TESTING
NVLAP LAB CODE 600118-0

# SAR TEST REPORT

## No. I21Z60613-SEM06

**For**

**Wingtech Mobile Communications Co.,Ltd.**

**5G Mobile Phone**

**Model Name: WTCELERO5G**

**with**

**Hardware Version: V1.0**

**Software Version: WTCELERO5G_0.01.01**

**FCC ID: 2APXW-WTCELERO5G**

**Issued Date: 2021-6-22**

**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.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S.Government.

Test Laboratory:

CTTL, Telecommunication Technology Labs, CAICT

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

## REPORT HISTORY

| Report Number | Revision | Issue Date | Description |
|---|---|---|---|
| I21Z60613-SEM06 | Rev.0 | 2021-6-22 | Initial creation of test report |

# TABLE OF CONTENT

# 1 Test Laboratory

## 1.1 Testing Location

| | |
|---|---|
| Company Name: | CTTL(Shouxiang) |
| Address: | No. 51, Xueyuan Road, Haidian District, Beijing, P. R. China 100191. |

## 1.2 Testing Environment

| | |
|---|---|
| Temperature: | 18°C~25°C, |
| Relative humidity: | 30%~ 70% |
| Ground system resistance: | < 0.5 Ω |
| Ambient noise & Reflection: | < 0.012 W/kg |

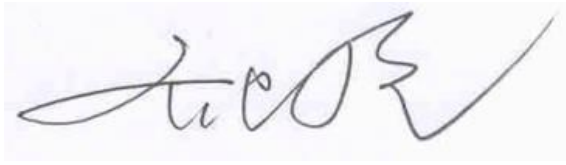
## 1.3 Project Data

| | |
|---|---|
| Project Leader: | Qi Dianyuan |
| Test Engineer: | Yao Juming |
| Testing Start Date: | June 2, 2021 |
| Testing End Date: | June 14, 2021 |

## 1.4 Signature

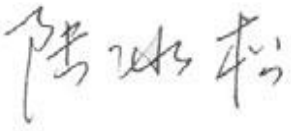
**Yao Juming**

**(Prepared this test report)**



**Qi Dianyuan**

**(Reviewed this test report)**



**Lu Bingsong**

**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 Wingtech Group (Hong Kong) Limited. 5G Mobile Phone WTCELERO5G is as follows:

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

| Technology Band | Head (Separation Distance 0mm) | Hotspot (Separation Distance 10mm) | Body-Worn (Separation Distance 15mm) | Phablet-10g (Separation Distance 0mm) | Equipment Class |
|---|---|---|---|---|---|
| GSM850 | **0.25** | **0.74** | / | / | PCE |
| GSM1900 | **0.23** | **0.59** | **0.43** | / | |
| WCDMA1900 | **0.49** | **0.40** | **0.44** | / | |
| WCDMA1700 | **0.56** | **0.42** | **0.65** | / | |
| WCDMA 850 | **0.35** | **0.61** | / | / | |
| LTE Band2-ANT1 | **0.46** | **0.41** | **0.46** | / | |
| LTE Band2-ANT4 | **0.67** | **0.71** | **0.36** | / | |
| LTE Band7 | **0.31** | **0.33** | **0.35** | / | |
| LTE Band12 | **0.17** | **0.34** | / | / | |
| LTE Band13 | **0.27** | **0.47** | / | / | |
| LTE Band25 | **0.47** | **0.52** | **0.46** | / | |
| LTE Band26 | **0.30** | **0.68** | / | / | |
| LTE Band38 | **0.18** | **0.42** | **0.34** | / | |
| LTE Band41-PC3 | **0.20** | **0.28** | **0.37** | / | |
| LTE Band41-PC2 | **0.22** | **0.39** | **0.33** | / | |
| LTE Band66-ANT1 | **0.27** | **0.50** | **0.58** | / | |
| LTE Band66-ANT4 | **0.54** | **0.21** | **0.14** | / | |
| LTE Band71 | **0.08** | **0.28** | / | / | |
| 5G NR n25-ANT1 | **0.28** | **0.42** | **0.44** | / | |
| 5G NR n25-ANT4 | **0.75** | **0.68** | **0.32** | / | |
| 5G NR n41 | **0.68** | **0.62** | **0.41** | / | |
| 5G NR n66-ANT1 | **0.28** | **0.31** | **0.50** | / | |
| 5G NR n66-ANT4 | **0.73** | **0.28** | / | / | |
| 5G NR n71 | **0.07** | **0.16** | / | / | |
| WLAN 2.4GHz | **1.07** | **0.20** | **0.06** | / | DTS |
| WLAN 5GHz | **1.08** | **0.40** | **0.40** | / | NII |

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 15/10 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**: 1.08 W/kg(1g).**

Remark：
This device supports both LTE B4/B5 and LTE B66/B26.Since the supported frequency span for LTE B4/B5 falls completely within the supports frequency span for LTE B66/B26, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE B66/B26.

**Table 2.2: The sum of SAR values for Main antenna + WiFi-2.4G**

| | Position | Main antenna | WiFi-2.4G | Sum |
|---|---|---|---|---|
| **Highest SAR value for Head** | Left head, Tilt (ENDC 66A-n25A) | 0.78 | 0.56 | **1.34** |
| **Highest SAR value for Body** | Rear 10mm (ULCA 2A-12A) | 1.05 | 0.33 | **1.38** |

**Table 2.3: The sum of SAR values for Main antenna + WiFi-5G**

| | Position | Main antenna | WiFi-5G | Sum |
|---|---|---|---|---|
| **Highest SAR value for Head** | Left head, Tilt (ENDC 66A-n25A) | 0.78 | 0.75 | **1.53** |
| **Highest SAR value for Body** | Rear 15mm (ENDC 66A-n41A) | 0.99 | 0.40 | **1.39** |

**Table 2.4: The sum of SAR values for Main antenna +BT**

| | Position | Main antenna | BT | Sum |
|---|---|---|---|---|
| **Highest SAR value for Head** | Right head, Touch (ENDC 2A-n41A) | 0.94 | <0.01 | **0.94** |
| **Highest SAR value for Body** | Rear 10mm (ENDC 12A-n25A) | 1.02 | <0.01 | **1.02** |

**Table 2.5: The sum of SAR values for Main antenna + Wifi2.4G +BT**

| | Position | Main antenna | WiFi-2.4G | BT | Sum |
|---|---|---|---|---|---|
| **Highest SAR value for Head** | Left head, Tilt (ENDC 66A-n25A) | 0.78 | 0.56 | <0.01 | **1.34** |
| **Highest SAR value for Body** | Rear 10mm (ULCA 2A-12A) | 1.05 | 0.33 | <0.01 | **1.38** |

**Table 2.6: The sum of SAR values for Main antenna + Wifi5G +BT**

| | Position | Main antenna | WiFi-5G | BT | Sum |
|---|---|---|---|---|---|
| **Highest SAR value for Head** | Left head, Tilt (ENDC 66A-n25A) | 0.78 | 0.75 | <0.01 | **1.53** |
| **Highest SAR value for Body** | Rear 15mm (ENDC 66A-n41A) | 0.99 | 0.40 | <0.01 | **1.39** |

According to the above tables, the highest sum of reported SAR values is **1.53 W/kg (1g)**. The detail for simultaneous transmission consideration is described in chapter 13.

**Table 2.7: The SAR values for UL CA**

| LTE Band | LTE Band | Mode | Position | Reported SAR 1g(W/kg) |
|---|---|---|---|---|
| LTE Band 2-ANT4 | LTE Band 12-ANT0 | Head | Right Tilt | **0.83(0.67+0.16)** |
| | | Body | Rear 10mm | **1.05(0.71+0.34)** |
| LTE Band 12-ANT0 | LTE Band 66-ANT4 | Head | Right Tilt | **0.54(0.16+0.38)** |
| | | Body | Rear 10mm | **0.55(0.34+0.21)** |

**Table 2.8: The SAR values for ENDC**

| LTE | NR | Mode | Position | Reported SAR 1g(W/kg) |
|---|---|---|---|---|
| LTE Band 2-ANT1 | n41 | Head | Right Tilt | **0.94(0.26+0.68)** |
| | | Body | Rear 15mm | **0.87(0.46+0.41)** |
| | n66-ANT4 | Head | Left Cheek | **0.64(0.48+0.18)** |
| | | Body | Rear 15mm | **0.60(0.46+0.14)** |
| LTE Band 2-ANT4 | n71 | Head | Right Tilt | **0.67(0.67+0.00)** |
| | | Body | Rear 10mm | **0.87(0.71+0.16)** |
| LTE Band 12 | n25-ANT4 | Head | Right Tilt | **0.91(0.16+0.75)** |
| | | Body | Rear 10mm | **1.02(0.34+0.68)** |
| | n66-ANT4 | Head | Right Tilt | **0.54(0.16+0.38)** |
| | | Body | Rear 10mm | **0.55(0.34+0.21)** |
| LTE Band 66-ANT1 | n25-ANT4 | Head | Right Tilt | **0.92(0.17+0.75)** |
| | | Body | Rear 10mm | **0.95(0.27+0.68)** |
| | n41 | Head | Right Tilt | **0.85(0.17+0.68)** |
| | | Body | Rear 15mm | **0.99(0.58+0.41)** |
| LTE Band 66-ANT4 | n71 | Head | Right Cheek | **0.41(0.34+0.07)** |
| | | Body | Rear 10mm | **0.37(0.21+0.16)** |

**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.

# 3 Client Information

## 3.1 Applicant Information

| | |
|---|---|
| Company Name: | Wingtech Group (Hong Kong) Limited |
| Address/Post: | Flat/RM 1903, 19/F, Podium Plaza 5 Hanoi Road, Tsim Sha Tsui Kowloon, Hong Kong |
| Contact Person: | NA |
| Contact Email: | NA |
| Telephone: | NA |

## 3.2 Manufacturer Information

| | |
|---|---|
| Company Name: | Wingtech Group (Hong Kong) Limited |
| Address/Post: | Flat/RM 1903, 19/F, Podium Plaza 5 Hanoi Road, Tsim Sha Tsui Kowloon, Hong Kong |
| Contact Person: | NA |
| Contact Email: | NA |
| Telephone: | NA |

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

## 4.1 About EUT

| | |
|---|---|
| Description: | 5G Mobile Phone |
| Model name: | WTCELERO5G |
| Operating mode(s): | GSM850/900/1800/1900,<br>WCDMA B1/B2/B4/B5/B8<br>LTEBand1/2/3/4/5/7/8/12/13/20/25/26/28/38/40/41/66/71<br>BT, Wi-Fi(2.4G/5G)<br>5G NR n2/n5/n25/n26/n41/n71/n77 |
| Tested Tx Frequency: | 824 – 849 MHz (GSM 850) |
| | 1850 – 1910 MHz (GSM 1900) |
| | 824 – 849 MHz (WCDMA 850 Band V) |
| | 1850 – 1910 MHz (WCDMA1900 Band IV) |
| | 1710-1755 MHz (WCDMA1700 Band II) |
| | 1850.7 – 1909.3 MHz (LTE Band 2) |
| | 2502.5 – 2567.5 MHz (LTE Band 7) |
| | 699.7 – 715.3 MHz (LTE Band 12) |
| | 779.5 – 784.5 MHz (LTE Band 13) |
| | 1850.7–1914.3 MHz (LTE Band 25) |
| | 814.7–848.3 MHz (LTE Band 26) |
| | 2498.5 – 2687.5 MHz (LTE Band41) |
| | 1710.7 –1779.3 MHz (LTE Band 66) |
| | 665.5 –695.5 MHz (LTE Band 71) |
| | 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 – 1915 MHz(n25) |
| | 2496 – 2690 MHz(n41) |
| | 1710 – 1780 MHz(n66) |
| | 663 – 698 MHz(n71) |
| GPRS/EGPRS Multislot Class: | 12 |
| 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 | 862533050007639 | V1.0 | WTCELERO5G_0.01.01 |
| EUT2 | 862533050007589 | V1.0 | WTCELERO5G_0.01.01 |
| EUT3 | 862533050007597 | V1.0 | WTCELERO5G_0.01.01 |
| EUT4 | 862533050007506 | V1.0 | WTCELERO5G_0.01.01 |
| EUT5 | 862533050007613 | V1.0 | WTCELERO5G_0.01.01 |
| EUT6 | 862533050001194 | V1.0 | WTCELERO5G_0.01.01 |
| EUT7 | 862533050002754 | V1.0 | WTCELERO5G_0.01.01 |
| EUT8 | 862533050002556 | V1.0 | WTCELERO5G_0.01.01 |
| EUT9 | 862533050002671 | V1.0 | WTCELERO5G_0.01.01 |
| EUT10 | 862533050002655 | V1.0 | WTCELERO5G_0.01.01 |
| EUT11 | 862533050002663 | V1.0 | WTCELERO5G_0.01.01 |
| EUT12 | 862533050002739 | V1.0 | WTCELERO5G_0.01.01 |

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

**Note:** It is performed to test SAR with the EUT1~5 and conducted power with the EUT6~12.

## 4.3 Internal Identification of AE used during the test

| AE ID* | Description | Model | SN | Manufacturer |
|---|---|---|---|---|
| AE1 | Battery | JU001 | / | Jiade Energy Technology（Zhuhai）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.

## 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**

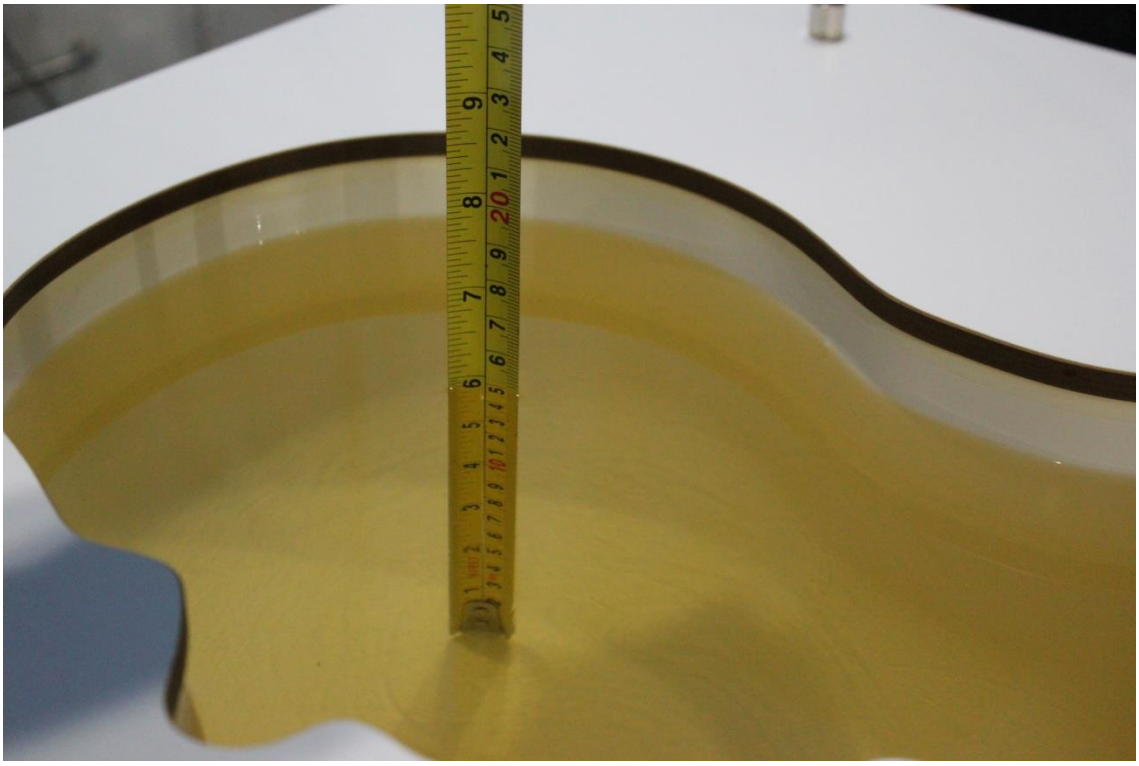
| Frequency(MHz) | Liquid Type | Conductivity(σ) | ± 5% Range | Permittivity(ε) | ± 5% Range |
|---|---|---|---|---|---|
| 750 | Head | 0.89 | 0.85～0.93 | 41.94 | 39.8～44.0 |
| 835 | Head | 0.90 | 0.86～0.95 | 41.5 | 39.4～43.6 |
| 1750 | Head | 1.37 | 1.30～1.44 | 40.08 | 38.1～42.1 |
| 1900 | Head | 1.40 | 1.33～1.47 | 40.0 | 38.0～42.0 |
| 2450 | Head | 1.67 | 1.59～1.75 | 39.47 | 37.5～41.4 |
| 2600 | Head | 1.96 | 1.86～2.06 | 39.01 | 37.1～41.0 |
| 5250 | Head | 4.66 | 4.43～4.89 | 35.99 | 34.19～37.79 |
| 5600 | Head | 5.07 | 4.82～5.32 | 35.53 | 33.75～37.31 |
| 5750 | Head | 5.27 | 5.01～5.53 | 35.3 | 33.5～37.1 |

## 7.2 Dielectric Performance

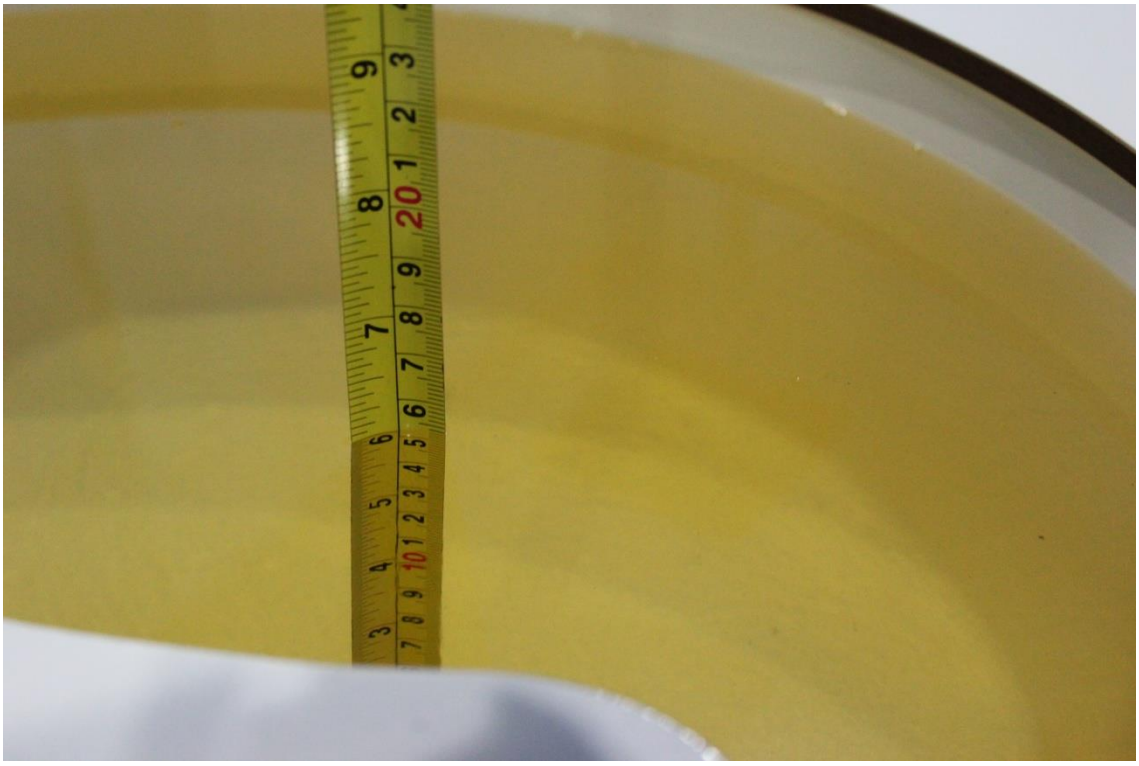
**Table 7.2: Dielectric Performance of Tissue Simulating Liquid**

| Measurement Date (yyyy-mm-dd) | Type | Frequency | Permittivity ε | Drift (%) | Conductivity σ (S/m) | Drift (%) |
|---|---|---|---|---|---|---|
| 2021-6-2 | Head | 750 MHz | 42.22 | 0.67 | 0.881 | -1.01 |
| 2021-6-3 | Head | 750 MHz | 42.13 | 0.45 | 0.873 | -1.91 |
| 2021-6-4 | Head | 835 MHz | 41.72 | 0.53 | 0.91 | 1.11 |
| 2021-6-5 | Head | 1750 MHz | 40.85 | 1.92 | 1.358 | -0.88 |
| 2021-6-6 | Head | 1750 MHz | 40.25 | 0.42 | 1.36 | -0.73 |
| 2021-6-7 | Head | 1900 MHz | 40.17 | 0.43 | 1.418 | 1.29 |
| 2021-6-8 | Head | 1900 MHz | 39.81 | -0.47 | 1.396 | -0.29 |
| 2021-6-9 | Head | 2450 MHz | 39.01 | -0.48 | 1.797 | -0.17 |
| 2021-6-10 | Head | 2600 MHz | 38.96 | -0.13 | 1.985 | 1.28 |
| 2021-6-11 | Head | 2600 MHz | 38.44 | -1.46 | 1.966 | 0.31 |
| 2021-6-12 | Head | 5250 MHz | 35.52 | -1.14 | 4.685 | -0.53 |
| 2021-6-13 | Head | 5600 MHz | 35.74 | 0.59 | 5.019 | -1.01 |
| 2021-6-14 | Head | 5750 MHz | 35.92 | 1.58 | 5.161 | -1.13 |

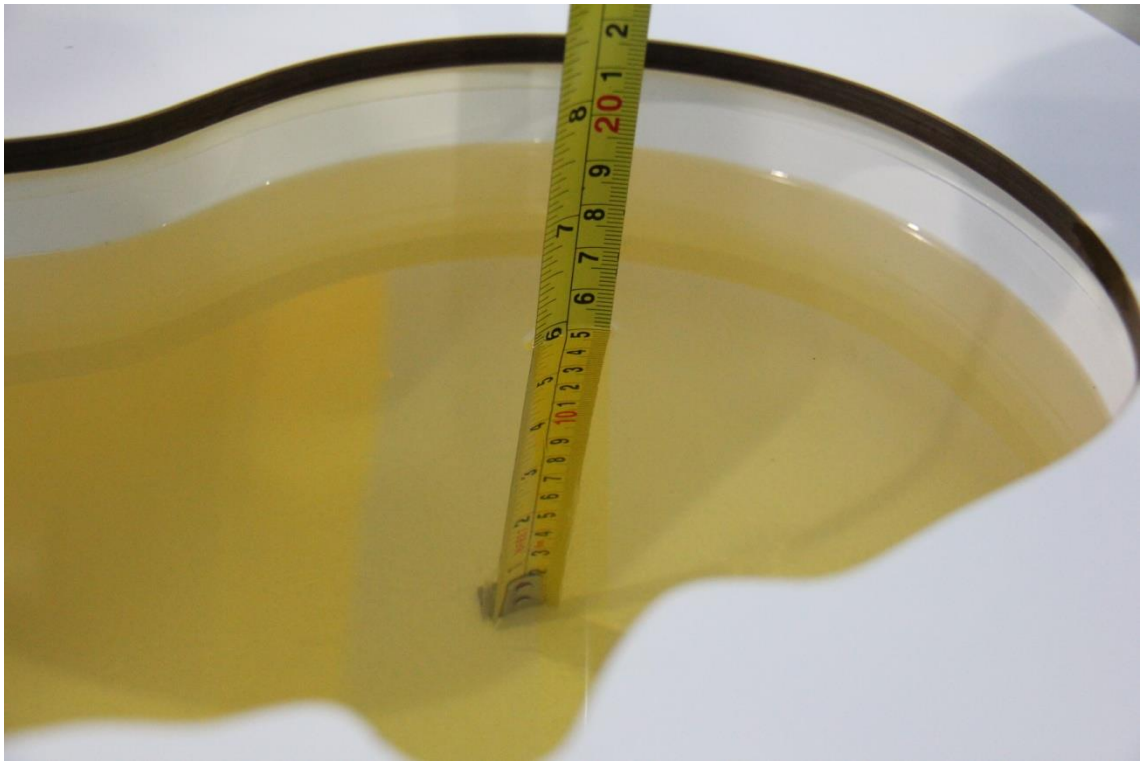
Note: The liquid temperature is 22.0℃



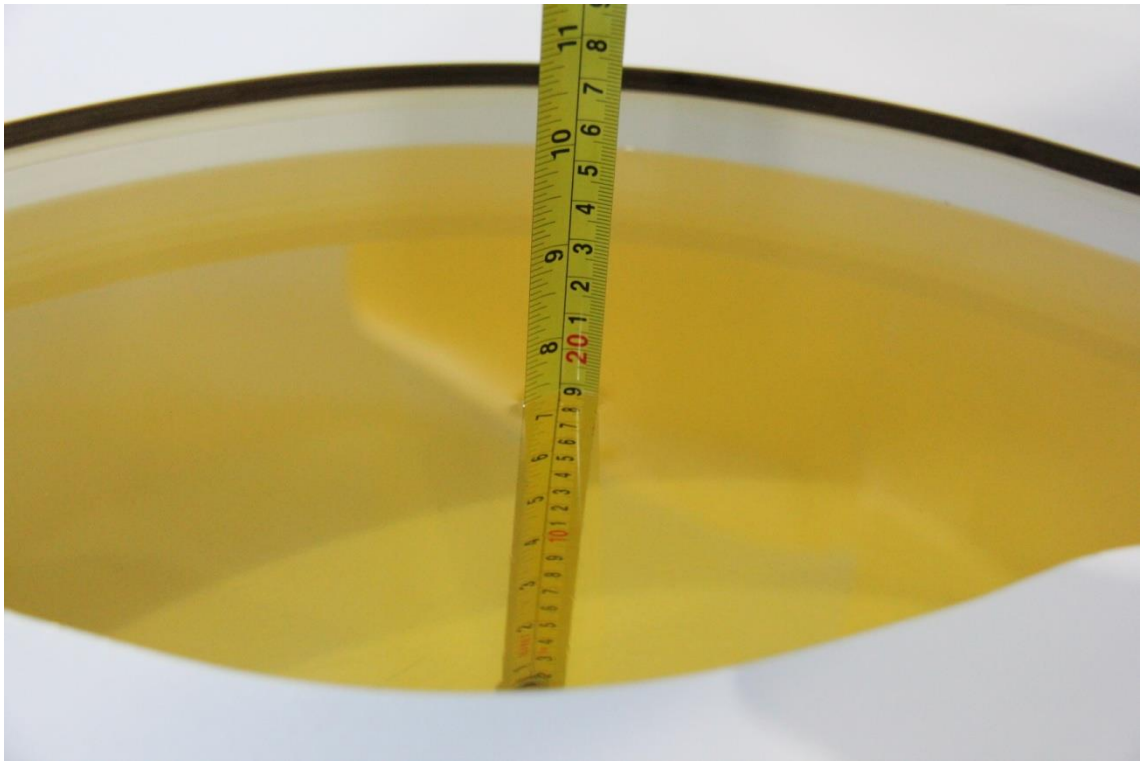
**Picture 7-1 Liquid depth in the Head Phantom (750MHz)**



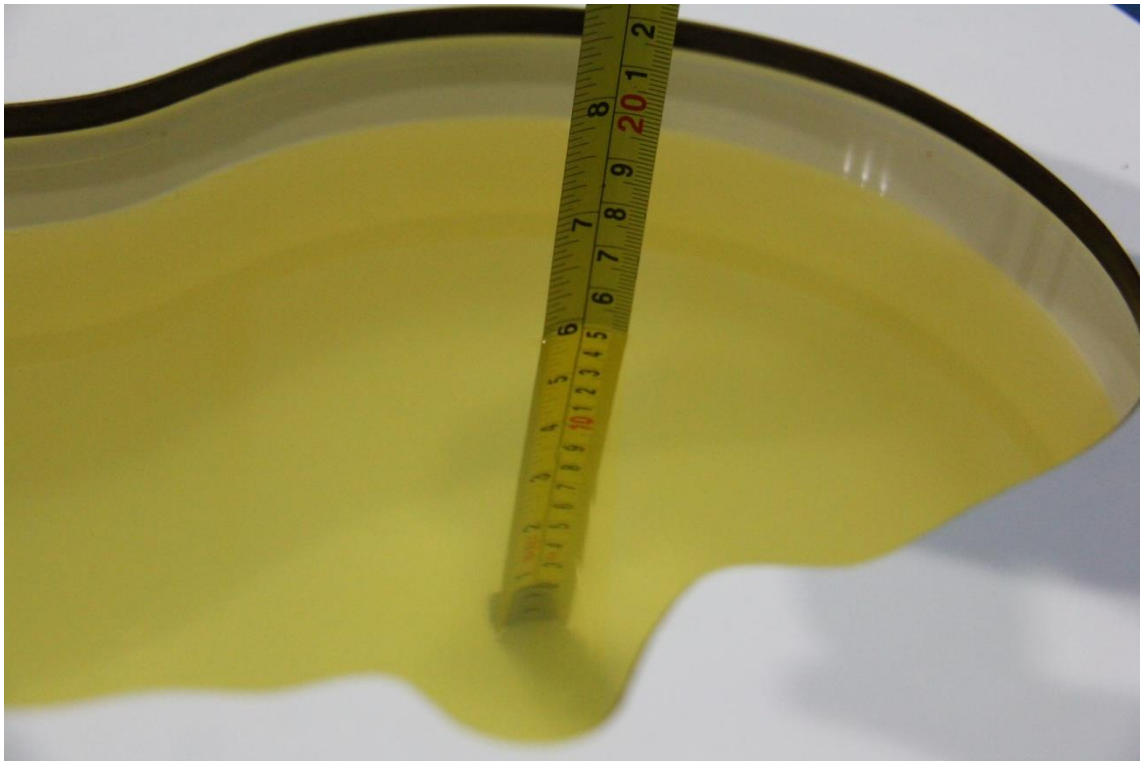
**Picture 7-2 Liquid depth in the Flat Phantom (750MHz)**



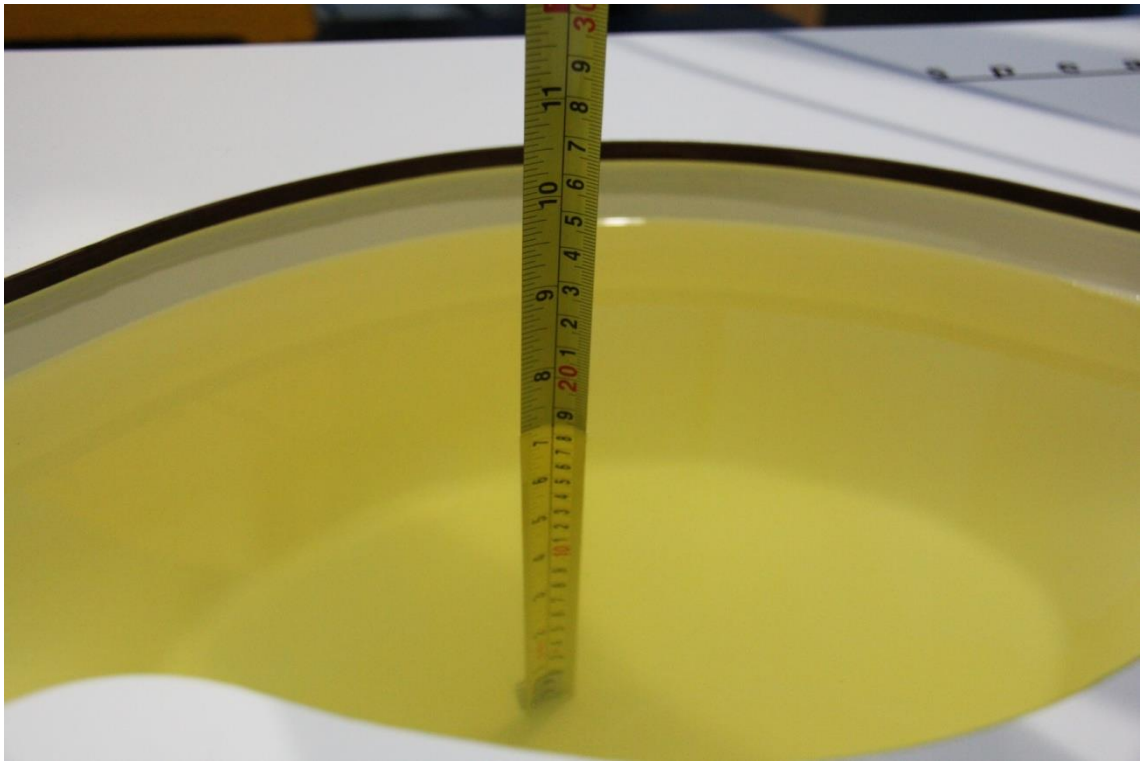
**Picture 7-3 Liquid depth in the Head Phantom (835 MHz)**



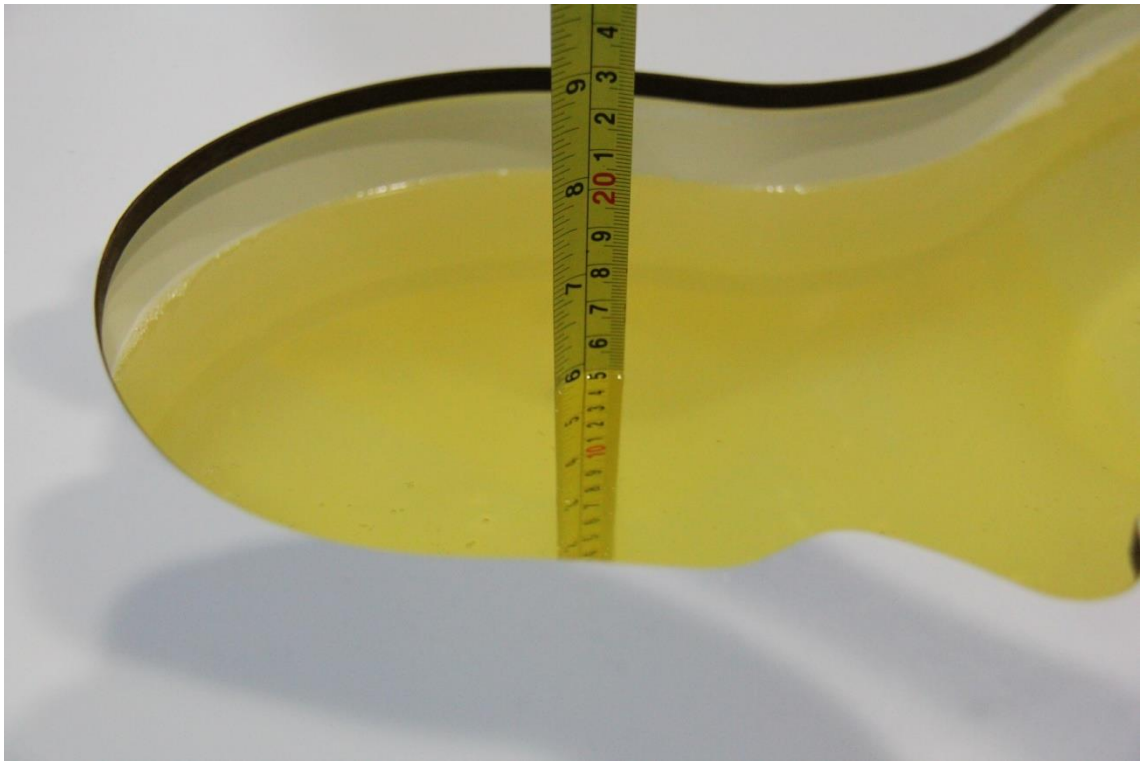
**Picture 7-4 Liquid depth in the Flat Phantom (835 MHz)**



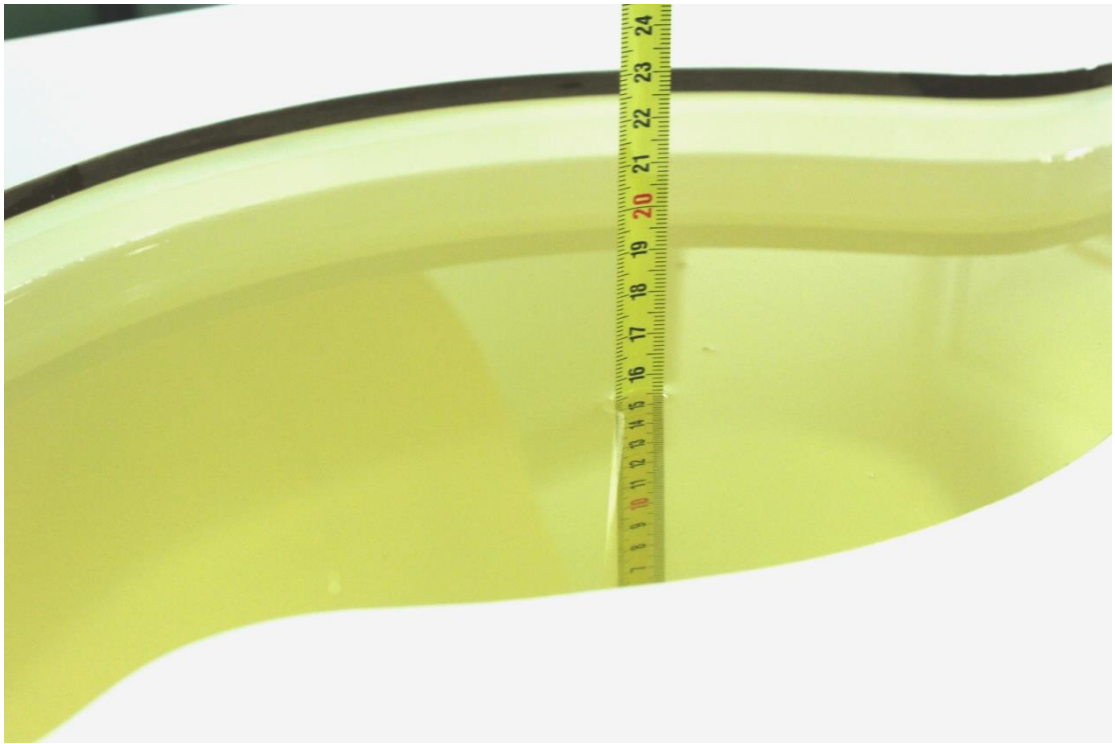
**Picture 7-5 Liquid depth in the Head Phantom (1900 MHz)**



**Picture 7-6 Liquid depth in the Flat Phantom (1900MHz)**

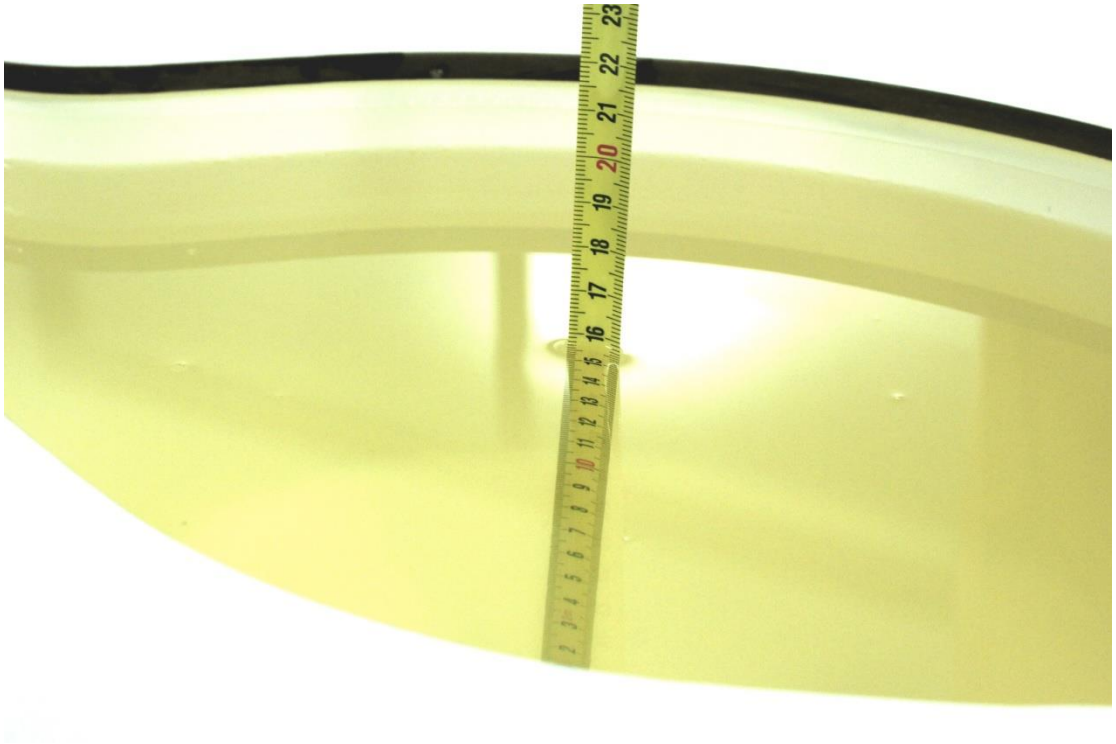


**Picture 7-7 Liquid depth in the Head Phantom (2450MHz)**

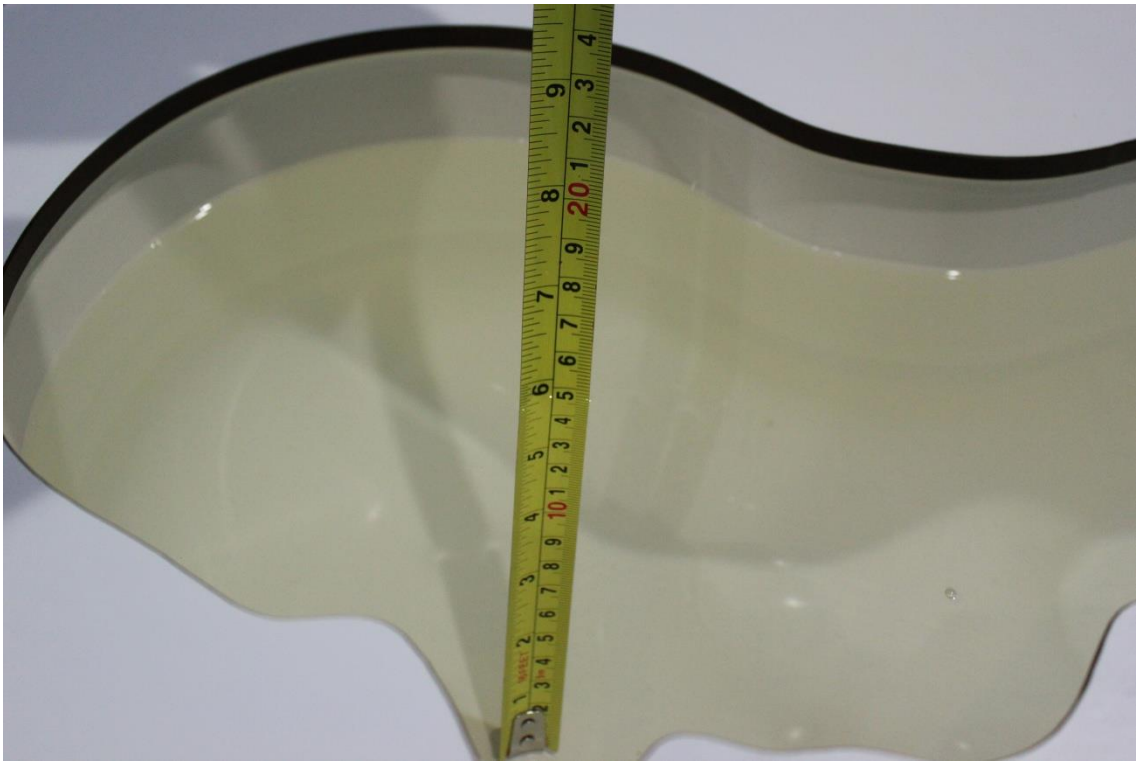


**Picture 7-8 Liquid depth in the Flat Phantom (2450MHz)**

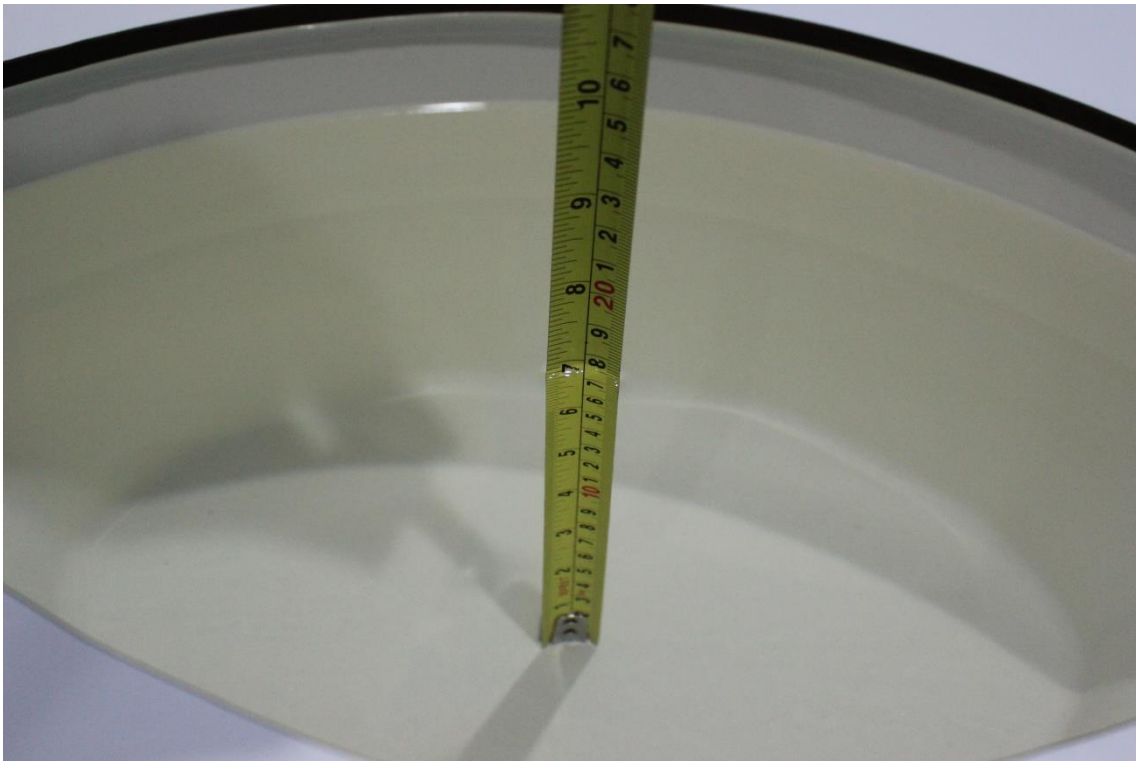
**Picture 7-9 Liquid depth in the Head Phantom (2600 MHz)**



**Picture 7-10 Liquid depth in the Flat Phantom (2600MHz)**



**Picture 7-11 Liquid depth in the Head Phantom (5GHz)**

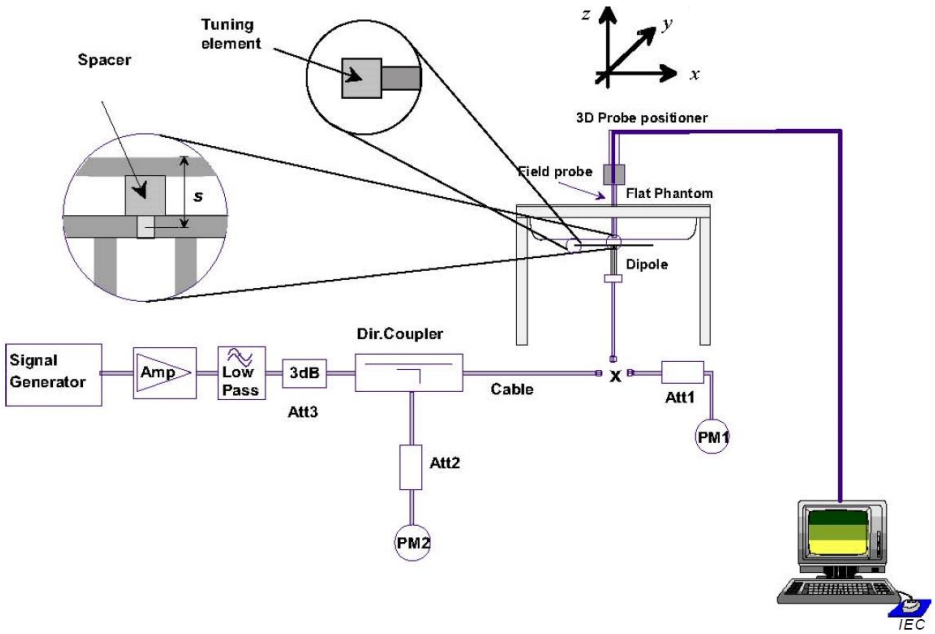


**Picture 7-12 Liquid depth in the Flat Phantom (5GHz)**

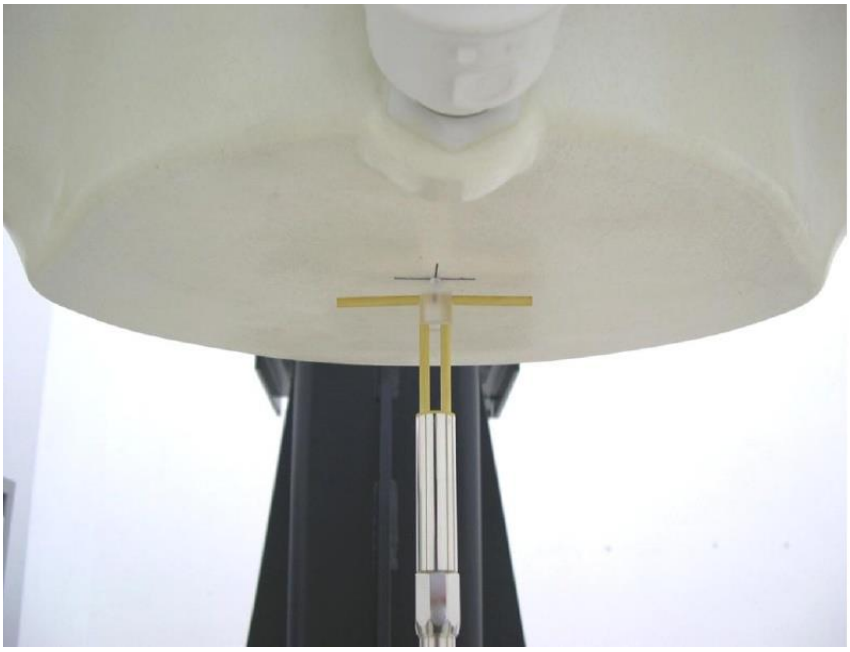
# 8 System verification

## 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. The details are presented in annex B.

**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 |
| 2021-6-2 | 750 MHz | 5.53 | 8.47 | 5.44 | 8.48 | -1.63% | 0.12% |
| 2021-6-3 | 750 MHz | 5.53 | 8.47 | 5.56 | 8.52 | 0.54% | 0.59% |
| 2021-6-4 | 835 MHz | 6.25 | 9.60 | 6.24 | 9.72 | -0.16% | 1.25% |
| 2021-6-5 | 1750 MHz | 19.1 | 36.5 | 18.96 | 36.64 | -0.73% | 0.38% |
| 2021-6-6 | 1750 MHz | 19.1 | 36.5 | 18.92 | 36.52 | -0.94% | 0.05% |
| 2021-6-7 | 1900 MHz | 20.6 | 39.6 | 20.44 | 39.6 | -0.78% | 0.00% |
| 2021-6-8 | 1900 MHz | 20.6 | 39.6 | 20.64 | 40.08 | 0.19% | 1.21% |
| 2021-6-9 | 2450 MHz | 24.5 | 52.5 | 24.04 | 52.92 | -1.88% | 0.80% |
| 2021-6-10 | 2600 MHz | 25.3 | 57.0 | 24.84 | 57.48 | -1.82% | 0.84% |
| 2021-6-11 | 2600 MHz | 25.3 | 57.0 | 25.44 | 57.12 | 0.55% | 0.21% |
| 2021-6-12 | 5250 MHz | 22.9 | 80.5 | 22.7 | 80.2 | -0.79% | -0.42% |
| 2021-6-13 | 5600 MHz | 23.6 | 83.3 | 23.4 | 83.0 | -0.85% | -0.41% |
| 2021-6-14 | 5750 MHz | 22.7 | 80.4 | 22.7 | 80.0 | 0.09% | -0.55% |

# 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.

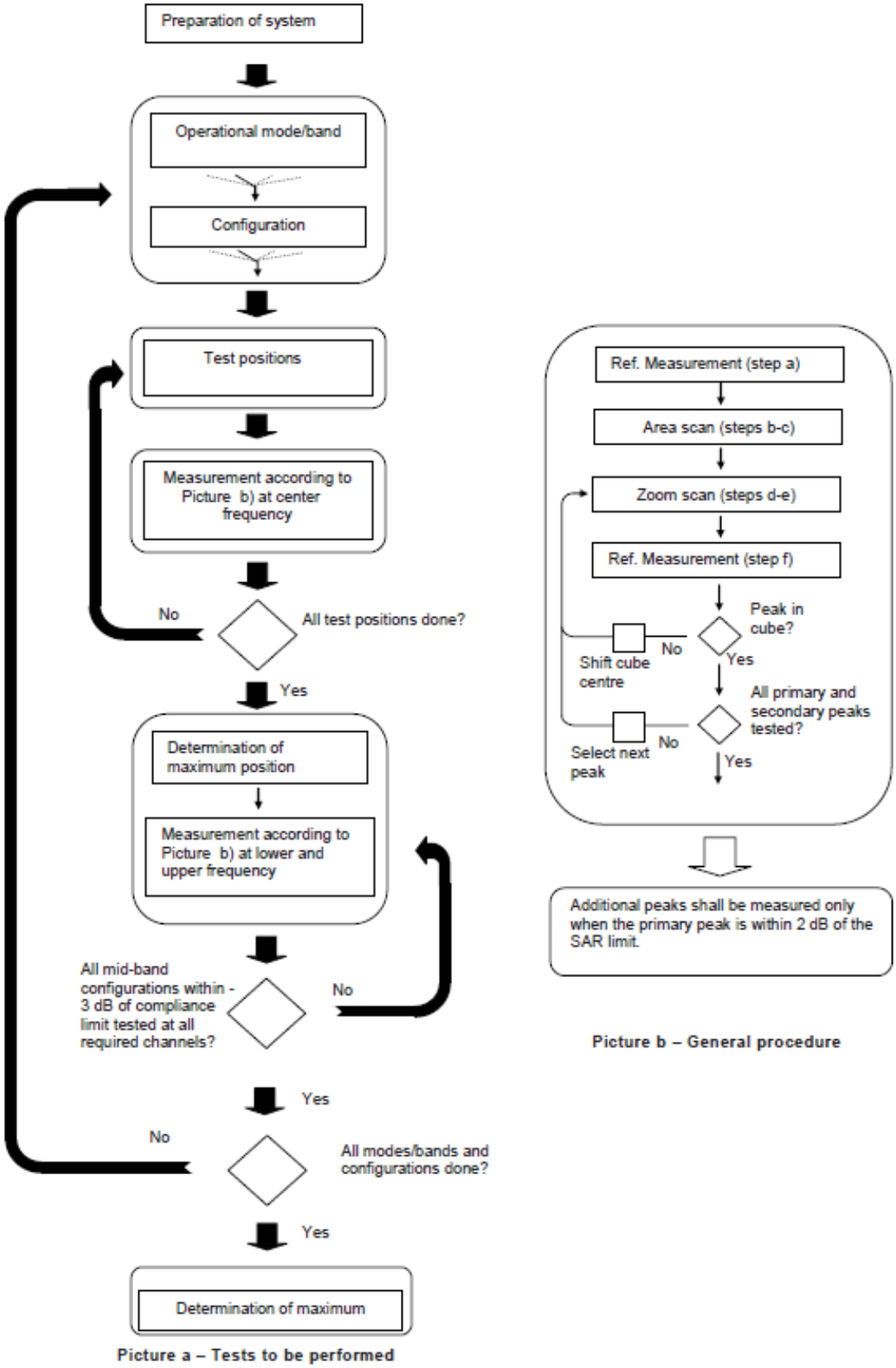
**Step 1**: The tests described in 9.2 shall be performed at the channel that is closest to the centre of the transmit frequency band ( $f_c$ ) for:

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 a – Tests to be performed

Picture b – General procedure

**Picture 9.1Block 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.

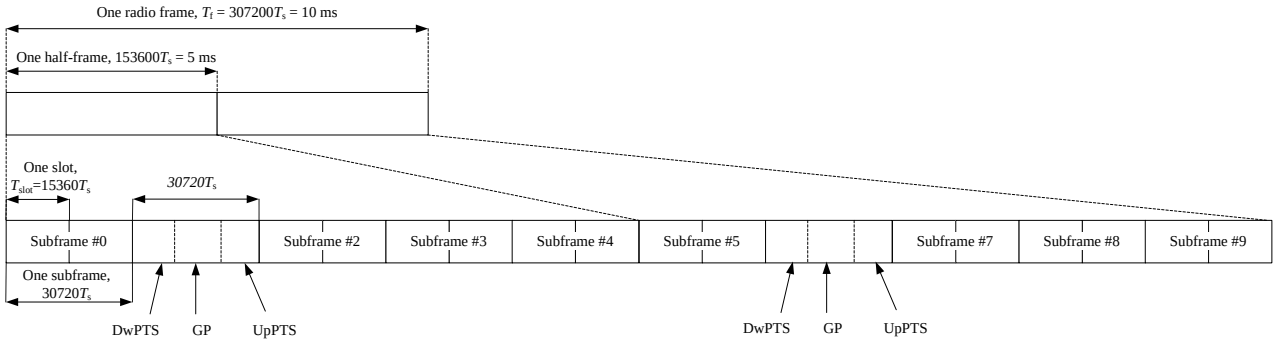



**Figure 9.2: Frame structure type 2 (for 5 ms switch-point periodicity)**

**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 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 (See Annex B). 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

**Table11.1: Summary of Receiver detection mechanism-Main antenna**

| Antenna | Receiver off+ Sensor off (DSI0) | Receiver off+ Hotspot on (DSI1) | Receiver on+ WLAN off (DSI2) | Receiver on+ WLAN on (DSI3) | Receiver off+ sensor on+ Hotspot off+ WLAN off (DSI4) | Receiver off+ sensor on+ Hotspot off+ WLAN on (DSI5) |
|---|---|---|---|---|---|---|
| Main Antenna | Power Level A1 | Power Level B1 | Power Level C1 | Power Level D1 | Power Level E1 | Power Level F1 |

| Antenna | Receiver off+ sensor on+ Hotspot off+ WLAN off (DSI4) | Receiver off+ sensor on+ Hotspot off+ WLAN on (DSI5) |
|---|---|---|
| Main Antenna<br>-Only for LTE B2/B66-ANT1 under ENDC | Power Level E2 | Power Level F2 |

**Table11.2: Summary of Receiver detection mechanism-WiFi antenna**

| Antenna | Receiver off+ Sensor off (DSI0) | Receiver off+ Hotspot on (DSI1) | Receiver on+ WWAN off (DSI2) | Receiver on+ WWAN on (DSI3) | Receiver off+ sensor on+ Hotspot off+ WWAN off (DSI4) | Receiver off+ sensor on+ Hotspot off+ WWAN on (DSI5) |
|---|---|---|---|---|---|---|
| WLAN Antenna | Power Level A1 | Power Level B1 | Power Level C1 | Power Level D1 | Power Level E1 | Power Level F1 |

## 11.1 GSM Measurement result

During the process of testing, the EUT was controlled via Agilent Digital Radio Communication tester (E5515C) to ensure the maximum power transmission and proper modulation. This result contains conducted output power for the EUT. In all cases, the measured peak output power should be greater and within 5% than EMI measurement.

**Table 11.1-1: The conducted power measurement results –GSM850**

**-Power Level A1/B1/C1/D1/E1/F1**

| GSM 850 | Measured Power (dBm) | | | Tune up | calculation | Averaged Power (dBm) | | |
|---|---|---|---|---|---|---|---|---|
| Speech (GMSK) | 251 | 190 | 128 | | | 251 | 190 | 128 |
| 1 Txslot | 32.34 | 32.31 | 32.25 | 33.50 | / | / | / | / |
| GSM 850 | Measured Power (dBm) | | | | calculation | Averaged Power (dBm) | | |
| GPRS (GMSK) | 251 | 190 | 128 | | | 251 | 190 | 128 |
| 1 Txslot | 32.27 | 32.25 | 32.19 | 33.50 | -9.03 | 23.24 | 23.22 | 23.16 |
| 2 Txslots | 31.55 | 31.51 | 31.43 | 32.50 | -6.02 | 25.53 | 25.49 | 25.41 |
| 3Txslots | 29.81 | 29.74 | 29.63 | 30.50 | -4.26 | 25.55 | 25.48 | 25.37 |
| **4 Txslots** | 28.72 | 28.63 | 28.49 | 29.50 | -3.01 | 25.71 | 25.62 | 25.48 |
| GSM 850 | Measured Power (dBm) | | | | calculation | Averaged Power (dBm) | | |
| EGPRS (GMSK) | 251 | 190 | 128 | | | 251 | 190 | 128 |
| 1 Txslot | 32.24 | 32.20 | 32.14 | 33.50 | -9.03 | 23.21 | 23.17 | 23.11 |
| 2 Txslots | 31.51 | 31.46 | 31.38 | 32.50 | -6.02 | 25.49 | 25.44 | 25.36 |
| 3Txslots | 29.77 | 29.69 | 29.58 | 30.50 | -4.26 | 25.51 | 25.43 | 25.32 |
| **4 Txslots** | 28.68 | 28.58 | 28.44 | 29.50 | -3.01 | 25.67 | 25.57 | 25.43 |
| GSM 850 | Measured Power (dBm) | | | | calculation | Averaged Power (dBm) | | |
| EGPRS (8PSK) | 251 | 190 | 128 | | | 251 | 190 | 128 |
| 1 Txslot | 26.99 | 26.87 | 26.97 | 27.50 | -9.03 | 17.96 | 17.84 | 17.94 |
| 2 Txslots | 25.91 | 26.84 | 25.76 | 26.50 | -6.02 | 19.89 | 20.82 | 19.74 |
| 3Txslots | 23.94 | 24.14 | 23.75 | 24.50 | -4.26 | 19.68 | 19.88 | 19.49 |
| 4 Txslots | 23.07 | 22.73 | 22.54 | 23.00 | -3.01 | 20.06 | 19.72 | 19.53 |

NOTES:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

**According to the conducted power as above, the body measurements are performed with 4Txslots for GSM850.**

**Table 11.1-2: The conducted power measurement results-GSM1900**

**-Power Level A1/C1/D1/E1**

| PCS1900 | Measured Power (dBm) | | | Tune up | calculation | Averaged Power (dBm) | | |
|---|---|---|---|---|---|---|---|---|
| Speech (GMSK) | 810 | 661 | 512 | | | 810 | 661 | 512 |
| 1 Txslot | 29.30 | 29.29 | 29.26 | 30.50 | / | / | / | / |
| PCS1900 | Measured Power (dBm) | | | | calculation | Averaged Power (dBm) | | |
| GPRS (GMSK) | 810 | 661 | 512 | | | 810 | 661 | 512 |
| 1 Txslot | 29.24 | 29.20 | 29.18 | 30.50 | -9.03 | 20.21 | 20.17 | 20.15 |
| 2 Txslots | 28.50 | 28.46 | 28.43 | 29.50 | -6.02 | 22.48 | 22.44 | 22.41 |
| 3 Txslots | 26.76 | 26.69 | 26.61 | 27.50 | -4.26 | 22.50 | 22.43 | 22.35 |
| **4 Txslots** | 25.62 | 25.53 | 25.44 | 26.50 | -3.01 | 22.61 | 22.52 | 22.43 |
| PCS1900 | Measured Power (dBm) | | | | calculation | Averaged Power (dBm) | | |
| EGPRS (GMSK) | 810 | 661 | 512 | | | 810 | 661 | 512 |
| 1 Txslot | 29.38 | 29.36 | 29.29 | 30.50 | -9.03 | 20.35 | 20.33 | 20.26 |
| 2 Txslots | 28.64 | 28.61 | 28.46 | 29.50 | -6.02 | 22.62 | 22.59 | 22.44 |
| 3Txslots | 26.90 | 26.81 | 26.69 | 27.50 | -4.26 | 22.64 | 22.55 | 22.43 |
| **4 Txslots** | 25.74 | 25.64 | 25.46 | 26.50 | -3.01 | 22.73 | 22.63 | 22.45 |
| PCS1900 | Measured Power (dBm) | | | | calculation | Averaged Power (dBm) | | |
| EGPRS (8PSK) | 810 | 661 | 512 | | | 810 | 661 | 512 |
| 1 Txslot | 25.92 | 25.79 | 25.57 | 26.50 | -9.03 | 16.89 | 16.76 | 16.54 |
| 2 Txslots | 24.75 | 24.45 | 24.13 | 25.50 | -6.02 | 18.73 | 18.43 | 18.11 |
| 3Txslots | 22.47 | 22.24 | 21.88 | 23.50 | -4.26 | 18.21 | 17.98 | 17.62 |
| 4 Txslots | 21.19 | 20.94 | 20.60 | 22.50 | -3.01 | 18.18 | 17.93 | 17.59 |

NOTES:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

**According to the conducted power as above, the body measurements are performed with 4Txslots for GSM1900.**

**Table 11.1-3: The conducted power measurement results-GSM1900-Power Level B1/F1**

| PCS1900 | Measured Power (dBm) | | | Tune up | calculation | Averaged Power (dBm) | | |
|---|---|---|---|---|---|---|---|---|
| Speech (GMSK) | 810 | 661 | 512 | | | 810 | 661 | 512 |
| 1 Txslot | 27.18 | 27.26 | 27.21 | 28.50 | / | / | / | / |
| PCS1900 | Measured Power (dBm) | | | | calculation | Averaged Power (dBm) | | |
| GPRS (GMSK) | 810 | 661 | 512 | | | 810 | 661 | 512 |
| 1 Txslot | 27.15 | 27.23 | 27.18 | 28.50 | -9.03 | 18.12 | 18.20 | 18.15 |
| 2 Txslots | 26.46 | 26.51 | 26.45 | 27.50 | -6.02 | 20.44 | 20.49 | 20.43 |
| 3Txslots | 24.93 | 24.89 | 24.71 | 25.50 | -4.26 | 20.67 | 20.63 | 20.45 |
| **4 Txslots** | 23.87 | 23.79 | 23.57 | 24.50 | -3.01 | 20.86 | 20.78 | 20.56 |
| PCS1900 | Measured Power (dBm) | | | | calculation | Averaged Power (dBm) | | |
| EGPRS (GMSK) | 810 | 661 | 512 | | | 810 | 661 | 512 |
| 1 Txslot | 27.14 | 27.22 | 27.19 | 28.50 | -9.03 | 18.11 | 18.19 | 18.16 |
| 2 Txslots | 26.45 | 26.50 | 26.46 | 27.50 | -6.02 | 20.43 | 20.48 | 20.44 |
| 3Txslots | 24.92 | 24.88 | 24.71 | 25.50 | -4.26 | 20.66 | 20.62 | 20.45 |
| **4 Txslots** | 23.86 | 23.79 | 23.57 | 24.50 | -3.01 | 20.85 | 20.78 | 20.56 |
| PCS1900 | Measured Power (dBm) | | | | calculation | Averaged Power (dBm) | | |
| EGPRS (8PSK) | 810 | 661 | 512 | | | 810 | 661 | 512 |
| 1 Txslot | 23.94 | 23.52 | 23.13 | 24.50 | -9.03 | 14.91 | 14.49 | 14.10 |
| 2 Txslots | 22.69 | 22.29 | 22.28 | 23.50 | -6.02 | 16.67 | 16.27 | 16.26 |
| 3Txslots | 20.38 | 20.57 | 19.71 | 21.50 | -4.26 | 16.12 | 16.31 | 15.45 |
| 4 Txslots | 19.49 | 18.80 | 18.31 | 20.50 | -3.01 | 16.48 | 15.79 | 15.30 |

NOTES:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

**According to the conducted power as above, the body measurements are performed with 4Txslots for GSM1900.**

**Table 11.1-4: The conducted power measurement results-GSM1900-Power Level C1**

| PCS1900 | Measured Power (dBm) | | | Tune up | calculation | Averaged Power (dBm) | | |
|---|---|---|---|---|---|---|---|---|
| Speech (GMSK) | 810 | 661 | 512 | | | 810 | 661 | 512 |
| 1 Txslot | 26.11 | 26.14 | 25.88 | 27.00 | / | / | / | / |
| PCS1900 | Measured Power (dBm) | | | | calculation | Averaged Power (dBm) | | |
| GPRS (GMSK) | 810 | 661 | 512 | | | 810 | 661 | 512 |
| 1 Txslot | 25.60 | 26.15 | 25.74 | 27.00 | -9.03 | 22.59 | 23.14 | 22.73 |
| **2 Txslots** | 24.18 | 25.14 | 25.67 | 26.00 | -6.02 | 24.18 | 25.14 | 25.67 |
| 3Txslots | 23.21 | 24.00 | 24.48 | 24.80 | -4.26 | 23.21 | 24.00 | 24.48 |
| 4 Txslots | 21.79 | 22.61 | 23.10 | 23.50 | -3.01 | 21.79 | 22.61 | 23.10 |
| PCS1900 | Measured Power (dBm) | | | | calculation | Averaged Power (dBm) | | |
| EGPRS (GMSK) | 810 | 661 | 512 | | | 810 | 661 | 512 |
| 1 Txslot | 25.99 | 25.91 | 25.63 | 27.00 | -9.03 | 22.98 | 22.90 | 22.62 |
| **2 Txslots** | 24.53 | 25.35 | 25.81 | 26.00 | -6.02 | 24.53 | 25.35 | 25.81 |
| 3Txslots | 22.98 | 23.83 | 24.37 | 24.80 | -4.26 | 22.98 | 23.83 | 24.37 |
| 4 Txslots | 21.60 | 22.45 | 22.99 | 23.50 | -3.01 | 21.60 | 22.45 | 22.99 |
| PCS1900 | Measured Power (dBm) | | | | calculation | Averaged Power (dBm) | | |
| EGPRS (8PSK) | 810 | 661 | 512 | | | 810 | 661 | 512 |
| 1 Txslot | 25.35 | 25.50 | 25.55 | 27.00 | -9.03 | 16.32 | 16.47 | 16.52 |
| 2 Txslots | 23.64 | 23.74 | 23.76 | 24.00 | -6.02 | 17.62 | 17.72 | 17.74 |
| 3Txslots | 21.32 | 21.72 | 21.25 | 22.00 | -4.26 | 17.06 | 17.46 | 16.99 |
| 4 Txslots | 19.32 | 19.43 | 19.15 | 20.50 | -3.01 | 16.31 | 16.42 | 16.14 |

NOTES:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

**According to the conducted power as above, the body measurements are performed with 2Txslots for GSM1900.**

## 11.2 WCDMA Measurement result

**Table 11.2-1: The conducted Power for WCDMA B2/B4 -Power Level A1/C1/D1**

| WCDMA1900 | FDDII result (dBm) | | | Tune up |
|---|---|---|---|---|
| | 9538/9938 | 9400/9800 | 9262/9662 | |
| | (1907.6MHz) | (1880MHz) | (1852.4MHz) | |
| | 22.23 | 22.38 | 22.42 | 24.00 |
| HSUPA | 19.89 | 20.00 | 20.09 | 21.00 |
| | 19.38 | 19.52 | 19.59 | 21.00 |
| | 19.39 | 19.53 | 19.62 | 21.00 |
| | 18.94 | 19.06 | 18.93 | 20.50 |
| | 20.41 | 20.53 | 20.59 | 22.00 |
| DC-HSDPA | 21.38 | 21.41 | 21.45 | 23.00 |
| | 21.37 | 21.40 | 21.47 | 23.00 |
| | 21.09 | 21.12 | 21.20 | 22.50 |
| | 21.07 | 21.11 | 21.17 | 22.50 |

| WCDMA1700 | FDDIV result (dBm) | | | Tune up |
|---|---|---|---|---|
| | 1513/1738 | 1412/1637 | 1312/1537 | |
| | (1752.6MHz) | (1732.4MHz) | (1712.4MHz) | |
| | 22.10 | 22.04 | 22.08 | 24.00 |
| HSUPA | 19.73 | 19.65 | 19.73 | 21.00 |
| | 19.23 | 19.16 | 19.21 | 21.00 |
| | 19.25 | 19.19 | 20.27 | 21.00 |
| | 18.77 | 18.72 | 18.75 | 20.50 |
| | 20.22 | 20.16 | 20.21 | 22.00 |
| DC-HSDPA | 21.17 | 21.23 | 21.29 | 22.00 |
| | 21.11 | 21.18 | 21.29 | 22.00 |
| | 20.72 | 20.75 | 20.84 | 21.50 |
| | 20.68 | 20.75 | 20.79 | 21.50 |

**Table 11.2-2: The conducted Power for WCDMA B2/B4 -Power Level B1/F1**

| WCDMA1900 | FDDII result (dBm) | | | Tune up |
|---|---|---|---|---|
| | 9538/9938 | 9400/9800 | 9262/9662 | |
| | (1907.6MHz) | (1880MHz) | (1852.4MHz) | |
| | 17.36 | 17.60 | 17.56 | 19.00 |
| HSUPA | 14.41 | 14.56 | 14.67 | 15.50 |
| | 14.40 | 14.53 | 14.55 | 15.50 |
| | 14.41 | 14.53 | 14.58 | 15.50 |
| | 13.89 | 14.04 | 13.88 | 15.50 |
| | 15.34 | 15.47 | 15.48 | 15.50 |
| DC-HSDPA | 16.40 | 16.49 | 16.51 | 17.00 |
| | 16.31 | 16.35 | 16.47 | 17.00 |
| | 15.95 | 16.05 | 16.08 | 17.00 |
| | 15.91 | 15.97 | 16.02 | 17.00 |

| WCDMA1700 | FDDIV result (dBm) | | | Tune up |
|---|---|---|---|---|
| | 1513/1738 | 1412/1637 | 1312/1537 | |
| | (1752.6MHz) | (1732.4MHz) | (1712.4MHz) | |
| | 17.26 | 17.20 | 17.25 | 19.00 |
| HSUPA | 14.91 | 14.89 | 14.92 | 15.50 |
| | 14.40 | 14.35 | 14.37 | 15.50 |
| | 14.37 | 14.33 | 14.35 | 15.50 |
| | 13.87 | 13.82 | 13.85 | 15.50 |
| | 15.31 | 15.30 | 15.33 | 15.50 |
| DC-HSDPA | 16.22 | 16.23 | 16.31 | 17.00 |
| | 16.15 | 16.05 | 16.16 | 17.00 |
| | 15.84 | 15.81 | 15.78 | 17.00 |
| | 15.75 | 15.77 | 15.81 | 17.00 |

**Table 11.2-3: The conducted Power for WCDMA B2/B4 -Power Level E1**

| WCDMA1900 | FDDII result (dBm) | | | Tune up |
|---|---|---|---|---|
| | 9538/9938 | 9400/9800 | 9262/9662 | |
| | (1907.6MHz) | (1880MHz) | (1852.4MHz) | |
| | 19.46 | 19.65 | 19.70 | 21.00 |
| HSUPA | 16.76 | 16.97 | 16.49 | 17.80 |
| | 16.26 | 16.47 | 16.28 | 17.80 |
| | 16.27 | 16.49 | 16.52 | 17.80 |
| | 15.89 | 16.05 | 16.09 | 17.80 |
| | 17.36 | 17.55 | 17.55 | 17.80 |
| DC-HSDPA | 18.50 | 18.60 | 18.61 | 19.00 |
| | 18.47 | 18.54 | 18.62 | 19.00 |
| | 18.02 | 18.14 | 18.17 | 19.00 |
| | 18.01 | 18.10 | 18.10 | 19.00 |

| WCDMA1700 | FDDIV result (dBm) | | | Tune up |
|---|---|---|---|---|
| | 1513/1738 | 1412/1637 | 1312/1537 | |
| | (1752.6MHz) | (1732.4MHz) | (1712.4MHz) | |
| | 19.36 | 19.32 | 19.40 | 21.00 |
| HSUPA | 16.68 | 16.64 | 16.68 | 17.50 |
| | 16.19 | 16.12 | 16.17 | 17.50 |
| | 16.24 | 16.19 | 16.17 | 17.50 |
| | 16.21 | 15.71 | 15.72 | 17.50 |
| | 17.36 | 17.32 | 17.34 | 17.50 |
| DC-HSDPA | 18.34 | 18.34 | 18.41 | 19.00 |
| | 18.38 | 18.27 | 18.20 | 19.00 |
| | 17.86 | 17.88 | 17.94 | 19.00 |
| | 17.81 | 17.82 | 17.82 | 19.00 |

**Table 11.2-4: The conducted Power for WCDMA B5 -Power Level A1/B1/C1/D1/E1/F1**

| WCDMA850 | FDDV result (dBm) | | | Tune up |
|---|---|---|---|---|
| | 4233/4458 | 4183/4408 | 4132/4357 | |
| | (846.6MHz) | (836.6MHz) | (826.4MHz) | |
| | 22.20 | 22.24 | 22.27 | 24.00 |
| HSUPA | 19.59 | 19.63 | 19.55 | 21.00 |
| | 19.10 | 19.14 | 19.15 | 21.00 |
| | 19.13 | 19.10 | 19.18 | 21.00 |
| | 18.61 | 18.68 | 18.71 | 20.50 |
| | 20.09 | 20.14 | 20.15 | 22.00 |
| HSPA+ | 21.16 | 21.17 | 21.19 | 22.50 |
| DC-HSDPA | 21.13 | 21.08 | 21.18 | 22.50 |
| | 20.69 | 20.69 | 20.73 | 21.50 |
| | 20.67 | 20.66 | 20.69 | 21.50 |
| | 19.59 | 19.63 | 19.55 | 21.00 |

### 11.3 LTE Measurement result

**Maximum Target Power for Production Unit**

| Band | Tune up (dBm) | | | | | |
|---|---|---|---|---|---|---|
| | Receiver off+ Sensor off (DSI0) | Receiver off+ Hotspot on (DSI1) | Receiver on+ WLAN off (DSI2) | Receiver on+ WLAN on (DSI3) | Receiver off+ sensor on+ Hotspot off+ WLAN off (DSI4) | Receiver off+ sensor on+ Hotspot off+ WLAN on (DSI5) |
| | Power Level A1 | Power Level B1 | Power Level C1 | Power Level D1 | Power Level E1 | Power Level F1 |
| Band 2-ANT1 | 24 | 20.5 | 24 | 24 | 22.5 | 20.5 |
| Band 2-ANT4 | 24 | 17 | 17 | 17 | 20 | 17 |
| Band 7 | 24 | 17 | 24 | 24 | 19 | 17 |
| Band 12 | 24 | 24 | 24 | 24 | 24 | 24 |
| Band 13 | 24 | 24 | 24 | 24 | 24 | 24 |
| Band 25 | 24 | 21.5 | 24 | 24 | 23.5 | 21.5 |
| Band 26 | 24 | 24 | 24 | 24 | 24 | 24 |
| Band 38 | 24 | 21 | 24 | 24 | 23 | 21 |
| Band 41-PC3 | 24 | 19 | 24 | 24 | 21 | 19 |
| Band 41-PC2 | 27 | 22.5 | 24 | 24 | 24.5 | 22.5 |
| Band 66-ANT1 | 24 | 20 | 24 | 24 | 22 | 20 |
| Band 66-ANT4 | 24 | 17 | 19.5 | 17 | 20 | 17 |
| Band 71 | 24 | 24 | 24 | 24 | 24 | 24 |

| Band | Tune up (dBm) | |
|---|---|---|
| | Receiver off+ sensor on+ WLAN off (DSI4) | Receiver off+ sensor on+ WLAN on (DSI5) |
| | Power Level E2 | Power Level F2 |
| LTE B2-ANT1 under ENDC | 20.5 | 18 |
| LTE B66-ANT1 under ENDC | 20 | 18 |

| LTE Band2 ANT1-Power Level A1/C1/D1 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 1.4MHz | 1RB-High (5) | 1909.3 (19193) | 23.52 | 22.89 | 21.71 |
| | | 1880 (18900) | 23.54 | 22.74 | 21.84 |
| | | 1850.7 (18607) | 23.62 | 22.93 | 21.88 |
| | 1RB-Middle (3) | 1909.3 (19193) | 23.58 | 22.85 | 21.82 |
| | | 1880 (18900) | 23.55 | 22.79 | 21.85 |
| | | 1850.7 (18607) | 23.63 | 22.85 | 21.82 |
| | 1RB-Low (0) | 1909.3 (19193) | 23.53 | 22.76 | 21.81 |
| | | 1880 (18900) | 23.52 | 22.56 | 21.93 |
| | | 1850.7 (18607) | 23.62 | 22.74 | 21.88 |
| | 3RB-High (3) | 1909.3 (19193) | 23.52 | 22.65 | 21.73 |
| | | 1880 (18900) | 23.52 | 22.47 | 21.72 |
| | | 1850.7 (18607) | 23.63 | 22.83 | 21.81 |
| | 3RB-Middle (1) | 1909.3 (19193) | 23.56 | 22.62 | 21.70 |
| | | 1880 (18900) | 23.55 | 22.60 | 21.81 |
| | | 1850.7 (18607) | 23.64 | 22.74 | 21.83 |
| | 3RB-Low (0) | 1909.3 (19193) | 23.58 | 22.68 | 21.71 |
| | | 1880 (18900) | 23.57 | 22.58 | 21.84 |
| | | 1850.7 (18607) | 23.65 | 22.81 | 21.85 |
| | 6RB (0) | 1909.3 (19193) | 22.54 | 21.69 | 20.58 |
| | | 1880 (18900) | 22.55 | 21.78 | 20.61 |
| | | 1850.7 (18607) | 22.81 | 21.83 | 20.75 |
| 3MHz | 1RB-High (14) | 1908.5 (19185) | 23.51 | 22.79 | 21.74 |
| | | 1880 (18900) | 23.58 | 22.69 | 21.83 |
| | | 1851.5 (18615) | 23.66 | 22.99 | 21.85 |
| | 1RB-Middle (7) | 1908.5 (19185) | 23.57 | 22.74 | 21.86 |
| | | 1880 (18900) | 23.64 | 22.76 | 21.80 |
| | | 1851.5 (18615) | 23.61 | 22.81 | 21.90 |
| | 1RB-Low (0) | 1908.5 (19185) | 23.49 | 22.91 | 21.86 |
| | | 1880 (18900) | 23.59 | 22.74 | 21.85 |
| | | 1851.5 (18615) | 23.63 | 22.76 | 21.90 |
| | 8RB-High (7) | 1908.5 (19185) | 22.61 | 21.72 | 20.59 |
| | | 1880 (18900) | 22.52 | 21.73 | 20.66 |
| | | 1851.5 (18615) | 22.77 | 21.84 | 20.73 |
| | 8RB-Middle (4) | 1908.5 (19185) | 22.62 | 21.66 | 20.65 |
| | | 1880 (18900) | 22.48 | 21.75 | 20.66 |
| | | 1851.5 (18615) | 22.78 | 21.82 | 20.77 |
| | 8RB-Low (0) | 1908.5 (19185) | 22.67 | 21.69 | 20.63 |
| | | 1880 (18900) | 22.49 | 21.76 | 20.72 |
| | | 1851.5 (18615) | 22.78 | 21.84 | 20.76 |
| | 15RB (0) | 1908.5 (19185) | 22.65 | 21.64 | 20.60 |
| | | 1880 (18900) | 22.52 | 21.73 | 20.63 |
| | | 1851.5 (18615) | 22.76 | 21.79 | 20.77 |

| | | | | | |
|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 1907.5 (19175) | 23.54 | 22.79 | 21.67 |
| | | 1880 (18900) | 23.62 | 22.82 | 21.87 |
| | | 1852.5 (18625) | 23.67 | 22.94 | 21.85 |
| | 1RB-Middle (12) | 1907.5 (19175) | 23.64 | 22.85 | 21.87 |
| | | 1880 (18900) | 23.60 | 22.80 | 21.87 |
| | | 1852.5 (18625) | 23.79 | 22.62 | 21.92 |
| | 1RB-Low (0) | 1907.5 (19175) | 23.58 | 22.86 | 21.86 |
| | | 1880 (18900) | 23.64 | 22.86 | 21.84 |
| | | 1852.5 (18625) | 23.69 | 22.95 | 21.87 |
| | 12RB-High (13) | 1907.5 (19175) | 22.53 | 21.57 | 20.61 |
| | | 1880 (18900) | 22.55 | 21.73 | 20.70 |
| | | 1852.5 (18625) | 22.76 | 21.76 | 20.71 |
| | 12RB-Middle (6) | 1907.5 (19175) | 22.52 | 21.61 | 20.61 |
| | | 1880 (18900) | 22.56 | 21.71 | 20.73 |
| | | 1852.5 (18625) | 22.81 | 21.78 | 20.78 |
| | 12RB-Low (0) | 1907.5 (19175) | 22.55 | 21.70 | 20.61 |
| | | 1880 (18900) | 22.57 | 21.75 | 20.69 |
| | | 1852.5 (18625) | 22.83 | 21.80 | 20.80 |
| | 25RB (0) | 1907.5 (19175) | 22.56 | 21.66 | 20.60 |
| | | 1880 (18900) | 22.56 | 21.76 | 20.70 |
| | | 1852.5 (18625) | 22.80 | 21.77 | 20.76 |
| 10MHz | 1RB-High (49) | 1905 (19150) | 23.55 | 22.91 | 21.75 |
| | | 1880 (18900) | 23.66 | 22.89 | 21.87 |
| | | 1855 (18650) | 23.71 | 22.98 | 21.80 |
| | 1RB-Middle (24) | 1905 (19150) | 23.67 | 22.98 | 21.85 |
| | | 1880 (18900) | 23.74 | 22.96 | 21.83 |
| | | 1855 (18650) | 23.79 | 22.99 | 21.99 |
| | 1RB-Low (0) | 1905 (19150) | 23.65 | 22.94 | 21.91 |
| | | 1880 (18900) | 23.73 | 22.96 | 21.91 |
| | | 1855 (18650) | 23.76 | 22.84 | 21.98 |
| | 25RB-High (25) | 1905 (19150) | 22.77 | 21.73 | 20.71 |
| | | 1880 (18900) | 22.59 | 21.74 | 20.71 |
| | | 1855 (18650) | 22.82 | 21.77 | 20.77 |
| | 25RB-Middle (12) | 1905 (19150) | 22.72 | 21.75 | 20.71 |
| | | 1880 (18900) | 22.59 | 21.74 | 20.71 |
| | | 1855 (18650) | 22.85 | 21.83 | 20.80 |
| | 25RB-Low (0) | 1905 (19150) | 22.79 | 21.78 | 20.69 |
| | | 1880 (18900) | 22.58 | 21.76 | 20.74 |
| | | 1855 (18650) | 22.82 | 21.82 | 20.81 |
| | 50RB (0) | 1905 (19150) | 22.80 | 21.75 | 20.68 |
| | | 1880 (18900) | 22.58 | 21.70 | 20.71 |
| | | 1855 (18650) | 22.84 | 21.83 | 20.77 |

| | | | | | |
|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 1902.5 (19125) | 23.57 | 22.94 | 21.84 |
| | | 1880 (18900) | 23.65 | 22.79 | 21.88 |
| | | 1857.5 (18675) | 23.71 | 22.68 | 21.87 |
| | 1RB-Middle (37) | 1902.5 (19125) | 23.69 | 22.74 | 21.83 |
| | | 1880 (18900) | 23.73 | 22.84 | 22.00 |
| | | 1857.5 (18675) | 23.73 | 22.82 | 21.94 |
| | 1RB-Low (0) | 1902.5 (19125) | 23.62 | 22.65 | 21.85 |
| | | 1880 (18900) | 23.75 | 22.88 | 21.89 |
| | | 1857.5 (18675) | 23.76 | 22.75 | 21.96 |
| | 36RB-High (38) | 1902.5 (19125) | 22.78 | 21.80 | 20.70 |
| | | 1880 (18900) | 22.65 | 21.76 | 20.75 |
| | | 1857.5 (18675) | 22.80 | 21.80 | 20.76 |
| | 36RB-Middle (19) | 1902.5 (19125) | 22.79 | 21.75 | 20.74 |
| | | 1880 (18900) | 22.70 | 21.84 | 20.80 |
| | | 1857.5 (18675) | 22.83 | 21.83 | 20.78 |
| | 36RB-Low (0) | 1902.5 (19125) | 22.80 | 21.83 | 20.75 |
| | | 1880 (18900) | 22.62 | 21.87 | 20.74 |
| | | 1857.5 (18675) | 22.87 | 21.83 | 20.86 |
| | 75RB (0) | 1902.5 (19125) | 22.88 | 21.82 | 20.72 |
| | | 1880 (18900) | 22.67 | 21.80 | 20.75 |
| | | 1857.5 (18675) | 22.89 | 21.80 | 20.79 |
| 20MHz | 1RB-High (99) | 1900 (19100) | 22.63 | 21.95 | 20.90 |
| | | 1880 (18900) | 22.53 | 21.91 | 20.70 |
| | | 1860 (18700) | 22.54 | 21.87 | 20.78 |
| | 1RB-Middle (50) | 1900 (19100) | 22.67 | 21.98 | 20.90 |
| | | 1880 (18900) | 22.59 | 21.96 | 20.84 |
| | | 1860 (18700) | 22.61 | 21.96 | 20.95 |
| | 1RB-Low (0) | 1900 (19100) | 22.57 | 21.91 | 20.83 |
| | | 1880 (18900) | 22.58 | 22.00 | 20.84 |
| | | 1860 (18700) | 22.59 | 21.98 | 20.82 |
| | 50RB-High (50) | 1900 (19100) | 21.87 | 20.82 | 19.81 |
| | | 1880 (18900) | 21.75 | 20.74 | 19.70 |
| | | 1860 (18700) | 21.69 | 20.67 | 19.65 |
| | 50RB-Middle (25) | 1900 (19100) | 21.83 | 20.83 | 19.77 |
| | | 1880 (18900) | 21.75 | 20.70 | 19.69 |
| | | 1860 (18700) | 21.76 | 20.81 | 19.75 |
| | 50RB-Low (0) | 1900 (19100) | 21.88 | 20.92 | 19.87 |
| | | 1880 (18900) | 21.71 | 20.68 | 19.68 |
| | | 1860 (18700) | 21.73 | 20.76 | 19.74 |
| | 100RB (0) | 1900 (19100) | 21.89 | 20.85 | 19.80 |
| | | 1880 (18900) | 21.75 | 20.66 | 19.62 |
| | | 1860 (18700) | 21.77 | 20.71 | 19.71 |

| LTE Band2 ANT1-Power Level B1/F1/E2 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 1.4MHz | 1RB-High (5) | 1909.3 (19193) | 19.38 | 18.62 | 17.51 |
| | | 1880 (18900) | 19.53 | 18.77 | 17.72 |
| | | 1850.7 (18607) | 19.72 | 19.07 | 17.86 |
| | 1RB-Middle (3) | 1909.3 (19193) | 19.43 | 18.67 | 17.59 |
| | | 1880 (18900) | 19.56 | 18.81 | 17.71 |
| | | 1850.7 (18607) | 19.81 | 19.09 | 17.89 |
| | 1RB-Low (0) | 1909.3 (19193) | 19.38 | 18.80 | 17.51 |
| | | 1880 (18900) | 19.57 | 18.78 | 17.71 |
| | | 1850.7 (18607) | 19.73 | 19.00 | 17.87 |
| | 3RB-High (3) | 1909.3 (19193) | 19.47 | 18.46 | 17.52 |
| | | 1880 (18900) | 19.58 | 18.58 | 17.66 |
| | | 1850.7 (18607) | 19.76 | 18.80 | 17.87 |
| | 3RB-Middle (1) | 1909.3 (19193) | 19.44 | 18.47 | 17.52 |
| | | 1880 (18900) | 19.58 | 18.58 | 17.61 |
| | | 1850.7 (18607) | 19.80 | 18.76 | 17.83 |
| | 3RB-Low (0) | 1909.3 (19193) | 19.46 | 18.41 | 17.55 |
| | | 1880 (18900) | 19.59 | 18.55 | 17.61 |
| | | 1850.7 (18607) | 19.77 | 18.69 | 17.79 |
| | 6RB (0) | 1909.3 (19193) | 18.43 | 17.48 | 16.41 |
| | | 1880 (18900) | 18.57 | 17.63 | 16.50 |
| | | 1850.7 (18607) | 18.76 | 17.84 | 16.71 |
| 3MHz | 1RB-High (14) | 1908.5 (19185) | 19.35 | 18.73 | 17.53 |
| | | 1880 (18900) | 19.51 | 18.95 | 17.73 |
| | | 1851.5 (18615) | 19.69 | 18.85 | 17.79 |
| | 1RB-Middle (7) | 1908.5 (19185) | 19.39 | 18.78 | 17.59 |
| | | 1880 (18900) | 19.56 | 18.94 | 17.74 |
| | | 1851.5 (18615) | 19.77 | 19.00 | 17.94 |
| | 1RB-Low (0) | 1908.5 (19185) | 19.45 | 18.77 | 17.65 |
| | | 1880 (18900) | 19.52 | 18.77 | 17.71 |
| | | 1851.5 (18615) | 19.69 | 19.09 | 17.95 |
| | 8RB-High (7) | 1908.5 (19185) | 18.41 | 17.53 | 16.45 |
| | | 1880 (18900) | 18.51 | 17.60 | 16.59 |
| | | 1851.5 (18615) | 18.72 | 17.77 | 16.77 |
| | 8RB-Middle (4) | 1908.5 (19185) | 18.41 | 17.51 | 16.48 |
| | | 1880 (18900) | 18.51 | 17.61 | 16.60 |
| | | 1851.5 (18615) | 18.69 | 17.80 | 16.78 |
| | 8RB-Low (0) | 1908.5 (19185) | 18.42 | 17.48 | 16.49 |
| | | 1880 (18900) | 18.52 | 17.59 | 16.58 |
| | | 1851.5 (18615) | 18.72 | 17.78 | 16.77 |
| | 15RB (0) | 1908.5 (19185) | 18.42 | 17.43 | 16.47 |
| | | 1880 (18900) | 18.54 | 17.55 | 16.58 |
| | | 1851.5 (18615) | 18.70 | 17.74 | 16.74 |

