band2 | 18900 | 1880 | 1RB-High | Bottom | 10mm | \ | Note1 | 20.49 | 21.50 | 0.707 | **0.89** | 0.381 | **0.48** | -0.18 |
| 1 | Body | LTE Band2 | 18700 | 1860 | 1RB-High | Bottom | 10mm | FIG A.8 | Note1 | 20.41 | 21.50 | 0.784 | **1.01** | 0.424 | **0.54** | -0.10 |
| 1 | Body | LTE Band2 | 18900 | 1880 | 50RB-High | Front | 10mm | \ | Note1 | 20.50 | 21.50 | 0.265 | **0.33** | 0.156 | **0.20** | 0.05 |
| 1 | Body | LTE Band2 | 18900 | 1880 | 50RB-High | Rear | 10mm | \ | Note1 | 20.50 | 21.50 | 0.421 | **0.53** | 0.243 | **0.31** | 0.17 |
| 1 | Body | LTE Band2 | 18900 | 1880 | 50RB-High | Left | 10mm | \ | Note1 | 20.50 | 21.50 | 0.093 | **0.12** | 0.056 | **0.07** | -0.08 |
| 1 | Body | LTE Band2 | 18900 | 1880 | 50RB-High | Right | 10mm | \ | Note1 | 20.50 | 21.50 | 0.066 | **0.08** | 0.039 | **0.05** | -0.14 |
| 1 | Body | LTE Band2 | 19100 | 1900 | 50RB-High | Bottom | 10mm | \ | Note1 | 20.50 | 21.50 | 0.582 | **0.73** | 0.319 | **0.40** | 0.11 |
| 1 | Body | LTE Band2 | 18900 | 1880 | 50RB-High | Bottom | 10mm | \ | Note1 | 20.50 | 21.50 | 0.683 | **0.86** | 0.370 | **0.47** | 0.03 |
| 1 | Body | LTE Band2 | 18700 | 1860 | 50RB-High | Bottom | 10mm | \ | Note1 | 20.50 | 21.50 | 0.691 | **0.87** | 0.376 | **0.47** | 0.15 |
| 1 | Body | LTE Band2 | 18900 | 1880 | 100RB | Bottom | 10mm | \ | Note1 | 20.45 | 21.50 | 0.655 | **0.83** | 0.363 | **0.46** | 0.19 |
| | | | | | | | | | | | | | | | | |
| 1 | Body | LTE Band2 | 18900 | 1880 | 1RB-Middle | Front | 10mm | \ | Note2 | 19.38 | 20.00 | 0.187 | **0.22** | 0.109 | **0.13** | 0.12 |
| 1 | Body | LTE Band2 | 18900 | 1880 | 1RB-Middle | Rear | 10mm | \ | Note2 | 19.38 | 20.00 | 0.331 | **0.38** | 0.190 | **0.22** | -0.06 |
| 1 | Body | LTE Band2 | 18900 | 1880 | 1RB-Middle | Left | 10mm | \ | Note2 | 19.38 | 20.00 | 0.067 | **0.08** | 0.040 | **0.05** | 0.05 |
| 1 | Body | LTE Band2 | 18900 | 1880 | 1RB-Middle | Right | 10mm | \ | Note2 | 19.38 | 20.00 | 0.045 | **0.05** | 0.027 | **0.03** | 0.18 |
| 1 | Body | LTE Band2 | 18900 | 1880 | 1RB-Middle | Bottom | 10mm | \ | Note2 | 19.38 | 20.00 | 0.500 | **0.58** | 0.267 | **0.31** | 0.15 |
| 1 | Body | LTE Band2 | 18900 | 1880 | 50RB-Middle | Front | 10mm | \ | Note2 | 19.33 | 20.00 | 0.187 | **0.22** | 0.109 | **0.13** | -0.07 |
| 1 | Body | LTE Band2 | 18900 | 1880 | 50RB-Middle | Rear | 10mm | \ | Note2 | 19.33 | 20.00 | 0.298 | **0.35** | 0.170 | **0.20** | 0.15 |
| 1 | Body | LTE Band2 | 18900 | 1880 | 50RB-Middle | Left | 10mm | \ | Note2 | 19.33 | 20.00 | 0.066 | **0.08** | 0.039 | **0.05** | 0.17 |
| 1 | Body | LTE Band2 | 18900 | 1880 | 50RB-Middle | Right | 10mm | \ | Note2 | 19.33 | 20.00 | 0.047 | **0.05** | 0.027 | **0.03** | -0.06 |
| 1 | Body | LTE Band2 | 18900 | 1880 | 50RB-Middle | Bottom | 10mm | \ | Note2 | 19.33 | 20.00 | 0.483 | **0.56** | 0.259 | **0.30** | -0.08 |
| | | | | | | | | | | | | | | | | |
| 5 | Head | LTE Band2 | 18900 | 1880 | 1RB-Middle | Cheek Left | 0mm | \ | Note2 | 14.18 | 15.00 | 0.316 | **0.38** | 0.148 | **0.18** | -0.13 |
| 5 | Head | LTE Band2 | 18900 | 1880 | 1RB-Middle | Tilt Left | 0mm | \ | Note2 | 14.18 | 15.00 | 0.405 | **0.49** | 0.185 | **0.22** | -0.06 |
| 5 | Head | LTE Band2 | 18900 | 1880 | 1RB-Middle | Cheek Right | 0mm | \ | Note2 | 14.18 | 15.00 | 0.422 | **0.51** | 0.184 | **0.22** | -0.15 |
| 5 | Head | LTE Band2 | 18900 | 1880 | 1RB-Middle | Tilt Right | 0mm | FIG A.7 | Note2 | 14.18 | 15.00 | 0.619 | **0.75** | 0.270 | **0.33** | 0.18 |
| 5 | Head | LTE Band2 | 19100 | 1900 | 50RB-Middle | Cheek Left | 0mm | \ | Note2 | 14.15 | 15.00 | 0.322 | **0.39** | 0.148 | **0.18** | -0.02 |
| 5 | Head | LTE Band2 | 19100 | 1900 | 50RB-Middle | Tilt Left | 0mm | \ | Note2 | 14.15 | 15.00 | 0.438 | **0.53** | 0.192 | **0.23** | -0.05 |
| 5 | Head | LTE Band2 | 19100 | 1900 | 50RB-Middle | Cheek Right | 0mm | \ | Note2 | 14.15 | 15.00 | 0.441 | **0.54** | 0.197 | **0.24** | 0.12 |
| 5 | Head | LTE Band2 | 19100 | 1900 | 50RB-Middle | Tilt Right | 0mm | \ | Note2 | 14.15 | 15.00 | 0.591 | **0.72** | 0.256 | **0.31** | 0.17 |
| | | | | | | | | | | | | | | | | |
| 5 | Body | LTE Band2 | 18900 | 1880 | 1RB-Middle | Front | 10mm | \ | Note2 | 18.19 | 19.00 | 0.257 | **0.31** | 0.134 | **0.16** | -0.01 |
| 5 | Body | LTE Band2 | 18900 | 1880 | 1RB-Middle | Rear | 10mm | \ | Note2 | 18.19 | 19.00 | 0.452 | **0.54** | 0.233 | **0.28** | -0.02 |
| 5 | Body | LTE Band2 | 18900 | 1880 | 1RB-Middle | Left | 10mm | \ | Note2 | 18.19 | 19.00 | 0.054 | **0.07** | 0.033 | **0.04** | -0.01 |
| 5 | Body | LTE Band2 | 18900 | 1880 | 1RB-Middle | Top | 10mm | \ | Note2 | 18.19 | 19.00 | 0.565 | **0.68** | 0.278 | **0.33** | -0.11 |
| 5 | Body | LTE Band2 | 18900 | 1880 | 50RB-Middle | Front | 10mm | \ | Note2 | 18.16 | 19.00 | 0.242 | **0.29** | 0.130 | **0.16** | -0.15 |
| 5 | Body | LTE Band2 | 18900 | 1880 | 50RB-Middle | Rear | 10mm | \ | Note2 | 18.16 | 19.00 | 0.418 | **0.51** | 0.204 | **0.25** | 0.13 |
| 5 | Body | LTE Band2 | 18900 | 1880 | 50RB-Middle | Left | 10mm | \ | Note2 | 18.16 | 19.00 | 0.056 | **0.07** | 0.033 | **0.04** | 0.12 |
| 5 | Body | LTE Band2 | 18900 | 1880 | 50RB-Middle | Top | 10mm | \ | Note2 | 18.16 | 19.00 | 0.542 | **0.66** | 0.267 | **0.32** | 0.07 |
| | | | | | | | | | | | | | | | | |
| 5 | Body | LTE Band2 | 18900 | 1880 | 1RB-Middle | Front | 15mm | \ | Note2 | 20.48 | 21.00 | 0.539 | **0.61** | 0.295 | **0.33** | 0.15 |
| 5 | Body | LTE Band2 | 18900 | 1880 | 1RB-Middle | Rear | 15mm | \ | Note2 | 20.48 | 21.00 | 0.613 | **0.69** | 0.343 | **0.39** | -0.08 |
| 5 | Body | LTE Band2 | 18900 | 1880 | 50RB-Middle | Front | 15mm | \ | Note2 | 20.44 | 21.00 | 0.491 | **0.56** | 0.264 | **0.30** | -0.06 |
| 5 | Body | LTE Band2 | 18900 | 1880 | 50RB-Middle | Rear | 15mm | \ | Note2 | 20.44 | 21.00 | 0.539 | **0.61** | 0.302 | **0.34** | 0.16 |

