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Part 1 SAR TEST REPORT

| | |
|--|---|
| Applicant Name: SAMSUNG Electronics Co., Ltd. 129, Samsung-ro, Yeongtong-gu, Suwon-Si, Gyeonggi-do, 16677 Rep. of Korea | Date of Issue: Sep. 03 2020 Test Report No.: HCT-SR-2008-FC010-R1 Test Site: HCT CO., LTD. |
|--|---|

FCC ID:

A3LSMG781V

| | |
|--------------------------|---------------------------------------|
| Equipment Type: | Mobile Phone |
| Application Type | Certification |
| FCC Rule Part(s): | CFR §2.1093 |
| Model Name: | SM-G781V |
| Date of Test: | July. 08, 2020 ~ Aug. 24. 2020 |

This device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in FCC KDB procedures and had been tested in accordance with the measurement procedures specified in FCC KDB procedures.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Tested By

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Test Engineer
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Reviewed By

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REVISION HISTORY

The revision history for this test report is shown in table.

| Revision No. | Date of Issue | Description |
|---------------------|----------------------|------------------------------|
| 0 | Aug. 26, 2020 | Initial Release |
| 1 | Sep.03,2020 | Revised Pages 9,11,22,87,176 |

This test results were applied only to the test methods required by the standard.

The above Test Report is not related to the accredited test result by (KS Q) ISO/IEC 17025 and KOLAS(Korea Laboratory Accreditation Scheme), which signed the ILAC-MRA.

Table of Contents

| | |
|---|-----|
| 1. Test Regulations | 4 |
| 2. Test Location..... | 5 |
| 3. Information of the EUT | 5 |
| 4. Device Under Test Description..... | 7 |
| 5. Introduction | 34 |
| 6. Description of test equipment..... | 35 |
| 7. SAR Measurement Procedure | 36 |
| 8. Description of Test Position | 38 |
| 9. RF Exposure Limits | 43 |
| 10. FCC SAR General Measurement Procedures | 44 |
| 11. Output Power Specifications | 54 |
| 12. System Verification | 177 |
| 13. SAR Test Data Summary..... | 187 |
| 14. Simultaneous SAR Analysis..... | 229 |
| 15. SAR Measurement Variability and Uncertainty | 251 |
| 16. LTE Band 41 Power Class 2 and Power class 3 Linearity | 252 |
| 17. Measurement Uncertainty..... | 254 |
| 18. SAR Test Equipment | 255 |
| 19. Conclusion | 257 |
| 20. References | 258 |
| Appendix | 260 |

Appendix A. DUT Ant. Information & Test SETUP PHOTO

Appendix B. SAR Test Plots

Appendix C. Dipole Verification Plots

Appendix D. SAR Tissue Characterization

Appendix E. SAR System Validation

Appendix F. Probe Calibration Data

Appendix G. Dipole Calibration Data

Appendix H. Power reduction verification

Appendix I. DLCA Power Measurement

1. Test Regulations

The tests documented in this report were performed in accordance with FCC CFR § 2.1093, IEEE 1528-2013, ANSI C63.26-2015 the following FCC Published RF exposure KDB procedures:

- FCC KDB Publication 941225 D01 3G SAR Procedures v03r01
- FCC KDB Publication 941225 D06 Hot Spot SAR v02r01
- FCC KDB Publication 941225 D05 SAR for LTE Devices v02r05
- FCC KDB Publication 941225 D05A LTE Rel.10 KDB Inquiry sheet v01r02
- FCC KDB Publication 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB Publication 447498 D01 General SAR Guidance v06
- FCC KDB Publication 648474 D04 Handset SAR v01r03
- FCC KDB Publication 616217 D04 v01r02 (Proximity Sensor)
- FCC KDB Publication 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
- FCC KDB Publication 865664 D02 SAR Reporting v01r02
- FCC KDB Publication 690783 D01 SAR Listings on Grants v01r03
- FCC KDB Publication 971168 D01 Power Meas License Digital Systems v03r01

In Addition to the above, the following information was used.

- October 2013 TCB Workshop Notes (GPRS testing criteria)
- October 2014 TCB Workshop Notes (Overlapping LTE Bands)
- April 2015 TCB Workshop Notes (Simultaneous transmission summation clarified)
- October 2016 TCB Workshop Notes (Bluetooth Duty Factor)
- November 2017 TCBC Workshop Notes (LTE Carrier Aggregation)
- May 2017 TCBC Workshop Notes (LTE Band 41 Power Class 2)
- April 2018 TCBC Workshop Notes (LTE DL CA SAR Test Exclusion)
- April 2019 TCBC Workshop Notes (Dynamic Antenna tuning)

2. Test Location

2.1 Test Laboratory

| | |
|---------------------|---|
| Company Name | HCT Co., Ltd. |
| Address | 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 KOREA |
| Telephone | 031-645-6300 |
| Fax. | 031-645-6401 |

2.2 Test Facilities

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

| | |
|--------------|---|
| Korea | National Radio Research Agency (Designation No. KR0032) |
| | KOLAS (Testing No. KT197) |

3. Information of the EUT

3.1 General Information of the EUT

| | |
|-------------------------|-------------------------------|
| Model Name | SM-G781V |
| Equipment Type | Mobile Phone |
| FCC ID | A3LSMG781V |
| Application Type | Certification |
| Applicant | SAMSUNG Electronics Co., Ltd. |

3.2 Attestation of test result of device under test

| The Highest Reported SAR | | | | | | |
|---|-----------------------------|-----------------|---------------------|--------------|-------------|---------------|
| Band | Tx. Frequency | Equipment Class | Reported SAR (W/kg) | | | |
| | | | 1g Head | 1g Body-Worn | 1g Hotspot | 10g Extremity |
| CDMA/EVDO BC10 | 817.90 MHz ~ 823.10 MHz | PCE | 0.27 | 0.34 | 0.65 | N/A |
| CDMA/EVDO BC0 | 824.70 MHz ~ 848.31 MHz | PCE | 0.17 | 0.33 | 0.64 | N/A |
| PCS CDMA/EVDO | 1 851.25 MHz ~ 1 908.75 MHz | PCE | 0.16 | 0.88 | 0.70 | 1.24 |
| GSM/GPRS/EDGE 850 | 824.2 MHz ~ 848.8 MHz | PCE | 0.22 | 0.39 | 0.74 | N/A |
| GSM/GPRS/EDGE 1900 | 1 850.2 MHz ~ 1 909.8 MHz | PCE | 0.10 | 0.47 | 1.07 | 1.37 |
| UMTS 850 | 826.4 MHz ~ 846.6 MHz | PCE | 0.20 | 0.30 | 0.58 | N/A |
| UMTS 1700 | 1 712.4 MHz ~ 1 752.6 MHz | PCE | 0.13 | 0.93 | 0.79 | 1.93 |
| UMTS 1900 | 1 852.4 MHz ~ 1 907.6 MHz | PCE | 0.14 | 0.72 | 1.03 | 1.29 |
| LTE Band 2 (PCS) | 1 850.7 MHz ~ 1 909.3 MHz | PCE | N/A | N/A | N/A | N/A |
| LTE Band 4 (AWS) | 1 710.7 MHz ~ 1 754.3 MHz | PCE | N/A | N/A | N/A | N/A |
| LTE Band 5 (Cell) | 824.7 MHz ~ 848.3 MHz | PCE | N/A | N/A | N/A | N/A |
| LTE Band 7 | 2 502.5 MHz ~ 2 567.5 MHz | PCE | 0.10 | 0.37 | 0.50 | N/A |
| LTE Band 12 | 699.7 MHz ~ 715.3 MHz | PCE | 0.19 | 0.33 | 0.44 | N/A |
| LTE Band 13 | 779.5 MHz ~ 784.5 MHz | PCE | 0.28 | 0.45 | 0.78 | N/A |
| LTE Band 14 | 790.5 MHz ~ 795.5 MHz | PCE | 0.26 | 0.44 | 0.79 | N/A |
| LTE Band 25 | 1 850.7 MHz ~ 1 914.3 MHz | PCE | <0.10 | 0.68 | 0.96 | 1.51 |
| LTE Band 26 | 814.7 MHz ~ 848.3 MHz | PCE | 0.19 | 0.29 | 0.59 | N/A |
| LTE Band 30 | 2 307.5 MHz ~ 2 312.5 MHz | PCE | 0.12 | 0.51 | 0.44 | N/A |
| LTE TDD Band 38 | 2 572.5 MHz ~ 2 617.5 MHz | PCE | N/A | N/A | N/A | N/A |
| LTE TDD Band 40 | 2 302.5 MHz ~ 2 397.5 MHz | PCE | <0.10 | <0.10 | <0.10 | N/A |
| LTE TDD Band 41 | 2 498.5 MHz ~ 2 687.5 MHz | PCE | <0.10 | 0.29 | 0.44 | N/A |
| LTE Band 66 (AWS) | 1 710.7 MHz ~ 1 779.3 MHz | PCE | 0.23 | 1.05 | 0.89 | 1.64 |
| LTE Band 71 | 665.5 MHz ~ 695.5 MHz | PCE | 0.27 | 0.39 | 0.51 | N/A |
| NR Band n2 (PCS) | 1 852.5 MHz ~ 1 907.5 MHz | PCE | N/A | N/A | N/A | N/A |
| NR Band n5 (Cell) | 826.5 MHz ~ 846.5 MHz | PCE | <0.10 | 0.17 | 0.32 | N/A |
| NR Band n25 | 1852.5 MHz ~ 1912.5 MHz | PCE | 0.19 | 1.11 | 0.95 | 1.73 |
| NR Band n41 | 2 506.02 MHz ~ 2 679.99 MHz | PCE | <0.10 | <0.10 | 0.15 | N/A |
| NR Band n66 | 1 712.5 MHz ~ 1 777.5 MHz | PCE | 0.11 | 0.50 | 0.87 | 1.51 |
| NR Band n71 | 665.5 MHz - 695.5 MHz | PCE | 0.20 | 0.32 | 0.41 | N/A |
| 802.11b | 2 412 MHz ~ 2 472 MHz | DTS | 0.58 | 0.27 | 0.67 | N/A |
| U-NII-1 | 5 180 MHz ~ 5 240 MHz | NII | N/A | N/A | N/A | N/A |
| U-NII-2A | 5 260 MHz ~ 5 320 MHz | NII | 0.39 | 0.17 | N/A | 1.81 |
| U-NII-2C | 5 500 MHz ~ 5 720 MHz | NII | 0.20 | 0.13 | N/A | 1.65 |
| U-NII-3 | 5 745 MHz ~ 5 825 MHz | NII | <0.10 | 0.19 | 0.36 | N/A |
| Bluetooth | 2 402 MHz ~ 2 480 MHz | DSS | 0.17 | <0.10 | 0.29 | N/A |
| Simultaneous SAR per KDB 690783 D01v01r03 | | | 1.40 | 1.58 | 1.59 | 3.71 |
| Date(s) of Tests: | 07/08/2020 ~ 08/24/2020 | | | | | |

4. Device Under Test Description

4.1 DUT specification

| Device Wireless specification overview | | |
|--|----------------|-----------------------------|
| Band & Mode | Operating Mode | Tx Frequency |
| CDMA/EVDO BC10 | Voice / Data | 817.90 MHz ~ 823.10 MHz |
| CDMA/EVDO BC0 | Voice / Data | 824.70 MHz ~ 848.31 MHz |
| PCS CDMA/EVDO | Voice / Data | 1 851.25 MHz ~ 1 908.75 MHz |
| GSM850 | Voice / Data | 824.2 MHz ~ 848.8 MHz |
| GSM1900 | Voice / Data | 1 850.2 MHz ~ 1 909.8 MHz |
| UMTS 850 | Voice / Data | 826.4 MHz ~ 846.6 MHz |
| UMTS 1700 | Voice / Data | 1 712.4 MHz ~ 1 752.6 MHz |
| UMTS 1900 | Voice / Data | 1 852.4 MHz ~ 1 907.6 MHz |
| LTE Band 2 (PCS) | Voice / Data | 1 850.7 MHz ~ 1 909.3 MHz |
| LTE Band 4 (AWS) | Voice / Data | 1 710.7 MHz ~ 1 754.3 MHz |
| LTE Band 5 (Cell) | Voice / Data | 824.7 MHz ~ 848.3 MHz |
| LTE Band 7 | Voice / Data | 2 502.5 MHz ~ 2 567.5 MHz |
| LTE Band 12 | Voice / Data | 699.7 MHz ~ 715.3 MHz |
| LTE Band 13 | Voice / Data | 779.5 MHz ~ 784.5 MHz |
| LTE Band 14 | Voice / Data | 790.5 MHz ~ 795.5 MHz |
| LTE Band 25 | Voice / Data | 1 850.7 MHz ~ 1 914.3 MHz |
| LTE Band 26 | Voice / Data | 814.7 MHz ~ 848.3 MHz |
| LTE Band 29 | Voice / Data | 717 MHz ~ 728 MHz |
| LTE Band 30 | Voice / Data | 2 307.5 MHz ~ 2 312.5 MHz |
| LTE TDD Band 38 | Voice / Data | 2 572.5 MHz ~ 2 617.5 MHz |
| LTE TDD Band 40 | Voice / Data | 2 302.5 MHz ~ 2 397.5 MHz |
| LTE TDD Band 41 | Voice / Data | 2 498.5 MHz ~ 2 687.5 MHz |
| LTE Band 66 (AWS) | Voice / Data | 1 710.7 MHz ~ 1 779.3 MHz |
| LTE Band 71 | Voice / Data | 665.5 MHz ~ 695.5 MHz |
| NR Band n2 (PCS) | Data | 1 852.5 MHz ~ 1 907.5 MHz |
| NR Band n5 (Cell) | Data | 826.5 MHz ~ 846.5 MHz |
| NR Band n25 | Data | 1852.5 MHz ~ 1912.5 MHz |
| NR Band n41 | Data | 2 506.02 MHz ~ 2 679.99 MHz |
| NR Band n66 | Data | 1 712.5 MHz ~ 1 777.5 MHz |
| NR Band n71 | Data | 665.5 MHz - 695.5 MHz |
| U-NII-1 | Voice / Data | 5 180 MHz ~ 5 240 MHz |
| U-NII-2A | Voice / Data | 5 260 MHz ~ 5 320 MHz |
| U-NII-2C | Voice / Data | 5 500 MHz ~ 5 720 MHz |
| U-NII-3 | Voice / Data | 5 745 MHz ~ 5 825 MHz |
| 2.4 GHz WLAN | Voice / Data | 2 412 MHz ~ 2 472 MHz |
| Bluetooth / LE 5.0 | Data | 2 402 MHz ~ 2 480 MHz |
| NFC | Data | 13.56 MHz |
| MST | Data | 555 Hz ~8.3 kHz |

| Device Description | | |
|--|--|---------------|
| Device Dimension | Overall (Length x Width): 158 mm x 73 mm Overall Diagonal: 171 mm Display Diagonal: 161 mm | |
| Battery Information | Standard (Li-ion Polymer Battery) | |
| | Battery Model Name: EB-BG781ABY(SDI) | |
| Ear-jack | Model Name: GH59-15252A (CRESYN) | |
| HW version | REV1.0 | |
| SW version | G781V.001 | |
| Device Serial Numbers | Mode | Serial Number |
| | LTE12/13/14/26/GSM850/NR n5/n71 | TFU0098H |
| | BT/WLAN | TG22077M |
| | LTE7/40/41/30/WCDMA B2/B4/CDMA BC10/0/NR n25 | TG22149M |
| | NR n66/CDMA BC1/GSM1900 | TG221425M |
| The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics are within operational tolerances expected for production units. | | |

4.2 Time-Averaging Algorithm for RF Exposure Compliance

The equipment under test (EUT) contains:

- a. Qualcomm® SM8250 modem supporting 2G/3G/4G WWAN technologies
- b. Qualcomm® SDX55M modem supporting 5G NR

Both of Qualcomm® SM8250 and SDX55M modems are enabled with Qualcomm® Smart Transmit feature. This feature performs time averaging algorithm in real time to control and manage transmitting power and ensure the time- averaged RF exposure is in compliance with FCC requirements all the time. Refer to Compliance Summary document for detailed description of Qualcomm® Smart Transmit feature
 The SM7250 is the first Qualcomm® Snapdragon™ 700 series processor with integrated 2G/3G/4G/5G modem. It implements the 5G NR standard for millimeter wave (mmW) bands and sub-6 GHz bands

This feature performs time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time. Refer to Compliance Summary document for detailed description of Qualcomm® Smart Transmit feature

WLAN operations are not enabled with Smart Transmit.

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_design_target or PD_design_target, below the predefined time-averaged power limit (i.e., Plimit for sub-6 radio, and input.power.limit for 5G NR), for each characterized technology and band.

| Exposure Scenario: | | Body-Worn | Phablet (Grip off) | Phablet (Grip on) | Head | Hotspot | Earjack inserted Mode | Maximum Tune-up Output Power* |
|----------------------|---------|---|--------------------|-------------------|-------|---------|-----------------------|-------------------------------|
| Averaging Volume: | | 1g | 10g | 10g | 1g | 1g | 10g | |
| Spacing: | | 15 mm | 8, 7, 13 mm | 0 mm | 0 mm | 10 mm | 0 mm | |
| DSI: | | 0 | | 1 | 2 | 3 | 4 | |
| Technology/Band | Antenna | Plimit corresponding to 1mW/g (SAR_design_target) | | | | | | Pmax |
| CDMA/EVDO BC10 | Main #1 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | |
| CDMA/EVDO BC0 | Main #1 | 24.80 | 24.80 | 24.80 | 24.80 | 24.80 | 24.80 | |
| PCS CDMA/EVDO BC1 | Main #1 | 24.30 | 18.00 | 24.30 | 18.00 | 18.00 | 24.30 | |
| GSM/GPRS/EDGE 850 | Main #1 | 25.48 | 22.48 | 25.48 | 25.48 | 25.48 | 25.48 | |
| GSM/GPRS/EDGE 1900 | Main #1 | 22.74 | 19.74 | 22.74 | 19.74 | 22.74 | 22.74 | |
| UMTS 850 | Main #1 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | 24.00 | |
| UMTS 1700 | Main #1 | 24.00 | 18.50 | 24.00 | 18.50 | 18.50 | 24.00 | |
| UMTS 1900 | Main #1 | 24.00 | 18.00 | 24.00 | 18.00 | 18.00 | 24.00 | |
| LTE Band 2 (PCS) | Main #1 | 24.00 | 18.00 | 24.00 | 18.00 | 18.00 | 24.00 | |
| LTE Band 4 (AWS) | Main #1 | 24.00 | 18.00 | 24.00 | 18.00 | 18.00 | 24.00 | |
| LTE Band 5/26 (Cell) | Main #1 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | |
| LTE Band 7 | Main #2 | 23.00 | 20.00 | 23.00 | 20.00 | 20.00 | 23.00 | |
| LTE Band 12 | Main #1 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | |
| LTE Band 13 | Main #1 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | |
| LTE Band 14 | Main #1 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | |
| LTE Band 25 | Main #1 | 24.00 | 18.00 | 24.00 | 18.00 | 18.00 | 24.00 | |
| LTE Band 26 | Main #1 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | |
| LTE Band 30 | Main #2 | 23.00 | 20.00 | 23.00 | 20.00 | 20.00 | .23.0 | |
| LTE TDD Band 38 | Main #2 | 21.50 | 21.00 | 21.50 | 21.00 | 21.00 | 21.50 | |
| LTE TDD Band 40 | Main #2 | 8.01 | 8.01 | 8.01 | 8.01 | 8.01 | 8.01 | |
| LTE TDD Band 41(PC3) | Main #2 | 21.50 | 21.00 | 21.50 | 21.00 | 21.00 | 21.50 | |
| LTE TDD Band 41(PC2) | Main #2 | 22.37 | 21.00 | 22.37 | 21.00 | 21.00 | 22.37 | |
| LTE Band 66 (AWS) | Main #1 | 24.00 | 18.00 | 24.00 | 18.00 | 18.00 | 24.00 | |
| LTE Band 71 | Main #1 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | |
| NR Band n2 (PCS) | Main #1 | 24.50 | 18.50 | 24.50 | 18.50 | 18.50 | 24.50 | |
| NR Band n5 (Cell) | Main #1 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | |
| NR Band n25 | Main #1 | 24.50 | 18.50 | 24.50 | 18.50 | 18.50 | 24.50 | |
| NR Band n41 | Main #2 | 17.50 | 15.00 | 17.50 | 15.00 | 15.00 | 17.50 | |
| NR Band n66 | Main #1 | 24.50 | 19.00 | 24.50 | 19.00 | 19.00 | 24.50 | |
| NR Band n71 | Main #1 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | 24.50 | |

Smart Transmit allows the device to transmit at higher power instantaneously, as high as P_{max} , when needed, but enforces power limiting to maintain time-averaged transmit power to P_{limit} . Below table shows P_{limit} EFS settings and maximum tune up output power P_{max} configured for this EUT for various transmit conditions (Device State Index DSI). Note that the device uncertainty for sub-6GHz WWAN is 1.0dB for this EUT.

*Note all P_{limit} EFS and maximum tune up output power P_{max} levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of TDD modulation schemes (for e.g., GSM).

*Maximum tune up output power P_{max} is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum Tune up output power + 1dB device design uncertainty. The maximum time-averaged output power (dBm) for any 2G/3G/4G WWAN technology, band, and DSI = minimum of "P_{limit} EFS" and "Maximum tune up output power P_{max} " + 1dB device uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D01v06.

The purpose of this report (Part 1 test) is to demonstrate that the EUT meets FCC SAR limits when transmitting in static transmission scenario at maximum allowable time-averaged power levels.

Measurement Condition: All conducted power and SAR measurements in this report were performed by setting Reserve_power_margin (Smart Transmit EFS entry) to 0dB.

4.3 Power Reduction for SAR

This device uses an independent fixed level power reduction mechanism for WLAN operations when 5G NR is active and also during all voice or VoIP held to ear scenarios. Per FCC Guidance, the held-to-ear exposure conditions were evaluated at reduced power according to the head SAR positions described in IEEE 1528-2013. Detailed descriptions of the power reduction mechanism are included in the operational description

The reduced powers for the power reduction mechanisms were conformed via conducted power measurements at the RF Port

4.4 Nominal and Maximum Output Power Specifications

This device operates using the following maximum output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB publication 447498 D01v06.

4.4.1 2G/3G/4G/5G Nominal and Maximum Output Power

(tolerance : -1.5 dB ~ +1.0 dB)

A. GSM Modes

| GSM/GPRS/EDGE 850 | | | | | | | | | | |
|--|-------------------|----------------------|-------------------------------------|--------------|--------------|--------------|--------------------------------------|--------------|--------------|--------------|
| Power Level Device State Index | | Voice (in dBm) | Data-Burst Average GMSK (in dBm) | | | | Data-Burst Average 8-PSK (in dBm) | | | |
| | | | 1Tx Slot | 1Tx Slots | 2Tx Slots | 3Tx Slots | 4Tx Slots | 1Tx Slots | 2Tx Slots | 3Tx Slots |
| DSI = 0 (Body-Worm or Phablet Max) | Max allowed power | 33.5 | 33.5 | 32.5 | 30.5 | 28.5 | 28 | 26 | 24.5 | 23.5 |
| | Nominal Power | 32.5 | 32.5 | 31.5 | 29.5 | 27.5 | 27 | 25 | 23.5 | 22.5 |
| DSI = 1 (Phablet Reduced, Grip) | Max allowed power | 31 | 31 | 29.5 | 27.5 | 25.5 | 28 | 26 | 24.5 | 23.5 |
| | Nominal Power | 30 | 30 | 28.5 | 26.5 | 24.5 | 27 | 25 | 23.5 | 22.5 |
| DSI = 2 (Head) | Max allowed power | 33.5 | 33.5 | 32.5 | 30.5 | 28.5 | 28 | 26 | 24.5 | 23.5 |
| | Nominal Power | 32.5 | 32.5 | 31.5 | 29.5 | 27.5 | 27 | 25 | 23.5 | 22.5 |
| DSI = 3 (Hotspot) | Max allowed power | 33.5 | 33.5 | 32.5 | 30.5 | 28.5 | 28 | 26 | 24.5 | 23.5 |
| | Nominal Power | 32.5 | 32.5 | 31.5 | 29.5 | 27.5 | 27 | 25 | 23.5 | 22.5 |
| DSI = 4 (EARJACK) | Max allowed power | 33.5 | 33.5 | 32.5 | 30.5 | 28.5 | 28 | 26 | 24.5 | 23.5 |
| | Nominal Power | 32.5 | 32.5 | 31.5 | 29.5 | 27.5 | 27 | 25 | 23.5 | 22.5 |

| GSM/GPRS/EDGE 1900 | | | | | | | | | | |
|---------------------------------------|-------------------|----------------------|-------------------------------------|--------------|--------------|--------------|--------------------------------------|--------------|--------------|--------------|
| Power Level Device State Index | | Voice (in dBm) | Data-Burst Average GMSK (in dBm) | | | | Data-Burst Average 8-PSK (in dBm) | | | |
| | | | 1Tx Slot | 1Tx Slots | 2Tx Slots | 3Tx Slots | 4Tx Slots | 1Tx Slots | 2Tx Slots | 3Tx Slots |
| DSI = 0 (Body-Worm or Phablet Max) | Max allowed power | 31 | 31 | 29.5 | 28 | 26 | 25.5 | 24.5 | 22.5 | 21.5 |
| | Nominal Power | 30 | 30 | 28.5 | 27 | 25 | 24.5 | 23.5 | 21.5 | 20.5 |
| DSI = 1 (Phablet Reduced, Grip) | Max allowed power | 28 | 28 | 26.5 | 25 | 23 | 25.5 | 24.5 | 22.5 | 21.5 |
| | Nominal Power | 27 | 27 | 25.5 | 24 | 22 | 24.5 | 23.5 | 21.5 | 20.5 |
| DSI = 2 (Head) | Max allowed power | 31 | 31 | 29.5 | 28 | 26 | 25.5 | 24.5 | 22.5 | 21.5 |
| | Nominal Power | 30 | 30 | 28.5 | 27 | 25 | 24.5 | 23.5 | 21.5 | 20.5 |
| DSI = 3 (Hotspot) | Max allowed power | 28 | 28 | 26.5 | 25 | 23 | 25.5 | 24.5 | 22.5 | 21.5 |
| | Nominal Power | 27 | 27 | 25.5 | 24 | 22 | 24.5 | 23.5 | 21.5 | 20.5 |
| DSI = 4 (EARJACK) | Max allowed power | 31 | 31 | 29.5 | 28 | 26 | 25.5 | 24.5 | 22.5 | 21.5 |
| | Nominal Power | 30 | 30 | 28.5 | 27 | 25 | 24.5 | 23.5 | 21.5 | 20.5 |

B. CDMA/EVDO(1X)

| CDMA BC0 | | | |
|---------------------------------------|-------------------|------------------------------------|------------------------------------|
| Power Level Device State Index | | CDMA | EVDO Rev 0,A |
| | | Max. Modulated Average (in dBm) | Max. Modulated Average (in dBm) |
| DSI = 0 (Body-Worm or Phablet Max) | Max allowed power | 25.8 | 25.8 |
| | Nominal Power | 24.8 | 24.8 |
| DSI = 1 (Phablet Reduced, Grip) | Max allowed power | 25.8 | 25.8 |
| | Nominal Power | 24.8 | 24.8 |
| DSI = 2 (Head) | Max allowed power | 25.8 | 25.8 |
| | Nominal Power | 24.8 | 24.8 |
| DSI = 3 (Hotspot) | Max allowed power | 25.8 | 25.8 |
| | Nominal Power | 24.8 | 24.8 |
| DSI = 4 (EARJACK) | Max allowed power | 25.8 | 25.8 |
| | Nominal Power | 24.8 | 24.8 |

| CDMA BC1 | | | |
|---------------------------------------|-------------------|------------------------------------|------------------------------------|
| Power Level Device State Index | | CDMA | EVDO Rev 0,A |
| | | Max. Modulated Average (in dBm) | Max. Modulated Average (in dBm) |
| DSI = 0 (Body-Worm or Phablet Max) | Max allowed power | 25.3 | 25.3 |
| | Nominal Power | 24.3 | 24.3 |
| DSI = 1 (Phablet Reduced, Grip) | Max allowed power | 19.0 | 19.0 |
| | Nominal Power | 18.0 | 18.0 |
| DSI = 2 (Head) | Max allowed power | 25.3 | 25.3 |
| | Nominal Power | 24.3 | 24.3 |
| DSI = 3 (Hotspot) | Max allowed power | 19.0 | 19.0 |
| | Nominal Power | 18.0 | 18.0 |
| DSI = 4 (EARJACK) | Max allowed power | 19.0 | 19.0 |
| | Nominal Power | 18.0 | 18.0 |

| CDMA BC10 | | | |
|---------------------------------------|-------------------|------------------------------------|------------------------------------|
| Power Level Device State Index | | CDMA | EVDO Rev 0,A |
| | | Max. Modulated Average (in dBm) | Max. Modulated Average (in dBm) |
| DSI = 0 (Body-Worm or Phablet Max) | Max allowed power | 25.5 | 25.5 |
| | Nominal Power | 24.5 | 24.5 |
| DSI = 1 (Phablet Reduced, Grip) | Max allowed power | 25.5 | 25.5 |
| | Nominal Power | 24.5 | 24.5 |
| DSI = 2 (Head) | Max allowed power | 25.5 | 25.5 |
| | Nominal Power | 24.5 | 24.5 |
| DSI = 3 (Hotspot) | Max allowed power | 25.5 | 25.5 |
| | Nominal Power | 24.5 | 24.5 |
| DSI = 4 (EARJACK) | Max allowed power | 25.5 | 25.5 |
| | Nominal Power | 24.5 | 24.5 |

C. UMTS

| UMTS Band 5 (850MHz) | | | | | |
|--|-------------------|---|---------------------|---------------------|------------------------|
| Power Level Device State Index | | Modulated Average Output Power (in dBm) | | | |
| | | WCDMA 3GPP Rel 99 | HSDPA 3GPP Rel 5 | HSUPA 3GPP Rel 6 | DC-HSDPA 3GPP Rel.8 |
| DSI = 0 (Body-Worm or Phablet Max) | Max allowed power | 25.0 | 23.5 | 23.5 | 23.5 |
| | Nominal Power | 24.0 | 22.5 | 22.5 | 22.5 |
| DSI = 1 (Phablet Reduced, Grip) | Max allowed power | 25.0 | 23.5 | 23.5 | 23.5 |
| | Nominal Power | 24.0 | 22.5 | 22.5 | 22.5 |
| DSI = 2 (Head) | Max allowed power | 25.0 | 23.5 | 23.5 | 23.5 |
| | Nominal Power | 24.0 | 22.5 | 22.5 | 22.5 |
| DSI = 3 (Hotspot) | Max allowed power | 25.0 | 23.5 | 23.5 | 23.5 |
| | Nominal Power | 24.0 | 22.5 | 22.5 | 22.5 |
| DSI = 4 (EARJACK) | Max allowed power | 25.0 | 23.5 | 23.5 | 23.5 |
| | Nominal Power | 24.0 | 22.5 | 22.5 | 22.5 |

| UMTS Band 4 (1700MHz) | | | | | |
|--|-------------------|---|---------------------|---------------------|------------------------|
| Power Level Device State Index | | Modulated Average Output Power (in dBm) | | | |
| | | WCDMA 3GPP Rel 99 | HSDPA 3GPP Rel 5 | HSUPA 3GPP Rel 6 | DC-HSDPA 3GPP Rel.8 |
| DSI = 0 (Body-Worm or Phablet Max) | Max allowed power | 25 | 24.5 | 24.5 | 24.5 |
| | Nominal Power | 24 | 23.5 | 23.5 | 23.5 |
| DSI = 1 (Phablet Reduced, Grip) | Max allowed power | 19.5 | 18.5 | 18.5 | 18.5 |
| | Nominal Power | 18.5 | 17.5 | 17.5 | 17.5 |
| DSI = 2 (Head) | Max allowed power | 25 | 24.5 | 24.5 | 24.5 |
| | Nominal Power | 24 | 23.5 | 23.5 | 23.5 |
| DSI = 3 (Hotspot) | Max allowed power | 19.5 | 18.5 | 18.5 | 18.5 |
| | Nominal Power | 18.5 | 17.5 | 17.5 | 17.5 |
| DSI = 4 (EARJACK) | Max allowed power | 19.5 | 18.5 | 18.5 | 18.5 |
| | Nominal Power | 18.5 | 17.5 | 17.5 | 17.5 |

| UMTS Band 2 (1900MHz) | | | | | |
|--|-------------------|---|---------------------|---------------------|------------------------|
| Power Level Device State Index | | Modulated Average Output Power (in dBm) | | | |
| | | WCDMA 3GPP Rel 99 | HSDPA 3GPP Rel 5 | HSUPA 3GPP Rel 6 | DC-HSDPA 3GPP Rel.8 |
| DSI = 0 (Body-Worm or Phablet Max) | Max allowed power | 25 | 24 | 24 | 24 |
| | Nominal Power | 24 | 23 | 23 | 23 |
| DSI = 1 (Phablet Reduced, Grip) | Max allowed power | 19 | 18.5 | 18.5 | 18.5 |
| | Nominal Power | 18 | 17.5 | 17.5 | 17.5 |
| DSI = 2 (Head) | Max allowed power | 25 | 24 | 24 | 24 |
| | Nominal Power | 24 | 23 | 23 | 23 |
| DSI = 3 (Hotspot) | Max allowed power | 19 | 18.5 | 18.5 | 18.5 |
| | Nominal Power | 18 | 17.5 | 17.5 | 17.5 |
| DSI = 4 (EARJACK) | Max allowed power | 19 | 18.5 | 18.5 | 18.5 |
| | Nominal Power | 18 | 17.5 | 17.5 | 17.5 |

D. LTE

| Mode / Band | | Modulated Average Output Power (in dBm) | | | | | |
|-------------------|-------------------|---|---|--|-------------------|----------------------|----------------------|
| | | Pmax | DSI = 0 (Body-Worn or Phablet Max) | DSI = 1 (Phablet Reduced, Grip) | DSI = 2 (Head) | DSI = 3 (Hotspot) | DSI = 4 (EARJACK) |
| Band 2 | Max allowed power | 25 | 25 | 19 | 25 | 19 | 19 |
| | Nominal Power | 24 | 24 | 18 | 24 | 18 | 18 |
| Band 4 | Max allowed power | 25 | 25 | 19 | 25 | 19 | 19 |
| | Nominal Power | 24 | 24 | 18 | 24 | 18 | 18 |
| Band 5 | Max allowed power | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 |
| | Nominal Power | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 |
| Band 7 | Max allowed power | 24 | 24 | 21 | 24 | 21 | 21 |
| | Nominal Power | 23 | 23 | 20 | 23 | 20 | 20 |
| Band 12 | Max allowed power | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 |
| | Nominal Power | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 |
| Band 13 | Max allowed power | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 |
| | Nominal Power | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 |
| Band 14 | Max allowed power | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 |
| | Nominal Power | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 |
| Band 25 | Max allowed power | 25 | 25 | 19 | 25 | 19 | 19 |
| | Nominal Power | 24 | 24 | 18 | 24 | 18 | 18 |
| Band 26 | Max allowed power | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 |
| | Nominal Power | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 |
| Band 30 | Max allowed power | 24 | 24 | 21 | 24 | 21 | 21 |
| | Nominal Power | 23 | 23 | 20 | 23 | 20 | 20 |
| Band 38 | Max allowed power | 24.5 | 24.5 | 24 | 24.5 | 24 | 24 |
| | Nominal Power | 23.5 | 23.5 | 23 | 23.5 | 23 | 23 |
| Band 40 | Max allowed power | 11 | 11 | 11 | 11 | 11 | 11 |
| | Nominal Power | 10 | 10 | 10 | 10 | 10 | 10 |
| Band 41 (PC 3) | Max allowed power | 24.5 | 24.5 | 24 | 24.5 | 24 | 24 |
| | Nominal Power | 23.5 | 23.5 | 23 | 23.5 | 23 | 23 |
| Band 41 (PC 2) | Max allowed power | 27 | 27 | 24 | 27 | 24 | 24 |
| | Nominal Power | 26 | 26 | 23 | 26 | 23 | 23 |
| Band 66 | Max allowed power | 25 | 25 | 19 | 25 | 19 | 19 |
| | Nominal Power | 24 | 24 | 18 | 24 | 18 | 18 |
| Band 71 | Max allowed power | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 |
| | Nominal Power | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 |

E. 5G NR SUB 6

| Mode / Band | | Modulated Average Output Power (in dBm) | | | | | |
|-------------|-------------------|---|---|-------------------|----------------------|---------------------------------|----------------------|
| | | Pmax | DSI = 0 (Body-Worn or Phablet Max) | DSI = 1 (Head) | DSI = 2 (Hotspot) | DSI = 3 (Phablet Reduced) | DSI = 4 (EARJACK) |
| n2 | Max allowed power | 25.5 | 25.5 | 19.5 | 25.5 | 19.5 | 19.5 |
| | Nominal Power | 24.5 | 24.5 | 18.5 | 24.5 | 18.5 | 18.5 |
| n5 | Max allowed power | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 |
| | Nominal Power | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 |
| n25 | Max allowed power | 25.5 | 25.5 | 19.5 | 25.5 | 19.5 | 19.5 |
| | Nominal Power | 24.5 | 24.5 | 18.5 | 24.5 | 18.5 | 18.5 |
| n41 | Max allowed power | 24.5 | 24.5 | 22 | 24.5 | 22 | 22 |
| | Nominal Power | 23.5 | 23.5 | 21 | 23.5 | 21 | 21 |
| n66 | Max allowed power | 25.5 | 25.5 | 19.5 | 25.5 | 19.5 | 19.5 |
| | Nominal Power | 24.5 | 24.5 | 18.5 | 24.5 | 18.5 | 18.5 |
| n71 | Max allowed power | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 |
| | Nominal Power | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 |

4.4.2 Maximum 2.4 GHz, 5 GHz WIFI output power

| Mode | Band | SISO(ANT 1) | | | | | | SISO(ANT 2) | | | | | | MIMO | | | | | |
|-----------------|---------|-------------|-------------------------|-------------------------|-------------------------|----|---------------------|-------------|---------------------|-------------------------|-------------------------|----|--|------|-------------------------|------------------------|------------------------|----|--|
| | | a | b | g | n | ac | ax (SU) | a | b | g | n | ac | ax (SU) | a | b | g | n | ac | ax (SU) |
| 2.4GHz | 2.45GHz | | 18 Ch12, 13 :7 | 17 Ch12, 13 :5 | 17 Ch12, 13 :5 | | 15 Ch12,1 3:5 | | 18 Ch12, 13:7 | 17 Ch12, 13 :5 | 17 Ch12, 13 :5 | | 16.5 Ch12 : 6.5 Ch13 : 6.0 | | 21 Ch12, 13 10 | 20 Ch12, 13 8 | 20 Ch12, 13 8 | | 18.8 Ch12 : 8.8 Ch13 : 8.5 |
| 5GHZ (20MHz) | 5200MHz | 16 | | | 16 | 16 | 15 | 16 | | | 16 | 16 | 14.5 | 19 | | | 19 | 19 | 17.8 |
| | 5300MHz | 16 | | | 16 | 16 | 15 | 16 | | | 16 | 16 | 14.5 | 19 | | | 19 | 19 | 17.8 |
| | 5500MHz | 15 | | | 16 | 16 | 15 | 15 | | | 16 | 16 | 14.5 | 18 | | | 19 | 19 | 17.8 |
| | 5800MHz | 16 | | | 16 | 16 | 15 | 16 | | | 16 | 16 | 14.5 | 19 | | | 19 | 19 | 17.8 |
| 5GHZ (40MHz) | 5200MHz | | | | 15 | 15 | 14 | | | | 15 | 15 | 14 | | | | 18 | 18 | 17 |
| | 5300MHz | | | | 15 | 15 | 14 | | | | 15 | 15 | 14 | | | | 18 | 18 | 17 |
| | 5500MHz | | | | 15 | 15 | 14 | | | | 15 | 15 | 14 | | | | 18 | 18 | 17 |
| | 5800MHz | | | | 15 | 15 | 14 | | | | 15 | 15 | 13 | | | | 18 | 18 | 16.5 |
| 5GHZ (80MHz) | 5200MHz | | | | | 14 | 13 | | | | | 14 | 13 | | | | | 17 | 16 |
| | 5300MHz | | | | | 14 | 13 | | | | | 14 | 13 | | | | | 17 | 16 |
| | 5500MHz | | | | | 14 | 13 | | | | | 14 | 13 | | | | | 17 | 16 |
| | 5800MHz | | | | | 14 | 13 | | | | | 14 | 12 | | | | | 17 | 15.5 |

(Upper tolerance: target +1.0dB)

4.4.3 Reduced WLAN Power – receiver Active

| Mode | Band | SISO(ANT 1) | | | | | | SISO(ANT 2) | | | | | | MIMO | | | | | |
|-----------------|---------|-------------|------------------------|------------------------|------------------------|----|------------------------|-------------|------------------------|------------------------|------------------------|----|------------------------|------|-------------------------|-------------------------|------------------------|----|------------------------|
| | | a | b | g | n | ac | ax (SU) | a | b | g | n | ac | ax (SU) | a | b | g | n | ac | ax (SU) |
| 2.4GHz | 2.45GHz | | 12 Ch12 ,13 7 | 12 Ch12 ,13 7 | 12 Ch12 ,13 5 | | 12 CH12 ,13 5 | | 12 Ch12, 13 7 | 12 Ch12, 13 7 | 12 Ch12, 13 5 | | 12 CH12 ,13 5 | | 15 Ch12 ,13 10 | 15 Ch12, 13 10 | 15 Ch12, 13 8 | | 15 Ch12, 13 8 |
| 5GHZ (20MHz) | 5200MHz | 10 | | | 10 | 10 | 10 | 10 | | | 10 | 10 | 10 | 13 | | | 13 | 13 | 13 |
| | 5300MHz | 10 | | | 10 | 10 | 10 | 10 | | | 10 | 10 | 10 | 13 | | | 13 | 13 | 13 |
| | 5500MHz | 10 | | | 10 | 10 | 10 | 10 | | | 10 | 10 | 10 | 13 | | | 13 | 13 | 13 |
| | 5800MHz | 10 | | | 10 | 10 | 10 | 10 | | | 10 | 10 | 10 | 13 | | | 13 | 13 | 13 |
| 5GHZ (40MHz) | 5200MHz | | | | 10 | 10 | 10 | | | | 10 | 10 | 10 | | | | 13 | 13 | 13 |
| | 5300MHz | | | | 10 | 10 | 10 | | | | 10 | 10 | 10 | | | | 13 | 13 | 13 |
| | 5500MHz | | | | 10 | 10 | 10 | | | | 10 | 10 | 10 | | | | 13 | 13 | 13 |
| | 5800MHz | | | | 10 | 10 | 10 | | | | 10 | 10 | 10 | | | | 13 | 13 | 13 |
| 5GHZ (80MHz) | 5200MHz | | | | | 10 | 10 | | | | | 10 | 10 | | | | | 13 | 13 |
| | 5300MHz | | | | | 10 | 10 | | | | | 10 | 10 | | | | | 13 | 13 |
| | 5500MHz | | | | | 10 | 10 | | | | | 10 | 10 | | | | | 13 | 13 |
| | 5800MHz | | | | | 10 | 10 | | | | | 10 | 10 | | | | | 13 | 13 |

(Upper tolerance: target +1.0dB)

4.4.4 Maximum 2.4 GHz, 5 GHz WIFI output power - RSDB

| Mode | Band | SISO(ANT 1) | | | | | | SISO(ANT 2) | | | | | | MIMO | | | | | |
|-----------------|---------|-------------|-------------------------|-------------------------|-------------------------|----|---------------------|-------------|---------------------|-------------------------|-------------------------|----|--|------|-------------------------|------------------------|------------------------|----|--|
| | | a | b | g | n | ac | ax (SU) | a | b | g | n | ac | ax (SU) | a | b | g | n | ac | ax (SU) |
| 2.4GHz | 2.45GHz | | 18 Ch12, 13 :7 | 17 Ch12, 13 :5 | 17 Ch12, 13 :5 | | 15 Ch12,1 3:5 | | 18 Ch12, 13:7 | 17 Ch12, 13 :5 | 17 Ch12, 13 :5 | | 16.5 Ch12 : 6.5 Ch13 : 6.0 | | 21 Ch12, 13 10 | 20 Ch12, 13 8 | 20 Ch12, 13 8 | | 18.8 Ch12 : 8.8 Ch13 : 8.5 |
| 5GHZ (20MHz) | 5200MHz | 16 | | | 16 | 16 | 15 | 16 | | | 16 | 16 | 14.5 | 19 | | | 19 | 19 | 17.8 |
| | 5300MHz | 16 | | | 16 | 16 | 15 | 16 | | | 16 | 16 | 14.5 | 19 | | | 19 | 19 | 17.8 |
| | 5500MHz | 15 | | | 16 | 16 | 15 | 15 | | | 16 | 16 | 14.5 | 18 | | | 19 | 19 | 17.8 |
| | 5800MHz | 16 | | | 16 | 16 | 15 | 16 | | | 16 | 16 | 14.5 | 19 | | | 19 | 19 | 17.8 |
| 5GHZ (40MHz) | 5200MHz | | | | 15 | 15 | 14 | | | | 15 | 15 | 14 | | | | 18 | 18 | 17 |
| | 5300MHz | | | | 15 | 15 | 14 | | | | 15 | 15 | 14 | | | | 18 | 18 | 17 |
| | 5500MHz | | | | 15 | 15 | 14 | | | | 15 | 15 | 14 | | | | 18 | 18 | 17 |
| | 5800MHz | | | | 15 | 15 | 14 | | | | 15 | 15 | 13 | | | | 18 | 18 | 16.5 |
| 5GHZ (80MHz) | 5200MHz | | | | | 14 | 13 | | | | | 14 | 13 | | | | | 17 | 16 |
| | 5300MHz | | | | | 14 | 13 | | | | | 14 | 13 | | | | | 17 | 16 |
| | 5500MHz | | | | | 14 | 13 | | | | | 14 | 13 | | | | | 17 | 16 |
| | 5800MHz | | | | | 14 | 13 | | | | | 14 | 12 | | | | | 17 | 15.5 |

(Upper tolerance: target +1.0dB)

4.4.5 Reduced WLAN Power - RSDB with RCV on

| Mode | Band | SISO(ANT 1) | | | | | | SISO(ANT 2) | | | | | | MIMO | | | | | |
|-----------------|---------|-------------|------------------------|------------------------|------------------------|----|------------------------|-------------|------------------------|------------------------|------------------------|----|------------------------|------|-------------------------|-------------------------|------------------------|----|------------------------|
| | | a | b | g | n | ac | ax (SU) | a | b | g | n | ac | ax (SU) | a | b | g | n | ac | ax (SU) |
| 2.4GHz | 2.45GHz | | 12 Ch12, 13 7 | 12 Ch12, 13 7 | 12 Ch12, 13 5 | | 12 CH12 ,13 5 | | 12 Ch12, 13 7 | 12 Ch12, 13 7 | 12 Ch12, 13 5 | | 12 CH12 ,13 5 | | 15 Ch12, 13 10 | 15 Ch12, 13 10 | 15 Ch12, 13 8 | | 15 Ch12, 13 8 |
| 5GHZ (20MHz) | 5200MHz | 10 | | | 10 | 10 | 10 | 10 | | | 10 | 10 | 10 | 13 | | | 13 | 13 | 13 |
| | 5300MHz | 10 | | | 10 | 10 | 10 | 10 | | | 10 | 10 | 10 | 13 | | | 13 | 13 | 13 |
| | 5500MHz | 10 | | | 10 | 10 | 10 | 10 | | | 10 | 10 | 10 | 13 | | | 13 | 13 | 13 |
| | 5800MHz | 10 | | | 10 | 10 | 10 | 10 | | | 10 | 10 | 10 | 13 | | | 13 | 13 | 13 |
| 5GHZ (40MHz) | 5200MHz | | | | 10 | 10 | 10 | | | | 10 | 10 | 10 | | | | 13 | 13 | 13 |
| | 5300MHz | | | | 10 | 10 | 10 | | | | 10 | 10 | 10 | | | | 13 | 13 | 13 |
| | 5500MHz | | | | 10 | 10 | 10 | | | | 10 | 10 | 10 | | | | 13 | 13 | 13 |
| | 5800MHz | | | | 10 | 10 | 10 | | | | 10 | 10 | 10 | | | | 13 | 13 | 13 |
| 5GHZ (80MHz) | 5200MHz | | | | | 10 | 10 | | | | | 10 | 10 | | | | | 13 | 13 |
| | 5300MHz | | | | | 10 | 10 | | | | | 10 | 10 | | | | | 13 | 13 |
| | 5500MHz | | | | | 10 | 10 | | | | | 10 | 10 | | | | | 13 | 13 |
| | 5800MHz | | | | | 10 | 10 | | | | | 10 | 10 | | | | | 13 | 13 |

(Upper tolerance: target +1.0dB)

4.4.6 Reduced WLAN Power - with mmWave Antenna Active

| Mode | Band | SISO(ANT 1) | | | | | | SISO(ANT 2) | | | | | | MIMO | | | | | |
|--------------|---------|-------------|----------|----------|----------|----|----------|-------------|----------|----------|----------|----|----------|------|----------|----------|----------|----|----------|
| | | a | b | g | n | ac | ax (SU) | a | b | g | n | ac | ax (SU) | a | b | g | n | ac | ax (SU) |
| 2.4GHz | 2.45GHz | | 12 | 12 | 12 | | 12 | | 12 | 12 | 12 | | 12 | | 15 | 15 | 15 | | 15 |
| | | | Ch12, 13 | Ch12, 13 | Ch12, 13 | | CH12, 13 | | Ch12, 13 | Ch12, 13 | Ch12, 13 | | CH12, 13 | | Ch12, 13 | Ch12, 13 | Ch12, 13 | | Ch12, 13 |
| | | | 7 | 7 | 5 | | 5 | | 7 | 7 | 5 | | 5 | | 10 | 10 | 8 | | 8 |
| 5GHZ (20MHz) | 5200MHz | 10 | | | 10 | 10 | 10 | 10 | | | 10 | 10 | 10 | 13 | | | 13 | 13 | 13 |
| | 5300MHz | 10 | | | 10 | 10 | 10 | 10 | | | 10 | 10 | 10 | 13 | | | 13 | 13 | 13 |
| | 5500MHz | 10 | | | 10 | 10 | 10 | 10 | | | 10 | 10 | 10 | 13 | | | 13 | 13 | 13 |
| | 5800MHz | 10 | | | 10 | 10 | 10 | 10 | | | 10 | 10 | 10 | 13 | | | 13 | 13 | 13 |
| 5GHZ (40MHz) | 5200MHz | | | | 10 | 10 | 10 | | | | 10 | 10 | 10 | | | | 13 | 13 | 13 |
| | 5300MHz | | | | 10 | 10 | 10 | | | | 10 | 10 | 10 | | | | 13 | 13 | 13 |
| | 5500MHz | | | | 10 | 10 | 10 | | | | 10 | 10 | 10 | | | | 13 | 13 | 13 |
| | 5800MHz | | | | 10 | 10 | 10 | | | | 10 | 10 | 10 | | | | 13 | 13 | 13 |
| 5GHZ (80MHz) | 5200MHz | | | | | 10 | 10 | | | | | 10 | 10 | | | | | 13 | 13 |
| | 5300MHz | | | | | 10 | 10 | | | | | 10 | 10 | | | | | 13 | 13 |
| | 5500MHz | | | | | 10 | 10 | | | | | 10 | 10 | | | | | 13 | 13 |
| | 5800MHz | | | | | 10 | 10 | | | | | 10 | 10 | | | | | 13 | 13 |

(Upper tolerance: target +1.0dB)

4.4.7 802.11ax RU Tx Power

| Tone s | SISO (ANT1) /in dBm | | | | SISO (ANT2) /in dBm | | | | MIMO (ALL) /in dBm | | | |
|--------|---------------------|---------------|---------------|---------------|------------------------------|----------------------|------------------------|------------------------|----------------------------------|------------------------|------------------------|------------------------|
| | 2.4G | 5G/20Mhz | 5G/40Mhz | 5G/80Mhz | 2.4G | 5G/20Mhz | 5G/40Mhz | 5G/80Mhz | 2.4G | 5G/20Mhz | 5G/40Mhz | 5G/80Mhz |
| | Ch & RU index | Ch & RU index | Ch & RU index | Ch & RU index | Ch & RU index | Ch & RU index | Ch & RU index | Ch & RU index | Ch & RU index | Ch & RU index | Ch & RU index | Ch & RU index |
| 26T | 12.5 Ch12,13 : 5 | 8 | 8 | 8 | 14 Ch12 : 6.5 Ch13 : 6 | 7.5 (UNII 3: 7) | 8 (UNII 3: 7) | 8 (UNII 3: 7) | 16.3 Ch12 : 8.8 Ch13 : 8.5 | 10.8 (UNII 3: 10.5) | 11 (UNII 3: 10.5) | 11 (UNII 3: 10.5) |
| 52T | 13.5 Ch12,13 : 5 | 9 | 9 | 9 | 15 Ch12 : 6.5 Ch13 : 6 | 8.5 (UNII 3: 8) | 9 (UNII 3: 8) | 9 (UNII 3: 8) | 17.3 Ch12 : 8.8 Ch13 : 8.5 | 11.8 (UNII 3: 11.5) | 12 (UNII 3: 11.5) | 12 (UNII 3: 11.5) |
| 106T | 14 Ch12,13 : 5 | 11 | 11 | 10 | 15.5 Ch12,13 : 6.5 | 10.5 (UNII 3: 10) | 11 (UNII 3: 10) | 10 (UNII 3: 9) | 17.8 Ch12,13 : 8.8 | 13.8 (UNII 3: 13.5) | 14 (UNII 3: 13.5) | 13 (UNII 3: 12.5) |
| 242T | 15 Ch12,13 : 5 | 13 | 13 | 11 | 16.5 Ch12,13 : 6.5 | 12.5 (UNII 3: 12) | 13 (UNII 3: 12) | 11 (UNII 3: 9.5) | 18.8 Ch12,13 : 8.8 | 15.8 (UNII 3: 15.5) | 16 (UNII 3: 15.5) | 14 (UNII 3: 13.3) |
| 484T | | | 13.5 | 11.5 | | | 13.5 (UNII 3: 12.5) | 11.5 (UNII 3: 10.5) | | | 16.5 (UNII 3: 16.0) | 14.5 (UNII 3: 14.0) |
| 996T | | | | 12 | | | 12 (UNII 3: 11.5) | | | | | 15 (UNII 3: 14.8) |

(Upper tolerance: target +1.0dB)

4.4.8 Reduced Power 11ax RU Tx power Tables – RCV on

| Ton es | SISO (ANT1) /in dBm | | | | SISO (ANT2) /in dBm | | | | MIMO (ALL) /in dBm | | | |
|-----------|---------------------|------------------|------------------|------------------|---------------------|------------------|------------------|------------------|--------------------|------------------|------------------|------------------|
| | 2.4G | 5G/20Mh z | 5G/40Mhz | 5G/80Mh z | 2.4G | 5G/20Mh z | 5G/40Mh z | 5G/80Mh z | 2.4G | 5G/20Mhz | 5G/40Mh z | 5G/80Mh z |
| | Ch & RU index | Ch & RU index | Ch & RU index | Ch & RU index | Ch & RU index | Ch & RU index | Ch & RU index | Ch & RU index | Ch & RU index | Ch & RU index | Ch & RU index | Ch & RU index |
| 26T | 12 Ch12,13 : 5 | 8 | 8 | 8 | 12 Ch12,13 : 5 | 8 | 8 | 8 | 15 Ch12,13 : 8 | 11 | 11 | 11 |
| 52T | 12 Ch12,13 : 5 | 9 | 9 | 9 | 12 Ch12,13 : 5 | 9 | 9 | 9 | 15 Ch12,13 : 8 | 12 | 12 | 12 |
| 106 T | 12 Ch12,13 : 5 | 10 | 10 | 10 | 12 Ch12,13 : 5 | 10 | 10 | 10 | 15 Ch12,13 : 8 | 13 | 13 | 13 |
| 242 T | 12 Ch12,13 : 5 | 10 | 10 | 10 | 12 Ch12,13 : 5 | 10 | 10 | 10 | 15 Ch12,13 : 8 | 13 | 13 | 13 |
| 484 T | | | 10 | 10 | | | 10 | 10 | | | 13 | 13 |
| 996 T | | | | 10 | | | | 10 | | | | 13 |

(Upper tolerance: target +1.0dB)

4.4.9 Reduced Power 11ax RU Tx power Tables - RSDB

| Mode | Band | SISO(ANT 1) | | | | | | SISO(ANT 2) | | | | | | MIMO | | | | | |
|-----------------|---------|-------------|-------------|-------------|-------------|----|------------|-------------|-------------|-------------|-------------|----|------------|------|-------------|-------------|-------------|----|-------------|
| | | a | b | g | n | ac | ax (SU) | a | b | g | n | ac | ax (SU) | a | b | g | n | ac | ax (SU) |
| 2.4GHZ | 2.45GHz | | 12 Ch12, | 12 Ch12, | 12 Ch12, | | 12 CH12 | | 12 Ch12, | 12 Ch12, | 12 Ch12, | | 12 CH12 | | 15 Ch12, | 15 Ch12, | 15 Ch12, | | 15 Ch12, |
| | | | 13 | 13 | 13 | | ,13 | | 13 | 13 | 13 | | ,13 | | 13 | 13 | 13 | | 13 |
| | | | 7 | 7 | 5 | | 5 | | 7 | 7 | 5 | | 5 | | 10 | 10 | 8 | | 8 |
| 5GHZ (20MHz) | 5200MHz | 10 | | | 10 | 10 | 10 | 10 | | | 10 | 10 | 10 | 13 | | | 13 | 13 | 13 |
| | 5300MHz | 10 | | | 10 | 10 | 10 | 10 | | | 10 | 10 | 10 | 13 | | | 13 | 13 | 13 |
| | 5500MHz | 10 | | | 10 | 10 | 10 | 10 | | | 10 | 10 | 10 | 13 | | | 13 | 13 | 13 |
| | 5800MHz | 10 | | | 10 | 10 | 10 | 10 | | | 10 | 10 | 10 | 13 | | | 13 | 13 | 13 |
| 5GHZ (40MHz) | 5200MHz | | | | 10 | 10 | 10 | | | | 10 | 10 | 10 | | | | 13 | 13 | 13 |
| | 5300MHz | | | | 10 | 10 | 10 | | | | 10 | 10 | 10 | | | | 13 | 13 | 13 |
| | 5500MHz | | | | 10 | 10 | 10 | | | | 10 | 10 | 10 | | | | 13 | 13 | 13 |
| | 5800MHz | | | | 10 | 10 | 10 | | | | 10 | 10 | 10 | | | | 13 | 13 | 13 |
| 5GHZ (80MHz) | 5200MHz | | | | | 10 | 10 | | | | | 10 | 10 | | | | | 13 | 13 |
| | 5300MHz | | | | | 10 | 10 | | | | | 10 | 10 | | | | | 13 | 13 |
| | 5500MHz | | | | | 10 | 10 | | | | | 10 | 10 | | | | | 13 | 13 |
| | 5800MHz | | | | | 10 | 10 | | | | | 10 | 10 | | | | | 13 | 13 |

(Upper tolerance: target +1.0dB)

4.4.10. Reduced Power 11ax RU Tx power Tables - RSDB with RCV on

| Tones | SISO (ANT1) /in dBm | | | | SISO (ANT2) /in dBm | | | | MIMO (ALL) /in dBm | | | |
|-------|------------------------|---------------|---------------|---------------|------------------------------|-------------------------|---------------------------|---------------------------|----------------------------------|---------------------------|---------------------------|---------------------------|
| | 2.4G | 5G/20Mhz | 5G/40Mhz | 5G/80Mhz | 2.4G | 5G/20Mhz | 5G/40Mhz | 5G/80Mhz | 2.4G | 5G/20Mhz | 5G/40Mhz | 5G/80Mhz |
| | Ch & RU index | Ch & RU index | Ch & RU index | Ch & RU index | Ch & RU index | Ch & RU index | Ch & RU index | Ch & RU index | Ch & RU index | Ch & RU index | Ch & RU index | Ch & RU index |
| 26T | 12.5 Ch12,13 : 5 | 8 | 8 | 8 | 14 Ch12 : 6.5 Ch13 : 6 | 7.5 (UNII 3: 7) | 8 (UNII 3: 7) | 8 (UNII 3: 7) | 16.3 Ch12 : 8.8 Ch13 : 8.5 | 10.8 (UNII 3: 10.5) | 11 (UNII 3: 10.5) | 11 (UNII 3: 10.5) |
| 52T | 13.5 Ch12,13 : 5 | 9 | 9 | 9 | 15 Ch12 : 6.5 Ch13 : 6 | 8.5 (UNII 3: 8) | 9 (UNII 3: 8) | 9 (UNII 3: 8) | 17.3 Ch12 : 8.8 Ch13 : 8.5 | 11.8 (UNII 3: 11.5) | 12 (UNII 3: 11.5) | 12 (UNII 3: 11.5) |
| 106T | 14 Ch12,13 : 5 | 11 | 11 | 10 | 15.5 Ch12,13 : 6.5 | 10.5 (UNII 3: 10) | 11 (UNII 3: 10) | 10 (UNII 3: 9) | 17.8 Ch12,13 : 8.8 | 13.8 (UNII 3: 13.5) | 14 (UNII 3: 13.5) | 13 (UNII 3: 12.5) |
| 242T | 15 Ch12,13 : 5 | 13 | 13 | 11 | 16.5 Ch12,13 : 6.5 | 12.5 (UNII 3: 12) | 13 (UNII 3: 12) | 11 (UNII 3: 9.5) | 18.8 Ch12,13 : 8.8 | 15.8 (UNII 3: 15.5) | 16 (UNII 3: 15.5) | 14 (UNII 3: 13.3) |
| 484T | | | 13.5 | 11.5 | | | 13.5 (UNII 3: 12.5) | 11.5 (UNII 3: 10.5) | | | 16.5 (UNII 3: 16.0) | 14.5 (UNII 3: 14.0) |
| 996T | | | | 12 | | | | 12 (UNII 3: 11.5) | | | | 15 (UNII 3: 14.8) |

(Upper tolerance: target +1.0dB)

4.4.11. Legacy(11b/g/n/a/ac) Real Simultaneous Dual Band (RSDB) Power

| | # TX | 5GHz WIFI [dBm] | | 2.4GHz BT | 2.4GHz WIFI [dBm] | | 802.11 Modes |
|---------------------------|------|----------------------------------|----------------------------------|--------------------------------|-------------------|------|-------------------------------------|
| | | Ant1 | Ant2 | Ant1 | Ant1 | Ant2 | |
| 2.4 GHz + 5 GHz RSDB MIMO | 3 | BW20: 16 BW40: 15 BW80: 14 | | | 18 | 18 | 2.4 GHz: b, g, n 5 GHz: a, n, ac |
| 2.4 GHz + 5 GHz RSDB MIMO | 4 | BW20: 16 BW40: 15 BW80: 14 | BW20: 16 BW40: 15 BW80: 14 | | 18 | 18 | |
| BT + WIFI 2.4G + WIFI 5G | 3 | BW20: 16 BW40: 15 BW80: 14 | | 15 (0~38,40~78ch) 16 (39ch) | | 18 | |
| BT + WIFI 2.4G + WIFI 5G | 4 | BW20: 16 BW40: 15 BW80: 14 | BW20: 16 BW40: 15 BW80: 14 | 15 (0~38,40~78ch) 16 (39ch) | | 18 | |

(Upper tolerance: target +1.0dB)

4.4.12. Legacy(11b/g/n/a/ac) Real Simultaneous Dual Band (RSDB) Power with RCV On

| | # TX | 5GHz WIFI [dBm] | | 2.4GHz BT | 2.4GHz WIFI [dBm] | | 802.11 Modes |
|---------------------------|------|----------------------------------|----------------------------------|----------------------------------|-------------------|------|-------------------------------------|
| | | Ant1 | Ant2 | Ant1 | Ant1 | Ant2 | |
| 2.4 GHz + 5 GHz RSDB MIMO | 3 | BW20: 10 BW40: 10 BW80: 10 | | | 12 | 12 | 2.4 GHz: b, g, n 5 GHz: a, n, ac |
| 2.4 GHz + 5 GHz RSDB MIMO | 4 | BW20: 10 BW40: 10 BW80: 10 | BW20: 10 BW40: 10 BW80: 10 | | 12 | 12 | |
| BT + WIFI 2.4G + WIFI 5G | 3 | BW20: 10 BW40: 10 BW80: 10 | | 7.5 (0~38,40~78ch) 8.5 (39ch) | | 12 | |
| BT + WIFI 2.4G + WIFI 5G | 4 | BW20: 10 BW40: 10 BW80: 10 | BW20: 10 BW40: 10 BW80: 10 | 7.5 (0~38,40~78ch) 8.5 (39ch) | | 12 | |

(Upper tolerance: target +1.0dB)

4.4.13. 802.11ax(SU, 242T) Real Simultaneous Dual Band (RSDB) Power

| | # TX | 5GHz WIFI [dBm] | | 2.4GHz BT | 2.4GHz WIFI [dBm] | | 802.11 Modes |
|---------------------------|------|----------------------------------|----------------------------------|--------------------------------|-------------------|------|-------------------------------------|
| | | Ant1 | Ant2 | Ant1 | Ant1 | Ant2 | |
| 2.4 GHz + 5 GHz RSDB MIMO | 3 | BW20: 15 BW40: 14 BW80: 13 | | | 16 | 16 | 2.4 GHz: b, g, n 5 GHz: a, n, ac |
| 2.4 GHz + 5 GHz RSDB MIMO | 4 | BW20: 15 BW40: 14 BW80: 13 | BW20: 15 BW40: 14 BW80: 13 | | 16 | 16 | |
| BT + WIFI 2.4G + WIFI 5G | 3 | BW20: 15 BW40: 14 BW80: 13 | | 15 (0~38,40~78ch) 16 (39ch) | | 18 | |
| BT + WIFI 2.4G + WIFI 5G | 4 | BW20: 15 BW40: 14 BW80: 13 | BW20: 15 BW40: 14 BW80: 13 | 15 (0~38,40~78ch) 16 (39ch) | | 18 | |

(Upper tolerance: target +1.0dB)

4.4.14. 802.11ax(SU, 242T) Real Simultaneous Dual Band (RSDB) Power with RCV On

| | # TX | 5GHz WIFI [dBm] | | 2.4GHz BT | 2.4GHz WIFI [dBm] | | 802.11 Modes |
|---------------------------|------|----------------------------------|----------------------------------|----------------------------------|-------------------|------|-------------------------------------|
| | | Ant1 | Ant2 | Ant1 | Ant1 | Ant2 | |
| 2.4 GHz + 5 GHz RSDB MIMO | 3 | BW20: 10 BW40: 10 BW80: 10 | | | 12 | 12 | 2.4 GHz: b, g, n 5 GHz: a, n, ac |
| 2.4 GHz + 5 GHz RSDB MIMO | 4 | BW20: 10 BW40: 10 BW80: 10 | BW20: 10 BW40: 10 BW80: 10 | | 12 | 12 | |
| BT + WIFI 2.4G + WIFI 5G | 3 | BW20: 10 BW40: 10 BW80: 10 | | 7.5 (0~38,40~78ch) 8.5 (39ch) | | 12 | |
| BT + WIFI 2.4G + WIFI 5G | 4 | BW20: 10 BW40: 10 BW80: 10 | BW20: 10 BW40: 10 BW80: 10 | 7.5 (0~38,40~78ch) 8.5 (39ch) | | 12 | |

(Upper tolerance: target +1.0dB)

4.4.15. Simultaneous TX condition Bluetooth with 5GHz WIFI (non - DBS)

| | # TX | 5GHz WIFI | | 2.4GHz BT | 2.4GHz WIFI |
|---------------------------------------|---------|----------------------------------|----------------------------------|--------------------------------|-------------|
| | | Ant1 | Ant2 | Ant1 | Ant2 |
| 2.4 GHz BT + 5 GHz WIFI (Not RSDB) | 3 | BW20: 16 BW40: 15 BW80: 14 | BW20: 16 BW40: 15 BW80: 14 | 15 (0~38,40~78ch) 16 (39ch) | |
| | 3 | | | 15 (0~38,40~78ch) 16 (39ch) | 18 |

4.4.16 Maximum Bluetooth Power

| Mode / Band | | Modulated Average (dBm) | |
|--------------|-----|-------------------------|--------------------------------|
| Bluetooth | 1M | Maximum | 16 (0~38,40~78ch) 17 (39ch) |
| | | Nominal | 15 (0~38,40~78ch) 16 (39ch) |
| | EDR | Maximum | 14 (0~38,40~78ch) 15 (39ch) |
| | | Nominal | 13 (0~38,40~78ch) 14 (39ch) |
| Bluetooth LE | 1M | Maximum | 6.5 |
| | | Nominal | 5.5 |
| | 2M | Maximum | 6.5 |
| | | Nominal | 5.5 |

4.4.17. Reduced Bluetooth Power

| Mode / Band | | Modulated Average (dBm) | |
|--------------|-----|-------------------------|----------------------------------|
| Bluetooth | 1M | Maximum | 8.5 (0~38,40~78ch) 9.5 (39ch) |
| | | Nominal | 7.5 (0~38,40~78ch) 8.5 (39ch) |
| | EDR | Maximum | 8.5 (0~38,40~78ch) 9.5 (39ch) |
| | | Nominal | 7.5 (0~38,40~78ch) 8.5 (39ch) |
| Bluetooth LE | 1M | Maximum | 6.5 |
| | | Nominal | 5.5 |
| | 2M | Maximum | 6.5 |
| | | Nominal | 5.5 |

4.5 LTE Information

| Item. | Description |
|--------------------|---|
| Frequency Range | LTE Band 2 (PCS) 1 850.7 MHz ~ 1 909.3 MHz |
| | LTE Band 4 (AWS) 1 710.7 MHz ~ 1 754.3 MHz |
| | LTE Band 5 (Cell) 824.7 MHz ~ 848.3 MHz |
| | LTE Band 7 2 502.5 MHz ~ 2 567.5 MHz |
| | LTE Band 12 699.7 MHz ~ 715.3 MHz |
| | LTE Band 13 779.5 MHz ~ 784.5 MHz |
| | LTE Band 14 790.5 MHz ~ 795.5 MHz |
| | LTE Band 25 (PCS) 1 850.7 MHz ~ 1 914.3 MHz |
| | LTE Band 26 (Cell) 814.7 MHz ~ 848.3 MHz |
| | LTE Band 30 2 307.5 MHz ~ 2 312.5 MHz |
| | LTE TDD Band 38 2 572.5 MHz ~ 2 617.5 MHz |
| | LTE TDD Band 40 2 302.5 MHz ~ 2 397.5 MHz |
| | LTE TDD Band 41 2 498.5 MHz ~ 2 687.5 MHz |
| | LTE Band 66 (AWS) 1 710.7 MHz ~ 1 779.3 MHz |
| | LTE Band 71 665.5 MHz ~ 695.5 MHz |
| Channel Bandwidths | LTE Band 2 (PCS) 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz |
| | LTE Band 4 (AWS) 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz |
| | LTE Band 5 (Cell) 1.4 MHz, 3 MHz, 5 MHz, 10 MHz |
| | LTE Band 7 5 MHz, 10 MHz, 15 MHz, 20 MHz |
| | LTE Band 12 1.4 MHz, 3 MHz, 5 MHz, 10 MHz |
| | LTE Band 13 5 MHz, 10 MHz |
| | LTE Band 14 5 MHz, 10 MHz |
| | LTE Band 25 (PCS) 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz |
| | LTE Band 26 (Cell) 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz |
| | LTE Band 30 5 MHz, 10 MHz |
| | LTE TDD Band 38 5 MHz, 10 MHz, 15 MHz, 20 MHz |
| | LTE TDD Band 40 5 MHz, 10 MHz |
| | LTE TDD Band 41 5 MHz, 10 MHz, 15 MHz, 20 MHz |
| | LTE Band 66 (AWS) 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz |
| | LTE Band 71 5 MHz, 10 MHz, 15 MHz, 20 MHz |

| Ch. No.& Freq.(MHz) | Low | Mid | High | |
|---------------------|---------|-----------------|-----------------|-----------------|
| LTE Band 2 (PCS) | 1.4 MHz | 1 850.7 (18607) | 1 880.0 (18900) | 1 909.3 (19193) |
| | 3 MHz | 1 851.5 (18615) | 1 880.0 (18900) | 1 908.5 (19185) |
| | 5 MHz | 1 852.5 (18625) | 1 880.0 (18900) | 1 907.5 (19175) |
| | 10 MHz | 1 855.0 (18650) | 1 880.0 (18900) | 1 905.0 (19150) |
| | 15 MHz | 1 857.5 (18675) | 1 880.0 (18900) | 1 902.5 (19125) |
| | 20 MHz | 1 860.0 (18700) | 1 880.0 (18900) | 1 900.0 (19100) |
| LTE Band 4 (AWS) | 1.4 MHz | 1 710.7 (19957) | 1 732.5 (20175) | 1 754.3 (20393) |
| | 3 MHz | 1 711.5 (19965) | 1 732.5 (20175) | 1 753.5 (20385) |
| | 5 MHz | 1 712.5 (19975) | 1 732.5 (20175) | 1 752.5 (20375) |
| | 10 MHz | 1 715.0 (20000) | 1 732.5 (20175) | 1 750.0 (20350) |
| | 15 MHz | 1 717.5 (20025) | 1 732.5 (20175) | 1 747.5 (20325) |
| | 20 MHz | 1 720.0 (20050) | 1 732.5 (20175) | 1 745.0 (20300) |
| LTE Band 5 (Cell) | 1.4 MHz | 824.7 (20407) | 836.5 (20525) | 848.3 (20643) |
| | 3 MHz | 825.5 (20415) | 836.5 (20525) | 847.5 (20635) |
| | 5 MHz | 826.5 (20425) | 836.5 (20525) | 846.5 (20625) |
| | 10 MHz | 829.0 (20450) | 836.5 (20525) | 844.0 (20600) |
| | 5 MHz | 2502.5 (20775) | 2535 (21100) | 2567.5 (21425) |
| LTE Band 7 | 10 MHz | 2505 (20800) | 2535 (21100) | 2565 (21400) |
| | 15 MHz | 2507.5 (20825) | 2535 (21100) | 2562.5 (21375) |
| | 20 MHz | 2510 (20850) | 2535 (21100) | 2560 (21350) |
| | 1.4 MHz | 699.7 (23017) | 707.5 (23095) | 715.3 (23173) |
| LTE Band 12 | 3 MHz | 700.5 (23025) | 707.5 (23095) | 714.5 (23165) |
| | 5 MHz | 701.5 (23035) | 707.5 (23095) | 713.5 (23155) |
| | 10 MHz | 704.0 (23060) | 707.5 (23095) | 711.0 (23130) |
| | 5 MHz | 779.5 (23205) | 782 (23230) | 784.5 (23255) |
| LTE Band 13 | 10 MHz | | 782 (23230) | |
| | 5 MHz | 790.5 (23305) | 793 (23330) | 795.5 (23355) |
| LTE Band 14 | 10 MHz | | 793 (23330) | |
| | 1.4 MHz | 1 850.7 (26047) | 1 882.5 (26365) | 1 914.3 (26683) |
| LTE Band 25(PCS) | 3 MHz | 1 851.5 (26055) | 1 882.5 (26365) | 1 913.5 (26675) |
| | 5 MHz | 1 852.5 (26065) | 1 882.5 (26365) | 1 912.5 (26665) |
| | 10 MHz | 1 855 (26090) | 1 882.5 (26365) | 1 910 (26640) |
| | 15 MHz | 1 857.5 (26115) | 1 882.5 (26365) | 1 907.5 (26615) |
| | 20 MHz | 1 860 (26140) | 1 882.5 (26365) | 1 905 (26590) |
| | 1.4 MHz | 814.7 (26697) | 831.5 (26865) | 848.3 (27033) |
| LTE Band 26 (Cell) | 3 MHz | 815.5 (26705) | 831.5 (26865) | 847.5 (27025) |
| | 5 MHz | 816.5 (26715) | 831.5 (26865) | 846.5 (27015) |
| | 10 MHz | 819.0 (26740) | 831.5 (26865) | 844.0 (26990) |
| | 15 MHz | 821.5 (26765) | 831.5 (26865) | 841.5 (26965) |
| | 5 MHz | 2 307.5 (27685) | 2 310 (27710) | 2 312.5 (27735) |
| LTE Band 30 | 10 MHz | | 2 310 (27710) | |
| | 5 MHz | 2 572.5 (37775) | 2 595 (38000) | 2 617.5 (38225) |
| LTE TDD Band 38 | 10 MHz | 2 575 (37800) | 2 595 (38000) | 2 615 (38200) |
| | 15 MHz | 2 577.5 (37825) | 2 595 (38000) | 2 612.5 (38175) |
| | 20 MHz | 2 580 (37850) | 2 595 (38000) | 2 610 (38150) |
| | 5 MHz | 2 302.5 (38675) | 2 350 (39150) | 2 397.5 (39625) |
| LTE TDD Band 40 | 10 MHz | 2 305 (38700) | 2 350 (39150) | 2 395 (39600) |

| Ch. No.& Freq.(MHz) | Low | | Mid | | High | |
|--|--|--|----------------|---------------|------------------|---------------|
| LTE Band 66 (AWS) | 1.4 MHz | 1 710.7 (131979) | 1 745 (132322) | | 1 779.3 (132665) | |
| | 3 MHz | 1 711.5 (131987) | 1 745 (132322) | | 1 778.5 (132657) | |
| | 5 MHz | 1 712.5 (131997) | 1 745 (132322) | | 1 777.5 (132647) | |
| | 10 MHz | 1 715.0 (132022) | 1 745 (132322) | | 1 775.0 (132622) | |
| | 15 MHz | 1 717.5 (132047) | 1 745 (132322) | | 1 772.5 (132597) | |
| | 20 MHz | 1 720.0 (132072) | 1 745 (132322) | | 1 770.0 (132572) | |
| LTE Band 71 | 5 MHz | 665.5 (133147) | 680.5 (133297) | | 695.5 (133447) | |
| | 10 MHz | 668 (133172) | 680.5 (133297) | | 693 (133422) | |
| | 15 MHz | 670.5 (133197) | 680.5 (133297) | | 690.5 (133397) | |
| | 20 MHz | 673 (133222) | 680.5 (133297) | | 688 (133372) | |
| LTE TDD Band 41 | 5 MHz | 2498.5(39675) | 2545.8(40148) | 2593.0(40620) | 2640.3(41093) | 2687.5(41565) |
| | 10 MHz | 2501.0(39700) | 2547.0(40160) | 2593.0(40620) | 2639.0(41080) | 2685.0(41540) |
| | 15 MHz | 2503.5(39725) | 2548.3(41073) | 2593.0(40620) | 2637.8(41068) | 2682.5(41515) |
| | 20 MHz | 2506.0(39750) | 2549.5(40185) | 2593.0(40620) | 2636.5(41055) | 2680.0(41490) |
| UE Category | LTE Rel. 15, DL: Category 16, UL: Category 13(SPR) / UL: Category 5 | | | | | |
| HPUE Power Class | TDD 41 Power Class 3 :(Duty: 63.3%) Power Class 2 : (Duty:43.3%) | | | | | |
| Modulations Supported in UL | QPSK, 16QAM, 64QAM | | | | | |
| LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3 | Yes | | | | | |
| A-MPR disabled for SAR Testing. | Yes | | | | | |
| LTE Carrier Aggregation | Down-Link CA | This device supports Inter-band & Intra-band DL DL-link Carrier aggregations only. Detailed information of Down-Link CA are included in the Appendix.I | | | | |
| LTE Release information | This device does not support full CA features on 3GPP Release 15. It supports carrieraggregation, downlink MIMO. All other uplink communications are identical to te release 8 specifications. The following LTE Release 15 Features are not supported: Relay, Hetnet, Enhanced eICI, MDH, cross-carrier Scheduling, Enhanced SC-FDMA. | | | | | |

| Item. | Description | |
|--------------------|-------------------|---|
| Frequency Range | NR Band n2 (PCS) | 1 852.5 MHz ~ 1 907.5 MHz |
| | NR Band n5 (Cell) | 826.5 MHz ~ 846.5 MHz |
| | NR Band n25 | 1852.5 MHz ~ 1912.5 MHz |
| | NR Band n41 | 2 506.02 MHz ~ 2 679.99 MHz |
| | NR Band n66 (AWS) | 1 712.5 MHz ~ 1 777.5 MHz |
| | NR Band n71 | 665.5 MHz - 695.5 MHz |
| Channel Bandwidths | NR Band n2 (PCS) | 5 MHz, 10 MHz, 15 MHz, 20 MHz |
| | NR Band n5 (Cell) | 5 MHz, 10 MHz, 15 MHz, 20 MHz |
| | NR Band n25 | 5 MHz, 10 MHz, 15 MHz, 20 MHz |
| | NR Band n41 | 20 MHz, 40 MHz, 50 MHz, 60 MHz, 80 MHz, 90 MHz, 100 MHz |
| | NR Band n66(AWS) | 5 MHz, 10 MHz, 15 MHz, 20 MHz |
| | NR Band n71 | 5 MHz, 10 MHz, 15 MHz, 20 MHz |

| Ch. No. & Freq. (MHz) | Low | Mid | High |
|---------------------------------|---|-------------------------------------|--|
| NR Band n2 (PCS) | 5 MHz | 1852.5 (370500) | 1907.5 (381500) |
| | 10 MHz | 1855 (371000) | 1905 (381000) |
| | 15 MHz | 1857.5 (371500) | 1902.5 (380500) |
| | 20 MHz | 1860 (372000) | 1900 (380000) |
| NR Band n5 (Cell) | 5 MHz | 826.5 (165300) | 846.5 (169300) |
| | 10 MHz | 829 (165800) | 844 (168800) |
| | 15 MHz | 831.5 (166300) | 841.5 (168300) |
| | 20 MHz | 834 (166800) | 839 (167800) |
| NR Band n25 | 5 MHz | 1852.5(370500) | 1912.5(382500) |
| | 10 MHz | 1855(371000) | 1910(382000) |
| | 15 MHz | 1857.5(371500) | 1907.5(381500) |
| | 20 MHz | 1860(372000) | 1905(381000) |
| NR Band n71 | 5 MHz | 665.5 (133100) | 695.5 (139100) |
| | 10 MHz | 668 (133600) | 693 (138600) |
| | 15 MHz | 670.5 (134100) | 690.5 (138100) |
| | 20 MHz | 673 (134600) | 688 (137600) |
| NR Band n66 (AWS) | 5 MHz | 1712.5 (342500) 1734.1 (346820) | 1755.8 (351160) 1777.5 (355500) |
| | 10 MHz | 1715 (343000) 1735 (347000) | 1755 (351000) 1775 (355000) |
| | 15 MHz | 1717.5 (343500) 1735.8 (347160) | 1754.1 (350820) 1772.5 (354500) |
| | 20 MHz | 1720 (344000) | 1745 (349000) 1770 (354000) |
| NR Band n41 | 20 MHz | 2506.02 (501204) 2549.49 (509898) | 2592.99 (518598) 2636.49 (527298) 2679.99 (535998) |
| | 40 MHz | 2516.01 (503202) 2567.34 (513468) | 2618.67 (523734) 2670 (534000) |
| | 50 MHz | 2521.02 (504204) | 2592.99 (518598) 2664.99 (532998) |
| | 60 MHz | 2526 (505200) | 2592.99 (518598) 2659.98 (531996) |
| | 80 MHz | 2536.02 (507204) | 2649.99 (529998) |
| | 90 MHz | 2541 (508200) | 2644.98 (528996) |
| | 100 MHz | | 2592.99 (518598) |
| | NR Band n2/n5/n25/n66/n71 SCS | 15 kHz | |
| NR Band n41 SCS | 30 kHz | | |
| A-MPR disabled for SAR Testing. | Yes | | |
| Modulations Supported in UL | DFT-s-OFDM: pi/2BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM | | |

| EN-DC Carrier Aggregation Possible Combinations | The technical description includes all the possible carrier aggregation combinations |
|---|--|
| LTE Anchor Bands for NR Bands n2 | LTE Band 5/12/13 |
| LTE Anchor Bands for NR Band n5 | LTE Band 2/30/66 |
| LTE Anchor Bands for NR Band n25 | LTE Band 12 |
| LTE Anchor Bands for NR Band n41 | LTE Band 2/25/66 |
| LTE Anchor Bands for NR Band n66 | LTE Band 5/12/13 |
| LTE Anchor Bands for NR Band n71 | LTE Band 2/66 |

4.6 DUT Antenna Locations

The overall dimensions of this device are > 9 X 5 cm. A diagram showing device antenna can be found in SAR_setup_photos. Since the diagonal dimension of this device is > 160 mm and < 200 mm, it is considered a “phablet”.

This model allows users to exchange data or media files with other Bluetooth enabled devices using Bluetooth, which means they can connect to other Bluetooth enabled devices via Bluetooth tethering. Therefore, SAR test was performed for additional simultaneous transmissions.

Head and Bluetooth Tethering SAR were evaluated for BT BR tethering applications.

| Mode | Rear | Front | Left | Right | Bottom | Top |
|--------------------|------|-------|------|-------|--------|-----|
| EVDO BC10 (§90S) | Yes | Yes | Yes | Yes | Yes | No |
| EVDO BC0 (§22H) | Yes | Yes | Yes | Yes | Yes | No |
| PCS EVDO | Yes | Yes | Yes | Yes | Yes | No |
| GSM/GPRS/EDGE 850 | Yes | Yes | Yes | Yes | Yes | No |
| GSM/GPRS/EDGE 1900 | Yes | Yes | Yes | Yes | Yes | No |
| UMTS 850 | Yes | Yes | Yes | Yes | Yes | No |
| UMTS 1700 | Yes | Yes | Yes | Yes | Yes | No |
| UMTS 1900 | Yes | Yes | Yes | Yes | Yes | No |
| LTE Band 2 (PCS) | Yes | Yes | Yes | Yes | Yes | No |
| LTE Band 4 (AWS) | Yes | Yes | Yes | Yes | Yes | No |
| LTE Band 5 (Cell) | Yes | Yes | Yes | Yes | Yes | No |
| LTE Band 7 | Yes | Yes | Yes | No | Yes | No |
| LTE Band 12 | Yes | Yes | Yes | Yes | Yes | No |
| LTE Band 13 | Yes | Yes | Yes | Yes | Yes | No |
| LTE Band 14 | Yes | Yes | Yes | Yes | Yes | No |
| LTE Band 25 (PCS) | Yes | Yes | Yes | Yes | Yes | No |
| LTE Band 26 (Cell) | Yes | Yes | Yes | Yes | Yes | No |
| LTE Band 30 | Yes | Yes | Yes | No | Yes | No |
| LTE TDD Band 38 | Yes | Yes | Yes | No | Yes | No |
| LTE TDD Band 40 | Yes | Yes | Yes | No | Yes | No |
| LTE TDD Band 41 | Yes | Yes | Yes | No | Yes | No |
| LTE Band 66 (AWS) | Yes | Yes | Yes | Yes | Yes | No |
| LTE Band 71 | Yes | Yes | Yes | Yes | Yes | No |
| NR Band n2 (PCS) | Yes | Yes | Yes | Yes | Yes | No |
| NR Band n5 (Cell) | Yes | Yes | Yes | Yes | Yes | No |
| NR Band n25 | Yes | Yes | Yes | Yes | Yes | No |
| NR Band n41 | Yes | Yes | Yes | No | Yes | No |
| NR Band n66(AWS) | Yes | Yes | Yes | Yes | Yes | No |
| NR Band n71 | Yes | Yes | Yes | Yes | Yes | No |
| 2.4 GHz WLAN | Yes | Yes | Yes | No | No | Yes |
| 5 GHz WLAN | Yes | Yes | Yes | No | No | Yes |
| Bluetooth | Yes | Yes | Yes | No | No | Yes |

Particular EUT edges were not required to be evaluated for Bluetooth Tethering and Hotspot SAR if the edges were > 25 mm from the transmitting antenna according to FCC KDB 941225 D06v02r01 on page 2.

The distance between the transmit antennas and the edges of the device are included in the filing.

- Note: All test configurations are based on front view position.

4.7 Near Field Communications (NFC) Antenna

This EUT has NFC operations. The NFC antenna is integrated into the device for this model. Therefore, all SAR tests were performed with the device which already incorporates the NFC antenna. A diagram showing the location of the NFC antenna can be found in SAR _ Setup_ photos.

4.8 SAR Summation Scenario

According to FCC KDB 447498 D01v06, transmitters are considered to be transmitting simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds. Possible transmission paths for the EUT are shown below paths and are mode in same rectangle to indicate communication modes which share the same path. Modes which share the same transmission path cannot transmit simultaneously with one another.

This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis according to FCC KDB 447498 D01v06

| Capable Transmit Configuration | Head | Body-Worn | Wireless | Phablet |
|---|---------|-----------|----------|---------|
| | | Accessory | Router | |
| 1xCDMAvoice+ 2.4GHz WI-FI | Yes | Yes | NA | Yes |
| 1xCDMAvoice+ 5GHz WI-FI | Yes | Yes | NA | Yes |
| 1xCDMAvoice+ 2.4GHz Bluetooth | Yes^ | Yes | NA | Yes^ |
| 1xCDMAvoice+ 2.4GHz Bluetooth+ 5GHz WI-FI | Yes^ | Yes | NA | Yes^ |
| 1xCDMAvoice+ 2.4GHz WI-FIMIMO | Yes | Yes | NA | Yes |
| 1xCDMAvoice+ 5GHz WI-FIMIMO | Yes | Yes | NA | Yes |
| 1xCDMAvoice+ 2.4GHz WI-FI+ 5GHz WI-FI | Yes | Yes | NA | Yes |
| 1xCDMAvoice+ 2.4GHz WI-FIMIMO + 5GHz WI-FIMIMO | Yes | Yes | NA | Yes |
| 1xCDMAvoice+ 2.4GHz Bluetooth+ 5GHz WI-FIMIMO | Yes^ | Yes | NA | Yes^ |
| 1xCDMAvoice+ 2.4GHz Bluetooth+2.4GHz WI-FI+ 5GHz WI-FIMIMO | Yes^ | Yes | NA | Yes^ |
| GSMvoice+ 2.4GHz WI-FI | Yes | Yes | NA | Yes |
| GSMvoice+ 5GHz WI-FI | Yes | Yes | NA | Yes |
| GSMvoice+ 2.4GHz Bluetooth | Yes^ | Yes | NA | Yes^ |
| GSMvoice+ 2.4GHz Bluetooth+ 5GHz WI-FI | Yes^ | Yes | NA | Yes^ |
| GSMvoice+ 2.4GHz WI-FIMIMO | Yes | Yes | NA | Yes |
| GSMvoice+ 5GHz WI-FIMIMO | Yes | Yes | NA | Yes |
| GSMvoice+ 2.4GHz WI-FI + 5GHz WI-FI | Yes | Yes | NA | Yes |
| GSMvoice+ 2.4GHz WI-FIMIMO + 5GHz WI-FIMIMO | Yes | Yes | NA | Yes |
| GSMvoice+ 2.4GHz Bluetooth+ 5GHz WI-FIMIMO | Yes^ | Yes | NA | Yes^ |
| GSMvoice+ 2.4GHz Bluetooth+ 2.4GHz WI-FI +5GHz WI-FIMIMO | Yes^ | Yes | NA | Yes^ |
| UMTS + 2.4GHz WI-FI | Yes | Yes | Yes | Yes |
| UMTS + 5GHz WI-FI | Yes | Yes | Yes | Yes |
| UMTS + 2.4GHz Bluetooth | Yes^ | Yes | Yes^ | Yes^ |
| UMTS + 2.4GHz Bluetooth+ 5GHz WI-FI | Yes^ | Yes | Yes^ | Yes^ |
| UMTS + 2.4GHz WI-FIMIMO | Yes | Yes | Yes | Yes |
| UMTS + 5GHz WI-FIMIMO | Yes | Yes | Yes | Yes |
| UMTS + 2.4GHz WI-FI + 5GHz WI-FI | Yes | Yes | Yes | Yes |
| UMTS + 2.4GHz WI-FIMIMO + 5GHz WI-FIMIMO | Yes | Yes | Yes | Yes |
| UMTS + 2.4GHz Bluetooth+ 5GHz WI-FIMIMO | Yes^ | Yes | Yes^ | Yes^ |
| UMTS + 2.4GHz Bluetooth+2.4GHz WI-FI + 5GHz WI-FIMIMO | Yes^ | Yes | Yes^ | Yes^ |
| LTE + 5GNR | Yes | Yes | NA | Yes |
| LTE + 2.4GHz WI-FI | Yes | Yes | Yes | Yes |
| LTE + 2.4GHz WI-FI + 5GNR | Yes | Yes | Yes | Yes |
| LTE + 5GHz WI-FI | Yes | Yes | Yes | Yes |
| LTE + 5GHz WI-FI+ 5GNR | Yes | Yes | Yes | Yes |
| LTE + 2.4GHz Bluetooth | Yes^ | Yes | Yes^ | Yes^ |
| LTE + 2.4GHz Bluetooth+ 5GNR | Yes^ | Yes | Yes^ | Yes^ |
| LTE + 2.4GHz Bluetooth+ 5GHz WI-FI | Yes^ | Yes | Yes^ | Yes^ |
| LTE + 2.4GHz Bluetooth+ 5GHz WI-FI+ 5GNR | Yes^ | Yes | Yes^ | Yes^ |
| LTE + 2.4GHz WI-FIMIMO | Yes | Yes | Yes | Yes |
| LTE + 2.4GHz WI-FIMIMO + 5GNR | Yes^ | Yes | Yes | Yes |
| LTE + 5GHz WI-FIMIMO | Yes | Yes | Yes | Yes |
| LTE + 5GHz WI-FIMIMO + 5GNR | Yes^ | Yes | Yes | Yes |
| LTE + 2.4GHz WI-FI + 5GHz WI-FI | Yes | Yes | Yes | Yes |
| LTE + 2.4GHz WI-FI + 5GHz WI-FI + 5GNR | Yes^ | Yes | Yes | Yes |
| LTE + 2.4GHz WI-FIMIMO + 5GHz WI-FIMIMO | Yes | Yes | Yes | Yes |
| LTE + 2.4GHz WI-FIMIMO + 5GHz WI-FIMIMO + 5GNR | Yes^ | Yes | Yes | Yes |
| LTE + 2.4GHz Bluetooth+ 5GHz WI-FIMIMO | Yes^ * | Yes | Yes^ | Yes^ |
| LTE + 2.4GHz Bluetooth+ 2.4GHz WI-FI+ 5GHz WI-FIMIMO | Yes^ ** | Yes | Yes^ | Yes^ |
| LTE + 2.4GHz Bluetooth+ 5GHz WI-FIMIMO + 5GNR | Yes^ ** | Yes | Yes^ | Yes^ |
| LTE + 2.4GHz Bluetooth+ 2.4GHz WI-FI + 5GHz WI-FIMIMO + 5GNR | Yes^ ** | Yes | Yes^ | Yes^ |
| CDMA/EVDO data+ 2.4GHz WI-FI | Yes* | Yes* | Yes | Yes* |
| CDMA/EVDO data+ 5GHz WI-FI | Yes* | Yes* | Yes | Yes* |
| CDMA/EVDO data+ 2.4GHz Bluetooth | Yes** | Yes* | Yes^ | Yes ** |
| CDMA/EVDO data+ 2.4GHz Bluetooth+ 5GHz WI-FI | Yes** | Yes* | Yes^ | Yes ** |
| CDMA/EVDO data+ 2.4GHz WI-FIMIMO | Yes* | Yes* | Yes | Yes* |
| CDMA/EVDO data+ 5GHz WI-FIMIMO | Yes* | Yes* | Yes | Yes* |
| CDMA/EVDO data+ 2.4GHz WI-FI + 5GHz WI-FI | Yes* | Yes* | Yes | Yes* |
| CDMA/EVDO data+ 2.4GHz WI-FIMIMO + 5GHz WI-FIMIMO | Yes* | Yes* | Yes | Yes* |
| CDMA/EVDO data+ 2.4GHz Bluetooth+ 5GHz WI-FIMIMO | Yes** | Yes* | Yes^ | Yes** |
| CDMA/EVDO data+ 2.4GHz Bluetooth+ 2.4GHz WI-FI + 5GHz WI-FIMIMO | Yes** | Yes* | Yes^ | Yes** |
| GPRS/EDGE data+ 2.4GHz WI-FI | Yes* | Yes* | Yes | Yes* |
| GPRS/EDGE data+ 5GHz WI-FI | Yes* | Yes* | Yes | Yes* |
| GPRS/EDGE data+ 2.4GHz Bluetooth | Yes** | Yes* | Yes^ | Yes** |
| GPRS/EDGE data+ 2.4GHz Bluetooth+ 5GHz WI-FI | Yes** | Yes* | Yes^ | Yes** |
| GPRS/EDGE data+ 2.4GHz WI-FIMIMO | Yes* | Yes* | Yes | Yes* |
| GPRS/EDGE data+ 5GHz WI-FIMIMO | Yes* | Yes* | Yes | Yes* |
| GPRS/EDGE data+ 2.4GHz WI-FI+ 5GHz WI-FI | Yes* | Yes* | Yes | Yes* |
| GPRS/EDGE data+ 2.4GHz WI-FIMIMO + 5GHz WI-FIMIMO | Yes* | Yes* | Yes | Yes* |
| GPRS/EDGE data+ 2.4GHz Bluetooth+ 5GHz WI-FIMIMO | Yes** | Yes* | Yes^ | Yes** |
| CDMA/EVDO data+ 2.4GHz Bluetooth+ 2.4GHz WI-FI + 5GHz WI-FIMIMO | Yes** | Yes* | Yes^ | Yes** |

Note:

1. Bluetooth Antennas cannot transmit simultaneously
2. The device does not support licensed bands simultaneously transmitting.
3. UMTS +WLAN scenario also represents the UMTS Voice/DATA + WLAN hotspot scenario.
4. VoIP is supported in GPRS/EDGE and EVDA RevA
5. The highest reported SAR for each exposure condition is used for SAR summation purpose.
6. Wi-Fi Hotspot is supported for 2.4 GHz/ UNII-3 of 5 GHz WLAN.
7. This device supports Bluetooth tethering. ^ BluetoothTetheringis considered.
8. * Pre-installedVOIP applications areconsidered
9. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax. 802.11a/g/n/ac/ax supports CDD and STBC and 802.11n/ac/ax additionally supports SDM. Each WLAN antenna can transmit independently or together when operating with MIMO.
10. This device supports VOLTE.
11. This device supports VOWIFI
12. LTE + 5G NR FR1 Scenarios are limited to LTE Anchor Bands, LTE B2/5/12/13/25/30/66.
13. 5G NR FR2 n260 and n261 cannot transmit simultaneously.
14. LTE + 5G NR FR2 n260 and n261 operations are possible only with LTE B2/5/13/66 under EN-DC mode.

4.9 SAR Test Considerations

4.9.1 WiFi

Since wireless router operations are not allowed by the chipset firmware using U-NII-1, U-NII-2A & U-NII-2C WiFi, WiFi Hotspot SAR test and combinations are considered only 2.4 GHz and U-NII-3 for SAR with respected to wireless router configurations according to FCC KDB 941225 D06v02r01.

Since U-NII-1 and U-NII-2A bands have the same maximum output power and the highest reported SAR for U-NII-2A is less than 1.2 W/kg for 1g SAR and is less than 3.0 W/kg for 10g SAR, SAR is not required for U-NII-1 band according to FCC KDB 248227D01v02r02.

This device supports IEEE 802.11ax with the following features:

- a) Up to 80 MHz Bandwidth only for 5 GHz
- b) Up to 20 MHz Bandwidth only for 2.4 GHz
- c) No aggregate channel configurations
- d) 2 Tx antenna output
- e) Up to 1024 QAM is supported
- f) TDWR and Band gap channels are supported for 5 GHz
- g) MU-MIMO UL Operations are not supported

Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" since the diagonal dimension is greater than 160mm and less than 200mm. Phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg. Because wireless router operations are not supported for U-NII-1, U-NII-2A & U-NII-2C WLAN, phablet SAR tests were performed. Phablet SAR was not evaluated for 2.4 GHz WIFI, 2.4 GHz Bluetooth, and U-NII-3 WLAN operations since wireless router 1g SAR was < 1.2 W/kg.

Per April 2019 TCB Workshop Notes, SAR testing was not required for 802.11ax when applying the initial test configuration procedures of KDB 248227, with 802.11ax considered a higher order 802.11 mode.

4.8.2 Licensed Transmitter(s)

GSM/GPRS/EDGE DTM is not supported for US bands. Therefore, the GSM Voice modes in this report do not transmit simultaneously with GPRS/EDGE Data.

LTE SAR for the higher modulations and lower bandwidths were not tested since the maximum average output power of all required channels and configurations was not more than 0.5 dB higher than the highest bandwidth; and the reported LTE SAR for the highest bandwidth was less than 1.45 W/kg for all configurations according to FCC KDB 941225 D05v02r05.

Per FCC KDB 648474 D04v01r03, this device is considered a "Phablet" since the diagonal dimension is greater than 160 mm and less than 200 mm. Therefore, extremity SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR >1.2 W/kg. When hotspot mode applies, 10g SAR required only for the surfaces and edges with hotspot mode scaled to the maximum output power (including tolerance) is 1g SAR > 1.2 W/kg.

This Device supports 64QAM on the uplink for LTE Operations. Conducted powers for 64QAM uplink configurations were measured per section 5.1 of FCC KDB 941225 D05v02r05. SAR was not required for 64QAM since the highest maximum output power for 64QAM is ≤ 0.5 dB higher than the same configuration in QPSK and the reported SAR for QPSK configuration is ≤ 1.45 W/Kg, per section 5.2.4 for FCC KDB941225 D05v02r05.

This device supports LTE capabilities with overlapping transmission frequency ranges. When the supported frequency range of LTE Band falls completely within an LTE Band with a larger transmission frequency range, both LTE bands have the same target power or the band with the larger transmission frequency range has a higher target power and both LTE bands share the same transmission path and signal characteristics, SAR was only tested for the band with the larger transmission frequency range.

This device support both Power class 2(PC2) and Power Class 3 (PC3) for LTE band 41. Per May 2017 TCB workshop Notes, SAR test were performed with Power Class 3(given the specific UL/DL Limitations for Power Class 2). Additionally, SAR testing for the power class condition was evaluated for the highest configuration in Power class 3 for each test configuration to confirm the results were scalable linearly.

This device supports LTE Carrier Aggregation (CA) in the downlink. All uplink communications are identical to Release 8 specifications. Per FCC KDB publication 941225 D05A v01r02, SAR for LTE DL CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive.

This device supports downlink 4x4 MIMO operations for some LTE bands. Per Ma 2017 TCB Workshop Notes, SAR for 4x4 DL MIMO was not needed since the maximum output power with 4x4 DL MIMO inactive. Additionally, SAR for 4x4 MIMO Downlink Carrier Aggregation mode was not more than 0.25dB higher than the maximum output power with 4x4 MIMO Downlink and downlink carrier aggregation inactive.

This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The Highest available duty cycle for Power Class 2 operations is 43.3% using UL-DL configuration 1. Per May TCB Workshop notes, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure conditions.

NR implementation of n71, n5, n66, n2, and n41 is limited to EN-DC operations only, with LTE Band 2/5/12/13/25/30/66 acting as the anchor band. Per FCC Guidance, SAR tests were performed separately for NR Bands and LTE Anchor Bands. Please see Section 11 for more details.

This device is only capable of QPSK HSUPA in the uplink. Therefore, no additional SAR tests are required beyond that described for devices with HSUPA in KDB 941225 D01v03r01.

Per FCC KDB 941225 D01v03r01, 12.2 kbps RMC is the primary mode and HSPA (HSUPA/HSDPA with RMC) is the secondary mode.

Per FCC KDB 941225 D01v03r01, The SAR test exclusion is applied to the secondary mode by the following equation.

$$\text{Adjusted SAR} = \text{Highest Reported SAR} \times \frac{\text{Secondary Max tune - up (mW)}}{\text{Primary Max tune - up (mW)}} \leq 1.2 \text{ W/kg.}$$

Based on the highest Reported SAR, the secondary mode is not required.

Per FCC KDB 690783 1 D01 SAR Listings on Grants v01r03 and KDB 447498 D01 General RF Exposure Guidance v06 The SAR numbers listed must be consistent with the highest reported test results required by the published RF exposure KDB procedures. When the measured SAR is not at the maximum tune-up tolerance limit or maximum output power allowed for production units, the measured results are scaled to the maximum conditions to determine compliance; the scaled results are referred to as the reported SAR.

$$\text{The Reported SAR} = \text{The Measured SAR} \times \frac{\text{Maximum tune-up (mW)}}{\text{Measured Conducted Power(mW)}}$$

The Reported SAR for WLAN and Bluetooth

$$\text{The Reported SAR} = \text{The Measured SAR} \times \frac{\text{Maximum tune-up (mW)}}{\text{Measured Conducted Power(mW)}} \times \text{Duty factor}$$

FCC KDB 447498 D01v06 General RF Exposure Guidance introduces a new formula for calculating the SAR a Peak Location Separation Ratio(SPLSR) between pairs of simultaneously transmitting antennas:

$$SPLSR_i = (SAR_1 + SAR_2)^{1.5} / R_i$$

Where:

SAR_1 is the highest measured or estimated SAR for the first of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition

SAR_2 is the highest measured or estimated SAR for the second of a pair of simultaneous transmitting antennas, in the same test operating mode and exposure condition as the first

R_i is the separation distance between the pair of simultaneous transmitting antennas, When the SAR is measured, for both antennas in the pair, it is determined by the actual x, y and z coordinates in the 1-g SAR for each SAR peak location, based on the extrapolated and interpolated result in the zoom scan measurement, using the formula of $[(X_1 - X_2)^2 + (Y_1 - Y_2)^2 + (Z_1 - Z_2)^2]$

In order for a pair of simultaneous transmitting antennas with the sum 1-g of SAR > 1.6 W/kg and with the sum 10-g of SAR > 4W/Kg to qualify for exemption from Simultaneous Transmission SAR measurements, it has to satisfy the condition of:

$$(SAR_1 + SAR_2)^{1.5} / R_i \leq 0.04 \text{ for 1g SAR and } (SAR_1 + SAR_2)^{1.5} / R_i \leq 0.1 \text{ for 10g SAR.}$$

5. Introduction

The FCC has adopted the guidelines for evaluating the environmental effects of radio frequency radiation in ET Docket 93-62 on Aug. 6, 1996 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices.

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz. 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York 10017. The measurement procedure described in IEEE/ANSI C95.3-1992 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave is used for guidance in measuring SAR due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in Biological Effects and Exposure Criteria for Radio Frequency Electromagnetic Fields," NCRP Report No. 86 NCRP, 1986, Bethesda, MD 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

SAR Definition

Specific Absorption Rate (SAR) is defined as the time derivative of the incremental electromagnetic energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body.

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

Figure 1. SAR Mathematical Equation
SAR is expressed in units of Watts per Kilogram (W/kg)

$$SAR = \sigma E^2 / \rho$$

Where:

- σ = conductivity of the tissue-simulant material (S/m)
- ρ = mass density of the tissue-simulant material (kg/m³)
- E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relations to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.

6. Description of test equipment

6.1 SAR MEASUREMENT SETUP

These measurements are performed using the DASY4 automated dosimetric assessment system. It is made by Schmid & Partner Engineering AG (SPEAG) in Zurich, Switzerland. It consists of high precision robotics system (Staubli), robot controller, Pentium III computer, near-field probe, probe alignment sensor, and the generic twin phantom containing the brain equivalent material. The robot is a six-axis industrial robot performing precise movements to position the probe to the location (points) of maximum electromagnetic field (EMF) (see Figure.2).

A cell controller system contains the power supply, robot controller, teach pendant (Joystick), and remote control, is used to drive the robot motors. The PC with Windows XP or Windows 7 is working with SAR Measurement system DASY4 & DASY5, A/D interface card, monitor, mouse, and keyboard. The Staubli Robot is connected to the cell controller to allow software manipulation of the robot. A data acquisition electronic (DAE) circuit performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC plug-in card.

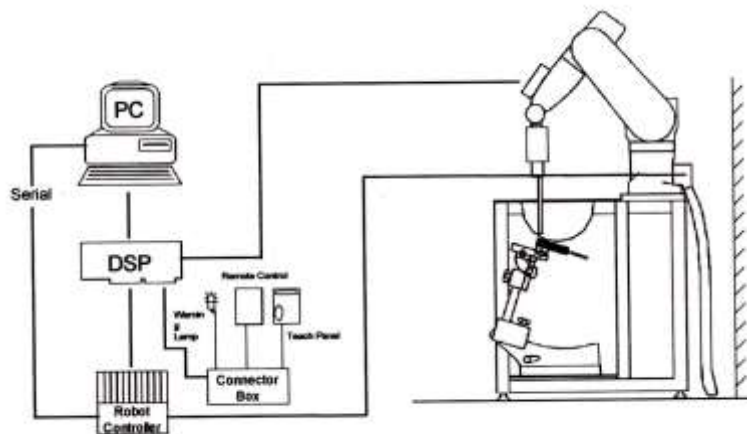


Figure 2. HCT SAR Lab. Test Measurement Set-up

The DAE consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the PC-card is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines. The mechanical probe mounting device includes two different sensor systems for frontal and sidewise probe contacts. They are also used for mechanical surface detection and probe collision detection. The robot uses its own controller with a built in VME-bus computer. The system is described in detail in.

7. SAR Measurement Procedure

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013.

1. The SAR distribution at the exposed side of the head or body was measured at a distance no more than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the DUT's head and body area and the horizontal grid resolution was depending on the FCC KDB 865664 D01v01r04 table 4-1 & IEEE 1528-2013.
2. Based on step, the area of the maximum absorption was determined by sophisticated interpolations routines implemented in DASY software. When an Area Scan has measured all reachable point. DASY system computes the field maximal found in the scanned are, within a range of the maximum. SAR at this fixed point was measured and used as a reference value.
3. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB 865664 D01v01r04 table 4-1 and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (reference from the DASY manual.)
 - a. The data at the surface were extrapolated, since the center of the dipoles is no more than 2.7 mm away from the tip of the probe (it is different from the probe type) and the distance between the surface and the lowest measuring point is 1.2 mm. The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.
 - b. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed using the 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the "Not a knot" condition (in x, y, and z directions. The volume was integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the average.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan. If the value changed by more than 5 %, the SAR evaluation and drift measurements were repeated.

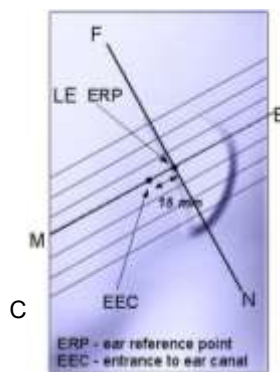
Area scan and zoom scan resolution setting follow KDB 865664 D01v01r04 quoted below.

| | | ≤ 3 GHz | > 3 GHz | |
|--|------------------------------------|---|---|--|
| Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface | | 5±1 mm | $\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm | |
| Maximum probe angle from probe axis to phantom surface normal at the measurement location | | 30°±1° | 20°±1° | |
| Maximum area scan Spatial resolution: $\Delta x_{Area}, \Delta y_{Area}$ | | ≤ 2 GHz: ≤15 mm 2-3 GHz: ≤12 mm | 3-4 GHz: ≤12 mm 4-6 GHz: ≤10 mm | |
| | | 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. | | |
| Maximum zoom scan Spatial resolution: $\Delta x_{zoom}, \Delta y_{zoom}$ | | ≤ 2 GHz: ≤8mm 2-3 GHz: ≤5mm* | 3-4 GHz: ≤5 mm* 4-6 GHz: ≤4 mm* | |
| Maximum zoom scan Spatial resolution normal to phantom surface | uniform grid: $\Delta z_{zoom}(n)$ | ≤ 5 mm | 3-4 GHz: ≤4 mm 4-5 GHz: ≤3 mm 5-6 GHz: ≤2 mm | |
| | graded grid | $\Delta z_{zoom}(1)$: between 1 st two Points closest to phantom surface | ≤ 4 mm | 3-4 GHz: ≤3 mm 4-5 GHz: ≤2.5 mm 5-6 GHz: ≤2 mm |
| | | $\Delta z_{zoom}(n>1)$: between subsequent Points | ≤1.5· $\Delta z_{zoom}(n-1)$ | |
| Minimum zoom scan volume | x, y, z | ≥ 30 mm | 3-4 GHz: ≥28 mm 4-5 GHz: ≥25 mm 5-6 GHz: ≥22 mm | |
| 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. * When zoom scan is required and the reported SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz. | | | | |

8. Description of Test Position

8.1 EAR REFERENCE POINT

Figure 8-2 shows the front, back and side views of the SAM phantom. The center-of-mouth reference point is labeled “M”, the left ear reference point (ERP) is marked “LE”, and the right ERP is marked “RE.” Each ERP is on the B-M (back-mouth) line located 15 mm behind the entrance-to-ear-canal (EEC) point, as shown in Figure 6-1. The Reference Plane is defined as passing through the two ear reference point and point M. The line N-F (Neck-Front), also called the Reference Pivoting Line, is not perpendicular to the reference plane (See Figure 5-1), Line B-M is perpendicular to the N-F line. Both N-F and B-M lines are marked on the external phantom shell to facilitate handset positioning.



8.2 HANDSET REFERENCE POINTS

Two imaginary lines on the handset were established: the vertical centerline and the horizontal line. The device under test was placed in a normal operating position with the acoustic output located along the “vertical centerline” on the front of the device aligned to the “ear reference point”(see Figure 8-3). The acoustic output was then located at the same level as the center of the ear reference point. The device under test was positioned so that the “vertical centerline” was bisecting the front surface of the handset at its top and bottom edges, positioning the “ear reference point” on the outer surface of the both the left and right head phantoms on the ear reference point.



Figure 8-2
Front, back and side views of SAM Twin Phantom

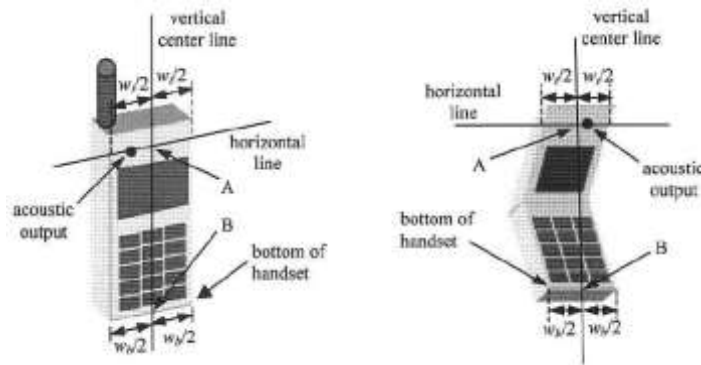


Figure 6-3. Handset vertical and horizontal reference lines

8.3 Device Holder

The device holder is made out of low-loss POM material having the following dielectric parameter; relative permittivity $\epsilon=3$ and loss tangent $\sigma =0.02$.

8.4 Position for cheek

Figure 6.4. shows cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

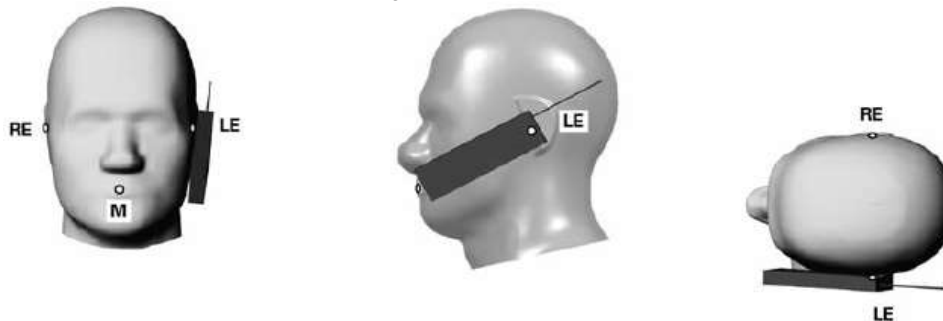


Figure 8.4 Cheek/ Touch position of the wireless device

8.5 Definition of the “tilted” position

Figure 6.5. shows tilted position. Place the device in the cheek position. Then while maintaining the orientation of the device, retract the device parallel to the reference plane far enough away from the phantom to enable a rotation of the device by 15°.



Figure 8.5. Tilt 15° position of the wireless device

8.6 Body-Worn Accessory Configurations

Body-worn operating configurations are tested with the belt-dips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 6-6). Per FCC KDB Publication 648474 D04v01r03 Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in Body-worn accessories. The Body-worn accessory procedures in FCC KDB Publication 447498 D01v06 should be used to test for Body-worn accessory SAR compliance, without a headset connected to it.. When the reported SAR for a body- worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.



Figure 8-6 Sample Body-Worn Diagram

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-dip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

8.7 Wireless Router Configurations

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06v02r01 where SAR test considerations for handsets (L x W \geq 9cmx5 cm) are based on a composite test separation distance of 10 mm from the front back and edges of the device containing transmitting antennas within 2.5 cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the Body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some Body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v06 publication procedures. The Portable Hotspot feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

8.8 Extremity Exposure Configurations

Devices that are designed or intended for use on extremities or mainly operated in extremity only exposure conditions: i.e., hands, wrists, feet and ankles, may require extremity SAR evaluation. When the device also operates in close proximity to the user's body, SAR compliance for the body is also required. The 1-g body and 10-g extremity SAR Exclusion Thresholds found in KDB Publication 447498 D01v06 should be applied to determine SAR test requirements.

For smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear. the phablets procedures outlined in KDB Publication 648474 D04 v01r03 should be applied to evaluate SAR compliance. A device marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance. In addition to the normally required head and body-worn accessory SAR test procedures required for handsets, the UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna \leq 25 mm from that surface or edge, in direct contact with the phantom, for 10-g SAR. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g SAR is required only for the surfaces and edges with hotspot mode scaled to the maximum output power (including tolerance) is 1-g SAR > 1.2 W/kg.

8.9 Additional Test Positions due to Proximity Conditions

This device uses a sensor to reduce output powers in extremity (hand-held) use conditions.

When the sensor detects a user is touching the device on or near to the antenna the device reduces the maximum allowed output power. However, the proximity sensor is not active when the device is moved beyond the sensor triggering distance and the maximum output power is no longer limited. Therefore, an additional exposure condition is needed in the vicinity of the triggering distance to ensure SAR is compliant when the device is allowed to operate at a non-reduced output power level.

FCC KDB 616217 D04 v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device at these additional exposure conditions. The smallest separation distance determined by the sensor triggering and sensor coverage for each applicable edge, minus 1 mm, was used as the test separation distance for SAR testing. Sensor triggering distance summary data is included in below table.

| Wireless technologies | Position | §6.2 Triggering Distance | §6.3 Coverage | §6.4 Tilt Angle | Worst case distance for Phablet SAR |
|---|----------|--------------------------|---------------|-----------------|-------------------------------------|
| WWAN (GSM 850/1900/ CDMA BC1 /UMTS B2/B4 LTE B2/25/4/7/66/30/38/41 NR n2,n25,n66,n41) | Rear | 9 | N/A | N/A | 8 |
| | Front | 8 | N/A | N/A | 7 |
| | Bottom | 14 | N/A | N/A | 13 |

8.10 Bluetooth tethering Configurations

Per May 2017 TCBC Workshop documents When Bluetooth tethering applies, simultaneous transmission SAR needs consideration.