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|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 1907.5 (19175) | 19.36 | 18.66 | 17.64 |
| | | 1880 (18900) | 19.49 | 18.84 | 17.72 |
| | | 1852.5 (18625) | 19.72 | 19.10 | 17.87 |
| | 1RB-Middle (12) | 1907.5 (19175) | 19.43 | 18.83 | 17.63 |
| | | 1880 (18900) | 19.62 | 18.90 | 17.74 |
| | | 1852.5 (18625) | 19.75 | 19.01 | 17.83 |
| | 1RB-Low (0) | 1907.5 (19175) | 19.45 | 18.70 | 17.66 |
| | | 1880 (18900) | 19.56 | 18.98 | 17.73 |
| | | 1852.5 (18625) | 19.78 | 19.01 | 17.97 |
| | 12RB-High (13) | 1907.5 (19175) | 18.38 | 17.36 | 16.45 |
| | | 1880 (18900) | 18.51 | 17.46 | 16.52 |
| | | 1852.5 (18625) | 18.69 | 17.64 | 16.72 |
| | 12RB-Middle (6) | 1907.5 (19175) | 18.45 | 17.44 | 16.45 |
| | | 1880 (18900) | 18.57 | 17.57 | 16.58 |
| | | 1852.5 (18625) | 18.72 | 17.73 | 16.72 |
| | 12RB-Low (0) | 1907.5 (19175) | 18.49 | 17.44 | 16.52 |
| | | 1880 (18900) | 18.62 | 17.56 | 16.58 |
| | | 1852.5 (18625) | 18.76 | 17.70 | 16.77 |
| | 25RB (0) | 1907.5 (19175) | 18.45 | 17.45 | 16.46 |
| | | 1880 (18900) | 18.49 | 17.53 | 16.58 |
| | | 1852.5 (18625) | 18.74 | 17.73 | 16.73 |
| 10MHz | 1RB-High (49) | 1905 (19150) | 19.42 | 18.71 | 17.60 |
| | | 1880 (18900) | 19.50 | 18.78 | 17.69 |
| | | 1855 (18650) | 19.61 | 18.90 | 17.77 |
| | 1RB-Middle (24) | 1905 (19150) | 19.46 | 18.88 | 17.68 |
| | | 1880 (18900) | 19.65 | 18.91 | 17.79 |
| | | 1855 (18650) | 19.77 | 19.05 | 17.84 |
| | 1RB-Low (0) | 1905 (19150) | 19.51 | 18.78 | 17.75 |
| | | 1880 (18900) | 19.63 | 18.94 | 17.74 |
| | | 1855 (18650) | 19.80 | 19.19 | 17.90 |
| | 25RB-High (25) | 1905 (19150) | 18.54 | 17.51 | 16.46 |
| | | 1880 (18900) | 18.53 | 17.54 | 16.52 |
| | | 1855 (18650) | 18.71 | 17.71 | 16.68 |
| | 25RB-Middle (12) | 1905 (19150) | 18.51 | 17.49 | 16.48 |
| | | 1880 (18900) | 18.57 | 17.58 | 16.61 |
| | | 1855 (18650) | 18.67 | 17.76 | 16.72 |
| | 25RB-Low (0) | 1905 (19150) | 18.52 | 17.55 | 16.48 |
| | | 1880 (18900) | 18.58 | 17.58 | 16.62 |
| | | 1855 (18650) | 18.77 | 17.77 | 16.74 |
| | 50RB (0) | 1905 (19150) | 18.56 | 17.50 | 16.50 |
| | | 1880 (18900) | 18.60 | 17.55 | 16.60 |
| | | 1855 (18650) | 18.76 | 17.74 | 16.72 |

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|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 1902.5 (19125) | 19.39 | 18.67 | 17.53 |
| | | 1880 (18900) | 19.36 | 18.64 | 17.54 |
| | | 1857.5 (18675) | 19.61 | 18.85 | 17.79 |
| | 1RB-Middle (37) | 1902.5 (19125) | 19.47 | 18.78 | 17.66 |
| | | 1880 (18900) | 19.55 | 18.84 | 17.81 |
| | | 1857.5 (18675) | 19.66 | 18.93 | 17.79 |
| | 1RB-Low (0) | 1902.5 (19125) | 19.45 | 18.67 | 17.62 |
| | | 1880 (18900) | 19.53 | 18.90 | 17.76 |
| | | 1857.5 (18675) | 19.72 | 19.03 | 17.94 |
| | 36RB-High (38) | 1902.5 (19125) | 18.40 | 17.46 | 16.49 |
| | | 1880 (18900) | 18.52 | 17.53 | 16.49 |
| | | 1857.5 (18675) | 18.59 | 17.55 | 16.68 |
| | 36RB-Middle (19) | 1902.5 (19125) | 18.49 | 17.46 | 16.52 |
| | | 1880 (18900) | 18.54 | 17.54 | 16.57 |
| | | 1857.5 (18675) | 18.68 | 17.65 | 16.72 |
| | 36RB-Low (0) | 1902.5 (19125) | 18.47 | 17.47 | 16.57 |
| | | 1880 (18900) | 18.51 | 17.50 | 16.60 |
| | | 1857.5 (18675) | 18.72 | 17.70 | 16.71 |
| | 75RB (0) | 1902.5 (19125) | 18.52 | 17.48 | 16.49 |
| | | 1880 (18900) | 18.55 | 17.53 | 16.57 |
| | | 1857.5 (18675) | 18.71 | 17.70 | 16.64 |
| 20MHz | 1RB-High (99) | 1900 (19100) | 19.39 | 18.73 | 17.61 |
| | | 1880 (18900) | 19.43 | 18.82 | 17.67 |
| | | 1860 (18700) | 19.63 | 19.00 | 17.75 |
| | 1RB-Middle (50) | 1900 (19100) | 19.56 | 18.77 | 17.68 |
| | | 1880 (18900) | 19.68 | 19.02 | 17.83 |
| | | 1860 (18700) | 19.70 | 19.01 | 17.85 |
| | 1RB-Low (0) | 1900 (19100) | 19.47 | 18.84 | 17.68 |
| | | 1880 (18900) | 19.65 | 19.06 | 17.81 |
| | | 1860 (18700) | 19.76 | 19.10 | 17.99 |
| | 50RB-High (50) | 1900 (19100) | 18.55 | 17.52 | 16.48 |
| | | 1880 (18900) | 18.56 | 17.54 | 16.53 |
| | | 1860 (18700) | 18.71 | 17.67 | 16.73 |
| | 50RB-Middle (25) | 1900 (19100) | 18.56 | 17.56 | 16.54 |
| | | 1880 (18900) | 18.64 | 17.59 | 16.63 |
| | | 1860 (18700) | 18.75 | 17.71 | 16.69 |
| | 50RB-Low (0) | 1900 (19100) | 18.65 | 17.63 | 16.65 |
| | | 1880 (18900) | 18.65 | 17.63 | 16.62 |
| | | 1860 (18700) | 18.78 | 17.76 | 16.84 |
| | 100RB (0) | 1900 (19100) | 18.58 | 17.54 | 16.57 |
| | | 1880 (18900) | 18.62 | 17.59 | 16.55 |
| | | 1860 (18700) | 18.76 | 17.73 | 16.69 |

| LTE Band2 ANT1-Power Level E1 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 1.4MHz | 1RB-High (5) | 1909.3 (19193) | 21.55 | 20.81 | 19.69 |
| | | 1880 (18900) | 21.68 | 20.90 | 19.82 |
| | | 1850.7 (18607) | 21.79 | 21.10 | 19.90 |
| | 1RB-Middle (3) | 1909.3 (19193) | 21.55 | 20.82 | 19.65 |
| | | 1880 (18900) | 21.70 | 20.93 | 19.84 |
| | | 1850.7 (18607) | 21.83 | 21.10 | 19.92 |
| | 1RB-Low (0) | 1909.3 (19193) | 21.60 | 20.84 | 19.69 |
| | | 1880 (18900) | 21.71 | 20.94 | 19.84 |
| | | 1850.7 (18607) | 21.79 | 21.06 | 19.98 |
| | 3RB-High (3) | 1909.3 (19193) | 21.63 | 20.55 | 19.70 |
| | | 1880 (18900) | 21.74 | 20.69 | 19.73 |
| | | 1850.7 (18607) | 21.83 | 20.78 | 19.91 |
| | 3RB-Middle (1) | 1909.3 (19193) | 21.61 | 20.66 | 19.73 |
| | | 1880 (18900) | 21.77 | 20.71 | 19.80 |
| | | 1850.7 (18607) | 21.85 | 20.77 | 19.91 |
| | 3RB-Low (0) | 1909.3 (19193) | 21.64 | 20.60 | 19.67 |
| | | 1880 (18900) | 21.76 | 20.76 | 19.83 |
| | | 1850.7 (18607) | 21.85 | 20.83 | 19.89 |
| | 6RB (0) | 1909.3 (19193) | 20.58 | 19.67 | 18.58 |
| | | 1880 (18900) | 20.74 | 19.73 | 18.64 |
| | | 1850.7 (18607) | 20.83 | 19.85 | 18.76 |
| 3MHz | 1RB-High (14) | 1908.5 (19185) | 21.60 | 20.90 | 19.78 |
| | | 1880 (18900) | 21.73 | 21.02 | 19.85 |
| | | 1851.5 (18615) | 21.85 | 21.21 | 20.03 |
| | 1RB-Middle (7) | 1908.5 (19185) | 21.63 | 20.87 | 19.82 |
| | | 1880 (18900) | 21.78 | 21.07 | 19.86 |
| | | 1851.5 (18615) | 21.82 | 21.14 | 20.05 |
| | 1RB-Low (0) | 1908.5 (19185) | 21.62 | 21.00 | 19.79 |
| | | 1880 (18900) | 21.75 | 21.08 | 19.85 |
| | | 1851.5 (18615) | 21.82 | 21.18 | 20.00 |
| | 8RB-High (7) | 1908.5 (19185) | 20.63 | 19.71 | 18.65 |
| | | 1880 (18900) | 20.71 | 19.71 | 18.71 |
| | | 1851.5 (18615) | 20.81 | 19.90 | 18.83 |
| | 8RB-Middle (4) | 1908.5 (19185) | 20.56 | 19.68 | 18.61 |
| | | 1880 (18900) | 20.70 | 19.78 | 18.73 |
| | | 1851.5 (18615) | 20.84 | 19.92 | 18.84 |
| | 8RB-Low (0) | 1908.5 (19185) | 20.64 | 19.67 | 18.61 |
| | | 1880 (18900) | 20.77 | 19.78 | 18.77 |
| | | 1851.5 (18615) | 20.86 | 19.88 | 18.84 |
| | 15RB (0) | 1908.5 (19185) | 20.65 | 19.61 | 18.62 |
| | | 1880 (18900) | 20.72 | 19.77 | 18.71 |
| | | 1851.5 (18615) | 20.85 | 19.86 | 18.78 |

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|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 1907.5 (19175) | 21.70 | 20.86 | 19.78 |
| | | 1880 (18900) | 21.72 | 20.95 | 19.77 |
| | | 1852.5 (18625) | 21.89 | 21.05 | 19.95 |
| | 1RB-Middle (12) | 1907.5 (19175) | 21.78 | 20.94 | 19.84 |
| | | 1880 (18900) | 21.84 | 21.11 | 19.95 |
| | | 1852.5 (18625) | 21.94 | 21.13 | 20.02 |
| | 1RB-Low (0) | 1907.5 (19175) | 21.72 | 20.99 | 19.83 |
| | | 1880 (18900) | 21.81 | 21.06 | 19.90 |
| | | 1852.5 (18625) | 21.86 | 21.15 | 20.00 |
| | 12RB-High (13) | 1907.5 (19175) | 20.64 | 19.59 | 18.58 |
| | | 1880 (18900) | 20.67 | 19.66 | 18.70 |
| | | 1852.5 (18625) | 20.81 | 19.84 | 18.82 |
| | 12RB-Middle (6) | 1907.5 (19175) | 20.72 | 19.62 | 18.61 |
| | | 1880 (18900) | 20.78 | 19.73 | 18.75 |
| | | 1852.5 (18625) | 20.84 | 19.86 | 18.82 |
| | 12RB-Low (0) | 1907.5 (19175) | 20.74 | 19.71 | 18.64 |
| | | 1880 (18900) | 20.83 | 19.81 | 18.76 |
| | | 1852.5 (18625) | 20.87 | 19.91 | 18.89 |
| | 25RB (0) | 1907.5 (19175) | 20.72 | 19.64 | 18.61 |
| | | 1880 (18900) | 20.75 | 19.77 | 18.75 |
| | | 1852.5 (18625) | 20.91 | 19.87 | 18.84 |
| 10MHz | 1RB-High (49) | 1905 (19150) | 21.59 | 20.80 | 19.72 |
| | | 1880 (18900) | 21.70 | 20.91 | 19.78 |
| | | 1855 (18650) | 21.84 | 21.00 | 19.94 |
| | 1RB-Middle (24) | 1905 (19150) | 21.70 | 21.03 | 19.84 |
| | | 1880 (18900) | 21.78 | 21.12 | 19.94 |
| | | 1855 (18650) | 21.88 | 21.17 | 20.06 |
| | 1RB-Low (0) | 1905 (19150) | 21.75 | 20.98 | 19.89 |
| | | 1880 (18900) | 21.83 | 21.00 | 19.98 |
| | | 1855 (18650) | 21.89 | 21.06 | 20.03 |
| | 25RB-High (25) | 1905 (19150) | 20.68 | 19.63 | 18.64 |
| | | 1880 (18900) | 20.76 | 19.70 | 18.69 |
| | | 1855 (18650) | 20.85 | 19.84 | 18.78 |
| | 25RB-Middle (12) | 1905 (19150) | 20.71 | 19.72 | 18.65 |
| | | 1880 (18900) | 20.75 | 19.76 | 18.73 |
| | | 1855 (18650) | 20.82 | 19.80 | 18.84 |
| | 25RB-Low (0) | 1905 (19150) | 20.71 | 19.74 | 18.72 |
| | | 1880 (18900) | 20.79 | 19.80 | 18.77 |
| | | 1855 (18650) | 20.84 | 19.82 | 18.86 |
| | 50RB (0) | 1905 (19150) | 20.72 | 19.70 | 18.68 |
| | | 1880 (18900) | 20.79 | 19.75 | 18.69 |
| | | 1855 (18650) | 20.87 | 19.84 | 18.81 |

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| 15MHz | 1RB-High (74) | 1902.5 (19125) | 21.48 | 20.78 | 19.65 |
| | | 1880 (18900) | 21.55 | 21.32 | 19.74 |
| | | 1857.5 (18675) | 21.72 | 21.03 | 19.92 |
| | 1RB-Middle (37) | 1902.5 (19125) | 21.61 | 20.98 | 19.80 |
| | | 1880 (18900) | 21.74 | 20.96 | 19.91 |
| | | 1857.5 (18675) | 21.74 | 21.05 | 19.95 |
| | 1RB-Low (0) | 1902.5 (19125) | 21.60 | 20.92 | 19.78 |
| | | 1880 (18900) | 21.78 | 21.01 | 19.87 |
| | | 1857.5 (18675) | 21.76 | 21.13 | 19.90 |
| | 36RB-High (38) | 1902.5 (19125) | 20.55 | 19.57 | 18.61 |
| | | 1880 (18900) | 20.60 | 19.61 | 18.70 |
| | | 1857.5 (18675) | 20.70 | 19.75 | 18.69 |
| | 36RB-Middle (19) | 1902.5 (19125) | 20.60 | 19.64 | 18.62 |
| | | 1880 (18900) | 20.68 | 19.65 | 18.66 |
| | | 1857.5 (18675) | 20.73 | 19.75 | 18.76 |
| | 36RB-Low (0) | 1902.5 (19125) | 20.66 | 19.71 | 18.69 |
| | | 1880 (18900) | 20.77 | 19.71 | 18.70 |
| | | 1857.5 (18675) | 20.82 | 19.84 | 18.74 |
| | 75RB (0) | 1902.5 (19125) | 20.68 | 19.66 | 18.65 |
| | | 1880 (18900) | 20.68 | 19.62 | 18.65 |
| | | 1857.5 (18675) | 20.73 | 19.74 | 18.71 |
| 20MHz | 1RB-High (99) | 1900 (19100) | 21.51 | 20.75 | 19.65 |
| | | 1880 (18900) | 21.53 | 20.86 | 19.63 |
| | | 1860 (18700) | 21.70 | 20.85 | 19.76 |
| | 1RB-Middle (50) | 1900 (19100) | 21.71 | 20.91 | 19.83 |
| | | 1880 (18900) | 21.72 | 20.94 | 19.80 |
| | | 1860 (18700) | 21.78 | 21.00 | 19.88 |
| | 1RB-Low (0) | 1900 (19100) | 21.57 | 20.78 | 19.76 |
| | | 1880 (18900) | 21.73 | 21.02 | 19.79 |
| | | 1860 (18700) | 21.76 | 21.09 | 19.96 |
| | 50RB-High (50) | 1900 (19100) | 20.62 | 19.64 | 18.63 |
| | | 1880 (18900) | 20.66 | 19.65 | 18.61 |
| | | 1860 (18700) | 20.78 | 19.71 | 18.72 |
| | 50RB-Middle (25) | 1900 (19100) | 20.71 | 19.72 | 18.66 |
| | | 1880 (18900) | 20.76 | 19.73 | 18.67 |
| | | 1860 (18700) | 20.78 | 19.74 | 18.73 |
| | 50RB-Low (0) | 1900 (19100) | 20.75 | 19.75 | 18.73 |
| | | 1880 (18900) | 20.77 | 19.76 | 18.71 |
| | | 1860 (18700) | 20.80 | 19.79 | 18.75 |
| | 100RB (0) | 1900 (19100) | 20.73 | 19.69 | 18.63 |
| | | 1880 (18900) | 20.72 | 19.69 | 18.63 |
| | | 1860 (18700) | 20.82 | 19.76 | 18.73 |

| LTE Band2 ANT1-Power Level F2 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 1.4MHz | 1RB-High (5) | 1909.3 (19193) | 17.39 | 16.71 | 15.60 |
| | | 1880 (18900) | 17.51 | 16.67 | 15.56 |
| | | 1850.7 (18607) | 17.29 | 16.77 | 15.73 |
| | 1RB-Middle (3) | 1909.3 (19193) | 17.53 | 16.85 | 15.79 |
| | | 1880 (18900) | 17.50 | 16.96 | 15.94 |
| | | 1850.7 (18607) | 17.73 | 16.94 | 15.88 |
| | 1RB-Low (0) | 1909.3 (19193) | 17.54 | 16.88 | 15.78 |
| | | 1880 (18900) | 17.60 | 16.91 | 15.84 |
| | | 1850.7 (18607) | 17.35 | 16.82 | 15.69 |
| | 3RB-High (3) | 1909.3 (19193) | 16.65 | 15.71 | 14.47 |
| | | 1880 (18900) | 16.48 | 15.53 | 14.51 |
| | | 1850.7 (18607) | 16.53 | 15.47 | 14.53 |
| | 3RB-Middle (1) | 1909.3 (19193) | 16.51 | 15.56 | 14.54 |
| | | 1880 (18900) | 16.42 | 15.72 | 14.34 |
| | | 1850.7 (18607) | 16.74 | 15.52 | 14.41 |
| | 3RB-Low (0) | 1909.3 (19193) | 16.69 | 15.68 | 14.73 |
| | | 1880 (18900) | 16.40 | 15.47 | 14.64 |
| | | 1850.7 (18607) | 16.56 | 15.70 | 14.52 |
| | 6RB (0) | 1909.3 (19193) | 16.65 | 15.72 | 14.44 |
| | | 1880 (18900) | 16.52 | 15.47 | 14.42 |
| | | 1850.7 (18607) | 16.56 | 15.53 | 14.44 |
| 3MHz | 1RB-High (14) | 1908.5 (19185) | 17.30 | 16.76 | 15.52 |
| | | 1880 (18900) | 17.31 | 16.62 | 15.61 |
| | | 1851.5 (18615) | 17.53 | 16.68 | 15.55 |
| | 1RB-Middle (7) | 1908.5 (19185) | 17.42 | 16.80 | 15.80 |
| | | 1880 (18900) | 17.43 | 16.85 | 16.01 |
| | | 1851.5 (18615) | 17.62 | 16.85 | 15.68 |
| | 1RB-Low (0) | 1908.5 (19185) | 17.29 | 16.77 | 15.66 |
| | | 1880 (18900) | 17.62 | 16.90 | 15.62 |
| | | 1851.5 (18615) | 17.57 | 16.93 | 15.69 |
| | 8RB-High (7) | 1908.5 (19185) | 16.55 | 15.55 | 14.50 |
| | | 1880 (18900) | 16.64 | 15.63 | 14.46 |
| | | 1851.5 (18615) | 16.76 | 15.51 | 14.69 |
| | 8RB-Middle (4) | 1908.5 (19185) | 16.66 | 15.47 | 14.58 |
| | | 1880 (18900) | 16.37 | 15.71 | 14.56 |
| | | 1851.5 (18615) | 16.70 | 15.49 | 14.34 |
| | 8RB-Low (0) | 1908.5 (19185) | 16.63 | 15.81 | 14.71 |
| | | 1880 (18900) | 16.36 | 15.71 | 14.68 |
| | | 1851.5 (18615) | 16.65 | 15.61 | 14.58 |
| | 15RB (0) | 1908.5 (19185) | 16.52 | 15.66 | 14.55 |
| | | 1880 (18900) | 16.56 | 15.57 | 14.58 |
| | | 1851.5 (18615) | 16.68 | 15.48 | 14.59 |

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|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 1907.5 (19175) | 17.36 | 16.59 | 15.50 |
| | | 1880 (18900) | 17.33 | 16.54 | 15.51 |
| | | 1852.5 (18625) | 17.49 | 16.57 | 15.56 |
| | 1RB-Middle (12) | 1907.5 (19175) | 17.46 | 16.82 | 15.76 |
| | | 1880 (18900) | 17.61 | 16.93 | 15.86 |
| | | 1852.5 (18625) | 17.58 | 16.73 | 15.75 |
| | 1RB-Low (0) | 1907.5 (19175) | 17.37 | 16.60 | 15.65 |
| | | 1880 (18900) | 17.56 | 16.87 | 15.84 |
| | | 1852.5 (18625) | 17.53 | 16.89 | 15.65 |
| | 12RB-High (13) | 1907.5 (19175) | 16.61 | 15.57 | 14.32 |
| | | 1880 (18900) | 16.45 | 15.71 | 14.56 |
| | | 1852.5 (18625) | 16.54 | 15.65 | 14.71 |
| | 12RB-Middle (6) | 1907.5 (19175) | 16.43 | 15.48 | 14.68 |
| | | 1880 (18900) | 16.54 | 15.73 | 14.53 |
| | | 1852.5 (18625) | 16.80 | 15.70 | 14.56 |
| | 12RB-Low (0) | 1907.5 (19175) | 16.80 | 15.54 | 14.78 |
| | | 1880 (18900) | 16.45 | 15.56 | 14.58 |
| | | 1852.5 (18625) | 16.59 | 15.66 | 14.62 |
| | 25RB (0) | 1907.5 (19175) | 16.52 | 15.70 | 14.47 |
| | | 1880 (18900) | 16.47 | 15.69 | 14.61 |
| | | 1852.5 (18625) | 16.73 | 15.48 | 14.51 |
| 10MHz | 1RB-High (49) | 1905 (19150) | 17.39 | 16.53 | 15.65 |
| | | 1880 (18900) | 17.43 | 16.67 | 15.57 |
| | | 1855 (18650) | 17.57 | 16.73 | 15.50 |
| | 1RB-Middle (24) | 1905 (19150) | 17.44 | 16.79 | 15.84 |
| | | 1880 (18900) | 17.70 | 16.82 | 16.02 |
| | | 1855 (18650) | 17.69 | 16.88 | 15.89 |
| | 1RB-Low (0) | 1905 (19150) | 17.38 | 16.66 | 15.67 |
| | | 1880 (18900) | 17.65 | 16.77 | 15.77 |
| | | 1855 (18650) | 17.57 | 17.00 | 15.77 |
| | 25RB-High (25) | 1905 (19150) | 16.50 | 15.52 | 14.27 |
| | | 1880 (18900) | 16.56 | 15.55 | 14.63 |
| | | 1855 (18650) | 16.59 | 15.52 | 14.46 |
| | 25RB-Middle (12) | 1905 (19150) | 16.62 | 15.49 | 14.61 |
| | | 1880 (18900) | 16.48 | 15.56 | 14.61 |
| | | 1855 (18650) | 16.78 | 15.70 | 14.57 |
| | 25RB-Low (0) | 1905 (19150) | 16.77 | 15.77 | 14.65 |
| | | 1880 (18900) | 16.57 | 15.56 | 14.40 |
| | | 1855 (18650) | 16.59 | 15.54 | 14.60 |
| | 50RB (0) | 1905 (19150) | 16.69 | 15.68 | 14.62 |
| | | 1880 (18900) | 16.54 | 15.64 | 14.45 |
| | | 1855 (18650) | 16.77 | 15.72 | 14.48 |

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| 15MHz | 1RB-High (74) | 1902.5 (19125) | 17.25 | 16.81 | 15.61 |
| | | 1880 (18900) | 17.26 | 16.48 | 15.66 |
| | | 1857.5 (18675) | 17.46 | 16.86 | 15.61 |
| | 1RB-Middle (37) | 1902.5 (19125) | 17.41 | 16.94 | 15.91 |
| | | 1880 (18900) | 17.67 | 16.97 | 15.94 |
| | | 1857.5 (18675) | 17.53 | 16.93 | 15.74 |
| | 1RB-Low (0) | 1902.5 (19125) | 17.53 | 16.62 | 15.67 |
| | | 1880 (18900) | 17.39 | 16.81 | 15.68 |
| | | 1857.5 (18675) | 17.51 | 16.78 | 15.89 |
| | 36RB-High (38) | 1902.5 (19125) | 16.57 | 15.66 | 14.48 |
| | | 1880 (18900) | 16.44 | 15.59 | 14.50 |
| | | 1857.5 (18675) | 16.80 | 15.54 | 14.57 |
| | 36RB-Middle (19) | 1902.5 (19125) | 16.68 | 15.56 | 14.68 |
| | | 1880 (18900) | 16.52 | 15.65 | 14.39 |
| | | 1857.5 (18675) | 16.54 | 15.70 | 14.43 |
| | 36RB-Low (0) | 1902.5 (19125) | 16.56 | 15.81 | 14.53 |
| | | 1880 (18900) | 16.56 | 15.53 | 14.67 |
| | | 1857.5 (18675) | 16.83 | 15.57 | 14.53 |
| | 75RB (0) | 1902.5 (19125) | 16.60 | 15.57 | 14.53 |
| | | 1880 (18900) | 16.61 | 15.56 | 14.51 |
| | | 1857.5 (18675) | 16.79 | 15.55 | 14.54 |
| 20MHz | 1RB-High (99) | 1900 (19100) | 17.31 | 16.67 | 15.59 |
| | | 1880 (18900) | 17.41 | 16.60 | 15.53 |
| | | 1860 (18700) | 17.44 | 16.71 | 15.60 |
| | 1RB-Middle (50) | 1900 (19100) | 17.47 | 16.90 | 15.79 |
| | | 1880 (18900) | 17.56 | 16.89 | 15.88 |
| | | 1860 (18700) | 17.58 | 16.88 | 15.76 |
| | 1RB-Low (0) | 1900 (19100) | 17.43 | 16.74 | 15.72 |
| | | 1880 (18900) | 17.53 | 16.81 | 15.73 |
| | | 1860 (18700) | 17.48 | 16.92 | 15.80 |
| | 50RB-High (50) | 1900 (19100) | 16.57 | 15.56 | 14.37 |
| | | 1880 (18900) | 16.50 | 15.62 | 14.52 |
| | | 1860 (18700) | 16.65 | 15.59 | 14.59 |
| | 50RB-Middle (25) | 1900 (19100) | 16.56 | 15.60 | 14.58 |
| | | 1880 (18900) | 16.49 | 15.61 | 14.47 |
| | | 1860 (18700) | 16.66 | 15.64 | 14.48 |
| | 50RB-Low (0) | 1900 (19100) | 16.70 | 15.68 | 14.65 |
| | | 1880 (18900) | 16.50 | 15.60 | 14.55 |
| | | 1860 (18700) | 16.69 | 15.69 | 14.67 |
| | 100RB (0) | 1900 (19100) | 16.59 | 15.63 | 14.50 |
| | | 1880 (18900) | 16.46 | 15.57 | 14.53 |
| | | 1860 (18700) | 16.67 | 15.61 | 14.56 |

| LTE Band2 ANT4-Power Level A1 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 1.4MHz | 1RB-High (5) | 1909.3 (19193) | 23.06 | 21.95 | 20.86 |
| | | 1880 (18900) | 23.23 | 22.18 | 21.16 |
| | | 1850.7 (18607) | 23.53 | 22.26 | 21.22 |
| | 1RB-Middle (3) | 1909.3 (19193) | 23.16 | 22.11 | 21.14 |
| | | 1880 (18900) | 23.57 | 22.26 | 21.48 |
| | | 1850.7 (18607) | 23.42 | 22.31 | 21.54 |
| | 1RB-Low (0) | 1909.3 (19193) | 23.13 | 22.00 | 20.97 |
| | | 1880 (18900) | 23.42 | 22.34 | 21.23 |
| | | 1850.7 (18607) | 23.64 | 22.50 | 21.35 |
| | 3RB-High (3) | 1909.3 (19193) | 22.14 | 21.32 | 20.98 |
| | | 1880 (18900) | 22.13 | 21.20 | 21.42 |
| | | 1850.7 (18607) | 22.51 | 21.43 | 21.44 |
| | 3RB-Middle (1) | 1909.3 (19193) | 22.06 | 21.18 | 21.02 |
| | | 1880 (18900) | 22.31 | 21.15 | 21.46 |
| | | 1850.7 (18607) | 22.64 | 21.40 | 21.55 |
| | 3RB-Low (0) | 1909.3 (19193) | 22.20 | 21.17 | 21.10 |
| | | 1880 (18900) | 22.41 | 21.25 | 21.39 |
| | | 1850.7 (18607) | 22.64 | 21.37 | 21.32 |
| | 6RB (0) | 1909.3 (19193) | 22.07 | 20.82 | 20.10 |
| | | 1880 (18900) | 22.39 | 21.08 | 20.42 |
| | | 1850.7 (18607) | 22.51 | 21.49 | 20.41 |
| 3MHz | 1RB-High (14) | 1908.5 (19185) | 22.92 | 21.86 | 20.82 |
| | | 1880 (18900) | 23.34 | 22.22 | 21.31 |
| | | 1851.5 (18615) | 23.33 | 22.27 | 21.20 |
| | 1RB-Middle (7) | 1908.5 (19185) | 23.21 | 22.15 | 21.18 |
| | | 1880 (18900) | 23.47 | 22.16 | 21.35 |
| | | 1851.5 (18615) | 23.45 | 22.30 | 21.46 |
| | 1RB-Low (0) | 1908.5 (19185) | 23.09 | 22.06 | 21.16 |
| | | 1880 (18900) | 23.31 | 22.41 | 21.24 |
| | | 1851.5 (18615) | 23.46 | 22.33 | 21.60 |
| | 8RB-High (7) | 1908.5 (19185) | 21.99 | 20.97 | 19.90 |
| | | 1880 (18900) | 22.31 | 21.09 | 20.17 |
| | | 1851.5 (18615) | 22.53 | 21.44 | 20.34 |
| | 8RB-Middle (4) | 1908.5 (19185) | 22.24 | 21.04 | 20.13 |
| | | 1880 (18900) | 22.20 | 21.35 | 20.37 |
| | | 1851.5 (18615) | 22.59 | 21.46 | 20.52 |
| | 8RB-Low (0) | 1908.5 (19185) | 22.11 | 21.24 | 20.11 |
| | | 1880 (18900) | 22.40 | 21.37 | 20.38 |
| | | 1851.5 (18615) | 22.59 | 21.53 | 20.42 |
| | 15RB (0) | 1908.5 (19185) | 22.07 | 21.01 | 20.12 |
| | | 1880 (18900) | 22.38 | 21.15 | 20.36 |
| | | 1851.5 (18615) | 22.51 | 21.41 | 20.42 |

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|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 1907.5 (19175) | 22.94 | 21.96 | 20.81 |
| | | 1880 (18900) | 23.07 | 22.22 | 21.03 |
| | | 1852.5 (18625) | 23.44 | 22.22 | 21.45 |
| | 1RB-Middle (12) | 1907.5 (19175) | 23.28 | 22.25 | 21.07 |
| | | 1880 (18900) | 23.41 | 22.43 | 21.41 |
| | | 1852.5 (18625) | 23.54 | 22.29 | 21.63 |
| | 1RB-Low (0) | 1907.5 (19175) | 23.24 | 21.96 | 21.18 |
| | | 1880 (18900) | 23.54 | 22.39 | 21.28 |
| | | 1852.5 (18625) | 23.59 | 22.54 | 21.38 |
| | 12RB-High (13) | 1907.5 (19175) | 22.04 | 20.86 | 19.76 |
| | | 1880 (18900) | 22.20 | 21.21 | 20.17 |
| | | 1852.5 (18625) | 22.39 | 21.60 | 20.55 |
| | 12RB-Middle (6) | 1907.5 (19175) | 22.29 | 21.18 | 20.03 |
| | | 1880 (18900) | 22.20 | 21.14 | 20.38 |
| | | 1852.5 (18625) | 22.63 | 21.32 | 20.48 |
| | 12RB-Low (0) | 1907.5 (19175) | 22.23 | 21.06 | 20.20 |
| | | 1880 (18900) | 22.40 | 21.42 | 20.50 |
| | | 1852.5 (18625) | 22.56 | 21.40 | 20.32 |
| | 25RB (0) | 1907.5 (19175) | 22.10 | 20.83 | 19.99 |
| | | 1880 (18900) | 22.29 | 21.23 | 20.33 |
| | | 1852.5 (18625) | 22.68 | 21.50 | 20.50 |
| 10MHz | 1RB-High (49) | 1905 (19150) | 22.92 | 21.81 | 20.89 |
| | | 1880 (18900) | 23.08 | 22.19 | 21.26 |
| | | 1855 (18650) | 23.28 | 22.25 | 21.19 |
| | 1RB-Middle (24) | 1905 (19150) | 23.28 | 22.23 | 21.12 |
| | | 1880 (18900) | 23.43 | 22.42 | 21.37 |
| | | 1855 (18650) | 23.54 | 22.48 | 21.52 |
| | 1RB-Low (0) | 1905 (19150) | 23.12 | 22.15 | 21.07 |
| | | 1880 (18900) | 23.27 | 22.23 | 21.51 |
| | | 1855 (18650) | 23.49 | 22.35 | 21.56 |
| | 25RB-High (25) | 1905 (19150) | 22.12 | 20.96 | 20.01 |
| | | 1880 (18900) | 22.40 | 21.11 | 20.37 |
| | | 1855 (18650) | 22.57 | 21.48 | 20.34 |
| | 25RB-Middle (12) | 1905 (19150) | 22.10 | 21.01 | 20.07 |
| | | 1880 (18900) | 22.21 | 21.21 | 20.46 |
| | | 1855 (18650) | 22.41 | 21.37 | 20.46 |
| | 25RB-Low (0) | 1905 (19150) | 22.19 | 20.97 | 20.12 |
| | | 1880 (18900) | 22.27 | 21.20 | 20.38 |
| | | 1855 (18650) | 22.49 | 21.52 | 20.58 |
| | 50RB (0) | 1905 (19150) | 21.93 | 21.05 | 19.95 |
| | | 1880 (18900) | 22.19 | 20.99 | 20.48 |
| | | 1855 (18650) | 22.68 | 21.58 | 20.68 |

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|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 1902.5 (19125) | 23.09 | 21.89 | 20.97 |
| | | 1880 (18900) | 23.28 | 22.15 | 21.27 |
| | | 1857.5 (18675) | 23.37 | 22.32 | 21.31 |
| | 1RB-Middle (37) | 1902.5 (19125) | 23.08 | 22.14 | 20.95 |
| | | 1880 (18900) | 23.53 | 22.37 | 21.55 |
| | | 1857.5 (18675) | 23.60 | 22.44 | 21.67 |
| | 1RB-Low (0) | 1902.5 (19125) | 23.03 | 21.98 | 21.16 |
| | | 1880 (18900) | 23.40 | 22.32 | 21.33 |
| | | 1857.5 (18675) | 23.49 | 22.55 | 21.49 |
| | 36RB-High (38) | 1902.5 (19125) | 22.06 | 21.02 | 19.83 |
| | | 1880 (18900) | 22.24 | 21.21 | 20.14 |
| | | 1857.5 (18675) | 22.42 | 21.34 | 20.29 |
| | 36RB-Middle (19) | 1902.5 (19125) | 22.33 | 21.08 | 20.18 |
| | | 1880 (18900) | 22.29 | 21.22 | 20.45 |
| | | 1857.5 (18675) | 22.47 | 21.54 | 20.33 |
| | 36RB-Low (0) | 1902.5 (19125) | 22.05 | 20.95 | 20.18 |
| | | 1880 (18900) | 22.31 | 21.36 | 20.21 |
| | | 1857.5 (18675) | 22.62 | 21.38 | 20.36 |
| | 75RB (0) | 1902.5 (19125) | 22.16 | 20.97 | 20.19 |
| | | 1880 (18900) | 22.24 | 21.00 | 20.22 |
| | | 1857.5 (18675) | 22.44 | 21.56 | 20.45 |
| 20MHz | 1RB-High (99) | 1900 (19100) | 23.07 | 21.93 | 20.96 |
| | | 1880 (18900) | 23.22 | 22.10 | 21.17 |
| | | 1860 (18700) | 23.38 | 22.25 | 21.34 |
| | 1RB-Middle (50) | 1900 (19100) | 23.17 | 22.10 | 21.03 |
| | | 1880 (18900) | 23.43 | 22.30 | 21.48 |
| | | 1860 (18700) | 23.54 | 22.41 | 21.61 |
| | 1RB-Low (0) | 1900 (19100) | 23.15 | 22.07 | 21.05 |
| | | 1880 (18900) | 23.41 | 22.31 | 21.37 |
| | | 1860 (18700) | 23.57 | 22.46 | 21.46 |
| | 50RB-High (50) | 1900 (19100) | 22.02 | 20.87 | 19.88 |
| | | 1880 (18900) | 22.27 | 21.18 | 20.29 |
| | | 1860 (18700) | 22.47 | 21.47 | 20.40 |
| | 50RB-Middle (25) | 1900 (19100) | 22.18 | 21.08 | 20.15 |
| | | 1880 (18900) | 22.33 | 21.25 | 20.38 |
| | | 1860 (18700) | 22.54 | 21.47 | 20.46 |
| | 50RB-Low (0) | 1900 (19100) | 22.13 | 21.10 | 20.11 |
| | | 1880 (18900) | 22.32 | 21.29 | 20.36 |
| | | 1860 (18700) | 22.53 | 21.40 | 20.43 |
| | 100RB (0) | 1900 (19100) | 22.06 | 20.95 | 20.09 |
| | | 1880 (18900) | 22.29 | 21.14 | 20.35 |
| | | 1860 (18700) | 22.53 | 21.43 | 20.53 |

| LTE Band2 ANT4-Power Level B1/C1/D1/F1 | | | | | |
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| 1.4MHz | 1RB-High (5) | 1909.3 (19193) | 15.63 | 16.06 | 15.80 |
| | | 1880 (18900) | 15.75 | 16.39 | 15.84 |
| | | 1850.7 (18607) | 15.87 | 16.20 | 16.29 |
| | 1RB-Middle (3) | 1909.3 (19193) | 15.64 | 15.88 | 15.81 |
| | | 1880 (18900) | 15.57 | 16.16 | 16.30 |
| | | 1850.7 (18607) | 16.00 | 16.03 | 15.76 |
| | 1RB-Low (0) | 1909.3 (19193) | 15.84 | 16.02 | 16.31 |
| | | 1880 (18900) | 16.14 | 16.15 | 15.89 |
| | | 1850.7 (18607) | 16.06 | 15.94 | 16.36 |
| | 3RB-High (3) | 1909.3 (19193) | 15.54 | 15.97 | 16.30 |
| | | 1880 (18900) | 15.69 | 16.22 | 16.03 |
| | | 1850.7 (18607) | 16.03 | 16.25 | 16.03 |
| | 3RB-Middle (1) | 1909.3 (19193) | 15.65 | 15.96 | 16.16 |
| | | 1880 (18900) | 15.86 | 15.94 | 15.86 |
| | | 1850.7 (18607) | 16.29 | 16.23 | 16.16 |
| | 3RB-Low (0) | 1909.3 (19193) | 15.61 | 16.15 | 16.24 |
| | | 1880 (18900) | 16.06 | 16.22 | 16.33 |
| | | 1850.7 (18607) | 16.25 | 15.81 | 16.18 |
| | 6RB (0) | 1909.3 (19193) | 15.81 | 15.79 | 16.32 |
| | | 1880 (18900) | 15.93 | 15.86 | 16.01 |
| | | 1850.7 (18607) | 16.05 | 16.19 | 16.24 |
| 3MHz | 1RB-High (14) | 1908.5 (19185) | 15.62 | 16.08 | 15.98 |
| | | 1880 (18900) | 15.84 | 16.14 | 15.96 |
| | | 1851.5 (18615) | 15.93 | 16.29 | 16.22 |
| | 1RB-Middle (7) | 1908.5 (19185) | 15.69 | 15.73 | 15.79 |
| | | 1880 (18900) | 15.76 | 16.03 | 16.30 |
| | | 1851.5 (18615) | 16.05 | 16.22 | 15.79 |
| | 1RB-Low (0) | 1908.5 (19185) | 15.85 | 16.00 | 16.17 |
| | | 1880 (18900) | 16.04 | 16.29 | 15.91 |
| | | 1851.5 (18615) | 16.00 | 16.06 | 16.23 |
| | 8RB-High (7) | 1908.5 (19185) | 15.56 | 15.86 | 16.09 |
| | | 1880 (18900) | 15.62 | 16.32 | 16.05 |
| | | 1851.5 (18615) | 16.04 | 16.31 | 16.27 |
| | 8RB-Middle (4) | 1908.5 (19185) | 15.77 | 15.78 | 16.16 |
| | | 1880 (18900) | 15.82 | 15.82 | 15.88 |
| | | 1851.5 (18615) | 16.23 | 16.11 | 16.22 |
| | 8RB-Low (0) | 1908.5 (19185) | 15.67 | 16.36 | 16.23 |
| | | 1880 (18900) | 16.05 | 16.25 | 16.30 |
| | | 1851.5 (18615) | 16.26 | 16.01 | 16.23 |
| | 15RB (0) | 1908.5 (19185) | 15.83 | 16.00 | 16.33 |
| | | 1880 (18900) | 15.99 | 16.10 | 16.05 |
| | | 1851.5 (18615) | 16.12 | 16.34 | 16.31 |

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| 5MHz | 1RB-High (24) | 1907.5 (19175) | 15.66 | 15.95 | 15.74 |
| | | 1880 (18900) | 15.85 | 16.32 | 15.71 |
| | | 1852.5 (18625) | 15.77 | 16.21 | 16.16 |
| | 1RB-Middle (12) | 1907.5 (19175) | 15.69 | 15.96 | 16.07 |
| | | 1880 (18900) | 15.68 | 16.31 | 16.27 |
| | | 1852.5 (18625) | 16.05 | 16.25 | 15.97 |
| | 1RB-Low (0) | 1907.5 (19175) | 15.86 | 15.81 | 16.10 |
| | | 1880 (18900) | 16.05 | 16.16 | 15.84 |
| | | 1852.5 (18625) | 16.02 | 16.14 | 16.30 |
| | 12RB-High (13) | 1907.5 (19175) | 15.48 | 15.87 | 16.28 |
| | | 1880 (18900) | 15.73 | 16.37 | 16.09 |
| | | 1852.5 (18625) | 16.15 | 16.20 | 16.02 |
| | 12RB-Middle (6) | 1907.5 (19175) | 15.60 | 15.70 | 16.04 |
| | | 1880 (18900) | 15.95 | 15.96 | 15.86 |
| | | 1852.5 (18625) | 16.09 | 16.14 | 16.19 |
| | 12RB-Low (0) | 1907.5 (19175) | 15.60 | 16.24 | 16.17 |
| | | 1880 (18900) | 16.03 | 16.07 | 16.19 |
| | | 1852.5 (18625) | 16.17 | 15.90 | 16.04 |
| | 25RB (0) | 1907.5 (19175) | 15.79 | 15.74 | 16.39 |
| | | 1880 (18900) | 15.83 | 16.11 | 15.93 |
| | | 1852.5 (18625) | 16.20 | 16.19 | 16.15 |
| 10MHz | 1RB-High (49) | 1905 (19150) | 15.60 | 15.82 | 15.79 |
| | | 1880 (18900) | 15.85 | 16.36 | 15.78 |
| | | 1855 (18650) | 15.88 | 16.13 | 16.31 |
| | 1RB-Middle (24) | 1905 (19150) | 15.66 | 15.75 | 16.04 |
| | | 1880 (18900) | 15.85 | 16.30 | 16.27 |
| | | 1855 (18650) | 16.04 | 16.01 | 15.92 |
| | 1RB-Low (0) | 1905 (19150) | 15.72 | 15.99 | 16.18 |
| | | 1880 (18900) | 16.00 | 16.30 | 16.10 |
| | | 1855 (18650) | 16.06 | 15.85 | 16.35 |
| | 25RB-High (25) | 1905 (19150) | 15.63 | 15.89 | 16.09 |
| | | 1880 (18900) | 15.72 | 16.10 | 15.93 |
| | | 1855 (18650) | 16.24 | 16.17 | 16.03 |
| | 25RB-Middle (12) | 1905 (19150) | 15.82 | 15.79 | 16.29 |
| | | 1880 (18900) | 15.98 | 15.89 | 15.92 |
| | | 1855 (18650) | 16.04 | 16.16 | 15.97 |
| | 25RB-Low (0) | 1905 (19150) | 15.66 | 16.32 | 16.20 |
| | | 1880 (18900) | 16.14 | 16.02 | 16.26 |
| | | 1855 (18650) | 16.34 | 15.98 | 15.97 |
| | 50RB (0) | 1905 (19150) | 15.63 | 15.81 | 16.38 |
| | | 1880 (18900) | 15.86 | 16.11 | 15.99 |
| | | 1855 (18650) | 16.15 | 16.15 | 16.29 |

| | | | | | |
|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 1902.5 (19125) | 15.52 | 16.05 | 15.72 |
| | | 1880 (18900) | 15.84 | 16.21 | 15.72 |
| | | 1857.5 (18675) | 15.84 | 16.08 | 16.12 |
| | 1RB-Middle (37) | 1902.5 (19125) | 15.72 | 15.98 | 15.81 |
| | | 1880 (18900) | 15.84 | 16.08 | 16.33 |
| | | 1857.5 (18675) | 16.11 | 16.26 | 15.77 |
| | 1RB-Low (0) | 1902.5 (19125) | 15.87 | 16.00 | 16.35 |
| | | 1880 (18900) | 16.18 | 16.30 | 16.08 |
| | | 1857.5 (18675) | 16.24 | 15.84 | 16.28 |
| | 36RB-High (38) | 1902.5 (19125) | 15.72 | 15.86 | 16.13 |
| | | 1880 (18900) | 15.81 | 16.22 | 16.12 |
| | | 1857.5 (18675) | 16.07 | 16.28 | 16.07 |
| | 36RB-Middle (19) | 1902.5 (19125) | 15.79 | 15.95 | 16.08 |
| | | 1880 (18900) | 15.80 | 15.98 | 15.98 |
| | | 1857.5 (18675) | 16.20 | 16.11 | 15.99 |
| | 36RB-Low (0) | 1902.5 (19125) | 15.64 | 16.26 | 16.08 |
| | | 1880 (18900) | 15.97 | 16.15 | 16.13 |
| | | 1857.5 (18675) | 16.06 | 15.77 | 15.97 |
| | 75RB (0) | 1902.5 (19125) | 15.80 | 16.00 | 16.29 |
| | | 1880 (18900) | 15.89 | 16.03 | 16.08 |
| | | 1857.5 (18675) | 16.24 | 16.33 | 16.30 |
| 20MHz | 1RB-High (99) | 1900 (19100) | 15.67 | 15.97 | 15.86 |
| | | 1880 (18900) | 15.74 | 16.24 | 15.85 |
| | | 1860 (18700) | 15.92 | 16.23 | 16.25 |
| | 1RB-Middle (50) | 1900 (19100) | 15.71 | 15.85 | 15.92 |
| | | 1880 (18900) | 15.72 | 16.18 | 16.25 |
| | | 1860 (18700) | 16.10 | 16.15 | 15.89 |
| | 1RB-Low (0) | 1900 (19100) | 15.74 | 15.92 | 16.25 |
| | | 1880 (18900) | 16.03 | 16.25 | 15.97 |
| | | 1860 (18700) | 16.13 | 15.99 | 16.23 |
| | 50RB-High (50) | 1900 (19100) | 15.60 | 15.98 | 16.21 |
| | | 1880 (18900) | 15.73 | 16.23 | 16.08 |
| | | 1860 (18700) | 16.11 | 16.19 | 16.13 |
| | 50RB-Middle (25) | 1900 (19100) | 15.70 | 15.85 | 16.14 |
| | | 1880 (18900) | 15.86 | 15.93 | 15.95 |
| | | 1860 (18700) | 16.19 | 16.22 | 16.12 |
| | 50RB-Low (0) | 1900 (19100) | 15.68 | 16.23 | 16.23 |
| | | 1880 (18900) | 16.07 | 16.12 | 16.21 |
| | | 1860 (18700) | 16.20 | 15.87 | 16.09 |
| | 100RB (0) | 1900 (19100) | 15.71 | 15.87 | 16.25 |
| | | 1880 (18900) | 15.95 | 15.96 | 15.99 |
| | | 1860 (18700) | 16.18 | 16.19 | 16.25 |

| LTE Band2 ANT4-Power Level E1 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 1.4MHz | 1RB-High (5) | 1909.3 (19193) | 21.99 | 22.29 | 21.52 |
| | | 1880 (18900) | 22.05 | 22.57 | 21.56 |
| | | 1850.7 (18607) | 22.45 | 22.67 | 21.50 |
| | 1RB-Middle (3) | 1909.3 (19193) | 22.04 | 22.51 | 21.43 |
| | | 1880 (18900) | 22.03 | 22.49 | 21.77 |
| | | 1850.7 (18607) | 22.51 | 22.38 | 21.69 |
| | 1RB-Low (0) | 1909.3 (19193) | 21.99 | 22.58 | 21.68 |
| | | 1880 (18900) | 22.26 | 22.75 | 21.37 |
| | | 1850.7 (18607) | 22.50 | 22.29 | 21.73 |
| | 3RB-High (3) | 1909.3 (19193) | 22.11 | 21.54 | 20.68 |
| | | 1880 (18900) | 22.30 | 21.51 | 20.50 |
| | | 1850.7 (18607) | 22.55 | 21.59 | 20.42 |
| | 3RB-Middle (1) | 1909.3 (19193) | 22.14 | 21.46 | 20.74 |
| | | 1880 (18900) | 22.29 | 21.33 | 20.65 |
| | | 1850.7 (18607) | 22.51 | 21.65 | 20.42 |
| | 3RB-Low (0) | 1909.3 (19193) | 22.21 | 21.31 | 20.47 |
| | | 1880 (18900) | 22.36 | 21.24 | 20.63 |
| | | 1850.7 (18607) | 22.59 | 21.47 | 20.36 |
| | 6RB (0) | 1909.3 (19193) | 21.92 | 21.48 | 20.36 |
| | | 1880 (18900) | 22.27 | 21.62 | 20.60 |
| | | 1850.7 (18607) | 22.51 | 21.57 | 20.41 |
| 3MHz | 1RB-High (14) | 1908.5 (19185) | 22.21 | 22.33 | 21.48 |
| | | 1880 (18900) | 22.03 | 22.41 | 21.43 |
| | | 1851.5 (18615) | 22.35 | 22.78 | 21.59 |
| | 1RB-Middle (7) | 1908.5 (19185) | 22.24 | 22.46 | 21.47 |
| | | 1880 (18900) | 22.26 | 22.57 | 21.72 |
| | | 1851.5 (18615) | 22.46 | 22.66 | 21.65 |
| | 1RB-Low (0) | 1908.5 (19185) | 21.98 | 22.63 | 21.65 |
| | | 1880 (18900) | 22.36 | 22.55 | 21.51 |
| | | 1851.5 (18615) | 22.64 | 22.51 | 21.76 |
| | 8RB-High (7) | 1908.5 (19185) | 22.19 | 21.33 | 20.67 |
| | | 1880 (18900) | 22.23 | 21.36 | 20.45 |
| | | 1851.5 (18615) | 22.61 | 21.60 | 20.42 |
| | 8RB-Middle (4) | 1908.5 (19185) | 22.10 | 21.38 | 20.59 |
| | | 1880 (18900) | 22.28 | 21.61 | 20.71 |
| | | 1851.5 (18615) | 22.42 | 21.46 | 20.38 |
| | 8RB-Low (0) | 1908.5 (19185) | 22.06 | 21.56 | 20.29 |
| | | 1880 (18900) | 22.35 | 21.31 | 20.37 |
| | | 1851.5 (18615) | 22.54 | 21.58 | 20.44 |
| | 15RB (0) | 1908.5 (19185) | 22.11 | 21.46 | 20.45 |
| | | 1880 (18900) | 22.19 | 21.53 | 20.68 |
| | | 1851.5 (18615) | 22.38 | 21.56 | 20.63 |

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|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 1907.5 (19175) | 22.11 | 22.38 | 21.36 |
| | | 1880 (18900) | 22.21 | 22.56 | 21.70 |
| | | 1852.5 (18625) | 22.26 | 22.60 | 21.68 |
| | 1RB-Middle (12) | 1907.5 (19175) | 22.29 | 22.51 | 21.35 |
| | | 1880 (18900) | 22.07 | 22.57 | 21.75 |
| | | 1852.5 (18625) | 22.58 | 22.61 | 21.59 |
| | 1RB-Low (0) | 1907.5 (19175) | 22.10 | 22.52 | 21.55 |
| | | 1880 (18900) | 22.33 | 22.52 | 21.29 |
| | | 1852.5 (18625) | 22.70 | 22.31 | 21.49 |
| | 12RB-High (13) | 1907.5 (19175) | 22.14 | 21.61 | 20.72 |
| | | 1880 (18900) | 22.18 | 21.40 | 20.54 |
| | | 1852.5 (18625) | 22.53 | 21.60 | 20.54 |
| | 12RB-Middle (6) | 1907.5 (19175) | 22.27 | 21.32 | 20.68 |
| | | 1880 (18900) | 22.23 | 21.39 | 20.51 |
| | | 1852.5 (18625) | 22.49 | 21.59 | 20.50 |
| | 12RB-Low (0) | 1907.5 (19175) | 21.99 | 21.53 | 20.34 |
| | | 1880 (18900) | 22.46 | 21.46 | 20.59 |
| | | 1852.5 (18625) | 22.52 | 21.61 | 20.39 |
| | 25RB (0) | 1907.5 (19175) | 22.17 | 21.43 | 20.49 |
| | | 1880 (18900) | 22.30 | 21.53 | 20.70 |
| | | 1852.5 (18625) | 22.48 | 21.75 | 20.56 |
| 10MHz | 1RB-High (49) | 1905 (19150) | 22.22 | 22.51 | 21.36 |
| | | 1880 (18900) | 22.09 | 22.35 | 21.66 |
| | | 1855 (18650) | 22.47 | 22.67 | 21.66 |
| | 1RB-Middle (24) | 1905 (19150) | 22.17 | 22.38 | 21.51 |
| | | 1880 (18900) | 22.04 | 22.50 | 21.63 |
| | | 1855 (18650) | 22.55 | 22.48 | 21.77 |
| | 1RB-Low (0) | 1905 (19150) | 21.99 | 22.62 | 21.51 |
| | | 1880 (18900) | 22.30 | 22.65 | 21.34 |
| | | 1855 (18650) | 22.68 | 22.25 | 21.55 |
| | 25RB-High (25) | 1905 (19150) | 22.15 | 21.59 | 20.59 |
| | | 1880 (18900) | 22.21 | 21.52 | 20.69 |
| | | 1855 (18650) | 22.40 | 21.48 | 20.51 |
| | 25RB-Middle (12) | 1905 (19150) | 22.19 | 21.40 | 20.50 |
| | | 1880 (18900) | 22.13 | 21.62 | 20.70 |
| | | 1855 (18650) | 22.51 | 21.58 | 20.22 |
| | 25RB-Low (0) | 1905 (19150) | 22.01 | 21.50 | 20.44 |
| | | 1880 (18900) | 22.41 | 21.27 | 20.59 |
| | | 1855 (18650) | 22.43 | 21.62 | 20.56 |
| | 50RB (0) | 1905 (19150) | 22.16 | 21.51 | 20.40 |
| | | 1880 (18900) | 22.23 | 21.58 | 20.67 |
| | | 1855 (18650) | 22.63 | 21.55 | 20.61 |

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| 15MHz | 1RB-High (74) | 1902.5 (19125) | 21.94 | 22.29 | 21.59 |
| | | 1880 (18900) | 22.04 | 22.53 | 21.41 |
| | | 1857.5 (18675) | 22.29 | 22.48 | 21.65 |
| | 1RB-Middle (37) | 1902.5 (19125) | 22.08 | 22.32 | 21.28 |
| | | 1880 (18900) | 22.21 | 22.65 | 21.79 |
| | | 1857.5 (18675) | 22.66 | 22.67 | 21.74 |
| | 1RB-Low (0) | 1902.5 (19125) | 21.96 | 22.72 | 21.50 |
| | | 1880 (18900) | 22.47 | 22.73 | 21.58 |
| | | 1857.5 (18675) | 22.48 | 22.35 | 21.48 |
| | 36RB-High (38) | 1902.5 (19125) | 22.04 | 21.50 | 20.65 |
| | | 1880 (18900) | 22.15 | 21.51 | 20.51 |
| | | 1857.5 (18675) | 22.43 | 21.65 | 20.39 |
| | 36RB-Middle (19) | 1902.5 (19125) | 22.29 | 21.32 | 20.68 |
| | | 1880 (18900) | 22.15 | 21.60 | 20.69 |
| | | 1857.5 (18675) | 22.43 | 21.52 | 20.34 |
| | 36RB-Low (0) | 1902.5 (19125) | 22.23 | 21.34 | 20.48 |
| | | 1880 (18900) | 22.50 | 21.24 | 20.46 |
| | | 1857.5 (18675) | 22.43 | 21.47 | 20.29 |
| | 75RB (0) | 1902.5 (19125) | 21.91 | 21.45 | 20.58 |
| | | 1880 (18900) | 22.21 | 21.44 | 20.52 |
| | | 1857.5 (18675) | 22.34 | 21.56 | 20.50 |
| 20MHz | 1RB-High (99) | 1900 (19100) | 22.08 | 22.38 | 21.45 |
| | | 1880 (18900) | 22.17 | 22.46 | 21.56 |
| | | 1860 (18700) | 22.33 | 22.63 | 21.62 |
| | 1RB-Middle (50) | 1900 (19100) | 22.14 | 22.43 | 21.37 |
| | | 1880 (18900) | 22.16 | 22.61 | 21.64 |
| | | 1860 (18700) | 22.54 | 22.53 | 21.64 |
| | 1RB-Low (0) | 1900 (19100) | 22.11 | 22.57 | 21.54 |
| | | 1880 (18900) | 22.33 | 22.65 | 21.44 |
| | | 1860 (18700) | 22.56 | 22.37 | 21.62 |
| | 50RB-High (50) | 1900 (19100) | 22.04 | 21.48 | 20.57 |
| | | 1880 (18900) | 22.18 | 21.46 | 20.55 |
| | | 1860 (18700) | 22.52 | 21.57 | 20.43 |
| | 50RB-Middle (25) | 1900 (19100) | 22.17 | 21.45 | 20.64 |
| | | 1880 (18900) | 22.24 | 21.47 | 20.57 |
| | | 1860 (18700) | 22.53 | 21.55 | 20.36 |
| | 50RB-Low (0) | 1900 (19100) | 22.14 | 21.43 | 20.44 |
| | | 1880 (18900) | 22.37 | 21.38 | 20.49 |
| | | 1860 (18700) | 22.52 | 21.60 | 20.43 |
| | 100RB (0) | 1900 (19100) | 22.03 | 21.36 | 20.47 |
| | | 1880 (18900) | 22.31 | 21.58 | 20.65 |
| | | 1860 (18700) | 22.49 | 21.61 | 20.54 |

| LTE Band7-Power Level A1/C1/D1 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 5MHz | 1RB-High (24) | 2567.5 (21425) | 23.17 | 22.58 | 21.44 |
| | | 2535 (21100) | 23.36 | 22.51 | 21.63 |
| | | 2502.5 (20775) | 23.36 | 22.58 | 21.60 |
| | 1RB-Middle (12) | 2567.5 (21425) | 23.24 | 22.60 | 21.50 |
| | | 2535 (21100) | 23.38 | 22.49 | 21.57 |
| | | 2502.5 (20775) | 23.40 | 22.52 | 21.63 |
| | 1RB-Low (0) | 2567.5 (21425) | 23.18 | 22.64 | 21.49 |
| | | 2535 (21100) | 23.33 | 22.43 | 21.62 |
| | | 2502.5 (20775) | 23.28 | 22.43 | 21.56 |
| | 12RB-High (13) | 2567.5 (21425) | 22.29 | 21.28 | 20.25 |
| | | 2535 (21100) | 22.25 | 21.44 | 20.44 |
| | | 2502.5 (20775) | 22.30 | 21.50 | 20.47 |
| | 12RB-Middle (6) | 2567.5 (21425) | 22.34 | 21.29 | 20.34 |
| | | 2535 (21100) | 22.29 | 21.42 | 20.46 |
| | | 2502.5 (20775) | 22.32 | 21.49 | 20.48 |
| | 12RB-Low (0) | 2567.5 (21425) | 22.35 | 21.37 | 20.34 |
| | | 2535 (21100) | 22.28 | 21.46 | 20.49 |
| | | 2502.5 (20775) | 22.28 | 21.47 | 20.47 |
| | 25RB (0) | 2567.5 (21425) | 22.35 | 21.35 | 20.36 |
| | | 2535 (21100) | 22.29 | 21.47 | 20.47 |
| | | 2502.5 (20775) | 22.36 | 21.54 | 20.51 |
| 10MHz | 1RB-High (49) | 2565 (21400) | 23.20 | 22.53 | 21.43 |
| | | 2535 (21100) | 23.36 | 22.56 | 21.62 |
| | | 2505 (20800) | 23.31 | 22.51 | 21.59 |
| | 1RB-Middle (24) | 2565 (21400) | 23.28 | 22.47 | 21.55 |
| | | 2535 (21100) | 23.39 | 22.54 | 21.62 |
| | | 2505 (20800) | 23.38 | 22.51 | 21.69 |
| | 1RB-Low (0) | 2565 (21400) | 23.24 | 22.62 | 21.40 |
| | | 2535 (21100) | 23.38 | 22.58 | 21.58 |
| | | 2505 (20800) | 23.32 | 22.47 | 21.51 |
| | 25RB-High (25) | 2565 (21400) | 22.26 | 21.28 | 20.27 |
| | | 2535 (21100) | 22.32 | 21.51 | 20.47 |
| | | 2505 (20800) | 22.32 | 21.51 | 20.49 |
| | 25RB-Middle (12) | 2565 (21400) | 22.39 | 21.39 | 20.36 |
| | | 2535 (21100) | 22.24 | 21.47 | 20.47 |
| | | 2505 (20800) | 22.29 | 21.50 | 20.47 |
| | 25RB-Low (0) | 2565 (21400) | 22.42 | 21.44 | 20.36 |
| | | 2535 (21100) | 22.33 | 21.53 | 20.49 |
| | | 2505 (20800) | 22.29 | 21.51 | 20.46 |
| | 50RB (0) | 2565 (21400) | 22.34 | 21.34 | 20.37 |
| | | 2535 (21100) | 22.29 | 21.49 | 20.43 |
| | | 2505 (20800) | 22.29 | 21.49 | 20.44 |

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| 15MHz | 1RB-High (74) | 2562.5 (21375) | 23.06 | 22.44 | 21.35 |
| | | 2535 (21100) | 23.21 | 22.47 | 21.45 |
| | | 2507.5 (20825) | 23.22 | 22.39 | 21.44 |
| | 1RB-Middle (37) | 2562.5 (21375) | 23.19 | 22.47 | 21.49 |
| | | 2535 (21100) | 23.35 | 22.55 | 21.54 |
| | | 2507.5 (20825) | 23.32 | 22.53 | 21.52 |
| | 1RB-Low (0) | 2562.5 (21375) | 23.17 | 22.38 | 21.47 |
| | | 2535 (21100) | 23.23 | 22.43 | 21.46 |
| | | 2507.5 (20825) | 23.20 | 22.31 | 21.47 |
| | 36RB-High (38) | 2562.5 (21375) | 22.24 | 21.24 | 20.25 |
| | | 2535 (21100) | 22.24 | 21.38 | 20.41 |
| | | 2507.5 (20825) | 22.25 | 21.44 | 20.43 |
| | 36RB-Middle (19) | 2562.5 (21375) | 22.30 | 21.32 | 20.27 |
| | | 2535 (21100) | 22.22 | 21.47 | 20.49 |
| | | 2507.5 (20825) | 22.28 | 21.42 | 20.46 |
| | 36RB-Low (0) | 2562.5 (21375) | 22.19 | 21.35 | 20.36 |
| | | 2535 (21100) | 22.28 | 21.43 | 20.43 |
| | | 2507.5 (20825) | 22.18 | 21.39 | 20.36 |
| | 75RB (0) | 2562.5 (21375) | 22.28 | 21.29 | 20.28 |
| | | 2535 (21100) | 22.28 | 21.44 | 20.45 |
| | | 2507.5 (20825) | 22.30 | 21.47 | 20.44 |
| 20MHz | 1RB-High (99) | 2560 (21350) | 22.64 | 22.07 | 20.93 |
| | | 2535 (21100) | 22.46 | 21.95 | 20.75 |
| | | 2510 (20850) | 22.54 | 21.90 | 20.77 |
| | 1RB-Middle (50) | 2560 (21350) | 22.65 | 22.13 | 20.95 |
| | | 2535 (21100) | 22.57 | 21.91 | 20.81 |
| | | 2510 (20850) | 22.60 | 21.95 | 20.84 |
| | 1RB-Low (0) | 2560 (21350) | 22.63 | 21.93 | 20.88 |
| | | 2535 (21100) | 22.53 | 21.89 | 20.72 |
| | | 2510 (20850) | 22.59 | 22.01 | 20.88 |
| | 50RB-High (50) | 2560 (21350) | 21.79 | 20.79 | 19.77 |
| | | 2535 (21100) | 21.70 | 20.69 | 19.73 |
| | | 2510 (20850) | 21.78 | 20.76 | 19.67 |
| | 50RB-Middle (25) | 2560 (21350) | 21.90 | 20.86 | 19.83 |
| | | 2535 (21100) | 21.77 | 20.74 | 19.73 |
| | | 2510 (20850) | 21.75 | 20.75 | 19.75 |
| | 50RB-Low (0) | 2560 (21350) | 21.91 | 20.88 | 19.86 |
| | | 2535 (21100) | 21.77 | 20.75 | 19.66 |
| | | 2510 (20850) | 21.75 | 20.75 | 19.72 |
| | 100RB (0) | 2560 (21350) | 21.83 | 20.77 | 19.75 |
| | | 2535 (21100) | 21.74 | 20.70 | 19.71 |
| | | 2510 (20850) | 21.74 | 20.72 | 19.70 |

| LTE Band7-Power Level B1/F1 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 5MHz | 1RB-High (24) | 2567.5 (21425) | 16.11 | 15.37 | 14.31 |
| | | 2535 (21100) | 16.30 | 15.60 | 14.48 |
| | | 2502.5 (20775) | 16.31 | 15.55 | 14.45 |
| | 1RB-Middle (12) | 2567.5 (21425) | 16.15 | 15.46 | 14.35 |
| | | 2535 (21100) | 16.36 | 15.67 | 14.55 |
| | | 2502.5 (20775) | 16.31 | 15.60 | 14.59 |
| | 1RB-Low (0) | 2567.5 (21425) | 16.14 | 15.32 | 14.33 |
| | | 2535 (21100) | 16.32 | 15.64 | 14.51 |
| | | 2502.5 (20775) | 16.24 | 15.41 | 14.36 |
| | 12RB-High (13) | 2567.5 (21425) | 15.13 | 14.14 | 13.13 |
| | | 2535 (21100) | 15.30 | 14.24 | 13.30 |
| | | 2502.5 (20775) | 15.34 | 14.28 | 13.36 |
| | 12RB-Middle (6) | 2567.5 (21425) | 15.16 | 14.18 | 13.20 |
| | | 2535 (21100) | 15.34 | 14.30 | 13.32 |
| | | 2502.5 (20775) | 15.34 | 14.30 | 13.30 |
| | 12RB-Low (0) | 2567.5 (21425) | 15.15 | 14.15 | 13.21 |
| | | 2535 (21100) | 15.33 | 14.29 | 13.33 |
| | | 2502.5 (20775) | 15.29 | 14.26 | 13.26 |
| | 25RB (0) | 2567.5 (21425) | 15.15 | 14.19 | 13.18 |
| | | 2535 (21100) | 15.31 | 14.33 | 13.30 |
| | | 2502.5 (20775) | 15.28 | 14.33 | 13.33 |
| 10MHz | 1RB-High (49) | 2565 (21400) | 16.07 | 15.32 | 14.33 |
| | | 2535 (21100) | 16.26 | 15.56 | 14.33 |
| | | 2505 (20800) | 16.29 | 15.63 | 14.43 |
| | 1RB-Middle (24) | 2565 (21400) | 16.24 | 15.47 | 14.40 |
| | | 2535 (21100) | 16.37 | 15.69 | 14.53 |
| | | 2505 (20800) | 16.34 | 15.64 | 14.42 |
| | 1RB-Low (0) | 2565 (21400) | 16.26 | 15.41 | 14.44 |
| | | 2535 (21100) | 16.36 | 15.70 | 14.43 |
| | | 2505 (20800) | 16.21 | 15.56 | 14.44 |
| | 25RB-High (25) | 2565 (21400) | 15.14 | 14.15 | 13.11 |
| | | 2535 (21100) | 15.31 | 14.32 | 13.25 |
| | | 2505 (20800) | 15.32 | 14.37 | 13.37 |
| | 25RB-Middle (12) | 2565 (21400) | 15.21 | 14.20 | 13.18 |
| | | 2535 (21100) | 15.35 | 14.35 | 13.35 |
| | | 2505 (20800) | 15.33 | 14.28 | 13.29 |
| | 25RB-Low (0) | 2565 (21400) | 15.25 | 14.23 | 13.27 |
| | | 2535 (21100) | 15.36 | 14.34 | 13.33 |
| | | 2505 (20800) | 15.31 | 14.28 | 13.30 |
| | 50RB (0) | 2565 (21400) | 15.17 | 14.19 | 13.18 |
| | | 2535 (21100) | 15.37 | 14.30 | 13.31 |
| | | 2505 (20800) | 15.33 | 14.26 | 13.27 |

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|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 2562.5 (21375) | 16.22 | 15.39 | 14.29 |
| | | 2535 (21100) | 16.21 | 15.61 | 14.40 |
| | | 2507.5 (20825) | 16.19 | 15.54 | 14.40 |
| | 1RB-Middle (37) | 2562.5 (21375) | 16.37 | 15.44 | 14.41 |
| | | 2535 (21100) | 16.30 | 15.67 | 14.50 |
| | | 2507.5 (20825) | 16.31 | 15.65 | 14.37 |
| | 1RB-Low (0) | 2562.5 (21375) | 16.30 | 15.53 | 14.36 |
| | | 2535 (21100) | 16.25 | 15.56 | 14.48 |
| | | 2507.5 (20825) | 16.21 | 15.43 | 14.30 |
| | 36RB-High (38) | 2562.5 (21375) | 15.31 | 14.10 | 13.13 |
| | | 2535 (21100) | 15.32 | 14.27 | 13.34 |
| | | 2507.5 (20825) | 15.30 | 14.29 | 13.27 |
| | 36RB-Middle (19) | 2562.5 (21375) | 15.34 | 14.23 | 13.24 |
| | | 2535 (21100) | 15.27 | 14.32 | 13.30 |
| | | 2507.5 (20825) | 15.28 | 14.28 | 13.31 |
| | 36RB-Low (0) | 2562.5 (21375) | 15.38 | 14.26 | 13.22 |
| | | 2535 (21100) | 15.38 | 14.37 | 13.31 |
| | | 2507.5 (20825) | 15.27 | 14.22 | 13.22 |
| | 75RB (0) | 2562.5 (21375) | 15.30 | 14.20 | 13.14 |
| | | 2535 (21100) | 15.34 | 14.32 | 13.29 |
| | | 2507.5 (20825) | 15.30 | 14.28 | 13.26 |
| 20MHz | 1RB-High (99) | 2560 (21350) | 15.91 | 15.23 | 14.14 |
| | | 2535 (21100) | 16.06 | 15.45 | 14.17 |
| | | 2510 (20850) | 16.12 | 15.43 | 14.29 |
| | 1RB-Middle (50) | 2560 (21350) | 16.08 | 15.39 | 14.27 |
| | | 2535 (21100) | 16.21 | 15.54 | 14.30 |
| | | 2510 (20850) | 16.14 | 15.48 | 14.27 |
| | 1RB-Low (0) | 2560 (21350) | 15.99 | 15.25 | 14.17 |
| | | 2535 (21100) | 16.10 | 15.30 | 14.29 |
| | | 2510 (20850) | 15.96 | 15.33 | 14.22 |
| | 50RB-High (50) | 2560 (21350) | 15.01 | 13.97 | 12.97 |
| | | 2535 (21100) | 15.12 | 14.16 | 13.10 |
| | | 2510 (20850) | 15.18 | 14.12 | 13.14 |
| | 50RB-Middle (25) | 2560 (21350) | 15.13 | 14.14 | 13.13 |
| | | 2535 (21100) | 15.19 | 14.17 | 13.17 |
| | | 2510 (20850) | 15.13 | 14.16 | 13.14 |
| | 50RB-Low (0) | 2560 (21350) | 15.10 | 14.09 | 13.10 |
| | | 2535 (21100) | 15.20 | 14.23 | 13.23 |
| | | 2510 (20850) | 15.17 | 14.14 | 13.10 |
| | 100RB (0) | 2560 (21350) | 15.06 | 14.02 | 13.07 |
| | | 2535 (21100) | 15.22 | 14.17 | 13.19 |
| | | 2510 (20850) | 15.13 | 14.06 | 13.08 |

| LTE Band7-Power Level E1 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 5MHz | 1RB-High (24) | 2567.5 (21425) | 18.29 | 17.47 | 16.49 |
| | | 2535 (21100) | 18.42 | 17.54 | 16.66 |
| | | 2502.5 (20775) | 18.20 | 17.39 | 16.30 |
| | 1RB-Middle (12) | 2567.5 (21425) | 18.33 | 17.56 | 16.50 |
| | | 2535 (21100) | 18.37 | 17.74 | 16.58 |
| | | 2502.5 (20775) | 18.23 | 17.45 | 16.27 |
| | 1RB-Low (0) | 2567.5 (21425) | 18.32 | 17.62 | 16.49 |
| | | 2535 (21100) | 18.36 | 17.70 | 16.57 |
| | | 2502.5 (20775) | 18.20 | 17.50 | 16.34 |
| | 12RB-High (13) | 2567.5 (21425) | 17.27 | 16.32 | 15.33 |
| | | 2535 (21100) | 17.33 | 16.30 | 15.42 |
| | | 2502.5 (20775) | 17.16 | 16.16 | 15.28 |
| | 12RB-Middle (6) | 2567.5 (21425) | 17.23 | 16.36 | 15.33 |
| | | 2535 (21100) | 17.37 | 16.31 | 15.39 |
| | | 2502.5 (20775) | 17.21 | 16.20 | 15.30 |
| | 12RB-Low (0) | 2567.5 (21425) | 17.25 | 16.35 | 15.41 |
| | | 2535 (21100) | 17.36 | 16.30 | 15.42 |
| | | 2502.5 (20775) | 17.22 | 16.19 | 15.23 |
| | 25RB (0) | 2567.5 (21425) | 17.32 | 16.37 | 15.34 |
| | | 2535 (21100) | 17.39 | 16.36 | 15.42 |
| | | 2502.5 (20775) | 17.23 | 16.22 | 15.26 |
| 10MHz | 1RB-High (49) | 2565 (21400) | 18.24 | 17.55 | 16.45 |
| | | 2535 (21100) | 18.42 | 17.70 | 16.59 |
| | | 2505 (20800) | 18.23 | 17.58 | 16.41 |
| | 1RB-Middle (24) | 2565 (21400) | 18.33 | 17.76 | 16.59 |
| | | 2535 (21100) | 18.43 | 17.74 | 16.53 |
| | | 2505 (20800) | 18.25 | 17.55 | 16.40 |
| | 1RB-Low (0) | 2565 (21400) | 18.36 | 17.67 | 16.55 |
| | | 2535 (21100) | 18.35 | 17.62 | 16.55 |
| | | 2505 (20800) | 18.22 | 17.55 | 16.27 |
| | 25RB-High (25) | 2565 (21400) | 17.27 | 16.31 | 15.36 |
| | | 2535 (21100) | 17.43 | 16.43 | 15.48 |
| | | 2505 (20800) | 17.24 | 16.26 | 15.32 |
| | 25RB-Middle (12) | 2565 (21400) | 17.35 | 16.41 | 15.39 |
| | | 2535 (21100) | 17.38 | 16.38 | 15.46 |
| | | 2505 (20800) | 17.22 | 16.20 | 15.26 |
| | 25RB-Low (0) | 2565 (21400) | 17.40 | 16.48 | 15.43 |
| | | 2535 (21100) | 17.40 | 16.41 | 15.51 |
| | | 2505 (20800) | 17.19 | 16.18 | 15.24 |
| | 50RB (0) | 2565 (21400) | 17.35 | 16.45 | 15.41 |
| | | 2535 (21100) | 17.42 | 16.41 | 15.51 |
| | | 2505 (20800) | 17.26 | 16.22 | 15.26 |

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|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 2562.5 (21375) | 18.24 | 17.44 | 16.48 |
| | | 2535 (21100) | 18.33 | 17.53 | 16.55 |
| | | 2507.5 (20825) | 18.15 | 17.48 | 16.38 |
| | 1RB-Middle (37) | 2562.5 (21375) | 18.37 | 17.60 | 16.49 |
| | | 2535 (21100) | 18.38 | 17.72 | 16.56 |
| | | 2507.5 (20825) | 18.18 | 17.50 | 16.29 |
| | 1RB-Low (0) | 2562.5 (21375) | 18.25 | 17.53 | 16.54 |
| | | 2535 (21100) | 18.27 | 17.63 | 16.45 |
| | | 2507.5 (20825) | 18.12 | 17.33 | 16.31 |
| | 36RB-High (38) | 2562.5 (21375) | 17.34 | 16.31 | 15.28 |
| | | 2535 (21100) | 17.38 | 16.30 | 15.45 |
| | | 2507.5 (20825) | 17.19 | 16.26 | 15.30 |
| | 36RB-Middle (19) | 2562.5 (21375) | 17.33 | 16.33 | 15.43 |
| | | 2535 (21100) | 17.38 | 16.35 | 15.45 |
| | | 2507.5 (20825) | 17.19 | 16.18 | 15.27 |
| | 36RB-Low (0) | 2562.5 (21375) | 17.33 | 16.45 | 15.41 |
| | | 2535 (21100) | 17.34 | 16.32 | 15.42 |
| | | 2507.5 (20825) | 17.22 | 16.13 | 15.27 |
| | 75RB (0) | 2562.5 (21375) | 17.36 | 16.42 | 15.35 |
| | | 2535 (21100) | 17.38 | 16.34 | 15.36 |
| | | 2507.5 (20825) | 17.21 | 16.20 | 15.24 |
| 20MHz | 1RB-High (99) | 2560 (21350) | 18.03 | 17.35 | 16.18 |
| | | 2535 (21100) | 18.12 | 17.29 | 16.36 |
| | | 2510 (20850) | 18.13 | 17.36 | 16.25 |
| | 1RB-Middle (50) | 2560 (21350) | 18.15 | 17.56 | 16.38 |
| | | 2535 (21100) | 18.25 | 17.42 | 16.35 |
| | | 2510 (20850) | 18.06 | 17.32 | 16.20 |
| | 1RB-Low (0) | 2560 (21350) | 18.14 | 17.41 | 16.38 |
| | | 2535 (21100) | 18.14 | 17.37 | 16.31 |
| | | 2510 (20850) | 17.96 | 17.19 | 16.11 |
| | 50RB-High (50) | 2560 (21350) | 17.11 | 16.13 | 15.17 |
| | | 2535 (21100) | 17.25 | 16.18 | 15.27 |
| | | 2510 (20850) | 17.12 | 16.09 | 15.20 |
| | 50RB-Middle (25) | 2560 (21350) | 17.23 | 16.24 | 15.24 |
| | | 2535 (21100) | 17.24 | 16.24 | 15.27 |
| | | 2510 (20850) | 17.12 | 16.09 | 15.17 |
| | 50RB-Low (0) | 2560 (21350) | 17.24 | 16.33 | 15.30 |
| | | 2535 (21100) | 17.20 | 16.21 | 15.32 |
| | | 2510 (20850) | 17.04 | 16.01 | 15.12 |
| | 100RB (0) | 2560 (21350) | 17.17 | 16.21 | 15.21 |
| | | 2535 (21100) | 17.24 | 16.18 | 15.22 |
| | | 2510 (20850) | 17.06 | 16.04 | 15.07 |

| LTE Band12-Power Level A1/B1/C1/D1/E1/F1 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 1.4MHz | 1RB-High (5) | 715.3 (23173) | 23.24 | 22.42 | 21.33 |
| | | 707.5 (23095) | 23.24 | 22.42 | 21.22 |
| | | 699.7 (23017) | 23.20 | 22.45 | 21.32 |
| | 1RB-Middle (3) | 715.3 (23173) | 23.27 | 22.41 | 21.34 |
| | | 707.5 (23095) | 23.22 | 22.39 | 21.44 |
| | | 699.7 (23017) | 23.24 | 22.44 | 21.35 |
| | 1RB-Low (0) | 715.3 (23173) | 23.21 | 22.43 | 21.31 |
| | | 707.5 (23095) | 23.23 | 22.42 | 21.40 |
| | | 699.7 (23017) | 23.20 | 22.37 | 21.25 |
| | 3RB-High (3) | 715.3 (23173) | 23.28 | 22.25 | 21.24 |
| | | 707.5 (23095) | 23.23 | 22.13 | 21.22 |
| | | 699.7 (23017) | 23.21 | 22.20 | 21.20 |
| | 3RB-Middle (1) | 715.3 (23173) | 23.24 | 22.26 | 21.30 |
| | | 707.5 (23095) | 23.25 | 22.27 | 21.27 |
| | | 699.7 (23017) | 23.19 | 22.17 | 21.22 |
| | 3RB-Low (0) | 715.3 (23173) | 23.26 | 22.17 | 21.23 |
| | | 707.5 (23095) | 23.26 | 22.28 | 21.28 |
| | | 699.7 (23017) | 23.20 | 22.24 | 21.21 |
| | 6RB (0) | 715.3 (23173) | 22.25 | 21.25 | 20.15 |
| | | 707.5 (23095) | 22.23 | 21.25 | 20.15 |
| | | 699.7 (23017) | 22.20 | 21.23 | 20.15 |
| 3MHz | 1RB-High (14) | 714.5 (23165) | 22.17 | 22.44 | 21.36 |
| | | 707.5 (23095) | 23.20 | 22.41 | 21.34 |
| | | 700.5 (23025) | 23.21 | 22.44 | 21.31 |
| | 1RB-Middle (7) | 714.5 (23165) | 22.16 | 22.36 | 21.33 |
| | | 707.5 (23095) | 23.28 | 22.34 | 21.46 |
| | | 700.5 (23025) | 23.25 | 22.47 | 21.34 |
| | 1RB-Low (0) | 714.5 (23165) | 22.15 | 22.47 | 21.34 |
| | | 707.5 (23095) | 23.32 | 22.39 | 21.31 |
| | | 700.5 (23025) | 23.23 | 22.42 | 21.31 |
| | 8RB-High (7) | 714.5 (23165) | 22.18 | 21.29 | 20.22 |
| | | 707.5 (23095) | 22.13 | 21.25 | 20.13 |
| | | 700.5 (23025) | 22.18 | 21.21 | 20.19 |
| | 8RB-Middle (4) | 714.5 (23165) | 22.21 | 21.30 | 20.19 |
| | | 707.5 (23095) | 22.20 | 21.23 | 20.22 |
| | | 700.5 (23025) | 22.20 | 21.25 | 20.23 |
| | 8RB-Low (0) | 714.5 (23165) | 22.19 | 21.27 | 20.20 |
| | | 707.5 (23095) | 22.20 | 21.23 | 20.22 |
| | | 700.5 (23025) | 22.16 | 21.25 | 20.17 |
| | 15RB (0) | 714.5 (23165) | 22.18 | 21.23 | 20.12 |
| | | 707.5 (23095) | 22.18 | 21.18 | 20.20 |
| | | 700.5 (23025) | 22.18 | 21.19 | 20.14 |