| ANT | RF Exposure Conditions | Frequency Band | Channel Number | Frequency (MHz) | Mode/RB | Test setup | Distance | Figure No. | Note | EUT Measured Power (dBm) | Tune up (dBm) | Measured SAR 1g (W/kg) | Calculated SAR 1g (W/kg) | Measured SAR 10g (W/kg) | Calculated SAR 10g (W/kg) | Power Drift |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Head | LTE Band4 | 20175 | 1732.5 | 1RB-Low | Cheek Left | 0mm | \ | \ | 23.12 | 24.50 | 0.144 | **0.20** | 0.098 | **0.13** | -0.11 |
| 1 | Head | LTE Band4 | 20175 | 1732.5 | 1RB-Low | Tilt Left | 0mm | \ | \ | 23.12 | 24.50 | 0.122 | **0.17** | 0.078 | **0.11** | -0.10 |
| 1 | Head | LTE Band4 | 20175 | 1732.5 | 1RB-Low | Cheek Right | 0mm | \ | \ | 23.12 | 24.50 | 0.182 | **0.25** | 0.117 | **0.16** | 0.19 |
| 1 | Head | LTE Band4 | 20175 | 1732.5 | 1RB-Low | Tilt Right | 0mm | \ | \ | 23.12 | 24.50 | 0.097 | **0.13** | 0.064 | **0.09** | -0.08 |
| 1 | Head | LTE Band4 | 20050 | 1720 | 50RB-Middle | Cheek Left | 0mm | \ | \ | 22.01 | 23.50 | 0.121 | **0.17** | 0.082 | **0.12** | 0.17 |
| 1 | Head | LTE Band4 | 20050 | 1720 | 50RB-Middle | Tilt Left | 0mm | \ | \ | 22.01 | 23.50 | 0.101 | **0.14** | 0.064 | **0.09** | 0.09 |
| 1 | Head | LTE Band4 | 20050 | 1720 | 50RB-Middle | Cheek Right | 0mm | \ | \ | 22.01 | 23.50 | 0.144 | **0.20** | 0.093 | **0.13** | -0.14 |
| 1 | Head | LTE Band4 | 20050 | 1720 | 50RB-Middle | Tilt Right | 0mm | \ | \ | 22.01 | 23.50 | 0.085 | **0.12** | 0.056 | **0.08** | 0.10 |
| | | | | | | | | | | | | | | | | |
| 1 | Body | LTE Band4 | 20175 | 1732.5 | 1RB-Low | Front | 10mm | \ | \ | 18.38 | 19.50 | 0.208 | **0.27** | 0.099 | **0.13** | 0.03 |
| 1 | Body | LTE Band4 | 20300 | 1745 | 1RB-Low | Rear | 10mm | \ | \ | 18.37 | 19.50 | 0.619 | **0.80** | 0.326 | **0.42** | 0.14 |
| 1 | Body | LTE Band4 | 20175 | 1732.5 | 1RB-Low | Rear | 10mm | \ | \ | 18.38 | 19.50 | 0.654 | **0.85** | 0.359 | **0.46** | 0.07 |
| 1 | Body | LTE Band4 | 20050 | 1720 | 1RB-Low | Rear | 10mm | \ | \ | 18.33 | 19.50 | 0.641 | **0.84** | 0.345 | **0.45** | 0.11 |
| 1 | Body | LTE Band4 | 20175 | 1732.5 | 1RB-Low | Left | 10mm | \ | \ | 18.38 | 19.50 | 0.051 | **0.07** | 0.029 | **0.04** | -0.05 |
| 1 | Body | LTE Band4 | 20175 | 1732.5 | 1RB-Low | Right | 10mm | \ | \ | 18.38 | 19.50 | 0.037 | **0.05** | 0.022 | **0.03** | 0.03 |
| 1 | Body | LTE Band4 | 20300 | 1745 | 1RB-Low | Bottom | 10mm | \ | \ | 18.37 | 19.50 | 0.697 | **0.90** | 0.370 | **0.48** | 0.06 |
| 1 | Body | LTE Band4 | 20175 | 1732.5 | 1RB-Low | Bottom | 10mm | \ | \ | 18.38 | 19.50 | 0.777 | **1.01** | 0.407 | **0.53** | -0.15 |
| 1 | Body | LTE Band4 | 20050 | 1720 | 1RB-Low | Bottom | 10mm | FIG A.10 | \ | 18.33 | 19.50 | 0.801 | **1.05** | 0.424 | **0.56** | -0.17 |
| 1 | Body | LTE Band4 | 20175 | 1732.5 | 50RB-High | Front | 10mm | \ | \ | 18.33 | 19.50 | 0.233 | **0.31** | 0.134 | **0.18** | 0.16 |
| 1 | Body | LTE Band4 | 20300 | 1745 | 50RB-High | Rear | 10mm | \ | \ | 18.29 | 19.50 | 0.608 | **0.80** | 0.319 | **0.42** | 0.02 |
| 1 | Body | LTE Band4 | 20175 | 1732.5 | 50RB-High | Rear | 10mm | \ | \ | 18.33 | 19.50 | 0.642 | **0.84** | 0.343 | **0.45** | 0.11 |
| 1 | Body | LTE Band4 | 20050 | 1720 | 50RB-High | Rear | 10mm | \ | \ | 18.31 | 19.50 | 0.632 | **0.83** | 0.336 | **0.44** | -0.06 |
| 1 | Body | LTE Band4 | 20175 | 1732.5 | 50RB-High | Left | 10mm | \ | \ | 18.33 | 19.50 | 0.047 | **0.06** | 0.025 | **0.03** | -0.10 |
| 1 | Body | LTE Band4 | 20175 | 1732.5 | 50RB-High | Right | 10mm | \ | \ | 18.33 | 19.50 | 0.049 | **0.06** | 0.029 | **0.04** | -0.14 |
| 1 | Body | LTE Band4 | 20300 | 1745 | 50RB-High | Bottom | 10mm | \ | \ | 18.29 | 19.50 | 0.662 | **0.87** | 0.356 | **0.47** | 0.17 |
| 1 | Body | LTE Band4 | 20175 | 1732.5 | 50RB-High | Bottom | 10mm | \ | \ | 18.33 | 19.50 | 0.701 | **0.92** | 0.369 | **0.48** | 0.04 |
| 1 | Body | LTE Band4 | 20050 | 1720 | 50RB-High | Bottom | 10mm | \ | \ | 18.31 | 19.50 | 0.782 | **1.03** | 0.411 | **0.54** | -0.09 |
| 1 | Body | LTE Band4 | 20050 | 1720 | 100RB | Rear | 10mm | \ | \ | 18.32 | 19.50 | 0.612 | **0.80** | 0.324 | **0.43** | 0.16 |
| 1 | Body | LTE Band4 | 20050 | 1720 | 100RB | Bottom | 10mm | \ | \ | 18.32 | 19.50 | 0.691 | **0.91** | 0.363 | **0.48** | 0.18 |
| | | | | | | | | | | | | | | | | |
| 5 | Head | LTE Band4 | 20300 | 1745 | 1RB-High | Cheek Left | 0mm | \ | Note2 | 14.74 | 15.50 | 0.248 | **0.30** | 0.123 | **0.15** | 0.06 |
| 5 | Head | LTE Band4 | 20300 | 1745 | 1RB-High | Tilt Left | 0mm | \ | Note2 | 14.74 | 15.50 | 0.287 | **0.34** | 0.137 | **0.16** | 0.03 |
| 5 | Head | LTE Band4 | 20300 | 1745 | 1RB-High | Cheek Right | 0mm | \ | Note2 | 14.74 | 15.50 | 0.362 | **0.43** | 0.170 | **0.20** | -0.16 |
| 5 | Head | LTE Band4 | 20300 | 1745 | 1RB-High | Tilt Right | 0mm | FIG A.9 | Note2 | 14.74 | 15.50 | 0.472 | **0.56** | 0.211 | **0.25** | 0.11 |
| 5 | Head | LTE Band4 | 20300 | 1745 | 50RB-High | Cheek Left | 0mm | \ | Note2 | 14.71 | 15.50 | 0.253 | **0.30** | 0.124 | **0.15** | 0.15 |
| 5 | Head | LTE Band4 | 20300 | 1745 | 50RB-High | Tilt Left | 0mm | \ | Note2 | 14.71 | 15.50 | 0.303 | **0.36** | 0.143 | **0.17** | 0.19 |
| 5 | Head | LTE Band4 | 20300 | 1745 | 50RB-High | Cheek Right | 0mm | \ | Note2 | 14.71 | 15.50 | 0.337 | **0.40** | 0.160 | **0.19** | 0.02 |
| 5 | Head | LTE Band4 | 20300 | 1745 | 50RB-High | Tilt Right | 0mm | \ | Note2 | 14.71 | 15.50 | 0.460 | **0.55** | 0.204 | **0.24** | 0.15 |
| | | | | | | | | | | | | | | | | |
| 5 | Body | LTE Band4 | 20300 | 1745 | 1RB-High | Front | 10mm | \ | Note2 | 20.32 | 21.00 | 0.377 | **0.44** | 0.201 | **0.24** | -0.07 |
| 5 | Body | LTE Band4 | 20300 | 1745 | 1RB-High | Rear | 10mm | \ | Note2 | 20.32 | 21.00 | 0.438 | **0.51** | 0.247 | **0.29** | 0.18 |
| 5 | Body | LTE Band4 | 20300 | 1745 | 1RB-High | Left | 10mm | \ | Note2 | 20.32 | 21.00 | 0.115 | **0.13** | 0.068 | **0.08** | -0.14 |
| 5 | Body | LTE Band4 | 20300 | 1745 | 1RB-High | Top | 10mm | \ | Note2 | 20.32 | 21.00 | 0.569 | **0.67** | 0.285 | **0.33** | 0.13 |
| 5 | Body | LTE Band4 | 20300 | 1745 | 50RB-Middle | Front | 10mm | \ | Note2 | 20.29 | 21.00 | 0.380 | **0.45** | 0.203 | **0.24** | -0.15 |
| 5 | Body | LTE Band4 | 20300 | 1745 | 50RB-Middle | Rear | 10mm | \ | Note2 | 20.29 | 21.00 | 0.416 | **0.49** | 0.229 | **0.27** | -0.18 |
| 5 | Body | LTE Band4 | 20300 | 1745 | 50RB-Middle | Left | 10mm | \ | Note2 | 20.29 | 21.00 | 0.111 | **0.13** | 0.067 | **0.08** | 0.11 |
| 5 | Body | LTE Band4 | 20300 | 1745 | 50RB-Middle | Top | 10mm | \ | Note2 | 20.29 | 21.00 | 0.546 | **0.64** | 0.274 | **0.32** | 0.04 |
| | | | | | | | | | | | | | | | | |
| 5 | Body | LTE Band4 | 20300 | 1745 | 1RB-High | Front | 15mm | \ | Note2 | 22.22 | 23.00 | 0.251 | **0.30** | 0.143 | **0.17** | 0.13 |
| 5 | Body | LTE Band4 | 20300 | 1745 | 1RB-High | Rear | 15mm | \ | Note2 | 22.22 | 23.00 | 0.356 | **0.43** | 0.207 | **0.25** | -0.07 |
| 5 | Body | LTE Band4 | 20300 | 1745 | 50RB-Middle | Front | 15mm | \ | Note2 | 22.19 | 23.00 | 0.197 | **0.24** | 0.113 | **0.14** | -0.12 |
| 5 | Body | LTE Band4 | 20300 | 1745 | 50RB-Middle | Rear | 15mm | \ | Note2 | 22.19 | 23.00 | 0.271 | **0.33** | 0.159 | **0.19** | -0.11 |
| | | | | | | | | | | | | | | | | |
| 1 | Head | LTE Band5 | 20600 | 844 | 1RB-Low | Cheek Left | 0mm | FIG A.11 | \ | 23.75 | 25.00 | 0.308 | **0.41** | 0.243 | **0.32** | 0.15 |
| 1 | Head | LTE Band5 | 20600 | 844 | 1RB-Low | Tilt Left | 0mm | \ | \ | 23.75 | 25.00 | 0.204 | **0.27** | 0.169 | **0.23** | 0.12 |
| 1 | Head | LTE Band5 | 20600 | 844 | 1RB-Low | Cheek Right | 0mm | \ | \ | 23.75 | 25.00 | 0.303 | **0.40** | 0.243 | **0.32** | 0.19 |
| 1 | Head | LTE Band5 | 20600 | 844 | 1RB-Low | Tilt Right | 0mm | \ | \ | 23.75 | 25.00 | 0.217 | **0.29** | 0.177 | **0.24** | 0.10 |
| 1 | Head | LTE Band5 | 20450 | 829 | 25RB-Low | Cheek Left | 0mm | \ | \ | 22.81 | 24.00 | 0.242 | **0.32** | 0.191 | **0.25** | 0.08 |
| 1 | Head | LTE Band5 | 20450 | 829 | 25RB-Low | Tilt Left | 0mm | \ | \ | 22.81 | 24.00 | 0.162 | **0.21** | 0.133 | **0.17** | 0.05 |
| 1 | Head | LTE Band5 | 20450 | 829 | 25RB-Low | Cheek Right | 0mm | \ | \ | 22.81 | 24.00 | 0.239 | **0.31** | 0.192 | **0.25** | 0.04 |
| 1 | Head | LTE Band5 | 20450 | 829 | 25RB-Low | Tilt Right | 0mm | \ | \ | 22.81 | 24.00 | 0.173 | **0.23** | 0.141 | **0.19** | 0.18 |
| | | | | | | | | | | | | | | | | |
| 1 | Body | LTE Band5 | 20600 | 844 | 1RB-Low | Front | 10mm | \ | \ | 23.75 | 25.00 | 0.291 | **0.39** | 0.182 | **0.24** | 0.14 |
| 1 | Body | LTE Band5 | 20600 | 844 | 1RB-Low | Rear | 10mm | FIG A.12 | \ | 23.75 | 25.00 | 0.381 | **0.51** | 0.237 | **0.32** | 0.04 |
| 1 | Body | LTE Band5 | 20600 | 844 | 1RB-Low | Left | 10mm | \ | \ | 23.75 | 25.00 | 0.266 | **0.35** | 0.174 | **0.23** | 0.13 |
| 1 | Body | LTE Band5 | 20600 | 844 | 1RB-Low | Right | 10mm | \ | \ | 23.75 | 25.00 | 0.059 | **0.08** | 0.033 | **0.04** | -0.12 |
| 1 | Body | LTE Band5 | 20600 | 844 | 1RB-Low | Bottom | 10mm | \ | \ | 23.75 | 25.00 | 0.064 | **0.09** | 0.039 | **0.05** | 0.11 |
| 1 | Body | LTE Band5 | 20450 | 829 | 25RB-Low | Front | 10mm | \ | \ | 22.81 | 24.00 | 0.233 | **0.31** | 0.144 | **0.19** | -0.16 |
| 1 | Body | LTE Band5 | 20450 | 829 | 25RB-Low | Rear | 10mm | \ | \ | 22.81 | 24.00 | 0.291 | **0.38** | 0.182 | **0.24** | -0.05 |
| 1 | Body | LTE Band5 | 20450 | 829 | 25RB-Low | Left | 10mm | \ | \ | 22.81 | 24.00 | 0.176 | **0.23** | 0.112 | **0.15** | 0.06 |
| 1 | Body | LTE Band5 | 20450 | 829 | 25RB-Low | Right | 10mm | \ | \ | 22.81 | 24.00 | 0.070 | **0.09** | 0.039 | **0.05** | 0.01 |
| 1 | Body | LTE Band5 | 20450 | 829 | 25RB-Low | Bottom | 10mm | \ | \ | 22.81 | 24.00 | 0.052 | **0.07** | 0.032 | **0.04** | 0.18 |
| | | | | | | | | | | | | | | | | |
| 1 | Head | LTE Band12 | 23130 | 711 | 1RB-Low | Cheek Left | 0mm | \ | \ | 23.75 | 25.00 | 0.233 | **0.31** | 0.184 | **0.25** | -0.02 |
| 1 | Head | LTE Band12 | 23130 | 711 | 1RB-Low | Tilt Left | 0mm | \ | \ | 23.75 | 25.00 | 0.171 | **0.23** | 0.140 | **0.19** | 0.10 |
| 1 | Head | LTE Band12 | 23130 | 711 | 1RB-Low | Cheek Right | 0mm | FIG A.13 | \ | 23.75 | 25.00 | 0.235 | **0.31** | 0.186 | **0.25** | 0.17 |
| 1 | Head | LTE Band12 | 23130 | 711 | 1RB-Low | Tilt Right | 0mm | \ | \ | 23.75 | 25.00 | 0.169 | **0.23** | 0.135 | **0.18** | 0.16 |
| 1 | Head | LTE Band12 | 23060 | 704 | 25RB-Middle | Cheek Left | 0mm | \ | \ | 22.70 | 24.00 | 0.193 | **0.26** | 0.152 | **0.21** | 0.01 |
| 1 | Head | LTE Band12 | 23060 | 704 | 25RB-Middle | Tilt Left | 0mm | \ | \ | 22.70 | 24.00 | 0.141 | **0.19** | 0.114 | **0.15** | 0.01 |
| 1 | Head | LTE Band12 | 23060 | 704 | 25RB-Middle | Cheek Right | 0mm | \ | \ | 22.70 | 24.00 | 0.184 | **0.25** | 0.147 | **0.20** | 0.03 |
| 1 | Head | LTE Band12 | 23060 | 704 | 25RB-Middle | Tilt Right | 0mm | \ | \ | 22.70 | 24.00 | 0.129 | **0.17** | 0.103 | **0.14** | -0.16 |
| | | | | | | | | | | | | | | | | |
| 1 | Body | LTE Band12 | 23130 | 711 | 1RB-Low | Front | 10mm | \ | \ | 23.75 | 25.00 | 0.269 | **0.36** | 0.211 | **0.28** | 0.19 |
| 1 | Body | LTE Band12 | 23130 | 711 | 1RB-Low | Rear | 10mm | FIG A.14 | \ | 23.75 | 25.00 | 0.364 | **0.49** | 0.287 | **0.38** | 0.05 |
| 1 | Body | LTE Band12 | 23130 | 711 | 1RB-Low | Left | 10mm | \ | \ | 23.75 | 25.00 | 0.297 | **0.40** | 0.197 | **0.26** | 0.13 |
| 1 | Body | LTE Band12 | 23130 | 711 | 1RB-Low | Right | 10mm | \ | \ | 23.75 | 25.00 | 0.088 | **0.12** | 0.063 | **0.08** | 0.01 |
| 1 | Body | LTE Band12 | 23130 | 711 | 1RB-Low | Bottom | 10mm | \ | \ | 23.75 | 25.00 | 0.045 | **0.06** | 0.027 | **0.04** | 0.09 |
| 1 | Body | LTE Band12 | 23060 | 704 | 25RB-Middle | Front | 10mm | \ | \ | 22.70 | 24.00 | 0.203 | **0.27** | 0.158 | **0.21** | 0.11 |
| 1 | Body | LTE Band12 | 23060 | 704 | 25RB-Middle | Rear | 10mm | \ | \ | 22.70 | 24.00 | 0.278 | **0.38** | 0.218 | **0.29** | 0.16 |
| 1 | Body | LTE Band12 | 23060 | 704 | 25RB-Middle | Left | 10mm | \ | \ | 22.70 | 24.00 | 0.228 | **0.31** | 0.152 | **0.21** | 0.14 |
| 1 | Body | LTE Band12 | 23060 | 704 | 25RB-Middle | Right | 10mm | \ | \ | 22.70 | 24.00 | 0.069 | **0.09** | 0.049 | **0.07** | -0.01 |
| 1 | Body | LTE Band12 | 23060 | 704 | 25RB-Middle | Bottom | 10mm | \ | \ | 22.70 | 24.00 | 0.041 | **0.06** | 0.022 | **0.03** | 0.15 |