This model allows users to exchange data or media files with other Bluetooth enabled devices using Bluetooth, which means they can connect to other Bluetooth enabled devices via Bluetooth tethering.

Therefore, SAR test was performed for additional simultaneous transmissions.

Head and Bluetooth tethering SAR were evaluated for BT BR tethering applications.

9. RF Exposure Limits

| HUMAN EXPOSURE | UNCONTROLLED ENVIRONMENT General Population (W/kg) or (mW/g) | CONTROLLED ENVIRONMENT Occupational (W/kg) or (mW/g) |
|--|--|--|
| SPATIAL PEAK SAR * (Partial Body) | 1.6 | 8.0 |
| SPATIAL AVERAGE SAR ** (Whole Body) | 0.08 | 0.4 |
| SPATIAL PEAK SAR *** (Hands / Feet / Ankle / Wrist) | 4.0 | 20.0 |

NOTES:

- * The Spatial Peak value of the SAR averaged over any 1 g of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
- ** The Spatial Average value of the SAR averaged over the whole-body.
- *** The Spatial Peak value of the SAR averaged over any 10 g of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

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

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

10. FCC SAR General Measurement Procedures

Power Measurements for licensed transmitters are performed using a base simulator under digital average power.

10.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D01v06, when SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as Reported SAR. The highest reported SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

10.2 3G SAR Test Reduction Procedure

10.2.1 GSM, GPRS AND EDGE

The following procedures may be considered for each frequency band to determine SAR test reduction for devices operating in GSM/GPRS/EDGE modes to demonstrate RF exposure compliance. GSM voice mode transmits with 1 time-slot. GPRS and EDGE may transmit up to 4 time slots in the 8 time-slot frame according to the multi-slot class implemented in a device.

10.2.2 SAR Test Reduction

In FCC KDB 941225 D01v03r01, certain transmission modes within a frequency band and wireless mode evaluated for SAR are defined as primary modes. The equivalent modes considered for SAR test reduction are denoted as secondary modes. When the maximum output power including tune-up tolerance specified for production units in a secondary mode is ≤ 0.25 dB higher than the primary mode or when the highest reported SAR of the primary mode, scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode, is ≤ 1.2 W/kg, SAR measurements are not required for the secondary mode. These criteria are referred to as the 3G SAR test reduction procedure. When the 3G SAR test reduction procedure is not satisfied, SAR measurements are additionally required for the secondary mode.

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested

10.2.3 Procedures Used to Establish RF Signal for SAR

The following procedures are according to FCC KDB 941225 D01v03r01-3G SAR Measurement Procedures. The handset was placed into a simulated call using a base station simulator in a shielded chamber. Such test signals offer a consistent means for testing SAR and are recommended for evaluation SAR measurements were taken with a fully charged battery. In order to verify that the device was tested and maintained at full power, this was configured with the base station simulator. The SAR measurement Software calculates a reference point at the start and end of the test to Check for power drifts. If conducted Power deviations of more than 5 % occurred, the tests were repeated.

10.3 SAR Measurement Conditions for CDMA2000

The following procedures were performed according to FCC KDB Publication 941225 D01v03r01 “3G SAR Measurement Procedures.”

10.3.1 Output Power Verification

See 3GPP2 C.S0011/TIA-98-E as recommended by FCC KDB Publication 941225 D01v03r01 “3G SAR Measurement Procedures.” Maximum output power is verified on the High, Middle and Low channels according to procedures in section 4.4.5.2 of 3GPP2 C.S0011/TIA-98-E. SO55 tests were measured with power control bits in the “All Up” condition.

1. If the mobile station (MS) supports Reverse TCH RC 1 and Forward TCH RC 1, set up a call using Fundamental Channel Test Mode 1 (RC=1/1) with 9600 bps data rate only.
2. Under RC1, C.S0011 Table 4.4.5.2-1, Table 8-1 parameters were applied.
3. If the MS supports the RC 3 Reverse FCH, RC3 Reverse SCH₀ and demodulation of RC 3,4, or 5, set up a call using Supplemental Channel Test Mode 3 (RC 3/3) with 9600 bps Fundamental Channel and 9600 bps SCH₀ data rate.
4. Under RC3, C.S0011 Table 4.4.5.2-2, Table 8-2 was applied.
5. FCHs were configured at full rate for maximum SAR with “All Up” power control bits.

Parameters for Max. Power for RC1

| Parameter | Units | Value |
|------------------------------|--------------|-------|
| I_{or} | dBm/1.23 MHz | -104 |
| $\frac{Pilot E_c}{I_{or}}$ | dB | -7 |
| $\frac{Traffic E_c}{I_{or}}$ | dB | -7.4 |

Parameters for Max. Power for RC3

| Parameter | Units | Value |
|------------------------------|--------------|-------|
| I_{or} | dBm/1.23 MHz | -86 |
| $\frac{Pilot E_c}{I_{or}}$ | dB | -7 |
| $\frac{Traffic E_c}{I_{or}}$ | dB | -7.4 |

10.3.2 Head SAR Measurements

SAR for next to the ear head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55. The 3G SAR test reduction procedure is applied to RC1 with RC3 as the primary mode; otherwise, SAR is required for the channel with maximum measured output in RC1 using the head exposure configuration that results in the highest reported SAR in RC3.

Head SAR is additionally evaluated using EVDO Rev. A to support compliance for VoIP operations. See Section 8.4.5 for EVDO Rev. A configuration parameters

10.3.3 Body-worn SAR Measurements

SAR for body-worn exposure configurations is measured in RC3 with the DUT configured to transmit at full rate on FCH with all other code channels disabled using TDSO / SO32. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCH_n), with FCH only as the primary mode. Otherwise, SAR is required for multiple code channel configuration (FCH + SCH_n), with FCH at full rate and SCH₀ enabled at 9600 bps, using the highest reported SAR configuration for FCH only. When multiple code channels are enabled, the transmitter output can shift by more than 0.5 dB and may lead to higher SAR drifts and SCH dropouts.

The 3G SAR test reduction procedure is applied to body-worn accessory SAR in RC1 with RC3 as the primary mode. Otherwise, SAR is required for RC1, with SO55 and full rate, using the highest reported SAR configuration for body-worn accessory exposure in RC3.

10.3.4 Body-worn SAR Measurements for EVDO Devices

For handsets with EVDO capabilities, the 3G SAR test reduction procedure is applied to EVDO Rev. 0 with 1x RTT RC3 as the primary mode to determine body-worn accessory test requirements. Otherwise, body-worn accessory SAR is required for Rev. 0, at 153.6 kbps, using the highest reported SAR configuration for body-worn accessory exposure in RC3.

The 3G SAR test reduction procedure is applied to Rev. A, with Rev. 0 as the primary mode to determine body-worn accessory SAR test requirements. When SAR is not required for Rev. 0, the 3G SAR test reduction is applied with 1x RTT RC3 as the primary mode.

When SAR is required for EVDO Rev. A, SAR is measured with a Reverse Data Channel payload size of 4096 bits and a Termination Target of 16 slots defined for Subtype 2 Physical Layer configurations, using the highest reported SAR configuration for body-worn accessory exposure in Rev. 0 or 1x RTT RC3, as appropriate.

10.3.4 Body SAR Measurements for EVDO Hotspot

Hotspot Body SAR is measured using Subtype 0/1 Physical Layer configurations for Rev. 0. The 3G SAR test reduction procedure is applied to Rev. A, Subtype 2 Physical layer configuration, with Rev. 0 as the primary mode; otherwise, SAR is measured for Rev. A using the highest reported SAR configuration for body-worn accessory exposure in Rev. 0. The AT is tested with a Reverse Data Channel rate of 153.6 kbps in Subtype 0/1 Physical Layer configurations; and a Reverse Data Channel payload size of 4096 bits and Termination Target of 16 slots in Subtype 2 Physical Layer configurations.

For EVDO data devices that also support 1x RTT voice and/or data operations, the 3G SAR test reduction procedure is applied to 1x RTT RC3 and RC1 with EVDO Rev. 0 and Rev. A as the respective primary modes. Otherwise, the 'Body-Worn Accessory SAR' procedures in the '3GPP2 CDMA 2000 1x Handsets' section are applied.

10.3.5 CDMA2000 1x Advanced

This device additionally supports 1x Advanced. Conducted powers are measured using SO75 with RC8 on the uplink and RC11 on the downlink per FCC KDB Publication 941225 D01v03r01. Smart blanking is disabled for all measurements. The EUT is configured with forward power control Mode 000 and reverse power control at 400 bps. Conducted powers are measured on an Agilent 8960 Series 10 Wireless Communications Test Set, Model E5515C using the CDMA2000 1x Advanced application, Option E1962B-410.

The 3G SAR test reduction procedure is applied to the 1x-Advanced transmission mode with 1x RTT RC3 as the primary mode. When SAR measurement is required, the 1x-Advanced power measurement configurations are used. The 1x Advanced SAR procedures are applied separately to head, body-worn accessory and other exposure conditions.

10.4 SAR Measurement Conditions for UMTS

10.4.1 Output Power Verification

Maximum output power is verified on the High, Middle and Low channels according to the general descriptions in sec. 5.2 of 3GPP TS 34.121, using the appropriate RMC with TPC (transmit power control) set to all “1s” or applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HS-DPCCH etc) are tabulated in this test report. All configurations that are not supported by the DUT or cannot be measured due to technical or equipment limitations are identified.

10.4.2 Body SAR measurements

SAR for body exposure configurations is measured using the 12.2 kbps RMC with the TPC bits all “1s”. the 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using and applicable RMC configuration with the corresponding spreading code or DPDCHn, for the highest reported SAR configuration in 12.2 kbps RMC.

10.4.3 SAR Measurements with Rel. 5 HSDPA

The 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSDPA is measured using and FRC with H-SET 1 in Sub-test and a 12.2 kbps RMC without HSDPA. Handsets with both HSDPA and HSUPA are tested according to release 6 HSPA test procedures. 8.4.5 SAR Measurement with Rel.6 HSUPA The 3G SAR test Reduction Procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Sub-test 5, Using H-Set 1 and QPSK for FRC and a 12.2kbps RMC configured in Test Loop Mode 1 and Power Control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA. When VOIP applies to head exposure, the 3G SAR test reduction procedure is applied with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body SAR measurements are applied to head exposure testing.

10.4.4 SAR Measurements with Rel. 6 HSUPA

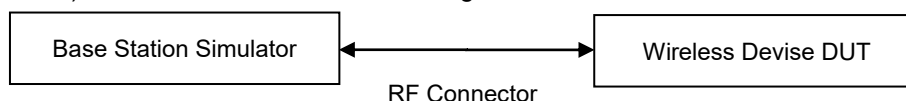
The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Sub-test 5, using H-Set1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 and power control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA.

10.4.5 DC-HSDPA

SAR is required for Rel.8 DC-HSDPA when SAR is required for Rel.5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in table C.8.1.12 of 3GPP TS34.121-1 to determine SAR test reduction. Primary and secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

DC-HSDPA Configurations

- ◆ 3GPP specification TS 34.121-1 Release 8. was used for used for DC-HSDPA guidance.
- ◆ H-set 12(QPSK)was conformed to be used during DC-HSDPA measurements.



10.5 SAR Measurement Conditions for LTE

LTE modes are tested according to FCC KDB 941225 D05v02r05 publication. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluation SAR [4]. The R&S CMW500 or Anritsu MT8820C simulators are used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

10.5.1 Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

10.5.2 MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36. 101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

10.5.3 A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

10.5.4 Required RB Size and RB offsets for SAR testing

According to FCC KDB 941225 D05v02r05

- a. Per sec 4.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth
 - i. The required channel and offset combination with the highest maximum output power is required for SAR.
 - ii. When the reported SAR is ≤ 0.8 W/Kg, testing of the remaining RB offset configurations and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the RB offset configuration with highest output power for that channel.
 - iii. When the reported SAR for a required test channel is > 1.45 W/kg, SAR is required for all RB offset configurations for that channel.
- b. Per Sec 4.2.2, SAR is required for 50% RB allocation using the largest bandwidth following the same procedures outlined in Sec 4.2.1.
- c. Per Sec. 4.2.3, QPSK SAR is not required for the 100% allocation when the highest maximum output power for the 100% allocation is less than the highest maximum output power of the 1 RB and 50% RB allocations and the reported SAR for the 1 RB and 50% RB allocations is < 0.8 W/kg.
- d. Per Sec. 4.2.4 and 4.3, SAR test for higher order modulations and lower bandwidths configurations are not required when the conducted power of the required test configurations determined by Sec. 4.2.1 through 4.2.3 is less than or equal to 1/2 dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is < 1.45 W/Kg.

10.5.5 Downlink Carrier Aggregation

Conducted power measurements with LTE Carrier aggregation (CA) downlink only active are made in accordance to KDB publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. For every supported combination of downlink only carrier aggregation, additional conducted output Powers are measured with downlink carrier aggregation active for the configuration with highest measured maximum conducted power with the downlink carrier aggregation inactive measured among the channel bandwidth, modulation and RB combinations in each frequency band. Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for carrier aggregation configurations when the

average output power with downlink only carrier aggregation active is not more than 0.25dB higher than the average output power with downlink only carrier aggregation inactive.

10.5.6 LTE Uplink Carrier Aggregation SAR Measurement Procedure

This device is specified with the same maximum output power and Tune-up tolerances for intra-band contiguous up-link LTE CA_41C and the single carrier LTE 41. Both Uplink carrier aggregation and single carrier are operating with Power class 3.

This device support intra-band contiguous UL CA: LTE CA_41C with a maximum of 20 MHz component carriers. For intra-band contiguous carrier aggregation scenarios, 3GPP 36.101 Table 6.2.2A-1 specifies that aggregate maximum allowed output power is equivalent to the single carrier scenario.

This device does not have any operating restrictions, Power reduction or variations among the different LTE operating mode configurations on single carrier LTE 41 and intra-band contiguous up-link LTE CA_41C operations.

The measured power results of single carrier LTE41 and intra-band contiguous up-link LTE CA_41C satisfy Maximum output power and Tune-up tolerances.

Per Fall 2017 TCB Workshop Notes, the output Power with uplink CA active was measured for the configuration with the Highest Reported SAR with standalone condition.

Because the maximum output for UL CA of LTE 41 is \leq standalone LTE mode (without CA), SAR for LTE B41 Up link CA was performed at the highest standalone SAR configuration without CA and also UL CA SAR is not required for all required test channels, Because the reported SAR for UL CA configuration is > 1.2 W/kg

10.5.7 LTE(TDD) Considerations

According to KDB 941225 D05v02r05, for Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

SAR was tested with the highest transmission duty factor (63.33 %) using Uplink-downlink configuration 0 and Special subframe configuration 6. LTE TDD Band 41 supports 3GPP TS 36.211 section 4.2 for Type 2 Frame and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special sub frame configurations.

Table 4.2-1: 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 | $26336 \cdot T_s$ | | | $7680 \cdot T_s$ | | |
| 5 | $6592 \cdot T_s$ | $4384 \cdot T_s$ | $5120 \cdot T_s$ | $20480 \cdot T_s$ | $4384 \cdot T_s$ | $5120 \cdot T_s$ |
| 6 | $19760 \cdot T_s$ | | | $23040 \cdot T_s$ | | |
| 7 | $21952 \cdot T_s$ | | | $12800 \cdot T_s$ | | |
| 8 | $24144 \cdot T_s$ | | | - | | |
| 9 | $13168 \cdot T_s$ | | | - | | |

Calculated Duty Cycle – Extended cyclic prefix in uplink x (Ts) x no of S + no of U

Table 4.2-2: 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 |

Example for calculated Duty Cycle for Uplink-Downlink Configuration 0:

Calculated Duty Cycle = $(5120 \times (1/(15000 \times 2048))) \times 2 + 0.006)/0.01 = 63.33 \%$

Where

$T_s = 1/(15000 \times 2048)$ seconds

HPUE :

Calculated Duty Cycle for Uplink-Downlink Configuration 1:

Calculated Duty Cycle = $5120 \times (1/(15000 \times 2048)) \times 2 + 0.004)/0.01 = 43.33 \%$

10.5.6 The Call Box Setup for LTE(TDD)

When you Want to Test for LTE TDD, Please Change Frame Structure TDD and TDD Uplink Downlink Configuration 0 and Special Subframe Configuration 6.

10.6 SAR Testing with 802.11 Transmitters

The normal network operating configurations of 802.11 transmitters are not suitable for SAR measurements. 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 the results are consistent and reliable. See KDB Publication 248227 D01v02r02 for more details.

10.6.1 General Device Setup

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in 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.

A periodic duty factor is required for current generation SAR system to measure SAR. When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92-96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. The reported SAR is scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

10.6.2 U-NII-1 and U-NII-2A

For devices that operate in both U-NII-1 and U-NII2A bands, when the same maximum output power is specified for both bands, SAR measurement using OFDM SAR test procedures is not required for U-NII-1 unless the highest reported SAR for U-NII-2A is > 1.2 W/kg for 1g SAR or > 3.0 W/kg for 10g SAR. When different maximum output powers are specified for the bands, SAR measurement for the U-NII band with the lower maximum output power is not required unless the highest reported SAR for the U-NII band with the higher maximum output power, adjusted by the ratio of lower to higher specified maximum output power for the two bands, is > 1.2 W/kg for 1g SAR or > 3.0 W/kg for 10g SAR.

10.6.3 U-NII-2C and U-NII-3

The frequency range covered by U-NII-2C and U-NII-3 is 380 MHz (5.47 GHz – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. When Terminal Doppler Weather Radar (TDWR) restriction applies, the channels at 5.60 GHz – 5.65 GHz in U-NII-2C band must be disabled with acceptable mechanisms and documented in the equipment certification.

Unless band gap channels are permanently disabled, SAR must be considered for these channels.

10.6.4 Initial Test Position Procedure

For exposure conditions with multiple test positions, such as handset operating next to the ear, devices with hotspot mode or UMPC mini-tablet, procedures for initial test position can be applied. Using the transmission mode determined by the DSSS procedure or initial test configuration, area scans are measured for all positions in an exposure condition. The test position with the highest extrapolated (peak) SAR is used as the initial test position. When reported SAR for the initial test position is ≤ 0.4 W/kg for 1g SAR and ≤ 1.0 W/kg for 10g SAR, no additional testing for the remaining test position is required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg for 1g SAR and ≤ 2.0 W/kg for 10g SAR or all test positions are measured.

10.6.5 2.4 GHz SAR test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either the fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- 1) When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS is that exposure configuration.
- 2) When the reported SAR is > 0.8 W/kg, SAR is required for that position using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

2.4 GHz 802.11 g/n OFDM are additionally evaluated for SAR if the highest reported SAR for 802.11b, adjusted by the ratio of the OFDM to DSSS specified maximum output power, is > 1.2 W/kg. When SAR is required for OFDM modes in 2.4 GHz band, the Initial Test Configuration Procedures should be followed.

10.6.6 OFDM Transmission Mode and SAR Test Channel Selection

For the 2.4 GHz and 5 GHz bands, when the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate and lowest order 802.11 a/g/n/ac mode. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11a, 802.11n and 802.11 ac or 802.11g and 802.11n with the same channel bandwidth, modulation and data rate etc., the lower order 802.11 mode i.e., 802.11a, then 802.11n and 802.11ac or 802.11g then 802.11n, is used for SAR measurement. When the maximum output power are the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

10.6.7 Initial Test Configuration Procedure

For OFDM, in both 2.4 GHz and 5 GHz bands, an initial test configuration is determined for each frequency band and aggregated band, according to the transmission mode with the highest maximum output power specified for SAR measurements. When the same maximum output power is specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration(s) with the largest channel bandwidth, lowest order modulation, and lowest data rate. If the average RF output powers of the highest identical transmission modes are within 0.25 dB of each other, mid channel of the transmission mode with highest average RF output power is the initial test channel. Otherwise, the channel of the transmission mode with the highest average RF output conducted power will be the initial test configuration.

When the reported SAR is ≤ 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurements.

10.6.8 Subsequent Test Configuration Procedures

For OFDM configurations in each frequency band and aggregated band, SAR is evaluated for initial test configuration using the fixed test position or the initial test position on procedure. When the highest reported SAR (for the initial test configuration), adjusted by the ratio of the specified maximum output power of the subsequent test configuration to initial test configuration, is ≤ 1.2 W/kg for 1g SAR and ≤ 3.0 W/kg for 10g SAR, no additional SAR tests for the subsequent test configurations are required.

11. Output Power Specifications

This device operates using the following maximum output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB publication 447498 D01v06.

Licensed bands

| Test Description | Test Procedure Used |
|------------------------|---|
| Conducted Output Power | - KDB 971168 D01 v03r01 - Section 5.2.4 - ANSI C63.26-2015 - Section 5.2.1 & 5.2.4.2 |

Test Overview

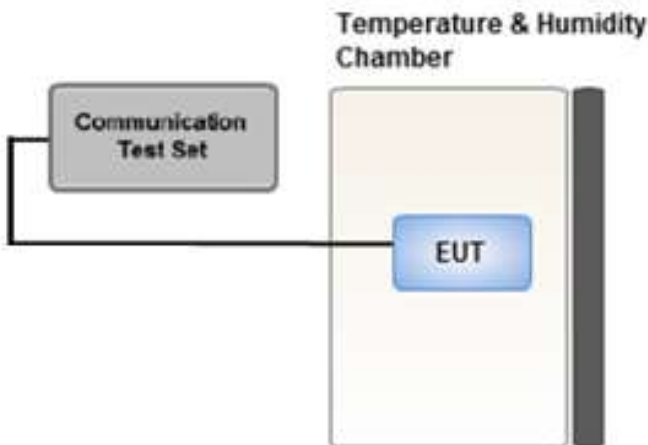
According to ANSI C63.26-2015 Section 5.2.1 when measuring the maximum RF output power from such devices, control over the EUT must be provided either through special test software (provided by manufacturer specifically for compliance testing, but not accessible by an end user) or through use of a base station emulator, communications test set, call box, or similar instrumentation that is capable of establishing a communications link with the EUT to enable control over variable parameters (e.g., output power, OBW, etc.).

In some cases, these instruments also include basic digital spectrum analyzer and/or power meter capabilities that can be utilized to measure the RF output power if the specified detectors and requirements can be realized and the measurement functions have been calibrated.

Test Procedure

1. The RF port of the EUT was connected to the Communication Tester via an RF cable.
2. Conducted average power was measured using a calibrated Radio Communication Tester.

Test setup



11.1 CDMA

11.1.1 CDMA Maximum Conducted Output Power

DSI = 0,2 P_{Limit} Calculations – Body-Worn, Phablet Max, Head SAR

Measured P_{max}

| Band | Ch. | SO2 | SO2 | SO55 | SO55 | TDSO | 1xEvDO | 1xEvDO | 1xEvDO | 1xEvDO |
|------------------|------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| | | RC1/1 | RC3/3 | RC1/1 | RC3/3 | SO32 | Rev.0 | Rev.0 | Rev.A | Rev.A |
| | | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | FTAP | RTAP | FETAP | RETAP |
| CDMA(BC0) | 1013 | 24.95 | 24.96 | 24.98 | 24.95 | 24.94 | 24.99 | 25.02 | 24.99 | 24.98 |
| | 384 | 24.80 | 24.82 | 24.83 | 24.83 | 24.83 | 24.85 | 24.85 | 24.82 | 24.83 |
| | 777 | 24.86 | 24.89 | 24.90 | 24.90 | 24.90 | 24.91 | 24.93 | 24.90 | 24.91 |
| PCS(BC1) | 25 | 23.59 | 23.60 | 23.62 | 23.61 | 23.60 | 23.62 | 23.63 | 23.62 | 23.64 |
| | 600 | 23.58 | 23.57 | 23.58 | 23.59 | 23.59 | 23.65 | 23.67 | 23.63 | 23.63 |
| | 1175 | 23.89 | 23.82 | 23.84 | 23.84 | 23.83 | 23.85 | 23.87 | 23.86 | 23.85 |
| Secondary (BC10) | 450 | 24.92 | 24.93 | 24.92 | 24.93 | 24.92 | 24.95 | 24.97 | 24.96 | 24.97 |
| | 560 | 24.93 | 24.94 | 24.95 | 24.95 | 24.95 | 24.95 | 24.95 | 24.96 | 24.95 |
| | 670 | 24.91 | 24.91 | 24.89 | 24.91 | 24.92 | 24.92 | 24.94 | 24.91 | 24.95 |

CDMA Average Conducted output powers (dBm)

11.2.2 CDMA Reduced Conducted Output Power (Hotspot mode activated)

DSI = 3 P_{Limit} Calculations - Hotspot SAR

| Band | Ch. | SO2 | SO2 | SO55 | SO55 | TDSO | 1xEvDO | 1xEvDO | 1xEvDO | 1xEvDO |
|----------|------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| | | RC1/1 | RC3/3 | RC1/1 | RC3/3 | SO32 | Rev.0 | Rev.0 | Rev.A | Rev.A |
| | | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | FTAP | RTAP | FETAP | RETAP |
| PCS(BC1) | 25 | 18.61 | 18.62 | 18.61 | 18.62 | 18.62 | 18.68 | 18.69 | 18.67 | 18.68 |
| | 600 | 18.59 | 18.61 | 18.58 | 18.60 | 18.62 | 18.66 | 18.68 | 18.66 | 18.65 |
| | 1175 | 18.82 | 18.84 | 18.83 | 18.85 | 18.85 | 18.92 | 18.92 | 18.90 | 18.89 |

CDMA Average Conducted output powers (dBm)

11.2.3 CDMA Reduced Conducted Output Power (Grip/Ear-jack Sensor on)

DSI = 1,4 P_{Limit} Calculations -Phablet, EARJACK Reduced SAR

| Band | Ch. | SO2 | SO2 | SO55 | SO55 | TDSO | 1xEvDO | 1xEvDO | 1xEvDO | 1xEvDO |
|----------|------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| | | RC1/1 | RC3/3 | RC1/1 | RC3/3 | SO32 | Rev.0 | Rev.0 | Rev.A | Rev.A |
| | | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | FTAP | RTAP | FETAP | RETAP |
| PCS(BC1) | 25 | 18.64 | 18.63 | 18.60 | 18.60 | 18.63 | 18.67 | 18.67 | 18.71 | 18.70 |
| | 600 | 18.58 | 18.60 | 18.59 | 18.61 | 18.61 | 18.65 | 18.64 | 18.66 | 18.67 |
| | 1175 | 18.84 | 18.86 | 18.84 | 18.85 | 18.85 | 18.89 | 18.91 | 18.90 | 18.89 |

CDMA Average Conducted output powers (dBm)

11.2 GSM

11.2.1 GSM Maximum Conducted Output Power

DSI = 0,2,4 P_{Limit} Calculations - 2G Body-Worn, Phablet Max, Head SAR, Ear-jack inserted mode

Measured P_{max}

| Mode / Band | Voice | GPRS(GMSK) Data – CS1(dBm) | | | | EDGE Data (dBm) | | | | |
|-------------|-------|----------------------------|----------------|----------------|----------------|-----------------|----------------|----------------|----------------|-------|
| | GSM | GPRS 1 TX Slot | GPRS 2 TX Slot | GPRS 3 TX Slot | GPRS 4 TX Slot | EDGE 1 TX Slot | EDGE 2 TX Slot | EDGE 3 TX Slot | EDGE 4 TX Slot | |
| Maximum | 33.5 | 33.5 | 32.5 | 30.5 | 28.5 | 28.0 | 26.0 | 24.5 | 23.5 | |
| Nominal | 32.5 | 32.5 | 31.5 | 29.5 | 27.5 | 27.0 | 25.0 | 23.5 | 22.5 | |
| GSM 850 | 128 | 31.77 | 31.78 | 31.74 | 29.47 | 27.42 | 26.63 | 25.04 | 22.9 | 21.82 |
| | 190 | 31.61 | 31.61 | 31.57 | 29.37 | 27.40 | 26.58 | 25.02 | 22.86 | 21.85 |
| | 251 | 31.73 | 31.69 | 31.35 | 29.18 | 27.28 | 26.60 | 24.95 | 22.81 | 21.72 |
| Maximum | 31.0 | 31.0 | 29.5 | 28.0 | 26.0 | 25.5 | 24.5 | 22.5 | 21.5 | |
| Nominal | 30.0 | 30.0 | 28.5 | 27.0 | 25.0 | 24.5 | 23.5 | 21.5 | 20.5 | |
| GSM 1900 | 512 | 28.98 | 28.84 | 28.01 | 26.43 | 24.32 | 24.51 | 23.51 | 21.86 | 20.77 |
| | 661 | 29.11 | 29.11 | 28.25 | 26.68 | 24.55 | 24.60 | 23.45 | 22.02 | 21.06 |
| | 810 | 29.21 | 29.20 | 28.21 | 26.74 | 24.56 | 24.52 | 23.41 | 22.00 | 21.03 |

GSM Conducted output powers (Burst-Average)

| Mode / Band | Voice | GPRS(GMSK) Data – CS1(dBm) | | | | EDGE Data (dBm) | | | | |
|-------------|-------|----------------------------|----------------|----------------|----------------|-----------------|----------------|----------------|----------------|-------|
| | GSM | GPRS 1 TX Slot | GPRS 2 TX Slot | GPRS 3 TX Slot | GPRS 4 TX Slot | EDGE 1 TX Slot | EDGE 2 TX Slot | EDGE 3 TX Slot | EDGE 4 TX Slot | |
| Maximum | 24.47 | 24.47 | 26.48 | 26.24 | 25.49 | 18.97 | 19.98 | 20.24 | 20.49 | |
| Nominal | 23.47 | 23.47 | 25.48 | 25.24 | 24.49 | 17.97 | 18.98 | 19.24 | 19.49 | |
| GSM 850 | 128 | 22.74 | 22.75 | 25.72 | 25.21 | 24.41 | 17.60 | 19.02 | 18.64 | 18.81 |
| | 190 | 22.58 | 22.58 | 25.55 | 25.11 | 24.39 | 17.55 | 19.00 | 18.60 | 18.84 |
| | 251 | 22.70 | 22.66 | 25.33 | 24.92 | 24.27 | 17.57 | 18.93 | 18.55 | 18.71 |
| Maximum | 21.97 | 21.97 | 23.48 | 23.74 | 22.99 | 16.47 | 18.48 | 18.24 | 18.49 | |
| Nominal | 20.97 | 20.97 | 22.48 | 22.74 | 21.99 | 15.47 | 17.48 | 17.24 | 17.49 | |
| GSM 1900 | 512 | 19.95 | 19.81 | 21.99 | 22.17 | 21.31 | 15.48 | 17.49 | 17.60 | 17.76 |
| | 661 | 20.08 | 20.08 | 22.23 | 22.42 | 21.54 | 15.57 | 17.43 | 17.76 | 18.05 |
| | 810 | 20.18 | 20.17 | 22.19 | 22.48 | 21.55 | 15.49 | 17.39 | 17.74 | 18.02 |

GSM Conducted output powers (Frame-Average)

Note:

Time slot average factor is as follows:

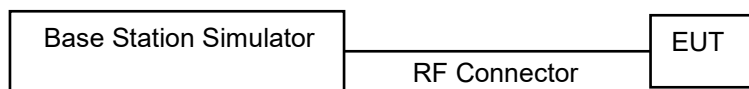
- 1 Tx slot = 9.03 dB, Frame-Average output power = Burst-Average output power – 9.03 dB
- 2 Tx slot = 6.02 dB, Frame-Average output power = Burst-Average output power – 6.02 dB
- 3 Tx slot = 4.26 dB, Frame-Average output power = Burst-Average output power – 4.26 dB
- 4 Tx slot = 3.01 dB, Frame-Average output power = Burst-Average output power – 3.01 dB

GSM Class : B

GSM voice: Head SAR , Body worn SAR

GPRS/EDGE Multi-slots 12 : Hotspot SAR with GPRS/EDGE

Multi-slot Class 12 with CS 1 (GMSK)



**11.2.2 GSM Reduced Conducted Output Power (Hotspot mode activated)
DSI = 3 P_{Limit} Calculations - 2G Hotspot SAR**

| Mode / Band | | Voice | GPRS(GMSK) Data – CS1(dBm) | | | | EDGE Data (dBm) | | | |
|-------------|-----|-------|----------------------------|----------------|----------------|----------------|-----------------|----------------|----------------|----------------|
| | | GSM | GPRS 1 TX Slot | GPRS 2 TX Slot | GPRS 3 TX Slot | GPRS 4 TX Slot | EDGE 1 TX Slot | EDGE 2 TX Slot | EDGE 3 TX Slot | EDGE 4 TX Slot |
| Maximum | | 28.0 | 28.0 | 26.5 | 25.0 | 23.0 | - | - | - | - |
| Nominal | | 27.0 | 27.0 | 25.5 | 24.0 | 22.0 | - | - | - | - |
| GSM 1900 | 512 | 26.67 | 26.65 | 25.55 | 23.81 | 21.52 | - | - | - | - |
| | 661 | 26.62 | 26.66 | 25.74 | 23.99 | 21.65 | - | - | - | - |
| | 810 | 26.22 | 26.28 | 25.47 | 23.63 | 21.71 | - | - | - | - |

GSM Conducted output powers (Burst-Average)

| Mode / Band | | Voice | GPRS(GMSK) Data – CS1(dBm) | | | | EDGE Data (dBm) | | | |
|-------------|-----|-------|----------------------------|----------------|----------------|----------------|-----------------|----------------|----------------|----------------|
| | | GSM | GPRS 1 TX Slot | GPRS 2 TX Slot | GPRS 3 TX Slot | GPRS 4 TX Slot | EDGE 1 TX Slot | EDGE 2 TX Slot | EDGE 3 TX Slot | EDGE 4 TX Slot |
| Maximum | | 18.97 | 18.97 | 20.48 | 20.74 | 19.99 | - | - | - | - |
| Nominal | | 17.97 | 17.97 | 19.48 | 19.74 | 18.99 | - | - | - | - |
| GSM 1900 | 512 | 17.64 | 17.62 | 19.53 | 19.55 | 18.51 | - | - | - | - |
| | 661 | 17.59 | 17.63 | 19.72 | 19.73 | 18.64 | - | - | - | - |
| | 810 | 17.19 | 17.25 | 19.45 | 19.37 | 18.70 | - | - | - | - |

GSM Conducted output powers (Frame-Average)

Note:

Time slot average factor is as follows:

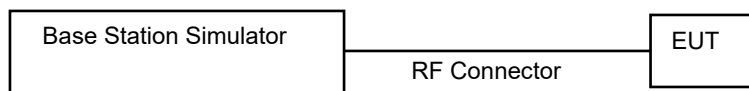
- 1 Tx slot = 9.03 dB, Frame-Average output power = Burst-Average output power – 9.03 dB
- 2 Tx slot = 6.02 dB, Frame-Average output power = Burst-Average output power – 6.02 dB
- 3 Tx slot = 4.26 dB, Frame-Average output power = Burst-Average output power – 4.26 dB
- 4 Tx slot = 3.01 dB, Frame-Average output power = Burst-Average output power – 3.01 dB

GSM Class : B

GSM voice/GPRS VOIP: Head SAR , Body worn SAR

GPRS/EDGE Multi-slots 12 : Hotspot SAR with GPRS/EDGE

Multi-slot Class 12 with CS 1 (GMSK)



11.2.3 GSM Reduced Conducted Output Power (Grip back Activated)
DSI = 1 P_{Limit} Calculations - 2G Phablet

| Mode / Band | | Voice | GPRS(GMSK) Data – CS1(dBm) | | | |
|-------------|-----|-------|----------------------------|----------------|----------------|----------------|
| | | GSM | GPRS 1 TX Slot | GPRS 2 TX Slot | GPRS 3 TX Slot | GPRS 4 TX Slot |
| Maximum | | 31.0 | 31.0 | 29.5 | 27.5 | 25.5 |
| Nominal | | 30.0 | 30.0 | 28.5 | 26.5 | 24.5 |
| GSM 850 | 128 | 29.68 | 29.66 | 28.57 | 26.69 | 24.52 |
| | 190 | 29.95 | 29.91 | 28.80 | 26.66 | 24.48 |
| | 251 | 29.68 | 29.63 | 28.49 | 26.51 | 24.28 |
| Maximum | | 28.0 | 28.0 | 26.5 | 25.0 | 23.0 |
| Nominal | | 27.0 | 27.0 | 25.5 | 24.0 | 22.0 |
| GSM 1900 | 512 | 26.35 | 26.29 | 25.33 | 23.56 | 21.39 |
| | 661 | 26.68 | 26.66 | 25.68 | 23.93 | 21.62 |
| | 810 | 26.34 | 26.31 | 25.45 | 23.62 | 21.70 |

GSM Conducted output powers (Burst-Average)

| Mode / Band | | Voice | GPRS(GMSK) Data – CS1(dBm) | | | |
|-------------|-----|-------|----------------------------|----------------|----------------|----------------|
| | | GSM | GPRS 1 TX Slot | GPRS 2 TX Slot | GPRS 3 TX Slot | GPRS 4 TX Slot |
| Maximum | | 21.97 | 21.97 | 23.48 | 23.24 | 22.49 |
| Nominal | | 20.97 | 20.97 | 22.48 | 22.24 | 21.49 |
| GSM 850 | 128 | 20.65 | 20.63 | 22.55 | 22.43 | 21.51 |
| | 190 | 20.92 | 20.88 | 22.78 | 22.40 | 21.47 |
| | 251 | 20.65 | 20.60 | 22.47 | 22.25 | 21.27 |
| Maximum | | 18.97 | 18.97 | 20.48 | 20.74 | 19.99 |
| Nominal | | 17.97 | 17.97 | 19.48 | 19.74 | 18.99 |
| GSM 1900 | 512 | 17.32 | 17.26 | 19.31 | 19.30 | 18.38 |
| | 661 | 17.65 | 17.63 | 19.66 | 19.67 | 18.61 |
| | 810 | 17.31 | 17.28 | 19.43 | 19.36 | 18.69 |

GSM Conducted output powers (Frame-Average)

Note:

Time slot average factor is as follows:

- 1 Tx slot = 9.03 dB, Frame-Average output power = Burst-Average output power – 9.03 dB
- 2 Tx slot = 6.02 dB, Frame-Average output power = Burst-Average output power – 6.02 dB
- 3 Tx slot = 4.26 dB, Frame-Average output power = Burst-Average output power – 4.26 dB
- 4 Tx slot = 3.01 dB, Frame-Average output power = Burst-Average output power – 3.01 dB

GSM Class : B
 GSM voice/GPRS VOIP: Head SAR , Body worn SAR
 GPRS/EDGE Multi-slots 12 : Hotspot SAR with GPRS/EDGE
 Multi-slot Class 12 with CS 1 (GMSK)



11.3 UMTS

HSPA+

This DUT is only capable of QPSK HSPA+ in uplink. Therefore, the RF conducted power is not measured according to 941225 D01v03r01 3G SAR.

11.3.1 UMTS Maximum Conducted Output Power

UMTS Band 5 Maximum Conducted Output Power(All DSI)

| 3GPP Release Version | Mode | 3GPP 34.121 | UMTS Band 5 [dBm] | | | 3GPP MPR |
|----------------------|----------|---------------|--------------------|--------------------|--------------------|----------|
| | | Subtest | UL 4132 DL 4357 | UL 4183 DL 4408 | UL 4233 DL 4458 | |
| 99 | UMTS | 12.2 kbps RMC | 23.72 | 23.60 | 23.65 | - |
| 99 | | 12.2 kbps AMR | 23.71 | 23.60 | 23.62 | - |
| 5 | HSDPA | Subtest 1 | 22.56 | 22.45 | 22.48 | 0 |
| 5 | | Subtest 2 | 22.55 | 22.44 | 22.49 | 0 |
| 5 | | Subtest 3 | 22.06 | 21.95 | 21.99 | 0.5 |
| 5 | | Subtest 4 | 22.05 | 21.96 | 21.98 | 0.5 |
| 6 | HSUPA | Subtest 1 | 22.57 | 22.45 | 22.48 | 0 |
| 6 | | Subtest 2 | 20.56 | 20.47 | 20.50 | 2 |
| 6 | | Subtest 3 | 21.56 | 21.44 | 21.52 | 1 |
| 6 | | Subtest 4 | 20.57 | 20.45 | 20.48 | 2 |
| 6 | | Subtest 5 | 22.57 | 22.47 | 22.50 | 0 |
| 8 | DC-HSDPA | Subtest 1 | 22.32 | 22.25 | 22.35 | 0 |
| 8 | | Subtest 2 | 22.30 | 22.27 | 22.34 | 0 |
| 8 | | Subtest 3 | 21.81 | 21.76 | 21.87 | 0.5 |
| 8 | | Subtest 4 | 21.79 | 21.74 | 21.82 | 0.5 |

UMTS Average Conducted output powers

UMTS Band 4 Maximum Conducted Output Power(DSI = 0,2)

| 3GPP Release Version | Mode | 3GPP 34.121 | UMTS Band 5 [dBm] | | | 3GPP MPR |
|----------------------|----------|---------------|--------------------|--------------------|--------------------|----------|
| | | Subtest | UL 1312 DL 1537 | UL 1412 DL 1637 | UL 1513 DL 1738 | |
| 99 | UMTS | 12.2 kbps RMC | 23.09 | 23.22 | 23.30 | - |
| 99 | | 12.2 kbps AMR | 23.07 | 23.23 | 23.30 | - |
| 5 | HSDPA | Subtest 1 | 22.01 | 22.12 | 22.21 | 0 |
| 5 | | Subtest 2 | 22.01 | 22.13 | 22.21 | 0 |
| 5 | | Subtest 3 | 21.51 | 21.63 | 21.70 | 0.5 |
| 5 | | Subtest 4 | 21.51 | 21.64 | 21.72 | 0.5 |
| 6 | HSUPA | Subtest 1 | 22.00 | 22.12 | 22.22 | 0 |
| 6 | | Subtest 2 | 20.01 | 20.14 | 20.21 | 2 |
| 6 | | Subtest 3 | 21.02 | 21.12 | 21.20 | 1 |
| 6 | | Subtest 4 | 20.02 | 20.13 | 20.22 | 2 |
| 6 | | Subtest 5 | 22.01 | 22.12 | 22.21 | 0 |
| 8 | DC-HSDPA | Subtest 1 | 22.05 | 22.41 | 22.39 | 0 |
| 8 | | Subtest 2 | 22.06 | 22.42 | 22.39 | 0 |
| 8 | | Subtest 3 | 21.56 | 21.94 | 21.88 | 0.5 |
| 8 | | Subtest 4 | 21.54 | 21.90 | 21.88 | 0.5 |

UMTS Average Conducted output powers

UMTS Band 2 Maximum Conducted Output Power(DSI = 0,2)

| 3GPP Release Version | Mode | 3GPP 34.121 | UMTS Band 2 [dBm] | | | 3GPP MPR |
|----------------------|----------|---------------|--------------------|--------------------|--------------------|----------|
| | | Subtest | UL 9262 DL 9662 | UL 9400 DL 9800 | UL 9538 DL 9938 | |
| 99 | UMTS | 12.2 kbps RMC | 23.43 | 23.45 | 23.62 | - |
| 99 | | 12.2 kbps AMR | 23.44 | 23.46 | 23.63 | - |
| 5 | HSDPA | Subtest 1 | 22.33 | 22.37 | 22.59 | 0 |
| 5 | | Subtest 2 | 22.36 | 22.37 | 22.59 | 0 |
| 5 | | Subtest 3 | 21.85 | 21.88 | 22.09 | 0.5 |
| 5 | | Subtest 4 | 21.86 | 21.88 | 22.09 | 0.5 |
| 6 | HSUPA | Subtest 1 | 22.35 | 22.37 | 22.59 | 0 |
| 6 | | Subtest 2 | 20.35 | 20.37 | 20.59 | 2 |
| 6 | | Subtest 3 | 21.33 | 21.38 | 21.58 | 1 |
| 6 | | Subtest 4 | 20.35 | 20.38 | 20.57 | 2 |
| 6 | | Subtest 5 | 22.35 | 22.35 | 22.56 | 0 |
| 8 | DC-HSDPA | Subtest 1 | 22.00 | 22.10 | 22.28 | 0 |
| 8 | | Subtest 2 | 21.99 | 22.09 | 22.27 | 0 |
| 8 | | Subtest 3 | 21.49 | 21.59 | 21.77 | 0.5 |
| 8 | | Subtest 4 | 21.51 | 21.61 | 21.76 | 0.5 |

UMTS Average Conducted output powers

DC-HSDPA Configurations

- ◆ 3GPP specification TS 34.121-1 Release 8. was used for used for DC-HSDPA guidance.
- ◆ H-set 12(QPSK)was conformed to be used during DC-HSDPA measurements.



**11.3.2 UMTS Reduced Conducted Output Power (Hotspot mode activated)
DSI = 3 P_{Limit} Calculations - 3G Hotspot SAR**

UMTS Band 4 Hotspot Back-off Power(DSI= 3)

| 3GPP Release Version | Mode | 3GPP 34.121 | UMTS Band 2 [dBm] | | | 3GPP MPR |
|----------------------|----------|---------------|--------------------|--------------------|--------------------|----------|
| | | Subtest | UL 1312 DL 1537 | UL 1412 DL 1637 | UL 1513 DL 1738 | |
| 99 | UMTS | 12.2 kbps RMC | 18.09 | 18.25 | 18.34 | - |
| 99 | | 12.2 kbps AMR | 18.10 | 18.24 | 18.33 | |
| 5 | HSDPA | Subtest 1 | 16.97 | 17.11 | 17.20 | 0 |
| 5 | | Subtest 2 | 16.96 | 17.14 | 17.20 | 0 |
| 5 | | Subtest 3 | 16.46 | 16.65 | 16.70 | 0.5 |
| 5 | | Subtest 4 | 16.48 | 16.65 | 16.71 | 0.5 |
| 6 | HSUPA | Subtest 1 | 16.96 | 17.11 | 17.19 | 0 |
| 6 | | Subtest 2 | 14.96 | 15.12 | 15.19 | 2 |
| 6 | | Subtest 3 | 15.95 | 16.12 | 16.19 | 1 |
| 6 | | Subtest 4 | 14.95 | 15.12 | 15.19 | 2 |
| 6 | | Subtest 5 | 16.97 | 17.11 | 17.16 | 0 |
| 8 | DC-HSDPA | Subtest 1 | 16.79 | 17.01 | 17.08 | 0 |
| 8 | | Subtest 2 | 16.75 | 16.97 | 17.08 | 0 |
| 8 | | Subtest 3 | 16.26 | 16.48 | 16.57 | 0.5 |
| 8 | | Subtest 4 | 16.25 | 16.50 | 16.57 | 0.5 |

UMTS Average Conducted output powers

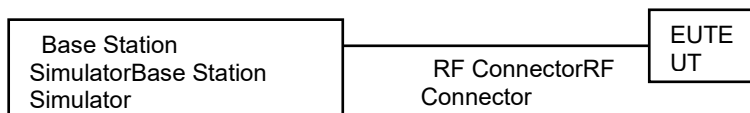
UMTS Band 2 Hotspot Back-off Power (DSI= 3)

| 3GPP Release Version | Mode | 3GPP 34.121 | UMTS Band 2 [dBm] | | | 3GPP MPR |
|----------------------|----------|---------------|--------------------|--------------------|--------------------|----------|
| | | Subtest | UL 9262 DL 9662 | UL 9400 DL 9800 | UL 9538 DL 9938 | |
| 99 | UMTS | 12.2 kbps RMC | 18.47 | 18.46 | 18.69 | - |
| 99 | | 12.2 kbps AMR | 18.47 | 18.47 | 18.68 | |
| 5 | HSDPA | Subtest 1 | 17.30 | 17.36 | 17.61 | 0 |
| 5 | | Subtest 2 | 17.33 | 17.36 | 17.62 | 0 |
| 5 | | Subtest 3 | 16.83 | 16.85 | 17.10 | 0.5 |
| 5 | | Subtest 4 | 16.84 | 16.86 | 17.11 | 0.5 |
| 6 | HSUPA | Subtest 1 | 17.32 | 17.36 | 17.61 | 0 |
| 6 | | Subtest 2 | 15.32 | 15.36 | 15.61 | 2 |
| 6 | | Subtest 3 | 16.30 | 16.35 | 16.59 | 1 |
| 6 | | Subtest 4 | 15.33 | 15.35 | 15.60 | 2 |
| 6 | | Subtest 5 | 17.31 | 17.34 | 17.60 | 0 |
| 8 | DC-HSDPA | Subtest 1 | 17.07 | 17.20 | 17.44 | 0 |
| 8 | | Subtest 2 | 17.07 | 17.19 | 17.42 | 0 |
| 8 | | Subtest 3 | 16.59 | 16.68 | 16.94 | 0.5 |
| 8 | | Subtest 4 | 16.59 | 16.71 | 16.92 | 0.5 |

UMTS Average Conducted output powers

DC-HSDPA Configurations

- ◆ 3GPP specification TS 34.121-1 Release 8. was used for used for DC-HSDPA guidance.
- ◆ H-set 12(QPSK) was conformed to be used during DC-HSDPA measurements.



11.3.3 UMTS Reduced Conducted Output Power – (Grip back Activated/ Ear jack Activated)
DSI = 1,4 P_{Limit} Calculations - 3G Phablet Reduced SAR

UMTS Band 4 Grip Back-off Power (DSI=1.4)

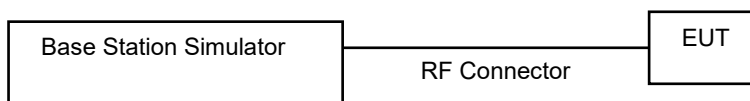
| 3GPP Release Version | Mode | 3GPP 34.121 | UMTS Band 2 [dBm] | | | 3GPP MPR |
|----------------------|----------|---------------|--------------------|--------------------|--------------------|----------|
| | | Subtest | UL 1312 DL 1537 | UL 1412 DL 1637 | UL 1513 DL 1738 | |
| 99 | UMTS | 12.2 kbps RMC | 18.10 | 18.26 | 18.34 | - |
| 99 | | 12.2 kbps AMR | 18.08 | 18.25 | 18.33 | |
| 5 | HSDPA | Subtest 1 | 16.95 | 17.12 | 17.20 | 0 |
| 5 | | Subtest 2 | 16.97 | 17.14 | 17.22 | 0 |
| 5 | | Subtest 3 | 16.45 | 16.64 | 16.70 | 0.5 |
| 5 | | Subtest 4 | 16.45 | 16.62 | 16.70 | 0.5 |
| 6 | HSUPA | Subtest 1 | 16.97 | 17.10 | 17.16 | 0 |
| 6 | | Subtest 2 | 14.97 | 15.13 | 15.20 | 2 |
| 6 | | Subtest 3 | 15.96 | 16.11 | 16.19 | 1 |
| 6 | | Subtest 4 | 14.97 | 15.12 | 15.18 | 2 |
| 6 | | Subtest 5 | 16.99 | 17.11 | 17.18 | 0 |
| 8 | DC-HSDPA | Subtest 1 | 16.79 | 16.99 | 17.07 | 0 |
| 8 | | Subtest 2 | 16.78 | 16.99 | 17.05 | 0 |
| 8 | | Subtest 3 | 16.29 | 16.48 | 16.54 | 0.5 |
| 8 | | Subtest 4 | 16.27 | 16.46 | 16.55 | 0.5 |

UMTS Average Conducted output powers

UMTS Band 2 Grip back-off Power(DSI=1.4)

| 3GPP Release Version | Mode | 3GPP 34.121 | UMTS Band 2 [dBm] | | | 3GPP MPR |
|----------------------|----------|---------------|--------------------|--------------------|--------------------|----------|
| | | Subtest | UL 9262 DL 9662 | UL 9400 DL 9800 | UL 9538 DL 9938 | |
| 99 | UMTS | 12.2 kbps RMC | 18.48 | 18.48 | 18.70 | - |
| 99 | | 12.2 kbps AMR | 18.48 | 18.47 | 18.70 | |
| 5 | HSDPA | Subtest 1 | 17.31 | 17.35 | 17.61 | 0 |
| 5 | | Subtest 2 | 17.32 | 17.35 | 17.61 | 0 |
| 5 | | Subtest 3 | 16.82 | 16.86 | 17.09 | 0.5 |
| 5 | | Subtest 4 | 16.82 | 16.86 | 17.10 | 0.5 |
| 6 | HSUPA | Subtest 1 | 17.32 | 17.36 | 17.62 | 0 |
| 6 | | Subtest 2 | 15.33 | 15.39 | 15.61 | 2 |
| 6 | | Subtest 3 | 16.33 | 16.36 | 16.62 | 1 |
| 6 | | Subtest 4 | 15.34 | 15.37 | 15.60 | 2 |
| 6 | | Subtest 5 | 17.32 | 17.35 | 17.59 | 0 |
| 8 | DC-HSDPA | Subtest 1 | 17.07 | 17.19 | 17.44 | 0 |
| 8 | | Subtest 2 | 17.08 | 17.20 | 17.43 | 0 |
| 8 | | Subtest 3 | 16.60 | 16.69 | 16.92 | 0.5 |
| 8 | | Subtest 4 | 16.60 | 16.68 | 16.92 | 0.5 |

- ◆ 3GPP specification TS 34.121-1 Release 8. was used for used for DC-HSDPA guidance.
- ◆ H-set 12(QPSK) was conformed to be used during DC-HSDPA measurements.



11.4 LTE Maximum Output Power

LTE B2/4/5/7/12/13/14/25/26/30/40 at 20 MHz Bandwidth does not support three non-overlapping channels. Per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the mid channel of the group of overlapping channels should be selected for testing.

11.4.1 LTE Maximum Conducted Power

DSI = 0,2 PLimit Calculations - 4G Body-Worn, Phablet Max, Head SAR

[LTE Band 2 Conducted Power DSI = 0,2]

LTE Band 2 _ 1.4 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 18607 Ch. 1850.7 MHz | 18900 Ch. 1880 MHz | 19193 Ch. 1909.3 MHz | | |
| 1.4 MHz | QPSK | 1 | 0 | 23.72 | 23.69 | 23.76 | 0 | 0 |
| | | 1 | 3 | 23.75 | 23.67 | 23.80 | 0 | 0 |
| | | 1 | 5 | 23.68 | 23.60 | 23.70 | 0 | 0 |
| | | 3 | 0 | 23.72 | 23.67 | 23.76 | 0 | 0 |
| | | 3 | 1 | 23.80 | 23.70 | 23.81 | 0 | 0 |
| | | 3 | 3 | 23.71 | 23.64 | 23.75 | 0 | 0 |
| | | 6 | 0 | 22.81 | 22.70 | 22.87 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 23.08 | 23.00 | 23.13 | 0-1 | 1 |
| | | 1 | 3 | 23.11 | 23.05 | 23.13 | 0-1 | 1 |
| | | 1 | 5 | 23.02 | 22.91 | 23.07 | 0-1 | 1 |
| | | 3 | 0 | 22.88 | 22.82 | 22.90 | 0-1 | 1 |
| | | 3 | 1 | 22.92 | 22.85 | 22.96 | 0-1 | 1 |
| | | 3 | 3 | 22.84 | 22.77 | 22.90 | 0-1 | 1 |
| | 64QAM | 6 | 0 | 21.93 | 21.78 | 21.91 | 0-2 | 2 |
| | | 1 | 0 | 22.00 | 21.94 | 22.05 | 0-2 | 2 |
| | | 1 | 3 | 22.06 | 21.99 | 22.10 | 0-2 | 2 |
| | | 1 | 5 | 21.96 | 21.89 | 22.00 | 0-2 | 2 |
| | | 3 | 0 | 21.97 | 21.86 | 22.02 | 0-2 | 2 |
| | | 3 | 1 | 22.03 | 21.95 | 22.05 | 0-2 | 2 |
| | | 3 | 3 | 21.95 | 21.86 | 21.97 | 0-2 | 2 |
| | | 6 | 0 | 20.88 | 20.76 | 20.89 | 0-3 | 3 |

LTE Band 2 _ 3 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 18615 Ch. 1851.5 MHz | 18900 Ch. 1880 MHz | 19185 Ch. 1908.5 MHz | | |
| 3 MHz | QPSK | 1 | 0 | 23.88 | 23.73 | 23.94 | 0 | 0 |
| | | 1 | 7 | 23.85 | 23.76 | 23.89 | 0 | 0 |
| | | 1 | 14 | 23.72 | 23.66 | 23.78 | 0 | 0 |
| | | 8 | 0 | 22.95 | 22.77 | 22.95 | 0-1 | 1 |
| | | 8 | 3 | 22.98 | 22.83 | 22.97 | 0-1 | 1 |
| | | 8 | 7 | 22.89 | 22.76 | 22.89 | 0-1 | 1 |
| | 16QAM | 15 | 0 | 22.92 | 22.79 | 22.92 | 0-1 | 1 |
| | | 1 | 0 | 23.22 | 23.05 | 23.19 | 0-1 | 1 |
| | | 1 | 7 | 23.18 | 23.09 | 23.14 | 0-1 | 1 |
| | | 1 | 14 | 23.08 | 22.98 | 23.13 | 0-1 | 1 |
| | | 8 | 0 | 22.02 | 21.83 | 22.03 | 0-2 | 2 |
| | | 8 | 3 | 22.04 | 21.94 | 22.03 | 0-2 | 2 |
| | 64QAM | 8 | 7 | 21.97 | 21.80 | 21.99 | 0-2 | 2 |
| | | 15 | 0 | 21.94 | 21.86 | 21.98 | 0-2 | 2 |
| | | 1 | 0 | 22.07 | 21.98 | 22.11 | 0-2 | 2 |
| | | 1 | 7 | 22.06 | 21.97 | 22.16 | 0-2 | 2 |
| | | 1 | 14 | 22.04 | 21.93 | 22.08 | 0-2 | 2 |
| | | 8 | 0 | 21.02 | 20.82 | 21.03 | 0-3 | 3 |
| | 8 | 3 | 21.01 | 20.90 | 21.05 | 0-3 | 3 | |
| | 8 | 7 | 20.96 | 20.82 | 20.97 | 0-3 | 3 | |
| | 15 | 0 | 20.98 | 20.83 | 20.96 | 0-3 | 3 | |

LTE Band 2 _ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 18625 Ch. 1852.5 MHz | 18900 Ch. 1880 MHz | 19175 Ch. 1907.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 23.79 | 23.67 | 23.77 | 0 | 0 |
| | | 1 | 12 | 23.84 | 23.75 | 23.89 | 0 | 0 |
| | | 1 | 24 | 23.69 | 23.60 | 23.75 | 0 | 0 |
| | | 12 | 0 | 22.98 | 22.80 | 22.92 | 0-1 | 1 |
| | | 12 | 6 | 22.96 | 22.87 | 22.92 | 0-1 | 1 |
| | | 12 | 11 | 22.93 | 22.76 | 22.91 | 0-1 | 1 |
| | 16QAM | 25 | 0 | 22.89 | 22.80 | 22.88 | 0-1 | 1 |
| | | 1 | 0 | 23.13 | 22.97 | 23.12 | 0-1 | 1 |
| | | 1 | 12 | 23.19 | 23.10 | 23.20 | 0-1 | 1 |
| | | 1 | 24 | 23.02 | 22.96 | 23.12 | 0-1 | 1 |
| | | 12 | 0 | 21.99 | 21.80 | 21.95 | 0-2 | 2 |
| | | 12 | 6 | 22.00 | 21.85 | 21.93 | 0-2 | 2 |
| | 64QAM | 12 | 11 | 21.91 | 21.81 | 21.97 | 0-2 | 2 |
| | | 25 | 0 | 21.93 | 21.82 | 21.88 | 0-2 | 2 |
| | | 1 | 0 | 22.01 | 21.93 | 21.99 | 0-2 | 2 |
| | | 1 | 12 | 22.08 | 22.00 | 22.15 | 0-2 | 2 |
| | | 1 | 24 | 21.96 | 21.87 | 22.03 | 0-2 | 2 |
| | | 12 | 0 | 21.01 | 20.87 | 20.97 | 0-3 | 3 |
| | 12 | 6 | 21.05 | 20.92 | 20.97 | 0-3 | 3 | |
| | 12 | 11 | 20.96 | 20.83 | 20.98 | 0-3 | 3 | |
| | 25 | 0 | 20.97 | 20.85 | 20.88 | 0-3 | 3 | |

LTE Band 2 _ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] | |
|-----------|------------|---------|-----------|--------------------------|--------------------|--------------------|---------------------------|----------|---|
| | | | | 18650 Ch. 1855 MHz | 18900 Ch. 1880 MHz | 19150 Ch. 1905 MHz | | | |
| 10 MHz | QPSK | 1 | 0 | 23.55 | 23.52 | 23.75 | 0 | 0 | |
| | | 1 | 24 | 23.79 | 23.72 | 23.79 | 0 | 0 | |
| | | 1 | 49 | 23.49 | 23.49 | 23.80 | 0 | 0 | |
| | | 25 | 0 | 22.86 | 22.69 | 22.74 | 0-1 | 1 | |
| | | 25 | 12 | 22.92 | 22.84 | 22.92 | 0-1 | 1 | |
| | | 25 | 24 | 22.82 | 22.71 | 22.87 | 0-1 | 1 | |
| | 16QAM | 50 | 0 | 22.83 | 22.72 | 22.83 | 0-1 | 1 | |
| | | 1 | 0 | 22.87 | 22.85 | 23.16 | 0-1 | 1 | |
| | | 1 | 24 | 23.16 | 23.11 | 23.22 | 0-1 | 1 | |
| | | 1 | 49 | 22.86 | 22.79 | 23.20 | 0-1 | 1 | |
| | | 25 | 0 | 21.85 | 21.68 | 21.75 | 0-2 | 2 | |
| | | 25 | 12 | 21.95 | 21.84 | 21.94 | 0-2 | 2 | |
| | 64QAM | 25 | 24 | 21.80 | 21.73 | 21.84 | 0-2 | 2 | |
| | | 50 | 0 | 21.84 | 21.74 | 21.83 | 0-2 | 2 | |
| | | 1 | 0 | 21.80 | 21.64 | 22.06 | 0-2 | 2 | |
| | | 1 | 24 | 22.08 | 21.92 | 22.09 | 0-2 | 2 | |
| | | 1 | 49 | 21.76 | 21.66 | 22.11 | 0-2 | 2 | |
| | | 25 | 0 | 20.88 | 20.71 | 20.77 | 0-3 | 3 | |
| | | 64QAM | 25 | 12 | 20.99 | 20.91 | 20.99 | 0-3 | 3 |
| | | | 25 | 24 | 20.86 | 20.76 | 20.89 | 0-3 | 3 |
| | | | 50 | 0 | 20.87 | 20.77 | 20.86 | 0-3 | 3 |

LTE Band 2 _ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 18675 Ch. 1857.5 MHz | 18900 Ch. 1880 MHz | 19125 Ch. 1902.5 MHz | | |
| 15 MHz | QPSK | 1 | 0 | 23.64 | 23.61 | 23.63 | 0 | 0 |
| | | 1 | 36 | 23.71 | 23.58 | 23.66 | 0 | 0 |
| | | 1 | 74 | 23.54 | 23.52 | 23.74 | 0 | 0 |
| | | 36 | 0 | 22.82 | 22.63 | 22.64 | 0-1 | 1 |
| | | 36 | 18 | 22.86 | 22.68 | 22.76 | 0-1 | 1 |
| | | 36 | 39 | 22.82 | 22.72 | 22.84 | 0-1 | 1 |
| | | 75 | 0 | 22.80 | 22.69 | 22.72 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.93 | 22.96 | 22.99 | 0-1 | 1 |
| | | 1 | 36 | 23.01 | 22.97 | 23.01 | 0-1 | 1 |
| | | 1 | 74 | 22.93 | 22.90 | 23.05 | 0-1 | 1 |
| | | 36 | 0 | 21.79 | 21.62 | 21.67 | 0-2 | 2 |
| | | 36 | 18 | 21.86 | 21.69 | 21.74 | 0-2 | 2 |
| | | 36 | 39 | 21.79 | 21.73 | 21.85 | 0-2 | 2 |
| | | 75 | 0 | 21.82 | 21.74 | 21.71 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 21.81 | 21.87 | 21.85 | 0-2 | 2 |
| | | 1 | 36 | 21.94 | 21.87 | 21.92 | 0-2 | 2 |
| | | 1 | 74 | 21.80 | 21.81 | 21.97 | 0-2 | 2 |
| | | 36 | 0 | 20.86 | 20.69 | 20.75 | 0-3 | 3 |
| | | 36 | 18 | 20.91 | 20.73 | 20.81 | 0-3 | 3 |
| | | 36 | 39 | 20.84 | 20.77 | 20.87 | 0-3 | 3 |
| | | 75 | 0 | 20.84 | 20.74 | 20.72 | 0-3 | 3 |

LTE Band 2 _ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|--------------------|---------------------------|----------|
| | | | | 18700 Ch. 1860 MHz | 18900 Ch. 1880 MHz | 19100 Ch. 1900 MHz | | |
| 20 MHz | QPSK | 1 | 0 | 23.77 | 23.66 | 23.59 | 0 | 0 |
| | | 1 | 49 | 23.65 | 23.61 | 23.57 | 0 | 0 |
| | | 1 | 99 | 23.48 | 23.57 | 23.78 | 0 | 0 |
| | | 50 | 0 | 22.80 | 22.61 | 22.61 | 0-1 | 1 |
| | | 50 | 25 | 22.85 | 22.78 | 22.70 | 0-1 | 1 |
| | | 50 | 49 | 22.77 | 22.69 | 22.79 | 0-1 | 1 |
| | 16QAM | 100 | 0 | 22.78 | 22.72 | 22.63 | 0-1 | 1 |
| | | 1 | 0 | 23.17 | 23.07 | 22.94 | 0-1 | 1 |
| | | 1 | 49 | 23.04 | 22.92 | 23.00 | 0-1 | 1 |
| | | 1 | 99 | 22.95 | 22.86 | 22.91 | 0-1 | 1 |
| | | 50 | 0 | 21.78 | 21.62 | 21.60 | 0-2 | 2 |
| | | 50 | 25 | 21.85 | 21.79 | 21.73 | 0-2 | 2 |
| | 64QAM | 50 | 49 | 21.76 | 21.71 | 21.82 | 0-2 | 2 |
| | | 100 | 0 | 21.78 | 21.69 | 21.69 | 0-2 | 2 |
| | | 1 | 0 | 21.97 | 21.82 | 21.77 | 0-2 | 2 |
| | | 1 | 49 | 21.87 | 21.81 | 21.82 | 0-2 | 2 |
| | | 1 | 99 | 21.81 | 21.79 | 21.87 | 0-2 | 2 |
| | | 50 | 0 | 20.83 | 20.65 | 20.66 | 0-3 | 3 |
| | | 50 | 25 | 20.87 | 20.79 | 20.77 | 0-3 | 3 |
| | | 50 | 49 | 20.80 | 20.71 | 20.83 | 0-3 | 3 |
| | | 100 | 0 | 20.80 | 20.72 | 20.67 | 0-3 | 3 |

[LTE Band 4 Conducted Power DSI = 0,2]

LTE Band 4 _ 1.4 Mhz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 19957 Ch. 1710.7 MHz | 20175 Ch. 1732.5 MHz | 20393 Ch. 1754.3 MHz | | |
| 1.4 Mhz | QPSK | 1 | 0 | 23.52 | 23.50 | 23.78 | 0 | 0 |
| | | 1 | 3 | 23.61 | 23.61 | 23.80 | 0 | 0 |
| | | 1 | 5 | 23.55 | 23.56 | 23.75 | 0 | 0 |
| | | 3 | 0 | 23.58 | 23.54 | 23.78 | 0 | 0 |
| | | 3 | 1 | 23.63 | 23.67 | 23.80 | 0 | 0 |
| | | 3 | 3 | 23.53 | 23.61 | 23.77 | 0 | 0 |
| | 16QAM | 6 | 0 | 22.67 | 22.70 | 22.84 | 0-1 | 1 |
| | | 1 | 0 | 22.84 | 22.89 | 23.12 | 0-1 | 1 |
| | | 1 | 3 | 22.94 | 22.95 | 23.14 | 0-1 | 1 |
| | | 1 | 5 | 22.89 | 22.89 | 23.09 | 0-1 | 1 |
| | | 3 | 0 | 22.68 | 22.69 | 22.92 | 0-1 | 1 |
| | | 3 | 1 | 22.74 | 22.79 | 22.97 | 0-1 | 1 |
| | 64QAM | 3 | 3 | 22.68 | 22.72 | 22.86 | 0-1 | 1 |
| | | 6 | 0 | 21.75 | 21.75 | 21.92 | 0-2 | 2 |
| | | 1 | 0 | 21.79 | 21.80 | 22.05 | 0-2 | 2 |
| | | 1 | 3 | 21.85 | 21.94 | 22.07 | 0-2 | 2 |
| | | 1 | 5 | 21.83 | 21.87 | 22.03 | 0-2 | 2 |
| | | 3 | 0 | 21.82 | 21.77 | 22.01 | 0-2 | 2 |
| | | 3 | 1 | 21.81 | 21.90 | 22.08 | 0-2 | 2 |
| | | 3 | 3 | 21.81 | 21.82 | 21.98 | 0-2 | 2 |
| | | 6 | 0 | 20.72 | 20.76 | 20.84 | 0-3 | 3 |

LTE Band 4 _ 3 Mhz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 19965 Ch. 1711.5 MHz | 20175 Ch. 1732.5 MHz | 20385 Ch. 1753.5 MHz | | |
| 3 Mhz | QPSK | 1 | 0 | 23.61 | 23.65 | 23.83 | 0 | 0 |
| | | 1 | 7 | 23.70 | 23.71 | 23.89 | 0 | 0 |
| | | 1 | 14 | 23.60 | 23.66 | 23.81 | 0 | 0 |
| | | 8 | 0 | 22.73 | 22.76 | 22.83 | 0-1 | 1 |
| | | 8 | 3 | 22.81 | 22.74 | 22.92 | 0-1 | 1 |
| | | 8 | 7 | 22.72 | 22.78 | 22.88 | 0-1 | 1 |
| | | 15 | 0 | 22.74 | 22.76 | 22.93 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.95 | 22.95 | 23.16 | 0-1 | 1 |
| | | 1 | 7 | 22.96 | 23.00 | 23.16 | 0-1 | 1 |
| | | 1 | 14 | 22.94 | 22.98 | 23.12 | 0-1 | 1 |
| | | 8 | 0 | 21.78 | 21.82 | 21.95 | 0-2 | 2 |
| | | 8 | 3 | 21.86 | 21.84 | 22.00 | 0-2 | 2 |
| | | 8 | 7 | 21.81 | 21.84 | 21.93 | 0-2 | 2 |
| | | 15 | 0 | 21.80 | 21.79 | 21.94 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 21.89 | 21.93 | 22.10 | 0-2 | 2 |
| | | 1 | 7 | 21.88 | 21.94 | 22.12 | 0-2 | 2 |
| | | 1 | 14 | 21.86 | 21.94 | 22.03 | 0-2 | 2 |
| | | 8 | 0 | 20.81 | 20.81 | 20.94 | 0-3 | 3 |
| | | 8 | 3 | 20.86 | 20.83 | 21.00 | 0-3 | 3 |
| | | 8 | 7 | 20.81 | 20.85 | 20.95 | 0-3 | 3 |
| | | 15 | 0 | 20.78 | 20.76 | 20.97 | 0-3 | 3 |

LTE Band 4 _ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 19975 Ch. 1712.5 MHz | 20175 Ch. 1732.5 MHz | 20375 Ch. 1752.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 23.57 | 23.60 | 23.78 | 0 | 0 |
| | | 1 | 12 | 23.74 | 23.74 | 23.91 | 0 | 0 |
| | | 1 | 24 | 23.58 | 23.59 | 23.76 | 0 | 0 |
| | | 12 | 0 | 22.69 | 22.72 | 22.86 | 0-1 | 1 |
| | | 12 | 6 | 22.78 | 22.75 | 22.89 | 0-1 | 1 |
| | | 12 | 11 | 22.77 | 22.79 | 22.88 | 0-1 | 1 |
| | 16QAM | 25 | 0 | 22.76 | 22.71 | 22.86 | 0-1 | 1 |
| | | 1 | 0 | 22.90 | 22.94 | 23.10 | 0-1 | 1 |
| | | 1 | 12 | 23.00 | 23.03 | 23.20 | 0-1 | 1 |
| | | 1 | 24 | 22.91 | 22.92 | 23.08 | 0-1 | 1 |
| | | 12 | 0 | 21.74 | 21.81 | 21.91 | 0-2 | 2 |
| | | 12 | 6 | 21.81 | 21.80 | 21.95 | 0-2 | 2 |
| | 64QAM | 12 | 11 | 21.79 | 21.79 | 21.89 | 0-2 | 2 |
| | | 25 | 0 | 21.80 | 21.73 | 21.85 | 0-2 | 2 |
| | | 1 | 0 | 21.78 | 21.83 | 22.09 | 0-2 | 2 |
| | | 1 | 12 | 21.92 | 21.98 | 22.17 | 0-2 | 2 |
| | | 1 | 24 | 21.82 | 21.87 | 22.03 | 0-2 | 2 |
| | | 12 | 0 | 20.77 | 20.83 | 20.97 | 0-3 | 3 |
| | | 12 | 6 | 20.84 | 20.88 | 20.97 | 0-3 | 3 |
| | | | 11 | 20.81 | 20.86 | 20.95 | 0-3 | 3 |
| | | 25 | 0 | 20.80 | 20.75 | 20.88 | 0-3 | 3 |

LTE Band 4 _ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|----------------------|--------------------|---------------------------|----------|
| | | | | 20000 Ch. 1715 MHz | 20175 Ch. 1732.5 MHz | 20350 Ch. 1750 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 23.43 | 23.40 | 23.66 | 0 | 0 |
| | | 1 | 24 | 23.59 | 23.66 | 23.81 | 0 | 0 |
| | | 1 | 49 | 23.27 | 23.32 | 23.45 | 0 | 0 |
| | | 25 | 0 | 22.62 | 22.66 | 22.76 | 0-1 | 1 |
| | | 25 | 12 | 22.77 | 22.77 | 22.84 | 0-1 | 1 |
| | | 25 | 24 | 22.60 | 22.70 | 22.78 | 0-1 | 1 |
| | | 50 | 0 | 22.68 | 22.65 | 22.74 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.75 | 22.77 | 22.90 | 0-1 | 1 |
| | | 1 | 24 | 23.01 | 23.04 | 23.19 | 0-1 | 1 |
| | | 1 | 49 | 22.62 | 22.72 | 22.87 | 0-1 | 1 |
| | | 25 | 0 | 21.65 | 21.66 | 21.80 | 0-2 | 2 |
| | | 25 | 12 | 21.76 | 21.71 | 21.84 | 0-2 | 2 |
| | | 25 | 24 | 21.64 | 21.73 | 21.80 | 0-2 | 2 |
| | 64QAM | 50 | 0 | 21.69 | 21.65 | 21.74 | 0-2 | 2 |
| | | 1 | 0 | 21.56 | 21.57 | 21.76 | 0-2 | 2 |
| | | 1 | 24 | 21.86 | 21.93 | 22.08 | 0-2 | 2 |
| | | 1 | 49 | 21.52 | 21.60 | 21.76 | 0-2 | 2 |
| | | 25 | 0 | 20.66 | 20.67 | 20.80 | 0-3 | 3 |
| | | 25 | 12 | 20.85 | 20.78 | 20.90 | 0-3 | 3 |
| | | 25 | 24 | 20.65 | 20.73 | 20.83 | 0-3 | 3 |
| | 50 | 0 | 20.72 | 20.66 | 20.77 | 0-3 | 3 | |

LTE Band 4 _ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 20025 Ch. 1717.5 MHz | 20175 Ch. 1732.5 MHz | 20325 Ch. 1747.5 MHz | | |
| 15 MHz | QPSK | 1 | 0 | 23.45 | 23.38 | 23.63 | 0 | 0 |
| | | 1 | 36 | 23.58 | 23.60 | 23.70 | 0 | 0 |
| | | 1 | 74 | 23.40 | 23.48 | 23.47 | 0 | 0 |
| | | 36 | 0 | 22.61 | 22.64 | 22.70 | 0-1 | 1 |
| | | 36 | 18 | 22.72 | 22.69 | 22.82 | 0-1 | 1 |
| | | 36 | 39 | 22.62 | 22.71 | 22.78 | 0-1 | 1 |
| | | 75 | 0 | 22.65 | 22.63 | 22.77 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.75 | 22.77 | 22.88 | 0-1 | 1 |
| | | 1 | 36 | 22.88 | 22.94 | 23.00 | 0-1 | 1 |
| | | 1 | 74 | 22.72 | 22.82 | 22.92 | 0-1 | 1 |
| | | 36 | 0 | 21.64 | 21.65 | 21.70 | 0-2 | 2 |
| | | 36 | 18 | 21.73 | 21.69 | 21.86 | 0-2 | 2 |
| | | 36 | 39 | 21.62 | 21.69 | 21.78 | 0-2 | 2 |
| | | 75 | 0 | 21.66 | 21.64 | 21.81 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 21.67 | 21.65 | 21.72 | 0-2 | 2 |
| | | 1 | 36 | 21.86 | 21.90 | 21.96 | 0-2 | 2 |
| | | 1 | 74 | 21.67 | 21.72 | 21.80 | 0-2 | 2 |
| | | 36 | 0 | 20.67 | 20.69 | 20.78 | 0-3 | 3 |
| | | 36 | 18 | 20.76 | 20.70 | 20.87 | 0-3 | 3 |
| | | 36 | 39 | 20.66 | 20.75 | 20.79 | 0-3 | 3 |
| | | 75 | 0 | 20.69 | 20.62 | 20.80 | 0-3 | 3 |

LTE Band 4 _ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------------|----------|
| | | | | 20175 Ch. 1732.5 MHz | | |
| 20 MHz | QPSK | 1 | 0 | 23.34 | 0 | 0 |
| | | 1 | 49 | 23.54 | 0 | 0 |
| | | 1 | 99 | 23.43 | 0 | 0 |
| | | 50 | 0 | 22.64 | 0-1 | 1 |
| | | 50 | 25 | 22.66 | 0-1 | 1 |
| | | 50 | 49 | 22.65 | 0-1 | 1 |
| | | 100 | 0 | 22.62 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.70 | 0-1 | 1 |
| | | 1 | 49 | 22.95 | 0-1 | 1 |
| | | 1 | 99 | 22.69 | 0-1 | 1 |
| | | 50 | 0 | 21.65 | 0-2 | 2 |
| | | 50 | 25 | 21.68 | 0-2 | 2 |
| | | 50 | 49 | 21.68 | 0-2 | 2 |
| | | 100 | 0 | 21.62 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 21.57 | 0-2 | 2 |
| | | 1 | 49 | 21.87 | 0-2 | 2 |
| | | 1 | 99 | 21.46 | 0-2 | 2 |
| | | 50 | 0 | 20.68 | 0-3 | 3 |
| | | 50 | 25 | 20.68 | 0-3 | 3 |
| | | 50 | 49 | 20.71 | 0-3 | 3 |
| | | 100 | 0 | 20.62 | 0-3 | 3 |

[LTE Band 5 Conducted Power DSI= 0,1,2,3,4]

LTE Band 5 _ 1.4 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|---------------------|---------------------------|----------|
| | | | | 20407 Ch. 824.7 MHz | 20525 Ch. 836.5 MHz | 20643 Ch. 848.3 MHz | | |
| 1.4 MHz | QPSK | 1 | 0 | 24.32 | 24.27 | 24.30 | 0 | 0 |
| | | 1 | 3 | 24.46 | 24.38 | 24.38 | 0 | 0 |
| | | 1 | 5 | 24.37 | 24.30 | 24.29 | 0 | 0 |
| | | 3 | 0 | 24.43 | 24.29 | 24.35 | 0 | 0 |
| | | 3 | 1 | 24.45 | 24.33 | 24.38 | 0 | 0 |
| | | 3 | 3 | 24.41 | 24.30 | 24.32 | 0 | 0 |
| | 16QAM | 6 | 0 | 23.46 | 23.35 | 23.38 | 0-1 | 1 |
| | | 1 | 0 | 23.67 | 23.58 | 23.69 | 0-1 | 1 |
| | | 1 | 3 | 23.80 | 23.75 | 23.76 | 0-1 | 1 |
| | | 1 | 5 | 23.74 | 23.65 | 23.69 | 0-1 | 1 |
| | | 3 | 0 | 23.53 | 23.38 | 23.41 | 0-1 | 1 |
| | | 3 | 1 | 23.55 | 23.41 | 23.48 | 0-1 | 1 |
| | 64QAM | 3 | 3 | 23.51 | 23.45 | 23.43 | 0-1 | 1 |
| | | 6 | 0 | 22.55 | 22.47 | 22.51 | 0-2 | 2 |
| | | 1 | 0 | 22.59 | 22.57 | 22.61 | 0-2 | 2 |
| | | 1 | 3 | 22.71 | 22.66 | 22.62 | 0-2 | 2 |
| | | 1 | 5 | 22.64 | 22.62 | 22.62 | 0-2 | 2 |
| | | 3 | 0 | 22.63 | 22.55 | 22.53 | 0-2 | 2 |
| | | 3 | 1 | 22.69 | 22.57 | 22.62 | 0-2 | 2 |
| | | 3 | 3 | 22.68 | 22.62 | 22.58 | 0-2 | 2 |
| | | 6 | 0 | 21.54 | 21.38 | 21.45 | 0-3 | 3 |

LTE Band 5 _ 3 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|---------------------|---------------------------|----------|
| | | | | 20415 Ch. 825.5 MHz | 20525 Ch. 836.5 MHz | 20635 Ch. 847.5 MHz | | |
| 3 MHz | QPSK | 1 | 0 | 24.44 | 24.38 | 24.37 | 0 | 0 |
| | | 1 | 7 | 24.53 | 24.48 | 24.45 | 0 | 0 |
| | | 1 | 14 | 24.52 | 24.45 | 24.44 | 0 | 0 |
| | | 8 | 0 | 23.55 | 23.42 | 23.47 | 0-1 | 1 |
| | | 8 | 3 | 23.66 | 23.49 | 23.56 | 0-1 | 1 |
| | | 8 | 7 | 23.59 | 23.50 | 23.53 | 0-1 | 1 |
| | | 15 | 0 | 23.61 | 23.48 | 23.51 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 23.77 | 23.71 | 23.75 | 0-1 | 1 |
| | | 1 | 7 | 23.83 | 23.74 | 23.75 | 0-1 | 1 |
| | | 1 | 14 | 23.86 | 23.75 | 23.76 | 0-1 | 1 |
| | | 8 | 0 | 22.67 | 22.54 | 22.54 | 0-2 | 2 |
| | | 8 | 3 | 22.67 | 22.54 | 22.63 | 0-2 | 2 |
| | | 8 | 7 | 22.68 | 22.57 | 22.56 | 0-2 | 2 |
| | | 15 | 0 | 22.60 | 22.49 | 22.58 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 22.72 | 22.61 | 22.65 | 0-2 | 2 |
| | | 1 | 7 | 22.76 | 22.71 | 22.70 | 0-2 | 2 |
| | | 1 | 14 | 22.75 | 22.69 | 22.71 | 0-2 | 2 |
| | | 8 | 0 | 21.65 | 21.53 | 21.53 | 0-3 | 3 |
| | | 8 | 3 | 21.68 | 21.60 | 21.62 | 0-3 | 3 |
| | | 8 | 7 | 21.63 | 21.60 | 21.61 | 0-3 | 3 |
| | | 15 | 0 | 21.61 | 21.48 | 21.56 | 0-3 | 3 |

LTE Band 5 _ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|---------------------|---------------------------|----------|
| | | | | 20425 Ch. 826.5 MHz | 20525 Ch. 836.5 MHz | 20625 Ch. 846.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 24.37 | 24.30 | 24.30 | 0 | 0 |
| | | 1 | 12 | 24.52 | 24.46 | 24.41 | 0 | 0 |
| | | 1 | 24 | 24.44 | 24.34 | 24.33 | 0 | 0 |
| | | 12 | 0 | 23.52 | 23.41 | 23.40 | 0-1 | 1 |
| | | 12 | 6 | 23.58 | 23.42 | 23.48 | 0-1 | 1 |
| | | 12 | 11 | 23.52 | 23.48 | 23.47 | 0-1 | 1 |
| | 16QAM | 25 | 0 | 23.54 | 23.40 | 23.48 | 0-1 | 1 |
| | | 1 | 0 | 23.72 | 23.66 | 23.61 | 0-1 | 1 |
| | | 1 | 12 | 23.84 | 23.79 | 23.77 | 0-1 | 1 |
| | | 1 | 24 | 23.77 | 23.75 | 23.65 | 0-1 | 1 |
| | | 12 | 0 | 22.55 | 22.40 | 22.42 | 0-2 | 2 |
| | | 12 | 6 | 22.56 | 22.50 | 22.51 | 0-2 | 2 |
| | 64QAM | 12 | 11 | 22.57 | 22.52 | 22.47 | 0-2 | 2 |
| | | 25 | 0 | 22.57 | 22.45 | 22.50 | 0-2 | 2 |
| | | 1 | 0 | 22.66 | 22.59 | 22.59 | 0-2 | 2 |
| | | 1 | 12 | 22.74 | 22.67 | 22.67 | 0-2 | 2 |
| | | 1 | 24 | 22.67 | 22.63 | 22.60 | 0-2 | 2 |
| | | 12 | 0 | 21.62 | 21.45 | 21.48 | 0-3 | 3 |
| | | 12 | 6 | 21.66 | 21.52 | 21.54 | 0-3 | 3 |
| | | 12 | 11 | 21.60 | 21.57 | 21.53 | 0-3 | 3 |
| | | 25 | 0 | 21.58 | 21.46 | 21.49 | 0-3 | 3 |

LTE Band 5 _ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------------|----------|
| | | | | 20525 Ch. 836.5 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 24.38 | 0 | 0 |
| | | 1 | 24 | 24.40 | 0 | 0 |
| | | 1 | 49 | 24.38 | 0 | 0 |
| | | 25 | 0 | 23.43 | 0-1 | 1 |
| | | 25 | 12 | 23.41 | 0-1 | 1 |
| | | 25 | 24 | 23.47 | 0-1 | 1 |
| | 16QAM | 50 | 0 | 23.33 | 0-1 | 1 |
| | | 1 | 0 | 23.81 | 0-1 | 1 |
| | | 1 | 24 | 23.79 | 0-1 | 1 |
| | | 1 | 49 | 23.72 | 0-1 | 1 |
| | | 25 | 0 | 22.44 | 0-2 | 2 |
| | | 25 | 12 | 22.44 | 0-2 | 2 |
| | 64QAM | 25 | 24 | 22.47 | 0-2 | 2 |
| | | 50 | 0 | 22.33 | 0-2 | 2 |
| | | 1 | 0 | 22.67 | 0-2 | 2 |
| | | 1 | 24 | 22.71 | 0-2 | 2 |
| | | 1 | 49 | 22.67 | 0-2 | 2 |
| | | 25 | 0 | 21.47 | 0-3 | 3 |
| | | 25 | 12 | 21.50 | 0-3 | 3 |
| | | 25 | 24 | 21.50 | 0-3 | 3 |
| | | 50 | 0 | 21.37 | 0-3 | 3 |

[LTE Band 7 Conducted Power DSI= 0,2]

LTE Band 7_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 20775 Ch. 2502.5 MHz | 21100 Ch. 2535 MHz | 21425 Ch. 2567.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 22.72 | 22.71 | 22.50 | 0 | 0 |
| | | 1 | 12 | 22.80 | 22.70 | 22.53 | 0 | 0 |
| | | 1 | 24 | 22.79 | 22.67 | 22.53 | 0 | 0 |
| | | 12 | 0 | 21.76 | 21.71 | 21.55 | 0-1 | 1 |
| | | 12 | 6 | 21.83 | 21.77 | 21.62 | 0-1 | 1 |
| | | 12 | 11 | 21.78 | 21.73 | 21.60 | 0-1 | 1 |
| | | 25 | 0 | 21.82 | 21.70 | 21.59 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.06 | 22.02 | 21.89 | 0-1 | 1 |
| | | 1 | 12 | 22.05 | 22.04 | 21.89 | 0-1 | 1 |
| | | 1 | 24 | 22.12 | 21.98 | 21.89 | 0-1 | 1 |
| | | 12 | 0 | 20.83 | 20.74 | 20.57 | 0-2 | 2 |
| | | 12 | 6 | 20.84 | 20.81 | 20.66 | 0-2 | 2 |
| | | 12 | 11 | 20.81 | 20.78 | 20.64 | 0-2 | 2 |
| | | 25 | 0 | 20.83 | 20.72 | 20.57 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 20.97 | 20.97 | 20.76 | 0-2 | 2 |
| | | 1 | 12 | 20.95 | 20.94 | 20.78 | 0-2 | 2 |
| | | 1 | 24 | 20.99 | 20.92 | 20.83 | 0-2 | 2 |
| | | 12 | 0 | 19.82 | 19.77 | 19.66 | 0-3 | 3 |
| | | 12 | 6 | 19.92 | 19.84 | 19.66 | 0-3 | 3 |
| | | 12 | 11 | 19.90 | 19.80 | 19.65 | 0-3 | 3 |
| | | 25 | 0 | 19.81 | 19.73 | 19.57 | 0-3 | 3 |

LTE Band 7_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|--------------------|---------------------------|----------|
| | | | | 20800 Ch. 2505 MHz | 21100 Ch. 2535 MHz | 21400 Ch. 2565 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 22.74 | 22.72 | 22.54 | 0 | 0 |
| | | 1 | 24 | 22.69 | 22.65 | 22.48 | 0 | 0 |
| | | 1 | 49 | 22.69 | 22.63 | 22.57 | 0 | 0 |
| | | 25 | 0 | 21.78 | 21.75 | 21.60 | 0-1 | 1 |
| | | 25 | 12 | 21.78 | 21.76 | 21.63 | 0-1 | 1 |
| | | 25 | 24 | 21.72 | 21.66 | 21.61 | 0-1 | 1 |
| | | 50 | 0 | 21.65 | 21.60 | 21.56 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.06 | 22.04 | 21.90 | 0-1 | 1 |
| | | 1 | 24 | 22.15 | 22.06 | 21.88 | 0-1 | 1 |
| | | 1 | 49 | 22.05 | 22.02 | 21.91 | 0-1 | 1 |
| | | 25 | 0 | 20.77 | 20.77 | 20.59 | 0-2 | 2 |
| | | 25 | 12 | 20.84 | 20.79 | 20.63 | 0-2 | 2 |
| | | 25 | 24 | 20.71 | 20.63 | 20.58 | 0-2 | 2 |
| | | 50 | 0 | 20.66 | 20.62 | 20.55 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 20.97 | 20.94 | 20.78 | 0-2 | 2 |
| | | 1 | 24 | 20.98 | 20.93 | 20.77 | 0-2 | 2 |
| | | 1 | 49 | 20.91 | 20.91 | 20.84 | 0-2 | 2 |
| | | 25 | 0 | 19.80 | 19.79 | 19.64 | 0-3 | 3 |
| | | 25 | 12 | 19.90 | 19.82 | 19.65 | 0-3 | 3 |
| | | 25 | 24 | 19.77 | 19.69 | 19.63 | 0-3 | 3 |
| | | 50 | 0 | 19.71 | 19.62 | 19.58 | 0-3 | 3 |

LTE Band 7 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 20825 Ch. 2507.5 MHz | 21100 Ch. 2535 MHz | 21375 Ch. 2562.5 MHz | | |
| 15 MHz | QPSK | 1 | 0 | 22.61 | 22.61 | 22.43 | 0 | 0 |
| | | 1 | 36 | 22.61 | 22.57 | 22.47 | 0 | 0 |
| | | 1 | 74 | 22.63 | 22.56 | 22.50 | 0 | 0 |
| | | 36 | 0 | 21.75 | 21.69 | 21.59 | 0-1 | 1 |
| | | 36 | 18 | 21.69 | 21.64 | 21.59 | 0-1 | 1 |
| | | 36 | 39 | 21.68 | 21.61 | 21.53 | 0-1 | 1 |
| | | 75 | 0 | 21.61 | 21.58 | 21.58 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 21.99 | 21.90 | 21.80 | 0-1 | 1 |
| | | 1 | 36 | 21.98 | 21.91 | 21.79 | 0-1 | 1 |
| | | 1 | 74 | 21.95 | 21.95 | 21.77 | 0-1 | 1 |
| | | 36 | 0 | 20.75 | 20.70 | 20.59 | 0-2 | 2 |
| | | 36 | 18 | 20.68 | 20.65 | 20.63 | 0-2 | 2 |
| | | 36 | 39 | 20.67 | 20.62 | 20.54 | 0-2 | 2 |
| | | 75 | 0 | 20.67 | 20.59 | 20.57 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 20.89 | 20.87 | 20.75 | 0-2 | 2 |
| | | 1 | 36 | 20.87 | 20.83 | 20.75 | 0-2 | 2 |
| | | 1 | 74 | 20.85 | 20.78 | 20.65 | 0-2 | 2 |
| | | 36 | 0 | 19.82 | 19.74 | 19.66 | 0-3 | 3 |
| | | 36 | 18 | 19.71 | 19.66 | 19.66 | 0-3 | 3 |
| | | 36 | 39 | 19.72 | 19.66 | 19.54 | 0-3 | 3 |
| | | 75 | 0 | 19.64 | 19.61 | 19.61 | 0-3 | 3 |

LTE Band 7 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|--------------------|---------------------------|----------|
| | | | | 20850 Ch. 2510 MHz | 21100 Ch. 2535 MHz | 21350 Ch. 2560 MHz | | |
| 20 MHz | QPSK | 1 | 0 | 22.60 | 22.60 | 22.48 | 0 | 0 |
| | | 1 | 49 | 22.61 | 22.52 | 22.45 | 0 | 0 |
| | | 1 | 99 | 22.63 | 22.56 | 22.50 | 0 | 0 |
| | | 50 | 0 | 21.73 | 21.69 | 21.62 | 0-1 | 1 |
| | | 50 | 25 | 21.78 | 21.69 | 21.64 | 0-1 | 1 |
| | | 50 | 49 | 21.67 | 21.62 | 21.51 | 0-1 | 1 |
| | | 100 | 0 | 21.69 | 21.56 | 21.54 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 21.98 | 21.88 | 21.89 | 0-1 | 1 |
| | | 1 | 49 | 22.00 | 21.88 | 21.87 | 0-1 | 1 |
| | | 1 | 99 | 21.95 | 21.89 | 21.83 | 0-1 | 1 |
| | | 50 | 0 | 20.74 | 20.73 | 20.61 | 0-2 | 2 |
| | | 50 | 25 | 20.78 | 20.66 | 20.64 | 0-2 | 2 |
| | | 50 | 49 | 20.66 | 20.66 | 20.54 | 0-2 | 2 |
| | | 100 | 0 | 20.67 | 20.54 | 20.55 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 20.90 | 20.79 | 20.78 | 0-2 | 2 |
| | | 1 | 49 | 20.88 | 20.81 | 20.76 | 0-2 | 2 |
| | | 1 | 99 | 20.89 | 20.71 | 20.70 | 0-2 | 2 |
| | | 50 | 0 | 19.73 | 19.73 | 19.65 | 0-3 | 3 |
| | | 50 | 25 | 19.78 | 19.67 | 19.63 | 0-3 | 3 |
| | | 50 | 49 | 19.70 | 19.69 | 19.54 | 0-3 | 3 |
| | | 100 | 0 | 19.70 | 19.61 | 19.55 | 0-3 | 3 |

[LTE Band 12 Conducted Power DSI= 0,1,2,3,4]

LTE Band 12_ 1.4 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|---------------------|---------------------------|----------|
| | | | | 23017 Ch. 699.7 MHz | 23095 Ch. 707.5 MHz | 23173 Ch. 715.3 MHz | | |
| 1.4 MHz | QPSK | 1 | 0 | 24.63 | 24.59 | 23.88 | 0 | 0 |
| | | 1 | 3 | 24.68 | 24.63 | 23.84 | 0 | 0 |
| | | 1 | 5 | 24.68 | 24.60 | 23.74 | 0 | 0 |
| | | 3 | 0 | 24.62 | 24.56 | 23.95 | 0 | 0 |
| | | 3 | 1 | 24.65 | 24.61 | 23.83 | 0 | 0 |
| | | 3 | 3 | 24.67 | 24.57 | 23.64 | 0 | 0 |
| | 16QAM | 6 | 0 | 23.76 | 23.66 | 22.99 | 0-1 | 1 |
| | | 1 | 0 | 23.99 | 23.93 | 23.48 | 0-1 | 1 |
| | | 1 | 3 | 24.06 | 24.02 | 23.46 | 0-1 | 1 |
| | | 1 | 5 | 24.00 | 23.88 | 23.38 | 0-1 | 1 |
| | | 3 | 0 | 23.77 | 23.67 | 23.19 | 0-1 | 1 |
| | | 3 | 1 | 23.82 | 23.72 | 23.14 | 0-1 | 1 |
| | 64QAM | 3 | 3 | 23.77 | 23.66 | 23.04 | 0-1 | 1 |
| | | 6 | 0 | 22.87 | 22.78 | 22.34 | 0-2 | 2 |
| | | 1 | 0 | 22.69 | 22.42 | 21.69 | 0-2 | 2 |
| | | 1 | 3 | 22.78 | 22.60 | 21.68 | 0-2 | 2 |
| | | 1 | 5 | 22.68 | 22.67 | 21.62 | 0-2 | 2 |
| | | 3 | 0 | 22.60 | 22.45 | 21.65 | 0-2 | 2 |
| | | 3 | 1 | 22.65 | 22.61 | 21.61 | 0-2 | 2 |
| | | 3 | 3 | 22.48 | 22.66 | 21.58 | 0-2 | 2 |
| | | 6 | 0 | 21.50 | 21.52 | 20.55 | 0-3 | 3 |

LTE Band 12_ 3 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|---------------------|---------------------------|----------|
| | | | | 23025 Ch. 700.5 MHz | 23095 Ch. 707.5 MHz | 23165 Ch. 714.5 MHz | | |
| 3 MHz | QPSK | 1 | 0 | 24.69 | 24.64 | 24.47 | 0 | 0 |
| | | 1 | 7 | 24.75 | 24.69 | 24.12 | 0 | 0 |
| | | 1 | 14 | 24.67 | 24.68 | 23.95 | 0 | 0 |
| | | 8 | 0 | 23.84 | 23.72 | 23.69 | 0-1 | 1 |
| | | 8 | 3 | 23.84 | 23.75 | 23.45 | 0-1 | 1 |
| | | 8 | 7 | 23.75 | 23.78 | 23.08 | 0-1 | 1 |
| | | 15 | 0 | 23.77 | 23.74 | 23.35 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 24.04 | 23.96 | 23.96 | 0-1 | 1 |
| | | 1 | 7 | 23.99 | 23.93 | 23.68 | 0-1 | 1 |
| | | 1 | 14 | 24.04 | 23.99 | 23.49 | 0-1 | 1 |
| | | 8 | 0 | 22.94 | 22.81 | 22.78 | 0-2 | 2 |
| | | 8 | 3 | 22.96 | 22.79 | 22.75 | 0-2 | 2 |
| | | 8 | 7 | 22.88 | 22.83 | 22.42 | 0-2 | 2 |
| | | 15 | 0 | 22.89 | 22.77 | 22.62 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 22.39 | 22.28 | 22.18 | 0-2 | 2 |
| | | 1 | 7 | 22.39 | 22.57 | 21.88 | 0-2 | 2 |
| | | 1 | 14 | 22.39 | 22.94 | 21.79 | 0-2 | 2 |
| | | 8 | 0 | 21.53 | 21.38 | 21.32 | 0-3 | 3 |
| | | 8 | 3 | 21.50 | 21.59 | 21.14 | 0-3 | 3 |
| | | 8 | 7 | 21.30 | 21.85 | 20.74 | 0-3 | 3 |
| | | 15 | 0 | 21.27 | 21.56 | 20.86 | 0-3 | 3 |

LTE Band 12 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|---------------------|---------------------------|----------|
| | | | | 23035 Ch. 701.5 MHz | 23095 Ch. 707.5 MHz | 23155 Ch. 713.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 24.60 | 24.50 | 24.64 | 0 | 0 |
| | | 1 | 12 | 24.54 | 24.69 | 24.47 | 0 | 0 |
| | | 1 | 24 | 24.42 | 24.59 | 24.09 | 0 | 0 |
| | | 12 | 0 | 23.86 | 23.72 | 23.74 | 0-1 | 1 |
| | | 12 | 6 | 23.79 | 23.74 | 23.77 | 0-1 | 1 |
| | | 12 | 11 | 23.64 | 23.80 | 23.47 | 0-1 | 1 |
| | | 25 | 0 | 23.73 | 23.72 | 23.60 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 23.90 | 23.91 | 23.97 | 0-1 | 1 |
| | | 1 | 12 | 23.87 | 23.98 | 23.92 | 0-1 | 1 |
| | | 1 | 24 | 23.77 | 23.99 | 23.77 | 0-1 | 1 |
| | | 12 | 0 | 22.89 | 22.78 | 22.77 | 0-2 | 2 |
| | | 12 | 6 | 22.89 | 22.80 | 22.78 | 0-2 | 2 |
| | | 12 | 11 | 22.84 | 22.82 | 22.76 | 0-2 | 2 |
| | | 25 | 0 | 22.79 | 22.75 | 22.70 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 22.10 | 21.94 | 22.62 | 0-2 | 2 |
| | | 1 | 12 | 22.18 | 22.54 | 22.44 | 0-2 | 2 |
| | | 1 | 24 | 22.07 | 22.90 | 22.12 | 0-2 | 2 |
| | | 12 | 0 | 21.46 | 21.18 | 21.85 | 0-3 | 3 |
| | | 12 | 6 | 21.24 | 21.51 | 21.67 | 0-3 | 3 |
| | | 12 | 11 | 21.03 | 21.80 | 21.16 | 0-3 | 3 |
| 25 | | 0 | 21.06 | 21.47 | 21.28 | 0-3 | 3 | |

LTE Band 12 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------------|----------|
| | | | | 23095 Ch. 707.5 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 24.39 | 0 | 0 |
| | | 1 | 24 | 24.57 | 0 | 0 |
| | | 1 | 49 | 24.64 | 0 | 0 |
| | | 25 | 0 | 23.65 | 0-1 | 1 |
| | | 25 | 12 | 23.72 | 0-1 | 1 |
| | | 25 | 24 | 23.77 | 0-1 | 1 |
| | | 50 | 0 | 23.68 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 23.82 | 0-1 | 1 |
| | | 1 | 24 | 23.98 | 0-1 | 1 |
| | | 1 | 49 | 23.99 | 0-1 | 1 |
| | | 25 | 0 | 22.64 | 0-2 | 2 |
| | | 25 | 12 | 22.75 | 0-2 | 2 |
| | | 25 | 24 | 22.73 | 0-2 | 2 |
| | | 50 | 0 | 22.66 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 22.05 | 0-2 | 2 |
| | | 1 | 24 | 22.60 | 0-2 | 2 |
| | | 1 | 49 | 22.95 | 0-2 | 2 |
| | | 25 | 0 | 20.91 | 0-3 | 3 |
| | | 25 | 12 | 21.46 | 0-3 | 3 |
| | | 25 | 24 | 21.82 | 0-3 | 3 |
| 50 | | 0 | 21.33 | 0-3 | 3 | |

[LTE Band 13 Conducted Power DSI= 0,1,2,3,4]

LTE Band 13_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------------|----------|
| | | | | 23230 Ch. 782 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 24.40 | 0 | 0 |
| | | 1 | 24 | 24.48 | 0 | 0 |
| | | 1 | 49 | 24.49 | 0 | 0 |
| | | 25 | 0 | 23.50 | 0-1 | 1 |
| | | 25 | 12 | 23.59 | 0-1 | 1 |
| | | 25 | 24 | 23.56 | 0-1 | 1 |
| | 50 | 0 | 23.56 | 0-1 | 1 | |
| | 16QAM | 1 | 0 | 23.83 | 0-1 | 1 |
| | | 1 | 24 | 23.79 | 0-1 | 1 |
| | | 1 | 49 | 23.80 | 0-1 | 1 |
| | | 25 | 0 | 22.49 | 0-2 | 2 |
| | | 25 | 12 | 22.57 | 0-2 | 2 |
| | | 25 | 24 | 22.55 | 0-2 | 2 |
| | 64QAM | 50 | 0 | 22.55 | 0-2 | 2 |
| | | 1 | 0 | 22.70 | 0-2 | 2 |
| | | 1 | 24 | 22.70 | 0-2 | 2 |
| | | 1 | 49 | 22.73 | 0-2 | 2 |
| | | 25 | 0 | 21.55 | 0-3 | 3 |
| 25 | | 12 | 21.68 | 0-3 | 3 | |
| 25 | 24 | 21.63 | 0-3 | 3 | | |
| 50 | 0 | 21.60 | 0-3 | 3 | | |

LTE Band 13_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------------|----------|
| | | | | 23230 Ch. 782 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 24.49 | 0 | 0 |
| | | 1 | 24 | 24.43 | 0 | 0 |
| | | 1 | 49 | 24.38 | 0 | 0 |
| | | 25 | 0 | 23.48 | 0-1 | 1 |
| | | 25 | 12 | 23.55 | 0-1 | 1 |
| | | 25 | 24 | 23.56 | 0-1 | 1 |
| | 16QAM | 50 | 0 | 23.53 | 0-1 | 1 |
| | | 1 | 0 | 23.86 | 0-1 | 1 |
| | | 1 | 24 | 23.85 | 0-1 | 1 |
| | | 1 | 49 | 23.82 | 0-1 | 1 |
| | | 25 | 0 | 22.49 | 0-2 | 2 |
| | | 25 | 12 | 22.59 | 0-2 | 2 |
| | 64QAM | 25 | 24 | 22.52 | 0-2 | 2 |
| | | 50 | 0 | 22.50 | 0-2 | 2 |
| | | 1 | 0 | 22.51 | 0-2 | 2 |
| | | 1 | 24 | 22.68 | 0-2 | 2 |
| | | 1 | 49 | 22.69 | 0-2 | 2 |
| | | 25 | 0 | 21.48 | 0-3 | 3 |
| | 25 | 12 | 21.61 | 0-3 | 3 | |
| | 25 | 24 | 21.56 | 0-3 | 3 | |
| | 50 | 0 | 21.57 | 0-3 | 3 | |

[LTE Band 14 Conducted Power DSI= 0,1,2,3,4]

LTE Band 14 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|-------------------|---------------------|---------------------------|----------|
| | | | | 23305 Ch. 790.5 MHz | 23330 Ch. 793 MHz | 23355 Ch. 795.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 24.11 | 24.07 | 24.13 | 0 | 0 |
| | | 1 | 12 | 24.16 | 24.07 | 24.12 | 0 | 0 |
| | | 1 | 24 | 24.09 | 23.95 | 24.04 | 0 | 0 |
| | | 12 | 0 | 23.31 | 23.27 | 23.00 | 0-1 | 1 |
| | | 12 | 6 | 23.30 | 23.22 | 23.21 | 0-1 | 1 |
| | | 12 | 11 | 23.25 | 22.97 | 23.21 | 0-1 | 1 |
| | | 25 | 0 | 23.27 | 23.17 | 23.17 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 23.42 | 23.44 | 23.49 | 0-1 | 1 |
| | | 1 | 12 | 23.53 | 23.35 | 23.41 | 0-1 | 1 |
| | | 1 | 24 | 23.21 | 22.94 | 23.35 | 0-1 | 1 |
| | | 12 | 0 | 22.33 | 22.27 | 22.19 | 0-2 | 2 |
| | | 12 | 6 | 22.34 | 22.21 | 22.31 | 0-2 | 2 |
| | | 12 | 11 | 22.27 | 22.18 | 22.22 | 0-2 | 2 |
| | | 25 | 0 | 22.28 | 22.21 | 22.25 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 22.07 | 22.38 | 22.39 | 0-2 | 2 |
| | | 1 | 12 | 22.43 | 21.85 | 22.03 | 0-2 | 2 |
| | | 1 | 24 | 21.83 | 21.82 | 22.16 | 0-2 | 2 |
| | | 12 | 0 | 21.39 | 21.22 | 21.20 | 0-3 | 3 |
| | | 12 | 6 | 21.35 | 21.22 | 21.20 | 0-3 | 3 |
| | | 12 | 11 | 21.23 | 21.18 | 21.14 | 0-3 | 3 |
| | | 25 | 0 | 21.31 | 21.13 | 21.10 | 0-3 | 3 |

LTE Band 14 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------------|----------|
| | | | | 23330 Ch. 793 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 24.35 | 0 | 0 |
| | | 1 | 24 | 24.09 | 0 | 0 |
| | | 1 | 49 | 24.04 | 0 | 0 |
| | | 25 | 0 | 23.14 | 0-1 | 1 |
| | | 25 | 12 | 23.23 | 0-1 | 1 |
| | | 25 | 24 | 23.07 | 0-1 | 1 |
| | | 50 | 0 | 23.14 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 23.58 | 0-1 | 1 |
| | | 1 | 24 | 23.54 | 0-1 | 1 |
| | | 1 | 49 | 23.22 | 0-1 | 1 |
| | | 25 | 0 | 22.13 | 0-2 | 2 |
| | | 25 | 12 | 22.20 | 0-2 | 2 |
| | | 25 | 24 | 22.13 | 0-2 | 2 |
| | | 50 | 0 | 22.11 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 22.50 | 0-2 | 2 |
| | | 1 | 24 | 22.44 | 0-2 | 2 |
| | | 1 | 49 | 21.80 | 0-2 | 2 |
| | | 25 | 0 | 21.20 | 0-3 | 3 |
| | | 25 | 12 | 20.73 | 0-3 | 3 |
| | | 25 | 24 | 20.84 | 0-3 | 3 |
| | | 50 | 0 | 21.00 | 0-3 | 3 |

[LTE Band 25 Conducted Power DSI= 0,2]

LTE Band 25_ 1.4 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] | |
|-----------|------------|---------|-----------|--------------------------|----------------------|----------------------|---------------------------|----------|---|
| | | | | 26047 Ch. 1850.7 MHz | 26365 Ch. 1882.5 MHz | 26683 Ch. 1914.3 MHz | | | |
| 1.4 MHz | QPSK | 1 | 0 | 23.71 | 23.60 | 23.78 | 0 | 0 | |
| | | 1 | 3 | 23.77 | 23.66 | 23.86 | 0 | 0 | |
| | | 1 | 5 | 23.71 | 23.60 | 23.82 | 0 | 0 | |
| | | 3 | 0 | 23.73 | 23.63 | 23.80 | 0 | 0 | |
| | | 3 | 1 | 23.78 | 23.66 | 23.86 | 0 | 0 | |
| | | 3 | 3 | 23.76 | 23.61 | 23.83 | 0 | 0 | |
| | 16QAM | 1 | 0 | 23.03 | 22.95 | 23.15 | 0-1 | 1 | |
| | | 1 | 3 | 23.12 | 23.00 | 23.24 | 0-1 | 1 | |
| | | 1 | 5 | 23.07 | 22.95 | 23.21 | 0-1 | 1 | |
| | | 3 | 0 | 22.89 | 22.75 | 22.92 | 0-1 | 1 | |
| | | 3 | 1 | 22.90 | 22.82 | 22.98 | 0-1 | 1 | |
| | | 3 | 3 | 22.86 | 22.74 | 22.97 | 0-1 | 1 | |
| | 64QAM | 6 | 0 | 21.92 | 21.80 | 21.98 | 0-2 | 2 | |
| | | 1 | 0 | 22.01 | 21.90 | 22.10 | 0-2 | 2 | |
| | | 1 | 3 | 22.04 | 21.98 | 22.18 | 0-2 | 2 | |
| | | 1 | 5 | 22.00 | 21.90 | 22.13 | 0-2 | 2 | |
| | | 3 | 0 | 21.96 | 21.83 | 22.05 | 0-2 | 2 | |
| | | 3 | 1 | 21.99 | 21.89 | 22.09 | 0-2 | 2 | |
| | | | 3 | 3 | 21.95 | 21.89 | 22.08 | 0-2 | 2 |
| | | | 6 | 0 | 20.87 | 20.70 | 20.95 | 0-3 | 3 |

LTE Band 25_ 3 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 26055 Ch. 1851.5 MHz | 26365 Ch. 1882.5 MHz | 26675 Ch. 1913.5 MHz | | |
| 3 MHz | QPSK | 1 | 0 | 23.77 | 23.65 | 23.86 | 0 | 0 |
| | | 1 | 7 | 23.79 | 23.75 | 23.97 | 0 | 0 |
| | | 1 | 14 | 23.85 | 23.71 | 23.93 | 0 | 0 |
| | | 8 | 0 | 22.90 | 22.66 | 22.90 | 0-1 | 1 |
| | | 8 | 3 | 22.90 | 22.78 | 23.01 | 0-1 | 1 |
| | | 8 | 7 | 22.92 | 22.77 | 22.99 | 0-1 | 1 |
| | | 15 | 0 | 22.94 | 22.80 | 22.97 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 23.12 | 22.95 | 23.22 | 0-1 | 1 |
| | | 1 | 7 | 23.14 | 23.01 | 23.26 | 0-1 | 1 |
| | | 1 | 14 | 23.14 | 23.10 | 23.30 | 0-1 | 1 |
| | | 8 | 0 | 21.98 | 21.76 | 21.98 | 0-2 | 2 |
| | | 8 | 3 | 22.01 | 21.88 | 22.10 | 0-2 | 2 |
| | | 8 | 7 | 21.98 | 21.88 | 22.07 | 0-2 | 2 |
| | | 15 | 0 | 21.92 | 21.82 | 22.02 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 22.00 | 21.88 | 22.14 | 0-2 | 2 |
| | | 1 | 7 | 22.02 | 21.97 | 22.16 | 0-2 | 2 |
| | | 1 | 14 | 22.07 | 22.02 | 22.18 | 0-2 | 2 |
| | | 8 | 0 | 20.96 | 20.77 | 21.03 | 0-3 | 3 |
| | | 8 | 3 | 21.03 | 20.93 | 21.07 | 0-3 | 3 |
| | | 8 | 7 | 21.00 | 20.85 | 21.11 | 0-3 | 3 |
| | | 15 | 0 | 20.95 | 20.82 | 21.05 | 0-3 | 3 |

LTE Band 25 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 26065 Ch. 1852.5 MHz | 26365 Ch. 1882.5 MHz | 26665 Ch. 1912.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 23.79 | 23.60 | 23.87 | 0 | 0 |
| | | 1 | 12 | 23.81 | 23.68 | 23.90 | 0 | 0 |
| | | 1 | 24 | 23.85 | 23.74 | 23.94 | 0 | 0 |
| | | 12 | 0 | 22.87 | 22.71 | 22.91 | 0-1 | 1 |
| | | 12 | 6 | 22.95 | 22.84 | 23.01 | 0-1 | 1 |
| | | 12 | 11 | 22.92 | 22.81 | 23.06 | 0-1 | 1 |
| | | 25 | 0 | 22.94 | 22.80 | 22.98 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 23.13 | 22.99 | 23.26 | 0-1 | 1 |
| | | 1 | 12 | 23.14 | 23.04 | 23.27 | 0-1 | 1 |
| | | 1 | 24 | 23.14 | 23.06 | 23.31 | 0-1 | 1 |
| | | 12 | 0 | 21.94 | 21.76 | 21.96 | 0-2 | 2 |
| | | 12 | 6 | 21.96 | 21.83 | 21.99 | 0-2 | 2 |
| | | 12 | 11 | 21.99 | 21.85 | 22.05 | 0-2 | 2 |
| | | 25 | 0 | 21.95 | 21.80 | 22.01 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 22.04 | 21.94 | 22.15 | 0-2 | 2 |
| | | 1 | 12 | 22.05 | 21.98 | 22.20 | 0-2 | 2 |
| | | 1 | 24 | 22.13 | 21.96 | 22.17 | 0-2 | 2 |
| | | 12 | 0 | 20.96 | 20.77 | 20.99 | 0-3 | 3 |
| | | 12 | 6 | 21.03 | 20.92 | 21.04 | 0-3 | 3 |
| | | 12 | 11 | 21.02 | 20.89 | 21.09 | 0-3 | 3 |
| | | 25 | 0 | 20.94 | 20.79 | 21.04 | 0-3 | 3 |

LTE Band 25 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|----------------------|--------------------|---------------------------|----------|
| | | | | 26090 Ch. 1855 MHz | 26365 Ch. 1882.5 MHz | 26640 Ch. 1910 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 23.66 | 23.59 | 23.98 | 0 | 0 |
| | | 1 | 24 | 23.76 | 23.70 | 23.87 | 0 | 0 |
| | | 1 | 49 | 23.50 | 23.46 | 23.90 | 0 | 0 |
| | | 25 | 0 | 22.85 | 22.66 | 22.85 | 0-1 | 1 |
| | | 25 | 12 | 22.93 | 22.80 | 22.94 | 0-1 | 1 |
| | | 25 | 24 | 22.86 | 22.75 | 22.99 | 0-1 | 1 |
| | | 50 | 0 | 22.87 | 22.76 | 22.95 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.93 | 22.87 | 23.25 | 0-1 | 1 |
| | | 1 | 24 | 23.11 | 23.11 | 23.30 | 0-1 | 1 |
| | | 1 | 49 | 22.84 | 22.82 | 23.27 | 0-1 | 1 |
| | | 25 | 0 | 21.87 | 21.67 | 21.86 | 0-2 | 2 |
| | | 25 | 12 | 21.92 | 21.83 | 21.97 | 0-2 | 2 |
| | | 25 | 24 | 21.87 | 21.76 | 22.00 | 0-2 | 2 |
| | | 50 | 0 | 21.90 | 21.78 | 21.96 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 21.87 | 21.66 | 22.08 | 0-2 | 2 |
| | | 1 | 24 | 22.08 | 21.94 | 22.12 | 0-2 | 2 |
| | | 1 | 49 | 21.74 | 21.66 | 22.16 | 0-2 | 2 |
| | | 25 | 0 | 20.88 | 20.68 | 20.89 | 0-3 | 3 |
| | | 25 | 12 | 20.99 | 20.86 | 21.02 | 0-3 | 3 |
| | | 25 | 24 | 20.92 | 20.79 | 21.01 | 0-3 | 3 |
| | | 50 | 0 | 20.89 | 20.76 | 21.00 | 0-3 | 3 |

LTE Band 25 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 26115 Ch. 1857.5 MHz | 26365 Ch. 1882.5 MHz | 26615 Ch. 1907.5 MHz | | |
| 15 MHz | QPSK | 1 | 0 | 23.62 | 23.78 | 23.88 | 0 | 0 |
| | | 1 | 36 | 23.78 | 23.69 | 23.93 | 0 | 0 |
| | | 1 | 74 | 23.56 | 23.59 | 23.82 | 0 | 0 |
| | | 36 | 0 | 22.85 | 22.68 | 22.82 | 0-1 | 1 |
| | | 36 | 18 | 22.92 | 22.75 | 22.93 | 0-1 | 1 |
| | | 36 | 39 | 22.88 | 22.77 | 22.98 | 0-1 | 1 |
| | | 75 | 0 | 22.88 | 22.77 | 22.84 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.98 | 23.10 | 23.13 | 0-1 | 1 |
| | | 1 | 36 | 23.11 | 23.02 | 23.16 | 0-1 | 1 |
| | | 1 | 74 | 22.96 | 22.98 | 23.20 | 0-1 | 1 |
| | | 36 | 0 | 21.88 | 21.71 | 21.80 | 0-2 | 2 |
| | | 36 | 18 | 21.94 | 21.76 | 21.91 | 0-2 | 2 |
| | | 36 | 39 | 21.86 | 21.75 | 21.99 | 0-2 | 2 |
| | | 75 | 0 | 21.89 | 21.77 | 21.87 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 21.90 | 21.96 | 22.04 | 0-2 | 2 |
| | | 1 | 36 | 22.07 | 21.94 | 22.16 | 0-2 | 2 |
| | | 1 | 74 | 21.85 | 21.88 | 22.12 | 0-2 | 2 |
| | | 36 | 0 | 20.94 | 20.74 | 20.87 | 0-3 | 3 |
| | | 36 | 18 | 20.98 | 20.78 | 21.00 | 0-3 | 3 |
| | | 36 | 39 | 20.90 | 20.84 | 21.06 | 0-3 | 3 |
| | | 75 | 0 | 20.88 | 20.79 | 20.88 | 0-3 | 3 |