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| 5MHz | 1RB-High (24) | 713.5 (23155) | 23.32 | 22.45 | 21.35 |
| | | 707.5 (23095) | 23.28 | 22.43 | 21.27 |
| | | 701.5 (23035) | 23.30 | 22.47 | 21.39 |
| | 1RB-Middle (12) | 713.5 (23155) | 23.31 | 22.43 | 21.33 |
| | | 707.5 (23095) | 23.33 | 22.53 | 21.43 |
| | | 701.5 (23035) | 23.32 | 22.44 | 21.38 |
| | 1RB-Low (0) | 713.5 (23155) | 23.29 | 22.52 | 21.39 |
| | | 707.5 (23095) | 23.31 | 22.43 | 21.41 |
| | | 701.5 (23035) | 23.28 | 22.50 | 21.32 |
| | 12RB-High (13) | 713.5 (23155) | 22.21 | 21.17 | 20.16 |
| | | 707.5 (23095) | 22.17 | 21.17 | 20.15 |
| | | 701.5 (23035) | 22.21 | 21.20 | 20.19 |
| | 12RB-Middle (6) | 713.5 (23155) | 22.22 | 21.21 | 20.23 |
| | | 707.5 (23095) | 22.22 | 21.21 | 20.20 |
| | | 701.5 (23035) | 22.22 | 21.22 | 20.21 |
| | 12RB-Low (0) | 713.5 (23155) | 22.26 | 21.23 | 20.27 |
| | | 707.5 (23095) | 22.28 | 21.21 | 20.25 |
| | | 701.5 (23035) | 22.22 | 21.16 | 20.21 |
| | 25RB (0) | 713.5 (23155) | 22.25 | 21.26 | 20.16 |
| | | 707.5 (23095) | 22.25 | 21.24 | 20.18 |
| | | 701.5 (23035) | 22.22 | 21.21 | 20.19 |
| 10MHz | 1RB-High (49) | 711 (23130) | 22.69 | 21.88 | 20.63 |
| | | 707.5 (23095) | 22.67 | 21.79 | 20.67 |
| | | 704 (23060) | 22.64 | 21.83 | 20.63 |
| | 1RB-Middle (24) | 711 (23130) | 22.67 | 21.85 | 20.79 |
| | | 707.5 (23095) | 22.69 | 21.78 | 20.75 |
| | | 704 (23060) | 22.67 | 21.87 | 20.75 |
| | 1RB-Low (0) | 711 (23130) | 22.70 | 21.98 | 20.83 |
| | | 707.5 (23095) | 22.65 | 21.91 | 20.74 |
| | | 704 (23060) | 22.76 | 21.95 | 20.75 |
| | 25RB-High (25) | 711 (23130) | 21.57 | 20.56 | 19.53 |
| | | 707.5 (23095) | 21.62 | 20.63 | 19.55 |
| | | 704 (23060) | 21.65 | 20.62 | 19.58 |
| | 25RB-Middle (12) | 711 (23130) | 21.64 | 20.59 | 19.60 |
| | | 707.5 (23095) | 21.58 | 20.64 | 19.58 |
| | | 704 (23060) | 21.63 | 20.61 | 19.73 |
| | 25RB-Low (0) | 711 (23130) | 21.63 | 20.62 | 19.56 |
| | | 707.5 (23095) | 21.57 | 20.62 | 19.75 |
| | | 704 (23060) | 21.55 | 20.59 | 19.71 |
| | 50RB (0) | 711 (23130) | 21.57 | 20.57 | 19.55 |
| | | 707.5 (23095) | 21.62 | 20.62 | 19.56 |
| | | 704 (23060) | 21.66 | 20.57 | 19.76 |

| LTE Band13-Power Level A1/B1/C1/D1/E1/F1 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 5MHz | 1RB-High (24) | 784.5 (23255) | 22.56 | 21.84 | 20.66 |
| | | 782 (23230) | 22.64 | 21.92 | 20.71 |
| | | 779.5 (23205) | 22.63 | 21.80 | 20.75 |
| | 1RB-Middle (12) | 784.5 (23255) | 22.61 | 21.79 | 20.75 |
| | | 782 (23230) | 22.69 | 21.85 | 20.81 |
| | | 779.5 (23205) | 22.60 | 21.87 | 20.70 |
| | 1RB-Low (0) | 784.5 (23255) | 22.67 | 21.79 | 20.66 |
| | | 782 (23230) | 22.69 | 21.73 | 20.75 |
| | | 779.5 (23205) | 22.59 | 21.72 | 20.73 |
| | 12RB-High (13) | 784.5 (23255) | 21.56 | 20.49 | 19.49 |
| | | 782 (23230) | 21.49 | 20.49 | 19.51 |
| | | 779.5 (23205) | 21.53 | 20.51 | 19.56 |
| | 12RB-Middle (6) | 784.5 (23255) | 21.52 | 20.54 | 19.52 |
| | | 782 (23230) | 21.55 | 20.53 | 19.54 |
| | | 779.5 (23205) | 21.58 | 20.54 | 19.52 |
| | 12RB-Low (0) | 784.5 (23255) | 21.60 | 20.51 | 19.54 |
| | | 782 (23230) | 21.60 | 20.54 | 19.51 |
| | | 779.5 (23205) | 21.46 | 20.44 | 19.46 |
| | 25RB (0) | 784.5 (23255) | 21.59 | 20.60 | 19.53 |
| | | 782 (23230) | 21.58 | 20.57 | 19.51 |
| | | 779.5 (23205) | 21.51 | 20.52 | 19.51 |
| 10MHz | 1RB-High (49) | 782 (23230) | 22.53 | 21.82 | 20.60 |
| | 1RB-Middle (24) | 782 (23230) | 22.72 | 21.85 | 20.78 |
| | 1RB-Low (0) | 782 (23230) | 22.63 | 21.85 | 20.72 |
| | 25RB-High (25) | 782 (23230) | 21.51 | 20.52 | 19.53 |
| | 25RB-Middle (12) | 782 (23230) | 21.57 | 20.58 | 19.53 |
| | 25RB-Low (0) | 782 (23230) | 21.49 | 20.52 | 19.46 |
| | 50RB (0) | 782 (23230) | 21.55 | 20.46 | 19.48 |

| LTE Band25-Power Level A1/C1/D1 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 1.4MHz | 1RB-High (5) | 1914.3 (26683) | 23.52 | 22.74 | 21.84 |
| | | 1882.5 (26365) | 23.54 | 22.80 | 21.83 |
| | | 1850.7 (26047) | 23.69 | 23.00 | 21.94 |
| | 1RB-Middle (3) | 1914.3 (26683) | 23.46 | 22.93 | 21.81 |
| | | 1882.5 (26365) | 23.60 | 22.77 | 21.80 |
| | | 1850.7 (26047) | 23.71 | 22.82 | 21.99 |
| | 1RB-Low (0) | 1914.3 (26683) | 23.50 | 22.85 | 21.76 |
| | | 1882.5 (26365) | 23.55 | 22.72 | 21.87 |
| | | 1850.7 (26047) | 23.71 | 22.76 | 21.94 |
| | 3RB-High (3) | 1914.3 (26683) | 23.50 | 22.68 | 21.71 |
| | | 1882.5 (26365) | 23.52 | 22.50 | 21.75 |
| | | 1850.7 (26047) | 23.71 | 22.86 | 21.95 |
| | 3RB-Middle (1) | 1914.3 (26683) | 23.54 | 22.73 | 21.68 |
| | | 1882.5 (26365) | 23.58 | 22.55 | 21.81 |
| | | 1850.7 (26047) | 23.70 | 22.87 | 21.95 |
| | 3RB-Low (0) | 1914.3 (26683) | 23.55 | 22.73 | 21.72 |
| | | 1882.5 (26365) | 23.59 | 22.59 | 21.80 |
| | | 1850.7 (26047) | 23.75 | 22.83 | 21.94 |
| | 6RB (0) | 1914.3 (26683) | 22.68 | 21.70 | 20.61 |
| | | 1882.5 (26365) | 22.54 | 21.78 | 20.63 |
| | | 1850.7 (26047) | 22.87 | 21.94 | 20.82 |
| 3MHz | 1RB-High (14) | 1913.5 (26675) | 23.50 | 22.75 | 21.77 |
| | | 1882.5 (26365) | 23.57 | 22.68 | 21.91 |
| | | 1851.5 (26055) | 23.68 | 22.84 | 21.92 |
| | 1RB-Middle (7) | 1913.5 (26675) | 23.59 | 22.95 | 21.77 |
| | | 1882.5 (26365) | 23.59 | 22.84 | 21.85 |
| | | 1851.5 (26055) | 23.74 | 22.69 | 21.93 |
| | 1RB-Low (0) | 1913.5 (26675) | 23.53 | 22.97 | 21.84 |
| | | 1882.5 (26365) | 23.54 | 22.76 | 21.88 |
| | | 1851.5 (26055) | 23.69 | 22.94 | 21.92 |
| | 8RB-High (7) | 1913.5 (26675) | 22.47 | 21.71 | 20.65 |
| | | 1882.5 (26365) | 22.48 | 21.68 | 20.63 |
| | | 1851.5 (26055) | 22.81 | 21.83 | 20.77 |
| | 8RB-Middle (4) | 1913.5 (26675) | 22.50 | 21.69 | 20.58 |
| | | 1882.5 (26365) | 22.48 | 21.74 | 20.66 |
| | | 1851.5 (26055) | 22.80 | 21.85 | 20.82 |
| | 8RB-Low (0) | 1913.5 (26675) | 22.53 | 21.73 | 20.68 |
| | | 1882.5 (26365) | 22.52 | 21.73 | 20.75 |
| | | 1851.5 (26055) | 22.86 | 21.90 | 20.85 |
| | 15RB (0) | 1913.5 (26675) | 22.47 | 21.71 | 20.68 |
| | | 1882.5 (26365) | 22.51 | 21.67 | 20.68 |
| | | 1851.5 (26055) | 22.79 | 21.80 | 20.74 |

| | | | | | |
|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 1912.5 (26665) | 23.53 | 22.85 | 21.82 |
| | | 1882.5 (26365) | 23.56 | 22.84 | 21.86 |
| | | 1852.5 (26065) | 23.71 | 22.95 | 21.95 |
| | 1RB-Middle (12) | 1912.5 (26665) | 23.60 | 22.84 | 21.77 |
| | | 1882.5 (26365) | 23.62 | 22.84 | 21.82 |
| | | 1852.5 (26065) | 23.71 | 22.81 | 21.93 |
| | 1RB-Low (0) | 1912.5 (26665) | 23.59 | 22.86 | 21.74 |
| | | 1882.5 (26365) | 23.59 | 22.77 | 21.89 |
| | | 1852.5 (26065) | 23.75 | 22.76 | 21.95 |
| | 12RB-High (13) | 1912.5 (26665) | 22.49 | 21.58 | 20.57 |
| | | 1882.5 (26365) | 22.52 | 21.72 | 20.71 |
| | | 1852.5 (26065) | 22.77 | 21.76 | 20.73 |
| | 12RB-Middle (6) | 1912.5 (26665) | 22.52 | 21.65 | 20.72 |
| | | 1882.5 (26365) | 22.54 | 21.69 | 20.67 |
| | | 1852.5 (26065) | 22.80 | 21.79 | 20.81 |
| | 12RB-Low (0) | 1912.5 (26665) | 22.56 | 21.73 | 20.75 |
| | | 1882.5 (26365) | 22.58 | 21.70 | 20.77 |
| | | 1852.5 (26065) | 22.81 | 21.85 | 20.83 |
| | 25RB (0) | 1912.5 (26665) | 22.54 | 21.68 | 20.65 |
| | | 1882.5 (26365) | 22.54 | 21.77 | 20.72 |
| | | 1852.5 (26065) | 22.80 | 21.84 | 20.79 |
| 10MHz | 1RB-High (49) | 1910 (26640) | 23.54 | 22.89 | 21.81 |
| | | 1882.5 (26365) | 23.57 | 22.74 | 21.78 |
| | | 1855 (26090) | 23.69 | 22.81 | 21.92 |
| | 1RB-Middle (24) | 1910 (26640) | 23.64 | 22.94 | 21.89 |
| | | 1882.5 (26365) | 23.61 | 22.88 | 21.93 |
| | | 1855 (26090) | 23.74 | 22.75 | 21.96 |
| | 1RB-Low (0) | 1910 (26640) | 23.61 | 22.91 | 21.77 |
| | | 1882.5 (26365) | 23.65 | 22.86 | 21.89 |
| | | 1855 (26090) | 23.75 | 22.87 | 21.99 |
| | 25RB-High (25) | 1910 (26640) | 22.54 | 21.67 | 20.63 |
| | | 1882.5 (26365) | 22.53 | 21.77 | 20.76 |
| | | 1855 (26090) | 22.83 | 21.80 | 20.79 |
| | 25RB-Middle (12) | 1910 (26640) | 22.53 | 21.70 | 20.65 |
| | | 1882.5 (26365) | 22.57 | 21.74 | 20.73 |
| | | 1855 (26090) | 22.85 | 21.85 | 20.84 |
| | 25RB-Low (0) | 1910 (26640) | 22.52 | 21.63 | 20.59 |
| | | 1882.5 (26365) | 22.55 | 21.73 | 20.73 |
| | | 1855 (26090) | 22.85 | 21.88 | 20.84 |
| | 50RB (0) | 1910 (26640) | 22.58 | 21.66 | 20.63 |
| | | 1882.5 (26365) | 22.59 | 21.72 | 20.73 |
| | | 1855 (26090) | 22.82 | 21.84 | 20.81 |

| | | | | | |
|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 1907.5 (26615) | 23.55 | 22.91 | 21.80 |
| | | 1882.5 (26365) | 23.57 | 22.75 | 21.81 |
| | | 1857.5 (26115) | 23.63 | 22.88 | 21.87 |
| | 1RB-Middle (37) | 1907.5 (26615) | 23.55 | 22.83 | 21.81 |
| | | 1882.5 (26365) | 23.63 | 22.78 | 21.93 |
| | | 1857.5 (26115) | 23.77 | 23.00 | 21.91 |
| | 1RB-Low (0) | 1907.5 (26615) | 23.67 | 22.85 | 21.96 |
| | | 1882.5 (26365) | 23.63 | 22.89 | 21.96 |
| | | 1857.5 (26115) | 23.73 | 22.86 | 21.93 |
| | 36RB-High (38) | 1907.5 (26615) | 22.71 | 21.68 | 20.66 |
| | | 1882.5 (26365) | 22.52 | 21.68 | 20.68 |
| | | 1857.5 (26115) | 22.76 | 21.84 | 20.75 |
| | 36RB-Middle (19) | 1907.5 (26615) | 22.70 | 21.72 | 20.72 |
| | | 1882.5 (26365) | 22.59 | 21.76 | 20.71 |
| | | 1857.5 (26115) | 22.86 | 21.78 | 20.81 |
| | 36RB-Low (0) | 1907.5 (26615) | 22.74 | 21.66 | 20.69 |
| | | 1882.5 (26365) | 22.59 | 21.70 | 20.71 |
| | | 1857.5 (26115) | 22.88 | 21.87 | 20.86 |
| | 75RB (0) | 1907.5 (26615) | 22.71 | 21.70 | 20.69 |
| | | 1882.5 (26365) | 22.56 | 21.67 | 20.65 |
| | | 1857.5 (26115) | 22.87 | 21.82 | 20.81 |
| 20MHz | 1RB-High (99) | 1905 (26590) | 22.61 | 22.01 | 20.93 |
| | | 1882.5 (26365) | 22.61 | 22.00 | 20.85 |
| | | 1860 (26140) | 22.61 | 21.98 | 20.77 |
| | 1RB-Middle (50) | 1905 (26590) | 22.74 | 22.11 | 21.00 |
| | | 1882.5 (26365) | 22.66 | 22.12 | 20.92 |
| | | 1860 (26140) | 22.70 | 22.10 | 20.97 |
| | 1RB-Low (0) | 1905 (26590) | 22.68 | 22.03 | 20.95 |
| | | 1882.5 (26365) | 22.57 | 22.00 | 20.81 |
| | | 1860 (26140) | 22.62 | 21.98 | 20.82 |
| | 50RB-High (50) | 1905 (26590) | 21.85 | 20.80 | 19.79 |
| | | 1882.5 (26365) | 21.75 | 20.78 | 19.70 |
| | | 1860 (26140) | 21.79 | 20.78 | 19.72 |
| | 50RB-Middle (25) | 1905 (26590) | 21.94 | 20.91 | 19.86 |
| | | 1882.5 (26365) | 21.88 | 20.84 | 19.82 |
| | | 1860 (26140) | 21.78 | 20.78 | 19.80 |
| | 50RB-Low (0) | 1905 (26590) | 21.93 | 20.90 | 19.84 |
| | | 1882.5 (26365) | 21.74 | 20.76 | 19.71 |
| | | 1860 (26140) | 21.84 | 20.84 | 19.77 |
| | 100RB (0) | 1905 (26590) | 21.85 | 20.85 | 19.81 |
| | | 1882.5 (26365) | 21.77 | 20.74 | 19.69 |
| | | 1860 (26140) | 21.81 | 20.77 | 19.66 |

| LTE Band25-Power Level B1/F1 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 1.4MHz | 1RB-High (5) | 1914.3 (26683) | 20.43 | 19.76 | 18.56 |
| | | 1882.5 (26365) | 20.51 | 19.84 | 18.62 |
| | | 1850.7 (26047) | 20.68 | 19.98 | 18.77 |
| | 1RB-Middle (3) | 1914.3 (26683) | 20.46 | 19.80 | 18.52 |
| | | 1882.5 (26365) | 20.56 | 19.85 | 18.66 |
| | | 1850.7 (26047) | 20.71 | 20.02 | 18.83 |
| | 1RB-Low (0) | 1914.3 (26683) | 20.42 | 19.77 | 18.49 |
| | | 1882.5 (26365) | 20.55 | 19.85 | 18.74 |
| | | 1850.7 (26047) | 20.70 | 19.96 | 18.78 |
| | 3RB-High (3) | 1914.3 (26683) | 20.46 | 19.46 | 18.55 |
| | | 1882.5 (26365) | 20.57 | 19.57 | 18.60 |
| | | 1850.7 (26047) | 20.72 | 19.73 | 18.76 |
| | 3RB-Middle (1) | 1914.3 (26683) | 20.44 | 19.50 | 18.55 |
| | | 1882.5 (26365) | 20.55 | 19.54 | 18.66 |
| | | 1850.7 (26047) | 20.75 | 19.73 | 18.77 |
| | 3RB-Low (0) | 1914.3 (26683) | 20.48 | 19.39 | 18.50 |
| | | 1882.5 (26365) | 20.58 | 19.49 | 18.64 |
| | | 1850.7 (26047) | 20.69 | 19.70 | 18.73 |
| | 6RB (0) | 1914.3 (26683) | 19.39 | 18.49 | 17.39 |
| | | 1882.5 (26365) | 19.57 | 18.66 | 17.47 |
| | | 1850.7 (26047) | 19.70 | 18.78 | 17.64 |
| 3MHz | 1RB-High (14) | 1913.5 (26675) | 20.40 | 19.77 | 18.62 |
| | | 1882.5 (26365) | 20.54 | 19.88 | 18.75 |
| | | 1851.5 (26055) | 20.67 | 19.87 | 18.79 |
| | 1RB-Middle (7) | 1913.5 (26675) | 20.44 | 19.75 | 18.68 |
| | | 1882.5 (26365) | 20.55 | 19.79 | 18.75 |
| | | 1851.5 (26055) | 20.68 | 20.07 | 18.82 |
| | 1RB-Low (0) | 1913.5 (26675) | 20.43 | 19.80 | 18.65 |
| | | 1882.5 (26365) | 20.53 | 19.89 | 18.66 |
| | | 1851.5 (26055) | 20.70 | 19.99 | 18.81 |
| | 8RB-High (7) | 1913.5 (26675) | 19.44 | 18.50 | 17.46 |
| | | 1882.5 (26365) | 19.53 | 18.53 | 17.52 |
| | | 1851.5 (26055) | 19.62 | 18.71 | 17.66 |
| | 8RB-Middle (4) | 1913.5 (26675) | 19.47 | 18.53 | 17.44 |
| | | 1882.5 (26365) | 19.54 | 18.53 | 17.53 |
| | | 1851.5 (26055) | 19.65 | 18.70 | 17.67 |
| | 8RB-Low (0) | 1913.5 (26675) | 19.48 | 18.49 | 17.43 |
| | | 1882.5 (26365) | 19.57 | 18.63 | 17.57 |
| | | 1851.5 (26055) | 19.73 | 18.77 | 17.73 |
| | 15RB (0) | 1913.5 (26675) | 19.46 | 18.48 | 17.46 |
| | | 1882.5 (26365) | 19.54 | 18.55 | 17.45 |
| | | 1851.5 (26055) | 19.69 | 18.68 | 17.65 |

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| 5MHz | 1RB-High (24) | 1912.5 (26665) | 20.47 | 19.87 | 18.61 |
| | | 1882.5 (26365) | 20.56 | 19.93 | 18.75 |
| | | 1852.5 (26065) | 20.70 | 19.98 | 18.81 |
| | 1RB-Middle (12) | 1912.5 (26665) | 20.50 | 19.74 | 18.63 |
| | | 1882.5 (26365) | 20.64 | 19.79 | 18.79 |
| | | 1852.5 (26065) | 20.71 | 19.97 | 18.79 |
| | 1RB-Low (0) | 1912.5 (26665) | 20.43 | 19.82 | 18.68 |
| | | 1882.5 (26365) | 20.61 | 19.86 | 18.75 |
| | | 1852.5 (26065) | 20.76 | 19.96 | 18.91 |
| | 12RB-High (13) | 1912.5 (26665) | 19.42 | 18.40 | 17.43 |
| | | 1882.5 (26365) | 19.56 | 18.54 | 17.55 |
| | | 1852.5 (26065) | 19.68 | 18.68 | 17.68 |
| | 12RB-Middle (6) | 1912.5 (26665) | 19.46 | 18.48 | 17.46 |
| | | 1882.5 (26365) | 19.55 | 18.59 | 17.58 |
| | | 1852.5 (26065) | 19.67 | 18.69 | 17.68 |
| | 12RB-Low (0) | 1912.5 (26665) | 19.49 | 18.51 | 17.49 |
| | | 1882.5 (26365) | 19.66 | 18.54 | 17.59 |
| | | 1852.5 (26065) | 19.67 | 18.69 | 17.65 |
| | 25RB (0) | 1912.5 (26665) | 19.48 | 18.50 | 17.43 |
| | | 1882.5 (26365) | 19.58 | 18.60 | 17.53 |
| | | 1852.5 (26065) | 19.72 | 18.70 | 17.64 |
| 10MHz | 1RB-High (49) | 1910 (26640) | 20.44 | 19.74 | 18.60 |
| | | 1882.5 (26365) | 20.56 | 19.72 | 18.71 |
| | | 1855 (26090) | 20.65 | 19.94 | 18.78 |
| | 1RB-Middle (24) | 1910 (26640) | 20.44 | 19.78 | 18.58 |
| | | 1882.5 (26365) | 20.60 | 19.96 | 18.81 |
| | | 1855 (26090) | 20.70 | 19.99 | 18.85 |
| | 1RB-Low (0) | 1910 (26640) | 20.49 | 19.65 | 18.67 |
| | | 1882.5 (26365) | 20.57 | 19.98 | 18.71 |
| | | 1855 (26090) | 20.75 | 20.00 | 18.78 |
| | 25RB-High (25) | 1910 (26640) | 19.43 | 18.45 | 17.42 |
| | | 1882.5 (26365) | 19.59 | 18.61 | 17.58 |
| | | 1855 (26090) | 19.71 | 18.69 | 17.64 |
| | 25RB-Middle (12) | 1910 (26640) | 19.50 | 18.49 | 17.46 |
| | | 1882.5 (26365) | 19.62 | 18.60 | 17.58 |
| | | 1855 (26090) | 19.72 | 18.73 | 17.67 |
| | 25RB-Low (0) | 1910 (26640) | 19.49 | 18.50 | 17.45 |
| | | 1882.5 (26365) | 19.53 | 18.59 | 17.55 |
| | | 1855 (26090) | 19.72 | 18.72 | 17.64 |
| | 50RB (0) | 1910 (26640) | 19.47 | 18.49 | 17.48 |
| | | 1882.5 (26365) | 19.57 | 18.60 | 17.59 |
| | | 1855 (26090) | 19.76 | 18.73 | 17.62 |

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| 15MHz | 1RB-High (74) | 1907.5 (26615) | 20.40 | 19.70 | 18.58 |
| | | 1882.5 (26365) | 20.52 | 19.71 | 18.66 |
| | | 1857.5 (26115) | 20.65 | 20.01 | 18.82 |
| | 1RB-Middle (37) | 1907.5 (26615) | 20.45 | 19.86 | 18.59 |
| | | 1882.5 (26365) | 20.61 | 19.96 | 18.71 |
| | | 1857.5 (26115) | 20.71 | 19.91 | 18.86 |
| | 1RB-Low (0) | 1907.5 (26615) | 20.45 | 19.67 | 18.69 |
| | | 1882.5 (26365) | 20.60 | 19.85 | 18.68 |
| | | 1857.5 (26115) | 20.70 | 20.01 | 18.87 |
| | 36RB-High (38) | 1907.5 (26615) | 19.49 | 18.47 | 17.43 |
| | | 1882.5 (26365) | 19.55 | 18.51 | 17.49 |
| | | 1857.5 (26115) | 19.61 | 18.62 | 17.64 |
| | 36RB-Middle (19) | 1907.5 (26615) | 19.47 | 18.51 | 17.50 |
| | | 1882.5 (26365) | 19.59 | 18.57 | 17.56 |
| | | 1857.5 (26115) | 19.69 | 18.70 | 17.65 |
| | 36RB-Low (0) | 1907.5 (26615) | 19.53 | 18.53 | 17.48 |
| | | 1882.5 (26365) | 19.60 | 18.55 | 17.55 |
| | | 1857.5 (26115) | 19.71 | 18.70 | 17.66 |
| | 75RB (0) | 1907.5 (26615) | 19.50 | 18.46 | 17.45 |
| | | 1882.5 (26365) | 19.54 | 18.49 | 17.54 |
| | | 1857.5 (26115) | 19.65 | 18.65 | 17.67 |
| 20MHz | 1RB-High (99) | 1905 (26590) | 20.41 | 19.74 | 18.59 |
| | | 1882.5 (26365) | 20.51 | 19.76 | 18.65 |
| | | 1860 (26140) | 20.51 | 19.70 | 18.60 |
| | 1RB-Middle (50) | 1905 (26590) | 20.54 | 19.86 | 18.68 |
| | | 1882.5 (26365) | 20.60 | 19.87 | 18.66 |
| | | 1860 (26140) | 20.70 | 20.03 | 18.83 |
| | 1RB-Low (0) | 1905 (26590) | 20.45 | 19.65 | 18.50 |
| | | 1882.5 (26365) | 20.58 | 19.77 | 18.72 |
| | | 1860 (26140) | 20.68 | 19.99 | 18.76 |
| | 50RB-High (50) | 1905 (26590) | 19.49 | 18.50 | 17.47 |
| | | 1882.5 (26365) | 19.55 | 18.54 | 18.56 |
| | | 1860 (26140) | 19.64 | 18.64 | 17.62 |
| | 50RB-Middle (25) | 1905 (26590) | 19.58 | 18.58 | 17.54 |
| | | 1882.5 (26365) | 19.63 | 18.57 | 18.52 |
| | | 1860 (26140) | 19.68 | 18.72 | 17.66 |
| | 50RB-Low (0) | 1905 (26590) | 19.62 | 18.63 | 17.57 |
| | | 1882.5 (26365) | 19.58 | 18.57 | 18.57 |
| | | 1860 (26140) | 19.77 | 18.74 | 17.66 |
| | 100RB (0) | 1905 (26590) | 19.58 | 18.54 | 17.49 |
| | | 1882.5 (26365) | 19.58 | 18.53 | 18.50 |
| | | 1860 (26140) | 19.69 | 18.63 | 17.62 |

| LTE Band25-Power Level E1 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 1.4MHz | 1RB-High (5) | 1914.3 (26683) | 22.32 | 21.77 | 20.69 |
| | | 1882.5 (26365) | 22.44 | 21.88 | 20.71 |
| | | 1850.7 (26047) | 22.55 | 22.02 | 20.94 |
| | 1RB-Middle (3) | 1914.3 (26683) | 22.52 | 21.82 | 20.62 |
| | | 1882.5 (26365) | 22.47 | 21.85 | 20.74 |
| | | 1850.7 (26047) | 22.60 | 22.06 | 20.86 |
| | 1RB-Low (0) | 1914.3 (26683) | 22.48 | 21.73 | 20.63 |
| | | 1882.5 (26365) | 22.41 | 21.87 | 20.79 |
| | | 1850.7 (26047) | 22.55 | 22.06 | 20.89 |
| | 3RB-High (3) | 1914.3 (26683) | 22.51 | 21.55 | 20.55 |
| | | 1882.5 (26365) | 22.40 | 21.55 | 20.69 |
| | | 1850.7 (26047) | 22.59 | 21.80 | 20.83 |
| | 3RB-Middle (1) | 1914.3 (26683) | 22.52 | 21.54 | 20.66 |
| | | 1882.5 (26365) | 22.45 | 21.66 | 20.72 |
| | | 1850.7 (26047) | 22.57 | 21.79 | 20.82 |
| | 3RB-Low (0) | 1914.3 (26683) | 22.53 | 21.49 | 20.59 |
| | | 1882.5 (26365) | 22.45 | 21.67 | 20.69 |
| | | 1850.7 (26047) | 22.59 | 21.80 | 20.79 |
| | 6RB (0) | 1914.3 (26683) | 21.51 | 20.60 | 19.42 |
| | | 1882.5 (26365) | 21.63 | 20.66 | 19.55 |
| | | 1850.7 (26047) | 21.75 | 20.83 | 19.66 |
| 3MHz | 1RB-High (14) | 1913.5 (26675) | 22.33 | 21.82 | 20.63 |
| | | 1882.5 (26365) | 22.41 | 21.87 | 20.72 |
| | | 1851.5 (26055) | 22.55 | 21.88 | 20.90 |
| | 1RB-Middle (7) | 1913.5 (26675) | 22.57 | 21.81 | 20.67 |
| | | 1882.5 (26365) | 22.51 | 21.87 | 20.80 |
| | | 1851.5 (26055) | 22.60 | 22.00 | 20.95 |
| | 1RB-Low (0) | 1913.5 (26675) | 22.51 | 21.77 | 20.67 |
| | | 1882.5 (26365) | 22.46 | 21.88 | 20.74 |
| | | 1851.5 (26055) | 22.58 | 22.07 | 20.88 |
| | 8RB-High (7) | 1913.5 (26675) | 21.50 | 20.59 | 19.52 |
| | | 1882.5 (26365) | 21.57 | 20.64 | 19.59 |
| | | 1851.5 (26055) | 21.72 | 20.80 | 19.73 |
| | 8RB-Middle (4) | 1913.5 (26675) | 21.50 | 20.55 | 19.49 |
| | | 1882.5 (26365) | 21.62 | 20.63 | 19.56 |
| | | 1851.5 (26055) | 21.73 | 20.80 | 19.75 |
| | 8RB-Low (0) | 1913.5 (26675) | 21.52 | 20.61 | 19.51 |
| | | 1882.5 (26365) | 21.64 | 20.71 | 19.66 |
| | | 1851.5 (26055) | 21.77 | 20.80 | 19.77 |
| | 15RB (0) | 1913.5 (26675) | 21.55 | 20.56 | 19.47 |
| | | 1882.5 (26365) | 21.63 | 20.56 | 19.60 |
| | | 1851.5 (26055) | 21.71 | 20.76 | 19.67 |

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|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 1912.5 (26665) | 22.34 | 21.83 | 20.76 |
| | | 1882.5 (26365) | 22.37 | 21.86 | 20.67 |
| | | 1852.5 (26065) | 22.57 | 21.95 | 20.86 |
| | 1RB-Middle (12) | 1912.5 (26665) | 22.54 | 21.85 | 20.75 |
| | | 1882.5 (26365) | 22.47 | 21.86 | 20.86 |
| | | 1852.5 (26065) | 22.62 | 22.00 | 20.91 |
| | 1RB-Low (0) | 1912.5 (26665) | 22.52 | 21.85 | 20.68 |
| | | 1882.5 (26365) | 22.48 | 21.96 | 20.73 |
| | | 1852.5 (26065) | 22.62 | 21.93 | 20.87 |
| | 12RB-High (13) | 1912.5 (26665) | 21.52 | 20.48 | 19.49 |
| | | 1882.5 (26365) | 21.54 | 20.46 | 19.55 |
| | | 1852.5 (26065) | 21.75 | 20.67 | 19.71 |
| | 12RB-Middle (6) | 1912.5 (26665) | 21.54 | 20.57 | 19.54 |
| | | 1882.5 (26365) | 21.64 | 20.65 | 19.63 |
| | | 1852.5 (26065) | 21.73 | 20.73 | 19.71 |
| | 12RB-Low (0) | 1912.5 (26665) | 21.54 | 20.49 | 19.57 |
| | | 1882.5 (26365) | 21.63 | 20.60 | 19.66 |
| | | 1852.5 (26065) | 21.77 | 20.75 | 19.73 |
| | 25RB (0) | 1912.5 (26665) | 21.52 | 20.56 | 19.47 |
| | | 1882.5 (26365) | 21.59 | 20.65 | 19.57 |
| | | 1852.5 (26065) | 21.77 | 20.78 | 19.72 |
| 10MHz | 1RB-High (49) | 1910 (26640) | 22.49 | 21.80 | 20.63 |
| | | 1882.5 (26365) | 22.31 | 21.83 | 20.69 |
| | | 1855 (26090) | 22.51 | 21.89 | 20.85 |
| | 1RB-Middle (24) | 1910 (26640) | 22.52 | 21.79 | 20.68 |
| | | 1882.5 (26365) | 22.49 | 21.86 | 20.83 |
| | | 1855 (26090) | 22.60 | 21.94 | 20.82 |
| | 1RB-Low (0) | 1910 (26640) | 22.55 | 21.82 | 20.66 |
| | | 1882.5 (26365) | 22.49 | 21.98 | 20.82 |
| | | 1855 (26090) | 22.58 | 22.06 | 20.91 |
| | 25RB-High (25) | 1910 (26640) | 21.52 | 20.55 | 19.49 |
| | | 1882.5 (26365) | 21.65 | 20.59 | 19.61 |
| | | 1855 (26090) | 21.70 | 20.76 | 19.68 |
| | 25RB-Middle (12) | 1910 (26640) | 21.47 | 20.50 | 19.48 |
| | | 1882.5 (26365) | 21.68 | 20.67 | 19.64 |
| | | 1855 (26090) | 21.71 | 20.76 | 19.69 |
| | 25RB-Low (0) | 1910 (26640) | 21.52 | 20.57 | 19.49 |
| | | 1882.5 (26365) | 21.63 | 20.60 | 19.64 |
| | | 1855 (26090) | 21.70 | 20.76 | 19.68 |
| | 50RB (0) | 1910 (26640) | 21.49 | 20.53 | 19.49 |
| | | 1882.5 (26365) | 21.60 | 20.60 | 19.55 |
| | | 1855 (26090) | 21.77 | 20.77 | 19.74 |

| | | | | | |
|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 1907.5 (26615) | 22.48 | 21.80 | 20.64 |
| | | 1882.5 (26365) | 22.31 | 21.80 | 20.67 |
| | | 1857.5 (26115) | 22.47 | 21.90 | 20.75 |
| | 1RB-Middle (37) | 1907.5 (26615) | 22.52 | 21.91 | 20.70 |
| | | 1882.5 (26365) | 22.46 | 21.87 | 20.81 |
| | | 1857.5 (26115) | 22.59 | 22.00 | 20.90 |
| | 1RB-Low (0) | 1907.5 (26615) | 22.42 | 21.95 | 20.80 |
| | | 1882.5 (26365) | 22.46 | 21.84 | 20.84 |
| | | 1857.5 (26115) | 22.54 | 22.02 | 20.88 |
| | 36RB-High (38) | 1907.5 (26615) | 21.56 | 20.53 | 19.44 |
| | | 1882.5 (26365) | 21.61 | 20.52 | 19.57 |
| | | 1857.5 (26115) | 21.71 | 20.69 | 19.68 |
| | 36RB-Middle (19) | 1907.5 (26615) | 21.49 | 20.54 | 19.48 |
| | | 1882.5 (26365) | 21.60 | 20.56 | 19.51 |
| | | 1857.5 (26115) | 21.70 | 20.71 | 19.74 |
| | 36RB-Low (0) | 1907.5 (26615) | 21.59 | 20.59 | 19.55 |
| | | 1882.5 (26365) | 21.60 | 20.66 | 19.65 |
| | | 1857.5 (26115) | 21.74 | 20.75 | 19.73 |
| | 75RB (0) | 1907.5 (26615) | 21.57 | 20.57 | 19.48 |
| | | 1882.5 (26365) | 21.58 | 20.60 | 19.57 |
| | | 1857.5 (26115) | 21.69 | 20.71 | 19.66 |
| 20MHz | 1RB-High (99) | 1905 (26590) | 22.52 | 21.86 | 20.70 |
| | | 1882.5 (26365) | 22.38 | 21.86 | 20.73 |
| | | 1860 (26140) | 22.53 | 22.00 | 20.83 |
| | 1RB-Middle (50) | 1905 (26590) | 22.63 | 21.94 | 20.80 |
| | | 1882.5 (26365) | 22.55 | 21.99 | 20.79 |
| | | 1860 (26140) | 22.63 | 22.06 | 20.83 |
| | 1RB-Low (0) | 1905 (26590) | 22.46 | 21.93 | 20.76 |
| | | 1882.5 (26365) | 22.49 | 21.98 | 20.82 |
| | | 1860 (26140) | 22.56 | 22.01 | 20.98 |
| | 50RB-High (50) | 1905 (26590) | 21.64 | 20.63 | 19.58 |
| | | 1882.5 (26365) | 21.64 | 20.65 | 19.60 |
| | | 1860 (26140) | 21.72 | 20.76 | 19.69 |
| | 50RB-Middle (25) | 1905 (26590) | 21.64 | 20.65 | 19.66 |
| | | 1882.5 (26365) | 21.64 | 20.67 | 19.64 |
| | | 1860 (26140) | 21.82 | 20.78 | 19.79 |
| | 50RB-Low (0) | 1905 (26590) | 21.75 | 20.73 | 19.74 |
| | | 1882.5 (26365) | 21.69 | 20.70 | 19.61 |
| | | 1860 (26140) | 21.77 | 20.79 | 19.80 |
| | 100RB (0) | 1905 (26590) | 21.67 | 20.61 | 19.61 |
| | | 1882.5 (26365) | 21.69 | 20.57 | 19.60 |
| | | 1860 (26140) | 21.78 | 20.72 | 19.72 |

| LTE Band26-Power Level A1/B1/C1/D1/E1/F1 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 1.4MHz | 1RB-High (5) | 848.3 (27033) | 22.96 | 22.27 | 21.16 |
| | | 831.5 (26865) | 22.99 | 22.23 | 21.17 |
| | | 814.7 (26697) | 23.01 | 22.14 | 21.14 |
| | 1RB-Middle (3) | 848.3 (27033) | 22.87 | 22.21 | 21.12 |
| | | 831.5 (26865) | 23.02 | 22.22 | 21.18 |
| | | 814.7 (26697) | 23.01 | 22.13 | 21.09 |
| | 1RB-Low (0) | 848.3 (27033) | 22.93 | 22.28 | 21.15 |
| | | 831.5 (26865) | 23.04 | 22.26 | 21.14 |
| | | 814.7 (26697) | 23.03 | 22.21 | 21.13 |
| | 3RB-High (3) | 848.3 (27033) | 23.01 | 22.06 | 21.12 |
| | | 831.5 (26865) | 23.02 | 22.00 | 21.09 |
| | | 814.7 (26697) | 23.00 | 22.00 | 21.12 |
| | 3RB-Middle (1) | 848.3 (27033) | 23.02 | 22.08 | 21.08 |
| | | 831.5 (26865) | 23.00 | 21.98 | 21.02 |
| | | 814.7 (26697) | 23.05 | 22.00 | 21.09 |
| | 3RB-Low (0) | 848.3 (27033) | 23.01 | 22.10 | 21.06 |
| | | 831.5 (26865) | 23.03 | 22.06 | 21.04 |
| | | 814.7 (26697) | 23.02 | 22.06 | 21.03 |
| | 6RB (0) | 848.3 (27033) | 22.03 | 21.14 | 19.98 |
| | | 831.5 (26865) | 22.03 | 21.09 | 19.95 |
| | | 814.7 (26697) | 22.03 | 21.07 | 19.92 |
| 3MHz | 1RB-High (14) | 847.5 (27025) | 23.03 | 22.21 | 21.11 |
| | | 831.5 (26865) | 23.03 | 22.24 | 21.10 |
| | | 815.5 (26705) | 23.01 | 22.02 | 21.06 |
| | 1RB-Middle (7) | 847.5 (27025) | 23.07 | 22.27 | 21.21 |
| | | 831.5 (26865) | 23.04 | 22.17 | 21.11 |
| | | 815.5 (26705) | 23.01 | 22.02 | 21.14 |
| | 1RB-Low (0) | 847.5 (27025) | 23.05 | 22.30 | 21.24 |
| | | 831.5 (26865) | 23.06 | 22.37 | 21.19 |
| | | 815.5 (26705) | 23.05 | 22.06 | 21.19 |
| | 8RB-High (7) | 847.5 (27025) | 21.98 | 21.07 | 20.02 |
| | | 831.5 (26865) | 22.01 | 21.03 | 20.04 |
| | | 815.5 (26705) | 22.02 | 21.09 | 19.97 |
| | 8RB-Middle (4) | 847.5 (27025) | 21.99 | 21.10 | 20.03 |
| | | 831.5 (26865) | 21.99 | 21.03 | 19.96 |
| | | 815.5 (26705) | 21.99 | 21.09 | 20.00 |
| | 8RB-Low (0) | 847.5 (27025) | 22.03 | 21.09 | 20.03 |
| | | 831.5 (26865) | 22.05 | 21.07 | 19.98 |
| | | 815.5 (26705) | 22.03 | 21.07 | 20.00 |
| | 15RB (0) | 847.5 (27025) | 22.03 | 21.09 | 20.02 |
| | | 831.5 (26865) | 22.05 | 21.06 | 20.01 |
| | | 815.5 (26705) | 22.01 | 21.06 | 19.97 |

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|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 846.5 (27015) | 23.13 | 22.24 | 21.18 |
| | | 831.5 (26865) | 23.07 | 22.32 | 21.16 |
| | | 816.5 (26715) | 23.06 | 22.23 | 21.19 |
| | 1RB-Middle (12) | 846.5 (27015) | 23.08 | 22.29 | 21.23 |
| | | 831.5 (26865) | 23.15 | 22.26 | 21.26 |
| | | 816.5 (26715) | 23.07 | 22.29 | 21.21 |
| | 1RB-Low (0) | 846.5 (27015) | 23.04 | 22.24 | 21.17 |
| | | 831.5 (26865) | 23.08 | 22.30 | 21.26 |
| | | 816.5 (26715) | 23.10 | 22.27 | 21.20 |
| | 12RB-High (13) | 846.5 (27015) | 22.01 | 21.00 | 20.02 |
| | | 831.5 (26865) | 22.03 | 21.02 | 20.00 |
| | | 816.5 (26715) | 22.05 | 21.02 | 20.00 |
| | 12RB-Middle (6) | 846.5 (27015) | 22.05 | 21.03 | 20.06 |
| | | 831.5 (26865) | 22.03 | 21.03 | 20.03 |
| | | 816.5 (26715) | 22.04 | 21.03 | 20.01 |
| | 12RB-Low (0) | 846.5 (27015) | 22.06 | 21.08 | 20.07 |
| | | 831.5 (26865) | 22.02 | 20.97 | 19.99 |
| | | 816.5 (26715) | 22.04 | 20.97 | 20.06 |
| | 25RB (0) | 846.5 (27015) | 22.08 | 21.04 | 20.03 |
| | | 831.5 (26865) | 22.06 | 21.05 | 20.05 |
| | | 816.5 (26715) | 22.05 | 21.08 | 20.03 |
| 10MHz | 1RB-High (49) | 844 (26990) | 23.09 | 22.29 | 21.13 |
| | | 831.5 (26865) | 23.04 | 22.26 | 21.08 |
| | | 820 (26750) | 23.02 | 22.25 | 21.16 |
| | 1RB-Middle (24) | 844 (26990) | 23.09 | 22.24 | 21.20 |
| | | 831.5 (26865) | 23.07 | 22.41 | 21.18 |
| | | 820 (26750) | 23.10 | 22.26 | 21.20 |
| | 1RB-Low (0) | 844 (26990) | 23.06 | 22.33 | 21.13 |
| | | 831.5 (26865) | 23.05 | 22.35 | 21.14 |
| | | 820 (26750) | 23.14 | 22.32 | 21.19 |
| | 25RB-High (25) | 844 (26990) | 21.99 | 20.98 | 20.07 |
| | | 831.5 (26865) | 22.04 | 21.08 | 20.03 |
| | | 820 (26750) | 22.02 | 21.01 | 20.02 |
| | 25RB-Middle (12) | 844 (26990) | 22.04 | 21.05 | 20.01 |
| | | 831.5 (26865) | 21.99 | 21.07 | 20.03 |
| | | 820 (26750) | 22.04 | 21.07 | 20.05 |
| | 25RB-Low (0) | 844 (26990) | 22.10 | 21.11 | 20.07 |
| | | 831.5 (26865) | 22.05 | 21.07 | 20.04 |
| | | 820 (26750) | 22.02 | 21.03 | 20.01 |
| | 50RB (0) | 844 (26990) | 22.06 | 21.05 | 20.04 |
| | | 831.5 (26865) | 22.06 | 21.03 | 20.02 |
| | | 820 (26750) | 22.08 | 21.04 | 20.03 |

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| 15MHz | 1RB-High (74) | 841.5 (26965) | 22.65 | 21.78 | 20.69 |
| | | 831.5 (26865) | 22.49 | 21.69 | 20.56 |
| | | 822.5 (26775) | 22.39 | 21.70 | 20.56 |
| | 1RB-Middle (37) | 841.5 (26965) | 22.57 | 21.76 | 20.69 |
| | | 831.5 (26865) | 22.52 | 21.73 | 20.67 |
| | | 822.5 (26775) | 22.53 | 21.78 | 20.64 |
| | 1RB-Low (0) | 841.5 (26965) | 22.50 | 21.76 | 20.62 |
| | | 831.5 (26865) | 22.44 | 21.77 | 20.58 |
| | | 822.5 (26775) | 22.52 | 21.71 | 20.61 |
| | 36RB-High (38) | 841.5 (26965) | 21.57 | 20.55 | 19.50 |
| | | 831.5 (26865) | 21.51 | 20.47 | 19.49 |
| | | 822.5 (26775) | 21.44 | 20.39 | 19.45 |
| | 36RB-Middle (19) | 841.5 (26965) | 21.56 | 20.58 | 19.55 |
| | | 831.5 (26865) | 21.44 | 20.51 | 19.46 |
| | | 822.5 (26775) | 21.51 | 20.46 | 19.49 |
| | 36RB-Low (0) | 841.5 (26965) | 21.53 | 20.54 | 19.53 |
| | | 831.5 (26865) | 21.49 | 20.44 | 19.41 |
| | | 822.5 (26775) | 21.48 | 20.45 | 19.46 |
| | 75RB (0) | 841.5 (26965) | 21.56 | 20.56 | 19.52 |
| | | 831.5 (26865) | 21.50 | 20.42 | 19.47 |
| | | 822.5 (26775) | 21.48 | 20.45 | 19.42 |

| LTE Band38-Power Level A1/C1/D1 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 5MHz | 1RB-High (24) | 2617.5 (38225) | 23.41 | 22.55 | 21.20 |
| | | 2595 (38000) | 23.37 | 22.51 | 21.16 |
| | | 2572.5 (37775) | 23.31 | 22.47 | 21.10 |
| | 1RB-Middle (12) | 2617.5 (38225) | 23.53 | 22.59 | 21.26 |
| | | 2595 (38000) | 23.46 | 22.51 | 21.19 |
| | | 2572.5 (37775) | 23.37 | 22.49 | 21.14 |
| | 1RB-Low (0) | 2617.5 (38225) | 23.45 | 22.59 | 21.25 |
| | | 2595 (38000) | 23.38 | 22.51 | 21.16 |
| | | 2572.5 (37775) | 23.38 | 22.51 | 21.15 |
| | 12RB-High (13) | 2617.5 (38225) | 22.52 | 21.41 | 20.48 |
| | | 2595 (38000) | 22.48 | 21.39 | 20.47 |
| | | 2572.5 (37775) | 22.45 | 21.36 | 20.42 |
| | 12RB-Middle (6) | 2617.5 (38225) | 22.53 | 21.45 | 20.49 |
| | | 2595 (38000) | 22.50 | 21.42 | 20.45 |
| | | 2572.5 (37775) | 22.49 | 21.40 | 20.46 |
| | 12RB-Low (0) | 2617.5 (38225) | 22.57 | 21.49 | 20.57 |
| | | 2595 (38000) | 22.54 | 21.44 | 20.52 |
| | | 2572.5 (37775) | 22.51 | 21.45 | 20.50 |
| | 25RB (0) | 2617.5 (38225) | 22.50 | 21.53 | 20.52 |
| | | 2595 (38000) | 22.50 | 21.53 | 20.51 |
| | | 2572.5 (37775) | 22.49 | 21.52 | 20.51 |
| 10MHz | 1RB-High (49) | 2615 (38200) | 23.35 | 22.52 | 21.15 |
| | | 2595 (38000) | 23.28 | 22.44 | 21.08 |
| | | 2575 (37800) | 23.34 | 22.50 | 21.13 |
| | 1RB-Middle (24) | 2615 (38200) | 23.47 | 22.58 | 21.22 |
| | | 2595 (38000) | 23.42 | 22.55 | 21.18 |
| | | 2575 (37800) | 23.39 | 22.54 | 21.15 |
| | 1RB-Low (0) | 2615 (38200) | 23.39 | 22.56 | 21.19 |
| | | 2595 (38000) | 23.36 | 22.53 | 21.16 |
| | | 2575 (37800) | 23.38 | 22.54 | 21.15 |
| | 25RB-High (25) | 2615 (38200) | 22.49 | 21.53 | 20.52 |
| | | 2595 (38000) | 22.45 | 21.46 | 20.48 |
| | | 2575 (37800) | 22.50 | 21.52 | 20.51 |
| | 25RB-Middle (12) | 2615 (38200) | 22.52 | 21.55 | 20.54 |
| | | 2595 (38000) | 22.46 | 21.47 | 20.49 |
| | | 2575 (37800) | 22.51 | 21.54 | 20.53 |
| | 25RB-Low (0) | 2615 (38200) | 22.51 | 21.55 | 20.57 |
| | | 2595 (38000) | 22.50 | 21.53 | 20.53 |
| | | 2575 (37800) | 22.54 | 21.55 | 20.57 |
| | 50RB (0) | 2615 (38200) | 22.56 | 21.57 | 20.53 |
| | | 2595 (38000) | 22.50 | 21.50 | 20.48 |
| | | 2575 (37800) | 22.56 | 21.55 | 20.52 |

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| 15MHz | 1RB-High (74) | 2612.5 (38175) | 23.28 | 22.43 | 21.07 |
| | | 2595 (38000) | 23.20 | 22.36 | 20.98 |
| | | 2577.5 (37825) | 23.22 | 22.42 | 21.02 |
| | 1RB-Middle (37) | 2612.5 (38175) | 23.35 | 22.50 | 21.14 |
| | | 2595 (38000) | 23.37 | 22.53 | 21.14 |
| | | 2577.5 (37825) | 23.34 | 22.50 | 21.13 |
| | 1RB-Low (0) | 2612.5 (38175) | 23.34 | 22.50 | 21.12 |
| | | 2595 (38000) | 23.33 | 22.48 | 21.11 |
| | | 2577.5 (37825) | 23.33 | 22.49 | 21.10 |
| | 36RB-High (38) | 2612.5 (38175) | 22.43 | 21.44 | 20.43 |
| | | 2595 (38000) | 22.42 | 21.41 | 20.40 |
| | | 2577.5 (37825) | 22.43 | 21.40 | 20.38 |
| | 36RB-Middle (19) | 2612.5 (38175) | 22.45 | 21.42 | 20.43 |
| | | 2595 (38000) | 22.46 | 21.42 | 20.46 |
| | | 2577.5 (37825) | 22.45 | 21.43 | 20.46 |
| | 36RB-Low (0) | 2612.5 (38175) | 22.45 | 21.44 | 20.46 |
| | | 2595 (38000) | 22.42 | 21.43 | 20.43 |
| | | 2577.5 (37825) | 22.43 | 21.40 | 20.43 |
| | 75RB (0) | 2612.5 (38175) | 22.45 | 21.47 | 20.48 |
| | | 2595 (38000) | 22.45 | 21.46 | 20.43 |
| | | 2577.5 (37825) | 22.46 | 21.48 | 20.46 |
| 20MHz | 1RB-High (99) | 2610 (38150) | 22.82 | 21.82 | 20.43 |
| | | 2595 (38000) | 22.71 | 21.88 | 20.48 |
| | | 2580 (37850) | 22.59 | 21.77 | 20.37 |
| | 1RB-Middle (50) | 2610 (38150) | 22.98 | 21.98 | 20.57 |
| | | 2595 (38000) | 22.78 | 21.93 | 20.52 |
| | | 2580 (37850) | 22.66 | 21.81 | 20.41 |
| | 1RB-Low (0) | 2610 (38150) | 22.80 | 21.96 | 20.56 |
| | | 2595 (38000) | 22.70 | 21.88 | 20.46 |
| | | 2580 (37850) | 22.63 | 21.84 | 20.42 |
| | 50RB-High (50) | 2610 (38150) | 21.90 | 20.91 | 19.86 |
| | | 2595 (38000) | 21.82 | 20.84 | 19.79 |
| | | 2580 (37850) | 21.80 | 20.83 | 19.77 |
| | 50RB-Middle (25) | 2610 (38150) | 21.91 | 20.94 | 19.89 |
| | | 2595 (38000) | 21.83 | 20.85 | 19.82 |
| | | 2580 (37850) | 21.82 | 20.83 | 19.80 |
| | 50RB-Low (0) | 2610 (38150) | 21.95 | 20.94 | 19.93 |
| | | 2595 (38000) | 21.90 | 20.90 | 19.88 |
| | | 2580 (37850) | 21.85 | 20.87 | 19.82 |
| | 100RB (0) | 2610 (38150) | 21.90 | 20.90 | 19.88 |
| | | 2595 (38000) | 21.88 | 20.88 | 19.83 |
| | | 2580 (37850) | 21.86 | 20.86 | 19.81 |

| LTE Band25-Power Level B1/F1 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 5MHz | 1RB-High (24) | 2617.5 (38225) | 20.38 | 19.16 | 17.94 |
| | | 2595 (38000) | 20.26 | 19.36 | 17.76 |
| | | 2572.5 (37775) | 20.24 | 19.27 | 17.99 |
| | 1RB-Middle (12) | 2617.5 (38225) | 20.39 | 19.41 | 18.04 |
| | | 2595 (38000) | 20.40 | 19.59 | 18.23 |
| | | 2572.5 (37775) | 20.53 | 19.42 | 18.05 |
| | 1RB-Low (0) | 2617.5 (38225) | 20.38 | 19.35 | 18.03 |
| | | 2595 (38000) | 20.39 | 19.51 | 18.15 |
| | | 2572.5 (37775) | 20.46 | 19.64 | 18.00 |
| | 12RB-High (13) | 2617.5 (38225) | 19.43 | 18.49 | 17.36 |
| | | 2595 (38000) | 19.43 | 18.21 | 17.34 |
| | | 2572.5 (37775) | 19.36 | 18.40 | 17.20 |
| | 12RB-Middle (6) | 2617.5 (38225) | 19.27 | 18.35 | 17.36 |
| | | 2595 (38000) | 19.46 | 18.47 | 17.27 |
| | | 2572.5 (37775) | 19.59 | 18.44 | 17.47 |
| | 12RB-Low (0) | 2617.5 (38225) | 19.27 | 18.58 | 17.31 |
| | | 2595 (38000) | 19.53 | 18.33 | 17.30 |
| | | 2572.5 (37775) | 19.47 | 18.38 | 17.40 |
| | 25RB (0) | 2617.5 (38225) | 19.52 | 18.54 | 17.34 |
| | | 2595 (38000) | 19.30 | 18.28 | 17.37 |
| | | 2572.5 (37775) | 19.35 | 18.46 | 17.25 |
| 10MHz | 1RB-High (49) | 2615 (38200) | 20.34 | 19.37 | 17.99 |
| | | 2595 (38000) | 20.22 | 19.34 | 18.02 |
| | | 2575 (37800) | 20.43 | 19.45 | 17.84 |
| | 1RB-Middle (24) | 2615 (38200) | 20.54 | 19.46 | 17.96 |
| | | 2595 (38000) | 20.47 | 19.35 | 18.20 |
| | | 2575 (37800) | 20.43 | 19.29 | 17.97 |
| | 1RB-Low (0) | 2615 (38200) | 20.28 | 19.55 | 18.10 |
| | | 2595 (38000) | 20.29 | 19.63 | 18.08 |
| | | 2575 (37800) | 20.34 | 19.54 | 17.93 |
| | 25RB-High (25) | 2615 (38200) | 19.42 | 18.22 | 17.28 |
| | | 2595 (38000) | 19.35 | 18.32 | 17.37 |
| | | 2575 (37800) | 19.23 | 18.52 | 17.23 |
| | 25RB-Middle (12) | 2615 (38200) | 19.31 | 18.47 | 17.38 |
| | | 2595 (38000) | 19.43 | 18.58 | 17.32 |
| | | 2575 (37800) | 19.54 | 18.43 | 17.38 |
| | 25RB-Low (0) | 2615 (38200) | 19.30 | 18.44 | 17.30 |
| | | 2595 (38000) | 19.43 | 18.54 | 17.36 |
| | | 2575 (37800) | 19.37 | 18.53 | 17.43 |
| | 50RB (0) | 2615 (38200) | 19.26 | 18.37 | 17.22 |
| | | 2595 (38000) | 19.37 | 18.34 | 17.33 |
| | | 2575 (37800) | 19.43 | 18.30 | 17.36 |

| | | | | | |
|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 2612.5 (38175) | 20.36 | 19.27 | 17.84 |
| | | 2595 (38000) | 20.27 | 19.22 | 17.96 |
| | | 2577.5 (37825) | 20.38 | 19.28 | 17.83 |
| | 1RB-Middle (37) | 2612.5 (38175) | 20.29 | 19.52 | 18.01 |
| | | 2595 (38000) | 20.42 | 19.41 | 18.05 |
| | | 2577.5 (37825) | 20.34 | 19.57 | 18.00 |
| | 1RB-Low (0) | 2612.5 (38175) | 20.40 | 19.43 | 18.13 |
| | | 2595 (38000) | 20.38 | 19.46 | 18.05 |
| | | 2577.5 (37825) | 20.42 | 19.45 | 18.18 |
| | 36RB-High (38) | 2612.5 (38175) | 19.23 | 18.32 | 17.19 |
| | | 2595 (38000) | 19.39 | 18.28 | 17.39 |
| | | 2577.5 (37825) | 19.45 | 18.44 | 17.34 |
| | 36RB-Middle (19) | 2612.5 (38175) | 19.45 | 18.25 | 17.19 |
| | | 2595 (38000) | 19.47 | 18.45 | 17.38 |
| | | 2577.5 (37825) | 19.54 | 18.43 | 17.52 |
| | 36RB-Low (0) | 2612.5 (38175) | 19.48 | 18.29 | 17.45 |
| | | 2595 (38000) | 19.29 | 18.58 | 17.49 |
| | | 2577.5 (37825) | 19.60 | 18.57 | 17.54 |
| | 75RB (0) | 2612.5 (38175) | 19.41 | 18.35 | 17.24 |
| | | 2595 (38000) | 19.47 | 18.50 | 17.34 |
| | | 2577.5 (37825) | 19.32 | 18.52 | 17.55 |
| 20MHz | 1RB-High (99) | 2610 (38150) | 20.25 | 19.29 | 17.87 |
| | | 2595 (38000) | 20.28 | 19.35 | 17.91 |
| | | 2580 (37850) | 20.29 | 19.33 | 17.89 |
| | 1RB-Middle (50) | 2610 (38150) | 20.41 | 19.43 | 17.96 |
| | | 2595 (38000) | 20.44 | 19.48 | 18.11 |
| | | 2580 (37850) | 20.42 | 19.44 | 18.03 |
| | 1RB-Low (0) | 2610 (38150) | 20.41 | 19.44 | 18.00 |
| | | 2595 (38000) | 20.42 | 19.48 | 18.03 |
| | | 2580 (37850) | 20.45 | 19.50 | 18.05 |
| | 50RB-High (50) | 2610 (38150) | 19.34 | 18.35 | 17.33 |
| | | 2595 (38000) | 19.36 | 18.36 | 17.32 |
| | | 2580 (37850) | 19.37 | 18.37 | 17.33 |
| | 50RB-Middle (25) | 2610 (38150) | 19.36 | 18.39 | 17.33 |
| | | 2595 (38000) | 19.41 | 18.44 | 17.39 |
| | | 2580 (37850) | 19.46 | 18.46 | 17.42 |
| | 50RB-Low (0) | 2610 (38150) | 19.41 | 18.43 | 17.39 |
| | | 2595 (38000) | 19.44 | 18.44 | 17.41 |
| | | 2580 (37850) | 19.49 | 18.50 | 17.47 |
| | 100RB (0) | 2610 (38150) | 19.37 | 18.39 | 17.35 |
| | | 2595 (38000) | 19.40 | 18.40 | 17.36 |
| | | 2580 (37850) | 19.41 | 18.43 | 17.40 |

| LTE Band38-Power Level E1 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 5MHz | 1RB-High (24) | 2617.5 (38225) | 22.67 | 21.49 | 20.27 |
| | | 2595 (38000) | 22.63 | 21.42 | 20.05 |
| | | 2572.5 (37775) | 22.45 | 21.53 | 20.11 |
| | 1RB-Middle (12) | 2617.5 (38225) | 22.49 | 21.58 | 20.07 |
| | | 2595 (38000) | 22.63 | 21.81 | 20.29 |
| | | 2572.5 (37775) | 22.35 | 21.78 | 20.30 |
| | 1RB-Low (0) | 2617.5 (38225) | 22.65 | 21.60 | 20.34 |
| | | 2595 (38000) | 22.53 | 21.66 | 20.34 |
| | | 2572.5 (37775) | 22.31 | 21.53 | 20.16 |
| | 12RB-High (13) | 2617.5 (38225) | 21.57 | 20.58 | 19.54 |
| | | 2595 (38000) | 21.61 | 20.64 | 19.65 |
| | | 2572.5 (37775) | 21.58 | 20.70 | 19.44 |
| | 12RB-Middle (6) | 2617.5 (38225) | 21.46 | 20.75 | 19.58 |
| | | 2595 (38000) | 21.75 | 20.70 | 19.68 |
| | | 2572.5 (37775) | 21.65 | 20.56 | 19.55 |
| | 12RB-Low (0) | 2617.5 (38225) | 21.76 | 20.76 | 19.59 |
| | | 2595 (38000) | 21.84 | 20.75 | 19.59 |
| | | 2572.5 (37775) | 21.61 | 20.68 | 19.59 |
| | 25RB (0) | 2617.5 (38225) | 21.58 | 20.62 | 19.55 |
| | | 2595 (38000) | 21.60 | 20.52 | 19.43 |
| | | 2572.5 (37775) | 21.63 | 20.74 | 19.51 |
| 10MHz | 1RB-High (49) | 2615 (38200) | 22.61 | 21.56 | 20.28 |
| | | 2595 (38000) | 22.61 | 21.46 | 20.14 |
| | | 2575 (37800) | 22.40 | 21.65 | 20.07 |
| | 1RB-Middle (24) | 2615 (38200) | 22.62 | 21.71 | 20.19 |
| | | 2595 (38000) | 22.48 | 21.56 | 20.34 |
| | | 2575 (37800) | 22.51 | 21.64 | 20.35 |
| | 1RB-Low (0) | 2615 (38200) | 22.70 | 21.54 | 20.08 |
| | | 2595 (38000) | 22.47 | 21.77 | 20.21 |
| | | 2575 (37800) | 22.47 | 21.72 | 20.27 |
| | 25RB-High (25) | 2615 (38200) | 21.63 | 20.40 | 19.44 |
| | | 2595 (38000) | 21.60 | 20.52 | 19.49 |
| | | 2575 (37800) | 21.48 | 20.54 | 19.56 |
| | 25RB-Middle (12) | 2615 (38200) | 21.73 | 20.69 | 19.53 |
| | | 2595 (38000) | 21.75 | 20.57 | 19.73 |
| | | 2575 (37800) | 21.55 | 20.74 | 19.49 |
| | 25RB-Low (0) | 2615 (38200) | 21.57 | 20.82 | 19.49 |
| | | 2595 (38000) | 21.66 | 20.79 | 19.80 |
| | | 2575 (37800) | 21.85 | 20.80 | 19.57 |
| | 50RB (0) | 2615 (38200) | 21.59 | 20.47 | 19.52 |
| | | 2595 (38000) | 21.72 | 20.73 | 19.45 |
| | | 2575 (37800) | 21.65 | 20.63 | 19.57 |

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|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 2612.5 (38175) | 22.51 | 21.52 | 20.29 |
| | | 2595 (38000) | 22.52 | 21.50 | 20.24 |
| | | 2577.5 (37825) | 22.46 | 21.65 | 20.27 |
| | 1RB-Middle (37) | 2612.5 (38175) | 22.59 | 21.61 | 20.21 |
| | | 2595 (38000) | 22.60 | 21.82 | 20.22 |
| | | 2577.5 (37825) | 22.33 | 21.58 | 20.38 |
| | 1RB-Low (0) | 2612.5 (38175) | 22.68 | 21.72 | 20.11 |
| | | 2595 (38000) | 22.38 | 21.67 | 20.32 |
| | | 2577.5 (37825) | 22.37 | 21.57 | 20.25 |
| | 36RB-High (38) | 2612.5 (38175) | 21.55 | 20.59 | 19.37 |
| | | 2595 (38000) | 21.44 | 20.61 | 19.44 |
| | | 2577.5 (37825) | 21.75 | 20.75 | 19.57 |
| | 36RB-Middle (19) | 2612.5 (38175) | 21.55 | 20.62 | 19.72 |
| | | 2595 (38000) | 21.65 | 20.55 | 19.52 |
| | | 2577.5 (37825) | 21.63 | 20.82 | 19.52 |
| | 36RB-Low (0) | 2612.5 (38175) | 21.77 | 20.67 | 19.69 |
| | | 2595 (38000) | 21.60 | 20.70 | 19.75 |
| | | 2577.5 (37825) | 21.85 | 20.79 | 19.63 |
| | 75RB (0) | 2612.5 (38175) | 21.54 | 20.64 | 19.65 |
| | | 2595 (38000) | 21.69 | 20.56 | 19.71 |
| | | 2577.5 (37825) | 21.58 | 20.55 | 19.77 |
| 20MHz | 1RB-High (99) | 2610 (38150) | 22.54 | 21.54 | 20.14 |
| | | 2595 (38000) | 22.53 | 21.57 | 20.14 |
| | | 2580 (37850) | 22.34 | 21.56 | 20.16 |
| | 1RB-Middle (50) | 2610 (38150) | 22.62 | 21.62 | 20.22 |
| | | 2595 (38000) | 22.53 | 21.71 | 20.29 |
| | | 2580 (37850) | 22.47 | 21.66 | 20.25 |
| | 1RB-Low (0) | 2610 (38150) | 22.63 | 21.62 | 20.23 |
| | | 2595 (38000) | 22.45 | 21.65 | 20.26 |
| | | 2580 (37850) | 22.43 | 21.63 | 20.22 |
| | 50RB-High (50) | 2610 (38150) | 21.56 | 20.54 | 19.50 |
| | | 2595 (38000) | 21.59 | 20.59 | 19.53 |
| | | 2580 (37850) | 21.61 | 20.60 | 19.56 |
| | 50RB-Middle (25) | 2610 (38150) | 21.61 | 20.61 | 19.57 |
| | | 2595 (38000) | 21.64 | 20.65 | 19.60 |
| | | 2580 (37850) | 21.66 | 20.67 | 19.63 |
| | 50RB-Low (0) | 2610 (38150) | 21.66 | 20.67 | 19.62 |
| | | 2595 (38000) | 21.70 | 20.70 | 19.67 |
| | | 2580 (37850) | 21.72 | 20.71 | 19.66 |
| | 100RB (0) | 2610 (38150) | 21.61 | 20.60 | 19.55 |
| | | 2595 (38000) | 21.62 | 20.61 | 19.58 |
| | | 2580 (37850) | 21.64 | 20.65 | 19.62 |

| LTE Band41 PC3-Power Level A1/C1/D1 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 5MHz | 1RB-High (24) | 2687.5 (41565) | 23.28 | 22.44 | 21.03 |
| | | 2640.3(41093) | 23.16 | 22.35 | 20.92 |
| | | 2593 (40620) | 23.28 | 22.44 | 21.05 |
| | | 2545.8(40148) | 23.18 | 22.40 | 20.98 |
| | | 2498.5 (39675) | 23.32 | 22.32 | 21.12 |
| | 1RB-Middle (12) | 2687.5 (41565) | 23.33 | 22.46 | 21.08 |
| | | 2640.3(41093) | 23.28 | 22.39 | 20.98 |
| | | 2593 (40620) | 23.35 | 22.46 | 21.06 |
| | | 2545.8(40148) | 23.25 | 22.39 | 21.00 |
| | | 2498.5 (39675) | 23.35 | 22.33 | 21.11 |
| | 1RB-Low (0) | 2687.5 (41565) | 23.28 | 22.43 | 21.04 |
| | | 2640.3(41093) | 23.20 | 22.40 | 20.95 |
| | | 2593 (40620) | 23.29 | 22.44 | 21.06 |
| | | 2545.8(40148) | 23.25 | 22.25 | 21.04 |
| | | 2498.5 (39675) | 23.29 | 22.29 | 21.07 |
| | 12RB-High (13) | 2687.5 (41565) | 22.36 | 21.27 | 20.34 |
| | | 2640.3(41093) | 22.23 | 21.16 | 20.23 |
| | | 2593 (40620) | 22.36 | 21.28 | 20.33 |
| | | 2545.8(40148) | 22.31 | 21.22 | 20.31 |
| | | 2498.5 (39675) | 22.24 | 21.34 | 20.38 |
| | 12RB-Middle (6) | 2687.5 (41565) | 22.36 | 21.28 | 20.33 |
| | | 2640.3(41093) | 22.30 | 21.22 | 20.29 |
| | | 2593 (40620) | 22.37 | 21.26 | 20.35 |
| | | 2545.8(40148) | 22.32 | 21.25 | 20.32 |
| | | 2498.5 (39675) | 22.23 | 21.34 | 20.40 |
| | 12RB-Low (0) | 2687.5 (41565) | 22.38 | 21.32 | 20.41 |
| | | 2640.3(41093) | 22.33 | 21.26 | 20.33 |
| | | 2593 (40620) | 22.39 | 21.28 | 20.36 |
| | | 2545.8(40148) | 22.19 | 21.32 | 20.36 |
| | | 2498.5 (39675) | 22.24 | 21.36 | 20.40 |
| | 25RB (0) | 2687.5 (41565) | 22.36 | 21.36 | 20.38 |
| | | 2640.3(41093) | 22.31 | 21.26 | 20.28 |
| | | 2593 (40620) | 22.38 | 21.36 | 20.39 |
| | | 2545.8(40148) | 22.19 | 21.37 | 20.39 |
| | | 2498.5 (39675) | 22.26 | 21.45 | 20.46 |

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| 10MHz | 1RB-High (49) | 2685 (41540) | 22.40 | 22.41 | 21.00 |
| | | 2639(41080) | 23.12 | 22.28 | 20.87 |
| | | 2593 (40620) | 23.21 | 22.37 | 20.98 |
| | | 2547(40160) | 23.12 | 22.31 | 20.93 |
| | | 2501 (39700) | 23.30 | 22.33 | 21.08 |
| | 1RB-Middle (24) | 2685 (41540) | 22.38 | 22.46 | 21.03 |
| | | 2639(41080) | 23.19 | 22.40 | 20.98 |
| | | 2593 (40620) | 23.31 | 22.50 | 21.06 |
| | | 2547(40160) | 23.23 | 22.42 | 21.02 |
| | | 2501 (39700) | 23.34 | 22.38 | 21.10 |
| | 1RB-Low (0) | 2685 (41540) | 22.39 | 22.40 | 21.02 |
| | | 2639(41080) | 23.22 | 22.39 | 20.99 |
| | | 2593 (40620) | 23.26 | 22.43 | 21.03 |
| | | 2547(40160) | 23.23 | 22.26 | 21.01 |
| | | 2501 (39700) | 23.24 | 22.25 | 21.02 |
| | 25RB-High (25) | 2685 (41540) | 22.34 | 21.34 | 20.37 |
| | | 2639(41080) | 22.25 | 21.22 | 20.25 |
| | | 2593 (40620) | 22.34 | 21.29 | 20.34 |
| | | 2547(40160) | 22.33 | 21.30 | 20.35 |
| | | 2501 (39700) | 22.27 | 21.45 | 20.47 |
| | 25RB-Middle (12) | 2685 (41540) | 22.40 | 21.36 | 20.38 |
| | | 2639(41080) | 22.28 | 21.30 | 20.33 |
| | | 2593 (40620) | 22.40 | 21.42 | 20.39 |
| | | 2547(40160) | 22.34 | 21.29 | 20.34 |
| | | 2501 (39700) | 22.24 | 21.41 | 20.44 |
| | 25RB-Low (0) | 2685 (41540) | 22.40 | 21.35 | 20.37 |
| | | 2639(41080) | 22.32 | 21.29 | 20.33 |
| | | 2593 (40620) | 22.40 | 21.39 | 20.41 |
| | | 2547(40160) | 22.18 | 21.39 | 20.37 |
| | | 2501 (39700) | 22.21 | 21.40 | 20.39 |
| | 50RB (0) | 2685 (41540) | 22.40 | 21.38 | 20.34 |
| | | 2639(41080) | 22.30 | 21.33 | 20.27 |
| | | 2593 (40620) | 22.40 | 21.38 | 20.32 |
| | | 2547(40160) | 22.37 | 21.35 | 20.30 |
| | | 2501 (39700) | 22.27 | 21.45 | 20.42 |

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| 15MHz | 1RB-High (74) | 2682.5 (41515) | 22.34 | 22.37 | 20.94 |
| | | 2637.8(41068) | 23.07 | 22.27 | 20.82 |
| | | 2593 (40620) | 23.19 | 22.35 | 20.96 |
| | | 2548.3(40173) | 23.05 | 22.28 | 20.85 |
| | | 2503.5 (39725) | 23.28 | 22.31 | 21.10 |
| | 1RB-Middle (37) | 2682.5 (41515) | 22.34 | 22.41 | 21.01 |
| | | 2637.8(41068) | 23.16 | 22.37 | 20.97 |
| | | 2593 (40620) | 23.26 | 22.49 | 21.04 |
| | | 2548.3(40173) | 23.18 | 22.38 | 21.00 |
| | | 2503.5 (39725) | 23.27 | 22.32 | 21.08 |
| | 1RB-Low (0) | 2682.5 (41515) | 22.36 | 22.35 | 20.92 |
| | | 2637.8(41068) | 23.21 | 22.40 | 20.98 |
| | | 2593 (40620) | 23.16 | 22.40 | 20.97 |
| | | 2548.3(40173) | 23.18 | 22.20 | 20.99 |
| | | 2503.5 (39725) | 23.17 | 22.21 | 20.97 |
| | 36RB-High (38) | 2682.5 (41515) | 22.29 | 21.27 | 20.28 |
| | | 2637.8(41068) | 22.20 | 21.19 | 20.17 |
| | | 2593 (40620) | 22.30 | 21.27 | 20.27 |
| | | 2548.3(40173) | 22.25 | 21.25 | 20.19 |
| | | 2503.5 (39725) | 22.28 | 21.41 | 20.37 |
| | 36RB-Middle (19) | 2682.5 (41515) | 22.34 | 21.26 | 20.28 |
| | | 2637.8(41068) | 22.27 | 21.24 | 20.26 |
| | | 2593 (40620) | 22.37 | 21.32 | 20.33 |
| | | 2548.3(40173) | 22.31 | 21.22 | 20.27 |
| | | 2503.5 (39725) | 22.25 | 21.42 | 20.38 |
| | 36RB-Low (0) | 2682.5 (41515) | 22.33 | 21.26 | 20.24 |
| | | 2637.8(41068) | 22.28 | 21.29 | 20.30 |
| | | 2593 (40620) | 22.33 | 21.33 | 20.34 |
| | | 2548.3(40173) | 22.17 | 21.30 | 20.31 |
| | | 2503.5 (39725) | 22.19 | 21.37 | 20.31 |
| | 75RB (0) | 2682.5 (41515) | 22.35 | 21.29 | 20.29 |
| | | 2637.8(41068) | 22.27 | 21.28 | 20.26 |
| | | 2593 (40620) | 22.36 | 21.35 | 20.34 |
| | | 2548.3(40173) | 22.33 | 21.30 | 20.29 |
| | | 2503.5 (39725) | 22.27 | 21.43 | 20.41 |

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| 20MHz | 1RB-High (99) | 2680 (41490) | 22.64 | 21.68 | 20.27 |
| | | 2636.5(41055) | 22.63 | 21.66 | 20.26 |
| | | 2593 (40620) | 22.44 | 21.62 | 20.21 |
| | | 2549.5(40185) | 22.43 | 21.63 | 20.23 |
| | | 2506 (39750) | 22.43 | 21.64 | 20.24 |
| | 1RB-Middle (50) | 2680 (41490) | 22.82 | 21.82 | 20.39 |
| | | 2636.5(41055) | 22.58 | 21.77 | 20.33 |
| | | 2593 (40620) | 22.66 | 21.83 | 20.38 |
| | | 2549.5(40185) | 22.49 | 21.67 | 20.26 |
| | | 2506 (39750) | 22.54 | 21.73 | 20.31 |
| | 1RB-Low (0) | 2680 (41490) | 22.79 | 21.78 | 20.39 |
| | | 2636.5(41055) | 22.48 | 21.67 | 20.24 |
| | | 2593 (40620) | 22.60 | 21.77 | 20.37 |
| | | 2549.5(40185) | 22.42 | 21.61 | 20.19 |
| | | 2506 (39750) | 22.48 | 21.66 | 20.24 |
| | 50RB-High (50) | 2680 (41490) | 21.72 | 20.71 | 19.70 |
| | | 2636.5(41055) | 21.67 | 20.67 | 19.65 |
| | | 2593 (40620) | 21.69 | 20.68 | 19.65 |
| | | 2549.5(40185) | 21.64 | 20.67 | 19.61 |
| | | 2506 (39750) | 21.66 | 20.67 | 19.64 |
| | 50RB-Middle (25) | 2680 (41490) | 21.77 | 20.80 | 19.75 |
| | | 2636.5(41055) | 21.70 | 20.69 | 19.64 |
| | | 2593 (40620) | 21.72 | 20.74 | 19.67 |
| | | 2549.5(40185) | 21.67 | 20.66 | 19.63 |
| | | 2506 (39750) | 21.73 | 20.71 | 19.69 |
| | 50RB-Low (0) | 2680 (41490) | 21.82 | 20.84 | 19.78 |
| | | 2636.5(41055) | 21.74 | 20.74 | 19.71 |
| | | 2593 (40620) | 21.83 | 20.80 | 19.77 |
| | | 2549.5(40185) | 21.63 | 20.64 | 19.60 |
| | | 2506 (39750) | 21.71 | 20.70 | 19.66 |
| | 100RB (0) | 2680 (41490) | 21.78 | 20.78 | 19.72 |
| | | 2636.5(41055) | 21.71 | 20.69 | 19.70 |
| | | 2593 (40620) | 21.73 | 20.76 | 19.71 |
| | | 2549.5(40185) | 21.65 | 20.61 | 19.65 |
| | | 2506 (39750) | 21.71 | 20.68 | 19.65 |

| LTE Band41 PC3-Power Level B1/F1 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 5MHz | 1RB-High (24) | 2687.5 (41565) | 18.72 | 17.80 | 16.42 |
| | | 2640.3(41093) | 18.48 | 17.51 | 16.15 |
| | | 2593 (40620) | 18.63 | 17.65 | 16.26 |
| | | 2545.8(40148) | 18.65 | 17.70 | 16.33 |
| | | 2498.5 (39675) | 18.76 | 17.81 | 16.35 |
| | 1RB-Middle (12) | 2687.5 (41565) | 18.77 | 17.80 | 16.42 |
| | | 2640.3(41093) | 18.59 | 17.59 | 16.22 |
| | | 2593 (40620) | 18.66 | 17.67 | 16.28 |
| | | 2545.8(40148) | 18.72 | 17.74 | 16.38 |
| | | 2498.5 (39675) | 18.77 | 17.77 | 16.36 |
| | 1RB-Low (0) | 2687.5 (41565) | 18.72 | 17.76 | 16.38 |
| | | 2640.3(41093) | 18.54 | 17.57 | 16.18 |
| | | 2593 (40620) | 18.62 | 17.63 | 16.28 |
| | | 2545.8(40148) | 18.70 | 17.71 | 16.37 |
| | | 2498.5 (39675) | 18.76 | 17.78 | 16.37 |
| | 12RB-High (13) | 2687.5 (41565) | 17.69 | 16.64 | 15.75 |
| | | 2640.3(41093) | 17.42 | 16.45 | 15.47 |
| | | 2593 (40620) | 17.53 | 16.51 | 15.55 |
| | | 2545.8(40148) | 17.64 | 16.59 | 15.69 |
| | | 2498.5 (39675) | 17.71 | 16.63 | 15.77 |
| | 12RB-Middle (6) | 2687.5 (41565) | 17.67 | 16.67 | 15.73 |
| | | 2640.3(41093) | 17.46 | 16.44 | 15.54 |
| | | 2593 (40620) | 17.53 | 16.49 | 15.55 |
| | | 2545.8(40148) | 17.64 | 16.63 | 15.68 |
| | | 2498.5 (39675) | 17.72 | 16.64 | 15.75 |
| | 12RB-Low (0) | 2687.5 (41565) | 17.68 | 16.66 | 15.77 |
| | | 2640.3(41093) | 17.49 | 16.48 | 15.53 |
| | | 2593 (40620) | 17.58 | 16.54 | 15.63 |
| | | 2545.8(40148) | 17.67 | 16.65 | 15.69 |
| | | 2498.5 (39675) | 17.71 | 16.65 | 15.76 |
| | 25RB (0) | 2687.5 (41565) | 17.70 | 16.75 | 15.78 |
| | | 2640.3(41093) | 17.47 | 16.50 | 15.52 |
| | | 2593 (40620) | 17.57 | 16.59 | 15.61 |
| | | 2545.8(40148) | 17.69 | 16.70 | 15.72 |
| | | 2498.5 (39675) | 17.75 | 16.73 | 15.82 |

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| 10MHz | 1RB-High (49) | 2685 (41540) | 18.69 | 17.73 | 16.36 |
| | | 2639(41080) | 18.43 | 17.48 | 16.10 |
| | | 2593 (40620) | 18.51 | 17.55 | 16.18 |
| | | 2547(40160) | 18.62 | 17.64 | 16.26 |
| | | 2501 (39700) | 18.72 | 17.74 | 16.34 |
| | 1RB-Middle (24) | 2685 (41540) | 18.71 | 17.80 | 16.39 |
| | | 2639(41080) | 18.53 | 17.57 | 16.18 |
| | | 2593 (40620) | 18.62 | 17.68 | 16.29 |
| | | 2547(40160) | 18.66 | 17.72 | 16.36 |
| | | 2501 (39700) | 18.76 | 17.79 | 16.40 |
| | 1RB-Low (0) | 2685 (41540) | 18.68 | 17.73 | 16.36 |
| | | 2639(41080) | 18.53 | 17.55 | 16.22 |
| | | 2593 (40620) | 18.58 | 17.60 | 16.28 |
| | | 2547(40160) | 18.72 | 17.73 | 16.38 |
| | | 2501 (39700) | 18.72 | 17.76 | 16.33 |
| | 25RB-High (25) | 2685 (41540) | 17.67 | 16.71 | 15.74 |
| | | 2639(41080) | 17.44 | 16.49 | 15.54 |
| | | 2593 (40620) | 17.52 | 16.53 | 15.57 |
| | | 2547(40160) | 17.63 | 16.64 | 15.68 |
| | | 2501 (39700) | 17.75 | 16.72 | 15.79 |
| | 25RB-Middle (12) | 2685 (41540) | 17.67 | 16.68 | 15.76 |
| | | 2639(41080) | 17.49 | 16.50 | 15.55 |
| | | 2593 (40620) | 17.58 | 16.64 | 15.64 |
| | | 2547(40160) | 17.68 | 16.69 | 15.72 |
| | | 2501 (39700) | 17.71 | 16.69 | 15.79 |
| | 25RB-Low (0) | 2685 (41540) | 17.66 | 16.70 | 15.73 |
| | | 2639(41080) | 17.49 | 16.53 | 15.56 |
| | | 2593 (40620) | 17.59 | 16.62 | 15.63 |
| | | 2547(40160) | 17.68 | 16.71 | 15.72 |
| | | 2501 (39700) | 17.72 | 16.71 | 15.76 |
| | 50RB (0) | 2685 (41540) | 17.68 | 16.75 | 15.73 |
| | | 2639(41080) | 17.51 | 16.55 | 15.53 |
| | | 2593 (40620) | 17.59 | 16.60 | 15.55 |
| | | 2547(40160) | 17.68 | 16.73 | 15.69 |
| | | 2501 (39700) | 17.73 | 16.72 | 15.72 |

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| 15MHz | 1RB-High (74) | 2682.5 (41515) | 18.63 | 17.70 | 16.34 |
| | | 2637.8(41068) | 18.40 | 17.47 | 16.10 |
| | | 2593 (40620) | 18.48 | 17.57 | 16.18 |
| | | 2548.3(40173) | 18.53 | 17.59 | 16.26 |
| | | 2503.5 (39725) | 18.67 | 17.72 | 16.33 |
| | 1RB-Middle (37) | 2682.5 (41515) | 18.69 | 17.75 | 16.39 |
| | | 2637.8(41068) | 18.50 | 17.54 | 16.18 |
| | | 2593 (40620) | 18.58 | 17.65 | 16.29 |
| | | 2548.3(40173) | 18.65 | 17.71 | 16.31 |
| | | 2503.5 (39725) | 18.71 | 17.75 | 16.31 |
| | 1RB-Low (0) | 2682.5 (41515) | 18.64 | 17.69 | 16.33 |
| | | 2637.8(41068) | 18.52 | 17.54 | 16.22 |
| | | 2593 (40620) | 18.57 | 17.60 | 16.25 |
| | | 2548.3(40173) | 18.67 | 17.71 | 16.34 |
| | | 2503.5 (39725) | 18.67 | 17.71 | 16.29 |
| | 36RB-High (38) | 2682.5 (41515) | 17.63 | 16.64 | 15.62 |
| | | 2637.8(41068) | 17.43 | 16.45 | 15.45 |
| | | 2593 (40620) | 17.49 | 16.50 | 15.49 |
| | | 2548.3(40173) | 17.57 | 16.56 | 15.62 |
| | | 2503.5 (39725) | 17.71 | 16.64 | 15.73 |
| | 36RB-Middle (19) | 2682.5 (41515) | 17.59 | 16.61 | 15.66 |
| | | 2637.8(41068) | 17.45 | 16.43 | 15.46 |
| | | 2593 (40620) | 17.54 | 16.56 | 15.55 |
| | | 2548.3(40173) | 17.61 | 16.65 | 15.61 |
| | | 2503.5 (39725) | 17.70 | 16.68 | 15.71 |
| | 36RB-Low (0) | 2682.5 (41515) | 17.61 | 16.66 | 15.65 |
| | | 2637.8(41068) | 17.49 | 16.51 | 15.54 |
| | | 2593 (40620) | 17.55 | 16.56 | 15.55 |
| | | 2548.3(40173) | 17.65 | 16.63 | 15.66 |
| | | 2503.5 (39725) | 17.66 | 16.64 | 15.67 |
| | 75RB (0) | 2682.5 (41515) | 17.64 | 16.69 | 15.67 |
| | | 2637.8(41068) | 17.49 | 16.55 | 15.50 |
| | | 2593 (40620) | 17.55 | 16.57 | 15.56 |
| | | 2548.3(40173) | 17.64 | 16.63 | 15.67 |
| | | 2503.5 (39725) | 17.74 | 16.72 | 15.73 |

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| 20MHz | 1RB-High (99) | 2680 (41490) | 18.80 | 17.82 | 16.39 |
| | | 2636.5(41055) | 18.55 | 17.56 | 16.18 |
| | | 2593 (40620) | 18.66 | 17.65 | 16.27 |
| | | 2549.5(40185) | 18.70 | 17.70 | 16.31 |
| | | 2506 (39750) | 18.83 | 17.86 | 16.41 |
| | 1RB-Middle (50) | 2680 (41490) | 18.85 | 17.86 | 16.45 |
| | | 2636.5(41055) | 18.70 | 17.73 | 16.32 |
| | | 2593 (40620) | 18.78 | 17.78 | 16.37 |
| | | 2549.5(40185) | 18.85 | 17.85 | 16.41 |
| | | 2506 (39750) | 18.91 | 17.92 | 16.45 |
| | 1RB-Low (0) | 2680 (41490) | 18.77 | 17.77 | 16.35 |
| | | 2636.5(41055) | 18.69 | 17.67 | 16.32 |
| | | 2593 (40620) | 18.75 | 17.75 | 16.33 |
| | | 2549.5(40185) | 18.82 | 17.83 | 16.43 |
| | | 2506 (39750) | 18.82 | 17.84 | 16.38 |
| | 50RB-High (50) | 2680 (41490) | 17.82 | 16.84 | 15.79 |
| | | 2636.5(41055) | 17.64 | 16.68 | 15.61 |
| | | 2593 (40620) | 17.69 | 16.69 | 15.61 |
| | | 2549.5(40185) | 17.74 | 16.75 | 15.70 |
| | | 2506 (39750) | 17.91 | 16.90 | 15.88 |
| | 50RB-Middle (25) | 2680 (41490) | 17.81 | 16.83 | 15.79 |
| | | 2636.5(41055) | 17.68 | 16.71 | 15.60 |
| | | 2593 (40620) | 17.76 | 16.75 | 15.67 |
| | | 2549.5(40185) | 17.83 | 16.83 | 15.80 |
| | | 2506 (39750) | 17.90 | 16.89 | 15.88 |
| | 50RB-Low (0) | 2680 (41490) | 17.83 | 16.87 | 15.79 |
| | | 2636.5(41055) | 17.75 | 16.79 | 15.71 |
| | | 2593 (40620) | 17.79 | 16.80 | 15.75 |
| | | 2549.5(40185) | 17.87 | 16.87 | 15.81 |
| | | 2506 (39750) | 17.83 | 16.84 | 15.83 |
| | 100RB (0) | 2680 (41490) | 17.82 | 16.81 | 15.77 |
| | | 2636.5(41055) | 17.68 | 16.70 | 15.67 |
| | | 2593 (40620) | 17.75 | 16.74 | 15.73 |
| | | 2549.5(40185) | 17.81 | 16.82 | 15.76 |
| | | 2506 (39750) | 17.88 | 16.86 | 15.87 |

| LTE Band41 PC3-Power Level E1 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 5MHz | 1RB-High (24) | 2687.5 (41565) | 20.84 | 19.87 | 18.45 |
| | | 2640.3(41093) | 20.67 | 19.73 | 18.30 |
| | | 2593 (40620) | 20.80 | 19.86 | 18.42 |
| | | 2545.8(40148) | 20.90 | 19.91 | 18.52 |
| | | 2498.5 (39675) | 20.80 | 19.83 | 18.40 |
| | 1RB-Middle (12) | 2687.5 (41565) | 20.82 | 19.84 | 18.44 |
| | | 2640.3(41093) | 20.72 | 19.73 | 18.32 |
| | | 2593 (40620) | 20.89 | 19.92 | 18.48 |
| | | 2545.8(40148) | 20.92 | 19.95 | 18.52 |
| | | 2498.5 (39675) | 20.78 | 19.81 | 18.42 |
| | 1RB-Low (0) | 2687.5 (41565) | 20.82 | 19.84 | 18.42 |
| | | 2640.3(41093) | 20.69 | 19.72 | 18.31 |
| | | 2593 (40620) | 20.87 | 19.89 | 18.48 |
| | | 2545.8(40148) | 20.92 | 19.96 | 18.53 |
| | | 2498.5 (39675) | 20.79 | 19.80 | 18.36 |
| | 12RB-High (13) | 2687.5 (41565) | 19.75 | 18.67 | 17.73 |
| | | 2640.3(41093) | 19.62 | 18.55 | 17.63 |
| | | 2593 (40620) | 19.73 | 18.62 | 17.73 |
| | | 2545.8(40148) | 19.81 | 18.74 | 17.81 |
| | | 2498.5 (39675) | 19.73 | 18.62 | 17.70 |
| | 12RB-Middle (6) | 2687.5 (41565) | 19.77 | 18.69 | 17.73 |
| | | 2640.3(41093) | 19.65 | 18.56 | 17.60 |
| | | 2593 (40620) | 19.78 | 18.71 | 17.77 |
| | | 2545.8(40148) | 19.83 | 18.76 | 17.82 |
| | | 2498.5 (39675) | 19.74 | 18.65 | 17.70 |
| | 12RB-Low (0) | 2687.5 (41565) | 19.78 | 18.72 | 17.78 |
| | | 2640.3(41093) | 19.66 | 18.58 | 17.65 |
| | | 2593 (40620) | 19.81 | 18.76 | 17.78 |
| | | 2545.8(40148) | 19.94 | 18.85 | 17.84 |
| | | 2498.5 (39675) | 19.68 | 18.68 | 17.72 |
| | 25RB (0) | 2687.5 (41565) | 19.81 | 18.79 | 17.77 |
| | | 2640.3(41093) | 19.67 | 18.65 | 17.65 |
| | | 2593 (40620) | 19.80 | 18.77 | 17.77 |
| | | 2545.8(40148) | 19.91 | 18.86 | 17.87 |
| | | 2498.5 (39675) | 19.76 | 18.72 | 17.74 |

