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PART 0 SAR CHAR REPORT

| | |
|--|---|
| Applicant Name: SAMSUNG Electronics Co., Ltd. 129, Samsung-ro, Yeongtong-gu, Suwon-Si, Gyeonggi-do, 16677 Rep. of Korea | Date of Issue: Nov. 26, 2021 Test Report No.: HCT-SR-2111-FC005 Test Site: HCT CO., LTD. |
|--|---|

FCC ID:

A3LSMX808U

Report Type: Part 0 SAR Characterization
Equipment Type: Tablet
Model Name: SM-X808U
Date of Test: Sep. 20. 2021 ~ Nov. 23. 2021

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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REVISION HISTORY

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

| Revision No. | Date of Issue | Description |
|---------------------|----------------------|--------------------|
| 0 | Nov. 26, 2021 | Initial Release |

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.

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1. Test Location

1.1 Test Laboratory

| | |
|---------------------|---|
| Company Name | HCT Co., Ltd. |
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| Telephone | 031-645-6300 |
| Fax. | 031-645-6401 |

1.2 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) |

2. DEVICE UNDER TEST

2.1 General Information of the EUT

| Device Wireless specification overview | | |
|--|----------------|-----------------------------|
| Band & Mode | Operating Mode | Tx Frequency |
| UMTS Band 5 | Data | 826.4 MHz ~ 846.6 MHz |
| UMTS Band 4 | Data | 1 712.4 MHz ~ 1 752.6 MHz |
| UMTS Band 2 | Data | 1 852.4 MHz ~ 1 907.6 MHz |
| LTE Band 2 | Data | 1 850.7 MHz ~ 1 909.3 MHz |
| LTE Band 4 | Data | 1 710.7 MHz ~ 1 754.3 MHz |
| LTE Band 5 (Cell) | Data | 824.7 MHz ~ 848.3 MHz |
| LTE Band 7 | Data | 2 502.5 MHz ~ 2 567.5 MHz |
| LTE Band 12 | Data | 699.7 MHz ~ 715.3 MHz |
| LTE Band 13 | Data | 779.5 MHz ~ 784.5 MHz |
| LTE Band 25 | Data | 1 850.7 MHz ~ 1 914.3 MHz |
| LTE Band 26 | Data | 814.7 MHz ~ 848.3 MHz |
| LTE TDD Band 41 | Data | 2 498.5 MHz ~ 2 687.5 MHz |
| LTE Band 66 (AWS) | Data | 1 710.7 MHz ~ 1 779.3 MHz |
| LTE Band 71 | Data | 665.5 MHz ~ 695.5 MHz |
| NR Band 2 | Data | 1 852.5 MHz ~ 1 907.5 MHz |
| NR Band 5 | Data | 826.5 MHz ~ 846.5 MHz |
| NR Band 25 | Data | 1 852.5 MHz ~ 1912.5 MHz |
| NR Band 41 | Data | 2 506.02 MHz ~ 2 679.99 MHz |
| NR Band 66 | Data | 1 712.5 MHz ~ 1 777.5 MHz |
| NR Band 71 | Data | 665.5 MHz - 695.5 MHz |
| NR Band 77 | Data | 3 710 MHz ~ 3 969.99 MHz |
| NR Band 77(DoD) | Data | 3 450 MHz ~ 3 550 MHz |
| NR Band n260 | Data | 37000 MHz ~ 40000 MHz |
| NR Band n261 | Data | 27500 MHz ~ 28350 MHz |
| 2.4GHz WLAN | Data | 2 412 MHz ~ 2 462 MHz |
| U-NII-1 | Data | 5 180 MHz ~ 5 240 MHz |
| U-NII-2A | Data | 5 260 MHz ~ 5 320 MHz |
| U-NII-2C | Data | 5 500 MHz ~ 5 720 MHz |
| U-NII-3 | Data | 5 745 MHz ~ 5 825 MHz |
| U-NII-4 | Data | 5 845 MHz ~ 5 885 MHz |
| U-NII-5 | Data | 5 935 MHz ~ 6 415 MHz |
| U-NII-6 | Data | 6 435 MHz ~ 6 525 MHz |
| U-NII-7 | Data | 6 535 MHz ~ 6 875 MHz |
| U-NII-8 | Data | 6 895 MHz ~ 7 115 MHz |
| Bluetooth | Data | 2 402 MHz ~ 2 480 MHz |
| S-PEN | Data | 530 kHz |