LTE Band 25 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|----------------------|--------------------|---------------------------|----------|
| | | | | 26140 Ch. 1860 MHz | 26365 Ch. 1882.5 MHz | 26590 Ch. 1905 MHz | | |
| 20 MHz | QPSK | 1 | 0 | 23.88 | 23.69 | 23.72 | 0 | 0 |
| | | 1 | 49 | 23.76 | 23.69 | 23.82 | 0 | 0 |
| | | 1 | 99 | 23.58 | 23.56 | 23.89 | 0 | 0 |
| | | 50 | 0 | 22.94 | 22.78 | 22.86 | 0-1 | 1 |
| | | 50 | 25 | 22.93 | 22.81 | 22.86 | 0-1 | 1 |
| | | 50 | 49 | 22.82 | 22.72 | 22.99 | 0-1 | 1 |
| | | 100 | 0 | 22.80 | 22.71 | 22.79 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 23.26 | 23.14 | 23.08 | 0-1 | 1 |
| | | 1 | 49 | 23.12 | 23.06 | 23.18 | 0-1 | 1 |
| | | 1 | 99 | 23.05 | 23.04 | 23.22 | 0-1 | 1 |
| | | 50 | 0 | 21.96 | 21.79 | 21.88 | 0-2 | 2 |
| | | 50 | 25 | 21.91 | 21.82 | 21.91 | 0-2 | 2 |
| | | 50 | 49 | 21.84 | 21.76 | 21.97 | 0-2 | 2 |
| | | 100 | 0 | 21.80 | 21.72 | 21.82 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 22.08 | 21.98 | 21.88 | 0-2 | 2 |
| | | 1 | 49 | 22.02 | 21.91 | 22.07 | 0-2 | 2 |
| | | 1 | 99 | 21.92 | 21.88 | 22.13 | 0-2 | 2 |
| | | 50 | 0 | 20.98 | 20.83 | 20.91 | 0-3 | 3 |
| | | 50 | 25 | 20.95 | 20.83 | 20.94 | 0-3 | 3 |
| | | 50 | 49 | 20.86 | 20.81 | 20.98 | 0-3 | 3 |
| | | 100 | 0 | 20.85 | 20.75 | 20.84 | 0-3 | 3 |

[LTE Band 26 Conducted Power DSI= 0,1,2,3,4]

LTE Band 26 1.4 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] | |
|-----------|------------|---------|-----------|--------------------------|---------------------|---------------------|---------------------------|----------|---|
| | | | | 26697 Ch. 814.7 MHz | 26865 Ch. 831.5 MHz | 27033 Ch. 848.3 MHz | | | |
| 1.4 MHz | QPSK | 1 | 0 | 24.43 | 24.35 | 24.22 | 0 | 0 | |
| | | 1 | 3 | 24.49 | 24.38 | 24.31 | 0 | 0 | |
| | | 1 | 5 | 24.45 | 24.33 | 24.20 | 0 | 0 | |
| | | 3 | 0 | 24.48 | 24.29 | 24.24 | 0 | 0 | |
| | | 3 | 1 | 24.49 | 24.37 | 24.28 | 0 | 0 | |
| | | 3 | 3 | 24.44 | 24.31 | 24.24 | 0 | 0 | |
| | 16QAM | 1 | 0 | 23.80 | 23.68 | 23.63 | 0-1 | 1 | |
| | | 1 | 3 | 23.85 | 23.70 | 23.64 | 0-1 | 1 | |
| | | 1 | 5 | 23.82 | 23.65 | 23.55 | 0-1 | 1 | |
| | | 3 | 0 | 23.57 | 23.41 | 23.36 | 0-1 | 1 | |
| | | 3 | 1 | 23.60 | 23.47 | 23.42 | 0-1 | 1 | |
| | | 3 | 3 | 23.57 | 23.42 | 23.37 | 0-1 | 1 | |
| | 64QAM | 6 | 0 | 22.67 | 22.50 | 22.44 | 0-2 | 2 | |
| | | 1 | 0 | 22.71 | 22.62 | 22.54 | 0-2 | 2 | |
| | | 1 | 3 | 22.72 | 22.63 | 22.59 | 0-2 | 2 | |
| | | 1 | 5 | 22.71 | 22.55 | 22.47 | 0-2 | 2 | |
| | | 3 | 0 | 22.68 | 22.57 | 22.51 | 0-2 | 2 | |
| | | 3 | 1 | 22.74 | 22.63 | 22.55 | 0-2 | 2 | |
| | | | 3 | 3 | 22.68 | 22.51 | 22.51 | 0-2 | 2 |
| | | | 6 | 0 | 21.59 | 21.41 | 21.41 | 0-3 | 3 |

LTE Band 26 3 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|---------------------|---------------------------|----------|
| | | | | 26705 Ch. 815.5 MHz | 26865 Ch. 831.5 MHz | 27025 Ch. 847.5 MHz | | |
| 3 MHz | QPSK | 1 | 0 | 24.47 | 24.46 | 24.32 | 0 | 0 |
| | | 1 | 7 | 24.50 | 24.45 | 24.34 | 0 | 0 |
| | | 1 | 14 | 24.54 | 24.40 | 24.36 | 0 | 0 |
| | | 8 | 0 | 23.56 | 23.43 | 23.44 | 0-1 | 1 |
| | | 8 | 3 | 23.62 | 23.46 | 23.45 | 0-1 | 1 |
| | | 8 | 7 | 23.57 | 23.45 | 23.44 | 0-1 | 1 |
| | | 15 | 0 | 23.58 | 23.43 | 23.41 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 23.79 | 23.76 | 23.63 | 0-1 | 1 |
| | | 1 | 7 | 23.85 | 23.71 | 23.60 | 0-1 | 1 |
| | | 1 | 14 | 23.83 | 23.71 | 23.64 | 0-1 | 1 |
| | | 8 | 0 | 22.65 | 22.49 | 22.47 | 0-2 | 2 |
| | | 8 | 3 | 22.74 | 22.54 | 22.53 | 0-2 | 2 |
| | | 8 | 7 | 22.68 | 22.49 | 22.51 | 0-2 | 2 |
| | | 15 | 0 | 22.64 | 22.51 | 22.48 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 22.74 | 22.66 | 22.64 | 0-2 | 2 |
| | | 1 | 7 | 22.74 | 22.63 | 22.57 | 0-2 | 2 |
| | | 1 | 14 | 22.77 | 22.66 | 22.60 | 0-2 | 2 |
| | | 8 | 0 | 21.66 | 21.50 | 21.46 | 0-3 | 3 |
| | | 8 | 3 | 21.71 | 21.53 | 21.50 | 0-3 | 3 |
| | | 8 | 7 | 21.70 | 21.49 | 21.49 | 0-3 | 3 |
| | | 15 | 0 | 21.64 | 21.51 | 21.51 | 0-3 | 3 |

LTE Band 26 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|---------------------|---------------------------|----------|
| | | | | 26715 Ch. 816.5 MHz | 26865 Ch. 831.5 MHz | 27015 Ch. 846.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 24.35 | 24.36 | 24.29 | 0 | 0 |
| | | 1 | 12 | 24.53 | 24.41 | 24.38 | 0 | 0 |
| | | 1 | 24 | 24.45 | 24.39 | 24.33 | 0 | 0 |
| | | 12 | 0 | 23.55 | 23.39 | 23.36 | 0-1 | 1 |
| | | 12 | 6 | 23.62 | 23.52 | 23.47 | 0-1 | 1 |
| | | 12 | 11 | 23.58 | 23.46 | 23.44 | 0-1 | 1 |
| | | 25 | 0 | 23.59 | 23.44 | 23.36 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 23.71 | 23.69 | 23.63 | 0-1 | 1 |
| | | 1 | 12 | 23.83 | 23.72 | 23.65 | 0-1 | 1 |
| | | 1 | 24 | 23.77 | 23.72 | 23.71 | 0-1 | 1 |
| | | 12 | 0 | 22.59 | 22.41 | 22.37 | 0-2 | 2 |
| | | 12 | 6 | 22.68 | 22.53 | 22.49 | 0-2 | 2 |
| | | 12 | 11 | 22.66 | 22.50 | 22.45 | 0-2 | 2 |
| | | 25 | 0 | 22.60 | 22.47 | 22.38 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 22.63 | 22.64 | 22.55 | 0-2 | 2 |
| | | 1 | 12 | 22.77 | 22.63 | 22.58 | 0-2 | 2 |
| | | 1 | 24 | 22.69 | 22.67 | 22.62 | 0-2 | 2 |
| | | 12 | 0 | 21.67 | 21.42 | 21.43 | 0-3 | 3 |
| | | 12 | 6 | 21.68 | 21.53 | 21.55 | 0-3 | 3 |
| | | 12 | 11 | 21.66 | 21.50 | 21.52 | 0-3 | 3 |
| | | 25 | 0 | 21.60 | 21.46 | 21.40 | 0-3 | 3 |

LTE Band 26 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|-------------------|---------------------------|----------|
| | | | | 26740 Ch. 819 MHz | 26865 Ch. 831.5 MHz | 26990 Ch. 844 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 24.49 | 24.45 | 24.38 | 0 | 0 |
| | | 1 | 24 | 24.48 | 24.32 | 24.26 | 0 | 0 |
| | | 1 | 49 | 24.52 | 24.32 | 24.30 | 0 | 0 |
| | | 25 | 0 | 23.49 | 23.30 | 23.26 | 0-1 | 1 |
| | | 25 | 12 | 23.62 | 23.45 | 23.35 | 0-1 | 1 |
| | | 25 | 24 | 23.54 | 23.39 | 23.41 | 0-1 | 1 |
| | | 50 | 0 | 23.54 | 23.36 | 23.29 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 23.89 | 23.79 | 23.69 | 0-1 | 1 |
| | | 1 | 24 | 23.90 | 23.73 | 23.70 | 0-1 | 1 |
| | | 1 | 49 | 23.85 | 23.68 | 23.67 | 0-1 | 1 |
| | | 25 | 0 | 22.53 | 22.32 | 22.28 | 0-2 | 2 |
| | | 25 | 12 | 22.61 | 22.50 | 22.37 | 0-2 | 2 |
| | | 25 | 24 | 22.55 | 22.40 | 22.38 | 0-2 | 2 |
| | | 50 | 0 | 22.52 | 22.38 | 22.30 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 22.75 | 22.65 | 22.51 | 0-2 | 2 |
| | | 1 | 24 | 22.76 | 22.63 | 22.53 | 0-2 | 2 |
| | | 1 | 49 | 22.73 | 22.59 | 22.52 | 0-2 | 2 |
| | | 25 | 0 | 21.54 | 21.35 | 21.30 | 0-3 | 3 |
| | | 25 | 12 | 21.67 | 21.53 | 21.41 | 0-3 | 3 |
| | | 25 | 24 | 21.57 | 21.39 | 21.45 | 0-3 | 3 |
| | | 50 | 0 | 21.57 | 21.43 | 21.33 | 0-3 | 3 |

LTE Band 26 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|-----|---------------------------|----------|
| | | | | 26865 Ch. 831.5 MHz | | | |
| 15 MHz | QPSK | 1 | 0 | 24.38 | 0 | 0 | |
| | | 1 | 36 | 24.26 | 0 | 0 | |
| | | 1 | 74 | 24.17 | 0 | 0 | |
| | | 36 | 0 | 23.26 | 0-1 | 1 | |
| | | 36 | 18 | 23.40 | 0-1 | 1 | |
| | | 36 | 39 | 23.29 | 0-1 | 1 | |
| | | 75 | 0 | 23.32 | 0-1 | 1 | |
| | 16QAM | 1 | 0 | 23.66 | 0-1 | 1 | |
| | | 1 | 36 | 23.66 | 0-1 | 1 | |
| | | 1 | 74 | 23.51 | 0-1 | 1 | |
| | | 36 | 0 | 22.29 | 0-2 | 2 | |
| | | 36 | 18 | 22.40 | 0-2 | 2 | |
| | | 36 | 39 | 22.30 | 0-2 | 2 | |
| | | 75 | 0 | 22.32 | 0-2 | 2 | |
| | 64QAM | 1 | 0 | 22.57 | 0-2 | 2 | |
| | | 1 | 36 | 22.50 | 0-2 | 2 | |
| | | 1 | 74 | 22.45 | 0-2 | 2 | |
| | | 36 | 0 | 21.35 | 0-3 | 3 | |
| | | 36 | 18 | 21.43 | 0-3 | 3 | |
| | | 36 | 39 | 21.34 | 0-3 | 3 | |
| | | 75 | 0 | 21.35 | 0-3 | 3 | |

[LTE Band 30 Conducted Power DSI= 0,2]

LTE Band 30_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 27685 Ch. 2307.5 MHz | 27710 Ch. 2310 MHz | 27735 Ch. 2312.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 21.97 | 21.95 | 21.97 | 0 | 0 |
| | | 1 | 12 | 22.06 | 22.07 | 21.99 | 0 | 0 |
| | | 1 | 24 | 22.02 | 21.90 | 21.88 | 0 | 0 |
| | | 12 | 0 | 21.12 | 21.08 | 21.09 | 0-1 | 1 |
| | | 12 | 6 | 21.16 | 21.11 | 21.16 | 0-1 | 1 |
| | | 12 | 11 | 21.13 | 21.10 | 21.07 | 0-1 | 1 |
| | | 25 | 0 | 21.08 | 21.07 | 21.10 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 21.32 | 21.31 | 21.33 | 0-1 | 1 |
| | | 1 | 12 | 21.39 | 21.41 | 21.38 | 0-1 | 1 |
| | | 1 | 24 | 21.34 | 21.22 | 21.27 | 0-1 | 1 |
| | | 12 | 0 | 20.11 | 20.14 | 20.14 | 0-2 | 2 |
| | | 12 | 6 | 20.17 | 20.13 | 20.16 | 0-2 | 2 |
| | | 12 | 11 | 20.14 | 20.12 | 20.12 | 0-2 | 2 |
| | | 25 | 0 | 20.13 | 20.08 | 20.12 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 20.23 | 20.29 | 20.30 | 0-2 | 2 |
| | | 1 | 12 | 20.29 | 20.33 | 20.34 | 0-2 | 2 |
| | | 1 | 24 | 20.29 | 20.28 | 20.12 | 0-2 | 2 |
| | | 12 | 0 | 19.18 | 19.17 | 19.17 | 0-3 | 3 |
| | | 12 | 6 | 19.25 | 19.14 | 19.21 | 0-3 | 3 |
| | | 12 | 11 | 19.19 | 19.15 | 19.09 | 0-3 | 3 |
| | | 25 | 0 | 19.16 | 19.08 | 19.11 | 0-3 | 3 |

LTE Band 30_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------------|----------|
| | | | | 27710 Ch. 2310 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 22.00 | 0 | 0 |
| | | 1 | 24 | 22.06 | 0 | 0 |
| | | 1 | 49 | 22.01 | 0 | 0 |
| | | 25 | 0 | 21.08 | 0-1 | 1 |
| | | 25 | 12 | 21.07 | 0-1 | 1 |
| | | 25 | 24 | 20.98 | 0-1 | 1 |
| | | 50 | 0 | 21.00 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 21.42 | 0-1 | 1 |
| | | 1 | 24 | 21.44 | 0-1 | 1 |
| | | 1 | 49 | 21.35 | 0-1 | 1 |
| | | 25 | 0 | 20.07 | 0-2 | 2 |
| | | 25 | 12 | 20.08 | 0-2 | 2 |
| | | 25 | 24 | 19.97 | 0-2 | 2 |
| | | 50 | 0 | 20.00 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 20.31 | 0-2 | 2 |
| | | 1 | 24 | 20.30 | 0-2 | 2 |
| | | 1 | 49 | 20.22 | 0-2 | 2 |
| | | 25 | 0 | 19.08 | 0-3 | 3 |
| | | 25 | 12 | 19.11 | 0-3 | 3 |
| | | 25 | 24 | 19.00 | 0-3 | 3 |
| | | 50 | 0 | 19.04 | 0-3 | 3 |

[LTE TDD Band 38 Conducted Power DSI= 0,2]

LTE Band 38_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 3775 Ch. 2572.5 MHz | 38000 Ch. 2595 MHz | 38225 Ch. 2617.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 22.89 | 22.73 | 22.85 | 0 | 0 |
| | | 1 | 12 | 22.93 | 22.86 | 22.94 | 0 | 0 |
| | | 1 | 24 | 22.90 | 22.81 | 22.87 | 0 | 0 |
| | | 12 | 0 | 22.03 | 21.94 | 21.99 | 0-1 | 1 |
| | | 12 | 6 | 22.06 | 21.97 | 22.05 | 0-1 | 1 |
| | | 12 | 11 | 22.11 | 22.03 | 22.04 | 0-1 | 1 |
| | | 25 | 0 | 22.02 | 21.91 | 21.99 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.03 | 21.90 | 21.95 | 0-1 | 1 |
| | | 1 | 12 | 22.14 | 22.12 | 22.07 | 0-1 | 1 |
| | | 1 | 24 | 22.07 | 22.03 | 22.01 | 0-1 | 1 |
| | | 12 | 0 | 21.01 | 20.89 | 20.94 | 0-2 | 2 |
| | | 12 | 6 | 21.10 | 20.97 | 21.00 | 0-2 | 2 |
| | | 12 | 11 | 21.06 | 20.96 | 20.99 | 0-2 | 2 |
| | | 25 | 0 | 21.11 | 20.99 | 21.00 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 20.76 | 20.67 | 20.72 | 0-2 | 2 |
| | | 1 | 12 | 20.83 | 20.75 | 20.80 | 0-2 | 2 |
| | | 1 | 24 | 20.83 | 20.71 | 20.79 | 0-2 | 2 |
| | | 12 | 0 | 20.10 | 19.94 | 20.03 | 0-3 | 3 |
| | | 12 | 6 | 20.12 | 19.98 | 20.10 | 0-3 | 3 |
| | | 12 | 11 | 20.09 | 20.03 | 20.00 | 0-3 | 3 |
| 25 | | 0 | 20.10 | 19.99 | 20.04 | 0-3 | 3 | |

LTE Band 38_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|--------------------|---------------------------|----------|
| | | | | 37800 Ch. 2575 MHz | 38000 Ch. 2595 MHz | 38200 Ch. 2615 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 22.68 | 22.90 | 22.88 | 0 | 0 |
| | | 1 | 24 | 22.89 | 22.83 | 22.81 | 0 | 0 |
| | | 1 | 49 | 22.73 | 22.90 | 22.91 | 0 | 0 |
| | | 25 | 0 | 21.95 | 21.81 | 21.82 | 0-1 | 1 |
| | | 25 | 12 | 22.06 | 21.92 | 22.00 | 0-1 | 1 |
| | | 25 | 24 | 22.00 | 21.94 | 21.92 | 0-1 | 1 |
| | | 50 | 0 | 21.99 | 21.83 | 21.91 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 21.75 | 22.05 | 22.03 | 0-1 | 1 |
| | | 1 | 24 | 22.11 | 22.05 | 22.04 | 0-1 | 1 |
| | | 1 | 49 | 21.80 | 22.02 | 22.00 | 0-1 | 1 |
| | | 25 | 0 | 20.93 | 20.86 | 20.82 | 0-2 | 2 |
| | | 25 | 12 | 21.09 | 20.97 | 21.04 | 0-2 | 2 |
| | | 25 | 24 | 21.00 | 20.96 | 20.94 | 0-2 | 2 |
| | | 50 | 0 | 20.97 | 20.91 | 20.95 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 20.46 | 20.62 | 20.63 | 0-2 | 2 |
| | | 1 | 24 | 20.75 | 20.72 | 20.71 | 0-2 | 2 |
| | | 1 | 49 | 20.41 | 20.73 | 20.73 | 0-2 | 2 |
| | | 25 | 0 | 20.05 | 19.93 | 19.90 | 0-3 | 3 |
| | | 25 | 12 | 20.15 | 20.04 | 20.08 | 0-3 | 3 |
| | | 25 | 24 | 20.06 | 19.99 | 20.01 | 0-3 | 3 |
| 50 | | 0 | 20.05 | 19.90 | 19.97 | 0-3 | 3 | |

LTE Band 38 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 37825 Ch. 2507.5 MHz | 38000 Ch. 2595 MHz | 38175 Ch. 2612.5 MHz | | |
| 15 MHz | QPSK | 1 | 0 | 22.97 | 22.92 | 22.90 | 0 | 0 |
| | | 1 | 36 | 22.90 | 22.92 | 22.86 | 0 | 0 |
| | | 1 | 74 | 22.86 | 22.90 | 22.87 | 0 | 0 |
| | | 36 | 0 | 21.98 | 21.85 | 21.84 | 0-1 | 1 |
| | | 36 | 18 | 21.98 | 21.91 | 21.93 | 0-1 | 1 |
| | | 36 | 39 | 21.89 | 21.89 | 21.93 | 0-1 | 1 |
| | | 75 | 0 | 21.91 | 21.86 | 21.87 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.12 | 22.03 | 22.01 | 0-1 | 1 |
| | | 1 | 36 | 22.06 | 21.98 | 22.01 | 0-1 | 1 |
| | | 1 | 74 | 22.05 | 22.06 | 22.05 | 0-1 | 1 |
| | | 36 | 0 | 20.97 | 20.78 | 20.84 | 0-2 | 2 |
| | | 36 | 18 | 20.96 | 20.90 | 20.88 | 0-2 | 2 |
| | | 36 | 39 | 20.85 | 20.89 | 20.91 | 0-2 | 2 |
| | | 75 | 0 | 20.94 | 20.89 | 20.88 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 20.89 | 20.73 | 20.66 | 0-2 | 2 |
| | | 1 | 36 | 20.83 | 20.75 | 20.81 | 0-2 | 2 |
| | | 1 | 74 | 20.69 | 20.74 | 20.81 | 0-2 | 2 |
| | | 36 | 0 | 20.03 | 19.90 | 19.90 | 0-3 | 3 |
| | | 36 | 18 | 19.98 | 19.96 | 19.96 | 0-3 | 3 |
| | | 36 | 39 | 19.91 | 19.95 | 19.93 | 0-3 | 3 |
| | | 75 | 0 | 19.94 | 19.89 | 19.89 | 0-3 | 3 |

LTE Band 38 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------------|----------|
| | | | | 38000 Ch. 2595 MHz | | |
| 20 MHz | QPSK | 1 | 0 | 22.89 | 0 | 0 |
| | | 1 | 49 | 22.89 | 0 | 0 |
| | | 1 | 99 | 22.85 | 0 | 0 |
| | | 50 | 0 | 21.81 | 0-1 | 1 |
| | | 50 | 25 | 21.92 | 0-1 | 1 |
| | | 50 | 49 | 21.91 | 0-1 | 1 |
| | | 100 | 0 | 21.83 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.09 | 0-1 | 1 |
| | | 1 | 49 | 22.05 | 0-1 | 1 |
| | | 1 | 99 | 22.06 | 0-1 | 1 |
| | | 50 | 0 | 20.84 | 0-2 | 2 |
| | | 50 | 25 | 20.95 | 0-2 | 2 |
| | | 50 | 49 | 20.94 | 0-2 | 2 |
| | | 100 | 0 | 20.83 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 20.83 | 0-2 | 2 |
| | | 1 | 49 | 20.77 | 0-2 | 2 |
| | | 1 | 99 | 20.77 | 0-2 | 2 |
| | | 50 | 0 | 19.88 | 0-3 | 3 |
| | | 50 | 25 | 19.98 | 0-3 | 3 |
| | | 50 | 49 | 19.93 | 0-3 | 3 |
| | | 100 | 0 | 19.87 | 0-3 | 3 |

[LTE Band 40 Low Side (MCC310) Conducted Power ,DSI= 0,1,2,3,4]

LTE Band 40 Low Side (MCC310) _ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 38725 Ch. 2307.5 MHz | 38750 Ch. 2310 MHz | 38775 Ch. 2312.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 9.36 | 9.41 | 9.35 | 0 | 0 |
| | | 1 | 12 | 9.38 | 9.45 | 9.38 | 0 | 0 |
| | | 1 | 24 | 9.24 | 9.30 | 9.25 | 0 | 0 |
| | | 12 | 0 | 9.47 | 9.50 | 9.48 | 0-1 | 0 |
| | | 12 | 6 | 9.50 | 9.53 | 9.53 | 0-1 | 0 |
| | | 12 | 11 | 9.39 | 9.39 | 9.43 | 0-1 | 0 |
| | 16QAM | 25 | 0 | 9.52 | 9.49 | 9.49 | 0-1 | 0 |
| | | 1 | 0 | 9.53 | 9.46 | 9.51 | 0-1 | 0 |
| | | 1 | 12 | 9.61 | 9.61 | 9.58 | 0-1 | 0 |
| | | 1 | 24 | 9.43 | 9.41 | 9.42 | 0-1 | 0 |
| | | 12 | 0 | 9.52 | 9.48 | 9.48 | 0-2 | 0 |
| | | 12 | 6 | 9.53 | 9.51 | 9.55 | 0-2 | 0 |
| | 64QAM | 12 | 11 | 9.41 | 9.39 | 9.42 | 0-2 | 0 |
| | | 25 | 0 | 9.55 | 9.56 | 9.54 | 0-2 | 0 |
| | | 1 | 0 | 9.24 | 9.28 | 9.27 | 0-2 | 0 |
| | | 1 | 12 | 9.32 | 9.28 | 9.30 | 0-2 | 0 |
| | | 1 | 24 | 9.20 | 9.16 | 9.19 | 0-2 | 0 |
| | | 12 | 0 | 9.55 | 9.53 | 9.51 | 0-3 | 0 |
| | | 12 | 6 | 9.56 | 9.56 | 9.56 | 0-3 | 0 |
| | | 12 | 11 | 9.48 | 9.44 | 9.43 | 0-3 | 0 |
| | | 25 | 0 | 9.53 | 9.52 | 9.52 | 0-3 | 0 |

LTE Band 40 _ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------------|----------|
| | | | | 38750 Ch. 2310 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 9.08 | 0 | 0 |
| | | 1 | 24 | 9.37 | 0 | 0 |
| | | 1 | 49 | 9.06 | 0 | 0 |
| | | 25 | 0 | 9.43 | 0-1 | 0 |
| | | 25 | 12 | 9.48 | 0-1 | 0 |
| | | 25 | 24 | 9.28 | 0-1 | 0 |
| | 16QAM | 50 | 0 | 9.40 | 0-1 | 0 |
| | | 1 | 0 | 9.30 | 0-1 | 0 |
| | | 1 | 24 | 9.55 | 0-1 | 0 |
| | | 1 | 49 | 9.27 | 0-1 | 0 |
| | | 25 | 0 | 9.46 | 0-2 | 0 |
| | | 25 | 12 | 9.56 | 0-2 | 0 |
| | 64QAM | 25 | 24 | 9.30 | 0-2 | 0 |
| | | 50 | 0 | 9.47 | 0-2 | 0 |
| | | 1 | 0 | 8.98 | 0-2 | 0 |
| | | 1 | 24 | 9.23 | 0-2 | 0 |
| | | 1 | 49 | 8.88 | 0-2 | 0 |
| | | 25 | 0 | 9.48 | 0-3 | 0 |
| | | 25 | 12 | 9.60 | 0-3 | 0 |
| | | 25 | 24 | 9.52 | 0-3 | 0 |
| | | 50 | 0 | 9.52 | 0-3 | 0 |

[LTE Band 40 Upper Side (MCC310) Conducted Power]
 LTE Band 40 Upper Side (MCC310) _ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 39175 Ch. 2352.5 MHz | 39200 Ch. 2355 MHz | 39225 Ch. 2357.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 9.40 | 9.48 | 9.49 | 0 | 0 |
| | | 1 | 12 | 9.42 | 9.50 | 9.52 | 0 | 0 |
| | | 1 | 24 | 9.34 | 9.45 | 9.46 | 0 | 0 |
| | | 12 | 0 | 9.56 | 9.55 | 9.57 | 0-1 | 0 |
| | | 12 | 6 | 9.56 | 9.58 | 9.59 | 0-1 | 0 |
| | | 12 | 11 | 9.54 | 9.52 | 9.57 | 0-1 | 0 |
| | 16QAM | 25 | 0 | 9.55 | 9.59 | 9.60 | 0-1 | 0 |
| | | 1 | 0 | 9.55 | 9.57 | 9.57 | 0-1 | 0 |
| | | 1 | 12 | 9.68 | 9.69 | 9.69 | 0-1 | 0 |
| | | 1 | 24 | 9.49 | 9.55 | 9.57 | 0-1 | 0 |
| | | 12 | 0 | 9.58 | 9.57 | 9.59 | 0-2 | 0 |
| | | 12 | 6 | 9.59 | 9.58 | 9.64 | 0-2 | 0 |
| | 64QAM | 12 | 11 | 9.55 | 9.54 | 9.58 | 0-2 | 0 |
| | | 25 | 0 | 9.62 | 9.63 | 9.62 | 0-2 | 0 |
| | | 1 | 0 | 9.31 | 9.36 | 9.37 | 0-2 | 0 |
| | | 1 | 12 | 9.39 | 9.39 | 9.43 | 0-2 | 0 |
| | | 1 | 24 | 9.28 | 9.33 | 9.35 | 0-2 | 0 |
| | | 12 | 0 | 9.60 | 9.61 | 9.63 | 0-3 | 0 |
| | | 12 | 6 | 9.64 | 9.64 | 9.66 | 0-3 | 0 |
| | | 12 | 11 | 9.58 | 9.57 | 9.58 | 0-3 | 0 |
| | | 25 | 0 | 9.62 | 9.62 | 9.64 | 0-3 | 0 |

LTE Band 40 Upper Side (MCC310) _ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------------|----------|
| | | | | 39200Ch. 2355 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 9.20 | 0 | 0 |
| | | 1 | 24 | 9.47 | 0 | 0 |
| | | 1 | 49 | 9.19 | 0 | 0 |
| | | 25 | 0 | 9.49 | 0-1 | 0 |
| | | 25 | 12 | 9.56 | 0-1 | 0 |
| | | 25 | 24 | 9.49 | 0-1 | 0 |
| | 16QAM | 50 | 0 | 9.51 | 0-1 | 0 |
| | | 1 | 0 | 9.37 | 0-1 | 0 |
| | | 1 | 24 | 9.63 | 0-1 | 0 |
| | | 1 | 49 | 9.34 | 0-1 | 0 |
| | | 25 | 0 | 9.54 | 0-2 | 0 |
| | | 25 | 12 | 9.61 | 0-2 | 0 |
| | 64QAM | 25 | 24 | 9.47 | 0-2 | 0 |
| | | 50 | 0 | 9.52 | 0-2 | 0 |
| | | 1 | 0 | 9.10 | 0-2 | 0 |
| | | 1 | 24 | 9.34 | 0-2 | 0 |
| | | 1 | 49 | 9.07 | 0-2 | 0 |
| | | 25 | 0 | 9.56 | 0-3 | 0 |
| | | 25 | 12 | 9.65 | 0-3 | 0 |
| | | 25 | 24 | 9.61 | 0-3 | 0 |
| | | 50 | 0 | 9.57 | 0-3 | 0 |

[LTE Band 41 Conducted Power] - Power Class 3, DSI= 0,2

LTE Band 41 _ 5 MHz Bandwidth - Power Class 3

| Band width | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | | | MPR Allowed Per GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|--------------------------|----------------------|----------------------|----------------------|----------------------|--------------------------|----------|
| | | | | 39675 Ch. 2498.5 MHz | 40148 Ch. 2545.8 MHz | 40620 Ch. 2593.0 MHz | 41093 Ch. 2640.3 MHz | 41565 Ch. 2687.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 23.59 | 23.66 | 23.46 | 23.25 | 23.40 | 0 | 0 |
| | | 1 | 12 | 23.57 | 23.64 | 23.43 | 23.31 | 23.39 | 0 | 0 |
| | | 1 | 24 | 23.58 | 23.59 | 23.40 | 23.27 | 23.31 | 0 | 0 |
| | | 12 | 0 | 22.74 | 22.64 | 22.46 | 22.37 | 22.50 | 0-1 | 1 |
| | | 12 | 6 | 22.71 | 22.71 | 22.48 | 22.39 | 22.49 | 0-1 | 1 |
| | | 12 | 11 | 22.73 | 22.70 | 22.45 | 22.47 | 22.46 | 0-1 | 1 |
| | | 25 | 0 | 22.66 | 22.69 | 22.48 | 22.36 | 22.51 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.79 | 22.74 | 22.59 | 22.47 | 22.55 | 0-1 | 1 |
| | | 1 | 12 | 22.79 | 22.80 | 22.64 | 22.54 | 22.61 | 0-1 | 1 |
| | | 1 | 24 | 22.81 | 22.73 | 22.55 | 22.46 | 22.52 | 0-1 | 1 |
| | | 12 | 0 | 21.69 | 21.69 | 21.49 | 21.36 | 21.48 | 0-2 | 2 |
| | | 12 | 6 | 21.72 | 21.69 | 21.51 | 21.38 | 21.51 | 0-2 | 2 |
| | | 12 | 11 | 21.70 | 21.68 | 21.50 | 21.42 | 21.49 | 0-2 | 2 |
| | | 25 | 0 | 21.72 | 21.73 | 21.53 | 21.42 | 21.53 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 21.52 | 21.46 | 21.27 | 21.14 | 21.31 | 0-2 | 2 |
| | | 1 | 12 | 21.44 | 21.47 | 21.28 | 21.23 | 21.32 | 0-2 | 2 |
| | | 1 | 24 | 21.49 | 21.42 | 21.22 | 21.21 | 21.29 | 0-2 | 2 |
| | | 12 | 0 | 20.74 | 20.72 | 20.55 | 20.44 | 20.54 | 0-3 | 3 |
| | | 12 | 6 | 20.74 | 20.78 | 20.56 | 20.49 | 20.54 | 0-3 | 3 |
| | | 12 | 11 | 20.74 | 20.76 | 20.53 | 20.50 | 20.55 | 0-3 | 3 |
| | | 25 | 0 | 20.76 | 20.76 | 20.54 | 20.47 | 20.56 | 0-3 | 3 |

LTE Band 41 _ 10 MHz Bandwidth - Power Class 3

| Band width | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|--------------------------|--------------------|--------------------|--------------------|--------------------|---------------------------|----------|
| | | | | 39700 Ch. 2501 MHz | 40160 Ch. 2547 MHz | 40620 Ch. 2593 MHz | 41080 Ch. 2639 MHz | 41540 Ch. 2685 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 23.63 | 23.39 | 23.17 | 23.21 | 23.19 | 0 | 0 |
| | | 1 | 24 | 23.55 | 23.51 | 23.29 | 23.50 | 23.35 | 0 | 0 |
| | | 1 | 49 | 23.60 | 23.31 | 23.10 | 23.17 | 23.13 | 0 | 0 |
| | | 25 | 0 | 22.71 | 22.61 | 22.42 | 22.30 | 22.35 | 0-1 | 1 |
| | | 25 | 12 | 22.74 | 22.69 | 22.48 | 22.47 | 22.42 | 0-1 | 1 |
| | | 25 | 24 | 22.71 | 22.53 | 22.42 | 22.33 | 22.40 | 0-1 | 1 |
| | | 50 | 0 | 22.68 | 22.58 | 22.39 | 22.40 | 22.34 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.74 | 22.49 | 22.28 | 22.28 | 22.33 | 0-1 | 1 |
| | | 1 | 24 | 22.74 | 22.71 | 22.50 | 22.49 | 22.55 | 0-1 | 1 |
| | | 1 | 49 | 22.71 | 22.45 | 22.25 | 22.19 | 22.25 | 0-1 | 1 |
| | | 25 | 0 | 21.71 | 21.61 | 21.46 | 21.32 | 21.36 | 0-2 | 2 |
| | | 25 | 12 | 21.78 | 21.74 | 21.50 | 21.51 | 21.44 | 0-2 | 2 |
| | | 25 | 24 | 21.75 | 21.58 | 21.42 | 21.38 | 21.42 | 0-2 | 2 |
| | | 50 | 0 | 21.69 | 21.65 | 21.44 | 21.41 | 21.36 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 21.43 | 21.33 | 20.96 | 20.86 | 20.89 | 0-2 | 2 |
| | | 1 | 24 | 21.39 | 21.50 | 21.21 | 21.14 | 21.25 | 0-2 | 2 |
| | | 1 | 49 | 21.38 | 21.28 | 20.91 | 20.86 | 20.93 | 0-2 | 2 |
| | | 25 | 0 | 20.77 | 20.66 | 20.52 | 20.38 | 20.42 | 0-3 | 3 |
| | | 25 | 12 | 20.80 | 20.84 | 20.56 | 20.53 | 20.55 | 0-3 | 3 |
| | | 25 | 24 | 20.79 | 20.69 | 20.50 | 20.42 | 20.51 | 0-3 | 3 |
| | | 50 | 0 | 20.72 | 20.68 | 20.49 | 20.44 | 20.41 | 0-3 | 3 |

LTE Band 41 _ 15 MHz Bandwidth- Power Class 3

| Band width | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|--------------------------|----------------------|----------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 39725 Ch. 2503.5 MHz | 40173 Ch. 2548.3 MHz | 40620 Ch. 2593.0 MHz | 41068 Ch. 2637.8 MHz | 41515 Ch. 2682.5 MHz | | |
| 15 MHz | QPSK | 1 | 0 | 23.65 | 23.43 | 23.15 | 23.31 | 23.07 | 0 | 0 |
| | | 1 | 36 | 23.59 | 23.56 | 23.30 | 23.37 | 23.29 | 0 | 0 |
| | | 1 | 74 | 23.60 | 23.30 | 23.17 | 23.13 | 23.26 | 0 | 0 |
| | | 36 | 0 | 22.66 | 22.52 | 22.37 | 22.31 | 22.26 | 0-1 | 1 |
| | | 36 | 18 | 22.67 | 22.61 | 22.48 | 22.43 | 22.44 | 0-1 | 1 |
| | | 36 | 39 | 22.65 | 22.43 | 22.40 | 22.31 | 22.46 | 0-1 | 1 |
| | | 75 | 0 | 22.59 | 22.44 | 22.39 | 22.38 | 22.38 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.68 | 22.48 | 22.27 | 22.36 | 22.21 | 0-1 | 1 |
| | | 1 | 36 | 22.63 | 22.60 | 22.39 | 22.42 | 22.44 | 0-1 | 1 |
| | | 1 | 74 | 22.67 | 22.40 | 22.32 | 22.16 | 22.45 | 0-1 | 1 |
| | | 36 | 0 | 21.62 | 21.51 | 21.35 | 21.28 | 21.23 | 0-2 | 2 |
| | | 36 | 18 | 21.63 | 21.55 | 21.43 | 21.39 | 21.43 | 0-2 | 2 |
| | | 36 | 39 | 21.63 | 21.38 | 21.38 | 21.28 | 21.40 | 0-2 | 2 |
| | | 75 | 0 | 21.64 | 21.48 | 21.43 | 21.40 | 21.43 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 21.38 | 21.22 | 21.01 | 20.99 | 20.90 | 0-2 | 2 |
| | | 1 | 36 | 21.39 | 21.37 | 21.19 | 21.17 | 21.22 | 0-2 | 2 |
| | | 1 | 74 | 21.42 | 21.06 | 21.03 | 20.91 | 21.18 | 0-2 | 2 |
| | | 36 | 0 | 20.66 | 20.59 | 20.44 | 20.33 | 20.28 | 0-3 | 3 |
| | | 36 | 18 | 20.70 | 20.63 | 20.49 | 20.43 | 20.47 | 0-3 | 3 |
| | | 36 | 39 | 20.66 | 20.45 | 20.43 | 20.34 | 20.47 | 0-3 | 3 |
| | | 75 | 0 | 20.65 | 20.48 | 20.46 | 20.41 | 20.43 | 0-3 | 3 |

LTE Band 41 _ 20 MHz Bandwidth - Power Class 3

| Band width | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|--------------------------|----------------------|----------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 39750 Ch. 2506.0 MHz | 40185 Ch. 2549.5 MHz | 40620 Ch. 2593.0 MHz | 41055 Ch. 2636.5 MHz | 41490 Ch. 2680.0 MHz | | |
| 20 MHz | QPSK | 1 | 0 | 23.55 | 23.58 | 23.03 | 23.07 | 23.01 | 0 | 0 |
| | | 1 | 49 | 23.51 | 23.55 | 23.33 | 23.26 | 23.27 | 0 | 0 |
| | | 1 | 99 | 23.53 | 23.51 | 23.01 | 23.02 | 23.17 | 0 | 0 |
| | | 50 | 0 | 22.66 | 22.57 | 22.35 | 22.28 | 22.21 | 0-1 | 1 |
| | | 50 | 25 | 22.68 | 22.50 | 22.45 | 22.32 | 22.36 | 0-1 | 1 |
| | | 50 | 49 | 22.65 | 22.45 | 22.40 | 22.25 | 22.41 | 0-1 | 1 |
| | | 100 | 0 | 22.60 | 22.42 | 22.38 | 22.23 | 22.28 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.71 | 22.65 | 22.16 | 22.15 | 22.08 | 0-1 | 1 |
| | | 1 | 49 | 22.66 | 22.61 | 22.42 | 22.39 | 22.44 | 0-1 | 1 |
| | | 1 | 99 | 22.66 | 22.57 | 22.12 | 22.05 | 22.31 | 0-1 | 1 |
| | | 50 | 0 | 21.69 | 21.62 | 21.39 | 21.31 | 21.25 | 0-2 | 2 |
| | | 50 | 25 | 21.71 | 21.54 | 21.49 | 21.35 | 21.38 | 0-2 | 2 |
| | | 50 | 49 | 21.68 | 21.50 | 21.44 | 21.29 | 21.44 | 0-2 | 2 |
| | | 100 | 0 | 21.63 | 21.46 | 21.40 | 21.25 | 21.27 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 21.44 | 21.42 | 20.91 | 20.84 | 20.76 | 0-2 | 2 |
| | | 1 | 49 | 21.39 | 21.36 | 21.20 | 21.18 | 21.12 | 0-2 | 2 |
| | | 1 | 99 | 21.40 | 21.28 | 20.85 | 20.68 | 21.06 | 0-2 | 2 |
| | | 50 | 0 | 20.70 | 20.64 | 20.42 | 20.32 | 20.25 | 0-3 | 3 |
| | | 50 | 25 | 20.72 | 20.57 | 20.54 | 20.35 | 20.39 | 0-3 | 3 |
| | | 50 | 49 | 20.69 | 20.53 | 20.45 | 20.30 | 20.46 | 0-3 | 3 |
| | | 100 | 0 | 20.63 | 20.47 | 20.40 | 20.26 | 20.30 | 0-3 | 3 |

Note; LTE Band 41 has 5 required test channels per FCC KDB 447498 D01v06.

[LTE Band 41 Conducted Power] - Power Class 2 DSI= 0, 2

LTE Band 41 _ 5 MHz Bandwidth - Power Class 2

| Band width | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | | | MPR Allowed Per GPP [dB] | MPR [dB] | |
|------------|------------|---------|-----------|--------------------------|----------------------|----------------------|----------------------|----------------------|--------------------------|----------|---|
| | | | | 39675 Ch. 2498.5 MHz | 40148 Ch. 2545.8 MHz | 40620 Ch. 2593.0 MHz | 41093 Ch. 2640.3 MHz | 41565 Ch. 2687.5 MHz | | | |
| 5 MHz | QPSK | 1 | 0 | 25.49 | 25.94 | 25.75 | 25.26 | 25.74 | 0 | 0 | |
| | | 1 | 12 | 25.47 | 25.95 | 25.73 | 25.24 | 25.71 | 0 | 0 | |
| | | 1 | 24 | 25.52 | 25.94 | 25.73 | 25.24 | 25.66 | 0 | 0 | |
| | | 12 | 0 | 24.59 | 25.07 | 24.89 | 24.36 | 24.88 | 0-1 | 1 | |
| | | 12 | 6 | 24.62 | 25.06 | 24.90 | 24.42 | 24.91 | 0-1 | 1 | |
| | | 12 | 11 | 24.60 | 25.05 | 24.86 | 24.42 | 24.87 | 0-1 | 1 | |
| | 16QAM | 25 | 0 | 24.57 | 25.08 | 24.86 | 24.36 | 24.83 | 0-1 | 1 | |
| | | 1 | 0 | 24.76 | 25.19 | 24.99 | 24.60 | 24.98 | 0-1 | 1 | |
| | | 1 | 12 | 24.73 | 25.23 | 25.00 | 24.59 | 24.99 | 0-1 | 1 | |
| | | 1 | 24 | 24.79 | 25.17 | 24.99 | 24.62 | 24.95 | 0-1 | 1 | |
| | | 12 | 0 | 23.66 | 24.14 | 23.94 | 23.55 | 23.92 | 0-2 | 2 | |
| | | 12 | 6 | 23.68 | 24.16 | 23.95 | 23.58 | 23.97 | 0-2 | 2 | |
| | 64QAM | 12 | 11 | 23.66 | 24.15 | 23.90 | 23.58 | 23.95 | 0-2 | 2 | |
| | | 25 | 0 | 23.63 | 24.13 | 23.93 | 23.56 | 23.95 | 0-2 | 2 | |
| | | 1 | 0 | 23.29 | 23.96 | 23.23 | 22.63 | 23.18 | 0-2 | 2 | |
| | | 1 | 12 | 23.37 | 23.99 | 23.18 | 22.61 | 23.16 | 0-2 | 2 | |
| | | 1 | 24 | 23.50 | 24.04 | 23.15 | 22.65 | 23.16 | 0-2 | 2 | |
| | | 12 | 0 | 22.33 | 22.99 | 22.23 | 21.67 | 22.24 | 0-3 | 3 | |
| | 5 MHz | 64QAM | 12 | 6 | 22.42 | 23.05 | 22.24 | 21.70 | 22.27 | 0-3 | 3 |
| | | | 12 | 11 | 22.44 | 23.03 | 22.18 | 21.69 | 22.24 | 0-3 | 3 |
| | | | 25 | 0 | 22.38 | 22.99 | 22.20 | 21.68 | 22.20 | 0-3 | 3 |

LTE Band 41 _ 10 MHz Bandwidth - Power Class 2

| Band width | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | | | MPR Allowed Per 3GPP [dB] | MPR [dB] | |
|------------|------------|---------|-----------|--------------------------|--------------------|--------------------|--------------------|--------------------|---------------------------|----------|---|
| | | | | 39700 Ch. 2501 MHz | 40160 Ch. 2547 MHz | 40620 Ch. 2593 MHz | 41080 Ch. 2639 MHz | 41540 Ch. 2685 MHz | | | |
| 10 MHz | QPSK | 1 | 0 | 25.45 | 25.66 | 25.51 | 25.34 | 25.54 | 0 | 0 | |
| | | 1 | 24 | 25.41 | 25.92 | 25.72 | 25.31 | 25.72 | 0 | 0 | |
| | | 1 | 49 | 25.42 | 25.64 | 25.48 | 25.25 | 25.49 | 0 | 0 | |
| | | 25 | 0 | 24.61 | 25.02 | 24.83 | 24.42 | 24.79 | 0-1 | 1 | |
| | | 25 | 12 | 24.63 | 25.08 | 24.91 | 24.44 | 24.86 | 0-1 | 1 | |
| | | 25 | 24 | 24.60 | 24.98 | 24.83 | 24.41 | 24.84 | 0-1 | 1 | |
| | 16QAM | 50 | 0 | 24.52 | 25.00 | 24.84 | 24.39 | 24.73 | 0-1 | 1 | |
| | | 1 | 0 | 24.80 | 25.01 | 24.83 | 24.60 | 24.79 | 0-1 | 1 | |
| | | 1 | 24 | 24.77 | 25.29 | 25.05 | 24.58 | 25.08 | 0-1 | 1 | |
| | | 1 | 49 | 24.79 | 24.98 | 24.76 | 24.56 | 24.77 | 0-1 | 1 | |
| | | 25 | 0 | 23.64 | 24.03 | 23.83 | 23.54 | 23.80 | 0-2 | 2 | |
| | | 25 | 12 | 23.67 | 24.11 | 23.95 | 23.56 | 23.88 | 0-2 | 2 | |
| | 64QAM | 25 | 24 | 23.64 | 24.05 | 23.87 | 23.55 | 23.85 | 0-2 | 2 | |
| | | 50 | 0 | 23.59 | 24.04 | 23.86 | 23.52 | 23.79 | 0-2 | 2 | |
| | | 1 | 0 | 23.37 | 23.91 | 23.21 | 22.59 | 23.11 | 0-2 | 2 | |
| | | 1 | 24 | 23.52 | 23.97 | 23.16 | 22.58 | 23.15 | 0-2 | 2 | |
| | | 1 | 49 | 23.59 | 23.86 | 23.12 | 22.54 | 23.09 | 0-2 | 2 | |
| | | 25 | 0 | 22.48 | 22.98 | 22.27 | 21.68 | 22.20 | 0-3 | 3 | |
| | 10 MHz | 64QAM | 25 | 12 | 22.58 | 23.05 | 22.26 | 21.69 | 22.22 | 0-3 | 3 |
| | | | 25 | 24 | 22.58 | 23.05 | 22.20 | 21.67 | 22.21 | 0-3 | 3 |
| | | | 50 | 0 | 22.45 | 22.93 | 22.14 | 21.63 | 22.10 | 0-3 | 3 |

LTE Band 41 _ 15 MHz Bandwidth- Power Class 2

| Band width | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|--------------------------|----------------------|----------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 39725 Ch. 2503.5 MHz | 40173 Ch. 2548.3 MHz | 40620 Ch. 2593.0 MHz | 41068 Ch. 2637.8 MHz | 41515 Ch. 2682.5 MHz | | |
| 15 MHz | QPSK | 1 | 0 | 25.43 | 25.69 | 25.59 | 25.62 | 25.46 | 0 | 0 |
| | | 1 | 36 | 25.42 | 25.83 | 25.68 | 25.62 | 25.65 | 0 | 0 |
| | | 1 | 74 | 25.44 | 25.60 | 25.56 | 25.47 | 25.65 | 0 | 0 |
| | | 36 | 0 | 24.55 | 24.92 | 24.76 | 24.47 | 24.67 | 0-1 | 1 |
| | | 36 | 18 | 24.61 | 25.02 | 24.86 | 24.46 | 24.83 | 0-1 | 1 |
| | | 36 | 39 | 24.52 | 24.83 | 24.81 | 24.45 | 24.81 | 0-1 | 1 |
| | | 75 | 0 | 24.50 | 24.83 | 24.82 | 24.47 | 24.76 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 24.74 | 25.00 | 24.81 | 24.72 | 24.77 | 0-1 | 1 |
| | | 1 | 36 | 24.70 | 25.17 | 25.06 | 24.59 | 25.01 | 0-1 | 1 |
| | | 1 | 74 | 24.71 | 24.88 | 24.82 | 24.61 | 24.93 | 0-1 | 1 |
| | | 36 | 0 | 23.52 | 23.90 | 23.75 | 23.55 | 23.62 | 0-2 | 2 |
| | | 36 | 18 | 23.56 | 23.95 | 23.81 | 23.53 | 23.83 | 0-2 | 2 |
| | | 36 | 39 | 23.55 | 23.80 | 23.78 | 23.53 | 23.82 | 0-2 | 2 |
| | | 75 | 0 | 23.54 | 23.87 | 23.82 | 23.58 | 23.82 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 23.39 | 23.85 | 23.35 | 22.70 | 23.11 | 0-2 | 2 |
| | | 1 | 36 | 23.54 | 23.96 | 23.18 | 22.59 | 23.13 | 0-2 | 2 |
| | | 1 | 74 | 23.52 | 23.68 | 23.17 | 22.66 | 23.15 | 0-2 | 2 |
| | | 36 | 0 | 22.47 | 22.96 | 22.24 | 21.67 | 22.12 | 0-3 | 3 |
| | | 36 | 18 | 22.54 | 23.00 | 22.19 | 21.65 | 22.14 | 0-3 | 3 |
| | | 36 | 39 | 22.52 | 22.84 | 22.18 | 21.61 | 22.14 | 0-3 | 3 |
| | | 75 | 0 | 22.49 | 22.88 | 22.19 | 21.64 | 22.12 | 0-3 | 3 |

LTE Band 41 _ 20 MHz Bandwidth - Power Class 2

| Band width | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|--------------------------|----------------------|----------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 39750 Ch. 2506.0 MHz | 40185 Ch. 2549.5 MHz | 40620 Ch. 2593.0 MHz | 41055 Ch. 2636.5 MHz | 41490 Ch. 2680.0 MHz | | |
| 20 MHz | QPSK | 1 | 0 | 25.47 | 25.90 | 25.36 | 25.38 | 25.29 | 0 | 0 |
| | | 1 | 49 | 25.46 | 25.93 | 25.75 | 25.53 | 25.66 | 0 | 0 |
| | | 1 | 99 | 25.44 | 25.81 | 25.46 | 25.18 | 25.53 | 0 | 0 |
| | | 50 | 0 | 24.57 | 24.97 | 24.71 | 24.53 | 24.58 | 0-1 | 1 |
| | | 50 | 25 | 24.57 | 24.90 | 24.84 | 24.48 | 24.74 | 0-1 | 1 |
| | | 50 | 49 | 24.54 | 24.86 | 24.78 | 24.36 | 24.80 | 0-1 | 1 |
| | | 100 | 0 | 24.48 | 24.79 | 24.79 | 24.59 | 24.65 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 24.71 | 25.16 | 24.69 | 24.68 | 24.57 | 0-1 | 1 |
| | | 1 | 49 | 24.69 | 25.15 | 24.96 | 24.73 | 24.99 | 0-1 | 1 |
| | | 1 | 99 | 24.76 | 25.14 | 24.65 | 24.51 | 24.81 | 0-1 | 1 |
| | | 50 | 0 | 23.58 | 23.99 | 23.78 | 23.60 | 23.63 | 0-2 | 2 |
| | | 50 | 25 | 23.62 | 23.94 | 23.92 | 23.63 | 23.76 | 0-2 | 2 |
| | | 50 | 49 | 23.58 | 23.90 | 23.83 | 23.60 | 23.85 | 0-2 | 2 |
| | | 100 | 0 | 23.52 | 23.84 | 23.81 | 23.59 | 23.71 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 23.48 | 24.03 | 23.39 | 22.61 | 23.01 | 0-2 | 2 |
| | | 1 | 49 | 23.56 | 23.98 | 23.28 | 22.75 | 23.14 | 0-2 | 2 |
| | | 1 | 99 | 23.56 | 23.93 | 23.05 | 22.57 | 23.02 | 0-2 | 2 |
| | | 50 | 0 | 22.55 | 23.02 | 22.34 | 21.71 | 22.06 | 0-3 | 3 |
| | | 50 | 25 | 22.60 | 22.98 | 22.27 | 21.70 | 22.12 | 0-3 | 3 |
| | | 50 | 49 | 22.57 | 22.95 | 22.13 | 21.67 | 22.12 | 0-3 | 3 |
| | | 100 | 0 | 22.48 | 22.87 | 22.21 | 21.68 | 22.07 | 0-3 | 3 |

Note; LTE Band 41 has 5 required test channels per FCC KDB 447498 D01v06.

[LTE Band 66 Conducted Power DSI= 0, 2]

LTE Band 66 _ 1.4 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|-----------------------|---------------------------|----------|
| | | | | 131979Ch. 1710.7 MHz | 132322 Ch. 1745 MHz | 132665 Ch. 1779.3 MHz | | |
| 1.4 MHz | QPSK | 1 | 0 | 23.92 | 24.11 | 24.00 | 0 | 0 |
| | | 1 | 3 | 23.96 | 24.15 | 24.05 | 0 | 0 |
| | | 1 | 5 | 23.85 | 24.09 | 23.94 | 0 | 0 |
| | | 3 | 0 | 23.99 | 24.06 | 24.10 | 0 | 0 |
| | | 3 | 1 | 24.01 | 24.16 | 24.13 | 0 | 0 |
| | | 3 | 3 | 23.98 | 24.07 | 24.05 | 0 | 0 |
| | 16QAM | 6 | 0 | 23.06 | 23.21 | 23.20 | 0-1 | 1 |
| | | 1 | 0 | 23.42 | 23.08 | 23.59 | 0-1 | 1 |
| | | 1 | 3 | 23.45 | 23.14 | 23.50 | 0-1 | 1 |
| | | 1 | 5 | 23.39 | 23.08 | 23.38 | 0-1 | 1 |
| | | 3 | 0 | 23.08 | 23.23 | 23.23 | 0-1 | 1 |
| | | 3 | 1 | 23.15 | 23.32 | 23.28 | 0-1 | 1 |
| | 64QAM | 3 | 3 | 23.06 | 23.23 | 23.16 | 0-1 | 1 |
| | | 6 | 0 | 22.22 | 22.13 | 22.22 | 0-2 | 2 |
| | | 1 | 0 | 21.71 | 22.49 | 22.52 | 0-2 | 2 |
| | | 1 | 3 | 21.76 | 22.56 | 22.49 | 0-2 | 2 |
| | | 1 | 5 | 21.71 | 22.47 | 22.41 | 0-2 | 2 |
| | | 3 | 0 | 21.78 | 22.39 | 22.35 | 0-2 | 2 |
| | | 3 | 1 | 21.81 | 22.48 | 22.40 | 0-2 | 2 |
| | | 3 | 3 | 21.80 | 22.44 | 22.30 | 0-2 | 2 |
| | | 6 | 0 | 20.63 | 21.19 | 21.21 | 0-3 | 3 |

LTE Band 66 _ 3 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|-----------------------|---------------------------|----------|
| | | | | 131987 Ch. 1711.5 MHz | 132322 Ch. 1745 MHz | 132657 Ch. 1778.5 MHz | | |
| 3 MHz | QPSK | 1 | 0 | 24.11 | 24.20 | 24.19 | 0 | 0 |
| | | 1 | 7 | 24.11 | 24.21 | 24.18 | 0 | 0 |
| | | 1 | 14 | 24.08 | 24.12 | 24.08 | 0 | 0 |
| | | 8 | 0 | 23.20 | 23.23 | 23.23 | 0-1 | 1 |
| | | 8 | 3 | 23.24 | 23.24 | 23.32 | 0-1 | 1 |
| | | 8 | 7 | 23.14 | 23.17 | 23.21 | 0-1 | 1 |
| | | 15 | 0 | 23.17 | 23.22 | 23.28 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 23.26 | 23.41 | 23.41 | 0-1 | 1 |
| | | 1 | 7 | 23.21 | 23.43 | 23.38 | 0-1 | 1 |
| | | 1 | 14 | 23.19 | 23.42 | 23.37 | 0-1 | 1 |
| | | 8 | 0 | 22.23 | 22.31 | 22.36 | 0-2 | 2 |
| | | 8 | 3 | 22.28 | 22.27 | 22.39 | 0-2 | 2 |
| | | 8 | 7 | 22.17 | 22.29 | 22.31 | 0-2 | 2 |
| | 64QAM | 15 | 0 | 22.16 | 22.27 | 22.36 | 0-2 | 2 |
| | | 1 | 0 | 21.72 | 22.10 | 22.56 | 0-2 | 2 |
| | | 1 | 7 | 21.73 | 22.13 | 22.52 | 0-2 | 2 |
| | | 1 | 14 | 21.93 | 22.14 | 22.46 | 0-2 | 2 |
| | | 8 | 0 | 20.81 | 21.38 | 21.30 | 0-3 | 3 |
| | | 8 | 3 | 20.86 | 21.38 | 21.40 | 0-3 | 3 |
| | | 8 | 7 | 20.92 | 21.34 | 21.28 | 0-3 | 3 |
| | | 15 | 0 | 20.68 | 21.27 | 21.34 | 0-3 | 3 |

LTE Band 66 _ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|-----------------------|---------------------------|----------|
| | | | | 131997 Ch. 1712.5 MHz | 132322Ch. 1745 MHz | 132647 Ch. 1777.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 24.09 | 24.11 | 24.27 | 0 | 0 |
| | | 1 | 12 | 24.17 | 24.20 | 24.28 | 0 | 0 |
| | | 1 | 24 | 24.02 | 24.05 | 24.14 | 0 | 0 |
| | | 12 | 0 | 23.21 | 23.27 | 23.32 | 0-1 | 1 |
| | | 12 | 6 | 23.21 | 23.27 | 23.36 | 0-1 | 1 |
| | | 12 | 11 | 23.14 | 23.22 | 23.29 | 0-1 | 1 |
| | 16QAM | 25 | 0 | 23.20 | 23.21 | 23.30 | 0-1 | 1 |
| | | 1 | 0 | 23.38 | 23.40 | 23.28 | 0-1 | 1 |
| | | 1 | 12 | 23.35 | 23.43 | 23.25 | 0-1 | 1 |
| | | 1 | 24 | 23.28 | 23.37 | 23.42 | 0-1 | 1 |
| | | 12 | 0 | 22.24 | 22.27 | 22.26 | 0-2 | 2 |
| | | 12 | 6 | 22.27 | 22.29 | 22.34 | 0-2 | 2 |
| | 64QAM | 12 | 11 | 22.21 | 22.30 | 22.23 | 0-2 | 2 |
| | | 25 | 0 | 22.25 | 22.22 | 22.30 | 0-2 | 2 |
| | | 1 | 0 | 21.76 | 22.41 | 22.35 | 0-2 | 2 |
| | | 1 | 12 | 21.89 | 22.47 | 22.44 | 0-2 | 2 |
| | | 1 | 24 | 22.22 | 22.37 | 22.44 | 0-2 | 2 |
| | | 12 | 0 | 20.76 | 21.33 | 21.36 | 0-3 | 3 |
| | 64QAM | 12 | 6 | 20.93 | 21.31 | 21.41 | 0-3 | 3 |
| | | 12 | 11 | 21.05 | 21.27 | 21.33 | 0-3 | 3 |
| | | 25 | 0 | 20.93 | 21.23 | 21.30 | 0-3 | 3 |

LTE Band 66 _ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|---------------------|---------------------------|----------|
| | | | | 132022 Ch. 1715 MHz | 132322 Ch. 1745 MHz | 132622 Ch. 1775 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 23.85 | 23.99 | 24.08 | 0 | 0 |
| | | 1 | 24 | 24.05 | 24.21 | 24.21 | 0 | 0 |
| | | 1 | 49 | 23.82 | 23.99 | 23.81 | 0 | 0 |
| | | 25 | 0 | 23.12 | 23.19 | 23.28 | 0-1 | 1 |
| | | 25 | 12 | 23.23 | 23.27 | 23.38 | 0-1 | 1 |
| | | 25 | 24 | 23.10 | 23.21 | 23.20 | 0-1 | 1 |
| | 16QAM | 50 | 0 | 23.14 | 23.18 | 23.31 | 0-1 | 1 |
| | | 1 | 0 | 23.10 | 23.14 | 23.09 | 0-1 | 1 |
| | | 1 | 24 | 23.37 | 23.41 | 23.30 | 0-1 | 1 |
| | | 1 | 49 | 23.11 | 23.12 | 22.97 | 0-1 | 1 |
| | | 25 | 0 | 22.19 | 22.20 | 22.29 | 0-2 | 2 |
| | | 25 | 12 | 22.29 | 22.24 | 22.38 | 0-2 | 2 |
| | 64QAM | 25 | 24 | 22.17 | 22.22 | 22.24 | 0-2 | 2 |
| | | 50 | 0 | 22.14 | 22.11 | 22.35 | 0-2 | 2 |
| | | 1 | 0 | 21.88 | 22.07 | 22.07 | 0-2 | 2 |
| | | 1 | 24 | 22.47 | 22.49 | 22.65 | 0-2 | 2 |
| | | 1 | 49 | 22.18 | 22.31 | 22.30 | 0-2 | 2 |
| | | 25 | 0 | 21.04 | 21.18 | 21.26 | 0-3 | 3 |
| | 64QAM | 25 | 12 | 21.31 | 21.26 | 21.38 | 0-3 | 3 |
| | | 25 | 24 | 21.18 | 21.24 | 21.22 | 0-3 | 3 |
| | | 25 | 0 | 21.18 | 21.24 | 21.34 | 0-3 | 3 |

LTE Band 66 _ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|-----------------------|---------------------------|----------|
| | | | | 132047 Ch. 1717.5 MHz | 132322 Ch. 1745 MHz | 132597 Ch. 1772.5 MHz | | |
| 15 MHz | QPSK | 1 | 0 | 24.06 | 24.11 | 24.38 | 0 | 0 |
| | | 1 | 36 | 24.07 | 24.17 | 24.26 | 0 | 0 |
| | | 1 | 74 | 23.92 | 23.96 | 23.99 | 0 | 0 |
| | | 36 | 0 | 23.20 | 23.24 | 23.32 | 0-1 | 1 |
| | | 36 | 18 | 23.22 | 23.21 | 23.36 | 0-1 | 1 |
| | | 36 | 39 | 23.07 | 23.23 | 23.20 | 0-1 | 1 |
| | 16QAM | 75 | 0 | 23.17 | 23.17 | 23.30 | 0-1 | 1 |
| | | 1 | 0 | 23.19 | 23.25 | 23.46 | 0-1 | 1 |
| | | 1 | 36 | 23.33 | 23.43 | 23.37 | 0-1 | 1 |
| | | 1 | 74 | 23.29 | 23.23 | 23.27 | 0-1 | 1 |
| | | 36 | 0 | 22.19 | 22.23 | 22.35 | 0-2 | 2 |
| | | 36 | 18 | 22.21 | 22.23 | 22.40 | 0-2 | 2 |
| | 64QAM | 36 | 39 | 22.08 | 22.22 | 22.24 | 0-2 | 2 |
| | | 75 | 0 | 22.20 | 22.22 | 22.36 | 0-2 | 2 |
| | | 1 | 0 | 21.87 | 21.86 | 21.73 | 0-2 | 2 |
| | | 1 | 36 | 22.42 | 22.34 | 22.18 | 0-2 | 2 |
| | | 1 | 74 | 22.22 | 22.14 | 22.00 | 0-2 | 2 |
| | | 36 | 0 | 21.15 | 21.28 | 21.42 | 0-3 | 3 |
| | | 36 | 18 | 21.27 | 21.28 | 21.46 | 0-3 | 3 |
| | | 36 | 39 | 21.13 | 21.27 | 21.31 | 0-3 | 3 |
| | | 75 | 0 | 21.19 | 21.21 | 21.36 | 0-3 | 3 |

LTE Band 66 _ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|---------------------|---------------------------|----------|
| | | | | 132072 Ch. 1720 MHz | 132322 Ch. 1745 MHz | 132572 Ch. 1770 MHz | | |
| 20 MHz | QPSK | 1 | 0 | 23.96 | 23.87 | 24.24 | 0 | 0 |
| | | 1 | 49 | 24.15 | 24.13 | 24.23 | 0 | 0 |
| | | 1 | 99 | 23.72 | 23.81 | 23.97 | 0 | 0 |
| | | 50 | 0 | 23.11 | 23.20 | 23.29 | 0-1 | 1 |
| | | 50 | 25 | 23.20 | 23.26 | 23.39 | 0-1 | 1 |
| | | 50 | 49 | 23.03 | 23.17 | 23.22 | 0-1 | 1 |
| | | 100 | 0 | 23.12 | 23.19 | 23.30 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 23.12 | 23.03 | 23.36 | 0-1 | 1 |
| | | 1 | 49 | 23.35 | 23.42 | 23.30 | 0-1 | 1 |
| | | 1 | 99 | 23.05 | 23.21 | 23.26 | 0-1 | 1 |
| | | 50 | 0 | 22.19 | 22.23 | 22.32 | 0-2 | 2 |
| | | 50 | 25 | 22.26 | 22.25 | 22.40 | 0-2 | 2 |
| | | 50 | 49 | 22.08 | 22.19 | 22.22 | 0-2 | 2 |
| | | 100 | 0 | 22.14 | 22.14 | 22.29 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 21.88 | 22.05 | 22.51 | 0-2 | 2 |
| | | 1 | 49 | 22.45 | 22.50 | 22.20 | 0-2 | 2 |
| | | 1 | 99 | 22.14 | 22.27 | 22.28 | 0-2 | 2 |
| | | 50 | 0 | 21.14 | 21.26 | 21.34 | 0-3 | 3 |
| | | 50 | 25 | 21.20 | 21.28 | 21.41 | 0-3 | 3 |
| | | 50 | 49 | 21.05 | 21.21 | 21.22 | 0-3 | 3 |
| | | 100 | 0 | 21.12 | 21.19 | 21.31 | 0-3 | 3 |

[LTE Band 71 Conducted Power DSI= 0, 1,2,3,4]

LTE Band 71_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 133147 Ch. 665.5 MHz | 133297 Ch. 680.5 MHz | 133447 Ch. 695.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 24.91 | 24.65 | 24.47 | 0 | 0 |
| | | 1 | 12 | 24.91 | 24.83 | 24.51 | 0 | 0 |
| | | 1 | 24 | 25.02 | 24.67 | 24.32 | 0 | 0 |
| | | 12 | 0 | 23.94 | 23.84 | 23.52 | 0-1 | 1 |
| | | 12 | 6 | 24.05 | 23.85 | 23.64 | 0-1 | 1 |
| | | 12 | 11 | 23.96 | 23.86 | 23.59 | 0-1 | 1 |
| | | 25 | 0 | 23.96 | 23.89 | 23.56 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 24.19 | 24.06 | 23.69 | 0-1 | 1 |
| | | 1 | 12 | 24.16 | 24.10 | 23.78 | 0-1 | 1 |
| | | 1 | 24 | 24.13 | 24.08 | 23.64 | 0-1 | 1 |
| | | 12 | 0 | 22.96 | 22.81 | 22.59 | 0-2 | 2 |
| | | 12 | 6 | 23.09 | 22.89 | 22.67 | 0-2 | 2 |
| | | 12 | 11 | 23.00 | 22.85 | 22.59 | 0-2 | 2 |
| | | 25 | 0 | 22.97 | 22.91 | 22.58 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 23.17 | 22.86 | 22.79 | 0-2 | 2 |
| | | 1 | 12 | 23.10 | 23.07 | 22.74 | 0-2 | 2 |
| | | 1 | 24 | 23.29 | 23.04 | 22.64 | 0-2 | 2 |
| | | 12 | 0 | 22.00 | 21.90 | 21.60 | 0-3 | 3 |
| | | 12 | 6 | 22.10 | 21.97 | 21.64 | 0-3 | 3 |
| | | 12 | 11 | 22.10 | 21.93 | 21.61 | 0-3 | 3 |
| | | 25 | 0 | 22.04 | 21.92 | 21.61 | 0-3 | 3 |

LTE Band 71_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|----------------------|--------------------|---------------------------|----------|
| | | | | 133172 Ch. 668 MHz | 133297 Ch. 680.5 MHz | 133422 Ch. 693 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 24.84 | 24.98 | 24.62 | 0 | 0 |
| | | 1 | 24 | 24.70 | 24.79 | 24.34 | 0 | 0 |
| | | 1 | 49 | 24.80 | 24.72 | 24.34 | 0 | 0 |
| | | 25 | 0 | 24.02 | 23.81 | 23.75 | 0-1 | 1 |
| | | 25 | 12 | 23.95 | 23.88 | 23.63 | 0-1 | 1 |
| | | 25 | 24 | 23.88 | 23.81 | 23.53 | 0-1 | 1 |
| | | 50 | 0 | 23.94 | 23.78 | 23.55 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 24.32 | 24.33 | 24.06 | 0-1 | 1 |
| | | 1 | 24 | 24.16 | 24.19 | 23.81 | 0-1 | 1 |
| | | 1 | 49 | 24.06 | 23.94 | 23.73 | 0-1 | 1 |
| | | 25 | 0 | 23.03 | 22.89 | 22.60 | 0-2 | 2 |
| | | 25 | 12 | 22.94 | 22.77 | 22.62 | 0-2 | 2 |
| | | 25 | 24 | 22.97 | 22.88 | 22.53 | 0-2 | 2 |
| | | 50 | 0 | 22.89 | 22.77 | 22.60 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 23.24 | 23.07 | 22.81 | 0-2 | 2 |
| | | 1 | 24 | 23.20 | 23.08 | 22.67 | 0-2 | 2 |
| | | 1 | 49 | 22.95 | 22.76 | 22.62 | 0-2 | 2 |
| | | 25 | 0 | 22.03 | 21.91 | 21.67 | 0-3 | 3 |
| | | 25 | 12 | 22.02 | 21.91 | 21.66 | 0-3 | 3 |
| | | 25 | 24 | 21.90 | 21.79 | 21.62 | 0-3 | 3 |
| | | 50 | 0 | 21.96 | 21.81 | 21.59 | 0-3 | 3 |

LTE Band 71 _ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|---------------------------|----------|
| | | | | 133297 Ch. 680.5 MHz | | |
| 15 MHz | QPSK | 1 | 0 | 24.80 | 0 | 0 |
| | | 1 | 36 | 24.60 | 0 | 0 |
| | | 1 | 74 | 24.70 | 0 | 0 |
| | | 36 | 0 | 23.86 | 0-1 | 1 |
| | | 36 | 18 | 23.89 | 0-1 | 1 |
| | | 36 | 39 | 23.76 | 0-1 | 1 |
| | | 75 | 0 | 23.76 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 24.23 | 0-1 | 1 |
| | | 1 | 36 | 24.10 | 0-1 | 1 |
| | | 1 | 74 | 23.86 | 0-1 | 1 |
| | | 36 | 0 | 22.89 | 0-2 | 2 |
| | | 36 | 18 | 22.87 | 0-2 | 2 |
| | | 36 | 39 | 22.75 | 0-2 | 2 |
| | | 75 | 0 | 22.81 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 23.08 | 0-2 | 2 |
| | | 1 | 36 | 23.02 | 0-2 | 2 |
| | | 1 | 74 | 22.67 | 0-2 | 2 |
| | | 36 | 0 | 21.95 | 0-3 | 3 |
| | | 36 | 18 | 21.92 | 0-3 | 3 |
| | | 36 | 39 | 21.80 | 0-3 | 3 |
| | | 75 | 0 | 21.79 | 0-3 | 3 |

LTE Band 71 _ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|---------------------------|----------|
| | | | | 133297 Ch. 680.5 MHz | | |
| 20 MHz | QPSK | 1 | 0 | 24.38 | 0 | 0 |
| | | 1 | 49 | 24.61 | 0 | 0 |
| | | 1 | 99 | 24.75 | 0 | 0 |
| | | 50 | 0 | 23.84 | 0-1 | 1 |
| | | 50 | 25 | 23.80 | 0-1 | 1 |
| | | 50 | 49 | 23.62 | 0-1 | 1 |
| | | 100 | 0 | 23.68 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 24.13 | 0-1 | 1 |
| | | 1 | 49 | 24.11 | 0-1 | 1 |
| | | 1 | 99 | 23.65 | 0-1 | 1 |
| | | 50 | 0 | 22.89 | 0-2 | 2 |
| | | 50 | 25 | 22.89 | 0-2 | 2 |
| | | 50 | 49 | 22.66 | 0-2 | 2 |
| | | 100 | 0 | 22.69 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 23.05 | 0-2 | 2 |
| | | 1 | 49 | 23.08 | 0-2 | 2 |
| | | 1 | 99 | 22.71 | 0-2 | 2 |
| | | 50 | 0 | 21.84 | 0-3 | 3 |
| | | 50 | 25 | 21.93 | 0-3 | 3 |
| | | 50 | 49 | 21.76 | 0-3 | 3 |
| | | 100 | 0 | 21.73 | 0-3 | 3 |

The EUT enables maximum power reduction in accordance with 3GPP 36.101. The MPR settings are configured during the manufacture process and are not configurable by the network, carrier, or end user.

11.4.2 LTE Reduced Conducted Power (Hotspot activated)

DSI = 3 PLimit Calculations - 4G Hotspot SAR

[LTE Band 2 Conducted Power]

LTE Band 2 _ 1.4 Mhz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 18607 Ch. 1850.7 MHz | 18900 Ch. 1880 MHz | 19193 Ch. 1909.3 MHz | | |
| 1.4 Mhz | QPSK | 1 | 0 | 17.59 | 17.38 | 17.54 | 0 | 0 |
| | | 1 | 3 | 17.60 | 17.41 | 17.55 | 0 | 0 |
| | | 1 | 5 | 17.54 | 17.31 | 17.48 | 0 | 0 |
| | | 3 | 0 | 17.51 | 17.46 | 17.54 | 0 | 0 |
| | | 3 | 1 | 17.55 | 17.48 | 17.58 | 0 | 0 |
| | | 3 | 3 | 17.52 | 17.38 | 17.51 | 0 | 0 |
| | | 6 | 0 | 17.58 | 17.54 | 17.65 | 0 | 0 |
| | 16QAM | 1 | 0 | 17.91 | 17.65 | 17.94 | 0 | 0 |
| | | 1 | 3 | 17.87 | 17.72 | 18.04 | 0 | 0 |
| | | 1 | 5 | 17.82 | 17.57 | 18.04 | 0 | 0 |
| | | 3 | 0 | 17.70 | 17.52 | 17.64 | 0 | 0 |
| | | 3 | 1 | 17.71 | 17.57 | 17.73 | 0 | 0 |
| | | 3 | 3 | 17.64 | 17.48 | 17.62 | 0 | 0 |
| | | 6 | 0 | 17.75 | 17.51 | 17.71 | 0 | 0 |
| | 64QAM | 1 | 0 | 17.94 | 17.78 | 17.84 | 0 | 0 |
| | | 1 | 3 | 17.95 | 17.83 | 17.85 | 0 | 0 |
| | | 1 | 5 | 17.88 | 17.76 | 17.80 | 0 | 0 |
| | | 3 | 0 | 17.84 | 17.66 | 17.91 | 0 | 0 |
| | | 3 | 1 | 17.86 | 17.70 | 17.93 | 0 | 0 |
| | | 3 | 3 | 17.79 | 17.63 | 17.85 | 0 | 0 |
| | | 6 | 0 | 17.65 | 17.52 | 17.66 | 0 | 0 |

LTE Band 2 _ 3 Mhz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 18615 Ch. 1851.5 MHz | 18900 Ch. 1880 MHz | 19185 Ch. 1908.5 MHz | | |
| 3 Mhz | QPSK | 1 | 0 | 17.55 | 17.51 | 17.68 | 0 | 0 |
| | | 1 | 7 | 17.56 | 17.51 | 17.65 | 0 | 0 |
| | | 1 | 14 | 17.52 | 17.43 | 17.63 | 0 | 0 |
| | | 8 | 0 | 17.76 | 17.55 | 17.76 | 0 | 0 |
| | | 8 | 3 | 17.75 | 17.63 | 17.79 | 0 | 0 |
| | | 8 | 7 | 17.69 | 17.57 | 17.72 | 0 | 0 |
| | | 15 | 0 | 17.72 | 17.63 | 17.72 | 0 | 0 |
| | 16QAM | 1 | 0 | 17.68 | 17.93 | 17.84 | 0 | 0 |
| | | 1 | 7 | 17.58 | 18.00 | 17.72 | 0 | 0 |
| | | 1 | 14 | 17.61 | 17.89 | 17.72 | 0 | 0 |
| | | 8 | 0 | 17.84 | 17.59 | 17.76 | 0 | 0 |
| | | 8 | 3 | 17.84 | 17.64 | 17.76 | 0 | 0 |
| | | 8 | 7 | 17.79 | 17.60 | 17.75 | 0 | 0 |
| | | 15 | 0 | 17.79 | 17.60 | 17.72 | 0 | 0 |
| | 64QAM | 1 | 0 | 17.98 | 17.83 | 18.00 | 0 | 0 |
| | | 1 | 7 | 17.85 | 17.84 | 17.97 | 0 | 0 |
| | | 1 | 14 | 17.75 | 17.75 | 17.94 | 0 | 0 |
| | | 8 | 0 | 17.77 | 17.57 | 17.81 | 0 | 0 |
| | | 8 | 3 | 17.80 | 17.63 | 17.81 | 0 | 0 |
| | | 8 | 7 | 17.69 | 17.55 | 17.75 | 0 | 0 |
| | | 15 | 0 | 17.74 | 17.65 | 17.66 | 0 | 0 |

LTE Band 2 _ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 18625 Ch. 1852.5 MHz | 18900 Ch. 1880 MHz | 19175 Ch. 1907.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 17.58 | 17.45 | 17.51 | 0 | 0 |
| | | 1 | 12 | 17.68 | 17.58 | 17.64 | 0 | 0 |
| | | 1 | 24 | 17.53 | 17.43 | 17.51 | 0 | 0 |
| | | 12 | 0 | 17.75 | 17.57 | 17.68 | 0 | 0 |
| | | 12 | 6 | 17.77 | 17.63 | 17.71 | 0 | 0 |
| | | 12 | 11 | 17.71 | 17.55 | 17.68 | 0 | 0 |
| | 16QAM | 25 | 0 | 17.71 | 17.57 | 17.64 | 0 | 0 |
| | | 1 | 0 | 18.15 | 17.73 | 17.73 | 0 | 0 |
| | | 1 | 12 | 18.09 | 17.78 | 17.85 | 0 | 0 |
| | | 1 | 24 | 18.02 | 17.68 | 17.80 | 0 | 0 |
| | | 12 | 0 | 17.74 | 17.54 | 17.71 | 0 | 0 |
| | | 12 | 6 | 17.72 | 17.60 | 17.75 | 0 | 0 |
| | 64QAM | 12 | 11 | 17.66 | 17.54 | 17.70 | 0 | 0 |
| | | 25 | 0 | 17.76 | 17.53 | 17.69 | 0 | 0 |
| | | 1 | 0 | 17.54 | 17.86 | 17.67 | 0 | 0 |
| | | 1 | 12 | 17.52 | 17.90 | 17.80 | 0 | 0 |
| | | 1 | 24 | 17.45 | 17.76 | 17.68 | 0 | 0 |
| | | 12 | 0 | 17.79 | 17.56 | 17.65 | 0 | 0 |
| | | 12 | 6 | 17.79 | 17.64 | 17.69 | 0 | 0 |
| | 12 | 11 | 17.71 | 17.56 | 17.69 | 0 | 0 | |
| | 25 | 0 | 17.77 | 17.55 | 17.64 | 0 | 0 | |

LTE Band 2 _ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|--------------------|--------------------|---------------------------|----------|
| | | | | 18650 Ch. 1855 MHz | 18900 Ch. 1880 MHz | 19150 Ch. 1905 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 17.29 | 17.11 | 17.56 | 0 | 0 |
| | | 1 | 24 | 17.53 | 17.40 | 17.62 | 0 | 0 |
| | | 1 | 49 | 17.26 | 17.11 | 17.64 | 0 | 0 |
| | | 25 | 0 | 17.67 | 17.47 | 17.52 | 0 | 0 |
| | | 25 | 12 | 17.77 | 17.62 | 17.69 | 0 | 0 |
| | | 25 | 24 | 17.63 | 17.49 | 17.63 | 0 | 0 |
| | | 50 | 0 | 17.64 | 17.54 | 17.60 | 0 | 0 |
| | 16QAM | 1 | 0 | 17.85 | 17.21 | 17.81 | 0 | 0 |
| | | 1 | 24 | 18.18 | 17.58 | 17.87 | 0 | 0 |
| | | 1 | 49 | 17.84 | 17.26 | 17.84 | 0 | 0 |
| | | 25 | 0 | 17.62 | 17.45 | 17.57 | 0 | 0 |
| | | 25 | 12 | 17.67 | 17.61 | 17.73 | 0 | 0 |
| | | 25 | 24 | 17.57 | 17.47 | 17.70 | 0 | 0 |
| | | 50 | 0 | 17.59 | 17.47 | 17.56 | 0 | 0 |
| | 64QAM | 1 | 0 | 17.57 | 17.22 | 17.86 | 0 | 0 |
| | | 1 | 24 | 17.84 | 17.59 | 17.91 | 0 | 0 |
| | | 1 | 49 | 17.54 | 17.28 | 17.95 | 0 | 0 |
| | | 25 | 0 | 17.63 | 17.47 | 17.46 | 0 | 0 |
| | | 25 | 12 | 17.74 | 17.63 | 17.65 | 0 | 0 |
| | | 25 | 24 | 17.62 | 17.51 | 17.52 | 0 | 0 |
| | | 50 | 0 | 17.62 | 17.51 | 17.63 | 0 | 0 |

LTE Band 2 _ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 18675 Ch. 1857.5 MHz | 18900 Ch. 1880 MHz | 19125 Ch. 1902.5 MHz | | |
| 15 MHz | QPSK | 1 | 0 | 17.42 | 17.35 | 17.35 | 0 | 0 |
| | | 1 | 36 | 17.46 | 17.33 | 17.49 | 0 | 0 |
| | | 1 | 74 | 17.27 | 17.25 | 17.55 | 0 | 0 |
| | | 36 | 0 | 17.59 | 17.35 | 17.39 | 0 | 0 |
| | | 36 | 18 | 17.60 | 17.41 | 17.49 | 0 | 0 |
| | | 36 | 39 | 17.56 | 17.47 | 17.59 | 0 | 0 |
| | | 75 | 0 | 17.59 | 17.47 | 17.44 | 0 | 0 |
| | 16QAM | 1 | 0 | 17.60 | 17.99 | 17.96 | 0 | 0 |
| | | 1 | 36 | 17.66 | 17.98 | 17.96 | 0 | 0 |
| | | 1 | 74 | 17.63 | 17.88 | 18.01 | 0 | 0 |
| | | 36 | 0 | 17.56 | 17.44 | 17.42 | 0 | 0 |
| | | 36 | 18 | 17.61 | 17.47 | 17.50 | 0 | 0 |
| | | 36 | 39 | 17.55 | 17.51 | 17.62 | 0 | 0 |
| | | 75 | 0 | 17.62 | 17.53 | 17.46 | 0 | 0 |
| | 64QAM | 1 | 0 | 17.71 | 17.38 | 17.74 | 0 | 0 |
| | | 1 | 36 | 17.81 | 17.47 | 17.80 | 0 | 0 |
| | | 1 | 74 | 17.69 | 17.43 | 17.83 | 0 | 0 |
| | | 36 | 0 | 17.63 | 17.39 | 17.47 | 0 | 0 |
| | | 36 | 18 | 17.65 | 17.42 | 17.54 | 0 | 0 |
| | | 36 | 39 | 17.62 | 17.49 | 17.63 | 0 | 0 |
| | | 75 | 0 | 17.58 | 17.49 | 17.51 | 0 | 0 |

LTE Band 2 _ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|--------------------|--------------------|---------------------------|----------|
| | | | | 18700 Ch. 1860 MHz | 18900 Ch. 1880 MHz | 19100 Ch. 1900 MHz | | |
| 20 MHz | QPSK | 1 | 0 | 17.47 | 17.40 | 17.38 | 0 | 0 |
| | | 1 | 49 | 17.41 | 17.37 | 17.44 | 0 | 0 |
| | | 1 | 99 | 17.26 | 17.26 | 17.54 | 0 | 0 |
| | | 50 | 0 | 17.55 | 17.37 | 17.36 | 0 | 0 |
| | | 50 | 25 | 17.60 | 17.49 | 17.44 | 0 | 0 |
| | | 50 | 49 | 17.51 | 17.44 | 17.54 | 0 | 0 |
| | | 100 | 0 | 17.53 | 17.43 | 17.41 | 0 | 0 |
| | 16QAM | 1 | 0 | 17.85 | 18.06 | 17.83 | 0 | 0 |
| | | 1 | 49 | 17.74 | 17.92 | 17.87 | 0 | 0 |
| | | 1 | 99 | 17.67 | 17.88 | 17.87 | 0 | 0 |
| | | 50 | 0 | 17.59 | 17.40 | 17.34 | 0 | 0 |
| | | 50 | 25 | 17.64 | 17.53 | 17.47 | 0 | 0 |
| | | 50 | 49 | 17.55 | 17.44 | 17.56 | 0 | 0 |
| | | 100 | 0 | 17.55 | 17.44 | 17.43 | 0 | 0 |
| | 64QAM | 1 | 0 | 17.71 | 17.63 | 17.70 | 0 | 0 |
| | | 1 | 49 | 17.58 | 17.57 | 17.74 | 0 | 0 |
| | | 1 | 99 | 17.51 | 17.54 | 17.81 | 0 | 0 |
| | | 50 | 0 | 17.56 | 17.37 | 17.35 | 0 | 0 |
| | | 50 | 25 | 17.63 | 17.48 | 17.46 | 0 | 0 |
| | | 50 | 49 | 17.54 | 17.42 | 17.55 | 0 | 0 |
| | | 100 | 0 | 17.53 | 17.40 | 17.40 | 0 | 0 |

[LTE Band 4 Conducted Power]

LTE Band 4 _ 1.4 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] | |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|---|
| | | | | 19957 Ch. 1710.7 MHz | 20175 Ch. 1732.5 MHz | 20393 Ch. 1754.3 MHz | | | |
| 1.4 MHz | QPSK | 1 | 0 | 17.81 | 17.87 | 18.01 | 0 | 0 | |
| | | 1 | 3 | 17.93 | 17.98 | 18.01 | 0 | 0 | |
| | | 1 | 5 | 17.86 | 17.91 | 17.93 | 0 | 0 | |
| | | 3 | 0 | 17.85 | 17.86 | 18.03 | 0 | 0 | |
| | | 3 | 1 | 17.87 | 18.01 | 18.08 | 0 | 0 | |
| | | 3 | 3 | 17.83 | 17.90 | 18.01 | 0 | 0 | |
| | 16QAM | 6 | 0 | 17.92 | 18.02 | 18.13 | 0 | 0 | |
| | | 1 | 0 | 18.04 | 18.09 | 18.18 | 0 | 0 | |
| | | 1 | 3 | 18.13 | 18.16 | 18.22 | 0 | 0 | |
| | | 1 | 5 | 17.99 | 18.10 | 18.16 | 0 | 0 | |
| | | 3 | 0 | 18.04 | 18.04 | 18.06 | 0 | 0 | |
| | | 3 | 1 | 18.06 | 18.11 | 18.05 | 0 | 0 | |
| | 64QAM | 3 | 3 | 17.98 | 18.07 | 17.99 | 0 | 0 | |
| | | 6 | 0 | 17.92 | 18.11 | 18.17 | 0 | 0 | |
| | | 1 | 0 | 18.21 | 18.17 | 18.18 | 0 | 0 | |
| | | 1 | 3 | 18.32 | 18.28 | 18.21 | 0 | 0 | |
| | | 1 | 5 | 18.25 | 18.23 | 18.15 | 0 | 0 | |
| | | 3 | 0 | 18.19 | 18.03 | 18.19 | 0 | 0 | |
| | 3 MHz | QPSK | 3 | 1 | 18.22 | 18.13 | 18.23 | 0 | 0 |
| | | | 3 | 3 | 18.18 | 18.07 | 18.18 | 0 | 0 |
| | | | 6 | 0 | 17.96 | 17.96 | 18.16 | 0 | 0 |
| 16QAM | | 1 | 0 | 17.91 | 17.98 | 18.11 | 0 | 0 | |
| | | 1 | 7 | 17.93 | 18.07 | 18.13 | 0 | 0 | |
| | | 1 | 14 | 17.85 | 18.00 | 18.05 | 0 | 0 | |
| | | 8 | 0 | 17.98 | 18.06 | 18.09 | 0 | 0 | |
| | | 8 | 3 | 18.03 | 18.03 | 18.22 | 0 | 0 | |
| | | 8 | 7 | 17.97 | 18.06 | 18.16 | 0 | 0 | |
| 64QAM | 15 | 0 | 17.99 | 18.03 | 18.18 | 0 | 0 | | |
| | 1 | 0 | 18.41 | 18.19 | 18.62 | 0 | 0 | | |
| | 1 | 7 | 18.45 | 18.27 | 18.51 | 0 | 0 | | |
| | 1 | 14 | 18.38 | 18.26 | 18.30 | 0 | 0 | | |
| | 8 | 0 | 18.05 | 17.99 | 18.20 | 0 | 0 | | |
| | 8 | 3 | 18.10 | 18.02 | 18.32 | 0 | 0 | | |
| 64QAM | 8 | 7 | 18.04 | 18.04 | 18.23 | 0 | 0 | | |
| | 15 | 0 | 18.06 | 18.04 | 18.19 | 0 | 0 | | |
| | 1 | 0 | 17.79 | 18.08 | 18.28 | 0 | 0 | | |
| | 1 | 7 | 17.84 | 18.12 | 18.25 | 0 | 0 | | |
| | 1 | 14 | 17.85 | 18.10 | 18.22 | 0 | 0 | | |
| | 8 | 0 | 18.09 | 18.05 | 18.12 | 0 | 0 | | |
| 64QAM | 8 | 3 | 18.20 | 18.06 | 18.20 | 0 | 0 | | |
| | 8 | 7 | 18.10 | 18.06 | 18.15 | 0 | 0 | | |
| | 8 | 7 | 18.10 | 18.06 | 18.15 | 0 | 0 | | |
| | 15 | 0 | 18.07 | 18.00 | 18.31 | 0 | 0 | | |

LTE Band 4 _ 3 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 19965 Ch. 1711.5 MHz | 20175 Ch. 1732.5 MHz | 20385 Ch. 1753.5 MHz | | |
| 3 MHz | QPSK | 1 | 0 | 17.91 | 17.98 | 18.11 | 0 | 0 |
| | | 1 | 7 | 17.93 | 18.07 | 18.13 | 0 | 0 |
| | | 1 | 14 | 17.85 | 18.00 | 18.05 | 0 | 0 |
| | | 8 | 0 | 17.98 | 18.06 | 18.09 | 0 | 0 |
| | | 8 | 3 | 18.03 | 18.03 | 18.22 | 0 | 0 |
| | | 8 | 7 | 17.97 | 18.06 | 18.16 | 0 | 0 |
| | 16QAM | 15 | 0 | 17.99 | 18.03 | 18.18 | 0 | 0 |
| | | 1 | 0 | 18.41 | 18.19 | 18.62 | 0 | 0 |
| | | 1 | 7 | 18.45 | 18.27 | 18.51 | 0 | 0 |
| | | 1 | 14 | 18.38 | 18.26 | 18.30 | 0 | 0 |
| | | 8 | 0 | 18.05 | 17.99 | 18.20 | 0 | 0 |
| | | 8 | 3 | 18.10 | 18.02 | 18.32 | 0 | 0 |
| | 64QAM | 8 | 7 | 18.04 | 18.04 | 18.23 | 0 | 0 |
| | | 15 | 0 | 18.06 | 18.04 | 18.19 | 0 | 0 |
| | | 1 | 0 | 17.79 | 18.08 | 18.28 | 0 | 0 |
| | | 1 | 7 | 17.84 | 18.12 | 18.25 | 0 | 0 |
| | | 1 | 14 | 17.85 | 18.10 | 18.22 | 0 | 0 |
| | | 8 | 0 | 18.09 | 18.05 | 18.12 | 0 | 0 |
| | 64QAM | 8 | 3 | 18.20 | 18.06 | 18.20 | 0 | 0 |
| | | 8 | 7 | 18.10 | 18.06 | 18.15 | 0 | 0 |
| | | 8 | 7 | 18.10 | 18.06 | 18.15 | 0 | 0 |
| 15 | | 0 | 18.07 | 18.00 | 18.31 | 0 | 0 | |

LTE Band 4 _ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 19975 Ch. 1712.5 MHz | 20175 Ch. 1732.5 MHz | 20375 Ch. 1752.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 17.79 | 17.95 | 17.96 | 0 | 0 |
| | | 1 | 12 | 17.90 | 18.06 | 18.07 | 0 | 0 |
| | | 1 | 24 | 17.73 | 17.91 | 17.89 | 0 | 0 |
| | | 12 | 0 | 17.98 | 18.03 | 18.13 | 0 | 0 |
| | | 12 | 6 | 18.06 | 18.03 | 18.17 | 0 | 0 |
| | | 12 | 11 | 18.01 | 18.05 | 18.16 | 0 | 0 |
| | 16QAM | 25 | 0 | 18.00 | 18.00 | 18.10 | 0 | 0 |
| | | 1 | 0 | 18.26 | 17.99 | 18.55 | 0 | 0 |
| | | 1 | 12 | 18.34 | 18.00 | 18.59 | 0 | 0 |
| | | 1 | 24 | 18.29 | 17.90 | 18.52 | 0 | 0 |
| | | 12 | 0 | 18.01 | 18.10 | 18.20 | 0 | 0 |
| | | 12 | 6 | 18.07 | 18.12 | 18.21 | 0 | 0 |
| | 64QAM | 12 | 11 | 18.02 | 18.08 | 18.25 | 0 | 0 |
| | | 25 | 0 | 17.97 | 17.99 | 18.19 | 0 | 0 |
| | | 1 | 0 | 18.19 | 18.28 | 18.36 | 0 | 0 |
| | | 1 | 12 | 18.24 | 18.36 | 18.47 | 0 | 0 |
| | | 1 | 24 | 18.10 | 18.25 | 18.30 | 0 | 0 |
| | | 12 | 0 | 18.01 | 18.16 | 18.23 | 0 | 0 |
| | | 12 | 6 | 18.08 | 18.19 | 18.29 | 0 | 0 |
| | 12 | 11 | 18.03 | 18.17 | 18.30 | 0 | 0 | |
| | 25 | 0 | 18.07 | 17.95 | 18.15 | 0 | 0 | |

LTE Band 4 _ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|----------------------|--------------------|---------------------------|----------|
| | | | | 20000 Ch. 1715 MHz | 20175 Ch. 1732.5 MHz | 20350 Ch. 1750 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 17.63 | 17.71 | 17.85 | 0 | 0 |
| | | 1 | 24 | 17.94 | 17.92 | 18.08 | 0 | 0 |
| | | 1 | 49 | 17.60 | 17.68 | 17.70 | 0 | 0 |
| | | 25 | 0 | 17.95 | 17.94 | 18.06 | 0 | 0 |
| | | 25 | 12 | 18.06 | 18.02 | 18.15 | 0 | 0 |
| | | 25 | 24 | 17.93 | 17.98 | 18.06 | 0 | 0 |
| | | 50 | 0 | 17.97 | 17.93 | 18.02 | 0 | 0 |
| | 16QAM | 1 | 0 | 17.82 | 18.27 | 18.05 | 0 | 0 |
| | | 1 | 24 | 18.14 | 18.56 | 18.34 | 0 | 0 |
| | | 1 | 49 | 17.74 | 18.26 | 18.00 | 0 | 0 |
| | | 25 | 0 | 17.91 | 17.97 | 17.98 | 0 | 0 |
| | | 25 | 12 | 18.06 | 18.04 | 18.05 | 0 | 0 |
| | | 25 | 24 | 17.88 | 18.04 | 17.98 | 0 | 0 |
| | | 50 | 0 | 17.90 | 17.97 | 17.98 | 0 | 0 |
| | 64QAM | 1 | 0 | 17.77 | 17.58 | 18.14 | 0 | 0 |
| | | 1 | 24 | 18.04 | 17.91 | 18.47 | 0 | 0 |
| | | 1 | 49 | 17.73 | 17.60 | 18.12 | 0 | 0 |
| | | 25 | 0 | 17.91 | 17.98 | 18.10 | 0 | 0 |
| | | 25 | 12 | 18.06 | 18.07 | 18.18 | 0 | 0 |
| | | 25 | 24 | 17.91 | 18.03 | 18.11 | 0 | 0 |
| | | 50 | 0 | 17.98 | 17.98 | 18.04 | 0 | 0 |

LTE Band 4 _ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 20025 Ch. 1717.5 MHz | 20175 Ch. 1732.5 MHz | 20325 Ch. 1747.5 MHz | | |
| 15 MHz | QPSK | 1 | 0 | 17.61 | 17.58 | 17.88 | 0 | 0 |
| | | 1 | 36 | 17.81 | 17.80 | 18.00 | 0 | 0 |
| | | 1 | 74 | 17.62 | 17.62 | 17.82 | 0 | 0 |
| | | 36 | 0 | 17.88 | 17.91 | 18.01 | 0 | 0 |
| | | 36 | 18 | 17.95 | 17.95 | 18.16 | 0 | 0 |
| | | 36 | 39 | 17.90 | 17.97 | 18.08 | 0 | 0 |
| | | 75 | 0 | 17.92 | 17.89 | 18.09 | 0 | 0 |
| | 16QAM | 1 | 0 | 17.98 | 18.15 | 18.06 | 0 | 0 |
| | | 1 | 36 | 18.10 | 18.29 | 18.26 | 0 | 0 |
| | | 1 | 74 | 17.97 | 18.18 | 18.19 | 0 | 0 |
| | | 36 | 0 | 17.88 | 17.93 | 17.95 | 0 | 0 |
| | | 36 | 18 | 17.99 | 17.93 | 18.09 | 0 | 0 |
| | | 36 | 39 | 17.86 | 17.98 | 18.03 | 0 | 0 |
| | | 75 | 0 | 17.96 | 17.93 | 18.07 | 0 | 0 |
| | 64QAM | 1 | 0 | 17.85 | 17.88 | 17.91 | 0 | 0 |
| | | 1 | 36 | 18.05 | 18.12 | 18.14 | 0 | 0 |
| | | 1 | 74 | 17.87 | 17.96 | 18.03 | 0 | 0 |
| | | 36 | 0 | 17.94 | 17.97 | 18.04 | 0 | 0 |
| | | 36 | 18 | 18.02 | 18.00 | 18.16 | 0 | 0 |
| | | 36 | 39 | 17.89 | 18.04 | 18.03 | 0 | 0 |
| | | 75 | 0 | 17.93 | 17.95 | 18.06 | 0 | 0 |

LTE Band 4 _ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|---------------------------|----------|
| | | | | 20175 Ch. 1732.5 MHz | | |
| 20 MHz | QPSK | 1 | 0 | 17.56 | 0 | 0 |
| | | 1 | 49 | 17.74 | 0 | 0 |
| | | 1 | 99 | 17.67 | 0 | 0 |
| | | 50 | 0 | 17.90 | 0 | 0 |
| | | 50 | 25 | 17.92 | 0 | 0 |
| | | 50 | 49 | 17.88 | 0 | 0 |
| | | 100 | 0 | 17.89 | 0 | 0 |
| | 16QAM | 1 | 0 | 17.96 | 0 | 0 |
| | | 1 | 49 | 18.13 | 0 | 0 |
| | | 1 | 99 | 17.77 | 0 | 0 |
| | | 50 | 0 | 17.91 | 0 | 0 |
| | | 50 | 25 | 17.95 | 0 | 0 |
| | | 50 | 49 | 17.93 | 0 | 0 |
| | | 100 | 0 | 17.88 | 0 | 0 |
| | 64QAM | 1 | 0 | 17.95 | 0 | 0 |
| | | 1 | 49 | 18.22 | 0 | 0 |
| | | 1 | 99 | 18.02 | 0 | 0 |
| | | 50 | 0 | 17.92 | 0 | 0 |
| | | 50 | 25 | 17.96 | 0 | 0 |
| | | 50 | 49 | 17.95 | 0 | 0 |
| | | 100 | 0 | 17.90 | 0 | 0 |

[LTE Band 7 Conducted Power]

LTE Band 7_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 20775 Ch. 2502.5 MHz | 21100 Ch. 2535 MHz | 21425 Ch. 2567.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 19.61 | 19.62 | 19.46 | 0 | 0 |
| | | 1 | 12 | 19.67 | 19.63 | 19.47 | 0 | 0 |
| | | 1 | 24 | 19.62 | 19.53 | 19.48 | 0 | 0 |
| | | 12 | 0 | 19.69 | 19.63 | 19.48 | 0 | 0 |
| | | 12 | 6 | 19.75 | 19.70 | 19.53 | 0 | 0 |
| | | 12 | 11 | 19.71 | 19.67 | 19.54 | 0 | 0 |
| | | 25 | 0 | 19.68 | 19.59 | 19.49 | 0 | 0 |
| | 16QAM | 1 | 0 | 19.93 | 19.93 | 19.82 | 0 | 0 |
| | | 1 | 12 | 19.91 | 19.95 | 19.79 | 0 | 0 |
| | | 1 | 24 | 19.93 | 19.89 | 19.78 | 0 | 0 |
| | | 12 | 0 | 19.71 | 19.68 | 19.48 | 0 | 0 |
| | | 12 | 6 | 19.77 | 19.72 | 19.54 | 0 | 0 |
| | | 12 | 11 | 19.71 | 19.69 | 19.50 | 0 | 0 |
| | | 25 | 0 | 19.72 | 19.64 | 19.46 | 0 | 0 |
| | 64QAM | 1 | 0 | 19.91 | 19.87 | 19.69 | 0 | 0 |
| | | 1 | 12 | 19.86 | 19.82 | 19.66 | 0 | 0 |
| | | 1 | 24 | 19.91 | 19.82 | 19.69 | 0 | 0 |
| | | 12 | 0 | 19.76 | 19.70 | 19.59 | 0 | 0 |
| | | 12 | 6 | 19.78 | 19.78 | 19.58 | 0 | 0 |
| | | 12 | 11 | 19.77 | 19.75 | 19.54 | 0 | 0 |
| | | 25 | 0 | 19.74 | 19.65 | 19.48 | 0 | 0 |

LTE Band 7_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|--------------------|--------------------|---------------------------|----------|
| | | | | 20800 Ch. 2505 MHz | 21100 Ch. 2535 MHz | 21400 Ch. 2565 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 19.65 | 19.59 | 19.41 | 0 | 0 |
| | | 1 | 24 | 19.62 | 19.59 | 19.39 | 0 | 0 |
| | | 1 | 49 | 19.61 | 19.54 | 19.46 | 0 | 0 |
| | | 25 | 0 | 19.73 | 19.69 | 19.53 | 0 | 0 |
| | | 25 | 12 | 19.74 | 19.71 | 19.56 | 0 | 0 |
| | | 25 | 24 | 19.62 | 19.63 | 19.54 | 0 | 0 |
| | | 50 | 0 | 19.59 | 19.55 | 19.46 | 0 | 0 |
| | 16QAM | 1 | 0 | 19.96 | 19.95 | 19.76 | 0 | 0 |
| | | 1 | 24 | 19.94 | 19.96 | 19.73 | 0 | 0 |
| | | 1 | 49 | 19.95 | 19.96 | 19.79 | 0 | 0 |
| | | 25 | 0 | 19.68 | 19.68 | 19.52 | 0 | 0 |
| | | 25 | 12 | 19.75 | 19.68 | 19.54 | 0 | 0 |
| | | 25 | 24 | 19.62 | 19.59 | 19.53 | 0 | 0 |
| | | 50 | 0 | 19.55 | 19.53 | 19.47 | 0 | 0 |
| | 64QAM | 1 | 0 | 19.89 | 19.84 | 19.73 | 0 | 0 |
| | | 1 | 24 | 19.87 | 19.86 | 19.68 | 0 | 0 |
| | | 1 | 49 | 19.78 | 19.81 | 19.70 | 0 | 0 |
| | | 25 | 0 | 19.71 | 19.70 | 19.54 | 0 | 0 |
| | | 25 | 12 | 19.78 | 19.74 | 19.60 | 0 | 0 |
| | | 25 | 24 | 19.65 | 19.65 | 19.55 | 0 | 0 |
| | | 50 | 0 | 19.57 | 19.57 | 19.49 | 0 | 0 |

LTE Band 7 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 20825 Ch. 2507.5 MHz | 21100 Ch. 2535 MHz | 21375 Ch. 2562.5 MHz | | |
| 15 MHz | QPSK | 1 | 0 | 19.52 | 19.54 | 19.32 | 0 | 0 |
| | | 1 | 36 | 19.52 | 19.50 | 19.39 | 0 | 0 |
| | | 1 | 74 | 19.55 | 19.42 | 19.40 | 0 | 0 |
| | | 36 | 0 | 19.66 | 19.62 | 19.51 | 0 | 0 |
| | | 36 | 18 | 19.61 | 19.58 | 19.49 | 0 | 0 |
| | | 36 | 39 | 19.58 | 19.57 | 19.43 | 0 | 0 |
| | | 75 | 0 | 19.55 | 19.50 | 19.47 | 0 | 0 |
| | 16QAM | 1 | 0 | 19.87 | 19.80 | 19.77 | 0 | 0 |
| | | 1 | 36 | 19.93 | 19.81 | 19.64 | 0 | 0 |
| | | 1 | 74 | 19.86 | 19.86 | 19.70 | 0 | 0 |
| | | 36 | 0 | 19.67 | 19.62 | 19.52 | 0 | 0 |
| | | 36 | 18 | 19.60 | 19.61 | 19.53 | 0 | 0 |
| | | 36 | 39 | 19.60 | 19.57 | 19.42 | 0 | 0 |
| | | 75 | 0 | 19.59 | 19.53 | 19.50 | 0 | 0 |
| | 64QAM | 1 | 0 | 19.77 | 19.76 | 19.59 | 0 | 0 |
| | | 1 | 36 | 19.81 | 19.76 | 19.61 | 0 | 0 |
| | | 1 | 74 | 19.76 | 19.69 | 19.56 | 0 | 0 |
| | | 36 | 0 | 19.72 | 19.68 | 19.58 | 0 | 0 |
| | | 36 | 18 | 19.61 | 19.62 | 19.54 | 0 | 0 |
| | | 36 | 39 | 19.65 | 19.63 | 19.44 | 0 | 0 |
| | | 75 | 0 | 19.56 | 19.56 | 19.46 | 0 | 0 |

LTE Band 7 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|--------------------|--------------------|---------------------------|----------|
| | | | | 20850 Ch. 2510 MHz | 21100 Ch. 2535 MHz | 21350 Ch. 2560 MHz | | |
| 20 MHz | QPSK | 1 | 0 | 19.53 | 19.50 | 19.38 | 0 | 0 |
| | | 1 | 49 | 19.52 | 19.46 | 19.30 | 0 | 0 |
| | | 1 | 99 | 19.54 | 19.44 | 19.40 | 0 | 0 |
| | | 50 | 0 | 19.61 | 19.63 | 19.52 | 0 | 0 |
| | | 50 | 25 | 19.67 | 19.55 | 19.51 | 0 | 0 |
| | | 50 | 49 | 19.58 | 19.53 | 19.42 | 0 | 0 |
| | | 100 | 0 | 19.58 | 19.46 | 19.45 | 0 | 0 |
| | 16QAM | 1 | 0 | 19.93 | 19.83 | 19.76 | 0 | 0 |
| | | 1 | 49 | 19.86 | 19.81 | 19.72 | 0 | 0 |
| | | 1 | 99 | 19.87 | 19.87 | 19.69 | 0 | 0 |
| | | 50 | 0 | 19.65 | 19.67 | 19.52 | 0 | 0 |
| | | 50 | 25 | 19.67 | 19.59 | 19.57 | 0 | 0 |
| | | 50 | 49 | 19.59 | 19.57 | 19.45 | 0 | 0 |
| | | 100 | 0 | 19.57 | 19.48 | 19.43 | 0 | 0 |
| | 64QAM | 1 | 0 | 19.82 | 19.76 | 19.66 | 0 | 0 |
| | | 1 | 49 | 19.80 | 19.75 | 19.67 | 0 | 0 |
| | | 1 | 99 | 19.74 | 19.65 | 19.55 | 0 | 0 |
| | | 50 | 0 | 19.68 | 19.68 | 19.55 | 0 | 0 |
| | | 50 | 25 | 19.72 | 19.62 | 19.57 | 0 | 0 |
| | | 50 | 49 | 19.60 | 19.59 | 19.47 | 0 | 0 |
| | | 100 | 0 | 19.60 | 19.50 | 19.46 | 0 | 0 |

[LTE Band 25 Conducted Power]

LTE Band 25_ 1.4 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] | |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|---|
| | | | | 26047 Ch. 1850.7 MHz | 26365 Ch. 1882.5 MHz | 26683 Ch. 1914.3 MHz | | | |
| 1.4 MHz | QPSK | 1 | 0 | 17.41 | 17.40 | 17.62 | 0 | 0 | |
| | | 1 | 3 | 17.47 | 17.49 | 17.65 | 0 | 0 | |
| | | 1 | 5 | 17.41 | 17.41 | 17.63 | 0 | 0 | |
| | | 3 | 0 | 17.46 | 17.43 | 17.59 | 0 | 0 | |
| | | 3 | 1 | 17.53 | 17.51 | 17.66 | 0 | 0 | |
| | | 3 | 3 | 17.49 | 17.43 | 17.57 | 0 | 0 | |
| | 16QAM | 1 | 0 | 17.55 | 17.64 | 17.70 | 0 | 0 | |
| | | 1 | 3 | 17.56 | 17.81 | 17.76 | 0 | 0 | |
| | | 1 | 5 | 17.57 | 17.83 | 17.71 | 0 | 0 | |
| | | 3 | 0 | 17.73 | 17.53 | 17.59 | 0 | 0 | |
| | | 3 | 1 | 17.70 | 17.58 | 17.65 | 0 | 0 | |
| | | 3 | 3 | 17.66 | 17.53 | 17.61 | 0 | 0 | |
| | 64QAM | 6 | 0 | 17.58 | 17.69 | 17.78 | 0 | 0 | |
| | | 1 | 0 | 17.87 | 17.73 | 17.94 | 0 | 0 | |
| | | 1 | 3 | 17.97 | 17.78 | 18.04 | 0 | 0 | |
| | | 1 | 5 | 17.83 | 17.74 | 17.97 | 0 | 0 | |
| | | 3 | 0 | 17.77 | 17.64 | 17.79 | 0 | 0 | |
| | | 3 | 1 | 17.73 | 17.71 | 17.79 | 0 | 0 | |
| | | | 3 | 3 | 17.69 | 17.68 | 17.80 | 0 | 0 |
| | | | 6 | 0 | 17.65 | 17.44 | 17.89 | 0 | 0 |

LTE Band 25_ 3 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 26055 Ch. 1851.5 MHz | 26365 Ch. 1882.5 MHz | 26675 Ch. 1913.5 MHz | | |
| 3 MHz | QPSK | 1 | 0 | 17.55 | 17.50 | 17.68 | 0 | 0 |
| | | 1 | 7 | 17.55 | 17.57 | 17.74 | 0 | 0 |
| | | 1 | 14 | 17.59 | 17.57 | 17.74 | 0 | 0 |
| | | 8 | 0 | 17.63 | 17.48 | 17.70 | 0 | 0 |
| | | 8 | 3 | 17.71 | 17.60 | 17.84 | 0 | 0 |
| | | 8 | 7 | 17.67 | 17.60 | 17.80 | 0 | 0 |
| | | 15 | 0 | 17.67 | 17.59 | 17.77 | 0 | 0 |
| | 16QAM | 1 | 0 | 18.18 | 17.65 | 17.85 | 0 | 0 |
| | | 1 | 7 | 18.09 | 17.71 | 17.91 | 0 | 0 |
| | | 1 | 14 | 18.20 | 17.84 | 17.97 | 0 | 0 |
| | | 8 | 0 | 17.70 | 17.49 | 17.76 | 0 | 0 |
| | | 8 | 3 | 17.76 | 17.54 | 17.90 | 0 | 0 |
| | | 8 | 7 | 17.75 | 17.61 | 17.89 | 0 | 0 |
| | | 15 | 0 | 17.77 | 17.52 | 17.78 | 0 | 0 |
| | 64QAM | 1 | 0 | 17.56 | 17.86 | 17.85 | 0 | 0 |
| | | 1 | 7 | 17.53 | 17.89 | 17.86 | 0 | 0 |
| | | 1 | 14 | 17.61 | 17.93 | 17.88 | 0 | 0 |
| | | 8 | 0 | 17.76 | 17.56 | 17.76 | 0 | 0 |
| | | 8 | 3 | 17.82 | 17.65 | 17.83 | 0 | 0 |
| | | 8 | 7 | 17.78 | 17.61 | 17.82 | 0 | 0 |
| | | 15 | 0 | 17.75 | 17.65 | 17.75 | 0 | 0 |

LTE Band 25 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 26065 Ch. 1852.5 MHz | 26365 Ch. 1882.5 MHz | 26665 Ch. 1912.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 17.50 | 17.35 | 17.62 | 0 | 0 |
| | | 1 | 12 | 17.58 | 17.42 | 17.77 | 0 | 0 |
| | | 1 | 24 | 17.53 | 17.41 | 17.75 | 0 | 0 |
| | | 12 | 0 | 17.66 | 17.52 | 17.74 | 0 | 0 |
| | | 12 | 6 | 17.72 | 17.63 | 17.81 | 0 | 0 |
| | | 12 | 11 | 17.72 | 17.60 | 17.80 | 0 | 0 |
| | | 25 | 0 | 17.70 | 17.60 | 17.80 | 0 | 0 |
| | 16QAM | 1 | 0 | 18.13 | 17.35 | 17.84 | 0 | 0 |
| | | 1 | 12 | 18.11 | 17.44 | 17.89 | 0 | 0 |
| | | 1 | 24 | 18.17 | 17.50 | 17.91 | 0 | 0 |
| | | 12 | 0 | 17.72 | 17.56 | 17.77 | 0 | 0 |
| | | 12 | 6 | 17.76 | 17.65 | 17.82 | 0 | 0 |
| | | 12 | 11 | 17.75 | 17.63 | 17.88 | 0 | 0 |
| | | 25 | 0 | 17.68 | 17.57 | 17.86 | 0 | 0 |
| | 64QAM | 1 | 0 | 17.82 | 17.50 | 17.94 | 0 | 0 |
| | | 1 | 12 | 17.83 | 17.59 | 18.03 | 0 | 0 |
| | | 1 | 24 | 17.88 | 17.59 | 18.01 | 0 | 0 |
| | | 12 | 0 | 17.69 | 17.48 | 17.79 | 0 | 0 |
| | | 12 | 6 | 17.75 | 17.57 | 17.87 | 0 | 0 |
| | | 12 | 11 | 17.72 | 17.57 | 17.94 | 0 | 0 |
| | | 25 | 0 | 17.71 | 17.58 | 17.77 | 0 | 0 |

LTE Band 25 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|----------------------|--------------------|---------------------------|----------|
| | | | | 26090 Ch. 1855 MHz | 26365 Ch. 1882.5 MHz | 26640 Ch. 1910 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 17.43 | 17.35 | 17.78 | 0 | 0 |
| | | 1 | 24 | 17.57 | 17.45 | 17.68 | 0 | 0 |
| | | 1 | 49 | 17.32 | 17.18 | 17.66 | 0 | 0 |
| | | 25 | 0 | 17.64 | 17.45 | 17.66 | 0 | 0 |
| | | 25 | 12 | 17.72 | 17.62 | 17.77 | 0 | 0 |
| | | 25 | 24 | 17.67 | 17.57 | 17.79 | 0 | 0 |
| | | 50 | 0 | 17.65 | 17.58 | 17.76 | 0 | 0 |
| | 16QAM | 1 | 0 | 17.64 | 17.86 | 18.31 | 0 | 0 |
| | | 1 | 24 | 17.89 | 18.03 | 18.28 | 0 | 0 |
| | | 1 | 49 | 17.62 | 17.76 | 18.21 | 0 | 0 |
| | | 25 | 0 | 17.59 | 17.49 | 17.64 | 0 | 0 |
| | | 25 | 12 | 17.67 | 17.66 | 17.75 | 0 | 0 |
| | | 25 | 24 | 17.61 | 17.58 | 17.83 | 0 | 0 |
| | | 50 | 0 | 17.65 | 17.57 | 17.70 | 0 | 0 |
| | 64QAM | 1 | 0 | 17.72 | 17.10 | 17.95 | 0 | 0 |
| | | 1 | 24 | 17.94 | 17.45 | 18.03 | 0 | 0 |
| | | 1 | 49 | 17.66 | 17.26 | 18.05 | 0 | 0 |
| | | 25 | 0 | 17.62 | 17.50 | 17.69 | 0 | 0 |
| | | 25 | 12 | 17.71 | 17.69 | 17.81 | 0 | 0 |
| | | 25 | 24 | 17.65 | 17.61 | 17.79 | 0 | 0 |
| | | 50 | 0 | 17.71 | 17.57 | 17.76 | 0 | 0 |