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| 10MHz | 1RB-High (49) | 2685 (41540) | 20.80 | 19.84 | 18.42 |
| | | 2639(41080) | 20.65 | 19.68 | 18.28 |
| | | 2593 (40620) | 20.79 | 19.86 | 18.39 |
| | | 2547(40160) | 20.85 | 19.88 | 18.48 |
| | | 2501 (39700) | 20.82 | 19.87 | 18.18 |
| | 1RB-Middle (24) | 2685 (41540) | 20.81 | 19.86 | 18.43 |
| | | 2639(41080) | 20.70 | 19.75 | 18.32 |
| | | 2593 (40620) | 20.86 | 19.92 | 18.48 |
| | | 2547(40160) | 20.91 | 19.97 | 18.54 |
| | | 2501 (39700) | 20.79 | 19.84 | 18.42 |
| | 1RB-Low (0) | 2685 (41540) | 20.81 | 19.82 | 18.41 |
| | | 2639(41080) | 20.71 | 19.75 | 18.33 |
| | | 2593 (40620) | 20.83 | 19.86 | 18.47 |
| | | 2547(40160) | 20.94 | 19.94 | 18.55 |
| | | 2501 (39700) | 20.76 | 19.79 | 18.36 |
| | 25RB-High (25) | 2685 (41540) | 19.78 | 18.75 | 17.77 |
| | | 2639(41080) | 19.66 | 18.64 | 17.64 |
| | | 2593 (40620) | 19.78 | 18.77 | 17.78 |
| | | 2547(40160) | 19.86 | 18.85 | 17.84 |
| | | 2501 (39700) | 19.79 | 18.84 | 17.77 |
| | 25RB-Middle (12) | 2685 (41540) | 19.76 | 18.77 | 17.76 |
| | | 2639(41080) | 19.66 | 18.64 | 17.63 |
| | | 2593 (40620) | 19.81 | 18.79 | 17.81 |
| | | 2547(40160) | 19.90 | 18.85 | 17.87 |
| | | 2501 (39700) | 19.79 | 18.75 | 17.78 |
| | 25RB-Low (0) | 2685 (41540) | 19.75 | 18.74 | 17.74 |
| | | 2639(41080) | 19.64 | 18.62 | 17.65 |
| | | 2593 (40620) | 19.86 | 18.82 | 17.84 |
| | | 2547(40160) | 19.91 | 18.87 | 17.91 |
| | | 2501 (39700) | 19.73 | 18.67 | 17.71 |
| | 50RB (0) | 2685 (41540) | 19.77 | 18.78 | 17.73 |
| | | 2639(41080) | 19.70 | 18.64 | 17.61 |
| | | 2593 (40620) | 19.84 | 18.80 | 17.78 |
| | | 2547(40160) | 19.90 | 18.86 | 17.84 |
| | | 2501 (39700) | 19.80 | 18.78 | 17.77 |

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| 15MHz | 1RB-High (74) | 2682.5 (41515) | 20.68 | 19.78 | 18.37 |
| | | 2637.8(41068) | 20.60 | 19.65 | 18.25 |
| | | 2593 (40620) | 20.72 | 19.72 | 18.34 |
| | | 2548.3(40173) | 20.77 | 19.82 | 18.47 |
| | | 2503.5 (39725) | 20.76 | 19.81 | 18.40 |
| | 1RB-Middle (37) | 2682.5 (41515) | 20.74 | 19.80 | 18.40 |
| | | 2637.8(41068) | 20.69 | 19.73 | 18.33 |
| | | 2593 (40620) | 20.83 | 19.89 | 18.51 |
| | | 2548.3(40173) | 20.89 | 19.92 | 18.56 |
| | | 2503.5 (39725) | 20.80 | 19.85 | 18.58 |
| | 1RB-Low (0) | 2682.5 (41515) | 20.65 | 19.73 | 18.32 |
| | | 2637.8(41068) | 20.68 | 19.75 | 18.33 |
| | | 2593 (40620) | 20.79 | 19.84 | 18.42 |
| | | 2548.3(40173) | 20.86 | 19.91 | 18.52 |
| | | 2503.5 (39725) | 20.67 | 19.72 | 18.50 |
| | 36RB-High (38) | 2682.5 (41515) | 19.70 | 18.66 | 17.66 |
| | | 2637.8(41068) | 19.58 | 18.52 | 17.53 |
| | | 2593 (40620) | 19.79 | 18.67 | 17.70 |
| | | 2548.3(40173) | 19.81 | 18.74 | 17.73 |
| | | 2503.5 (39725) | 19.81 | 18.74 | 17.78 |
| | 36RB-Middle (19) | 2682.5 (41515) | 19.68 | 18.64 | 17.64 |
| | | 2637.8(41068) | 19.54 | 18.56 | 17.57 |
| | | 2593 (40620) | 19.85 | 18.70 | 17.69 |
| | | 2548.3(40173) | 19.84 | 18.83 | 17.78 |
| | | 2503.5 (39725) | 19.77 | 18.82 | 17.70 |
| | 36RB-Low (0) | 2682.5 (41515) | 19.68 | 18.63 | 17.66 |
| | | 2637.8(41068) | 19.67 | 18.62 | 17.61 |
| | | 2593 (40620) | 19.88 | 18.74 | 17.80 |
| | | 2548.3(40173) | 19.89 | 18.85 | 17.86 |
| | | 2503.5 (39725) | 19.72 | 18.84 | 17.65 |
| | 75RB (0) | 2682.5 (41515) | 19.69 | 18.71 | 17.67 |
| | | 2637.8(41068) | 19.70 | 18.62 | 17.59 |
| | | 2593 (40620) | 19.72 | 18.79 | 17.72 |
| | | 2548.3(40173) | 19.88 | 18.86 | 17.83 |
| | | 2503.5 (39725) | 19.75 | 18.73 | 17.72 |

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| 20MHz | 1RB-High (99) | 2680 (41490) | 20.50 | 19.57 | 18.15 |
| | | 2636.5(41055) | 20.38 | 19.41 | 18.00 |
| | | 2593 (40620) | 20.50 | 19.53 | 18.11 |
| | | 2549.5(40185) | 20.58 | 19.64 | 18.21 |
| | | 2506 (39750) | 20.62 | 19.62 | 18.08 |
| | 1RB-Middle (50) | 2680 (41490) | 20.62 | 19.64 | 18.20 |
| | | 2636.5(41055) | 20.55 | 19.58 | 18.15 |
| | | 2593 (40620) | 20.70 | 19.73 | 18.31 |
| | | 2549.5(40185) | 20.71 | 19.74 | 18.30 |
| | | 2506 (39750) | 20.68 | 19.74 | 18.30 |
| | 1RB-Low (0) | 2680 (41490) | 20.49 | 19.53 | 18.12 |
| | | 2636.5(41055) | 20.51 | 19.56 | 18.15 |
| | | 2593 (40620) | 20.62 | 19.65 | 18.23 |
| | | 2549.5(40185) | 20.69 | 19.71 | 18.28 |
| | | 2506 (39750) | 20.51 | 19.52 | 18.11 |
| | 50RB-High (50) | 2680 (41490) | 19.57 | 18.59 | 17.52 |
| | | 2636.5(41055) | 19.48 | 18.49 | 17.42 |
| | | 2593 (40620) | 19.58 | 18.57 | 17.51 |
| | | 2549.5(40185) | 19.55 | 18.63 | 17.56 |
| | | 2506 (39750) | 19.68 | 18.77 | 17.64 |
| | 50RB-Middle (25) | 2680 (41490) | 19.55 | 18.58 | 17.53 |
| | | 2636.5(41055) | 19.50 | 18.49 | 17.47 |
| | | 2593 (40620) | 19.66 | 18.62 | 17.62 |
| | | 2549.5(40185) | 19.67 | 18.72 | 17.68 |
| | | 2506 (39750) | 19.66 | 18.68 | 17.60 |
| | 50RB-Low (0) | 2680 (41490) | 19.58 | 18.57 | 17.54 |
| | | 2636.5(41055) | 19.56 | 18.58 | 17.53 |
| | | 2593 (40620) | 19.69 | 18.68 | 17.65 |
| | | 2549.5(40185) | 19.75 | 18.73 | 17.68 |
| | | 2506 (39750) | 19.62 | 18.62 | 17.56 |
| | 100RB (0) | 2680 (41490) | 19.55 | 18.53 | 17.51 |
| | | 2636.5(41055) | 19.53 | 18.51 | 17.46 |
| | | 2593 (40620) | 19.60 | 18.61 | 17.56 |
| | | 2549.5(40185) | 19.68 | 18.68 | 17.61 |
| | | 2506 (39750) | 19.62 | 18.69 | 17.54 |

| LTE Band41 PC2-Power Level A1/C1/D1 | | | | | |
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| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 5MHz | 1RB-High (24) | 2687.5 (41565) | 26.32 | 25.40 | 24.16 |
| | | 2640.3(41093) | 26.21 | 25.30 | 24.06 |
| | | 2593 (40620) | 26.36 | 25.45 | 24.21 |
| | | 2545.8(40148) | 26.27 | 25.40 | 24.15 |
| | | 2498.5 (39675) | 26.39 | 25.52 | 24.27 |
| | 1RB-Middle (12) | 2687.5 (41565) | 26.39 | 25.45 | 24.24 |
| | | 2640.3(41093) | 26.30 | 25.37 | 24.14 |
| | | 2593 (40620) | 26.39 | 25.45 | 24.24 |
| | | 2545.8(40148) | 26.33 | 25.39 | 24.19 |
| | | 2498.5 (39675) | 26.44 | 25.48 | 24.28 |
| | 1RB-Low (0) | 2687.5 (41565) | 26.32 | 25.38 | 24.16 |
| | | 2640.3(41093) | 26.27 | 25.33 | 24.13 |
| | | 2593 (40620) | 26.33 | 25.44 | 24.21 |
| | | 2545.8(40148) | 26.32 | 25.41 | 24.19 |
| | | 2498.5 (39675) | 26.35 | 25.44 | 24.21 |
| | 12RB-High (13) | 2687.5 (41565) | 25.20 | 24.23 | 23.25 |
| | | 2640.3(41093) | 25.13 | 24.11 | 23.16 |
| | | 2593 (40620) | 25.24 | 24.24 | 23.26 |
| | | 2545.8(40148) | 25.15 | 24.19 | 23.20 |
| | | 2498.5 (39675) | 25.30 | 24.28 | 23.35 |
| | 12RB-Middle (6) | 2687.5 (41565) | 25.21 | 24.22 | 23.24 |
| | | 2640.3(41093) | 25.18 | 24.20 | 23.19 |
| | | 2593 (40620) | 25.23 | 24.24 | 23.26 |
| | | 2545.8(40148) | 25.20 | 24.22 | 23.21 |
| | | 2498.5 (39675) | 25.28 | 24.31 | 23.34 |
| | 12RB-Low (0) | 2687.5 (41565) | 25.26 | 24.29 | 23.28 |
| | | 2640.3(41093) | 25.20 | 24.23 | 23.23 |
| | | 2593 (40620) | 25.24 | 24.27 | 23.28 |
| | | 2545.8(40148) | 25.29 | 24.28 | 23.32 |
| | | 2498.5 (39675) | 25.27 | 24.31 | 23.37 |
| | 25RB (0) | 2687.5 (41565) | 25.23 | 24.26 | 23.24 |
| | | 2640.3(41093) | 25.13 | 24.20 | 23.18 |
| | | 2593 (40620) | 25.27 | 24.29 | 23.28 |
| | | 2545.8(40148) | 25.23 | 24.31 | 23.27 |
| | | 2498.5 (39675) | 25.32 | 24.36 | 23.34 |

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| 10MHz | 1RB-High (49) | 2685 (41540) | 26.25 | 25.41 | 24.12 |
| | | 2639(41080) | 26.18 | 25.27 | 24.02 |
| | | 2593 (40620) | 26.26 | 25.38 | 24.12 |
| | | 2547(40160) | 26.20 | 25.36 | 24.11 |
| | | 2501 (39700) | 26.36 | 25.50 | 24.27 |
| | 1RB-Middle (24) | 2685 (41540) | 26.29 | 25.43 | 24.17 |
| | | 2639(41080) | 26.24 | 25.38 | 24.13 |
| | | 2593 (40620) | 26.35 | 25.48 | 24.24 |
| | | 2547(40160) | 26.29 | 25.43 | 24.18 |
| | | 2501 (39700) | 26.39 | 25.54 | 24.28 |
| | 1RB-Low (0) | 2685 (41540) | 26.26 | 25.40 | 24.12 |
| | | 2639(41080) | 26.27 | 25.38 | 24.11 |
| | | 2593 (40620) | 26.30 | 25.44 | 24.19 |
| | | 2547(40160) | 26.29 | 25.44 | 24.17 |
| | | 2501 (39700) | 26.30 | 25.44 | 24.20 |
| | 25RB-High (25) | 2685 (41540) | 25.18 | 24.22 | 23.24 |
| | | 2639(41080) | 25.12 | 24.16 | 23.16 |
| | | 2593 (40620) | 25.23 | 24.26 | 23.28 |
| | | 2547(40160) | 25.20 | 24.23 | 23.27 |
| | | 2501 (39700) | 25.34 | 24.39 | 23.39 |
| | 25RB-Middle (12) | 2685 (41540) | 25.22 | 24.26 | 23.28 |
| | | 2639(41080) | 25.18 | 24.20 | 23.21 |
| | | 2593 (40620) | 25.28 | 24.31 | 23.33 |
| | | 2547(40160) | 25.22 | 24.24 | 23.26 |
| | | 2501 (39700) | 25.30 | 24.33 | 23.39 |
| | 25RB-Low (0) | 2685 (41540) | 25.20 | 24.25 | 23.24 |
| | | 2639(41080) | 25.15 | 24.23 | 23.22 |
| | | 2593 (40620) | 25.28 | 24.33 | 23.32 |
| | | 2547(40160) | 25.27 | 24.29 | 23.30 |
| | | 2501 (39700) | 25.29 | 24.33 | 23.34 |
| | 50RB (0) | 2685 (41540) | 25.24 | 24.27 | 23.21 |
| | | 2639(41080) | 25.19 | 24.22 | 23.16 |
| | | 2593 (40620) | 25.28 | 24.30 | 23.26 |
| | | 2547(40160) | 25.22 | 24.27 | 23.22 |
| | | 2501 (39700) | 25.32 | 24.36 | 23.35 |

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| 15MHz | 1RB-High (74) | 2682.5 (41515) | 26.18 | 25.32 | 24.07 |
| | | 2637.8(41068) | 26.11 | 25.21 | 24.16 |
| | | 2593 (40620) | 26.21 | 25.36 | 24.09 |
| | | 2548.3(40173) | 26.11 | 25.28 | 24.01 |
| | | 2503.5 (39725) | 26.35 | 25.51 | 24.28 |
| | 1RB-Middle (37) | 2682.5 (41515) | 26.26 | 25.41 | 24.12 |
| | | 2637.8(41068) | 26.22 | 25.36 | 24.09 |
| | | 2593 (40620) | 26.33 | 25.45 | 24.18 |
| | | 2548.3(40173) | 26.25 | 25.41 | 24.14 |
| | | 2503.5 (39725) | 26.35 | 25.50 | 24.23 |
| | 1RB-Low (0) | 2682.5 (41515) | 26.16 | 25.31 | 24.07 |
| | | 2637.8(41068) | 26.24 | 25.38 | 24.12 |
| | | 2593 (40620) | 26.25 | 25.38 | 24.13 |
| | | 2548.3(40173) | 26.25 | 25.41 | 24.14 |
| | | 2503.5 (39725) | 26.23 | 25.43 | 24.13 |
| | 36RB-High (38) | 2682.5 (41515) | 25.18 | 24.16 | 23.17 |
| | | 2637.8(41068) | 25.09 | 24.07 | 23.10 |
| | | 2593 (40620) | 25.21 | 24.17 | 23.20 |
| | | 2548.3(40173) | 25.15 | 24.12 | 23.15 |
| | | 2503.5 (39725) | 25.35 | 24.32 | 23.30 |
| | 36RB-Middle (19) | 2682.5 (41515) | 25.16 | 24.15 | 23.14 |
| | | 2637.8(41068) | 25.15 | 24.15 | 23.14 |
| | | 2593 (40620) | 25.27 | 24.26 | 23.26 |
| | | 2548.3(40173) | 25.20 | 24.17 | 23.16 |
| | | 2503.5 (39725) | 25.34 | 24.31 | 23.33 |
| | 36RB-Low (0) | 2682.5 (41515) | 25.16 | 24.14 | 23.14 |
| | | 2637.8(41068) | 25.22 | 24.19 | 23.24 |
| | | 2593 (40620) | 25.26 | 24.20 | 23.20 |
| | | 2548.3(40173) | 25.27 | 24.19 | 23.23 |
| | | 2503.5 (39725) | 25.31 | 24.22 | 23.27 |
| | 75RB (0) | 2682.5 (41515) | 25.18 | 24.18 | 23.18 |
| | | 2637.8(41068) | 25.16 | 24.18 | 23.17 |
| | | 2593 (40620) | 25.26 | 24.24 | 23.24 |
| | | 2548.3(40173) | 25.25 | 24.25 | 23.21 |
| | | 2503.5 (39725) | 25.35 | 24.35 | 23.36 |

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| 20MHz | 1RB-High (99) | 2680 (41490) | 25.50 | 24.61 | 23.38 |
| | | 2636.5(41055) | 25.54 | 24.66 | 23.39 |
| | | 2593 (40620) | 25.51 | 24.63 | 23.37 |
| | | 2549.5(40185) | 25.52 | 24.67 | 23.39 |
| | | 2506 (39750) | 25.52 | 24.66 | 23.41 |
| | 1RB-Middle (50) | 2680 (41490) | 25.67 | 24.77 | 23.53 |
| | | 2636.5(41055) | 25.63 | 24.74 | 23.49 |
| | | 2593 (40620) | 25.72 | 24.81 | 23.56 |
| | | 2549.5(40185) | 25.55 | 24.68 | 23.42 |
| | | 2506 (39750) | 25.63 | 24.75 | 23.48 |
| | 1RB-Low (0) | 2680 (41490) | 25.64 | 24.77 | 23.49 |
| | | 2636.5(41055) | 25.56 | 24.66 | 23.41 |
| | | 2593 (40620) | 25.66 | 24.78 | 23.53 |
| | | 2549.5(40185) | 25.48 | 25.04 | 23.35 |
| | | 2506 (39750) | 25.57 | 24.70 | 23.42 |
| | 50RB-High (50) | 2680 (41490) | 24.55 | 23.57 | 22.68 |
| | | 2636.5(41055) | 24.57 | 23.52 | 22.49 |
| | | 2593 (40620) | 24.55 | 23.59 | 22.48 |
| | | 2549.5(40185) | 24.54 | 23.56 | 22.47 |
| | | 2506 (39750) | 24.53 | 23.55 | 22.51 |
| | 50RB-Middle (25) | 2680 (41490) | 24.64 | 23.62 | 22.75 |
| | | 2636.5(41055) | 24.56 | 23.57 | 22.53 |
| | | 2593 (40620) | 24.64 | 23.64 | 22.58 |
| | | 2549.5(40185) | 24.58 | 23.58 | 22.48 |
| | | 2506 (39750) | 24.63 | 23.64 | 22.56 |
| | 50RB-Low (0) | 2680 (41490) | 24.68 | 23.70 | 22.82 |
| | | 2636.5(41055) | 24.62 | 23.64 | 22.56 |
| | | 2593 (40620) | 24.70 | 23.74 | 22.67 |
| | | 2549.5(40185) | 24.51 | 23.57 | 22.45 |
| | | 2506 (39750) | 24.58 | 23.61 | 22.54 |
| | 100RB (0) | 2680 (41490) | 24.61 | 23.61 | 22.77 |
| | | 2636.5(41055) | 24.54 | 23.57 | 22.54 |
| | | 2593 (40620) | 24.59 | 23.61 | 22.56 |
| | | 2549.5(40185) | 24.56 | 23.55 | 22.48 |
| | | 2506 (39750) | 24.55 | 23.59 | 22.52 |

| LTE Band41 PC2-Power Level B1/F1 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 5MHz | 1RB-High (24) | 2687.5 (41565) | 21.80 | 20.99 | 19.70 |
| | | 2640.3(41093) | 21.56 | 20.73 | 19.44 |
| | | 2593 (40620) | 21.68 | 20.84 | 19.62 |
| | | 2545.8(40148) | 21.70 | 20.91 | 19.65 |
| | | 2498.5 (39675) | 21.86 | 21.03 | 19.73 |
| | 1RB-Middle (12) | 2687.5 (41565) | 21.79 | 20.98 | 19.72 |
| | | 2640.3(41093) | 21.63 | 20.78 | 19.50 |
| | | 2593 (40620) | 21.70 | 20.87 | 19.61 |
| | | 2545.8(40148) | 21.79 | 20.95 | 19.69 |
| | | 2498.5 (39675) | 21.84 | 21.01 | 19.73 |
| | 1RB-Low (0) | 2687.5 (41565) | 21.77 | 20.93 | 19.68 |
| | | 2640.3(41093) | 21.59 | 20.76 | 19.51 |
| | | 2593 (40620) | 21.66 | 20.83 | 19.58 |
| | | 2545.8(40148) | 21.71 | 20.93 | 19.66 |
| | | 2498.5 (39675) | 21.81 | 21.01 | 19.73 |
| | 12RB-High (13) | 2687.5 (41565) | 20.73 | 19.69 | 18.74 |
| | | 2640.3(41093) | 20.44 | 19.45 | 18.51 |
| | | 2593 (40620) | 20.55 | 19.57 | 18.57 |
| | | 2545.8(40148) | 20.64 | 19.69 | 18.71 |
| | | 2498.5 (39675) | 20.75 | 19.71 | 18.76 |
| | 12RB-Middle (6) | 2687.5 (41565) | 20.69 | 19.70 | 18.73 |
| | | 2640.3(41093) | 20.50 | 19.51 | 18.56 |
| | | 2593 (40620) | 20.57 | 19.56 | 18.63 |
| | | 2545.8(40148) | 20.68 | 19.68 | 18.72 |
| | | 2498.5 (39675) | 20.77 | 19.76 | 18.81 |
| | 12RB-Low (0) | 2687.5 (41565) | 20.70 | 19.72 | 18.73 |
| | | 2640.3(41093) | 20.52 | 19.55 | 18.57 |
| | | 2593 (40620) | 20.63 | 19.63 | 18.69 |
| | | 2545.8(40148) | 20.73 | 19.68 | 18.74 |
| | | 2498.5 (39675) | 20.79 | 19.76 | 18.88 |
| | 25RB (0) | 2687.5 (41565) | 20.73 | 19.75 | 18.75 |
| | | 2640.3(41093) | 20.49 | 19.51 | 18.52 |
| | | 2593 (40620) | 20.62 | 19.61 | 18.62 |
| | | 2545.8(40148) | 20.70 | 19.73 | 18.73 |
| | | 2498.5 (39675) | 20.77 | 19.81 | 18.85 |

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| 10MHz | 1RB-High (49) | 2685 (41540) | 21.73 | 20.96 | 19.68 |
| | | 2639(41080) | 21.51 | 20.70 | 19.42 |
| | | 2593 (40620) | 21.59 | 20.78 | 19.49 |
| | | 2547(40160) | 21.67 | 20.89 | 19.57 |
| | | 2501 (39700) | 21.80 | 20.98 | 19.68 |
| | 1RB-Middle (24) | 2685 (41540) | 21.76 | 20.98 | 19.71 |
| | | 2639(41080) | 21.57 | 20.79 | 19.52 |
| | | 2593 (40620) | 21.68 | 20.92 | 19.63 |
| | | 2547(40160) | 21.75 | 20.99 | 19.68 |
| | | 2501 (39700) | 21.81 | 21.04 | 19.74 |
| | 1RB-Low (0) | 2685 (41540) | 21.72 | 20.93 | 19.65 |
| | | 2639(41080) | 21.56 | 20.76 | 19.51 |
| | | 2593 (40620) | 21.61 | 20.85 | 19.56 |
| | | 2547(40160) | 21.74 | 20.98 | 19.70 |
| | | 2501 (39700) | 21.76 | 20.98 | 19.68 |
| | 25RB-High (25) | 2685 (41540) | 20.71 | 19.74 | 18.77 |
| | | 2639(41080) | 20.49 | 19.47 | 18.49 |
| | | 2593 (40620) | 20.52 | 19.57 | 18.60 |
| | | 2547(40160) | 20.65 | 19.69 | 18.72 |
| | | 2501 (39700) | 20.78 | 19.80 | 18.83 |
| | 25RB-Middle (12) | 2685 (41540) | 20.71 | 19.74 | 18.76 |
| | | 2639(41080) | 20.52 | 19.52 | 18.57 |
| | | 2593 (40620) | 20.61 | 19.62 | 18.68 |
| | | 2547(40160) | 20.70 | 19.74 | 18.77 |
| | | 2501 (39700) | 20.71 | 19.76 | 18.80 |
| | 25RB-Low (0) | 2685 (41540) | 20.68 | 19.72 | 18.73 |
| | | 2639(41080) | 20.48 | 19.56 | 18.57 |
| | | 2593 (40620) | 20.63 | 19.62 | 18.66 |
| | | 2547(40160) | 20.70 | 19.75 | 18.76 |
| | | 2501 (39700) | 20.73 | 19.76 | 18.81 |
| | 50RB (0) | 2685 (41540) | 20.75 | 19.70 | 18.67 |
| | | 2639(41080) | 20.48 | 19.54 | 18.52 |
| | | 2593 (40620) | 20.57 | 19.63 | 18.58 |
| | | 2547(40160) | 20.71 | 19.75 | 18.71 |
| | | 2501 (39700) | 20.77 | 19.79 | 18.76 |

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| 15MHz | 1RB-High (74) | 2682.5 (41515) | 21.69 | 20.91 | 19.63 |
| | | 2637.8(41068) | 21.43 | 20.69 | 19.37 |
| | | 2593 (40620) | 21.57 | 20.80 | 19.46 |
| | | 2548.3(40173) | 21.56 | 20.77 | 19.53 |
| | | 2503.5 (39725) | 21.72 | 20.95 | 19.68 |
| | 1RB-Middle (37) | 2682.5 (41515) | 21.70 | 20.94 | 19.63 |
| | | 2637.8(41068) | 21.58 | 20.78 | 19.43 |
| | | 2593 (40620) | 21.68 | 20.88 | 19.57 |
| | | 2548.3(40173) | 21.73 | 20.93 | 19.64 |
| | | 2503.5 (39725) | 21.76 | 20.96 | 19.68 |
| | 1RB-Low (0) | 2682.5 (41515) | 21.65 | 20.87 | 19.61 |
| | | 2637.8(41068) | 21.60 | 20.81 | 19.53 |
| | | 2593 (40620) | 21.62 | 20.84 | 19.54 |
| | | 2548.3(40173) | 21.68 | 20.97 | 19.68 |
| | | 2503.5 (39725) | 21.70 | 20.93 | 19.66 |
| | 36RB-High (38) | 2682.5 (41515) | 20.64 | 19.60 | 18.67 |
| | | 2637.8(41068) | 20.43 | 19.40 | 18.44 |
| | | 2593 (40620) | 20.57 | 19.47 | 18.51 |
| | | 2548.3(40173) | 20.62 | 19.62 | 18.59 |
| | | 2503.5 (39725) | 20.75 | 19.73 | 18.73 |
| | 36RB-Middle (19) | 2682.5 (41515) | 20.64 | 19.63 | 18.65 |
| | | 2637.8(41068) | 20.50 | 19.47 | 18.44 |
| | | 2593 (40620) | 20.60 | 19.54 | 18.58 |
| | | 2548.3(40173) | 20.64 | 19.66 | 18.65 |
| | | 2503.5 (39725) | 20.72 | 19.74 | 18.74 |
| | 36RB-Low (0) | 2682.5 (41515) | 20.61 | 19.61 | 18.66 |
| | | 2637.8(41068) | 20.49 | 19.45 | 18.51 |
| | | 2593 (40620) | 20.60 | 19.55 | 18.58 |
| | | 2548.3(40173) | 20.70 | 19.65 | 18.66 |
| | | 2503.5 (39725) | 20.67 | 19.66 | 18.68 |
| | 75RB (0) | 2682.5 (41515) | 20.62 | 19.63 | 18.66 |
| | | 2637.8(41068) | 20.49 | 19.48 | 18.51 |
| | | 2593 (40620) | 20.57 | 19.58 | 18.58 |
| | | 2548.3(40173) | 20.68 | 19.66 | 18.69 |
| | | 2503.5 (39725) | 20.79 | 19.78 | 18.76 |

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| 20MHz | 1RB-High (99) | 2680 (41490) | 21.74 | 20.95 | 19.66 |
| | | 2636.5(41055) | 21.51 | 20.73 | 19.43 |
| | | 2593 (40620) | 21.64 | 20.83 | 19.54 |
| | | 2549.5(40185) | 21.68 | 20.89 | 19.58 |
| | | 2506 (39750) | 21.80 | 21.03 | 19.73 |
| | 1RB-Middle (50) | 2680 (41490) | 21.81 | 21.00 | 19.73 |
| | | 2636.5(41055) | 21.70 | 20.87 | 19.61 |
| | | 2593 (40620) | 21.76 | 20.97 | 19.64 |
| | | 2549.5(40185) | 21.82 | 21.02 | 19.72 |
| | | 2506 (39750) | 21.90 | 21.08 | 19.80 |
| | 1RB-Low (0) | 2680 (41490) | 21.71 | 20.90 | 19.60 |
| | | 2636.5(41055) | 21.63 | 20.85 | 19.59 |
| | | 2593 (40620) | 21.74 | 20.93 | 19.64 |
| | | 2549.5(40185) | 21.81 | 21.00 | 19.70 |
| | | 2506 (39750) | 21.79 | 21.02 | 19.71 |
| | 50RB-High (50) | 2680 (41490) | 20.76 | 19.76 | 18.72 |
| | | 2636.5(41055) | 20.55 | 19.57 | 18.55 |
| | | 2593 (40620) | 20.64 | 19.68 | 18.62 |
| | | 2549.5(40185) | 20.71 | 19.70 | 18.69 |
| | | 2506 (39750) | 20.89 | 19.88 | 18.84 |
| | 50RB-Middle (25) | 2680 (41490) | 20.78 | 19.76 | 18.72 |
| | | 2636.5(41055) | 20.63 | 19.65 | 18.57 |
| | | 2593 (40620) | 20.66 | 19.74 | 18.66 |
| | | 2549.5(40185) | 20.80 | 19.81 | 18.77 |
| | | 2506 (39750) | 20.86 | 19.89 | 18.85 |
| | 50RB-Low (0) | 2680 (41490) | 20.76 | 19.77 | 18.72 |
| | | 2636.5(41055) | 20.69 | 19.72 | 18.68 |
| | | 2593 (40620) | 20.76 | 19.78 | 18.72 |
| | | 2549.5(40185) | 20.82 | 19.87 | 18.83 |
| | | 2506 (39750) | 20.80 | 19.84 | 18.80 |
| | 100RB (0) | 2680 (41490) | 20.71 | 19.73 | 18.67 |
| | | 2636.5(41055) | 20.59 | 19.65 | 18.62 |
| | | 2593 (40620) | 20.68 | 19.71 | 18.68 |
| | | 2549.5(40185) | 20.78 | 19.79 | 18.76 |
| | | 2506 (39750) | 20.85 | 19.86 | 18.85 |

| LTE Band41 PC2-Power Level E1 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 5MHz | 1RB-High (24) | 2687.5 (41565) | 23.67 | 23.05 | 21.78 |
| | | 2640.3(41093) | 23.55 | 22.91 | 21.63 |
| | | 2593 (40620) | 23.67 | 23.00 | 21.77 |
| | | 2545.8(40148) | 23.76 | 22.94 | 21.88 |
| | | 2498.5 (39675) | 23.67 | 22.84 | 21.77 |
| | 1RB-Middle (12) | 2687.5 (41565) | 23.74 | 23.02 | 21.79 |
| | | 2640.3(41093) | 23.63 | 22.94 | 21.67 |
| | | 2593 (40620) | 23.79 | 22.90 | 21.84 |
| | | 2545.8(40148) | 23.79 | 22.92 | 21.88 |
| | | 2498.5 (39675) | 23.65 | 22.84 | 21.76 |
| | 1RB-Low (0) | 2687.5 (41565) | 23.65 | 23.01 | 21.77 |
| | | 2640.3(41093) | 23.56 | 22.92 | 21.65 |
| | | 2593 (40620) | 23.73 | 22.86 | 21.84 |
| | | 2545.8(40148) | 23.78 | 22.96 | 21.90 |
| | | 2498.5 (39675) | 23.62 | 22.79 | 21.70 |
| | 12RB-High (13) | 2687.5 (41565) | 22.80 | 21.80 | 20.78 |
| | | 2640.3(41093) | 22.68 | 21.65 | 20.70 |
| | | 2593 (40620) | 22.74 | 21.77 | 20.80 |
| | | 2545.8(40148) | 22.68 | 21.84 | 20.92 |
| | | 2498.5 (39675) | 22.56 | 21.72 | 20.84 |
| | 12RB-Middle (6) | 2687.5 (41565) | 22.78 | 21.78 | 20.83 |
| | | 2640.3(41093) | 22.67 | 21.64 | 20.69 |
| | | 2593 (40620) | 22.59 | 21.83 | 20.83 |
| | | 2545.8(40148) | 22.72 | 21.92 | 20.92 |
| | | 2498.5 (39675) | 22.57 | 21.80 | 20.80 |
| | 12RB-Low (0) | 2687.5 (41565) | 22.81 | 21.82 | 20.80 |
| | | 2640.3(41093) | 22.68 | 21.73 | 20.78 |
| | | 2593 (40620) | 22.61 | 21.83 | 20.85 |
| | | 2545.8(40148) | 22.77 | 21.97 | 21.02 |
| | | 2498.5 (39675) | 22.56 | 21.80 | 20.79 |
| | 25RB (0) | 2687.5 (41565) | 22.82 | 21.83 | 20.82 |
| | | 2640.3(41093) | 22.69 | 21.72 | 20.73 |
| | | 2593 (40620) | 22.82 | 21.82 | 20.86 |
| | | 2545.8(40148) | 22.75 | 21.93 | 20.97 |
| | | 2498.5 (39675) | 22.61 | 21.79 | 20.82 |

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| 10MHz | 1RB-High (49) | 2685 (41540) | 23.64 | 23.03 | 21.77 |
| | | 2639(41080) | 23.49 | 22.89 | 21.60 |
| | | 2593 (40620) | 23.66 | 23.03 | 21.72 |
| | | 2547(40160) | 23.70 | 22.90 | 21.85 |
| | | 2501 (39700) | 23.69 | 22.86 | 21.80 |
| | 1RB-Middle (24) | 2685 (41540) | 23.64 | 23.01 | 21.77 |
| | | 2639(41080) | 23.55 | 22.92 | 21.65 |
| | | 2593 (40620) | 23.77 | 22.96 | 21.86 |
| | | 2547(40160) | 23.80 | 23.00 | 21.89 |
| | | 2501 (39700) | 23.68 | 22.88 | 21.75 |
| | 1RB-Low (0) | 2685 (41540) | 23.61 | 22.99 | 21.73 |
| | | 2639(41080) | 23.56 | 22.94 | 21.66 |
| | | 2593 (40620) | 23.71 | 22.88 | 21.83 |
| | | 2547(40160) | 23.81 | 22.97 | 21.88 |
| | | 2501 (39700) | 23.61 | 22.76 | 21.71 |
| | 25RB-High (25) | 2685 (41540) | 22.80 | 21.85 | 20.86 |
| | | 2639(41080) | 22.65 | 21.68 | 20.71 |
| | | 2593 (40620) | 22.84 | 21.81 | 20.91 |
| | | 2547(40160) | 22.71 | 21.95 | 20.93 |
| | | 2501 (39700) | 22.66 | 21.85 | 20.90 |
| | 25RB-Middle (12) | 2685 (41540) | 22.78 | 21.84 | 20.84 |
| | | 2639(41080) | 22.68 | 21.72 | 20.73 |
| | | 2593 (40620) | 22.61 | 21.87 | 20.91 |
| | | 2547(40160) | 22.72 | 21.91 | 20.95 |
| | | 2501 (39700) | 22.65 | 21.85 | 20.89 |
| | 25RB-Low (0) | 2685 (41540) | 22.78 | 21.80 | 20.85 |
| | | 2639(41080) | 22.71 | 21.70 | 20.76 |
| | | 2593 (40620) | 22.68 | 21.88 | 20.97 |
| | | 2547(40160) | 22.75 | 21.94 | 20.98 |
| | | 2501 (39700) | 22.53 | 21.76 | 20.80 |
| | 50RB (0) | 2685 (41540) | 22.79 | 21.82 | 20.78 |
| | | 2639(41080) | 22.73 | 21.71 | 20.69 |
| | | 2593 (40620) | 22.63 | 21.87 | 20.84 |
| | | 2547(40160) | 22.72 | 21.91 | 20.93 |
| | | 2501 (39700) | 22.62 | 21.88 | 20.80 |

| | | | | | |
|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 2682.5 (41515) | 23.58 | 22.95 | 21.73 |
| | | 2637.8(41068) | 23.47 | 22.85 | 21.60 |
| | | 2593 (40620) | 23.57 | 22.95 | 21.67 |
| | | 2548.3(40173) | 23.65 | 22.85 | 21.79 |
| | | 2503.5 (39725) | 23.61 | 22.83 | 21.79 |
| | 1RB-Middle (37) | 2682.5 (41515) | 23.62 | 23.00 | 21.73 |
| | | 2637.8(41068) | 23.58 | 22.94 | 21.68 |
| | | 2593 (40620) | 23.74 | 22.93 | 21.87 |
| | | 2548.3(40173) | 23.75 | 23.00 | 21.89 |
| | | 2503.5 (39725) | 23.66 | 22.87 | 21.76 |
| | 1RB-Low (0) | 2682.5 (41515) | 23.53 | 22.92 | 21.69 |
| | | 2637.8(41068) | 23.55 | 22.92 | 21.71 |
| | | 2593 (40620) | 23.65 | 22.83 | 21.80 |
| | | 2548.3(40173) | 23.71 | 22.94 | 21.84 |
| | | 2503.5 (39725) | 23.53 | 22.77 | 21.64 |
| | 36RB-High (38) | 2682.5 (41515) | 22.72 | 21.73 | 20.75 |
| | | 2637.8(41068) | 22.63 | 21.59 | 20.66 |
| | | 2593 (40620) | 22.80 | 21.73 | 20.72 |
| | | 2548.3(40173) | 22.64 | 21.80 | 20.87 |
| | | 2503.5 (39725) | 22.67 | 21.81 | 20.82 |
| | 36RB-Middle (19) | 2682.5 (41515) | 22.72 | 21.71 | 20.69 |
| | | 2637.8(41068) | 22.64 | 21.65 | 20.60 |
| | | 2593 (40620) | 22.62 | 21.80 | 20.81 |
| | | 2548.3(40173) | 22.72 | 21.84 | 20.86 |
| | | 2503.5 (39725) | 22.64 | 21.78 | 20.80 |
| | 36RB-Low (0) | 2682.5 (41515) | 22.73 | 21.73 | 20.70 |
| | | 2637.8(41068) | 22.72 | 21.66 | 20.71 |
| | | 2593 (40620) | 22.61 | 21.81 | 20.86 |
| | | 2548.3(40173) | 22.68 | 21.88 | 20.93 |
| | | 2503.5 (39725) | 22.55 | 21.73 | 20.74 |
| | 75RB (0) | 2682.5 (41515) | 22.76 | 21.79 | 20.71 |
| | | 2637.8(41068) | 22.69 | 21.68 | 20.64 |
| | | 2593 (40620) | 22.61 | 21.82 | 20.85 |
| | | 2548.3(40173) | 22.70 | 21.89 | 20.93 |
| | | 2503.5 (39725) | 22.61 | 21.78 | 20.77 |

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|---|---|---|---|---|---|
| 20MHz | 1RB-High (99) | 2680 (41490) | 23.38 | 22.75 | 21.49 |
| | | 2636.5(41055) | 23.23 | 22.60 | 21.35 |
| | | 2593 (40620) | 23.35 | 22.77 | 21.46 |
| | | 2549.5(40185) | 23.46 | 22.60 | 21.56 |
| | | 2506 (39750) | 23.49 | 22.66 | 21.61 |
| | 1RB-Middle (50) | 2680 (41490) | 23.49 | 22.81 | 21.58 |
| | | 2636.5(41055) | 23.44 | 22.77 | 21.50 |
| | | 2593 (40620) | 23.61 | 22.75 | 21.66 |
| | | 2549.5(40185) | 23.62 | 22.75 | 21.68 |
| | | 2506 (39750) | 23.59 | 22.73 | 21.64 |
| | 1RB-Low (0) | 2680 (41490) | 23.34 | 22.72 | 21.46 |
| | | 2636.5(41055) | 23.40 | 22.80 | 21.50 |
| | | 2593 (40620) | 23.49 | 22.70 | 21.56 |
| | | 2549.5(40185) | 23.55 | 22.72 | 21.63 |
| | | 2506 (39750) | 23.39 | 22.50 | 21.49 |
| | 50RB-High (50) | 2680 (41490) | 22.59 | 21.62 | 20.60 |
| | | 2636.5(41055) | 22.49 | 21.57 | 20.49 |
| | | 2593 (40620) | 22.64 | 21.61 | 20.54 |
| | | 2549.5(40185) | 22.51 | 21.71 | 20.69 |
| | | 2506 (39750) | 22.52 | 21.73 | 20.66 |
| | 50RB-Middle (25) | 2680 (41490) | 22.60 | 21.61 | 20.54 |
| | | 2636.5(41055) | 22.58 | 21.62 | 20.53 |
| | | 2593 (40620) | 22.52 | 21.68 | 20.69 |
| | | 2549.5(40185) | 22.55 | 21.77 | 20.81 |
| | | 2506 (39750) | 22.48 | 21.73 | 20.69 |
| | 50RB-Low (0) | 2680 (41490) | 22.62 | 21.63 | 20.61 |
| | | 2636.5(41055) | 22.63 | 21.63 | 20.62 |
| | | 2593 (40620) | 22.54 | 21.73 | 20.69 |
| | | 2549.5(40185) | 22.54 | 21.77 | 20.74 |
| | | 2506 (39750) | 22.42 | 21.70 | 20.63 |
| | 100RB (0) | 2680 (41490) | 22.58 | 21.59 | 20.58 |
| | | 2636.5(41055) | 22.53 | 21.56 | 20.56 |
| | | 2593 (40620) | 22.70 | 21.66 | 20.60 |
| | | 2549.5(40185) | 22.49 | 21.71 | 20.75 |
| | | 2506 (39750) | 22.45 | 21.66 | 20.62 |

| LTE Band66-Power Level A1/C1/D1 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 1.4MHz | 1RB-High (5) | 1779.3 (132665) | 23.52 | 22.94 | 21.80 |
| | | 1745 (132322) | 23.35 | 22.71 | 21.63 |
| | | 1710.7 (131979) | 23.36 | 22.66 | 21.67 |
| | 1RB-Middle (3) | 1779.3 (132665) | 23.54 | 22.98 | 21.87 |
| | | 1745 (132322) | 23.41 | 22.89 | 21.69 |
| | | 1710.7 (131979) | 23.39 | 22.62 | 21.60 |
| | 1RB-Low (0) | 1779.3 (132665) | 23.54 | 22.93 | 21.86 |
| | | 1745 (132322) | 23.37 | 22.82 | 21.66 |
| | | 1710.7 (131979) | 23.39 | 22.82 | 21.64 |
| | 3RB-High (3) | 1779.3 (132665) | 23.57 | 22.69 | 21.72 |
| | | 1745 (132322) | 23.36 | 22.49 | 21.58 |
| | | 1710.7 (131979) | 23.37 | 22.45 | 21.55 |
| | 3RB-Middle (1) | 1779.3 (132665) | 23.57 | 22.77 | 21.81 |
| | | 1745 (132322) | 23.37 | 22.46 | 21.61 |
| | | 1710.7 (131979) | 23.38 | 22.53 | 21.61 |
| | 3RB-Low (0) | 1779.3 (132665) | 23.56 | 22.72 | 21.81 |
| | | 1745 (132322) | 23.35 | 22.53 | 21.60 |
| | | 1710.7 (131979) | 23.40 | 22.58 | 21.55 |
| | 6RB (0) | 1779.3 (132665) | 22.74 | 21.78 | 20.63 |
| | | 1745 (132322) | 22.49 | 21.56 | 20.44 |
| | | 1710.7 (131979) | 22.53 | 21.62 | 20.47 |
| 3MHz | 1RB-High (14) | 1778.5 (132657) | 23.50 | 22.90 | 21.86 |
| | | 1745 (132322) | 23.34 | 22.77 | 21.66 |
| | | 1711.5 (131987) | 23.30 | 22.72 | 21.58 |
| | 1RB-Middle (7) | 1778.5 (132657) | 23.56 | 22.95 | 21.80 |
| | | 1745 (132322) | 23.45 | 22.74 | 21.72 |
| | | 1711.5 (131987) | 23.44 | 22.78 | 21.68 |
| | 1RB-Low (0) | 1778.5 (132657) | 23.52 | 22.96 | 21.81 |
| | | 1745 (132322) | 23.39 | 22.85 | 21.65 |
| | | 1711.5 (131987) | 23.37 | 22.67 | 21.69 |
| | 8RB-High (7) | 1778.5 (132657) | 22.66 | 21.79 | 20.68 |
| | | 1745 (132322) | 22.47 | 21.54 | 20.47 |
| | | 1711.5 (131987) | 22.50 | 21.55 | 20.41 |
| | 8RB-Middle (4) | 1778.5 (132657) | 22.67 | 21.74 | 20.70 |
| | | 1745 (132322) | 22.52 | 21.58 | 20.47 |
| | | 1711.5 (131987) | 22.46 | 21.55 | 20.47 |
| | 8RB-Low (0) | 1778.5 (132657) | 22.72 | 21.78 | 20.70 |
| | | 1745 (132322) | 22.51 | 21.54 | 20.49 |
| | | 1711.5 (131987) | 22.48 | 21.54 | 20.50 |
| | 15RB (0) | 1778.5 (132657) | 22.75 | 21.77 | 20.67 |
| | | 1745 (132322) | 22.48 | 21.51 | 20.46 |
| | | 1711.5 (131987) | 22.49 | 21.50 | 20.41 |

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| 5MHz | 1RB-High (24) | 1777.5 (132647) | 23.62 | 22.93 | 21.77 |
| | | 1745 (132322) | 23.43 | 22.75 | 21.73 |
| | | 1712.5 (131997) | 23.35 | 22.66 | 21.59 |
| | 1RB-Middle (12) | 1777.5 (132647) | 23.58 | 22.90 | 21.89 |
| | | 1745 (132322) | 23.45 | 22.86 | 21.62 |
| | | 1712.5 (131997) | 23.36 | 22.75 | 21.61 |
| | 1RB-Low (0) | 1777.5 (132647) | 23.60 | 22.96 | 21.81 |
| | | 1745 (132322) | 23.46 | 22.82 | 21.67 |
| | | 1712.5 (131997) | 23.44 | 22.86 | 21.70 |
| | 12RB-High (13) | 1777.5 (132647) | 22.68 | 21.65 | 20.68 |
| | | 1745 (132322) | 22.47 | 21.45 | 20.43 |
| | | 1712.5 (131997) | 22.44 | 21.43 | 20.37 |
| | 12RB-Middle (6) | 1777.5 (132647) | 22.73 | 21.75 | 20.73 |
| | | 1745 (132322) | 22.53 | 21.51 | 20.51 |
| | | 1712.5 (131997) | 22.48 | 21.50 | 20.49 |
| | 12RB-Low (0) | 1777.5 (132647) | 22.75 | 21.74 | 20.77 |
| | | 1745 (132322) | 22.59 | 21.49 | 20.52 |
| | | 1712.5 (131997) | 22.49 | 21.51 | 20.52 |
| | 25RB (0) | 1777.5 (132647) | 22.75 | 21.76 | 20.73 |
| | | 1745 (132322) | 22.53 | 21.53 | 20.47 |
| | | 1712.5 (131997) | 22.51 | 21.51 | 20.47 |
| 10MHz | 1RB-High (49) | 1775 (132622) | 23.59 | 22.87 | 21.79 |
| | | 1745 (132322) | 23.36 | 22.77 | 21.57 |
| | | 1715 (132022) | 23.35 | 22.72 | 21.62 |
| | 1RB-Middle (24) | 1775 (132622) | 23.65 | 22.86 | 21.75 |
| | | 1745 (132322) | 23.46 | 22.75 | 21.71 |
| | | 1715 (132022) | 23.34 | 22.72 | 21.62 |
| | 1RB-Low (0) | 1775 (132622) | 23.53 | 22.88 | 21.72 |
| | | 1745 (132322) | 23.41 | 22.83 | 21.58 |
| | | 1715 (132022) | 23.42 | 22.78 | 21.60 |
| | 25RB-High (25) | 1775 (132622) | 22.75 | 21.77 | 20.73 |
| | | 1745 (132322) | 22.55 | 21.53 | 20.47 |
| | | 1715 (132022) | 22.52 | 21.48 | 20.42 |
| | 25RB-Middle (12) | 1775 (132622) | 22.74 | 21.69 | 20.71 |
| | | 1745 (132322) | 22.54 | 21.49 | 20.49 |
| | | 1715 (132022) | 22.47 | 21.47 | 20.43 |
| | 25RB-Low (0) | 1775 (132622) | 22.81 | 21.79 | 20.78 |
| | | 1745 (132322) | 22.58 | 21.49 | 20.51 |
| | | 1715 (132022) | 22.51 | 21.49 | 20.45 |
| | 50RB (0) | 1775 (132622) | 22.81 | 21.79 | 20.72 |
| | | 1745 (132322) | 22.57 | 21.54 | 20.51 |
| | | 1715 (132022) | 22.48 | 21.44 | 20.46 |

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| 15MHz | 1RB-High (74) | 1772.5 (132597) | 23.54 | 22.94 | 21.76 |
| | | 1745 (132322) | 23.35 | 22.68 | 21.68 |
| | | 1717.5 (132047) | 23.34 | 22.79 | 21.56 |
| | 1RB-Middle (37) | 1772.5 (132597) | 23.54 | 22.98 | 21.83 |
| | | 1745 (132322) | 23.39 | 22.81 | 21.74 |
| | | 1717.5 (132047) | 23.36 | 22.70 | 21.68 |
| | 1RB-Low (0) | 1772.5 (132597) | 23.40 | 22.76 | 21.61 |
| | | 1745 (132322) | 23.44 | 22.78 | 21.73 |
| | | 1717.5 (132047) | 23.37 | 22.75 | 21.61 |
| | 36RB-High (38) | 1772.5 (132597) | 22.67 | 21.64 | 20.66 |
| | | 1745 (132322) | 22.43 | 21.44 | 20.44 |
| | | 1717.5 (132047) | 22.46 | 21.42 | 20.45 |
| | 36RB-Middle (19) | 1772.5 (132597) | 22.67 | 21.68 | 20.68 |
| | | 1745 (132322) | 22.53 | 21.47 | 20.47 |
| | | 1717.5 (132047) | 22.50 | 21.47 | 20.40 |
| | 36RB-Low (0) | 1772.5 (132597) | 22.66 | 21.67 | 20.65 |
| | | 1745 (132322) | 22.54 | 21.48 | 20.51 |
| | | 1717.5 (132047) | 22.48 | 21.46 | 20.43 |
| | 75RB (0) | 1772.5 (132597) | 22.74 | 21.69 | 20.66 |
| | | 1745 (132322) | 22.54 | 21.48 | 20.45 |
| | | 1717.5 (132047) | 22.51 | 21.45 | 20.40 |
| 20MHz | 1RB-High (99) | 1770 (132572) | 22.69 | 22.07 | 20.91 |
| | | 1745 (132322) | 22.72 | 21.85 | 20.74 |
| | | 1720 (132072) | 22.68 | 21.86 | 20.82 |
| | 1RB-Middle (50) | 1770 (132572) | 22.81 | 22.04 | 20.97 |
| | | 1745 (132322) | 22.79 | 21.94 | 20.90 |
| | | 1720 (132072) | 22.82 | 22.10 | 20.91 |
| | 1RB-Low (0) | 1770 (132572) | 22.74 | 22.07 | 20.87 |
| | | 1745 (132322) | 22.72 | 21.91 | 20.86 |
| | | 1720 (132072) | 22.79 | 21.97 | 20.88 |
| | 50RB-High (50) | 1770 (132572) | 21.79 | 20.79 | 19.75 |
| | | 1745 (132322) | 21.69 | 20.68 | 19.63 |
| | | 1720 (132072) | 21.77 | 20.70 | 19.70 |
| | 50RB-Middle (25) | 1770 (132572) | 21.89 | 20.91 | 19.87 |
| | | 1745 (132322) | 21.79 | 20.77 | 19.71 |
| | | 1720 (132072) | 21.82 | 20.81 | 19.76 |
| | 50RB-Low (0) | 1770 (132572) | 21.83 | 20.85 | 19.80 |
| | | 1745 (132322) | 21.77 | 20.73 | 19.72 |
| | | 1720 (132072) | 21.78 | 20.73 | 19.76 |
| | 100RB (0) | 1770 (132572) | 21.81 | 20.79 | 19.74 |
| | | 1745 (132322) | 21.75 | 20.67 | 19.69 |
| | | 1720 (132072) | 21.78 | 20.69 | 19.65 |

| LTE Band66-Power Level B1/F1/E2 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 1.4MHz | 1RB-High (5) | 1779.3 (132665) | 19.49 | 18.87 | 17.58 |
| | | 1745 (132322) | 19.3 | 18.63 | 17.43 |
| | | 1710.7 (131979) | 19.3 | 18.61 | 17.45 |
| | 1RB-Middle (3) | 1779.3 (132665) | 19.5 | 18.87 | 17.66 |
| | | 1745 (132322) | 19.32 | 18.52 | 17.42 |
| | | 1710.7 (131979) | 19.32 | 18.68 | 17.41 |
| | 1RB-Low (0) | 1779.3 (132665) | 19.46 | 18.88 | 17.58 |
| | | 1745 (132322) | 19.27 | 18.55 | 17.47 |
| | | 1710.7 (131979) | 19.33 | 18.56 | 17.48 |
| | 3RB-High (3) | 1779.3 (132665) | 19.56 | 18.6 | 17.61 |
| | | 1745 (132322) | 19.33 | 18.32 | 17.41 |
| | | 1710.7 (131979) | 19.32 | 18.33 | 17.41 |
| | 3RB-Middle (1) | 1779.3 (132665) | 19.51 | 18.56 | 17.64 |
| | | 1745 (132322) | 19.38 | 18.34 | 17.37 |
| | | 1710.7 (131979) | 19.31 | 18.31 | 17.39 |
| | 3RB-Low (0) | 1779.3 (132665) | 19.56 | 18.54 | 17.61 |
| | | 1745 (132322) | 19.35 | 18.38 | 17.37 |
| | | 1710.7 (131979) | 19.36 | 18.31 | 17.38 |
| | 6RB (0) | 1779.3 (132665) | 18.57 | 17.64 | 16.44 |
| | | 1745 (132322) | 18.34 | 17.39 | 16.3 |
| | | 1710.7 (131979) | 18.31 | 17.39 | 16.29 |
| 3MHz | 1RB-High (14) | 1778.5 (132657) | 19.49 | 18.79 | 17.7 |
| | | 1745 (132322) | 19.26 | 18.58 | 17.51 |
| | | 1711.5 (131987) | 19.32 | 18.65 | 17.48 |
| | 1RB-Middle (7) | 1778.5 (132657) | 19.49 | 18.87 | 17.7 |
| | | 1745 (132322) | 19.38 | 18.58 | 17.52 |
| | | 1711.5 (131987) | 19.34 | 18.56 | 17.54 |
| | 1RB-Low (0) | 1778.5 (132657) | 19.51 | 18.83 | 17.7 |
| | | 1745 (132322) | 19.34 | 18.58 | 17.39 |
| | | 1711.5 (131987) | 19.3 | 18.64 | 17.51 |
| | 8RB-High (7) | 1778.5 (132657) | 18.52 | 17.59 | 16.57 |
| | | 1745 (132322) | 18.3 | 17.37 | 16.41 |
| | | 1711.5 (131987) | 18.28 | 17.33 | 16.31 |
| | 8RB-Middle (4) | 1778.5 (132657) | 18.5 | 17.55 | 16.53 |
| | | 1745 (132322) | 18.3 | 17.34 | 16.34 |
| | | 1711.5 (131987) | 18.29 | 17.32 | 16.29 |
| | 8RB-Low (0) | 1778.5 (132657) | 18.56 | 17.61 | 16.59 |
| | | 1745 (132322) | 18.32 | 17.36 | 16.39 |
| | | 1711.5 (131987) | 18.31 | 17.35 | 16.38 |
| | 15RB (0) | 1778.5 (132657) | 18.53 | 17.56 | 16.57 |
| | | 1745 (132322) | 18.3 | 17.33 | 16.35 |
| | | 1711.5 (131987) | 18.28 | 17.32 | 16.27 |

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| 5MHz | 1RB-High (24) | 1777.5 (132647) | 19.5 | 18.85 | 17.63 |
| | | 1745 (132322) | 19.33 | 18.59 | 17.47 |
| | | 1712.5 (131997) | 19.33 | 18.7 | 17.46 |
| | 1RB-Middle (12) | 1777.5 (132647) | 19.57 | 18.87 | 17.77 |
| | | 1745 (132322) | 19.37 | 18.61 | 17.55 |
| | | 1712.5 (131997) | 19.31 | 18.59 | 17.49 |
| | 1RB-Low (0) | 1777.5 (132647) | 19.54 | 18.86 | 17.77 |
| | | 1745 (132322) | 19.36 | 18.71 | 17.55 |
| | | 1712.5 (131997) | 19.33 | 18.64 | 17.5 |
| | 12RB-High (13) | 1777.5 (132647) | 18.5 | 17.49 | 16.58 |
| | | 1745 (132322) | 18.31 | 17.26 | 16.36 |
| | | 1712.5 (131997) | 18.32 | 17.28 | 16.33 |
| | 12RB-Middle (6) | 1777.5 (132647) | 18.57 | 17.53 | 16.62 |
| | | 1745 (132322) | 18.38 | 17.3 | 16.4 |
| | | 1712.5 (131997) | 18.26 | 17.27 | 16.36 |
| | 12RB-Low (0) | 1777.5 (132647) | 18.59 | 17.61 | 16.64 |
| | | 1745 (132322) | 18.42 | 17.3 | 16.37 |
| | | 1712.5 (131997) | 18.31 | 17.32 | 16.31 |
| | 25RB (0) | 1777.5 (132647) | 18.6 | 17.54 | 16.59 |
| | | 1745 (132322) | 18.38 | 17.36 | 16.36 |
| | | 1712.5 (131997) | 18.33 | 17.28 | 16.33 |
| 10MHz | 1RB-High (49) | 1775 (132622) | 19.54 | 18.87 | 17.74 |
| | | 1745 (132322) | 19.3 | 18.69 | 17.5 |
| | | 1715 (132022) | 19.25 | 18.61 | 17.42 |
| | 1RB-Middle (24) | 1775 (132622) | 19.52 | 18.9 | 17.71 |
| | | 1745 (132322) | 19.34 | 18.63 | 17.55 |
| | | 1715 (132022) | 19.35 | 18.64 | 17.51 |
| | 1RB-Low (0) | 1775 (132622) | 19.44 | 18.67 | 17.62 |
| | | 1745 (132322) | 19.36 | 18.7 | 17.48 |
| | | 1715 (132022) | 19.28 | 18.67 | 17.46 |
| | 25RB-High (25) | 1775 (132622) | 18.54 | 17.55 | 16.55 |
| | | 1745 (132322) | 18.29 | 17.32 | 16.35 |
| | | 1715 (132022) | 18.29 | 17.26 | 16.28 |
| | 25RB-Middle (12) | 1775 (132622) | 18.53 | 17.56 | 16.57 |
| | | 1745 (132322) | 18.37 | 17.35 | 16.38 |
| | | 1715 (132022) | 18.29 | 17.28 | 16.27 |
| | 25RB-Low (0) | 1775 (132622) | 18.57 | 17.61 | 16.62 |
| | | 1745 (132322) | 18.32 | 17.36 | 16.4 |
| | | 1715 (132022) | 18.25 | 17.24 | 16.3 |
| | 50RB (0) | 1775 (132622) | 18.59 | 17.58 | 16.6 |
| | | 1745 (132322) | 18.39 | 17.36 | 16.33 |
| | | 1715 (132022) | 18.3 | 17.24 | 16.33 |

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|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 1772.5 (132597) | 19.19 | 18.75 | 17.65 |
| | | 1745 (132322) | 19.18 | 18.59 | 17.41 |
| | | 1717.5 (132047) | 19.2 | 18.51 | 17.26 |
| | 1RB-Middle (37) | 1772.5 (132597) | 19.27 | 18.87 | 17.56 |
| | | 1745 (132322) | 19.3 | 18.64 | 17.53 |
| | | 1717.5 (132047) | 19.22 | 18.58 | 17.32 |
| | 1RB-Low (0) | 1772.5 (132597) | 19.21 | 18.58 | 17.52 |
| | | 1745 (132322) | 19.19 | 18.5 | 17.47 |
| | | 1717.5 (132047) | 19.24 | 18.49 | 17.37 |
| | 36RB-High (38) | 1772.5 (132597) | 18.26 | 17.42 | 16.45 |
| | | 1745 (132322) | 18.2 | 17.26 | 16.26 |
| | | 1717.5 (132047) | 18.19 | 17.23 | 16.28 |
| | 36RB-Middle (19) | 1772.5 (132597) | 18.3 | 17.45 | 16.53 |
| | | 1745 (132322) | 18.28 | 17.3 | 16.33 |
| | | 1717.5 (132047) | 18.23 | 17.26 | 16.27 |
| | 36RB-Low (0) | 1772.5 (132597) | 18.3 | 17.48 | 16.48 |
| | | 1745 (132322) | 18.28 | 17.28 | 16.39 |
| | | 1717.5 (132047) | 18.16 | 17.21 | 16.28 |
| | 75RB (0) | 1772.5 (132597) | 18.33 | 17.41 | 16.46 |
| | | 1745 (132322) | 18.31 | 17.28 | 16.31 |
| | | 1717.5 (132047) | 18.24 | 17.18 | 16.26 |
| 20MHz | 1RB-High (99) | 1770 (132572) | 19.42 | 18.83 | 17.58 |
| | | 1745 (132322) | 19.25 | 18.67 | 17.38 |
| | | 1720 (132072) | 19.25 | 18.48 | 17.4 |
| | 1RB-Middle (50) | 1770 (132572) | 19.45 | 18.78 | 17.63 |
| | | 1745 (132322) | 19.39 | 18.6 | 17.53 |
| | | 1720 (132072) | 19.29 | 18.54 | 17.4 |
| | 1RB-Low (0) | 1770 (132572) | 19.33 | 18.54 | 17.52 |
| | | 1745 (132322) | 19.28 | 18.49 | 17.41 |
| | | 1720 (132072) | 19.25 | 18.64 | 17.4 |
| | 50RB-High (50) | 1770 (132572) | 18.45 | 17.47 | 16.49 |
| | | 1745 (132322) | 18.31 | 17.28 | 16.32 |
| | | 1720 (132072) | 18.29 | 17.25 | 16.29 |
| | 50RB-Middle (25) | 1770 (132572) | 18.48 | 17.5 | 16.53 |
| | | 1745 (132322) | 18.36 | 17.4 | 16.43 |
| | | 1720 (132072) | 18.35 | 17.33 | 16.3 |
| | 50RB-Low (0) | 1770 (132572) | 18.47 | 17.48 | 16.48 |
| | | 1745 (132322) | 18.39 | 17.35 | 16.37 |
| | | 1720 (132072) | 18.29 | 17.25 | 16.28 |
| | 100RB (0) | 1770 (132572) | 18.42 | 17.4 | 16.44 |
| | | 1745 (132322) | 18.35 | 17.3 | 16.34 |
| | | 1720 (132072) | 18.28 | 17.26 | 16.24 |

| LTE Band66-Power Level E1 | | | | | |
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| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 1.4MHz | 1RB-High (5) | 1779.3 (132665) | 21.62 | 20.94 | 19.75 |
| | | 1745 (132322) | 21.47 | 20.70 | 19.60 |
| | | 1710.7 (131979) | 21.43 | 20.76 | 19.57 |
| | 1RB-Middle (3) | 1779.3 (132665) | 21.64 | 20.88 | 19.78 |
| | | 1745 (132322) | 21.44 | 20.69 | 19.61 |
| | | 1710.7 (131979) | 21.43 | 20.66 | 19.54 |
| | 1RB-Low (0) | 1779.3 (132665) | 21.61 | 20.88 | 19.79 |
| | | 1745 (132322) | 21.46 | 20.68 | 19.62 |
| | | 1710.7 (131979) | 21.44 | 20.76 | 19.50 |
| | 3RB-High (3) | 1779.3 (132665) | 21.65 | 20.61 | 19.75 |
| | | 1745 (132322) | 21.46 | 20.36 | 19.45 |
| | | 1710.7 (131979) | 21.46 | 20.44 | 19.44 |
| | 3RB-Middle (1) | 1779.3 (132665) | 21.66 | 20.67 | 19.76 |
| | | 1745 (132322) | 21.49 | 20.38 | 19.55 |
| | | 1710.7 (131979) | 21.45 | 20.42 | 19.46 |
| | 3RB-Low (0) | 1779.3 (132665) | 21.68 | 20.57 | 19.72 |
| | | 1745 (132322) | 21.47 | 20.39 | 19.54 |
| | | 1710.7 (131979) | 21.44 | 20.40 | 19.53 |
| | 6RB (0) | 1779.3 (132665) | 20.66 | 19.70 | 18.54 |
| | | 1745 (132322) | 20.47 | 19.53 | 18.36 |
| | | 1710.7 (131979) | 20.41 | 19.54 | 18.38 |
| 3MHz | 1RB-High (14) | 1778.5 (132657) | 21.62 | 20.82 | 19.74 |
| | | 1745 (132322) | 21.43 | 20.69 | 19.60 |
| | | 1711.5 (131987) | 21.41 | 20.69 | 19.65 |
| | 1RB-Middle (7) | 1778.5 (132657) | 21.65 | 20.97 | 19.79 |
| | | 1745 (132322) | 21.49 | 20.70 | 19.69 |
| | | 1711.5 (131987) | 21.46 | 20.73 | 19.56 |
| | 1RB-Low (0) | 1778.5 (132657) | 21.59 | 20.90 | 19.73 |
| | | 1745 (132322) | 21.44 | 20.69 | 19.66 |
| | | 1711.5 (131987) | 21.42 | 20.66 | 19.60 |
| | 8RB-High (7) | 1778.5 (132657) | 20.60 | 19.69 | 18.64 |
| | | 1745 (132322) | 20.40 | 19.44 | 18.36 |
| | | 1711.5 (131987) | 20.42 | 19.46 | 18.40 |
| | 8RB-Middle (4) | 1778.5 (132657) | 20.60 | 19.65 | 18.60 |
| | | 1745 (132322) | 20.44 | 19.51 | 18.41 |
| | | 1711.5 (131987) | 20.40 | 19.45 | 18.42 |
| | 8RB-Low (0) | 1778.5 (132657) | 20.65 | 19.67 | 18.59 |
| | | 1745 (132322) | 20.45 | 19.53 | 18.41 |
| | | 1711.5 (131987) | 20.41 | 19.45 | 18.41 |
| | 15RB (0) | 1778.5 (132657) | 20.64 | 19.65 | 18.59 |
| | | 1745 (132322) | 20.41 | 19.42 | 18.32 |
| | | 1711.5 (131987) | 20.43 | 19.40 | 18.38 |

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| 5MHz | 1RB-High (24) | 1777.5 (132647) | 21.67 | 20.89 | 19.82 |
| | | 1745 (132322) | 21.46 | 20.75 | 19.50 |
| | | 1712.5 (131997) | 21.49 | 20.72 | 19.53 |
| | 1RB-Middle (12) | 1777.5 (132647) | 21.69 | 20.97 | 19.81 |
| | | 1745 (132322) | 21.43 | 20.88 | 19.68 |
| | | 1712.5 (131997) | 21.46 | 20.73 | 19.57 |
| | 1RB-Low (0) | 1777.5 (132647) | 21.59 | 20.86 | 19.70 |
| | | 1745 (132322) | 21.53 | 20.76 | 19.60 |
| | | 1712.5 (131997) | 21.47 | 20.69 | 19.57 |
| | 12RB-High (13) | 1777.5 (132647) | 20.63 | 19.60 | 18.61 |
| | | 1745 (132322) | 20.40 | 19.32 | 18.36 |
| | | 1712.5 (131997) | 20.44 | 19.41 | 18.38 |
| | 12RB-Middle (6) | 1777.5 (132647) | 20.65 | 19.59 | 18.61 |
| | | 1745 (132322) | 20.49 | 19.43 | 18.41 |
| | | 1712.5 (131997) | 20.41 | 19.42 | 18.41 |
| | 12RB-Low (0) | 1777.5 (132647) | 20.67 | 19.64 | 18.66 |
| | | 1745 (132322) | 20.51 | 19.45 | 18.51 |
| | | 1712.5 (131997) | 20.39 | 19.43 | 18.41 |
| | 25RB (0) | 1777.5 (132647) | 20.66 | 19.63 | 18.61 |
| | | 1745 (132322) | 20.44 | 19.45 | 18.38 |
| | | 1712.5 (131997) | 20.42 | 19.38 | 18.39 |
| 10MHz | 1RB-High (49) | 1775 (132622) | 21.66 | 20.88 | 19.76 |
| | | 1745 (132322) | 21.44 | 20.73 | 19.57 |
| | | 1715 (132022) | 21.47 | 20.72 | 19.61 |
| | 1RB-Middle (24) | 1775 (132622) | 21.61 | 20.83 | 19.80 |
| | | 1745 (132322) | 21.50 | 20.80 | 19.63 |
| | | 1715 (132022) | 21.46 | 20.65 | 19.56 |
| | 1RB-Low (0) | 1775 (132622) | 21.59 | 20.86 | 19.69 |
| | | 1745 (132322) | 21.51 | 20.75 | 19.64 |
| | | 1715 (132022) | 21.45 | 20.73 | 19.61 |
| | 25RB-High (25) | 1775 (132622) | 20.63 | 19.57 | 18.55 |
| | | 1745 (132322) | 20.43 | 19.47 | 18.41 |
| | | 1715 (132022) | 20.43 | 19.44 | 18.40 |
| | 25RB-Middle (12) | 1775 (132622) | 20.61 | 19.58 | 18.57 |
| | | 1745 (132322) | 20.48 | 19.52 | 18.48 |
| | | 1715 (132022) | 20.48 | 19.49 | 18.46 |
| | 25RB-Low (0) | 1775 (132622) | 20.68 | 19.67 | 18.67 |
| | | 1745 (132322) | 20.49 | 19.51 | 18.48 |
| | | 1715 (132022) | 20.35 | 19.36 | 18.33 |
| | 50RB (0) | 1775 (132622) | 20.66 | 19.67 | 18.66 |
| | | 1745 (132322) | 20.46 | 19.46 | 18.47 |
| | | 1715 (132022) | 20.44 | 19.39 | 18.38 |

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| 15MHz | 1RB-High (74) | 1772.5 (132597) | 21.58 | 20.85 | 19.69 |
| | | 1745 (132322) | 21.35 | 20.61 | 19.53 |
| | | 1717.5 (132047) | 21.38 | 20.64 | 19.50 |
| | 1RB-Middle (37) | 1772.5 (132597) | 21.58 | 20.91 | 19.67 |
| | | 1745 (132322) | 21.47 | 20.78 | 19.65 |
| | | 1717.5 (132047) | 21.42 | 20.58 | 19.53 |
| | 1RB-Low (0) | 1772.5 (132597) | 21.46 | 20.81 | 19.59 |
| | | 1745 (132322) | 21.42 | 20.61 | 19.54 |
| | | 1717.5 (132047) | 21.38 | 20.57 | 19.45 |
| | 36RB-High (38) | 1772.5 (132597) | 20.49 | 19.51 | 18.55 |
| | | 1745 (132322) | 20.35 | 19.34 | 18.33 |
| | | 1717.5 (132047) | 20.34 | 19.41 | 18.34 |
| | 36RB-Middle (19) | 1772.5 (132597) | 20.53 | 19.49 | 18.51 |
| | | 1745 (132322) | 20.43 | 19.39 | 18.44 |
| | | 1717.5 (132047) | 20.42 | 19.34 | 18.38 |
| | 36RB-Low (0) | 1772.5 (132597) | 20.52 | 19.51 | 18.51 |
| | | 1745 (132322) | 20.43 | 19.41 | 18.46 |
| | | 1717.5 (132047) | 20.30 | 19.35 | 18.35 |
| | 75RB (0) | 1772.5 (132597) | 20.52 | 19.52 | 18.47 |
| | | 1745 (132322) | 20.43 | 19.47 | 18.37 |
| | | 1717.5 (132047) | 20.38 | 19.38 | 18.33 |
| 20MHz | 1RB-High (99) | 1770 (132572) | 21.62 | 20.82 | 19.72 |
| | | 1745 (132322) | 21.45 | 20.76 | 19.63 |
| | | 1720 (132072) | 21.43 | 20.69 | 19.45 |
| | 1RB-Middle (50) | 1770 (132572) | 21.62 | 20.77 | 19.65 |
| | | 1745 (132322) | 21.51 | 20.80 | 19.71 |
| | | 1720 (132072) | 21.48 | 20.68 | 19.61 |
| | 1RB-Low (0) | 1770 (132572) | 21.46 | 20.76 | 19.55 |
| | | 1745 (132322) | 21.43 | 20.66 | 19.51 |
| | | 1720 (132072) | 21.39 | 20.75 | 19.49 |
| | 50RB-High (50) | 1770 (132572) | 20.47 | 19.48 | 18.45 |
| | | 1745 (132322) | 20.37 | 19.44 | 18.37 |
| | | 1720 (132072) | 20.47 | 19.40 | 18.41 |
| | 50RB-Middle (25) | 1770 (132572) | 20.59 | 19.58 | 18.59 |
| | | 1745 (132322) | 20.53 | 19.51 | 18.51 |
| | | 1720 (132072) | 20.49 | 19.48 | 18.39 |
| | 50RB-Low (0) | 1770 (132572) | 20.52 | 19.54 | 18.54 |
| | | 1745 (132322) | 20.47 | 19.49 | 18.45 |
| | | 1720 (132072) | 20.45 | 19.40 | 18.38 |
| | 100RB (0) | 1770 (132572) | 20.53 | 19.50 | 18.46 |
| | | 1745 (132322) | 20.45 | 19.39 | 18.37 |
| | | 1720 (132072) | 20.44 | 19.37 | 18.37 |

| LTE Band66-Power Level F2 | | | | | |
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| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 1.4MHz | 1RB-High (5) | 1779.3 (132665) | 17.26 | 16.92 | 15.62 |
| | | 1745 (132322) | 17.32 | 16.57 | 15.25 |
| | | 1710.7 (131979) | 17.21 | 16.66 | 15.5 |
| | 1RB-Middle (3) | 1779.3 (132665) | 17.6 | 16.96 | 15.79 |
| | | 1745 (132322) | 17.27 | 16.73 | 15.45 |
| | | 1710.7 (131979) | 17.12 | 16.79 | 15.44 |
| | 1RB-Low (0) | 1779.3 (132665) | 17.37 | 16.68 | 15.54 |
| | | 1745 (132322) | 17.26 | 16.84 | 15.5 |
| | | 1710.7 (131979) | 17.21 | 16.47 | 15.4 |
| | 3RB-High (3) | 1779.3 (132665) | 16.37 | 15.55 | 14.34 |
| | | 1745 (132322) | 16.18 | 15.31 | 14.35 |
| | | 1710.7 (131979) | 16.29 | 15.46 | 14.43 |
| | 3RB-Middle (1) | 1779.3 (132665) | 16.45 | 15.56 | 14.58 |
| | | 1745 (132322) | 16.56 | 15.52 | 14.42 |
| | | 1710.7 (131979) | 16.43 | 15.51 | 14.26 |
| | 3RB-Low (0) | 1779.3 (132665) | 16.64 | 15.48 | 14.59 |
| | | 1745 (132322) | 16.24 | 15.44 | 14.42 |
| | | 1710.7 (131979) | 16.51 | 15.36 | 14.26 |
| | 6RB (0) | 1779.3 (132665) | 16.4 | 15.61 | 14.47 |
| | | 1745 (132322) | 16.47 | 15.24 | 14.19 |
| | | 1710.7 (131979) | 16.4 | 15.26 | 14.26 |
| 3MHz | 1RB-High (14) | 1778.5 (132657) | 17.44 | 16.85 | 15.81 |
| | | 1745 (132322) | 17.21 | 16.6 | 15.48 |
| | | 1711.5 (131987) | 17.13 | 16.56 | 15.5 |
| | 1RB-Middle (7) | 1778.5 (132657) | 17.36 | 16.68 | 15.77 |
| | | 1745 (132322) | 17.23 | 16.87 | 15.53 |
| | | 1711.5 (131987) | 17.09 | 16.69 | 15.63 |
| | 1RB-Low (0) | 1778.5 (132657) | 17.35 | 16.68 | 15.48 |
| | | 1745 (132322) | 17.29 | 16.78 | 15.61 |
| | | 1711.5 (131987) | 17.13 | 16.52 | 15.37 |
| | 8RB-High (7) | 1778.5 (132657) | 16.49 | 15.44 | 14.42 |
| | | 1745 (132322) | 16.37 | 15.24 | 14.32 |
| | | 1711.5 (131987) | 16.33 | 15.33 | 14.25 |
| | 8RB-Middle (4) | 1778.5 (132657) | 16.58 | 15.68 | 14.59 |
| | | 1745 (132322) | 16.27 | 15.46 | 14.35 |
| | | 1711.5 (131987) | 16.37 | 15.23 | 14.36 |
| | 8RB-Low (0) | 1778.5 (132657) | 16.47 | 15.37 | 14.36 |
| | | 1745 (132322) | 16.42 | 15.59 | 14.24 |
| | | 1711.5 (131987) | 16.28 | 15.33 | 14.25 |
| | 15RB (0) | 1778.5 (132657) | 16.67 | 15.51 | 14.43 |
| | | 1745 (132322) | 16.35 | 15.43 | 14.3 |
| | | 1711.5 (131987) | 16.37 | 15.22 | 14.14 |

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| 5MHz | 1RB-High (24) | 1777.5 (132647) | 17.27 | 16.92 | 15.64 |
| | | 1745 (132322) | 17.35 | 16.75 | 15.53 |
| | | 1712.5 (131997) | 17.34 | 16.71 | 15.29 |
| | 1RB-Middle (12) | 1777.5 (132647) | 17.65 | 16.75 | 15.6 |
| | | 1745 (132322) | 17.47 | 16.91 | 15.64 |
| | | 1712.5 (131997) | 17.12 | 16.59 | 15.36 |
| | 1RB-Low (0) | 1777.5 (132647) | 17.14 | 16.66 | 15.46 |
| | | 1745 (132322) | 17.25 | 16.64 | 15.61 |
| | | 1712.5 (131997) | 17.16 | 16.55 | 15.4 |
| | 12RB-High (13) | 1777.5 (132647) | 16.46 | 15.46 | 14.29 |
| | | 1745 (132322) | 16.32 | 15.21 | 14.43 |
| | | 1712.5 (131997) | 16.2 | 15.3 | 14.27 |
| | 12RB-Middle (6) | 1777.5 (132647) | 16.62 | 15.57 | 14.56 |
| | | 1745 (132322) | 16.31 | 15.48 | 14.48 |
| | | 1712.5 (131997) | 16.4 | 15.27 | 14.28 |
| | 12RB-Low (0) | 1777.5 (132647) | 16.38 | 15.62 | 14.56 |
| | | 1745 (132322) | 16.38 | 15.51 | 14.2 |
| | | 1712.5 (131997) | 16.42 | 15.32 | 14.31 |
| | 25RB (0) | 1777.5 (132647) | 16.65 | 15.61 | 14.58 |
| | | 1745 (132322) | 16.31 | 15.45 | 14.21 |
| | | 1712.5 (131997) | 16.52 | 15.21 | 14.25 |
| 10MHz | 1RB-High (49) | 1775 (132622) | 17.27 | 16.9 | 15.86 |
| | | 1745 (132322) | 17.36 | 16.77 | 15.45 |
| | | 1715 (132022) | 17.21 | 16.74 | 15.23 |
| | 1RB-Middle (24) | 1775 (132622) | 17.38 | 16.9 | 15.76 |
| | | 1745 (132322) | 17.22 | 16.83 | 15.64 |
| | | 1715 (132022) | 17.24 | 16.77 | 15.33 |
| | 1RB-Low (0) | 1775 (132622) | 17.16 | 16.72 | 15.72 |
| | | 1745 (132322) | 17.32 | 16.63 | 15.57 |
| | | 1715 (132022) | 17.23 | 16.63 | 15.57 |
| | 25RB-High (25) | 1775 (132622) | 16.37 | 15.63 | 14.48 |
| | | 1745 (132322) | 16.38 | 15.43 | 14.19 |
| | | 1715 (132022) | 16.31 | 15.23 | 14.31 |
| | 25RB-Middle (12) | 1775 (132622) | 16.6 | 15.68 | 14.46 |
| | | 1745 (132322) | 16.26 | 15.51 | 14.25 |
| | | 1715 (132022) | 16.45 | 15.39 | 14.49 |
| | 25RB-Low (0) | 1775 (132622) | 16.6 | 15.42 | 14.41 |
| | | 1745 (132322) | 16.5 | 15.48 | 14.46 |
| | | 1715 (132022) | 16.38 | 15.19 | 14.15 |
| | 50RB (0) | 1775 (132622) | 16.44 | 15.48 | 14.57 |
| | | 1745 (132322) | 16.33 | 15.43 | 14.34 |
| | | 1715 (132022) | 16.23 | 15.39 | 14.17 |

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| 15MHz | 1RB-High (74) | 1772.5 (132597) | 17.36 | 16.86 | 15.72 |
| | | 1745 (132322) | 17.34 | 16.57 | 15.45 |
| | | 1717.5 (132047) | 17.14 | 16.81 | 15.46 |
| | 1RB-Middle (37) | 1772.5 (132597) | 17.53 | 16.84 | 15.68 |
| | | 1745 (132322) | 17.41 | 16.84 | 15.59 |
| | | 1717.5 (132047) | 17.36 | 16.64 | 15.59 |
| | 1RB-Low (0) | 1772.5 (132597) | 17.42 | 16.69 | 15.55 |
| | | 1745 (132322) | 17.3 | 16.71 | 15.43 |
| | | 1717.5 (132047) | 17.26 | 16.59 | 15.52 |
| | 36RB-High (38) | 1772.5 (132597) | 16.44 | 15.6 | 14.34 |
| | | 1745 (132322) | 16.15 | 15.31 | 14.37 |
| | | 1717.5 (132047) | 16.48 | 15.44 | 14.28 |
| | 36RB-Middle (19) | 1772.5 (132597) | 16.69 | 15.67 | 14.71 |
| | | 1745 (132322) | 16.36 | 15.47 | 14.45 |
| | | 1717.5 (132047) | 16.31 | 15.5 | 14.25 |
| | 36RB-Low (0) | 1772.5 (132597) | 16.37 | 15.6 | 14.39 |
| | | 1745 (132322) | 16.24 | 15.37 | 14.35 |
| | | 1717.5 (132047) | 16.26 | 15.4 | 14.27 |
| | 75RB (0) | 1772.5 (132597) | 16.47 | 15.36 | 14.48 |
| | | 1745 (132322) | 16.55 | 15.32 | 14.29 |
| | | 1717.5 (132047) | 16.47 | 15.44 | 14.19 |
| 20MHz | 1RB-High (99) | 1770 (132572) | 17.38 | 16.88 | 15.74 |
| | | 1745 (132322) | 17.25 | 16.65 | 15.4 |
| | | 1720 (132072) | 17.24 | 16.66 | 15.38 |
| | 1RB-Middle (50) | 1770 (132572) | 17.51 | 16.81 | 15.68 |
| | | 1745 (132322) | 17.32 | 16.79 | 15.55 |
| | | 1720 (132072) | 17.24 | 16.68 | 15.48 |
| | 1RB-Low (0) | 1770 (132572) | 17.27 | 16.62 | 15.6 |
| | | 1745 (132322) | 17.21 | 16.7 | 15.5 |
| | | 1720 (132072) | 17.23 | 16.59 | 15.48 |
| | 50RB-High (50) | 1770 (132572) | 16.45 | 15.5 | 14.42 |
| | | 1745 (132322) | 16.29 | 15.32 | 14.31 |
| | | 1720 (132072) | 16.34 | 15.38 | 14.32 |
| | 50RB-Middle (25) | 1770 (132572) | 16.56 | 15.6 | 14.57 |
| | | 1745 (132322) | 16.41 | 15.42 | 14.39 |
| | | 1720 (132072) | 16.32 | 15.38 | 14.36 |
| | 50RB-Low (0) | 1770 (132572) | 16.5 | 15.51 | 14.47 |
| | | 1745 (132322) | 16.38 | 15.44 | 14.34 |
| | | 1720 (132072) | 16.38 | 15.3 | 14.27 |
| | 100RB (0) | 1770 (132572) | 16.53 | 15.49 | 14.45 |
| | | 1745 (132322) | 16.43 | 15.32 | 14.32 |
| | | 1720 (132072) | 16.37 | 15.29 | 14.25 |

| LTE Band66 ANT4-Power Level A1 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 1.4MHz | 1RB-High (5) | 1779.3 (132665) | 22.60 | 22.03 | 20.79 |
| | | 1745 (132322) | 22.81 | 22.12 | 20.94 |
| | | 1710.7 (131979) | 22.78 | 22.07 | 20.86 |
| | 1RB-Middle (3) | 1779.3 (132665) | 22.75 | 22.21 | 20.89 |
| | | 1745 (132322) | 22.80 | 22.06 | 21.08 |
| | | 1710.7 (131979) | 22.74 | 22.03 | 20.90 |
| | 1RB-Low (0) | 1779.3 (132665) | 22.82 | 22.08 | 20.92 |
| | | 1745 (132322) | 22.92 | 22.03 | 20.83 |
| | | 1710.7 (131979) | 23.04 | 21.96 | 20.91 |
| | 3RB-High (3) | 1779.3 (132665) | 22.59 | 21.73 | 20.72 |
| | | 1745 (132322) | 22.85 | 21.98 | 20.82 |
| | | 1710.7 (131979) | 22.81 | 21.98 | 20.75 |
| | 3RB-Middle (1) | 1779.3 (132665) | 22.68 | 21.97 | 20.97 |
| | | 1745 (132322) | 22.79 | 21.96 | 20.97 |
| | | 1710.7 (131979) | 22.98 | 21.86 | 20.86 |
| | 3RB-Low (0) | 1779.3 (132665) | 22.73 | 21.96 | 20.91 |
| | | 1745 (132322) | 22.89 | 21.95 | 21.06 |
| | | 1710.7 (131979) | 22.63 | 21.95 | 20.68 |
| | 6RB (0) | 1779.3 (132665) | 21.78 | 20.98 | 19.77 |
| | | 1745 (132322) | 21.78 | 21.02 | 19.79 |
| | | 1710.7 (131979) | 21.70 | 20.91 | 19.87 |
| 3MHz | 1RB-High (14) | 1778.5 (132657) | 22.51 | 21.85 | 20.92 |
| | | 1745 (132322) | 22.70 | 21.89 | 20.80 |
| | | 1711.5 (131987) | 22.75 | 21.98 | 20.87 |
| | 1RB-Middle (7) | 1778.5 (132657) | 22.72 | 22.03 | 21.00 |
| | | 1745 (132322) | 22.71 | 22.15 | 21.10 |
| | | 1711.5 (131987) | 22.78 | 22.21 | 20.92 |
| | 1RB-Low (0) | 1778.5 (132657) | 22.80 | 22.12 | 21.01 |
| | | 1745 (132322) | 23.00 | 22.15 | 20.91 |
| | | 1711.5 (131987) | 22.84 | 21.97 | 21.08 |
| | 8RB-High (7) | 1778.5 (132657) | 21.62 | 20.85 | 19.81 |
| | | 1745 (132322) | 21.73 | 20.90 | 19.72 |
| | | 1711.5 (131987) | 21.65 | 20.88 | 19.80 |
| | 8RB-Middle (4) | 1778.5 (132657) | 21.79 | 20.92 | 19.85 |
| | | 1745 (132322) | 21.85 | 20.99 | 19.99 |
| | | 1711.5 (131987) | 22.01 | 20.86 | 19.82 |
| | 8RB-Low (0) | 1778.5 (132657) | 21.74 | 20.85 | 19.88 |
| | | 1745 (132322) | 21.86 | 21.01 | 20.08 |
| | | 1711.5 (131987) | 21.78 | 20.81 | 19.80 |
| | 15RB (0) | 1778.5 (132657) | 21.60 | 20.94 | 19.88 |
| | | 1745 (132322) | 21.92 | 20.92 | 19.85 |
| | | 1711.5 (131987) | 21.72 | 20.89 | 19.88 |