This device uses the Qualcomm® Smart Transmit feature to control and manage transmitting power in real time and to ensure the time-averaged RF exposure is in compliance with the FCC requirement at all times for 3G/4G/5G WWAN operations. Additionally, this device supports WLAN/BT technologies, but the output power of these modems is not controlled by the Smart Transmit algorithm

2.2 Time-Averaging for SAR

This device is enabled with Qualcomm® Smart Transmit algorithm to control and manage transmitting power in real time and to ensure that the time-averaged RF exposure from 3G/4G/5G NR WWAN is in compliance with FCC requirements.

This Part 0 report shows SAR and Power Density characterization of WWAN radios for 3G/4G and 5G Sub-6 NR respectively. Characterization is achieved by determining PLimit for 3G/4G and 5G Sub-6 NR correspond to the exposure design targets after accounting for all device design related uncertainties ,i.e., SAR_design_target (< FCC SAR limit) for sub-6 radio.

The SAR characterization is denoted as SAR Char in this report. Section 2.3 includes a nomenclature of the specific terms used in this report.

The compliance test under the static transmission scenario and simultaneous transmission analysis are reported in Part 1 report. The validation of the time-averaging algorithm and compliance under the dynamic (time- varying) transmission scenario for WWAN technologies are reported in Part 2 report

2.3 Nomenclature for Part 0 Report

| Technology | Term | Description |
|----------------------|--------------------------|--|
| 3G/4G/5G Sub 6 NR | <i>Plimit</i> | Power level that corresponds to the exposure design target (<i>SAR_design_target</i>) after accounting for all device design related uncertainties |
| | <i>Pmax</i> | Maximum tune up output power |
| | <i>SAR_design_target</i> | Target SAR level < FCC SAR limit after accounting for all device design related uncertainties |
| | <i>SAR Char</i> | Table containing <i>Plimit</i> for all technologies and bands |

3. SAR MEASUREMENTS

3.1 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 (r). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body

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

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.

3.2 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 greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device head and body interface and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013.
2. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.
3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 3-1) and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with: the following procedure (see references or the DASYS manual online for more details)
 - a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in
 - b. Table 3-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).
 - c. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 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 then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.
 - d. 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 was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

| Frequency | Maximum Area Scan Resolution (mm) ($\Delta x_{area}, \Delta y_{area}$) | Maximum Zoom Scan Resolution (mm) ($\Delta x_{zoom}, \Delta y_{zoom}$) | Maximum Zoom Scan Spatial Resolution (mm) | | | Minimum Zoom Scan Volume (mm) (x,y,z) |
|-----------|---|---|---|------------------------|-----------------------------------|--|
| | | | Uniform Grid | Graded Grid | | |
| | | | $\Delta z_{zoom}(n)$ | $\Delta z_{zoom}(1)^*$ | $\Delta z_{zoom}(n>1)^*$ | |
| ≤2 GHz | ≤15 | ≤8 | ≤5 | ≤4 | $\leq 1.5 * \Delta z_{zoom}(n-1)$ | ≥30 |
| 2-3 GHz | ≤12 | ≤5 | ≤5 | ≤4 | $\leq 1.5 * \Delta z_{zoom}(n-1)$ | ≥30 |
| 3-4 GHz | ≤12 | ≤5 | ≤4 | ≤3 | $\leq 1.5 * \Delta z_{zoom}(n-1)$ | ≥28 |
| 4-5 GHz | ≤10 | ≤4 | ≤3 | ≤2.5 | $\leq 1.5 * \Delta z_{zoom}(n-1)$ | ≥25 |
| 5-6 GHz | ≤10 | ≤4 | ≤2 | ≤2 | $\leq 1.5 * \Delta z_{zoom}(n-1)$ | ≥22 |

Table 3-1

Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

4. SAR CHARACTERIZATION

4.1 DSI and SAR Determination

This device uses different Device State Index (DSI) to configure different time averaged power levels based on certain exposure scenarios. Depending on the detection scheme implemented in the smartphone, the worst-case SAR was determined by measurements for the relevant exposure conditions for that DSI. Detailed descriptions of the detection mechanisms are included in the operational description.