| ANT | RF Exposure Conditions | Frequency Band | Channel Number | Frequency (MHz) | Mode/RB | Test setup | Distance | Figure No. | Note | EUT Measured Power (dBm) | Tune up (dBm) | Measured SAR 1g (W/kg) | Calculated SAR 1g (W/kg) | Measured SAR 10g (W/kg) | Calculated SAR 10g (W/kg) | Power Drift |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Head | LTE Band13 | 23230 | 782 | 1RB- Middle | Cheek Left | 0mm | \ | \ | 23.90 | 25.00 | 0.265 | **0.34** | 0.202 | **0.26** | -0.14 |
| 1 | Head | LTE Band13 | 23230 | 782 | 1RB- Middle | Tilt Left | 0mm | \ | \ | 23.90 | 25.00 | 0.165 | **0.21** | 0.135 | **0.17** | -0.03 |
| 1 | Head | LTE Band13 | 23230 | 782 | 1RB- Middle | Cheek Right | 0mm | FIG A.15 | \ | 23.90 | 25.00 | 0.277 | **0.36** | 0.217 | **0.28** | 0.15 |
| 1 | Head | LTE Band13 | 23230 | 782 | 1RB- Middle | Tilt Right | 0mm | \ | \ | 23.90 | 25.00 | 0.143 | **0.18** | 0.115 | **0.15** | -0.05 |
| 1 | Head | LTE Band13 | 23230 | 782 | 25RB-Middle | Cheek Left | 0mm | \ | \ | 22.91 | 24.00 | 0.223 | **0.29** | 0.171 | **0.22** | -0.14 |
| 1 | Head | LTE Band13 | 23230 | 782 | 25RB-Middle | Tilt Left | 0mm | \ | \ | 22.91 | 24.00 | 0.150 | **0.19** | 0.121 | **0.16** | -0.10 |
| 1 | Head | LTE Band13 | 23230 | 782 | 25RB-Middle | Cheek Right | 0mm | \ | \ | 22.91 | 24.00 | 0.223 | **0.29** | 0.175 | **0.22** | 0.10 |
| 1 | Head | LTE Band13 | 23230 | 782 | 25RB-Middle | Tilt Right | 0mm | \ | \ | 22.91 | 24.00 | 0.116 | **0.15** | 0.094 | **0.12** | -0.03 |
| | | | | | | | | | | | | | | | | |
| 1 | Body | LTE Band13 | 23230 | 782 | 1RB- Middle | Front | 10mm | \ | \ | 23.90 | 25.00 | 0.258 | **0.33** | 0.186 | **0.24** | 0.02 |
| 1 | Body | LTE Band13 | 23230 | 782 | 1RB- Middle | Rear | 10mm | FIG A.16 | \ | 23.90 | 25.00 | 0.365 | **0.47** | 0.238 | **0.31** | -0.02 |
| 1 | Body | LTE Band13 | 23230 | 782 | 1RB- Middle | Left | 10mm | \ | \ | 23.90 | 25.00 | 0.262 | **0.34** | 0.173 | **0.22** | -0.09 |
| 1 | Body | LTE Band13 | 23230 | 782 | 1RB- Middle | Right | 10mm | \ | \ | 23.90 | 25.00 | 0.071 | **0.09** | 0.046 | **0.06** | -0.03 |
| 1 | Body | LTE Band13 | 23230 | 782 | 1RB- Middle | Bottom | 10mm | \ | \ | 23.90 | 25.00 | 0.047 | **0.06** | 0.027 | **0.03** | 0.15 |
| 1 | Body | LTE Band13 | 23230 | 782 | 25RB-Middle | Front | 10mm | \ | \ | 22.91 | 24.00 | 0.206 | **0.26** | 0.150 | **0.19** | -0.02 |
| 1 | Body | LTE Band13 | 23230 | 782 | 25RB-Middle | Rear | 10mm | \ | \ | 22.91 | 24.00 | 0.300 | **0.39** | 0.192 | **0.25** | 0.14 |
| 1 | Body | LTE Band13 | 23230 | 782 | 25RB-Middle | Left | 10mm | \ | \ | 22.91 | 24.00 | 0.190 | **0.24** | 0.124 | **0.16** | 0.10 |
| 1 | Body | LTE Band13 | 23230 | 782 | 25RB-Middle | Right | 10mm | \ | \ | 22.91 | 24.00 | 0.066 | **0.08** | 0.044 | **0.06** | -0.03 |
| 1 | Body | LTE Band13 | 23230 | 782 | 25RB-Middle | Bottom | 10mm | \ | \ | 22.91 | 24.00 | 0.052 | **0.07** | 0.031 | **0.04** | 0.02 |
| | | | | | | | | | | | | | | | | |
| 1 | Head | LTE Band66 | 132072 | 1720 | 1RB-Low | Cheek Left | 0mm | \ | \ | 23.09 | 24.50 | 0.136 | **0.19** | 0.092 | **0.13** | -0.14 |
| 1 | Head | LTE Band66 | 132072 | 1720 | 1RB-Low | Tilt Left | 0mm | \ | \ | 23.09 | 24.50 | 0.135 | **0.19** | 0.084 | **0.12** | -0.11 |
| 1 | Head | LTE Band66 | 132072 | 1720 | 1RB-Low | Cheek Right | 0mm | \ | \ | 23.09 | 24.50 | 0.175 | **0.24** | 0.113 | **0.16** | 0.12 |
| 1 | Head | LTE Band66 | 132072 | 1720 | 1RB-Low | Tilt Right | 0mm | \ | \ | 23.09 | 24.50 | 0.099 | **0.14** | 0.065 | **0.09** | 0.14 |
| 1 | Head | LTE Band66 | 132072 | 1720 | 50RB-Middle | Cheek Left | 0mm | \ | \ | 22.03 | 23.50 | 0.120 | **0.17** | 0.079 | **0.11** | -0.17 |
| 1 | Head | LTE Band66 | 132072 | 1720 | 50RB-Middle | Tilt Left | 0mm | \ | \ | 22.03 | 23.50 | 0.108 | **0.15** | 0.068 | **0.10** | 0.12 |
| 1 | Head | LTE Band66 | 132072 | 1720 | 50RB-Middle | Cheek Right | 0mm | \ | \ | 22.03 | 23.50 | 0.155 | **0.22** | 0.099 | **0.14** | -0.15 |
| 1 | Head | LTE Band66 | 132072 | 1720 | 50RB-Middle | Tilt Right | 0mm | \ | \ | 22.03 | 23.50 | 0.077 | **0.11** | 0.050 | **0.07** | -0.01 |
| | | | | | | | | | | | | | | | | |
| 1 | Body | LTE Band66 | 132322 | 1745 | 1RB-Low | Front | 10mm | \ | Note1 | 18.45 | 19.50 | 0.229 | **0.29** | 0.129 | **0.16** | 0.18 |
| 1 | Body | LTE Band66 | 132322 | 1745 | 1RB-Low | Rear | 10mm | \ | Note1 | 18.45 | 19.50 | 0.584 | **0.74** | 0.321 | **0.41** | 0.02 |
| 1 | Body | LTE Band66 | 132322 | 1745 | 1RB-Low | Left | 10mm | \ | Note1 | 18.45 | 19.50 | 0.050 | **0.06** | 0.026 | **0.03** | -0.10 |
| 1 | Body | LTE Band66 | 132322 | 1745 | 1RB-Low | Right | 10mm | \ | Note1 | 18.45 | 19.50 | 0.047 | **0.06** | 0.027 | **0.03** | 0.02 |
| 1 | Body | LTE Band66 | 132572 | 1770 | 1RB-Low | Bottom | 10mm | \ | Note1 | 18.41 | 19.50 | 0.670 | **0.86** | 0.345 | **0.44** | 0.18 |
| 1 | Body | LTE Band66 | 132322 | 1745 | 1RB-Low | Bottom | 10mm | \ | Note1 | 18.45 | 19.50 | 0.719 | **0.92** | 0.374 | **0.48** | -0.11 |
| 1 | Body | LTE Band66 | 132072 | 1720 | 1RB-Low | Bottom | 10mm | FIG A.18 | Note1 | 18.42 | 19.50 | 0.809 | **1.04** | 0.439 | **0.56** | -0.14 |
| 1 | Body | LTE Band66 | 132322 | 1745 | 50RB-High | Front | 10mm | \ | Note1 | 18.36 | 19.50 | 0.215 | **0.28** | 0.121 | **0.16** | 0.02 |
| 1 | Body | LTE Band66 | 132322 | 1745 | 50RB-High | Rear | 10mm | \ | Note1 | 18.36 | 19.50 | 0.527 | **0.69** | 0.273 | **0.35** | 0.04 |
| 1 | Body | LTE Band66 | 132322 | 1745 | 50RB-High | Left | 10mm | \ | Note1 | 18.36 | 19.50 | 0.036 | **0.05** | 0.020 | **0.03** | -0.13 |
| 1 | Body | LTE Band66 | 132322 | 1745 | 50RB-High | Right | 10mm | \ | Note1 | 18.36 | 19.50 | 0.043 | **0.06** | 0.026 | **0.03** | 0.11 |
| 1 | Body | LTE Band66 | 132572 | 1770 | 50RB-High | Bottom | 10mm | \ | Note1 | 18.32 | 19.50 | 0.649 | **0.85** | 0.332 | **0.44** | 0.16 |
| 1 | Body | LTE Band66 | 132322 | 1745 | 50RB-High | Bottom | 10mm | \ | Note1 | 18.36 | 19.50 | 0.685 | **0.89** | 0.358 | **0.47** | 0.11 |
| 1 | Body | LTE Band66 | 132072 | 1720 | 50RB-High | Bottom | 10mm | \ | Note1 | 18.35 | 19.50 | 0.739 | **0.96** | 0.381 | **0.50** | 0.19 |
| 1 | Body | LTE Band66 | 132072 | 1720 | 100RB | Bottom | 10mm | \ | Note1 | 18.33 | 19.50 | 0.722 | **0.95** | 0.376 | **0.49** | -0.18 |
| | | | | | | | | | | | | | | | | |
| 1 | Body | LTE Band66 | 132322 | 1745 | 1RB-Low | Front | 10mm | \ | Note2 | 16.77 | 17.50 | 0.168 | **0.20** | 0.098 | **0.12** | -0.17 |
| 1 | Body | LTE Band66 | 132322 | 1745 | 1RB-Low | Rear | 10mm | \ | Note2 | 16.77 | 17.50 | 0.393 | **0.46** | 0.213 | **0.25** | -0.11 |
| 1 | Body | LTE Band66 | 132322 | 1745 | 1RB-Low | Left | 10mm | \ | Note2 | 16.77 | 17.50 | 0.037 | **0.04** | 0.020 | **0.02** | 0.19 |
| 1 | Body | LTE Band66 | 132322 | 1745 | 1RB-Low | Right | 10mm | \ | Note2 | 16.77 | 17.50 | 0.034 | **0.04** | 0.021 | **0.02** | -0.03 |
| 1 | Body | LTE Band66 | 132322 | 1745 | 1RB-Low | Bottom | 10mm | \ | Note2 | 16.77 | 17.50 | 0.527 | **0.62** | 0.285 | **0.34** | -0.13 |
| 1 | Body | LTE Band66 | 132322 | 1745 | 50RB-High | Front | 10mm | \ | Note2 | 16.74 | 17.50 | 0.158 | **0.19** | 0.092 | **0.11** | -0.06 |
| 1 | Body | LTE Band66 | 132322 | 1745 | 50RB-High | Rear | 10mm | \ | Note2 | 16.74 | 17.50 | 0.362 | **0.43** | 0.197 | **0.23** | -0.10 |
| 1 | Body | LTE Band66 | 132322 | 1745 | 50RB-High | Left | 10mm | \ | Note2 | 16.74 | 17.50 | 0.026 | **0.03** | 0.015 | **0.02** | -0.16 |
| 1 | Body | LTE Band66 | 132322 | 1745 | 50RB-High | Right | 10mm | \ | Note2 | 16.74 | 17.50 | 0.032 | **0.04** | 0.020 | **0.02** | -0.02 |
| 1 | Body | LTE Band66 | 132322 | 1745 | 50RB-High | Bottom | 10mm | \ | Note2 | 16.74 | 17.50 | 0.502 | **0.60** | 0.273 | **0.33** | -0.02 |
| | | | | | | | | | | | | | | | | |
| 5 | Head | LTE Band66 | 132572 | 1770 | 1RB-High | Cheek Left | 0mm | \ | Note2 | 14.75 | 15.50 | 0.287 | **0.34** | 0.141 | **0.17** | 0.19 |
| 5 | Head | LTE Band66 | 132572 | 1770 | 1RB-High | Tilt Left | 0mm | \ | Note2 | 14.75 | 15.50 | 0.333 | **0.40** | 0.157 | **0.19** | -0.08 |
| 5 | Head | LTE Band66 | 132572 | 1770 | 1RB-High | Cheek Right | 0mm | \ | Note2 | 14.75 | 15.50 | 0.419 | **0.50** | 0.195 | **0.23** | -0.11 |
| 5 | Head | LTE Band66 | 132572 | 1770 | 1RB-High | Tilt Right | 0mm | FIG A.17 | Note2 | 14.75 | 15.50 | 0.547 | **0.65** | 0.242 | **0.29** | -0.07 |
| 5 | Head | LTE Band66 | 132572 | 1770 | 50RB-High | Cheek Left | 0mm | \ | Note2 | 14.73 | 15.50 | 0.293 | **0.35** | 0.142 | **0.17** | 0.12 |
| 5 | Head | LTE Band66 | 132572 | 1770 | 50RB-High | Tilt Left | 0mm | \ | Note2 | 14.73 | 15.50 | 0.351 | **0.42** | 0.164 | **0.20** | -0.17 |
| 5 | Head | LTE Band66 | 132572 | 1770 | 50RB-High | Cheek Right | 0mm | \ | Note2 | 14.73 | 15.50 | 0.390 | **0.47** | 0.184 | **0.22** | 0.05 |
| 5 | Head | LTE Band66 | 132572 | 1770 | 50RB-High | Tilt Right | 0mm | \ | Note2 | 14.73 | 15.50 | 0.533 | **0.64** | 0.234 | **0.28** | -0.14 |
| | | | | | | | | | | | | | | | | |
| 5 | Body | LTE Band66 | 132572 | 1770 | 1RB-High | Front | 10mm | \ | Note2 | 20.22 | 21.00 | 0.382 | **0.46** | 0.202 | **0.24** | -0.15 |
| 5 | Body | LTE Band66 | 132572 | 1770 | 1RB-High | Rear | 10mm | \ | Note2 | 20.22 | 21.00 | 0.507 | **0.61** | 0.279 | **0.33** | 0.08 |
| 5 | Body | LTE Band66 | 132572 | 1770 | 1RB-High | Left | 10mm | \ | Note2 | 20.22 | 21.00 | 0.116 | **0.14** | 0.068 | **0.08** | -0.11 |
| 5 | Body | LTE Band66 | 132572 | 1770 | 1RB-High | Top | 10mm | \ | Note2 | 20.22 | 21.00 | 0.576 | **0.69** | 0.287 | **0.34** | 0.12 |
| 5 | Body | LTE Band66 | 132572 | 1770 | 50RB-High | Front | 10mm | \ | Note2 | 20.14 | 21.00 | 0.385 | **0.47** | 0.204 | **0.25** | -0.04 |
| 5 | Body | LTE Band66 | 132572 | 1770 | 50RB-High | Rear | 10mm | \ | Note2 | 20.14 | 21.00 | 0.482 | **0.59** | 0.259 | **0.32** | 0.03 |
| 5 | Body | LTE Band66 | 132572 | 1770 | 50RB-High | Left | 10mm | \ | Note2 | 20.14 | 21.00 | 0.112 | **0.14** | 0.067 | **0.08** | -0.05 |
| 5 | Body | LTE Band66 | 132572 | 1770 | 50RB-High | Top | 10mm | \ | Note2 | 20.14 | 21.00 | 0.553 | **0.67** | 0.276 | **0.34** | -0.03 |
| | | | | | | | | | | | | | | | | |
| 5 | Body | LTE Band66 | 132572 | 1770 | 1RB-High | Front | 15mm | \ | Note2 | 22.32 | 23.00 | 0.346 | **0.40** | 0.201 | **0.24** | -0.02 |
| 5 | Body | LTE Band66 | 132572 | 1770 | 1RB-High | Rear | 15mm | \ | Note2 | 22.32 | 23.00 | 0.490 | **0.57** | 0.290 | **0.34** | 0.09 |
| 5 | Body | LTE Band66 | 132572 | 1770 | 50RB-Middle | Front | 15mm | \ | Note2 | 22.29 | 23.00 | 0.271 | **0.32** | 0.158 | **0.19** | 0.05 |
| 5 | Body | LTE Band66 | 132572 | 1770 | 50RB-Middle | Rear | 15mm | \ | Note2 | 22.29 | 23.00 | 0.373 | **0.44** | 0.223 | **0.26** | -0.16 |