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|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 1777.5 (132647) | 22.59 | 21.92 | 20.92 |
| | | 1745 (132322) | 22.69 | 22.12 | 20.87 |
| | | 1712.5 (131997) | 22.79 | 22.10 | 20.87 |
| | 1RB-Middle (12) | 1777.5 (132647) | 22.62 | 22.19 | 20.91 |
| | | 1745 (132322) | 22.88 | 22.01 | 21.20 |
| | | 1712.5 (131997) | 22.68 | 22.12 | 21.00 |
| | 1RB-Low (0) | 1777.5 (132647) | 22.72 | 22.12 | 21.03 |
| | | 1745 (132322) | 22.92 | 22.07 | 20.89 |
| | | 1712.5 (131997) | 22.92 | 22.06 | 21.09 |
| | 12RB-High (13) | 1777.5 (132647) | 21.62 | 20.95 | 19.65 |
| | | 1745 (132322) | 21.82 | 20.83 | 19.91 |
| | | 1712.5 (131997) | 21.81 | 20.97 | 19.90 |
| | 12RB-Middle (6) | 1777.5 (132647) | 21.83 | 20.96 | 19.79 |
| | | 1745 (132322) | 21.74 | 20.92 | 19.93 |
| | | 1712.5 (131997) | 21.94 | 21.02 | 19.96 |
| | 12RB-Low (0) | 1777.5 (132647) | 21.64 | 20.80 | 19.85 |
| | | 1745 (132322) | 21.76 | 21.05 | 19.88 |
| | | 1712.5 (131997) | 21.76 | 20.78 | 19.79 |
| | 25RB (0) | 1777.5 (132647) | 21.74 | 20.88 | 19.85 |
| | | 1745 (132322) | 21.87 | 20.92 | 19.98 |
| | | 1712.5 (131997) | 21.63 | 21.03 | 19.71 |
| 10MHz | 1RB-High (49) | 1775 (132622) | 22.52 | 22.04 | 20.71 |
| | | 1745 (132322) | 22.66 | 22.04 | 21.02 |
| | | 1715 (132022) | 22.78 | 21.91 | 20.89 |
| | 1RB-Middle (24) | 1775 (132622) | 22.72 | 22.10 | 21.10 |
| | | 1745 (132322) | 22.67 | 22.13 | 20.99 |
| | | 1715 (132022) | 22.71 | 22.03 | 20.94 |
| | 1RB-Low (0) | 1775 (132622) | 22.86 | 22.05 | 20.81 |
| | | 1745 (132322) | 22.83 | 22.14 | 21.05 |
| | | 1715 (132022) | 22.86 | 21.90 | 20.90 |
| | 25RB-High (25) | 1775 (132622) | 21.55 | 20.83 | 19.66 |
| | | 1745 (132322) | 21.78 | 20.92 | 19.86 |
| | | 1715 (132022) | 21.62 | 20.95 | 19.90 |
| | 25RB-Middle (12) | 1775 (132622) | 21.80 | 20.85 | 19.77 |
| | | 1745 (132322) | 21.93 | 20.94 | 19.85 |
| | | 1715 (132022) | 22.01 | 21.02 | 19.88 |
| | 25RB-Low (0) | 1775 (132622) | 21.79 | 20.79 | 19.77 |
| | | 1745 (132322) | 21.85 | 20.93 | 20.05 |
| | | 1715 (132022) | 21.65 | 20.84 | 19.79 |
| | 50RB (0) | 1775 (132622) | 21.55 | 20.79 | 19.82 |
| | | 1745 (132322) | 21.72 | 21.14 | 19.87 |
| | | 1715 (132022) | 21.87 | 21.04 | 19.87 |

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| 15MHz | 1RB-High (74) | 1772.5 (132597) | 22.68 | 22.03 | 20.81 |
| | | 1745 (132322) | 22.72 | 21.94 | 20.89 |
| | | 1717.5 (132047) | 22.72 | 22.07 | 21.04 |
| | 1RB-Middle (37) | 1772.5 (132597) | 22.86 | 22.25 | 21.03 |
| | | 1745 (132322) | 22.87 | 22.07 | 21.18 |
| | | 1717.5 (132047) | 22.67 | 22.22 | 20.95 |
| | 1RB-Low (0) | 1772.5 (132597) | 22.79 | 22.09 | 20.80 |
| | | 1745 (132322) | 22.85 | 22.13 | 20.88 |
| | | 1717.5 (132047) | 23.01 | 21.90 | 20.96 |
| | 36RB-High (38) | 1772.5 (132597) | 21.48 | 20.93 | 19.66 |
| | | 1745 (132322) | 21.76 | 20.85 | 19.97 |
| | | 1717.5 (132047) | 21.80 | 20.80 | 19.91 |
| | 36RB-Middle (19) | 1772.5 (132597) | 21.81 | 20.94 | 19.81 |
| | | 1745 (132322) | 21.78 | 20.90 | 19.91 |
| | | 1717.5 (132047) | 21.82 | 20.93 | 19.93 |
| | 36RB-Low (0) | 1772.5 (132597) | 21.57 | 20.98 | 19.80 |
| | | 1745 (132322) | 21.90 | 21.15 | 20.08 |
| | | 1717.5 (132047) | 21.76 | 20.81 | 19.76 |
| | 75RB (0) | 1772.5 (132597) | 21.64 | 21.02 | 19.65 |
| | | 1745 (132322) | 21.85 | 21.04 | 19.79 |
| | | 1717.5 (132047) | 21.79 | 20.93 | 19.79 |
| 20MHz | 1RB-High (99) | 1770 (132572) | 22.65 | 21.94 | 20.85 |
| | | 1745 (132322) | 22.77 | 22.04 | 20.93 |
| | | 1720 (132072) | 22.74 | 22.01 | 20.99 |
| | 1RB-Middle (50) | 1770 (132572) | 22.76 | 22.15 | 21.01 |
| | | 1745 (132322) | 22.79 | 22.16 | 21.12 |
| | | 1720 (132072) | 22.75 | 22.15 | 21.03 |
| | 1RB-Low (0) | 1770 (132572) | 22.87 | 22.03 | 20.93 |
| | | 1745 (132322) | 22.93 | 22.05 | 20.96 |
| | | 1720 (132072) | 22.98 | 22.02 | 20.99 |
| | 50RB-High (50) | 1770 (132572) | 21.62 | 20.85 | 19.75 |
| | | 1745 (132322) | 21.75 | 20.96 | 19.87 |
| | | 1720 (132072) | 21.74 | 20.94 | 19.89 |
| | 50RB-Middle (25) | 1770 (132572) | 21.77 | 20.99 | 19.92 |
| | | 1745 (132322) | 21.89 | 21.04 | 19.98 |
| | | 1720 (132072) | 21.91 | 20.99 | 19.95 |
| | 50RB-Low (0) | 1770 (132572) | 21.71 | 20.92 | 19.84 |
| | | 1745 (132322) | 21.84 | 21.07 | 20.03 |
| | | 1720 (132072) | 21.74 | 20.89 | 19.82 |
| | 100RB (0) | 1770 (132572) | 21.69 | 20.93 | 19.79 |
| | | 1745 (132322) | 21.82 | 21.04 | 19.92 |
| | | 1720 (132072) | 21.78 | 20.96 | 19.85 |

| LTE Band66 ANT4-Power Level B1/D1/F1 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 1.4MHz | 1RB-High (5) | 1779.3 (132665) | 15.56 | 15.69 | 15.60 |
| | | 1745 (132322) | 15.66 | 15.66 | 15.59 |
| | | 1710.7 (131979) | 15.72 | 15.67 | 15.57 |
| | 1RB-Middle (3) | 1779.3 (132665) | 15.42 | 15.85 | 15.73 |
| | | 1745 (132322) | 15.80 | 15.70 | 15.24 |
| | | 1710.7 (131979) | 15.81 | 15.97 | 15.50 |
| | 1RB-Low (0) | 1779.3 (132665) | 15.41 | 15.85 | 15.55 |
| | | 1745 (132322) | 15.37 | 15.59 | 15.63 |
| | | 1710.7 (131979) | 15.41 | 15.73 | 15.42 |
| | 3RB-High (3) | 1779.3 (132665) | 15.69 | 15.51 | 15.75 |
| | | 1745 (132322) | 15.77 | 15.66 | 15.75 |
| | | 1710.7 (131979) | 15.83 | 15.66 | 15.66 |
| | 3RB-Middle (1) | 1779.3 (132665) | 15.51 | 15.82 | 15.41 |
| | | 1745 (132322) | 15.79 | 15.66 | 15.88 |
| | | 1710.7 (131979) | 15.93 | 15.53 | 15.73 |
| | 3RB-Low (0) | 1779.3 (132665) | 15.61 | 15.75 | 15.64 |
| | | 1745 (132322) | 15.71 | 15.68 | 15.80 |
| | | 1710.7 (131979) | 15.55 | 15.78 | 15.69 |
| | 6RB (0) | 1779.3 (132665) | 15.68 | 15.74 | 15.53 |
| | | 1745 (132322) | 15.70 | 15.84 | 15.76 |
| | | 1710.7 (131979) | 15.91 | 15.82 | 15.70 |
| 3MHz | 1RB-High (14) | 1778.5 (132657) | 15.69 | 15.65 | 15.41 |
| | | 1745 (132322) | 15.72 | 15.81 | 15.53 |
| | | 1711.5 (131987) | 15.78 | 15.55 | 15.39 |
| | 1RB-Middle (7) | 1778.5 (132657) | 15.54 | 15.77 | 15.71 |
| | | 1745 (132322) | 15.81 | 15.65 | 15.34 |
| | | 1711.5 (131987) | 15.55 | 15.84 | 15.79 |
| | 1RB-Low (0) | 1778.5 (132657) | 15.59 | 15.70 | 15.33 |
| | | 1745 (132322) | 15.57 | 15.59 | 15.50 |
| | | 1711.5 (131987) | 15.46 | 15.71 | 15.49 |
| | 8RB-High (7) | 1778.5 (132657) | 15.52 | 15.42 | 15.75 |
| | | 1745 (132322) | 15.86 | 15.84 | 15.79 |
| | | 1711.5 (131987) | 15.86 | 15.73 | 15.82 |
| | 8RB-Middle (4) | 1778.5 (132657) | 15.67 | 15.64 | 15.41 |
| | | 1745 (132322) | 15.90 | 15.71 | 15.76 |
| | | 1711.5 (131987) | 15.75 | 15.48 | 15.88 |
| | 8RB-Low (0) | 1778.5 (132657) | 15.62 | 15.58 | 15.56 |
| | | 1745 (132322) | 15.43 | 15.77 | 15.83 |
| | | 1711.5 (131987) | 15.72 | 15.76 | 15.69 |
| | 15RB (0) | 1778.5 (132657) | 15.58 | 15.81 | 15.66 |
| | | 1745 (132322) | 15.68 | 15.64 | 15.96 |
| | | 1711.5 (131987) | 15.81 | 15.97 | 15.59 |

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| 5MHz | 1RB-High (24) | 1777.5 (132647) | 15.48 | 15.62 | 15.56 |
| | | 1745 (132322) | 15.67 | 15.71 | 15.50 |
| | | 1712.5 (131997) | 15.58 | 15.64 | 15.44 |
| | 1RB-Middle (12) | 1777.5 (132647) | 15.53 | 15.75 | 15.70 |
| | | 1745 (132322) | 15.75 | 15.75 | 15.38 |
| | | 1712.5 (131997) | 15.74 | 15.97 | 15.79 |
| | 1RB-Low (0) | 1777.5 (132647) | 15.48 | 15.88 | 15.39 |
| | | 1745 (132322) | 15.46 | 15.59 | 15.63 |
| | | 1712.5 (131997) | 15.29 | 15.93 | 15.45 |
| | 12RB-High (13) | 1777.5 (132647) | 15.61 | 15.62 | 15.77 |
| | | 1745 (132322) | 15.78 | 15.63 | 15.86 |
| | | 1712.5 (131997) | 15.78 | 15.57 | 15.65 |
| | 12RB-Middle (6) | 1777.5 (132647) | 15.46 | 15.76 | 15.56 |
| | | 1745 (132322) | 15.79 | 15.85 | 15.80 |
| | | 1712.5 (131997) | 15.93 | 15.69 | 15.68 |
| | 12RB-Low (0) | 1777.5 (132647) | 15.51 | 15.55 | 15.49 |
| | | 1745 (132322) | 15.66 | 15.83 | 15.81 |
| | | 1712.5 (131997) | 15.71 | 15.74 | 15.88 |
| | 25RB (0) | 1777.5 (132647) | 15.69 | 15.77 | 15.60 |
| | | 1745 (132322) | 15.50 | 15.77 | 15.68 |
| | | 1712.5 (131997) | 15.73 | 15.81 | 15.81 |
| 10MHz | 1RB-High (49) | 1775 (132622) | 15.46 | 15.76 | 15.62 |
| | | 1745 (132322) | 15.51 | 15.77 | 15.68 |
| | | 1715 (132022) | 15.71 | 15.58 | 15.37 |
| | 1RB-Middle (24) | 1775 (132622) | 15.38 | 15.94 | 15.57 |
| | | 1745 (132322) | 15.55 | 15.56 | 15.39 |
| | | 1715 (132022) | 15.79 | 16.03 | 15.61 |
| | 1RB-Low (0) | 1775 (132622) | 15.60 | 15.87 | 15.43 |
| | | 1745 (132322) | 15.48 | 15.68 | 15.54 |
| | | 1715 (132022) | 15.54 | 15.95 | 15.51 |
| | 25RB-High (25) | 1775 (132622) | 15.50 | 15.41 | 15.69 |
| | | 1745 (132322) | 15.71 | 15.67 | 15.84 |
| | | 1715 (132022) | 15.67 | 15.59 | 15.75 |
| | 25RB-Middle (12) | 1775 (132622) | 15.50 | 15.92 | 15.52 |
| | | 1745 (132322) | 15.84 | 15.84 | 15.74 |
| | | 1715 (132022) | 15.95 | 15.65 | 15.66 |
| | 25RB-Low (0) | 1775 (132622) | 15.67 | 15.62 | 15.62 |
| | | 1745 (132322) | 15.69 | 15.80 | 15.71 |
| | | 1715 (132022) | 15.63 | 15.99 | 15.78 |
| | 50RB (0) | 1775 (132622) | 15.61 | 15.65 | 15.43 |
| | | 1745 (132322) | 15.50 | 15.78 | 15.66 |
| | | 1715 (132022) | 15.73 | 15.91 | 15.58 |

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| 15MHz | 1RB-High (74) | 1772.5 (132597) | 15.48 | 15.77 | 15.41 |
| | | 1745 (132322) | 15.63 | 15.56 | 15.67 |
| | | 1717.5 (132047) | 15.68 | 15.76 | 15.42 |
| | 1RB-Middle (37) | 1772.5 (132597) | 15.43 | 15.81 | 15.66 |
| | | 1745 (132322) | 15.66 | 15.55 | 15.35 |
| | | 1717.5 (132047) | 15.62 | 15.82 | 15.79 |
| | 1RB-Low (0) | 1772.5 (132597) | 15.62 | 15.78 | 15.55 |
| | | 1745 (132322) | 15.50 | 15.54 | 15.76 |
| | | 1717.5 (132047) | 15.38 | 15.68 | 15.55 |
| | 36RB-High (38) | 1772.5 (132597) | 15.55 | 15.58 | 15.63 |
| | | 1745 (132322) | 15.64 | 15.60 | 15.80 |
| | | 1717.5 (132047) | 15.75 | 15.76 | 15.87 |
| | 36RB-Middle (19) | 1772.5 (132597) | 15.72 | 15.67 | 15.60 |
| | | 1745 (132322) | 15.87 | 15.82 | 15.83 |
| | | 1717.5 (132047) | 16.00 | 15.62 | 15.96 |
| | 36RB-Low (0) | 1772.5 (132597) | 15.74 | 15.69 | 15.58 |
| | | 1745 (132322) | 15.73 | 15.75 | 15.76 |
| | | 1717.5 (132047) | 15.74 | 15.97 | 15.88 |
| | 75RB (0) | 1772.5 (132597) | 15.67 | 15.80 | 15.70 |
| | | 1745 (132322) | 15.51 | 15.71 | 15.93 |
| | | 1717.5 (132047) | 15.98 | 15.92 | 15.61 |
| 20MHz | 1RB-High (99) | 1770 (132572) | 15.55 | 15.62 | 15.47 |
| | | 1745 (132322) | 15.59 | 15.70 | 15.65 |
| | | 1720 (132072) | 15.65 | 15.64 | 15.45 |
| | 1RB-Middle (50) | 1770 (132572) | 15.41 | 15.88 | 15.60 |
| | | 1745 (132322) | 15.67 | 15.65 | 15.39 |
| | | 1720 (132072) | 15.68 | 15.92 | 15.65 |
| | 1RB-Low (0) | 1770 (132572) | 15.56 | 15.77 | 15.48 |
| | | 1745 (132322) | 15.47 | 15.67 | 15.63 |
| | | 1720 (132072) | 15.42 | 15.83 | 15.47 |
| | 50RB-High (50) | 1770 (132572) | 15.59 | 15.54 | 15.71 |
| | | 1745 (132322) | 15.74 | 15.72 | 15.72 |
| | | 1720 (132072) | 15.71 | 15.64 | 15.74 |
| | 50RB-Middle (25) | 1770 (132572) | 15.60 | 15.78 | 15.52 |
| | | 1745 (132322) | 15.87 | 15.77 | 15.81 |
| | | 1720 (132072) | 15.89 | 15.62 | 15.81 |
| | 50RB-Low (0) | 1770 (132572) | 15.62 | 15.66 | 15.51 |
| | | 1745 (132322) | 15.58 | 15.77 | 15.79 |
| | | 1720 (132072) | 15.63 | 15.86 | 15.74 |
| | 100RB (0) | 1770 (132572) | 15.56 | 15.66 | 15.55 |
| | | 1745 (132322) | 15.56 | 15.69 | 15.81 |
| | | 1720 (132072) | 15.84 | 15.85 | 15.66 |

| LTE Band66 ANT4-Power Level C1 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 1.4MHz | 1RB-High (5) | 1779.3 (132665) | 18.20 | 18.48 | 18.45 |
| | | 1745 (132322) | 18.09 | 18.63 | 18.57 |
| | | 1710.7 (131979) | 18.04 | 18.53 | 18.33 |
| | 1RB-Middle (3) | 1779.3 (132665) | 18.19 | 18.44 | 18.52 |
| | | 1745 (132322) | 18.01 | 18.51 | 18.43 |
| | | 1710.7 (131979) | 18.18 | 18.71 | 18.58 |
| | 1RB-Low (0) | 1779.3 (132665) | 18.07 | 18.69 | 18.50 |
| | | 1745 (132322) | 18.22 | 18.55 | 18.40 |
| | | 1710.7 (131979) | 18.20 | 18.58 | 18.48 |
| | 3RB-High (3) | 1779.3 (132665) | 18.22 | 18.41 | 18.16 |
| | | 1745 (132322) | 18.20 | 18.57 | 18.56 |
| | | 1710.7 (131979) | 18.23 | 18.69 | 18.48 |
| | 3RB-Middle (1) | 1779.3 (132665) | 18.05 | 18.57 | 18.11 |
| | | 1745 (132322) | 18.00 | 18.70 | 18.61 |
| | | 1710.7 (131979) | 18.31 | 18.62 | 18.44 |
| | 3RB-Low (0) | 1779.3 (132665) | 18.30 | 18.47 | 18.47 |
| | | 1745 (132322) | 18.35 | 18.32 | 18.36 |
| | | 1710.7 (131979) | 18.14 | 18.47 | 18.25 |
| | 6RB (0) | 1779.3 (132665) | 18.13 | 18.55 | 18.42 |
| | | 1745 (132322) | 18.28 | 18.58 | 18.41 |
| | | 1710.7 (131979) | 18.29 | 18.47 | 18.26 |
| 3MHz | 1RB-High (14) | 1778.5 (132657) | 18.08 | 18.50 | 18.38 |
| | | 1745 (132322) | 18.07 | 18.51 | 18.55 |
| | | 1711.5 (131987) | 18.23 | 18.44 | 18.32 |
| | 1RB-Middle (7) | 1778.5 (132657) | 18.12 | 18.30 | 18.38 |
| | | 1745 (132322) | 18.19 | 18.50 | 18.21 |
| | | 1711.5 (131987) | 18.38 | 18.60 | 18.41 |
| | 1RB-Low (0) | 1778.5 (132657) | 18.02 | 18.69 | 18.51 |
| | | 1745 (132322) | 18.12 | 18.34 | 18.49 |
| | | 1711.5 (131987) | 18.34 | 18.53 | 18.61 |
| | 8RB-High (7) | 1778.5 (132657) | 17.97 | 18.66 | 18.12 |
| | | 1745 (132322) | 18.18 | 18.67 | 18.43 |
| | | 1711.5 (131987) | 18.19 | 18.59 | 18.56 |
| | 8RB-Middle (4) | 1778.5 (132657) | 18.17 | 18.34 | 18.19 |
| | | 1745 (132322) | 18.16 | 18.54 | 18.51 |
| | | 1711.5 (131987) | 18.26 | 18.42 | 18.20 |
| | 8RB-Low (0) | 1778.5 (132657) | 18.10 | 18.50 | 18.53 |
| | | 1745 (132322) | 18.21 | 18.32 | 18.48 |
| | | 1711.5 (131987) | 18.34 | 18.51 | 18.34 |
| | 15RB (0) | 1778.5 (132657) | 18.05 | 18.41 | 18.46 |
| | | 1745 (132322) | 18.37 | 18.33 | 18.23 |
| | | 1711.5 (131987) | 18.39 | 18.63 | 18.42 |

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| 5MHz | 1RB-High (24) | 1777.5 (132647) | 18.20 | 18.33 | 18.24 |
| | | 1745 (132322) | 18.11 | 18.54 | 18.45 |
| | | 1712.5 (131997) | 18.02 | 18.31 | 18.33 |
| | 1RB-Middle (12) | 1777.5 (132647) | 18.07 | 18.52 | 18.59 |
| | | 1745 (132322) | 18.01 | 18.60 | 18.22 |
| | | 1712.5 (131997) | 18.16 | 18.69 | 18.56 |
| | 1RB-Low (0) | 1777.5 (132647) | 18.15 | 18.69 | 18.49 |
| | | 1745 (132322) | 18.13 | 18.52 | 18.50 |
| | | 1712.5 (131997) | 18.32 | 18.40 | 18.42 |
| | 12RB-High (13) | 1777.5 (132647) | 18.18 | 18.40 | 18.20 |
| | | 1745 (132322) | 18.10 | 18.71 | 18.49 |
| | | 1712.5 (131997) | 18.20 | 18.53 | 18.53 |
| | 12RB-Middle (6) | 1777.5 (132647) | 18.11 | 18.48 | 18.32 |
| | | 1745 (132322) | 18.15 | 18.49 | 18.43 |
| | | 1712.5 (131997) | 18.33 | 18.36 | 18.46 |
| | 12RB-Low (0) | 1777.5 (132647) | 18.35 | 18.61 | 18.42 |
| | | 1745 (132322) | 18.25 | 18.30 | 18.47 |
| | | 1712.5 (131997) | 18.07 | 18.56 | 18.26 |
| | 25RB (0) | 1777.5 (132647) | 18.11 | 18.59 | 18.52 |
| | | 1745 (132322) | 18.39 | 18.51 | 18.33 |
| | | 1712.5 (131997) | 18.37 | 18.43 | 18.37 |
| 10MHz | 1RB-High (49) | 1775 (132622) | 18.18 | 18.46 | 18.40 |
| | | 1745 (132322) | 18.32 | 18.62 | 18.65 |
| | | 1715 (132022) | 18.24 | 18.42 | 18.49 |
| | 1RB-Middle (24) | 1775 (132622) | 17.98 | 18.56 | 18.44 |
| | | 1745 (132322) | 18.25 | 18.42 | 18.21 |
| | | 1715 (132022) | 18.22 | 18.57 | 18.55 |
| | 1RB-Low (0) | 1775 (132622) | 18.06 | 18.69 | 18.72 |
| | | 1745 (132322) | 18.12 | 18.25 | 18.23 |
| | | 1715 (132022) | 18.15 | 18.64 | 18.66 |
| | 25RB-High (25) | 1775 (132622) | 18.03 | 18.46 | 18.19 |
| | | 1745 (132322) | 18.13 | 18.56 | 18.38 |
| | | 1715 (132022) | 18.14 | 18.59 | 18.60 |
| | 25RB-Middle (12) | 1775 (132622) | 18.07 | 18.33 | 18.19 |
| | | 1745 (132322) | 18.04 | 18.69 | 18.37 |
| | | 1715 (132022) | 18.28 | 18.36 | 18.26 |
| | 25RB-Low (0) | 1775 (132622) | 18.06 | 18.62 | 18.57 |
| | | 1745 (132322) | 18.33 | 18.54 | 18.37 |
| | | 1715 (132022) | 18.23 | 18.68 | 18.31 |
| | 50RB (0) | 1775 (132622) | 17.99 | 18.53 | 18.48 |
| | | 1745 (132322) | 18.36 | 18.42 | 18.19 |
| | | 1715 (132022) | 18.24 | 18.54 | 18.13 |

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| 15MHz | 1RB-High (74) | 1772.5 (132597) | 17.97 | 18.31 | 18.48 |
| | | 1745 (132322) | 18.13 | 18.49 | 18.69 |
| | | 1717.5 (132047) | 18.08 | 18.55 | 18.26 |
| | 1RB-Middle (37) | 1772.5 (132597) | 18.18 | 18.38 | 18.55 |
| | | 1745 (132322) | 18.12 | 18.60 | 18.38 |
| | | 1717.5 (132047) | 18.36 | 18.46 | 18.45 |
| | 1RB-Low (0) | 1772.5 (132597) | 18.23 | 18.62 | 18.47 |
| | | 1745 (132322) | 18.17 | 18.29 | 18.42 |
| | | 1717.5 (132047) | 18.31 | 18.43 | 18.44 |
| | 36RB-High (38) | 1772.5 (132597) | 17.92 | 18.40 | 18.32 |
| | | 1745 (132322) | 18.17 | 18.46 | 18.55 |
| | | 1717.5 (132047) | 18.06 | 18.66 | 18.60 |
| | 36RB-Middle (19) | 1772.5 (132597) | 18.05 | 18.33 | 18.21 |
| | | 1745 (132322) | 18.00 | 18.49 | 18.53 |
| | | 1717.5 (132047) | 18.25 | 18.53 | 18.43 |
| | 36RB-Low (0) | 1772.5 (132597) | 18.16 | 18.70 | 18.52 |
| | | 1745 (132322) | 18.30 | 18.56 | 18.27 |
| | | 1717.5 (132047) | 18.27 | 18.58 | 18.22 |
| | 75RB (0) | 1772.5 (132597) | 18.18 | 18.48 | 18.37 |
| | | 1745 (132322) | 18.12 | 18.39 | 18.45 |
| | | 1717.5 (132047) | 18.14 | 18.55 | 18.25 |
| 20MHz | 1RB-High (99) | 1770 (132572) | 18.10 | 18.41 | 18.34 |
| | | 1745 (132322) | 18.21 | 18.57 | 18.59 |
| | | 1720 (132072) | 18.09 | 18.43 | 18.38 |
| | 1RB-Middle (50) | 1770 (132572) | 18.09 | 18.44 | 18.51 |
| | | 1745 (132322) | 18.12 | 18.47 | 18.36 |
| | | 1720 (132072) | 18.23 | 18.58 | 18.52 |
| | 1RB-Low (0) | 1770 (132572) | 18.16 | 18.58 | 18.59 |
| | | 1745 (132322) | 18.14 | 18.40 | 18.37 |
| | | 1720 (132072) | 18.20 | 18.50 | 18.51 |
| | 50RB-High (50) | 1770 (132572) | 18.07 | 18.54 | 18.26 |
| | | 1745 (132322) | 18.06 | 18.58 | 18.43 |
| | | 1720 (132072) | 18.09 | 18.66 | 18.47 |
| | 50RB-Middle (25) | 1770 (132572) | 18.04 | 18.45 | 18.20 |
| | | 1745 (132322) | 18.06 | 18.57 | 18.52 |
| | | 1720 (132072) | 18.25 | 18.50 | 18.33 |
| | 50RB-Low (0) | 1770 (132572) | 18.20 | 18.60 | 18.52 |
| | | 1745 (132322) | 18.23 | 18.44 | 18.42 |
| | | 1720 (132072) | 18.19 | 18.61 | 18.24 |
| | 100RB (0) | 1770 (132572) | 18.13 | 18.45 | 18.52 |
| | | 1745 (132322) | 18.24 | 18.45 | 18.33 |
| | | 1720 (132072) | 18.26 | 18.51 | 18.27 |

| LTE Band66 ANT4-Power Level C1 | | | | | |
|---|---|---|---|---|---|
| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 1.4MHz | 1RB-High (5) | 1779.3 (132665) | 21.74 | 22.41 | 21.02 |
| | | 1745 (132322) | 21.86 | 22.22 | 21.02 |
| | | 1710.7 (131979) | 21.79 | 22.53 | 21.09 |
| | 1RB-Middle (3) | 1779.3 (132665) | 22.04 | 22.38 | 20.99 |
| | | 1745 (132322) | 22.06 | 22.56 | 21.08 |
| | | 1710.7 (131979) | 22.05 | 22.62 | 21.12 |
| | 1RB-Low (0) | 1779.3 (132665) | 21.98 | 22.47 | 21.03 |
| | | 1745 (132322) | 22.13 | 22.65 | 21.01 |
| | | 1710.7 (131979) | 22.00 | 22.30 | 21.10 |
| | 3RB-High (3) | 1779.3 (132665) | 21.78 | 21.08 | 19.83 |
| | | 1745 (132322) | 21.92 | 20.93 | 20.25 |
| | | 1710.7 (131979) | 21.89 | 21.10 | 19.77 |
| | 3RB-Middle (1) | 1779.3 (132665) | 21.87 | 20.88 | 20.01 |
| | | 1745 (132322) | 22.15 | 21.01 | 19.96 |
| | | 1710.7 (131979) | 22.24 | 20.96 | 20.19 |
| | 3RB-Low (0) | 1779.3 (132665) | 22.04 | 21.04 | 20.01 |
| | | 1745 (132322) | 22.06 | 21.07 | 19.96 |
| | | 1710.7 (131979) | 21.98 | 20.68 | 20.18 |
| | 6RB (0) | 1779.3 (132665) | 21.94 | 20.81 | 20.20 |
| | | 1745 (132322) | 21.86 | 20.94 | 19.99 |
| | | 1710.7 (131979) | 22.00 | 20.81 | 20.09 |
| 3MHz | 1RB-High (14) | 1778.5 (132657) | 21.78 | 22.42 | 20.86 |
| | | 1745 (132322) | 22.15 | 22.33 | 20.99 |
| | | 1711.5 (131987) | 21.99 | 22.53 | 21.27 |
| | 1RB-Middle (7) | 1778.5 (132657) | 22.06 | 22.47 | 21.13 |
| | | 1745 (132322) | 22.00 | 22.47 | 20.97 |
| | | 1711.5 (131987) | 22.13 | 22.42 | 21.18 |
| | 1RB-Low (0) | 1778.5 (132657) | 22.03 | 22.44 | 20.87 |
| | | 1745 (132322) | 21.91 | 22.50 | 21.12 |
| | | 1711.5 (131987) | 22.10 | 22.17 | 21.30 |
| | 8RB-High (7) | 1778.5 (132657) | 21.83 | 20.88 | 19.90 |
| | | 1745 (132322) | 21.97 | 20.86 | 20.09 |
| | | 1711.5 (131987) | 21.89 | 21.11 | 19.83 |
| | 8RB-Middle (4) | 1778.5 (132657) | 21.94 | 20.96 | 20.03 |
| | | 1745 (132322) | 22.10 | 21.10 | 20.01 |
| | | 1711.5 (131987) | 22.11 | 20.94 | 20.10 |
| | 8RB-Low (0) | 1778.5 (132657) | 21.91 | 21.06 | 20.00 |
| | | 1745 (132322) | 22.08 | 20.89 | 19.76 |
| | | 1711.5 (131987) | 21.97 | 20.73 | 20.00 |
| | 15RB (0) | 1778.5 (132657) | 21.88 | 21.02 | 20.19 |
| | | 1745 (132322) | 21.92 | 20.94 | 20.07 |
| | | 1711.5 (131987) | 22.03 | 21.05 | 19.94 |

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| 5MHz | 1RB-High (24) | 1777.5 (132647) | 21.88 | 22.38 | 20.89 |
| | | 1745 (132322) | 22.04 | 22.26 | 21.24 |
| | | 1712.5 (131997) | 21.89 | 22.54 | 21.11 |
| | 1RB-Middle (12) | 1777.5 (132647) | 21.99 | 22.45 | 21.02 |
| | | 1745 (132322) | 22.20 | 22.51 | 21.17 |
| | | 1712.5 (131997) | 22.21 | 22.48 | 21.01 |
| | 1RB-Low (0) | 1777.5 (132647) | 22.01 | 22.54 | 20.90 |
| | | 1745 (132322) | 21.89 | 22.45 | 21.12 |
| | | 1712.5 (131997) | 21.80 | 22.43 | 21.12 |
| | 12RB-High (13) | 1777.5 (132647) | 21.70 | 21.05 | 19.86 |
| | | 1745 (132322) | 22.10 | 21.01 | 20.13 |
| | | 1712.5 (131997) | 21.84 | 21.13 | 19.69 |
| | 12RB-Middle (6) | 1777.5 (132647) | 21.90 | 21.03 | 19.85 |
| | | 1745 (132322) | 22.14 | 20.90 | 19.99 |
| | | 1712.5 (131997) | 21.96 | 20.76 | 19.97 |
| | 12RB-Low (0) | 1777.5 (132647) | 22.02 | 21.06 | 20.07 |
| | | 1745 (132322) | 22.22 | 20.97 | 19.77 |
| | | 1712.5 (131997) | 21.92 | 20.68 | 20.02 |
| | 25RB (0) | 1777.5 (132647) | 21.78 | 20.86 | 20.24 |
| | | 1745 (132322) | 22.01 | 20.83 | 19.97 |
| | | 1712.5 (131997) | 21.97 | 20.85 | 20.08 |
| 10MHz | 1RB-High (49) | 1775 (132622) | 21.81 | 22.29 | 21.00 |
| | | 1745 (132322) | 22.15 | 22.23 | 21.23 |
| | | 1715 (132022) | 21.89 | 22.63 | 21.19 |
| | 1RB-Middle (24) | 1775 (132622) | 22.05 | 22.42 | 21.00 |
| | | 1745 (132322) | 22.06 | 22.57 | 21.21 |
| | | 1715 (132022) | 22.12 | 22.68 | 21.00 |
| | 1RB-Low (0) | 1775 (132622) | 22.12 | 22.33 | 21.08 |
| | | 1745 (132322) | 21.98 | 22.69 | 20.96 |
| | | 1715 (132022) | 22.01 | 22.42 | 21.34 |
| | 25RB-High (25) | 1775 (132622) | 21.82 | 21.09 | 19.88 |
| | | 1745 (132322) | 22.00 | 20.85 | 19.99 |
| | | 1715 (132022) | 21.83 | 21.13 | 19.95 |
| | 25RB-Middle (12) | 1775 (132622) | 21.90 | 20.81 | 19.75 |
| | | 1745 (132322) | 22.04 | 20.85 | 20.00 |
| | | 1715 (132022) | 22.01 | 20.83 | 20.25 |
| | 25RB-Low (0) | 1775 (132622) | 21.84 | 21.03 | 20.11 |
| | | 1745 (132322) | 22.20 | 21.12 | 19.71 |
| | | 1715 (132022) | 22.06 | 20.84 | 20.13 |
| | 50RB (0) | 1775 (132622) | 21.89 | 20.93 | 20.07 |
| | | 1745 (132322) | 21.95 | 20.92 | 20.04 |
| | | 1715 (132022) | 22.04 | 20.97 | 19.91 |

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| 15MHz | 1RB-High (74) | 1772.5 (132597) | 21.88 | 22.21 | 21.07 |
| | | 1745 (132322) | 21.89 | 22.30 | 21.16 |
| | | 1717.5 (132047) | 21.88 | 22.43 | 21.26 |
| | 1RB-Middle (37) | 1772.5 (132597) | 22.09 | 22.58 | 21.02 |
| | | 1745 (132322) | 22.17 | 22.41 | 21.11 |
| | | 1717.5 (132047) | 22.23 | 22.60 | 21.17 |
| | 1RB-Low (0) | 1772.5 (132597) | 21.88 | 22.50 | 21.00 |
| | | 1745 (132322) | 21.87 | 22.54 | 20.91 |
| | | 1717.5 (132047) | 21.84 | 22.29 | 21.12 |
| | 36RB-High (38) | 1772.5 (132597) | 21.90 | 20.84 | 19.99 |
| | | 1745 (132322) | 22.19 | 20.76 | 20.24 |
| | | 1717.5 (132047) | 21.91 | 20.92 | 19.93 |
| | 36RB-Middle (19) | 1772.5 (132597) | 21.95 | 21.03 | 20.04 |
| | | 1745 (132322) | 21.94 | 20.81 | 20.14 |
| | | 1717.5 (132047) | 22.15 | 20.93 | 20.10 |
| | 36RB-Low (0) | 1772.5 (132597) | 21.94 | 20.96 | 19.94 |
| | | 1745 (132322) | 22.20 | 20.85 | 19.81 |
| | | 1717.5 (132047) | 21.91 | 20.83 | 20.02 |
| | 75RB (0) | 1772.5 (132597) | 21.74 | 20.85 | 20.03 |
| | | 1745 (132322) | 21.91 | 21.10 | 20.07 |
| | | 1717.5 (132047) | 22.11 | 21.01 | 19.95 |
| 20MHz | 1RB-High (99) | 1770 (132572) | 21.88 | 22.32 | 21.01 |
| | | 1745 (132322) | 22.00 | 22.30 | 21.11 |
| | | 1720 (132072) | 21.93 | 22.53 | 21.21 |
| | 1RB-Middle (50) | 1770 (132572) | 22.06 | 22.51 | 21.08 |
| | | 1745 (132322) | 22.14 | 22.52 | 21.10 |
| | | 1720 (132072) | 22.15 | 22.53 | 21.04 |
| | 1RB-Low (0) | 1770 (132572) | 21.97 | 22.43 | 20.97 |
| | | 1745 (132322) | 22.00 | 22.59 | 20.98 |
| | | 1720 (132072) | 21.95 | 22.31 | 21.21 |
| | 50RB-High (50) | 1770 (132572) | 21.78 | 20.97 | 19.92 |
| | | 1745 (132322) | 22.05 | 20.86 | 20.10 |
| | | 1720 (132072) | 21.94 | 21.01 | 19.84 |
| | 50RB-Middle (25) | 1770 (132572) | 22.00 | 20.91 | 19.89 |
| | | 1745 (132322) | 22.06 | 20.96 | 20.08 |
| | | 1720 (132072) | 22.11 | 20.86 | 20.11 |
| | 50RB-Low (0) | 1770 (132572) | 21.90 | 21.03 | 19.99 |
| | | 1745 (132322) | 22.09 | 21.00 | 19.86 |
| | | 1720 (132072) | 21.91 | 20.77 | 20.09 |
| | 100RB (0) | 1770 (132572) | 21.89 | 20.95 | 20.10 |
| | | 1745 (132322) | 22.00 | 20.97 | 20.04 |
| | | 1720 (132072) | 21.96 | 20.91 | 20.00 |

| LTE Band71-Power Level A1/B1/C1/D1/E1/F1 | | | | | |
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| **BANDWIDTH** | **Number of RBs** | **Frequency** | **QPSK** | **16QAM** | **64QAM** |
| 5MHz | 1RB-High (24) | 695.5 (133447) | 23.17 | 22.34 | 21.29 |
| | | 680.5 (133297) | 23.20 | 22.35 | 21.24 |
| | | 665.5 (133147) | 23.09 | 22.34 | 21.09 |
| | 1RB-Middle (12) | 695.5 (133447) | 23.27 | 22.40 | 21.28 |
| | | 680.5 (133297) | 23.29 | 22.38 | 21.28 |
| | | 665.5 (133147) | 23.15 | 22.30 | 21.14 |
| | 1RB-Low (0) | 695.5 (133447) | 23.18 | 22.27 | 21.21 |
| | | 680.5 (133297) | 23.19 | 22.42 | 21.28 |
| | | 665.5 (133147) | 23.13 | 22.29 | 21.23 |
| | 12RB-High (13) | 695.5 (133447) | 22.12 | 21.12 | 20.08 |
| | | 680.5 (133297) | 22.14 | 21.12 | 20.16 |
| | | 665.5 (133147) | 22.04 | 21.02 | 20.18 |
| | 12RB-Middle (6) | 695.5 (133447) | 22.12 | 21.11 | 20.12 |
| | | 680.5 (133297) | 22.16 | 21.15 | 20.13 |
| | | 665.5 (133147) | 22.05 | 21.04 | 20.23 |
| | 12RB-Low (0) | 695.5 (133447) | 22.16 | 21.14 | 20.13 |
| | | 680.5 (133297) | 22.16 | 21.13 | 20.10 |
| | | 665.5 (133147) | 22.01 | 20.94 | 20.19 |
| | 25RB (0) | 695.5 (133447) | 22.14 | 21.18 | 20.12 |
| | | 680.5 (133297) | 22.19 | 21.16 | 20.13 |
| | | 665.5 (133147) | 22.06 | 21.07 | 20.18 |
| 10MHz | 1RB-High (49) | 693 (132422) | 23.12 | 22.17 | 21.12 |
| | | 680.5 (133297) | 23.16 | 22.20 | 21.21 |
| | | 668 (133172) | 23.10 | 22.23 | 21.14 |
| | 1RB-Middle (24) | 693 (132422) | 23.27 | 22.15 | 21.34 |
| | | 680.5 (133297) | 23.26 | 22.44 | 21.28 |
| | | 668 (133172) | 23.14 | 22.38 | 21.19 |
| | 1RB-Low (0) | 693 (132422) | 23.15 | 22.15 | 21.14 |
| | | 680.5 (133297) | 23.18 | 22.29 | 21.25 |
| | | 668 (133172) | 23.17 | 22.26 | 21.22 |
| | 25RB-High (25) | 693 (132422) | 22.12 | 21.12 | 20.10 |
| | | 680.5 (133297) | 22.13 | 21.11 | 20.09 |
| | | 668 (133172) | 22.07 | 21.09 | 20.19 |
| | 25RB-Middle (12) | 693 (132422) | 22.17 | 21.18 | 20.14 |
| | | 680.5 (133297) | 22.20 | 21.15 | 20.12 |
| | | 668 (133172) | 22.08 | 21.06 | 20.22 |
| | 25RB-Low (0) | 693 (132422) | 22.16 | 21.14 | 20.12 |
| | | 680.5 (133297) | 22.11 | 21.13 | 20.11 |
| | | 668 (133172) | 22.02 | 21.02 | 20.19 |
| | 50RB (0) | 693 (132422) | 22.11 | 21.10 | 20.13 |
| | | 680.5 (133297) | 22.14 | 21.12 | 20.10 |
| | | 668 (133172) | 22.07 | 21.01 | 20.20 |

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| 15MHz | 1RB-High (74) | 690.5 (133397) | 23.13 | 22.33 | 21.15 |
| | | 680.5 (133297) | 23.11 | 22.27 | 21.13 |
| | | 670.5 (133197) | 23.11 | 22.27 | 21.05 |
| | 1RB-Middle (37) | 690.5 (133397) | 23.18 | 22.42 | 21.22 |
| | | 680.5 (133297) | 23.24 | 22.39 | 21.23 |
| | | 670.5 (133197) | 23.15 | 22.42 | 21.23 |
| | 1RB-Low (0) | 690.5 (133397) | 23.19 | 22.35 | 21.24 |
| | | 680.5 (133297) | 23.14 | 22.33 | 21.24 |
| | | 670.5 (133197) | 23.14 | 22.35 | 21.23 |
| | 36RB-High (38) | 690.5 (133397) | 22.16 | 21.18 | 20.15 |
| | | 680.5 (133297) | 22.18 | 21.10 | 20.14 |
| | | 670.5 (133197) | 22.10 | 21.05 | 20.08 |
| | 36RB-Middle (19) | 690.5 (133397) | 22.17 | 21.10 | 20.13 |
| | | 680.5 (133297) | 22.12 | 21.11 | 20.13 |
| | | 670.5 (133197) | 22.11 | 21.04 | 20.24 |
| | 36RB-Low (0) | 690.5 (133397) | 22.10 | 21.09 | 20.17 |
| | | 680.5 (133297) | 22.11 | 21.09 | 20.12 |
| | | 670.5 (133197) | 22.02 | 21.06 | 20.24 |
| | 75RB (0) | 690.5 (133397) | 22.17 | 21.09 | 20.14 |
| | | 680.5 (133297) | 22.17 | 21.16 | 20.06 |
| | | 670.5 (133197) | 22.11 | 21.08 | 20.19 |
| 20MHz | 1RB-High (99) | 688 (133372) | 22.53 | 21.78 | 20.60 |
| | | 683 (133322) | 22.54 | 21.76 | 20.62 |
| | | 673 (133222) | 22.46 | 21.68 | 20.57 |
| | 1RB-Middle (50) | 688 (133372) | 22.65 | 21.85 | 20.69 |
| | | 683 (133322) | 22.70 | 21.72 | 20.73 |
| | | 673 (133222) | 22.63 | 21.78 | 20.71 |
| | 1RB-Low (0) | 688 (133372) | 22.60 | 21.88 | 20.65 |
| | | 683 (133322) | 22.62 | 21.81 | 20.71 |
| | | 673 (133222) | 22.60 | 21.82 | 20.69 |
| | 50RB-High (50) | 688 (133372) | 21.60 | 20.59 | 19.70 |
| | | 683 (133322) | 21.56 | 20.55 | 19.75 |
| | | 673 (133222) | 21.52 | 20.53 | 19.68 |
| | 50RB-Middle (25) | 688 (133372) | 21.63 | 20.58 | 19.75 |
| | | 683 (133322) | 21.59 | 20.55 | 19.72 |
| | | 673 (133222) | 21.61 | 20.57 | 19.74 |
| | 50RB-Low (0) | 688 (133372) | 21.63 | 20.64 | 19.82 |
| | | 683 (133322) | 21.64 | 20.60 | 19.73 |
| | | 673 (133222) | 21.57 | 20.56 | 19.66 |
| | 100RB (0) | 688 (133372) | 21.60 | 20.54 | 19.74 |
| | | 683 (133322) | 21.59 | 20.56 | 19.69 |
| | | 673 (133222) | 21.52 | 20.49 | 19.66 |

Uplink maximum output power is measured with downlink carrier aggregation active, using the channel with highest measured maximum output power when downlink carrier aggregation is inactive. SAR test is not required since maximum output power when downlink carrier aggregation active is not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.

The device supports Intra-band uplink LTE Carrier Aggregation (CA) CA_B41C. The conducted power measurement results of LTE CA are provided as follow.
All other uplink communications are identical to the release 8 specifications. Other LTE Rel.10 or higher features are not supported, including Enhanced SC-FDMA or Uplink MIMO etc.

| B41C PC3-Power Level A1/C1/D1 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| UL LTE CA Class | PCC | | | | SCC | | | | Power | |
| | PCC Bandwidth | channel | RB | RB OFFSET | SCC Bandwidth | channel | RB | RB OFFSET | tune up | conducted power（dBm） |
| CA_41C | 20M | 39750 | 1 | 99 | 5M | 39867 | 1 | 0 | 24 | 22.52 |
| CA_41C | 15M | 39725 | 1 | 74 | 10M | 39845 | 1 | 0 | 24 | 22.64 |
| CA_41C | 20M | 39750 | 1 | 99 | 10M | 39894 | 1 | 0 | 24 | 22.49 |
| CA_41C | 20M | 39750 | 1 | 99 | 15M | 39921 | 1 | 0 | 24 | 22.66 |
| CA_41C | 20M | 39750 | 1 | 99 | 20M | 39948 | 1 | 0 | 24 | 22.61 |
| CA_41C | 20M | 41490 | 1 | 0 | 5M | 41373 | 1 | 24 | 24 | 22.67 |
| CA_41C | 15M | 41515 | 1 | 0 | 10M | 41395 | 1 | 49 | 24 | 22.76 |
| CA_41C | 20M | 41490 | 1 | 0 | 10M | 41346 | 1 | 49 | 24 | 22.71 |
| CA_41C | 15M | 41515 | 1 | 0 | 15M | 41365 | 1 | 74 | 24 | 22.92 |
| CA_41C | 20M | 41490 | 1 | 0 | 15M | 41319 | 1 | 74 | 24 | 22.84 |
| CA_41C | 20M | 41490 | 1 | 0 | 20M | 41292 | 1 | 99 | 24 | 22.81 |

| B41C PC2-Power Level A1/C1/D1 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| UL LTE CA Class | PCC | | | | SCC | | | | Power | |
| | PCC Bandwidth | channel | RB | RB OFFSET | SCC Bandwidth | channel | RB | RB OFFSET | tune up | conducted power（dBm） |
| CA_41C | 20M | 39750 | 1 | 99 | 5M | 39867 | 1 | 0 | 27 | 26.27 |
| CA_41C | 15M | 39725 | 1 | 74 | 10M | 39845 | 1 | 0 | 27 | 26.48 |
| CA_41C | 20M | 39750 | 1 | 99 | 10M | 39894 | 1 | 0 | 27 | 26.12 |
| CA_41C | 20M | 39750 | 1 | 99 | 15M | 39921 | 1 | 0 | 27 | 26.38 |
| CA_41C | 20M | 39750 | 1 | 99 | 20M | 39948 | 1 | 0 | 27 | 26.52 |
| CA_41C | 20M | 41490 | 1 | 0 | 5M | 41373 | 1 | 24 | 27 | 26.36 |
| CA_41C | 15M | 41515 | 1 | 0 | 10M | 41395 | 1 | 49 | 27 | 26.49 |
| CA_41C | 20M | 41490 | 1 | 0 | 10M | 41346 | 1 | 49 | 27 | 26.51 |
| CA_41C | 15M | 41515 | 1 | 0 | 15M | 41365 | 1 | 74 | 27 | 26.49 |
| CA_41C | 20M | 41490 | 1 | 0 | 15M | 41319 | 1 | 74 | 27 | 26.69 |
| CA_41C | 20M | 41490 | 1 | 0 | 20M | 41292 | 1 | 99 | 27 | 26.29 |

| B41C PC3-Power Level B1/F1 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| UL LTE CA Class | PCC | | | | SCC | | | | Power | |
| | PCC Bandwidth | channel | RB | RB OFFSET | SCC Bandwidth | channel | RB | RB OFFSET | tune up | conducted power（dBm） |
| CA_41C | 20M | 39750 | 1 | 99 | 5M | 39867 | 1 | 0 | 19 | 18.28 |
| CA_41C | 15M | 39725 | 1 | 74 | 10M | 39845 | 1 | 0 | 19 | 18.27 |
| CA_41C | 20M | 39750 | 1 | 99 | 10M | 39894 | 1 | 0 | 19 | 18.19 |
| CA_41C | 20M | 39750 | 1 | 99 | 15M | 39921 | 1 | 0 | 19 | 18.37 |
| CA_41C | 20M | 39750 | 1 | 99 | 20M | 39948 | 1 | 0 | 19 | 18.23 |
| CA_41C | 20M | 41490 | 1 | 0 | 5M | 41373 | 1 | 24 | 19 | 18.25 |
| CA_41C | 15M | 41515 | 1 | 0 | 10M | 41395 | 1 | 49 | 19 | 18.38 |
| CA_41C | 20M | 41490 | 1 | 0 | 10M | 41346 | 1 | 49 | 19 | 18.28 |
| CA_41C | 15M | 41515 | 1 | 0 | 15M | 41365 | 1 | 74 | 19 | 18.53 |
| CA_41C | 20M | 41490 | 1 | 0 | 15M | 41319 | 1 | 74 | 19 | 18.41 |
| CA_41C | 20M | 41490 | 1 | 0 | 20M | 41292 | 1 | 99 | 19 | 18.34 |

| B41C PC2-Power Level B1/F1 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| UL LTE CA Class | PCC | | | | SCC | | | | Power | |
| | PCC Bandwidth | channel | RB | RB OFFSET | SCC Bandwidth | channel | RB | RB OFFSET | tune up | conducted power（dBm） |
| CA_41C | 20M | 39750 | 1 | 99 | 5M | 39867 | 1 | 0 | 22.5 | 22.25 |
| CA_41C | 15M | 39725 | 1 | 74 | 10M | 39845 | 1 | 0 | 22.5 | 22.28 |
| CA_41C | 20M | 39750 | 1 | 99 | 10M | 39894 | 1 | 0 | 22.5 | 22.34 |
| CA_41C | 20M | 39750 | 1 | 99 | 15M | 39921 | 1 | 0 | 22.5 | 22.18 |
| CA_41C | 20M | 39750 | 1 | 99 | 20M | 39948 | 1 | 0 | 22.5 | 22.05 |
| CA_41C | 20M | 41490 | 1 | 0 | 5M | 41373 | 1 | 24 | 22.5 | 22.03 |
| CA_41C | 15M | 41515 | 1 | 0 | 10M | 41395 | 1 | 49 | 22.5 | 22.19 |
| CA_41C | 20M | 41490 | 1 | 0 | 10M | 41346 | 1 | 49 | 22.5 | 22.04 |
| CA_41C | 15M | 41515 | 1 | 0 | 15M | 41365 | 1 | 74 | 22.5 | 22.09 |
| CA_41C | 20M | 41490 | 1 | 0 | 15M | 41319 | 1 | 74 | 22.5 | 22.24 |
| CA_41C | 20M | 41490 | 1 | 0 | 20M | 41292 | 1 | 99 | 22.5 | 22.09 |

## 11.4 5G NR Measurement result

### Maximum Target Power for Production Unit –Power Level D1/E1/F1

| Band | Tune up (dBm) | | | | | |
|---|---|---|---|---|---|---|
| | **Receiver off+ Sensor off (DSI0)** | **Receiver off+ Hotspot on (DSI1)** | **Receiver on+ WLAN off (DSI2)** | **Receiver on+ WLAN on (DSI3)** | **Receiver off+ sensor on+ WLAN off (DSI4)** | **Receiver off+ sensor on+ WLAN on (DSI5)** |
| | Power Level A1 | Power Level B1 | Power Level C1 | Power Level D1 | Power Level E1 | Power Level F1 |
| n25-ANT1 (SA/NSA) | 24 | 22 | 24 | 24 | 23 | 22 |
| n25-ANT4 (NSA) | 24 | 23 | 18.5 | 18.5 | 24 | 23 |
| n66-ANT1 (SA/NSA) | 24 | 20 | 24 | 24 | 24 | 20 |
| n66-ANT4(NSA) | 24 | 24 | 22.5 | 21 | 24 | 24 |
| n41(SA/NSA) | 27 | 21.5 | 17.5 | 17.5 | 24 | 21.5 |
| n71(SA/NSA) | 24 | 24 | 24 | 24 | 24 | 24 |

| 5G NR n25 ANT1-Power Level A1/C1/D1 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | Power Results (dBm) |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1912.5 | 382500 | 22.69 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1882.5 | 376500 | 22.73 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1852.5 | 370500 | 22.75 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1905 | 381000 | 22.62 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1882.5 | 376500 | 22.91 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1860 | 372000 | 22.77 |
| 15 | 20 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 50@25 | 1882.5 | 376500 | 22.39 |
| 15 | 20 | DFT-s-OFDM 16QAM | Inner_Full | 50@25 | 1882.5 | 376500 | 22.78 |
| 15 | 20 | DFT-s-OFDM 64QAM | Inner_Full | 50@25 | 1882.5 | 376500 | 20.56 |
| 15 | 20 | DFT-s-OFDM 256QAM | Inner_Full | 50@25 | 1882.5 | 376500 | 18.26 |
| 15 | 20 | CP-OFDM QPSK | Inner_Full | 53@26 | 1882.5 | 376500 | 21.15 |
| 15 | 20 | CP-OFDM 16QAM | Inner_Full | 53@26 | 1882.5 | 376500 | 21.78 |
| 15 | 20 | CP-OFDM 64QAM | Inner_Full | 53@26 | 1882.5 | 376500 | 19.92 |
| 15 | 20 | CP-OFDM 256QAM | Inner_Full | 53@26 | 1882.5 | 376500 | 16.35 |
| 15 | 20 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1@105 | 1882.5 | 376500 | 22.14 |
| 15 | 20 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1@0 | 1882.5 | 376500 | 22.32 |
| 15 | 20 | DFT-s-OFDM QPSK | Edge_Full_Right | 2@104 | 1882.5 | 370500 | 22.15 |
| 15 | 20 | DFT-s-OFDM QPSK | Edge_Full_Left | 2@0 | 1882.5 | 370500 | 22.36 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1@104 | 1882.5 | 370500 | 22.11 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1@1 | 1882.5 | 370500 | 22.31 |
| 15 | 20 | DFT-s-OFDM QPSK | Outer_Full | 100@0 | 1882.5 | 370500 | 22.42 |
| 15 | 10 | DFT-s-OFDM QPSK | Inner_Full | 25@12 | 1882.5 | 376500 | 22.07 |
| 15 | 15 | DFT-s-OFDM QPSK | Inner_Full | 36@18 | 1882.5 | 376500 | 22.23 |

| 5G NR n25 ANT1-Power Level B1/F1 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | Power Results (dBm) |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1912.5 | 382500 | 20.48 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1882.5 | 376500 | 20.29 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1852.5 | 370500 | 20.11 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1905 | 381000 | 20.41 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1882.5 | 376500 | 20.35 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1860 | 372000 | 20.53 |
| 15 | 20 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 50@25 | 1860 | 372000 | 20.14 |
| 15 | 20 | DFT-s-OFDM 16QAM | Inner_Full | 50@25 | 1860 | 372000 | 20.76 |
| 15 | 20 | DFT-s-OFDM 64QAM | Inner_Full | 50@25 | 1860 | 372000 | 20.74 |
| 15 | 20 | DFT-s-OFDM 256QAM | Inner_Full | 50@25 | 1860 | 372000 | 19.07 |
| 15 | 20 | CP-OFDM QPSK | Inner_Full | 53@26 | 1860 | 372000 | 18.59 |
| 15 | 20 | CP-OFDM 16QAM | Inner_Full | 53@26 | 1860 | 372000 | 21.27 |
| 15 | 20 | CP-OFDM 64QAM | Inner_Full | 53@26 | 1860 | 372000 | 20.69 |
| 15 | 20 | CP-OFDM 256QAM | Inner_Full | 53@26 | 1860 | 372000 | 17.32 |
| 15 | 20 | CP-OFDM 16QAM | Edge_1RB_Right | 1@105 | 1860 | 372000 | 21.47 |
| 15 | 20 | CP-OFDM 16QAM | Edge_1RB_Left | 1@0 | 1860 | 372000 | 20.17 |
| 15 | 20 | CP-OFDM 16QAM | Edge_Full_Right | 2@104 | 1860 | 372000 | 21.04 |
| 15 | 20 | CP-OFDM 16QAM | Edge_Full_Left | 2@0 | 1860 | 372000 | 20.23 |
| 15 | 20 | CP-OFDM 16QAM | Inner_1RB_Right | 1@104 | 1860 | 372000 | 21.48 |
| 15 | 20 | CP-OFDM 16QAM | Inner_1RB_Left | 1@1 | 1860 | 372000 | 20.64 |
| 15 | 20 | CP-OFDM 16QAM | Outer_Full | 100@0 | 1860 | 372000 | 21.26 |
| 15 | 10 | CP-OFDM 16QAM | Inner_1RB_Left | 1@1 | 1855 | 371000 | 21.20 |
| 15 | 15 | CP-OFDM 16QAM | Inner_1RB_Left | 1@1 | 1857.5 | 371500 | 21.07 |

| 5G NR n25 ANT1-Power Level E1 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | Power Results (dBm) |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1912.5 | 382500 | 22.69 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1882.5 | 376500 | 22.73 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1852.5 | 370500 | 22.75 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1905 | 381000 | 22.62 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1882.5 | 376500 | 22.91 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1860 | 372000 | 22.77 |
| 15 | 20 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 50@25 | 1882.5 | 376500 | 22.39 |
| 15 | 20 | DFT-s-OFDM 16QAM | Inner_Full | 50@25 | 1882.5 | 376500 | 22.78 |
| 15 | 20 | DFT-s-OFDM 64QAM | Inner_Full | 50@25 | 1882.5 | 376500 | 20.56 |
| 15 | 20 | DFT-s-OFDM 256QAM | Inner_Full | 50@25 | 1882.5 | 376500 | 18.26 |
| 15 | 20 | CP-OFDM QPSK | Inner_Full | 53@26 | 1882.5 | 376500 | 21.15 |
| 15 | 20 | CP-OFDM 16QAM | Inner_Full | 53@26 | 1882.5 | 376500 | 21.78 |
| 15 | 20 | CP-OFDM 64QAM | Inner_Full | 53@26 | 1882.5 | 376500 | 19.92 |
| 15 | 20 | CP-OFDM 256QAM | Inner_Full | 53@26 | 1882.5 | 376500 | 16.35 |
| 15 | 20 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1@105 | 1882.5 | 376500 | 22.14 |
| 15 | 20 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1@0 | 1882.5 | 376500 | 22.32 |
| 15 | 20 | DFT-s-OFDM QPSK | Edge_Full_Right | 2@104 | 1882.5 | 370500 | 22.15 |
| 15 | 20 | DFT-s-OFDM QPSK | Edge_Full_Left | 2@0 | 1882.5 | 370500 | 22.36 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1@104 | 1882.5 | 370500 | 22.11 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1@1 | 1882.5 | 370500 | 22.31 |
| 15 | 20 | DFT-s-OFDM QPSK | Outer_Full | 100@0 | 1882.5 | 370500 | 22.42 |
| 15 | 10 | DFT-s-OFDM QPSK | Inner_Full | 25@12 | 1882.5 | 376500 | 22.07 |
| 15 | 15 | DFT-s-OFDM QPSK | Inner_Full | 36@18 | 1882.5 | 376500 | 22.23 |

| 5G NR n25 ANT4-Power Level A1/E1 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | n25 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1912.5 | 382500 | 23.81 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1882.5 | 376500 | 23.61 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1852.5 | 370500 | 23.84 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1905 | 381000 | 22.51 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1882.5 | 376500 | 22.51 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1860 | 372000 | 22.63 |
| 15 | 5 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 12@6 | 1852.5 | 370500 | 23.04 |
| 15 | 5 | DFT-s-OFDM 16QAM | Inner_Full | 12@6 | 1852.5 | 370500 | 22.59 |
| 15 | 5 | DFT-s-OFDM 64QAM | Inner_Full | 12@6 | 1852.5 | 370500 | 20.97 |
| 15 | 5 | DFT-s-OFDM 256QAM | Inner_Full | 12@6 | 1852.5 | 370500 | 18.69 |
| 15 | 5 | CP-OFDM QPSK | Inner_Full | 13@6 | 1852.5 | 370500 | 22.47 |
| 15 | 5 | CP-OFDM 16QAM | Inner_Full | 13@6 | 1852.5 | 370500 | 21.95 |
| 15 | 5 | CP-OFDM 64QAM | Inner_Full | 13@6 | 1852.5 | 370500 | 20.41 |
| 15 | 5 | CP-OFDM 256QAM | Inner_Full | 13@6 | 1852.5 | 370500 | 17.13 |
| 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1@24 | 1852.5 | 370500 | 22.65 |
| 15 | 5 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1@0 | 1852.5 | 370500 | 21.74 |
| 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Right | 2@23 | 1852.5 | 370500 | 22.69 |
| 15 | 5 | DFT-s-OFDM QPSK | Edge_Full_Left | 2@0 | 1852.5 | 370500 | 21.71 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1@23 | 1852.5 | 370500 | 23.66 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1@1 | 1852.5 | 370500 | 22.83 |
| 15 | 5 | DFT-s-OFDM QPSK | Outer_Full | 25@0 | 1852.5 | 370500 | 22.23 |
| 15 | 10 | DFT-s-OFDM QPSK | Inner_Full | 25@12 | 1852.5 | 370500 | 22.29 |
| 15 | 15 | DFT-s-OFDM QPSK | Inner_Full | 36@18 | 1852.5 | 370500 | 22.45 |

| 5G NR n25 ANT4-Power Level C1/D1 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | Power Results (dBm) |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1912.5 | 382500 | 17.05 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1882.5 | 376500 | 17.11 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1852.5 | 370500 | 17.38 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1905 | 381000 | 17.13 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1882.5 | 376500 | 17.09 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1860 | 372000 | 17.43 |
| 15 | 20 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 50@25 | 1860 | 372000 | 17.31 |
| 15 | 20 | DFT-s-OFDM 16QAM | Inner_Full | 50@25 | 1860 | 372000 | 17.54 |
| 15 | 20 | DFT-s-OFDM 64QAM | Inner_Full | 50@25 | 1860 | 372000 | 17.52 |
| 15 | 20 | DFT-s-OFDM 256QAM | Inner_Full | 50@25 | 1860 | 372000 | 17.51 |
| 15 | 20 | CP-OFDM QPSK | Inner_Full | 50@25 | 1860 | 372000 | 15.92 |
| 15 | 20 | CP-OFDM 16QAM | Inner_Full | 50@25 | 1860 | 372000 | 15.84 |
| 15 | 20 | CP-OFDM 64QAM | Inner_Full | 50@25 | 1860 | 372000 | 17.84 |
| 15 | 20 | CP-OFDM 256QAM | Inner_Full | 50@25 | 1860 | 372000 | 16.59 |
| 15 | 20 | DFT-s-OFDM 16QAM | Edge_1RB_Right | 1@105 | 1860 | 372000 | 17.01 |
| 15 | 20 | DFT-s-OFDM 16QAM | Edge_1RB_Left | 1@0 | 1860 | 372000 | 16.75 |
| 15 | 20 | DFT-s-OFDM 16QAM | Edge_Full_Right | 2@104 | 1860 | 372000 | 17.29 |
| 15 | 20 | DFT-s-OFDM 16QAM | Edge_Full_Left | 2@0 | 1860 | 372000 | 17.05 |
| 15 | 20 | DFT-s-OFDM 16QAM | Inner_1RB_Right | 1@104 | 1860 | 372000 | 17.06 |
| 15 | 20 | DFT-s-OFDM 16QAM | Inner_1RB_Left | 1@1 | 1860 | 372000 | 16.74 |
| 15 | 20 | DFT-s-OFDM 16QAM | Outer_Full | 100@0 | 1860 | 372000 | 17.47 |
| 15 | 10 | DFT-s-OFDM 16QAM | Inner_Full | 25@12 | 1855 | 371000 | 17.29 |
| 15 | 15 | DFT-s-OFDM 16QAM | Inner_Full | 36@18 | 1857.5 | 371500 | 17.27 |

| 5G NR n66 ANT1-Power Level A1/C1/D1/E1 | | | | | | |
|---|---|---|---|---|---|---|
| SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | Power Results (dBm) |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1777.5 | 22.93 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1745 | 22.92 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1712.5 | 22.83 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1760 | 22.85 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1745 | 22.98 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1730 | 22.92 |
| 15 | 20 | DFT-s-OFDM PI/2 BPSK | Inner_Full | 50@25 | 1745 | 22.58 |
| 15 | 20 | DFT-s-OFDM 16QAM | Inner_Full | 50@25 | 1745 | 22.67 |
| 15 | 20 | DFT-s-OFDM 64QAM | Inner_Full | 50@25 | 1745 | 20.47 |
| 15 | 20 | DFT-s-OFDM 256QAM | Inner_Full | 50@25 | 1745 | 18.11 |
| 15 | 20 | CP-OFDM QPSK | Inner_Full | 53@26 | 1745 | 21.36 |
| 15 | 20 | CP-OFDM 16QAM | Inner_Full | 53@26 | 1745 | 21.71 |
| 15 | 20 | CP-OFDM 64QAM | Inner_Full | 53@26 | 1745 | 19.82 |
| 15 | 20 | CP-OFDM 256QAM | Inner_Full | 53@26 | 1745 | 16.32 |
| 15 | 20 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1@105 | 1745 | 21.75 |
| 15 | 20 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1@0 | 1745 | 21.77 |
| 15 | 20 | DFT-s-OFDM QPSK | Edge_Full_Right | 2@104 | 1745 | 21.87 |
| 15 | 20 | DFT-s-OFDM QPSK | Edge_Full_Left | 2@0 | 1745 | 21.81 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1@104 | 1745 | 22.12 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1@1 | 1745 | 22.06 |
| 15 | 20 | DFT-s-OFDM QPSK | Outer_Full | 100@0 | 1745 | 21.99 |
| 15 | 10 | DFT-s-OFDM QPSK | Inner_Full | 25@12 | 1745 | 22.05 |
| 15 | 15 | DFT-s-OFDM QPSK | Inner_Full | 36@18 | 1745 | 22.08 |

| 5G NR n66 ANT1-Power Level B1/F1 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | Power Results (dBm) |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1777.5 | 355500 | 18.42 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1745 | 349000 | 18.45 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1712.5 | 342500 | 18.43 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1760 | 352000 | 18.48 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1745 | 349000 | 18.46 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1730 | 346000 | 18.03 |
| 15 | 20 | DFT-s-OFDM PI/2 BPSK | Inner_Full | 50@25 | 1745 | 349000 | 18.25 |
| 15 | 20 | DFT-s-OFDM 16QAM | Inner_Full | 50@25 | 1745 | 349000 | 18.68 |
| 15 | 20 | DFT-s-OFDM 64QAM | Inner_Full | 50@25 | 1745 | 349000 | 18.72 |
| 15 | 20 | DFT-s-OFDM 256QAM | Inner_Full | 50@25 | 1745 | 349000 | 18.16 |
| 15 | 20 | CP-OFDM QPSK | Inner_Full | 53@26 | 1745 | 349000 | 19.23 |
| 15 | 20 | CP-OFDM 16QAM | Inner_Full | 53@26 | 1745 | 349000 | 19.25 |
| 15 | 20 | CP-OFDM 64QAM | Inner_Full | 53@26 | 1745 | 349000 | 19.24 |
| 15 | 20 | CP-OFDM 256QAM | Inner_Full | 53@26 | 1745 | 349000 | 16.23 |
| 15 | 20 | CP-OFDM 16QAM | Edge_1RB_Right | 1@105 | 1745 | 349000 | 19.32 |
| 15 | 20 | CP-OFDM 16QAM | Edge_1RB_Left | 1@0 | 1745 | 349000 | 19.29 |
| 15 | 20 | CP-OFDM 16QAM | Edge_Full_Right | 2@104 | 1745 | 349000 | 18.87 |
| 15 | 20 | CP-OFDM 16QAM | Edge_Full_Left | 2@0 | 1745 | 349000 | 18.89 |
| 15 | 20 | CP-OFDM 16QAM | Inner_1RB_Right | 1@104 | 1745 | 349000 | 19.31 |
| 15 | 20 | CP-OFDM 16QAM | Inner_1RB_Left | 1@1 | 1745 | 349000 | 19.34 |
| 15 | 20 | CP-OFDM 16QAM | Outer_Full | 100@0 | 1745 | 349000 | 19.16 |
| 15 | 10 | CP-OFDM 16QAM | Inner_1RB_Left | 1@1 | 1745 | 349000 | 19.25 |
| 15 | 15 | CP-OFDM 16QAM | Inner_1RB_Left | 1@1 | 1745 | 349000 | 19.43 |

| 5G NR n66 ANT4-Power Level A1/B1/E1/F1 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | Power Results (dBm) |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1777.5 | 355500 | 22.69 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1745 | 349000 | 22.67 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1712.5 | 342500 | 22.64 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1760 | 352000 | 22.64 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1745 | 349000 | 22.64 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1730 | 346000 | 22.74 |
| 15 | 20 | DFT-s-OFDM PI/2 BPSK | Inner_Full | 50@25 | 1730 | 346000 | 22.34 |
| 15 | 20 | DFT-s-OFDM 16QAM | Inner_Full | 50@25 | 1730 | 346000 | 21.35 |
| 15 | 20 | DFT-s-OFDM 64QAM | Inner_Full | 50@25 | 1730 | 346000 | 20.26 |
| 15 | 20 | DFT-s-OFDM 256QAM | Inner_Full | 50@25 | 1730 | 346000 | 17.93 |
| 15 | 20 | CP-OFDM QPSK | Inner_Full | 53@26 | 1730 | 346000 | 20.52 |
| 15 | 20 | CP-OFDM 16QAM | Inner_Full | 53@26 | 1730 | 346000 | 20.11 |
| 15 | 20 | CP-OFDM 64QAM | Inner_Full | 53@26 | 1730 | 346000 | 19.46 |
| 15 | 20 | CP-OFDM 256QAM | Inner_Full | 53@26 | 1730 | 346000 | 16.19 |
| 15 | 20 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1@105 | 1730 | 346000 | 22.42 |
| 15 | 20 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1@0 | 1730 | 346000 | 22.44 |
| 15 | 20 | DFT-s-OFDM QPSK | Edge_Full_Right | 2@104 | 1730 | 346000 | 22.44 |
| 15 | 20 | DFT-s-OFDM QPSK | Edge_Full_Left | 2@0 | 1730 | 346000 | 22.55 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1@104 | 1730 | 346000 | 22.44 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1@1 | 1730 | 346000 | 22.47 |
| 15 | 20 | DFT-s-OFDM QPSK | Outer_Full | 100@0 | 1730 | 346000 | 22.61 |
| 15 | 10 | DFT-s-OFDM QPSK | Inner_Full | 25@12 | 1730 | 346000 | 22.43 |
| 15 | 15 | DFT-s-OFDM QPSK | Inner_Full | 36@18 | 1730 | 346000 | 22.61 |

| 5G NR n66 ANT4-Power Level C1 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | Power Results (dBm) |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1777.5 | 355500 | 21.51 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1745 | 349000 | 21.53 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1712.5 | 342500 | 21.57 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1760 | 352000 | 21.57 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1745 | 349000 | 21.52 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1730 | 346000 | 21.59 |
| 15 | 20 | DFT-s-OFDM PI/2 BPSK | Inner_Full | 50@25 | 1730 | 346000 | 21.24 |
| 15 | 20 | DFT-s-OFDM 16QAM | Inner_Full | 50@25 | 1730 | 346000 | 21.94 |
| 15 | 20 | DFT-s-OFDM 64QAM | Inner_Full | 50@25 | 1730 | 346000 | 20.24 |
| 15 | 20 | DFT-s-OFDM 256QAM | Inner_Full | 50@25 | 1730 | 346000 | 18.14 |
| 15 | 20 | CP-OFDM QPSK | Inner_Full | 53@26 | 1730 | 346000 | 21.45 |
| 15 | 20 | CP-OFDM 16QAM | Inner_Full | 53@26 | 1730 | 346000 | 21.44 |
| 15 | 20 | CP-OFDM 64QAM | Inner_Full | 53@26 | 1730 | 346000 | 19.56 |
| 15 | 20 | CP-OFDM 256QAM | Inner_Full | 53@26 | 1730 | 346000 | 16.17 |
| 15 | 20 | DFT-s-OFDM 16QAM | Edge_1RB_Right | 1@105 | 1730 | 346000 | 20.79 |
| 15 | 20 | DFT-s-OFDM 16QAM | Edge_1RB_Left | 1@0 | 1730 | 346000 | 20.81 |
| 15 | 20 | DFT-s-OFDM 16QAM | Edge_Full_Right | 2@104 | 1730 | 346000 | 21.07 |
| 15 | 20 | DFT-s-OFDM 16QAM | Edge_Full_Left | 2@0 | 1730 | 346000 | 21.09 |
| 15 | 20 | DFT-s-OFDM 16QAM | Inner_1RB_Right | 1@104 | 1730 | 346000 | 21.33 |
| 15 | 20 | DFT-s-OFDM 16QAM | Inner_1RB_Left | 1@1 | 1730 | 346000 | 21.37 |
| 15 | 20 | DFT-s-OFDM 16QAM | Outer_Full | 100@0 | 1730 | 346000 | 21.33 |
| 15 | 10 | DFT-s-OFDM 16QAM | Inner_Full | 25@12 | 1715 | 343000 | 21.74 |
| 15 | 15 | DFT-s-OFDM 16QAM | Inner_Full | 36@18 | 1717.5 | 343500 | 21.89 |

| 5G NR n66 ANT4-Power Level D1 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | Power Results (dBm) |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1777.5 | 355500 | 19.28 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1745 | 349000 | 19.31 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 1712.5 | 342500 | 19.29 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1760 | 352000 | 19.28 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1745 | 349000 | 19.32 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 1730 | 346000 | 19.34 |
| 15 | 20 | DFT-s-OFDM PI/2 BPSK | Inner_Full | 50@25 | 1730 | 346000 | 19.09 |
| 15 | 20 | DFT-s-OFDM 16QAM | Inner_Full | 50@25 | 1730 | 346000 | 19.64 |
| 15 | 20 | DFT-s-OFDM 64QAM | Inner_Full | 50@25 | 1730 | 346000 | 19.61 |
| 15 | 20 | DFT-s-OFDM 256QAM | Inner_Full | 50@25 | 1730 | 346000 | 18.19 |
| 15 | 20 | CP-OFDM QPSK | Inner_Full | 53@26 | 1730 | 346000 | 17.82 |
| 15 | 20 | CP-OFDM 16QAM | Inner_Full | 53@26 | 1730 | 346000 | 17.75 |
| 15 | 20 | CP-OFDM 64QAM | Inner_Full | 53@26 | 1730 | 346000 | 19.59 |
| 15 | 20 | CP-OFDM 256QAM | Inner_Full | 53@26 | 1730 | 346000 | 16.19 |
| 15 | 20 | DFT-s-OFDM 16QAM | Edge_1RB_Right | 1@105 | 1730 | 346000 | 20.37 |
| 15 | 20 | DFT-s-OFDM 16QAM | Edge_1RB_Left | 1@0 | 1730 | 346000 | 20.35 |
| 15 | 20 | DFT-s-OFDM 16QAM | Edge_Full_Right | 2@104 | 1730 | 346000 | 19.91 |
| 15 | 20 | DFT-s-OFDM 16QAM | Edge_Full_Left | 2@0 | 1730 | 346000 | 19.95 |
| 15 | 20 | DFT-s-OFDM 16QAM | Inner_1RB_Right | 1@104 | 1730 | 346000 | 20.39 |
| 15 | 20 | DFT-s-OFDM 16QAM | Inner_1RB_Left | 1@1 | 1730 | 346000 | 20.41 |
| 15 | 20 | DFT-s-OFDM 16QAM | Outer_Full | 100@0 | 1730 | 346000 | 20.19 |
| 15 | 10 | DFT-s-OFDM 16QAM | Inner_1RB_Left | 1@1 | 1715 | 343000 | 20.25 |
| 15 | 15 | DFT-s-OFDM 16QAM | Inner_1RB_Left | 1@1 | 1717.5 | 343500 | 20.32 |

| 5G NR n41-Power Level A1 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | Power Results (dBm) |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_Full | 25@12 | 2679.99 | 535998 | 25.13 |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_Full | 25@12 | 2636.49 | 527298 | 25.11 |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_Full | 25@12 | 2592.99 | 518598 | 25.36 |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_Full | 25@12 | 2549.51 | 509902 | 25.09 |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_Full | 25@12 | 2506.02 | 501204 | 25.24 |
| 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135@67 | 2640 | 528000 | 25.05 |
| 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135@67 | 2616.51 | 523302 | 25.04 |
| 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135@67 | 2592.99 | 518598 | 25.11 |
| 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135@67 | 2569.5 | 513900 | 25.12 |
| 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135@67 | 2546.01 | 509202 | 25.14 |
| 30 | 20 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 25@12 | 2592.99 | 518598 | 25.05 |
| 30 | 20 | DFT-s-OFDM 16QAM | Inner_Full | 25@12 | 2592.99 | 518598 | 24.35 |
| 30 | 20 | DFT-s-OFDM 64QAM | Inner_Full | 25@12 | 2592.99 | 518598 | 22.52 |
| 30 | 20 | DFT-s-OFDM 256QAM | Inner_Full | 25@12 | 2592.99 | 518598 | 20.89 |
| 30 | 20 | CP-OFDM QPSK | Inner_Full | 25@12 | 2592.99 | 518598 | 24.08 |
| 30 | 20 | CP-OFDM 16QAM | Inner_Full | 25@12 | 2592.99 | 518598 | 23.21 |
| 30 | 20 | CP-OFDM 64QAM | Inner_Full | 25@12 | 2592.99 | 518598 | 21.52 |
| 30 | 20 | CP-OFDM 256QAM | Inner_Full | 25@12 | 2592.99 | 518598 | 19.48 |
| 30 | 20 | DFT-s-OFDM QPSK | Edge_Full_Right | 2@49 | 2592.99 | 518598 | 21.55 |
| 30 | 20 | DFT-s-OFDM QPSK | Edge_Full_Left | 2@0 | 2592.99 | 518598 | 21.62 |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1@49 | 2592.99 | 518598 | 25.01 |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1@1 | 2592.99 | 518598 | 25.02 |
| 30 | 20 | DFT-s-OFDM QPSK | Outer_Full | 50@0 | 2592.99 | 518598 | 24.18 |
| 30 | 40 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 2592.99 | 518598 | 25.01 |
| 30 | 60 | DFT-s-OFDM QPSK | Inner_Full | 81@40 | 2592.99 | 511899 | 25.11 |

| 5G NR n41-Power Level B1/F1 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | Tune up | Power Results (dBm) |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_Full | 25@12 | 2679.99 | 535998 | 21 | 20.45 |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_Full | 25@12 | 2636.49 | 527298 | 21 | 20.07 |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_Full | 25@12 | 2592.99 | 518598 | 21 | 20.09 |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_Full | 25@12 | 2549.51 | 509902 | 21 | 19.42 |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_Full | 25@12 | 2506.02 | 501204 | 21 | 19.51 |
| 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135@67 | 2640 | 528000 | 21 | 19.93 |
| 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135@67 | 2616.51 | 523302 | 21 | 19.89 |
| 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135@67 | 2592.99 | 518598 | 21 | 20.01 |
| 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135@67 | 2569.5 | 513900 | 21 | 19.86 |
| 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135@67 | 2546.01 | 509202 | 21 | 19.74 |
| 30 | 20 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 25@12 | 2679.99 | 535998 | 21 | 20.20 |
| 30 | 20 | DFT-s-OFDM 16QAM | Inner_Full | 25@12 | 2679.99 | 535998 | 21 | 20.24 |
| 30 | 20 | DFT-s-OFDM 64QAM | Inner_Full | 25@12 | 2679.99 | 535998 | 21 | 20.34 |
| 30 | 20 | DFT-s-OFDM 256QAM | Inner_Full | 25@12 | 2679.99 | 535998 | 21 | 20.41 |
| 30 | 20 | CP-OFDM QPSK | Inner_Full | 25@12 | 2679.99 | 535998 | 21 | 19.76 |
| 30 | 20 | CP-OFDM 16QAM | Inner_Full | 25@12 | 2679.99 | 535998 | 21 | 19.73 |
| 30 | 20 | CP-OFDM 64QAM | Inner_Full | 25@12 | 2679.99 | 535998 | 21 | 19.60 |
| 30 | 20 | CP-OFDM 256QAM | Inner_Full | 25@12 | 2679.99 | 535998 | 21 | 19.54 |
| 30 | 20 | DFT-s-OFDM QPSK | Edge_Full_Right | 2@49 | 2679.99 | 535998 | 21 | 20.06 |
| 30 | 20 | DFT-s-OFDM QPSK | Edge_Full_Left | 2@0 | 2679.99 | 535998 | 21 | 19.87 |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1@49 | 2679.99 | 535998 | 21 | 19.89 |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1@1 | 2679.99 | 535998 | 21 | 19.98 |
| 30 | 20 | DFT-s-OFDM QPSK | Outer_Full | 50@0 | 2679.99 | 535998 | 21 | 20.10 |
| 30 | 40 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1@105 | 2670 | 530184 | 21 | 19.43 |
| 30 | 60 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1@161 | 2659.98 | 526164 | 21 | 19.71 |

| 5G NR n41-Power Level C1/D1 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | Tune up | Power Results (dBm) |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_Full | 25@12 | 2679.99 | 535998 | 17 | 16.29 |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_Full | 25@12 | 2636.49 | 527298 | 17 | 15.96 |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_Full | 25@12 | 2592.99 | 518598 | 17 | 16.12 |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_Full | 25@12 | 2549.51 | 509902 | 17 | 15.60 |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_Full | 25@12 | 2506.02 | 501204 | 17 | 15.57 |
| 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135@67 | 2640 | 528000 | 17 | 15.96 |
| 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135@67 | 2616.51 | 523302 | 17 | 15.97 |
| 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135@67 | 2592.99 | 518598 | 17 | 15.95 |
| 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135@67 | 2569.5 | 513900 | 17 | 15.81 |
| 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135@67 | 2546.01 | 509202 | 17 | 15.65 |
| 30 | 20 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 25@12 | 2679.99 | 535998 | 17 | 15.94 |
| 30 | 20 | DFT-s-OFDM 16QAM | Inner_Full | 25@12 | 2679.99 | 535998 | 17 | 16.28 |
| 30 | 20 | DFT-s-OFDM 64QAM | Inner_Full | 25@12 | 2679.99 | 535998 | 17 | 16.27 |
| 30 | 20 | DFT-s-OFDM 256QAM | Inner_Full | 25@12 | 2679.99 | 535998 | 17 | 16.26 |
| 30 | 20 | CP-OFDM QPSK | Inner_Full | 25@12 | 2679.99 | 535998 | 17 | 15.41 |
| 30 | 20 | CP-OFDM 16QAM | Inner_Full | 25@12 | 2679.99 | 535998 | 17 | 15.47 |
| 30 | 20 | CP-OFDM 64QAM | Inner_Full | 25@12 | 2679.99 | 535998 | 17 | 15.31 |
| 30 | 20 | CP-OFDM 256QAM | Inner_Full | 25@12 | 2679.99 | 535998 | 17 | 15.35 |
| 30 | 20 | DFT-s-OFDM QPSK | Edge_Full_Right | 2@49 | 2679.99 | 535998 | 17 | 16.00 |
| 30 | 20 | DFT-s-OFDM QPSK | Edge_Full_Left | 2@0 | 2679.99 | 535998 | 17 | 15.92 |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1@49 | 2679.99 | 535998 | 17 | 15.90 |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1@1 | 2679.99 | 535998 | 17 | 15.83 |
| 30 | 20 | DFT-s-OFDM QPSK | Outer_Full | 50@0 | 2679.99 | 535998 | 17 | 16.11 |
| 30 | 40 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1@105 | 2670 | 530184 | 17 | 15.37 |
| 30 | 60 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1@161 | 2659.98 | 526164 | 17 | 15.69 |

| 5G NR n41-Power Level E1 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | Tune up | Power Results (dBm) |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_Full | 25@12 | 2679.99 | 535998 | 24 | 23.84 |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_Full | 25@12 | 2636.49 | 527298 | 24 | 23.44 |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_Full | 25@12 | 2592.99 | 518598 | 24 | 23.55 |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_Full | 25@12 | 2549.51 | 509902 | 24 | 23.12 |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_Full | 25@12 | 2506.02 | 501204 | 24 | 22.94 |
| 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135@67 | 2640 | 528000 | 24 | 23.56 |
| 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135@67 | 2616.51 | 523302 | 24 | 23.56 |
| 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135@67 | 2592.99 | 518598 | 24 | 23.53 |
| 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135@67 | 2569.5 | 513900 | 24 | 23.37 |
| 30 | 100 | DFT-s-OFDM QPSK | Inner_Full | 135@67 | 2546.01 | 509202 | 24 | 23.32 |
| 30 | 20 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 25@12 | 2679.99 | 535998 | 24 | 23.37 |
| 30 | 20 | DFT-s-OFDM 16QAM | Inner_Full | 25@12 | 2679.99 | 535998 | 23 | 21.82 |
| 30 | 20 | DFT-s-OFDM 64QAM | Inner_Full | 25@12 | 2679.99 | 535998 | 21.5 | 20.71 |
| 30 | 20 | DFT-s-OFDM 256QAM | Inner_Full | 25@12 | 2679.99 | 535998 | 19.5 | 19.02 |
| 30 | 20 | CP-OFDM QPSK | Inner_Full | 25@12 | 2679.99 | 535998 | 22.5 | 21.29 |
| 30 | 20 | CP-OFDM 16QAM | Inner_Full | 25@12 | 2679.99 | 535998 | 22 | 21.35 |
| 30 | 20 | CP-OFDM 64QAM | Inner_Full | 25@12 | 2679.99 | 535998 | 20.5 | 18.81 |
| 30 | 20 | CP-OFDM 256QAM | Inner_Full | 25@12 | 2679.99 | 535998 | 17.5 | 16.55 |
| 30 | 20 | DFT-s-OFDM QPSK | Edge_Full_Right | 2@49 | 2679.99 | 535998 | 23 | 19.82 |
| 30 | 20 | DFT-s-OFDM QPSK | Edge_Full_Left | 2@0 | 2679.99 | 535998 | 23 | 19.76 |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1@49 | 2679.99 | 535998 | 24 | 23.55 |
| 30 | 20 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1@1 | 2679.99 | 535998 | 24 | 23.51 |
| 30 | 20 | DFT-s-OFDM QPSK | Outer_Full | 50@0 | 2679.99 | 535998 | 23 | 22.60 |
| 30 | 40 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 2670 | 530184 | 24 | 23.35 |
| 30 | 60 | DFT-s-OFDM QPSK | Inner_Full | 81@40 | 2659.98 | 526164 | 24 | 23.35 |

| 5G NR n71-Power Level A1/B1/C1/D1/E1/F1 | | | | | | | |
|---|---|---|---|---|---|---|---|
| SCS (kHz) | NR BW (MHz) | Modulation | RB allocation | | NR Test Freq. (MHz) | NR Test CH. | Power Results (dBm) |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 695.5 | 139100 | 22.72 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 680.5 | 136100 | 22.76 |
| 15 | 5 | DFT-s-OFDM QPSK | Inner_Full | 12@6 | 665.5 | 133100 | 22.70 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 688 | 137600 | 22.74 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 680.5 | 136100 | 22.83 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_Full | 50@25 | 673 | 134600 | 22.64 |
| 15 | 20 | DFT-s-OFDM PI/2 BPSK1 | Inner_Full | 50@25 | 680.5 | 136100 | 22.43 |
| 15 | 20 | DFT-s-OFDM 16QAM | Inner_Full | 50@25 | 680.5 | 136100 | 22.50 |
| 15 | 20 | DFT-s-OFDM 64QAM | Inner_Full | 50@25 | 680.5 | 136100 | 20.50 |
| 15 | 20 | DFT-s-OFDM 256QAM | Inner_Full | 50@25 | 680.5 | 136100 | 18.22 |
| 15 | 20 | CP-OFDM QPSK | Inner_Full | 53@26 | 680.5 | 136100 | 21.81 |
| 15 | 20 | CP-OFDM 16QAM | Inner_Full | 53@26 | 680.5 | 136100 | 21.40 |
| 15 | 20 | CP-OFDM 64QAM | Inner_Full | 53@26 | 680.5 | 136100 | 19.84 |
| 15 | 20 | CP-OFDM 256QAM | Inner_Full | 53@26 | 680.5 | 136100 | 16.31 |
| 15 | 20 | DFT-s-OFDM QPSK | Edge_1RB_Right | 1@105 | 680.5 | 136100 | 22.81 |
| 15 | 20 | DFT-s-OFDM QPSK | Edge_1RB_Left | 1@0 | 680.5 | 136100 | 22.81 |
| 15 | 20 | DFT-s-OFDM QPSK | Edge_Full_Right | 2@104 | 680.5 | 136100 | 22.82 |
| 15 | 20 | DFT-s-OFDM QPSK | Edge_Full_Left | 2@0 | 680.5 | 136100 | 22.79 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_1RB_Right | 1@104 | 680.5 | 136100 | 22.81 |
| 15 | 20 | DFT-s-OFDM QPSK | Inner_1RB_Left | 1@1 | 680.5 | 136100 | 22.77 |
| 15 | 20 | DFT-s-OFDM QPSK | Outer_Full | 100@0 | 680.5 | 136100 | 22.80 |
| 15 | 10 | DFT-s-OFDM QPSK | Inner_Full | 25@12 | 680.5 | 136100 | 22.72 |
| 15 | 15 | DFT-s-OFDM QPSK | Inner_Full | 36@18 | 680.5 | 136100 | 22.94 |

## 11.5 Wi-Fi and BT Measurement result

The maximum output power of BT antenna is 11.9dBm.
The maximum tune up of BT antenna is 12dBm.