When 1g SAR and 10g SAR exposure comparison is needed, the worst-case was determined from SAR normalized to 1g or 10g SAR limit.

The device state index (DSI) conditions used in Table 4-1 represent different exposure scenarios.

| Scenario | Description | SAR Test Cases |
|---------------------|---|-----------------------------------|
| Max Power (DSI = 0) | <ul style="list-style-type: none"> ▪ Device is held with hand and grip sensor is not triggered ▪ Distance grip sensor not triggered Max Power Condition | <i>KDB Publication 616217 D04</i> |
| Grip on (DSI=1) | <ul style="list-style-type: none"> ▪ Device is held with hand and grip sensor is triggered Reduced Power condition | <i>KDB Publication 616217 D04</i> |

Table 4-1 DSI and Corresponding Exposure Scenarios

4.2 SAR Design Target

SAR_design_target is determined by ensuring that it is less than FCC SAR limit after accounting for total device designed related uncertainties specified by the manufacturer (see Table 4-2).

| <i>SAR_design_target</i> | |
|---|----------|
| $SAR_design_target < SAR_regulatory_limit \times 10^{-Total\ Uncertainty/10}$ | |
| 1g SAR (W/kg) | |
| <i>Total Uncertainty</i> | 1.0 dB |
| <i>SAR_regulatory_limit</i> | 1.6 W/kg |
| <i>SAR_design_target</i> | 1.0 W/kg |

Table 4-2 *SAR_design_target* Calculations

4.3 SAR Characterization

SAR test results corresponding to *Pmax* for each antenna/technology/band/DSI can be found in Appendix A. *PLimit* is calculated by linearly scaling with the measured SAR at the *Pmax* to correspond to the *SAR_design_target*. *PLimit* determination for each exposure scenario corresponding to *SAR_design_target* are shown in Table 4-3.

| Device State Index (DSI) | PLimit Determination Scenarios |
|--------------------------|---|
| 0 | The worst-case SAR exposure is determined as maximum SAR normalized to the limit among: <ol style="list-style-type: none"> 1. Body SAR measured at 21, 7, 20mm and 8mm spacing for Rear, Right, Top and Right Corner respectively Main 1 Ant 2. Body SAR measured at 0 mm for Left surfaces for Main 1 Ant /Main 3 Ant 3. Body SAR measured at 9.5, 7, 12mm and 8 mm spacing for Rear, Right, Top and Right Corner respectively Main 3 Ant |
| 1 | <ol style="list-style-type: none"> 1. <i>PLimit</i> is calculated based on 1g Body SAR at 0 mm for Rear, Right and Top surfaces (Main Ant 1) 2. <i>PLimit</i> is calculated based on 1g Body SAR at 0 mm for Rear, Left, Right and Top surfaces (Main Ant 3) |

Table 4-3 *PLimit* Determination

Note:

Main 1 Ant) For DSI=0, *PLimit* is calculated by :

$PLimit = \min\{ PLimit \text{ cooresponding to } 1g \text{ Body SAR evaluation at } 21 \text{ (Rear), } 7\text{(Right), } 20\text{(Top) and } 8\text{mm(Right Corner) spacing } PLimit \text{ cooresponding to } 1g \text{ Body SAR evaluation at } 0\text{mm for Left surfaces}\}$

Main Ant 3) For DSI=0, *PLimit* is calculated by :

$PLimit = \min\{ PLimit \text{ cooresponding to } 1g \text{ Body SAR evaluation at } 9.5\text{(Rear), } 7\text{(Right), } 12\text{(Top) and } 8\text{mm(Right Corner) spacing, } PLimit \text{ cooresponding to } 1g \text{ Body SAR evaluation at } 0\text{mm for Left surfaces}\}$