## 14.2 SAR results for 5G NR

| ANT | RF Exposure Conditions | Frequency Band | Channel Number | Frequency (MHz) | Mode/RB | Test setup | Distance | Figure No. | EUT Measured Power (dBm) | Tune up (dBm) | Measured SAR 1g (W/kg) | Calculated SAR 1g (W/kg) | Measured SAR 10g (W/kg) | Calculated SAR 10g (W/kg) | Power Drift |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | Head | N2 | 376000 | 1880 | DFT-s-OFDM QPSK | Cheek Left | 0mm | \ | 13.71 | 14.50 | 0.307 | **0.37** | 0.149 | **0.18** | 0.17 |
| 5 | Head | N2 | 376000 | 1880 | DFT-s-OFDM QPSK | Tilt Left | 0mm | \ | 13.71 | 14.50 | 0.491 | **0.59** | 0.228 | **0.27** | 0.06 |
| 5 | Head | N2 | 376000 | 1880 | DFT-s-OFDM QPSK | Cheek Right | 0mm | \ | 13.71 | 14.50 | 0.389 | **0.47** | 0.179 | **0.21** | 0.18 |
| 5 | Head | N2 | 381500 | 1907.5 | DFT-s-OFDM QPSK | Tilt Right | 0mm | \ | 13.69 | 14.50 | 0.508 | **0.61** | 0.226 | **0.27** | -0.15 |
| 5 | Head | N2 | 376000 | 1880 | DFT-s-OFDM QPSK | Tilt Right | 0mm | FIG A.19 | 13.71 | 14.50 | 0.530 | 0.64 | 0.236 | **0.28** | 0.12 |
| 5 | Head | N2 | 370500 | 1852.5 | DFT-s-OFDM QPSK | Tilt Right | 0mm | \ | 13.66 | 14.50 | 0.515 | **0.62** | 0.230 | **0.28** | -0.06 |
| 5 | Head | N2 | 376000 | 1880 | CP-OFDM QPSK | Tilt Right | 0mm | \ | 13.66 | 14.50 | 0.502 | **0.61** | 0.221 | **0.27** | 0.18 |
| | | | | | | | | | | | | | | | |
| 5 | Body | N2 | 376000 | 1880 | DFT-s-OFDM QPSK | Front | 10mm | \ | 17.46 | 18.00 | 0.092 | **0.10** | 0.050 | **0.06** | 0.12 |
| 5 | Body | N2 | 376000 | 1880 | DFT-s-OFDM QPSK | Rear | 10mm | \ | 17.46 | 18.00 | 0.373 | **0.42** | 0.192 | **0.22** | -0.12 |
| 5 | Body | N2 | 376000 | 1880 | DFT-s-OFDM QPSK | Left | 10mm | \ | 17.46 | 18.00 | 0.033 | **0.04** | 0.018 | **0.02** | -0.13 |
| 5 | Body | N2 | 381500 | 1907.5 | DFT-s-OFDM QPSK | Top | 10mm | \ | 17.43 | 18.00 | 0.436 | **0.50** | 0.200 | **0.23** | 0.17 |
| 5 | Body | N2 | 376000 | 1880 | DFT-s-OFDM QPSK | Top | 10mm | \ | 17.46 | 18.00 | 0.450 | 0.51 | 0.219 | **0.25** | -0.13 |
| 5 | Body | N2 | 370500 | 1852.5 | DFT-s-OFDM QPSK | Top | 10mm | \ | 17.40 | 18.00 | 0.398 | **0.46** | 0.176 | **0.20** | 0.10 |
| 5 | Body | N2 | 376000 | 1880 | CP-OFDM QPSK | Top | 10mm | \ | 17.41 | 18.00 | 0.439 | **0.50** | 0.211 | **0.24** | -0.18 |
| | | | | | | | | | | | | | | | |
| 5 | Body | N2 | 376000 | 1880 | DFT-s-OFDM QPSK | Front | 15mm | \ | 20.42 | 21.00 | 0.269 | **0.31** | 0.159 | **0.18** | -0.16 |
| 5 | Body | N2 | 381500 | 1907.5 | DFT-s-OFDM QPSK | Rear | 15mm | \ | 20.39 | 21.00 | 0.627 | **0.72** | 0.346 | **0.40** | 0.13 |
| 5 | Body | N2 | 376000 | 1880 | DFT-s-OFDM QPSK | Rear | 15mm | FIG A.20 | 20.42 | 21.00 | 0.665 | 0.76 | 0.376 | **0.43** | 0.15 |
| 5 | Body | N2 | 370500 | 1852.5 | DFT-s-OFDM QPSK | Rear | 15mm | \ | 20.35 | 21.00 | 0.645 | **0.75** | 0.372 | **0.43** | 0.13 |
| 5 | Body | N2 | 376000 | 1880 | CP-OFDM QPSK | Rear | 15mm | \ | 20.38 | 21.00 | 0.637 | **0.73** | 0.355 | **0.41** | -0.09 |
| | | | | | | | | | | | | | | | |
| 1 | Head | N5 | 167300 | 836.5 | DFT-s-OFDM QPSK | Cheek Left | 0mm | \ | 23.68 | 25.00 | 0.279 | **0.38** | 0.220 | **0.30** | -0.05 |
| 1 | Head | N5 | 167300 | 836.5 | DFT-s-OFDM QPSK | Tilt Left | 0mm | \ | 23.68 | 25.00 | 0.174 | **0.24** | 0.142 | **0.19** | 0.05 |
| 1 | Head | N5 | 169300 | 846.5 | DFT-s-OFDM QPSK | Cheek Right | 0mm | \ | 23.62 | 25.00 | 0.294 | **0.40** | 0.236 | **0.32** | 0.09 |
| 1 | Head | N5 | 167300 | 836.5 | DFT-s-OFDM QPSK | Cheek Right | 0mm | \ | 23.68 | 25.00 | 0.292 | **0.40** | 0.234 | **0.32** | 0.06 |
| 1 | Head | N5 | 165300 | 826.5 | DFT-s-OFDM QPSK | Cheek Right | 0mm | FIG A.21 | 23.65 | 25.00 | 0.299 | 0.41 | 0.239 | **0.33** | -0.04 |
| 1 | Head | N5 | 167300 | 836.5 | DFT-s-OFDM QPSK | Tilt Right | 0mm | \ | 23.68 | 25.00 | 0.189 | **0.26** | 0.156 | **0.21** | -0.03 |
| 1 | Head | N5 | 167300 | 836.5 | CP-OFDM QPSK | Cheek Right | 0mm | \ | 22.27 | 23.50 | 0.274 | **0.36** | 0.213 | **0.28** | -0.03 |
| | | | | | | | | | | | | | | | |
| 1 | Body | N5 | 167300 | 836.5 | DFT-s-OFDM QPSK | Front | 10mm | \ | 23.68 | 25.00 | 0.285 | **0.39** | 0.219 | **0.30** | -0.07 |
| 1 | Body | N5 | 169300 | 846.5 | DFT-s-OFDM QPSK | Rear | 10mm | \ | 23.62 | 25.00 | 0.386 | **0.53** | 0.254 | **0.35** | 0.05 |
| 1 | Body | N5 | 167300 | 836.5 | DFT-s-OFDM QPSK | Rear | 10mm | \ | 23.68 | 25.00 | 0.387 | **0.52** | 0.304 | **0.41** | 0.08 |
| 1 | Body | N5 | 165300 | 826.5 | DFT-s-OFDM QPSK | Rear | 10mm | FIG A.22 | 23.65 | 25.00 | 0.392 | 0.53 | 0.305 | **0.42** | -0.15 |
| 1 | Body | N5 | 167300 | 836.5 | DFT-s-OFDM QPSK | Left | 10mm | \ | 23.68 | 25.00 | 0.113 | **0.15** | 0.077 | **0.10** | 0.19 |
| 1 | Body | N5 | 167300 | 836.5 | DFT-s-OFDM QPSK | Right | 10mm | \ | 23.68 | 25.00 | 0.106 | **0.14** | 0.074 | **0.10** | -0.08 |
| 1 | Body | N5 | 167300 | 836.5 | DFT-s-OFDM QPSK | Bottom | 10mm | \ | 23.68 | 25.00 | 0.082 | **0.11** | 0.048 | **0.07** | 0.03 |
| 1 | Body | N5 | 167300 | 836.5 | CP-OFDM QPSK | Rear | 10mm | \ | 22.27 | 25.00 | 0.264 | **0.49** | 0.202 | **0.38** | -0.06 |
| | | | | | | | | | | | | | | | |
| 1 | Head | N66 | 349000 | 1745 | DFT-s-OFDM QPSK | Cheek Left | 0mm | \ | 22.90 | 24.50 | 0.149 | **0.22** | 0.100 | **0.14** | 0.15 |
| 1 | Head | N66 | 349000 | 1745 | DFT-s-OFDM QPSK | Tilt Left | 0mm | \ | 22.90 | 24.50 | 0.114 | **0.16** | 0.077 | **0.11** | 0.10 |
| 1 | Head | N66 | 355500 | 1777.5 | DFT-s-OFDM QPSK | Cheek Right | 0mm | \ | 22.87 | 24.50 | 0.212 | 0.31 | 0.139 | **0.20** | 0.19 |
| 1 | Head | N66 | 349000 | 1745 | DFT-s-OFDM QPSK | Cheek Right | 0mm | \ | 22.90 | 24.50 | 0.198 | **0.29** | 0.129 | **0.19** | 0.12 |
| 1 | Head | N66 | 342500 | 1712.5 | DFT-s-OFDM QPSK | Cheek Right | 0mm | \ | 22.84 | 24.50 | 0.180 | **0.26** | 0.117 | **0.17** | -0.08 |
| 1 | Head | N66 | 349000 | 1745 | DFT-s-OFDM QPSK | Tilt Right | 0mm | \ | 22.90 | 24.50 | 0.110 | **0.16** | 0.075 | **0.11** | 0.16 |
| 1 | Head | N66 | 349000 | 1745 | CP-OFDM QPSK | Cheek Right | 0mm | \ | 21.42 | 23.00 | 0.174 | **0.25** | 0.111 | **0.16** | -0.09 |
| | | | | | | | | | | | | | | | |
| 1 | Body | N66 | 349000 | 1745 | DFT-s-OFDM QPSK | Front | 10mm | \ | 15.98 | 17.00 | 0.126 | **0.16** | 0.074 | **0.09** | 0.18 |
| 1 | Body | N66 | 349000 | 1745 | DFT-s-OFDM QPSK | Rear | 10mm | \ | 15.98 | 17.00 | 0.330 | **0.42** | 0.181 | **0.23** | 0.02 |
| 1 | Body | N66 | 349000 | 1745 | DFT-s-OFDM QPSK | Left | 10mm | \ | 15.98 | 17.00 | 0.060 | **0.08** | 0.032 | **0.04** | -0.19 |
| 1 | Body | N66 | 349000 | 1745 | DFT-s-OFDM QPSK | Right | 10mm | \ | 15.98 | 17.00 | 0.051 | **0.06** | 0.027 | **0.03** | -0.19 |
| 1 | Body | N66 | 355500 | 1777.5 | DFT-s-OFDM QPSK | Bottom | 10mm | \ | 15.96 | 17.00 | 0.329 | **0.42** | 0.181 | **0.23** | -0.14 |
| 1 | Body | N66 | 349000 | 1745 | DFT-s-OFDM QPSK | Bottom | 10mm | \ | 15.98 | 17.00 | 0.422 | **0.53** | 0.233 | **0.29** | 0.14 |
| 1 | Body | N66 | 342500 | 1712.5 | DFT-s-OFDM QPSK | Bottom | 10mm | \ | 15.94 | 17.00 | 0.508 | 0.65 | 0.281 | **0.36** | 0.12 |
| 1 | Body | N66 | 349000 | 1745 | CP-OFDM 256QAM | Bottom | 10mm | \ | 15.97 | 17.00 | 0.417 | **0.53** | 0.225 | **0.29** | 0.14 |
| | | | | | | | | | | | | | | | |
| 5 | Head | N66 | 349000 | 1745 | DFT-s-OFDM QPSK | Cheek Left | 0mm | \ | 15.64 | 16.50 | 0.251 | **0.31** | 0.131 | **0.16** | -0.02 |
| 5 | Head | N66 | 349000 | 1745 | DFT-s-OFDM QPSK | Tilt Left | 0mm | \ | 15.64 | 16.50 | 0.365 | **0.44** | 0.181 | **0.22** | -0.04 |
| 5 | Head | N66 | 349000 | 1745 | DFT-s-OFDM QPSK | Cheek Right | 0mm | \ | 15.64 | 16.50 | 0.321 | **0.39** | 0.151 | **0.18** | 0.17 |
| 5 | Head | N66 | 355500 | 1777.5 | DFT-s-OFDM QPSK | Tilt Right | 0mm | \ | 15.63 | 16.50 | 0.516 | **0.63** | 0.234 | **0.29** | -0.05 |
| 5 | Head | N66 | 349000 | 1745 | DFT-s-OFDM QPSK | Tilt Right | 0mm | \ | 15.64 | 16.50 | 0.470 | **0.57** | 0.215 | **0.26** | 0.09 |
| 5 | Head | N66 | 342500 | 1712.5 | DFT-s-OFDM QPSK | Tilt Right | 0mm | FIG A.23 | 15.60 | 16.50 | 0.517 | 0.64 | 0.235 | **0.29** | -0.15 |
| 5 | Head | N66 | 349000 | 1745 | CP-OFDM 16QAM | Tilt Right | 0mm | \ | 15.63 | 16.50 | 0.452 | **0.55** | 0.203 | **0.25** | -0.08 |
| | | | | | | | | | | | | | | | |
| 5 | Body | N66 | 349000 | 1745 | DFT-s-OFDM QPSK | Front | 10mm | \ | 19.17 | 20.00 | 0.189 | **0.23** | 0.098 | **0.12** | 0.16 |
| 5 | Body | N66 | 349000 | 1745 | DFT-s-OFDM QPSK | Rear | 10mm | \ | 19.17 | 20.00 | 0.364 | **0.44** | 0.205 | **0.25** | -0.03 |
| 5 | Body | N66 | 349000 | 1745 | DFT-s-OFDM QPSK | Left | 10mm | \ | 19.17 | 20.00 | 0.093 | **0.11** | 0.052 | **0.06** | 0.15 |
| 5 | Body | N66 | 355500 | 1777.5 | DFT-s-OFDM QPSK | Top | 10mm | FIG A.24 | 19.15 | 20.00 | 0.570 | 0.69 | 0.289 | **0.35** | 0.09 |
| 5 | Body | N66 | 349000 | 1745 | DFT-s-OFDM QPSK | Top | 10mm | \ | 19.17 | 20.00 | 0.490 | **0.59** | 0.250 | **0.30** | 0.14 |
| 5 | Body | N66 | 342500 | 1712.5 | DFT-s-OFDM QPSK | Top | 10mm | \ | 19.12 | 20.00 | 0.380 | **0.47** | 0.192 | **0.24** | 0.11 |
| 5 | Body | N66 | 349000 | 1745 | CP-OFDM 16QAM | Top | 10mm | \ | 19.16 | 20.00 | 0.448 | **0.54** | 0.226 | **0.27** | 0.18 |
| | | | | | | | | | | | | | | | |
| 5 | Body | N66 | 349000 | 1745 | DFT-s-OFDM QPSK | Front | 15mm | \ | 21.26 | 22.00 | 0.317 | **0.38** | 0.191 | **0.23** | 0.01 |
| 5 | Body | N66 | 355500 | 1777.5 | DFT-s-OFDM QPSK | Rear | 15mm | \ | 21.24 | 22.00 | 0.501 | 0.60 | 0.296 | **0.35** | 0.15 |
| 5 | Body | N66 | 349000 | 1745 | DFT-s-OFDM QPSK | Rear | 15mm | \ | 21.26 | 22.00 | 0.477 | **0.57** | 0.287 | **0.34** | -0.05 |
| 5 | Body | N66 | 342500 | 1712.5 | DFT-s-OFDM QPSK | Rear | 15mm | \ | 21.20 | 22.00 | 0.478 | **0.57** | 0.285 | **0.34** | 0.13 |
| 5 | Body | N66 | 349000 | 1745 | CP-OFDM 16QAM | Rear | 15mm | \ | 21.33 | 22.00 | 0.448 | **0.52** | 0.265 | **0.31** | 0.13 |