**Table11.5: Summary of Receiver detection mechanism-WiFi antenna**

| Antenna | Receiver off+ Sensor off (DSI0) | Receiver off+ Hotspot on (DSI1) | Receiver on+ WWAN off (DSI2) | Receiver on+ WWAN on (DSI3) | Receiver off+ sensor on+ Hotspot off+ WWAN off (DSI4) | Receiver off+ sensor on+ Hotspot off+ WWAN on (DSI5) |
|---|---|---|---|---|---|---|
| WLAN Antenna | Power Level A1 | Power Level B1 | Power Level C1 | Power Level D1 | Power Level E1 | Power Level F1 |

**The average conducted power for Wi-Fi 2.4G is as following:**

Power Level A1

| 802.11b | | |
|---|---|---|
| Channel\data rate | 1Mbps | Tune up |
| 11(2462MHz) | 21.31 | 22.00 |
| 6(2437(MHz) | 21.65 | 22.50 |
| 1(2412MHz) | 21.25 | 22.00 |
| 802.11g | | |
| Channel\data rate | 6Mbps | Tune up |
| 11(2462MHz) | 20.51 | 21.50 |
| 6(2437(MHz) | 20.72 | 21.50 |
| 1(2412MHz) | 20.45 | 21.50 |
| 802.11n-20MHz | | |
| Channel\data rate | MCS0 | Tune up |
| 11(2462MHz) | 19.98 | 21.00 |
| 6(2437(MHz) | 20.22 | 21.50 |
| 1(2412MHz) | 19.93 | 21.00 |

Power Level B1/D1/F1

| 802.11b | | |
|---|---|---|
| Channel\data rate | 1Mbps | Tune up |
| 11(2462MHz) | 16.63 | 17.00 |
| 6(2437(MHz) | 16.95 | 17.50 |
| 1(2412MHz) | 16.24 | 17.00 |
| 802.11g | | |
| Channel\data rate | 6Mbps | Tune up |
| 11(2462MHz) | 15.71 | 16.50 |
| 6(2437(MHz) | 16.22 | 16.50 |
| 1(2412MHz) | 15.77 | 16.50 |
| 802.11n-20MHz | | |
| Channel\data rate | MCS0 | Tune up |
| 11(2462MHz) | 15.07 | 16.00 |
| 6(2437(MHz) | 15.64 | 16.00 |
| 1(2412MHz) | 15.31 | 16.00 |

Power Level C1/E1

| 802.11b | | |
|---|---|---|
| Channel\data rate | 1Mbps | Tune up |
| 11(2462MHz) | 18.53 | 19.00 |
| 6(2437(MHz) | 18.90 | 19.50 |
| 1(2412MHz) | 18.24 | 19.00 |
| 802.11g | | |
| Channel\data rate | 6Mbps | Tune up |
| 11(2462MHz) | 18.11 | 19.00 |
| 6(2437(MHz) | 18.59 | 19.00 |
| 1(2412MHz) | 18.23 | 19.00 |
| 802.11n-20MHz | | |
| Channel\data rate | MCS0 | Tune up |
| 11(2462MHz) | 18.06 | 19.00 |
| 6(2437(MHz) | 18.45 | 19.00 |
| 1(2412MHz) | 18.13 | 19.00 |

**The average conducted power for Wi-Fi 5G is as following:**

Power Level A1:

| 802.11n(dBm)-20MHz | |
|---|---|
| Channel\data rate | 6Mbps |
| 36(5180 MHz) | 19.00 |
| 40(5200 MHz) | 18.92 |
| 44(5220 MHz) | 18.96 |
| 48(5240 MHz) | 19.12 |
| 52(5260 MHz) | 19.52 |
| 56(5280 MHz) | 19.53 |
| 60(5300 MHz) | 19.68 |
| 64(5320 MHz) | 19.58 |
| Tune up | 20.50 |
| 100(5500 MHz) | 19.30 |
| 104(5520 MHz) | 19.51 |
| 108(5540 MHz) | 19.42 |
| 112(5560 MHz) | 19.35 |
| 116(5580 MHz) | 19.41 |
| 120(5600 MHz) | 19.66 |
| 124(5620 MHz) | 19.84 |
| 128(5640 MHz) | 20.05 |
| 132(5660 MHz) | 20.19 |
| 136(5680 MHz) | 20.33 |
| 140(5700 MHz) | 18.40 |
| 144(5720 MHz) | 19.95 |
| 149(5745 MHz) | 19.75 |
| 153(5765 MHz) | 19.78 |
| 157(5785 MHz) | 20.08 |
| 161(5805 MHz) | 20.17 |
| 165(5825 MHz) | 20.35 |
| Tune up | 21.00 |

Remark: The tune up for CH140 is 19.5dBm

Power Level B1/C1/F1:

| 802.11n(dBm)-20MHz | |
|---|---|
| Channel\data rate | 6Mbps |
| 36(5180 MHz) | 14.16 |
| 40(5200 MHz) | 14.07 |
| 44(5220 MHz) | 14.01 |
| 48(5240 MHz) | 14.10 |
| 52(5260 MHz) | 14.20 |
| 56(5280 MHz) | 14.68 |
| 60(5300 MHz) | 14.83 |
| 64(5320 MHz) | **14.37** |
| Tune up | 15.00 |
| 100(5500 MHz) | 14.89 |
| 104(5520 MHz) | **14.72** |
| 108(5540 MHz) | 14.70 |
| 112(5560 MHz) | 14.61 |
| 116(5580 MHz) | 14.63 |
| 120(5600 MHz) | 14.67 |
| 124(5620 MHz) | 15.02 |
| 128(5640 MHz) | 15.31 |
| 132(5660 MHz) | 15.32 |
| 136(5680 MHz) | 15.68 |
| 140(5700 MHz) | 13.13 |
| 144(5720 MHz) | 15.33 |
| 149(5745 MHz) | 15.18 |
| 153(5765 MHz) | 14..75 |
| 157(5785 MHz) | 15.26 |
| 161(5805 MHz) | **15.36** |
| 165(5825 MHz) | 15.77 |
| Tune up | 16.00 |

Remark: The tune up for CH140 is 14dBm

Power Level D1:

| 802.11n(dBm)-20MHz | |
|---|---|
| Channel\data rate | 6Mbps |
| 36(5180 MHz) | 11.99 |
| 40(5200 MHz) | 11.43 |
| 44(5220 MHz) | 11.83 |
| 48(5240 MHz) | 11.77 |
| Tune up | 12.50 |
| 52(5260 MHz) | 12.05 |
| 56(5280 MHz) | 12.32 |
| 60(5300 MHz) | 12.40 |
| 64(5320 MHz) | 12.48 |
| 100(5500 MHz) | 12.52 |
| 104(5520 MHz) | 11.99 |
| 108(5540 MHz) | 12.27 |
| 112(5560 MHz) | 11.68 |
| 116(5580 MHz) | 11.77 |
| 120(5600 MHz) | 11.74 |
| 124(5620 MHz) | 12.09 |
| 128(5640 MHz) | 12.32 |
| 132(5660 MHz) | 12.49 |
| 136(5680 MHz) | 12.89 |
| 140(5700 MHz) | 11.86 |
| 144(5720 MHz) | 12.73 |
| 149(5745 MHz) | 12.54 |
| 153(5765 MHz) | 12.61 |
| 157(5785 MHz) | 12.60 |
| 161(5805 MHz) | 12.68 |
| 165(5825 MHz) | 12.91 |
| Tune up | 13.00 |

Remark: The tune up for CH140 is 12dBm

Power Level E1:

| 802.11n(dBm)-20MHz | |
|---|---|
| Channel\data rate | 6Mbps |
| 36(5180 MHz) | 17.30 |
| 40(5200 MHz) | 17.24 |
| 44(5220 MHz) | 17.03 |
| 48(5240 MHz) | 17.07 |
| 52(5260 MHz) | 17.55 |
| 56(5280 MHz) | 17.67 |
| 60(5300 MHz) | 17.72 |
| 64(5320 MHz) | 17.56 |
| Tune up | 18.00 |
| 100(5500 MHz) | 18.31 |
| 104(5520 MHz) | 18.56 |
| 108(5540 MHz) | 18.25 |
| 112(5560 MHz) | 17.99 |
| 116(5580 MHz) | 17.75 |
| 120(5600 MHz) | 17.92 |
| 124(5620 MHz) | 17.89 |
| 128(5640 MHz) | 18.45 |
| 132(5660 MHz) | 18.73 |
| 136(5680 MHz) | 18.38 |
| 140(5700 MHz) | 16.30 |
| 144(5720 MHz) | 18.34 |
| 149(5745 MHz) | 17.70 |
| 153(5765 MHz) | 18.12 |
| 157(5785 MHz) | 18.17 |
| 161(5805 MHz) | 18.31 |
| 165(5825 MHz) | 18.65 |
| Tune up | 19.00 |

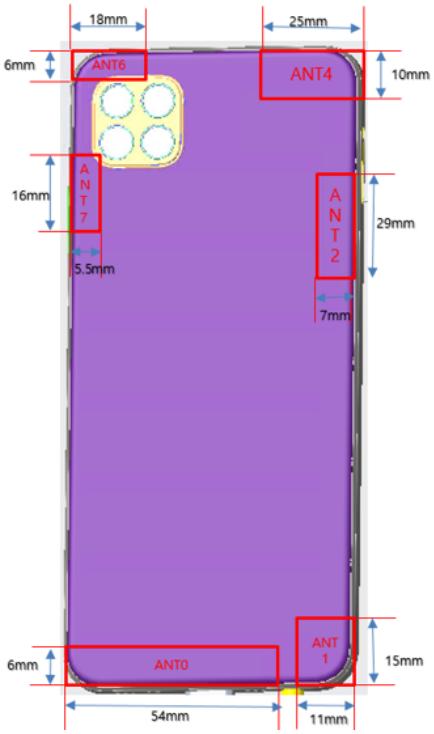
Remark: The tune up for CH140 is 17dBm

# 12 Simultaneous TX SAR Considerations

## 12.1 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 802.11 a/b/g and Bluetooth devices which may simultaneously transmit with the licensed transmitter.
For this device, the BT and Wi-Fi can transmit simultaneous with other transmitters.

## 12.2 Transmit Antenna Separation Distances




| Antenna | Mode | Band |
|---|---|---|
| 0 | GSM | B5/B8 |
| | WCDMA | B5 |
| | LTE | 4G:B5/B7/B8/B12/B13/B20/B26/B28/B38/B40/B41/B71 |
| | NR | n41/n71 |
| 1 | GSM | B2/B3 |
| | WCDMA | B1/B2/B4 |
| | LTE | B1/B2/B3/B4/B25/B66 |
| | NR | n25/n66 |
| 2 | NR | n25/n41/n66 RX MIMO |
| 4 | GSM | B2/B3/B5/B8 2nd RX |
| | WCDMA | B1/B2/B4/B5 2nd RX |
| | LTE | 4G:B1/B2/B3/B4/B5/B7/B8/B12/B13/B20/B25/B26/B28/B38/B40/B41/B66/B71 2nd RX |
| | NR | n25/n66/n71 2nd RX /n41 |
| 6 | GNSS | L1 (1575.42MHz) |
| | WIFI | 2.4GHz/5GHz TX,RX |
| 7 | NR | n25/n41/n66 RX MIMO |

**Picture 12.1 Antenna Locations**

## 12.3 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.

| SAR measurement positions | | | | | | |
|---|---|---|---|---|---|---|
| Mode | Front | Rear | Left edge | Right edge | Top edge | Bottom edge |
| ANT0 | Yes | Yes | Yes | Yes | No | Yes |
| ANT1 | Yes | Yes | Yes | No | No | Yes |
| ANT4 | Yes | Yes | Yes | No | Yes | No |
| ANT6 | Yes | Yes | No | Yes | Yes | No |

## 12.4 Standalone SAR Test Exclusion Considerations

Standalone 1-g head or body SAR evaluation by measurement or numerical simulation is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied. The 1-g SAR test exclusion threshold for 100 MHz to 6 GHz at test separation distances≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

**Table 12.1: Standalone SAR test exclusion considerations**

| Band/Mode | F(GHz) | Position | SAR test exclusion threshold(mW) | RF output power | | SAR test exclusion |
|---|---|---|---|---|---|---|
| | | | | dBm | mW | |
| Bluetooth | 2.441 | Head | 9.60 | 12 | 15.85 | No |
| | | Body | 19.20 | 12 | 15.85 | Yes |
| 2.4GHz WLAN | 2.45 | Head | 9.58 | 19.5 | 89.13 | No |
| | | Body | 19.17 | 22.5 | 177.83 | No |
| 5GHz WLAN | 5.2 | Head | 6.58 | 15 | 31.62 | No |
| | | Body | 13.16 | 20.5 | 112.2 | No |
| | 5.3 | Head | 6.52 | 15 | 31.62 | No |
| | | Body | 13.03 | 20.5 | 112.2 | No |
| | 5.6 | Head | 6.34 | 16 | 39.81 | No |
| | | Body | 12.68 | 21 | 125.89 | No |
| | 5.8 | Head | 6.23 | 16 | 39.81 | No |
| | | Body | 12.46 | 21 | 125.89 | No |

# 13 Evaluation of Simultaneous

**Table 13.1: The sum of SAR values for Main antenna + WiFi-2.4G**

| | Position | Main antenna | WiFi-2.4G | Sum |
|---|---|---|---|---|
| **Highest SAR value for Head** | Left head, Tilt (ENDC 66A-n25A) | 0.78 | 0.56 | **1.34** |
| **Highest SAR value for Body** | Rear 10mm (ULCA 2A-12A) | 1.05 | 0.33 | **1.38** |

**Table 13.2: The sum of SAR values for Main antenna + WiFi-5G**

| | Position | Main antenna | WiFi-5G | Sum |
|---|---|---|---|---|
| **Highest SAR value for Head** | Left head, Tilt (ENDC 66A-n25A) | 0.78 | 0.75 | **1.53** |
| **Highest SAR value for Body** | Rear 15mm (ENDC 66A-n41A) | 0.99 | 0.40 | **1.39** |

**Table 13.3: The sum of SAR values for Main antenna +BT**

| | Position | Main antenna | BT | Sum |
|---|---|---|---|---|
| **Highest SAR value for Head** | Right head, Touch (ENDC 2A-n41A) | 0.94 | <0.01 | **0.94** |
| **Highest SAR value for Body** | Rear 10mm (ENDC 12A-n25A) | 1.02 | <0.01 | **1.02** |

**Table 13.4: The sum of SAR values for Main antenna + Wifi2.4G +BT**

| | Position | Main antenna | WiFi-2.4G | BT | Sum |
|---|---|---|---|---|---|
| **Highest SAR value for Head** | Left head, Tilt (ENDC 66A-n25A) | 0.78 | 0.56 | <0.01 | **1.34** |
| **Highest SAR value for Body** | Rear 10mm (ULCA 2A-12A) | 1.05 | 0.33 | <0.01 | **1.38** |

**Table 13.5: The sum of SAR values for Main antenna + Wifi5G +BT**

| | Position | Main antenna | WiFi-5G | BT | Sum |
|---|---|---|---|---|---|
| **Highest SAR value for Head** | Left head, Tilt (ENDC 66A-n25A) | 0.78 | 0.75 | <0.01 | **1.53** |
| **Highest SAR value for Body** | Rear 15mm (ENDC 66A-n41A) | 0.99 | 0.40 | <0.01 | **1.39** |

**Table 13.6: The SAR values for UL CA**

| LTE Band | LTE Band | Mode | Position | Reported SAR 1g(W/kg) |
|---|---|---|---|---|
| LTE Band 2-ANT4 | LTE Band 12-ANT0 | Head | Right Tilt | **0.83(0.67+0.16)** |
| | | Body | Rear 10mm | **1.05(0.71+0.34)** |
| LTE Band 12-ANT0 | LTE Band 66-ANT4 | Head | Right Tilt | **0.54(0.16+0.38)** |
| | | Body | Rear 10mm | **0.55(0.34+0.21)** |

**Table 13.7: The SAR values for ENDC**

| LTE | NR | Mode | Position | Reported SAR 1g(W/kg) |
|---|---|---|---|---|
| LTE Band 2-ANT1 | n41 | Head | Right Tilt | **0.94(0.26+0.68)** |
| | | Body | Rear 15mm | **0.87(0.46+0.41)** |
| | n66-ANT4 | Head | Left Cheek | **0.64(0.48+0.18)** |
| | | Body | Rear 15mm | **0.60(0.46+0.14)** |
| LTE Band 2-ANT4 | n71 | Head | Right Tilt | **0.67(0.67+0.00)** |
| | | Body | Rear 10mm | **0.87(0.71+0.16)** |
| LTE Band 12 | n25-ANT4 | Head | Right Tilt | **0.91(0.16+0.75)** |
| | | Body | Rear 10mm | **1.02(0.34+0.68)** |
| | n66-ANT4 | Head | Right Tilt | **0.54(0.16+0.38)** |
| | | Body | Rear 10mm | **0.55(0.34+0.21)** |
| LTE Band 66-ANT1 | n25-ANT4 | Head | Right Tilt | **0.92(0.17+0.75)** |
| | | Body | Rear 10mm | **0.95(0.27+0.68)** |
| | n41 | Head | Right Tilt | **0.85(0.17+0.68)** |
| | | Body | Rear 15mm | **0.99(0.58+0.41)** |
| LTE Band 66-ANT4 | n71 | Head | Right Cheek | **0.41(0.34+0.07)** |
| | | Body | Rear 10mm | **0.37(0.21+0.16)** |

**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

It is determined by user manual for the distance between the EUT and the phantom bottom.
The distance is 10 mm and just applied to the condition of body worn accessory.
It is performed for all SAR measurements with area scan based 1-g SAR estimation (Fast SAR). A zoom scan measurement is added when the estimated 1-g SAR is the highest measured SAR in each exposure configuration, wireless mode and frequency band combination or more than 1.2W/kg.
The calculated SAR is obtained by the following formula:

$$\text{Reported SAR} = \text{Measured SAR} \times 10^{(P_{Target}-P_{Measured})/10}$$

Where $P_{Target}$ is the power of manufacturing upper limit;
$P_{Measured}$ is the measured power in chapter 11.

**Table 14.1: Duty Cycle**

| Mode | Duty Cycle |
|---|---|
| GSM850/1900 | 1:8.3 or 1:2 |
| WCDMA&LTE FDD&5G NR | 1:1 |
| LTE TDD | 1:1.58 or 1:2.37 |

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

**Table 14.1-1: SAR Values (GSM 850 MHz Band – Head)**

| Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 190 | 836.6 | Left | Cheek | / | 32.31 | 33.50 | 0.119 | **0.16** | 0.153 | **0.20** | 0.08 |
| 190 | 836.6 | Left | Tilt | / | 32.31 | 33.50 | 0.105 | **0.14** | 0.132 | **0.17** | 0.11 |
| 251 | 848.8 | Right | Cheek | / | 32.34 | 33.50 | 0.113 | **0.15** | 0.147 | **0.19** | -0.02 |
| 190 | 836.6 | Right | Cheek | Fig.1 | 32.31 | 33.50 | 0.145 | **0.19** | 0.189 | **0.25** | 0.03 |
| 128 | 824.2 | Right | Cheek | / | 32.25 | 33.50 | 0.128 | **0.17** | 0.166 | **0.22** | 0.09 |
| 190 | 836.6 | Right | Tilt | / | 32.31 | 33.50 | 0.107 | **0.14** | 0.135 | **0.18** | -0.01 |

**Table 14.1-2: SAR Values (GSM 850 MHz Band - Body)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode (number of timeslots) | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 190 | 836.6 | GPRS (4) | Front | / | 28.58 | 29.50 | 0.191 | **0.24** | 0.325 | **0.40** | 0.07 |
| 251 | 848.8 | GPRS (4) | Rear | / | 28.68 | 29.50 | 0.259 | **0.31** | 0.512 | **0.62** | -0.01 |
| 190 | 836.6 | GPRS (4) | Rear | Fig.2 | 28.58 | 29.50 | 0.341 | **0.42** | 0.600 | **0.74** | -0.04 |
| 128 | 824.2 | GPRS (4) | Rear | / | 28.44 | 29.50 | 0.215 | **0.27** | 0.394 | **0.50** | -0.11 |
| 190 | 836.6 | GPRS (4) | Left | / | 28.58 | 29.50 | 0.084 | **0.10** | 0.130 | **0.16** | 0.07 |
| 190 | 836.6 | GPRS (4) | Right | / | 28.58 | 29.50 | 0.089 | **0.11** | 0.142 | **0.18** | 0.04 |
| 190 | 836.6 | GPRS (4) | Bottom | / | 28.58 | 29.50 | 0.159 | **0.20** | 0.373 | **0.46** | -0.09 |
| 190 | 836.6 | EGPRS (4) | Rear | / | 28.58 | 29.50 | 0.285 | **0.35** | 0.546 | **0.67** | 0.15 |

Note: The distance between the EUT and the phantom bottom is 10mm.

**Table 14.1-3: SAR Values (GSM 1900 MHz Band - Head)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 512 | 1850.2 | Left | Cheek | Fig.3 | 29.26 | 30.50 | 0.115 | **0.15** | 0.174 | **0.23** | 0.03 |
| 661 | 1880 | Left | Cheek | / | 29.29 | 30.50 | 0.108 | **0.14** | 0.168 | **0.22** | 0.09 |
| 810 | 1909.8 | Left | Cheek | / | 29.30 | 30.50 | 0.103 | **0.14** | 0.163 | **0.21** | -0.01 |
| 661 | 1880 | Left | Tilt | / | 29.29 | 30.50 | 0.043 | **0.06** | 0.070 | **0.09** | 0.07 |
| 661 | 1880 | Right | Cheek | / | 29.29 | 30.50 | 0.063 | **0.08** | 0.097 | **0.13** | -0.02 |
| 661 | 1880 | Right | Tilt | / | 29.29 | 30.50 | 0.046 | **0.06** | 0.077 | **0.10** | -0.01 |

**Table 14.1-4: SAR Values (GSM 1900 MHz Band – Body worn)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode (number of timeslots) | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g)( W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 661 | 1880 | GPRS (4) | Front | / | 25.53 | 26.50 | 0.128 | **0.16** | 0.214 | **0.27** | 0.13 |
| 661 | 1880 | GPRS (4) | Rear | / | 25.53 | 26.50 | 0.160 | **0.20** | 0.274 | **0.34** | 0.12 |
| 512 | 1850.2 | GPRS (4) | Rear | Fig.4 | 25.44 | 26.50 | 0.197 | **0.25** | 0.333 | **0.43** | 0.11 |
| 810 | 1909.8 | GPRS (4) | Rear | / | 25.62 | 26.50 | 0.112 | **0.14** | 0.188 | **0.23** | 0.06 |
| 512 | 1850.2 | EGPRS (4) | Rear | / | 25.46 | 26.50 | 0.181 | **0.23** | 0.312 | **0.40** | 0.03 |

Note1: The distance between the EUT and the phantom bottom is 15mm

**Table 14.1-5: SAR Values (GSM 1900 MHz Band – Hotspot)**

| Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode (number of timeslots) | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g)(W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 661 | 1880 | GPRS (4) | Front | / | 23.79 | 24.50 | 0.164 | **0.19** | 0.268 | **0.32** | -0.07 |
| 512 | 1850.2 | GPRS (4) | Rear | Fig.5 | 23.57 | 24.50 | 0.270 | **0.33** | 0.477 | **0.59** | 0.07 |
| 661 | 1880 | GPRS (4) | Rear | / | 23.79 | 24.50 | 0.264 | **0.31** | 0.463 | **0.55** | 0.08 |
| 810 | 1909.8 | GPRS (4) | Rear | / | 23.87 | 24.50 | 0.187 | **0.22** | 0.316 | **0.37** | 0.09 |
| 661 | 1880 | GPRS (4) | Left | / | 23.79 | 24.50 | 0.174 | **0.20** | 0.302 | **0.36** | -0.01 |
| 661 | 1880 | GPRS (4) | Top | / | 23.79 | 24.50 | 0.192 | **0.23** | 0.328 | **0.39** | -0.11 |
| 512 | 1850.2 | EGPRS (4) | Rear | | 23.57 | 24.50 | 0.234 | **0.29** | 0.455 | **0.56** | -0.15 |

Note1: The distance between the EUT and the phantom bottom is 10mm

**Table 14.1-6: SAR Values (WCDMA 1900 MHz Band - Head)**

| Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g)(W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 9538 | 1907.6 | Left | Cheek | / | 22.23 | 24.00 | 0.208 | **0.31** | 0.321 | **0.48** | -0.02 |
| 9400 | 1880 | Left | Cheek | / | 22.38 | 24.00 | 0.214 | **0.31** | 0.326 | **0.47** | 0.12 |
| 9262 | 1852.4 | Left | Cheek | Fig.6 | 22.42 | 24.00 | 0.223 | **0.32** | 0.339 | **0.49** | -0.04 |
| 9400 | 1880 | Left | Tilt | / | 22.38 | 24.00 | 0.048 | **0.07** | 0.077 | **0.11** | 0.02 |
| 9400 | 1880 | Right | Cheek | / | 22.38 | 24.00 | 0.138 | **0.20** | 0.213 | **0.31** | -0.17 |
| 9400 | 1880 | Right | Tilt | / | 22.38 | 24.00 | 0.120 | **0.17** | 0.200 | **0.29** | 0.12 |

**Table 14.1-7: SAR Values (WCDMA 1900 MHz Band – Body worn)**

| Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 9538 | 1907.6 | Front | / | 22.23 | 24.00 | 0.136 | **0.20** | 0.202 | **0.30** | 0.05 |
| 9400 | 1880 | Front | / | 22.38 | 24.00 | 0.173 | **0.25** | 0.259 | **0.38** | 0.01 |
| 9262 | 1852.4 | Front | Fig.7 | 22.42 | 24.00 | 0.203 | **0.29** | 0.304 | **0.44** | 0.01 |
| 9400 | 1880 | Rear | / | 22.38 | 24.00 | 0.200 | **0.29** | 0.229 | **0.33** | 0.03 |

Note1: The distance between the EUT and the phantom bottom is 15mm

**Table 14.1-8: SAR Values (WCDMA 1900 MHz Band - Hotspot)**

| Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 9400 | 1880 | Front | / | 17.60 | 19.00 | 0.113 | **0.16** | 0.189 | **0.26** | 0.05 |
| 9538 | 1907.6 | Rear | / | 17.36 | 19.00 | 0.153 | **0.22** | 0.268 | **0.39** | -0.1 |
| 9400 | 1880 | Rear | / | 17.60 | 19.00 | 0.158 | **0.22** | 0.279 | **0.39** | -0.06 |
| 9262 | 1852.4 | Rear | Fig.8 | 17.56 | 19.00 | 0.160 | **0.22** | 0.286 | **0.40** | 0.17 |
| 9400 | 1880 | Left | / | 17.60 | 19.00 | 0.100 | **0.14** | 0.198 | **0.27** | 0.2 |
| 9400 | 1880 | Bottom | / | 17.60 | 19.00 | 0.127 | **0.18** | 0.219 | **0.30** | -0.06 |

Note1: The distance between the EUT and the phantom bottom is 10mm

**Table 14.1-9: SAR Values (WCDMA 1700 MHz Band - Head)**

| Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 1513 | 1752.6 | Left | Cheek | / | 22.10 | 24.00 | 0.236 | **0.37** | 0.352 | **0.55** | -0.08 |
| 1513 | 1752.6 | Left | Cheek | **Fig**.9 | 22.10 | 24.00 | 0.242 | **0.37** | 0.360 | **0.56** | 0.13 |
| 1312 | 1712.4 | Left | Cheek | **/** | 22.08 | 24.00 | 0.156 | **0.24** | 0.234 | **0.36** | 0.18 |
| 1412 | 1732.4 | Left | Tilt | **/** | 22.04 | 24.00 | 0.129 | **0.20** | 0.193 | **0.30** | 0.03 |
| 1412 | 1732.4 | Right | Cheek | / | 22.04 | 24.00 | 0.227 | **0.36** | 0.342 | **0.54** | -0.19 |
| 1412 | 1732.4 | Right | Tilt | / | 22.04 | 24.00 | 0.087 | **0.14** | 0.133 | **0.21** | -0.04 |

**Table 14.1-10: SAR Values (WCDMA 1700 MHz Band – Body worn)**

| Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 1412 | 1732.5 | Front | / | 22.04 | 24.00 | 0.201 | **0.32** | 0.300 | **0.47** | 0.03 |
| 1513 | 1752.6 | Rear | / | 22.10 | 24.00 | 0.261 | **0.40** | 0.391 | **0.61** | -0.11 |
| 1412 | 1732.5 | Rear | **Fig**.10 | 22.04 | 24.00 | 0.278 | **0.44** | 0.417 | **0.65** | 0.18 |
| 1312 | 1712.4 | Rear | / | 22.08 | 24.00 | 0.198 | **0.31** | 0.297 | **0.46** | 0.03 |

Note1: The distance between the EUT and the phantom bottom is 15mm

**Table 14.1-11: SAR Values (WCDMA 1700 MHz Band - Hotspot)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 1412 | 1732.5 | Front | / | 17.20 | 19.00 | 0.120 | **0.18** | 0.183 | **0.28** | -0.04 |
| 1513 | 1752.6 | Rear | / | 17.26 | 19.00 | 0.151 | **0.23** | 0.265 | **0.40** | 0.05 |
| 1412 | 1732.5 | Rear | Fig.11 | 17.20 | 19.00 | 0.166 | **0.25** | 0.277 | **0.42** | 0.06 |
| 1312 | 1712.4 | Rear | / | 17.25 | 19.00 | 0.110 | **0.16** | 0.178 | **0.27** | 0.03 |
| 1412 | 1732.5 | Left | / | 17.20 | 19.00 | 0.110 | **0.17** | 0.181 | **0.27** | 0.02 |
| 1413 | 1733.5 | Bottom | / | 17.20 | 19.00 | 0.139 | **0.21** | 0.226 | **0.34** | 0.13 |

Note1: The distance between the EUT and the phantom bottom is 10mm

**Table 14.1-12: SAR Values (WCDMA 850 MHz Band - Head)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 4183 | 836.6 | Left | Cheek | / | 22.24 | 24.00 | 0.143 | **0.21** | 0.182 | **0.27** | 0.05 |
| 4183 | 836.6 | Left | Tilt | / | 22.24 | 24.00 | 0.082 | **0.12** | 0.100 | **0.15** | 0.01 |
| 4132 | 826.4 | Right | Cheek | / | 22.27 | 24.00 | 0.175 | **0.26** | 0.225 | **0.34** | 0.01 |
| 4183 | 836.6 | Right | Cheek | Fig.12 | 22.24 | 24.00 | 0.182 | **0.27** | 0.234 | **0.35** | 0.03 |
| 4233 | 846.6 | Right | Cheek | / | 22.20 | 24.00 | 0.165 | **0.25** | 0.213 | **0.32** | 0.01 |
| 4183 | 836.6 | Right | Tilt | / | 22.24 | 24.00 | 0.092 | **0.14** | 0.113 | **0.17** | 0.05 |

**Table 14.1-13: SAR Values (WCDMA 850 MHz Band - Body)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 4183 | 836.6 | Front | / | 22.24 | 24.00 | 0.167 | **0.25** | 0.273 | **0.41** | 0.08 |
| 4233 | 846.6 | Rear | / | 22.20 | 24.00 | 0.203 | **0.31** | 0.354 | **0.54** | 0.01 |
| 4183 | 836.6 | Rear | Fig.13 | 22.24 | 24.00 | 0.235 | **0.35** | 0.409 | **0.61** | 0.07 |
| 4132 | 826.4 | Rear | / | 22.27 | 24.00 | 0.222 | **0.33** | 0.385 | **0.57** | -0.04 |
| 4183 | 836.6 | Left | / | 22.24 | 24.00 | 0.027 | **0.04** | 0.041 | **0.06** | -0.06 |
| 4183 | 836.6 | Right | / | 22.24 | 24.00 | 0.098 | **0.15** | 0.149 | **0.22** | 0.17 |
| 4183 | 836.6 | Bottom | / | 22.24 | 24.00 | 0.134 | **0.20** | 0.287 | **0.43** | 0.12 |

Note: The distance between the EUT and the phantom bottom is 10mm.

**Table 14.1-14: SAR Values (LTE Band2 ANT1- Head)**

| Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 19100 | 1900 | 1RB_Mid | Left | Cheek | Fig.14 | 22.67 | 24.00 | 0.221 | **0.30** | 0.341 | **0.46** | -0.03 |
| 19100 | 1900 | 1RB_Mid | Left | Tilt | / | 22.67 | 24.00 | 0.126 | **0.17** | 0.197 | **0.27** | -0.08 |
| 19100 | 1900 | 1RB_Mid | Right | Cheek | / | 22.67 | 24.00 | 0.147 | **0.20** | 0.221 | **0.30** | 0.06 |
| 19100 | 1900 | 1RB_Mid | Right | Tilt | / | 22.67 | 24.00 | 0.115 | **0.16** | 0.188 | **0.26** | 0.18 |
| 19100 | 1900 | 50RB-Low | Left | Cheek | / | 21.88 | 23.00 | 0.165 | **0.21** | 0.256 | **0.33** | 0.03 |
| 19100 | 1900 | 50RB-Low | Left | Tilt | / | 21.88 | 23.00 | 0.116 | **0.15** | 0.181 | **0.23** | -0.19 |
| 19100 | 1900 | 50RB-Low | Right | Cheek | / | 21.88 | 23.00 | 0.129 | **0.17** | 0.199 | **0.26** | 0.07 |
| 19100 | 1900 | 50RB-Low | Right | Tilt | / | 21.88 | 23.00 | 0.084 | **0.11** | 0.134 | **0.17** | -0.14 |

Note1: The LTE mode is QPSK_20MHz.

**Table 14.1-15: SAR Values (LTE Band2 ANT1– Body worn)**

| Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 19100 | 1900 | 1RB-Mid Front | / | 22.67 | 24.00 | 0.135 | **0.18** | 0.215 | **0.29** | 0.02 |
| 19100 | 1900 | 1RB-Mid Rear | Fig.15 | 22.67 | 24.00 | 0.201 | **0.27** | 0.339 | **0.46** | -0.16 |
| 19100 | 1900 | 50RB-Low Front | / | 21.88 | 23.00 | 0.108 | **0.14** | 0.170 | **0.22** | 0.13 |
| 19100 | 1900 | 50RB-Low Rear | / | 21.88 | 23.00 | 0.159 | **0.21** | 0.270 | **0.35** | 0.06 |

Note1: The distance between the EUT and the phantom bottom is 15mm

Note2: The LTE mode is QPSK_20MHz.

Note3: The results are also for ENDC.

**Table 14.1-16: SAR Values (LTE Band2 ANT1 – Hotspot)**

| Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 18700 | 1860 | 1RB-Low Front | / | 19.76 | 20.50 | 0.131 | **0.16** | 0.219 | **0.26** | -0.04 |
| 18700 | 1860 | 1RB-Low Rear | Fig.16 | 19.76 | 20.50 | 0.196 | **0.23** | 0.349 | **0.41** | -0.01 |
| 18700 | 1860 | 1RB-Low Left | / | 19.76 | 20.50 | 0.125 | **0.15** | 0.227 | **0.27** | -0.09 |
| 18700 | 1860 | 1RB-Low Bottom | / | 19.76 | 20.50 | 0.133 | **0.16** | 0.230 | **0.27** | 0.2 |
| 18700 | 1860 | 50RB-Low Front | / | 18.78 | 19.50 | 0.102 | **0.12** | 0.168 | **0.20** | -0.01 |
| 18700 | 1860 | 50RB-Low Rear | / | 18.78 | 19.50 | 0.151 | **0.18** | 0.266 | **0.31** | 0.09 |
| 18700 | 1860 | 50RB-Low Left | / | 18.78 | 19.50 | 0.094 | **0.11** | 0.165 | **0.19** | -0.08 |
| 18700 | 1860 | 50RB-Low Bottom | / | 18.78 | 19.50 | 0.105 | **0.12** | 0.181 | **0.21** | 0.18 |
| 18700 | 1860 | 1RB-Mid Front | Note3 | 17.58 | 18.00 | 0.099 | **0.11** | 0.166 | **0.18** | -0.04 |
| 18700 | 1860 | 1RB-Mid Rear | Note3 | 17.58 | 18.00 | 0.139 | **0.15** | 0.249 | **0.27** | 0.04 |
| 18700 | 1860 | 1RB-Mid Left | Note3 | 17.58 | 18.00 | 0.079 | **0.08** | 0.142 | **0.16** | 0.18 |
| 18700 | 1860 | 1RB-Mid Bottom | Note3 | 17.58 | 18.00 | 0.089 | **0.10** | 0.162 | **0.18** | 0.06 |
| 19100 | 1900 | 50RB-Low Front | Note3 | 16.70 | 17.00 | 0.068 | **0.07** | 0.118 | **0.13** | -0.01 |
| 19100 | 1900 | 50RB-Low Rear | Note3 | 16.70 | 17.00 | 0.107 | **0.11** | 0.196 | **0.21** | 0.02 |
| 19100 | 1900 | 50RB-Low Left | Note3 | 16.70 | 17.00 | 0.075 | **0.08** | 0.115 | **0.12** | 0.08 |
| 19100 | 1900 | 50RB-Low Bottom | Note3 | 16.70 | 17.00 | 0.076 | **0.08** | 0.138 | **0.15** | 0.05 |

Note1: The distance between the EUT and the phantom bottom is 10mm

Note2: The LTE mode is QPSK_20MHz.

Note3: The results are for ENDC only.

**Table 14.1-17: SAR Values (LTE Band2 ANT4- Head)**

| Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 18700 | 1860 | 1RB_Low | Left | Cheek | / | 16.13 | 17.00 | 0.145 | **0.18** | 0.276 | **0.34** | 0.14 |
| 18700 | 1860 | 1RB_Low | Left | Tilt | / | 16.13 | 17.00 | 0.175 | **0.21** | 0.367 | **0.45** | 0.12 |
| 18700 | 1860 | 1RB_Low | Right | Cheek | / | 16.13 | 17.00 | 0.205 | **0.25** | 0.408 | **0.50** | 0.02 |
| 18700 | 1860 | 1RB_Low | Right | Tilt | / | 16.13 | 17.00 | 0.232 | **0.28** | 0.504 | **0.62** | 0.09 |
| 18700 | 1860 | 50RB-Low | Left | Cheek | / | 16.20 | 17.00 | 0.154 | **0.19** | 0.302 | **0.36** | -0.18 |
| 18700 | 1860 | 50RB-Low | Left | Tilt | / | 16.20 | 17.00 | 0.182 | **0.22** | 0.375 | **0.45** | -0.05 |
| 18700 | 1860 | 50RB-Low | Right | Cheek | / | 16.20 | 17.00 | 0.215 | **0.26** | 0.436 | **0.52** | -0.09 |
| 18700 | 1860 | 50RB-Low | Right | Tilt | Fig.17 | 16.20 | 17.00 | 0.252 | **0.30** | 0.560 | **0.67** | -0.1 |

Note1: The LTE mode is QPSK_20MHz.

Note2: The results are for ENDC only.

**Table 14.1-18: SAR Values (LTE Band2 ANT4– Body worn)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 18700 | 1860 | 1RB-Low Front | / | 23.57 | 24.00 | 0.128 | **0.14** | 0.216 | **0.24** | -0.05 |
| 18700 | 1860 | 1RB-Low Rear | Fig.18 | 23.57 | 24.00 | 0.186 | **0.21** | 0.325 | **0.36** | 0.07 |
| 18700 | 1860 | 50RB-Mid Front | / | 22.54 | 23.00 | 0.113 | **0.13** | 0.189 | **0.21** | 0.19 |
| 18700 | 1860 | 50RB-Mid Rear | / | 22.54 | 23.00 | 0.158 | **0.18** | 0.275 | **0.31** | 0.07 |

Note1: The distance between the EUT and the phantom bottom is 15mm

Note2: The LTE mode is QPSK_20MHz.

Note3: The results are for ENDC only.

**Table 14.1-19: SAR Values (LTE Band2 ANT4 – Hotspot)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 18700 | 1860 | 1RB-Low Front | / | 22.56 | 23.00 | 0.233 | **0.26** | 0.426 | **0.47** | 0.16 |
| 18700 | 1860 | 1RB-Low Rear | / | 22.56 | 23.00 | 0.333 | **0.37** | 0.618 | **0.68** | -0.12 |
| 18700 | 1860 | 1RB-Low Left | / | 22.56 | 23.00 | 0.101 | **0.11** | 0.174 | **0.19** | 0.16 |
| 18700 | 1860 | 1RB-Low Top | / | 22.56 | 23.00 | 0.260 | **0.29** | 0.494 | **0.55** | -0.1 |
| 18700 | 1860 | 50RB-Mid Front | / | 22.53 | 23.00 | 0.253 | **0.28** | 0.459 | **0.51** | 0.14 |
| 18700 | 1860 | 50RB-Mid Rear | Fig.19 | 22.53 | 23.00 | 0.346 | **0.39** | 0.639 | **0.71** | 0.07 |
| 18700 | 1860 | 50RB-Mid Left | / | 22.53 | 23.00 | 0.108 | **0.12** | 0.188 | **0.21** | -0.04 |
| 18700 | 1860 | 50RB-Mid Top | / | 22.53 | 23.00 | 0.306 | **0.34** | 0.591 | **0.66** | -0.19 |

Note1: The distance between the EUT and the phantom bottom is 10mm

Note2: The LTE mode is QPSK_10MHz.

Note3: The results are for ENDC only.

**Table 14.1-20: SAR Values (LTE Band7 - Head)**

| Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 21350 | 2560 | 1RB_Mid | Left | Cheek | Fig.20 | 22.65 | 24.00 | 0.128 | **0.17** | 0.229 | **0.31** | 0.08 |
| 21350 | 2560 | 1RB_Mid | Left | Tilt | / | 22.65 | 24.00 | 0.084 | **0.11** | 0.158 | **0.22** | 0.06 |
| 21350 | 2560 | 1RB_Mid | Right | Cheek | / | 22.65 | 24.00 | 0.082 | **0.11** | 0.154 | **0.21** | -0.15 |
| 21350 | 2560 | 1RB_Mid | Right | Tilt | / | 22.65 | 24.00 | 0.049 | **0.07** | 0.090 | **0.12** | -0.04 |
| 21350 | 2560 | 50RB-Low | Left | Cheek | / | 21.91 | 23.00 | 0.074 | **0.10** | 0.130 | **0.17** | 0.05 |
| 21350 | 2560 | 50RB-Low | Left | Tilt | / | 21.91 | 23.00 | 0.065 | **0.08** | 0.120 | **0.15** | 0.18 |
| 21350 | 2560 | 50RB-Low | Right | Cheek | / | 21.91 | 23.00 | 0.080 | **0.10** | 0.150 | **0.19** | 0.06 |
| 21350 | 2560 | 50RB-Low | Right | Tilt | / | 21.91 | 23.00 | 0.040 | **0.05** | 0.070 | **0.09** | 0.17 |

Note1: The LTE mode is QPSK_20MHz.

**Table 14.1-21: SAR Values (LTE Band7 – Body worn)**

| Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 21350 | 2560 | 1RB-Mid Front | Fig.21 | 22.65 | 24.00 | 0.139 | **0.19** | 0.256 | **0.35** | -0.10 |
| 21350 | 2560 | 1RB-Mid Rear | / | 22.65 | 24.00 | 0.187 | **0.26** | 0.342 | **0.47** | -0.11 |
| 21350 | 2560 | 50RB-Low Front | / | 21.91 | 23.00 | 0.112 | **0.14** | 0.204 | **0.26** | 0.03 |
| 21350 | 2560 | 50RB-Low Rear | / | 21.91 | 23.00 | 0.148 | **0.19** | 0.272 | **0.35** | -0.19 |

Note1: The distance between the EUT and the phantom bottom is 15mm

Note2: The LTE mode is QPSK_20MHz.

**Table 14.1-22: SAR Values (LTE Band7 – Hotspot)**

| Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 21100 | 2535 | 1RB-Mid Front | / | 16.21 | 17.00 | 0.068 | **0.08** | 0.137 | **0.16** | -0.13 |
| 21100 | 2535 | 1RB-Mid Rear | / | 16.21 | 17.00 | 0.077 | **0.09** | 0.155 | **0.19** | 0.05 |
| 21100 | 2535 | 1RB-Mid Left | / | 16.21 | 17.00 | 0.033 | **0.04** | 0.062 | **0.07** | 0.06 |
| 21100 | 2535 | 1RB-Mid Right | / | 16.21 | 17.00 | 0.030 | **0.04** | 0.058 | **0.07** | 0.03 |
| 21100 | 2535 | 1RB-Mid Bottom | Fig.22 | 16.21 | 17.00 | 0.130 | **0.16** | 0.272 | **0.33** | -0.10 |
| 21100 | 2535 | 50RB-Low Front | / | 15.20 | 16.00 | 0.045 | **0.05** | 0.087 | **0.10** | 0.03 |
| 21100 | 2535 | 50RB-Low Rear | / | 15.20 | 16.00 | 0.064 | **0.08** | 0.132 | **0.16** | -0.12 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 21100 | 2535 | 50RB-Low Left | / | 15.20 | 16.00 | 0.028 | **0.03** | 0.053 | **0.06** | -0.03 |
| 21100 | 2535 | 50RB-Low Right | | 15.20 | 16.00 | 0.022 | **0.03** | 0.041 | **0.05** | -0.03 |
| 21100 | 2535 | 50RB-Low Top | / | 15.20 | 16.00 | 0.102 | **0.12** | 0.215 | **0.26** | 0.15 |

Note1: The distance between the EUT and the phantom bottom is 10mm

Note2: The LTE mode is QPSK_20MHz.

**Table 14.1-23: SAR Values (LTE Band12 - Head)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g)(W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 23060 | 704 | 1RB-Low | Left | Cheek | / | 22.76 | 24.00 | 0.093 | **0.12** | 0.115 | **0.15** | 0.03 |
| 23060 | 704 | 1RB-Low | Left | Tilt | / | 22.76 | 24.00 | 0.055 | **0.07** | 0.068 | **0.09** | -0.07 |
| 23060 | 704 | 1RB-Low | Right | Cheek | Fig.23 | 22.76 | 24.00 | 0.101 | **0.13** | 0.127 | **0.17** | 0.02 |
| 23060 | 704 | 1RB-Low | Right | Tilt | / | 22.76 | 24.00 | 0.095 | **0.13** | 0.118 | **0.16** | -0.01 |
| 23060 | 704 | 25RB-Mid | Left | Cheek | / | 21.65 | 23.00 | 0.078 | **0.11** | 0.085 | **0.12** | 0.08 |
| 23060 | 704 | 25RB-Mid | Left | Tilt | / | 21.65 | 24.00 | 0.038 | **0.07** | 0.047 | **0.08** | -0.19 |
| 23060 | 704 | 25RB-Mid | Right | Cheek | / | 21.65 | 24.00 | 0.063 | **0.11** | 0.089 | **0.15** | 0.18 |
| 23060 | 704 | 25RB-Mid | Right | Tilt | / | 21.65 | 24.00 | 0.057 | **0.10** | 0.085 | **0.15** | -0.01 |

Note1: The LTE mode is QPSK_10MHz.

**Table 14.1-24: SAR Values (LTE Band12 – Body)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 23060 | 704 | 1RB-Low Front | / | 22.76 | 24.00 | 0.117 | **0.16** | 0.164 | **0.22** | 0.03 |
| 23060 | 704 | 1RB-Low Rear | Fig.24 | 22.76 | 24.00 | 0.144 | **0.19** | 0.252 | **0.34** | -0.19 |
| 23060 | 704 | 1RB-Low Left | / | 22.76 | 24.00 | 0.031 | **0.04** | 0.047 | **0.06** | 0.17 |
| 23060 | 704 | 1RB-Low Right | / | 22.76 | 24.00 | 0.041 | **0.05** | 0.063 | **0.08** | -0.04 |
| 23060 | 704 | 1RB-Low Bottom | / | 22.76 | 24.00 | 0.088 | **0.12** | 0.206 | **0.27** | 0.06 |
| 23060 | 704 | 25RB-Mid Front | / | 21.65 | 23.00 | 0.093 | **0.13** | 0.130 | **0.18** | 0.03 |
| 23060 | 704 | 25RB-Mid Rear | / | 21.65 | 23.00 | 0.124 | **0.17** | 0.221 | **0.30** | -0.10 |
| 23060 | 704 | 25RB-Mid Left | / | 21.65 | 23.00 | <0.01 | <0.01 | <0.01 | <0.01 | / |
| 23060 | 704 | 25RB-Mid Right | | 21.65 | 23.00 | 0.036 | **0.05** | 0.055 | **0.08** | -0.12 |
| 23060 | 704 | 25RB-Mid Bottom | / | 21.65 | 23.00 | 0.071 | **0.10** | 0.155 | **0.21** | -0.03 |

Note1: The distance between the EUT and the phantom bottom is 10mm

Note2: The LTE mode is QPSK_10MHz.

**Table 14.1-25: SAR Values (LTE Band13 - Head)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g)(W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 23230 | 782 | 1RB-Mid | Left | Cheek | / | 22.72 | 24.00 | 0.126 | **0.17** | 0.160 | **0.21** | 0.05 |
| 23230 | 782 | 1RB-Mid | Left | Cheek | / | 22.72 | 24.00 | 0.083 | **0.11** | 0.104 | **0.14** | 0.10 |
| 23230 | 782 | 1RB-Mid | Right | Cheek | Fig.25 | 22.72 | 24.00 | 0.155 | **0.21** | 0.200 | **0.27** | -0.19 |
| 23230 | 782 | 1RB-Mid | Right | Tilt | / | 22.72 | 24.00 | 0.086 | **0.12** | 0.107 | **0.14** | 0.10 |
| 23230 | 782 | 25RB-Mid | Left | Cheek | / | 21.57 | 23.00 | 0.103 | **0.14** | 0.132 | **0.18** | 0.04 |
| 23230 | 782 | 25RB-Mid | Left | Tilt | / | 21.57 | 23.00 | 0.048 | **0.07** | 0.063 | **0.09** | 0.19 |
| 23230 | 782 | 25RB-Mid | Right | Cheek | / | 21.57 | 23.00 | 0.142 | **0.20** | 0.182 | **0.25** | 0.03 |
| 23230 | 782 | 25RB-Mid | Right | Tilt | / | 21.57 | 23.00 | 0.073 | **0.10** | 0.093 | **0.13** | -0.04 |

Note1: The LTE mode is QPSK_10MHz.

**Table 14.1-26: SAR Values (LTE Band13 – Body)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 23230 | 782 | 1RB-Mid Front | / | 22.72 | 24.00 | 0.119 | **0.16** | 0.196 | **0.26** | 0.18 |
| 23230 | 782 | 1RB-Mid Rear | Fig.26 | 22.72 | 24.00 | 0.198 | **0.27** | 0.353 | **0.47** | 0.12 |
| 23230 | 782 | 1RB-Mid Left | / | 22.72 | 24.00 | <0.01 | <0.01 | <0.01 | <0.01 | / |
| 23230 | 782 | 1RB-Mid Right | / | 22.72 | 24.00 | 0.057 | **0.08** | 0.087 | **0.12** | 0.03 |
| 23230 | 782 | 1RB-Mid Bottom | / | 22.72 | 24.00 | 0.139 | **0.19** | 0.263 | **0.35** | 0.09 |
| 23230 | 782 | 25RB-Mid Front | / | 21.57 | 23.00 | 0.093 | **0.13** | 0.153 | **0.21** | 0.04 |
| 23230 | 782 | 25RB-Mid Rear | / | 21.57 | 23.00 | 0.151 | **0.21** | 0.268 | **0.37** | -0.11 |
| 23230 | 782 | 25RB-Mid Left | / | 21.57 | 23.00 | <0.01 | <0.01 | <0.01 | <0.01 | / |
| 23230 | 782 | 25RB-Mid Right | | 21.57 | 23.00 | 0.041 | **0.06** | 0.062 | **0.09** | -0.06 |
| 23230 | 782 | 25RB-Mid Top | / | 21.57 | 23.00 | 0.097 | **0.13** | 0.212 | **0.29** | 0.07 |

Note1: The distance between the EUT and the phantom bottom is 10mm

Note2: The LTE mode is QPSK_10MHz.

**Table 14.1-27: SAR Values (LTE Band25 - Head)**

| Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g)(W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 26590 | 1905 | 1RB-Mid | Left | Cheek | Fig.27 | 22.74 | 24.00 | 0.226 | **0.30** | 0.350 | **0.47** | 0.12 |
| 26590 | 1905 | 1RB-Mid | Left | Tilt | / | 22.74 | 24.00 | 0.101 | **0.13** | 0.156 | **0.21** | -0.03 |
| 26590 | 1905 | 1RB-Mid | Right | Cheek | / | 22.74 | 24.00 | 0.120 | **0.16** | 0.180 | **0.24** | -0.13 |
| 26590 | 1905 | 1RB-Mid | Right | Tilt | / | 22.74 | 24.00 | 0.098 | **0.13** | 0.162 | **0.22** | -0.09 |
| 26590 | 1905 | 50RB-Mid | Left | Cheek | / | 21.94 | 23.00 | 0.145 | **0.19** | 0.221 | **0.28** | 0.09 |
| 26590 | 1905 | 50RB-Mid | Left | Tilt | / | 21.94 | 23.00 | 0.105 | **0.13** | 0.167 | **0.21** | 0.03 |
| 26590 | 1905 | 50RB-Mid | Right | Cheek | / | 21.94 | 23.00 | 0.105 | **0.13** | 0.155 | **0.20** | -0.09 |
| 26590 | 1905 | 50RB-Mid | Right | Tilt | / | 21.94 | 23.00 | 0.083 | **0.11** | 0.139 | **0.18** | 0.11 |

Note1: The LTE mode is QPSK_20MHz.

**Table 14.1-28: SAR Values (LTE Band25– Body worn)**

| Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 26590 | 1905 | 1RB-Mid Front | | 22.74 | 24.00 | 0.134 | **0.18** | 0.221 | **0.30** | -0.01 |
| 26590 | 1905 | 1RB-Mid Rear | Fig.28 | 22.74 | 24.00 | 0.204 | **0.27** | 0.344 | **0.46** | -0.10 |
| 26590 | 1905 | 50RB-Mid Front | / | 21.94 | 23.00 | 0.107 | **0.14** | 0.172 | **0.22** | -0.17 |
| 26590 | 1905 | 50RB-Mid Rear | / | 21.94 | 23.00 | 0.162 | **0.21** | 0.273 | **0.35** | 0.11 |

Note1: The distance between the EUT and the phantom bottom is 15mm

Note2: The LTE mode is QPSK_20MHz.

**Table 14.1-29: SAR Values (LTE Band25 – Hotspot)**

| Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 26140 | 1860 | 1RB-Mid Front | / | 20.70 | 21.50 | 0.171 | **0.21** | 0.290 | **0.35** | 0.08 |
| 26140 | 1860 | 1RB-Mid Rear | Fig.29 | 20.70 | 21.50 | 0.245 | **0.29** | 0.436 | **0.52** | 0.14 |
| 26140 | 1860 | 1RB-Mid Left | / | 20.70 | 21.50 | 0.157 | **0.19** | 0.288 | **0.35** | 0.12 |
| 26140 | 1860 | 1RB-Mid Bottom | / | 20.70 | 21.50 | 0.167 | **0.20** | 0.294 | **0.35** | 0.05 |
| 26140 | 1860 | 50RB-Low Front | / | 19.77 | 20.50 | 0.134 | **0.16** | 0.227 | **0.27** | -0.01 |
| 26140 | 1860 | 50RB-Low Rear | / | 21.84 | 20.50 | 0.198 | **0.15** | 0.339 | **0.25** | 0.06 |
| 26140 | 1860 | 50RB-Low Left | / | 21.84 | 20.50 | 0.099 | **0.07** | 0.192 | **0.14** | -0.11 |
| 26140 | 1860 | 50RB-Low Bottom | / | 21.84 | 20.50 | 0.123 | **0.09** | 0.216 | **0.16** | -0.17 |

Note1: The distance between the EUT and the phantom bottom is 10mm

Note2: The LTE mode is QPSK_20MHz.

**Table 14.1-30: SAR Values (LTE Band26 - Head)**

| Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g)(W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 26965 | 841.5 | 1RB-High | Left | Cheek | / | 22.65 | 24.00 | 0.130 | **0.18** | 0.167 | **0.23** | -0.07 |
| 26965 | 841.5 | 1RB-High | Left | Tilt | / | 22.65 | 24.00 | 0.074 | **0.10** | 0.092 | **0.13** | 0.07 |
| 26965 | 841.5 | 1RB-High | Right | Cheek | Fig.30 | 22.65 | 24.00 | 0.172 | **0.23** | 0.222 | **0.30** | 0.01 |
| 26965 | 841.5 | 1RB-High | Right | Tilt | / | 22.65 | 24.00 | 0.102 | **0.14** | 0.126 | **0.17** | 0.13 |
| 26965 | 841.5 | 36RB-High | Left | Cheek | / | 21.57 | 23.00 | 0.108 | **0.15** | 0.140 | **0.19** | -0.18 |
| 26965 | 841.5 | 36RB-High | Left | Tilt | / | 21.57 | 23.00 | 0.056 | **0.08** | 0.072 | **0.10** | 0.01 |
| 26965 | 841.5 | 36RB-High | Right | Cheek | / | 21.57 | 23.00 | 0.125 | **0.17** | 0.161 | **0.22** | -0.05 |
| 26965 | 841.5 | 36RB-High | Right | Tilt | / | 21.57 | 23.00 | 0.066 | **0.09** | 0.084 | **0.12** | 0.09 |

Note1: The LTE mode is QPSK_15MHz.

**Table 14.1-31: SAR Values (LTE Band26 – Body)**

| Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 26965 | 841.5 | 1RB-High Front | / | 22.65 | 24.00 | 0.177 | **0.24** | 0.298 | **0.41** | 0.10 |
| 26965 | 841.5 | 1RB-High Rear | Fig.31 | 22.65 | 24.00 | 0.279 | **0.38** | 0.500 | **0.68** | 0.17 |
| 26965 | 841.5 | 1RB-High Left | / | 22.65 | 24.00 | <0.01 | <0.01 | <0.01 | <0.01 | / |
| 26965 | 841.5 | 1RB-High Right | / | 22.65 | 24.00 | 0.056 | **0.08** | 0.088 | **0.12** | -0.11 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 26965 | 841.5 | 1RB-High Bottom | / | 22.65 | 24.00 | 0.162 | **0.22** | 0.307 | **0.42** | -0.16 |
| 26965 | 841.5 | 36RB-High Front | / | 21.57 | 23.00 | 0.130 | **0.18** | 0.221 | **0.31** | -0.19 |
| 26965 | 841.5 | 36RB-High Rear | / | 21.57 | 23.00 | 0.208 | **0.29** | 0.376 | **0.52** | 0.09 |
| 26965 | 841.5 | 36RB-High Left | / | 21.57 | 23.00 | <0.01 | <0.01 | <0.01 | <0.01 | / |
| 26965 | 841.5 | 36RB-High Right | / | 21.57 | 23.00 | 0.039 | **0.05** | 0.063 | **0.09** | -0.10 |
| 26965 | 841.5 | 36RB-High Bottom | / | 21.57 | 23.00 | 0.132 | **0.18** | 0.302 | **0.42** | 0.09 |

Note1: The distance between the EUT and the phantom bottom is 10mm

Note2: The LTE mode is QPSK_15MHz.

**Table 14.1-32: SAR Values (LTE Band38 - Head)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g)(W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 38150 | 2610 | 1RB-Mid | Left | Cheek | Fig.32 | 22.98 | 24.00 | 0.078 | **0.10** | 0.141 | **0.18** | 0.07 |
| 38150 | 2610 | 1RB-Mid | Left | Tilt | / | 22.98 | 24.00 | 0.050 | **0.06** | 0.094 | **0.12** | -0.13 |
| 38150 | 2610 | 1RB-Mid | Right | Cheek | / | 22.98 | 24.00 | 0.055 | **0.07** | 0.105 | **0.13** | -0.10 |
| 38150 | 2610 | 1RB-Mid | Right | Tilt | / | 22.98 | 24.00 | 0.031 | **0.04** | 0.057 | **0.07** | -0.09 |
| 38150 | 2610 | 50RB-Low | Left | Cheek | / | 21.95 | 23.00 | 0.058 | **0.07** | 0.106 | **0.13** | -0.16 |
| 38150 | 2610 | 50RB-Low | Left | Tilt | / | 21.95 | 23.00 | 0.041 | **0.05** | 0.074 | **0.09** | -0.02 |
| 38150 | 2610 | 50RB-Low | Right | Cheek | / | 21.95 | 23.00 | 0.043 | **0.05** | 0.084 | **0.11** | 0.11 |
| 38150 | 2610 | 50RB-Low | Right | Tilt | / | 21.95 | 23.00 | 0.025 | **0.03** | 0.046 | **0.06** | 0.11 |

Note1: The LTE mode is QPSK_20MHz.

**Table 14.1-33: SAR Values (LTE Band38– Body worn)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 38150 | 2610 | 1RB-Mid Front | / | 22.98 | 24.00 | 0.099 | **0.13** | 0.182 | **0.23** | -0.09 |
| 38150 | 2610 | 1RB-Mid Rear | Fig.33 | 22.98 | 24.00 | 0.142 | **0.18** | 0.266 | **0.34** | -0.08 |
| 38150 | 2610 | 50RB-Low Front | / | 21.95 | 23.00 | 0.082 | **0.10** | 0.154 | **0.20** | -0.17 |
| 38150 | 2610 | 50RB-Low Rear | / | 21.95 | 23.00 | 0.113 | **0.14** | 0.211 | **0.27** | 0.12 |

Note1: The distance between the EUT and the phantom bottom is 15mm

Note2: The LTE mode is QPSK_20MHz.

**Table 14.1-34: SAR Values (LTE Band38 – Hotspot)**

| Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 37850 | 2580 | 1RB-Low Front | / | 20.45 | 21.00 | 0.118 | **0.13** | 0.215 | **0.24** | -0.13 |
| 37850 | 2580 | 1RB-Low Rear | / | 20.45 | 21.00 | 0.143 | **0.16** | 0.263 | **0.30** | -0.06 |
| 37850 | 2580 | 1RB-Low Left | / | 20.45 | 21.00 | 0.067 | **0.08** | 0.118 | **0.13** | 0.19 |
| 37850 | 2580 | 1RB-Low Right | / | 20.45 | 21.00 | 0.043 | **0.05** | 0.077 | **0.09** | -0.06 |
| 37850 | 2580 | 1RB-Low Bottom | Fig.34 | 20.45 | 21.00 | 0.183 | **0.21** | 0.374 | **0.42** | 0.04 |
| 37850 | 2580 | 50RB-Low Front | / | 19.49 | 20.00 | 0.096 | **0.11** | 0.181 | **0.20** | -0.06 |
| 37850 | 2580 | 50RB-Low Rear | / | 19.49 | 20.00 | 0.107 | **0.12** | 0.198 | **0.22** | -0.15 |
| 37850 | 2580 | 50RB-Low Rear | | 19.49 | 20.00 | 0.049 | **0.06** | 0.085 | **0.10** | 0.12 |
| 37850 | 2580 | 50RB-Low Right | / | 19.49 | 20.00 | 0.037 | **0.04** | 0.065 | **0.07** | 0.09 |
| 37850 | 2580 | 50RB-Low Bottom | / | 19.49 | 20.00 | 0.159 | **0.18** | 0.312 | **0.35** | 0.07 |

Note1: The distance between the EUT and the phantom bottom is 10mm

Note2: The LTE mode is QPSK_20MHz.

**Table 14.1-35: SAR Values (LTE Band41 PC3 - Head)**

| Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g)(W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 41490 | 2680 | 1RB-Mid | Left | Cheek | Fig.35 | 22.82 | 24.00 | 0.081 | **0.11** | 0.149 | **0.20** | -0.09 |
| 41490 | 2680 | 1RB-Mid | Left | Tilt | / | 22.82 | 24.00 | 0.078 | **0.10** | 0.145 | **0.19** | -0.02 |
| 41490 | 2680 | 1RB-Mid | Right | Cheek | / | 22.82 | 24.00 | 0.050 | **0.07** | 0.092 | **0.12** | 0.02 |
| 41490 | 2680 | 1RB-Mid | Right | Tilt | / | 22.82 | 24.00 | 0.046 | **0.06** | 0.080 | **0.10** | -0.01 |
| 40620 | 2593 | 50RB-Low | Left | Cheek | / | 21.83 | 23.00 | 0.080 | **0.10** | 0.147 | **0.19** | 0.09 |
| 40620 | 2593 | 50RB-Low | Left | Tilt | / | 21.83 | 23.00 | 0.075 | **0.10** | 0.137 | **0.18** | -0.08 |
| 40620 | 2593 | 50RB-Low | Right | Cheek | / | 21.83 | 23.00 | 0.048 | **0.06** | 0.088 | **0.12** | 0.13 |
| 40620 | 2593 | 50RB-Low | Right | Tilt | / | 21.83 | 23.00 | 0.047 | **0.06** | 0.085 | **0.11** | 0.18 |
| 41515 | 2682.5 | UL CA | Left | Cheek | / | 22.92 | 24.00 | 0.067 | **0.09** | 0.138 | **0.18** | -0.11 |

Note1: The LTE mode is QPSK_20MHz.

**Table 14.1-36: SAR Values (LTE Band41 PC3– Body worn)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 41490 | 2680 | 1RB-Mid Front | / | 22.82 | 24.00 | 0.110 | **0.14** | 0.204 | **0.27** | -0.15 |
| 41490 | 2680 | 1RB-Mid Rear | Fig.36 | 22.82 | 24.00 | 0.152 | **0.20** | 0.282 | **0.37** | -0.04 |
| 40620 | 2593 | 50RB-Low Front | / | 21.83 | 23.00 | 0.081 | **0.11** | 0.148 | **0.19** | -0.03 |
| 40620 | 2593 | 50RB-Low Rear | / | 21.83 | 23.00 | 0.099 | **0.13** | 0.184 | **0.24** | 0.06 |
| 41515 | 2682.5 | UL CA Rear | / | 22.92 | 24.00 | 0.143 | **0.18** | 0.269 | **0.34** | 0.06 |

Note1: The distance between the EUT and the phantom bottom is 15mm

Note2: The LTE mode is QPSK_20MHz.

**Table 14.1-37: SAR Values (LTE Band41 PC3 – Hotspot)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 39750 | 2506 | 1RB-Low Front | / | 18.91 | 19.00 | 0.061 | **0.06** | 0.113 | **0.12** | 0.17 |
| 39750 | 2506 | 1RB-Low Rear | / | 18.91 | 19.00 | 0.074 | **0.08** | 0.140 | **0.14** | -0.11 |
| 39750 | 2506 | 1RB-Low Left | / | 18.91 | 19.00 | 0.027 | **0.03** | 0.049 | **0.05** | -0.10 |
| 39750 | 2506 | 1RB-Low Right | / | 18.91 | 19.00 | 0.026 | **0.03** | 0.047 | **0.05** | 0.11 |
| 39750 | 2506 | 1RB-Low Bottom | Fig.37 | 18.91 | 19.00 | 0.132 | **0.13** | 0.275 | **0.28** | 0.09 |
| 39750 | 2506 | 50RB-Mid Front | / | 17.91 | 18.00 | 0.045 | **0.05** | 0.091 | **0.09** | -0.19 |
| 39750 | 2506 | 50RB-Mid Rear | / | 17.91 | 18.00 | 0.061 | **0.06** | 0.115 | **0.12** | 0.03 |
| 39750 | 2506 | 50RB-Mid Rear | / | 17.91 | 18.00 | 0.023 | **0.02** | 0.040 | **0.04** | -0.13 |
| 39750 | 2506 | 50RB-Mid Right | / | 17.91 | 18.00 | 0.013 | **0.01** | 0.027 | **0.03** | -0.03 |
| 39750 | 2506 | 50RB-Mid Bottom | / | 17.91 | 18.00 | 0.111 | **0.11** | 0.231 | **0.24** | 0.01 |
| 41515 | 2682.5 | UL CA Bottom | / | 18.53 | 19.00 | 0.112 | **0.12** | 0.238 | **0.27** | 0.08 |

Note1: The distance between the EUT and the phantom bottom is 10mm

Note2: The LTE mode is QPSK_20MHz.

**Table 14.1-38: SAR Values (LTE Band41 PC2 - Head)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g)(W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 40620 | 2593 | 1RB-Mid | Left | Cheek | Fig.38 | 25.72 | 27.00 | 0.091 | **0.12** | 0.165 | **0.22** | -0.18 |
| 40620 | 2593 | 1RB-Mid | Left | Tilt | / | 25.72 | 27.00 | 0.073 | **0.10** | 0.137 | **0.18** | 0.01 |
| 40620 | 2593 | 1RB-Mid | Right | Cheek | / | 25.72 | 27.00 | 0.070 | **0.09** | 0.133 | **0.18** | -0.05 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40620 | 2593 | 1RB-Mid | Right | Tilt | / | 25.72 | 27.00 | 0.042 | **0.06** | 0.076 | **0.10** | 0.09 |
| 40620 | 2593 | 50RB-Low | Left | Cheek | / | 24.70 | 26.00 | 0.086 | **0.12** | 0.155 | **0.21** | -0.11 |
| 40620 | 2593 | 50RB-Low | Left | Tilt | / | 24.70 | 26.00 | 0.073 | **0.10** | 0.137 | **0.18** | 0.1 |
| 40620 | 2593 | 50RB-Low | Right | Cheek | / | 24.70 | 26.00 | 0.059 | **0.08** | 0.112 | **0.15** | 0.17 |
| 40620 | 2593 | 50RB-Low | Right | Tilt | / | 24.70 | 26.00 | 0.035 | **0.05** | 0.064 | **0.09** | -0.09 |
| 41490 | 2680 | UL CA | Left | Cheek | / | 26.69 | 27.00 | 0.074 | **0.08** | 0.152 | **0.16** | 0.09 |

Note1: The LTE mode is QPSK_20MHz.

**Table 14.1-39: SAR Values (LTE Band41 PC2– Body worn)**

| Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 40620 | 2593 | 1RB-Mid Front | / | 25.72 | 27.00 | 0.105 | **0.14** | 0.192 | **0.26** | -0.16 |
| 40620 | 2593 | 1RB-Mid Rear | Fig.39 | 25.72 | 27.00 | 0.134 | **0.18** | 0.248 | **0.33** | -0.19 |
| 40620 | 2593 | 50RB-Low Front | / | 24.70 | 26.00 | 0.092 | **0.12** | 0.166 | **0.22** | 0.09 |
| 40620 | 2593 | 50RB-Low Rear | / | 24.70 | 26.00 | 0.118 | **0.16** | 0.220 | **0.30** | 0.06 |
| 41490 | 2680 | UL CA Rear | / | 26.69 | 27.00 | 0.120 | **0.13** | 0.226 | **0.24** | -0.06 |

Note1: The distance between the EUT and the phantom bottom is 15mm

Note2: The LTE mode is QPSK_20MHz.

**Table 14.1-40: SAR Values (LTE Band41 PC2 – Hotspot)**

| Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 39750 | 2506 | 1RB-Mid Front | / | 21.90 | 22.50 | 0.082 | **0.09** | 0.151 | **0.17** | -0.19 |
| 39750 | 2506 | 1RB-Mid Rear | / | 21.90 | 22.50 | 0.111 | **0.13** | 0.214 | **0.25** | 0.18 |
| 39750 | 2506 | 1RB-Mid Left | / | 21.90 | 22.50 | 0.038 | **0.04** | 0.064 | **0.07** | -0.01 |
| 39750 | 2506 | 1RB-Mid Right | / | 21.90 | 22.50 | 0.034 | **0.04** | 0.062 | **0.07** | 0.09 |
| 39750 | 2506 | 1RB-Mid Bottom | Fig.40 | 21.90 | 22.50 | 0.165 | **0.19** | 0.343 | **0.39** | 0.03 |
| 39750 | 2506 | 50RB-High Front | / | 20.89 | 21.50 | 0.061 | **0.07** | 0.117 | **0.13** | -0.19 |
| 39750 | 2506 | 50RB-High Rear | / | 20.89 | 21.50 | 0.078 | **0.09** | 0.154 | **0.18** | 0.17 |
| 39750 | 2506 | 50RB-High Left | / | 20.89 | 21.50 | 0.031 | **0.04** | 0.055 | **0.06** | -0.04 |
| 39750 | 2506 | 50RB-High Right | / | 20.89 | 21.50 | 0.025 | **0.03** | 0.047 | **0.05** | -0.05 |
| 39750 | 2506 | 50RB-High Bottom | / | 20.89 | 21.50 | 0.128 | **0.15** | 0.264 | **0.30** | -0.18 |
| 39750 | 2506 | UL CA Bottom | / | 22.34 | 22.50 | 0.144 | **0.15** | 0.305 | **0.32** | -0.16 |

Note1: The distance between the EUT and the phantom bottom is 10mm

Note2: The LTE mode is QPSK_20MHz.

**Table 14.1-41: SAR Values (LTE Band66 ANT1- Head)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g)(W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 132072 | 1720 | 1RB-Mid | Left | Cheek | Fig.41 | 22.82 | 24.00 | 0.136 | **0.18** | 0.204 | **0.27** | 0.04 |
| 132072 | 1720 | 1RB-Mid | Left | Tilt | / | 22.82 | 24.00 | 0.086 | **0.11** | 0.127 | **0.17** | 0.18 |
| 132072 | 1720 | 1RB-Mid | Right | Cheek | | 22.82 | 24.00 | 0.099 | **0.13** | 0.150 | **0.20** | -0.06 |
| 132072 | 1720 | 1RB-Mid | Right | Tilt | / | 22.82 | 24.00 | 0.082 | **0.11** | 0.130 | **0.17** | -0.13 |
| 132572 | 1770 | 50RB-Mid | Left | Cheek | / | 21.89 | 23.00 | 0.084 | **0.11** | 0.124 | **0.16** | 0.04 |
| 132572 | 1770 | 50RB-Mid | Left | Tilt | / | 21.89 | 23.00 | 0.076 | **0.10** | 0.113 | **0.15** | 0.08 |
| 132572 | 1770 | 50RB-Mid | Right | Cheek | / | 21.89 | 23.00 | 0.075 | **0.10** | 0.110 | **0.14** | -0.04 |
| 132572 | 1770 | 50RB-Mid | Right | Tilt | / | 21.89 | 23.00 | 0.057 | **0.07** | 0.088 | **0.11** | 0.12 |

Note1: The LTE mode is QPSK_20MHz.

**Table 14.1-42: SAR Values (LTE Band66 ANT1 – Body worn)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 132072 | 1720 | 1RB-Mid Front | / | 22.82 | 24.00 | 0.232 | **0.30** | 0.340 | **0.45** | 0.03 |
| 132072 | 1720 | 1RB-Mid Rear | Fig.42 | 22.82 | 24.00 | 0.296 | **0.39** | 0.445 | **0.58** | 0.09 |
| 132572 | 1770 | 50RB-Mid Front | / | 21.89 | 23.00 | 0.187 | **0.24** | 0.274 | **0.35** | 0.01 |
| 132572 | 1770 | 50RB-Mid Rear | / | 21.89 | 23.00 | 0.237 | **0.31** | 0.356 | **0.46** | -0.11 |

Note1: The distance between the EUT and the phantom bottom is 15mm

Note2: The LTE mode is QPSK_20MHz.

**Table 14.1-43: SAR Values (LTE Band66 ANT1– Hotspot)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 132572 | 1770 | 1RB-Mid Front | / | 19.45 | 20.00 | 0.176 | **0.20** | 0.290 | **0.33** | -0.06 |
| 132572 | 1770 | 1RB-Mid Rear | Fig.43 | 19.45 | 20.00 | 0.252 | **0.29** | 0.444 | **0.50** | -0.01 |
| 132572 | 1770 | 1RB-Mid Left | / | 19.45 | 20.00 | 0.158 | **0.18** | 0.274 | **0.31** | -0.10 |
| 132572 | 1770 | 1RB-Mid Bottom | / | 19.45 | 20.00 | 0.186 | **0.21** | 0.322 | **0.37** | 0.11 |
| 132572 | 1770 | 50RB-Mid Front | / | 18.48 | 19.00 | 0.135 | **0.15** | 0.224 | **0.25** | 0.09 |
| 132572 | 1770 | 50RB-Mid Rear | / | 18.48 | 19.00 | 0.194 | **0.22** | 0.340 | **0.38** | 0.08 |
| 132572 | 1770 | 50RB-Mid Left | / | 18.48 | 19.00 | 0.137 | **0.15** | 0.238 | **0.27** | 0.14 |
| 132572 | 1770 | 50RB-Mid Bottom | / | 18.48 | 19.00 | 0.151 | **0.17** | 0.265 | **0.30** | -0.19 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 132572 | 1770 | 1RB-Mid Front | Note3 | 17.51 | 18.00 | 0.098 | **0.11** | 0.163 | **0.18** | 0.05 |
| 132572 | 1770 | 1RB-Mid Rear | Note3 | 17.51 | 18.00 | 0.134 | **0.15** | 0.238 | **0.27** | -0.09 |
| 132572 | 1770 | 1RB-Mid Left | Note3 | 17.51 | 18.00 | 0.079 | **0.09** | 0.146 | **0.16** | -0.03 |
| 132572 | 1770 | 1RB-Mid Bottom | Note3 | 17.51 | 18.00 | 0.098 | **0.11** | 0.178 | **0.20** | 0.11 |
| 132572 | 1770 | 50RB-Mid Front | Note3 | 16.56 | 17.00 | 0.070 | **0.08** | 0.120 | **0.13** | -0.09 |
| 132572 | 1770 | 50RB-Mid Rear | Note3 | 16.56 | 17.00 | 0.098 | **0.11** | 0.175 | **0.19** | 0.02 |
| 132572 | 1770 | 50RB-Mid Left | Note3 | 16.56 | 17.00 | 0.066 | **0.07** | 0.117 | **0.13** | -0.04 |
| 132572 | 1770 | 50RB-Mid Bottom | Note3 | 16.56 | 17.00 | 0.078 | **0.09** | 0.142 | **0.16** | 0..09 |

Note1: The distance between the EUT and the phantom bottom is 10mm

Note2: The LTE mode is QPSK_20MHz.

Note3: The results are for ENDC only.

**Table 14.1-44: SAR Values (LTE Band66 ANT4- Head)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g)(W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 132072 | 1720 | 1RB-Mid | Left | Cheek | Note2 | 18.23 | 19.50 | 0.084 | **0.11** | 0.161 | **0.22** | -0.04 |
| 132072 | 1720 | 1RB-Mid | Left | Tilt | Note2 | 18.23 | 19.50 | 0.106 | **0.14** | 0.212 | **0.28** | 0.19 |
| 132072 | 1720 | 1RB-Mid | Right | Cheek | Note2 | 18.23 | 19.50 | 0.149 | **0.20** | 0.354 | **0.47** | 0.03 |
| 132072 | 1720 | 1RB-Mid | Right | Tilt | Note2/ Fig.44 | 18.23 | 19.50 | 0.174 | **0.23** | 0.400 | **0.54** | -0.04 |
| 132072 | 1720 | 50RB-Mid | Left | Cheek | Note2 | 18.25 | 19.50 | 0.086 | **0.11** | 0.166 | **0.22** | 0.04 |
| 132072 | 1720 | 50RB-Mid | Left | Tilt | Note2 | 18.25 | 19.50 | 0.103 | **0.14** | 0.211 | **0.28** | 0.18 |
| 132072 | 1720 | 50RB-Mid | Right | Cheek | Note2 | 18.25 | 19.50 | 0.140 | **0.19** | 0.318 | **0.42** | 0.04 |
| 132072 | 1720 | 50RB-Mid | Right | Tilt | Note2 | 18.25 | 19.50 | 0.155 | **0.21** | 0.345 | **0.46** | -0.13 |
| 132072 | 1720 | 1RB-Mid | Left | Cheek | Note3 | 15.68 | 17.00 | 0.065 | **0.09** | 0.130 | **0.18** | -0.09 |
| 132072 | 1720 | 1RB-Mid | Left | Tilt | Note3 | 15.68 | 17.00 | 0.084 | **0.11** | 0.180 | **0.24** | 0.04 |
| 132072 | 1720 | 1RB-Mid | Right | Cheek | Note3 | 15.68 | 17.00 | 0.108 | **0.15** | 0.251 | **0.34** | 0.12 |
| 132072 | 1720 | 1RB-Mid | Right | Tilt | Note3 | 15.68 | 17.00 | 0.118 | **0.16** | 0.278 | **0.38** | -0.06 |
| 132072 | 1720 | 50RB-Mid | Left | Cheek | Note3 | 15.89 | 17.00 | 0.069 | **0.09** | 0.135 | **0.17** | 0.03 |
| 132072 | 1720 | 50RB-Mid | Left | Tilt | Note3 | 15.89 | 17.00 | 0.081 | **0.10** | 0.172 | **0.22** | 0.09 |
| 132072 | 1720 | 50RB-Mid | Right | Cheek | Note3 | 15.89 | 17.00 | 0.111 | **0.14** | 0.249 | **0.32** | 0.02 |
| 132072 | 1720 | 50RB-Mid | Right | Tilt | Note3 | 15.89 | 17.00 | 0.122 | **0.16** | 0.272 | **0.35** | 0.11 |

Note1: The LTE mode is QPSK_20MHz.

Note2: The results are for cellular antenna transmit alone.

Note3: The results are for cellular antenna transmit with WIFI.

**Table 14.1-45: SAR Values (LTE Band66 ANT4 – Body worn)**

| Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 132072 | 1720 | 1RB-Low Front | / | 23.57 | 24.00 | 0.041 | **0.05** | 0.072 | **0.08** | 0.02 |
| 132072 | 1720 | 1RB-Low Rear | Fig.45 | 23.57 | 24.00 | 0.069 | **0.08** | 0.126 | **0.14** | -0.19 |
| 132072 | 1720 | 50RB-Mid Front | / | 22.54 | 23.00 | 0.034 | **0.04** | 0.060 | **0.07** | 0.04 |
| 132072 | 1720 | 50RB-Mid Rear | / | 22.54 | 23.00 | 0.055 | **0.06** | 0.102 | **0.11** | 0.11 |

Note1: The distance between the EUT and the phantom bottom is 15mm

Note2: The LTE mode is QPSK_20MHz.

**Table 14.1-46 SAR Values (LTE Band66 ANT4 – Hotspot)**

| Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 132072 | 1720 | 1RB-Mid Front | / | 22.56 | 23.00 | 0.055 | **0.06** | 0.097 | **0.11** | 0.12 |
| 132072 | 1720 | 1RB-Mid Rear | Fig.46 | 22.56 | 23.00 | 0.098 | **0.11** | 0.194 | **0.21** | -0.09 |
| 132072 | 1720 | 1RB-Mid Left | / | 22.56 | 23.00 | 0.025 | **0.03** | 0.043 | **0.05** | -0.04 |
| 132072 | 1720 | 1RB-Mid Top | / | 22.56 | 23.00 | 0.094 | **0.10** | 0.181 | **0.20** | 0.09 |
| 132072 | 1720 | 50RB-Mid Front | / | 22.53 | 23.00 | 0.055 | **0.06** | 0.097 | **0.11** | 0.13 |
| 132072 | 1720 | 50RB-Mid Rear | / | 22.53 | 23.00 | 0.087 | **0.10** | 0.170 | **0.19** | -0.10 |
| 132072 | 1720 | 50RB-Mid Left | / | 22.53 | 23.00 | 0.024 | **0.03** | 0.041 | **0.05** | -0.09 |
| 132072 | 1720 | 50RB-Mid Top | / | 22.53 | 23.00 | 0.092 | **0.10** | 0.172 | **0.19** | 0.05 |

Note1: The distance between the EUT and the phantom bottom is 10mm

Note2: The LTE mode is QPSK_20MHz.

Note3: The results are for ENDC only.

**Table 14.1-47: SAR Values (LTE Band71- Head)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g)(W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 133322 | 683 | 1RB-Mid | Left | Cheek | / | 22.70 | 24.00 | 0.026 | **0.04** | 0.033 | **0.04** | 0.03 |
| 133322 | 683 | 1RB-Mid | Left | Tilt | / | 22.70 | 24.00 | <0.01 | <0.01 | <0.01 | <0.01 | / |
| 133322 | 683 | 1RB-Mid | Right | Cheek | / | 22.70 | 24.00 | 0.035 | **0.05** | 0.045 | **0.06** | 0.18 |
| 133322 | 683 | 1RB-Mid | Right | Tilt | Fig.47 | 22.70 | 24.00 | 0.043 | **0.06** | 0.056 | **0.08** | 0.09 |
| 133322 | 683 | 50RB-Low | Left | Cheek | / | 21.64 | 23.00 | 0.021 | **0.03** | 0.028 | **0.04** | 0.02 |
| 133322 | 683 | 50RB-Low | Left | Tilt | / | 21.64 | 23.00 | <0.01 | <0.01 | <0.01 | <0.01 | / |
| 133322 | 683 | 50RB-Low | Right | Cheek | / | 21.64 | 23.00 | 0.030 | **0.04** | 0.039 | **0.05** | -0.06 |
| 133322 | 683 | 50RB-Low | Right | Tilt | / | 21.64 | 23.00 | 0.027 | **0.04** | 0.051 | **0.07** | 0.08 |

Note1: The LTE mode is QPSK_20MHz.

**Table 14.1-48 SAR Values (LTE Band71 – Body)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 133322 | 683 | 1RB-Mid Front | / | 22.70 | 24.00 | 0.080 | **0.11** | 0.105 | **0.14** | 0.01 |
| 133322 | 683 | 1RB-Mid Rear | / | 22.70 | 24.00 | 0.133 | **0.18** | 0.173 | **0.23** | -0.1 |
| 133322 | 683 | 1RB-Mid Left | / | 22.70 | 24.00 | 0.077 | **0.10** | 0.110 | **0.15** | -0.08 |
| 133322 | 683 | 1RB-Mid Right | Fig.48 | 22.70 | 24.00 | 0.148 | **0.20** | 0.210 | **0.28** | -0.07 |
| 133322 | 683 | 1RB-Mid Bottom | / | 22.70 | 24.00 | 0.060 | **0.08** | 0.124 | **0.17** | -0.09 |
| 133322 | 683 | 50RB-Mid Front | / | 21.64 | 23.00 | 0.071 | **0.10** | 0.093 | **0.13** | -0.04 |
| 133322 | 683 | 50RB-Mid Rear | / | 21.64 | 23.00 | 0.117 | **0.16** | 0.153 | **0.21** | 0.09 |
| 133322 | 683 | 50RB-Mid Left | / | 21.64 | 23.00 | 0.065 | **0.09** | 0.093 | **0.13** | 0.09 |
| 133322 | 683 | 50RB-Mid Right | | 21.64 | 23.00 | 0.126 | **0.17** | 0.179 | **0.24** | 0.09 |
| 133322 | 683 | 50RB-Mid Bottom | / | 21.64 | 23.00 | 0.053 | **0.07** | 0.108 | **0.15** | 0.03 |

Note1: The distance between the EUT and the phantom bottom is 10mm

Note2: The LTE mode is QPSK_20MHz.