Table 4-4 SAR Characterization

| SAR Exposure Configurations | | | Plimt (all values are time averaged) | | Pmax | | |
|-----------------------------|------|---------|--------------------------------------|------------------|---------------------------|----------------------------|-------------|
| | | | Body SAR Grip Off | Body SAR Grip ON | Burst Average Power [dBm] | Frame Averaged Power [dBm] | UL:DL Ratio |
| Test Configuration | | | Max Power | Reduced Power | | | |
| Averaging volume | | | 1g | 1g | | | |
| DSI | | | 0 | 1 | | | |
| Mode | Band | Antenna | Plimt | | Pmax | | |
| UMTS | 5 | Main 1 | 23.5 | 16.0 | 23.5 | FDD | 100% |
| UMTS | 4 | Main 1 | 23.5 | 13.0 | 23.5 | FDD | 100% |
| UMTS | 2 | Main 1 | 23.5 | 13.0 | 23.5 | FDD | 100% |
| LTE FDD | 2 | Main 1 | 24.0 | 13.0 | 24.0 | FDD | 100% |
| LTE FDD | 4 | Main 1 | 24.0 | 13.0 | 24.0 | FDD | 100% |
| LTE FDD | 5 | Main 1 | 24.0 | 16.0 | 24.0 | FDD | 100% |
| LTE FDD | 7 | Main 1 | 21.5 | 10.5 | 21.5 | FDD | 100% |
| LTE FDD | 12 | Main 1 | 24.0 | 14.0 | 24.0 | FDD | 100% |
| LTE FDD | 13 | Main 1 | 24.0 | 14.0 | 24.0 | FDD | 100% |
| LTE FDD | 25 | Main 1 | 24.0 | 13.0 | 24.0 | FDD | 100% |
| LTE FDD | 26 | Main 1 | 24.0 | 14.0 | 24.0 | FDD | 100% |
| LTE FDD | 66 | Main 1 | 24.0 | 13.0 | 24.0 | FDD | 100% |
| LTE FDD | 71 | Main 1 | 24.0 | 14.0 | 24.0 | FDD | 100% |
| LTE TDD PC3 | 41 | Main 1 | 22.0 | 11.0 | 24.0 | 22.0 | 63.3% |
| LTE TDD PC2 | 41 | Main 1 | 22.9 | 11.0 | 26.5 | 22.9 | 43.3% |
| LTE FDD With FR1 ENDC | 2 | Sub 1 | 24.0 | 13.5 | 24.0 | FDD | 100% |
| LTE FDD With FR1 ENDC | 66 | Sub 1 | 24.0 | 13.5 | 24.0 | FDD | 100% |
| LTE FDD With FR1 ENDC | 7 | Sub 1 | 21.5 | 13.0 | 21.5 | FDD | 100% |
| NR FDD | 2 | Main 1 | 24.0 | 13.5 | 24.0 | FDD | 100% |
| NR FDD | 5 | Main 1 | 24.0 | 16.0 | 24.0 | FDD | 100% |
| NR FDD | 25 | Main 1 | 24.0 | 13.5 | 24.0 | FDD | 100% |
| NR FDD | 66 | Main 1 | 24.0 | 13.5 | 24.0 | FDD | 100% |
| NR FDD | 71 | Main 1 | 24.0 | 14.0 | 24.0 | FDD | 100% |
| NR TDD (PC3) | 77 | Main 3 | 18.5 | 8.0 | 24.5 | 18.5 | 25% |
| NR TDD (PC2) | 77 | Main 3 | 20.5 | 8.0 | 26.5 | 20.5 | 25% |
| NR TDD (PC3) | 41 | Main 1 | 18.0 | 8.0 | 24.0 | 18.0 | 25% |
| NR TDD (PC2) | 41 | Main 1 | 20.5 | 8.0 | 26.5 | 20.5 | 25% |

Note:

1. when the Proximity sensor is triggered ,the *Plimit* for DSI=1 is set
2. When $P_{max} < P_{limit}$, the DUT will operate at a power level up to P_{max} .
3. When $DSI=1$, $P_{limit}(Tune-up) < P_{limit}(cal)$, the DUT will operate at a power level up to P_{limit} as tune-up document
4. Maximum Tune up Power, P_{max} . Is configured in NV settings in EUT to limit maximum transmitting power
5. In the case of TDD Signal Bands, P_{limit} was evaluated by applying the maximum transmission duty. The LTE TDD B41 (PC3) was applied 63.3%, the LTE TDD B41 (PC2) was 43.3%, and the NR TDD Band was applied 25%..