LTE Band 25 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 26115 Ch. 1857.5 MHz | 26365 Ch. 1882.5 MHz | 26615 Ch. 1907.5 MHz | | |
| 15 MHz | QPSK | 1 | 0 | 17.41 | 17.58 | 17.59 | 0 | 0 |
| | | 1 | 36 | 17.58 | 17.49 | 17.61 | 0 | 0 |
| | | 1 | 74 | 17.41 | 17.36 | 17.56 | 0 | 0 |
| | | 36 | 0 | 17.66 | 17.46 | 17.56 | 0 | 0 |
| | | 36 | 18 | 17.73 | 17.53 | 17.69 | 0 | 0 |
| | | 36 | 39 | 17.65 | 17.57 | 17.76 | 0 | 0 |
| | | 75 | 0 | 17.65 | 17.57 | 17.63 | 0 | 0 |
| | 16QAM | 1 | 0 | 17.69 | 17.79 | 17.68 | 0 | 0 |
| | | 1 | 36 | 17.88 | 17.77 | 17.70 | 0 | 0 |
| | | 1 | 74 | 17.71 | 17.74 | 17.83 | 0 | 0 |
| | | 36 | 0 | 17.65 | 17.46 | 17.60 | 0 | 0 |
| | | 36 | 18 | 17.72 | 17.51 | 17.72 | 0 | 0 |
| | | 36 | 39 | 17.66 | 17.53 | 17.78 | 0 | 0 |
| | | 75 | 0 | 17.67 | 17.56 | 17.65 | 0 | 0 |
| | 64QAM | 1 | 0 | 17.56 | 17.83 | 17.66 | 0 | 0 |
| | | 1 | 36 | 17.76 | 17.82 | 17.77 | 0 | 0 |
| | | 1 | 74 | 17.61 | 17.79 | 17.78 | 0 | 0 |
| | | 36 | 0 | 17.71 | 17.50 | 17.61 | 0 | 0 |
| | | 36 | 18 | 17.78 | 17.57 | 17.69 | 0 | 0 |
| | | 36 | 39 | 17.72 | 17.62 | 17.76 | 0 | 0 |
| | | 75 | 0 | 17.63 | 17.56 | 17.68 | 0 | 0 |

LTE Band 25 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|----------------------|--------------------|---------------------------|----------|
| | | | | 26140 Ch. 1860 MHz | 26365 Ch. 1882.5 MHz | 26590 Ch. 1905 MHz | | |
| 20 MHz | QPSK | 1 | 0 | 17.66 | 17.43 | 17.44 | 0 | 0 |
| | | 1 | 49 | 17.53 | 17.46 | 17.63 | 0 | 0 |
| | | 1 | 99 | 17.38 | 17.34 | 17.67 | 0 | 0 |
| | | 50 | 0 | 17.76 | 17.60 | 17.62 | 0 | 0 |
| | | 50 | 25 | 17.68 | 17.59 | 17.66 | 0 | 0 |
| | | 50 | 49 | 17.63 | 17.58 | 17.80 | 0 | 0 |
| | | 100 | 0 | 17.62 | 17.52 | 17.57 | 0 | 0 |
| | 16QAM | 1 | 0 | 18.22 | 17.96 | 18.15 | 0 | 0 |
| | | 1 | 49 | 18.13 | 17.81 | 18.15 | 0 | 0 |
| | | 1 | 99 | 18.04 | 17.81 | 18.21 | 0 | 0 |
| | | 50 | 0 | 17.74 | 17.66 | 17.68 | 0 | 0 |
| | | 50 | 25 | 17.71 | 17.64 | 17.71 | 0 | 0 |
| | | 50 | 49 | 17.63 | 17.62 | 17.79 | 0 | 0 |
| | | 100 | 0 | 17.59 | 17.54 | 17.61 | 0 | 0 |
| | 64QAM | 1 | 0 | 17.99 | 17.68 | 17.67 | 0 | 0 |
| | | 1 | 49 | 17.72 | 17.58 | 17.77 | 0 | 0 |
| | | 1 | 99 | 17.41 | 17.66 | 17.83 | 0 | 0 |
| | | 50 | 0 | 17.83 | 17.60 | 17.67 | 0 | 0 |
| | | 50 | 25 | 17.76 | 17.62 | 17.69 | 0 | 0 |
| | | 50 | 49 | 17.72 | 17.63 | 17.80 | 0 | 0 |
| | | 100 | 0 | 17.62 | 17.54 | 17.60 | 0 | 0 |

[LTE Band 30 Conducted Power]

LTE Band 30_5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 27685 Ch. 2307.5 MHz | 27710 Ch. 2310 MHz | 27735 Ch. 2312.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 19.52 | 19.30 | 19.38 | 0 | 0 |
| | | 1 | 12 | 19.54 | 19.44 | 19.48 | 0 | 0 |
| | | 1 | 24 | 19.39 | 19.25 | 19.26 | 0 | 0 |
| | | 12 | 0 | 19.49 | 19.49 | 19.46 | 0 | 0 |
| | | 12 | 6 | 19.54 | 19.46 | 19.54 | 0 | 0 |
| | | 12 | 11 | 19.51 | 19.42 | 19.50 | 0 | 0 |
| | | 25 | 0 | 19.47 | 19.40 | 19.47 | 0 | 0 |
| | 16QAM | 1 | 0 | 19.66 | 19.67 | 19.69 | 0 | 0 |
| | | 1 | 12 | 19.68 | 19.79 | 19.78 | 0 | 0 |
| | | 1 | 24 | 19.66 | 19.62 | 19.62 | 0 | 0 |
| | | 12 | 0 | 19.52 | 19.52 | 19.52 | 0 | 0 |
| | | 12 | 6 | 19.60 | 19.50 | 19.56 | 0 | 0 |
| | | 12 | 11 | 19.56 | 19.47 | 19.54 | 0 | 0 |
| | | 25 | 0 | 19.50 | 19.48 | 19.51 | 0 | 0 |
| | 64QAM | 1 | 0 | 19.56 | 19.65 | 19.74 | 0 | 0 |
| | | 1 | 12 | 19.70 | 19.75 | 19.77 | 0 | 0 |
| | | 1 | 24 | 19.72 | 19.66 | 19.54 | 0 | 0 |
| | | 12 | 0 | 19.17 | 19.15 | 19.17 | 0 | 0 |
| | | 12 | 6 | 19.19 | 19.18 | 19.20 | 0 | 0 |
| | | 12 | 11 | 19.19 | 19.13 | 19.15 | 0 | 0 |
| | | 25 | 0 | 19.15 | 19.08 | 19.11 | 0 | 0 |

LTE Band 30_10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|---------------------------|----------|
| | | | | 27710 Ch. 2310 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 19.37 | 0 | 0 |
| | | 1 | 24 | 19.42 | 0 | 0 |
| | | 1 | 49 | 19.38 | 0 | 0 |
| | | 25 | 0 | 19.45 | 0 | 0 |
| | | 25 | 12 | 19.43 | 0 | 0 |
| | | 25 | 24 | 19.36 | 0 | 0 |
| | | 50 | 0 | 19.38 | 0 | 0 |
| | 16QAM | 1 | 0 | 19.81 | 0 | 0 |
| | | 1 | 24 | 19.78 | 0 | 0 |
| | | 1 | 49 | 19.73 | 0 | 0 |
| | | 25 | 0 | 19.47 | 0 | 0 |
| | | 25 | 12 | 19.45 | 0 | 0 |
| | | 25 | 24 | 19.37 | 0 | 0 |
| | | 50 | 0 | 19.39 | 0 | 0 |
| | 64QAM | 1 | 0 | 19.76 | 0 | 0 |
| | | 1 | 24 | 19.68 | 0 | 0 |
| | | 1 | 49 | 19.63 | 0 | 0 |
| | | 25 | 0 | 19.09 | 0 | 0 |
| | | 25 | 12 | 19.08 | 0 | 0 |
| | | 25 | 24 | 19.05 | 0 | 0 |
| | | 50 | 0 | 19.03 | 0 | 0 |

[LTE TDD Band 38 Conducted Power]

LTE Band 38_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 3775 Ch. 2572.5 MHz | 38000 Ch. 2595 MHz | 38225 Ch. 2617.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 22.47 | 22.35 | 22.33 | 0 | 0 |
| | | 1 | 12 | 22.51 | 22.46 | 22.39 | 0 | 0 |
| | | 1 | 24 | 22.46 | 22.41 | 22.36 | 0 | 0 |
| | | 12 | 0 | 22.07 | 21.91 | 21.97 | 0-1 | 1 |
| | | 12 | 6 | 22.09 | 22.00 | 22.06 | 0-1 | 1 |
| | | 12 | 11 | 22.05 | 22.00 | 22.05 | 0-1 | 1 |
| | | 25 | 0 | 22.05 | 21.96 | 22.02 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.05 | 21.95 | 21.97 | 0-1 | 1 |
| | | 1 | 12 | 22.16 | 22.14 | 22.12 | 0-1 | 1 |
| | | 1 | 24 | 22.08 | 22.02 | 22.03 | 0-1 | 1 |
| | | 12 | 0 | 21.01 | 20.92 | 21.01 | 0-2 | 2 |
| | | 12 | 6 | 21.11 | 20.95 | 21.06 | 0-2 | 2 |
| | | 12 | 11 | 21.08 | 21.01 | 21.04 | 0-2 | 2 |
| | | 25 | 0 | 21.12 | 20.96 | 21.06 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 20.81 | 20.71 | 20.77 | 0-2 | 2 |
| | | 1 | 12 | 20.85 | 20.79 | 20.84 | 0-2 | 2 |
| | | 1 | 24 | 20.80 | 20.76 | 20.83 | 0-2 | 2 |
| | | 12 | 0 | 20.11 | 20.00 | 20.06 | 0-3 | 3 |
| | | 12 | 6 | 20.13 | 20.03 | 20.11 | 0-3 | 3 |
| | | 12 | 11 | 20.09 | 20.09 | 20.10 | 0-3 | 3 |
| | | 25 | 0 | 20.12 | 20.02 | 20.11 | 0-3 | 3 |

LTE Band 38_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|--------------------|---------------------------|----------|
| | | | | 37800 Ch. 2575 MHz | 38000 Ch. 2595 MHz | 38200 Ch. 2615 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 22.22 | 22.45 | 22.54 | 0 | 0 |
| | | 1 | 24 | 22.41 | 22.42 | 22.43 | 0 | 0 |
| | | 1 | 49 | 22.27 | 22.44 | 22.50 | 0 | 0 |
| | | 25 | 0 | 21.96 | 21.85 | 21.85 | 0-1 | 1 |
| | | 25 | 12 | 22.07 | 21.93 | 22.02 | 0-1 | 1 |
| | | 25 | 24 | 22.01 | 21.95 | 21.97 | 0-1 | 1 |
| | | 50 | 0 | 21.99 | 21.85 | 21.98 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 21.79 | 22.09 | 22.08 | 0-1 | 1 |
| | | 1 | 24 | 22.03 | 22.06 | 22.07 | 0-1 | 1 |
| | | 1 | 49 | 21.78 | 22.03 | 22.02 | 0-1 | 1 |
| | | 25 | 0 | 20.96 | 20.85 | 20.89 | 0-2 | 2 |
| | | 25 | 12 | 21.07 | 20.96 | 21.08 | 0-2 | 2 |
| | | 25 | 24 | 21.01 | 20.97 | 20.98 | 0-2 | 2 |
| | | 50 | 0 | 21.02 | 20.88 | 21.04 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 20.68 | 20.86 | 20.84 | 0-2 | 2 |
| | | 1 | 24 | 20.91 | 20.85 | 20.85 | 0-2 | 2 |
| | | 1 | 49 | 20.61 | 20.87 | 20.92 | 0-2 | 2 |
| | | 25 | 0 | 20.04 | 19.92 | 19.93 | 0-3 | 3 |
| | | 25 | 12 | 20.15 | 20.06 | 20.13 | 0-3 | 3 |
| | | 25 | 24 | 20.09 | 20.04 | 20.05 | 0-3 | 3 |
| | | 50 | 0 | 20.05 | 19.91 | 20.02 | 0-3 | 3 |

LTE Band 38 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 37825 Ch. 2507.5 MHz | 38000 Ch. 2595 MHz | 38175 Ch. 2612.5 MHz | | |
| 15 MHz | QPSK | 1 | 0 | 22.52 | 22.44 | 22.51 | 0 | 0 |
| | | 1 | 36 | 22.46 | 22.47 | 22.46 | 0 | 0 |
| | | 1 | 74 | 22.46 | 22.45 | 22.46 | 0 | 0 |
| | | 36 | 0 | 22.02 | 21.88 | 21.90 | 0-1 | 1 |
| | | 36 | 18 | 22.02 | 21.96 | 21.99 | 0-1 | 1 |
| | | 36 | 39 | 21.91 | 21.95 | 21.97 | 0-1 | 1 |
| | | 75 | 0 | 21.93 | 21.87 | 21.91 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.16 | 22.09 | 22.05 | 0-1 | 1 |
| | | 1 | 36 | 22.07 | 22.03 | 22.05 | 0-1 | 1 |
| | | 1 | 74 | 22.03 | 22.08 | 22.10 | 0-1 | 1 |
| | | 36 | 0 | 20.96 | 20.85 | 20.86 | 0-2 | 2 |
| | | 36 | 18 | 20.96 | 20.91 | 20.96 | 0-2 | 2 |
| | | 36 | 39 | 20.89 | 20.95 | 20.96 | 0-2 | 2 |
| | | 75 | 0 | 20.93 | 20.90 | 20.93 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 20.89 | 20.74 | 20.76 | 0-2 | 2 |
| | | 1 | 36 | 20.87 | 20.80 | 20.85 | 0-2 | 2 |
| | | 1 | 74 | 20.70 | 20.80 | 20.87 | 0-2 | 2 |
| | | 36 | 0 | 20.02 | 19.92 | 19.92 | 0-3 | 3 |
| | | 36 | 18 | 20.02 | 19.98 | 20.02 | 0-3 | 3 |
| | | 36 | 39 | 19.93 | 20.00 | 20.00 | 0-3 | 3 |
| | | 75 | 0 | 19.93 | 19.90 | 19.93 | 0-3 | 3 |

LTE Band 38 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------------|----------|
| | | | | 38000 Ch. 2595 MHz | | |
| 20 MHz | QPSK | 1 | 0 | 22.42 | 0 | 0 |
| | | 1 | 49 | 22.41 | 0 | 0 |
| | | 1 | 99 | 22.40 | 0 | 0 |
| | | 50 | 0 | 21.84 | 0-1 | 1 |
| | | 50 | 25 | 21.95 | 0-1 | 1 |
| | | 50 | 49 | 21.93 | 0-1 | 1 |
| | | 100 | 0 | 21.83 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.11 | 0-1 | 1 |
| | | 1 | 49 | 22.07 | 0-1 | 1 |
| | | 1 | 99 | 22.05 | 0-1 | 1 |
| | | 50 | 0 | 20.88 | 0-2 | 2 |
| | | 50 | 25 | 20.99 | 0-2 | 2 |
| | | 50 | 49 | 20.96 | 0-2 | 2 |
| | | 100 | 0 | 20.86 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 20.87 | 0-2 | 2 |
| | | 1 | 49 | 20.79 | 0-2 | 2 |
| | | 1 | 99 | 20.84 | 0-2 | 2 |
| | | 50 | 0 | 19.90 | 0-3 | 3 |
| | | 50 | 25 | 20.00 | 0-3 | 3 |
| | | 50 | 49 | 19.97 | 0-3 | 3 |
| | | 100 | 0 | 19.88 | 0-3 | 3 |

[LTE Band 41 Conducted Power] - Power Class 3

LTE Band 41 _ 5 MHz Bandwidth - Power Class 3

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | | | MPR Allowed Per GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------|----------|
| | | | | 39675 Ch. 2498.5 MHz | 40148 Ch. 2545.8 MHz | 40620 Ch. 2593.0 MHz | 41093 Ch. 2640.3 MHz | 41565 Ch. 2687.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 22.60 | 22.49 | 22.36 | 22.20 | 22.37 | 0 | 0 |
| | | 1 | 12 | 22.54 | 22.47 | 22.36 | 22.24 | 22.36 | 0 | 0 |
| | | 1 | 24 | 22.55 | 22.45 | 22.31 | 22.22 | 22.31 | 0 | 0 |
| | | 12 | 0 | 22.65 | 22.60 | 22.44 | 22.34 | 22.40 | 0-1 | 1 |
| | | 12 | 6 | 22.64 | 22.66 | 22.44 | 22.38 | 22.43 | 0-1 | 1 |
| | | 12 | 11 | 22.66 | 22.64 | 22.41 | 22.38 | 22.39 | 0-1 | 1 |
| | | 25 | 0 | 22.60 | 22.58 | 22.38 | 22.34 | 22.44 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.69 | 22.63 | 22.48 | 22.39 | 22.44 | 0-1 | 1 |
| | | 1 | 12 | 22.74 | 22.75 | 22.53 | 22.53 | 22.55 | 0-1 | 1 |
| | | 1 | 24 | 22.75 | 22.64 | 22.49 | 22.44 | 22.46 | 0-1 | 1 |
| | | 12 | 0 | 21.65 | 21.60 | 21.41 | 21.32 | 21.43 | 0-2 | 2 |
| | | 12 | 6 | 21.63 | 21.61 | 21.39 | 21.31 | 21.46 | 0-2 | 2 |
| | | 12 | 11 | 21.61 | 21.59 | 21.39 | 21.35 | 21.42 | 0-2 | 2 |
| | | 25 | 0 | 21.67 | 21.66 | 21.46 | 21.36 | 21.47 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 21.44 | 21.35 | 21.14 | 21.07 | 21.21 | 0-2 | 2 |
| | | 1 | 12 | 21.41 | 21.41 | 21.13 | 21.14 | 21.24 | 0-2 | 2 |
| | | 1 | 24 | 21.41 | 21.38 | 21.13 | 21.12 | 21.20 | 0-2 | 2 |
| | | 12 | 0 | 20.70 | 20.68 | 20.47 | 20.37 | 20.51 | 0-3 | 3 |
| | | 12 | 6 | 20.68 | 20.69 | 20.51 | 20.40 | 20.51 | 0-3 | 3 |
| | | 12 | 11 | 20.71 | 20.66 | 20.48 | 20.46 | 20.50 | 0-3 | 3 |
| | | 25 | 0 | 20.66 | 20.69 | 20.49 | 20.40 | 20.48 | 0-3 | 3 |

LTE Band 41 _ 10 MHz Bandwidth - Power Class 3

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------------|----------|
| | | | | 39700 Ch. 2501 MHz | 40160 Ch. 2547 MHz | 40620 Ch. 2593 MHz | 41080 Ch. 2639 MHz | 41540 Ch. 2685 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 22.64 | 22.33 | 22.18 | 22.13 | 22.14 | 0 | 0 |
| | | 1 | 24 | 22.66 | 22.46 | 22.32 | 22.41 | 22.42 | 0 | 0 |
| | | 1 | 49 | 22.67 | 22.30 | 22.12 | 22.08 | 22.12 | 0 | 0 |
| | | 25 | 0 | 22.63 | 22.55 | 22.36 | 22.25 | 22.25 | 0-1 | 1 |
| | | 25 | 12 | 22.69 | 22.60 | 22.47 | 22.39 | 22.37 | 0-1 | 1 |
| | | 25 | 24 | 22.65 | 22.50 | 22.33 | 22.31 | 22.31 | 0-1 | 1 |
| | | 50 | 0 | 22.61 | 22.54 | 22.34 | 22.33 | 22.26 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.64 | 22.42 | 22.23 | 22.20 | 22.23 | 0-1 | 1 |
| | | 1 | 24 | 22.67 | 22.66 | 22.45 | 22.44 | 22.49 | 0-1 | 1 |
| | | 1 | 49 | 22.64 | 22.39 | 22.16 | 22.13 | 22.19 | 0-1 | 1 |
| | | 25 | 0 | 21.64 | 21.55 | 21.35 | 21.24 | 21.27 | 0-2 | 2 |
| | | 25 | 12 | 21.71 | 21.68 | 21.45 | 21.43 | 21.34 | 0-2 | 2 |
| | | 25 | 24 | 21.61 | 21.53 | 21.34 | 21.31 | 21.35 | 0-2 | 2 |
| | | 50 | 0 | 21.67 | 21.58 | 21.34 | 21.36 | 21.28 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 21.34 | 21.05 | 20.85 | 20.72 | 20.86 | 0-2 | 2 |
| | | 1 | 24 | 21.34 | 21.28 | 21.15 | 21.08 | 21.16 | 0-2 | 2 |
| | | 1 | 49 | 21.33 | 21.00 | 20.83 | 20.83 | 20.90 | 0-2 | 2 |
| | | 25 | 0 | 20.73 | 20.60 | 20.42 | 20.29 | 20.35 | 0-3 | 3 |
| | | 25 | 12 | 20.72 | 20.74 | 20.51 | 20.45 | 20.44 | 0-3 | 3 |
| | | 25 | 24 | 20.72 | 20.64 | 20.37 | 20.39 | 20.42 | 0-3 | 3 |
| | | 50 | 0 | 20.64 | 20.55 | 20.36 | 20.33 | 20.31 | 0-3 | 3 |

LTE Band 41 _ 15 MHz Bandwidth - Power Class 3

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 39725 Ch. 2503.5 MHz | 40173 Ch. 2548.3 MHz | 40620 Ch. 2593.0 MHz | 41068 Ch. 2637.8 MHz | 41515 Ch. 2682.5 MHz | | |
| 15 MHz | QPSK | 1 | 0 | 22.57 | 22.33 | 22.07 | 22.08 | 21.98 | 0 | 0 |
| | | 1 | 36 | 22.52 | 22.46 | 22.22 | 22.20 | 22.23 | 0 | 0 |
| | | 1 | 74 | 22.54 | 22.21 | 22.09 | 21.97 | 22.21 | 0 | 0 |
| | | 36 | 0 | 22.60 | 22.49 | 22.28 | 22.26 | 22.19 | 0-1 | 1 |
| | | 36 | 18 | 22.62 | 22.56 | 22.37 | 22.38 | 22.39 | 0-1 | 1 |
| | | 36 | 39 | 22.57 | 22.36 | 22.32 | 22.26 | 22.37 | 0-1 | 1 |
| | | 75 | 0 | 22.56 | 22.37 | 22.32 | 22.32 | 22.34 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.57 | 22.40 | 22.23 | 22.25 | 22.13 | 0-1 | 1 |
| | | 1 | 36 | 22.58 | 22.52 | 22.33 | 22.34 | 22.35 | 0-1 | 1 |
| | | 1 | 74 | 22.61 | 22.30 | 22.23 | 22.16 | 22.37 | 0-1 | 1 |
| | | 36 | 0 | 21.55 | 21.47 | 21.26 | 21.23 | 21.17 | 0-2 | 2 |
| | | 36 | 18 | 21.58 | 21.48 | 21.33 | 21.32 | 21.36 | 0-2 | 2 |
| | | 36 | 39 | 21.53 | 21.32 | 21.31 | 21.24 | 21.36 | 0-2 | 2 |
| | | 75 | 0 | 21.59 | 21.42 | 21.35 | 21.32 | 21.35 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 21.32 | 21.13 | 20.91 | 20.94 | 20.84 | 0-2 | 2 |
| | | 1 | 36 | 21.31 | 21.29 | 21.11 | 21.11 | 21.13 | 0-2 | 2 |
| | | 1 | 74 | 21.34 | 20.97 | 20.93 | 20.88 | 21.11 | 0-2 | 2 |
| | | 36 | 0 | 20.62 | 20.51 | 20.34 | 20.28 | 20.23 | 0-3 | 3 |
| | | 36 | 18 | 20.63 | 20.55 | 20.42 | 20.37 | 20.41 | 0-3 | 3 |
| | | 36 | 39 | 20.62 | 20.37 | 20.38 | 20.29 | 20.40 | 0-3 | 3 |
| | | 75 | 0 | 20.59 | 20.41 | 20.35 | 20.32 | 20.37 | 0-3 | 3 |

LTE Band 41 _ 20 MHz Bandwidth - Power Class 3

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 39750 Ch. 2506.0 MHz | 40185 Ch. 2549.5 MHz | 40620 Ch. 2593.0 MHz | 41055 Ch. 2636.5 MHz | 41490 Ch. 2680.0 MHz | | |
| 20 MHz | QPSK | 1 | 0 | 22.54 | 22.41 | 22.01 | 22.22 | 21.81 | 0 | 0 |
| | | 1 | 49 | 22.53 | 22.40 | 22.31 | 22.33 | 22.17 | 0 | 0 |
| | | 1 | 99 | 22.51 | 22.37 | 22.07 | 21.87 | 22.10 | 0 | 0 |
| | | 50 | 0 | 22.59 | 22.50 | 22.26 | 22.20 | 22.12 | 0-1 | 1 |
| | | 50 | 25 | 22.60 | 22.43 | 22.40 | 22.26 | 22.28 | 0-1 | 1 |
| | | 50 | 49 | 22.58 | 22.41 | 22.31 | 22.21 | 22.34 | 0-1 | 1 |
| | | 100 | 0 | 22.54 | 22.33 | 22.30 | 22.18 | 22.21 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.62 | 22.58 | 22.08 | 22.09 | 21.97 | 0-1 | 1 |
| | | 1 | 49 | 22.60 | 22.54 | 22.35 | 22.34 | 22.35 | 0-1 | 1 |
| | | 1 | 99 | 22.60 | 22.51 | 22.06 | 21.92 | 22.27 | 0-1 | 1 |
| | | 50 | 0 | 21.62 | 21.52 | 21.31 | 21.24 | 21.16 | 0-2 | 2 |
| | | 50 | 25 | 21.64 | 21.46 | 21.40 | 21.29 | 21.30 | 0-2 | 2 |
| | | 50 | 49 | 21.62 | 21.43 | 21.35 | 21.23 | 21.38 | 0-2 | 2 |
| | | 100 | 0 | 21.54 | 21.40 | 21.32 | 21.18 | 21.25 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 21.35 | 21.30 | 20.80 | 20.75 | 20.66 | 0-2 | 2 |
| | | 1 | 49 | 21.34 | 21.30 | 21.11 | 21.11 | 21.06 | 0-2 | 2 |
| | | 1 | 99 | 21.31 | 21.18 | 20.77 | 20.59 | 21.01 | 0-2 | 2 |
| | | 50 | 0 | 20.64 | 20.55 | 20.29 | 20.27 | 20.19 | 0-3 | 3 |
| | | 50 | 25 | 20.66 | 20.48 | 20.42 | 20.32 | 20.34 | 0-3 | 3 |
| | | 50 | 49 | 20.64 | 20.47 | 20.37 | 20.23 | 20.40 | 0-3 | 3 |
| | | 100 | 0 | 20.55 | 20.37 | 20.32 | 20.20 | 20.25 | 0-3 | 3 |

Note; LTE Band 41 has 5 required test channels per FCC KDB 447498 D01v06.

[LTE Band 66 Conducted Power]

LTE Band 66 _ 1.4 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|---------------------|-----------------------|---------------------------|----------|
| | | | | 131979Ch. 1710.7 MHz | 132322 Ch. 1745 MHz | 132665 Ch. 1779.3 MHz | | |
| 1.4 MHz | QPSK | 1 | 0 | 17.81 | 17.97 | 17.88 | 0 | 0 |
| | | 1 | 3 | 17.86 | 18.01 | 17.89 | 0 | 0 |
| | | 1 | 5 | 17.77 | 17.93 | 17.80 | 0 | 0 |
| | | 3 | 0 | 17.88 | 17.95 | 17.95 | 0 | 0 |
| | | 3 | 1 | 17.92 | 18.01 | 17.98 | 0 | 0 |
| | | 3 | 3 | 17.81 | 17.92 | 17.90 | 0 | 0 |
| | 16QAM | 6 | 0 | 17.98 | 18.05 | 17.99 | 0 | 0 |
| | | 1 | 0 | 18.20 | 18.11 | 18.45 | 0 | 0 |
| | | 1 | 3 | 18.33 | 18.14 | 18.48 | 0 | 0 |
| | | 1 | 5 | 18.27 | 18.01 | 18.40 | 0 | 0 |
| | | 3 | 0 | 17.96 | 18.05 | 18.07 | 0 | 0 |
| | | 3 | 1 | 18.01 | 18.17 | 18.13 | 0 | 0 |
| | 64QAM | 3 | 3 | 17.91 | 18.05 | 18.02 | 0 | 0 |
| | | 6 | 0 | 18.12 | 18.03 | 18.04 | 0 | 0 |
| | | 1 | 0 | 18.27 | 18.34 | 18.37 | 0 | 0 |
| | | 1 | 3 | 18.35 | 18.41 | 18.32 | 0 | 0 |
| | | 1 | 5 | 18.24 | 18.34 | 18.27 | 0 | 0 |
| | | 3 | 0 | 18.20 | 18.22 | 18.21 | 0 | 0 |
| | | 3 | 1 | 18.27 | 18.33 | 18.25 | 0 | 0 |
| | | 3 | 3 | 18.21 | 18.26 | 18.17 | 0 | 0 |
| | | 6 | 0 | 17.98 | 18.07 | 18.07 | 0 | 0 |

LTE Band 66 _ 3 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|-----------------------|---------------------|-----------------------|---------------------------|----------|
| | | | | 131987 Ch. 1711.5 MHz | 132322 Ch. 1745 MHz | 132657 Ch. 1778.5 MHz | | |
| 3 MHz | QPSK | 1 | 0 | 17.87 | 18.06 | 18.05 | 0 | 0 |
| | | 1 | 7 | 17.90 | 18.02 | 17.98 | 0 | 0 |
| | | 1 | 14 | 17.87 | 18.01 | 17.93 | 0 | 0 |
| | | 8 | 0 | 18.10 | 18.07 | 18.05 | 0 | 0 |
| | | 8 | 3 | 18.11 | 18.08 | 18.13 | 0 | 0 |
| | | 8 | 7 | 18.04 | 18.04 | 18.04 | 0 | 0 |
| | | 15 | 0 | 18.06 | 18.03 | 18.10 | 0 | 0 |
| | 16QAM | 1 | 0 | 18.07 | 18.51 | 18.23 | 0 | 0 |
| | | 1 | 7 | 18.03 | 18.52 | 18.18 | 0 | 0 |
| | | 1 | 14 | 17.98 | 18.47 | 18.17 | 0 | 0 |
| | | 8 | 0 | 18.11 | 18.19 | 18.15 | 0 | 0 |
| | | 8 | 3 | 18.12 | 18.14 | 18.20 | 0 | 0 |
| | | 8 | 7 | 18.03 | 18.11 | 18.12 | 0 | 0 |
| | 64QAM | 15 | 0 | 18.01 | 18.12 | 18.10 | 0 | 0 |
| | | 1 | 0 | 18.07 | 17.95 | 18.42 | 0 | 0 |
| | | 1 | 7 | 18.11 | 17.95 | 18.36 | 0 | 0 |
| | | 1 | 14 | 18.02 | 17.95 | 18.27 | 0 | 0 |
| | | 8 | 0 | 18.14 | 18.20 | 18.15 | 0 | 0 |
| | | 8 | 3 | 18.17 | 18.25 | 18.19 | 0 | 0 |
| | | 8 | 7 | 18.08 | 18.22 | 18.09 | 0 | 0 |
| | | 15 | 0 | 18.06 | 18.13 | 18.16 | 0 | 0 |

LTE Band 66 _ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|-----------------------|--------------------|-----------------------|---------------------------|----------|
| | | | | 131997 Ch. 1712.5 MHz | 132322Ch. 1745 MHz | 132647 Ch. 1777.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 17.89 | 17.91 | 18.08 | 0 | 0 |
| | | 1 | 12 | 17.99 | 17.96 | 18.14 | 0 | 0 |
| | | 1 | 24 | 17.83 | 17.89 | 17.97 | 0 | 0 |
| | | 12 | 0 | 18.04 | 18.09 | 18.10 | 0 | 0 |
| | | 12 | 6 | 18.08 | 18.10 | 18.12 | 0 | 0 |
| | | 12 | 11 | 18.03 | 18.09 | 18.07 | 0 | 0 |
| | 16QAM | 25 | 0 | 18.05 | 18.07 | 18.13 | 0 | 0 |
| | | 1 | 0 | 18.14 | 18.41 | 18.39 | 0 | 0 |
| | | 1 | 12 | 18.21 | 18.39 | 18.25 | 0 | 0 |
| | | 1 | 24 | 18.12 | 18.35 | 18.14 | 0 | 0 |
| | | 12 | 0 | 18.09 | 18.13 | 18.06 | 0 | 0 |
| | | 12 | 6 | 18.12 | 18.08 | 18.10 | 0 | 0 |
| | 64QAM | 12 | 11 | 18.05 | 18.05 | 18.01 | 0 | 0 |
| | | 25 | 0 | 18.07 | 18.04 | 18.10 | 0 | 0 |
| | | 1 | 0 | 18.02 | 18.29 | 18.30 | 0 | 0 |
| | | 1 | 12 | 18.08 | 18.29 | 18.25 | 0 | 0 |
| | | 1 | 24 | 18.00 | 18.22 | 18.08 | 0 | 0 |
| | | 12 | 0 | 18.09 | 18.16 | 18.16 | 0 | 0 |
| | 64QAM | 12 | 6 | 18.14 | 18.13 | 18.18 | 0 | 0 |
| | | 12 | 11 | 18.06 | 18.15 | 18.11 | 0 | 0 |
| | | 25 | 0 | 18.14 | 18.07 | 18.10 | 0 | 0 |

LTE Band 66 _ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|---------------------|---------------------|---------------------------|----------|
| | | | | 132022 Ch. 1715 MHz | 132322 Ch. 1745 MHz | 132622 Ch. 1775 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 17.67 | 17.79 | 17.99 | 0 | 0 |
| | | 1 | 24 | 17.88 | 17.98 | 18.06 | 0 | 0 |
| | | 1 | 49 | 17.60 | 17.79 | 17.68 | 0 | 0 |
| | | 25 | 0 | 17.98 | 18.02 | 18.06 | 0 | 0 |
| | | 25 | 12 | 18.09 | 18.09 | 18.13 | 0 | 0 |
| | | 25 | 24 | 17.93 | 18.04 | 17.98 | 0 | 0 |
| | 16QAM | 50 | 0 | 18.01 | 18.00 | 18.10 | 0 | 0 |
| | | 1 | 0 | 18.12 | 17.92 | 17.94 | 0 | 0 |
| | | 1 | 24 | 18.29 | 18.21 | 18.11 | 0 | 0 |
| | | 1 | 49 | 17.87 | 17.94 | 17.71 | 0 | 0 |
| | | 25 | 0 | 17.99 | 17.98 | 18.04 | 0 | 0 |
| | | 25 | 12 | 18.09 | 18.04 | 18.14 | 0 | 0 |
| | 64QAM | 25 | 24 | 17.95 | 18.03 | 17.99 | 0 | 0 |
| | | 50 | 0 | 17.96 | 17.96 | 18.10 | 0 | 0 |
| | | 1 | 0 | 18.03 | 17.84 | 18.26 | 0 | 0 |
| | | 1 | 24 | 18.25 | 18.15 | 18.42 | 0 | 0 |
| | | 1 | 49 | 18.00 | 17.96 | 18.13 | 0 | 0 |
| | | 25 | 0 | 17.98 | 18.05 | 18.01 | 0 | 0 |
| | 64QAM | 25 | 12 | 18.09 | 18.08 | 18.13 | 0 | 0 |
| | | 25 | 24 | 17.97 | 18.06 | 17.98 | 0 | 0 |
| | | 50 | 0 | 18.00 | 18.06 | 18.12 | 0 | 0 |

LTE Band 66 _ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|-----------------------|---------------------|-----------------------|---------------------------|----------|
| | | | | 132047 Ch. 1717.5 MHz | 132322 Ch. 1745 MHz | 132597 Ch. 1772.5 MHz | | |
| 15 MHz | QPSK | 1 | 0 | 17.83 | 17.88 | 18.13 | 0 | 0 |
| | | 1 | 36 | 17.84 | 17.95 | 18.03 | 0 | 0 |
| | | 1 | 74 | 17.65 | 17.76 | 17.74 | 0 | 0 |
| | | 36 | 0 | 17.99 | 18.07 | 18.13 | 0 | 0 |
| | | 36 | 18 | 18.01 | 18.06 | 18.17 | 0 | 0 |
| | | 36 | 39 | 17.90 | 18.07 | 18.00 | 0 | 0 |
| | | 75 | 0 | 17.96 | 18.02 | 18.11 | 0 | 0 |
| | 16QAM | 1 | 0 | 18.03 | 18.08 | 18.69 | 0 | 0 |
| | | 1 | 36 | 18.11 | 18.22 | 18.57 | 0 | 0 |
| | | 1 | 74 | 17.99 | 18.09 | 18.40 | 0 | 0 |
| | | 36 | 0 | 17.97 | 18.04 | 18.15 | 0 | 0 |
| | | 36 | 18 | 18.02 | 18.05 | 18.22 | 0 | 0 |
| | | 36 | 39 | 17.88 | 18.00 | 18.04 | 0 | 0 |
| | | 75 | 0 | 17.97 | 18.01 | 18.13 | 0 | 0 |
| | 64QAM | 1 | 0 | 18.09 | 18.00 | 17.97 | 0 | 0 |
| | | 1 | 36 | 18.22 | 18.15 | 17.93 | 0 | 0 |
| | | 1 | 74 | 18.03 | 17.95 | 17.73 | 0 | 0 |
| | | 36 | 0 | 18.01 | 18.07 | 18.23 | 0 | 0 |
| | | 36 | 18 | 18.05 | 18.05 | 18.23 | 0 | 0 |
| | | 36 | 39 | 17.93 | 18.05 | 18.07 | 0 | 0 |
| | | 75 | 0 | 17.98 | 18.03 | 18.16 | 0 | 0 |

LTE Band 66 _ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|---------------------|---------------------|---------------------------|----------|
| | | | | 132072 Ch. 1720 MHz | 132322 Ch. 1745 MHz | 132572 Ch. 1770 MHz | | |
| 20 MHz | QPSK | 1 | 0 | 17.72 | 17.80 | 17.94 | 0 | 0 |
| | | 1 | 49 | 17.90 | 17.99 | 18.07 | 0 | 0 |
| | | 1 | 99 | 17.50 | 17.63 | 17.70 | 0 | 0 |
| | | 50 | 0 | 17.95 | 18.05 | 18.10 | 0 | 0 |
| | | 50 | 25 | 18.01 | 18.06 | 18.20 | 0 | 0 |
| | | 50 | 49 | 17.82 | 18.04 | 18.01 | 0 | 0 |
| | | 100 | 0 | 17.93 | 17.97 | 18.09 | 0 | 0 |
| | 16QAM | 1 | 0 | 17.94 | 17.91 | 18.62 | 0 | 0 |
| | | 1 | 49 | 18.16 | 18.19 | 18.46 | 0 | 0 |
| | | 1 | 99 | 17.94 | 18.03 | 18.35 | 0 | 0 |
| | | 50 | 0 | 18.00 | 18.02 | 18.11 | 0 | 0 |
| | | 50 | 25 | 18.06 | 18.02 | 18.19 | 0 | 0 |
| | | 50 | 49 | 17.88 | 17.99 | 18.02 | 0 | 0 |
| | | 100 | 0 | 17.93 | 17.95 | 18.09 | 0 | 0 |
| | 64QAM | 1 | 0 | 18.02 | 17.98 | 18.35 | 0 | 0 |
| | | 1 | 49 | 18.28 | 18.28 | 18.27 | 0 | 0 |
| | | 1 | 99 | 17.96 | 18.03 | 18.07 | 0 | 0 |
| | | 50 | 0 | 17.93 | 18.03 | 18.11 | 0 | 0 |
| | | 50 | 25 | 17.98 | 18.06 | 18.19 | 0 | 0 |
| | | 50 | 49 | 17.82 | 18.02 | 18.01 | 0 | 0 |
| | | 100 | 0 | 17.93 | 17.96 | 18.13 | 0 | 0 |

11.3.3 LTE Reduced Conducted Power (Grip Sensor on, Earjack)

DSI = 1 PLimit Calculations - 4G Phablet Reduced SAR

[LTE Band 2 Conducted Power]

LTE Band 2 _ 1.4 Mhz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 18607 Ch. 1850.7 Mhz | 18900 Ch. 1880 Mhz | 19193 Ch. 1909.3 Mhz | | |
| 1.4 Mhz | QPSK | 1 | 0 | 17.52 | 17.44 | 17.54 | 0 | 0 |
| | | 1 | 3 | 17.61 | 17.46 | 17.58 | 0 | 0 |
| | | 1 | 5 | 17.50 | 17.40 | 17.51 | 0 | 0 |
| | | 3 | 0 | 17.54 | 17.46 | 17.59 | 0 | 0 |
| | | 3 | 1 | 17.63 | 17.46 | 17.62 | 0 | 0 |
| | | 3 | 3 | 17.58 | 17.42 | 17.55 | 0 | 0 |
| | 6 | 0 | 17.67 | 17.49 | 17.62 | 0 | 0 | |
| | 16QAM | 1 | 0 | 17.84 | 17.82 | 18.06 | 0 | 0 |
| | | 1 | 3 | 17.84 | 17.71 | 18.09 | 0 | 0 |
| | | 1 | 5 | 17.76 | 17.64 | 18.00 | 0 | 0 |
| | | 3 | 0 | 17.67 | 17.56 | 17.65 | 0 | 0 |
| | | 3 | 1 | 17.72 | 17.58 | 17.68 | 0 | 0 |
| | | 3 | 3 | 17.66 | 17.50 | 17.59 | 0 | 0 |
| | 6 | 0 | 17.75 | 17.57 | 17.68 | 0 | 0 | |
| | 64QAM | 1 | 0 | 17.87 | 17.60 | 17.54 | 0 | 0 |
| | | 1 | 3 | 17.92 | 17.63 | 17.55 | 0 | 0 |
| | | 1 | 5 | 17.84 | 17.52 | 17.43 | 0 | 0 |
| | | 3 | 0 | 17.81 | 17.74 | 17.77 | 0 | 0 |
| 3 | | 1 | 17.87 | 17.78 | 17.81 | 0 | 0 | |
| 3 | | 3 | 17.82 | 17.69 | 17.73 | 0 | 0 | |
| 6 | 0 | 17.62 | 17.47 | 17.67 | 0 | 0 | | |

LTE Band 2 _ 3 Mhz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 18615 Ch. 1851.5 Mhz | 18900 Ch. 1880 Mhz | 19185 Ch. 1908.5 Mhz | | |
| 3 Mhz | QPSK | 1 | 0 | 17.72 | 17.42 | 17.59 | 0 | 0 |
| | | 1 | 7 | 17.70 | 17.49 | 17.58 | 0 | 0 |
| | | 1 | 14 | 17.60 | 17.39 | 17.52 | 0 | 0 |
| | | 8 | 0 | 17.77 | 17.53 | 17.72 | 0 | 0 |
| | | 8 | 3 | 17.75 | 17.59 | 17.78 | 0 | 0 |
| | | 8 | 7 | 17.73 | 17.54 | 17.70 | 0 | 0 |
| | 15 | 0 | 17.71 | 17.61 | 17.72 | 0 | 0 | |
| | 16QAM | 1 | 0 | 17.96 | 17.99 | 18.05 | 0 | 0 |
| | | 1 | 7 | 17.85 | 17.96 | 17.95 | 0 | 0 |
| | | 1 | 14 | 17.88 | 17.84 | 17.92 | 0 | 0 |
| | | 8 | 0 | 17.70 | 17.65 | 17.80 | 0 | 0 |
| | | 8 | 3 | 17.70 | 17.76 | 17.81 | 0 | 0 |
| | | 8 | 7 | 17.65 | 17.67 | 17.74 | 0 | 0 |
| | 15 | 0 | 17.78 | 17.69 | 17.67 | 0 | 0 | |
| | 64QAM | 1 | 0 | 17.80 | 17.79 | 17.95 | 0 | 0 |
| | | 1 | 7 | 17.74 | 17.82 | 17.86 | 0 | 0 |
| | | 1 | 14 | 17.72 | 17.74 | 17.83 | 0 | 0 |
| | | 8 | 0 | 17.74 | 17.74 | 17.78 | 0 | 0 |
| 8 | | 3 | 17.79 | 17.79 | 17.76 | 0 | 0 | |
| 8 | | 7 | 17.70 | 17.72 | 17.72 | 0 | 0 | |
| 15 | 0 | 17.76 | 17.54 | 17.77 | 0 | 0 | | |

LTE Band 2 _ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 18625 Ch. 1852.5 MHz | 18900 Ch. 1880 MHz | 19175 Ch. 1907.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 17.36 | 17.24 | 17.53 | 0 | 0 |
| | | 1 | 12 | 17.61 | 17.53 | 17.57 | 0 | 0 |
| | | 1 | 24 | 17.35 | 17.25 | 17.60 | 0 | 0 |
| | | 12 | 0 | 17.67 | 17.47 | 17.53 | 0 | 0 |
| | | 12 | 6 | 17.75 | 17.62 | 17.71 | 0 | 0 |
| | | 12 | 11 | 17.63 | 17.49 | 17.63 | 0 | 0 |
| | 16QAM | 25 | 0 | 17.65 | 17.54 | 17.61 | 0 | 0 |
| | | 1 | 0 | 17.89 | 17.45 | 17.86 | 0 | 0 |
| | | 1 | 12 | 18.19 | 17.84 | 17.87 | 0 | 0 |
| | | 1 | 24 | 17.87 | 17.52 | 17.89 | 0 | 0 |
| | | 12 | 0 | 17.70 | 17.47 | 17.54 | 0 | 0 |
| | | 12 | 6 | 17.77 | 17.60 | 17.76 | 0 | 0 |
| | 64QAM | 12 | 11 | 17.63 | 17.47 | 17.66 | 0 | 0 |
| | | 25 | 0 | 17.66 | 17.51 | 17.61 | 0 | 0 |
| | | 1 | 0 | 17.22 | 17.34 | 17.72 | 0 | 0 |
| | | 1 | 12 | 17.56 | 17.88 | 17.74 | 0 | 0 |
| | | 1 | 24 | 17.26 | 17.60 | 17.76 | 0 | 0 |
| | | 12 | 0 | 17.68 | 17.47 | 17.58 | 0 | 0 |
| | | 12 | 6 | 17.77 | 17.62 | 17.79 | 0 | 0 |
| | | 12 | 11 | 17.67 | 17.50 | 17.64 | 0 | 0 |
| | | 25 | 0 | 17.70 | 17.51 | 17.65 | 0 | 0 |

LTE Band 2 _ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|--------------------|--------------------|---------------------------|----------|
| | | | | 18650 Ch. 1855 MHz | 18900 Ch. 1880 MHz | 19150 Ch. 1905 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 17.36 | 17.24 | 17.53 | 0 | 0 |
| | | 1 | 24 | 17.61 | 17.53 | 17.57 | 0 | 0 |
| | | 1 | 49 | 17.35 | 17.25 | 17.60 | 0 | 0 |
| | | 25 | 0 | 17.67 | 17.47 | 17.53 | 0 | 0 |
| | | 25 | 12 | 17.75 | 17.62 | 17.71 | 0 | 0 |
| | | 25 | 24 | 17.63 | 17.49 | 17.63 | 0 | 0 |
| | | 50 | 0 | 17.65 | 17.54 | 17.61 | 0 | 0 |
| | 16QAM | 1 | 0 | 17.89 | 17.45 | 17.86 | 0 | 0 |
| | | 1 | 24 | 18.19 | 17.84 | 17.87 | 0 | 0 |
| | | 1 | 49 | 17.87 | 17.52 | 17.89 | 0 | 0 |
| | | 25 | 0 | 17.70 | 17.47 | 17.54 | 0 | 0 |
| | | 25 | 12 | 17.77 | 17.60 | 17.76 | 0 | 0 |
| | | 25 | 24 | 17.63 | 17.47 | 17.66 | 0 | 0 |
| | | 50 | 0 | 17.66 | 17.51 | 17.61 | 0 | 0 |
| | 64QAM | 1 | 0 | 17.22 | 17.34 | 17.72 | 0 | 0 |
| | | 1 | 24 | 17.56 | 17.88 | 17.74 | 0 | 0 |
| | | 1 | 49 | 17.26 | 17.60 | 17.76 | 0 | 0 |
| | | 25 | 0 | 17.68 | 17.47 | 17.58 | 0 | 0 |
| | | 25 | 12 | 17.77 | 17.62 | 17.79 | 0 | 0 |
| | | 25 | 24 | 17.67 | 17.50 | 17.64 | 0 | 0 |
| | | 50 | 0 | 17.70 | 17.51 | 17.65 | 0 | 0 |

LTE Band 2 _ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 18675 Ch. 1857.5 MHz | 18900 Ch. 1880 MHz | 19125 Ch. 1902.5 MHz | | |
| 15 MHz | QPSK | 1 | 0 | 17.52 | 17.54 | 17.53 | 0 | 0 |
| | | 1 | 36 | 17.62 | 17.52 | 17.69 | 0 | 0 |
| | | 1 | 74 | 17.46 | 17.41 | 17.79 | 0 | 0 |
| | | 36 | 0 | 17.72 | 17.60 | 17.61 | 0 | 0 |
| | | 36 | 18 | 17.76 | 17.61 | 17.68 | 0 | 0 |
| | | 36 | 39 | 17.72 | 17.69 | 17.78 | 0 | 0 |
| | | 75 | 0 | 17.73 | 17.66 | 17.64 | 0 | 0 |
| | 16QAM | 1 | 0 | 17.76 | 18.20 | 18.12 | 0 | 0 |
| | | 1 | 36 | 17.87 | 18.16 | 18.17 | 0 | 0 |
| | | 1 | 74 | 17.79 | 18.12 | 18.18 | 0 | 0 |
| | | 36 | 0 | 17.73 | 17.65 | 17.59 | 0 | 0 |
| | | 36 | 18 | 17.76 | 17.69 | 17.68 | 0 | 0 |
| | | 36 | 39 | 17.72 | 17.73 | 17.76 | 0 | 0 |
| | | 75 | 0 | 17.75 | 17.73 | 17.65 | 0 | 0 |
| | 64QAM | 1 | 0 | 17.87 | 17.57 | 17.91 | 0 | 0 |
| | | 1 | 36 | 17.97 | 17.53 | 17.98 | 0 | 0 |
| | | 1 | 74 | 17.88 | 17.49 | 17.99 | 0 | 0 |
| | | 36 | 0 | 17.81 | 17.64 | 17.64 | 0 | 0 |
| | | 36 | 18 | 17.83 | 17.63 | 17.72 | 0 | 0 |
| | | 36 | 39 | 17.78 | 17.71 | 17.83 | 0 | 0 |
| | | 75 | 0 | 17.74 | 17.68 | 17.70 | 0 | 0 |

LTE Band 2 _ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|--------------------|--------------------|---------------------------|----------|
| | | | | 18700 Ch. 1860 MHz | 18900 Ch. 1880 MHz | 19100 Ch. 1900 MHz | | |
| 20 MHz | QPSK | 1 | 0 | 17.68 | 17.44 | 17.57 | 0 | 0 |
| | | 1 | 49 | 17.59 | 17.50 | 17.59 | 0 | 0 |
| | | 1 | 99 | 17.43 | 17.45 | 17.81 | 0 | 0 |
| | | 50 | 0 | 17.72 | 17.58 | 17.55 | 0 | 0 |
| | | 50 | 25 | 17.79 | 17.74 | 17.65 | 0 | 0 |
| | | 50 | 49 | 17.74 | 17.63 | 17.73 | 0 | 0 |
| | | 100 | 0 | 17.73 | 17.65 | 17.60 | 0 | 0 |
| | 16QAM | 1 | 0 | 18.04 | 18.26 | 17.91 | 0 | 0 |
| | | 1 | 49 | 17.90 | 18.12 | 18.04 | 0 | 0 |
| | | 1 | 99 | 17.85 | 18.11 | 18.08 | 0 | 0 |
| | | 50 | 0 | 17.75 | 17.61 | 17.57 | 0 | 0 |
| | | 50 | 25 | 17.82 | 17.74 | 17.71 | 0 | 0 |
| | | 50 | 49 | 17.76 | 17.69 | 17.75 | 0 | 0 |
| | | 100 | 0 | 17.74 | 17.67 | 17.64 | 0 | 0 |
| | 64QAM | 1 | 0 | 17.91 | 17.87 | 17.94 | 0 | 0 |
| | | 1 | 49 | 17.80 | 17.81 | 18.02 | 0 | 0 |
| | | 1 | 99 | 17.71 | 17.82 | 18.07 | 0 | 0 |
| | | 50 | 0 | 17.74 | 17.61 | 17.55 | 0 | 0 |
| | | 50 | 25 | 17.84 | 17.73 | 17.67 | 0 | 0 |
| | | 50 | 49 | 17.74 | 17.68 | 17.74 | 0 | 0 |
| | | 100 | 0 | 17.74 | 17.70 | 17.59 | 0 | 0 |

[LTE Band 4 Conducted Power]

LTE Band 4 _ 1.4 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 19957 Ch. 1710.7 MHz | 20175 Ch. 1732.5 MHz | 20393 Ch. 1754.3 MHz | | |
| 1.4 MHz | QPSK | 1 | 0 | 17.95 | 18.07 | 18.09 | 0 | 0 |
| | | 1 | 3 | 18.09 | 18.13 | 18.16 | 0 | 0 |
| | | 1 | 5 | 18.00 | 18.07 | 18.05 | 0 | 0 |
| | | 3 | 0 | 18.02 | 18.01 | 18.22 | 0 | 0 |
| | | 3 | 1 | 18.04 | 18.11 | 18.23 | 0 | 0 |
| | | 3 | 3 | 17.97 | 18.04 | 18.17 | 0 | 0 |
| | 16QAM | 6 | 0 | 18.07 | 18.18 | 18.25 | 0 | 0 |
| | | 1 | 0 | 18.17 | 18.19 | 18.23 | 0 | 0 |
| | | 1 | 3 | 18.24 | 18.33 | 18.26 | 0 | 0 |
| | | 1 | 5 | 18.14 | 18.25 | 18.18 | 0 | 0 |
| | | 3 | 0 | 18.16 | 18.15 | 18.31 | 0 | 0 |
| | | 3 | 1 | 18.19 | 18.28 | 18.28 | 0 | 0 |
| | 64QAM | 3 | 3 | 18.13 | 18.23 | 18.18 | 0 | 0 |
| | | 6 | 0 | 18.15 | 18.25 | 18.31 | 0 | 0 |
| | | 1 | 0 | 18.31 | 18.34 | 18.35 | 0 | 0 |
| | | 1 | 3 | 18.45 | 18.46 | 18.37 | 0 | 0 |
| | | 1 | 5 | 18.39 | 18.38 | 18.29 | 0 | 0 |
| | | 3 | 0 | 18.33 | 18.18 | 18.36 | 0 | 0 |
| | | 3 | 1 | 18.38 | 18.28 | 18.38 | 0 | 0 |
| | | 3 | 3 | 18.35 | 18.20 | 18.31 | 0 | 0 |
| | | 6 | 0 | 18.09 | 18.29 | 18.31 | 0 | 0 |

LTE Band 4 _ 3 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 19965 Ch. 1711.5 MHz | 20175 Ch. 1732.5 MHz | 20385 Ch. 1753.5 MHz | | |
| 3 MHz | QPSK | 1 | 0 | 18.11 | 18.13 | 18.24 | 0 | 0 |
| | | 1 | 7 | 18.15 | 18.17 | 18.27 | 0 | 0 |
| | | 1 | 14 | 18.06 | 18.07 | 18.18 | 0 | 0 |
| | | 8 | 0 | 18.18 | 18.22 | 18.37 | 0 | 0 |
| | | 8 | 3 | 18.22 | 18.21 | 18.38 | 0 | 0 |
| | | 8 | 7 | 18.19 | 18.23 | 18.23 | 0 | 0 |
| | | 15 | 0 | 18.23 | 18.16 | 18.33 | 0 | 0 |
| | 16QAM | 1 | 0 | 18.56 | 18.36 | 18.81 | 0 | 0 |
| | | 1 | 7 | 18.58 | 18.39 | 18.72 | 0 | 0 |
| | | 1 | 14 | 18.53 | 18.36 | 18.75 | 0 | 0 |
| | | 8 | 0 | 18.20 | 18.27 | 18.32 | 0 | 0 |
| | | 8 | 3 | 18.28 | 18.24 | 18.41 | 0 | 0 |
| | | 8 | 7 | 18.21 | 18.22 | 18.37 | 0 | 0 |
| | | 15 | 0 | 18.24 | 18.19 | 18.40 | 0 | 0 |
| | 64QAM | 1 | 0 | 18.36 | 18.25 | 18.26 | 0 | 0 |
| | | 1 | 7 | 18.43 | 18.25 | 18.24 | 0 | 0 |
| | | 1 | 14 | 18.41 | 18.28 | 18.28 | 0 | 0 |
| | | 8 | 0 | 18.22 | 18.20 | 18.30 | 0 | 0 |
| | | 8 | 3 | 18.29 | 18.24 | 18.37 | 0 | 0 |
| | | 8 | 7 | 18.20 | 18.21 | 18.28 | 0 | 0 |
| | 15 | 0 | 18.25 | 18.12 | 18.46 | 0 | 0 | |

LTE Band 4 _ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] | |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|---|
| | | | | 19975 Ch. 1712.5 MHz | 20175 Ch. 1732.5 MHz | 20375 Ch. 1752.5 MHz | | | |
| 5 MHz | QPSK | 1 | 0 | 18.09 | 18.12 | 18.14 | 0 | 0 | |
| | | 1 | 12 | 18.27 | 18.21 | 18.27 | 0 | 0 | |
| | | 1 | 24 | 18.11 | 18.09 | 18.10 | 0 | 0 | |
| | | 12 | 0 | 18.22 | 18.18 | 18.28 | 0 | 0 | |
| | | 12 | 6 | 18.30 | 18.26 | 18.33 | 0 | 0 | |
| | | 12 | 11 | 18.20 | 18.26 | 18.32 | 0 | 0 | |
| | 16QAM | 25 | 0 | 18.23 | 18.16 | 18.27 | 0 | 0 | |
| | | 1 | 0 | 18.43 | 18.26 | 18.68 | 0 | 0 | |
| | | 1 | 12 | 18.50 | 18.36 | 18.74 | 0 | 0 | |
| | | 1 | 24 | 18.45 | 18.23 | 18.67 | 0 | 0 | |
| | | 12 | 0 | 18.18 | 18.25 | 18.36 | 0 | 0 | |
| | | 12 | 6 | 18.21 | 18.31 | 18.37 | 0 | 0 | |
| | 64QAM | 12 | 11 | 18.17 | 18.30 | 18.34 | 0 | 0 | |
| | | 25 | 0 | 18.18 | 18.27 | 18.27 | 0 | 0 | |
| | | 1 | 0 | 18.39 | 18.44 | 18.48 | 0 | 0 | |
| | | 1 | 12 | 18.49 | 18.51 | 18.54 | 0 | 0 | |
| | | 1 | 24 | 18.43 | 18.42 | 18.39 | 0 | 0 | |
| | | 12 | 0 | 18.17 | 18.32 | 18.38 | 0 | 0 | |
| | 10 MHz | QPSK | 12 | 6 | 18.27 | 18.35 | 18.37 | 0 | 0 |
| | | | 12 | 11 | 18.23 | 18.34 | 18.38 | 0 | 0 |
| | | | 25 | 0 | 18.22 | 18.16 | 18.31 | 0 | 0 |
| 1 | | | 0 | 17.75 | 17.86 | 17.97 | 0 | 0 | |
| 1 | | | 24 | 18.00 | 18.14 | 18.24 | 0 | 0 | |
| 1 | | | 49 | 17.70 | 17.85 | 17.92 | 0 | 0 | |
| 25 | | | 0 | 18.08 | 18.13 | 18.22 | 0 | 0 | |
| 16QAM | 25 | 12 | 18.23 | 18.18 | 18.26 | 0 | 0 | | |
| | 25 | 24 | 18.08 | 18.17 | 18.25 | 0 | 0 | | |
| | 50 | 0 | 18.17 | 18.11 | 18.19 | 0 | 0 | | |
| | 1 | 0 | 17.88 | 18.45 | 18.17 | 0 | 0 | | |
| | 1 | 24 | 18.13 | 18.72 | 18.55 | 0 | 0 | | |
| | 1 | 49 | 17.80 | 18.43 | 18.16 | 0 | 0 | | |
| | 25 | 0 | 18.06 | 18.17 | 18.17 | 0 | 0 | | |
| 64QAM | 25 | 12 | 18.22 | 18.21 | 18.23 | 0 | 0 | | |
| | 25 | 24 | 18.08 | 18.17 | 18.14 | 0 | 0 | | |
| | 50 | 0 | 18.07 | 18.05 | 18.18 | 0 | 0 | | |
| | 1 | 0 | 17.93 | 18.18 | 18.27 | 0 | 0 | | |
| | 1 | 24 | 18.20 | 18.49 | 18.59 | 0 | 0 | | |
| | 1 | 49 | 17.86 | 18.16 | 18.29 | 0 | 0 | | |
| | 25 | 0 | 18.08 | 18.18 | 18.22 | 0 | 0 | | |
| 20 MHz | QPSK | 25 | 12 | 18.30 | 18.28 | 18.28 | 0 | 0 | |
| | | 25 | 24 | 18.10 | 18.21 | 18.24 | 0 | 0 | |
| | | 50 | 0 | 18.12 | 18.10 | 18.24 | 0 | 0 | |
| | | 1 | 0 | 18.12 | 18.10 | 18.24 | 0 | 0 | |
| | | 1 | 24 | 18.12 | 18.10 | 18.24 | 0 | 0 | |

LTE Band 4 _ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|----------------------|--------------------|---------------------------|----------|
| | | | | 20000 Ch. 1715 MHz | 20175 Ch. 1732.5 MHz | 20350 Ch. 1750 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 17.75 | 17.86 | 17.97 | 0 | 0 |
| | | 1 | 24 | 18.00 | 18.14 | 18.24 | 0 | 0 |
| | | 1 | 49 | 17.70 | 17.85 | 17.92 | 0 | 0 |
| | | 25 | 0 | 18.08 | 18.13 | 18.22 | 0 | 0 |
| | | 25 | 12 | 18.23 | 18.18 | 18.26 | 0 | 0 |
| | | 25 | 24 | 18.08 | 18.17 | 18.25 | 0 | 0 |
| | | 50 | 0 | 18.17 | 18.11 | 18.19 | 0 | 0 |
| | 16QAM | 1 | 0 | 17.88 | 18.45 | 18.17 | 0 | 0 |
| | | 1 | 24 | 18.13 | 18.72 | 18.55 | 0 | 0 |
| | | 1 | 49 | 17.80 | 18.43 | 18.16 | 0 | 0 |
| | | 25 | 0 | 18.06 | 18.17 | 18.17 | 0 | 0 |
| | | 25 | 12 | 18.22 | 18.21 | 18.23 | 0 | 0 |
| | | 25 | 24 | 18.08 | 18.17 | 18.14 | 0 | 0 |
| | | 50 | 0 | 18.07 | 18.05 | 18.18 | 0 | 0 |
| | 64QAM | 1 | 0 | 17.93 | 18.18 | 18.27 | 0 | 0 |
| | | 1 | 24 | 18.20 | 18.49 | 18.59 | 0 | 0 |
| | | 1 | 49 | 17.86 | 18.16 | 18.29 | 0 | 0 |
| | | 25 | 0 | 18.08 | 18.18 | 18.22 | 0 | 0 |
| | | 25 | 12 | 18.30 | 18.28 | 18.28 | 0 | 0 |
| | | 25 | 24 | 18.10 | 18.21 | 18.24 | 0 | 0 |
| | | 50 | 0 | 18.12 | 18.10 | 18.24 | 0 | 0 |

LTE Band 4 _ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 20025 Ch. 1717.5 MHz | 20175 Ch. 1732.5 MHz | 20325 Ch. 1747.5 MHz | | |
| 15 MHz | QPSK | 1 | 0 | 17.79 | 17.91 | 18.08 | 0 | 0 |
| | | 1 | 36 | 17.99 | 18.11 | 18.15 | 0 | 0 |
| | | 1 | 74 | 17.84 | 18.00 | 17.95 | 0 | 0 |
| | | 36 | 0 | 18.06 | 18.11 | 18.21 | 0 | 0 |
| | | 36 | 18 | 18.14 | 18.12 | 18.33 | 0 | 0 |
| | | 36 | 39 | 18.07 | 18.18 | 18.23 | 0 | 0 |
| | | 75 | 0 | 18.11 | 18.08 | 18.26 | 0 | 0 |
| | 16QAM | 1 | 0 | 18.46 | 18.29 | 18.24 | 0 | 0 |
| | | 1 | 36 | 18.59 | 18.52 | 18.44 | 0 | 0 |
| | | 1 | 74 | 18.46 | 18.39 | 18.34 | 0 | 0 |
| | | 36 | 0 | 18.13 | 18.14 | 18.13 | 0 | 0 |
| | | 36 | 18 | 18.23 | 18.16 | 18.29 | 0 | 0 |
| | | 36 | 39 | 18.17 | 18.19 | 18.21 | 0 | 0 |
| | | 75 | 0 | 18.16 | 18.10 | 18.25 | 0 | 0 |
| | 64QAM | 1 | 0 | 17.85 | 18.25 | 18.08 | 0 | 0 |
| | | 1 | 36 | 18.09 | 18.50 | 18.34 | 0 | 0 |
| | | 1 | 74 | 18.06 | 18.32 | 18.20 | 0 | 0 |
| | | 36 | 0 | 18.11 | 18.10 | 18.23 | 0 | 0 |
| | | 36 | 18 | 18.21 | 18.12 | 18.36 | 0 | 0 |
| | | 36 | 39 | 18.10 | 18.18 | 18.26 | 0 | 0 |
| | | 75 | 0 | 18.14 | 18.09 | 18.26 | 0 | 0 |

LTE Band 4 _ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|---------------------------|----------|
| | | | | 20175 Ch. 1732.5 MHz | | |
| 20 MHz | QPSK | 1 | 0 | 17.73 | 0 | 0 |
| | | 1 | 49 | 17.95 | 0 | 0 |
| | | 1 | 99 | 17.84 | 0 | 0 |
| | | 50 | 0 | 18.08 | 0 | 0 |
| | | 50 | 25 | 18.13 | 0 | 0 |
| | | 50 | 49 | 18.09 | 0 | 0 |
| | | 100 | 0 | 18.07 | 0 | 0 |
| | 16QAM | 1 | 0 | 18.39 | 0 | 0 |
| | | 1 | 49 | 18.64 | 0 | 0 |
| | | 1 | 99 | 18.33 | 0 | 0 |
| | | 50 | 0 | 18.09 | 0 | 0 |
| | | 50 | 25 | 18.15 | 0 | 0 |
| | | 50 | 49 | 18.15 | 0 | 0 |
| | | 100 | 0 | 18.09 | 0 | 0 |
| | 64QAM | 1 | 0 | 18.02 | 0 | 0 |
| | | 1 | 49 | 18.30 | 0 | 0 |
| | | 1 | 99 | 18.14 | 0 | 0 |
| | | 50 | 0 | 18.11 | 0 | 0 |
| | | 50 | 25 | 18.17 | 0 | 0 |
| | | 50 | 49 | 18.16 | 0 | 0 |
| | | 100 | 0 | 18.06 | 0 | 0 |

[LTE Band 7 Conducted Power]

LTE Band 7_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 20775 Ch. 2502.5 MHz | 21100 Ch. 2535 MHz | 21425 Ch. 2567.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 19.64 | 19.66 | 19.47 | 0 | 0 |
| | | 1 | 12 | 19.64 | 19.67 | 19.45 | 0 | 0 |
| | | 1 | 24 | 19.62 | 19.58 | 19.42 | 0 | 0 |
| | | 12 | 0 | 19.75 | 19.65 | 19.50 | 0 | 0 |
| | | 12 | 6 | 19.75 | 19.71 | 19.56 | 0 | 0 |
| | | 12 | 11 | 19.75 | 19.71 | 19.51 | 0 | 0 |
| | | 25 | 0 | 19.69 | 19.59 | 19.48 | 0 | 0 |
| | 16QAM | 1 | 0 | 19.94 | 19.89 | 19.76 | 0 | 0 |
| | | 1 | 12 | 19.93 | 19.93 | 19.76 | 0 | 0 |
| | | 1 | 24 | 19.93 | 19.83 | 19.77 | 0 | 0 |
| | | 12 | 0 | 19.73 | 19.67 | 19.51 | 0 | 0 |
| | | 12 | 6 | 19.76 | 19.76 | 19.56 | 0 | 0 |
| | | 12 | 11 | 19.71 | 19.72 | 19.52 | 0 | 0 |
| | | 25 | 0 | 19.75 | 19.62 | 19.49 | 0 | 0 |
| | 64QAM | 1 | 0 | 19.88 | 19.93 | 19.74 | 0 | 0 |
| | | 1 | 12 | 19.94 | 19.89 | 19.68 | 0 | 0 |
| | | 1 | 24 | 19.93 | 19.85 | 19.71 | 0 | 0 |
| | | 12 | 0 | 19.78 | 19.70 | 19.54 | 0 | 0 |
| | | 12 | 6 | 19.82 | 19.79 | 19.62 | 0 | 0 |
| | | 12 | 11 | 19.76 | 19.76 | 19.57 | 0 | 0 |
| | | 25 | 0 | 19.76 | 19.66 | 19.49 | 0 | 0 |

LTE Band 7_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|--------------------|--------------------|---------------------------|----------|
| | | | | 20800 Ch. 2505 MHz | 21100 Ch. 2535 MHz | 21400 Ch. 2565 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 19.63 | 19.58 | 19.43 | 0 | 0 |
| | | 1 | 24 | 19.60 | 19.58 | 19.41 | 0 | 0 |
| | | 1 | 49 | 19.58 | 19.59 | 19.46 | 0 | 0 |
| | | 25 | 0 | 19.73 | 19.70 | 19.55 | 0 | 0 |
| | | 25 | 12 | 19.75 | 19.73 | 19.55 | 0 | 0 |
| | | 25 | 24 | 19.64 | 19.61 | 19.54 | 0 | 0 |
| | | 50 | 0 | 19.60 | 19.57 | 19.50 | 0 | 0 |
| | 16QAM | 1 | 0 | 19.97 | 19.95 | 19.78 | 0 | 0 |
| | | 1 | 24 | 20.00 | 19.99 | 19.78 | 0 | 0 |
| | | 1 | 49 | 19.96 | 19.93 | 19.77 | 0 | 0 |
| | | 25 | 0 | 19.70 | 19.67 | 19.50 | 0 | 0 |
| | | 25 | 12 | 19.75 | 19.73 | 19.55 | 0 | 0 |
| | | 25 | 24 | 19.66 | 19.59 | 19.54 | 0 | 0 |
| | | 50 | 0 | 19.57 | 19.52 | 19.46 | 0 | 0 |
| | 64QAM | 1 | 0 | 19.89 | 19.85 | 19.69 | 0 | 0 |
| | | 1 | 24 | 19.89 | 19.83 | 19.68 | 0 | 0 |
| | | 1 | 49 | 19.84 | 19.80 | 19.72 | 0 | 0 |
| | | 25 | 0 | 19.75 | 19.70 | 19.56 | 0 | 0 |
| | | 25 | 12 | 19.81 | 19.78 | 19.58 | 0 | 0 |
| | | 25 | 24 | 19.69 | 19.62 | 19.54 | 0 | 0 |
| | | 50 | 0 | 19.62 | 19.60 | 19.52 | 0 | 0 |

LTE Band 7 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 20825 Ch. 2507.5 MHz | 21100 Ch. 2535 MHz | 21375 Ch. 2562.5 MHz | | |
| 15 MHz | QPSK | 1 | 0 | 19.50 | 19.50 | 19.34 | 0 | 0 |
| | | 1 | 36 | 19.49 | 19.52 | 19.39 | 0 | 0 |
| | | 1 | 74 | 19.50 | 19.45 | 19.36 | 0 | 0 |
| | | 36 | 0 | 19.64 | 19.64 | 19.53 | 0 | 0 |
| | | 36 | 18 | 19.59 | 19.55 | 19.53 | 0 | 0 |
| | | 36 | 39 | 19.58 | 19.58 | 19.47 | 0 | 0 |
| | | 75 | 0 | 19.54 | 19.55 | 19.47 | 0 | 0 |
| | 16QAM | 1 | 0 | 19.90 | 19.79 | 19.79 | 0 | 0 |
| | | 1 | 36 | 19.95 | 19.82 | 19.72 | 0 | 0 |
| | | 1 | 74 | 19.86 | 19.87 | 19.71 | 0 | 0 |
| | | 36 | 0 | 19.66 | 19.65 | 19.54 | 0 | 0 |
| | | 36 | 18 | 19.60 | 19.59 | 19.56 | 0 | 0 |
| | | 36 | 39 | 19.58 | 19.56 | 19.46 | 0 | 0 |
| | | 75 | 0 | 19.56 | 19.55 | 19.50 | 0 | 0 |
| | 64QAM | 1 | 0 | 19.79 | 19.79 | 19.69 | 0 | 0 |
| | | 1 | 36 | 19.80 | 19.73 | 19.59 | 0 | 0 |
| | | 1 | 74 | 19.75 | 19.72 | 19.56 | 0 | 0 |
| | | 36 | 0 | 19.71 | 19.71 | 19.57 | 0 | 0 |
| | | 36 | 18 | 19.63 | 19.61 | 19.58 | 0 | 0 |
| | | 36 | 39 | 19.63 | 19.60 | 19.49 | 0 | 0 |
| | | 75 | 0 | 19.58 | 19.52 | 19.50 | 0 | 0 |

LTE Band 7 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|--------------------|--------------------|---------------------------|----------|
| | | | | 20850 Ch. 2510 MHz | 21100 Ch. 2535 MHz | 21350 Ch. 2560 MHz | | |
| 20 MHz | QPSK | 1 | 0 | 19.51 | 19.45 | 19.36 | 0 | 0 |
| | | 1 | 49 | 19.47 | 19.41 | 19.31 | 0 | 0 |
| | | 1 | 99 | 19.48 | 19.42 | 19.36 | 0 | 0 |
| | | 50 | 0 | 19.65 | 19.64 | 19.52 | 0 | 0 |
| | | 50 | 25 | 19.68 | 19.59 | 19.52 | 0 | 0 |
| | | 50 | 49 | 19.56 | 19.58 | 19.43 | 0 | 0 |
| | | 100 | 0 | 19.57 | 19.49 | 19.44 | 0 | 0 |
| | 16QAM | 1 | 0 | 19.91 | 19.85 | 19.84 | 0 | 0 |
| | | 1 | 49 | 19.92 | 19.87 | 19.78 | 0 | 0 |
| | | 1 | 99 | 19.88 | 19.86 | 19.74 | 0 | 0 |
| | | 50 | 0 | 19.70 | 19.68 | 19.56 | 0 | 0 |
| | | 50 | 25 | 19.66 | 19.60 | 19.54 | 0 | 0 |
| | | 50 | 49 | 19.60 | 19.60 | 19.46 | 0 | 0 |
| | | 100 | 0 | 19.61 | 19.53 | 19.46 | 0 | 0 |
| | 64QAM | 1 | 0 | 19.75 | 19.75 | 19.65 | 0 | 0 |
| | | 1 | 49 | 19.74 | 19.73 | 19.69 | 0 | 0 |
| | | 1 | 99 | 19.70 | 19.70 | 19.56 | 0 | 0 |
| | | 50 | 0 | 19.68 | 19.69 | 19.54 | 0 | 0 |
| | | 50 | 25 | 19.71 | 19.62 | 19.57 | 0 | 0 |
| | | 50 | 49 | 19.61 | 19.62 | 19.45 | 0 | 0 |
| | | 100 | 0 | 19.62 | 19.56 | 19.50 | 0 | 0 |

[LTE Band 25 Conducted Power]

LTE Band 25 1.4 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] | |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|---|
| | | | | 26047 Ch. 1850.7 MHz | 26365 Ch. 1882.5 MHz | 26683 Ch. 1914.3 MHz | | | |
| 1.4 MHz | QPSK | 1 | 0 | 17.77 | 17.68 | 17.77 | 0 | 0 | |
| | | 1 | 3 | 17.87 | 17.72 | 17.83 | 0 | 0 | |
| | | 1 | 5 | 17.89 | 17.70 | 17.80 | 0 | 0 | |
| | | 3 | 0 | 17.79 | 17.68 | 17.84 | 0 | 0 | |
| | | 3 | 1 | 17.83 | 17.72 | 17.88 | 0 | 0 | |
| | | 3 | 3 | 17.76 | 17.69 | 17.88 | 0 | 0 | |
| | 16QAM | 1 | 0 | 18.00 | 17.87 | 17.89 | 0 | 0 | |
| | | 1 | 3 | 18.05 | 17.95 | 18.01 | 0 | 0 | |
| | | 1 | 5 | 17.99 | 17.85 | 17.99 | 0 | 0 | |
| | | 3 | 0 | 17.90 | 17.79 | 17.86 | 0 | 0 | |
| | | 3 | 1 | 17.97 | 17.86 | 17.91 | 0 | 0 | |
| | | 3 | 3 | 17.88 | 17.79 | 17.86 | 0 | 0 | |
| | 64QAM | 6 | 0 | 17.90 | 17.85 | 17.99 | 0 | 0 | |
| | | 1 | 0 | 18.14 | 17.96 | 18.00 | 0 | 0 | |
| | | 1 | 3 | 18.23 | 18.06 | 18.06 | 0 | 0 | |
| | | 1 | 5 | 18.17 | 18.00 | 18.01 | 0 | 0 | |
| | | 3 | 0 | 18.09 | 17.82 | 18.01 | 0 | 0 | |
| | | 3 | 1 | 18.14 | 17.87 | 18.11 | 0 | 0 | |
| | | | 3 | 3 | 18.13 | 17.84 | 18.05 | 0 | 0 |
| | | | 6 | 0 | 17.87 | 17.91 | 17.94 | 0 | 0 |

LTE Band 25 3 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 26055 Ch. 1851.5 MHz | 26365 Ch. 1882.5 MHz | 26675 Ch. 1913.5 MHz | | |
| 3 MHz | QPSK | 1 | 0 | 17.84 | 17.68 | 17.91 | 0 | 0 |
| | | 1 | 7 | 17.84 | 17.78 | 17.98 | 0 | 0 |
| | | 1 | 14 | 17.89 | 17.79 | 17.97 | 0 | 0 |
| | | 8 | 0 | 17.91 | 17.77 | 17.94 | 0 | 0 |
| | | 8 | 3 | 17.96 | 17.88 | 18.07 | 0 | 0 |
| | | 8 | 7 | 18.00 | 17.83 | 18.03 | 0 | 0 |
| | | 15 | 0 | 17.99 | 17.83 | 18.07 | 0 | 0 |
| | 16QAM | 1 | 0 | 18.35 | 17.93 | 18.43 | 0 | 0 |
| | | 1 | 7 | 18.32 | 17.95 | 18.47 | 0 | 0 |
| | | 1 | 14 | 18.39 | 18.05 | 18.57 | 0 | 0 |
| | | 8 | 0 | 17.99 | 17.79 | 18.03 | 0 | 0 |
| | | 8 | 3 | 18.05 | 17.83 | 18.12 | 0 | 0 |
| | | 8 | 7 | 18.05 | 17.81 | 18.13 | 0 | 0 |
| | | 15 | 0 | 18.00 | 17.86 | 18.10 | 0 | 0 |
| | 64QAM | 1 | 0 | 18.22 | 17.86 | 18.11 | 0 | 0 |
| | | 1 | 7 | 18.17 | 17.91 | 18.12 | 0 | 0 |
| | | 1 | 14 | 18.24 | 17.91 | 18.17 | 0 | 0 |
| | | 8 | 0 | 17.99 | 17.75 | 17.96 | 0 | 0 |
| | | 8 | 3 | 18.07 | 17.85 | 18.05 | 0 | 0 |
| | | 8 | 7 | 18.07 | 17.83 | 18.01 | 0 | 0 |
| | | 15 | 0 | 18.00 | 17.81 | 18.18 | 0 | 0 |

LTE Band 25 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 26065 Ch. 1852.5 MHz | 26365 Ch. 1882.5 MHz | 26665 Ch. 1912.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 17.87 | 17.75 | 17.85 | 0 | 0 |
| | | 1 | 12 | 17.97 | 17.83 | 17.94 | 0 | 0 |
| | | 1 | 24 | 17.98 | 17.78 | 17.89 | 0 | 0 |
| | | 12 | 0 | 17.91 | 17.76 | 17.98 | 0 | 0 |
| | | 12 | 6 | 17.98 | 17.89 | 18.04 | 0 | 0 |
| | | 12 | 11 | 18.02 | 17.90 | 18.09 | 0 | 0 |
| | | 25 | 0 | 17.92 | 17.86 | 18.06 | 0 | 0 |
| | 16QAM | 1 | 0 | 18.27 | 17.84 | 18.38 | 0 | 0 |
| | | 1 | 12 | 18.23 | 17.89 | 18.49 | 0 | 0 |
| | | 1 | 24 | 18.25 | 17.95 | 18.50 | 0 | 0 |
| | | 12 | 0 | 17.93 | 17.87 | 18.02 | 0 | 0 |
| | | 12 | 6 | 17.97 | 17.92 | 18.04 | 0 | 0 |
| | | 12 | 11 | 17.94 | 17.91 | 18.08 | 0 | 0 |
| | | 25 | 0 | 17.93 | 17.89 | 18.01 | 0 | 0 |
| | 64QAM | 1 | 0 | 18.26 | 18.09 | 18.19 | 0 | 0 |
| | | 1 | 12 | 18.25 | 18.14 | 18.20 | 0 | 0 |
| | | 1 | 24 | 18.27 | 18.13 | 18.19 | 0 | 0 |
| | | 12 | 0 | 17.96 | 17.88 | 18.01 | 0 | 0 |
| | | 12 | 6 | 17.99 | 17.99 | 18.07 | 0 | 0 |
| | | 12 | 11 | 17.96 | 17.95 | 18.17 | 0 | 0 |
| | | 25 | 0 | 17.93 | 17.79 | 18.11 | 0 | 0 |

LTE Band 25 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|----------------------|--------------------|---------------------------|----------|
| | | | | 26090 Ch. 1855 MHz | 26365 Ch. 1882.5 MHz | 26640 Ch. 1910 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 17.54 | 17.56 | 18.08 | 0 | 0 |
| | | 1 | 24 | 17.70 | 17.68 | 17.97 | 0 | 0 |
| | | 1 | 49 | 17.52 | 17.46 | 17.92 | 0 | 0 |
| | | 25 | 0 | 17.88 | 17.71 | 17.91 | 0 | 0 |
| | | 25 | 12 | 17.94 | 17.87 | 18.00 | 0 | 0 |
| | | 25 | 24 | 17.89 | 17.81 | 18.04 | 0 | 0 |
| | | 50 | 0 | 17.88 | 17.81 | 17.99 | 0 | 0 |
| | 16QAM | 1 | 0 | 17.68 | 18.15 | 18.16 | 0 | 0 |
| | | 1 | 24 | 17.97 | 18.27 | 18.22 | 0 | 0 |
| | | 1 | 49 | 17.71 | 18.02 | 18.24 | 0 | 0 |
| | | 25 | 0 | 17.88 | 17.71 | 17.82 | 0 | 0 |
| | | 25 | 12 | 17.99 | 17.87 | 17.93 | 0 | 0 |
| | | 25 | 24 | 17.90 | 17.81 | 17.97 | 0 | 0 |
| | | 50 | 0 | 17.86 | 17.78 | 17.97 | 0 | 0 |
| | 64QAM | 1 | 0 | 17.72 | 17.83 | 18.16 | 0 | 0 |
| | | 1 | 24 | 17.92 | 18.06 | 18.27 | 0 | 0 |
| | | 1 | 49 | 17.65 | 17.82 | 18.33 | 0 | 0 |
| | | 25 | 0 | 17.88 | 17.75 | 17.88 | 0 | 0 |
| | | 25 | 12 | 18.00 | 17.94 | 18.02 | 0 | 0 |
| | | 25 | 24 | 17.92 | 17.86 | 18.00 | 0 | 0 |
| | | 50 | 0 | 17.91 | 17.87 | 18.05 | 0 | 0 |

LTE Band 25 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 26115 Ch. 1857.5 MHz | 26365 Ch. 1882.5 MHz | 26615 Ch. 1907.5 MHz | | |
| 15 MHz | QPSK | 1 | 0 | 17.67 | 17.82 | 17.88 | 0 | 0 |
| | | 1 | 36 | 17.80 | 17.74 | 18.03 | 0 | 0 |
| | | 1 | 74 | 17.59 | 17.69 | 17.81 | 0 | 0 |
| | | 36 | 0 | 17.88 | 17.74 | 17.81 | 0 | 0 |
| | | 36 | 18 | 17.95 | 17.80 | 17.95 | 0 | 0 |
| | | 36 | 39 | 17.87 | 17.82 | 17.99 | 0 | 0 |
| | | 75 | 0 | 17.88 | 17.81 | 17.87 | 0 | 0 |
| | 16QAM | 1 | 0 | 18.24 | 18.22 | 18.12 | 0 | 0 |
| | | 1 | 36 | 18.37 | 18.17 | 18.15 | 0 | 0 |
| | | 1 | 74 | 18.22 | 18.17 | 18.25 | 0 | 0 |
| | | 36 | 0 | 17.96 | 17.73 | 17.82 | 0 | 0 |
| | | 36 | 18 | 18.00 | 17.80 | 17.92 | 0 | 0 |
| | | 36 | 39 | 17.93 | 17.82 | 18.00 | 0 | 0 |
| | | 75 | 0 | 17.95 | 17.79 | 17.94 | 0 | 0 |
| | 64QAM | 1 | 0 | 17.79 | 18.14 | 17.99 | 0 | 0 |
| | | 1 | 36 | 17.99 | 18.16 | 18.08 | 0 | 0 |
| | | 1 | 74 | 17.76 | 18.10 | 18.11 | 0 | 0 |
| | | 36 | 0 | 17.89 | 17.73 | 17.91 | 0 | 0 |
| | | 36 | 18 | 17.93 | 17.76 | 18.03 | 0 | 0 |
| | | 36 | 39 | 17.89 | 17.81 | 18.09 | 0 | 0 |
| | | 75 | 0 | 17.89 | 17.79 | 17.90 | 0 | 0 |

LTE Band 25 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|----------------------|--------------------|---------------------------|----------|
| | | | | 26140 Ch. 1860 MHz | 26365 Ch. 1882.5 MHz | 26590 Ch. 1905 MHz | | |
| 20 MHz | QPSK | 1 | 0 | 17.87 | 17.62 | 17.72 | 0 | 0 |
| | | 1 | 49 | 17.85 | 17.64 | 17.93 | 0 | 0 |
| | | 1 | 99 | 17.59 | 17.54 | 17.94 | 0 | 0 |
| | | 50 | 0 | 17.95 | 17.83 | 17.87 | 0 | 0 |
| | | 50 | 25 | 17.92 | 17.84 | 17.89 | 0 | 0 |
| | | 50 | 49 | 17.87 | 17.84 | 18.00 | 0 | 0 |
| | | 100 | 0 | 17.83 | 17.77 | 17.80 | 0 | 0 |
| | 16QAM | 1 | 0 | 18.48 | 18.03 | 18.17 | 0 | 0 |
| | | 1 | 49 | 18.35 | 17.75 | 18.12 | 0 | 0 |
| | | 1 | 99 | 18.29 | 17.84 | 18.20 | 0 | 0 |
| | | 50 | 0 | 18.03 | 17.83 | 17.90 | 0 | 0 |
| | | 50 | 25 | 17.97 | 17.83 | 17.91 | 0 | 0 |
| | | 50 | 49 | 17.93 | 17.81 | 18.04 | 0 | 0 |
| | | 100 | 0 | 17.84 | 17.76 | 17.80 | 0 | 0 |
| | 64QAM | 1 | 0 | 18.16 | 17.93 | 18.12 | 0 | 0 |
| | | 1 | 49 | 18.02 | 17.83 | 18.28 | 0 | 0 |
| | | 1 | 99 | 17.88 | 17.86 | 18.33 | 0 | 0 |
| | | 50 | 0 | 18.00 | 17.83 | 17.96 | 0 | 0 |
| | | 50 | 25 | 17.94 | 17.85 | 17.95 | 0 | 0 |
| | | 50 | 49 | 17.89 | 17.83 | 18.06 | 0 | 0 |
| | | 100 | 0 | 17.82 | 17.78 | 17.83 | 0 | 0 |

[LTE Band 30 Conducted Power]

LTE Band 30_5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 27685 Ch. 2307.5 MHz | 27710 Ch. 2310 MHz | 27735 Ch. 2312.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 19.49 | 19.46 | 19.51 | 0 | 0 |
| | | 1 | 12 | 19.59 | 19.62 | 19.59 | 0 | 0 |
| | | 1 | 24 | 19.53 | 19.42 | 19.39 | 0 | 0 |
| | | 12 | 0 | 19.66 | 19.64 | 19.62 | 0 | 0 |
| | | 12 | 6 | 19.70 | 19.62 | 19.69 | 0 | 0 |
| | | 12 | 11 | 19.68 | 19.63 | 19.64 | 0 | 0 |
| | | 25 | 0 | 19.62 | 19.56 | 19.61 | 0 | 0 |
| | 16QAM | 1 | 0 | 19.81 | 19.84 | 19.82 | 0 | 0 |
| | | 1 | 12 | 19.84 | 19.92 | 19.91 | 0 | 0 |
| | | 1 | 24 | 19.85 | 19.82 | 19.76 | 0 | 0 |
| | | 12 | 0 | 19.68 | 19.66 | 19.66 | 0 | 0 |
| | | 12 | 6 | 19.75 | 19.67 | 19.70 | 0 | 0 |
| | | 12 | 11 | 19.72 | 19.63 | 19.69 | 0 | 0 |
| | | 25 | 0 | 19.68 | 19.64 | 19.66 | 0 | 0 |
| | 64QAM | 1 | 0 | 19.76 | 19.79 | 19.86 | 0 | 0 |
| | | 1 | 12 | 19.87 | 19.91 | 19.90 | 0 | 0 |
| | | 1 | 24 | 19.93 | 19.78 | 19.70 | 0 | 0 |
| | | 12 | 0 | 19.34 | 19.33 | 19.33 | 0 | 0 |
| | | 12 | 6 | 19.40 | 19.34 | 19.36 | 0 | 0 |
| | | 12 | 11 | 19.36 | 19.28 | 19.26 | 0 | 0 |
| | | 25 | 0 | 19.31 | 19.24 | 19.25 | 0 | 0 |

LTE Band 30_10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|---------------------------|----------|
| | | | | 27710 Ch. 2310 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 19.52 | 0 | 0 |
| | | 1 | 24 | 19.59 | 0 | 0 |
| | | 1 | 49 | 19.53 | 0 | 0 |
| | | 25 | 0 | 19.58 | 0 | 0 |
| | | 25 | 12 | 19.61 | 0 | 0 |
| | | 25 | 24 | 19.51 | 0 | 0 |
| | | 50 | 0 | 19.53 | 0 | 0 |
| | 16QAM | 1 | 0 | 19.98 | 0 | 0 |
| | | 1 | 24 | 19.94 | 0 | 0 |
| | | 1 | 49 | 19.89 | 0 | 0 |
| | | 25 | 0 | 19.64 | 0 | 0 |
| | | 25 | 12 | 19.62 | 0 | 0 |
| | | 25 | 24 | 19.50 | 0 | 0 |
| | | 50 | 0 | 19.50 | 0 | 0 |
| | 64QAM | 1 | 0 | 19.84 | 0 | 0 |
| | | 1 | 24 | 19.81 | 0 | 0 |
| | | 1 | 49 | 19.79 | 0 | 0 |
| | | 25 | 0 | 19.23 | 0 | 0 |
| | | 25 | 12 | 19.27 | 0 | 0 |
| | | 25 | 24 | 19.13 | 0 | 0 |
| | | 50 | 0 | 19.18 | 0 | 0 |

[LTE TDD Band 38 Conducted Power]

LTE Band 38_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 3775 Ch. 2572.5 MHz | 38000 Ch. 2595 MHz | 38225 Ch. 2617.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 22.39 | 22.17 | 22.33 | 0 | 0 |
| | | 1 | 12 | 22.42 | 22.31 | 22.42 | 0 | 0 |
| | | 1 | 24 | 22.38 | 22.28 | 22.32 | 0 | 0 |
| | | 12 | 0 | 22.00 | 21.82 | 21.89 | 0-1 | 1 |
| | | 12 | 6 | 22.01 | 21.88 | 22.01 | 0-1 | 1 |
| | | 12 | 11 | 21.97 | 21.94 | 21.99 | 0-1 | 1 |
| | | 25 | 0 | 21.96 | 21.83 | 21.95 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 21.98 | 21.80 | 21.90 | 0-1 | 1 |
| | | 1 | 12 | 22.09 | 22.05 | 22.05 | 0-1 | 1 |
| | | 1 | 24 | 22.01 | 21.94 | 21.97 | 0-1 | 1 |
| | | 12 | 0 | 20.98 | 20.87 | 20.89 | 0-2 | 2 |
| | | 12 | 6 | 21.01 | 20.90 | 20.94 | 0-2 | 2 |
| | | 12 | 11 | 20.97 | 20.97 | 20.92 | 0-2 | 2 |
| | | 25 | 0 | 21.00 | 20.91 | 20.97 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 20.71 | 20.60 | 20.67 | 0-2 | 2 |
| | | 1 | 12 | 20.78 | 20.72 | 20.75 | 0-2 | 2 |
| | | 1 | 24 | 20.75 | 20.69 | 20.74 | 0-2 | 2 |
| | | 12 | 0 | 20.05 | 19.93 | 19.99 | 0-3 | 3 |
| | | 12 | 6 | 20.08 | 19.97 | 20.03 | 0-3 | 3 |
| | | 12 | 11 | 20.04 | 19.96 | 20.01 | 0-3 | 3 |
| 25 | | 0 | 20.06 | 19.95 | 20.01 | 0-3 | 3 | |

LTE Band 38_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|--------------------|---------------------------|----------|
| | | | | 37800 Ch. 2575 MHz | 38000 Ch. 2595 MHz | 38200 Ch. 2615 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 22.08 | 22.34 | 22.36 | 0 | 0 |
| | | 1 | 24 | 22.32 | 22.26 | 22.28 | 0 | 0 |
| | | 1 | 49 | 22.12 | 22.32 | 22.37 | 0 | 0 |
| | | 25 | 0 | 21.84 | 21.76 | 21.77 | 0-1 | 1 |
| | | 25 | 12 | 21.97 | 21.85 | 21.96 | 0-1 | 1 |
| | | 25 | 24 | 21.93 | 21.88 | 21.88 | 0-1 | 1 |
| | | 50 | 0 | 21.92 | 21.77 | 21.87 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 21.71 | 21.99 | 22.02 | 0-1 | 1 |
| | | 1 | 24 | 22.06 | 21.99 | 21.98 | 0-1 | 1 |
| | | 1 | 49 | 21.71 | 21.97 | 21.97 | 0-1 | 1 |
| | | 25 | 0 | 20.91 | 20.78 | 20.76 | 0-2 | 2 |
| | | 25 | 12 | 21.01 | 20.90 | 21.00 | 0-2 | 2 |
| | | 25 | 24 | 20.96 | 20.90 | 20.92 | 0-2 | 2 |
| | | 50 | 0 | 20.97 | 20.81 | 20.92 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 20.42 | 20.59 | 20.77 | 0-2 | 2 |
| | | 1 | 24 | 20.70 | 20.61 | 20.79 | 0-2 | 2 |
| | | 1 | 49 | 20.34 | 20.59 | 20.84 | 0-2 | 2 |
| | | 25 | 0 | 19.98 | 19.84 | 19.86 | 0-3 | 3 |
| | | 25 | 12 | 20.08 | 19.95 | 20.08 | 0-3 | 3 |
| | | 25 | 24 | 19.98 | 19.97 | 19.97 | 0-3 | 3 |
| 50 | | 0 | 19.95 | 19.82 | 19.92 | 0-3 | 3 | |

LTE Band 38 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|----------------------|---------------------------|----------|
| | | | | 37825 Ch. 2507.5 MHz | 38000 Ch. 2595 MHz | 38175 Ch. 2612.5 MHz | | |
| 15 MHz | QPSK | 1 | 0 | 22.40 | 22.36 | 22.39 | 0 | 0 |
| | | 1 | 36 | 22.33 | 22.41 | 22.37 | 0 | 0 |
| | | 1 | 74 | 22.32 | 22.37 | 22.37 | 0 | 0 |
| | | 36 | 0 | 21.94 | 21.80 | 21.81 | 0-1 | 1 |
| | | 36 | 18 | 21.90 | 21.88 | 21.89 | 0-1 | 1 |
| | | 36 | 39 | 21.85 | 21.86 | 21.91 | 0-1 | 1 |
| | | 75 | 0 | 21.85 | 21.79 | 21.82 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.04 | 22.01 | 22.00 | 0-1 | 1 |
| | | 1 | 36 | 21.97 | 21.94 | 21.96 | 0-1 | 1 |
| | | 1 | 74 | 21.98 | 21.97 | 22.03 | 0-1 | 1 |
| | | 36 | 0 | 20.88 | 20.75 | 20.75 | 0-2 | 2 |
| | | 36 | 18 | 20.87 | 20.86 | 20.88 | 0-2 | 2 |
| | | 36 | 39 | 20.83 | 20.85 | 20.87 | 0-2 | 2 |
| | | 75 | 0 | 20.86 | 20.82 | 20.87 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 20.83 | 20.65 | 20.62 | 0-2 | 2 |
| | | 1 | 36 | 20.79 | 20.72 | 20.75 | 0-2 | 2 |
| | | 1 | 74 | 20.64 | 20.68 | 20.77 | 0-2 | 2 |
| | | 36 | 0 | 19.96 | 19.82 | 19.84 | 0-3 | 3 |
| | | 36 | 18 | 19.95 | 19.90 | 19.93 | 0-3 | 3 |
| | | 36 | 39 | 19.87 | 19.88 | 19.92 | 0-3 | 3 |
| | | 75 | 0 | 19.87 | 19.83 | 19.86 | 0-3 | 3 |

LTE Band 38 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------------|----------|
| | | | | 38000 Ch. 2595 MHz | | |
| 20 MHz | QPSK | 1 | 0 | 22.33 | 0 | 0 |
| | | 1 | 49 | 22.32 | 0 | 0 |
| | | 1 | 99 | 22.29 | 0 | 0 |
| | | 50 | 0 | 21.75 | 0-1 | 1 |
| | | 50 | 25 | 21.87 | 0-1 | 1 |
| | | 50 | 49 | 21.87 | 0-1 | 1 |
| | | 100 | 0 | 21.74 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.01 | 0-1 | 1 |
| | | 1 | 49 | 21.98 | 0-1 | 1 |
| | | 1 | 99 | 21.99 | 0-1 | 1 |
| | | 50 | 0 | 20.80 | 0-2 | 2 |
| | | 50 | 25 | 20.89 | 0-2 | 2 |
| | | 50 | 49 | 20.88 | 0-2 | 2 |
| | | 100 | 0 | 20.81 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 20.67 | 0-2 | 2 |
| | | 1 | 49 | 20.74 | 0-2 | 2 |
| | | 1 | 99 | 20.73 | 0-2 | 2 |
| | | 50 | 0 | 19.79 | 0-3 | 3 |
| | | 50 | 25 | 19.91 | 0-3 | 3 |
| | | 50 | 49 | 19.91 | 0-3 | 3 |
| | | 100 | 0 | 19.80 | 0-3 | 3 |

[LTE Band 41 Conducted Power] -Power Class 3

LTE Band 41 _ 5 MHz Bandwidth - Power Class 3

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | | | MPR Allowed Per GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------|----------|
| | | | | 39675 Ch. 2498.5 MHz | 40148 Ch. 2545.8 MHz | 40620 Ch. 2593.0 MHz | 41093 Ch. 2640.3 MHz | 41565 Ch. 2687.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 22.60 | 22.54 | 22.37 | 22.25 | 22.27 | 0 | 0 |
| | | 1 | 12 | 22.58 | 22.57 | 22.34 | 22.27 | 22.24 | 0 | 0 |
| | | 1 | 24 | 22.59 | 22.52 | 22.32 | 22.23 | 22.21 | 0 | 0 |
| | | 12 | 0 | 22.63 | 22.58 | 22.45 | 22.28 | 22.35 | 0-1 | 1 |
| | | 12 | 6 | 22.65 | 22.63 | 22.46 | 22.33 | 22.38 | 0-1 | 1 |
| | | 12 | 11 | 22.67 | 22.61 | 22.41 | 22.34 | 22.38 | 0-1 | 1 |
| | | 25 | 0 | 22.65 | 22.59 | 22.39 | 22.29 | 22.39 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.70 | 22.63 | 22.50 | 22.34 | 22.45 | 0-1 | 1 |
| | | 1 | 12 | 22.74 | 22.79 | 22.54 | 22.47 | 22.50 | 0-1 | 1 |
| | | 1 | 24 | 22.74 | 22.68 | 22.49 | 22.39 | 22.40 | 0-1 | 1 |
| | | 12 | 0 | 21.66 | 21.58 | 21.39 | 21.30 | 21.38 | 0-2 | 2 |
| | | 12 | 6 | 21.64 | 21.65 | 21.47 | 21.31 | 21.41 | 0-2 | 2 |
| | | 12 | 11 | 21.64 | 21.62 | 21.39 | 21.34 | 21.37 | 0-2 | 2 |
| | | 25 | 0 | 21.68 | 21.62 | 21.47 | 21.33 | 21.39 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 21.38 | 21.45 | 21.15 | 21.06 | 21.16 | 0-2 | 2 |
| | | 1 | 12 | 21.41 | 21.46 | 21.18 | 21.10 | 21.19 | 0-2 | 2 |
| | | 1 | 24 | 21.42 | 21.35 | 21.16 | 21.08 | 21.16 | 0-2 | 2 |
| | | 12 | 0 | 20.70 | 20.68 | 20.50 | 20.33 | 20.47 | 0-3 | 3 |
| | | 12 | 6 | 20.69 | 20.67 | 20.51 | 20.37 | 20.49 | 0-3 | 3 |
| | | 12 | 11 | 20.71 | 20.65 | 20.48 | 20.39 | 20.45 | 0-3 | 3 |
| | | 25 | 0 | 20.68 | 20.70 | 20.49 | 20.36 | 20.47 | 0-3 | 3 |

LTE Band 41 _ 10 MHz Bandwidth - Power Class 3

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------------|----------|
| | | | | 39700 Ch. 2501 MHz | 40160 Ch. 2547 MHz | 40620 Ch. 2593 MHz | 41080 Ch. 2639 MHz | 41540 Ch. 2685 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 22.56 | 22.23 | 22.04 | 22.10 | 22.11 | 0 | 0 |
| | | 1 | 24 | 22.48 | 22.43 | 22.26 | 22.40 | 22.26 | 0 | 0 |
| | | 1 | 49 | 22.53 | 22.20 | 22.07 | 22.05 | 22.09 | 0 | 0 |
| | | 25 | 0 | 22.65 | 22.55 | 22.36 | 22.22 | 22.23 | 0-1 | 1 |
| | | 25 | 12 | 22.67 | 22.61 | 22.46 | 22.39 | 22.30 | 0-1 | 1 |
| | | 25 | 24 | 22.62 | 22.51 | 22.31 | 22.25 | 22.28 | 0-1 | 1 |
| | | 50 | 0 | 22.59 | 22.51 | 22.37 | 22.32 | 22.22 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.66 | 22.44 | 22.21 | 22.14 | 22.20 | 0-1 | 1 |
| | | 1 | 24 | 22.64 | 22.65 | 22.47 | 22.36 | 22.44 | 0-1 | 1 |
| | | 1 | 49 | 22.65 | 22.36 | 22.17 | 22.14 | 22.12 | 0-1 | 1 |
| | | 25 | 0 | 21.65 | 21.57 | 21.36 | 21.19 | 21.21 | 0-2 | 2 |
| | | 25 | 12 | 21.69 | 21.64 | 21.45 | 21.39 | 21.35 | 0-2 | 2 |
| | | 25 | 24 | 21.66 | 21.53 | 21.34 | 21.27 | 21.32 | 0-2 | 2 |
| | | 50 | 0 | 21.63 | 21.55 | 21.37 | 21.34 | 21.24 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 21.34 | 21.04 | 20.87 | 20.71 | 20.81 | 0-2 | 2 |
| | | 1 | 24 | 21.36 | 21.28 | 21.13 | 21.06 | 21.13 | 0-2 | 2 |
| | | 1 | 49 | 21.32 | 21.00 | 20.86 | 20.74 | 20.80 | 0-2 | 2 |
| | | 25 | 0 | 20.70 | 20.64 | 20.41 | 20.26 | 20.33 | 0-3 | 3 |
| | | 25 | 12 | 20.74 | 20.74 | 20.52 | 20.40 | 20.43 | 0-3 | 3 |
| | | 25 | 24 | 20.72 | 20.66 | 20.41 | 20.31 | 20.39 | 0-3 | 3 |
| | | 50 | 0 | 20.63 | 20.59 | 20.40 | 20.24 | 20.29 | 0-3 | 3 |

LTE Band 41 _ 15 MHz Bandwidth - Power Class 3

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 39725 Ch. 2503.5 MHz | 40173 Ch. 2548.3 MHz | 40620 Ch. 2593.0 MHz | 41068 Ch. 2637.8 MHz | 41515 Ch. 2682.5 MHz | | |
| 15 MHz | QPSK | 1 | 0 | 22.54 | 22.34 | 22.19 | 22.24 | 22.05 | 0 | 0 |
| | | 1 | 36 | 22.53 | 22.46 | 22.33 | 22.18 | 22.19 | 0 | 0 |
| | | 1 | 74 | 22.55 | 22.21 | 22.20 | 22.12 | 22.15 | 0 | 0 |
| | | 36 | 0 | 22.59 | 22.45 | 22.33 | 22.20 | 22.18 | 0-1 | 1 |
| | | 36 | 18 | 22.59 | 22.53 | 22.38 | 22.33 | 22.35 | 0-1 | 1 |
| | | 36 | 39 | 22.58 | 22.36 | 22.34 | 22.22 | 22.34 | 0-1 | 1 |
| | | 75 | 0 | 22.53 | 22.37 | 22.33 | 22.26 | 22.31 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.62 | 22.41 | 22.24 | 22.19 | 22.10 | 0-1 | 1 |
| | | 1 | 36 | 22.55 | 22.52 | 22.33 | 22.30 | 22.32 | 0-1 | 1 |
| | | 1 | 74 | 22.63 | 22.31 | 22.25 | 22.13 | 22.37 | 0-1 | 1 |
| | | 36 | 0 | 21.58 | 21.43 | 21.26 | 21.18 | 21.13 | 0-2 | 2 |
| | | 36 | 18 | 21.57 | 21.52 | 21.35 | 21.29 | 21.32 | 0-2 | 2 |
| | | 36 | 39 | 21.53 | 21.33 | 21.33 | 21.20 | 21.33 | 0-2 | 2 |
| | | 75 | 0 | 21.59 | 21.42 | 21.37 | 21.29 | 21.32 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 21.34 | 21.15 | 20.92 | 20.90 | 20.79 | 0-2 | 2 |
| | | 1 | 36 | 21.32 | 21.30 | 21.11 | 21.04 | 21.12 | 0-2 | 2 |
| | | 1 | 74 | 21.33 | 20.97 | 20.95 | 20.85 | 21.10 | 0-2 | 2 |
| | | 36 | 0 | 20.64 | 20.51 | 20.34 | 20.22 | 20.22 | 0-3 | 3 |
| | | 36 | 18 | 20.62 | 20.56 | 20.42 | 20.31 | 20.38 | 0-3 | 3 |
| | | 36 | 39 | 20.63 | 20.37 | 20.35 | 20.23 | 20.38 | 0-3 | 3 |
| | | 75 | 0 | 20.59 | 20.42 | 20.37 | 20.30 | 20.34 | 0-3 | 3 |

LTE Band 41 _ 20 MHz Bandwidth - Power Class 3

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------------|----------|
| | | | | 39750 Ch. 2506.0 MHz | 40185 Ch. 2549.5 MHz | 40620 Ch. 2593.0 MHz | 41055 Ch. 2636.5 MHz | 41490 Ch. 2680.0 MHz | | |
| 20 MHz | QPSK | 1 | 0 | 22.47 | 22.48 | 22.02 | 22.94 | 22.01 | 0 | 0 |
| | | 1 | 49 | 22.48 | 22.44 | 22.33 | 23.17 | 22.17 | 0 | 0 |
| | | 1 | 99 | 22.45 | 22.40 | 22.06 | 22.72 | 22.07 | 0 | 0 |
| | | 50 | 0 | 22.58 | 22.50 | 22.27 | 22.18 | 22.11 | 0-1 | 1 |
| | | 50 | 25 | 22.61 | 22.45 | 22.40 | 22.23 | 22.26 | 0-1 | 1 |
| | | 50 | 49 | 22.58 | 22.38 | 22.32 | 22.17 | 22.31 | 0-1 | 1 |
| | | 100 | 0 | 22.53 | 22.34 | 22.30 | 22.12 | 22.16 | 0-1 | 1 |
| | 16QAM | 1 | 0 | 22.64 | 22.58 | 22.09 | 22.08 | 21.97 | 0-1 | 1 |
| | | 1 | 49 | 22.62 | 22.54 | 22.38 | 22.30 | 22.32 | 0-1 | 1 |
| | | 1 | 99 | 22.60 | 22.52 | 22.07 | 21.89 | 22.26 | 0-1 | 1 |
| | | 50 | 0 | 21.62 | 21.52 | 21.30 | 21.23 | 21.11 | 0-2 | 2 |
| | | 50 | 25 | 21.65 | 21.47 | 21.41 | 21.26 | 21.28 | 0-2 | 2 |
| | | 50 | 49 | 21.63 | 21.42 | 21.35 | 21.21 | 21.34 | 0-2 | 2 |
| | | 100 | 0 | 21.55 | 21.34 | 21.34 | 21.18 | 21.22 | 0-2 | 2 |
| | 64QAM | 1 | 0 | 21.37 | 21.31 | 20.79 | 20.71 | 20.62 | 0-2 | 2 |
| | | 1 | 49 | 21.36 | 21.33 | 21.10 | 21.06 | 21.04 | 0-2 | 2 |
| | | 1 | 99 | 21.33 | 21.20 | 20.78 | 20.59 | 20.98 | 0-2 | 2 |
| | | 50 | 0 | 20.63 | 20.56 | 20.31 | 20.23 | 20.13 | 0-3 | 3 |
| | | 50 | 25 | 20.65 | 20.48 | 20.42 | 20.28 | 20.29 | 0-3 | 3 |
| | | 50 | 49 | 20.61 | 20.45 | 20.37 | 20.20 | 20.35 | 0-3 | 3 |
| | | 100 | 0 | 20.55 | 20.40 | 20.35 | 20.17 | 20.21 | 0-3 | 3 |

Note; LTE Band 41 has 5 required test channels per FCC KDB 447498 D01v06.

[LTE Band 66 Conducted Power]

LTE Band 66 _ 1.4 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|---------------------|-----------------------|---------------------------|----------|
| | | | | 131979Ch. 1710.7 MHz | 132322 Ch. 1745 MHz | 132665 Ch. 1779.3 MHz | | |
| 1.4 MHz | QPSK | 1 | 0 | 18.09 | 18.09 | 18.12 | 0 | 0 |
| | | 1 | 3 | 18.14 | 18.15 | 18.10 | 0 | 0 |
| | | 1 | 5 | 18.07 | 18.06 | 18.05 | 0 | 0 |
| | | 3 | 0 | 18.05 | 18.08 | 18.16 | 0 | 0 |
| | | 3 | 1 | 18.14 | 18.16 | 18.19 | 0 | 0 |
| | | 3 | 3 | 18.04 | 18.10 | 18.09 | 0 | 0 |
| | 16QAM | 6 | 0 | 18.14 | 18.20 | 18.20 | 0 | 0 |
| | | 1 | 0 | 18.25 | 18.65 | 18.73 | 0 | 0 |
| | | 1 | 3 | 18.26 | 18.70 | 18.71 | 0 | 0 |
| | | 1 | 5 | 18.16 | 18.65 | 18.63 | 0 | 0 |
| | | 3 | 0 | 18.22 | 18.11 | 18.28 | 0 | 0 |
| | | 3 | 1 | 18.25 | 18.18 | 18.35 | 0 | 0 |
| | 64QAM | 3 | 3 | 18.18 | 18.11 | 18.26 | 0 | 0 |
| | | 6 | 0 | 18.26 | 18.27 | 18.37 | 0 | 0 |
| | | 1 | 0 | 18.38 | 18.25 | 18.54 | 0 | 0 |
| | | 1 | 3 | 18.46 | 18.38 | 18.53 | 0 | 0 |
| | | 1 | 5 | 18.36 | 18.28 | 18.39 | 0 | 0 |
| | | 3 | 0 | 18.23 | 18.42 | 18.40 | 0 | 0 |
| | 64QAM | 3 | 1 | 18.27 | 18.51 | 18.44 | 0 | 0 |
| | | 3 | 3 | 18.20 | 18.43 | 18.32 | 0 | 0 |
| | | 6 | 0 | 18.30 | 18.20 | 18.23 | 0 | 0 |

LTE Band 66 _ 3 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|-----------------------|---------------------|-----------------------|---------------------------|----------|
| | | | | 131987 Ch. 1711.5 MHz | 132322 Ch. 1745 MHz | 132657 Ch. 1778.5 MHz | | |
| 3 MHz | QPSK | 1 | 0 | 18.13 | 18.11 | 18.27 | 0 | 0 |
| | | 1 | 7 | 18.15 | 18.16 | 18.22 | 0 | 0 |
| | | 1 | 14 | 18.07 | 18.03 | 18.14 | 0 | 0 |
| | | 8 | 0 | 18.22 | 18.24 | 18.26 | 0 | 0 |
| | | 8 | 3 | 18.24 | 18.27 | 18.30 | 0 | 0 |
| | | 8 | 7 | 18.20 | 18.23 | 18.22 | 0 | 0 |
| | | 15 | 0 | 18.22 | 18.21 | 18.27 | 0 | 0 |
| | 16QAM | 1 | 0 | 18.34 | 18.74 | 18.69 | 0 | 0 |
| | | 1 | 7 | 18.35 | 18.69 | 18.63 | 0 | 0 |
| | | 1 | 14 | 18.37 | 18.66 | 18.52 | 0 | 0 |
| | | 8 | 0 | 18.20 | 18.37 | 18.32 | 0 | 0 |
| | | 8 | 3 | 18.20 | 18.36 | 18.40 | 0 | 0 |
| | | 8 | 7 | 18.14 | 18.32 | 18.30 | 0 | 0 |
| | 64QAM | 15 | 0 | 18.28 | 18.23 | 18.22 | 0 | 0 |
| | | 1 | 0 | 18.28 | 18.44 | 18.67 | 0 | 0 |
| | | 1 | 7 | 18.31 | 18.46 | 18.64 | 0 | 0 |
| | | 1 | 14 | 18.25 | 18.42 | 18.56 | 0 | 0 |
| | | 8 | 0 | 18.28 | 18.29 | 18.35 | 0 | 0 |
| | | 8 | 3 | 18.31 | 18.34 | 18.42 | 0 | 0 |
| | | 8 | 7 | 18.19 | 18.34 | 18.30 | 0 | 0 |
| | 15 | 0 | 18.20 | 18.23 | 18.37 | 0 | 0 | |

LTE Band 66 _ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|-----------------------|--------------------|-----------------------|---------------------------|----------|
| | | | | 131997 Ch. 1712.5 MHz | 132322Ch. 1745 MHz | 132647 Ch. 1777.5 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 18.10 | 18.15 | 18.21 | 0 | 0 |
| | | 1 | 12 | 18.18 | 18.22 | 18.19 | 0 | 0 |
| | | 1 | 24 | 18.06 | 18.14 | 18.02 | 0 | 0 |
| | | 12 | 0 | 18.22 | 18.27 | 18.27 | 0 | 0 |
| | | 12 | 6 | 18.27 | 18.28 | 18.33 | 0 | 0 |
| | | 12 | 11 | 18.18 | 18.29 | 18.24 | 0 | 0 |
| | 16QAM | 25 | 0 | 18.21 | 18.25 | 18.27 | 0 | 0 |
| | | 1 | 0 | 18.28 | 18.39 | 18.25 | 0 | 0 |
| | | 1 | 12 | 18.32 | 18.39 | 18.28 | 0 | 0 |
| | | 1 | 24 | 18.22 | 18.33 | 18.16 | 0 | 0 |
| | | 12 | 0 | 18.24 | 18.31 | 18.31 | 0 | 0 |
| | | 12 | 6 | 18.30 | 18.28 | 18.34 | 0 | 0 |
| | 64QAM | 12 | 11 | 18.25 | 18.27 | 18.27 | 0 | 0 |
| | | 25 | 0 | 18.23 | 18.19 | 18.32 | 0 | 0 |
| | | 1 | 0 | 18.50 | 18.54 | 18.25 | 0 | 0 |
| | | 1 | 12 | 18.54 | 18.57 | 18.30 | 0 | 0 |
| | | 1 | 24 | 18.41 | 18.48 | 18.21 | 0 | 0 |
| | | 12 | 0 | 18.35 | 18.37 | 18.28 | 0 | 0 |
| | | 12 | 6 | 18.37 | 18.39 | 18.35 | 0 | 0 |
| | | 12 | 11 | 18.31 | 18.37 | 18.25 | 0 | 0 |
| | | 25 | 0 | 18.16 | 18.21 | 18.31 | 0 | 0 |

LTE Band 66 _ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|---------------------|---------------------|---------------------------|----------|
| | | | | 132022 Ch. 1715 MHz | 132322 Ch. 1745 MHz | 132622 Ch. 1775 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 17.89 | 18.00 | 18.08 | 0 | 0 |
| | | 1 | 24 | 18.10 | 18.18 | 18.19 | 0 | 0 |
| | | 1 | 49 | 17.80 | 17.91 | 17.84 | 0 | 0 |
| | | 25 | 0 | 18.13 | 18.19 | 18.26 | 0 | 0 |
| | | 25 | 12 | 18.23 | 18.21 | 18.34 | 0 | 0 |
| | | 25 | 24 | 18.11 | 18.22 | 18.18 | 0 | 0 |
| | 16QAM | 50 | 0 | 18.15 | 18.16 | 18.27 | 0 | 0 |
| | | 1 | 0 | 18.43 | 18.23 | 18.64 | 0 | 0 |
| | | 1 | 24 | 18.66 | 18.49 | 18.81 | 0 | 0 |
| | | 1 | 49 | 18.35 | 18.24 | 18.43 | 0 | 0 |
| | | 25 | 0 | 18.15 | 18.23 | 18.29 | 0 | 0 |
| | | 25 | 12 | 18.24 | 18.25 | 18.41 | 0 | 0 |
| | 64QAM | 25 | 24 | 18.09 | 18.20 | 18.24 | 0 | 0 |
| | | 50 | 0 | 18.11 | 18.17 | 18.29 | 0 | 0 |
| | | 1 | 0 | 18.19 | 18.06 | 18.10 | 0 | 0 |
| | | 1 | 24 | 18.45 | 18.40 | 18.37 | 0 | 0 |
| | | 1 | 49 | 18.14 | 18.13 | 18.06 | 0 | 0 |
| | | 25 | 0 | 18.16 | 18.17 | 18.35 | 0 | 0 |
| | | 25 | 12 | 18.30 | 18.24 | 18.44 | 0 | 0 |
| | | 25 | 24 | 18.15 | 18.20 | 18.28 | 0 | 0 |
| | | 50 | 0 | 18.23 | 18.19 | 18.32 | 0 | 0 |

LTE Band 66 _ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|-----------------------|---------------------|-----------------------|---------------------------|----------|
| | | | | 132047 Ch. 1717.5 MHz | 132322 Ch. 1745 MHz | 132597 Ch. 1772.5 MHz | | |
| 15 MHz | QPSK | 1 | 0 | 18.02 | 18.15 | 18.28 | 0 | 0 |
| | | 1 | 36 | 18.05 | 18.18 | 18.17 | 0 | 0 |
| | | 1 | 74 | 17.88 | 17.91 | 17.96 | 0 | 0 |
| | | 36 | 0 | 18.14 | 18.23 | 18.30 | 0 | 0 |
| | | 36 | 18 | 18.18 | 18.21 | 18.35 | 0 | 0 |
| | | 36 | 39 | 18.05 | 18.19 | 18.19 | 0 | 0 |
| | | 75 | 0 | 18.13 | 18.19 | 18.28 | 0 | 0 |
| | 16QAM | 1 | 0 | 18.37 | 18.19 | 18.80 | 0 | 0 |
| | | 1 | 36 | 18.44 | 18.35 | 18.71 | 0 | 0 |
| | | 1 | 74 | 18.26 | 18.19 | 18.57 | 0 | 0 |
| | | 36 | 0 | 18.16 | 18.23 | 18.27 | 0 | 0 |
| | | 36 | 18 | 18.21 | 18.21 | 18.32 | 0 | 0 |
| | | 36 | 39 | 18.07 | 18.21 | 18.16 | 0 | 0 |
| | | 75 | 0 | 18.15 | 18.13 | 18.25 | 0 | 0 |
| | 64QAM | 1 | 0 | 18.38 | 18.38 | 18.52 | 0 | 0 |
| | | 1 | 36 | 18.46 | 18.55 | 18.43 | 0 | 0 |
| | | 1 | 74 | 18.28 | 18.29 | 18.23 | 0 | 0 |
| | | 36 | 0 | 18.18 | 18.31 | 18.33 | 0 | 0 |
| | | 36 | 18 | 18.20 | 18.25 | 18.38 | 0 | 0 |
| | | 36 | 39 | 18.05 | 18.26 | 18.23 | 0 | 0 |
| | | 75 | 0 | 18.14 | 18.14 | 18.25 | 0 | 0 |

LTE Band 66 _ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|---------------------|---------------------|---------------------------|----------|
| | | | | 132072 Ch. 1720 MHz | 132322 Ch. 1745 MHz | 132572 Ch. 1770 MHz | | |
| 20 MHz | QPSK | 1 | 0 | 17.76 | 17.90 | 18.19 | 0 | 0 |
| | | 1 | 49 | 17.93 | 18.11 | 18.30 | 0 | 0 |
| | | 1 | 99 | 17.55 | 17.82 | 18.01 | 0 | 0 |
| | | 50 | 0 | 18.10 | 18.21 | 18.25 | 0 | 0 |
| | | 50 | 25 | 18.18 | 18.24 | 18.39 | 0 | 0 |
| | | 50 | 49 | 17.98 | 18.17 | 18.20 | 0 | 0 |
| | | 100 | 0 | 18.07 | 18.14 | 18.28 | 0 | 0 |
| | 16QAM | 1 | 0 | 17.90 | 18.42 | 18.59 | 0 | 0 |
| | | 1 | 49 | 18.09 | 18.69 | 18.41 | 0 | 0 |
| | | 1 | 99 | 17.91 | 18.45 | 18.34 | 0 | 0 |
| | | 50 | 0 | 18.09 | 18.17 | 18.24 | 0 | 0 |
| | | 50 | 25 | 18.15 | 18.19 | 18.32 | 0 | 0 |
| | | 50 | 49 | 18.01 | 18.16 | 18.18 | 0 | 0 |
| | | 100 | 0 | 18.10 | 18.13 | 18.25 | 0 | 0 |
| | 64QAM | 1 | 0 | 17.88 | 18.10 | 18.57 | 0 | 0 |
| | | 1 | 49 | 18.08 | 18.47 | 18.53 | 0 | 0 |
| | | 1 | 99 | 17.84 | 18.26 | 18.38 | 0 | 0 |
| | | 50 | 0 | 18.12 | 18.19 | 18.33 | 0 | 0 |
| | | 50 | 25 | 18.20 | 18.23 | 18.39 | 0 | 0 |
| | | 50 | 49 | 18.03 | 18.16 | 18.23 | 0 | 0 |
| | | 100 | 0 | 18.12 | 18.10 | 18.27 | 0 | 0 |

The EUT enables maximum power reduction in accordance with 3GPP 36.101. The MPR settings are configured during the manufacture process and are not configurable by the network, carrier, or end user.