| ANT | RF Exposure Conditions | Frequency Band | Channel Number | Frequency (MHz) | Mode/RB | Test setup | Distance | Figure No. | EUT Measured Power (dBm) | Tune up (dBm) | Measured SAR 1g (W/kg) | Calculated SAR 1g (W/kg) | Measured SAR 10g (W/kg) | Calculated SAR 10g (W/kg) | Power Drift |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | Head | N77-L PC2 | 633334 | 3500.01 | DFT-s-OFDM QPSK | Cheek Left | 0mm | \ | 16.97 | 18.50 | 0.154 | **0.22** | 0.078 | **0.11** | 0.06 |
| 4 | Head | N77-L PC2 | 633334 | 3500.01 | DFT-s-OFDM QPSK | Tilt Left | 0mm | \ | 16.97 | 18.50 | 0.118 | **0.17** | 0.052 | **0.07** | 0.01 |
| 4 | Head | N77-L PC2 | 636332 | 3544.98 | DFT-s-OFDM QPSK | Cheek Right | 0mm | \ | 16.94 | 18.50 | 0.394 | **0.56** | 0.171 | **0.24** | 0.07 |
| 4 | Head | N77-L PC2 | 633334 | 3500.01 | DFT-s-OFDM QPSK | Cheek Right | 0mm | \ | 16.97 | 18.50 | 0.390 | **0.55** | 0.171 | **0.24** | -0.04 |
| 4 | Head | N77-L PC2 | 630334 | 3445.01 | DFT-s-OFDM QPSK | Cheek Right | 0mm | \ | 16.84 | 18.50 | 0.428 | **0.63** | 0.185 | **0.27** | 0.09 |
| 4 | Head | N77-L PC2 | 633334 | 3500.01 | DFT-s-OFDM QPSK | Tilt Right | 0mm | \ | 16.97 | 18.50 | 0.326 | **0.46** | 0.137 | **0.19** | -0.13 |
| 4 | Head | N77-L PC2 | 633334 | 3500.01 | CP-OFDM QPSK | Cheek Right | 0mm | \ | 16.89 | 18.50 | 0.366 | **0.53** | 0.164 | **0.24** | 0.18 |
| | | | | | | | | | | | | | | | |
| 4 | Body | N77-L PC2 | 633334 | 3500.01 | DFT-s-OFDM QPSK | Front | 10mm | \ | 20.86 | 22.50 | 0.200 | **0.29** | 0.100 | **0.15** | 0.06 |
| 4 | Body | N77-L PC2 | 633334 | 3500.01 | DFT-s-OFDM QPSK | Rear | 10mm | \ | 20.86 | 22.50 | 0.364 | **0.53** | 0.164 | **0.24** | -0.13 |
| 4 | Body | N77-L PC2 | 636332 | 3544.98 | DFT-s-OFDM QPSK | Left | 10mm | \ | 20.83 | 22.50 | 0.432 | **0.63** | 0.192 | **0.28** | 0.14 |
| 4 | Body | N77-L PC2 | 633334 | 3500.01 | DFT-s-OFDM QPSK | Left | 10mm | \ | 20.86 | 22.50 | 0.415 | **0.61** | 0.182 | **0.27** | 0.14 |
| 4 | Body | N77-L PC2 | 630334 | 3445.01 | DFT-s-OFDM QPSK | Left | 10mm | \ | 20.79 | 22.50 | 0.442 | **0.66** | 0.195 | **0.29** | -0.12 |
| 4 | Body | N77-L PC2 | 633334 | 3500.01 | DFT-s-OFDM QPSK | Top | 10mm | \ | 20.86 | 22.50 | 0.078 | **0.11** | 0.037 | **0.05** | 0.04 |
| 4 | Body | N77-L PC2 | 633334 | 3500.01 | CP-OFDM 64QAM | Left | 10mm | \ | 20.72 | 22.50 | 0.386 | **0.58** | 0.171 | **0.26** | -0.05 |
| | | | | | | | | | | | | | | | |
| 4 | Body | N77-L PC2 | 633334 | 3500.01 | DFT-s-OFDM QPSK | Front | 15mm | \ | 24.95 | 25.00 | 0.395 | **0.40** | 0.181 | **0.18** | 0.15 |
| 4 | Body | N77-L PC2 | 636332 | 3544.98 | DFT-s-OFDM QPSK | Rear | 15mm | \ | 24.92 | 25.00 | 0.482 | **0.49** | 0.236 | **0.24** | 0.04 |
| 4 | Body | N77-L PC2 | 633334 | 3500.01 | DFT-s-OFDM QPSK | Rear | 15mm | \ | 24.95 | 25.00 | 0.533 | **0.54** | 0.239 | **0.24** | 0.01 |
| 4 | Body | N77-L PC2 | 630334 | 3445.01 | DFT-s-OFDM QPSK | Rear | 15mm | \ | 24.91 | 25.00 | 0.542 | **0.55** | 0.249 | **0.25** | 0.08 |
| 4 | Body | N77-L PC2 | 633334 | 3500.01 | CP-OFDM QPSK | Rear | 15mm | \ | 23.79 | 25.00 | 0.411 | **0.54** | 0.182 | **0.24** | 0.11 |
| | | | | | | | | | | | | | | | |
| 4 | Head | N77-H PC2 | 654200 | 3813 | DFT-s-OFDM QPSK | Cheek Left | 0mm | \ | 17.02 | 18.50 | 0.164 | **0.23** | 0.080 | **0.11** | -0.09 |
| 4 | Head | N77-H PC2 | 654200 | 3813 | DFT-s-OFDM QPSK | Tilt Left | 0mm | \ | 17.02 | 18.50 | 0.229 | **0.32** | 0.100 | **0.14** | -0.11 |
| 4 | Head | N77-H PC2 | 665000 | 3975 | DFT-s-OFDM QPSK | Cheek Right | 0mm | \ | 16.92 | 18.50 | 0.326 | **0.47** | 0.133 | **0.19** | -0.03 |
| 4 | Head | N77-H PC2 | 661400 | 3921 | DFT-s-OFDM QPSK | Cheek Right | 0mm | \ | 16.88 | 18.50 | 0.379 | **0.55** | 0.158 | **0.23** | 0.12 |
| 4 | Head | N77-H PC2 | 657800 | 3867 | DFT-s-OFDM QPSK | Cheek Right | 0mm | \ | 16.99 | 18.50 | 0.462 | **0.65** | 0.192 | **0.27** | 0.16 |
| 4 | Head | N77-H PC2 | 654200 | 3813 | DFT-s-OFDM QPSK | Cheek Right | 0mm | \ | 17.02 | 18.50 | 0.497 | **0.70** | 0.206 | **0.29** | 0.07 |
| 4 | Head | N77-H PC2 | 650600 | 3759 | DFT-s-OFDM QPSK | Cheek Right | 0mm | FIG A.25 | 16.83 | 18.50 | 0.513 | **0.75** | 0.216 | **0.32** | 0.01 |
| 4 | Head | N77-H PC2 | 647000 | 3705 | DFT-s-OFDM QPSK | Cheek Right | 0mm | \ | 16.74 | 18.50 | 0.457 | **0.69** | 0.193 | **0.29** | 0.01 |
| 4 | Head | N77-H PC2 | 654200 | 3813 | DFT-s-OFDM QPSK | Tilt Right | 0mm | \ | 17.02 | 18.50 | 0.466 | **0.66** | 0.180 | **0.25** | -0.05 |
| 4 | Head | N77-H PC2 | 654200 | 3813 | CP-OFDM 16QAM | Cheek Right | 0mm | \ | 17.00 | 18.50 | 0.442 | **0.62** | 0.187 | **0.26** | 0.16 |
| | | | | | | | | | | | | | | | |
| 4 | Body | N77-H PC2 | 654200 | 3813 | DFT-s-OFDM QPSK | Front | 10mm | \ | 20.95 | 22.50 | 0.187 | **0.27** | 0.086 | **0.12** | 0.19 |
| 4 | Body | N77-H PC2 | 654200 | 3813 | DFT-s-OFDM QPSK | Rear | 10mm | \ | 20.95 | 22.50 | 0.336 | **0.48** | 0.137 | **0.20** | -0.13 |
| 4 | Body | N77-H PC2 | 665000 | 3975 | DFT-s-OFDM QPSK | Left | 10mm | \ | 20.78 | 22.50 | 0.187 | **0.28** | 0.082 | **0.12** | -0.06 |
| 4 | Body | N77-H PC2 | 661400 | 3921 | DFT-s-OFDM QPSK | Left | 10mm | \ | 20.79 | 22.50 | 0.232 | **0.34** | 0.102 | **0.15** | 0.16 |
| 4 | Body | N77-H PC2 | 657800 | 3867 | DFT-s-OFDM QPSK | Left | 10mm | \ | 20.94 | 22.50 | 0.289 | **0.41** | 0.124 | **0.18** | -0.17 |
| 4 | Body | N77-H PC2 | 654200 | 3813 | DFT-s-OFDM QPSK | Left | 10mm | \ | 20.95 | 22.50 | 0.387 | **0.55** | 0.161 | **0.23** | 0.11 |
| 4 | Body | N77-H PC2 | 650600 | 3759 | DFT-s-OFDM QPSK | Left | 10mm | \ | 20.89 | 22.50 | 0.407 | **0.59** | 0.169 | **0.24** | -0.15 |
| 4 | Body | N77-H PC2 | 647000 | 3705 | DFT-s-OFDM QPSK | Left | 10mm | \ | 20.70 | 22.50 | 0.325 | **0.49** | 0.141 | **0.21** | -0.11 |
| 4 | Body | N77-H PC2 | 654200 | 3813 | DFT-s-OFDM QPSK | Top | 10mm | \ | 20.95 | 22.50 | 0.144 | **0.21** | 0.059 | **0.08** | -0.04 |
| 4 | Body | N77-H PC2 | 654200 | 3813 | CP-OFDM 16QAM | Left | 10mm | \ | 20.90 | 22.50 | 0.347 | **0.50** | 0.138 | **0.20** | 0.15 |
| | | | | | | | | | | | | | | | |
| 4 | Body | N77-H PC2 | 654200 | 3813 | DFT-s-OFDM QPSK | Front | 15mm | \ | 23.48 | 25.00 | 0.394 | **0.56** | 0.186 | **0.26** | -0.02 |
| 4 | Body | N77-H PC2 | 665000 | 3975 | DFT-s-OFDM QPSK | Rear | 15mm | \ | 23.39 | 25.00 | 0.350 | **0.51** | 0.158 | **0.23** | 0.09 |
| 4 | Body | N77-H PC2 | 661400 | 3921 | DFT-s-OFDM QPSK | Rear | 15mm | \ | 23.41 | 25.00 | 0.405 | **0.58** | 0.182 | **0.26** | 0.17 |
| 4 | Body | N77-H PC2 | 657800 | 3867 | DFT-s-OFDM QPSK | Rear | 15mm | \ | 23.43 | 25.00 | 0.480 | **0.69** | 0.212 | **0.30** | 0.11 |
| 4 | Body | N77-H PC2 | 654200 | 3813 | DFT-s-OFDM QPSK | Rear | 15mm | FIG A.26 | 23.48 | 25.00 | 0.541 | **0.77** | 0.236 | **0.33** | -0.08 |
| 4 | Body | N77-H PC2 | 650600 | 3759 | DFT-s-OFDM QPSK | Rear | 15mm | \ | 23.43 | 25.00 | 0.539 | **0.77** | 0.233 | **0.33** | -0.05 |
| 4 | Body | N77-H PC2 | 647000 | 3705 | DFT-s-OFDM QPSK | Rear | 15mm | \ | 23.15 | 25.00 | 0.463 | **0.71** | 0.211 | **0.32** | -0.01 |
| 4 | Body | N77-H PC2 | 654200 | 3813 | CP-OFDM 16QAM | Rear | 15mm | \ | 23.64 | 25.00 | 0.507 | **0.69** | 0.219 | **0.30** | 0.15 |
| | | | | | | | | | | | | | | | |
| 4 | Head | N77-L PC3 | 633334 | 3500.01 | DFT-s-OFDM QPSK | Cheek Left | 0mm | \ | 15.89 | 17.50 | 0.116 | **0.17** | 0.059 | **0.09** | 0.09 |
| 4 | Head | N77-L PC3 | 633334 | 3500.01 | DFT-s-OFDM QPSK | Tilt Left | 0mm | \ | 15.89 | 17.50 | 0.109 | **0.16** | 0.051 | **0.07** | 0.11 |
| 4 | Head | N77-L PC3 | 636332 | 3544.98 | DFT-s-OFDM QPSK | Cheek Right | 0mm | \ | 15.88 | 17.50 | 0.341 | **0.50** | 0.151 | **0.22** | -0.02 |
| 4 | Head | N77-L PC3 | 633334 | 3500.01 | DFT-s-OFDM QPSK | Cheek Right | 0mm | \ | 15.89 | 17.50 | 0.345 | **0.50** | 0.152 | **0.22** | -0.11 |
| 4 | Head | N77-L PC3 | 630334 | 3445.01 | DFT-s-OFDM QPSK | Cheek Right | 0mm | \ | 15.84 | 17.50 | 0.373 | **0.55** | 0.166 | **0.24** | 0.19 |
| 4 | Head | N77-L PC3 | 633334 | 3500.01 | DFT-s-OFDM QPSK | Tilt Right | 0mm | \ | 15.89 | 17.50 | 0.277 | **0.40** | 0.116 | **0.17** | 0.05 |
| 4 | Head | N77-L PC3 | 633334 | 3500.01 | CP-OFDM 64QAM | Cheek Right | 0mm | \ | 15.84 | 17.50 | 0.312 | **0.46** | 0.136 | **0.20** | 0.18 |
| | | | | | | | | | | | | | | | |
| 4 | Body | N77-L PC3 | 633334 | 3500.01 | DFT-s-OFDM QPSK | Front | 10mm | \ | 18.51 | 20.00 | 0.203 | **0.29** | 0.102 | **0.14** | -0.02 |
| 4 | Body | N77-L PC3 | 636332 | 3544.98 | DFT-s-OFDM QPSK | Rear | 10mm | \ | 18.49 | 20.00 | 0.417 | **0.59** | 0.188 | **0.27** | -0.15 |
| 4 | Body | N77-L PC3 | 633334 | 3500.01 | DFT-s-OFDM QPSK | Rear | 10mm | FIG A.28 | 18.51 | 20.00 | 0.498 | **0.70** | 0.225 | **0.32** | -0.02 |
| 4 | Body | N77-L PC3 | 630334 | 3445.01 | DFT-s-OFDM QPSK | Rear | 10mm | \ | 18.50 | 20.00 | 0.426 | **0.60** | 0.189 | **0.27** | 0.01 |
| 4 | Body | N77-L PC3 | 633334 | 3500.01 | DFT-s-OFDM QPSK | Left | 10mm | \ | 18.51 | 20.00 | 0.491 | **0.69** | 0.214 | **0.30** | 0.11 |
| 4 | Body | N77-L PC3 | 633334 | 3500.01 | DFT-s-OFDM QPSK | Top | 10mm | \ | 18.51 | 20.00 | 0.074 | **0.10** | 0.036 | **0.05** | -0.06 |
| 4 | Body | N77-L PC3 | 633334 | 3500.01 | CP-OFDM 16QAM | Rear | 10mm | \ | 18.48 | 20.00 | 0.446 | **0.63** | 0.201 | **0.29** | 0.19 |
| | | | | | | | | | | | | | | | |
| 4 | Body | N77-L PC3 | 633334 | 3500.01 | DFT-s-OFDM QPSK | Front | 15mm | \ | 20.25 | 22.00 | 0.193 | **0.29** | 0.096 | **0.14** | 0.01 |
| 4 | Body | N77-L PC3 | 636332 | 3544.98 | DFT-s-OFDM QPSK | Rear | 15mm | \ | 20.24 | 22.00 | 0.316 | **0.47** | 0.148 | **0.22** | -0.04 |
| 4 | Body | N77-L PC3 | 633334 | 3500.01 | DFT-s-OFDM QPSK | Rear | 15mm | \ | 20.25 | 22.00 | 0.316 | **0.47** | 0.147 | **0.22** | -0.17 |
| 4 | Body | N77-L PC3 | 630334 | 3445.01 | DFT-s-OFDM QPSK | Rear | 15mm | \ | 20.19 | 22.00 | 0.321 | **0.49** | 0.148 | **0.22** | -0.06 |
| 4 | Body | N77-L PC3 | 633334 | 3500.01 | CP-OFDM QPSK | Rear | 15mm | \ | 20.21 | 22.00 | 0.287 | **0.43** | 0.121 | **0.18** | 0.16 |
| | | | | | | | | | | | | | | | |
| 4 | Head | N77-H PC3 | 654200 | 3813 | DFT-s-OFDM QPSK | Cheek Left | 0mm | \ | 16.01 | 17.50 | 0.125 | **0.18** | 0.060 | **0.08** | -0.09 |
| 4 | Head | N77-H PC3 | 654200 | 3813 | DFT-s-OFDM QPSK | Tilt Left | 0mm | \ | 16.01 | 17.50 | 0.166 | **0.23** | 0.069 | **0.10** | -0.12 |
| 4 | Head | N77-H PC3 | 665000 | 3975 | DFT-s-OFDM QPSK | Cheek Right | 0mm | \ | 15.74 | 17.50 | 0.336 | **0.50** | 0.137 | **0.21** | 0.08 |
| 4 | Head | N77-H PC3 | 661400 | 3921 | DFT-s-OFDM QPSK | Cheek Right | 0mm | \ | 15.77 | 17.50 | 0.395 | **0.59** | 0.162 | **0.24** | 0.18 |
| 4 | Head | N77-H PC3 | 657800 | 3867 | DFT-s-OFDM QPSK | Cheek Right | 0mm | \ | 15.96 | 17.50 | 0.470 | **0.67** | 0.195 | **0.28** | -0.07 |
| 4 | Head | N77-H PC3 | 654200 | 3813 | DFT-s-OFDM QPSK | Cheek Right | 0mm | \ | 16.01 | 17.50 | 0.499 | **0.70** | 0.205 | **0.29** | 0.18 |
| 4 | Head | N77-H PC3 | 650600 | 3759 | DFT-s-OFDM QPSK | Cheek Right | 0mm | FIG A.27 | 15.89 | 17.50 | 0.501 | **0.73** | 0.210 | **0.30** | 0.15 |
| 4 | Head | N77-H PC3 | 647000 | 3705 | DFT-s-OFDM QPSK | Cheek Right | 0mm | \ | 15.81 | 17.50 | 0.437 | **0.64** | 0.185 | **0.27** | -0.16 |
| 4 | Head | N77-H PC3 | 654200 | 3813 | DFT-s-OFDM QPSK | Tilt Right | 0mm | \ | 16.01 | 17.50 | 0.473 | **0.67** | 0.176 | **0.25** | 0.17 |
| 4 | Head | N77-H PC3 | 654200 | 3813 | CP-OFDM 64QAM | Cheek Right | 0mm | \ | 15.88 | 17.50 | 0.452 | **0.66** | 0.183 | **0.27** | 0.12 |
| | | | | | | | | | | | | | | | |
| 4 | Body | N77-H PC3 | 654200 | 3813 | DFT-s-OFDM QPSK | Front | 10mm | \ | 18.56 | 20.00 | 0.241 | **0.34** | 0.103 | **0.14** | 0.01 |
| 4 | Body | N77-H PC3 | 665000 | 3975 | DFT-s-OFDM QPSK | Rear | 10mm | \ | 18.43 | 20.00 | 0.264 | **0.38** | 0.111 | **0.16** | -0.09 |
| 4 | Body | N77-H PC3 | 661400 | 3921 | DFT-s-OFDM QPSK | Rear | 10mm | \ | 18.39 | 20.00 | 0.309 | **0.45** | 0.125 | **0.18** | 0.19 |
| 4 | Body | N77-H PC3 | 657800 | 3867 | DFT-s-OFDM QPSK | Rear | 10mm | \ | 18.54 | 20.00 | 0.346 | **0.48** | 0.140 | **0.20** | 0.09 |
| 4 | Body | N77-H PC3 | 654200 | 3813 | DFT-s-OFDM QPSK | Rear | 10mm | \ | 18.56 | 20.00 | 0.380 | **0.53** | 0.150 | **0.21** | 0.18 |
| 4 | Body | N77-H PC3 | 650600 | 3759 | DFT-s-OFDM QPSK | Rear | 10mm | \ | 18.41 | 20.00 | 0.414 | **0.60** | 0.167 | **0.24** | -0.10 |
| 4 | Body | N77-H PC3 | 647000 | 3705 | DFT-s-OFDM QPSK | Rear | 10mm | \ | 18.33 | 20.00 | 0.378 | **0.56** | 0.155 | **0.23** | -0.18 |
| 4 | Body | N77-H PC3 | 654200 | 3813 | DFT-s-OFDM QPSK | Left | 10mm | \ | 18.56 | 20.00 | 0.349 | **0.49** | 0.142 | **0.20** | 0.09 |
| 4 | Body | N77-H PC3 | 654200 | 3813 | DFT-s-OFDM QPSK | Top | 10mm | \ | 18.56 | 20.00 | 0.176 | **0.25** | 0.065 | **0.09** | 0.06 |
| 4 | Body | N77-H PC3 | 654200 | 3813 | CP-OFDM 16QAM | Rear | 10mm | \ | 18.40 | 20.00 | 0.351 | **0.51** | 0.137 | **0.20** | 0.02 |
| | | | | | | | | | | | | | | | |
| 4 | Body | N77-H PC3 | 654200 | 3813 | DFT-s-OFDM QPSK | Front | 15mm | \ | 20.44 | 22.00 | 0.327 | **0.47** | 0.150 | **0.21** | -0.01 |
| 4 | Body | N77-H PC3 | 665000 | 3975 | DFT-s-OFDM QPSK | Rear | 15mm | \ | 20.34 | 22.00 | 0.286 | **0.42** | 0.133 | **0.19** | 0.03 |
| 4 | Body | N77-H PC3 | 661400 | 3921 | DFT-s-OFDM QPSK | Rear | 15mm | \ | 20.33 | 22.00 | 0.338 | **0.50** | 0.156 | **0.23** | 0.15 |
| 4 | Body | N77-H PC3 | 657800 | 3867 | DFT-s-OFDM QPSK | Rear | 15mm | \ | 20.38 | 22.00 | 0.397 | **0.58** | 0.181 | **0.26** | -0.02 |
| 4 | Body | N77-H PC3 | 654200 | 3813 | DFT-s-OFDM QPSK | Rear | 15mm | \ | 20.44 | 22.00 | 0.441 | **0.63** | 0.196 | **0.28** | 0.15 |
| 4 | Body | N77-H PC3 | 650600 | 3759 | DFT-s-OFDM QPSK | Rear | 15mm | \ | 20.35 | 22.00 | 0.455 | **0.67** | 0.200 | **0.29** | 0.05 |
| 4 | Body | N77-H PC3 | 647000 | 3705 | DFT-s-OFDM QPSK | Rear | 15mm | \ | 20.38 | 22.00 | 0.380 | **0.55** | 0.177 | **0.26** | 0.04 |
| 4 | Body | N77-H PC3 | 654200 | 3813 | CP-OFDM 16QAM | Rear | 15mm | \ | 20.43 | 22.00 | 0.420 | **0.60** | 0.186 | **0.27** | -0.09 |