## 14.2 SAR results for 5G NR

**Table 14.2-1: SAR Values (n25 ANT1–Head) – SA/NSA**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g)(W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 374592 | 1882.5 | Left | Cheek | Fig.49 | 22.91 | 24.00 | 0.139 | **0.18** | 0.219 | **0.28** | -0.13 |
| 374592 | 1882.5 | Left | Tilt | / | 22.91 | 24.00 | 0.053 | **0.07** | 0.082 | **0.11** | 0.05 |
| 374592 | 1882.5 | Right | Cheek | / | 22.91 | 24.00 | 0.075 | **0.10** | 0.112 | **0.14** | -0.09 |
| 374592 | 1882.5 | Right | Tilt | / | 22.91 | 24.00 | 0.066 | **0.08** | 0.107 | **0.14** | 0.03 |

**Table 14.2-2: SAR Values (n25 ANT1–Body worn) – SA/NSA**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 374592 | 1882.5 | Front | / | 22.91 | 24.00 | 0.133 | **0.17** | 0.222 | **0.29** | -0.09 |
| 374592 | 1882.5 | Rear | Fig.50 | 22.91 | 24.00 | 0.202 | **0.26** | 0.344 | **0.44** | 0.06 |

Note1: The distance between the EUT and the phantom bottom is 15mm

**Table 14.2-3: SAR Values (n25 ANT1–Hotspot) – SA/NSA**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 370092 | 1860 | Front | / | 21.48 | 22.00 | 0.127 | **0.14** | 0.214 | **0.24** | 0.06 |
| 370092 | 1860 | Rear | Fig.51 | 21.48 | 22.00 | 0.206 | **0.23** | 0.373 | **0.42** | -0.12 |
| 370092 | 1860 | Left | / | 21.48 | 22.00 | 0.097 | **0.11** | 0.177 | **0.20** | 0.03 |
| 370092 | 1860 | Bottom | / | 21.48 | 22.00 | 0.166 | **0.19** | 0.300 | **0.34** | -0.10 |

Note1: The distance between the EUT and the phantom bottom is 10mm

**Table 14.2-4: SAR Values (n25 ANT4–Head) – NSA**

| Ambient Temperature: 22.9 ºC | | | | | Liquid Temperature: 22.5ºC | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g)(W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 370092 | 1860 | Left | Cheek | | 17.84 | 18.50 | 0.180 | **0.21** | 0.348 | **0.41** | 0.04 |
| 370092 | 1860 | Left | Tilt | / | 17.84 | 18.50 | 0.240 | **0.28** | 0.523 | **0.61** | 0.05 |
| 370092 | 1860 | Right | Cheek | / | 17.84 | 18.50 | 0.276 | **0.32** | 0.556 | **0.65** | 0.15 |
| 370092 | 1860 | Right | Tilt | Fig.52 | 17.84 | 18.50 | 0.301 | **0.35** | 0.645 | **0.75** | -0.14 |

**Table 14.2-5: SAR Values (n25 ANT4–Body worn) – NSA**

| Ambient Temperature: 22.9 ºC | | | | Liquid Temperature: 22.5ºC | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 370050 | 1852.5 | Front | / | 23.84 | 24.00 | 0.134 | **0.14** | 0.227 | **0.24** | 0.07 |
| 370050 | 1852.5 | Rear | Fig.53 | 23.84 | 24.00 | 0.178 | **0.18** | 0.310 | **0.32** | -0.07 |

Note1: The distance between the EUT and the phantom bottom is 15mm

**Table 14.2-6: SAR Values (n25 ANT4–Hotspot) – NSA**

| Ambient Temperature: 22.9 ºC | | | | Liquid Temperature: 22.5ºC | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 370092 | 1860 | Front | / | 22.16 | 23.00 | 0.207 | **0.25** | 0.374 | **0.45** | 0.13 |
| 370092 | 1860 | Rear | Fig.54 | 22.16 | 23.00 | 0.305 | **0.37** | 0.563 | **0.68** | -0.01 |
| 370092 | 1860 | Left | / | 22.16 | 23.00 | 0.093 | **0.11** | 0.160 | **0.19** | 0.07 |
| 370092 | 1860 | Top | / | 22.16 | 23.00 | 0.207 | **0.25** | 0.391 | **0.47** | 0.19 |

Note1: The distance between the EUT and the phantom bottom is 10mm

**Table 14.2-7: SAR Values (n41–Head) – SA/NSA**

| Ambient Temperature: 22.9 °C | | | | | Liquid Temperature: 22.5°C | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g)(W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 535988 | 2679.99 | Left | Cheek | / | 16.29 | 17.00 | 0.065 | **0.08** | 0.139 | **0.16** | -0.09 |
| 535988 | 2679.99 | Left | Tilt | / | 16.29 | 17.00 | 0.102 | **0.12** | 0.231 | **0.27** | 0.19 |
| 535988 | 2679.99 | Right | Cheek | / | 16.29 | 17.00 | 0.198 | **0.23** | 0.454 | **0.53** | -0.06 |
| 535988 | 2679.99 | Right | Tilt | Fig.55 | 16.29 | 17.00 | 0.244 | **0.29** | 0.576 | **0.68** | -0.14 |

**Table 14.2-8: SAR Values (n41–Body worn) – SA/NSA**

| Ambient Temperature: 22.9 °C | | | | Liquid Temperature: 22.5°C | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 518598 | 2592.99 | Front | / | 25.36 | 27.00 | 0.129 | **0.19** | 0.241 | **0.35** | -0.01 |
| 518598 | 2592.99 | Rear | Fig.56 | 25.36 | 27.00 | 0.140 | **0.20** | 0.278 | **0.41** | 0.12 |

Note1: The distance between the EUT and the phantom bottom is 15mm

**Table 14.2-9: SAR Values (n41–Hotspot) – SA/NSA**

| Ambient Temperature: 22.9 °C | | | | Liquid Temperature: 22.5°C | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 535988 | 2679.99 | Front | / | 20.45 | 21.50 | 0.152 | **0.19** | 0.283 | **0.36** | -0.03 |
| 535988 | 2679.99 | Rear | / | 20.45 | 21.50 | 0.138 | **0.18** | 0.250 | **0.32** | 0.06 |
| 535988 | 2679.99 | Left | / | 20.45 | 21.50 | 0.163 | **0.21** | 0.306 | **0.39** | 0.15 |
| 535988 | 2679.99 | Right | / | 20.45 | 21.50 | <0.01 | <0.01 | <0.01 | <0.01 | / |
| 535988 | 2679.99 | Top | Fig.57 | 20.45 | 21.50 | 0.199 | **0.25** | 0.483 | **0.62** | -0.16 |

Note1: The distance between the EUT and the phantom bottom is 10mm

**Table 14.2-10: SAR Values (n66 ANT1–Head) – SA/NSA**

| Ambient Temperature: 22.9 °C | | | | | Liquid Temperature: 22.5°C | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g)(W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 349000 | 1745 | Left | Cheek | Fig.58 | 22.98 | 24.00 | 0.146 | **0.18** | 0.222 | **0.28** | 0.03 |
| 349000 | 1745 | Left | Tilt | / | 22.98 | 24.00 | 0.060 | **0.08** | 0.088 | **0.11** | -0.12 |
| 349000 | 1745 | Right | Cheek | | 22.98 | 24.00 | 0.083 | **0.10** | 0.118 | **0.15** | -0.03 |
| 349000 | 1745 | Right | Tilt | / | 22.98 | 24.00 | 0.055 | **0.07** | 0.084 | **0.11** | -0.03 |

**Table 14.2-11: SAR Values (n66 ANT1– Body worn) – SA/NSA**

| Ambient Temperature: 22.9 °C | | | | Liquid Temperature: 22.5°C | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 349000 | 1745 | Front | / | 22.98 | 24.00 | 0.177 | **0.22** | 0.254 | **0.32** | -0.03 |
| 349000 | 1745 | Rear | Fig.59 | 22.98 | 24.00 | 0.260 | **0.33** | 0.397 | **0.50** | -0.04 |

Note1: The distance between the EUT and the phantom bottom is 15mm

**Table 14.2-12: SAR Values (n66 ANT1 –Hotspot) – SA/NSA**

| Ambient Temperature: 22.9 °C | | | | Liquid Temperature: 22.5°C | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 349000 | 1745 | Front | / | 19.43 | 20.00 | 0.106 | **0.12** | 0.169 | **0.19** | 0.02 |
| 349000 | 1745 | Rear | Fig.60 | 19.43 | 20.00 | 0.157 | **0.18** | 0.271 | **0.31** | 0.09 |
| 349000 | 1745 | Left | / | 19.43 | 20.00 | 0.098 | **0.11** | 0.164 | **0.19** | 0.15 |
| 349000 | 1745 | Bottom | / | 19.43 | 20.00 | 0.138 | **0.16** | 0.238 | **0.27** | -0.03 |

Note1: The distance between the EUT and the phantom bottom is 10mm

**Table 14.2-13: SAR Values (n66 ANT4–Head) – NSA**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g)(W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 346000 | 1730 | Left | Cheek | Note1 | 21.94 | 22.50 | 0.134 | **0.15** | 0.267 | **0.30** | -0.09 |
| 346000 | 1730 | Left | Tilt | Note1 | 21.94 | 22.50 | 0.174 | **0.20** | 0.361 | **0.41** | -0.16 |
| 346000 | 1730 | Right | Cheek | Note1 | 21.94 | 22.50 | 0.214 | **0.24** | 0.440 | **0.50** | -0.05 |
| 346000 | 1730 | Right | Tilt | Note1/ Fig.61 | 21.94 | 22.50 | 0.283 | **0.32** | 0.643 | **0.73** | 0.12 |
| 346000 | 1730 | Left | Cheek | Note2 | 20.41 | 21.00 | 0.059 | **0.07** | 0.108 | **0.12** | -0.05 |
| 346000 | 1730 | Left | Tilt | Note2 | 20.41 | 21.00 | 0.106 | **0.12** | 0.213 | **0.24** | -0.15 |
| 346000 | 1730 | Right | Cheek | Note2 | 20.41 | 21.00 | 0.125 | **0.14** | 0.257 | **0.29** | -0.11 |
| 346000 | 1730 | Right | Tilt | Note2 | 20.41 | 21.00 | 0.167 | **0.19** | 0.376 | **0.43** | -0.18 |

Note1: The results are for cellular antenna transmit alone.

Note2: The results are for cellular antenna transmit with WIFI.

**Table 14.2-14: SAR Values (n66 ANT4 –Body) – NSA**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 346000 | 1730 | Front | / | 22.74 | 24.00 | 0.071 | **0.09** | 0.131 | **0.18** | 0.13 |
| 346000 | 1730 | Rear | Fig.62 | 22.74 | 24.00 | 0.110 | **0.15** | 0.213 | **0.28** | -0.06 |
| 346000 | 1730 | Left | / | 22.74 | 24.00 | 0.037 | **0.05** | 0.067 | **0.09** | -0.11 |
| 346000 | 1730 | Top | / | 22.74 | 24.00 | 0.091 | **0.12** | 0.179 | **0.24** | 0.12 |

Note1: The distance between the EUT and the phantom bottom is 10mm

**Table 14.2-15: SAR Values (n71–Head) – SA/NSA**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g)(W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 134678 | 680.5 | Left | Cheek | / | 22.94 | 24.00 | 0.034 | **0.04** | 0.042 | **0.05** | -0.14 |
| 134678 | 680.5 | Left | Tilt | / | 22.94 | 24.00 | <0.01 | <0.01 | <0.01 | <0.01 | / |
| 134678 | 680.5 | Right | Cheek | Fig.63 | 22.94 | 24.00 | 0.045 | **0.06** | 0.056 | **0.07** | -0.17 |
| 134678 | 680.5 | Right | Tilt | / | 22.94 | 24.00 | <0.01 | <0.01 | <0.01 | <0.01 | 0.13 |

**Table 14.2-16: SAR Values (n71-Body) – SA/NSA**

| Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 135164 | 680.5 | Front | / | 22.94 | 24.00 | 0.061 | **0.08** | 0.078 | **0.10** | 0.08 |
| 135164 | 680.5 | Rear | Fig.64 | 22.94 | 24.00 | 0.100 | **0.13** | 0.128 | **0.16** | -0.19 |
| 135164 | 680.5 | Left | / | 22.94 | 24.00 | <0.01 | <0.01 | <0.01 | <0.01 | / |
| 135164 | 680.5 | Right | / | 22.94 | 24.00 | <0.01 | <0.01 | <0.01 | <0.01 | / |
| 135164 | 680.5 | Bottom | / | 22.94 | 24.00 | 0.050 | **0.06** | 0.106 | **0.14** | 0.09 |

Note1: The distance between the EUT and the phantom bottom is 10mm

## 14.3 WLAN Evaluation for 2.4G

According to the KDB248227 D01, SAR is measured for 2.4GHz 802.11b DSSS using the initial test position procedure.

**Head Evaluation**

**Table 14.3-1: SAR Values (WLAN - Head)– 802.11b (Fast SAR)**

| Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Side | Test Position | Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g)(W/kg) | Measured SAR(10g) (W/kg) | Reported SAR(10g)(W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 11 | 2462 | Left | Cheek | Note1 | 18.53 | 19.00 | 0.231 | **0.26** | 0.571 | **0.64** | 0.17 |
| 6 | 2437 | Left | Cheek | Note1 | 18.90 | 19.50 | 0.455 | **0.52** | 0.890 | **1.02** | -0.02 |
| 11 | 2462 | Left | Tilt | Note1 | 18.53 | 19.00 | 0.266 | **0.30** | 0.607 | **0.68** | 0.11 |
| 6 | 2437 | Left | Tilt | Note1 | 18.90 | 19.50 | 0.411 | **0.47** | 0.932 | **1.07** | 0.1 |
| 6 | 2437 | Right | Cheek | Note1 | 18.90 | 19.50 | 0.296 | **0.34** | 0.541 | **0.62** | 0.05 |
| 6 | 2437 | Right | Tilt | Note1 | 18.90 | 19.50 | 0.268 | **0.31** | 0.526 | **0.60** | -0.12 |
| 6 | 2437 | Left | Cheek | Note2 | 16.95 | 17.50 | 0.222 | **0.25** | 0.423 | **0.48** | -0.08 |
| 6 | 2437 | Left | Tilt | Note2 | 16.95 | 17.50 | 0.214 | **0.24** | 0.493 | **0.56** | 0.11 |
| 6 | 2437 | Right | Cheek | Note2 | 16.95 | 17.50 | 0.160 | **0.18** | 0.282 | **0.32** | 0.12 |
| 6 | 2437 | Right | Tilt | Note2 | 16.95 | 17.50 | 0.141 | **0.16** | 0.277 | **0.31** | -0.09 |

Note1: The results are for Wifi antenna transmit standalone.

Note2: The results are for Wifi antenna transmit with WWAN.

As shown above table, the initial test position for head is “Left Tilt”. So the head SAR of WLAN is presented as below:

**Table 14.3-2: SAR Values (WLAN - Head)– 802.11b (Full SAR)**

| Ambient Temperature: 22.9 °C Liquid Temperature: 22.5°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Side | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g)(W/kg) | Measured SAR(10g) (W/kg) | Reported SAR(10g)(W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 11 | 2462 | Left | Cheek | / | 18.90 | 19.50 | 0.234 | **0.27** | 0.575 | **0.66** | 0.17 |
| 6 | 2437 | Left | Cheek | / | 18.90 | 19.50 | 0.460 | **0.53** | 0.896 | **1.03** | -0.02 |
| 11 | 2462 | Left | Tilt | / | 18.53 | 19.00 | 0.270 | **0.30** | 0.610 | **0.68** | 0.11 |
| 6 | 2437 | Left | Tilt | Fig.65 | 18.90 | 19.50 | 0.409 | **0.47** | 0.935 | **1.07** | 0.1 |
| 6 | 2437 | Right | Cheek | / | 18.90 | 19.50 | 0.299 | **0.34** | 0.544 | **0.62** | 0.05 |

Note1: When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest estimated 1-g SAR conditions determined by area scans, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg.

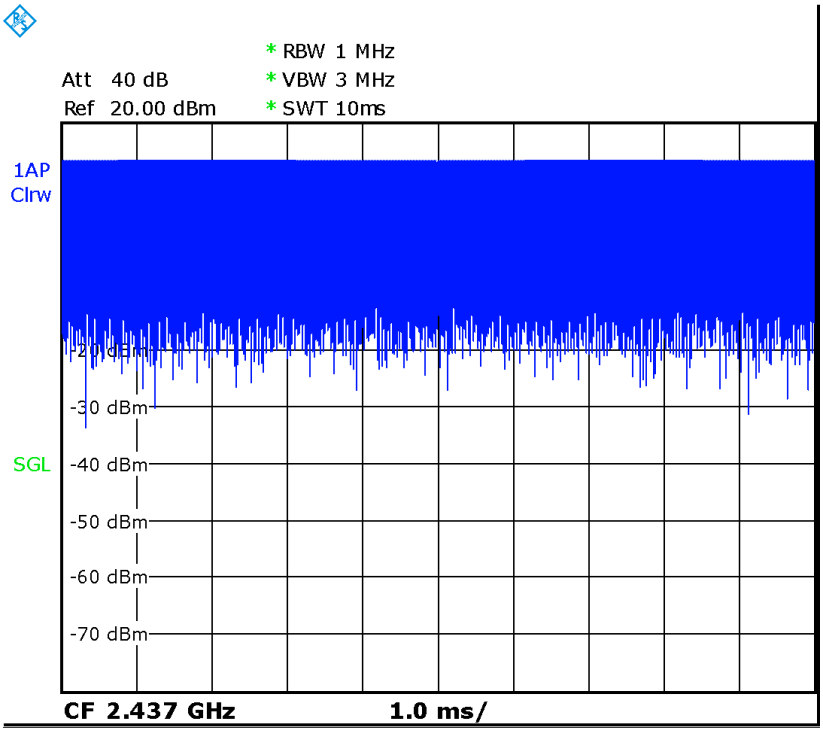
Note2: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit. The scaled reported SAR is presented as below.

**Table 14.3-3: SAR Values (WLAN - Head) – 802.11b (Scaled Reported SAR)**

| Ambient Temperature: 22.9 ºC | | | Liquid Temperature: 22.5ºC | | | | |
|---|---|---|---|---|---|---|---|
| Frequency | | Side | Test Position | Actual duty factor | maximum duty factor | Reported SAR (1g)(W/kg) | Scaled reported SAR (1g)(W/kg) |
| MHz | Ch. | | | | | | |
| 2437 | 6 | Left | Tilt | 100% | 100% | **1.07** | **1.07** |

SAR is not required for OFDM because the 802.11b adjusted SAR ≤ 1.2 W/kg.




**Picture 14.3-1 Duty factor plot**

**Body Evaluation**

**Table 14.3-4: SAR Values (WLAN - Body)– 802.11b (Fast SAR)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Test Position | Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g)(W/kg) | Measured SAR(10g) (W/kg) | Reported SAR(10g)(W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 6 | 2437 | Front | Note1 | 21.65 | 22.50 | 0.026 | **0.03** | 0.050 | **0.06** | 0.02 |
| 6 | 2437 | Rear | Note1 | 21.65 | 22.50 | 0.012 | **0.01** | 0.025 | **0.03** | 0.04 |
| 6 | 2437 | Front | Note2 | 16.95 | 17.50 | 0.055 | **0.06** | 0.108 | **0.12** | 0.03 |
| 6 | 2437 | Rear | Note2 | 16.95 | 17.50 | 0.079 | **0.09** | 0.168 | **0.19** | -0.06 |
| 6 | 2437 | Right | Note2 | 16.95 | 17.50 | <0.01 | <0.01 | <0.01 | <0.01 | / |
| 6 | 2437 | Top | Note2 | 16.95 | 17.50 | 0.078 | **0.09** | 0.176 | **0.20** | 0.09 |

Note1: The results are used for body worn mode, the distance between the EUT and the phantom bottom is 15mm.

Note2: The results are used for hotspot mode, the distance between the EUT and the phantom bottom is 10mm.

As shown above table, the initial test position for body is “Rear 10mm”. So the body SAR of WLAN is presented as below:

**Table 14.3-5: SAR Values (WLAN - Body)– 802.11b (Full SAR)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Test Position | Figure No./ Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g)(W/kg) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 6 | 2437 | Front 15mm | Fig.A.66 | 21.65 | 22.50 | 0.026 | **0.03** | 0.050 | **0.06** | 0.02 |
| 6 | 2437 | Rear 10mm | Fig.A.67 | 16.95 | 17.50 | 0.080 | **0.09** | 0.177 | **0.20** | 0.09 |

Note1: When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest estimated 1-g SAR conditions determined by area scans, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg.

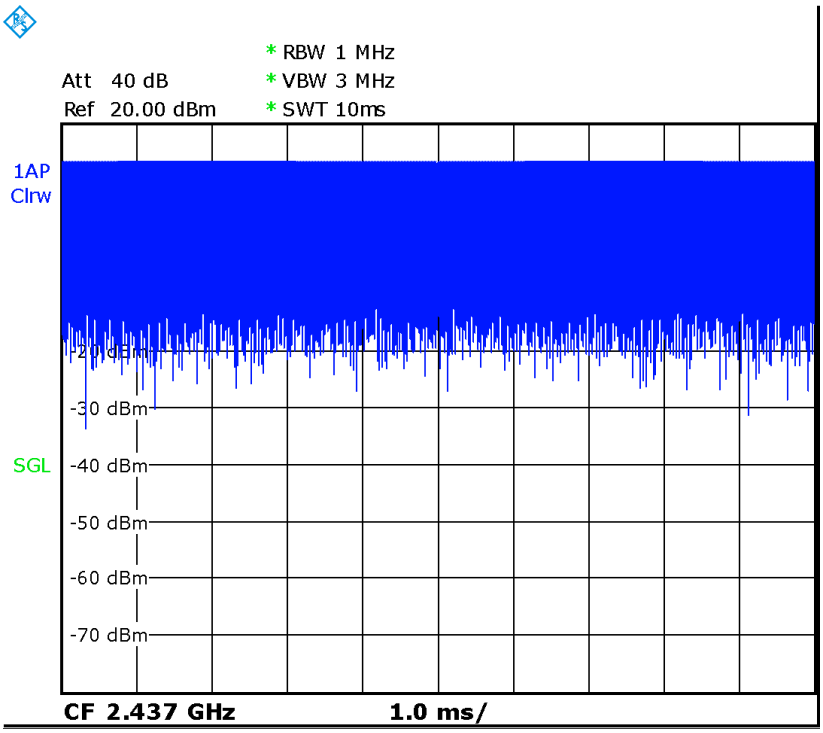
Note2: For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit. The scaled reported SAR is presented as below.

**Table 14.3-6: SAR Values (WLAN - Body) – 802.11b (Scaled Reported SAR)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | |
|---|---|---|---|---|---|---|
| Frequency | | Test Position | Actual duty factor | maximum duty factor | Reported SAR (1g)(W/kg) | Scaled reported SAR (1g)(W/kg) |
| Ch. | MHz | | | | | |
| 6 | 2437 | Front 15mm | 100% | 100% | **0.06** | **0.06** |
| 6 | 2437 | Rear 10mm | 100% | 100% | **0.20** | **0.20** |

SAR is not required for OFDM because the 802.11b adjusted SAR ≤ 1.2 W/kg.




**Picture 14.3-2 Duty factor plot**

## 14.4 WLAN Evaluation For 5G

**Table 14.4-1: OFDM mode specified maximum output power of WLAN antenna**

| 802.11 mode | a | g | n | | ac | | | |
|---|---|---|---|---|---|---|---|---|
| Ch. BW(MHz) | 20 | 20 | 20 | 40 | 20 | 40 | 80 | 160 |
| U-NII-1 | X | | X | X | X | X | X | |
| U-NII-2A | X | | X | X | X | X | X | |
| U-NII-2C | X | | X | X | X | X | X | |
| U-NII-3 | X | | X | X | X | X | X | |
| § 15.247 (5.8 GHz) | | | | | | | | |
| X: maximum(conducted) output power(mW), including tolerance, specified for production units | | | | | | | | |

**Table 14.4-2: Maximum output power specified of WLAN antenna – Body worn**

| 802.11 mode | a | g | n | | ac | | | |
|---|---|---|---|---|---|---|---|---|
| Ch. BW(MHz) | 20 | 20 | 20 | 40 | 20 | 40 | 80 | 160 |
| U-NII-1 | 100 | | 112 | 89 | 112 | 89 | 45 | |
| U-NII-2A | 100 | | 112 | 45 | 112 | 45 | 45 | |
| U-NII-2C | 100 | | 126 | 89 | 112 | 89 | 71 | |
| U-NII-3 | 100 | | 126 | 100 | 112 | 89 | 71 | |
| § 15.247 (5.8 GHz) | | | | | | | | |

- The maximum output power specified for production units is the same for all channels, modulations and data rates in each channel bandwidth configuration of the 802.11a/g/n/ac modes.
- The blue highlighted cells represent highest output configurations in each standalone or aggregated frequency band, with tune-up tolerance included.

**Table 14.4-3: Maximum output power specified of WLAN antenna –Head (Transmit alone) and Hotspot**

| 802.11 mode | a | g | n | | ac | | | |
|---|---|---|---|---|---|---|---|---|
| Ch. BW(MHz) | 20 | 20 | 20 | 40 | 20 | 40 | 80 | 160 |
| U-NII-1 | 28 | | 32 | 28 | 32 | 28 | 25 | |
| U-NII-2A | 28 | | 32 | 28 | 32 | 25 | 25 | |
| U-NII-2C | 35 | | 40 | 28 | 32 | 28 | 28 | |
| U-NII-3 | 35 | | 40 | 32 | 32 | 28 | 28 | |
| § 15.247 (5.8 GHz) | | | | | | | | |

- The maximum output power specified for production units is the same for all channels, modulations and data rates in each channel bandwidth configuration of the 802.11a/g/n/ac modes.
- The blue highlighted cells represent highest output configurations in each standalone or aggregated frequency band, with tune-up tolerance included.

**Table 14.4-4: Maximum output power specified of WLAN antenna – Head (Transmit with WWAN)**

| 802.11 mode | a | g | n | | ac | | | |
|---|---|---|---|---|---|---|---|---|
| Ch. BW(MHz) | 20 | 20 | 20 | 40 | 20 | 40 | 80 | 160 |
| U-NII-1 | 16 | | 18 | 16 | 20 | 16 | 16 | |
| U-NII-2A | 16 | | 20 | 16 | 20 | 16 | 16 | |
| U-NII-2C | 16 | | 20 | 16 | 20 | 16 | 16 | |
| U-NII-3 | 16 | | 20 | 18 | 20 | 16 | 16 | |
| § 15.247 (5.8 GHz) | | | | | | | | |

- The maximum output power specified for production units is the same for all channels, modulations and data rates in each channel bandwidth configuration of the 802.11a/g/n/ac modes.
- The blue highlighted cells represent highest output configurations in each standalone or aggregated frequency band, with tune-up tolerance included.

**Table 14.4-5: Maximum output power specified of WLAN antenna – Body (Transmit alone)**

| 802.11 mode | a | g | n | | ac | | | |
|---|---|---|---|---|---|---|---|---|
| Ch. BW(MHz) | 20 | 20 | 20 | 40 | 20 | 40 | 80 | 160 |
| U-NII-1 | 56 | | 63 | 56 | 56 | 50 | 45 | |
| U-NII-2A | 56 | | 63 | 45 | 56 | 45 | 45 | |
| U-NII-2C | 56 | | 79 | 50 | 56 | 50 | 56 | |
| U-NII-3 | 63 | | 79 | 56 | 56 | 50 | 56 | |
| § 15.247 (5.8 GHz) | | | | | | | | |

- The maximum output power specified for production units is the same for all channels, modulations and data rates in each channel bandwidth configuration of the 802.11a/g/n/ac modes.
- The blue highlighted cells represent highest output configurations in each standalone or aggregated frequency band, with tune-up tolerance included.

**Table 14.4-6: Maximum output power measured of WLAN antenna, for the applicable OFDM configurations according to the default power measurement procedures for selection initial test configurations –Body worn**

| 802.11 Mode | a | n | | ac | | |
|---|---|---|---|---|---|---|
| BW(MHz) | 20 | 20 | 40 | 20 | 40 | 80 |
| U-NII-1 | 36/40/44/48<br>Lower power | 36/40/44/48<br>**79/78/79/82** | 38/46<br>Lower power | 36/40/44/48<br>Lower power | 38/46<br>Lower power | 42<br>Lower power |
| U-NII-2A | 52/56/60/64<br>Lower power | 52/56/60/64<br>**90/90/93/91** | 54/62<br>Lower power | 52/56/60/64<br>Lower power | 54/62<br>Lower power | 58<br>Lower power |
| U-NII-2C | 100/104/108/112 116/120/124/128/ 132/136/140/144<br>Lower power | 100/104/108/112 116/120/124/128/1 32/136/140/144<br>**85/89/87/86/87/92/ 96/101/104/108/69/ 99** | 102/110/118/ 126/134/142<br>Lower power | 100/104/108/112 116/120/124/128/ 132/136/140/144<br>Lower power | 102/110/118/ 126/134/142<br>Lower power | 106/122/ 138<br>Lower power |
| U-NII-3 | 149/153/157/161/ 165<br>Lower power | 149/153/157/161/1 65<br>**94/95/102/104/108** | 151/159<br>Lower power | 149/153/157/161 /165<br>Lower power | 151/159<br>Lower power | 155<br>Lower power |

- The **bold numbers** is the maximum output measured power (mW).
- Channels with measured maximum power within 0.25dB are considered to have the same measured output. Channels selected for initial test configuration are highlighted in yellow.

**Table 14.4-7: Maximum output power measured of WLAN antenna, for the applicable OFDM configurations according to the default power measurement procedures for selection initial test configurations – Head (Transmit alone) and Hotspot**

| 802.11 Mode | a | n | | ac | | |
|---|---|---|---|---|---|---|
| **BW(MHz)** | **20** | **20** | **40** | **20** | **40** | **80** |
| **U-NII-1** | 36/40/44/48<br>Lower power | 36/40/44/48<br>**26/26/25/26** | 38/46<br>Lower power | 36/40/44/48<br>Lower power | 38/46<br>Lower power | 42<br>Lower power |
| **U-NII-2A** | 52/56/60/64<br>Lower power | 52/56/60/64<br>**26/29/30/27** | 54/62<br>Lower power | 52/56/60/64<br>Lower power | 54/62<br>Lower power | 58<br>Lower power |
| **U-NII-2C** | 100/104/108/112<br>116/120/124/128/<br>132/136/140/144<br>Lower power | 100/104/108/112<br>116/120/124/128/<br>132/136/140/144<br>**31/30/30/29/29/29/32/34/34/37/21/34** | 102/110/118/<br>126/134/142<br>Lower power | 100/104/108/112<br>116/120/124/128/<br>132/136/140/144<br>Lower power | 102/110/118/<br>126/134/142<br>Lower power | 106/122/<br>138<br>Lower power |
| **U-NII-3** | 149/153/157/161/<br>165<br>Lower power | 149/153/157/161/<br>165<br>**33/30/34/34/38** | 151/159<br>Lower power | 149/153/157/161<br>/165<br>Lower power | 151/159<br>Lower power | 155<br>Lower power |

- The **bold numbers** is the maximum output measured power (mW).
- Channels with measured maximum power within 0.25dB are considered to have the same measured output. Channels selected for initial test configuration are highlighted in yellow.

**Table 14.4-8: Maximum output power measured of WLAN antenna, for the applicable OFDM configurations according to the default power measurement procedures for selection initial test configurations – Head (Transmit with WWAN)**

| 802.11 Mode | a | n | | ac | | |
|---|---|---|---|---|---|---|
| BW(MHz) | 20 | 20 | 40 | 20 | 40 | 80 |
| U-NII-1 | 36/40/44/48<br>Lower power | 36/40/44/48<br>**16/14/15/15** | 38/46<br>Lower power | 36/40/44/48<br>Lower power | 38/46<br>Lower power | 42<br>Lower power |
| U-NII-2A | 52/56/60/64<br>Lower power | 52/56/60/64<br>**16/17/17/18** | 54/62<br>Lower power | 52/56/60/64<br>Lower power | 54/62<br>Lower power | 58<br>Lower power |
| U-NII-2C | 100/104/108/112<br>116/120/124/128/<br>132/136/140/144<br>Lower power | 100/104/108/112<br>116/120/124/128/<br>132/136/140/144<br>**18/16/17/15/15/15<br>/16/17/18/19/15/1<br>9** | 102/110/118/<br>126/134/142<br>Lower power | 100/104/108/112<br>116/120/124/128/<br>132/136/140/144<br>Lower power | 102/110/118/<br>126/134/142<br>Lower power | 106/122/<br>138<br>Lower power |
| U-NII-3 | 149/153/157/161/<br>165<br>Lower power | 149/153/157/161/<br>165<br>**18/18/18/19/20** | 151/159<br>Lower power | 149/153/157/161<br>/165<br>Lower power | 151/159<br>Lower power | 155<br>Lower power |

- The **bold numbers** is the maximum output measured power (mW).
- Channels with measured maximum power within 0.25dB are considered to have the same measured output. Channels selected for initial test configuration are highlighted in yellow.

**Table 14.4-9: Maximum output power measured of WLAN antenna, for the applicable OFDM configurations according to the default power measurement procedures for selection initial test configurations – Body (Transmit alone)**

| 802.11 Mode | a | n | | ac | | |
|---|---|---|---|---|---|---|
| **BW(MHz)** | **20** | **20** | **40** | **20** | **40** | **80** |
| **U-NII-1** | 36/40/44/48<br>Lower power | 36/40/44/48<br>**54/53/50/51** | 38/46<br>Lower power | 36/40/44/48<br>Lower power | 38/46<br>Lower power | 42<br>Lower power |
| **U-NII-2A** | 52/56/60/64<br>Lower power | 52/56/60/64<br>**57/58/59/57** | 54/62<br>Lower power | 52/56/60/64<br>Lower power | 54/62<br>Lower power | 58<br>Lower power |
| **U-NII-2C** | 100/104/108/112<br>116/120/124/128/<br>132/136/140/144<br>Lower power | 100/104/108/112<br>116/120/124/128/1<br>32/136/140/144<br>**68/72/67/63/60/62/<br>62/70/75/69/43/68** | 102/110/118/<br>126/134/142<br>Lower power | 100/104/108/112<br>116/120/124/128/<br>132/136/140/144<br>Lower power | 102/110/118/<br>126/134/142<br>Lower power | 106/122/<br>138<br>Lower power |
| **U-NII-3** | 149/153/157/161/<br>165<br>Lower power | 149/153/157/161/1<br>65<br>**59/65/66/68/73** | 151/159<br>Lower power | 149/153/157/161<br>/165<br>Lower power | 151/159<br>Lower power | 155<br>Lower power |

- The **bold numbers** is the maximum output measured power (mW).
- Channels with measured maximum power within 0.25dB are considered to have the same measured output. Channels selected for initial test configuration are highlighted in yellow.

**Table 14.4-10: Reported SAR of initial test configuration for Head transmit alone**

| 802.11 mode | a | n | | ac | | |
|---|---|---|---|---|---|---|
| **BW(MHz)** | **20** | **20** | **40** | **20** | **40** | **80** |
| **U-NII-1** | 36/40/44/48 | 36/40/44/48 | 38/46 | 36/40/44/48 | 38/46 | 42 |
| **U-NII-2A** | 52/56/60/64 | 52/56/60/64<br>**1.08** | 54/62 | 52/56/60/64 | 54/62 | 58 |
| **U-NII-2C** | 100/104/108/112/116/120/<br>124/128/132/136/140/144 | 100/104/108/112/<br>116/120/124/128/<br>132/136/140/144<br>**0.65** | 102/110/<br>118/126/<br>134/142 | 100/104/108/112<br>/116/120/124/12<br>8/132/136/140/1<br>44 | 102/110<br>/118/12<br>6/134/1<br>42 | 106/12<br>2/138 |
| **U-NII-3** | 149/153/157/161/165 | 149/153/157/161<br>/165<br>**0.39** | 151/159 | 149/153/157/161<br>/165 | 151/159 | 155 |
| Highest measured output power channel tested initially are in yellow highlight. | | | | | | |

**Table 14.4-11: Reported SAR of initial test configuration for Head transmit with WWAN**

| 802.11 mode | a | n | | ac | | |
|---|---|---|---|---|---|---|
| **BW(MHz)** | **20** | **20** | **40** | **20** | **40** | **80** |
| **U-NII-1** | 36/40/44/48 | 36/40/44/48 | 38/46 | 36/40/44/48 | 38/46 | 42 |
| **U-NII-2A** | 52/56/60/64 | 52/56/60/64<br>**0.75** | 54/62 | 52/56/60/64 | 54/62 | 58 |
| **U-NII-2C** | 100/104/108/112/116/120/124/128/132/136/140/144 | 100/104/108/112/116/120/124/128/132/136/140/144<br>**0.51** | 102/110/118/126/134/142 | 100/104/108/112/116/120/124/128/132/136/140/144 | 102/110/118/126/134/142 | 106/122/138 |
| **U-NII-3** | 149/153/157/161/165 | 149/153/157/161/165<br>**0.34** | 151/159 | 149/153/157/161/165 | 151/159 | 155 |
| Highest measured output power channel tested initially are in yellow highlight. | | | | | | |

**Table 14.4-12: Reported SAR of initial test configuration for Body worn**

| 802.11 mode | a | n | | ac | | |
|---|---|---|---|---|---|---|
| **BW(MHz)** | **20** | **20** | **40** | **20** | **40** | **80** |
| **U-NII-1** | 36/40/44/48 | 36/40/44/48 | 38/46 | 36/40/44/48 | 38/46 | 42 |
| **U-NII-2A** | 52/56/60/64 | 52/56/60/64<br>**0.32** | 54/62 | 52/56/60/64 | 54/62 | 58 |
| **U-NII-2C** | 100/104/108/112/116/120/124/128/132/136/140/144 | 100/104/108/112/116/120/124/128/132/136/140/144<br>**0.29** | 102/110/118/126/134/142 | 100/104/108/112/116/120/124/128/132/136/140/144 | 102/110/118/126/134/142 | 106/122/138 |
| **U-NII-3** | 149/153/157/161/165 | 149/153/157/161/165<br>**0.40** | 151/159 | 149/153/157/161/165 | 151/159 | 155 |
| Highest measured output power channel tested initially are in yellow highlight. | | | | | | |

**Table 14.4-13: Reported SAR of initial test configuration for Hotspot**

| 802.11 mode | a | n | | ac | | |
|---|---|---|---|---|---|---|
| **BW(MHz)** | **20** | **20** | **40** | **20** | **40** | **80** |
| **U-NII-1** | 36/40/44/48 | 36/40/44/48 | 38/46 | 36/40/44/48 | 38/46 | 42 |
| **U-NII-2A** | 52/56/60/64 | 52/56/60/64<br>**0.40** | 54/62 | 52/56/60/64 | 54/62 | 58 |
| **U-NII-2C** | 100/104/108/112/116/120/124/128/132/136/140/144 | 100/104/108/112/116/120/124/128/132/136/140/144<br>**0.20** | 102/110/118/126/134/142 | 100/104/108/112/116/120/124/128/132/136/140/144 | 102/110/118/126/134/142 | 106/122/138 |
| **U-NII-3** | 149/153/157/161/165 | 149/153/157/161/165<br>**0.19** | 151/159 | 149/153/157/161/165 | 151/159 | 155 |
| Highest measured output power channel tested initially are in yellow highlight. | | | | | | |

**Table 14.4-14: SAR Values (WLAN 5G - Head)**

| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g)(W/kg) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Power Drift (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ch. | MHz | | | | | | | | | | |
| 60 | 5300 | Left | Cheek | Note1 | 14.83 | 15.00 | 0.193 | **0.20** | 0.844 | **0.88** | 0.07 |
| 56 | 5280 | Left | Cheek | Note1 | 14.68 | 15.00 | 0.172 | **0.19** | 0.811 | **0.87** | 0.09 |
| 60 | 5300 | Left | Tilt | Note1/ Fig.68 | 14.83 | 15.00 | 0.231 | **0.24** | 1.040 | **1.08** | 0.02 |
| 56 | 5280 | Left | Tilt | Note1 | 14.68 | 15.00 | 0.201 | **0.22** | 0.985 | **1.06** | 0.16 |
| 60 | 5300 | Right | Cheek | Note1 | 14.83 | 15.00 | 0.182 | **0.19** | 0.703 | **0.73** | -0.19 |
| 60 | 5300 | Right | Tilt | Note1 | 14.83 | 15.00 | 0.211 | **0.22** | 0.816 | **0.85** | 0.04 |
| 56 | 5280 | Right | Tilt | Note1 | 14.68 | 15.00 | 0.184 | **0.20** | 0.789 | **0.85** | -0.16 |
| 136 | 5680 | Left | Cheek | Note1 | 15.68 | 16.00 | 0.143 | **0.15** | 0.575 | **0.62** | 0.10 |
| 136 | 5680 | Left | Tilt | Note1 | 15.68 | 16.00 | 0.158 | **0.17** | 0.604 | **0.65** | 0.17 |
| 136 | 5680 | Right | Cheek | Note1 | 15.68 | 16.00 | 0.131 | **0.14** | 0.451 | **0.49** | -0.09 |
| 136 | 5680 | Right | Tilt | Note1 | 15.68 | 16.00 | 0.131 | **0.14** | 0.447 | **0.48** | -0.11 |
| 165 | 5825 | Left | Cheek | Note1 | 15.77 | 16.00 | 0.093 | **0.10** | 0.331 | **0.35** | 0.10 |
| 165 | 5825 | Left | Tilt | Note1 | 15.77 | 16.00 | 0.102 | **0.11** | 0.370 | **0.39** | -0.06 |
| 165 | 5825 | Right | Cheek | Note1 | 15.77 | 16.00 | 0.091 | **0.10** | 0.295 | **0.31** | -0.11 |
| 165 | 5825 | Right | Tilt | Note1 | 15.77 | 16.00 | 0.095 | **0.10** | 0.307 | **0.32** | -0.04 |
| 64 | 5320 | Left | Cheek | Note2 | 12.48 | 13.00 | 0.099 | **0.11** | 0.416 | **0.47** | -0.10 |
| 64 | 5320 | Left | Tilt | Note2 | 12.48 | 13.00 | 0.152 | **0.17** | 0.663 | **0.75** | -0.07 |
| 64 | 5320 | Right | Cheek | Note2 | 12.48 | 13.00 | 0.079 | **0.09** | 0.241 | **0.27** | -0.10 |
| 64 | 5320 | Right | Tilt | Note2 | 12.48 | 13.00 | 0.105 | **0.12** | 0.343 | **0.39** | 0.17 |
| 136 | 5680 | Left | Cheek | Note2 | 12.89 | 13.00 | 0.078 | **0.08** | 0.325 | **0.33** | -0.10 |
| 136 | 5680 | Left | Tilt | Note2 | 12.89 | 13.00 | 0.111 | **0.11** | 0.501 | **0.51** | 0.05 |
| 136 | 5680 | Right | Cheek | Note2 | 12.89 | 13.00 | 0.069 | **0.07** | 0.201 | **0.21** | -0.10 |
| 136 | 5680 | Right | Tilt | Note2 | 12.89 | 13.00 | 0.074 | **0.08** | 0.233 | **0.24** | -0.02 |
| 165 | 5825 | Left | Cheek | Note2 | 12.91 | 13.00 | 0.058 | **0.06** | 0.258 | **0.26** | 0.10 |
| 165 | 5825 | Left | Tilt | Note2 | 12.91 | 13.00 | 0.073 | **0.07** | 0.335 | **0.34** | 0.12 |
| 165 | 5825 | Right | Cheek | Note2 | 12.91 | 13.00 | 0.045 | **0.05** | 0.129 | **0.13** | -0.08 |
| 165 | 5825 | Right | Tilt | Note2 | 12.91 | 13.00 | 0.062 | **0.06** | 0.178 | **0.18** | 0.15 |

Note1: The results are for Wifi transmit standalone.

Note2: The results are for Wifi transmit with WWAN.

**Table 14.4-15: SAR Values (WLAN 5G – Body worn)**

| Frequency | | Test Position | Figure No./Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Power Drift (dB) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ch. | MHz | | | | | | | | | |
| 60 | 5300 | Front | / | 19.68 | 20.50 | 0.099 | **0.12** | 0.264 | **0.32** | 0.06 |
| 60 | 5300 | Rear | / | 19.68 | 20.50 | 0.100 | **0.12** | 0.267 | **0.32** | 0.17 |
| 136 | 5680 | Front | / | 20.33 | 21.00 | 0.097 | **0.11** | 0.248 | **0.29** | -0.11 |
| 136 | 5680 | Rear | / | 20.33 | 21.00 | 0.059 | **0.07** | 0.164 | **0.19** | -0.10 |
| 165 | 5825 | Front | / | 20.35 | 21.00 | 0.065 | **0.08** | 0.183 | **0.21** | -0.19 |
| 165 | 5825 | Rear | Fig.69 | 20.35 | 21.00 | 0.122 | **0.14** | 0.348 | **0.40** | 0.03 |

Note1: The distance between the EUT and the phantom bottom is 15mm.

**Table 14.4-16: SAR Values (WLAN 5G – Hotspot)**

| Frequency | | Test Position | Figure No./Note | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Power Drift (dB) |
|---|---|---|---|---|---|---|---|---|---|---|
| Ch. | MHz | | | | | | | | | |
| 60 | 5300 | Front | / | 14.83 | 15.00 | 0.053 | **0.06** | 0.150 | **0.16** | 0.11 |
| 60 | 5300 | Rear | / | 14.83 | 15.00 | 0.072 | **0.07** | 0.220 | **0.23** | 0.12 |
| 60 | 5300 | Right | / | 14.83 | 15.00 | 0.012 | **0.01** | 0.046 | **0.05** | -0.09 |
| 60 | 5300 | Top | Fig.70 | 14.83 | 15.00 | 0.122 | **0.13** | 0.384 | **0.40** | -0.04 |
| 136 | 5680 | Front | / | 15.68 | 16.00 | 0.036 | **0.04** | 0.110 | **0.12** | -0.19 |
| 136 | 5680 | Rear | / | 15.68 | 16.00 | 0.040 | **0.04** | 0.158 | **0.17** | 0.09 |
| 136 | 5680 | Right | / | 15.68 | 16.00 | 0.014 | **0.02** | 0.042 | **0.05** | 0.13 |
| 136 | 5680 | Top | / | 15.68 | 16.00 | 0.059 | **0.06** | 0.182 | **0.20** | -0.10 |
| 165 | 5825 | Front | / | 15.77 | 16.00 | 0.024 | **0.03** | 0.064 | **0.07** | -0.02 |
| 165 | 5825 | Rear | / | 15.77 | 16.00 | 0.054 | **0.06** | 0.177 | **0.19** | 0.12 |
| 165 | 5825 | Right | / | 15.77 | 16.00 | 0.017 | **0.02** | 0.039 | **0.04** | -0.09 |
| 165 | 5825 | Top | / | 15.77 | 16.00 | 0.029 | **0.03** | 0.089 | **0.09** | -0.18 |

Note1: The distance between the EUT and the phantom bottom is 10mm.

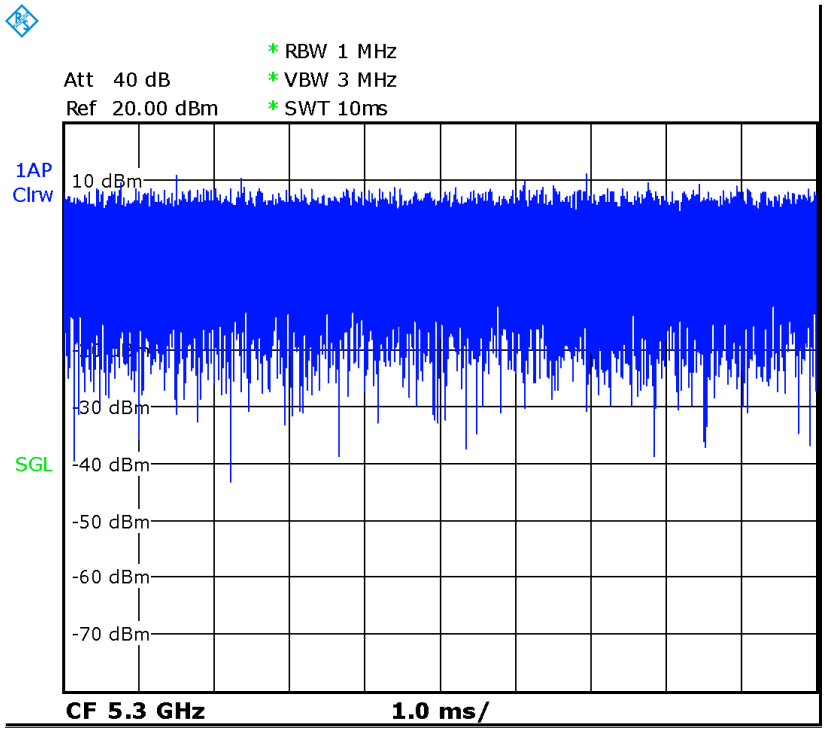
According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit. The scaled reported SAR is presented as below.

**Table 14.4-16: SAR Values (WLAN 5G - Head) (Scaled Reported SAR)**

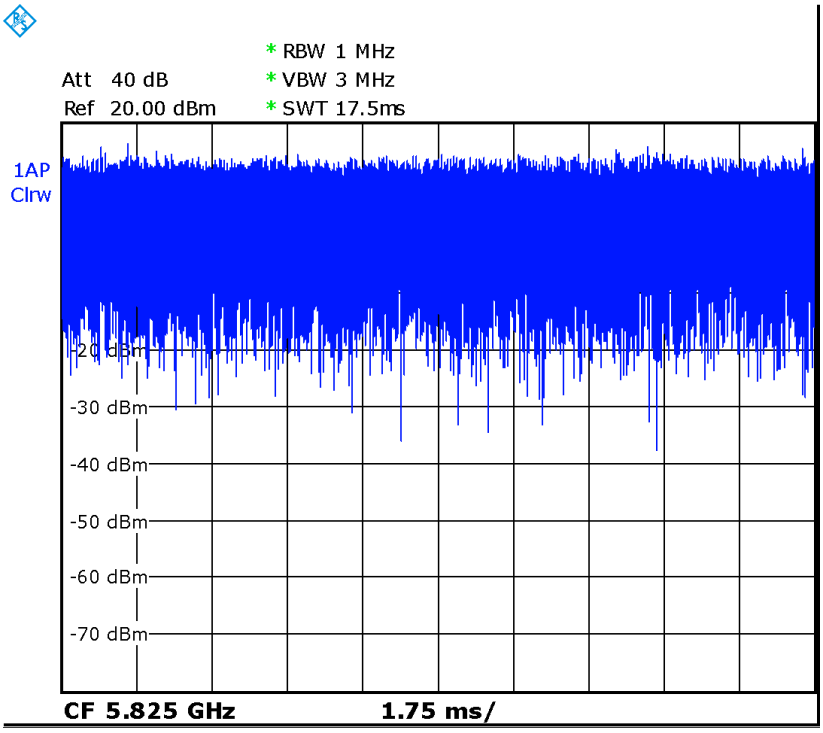
| Frequency | | Side | Test Position | Actual duty factor | maximum duty factor | Reported SAR (1g) (W/kg) | Scaled reported SAR (1g) (W/kg) |
|---|---|---|---|---|---|---|---|
| Ch. | MHz | | | | | | |
| 60 | 5300 | Left | Tilt | 100% | 100% | **1.08** | **1.08** |

**Table 14.4-17: SAR Values (WLAN 5G - Body) (Scaled Reported SAR)**

| Frequency | | Test Position | D (mm) | Actual duty factor | maximum duty factor | Reported SAR (1g) (W/kg) | Scaled reported SAR (1g) (W/kg) |
|---|---|---|---|---|---|---|---|
| Ch. | MHz | | | | | | |
| 165 | 5825 | Rear | 15 | 100% | 100% | **0.40** | **0.40** |
| 60 | 5300 | Top | 10 | 100% | 100% | **0.40** | **0.40** |




**Picture 14.4-1 The plot of duty factor for CH.60**




**Picture 14.4-2 The plot of duty factor for CH.165**

## 14.5 SAR results for 10-g extremity SAR

According to the KDB648474 D04, 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.

For this device, SAR is not required for 10-g extremity SAR because the scaled SAR is ⩽ 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

| Mode | CH | Freq | Test Position | Original SAR (W/kg) | First Repeated SAR(W/kg) | The Ratio |
|---|---|---|---|---|---|---|
| Wi-Fi 2.4G 802.11b | 6 | 2437MHz | Left Cheek | 0.896 | 0.878 | 1.02 |
| Wi-Fi 2.4G 802.11b | 6 | 2437MHz | Left Tilt | 0.935 | 0.921 | 1.02 |
| Wi-Fi 5G 802.11n-20M | 60 | 5300MHz | Left Cheek | 0.844 | 0.831 | 1.02 |
| Wi-Fi 5G 802.11n-20M | 60 | 5300MHz | Left Tilt | 1.04 | 0.989 | 1.05 |
| Wi-Fi 5G 802.11n-20M | 60 | 5300MHz | Right Tilt | 0.816 | 0.789 | 1.03 |

# 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 | E5071C | MY46110673 | January 14, 2021 | One year |
| 02 | Power meter | NRP2 | 101919 | June 16, 2020 | One year |
| 03 | Power sensor | NRP-Z91 | 101547 | | |
| 04 | Signal Generator | E4438C | MY49071430 | February 1, 2021 | One Year |
| 05 | Amplifier | 60S1G4 | 0331848 | No Calibration Requested | |
| 06 | BTS | CMW500 | 159889 | January 13, 2021 | One year |
| 07 | E-field Probe | SPEAG EX3DV4 | 7548 | June 16, 2020 | One year |
| 08 | DAE | SPEAG DAE4 | 1331 | September 2, 2020 | One year |
| 09 | Dipole Validation Kit | SPEAG D750V3 | 1017 | July 24,2020 | One year |
| 10 | Dipole Validation Kit | SPEAG D835V2 | 4d069 | July 24,,2020 | One year |
| 11 | Dipole Validation Kit | SPEAG D1750V2 | 1003 | July 24, 2020 | One year |
| 12 | Dipole Validation Kit | SPEAG D1900V2 | 5d101 | July 28,2020 | One year |
| 13 | Dipole Validation Kit | SPEAG D2450V2 | 853 | July 21,2020 | One year |
| 14 | Dipole Validation Kit | SPEAG D2600V2 | 1012 | July 21,2020 | One year |
| 15 | Dipole Validation Kit | SPEAG D5GHzV2 | 1060 | July 27,2020 | One year |

***END OF REPORT BODY***

# ANNEX A Graph Results

**GSM850_CH190 Right Cheek**
Date: 6/4/2021
Electronics: DAE4 Sn1331
Medium: head 835 MHz
Medium parameters used: f = 836.6 MHz; $\sigma$ = 0.891 mho/m; $\varepsilon r$ = 42.29; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: GSM850 836.6 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.228 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.204 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.259 W/kg
**SAR(1 g) = 0.189 W/kg; SAR(10 g) = 0.145 W/kg**
Maximum value of SAR (measured) = 0.235 W/kg

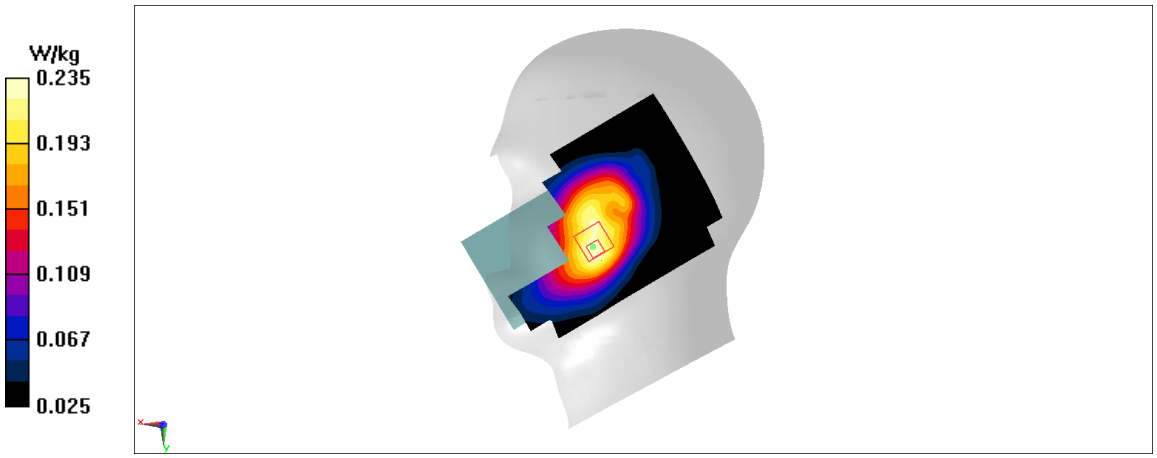



**Fig A.1**

**GSM850_CH190 Rear 10mm**
Date: 6/4/2021
Electronics: DAE4 Sn1331
Medium: head 835 MHz
Medium parameters used: f = 836.6 MHz; $\sigma$ = 0.891 mho/m; $\varepsilon r$ = 42.29; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: GSM850 836.6 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.931 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 22.75 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 1.14 W/kg
**SAR(1 g) = 0.6 W/kg; SAR(10 g) = 0.341 W/kg**
Maximum value of SAR (measured) = 0.9 W/kg

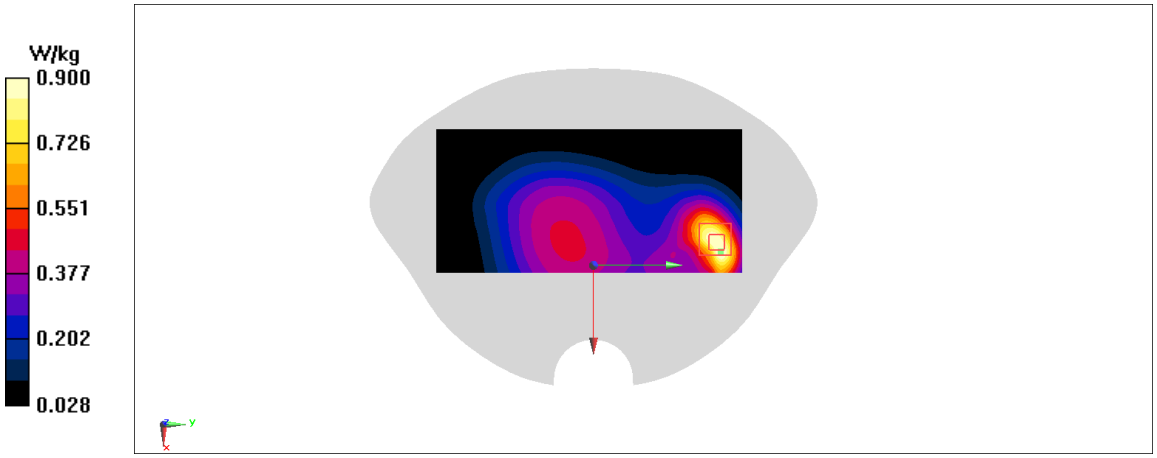



**Fig A.2**

**PCS1900_CH512 Left Cheek**
Date: 6/7/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1850.2 MHz; $\sigma$ = 1.37 mho/m; $\varepsilon r$ = 40.23; $\rho$ = 1000 kg/$m^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: PCS1900 1850.2 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.228 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.421 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.257 W/kg
**SAR(1 g) = 0.174 W/kg; SAR(10 g) = 0.115 W/kg**
Maximum value of SAR (measured) = 0.228 W/kg

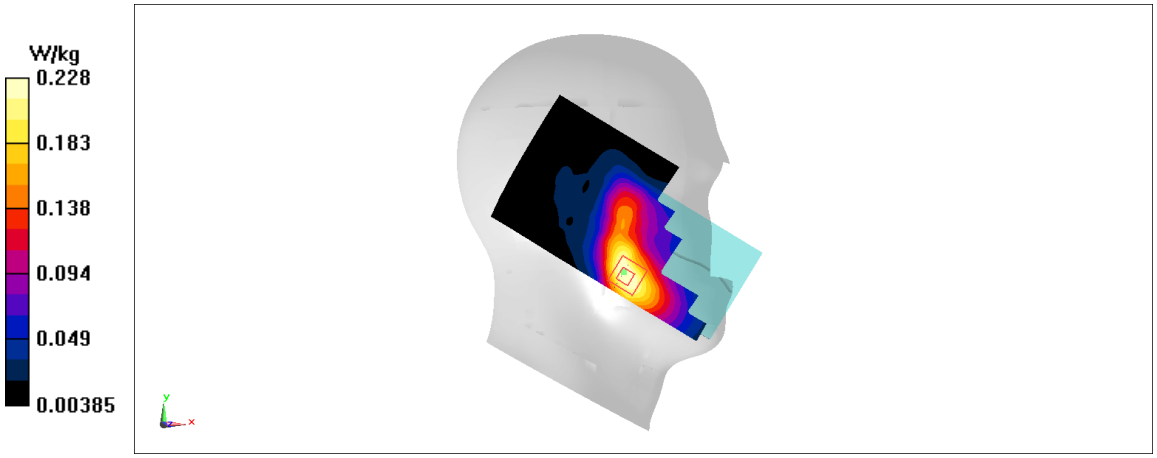



**Fig A.3**

**PCS1900_CH512 Rear 15mm_Body worn**
Date: 6/7/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1850.2 MHz; $\sigma$ = 1.37 mho/m; $\varepsilon r$ = 40.23; $\rho$ = 1000 kg/$m^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: PCS1900 1850.2 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.512 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.51 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 0.58 W/kg
**SAR(1 g) = 0.333 W/kg; SAR(10 g) = 0.197 W/kg**
Maximum value of SAR (measured) = 0.485 W/kg

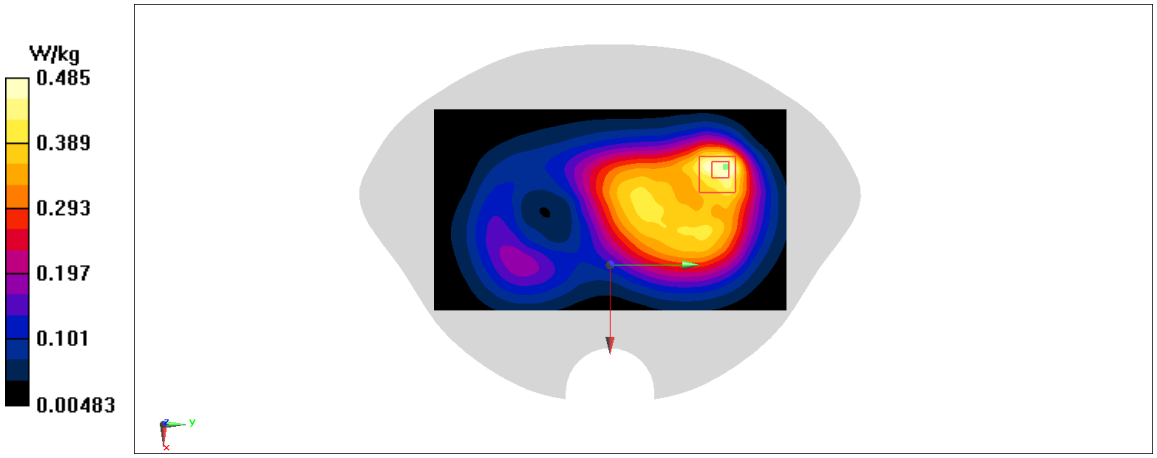



**Fig A.4**

**PCS1900_CH512 Rear 10mm_Hotspot**
Date: 6/7/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1850.2 MHz; $\sigma$ = 1.37 mho/m; $\varepsilon r$ = 40.23; $\rho$ = 1000 kg/$m^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: PCS1900 1850.2 MHz Duty Cycle: 1:2
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.767 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.96 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.884 W/kg
**SAR(1 g) = 0.477 W/kg; SAR(10 g) = 0.27 W/kg**
Maximum value of SAR (measured) = 0.718 W/kg

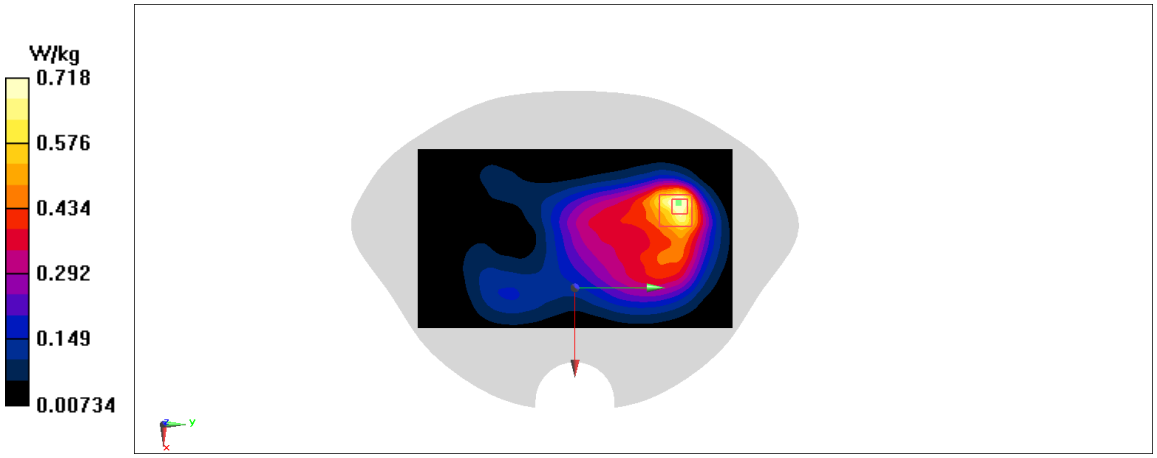



**Fig A.5**

**WCDMA1900-BII_CH9262 Left Cheek**
Date: 6/7/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1852.4 MHz; $\sigma$ = 1.372 mho/m; $\varepsilon r$ = 40.23; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: WCDMA1900-BII 1852.4 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.444 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.472 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.492 W/kg
**SAR(1 g) = 0.339 W/kg; SAR(10 g) = 0.223 W/kg**
Maximum value of SAR (measured) = 0.44 W/kg

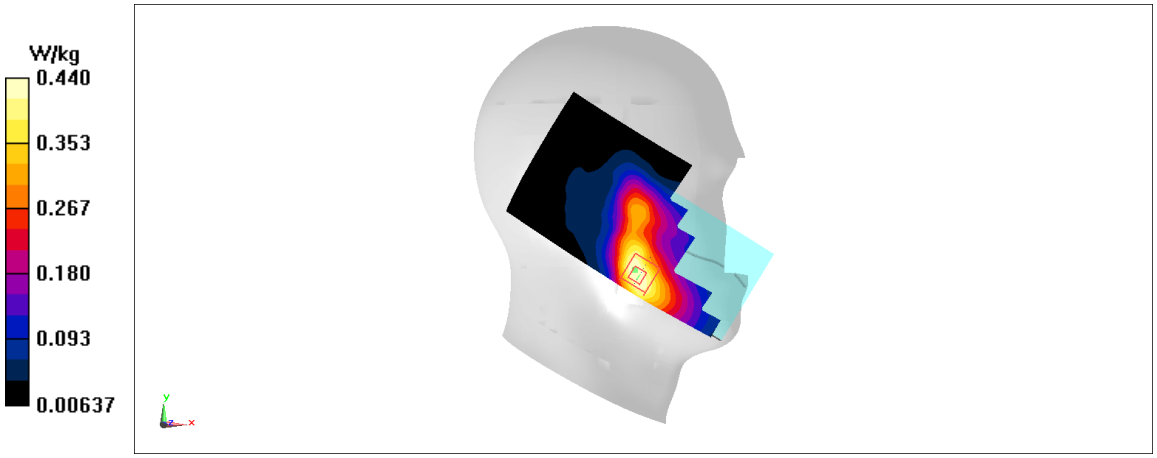



**Fig A.6**

**WCDMA1900-BII_CH9262 Front 15mm**
Date: 6/7/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1852.4 MHz; $\sigma$ = 1.372 mho/m; $\varepsilon r$ = 40.23; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: WCDMA1900-BII 1852.4 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.405 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.64 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.465 W/kg
**SAR(1 g) = 0.304 W/kg; SAR(10 g) = 0.203 W/kg**
Maximum value of SAR (measured) = 0.406 W/kg

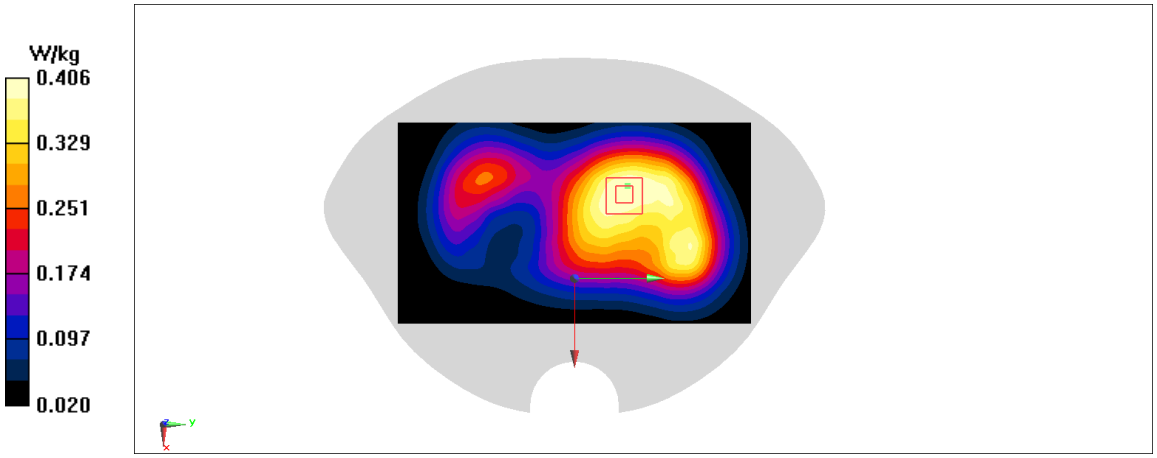



**Fig A.7**

**WCDMA1900-BII_CH9262 Rear 10mm_Hotspot**
Date: 6/7/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1852.4 MHz; $\sigma$ = 1.372 mho/m; $\varepsilon r$ = 40.23; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: WCDMA1900-BII 1852.4 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.443 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.226 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 0.521 W/kg
**SAR(1 g) = 0.286 W/kg; SAR(10 g) = 0.16 W/kg**
Maximum value of SAR (measured) = 0.434 W/kg

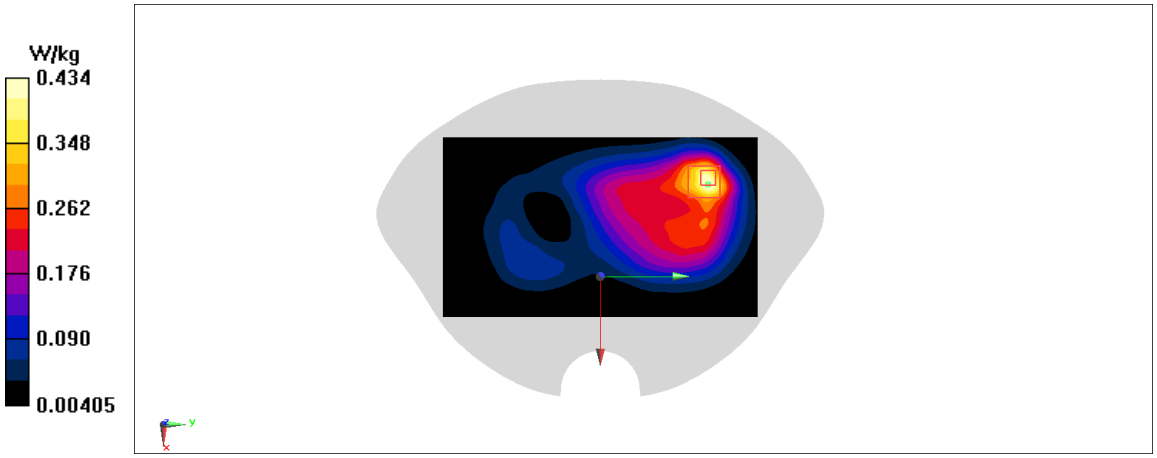



**Fig A.8**

**WCDMA1700-BIV_CH1513 Left Cheek**
Date: 6/5/2021
Electronics: DAE4 Sn1331
Medium: head 1750 MHz
Medium parameters used: f = 1752.6 MHz; $\sigma$ = 1.361 mho/m; $\varepsilon r$ = 40.85; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: WCDMA1700-BIV 1752.6 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(8.24,8.24,8.24)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.466 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.932 V/m; Power Drift = 0 dB
Peak SAR (extrapolated) = 0.513 W/kg
**SAR(1 g) = 0.36 W/kg; SAR(10 g) = 0.242 W/kg**
Maximum value of SAR (measured) = 0.461 W/kg

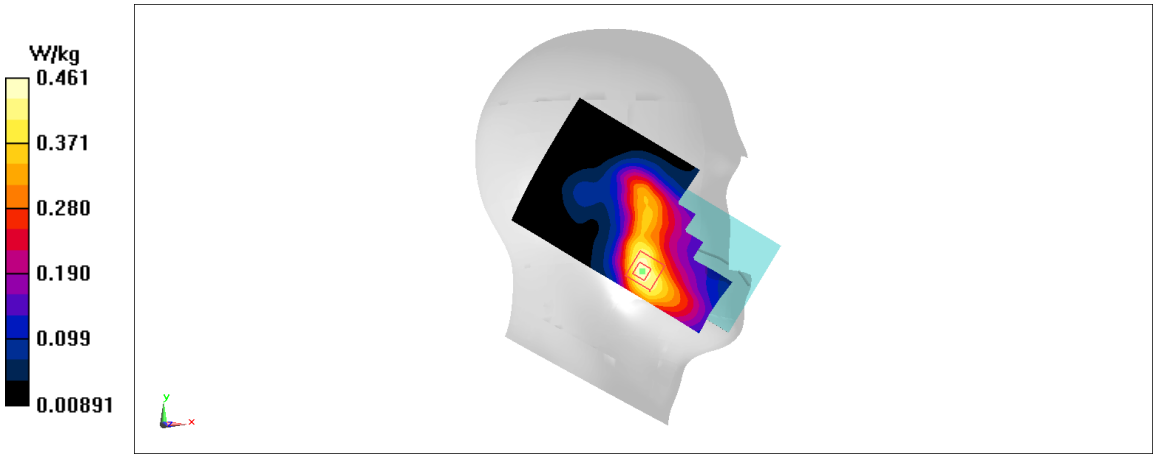



**Fig A.9**

**WCDMA1700-BIV_CH1412 Rear 15mm_Body worn**
Date: 6/5/2021
Electronics: DAE4 Sn1331
Medium: head 1750 MHz
Medium parameters used: f = 1732.5 MHz; $\sigma$ = 1.341 mho/m; $\varepsilon r$ = 40.87; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: WCDMA1700-BIV 1732.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(8.24,8.24,8.24)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.563 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.09 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 0.638 W/kg
**SAR(1 g) = 0.417 W/kg; SAR(10 g) = 0.278 W/kg**
Maximum value of SAR (measured) = 0.559 W/kg

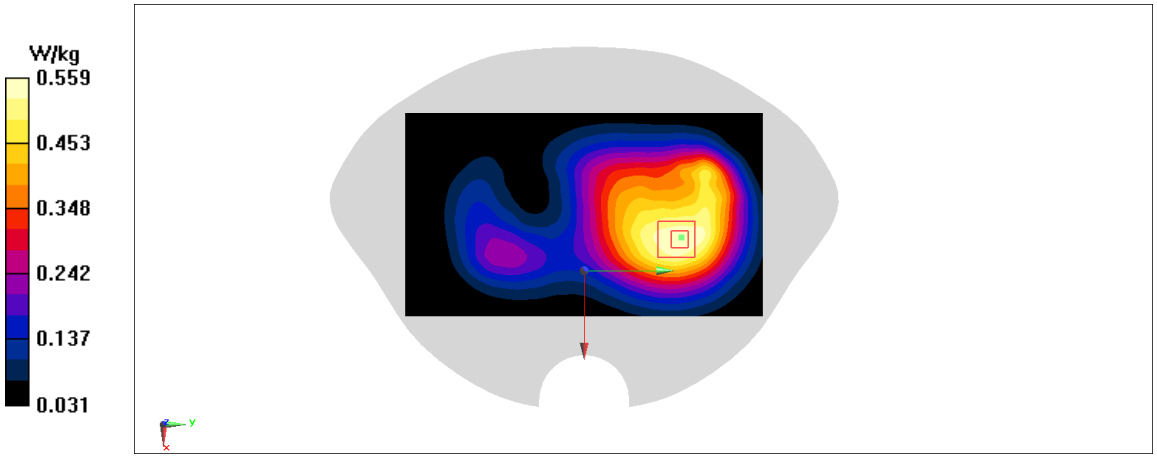



**Fig A.10**

**WCDMA1700-BIV_CH1412 Rear 10mm_Hotspot**
Date: 6/5/2021
Electronics: DAE4 Sn1331
Medium: head 1750 MHz
Medium parameters used: f = 1732.5 MHz; $\sigma$ = 1.341 mho/m; $\varepsilon r$ = 40.87; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: WCDMA1700-BIV 1732.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(8.24,8.24,8.24)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.437 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.632 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.493 W/kg
**SAR(1 g) = 0.277 W/kg; SAR(10 g) = 0.166 W/kg**
Maximum value of SAR (measured) = 0.405 W/kg

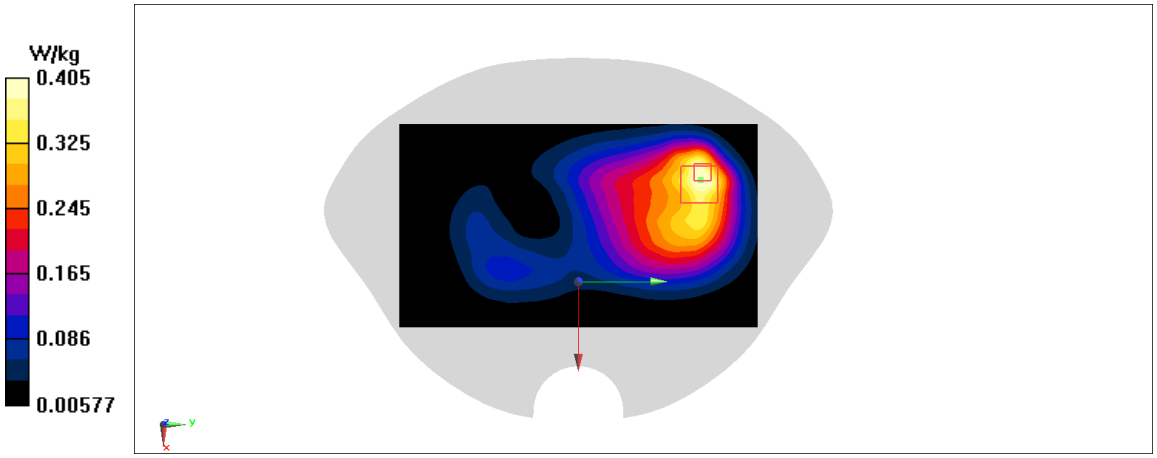



**Fig A.11**

**WCDMA850-BV_CH4183 Right Cheek**
Date: 6/4/2021
Electronics: DAE4 Sn1331
Medium: head 835 MHz
Medium parameters used: f = 836.6 MHz; $\sigma$ = 0.891 mho/m; $\varepsilon r$ = 42.29; $\rho$ = 1000 kg/$m^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: WCDMA850-BV 836.6 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.281 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.517 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.341 W/kg
**SAR(1 g) = 0.234 W/kg; SAR(10 g) = 0.182 W/kg**
Maximum value of SAR (measured) = 0.312 W/kg

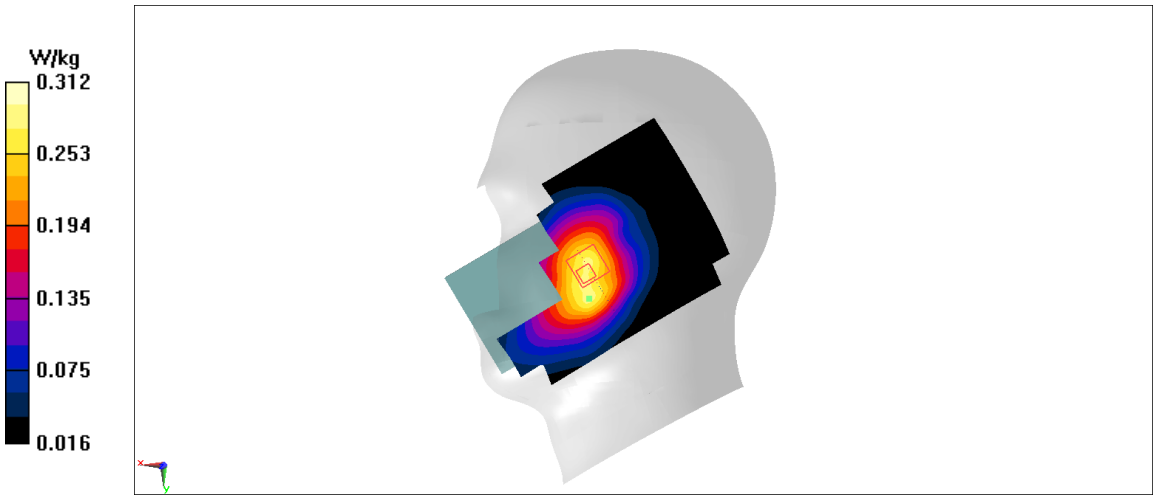



**Fig A.12**

**WCDMA850-BV_CH4183 Rear 10mm**
Date: 6/4/2021
Electronics: DAE4 Sn1331
Medium: head 835 MHz
Medium parameters used: f = 836.6 MHz; $\sigma$ = 0.891 mho/m; $\varepsilon r$ = 42.29; $\rho$ = 1000 kg/$m^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: WCDMA850-BV 836.6 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.572 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 18.71 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.763 W/kg
**SAR(1 g) = 0.409 W/kg; SAR(10 g) = 0.235 W/kg**
Maximum value of SAR (measured) = 0.615 W/kg

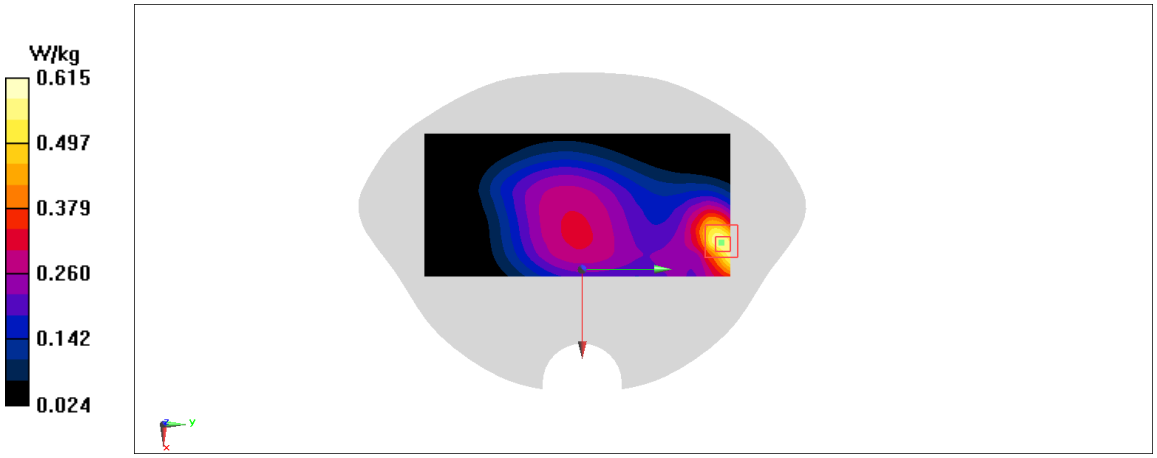



**Fig A.13**

**LTE1900-FDD2 ANT1_CH19100 Left Cheek**
Date: 6/7/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1900 MHz; $\sigma$ = 1.418 mho/m; $\varepsilon r$ = 40.17; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE1900-FDD2 1900 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.449 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.096 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.505 W/kg
**SAR(1 g) = 0.341 W/kg; SAR(10 g) = 0.221 W/kg**
Maximum value of SAR (measured) = 0.449 W/kg

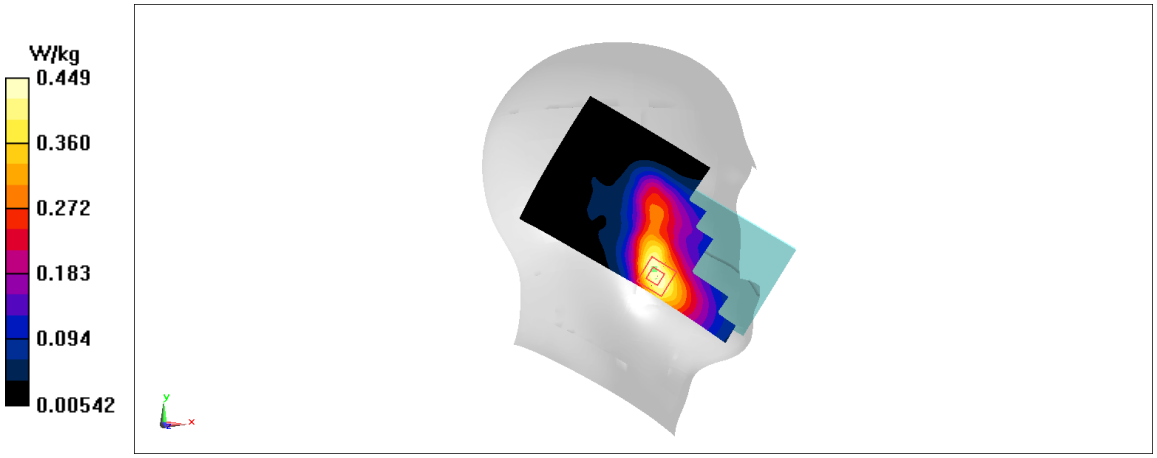



**Fig A.14**

**LTE1900-FDD2 ANT1_CH19100 Rear 15mm_Body worn**
Date: 6/7/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1900 MHz; $\sigma$ = 1.418 mho/m; $\varepsilon r$ = 40.17; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE1900-FDD2 1900 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.510W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.69V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 0.589W/kg
**SAR(1 g) = 0.339 W/kg; SAR(10 g) = 0.201 W/kg**
Maximum value of SAR (measured) = 0.495W/kg

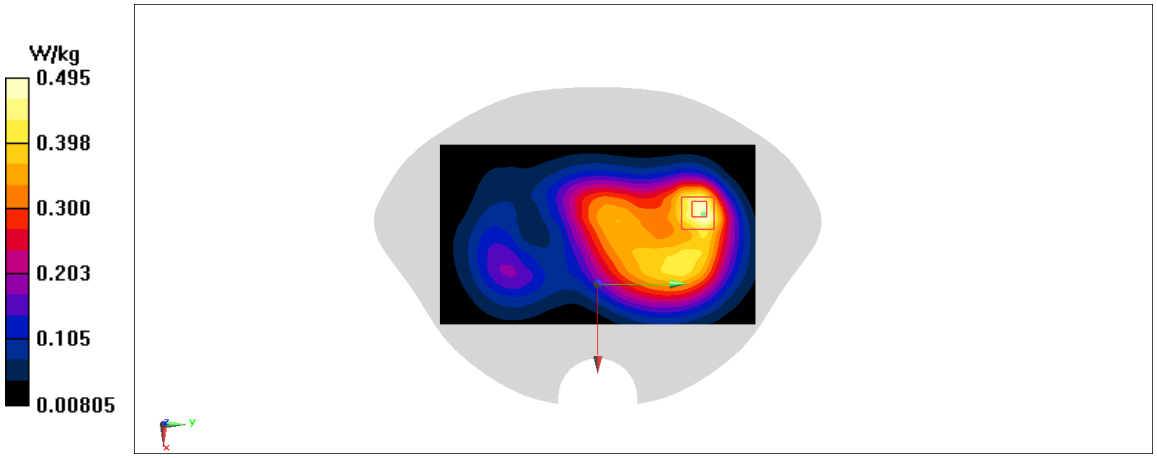



**Fig A.15**

**LTE1900-FDD2 ANT1_CH18700 Rear 10mm_Hotspot**
Date: 6/7/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1860 MHz; $\sigma$ = 1.38 mho/m; $\varepsilon r$ = 40.22; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE1900-FDD2 1860 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.544 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.07 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.63 W/kg
**SAR(1 g) = 0.349 W/kg; SAR(10 g) = 0.196 W/kg**
Maximum value of SAR (measured) = 0.528 W/kg

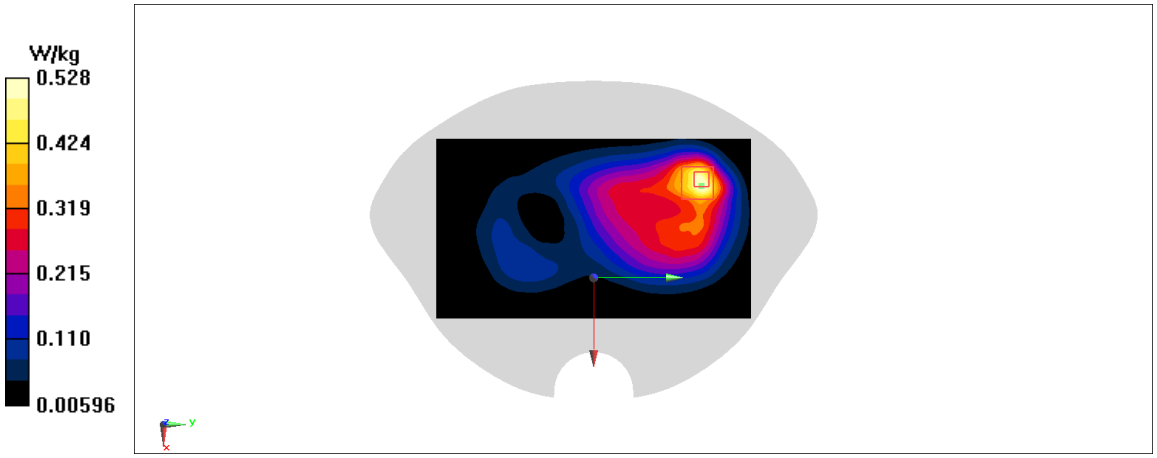



**Fig A.16**

**LTE1900-FDD2 ANT4_CH18700 Right Tilt**
Date: 6/7/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1860 MHz; $\sigma$ = 1.38 mho/m; $\varepsilon r$ = 40.22; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE1900-FDD2 1860 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.03 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.54 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 1.28 W/kg
**SAR(1 g) = 0.56 W/kg; SAR(10 g) = 0.252 W/kg**
Maximum value of SAR (measured) = 0.943 W/kg

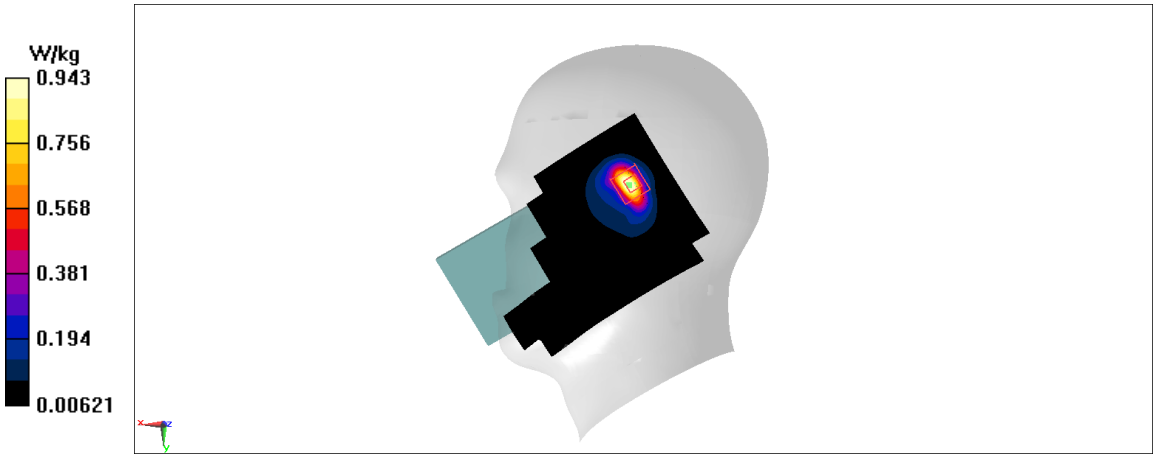



**Fig A.17**

**LTE1900-FDD2 ANT4_CH18700 Rear 15mm_Body worn**
Date: 6/7/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1860 MHz; $\sigma$ = 1.38 mho/m; $\varepsilon r$ = 40.22; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE1900-FDD2 1860 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.48W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.21V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.568 W/kg
**SAR(1 g) = 0.325 W/kg; SAR(10 g) = 0.186 W/kg**
Maximum value of SAR (measured) = 0.474 W/kg

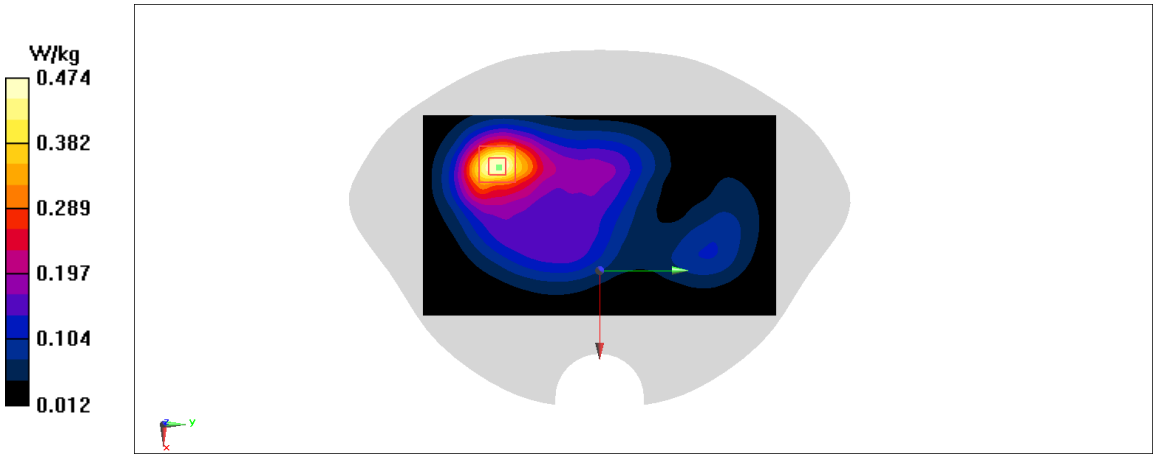



**Fig A.18**

**LTE1900-FDD2 ANT4_CH18700 Rear 10mm_Hotspot**
Date: 6/7/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1860 MHz; $\sigma$ = 1.38 mho/m; $\varepsilon r$ = 40.22; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE1900-FDD2 1860 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) =0.979W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.12 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) =1.18W/kg
**SAR(1 g) = 0.639 W/kg; SAR(10 g) = 0.346 W/kg**
Maximum value of SAR (measured) = 0.972W/kg