11.5 NR Maximum Output Power

11.5.1 NR Band Maximum Conducted Power

DSI = 0,2 PLimit Calculations – NR Body-Worn, Phablet Max, Head SAR

[NR Band n2 Conducted Power DSI = 0,2]

NR Band n2_ 5 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|------------|----------|
| | | | | | | 370500 | 376000 | 381500 | |
| | | | | | | 1852.5 MHz | 1880 MHz | 1907.5 MHz | |
| 5 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 24.12 | 23.68 | 23.89 | 0 |
| | | | | 1 | 13 | 24.13 | 23.69 | 23.98 | 0 |
| | | | | 1 | 23 | 24.13 | 23.73 | 23.99 | 0 |
| | | | | 12 | 0 | 23.59 | 23.22 | 23.48 | 1 |
| | | | | 12 | 7 | 24.11 | 23.71 | 23.90 | 0 |
| | | | | 12 | 13 | 23.70 | 23.28 | 23.50 | 1 |
| | | | 25 | 0 | 23.66 | 23.24 | 23.50 | 1 | |
| | | | QPSK | 1 | 1 | 24.01 | 23.56 | 23.77 | 0 |
| | | | | 1 | 13 | 24.03 | 23.53 | 23.81 | 0 |
| | | | | 1 | 23 | 24.04 | 23.58 | 23.87 | 0 |
| | | | | 12 | 0 | 23.21 | 22.68 | 22.94 | 1 |
| | | | | 12 | 7 | 24.08 | 23.61 | 23.86 | 0 |
| | | | | 12 | 13 | 23.19 | 22.71 | 22.99 | 1 |
| | | | 25 | 0 | 23.16 | 22.76 | 23.00 | 1 | |
| | | | 16QAM | 1 | 1 | 23.39 | 22.93 | 23.18 | 1 |
| CP | QPSK | 1 | 1 | 22.63 | 22.19 | 22.37 | 1.5 | | |

NR Band n2_ 10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|----------|----------|
| | | | | | | 371000 | 376000 | 381000 | |
| | | | | | | 1855 MHz | 1880 MHz | 1905 MHz | |
| 10 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 24.12 | 23.85 | 23.87 | 0 |
| | | | | 1 | 26 | 24.53 | 24.19 | 24.28 | 0 |
| | | | | 1 | 50 | 23.87 | 23.71 | 24.04 | 0 |
| | | | | 25 | 0 | 23.79 | 23.34 | 23.45 | 1 |
| | | | | 25 | 14 | 24.18 | 23.72 | 23.92 | 0 |
| | | | | 25 | 27 | 23.79 | 23.32 | 23.60 | 1 |
| | | | 50 | 0 | 23.72 | 23.35 | 23.56 | 1 | |
| | | | QPSK | 1 | 1 | 24.16 | 23.69 | 23.73 | 0 |
| | | | | 1 | 26 | 24.10 | 23.65 | 23.86 | 0 |
| | | | | 1 | 50 | 24.06 | 23.63 | 23.91 | 0 |
| | | | | 25 | 0 | 23.28 | 22.82 | 22.99 | 1 |
| | | | | 25 | 14 | 24.06 | 23.70 | 23.92 | 0 |
| | | | | 25 | 27 | 23.23 | 22.79 | 23.09 | 1 |
| | | | 50 | 0 | 23.24 | 22.93 | 23.00 | 1 | |
| | | | 16QAM | 1 | 1 | 23.56 | 23.01 | 23.15 | 1 |
| CP | QPSK | 1 | 1 | 22.84 | 22.28 | 22.44 | 1.5 | | |

NR Band n2 _ 15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR [dB] | |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|------------|----------|-----|
| | | | | | | 371500 | 376000 | 380500 | | |
| | | | | | | 1857.5 MHz | 1880 MHz | 1902.5 MHz | | |
| 15 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 24.08 | 23.85 | 23.76 | 0 | |
| | | | | 1 | 40 | 24.01 | 23.82 | 23.96 | 0 | |
| | | | | 1 | 77 | 23.94 | 23.78 | 24.08 | 0 | |
| | | | | 36 | 0 | 23.55 | 23.38 | 23.34 | 1 | |
| | | | | 36 | 22 | 23.90 | 23.47 | 23.82 | 0 | |
| | | | | 36 | 43 | 23.38 | 23.39 | 23.48 | 1 | |
| | | | | 75 | 0 | 23.53 | 23.35 | 23.42 | 1 | |
| | | | QPSK | 1 | 1 | 23.84 | 23.70 | 23.64 | 0 | |
| | | | | 1 | 40 | 23.84 | 23.62 | 23.69 | 0 | |
| | | | | 1 | 77 | 23.65 | 23.59 | 23.89 | 0 | |
| | | | | 36 | 0 | 23.06 | 22.85 | 22.86 | 1 | |
| | | | | 36 | 22 | 23.89 | 23.72 | 23.82 | 0 | |
| | | | | 36 | 43 | 22.99 | 22.82 | 23.00 | 1 | |
| | | | | 75 | 0 | 23.05 | 22.83 | 22.94 | 1 | |
| | | | 16QAM | 1 | 1 | 23.23 | 23.02 | 23.07 | 1 | |
| | | | CP | QPSK | 1 | 1 | 22.62 | 22.39 | 22.38 | 1.5 |

NR Band n2 _ 20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR [dB] | |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|----------|----------|-----|
| | | | | | | 372000 | 376000 | 380000 | | |
| | | | | | | 1860 MHz | 1880 MHz | 1900 MHz | | |
| 20 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 24.02 | 23.90 | 23.63 | 0 | |
| | | | | 1 | 53 | 24.35 | 24.13 | 24.31 | 0 | |
| | | | | 1 | 104 | 23.79 | 23.81 | 24.05 | 0 | |
| | | | | 50 | 0 | 23.60 | 23.33 | 23.38 | 1 | |
| | | | | 50 | 28 | 23.92 | 23.74 | 23.84 | 0 | |
| | | | | 50 | 56 | 23.46 | 23.28 | 23.49 | 1 | |
| | | | | 100 | 0 | 23.50 | 23.30 | 23.38 | 1 | |
| | | | QPSK | 1 | 1 | 23.94 | 23.74 | 23.55 | 0 | |
| | | | | 1 | 53 | 23.83 | 23.65 | 23.66 | 0 | |
| | | | | 1 | 104 | 23.61 | 23.66 | 23.55 | 0 | |
| | | | | 50 | 0 | 23.06 | 22.81 | 22.82 | 1 | |
| | | | | 50 | 28 | 23.92 | 23.74 | 23.82 | 0 | |
| | | | | 50 | 56 | 22.95 | 22.81 | 22.95 | 1 | |
| | | | | 100 | 0 | 23.05 | 22.85 | 22.94 | 1 | |
| | | | 16QAM | 1 | 1 | 23.32 | 23.07 | 22.87 | 1 | |
| | | | CP | QPSK | 1 | 1 | 22.61 | 22.33 | 22.15 | 1.5 |

[NR Band n5 Conducted Power DSI = 0,1,2,3,4]

NR Band n5 _ 5 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|-----------|-----------|----------|
| | | | | | | 165300 | 167300 | 169300 | |
| | | | | | | 826.5 MHz | 836.5 MHz | 846.5 MHz | |
| 5 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 24.47 | 24.71 | 24.81 | 0 |
| | | | | 1 | 13 | 24.52 | 24.62 | 24.67 | 0 |
| | | | | 1 | 23 | 24.46 | 24.57 | 24.64 | 0 |
| | | | | 12 | 0 | 24.05 | 24.19 | 24.29 | 1 |
| | | | | 12 | 7 | 24.41 | 24.54 | 24.59 | 0 |
| | | | | 12 | 13 | 24.01 | 24.07 | 24.15 | 1 |
| | | | 25 | 0 | 24.04 | 24.20 | 24.31 | 1 | |
| | | | QPSK | 1 | 1 | 24.43 | 24.58 | 24.64 | 0 |
| | | | | 1 | 13 | 24.33 | 24.44 | 24.52 | 0 |
| | | | | 1 | 23 | 24.38 | 24.35 | 24.52 | 0 |
| | | | | 12 | 0 | 23.53 | 23.69 | 23.80 | 1 |
| | | | | 12 | 7 | 24.41 | 24.52 | 24.62 | 0 |
| | | | | 12 | 13 | 23.45 | 23.60 | 23.68 | 1 |
| | | | 25 | 0 | 23.48 | 23.62 | 23.77 | 1 | |
| | | | 16QAM | 1 | 1 | 23.85 | 23.99 | 24.13 | 1 |
| | | CP | QPSK | 1 | 1 | 23.12 | 23.27 | 23.34 | 1.5 |

NR Band n5 _ 10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|-------|---------|----------|
| | | | | | | 165800 | | 168800 | |
| | | | | | | 829 MHz | | 844 MHz | |
| 10 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 24.49 | | 24.68 | 0 |
| | | | | 1 | 26 | 24.87 | | 25.07 | 0 |
| | | | | 1 | 50 | 24.49 | | 24.56 | 0 |
| | | | | 25 | 0 | 24.12 | | 24.25 | 1 |
| | | | | 25 | 14 | 24.49 | | 24.57 | 0 |
| | | | | 25 | 27 | 24.04 | | 24.10 | 1 |
| | | | 50 | 0 | 24.10 | | 24.20 | 1 | |
| | | | QPSK | 1 | 1 | 24.40 | | 24.55 | 0 |
| | | | | 1 | 26 | 24.52 | | 24.46 | 0 |
| | | | | 1 | 50 | 24.37 | | 24.39 | 0 |
| | | | | 25 | 0 | 23.65 | | 23.71 | 1 |
| | | | | 25 | 14 | 24.46 | | 24.56 | 0 |
| | | | | 25 | 27 | 23.57 | | 23.61 | 1 |
| | | | 50 | 0 | 23.56 | | 23.66 | 1 | |
| | | | 16QAM | 1 | 1 | 23.79 | | 23.91 | 1 |
| | | CP | QPSK | 1 | 1 | 23.05 | | 23.21 | 1.5 |

NR Band n5 _ 15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|-----------|----------|
| | | | | | | 167300 | 836.5 MHz | |
| 15 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | | 24.67 | 0 |
| | | | | 1 | 40 | | 24.65 | 0 |
| | | | | 1 | 77 | | 24.62 | 0 |
| | | | | 36 | 0 | | 24.22 | 1 |
| | | | | 36 | 22 | | 24.56 | 0 |
| | | | | 36 | 43 | | 24.11 | 1 |
| | | | | 75 | 0 | | 24.18 | 1 |
| | | | QPSK | 1 | 1 | | 24.56 | 0 |
| | | | | 1 | 40 | | 24.48 | 0 |
| | | | | 1 | 77 | | 24.48 | 0 |
| | | | | 36 | 0 | | 23.73 | 1 |
| | | | | 36 | 22 | | 24.58 | 0 |
| | | | | 36 | 43 | | 23.56 | 1 |
| | | | | 75 | 0 | | 23.68 | 1 |
| 16QAM | 1 | 1 | | 24.06 | 1 | | | |
| CP | QPSK | 1 | 1 | | 23.37 | 1.5 | | |

NR Band n5 _ 20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | MPR [dB] | |
|-----------|----------|------------|------------|---------|-----------|---------------------|-----------|----------|-----|
| | | | | | | 167300 | 836.5 MHz | | |
| 20 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | | 24.73 | 0 | |
| | | | | 1 | 53 | | 25.01 | 0 | |
| | | | | 1 | 104 | | 24.55 | 0 | |
| | | | | 50 | 0 | | 24.24 | 1 | |
| | | | | 50 | 28 | | 24.59 | 0 | |
| | | | | 50 | 56 | | 24.13 | 1 | |
| | | | | 100 | 0 | | 24.15 | 1 | |
| | | | QPSK | 1 | 1 | | 24.59 | 0 | |
| | | | | 1 | 53 | | 24.46 | 0 | |
| | | | | 1 | 104 | | 24.33 | 0 | |
| | | | | 50 | 0 | | 23.79 | 1 | |
| | | | | 50 | 28 | | 24.57 | 0 | |
| | | | | 50 | 56 | | 23.66 | 1 | |
| | | | | 100 | 0 | | 23.69 | 1 | |
| | | | | 16QAM | 1 | 1 | | 23.99 | 1 |
| | | | CP | QPSK | 1 | 1 | | 23.31 | 1.5 |

[NR Band n25 Conducted Power DSI=0,2]

NR Band n25 _ 5 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|------------|----------|
| | | | | | | 370500 | 376500 | 382500 | |
| | | | | | | 1852.5 MHz | 1882.5 MHz | 1912.5 MHz | |
| 5 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 24.32 | 23.76 | 24.33 | 0 |
| | | | | 1 | 13 | 24.36 | 23.74 | 24.38 | 0 |
| | | | | 1 | 23 | 24.30 | 23.79 | 24.19 | 0 |
| | | | | 12 | 0 | 23.77 | 23.26 | 23.77 | 1 |
| | | | | 12 | 7 | 24.34 | 23.67 | 24.29 | 0 |
| | | | | 12 | 13 | 23.82 | 23.37 | 23.71 | 1 |
| | | | 25 | 0 | 23.86 | 23.26 | 23.69 | 1 | |
| | | | QPSK | 1 | 1 | 24.13 | 23.61 | 24.00 | 0 |
| | | | | 1 | 13 | 24.19 | 23.61 | 24.12 | 0 |
| | | | | 1 | 23 | 24.19 | 23.64 | 24.17 | 0 |
| | | | | 12 | 0 | 23.31 | 22.68 | 23.18 | 1 |
| | | | | 12 | 7 | 24.25 | 23.67 | 24.17 | 0 |
| | | | | 12 | 13 | 23.38 | 22.79 | 23.33 | 1 |
| | | | 25 | 0 | 23.38 | 22.83 | 23.26 | 1 | |
| | | | 16QAM | 1 | 1 | 23.59 | 22.98 | 23.43 | 1 |
| CP | QPSK | 1 | 1 | 22.79 | 22.24 | 22.64 | 1.5 | | |

NR Band n25 _ 10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|----------|----------|
| | | | | | | 371000 | 376500 | 382000 | |
| | | | | | | 1855 MHz | 1882.5 MHz | 1910 MHz | |
| 10 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 24.39 | 23.84 | 24.05 | 0 |
| | | | | 1 | 26 | 24.78 | 24.15 | 24.54 | 0 |
| | | | | 1 | 50 | 24.24 | 23.72 | 23.96 | 0 |
| | | | | 25 | 0 | 23.92 | 23.37 | 23.92 | 1 |
| | | | | 25 | 14 | 24.27 | 23.71 | 24.28 | 0 |
| | | | | 25 | 27 | 23.82 | 23.36 | 23.97 | 1 |
| | | | QPSK | 50 | 0 | 23.91 | 23.35 | 23.77 | 1 |
| | | | | 1 | 1 | 24.26 | 23.72 | 24.11 | 0 |
| | | | | 1 | 26 | 24.18 | 23.78 | 24.38 | 0 |
| | | | | 1 | 50 | 24.13 | 23.59 | 24.08 | 0 |
| | | | | 25 | 0 | 23.36 | 22.84 | 23.27 | 1 |
| | | | | 25 | 14 | 24.28 | 23.73 | 24.25 | 0 |
| | | | 16QAM | 25 | 27 | 23.33 | 22.81 | 23.38 | 1 |
| | | | | 50 | 0 | 23.38 | 22.90 | 23.32 | 1 |
| | | | | 1 | 1 | 23.66 | 23.02 | 23.47 | 1 |
| CP | QPSK | 1 | 1 | 22.90 | 22.31 | 22.74 | 1.5 | | |

NR Band n25 _ 15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|------------|----------|
| | | | | | | 371500 | 376500 | 381500 | |
| | | | | | | 1857.5 MHz | 1882.5 MHz | 1907.5 MHz | |
| 15 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 24.18 | 23.87 | 24.24 | 0 |
| | | | | 1 | 40 | 24.08 | 23.72 | 24.34 | 0 |
| | | | | 1 | 77 | 23.83 | 23.84 | 24.20 | 0 |
| | | | | 36 | 0 | 23.64 | 23.38 | 23.83 | 1 |
| | | | | 36 | 22 | 23.88 | 23.71 | 24.22 | 0 |
| | | | | 36 | 43 | 23.32 | 23.29 | 23.78 | 1 |
| | | | | 75 | 0 | 23.50 | 23.35 | 23.78 | 1 |
| | | | QPSK | 1 | 1 | 23.99 | 23.69 | 24.09 | 0 |
| | | | | 1 | 40 | 23.85 | 23.59 | 24.17 | 0 |
| | | | | 1 | 77 | 23.61 | 23.61 | 24.16 | 0 |
| | | | | 36 | 0 | 23.09 | 22.89 | 23.32 | 1 |
| | | | | 36 | 22 | 23.87 | 23.68 | 24.22 | 0 |
| | | | | 36 | 43 | 22.91 | 22.82 | 23.26 | 1 |
| | | | | 75 | 0 | 23.01 | 22.85 | 23.36 | 1 |
| | | | 16QAM | 1 | 1 | 23.41 | 23.12 | 23.48 | 1 |
| CP | QPSK | 1 | 1 | 22.66 | 22.40 | 22.77 | 1.5 | | |

NR Band n25 _ 20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|----------|----------|
| | | | | | | 372000 | 376500 | 381000 | |
| | | | | | | 1860 MHz | 1882.5 MHz | 1905 MHz | |
| 20 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 24.25 | 23.95 | 24.12 | 0 |
| | | | | 1 | 53 | 24.30 | 24.16 | 24.56 | 0 |
| | | | | 1 | 104 | 23.66 | 23.77 | 23.94 | 0 |
| | | | | 50 | 0 | 23.63 | 23.41 | 23.71 | 1 |
| | | | | 50 | 28 | 23.84 | 23.73 | 24.18 | 0 |
| | | | | 50 | 56 | 23.33 | 23.28 | 23.78 | 1 |
| | | | | 100 | 0 | 23.45 | 23.37 | 23.78 | 1 |
| | | | QPSK | 1 | 1 | 24.00 | 23.73 | 23.88 | 0 |
| | | | | 1 | 53 | 23.81 | 23.76 | 24.16 | 0 |
| | | | | 1 | 104 | 23.48 | 23.61 | 24.02 | 0 |
| | | | | 50 | 0 | 23.07 | 22.91 | 23.27 | 1 |
| | | | | 50 | 28 | 23.84 | 23.74 | 24.16 | 0 |
| | | | | 50 | 56 | 22.85 | 22.79 | 23.29 | 1 |
| | | | | 100 | 0 | 23.02 | 22.82 | 23.20 | 1 |
| | | | 16QAM | 1 | 1 | 23.39 | 23.11 | 23.34 | 1 |
| CP | QPSK | 1 | 1 | 22.67 | 22.45 | 22.62 | 1.5 | | |

[NR Band n41 Conducted Power DSI=0,2]

NR Band n41 _20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Max. Average Power (dBm) | | | | | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|--------------------------|---------|---------|---------|---------|----------|
| | | | | | | 501204 | 509898 | 518598 | 527298 | 535998 | |
| | | | | | | 2506.02 | 2549.49 | 2592.99 | 2636.49 | 2679.99 | |
| | | | | | | MHz | MHz | MHz | MHz | MHz | |
| 20 MHz | 30 | DFT-s | pi/2 BPSK | 1 | 1 | 24.09 | 23.99 | 23.95 | 23.95 | 23.98 | 0 |
| | | | | 1 | 26 | 24.00 | 23.86 | 23.87 | 23.94 | 23.90 | 0 |
| | | | | 1 | 49 | 24.07 | 23.94 | 23.86 | 23.93 | 23.88 | 0 |
| | | | | 25 | 0 | 23.60 | 23.49 | 23.33 | 23.41 | 23.42 | 0.5 |
| | | | | 25 | 13 | 23.96 | 23.81 | 23.77 | 23.81 | 23.84 | 0 |
| | | | | 25 | 26 | 23.63 | 23.46 | 23.39 | 23.40 | 23.38 | 0.5 |
| | | | QPSK | 50 | 0 | 23.56 | 23.44 | 23.38 | 23.44 | 23.43 | 0.5 |
| | | | | 1 | 1 | 24.03 | 23.84 | 23.82 | 23.94 | 23.95 | 0 |
| | | | | 1 | 26 | 23.96 | 23.87 | 23.80 | 23.86 | 23.84 | 0 |
| | | | | 1 | 49 | 24.02 | 23.87 | 23.77 | 23.87 | 23.82 | 0 |
| | | | | 25 | 0 | 23.09 | 22.98 | 22.87 | 22.93 | 22.98 | 1 |
| | | | | 25 | 13 | 23.95 | 23.87 | 23.75 | 23.82 | 23.82 | 0 |
| | | | 16QAM | 25 | 26 | 23.08 | 22.99 | 22.87 | 22.90 | 22.89 | 1 |
| | | | | 50 | 0 | 23.06 | 22.93 | 22.84 | 22.91 | 22.92 | 1 |
| | | | | 1 | 1 | 23.11 | 22.93 | 23.05 | 23.05 | 23.22 | 1 |
| | | | CP | QPSK | 1 | 1 | 22.46 | 22.28 | 22.30 | 22.38 | 22.38 |

NR Band n41 _40 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Max. Average Power (dBm) | | | | MPR [dB] | |
|-----------|----------|-------|------------|---------|-----------|--------------------------|---------|-------|---------|----------|--------|
| | | | | | | 503202 | 513468 | | 523734 | | 534000 |
| | | | | | | 2516.01 | 2567.34 | | 2618.67 | | 2670 |
| | | | | | | MHz | MHz | | MHz | MHz | |
| 40 MHz | 30 | DFT-s | pi/2 BPSK | 1 | 1 | 24.34 | 24.31 | | 24.24 | 24.30 | 0 |
| | | | | 1 | 53 | 24.33 | 24.28 | | 24.19 | 24.26 | 0 |
| | | | | 1 | 104 | 24.36 | 24.18 | | 24.25 | 24.25 | 0 |
| | | | | 50 | 0 | 23.79 | 23.66 | | 23.71 | 23.80 | 0.5 |
| | | | | 50 | 28 | 24.12 | 24.04 | | 24.14 | 24.13 | 0 |
| | | | | 50 | 56 | 23.80 | 23.67 | | 23.75 | 23.78 | 0.5 |
| | | | QPSK | 100 | 0 | 23.69 | 23.62 | | 23.71 | 23.77 | 0.5 |
| | | | | 1 | 1 | 24.29 | 24.16 | | 24.30 | 24.31 | 0 |
| | | | | 1 | 53 | 24.27 | 24.00 | | 24.14 | 24.22 | 0 |
| | | | | 1 | 104 | 24.28 | 24.15 | | 24.20 | 24.18 | 0 |
| | | | | 50 | 0 | 23.27 | 23.09 | | 23.16 | 23.29 | 1 |
| | | | | 50 | 28 | 24.15 | 23.93 | | 24.04 | 24.14 | 0 |
| | | | 16QAM | 50 | 56 | 23.30 | 23.10 | | 23.21 | 23.28 | 1 |
| | | | | 100 | 0 | 23.32 | 23.09 | | 23.21 | 23.27 | 1 |
| | | | | 1 | 1 | 23.47 | 23.37 | | 23.36 | 23.49 | 1 |
| | | | CP | QPSK | 1 | 1 | 22.77 | 22.67 | | 22.65 | 22.75 |

NR Band n41_50 Mhz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Max. Average Power (dBm) | | | MPR [dB] | |
|-----------|----------|-------|------------|---------|-----------|--------------------------|-------------|-------------|----------|-----|
| | | | | | | 504204 | 518598 | 532998 | | |
| | | | | | | 2521.02 Mhz | 2592.99 Mhz | 2664.99 Mhz | | |
| 50 Mhz | 30 | DFT-s | pi/2 BPSK | 1 | 1 | 24.13 | | 23.91 | 24.06 | 0 |
| | | | | 1 | 67 | 23.87 | | 23.78 | 23.84 | 0 |
| | | | | 1 | 131 | 24.05 | | 23.89 | 24.02 | 0 |
| | | | | 64 | 0 | 23.46 | | 23.37 | 23.45 | 0.5 |
| | | | | 64 | 35 | 23.86 | | 23.74 | 23.82 | 0 |
| | | | | 64 | 69 | 23.44 | | 23.39 | 23.42 | 0.5 |
| | | | 128 | 0 | 23.45 | | 23.36 | 23.48 | 0.5 | |
| | | | QPSK | 1 | 1 | 24.08 | | 23.80 | 23.88 | 0 |
| | | | | 1 | 67 | 23.74 | | 23.54 | 23.75 | 0 |
| | | | | 1 | 131 | 23.95 | | 23.79 | 23.92 | 0 |
| | | | | 64 | 0 | 22.93 | | 22.84 | 22.94 | 1 |
| | | | | 64 | 35 | 23.84 | | 23.73 | 23.84 | 0 |
| | | | | 64 | 69 | 22.96 | | 22.87 | 22.95 | 1 |
| | | | 128 | 0 | 22.94 | | 22.83 | 22.96 | 1 | |
| | | | 16QAM | 1 | 1 | 23.11 | | 22.90 | 23.01 | 1 |
| | | CP | QPSK | 1 | 1 | 22.46 | | 22.26 | 22.45 | 1.5 |

NR Band n41_60 Mhz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Max. Average Power (dBm) | | | MPR [dB] | |
|-----------|----------|-------|------------|---------|-----------|--------------------------|-------------|-------------|----------|-----|
| | | | | | | 505200 | 518598 | 531996 | | |
| | | | | | | 2526 Mhz | 2592.99 Mhz | 2659.98 Mhz | | |
| 60 Mhz | 30 | DFT-s | pi/2 BPSK | 1 | 1 | 24.09 | | 23.88 | 24.10 | 0 |
| | | | | 1 | 81 | 24.19 | | 24.22 | 24.34 | 0 |
| | | | | 1 | 160 | 23.92 | | 23.92 | 24.08 | 0 |
| | | | | 81 | 0 | 23.47 | | 23.35 | 23.59 | 0.5 |
| | | | | 81 | 41 | 23.87 | | 23.75 | 23.95 | 0 |
| | | | | 81 | 81 | 23.45 | | 23.42 | 23.57 | 0.5 |
| | | | 162 | 0 | 23.48 | | 23.39 | 23.60 | 0.5 | |
| | | | QPSK | 1 | 1 | 23.99 | | 23.77 | 24.08 | 0 |
| | | | | 1 | 81 | 23.90 | | 23.78 | 24.01 | 0 |
| | | | | 1 | 160 | 23.90 | | 23.89 | 24.04 | 0 |
| | | | | 81 | 0 | 22.98 | | 22.88 | 23.11 | 1 |
| | | | | 81 | 41 | 23.84 | | 23.75 | 23.93 | 0 |
| | | | | 81 | 81 | 22.98 | | 22.91 | 23.07 | 1 |
| | | | 162 | 0 | 22.93 | | 22.90 | 23.08 | 1 | |
| | | | 16QAM | 1 | 1 | 23.01 | | 22.89 | 23.04 | 1 |
| | | CP | QPSK | 1 | 1 | 22.45 | | 22.27 | 22.46 | 1.5 |

NR Band n41_80 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Max. Average Power (dBm) | | | | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|--------------------------|--|-------|----------------|----------|
| | | | | | | 507204 | | | 529998 | |
| | | | | | | 2536.02 MHz | | | 2649.99 MHz | |
| 80 MHz | 30 | DFT-s | pi/2 BPSK | 1 | 1 | 24.16 | | | 24.18 | 0 |
| | | | | 1 | 109 | 24.04 | | | 24.03 | 0 |
| | | | | 1 | 215 | 23.94 | | | 23.95 | 0 |
| | | | | 108 | 0 | 23.77 | | | 23.77 | 0.5 |
| | | | | 108 | 55 | 24.02 | | | 24.12 | 0 |
| | | | | 108 | 109 | 23.64 | | | 23.70 | 0.5 |
| | | | 216 | 0 | 23.67 | | | 23.68 | 0.5 | |
| | | | QPSK | 1 | 1 | 24.10 | | | 24.12 | 0 |
| | | | | 1 | 109 | 23.94 | | | 23.97 | 0 |
| | | | | 1 | 215 | 23.88 | | | 23.87 | 0 |
| | | | | 108 | 0 | 23.20 | | | 23.23 | 1 |
| | | | | 108 | 55 | 24.06 | | | 24.05 | 0 |
| | | | | 108 | 109 | 23.10 | | | 23.24 | 1 |
| | | | 216 | 0 | 23.20 | | | 23.18 | 1 | |
| | | | 16QAM | 1 | 1 | 23.29 | | | 23.28 | 1 |
| | | CP | QPSK | 1 | 1 | 22.65 | | | 22.63 | 1.5 |

NR Band n41_90 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Max. Average Power (dBm) | | | | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|--------------------------|--|-------|----------------|----------|
| | | | | | | 508200 | | | 528996 | |
| | | | | | | 2541 MHz | | | 2644.98 MHz | |
| 90 MHz | 30 | DFT-s | pi/2 BPSK | 1 | 1 | 24.22 | | | 24.15 | 0 |
| | | | | 1 | 123 | 24.03 | | | 24.13 | 0 |
| | | | | 1 | 243 | 24.12 | | | 23.99 | 0 |
| | | | | 120 | 0 | 23.77 | | | 23.70 | 0.5 |
| | | | | 120 | 63 | 24.06 | | | 24.13 | 0 |
| | | | | 120 | 125 | 23.70 | | | 23.74 | 0.5 |
| | | | 243 | 0 | 23.73 | | | 23.66 | 0.5 | |
| | | | QPSK | 1 | 1 | 24.15 | | | 24.09 | 0 |
| | | | | 1 | 123 | 24.03 | | | 24.08 | 0 |
| | | | | 1 | 243 | 24.01 | | | 23.99 | 0 |
| | | | | 120 | 0 | 23.24 | | | 23.25 | 1 |
| | | | | 120 | 63 | 24.08 | | | 24.10 | 0 |
| | | | | 120 | 125 | 23.25 | | | 23.33 | 1 |
| | | | 243 | 0 | 23.22 | | | 23.20 | 1 | |
| | | | 16QAM | 1 | 1 | 23.29 | | | 23.31 | 1 |
| | | CP | QPSK | 1 | 1 | 22.60 | | | 22.63 | 1.5 |

NR Band n41 _100 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Max. Average Power (dBm) | | | | MPR [dB] | | |
|-----------|----------|-------|------------|---------|-----------|--------------------------|--|---------|-------|----------|-----|-----|
| | | | | | | | | 518598 | | | | |
| 100 MHz | 30 | DFT-s | pi/2 BPSK | 1 | 1 | | | 2592.99 | | | 0 | |
| | | | | 1 | 137 | | | 23.98 | | | 0 | |
| | | | | 1 | 271 | | | 24.01 | | | 0 | |
| | | | | 135 | 0 | | | 23.97 | | | 0 | |
| | | | | 135 | 69 | | | 23.63 | | | 0.5 | |
| | | | | 135 | 138 | | | 24.00 | | | 0 | |
| | | | | 270 | 0 | | | 23.64 | | | 0.5 | |
| | | | QPSK | 1 | 1 | | | 23.65 | | | 0.5 | |
| | | | | 1 | 137 | | | 23.94 | | | 0 | |
| | | | | 1 | 271 | | | 24.01 | | | 0 | |
| | | | | 135 | 0 | | | 23.95 | | | 0 | |
| | | | | 135 | 69 | | | 23.17 | | | 1 | |
| | | | | 135 | 138 | | | 24.00 | | | 0 | |
| | | | 16QAM | 135 | 138 | | | 23.17 | | | 1 | |
| | | | | 270 | 0 | | | 23.16 | | | 1 | |
| | | | CP | QPSK | 1 | 1 | | | | 23.09 | | |
| | | | | | | | | | 22.43 | | | 1.5 |

NR Band n41 at 100 MHz Bandwidth does not support three non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

[NR Band n66 Conducted Power DSI=0,2]

NR Band n66 _5 Mhz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|------------|------------|----------|
| | | | | | | 342500 | 346820 | 351160 | 355500 | |
| | | | | | | 1712.5 MHz | 1734.1 MHz | 1755.8 MHz | 1777.5 MHz | |
| 5 Mhz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 24.17 | 24.10 | 24.45 | 24.48 | 0 |
| | | | | 1 | 13 | 24.30 | 24.06 | 24.45 | 24.36 | 0 |
| | | | | 1 | 23 | 24.13 | 24.09 | 24.42 | 24.35 | 0 |
| | | | | 12 | 0 | 23.52 | 23.66 | 23.99 | 23.98 | 1 |
| | | | | 12 | 7 | 24.33 | 24.07 | 24.40 | 24.37 | 0 |
| | | | | 12 | 13 | 24.06 | 23.66 | 23.99 | 23.90 | 1 |
| | | | QPSK | 25 | 0 | 24.07 | 23.65 | 23.99 | 23.93 | 1 |
| | | | | 1 | 1 | 24.28 | 23.92 | 24.31 | 24.29 | 0 |
| | | | | 1 | 13 | 24.33 | 23.88 | 24.23 | 24.26 | 0 |
| | | | | 1 | 23 | 24.30 | 23.95 | 24.26 | 24.24 | 0 |
| | | | | 12 | 0 | 23.32 | 23.23 | 23.52 | 23.48 | 1 |
| | | | | 12 | 7 | 24.24 | 24.00 | 24.38 | 24.32 | 0 |
| | | | | 12 | 13 | 23.55 | 23.12 | 23.52 | 23.44 | 1 |
| | | | | 25 | 0 | 23.49 | 23.15 | 23.47 | 23.48 | 1 |
| | | | 16QAM | 1 | 1 | 23.42 | 23.43 | 23.73 | 23.71 | 1 |
| | | | CP | QPSK | 1 | 1 | 22.73 | 22.65 | 22.98 | 22.93 |

NR Band n66 _10 Mhz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|----------|----------|----------|
| | | | | | | 343000 | 347000 | 351000 | 355000 | |
| | | | | | | 1715 MHz | 1735 MHz | 1755 MHz | 1775 MHz | |
| 10 Mhz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 24.09 | 24.16 | 24.23 | 24.32 | 0 |
| | | | | 1 | 26 | 24.25 | 24.36 | 24.67 | 24.76 | 0 |
| | | | | 1 | 50 | 23.64 | 24.07 | 24.20 | 24.38 | 0 |
| | | | | 25 | 0 | 24.05 | 23.70 | 24.00 | 24.09 | 1 |
| | | | | 25 | 14 | 24.46 | 24.07 | 24.40 | 24.44 | 0 |
| | | | | 25 | 27 | 24.04 | 23.66 | 23.96 | 23.94 | 1 |
| | | | QPSK | 50 | 0 | 24.05 | 23.67 | 24.02 | 24.02 | 1 |
| | | | | 1 | 1 | 24.30 | 24.02 | 24.31 | 24.47 | 0 |
| | | | | 1 | 26 | 24.61 | 24.18 | 24.44 | 24.41 | 0 |
| | | | | 1 | 50 | 24.34 | 23.97 | 24.22 | 24.20 | 0 |
| | | | | 25 | 0 | 23.60 | 23.24 | 23.50 | 23.55 | 1 |
| | | | | 25 | 14 | 24.46 | 24.10 | 24.40 | 24.44 | 0 |
| | | | | 25 | 27 | 23.48 | 23.25 | 23.45 | 23.45 | 1 |
| | | | | 50 | 0 | 23.57 | 23.22 | 23.45 | 23.51 | 1 |
| | | | 16QAM | 1 | 1 | 23.65 | 23.44 | 23.71 | 23.85 | 1 |
| | | | CP | QPSK | 1 | 1 | 23.01 | 22.75 | 22.99 | 23.07 |

NR Band n66 _ 15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | | MPR [dB] | |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|------------|------------|----------|-----|
| | | | | | | 343500 | 347160 | 350820 | 354500 | | |
| | | | | | | 1717.5 MHz | 1735.8 MHz | 1754.1 MHz | 1772.5 MHz | | |
| 15 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 24.02 | 24.10 | 24.49 | 24.39 | 0 | |
| | | | | 1 | 40 | 24.07 | 24.04 | 24.37 | 24.38 | 0 | |
| | | | | 1 | 77 | 24.12 | 24.23 | 24.36 | 24.31 | 0 | |
| | | | | 36 | 0 | 23.69 | 23.70 | 24.00 | 23.98 | 1 | |
| | | | | 36 | 22 | 23.95 | 23.99 | 24.31 | 24.28 | 0 | |
| | | | | 36 | 43 | 23.51 | 23.59 | 23.95 | 23.87 | 1 | |
| | | | QPSK | 75 | 0 | 23.58 | 23.63 | 23.91 | 23.93 | 1 | |
| | | | | 1 | 1 | 23.90 | 23.97 | 24.33 | 24.30 | 0 | |
| | | | | 1 | 40 | 23.85 | 23.85 | 24.17 | 24.17 | 0 | |
| | | | | 1 | 77 | 23.98 | 24.07 | 24.24 | 24.10 | 0 | |
| | | | | 36 | 0 | 23.23 | 23.27 | 23.50 | 23.53 | 1 | |
| | | | | 36 | 22 | 23.98 | 24.06 | 24.35 | 24.28 | 0 | |
| | | | 16QAM | 36 | 43 | 23.07 | 23.16 | 23.40 | 23.36 | 1 | |
| | | | | 75 | 0 | 23.17 | 23.20 | 23.49 | 23.50 | 1 | |
| | | | | 1 | 1 | 23.40 | 23.41 | 23.69 | 23.71 | 1 | |
| | | | CP | QPSK | 1 | 1 | 22.69 | 22.64 | 22.95 | 22.98 | 1.5 |

NR Band n66 _ 20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | | MPR [dB] | |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|-------|----------|----------|-----|
| | | | | | | 344000 | 349000 | | 354000 | | |
| | | | | | | 1720 MHz | 1745 MHz | | 1770 MHz | | |
| 20 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 23.70 | 24.22 | | 24.09 | 0 | |
| | | | | 1 | 53 | 24.30 | 24.50 | | 24.74 | 0 | |
| | | | | 1 | 104 | 24.10 | 24.28 | | 24.40 | 0 | |
| | | | | 50 | 0 | 23.74 | 23.85 | | 24.06 | 1 | |
| | | | | 50 | 28 | 24.05 | 24.14 | | 24.38 | 0 | |
| | | | | 50 | 56 | 23.54 | 23.81 | | 23.88 | 1 | |
| | | | QPSK | 100 | 0 | 23.61 | 23.74 | | 23.96 | 1 | |
| | | | | 1 | 1 | 24.04 | 24.10 | | 24.33 | 0 | |
| | | | | 1 | 53 | 24.04 | 24.07 | | 24.24 | 0 | |
| | | | | 1 | 104 | 23.93 | 24.11 | | 24.44 | 0 | |
| | | | | 50 | 0 | 23.19 | 23.33 | | 23.54 | 1 | |
| | | | | 50 | 28 | 24.04 | 24.18 | | 24.51 | 0 | |
| | | | 16QAM | 50 | 56 | 23.05 | 23.17 | | 23.37 | 1 | |
| | | | | 100 | 0 | 23.14 | 23.23 | | 23.51 | 1 | |
| | | | | 1 | 1 | 23.39 | 23.46 | | 23.64 | 1 | |
| | | | CP | QPSK | 1 | 1 | 22.70 | 22.92 | | 22.73 | 1.5 |

[NR Band n71 Conducted Power ,DSI=0,1,2,3,4]

NR Band n71 _ 5 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Max. Average Power (dBm) | | | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|-----------|-----------|----------|
| | | | | | | 133100 | 136100 | 139100 | |
| | | | | | | 665.5 MHz | 680.5 MHz | 695.5 MHz | |
| 5 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 24.65 | 24.35 | 24.42 | 0 |
| | | | | 1 | 13 | 24.51 | 24.29 | 24.32 | 0 |
| | | | | 1 | 23 | 24.50 | 24.28 | 24.30 | 0 |
| | | | | 12 | 0 | 24.12 | 23.90 | 23.85 | 1 |
| | | | | 12 | 7 | 24.43 | 24.24 | 24.20 | 0 |
| | | | | 12 | 13 | 23.99 | 23.77 | 23.75 | 1 |
| | | | QPSK | 25 | 0 | 24.09 | 23.85 | 23.75 | 1 |
| | | | | 1 | 1 | 24.49 | 24.22 | 24.25 | 0 |
| | | | | 1 | 13 | 24.33 | 24.17 | 24.13 | 0 |
| | | | | 1 | 23 | 24.31 | 24.14 | 24.13 | 0 |
| | | | | 12 | 0 | 23.61 | 23.40 | 23.35 | 1 |
| | | | | 12 | 7 | 24.42 | 24.24 | 24.13 | 0 |
| | | | | 12 | 13 | 23.45 | 23.32 | 23.25 | 1 |
| | | | | 25 | 0 | 23.54 | 23.36 | 23.26 | 1 |
| | | | 16QAM | 1 | 1 | 23.91 | 23.69 | 23.67 | 1 |
| | | | CP | QPSK | 1 | 1 | 23.15 | 22.90 | 22.89 |

NR Band n71 _ 10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Max. Average Power (dBm) | | | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|-----------|---------|----------|
| | | | | | | 133600 | 136100 | 138600 | |
| | | | | | | 668 MHz | 680.5 MHz | 693 MHz | |
| 10 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 24.60 | 24.29 | 24.31 | 0 |
| | | | | 1 | 26 | 24.73 | 24.53 | 24.58 | 0 |
| | | | | 1 | 50 | 24.44 | 24.27 | 24.31 | 0 |
| | | | | 25 | 0 | 24.15 | 23.87 | 23.91 | 1 |
| | | | | 25 | 14 | 24.44 | 24.26 | 24.32 | 0 |
| | | | | 25 | 27 | 24.01 | 23.84 | 23.87 | 1 |
| | | | QPSK | 50 | 0 | 24.06 | 23.84 | 23.85 | 1 |
| | | | | 1 | 1 | 24.49 | 24.19 | 24.20 | 0 |
| | | | | 1 | 26 | 24.50 | 24.35 | 24.35 | 0 |
| | | | | 1 | 50 | 24.30 | 24.13 | 24.19 | 0 |
| | | | | 25 | 0 | 23.60 | 23.37 | 23.46 | 1 |
| | | | | 25 | 14 | 24.49 | 24.25 | 24.28 | 0 |
| | | | | 25 | 27 | 23.49 | 23.30 | 23.35 | 1 |
| | | | | 50 | 0 | 23.61 | 23.39 | 23.39 | 1 |
| | | | 16QAM | 1 | 1 | 23.88 | 23.58 | 23.61 | 1 |
| | | | CP | QPSK | 1 | 1 | 23.12 | 22.82 | 22.83 |

NR Band n71 _ 15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Max. Average Power (dBm) | | | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|--|-----------|----------|
| | | | | | | 134100 | | 138100 | |
| | | | | | | 670.5 MHz | | 690.5 MHz | |
| 15 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 24.44 | | 24.42 | 0 |
| | | | | 1 | 40 | 24.34 | | 24.29 | 0 |
| | | | | 1 | 77 | 24.30 | | 24.44 | 0 |
| | | | | 36 | 0 | 23.91 | | 23.92 | 1 |
| | | | | 36 | 22 | 24.23 | | 24.18 | 0 |
| | | | | 36 | 43 | 23.82 | | 23.87 | 1 |
| | | | | 75 | 0 | 23.91 | | 23.84 | 1 |
| | | | QPSK | 1 | 1 | 24.32 | | 24.19 | 0 |
| | | | | 1 | 40 | 24.14 | | 24.15 | 0 |
| | | | | 1 | 77 | 24.14 | | 24.12 | 0 |
| | | | | 36 | 0 | 23.46 | | 23.36 | 1 |
| | | | | 36 | 22 | 24.21 | | 24.19 | 0 |
| | | | | 36 | 43 | 23.37 | | 23.35 | 1 |
| | | | | 75 | 0 | 23.42 | | 23.33 | 1 |
| | | | 16QAM | 1 | 1 | 23.71 | | 23.69 | 1 |
| | | CP | QPSK | 1 | 1 | 22.97 | | 22.86 | 1.5 |

NR Band n71 _ 20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Max. Average Power (dBm) | | | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|-----------|--|----------|
| | | | | | | | 136100 | | |
| | | | | | | | 680.5 MHz | | |
| 20 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | | 24.42 | | 0 |
| | | | | 1 | 53 | | 24.53 | | 0 |
| | | | | 1 | 104 | | 24.33 | | 0 |
| | | | | 50 | 0 | | 23.87 | | 1 |
| | | | | 50 | 28 | | 24.32 | | 0 |
| | | | | 50 | 56 | | 23.90 | | 1 |
| | | | | 100 | 0 | | 23.92 | | 1 |
| | | | QPSK | 1 | 1 | | 24.28 | | 0 |
| | | | | 1 | 53 | | 24.39 | | 0 |
| | | | | 1 | 104 | | 24.20 | | 0 |
| | | | | 50 | 0 | | 23.44 | | 1 |
| | | | | 50 | 28 | | 24.28 | | 0 |
| | | | | 50 | 56 | | 23.38 | | 1 |
| | | | | 100 | 0 | | 23.37 | | 1 |
| | | | 16QAM | 1 | 1 | | 23.59 | | 1 |
| CP | QPSK | 1 | 1 | | 22.84 | | 1.5 | | |

NR Band n71 at 20 MHz Bandwidth does not support three non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

11.5.2 NR Band Reduced Conducted Power (Hotspot activated DSI=3)

DSI = 3 PLimit Calculations - 5G Hotspot SAR

[NR Band n2 Conducted Power]

NR Band n2_ 5 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|------------|----------|
| | | | | | | 370500 | 376000 | 381500 | |
| | | | | | | 1852.5 MHz | 1880 MHz | 1907.5 MHz | |
| 5 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 18.68 | 18.64 | 18.80 | 0 |
| | | | | 1 | 13 | 18.72 | 18.67 | 18.87 | 0 |
| | | | | 1 | 23 | 18.73 | 18.68 | 18.88 | 0 |
| | | | | 12 | 0 | 18.57 | 18.60 | 18.75 | 0 |
| | | | | 12 | 7 | 18.68 | 18.61 | 18.78 | 0 |
| | | | | 12 | 13 | 18.65 | 18.55 | 18.81 | 0 |
| | | | 25 | 0 | 18.67 | 18.59 | 18.80 | 0 | |
| | | | QPSK | 1 | 1 | 18.57 | 18.57 | 18.70 | 0 |
| | | | | 1 | 13 | 18.50 | 18.53 | 18.70 | 0 |
| | | | | 1 | 23 | 18.57 | 18.55 | 18.74 | 0 |
| | | | | 12 | 0 | 18.60 | 18.53 | 18.73 | 0 |
| | | | | 12 | 7 | 18.68 | 18.58 | 18.77 | 0 |
| | | | | 12 | 13 | 18.62 | 18.51 | 18.74 | 0 |
| | | | 25 | 0 | 18.66 | 18.60 | 18.79 | 0 | |
| | | | 16QAM | 1 | 1 | 18.82 | 18.84 | 19.01 | 0 |
| | | | CP | QPSK | 1 | 1 | 18.59 | 18.58 | 18.73 |

NR Band n2_ 10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|----------|----------|
| | | | | | | 371000 | 376000 | 381000 | |
| | | | | | | 1855 MHz | 1880 MHz | 1905 MHz | |
| 10 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 18.70 | 18.72 | 18.79 | 0 |
| | | | | 1 | 26 | 19.13 | 19.06 | 19.13 | 0 |
| | | | | 1 | 50 | 18.69 | 18.66 | 18.84 | 0 |
| | | | | 25 | 0 | 18.65 | 18.55 | 18.74 | 0 |
| | | | | 25 | 14 | 18.62 | 18.55 | 18.82 | 0 |
| | | | | 25 | 27 | 18.59 | 18.59 | 18.80 | 0 |
| | | | 50 | 0 | 18.63 | 18.58 | 18.80 | 0 | |
| | | | QPSK | 1 | 1 | 18.61 | 18.62 | 18.67 | 0 |
| | | | | 1 | 26 | 18.52 | 18.56 | 18.76 | 0 |
| | | | | 1 | 50 | 18.55 | 18.56 | 18.80 | 0 |
| | | | | 25 | 0 | 18.66 | 18.52 | 18.72 | 0 |
| | | | | 25 | 14 | 18.65 | 18.60 | 18.81 | 0 |
| | | | | 25 | 27 | 18.63 | 18.54 | 18.78 | 0 |
| | | | 50 | 0 | 18.67 | 18.54 | 18.81 | 0 | |
| | | | 16QAM | 1 | 1 | 18.89 | 18.87 | 19.00 | 0 |
| | | | CP | QPSK | 1 | 1 | 18.60 | 18.57 | 18.75 |

NR Band n2 _ 15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR [dB] | |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|------------|----------|---|
| | | | | | | 371500 | 376000 | 380500 | | |
| | | | | | | 1857.5 MHz | 1880 MHz | 1902.5 MHz | | |
| 15 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 18.77 | 18.68 | 18.76 | 0 | |
| | | | | 1 | 40 | 18.78 | 18.62 | 18.84 | 0 | |
| | | | | 1 | 77 | 18.70 | 18.63 | 18.92 | 0 | |
| | | | | 36 | 0 | 18.65 | 18.56 | 18.78 | 0 | |
| | | | | 36 | 22 | 18.63 | 18.62 | 18.76 | 0 | |
| | | | | 36 | 43 | 18.63 | 18.61 | 18.90 | 0 | |
| | | | 75 | 0 | 18.62 | 18.62 | 18.86 | 0 | | |
| | | | QPSK | 1 | 1 | 18.63 | 18.66 | 18.62 | 0 | |
| | | | | 1 | 40 | 18.54 | 18.56 | 18.74 | 0 | |
| | | | | 1 | 77 | 18.54 | 18.54 | 18.79 | 0 | |
| | | | | 36 | 0 | 18.63 | 18.59 | 18.74 | 0 | |
| | | | | 36 | 22 | 18.62 | 18.57 | 18.79 | 0 | |
| | | | | 36 | 43 | 18.63 | 18.56 | 18.84 | 0 | |
| | | | 75 | 0 | 18.68 | 18.62 | 18.80 | 0 | | |
| | | | 16QAM | 1 | 1 | 18.90 | 18.87 | 19.01 | 0 | |
| | | | CP | QPSK | 1 | 1 | 18.64 | 18.59 | 18.76 | 0 |

NR Band n2 _ 20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR [dB] | |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|----------|----------|---|
| | | | | | | 372000 | 376000 | 380000 | | |
| | | | | | | 1860 MHz | 1880 MHz | 1900 MHz | | |
| 20 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 18.80 | 18.71 | 18.68 | 0 | |
| | | | | 1 | 53 | 19.01 | 19.08 | 19.12 | 0 | |
| | | | | 1 | 104 | 18.59 | 18.75 | 18.90 | 0 | |
| | | | | 50 | 0 | 18.63 | 18.60 | 18.70 | 0 | |
| | | | | 50 | 28 | 18.59 | 18.61 | 18.78 | 0 | |
| | | | | 50 | 56 | 18.55 | 18.60 | 18.80 | 0 | |
| | | | 100 | 0 | 18.57 | 18.60 | 18.71 | 0 | | |
| | | | QPSK | 1 | 1 | 18.60 | 18.62 | 18.62 | 0 | |
| | | | | 1 | 53 | 18.58 | 18.58 | 18.67 | 0 | |
| | | | | 1 | 104 | 18.43 | 18.55 | 18.83 | 0 | |
| | | | | 50 | 0 | 18.66 | 18.60 | 18.74 | 0 | |
| | | | | 50 | 28 | 18.57 | 18.63 | 18.85 | 0 | |
| | | | | 50 | 56 | 18.60 | 18.58 | 18.76 | 0 | |
| | | | 100 | 0 | 18.58 | 18.67 | 18.76 | 0 | | |
| | | | 16QAM | 1 | 1 | 18.87 | 18.82 | 18.89 | 0 | |
| | | | CP | QPSK | 1 | 1 | 18.61 | 18.54 | 18.59 | 0 |

[NR Band n25 Conducted Power]

NR Band n25 _ 5 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|------------|----------|
| | | | | | | 370500 | 376500 | 382500 | |
| | | | | | | 1852.5 MHz | 1882.5 MHz | 1912.5 MHz | |
| 5 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 18.76 | 18.67 | 19.04 | 0 |
| | | | | 1 | 13 | 18.78 | 18.67 | 19.11 | 0 |
| | | | | 1 | 23 | 18.84 | 18.69 | 19.05 | 0 |
| | | | | 12 | 0 | 18.75 | 18.60 | 18.99 | 0 |
| | | | | 12 | 7 | 18.82 | 18.65 | 19.06 | 0 |
| | | | | 12 | 13 | 18.84 | 18.67 | 19.03 | 0 |
| | | | | 25 | 0 | 18.76 | 18.64 | 19.02 | 0 |
| | | | QPSK | 1 | 1 | 18.68 | 18.57 | 18.92 | 0 |
| | | | | 1 | 13 | 18.71 | 18.58 | 18.93 | 0 |
| | | | | 1 | 23 | 18.74 | 18.58 | 18.91 | 0 |
| | | | | 12 | 0 | 18.75 | 18.56 | 18.99 | 0 |
| | | | | 12 | 7 | 18.77 | 18.65 | 18.95 | 0 |
| | | | | 12 | 13 | 18.83 | 18.68 | 18.99 | 0 |
| | | | | 25 | 0 | 18.77 | 18.66 | 18.99 | 0 |
| | | | 16QAM | 1 | 1 | 18.96 | 18.86 | 19.16 | 0 |
| CP | QPSK | 1 | 1 | 18.73 | 18.60 | 18.94 | 0 | | |

NR Band n25 _ 10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|----------|----------|
| | | | | | | 371000 | 376500 | 382000 | |
| | | | | | | 1855 MHz | 1882.5 MHz | 1910 MHz | |
| 10 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 18.84 | 18.73 | 19.05 | 0 |
| | | | | 1 | 26 | 19.34 | 19.14 | 19.29 | 0 |
| | | | | 1 | 50 | 18.78 | 18.71 | 19.02 | 0 |
| | | | | 25 | 0 | 18.77 | 18.68 | 18.89 | 0 |
| | | | | 25 | 14 | 18.81 | 18.65 | 18.98 | 0 |
| | | | | 25 | 27 | 18.72 | 18.72 | 19.05 | 0 |
| | | | | 50 | 0 | 18.77 | 18.75 | 18.96 | 0 |
| | | | QPSK | 1 | 1 | 18.72 | 18.62 | 18.90 | 0 |
| | | | | 1 | 26 | 18.78 | 18.69 | 19.06 | 0 |
| | | | | 1 | 50 | 18.69 | 18.60 | 18.84 | 0 |
| | | | | 25 | 0 | 18.70 | 18.62 | 18.87 | 0 |
| | | | | 25 | 14 | 18.79 | 18.66 | 18.88 | 0 |
| | | | | 25 | 27 | 18.76 | 18.62 | 18.92 | 0 |
| | | | | 50 | 0 | 18.75 | 18.63 | 19.12 | 0 |
| | | | 16QAM | 1 | 1 | 18.99 | 18.87 | 19.18 | 0 |
| CP | QPSK | 1 | 1 | 18.75 | 18.65 | 18.92 | 0 | | |

NR Band n25 _ 15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|------------|----------|
| | | | | | | 371500 | 376500 | 381500 | |
| | | | | | | 1857.5 MHz | 1882.5 MHz | 1907.5 MHz | |
| 15 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 18.86 | 18.83 | 19.02 | 0 |
| | | | | 1 | 40 | 18.83 | 18.71 | 19.00 | 0 |
| | | | | 1 | 77 | 18.81 | 18.73 | 18.99 | 0 |
| | | | | 36 | 0 | 18.76 | 18.74 | 18.90 | 0 |
| | | | | 36 | 22 | 18.75 | 18.65 | 18.91 | 0 |
| | | | | 36 | 43 | 18.67 | 18.58 | 18.86 | 0 |
| | | | | 75 | 0 | 18.74 | 18.66 | 18.90 | 0 |
| | | | QPSK | 1 | 1 | 18.78 | 18.68 | 18.87 | 0 |
| | | | | 1 | 40 | 18.65 | 18.58 | 18.81 | 0 |
| | | | | 1 | 77 | 18.62 | 18.56 | 18.85 | 0 |
| | | | | 36 | 0 | 18.85 | 18.74 | 18.88 | 0 |
| | | | | 36 | 22 | 18.72 | 18.66 | 18.89 | 0 |
| | | | | 36 | 43 | 18.69 | 18.67 | 18.91 | 0 |
| | | | | 75 | 0 | 18.80 | 18.71 | 18.93 | 0 |
| | | | 16QAM | 1 | 1 | 19.05 | 18.96 | 19.13 | 0 |
| CP | QPSK | 1 | 1 | 18.82 | 18.76 | 18.90 | 0 | | |

NR Band n25 _ 20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|----------|----------|
| | | | | | | 372000 | 376500 | 381000 | |
| | | | | | | 1860 MHz | 1882.5 MHz | 1905 MHz | |
| 20 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 18.87 | 18.82 | 18.89 | 0 |
| | | | | 1 | 53 | 19.08 | 18.98 | 19.27 | 0 |
| | | | | 1 | 104 | 18.64 | 18.68 | 19.00 | 0 |
| | | | | 50 | 0 | 18.71 | 18.66 | 18.98 | 0 |
| | | | | 50 | 28 | 18.70 | 18.59 | 18.92 | 0 |
| | | | | 50 | 56 | 18.62 | 18.51 | 19.00 | 0 |
| | | | | 100 | 0 | 18.66 | 18.61 | 18.97 | 0 |
| | | | QPSK | 1 | 1 | 18.75 | 18.69 | 18.82 | 0 |
| | | | | 1 | 53 | 18.68 | 18.70 | 19.00 | 0 |
| | | | | 1 | 104 | 18.42 | 18.56 | 18.90 | 0 |
| | | | | 50 | 0 | 18.77 | 18.68 | 18.90 | 0 |
| | | | | 50 | 28 | 18.71 | 18.63 | 18.91 | 0 |
| | | | | 50 | 56 | 18.62 | 18.56 | 18.88 | 0 |
| | | | | 100 | 0 | 18.71 | 18.65 | 18.94 | 0 |
| | | | 16QAM | 1 | 1 | 19.04 | 18.95 | 19.10 | 0 |
| CP | QPSK | 1 | 1 | 18.74 | 18.73 | 18.83 | 0 | | |

[NR Band n41 Conducted Power]

NR Band n41 _20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Max. Average Power (dBm) | | | | | MPR [dB] | |
|-----------|----------|-------|------------|---------|-----------|--------------------------|---------|---------|---------|---------|----------|---|
| | | | | | | 501204 | 509898 | 518598 | 527298 | 535998 | | |
| | | | | | | 2506.02 | 2549.49 | 2592.99 | 2636.49 | 2679.99 | | |
| | | | | | | MHz | MHz | MHz | MHz | MHz | | |
| 20 MHz | 30 | DFT-s | pi/2 BPSK | 1 | 1 | 21.37 | 21.27 | 20.95 | 20.94 | 20.84 | 0 | |
| | | | | 1 | 26 | 21.29 | 21.15 | 20.80 | 20.82 | 20.76 | 0 | |
| | | | | 1 | 49 | 21.36 | 21.18 | 20.84 | 20.77 | 20.76 | 0 | |
| | | | | 25 | 0 | 21.32 | 21.10 | 20.80 | 20.76 | 20.66 | 0 | |
| | | | | 25 | 13 | 21.30 | 21.12 | 20.77 | 20.73 | 20.76 | 0 | |
| | | | | 25 | 26 | 21.31 | 21.08 | 20.74 | 20.68 | 20.65 | 0 | |
| | | | QPSK | 50 | 0 | 21.30 | 21.08 | 20.80 | 20.73 | 20.44 | 0 | |
| | | | | 1 | 1 | 21.33 | 21.21 | 20.86 | 20.90 | 20.81 | 0 | |
| | | | | 1 | 26 | 21.25 | 21.00 | 20.72 | 20.74 | 20.67 | 0 | |
| | | | | 1 | 49 | 21.32 | 21.10 | 20.78 | 20.64 | 20.64 | 0 | |
| | | | | 25 | 0 | 21.30 | 21.14 | 20.81 | 20.69 | 20.74 | 0 | |
| | | | | 25 | 13 | 21.32 | 21.07 | 20.75 | 20.71 | 20.69 | 0 | |
| | | | 16QAM | 25 | 26 | 21.29 | 21.06 | 20.75 | 20.69 | 20.71 | 0 | |
| | | | | 50 | 0 | 21.30 | 21.08 | 20.77 | 20.74 | 20.68 | 0 | |
| | | | | 1 | 1 | 21.50 | 21.31 | 21.09 | 20.99 | 20.86 | 0 | |
| | | | CP | QPSK | 1 | 1 | 21.30 | 21.23 | 20.82 | 20.81 | 20.86 | 0 |

NR Band n41 _40 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Max. Average Power (dBm) | | | | | MPR [dB] | |
|-----------|----------|-------|------------|---------|-----------|--------------------------|---------|-------|---------|--------|----------|---|
| | | | | | | 503202 | 513468 | | 523734 | 534000 | | |
| | | | | | | 2516.01 | 2567.34 | | 2618.67 | 2670 | | |
| | | | | | | MHz | MHz | | MHz | MHz | | |
| 40 MHz | 30 | DFT-s | pi/2 BPSK | 1 | 1 | 21.67 | 21.53 | | 21.36 | 21.26 | 0 | |
| | | | | 1 | 53 | 21.62 | 21.58 | | 21.22 | 21.19 | 0 | |
| | | | | 1 | 104 | 21.59 | 21.38 | | 21.20 | 21.15 | 0 | |
| | | | | 50 | 0 | 21.49 | 21.43 | | 21.22 | 21.12 | 0 | |
| | | | | 50 | 28 | 21.47 | 21.32 | | 21.18 | 21.07 | 0 | |
| | | | | 50 | 56 | 21.48 | 21.29 | | 21.17 | 21.10 | 0 | |
| | | | QPSK | 100 | 0 | 21.55 | 21.39 | | 21.20 | 21.13 | 0 | |
| | | | | 1 | 1 | 21.71 | 21.51 | | 21.35 | 21.20 | 0 | |
| | | | | 1 | 53 | 21.53 | 21.31 | | 21.15 | 21.16 | 0 | |
| | | | | 1 | 104 | 21.55 | 21.32 | | 21.17 | 21.17 | 0 | |
| | | | | 50 | 0 | 21.51 | 21.42 | | 21.21 | 21.14 | 0 | |
| | | | | 50 | 28 | 21.47 | 21.32 | | 21.16 | 21.06 | 0 | |
| | | | 16QAM | 50 | 56 | 21.55 | 21.31 | | 21.15 | 21.11 | 0 | |
| | | | | 100 | 0 | 21.59 | 21.36 | | 21.19 | 21.15 | 0 | |
| | | | | 1 | 1 | 21.73 | 21.54 | | 21.39 | 21.21 | 0 | |
| | | | CP | QPSK | 1 | 1 | 21.67 | 21.41 | | 21.30 | 21.15 | 0 |

NR Band n41_50 Mhz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Max. Average Power (dBm) | | | MPR [dB] | | |
|-----------|----------|-------|------------|---------|-----------|--------------------------|-------------|-------------|----------|-------|---|
| | | | | | | 504204 | 518598 | 532998 | | | |
| | | | | | | 2521.02 Mhz | 2592.99 Mhz | 2664.99 Mhz | | | |
| 50 Mhz | 30 | DFT-s | pi/2 BPSK | 1 | 1 | 21.20 | | 21.10 | | 20.81 | 0 |
| | | | | 1 | 67 | 21.13 | | 20.84 | | 20.68 | 0 |
| | | | | 1 | 131 | 21.22 | | 20.86 | | 20.77 | 0 |
| | | | | 64 | 0 | 21.11 | | 20.89 | | 20.66 | 0 |
| | | | | 64 | 35 | 21.09 | | 20.84 | | 20.65 | 0 |
| | | | | 64 | 69 | 21.12 | | 20.83 | | 20.67 | 0 |
| | | | 128 | 0 | 21.15 | | 20.84 | | 20.71 | 0 | |
| | | | QPSK | 1 | 1 | 21.20 | | 20.95 | | 20.79 | 0 |
| | | | | 1 | 67 | 21.03 | | 20.76 | | 20.59 | 0 |
| | | | | 1 | 131 | 21.16 | | 20.88 | | 20.75 | 0 |
| | | | | 64 | 0 | 21.13 | | 20.82 | | 20.90 | 0 |
| | | | | 64 | 35 | 21.15 | | 20.79 | | 20.64 | 0 |
| | | | | 64 | 69 | 21.13 | | 20.77 | | 20.65 | 0 |
| | | | 128 | 0 | 21.15 | | 20.85 | | 20.69 | 0 | |
| 16QAM | 1 | 1 | 21.36 | | 21.10 | | 20.88 | 0 | | | |
| CP | QPSK | 1 | 1 | 21.27 | | 21.05 | | 20.79 | 0 | | |

NR Band n41_60 Mhz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Max. Average Power (dBm) | | | MPR [dB] | | |
|-----------|----------|-------|------------|---------|-----------|--------------------------|-------------|-------------|----------|-------|---|
| | | | | | | 505200 | 518598 | 531996 | | | |
| | | | | | | 2526 Mhz | 2592.99 Mhz | 2659.98 Mhz | | | |
| 60 Mhz | 30 | DFT-s | pi/2 BPSK | 1 | 1 | 21.37 | | 21.05 | | 20.80 | 0 |
| | | | | 1 | 81 | 21.48 | | 21.19 | | 21.06 | 0 |
| | | | | 1 | 160 | 21.20 | | 20.91 | | 20.75 | 0 |
| | | | | 81 | 0 | 21.15 | | 20.91 | | 20.70 | 0 |
| | | | | 81 | 41 | 21.14 | | 20.83 | | 20.70 | 0 |
| | | | | 81 | 81 | 21.15 | | 20.83 | | 20.71 | 0 |
| | | | 162 | 0 | 21.15 | | 20.88 | | 20.69 | 0 | |
| | | | QPSK | 1 | 1 | 21.31 | | 20.88 | | 20.78 | 0 |
| | | | | 1 | 81 | 21.16 | | 20.89 | | 20.70 | 0 |
| | | | | 1 | 160 | 21.18 | | 20.85 | | 20.79 | 0 |
| | | | | 81 | 0 | 21.14 | | 20.91 | | 20.69 | 0 |
| | | | | 81 | 41 | 21.16 | | 20.81 | | 20.65 | 0 |
| | | | | 81 | 81 | 21.14 | | 20.82 | | 20.66 | 0 |
| | | | 162 | 0 | 21.18 | | 20.82 | | 20.67 | 0 | |
| 16QAM | 1 | 1 | 21.43 | | 21.06 | | 20.91 | 0 | | | |
| CP | QPSK | 1 | 1 | 21.38 | | 20.97 | | 20.81 | 0 | | |

NR Band n41_80 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Max. Average Power (dBm) | | | | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|--------------------------|-------|-------|----------------|----------|
| | | | | | | 507204 | | | 529998 | |
| | | | | | | 2536.02 MHz | | | 2649.99 MHz | |
| 80 MHz | 30 | DFT-s | pi/2 BPSK | 1 | 1 | 21.57 | | | 21.14 | 0 |
| | | | | 1 | 109 | 21.32 | | | 21.06 | 0 |
| | | | | 1 | 215 | 21.14 | | | 20.87 | 0 |
| | | | | 108 | 0 | 21.34 | | | 21.02 | 0 |
| | | | | 108 | 55 | 21.28 | | | 20.98 | 0 |
| | | | | 108 | 109 | 21.32 | | | 20.98 | 0 |
| | | | 216 | 0 | 21.39 | | | 21.02 | 0 | |
| | | | QPSK | 1 | 1 | 21.46 | | | 21.23 | 0 |
| | | | | 1 | 109 | 21.27 | | | 20.82 | 0 |
| | | | | 1 | 215 | 21.16 | | | 20.84 | 0 |
| | | | | 108 | 0 | 21.40 | | | 21.12 | 0 |
| | | | | 108 | 55 | 21.32 | | | 21.05 | 0 |
| | | | | 108 | 109 | 21.38 | | | 21.03 | 0 |
| | | | 216 | 0 | 21.28 | | | 20.99 | 0 | |
| | | | 16QAM | 1 | 1 | 21.54 | | | 21.33 | 0 |
| | | | CP | QPSK | 1 | 1 | 21.50 | | | 21.17 |

NR Band n41_90 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Max. Average Power (dBm) | | | | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|--------------------------|-------|-------|----------------|----------|
| | | | | | | 508200 | | | 528996 | |
| | | | | | | 2541 MHz | | | 2644.98 MHz | |
| 90 MHz | 30 | DFT-s | pi/2 BPSK | 1 | 1 | 21.53 | | | 21.23 | 0 |
| | | | | 1 | 123 | 21.28 | | | 21.04 | 0 |
| | | | | 1 | 243 | 21.21 | | | 21.00 | 0 |
| | | | | 120 | 0 | 21.44 | | | 21.11 | 0 |
| | | | | 120 | 63 | 21.35 | | | 21.05 | 0 |
| | | | | 120 | 125 | 21.40 | | | 20.95 | 0 |
| | | | 243 | 0 | 21.41 | | | 21.08 | 0 | |
| | | | QPSK | 1 | 1 | 21.55 | | | 21.13 | 0 |
| | | | | 1 | 123 | 21.34 | | | 20.99 | 0 |
| | | | | 1 | 243 | 21.27 | | | 20.98 | 0 |
| | | | | 120 | 0 | 21.47 | | | 21.07 | 0 |
| | | | | 120 | 63 | 21.37 | | | 20.98 | 0 |
| | | | | 120 | 125 | 21.36 | | | 20.93 | 0 |
| | | | 243 | 0 | 21.39 | | | 21.15 | 0 | |
| | | | 16QAM | 1 | 1 | 21.53 | | | 21.28 | 0 |
| | | | CP | QPSK | 1 | 1 | 21.53 | | | 21.18 |

NR Band n41 _100 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Max. Average Power (dBm) | | | | MPR [dB] | |
|-----------|----------|-------|------------|---------|-----------|--------------------------|--|---------|-------|----------|---|
| | | | | | | | | 518598 | | | |
| 100 MHz | 30 | DFT-s | pi/2 BPSK | 1 | 1 | | | 2592.99 | | | 0 |
| | | | | 1 | 137 | | | 21.39 | | | 0 |
| | | | | 1 | 271 | | | 21.08 | | | 0 |
| | | | | 135 | 0 | | | 20.99 | | | 0 |
| | | | | 135 | 69 | | | 21.33 | | | 0 |
| | | | | 135 | 138 | | | 21.08 | | | 0 |
| | | | | 270 | 0 | | | 21.04 | | | 0 |
| | | | QPSK | 1 | 1 | | | 21.26 | | | 0 |
| | | | | 1 | 137 | | | 21.38 | | | 0 |
| | | | | 1 | 271 | | | 21.09 | | | 0 |
| | | | | 135 | 0 | | | 20.93 | | | 0 |
| | | | | 135 | 69 | | | 21.32 | | | 0 |
| | | | | 135 | 138 | | | 21.18 | | | 0 |
| | | | 16QAM | 1 | 1 | | | 21.09 | | | 0 |
| | | | | 1 | 1 | | | 21.12 | | | 0 |
| | | | CP | QPSK | 1 | 1 | | | | 21.45 | |
| | | | | | | | | | 21.34 | | 0 |

NR Band n41 at 100 MHz Bandwidth does not support three non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

[NR Band n66 Conducted Power]

NR Band n66 _5 Mhz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|------------|------------|----------|
| | | | | | | 342500 | 346820 | 351160 | 355500 | |
| | | | | | | 1712.5 MHz | 1734.1 MHz | 1755.8 MHz | 1777.5 MHz | |
| 5 Mhz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 19.15 | 19.14 | 19.32 | 19.12 | 0 |
| | | | | 1 | 13 | 19.20 | 19.16 | 19.30 | 19.02 | 0 |
| | | | | 1 | 23 | 19.09 | 19.16 | 19.25 | 19.02 | 0 |
| | | | | 12 | 0 | 19.02 | 19.09 | 19.18 | 19.00 | 0 |
| | | | | 12 | 7 | 19.04 | 19.07 | 19.22 | 18.96 | 0 |
| | | | | 12 | 13 | 19.02 | 19.05 | 19.15 | 18.95 | 0 |
| | | | QPSK | 25 | 0 | 19.09 | 19.10 | 19.17 | 19.00 | 0 |
| | | | | 1 | 1 | 19.02 | 19.04 | 19.18 | 18.98 | 0 |
| | | | | 1 | 13 | 19.02 | 18.98 | 19.04 | 18.86 | 0 |
| | | | | 1 | 23 | 19.01 | 18.79 | 19.07 | 18.80 | 0 |
| | | | | 12 | 0 | 19.03 | 19.04 | 19.18 | 18.99 | 0 |
| | | | | 12 | 7 | 19.00 | 19.08 | 19.18 | 18.96 | 0 |
| | | | | 12 | 13 | 18.95 | 19.02 | 19.13 | 18.88 | 0 |
| | | | | 25 | 0 | 19.04 | 19.09 | 19.15 | 19.01 | 0 |
| | | | 16QAM | 1 | 1 | 19.34 | 19.32 | 19.44 | 19.25 | 0 |
| | | | CP | QPSK | 1 | 1 | 19.09 | 19.06 | 19.16 | 18.98 |

NR Band n66 _10 Mhz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|----------|----------|----------|
| | | | | | | 343000 | 347000 | 351000 | 355000 | |
| | | | | | | 1715 MHz | 1735 MHz | 1755 MHz | 1775 MHz | |
| 10 Mhz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 19.25 | 19.24 | 19.32 | 19.26 | 0 |
| | | | | 1 | 26 | 19.46 | 19.42 | 19.48 | 19.39 | 0 |
| | | | | 1 | 50 | 19.14 | 19.18 | 19.20 | 19.04 | 0 |
| | | | | 25 | 0 | 19.11 | 19.10 | 19.22 | 19.07 | 0 |
| | | | | 25 | 14 | 19.11 | 19.15 | 19.19 | 19.05 | 0 |
| | | | | 25 | 27 | 19.10 | 19.11 | 19.08 | 18.97 | 0 |
| | | | QPSK | 50 | 0 | 19.11 | 19.20 | 19.21 | 19.08 | 0 |
| | | | | 1 | 1 | 19.07 | 19.11 | 19.18 | 19.09 | 0 |
| | | | | 1 | 26 | 19.28 | 19.23 | 19.23 | 19.07 | 0 |
| | | | | 1 | 50 | 19.01 | 19.00 | 18.94 | 18.85 | 0 |
| | | | | 25 | 0 | 19.07 | 19.13 | 19.22 | 19.09 | 0 |
| | | | | 25 | 14 | 19.11 | 19.11 | 19.18 | 19.04 | 0 |
| | | | | 25 | 27 | 19.07 | 19.11 | 19.14 | 18.95 | 0 |
| | | | | 50 | 0 | 19.12 | 19.14 | 19.20 | 18.99 | 0 |
| | | | 16QAM | 1 | 1 | 19.49 | 19.38 | 19.44 | 19.40 | 0 |
| | | | CP | QPSK | 1 | 1 | 19.21 | 19.11 | 19.21 | 19.14 |

NR Band n66 _ 15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | | MPR [dB] | |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|------------|------------|----------|---|
| | | | | | | 343500 | 347160 | 350820 | 354500 | | |
| | | | | | | 1717.5 MHz | 1735.8 MHz | 1754.1 MHz | 1772.5 MHz | | |
| 15 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 19.11 | 19.18 | 19.29 | 19.22 | 0 | |
| | | | | 1 | 40 | 19.18 | 19.08 | 19.15 | 19.16 | 0 | |
| | | | | 1 | 77 | 19.29 | 19.27 | 19.08 | 18.96 | 0 | |
| | | | | 36 | 0 | 19.07 | 19.10 | 19.06 | 19.13 | 0 | |
| | | | | 36 | 22 | 19.03 | 19.06 | 18.98 | 18.93 | 0 | |
| | | | | 36 | 43 | 18.97 | 19.08 | 18.95 | 18.83 | 0 | |
| | | | 75 | 0 | 19.06 | 19.11 | 19.01 | 19.00 | 0 | | |
| | | | QPSK | 1 | 1 | 18.98 | 19.00 | 19.11 | 19.05 | 0 | |
| | | | | 1 | 40 | 18.95 | 18.92 | 18.94 | 18.87 | 0 | |
| | | | | 1 | 77 | 18.98 | 19.10 | 18.89 | 18.74 | 0 | |
| | | | | 36 | 0 | 19.12 | 19.13 | 19.07 | 19.04 | 0 | |
| | | | | 36 | 22 | 19.00 | 19.07 | 18.99 | 18.93 | 0 | |
| | | | | 36 | 43 | 18.97 | 19.09 | 19.00 | 18.91 | 0 | |
| | | | 75 | 0 | 19.11 | 19.15 | 19.12 | 19.03 | 0 | | |
| | | | 16QAM | 1 | 1 | 19.38 | 19.27 | 19.32 | 19.41 | 0 | |
| | | | CP | QPSK | 1 | 1 | 19.11 | 19.04 | 19.10 | 19.11 | 0 |

NR Band n66 _ 20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | | MPR [dB] | |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|-------|----------|----------|---|
| | | | | | | 344000 | 349000 | | 354000 | | |
| | | | | | | 1720 MHz | 1745 MHz | | 1770 MHz | | |
| 20 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 19.16 | 19.26 | | 19.26 | 0 | |
| | | | | 1 | 53 | 19.48 | 19.47 | | 19.38 | 0 | |
| | | | | 1 | 104 | 19.12 | 19.30 | | 19.06 | 0 | |
| | | | | 50 | 0 | 19.05 | 19.20 | | 19.15 | 0 | |
| | | | | 50 | 28 | 18.98 | 19.12 | | 19.05 | 0 | |
| | | | | 50 | 56 | 18.87 | 19.06 | | 18.93 | 0 | |
| | | | 100 | 0 | 19.05 | 19.08 | | 19.01 | 0 | | |
| | | | QPSK | 1 | 1 | 19.11 | 19.07 | | 19.03 | 0 | |
| | | | | 1 | 53 | 19.07 | 19.05 | | 18.93 | 0 | |
| | | | | 1 | 104 | 18.92 | 19.03 | | 18.89 | 0 | |
| | | | | 50 | 0 | 19.09 | 19.20 | | 19.13 | 0 | |
| | | | | 50 | 28 | 19.01 | 19.12 | | 19.06 | 0 | |
| | | | | 50 | 56 | 18.93 | 19.08 | | 18.92 | 0 | |
| | | | 100 | 0 | 19.08 | 19.13 | | 19.00 | 0 | | |
| | | | 16QAM | 1 | 1 | 19.42 | 19.40 | | 19.35 | 0 | |
| | | | CP | QPSK | 1 | 1 | 19.17 | 19.12 | | 19.08 | 0 |

11.5.3 NR Band Reduced Conducted Power (Grip-sensor on, EARJACK DSI=1,4)

DSI =1,4 PLimit Calculations - 5G Phablet Reduced SAR

[NR Band n2 Conducted Power]

NR Band n2_ 5 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR [dB] | |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|------------|----------|---|
| | | | | | | 370500 | 376000 | 381500 | | |
| | | | | | | 1852.5 MHz | 1880 MHz | 1907.5 MHz | | |
| 5 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 18.71 | 18.64 | 18.82 | 0 | |
| | | | | 1 | 13 | 18.69 | 18.66 | 18.83 | 0 | |
| | | | | 1 | 23 | 18.74 | 18.68 | 18.90 | 0 | |
| | | | | 12 | 0 | 18.57 | 18.54 | 18.75 | 0 | |
| | | | | 12 | 7 | 18.71 | 18.64 | 18.76 | 0 | |
| | | | | 12 | 13 | 18.59 | 18.59 | 18.83 | 0 | |
| | | | 25 | 0 | 18.65 | 18.68 | 18.74 | 0 | | |
| | | | QPSK | 1 | 1 | 18.59 | 18.52 | 18.69 | 0 | |
| | | | | 1 | 13 | 18.57 | 18.54 | 18.71 | 0 | |
| | | | | 1 | 23 | 18.67 | 18.53 | 18.80 | 0 | |
| | | | | 12 | 0 | 18.67 | 18.55 | 18.73 | 0 | |
| | | | | 12 | 7 | 18.67 | 18.54 | 18.78 | 0 | |
| | | | | 12 | 13 | 18.70 | 18.54 | 18.83 | 0 | |
| | | | 25 | 0 | 18.61 | 18.57 | 18.80 | 0 | | |
| | | | 16QAM | 1 | 1 | 18.87 | 18.78 | 19.01 | 0 | |
| | | | CP | QPSK | 1 | 1 | 18.55 | 18.58 | 18.76 | 0 |

NR Band n2_ 10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR [dB] | |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|----------|----------|---|
| | | | | | | 371000 | 376000 | 381000 | | |
| | | | | | | 1855 MHz | 1880 MHz | 1905 MHz | | |
| 10 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 18.74 | 18.69 | 18.85 | 0 | |
| | | | | 1 | 26 | 19.28 | 19.10 | 19.20 | 0 | |
| | | | | 1 | 50 | 18.76 | 18.68 | 18.90 | 0 | |
| | | | | 25 | 0 | 18.66 | 18.58 | 18.78 | 0 | |
| | | | | 25 | 14 | 18.70 | 18.56 | 18.82 | 0 | |
| | | | | 25 | 27 | 18.67 | 18.61 | 18.80 | 0 | |
| | | | 50 | 0 | 18.65 | 18.61 | 18.84 | 0 | | |
| | | | QPSK | 1 | 1 | 18.61 | 18.61 | 18.71 | 0 | |
| | | | | 1 | 26 | 18.56 | 18.58 | 18.76 | 0 | |
| | | | | 1 | 50 | 18.56 | 18.53 | 18.80 | 0 | |
| | | | | 25 | 0 | 18.68 | 18.57 | 18.76 | 0 | |
| | | | | 25 | 14 | 18.67 | 18.58 | 18.80 | 0 | |
| | | | | 25 | 27 | 18.69 | 18.67 | 18.83 | 0 | |
| | | | 50 | 0 | 18.72 | 18.62 | 18.82 | 0 | | |
| | | | 16QAM | 1 | 1 | 18.92 | 18.82 | 19.03 | 0 | |
| | | | CP | QPSK | 1 | 1 | 18.69 | 18.65 | 18.79 | 0 |

NR Band n2 _ 15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR [dB] | |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|------------|----------|---|
| | | | | | | 371500 | 376000 | 380500 | | |
| | | | | | | 1857.5 MHz | 1880 MHz | 1902.5 MHz | | |
| 15 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 18.80 | 18.73 | 18.77 | 0 | |
| | | | | 1 | 40 | 18.71 | 18.61 | 18.80 | 0 | |
| | | | | 1 | 77 | 18.73 | 18.64 | 18.94 | 0 | |
| | | | | 36 | 0 | 18.68 | 18.63 | 18.86 | 0 | |
| | | | | 36 | 22 | 18.62 | 18.64 | 18.81 | 0 | |
| | | | | 36 | 43 | 18.71 | 18.67 | 18.90 | 0 | |
| | | | 75 | 0 | 18.66 | 18.65 | 18.82 | 0 | | |
| | | | QPSK | 1 | 1 | 18.66 | 18.59 | 18.74 | 0 | |
| | | | | 1 | 40 | 18.56 | 18.54 | 18.71 | 0 | |
| | | | | 1 | 77 | 18.48 | 18.52 | 18.83 | 0 | |
| | | | | 36 | 0 | 18.67 | 18.62 | 18.81 | 0 | |
| | | | | 36 | 22 | 18.65 | 18.65 | 18.85 | 0 | |
| | | | | 36 | 43 | 18.66 | 18.59 | 18.91 | 0 | |
| | | | 75 | 0 | 18.65 | 18.61 | 18.84 | 0 | | |
| | | | 16QAM | 1 | 1 | 18.95 | 18.81 | 19.00 | 0 | |
| | | | CP | QPSK | 1 | 1 | 18.69 | 18.62 | 18.81 | 0 |

NR Band n2 _ 20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR [dB] | |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|----------|----------|---|
| | | | | | | 372000 | 376000 | 380000 | | |
| | | | | | | 1860 MHz | 1880 MHz | 1900 MHz | | |
| 20 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 18.76 | 18.77 | 18.72 | 0 | |
| | | | | 1 | 53 | 19.06 | 19.00 | 19.16 | 0 | |
| | | | | 1 | 104 | 18.60 | 18.70 | 18.94 | 0 | |
| | | | | 50 | 0 | 18.65 | 18.69 | 18.74 | 0 | |
| | | | | 50 | 28 | 18.64 | 18.62 | 18.81 | 0 | |
| | | | | 50 | 56 | 18.57 | 18.66 | 18.73 | 0 | |
| | | | 100 | 0 | 18.61 | 18.67 | 18.80 | 0 | | |
| | | | QPSK | 1 | 1 | 18.61 | 18.61 | 18.59 | 0 | |
| | | | | 1 | 53 | 18.58 | 18.54 | 18.76 | 0 | |
| | | | | 1 | 104 | 18.37 | 18.59 | 18.70 | 0 | |
| | | | | 50 | 0 | 18.62 | 18.64 | 18.73 | 0 | |
| | | | | 50 | 28 | 18.64 | 18.63 | 18.80 | 0 | |
| | | | | 50 | 56 | 18.63 | 18.60 | 18.81 | 0 | |
| | | | 100 | 0 | 18.63 | 18.60 | 18.80 | 0 | | |
| | | | 16QAM | 1 | 1 | 18.85 | 18.83 | 18.80 | 0 | |
| | | | CP | QPSK | 1 | 1 | 18.65 | 18.63 | 18.67 | 0 |

[NR Band n25 Conducted Power]

NR Band n25 _ 5 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|------------|----------|
| | | | | | | 370500 | 376500 | 382500 | |
| | | | | | | 1852.5 MHz | 1882.5 MHz | 1912.5 MHz | |
| 5 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 18.64 | 18.62 | 19.04 | 0 |
| | | | | 1 | 13 | 18.82 | 18.67 | 19.06 | 0 |
| | | | | 1 | 23 | 18.86 | 18.76 | 19.01 | 0 |
| | | | | 12 | 0 | 18.69 | 18.60 | 18.92 | 0 |
| | | | | 12 | 7 | 18.83 | 18.66 | 19.00 | 0 |
| | | | | 12 | 13 | 18.85 | 18.73 | 19.03 | 0 |
| | | | 25 | 0 | 18.85 | 18.62 | 18.99 | 0 | |
| | | | QPSK | 1 | 1 | 18.64 | 18.60 | 18.92 | 0 |
| | | | | 1 | 13 | 18.69 | 18.53 | 18.88 | 0 |
| | | | | 1 | 23 | 18.69 | 18.57 | 18.97 | 0 |
| | | | | 12 | 0 | 18.77 | 18.56 | 18.96 | 0 |
| | | | | 12 | 7 | 18.78 | 18.62 | 18.96 | 0 |
| | | | | 12 | 13 | 18.81 | 18.63 | 19.03 | 0 |
| | | | 25 | 0 | 18.75 | 18.64 | 18.99 | 0 | |
| | | | 16QAM | 1 | 1 | 18.96 | 18.86 | 19.17 | 0 |
| | | | CP | QPSK | 1 | 1 | 18.69 | 18.59 | 18.89 |

NR Band n25 _ 10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|--------------|----------|----------|
| | | | | | | 371000 | 376500 | 382000 | |
| | | | | | | 1855 MHz | 1882.5 MHz | 1910 MHz | |
| 10 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 18.85 | 18.76 | 19.05 | 0 |
| | | | | 1 | 26 | 19.22 | 19.13 | 19.33 | 0 |
| | | | | 1 | 50 | 18.79 | 18.71 | 18.96 | 0 |
| | | | | 25 | 0 | 18.78 | 18.67 | 18.95 | 0 |
| | | | | 25 | 14 | 18.82 | 18.67 | 18.94 | 0 |
| | | | | 25 | 27 | 18.76 | 18.66 | 18.92 | 0 |
| | | | 50 | 0 | 18.78 | 18.67 | 18.96 | 0 | |
| | | | QPSK | 1 | 1 | 18.74 | 18.62 | 18.90 | 0 |
| | | | | 1 | 26 | 18.72 | 18.73 | 19.15 | 0 |
| | | | | 1 | 50 | 18.64 | 18.57 | 18.87 | 0 |
| | | | | 25 | 0 | 18.82 | 18.67 | 18.95 | 0 |
| | | | | 25 | 14 | 18.74 | 18.68 | 18.97 | 0 |
| | | | | 25 | 27 | 18.80 | 18.72 | 18.95 | 0 |
| | | | 50 | 0 | 18.82 | 18.70 | 18.91 | 0 | |
| | | | 16QAM | 1 | 1 | 19.04 | 18.89 | 19.19 | 0 |
| | | | CP | QPSK | 1 | 1 | 18.74 | 18.62 | 18.91 |

NR Band n25 _ 15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|------------|----------|
| | | | | | | 371500 | 376500 | 381500 | |
| | | | | | | 1857.5 MHz | 1882.5 MHz | 1907.5 MHz | |
| 15 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 18.90 | 18.83 | 19.05 | 0 |
| | | | | 1 | 40 | 18.83 | 18.71 | 18.98 | 0 |
| | | | | 1 | 77 | 18.76 | 18.76 | 18.96 | 0 |
| | | | | 36 | 0 | 18.83 | 18.75 | 19.01 | 0 |
| | | | | 36 | 22 | 18.73 | 18.67 | 18.94 | 0 |
| | | | | 36 | 43 | 18.70 | 18.6 | 18.95 | 0 |
| | | | | 75 | 0 | 18.81 | 18.66 | 18.93 | 0 |
| | | | QPSK | 1 | 1 | 18.76 | 18.68 | 18.92 | 0 |
| | | | | 1 | 40 | 18.72 | 18.63 | 18.89 | 0 |
| | | | | 1 | 77 | 18.63 | 18.60 | 18.86 | 0 |
| | | | | 36 | 0 | 18.82 | 18.71 | 18.96 | 0 |
| | | | | 36 | 22 | 18.75 | 18.70 | 18.94 | 0 |
| | | | | 36 | 43 | 18.74 | 18.66 | 18.90 | 0 |
| | | | | 75 | 0 | 18.79 | 18.67 | 18.94 | 0 |
| | | | 16QAM | 1 | 1 | 19.11 | 19.00 | 19.19 | 0 |
| CP | QPSK | 1 | 1 | 18.83 | 18.70 | 18.92 | 0 | | |

NR Band n25 _ 20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|----------|----------|
| | | | | | | 372000 | 376500 | 381000 | |
| | | | | | | 1860 MHz | 1882.5 MHz | 1905 MHz | |
| 20 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 18.94 | 18.85 | 19.00 | 0 |
| | | | | 1 | 53 | 19.09 | 19.15 | 19.22 | 0 |
| | | | | 1 | 104 | 18.67 | 18.69 | 19.02 | 0 |
| | | | | 50 | 0 | 18.82 | 18.75 | 19.01 | 0 |
| | | | | 50 | 28 | 18.71 | 18.69 | 18.97 | 0 |
| | | | | 50 | 56 | 18.70 | 18.67 | 18.95 | 0 |
| | | | | 100 | 0 | 18.69 | 18.69 | 18.97 | 0 |
| | | | QPSK | 1 | 1 | 18.75 | 18.72 | 18.80 | 0 |
| | | | | 1 | 53 | 18.75 | 18.73 | 18.99 | 0 |
| | | | | 1 | 104 | 18.44 | 18.61 | 18.88 | 0 |
| | | | | 50 | 0 | 18.79 | 18.69 | 19.04 | 0 |
| | | | | 50 | 28 | 18.74 | 18.68 | 18.94 | 0 |
| | | | | 50 | 56 | 18.63 | 18.63 | 18.95 | 0 |
| | | | | 100 | 0 | 18.73 | 18.67 | 18.96 | 0 |
| | | | 16QAM | 1 | 1 | 19.04 | 19.01 | 19.13 | 0 |
| CP | QPSK | 1 | 1 | 18.76 | 18.72 | 18.83 | 0 | | |

[NR Band n41 Conducted Power]

NR Band n41 _20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Max. Average Power (dBm) | | | | | MPR [dB] | |
|-----------|----------|-------|------------|---------|-----------|--------------------------|---------|---------|---------|---------|----------|---|
| | | | | | | 501204 | 509898 | 518598 | 527298 | 535998 | | |
| | | | | | | 2506.02 | 2549.49 | 2592.99 | 2636.49 | 2679.99 | | |
| | | | | | | MHz | MHz | MHz | MHz | MHz | | |
| 20 MHz | 30 | DFT-s | pi/2 BPSK | 1 | 1 | 21.44 | 21.29 | 20.95 | 20.89 | 20.86 | 0 | |
| | | | | 1 | 26 | 21.35 | 21.12 | 20.83 | 20.76 | 20.80 | 0 | |
| | | | | 1 | 49 | 21.40 | 21.19 | 20.83 | 20.81 | 20.79 | 0 | |
| | | | | 25 | 0 | 21.39 | 21.14 | 20.85 | 20.78 | 20.70 | 0 | |
| | | | | 25 | 13 | 21.37 | 21.15 | 20.77 | 20.72 | 20.66 | 0 | |
| | | | | 25 | 26 | 21.33 | 21.10 | 20.76 | 20.67 | 20.67 | 0 | |
| | | | QPSK | 50 | 0 | 21.34 | 21.10 | 20.80 | 20.71 | 20.69 | 0 | |
| | | | | 1 | 1 | 21.40 | 21.24 | 20.85 | 20.86 | 20.83 | 0 | |
| | | | | 1 | 26 | 21.24 | 20.98 | 20.74 | 20.78 | 20.70 | 0 | |
| | | | | 1 | 49 | 21.35 | 21.17 | 20.72 | 20.73 | 20.69 | 0 | |
| | | | | 25 | 0 | 21.35 | 21.17 | 20.82 | 20.75 | 20.68 | 0 | |
| | | | | 25 | 13 | 21.30 | 21.11 | 20.79 | 20.71 | 20.70 | 0 | |
| | | | 16QAM | 25 | 26 | 21.31 | 21.09 | 20.75 | 20.69 | 20.67 | 0 | |
| | | | | 50 | 0 | 21.35 | 21.11 | 20.78 | 20.69 | 20.70 | 0 | |
| | | | | 1 | 1 | 21.51 | 21.33 | 20.99 | 21.02 | 21.01 | 0 | |
| | | | CP | QPSK | 1 | 1 | 21.46 | 21.15 | 20.94 | 20.82 | 20.71 | 0 |

NR Band n41 _40 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Max. Average Power (dBm) | | | | | MPR [dB] | |
|-----------|----------|-------|------------|---------|-----------|--------------------------|---------|-------|---------|--------|----------|---|
| | | | | | | 503202 | 513468 | | 523734 | 534000 | | |
| | | | | | | 2516.01 | 2567.34 | | 2618.67 | 2670 | | |
| | | | | | | MHz | MHz | | MHz | MHz | | |
| 40 MHz | 30 | DFT-s | pi/2 BPSK | 1 | 1 | 21.61 | 21.53 | | 21.39 | 21.27 | 0 | |
| | | | | 1 | 53 | 21.60 | 21.57 | | 21.21 | 21.20 | 0 | |
| | | | | 1 | 104 | 21.67 | 21.37 | | 21.19 | 21.15 | 0 | |
| | | | | 50 | 0 | 21.49 | 21.38 | | 21.24 | 21.14 | 0 | |
| | | | | 50 | 28 | 21.49 | 21.34 | | 21.22 | 21.12 | 0 | |
| | | | | 50 | 56 | 21.46 | 21.30 | | 21.17 | 21.11 | 0 | |
| | | | QPSK | 100 | 0 | 21.53 | 21.33 | | 21.22 | 21.12 | 0 | |
| | | | | 1 | 1 | 21.62 | 21.53 | | 21.36 | 21.20 | 0 | |
| | | | | 1 | 53 | 21.53 | 21.29 | | 21.14 | 21.15 | 0 | |
| | | | | 1 | 104 | 21.58 | 21.31 | | 21.14 | 21.18 | 0 | |
| | | | | 50 | 0 | 21.52 | 21.39 | | 21.24 | 21.15 | 0 | |
| | | | | 50 | 28 | 21.47 | 21.33 | | 21.18 | 21.08 | 0 | |
| | | | 16QAM | 50 | 56 | 21.54 | 21.30 | | 21.13 | 21.11 | 0 | |
| | | | | 100 | 0 | 21.52 | 21.35 | | 21.20 | 21.15 | 0 | |
| | | | | 1 | 1 | 21.77 | 21.46 | | 21.36 | 21.25 | 0 | |
| | | | CP | QPSK | 1 | 1 | 21.62 | 21.46 | | 21.31 | 21.19 | 0 |

NR Band n41_50 Mhz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Max. Average Power (dBm) | | | MPR [dB] | |
|-----------|----------|-------|------------|---------|-----------|--------------------------|-------------|-------------|----------|---|
| | | | | | | 504204 | 518598 | 532998 | | |
| | | | | | | 2521.02 Mhz | 2592.99 Mhz | 2664.99 Mhz | | |
| 50 Mhz | 30 | DFT-s | pi/2 BPSK | 1 | 1 | 21.24 | | 21.07 | 20.81 | 0 |
| | | | | 1 | 67 | 21.13 | | 20.84 | 20.69 | 0 |
| | | | | 1 | 131 | 21.26 | | 20.90 | 20.84 | 0 |
| | | | | 64 | 0 | 21.12 | | 20.85 | 20.65 | 0 |
| | | | | 64 | 35 | 21.15 | | 20.83 | 20.63 | 0 |
| | | | | 64 | 69 | 21.19 | | 20.82 | 20.61 | 0 |
| | | | 128 | 0 | 21.17 | | 20.87 | 20.62 | 0 | |
| | | | QPSK | 1 | 1 | 21.25 | | 21.01 | 20.78 | 0 |
| | | | | 1 | 67 | 21.06 | | 20.73 | 20.54 | 0 |
| | | | | 1 | 131 | 21.21 | | 20.84 | 20.81 | 0 |
| | | | | 64 | 0 | 21.15 | | 20.84 | 20.60 | 0 |
| | | | | 64 | 35 | 21.13 | | 20.81 | 20.62 | 0 |
| | | | | 64 | 69 | 21.17 | | 20.78 | 20.69 | 0 |
| | | | 128 | 0 | 21.14 | | 20.83 | 20.63 | 0 | |
| | | | 16QAM | 1 | 1 | 21.32 | | 21.10 | 20.86 | 0 |
| | | CP | QPSK | 1 | 1 | 21.28 | | 21.05 | 20.77 | 0 |

NR Band n41_60 Mhz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Max. Average Power (dBm) | | | MPR [dB] | |
|-----------|----------|-------|------------|---------|-----------|--------------------------|-------------|-------------|----------|---|
| | | | | | | 505200 | 518598 | 531996 | | |
| | | | | | | 2526 Mhz | 2592.99 Mhz | 2659.98 Mhz | | |
| 60 Mhz | 30 | DFT-s | pi/2 BPSK | 1 | 1 | 21.33 | | 21.05 | 20.90 | 0 |
| | | | | 1 | 81 | 21.45 | | 21.13 | 21.01 | 0 |
| | | | | 1 | 160 | 21.21 | | 20.90 | 20.76 | 0 |
| | | | | 81 | 0 | 21.16 | | 20.91 | 20.74 | 0 |
| | | | | 81 | 41 | 21.13 | | 20.84 | 20.71 | 0 |
| | | | | 81 | 81 | 21.12 | | 20.84 | 20.65 | 0 |
| | | | 162 | 0 | 21.16 | | 20.85 | 20.68 | 0 | |
| | | | QPSK | 1 | 1 | 21.30 | | 20.90 | 20.78 | 0 |
| | | | | 1 | 81 | 21.18 | | 20.90 | 20.73 | 0 |
| | | | | 1 | 160 | 21.14 | | 20.85 | 20.78 | 0 |
| | | | | 81 | 0 | 21.16 | | 20.91 | 20.75 | 0 |
| | | | | 81 | 41 | 21.13 | | 20.84 | 20.67 | 0 |
| | | | | 81 | 81 | 21.16 | | 20.81 | 20.68 | 0 |
| | | | 162 | 0 | 21.20 | | 20.87 | 20.70 | 0 | |
| | | | 16QAM | 1 | 1 | 21.41 | | 21.10 | 20.92 | 0 |
| | | CP | QPSK | 1 | 1 | 21.28 | | 20.98 | 20.86 | 0 |

NR Band n41_80 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Max. Average Power (dBm) | | | | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|--------------------------|--|-------|----------------|----------|
| | | | | | | 507204 | | | 529998 | |
| | | | | | | 2536.02 MHz | | | 2649.99 MHz | |
| 80 MHz | 30 | DFT-s | pi/2 BPSK | 1 | 1 | 21.53 | | | 21.28 | 0 |
| | | | | 1 | 109 | 21.31 | | | 20.87 | 0 |
| | | | | 1 | 215 | 21.26 | | | 20.83 | 0 |
| | | | | 108 | 0 | 21.43 | | | 21.14 | 0 |
| | | | | 108 | 55 | 21.31 | | | 20.99 | 0 |
| | | | | 108 | 109 | 21.43 | | | 20.93 | 0 |
| | | | 216 | 0 | 21.47 | | | 20.93 | 0 | |
| | | | QPSK | 1 | 1 | 21.54 | | | 21.20 | 0 |
| | | | | 1 | 109 | 21.30 | | | 20.90 | 0 |
| | | | | 1 | 215 | 21.04 | | | 20.85 | 0 |
| | | | | 108 | 0 | 21.39 | | | 21.01 | 0 |
| | | | | 108 | 55 | 21.41 | | | 20.94 | 0 |
| | | | | 108 | 109 | 21.24 | | | 20.91 | 0 |
| | | | 216 | 0 | 21.48 | | | 21.04 | 0 | |
| | | | 16QAM | 1 | 1 | 21.59 | | | 21.26 | 0 |
| | | CP | QPSK | 1 | 1 | 21.47 | | | 21.10 | 0 |

NR Band n41_90 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Max. Average Power (dBm) | | | | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|--------------------------|--|-------|----------------|----------|
| | | | | | | 508200 | | | 528996 | |
| | | | | | | 2541 MHz | | | 2644.98 MHz | |
| 90 MHz | 30 | DFT-s | pi/2 BPSK | 1 | 1 | 21.60 | | | 21.27 | 0 |
| | | | | 1 | 123 | 21.27 | | | 20.98 | 0 |
| | | | | 1 | 243 | 21.15 | | | 21.05 | 0 |
| | | | | 120 | 0 | 21.36 | | | 21.09 | 0 |
| | | | | 120 | 63 | 21.40 | | | 20.97 | 0 |
| | | | | 120 | 125 | 21.35 | | | 20.94 | 0 |
| | | | 243 | 0 | 21.36 | | | 21.01 | 0 | |
| | | | QPSK | 1 | 1 | 21.60 | | | 21.23 | 0 |
| | | | | 1 | 123 | 21.37 | | | 20.98 | 0 |
| | | | | 1 | 243 | 21.20 | | | 21.02 | 0 |
| | | | | 120 | 0 | 21.53 | | | 21.06 | 0 |
| | | | | 120 | 63 | 21.46 | | | 20.99 | 0 |
| | | | | 120 | 125 | 21.22 | | | 20.97 | 0 |
| | | | 243 | 0 | 21.33 | | | 21.05 | 0 | |
| | | | 16QAM | 1 | 1 | 21.63 | | | 21.23 | 0 |
| | | CP | QPSK | 1 | 1 | 21.45 | | | 21.15 | 0 |

NR Band n41 _100 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Max. Average Power (dBm) | | | | MPR [dB] | |
|-----------|----------|-------|------------|---------|-----------|--------------------------|--|---------|-------|----------|---|
| | | | | | | | | 518598 | | | |
| 100 MHz | 30 | DFT-s | pi/2 BPSK | 1 | 1 | | | 2592.99 | | | 0 |
| | | | | 1 | 137 | | | 21.39 | | | 0 |
| | | | | 1 | 271 | | | 21.08 | | | 0 |
| | | | | 135 | 0 | | | 21.06 | | | 0 |
| | | | | 135 | 69 | | | 21.34 | | | 0 |
| | | | | 135 | 138 | | | 21.21 | | | 0 |
| | | | | 270 | 0 | | | 21.10 | | | 0 |
| | | | QPSK | 1 | 1 | | | 21.14 | | | 0 |
| | | | | 1 | 137 | | | 21.31 | | | 0 |
| | | | | 1 | 271 | | | 21.13 | | | 0 |
| | | | | 135 | 0 | | | 21.00 | | | 0 |
| | | | | 135 | 69 | | | 21.28 | | | 0 |
| | | | | 135 | 138 | | | 21.20 | | | 0 |
| | | | 16QAM | 1 | 1 | | | 21.15 | | | 0 |
| | | | | 270 | 0 | | | 21.30 | | | 0 |
| | | | CP | QPSK | 1 | 1 | | | | 21.40 | |
| | | | | | | | | | 21.28 | | 0 |

NR Band n41 at 100 MHz Bandwidth does not support three non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

[NR Band n66 Conducted Power]

NR Band n66 _5 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | | MPR [dB] | |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|------------|------------|----------|-------|
| | | | | | | 342500 | 346820 | 351160 | 355500 | | |
| | | | | | | 1712.5 MHz | 1734.1 MHz | 1755.8 MHz | 1777.5 MHz | | |
| 5 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 19.11 | 19.16 | 19.34 | 19.19 | 0 | |
| | | | | 1 | 13 | 19.18 | 19.17 | 19.28 | 19.05 | 0 | |
| | | | | 1 | 23 | 19.13 | 19.11 | 19.16 | 19.01 | 0 | |
| | | | | 12 | 0 | 19.07 | 19.11 | 19.20 | 19.05 | 0 | |
| | | | | 12 | 7 | 19.02 | 19.08 | 19.23 | 19.02 | 0 | |
| | | | | 12 | 13 | 19.05 | 19.05 | 19.20 | 18.95 | 0 | |
| | | | QPSK | 25 | 0 | 19.04 | 19.08 | 19.16 | 18.96 | 0 | |
| | | | | 1 | 1 | 18.96 | 19.01 | 19.13 | 18.95 | 0 | |
| | | | | 1 | 13 | 19.00 | 18.97 | 19.10 | 18.89 | 0 | |
| | | | | 1 | 23 | 19.03 | 18.97 | 19.03 | 18.83 | 0 | |
| | | | | 12 | 0 | 19.03 | 19.06 | 19.23 | 18.97 | 0 | |
| | | | | 12 | 7 | 19.05 | 19.09 | 19.19 | 19.00 | 0 | |
| | | | 16QAM | 12 | 13 | 19.02 | 19.04 | 19.15 | 18.93 | 0 | |
| | | | | 25 | 0 | 19.10 | 19.06 | 19.19 | 19.00 | 0 | |
| | | | CP | QPSK | 1 | 1 | 19.37 | 19.36 | 19.44 | 19.24 | 0 |
| | | | | | | QPSK | 1 | 1 | 19.07 | 19.05 | 19.16 |

NR Band n66 _10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | | MPR [dB] | |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|----------|----------|----------|-------|
| | | | | | | 343000 | 347000 | 351000 | 355000 | | |
| | | | | | | 1715 MHz | 1735 MHz | 1755 MHz | 1775 MHz | | |
| 10 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 19.25 | 19.24 | 19.36 | 19.18 | 0 | |
| | | | | 1 | 26 | 19.44 | 19.41 | 19.48 | 19.42 | 0 | |
| | | | | 1 | 50 | 19.14 | 19.14 | 19.19 | 19.02 | 0 | |
| | | | | 25 | 0 | 19.18 | 19.14 | 19.27 | 19.13 | 0 | |
| | | | | 25 | 14 | 19.15 | 19.14 | 19.21 | 19.06 | 0 | |
| | | | | 25 | 27 | 19.16 | 19.13 | 19.16 | 19.06 | 0 | |
| | | | | 50 | 0 | 19.13 | 19.15 | 19.21 | 19.08 | 0 | |
| | | | QPSK | 1 | 1 | 19.06 | 19.09 | 19.17 | 19.10 | 0 | |
| | | | | 1 | 26 | 19.24 | 19.27 | 19.31 | 19.08 | 0 | |
| | | | | 1 | 50 | 19.05 | 18.99 | 19.02 | 18.85 | 0 | |
| | | | | 25 | 0 | 19.14 | 19.16 | 19.24 | 19.14 | 0 | |
| | | | | 25 | 14 | 19.13 | 19.13 | 19.20 | 19.06 | 0 | |
| | | | 16QAM | 25 | 27 | 19.08 | 19.11 | 19.16 | 19.03 | 0 | |
| | | | | 50 | 0 | 19.13 | 19.15 | 19.22 | 19.07 | 0 | |
| | | | CP | QPSK | 1 | 1 | 19.43 | 19.40 | 19.43 | 19.38 | 0 |
| | | | | | | QPSK | 1 | 1 | 19.23 | 19.17 | 19.28 |

NR Band n66 _ 15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | | MPR [dB] | |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|------------|------------|----------|---|
| | | | | | | 343500 | 347160 | 350820 | 354500 | | |
| | | | | | | 1717.5 MHz | 1735.8 MHz | 1754.1 MHz | 1772.5 MHz | | |
| 15 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 19.07 | 19.21 | 19.17 | 19.16 | 0 | |
| | | | | 1 | 40 | 19.04 | 19.06 | 19.14 | 19.06 | 0 | |
| | | | | 1 | 77 | 19.24 | 19.23 | 19.06 | 18.96 | 0 | |
| | | | | 36 | 0 | 19.19 | 19.17 | 19.12 | 19.06 | 0 | |
| | | | | 36 | 22 | 19.01 | 19.10 | 19.02 | 18.97 | 0 | |
| | | | | 36 | 43 | 18.97 | 19.08 | 19.03 | 19.00 | 0 | |
| | | | 75 | 0 | 19.06 | 19.12 | 19.07 | 19.03 | 0 | | |
| | | | QPSK | 1 | 1 | 18.93 | 19.02 | 19.02 | 19.04 | 0 | |
| | | | | 1 | 40 | 18.89 | 18.89 | 18.90 | 18.86 | 0 | |
| | | | | 1 | 77 | 19.03 | 19.05 | 18.90 | 18.78 | 0 | |
| | | | | 36 | 0 | 19.14 | 19.21 | 19.03 | 19.08 | 0 | |
| | | | | 36 | 22 | 19.00 | 19.11 | 18.98 | 18.99 | 0 | |
| | | | | 36 | 43 | 18.97 | 19.08 | 18.98 | 18.93 | 0 | |
| | | | 75 | 0 | 19.14 | 19.17 | 19.05 | 19.02 | 0 | | |
| | | | 16QAM | 1 | 1 | 19.35 | 19.25 | 19.32 | 19.34 | 0 | |
| | | | CP | QPSK | 1 | 1 | 19.11 | 19.07 | 19.12 | 19.12 | 0 |

NR Band n66 _ 20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM | Modulation | RB Size | RB Offset | Reduced Power [dBm] | | | | MPR [dB] | |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|-------|----------|----------|---|
| | | | | | | 344000 | 349000 | | 354000 | | |
| | | | | | | 1720 MHz | 1745 MHz | | 1770 MHz | | |
| 20 MHz | 15 | DFT-s OFDM | PI/2 BPSK | 1 | 1 | 19.17 | 19.21 | | 19.22 | 0 | |
| | | | | 1 | 53 | 19.44 | 19.46 | | 19.43 | 0 | |
| | | | | 1 | 104 | 19.12 | 19.28 | | 19.04 | 0 | |
| | | | | 50 | 0 | 19.11 | 19.13 | | 19.09 | 0 | |
| | | | | 50 | 28 | 19.02 | 19.14 | | 19.05 | 0 | |
| | | | | 50 | 56 | 18.93 | 19.10 | | 18.94 | 0 | |
| | | | 100 | 0 | 19.03 | 19.12 | | 19.04 | 0 | | |
| | | | QPSK | 1 | 1 | 19.01 | 19.07 | | 19.04 | 0 | |
| | | | | 1 | 53 | 19.02 | 18.97 | | 18.92 | 0 | |
| | | | | 1 | 104 | 18.97 | 19.05 | | 18.83 | 0 | |
| | | | | 50 | 0 | 19.11 | 19.24 | | 19.10 | 0 | |
| | | | | 50 | 28 | 19.05 | 19.10 | | 19.04 | 0 | |
| | | | | 50 | 56 | 18.92 | 19.03 | | 18.96 | 0 | |
| | | | 100 | 0 | 19.10 | 19.13 | | 19.07 | 0 | | |
| | | | 16QAM | 1 | 1 | 19.42 | 19.38 | | 19.27 | 0 | |
| | | | CP | QPSK | 1 | 1 | 19.19 | 19.13 | | 19.08 | 0 |

11.6 WIFI Conducted Power measurement method

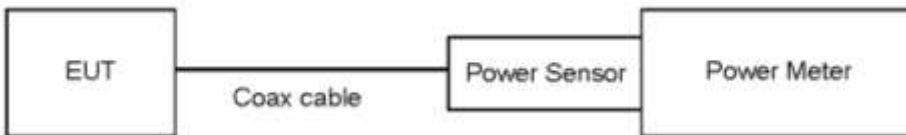
Un-Licensed bands (DTS Band)

| Test Description | Test Procedure Used |
|------------------------|--|
| Conducted Output Power | - KDB 558074 v05 - Section 8.3.2.3 - ANSI 63.10-2013 - Section 11.9.2.3 |

Test Procedure

1. Measure the duty cycle.
2. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
3. Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

Test setup



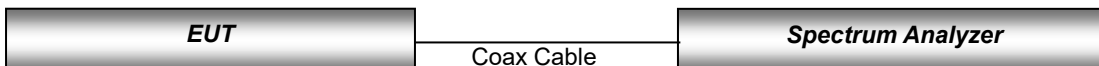
Un-Licensed bands (NII Band)

| Test Description | Test Procedure Used |
|------------------------|---|
| Conducted Output Power | - KDB 789033 D02 v02r01 - Section E.3.a |

Test Procedure

1. Measure the duty cycle.
2. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
3. Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

Test setup



11.6.1 IEEE 802.11 (2.4 GHz) Maximum Conducted Power

| Mode | Frequency [MHz] | Channel | IEEE 802.11 (2.4 GHz) Average RF Conducted Power [dBm] | | |
|----------------|-----------------|---------|--|-------|-------|
| | | | Ant.1 | Ant.2 | MIMO |
| 802.11b | 2 412 | 1 | 17.18 | 17.99 | 20.61 |
| | 2 437 | 6 | 18.10 | 17.95 | 21.03 |
| | 2 462 | 11 | 17.50 | 18.23 | 20.89 |
| | 2 467 | 12 | 6.56 | 7.69 | 10.17 |
| | 2 472 | 13 | 6.62 | 7.43 | 10.05 |
| 802.11g | 2 412 | 1 | 16.36 | 17.10 | 19.75 |
| | 2 437 | 6 | 17.23 | 17.09 | 20.17 |
| | 2 462 | 11 | 16.54 | 17.47 | 20.04 |
| | 2 467 | 12 | 6.58 | 7.65 | 10.16 |
| | 2 472 | 13 | 6.60 | 7.48 | 10.07 |
| 802.11n (HT20) | 2 412 | 1 | 16.13 | 16.80 | 19.49 |
| | 2 437 | 6 | 16.89 | 16.85 | 19.88 |
| | 2 462 | 11 | 16.34 | 17.00 | 19.69 |
| | 2 467 | 12 | 4.29 | 5.25 | 7.81 |
| | 2 472 | 13 | 4.22 | 5.03 | 7.65 |

11.6.2 IEEE 802.11 (2.4 GHz) Reduced Conducted Power (Held to ear VOIP)

| Mode | Frequency [MHz] | Channel | IEEE 802.11 (2.4 GHz) Average RF Conducted Power [dBm] | | |
|------------------|-----------------|---------|--|-------|-------|
| | | | Ant.1 | Ant.2 | MIMO |
| 802.11b | 2 412 | 1 | 11.95 | 12.19 | 15.08 |
| | 2 437 | 6 | 12.86 | 11.76 | 15.36 |
| | 2 462 | 11 | 12.55 | 12.17 | 15.37 |
| | 2 467 | 12 | 6.96 | 6.26 | 9.63 |
| | 2 472 | 13 | 6.80 | 5.94 | 9.55 |
| 802.11g | 2 412 | 1 | 11.12 | 11.35 | 14.25 |
| | 2 437 | 6 | 11.62 | 11.39 | 14.52 |
| | 2 462 | 11 | 11.83 | 11.38 | 14.62 |
| | 2 467 | 12 | 6.79 | 6.27 | 9.55 |
| | 2 472 | 13 | 6.73 | 6.07 | 9.42 |
| 802.11n (HT20) | 2 412 | 1 | 10.73 | 10.91 | 13.83 |
| | 2 437 | 6 | 11.21 | 10.99 | 14.11 |
| | 2 462 | 11 | 11.48 | 10.95 | 14.23 |
| | 2 467 | 12 | 4.44 | 3.99 | 7.23 |
| | 2 472 | 13 | 4.28 | 3.95 | 7.13 |
| 802.11ax (20MHz) | 2 412 | 1 | 12.09 | 12.03 | 15.07 |
| | 2 437 | 6 | 12.39 | 12.05 | 15.23 |
| | 2 462 | 11 | 12.57 | 12.07 | 15.34 |
| | 2 467 | 12 | 5.73 | 5.05 | 8.41 |
| | 2 472 | 13 | 4.89 | 4.85 | 7.88 |

11.6.3 IEEE 802.11 (5 GHz) Maximum Conducted Power

| Mode | Frequency [MHz] | Channel | IEEE 802.11 (5 GHz) Reduced Average Conducted Power [dBm] | | |
|------------------------|-----------------|---------|---|--------|-------|
| | | | Ant. 1 | Ant. 2 | MIMO |
| 802.11a (20 MHz BW) | 5 180 | 36 | 15.73 | 16.12 | 18.94 |
| | 5 200 | 40 | 15.78 | 16.09 | 18.95 |
| | 5 220 | 44 | 15.58 | 15.78 | 18.70 |
| | 5 240 | 48 | 15.33 | 15.44 | 18.40 |
| | 5 260 | 52 | 15.72 | 15.76 | 18.75 |
| | 5 280 | 56 | 15.49 | 15.65 | 18.58 |
| | 5 300 | 60 | 15.99 | 16.28 | 19.15 |
| | 5 320 | 64 | 15.74 | 15.98 | 18.87 |
| | 5 500 | 100 | 15.12 | 15.68 | 18.42 |
| | 5 600 | 120 | 14.61 | 15.59 | 18.14 |
| | 5 620 | 124 | 14.52 | 15.65 | 18.13 |
| | 5 720 | 144 | 13.89 | 14.65 | 17.30 |
| | 5 745 | 149 | 15.61 | 16.19 | 18.92 |
| | 5 785 | 157 | 15.76 | 16.47 | 19.14 |
| 5 825 | 165 | 15.50 | 15.69 | 18.60 | |
| 802.11n (20 MHz BW) | 5 180 | 36 | 15.41 | 15.87 | 18.66 |
| | 5 200 | 40 | 15.45 | 15.86 | 19.67 |
| | 5 220 | 44 | 14.90 | 15.52 | 18.23 |
| | 5 240 | 48 | 14.99 | 15.21 | 18.11 |
| | 5 260 | 52 | 15.38 | 15.53 | 18.47 |
| | 5 280 | 56 | 14.78 | 15.42 | 18.12 |
| | 5 300 | 60 | 15.62 | 16.04 | 18.85 |
| | 5 320 | 64 | 15.33 | 15.75 | 18.56 |
| | 5 500 | 100 | 15.60 | 16.22 | 18.93 |
| | 5 600 | 120 | 14.95 | 16.09 | 18.57 |
| | 5 620 | 124 | 15.09 | 16.19 | 18.68 |
| | 5 720 | 144 | 15.19 | 16.11 | 18.69 |
| | 5 745 | 149 | 15.32 | 15.84 | 18.60 |
| | 5 785 | 157 | 15.49 | 16.10 | 18.82 |
| 5 825 | 165 | 15.24 | 15.32 | 18.29 | |

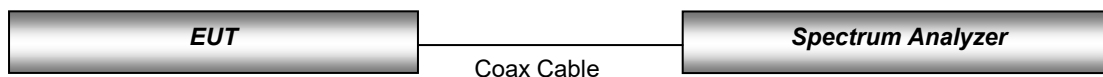
11.6.4 IEEE 802.11 (5 GHz) Reduced Conducted Power

| Mode | Frequency [MHz] | Channel | IEEE 802.11 (5 GHz) Reduced Average Conducted Power [dBm] | |
|-------------------------|-----------------|---------|---|--------|
| | | | Ant. 1 | Ant. 2 |
| 802.11ac (80 MHz BW) | 5 210 | 42 | 10.84 | 9.46 |
| | 5 290 | 58 | 10.49 | 9.14 |
| | 5 530 | 106 | 10.72 | 10.26 |
| | 5 610 | 122 | 10.60 | 10.07 |
| | 5 690 | 138 | 10.59 | 10.81 |
| | 5 775 | 155 | 10.35 | 10.50 |
| 802.11ax (80 MHz BW) | 5 210 | 42 | 9.26 | 10.07 |
| | 5 290 | 58 | 9.25 | 9.28 |
| | 5 530 | 106 | 9.89 | 9.37 |
| | 5 610 | 122 | 9.40 | 8.70 |
| | 5 690 | 138 | 9.65 | 8.66 |
| | 5 775 | 155 | 9.64 | 8.65 |

Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02:

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission mode with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.