## 14.3 SAR results for WLAN

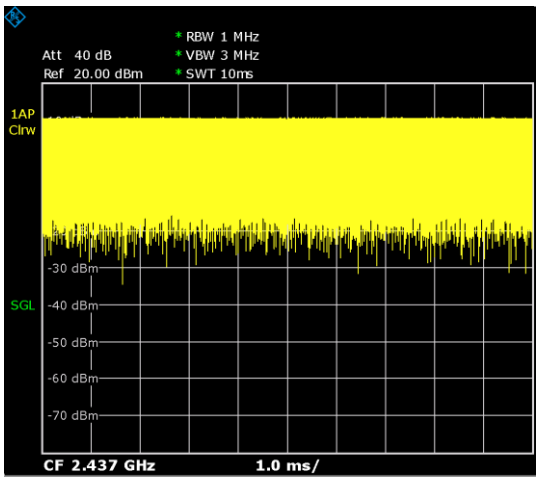
The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures.

When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/g/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n ac then ax) is selected.

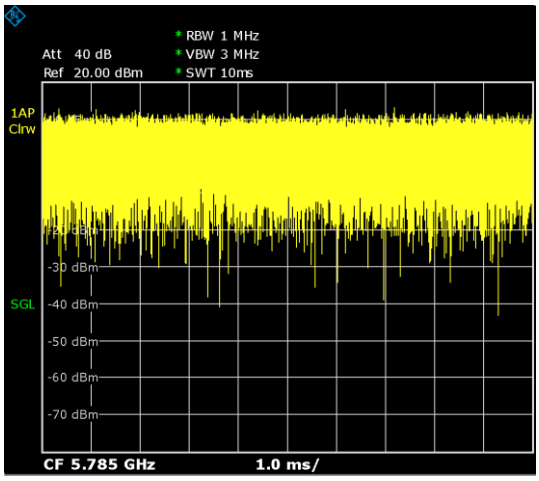
SAR Test reduction was applied from KDB 248227 guidance, when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band. Additional output power measurements were not deemed necessary.

### Duty factor plot

#### CH6




#### CH157



## WLAN 2.4G

| ANT | RF Exposure Conditions | Frequency Band | Channel Number | Frequency (MHz) | Mode | Test setup | Distance | Figure No. | Note | EUT Measured Power (dBm) | Tune up (dBm) | Measured SAR 1g (W/kg) | Calculated SAR 1g (W/kg) | Measured SAR 10g (W/kg) | Calculated SAR 10g (W/kg) | Power Drift | Duty Cycle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | Head | WIFI2.4G | 6 | 243 | 11b | Cheek Left | 0mm | \ | Note1 | 18.65 | 20.00 | 0.550 | **0.75** | 0.264 | **0.36** | -0.18 | 100.00% |
| 7 | Head | WIFI2.4G | 6 | 243 | 11b | Tilt Left | 0mm | FIG A.29 | Note1 | 18.65 | 20.00 | 0.757 | **1.03** | 0.332 | **0.45** | -0.05 | 100.00% |
| 7 | Head | WIFI2.4G | 6 | 243 | 11b | Cheek Right | 0mm | \ | Note1 | 18.65 | 20.00 | 0.304 | **0.41** | 0.154 | **0.21** | 0.11 | 100.00% |
| 7 | Head | WIFI2.4G | 6 | 243 | 11b | Tilt Right | 0mm | \ | Note1 | 18.65 | 20.00 | 0.387 | **0.53** | 0.186 | **0.25** | -0.16 | 100.00% |
| 7 | | | | | | | | | | | | | | | | | |
| 7 | Head | WIFI2.4G | 6 | 243 | 11b | Cheek Left | 0mm | \ | Note2 | 16.78 | 18.00 | 0.353 | **0.47** | 0.161 | **0.21** | 0.03 | 100.00% |
| 7 | Head | WIFI2.4G | 6 | 243 | 11b | Tilt Left | 0mm | \ | Note2 | 16.78 | 18.00 | 0.486 | **0.64** | 0.202 | **0.27** | -0.11 | 100.00% |
| 7 | Head | WIFI2.4G | 6 | 243 | 11b | Cheek Right | 0mm | \ | Note2 | 16.78 | 18.00 | 0.195 | **0.26** | 0.094 | **0.12** | -0.12 | 100.00% |
| 7 | Head | WIFI2.4G | 6 | 243 | 11b | Tilt Right | 0mm | \ | Note2 | 16.78 | 18.00 | 0.248 | **0.33** | 0.113 | **0.15** | -0.02 | 100.00% |
| | | | | | | | | | | | | | | | | | |
| 7 | Body | WIFI2.4G | 6 | 243 | 11b | Front | 10mm | \ | \ | 18.65 | 20.00 | 0.164 | **0.22** | 0.083 | **0.11** | -0.03 | 100.00% |
| 7 | Body | WIFI2.4G | 6 | 243 | 11b | Rear | 10mm | FIG A.30 | \ | 18.65 | 20.00 | 0.244 | **0.33** | 0.124 | **0.17** | -0.05 | 100.00% |
| 7 | Body | WIFI2.4G | 6 | 243 | 11b | Right | 10mm | \ | \ | 18.65 | 20.00 | 0.085 | **0.12** | 0.043 | **0.06** | -0.16 | 100.00% |
| 7 | Body | WIFI2.4G | 6 | 243 | 11b | Top | 10mm | \ | \ | 18.65 | 20.00 | 0.225 | **0.31** | 0.109 | **0.15** | -0.01 | 100.00% |
| 7 | | | | | | | | | | | | | | | | | |
| 7 | Body | WIFI2.4G | 6 | 243 | 11b | Front | 15mm | \ | \ | 18.65 | 20.00 | 0.072 | **0.10** | 0.038 | **0.05** | 0.14 | 100.00% |
| 7 | Body | WIFI2.4G | 6 | 243 | 11b | Rear | 15mm | \ | \ | 18.65 | 20.00 | 0.117 | **0.16** | 0.063 | **0.09** | 0.16 | 100.00% |