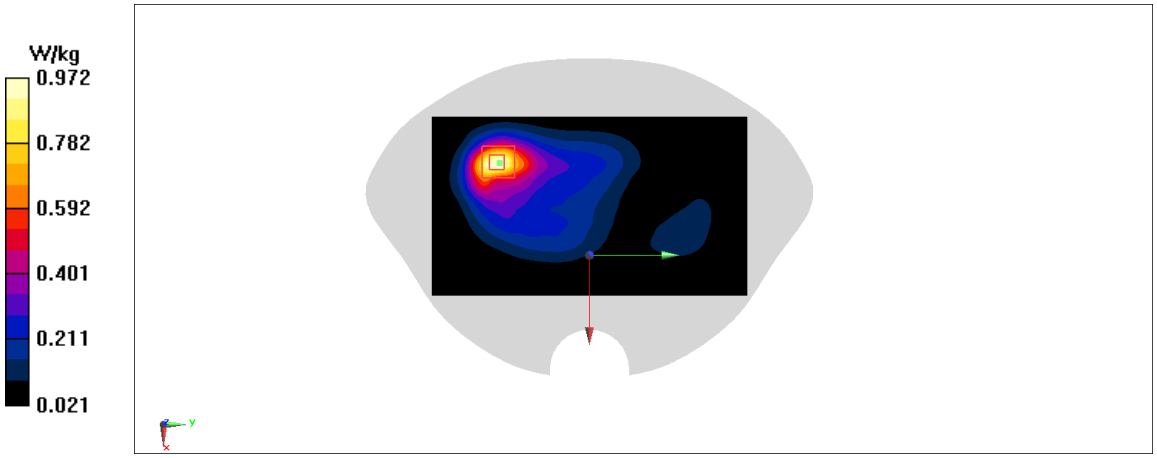



**Fig A.19**

**LTE2500-FDD7_CH21350 Left Cheek**
Date: 6/10/2021
Electronics: DAE4 Sn1331
Medium: head 2600 MHz
Medium parameters used: f = 2560 MHz; $\sigma$ = 1.947 mho/m; $\varepsilon r$ = 39.01; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE2500-FDD7 2560 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.17,7.17,7.17)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.306 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.524 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.393 W/kg
**SAR(1 g) = 0.229 W/kg; SAR(10 g) = 0.128 W/kg**
Maximum value of SAR (measured) = 0.333 W/kg

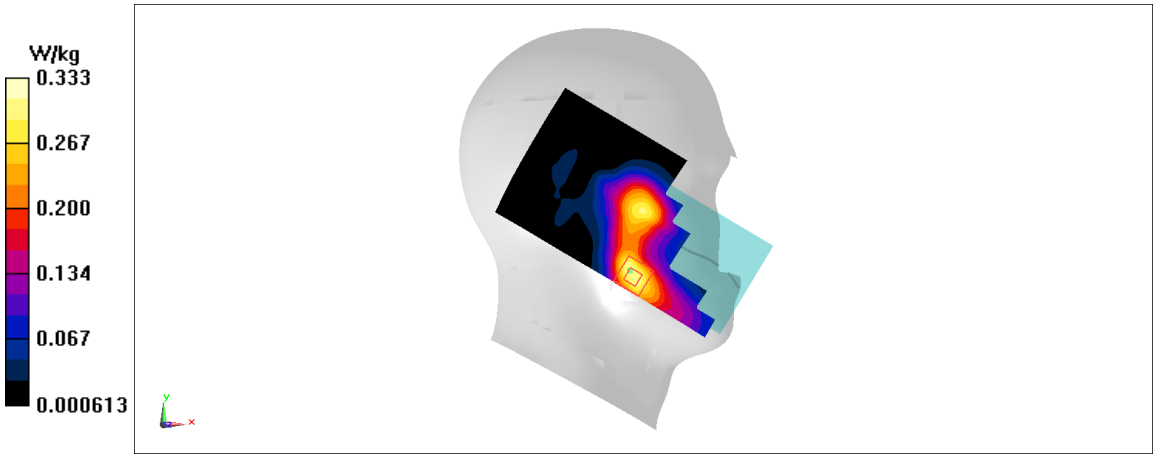



**Fig A.20**

**LTE2500-FDD7_CH21350 Rear 15mm_Body worn**
Date: 6/10/2021
Electronics: DAE4 Sn1331
Medium: head 2600 MHz
Medium parameters used: f = 2560 MHz; $\sigma$ = 1.947 mho/m; $\varepsilon r$ = 39.01; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE2500-FDD7 2560 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.17,7.17,7.17)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.519W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value =6.513V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.635W/kg
**SAR(1 g) = 0.342 W/kg; SAR(10 g) = 0.187 W/kg**
Maximum value of SAR (measured) =0.520W/kg

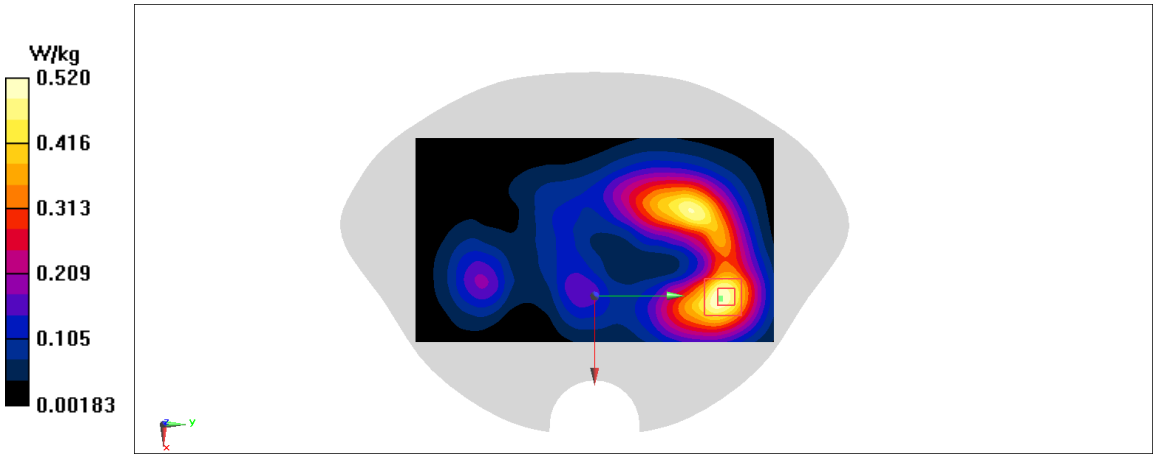



**Fig A.21**

**LTE2500-FDD7_CH21100 Bottom 10mm_Hotspot**
Date: 6/10/2021
Electronics: DAE4 Sn1331
Medium: head 2600 MHz
Medium parameters used: f = 2535 MHz; $\sigma$ = 1.923 mho/m; $\varepsilon r$ = 39.04; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE2500-FDD7 2535 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.17,7.17,7.17)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.443 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.089 V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 0.527 W/kg
**SAR(1 g) = 0.272 W/kg; SAR(10 g) = 0.13 W/kg**
Maximum value of SAR (measured) = 0.436 W/kg

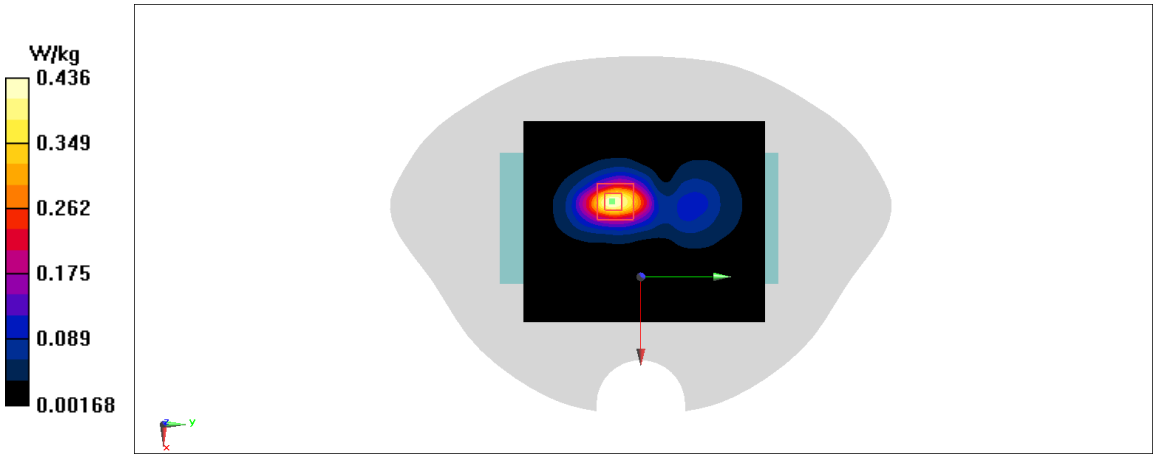



**Fig A.22**

**LTE700-FDD12_CH23060 Right Cheek**
Date: 6/2/2021
Electronics: DAE4 Sn1331
Medium: head 750 MHz
Medium parameters used: f = 704 MHz; $\sigma$ = 0.837 mho/m; $\varepsilon r$ = 42.28; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE700-FDD12 704 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.144 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.476 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.167 W/kg
**SAR(1 g) = 0.127 W/kg; SAR(10 g) = 0.101 W/kg**
Maximum value of SAR (measured) = 0.151 W/kg

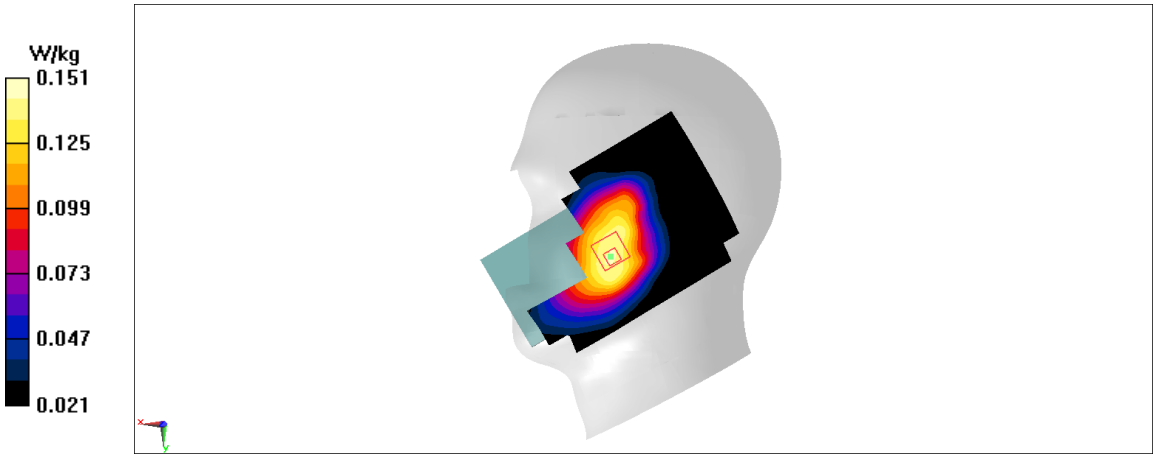



**Fig A.23**

**LTE700-FDD12_CH23060 Rear 10mm**
Date: 6/2/2021
Electronics: DAE4 Sn1331
Medium: head 750 MHz
Medium parameters used: f = 704 MHz; $\sigma$ = 0.837 mho/m; $\varepsilon r$ = 42.28; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE700-FDD12 704 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.369 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.11 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 0.495 W/kg
**SAR(1 g) = 0.252 W/kg; SAR(10 g) = 0.144 W/kg**
Maximum value of SAR (measured) = 0.396 W/kg

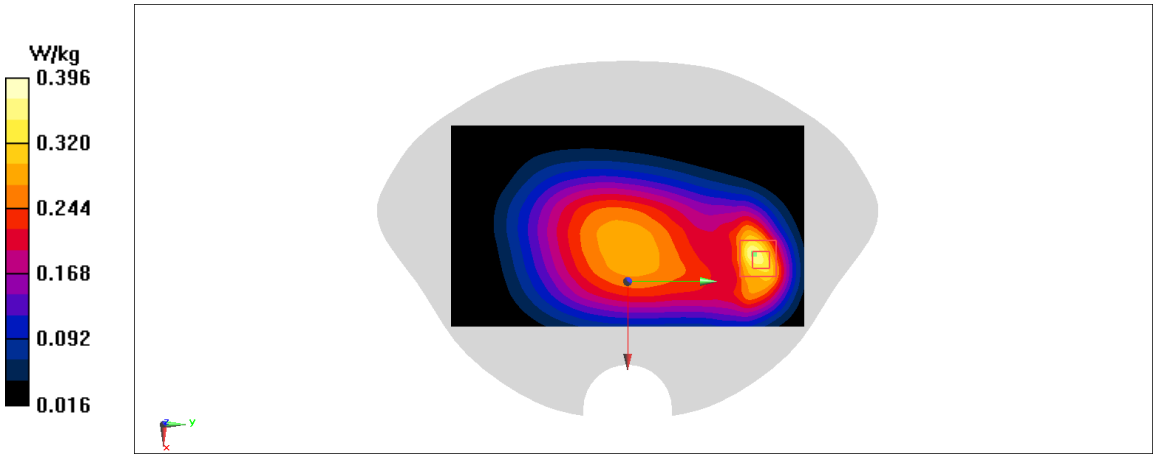



**Fig A.24**

**LTE750-FDD13_CH23230 Right Cheek**
Date: 6/2/2021
Electronics: DAE4 Sn1331
Medium: head 750 MHz
Medium parameters used: f = 782 MHz; $\sigma$ = 0.911 mho/m; $\varepsilon r$ = 42.18; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE750-FDD13 782 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.233 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.079 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 0.274 W/kg
**SAR(1 g) = 0.2 W/kg; SAR(10 g) = 0.155 W/kg**
Maximum value of SAR (measured) = 0.25 W/kg

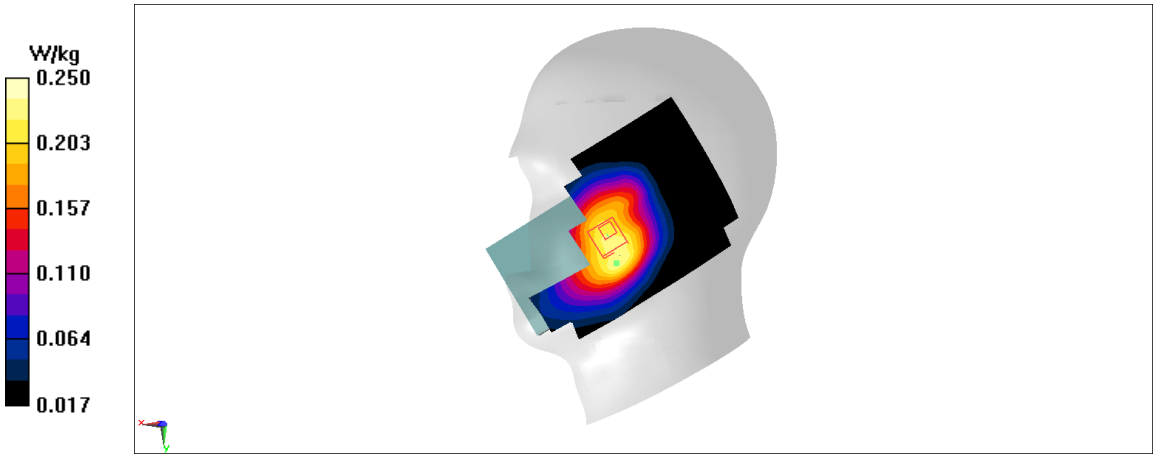



**Fig A.25**

**LTE750-FDD13_CH23230 Rear 10mm**
Date: 6/2/2021
Electronics: DAE4 Sn1331
Medium: head 750 MHz
Medium parameters used: f = 782 MHz; $\sigma$ = 0.911 mho/m; $\varepsilon r$ = 42.18; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE750-FDD13 782 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.51 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 19.91 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.688 W/kg
**SAR(1 g) = 0.353 W/kg; SAR(10 g) = 0.198 W/kg**
Maximum value of SAR (measured) = 0.555 W/kg

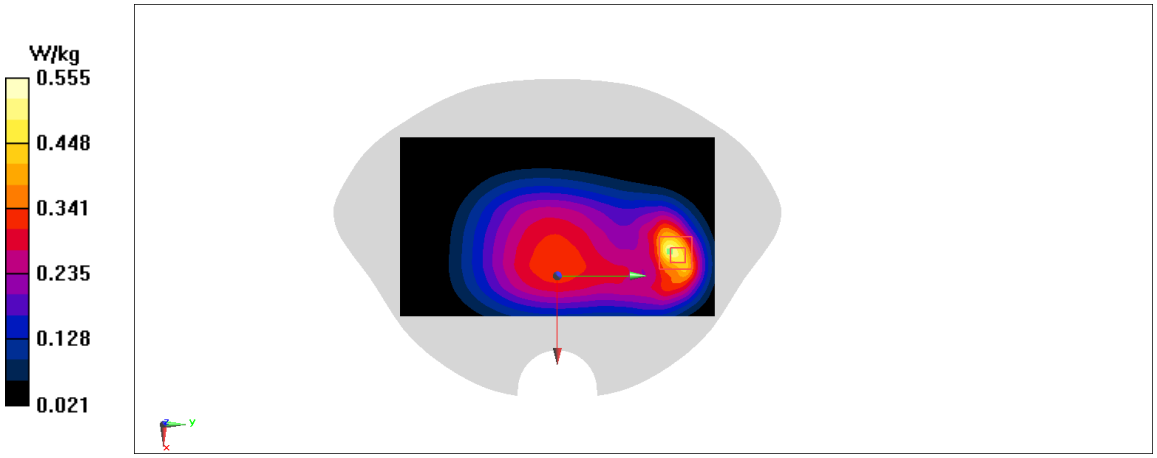



**Fig A.26**

**LTE1900-FDD25_CH26590 Left Cheek**
Date: 6/7/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1905 MHz; $\sigma$ = 1.423 mho/m; $\varepsilon r$ = 40.16; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE1900-FDD25 1905 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.457 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.892 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.522 W/kg
**SAR(1 g) = 0.35 W/kg; SAR(10 g) = 0.226 W/kg**
Maximum value of SAR (measured) = 0.464 W/kg

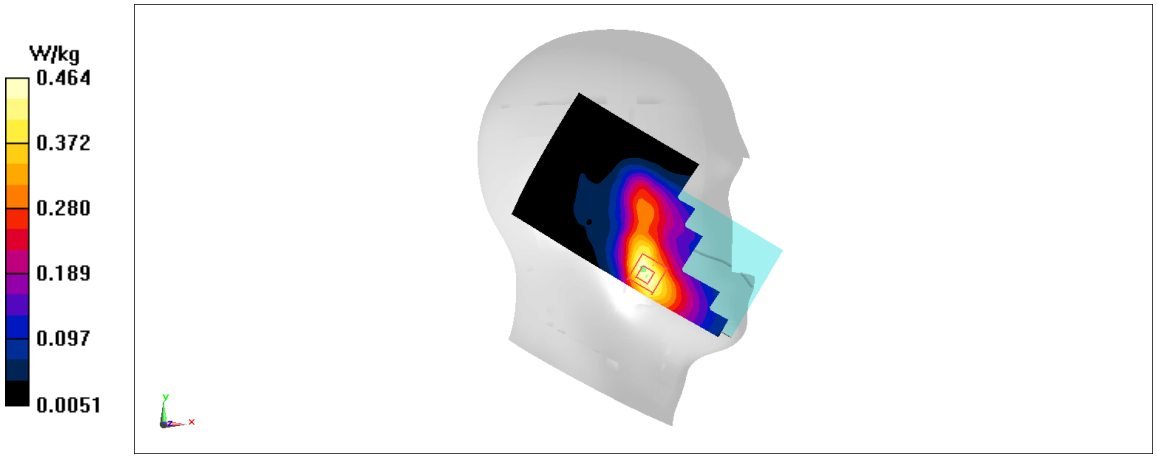



**Fig A.27**

**LTE1900-FDD25_CH26590 Rear 15mm_Body worn**
Date: 6/7/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1905 MHz; $\sigma$ = 1.423 mho/m; $\varepsilon r$ = 40.16; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE1900-FDD25 1905 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.518W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 14.35V/m; Power Drift = -0.1 dB
Peak SAR (extrapolated) = 0.599W/kg
**SAR(1 g) = 0.344 W/kg; SAR(10 g) = 0.204 W/kg**
Maximum value of SAR (measured) =0.503W/kg

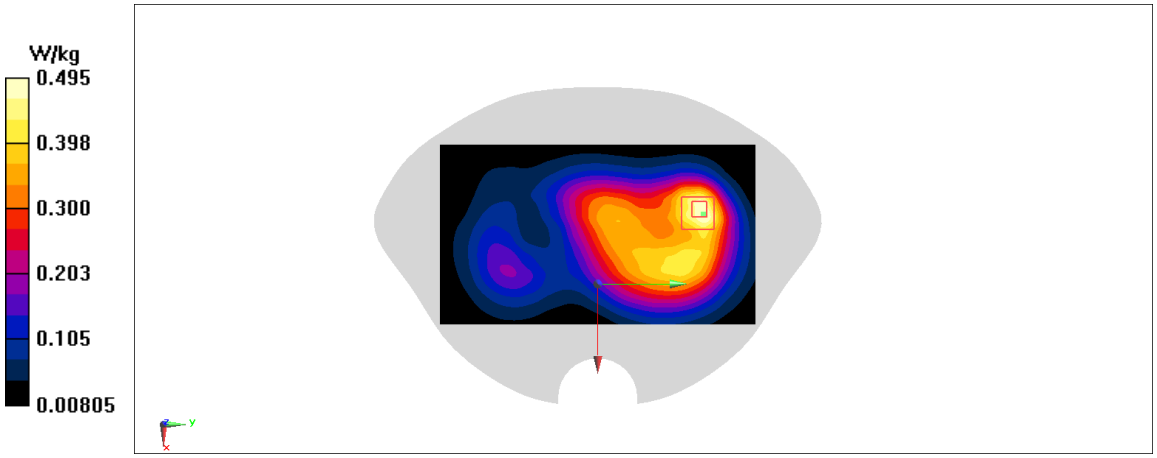



**Fig A.28**

**LTE1900-FDD25_CH26140 Rear 10mm_Hotspot**
Date: 6/7/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1860 MHz; $\sigma$ = 1.38 mho/m; $\varepsilon r$ = 40.22; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE1900-FDD25 1860 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.674 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.34 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.79 W/kg
**SAR(1 g) = 0.436 W/kg; SAR(10 g) = 0.245 W/kg**
Maximum value of SAR (measured) = 0.659 W/kg

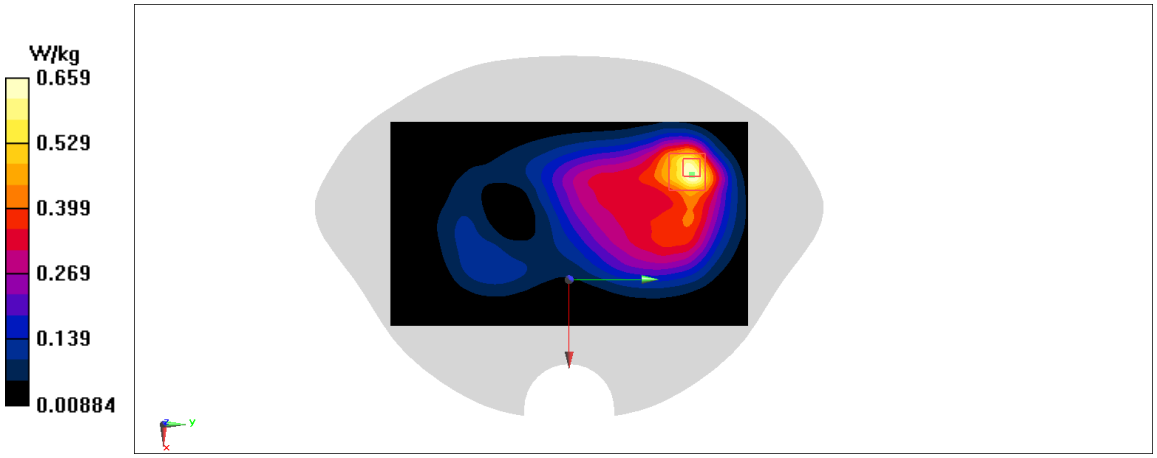



**Fig A.29**

**LTE850-FDD26_CH26965 Right Cheek**
Date: 6/4/2021
Electronics: DAE4 Sn1331
Medium: head 835 MHz
Medium parameters used: f = 841.5 MHz; $\sigma$ = 0.896 mho/m; $\varepsilon r$ = 42.28; $\rho$ = 1000 kg/$m^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE850-FDD26 841.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.274 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.776 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.3 W/kg
**SAR(1 g) = 0.222 W/kg; SAR(10 g) = 0.172 W/kg**
Maximum value of SAR (measured) = 0.272 W/kg

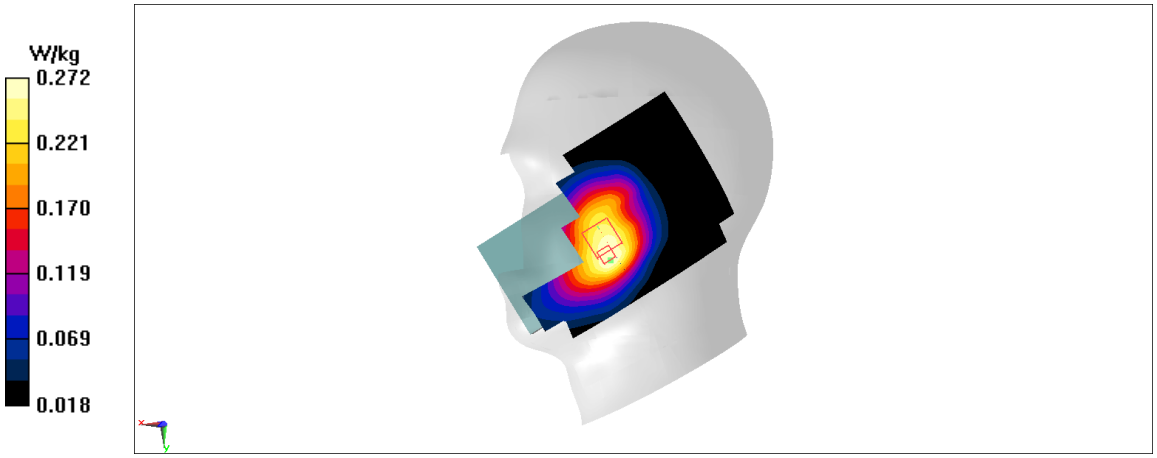



**Fig A.30**

**LTE850-FDD26_CH26965 Rear 10mm**
Date: 6/4/2021
Electronics: DAE4 Sn1331
Medium: head 835 MHz
Medium parameters used: f = 841.5 MHz; $\sigma$ = 0.896 mho/m; $\varepsilon r$ = 42.28; $\rho$ = 1000 kg/$m^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE850-FDD26 841.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.713 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.69 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 0.954 W/kg
**SAR(1 g) = 0.5 W/kg; SAR(10 g) = 0.279 W/kg**
Maximum value of SAR (measured) = 0.758 W/kg

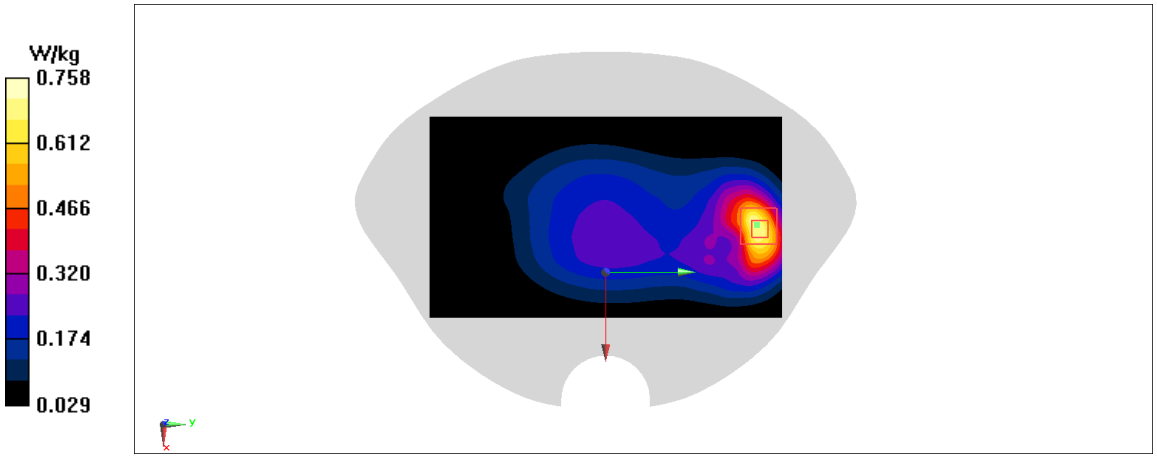



**Fig A.31**

**LTE2600-TDD38_CH38150 Left Cheek**
Date: 6/10/2021
Electronics: DAE4 Sn1331
Medium: head 2600 MHz
Medium parameters used: f = 2610 MHz; $\sigma$ = 1.995 mho/m; $\varepsilon r$ = 38.95; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE2600-TDD38 2610 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.17,7.17,7.17)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.202 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.465 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.249 W/kg
**SAR(1 g) = 0.141 W/kg; SAR(10 g) = 0.078 W/kg**
Maximum value of SAR (measured) = 0.206 W/kg

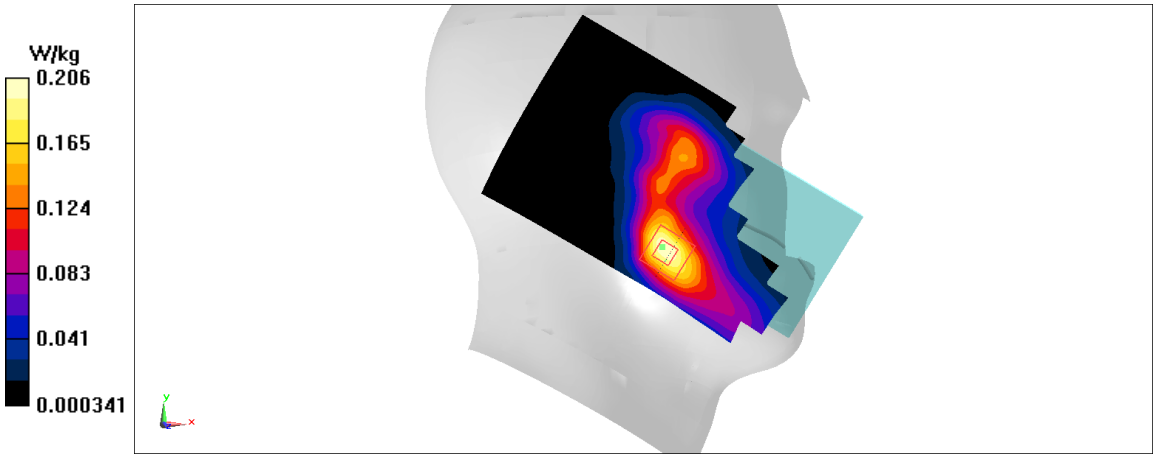



**Fig A.32**

**LTE2600-TDD38_CH38150 Rear 15mm_Body worn**
Date: 6/10/2021
Electronics: DAE4 Sn1331
Medium: head 2600 MHz
Medium parameters used: f = 2610 MHz; $\sigma$ = 1.995 mho/m; $\varepsilon r$ = 38.95; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE2600-TDD38 2610 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.17,7.17,7.17)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.413 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.01 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.505 W/kg
**SAR(1 g) = 0.266 W/kg; SAR(10 g) = 0.142 W/kg**
Maximum value of SAR (measured) = 0.408 W/kg

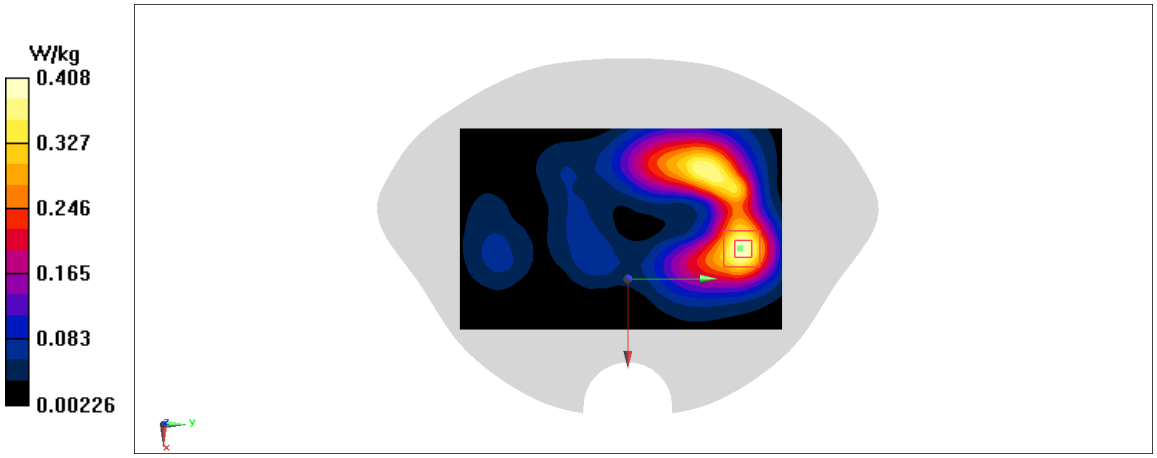



**Fig A.33**

**LTE2600-TDD38_CH37850 Bottom 10mm_Hotspot**
Date: 6/10/2021
Electronics: DAE4 Sn1331
Medium: head 2600 MHz
Medium parameters used: f = 2580 MHz; $\sigma$ = 1.966 mho/m; $\varepsilon r$ = 38.98; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE2600-TDD38 2580 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.17,7.17,7.17)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.626 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.77 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.735 W/kg
**SAR(1 g) = 0.374 W/kg; SAR(10 g) = 0.183 W/kg**
Maximum value of SAR (measured) = 0.6 W/kg

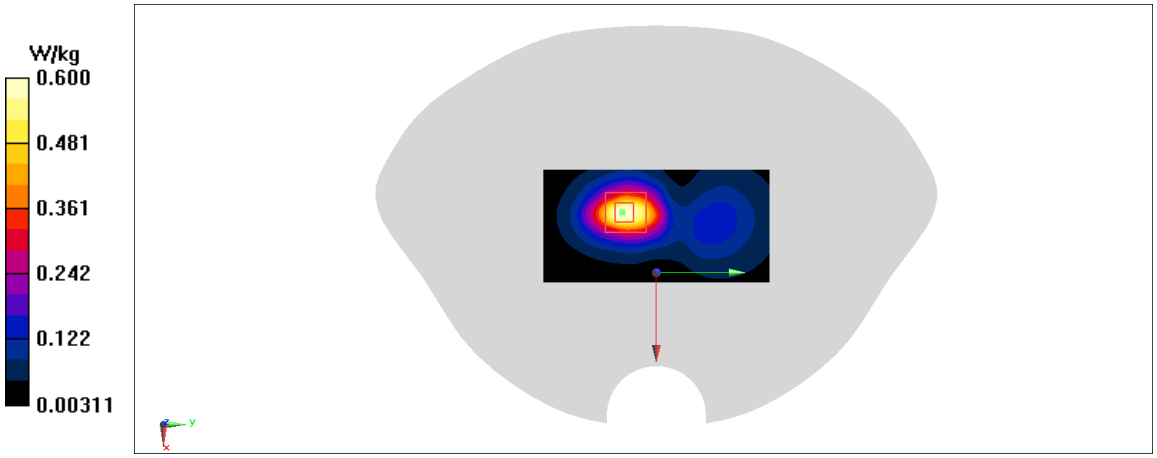



**Fig A.34**

**LTE2500-TDD41 PC3_CH41490 Left Cheek**
Date: 6/10/2021
Electronics: DAE4 Sn1331
Medium: head 2600 MHz
Medium parameters used: f = 2680 MHz; $\sigma$ = 2.055 mho/m; $\varepsilon r$ = 38.97; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE2500-TDD41 2680 MHz Duty Cycle: 1:1.58
Probe: EX3DV4 – SN7548 ConvF(7.17,7.17,7.17)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.230W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.335V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.275W/kg
**SAR(1 g) = 0.149 W/kg; SAR(10 g) = 0.081 W/kg**
Maximum value of SAR (measured) = 0.228W/kg

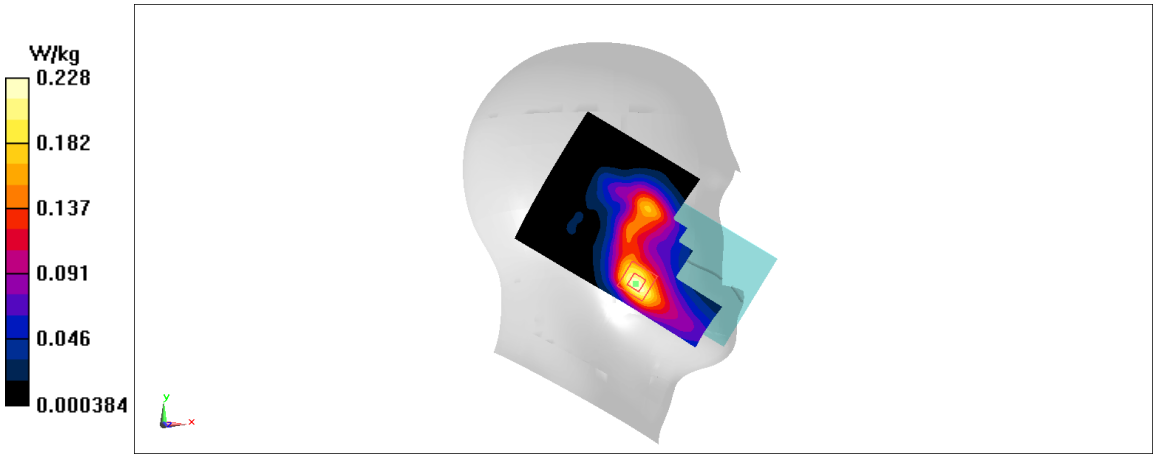



**Fig A.35**

**LTE2500-TDD41 PC3_CH41490 Rear 15mm_Body worn**
Date: 6/10/2021
Electronics: DAE4 Sn1331
Medium: head 2600 MHz
Medium parameters used: f = 2680 MHz; $\sigma$ = 2.055 mho/m; $\varepsilon r$ = 38.97; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE2500-TDD41 2680 MHz Duty Cycle: 1:1.58
Probe: EX3DV4 – SN7548 ConvF(7.17,7.17,7.17)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) =0.434W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value =3.924V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) =0.529W/kg
**SAR(1 g) = 0.282 W/kg; SAR(10 g) = 0.152 W/kg**
Maximum value of SAR (measured) = 0.431W/kg

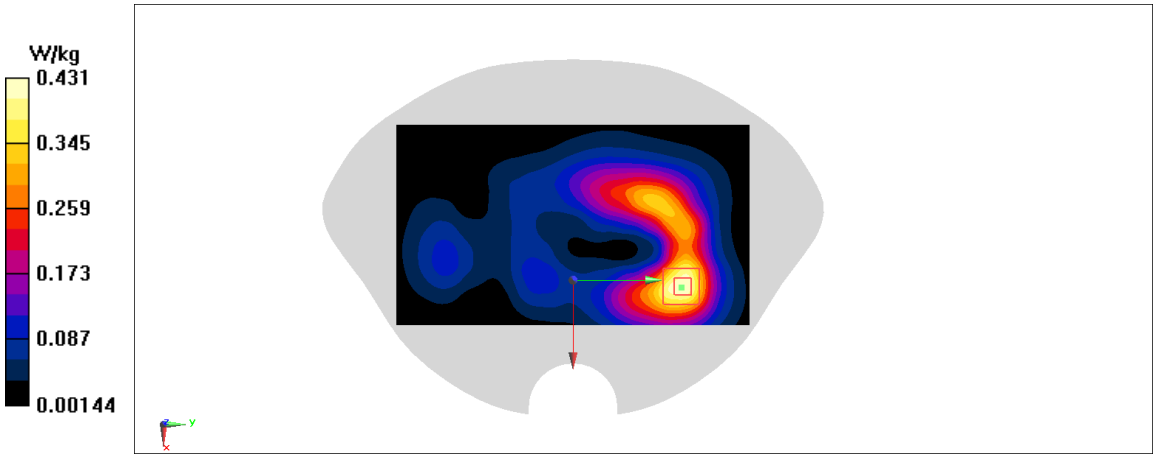



**Fig A.36**

**LTE2500-TDD41 PC3_CH39750 Bottom 10mm_Hotspot**
Date: 6/10/2021
Electronics: DAE4 Sn1331
Medium: head 2600 MHz
Medium parameters used: f = 2506 MHz; $\sigma$ = 1.919 mho/m; $\varepsilon r$ = 39.396; $\rho$ = 1000 kg/$m^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE2500-TDD41 2506 MHz Duty Cycle: 1:1.58
Probe: EX3DV4 – SN7548 ConvF(7.17,7.17,7.17)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.443 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.67 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.528 W/kg
**SAR(1 g) = 0.275 W/kg; SAR(10 g) = 0.132 W/kg**
Maximum value of SAR (measured) = 0.435 W/kg

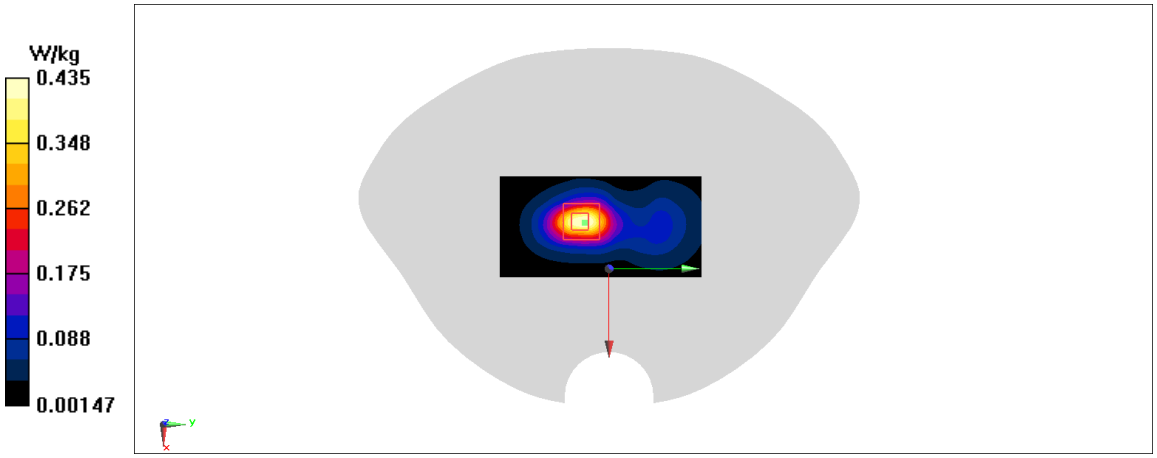



**Fig A.37**

**LTE2500-TDD41 PC2_CH40620 Left Cheek**
Date: 6/10/2021
Electronics: DAE4 Sn1331
Medium: head 2600 MHz
Medium parameters used: f = 2593 MHz; $\sigma$ = 1.988 mho/m; $\varepsilon r$ = 39.151; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE2500-TDD41 2593 MHz Duty Cycle: 1:2.37
Probe: EX3DV4 – SN7548 ConvF(7.17,7.17,7.17)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) =0.253W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.996V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 0.295W/kg
**SAR(1 g) = 0.165 W/kg; SAR(10 g) = 0.091 W/kg**
Maximum value of SAR (measured) = 0.247W/kg

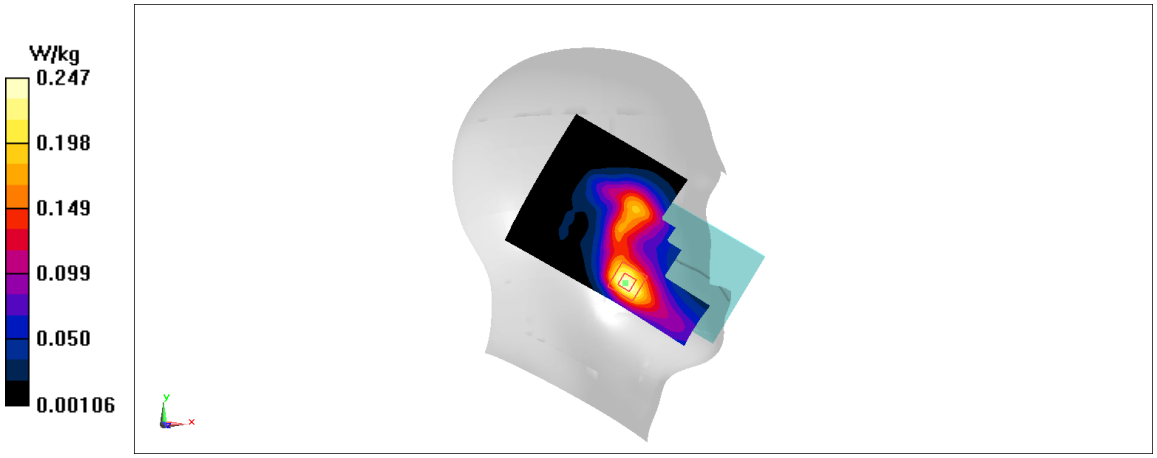



**Fig A.38**

**LTE2500-TDD41 PC2_CH40620 Rear 15mm_Body worn**
Date: 6/10/2021
Electronics: DAE4 Sn1331
Medium: head 2600 MHz
Medium parameters used: f = 2593 MHz; $\sigma$ = 1.988 mho/m; $\varepsilon r$ = 39.151; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE2500-TDD41 2593 MHz Duty Cycle: 1:2.37
Probe: EX3DV4 – SN7548 ConvF(7.17,7.17,7.17)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.384W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.888V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) =  W/kg
**SAR(1 g) = 0.248 W/kg; SAR(10 g) = 0.134 W/kg**
Maximum value of SAR (measured) = 0.380W/kg

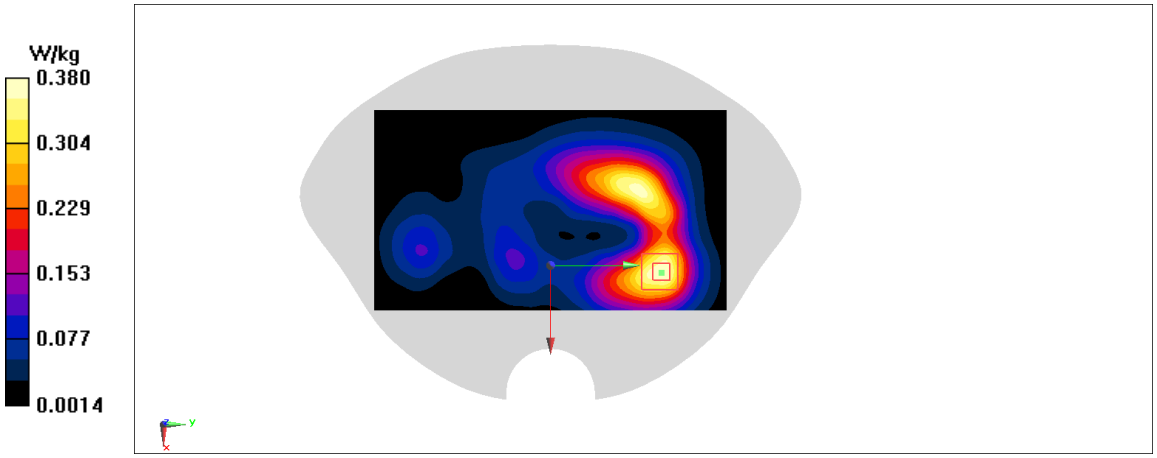



**Fig A.39**

**LTE2500-TDD41 PC2_CH39750 Bottom 10mm_Hotspot**
Date: 6/10/2021
Electronics: DAE4 Sn1331
Medium: head 2600 MHz
Medium parameters used: f = 2506 MHz; $\sigma$ = 1.332 mho/m; $\varepsilon r$ = 40.648; $\rho$ = 1000 kg/$m^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE2500-TDD41 PC2 2506 MHz Duty Cycle: 1:2.37
Probe: EX3DV4 – SN7548 ConvF(7.17,7.17,7.17)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.549 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.00 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.661 W/kg
**SAR(1 g) = 0.343 W/kg; SAR(10 g) = 0.165 W/kg**
Maximum value of SAR (measured) = 0.545 W/kg

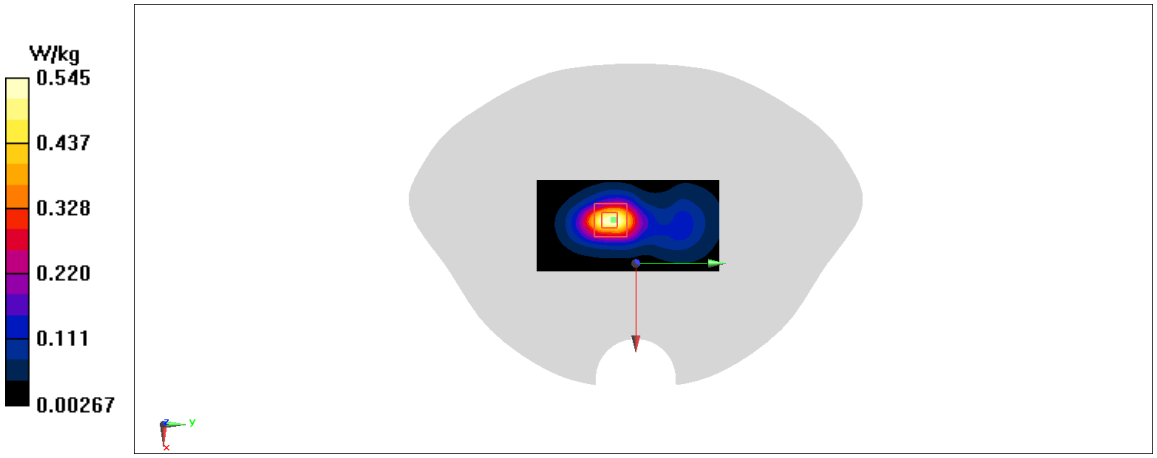



**Fig A.40**

**LTE1700-FDD66 ANT1_CH132072 Left Cheek**
Date: 6/5/2021
Electronics: DAE4 Sn1331
Medium: head 1750 MHz
Medium parameters used: f = 1720 MHz; $\sigma$ = 1.332 mho/m; $\varepsilon r$ = 40.648; $\rho$ = 1000 kg/$m^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE1700-FDD66 1720 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(8.24,8.24,8.24)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) =0.262W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value =6.190 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.293 W/kg
**SAR(1 g) = 0.204 W/kg; SAR(10 g) = 0.136 W/kg**
Maximum value of SAR (measured) =0.262W/kg

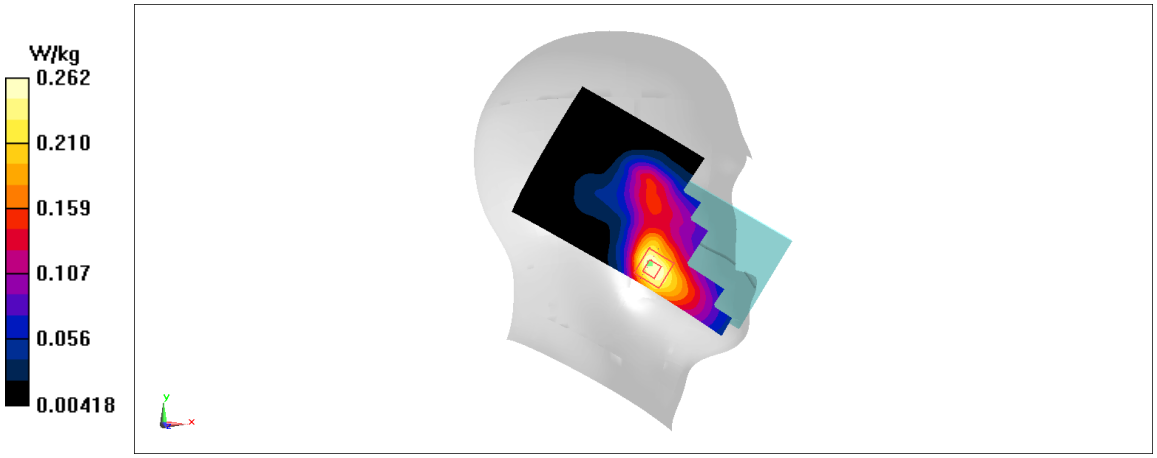



**Fig A.41**

**LTE1700-FDD66 ANT1_CH132072 Rear 15mm_Body worn**
Date: 6/5/2021
Electronics: DAE4 Sn1331
Medium: head 1750 MHz
Medium parameters used: f = 1720 MHz; $\sigma$ = 1.332 mho/m; $\varepsilon r$ = 40.648; $\rho$ = 1000 kg/$m^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE1700-FDD66 1720 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(8.24,8.24,8.24)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.598W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value =14.20V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.676W/kg
**SAR(1 g) = 0.445 W/kg; SAR(10 g) = 0.296 W/kg**
Maximum value of SAR (measured) =0.590W/kg

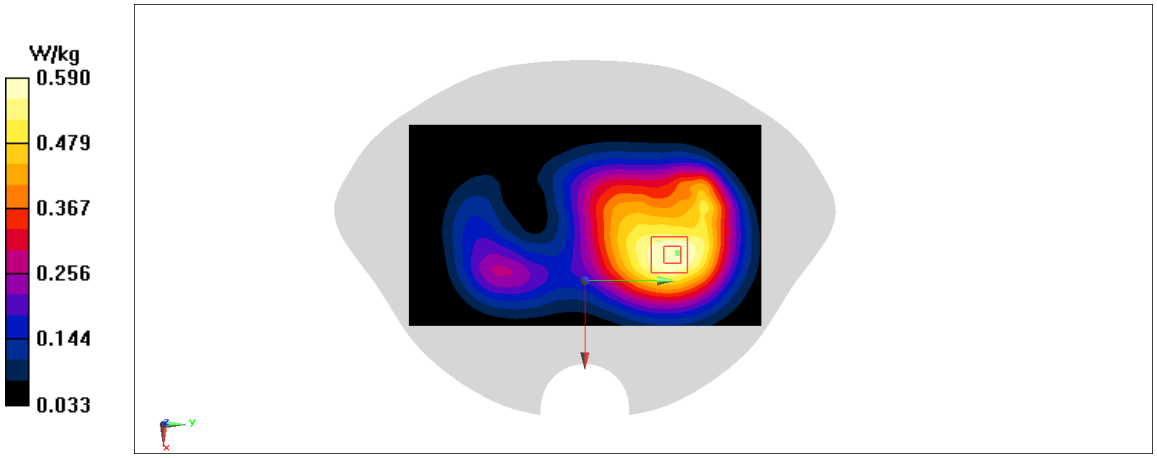



**Fig A.42**

**LTE1700-FDD66 ANT1_CH132572 Rear 10mm_Hotspot**
Date: 6/5/2021
Electronics: DAE4 Sn1331
Medium: head 1750 MHz
Medium parameters used: f = 1770 MHz; $\sigma$ = 1.439 mho/m; $\varepsilon r$ = 40.633; $\rho$ = 1000 kg/$m^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE1700-FDD66 1770 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(8.24,8.24,8.24)

**Area Scan (81x141x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.726W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.275V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.851W/kg
**SAR(1 g) = 0.444 W/kg; SAR(10 g) = 0.252 W/kg**
Maximum value of SAR (measured) = 0.676W/kg

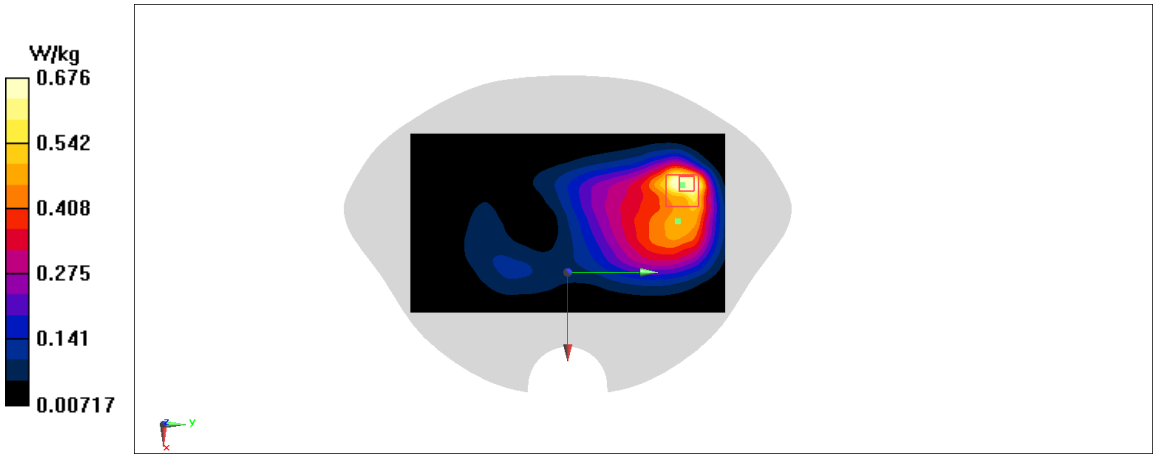



**Fig A.43**

**LTE1700-FDD66 ANT4_CH132072 Right Tilt**
Date: 6/5/2021
Electronics: DAE4 Sn1331
Medium: head 1750 MHz
Medium parameters used: f = 1720 MHz; $\sigma$ = 2.159 mho/m; $\varepsilon r$ = 39.84; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE1700-FDD66 1720 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(8.24,8.24,8.24)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.7 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 13.33 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.95 W/kg
**SAR(1 g) = 0.4 W/kg; SAR(10 g) = 0.174 W/kg**
Maximum value of SAR (measured) = 0.658 W/kg

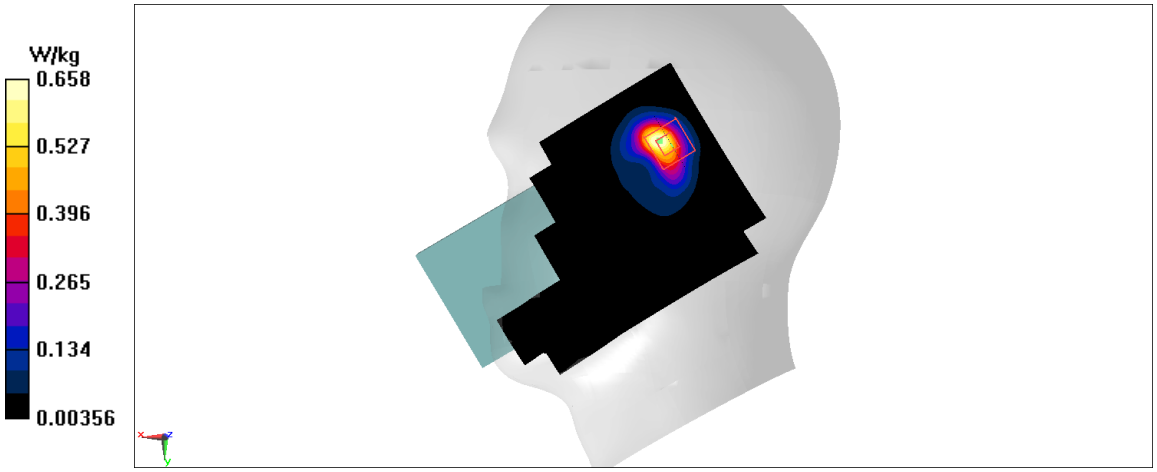



**Fig A.44**

**LTE1700-FDD66 ANT4_CH132072 Rear 15mm_Body worn**
Date: 6/5/2021
Electronics: DAE4 Sn1331
Medium: head 1750 MHz
Medium parameters used: f = 1720 MHz; $\sigma$ = 2.159 mho/m; $\varepsilon r$ = 39.84; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE1700-FDD66 1720 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(8.24,8.24,8.24)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.168 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.012 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 0.219 W/kg
**SAR(1 g) = 0.126 W/kg; SAR(10 g) = 0.069 W/kg**
Maximum value of SAR (measured) = 0.184 W/kg

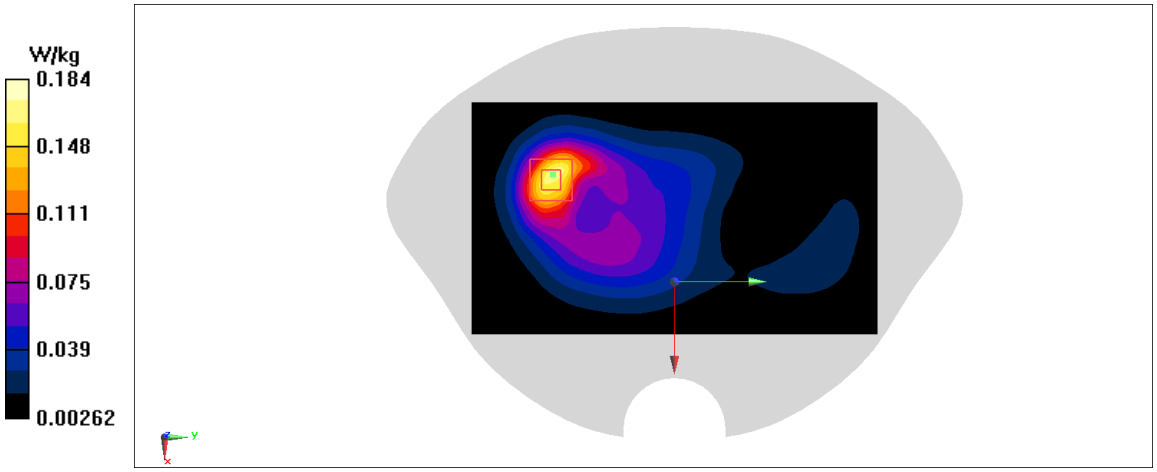



**Fig A.45**

**LTE1700-FDD66 ANT4_CH132072 Rear 10mm_Hotspot**
Date: 6/5/2021
Electronics: DAE4 Sn1331
Medium: head 1750 MHz
Medium parameters used: f = 1720 MHz; $\sigma$ = 1.332 mho/m; $\varepsilon r$ = 40.648; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE1700-FDD66 1720 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(8.24,8.24,8.24)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.303 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.694 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 0.362 W/kg
**SAR(1 g) = 0.194 W/kg; SAR(10 g) = 0.098 W/kg**
Maximum value of SAR (measured) = 0.298 W/kg

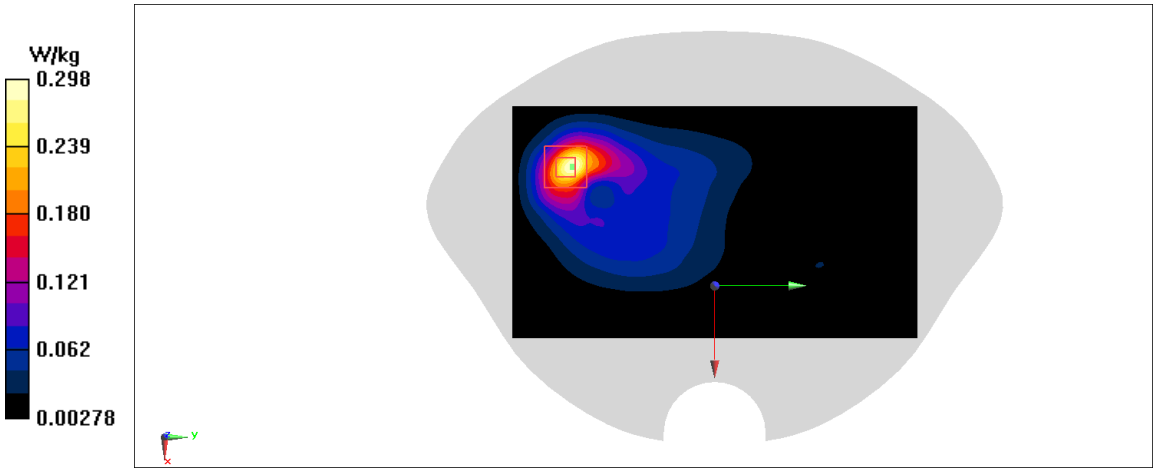



**Fig A.46**

**LTE700-FDD71_CH133322 Right Tilt**
Date: 6/2/2021
Electronics: DAE4 Sn1331
Medium: head 750 MHz
Medium parameters used: f = 683 MHz; $\sigma$ = 0.868 mho/m; $\varepsilon r$ = 44.07; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE700-FDD71 683 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.0611 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 4.776 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.089 W/kg
**SAR(1 g) = 0.056 W/kg; SAR(10 g) = 0.043 W/kg**
Maximum value of SAR (measured) = 0.0811 W/kg

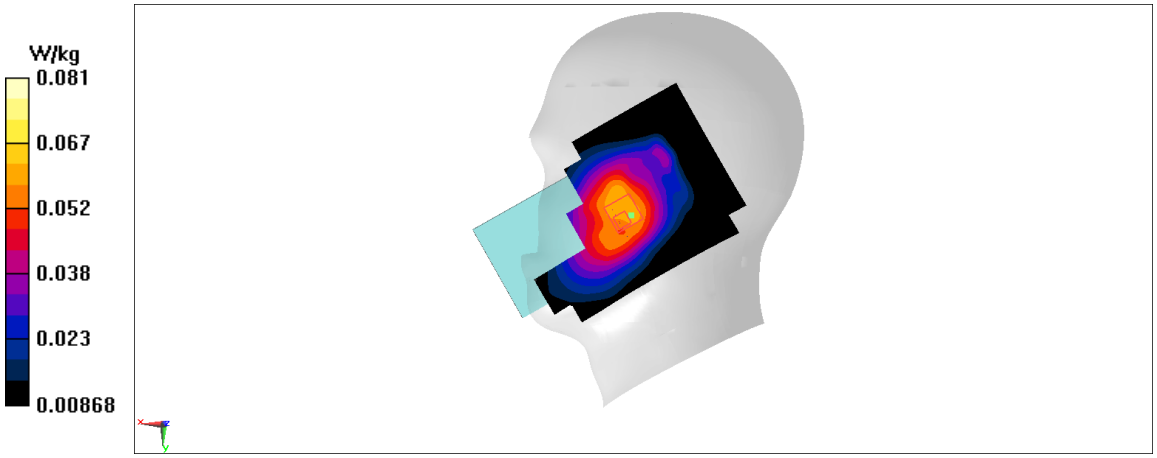



**Fig A.47**

**LTE700-FDD71_CH133322 Right 10mm**
Date: 6/2/2021
Electronics: DAE4 Sn1331
Medium: head 750 MHz
Medium parameters used: f = 683 MHz; $\sigma$ = 0.868 mho/m; $\varepsilon r$ = 44.07; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: LTE700-FDD71 683 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(10.17,10.17,10.17)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.273 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.38 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.312 W/kg
**SAR(1 g) = 0.21 W/kg; SAR(10 g) = 0.148 W/kg**
Maximum value of SAR (measured) = 0.275 W/kg

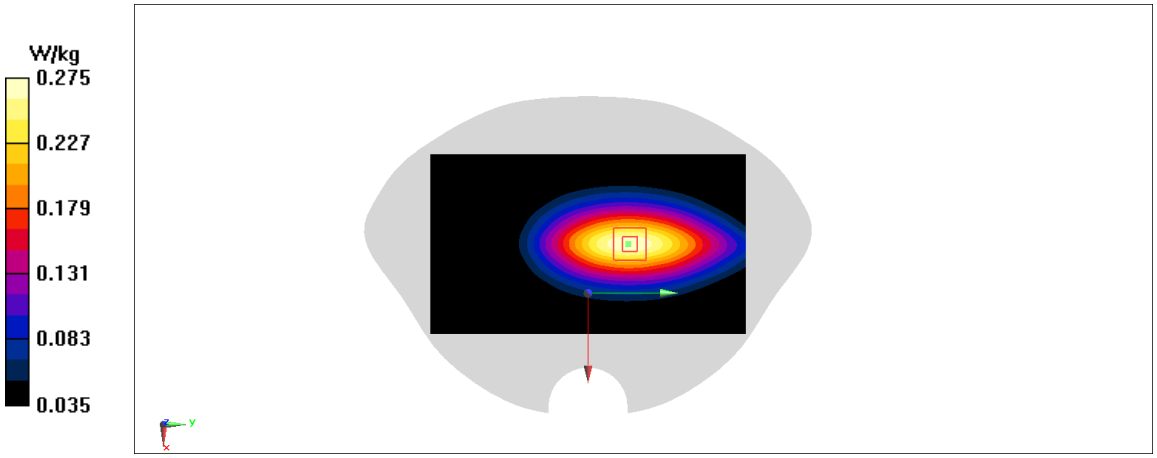



**Fig A.48**

**5G NR n25 ANT1_CH374592 Left Cheek**
Date: 6/8/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1882.5 MHz; $\sigma$ = 1.5 mho/m; $\varepsilon r$ = 40.382; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: 5G NR n25 1882.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.313W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.901V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.339W/kg
**SAR(1 g) = 0.219 W/kg; SAR(10 g) = 0.139 W/kg**
Maximum value of SAR (measured) =0.298 W/kg

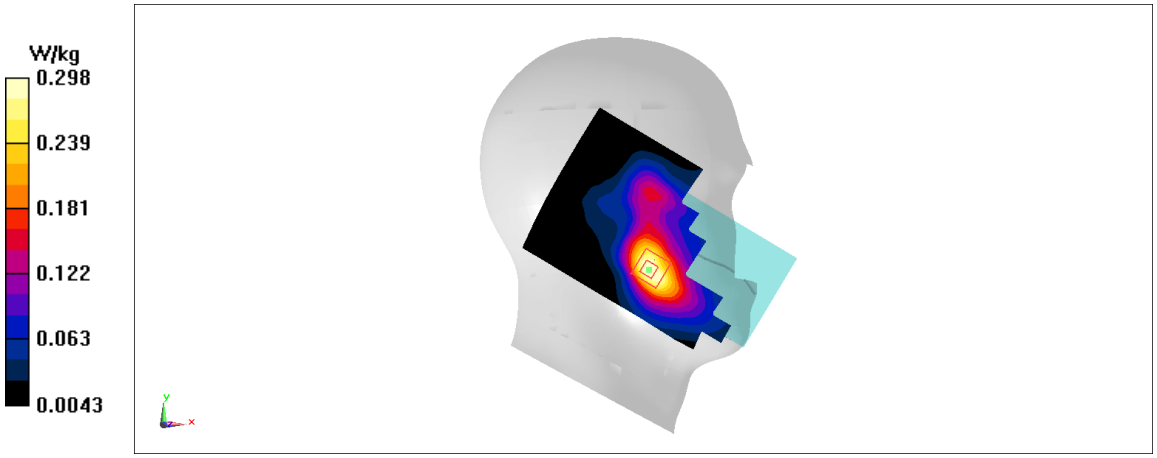



**Fig A.49**

**5G NR n25 ANT1_CH374592 Rear 15mm_Body Worn**
Date: 6/8/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1860 MHz; $\sigma$ = 1.487 mho/m; $\varepsilon r$ = 40.412; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: 5G NR n25 1860 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) =0.503 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.49V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) =0.602 W/kg
**SAR(1 g) = 0.344 W/kg; SAR(10 g) = 0.202 W/kg**
Maximum value of SAR (measured) =0.508 W/kg

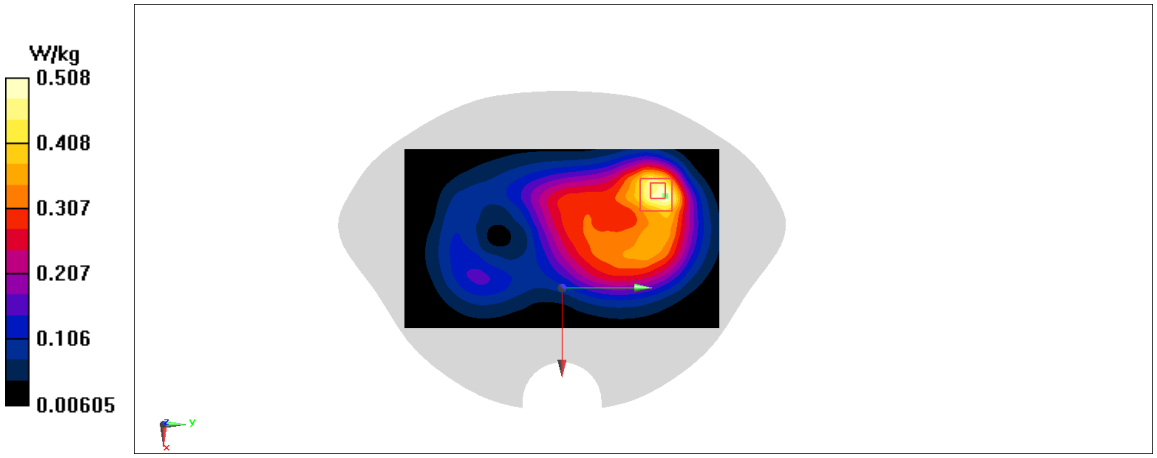



**Fig A.50**

**5G NR n25 ANT1_CH370092 Rear 10mm_Hotspot**
Date: 6/8/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1860 MHz; $\sigma$ = 1.487 mho/m; $\varepsilon r$ = 40.412; $\rho$ = 1000 kg/$m^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: 5G NR n25 1860 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.611W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.55V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.707W/kg
**SAR(1 g) = 0.373 W/kg; SAR(10 g) = 0.206 W/kg**
Maximum value of SAR (measured) = 0.569W/kg

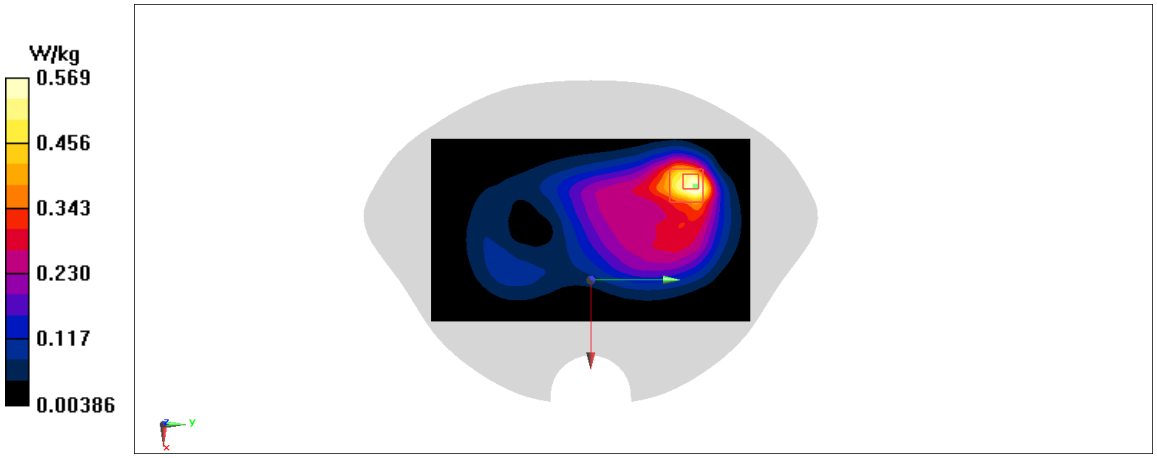



**Fig A.51**

**5G NR n25 ANT4_CH370092 Right Tilt**
Date: 6/8/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1860 MHz; $\sigma$ = 1.487 mho/m; $\varepsilon r$ = 40.412; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: 5G NR n25 1860 MHz Duty Cycle: 1：1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) =1.10 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 21.90 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 1.41 W/kg
**SAR(1 g) = 0.645 W/kg; SAR(10 g) = 0.301 W/kg**
Maximum value of SAR (measured) = 1.15 W/kg

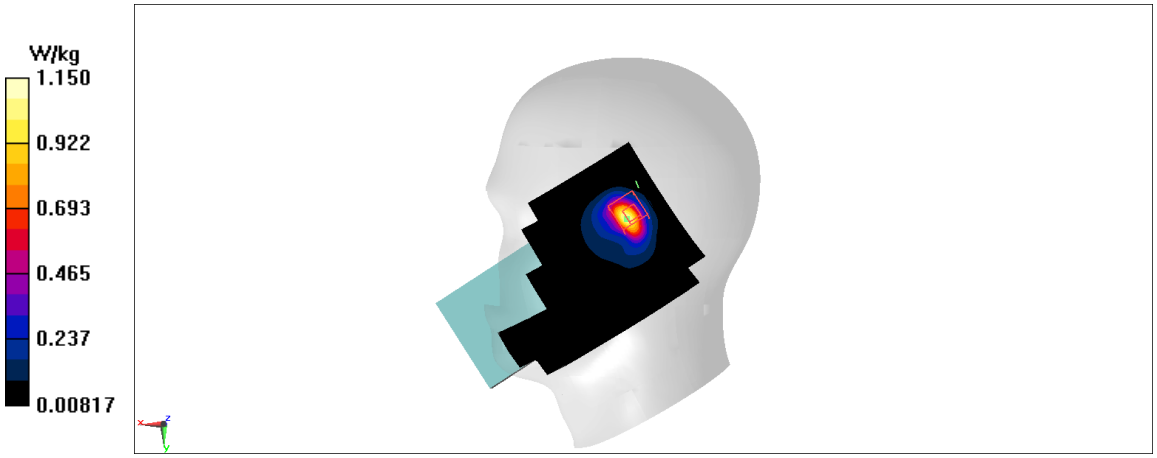



**Fig A.52**

**5G NR n25 ANT4_CH370050 Rear 15mm_Body worn**
Date: 6/8/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1852.5 MHz; $\sigma$ = 1.404 mho/m; $\varepsilon r$ = 41.865; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: 5G NR n25 1852.5 MHz Duty Cycle: 1：1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.459 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.25V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) =0.541 W/kg
**SAR(1 g) = 0.31 W/kg; SAR(10 g) = 0.178 W/kg**
Maximum value of SAR (measured) = 0.451 W/kg

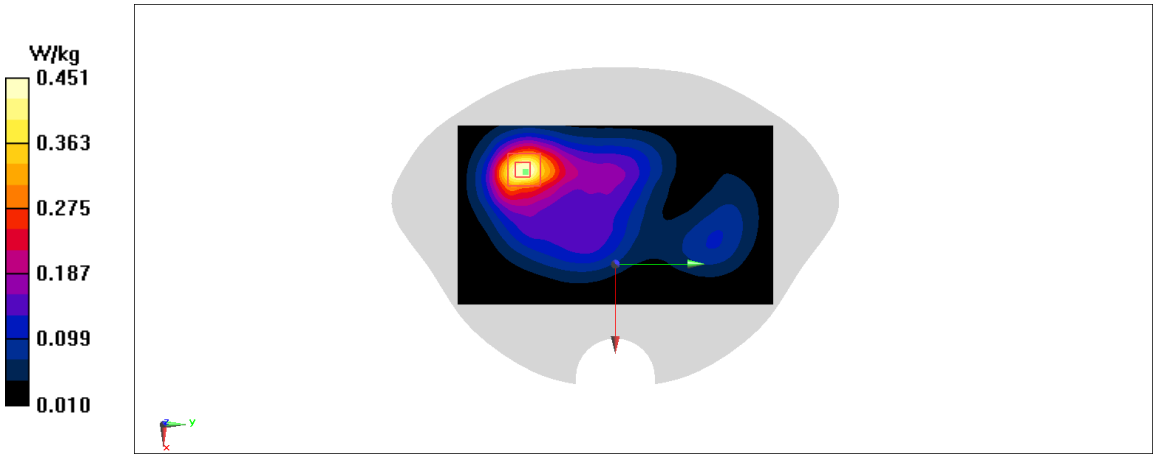



**Fig A.53**

**5G NR n25 ANT4_CH370092 Rear 10mm_Hotspot**
Date: 6/8/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 1860 MHz; $\sigma$ = 1.487 mho/m; $\varepsilon r$ = 40.412; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: 5G NR n25 1860 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.85,7.85,7.85)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.864 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.2 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.03 W/kg
**SAR(1 g) = 0.563 W/kg; SAR(10 g) = 0.305 W/kg**
Maximum value of SAR (measured) = 0.862 W/kg

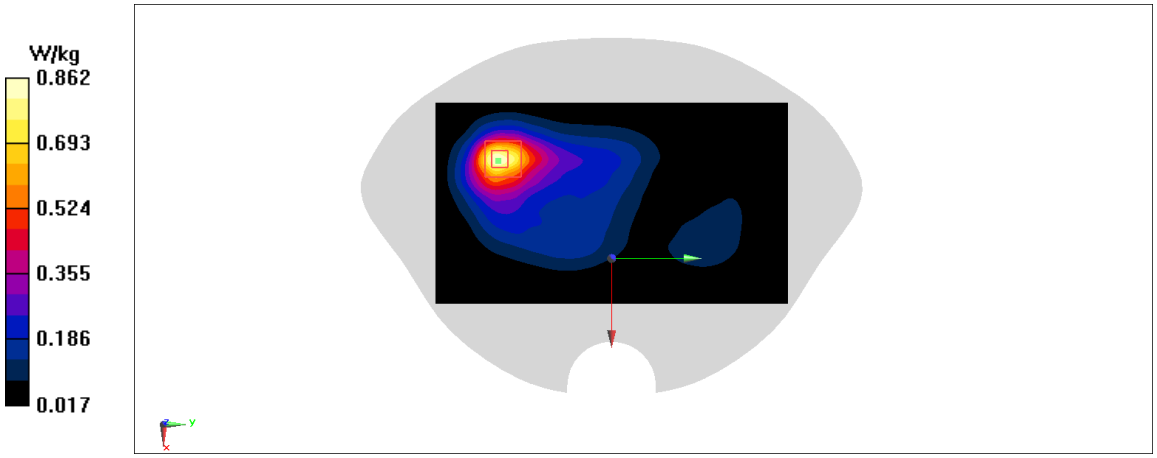



**Fig A.54**

**5G NR n41_CH535988 Right Tilt**
Date: 6/8/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 2679.99 MHz; $\sigma$ = 2.015 mho/m; $\varepsilon r$ = 40.588; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: 5G NR n41 2679.99 MHz Duty Cycle: 1：1
Probe: EX3DV4 – SN7548 ConvF(7.17,7.17,7.17)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.4 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 8.183 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 1.52 W/kg
**SAR(1 g) = 0.576 W/kg; SAR(10 g) = 0.244 W/kg**
Maximum value of SAR (measured) = 1.1 W/kg

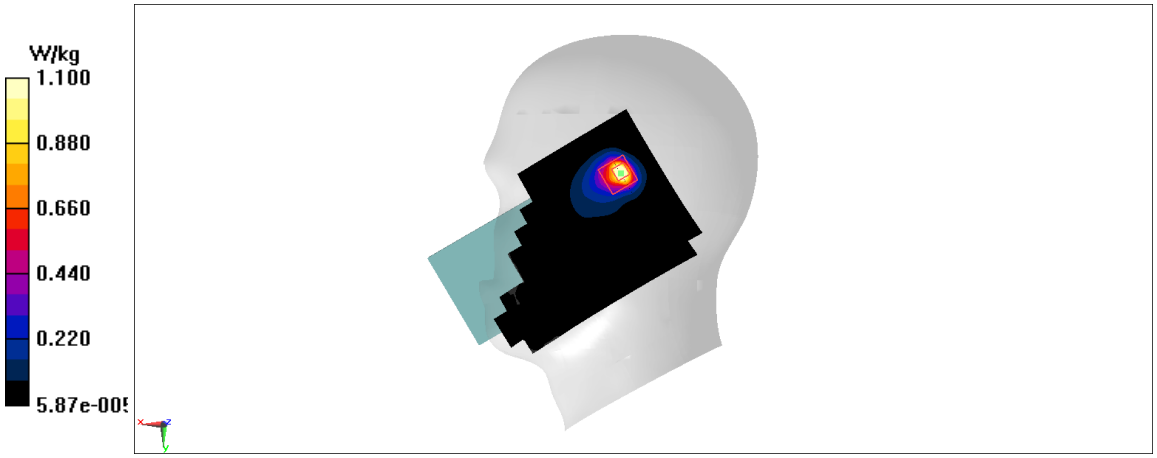



**Fig A.55**

**5G NR n41_CH518598 Rear 15mm_Body worn**
Date: 6/8/2021
Electronics: DAE4 Sn1331
Medium: head 1900 MHz
Medium parameters used: f = 2592.99 MHz; $\sigma$ = 1.934 mho/m; $\varepsilon r$ = 40.725; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: 5G NR n41 2592.99 MHz Duty Cycle: 1：1
Probe: EX3DV4 – SN7548 ConvF(7.17,7.17,7.17)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.463 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.503 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.55 W/kg
**SAR(1 g) = 0.278 W/kg; SAR(10 g) = 0.14 W/kg**
Maximum value of SAR (measured) = 0.435 W/kg

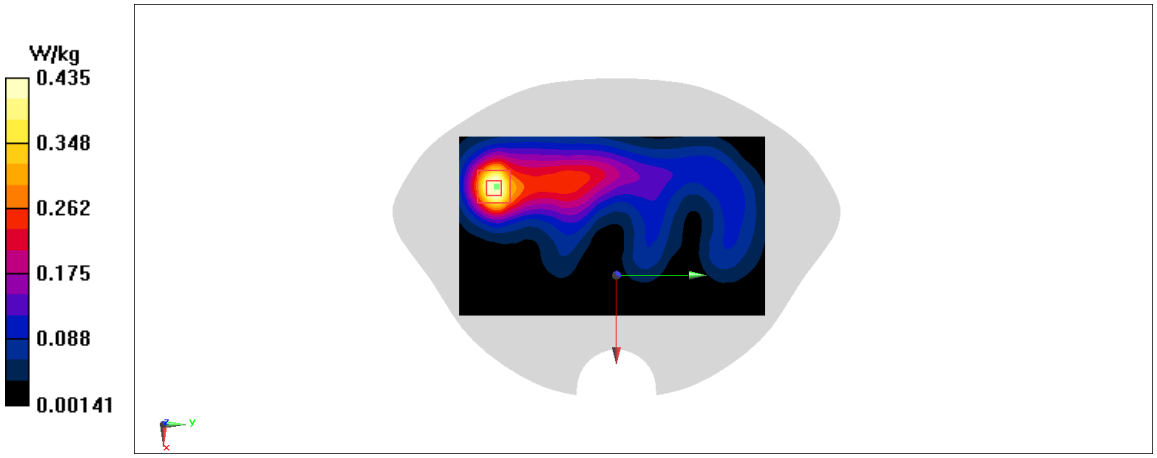



**Fig A.56**

**5G NR n41_CH535988 Top 10mm_Hotspot**
Date: 6/10/2021
Electronics: DAE4 Sn1331
Medium: head 2600 MHz
Medium parameters used: f = 2679.99 MHz; $\sigma$ = 2.015 mho/m; $\varepsilon r$ = 40.588; $\rho$ = 1000 kg/m$^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: 5G NR n41 2679.99 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(7.17,7.17,7.17)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.97 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.26 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 2.7 W/kg
**SAR(1 g) = 0.483 W/kg; SAR(10 g) = 0.199 W/kg**
Maximum value of SAR (measured) = 2.07 W/kg

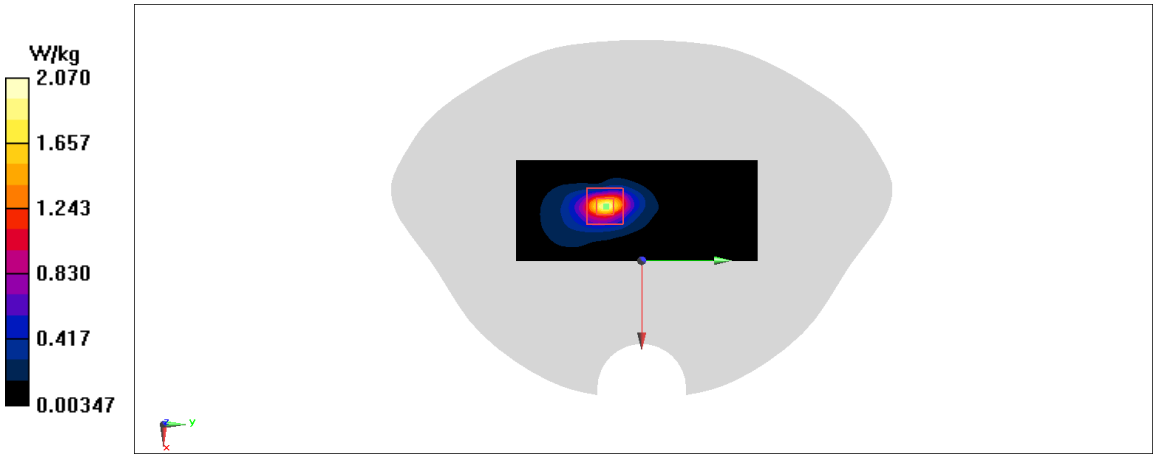



**Fig A.57**

**5G NR n66 ANT1_CH349000 Left Cheek**
Date: 6/6/2021
Electronics: DAE4 Sn1331
Medium: head 1750 MHz
Medium parameters used: f = 1745 MHz; $\sigma$ = 1.425 mho/m; $\varepsilon r$ = 40.721; $\rho$ = 1000 kg/$m^3$
Ambient Temperature: 22.5ºC,  Liquid Temperature: 22.3ºC
Communication System: 5G NR n66 1745 MHz Duty Cycle: 1:1
Probe: EX3DV4 – SN7548 ConvF(8.24,8.24,8.24)

**Area Scan (71x121x1):** Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 0.301W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value =5.084V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.334 W/kg
**SAR(1 g) = 0.222 W/kg; SAR(10 g) = 0.146 W/kg**
Maximum value of SAR (measured) = 0.291 W/kg

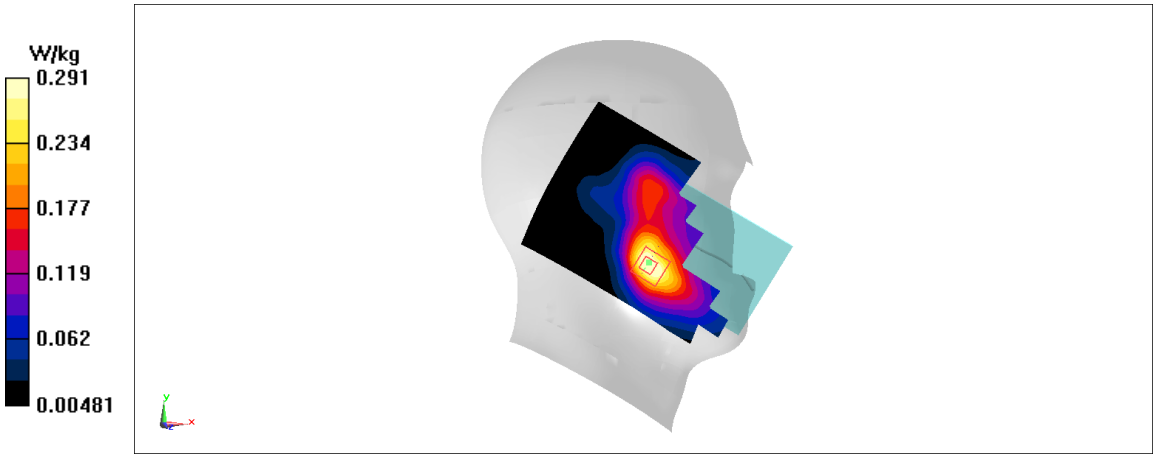



**Fig A.58**