Test Configuration



11.7.1 Bluetooth Maximum Conducted Power

The Burst averaged-conducted power

Ant 1

| Mode | Channel | Bluetooth Power [dBm] |
|-------|---------|-----------------------|
| DH5 | 0 | 15.35 |
| | 39 | 16.96 |
| | 78 | 14.71 |
| 2-DH5 | 0 | 13.07 |
| | 39 | 14.74 |
| | 78 | 12.52 |
| 3-DH5 | 0 | 13.06 |
| | 39 | 14.74 |
| | 78 | 12.51 |

Ant 2

| Mode | Channel | Bluetooth Power [dBm] |
|-------|---------|-----------------------|
| DH5 | 0 | 14.94 |
| | 39 | 16.29 |
| | 78 | 14.02 |
| 2-DH5 | 0 | 12.66 |
| | 39 | 14.03 |
| | 78 | 11.80 |
| 3-DH5 | 0 | 12.65 |
| | 39 | 14.03 |
| | 78 | 11.80 |

11.7.2 Bluetooth Reduced Conducted Power

Ant 1

| Mode | Channel | Bluetooth Power [dBm] |
|-------|---------|-----------------------|
| DH5 | 0 | 7.44 |
| | 39 | 9.47 |
| | 78 | 7.23 |
| 2-DH5 | 0 | 7.18 |
| | 39 | 7.07 |
| | 78 | 6.66 |
| 3-DH5 | 0 | 7.17 |
| | 39 | 8.87 |
| | 78 | 6.66 |

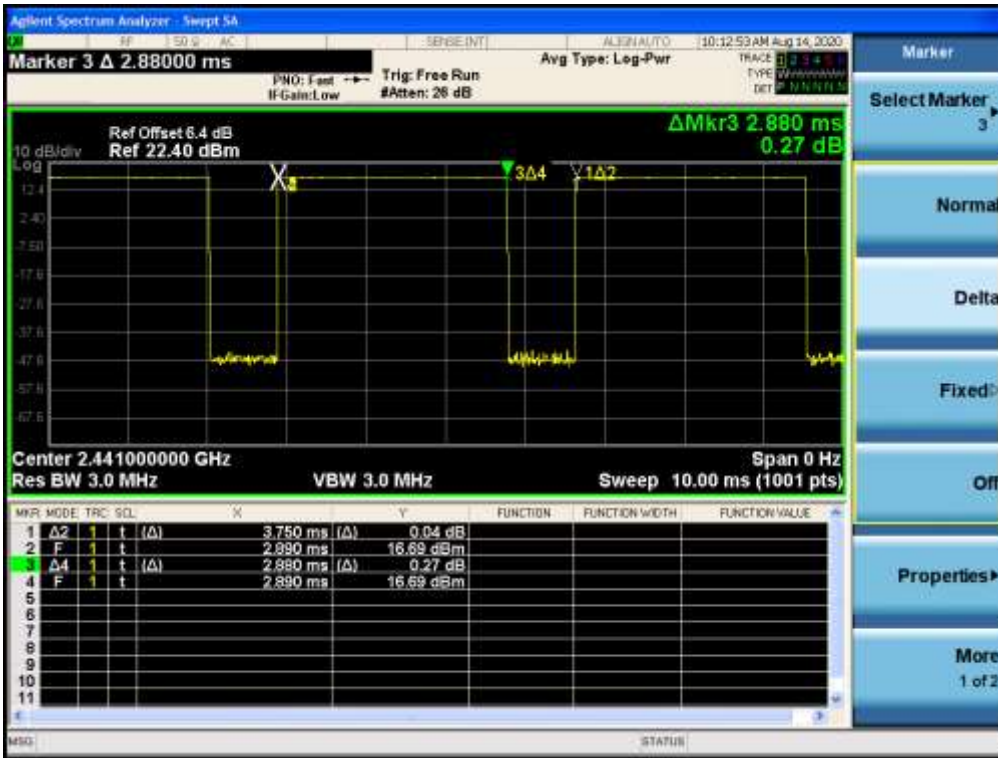
Ant 2

| Mode | Channel | Bluetooth Power [dBm] |
|-------|---------|-----------------------|
| DH5 | 0 | 7.41 |
| | 39 | 8.69 |
| | 78 | 6.97 |
| 2-DH5 | 0 | 6.82 |
| | 39 | 8.11 |
| | 78 | 6.38 |
| 3-DH5 | 0 | 6.86 |
| | 39 | 8.10 |
| | 78 | 6.98 |

Per October 2016 TCB Workshop Notes:

When call box and Bluetooth protocol are used for Bluetooth SAR measurement, time-domain plot is required to identify duty factor for supporting the test setup and result.

Bluetooth duty cycle was measured using Bluetooth tester equipment (CBT / R&S) with Bluetooth DH5 mode.

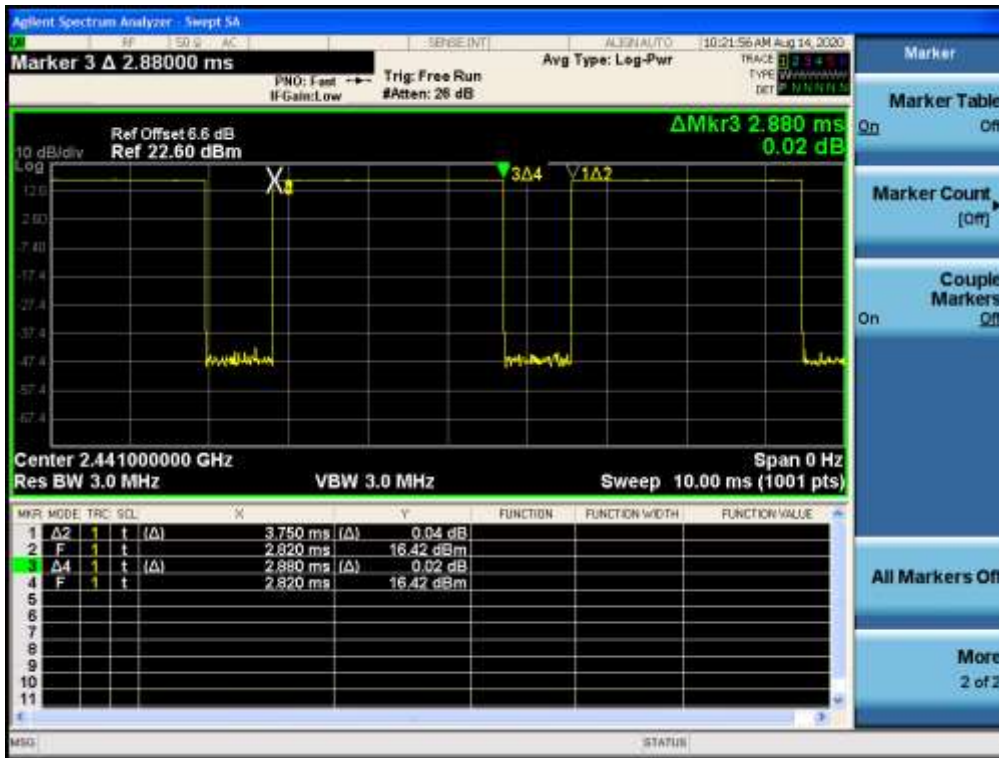


Bluetooth Ant 1

Duty Cycle

$$= (\text{BT-On time} / \text{BT-Full time}) = (2.880 / 3.750) = 0.768 \text{ (DH5)}$$

Duty factor = 1/Duty cycle : 1.302



Bluetooth Ant 2

Duty Cycle

$$= (\text{BT-On time} / \text{BT-Full time}) = (2.880 / 3.750) = 0.768 \text{ (DH5)}$$

Duty factor = 1/Duty cycle : 1.302

12. System Verification

12.1 Tissue Verification

The body simulating material is calibrated by HCT using the DAKS 3.5 to determine the conductivity and permittivity.

Table for Head Tissue Verification

| Date of Tests | Tissue Temp. (°C) | Tissue Type | Freq. (MHz) | Measured Conductivity σ (S/m) | Measured Dielectric Constant, ϵ | Target Conductivity σ (S/m) | Target Dielectric Constant, ϵ | % dev σ | % dev ϵ |
|---------------|-------------------|-------------|-------------|--------------------------------------|--|------------------------------------|--|----------------|------------------|
| 07/08/2020 | 20.2 | 750H | 705 | 0.874 | 42.838 | 0.889 | 42.174 | -1.69 | 1.57 |
| | | | 710 | 0.881 | 42.701 | 0.890 | 42.148 | -1.01 | 1.31 |
| | | | 750 | 0.922 | 42.197 | 0.893 | 41.940 | 3.25 | 0.61 |
| 08/07/2020 | 22.1 | 750H | 705 | 0.856 | 42.245 | 0.889 | 42.174 | -3.71 | 0.17 |
| | | | 710 | 0.862 | 42.183 | 0.890 | 42.148 | -3.15 | 0.08 |
| | | | 750 | 0.909 | 41.486 | 0.893 | 41.940 | 1.79 | -1.08 |
| 07/16/2020 | 21.1 | 750H | 705 | 0.859 | 43.096 | 0.889 | 42.174 | -3.37 | 2.19 |
| | | | 710 | 0.866 | 42.981 | 0.890 | 42.148 | -2.70 | 1.98 |
| | | | 750 | 0.904 | 42.460 | 0.893 | 41.940 | 1.23 | 1.24 |
| 07/09/2020 | 20.4 | 750H | 750 | 0.877 | 42.314 | 0.893 | 41.940 | -1.79 | 0.89 |
| | | | 785 | 0.908 | 41.807 | 0.896 | 41.758 | 1.34 | 0.12 |
| 07/13/2020 | 20.6 | 750H | 750 | 0.877 | 42.297 | 0.893 | 41.940 | -1.79 | 0.85 |
| | | | 785 | 0.912 | 41.766 | 0.896 | 41.758 | 1.79 | 0.02 |
| | | | 820 | 0.930 | 42.759 | 0.899 | 41.577 | 3.45 | 2.84 |
| 07/15/2020 | 20.0 | 835H | 835 | 0.944 | 42.610 | 0.900 | 41.500 | 4.89 | 2.67 |
| | | | 850 | 0.956 | 42.448 | 0.916 | 41.500 | 4.37 | 2.28 |
| | | | 820 | 0.931 | 42.831 | 0.899 | 41.577 | 3.56 | 3.02 |
| 07/16/2020 | 20.7 | 835H | 835 | 0.945 | 42.659 | 0.900 | 41.500 | 5.00 | 2.79 |
| | | | 850 | 0.958 | 42.495 | 0.916 | 41.500 | 4.59 | 2.40 |
| | | | 820 | 0.913 | 42.810 | 0.899 | 41.577 | 1.56 | 2.97 |
| 07/14/2020 | 20.1 | 835H | 835 | 0.927 | 42.636 | 0.900 | 41.500 | 3.00 | 2.74 |
| | | | 850 | 0.940 | 42.468 | 0.916 | 41.500 | 2.62 | 2.33 |
| | | | 820 | 0.934 | 42.590 | 0.899 | 41.577 | 3.89 | 2.44 |
| 07/10/2020 | 19.8 | 835H | 835 | 0.945 | 42.385 | 0.900 | 41.500 | 5.00 | 2.13 |
| | | | 850 | 0.957 | 42.235 | 0.916 | 41.500 | 4.48 | 1.77 |
| | | | 820 | 0.905 | 42.818 | 0.899 | 41.577 | 0.67 | 2.98 |
| 07/15/2020 | 20.1 | 835H | 835 | 0.919 | 42.650 | 0.900 | 41.500 | 2.11 | 2.77 |
| | | | 850 | 0.931 | 42.481 | 0.916 | 41.500 | 1.64 | 2.36 |
| | | | 820 | 0.910 | 43.130 | 0.899 | 41.577 | 1.22 | 3.74 |
| 07/15/2020 | 20.4 | 835H | 835 | 0.926 | 42.942 | 0.900 | 41.500 | 2.89 | 3.47 |
| | | | 850 | 0.937 | 42.771 | 0.916 | 41.500 | 2.29 | 3.06 |
| | | | 820 | 0.926 | 42.584 | 0.899 | 41.577 | 3.00 | 2.42 |
| 07/15/2020 | 20.4 | 835H | 835 | 0.936 | 42.406 | 0.900 | 41.500 | 4.00 | 2.18 |
| | | | 850 | 0.949 | 42.248 | 0.916 | 41.500 | 3.60 | 1.80 |
| | | | 1710 | 1.289 | 40.508 | 1.348 | 40.144 | -4.38 | 0.91 |
| 08/21/2020 | 20.5 | 1800H | 1750 | 1.331 | 40.439 | 1.371 | 40.080 | -2.92 | 0.90 |
| | | | 1800 | 1.381 | 40.287 | 1.400 | 40.000 | -1.36 | 0.72 |
| | | | 1710 | 1.345 | 38.972 | 1.348 | 40.144 | -0.22 | -2.92 |
| 08/07/2020 | 19.7 | 1800H | 1750 | 1.388 | 38.775 | 1.371 | 40.080 | 1.24 | -3.26 |
| | | | 1800 | 1.442 | 38.552 | 1.400 | 40.000 | 3.00 | -3.62 |
| | | | 1710 | 1.296 | 39.871 | 1.348 | 40.144 | -3.86 | -0.68 |
| 08/24/2020 | 19.9 | 1800H | 1750 | 1.331 | 39.771 | 1.371 | 40.080 | -2.92 | -0.77 |
| | | | 1800 | 1.378 | 39.621 | 1.400 | 40.000 | -1.57 | -0.95 |
| | | | 1710 | 1.290 | 40.267 | 1.348 | 40.144 | -4.30 | 0.31 |
| 07/14/2020 | 20.2 | 1800H | 1750 | 1.327 | 40.167 | 1.371 | 40.080 | -3.21 | 0.22 |
| | | | 1800 | 1.374 | 40.031 | 1.400 | 40.000 | -1.86 | 0.08 |
| | | | 1710 | 1.297 | 40.308 | 1.348 | 40.144 | -3.78 | 0.41 |
| 08/17/2020 | 21.3 | 1800H | 1750 | 1.333 | 40.214 | 1.371 | 40.080 | -2.77 | 0.33 |
| | | | 1800 | 1.381 | 40.077 | 1.400 | 40.000 | -1.36 | 0.19 |

| Table for Head Tissue Verification | | | | | | | | | |
|------------------------------------|-------------------|-------------|-------------|--------------------------------------|--|------------------------------------|--|----------------|------------------|
| Date of Tests | Tissue Temp. (°C) | Tissue Type | Freq. (MHz) | Measured Conductivity σ (S/m) | Measured Dielectric Constant, ϵ | Target Conductivity σ (S/m) | Target Dielectric Constant, ϵ | % dev σ | % dev ϵ |
| 08/18/2020 | 21.5 | 1800H | 1710 | 1.304 | 40.510 | 1.348 | 40.144 | -3.26 | 0.91 |
| | | | 1750 | 1.340 | 40.397 | 1.371 | 40.080 | -2.26 | 0.79 |
| | | | 1800 | 1.386 | 40.252 | 1.400 | 40.000 | -1.00 | 0.63 |
| 08/20/2020 | 21.6 | 1900H | 1850 | 1.350 | 40.206 | 1.400 | 40.000 | -3.57 | 0.52 |
| | | | 1900 | 1.404 | 40.042 | 1.400 | 40.000 | 0.29 | 0.11 |
| | | | 1910 | 1.413 | 39.962 | 1.400 | 40.000 | 0.93 | -0.09 |
| 08/19/2020 | 20.2 | 1900H | 1850 | 1.349 | 40.042 | 1.400 | 40.000 | -3.64 | 0.11 |
| | | | 1900 | 1.404 | 39.843 | 1.400 | 40.000 | 0.29 | -0.39 |
| | | | 1910 | 1.409 | 39.846 | 1.400 | 40.000 | 0.64 | -0.39 |
| 08/14/2020 | 22.4 | 1900H | 1850 | 1.355 | 40.096 | 1.400 | 40.000 | -3.21 | 0.24 |
| | | | 1900 | 1.407 | 39.912 | 1.400 | 40.000 | 0.50 | -0.22 |
| | | | 1910 | 1.418 | 39.892 | 1.400 | 40.000 | 1.29 | -0.27 |
| 08/12/2020 | 20.8 | 1900H | 1850 | 1.376 | 39.810 | 1.400 | 40.000 | -1.71 | -0.47 |
| | | | 1900 | 1.431 | 39.613 | 1.400 | 40.000 | 2.21 | -0.97 |
| | | | 1910 | 1.440 | 39.579 | 1.400 | 40.000 | 2.86 | -1.05 |
| 08/16/2020 | 21.1 | 1900H | 1850 | 1.338 | 40.446 | 1.400 | 40.000 | -4.43 | 1.11 |
| | | | 1900 | 1.394 | 40.300 | 1.400 | 40.000 | -0.43 | 0.75 |
| | | | 1910 | 1.399 | 40.276 | 1.400 | 40.000 | -0.07 | 0.69 |
| 08/14/2020 | 20.4 | 1900H | 1850 | 1.379 | 40.446 | 1.400 | 40.000 | -1.50 | 1.11 |
| | | | 1900 | 1.436 | 40.300 | 1.400 | 40.000 | 2.57 | 0.75 |
| | | | 1910 | 1.442 | 40.276 | 1.400 | 40.000 | 3.00 | 0.69 |
| 08/10/2020 | 20.3 | 1900H | 1850 | 1.341 | 39.910 | 1.400 | 40.000 | -4.21 | -0.23 |
| | | | 1900 | 1.398 | 39.798 | 1.400 | 40.000 | -0.14 | -0.50 |
| | | | 1910 | 1.403 | 39.753 | 1.400 | 40.000 | 0.21 | -0.62 |
| 07/27/2020 | 20.9 | 1900H | 1850 | 1.389 | 39.416 | 1.400 | 40.000 | -0.79 | -1.46 |
| | | | 1900 | 1.444 | 39.213 | 1.400 | 40.000 | 3.14 | -1.97 |
| | | | 1910 | 1.451 | 39.136 | 1.400 | 40.000 | 3.64 | -2.16 |

| Table for Head Tissue Verification | | | | | | | | | |
|------------------------------------|-------------------|-------------|-------------|--------------------------------------|--|------------------------------------|--|----------------|------------------|
| Date of Tests | Tissue Temp. (°C) | Tissue Type | Freq. (MHz) | Measured Conductivity σ (S/m) | Measured Dielectric Constant, ϵ | Target Conductivity σ (S/m) | Target Dielectric Constant, ϵ | % dev σ | % dev ϵ |
| 08/08/2020 | 20.8 | 2300H | 2300 | 1.632 | 41.042 | 1.667 | 39.470 | -2.10 | 3.98 |
| | | | 2310 | 1.637 | 41.034 | 1.676 | 39.452 | -2.33 | 4.01 |
| | | | 2350 | 1.683 | 40.951 | 1.711 | 39.380 | -1.64 | 3.99 |
| | | | 2360 | 1.699 | 40.890 | 1.720 | 39.362 | -1.22 | 3.88 |
| 08/07/2020 | 21.0 | 2300H | 2300 | 1.634 | 40.966 | 1.667 | 39.470 | -1.98 | 3.79 |
| | | | 2310 | 1.646 | 40.979 | 1.676 | 39.452 | -1.79 | 3.87 |
| | | | 2350 | 1.690 | 40.888 | 1.711 | 39.380 | -1.23 | 3.83 |
| | | | 2360 | 1.706 | 40.833 | 1.720 | 39.362 | -0.81 | 3.74 |
| 08/10/2020 | 20.5 | 2450H | 2400 | 1.747 | 40.406 | 1.756 | 39.290 | -0.51 | 2.84 |
| | | | 2450 | 1.813 | 40.222 | 1.800 | 39.200 | 0.72 | 2.61 |
| | | | 2500 | 1.865 | 40.024 | 1.855 | 39.140 | 0.54 | 2.26 |
| 08/11/2020 | 20.7 | 2450H | 2400 | 1.821 | 39.701 | 1.756 | 39.290 | 3.70 | 1.05 |
| | | | 2450 | 1.821 | 39.701 | 1.800 | 39.200 | 1.17 | 1.28 |
| | | | 2500 | 1.875 | 39.535 | 1.855 | 39.140 | 1.08 | 1.01 |
| 07/24/2020 | 20.9 | 2450H | 2400 | 1.748 | 38.634 | 1.756 | 39.290 | -0.46 | -1.67 |
| | | | 2450 | 1.799 | 38.388 | 1.800 | 39.200 | -0.06 | -2.07 |
| | | | 2500 | 1.849 | 38.229 | 1.855 | 39.140 | -0.32 | -2.33 |
| 08/12/2020 | 21.2 | 2450H | 2400 | 1.728 | 38.523 | 1.756 | 39.290 | -1.59 | -1.95 |
| | | | 2450 | 1.805 | 38.582 | 1.800 | 39.200 | 0.28 | -1.58 |
| | | | 2500 | 1.849 | 38.173 | 1.855 | 39.140 | -0.32 | -2.47 |
| 07/20/2020 | 20.5 | 2450H | 2400 | 1.728 | 38.523 | 1.756 | 39.290 | -1.59 | -1.95 |
| | | | 2450 | 1.799 | 38.361 | 1.800 | 39.200 | -0.06 | -2.14 |
| | | | 2500 | 1.849 | 38.173 | 1.855 | 39.140 | -0.32 | -2.47 |
| 07/29/2020 | 21.8 | 2450H | 2400 | 1.747 | 40.730 | 1.756 | 39.290 | -0.51 | 3.67 |
| | | | 2450 | 1.804 | 40.557 | 1.800 | 39.200 | 0.22 | 3.46 |
| | | | 2500 | 1.857 | 40.400 | 1.855 | 39.140 | 0.11 | 3.22 |
| 07/30/2020 | 21.1 | 2450H | 2400 | 1.746 | 40.739 | 1.756 | 39.290 | -0.57 | 3.69 |
| | | | 2450 | 1.805 | 40.579 | 1.800 | 39.200 | 0.28 | 3.52 |
| | | | 2500 | 1.859 | 40.424 | 1.855 | 39.140 | 0.22 | 3.28 |
| 07/28/2020 | 20.6 | 2600H | 2500 | 1.864 | 40.148 | 1.855 | 39.140 | 0.49 | 2.58 |
| | | | 2550 | 1.926 | 39.916 | 1.964 | 39.010 | -1.93 | 2.32 |
| | | | 2600 | 1.983 | 39.778 | 2.062 | 38.894 | -3.83 | 2.27 |
| 07/29/2020 | 20.4 | 2600H | 2500 | 1.880 | 39.270 | 1.855 | 39.140 | 1.35 | 0.33 |
| | | | 2600 | 1.975 | 38.856 | 1.964 | 39.010 | 0.56 | -0.39 |
| | | | 2690 | 2.079 | 38.542 | 2.062 | 38.894 | 0.82 | -0.91 |
| 08/06/2020 | 20.7 | 2600H | 2500 | 1.847 | 38.306 | 1.855 | 39.140 | -0.43 | -2.13 |
| | | | 2600 | 1.948 | 37.849 | 1.964 | 39.010 | -0.81 | -2.98 |
| | | | 2690 | 2.047 | 37.526 | 2.062 | 38.894 | -0.73 | -3.52 |

| Table for Head Tissue Verification | | | | | | | | | |
|------------------------------------|-------------------|-------------|-------------|--------------------------------------|--|------------------------------------|--|----------------|------------------|
| Date of Tests | Tissue Temp. (°C) | Tissue Type | Freq. (MHz) | Measured Conductivity σ (S/m) | Measured Dielectric Constant, ϵ | Target Conductivity σ (S/m) | Target Dielectric Constant, ϵ | % dev σ | % dev ϵ |
| 07/22/2020 | 19.3 | 5180H-5825H | 5180 | 4.710 | 37.181 | 4.635 | 36.010 | 1.62 | 3.25 |
| | | | 5250 | 4.618 | 37.071 | 4.706 | 35.930 | -1.87 | 3.18 |
| | | | 5280 | 4.814 | 37.040 | 4.737 | 35.894 | 1.63 | 3.19 |
| | | | 5320 | 4.861 | 36.984 | 4.778 | 35.846 | 1.74 | 3.17 |
| | | | 5500 | 5.064 | 36.728 | 4.963 | 35.640 | 2.04 | 3.05 |
| | | | 5600 | 5.004 | 36.591 | 5.065 | 35.530 | -1.20 | 2.99 |
| | | | 5750 | 5.177 | 36.342 | 5.219 | 35.360 | -0.80 | 2.78 |
| | | | 5800 | 5.408 | 36.270 | 5.270 | 35.300 | 2.62 | 2.75 |
| | | | 5825 | 5.433 | 36.234 | 5.296 | 35.270 | 2.59 | 2.73 |
| 07/20/2020 | 21.4 | 5180H-5825H | 5180 | 4.541 | 37.161 | 4.635 | 36.010 | -2.03 | 3.20 |
| | | | 5250 | 4.590 | 37.096 | 4.706 | 35.930 | -2.46 | 3.25 |
| | | | 5280 | 4.624 | 36.922 | 4.737 | 35.894 | -2.39 | 2.86 |
| | | | 5320 | 4.648 | 36.926 | 4.778 | 35.846 | -2.72 | 3.01 |
| | | | 5500 | 4.862 | 36.684 | 4.963 | 35.640 | -2.04 | 2.93 |
| | | | 5600 | 4.999 | 36.480 | 5.065 | 35.530 | -1.30 | 2.67 |
| | | | 5750 | 5.152 | 36.259 | 5.219 | 35.360 | -1.28 | 2.54 |
| | | | 5800 | 5.200 | 36.215 | 5.270 | 35.300 | -1.33 | 2.59 |
| | | | 5825 | 5.223 | 36.132 | 5.296 | 35.270 | -1.38 | 2.44 |
| 07/23/2020 | 19.9 | 5180H-5825H | 5180 | 4.740 | 37.217 | 4.635 | 36.010 | 2.27 | 3.35 |
| | | | 5250 | 4.826 | 37.086 | 4.706 | 35.930 | 2.55 | 3.22 |
| | | | 5280 | 4.849 | 37.055 | 4.737 | 35.894 | 2.36 | 3.23 |
| | | | 5320 | 4.896 | 37.003 | 4.778 | 35.846 | 2.47 | 3.23 |
| | | | 5500 | 5.101 | 36.757 | 4.963 | 35.640 | 2.78 | 3.13 |
| | | | 5600 | 5.231 | 36.620 | 5.065 | 35.530 | 3.28 | 3.07 |
| | | | 5750 | 5.402 | 36.379 | 5.219 | 35.360 | 3.51 | 2.88 |
| | | | 5800 | 5.449 | 36.293 | 5.270 | 35.300 | 3.40 | 2.81 |
| | | | 5825 | 5.475 | 36.248 | 5.296 | 35.270 | 3.38 | 2.77 |
| 07/21/2020 | 19.2 | 5180H-5825H | 5180 | 4.526 | 37.150 | 4.635 | 36.010 | -2.35 | 3.17 |
| | | | 5250 | 4.603 | 37.011 | 4.706 | 35.930 | -2.19 | 3.01 |
| | | | 5280 | 4.621 | 36.975 | 4.737 | 35.894 | -2.45 | 3.01 |
| | | | 5320 | 4.665 | 36.904 | 4.778 | 35.846 | -2.37 | 2.95 |
| | | | 5500 | 4.871 | 36.636 | 4.963 | 35.640 | -1.85 | 2.79 |
| | | | 5600 | 4.997 | 36.492 | 5.065 | 35.530 | -1.34 | 2.71 |
| | | | 5750 | 5.171 | 36.261 | 5.219 | 35.360 | -0.92 | 2.55 |
| | | | 5800 | 5.208 | 36.207 | 5.270 | 35.300 | -1.18 | 2.57 |
| | | | 5825 | 5.231 | 36.177 | 5.296 | 35.270 | -1.23 | 2.57 |

| Table for Head Tissue Verification | | | | | | | | | |
|------------------------------------|-------------------|-------------|-------------|--------------------------------------|--|------------------------------------|--|----------------|------------------|
| Date of Tests | Tissue Temp. (°C) | Tissue Type | Freq. (MHz) | Measured Conductivity σ (S/m) | Measured Dielectric Constant, ϵ | Target Conductivity σ (S/m) | Target Dielectric Constant, ϵ | % dev σ | % dev ϵ |
| 08/04/2020 | 20.1 | 5180H-5825H | 5180 | 4.530 | 36.157 | 4.635 | 36.010 | -2.27 | 0.41 |
| | | | 5250 | 4.609 | 36.001 | 4.706 | 35.930 | -2.06 | 0.20 |
| | | | 5280 | 4.627 | 35.969 | 4.737 | 35.894 | -2.32 | 0.21 |
| | | | 5320 | 4.672 | 35.920 | 4.778 | 35.846 | -2.22 | 0.21 |
| | | | 5500 | 4.875 | 36.655 | 4.963 | 35.640 | -1.77 | 2.85 |
| | | | 5600 | 5.000 | 35.530 | 5.065 | 35.530 | -1.28 | 0.00 |
| | | | 5750 | 5.168 | 35.284 | 5.219 | 35.360 | -0.98 | -0.21 |
| | | | 5800 | 5.214 | 35.218 | 5.270 | 35.300 | -1.06 | -0.23 |
| | | | 5825 | 5.240 | 35.188 | 5.296 | 35.270 | -1.06 | -0.23 |
| 08/03/2020 | 21.1 | 5180H-5825H | 5180 | 4.654 | 36.161 | 4.635 | 36.010 | 0.41 | 0.42 |
| | | | 5250 | 4.745 | 37.099 | 4.706 | 35.930 | 0.83 | 3.25 |
| | | | 5280 | 4.759 | 35.982 | 4.737 | 35.894 | 0.46 | 0.25 |
| | | | 5320 | 4.789 | 35.986 | 4.778 | 35.846 | 0.23 | 0.39 |
| | | | 5500 | 4.956 | 35.786 | 4.963 | 35.640 | -0.14 | 0.41 |
| | | | 5600 | 5.083 | 35.648 | 5.065 | 35.530 | 0.36 | 0.33 |
| | | | 5750 | 5.251 | 35.447 | 5.219 | 35.360 | 0.61 | 0.25 |
| | | | 5800 | 5.311 | 35.332 | 5.270 | 35.300 | 0.78 | 0.09 |
| | | | 5825 | 5.332 | 35.345 | 5.296 | 35.270 | 0.68 | 0.21 |
| 08/05/2020 | 21.0 | 5180H-5825H | 5180 | 4.647 | 36.107 | 4.635 | 36.010 | 0.26 | 0.27 |
| | | | 5250 | 4.734 | 36.015 | 4.706 | 35.930 | 0.59 | 0.24 |
| | | | 5280 | 4.757 | 35.999 | 4.737 | 35.894 | 0.42 | 0.29 |
| | | | 5320 | 4.802 | 35.952 | 4.778 | 35.846 | 0.50 | 0.30 |
| | | | 5500 | 4.972 | 35.754 | 4.963 | 35.640 | 0.18 | 0.32 |
| | | | 5600 | 5.087 | 35.621 | 5.065 | 35.530 | 0.43 | 0.26 |
| | | | 5750 | 5.246 | 35.395 | 5.219 | 35.360 | 0.52 | 0.10 |
| | | | 5800 | 5.299 | 35.319 | 5.270 | 35.300 | 0.55 | 0.05 |
| | | | 5825 | 5.323 | 35.281 | 5.296 | 35.270 | 0.51 | 0.03 |

12.2 System Verification

Input Power: 50 mW

| Freq. [MHz] | Date | Probe (S/N) | Dipole (S/N) | Liquid | Amb. Temp. [°C] | Liquid Temp. [°C] | 1 W Target SAR _{1g} (SPEAG) [W/kg] | 50mW Measured SAR _{1g} [W/kg] | 1 W Normalized SAR _{1g} [W/kg] | Deviation [%] | Limit [%] |
|-------------|------------|-------------|--------------|--------|-----------------|-------------------|---|--|---|---------------|-----------|
| 750 | 07/08/2020 | 3903 | 1014 | Head | 20.4 | 20.2 | 8.39 | 0.440 | 8.8 | + 4.89 | ± 10 |
| 750 | 07/09/2020 | 3903 | | Head | 20.7 | 20.4 | 8.39 | 0.420 | 8.4 | + 0.12 | ± 10 |
| 750 | 07/13/2020 | 3903 | | Head | 20.9 | 20.6 | 8.39 | 0.422 | 8.44 | + 0.60 | ± 10 |
| 750 | 07/16/2020 | 3903 | | Head | 21.4 | 21.1 | 8.39 | 0.421 | 8.42 | + 0.36 | ± 10 |
| 750 | 08/07/2020 | 7370 | | Head | 22.4 | 22.1 | 8.39 | 0.413 | 8.26 | - 1.55 | ± 10 |
| 835 | 07/15/2020 | 3903 | 4d165 | Head | 20.3 | 20.0 | 9.69 | 0.487 | 9.74 | + 0.52 | ± 10 |
| 835 | 07/14/2020 | 3903 | | Head | 20.3 | 20.1 | 9.69 | 0.482 | 9.64 | - 0.52 | ± 10 |
| 835 | 07/10/2020 | 3903 | | Head | 20.1 | 19.8 | 9.69 | 0.489 | 9.78 | + 0.93 | ± 10 |
| 835 | 08/06/2020 | 7370 | | Head | 20.6 | 20.3 | 9.69 | 0.485 | 9.7 | + 0.10 | ± 10 |
| 835 | 07/16/2020 | 3797 | | Head | 20.9 | 20.7 | 9.69 | 0.506 | 10.12 | + 4.44 | ± 10 |
| 835 | 07/15/2020 | 3797 | | Head | 20.6 | 20.4 | 9.69 | 0.503 | 10.06 | + 3.82 | ± 10 |
| 1 800 | 08/21/2020 | 3903 | 2d015 | Head | 20.8 | 20.8 | 38.5 | 2.03 | 40.6 | + 5.45 | ± 10 |
| 1 800 | 08/07/2020 | 3968 | | Head | 19.9 | 19.7 | 38.5 | 1.91 | 38.2 | - 0.78 | ± 10 |
| 1 800 | 08/24/2020 | 3076 | | Head | 20.2 | 19.9 | 38.5 | 1.96 | 39.2 | + 1.82 | ± 10 |
| 1 800 | 07/14/2020 | 3797 | | Head | 20.5 | 20.2 | 38.5 | 2.01 | 40.2 | + 4.42 | ± 10 |
| 1 800 | 08/17/2020 | 3968 | | Head | 21.5 | 21.3 | 38.5 | 1.83 | 36.6 | - 4.94 | ± 10 |
| 1 800 | 08/18/2020 | 3968 | | Head | 21.8 | 21.5 | 38.5 | 1.83 | 36.6 | - 4.94 | ± 10 |

| Freq. [MHz] | Date | Probe (S/N) | Dipole (S/N) | Liquid | Amb. Temp. [°C] | Liquid Temp. [°C] | 1 W Target SAR _{1g} (SPEAG) [W/kg] | 50mW Measured SAR _{1g} [W/kg] | 1 W Normalized SAR _{1g} [W/kg] | Deviation [%] | Limit [%] |
|-------------|------------|-------------|--------------|--------|-----------------|-------------------|---|--|---|---------------|-----------|
| 1 900 | 08/20/2020 | 3968 | 5d061 | Head | 21.8 | 21.6 | 39.9 | 2.03 | 40.6 | + 1.75 | ± 10 |
| 1 900 | 08/19/2020 | 3968 | | Head | 20.5 | 20.2 | 39.9 | 1.98 | 39.6 | - 0.75 | ± 10 |
| 1 900 | 08/14/2020 | 3968 | | Head | 22.7 | 22.4 | 39.9 | 1.98 | 39.6 | - 0.75 | ± 10 |
| 1 900 | 08/12/2020 | 3968 | | Head | 21.0 | 20.8 | 39.9 | 1.90 | 38 | - 4.76 | ± 10 |
| 1 900 | 08/16/2020 | 3968 | | Head | 21.3 | 21.1 | 39.9 | 1.95 | 39 | - 2.26 | ± 10 |
| 1 900 | 08/14/2020 | 1630 | | Head | 20.7 | 20.4 | 39.9 | 1.84 | 36.8 | - 7.77 | ± 10 |
| 1 900 | 08/10/2020 | 1630 | | Head | 20.5 | 20.3 | 39.9 | 1.98 | 39.6 | - 0.75 | ± 10 |
| 1 900 | 07/27/2020 | 3797 | | Head | 21.1 | 20.9 | 39.9 | 2.08 | 41.6 | + 4.26 | ± 10 |
| 1 900 | 07/27/2020 | 1630 | | Head | 21.1 | 20.9 | 39.9 | 1.90 | 38 | - 4.76 | ± 10 |
| 2 300 | 08/08/2020 | 3797 | | 1010 | Head | 21.0 | 20.8 | 48.5 | 2.38 | 47.6 | - 1.86 |
| 2 300 | 08/07/2020 | 3797 | Head | | 21.2 | 21.0 | 48.5 | 2.41 | 48.2 | - 0.62 | ± 10 |
| 2 450 | 08/10/2020 | 3716 | 743 | Head | 20.7 | 20.5 | 52.3 | 2.6 | 52 | - 0.57 | ± 10 |
| 2 450 | 08/12/2020 | 7370 | | Head | 21.4 | 21.2 | 52.3 | 2.57 | 51.4 | - 1.72 | ± 10 |
| 2 450 | 08/12/2020 | 3968 | | Head | 21.4 | 21.2 | 52.3 | 2.56 | 51.2 | - 2.10 | ± 10 |
| 2 450 | 07/24/2020 | 3968 | | Head | 21.1 | 20.9 | 52.3 | 2.56 | 51.2 | - 2.10 | ± 10 |
| 2 450 | 08/11/2020 | 7370 | | Head | 20.9 | 20.7 | 52.3 | 2.74 | 54.8 | + 4.78 | ± 10 |
| 2 450 | 07/20/2020 | 7370 | | Head | 20.7 | 20.5 | 52.3 | 2.64 | 52.8 | + 0.96 | ± 10 |
| 2 450 | 07/29/2020 | 3968 | | Head | 22.1 | 21.8 | 52.3 | 2.56 | 51.2 | - 2.10 | ± 10 |
| 2 450 | 07/30/2020 | 3968 | | Head | 21.3 | 21.1 | 52.3 | 2.79 | 55.8 | + 6.69 | ± 10 |
| 2 600 | 07/28/2020 | 3797 | 1106 | Head | 20.8 | 20.6 | 56.5 | 2.79 | 55.8 | - 1.24 | ± 10 |
| 2 600 | 07/29/2020 | 3797 | | Head | 20.6 | 20.4 | 56.5 | 2.77 | 55.4 | - 1.95 | ± 10 |
| 2 600 | 08/06/2020 | 3968 | | Head | 20.9 | 20.7 | 56.5 | 2.86 | 57.2 | + 1.24 | ± 10 |

| Freq. [MHz] | Date | Probe (S/N) | Dipole (S/N) | Liquid | Amb. Temp. [°C] | Liquid Temp. [°C] | 1 W Target SAR _{1g} (SPEAG) [W/kg] | 50mW Measured SAR _{1g} [W/kg] | 1 W Normalized SAR _{1g} [W/kg] | Deviation [%] | Limit [%] |
|-------------|------------|-------------|--------------|--------|-----------------|-------------------|---|--|---|---------------|-----------|
| 5 250 | 07/22/2020 | 3968 | 1107 | Head | 19.6 | 19.3 | 81.6 | 4.08 | 81.6 | + 0.00 | ± 10 |
| 5 250 | 07/20/2020 | 3968 | | Head | 21.7 | 21.4 | 81.6 | 3.91 | 78.2 | - 4.17 | ± 10 |
| 5 250 | 07/23/2020 | 3968 | | Head | 20.1 | 19.9 | 81.6 | 3.86 | 77.2 | - 5.39 | ± 10 |
| 5 250 | 07/21/2020 | 3968 | | Head | 19.4 | 19.2 | 81.6 | 4.04 | 80.8 | - 0.98 | ± 10 |
| 5 250 | 08/04/2020 | 3968 | | Head | 20.3 | 20.1 | 81.6 | 4.00 | 80 | - 1.96 | ± 10 |
| 5 250 | 08/03/2020 | 3968 | | Head | 21.4 | 21.1 | 81.6 | 4.11 | 82.2 | + 0.74 | ± 10 |
| 5 250 | 08/05/2020 | 3968 | | Head | 21.2 | 21.0 | 81.6 | 4.09 | 81.8 | + 0.25 | ± 10 |
| 5 600 | 07/22/2020 | 3968 | | Head | 19.6 | 19.3 | 84.0 | 4.04 | 80.8 | - 3.81 | ± 10 |
| 5 600 | 07/20/2020 | 3968 | | Head | 21.7 | 21.4 | 84.0 | 4.08 | 81.6 | - 2.86 | ± 10 |
| 5 600 | 07/23/2020 | 3968 | | Head | 20.1 | 19.9 | 84.0 | 4.22 | 84.4 | + 0.48 | ± 10 |
| 5 600 | 07/21/2020 | 3968 | | Head | 19.4 | 19.2 | 84.0 | 4.03 | 80.6 | - 4.05 | ± 10 |
| 5 600 | 08/04/2020 | 3968 | | Head | 20.3 | 20.1 | 84.0 | 4.26 | 85.2 | + 1.43 | ± 10 |
| 5 600 | 08/03/2020 | 3968 | | Head | 21.4 | 21.1 | 84.0 | 4.31 | 86.2 | + 2.62 | ± 10 |
| 5 600 | 08/05/2020 | 3968 | | Head | 21.2 | 21.0 | 84.0 | 4.36 | 87.2 | + 3.81 | ± 10 |
| 5 750 | 07/22/2020 | 3968 | | Head | 19.6 | 19.3 | 80.9 | 3.95 | 79 | - 2.35 | ± 10 |
| 5 750 | 07/20/2020 | 3968 | | Head | 21.7 | 21.4 | 80.9 | 4.08 | 81.6 | + 0.87 | ± 10 |
| 5 750 | 07/23/2020 | 3968 | | Head | 20.1 | 19.9 | 80.9 | 4.42 | 88.4 | + 9.27 | ± 10 |
| 5 750 | 07/21/2020 | 3968 | | Head | 19.4 | 19.2 | 80.9 | 4.10 | 82 | + 1.36 | ± 10 |
| 5 750 | 08/04/2020 | 3968 | | Head | 20.3 | 20.1 | 80.9 | 4.15 | 83 | + 2.60 | ± 10 |
| 5 750 | 08/03/2020 | 3968 | | Head | 21.4 | 21.1 | 80.9 | 4.20 | 84 | + 3.83 | ± 10 |
| 5 750 | 08/05/2020 | 3968 | Head | 21.2 | 21.0 | 80.9 | 4.19 | 83.8 | + 3.58 | ± 10 | |

System Verification Results – Extremity SAR

Input Power: 50 mW

| Freq. | Date | Probe (S/N) | Dipole (S/N) | Liquid | Amb. Temp. | Liquid Temp. | 1 W Target SAR _{10g} (SPEAG) | 50mW Measured SAR _{10g} | 1 W Normalized SAR _{10g} | Deviation | Limit |
|-------|------------|-------------|--------------|--------|------------|--------------|---------------------------------------|----------------------------------|-----------------------------------|-----------|-------|
| [MHz] | | | | | [°C] | [°C] | [W/kg] | [W/kg] | [W/kg] | [%] | [%] |
| 1 800 | 08/21/2020 | 3968 | 2d015 | Head | 20.8 | 20.5 | 20.0 | 1.06 | 21.2 | + 6.00 | ± 10 |
| 1 800 | 08/24/2020 | 3903 | | Head | 20.2 | 19.9 | 20.0 | 1.03 | 20.6 | + 3.00 | ± 10 |
| 1 800 | 08/18/2020 | 3797 | | Head | 21.8 | 21.5 | 20.0 | 0.965 | 19.3 | - 3.50 | ± 10 |
| 1 900 | 08/20/2020 | 3968 | 5d061 | Head | 21.5 | 21.5 | 20.7 | 1.04 | 20.8 | + 0.48 | ± 10 |
| 1 900 | 08/14/2020 | 3968 | | Head | 22.7 | 22.4 | 20.7 | 1.01 | 20.2 | - 2.42 | ± 10 |
| 1 900 | 08/16/2020 | 3968 | | Head | 21.3 | 21.1 | 20.7 | 1.00 | 20 | - 3.38 | ± 10 |
| 1 900 | 08/14/2020 | 1630 | | Head | 20.7 | 20.4 | 20.7 | 1.06 | 21.2 | + 2.42 | ± 10 |
| 1 900 | 07/27/2020 | 1630 | | Head | 21.1 | 20.9 | 20.7 | 1.10 | 22 | + 6.28 | ± 10 |
| 5 250 | 08/04/2020 | 3968 | 1107 | Head | 20.3 | 20.1 | 23.4 | 1.17 | 23.4 | + 0.00 | ± 10 |
| 5 250 | 07/20/2020 | 3968 | | Head | 21.7 | 21.4 | 23.4 | 1.12 | 22.4 | - 4.27 | ± 10 |
| 5 250 | 07/21/2020 | 3968 | | Head | 19.4 | 19.2 | 23.4 | 1.14 | 22.8 | - 2.56 | ± 10 |
| 5 250 | 08/05/2020 | 3968 | | Head | 21.2 | 21.0 | 23.4 | 1.16 | 23.2 | - 0.85 | ± 10 |
| 5 600 | 08/04/2020 | 3968 | | Head | 20.3 | 20.1 | 24.0 | 1.23 | 24.6 | + 2.50 | ± 10 |
| 5 600 | 07/20/2020 | 3968 | | Head | 21.7 | 21.4 | 24.0 | 1.17 | 23.4 | - 2.50 | ± 10 |
| 5 600 | 07/21/2020 | 3968 | | Head | 19.4 | 19.2 | 24.0 | 1.16 | 23.2 | - 3.33 | ± 10 |
| 5 600 | 08/05/2020 | 3968 | | Head | 21.2 | 21.0 | 24.0 | 1.23 | 24.6 | + 2.50 | ± 10 |

12.3 System Verification Procedure

SAR measurement was prior to assessment, the system is verified to the $\pm 10\%$ of the specifications at each frequency band by using the system verification kit. (Graphic Plots Attached)

- Cabling the system, using the verification kit equipment.
- Generate about 50 mW Input level from the signal generator to the Dipole Antenna.
- Dipole antenna was placed below the flat phantom.
- The measured one-gram SAR at the surface of the phantom above the dipole feed-point should be within 10 % of the target reference value.
- The results are normalized to 1 W input power.

Note;

SAR Verification was performed according to the FCC KDB 865664 D01v01r04.

13. SAR Test Data Summary

13.1 SAR Measurement Results (DSI = 2)

| CDMA BC10 (§90S) Head SAR | | | | | | | | | | | | |
|---|-----|-----------|-------------|---------------|-------------|-------------|--|------------|-----------|----------------|--------------|----------|
| Frequency | | Mode | | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | (dB) | (dB) | (dB) | | | (W/kg) | | (W/kg) | |
| 820 | 560 | CDMA BC10 | RC3 / SO55 | 25.5 | 24.95 | 0.06 | Left Cheek | 1:1 | 0.096 | 1.135 | 0.109 | - |
| 820 | 560 | CDMA BC10 | RC3 / SO55 | 25.5 | 24.95 | 0.12 | Left Tilt | 1:1 | 0.205 | 1.135 | 0.233 | - |
| 820 | 560 | CDMA BC10 | RC3 / SO55 | 25.5 | 24.95 | -0.19 | Right Cheek | 1:1 | 0.175 | 1.135 | 0.199 | - |
| 820 | 560 | CDMA BC10 | RC3 / SO55 | 25.5 | 24.95 | -0.13 | Right Tilt | 1:1 | 0.234 | 1.135 | 0.266 | 1 |
| 820 | 560 | CDMA BC10 | EVDO Rev. A | 25.5 | 24.95 | -0.08 | Left Cheek | 1:1 | 0.127 | 1.135 | 0.144 | - |
| 820 | 560 | CDMA BC10 | EVDO Rev. A | 25.5 | 24.95 | 0.04 | Left Tilt | 1:1 | 0.117 | 1.135 | 0.133 | - |
| 820 | 560 | CDMA BC10 | EVDO Rev. A | 25.5 | 24.95 | -0.10 | Right Cheek | 1:1 | 0.140 | 1.135 | 0.159 | - |
| 820 | 560 | CDMA BC10 | EVDO Rev. A | 25.5 | 24.95 | -0.12 | Right Tilt | 1:1 | 0.105 | 1.135 | 0.119 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Head 1.6 W/kg Averaged over 1 gram | | | | | |

| CDMA BC0 (§22H) Head SAR | | | | | | | | | | | | |
|---|-----|----------|-------------|---------------|-------------|-------------|--|------------|-----------|----------------|--------------|----------|
| Frequency | | Mode | | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | (dB) | (dB) | (dB) | | | (W/kg) | | (W/kg) | |
| 836.52 | 384 | CDMA BC0 | RC3 / SO55 | 25.8 | 24.83 | 0.18 | Left Cheek | 1:1 | 0.094 | 1.250 | 0.118 | - |
| 836.52 | 384 | CDMA BC0 | RC3 / SO55 | 25.8 | 24.83 | 0.03 | Left Tilt | 1:1 | 0.090 | 1.250 | 0.113 | - |
| 836.52 | 384 | CDMA BC0 | RC3 / SO55 | 25.8 | 24.83 | -0.01 | Right Cheek | 1:1 | 0.137 | 1.250 | 0.171 | 2 |
| 836.52 | 384 | CDMA BC0 | RC3 / SO55 | 25.8 | 24.83 | 0.05 | Right Tilt | 1:1 | 0.090 | 1.250 | 0.113 | - |
| 836.52 | 384 | CDMA BC0 | EVDO Rev. A | 25.8 | 24.83 | -0.18 | Left Cheek | 1:1 | 0.113 | 1.250 | 0.141 | - |
| 836.52 | 384 | CDMA BC0 | EVDO Rev. A | 25.8 | 24.83 | -0.07 | Left Tilt | 1:1 | 0.106 | 1.250 | 0.133 | - |
| 836.52 | 384 | CDMA BC0 | EVDO Rev. A | 25.8 | 24.83 | 0.12 | Right Cheek | 1:1 | 0.144 | 1.250 | 0.180 | - |
| 836.52 | 384 | CDMA BC0 | EVDO Rev. A | 25.8 | 24.83 | -0.17 | Right Tilt | 1:1 | 0.100 | 1.250 | 0.125 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Head 1.6 W/kg Averaged over 1 gram | | | | | |

| PCS CDMA Head SAR | | | | | | | | | | | | |
|---|-----|----------|-------------|---------------|-------------|-------------|--|------------|-----------|----------------|--------------|----------|
| Frequency | | Mode | | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | (dB) | (dB) | (dB) | | | (W/kg) | | (W/kg) | |
| 1 880.0 | 600 | PCS CDMA | RC3 / SO55 | 25.3 | 23.59 | -0.12 | Left Cheek | 1:1 | 0.103 | 1.483 | 0.153 | - |
| 1 880.0 | 600 | PCS CDMA | RC3 / SO55 | 25.3 | 23.59 | -0.10 | Left Tilt | 1:1 | 0.064 | 1.483 | 0.095 | - |
| 1 880.0 | 600 | PCS CDMA | RC3 / SO55 | 25.3 | 23.59 | 0.16 | Right Cheek | 1:1 | 0.099 | 1.483 | 0.147 | - |
| 1 880.0 | 600 | PCS CDMA | RC3 / SO55 | 25.3 | 23.59 | 0.01 | Right Tilt | 1:1 | 0.055 | 1.483 | 0.082 | - |
| 1 880.0 | 600 | PCS CDMA | EVDO Rev. A | 25.3 | 23.63 | -0.12 | Left Cheek | 1:1 | 0.111 | 1.469 | 0.163 | 3 |
| 1 880.0 | 600 | PCS CDMA | EVDO Rev. A | 25.3 | 23.63 | 0.19 | Left Tilt | 1:1 | 0.044 | 1.469 | 0.065 | - |
| 1 880.0 | 600 | PCS CDMA | EVDO Rev. A | 25.3 | 23.63 | 0.16 | Right Cheek | 1:1 | 0.080 | 1.469 | 0.118 | - |
| 1 880.0 | 600 | PCS CDMA | EVDO Rev. A | 25.3 | 23.63 | -0.14 | Right Tilt | 1:1 | 0.064 | 1.469 | 0.094 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Head 1.6 W/kg Averaged over 1 gram | | | | | |

| GSM 850 Head SAR | | | | | | | | | | | |
|---|-----|----------|---------------|-------------|-------------|---------------|--|-----------|----------------|--------------|----------|
| Frequency | | Mode | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | (dB) | (dB) | (dB) | | | (W/kg) | | (W/kg) | |
| 836.6 | 190 | GSM | 33.5 | 31.61 | -0.11 | Left Cheek | 1:8.3 | 0.070 | 1.545 | 0.108 | - |
| 836.6 | 190 | GSM | 33.5 | 31.61 | 0.16 | Left Tilt | 1:8.3 | 0.075 | 1.545 | 0.116 | - |
| 836.6 | 190 | GSM | 33.5 | 31.61 | 0.06 | Right Cheek | 1:8.3 | 0.094 | 1.545 | 0.145 | - |
| 836.6 | 190 | GSM | 33.5 | 31.61 | 0.01 | Right Tilt | 1:8.3 | 0.047 | 1.545 | 0.073 | - |
| 836.6 | 190 | GPRS 2Tx | 32.5 | 31.57 | -0.15 | Left Cheek | 1:4.15 | 0.137 | 1.239 | 0.170 | - |
| 836.6 | 190 | GPRS 2Tx | 32.5 | 31.57 | -0.07 | Left Tilt | 1:4.15 | 0.110 | 1.239 | 0.136 | - |
| 836.6 | 190 | GPRS 2Tx | 32.5 | 31.57 | -0.11 | Right Cheek | 1:4.15 | 0.180 | 1.239 | 0.223 | 4 |
| 836.6 | 190 | GPRS 2Tx | 32.5 | 31.57 | 0.03 | Right Tilt | 1:4.15 | 0.086 | 1.239 | 0.107 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Head 1.6 W/kg Averaged over 1 gram | | | | |

| GSM 1900 Head SAR | | | | | | | | | | | |
|---|-----|----------|---------------|-------------|-------------|---------------|--|-----------|----------------|--------------|----------|
| Frequency | | Mode | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | (dB) | (dB) | (dB) | | | (W/kg) | | (W/kg) | |
| 1 880 | 661 | GSM | 31.0 | 29.11 | -0.11 | Left Cheek | 1:8.3 | 0.048 | 1.545 | 0.074 | - |
| 1 880 | 661 | GSM | 31.0 | 29.11 | 0.17 | Left Tilt | 1:8.3 | 0.022 | 1.545 | 0.034 | - |
| 1 880 | 661 | GSM | 31.0 | 29.11 | 0.13 | Right Cheek | 1:8.3 | 0.037 | 1.545 | 0.057 | - |
| 1 880 | 661 | GSM | 31.0 | 29.11 | -0.03 | Right Tilt | 1:8.3 | 0.027 | 1.545 | 0.042 | - |
| 1 880 | 661 | GPRS 3Tx | 28.0 | 26.68 | 0.19 | Left Cheek | 1:2.77 | 0.074 | 1.355 | 0.100 | 5 |
| 1 880 | 661 | GPRS 3Tx | 28.0 | 26.68 | 0.12 | Left Tilt | 1:2.77 | 0.035 | 1.355 | 0.047 | - |
| 1 880 | 661 | GPRS 3Tx | 28.0 | 26.68 | 0.10 | Right Cheek | 1:2.77 | 0.058 | 1.355 | 0.079 | - |
| 1 880 | 661 | GPRS 3Tx | 28.0 | 26.68 | 0.16 | Right Tilt | 1:2.77 | 0.041 | 1.355 | 0.056 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Head 1.6 W/kg Averaged over 1 gram | | | | |

| UMTS 850 Head SAR | | | | | | | | | | | |
|---|------|------|---------------|-------------|-------------|---|------------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | |
| 836.6 | 4183 | RMC | 25.0 | 23.60 | -0.07 | Left Cheek | 1:1 | 0.087 | 1.380 | 0.120 | - |
| 836.6 | 4183 | RMC | 25.0 | 23.60 | 0.12 | Left Tilt | 1:1 | 0.049 | 1.380 | 0.068 | - |
| 836.6 | 4183 | RMC | 25.0 | 23.60 | -0.06 | Right Cheek | 1:1 | 0.143 | 1.380 | 0.197 | 6 |
| 836.6 | 4183 | RMC | 25.0 | 23.60 | 0.02 | Right Tilt | 1:1 | 0.066 | 1.380 | 0.091 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | Head 1.6 W/kg (mW/g) Averaged over 1 gram | | | | | |

| UMTS 1700 Head SAR | | | | | | | | | | | |
|---|------|------|---------------|-------------|-------------|---|------------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | |
| 1 732.4 | 1412 | RMC | 25.0 | 23.22 | -0.06 | Left Cheek | 1:1 | 0.085 | 1.507 | 0.128 | 7 |
| 1 732.4 | 1412 | RMC | 25.0 | 23.22 | 0.16 | Left Tilt | 1:1 | 0.051 | 1.507 | 0.077 | - |
| 1 732.4 | 1412 | RMC | 25.0 | 23.22 | -0.17 | Right Cheek | 1:1 | 0.073 | 1.507 | 0.110 | - |
| 1 732.4 | 1412 | RMC | 25.0 | 23.22 | -0.10 | Right Tilt | 1:1 | 0.049 | 1.507 | 0.074 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | Head 1.6 W/kg (mW/g) Averaged over 1 gram | | | | | |

| UMTS 1900 Head SAR | | | | | | | | | | | |
|---|------|------|---------------|-------------|-------------|---|------------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | |
| 1 880 | 9400 | RMC | 25.0 | 23.45 | -0.12 | Left Cheek | 1:1 | 0.101 | 1.429 | 0.144 | 8 |
| 1 880 | 9400 | RMC | 25.0 | 23.45 | -0.03 | Left Tilt | 1:1 | 0.073 | 1.429 | 0.104 | - |
| 1 880 | 9400 | RMC | 25.0 | 23.45 | -0.12 | Right Cheek | 1:1 | 0.067 | 1.429 | 0.096 | - |
| 1 880 | 9400 | RMC | 25.0 | 23.45 | -0.12 | Right Tilt | 1:1 | 0.058 | 1.429 | 0.083 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | Head 1.6 W/kg (mW/g) Averaged over 1 gram | | | | | |

| LTE Band 7 Head SAR | | | | | | | | | | | | | | | |
|---|-------|------|------------|---------------|-------------|-------------|--|-----|---------|-----------|------------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | |
| 2 510 | 20850 | QPSK | 20 | 24.0 | 22.63 | -0.15 | Left Cheek | 0 | 1 | 99 | 1:1 | 0.073 | 1.371 | 0.100 | 9 |
| 2 510 | 20850 | QPSK | 20 | 23.0 | 21.78 | -0.18 | Left Cheek | 1 | 50 | 25 | 1:1 | 0.060 | 1.324 | 0.079 | - |
| 2 510 | 20850 | QPSK | 20 | 24.0 | 22.63 | 0.11 | Left Tilt | 0 | 1 | 99 | 1:1 | 0.044 | 1.371 | 0.060 | - |
| 2 510 | 20850 | QPSK | 20 | 23.0 | 21.78 | -0.01 | Left Tilt | 1 | 50 | 25 | 1:1 | 0.037 | 1.324 | 0.049 | - |
| 2 510 | 20850 | QPSK | 20 | 24.0 | 22.63 | -0.14 | Right Cheek | 0 | 1 | 99 | 1:1 | 0.053 | 1.371 | 0.073 | - |
| 2 510 | 20850 | QPSK | 20 | 23.0 | 21.78 | 0.19 | Right Cheek | 1 | 50 | 25 | 1:1 | 0.040 | 1.324 | 0.053 | - |
| 2 510 | 20850 | QPSK | 20 | 24.0 | 22.63 | 0.11 | Right Tilt | 0 | 1 | 99 | 1:1 | 0.064 | 1.371 | 0.088 | - |
| 2 510 | 20850 | QPSK | 20 | 23.0 | 21.78 | -0.14 | Right Tilt | 1 | 50 | 25 | 1:1 | 0.053 | 1.324 | 0.070 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Head 1.6 W/kg Averaged over 1 gram | | | | | | | | |

| LTE Band 12 Head SAR | | | | | | | | | | | | | | | |
|---|-------|------|------------|---------------|-------------|-------------|--|-----|---------|-----------|------------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | |
| 707.5 | 23095 | QPSK | 10 | 25.5 | 24.64 | 0.12 | Left Cheek | 0 | 1 | 49 | 1:1 | 0.113 | 1.219 | 0.138 | - |
| 707.5 | 23095 | QPSK | 10 | 24.5 | 23.77 | -0.14 | Left Cheek | 1 | 25 | 24 | 1:1 | 0.092 | 1.183 | 0.109 | - |
| 707.5 | 23095 | QPSK | 10 | 25.5 | 24.64 | -0.13 | Left Tilt | 0 | 1 | 49 | 1:1 | 0.098 | 1.219 | 0.119 | - |
| 707.5 | 23095 | QPSK | 10 | 24.5 | 23.77 | -0.12 | Left Tilt | 1 | 25 | 24 | 1:1 | 0.080 | 1.183 | 0.095 | - |
| 707.5 | 23095 | QPSK | 10 | 25.5 | 24.64 | -0.19 | Right Cheek | 0 | 1 | 49 | 1:1 | 0.158 | 1.219 | 0.193 | 10 |
| 707.5 | 23095 | QPSK | 10 | 24.5 | 23.77 | -0.13 | Right Cheek | 1 | 25 | 24 | 1:1 | 0.131 | 1.183 | 0.155 | - |
| 707.5 | 23095 | QPSK | 10 | 25.5 | 24.64 | -0.13 | Right Tilt | 0 | 1 | 49 | 1:1 | 0.080 | 1.219 | 0.098 | - |
| 707.5 | 23095 | QPSK | 10 | 24.5 | 23.77 | 0.11 | Right Tilt | 1 | 25 | 24 | 1:1 | 0.068 | 1.183 | 0.080 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Head 1.6 W/kg Averaged over 1 gram | | | | | | | | |

| LTE Band 13 Head SAR | | | | | | | | | | | | | | | |
|---|-------|------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | |
| 782 | 23230 | QPSK | 10 | 25.5 | 24.49 | -0.14 | Left Cheek | 0 | 1 | 0 | 1:1 | 0.086 | 1.262 | 0.109 | - |
| 782 | 23230 | QPSK | 10 | 24.5 | 23.56 | -0.11 | Left Cheek | 1 | 25 | 24 | 1:1 | 0.080 | 1.242 | 0.099 | - |
| 782 | 23230 | QPSK | 10 | 25.5 | 24.49 | -0.12 | Left Tilt | 0 | 1 | 0 | 1:1 | 0.174 | 1.262 | 0.220 | - |
| 782 | 23230 | QPSK | 10 | 24.5 | 23.56 | -0.11 | Left Tilt | 1 | 25 | 24 | 1:1 | 0.146 | 1.242 | 0.181 | - |
| 782 | 23230 | QPSK | 10 | 25.5 | 24.49 | -0.08 | Right Cheek | 0 | 1 | 0 | 1:1 | 0.221 | 1.262 | 0.279 | 11 |
| 782 | 23230 | QPSK | 10 | 24.5 | 23.56 | 0.08 | Right Cheek | 1 | 25 | 24 | 1:1 | 0.176 | 1.242 | 0.219 | - |
| 782 | 23230 | QPSK | 10 | 25.5 | 24.49 | -0.11 | Right Tilt | 0 | 1 | 0 | 1:1 | 0.122 | 1.262 | 0.154 | - |
| 782 | 23230 | QPSK | 10 | 24.5 | 23.56 | -0.01 | Right Tilt | 1 | 25 | 24 | 1:1 | 0.094 | 1.242 | 0.117 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | Head 1.6 W/kg Averaged over 1 gram | | | | | | | |

| LTE Band 14 Head SAR | | | | | | | | | | | | | | | |
|---|-------|------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | |
| 793 | 23330 | QPSK | 10 | 25.5 | 24.35 | -0.19 | Left Cheek | 0 | 1 | 0 | 1:1 | 0.090 | 1.303 | 0.117 | - |
| 793 | 23330 | QPSK | 10 | 24.5 | 23.23 | -0.15 | Left Cheek | 1 | 25 | 12 | 1:1 | 0.075 | 1.340 | 0.100 | - |
| 793 | 23330 | QPSK | 10 | 25.5 | 24.35 | -0.16 | Left Tilt | 0 | 1 | 0 | 1:1 | 0.138 | 1.303 | 0.180 | - |
| 793 | 23330 | QPSK | 10 | 24.5 | 23.23 | -0.13 | Left Tilt | 1 | 25 | 12 | 1:1 | 0.118 | 1.340 | 0.158 | - |
| 793 | 23330 | QPSK | 10 | 25.5 | 24.35 | -0.19 | Right Cheek | 0 | 1 | 0 | 1:1 | 0.198 | 1.303 | 0.258 | 12 |
| 793 | 23330 | QPSK | 10 | 24.5 | 23.23 | -0.13 | Right Cheek | 1 | 25 | 12 | 1:1 | 0.147 | 1.340 | 0.197 | - |
| 793 | 23330 | QPSK | 10 | 25.5 | 24.35 | -0.11 | Right Tilt | 0 | 1 | 0 | 1:1 | 0.111 | 1.303 | 0.145 | - |
| 793 | 23330 | QPSK | 10 | 24.5 | 23.23 | -0.06 | Right Tilt | 1 | 25 | 12 | 1:1 | 0.087 | 1.340 | 0.117 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | Head 1.6 W/kg Averaged over 1 gram | | | | | | | |

| LTE Band 25 Head SAR | | | | | | | | | | | | | | | |
|---|-------|------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | |
| 1 905.0 | 26590 | QPSK | 20 | 25.0 | 23.89 | -0.17 | Left Cheek | 0 | 1 | 99 | 1:1 | 0.066 | 1.291 | 0.085 | 13 |
| 1 905.0 | 26590 | QPSK | 20 | 24.0 | 22.99 | 0.05 | Left Cheek | 1 | 50 | 49 | 1:1 | 0.054 | 1.262 | 0.068 | - |
| 1 905.0 | 26590 | QPSK | 20 | 25.0 | 23.89 | 0.10 | Left Tilt | 0 | 1 | 99 | 1:1 | 0.024 | 1.291 | 0.031 | - |
| 1 905.0 | 26590 | QPSK | 20 | 24.0 | 22.99 | 0.15 | Left Tilt | 1 | 50 | 49 | 1:1 | 0.019 | 1.262 | 0.024 | - |
| 1 905.0 | 26590 | QPSK | 20 | 25.0 | 23.89 | 0.12 | Right Cheek | 0 | 1 | 99 | 1:1 | 0.061 | 1.291 | 0.079 | - |
| 1 905.0 | 26590 | QPSK | 20 | 24.0 | 22.99 | 0.19 | Right Cheek | 1 | 50 | 49 | 1:1 | 0.049 | 1.262 | 0.062 | - |
| 1 905.0 | 26590 | QPSK | 20 | 25.0 | 23.89 | 0.04 | Right Tilt | 0 | 1 | 99 | 1:1 | 0.035 | 1.291 | 0.045 | - |
| 1 905.0 | 26590 | QPSK | 20 | 24.0 | 22.99 | -0.19 | Right Tilt | 1 | 50 | 49 | 1:1 | 0.029 | 1.262 | 0.037 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | Head 1.6 W/kg Averaged over 1 gram | | | | | | | |

| LTE Band 26 Head SAR | | | | | | | | | | | | | | | |
|---|-------|------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | |
| 831.5 | 26865 | QPSK | 15 | 25.5 | 24.38 | -0.16 | Left Cheek | 0 | 1 | 0 | 1:1 | 0.073 | 1.294 | 0.094 | - |
| 831.5 | 26865 | QPSK | 15 | 24.5 | 23.40 | -0.16 | Left Cheek | 1 | 36 | 39 | 1:1 | 0.100 | 1.288 | 0.129 | - |
| 831.5 | 26865 | QPSK | 15 | 25.5 | 24.38 | -0.12 | Left Tilt | 0 | 1 | 0 | 1:1 | 0.143 | 1.294 | 0.185 | 14 |
| 831.5 | 26865 | QPSK | 15 | 24.5 | 23.40 | -0.09 | Left Tilt | 1 | 36 | 39 | 1:1 | 0.107 | 1.288 | 0.138 | - |
| 831.5 | 26865 | QPSK | 15 | 25.5 | 24.38 | -0.01 | Right Cheek | 0 | 1 | 0 | 1:1 | 0.135 | 1.294 | 0.175 | - |
| 831.5 | 26865 | QPSK | 15 | 24.5 | 23.40 | 0.07 | Right Cheek | 1 | 36 | 39 | 1:1 | 0.143 | 1.288 | 0.184 | - |
| 831.5 | 26865 | QPSK | 15 | 25.5 | 24.38 | -0.04 | Right Tilt | 0 | 1 | 0 | 1:1 | 0.090 | 1.294 | 0.116 | - |
| 831.5 | 26865 | QPSK | 15 | 24.5 | 23.40 | 0.02 | Right Tilt | 1 | 36 | 39 | 1:1 | 0.083 | 1.288 | 0.107 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | Head 1.6 W/kg Averaged over 1 gram | | | | | | | |

| LTE Band 30 Head SAR | | | | | | | | | | | | | | | |
|---|-------|------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | |
| 2 310 | 27710 | QPSK | 10 | 24.0 | 22.06 | 0.06 | Left Cheek | 0 | 1 | 24 | 1:1 | 0.078 | 1.563 | 0.122 | 15 |
| 2 310 | 27710 | QPSK | 10 | 23.0 | 21.08 | -0.10 | Left Cheek | 1 | 25 | 0 | 1:1 | 0.061 | 1.556 | 0.095 | - |
| 2 310 | 27710 | QPSK | 10 | 24.0 | 22.06 | -0.11 | Left Tilt | 0 | 1 | 24 | 1:1 | 0.049 | 1.563 | 0.077 | - |
| 2 310 | 27710 | QPSK | 10 | 23.0 | 21.08 | -0.10 | Left Tilt | 1 | 25 | 0 | 1:1 | 0.040 | 1.556 | 0.062 | - |
| 2 310 | 27710 | QPSK | 10 | 24.0 | 22.06 | -0.13 | Right Cheek | 0 | 1 | 24 | 1:1 | 0.041 | 1.563 | 0.064 | - |
| 2 310 | 27710 | QPSK | 10 | 23.0 | 21.08 | 0.09 | Right Cheek | 1 | 25 | 0 | 1:1 | 0.029 | 1.556 | 0.045 | - |
| 2 310 | 27710 | QPSK | 10 | 24.0 | 22.06 | 0.10 | Right Tilt | 0 | 1 | 24 | 1:1 | 0.073 | 1.563 | 0.114 | - |
| 2 310 | 27710 | QPSK | 10 | 23.0 | 21.08 | 0.13 | Right Tilt | 1 | 25 | 0 | 1:1 | 0.056 | 1.556 | 0.087 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | Head 1.6 W/kg Averaged over 1 gram | | | | | | | |

| LTE Band 40 Head SAR _ Low frequency range | | | | | | | | | | | | | | | |
|---|-------|------|------------|---------------|-------------|-------------|--|-----|---------|-----------|------------|-----------|----------------|-----------------|----------|
| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| MHz | Ch. | | | | | | | | | | | | | | |
| 2 310 | 38750 | QPSK | 10 | 11.0 | 9.37 | 0.01 | Left Cheek | 0 | 1 | 24 | 1:1.58 | 0.0000794 | 1.455 | 0.000116 | - |
| 2 310 | 38750 | QPSK | 10 | 11.0 | 9.48 | 0.01 | Left Cheek | 0 | 25 | 12 | 1:1.58 | 0.000197 | 1.419 | 0.000280 | - |
| 2 310 | 38750 | QPSK | 10 | 11.0 | 9.37 | 0.01 | Left Tilt | 0 | 1 | 24 | 1:1.58 | 0.0000157 | 1.455 | 0.000023 | - |
| 2 310 | 38750 | QPSK | 10 | 11.0 | 9.48 | 0.01 | Left Tilt | 0 | 25 | 12 | 1:1.58 | 0.000187 | 1.419 | 0.000265 | - |
| 2 310 | 38750 | QPSK | 10 | 11.0 | 9.37 | 0.01 | Right Cheek | 0 | 1 | 24 | 1:1.58 | 0.0000097 | 1.455 | 0.000014 | - |
| 2 310 | 38750 | QPSK | 10 | 11.0 | 9.48 | 0.01 | Right Cheek | 0 | 25 | 12 | 1:1.58 | 0.000348 | 1.419 | 0.000494 | 16 |
| 2 310 | 38750 | QPSK | 10 | 11.0 | 9.37 | 0.01 | Right Tilt | 0 | 1 | 24 | 1:1.58 | 0.00028 | 1.455 | 0.000408 | - |
| 2 310 | 38750 | QPSK | 10 | 11.0 | 9.48 | 0.01 | Right Tilt | 0 | 25 | 12 | 1:1.58 | 0.000041 | 1.419 | 0.000058 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Head 1.6 W/kg Averaged over 1 gram | | | | | | | | |

| LTE Band 40 Head SAR _ High frequency range | | | | | | | | | | | | | | | |
|---|-------|------|------------|---------------|-------------|-------------|--|-----|---------|-----------|------------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| MHz | Ch. | | | | | | | | | | | | | | |
| 2 355 | 39200 | QPSK | 10 | 11.0 | 9.47 | 0.16 | Left Cheek | 0 | 1 | 24 | 1:1.58 | 0.028 | 1.422 | 0.040 | 17 |
| 2 355 | 39200 | QPSK | 10 | 11.0 | 9.56 | 0.12 | Left Cheek | 0 | 25 | 12 | 1:1.58 | 0.023 | 1.393 | 0.032 | - |
| 2 355 | 39200 | QPSK | 10 | 11.0 | 9.47 | 0.13 | Left Tilt | 0 | 1 | 24 | 1:1.58 | 0.010 | 1.422 | 0.014 | - |
| 2 355 | 39200 | QPSK | 10 | 11.0 | 9.56 | 0.07 | Left Tilt | 0 | 25 | 12 | 1:1.58 | 0.00795 | 1.393 | 0.011 | - |
| 2 355 | 39200 | QPSK | 10 | 11.0 | 9.47 | -0.01 | Right Cheek | 0 | 1 | 24 | 1:1.58 | 0.017 | 1.422 | 0.024 | - |
| 2 355 | 39200 | QPSK | 10 | 11.0 | 9.56 | 0.01 | Right Cheek | 0 | 25 | 12 | 1:1.58 | 0.013 | 1.393 | 0.018 | - |
| 2 355 | 39200 | QPSK | 10 | 11.0 | 9.47 | 0.19 | Right Tilt | 0 | 1 | 24 | 1:1.58 | 0.014 | 1.422 | 0.020 | - |
| 2 355 | 39200 | QPSK | 10 | 11.0 | 9.56 | 0.07 | Right Tilt | 0 | 25 | 12 | 1:1.58 | 0.012 | 1.393 | 0.017 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Head 1.6 W/kg Averaged over 1 gram | | | | | | | | |

| LTE TDD Band 41 Head SAR | | | | | | | | | | | | | | | |
|---|-------|------|------------|---------------|-------------|-------------|--|-----|---------|-----------|------------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | |
| 2 549.5 | 40185 | QPSK | 20 | 24.5 | 23.58 | 0.01 | Left Cheek | 0 | 1 | 0 | 1:1.58 | 0.048 | 1.236 | 0.059 | |
| 2 506.0 | 39750 | QPSK | 20 | 23.5 | 22.68 | 0.01 | Left Cheek | 1 | 50 | 25 | 1:1.58 | 0.047 | 1.208 | 0.057 | - |
| 2 549.5 | 40185 | QPSK | 20 | 24.5 | 23.58 | -0.15 | Left Tilt | 0 | 1 | 0 | 1:1.58 | 0.035 | 1.236 | 0.043 | - |
| 2 506.0 | 39750 | QPSK | 20 | 23.5 | 22.68 | -0.14 | Left Tilt | 1 | 50 | 25 | 1:1.58 | 0.032 | 1.208 | 0.039 | - |
| 2 549.5 | 40185 | QPSK | 20 | 24.5 | 23.58 | -0.17 | Right Cheek | 0 | 1 | 0 | 1:1.58 | 0.040 | 1.236 | 0.049 | - |
| 2 506.0 | 39750 | QPSK | 20 | 23.5 | 22.68 | 0.18 | Right Cheek | 1 | 50 | 25 | 1:1.58 | 0.027 | 1.208 | 0.033 | - |
| 2 549.5 | 40185 | QPSK | 20 | 24.5 | 23.58 | 0.02 | Right Tilt | 0 | 1 | 0 | 1:1.58 | 0.053 | 1.236 | 0.066 | - |
| 2 506.0 | 39750 | QPSK | 20 | 23.5 | 22.68 | -0.12 | Right Tilt | 1 | 50 | 25 | 1:1.58 | 0.049 | 1.208 | 0.059 | - |
| Power class 2 (HPUE) | | | | | | | | | | | | | | | |
| 2 549.5 | 40185 | QPSK | 20 | 27.0 | 25.90 | -0.18 | Right Tilt | 0 | 1 | 0 | 1:2.310 | 0.062 | 1.288 | 0.080 | 18* |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Head 1.6 W/kg Averaged over 1 gram | | | | | | | | |

Note: ** Data entry indicate LTE 41 Power Class 2(HPUE)

| LTE Band 66 Head SAR | | | | | | | | | | | | | | | |
|---|--------|------|------------|---------------|-------------|-------------|--|-----|---------|-----------|------------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | |
| 1 770 | 132572 | QPSK | 20 | 25.0 | 24.24 | -0.13 | Left Cheek | 0 | 1 | 0 | 1:1 | 0.194 | 1.191 | 0.231 | 19 |
| 1 770 | 132572 | QPSK | 20 | 24.0 | 23.39 | 0.05 | Left Cheek | 1 | 50 | 25 | 1:1 | 0.160 | 1.151 | 0.184 | - |
| 1 770 | 132572 | QPSK | 20 | 25.0 | 24.24 | 0.01 | Left Tilt | 0 | 1 | 0 | 1:1 | 0.094 | 1.191 | 0.112 | - |
| 1 770 | 132572 | QPSK | 20 | 24.0 | 23.39 | -0.09 | Left Tilt | 1 | 50 | 25 | 1:1 | 0.074 | 1.151 | 0.085 | - |
| 1 770 | 132572 | QPSK | 20 | 25.0 | 24.24 | -0.05 | Right Cheek | 0 | 1 | 0 | 1:1 | 0.121 | 1.191 | 0.144 | - |
| 1 770 | 132572 | QPSK | 20 | 24.0 | 23.39 | 0.04 | Right Cheek | 1 | 50 | 25 | 1:1 | 0.086 | 1.151 | 0.099 | - |
| 1 770 | 132572 | QPSK | 20 | 25.0 | 24.24 | -0.01 | Right Tilt | 0 | 1 | 0 | 1:1 | 0.085 | 1.191 | 0.101 | - |
| 1 770 | 132572 | QPSK | 20 | 24.0 | 23.39 | 0.05 | Right Tilt | 1 | 50 | 25 | 1:1 | 0.069 | 1.151 | 0.079 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Head 1.6 W/kg Averaged over 1 gram | | | | | | | | |

| LTE Band 71 Head SAR | | | | | | | | | | | | | | | |
|---|--------|------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | |
| 683 | 133322 | QPSK | 20 | 25.5 | 24.75 | -0.17 | Left Cheek | 0 | 1 | 99 | 1:1 | 0.149 | 1.189 | 0.177 | - |
| 683 | 133322 | QPSK | 20 | 24.5 | 23.84 | -0.13 | Left Cheek | 1 | 50 | 0 | 1:1 | 0.127 | 1.164 | 0.148 | - |
| 683 | 133322 | QPSK | 20 | 25.5 | 24.75 | -0.15 | Left Tilt | 0 | 1 | 99 | 1:1 | 0.129 | 1.189 | 0.153 | - |
| 683 | 133322 | QPSK | 20 | 24.5 | 23.84 | -0.09 | Left Tilt | 1 | 50 | 0 | 1:1 | 0.114 | 1.164 | 0.133 | - |
| 683 | 133322 | QPSK | 20 | 25.5 | 24.75 | 0.04 | Right Cheek | 0 | 1 | 99 | 1:1 | 0.222 | 1.189 | 0.264 | 20 |
| 683 | 133322 | QPSK | 20 | 24.5 | 23.84 | -0.10 | Right Cheek | 1 | 50 | 0 | 1:1 | 0.174 | 1.164 | 0.203 | - |
| 683 | 133322 | QPSK | 20 | 25.5 | 24.75 | -0.17 | Right Tilt | 0 | 1 | 99 | 1:1 | 0.119 | 1.189 | 0.141 | - |
| 683 | 133322 | QPSK | 20 | 24.5 | 23.84 | -0.10 | Right Tilt | 1 | 50 | 0 | 1:1 | 0.099 | 1.164 | 0.115 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | Head 1.6 W/kg Averaged over 1 gram | | | | | | | |

| NR Band n5 (Cell) Head SAR | | | | | | | | | | | | | | | |
|---|--------|-----------------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|-----------|----------------|--------------|----------|
| Frequency | | Modulation | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | |
| 836.5 | 167300 | DFT-s OFDM QPSK | 20 | 25.5 | 24.59 | -0.16 | Left Cheek | 0 | 1 | 1 | 1:1 | 0.056 | 1.233 | 0.069 | - |
| 836.5 | 167300 | DFT-s OFDM QPSK | 20 | 25.5 | 24.57 | -0.03 | Left Cheek | 0 | 50 | 28 | 1:1 | 0.055 | 1.239 | 0.068 | - |
| 836.5 | 167300 | DFT-s OFDM QPSK | 20 | 25.5 | 24.59 | 0.05 | Left Tilt | 0 | 1 | 1 | 1:1 | 0.070 | 1.233 | 0.086 | - |
| 836.5 | 167300 | DFT-s OFDM QPSK | 20 | 25.5 | 24.57 | 0.06 | Left Tilt | 0 | 50 | 28 | 1:1 | 0.033 | 1.239 | 0.041 | - |
| 836.5 | 167300 | DFT-s OFDM QPSK | 20 | 25.5 | 24.59 | -0.01 | Right Cheek | 0 | 1 | 1 | 1:1 | 0.073 | 1.233 | 0.090 | - |
| 836.5 | 167300 | DFT-s OFDM QPSK | 20 | 25.5 | 24.57 | 0.11 | Right Cheek | 0 | 50 | 28 | 1:1 | 0.075 | 1.239 | 0.093 | 21 |
| 836.5 | 167300 | DFT-s OFDM QPSK | 20 | 25.5 | 24.59 | 0.11 | Right Tilt | 0 | 1 | 1 | 1:1 | 0.032 | 1.233 | 0.039 | - |
| 836.5 | 167300 | DFT-s OFDM QPSK | 20 | 25.5 | 24.57 | -0.19 | Right Tilt | 0 | 50 | 28 | 1:1 | 0.034 | 1.239 | 0.042 | - |
| 836.5 | 167300 | CP QPSK | 20 | 24.0 | 23.31 | -0.08 | Right Cheek | 1.5 | 1 | 1 | 1:1 | 0.046 | 1.172 | 0.054 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | Head 1.6 W/kg Averaged over 1 gram | | | | | | | |

| NR Band n25 Head SAR | | | | | | | | | | | | | | | |
|---|--------|-----------------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|-----------|----------------|--------------|----------|
| Frequency | | Modulation | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | |
| 1 905 | 381000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.16 | 0.17 | Left Cheek | 0 | 1 | 53 | 1:1 | 0.129 | 1.361 | 0.176 | - |
| 1 905 | 381000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.16 | -0.13 | Left Cheek | 0 | 50 | 28 | 1:1 | 0.138 | 1.361 | 0.188 | 22 |
| 1 905 | 381000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.16 | 0.04 | Left Tilt | 0 | 1 | 53 | 1:1 | 0.073 | 1.361 | 0.099 | - |
| 1 905 | 381000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.16 | 0.06 | Left Tilt | 0 | 50 | 28 | 1:1 | 0.070 | 1.361 | 0.095 | - |
| 1 905 | 381000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.16 | 0.17 | Right Cheek | 0 | 1 | 53 | 1:1 | 0.110 | 1.361 | 0.150 | - |
| 1 905 | 381000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.16 | 0.06 | Right Cheek | 0 | 50 | 28 | 1:1 | 0.111 | 1.361 | 0.151 | - |
| 1 905 | 381000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.16 | 0.12 | Right Tilt | 0 | 1 | 53 | 1:1 | 0.071 | 1.361 | 0.097 | - |
| 1 905 | 381000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.16 | 0.19 | Right Tilt | 0 | 50 | 28 | 1:1 | 0.069 | 1.361 | 0.094 | - |
| 1 860 | 372000 | CP QPSK | 20 | 24.0 | 22.67 | -0.14 | Left Cheek | 1.5 | 1 | 1 | 1:1 | 0.081 | 1.358 | 0.110 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | Head 1.6 W/kg Averaged over 1 gram | | | | | | | |

| NR Band n41 Head SAR | | | | | | | | | | | | | | | |
|---|--------|-----------------|------------|---------------|-------------|-------------|--|------|---------|-----------|------------|-----------|----------------|--------------|----------|
| Frequency | | Modulation | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | (Mhz) | (dBm) | (dBm) | (dB) | | (dB) | (dB) | (W/kg) | | (W/kg) | | | |
| 2 592.99 | 518598 | DFT-s OFDM QPSK | 100 | 24.5 | 24.01 | 0.01 | Left Cheek | 0 | 1 | 137 | 1:4.0 | 0.067 | 1.119 | 0.075 | 23 |
| 2 592.99 | 518598 | DFT-s OFDM QPSK | 100 | 24.5 | 24.00 | 0.01 | Left Cheek | 0 | 135 | 69 | 1:4.0 | 0.046 | 1.122 | 0.052 | - |
| 2 592.99 | 518598 | DFT-s OFDM QPSK | 100 | 24.5 | 24.01 | 0.01 | Left Tilt | 0 | 1 | 137 | 1:4.0 | 0.027 | 1.119 | 0.030 | - |
| 2 592.99 | 518598 | DFT-s OFDM QPSK | 100 | 24.5 | 24.00 | 0.17 | Left Tilt | 0 | 135 | 69 | 1:4.0 | 0.021 | 1.122 | 0.024 | - |
| 2 592.99 | 518598 | DFT-s OFDM QPSK | 100 | 24.5 | 24.01 | -0.01 | Right Cheek | 0 | 1 | 137 | 1:4.0 | 0.026 | 1.119 | 0.029 | - |
| 2 592.99 | 518598 | DFT-s OFDM QPSK | 100 | 24.5 | 24.00 | 0.01 | Right Cheek | 0 | 135 | 69 | 1:4.0 | 0.016 | 1.122 | 0.018 | - |
| 2 592.99 | 518598 | DFT-s OFDM QPSK | 100 | 24.5 | 24.01 | -0.01 | Right Tilt | 0 | 1 | 137 | 1:4.0 | 0.042 | 1.119 | 0.047 | - |
| 2 592.99 | 518598 | DFT-s OFDM QPSK | 100 | 24.5 | 24.00 | -0.10 | Right Tilt | 0 | 135 | 69 | 1:4.0 | 0.045 | 1.122 | 0.050 | - |
| 2 592.99 | 518598 | CP QPSK | 100 | 23.0 | 22.43 | 0.01 | Left Cheek | 1.5 | 1 | 1 | 1:4.0 | 0.056 | 1.140 | 0.064 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Head 1.6 W/kg Averaged over 1 gram | | | | | | | | |

| NR Band n66 Head SAR | | | | | | | | | | | | | | | |
|---|--------|-----------------|------------|---------------|-------------|-------------|--|------|---------|-----------|------------|-----------|----------------|--------------|----------|
| Frequency | | Modulation | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | (Mhz) | (dBm) | (dBm) | (dB) | | (dB) | (dB) | (W/kg) | | (W/kg) | | | |
| 1 770 | 354000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.44 | 0.18 | Left Cheek | 0 | 1 | 104 | 1:1 | 0.056 | 1.276 | 0.071 | - |
| 1 770 | 354000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.51 | -0.04 | Left Cheek | 0 | 50 | 28 | 1:1 | 0.081 | 1.256 | 0.102 | - |
| 1 770 | 354000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.44 | -0.10 | Left Tilt | 0 | 1 | 104 | 1:1 | 0.043 | 1.276 | 0.055 | - |
| 1 770 | 354000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.51 | 0.19 | Left Tilt | 0 | 50 | 28 | 1:1 | 0.050 | 1.256 | 0.063 | - |
| 1 770 | 354000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.44 | -0.08 | Right Cheek | 0 | 1 | 104 | 1:1 | 0.043 | 1.276 | 0.055 | - |
| 1 770 | 354000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.51 | 0.14 | Right Cheek | 0 | 50 | 28 | 1:1 | 0.064 | 1.256 | 0.080 | - |
| 1 770 | 354000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.44 | 0.12 | Right Tilt | 0 | 1 | 104 | 1:1 | 0.041 | 1.276 | 0.052 | - |
| 1 770 | 354000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.51 | -0.14 | Right Tilt | 0 | 50 | 28 | 1:1 | 0.045 | 1.256 | 0.057 | - |
| 1 745 | 349000 | CP QPSK | 20 | 24.0 | 22.92 | -0.12 | Left Cheek | 1.5 | 1 | 1 | 1:1 | 0.087 | 1.282 | 0.112 | 24 |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Head 1.6 W/kg Averaged over 1 gram | | | | | | | | |

| NR Band n71 Head SAR | | | | | | | | | | | | | | | |
|---|--------|-----------------|------------|---------------|-------------|-------------|--|------|---------|-----------|------------|-----------|----------------|--------------|----------|
| Frequency | | Modulation | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | (MHz) | (dBm) | (dBm) | (dB) | | (dB) | (W/kg) | (W/kg) | | | | | |
| 680.5 | 136100 | DFT-s OFDM QPSK | 20 | 25.5 | 24.39 | 0.06 | Left Cheek | 0 | 1 | 53 | 1:1 | 0.132 | 1.291 | 0.170 | - |
| 680.5 | 136100 | DFT-s OFDM QPSK | 20 | 25.5 | 24.28 | -0.09 | Left Cheek | 0 | 50 | 28 | 1:1 | 0.121 | 1.324 | 0.160 | - |
| 680.5 | 136100 | DFT-s OFDM QPSK | 20 | 25.5 | 24.39 | -0.08 | Left Tilt | 0 | 1 | 53 | 1:1 | 0.092 | 1.291 | 0.119 | - |
| 680.5 | 136100 | DFT-s OFDM QPSK | 20 | 25.5 | 24.28 | 0.10 | Left Tilt | 0 | 50 | 28 | 1:1 | 0.091 | 1.324 | 0.121 | - |
| 680.5 | 136100 | DFT-s OFDM QPSK | 20 | 25.5 | 24.39 | -0.02 | Right Cheek | 0 | 1 | 53 | 1:1 | 0.153 | 1.291 | 0.198 | 25 |
| 680.5 | 136100 | DFT-s OFDM QPSK | 20 | 25.5 | 24.28 | 0.08 | Right Cheek | 0 | 50 | 28 | 1:1 | 0.146 | 1.324 | 0.193 | - |
| 680.5 | 136100 | DFT-s OFDM QPSK | 20 | 25.5 | 24.39 | 0.02 | Right Tilt | 0 | 1 | 53 | 1:1 | 0.083 | 1.291 | 0.107 | - |
| 680.5 | 136100 | DFT-s OFDM QPSK | 20 | 25.5 | 24.28 | -0.11 | Right Tilt | 0 | 50 | 28 | 1:1 | 0.089 | 1.324 | 0.118 | - |
| 680.5 | 136100 | CP QPSK | 20 | 24.0 | 22.84 | -0.02 | Right Cheek | 1.5 | 1 | 1 | 1:1 | 0.100 | 1.306 | 0.131 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Head 1.6 W/kg Averaged over 1 gram | | | | | | | | |

| DTS Head SAR | | | | | | | | | | | | | | | | |
|---|-----|---------|------------------|------------------|---------------------|-------------------|------------------|---------------|--|------------|---------------------------|------------------|----------------|-----------------------|-------------------|----------|
| Frequency | | Mode | Band width (MHz) | Data Rate (Mbps) | Tune-Up Limit (dBm) | Meas. Power (dBm) | Power Drift (dB) | Test Position | Ant. Config. | Duty Cycle | Area Scan Peak SAR (W/kg) | Meas. SAR (W/kg) | Scaling Factor | Scaling Factor (Duty) | Scaled SAR (W/kg) | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | | |
| 2 437 | 6 | 802.11b | 20 | 1 | 13.0 | 12.86 | -0.17 | Left Cheek | Ant1 | 99.9 | 0.442 | 0.272 | 1.033 | 1.001 | 0.281 | - |
| 2 437 | 6 | 802.11b | 20 | 1 | 13.0 | 12.86 | -0.02 | Left Tilt | Ant1 | 99.9 | 0.618 | 0.368 | 1.033 | 1.001 | 0.380 | - |
| 2 437 | 6 | 802.11b | 20 | 1 | 13.0 | 12.86 | -0.13 | Right Cheek | Ant1 | 99.9 | 0.875 | 0.519 | 1.033 | 1.001 | 0.537 | - |
| 2 437 | 6 | 802.11b | 20 | 1 | 13.0 | 12.86 | 0.03 | Right Tilt | Ant1 | 99.9 | 0.85 | 0.527 | 1.033 | 1.001 | 0.545 | 26 |
| 2 412 | 1 | 802.11b | 20 | 1 | 13.0 | 12.19 | -0.19 | Left Cheek | Ant2 | 99.9 | 0.118 | 0.030 | 1.205 | 1.001 | 0.036 | - |
| 2 412 | 1 | 802.11b | 20 | 1 | 13.0 | 12.19 | 0.10 | Left Tilt | Ant2 | 99.9 | 0.0827 | 0.023 | 1.205 | 1.001 | 0.028 | - |
| 2 412 | 1 | 802.11b | 20 | 1 | 13.0 | 12.19 | 0.12 | Right Cheek | Ant2 | 99.9 | 0.268 | 0.116 | 1.205 | 1.001 | 0.140 | - |
| 2 412 | 1 | 802.11b | 20 | 1 | 13.0 | 12.19 | 0.16 | Right Tilt | Ant2 | 99.9 | 0.17 | 0.077 | 1.205 | 1.001 | 0.093 | - |
| 2 462 | 11 | 802.11b | 20 | 1 | 16.0 | 15.37 | -0.06 | Left Cheek | MIMO | 99.9 | 0.434 | 0.253 | 1.211 | 1.001 | 0.307 | - |
| 2 462 | 11 | 802.11b | 20 | 1 | 16.0 | 15.37 | -0.10 | Left Tilt | MIMO | 99.9 | 0.585 | 0.362 | 1.211 | 1.001 | 0.439 | - |
| 2 462 | 11 | 802.11b | 20 | 1 | 16.0 | 15.37 | 0.18 | Right Cheek | MIMO | 99.9 | 1.02 | 0.478 | 1.211 | 1.001 | 0.579 | - |
| 2 462 | 11 | 802.11b | 20 | 1 | 16.0 | 15.37 | 0.10 | Right Tilt | MIMO | 99.9 | 0.399 | 0.219 | 1.211 | 1.001 | 0.265 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | | Head 1.6 W/kg Averaged over 1 gram | | | | | | | |

NII Head SAR

| Frequency | | Mode | Band width | Data Rate | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Ant Config. | Duty Cycle | Area Scan Peak SAR | Meas. SAR | Scaling Factor | Scaling Factor | Scaled SAR | Plot No. |
|---|-----|----------|------------|-----------|---------------|-------------|-------------|--|-------------|------------|--------------------|-----------|----------------|----------------|--------------|----------|
| Mhz | Ch. | | | | | | | | | | | | | | | |
| 5 290 | 58 | 802.11ac | 80 | MCS0 | 11.0 | 10.49 | | Left Cheek | Ant1 | 99.7 | 0.091 | | | | | |
| 5 290 | 58 | 802.11ac | 80 | MCS0 | 11.0 | 10.49 | | Left Tilt | Ant1 | 99.7 | 0.0881 | | | | | |
| 5 290 | 58 | 802.11ac | 80 | MCS0 | 11.0 | 10.49 | | Right Cheek | Ant1 | 99.7 | 0.0952 | | | | | |
| 5 290 | 58 | 802.11ac | 80 | MCS0 | 11.0 | 10.49 | 0.18 | Right Tilt | Ant1 | 99.7 | 0.108 | 0.039 | 1.125 | 1.003 | 0.044 | |
| 5 290 | 58 | 802.11ac | 80 | MCS0 | 11.0 | 9.14 | | Left Cheek | Ant2 | 99.7 | 0.126 | | | | | |
| 5 290 | 58 | 802.11ac | 80 | MCS0 | 11.0 | 9.14 | | Left Tilt | Ant2 | 99.7 | 0.156 | | | | | |
| 5 290 | 58 | 802.11ac | 80 | MCS0 | 11.0 | 9.14 | 0.09 | Right Cheek | Ant2 | 99.7 | 0.667 | 0.254 | 1.535 | 1.003 | 0.391 | 27 |
| 5 290 | 58 | 802.11ac | 80 | MCS0 | 11.0 | 9.14 | 0.13 | Right Tilt | Ant2 | 99.7 | 0.47 | 0.178 | 1.535 | 1.003 | 0.274 | |
| 5 530 | 106 | 802.11ac | 80 | MCS0 | 11.0 | 10.72 | | Left Cheek | Ant1 | 99.7 | 0 | | | | | |
| 5 530 | 106 | 802.11ac | 80 | MCS0 | 11.0 | 10.72 | 0.07 | Left Tilt | Ant1 | 99.7 | 0.0978 | 0.014 | 1.067 | 1.003 | 0.015 | |
| 5 530 | 106 | 802.11ac | 80 | MCS0 | 11.0 | 10.72 | | Right Cheek | Ant1 | 99.7 | 0.0389 | | | | | |
| 5 530 | 106 | 802.11ac | 80 | MCS0 | 11.0 | 10.72 | 0.08 | Right Tilt | Ant1 | 99.7 | 0.0652 | 0.013 | 1.096 | 1.003 | 0.014 | |
| 5 690 | 138 | 802.11ac | 80 | MCS0 | 11.0 | 10.81 | | Left Cheek | Ant2 | 99.7 | 0.102 | | | | | |
| 5 610 | 122 | 802.11ac | 80 | MCS0 | 11.0 | 10.81 | | Left Tilt | Ant2 | 99.7 | 0.131 | | | | | |
| 5 610 | 122 | 802.11ac | 80 | MCS0 | 11.0 | 10.81 | 0.01 | Right Cheek | Ant2 | 99.7 | 0.407 | 0.094 | 1.045 | 1.003 | 0.098 | |
| 5 610 | 122 | 802.11ac | 80 | MCS0 | 11.0 | 10.81 | -0.02 | Right Tilt | Ant2 | 99.7 | 0.589 | 0.187 | 1.045 | 1.003 | 0.196 | |
| 5 775 | 155 | 802.11ac | 80 | MCS0 | 11.0 | 10.35 | | Left Cheek | Ant1 | 99.7 | 0.0507 | | | | | |
| 5 775 | 155 | 802.11ac | 80 | MCS0 | 11.0 | 10.35 | 0.13 | Left Tilt | Ant1 | 99.7 | 0.0956 | 0.022 | 1.161 | 1.003 | 0.026 | |
| 5 775 | 155 | 802.11ac | 80 | MCS0 | 11.0 | 10.35 | | Right Cheek | Ant1 | 99.7 | 0.0708 | | | | | |
| 5 775 | 155 | 802.11ac | 80 | MCS0 | 11.0 | 10.35 | | Right Tilt | Ant1 | 99.7 | 0.0708 | | | | | |
| 5 775 | 155 | 802.11ac | 80 | MCS0 | 11.0 | 10.50 | | Left Cheek | Ant2 | 99.7 | 0.0491 | | | | | |
| 5 775 | 155 | 802.11ac | 80 | MCS0 | 11.0 | 10.50 | | Left Tilt | Ant2 | 99.7 | 0.0362 | | | | | |
| 5 775 | 155 | 802.11ac | 80 | MCS0 | 11.0 | 10.50 | 0.05 | Right Cheek | Ant2 | 99.7 | 0.137 | 0.030 | 1.122 | 1.003 | 0.034 | |
| 5 775 | 155 | 802.11ac | 80 | MCS0 | 11.0 | 10.50 | 0.10 | Right Tilt | Ant2 | 99.7 | 0.147 | 0.040 | 1.122 | 1.003 | 0.045 | |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | Head 1.6 W/kg Averaged over 1 gram | | | | | | | | |

DSS Head SAR

| Frequency | | Mode | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Ant. Config. | Meas. SAR | Scaling Factor | Scaling Factor | Scaled SAR | Plot No. |
|---|-----|---------------|---------------|-------------|-------------|---------------|--------------|---|----------------|----------------|--------------|----------|
| Mhz | Ch. | | | | | | | | | | | |
| 2 441 | 39 | Bluetooth DH5 | 9.5 | 9.47 | -0.03 | Left Cheek | Ant1 | 0.081 | 1.007 | 1.302 | 0.106 | - |
| 2 441 | 39 | Bluetooth DH5 | 9.5 | 9.47 | 0.16 | Left Tilt | Ant1 | 0.058 | 1.007 | 1.302 | 0.076 | - |
| 2 441 | 39 | Bluetooth DH5 | 9.5 | 9.47 | 0.02 | Right Cheek | Ant1 | 0.113 | 1.007 | 1.302 | 0.148 | |
| 2 441 | 39 | Bluetooth DH5 | 9.5 | 9.47 | -0.11 | Right Tilt | Ant1 | 0.133 | 1.007 | 1.302 | 0.174 | 28 |
| 2 441 | 39 | Bluetooth DH5 | 9.5 | 8.69 | -0.01 | Left Cheek | Ant2 | 0.001 | 1.205 | 1.302 | 0.002 | |
| 2 441 | 39 | Bluetooth DH5 | 9.5 | 8.69 | 0.02 | Left Tilt | Ant2 | 0.00163 | 1.205 | 1.302 | 0.003 | |
| 2 441 | 39 | Bluetooth DH5 | 9.5 | 8.69 | 0.01 | Right Cheek | Ant2 | 0.029 | 1.205 | 1.302 | 0.045 | |
| 2 441 | 39 | Bluetooth DH5 | 9.5 | 8.69 | 0.01 | Right Tilt | Ant2 | 0.014 | 1.205 | 1.302 | 0.022 | |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | Head 1.6 W/kg (mW/g) Averaged over 1 gram | | | | |

13.2 Body-worn SAR Measurement Results (DSI = 0)

| CDMA/GSM/ UMTS Body-Worn SAR | | | | | | | | | | | | | |
|---|------|-------------------|-----------------|---------------|-------------|-------------|--|------------|----------|-----------|----------------|--------------|----------|
| Frequency | | Mode | | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | (dB) | (dB) | (dB) | | | (mm) | (W/kg) | | (W/kg) | |
| 820 | 560 | CDMA BC10 | RC3 / TDSO SO32 | 25.5 | 24.95 | 0.03 | Rear | 1:1 | 15 | 0.241 | 1.135 | 0.274 | - |
| 820 | 560 | CDMA BC10 | RC3 / TDSO SO32 | 25.5 | 24.95 | 0.19 | Front | 1:1 | 15 | 0.224 | 1.135 | 0.254 | - |
| 820 | 560 | CDMA BC10 | EVDO Rev.A | 25.5 | 24.95 | -0.05 | Rear | 1:1 | 15 | 0.301 | 1.135 | 0.342 | 29 |
| 820 | 560 | CDMA BC10 | EVDO Rev.A | 25.5 | 24.95 | -0.02 | Front | 1:1 | 15 | 0.234 | 1.135 | 0.266 | - |
| 836.52 | 384 | CDMA BC0 | RC3 / TDSO SO32 | 25.8 | 24.83 | 0.06 | Rear | 1:1 | 15 | 0.263 | 1.250 | 0.329 | - |
| 836.52 | 384 | CDMA BC0 | RC3 / TDSO SO32 | 25.8 | 24.83 | -0.02 | Front | 1:1 | 15 | 0.232 | 1.250 | 0.290 | - |
| 836.52 | 384 | CDMA BC0 | EVDO Rev. A | 25.8 | 24.83 | -0.01 | Rear | 1:1 | 15 | 0.265 | 1.250 | 0.331 | 30 |
| 836.52 | 384 | CDMA BC0 | EVDO Rev. A | 25.8 | 24.83 | -0.02 | Front | 1:1 | 15 | 0.224 | 1.250 | 0.280 | - |
| 1851.25 | 25 | PCS CDMA | RC3 / TDSO SO32 | 25.3 | 23.60 | 0.06 | Rear | 1:1 | 15 | 0.529 | 1.479 | 0.782 | - |
| 1880.0 | 600 | PCS CDMA | RC3 / TDSO SO32 | 25.3 | 23.59 | 0.08 | Rear | 1:1 | 15 | 0.568 | 1.483 | 0.842 | - |
| 1908.75 | 1175 | PCS CDMA | RC3 / TDSO SO32 | 25.3 | 23.83 | 0.04 | Rear | 1:1 | 15 | 0.613 | 1.403 | 0.860 | - |
| 1851.25 | 25 | PCS CDMA | RC3 / TDSO SO32 | 25.3 | 23.60 | 0.10 | Front | 1:1 | 15 | 0.558 | 1.479 | 0.825 | - |
| 1880.0 | 600 | PCS CDMA | RC3 / TDSO SO32 | 25.3 | 23.59 | -0.01 | Front | 1:1 | 15 | 0.543 | 1.483 | 0.805 | - |
| 1908.75 | 1175 | PCS CDMA | RC3 / TDSO SO32 | 25.3 | 23.83 | 0.02 | Front | 1:1 | 15 | 0.592 | 1.403 | 0.830 | - |
| 1851.25 | 25 | PCS CDMA | EVDO Rev. A | 25.3 | 23.64 | 0.08 | Rear | 1:1 | 15 | 0.534 | 1.466 | 0.783 | - |
| 1880.0 | 600 | PCS CDMA | EVDO Rev. A | 25.3 | 23.63 | -0.10 | Rear | 1:1 | 15 | 0.127 | 1.469 | 0.187 | - |
| 1908.75 | 1175 | PCS CDMA | EVDO Rev. A | 25.3 | 23.85 | 0.10 | Rear | 1:1 | 15 | 0.630 | 1.396 | 0.880 | 31 |
| 1880.0 | 600 | PCS CDMA | EVDO Rev. A | 25.3 | 23.63 | 0.04 | Front | 1:1 | 15 | 0.542 | 1.469 | 0.796 | - |
| 836.6 | 190 | GSM 850 Voice | | 33.5 | 31.61 | -0.18 | Rear | 1:8.3 | 15 | 0.172 | 1.545 | 0.266 | - |
| 836.6 | 190 | GSM 850 Voice | | 33.5 | 31.61 | -0.07 | Front | 1:8.3 | 15 | 0.136 | 1.545 | 0.210 | - |
| 836.6 | 190 | GSM 850 GPRS 2Tx | | 32.5 | 31.57 | 0.09 | Rear | 1:4.15 | 15 | 0.315 | 1.239 | 0.390 | 32 |
| 836.6 | 190 | GSM 850 GPRS 2Tx | | 32.5 | 31.57 | 0.16 | Front | 1:4.15 | 15 | 0.259 | 1.239 | 0.321 | - |
| 1 880 | 661 | GSM 1900 Voice | | 31.0 | 29.11 | 0.14 | Rear | 1:8.3 | 15 | 0.225 | 1.545 | 0.348 | - |
| 1 880 | 661 | GSM 1900 Voice | | 31.0 | 29.11 | -0.02 | Front | 1:8.3 | 15 | 0.206 | 1.545 | 0.318 | - |
| 1 880 | 661 | GSM 1900 GPRS 3Tx | | 28.0 | 26.68 | 0.11 | Rear | 1:2.77 | 15 | 0.344 | 1.355 | 0.466 | 33 |
| 1 880 | 661 | GSM 1900 GPRS 3Tx | | 28.0 | 26.68 | -0.01 | Front | 1:2.77 | 15 | 0.306 | 1.355 | 0.415 | - |
| 836.6 | 4183 | UMTS 850 | RMC | 25.0 | 23.60 | 0.01 | Rear | 1:1 | 15 | 0.216 | 1.380 | 0.298 | 34 |
| 836.6 | 4183 | UMTS 850 | RMC | 25.0 | 23.60 | -0.04 | Front | 1:1 | 15 | 0.160 | 1.380 | 0.221 | - |
| 1 732.4 | 1412 | UMTS 1700 | RMC | 25.0 | 23.22 | -0.05 | Rear | 1:1 | 15 | 0.619 | 1.507 | 0.933 | 35 |
| 1 732.4 | 1412 | UMTS 1700 | RMC | 25.0 | 23.22 | -0.10 | Front | 1:1 | 15 | 0.466 | 1.507 | 0.702 | - |
| 1 712.4 | 1312 | UMTS 1700 | RMC | 25.0 | 23.09 | -0.19 | Rear | 1:1 | 15 | 0.566 | 1.552 | 0.879 | - |
| 1 752.6 | 1513 | UMTS 1700 | RMC | 25.0 | 23.30 | 0.02 | Rear | 1:1 | 15 | 0.440 | 1.479 | 0.651 | - |
| 1 880.0 | 9400 | UMTS 1900 | RMC | 25.0 | 23.45 | 0.02 | Rear | 1:1 | 15 | 0.503 | 1.429 | 0.719 | 36 |
| 1 880.0 | 9400 | UMTS 1900 | RMC | 25.0 | 23.45 | -0.04 | Front | 1:1 | 15 | 0.453 | 1.429 | 0.647 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | | |

Note: * Data entry indicate Variability measurement.