# WLAN 5G

| ANT | RF Exposure Conditions | Frequency Band | Channel Number | Frequency (MHz) | Mode | Test setup | Distance | Figure No. | Note | EUT Measured Power (dBm) | Tune up (dBm) | Measured SAR 1g (W/kg) | Calculated SAR 1g (W/kg) | Measured SAR 10g (W/kg) | Calculated SAR 10g (W/kg) | Power Drift | Duty Cycle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | Head | WIFI5G | 48 | 5240 | 11a | Cheek Left | 0mm | \ | Note1 | 17.57 | 18.50 | 0.362 | **0.45** | 0.108 | **0.13** | -0.03 | 100.00% |
| 7 | Head | WIFI5G | 48 | 5240 | 11a | Tilt Left | 0mm | \ | Note1 | 17.57 | 18.50 | 0.477 | **0.59** | 0.147 | **0.18** | 0.14 | 100.00% |
| 7 | Head | WIFI5G | 48 | 5240 | 11a | Cheek Right | 0mm | \ | Note1 | 17.57 | 18.50 | 0.106 | **0.13** | 0.038 | **0.05** | -0.06 | 100.00% |
| 7 | Head | WIFI5G | 48 | 5240 | 11a | Tilt Right | 0mm | \ | Note1 | 17.57 | 18.50 | 0.172 | **0.21** | 0.059 | **0.07** | 0.13 | 100.00% |
| 7 | Head | WIFI5G | 56 | 5280 | 11a | Cheek Left | 0mm | \ | Note1 | 17.75 | 18.50 | 0.482 | **0.57** | 0.138 | **0.16** | -0.07 | 100.00% |
| 7 | Head | WIFI5G | 56 | 5280 | 11a | Tilt Left | 0mm | \ | Note1 | 17.75 | 18.50 | 0.545 | **0.65** | 0.163 | **0.19** | 0.14 | 100.00% |
| 7 | Head | WIFI5G | 56 | 5280 | 11a | Cheek Right | 0mm | \ | Note1 | 17.75 | 18.50 | 0.090 | **0.11** | 0.034 | **0.04** | -0.01 | 100.00% |
| 7 | Head | WIFI5G | 56 | 5280 | 11a | Tilt Right | 0mm | \ | Note1 | 17.75 | 18.50 | 0.155 | **0.18** | 0.051 | **0.06** | 0.05 | 100.00% |
| 7 | Head | WIFI5G | 120 | 5600 | 11a | Cheek Left | 0mm | \ | Note1 | 17.37 | 17.50 | 0.423 | **0.44** | 0.120 | **0.12** | 0.11 | 100.00% |
| 7 | Head | WIFI5G | 120 | 5600 | 11a | Tilt Left | 0mm | \ | Note1 | 17.37 | 17.50 | 0.507 | **0.52** | 0.154 | **0.16** | 0.01 | 100.00% |
| 7 | Head | WIFI5G | 120 | 5600 | 11a | Cheek Right | 0mm | \ | Note1 | 17.37 | 17.50 | 0.128 | **0.13** | 0.039 | **0.04** | -0.13 | 100.00% |
| 7 | Head | WIFI5G | 120 | 5600 | 11a | Tilt Right | 0mm | \ | Note1 | 17.37 | 17.50 | 0.258 | **0.27** | 0.073 | **0.08** | -0.04 | 100.00% |
| 7 | Head | WIFI5G | 157 | 5785 | 11a | Cheek Left | 0mm | \ | Note1 | 17.34 | 18.50 | 0.594 | **0.78** | 0.162 | **0.21** | 0.16 | 100.00% |
| 7 | Head | WIFI5G | 157 | 5785 | 11a | Tilt Left | 0mm | FIG A.31 | Note1 | 17.34 | 18.50 | 0.613 | **0.80** | 0.178 | **0.23** | 0.11 | 100.00% |
| 7 | Head | WIFI5G | 157 | 5785 | 11a | Cheek Right | 0mm | \ | Note1 | 17.34 | 18.50 | 0.202 | **0.26** | 0.057 | **0.07** | 0.03 | 100.00% |
| 7 | Head | WIFI5G | 157 | 5785 | 11a | Tilt Right | 0mm | \ | Note1 | 17.34 | 18.50 | 0.354 | **0.46** | 0.097 | **0.13** | -0.05 | 100.00% |
| 7 | | | | | | | | | | | | | | | | | |
| 7 | Head | WIFI5G | 48 | 5240 | 11a | Cheek Left | 0mm | \ | Note2 | 16.86 | 17.50 | 0.334 | **0.39** | 0.090 | **0.10** | 0.02 | 100.00% |
| 7 | Head | WIFI5G | 48 | 5240 | 11a | Tilt Left | 0mm | \ | Note2 | 16.86 | 17.50 | 0.440 | **0.51** | 0.123 | **0.14** | 0.12 | 100.00% |
| 7 | Head | WIFI5G | 48 | 5240 | 11a | Cheek Right | 0mm | \ | Note2 | 16.86 | 17.50 | 0.098 | **0.11** | 0.032 | **0.04** | -0.16 | 100.00% |
| 7 | Head | WIFI5G | 48 | 5240 | 11a | Tilt Right | 0mm | \ | Note2 | 16.86 | 17.50 | 0.159 | **0.18** | 0.049 | **0.06** | 0.06 | 100.00% |
| 7 | Head | WIFI5G | 56 | 5280 | 11a | Cheek Left | 0mm | \ | Note2 | 16.98 | 17.50 | 0.444 | **0.50** | 0.116 | **0.13** | 0.08 | 100.00% |
| 7 | Head | WIFI5G | 56 | 5280 | 11a | Tilt Left | 0mm | \ | Note2 | 16.98 | 17.50 | 0.502 | **0.57** | 0.136 | **0.15** | 0.05 | 100.00% |
| 7 | Head | WIFI5G | 56 | 5280 | 11a | Cheek Right | 0mm | \ | Note2 | 16.98 | 17.50 | 0.083 | **0.09** | 0.028 | **0.03** | -0.15 | 100.00% |
| 7 | Head | WIFI5G | 56 | 5280 | 11a | Tilt Right | 0mm | \ | Note2 | 16.98 | 17.50 | 0.143 | **0.16** | 0.043 | **0.05** | -0.12 | 100.00% |
| 7 | Head | WIFI5G | 120 | 5600 | 11a | Cheek Left | 0mm | \ | Note2 | 16.35 | 16.50 | 0.123 | **0.13** | 0.047 | **0.05** | -0.14 | 100.00% |
| 7 | Head | WIFI5G | 120 | 5600 | 11a | Tilt Left | 0mm | \ | Note2 | 16.35 | 16.50 | 0.180 | **0.19** | 0.063 | **0.07** | -0.14 | 100.00% |
| 7 | Head | WIFI5G | 120 | 5600 | 11a | Cheek Right | 0mm | \ | Note2 | 16.35 | 16.50 | 0.054 | **0.06** | 0.016 | **0.02** | 0.03 | 100.00% |
| 7 | Head | WIFI5G | 120 | 5600 | 11a | Tilt Right | 0mm | \ | Note2 | 16.35 | 16.50 | 0.099 | **0.10** | 0.048 | **0.05** | -0.11 | 100.00% |
| 7 | Head | WIFI5G | 157 | 5785 | 11a | Cheek Left | 0mm | \ | Note2 | 16.70 | 17.50 | 0.547 | **0.66** | 0.136 | **0.16** | 0.05 | 100.00% |
| 7 | Head | WIFI5G | 157 | 5785 | 11a | Tilt Left | 0mm | \ | Note2 | 16.70 | 17.50 | 0.565 | **0.68** | 0.149 | **0.18** | 0.11 | 100.00% |
| 7 | Head | WIFI5G | 157 | 5785 | 11a | Cheek Right | 0mm | \ | Note2 | 16.70 | 17.50 | 0.186 | **0.22** | 0.048 | **0.06** | 0.15 | 100.00% |
| 7 | Head | WIFI5G | 157 | 5785 | 11a | Tilt Right | 0mm | \ | Note2 | 16.70 | 17.50 | 0.326 | **0.39** | 0.081 | **0.10** | 0.14 | 100.00% |
| | | | | | | | | | | | | | | | | | |
| 7 | Body | WIFI5G | 48 | 5240 | 11a | Front | 10mm | \ | Note1 | 17.57 | 18.50 | 0.107 | **0.13** | 0.027 | **0.03** | -0.17 | 100.00% |
| 7 | Body | WIFI5G | 40 | 5200 | 11a | Rear | 10mm | \ | Note1 | 17.45 | 18.50 | 0.534 | **0.68** | 0.175 | **0.22** | 0.11 | 100.00% |
| 7 | Body | WIFI5G | 48 | 5240 | 11a | Rear | 10mm | \ | Note1 | 17.57 | 18.50 | 0.703 | **0.87** | 0.235 | **0.29** | -0.12 | 100.00% |
| 7 | Body | WIFI5G | 48 | 5240 | 11a | Right | 10mm | \ | Note1 | 17.57 | 18.50 | 0.376 | **0.47** | 0.141 | **0.17** | -0.03 | 100.00% |
| 7 | Body | WIFI5G | 48 | 5240 | 11a | Top | 10mm | \ | Note1 | 17.57 | 18.50 | 0.417 | **0.52** | 0.168 | **0.21** | 0.18 | 100.00% |
| 7 | Body | WIFI5G | 56 | 5280 | 11a | Front | 10mm | \ | Note1 | 17.75 | 18.50 | 0.083 | **0.10** | 0.032 | **0.04** | -0.17 | 100.00% |
| 7 | Body | WIFI5G | 56 | 5280 | 11a | Rear | 10mm | \ | Note1 | 17.75 | 18.50 | 0.724 | **0.86** | 0.238 | **0.28** | 0.14 | 100.00% |
| 7 | Body | WIFI5G | 64 | 5320 | 11a | Rear | 10mm | \ | Note1 | 17.68 | 18.50 | 0.801 | **0.97** | 0.269 | **0.32** | -0.02 | 100.00% |
| 7 | Body | WIFI5G | 56 | 5280 | 11a | Right | 10mm | \ | Note1 | 17.75 | 18.50 | 0.426 | **0.51** | 0.165 | **0.20** | -0.06 | 100.00% |
| 7 | Body | WIFI5G | 56 | 5280 | 11a | Top | 10mm | \ | Note1 | 17.75 | 18.50 | 0.394 | **0.47** | 0.160 | **0.19** | 0.13 | 100.00% |
| 7 | Body | WIFI5G | 120 | 5600 | 11a | Front | 10mm | \ | Note1 | 17.37 | 17.50 | 0.092 | **0.09** | 0.033 | **0.03** | -0.09 | 100.00% |
| 7 | Body | WIFI5G | 120 | 5600 | 11a | Rear | 10mm | \ | Note1 | 17.37 | 17.50 | 0.709 | **0.73** | 0.251 | **0.26** | -0.04 | 100.00% |
| 7 | Body | WIFI5G | 120 | 5600 | 11a | Right | 10mm | \ | Note1 | 17.37 | 17.50 | 0.445 | **0.46** | 0.166 | **0.17** | 0.15 | 100.00% |
| 7 | Body | WIFI5G | 120 | 5600 | 11a | Top | 10mm | \ | Note1 | 17.37 | 17.50 | 0.505 | **0.52** | 0.190 | **0.20** | 0.12 | 100.00% |
| 7 | Body | WIFI5G | 157 | 5785 | 11a | Front | 10mm | \ | Note1 | 17.34 | 18.50 | 0.124 | **0.16** | 0.040 | **0.05** | -0.12 | 100.00% |
| 7 | Body | WIFI5G | 149 | 5745 | 11a | Rear | 10mm | \ | Note1 | 17.32 | 18.50 | 0.801 | **1.05** | 0.296 | **0.39** | -0.06 | 100.00% |
| 7 | Body | WIFI5G | 157 | 5785 | 11a | Rear | 10mm | FIG A.32 | Note1 | 17.34 | 18.50 | 0.808 | **1.06** | 0.300 | **0.39** | 0.18 | 100.00% |
| 7 | Body | WIFI5G | 157 | 5785 | 11a | Right | 10mm | \ | Note1 | 17.34 | 18.50 | 0.556 | **0.73** | 0.204 | **0.27** | 0.11 | 100.00% |
| 7 | Body | WIFI5G | 149 | 5745 | 11a | Top | 10mm | \ | Note1 | 17.32 | 18.50 | 0.634 | **0.83** | 0.235 | **0.31** | 0.09 | 100.00% |
| 7 | Body | WIFI5G | 157 | 5785 | 11a | Top | 10mm | \ | Note1 | 17.34 | 18.50 | 0.698 | **0.91** | 0.249 | **0.33** | -0.18 | 100.00% |
| | | | | | | | | | | | | | | | | | |
| 7 | Body | WIFI5G | 48 | 5240 | 11a | Front | 10mm | \ | Note2 | 16.86 | 17.50 | 0.058 | **0.07** | 0.020 | **0.02** | -0.09 | 100.00% |
| 7 | Body | WIFI5G | 48 | 5240 | 11a | Rear | 10mm | \ | Note2 | 16.86 | 17.50 | 0.366 | **0.42** | 0.133 | **0.15** | 0.14 | 100.00% |
| 7 | Body | WIFI5G | 48 | 5240 | 11a | Right | 10mm | \ | Note2 | 16.86 | 17.50 | 0.279 | **0.32** | 0.105 | **0.12** | 0.01 | 100.00% |
| 7 | Body | WIFI5G | 48 | 5240 | 11a | Top | 10mm | \ | Note2 | 16.86 | 17.50 | 0.305 | **0.35** | 0.091 | **0.11** | -0.13 | 100.00% |
| 7 | Body | WIFI5G | 56 | 5280 | 11a | Front | 10mm | \ | Note2 | 16.98 | 17.50 | 0.066 | **0.07** | 0.025 | **0.03** | 0.01 | 100.00% |
| 7 | Body | WIFI5G | 56 | 5280 | 11a | Rear | 10mm | \ | Note2 | 16.98 | 17.50 | 0.533 | **0.60** | 0.179 | **0.20** | -0.12 | 100.00% |
| 7 | Body | WIFI5G | 56 | 5280 | 11a | Right | 10mm | \ | Note2 | 16.98 | 17.50 | 0.304 | **0.34** | 0.115 | **0.13** | 0.11 | 100.00% |
| 7 | Body | WIFI5G | 56 | 5280 | 11a | Top | 10mm | \ | Note2 | 16.98 | 17.50 | 0.338 | **0.38** | 0.126 | **0.14** | 0.13 | 100.00% |
| 7 | Body | WIFI5G | 120 | 5600 | 11a | Front | 10mm | \ | Note2 | 16.35 | 16.50 | 0.063 | **0.07** | 0.024 | **0.02** | 0.11 | 100.00% |
| 7 | Body | WIFI5G | 120 | 5600 | 11a | Rear | 10mm | \ | Note2 | 16.35 | 16.50 | 0.574 | **0.59** | 0.190 | **0.20** | 0.19 | 100.00% |
| 7 | Body | WIFI5G | 120 | 5600 | 11a | Right | 10mm | \ | Note2 | 16.35 | 16.50 | 0.337 | **0.35** | 0.125 | **0.13** | -0.09 | 100.00% |
| 7 | Body | WIFI5G | 120 | 5600 | 11a | Top | 10mm | \ | Note2 | 16.35 | 16.50 | 0.319 | **0.33** | 0.121 | **0.13** | 0.19 | 100.00% |
| 7 | Body | WIFI5G | 157 | 5785 | 11a | Front | 10mm | \ | Note2 | 16.70 | 17.50 | 0.083 | **0.10** | 0.031 | **0.04** | 0.13 | 100.00% |
| 7 | Body | WIFI5G | 157 | 5785 | 11a | Rear | 10mm | \ | Note2 | 16.70 | 17.50 | 0.631 | **0.76** | 0.225 | **0.27** | 0.14 | 100.00% |
| 7 | Body | WIFI5G | 157 | 5785 | 11a | Right | 10mm | \ | Note2 | 16.70 | 17.50 | 0.424 | **0.51** | 0.153 | **0.18** | -0.18 | 100.00% |
| 7 | Body | WIFI5G | 157 | 5785 | 11a | Top | 10mm | \ | Note2 | 16.70 | 17.50 | 0.501 | **0.60** | 0.177 | **0.21** | -0.03 | 100.00% |
| | | | | | | | | | | | | | | | | | |
| 7 | Body | WIFI5G | 48 | 5240 | 11a | Front | 15mm | \ | Note1 | 17.57 | 18.50 | 0.074 | **0.09** | 0.025 | **0.03** | 0.07 | 100.00% |
| 7 | Body | WIFI5G | 48 | 5240 | 11a | Rear | 15mm | \ | Note1 | 17.57 | 18.50 | 0.413 | **0.51** | 0.158 | **0.20** | 0.01 | 100.00% |
| 7 | Body | WIFI5G | 56 | 5280 | 11a | Front | 15mm | \ | Note1 | 17.75 | 18.50 | 0.058 | **0.07** | 0.020 | **0.02** | 0.12 | 100.00% |
| 7 | Body | WIFI5G | 56 | 5280 | 11a | Rear | 15mm | \ | Note1 | 17.75 | 18.50 | 0.437 | **0.52** | 0.169 | **0.20** | 0.05 | 100.00% |
| 7 | Body | WIFI5G | 120 | 5600 | 11a | Front | 15mm | \ | Note1 | 17.37 | 17.50 | 0.061 | **0.06** | 0.022 | **0.02** | 0.03 | 100.00% |
| 7 | Body | WIFI5G | 120 | 5600 | 11a | Rear | 15mm | \ | Note1 | 17.37 | 17.50 | 0.502 | **0.52** | 0.194 | **0.20** | 0.19 | 100.00% |
| 7 | Body | WIFI5G | 157 | 5785 | 11a | Front | 15mm | \ | Note1 | 17.34 | 18.50 | 0.085 | **0.11** | 0.029 | **0.04** | -0.04 | 100.00% |
| 7 | Body | WIFI5G | 157 | 5785 | 11a | Rear | 15mm | \ | Note1 | 17.34 | 18.50 | 0.551 | **0.72** | 0.226 | **0.30** | 0.16 | 100.00% |
| | | | | | | | | | | | | | | | | | |
| 7 | Body | WIFI5G | 48 | 5240 | 11a | Front | 15mm | \ | Note2 | 16.86 | 17.50 | 0.055 | **0.06** | 0.018 | **0.02** | 0.04 | 100.00% |
| 7 | Body | WIFI5G | 48 | 5240 | 11a | Rear | 15mm | \ | Note2 | 16.86 | 17.50 | 0.307 | **0.36** | 0.113 | **0.13** | 0.01 | 100.00% |
| 7 | Body | WIFI5G | 56 | 5280 | 11a | Front | 15mm | \ | Note2 | 16.98 | 17.50 | 0.043 | **0.05** | 0.014 | **0.02** | -0.1 | 100.00% |
| 7 | Body | WIFI5G | 56 | 5280 | 11a | Rear | 15mm | \ | Note2 | 16.98 | 17.50 | 0.325 | **0.37** | 0.121 | **0.14** | 0.01 | 100.00% |
| 7 | Body | WIFI5G | 120 | 5600 | 11a | Front | 15mm | \ | Note2 | 16.35 | 16.50 | 0.045 | **0.05** | 0.016 | **0.02** | -0.05 | 100.00% |
| 7 | Body | WIFI5G | 120 | 5600 | 11a | Rear | 15mm | \ | Note2 | 16.35 | 16.50 | 0.374 | **0.39** | 0.139 | **0.14** | 0.09 | 100.00% |
| 7 | Body | WIFI5G | 157 | 5785 | 11a | Front | 15mm | \ | Note2 | 16.70 | 17.50 | 0.063 | **0.08** | 0.021 | **0.03** | -0.19 | 100.00% |
| 7 | Body | WIFI5G | 157 | 5785 | 11a | Rear | 15mm | \ | Note2 | 16.70 | 17.50 | 0.410 | **0.49** | 0.162 | **0.19** | -0.13 | 100.00% |

## 14.4 SAR results for BT

| ANT | RF Exposure Conditions | Frequency Band | Channel Number | Frequency (MHz) | Mode | Test setup | Distance | Figure No. | EUT Measured Power (dBm) | Tune up (dBm) | Measured SAR 1g (W/kg) | Calculated SAR 1g (W/kg) | Measured SAR 10g (W/kg) | Calculated SAR 10g (W/kg) | Power Drift |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | Head | BT | 39 | 2441 | GFSK | Cheek Left | 0mm | \ | 11.2 | 11.50 | <0.01 | **<0.01** | <0.01 | **<0.01** | / |
| 3 | Head | BT | 39 | 2441 | GFSK | Tilt Left | 0mm | \ | 11.2 | 11.50 | <0.01 | **<0.01** | <0.01 | **<0.01** | / |
| 3 | Head | BT | 39 | 2441 | GFSK | Cheek Right | 0mm | \ | 11.2 | 11.50 | <0.01 | **<0.01** | <0.01 | **<0.01** | / |
| 3 | Head | BT | 39 | 2441 | GFSK | Tilt Right | 0mm | \ | 11.2 | 11.50 | <0.01 | **<0.01** | <0.01 | **<0.01** | / |
| | | | | | | | | | | | | | | | |
| 3 | Body | BT | 39 | 2441 | GFSK | Front | 10mm | \ | 11.2 | 11.50 | <0.01 | **<0.01** | <0.01 | **<0.01** | / |
| 3 | Body | BT | 39 | 2441 | GFSK | Rear | 10mm | FIG A.33 | 11.2 | 11.50 | 0.023 | **0.02** | 0.011 | **0.01** | 0.16 |
| 3 | Body | BT | 39 | 2441 | GFSK | Left | 10mm | \ | 11.2 | 11.50 | <0.01 | **<0.01** | <0.01 | **<0.01** | / |
| 3 | Body | BT | 39 | 2441 | GFSK | Right | 10mm | \ | 11.2 | 11.50 | <0.01 | **<0.01** | <0.01 | **<0.01** | / |
| 3 | Body | BT | 39 | 2441 | GFSK | Top | 10mm | \ | 11.2 | 11.50 | <0.01 | **<0.01** | <0.01 | **<0.01** | / |

## 14.5 SAR results for Phablet

According to the KDB648474 D04, for smart phones, with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, that can provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets and 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.

1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.
2. The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at ≤ 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 Publication 865664 D01 to address interactive hand use exposure conditions. 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; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold. The normal tablet procedures in KDB Publication 616217 are required when the overall diagonal dimension of the device is > 20.0 cm. Hotspot mode SAR is not required when normal tablet procedures are applied. Extremity 10-g SAR is also not required for the front (top) surface of larger form factor full size tablets. The more conservative normal tablet SAR results can be used to support phablet mode 10-g extremity SAR.
3. The simultaneous transmission operating configurations applicable to voice and data transmissions for both phone and mini-tablet modes must be taken into consideration separately for 1-g and 10-g SAR to determine the simultaneous transmission SAR test exclusion and measurement requirements for the relevant wireless modes and exposure conditions

The 10g extremity SAR is not required for this DUT, because all the hotspot mode 1g reported SAR is less than 1.2 W/kg.

# 15 SAR Measurement Variability

SAR measurement variability must be 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.

The following procedures are applied to determine if repeated measurements are required.

1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps2) through 4) do not apply.

2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.

3) Perform a second repeated measurement only 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 ≥ 1.45W/kg (~ 10% from the 1-g SAR limit).