| LTE Body-Worn SAR | | | | | | | | | | | | | | | | |
|---|-------|----------------|------------|---------------|-------------|-------------|--|-----|---------|-----------|------------|----------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | | |
| 2 510 | 20850 | LTE 7 QPSK | 20 | 24.0 | 22.63 | -0.04 | Rear | 0 | 1 | 99 | 1:1 | 15 | 0.271 | 1.371 | 0.372 | 37 |
| 2 510 | 20850 | | 20 | 23.0 | 21.78 | -0.17 | Rear | 1 | 50 | 25 | 1:1 | 15 | 0.166 | 1.324 | 0.220 | - |
| 2 510 | 20850 | | 20 | 24.0 | 22.63 | -0.03 | Front | 0 | 1 | 99 | 1:1 | 15 | 0.185 | 1.371 | 0.254 | - |
| 2 51 | 20850 | | 20 | 23.0 | 21.78 | 0.18 | Front | 1 | 50 | 25 | 1:1 | 15 | 0.162 | 1.324 | 0.215 | - |
| 707.5 | 23095 | LTE 12 QPSK | 10 | 25.5 | 24.64 | -0.01 | Rear | 0 | 1 | 49 | 1:1 | 15 | 0.268 | 1.219 | 0.327 | 38 |
| 707.5 | 23095 | | 10 | 24.5 | 23.77 | 0.01 | Rear | 1 | 25 | 24 | 1:1 | 15 | 0.225 | 1.183 | 0.266 | - |
| 707.5 | 23095 | | 10 | 25.5 | 24.64 | -0.08 | Front | 0 | 1 | 49 | 1:1 | 15 | 0.225 | 1.219 | 0.274 | - |
| 707.5 | 23095 | | 10 | 24.5 | 23.77 | -0.10 | Front | 1 | 25 | 24 | 1:1 | 15 | 0.190 | 1.183 | 0.225 | - |
| 782 | 23230 | LTE 13 QPSK | 10 | 25.5 | 24.49 | -0.04 | Rear | 0 | 1 | 0 | 1:1 | 15 | 0.355 | 1.262 | 0.448 | 39 |
| 782 | 23230 | | 10 | 24.5 | 23.56 | 0.01 | Rear | 1 | 25 | 24 | 1:1 | 15 | 0.289 | 1.242 | 0.359 | - |
| 782 | 23230 | | 10 | 25.5 | 24.49 | -0.08 | Front | 0 | 1 | 0 | 1:1 | 15 | 0.296 | 1.262 | 0.374 | - |
| 782 | 23230 | | 10 | 24.5 | 23.56 | -0.01 | Front | 1 | 25 | 24 | 1:1 | 15 | 0.243 | 1.242 | 0.302 | - |
| 793 | 23330 | LTE 14 QPSK | 10 | 25.5 | 24.35 | -0.01 | Rear | 0 | 1 | 0 | 1:1 | 15 | 0.340 | 1.303 | 0.443 | 40 |
| 793 | 23330 | | 10 | 24.5 | 23.23 | 0.01 | Rear | 1 | 25 | 12 | 1:1 | 15 | 0.261 | 1.340 | 0.350 | - |
| 793 | 23330 | | 10 | 25.5 | 24.35 | -0.01 | Front | 0 | 1 | 0 | 1:1 | 15 | 0.282 | 1.303 | 0.367 | - |
| 793 | 23330 | | 10 | 24.5 | 23.23 | -0.07 | Front | 1 | 25 | 12 | 1:1 | 15 | 0.214 | 1.340 | 0.287 | - |
| 1 905 | 26590 | LTE 25 QPSK | 20 | 25.0 | 23.89 | 0.16 | Rear | 0 | 1 | 99 | 1:1 | 15 | 0.530 | 1.291 | 0.684 | 41 |
| 1 905 | 26590 | | 20 | 24.0 | 22.99 | 0.17 | Rear | 1 | 50 | 49 | 1:1 | 15 | 0.452 | 1.262 | 0.570 | - |
| 1 905 | 26590 | | 20 | 25.0 | 23.89 | 0.07 | Front | 0 | 1 | 99 | 1:1 | 15 | 0.497 | 1.291 | 0.642 | - |
| 1 905 | 26590 | | 20 | 24.0 | 22.99 | 0.09 | Front | 1 | 50 | 49 | 1:1 | 15 | 0.425 | 1.262 | 0.536 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | | | | | |

| LTE Body-Worn SAR | | | | | | | | | | | | | | | | |
|---|--------|---------------------|-------------|---------------|-------------|-------------|--|------|---------|-----------|------------|----------|-----------|----------------|--------------|--------------|
| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | | |
| 831.5 | 26865 | LTE 26 QPSK | 15 | 25.5 | 24.38 | -0.03 | Rear | 0 | 1 | 0 | 1:1 | 15 | 0.223 | 1.294 | 0.289 | 42 |
| 831.5 | 26865 | | 15 | 24.5 | 23.40 | -0.12 | Rear | 1 | 36 | 39 | 1:1 | 15 | 0.211 | 1.288 | 0.272 | - |
| 831.5 | 26865 | | 15 | 25.5 | 24.38 | -0.04 | Front | 0 | 1 | 0 | 1:1 | 15 | 0.185 | 1.294 | 0.239 | - |
| 831.5 | 26865 | | 15 | 24.5 | 23.40 | 0.01 | Front | 1 | 36 | 39 | 1:1 | 15 | 0.169 | 1.288 | 0.218 | - |
| 2 310 | 27710 | LTE 30 QPSK | 10 | 24.0 | 22.06 | -0.17 | Rear | 0 | 1 | 24 | 1:1 | 15 | 0.324 | 1.563 | 0.506 | 43 |
| 2 310 | 27710 | | 10 | 23.0 | 21.08 | -0.12 | Rear | 1 | 25 | 0 | 1:1 | 15 | 0.275 | 1.556 | 0.428 | - |
| 2 310 | 27710 | | 10 | 24.0 | 22.06 | 0.13 | Front | 0 | 1 | 24 | 1:1 | 15 | 0.192 | 1.563 | 0.300 | - |
| 2 310 | 27710 | | 10 | 23.0 | 21.08 | -0.04 | Front | 1 | 25 | 0 | 1:1 | 15 | 0.155 | 1.556 | 0.241 | - |
| 2 593 | 40620 | LTE 40 QPSK (Low) | 10 | 11.0 | 9.37 | 0.01 | Rear | 0 | 1 | 24 | 1:1.58 | 15 | 0.010 | 1.455 | 0.015 | 44 |
| 2 593 | 40620 | | 10 | 11.0 | 9.48 | 0.01 | Rear | 1 | 25 | 12 | 1:1.58 | 15 | 0.010 | 1.419 | 0.014 | - |
| 2 593 | 40620 | | 10 | 11.0 | 9.37 | -0.11 | Front | 0 | 1 | 24 | 1:1.58 | 15 | 0.00724 | 1.455 | 0.011 | - |
| 2 593 | 40620 | | 10 | 11.0 | 9.48 | 0.01 | Front | 1 | 25 | 12 | 1:1.58 | 15 | 0.00619 | 1.419 | 0.009 | - |
| 2 355 | 39200 | LTE 40 QPSK (Upper) | 10 | 11.0 | 9.47 | -0.19 | Rear | 0 | 1 | 24 | 1:1.58 | 15 | 0.012 | 1.422 | 0.017 | 45 |
| 2 355 | 39200 | | 10 | 11.0 | 9.56 | -0.05 | Rear | 1 | 25 | 12 | 1:1.58 | 15 | 0.012 | 1.393 | 0.017 | - |
| 2 355 | 39200 | | 10 | 11.0 | 9.47 | 0.01 | Front | 0 | 1 | 24 | 1:1.58 | 15 | 0.0067 | 1.422 | 0.010 | - |
| 2 355 | 39200 | | 10 | 11.0 | 9.56 | -0.01 | Front | 1 | 25 | 12 | 1:1.58 | 15 | 0.00689 | 1.393 | 0.010 | - |
| 2 549.5 | 40185 | LTE 41 QPSK | 20 | 24.5 | 23.58 | 0.01 | Rear | 0 | 1 | 0 | 1:1.58 | 15 | 0.195 | 1.236 | 0.241 | - |
| 2 506.0 | 39750 | | 20 | 23.5 | 22.68 | -0.05 | Rear | 1 | 50 | 25 | 1:1.58 | 15 | 0.118 | 1.208 | 0.143 | - |
| 2 549.5 | 40185 | | 20 | 24.5 | 23.58 | 0.08 | Front | 0 | 1 | 0 | 1:1.58 | 15 | 0.146 | 1.236 | 0.180 | - |
| 2 506.0 | 39750 | | 20 | 23.5 | 22.68 | 0.12 | Front | 1 | 50 | 25 | 1:1.58 | 15 | 0.117 | 1.208 | 0.141 | - |
| Power class 2 (HPUE) | | | | | | | | | | | | | | | | |
| 2 549.5 | 40185 | LTE 41 QPSK | 20 | 27.0 | 25.90 | -0.19 | Rear | 0 | 1 | 0 | 1:2.310 | 15 | 0.224 | 1.288 | 0.289 | 46** |
| 1 720.0 | 132072 | LTE 66 QPSK | 20 | 25.0 | 24.15 | 0.01 | Rear | 0 | 1 | 49 | 1:1 | 15 | 0.859 | 1.216 | 1.045 | - |
| 1 720.0 | 132072 | | 20 | 24.0 | 23.20 | 0.03 | Rear | 1 | 50 | 25 | 1:1 | 15 | 0.720 | 1.202 | 0.866 | - |
| 1 745.0 | 132322 | | 20 | 25.0 | 24.13 | 0.12 | Rear | 0 | 1 | 49 | 1:1 | 15 | 0.859 | 1.222 | 1.050 | - |
| 1 745.0 | 132322 | | 20 | 24.0 | 23.26 | 0.01 | Rear | 1 | 50 | 25 | 1:1 | 15 | 0.714 | 1.186 | 0.847 | - |
| 1 770.0 | 132572 | | 20 | 25.0 | 24.24 | 0.14 | Rear | 0 | 1 | 0 | 1:1 | 15 | 0.871 | 1.191 | 1.038 | 47 |
| 1 770.0 | 132572 | | 20 | 24.0 | 23.39 | 0.16 | Rear | 1 | 50 | 25 | 1:1 | 15 | 0.707 | 1.151 | 0.814 | - |
| 1 770.0 | 132572 | | 20 | 24.0 | 23.30 | 0.13 | Rear | 1 | 100 | 0 | 1:1 | 15 | 0.723 | 1.175 | 0.849 | - |
| 1 720.0 | 132072 | | 20 | 25.0 | 24.15 | 0.04 | Front | 0 | 1 | 49 | 1:1 | 15 | 0.780 | 1.216 | 0.949 | - |
| 1 745.0 | 132322 | | 20 | 25.0 | 24.13 | 0.11 | Front | 0 | 1 | 49 | 1:1 | 15 | 0.777 | 1.222 | 0.949 | - |
| 1 770.0 | 132572 | | 20 | 25.0 | 24.24 | 0.18 | Front | 0 | 1 | 0 | 1:1 | 15 | 0.773 | 1.191 | 0.921 | - |
| 1 770.0 | 132572 | | 20 | 24.0 | 23.39 | 0.01 | Front | 1 | 50 | 25 | 1:1 | 15 | 0.631 | 1.151 | 0.726 | - |
| 1 770.0 | 132572 | | 20 | 24.0 | 23.30 | 0.08 | Front | 1 | 100 | 0 | 1:1 | 15 | 0.605 | 1.175 | 0.711 | - |
| 1 770.0 | 132572 | | 20 | 25.0 | 24.24 | 0.11 | Rear | 0 | 1 | 0 | 1:1 | 15 | 0.869 | 1.191 | 1.035 | * |
| 680.5 | 133297 | | LTE 71 QPSK | 20 | 25.5 | 24.75 | 0.01 | Rear | 0 | 1 | 99 | 1:1 | 15 | 0.331 | 1.189 | 0.393 |
| 680.5 | 133297 | 20 | | 24.5 | 23.84 | -0.01 | Rear | 1 | 50 | 0 | 1:1 | 15 | 0.290 | 1.164 | 0.338 | - |
| 680.5 | 133297 | 20 | | 25.5 | 24.75 | -0.03 | Front | 0 | 1 | 99 | 1:1 | 15 | 0.272 | 1.189 | 0.323 | - |
| 680.5 | 133297 | 20 | | 24.5 | 23.84 | -0.01 | Front | 1 | 50 | 0 | 1:1 | 15 | 0.239 | 1.164 | 0.278 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | | | | | |

Note: ** Data entry indicate LTE 41 Power Class 2(HPUE)

* Data entry indicate Variability measurement.

| NR Body-Worn SAR | | | | | | | | | | | | | | | | |
|---|--------|---------------------------------|----------------------|---------------|-------------|-------------|--|------|---------|-----------|------------|----------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | | |
| 836.5 | 167300 | NR n5 | 20 | 25.5 | 24.59 | 0.01 | Rear | 0 | 1 | 1 | 1:1 | 15 | 0.112 | 1.233 | 0.138 | - |
| 836.5 | 167300 | DFT-s | 20 | 25.5 | 24.57 | -0.02 | Rear | 0 | 50 | 28 | 1:1 | 15 | 0.138 | 1.239 | 0.171 | 49 |
| 836.5 | 167300 | OFDM | 20 | 25.5 | 24.59 | -0.09 | Front | 0 | 1 | 1 | 1:1 | 15 | 0.082 | 1.233 | 0.101 | - |
| 836.5 | 167300 | QPSK | 20 | 25.5 | 24.57 | -0.02 | Front | 0 | 50 | 28 | 1:1 | 15 | 0.112 | 1.239 | 0.139 | - |
| 836.5 | 167300 | NR n5 CP QPSK | 20 | 24.0 | 23.31 | -0.17 | Rear | 1.5 | 1 | 1 | 1:1 | 15 | 0.049 | 1.172 | 0.057 | - |
| 1 860.0 | 372000 | NR n25 DFT-s OFDM QPSK | 20 | 25.5 | 24.00 | -0.05 | Rear | 0 | 1 | 1 | 1:1 | 15 | 0.605 | 1.413 | 0.855 | - |
| 1 860.0 | 372000 | | 20 | 25.5 | 23.84 | 0.06 | Rear | 0 | 50 | 28 | 1:1 | 15 | 0.656 | 1.466 | 0.961 | - |
| 1 882.5 | 376500 | | 20 | 25.5 | 23.76 | 0.04 | Rear | 0 | 1 | 53 | 1:1 | 15 | 0.736 | 1.493 | 1.099 | - |
| 1 882.5 | 376500 | | 20 | 25.5 | 23.74 | 0.01 | Rear | 0 | 50 | 28 | 1:1 | 15 | 0.704 | 1.500 | 1.056 | - |
| 1 905.0 | 381000 | | 20 | 25.5 | 24.16 | -0.09 | Rear | 0 | 1 | 53 | 1:1 | 15 | 0.814 | 1.361 | 1.108 | 50 |
| 1 905.0 | 381000 | | 20 | 25.5 | 24.16 | -0.08 | Rear | 0 | 50 | 28 | 1:1 | 15 | 0.746 | 1.361 | 1.016 | - |
| 1 905.0 | 381000 | | 20 | 24.5 | 23.20 | -0.18 | Rear | 1 | 100 | 0 | 1:1 | 15 | 0.557 | 1.349 | 0.751 | - |
| 1 860.0 | 372000 | | 20 | 25.5 | 24.00 | 0.01 | Front | 0 | 1 | 1 | 1:1 | 15 | 0.716 | 1.413 | 1.011 | - |
| 1 860.0 | 372000 | | 20 | 25.5 | 23.84 | -0.01 | Front | 0 | 50 | 28 | 1:1 | 15 | 0.674 | 1.466 | 0.988 | - |
| 1 882.5 | 376500 | | 20 | 25.5 | 23.76 | -0.02 | Front | 0 | 1 | 53 | 1:1 | 15 | 0.626 | 1.493 | 0.934 | - |
| 1 882.5 | 376500 | | 20 | 25.5 | 23.74 | 0.01 | Front | 0 | 50 | 28 | 1:1 | 15 | 0.576 | 1.500 | 0.864 | - |
| 1 860.0 | 372000 | | 20 | 25.5 | 24.16 | 0.11 | Front | 0 | 1 | 53 | 1:1 | 15 | 0.759 | 1.361 | 1.033 | - |
| 1 905.0 | 381000 | | 20 | 24.5 | 23.20 | 0.01 | Front | 1 | 100 | 0 | 1:1 | 15 | 0.484 | 1.349 | 0.653 | - |
| 1 860 | 372000 | | NR n25 CP QPSK | 20 | 24.0 | 22.67 | 0.14 | Rear | 1.5 | 1 | 1 | 1:1 | 15 | 0.507 | 1.358 | 0.689 |
| 2 592.99 | 518598 | NR n41 | 100 | 24.5 | 24.01 | -0.12 | Rear | 0 | 1 | 137 | 1:4.0 | 15 | 0.087 | 1.119 | 0.097 | 51 |
| 2 592.99 | 518598 | DFT-s | 100 | 24.5 | 24.00 | -0.16 | Rear | 0 | 135 | 69 | 1:4.0 | 15 | 0.062 | 1.122 | 0.070 | - |
| 2 592.99 | 518598 | OFDM | 100 | 24.5 | 24.01 | 0.04 | Front | 0 | 1 | 137 | 1:4.0 | 15 | 0.062 | 1.119 | 0.069 | - |
| 2 592.99 | 518598 | QPSK | 100 | 24.5 | 24.00 | 0.13 | Front | 0 | 135 | 69 | 1:4.0 | 15 | 0.043 | 1.122 | 0.048 | - |
| 2 592.99 | 518598 | NR n41 CP QPSK | 100 | 23.0 | 22.43 | -0.12 | Rear | 1.5 | 1 | 1 | 1:4.0 | 15 | 0.076 | 1.140 | 0.087 | - |
| 1 770.0 | 354000 | NR n66 | 20 | 25.5 | 24.44 | 0.13 | Rear | 0 | 1 | 104 | 1:1 | 15 | 0.325 | 1.276 | 0.415 | - |
| 1 770.0 | 354000 | DFT-s | 20 | 25.5 | 24.51 | 0.11 | Rear | 0 | 50 | 28 | 1:1 | 15 | 0.398 | 1.256 | 0.500 | 52 |
| 1 770.0 | 354000 | OFDM | 20 | 25.5 | 24.44 | 0.07 | Front | 0 | 1 | 104 | 1:1 | 15 | 0.301 | 1.276 | 0.384 | - |
| 1 770.0 | 354000 | QPSK | 20 | 25.5 | 24.51 | -0.07 | Front | 0 | 50 | 28 | 1:1 | 15 | 0.378 | 1.256 | 0.475 | - |
| 1 770.0 | 354000 | NR n66 CP QPSK | 20 | 24.0 | 22.92 | -0.06 | Rear | 1.5 | 1 | 1 | 1:1 | 15 | 0.313 | 1.282 | 0.401 | - |
| 680.5 | 136100 | NR n71 | 20 | 25.5 | 24.39 | -0.04 | Rear | 0 | 1 | 53 | 1:1 | 15 | 0.249 | 1.291 | 0.322 | 53 |
| 680.5 | 136100 | DFT-s | 20 | 25.5 | 24.28 | -0.19 | Rear | 0 | 50 | 28 | 1:1 | 15 | 0.238 | 1.324 | 0.315 | - |
| 680.5 | 136100 | OFDM | 20 | 25.5 | 24.39 | -0.09 | Front | 0 | 1 | 53 | 1:1 | 15 | 0.215 | 1.291 | 0.278 | - |
| 680.5 | 136100 | QPSK | 20 | 25.5 | 24.28 | -0.18 | Front | 0 | 50 | 28 | 1:1 | 15 | 0.214 | 1.324 | 0.283 | - |
| 680.5 | 136100 | NR n71 CP QPSK | 20 | 24.0 | 22.84 | -0.05 | Rear | 1.5 | 1 | 1 | 1:1 | 15 | 0.178 | 1.306 | 0.232 | - |
| ANSI/ IEEE C95.1 – 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | | | | | |

| DTS Body-Worn SAR | | | | | | | | | | | | | | | | | |
|---|-----|---------|------------------|------------------|---------------------|-------------------|------------------|---------------|--------------|------------|---------------|--|------------------|----------------|-----------------------|-------------------|----------|
| Frequency | | Mode | Band width (MHz) | Data Rate (Mbps) | Tune-Up Limit (dBm) | Meas. Power (dBm) | Power Drift (dB) | Test Position | Ant. Config. | Duty Cycle | Distance (mm) | Area Scan Peak SAR (W/kg) | Meas. SAR (W/kg) | Scaling Factor | Scaling Factor (Duty) | Scaled SAR (W/kg) | Plot No. |
| MHz | Ch. | | | | | | | | | | | | | | | | |
| 2437 | 6 | 802.11b | 20 | 1 | 19.0 | 18.10 | -0.13 | Rear | Ant1 | 99.9 | 15 | 0.213 | 0.136 | 1.230 | 1.001 | 0.167 | - |
| 2437 | 6 | 802.11b | 20 | 1 | 19.0 | 18.10 | 0.17 | Front | Ant1 | 99.9 | 15 | 0.202 | 0.124 | 1.230 | 1.001 | 0.153 | - |
| 2462 | 11 | 802.11b | 20 | 1 | 19.0 | 18.23 | 0.04 | Rear | Ant2 | 99.9 | 15 | 0.0991 | 0.062 | 1.194 | 1.001 | 0.074 | - |
| 2462 | 11 | 802.11b | 20 | 1 | 19.0 | 18.23 | 0.17 | Front | Ant2 | 99.9 | 15 | 0.105 | 0.064 | 1.194 | 1.001 | 0.076 | - |
| 2437 | 6 | 802.11b | 20 | 1 | 22.0 | 21.03 | 0.17 | Rear | MIMO | 99.9 | 15 | 0.357 | 0.217 | 1.230 | 1.001 | 0.267 | 54 |
| 2437 | 6 | 802.11b | 20 | 1 | 22.0 | 21.03 | | Front | MIMO | 99.9 | 15 | 0.305 | | | | | |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | |

| Wi-Fi (DTS) Body-Worn SAR 1g –mmWave | | | | | | | | | | | | | | | | | | |
|---|-----|---------|------------------|------------------|---------------------|-------------------|------------------|---------------|------------|--------|------------|--|---------------------------|------------------|----------------|-----------------------|---------------------|----------|
| Frequency | | Mode | Band width (MHz) | Data Rate (Mbps) | Tune-Up Limit (dBm) | Meas. Power (dBm) | Power Drift (dB) | Test Position | Ant Config | Sensor | Duty Cycle | Distance (mm) | Area Scan Peak SAR (W/kg) | Meas. SAR (W/kg) | Scaling Factor | Scaling Factor (Duty) | Reported SAR (W/kg) | Plot No. |
| MHz | Ch. | | | | | | | | | | | | | | | | | |
| 2 437 | 6 | 802.11b | 20 | 1 | 13.0 | 12.86 | 0.15 | Rear | Ant1 | Active | 99.9 | 15 | 0.0801 | 0.050 | 1.033 | 1.001 | 0.052 | 55 |
| 2 437 | 6 | 802.11b | 20 | 1 | 13.0 | 12.86 | | Front | Ant1 | Active | 99.9 | 15 | 0.0564 | | | | | - |
| 2 412 | 1 | 802.11b | 20 | 1 | 13.0 | 12.19 | -0.01 | Rear | Ant2 | Active | 99.9 | 15 | 0.028 | 0.00865 | 1.205 | 1.001 | 0.010 | - |
| 2 412 | 1 | 802.11b | 20 | 1 | 13.0 | 12.19 | | Front | Ant2 | Active | 99.9 | 15 | 0.0231 | | | | | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | | |

| NII Body-Worn SAR | | | | | | | | | | | | | | | | | |
|---|-----|---------|------------------|------------------|---------------------|-------------------|------------------|---------------|--------------|------------|---------------|--|------------------|----------------|-----------------------|-------------------|----------|
| Frequency | | Mode | Band width (MHz) | Data Rate (Mbps) | Tune-Up Limit (dBm) | Meas. Power (dBm) | Power Drift (dB) | Test Position | Ant. Config. | Duty Cycle | Distance (mm) | Area Scan Peak SAR (W/kg) | Meas. SAR (W/kg) | Scaling Factor | Scaling Factor (Duty) | Scaled SAR (W/kg) | Plot No. |
| MHz | Ch. | | | | | | | | | | | | | | | | |
| 5 300 | 60 | 802.11a | 20 | 6 | 17.0 | 15.99 | 0.16 | Rear | Ant1 | 99.0 | 15 | 0.253 | 0.116 | 1.262 | 1.010 | 0.148 | - |
| 5 300 | 60 | 802.11a | 20 | 6 | 17.0 | 15.99 | 0.01 | Front | Ant1 | 99.0 | 15 | 0.0746 | 0.031 | 1.262 | 1.010 | 0.040 | - |
| 5 500 | 100 | 802.11n | 20 | MCS0 | 17.0 | 15.60 | 0.17 | Rear | Ant1 | 99.7 | 15 | 0.138 | 0.060 | 1.380 | 1.003 | 0.083 | - |
| 5 500 | 100 | 802.11n | 20 | MCS0 | 17.0 | 15.60 | 0.01 | Front | Ant1 | 99.7 | 15 | 0.0326 | 0.0079 | 1.380 | 1.003 | 0.011 | - |
| 5 785 | 157 | 802.11a | 20 | 6 | 17.0 | 15.76 | 0.19 | Rear | Ant1 | 99.0 | 15 | 0.305 | 0.133 | 1.330 | 1.010 | 0.179 | - |
| 5 785 | 157 | 802.11a | 20 | 6 | 17.0 | 15.76 | 0.01 | Front | Ant1 | 99.0 | 15 | 0.0481 | 0.018 | 1.330 | 1.010 | 0.024 | - |
| 5 300 | 60 | 802.11a | 20 | 6 | 17.0 | 16.28 | 0.13 | Rear | Ant2 | 99.0 | 15 | 0.185 | 0.084 | 1.180 | 1.010 | 0.100 | - |
| 5 300 | 60 | 802.11a | 20 | 6 | 17.0 | 16.28 | -0.02 | Front | Ant2 | 99.0 | 15 | 0.179 | 0.078 | 1.180 | 1.010 | 0.093 | - |
| 5 500 | 100 | 802.11n | 20 | MCS0 | 17.0 | 16.22 | 0.11 | Rear | Ant2 | 99.7 | 15 | 0.150 | 0.064 | 1.197 | 1.003 | 0.077 | - |
| 5 500 | 100 | 802.11n | 20 | MCS0 | 17.0 | 16.22 | 0.05 | Front | Ant2 | 99.7 | 15 | 0.0829 | 0.035 | 1.197 | 1.003 | 0.042 | - |
| 5 785 | 157 | 802.11a | 20 | 6 | 17.0 | 16.47 | 0.11 | Rear | Ant2 | 99.0 | 15 | 0.225 | 0.094 | 1.130 | 1.010 | 0.107 | - |
| 5 785 | 157 | 802.11a | 20 | 6 | 17.0 | 16.47 | 0.031 | Front | Ant2 | 99.0 | 15 | 0.0788 | 0.030 | 1.130 | 1.010 | 0.034 | - |
| 5 300 | 60 | 802.11a | 20 | 6 | 20.0 | 19.15 | -0.04 | Rear | MIMO | 99.0 | 15 | 0.294 | 0.136 | 1.262 | 1.010 | 0.173 | - |
| 5 300 | 60 | 802.11a | 20 | 6 | 20.0 | 19.15 | | Front | MIMO | 99.0 | 15 | 0.131 | | | | | - |
| 5 500 | 100 | 802.11n | 20 | MCS0 | 20.0 | 18.93 | -0.04 | Rear | MIMO | 99.7 | 15 | 0.220 | 0.097 | 1.380 | 1.003 | 0.134 | - |
| 5 500 | 100 | 802.11n | 20 | MCS0 | 20.0 | 18.93 | | Front | MIMO | 99.7 | 15 | 0.0997 | | | | | - |
| 5 785 | 157 | 802.11a | 20 | 6 | 20.0 | 19.14 | -0.15 | Rear | MIMO | 99.0 | 15 | 0.326 | 0.138 | 1.330 | 1.010 | 0.185 | 56 |
| 5 785 | 157 | 802.11a | 20 | 6 | 20.0 | 19.14 | | Front | MIMO | 99.0 | 15 | 0.103 | | | | | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | |

| NII Body-Worn SAR 1g with mmWave | | | | | | | | | | | | | | | | | |
|---|-----|----------|------------------|------------------|---------------------|-------------------|------------------|---------------|--------------|------------|---------------|--|------------------|----------------|-----------------------|-------------------|----------|
| Frequency | | Mode | Band width (MHz) | Data Rate (Mbps) | Tune-Up Limit (dBm) | Meas. Power (dBm) | Power Drift (dB) | Test Position | Ant. Config. | Duty Cycle | Distance (mm) | Area Scan Peak SAR (W/kg) | Meas. SAR (W/kg) | Scaling Factor | Scaling Factor (Duty) | Scaled SAR (W/kg) | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | | | |
| 5 290 | 58 | 802.11ac | 80 | MCS0 | 11.0 | 10.49 | 0.18 | Rear | Ant1 | 99.7 | 15 | 0.0918 | 0.037 | 1.125 | 1.003 | 0.042 | 57 |
| 5 290 | 58 | 802.11ac | 80 | MCS0 | 11.0 | 10.49 | | Front | Ant1 | 99.7 | 15 | 0.0236 | | | | | - |
| 5 530 | 106 | 802.11ac | 80 | MCS0 | 11.0 | 10.72 | 0.01 | Rear | Ant1 | 99.7 | 15 | 0.0415 | 0.013 | 1.067 | 1.003 | 0.014 | - |
| 5 530 | 106 | 802.11ac | 80 | MCS0 | 11.0 | 10.72 | | Front | Ant1 | 99.7 | 15 | 0.00964 | | | | | - |
| 5 775 | 155 | 802.11ac | 80 | MCS0 | 11.0 | 10.35 | 0.14 | Rear | Ant1 | 99.7 | 15 | 0.0803 | 0.025 | 1.161 | 1.003 | 0.029 | - |
| 5 775 | 155 | 802.11ac | 80 | MCS0 | 11.0 | 10.35 | | Front | Ant1 | 99.7 | 15 | 0.03 | | | | | - |
| 5 290 | 58 | 802.11ac | 80 | MCS0 | 11.0 | 9.14 | 0.01 | Rear | Ant2 | 99.7 | 15 | 0.0489 | 0.011 | 1.535 | 1.003 | 0.017 | - |
| 5 290 | 58 | 802.11ac | 80 | MCS0 | 11.0 | 9.14 | | Front | Ant2 | 99.7 | 15 | 0.0444 | | | | | - |
| 5690 | 138 | 802.11ac | 80 | MCS0 | 11.0 | 10.81 | 0.01 | Rear | Ant2 | 99.7 | 15 | 0.0436 | 0.00859 | 1.045 | 1.003 | 0.009 | - |
| 5690 | 138 | 802.11ac | 80 | MCS0 | 11.0 | 10.81 | | Front | Ant2 | 99.7 | 15 | 0.0222 | | | | | - |
| 5 775 | 155 | 802.11ac | 80 | MCS0 | 11.0 | 10.50 | 0.01 | Rear | Ant2 | 99.7 | 15 | 0.0722 | 0.028 | 1.122 | 1.003 | 0.032 | - |
| 5 775 | 155 | 802.11ac | 80 | MCS0 | 11.0 | 10.50 | | Front | Ant2 | 99.7 | 15 | 0.0533 | | | | | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | |

| DSS Body-Worn SAR | | | | | | | | | | | | | |
|---|-----|---------------|---------------------|-------------------|------------------|---------------|--------------|---------------|--|----------------|-----------------------|-------------------|----------|
| Frequency | | Mode | Tune-Up Limit (dBm) | Meas. Power (dBm) | Power Drift (dB) | Test Position | Ant. Config. | Distance (mm) | Meas. SAR (W/kg) | Scaling Factor | Scaling Factor (Duty) | Scaled SAR (W/kg) | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | |
| 2 441 | 39 | Bluetooth DH5 | 17.0 | 16.96 | 0.17 | Rear | Ant1 | 15 | 0.060 | 1.009 | 1.302 | 0.079 | - |
| 2 441 | 39 | Bluetooth DH5 | 17.0 | 16.96 | 0.09 | Front | Ant1 | 15 | 0.063 | 1.009 | 1.302 | 0.083 | 58 |
| 2 441 | 39 | Bluetooth DH5 | 17.0 | 16.29 | -0.13 | Rear | Ant2 | 15 | 0.012 | 1.178 | 1.302 | 0.018 | - |
| 2 441 | 39 | Bluetooth DH5 | 17.0 | 16.29 | 0.01 | Front | Ant2 | 15 | 0.011 | 1.178 | 1.302 | 0.017 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | |

13.3 Hotspot SAR Measurement Results(DSI = 3)

| CDMA BC10 (\$90S) Hotspot SAR | | | | | | | | | | | | | |
|---|-----|-----------|------------|---------------|-------------|-------------|--|------------|----------|-----------|----------------|--------------|----------|
| Frequency | | Mode | | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | |
| 820 | 560 | CDMA BC10 | EVDO Rev.0 | 25.5 | 24.95 | 0.01 | Rear | 1:1 | 10 | 0.572 | 1.135 | 0.649 | 59 |
| 820 | 560 | CDMA BC10 | EVDO Rev.0 | 25.5 | 24.95 | -0.02 | Front | 1:1 | 10 | 0.501 | 1.135 | 0.569 | - |
| 820 | 560 | CDMA BC10 | EVDO Rev.0 | 25.5 | 24.95 | 0.03 | Left | 1:1 | 10 | 0.075 | 1.135 | 0.085 | - |
| 820 | 560 | CDMA BC10 | EVDO Rev.0 | 25.5 | 24.95 | -0.04 | Right | 1:1 | 10 | 0.225 | 1.135 | 0.255 | - |
| 820 | 560 | CDMA BC10 | EVDO Rev.0 | 25.5 | 24.95 | 0.03 | Bottom | 1:1 | 10 | 0.341 | 1.135 | 0.387 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | | |

| CDMA BC0 (\$22H) Hotspot SAR | | | | | | | | | | | | | |
|---|-----|----------|------------|---------------|-------------|-------------|--|------------|----------|-----------|----------------|--------------|----------|
| Frequency | | Mode | | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | |
| 836.52 | 384 | CDMA BC0 | EVDO Rev.0 | 25.8 | 24.85 | 0.10 | Rear | 1:1 | 10 | 0.510 | 1.245 | 0.635 | 60 |
| 836.52 | 384 | CDMA BC0 | EVDO Rev.0 | 25.8 | 24.85 | -0.09 | Front | 1:1 | 10 | 0.479 | 1.245 | 0.596 | - |
| 836.52 | 384 | CDMA BC0 | EVDO Rev.0 | 25.8 | 24.85 | -0.19 | Left | 1:1 | 10 | 0.078 | 1.245 | 0.097 | - |
| 836.52 | 384 | CDMA BC0 | EVDO Rev.0 | 25.8 | 24.85 | -0.19 | Right | 1:1 | 10 | 0.132 | 1.245 | 0.164 | - |
| 836.52 | 384 | CDMA BC0 | EVDO Rev.0 | 25.8 | 24.85 | -0.18 | Bottom | 1:1 | 10 | 0.349 | 1.245 | 0.434 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | | |

| PCS CDMA Hotspot SAR | | | | | | | | | | | | | |
|---|-----|----------|------------|---------------|-------------|-------------|--|------------|----------|-----------|----------------|--------------|----------|
| Frequency | | Mode | | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | |
| 1 880.0 | 600 | PCS CDMA | EVDO Rev.0 | 19.0 | 18.68 | 0.14 | Rear | 1:1 | 10 | 0.365 | 1.076 | 0.393 | - |
| 1 880.0 | 600 | PCS CDMA | EVDO Rev.0 | 19.0 | 18.68 | 0.02 | Front | 1:1 | 10 | 0.396 | 1.076 | 0.426 | - |
| 1 880.0 | 600 | PCS CDMA | EVDO Rev.0 | 19.0 | 18.68 | -0.11 | Left | 1:1 | 10 | 0.034 | 1.076 | 0.037 | - |
| 1 880.0 | 600 | PCS CDMA | EVDO Rev.0 | 19.0 | 18.68 | 0.13 | Right | 1:1 | 10 | 0.037 | 1.076 | 0.040 | - |
| 1 880.0 | 600 | PCS CDMA | EVDO Rev.0 | 19.0 | 18.68 | 0.04 | Bottom | 1:1 | 10 | 0.654 | 1.076 | 0.704 | 61 |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | | |

| GSM 850 Hotspot SAR | | | | | | | | | | | | |
|---|-----|----------|---------------|-------------|-------------|---------------|--|----------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | (dB) | (dB) | (dB) | | | (mm) | (W/kg) | | (W/kg) | |
| 836.6 | 190 | GPRS 2Tx | 32.5 | 31.57 | 0.02 | Rear | 1:4.15 | 10 | 0.599 | 1.239 | 0.742 | 62 |
| 836.6 | 190 | GPRS 2Tx | 32.5 | 31.57 | -0.19 | Front | 1:4.15 | 10 | 0.528 | 1.239 | 0.654 | - |
| 836.6 | 190 | GPRS 2Tx | 32.5 | 31.57 | -0.12 | Left | 1:4.15 | 10 | 0.066 | 1.239 | 0.082 | - |
| 836.6 | 190 | GPRS 2Tx | 32.5 | 31.57 | -0.04 | Right | 1:4.15 | 10 | 0.146 | 1.239 | 0.181 | - |
| 836.6 | 190 | GPRS 2Tx | 32.5 | 31.57 | -0.05 | Bottom | 1:4.15 | 10 | 0.381 | 1.239 | 0.472 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | |

| GSM 1900 Hotspot SAR | | | | | | | | | | | | |
|---|-----|----------|---------------|-------------|-------------|---------------|--|----------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | (dB) | (dB) | (dB) | | | (mm) | (W/kg) | | (W/kg) | |
| 1 880.0 | 661 | GPRS 3Tx | 25.0 | 23.99 | 0.11 | Rear | 1:2.77 | 10 | 0.320 | 1.262 | 0.404 | - |
| 1 880.0 | 661 | GPRS 3Tx | 25.0 | 23.99 | 0.01 | Front | 1:2.77 | 10 | 0.346 | 1.262 | 0.437 | - |
| 1 880.0 | 661 | GPRS 3Tx | 25.0 | 23.99 | 0.11 | Left | 1:2.77 | 10 | 0.043 | 1.262 | 0.054 | - |
| 1 880.0 | 661 | GPRS 3Tx | 25.0 | 23.99 | -0.14 | Right | 1:2.77 | 10 | 0.047 | 1.262 | 0.059 | - |
| 1 850.2 | 512 | GPRS 3Tx | 25.0 | 23.99 | -0.05 | Bottom | 1:2.77 | 10 | 0.672 | 1.262 | 0.848 | - |
| 1 880.0 | 661 | GPRS 3Tx | 25.0 | 23.81 | -0.05 | Bottom | 1:2.77 | 10 | 0.783 | 1.315 | 1.030 | 63 |
| 1 909.8 | 810 | GPRS 3Tx | 25.0 | 23.63 | -0.11 | Bottom | 1:2.77 | 10 | 0.780 | 1.371 | 1.069 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | |

| UMTS 850 Hotspot SAR | | | | | | | | | | | | |
|---|------|------|---------------|-------------|-------------|--|------------|----------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | (dB) | (dB) | (dB) | | | | | | | |
| 836.6 | 4183 | RMC | 25.0 | 23.60 | -0.02 | Rear | 1:1 | 10 | 0.420 | 1.380 | 0.580 | 64 |
| 836.6 | 4183 | RMC | 25.0 | 23.60 | 0.01 | Front | 1:1 | 10 | 0.312 | 1.380 | 0.431 | - |
| 836.6 | 4183 | RMC | 25.0 | 23.60 | -0.01 | Left | 1:1 | 10 | 0.074 | 1.380 | 0.102 | - |
| 836.6 | 4183 | RMC | 25.0 | 23.60 | -0.04 | Right | 1:1 | 10 | 0.163 | 1.380 | 0.225 | - |
| 836.6 | 4183 | RMC | 25.0 | 23.60 | 0.06 | Bottom | 1:1 | 10 | 0.252 | 1.380 | 0.348 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | | |

| UMTS 1700 Hotspot SAR | | | | | | | | | | | | |
|---|------|------|---------------|-------------|-------------|--|------------|----------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | (dB) | (dB) | (dB) | | | | | | | |
| 1 732.4 | 1412 | RMC | 19.5 | 18.25 | 0.05 | Rear | 1:1 | 10 | 0.408 | 1.334 | 0.544 | - |
| 1 732.4 | 1412 | RMC | 19.5 | 18.25 | 0.14 | Front | 1:1 | 10 | 0.335 | 1.334 | 0.447 | - |
| 1 732.4 | 1412 | RMC | 19.5 | 18.25 | 0.04 | Left | 1:1 | 10 | 0.062 | 1.334 | 0.083 | - |
| 1 732.4 | 1412 | RMC | 19.5 | 18.25 | 0.14 | Right | 1:1 | 10 | 0.066 | 1.334 | 0.088 | - |
| 1732.4 | 1412 | RMC | 19.5 | 18.25 | -0.02 | Bottom | 1:1 | 10 | 0.594 | 1.334 | 0.792 | 65 |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | | |

| UMTS 1900 Hotspot SAR | | | | | | | | | | | | |
|---|------|------|---------------|-------------|-------------|--|------------|----------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | (dB) | (dB) | (dB) | | | | | | | |
| 1 880 | 9400 | RMC | 19.0 | 18.46 | 0.18 | Rear | 1:1 | 10 | 0.403 | 1.132 | 0.456 | - |
| 1 880 | 9400 | RMC | 19.0 | 18.46 | -0.09 | Front | 1:1 | 10 | 0.419 | 1.132 | 0.474 | - |
| 1 880 | 9400 | RMC | 19.0 | 18.46 | -0.06 | Left | 1:1 | 10 | 0.047 | 1.132 | 0.053 | - |
| 1 880 | 9400 | RMC | 19.0 | 18.46 | -0.07 | Right | 1:1 | 10 | 0.052 | 1.132 | 0.059 | - |
| 1 880 | 9400 | RMC | 19.0 | 18.46 | 0.02 | Bottom | 1:1 | 10 | 0.895 | 1.132 | 1.013 | - |
| 1 852.4 | 9262 | RMC | 19.0 | 18.47 | 0.01 | Bottom | 1:1 | 10 | 0.915 | 1.130 | 1.034 | - |
| 1 907.6 | 9538 | RMC | 19.0 | 18.69 | -0.03 | Bottom | 1:1 | 10 | 0.958 | 1.074 | 1.029 | 66 |
| 1 907.6 | 9538 | RMC | 19.0 | 18.69 | -0.03 | Bottom | 1:1 | 10 | 0.930 | 1.074 | 0.999 | * |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | | |

Note: * Data entry indicate Variability measurement.

| LTE Band 7 Hotspot SAR | | | | | | | | | | | | | | | | |
|---|-------|------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|----------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | | |
| 2 510 | 20850 | QPSK | 20 | 21.0 | 19.55 | -0.11 | Rear | 0 | 1 | 0 | 1:1 | 10 | 0.169 | 1.396 | 0.236 | - |
| 2 510 | 20850 | QPSK | 20 | 21.0 | 19.67 | -0.10 | Rear | 0 | 50 | 25 | 1:1 | 10 | 0.189 | 1.358 | 0.257 | - |
| 2 510 | 20850 | QPSK | 20 | 21.0 | 19.55 | 0.11 | Front | 0 | 1 | 0 | 1:1 | 10 | 0.219 | 1.396 | 0.306 | - |
| 2 510 | 20850 | QPSK | 20 | 21.0 | 19.67 | -0.13 | Front | 0 | 50 | 25 | 1:1 | 10 | 0.238 | 1.358 | 0.323 | - |
| 2 510 | 20850 | QPSK | 20 | 21.0 | 19.55 | -0.10 | Left | 0 | 1 | 0 | 1:1 | 10 | 0.148 | 1.396 | 0.207 | - |
| 2 510 | 20850 | QPSK | 20 | 21.0 | 19.67 | -0.11 | Left | 0 | 50 | 25 | 1:1 | 10 | 0.159 | 1.358 | 0.216 | - |
| 2 510 | 20850 | QPSK | 20 | 21.0 | 19.55 | -0.05 | Bottom | 0 | 1 | 0 | 1:1 | 10 | 0.351 | 1.396 | 0.490 | - |
| 2 510 | 20850 | QPSK | 20 | 21.0 | 19.67 | -0.01 | Bottom | 0 | 50 | 25 | 1:1 | 10 | 0.370 | 1.358 | 0.503 | 67 |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | | | | |

| LTE Band 12 Hotspot SAR | | | | | | | | | | | | | | | | |
|---|-------|------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|----------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | | |
| 707.5 | 23095 | QPSK | 10 | 25.5 | 24.64 | -0.03 | Rear | 0 | 1 | 49 | 1:1 | 10 | 0.363 | 1.219 | 0.442 | 68 |
| 707.5 | 23095 | QPSK | 10 | 24.5 | 23.77 | 0.01 | Rear | 1 | 25 | 24 | 1:1 | 10 | 0.299 | 1.183 | 0.354 | - |
| 707.5 | 23095 | QPSK | 10 | 25.5 | 24.64 | -0.05 | Front | 0 | 1 | 49 | 1:1 | 10 | 0.299 | 1.219 | 0.364 | - |
| 707.5 | 23095 | QPSK | 10 | 24.5 | 23.77 | -0.04 | Front | 1 | 25 | 24 | 1:1 | 10 | 0.250 | 1.183 | 0.296 | - |
| 707.5 | 23095 | QPSK | 10 | 25.5 | 24.64 | -0.18 | Left | 0 | 1 | 49 | 1:1 | 10 | 0.128 | 1.219 | 0.156 | - |
| 707.5 | 23095 | QPSK | 10 | 24.5 | 23.77 | -0.07 | Left | 1 | 25 | 24 | 1:1 | 10 | 0.114 | 1.183 | 0.135 | - |
| 707.5 | 23095 | QPSK | 10 | 25.5 | 24.64 | -0.17 | Right | 0 | 1 | 49 | 1:1 | 10 | 0.272 | 1.219 | 0.332 | - |
| 707.5 | 23095 | QPSK | 10 | 24.5 | 23.77 | -0.16 | Right | 1 | 25 | 24 | 1:1 | 10 | 0.228 | 1.183 | 0.270 | - |
| 707.5 | 23095 | QPSK | 10 | 25.5 | 24.64 | -0.13 | Bottom | 0 | 1 | 49 | 1:1 | 10 | 0.293 | 1.219 | 0.357 | - |
| 707.5 | 23095 | QPSK | 10 | 24.5 | 23.77 | -0.11 | Bottom | 1 | 25 | 24 | 1:1 | 10 | 0.244 | 1.183 | 0.289 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | | | | |

| LTE Band 13 Hotspot SAR | | | | | | | | | | | | | | | | |
|---|-------|------|------------|---------------|-------------|-------------|--|-----|---------|-----------|------------|----------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | | |
| 782 | 23230 | QPSK | 10 | 25.5 | 24.49 | -0.01 | Rear | 0 | 1 | 0 | 1:1 | 10 | 0.619 | 1.262 | 0.781 | 69 |
| 782 | 23230 | QPSK | 10 | 24.5 | 23.56 | 0.02 | Rear | 1 | 25 | 24 | 1:1 | 10 | 0.520 | 1.242 | 0.646 | - |
| 782 | 23230 | QPSK | 10 | 25.5 | 24.49 | -0.01 | Front | 0 | 1 | 0 | 1:1 | 10 | 0.482 | 1.262 | 0.608 | - |
| 782 | 23230 | QPSK | 10 | 24.5 | 23.56 | -0.04 | Front | 1 | 25 | 24 | 1:1 | 10 | 0.408 | 1.242 | 0.507 | - |
| 782 | 23230 | QPSK | 10 | 25.5 | 24.49 | -0.03 | Left | 0 | 1 | 0 | 1:1 | 10 | 0.182 | 1.262 | 0.230 | - |
| 782 | 23230 | QPSK | 10 | 24.5 | 23.56 | -0.01 | Left | 1 | 25 | 24 | 1:1 | 10 | 0.155 | 1.242 | 0.192 | - |
| 782 | 23230 | QPSK | 10 | 25.5 | 24.49 | -0.19 | Right | 0 | 1 | 0 | 1:1 | 10 | 0.356 | 1.262 | 0.449 | - |
| 782 | 23230 | QPSK | 10 | 24.5 | 23.56 | -0.03 | Right | 1 | 25 | 24 | 1:1 | 10 | 0.279 | 1.242 | 0.346 | - |
| 782 | 23230 | QPSK | 10 | 25.5 | 24.49 | -0.12 | Bottom | 0 | 1 | 0 | 1:1 | 10 | 0.435 | 1.262 | 0.549 | - |
| 782 | 23230 | QPSK | 10 | 24.5 | 23.56 | -0.08 | Bottom | 1 | 25 | 24 | 1:1 | 10 | 0.350 | 1.242 | 0.435 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | | | | | |

| LTE Band 14 Hotspot SAR | | | | | | | | | | | | | | | | |
|---|-------|------|------------|---------------|-------------|-------------|--|-----|---------|-----------|------------|----------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | | |
| 793 | 23330 | QPSK | 10 | 25.5 | 24.35 | 0.02 | Rear | 0 | 1 | 0 | 1:1 | 10 | 0.604 | 1.303 | 0.787 | 70 |
| 793 | 23330 | QPSK | 10 | 24.5 | 23.23 | -0.02 | Rear | 1 | 25 | 12 | 1:1 | 10 | 0.474 | 1.340 | 0.635 | - |
| 793 | 23330 | QPSK | 10 | 25.5 | 24.35 | -0.01 | Front | 0 | 1 | 0 | 1:1 | 10 | 0.482 | 1.303 | 0.628 | - |
| 793 | 23330 | QPSK | 10 | 24.5 | 23.23 | -0.10 | Front | 1 | 25 | 12 | 1:1 | 10 | 0.379 | 1.340 | 0.508 | - |
| 793 | 23330 | QPSK | 10 | 25.5 | 24.35 | 0.01 | Left | 0 | 1 | 0 | 1:1 | 10 | 0.167 | 1.303 | 0.218 | - |
| 793 | 23330 | QPSK | 10 | 24.5 | 23.23 | -0.07 | Left | 1 | 25 | 12 | 1:1 | 10 | 0.121 | 1.340 | 0.162 | - |
| 793 | 23330 | QPSK | 10 | 25.5 | 24.35 | -0.01 | Right | 0 | 1 | 0 | 1:1 | 10 | 0.375 | 1.303 | 0.489 | - |
| 793 | 23330 | QPSK | 10 | 24.5 | 23.23 | -0.01 | Right | 1 | 25 | 12 | 1:1 | 10 | 0.212 | 1.340 | 0.284 | - |
| 793 | 23330 | QPSK | 10 | 25.5 | 24.35 | -0.14 | Bottom | 0 | 1 | 0 | 1:1 | 10 | 0.409 | 1.303 | 0.533 | - |
| 793 | 23330 | QPSK | 10 | 24.5 | 23.23 | -0.13 | Bottom | 1 | 25 | 12 | 1:1 | 10 | 0.319 | 1.340 | 0.427 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | | | | | |

| LTE Band 25 Hotspot SAR | | | | | | | | | | | | | | | | |
|---|-------|------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|----------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | | |
| 1 905.0 | 26590 | QPSK | 20 | 19.0 | 17.67 | 0.01 | Rear | 0 | 1 | 99 | 1:1 | 10 | 0.372 | 1.358 | 0.505 | - |
| 1 905.0 | 26590 | QPSK | 20 | 19.0 | 17.80 | 0.11 | Rear | 0 | 50 | 49 | 1:1 | 10 | 0.469 | 1.318 | 0.618 | - |
| 1 905.0 | 26590 | QPSK | 20 | 19.0 | 17.67 | 0.14 | Front | 0 | 1 | 99 | 1:1 | 10 | 0.377 | 1.358 | 0.512 | - |
| 1 905.0 | 26590 | QPSK | 20 | 19.0 | 17.80 | 0.17 | Front | 0 | 50 | 49 | 1:1 | 10 | 0.382 | 1.318 | 0.504 | - |
| 1 905.0 | 26590 | QPSK | 20 | 19.0 | 17.67 | 0.16 | Left | 0 | 1 | 99 | 1:1 | 10 | 0.028 | 1.358 | 0.038 | - |
| 1 905.0 | 26590 | QPSK | 20 | 19.0 | 17.80 | -0.01 | Left | 0 | 50 | 49 | 1:1 | 10 | 0.028 | 1.318 | 0.037 | - |
| 1 905.0 | 26590 | QPSK | 20 | 19.0 | 17.67 | 0.19 | Right | 0 | 1 | 99 | 1:1 | 10 | 0.042 | 1.358 | 0.057 | - |
| 1 905.0 | 26590 | QPSK | 20 | 19.0 | 17.80 | 0.11 | Right | 0 | 50 | 49 | 1:1 | 10 | 0.041 | 1.318 | 0.054 | - |
| 1 905.0 | 26590 | QPSK | 20 | 19.0 | 17.67 | 0.02 | Bottom | 0 | 1 | 99 | 1:1 | 10 | 0.702 | 1.358 | 0.954 | - |
| 1 905.0 | 26590 | QPSK | 20 | 19.0 | 17.80 | -0.03 | Bottom | 0 | 50 | 49 | 1:1 | 10 | 0.729 | 1.318 | 0.961 | 71 |
| 1 882.5 | 26365 | QPSK | 20 | 19.0 | 17.46 | -0.04 | Bottom | 0 | 1 | 49 | 1:1 | 10 | 0.631 | 1.426 | 0.900 | - |
| 1 882.5 | 26365 | QPSK | 20 | 19.0 | 17.60 | -0.05 | Bottom | 0 | 50 | 0 | 1:1 | 10 | 0.653 | 1.380 | 0.901 | - |
| 1 860.0 | 26140 | QPSK | 20 | 19.0 | 17.66 | -0.03 | Bottom | 0 | 1 | 0 | 1:1 | 10 | 0.596 | 1.361 | 0.811 | - |
| 1 860.0 | 26140 | QPSK | 20 | 19.0 | 17.76 | -0.05 | Bottom | 0 | 50 | 0 | 1:1 | 10 | 0.624 | 1.330 | 0.830 | - |
| 1 860.0 | 26140 | QPSK | 20 | 19.0 | 17.62 | -0.08 | Bottom | 0 | 100 | 0 | 1:1 | 10 | 0.615 | 1.374 | 0.845 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | | | | |

| LTE Band 26 Hotspot SAR | | | | | | | | | | | | | | | | |
|---|-------|------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|----------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | | |
| 831.5 | 26865 | QPSK | 15 | 25.5 | 24.38 | -0.05 | Rear | 0 | 1 | 0 | 1:1 | 10 | 0.458 | 1.294 | 0.593 | 72 |
| 831.5 | 26865 | QPSK | 15 | 24.5 | 23.40 | 0.06 | Rear | 1 | 36 | 39 | 1:1 | 10 | 0.420 | 1.288 | 0.541 | - |
| 831.5 | 26865 | QPSK | 15 | 25.5 | 24.38 | -0.01 | Front | 0 | 1 | 0 | 1:1 | 10 | 0.376 | 1.294 | 0.487 | - |
| 831.5 | 26865 | QPSK | 15 | 24.5 | 23.40 | -0.03 | Front | 1 | 36 | 39 | 1:1 | 10 | 0.323 | 1.288 | 0.416 | - |
| 831.5 | 26865 | QPSK | 15 | 25.5 | 24.38 | 0.01 | Left | 0 | 1 | 0 | 1:1 | 10 | 0.090 | 1.294 | 0.116 | - |
| 831.5 | 26865 | QPSK | 15 | 24.5 | 23.40 | -0.03 | Left | 1 | 36 | 39 | 1:1 | 10 | 0.066 | 1.288 | 0.085 | - |
| 831.5 | 26865 | QPSK | 15 | 25.5 | 24.38 | -0.03 | Right | 0 | 1 | 0 | 1:1 | 10 | 0.124 | 1.294 | 0.160 | - |
| 831.5 | 26865 | QPSK | 15 | 24.5 | 23.40 | -0.10 | Right | 1 | 36 | 39 | 1:1 | 10 | 0.106 | 1.288 | 0.137 | - |
| 831.5 | 26865 | QPSK | 15 | 25.5 | 24.38 | -0.15 | Bottom | 0 | 1 | 0 | 1:1 | 10 | 0.288 | 1.294 | 0.373 | - |
| 831.5 | 26865 | QPSK | 15 | 24.5 | 23.40 | -0.11 | Bottom | 1 | 36 | 39 | 1:1 | 10 | 0.268 | 1.288 | 0.345 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | | | | |

| LTE Band 30 Hotspot SAR | | | | | | | | | | | | | | | | |
|---|-------|------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|----------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| MHz | Ch. | | | | | | | | | | | | | | | |
| 2 310 | 27710 | QPSK | 10 | 21.0 | 19.42 | 0.18 | Rear | 0 | 1 | 24 | 1:1 | 10 | 0.302 | 1.439 | 0.435 | - |
| 2 310 | 27710 | QPSK | 10 | 21.0 | 19.45 | -0.18 | Rear | 0 | 25 | 0 | 1:1 | 10 | 0.304 | 1.429 | 0.434 | 73 |
| 2 310 | 27710 | QPSK | 10 | 21.0 | 19.42 | 0.01 | Front | 0 | 1 | 24 | 1:1 | 10 | 0.201 | 1.439 | 0.289 | - |
| 2 310 | 27710 | QPSK | 10 | 21.0 | 19.45 | 0.13 | Front | 0 | 25 | 0 | 1:1 | 10 | 0.203 | 1.429 | 0.290 | - |
| 2 310 | 27710 | QPSK | 10 | 21.0 | 19.42 | -0.01 | Left | 0 | 1 | 24 | 1:1 | 10 | 0.137 | 1.439 | 0.197 | - |
| 2 310 | 27710 | QPSK | 10 | 21.0 | 19.45 | -0.05 | Left | 0 | 25 | 0 | 1:1 | 10 | 0.139 | 1.429 | 0.199 | - |
| 2 310 | 27710 | QPSK | 10 | 21.0 | 19.42 | -0.06 | Bottom | 0 | 1 | 24 | 1:1 | 10 | 0.231 | 1.439 | 0.332 | - |
| 2 310 | 27710 | QPSK | 10 | 21.0 | 19.45 | -0.07 | Bottom | 0 | 25 | 0 | 1:1 | 10 | 0.229 | 1.429 | 0.327 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | | | | |

| LTE Band 40 Hotspot SAR Low frequency range | | | | | | | | | | | | | | | | |
|---|-------|------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|----------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| MHz | Ch. | | | | | | | | | | | | | | | |
| 2 310 | 38750 | QPSK | 10 | 11.0 | 9.37 | 0.01 | Rear | 0 | 1 | 24 | 1:1.58 | 10 | 0.017 | 1.455 | 0.025 | - |
| 2 310 | 38750 | QPSK | 10 | 11.0 | 9.48 | 0.01 | Rear | 0 | 25 | 12 | 1:1.58 | 10 | 0.018 | 1.419 | 0.026 | - |
| 2 310 | 38750 | QPSK | 10 | 11.0 | 9.37 | 0.15 | Front | 0 | 1 | 24 | 1:1.58 | 10 | 0.019 | 1.455 | 0.028 | 74 |
| 2 310 | 38750 | QPSK | 10 | 11.0 | 9.48 | -0.03 | Front | 0 | 25 | 12 | 1:1.58 | 10 | 0.019 | 1.419 | 0.027 | - |
| 2 310 | 38750 | QPSK | 10 | 11.0 | 9.37 | 0.06 | Left | 0 | 1 | 24 | 1:1.58 | 10 | 0.011 | 1.455 | 0.016 | - |
| 2 310 | 38750 | QPSK | 10 | 11.0 | 9.48 | -0.10 | Left | 0 | 25 | 12 | 1:1.58 | 10 | 0.011 | 1.419 | 0.016 | - |
| 2 310 | 38750 | QPSK | 10 | 11.0 | 9.37 | -0.08 | Bottom | 0 | 1 | 24 | 1:1.58 | 10 | 0.017 | 1.455 | 0.025 | - |
| 2 310 | 38750 | QPSK | 10 | 11.0 | 9.48 | -0.04 | Bottom | 0 | 25 | 12 | 1:1.58 | 10 | 0.017 | 1.419 | 0.024 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | | | | |

| LTE Band 40 Hotspot SAR High frequency range | | | | | | | | | | | | | | | | |
|---|-------|------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|----------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| MHz | Ch. | | | | | | | | | | | | | | | |
| 2 355 | 39200 | QPSK | 10 | 11.0 | 9.47 | -0.14 | Rear | 0 | 1 | 24 | 1:1.58 | 10 | 0.025 | 1.422 | 0.036 | - |
| 2 355 | 39200 | QPSK | 10 | 11.0 | 9.56 | 0.19 | Rear | 0 | 25 | 12 | 1:1.58 | 10 | 0.026 | 1.393 | 0.036 | - |
| 2 355 | 39200 | QPSK | 10 | 11.0 | 9.47 | -0.14 | Front | 0 | 1 | 24 | 1:1.58 | 10 | 0.018 | 1.422 | 0.026 | - |
| 2 355 | 39200 | QPSK | 10 | 11.0 | 9.56 | -0.18 | Front | 0 | 25 | 12 | 1:1.58 | 10 | 0.019 | 1.393 | 0.026 | - |
| 2 355 | 39200 | QPSK | 10 | 11.0 | 9.47 | -0.14 | Left | 0 | 1 | 24 | 1:1.58 | 10 | 0.013 | 1.422 | 0.018 | - |
| 2 355 | 39200 | QPSK | 10 | 11.0 | 9.56 | -0.12 | Left | 0 | 25 | 12 | 1:1.58 | 10 | 0.013 | 1.393 | 0.018 | - |
| 2 355 | 39200 | QPSK | 10 | 11.0 | 9.47 | -0.14 | Right | 0 | 1 | 24 | 1:1.58 | 10 | 0.0031 | 1.422 | 0.004 | - |
| 2 355 | 39200 | QPSK | 10 | 11.0 | 9.56 | -0.09 | Right | 0 | 25 | 12 | 1:1.58 | 10 | 0.00323 | 1.393 | 0.004 | - |
| 2 355 | 39200 | QPSK | 10 | 11.0 | 9.47 | 0.15 | Bottom | 0 | 1 | 24 | 1:1.58 | 10 | 0.028 | 1.422 | 0.040 | 75 |
| 2 355 | 39200 | QPSK | 10 | 11.0 | 9.56 | 0.05 | Bottom | 0 | 25 | 12 | 1:1.58 | 10 | 0.028 | 1.393 | 0.039 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | | | | |

| LTE TDD Band 41 Hotspot SAR | | | | | | | | | | | | | | | | |
|---|-------|------|------------------|---------------------|-------------------|------------------|--|----------|---------|-----------|------------|---------------|------------------|----------------|-------------------|----------|
| Frequency | | Mode | Band width (MHz) | Tune-Up Limit (dBm) | Meas. Power (dBm) | Power Drift (dB) | Test Position | MPR (dB) | RB Size | RB offset | Duty Cycle | Distance (mm) | Meas. SAR (W/kg) | Scaling Factor | Scaled SAR (W/kg) | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | | |
| 2 506.0 | 39750 | QPSK | 20 | 24.0 | 22.54 | 0.04 | Rear | 0 | 1 | 0 | 1:1.58 | 10 | 0.279 | 1.400 | 0.390 | |
| 2 506.0 | 39750 | QPSK | 20 | 24.0 | 22.60 | -0.11 | Rear | 0 | 50 | 25 | 1:1.58 | 10 | 0.217 | 1.380 | 0.300 | - |
| 2 506.0 | 39750 | QPSK | 20 | 24.0 | 22.54 | -0.04 | Front | 0 | 1 | 0 | 1:1.58 | 10 | 0.208 | 1.400 | 0.291 | - |
| 2 506.0 | 39750 | QPSK | 20 | 24.0 | 22.60 | -0.15 | Front | 0 | 50 | 25 | 1:1.58 | 10 | 0.272 | 1.380 | 0.375 | - |
| 2 506.0 | 39750 | QPSK | 20 | 24.0 | 22.54 | 0.11 | Left | 0 | 1 | 0 | 1:1.58 | 10 | 0.164 | 1.400 | 0.230 | - |
| 2 506.0 | 39750 | QPSK | 20 | 24.0 | 22.60 | -0.13 | Left | 0 | 50 | 25 | 1:1.58 | 10 | 0.187 | 1.380 | 0.258 | - |
| 2 506.0 | 39750 | QPSK | 20 | 24.0 | 22.54 | 0.01 | Bottom | 0 | 1 | 0 | 1:1.58 | 10 | 0.315 | 1.400 | 0.441 | 76 |
| 2 506.0 | 39750 | QPSK | 20 | 24.0 | 22.60 | 0.01 | Bottom | 0 | 50 | 25 | 1:1.58 | 10 | 0.299 | 1.380 | 0.413 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | | | | | |

| LTE Band 66 Hotspot SAR | | | | | | | | | | | | | | | | |
|---|--------|------|------------------|---------------------|-------------------|------------------|--|----------|---------|-----------|------------|---------------|------------------|----------------|-------------------|----------|
| Frequency | | Mode | Band width (MHz) | Tune-Up Limit (dBm) | Meas. Power (dBm) | Power Drift (dB) | Test Position | MPR (dB) | RB Size | RB offset | Duty Cycle | Distance (mm) | Meas. SAR (W/kg) | Scaling Factor | Scaled SAR (W/kg) | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | | |
| 1 770 | 132572 | QPSK | 20 | 19.0 | 18.07 | 0.17 | Rear | 0 | 1 | 49 | 1:1 | 10 | 0.427 | 1.239 | 0.529 | - |
| 1 770 | 132572 | QPSK | 20 | 19.0 | 18.20 | 0.15 | Rear | 0 | 50 | 25 | 1:1 | 10 | 0.442 | 1.202 | 0.531 | - |
| 1 770 | 132572 | QPSK | 20 | 19.0 | 18.07 | 0.06 | Front | 0 | 1 | 49 | 1:1 | 10 | 0.415 | 1.239 | 0.514 | - |
| 1 770 | 132572 | QPSK | 20 | 19.0 | 18.20 | 0.12 | Front | 0 | 50 | 25 | 1:1 | 10 | 0.434 | 1.202 | 0.522 | - |
| 1 770 | 132572 | QPSK | 20 | 19.0 | 18.07 | 0.07 | Left | 0 | 1 | 49 | 1:1 | 10 | 0.058 | 1.239 | 0.072 | - |
| 1 770 | 132572 | QPSK | 20 | 19.0 | 18.20 | -0.08 | Left | 0 | 50 | 25 | 1:1 | 10 | 0.059 | 1.202 | 0.071 | - |
| 1 770 | 132572 | QPSK | 20 | 19.0 | 18.07 | 0.14 | Right | 0 | 1 | 49 | 1:1 | 10 | 0.050 | 1.239 | 0.062 | - |
| 1 770 | 132572 | QPSK | 20 | 19.0 | 18.20 | 0.03 | Right | 0 | 50 | 25 | 1:1 | 10 | 0.052 | 1.202 | 0.063 | - |
| 1 720 | 132072 | QPSK | 20 | 19.0 | 17.90 | -0.06 | Bottom | 0 | 1 | 49 | 1:1 | 10 | 0.595 | 1.288 | 0.767 | |
| 1 720 | 132072 | QPSK | 20 | 19.0 | 18.01 | -0.06 | Bottom | 0 | 50 | 25 | 1:1 | 10 | 0.637 | 1.256 | 0.800 | |
| 1 745 | 132322 | QPSK | 20 | 19.0 | 17.99 | -0.10 | Bottom | 0 | 1 | 49 | 1:1 | 10 | 0.667 | 1.262 | 0.842 | |
| 1 745 | 132322 | QPSK | 20 | 19.0 | 18.06 | -0.04 | Bottom | 0 | 50 | 25 | 1:1 | 10 | 0.694 | 1.242 | 0.862 | |
| 1 770 | 132572 | QPSK | 20 | 19.0 | 18.07 | -0.01 | Bottom | 0 | 1 | 49 | 1:1 | 10 | 0.688 | 1.239 | 0.852 | - |
| 1 770 | 132572 | QPSK | 20 | 19.0 | 18.20 | -0.08 | Bottom | 0 | 50 | 25 | 1:1 | 10 | 0.716 | 1.202 | 0.861 | - |
| 1 770 | 132572 | QPSK | 20 | 19.0 | 18.09 | -0.08 | Bottom | 0 | 100 | 0 | 1:1 | 10 | 0.723 | 1.233 | 0.892 | 77 |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | | | | | |

| LTE Band 71 Hotspot SAR | | | | | | | | | | | | | | | | |
|---|--------|------|------------|---------------|-------------|-------------|--|-----|---------|-----------|------------|----------|-----------|----------------|--------------|----------|
| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | | |
| 680.5 | 133297 | QPSK | 20 | 25.5 | 24.75 | 0.01 | Rear | 0 | 1 | 99 | 1:1 | 10 | 0.430 | 1.189 | 0.511 | 78 |
| 680.5 | 133297 | QPSK | 20 | 24.5 | 23.84 | -0.05 | Rear | 1 | 50 | 0 | 1:1 | 10 | 0.363 | 1.164 | 0.423 | - |
| 680.5 | 133297 | QPSK | 20 | 25.5 | 24.75 | -0.11 | Front | 0 | 1 | 99 | 1:1 | 10 | 0.300 | 1.189 | 0.357 | - |
| 680.5 | 133297 | QPSK | 20 | 24.5 | 23.84 | -0.04 | Front | 1 | 50 | 0 | 1:1 | 10 | 0.250 | 1.164 | 0.291 | - |
| 680.5 | 133297 | QPSK | 20 | 25.5 | 24.75 | 0.02 | Left | 0 | 1 | 99 | 1:1 | 10 | 0.184 | 1.189 | 0.219 | - |
| 680.5 | 133297 | QPSK | 20 | 24.5 | 23.84 | -0.01 | Left | 1 | 50 | 0 | 1:1 | 10 | 0.196 | 1.164 | 0.228 | - |
| 680.5 | 133297 | QPSK | 20 | 25.5 | 24.75 | -0.01 | Right | 0 | 1 | 99 | 1:1 | 10 | 0.323 | 1.189 | 0.384 | - |
| 680.5 | 133297 | QPSK | 20 | 24.5 | 23.84 | -0.03 | Right | 1 | 50 | 0 | 1:1 | 10 | 0.305 | 1.164 | 0.355 | - |
| 680.5 | 133297 | QPSK | 20 | 25.5 | 24.75 | -0.04 | Bottom | 0 | 1 | 99 | 1:1 | 10 | 0.378 | 1.189 | 0.449 | - |
| 680.5 | 133297 | QPSK | 20 | 24.5 | 23.84 | -0.12 | Bottom | 1 | 50 | 0 | 1:1 | 10 | 0.312 | 1.164 | 0.363 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | | | | | |

NR Band n5 (Cell) Hotspot SAR

| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Distance | Meas. SAR (W/kg) | Scaling Factor | Scaled SAR | Plot No. |
|---|--------|-----------------|------------|---------------|-------------|-------------|--|------|---------|-----------|------------|----------|------------------|----------------|--------------|----------|
| Mhz | Ch. | | (Mhz) | (dBm) | (dBm) | (dB) | | (dB) | (dB) | (mm) | | (W/kg) | | | | |
| 836.5 | 167300 | DFT-s OFDM QPSK | 20 | 25.5 | 24.59 | -0.09 | Rear | 0 | 1 | 1 | 1:1 | 10 | 0.253 | 1.233 | 0.312 | - |
| 836.5 | 167300 | DFT-s OFDM QPSK | 20 | 25.5 | 24.57 | -0.15 | Rear | 0 | 50 | 28 | 1:1 | 10 | 0.255 | 1.239 | 0.316 | 79 |
| 836.5 | 167300 | DFT-s OFDM QPSK | 20 | 25.5 | 24.59 | -0.07 | Front | 0 | 1 | 1 | 1:1 | 10 | 0.191 | 1.233 | 0.236 | - |
| 836.5 | 167300 | DFT-s OFDM QPSK | 20 | 25.5 | 24.57 | -0.08 | Front | 0 | 50 | 28 | 1:1 | 10 | 0.216 | 1.239 | 0.268 | - |
| 836.5 | 167300 | DFT-s OFDM QPSK | 20 | 25.5 | 24.59 | -0.01 | Left | 0 | 1 | 1 | 1:1 | 10 | 0.061 | 1.233 | 0.075 | - |
| 836.5 | 167300 | DFT-s OFDM QPSK | 20 | 25.5 | 24.57 | -0.05 | Left | 0 | 50 | 28 | 1:1 | 10 | 0.036 | 1.239 | 0.045 | - |
| 836.5 | 167300 | DFT-s OFDM QPSK | 20 | 25.5 | 24.59 | -0.09 | Right | 0 | 1 | 1 | 1:1 | 10 | 0.046 | 1.233 | 0.057 | - |
| 836.5 | 167300 | DFT-s OFDM QPSK | 20 | 25.5 | 24.57 | -0.01 | Right | 0 | 50 | 28 | 1:1 | 10 | 0.035 | 1.239 | 0.043 | - |
| 836.5 | 167300 | DFT-s OFDM QPSK | 20 | 25.5 | 24.59 | 0.14 | Bottom | 0 | 1 | 1 | 1:1 | 10 | 0.083 | 1.233 | 0.102 | - |
| 836.5 | 167300 | DFT-s OFDM QPSK | 20 | 25.5 | 24.57 | 0.08 | Bottom | 0 | 50 | 28 | 1:1 | 10 | 0.094 | 1.239 | 0.116 | - |
| 836.5 | 167300 | CP QPSK | 20 | 24.0 | 23.31 | 0.01 | Rear | 1.5 | 1 | 1 | 1:1 | 10 | 0.117 | 1.172 | 0.137 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | | | | | |

NR Band n25 Hotspot SAR

| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Distance | Meas. SAR (W/kg) | Scaling Factor | Scaled SAR | Plot No. |
|---|--------|-----------------|------------|---------------|-------------|-------------|--|------|---------|-----------|------------|----------|------------------|----------------|--------------|----------|
| Mhz | Ch. | | (Mhz) | (dBm) | (dBm) | (dB) | | (dB) | (dB) | (mm) | | (W/kg) | | | | |
| 1 905.0 | 381000 | DFT-s OFDM QPSK | 20 | 19.5 | 19.00 | -0.09 | Rear | 0 | 1 | 53 | 1:1 | 10 | 0.384 | 1.122 | 0.431 | - |
| 1 905.0 | 381000 | DFT-s OFDM QPSK | 20 | 19.5 | 18.91 | 0.17 | Rear | 0 | 50 | 28 | 1:1 | 10 | 0.337 | 1.146 | 0.386 | - |
| 1 905.0 | 381000 | DFT-s OFDM QPSK | 20 | 19.5 | 19.00 | -0.14 | Front | 0 | 1 | 53 | 1:1 | 10 | 0.296 | 1.122 | 0.332 | - |
| 1 905.0 | 381000 | DFT-s OFDM QPSK | 20 | 19.5 | 18.91 | 0.14 | Front | 0 | 50 | 28 | 1:1 | 10 | 0.324 | 1.146 | 0.371 | - |
| 1 905.0 | 381000 | DFT-s OFDM QPSK | 20 | 19.5 | 19.00 | 0.06 | Left | 0 | 1 | 53 | 1:1 | 10 | 0.034 | 1.122 | 0.038 | - |
| 1 905.0 | 381000 | DFT-s OFDM QPSK | 20 | 19.5 | 18.91 | -0.02 | Left | 0 | 50 | 28 | 1:1 | 10 | 0.032 | 1.146 | 0.037 | - |
| 1 905.0 | 381000 | DFT-s OFDM QPSK | 20 | 19.5 | 19.00 | 0.13 | Right | 0 | 1 | 53 | 1:1 | 10 | 0.048 | 1.122 | 0.054 | - |
| 1 905.0 | 381000 | DFT-s OFDM QPSK | 20 | 19.5 | 18.91 | 0.06 | Right | 0 | 50 | 28 | 1:1 | 10 | 0.032 | 1.146 | 0.037 | - |
| 1 860.0 | 372000 | DFT-s OFDM QPSK | 20 | 19.5 | 18.75 | 0.11 | Bottom | 0 | 1 | 1 | 1:1 | 10 | 0.796 | 1.189 | 0.946 | 80 |
| 1 860.0 | 372000 | DFT-s OFDM QPSK | 20 | 19.5 | 18.77 | 0.09 | Bottom | 0 | 50 | 0 | 1:1 | 10 | 0.781 | 1.183 | 0.924 | - |
| 1 882.5 | 376500 | DFT-s OFDM QPSK | 20 | 19.5 | 18.70 | 0.01 | Bottom | 0 | 1 | 53 | 1:1 | 10 | 0.726 | 1.202 | 0.873 | - |
| 1 882.5 | 376500 | DFT-s OFDM QPSK | 20 | 19.5 | 18.68 | 0.11 | Bottom | 0 | 50 | 0 | 1:1 | 10 | 0.774 | 1.208 | 0.935 | - |
| 1 905.0 | 381000 | DFT-s OFDM QPSK | 20 | 19.5 | 19.00 | 0.02 | Bottom | 0 | 1 | 53 | 1:1 | 10 | 0.732 | 1.122 | 0.821 | - |
| 1 905.0 | 381000 | DFT-s OFDM QPSK | 20 | 19.5 | 18.91 | -0.07 | Bottom | 0 | 50 | 28 | 1:1 | 10 | 0.765 | 1.146 | 0.876 | - |
| 1 905.0 | 381000 | DFT-s OFDM QPSK | 20 | 19.5 | 18.94 | 0.07 | Bottom | 0 | 100 | 0 | 1:1 | 10 | 0.794 | 1.138 | 0.903 | - |
| 1 905.0 | 381000 | CP QPSK | 20 | 19.5 | 18.83 | 0.06 | Bottom | 0 | 1 | 1 | 1:1 | 10 | 0.741 | 1.167 | 0.865 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | | | | | |

NR Band n41 Hotspot SAR

| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
|-----------|--------|-----------------|------------|---------------|-------------|-------------|---------------|------|---------|-----------|------------|----------|-----------|----------------|--------------|----------|
| Mhz | Ch. | | (Mhz) | (dBm) | (dBm) | (dB) | | (dB) | (mm) | (W/kg) | | (W/kg) | | | | |
| 2 592.99 | 518598 | DFT-s OFDM QPSK | 100 | 22.0 | 21.38 | -0.15 | Rear | 0 | 1 | 1 | 1:4.0 | 10 | 0.128 | 1.153 | 0.148 | - |
| 2 592.99 | 518598 | DFT-s OFDM QPSK | 100 | 22.0 | 21.32 | -0.11 | Rear | 0 | 135 | 0 | 1:4.0 | 10 | 0.073 | 1.169 | 0.085 | - |
| 2 592.99 | 518598 | DFT-s OFDM QPSK | 100 | 22.0 | 21.38 | 0.17 | Front | 0 | 1 | 1 | 1:4.0 | 10 | 0.069 | 1.153 | 0.080 | - |
| 2 592.99 | 518598 | DFT-s OFDM QPSK | 100 | 22.0 | 21.32 | 0.15 | Front | 0 | 135 | 0 | 1:4.0 | 10 | 0.054 | 1.169 | 0.063 | - |
| 2 592.99 | 518598 | DFT-s OFDM QPSK | 100 | 22.0 | 21.38 | 0.11 | Left | 0 | 1 | 1 | 1:4.0 | 10 | 0.049 | 1.153 | 0.057 | - |
| 2 592.99 | 518598 | DFT-s OFDM QPSK | 100 | 22.0 | 21.32 | 0.07 | Left | 0 | 135 | 0 | 1:4.0 | 10 | 0.034 | 1.169 | 0.040 | - |
| 2 592.99 | 518598 | DFT-s OFDM QPSK | 100 | 22.0 | 21.38 | 0.01 | Bottom | 0 | 1 | 1 | 1:4.0 | 10 | 0.115 | 1.153 | 0.133 | - |
| 2 592.99 | 518598 | DFT-s OFDM QPSK | 100 | 22.0 | 21.32 | -0.06 | Bottom | 0 | 135 | 0 | 1:4.0 | 10 | 0.132 | 1.169 | 0.154 | 81 |
| 2 592.99 | 518598 | CP QPSK | 100 | 22.0 | 21.34 | -0.17 | Bottom | 0 | 1 | 1 | 1:4.0 | 10 | 0.113 | 1.164 | 0.132 | - |

ANSI/ IEEE C95.1 - 2005 – Safety Limit
Spatial Peak
Uncontrolled Exposure/ General Population

Body
1.6 W/kg
Averaged over 1 gram

NR Band n66 Hotspot SAR

| Frequency | | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
|-----------|--------|-----------------|------------|---------------|-------------|-------------|---------------|------|---------|-----------|------------|----------|-----------|----------------|--------------|----------|
| Mhz | Ch. | | (Mhz) | (dBm) | (dBm) | (dB) | | (dB) | (mm) | (W/kg) | | (W/kg) | | | | |
| 1 720 | 344000 | DFT-s OFDM QPSK | 20 | 20.0 | 19.11 | -0.17 | Rear | 0 | 1 | 1 | 1:1 | 10 | 0.427 | 1.227 | 0.524 | - |
| 1 745 | 349000 | DFT-s OFDM QPSK | 20 | 20.0 | 19.20 | 0.01 | Rear | 0 | 50 | 0 | 1:1 | 10 | 0.344 | 1.202 | 0.414 | - |
| 1 720 | 344000 | DFT-s OFDM QPSK | 20 | 20.0 | 19.11 | -0.05 | Front | 0 | 1 | 1 | 1:1 | 10 | 0.405 | 1.227 | 0.497 | - |
| 1 745 | 349000 | DFT-s OFDM QPSK | 20 | 20.0 | 19.20 | 0.12 | Front | 0 | 50 | 0 | 1:1 | 10 | 0.331 | 1.202 | 0.398 | - |
| 1 720 | 344000 | DFT-s OFDM QPSK | 20 | 20.0 | 19.11 | -0.01 | Left | 0 | 1 | 1 | 1:1 | 10 | 0.065 | 1.227 | 0.080 | - |
| 1 745 | 349000 | DFT-s OFDM QPSK | 20 | 20.0 | 19.20 | 0.13 | Left | 0 | 50 | 0 | 1:1 | 10 | 0.051 | 1.202 | 0.061 | - |
| 1 720 | 344000 | DFT-s OFDM QPSK | 20 | 20.0 | 19.11 | -0.02 | Right | 0 | 1 | 1 | 1:1 | 10 | 0.062 | 1.227 | 0.076 | - |
| 1 745 | 349000 | DFT-s OFDM QPSK | 20 | 20.0 | 19.20 | 0.14 | Right | 0 | 50 | 0 | 1:1 | 10 | 0.056 | 1.202 | 0.067 | - |
| 1 720 | 344000 | DFT-s OFDM QPSK | 20 | 20.0 | 19.11 | 0.02 | Bottom | 0 | 1 | 1 | 1:1 | 10 | 0.712 | 1.227 | 0.874 | 82 |
| 1 745 | 349000 | DFT-s OFDM QPSK | 20 | 20.0 | 19.20 | 0.11 | Bottom | 0 | 50 | 0 | 1:1 | 10 | 0.610 | 1.202 | 0.733 | - |
| 1 720 | 344000 | CP QPSK | 20 | 20.0 | 19.17 | 0.02 | Bottom | 0 | 1 | 1 | 1:1 | 10 | 0.707 | 1.211 | 0.856 | - |

ANSI/ IEEE C95.1 - 2005 – Safety Limit
Spatial Peak
Uncontrolled Exposure/ General Population

Body
1.6 W/kg
Averaged over 1 gram

| NR Band n71 Hotspot SAR | | | | | | | | | | | | | | | |
|---|--------|-----------------|------------|---------------|-------------|-------------|--|-----|---------|-----------|------------|-----------|----------------|--------------|----------|
| Frequency | | Modulation | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | |
| 680.5 | 136100 | DFT-s OFDM QPSK | 20 | 25.5 | 24.39 | -0.04 | Rear | 0 | 1 | 53 | 1:1 | 0.304 | 1.291 | 0.393 | - |
| 680.5 | 136100 | DFT-s OFDM QPSK | 20 | 25.5 | 24.28 | -0.01 | Rear | 0 | 50 | 28 | 1:1 | 0.306 | 1.324 | 0.405 | 83 |
| 680.5 | 136100 | DFT-s OFDM QPSK | 20 | 25.5 | 24.39 | -0.05 | Front | 0 | 1 | 53 | 1:1 | 0.260 | 1.291 | 0.336 | - |
| 680.5 | 136100 | DFT-s OFDM QPSK | 20 | 25.5 | 24.28 | -0.07 | Front | 0 | 50 | 28 | 1:1 | 0.263 | 1.324 | 0.348 | - |
| 680.5 | 136100 | DFT-s OFDM QPSK | 20 | 25.5 | 24.39 | 0.05 | Left | 0 | 1 | 53 | 1:1 | 0.145 | 1.291 | 0.187 | - |
| 680.5 | 136100 | DFT-s OFDM QPSK | 20 | 25.5 | 24.28 | -0.07 | Left | 0 | 50 | 28 | 1:1 | 0.135 | 1.324 | 0.179 | - |
| 680.5 | 136100 | DFT-s OFDM QPSK | 20 | 25.5 | 24.39 | -0.11 | Right | 0 | 1 | 53 | 1:1 | 0.233 | 1.291 | 0.301 | - |
| 680.5 | 136100 | DFT-s OFDM QPSK | 20 | 25.5 | 24.28 | 0.06 | Right | 0 | 50 | 28 | 1:1 | 0.246 | 1.324 | 0.326 | - |
| 680.5 | 136100 | DFT-s OFDM QPSK | 20 | 25.5 | 24.39 | 0.01 | Bottom | 0 | 1 | 53 | 1:1 | 0.222 | 1.291 | 0.287 | - |
| 680.5 | 136100 | DFT-s OFDM QPSK | 20 | 25.5 | 24.28 | 0.06 | Bottom | 0 | 50 | 28 | 1:1 | 0.220 | 1.324 | 0.291 | - |
| 680.5 | 136100 | CP QPSK | 20 | 24.0 | 22.84 | -0.04 | Rear | 1.5 | 1 | 1 | 1:1 | 0.216 | 1.306 | 0.282 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | | | | |

| DTS Hotspot SAR | | | | | | | | | | | | | | | | | |
|---|-----|---------|------------|-----------|---------------|-------------|-------------|---------------|-------------|------------|--|--------------------|-----------|----------------|-----------------------|--------------|----------|
| Frequency | | Mode | Band width | Data Rate | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Ant Config. | Duty Cycle | Distance (mm) | Area Scan Peak SAR | Meas. SAR | Scaling Factor | Scaling Factor (Duty) | Reported SAR | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | | | |
| 2 437 | 6 | 802.11b | 20 | 1 | 19.0 | 18.10 | 0.19 | Rear | Ant1 | 99.9 | 10 | 0.473 | 0.288 | 1.230 | 1.001 | 0.355 | - |
| 2 437 | 6 | 802.11b | 20 | 1 | 19.0 | 18.10 | 0.17 | Front | Ant1 | 99.9 | 10 | 0.46 | 0.272 | 1.230 | 1.001 | 0.335 | - |
| 2 437 | 6 | 802.11b | 20 | 1 | 19.0 | 18.10 | | Left | Ant1 | 99.9 | 10 | 0.161 | | | | | - |
| 2 437 | 6 | 802.11b | 20 | 1 | 19.0 | 18.10 | 0.09 | Top | Ant1 | 99.9 | 10 | 0.772 | 0.473 | 1.230 | 1.001 | 0.582 | - |
| 2 462 | 11 | 802.11b | 20 | 1 | 19.0 | 18.23 | 0.13 | Rear | Ant2 | 99.9 | 10 | 0.205 | 0.137 | 1.194 | 1.001 | 0.164 | - |
| 2 462 | 11 | 802.11b | 20 | 1 | 19.0 | 18.23 | -0.15 | Front | Ant2 | 99.9 | 10 | 0.322 | 0.186 | 1.194 | 1.001 | 0.222 | - |
| 2 462 | 11 | 802.11b | 20 | 1 | 19.0 | 18.23 | 0.01 | Left | Ant2 | 99.9 | 10 | 0.438 | 0.246 | 1.194 | 1.001 | 0.294 | - |
| 2 462 | 11 | 802.11b | 20 | 1 | 19.0 | 18.23 | | Top | Ant2 | 99.9 | 10 | 0.138 | | | | | - |
| 2 437 | 6 | 802.11b | 20 | 1 | 22.0 | 21.03 | 0.11 | Rear | MIMO | 99.9 | 10 | 0.812 | 0.455 | 1.230 | 1.001 | 0.560 | - |
| 2 437 | 6 | 802.11b | 20 | 1 | 22.0 | 21.03 | | Front | MIMO | 99.9 | 10 | 0.584 | | | | | - |
| 2 437 | 6 | 802.11b | 20 | 1 | 22.0 | 21.03 | | Left | MIMO | 99.9 | 10 | 0.481 | | | | | - |
| 2 437 | 6 | 802.11b | 20 | 1 | 22.0 | 21.03 | 0.05 | Top | MIMO | 99.9 | 10 | 0.885 | 0.544 | 1.230 | 1.001 | 0.670 | 84 |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | | |

| Wi-Fi (DTS) Hotspot SAR 1g –mmWave | | | | | | | | | | | | | | | | | |
|---|-----|---------|------------------|------------------|---------------------|-------------------|------------------|---------------|-------------|------------|---------------|--|------------------|----------------|-----------------------|---------------------|----------|
| Frequency | | Mode | Band width (MHz) | Data Rate (Mbps) | Tune-Up Limit (dBm) | Meas. Power (dBm) | Power Drift (dB) | Test Position | Ant Config. | Duty Cycle | Distance (mm) | Area Scan Peak SAR (W/kg) | Meas. SAR (W/kg) | Scaling Factor | Scaling Factor (Duty) | Reported SAR (W/kg) | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | | | |
| 2 437 | 6 | 802.11b | 20 | 1 | 13.0 | 12.86 | 0.05 | Rear | Ant1 | 99.9 | 10 | 0.161 | 0.094 | 1.033 | 1.001 | 0.097 | - |
| 2 437 | 6 | 802.11b | 20 | 1 | 13.0 | 12.86 | | Front | Ant1 | 99.9 | 10 | 0.116 | | | | | - |
| 2 437 | 6 | 802.11b | 20 | 1 | 13.0 | 12.86 | | Left | Ant1 | 99.9 | 10 | 0.0519 | | | | | - |
| 2 437 | 6 | 802.11b | 20 | 1 | 13.0 | 12.86 | 0.13 | Top | Ant1 | 99.9 | 10 | 0.235 | 0.143 | 1.033 | 1.001 | 0.148 | 85 |
| 2 412 | 1 | 802.11b | 20 | 1 | 13.0 | 12.19 | -0.11 | Rear | Ant2 | 99.9 | 10 | 0.0336 | 0.017 | 1.205 | 1.001 | 0.021 | - |
| 2 412 | 1 | 802.11b | 20 | 1 | 13.0 | 12.19 | | Front | Ant2 | 99.9 | 10 | 0.0322 | | | | | - |
| 2 412 | 1 | 802.11b | 20 | 1 | 13.0 | 12.19 | 0.01 | Left | Ant2 | 99.9 | 10 | 0.0871 | 0.037 | 1.205 | 1.001 | 0.045 | - |
| 2 412 | 1 | 802.11b | 20 | 1 | 13.0 | 12.19 | | Top | Ant2 | 99.9 | 10 | 0.0299 | | | | | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | |

| 5 GHz WLAN Hotspot SAR | | | | | | | | | | | | | | | | | |
|---|-----|---------|------------------|------------------|---------------------|-------------------|------------------|---------------|-------------|------------|---------------|--|------------------|----------------|-----------------------|---------------------|----------|
| Frequency | | Mode | Band width (MHz) | Data Rate (Mbps) | Tune-Up Limit (dBm) | Meas. Power (dBm) | Power Drift (dB) | Test Position | Ant Config. | Duty Cycle | Distance (mm) | Area Scan Peak SAR (W/kg) | Meas. SAR (W/kg) | Scaling Factor | Scaling Factor (Duty) | Reported SAR (W/kg) | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | | | |
| 5 785 | 157 | 802.11a | 20 | 6 | 17.0 | 15.76 | -0.07 | Rear | Ant1 | 99.0 | 10 | 0.61 | 0.266 | 1.330 | 1.010 | 0.357 | 86 |
| 5 785 | 157 | 802.11a | 20 | 6 | 17.0 | 15.76 | 0.01 | Front | Ant1 | 99.0 | 10 | 0.0843 | 0.029 | 1.330 | 1.010 | 0.039 | - |
| 5 785 | 157 | 802.11a | 20 | 6 | 17.0 | 15.76 | -0.12 | Left | Ant1 | 99.0 | 10 | 0.308 | 0.111 | 1.330 | 1.010 | 0.149 | - |
| 5 785 | 157 | 802.11a | 20 | 6 | 17.0 | 15.76 | | Top | Ant1 | 99.0 | 10 | 0.35 | | | | | - |
| 5 785 | 157 | 802.11a | 20 | 6 | 17.0 | 16.47 | 0.10 | Rear | Ant2 | 99.0 | 10 | 0.465 | 0.192 | 1.130 | 1.010 | 0.219 | - |
| 5 785 | 157 | 802.11a | 20 | 6 | 17.0 | 16.47 | -0.16 | Front | Ant2 | 99.0 | 10 | 0.124 | 0.051 | 1.130 | 1.010 | 0.058 | |
| 5 785 | 157 | 802.11a | 20 | 6 | 17.0 | 16.47 | -0.17 | Left | Ant2 | 99.0 | 10 | 0.389 | 0.165 | 1.130 | 1.010 | 0.188 | |
| 5 785 | 157 | 802.11a | 20 | 6 | 17.0 | 16.47 | 0.13 | Top | Ant2 | 99.0 | 10 | 0.163 | 0.067 | 1.130 | 1.010 | 0.076 | - |
| 5 785 | 157 | 802.11a | 20 | 6 | 20.0 | 19.14 | -0.09 | Rear | MIMO | 99.0 | 10 | 0.502 | 0.213 | 1.330 | 1.010 | 0.286 | |
| 5 785 | 157 | 802.11a | 20 | 6 | 20.0 | 19.14 | 0.01 | Front | MIMO | 99.0 | 10 | 0.156 | 0.060 | 1.330 | 1.010 | 0.081 | |
| 5 785 | 157 | 802.11a | 20 | 6 | 20.0 | 19.14 | 0.04 | Left | MIMO | 99.0 | 10 | 0.483 | 0.196 | 1.330 | 1.010 | 0.263 | |
| 5 785 | 157 | 802.11a | 20 | 6 | 20.0 | 19.14 | -0.10 | Top | MIMO | 99.0 | 10 | 0.279 | 0.116 | 1.330 | 1.010 | 0.156 | |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | |

| 5 GHz WLAN Hotspot SAR 1g –mmWave | | | | | | | | | | | | | | | | | |
|---|-----|----------|-----------------|------------------|---------------------|-------------------|------------------|---------------|-------------|------------|---------------|--|------------------|----------------|-----------------------|---------------------|----------|
| Frequency | | Mode | Bandwidth (MHz) | Data Rate (Mbps) | Tune-Up Limit (dBm) | Meas. Power (dBm) | Power Drift (dB) | Test Position | Ant Config. | Duty Cycle | Distance (mm) | Area Scan Peak SAR (W/kg) | Meas. SAR (W/kg) | Scaling Factor | Scaling Factor (Duty) | Reported SAR (W/kg) | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | | | |
| 5 775 | 155 | 802.11ac | 80 | MCS0 | 11.0 | 10.35 | 0.13 | Rear | Ant1 | 99.7 | 10 | 0.139 | 0.054 | 1.161 | 1.003 | 0.063 | - |
| 5 775 | 155 | 802.11ac | 80 | MCS0 | 11.0 | 10.35 | | Front | Ant1 | 99.7 | 10 | 0.0552 | | | | | - |
| 5 775 | 155 | 802.11ac | 80 | MCS0 | 11.0 | 10.35 | | Left | Ant1 | 99.7 | 10 | 0.0606 | | | | | - |
| 5 775 | 155 | 802.11ac | 80 | MCS0 | 11.0 | 10.35 | | Top | Ant1 | 99.7 | 10 | 0.0798 | | | | | - |
| 5 775 | 155 | 802.11ac | 80 | MCS0 | 11.0 | 10.50 | 0.01 | Rear | Ant2 | 99.7 | 10 | 0.13 | 0.048 | 1.122 | 1.003 | 0.054 | - |
| 5 775 | 155 | 802.11ac | 80 | MCS0 | 11.0 | 10.50 | | Front | Ant2 | 99.7 | 10 | 0.0618 | | | | | - |
| 5 775 | 155 | 802.11ac | 80 | MCS0 | 11.0 | 10.50 | -0.01 | Left | Ant2 | 99.7 | 10 | 0.0865 | 0.031 | 1.122 | 1.003 | 0.035 | - |
| 5 775 | 155 | 802.11ac | 80 | MCS0 | 11.0 | 10.50 | 0.07 | Top | Ant2 | 99.7 | 10 | 0.466 | 0.154 | 1.122 | 1.003 | 0.173 | 87 |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | |

| DSS Tethering SAR | | | | | | | | | | | | | |
|---|-----|---------------|---------------------|-------------------|------------------|---------------|--------------|--|------------------|----------------|-----------------------|-------------------|----------|
| Frequency | | Mode | Tune-Up Limit (dBm) | Meas. Power (dBm) | Power Drift (dB) | Test Position | Ant. Config. | Distance (mm) | Meas. SAR (W/kg) | Scaling Factor | Scaling Factor (Duty) | Scaled SAR (W/kg) | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | |
| 2 441 | 39 | Bluetooth DH5 | 17.0 | 16.96 | -0.16 | Rear | Ant1 | 10 | 0.132 | 1.009 | 1.302 | 0.173 | - |
| 2 441 | 39 | Bluetooth DH5 | 17.0 | 16.96 | 0.11 | Front | Ant1 | 10 | 0.127 | 1.009 | 1.302 | 0.167 | - |
| 2 441 | 39 | Bluetooth DH5 | 17.0 | 16.96 | 0.12 | Left | Ant1 | 10 | 0.044 | 1.009 | 1.302 | 0.058 | - |
| 2 441 | 39 | Bluetooth DH5 | 17.0 | 16.96 | 0.17 | Top | Ant1 | 10 | 0.217 | 1.009 | 1.302 | 0.285 | 88 |
| 2 441 | 39 | Bluetooth DH5 | 17.0 | 16.29 | -0.02 | Rear | Ant2 | 10 | 0.030 | 1.178 | 1.302 | 0.046 | - |
| 2 441 | 39 | Bluetooth DH5 | 17.0 | 16.29 | 0.19 | Front | Ant2 | 10 | 0.036 | 1.178 | 1.302 | 0.055 | - |
| 2 441 | 39 | Bluetooth DH5 | 17.0 | 16.29 | 0.14 | Left | Ant2 | 10 | 0.061 | 1.178 | 1.302 | 0.094 | - |
| 2 441 | 39 | Bluetooth DH5 | 17.0 | 16.29 | 0.15 | Top | Ant2 | 10 | 0.00977 | 1.178 | 1.302 | 0.015 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | Body 1.6 W/kg Averaged over 1 gram | | | | | |

13.4 Phablet SAR Measurement Considerations

Per FCC KDB 648474 D04v01r03, this device is considered a “Phablet” since the diagonal dimension is greater than 160 mm and less than 200 mm. Therefore, extremity SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR >1.2 W/kg. When hotspot mode applies, 10g SAR required only for the surfaces and edges with hotspot mode scaled to the maximum output power (including tolerance) is 1g SAR > 1.2 W/kg.

13.5 Phablet SAR Measurement Results (DSI=1)

| PCS CDMA Phablet SAR 10g | | | | | | | | | | | | | | |
|---|-----|----------|------------|---------------|-------------|-------------|---|--------|------------|----------|-----------|----------------|--------------|----------|
| Frequency | | Mode | | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Sensor | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz | Ch. | | | (dB) | (dB) | (dB) | | | | (mm) | (W/kg) | | (W/kg) | |
| 1 880 | 600 | PCS CDMA | EVDO Rev.0 | 25.3 | 23.67 | 0.15 | Rear | OFF | 1:1 | 8 | 0.734 | 1.455 | 1.068 | - |
| 1 880 | 600 | PCS CDMA | EVDO Rev.0 | 25.3 | 23.67 | 0.10 | Front | OFF | 1:1 | 7 | 0.849 | 1.455 | 1.236 | 89 |
| 1 880 | 600 | PCS CDMA | EVDO Rev.0 | 25.3 | 23.67 | 0.01 | Bottom | OFF | 1:1 | 13 | 0.798 | 1.455 | 1.161 | - |
| 1 880 | 600 | PCS CDMA | EVDO Rev.0 | 25.3 | 23.67 | -0.19 | Left | N/A | 1:1 | 0 | 0.243 | 1.455 | 0.354 | - |
| 1 880 | 600 | PCS CDMA | EVDO Rev.0 | 25.3 | 23.67 | -0.18 | Right | N/A | 1:1 | 0 | 0.247 | 1.455 | 0.359 | - |
| 1 880 | 600 | PCS CDMA | EVDO Rev.0 | 19.0 | 18.64 | 0.18 | Rear | ON | 1:1 | 0 | 0.677 | 1.086 | 0.736 | - |
| 1 880 | 600 | PCS CDMA | EVDO Rev.0 | 19.0 | 18.64 | 0.01 | Front | ON | 1:1 | 0 | 0.816 | 1.086 | 0.887 | - |
| 1 880 | 600 | PCS CDMA | EVDO Rev.0 | 19.0 | 18.64 | -0.14 | Bottom | ON | 1:1 | 0 | 0.805 | 1.086 | 0.875 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Hand 4.0 W/kg Averaged over 10 gram | | | | | | | |

| GSM 1900 Phablet SAR 10g | | | | | | | | | | | | | | |
|---|-----|----------|---------------|-------------|-------------|---------------|---|------------|----------|-----------|----------------|--------------|----------|--|
| Frequency | | Mode | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Sensor | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. | |
| Mhz | Ch. | | (dB) | (dB) | (dB) | | | | (mm) | (W/kg) | | (W/kg) | | |
| 1 880.0 | 661 | GPRS 3Tx | 28.0 | 26.68 | 0.04 | Rear | OFF | 1:2.77 | 8 | 0.423 | 1.355 | 0.573 | - | |
| 1 880.0 | 661 | GPRS 3Tx | 28.0 | 26.68 | 0.01 | Front | OFF | 1:2.77 | 7 | 0.623 | 1.355 | 0.844 | - | |
| 1 880.0 | 661 | GPRS 3Tx | 28.0 | 26.68 | -0.13 | Bottom | OFF | 1:2.77 | 13 | 0.452 | 1.355 | 0.613 | - | |
| 1 880.0 | 661 | GPRS 3Tx | 28.0 | 26.68 | -0.16 | Left | N/A | 1:2.77 | 0 | 0.154 | 1.355 | 0.209 | - | |
| 1 880.0 | 661 | GPRS 3Tx | 28.0 | 26.68 | 0.17 | Right | N/A | 1:2.77 | 0 | 0.168 | 1.355 | 0.228 | - | |
| 1 880.0 | 661 | GPRS 3Tx | 25.0 | 23.93 | -0.02 | Rear | ON | 1:2.77 | 0 | 0.804 | 1.279 | 1.029 | - | |
| 1 880.0 | 661 | GPRS 3Tx | 25.0 | 23.93 | 0.01 | Front | ON | 1:2.77 | 0 | 1.07 | 1.279 | 1.369 | 90 | |
| 1 880.0 | 661 | GPRS 3Tx | 25.0 | 23.93 | -0.09 | Bottom | ON | 1:2.77 | 0 | 0.973 | 1.279 | 1.245 | - | |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Hand 4.0 W/kg Averaged over 10 gram | | | | | | | |

| UMTS 1700 Phablet SAR 10g | | | | | | | | | | | | | |
|---|------|------|--------------------|------------------|------------------|---------------|---|------------|---------------|------------------|----------------|-------------------|----------|
| Frequency | | Mode | Tune-Up Limit (dB) | Meas. Power (dB) | Power Drift (dB) | Test Position | Sensor | Duty Cycle | Distance (mm) | Meas. SAR (W/kg) | Scaling Factor | Scaled SAR (W/kg) | Plot No. |
| MHz | Ch. | | | | | | | | | | | | |
| 1 732.4 | 1412 | RMC | 25.0 | 23.22 | 0.04 | Rear | OFF | 1:1 | 8 | 1.28 | 1.507 | 1.928 | 91 |
| 1 732.4 | 1412 | RMC | 25.0 | 23.22 | 0.12 | Front | OFF | 1:1 | 7 | 1.21 | 1.507 | 1.823 | - |
| 1 732.4 | 1412 | RMC | 25.0 | 23.22 | -0.03 | Bottom | OFF | 1:1 | 13 | 0.737 | 1.507 | 1.110 | - |
| 1 732.4 | 1412 | RMC | 25.0 | 23.22 | 0.17 | Left | N/A | 1:1 | 0 | 0.362 | 1.507 | 0.545 | - |
| 1 732.4 | 1412 | RMC | 25.0 | 23.22 | 0.10 | Right | N/A | 1:1 | 0 | 0.380 | 1.507 | 0.573 | - |
| 1 732.4 | 1412 | RMC | 19.5 | 18.26 | 0.12 | Rear | ON | 1:1 | 0 | 0.906 | 1.330 | 1.205 | - |
| 1 732.4 | 1412 | RMC | 19.5 | 18.26 | 0.17 | Front | ON | 1:1 | 0 | 1.01 | 1.330 | 1.344 | - |
| 1 732.4 | 1412 | RMC | 19.5 | 18.26 | 0.09 | Bottom | ON | 1:1 | 0 | 1.27 | 1.330 | 1.690 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Hand 4.0 W/kg Averaged over 10 gram | | | | | | |

| UMTS 1900 Phablet SAR 10g | | | | | | | | | | | | | |
|---|------|------|--------------------|------------------|------------------|---------------|---|------------|---------------|------------------|----------------|-------------------|----------|
| Frequency | | Mode | Tune-Up Limit (dB) | Meas. Power (dB) | Power Drift (dB) | Test Position | Sensor | Duty Cycle | Distance (mm) | Meas. SAR (W/kg) | Scaling Factor | Scaled SAR (W/kg) | Plot No. |
| MHz | Ch. | | | | | | | | | | | | |
| 1 880.0 | 9400 | RMC | 25.0 | 23.45 | -0.13 | Rear | OFF | 1:1 | 8 | 0.709 | 1.429 | 1.013 | - |
| 1 880.0 | 9400 | RMC | 25.0 | 23.45 | 0.01 | Front | OFF | 1:1 | 7 | 0.905 | 1.429 | 1.293 | - |
| 1 880.0 | 9400 | RMC | 25.0 | 23.45 | 0.09 | Bottom | OFF | 1:1 | 13 | 0.848 | 1.429 | 1.212 | - |
| 1 880.0 | 9400 | RMC | 25.0 | 23.45 | -0.16 | Left | N/A | 1:1 | 0 | 0.094 | 1.429 | 0.134 | - |
| 1 880.0 | 9400 | RMC | 25.0 | 23.45 | 0.19 | Right | N/A | 1:1 | 0 | 0.273 | 1.429 | 0.390 | - |
| 1 880.0 | 9400 | RMC | 19.0 | 18.48 | -0.16 | Rear | ON | 1:1 | 0 | 0.793 | 1.127 | 0.894 | - |
| 1 880.0 | 9400 | RMC | 19.0 | 18.48 | -0.15 | Front | ON | 1:1 | 0 | 0.816 | 1.127 | 0.920 | - |
| 1 880.0 | 9400 | RMC | 19.0 | 18.48 | 0.01 | Bottom | ON | 1:1 | 0 | 0.915 | 1.127 | 1.031 | 92 |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | Hand 4.0 W/kg Averaged over 10 gram | | | | | | |

| LTE Band 25 Phablet SAR 10g | | | | | | | | | | | | | | | | | |
|---|-------|------|------------|--------------------|------------------|------------------|---------------|--------|---|---------|-----------|------------|---------------|------------------|----------------|-------------------|----------|
| Frequency | | Mode | Band Width | Tune-Up Limit (dB) | Meas. Power (dB) | Power Drift (dB) | Test Position | Sensor | MPR (dB) | RB Size | RB Offset | Duty Cycle | Distance (mm) | Meas. SAR (W/kg) | Scaling Factor | Scaled SAR (W/kg) | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | | | |
| 1 905.0 | 26590 | QPSK | 20 | 25.0 | 23.89 | 0.16 | Rear | OFF | 0 | 1 | 99 | 1:1 | 8 | 1.05 | 1.291 | 1.356 | - |
| 1 905.0 | 26590 | QPSK | 20 | 24.0 | 22.99 | 0.08 | Rear | OFF | 1 | 50 | 49 | 1:1 | 8 | 0.846 | 1.262 | 1.068 | - |
| 1 905.0 | 26590 | QPSK | 20 | 25.0 | 23.89 | 0.11 | Front | OFF | 0 | 1 | 99 | 1:1 | 7 | 1.17 | 1.291 | 1.511 | 93 |
| 1 905.0 | 26590 | QPSK | 20 | 24.0 | 22.99 | -0.01 | Front | OFF | 1 | 50 | 49 | 1:1 | 7 | 0.946 | 1.262 | 1.194 | - |
| 1 905.0 | 26590 | QPSK | 20 | 25.0 | 23.89 | -0.11 | Bottom | OFF | 0 | 1 | 99 | 1:1 | 13 | 0.955 | 1.291 | 1.233 | - |
| 1 905.0 | 26590 | QPSK | 20 | 24.0 | 22.99 | -0.08 | Bottom | OFF | 1 | 50 | 49 | 1:1 | 13 | 0.759 | 1.262 | 0.958 | - |
| 1 905.0 | 26590 | QPSK | 20 | 25.0 | 23.89 | -0.17 | Left | N/A | 0 | 1 | 99 | 1:1 | 0 | 0.208 | 1.291 | 0.269 | - |
| 1 905.0 | 26590 | QPSK | 20 | 24.0 | 22.99 | -0.10 | Left | N/A | 1 | 50 | 49 | 1:1 | 0 | 0.169 | 1.262 | 0.213 | - |
| 1 905.0 | 26590 | QPSK | 20 | 25.0 | 23.89 | 0.03 | Right | N/A | 0 | 1 | 99 | 1:1 | 0 | 0.352 | 1.291 | 0.455 | - |
| 1 905.0 | 26590 | QPSK | 20 | 24.0 | 22.99 | 0.15 | Right | N/A | 1 | 50 | 49 | 1:1 | 0 | 0.278 | 1.262 | 0.351 | - |
| 1 905.0 | 26590 | QPSK | 20 | 19.0 | 17.94 | 0.19 | Rear | ON | 0 | 1 | 99 | 1:1 | 0 | 0.732 | 1.276 | 0.934 | - |
| 1 905.0 | 26590 | QPSK | 20 | 19.0 | 18.00 | 0.18 | Rear | ON | 0 | 50 | 49 | 1:1 | 0 | 0.758 | 1.259 | 0.954 | - |
| 1 905.0 | 26590 | QPSK | 20 | 19.0 | 17.94 | 0.01 | Front | ON | 0 | 1 | 99 | 1:1 | 0 | 0.833 | 1.276 | 1.063 | - |
| 1 905.0 | 26590 | QPSK | 20 | 19.0 | 18.00 | 0.01 | Front | ON | 0 | 50 | 49 | 1:1 | 0 | 0.860 | 1.259 | 1.083 | - |
| 1 905.0 | 26590 | QPSK | 20 | 19.0 | 17.94 | -0.18 | Bottom | ON | 0 | 1 | 99 | 1:1 | 0 | 0.619 | 1.276 | 0.790 | - |
| 1 905.0 | 26590 | QPSK | 20 | 19.0 | 18.00 | -0.11 | Bottom | ON | 0 | 50 | 49 | 1:1 | 0 | 0.643 | 1.259 | 0.809 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | | Hand 4.0 W/kg Averaged over 10 gram | | | | | | | | |

| LTE Band 66 Phablet SAR 10g | | | | | | | | | | | | | | | | | |
|---|--------|------|------------|--------------------|------------------|------------------|---------------|--------|---|---------|-----------|------------|---------------|------------------|----------------|-------------------|----------|
| Frequency | | Mode | Band Width | Tune-Up Limit (dB) | Meas. Power (dB) | Power Drift (dB) | Test Position | Sensor | MPR (dB) | RB Size | RB Offset | Duty Cycle | Distance (mm) | Meas. SAR (W/kg) | Scaling Factor | Scaled SAR (W/kg) | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | | | |
| 1 770 | 132575 | QPSK | 20 | 25.0 | 24.24 | 0.14 | Rear | OFF | 0 | 1 | 0 | 1:1 | 8 | 1.24 | 1.191 | 1.477 | - |
| 1 770 | 132575 | QPSK | 20 | 24.0 | 23.39 | 0.11 | Rear | OFF | 1 | 50 | 25 | 1:1 | 8 | 1.03 | 1.151 | 1.185 | - |
| 1 770 | 132575 | QPSK | 20 | 25.0 | 24.24 | 0.13 | Front | OFF | 0 | 1 | 0 | 1:1 | 7 | 1.38 | 1.191 | 1.644 | 94 |
| 1 770 | 132575 | QPSK | 20 | 24.0 | 23.39 | 0.15 | Front | OFF | 1 | 50 | 25 | 1:1 | 7 | 1.20 | 1.151 | 1.381 | - |
| 1 770 | 132575 | QPSK | 20 | 25.0 | 24.24 | -0.11 | Bottom | OFF | 0 | 1 | 0 | 1:1 | 13 | 0.964 | 1.191 | 1.148 | - |
| 1 770 | 132575 | QPSK | 20 | 24.0 | 23.39 | -0.12 | Bottom | OFF | 1 | 50 | 25 | 1:1 | 13 | 0.815 | 1.151 | 0.938 | - |
| 1 770 | 132575 | QPSK | 20 | 25.0 | 24.24 | -0.12 | Left | N/A | 0 | 1 | 0 | 1:1 | 0 | 0.414 | 1.191 | 0.493 | - |
| 1 770 | 132575 | QPSK | 20 | 24.0 | 23.39 | -0.14 | Left | N/A | 1 | 50 | 25 | 1:1 | 0 | 0.343 | 1.151 | 0.395 | - |
| 1 770 | 132575 | QPSK | 20 | 25.0 | 24.24 | -0.11 | Right | N/A | 0 | 1 | 0 | 1:1 | 0 | 0.392 | 1.191 | 0.467 | - |
| 1 770 | 132575 | QPSK | 20 | 24.0 | 23.39 | 0.14 | Right | N/A | 1 | 50 | 25 | 1:1 | 0 | 0.315 | 1.151 | 0.363 | - |
| 1 770 | 132575 | QPSK | 20 | 19.0 | 18.30 | 0.13 | Rear | ON | 0 | 1 | 49 | 1:1 | 0 | 0.881 | 1.175 | 1.035 | - |
| 1 770 | 132575 | QPSK | 20 | 19.0 | 18.39 | 0.12 | Rear | ON | 0 | 50 | 25 | 1:1 | 0 | 0.923 | 1.151 | 1.062 | - |
| 1 770 | 132575 | QPSK | 20 | 19.0 | 18.30 | 0.01 | Front | ON | 0 | 1 | 49 | 1:1 | 0 | 1.04 | 1.175 | 1.222 | - |
| 1 770 | 132575 | QPSK | 20 | 19.0 | 18.39 | 0.01 | Front | ON | 0 | 50 | 25 | 1:1 | 0 | 1.10 | 1.151 | 1.266 | - |
| 1 770 | 132575 | QPSK | 20 | 19.0 | 18.30 | -0.17 | Bottom | ON | 0 | 1 | 49 | 1:1 | 0 | 1.20 | 1.175 | 1.410 | - |
| 1 770 | 132575 | QPSK | 20 | 19.0 | 18.39 | -0.11 | Bottom | ON | 0 | 50 | 25 | 1:1 | 0 | 1.16 | 1.151 | 1.335 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | | Hand 4.0 W/kg Averaged over 10 gram | | | | | | | | |

NR Band n25 Phablet SAR 10g

| Frequency | | Mode | Band Width | Tune-Up Limit (dB) | Meas. Power (dB) | Power Drift (dB) | Test Position | Sensor | MPR (dB) | RB Size | RB Offset | Duty Cycle | Distance (mm) | Meas. SAR (W/kg) | Scaling Factor | Scaled SAR (W/kg) | Plot No. |
|---|--------|-----------------|------------|--------------------|------------------|------------------|---------------|---|----------|---------|-----------|------------|---------------|------------------|----------------|-------------------|----------|
| MHz | Ch. | | | | | | | | | | | | | | | | |
| 1 905 | 381000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.16 | -0.01 | Rear | OFF | 0 | 1 | 53 | 1:1 | 8 | 1.03 | 1.361 | 1.402 | - |
| 1 905 | 381000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.16 | 0.13 | Rear | OFF | 0 | 50 | 28 | 1:1 | 8 | 1.02 | 1.361 | 1.389 | - |
| 1 905 | 381000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.16 | 0.16 | Front | OFF | 0 | 1 | 53 | 1:1 | 7 | 1.25 | 1.361 | 1.702 | - |
| 1 905 | 381000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.16 | 0.01 | Front | OFF | 0 | 50 | 53 | 1:1 | 7 | 1.27 | 1.361 | 1.729 | 95 |
| 1 905 | 381000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.16 | -0.05 | Bottom | OFF | 0 | 1 | 53 | 1:1 | 13 | 1.10 | 1.361 | 1.498 | - |
| 1 905 | 381000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.16 | 0.18 | Bottom | OFF | 0 | 50 | 28 | 1:1 | 13 | 1.06 | 1.361 | 1.443 | - |
| 1 905 | 381000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.16 | -0.19 | Left | N/A | 0 | 1 | 53 | 1:1 | 0 | 0.314 | 1.361 | 0.427 | - |
| 1 905 | 381000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.16 | -0.19 | Left | N/A | 0 | 50 | 28 | 1:1 | 0 | 0.271 | 1.361 | 0.369 | - |
| 1 905 | 381000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.16 | -0.12 | Right | N/A | 0 | 1 | 53 | 1:1 | 0 | 0.360 | 1.361 | 0.490 | - |
| 1 905 | 381000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.16 | 0.06 | Right | N/A | 0 | 50 | 28 | 1:1 | 0 | 0.393 | 1.361 | 0.535 | - |
| 1 905 | 381000 | DFT-s OFDM QPSK | 20 | 20.5 | 18.99 | 0.13 | Rear | ON | 0 | 1 | 53 | 1:1 | 0 | 0.839 | 1.416 | 1.188 | - |
| 1 905 | 381000 | DFT-s OFDM QPSK | 20 | 20.5 | 19.04 | 0.05 | Rear | ON | 0 | 50 | 0 | 1:1 | 0 | 0.834 | 1.400 | 1.167 | - |
| 1 905 | 381000 | DFT-s OFDM QPSK | 20 | 20.5 | 18.99 | 0.11 | Front | ON | 0 | 1 | 53 | 1:1 | 0 | 0.926 | 1.416 | 1.311 | - |
| 1 905 | 381000 | DFT-s OFDM QPSK | 20 | 20.5 | 19.04 | 0.19 | Front | ON | 0 | 50 | 0 | 1:1 | 0 | 0.882 | 1.400 | 1.234 | - |
| 1 905 | 381000 | DFT-s OFDM QPSK | 20 | 20.5 | 18.99 | 0.06 | Bottom | ON | 0 | 1 | 53 | 1:1 | 0 | 1.16 | 1.416 | 1.642 | - |
| 1 905 | 381000 | DFT-s OFDM QPSK | 20 | 20.5 | 19.04 | 0.01 | Bottom | ON | 0 | 50 | 0 | 1:1 | 0 | 1.16 | 1.400 | 1.624 | - |
| 1 860 | 372000 | CP QPSK | 20 | 24 | 22.67 | 0.11 | Front | OFF | 0 | 1 | 1 | 1:1 | 7 | 0.625 | 1.358 | 0.849 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | Hand 4.0 W/kg Averaged over 10 gram | | | | | | | | | |

NR Band n66 (PCS) Phablet SAR 10g

| Frequency | | Mode | Band Width | Tune-Up Limit (dB) | Meas. Power (dB) | Power Drift (dB) | Test Position | Sensor | MPR (dB) | RB Size | RB Offset | Duty Cycle | Distance (mm) | Meas. SAR (W/kg) | Scaling Factor | Scaled SAR (W/kg) | Plot No. |
|---|--------|-----------------|------------|--------------------|------------------|------------------|---------------|---|----------|---------|-----------|------------|---------------|------------------|----------------|-------------------|----------|
| MHz | Ch. | | | | | | | | | | | | | | | | |
| 1 770 | 354000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.44 | -0.09 | Rear | OFF | 0 | 1 | 104 | 1:1 | 8 | 0.747 | 1.276 | 0.953 | - |
| 1 770 | 354000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.51 | -0.09 | Rear | OFF | 0 | 50 | 28 | 1:1 | 8 | 0.737 | 1.256 | 0.926 | - |
| 1 770 | 354000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.44 | 0.11 | Front | OFF | 0 | 1 | 104 | 1:1 | 7 | 0.820 | 1.276 | 1.047 | - |
| 1 770 | 354000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.51 | 0.10 | Front | OFF | 0 | 50 | 28 | 1:1 | 7 | 0.940 | 1.256 | 1.181 | - |
| 1 770 | 354000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.44 | 0.02 | Bottom | OFF | 0 | 1 | 104 | 1:1 | 13 | 0.706 | 1.276 | 0.901 | - |
| 1 770 | 354000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.51 | -0.09 | Bottom | OFF | 0 | 50 | 28 | 1:1 | 13 | 0.619 | 1.256 | 0.777 | - |
| 1 770 | 354000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.44 | 0.13 | Left | N/A | 0 | 1 | 104 | 1:1 | 0 | 0.278 | 1.276 | 0.355 | - |
| 1 770 | 354000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.51 | 0.15 | Left | N/A | 0 | 50 | 28 | 1:1 | 0 | 0.270 | 1.256 | 0.339 | - |
| 1 770 | 354000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.44 | 0.18 | Right | N/A | 0 | 1 | 104 | 1:1 | 0 | 0.327 | 1.276 | 0.417 | - |
| 1 770 | 354000 | DFT-s OFDM QPSK | 20 | 25.5 | 24.51 | -0.06 | Right | N/A | 0 | 50 | 28 | 1:1 | 0 | 0.208 | 1.256 | 0.261 | - |
| 1 745 | 349000 | DFT-s OFDM QPSK | 20 | 20.0 | 19.07 | 0.04 | Rear | ON | 0 | 1 | 1 | 1:1 | 0 | 0.921 | 1.239 | 1.141 | - |
| 1 745 | 349000 | DFT-s OFDM QPSK | 20 | 20.0 | 19.24 | 0.06 | Rear | ON | 0 | 50 | 0 | 1:1 | 0 | 0.866 | 1.191 | 1.032 | - |
| 1 745 | 349000 | DFT-s OFDM QPSK | 20 | 20.0 | 19.07 | 0.01 | Front | ON | 0 | 1 | 1 | 1:1 | 0 | 0.965 | 1.239 | 1.195 | - |
| 1 745 | 349000 | DFT-s OFDM QPSK | 20 | 20.0 | 19.24 | 0.01 | Front | ON | 0 | 50 | 0 | 1:1 | 0 | 0.959 | 1.191 | 1.142 | - |
| 1 745 | 349000 | DFT-s OFDM QPSK | 20 | 20.0 | 19.07 | 0.14 | Bottom | ON | 0 | 1 | 1 | 1:1 | 0 | 1.17 | 1.239 | 1.449 | - |
| 1 745 | 349000 | DFT-s OFDM QPSK | 20 | 20.0 | 19.24 | -0.06 | Bottom | ON | 0 | 50 | 0 | 1:1 | 0 | 1.11 | 1.191 | 1.322 | - |
| 1 720 | 344000 | CP QPSK | 20 | 20.0 | 19.19 | 0.17 | Bottom | ON | 0 | 1 | 1 | 1:1 | 0 | 1.25 | 1.205 | 1.506 | 96 |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | Hand 4.0 W/kg Averaged over 10 gram | | | | | | | | | |

| 5 GHz WLAN Phablet SAR 10g | | | | | | | | | | | | | | | | | |
|---|-----|---------|------------------|------------------|---------------------|-------------------|------------------|---------------|--------------|------------|---------------|---|------------------|----------------|-----------------------|-------------------|----------|
| Frequency | | Mode | Band width (MHz) | Data Rate (Mbps) | Tune-Up Limit (dBm) | Meas. Power (dBm) | Power Drift (dB) | Test Position | Ant. Config. | Duty Cycle | Distance (mm) | Area Scan Peak SAR (W/kg) | Meas. SAR (W/kg) | Scaling Factor | Scaling Factor (Duty) | Scaled SAR (W/kg) | Plot No. |
| Mhz | Ch. | | | | | | | | | | | | | | | | |
| 5 300 | 60 | 802.11a | 20 | 6 | 17.0 | 15.99 | -0.13 | Rear | Ant1 | 99.0 | 0 | 8.68 | 0.979 | 1.262 | 1.010 | 1.248 | |
| 5 300 | 60 | 802.11a | 20 | 6 | 17.0 | 15.99 | 0.01 | Front | Ant1 | 99.0 | 0 | 0.688 | 0.108 | 1.262 | 1.010 | 0.138 | - |
| 5 300 | 60 | 802.11a | 20 | 6 | 17.0 | 15.99 | -0.14 | Left | Ant1 | 99.0 | 0 | 6.38 | 0.539 | 1.262 | 1.010 | 0.687 | - |
| 5 300 | 60 | 802.11a | 20 | 6 | 17.0 | 15.99 | | Top | Ant1 | 99.0 | 0 | 1.34 | | | | | - |
| 5 550 | 100 | 802.11n | 20 | MCS0 | 17.0 | 15.60 | -0.14 | Rear | Ant1 | 99.7 | 0 | 5.78 | 0.678 | 1.380 | 1.003 | 0.939 | |
| 5 550 | 100 | 802.11n | 20 | MCS0 | 17.0 | 15.60 | 0.01 | Front | Ant1 | 99.7 | 0 | 0.611 | 0.060 | 1.380 | 1.003 | 0.083 | - |
| 5 550 | 100 | 802.11n | 20 | MCS0 | 17.0 | 15.60 | 0.13 | Left | Ant1 | 99.7 | 0 | 3.92 | 0.256 | 1.380 | 1.003 | 0.354 | - |
| 5 550 | 100 | 802.11n | 20 | MCS0 | 17.0 | 15.60 | | Top | Ant1 | 99.7 | 0 | 0.67 | | | | | - |
| 5 300 | 60 | 802.11a | 20 | 6 | 17.0 | 16.28 | -0.01 | Rear | Ant2 | 99.0 | 0 | 7.72 | 0.724 | 1.180 | 1.010 | 0.863 | |
| 5 300 | 60 | 802.11a | 20 | 6 | 17.0 | 16.28 | 0.11 | Front | Ant2 | 99.0 | 0 | 6.58 | 0.685 | 1.180 | 1.010 | 0.817 | - |
| 5 300 | 60 | 802.11a | 20 | 6 | 17.0 | 16.28 | -0.19 | Left | Ant2 | 99.0 | 0 | 20.4 | 1.36 | 1.180 | 1.010 | 1.621 | - |
| 5 300 | 60 | 802.11a | 20 | 6 | 17.0 | 16.28 | | Top | Ant2 | 99.0 | 0 | 1.30 | | | | | - |
| 5 550 | 100 | 802.11n | 20 | MCS0 | 17.0 | 16.22 | -0.19 | Rear | Ant2 | 99.7 | 0 | 6.66 | 0.648 | 1.197 | 1.003 | 0.778 | - |
| 5 550 | 100 | 802.11n | 20 | MCS0 | 17.0 | 16.22 | 0.01 | Front | Ant2 | 99.7 | 0 | 5.75 | 0.499 | 1.197 | 1.003 | 0.599 | - |
| 5 550 | 100 | 802.11n | 20 | MCS0 | 17.0 | 16.22 | 0.18 | Left | Ant2 | 99.7 | 0 | 14.2 | 0.817 | 1.197 | 1.003 | 0.981 | - |
| 5 550 | 100 | 802.11n | 20 | MCS0 | 17.0 | 16.22 | 0.14 | Top | Ant2 | 99.7 | 0 | 1.92 | 0.156 | 1.197 | 1.003 | 0.187 | - |
| 5 300 | 60 | 802.11a | 20 | 6 | 20.0 | 19.15 | 0.10 | Rear | MIMO | 99.0 | 0 | 16.9 | 1.4 | 1.262 | 1.010 | 1.785 | - |
| 5 300 | 60 | 802.11a | 20 | 6 | 20.0 | 19.15 | 0.09 | Front | MIMO | 99.0 | 0 | 4.19 | 0.583 | 1.262 | 1.010 | 0.743 | - |
| 5 300 | 60 | 802.11a | 20 | 6 | 20.0 | 19.15 | -0.14 | Left | MIMO | 99.0 | 0 | 13.8 | 1.42 | 1.262 | 1.010 | 1.810 | 97 |
| 5 300 | 60 | 802.11a | 20 | 6 | 20.0 | 19.15 | 0.16 | Top | MIMO | 99.0 | 0 | 2.67 | 0.292 | 1.262 | 1.010 | 0.372 | - |
| 5 550 | 100 | 802.11n | 20 | MCS0 | 20.0 | 18.93 | -0.19 | Rear | MIMO | 99.7 | 0 | 10.6 | 1.19 | 1.380 | 1.003 | 1.647 | - |
| 5 550 | 100 | 802.11n | 20 | MCS0 | 20.0 | 18.93 | 0.01 | Front | MIMO | 99.7 | 0 | 4.22 | 0.540 | 1.380 | 1.003 | 0.747 | - |
| 5 550 | 100 | 802.11n | 20 | MCS0 | 20.0 | 18.93 | -0.04 | Left | MIMO | 99.7 | 0 | 17.9 | 1.13 | 1.380 | 1.003 | 1.564 | - |
| 5 550 | 100 | 802.11n | 20 | MCS0 | 20.0 | 18.93 | | Top | MIMO | 99.7 | 0 | 2.57 | | | | | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | | | | | Hand 4.0 W/kg Averaged over 10 gram | | | | | |

| 5 GHz WLAN Phablet SAR 10g –mmWave | | | | | | | | | | | | | | | | | |
|---|-----|----------|------------------|------------------|---------------------|-------------------|------------------|---------------|--------------|------------|---------------|---|------------------|----------------|-----------------------|-------------------|----------|
| Frequency | | Mode | Band width (MHz) | Data Rate (Mbps) | Tune-Up Limit (dBm) | Meas. Power (dBm) | Power Drift (dB) | Test Position | Ant. Config. | Duty Cycle | Distance (mm) | Area Scan Peak SAR (W/kg) | Meas. SAR (W/kg) | Scaling Factor | Scaling Factor (Duty) | Scaled SAR (W/kg) | Plot No. |
| MHz | Ch. | | | | | | | | | | | | | | | | |
| 5 290 | 58 | 802.11ac | 80 | MCS0 | 11.0 | 10.49 | -0.09 | Rear | Ant1 | 99.7 | 0 | 4.02 | 0.401 | 1.125 | 1.003 | 0.452 | 98 |
| 5 290 | 58 | 802.11ac | 80 | MCS0 | 11.0 | 10.49 | | Front | Ant1 | 99.7 | 0 | 0.311 | | | | | - |
| 5 290 | 58 | 802.11ac | 80 | MCS0 | 11.0 | 10.49 | -0.15 | Left | Ant1 | 99.7 | 0 | 2.05 | 0.195 | 1.125 | 1.003 | 0.220 | - |
| 5 290 | 58 | 802.11ac | 80 | MCS0 | 11.0 | 10.49 | 0.01 | Top | Ant1 | 99.7 | 0 | 0.472 | 0.055 | 1.125 | 1.003 | 0.062 | - |
| 5 530 | 106 | 802.11ac | 80 | MCS0 | 11.0 | 10.72 | 0.01 | Rear | Ant1 | 99.7 | 0 | 3.58 | 0.278 | 1.067 | 1.003 | 0.297 | |
| 5 530 | 106 | 802.11ac | 80 | MCS0 | 11.0 | 10.72 | | Front | Ant1 | 99.7 | 0 | 0.139 | | | | | - |
| 5 530 | 106 | 802.11ac | 80 | MCS0 | 11.0 | 10.72 | 0.01 | Left | Ant1 | 99.7 | 0 | 1.55 | 0.111 | 1.067 | 1.003 | 0.119 | - |
| 5 530 | 106 | 802.11ac | 80 | MCS0 | 11.0 | 10.72 | 0.01 | Top | Ant1 | 99.7 | 0 | 0.311 | 0.024 | 1.067 | 1.003 | 0.026 | - |
| 5 290 | 58 | 802.11ac | 80 | MCS0 | 11.0 | 9.14 | 0.01 | Rear | Ant2 | 99.7 | 0 | 2.23 | 0.178 | 1.535 | 1.003 | 0.274 | - |
| 5 290 | 58 | 802.11ac | 80 | MCS0 | 11.0 | 9.14 | | Front | Ant2 | 99.7 | 0 | 0.66 | | | | | - |
| 5 290 | 58 | 802.11ac | 80 | MCS0 | 11.0 | 9.14 | -0.08 | Left | Ant2 | 99.7 | 0 | 3.74 | 0.324 | 1.535 | 1.003 | 0.499 | - |
| 5 290 | 58 | 802.11ac | 80 | MCS0 | 11.0 | 9.14 | -0.09 | Top | Ant2 | 99.7 | 0 | 0.54 | 0.037 | 1.535 | 1.003 | 0.057 | - |
| 5 530 | 106 | 802.11ac | 80 | MCS0 | 11.0 | 10.81 | 0.01 | Rear | Ant2 | 99.7 | 0 | 2.56 | 0.272 | 1.045 | 1.003 | 0.285 | - |
| 5 530 | 106 | 802.11ac | 80 | MCS0 | 11.0 | 10.81 | | Front | Ant2 | 99.7 | 0 | 1.33 | | | | | - |
| 5 530 | 106 | 802.11ac | 80 | MCS0 | 11.0 | 10.81 | -0.15 | Left | Ant2 | 99.7 | 0 | 4.08 | 0.285 | 1.045 | 1.003 | 0.299 | - |
| 5 530 | 106 | 802.11ac | 80 | MCS0 | 11.0 | 10.81 | -0.07 | Top | Ant2 | 99.7 | 0 | 0.553 | 0.037 | 1.045 | 1.003 | 0.039 | - |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population | | | | | | | | | | | | Hand 4.0 W/kg Averaged over 10 gram | | | | | |

13.6 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, FCC KDB Procedure.
2. Batteries are fully charged at the beginning of the SAR measurements. A standard battery was used for all SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB 447498 D01v06.
6. Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 15 mm was considered because the manufacturer has determined that there will be body-worn accessories available in the marketplace for users to support this separation distance.
7. Per FCC KDB 648474 D04v01r03, SAR was evaluated without a headset connected to the device. Since the standalone reported SAR was ≤ 1.2 W/kg, no additional SAR evaluation using a headset cable were required.
8. Per KDB 648474 D04v01r03, this device is considered a "Phablet" since the diagonal dimension is > 160 mm and < 200 mm. When hotspot mode applies, extremity SAR is required only for the surfaces and edges with hotspot mode scaled to the maximum output power (with tolerance) is 1 g SAR > 1.2 W/kg.
9. Per FCC KDB 865664 D01v01r04, variability SAR measurement were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg for 1g SAR and >2 for 10g SAR Please see Section 15 for variability analysis.
10. This device utilizes power reduction for some wireless mode and technologies, as outlined in sec. 4 The maximum output power allowed for each transmitter and exposure condition was evaluated for SAR compliance based on expected use conditions and simultaneous scenarios.
11. During SAR testing for the Hotspot conditions per KDB 941225 D06v02r01, the actual portable hotspot2operation (with actual simultaneous transmission of a transmitter with WiFi) was not activated.
12. This device uses Qualcomm Smart Transmit for 2G/3G/4G/5G operations to control and manage transmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance for was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition (DSI).