4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20

| ANT | RF Exposure Conditions | Frequency Band | Channel Number | Frequency (MHz) | Mode/RB | Test setup | Distance | Original SAR 1g (W/kg) | First Repeated SAR 1g (W/kg) | The Ratio | Second Repeated SAR 1g (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Body | WCDMA 1700 | 1312 | 1712.4 | RMC | Bottom | 10mm | 0.887 | 0.848 | 1.05 | / |
| 1 | Body | WCDMA 1900 | 9262 | 1852.4 | RMC | Bottom | 10mm | 0.831 | 0.801 | 1.04 | / |
| 1 | Body | LTE Band4 | 20050 | 1720 | 1RB-Low | Bottom | 10mm | 0.801 | 0.768 | 1.04 | / |
| 1 | Body | LTE Band66 | 132072 | 1720 | 1RB-Low | Bottom | 10mm | 0.809 | 0.782 | 1.03 | / |

| ANT | RF Exposure Conditions | Frequency Band | Channel Number | Frequency (MHz) | Mode | Test setup | Distance | Original SAR 1g (W/kg) | First Repeated SAR 1g (W/kg) | The Ratio | Second Repeated SAR 1g (W/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | Body | WIFI5G | 64 | 5320 | 11a | Rear | 10mm | 0.801 | 0.780 | 1.03 | / |
| 7 | Body | WIFI5G | 149 | 5745 | 11a | Rear | 10mm | 0.801 | 0.767 | 1.04 | / |
| 7 | Body | WIFI5G | 157 | 5785 | 11a | Rear | 10mm | 0.808 | 0.777 | 1.04 | / |

# 16 Measurement Uncertainty

## 16.1 Measurement Uncertainty for Normal SAR Tests (300MHz~3GHz)

| No. | Error Description | Type | Uncertainty value | Probably Distribution | Div. | (Ci) 1g | (Ci) 10g | Std. Unc. (1g) | Std. Unc. (10g) | Degree of freedom |
|---|---|---|---|---|---|---|---|---|---|---|
| **Measurement system** | | | | | | | | | | |
| 1 | Probe calibration | B | 6.0 | N | 1 | 1 | 1 | 6.0 | 6.0 | ∞ |
| 2 | Isotropy | B | 4.7 | R | $\sqrt{3}$ | 0.7 | 0.7 | 1.9 | 1.9 | ∞ |
| 3 | Boundary effect | B | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 | ∞ |
| 4 | Linearity | B | 4.7 | R | $\sqrt{3}$ | 1 | 1 | 2.7 | 2.7 | ∞ |
| 5 | Detection limit | B | 1.0 | N | 1 | 1 | 1 | 0.6 | 0.6 | ∞ |
| 6 | Readout electronics | B | 0.3 | R | $\sqrt{3}$ | 1 | 1 | 0.3 | 0.3 | ∞ |
| 7 | Response time | B | 0.8 | R | $\sqrt{3}$ | 1 | 1 | 0.5 | 0.5 | ∞ |
| 8 | Integration time | B | 2.6 | R | $\sqrt{3}$ | 1 | 1 | 1.5 | 1.5 | ∞ |
| 9 | RF ambient conditions-noise | B | 0 | R | $\sqrt{3}$ | 1 | 1 | 0 | 0 | ∞ |
| 10 | RFambient conditions-reflection | B | 0 | R | $\sqrt{3}$ | 1 | 1 | 0 | 0 | ∞ |
| 11 | Probe positioned mech. restrictions | B | 0.4 | R | $\sqrt{3}$ | 1 | 1 | 0.2 | 0.2 | ∞ |
| 12 | Probe positioning with respect to phantom shell | B | 2.9 | R | $\sqrt{3}$ | 1 | 1 | 1.7 | 1.7 | ∞ |
| 13 | Post-processing | B | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 | ∞ |
| **Test sample related** | | | | | | | | | | |
| 14 | Test sample positioning | A | 3.3 | N | 1 | 1 | 1 | 3.3 | 3.3 | 71 |
| 15 | Device holder uncertainty | A | 3.4 | N | 1 | 1 | 1 | 3.4 | 3.4 | 5 |
| 16 | Drift of output power | B | 5.0 | R | $\sqrt{3}$ | 1 | 1 | 2.9 | 2.9 | ∞ |
| **Phantom and set-up** | | | | | | | | | | |
| 17 | Phantom uncertainty | B | 4.0 | R | $\sqrt{3}$ | 1 | 1 | 2.3 | 2.3 | ∞ |
| 18 | Liquid conductivity (target) | B | 5.0 | R | $\sqrt{3}$ | 0.64 | 0.43 | 1.8 | 1.2 | ∞ |
| 19 | Liquid conductivity (meas.) | A | 2.06 | N | 1 | 0.64 | 0.43 | 1.32 | 0.89 | 43 |
| 20 | Liquid permittivity (target) | B | 5.0 | R | $\sqrt{3}$ | 0.6 | 0.49 | 1.7 | 1.4 | ∞ |
| 21 | Liquid permittivity (meas.) | A | 1.6 | N | 1 | 0.6 | 0.49 | 1.0 | 0.8 | 521 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Combined standard uncertainty | $u_c^{'} = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$ | | | | | 9.55 | 9.43 | 257 |
| Expanded uncertainty (confidence interval of 95 %) | $u_e = 2u_c$ | | | | | 19.1 | 18.9 | |

## 16.2 Measurement Uncertainty for Normal SAR Tests (3~6GHz)

| No. | Error Description | Type | Uncertainty value | Probably Distribution | Div. | (Ci) 1g | (Ci) 10g | Std. Unc. (1g) | Std. Unc. (10g) | Degree of freedom |
|---|---|---|---|---|---|---|---|---|---|---|
| **Measurement system** | | | | | | | | | | |
| 1 | Probe calibration | B | 6.55 | N | 1 | 1 | 1 | 6.55 | 6.55 | ∞ |
| 2 | Isotropy | B | 4.7 | R | √3 | 0.7 | 0.7 | 1.9 | 1.9 | ∞ |
| 3 | Boundary effect | B | 2.0 | R | √3 | 1 | 1 | 1.2 | 1.2 | ∞ |
| 4 | Linearity | B | 4.7 | R | √3 | 1 | 1 | 2.7 | 2.7 | ∞ |
| 5 | Detection limit | B | 1.0 | R | √3 | 1 | 1 | 0.6 | 0.6 | ∞ |
| 6 | Readout electronics | B | 0.3 | R | √3 | 1 | 1 | 0.3 | 0.3 | ∞ |
| 7 | Response time | B | 0.8 | R | √3 | 1 | 1 | 0.5 | 0.5 | ∞ |
| 8 | Integration time | B | 2.6 | R | √3 | 1 | 1 | 1.5 | 1.5 | ∞ |
| 9 | RF ambient conditions-noise | B | 0 | R | √3 | 1 | 1 | 0 | 0 | ∞ |
| 10 | RFambient conditions-reflection | B | 0 | R | √3 | 1 | 1 | 0 | 0 | ∞ |
| 11 | Probe positioned mech. restrictions | B | 0.8 | R | √3 | 1 | 1 | 0.5 | 0.5 | ∞ |
| 12 | Probe positioning with respect to phantom shell | B | 6.7 | R | √3 | 1 | 1 | 3.9 | 3.9 | ∞ |
| 13 | Post-processing | B | 4.0 | R | √3 | 1 | 1 | 2.3 | 2.3 | ∞ |
| **Test sample related** | | | | | | | | | | |
| 14 | Test sample positioning | A | 3.3 | N | 1 | 1 | 1 | 3.3 | 3.3 | 71 |
| 15 | Device holder uncertainty | A | 3.4 | N | 1 | 1 | 1 | 3.4 | 3.4 | 5 |
| 16 | Drift of output power | B | 5.0 | R | √3 | 1 | 1 | 2.9 | 2.9 | ∞ |
| **Phantom and set-up** | | | | | | | | | | |
| 17 | Phantom uncertainty | B | 4.0 | R | √3 | 1 | 1 | 2.3 | 2.3 | ∞ |
| 18 | Liquid conductivity (target) | B | 5.0 | R | √3 | 0.64 | 0.43 | 1.8 | 1.2 | ∞ |
| 19 | Liquid conductivity (meas.) | A | 2.06 | N | 1 | 0.64 | 0.43 | 1.32 | 0.89 | 43 |
| 20 | Liquid permittivity (target) | B | 5.0 | R | √3 | 0.6 | 0.49 | 1.7 | 1.4 | ∞ |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 21 | Liquid permittivity (meas.) | A | 1.6 | N | 1 | 0.6 | 0.49 | 1.0 | 0.8 | 521 |
| Combined standard uncertainty | | $u_c^{'} = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$ | | | | | | 10.7 | 10.6 | 257 |
| Expanded uncertainty (confidence interval of 95 %) | | $u_e = 2u_c$ | | | | | | 21.4 | 21.1 | |

## 16.3 Measurement Uncertainty for Fast SAR Tests (300MHz~3GHz)

| No. | Error Description | Type | Uncertainty value | Probably Distribution | Div. | (Ci) 1g | (Ci) 10g | Std. Unc. (1g) | Std. Unc. (10g) | Degree of freedom |
|---|---|---|---|---|---|---|---|---|---|---|
| **Measurement system** | | | | | | | | | | |
| 1 | Probe calibration | B | 6.0 | N | 1 | 1 | 1 | 6.0 | 6.0 | ∞ |
| 2 | Isotropy | B | 4.7 | R | $\sqrt{3}$ | 0.7 | 0.7 | 1.9 | 1.9 | ∞ |
| 3 | Boundary effect | B | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 | ∞ |
| 4 | Linearity | B | 4.7 | R | $\sqrt{3}$ | 1 | 1 | 2.7 | 2.7 | ∞ |
| 5 | Detection limit | B | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 | ∞ |
| 6 | Readout electronics | B | 0.3 | R | $\sqrt{3}$ | 1 | 1 | 0.3 | 0.3 | ∞ |
| 7 | Response time | B | 0.8 | R | $\sqrt{3}$ | 1 | 1 | 0.5 | 0.5 | ∞ |
| 8 | Integration time | B | 2.6 | R | $\sqrt{3}$ | 1 | 1 | 1.5 | 1.5 | ∞ |
| 9 | RF ambient conditions-noise | B | 0 | R | $\sqrt{3}$ | 1 | 1 | 0 | 0 | ∞ |
| 10 | RFambient conditions-reflection | B | 0 | R | $\sqrt{3}$ | 1 | 1 | 0 | 0 | ∞ |
| 11 | Probe positioned mech. Restrictions | B | 0.4 | R | $\sqrt{3}$ | 1 | 1 | 0.2 | 0.2 | ∞ |
| 12 | Probe positioning with respect to phantom shell | B | 2.9 | R | $\sqrt{3}$ | 1 | 1 | 1.7 | 1.7 | ∞ |
| 13 | Post-processing | B | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 | ∞ |
| 14 | Fast SAR z-Approximation | B | 7.0 | R | $\sqrt{3}$ | 1 | 1 | 4.0 | 4.0 | ∞ |
| **Test sample related** | | | | | | | | | | |
| 15 | Test sample positioning | A | 3.3 | N | 1 | 1 | 1 | 3.3 | 3.3 | 71 |
| 16 | Device holder uncertainty | A | 3.4 | N | 1 | 1 | 1 | 3.4 | 3.4 | 5 |
| 17 | Drift of output power | B | 5.0 | R | $\sqrt{3}$ | 1 | 1 | 2.9 | 2.9 | ∞ |
| **Phantom and set-up** | | | | | | | | | | |
| 18 | Phantom uncertainty | B | 4.0 | R | $\sqrt{3}$ | 1 | 1 | 2.3 | 2.3 | ∞ |
| 19 | Liquid conductivity (target) | B | 5.0 | R | $\sqrt{3}$ | 0.64 | 0.43 | 1.8 | 1.2 | ∞ |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 20 | Liquid conductivity (meas.) | A | 2.06 | N | 1 | 0.64 | 0.43 | 1.32 | 0.89 | 43 |
| 21 | Liquid permittivity (target) | B | 5.0 | R | $\sqrt{3}$ | 0.6 | 0.49 | 1.7 | 1.4 | ∞ |
| 22 | Liquid permittivity (meas.) | A | 1.6 | N | 1 | 0.6 | 0.49 | 1.0 | 0.8 | 521 |
| Combined standard uncertainty | | $u_c^{'} = \sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$ | | | | | | 10.4 | 10.3 | 257 |
| Expanded uncertainty (confidence interval of 95 %) | | $u_e = 2u_c$ | | | | | | 20.8 | 20.6 | |

## 16.4 Measurement Uncertainty for Fast SAR Tests (3~6GHz)

| No. | Error Description | Type | Uncertainty value | Probably Distribution | Div. | (Ci) 1g | (Ci) 10g | Std. Unc. (1g) | Std. Unc. (10g) | Degree of freedom |
|---|---|---|---|---|---|---|---|---|---|---|
| **Measurement system** | | | | | | | | | | |
| 1 | Probe calibration | B | 6.55 | N | 1 | 1 | 1 | 6.55 | 6.55 | ∞ |
| 2 | Isotropy | B | 4.7 | R | $\sqrt{3}$ | 0.7 | 0.7 | 1.9 | 1.9 | ∞ |
| 3 | Boundary effect | B | 2.0 | R | $\sqrt{3}$ | 1 | 1 | 1.2 | 1.2 | ∞ |
| 4 | Linearity | B | 4.7 | R | $\sqrt{3}$ | 1 | 1 | 2.7 | 2.7 | ∞ |
| 5 | Detection limit | B | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 | ∞ |
| 6 | Readout electronics | B | 0.3 | R | $\sqrt{3}$ | 1 | 1 | 0.3 | 0.3 | ∞ |
| 7 | Response time | B | 0.8 | R | $\sqrt{3}$ | 1 | 1 | 0.5 | 0.5 | ∞ |
| 8 | Integration time | B | 2.6 | R | $\sqrt{3}$ | 1 | 1 | 1.5 | 1.5 | ∞ |
| 9 | RF ambient conditions-noise | B | 0 | R | $\sqrt{3}$ | 1 | 1 | 0 | 0 | ∞ |
| 10 | RFambient conditions-reflection | B | 0 | R | $\sqrt{3}$ | 1 | 1 | 0 | 0 | ∞ |
| 11 | Probe positioned mech. Restrictions | B | 0.8 | R | $\sqrt{3}$ | 1 | 1 | 0.5 | 0.5 | ∞ |
| 12 | Probe positioning with respect to phantom shell | B | 6.7 | R | $\sqrt{3}$ | 1 | 1 | 3.9 | 3.9 | ∞ |
| 13 | Post-processing | B | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 | ∞ |
| 14 | Fast SAR z-Approximation | B | 14.0 | R | $\sqrt{3}$ | 1 | 1 | 8.1 | 8.1 | ∞ |
| **Test sample related** | | | | | | | | | | |
| 15 | Test sample positioning | A | 3.3 | N | 1 | 1 | 1 | 3.3 | 3.3 | 71 |
| 16 | Device holder uncertainty | A | 3.4 | N | 1 | 1 | 1 | 3.4 | 3.4 | 5 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | Drift of output power | B | 5.0 | R | $\sqrt{3}$ | 1 | 1 | 2.9 | 2.9 | ∞ |
| **Phantom and set-up** | | | | | | | | | | |
| 18 | Phantom uncertainty | B | 4.0 | R | $\sqrt{3}$ | 1 | 1 | 2.3 | 2.3 | ∞ |
| 19 | Liquid conductivity (target) | B | 5.0 | R | $\sqrt{3}$ | 0.64 | 0.43 | 1.8 | 1.2 | ∞ |
| 20 | Liquid conductivity (meas.) | A | 2.06 | N | 1 | 0.64 | 0.43 | 1.32 | 0.89 | 43 |
| 21 | Liquid permittivity (target) | B | 5.0 | R | $\sqrt{3}$ | 0.6 | 0.49 | 1.7 | 1.4 | ∞ |
| 22 | Liquid permittivity (meas.) | A | 1.6 | N | 1 | 0.6 | 0.49 | 1.0 | 0.8 | 521 |
| Combined standard uncertainty | | $u_c^{'} = \sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$ | | | | | | 13.5 | 13.4 | 257 |
| Expanded uncertainty (confidence interval of 95 %) | | $u_e = 2u_c$ | | | | | | 27.0 | 26.8 | |

# 17 MAIN TEST INSTRUMENTS

**Table 17.1: List of Main Instruments**

| No. | Name | Type | Serial Number | Calibration Date | Valid Period |
|---|---|---|---|---|---|
| 01 | Network analyzer | N5239A | MY55491241 | May 21, 2024 | One year |
| 02 | Power sensor | NRP50S | 101488 | June 5, 2024 | One year |
| 03 | Power sensor | NRP50S | 101489 | | |
| 04 | Signal Generator | MG3700A | 6201052605 | June 12 2024 | One Year |
| 05 | Amplifier | 60S1G4 | 0331848 | No Calibration Requested | |
| 06 | BTS | CMW500 | 170618 | April 8, 2024 | One year |
| 07 | DAE | SPEAG DAE4 | 1331 | September 13,2024 | One year |
| 08 | E-field Probe | SPEAG EX3DV4 | 7673 | July 29,2024 | One year |
| 09 | DAE | SPEAG DAE4 | 1807 | May 14,2024 | One year |
| 10 | E-field Probe | SPEAG EX3DV4 | 3846 | June 19，2024 | One year |
| 11 | Dipole Validation Kit | SPEAG D750V3 | 1017 | July 9,2024 | One year |
| 12 | Dipole Validation Kit | SPEAG D835V2 | 4d069 | July 9,2024 | One year |
| 13 | Dipole Validation Kit | SPEAG D1750V2 | 1003 | July 11,2024 | One year |
| 14 | Dipole Validation Kit | SPEAG D1900V2 | 5d101 | July 8,2024 | One year |
| 15 | Dipole Validation Kit | SPEAG D2450V2 | 853 | July 10,2024 | One year |
| 16 | Dipole Validation Kit | SPEAG D2600V2 | 1012 | July 10,2024 | One year |
| 17 | Dipole Validation Kit | SPEAG D3300V2 | 1011 | June 13,2024 | One year |
| 18 | Dipole Validation Kit | SPEAG D3500V2 | 1016 | June 13,2024 | One year |
| 19 | Dipole Validation Kit | SPEAG D3700V2 | 1004 | June 13,2024 | One year |
| 20 | Dipole Validation Kit | SPEAG D3900V2 | 1024 | June 14,2024 | One year |
| 21 | Dipole Validation Kit | SPEAG D4200V2 | 1010 | June 14,2024 | One year |
| 22 | Dipole Validation Kit | SPEAG D5GHzV2 | 1060 | June 12,2024 | One year |

***END OF REPORT BODY***

## Appendixes

**Refer to separated files for the following appendixes**

**ANNEX A Graph Results**

***ANNEX B System Verification Results***

**ANNEX C SAR Measurement Setup**

**ANNEX D Position of the wireless device in relation to the phantom**

**ANNEX E Equivalent Media Recipes**

**ANNEX F System Validation**

**ANNEX G Probe Calibration Certificate**

**ANNEX H Dipole Calibration Certificate**

**ANNEX I Accreditation Certificate**