CDMA Notes:

1. Head SAR for CDMA2000 mode was tested under RC3/SO55 per FCC KDB Publication 941225 D01v03r01.
2. Body-Worn SAR was tested with 1x RTT with TDSO / SO32 FCH Only. EVDO Rev0 and RevA and TDSO / SO32 FCH+SCH SAR tests were not required per the 3G SAR Test Reduction Procedure in FCC KDB Publication 941225 D01v03r01.
3. CDMA Wireless Router SAR is measured using Subtype 0/1 Physical Layer configurations for Rev. 0 according to KDB 941225 D01v03r01 procedures for data devices. Wireless Router SAR tests for Subtype 2 of Rev.A and 1x RTT configurations were not required per the 3G SAR Test Reduction Policy in KDB Publication 941225 D01v03r01.
4. Head SAR was additionally evaluated using EVDO Rev. A to determine compliance for VoIP operations.
5. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel was used.

GSM/GPRS Test Notes:

1. This EUT'S GSM and GPRS device class is B.
2. This device supports GPRS VOIP in the head and the body-worn configurations therefore GPRS was additionally evaluated for head and body-worn compliance.
3. Body-Worn accessory testing is typically associated with voice operations. Therefore, GSM voice was evaluated for body-worn SAR.
4. Justification for reduced test configurations per KDB 941225 D01v03r01: The source-based time-averaged output power was evaluated for all multi-slot operations. The multi-slot configuration with the highest frame averaged output power including tolerance was evaluated for SAR.
5. Per FCC KDB 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is 1/2 dB, instead of the middle channel, the highest output power channel must be used.
6. Justification for reduced test configurations per KDB Publication 941225 D01v03r01 and October 2013 TCB Workshop Notes: The source-based frame-averaged output power was evaluated for all GPRS/EDGE slot configurations. The configuration with the highest target frame averaged output power was evaluated for hotspot SAR. When the maximum frame-averaged powers are equivalent across two or more slots (within 0.25 dB), the configuration with the most number of time slots was tested.

UMTS Notes:

1. The 12.2 kbps RMC mode is the primary mode per KDB 941225 D01v03r01.
2. UMTS SAR was tested under RMC 12.2 kbps with HSPA inactive per KDB publication 941225 D01v03r01. AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
3. Per FCC KDB 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the channel highest output power channel was used.

LTE Notes:

1. LTE Considerations: LTE test configurations are determined according to SAR Evaluation Consideration for LTE Devices in FCC KDB 941225 D05v02r05.
2. According to FCC KDB 941225 D05v02r05:
When the reported SAR is ≤ 0.8 W/kg, testing of the 100% RB allocation and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the 1RB, 50%RB and 100%RB allocation with highest output power for that channel.
Only one channel, and as reported SAR values for 1RB allocation and 50%RB allocation were less than 1.45W/Kg only the highest power RB offset for each allocation was required.
3. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to target MPR is indicated alongside the SAR results.
4. When Power reduction is applied, MPR is 0
5. A-MPR was disabled for all SAR tests by setting NS=01 on the base station simulator.
6. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) LTE TDD Band 41 SAR measured at the highest output power channel for each test configuration is ≤ 0.6 W/kg then testing at the other channels is not required for such test configurations.
7. TDD LTE (Power Class 3) was tested using UL-DL configuration 0 with 6 UL sub frames and 2S sub frames using extended cyclic prefix only and special sub frame configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix.

Per 3GPP 36.211 Sec. 4, the duty factor using extended cyclic prefix is 0.633(cf=1.58).

8. Per KDB 941225 D05Av01r02, SAR for LTE Carrier Aggregation operations was not needed because the maximum average output power in LTE CA mode was not > 0.25 dB higher than the maximum output power when downlink CA was not activated.
9. This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The Highest available duty cycle for Power Class 2 operations is 43.3% using UL-DL configuration 1. Per May TCB Workshop notes, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure conditions.
10. SAR test reduction is applied using the following criteria:
Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB, and 50% RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is >0.8 W/kg, testing for other Channels is performed at the highest output power level for 1RB, and 50% RB configuration for that channel. Testing for 100% RB configuration is performed at the highest output power level for 100% RB configuration across the Low, Mid and High Channel when the highest reported SAR for 1 RB and 50% RB are >0.8 W/kg, testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation <1.45 W/kg. Testing for 16-QAM modulation is not required because the reported SAR for QPSK is <1.45 W/kg and its output power is not more than 0.5 dB higher than that a QPSK. Testing for the other channel bandwidths is not required because the reported SAR for the highest channel bandwidth is <1.45 W/kg and its output power is not more than 0.5 dB higher than that of the highest channel bandwidth.

NR Notes:

1. NR implementation of n71, n5, n66, n2,n25 and n41 is limited to EN- DC operations only, with LTE Bands 2/5/12/13/25/30/66 acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.
2. Due to test setup limitations, SAR testing for NR was performed using test mode software to establish the connection.
3. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
4. For NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
5. For final implementation, TDD NR slot configuration is synchronized using maximum duty cycle of 25%. SAR testing was performed using FTM mode with a 25% duty cycle applied to match final duty cycle.

WLAN Notes:

1. For held-to-ear and hotspot operations, the initial test position procedures were applied. For initial test position, the highest extrapolated peak SAR will be used. When reported SAR for the initial test position is ≤ 0.4 W/kg for 1g SAR and ≤ 1.0 W/kg for 10g SAR, no additional testing for the remaining test positions was required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR results is ≤ 0.8 W/kg for 1g SAR and ≤ 2.0 W/kg for 10g SAR or all test position are measured.
2. Per KDB 2482227 D01v02r02 justification for test configurations of 2.4 GHz WiFi Single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11 g/n) was not required due to the maximum allowed powers and the highest reported DSSS SAR.
3. Per KDB 2482227 D01v02r02 justification for test configurations of 5 GHz WiFi Single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission mode were not investigated since the highest reported SAR for initial test configuration adjusted by the ration of maximum output powers is less than 1.2 W/kg for 1g SAR and less than 3.0 W/kg for 10 g SAR.
4. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg or all test channels were measured.
5. The device was configured to transmit continuously at the required data rated, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated WLAN test reports.

Bluetooth Notes:

1. Bluetooth SAR was measured with the device connected to a call box with hopping disabled with DH5 operation and Tx Tests mode type. Per October 2016 TCBC Workshop Notes, the reported SAR was scaled to 100% transmission duty factor to determine compliance. Please see sec.11 for the time-domain plot and calculation for duty factor of the device.
2. Head and Bluetooth tethering SAR were evaluated for BT BR tethering applications.

14. Simultaneous SAR Analysis

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per KDB Publication 447498 D01v06 4.3.2, simultaneous transmission SAR test exclusion may be applied when the sum of 1g SAR and 10g SAR for all the simultaneous transmitting antennas in a specific physical test configuration is $\leq 1.6W/kg$ for 1g SAR and $\leq 4 W/kg$ for 10g SAR. The different test positions in an exposure condition may be considered collectively to determine SAR exclusion according to the sum of 1g or 10g SAR.

14.1 Head SAR Simultaneous Transmission Analysis.

| Simultaneous Transmission Summation Scenario with 2.4 GHz MIMO WLAN | | | | |
|---|-------------------|----------|-----------------------|------------------|
| Exposure condition | Band | WWAN SAR | 2.4 GHz WLAN MIMO SAR | Σ 1-g SAR |
| | | (W/kg) | (W/kg) | (W/kg) |
| | | 1 | 2 | 1+2 |
| Head SAR | EVDO BC10 (§90S) | 0.266 | 0.579 | 0.845 |
| | EVDO BC0 (§22H) | 0.171 | 0.579 | 0.750 |
| | PCS CDMA/EVDO | 0.163 | 0.579 | 0.742 |
| | GSM 850 | 0.145 | 0.579 | 0.724 |
| | GPRS 850 | 0.223 | 0.579 | 0.802 |
| | GSM 1900 | 0.074 | 0.579 | 0.653 |
| | GPRS 1900 | 0.100 | 0.579 | 0.679 |
| | UMTS 850 | 0.197 | 0.579 | 0.776 |
| | UMTS 1700 | 0.128 | 0.579 | 0.707 |
| | UMTS 1900 | 0.144 | 0.579 | 0.723 |
| | LTE Band 7 | 0.100 | 0.579 | 0.679 |
| | LTE Band 12 | 0.193 | 0.579 | 0.772 |
| | LTE Band 13 | 0.279 | 0.579 | 0.858 |
| | LTE Band 14 | 0.258 | 0.579 | 0.837 |
| | LTE Band 25 | 0.085 | 0.579 | 0.664 |
| | LTE Band 26 | 0.185 | 0.579 | 0.764 |
| | LTE Band 30 | 0.122 | 0.579 | 0.701 |
| | LTE Band 40 Low | 0.000494 | 0.579 | 0.579 |
| | LTE Band 40 Upper | 0.040 | 0.579 | 0.619 |
| | LTE Band 41 | 0.080 | 0.579 | 0.659 |
| | LTE Band 66 | 0.231 | 0.579 | 0.810 |
| LTE Band 71 | 0.264 | 0.579 | 0.843 | |
| NR Band n5 | 0.093 | 0.579 | 0.672 | |
| NR Band n25 | 0.188 | 0.579 | 0.767 | |
| NR Band n41 | 0.075 | 0.579 | 0.654 | |
| NR Band n66 | 0.112 | 0.579 | 0.691 | |
| NR Band n71 | 0.198 | 0.579 | 0.777 | |

| Simultaneous Transmission Summation Scenario with 2.4 GHz WLAN & 5GHz WLAN | | | | | | | |
|--|-------------------|----------|-----------------------|-----------------------|---------------------|---------------------|------------------|
| Exposure condition | Band | WWAN SAR | 2.4 GHz WLAN Ant1 SAR | 2.4 GHz WLAN Ant2 SAR | 5 GHz WLAN Ant1 SAR | 5 GHz WLAN Ant2 SAR | Σ 1-g SAR |
| | | (W/kg) | (W/kg) | (W/kg) | (W/kg) | (W/kg) | (W/kg) |
| | | 1 | 2 | 3 | 4 | 5 | 1+2+3+4+5 |
| Head SAR | EVDO BC10 (\$90S) | 0.266 | 0.545 | 0.140 | 0.044 | 0.391 | 1.386 |
| | EVDO BC0 (\$22H) | 0.171 | 0.545 | 0.140 | 0.044 | 0.391 | 1.291 |
| | PCS CDMA/EVDO | 0.163 | 0.545 | 0.140 | 0.044 | 0.391 | 1.283 |
| | GSM 850 | 0.145 | 0.545 | 0.140 | 0.044 | 0.391 | 1.265 |
| | GPRS 850 | 0.223 | 0.545 | 0.140 | 0.044 | 0.391 | 1.343 |
| | GSM 1900 | 0.074 | 0.545 | 0.140 | 0.044 | 0.391 | 1.194 |
| | GPRS 1900 | 0.100 | 0.545 | 0.140 | 0.044 | 0.391 | 1.220 |
| | UMTS 850 | 0.197 | 0.545 | 0.140 | 0.044 | 0.391 | 1.317 |
| | UMTS 1700 | 0.128 | 0.545 | 0.140 | 0.044 | 0.391 | 1.248 |
| | UMTS 1900 | 0.144 | 0.545 | 0.140 | 0.044 | 0.391 | 1.264 |
| | LTE Band 7 | 0.100 | 0.545 | 0.140 | 0.044 | 0.391 | 1.220 |
| | LTE Band 12 | 0.193 | 0.545 | 0.140 | 0.044 | 0.391 | 1.313 |
| | LTE Band 13 | 0.279 | 0.545 | 0.140 | 0.044 | 0.391 | 1.399 |
| | LTE Band 14 | 0.258 | 0.545 | 0.140 | 0.044 | 0.391 | 1.378 |
| | LTE Band 25 | 0.085 | 0.545 | 0.140 | 0.044 | 0.391 | 1.205 |
| | LTE Band 26 | 0.185 | 0.545 | 0.140 | 0.044 | 0.391 | 1.305 |
| | LTE Band 30 | 0.122 | 0.545 | 0.140 | 0.044 | 0.391 | 1.242 |
| | LTE Band 40 Low | 0.000494 | 0.545 | 0.140 | 0.044 | 0.391 | 1.120 |
| | LTE Band 40 Upper | 0.040 | 0.545 | 0.140 | 0.044 | 0.391 | 1.160 |
| | LTE Band 41 | 0.080 | 0.545 | 0.140 | 0.044 | 0.391 | 1.200 |
| LTE Band 66 | 0.231 | 0.545 | 0.140 | 0.044 | 0.391 | 1.351 | |
| LTE Band 71 | 0.264 | 0.545 | 0.140 | 0.044 | 0.391 | 1.384 | |
| NR Band n5 | 0.093 | 0.545 | 0.140 | 0.044 | 0.391 | 1.213 | |
| NR Band n25 | 0.188 | 0.545 | 0.140 | 0.044 | 0.391 | 1.308 | |
| NR Band n41 | 0.075 | 0.545 | 0.140 | 0.044 | 0.391 | 1.195 | |
| NR Band n66 | 0.112 | 0.545 | 0.140 | 0.044 | 0.391 | 1.232 | |
| NR Band n71 | 0.198 | 0.545 | 0.140 | 0.044 | 0.391 | 1.318 | |

| Simultaneous Transmission Summation Scenario with 5 GHz WLAN & BT | | | | | | |
|---|-------------------|----------|---------------------|---------------------|--------------------|------------------|
| Exposure condition | Band | WWAN SAR | 5 GHz WLAN Ant1 SAR | 5 GHz WLAN Ant2 SAR | Bluetooth Ant2 SAR | Σ 1-g SAR |
| | | (W/kg) | (W/kg) | (W/kg) | (W/kg) | (W/kg) |
| | | 1 | 2 | 3 | 4 | 1+2+3+4 |
| Head SAR | EVDO BC10 (§90S) | 0.266 | 0.044 | 0.391 | 0.045 | 0.746 |
| | EVDO BC0 (§22H) | 0.171 | 0.044 | 0.391 | 0.045 | 0.651 |
| | PCS CDMA/EVDO | 0.163 | 0.044 | 0.391 | 0.045 | 0.643 |
| | GSM 850 | 0.145 | 0.044 | 0.391 | 0.045 | 0.625 |
| | GPRS 850 | 0.223 | 0.044 | 0.391 | 0.045 | 0.703 |
| | GSM 1900 | 0.074 | 0.044 | 0.391 | 0.045 | 0.554 |
| | GPRS 1900 | 0.100 | 0.044 | 0.391 | 0.045 | 0.580 |
| | UMTS 850 | 0.197 | 0.044 | 0.391 | 0.045 | 0.677 |
| | UMTS 1700 | 0.128 | 0.044 | 0.391 | 0.045 | 0.608 |
| | UMTS 1900 | 0.144 | 0.044 | 0.391 | 0.045 | 0.624 |
| | LTE Band 7 | 0.100 | 0.044 | 0.391 | 0.045 | 0.580 |
| | LTE Band 12 | 0.193 | 0.044 | 0.391 | 0.045 | 0.673 |
| | LTE Band 13 | 0.279 | 0.044 | 0.391 | 0.045 | 0.759 |
| | LTE Band 14 | 0.258 | 0.044 | 0.391 | 0.045 | 0.738 |
| | LTE Band 25 | 0.085 | 0.044 | 0.391 | 0.045 | 0.565 |
| | LTE Band 26 | 0.185 | 0.044 | 0.391 | 0.045 | 0.665 |
| | LTE Band 30 | 0.122 | 0.044 | 0.391 | 0.045 | 0.602 |
| | LTE Band 40 Low | 0.000494 | 0.044 | 0.391 | 0.045 | 0.480 |
| | LTE Band 40 Upper | 0.040 | 0.044 | 0.391 | 0.045 | 0.520 |
| | LTE Band 41 | 0.080 | 0.044 | 0.391 | 0.045 | 0.560 |
| | LTE Band 66 | 0.231 | 0.044 | 0.391 | 0.045 | 0.711 |
| | LTE Band 71 | 0.264 | 0.044 | 0.391 | 0.045 | 0.744 |
| | NR Band n5 | 0.093 | 0.044 | 0.391 | 0.045 | 0.573 |
| NR Band n25 | 0.188 | 0.044 | 0.391 | 0.045 | 0.668 | |
| NR Band n41 | 0.075 | 0.044 | 0.391 | 0.045 | 0.555 | |
| NR Band n66 | 0.112 | 0.044 | 0.391 | 0.045 | 0.592 | |
| NR Band n71 | 0.198 | 0.044 | 0.391 | 0.045 | 0.678 | |

| Simultaneous Transmission Summation Scenario with 2.4 GHz WLAN & 5GHz WLAN & BT | | | | | | | |
|---|-------------------|----------|-----------------------|---------------------|---------------------|--------------------|------------------|
| Exposure condition | Band | WWAN SAR | 2.4 GHz WLAN Ant2 SAR | 5 GHz WLAN Ant1 SAR | 5 GHz WLAN Ant2 SAR | Bluetooth Ant1 SAR | Σ 1-g SAR |
| | | (W/kg) | (W/kg) | (W/kg) | (W/kg) | (W/kg) | (W/kg) |
| | | 1 | 2 | 3 | 4 | 5 | 1+2+3+4+5 |
| Head SAR | EVDO BC10 (\$90S) | 0.266 | 0.140 | 0.044 | 0.391 | 0.174 | 1.015 |
| | EVDO BC0 (\$22H) | 0.171 | 0.140 | 0.044 | 0.391 | 0.174 | 0.920 |
| | PCS CDMA/EVDO | 0.163 | 0.140 | 0.044 | 0.391 | 0.174 | 0.912 |
| | GSM 850 | 0.145 | 0.140 | 0.044 | 0.391 | 0.174 | 0.894 |
| | GPRS 850 | 0.223 | 0.140 | 0.044 | 0.391 | 0.174 | 0.972 |
| | GSM 1900 | 0.074 | 0.140 | 0.044 | 0.391 | 0.174 | 0.823 |
| | GPRS 1900 | 0.100 | 0.140 | 0.044 | 0.391 | 0.174 | 0.849 |
| | UMTS 850 | 0.197 | 0.140 | 0.044 | 0.391 | 0.174 | 0.946 |
| | UMTS 1700 | 0.128 | 0.140 | 0.044 | 0.391 | 0.174 | 0.877 |
| | UMTS 1900 | 0.144 | 0.140 | 0.044 | 0.391 | 0.174 | 0.893 |
| | LTE Band 7 | 0.100 | 0.140 | 0.044 | 0.391 | 0.174 | 0.849 |
| | LTE Band 12 | 0.193 | 0.140 | 0.044 | 0.391 | 0.174 | 0.942 |
| | LTE Band 13 | 0.279 | 0.140 | 0.044 | 0.391 | 0.174 | 1.028 |
| | LTE Band 14 | 0.258 | 0.140 | 0.044 | 0.391 | 0.174 | 1.007 |
| | LTE Band 25 | 0.085 | 0.140 | 0.044 | 0.391 | 0.174 | 0.834 |
| | LTE Band 26 | 0.185 | 0.140 | 0.044 | 0.391 | 0.174 | 0.934 |
| | LTE Band 30 | 0.122 | 0.140 | 0.044 | 0.391 | 0.174 | 0.871 |
| | LTE Band 40 Low | 0.000494 | 0.140 | 0.044 | 0.391 | 0.174 | 0.749 |
| | LTE Band 40 Upper | 0.040 | 0.140 | 0.044 | 0.391 | 0.174 | 0.789 |
| | LTE Band 41 | 0.080 | 0.140 | 0.044 | 0.391 | 0.174 | 0.829 |
| | LTE Band 66 | 0.231 | 0.140 | 0.044 | 0.391 | 0.174 | 0.980 |
| LTE Band 71 | 0.264 | 0.140 | 0.044 | 0.391 | 0.174 | 1.013 | |
| NR Band n5 | 0.093 | 0.140 | 0.044 | 0.391 | 0.174 | 0.842 | |
| NR Band n25 | 0.188 | 0.140 | 0.044 | 0.391 | 0.174 | 0.937 | |
| NR Band n41 | 0.075 | 0.140 | 0.044 | 0.391 | 0.174 | 0.824 | |
| NR Band n66 | 0.112 | 0.140 | 0.044 | 0.391 | 0.174 | 0.861 | |
| NR Band n71 | 0.198 | 0.140 | 0.044 | 0.391 | 0.174 | 0.947 | |

14.2 Body-Worn SAR Simultaneous Transmission Analysis.

| Simultaneous Transmission Summation Scenario with 2.4 GHz MIMO WLAN | | | | | |
|---|---------------|-------------------|----------|-----------------------|------------------|
| Exposure condition | Distance (mm) | Band | WWAN SAR | 2.4 GHz WLAN MIMO SAR | Σ 1-g SAR |
| | | | (W/kg) | (W/kg) | (W/kg) |
| | | | 1 | 2 | 1+2 |
| Body-worn | 15 | EVDO BC10 (§90S) | 0.342 | 0.267 | 0.609 |
| | | EVDO BC0 (§22H) | 0.331 | 0.267 | 0.598 |
| | | PCS CDMA/EVDO | 0.880 | 0.267 | 1.147 |
| | | GSM 850 | 0.266 | 0.267 | 0.533 |
| | | GPRS 850 | 0.390 | 0.267 | 0.657 |
| | | GSM 1900 | 0.348 | 0.267 | 0.615 |
| | | GPRS 1900 | 0.466 | 0.267 | 0.733 |
| | | UMTS 850 | 0.298 | 0.267 | 0.565 |
| | | UMTS 1700 | 0.933 | 0.267 | 1.200 |
| | | UMTS 1900 | 0.719 | 0.267 | 0.986 |
| | | LTE Band 7 | 0.372 | 0.267 | 0.639 |
| | | LTE Band 12 | 0.327 | 0.267 | 0.594 |
| | | LTE Band 13 | 0.448 | 0.267 | 0.715 |
| | | LTE Band 14 | 0.443 | 0.267 | 0.710 |
| | | LTE Band 25 | 0.684 | 0.267 | 0.951 |
| | | LTE Band 26 | 0.289 | 0.267 | 0.556 |
| | | LTE Band 30 | 0.506 | 0.267 | 0.773 |
| | | LTE Band 40 Low | 0.015 | 0.267 | 0.282 |
| | | LTE Band 40 Upper | 0.017 | 0.267 | 0.284 |
| | | LTE Band 41 | 0.289 | 0.267 | 0.556 |
| | | LTE Band 66 | 1.050 | 0.267 | 1.317 |
| | | LTE Band 71 | 0.393 | 0.267 | 0.660 |
| | | NR Band n5 | 0.171 | 0.267 | 0.438 |
| NR Band n25 | 1.108 | 0.267 | 1.375 | | |
| NR Band n41 | 0.097 | 0.267 | 0.364 | | |
| NR Band n66 | 0.500 | 0.267 | 0.767 | | |
| NR Band n71 | 0.322 | 0.267 | 0.589 | | |

| Simultaneous Transmission Summation Scenario with 2.4 GHz WLAN & 5GHz WLAN | | | | | | | | |
|--|---------------|-------------------|----------|-----------------------|-----------------------|---------------------|---------------------|------------------|
| Exposure condition | Distance (mm) | Band | WWAN SAR | 2.4 GHz WLAN Ant1 SAR | 2.4 GHz WLAN Ant2 SAR | 5 GHz WLAN Ant1 SAR | 5 GHz WLAN Ant2 SAR | Σ 1-g SAR |
| | | | (W/kg) | (W/kg) | (W/kg) | (W/kg) | (W/kg) | (W/kg) |
| | | | 1 | 2 | 3 | 4 | 5 | 1+2+3+4+5 |
| Body-worn | 15 | EVDO BC10 (§90S) | 0.342 | 0.167 | 0.076 | 0.179 | 0.107 | 0.871 |
| | | EVDO BC0 (§22H) | 0.331 | 0.167 | 0.076 | 0.179 | 0.107 | 0.860 |
| | | PCS CDMA/EVDO | 0.880 | 0.167 | 0.076 | 0.179 | 0.107 | 1.409 |
| | | GSM 850 | 0.266 | 0.167 | 0.076 | 0.179 | 0.107 | 0.795 |
| | | GPRS 850 | 0.390 | 0.167 | 0.076 | 0.179 | 0.107 | 0.919 |
| | | GSM 1900 | 0.348 | 0.167 | 0.076 | 0.179 | 0.107 | 0.877 |
| | | GPRS 1900 | 0.466 | 0.167 | 0.076 | 0.179 | 0.107 | 0.995 |
| | | UMTS 850 | 0.298 | 0.167 | 0.076 | 0.179 | 0.107 | 0.827 |
| | | UMTS 1700 | 0.933 | 0.167 | 0.076 | 0.179 | 0.107 | 1.462 |
| | | UMTS 1900 | 0.719 | 0.167 | 0.076 | 0.179 | 0.107 | 1.248 |
| | | LTE Band 7 | 0.372 | 0.167 | 0.076 | 0.179 | 0.107 | 0.901 |
| | | LTE Band 12 | 0.327 | 0.167 | 0.076 | 0.179 | 0.107 | 0.856 |
| | | LTE Band 13 | 0.448 | 0.167 | 0.076 | 0.179 | 0.107 | 0.977 |
| | | LTE Band 14 | 0.443 | 0.167 | 0.076 | 0.179 | 0.107 | 0.972 |
| | | LTE Band 25 | 0.684 | 0.167 | 0.076 | 0.179 | 0.107 | 1.213 |
| | | LTE Band 26 | 0.289 | 0.167 | 0.076 | 0.179 | 0.107 | 0.818 |
| | | LTE Band 30 | 0.506 | 0.167 | 0.076 | 0.179 | 0.107 | 1.035 |
| | | LTE Band 40 Low | 0.015 | 0.167 | 0.076 | 0.179 | 0.107 | 0.544 |
| | | LTE Band 40 Upper | 0.017 | 0.167 | 0.076 | 0.179 | 0.107 | 0.546 |
| | | LTE Band 41 | 0.289 | 0.167 | 0.076 | 0.179 | 0.107 | 0.818 |
| LTE Band 66 | 1.050 | 0.167 | 0.076 | 0.179 | 0.107 | 1.579 | | |
| LTE Band 71 | 0.393 | 0.167 | 0.076 | 0.179 | 0.107 | 0.922 | | |
| NR Band n5 | 0.171 | 0.167 | 0.076 | 0.179 | 0.107 | 0.700 | | |
| NR Band n25 | 1.108 | 0.167 | 0.076 | 0.170 | 0.107 | See below table | | |
| NR Band n41 | 0.097 | 0.167 | 0.076 | 0.179 | 0.107 | 0.626 | | |
| NR Band n66 | 0.500 | 0.167 | 0.076 | 0.179 | 0.107 | 1.029 | | |
| NR Band n71 | 0.322 | 0.167 | 0.076 | 0.179 | 0.107 | 0.851 | | |

| Simultaneous Transmission Summation Scenario with 2.4 GHz WLAN & 5GHz WLAN for n25 | | | | | | | |
|--|---------------|-------------|----------|-----------------------|-----------------------|---------------------|------------------|
| Exposure condition | Distance (mm) | Band | WWAN SAR | 2.4 GHz WLAN Ant1 SAR | 2.4 GHz WLAN Ant2 SAR | 5 GHz WLAN MIMO SAR | Σ 1-g SAR |
| | | | (W/kg) | (W/kg) | (W/kg) | (W/kg) | (W/kg) |
| | | | 1 | 2 | 3 | 4 | 1+2+3+4 |
| Body-worn | 15 | NR Band n25 | 1.108 | 0.167 | 0.076 | 0.185 | 1.536 |

| Simultaneous Transmission Summation Scenario with 5GHz WLAN & BT | | | | | | | |
|--|---------------|-------------------|----------|---------------------|---------------------|--------------------|------------------|
| Exposure condition | Distance (mm) | Band | WWAN SAR | 5 GHz WLAN Ant1 SAR | 5 GHz WLAN Ant2 SAR | Bluetooth Ant2 SAR | Σ 1-g SAR |
| | | | (W/kg) | (W/kg) | (W/kg) | (W/kg) | (W/kg) |
| | | | 1 | 2 | 3 | 4 | 1+2+3+4 |
| Body-worn | 15 | EVDO BC10 (§90S) | 0.342 | 0.179 | 0.107 | 0.018 | 0.646 |
| | | EVDO BC0 (§22H) | 0.331 | 0.179 | 0.107 | 0.018 | 0.635 |
| | | PCS CDMA/EVDO | 0.880 | 0.179 | 0.107 | 0.018 | 1.184 |
| | | GSM 850 | 0.266 | 0.179 | 0.107 | 0.018 | 0.570 |
| | | GPRS 850 | 0.390 | 0.179 | 0.107 | 0.018 | 0.694 |
| | | GSM 1900 | 0.348 | 0.179 | 0.107 | 0.018 | 0.652 |
| | | GPRS 1900 | 0.466 | 0.179 | 0.107 | 0.018 | 0.770 |
| | | UMTS 850 | 0.298 | 0.179 | 0.107 | 0.018 | 0.602 |
| | | UMTS 1700 | 0.933 | 0.179 | 0.107 | 0.018 | 1.237 |
| | | UMTS 1900 | 0.719 | 0.179 | 0.107 | 0.018 | 1.023 |
| | | LTE Band 7 | 0.372 | 0.179 | 0.107 | 0.018 | 0.676 |
| | | LTE Band 12 | 0.327 | 0.179 | 0.107 | 0.018 | 0.631 |
| | | LTE Band 13 | 0.448 | 0.179 | 0.107 | 0.018 | 0.752 |
| | | LTE Band 14 | 0.443 | 0.179 | 0.107 | 0.018 | 0.747 |
| | | LTE Band 25 | 0.684 | 0.179 | 0.107 | 0.018 | 0.988 |
| | | LTE Band 26 | 0.289 | 0.179 | 0.107 | 0.018 | 0.593 |
| | | LTE Band 30 | 0.506 | 0.179 | 0.107 | 0.018 | 0.810 |
| | | LTE Band 40 Low | 0.015 | 0.179 | 0.107 | 0.018 | 0.319 |
| | | LTE Band 40 Upper | 0.017 | 0.179 | 0.107 | 0.018 | 0.321 |
| | | LTE Band 41 | 0.289 | 0.179 | 0.107 | 0.018 | 0.593 |
| LTE Band 66 | 1.050 | 0.179 | 0.107 | 0.018 | 1.354 | | |
| LTE Band 71 | 0.393 | 0.179 | 0.107 | 0.018 | 0.697 | | |
| NR Band n5 | 0.171 | 0.179 | 0.107 | 0.018 | 0.475 | | |
| NR Band n25 | 1.108 | 0.179 | 0.107 | 0.018 | 1.412 | | |
| NR Band n41 | 0.097 | 0.179 | 0.107 | 0.018 | 0.401 | | |
| NR Band n66 | 0.500 | 0.179 | 0.107 | 0.018 | 0.804 | | |
| NR Band n71 | 0.322 | 0.179 | 0.107 | 0.018 | 0.626 | | |

| Simultaneous Transmission Summation Scenario with 2.4 GHz WLAN & 5GHz WLAN & BT | | | | | | | | |
|---|---------------|-------------------|----------|-----------------------|---------------------|---------------------|--------------------|------------------|
| Exposure condition | Distance (mm) | Band | WWAN SAR | 2.4 GHz WLAN Ant2 SAR | 5 GHz WLAN Ant1 SAR | 5 GHz WLAN Ant2 SAR | Bluetooth Ant1 SAR | Σ 1-g SAR |
| | | | (W/kg) | (W/kg) | (W/kg) | (W/kg) | (W/kg) | (W/kg) |
| | | | 1 | 2 | 3 | 4 | 5 | 1+2+3+4+5 |
| Body-worn | 15 | EVDO BC10 (\$90S) | 0.342 | 0.076 | 0.179 | 0.107 | 0.083 | 0.787 |
| | | EVDO BC0 (\$22H) | 0.331 | 0.076 | 0.179 | 0.107 | 0.083 | 0.776 |
| | | PCS CDMA/EVDO | 0.880 | 0.076 | 0.179 | 0.107 | 0.083 | 1.325 |
| | | GSM 850 | 0.266 | 0.076 | 0.179 | 0.107 | 0.083 | 0.711 |
| | | GPRS 850 | 0.390 | 0.076 | 0.179 | 0.107 | 0.083 | 0.835 |
| | | GSM 1900 | 0.348 | 0.076 | 0.179 | 0.107 | 0.083 | 0.793 |
| | | GPRS 1900 | 0.466 | 0.076 | 0.179 | 0.107 | 0.083 | 0.911 |
| | | UMTS 850 | 0.298 | 0.076 | 0.179 | 0.107 | 0.083 | 0.743 |
| | | UMTS 1700 | 0.933 | 0.076 | 0.179 | 0.107 | 0.083 | 1.378 |
| | | UMTS 1900 | 0.719 | 0.076 | 0.179 | 0.107 | 0.083 | 1.164 |
| | | LTE Band 7 | 0.372 | 0.076 | 0.179 | 0.107 | 0.083 | 0.817 |
| | | LTE Band 12 | 0.327 | 0.076 | 0.179 | 0.107 | 0.083 | 0.772 |
| | | LTE Band 13 | 0.448 | 0.076 | 0.179 | 0.107 | 0.083 | 0.893 |
| | | LTE Band 14 | 0.443 | 0.076 | 0.179 | 0.107 | 0.083 | 0.888 |
| | | LTE Band 25 | 0.684 | 0.076 | 0.179 | 0.107 | 0.083 | 1.129 |
| | | LTE Band 26 | 0.289 | 0.076 | 0.179 | 0.107 | 0.083 | 0.734 |
| | | LTE Band 30 | 0.506 | 0.076 | 0.179 | 0.107 | 0.083 | 0.951 |
| | | LTE Band 40 Low | 0.015 | 0.076 | 0.179 | 0.107 | 0.083 | 0.460 |
| | | LTE Band 40 Upper | 0.017 | 0.076 | 0.179 | 0.107 | 0.083 | 0.462 |
| | | LTE Band 41 | 0.289 | 0.076 | 0.179 | 0.107 | 0.083 | 0.734 |
| LTE Band 66 | 1.050 | 0.076 | 0.179 | 0.107 | 0.083 | 1.495 | | |
| LTE Band 71 | 0.393 | 0.076 | 0.179 | 0.107 | 0.083 | 0.838 | | |
| NR Band n5 | 0.171 | 0.076 | 0.179 | 0.107 | 0.083 | 0.616 | | |
| NR Band n25 | 1.108 | 0.076 | 0.179 | 0.107 | 0.083 | 1.553 | | |
| NR Band n41 | 0.097 | 0.076 | 0.179 | 0.107 | 0.083 | 0.542 | | |
| NR Band n66 | 0.500 | 0.076 | 0.179 | 0.107 | 0.083 | 0.945 | | |
| NR Band n71 | 0.322 | 0.076 | 0.179 | 0.107 | 0.083 | 0.767 | | |

14.3 Hotspot SAR Simultaneous Transmission Analysis.

| Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN & BT (10mm) | | | | | | | | |
|---|--------|-----------------|------------------------------|--------------------|--------------------|-------------------------|-------------------------|----------|
| Band | | WWAN SAR (W/kg) | 2.4 GHz WLAN MIMO SAR (W/kg) | Bluetooth Ant1 SAR | Bluetooth Ant2 SAR | Σ 1-g SAR (W/kg) | Σ 1-g SAR (W/kg) | SPLSR |
| | | 1 | 2 | 3 | 4 | 1+2 | 1+3+4 | (Yes/No) |
| CDMA BC10 | Rear | 0.649 | 0.560 | 0.173 | 0.046 | 1.209 | 0.868 | NO |
| | Front | 0.569 | 0.670 | 0.167 | 0.055 | 1.239 | 0.791 | NO |
| | Left | 0.085 | 0.670 | 0.058 | 0.094 | 0.755 | 0.237 | NO |
| | Right | 0.255 | | | | 0.255 | 0.255 | NO |
| | Top | | 0.670 | 0.285 | 0.015 | 0.670 | 0.300 | NO |
| | Bottom | 0.387 | | | | 0.387 | 0.387 | NO |
| CDMA BC0 | Rear | 0.635 | 0.560 | 0.173 | 0.046 | 1.195 | 0.854 | NO |
| | Front | 0.596 | 0.670 | 0.167 | 0.055 | 1.266 | 0.818 | NO |
| | Left | 0.097 | 0.670 | 0.058 | 0.094 | 0.767 | 0.249 | NO |
| | Right | 0.164 | | | | 0.164 | 0.164 | NO |
| | Top | | 0.670 | 0.285 | 0.015 | 0.670 | 0.300 | NO |
| | Bottom | 0.434 | | | | 0.434 | 0.434 | NO |
| PCS CDMA | Rear | 0.393 | 0.560 | 0.173 | 0.046 | 0.953 | 0.612 | NO |
| | Front | 0.426 | 0.670 | 0.167 | 0.055 | 1.096 | 0.648 | NO |
| | Left | 0.037 | 0.670 | 0.058 | 0.094 | 0.707 | 0.189 | NO |
| | Right | 0.040 | | | | 0.040 | 0.040 | NO |
| | Top | | 0.670 | 0.285 | 0.015 | 0.670 | 0.300 | NO |
| | Bottom | 0.704 | | | | 0.704 | 0.704 | NO |
| GSM 850 | Rear | 0.742 | 0.560 | 0.173 | 0.046 | 1.302 | 0.961 | NO |
| | Front | 0.654 | 0.670 | 0.167 | 0.055 | 1.324 | 0.876 | NO |
| | Left | 0.082 | 0.670 | 0.058 | 0.094 | 0.752 | 0.234 | NO |
| | Right | 0.181 | | | | 0.181 | 0.181 | NO |
| | Top | | 0.670 | 0.285 | 0.015 | 0.670 | 0.300 | NO |
| | Bottom | 0.472 | | | | 0.472 | 0.472 | NO |
| GSM 1900 | Rear | 0.404 | 0.560 | 0.173 | 0.046 | 0.964 | 0.623 | NO |
| | Front | 0.437 | 0.670 | 0.167 | 0.055 | 1.107 | 0.659 | NO |
| | Left | 0.054 | 0.670 | 0.058 | 0.094 | 0.724 | 0.206 | NO |
| | Right | 0.059 | | | | 0.059 | 0.059 | NO |
| | Top | | 0.670 | 0.285 | 0.015 | 0.670 | 0.300 | NO |
| | Bottom | 1.069 | | | | 1.069 | 1.069 | NO |
| UMTS 850 | Rear | 0.580 | 0.560 | 0.173 | 0.046 | 1.140 | 0.799 | NO |
| | Front | 0.431 | 0.670 | 0.167 | 0.055 | 1.101 | 0.653 | NO |
| | Left | 0.102 | 0.670 | 0.058 | 0.094 | 0.772 | 0.254 | NO |
| | Right | 0.225 | | | | 0.225 | 0.225 | NO |
| | Top | | 0.670 | 0.285 | 0.015 | 0.670 | 0.300 | NO |
| | Bottom | 0.348 | | | | 0.348 | 0.348 | NO |
| UMTS 1700 | Rear | 0.544 | 0.560 | 0.173 | 0.046 | 1.104 | 0.763 | NO |
| | Front | 0.447 | 0.670 | 0.167 | 0.055 | 1.117 | 0.669 | NO |
| | Left | 0.083 | 0.670 | 0.058 | 0.094 | 0.753 | 0.235 | NO |
| | Right | 0.088 | | | | 0.088 | 0.088 | NO |
| | Top | | 0.670 | 0.285 | 0.015 | 0.670 | 0.300 | NO |
| | Bottom | 0.792 | | | | 0.792 | 0.792 | NO |
| UMTS 1900 | Rear | 0.456 | 0.560 | 0.173 | 0.046 | 1.016 | 0.675 | NO |
| | Front | 0.474 | 0.670 | 0.167 | 0.055 | 1.144 | 0.696 | NO |
| | Left | 0.053 | 0.670 | 0.058 | 0.094 | 0.723 | 0.205 | NO |
| | Right | 0.059 | | | | 0.059 | 0.059 | NO |
| | Top | | 0.670 | 0.285 | 0.015 | 0.670 | 0.300 | NO |
| | Bottom | 1.034 | | | | 1.034 | 1.034 | NO |

| Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN & BT (10mm) | | | | | | | | |
|---|--------|-----------------|------------------------------|--------------------|--------------------|-------------------------|-------------------------|----------|
| Band | | WWAN SAR (W/kg) | 2.4 GHz WLAN MIMO SAR (W/kg) | Bluetooth Ant1 SAR | Bluetooth Ant2 SAR | Σ 1-g SAR (W/kg) | Σ 1-g SAR (W/kg) | SPLSR |
| | | 1 | 2 | 3 | 4 | 1+2 | 1+3+4 | (Yes/No) |
| LTE Band 7 | Rear | 0.257 | 0.560 | 0.173 | 0.046 | 0.817 | 0.545 | NO |
| | Front | 0.323 | 0.670 | 0.167 | 0.055 | 0.993 | 0.368 | NO |
| | Left | 0.216 | 0.670 | 0.058 | 0.094 | 0.886 | 0.000 | NO |
| | Right | | | | | 0.000 | 0.300 | NO |
| | Top | | 0.670 | 0.285 | 0.015 | 0.670 | 0.503 | NO |
| | Bottom | 0.503 | | | | 0.503 | 0.661 | NO |
| LTE Band 12 | Rear | 0.442 | 0.560 | 0.173 | 0.046 | 1.002 | 0.586 | NO |
| | Front | 0.364 | 0.670 | 0.167 | 0.055 | 1.034 | 0.308 | NO |
| | Left | 0.156 | 0.670 | 0.058 | 0.094 | 0.826 | 0.332 | NO |
| | Right | 0.332 | | | | 0.332 | 0.300 | NO |
| | Top | | 0.670 | 0.285 | 0.015 | 0.670 | 0.357 | NO |
| | Bottom | 0.357 | | | | 0.357 | 1.000 | NO |
| LTE Band 13 | Rear | 0.781 | 0.560 | 0.173 | 0.046 | 1.341 | 0.830 | NO |
| | Front | 0.608 | 0.670 | 0.167 | 0.055 | 1.278 | 0.382 | NO |
| | Left | 0.230 | 0.670 | 0.058 | 0.094 | 0.900 | 0.449 | NO |
| | Right | 0.449 | | | | 0.449 | 0.300 | NO |
| | Top | | 0.670 | 0.285 | 0.015 | 0.670 | 0.549 | NO |
| | Bottom | 0.549 | | | | 0.549 | 1.006 | NO |
| LTE Band 14 | Rear | 0.787 | 0.560 | 0.173 | 0.046 | 1.347 | 0.850 | NO |
| | Front | 0.628 | 0.670 | 0.167 | 0.055 | 1.298 | 0.370 | NO |
| | Left | 0.218 | 0.670 | 0.058 | 0.094 | 0.888 | 0.489 | NO |
| | Right | 0.489 | | | | 0.489 | 0.300 | NO |
| | Top | | 0.670 | 0.285 | 0.015 | 0.670 | 0.533 | NO |
| | Bottom | 0.533 | | | | 0.533 | 0.837 | NO |
| LTE Band 25 | Rear | 0.618 | 0.560 | 0.173 | 0.046 | 1.178 | 0.734 | NO |
| | Front | 0.512 | 0.670 | 0.167 | 0.055 | 1.182 | 0.190 | NO |
| | Left | 0.038 | 0.670 | 0.058 | 0.094 | 0.708 | 0.057 | NO |
| | Right | 0.057 | | | | 0.057 | 0.300 | NO |
| | Top | | 0.670 | 0.285 | 0.015 | 0.670 | 0.961 | NO |
| | Bottom | 0.961 | | | | 0.961 | 0.812 | NO |
| LTE Band 26 | Rear | 0.593 | 0.560 | 0.173 | 0.046 | 1.153 | 0.709 | NO |
| | Front | 0.487 | 0.670 | 0.167 | 0.055 | 1.157 | 0.268 | NO |
| | Left | 0.116 | 0.670 | 0.058 | 0.094 | 0.786 | 0.160 | NO |
| | Right | 0.160 | | | | 0.160 | 0.300 | NO |
| | Top | | 0.670 | 0.285 | 0.015 | 0.670 | 0.373 | NO |
| | Bottom | 0.373 | | | | 0.373 | 0.545 | NO |

| Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN & BT (10mm) | | | | | | | | |
|---|--------|-----------------|------------------------------|--------------------|--------------------|-------------------------|-------------------------|----------|
| Band | | WWAN SAR (W/kg) | 2.4 GHz WLAN MIMO SAR (W/kg) | Bluetooth Ant1 SAR | Bluetooth Ant2 SAR | Σ 1-g SAR (W/kg) | Σ 1-g SAR (W/kg) | SPLSR |
| | | 1 | 2 | 3 | 4 | 1+2 | 1+3+4 | (Yes/No) |
| LTE Band 30 | Rear | 0.435 | 0.560 | 0.173 | 0.046 | 1.041 | 0.654 | NO |
| | Front | 0.290 | 0.670 | 0.167 | 0.055 | 1.015 | 0.512 | NO |
| | Left | 0.199 | 0.670 | 0.058 | 0.094 | 0.963 | 0.351 | NO |
| | Right | | | | | 0.000 | 0.000 | NO |
| | Top | | 0.670 | 0.285 | 0.015 | 0.685 | 0.300 | NO |
| | Bottom | 0.332 | | | | 0.332 | 0.332 | NO |
| LTE Band 40 Low | Rear | 0.026 | 0.560 | 0.173 | 0.046 | 0.632 | 0.245 | NO |
| | Front | 0.028 | 0.670 | 0.167 | 0.055 | 0.753 | 0.250 | NO |
| | Left | 0.016 | 0.670 | 0.058 | 0.094 | 0.780 | 0.168 | NO |
| | Right | | | | | 0.000 | 0.000 | NO |
| | Top | | 0.670 | 0.285 | 0.015 | 0.685 | 0.300 | NO |
| | Bottom | 0.025 | | | | 0.025 | 0.025 | NO |
| LTE Band 40 Upper | Rear | 0.036 | 0.560 | 0.173 | 0.046 | 0.642 | 0.255 | NO |
| | Front | 0.026 | 0.670 | 0.167 | 0.055 | 0.751 | 0.248 | NO |
| | Left | 0.018 | 0.670 | 0.058 | 0.094 | 0.782 | 0.170 | NO |
| | Right | 0.004 | | | | 0.004 | 0.004 | NO |
| | Top | | 0.670 | 0.285 | 0.015 | 0.685 | 0.300 | NO |
| | Bottom | 0.040 | | | | 0.040 | 0.040 | NO |
| LTE Band 41 | Rear | 0.390 | 0.560 | 0.173 | 0.046 | 0.996 | 0.609 | NO |
| | Front | 0.375 | 0.670 | 0.167 | 0.055 | 1.100 | 0.597 | NO |
| | Left | 0.258 | 0.670 | 0.058 | 0.094 | 1.022 | 0.410 | NO |
| | Right | | | | | 0.000 | 0.000 | NO |
| | Top | | 0.670 | 0.285 | 0.015 | 0.685 | 0.300 | NO |
| | Bottom | 0.441 | | | | 0.441 | 0.441 | NO |
| LTE Band 66 | Rear | 0.531 | 0.560 | 0.173 | 0.046 | 1.137 | 0.750 | NO |
| | Front | 0.522 | 0.670 | 0.167 | 0.055 | 1.247 | 0.744 | NO |
| | Left | 0.072 | 0.670 | 0.058 | 0.094 | 0.836 | 0.224 | NO |
| | Right | 0.063 | | | | 0.063 | 0.063 | NO |
| | Top | | 0.670 | 0.285 | 0.015 | 0.685 | 0.300 | NO |
| | Bottom | 0.892 | | | | 0.892 | 0.892 | NO |
| LTE Band 71 | Rear | 0.511 | 0.560 | 0.173 | 0.046 | 1.071 | 0.730 | NO |
| | Front | 0.357 | 0.670 | 0.167 | 0.055 | 1.027 | 0.579 | NO |
| | Left | 0.228 | 0.670 | 0.058 | 0.094 | 0.898 | 0.380 | NO |
| | Right | 0.384 | | | | 0.384 | 0.384 | NO |
| | Top | | 0.670 | 0.285 | 0.015 | 0.670 | 0.300 | NO |
| | Bottom | 0.449 | | | | 0.449 | 0.449 | NO |

| Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN & BT (10mm) | | | | | | | | |
|---|--------|-----------------|------------------------------|--------------------|--------------------|-------------------------|-------------------------|----------|
| Band | | WWAN SAR (W/kg) | 2.4 GHz WLAN MIMO SAR (W/kg) | Bluetooth Ant1 SAR | Bluetooth Ant2 SAR | Σ 1-g SAR (W/kg) | Σ 1-g SAR (W/kg) | SPLSR |
| | | 1 | 2 | 3 | 4 | 1+2 | 1+3+4 | (Yes/No) |
| NR Band n5 | Rear | 0.316 | 0.560 | 0.173 | 0.046 | 0.876 | 0.535 | NO |
| | Front | 0.268 | 0.670 | 0.167 | 0.055 | 0.938 | 0.490 | NO |
| | Left | 0.075 | 0.670 | 0.058 | 0.094 | 0.745 | 0.227 | NO |
| | Right | 0.057 | | | | 0.057 | 0.057 | NO |
| | Top | | 0.670 | 0.285 | 0.015 | 0.670 | 0.300 | NO |
| | Bottom | 0.116 | | | | 0.116 | 0.116 | NO |
| NR Band n25 | Rear | 0.431 | 0.560 | 0.173 | 0.046 | 0.991 | 0.650 | NO |
| | Front | 0.371 | 0.670 | 0.167 | 0.055 | 1.041 | 0.593 | NO |
| | Left | 0.038 | 0.670 | 0.058 | 0.094 | 0.708 | 0.190 | NO |
| | Right | 0.054 | | | | 0.054 | 0.054 | NO |
| | Top | | 0.670 | 0.285 | 0.015 | 0.670 | 0.300 | NO |
| | Bottom | 0.946 | | | | 0.946 | 0.946 | NO |
| NR Band n41 | Rear | 0.148 | 0.560 | 0.173 | 0.046 | 0.708 | 0.367 | NO |
| | Front | 0.080 | 0.670 | 0.167 | 0.055 | 0.750 | 0.302 | NO |
| | Left | 0.057 | 0.670 | 0.058 | 0.094 | 0.727 | 0.209 | NO |
| | Right | | | | | 0.000 | 0.000 | NO |
| | Top | | 0.670 | 0.285 | 0.015 | 0.670 | 0.300 | NO |
| | Bottom | 0.154 | | | | 0.154 | 0.154 | NO |
| NR Band n66 | Rear | 0.524 | 0.560 | 0.173 | 0.046 | 1.084 | 0.743 | NO |
| | Front | 0.497 | 0.670 | 0.167 | 0.055 | 1.167 | 0.719 | NO |
| | Left | 0.080 | 0.670 | 0.058 | 0.094 | 0.750 | 0.232 | NO |
| | Right | 0.076 | | | | 0.076 | 0.076 | NO |
| | Top | | 0.670 | 0.285 | 0.015 | 0.670 | 0.300 | NO |
| | Bottom | 0.874 | | | | 0.874 | 0.874 | NO |
| NR Band n71 | Rear | 0.405 | 0.560 | 0.173 | 0.046 | 0.965 | 0.624 | NO |
| | Front | 0.348 | 0.670 | 0.167 | 0.055 | 1.018 | 0.570 | NO |
| | Left | 0.187 | 0.670 | 0.058 | 0.094 | 0.857 | 0.339 | NO |
| | Right | 0.326 | | | | 0.326 | 0.326 | NO |
| | Top | | 0.670 | 0.285 | 0.015 | 0.670 | 0.300 | NO |
| | Bottom | 0.291 | | | | 0.291 | 0.291 | NO |

| Simultaneous Transmission Scenario 2.4 GHz WLAN & 5GHz WLAN & BT (10 mm) | | | | | | | | | |
|--|--------|-----------------|-----------------------|-----------------------|---------------------|--------------------|-------------------------|-------------------------|----------|
| Band | | WWAN SAR (W/kg) | 2.4 GHz WLAN Ant1 SAR | 2.4 GHz WLAN Ant2 SAR | 5 GHz WLAN MIMO SAR | Bluetooth Ant1 SAR | Σ 1-g SAR (W/kg) | Σ 1-g SAR (W/kg) | SPLSR |
| | | 1 | 2 | 3 | 4 | 5 | 1+2+3+4 | 1+3+4+5 | (Yes/No) |
| CDMA BC10 | Rear | 0.649 | 0.355 | 0.164 | 0.286 | 0.173 | 1.454 | 1.272 | NO |
| | Front | 0.569 | 0.335 | 0.222 | 0.081 | 0.167 | 1.207 | 1.039 | NO |
| | Left | 0.085 | 0.582 | 0.294 | 0.263 | 0.058 | 1.224 | 0.700 | NO |
| | Right | 0.255 | | | | | 0.255 | 0.255 | NO |
| | Top | | 0.582 | 0.294 | 0.156 | 0.285 | 1.032 | 0.735 | NO |
| | Bottom | 0.387 | | | | | 0.387 | 0.387 | NO |
| CDMA BC0 | Rear | 0.635 | 0.355 | 0.164 | 0.286 | 0.173 | 1.440 | 1.258 | NO |
| | Front | 0.596 | 0.335 | 0.222 | 0.081 | 0.167 | 1.234 | 1.066 | NO |
| | Left | 0.097 | 0.582 | 0.294 | 0.263 | 0.058 | 1.236 | 0.712 | NO |
| | Right | 0.164 | | | | | 0.164 | 0.164 | NO |
| | Top | | 0.582 | 0.294 | 0.156 | 0.285 | 1.032 | 0.735 | NO |
| | Bottom | 0.434 | | | | | 0.434 | 0.434 | NO |
| PCS CDMA | Rear | 0.393 | 0.355 | 0.164 | 0.286 | 0.173 | 1.198 | 1.016 | NO |
| | Front | 0.426 | 0.335 | 0.222 | 0.081 | 0.167 | 1.064 | 0.896 | NO |
| | Left | 0.037 | 0.582 | 0.294 | 0.263 | 0.058 | 1.176 | 0.652 | NO |
| | Right | 0.040 | | | | | 0.040 | 0.040 | NO |
| | Top | | 0.582 | 0.294 | 0.156 | 0.285 | 1.032 | 0.735 | NO |
| | Bottom | 0.704 | | | | | 0.704 | 0.704 | NO |
| GSM 850 | Rear | 0.742 | 0.355 | 0.164 | 0.286 | 0.173 | 1.547 | 1.365 | NO |
| | Front | 0.654 | 0.335 | 0.222 | 0.081 | 0.167 | 1.292 | 1.124 | NO |
| | Left | 0.082 | 0.582 | 0.294 | 0.263 | 0.058 | 1.221 | 0.697 | NO |
| | Right | 0.181 | | | | | 0.181 | 0.181 | NO |
| | Top | | 0.582 | 0.294 | 0.156 | 0.285 | 1.032 | 0.735 | NO |
| | Bottom | 0.472 | | | | | 0.472 | 0.472 | NO |
| GSM 1900 | Rear | 0.404 | 0.355 | 0.164 | 0.286 | 0.173 | 1.209 | 1.027 | NO |
| | Front | 0.437 | 0.335 | 0.222 | 0.081 | 0.167 | 1.075 | 0.907 | NO |
| | Left | 0.054 | 0.582 | 0.294 | 0.263 | 0.058 | 1.193 | 0.669 | NO |
| | Right | 0.059 | | | | | 0.059 | 0.059 | NO |
| | Top | | 0.582 | 0.294 | 0.156 | 0.285 | 1.032 | 0.735 | NO |
| | Bottom | 1.069 | | | | | 1.069 | 1.069 | NO |
| UMTS 850 | Rear | 0.580 | 0.355 | 0.164 | 0.286 | 0.173 | 1.385 | 1.203 | NO |
| | Front | 0.431 | 0.335 | 0.222 | 0.081 | 0.167 | 1.069 | 0.901 | NO |
| | Left | 0.102 | 0.582 | 0.294 | 0.263 | 0.058 | 1.241 | 0.717 | NO |
| | Right | 0.225 | | | | | 0.225 | 0.225 | NO |
| | Top | | 0.582 | 0.294 | 0.156 | 0.285 | 1.032 | 0.735 | NO |
| | Bottom | 0.348 | | | | | 0.348 | 0.348 | NO |
| UMTS 1700 | Rear | 0.544 | 0.355 | 0.164 | 0.286 | 0.173 | 1.349 | 1.167 | NO |
| | Front | 0.447 | 0.335 | 0.222 | 0.081 | 0.167 | 1.085 | 0.917 | NO |
| | Left | 0.083 | 0.582 | 0.294 | 0.263 | 0.058 | 1.222 | 0.698 | NO |
| | Right | 0.088 | | | | | 0.088 | 0.088 | NO |
| | Top | | 0.582 | 0.294 | 0.156 | 0.285 | 1.032 | 0.735 | NO |
| | Bottom | 0.792 | | | | | 0.792 | 0.792 | NO |
| UMTS 1900 | Rear | 0.456 | 0.355 | 0.164 | 0.286 | 0.173 | 1.261 | 1.079 | NO |
| | Front | 0.474 | 0.335 | 0.222 | 0.081 | 0.167 | 1.112 | 0.944 | NO |
| | Left | 0.053 | 0.582 | 0.294 | 0.263 | 0.058 | 1.192 | 0.668 | NO |
| | Right | 0.059 | | | | | 0.059 | 0.059 | NO |
| | Top | | 0.582 | 0.294 | 0.156 | 0.285 | 1.032 | 0.735 | NO |
| | Bottom | 1.034 | | | | | 1.034 | 1.034 | NO |

| Simultaneous Transmission Scenario 2.4 GHz WLAN & 5GHz WLAN & BT (10 mm) | | | | | | | | | |
|--|--------|-----------------|-----------------------|-----------------------|---------------------|--------------------|-------------------------|-------------------------|----------|
| Band | | WWAN SAR (W/kg) | 2.4 GHz WLAN Ant1 SAR | 2.4 GHz WLAN Ant2 SAR | 5 GHz WLAN MIMO SAR | Bluetooth Ant1 SAR | Σ 1-g SAR (W/kg) | Σ 1-g SAR (W/kg) | SPLSR |
| | | 1 | 2 | 3 | 4 | 5 | 1+2+3+4 | 1+3+4+5 | (Yes/No) |
| LTE Band 7 | Rear | 0.257 | 0.355 | 0.164 | 0.286 | 0.173 | 1.062 | 0.880 | NO |
| | Front | 0.323 | 0.335 | 0.222 | 0.081 | 0.167 | 0.961 | 0.793 | NO |
| | Left | 0.216 | 0.582 | 0.294 | 0.263 | 0.058 | 1.355 | 0.831 | NO |
| | Right | | | | | | 0.000 | 0.000 | NO |
| | Top | | 0.582 | 0.294 | 0.156 | 0.285 | 1.032 | 0.735 | NO |
| | Bottom | 0.503 | | | | | 0.503 | 0.503 | NO |
| LTE Band 12 | Rear | 0.442 | 0.355 | 0.164 | 0.286 | 0.173 | 1.247 | 1.065 | NO |
| | Front | 0.364 | 0.335 | 0.222 | 0.081 | 0.167 | 1.002 | 0.834 | NO |
| | Left | 0.156 | 0.582 | 0.294 | 0.263 | 0.058 | 1.295 | 0.771 | NO |
| | Right | 0.332 | | | | | 0.332 | 0.332 | NO |
| | Top | | 0.582 | 0.294 | 0.156 | 0.285 | 1.032 | 0.735 | NO |
| | Bottom | 0.357 | | | | | 0.357 | 0.357 | NO |
| LTE Band 13 | Rear | 0.781 | 0.355 | 0.164 | 0.286 | 0.173 | 1.586 | 1.404 | NO |
| | Front | 0.608 | 0.335 | 0.222 | 0.081 | 0.167 | 1.246 | 1.078 | NO |
| | Left | 0.230 | 0.582 | 0.294 | 0.263 | 0.058 | 1.369 | 0.845 | NO |
| | Right | 0.449 | | | | | 0.449 | 0.449 | NO |
| | Top | | 0.582 | 0.294 | 0.156 | 0.285 | 1.032 | 0.735 | NO |
| | Bottom | 0.549 | | | | | 0.549 | 0.549 | NO |
| LTE Band 14 | Rear | 0.787 | 0.355 | 0.164 | 0.286 | 0.173 | 1.592 | 1.410 | NO |
| | Front | 0.628 | 0.335 | 0.222 | 0.081 | 0.167 | 1.266 | 1.098 | NO |
| | Left | 0.218 | 0.582 | 0.294 | 0.263 | 0.058 | 1.357 | 0.833 | NO |
| | Right | 0.489 | | | | | 0.489 | 0.489 | NO |
| | Top | | 0.582 | 0.294 | 0.156 | 0.285 | 1.032 | 0.735 | NO |
| | Bottom | 0.533 | | | | | 0.533 | 0.533 | NO |
| LTE Band 25 | Rear | 0.618 | 0.355 | 0.164 | 0.286 | 0.173 | 1.423 | 1.241 | NO |
| | Front | 0.512 | 0.335 | 0.222 | 0.081 | 0.167 | 1.150 | 0.982 | NO |
| | Left | 0.038 | 0.582 | 0.294 | 0.263 | 0.058 | 1.177 | 0.653 | NO |
| | Right | 0.057 | | | | | 0.057 | 0.057 | NO |
| | Top | | 0.582 | 0.294 | 0.156 | 0.285 | 1.032 | 0.735 | NO |
| | Bottom | 0.961 | | | | | 0.961 | 0.961 | NO |
| LTE Band 26 | Rear | 0.593 | 0.355 | 0.164 | 0.286 | 0.173 | 1.398 | 1.216 | NO |
| | Front | 0.487 | 0.335 | 0.222 | 0.081 | 0.167 | 1.125 | 0.957 | NO |
| | Left | 0.116 | 0.582 | 0.294 | 0.263 | 0.058 | 1.255 | 0.731 | NO |
| | Right | 0.160 | | | | | 0.160 | 0.160 | NO |
| | Top | | 0.582 | 0.294 | 0.156 | 0.285 | 1.032 | 0.735 | NO |
| | Bottom | 0.373 | | | | | 0.373 | 0.373 | NO |

| Simultaneous Transmission Scenario 2.4 GHz WLAN & 5GHz WLAN & BT (10 mm) | | | | | | | | | |
|--|--------|-----------------|-----------------------|-----------------------|---------------------|--------------------|-------------------------|-------------------------|----------|
| Band | | WWAN SAR (W/kg) | 2.4 GHz WLAN Ant1 SAR | 2.4 GHz WLAN Ant2 SAR | 5 GHz WLAN MIMO SAR | Bluetooth Ant1 SAR | Σ 1-g SAR (W/kg) | Σ 1-g SAR (W/kg) | SPLSR |
| | | 1 | 2 | 3 | 4 | 5 | 1+2+3+4 | 1+3+4+5 | (Yes/No) |
| LTE Band 30 | Rear | 0.435 | 0.355 | 0.164 | 0.286 | 0.173 | 1.240 | 1.058 | NO |
| | Front | 0.290 | 0.335 | 0.222 | 0.081 | 0.167 | 0.928 | 0.760 | NO |
| | Left | 0.199 | 0.582 | 0.294 | 0.263 | 0.058 | 1.338 | 0.814 | NO |
| | Right | | | | | | 0.000 | 0.000 | NO |
| | Top | | 0.582 | 0.294 | 0.156 | 0.285 | 1.032 | 0.735 | NO |
| | Bottom | 0.332 | | | | | 0.332 | 0.332 | NO |
| LTE Band 40 Low | Rear | 0.026 | 0.355 | 0.164 | 0.286 | 0.173 | 0.831 | 0.649 | NO |
| | Front | 0.028 | 0.335 | 0.222 | 0.081 | 0.167 | 0.666 | 0.498 | NO |
| | Left | 0.016 | 0.582 | 0.294 | 0.263 | 0.058 | 1.155 | 0.631 | NO |
| | Right | | | | | | 0.000 | 0.000 | NO |
| | Top | | 0.582 | 0.294 | 0.156 | 0.285 | 1.032 | 0.735 | NO |
| | Bottom | 0.025 | | | | | 0.025 | 0.025 | NO |
| LTE Band 40 Upper | Rear | 0.036 | 0.355 | 0.164 | 0.286 | 0.173 | 0.841 | 0.659 | NO |
| | Front | 0.026 | 0.335 | 0.222 | 0.081 | 0.167 | 0.664 | 0.496 | NO |
| | Left | 0.018 | 0.582 | 0.294 | 0.263 | 0.058 | 1.157 | 0.633 | NO |
| | Right | 0.004 | | | | | 0.004 | 0.004 | NO |
| | Top | | 0.582 | 0.294 | 0.156 | 0.285 | 1.032 | 0.735 | NO |
| | Bottom | 0.040 | | | | | 0.040 | 0.040 | NO |
| LTE Band 41 | Rear | 0.390 | 0.355 | 0.164 | 0.286 | 0.173 | 1.195 | 1.013 | NO |
| | Front | 0.375 | 0.335 | 0.222 | 0.081 | 0.167 | 1.013 | 0.845 | NO |
| | Left | 0.258 | 0.582 | 0.294 | 0.263 | 0.058 | 1.397 | 0.873 | NO |
| | Right | | | | | | 0.000 | 0.000 | NO |
| | Top | | 0.582 | 0.294 | 0.156 | 0.285 | 1.032 | 0.735 | NO |
| | Bottom | 0.441 | | | | | 0.441 | 0.441 | NO |
| LTE Band 66 | Rear | 0.531 | 0.355 | 0.164 | 0.286 | 0.173 | 1.336 | 1.154 | NO |
| | Front | 0.522 | 0.335 | 0.222 | 0.081 | 0.167 | 1.160 | 0.992 | NO |
| | Left | 0.072 | 0.582 | 0.294 | 0.263 | 0.058 | 1.211 | 0.687 | NO |
| | Right | 0.063 | | | | | 0.063 | 0.063 | NO |
| | Top | | 0.582 | 0.294 | 0.156 | 0.285 | 1.032 | 0.735 | NO |
| | Bottom | 0.892 | | | | | 0.892 | 0.892 | NO |
| LTE Band 71 | Rear | 0.511 | 0.355 | 0.164 | 0.286 | 0.173 | 1.316 | 1.134 | NO |
| | Front | 0.357 | 0.335 | 0.222 | 0.081 | 0.167 | 0.995 | 0.827 | NO |
| | Left | 0.228 | 0.582 | 0.294 | 0.263 | 0.058 | 1.367 | 0.843 | NO |
| | Right | 0.384 | | | | | 0.384 | 0.384 | NO |
| | Top | | 0.582 | 0.294 | 0.156 | 0.285 | 1.032 | 0.735 | NO |
| | Bottom | 0.449 | | | | | 0.449 | 0.449 | NO |

| Simultaneous Transmission Scenario 2.4 GHz WLAN & 5GHz WLAN & BT (10 mm) | | | | | | | | | |
|--|--------|-----------------|-----------------------|-----------------------|---------------------|--------------------|-------------------------|-------------------------|----------|
| Band | | WWAN SAR (W/kg) | 2.4 GHz WLAN Ant1 SAR | 2.4 GHz WLAN Ant2 SAR | 5 GHz WLAN MIMO SAR | Bluetooth Ant1 SAR | Σ 1-g SAR (W/kg) | Σ 1-g SAR (W/kg) | SPLSR |
| | | 1 | 2 | 3 | 4 | 5 | 1+2+3+4 | 1+3+4+5 | (Yes/No) |
| NR Band n5 | Rear | 0.316 | 0.355 | 0.164 | 0.286 | 0.173 | 1.121 | 0.939 | NO |
| | Front | 0.268 | 0.335 | 0.222 | 0.081 | 0.167 | 0.906 | 0.738 | NO |
| | Left | 0.075 | 0.582 | 0.294 | 0.263 | 0.058 | 1.214 | 0.690 | NO |
| | Right | 0.057 | | | | | 0.057 | 0.057 | NO |
| | Top | | 0.582 | 0.294 | 0.156 | 0.285 | 1.032 | 0.735 | NO |
| | Bottom | 0.116 | | | | | 0.116 | 0.116 | NO |
| NR Band n25 | Rear | 0.431 | 0.355 | 0.164 | 0.286 | 0.173 | 1.236 | 1.054 | NO |
| | Front | 0.371 | 0.335 | 0.222 | 0.081 | 0.167 | 1.009 | 0.841 | NO |
| | Left | 0.038 | 0.582 | 0.294 | 0.263 | 0.058 | 1.177 | 0.653 | NO |
| | Right | 0.054 | | | | | 0.054 | 0.054 | NO |
| | Top | | 0.582 | 0.294 | 0.156 | 0.285 | 1.032 | 0.735 | NO |
| | Bottom | 0.946 | | | | | 0.946 | 0.946 | NO |
| NR Band n41 | Rear | 0.148 | 0.355 | 0.164 | 0.286 | 0.173 | 0.953 | 0.771 | NO |
| | Front | 0.080 | 0.335 | 0.222 | 0.081 | 0.167 | 0.718 | 0.550 | NO |
| | Left | 0.057 | 0.582 | 0.294 | 0.263 | 0.058 | 1.196 | 0.672 | NO |
| | Right | | | | | | 0.000 | 0.000 | NO |
| | Top | | 0.582 | 0.294 | 0.156 | 0.285 | 1.032 | 0.735 | NO |
| | Bottom | 0.154 | | | | | 0.154 | 0.154 | NO |
| NR Band n66 | Rear | 0.524 | 0.355 | 0.164 | 0.286 | 0.173 | 1.329 | 1.147 | NO |
| | Front | 0.497 | 0.335 | 0.222 | 0.081 | 0.167 | 1.135 | 0.967 | NO |
| | Left | 0.080 | 0.582 | 0.294 | 0.263 | 0.058 | 1.219 | 0.695 | NO |
| | Right | 0.076 | | | | | 0.076 | 0.076 | NO |
| | Top | | 0.582 | 0.294 | 0.156 | 0.285 | 1.032 | 0.735 | NO |
| | Bottom | 0.874 | | | | | 0.874 | 0.874 | NO |
| NR Band n71 | Rear | 0.405 | 0.355 | 0.164 | 0.286 | 0.173 | 1.210 | 1.028 | NO |
| | Front | 0.348 | 0.335 | 0.222 | 0.081 | 0.167 | 0.986 | 0.818 | NO |
| | Left | 0.187 | 0.582 | 0.294 | 0.263 | 0.058 | 1.326 | 0.802 | NO |
| | Right | 0.326 | | | | | 0.326 | 0.326 | NO |
| | Top | | 0.582 | 0.294 | 0.156 | 0.285 | 1.032 | 0.735 | NO |
| | Bottom | 0.291 | | | | | 0.291 | 0.291 | NO |

| Simultaneous Transmission Scenario 5GHz WLAN & BT (10 mm) | | | | | | | |
|---|--------|-----------------|---------------------|---------------------|--------------------|-------------------------|----------|
| Band | | WWAN SAR (W/kg) | 5 GHz WLAN Ant1 SAR | 5 GHz WLAN Ant2 SAR | Bluetooth Ant2 SAR | Σ 1-g SAR (W/kg) | SPLSR |
| | | 1 | 2 | 3 | 4 | 1+2+3+4 | (Yes/No) |
| CDMA BC10 | Rear | 0.649 | 0.357 | 0.219 | 0.046 | 1.271 | NO |
| | Front | 0.569 | 0.039 | 0.058 | 0.055 | 0.721 | NO |
| | Left | 0.085 | 0.149 | 0.188 | 0.094 | 0.516 | NO |
| | Right | 0.255 | | | | 0.255 | NO |
| | Top | | 0.357 | 0.076 | 0.015 | 0.448 | NO |
| | Bottom | 0.387 | | | | 0.387 | NO |
| CDMA BC0 | Rear | 0.635 | 0.357 | 0.219 | 0.046 | 1.257 | NO |
| | Front | 0.596 | 0.039 | 0.058 | 0.055 | 0.748 | NO |
| | Left | 0.097 | 0.149 | 0.188 | 0.094 | 0.528 | NO |
| | Right | 0.164 | | | | 0.164 | NO |
| | Top | | 0.357 | 0.076 | 0.015 | 0.448 | NO |
| | Bottom | 0.434 | | | | 0.434 | NO |
| PCS CDMA | Rear | 0.393 | 0.357 | 0.219 | 0.046 | 1.015 | NO |
| | Front | 0.426 | 0.039 | 0.058 | 0.055 | 0.578 | NO |
| | Left | 0.037 | 0.149 | 0.188 | 0.094 | 0.468 | NO |
| | Right | 0.040 | | | | 0.040 | NO |
| | Top | | 0.357 | 0.076 | 0.015 | 0.448 | NO |
| | Bottom | 0.704 | | | | 0.704 | NO |
| GSM 850 | Rear | 0.742 | 0.357 | 0.219 | 0.046 | 1.364 | NO |
| | Front | 0.654 | 0.039 | 0.058 | 0.055 | 0.806 | NO |
| | Left | 0.082 | 0.149 | 0.188 | 0.094 | 0.513 | NO |
| | Right | 0.181 | | | | 0.181 | NO |
| | Top | | 0.357 | 0.076 | 0.015 | 0.448 | NO |
| | Bottom | 0.472 | | | | 0.472 | NO |
| GSM 1900 | Rear | 0.404 | 0.357 | 0.219 | 0.046 | 1.026 | NO |
| | Front | 0.437 | 0.039 | 0.058 | 0.055 | 0.589 | NO |
| | Left | 0.054 | 0.149 | 0.188 | 0.094 | 0.485 | NO |
| | Right | 0.059 | | | | 0.059 | NO |
| | Top | | 0.357 | 0.076 | 0.015 | 0.448 | NO |
| | Bottom | 1.069 | | | | 1.069 | NO |
| UMTS 850 | Rear | 0.580 | 0.357 | 0.219 | 0.046 | 1.202 | NO |
| | Front | 0.431 | 0.039 | 0.058 | 0.055 | 0.583 | NO |
| | Left | 0.102 | 0.149 | 0.188 | 0.094 | 0.533 | NO |
| | Right | 0.225 | | | | 0.225 | NO |
| | Top | | 0.357 | 0.076 | 0.015 | 0.448 | NO |
| | Bottom | 0.348 | | | | 0.348 | NO |
| UMTS 1700 | Rear | 0.544 | 0.357 | 0.219 | 0.046 | 1.166 | NO |
| | Front | 0.447 | 0.039 | 0.058 | 0.055 | 0.599 | NO |
| | Left | 0.083 | 0.149 | 0.188 | 0.094 | 0.514 | NO |
| | Right | 0.088 | | | | 0.088 | NO |
| | Top | | 0.357 | 0.076 | 0.015 | 0.448 | NO |
| | Bottom | 0.792 | | | | 0.792 | NO |
| UMTS 1900 | Rear | 0.456 | 0.357 | 0.219 | 0.046 | 1.078 | NO |
| | Front | 0.474 | 0.039 | 0.058 | 0.055 | 0.626 | NO |
| | Left | 0.053 | 0.149 | 0.188 | 0.094 | 0.484 | NO |
| | Right | 0.059 | | | | 0.059 | NO |
| | Top | | 0.357 | 0.076 | 0.015 | 0.448 | NO |
| | Bottom | 1.034 | | | | 1.034 | NO |

| Simultaneous Transmission Scenario 5GHz WLAN & BT (10 mm) | | | | | | | |
|---|--------|-----------------|---------------------|---------------------|--------------------|-------------------------|----------|
| Band | | WWAN SAR (W/kg) | 5 GHz WLAN Ant1 SAR | 5 GHz WLAN Ant2 SAR | Bluetooth Ant2 SAR | Σ 1-g SAR (W/kg) | SPLSR |
| | | 1 | 2 | 3 | 4 | 1+2+3+4 | (Yes/No) |
| LTE Band 7 | Rear | 0.257 | 0.357 | 0.219 | 0.046 | 0.879 | NO |
| | Front | 0.323 | 0.039 | 0.058 | 0.055 | 0.475 | NO |
| | Left | 0.216 | 0.149 | 0.188 | 0.094 | 0.647 | NO |
| | Right | | | | | 0.000 | NO |
| | Top | | 0.357 | 0.076 | 0.015 | 0.448 | NO |
| | Bottom | 0.503 | | | | 0.503 | NO |
| LTE Band 12 | Rear | 0.442 | 0.357 | 0.219 | 0.046 | 1.064 | NO |
| | Front | 0.364 | 0.039 | 0.058 | 0.055 | 0.516 | NO |
| | Left | 0.156 | 0.149 | 0.188 | 0.094 | 0.587 | NO |
| | Right | 0.332 | | | | 0.332 | NO |
| | Top | | 0.357 | 0.076 | 0.015 | 0.448 | NO |
| | Bottom | 0.357 | | | | 0.357 | NO |
| LTE Band 13 | Rear | 0.781 | 0.357 | 0.219 | 0.046 | 1.403 | NO |
| | Front | 0.608 | 0.039 | 0.058 | 0.055 | 0.760 | NO |
| | Left | 0.230 | 0.149 | 0.188 | 0.094 | 0.661 | NO |
| | Right | 0.449 | | | | 0.449 | NO |
| | Top | | 0.357 | 0.076 | 0.015 | 0.448 | NO |
| | Bottom | 0.549 | | | | 0.549 | NO |
| LTE Band 14 | Rear | 0.787 | 0.357 | 0.219 | 0.046 | 1.409 | NO |
| | Front | 0.628 | 0.039 | 0.058 | 0.055 | 0.780 | NO |
| | Left | 0.218 | 0.149 | 0.188 | 0.094 | 0.649 | NO |
| | Right | 0.489 | | | | 0.489 | NO |
| | Top | | 0.357 | 0.076 | 0.015 | 0.448 | NO |
| | Bottom | 0.533 | | | | 0.533 | NO |
| LTE Band 25 | Rear | 0.618 | 0.357 | 0.219 | 0.046 | 1.240 | NO |
| | Front | 0.512 | 0.039 | 0.058 | 0.055 | 0.664 | NO |
| | Left | 0.038 | 0.149 | 0.188 | 0.094 | 0.469 | NO |
| | Right | 0.057 | | | | 0.057 | NO |
| | Top | | 0.357 | 0.076 | 0.015 | 0.448 | NO |
| | Bottom | 0.961 | | | | 0.961 | NO |
| LTE Band 26 | Rear | 0.593 | 0.357 | 0.219 | 0.046 | 1.215 | NO |
| | Front | 0.487 | 0.039 | 0.058 | 0.055 | 0.639 | NO |
| | Left | 0.116 | 0.149 | 0.188 | 0.094 | 0.547 | NO |
| | Right | 0.160 | | | | 0.160 | NO |
| | Top | | 0.357 | 0.076 | 0.015 | 0.448 | NO |
| | Bottom | 0.373 | | | | 0.373 | NO |

| Simultaneous Transmission Scenario 5GHz WLAN & BT (10 mm) | | | | | | | |
|---|--------|-----------------|---------------------|---------------------|--------------------|-------------------------|----------|
| Band | | WWAN SAR (W/kg) | 5 GHz WLAN Ant1 SAR | 5 GHz WLAN Ant2 SAR | Bluetooth Ant2 SAR | Σ 1-g SAR (W/kg) | SPLSR |
| | | 1 | 2 | 3 | 4 | 1+2+3+4 | (Yes/No) |
| LTE Band 30 | Rear | 0.435 | 0.357 | 0.219 | 0.046 | 1.057 | NO |
| | Front | 0.290 | 0.039 | 0.058 | 0.055 | 0.442 | NO |
| | Left | 0.199 | 0.149 | 0.188 | 0.094 | 0.630 | NO |
| | Right | | | | | 0.000 | NO |
| | Top | | 0.357 | 0.076 | 0.015 | 0.448 | NO |
| | Bottom | 0.332 | | | | 0.332 | NO |
| LTE Band 40 Low | Rear | 0.026 | 0.357 | 0.219 | 0.046 | 0.648 | NO |
| | Front | 0.028 | 0.039 | 0.058 | 0.055 | 0.180 | NO |
| | Left | 0.016 | 0.149 | 0.188 | 0.094 | 0.447 | NO |
| | Right | | | | | 0.000 | NO |
| | Top | | 0.357 | 0.076 | 0.015 | 0.448 | NO |
| | Bottom | 0.025 | | | | 0.025 | NO |
| LTE Band 40 Upper | Rear | 0.036 | 0.357 | 0.219 | 0.046 | 0.658 | NO |
| | Front | 0.026 | 0.039 | 0.058 | 0.055 | 0.178 | NO |
| | Left | 0.018 | 0.149 | 0.188 | 0.094 | 0.449 | NO |
| | Right | 0.004 | | | | 0.004 | NO |
| | Top | | 0.357 | 0.076 | 0.015 | 0.448 | NO |
| | Bottom | 0.040 | | | | 0.040 | NO |
| LTE Band 41 | Rear | 0.390 | 0.357 | 0.219 | 0.046 | 1.012 | NO |
| | Front | 0.375 | 0.039 | 0.058 | 0.055 | 0.527 | NO |
| | Left | 0.258 | 0.149 | 0.188 | 0.094 | 0.689 | NO |
| | Right | | | | | 0.000 | NO |
| | Top | | 0.357 | 0.076 | 0.015 | 0.448 | NO |
| | Bottom | 0.441 | | | | 0.441 | NO |
| LTE Band 66 | Rear | 0.531 | 0.357 | 0.219 | 0.046 | 1.153 | NO |
| | Front | 0.522 | 0.039 | 0.058 | 0.055 | 0.674 | NO |
| | Left | 0.072 | 0.149 | 0.188 | 0.094 | 0.503 | NO |
| | Right | 0.063 | | | | 0.063 | NO |
| | Top | | 0.357 | 0.076 | 0.015 | 0.448 | NO |
| | Bottom | 0.892 | | | | 0.892 | NO |
| LTE Band 71 | Rear | 0.511 | 0.357 | 0.219 | 0.046 | 1.133 | NO |
| | Front | 0.357 | 0.039 | 0.058 | 0.055 | 0.509 | NO |
| | Left | 0.228 | 0.149 | 0.188 | 0.094 | 0.659 | NO |
| | Right | 0.384 | | | | 0.384 | NO |
| | Top | | 0.357 | 0.076 | 0.015 | 0.448 | NO |
| | Bottom | 0.449 | | | | 0.449 | NO |

| Simultaneous Transmission Scenario 5GHz WLAN & BT (10 mm) | | | | | | | |
|---|--------|-----------------|---------------------|---------------------|--------------------|-------------------------|----------|
| Band | | WWAN SAR (W/kg) | 5 GHz WLAN Ant1 SAR | 5 GHz WLAN Ant2 SAR | Bluetooth Ant2 SAR | Σ 1-g SAR (W/kg) | SPLSR |
| | | 1 | 2 | 3 | 4 | 1+2+3+4 | (Yes/No) |
| NR Band n5 | Rear | 0.316 | 0.357 | 0.219 | 0.046 | 0.938 | NO |
| | Front | 0.268 | 0.039 | 0.058 | 0.055 | 0.420 | NO |
| | Left | 0.075 | 0.149 | 0.188 | 0.094 | 0.506 | NO |
| | Right | 0.057 | | | | 0.057 | NO |
| | Top | | 0.357 | 0.076 | 0.015 | 0.448 | NO |
| | Bottom | 0.116 | | | | 0.116 | NO |
| NR Band n25 | Rear | 0.431 | 0.357 | 0.219 | 0.046 | 1.053 | NO |
| | Front | 0.371 | 0.039 | 0.058 | 0.055 | 0.523 | NO |
| | Left | 0.038 | 0.149 | 0.188 | 0.094 | 0.469 | NO |
| | Right | 0.054 | | | | 0.054 | NO |
| | Top | | 0.357 | 0.076 | 0.015 | 0.448 | NO |
| | Bottom | 0.946 | | | | 0.946 | NO |
| NR Band n41 | Rear | 0.148 | 0.357 | 0.219 | 0.046 | 0.770 | NO |
| | Front | 0.080 | 0.039 | 0.058 | 0.055 | 0.232 | NO |
| | Left | 0.057 | 0.149 | 0.188 | 0.094 | 0.488 | NO |
| | Right | | | | | 0.000 | NO |
| | Top | | 0.357 | 0.076 | 0.015 | 0.448 | NO |
| | Bottom | 0.154 | | | | 0.154 | NO |
| NR Band n66 | Rear | 0.524 | 0.357 | 0.219 | 0.046 | 1.146 | NO |
| | Front | 0.497 | 0.039 | 0.058 | 0.055 | 0.649 | NO |
| | Left | 0.080 | 0.149 | 0.188 | 0.094 | 0.511 | NO |
| | Right | 0.076 | | | | 0.076 | NO |
| | Top | | 0.357 | 0.076 | 0.015 | 0.448 | NO |
| | Bottom | 0.874 | | | | 0.874 | NO |
| NR Band n71 | Rear | 0.405 | 0.357 | 0.219 | 0.046 | 1.027 | NO |
| | Front | 0.348 | 0.039 | 0.058 | 0.055 | 0.500 | NO |
| | Left | 0.187 | 0.149 | 0.188 | 0.094 | 0.618 | NO |
| | Right | 0.326 | | | | 0.326 | NO |
| | Top | | 0.357 | 0.076 | 0.015 | 0.448 | NO |
| | Bottom | 0.291 | | | | 0.291 | NO |

14.4 Phablet SAR Simultaneous Transmission Analysis

| Simultaneous Transmission Scenario with 5G WLAN | | | | | |
|---|--------|-----------------|----------------------------|-------------------------|----------|
| Band | | WWAN SAR (W/kg) | 5 GHz WLAN MIMO SAR (W/kg) | Σ 1-g SAR (W/kg) | SPLSR |
| | | 1 | 2 | 1+2 | (Yes/No) |
| PCS CDMA | Rear | 1.068 | 1.785 | 2.853 | NO |
| | Front | 1.236 | 0.747 | 1.983 | NO |
| | Left | 0.354 | 1.810 | 2.164 | NO |
| | Right | 0.359 | | 0.359 | NO |
| | Top | | 0.372 | 0.372 | NO |
| | Bottom | 1.161 | | 1.161 | NO |
| GSM 1900 | Rear | 1.029 | 1.785 | 2.814 | NO |
| | Front | 1.369 | 0.743 | 2.112 | NO |
| | Left | 0.209 | 1.810 | 2.019 | NO |
| | Right | 0.228 | | 0.228 | NO |
| | Top | | 0.372 | 0.372 | NO |
| | Bottom | 1.245 | | 1.245 | NO |
| UMTS 1700 | Rear | 1.928 | 1.785 | 3.713 | NO |
| | Front | 1.823 | 0.743 | 2.566 | NO |
| | Left | 0.545 | 1.810 | 2.355 | NO |
| | Right | 0.573 | | 0.573 | NO |
| | Top | | 0.372 | 0.372 | NO |
| | Bottom | 1.690 | | 1.690 | NO |
| UMTS 1900 | Rear | 1.013 | 1.785 | 2.798 | NO |
| | Front | 1.293 | 0.743 | 2.036 | NO |
| | Left | 0.134 | 1.810 | 1.944 | NO |
| | Right | 0.390 | | 0.390 | NO |
| | Top | | 0.372 | 0.372 | NO |
| | Bottom | 1.212 | | 1.212 | NO |
| LTE Band 25 | Rear | 1.356 | 1.785 | 3.141 | NO |
| | Front | 1.511 | 0.743 | 2.254 | NO |
| | Left | 0.269 | 1.810 | 2.079 | NO |
| | Right | 0.455 | | 0.455 | NO |
| | Top | | 0.372 | 0.372 | NO |
| | Bottom | 1.233 | | 1.233 | NO |
| LTE Band 66 | Rear | 1.477 | 1.785 | 3.262 | NO |
| | Front | 1.644 | 0.743 | 2.387 | NO |
| | Left | 0.493 | 1.810 | 2.303 | NO |
| | Right | 0.467 | | 0.467 | NO |
| | Top | | 0.372 | 0.372 | NO |
| | Bottom | 1.410 | | 1.410 | NO |
| NR Band n25 | Rear | 1.402 | 1.785 | 3.187 | NO |
| | Front | 1.729 | 0.743 | 2.472 | NO |
| | Left | 0.427 | 1.810 | 2.237 | NO |
| | Right | 0.535 | | 0.535 | NO |
| | Top | | 0.372 | 0.372 | NO |
| | Bottom | 1.642 | | 1.642 | NO |
| NR Band n66 | Rear | 1.141 | 1.785 | 2.926 | NO |
| | Front | 1.195 | 0.743 | 1.938 | NO |
| | Left | 0.355 | 1.810 | 2.165 | NO |
| | Right | 0.417 | | 0.417 | NO |
| | Top | | 0.372 | 0.372 | NO |
| | Bottom | 1.506 | | 1.506 | NO |

14.5 Simultaneous Transmission Conclusion

The above numerical summed SAR Results are sufficient to determine that simultaneous transmission cases will not exceed the SAR Limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE1528-2013.

15. SAR Measurement Variability and Uncertainty

In accordance with KDB procedure 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz, SAR additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement variability was assessed using the following procedures for each frequency band:

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg for 1g SAR or < 2.0 W/kg for 10g SAR; steps 2) through 4) do not apply.
- 2) When the original highest measured 1g SAR is ≥ 0.80 W/kg or 10g SAR ≥ 2.0 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 ≥ 1.45 W/kg for 1g SAR or ≥ 3.625 W/kg for 10g SAR (~ 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 for 1g SAR or ≥ 3.75 W/kg for 10g SAR and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

Hotspot SAR measurement variability Results

| Frequency | | Mode/Band | Configuration | Measured SAR (W/kg) | Repeated SAR (W/kg) | SAR Ratio |
|-----------|---------|-----------|---------------|---------------------|---------------------|-----------|
| Mhz | Channel | | | | | |
| 1 880.0 | 661 | GSM 1900 | Bottom | 0.873 | 0.870 | 1.00 |
| 1 907.6 | 9538 | UMTS 1900 | Bottom | 0.958 | 0.930 | 1.03 |

16. LTE Band 41 Power Class 2 and Power class 3 Linearity

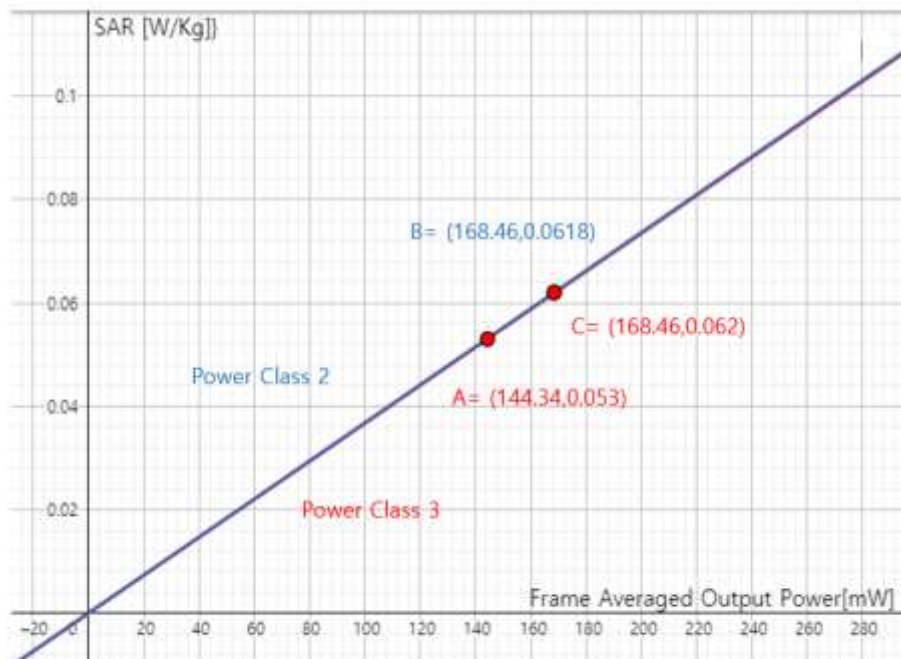
This Device Supports Power Class 2 and Power Class 3 operations for LTE band 41. The Highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL Configuration 1. Per May 2017 TCB Workshop Notes based on the device behavior, all SAR tests were performed using Power class 3. SAR with power class 2 at the highest power and available duty factor was additionally performed for the power class 2 configuration with the Highest SAR for each exposure condition.

The linearity between the power class 3 and Power class 2 SAR Results and the respective frame averaged powers was calculated to determine the results were linear.

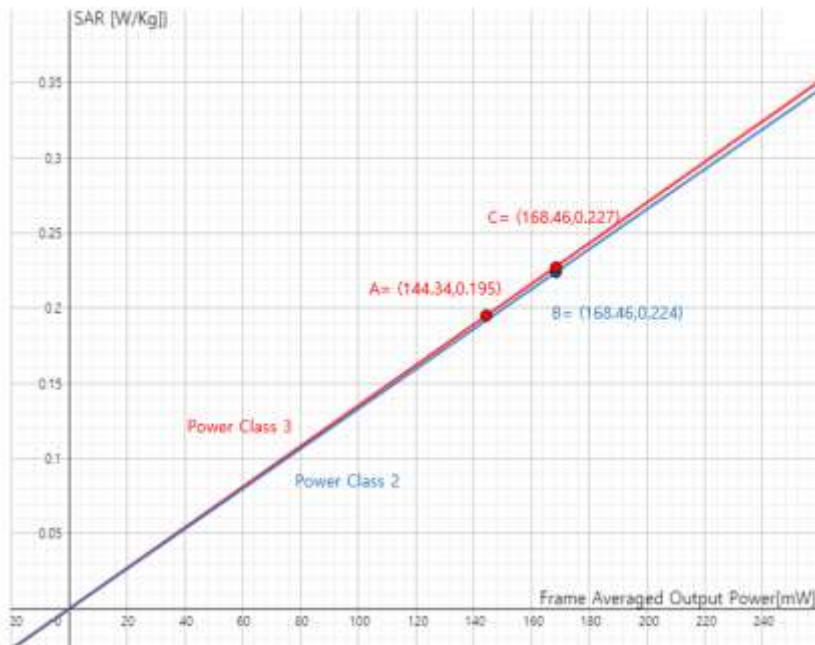
Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes as less than 10 % and all reported SAR values were < 1.4 W/kg

LTE Band 41 Head Linearity Data Table

| Configurations | LTE Band41 PC3 | LTE Band41 PC2 |
|-------------------------------------|----------------|----------------|
| Maximum Allowed Output Power[dBm] | 24.5 | 27 |
| Measured Output Power[dBm] | 23.58 | 25.9 |
| Measured SAR[W/kg] | 0.053 | 0.062 |
| Duty Cycle | 63.30% | 43.30% |
| Frame Averaged Output Power[mW] | 144.34 | 168.46 |
| | 0.000367189 | 0.00036804 |
| % deviation from expected linearity | | -0.23 |



| LTE Band 41 Body worn Linearity Data Table | | |
|--|----------------|----------------|
| Configurations | LTE Band41 PC3 | LTE Band41 PC2 |
| Maximum Allowed Output Power[dBm] | 24.5 | 27 |
| Measured Output Power[dBm] | 23.58 | 25.9 |
| Measured SAR[W/kg] | 0.195 | 0.224 |
| Duty Cycle | 63.30% | 43.30% |
| Frame Averaged Output Power[mW] | 144.34 | 168.46 |
| | 0.001350977 | 0.001329693 |
| % deviation from expected linearity | | 1.60 |



17. Measurement Uncertainty

The measured SAR was <1.5 W/Kg for 1g SAR and <3.75 W/Kg For 10g SAR for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE1528-2013 was not required.

18. SAR Test Equipment

| Manufacturer | Type / Model | S/N | Calib. Date | Calib.Interval | Calib.Due |
|--------------|----------------------------------|------------------|-------------|----------------|------------|
| SPEAG | Triple Modular Phantom | - | N/A | N/A | N/A |
| SPEAG | SAM Phantom | - | N/A | N/A | N/A |
| HP | SAR System Control PC | - | N/A | N/A | N/A |
| Staubli | CS8Cspeag-TX60 | F10/ 5D1CA1/C/01 | N/A | N/A | N/A |
| Staubli | CS8Cspeag-TX90 | F12/5K9GA1/C/01 | N/A | N/A | N/A |
| Staubli | CS8Cspeag-TX90 | F17/59CHA1/C/01 | N/A | N/A | N/A |
| Staubli | CS8Cspeag-TX90 | F17/59RAA1/C/01 | N/A | N/A | N/A |
| Staubli | CS8Cspeag-TX90 | F13/5R4XF1/C/01 | N/A | N/A | N/A |
| Staubli | CS8Cspeag-TX90 | F11/5K3RA1/C/01 | N/A | N/A | N/A |
| Staubli | TX60 Lspeag | F10/ 5D1CA1/A/01 | N/A | N/A | N/A |
| Staubli | TX90 XLspeag | F12/5K9GA1/A/01 | N/A | N/A | N/A |
| Staubli | TX90 XLspeag | F17/59CHA1/A/01 | N/A | N/A | N/A |
| Staubli | TX90 XLspeag | F17/59RAA1/A/01 | N/A | N/A | N/A |
| Staubli | TX90 XLspeag | F13/5R4XF1/A/01 | N/A | N/A | N/A |
| Staubli | TX90 XLspeag | F11/5K3RA1/A/01 | N/A | N/A | N/A |
| Staubli | Teach Pendant (Joystick) | S-0123 | N/A | N/A | N/A |
| Staubli | Teach Pendant (Joystick) | S-1206 0513 | N/A | N/A | N/A |
| Staubli | Teach Pendant (Joystick) | 010963 | N/A | N/A | N/A |
| Staubli | Teach Pendant (Joystick) | 011578 | N/A | N/A | N/A |
| Staubli | Teach Pendant (Joystick) | S-1338 1332 | N/A | N/A | N/A |
| Staubli | Teach Pendant (Joystick) | S-1203 0309 | N/A | N/A | N/A |
| SPEAG | DAE4 | 1417 | 02/26/2020 | Annual | 02/26/2021 |
| SPEAG | DAE4 | 466 | 04/22/2020 | Annual | 04/22/2021 |
| SPEAG | DAE4 | 869 | 09/19/2019 | Annual | 09/19/2020 |
| SPEAG | DAE4 | 648 | 05/25/2020 | Annual | 05/25/2021 |
| SPEAG | DAE4 | 652 | 02/03/2020 | Annual | 02/03/2021 |
| SPEAG | DAE4 | 868 | 09/04/2019 | Annual | 09/04/2020 |
| SPEAG | E-Field Probe EX3DV4 | 3797 | 11/28/2019 | Annual | 11/28/2020 |
| SPEAG | E-Field Probe EX3DV4 | 3903 | 03/25/2020 | Annual | 03/25/2021 |
| SPEAG | E-Field Probe EX3DV4 | 3968 | 09/27/2019 | Annual | 09/27/2020 |
| SPEAG | E-Field Probe EX3DV4 | 7370 | 08/29/2019 | Annual | 08/29/2020 |
| SPEAG | E-Field Probe ET3DV6 | 1630 | 02/26/2020 | Annual | 02/26/2021 |
| SPEAG | E-Field Probe EX3DV4 | 3716 | 11/27/2019 | Annual | 11/27/2020 |
| SPEAG | E-Field Probe EX3DV4 | 3076 | 07/31/2020 | Annual | 07/31/2021 |
| SPEAG | Dipole D750V3 | 1014 | 05/19/2020 | Annual | 05/19/2021 |
| SPEAG | Dipole D835V2 | 4d165 | 07/28/2020 | Annual | 07/28/2021 |
| SPEAG | Dipole D1800V2 | 2d015 | 09/19/2019 | Annual | 09/19/2020 |
| SPEAG | Dipole D1900V2 | 5d061 | 01/21/2020 | Annual | 01/21/2021 |
| SPEAG | Dipole D2300V2 | 1010 | 08/26/2019 | Annual | 08/26/2020 |
| SPEAG | Dipole D2450V2 | 743 | 02/20/2020 | Annual | 02/20/2021 |
| SPEAG | Dipole D2600V2 | 1106 | 09/19/2019 | Annual | 09/19/2020 |
| SPEAG | Dipole D5GHzV2 | 1107 | 09/26/2019 | Annual | 09/26/2020 |
| Agilent | Power Meter E4419B | MY41291386 | 10/07/2019 | Annual | 10/07/2020 |
| Agilent | Power Meter N1911A | MY45101406 | 09/10/2019 | Annual | 09/10/2020 |
| Agilent | Power Sensor 8481A | SG1091286 | 10/07/2019 | Annual | 10/07/2020 |
| Agilent | Power Sensor 8481A | MY41090873 | 10/07/2019 | Annual | 10/07/2020 |
| Agilent | Power Sensor N1921A | MY55220026 | 09/06/2019 | Annual | 09/06/2020 |
| SPEAG | DAKS 3.5 | 1038 | 03/24/2020 | Annual | 03/24/2021 |
| H.P | Network Analyzer /8753ES | JP39240221 | 01/28/2020 | Annual | 01/28/2021 |
| Agilent | WIRELESS COMMUNICATION E5515C | MY48361100 | 10/07/2019 | Annual | 10/07/2020 |
| Agilent | WIRELESS COMMUNICATION E5515C | MY48360252 | 08/06/2020 | Annual | 08/06/2021 |
| Agilent | WIRELESS COMMUNICATION E5515C | GB44051865 | 06/01/2020 | Annual | 06/01/2021 |

| Manufacturer | Type / Model | S/N | Calib. Date | Calib.Interval | Calib.Due |
|--------------|--|-------------|-------------|----------------|------------|
| Agilent | Signal Generator N5182A | MY47070230 | 05/06/2020 | Annual | 05/06/2021 |
| Agilent | 11636B/Power Divider | 58698 | 02/28/2020 | Annual | 02/28/2021 |
| TESTO | 175-H1/Thermometer | 40331915309 | 01/29/2020 | Annual | 01/29/2021 |
| TESTO | 175-H1/Thermometer | 40331936309 | 01/29/2020 | Annual | 01/29/2021 |
| TESTO | 175-H1/Thermometer | 40331922309 | 01/29/2020 | Annual | 01/29/2021 |
| TESTO | 175-H1/Thermometer | 40332651310 | 01/29/2020 | Annual | 01/29/2021 |
| TESTO | 175-H1/Thermometer | 40331949309 | 01/29/2020 | Annual | 01/29/2021 |
| TESTO | 175-H1/Thermometer | 40331939309 | 01/29/2020 | Annual | 01/29/2021 |
| EMPOWER | RF Power Amplifier | 1084 | 07/01/2020 | Annual | 07/01/2021 |
| EMPOWER | RF Power Amplifier | 1011 | 10/08/2019 | Annual | 10/08/2020 |
| MICRO LAB | LP Filter / LA-15N | 10453 | 10/07/2019 | Annual | 10/07/2020 |
| MICRO LAB | LP Filter / LA-30N | - | 10/07/2019 | Annual | 10/07/2020 |
| MICRO LAB | LP Filter / LA-60N | 32011 | 10/07/2019 | Annual | 10/07/2020 |
| Agilent | Attenuator (3dB) 8693B | MY39260298 | 09/18/2019 | Annual | 09/18/2020 |
| HP | Attenuator (20dB) 8493C | 09271 | 09/18/2019 | Annual | 09/18/2020 |
| Agilent | Directional Bridge | 3140A03878 | 06/08/2020 | Annual | 06/08/2021 |
| Agilent | Power Divider | 10 | 07/15/2020 | Annual | 07/15/2021 |
| Agilent | Power Divider | 4 | 07/13/2020 | Annual | 07/13/2021 |
| Agilent | Power Divider | 2 | 07/13/2020 | Annual | 07/13/2021 |
| Agilent | Power Divider | 11 | 07/15/2020 | Annual | 07/15/2021 |
| Agilent | MXA Signal Analyzer N9020A | MY50510407 | 10/29/2019 | Annual | 10/29/2020 |
| HP | Dual Directional Coupler | 16072 | 10/07/2019 | Annual | 10/07/2020 |
| Anritsu | Radio Communication Tester MT8820C | 6201074225 | 03/02/2020 | Annual | 03/02/2021 |
| Anritsu | Radio Communication Tester MT8820C | 6200695605 | 05/06/2020 | Annual | 05/06/2021 |
| Anritsu | Radio Communication Tester MT8820C | 6200628628 | 09/20/2019 | Annual | 09/20/2020 |
| Anritsu | Radio Communication Tester MT8821C | 6201502997 | 08/06/2020 | Annual | 08/06/2021 |
| Anritsu | Radio Communication Tester MT8821C | 6262044720 | 01/06/2020 | Annual | 01/06/2021 |
| Anritsu | Radio Communication Test Station MT8000A | 6262036812 | 01/06/2020 | Annual | 01/06/2021 |
| R&S | Bluetooth CBT | 100272 | 03/02/2020 | Annual | 03/02/2021 |

* The E-field probe was calibrated by SPEAG, by the waveguide technique procedure. Dipole Verification measurement is performed by HCT Lab. before each test. The brain/body simulating material is calibrated by HCT using the DAKS 3.5 to determine the conductivity and permittivity (dielectric constant) of the brain/body-equivalent material.

19. Conclusion

The SAR measurement indicates that the EUT complies with the RF radiation exposure limits of the ANSI/ IEEE C95.1 - 2005.

These measurements were taken to simulate the RF effects exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables.

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