5. Equipment List

| Manufacturer | Type / Model | S/N | Calib. Date | Calib.Interval | Calib.Due |
|---------------|--------------------------|--------------------|-------------|----------------|------------|
| SPEAG | SAM Phantom | - | N/A | N/A | N/A |
| HP | SAR System Control PC | - | N/A | N/A | N/A |
| Staubli | CS8Cspeag-TX90 | F11/ 5K3RA1/ C/ 01 | N/A | N/A | N/A |
| Staubli | CS8Cspeag-TX90 | F12/ 5K9GA1/ C/ 01 | N/A | N/A | N/A |
| Staubli | TX90 XLspeag | F11/ 5K3RA1/ A/ 01 | N/A | N/A | N/A |
| Staubli | TX90 XLspeag | F12/ 5K9GA1/ A/ 01 | N/A | N/A | N/A |
| Staubli | Teach Pendant (Joystick) | S-1203 0309 | N/A | N/A | N/A |
| Staubli | Teach Pendant (Joystick) | S-1206 0513 | N/A | N/A | N/A |
| TESTO | 175-H1/Thermometer | 40331936309 | 01/26/2021 | Annual | 01/26/2022 |
| TESTO | 175-H1/Thermometer | 44606559906 | 01/26/2021 | Annual | 01/26/2022 |
| SPEAG | DAE4 | 1686 | 06/21/2021 | Annual | 06/21/2022 |
| SPEAG | DAE4 | 504 | 02/19/2021 | Annual | 02/19/2022 |
| SPEAG | E-Field Probe ES3DV3 | 3076 | 07/28/2021 | Annual | 07/28/2022 |
| SPEAG | E-Field Probe EX3DV4 | 7370 | 08/26/2021 | Annual | 08/26/2022 |
| SPEAG | Dipole D750V3 | 1014 | 06/01/2021 | Annual | 06/01/2022 |
| SPEAG | Dipole D835V2 | 4d165 | 08/03/2021 | Annual | 08/03/2022 |
| SPEAG | Dipole D1800V2 | 2d015 | 07/30/2021 | Annual | 07/30/2022 |
| SPEAG | Dipole D1900V2 | 5d032 | 01/28/2021 | Annual | 01/28/2022 |
| SPEAG | Dipole D2600V2 | 1106 | 07/30/2021 | Annual | 07/30/2022 |
| SPEAG | Dipole D3500V2 | 1040 | 02/17/2021 | Annual | 02/17/2022 |
| SPEAG | Dipole D3700V2 | 1066 | 11/19/2020 | Annual | 11/19/2021 |
| SPEAG | Dipole D3900V2 | 1019 | 06/09/2021 | Annual | 06/09/2022 |
| Agilent | Power Meter E4419B | MY41291386 | 10/23/2020 | Annual | 10/23/2021 |
| Agilent | Power Meter E4419B | MY41291386 | 10/22/2021 | Annual | 10/22/2022 |
| Agilent | Power Meter N1911A | MY45101406 | 07/08/2021 | Annual | 07/08/2022 |
| Agilent | Power Sensor 8481A | SG1091286 | 10/05/2020 | Annual | 10/05/2021 |
| Agilent | Power Sensor 8481A | SG1091286 | 10/04/2021 | Annual | 10/04/2022 |
| Agilent | Power Sensor 8481A | MY41090675 | 10/06/2021 | Annual | 10/06/2022 |
| Agilent | Power Sensor N1921A | MY55220026 | 08/05/2021 | Annual | 08/05/2022 |
| SPEAG | DAKS 3.5 | 1038 | 03/17/2021 | Annual | 03/17/2022 |
| ROHDE&SCHWARZ | Signal Generator SMB100A | 177633 | 07/05/2021 | Annual | 07/05/2022 |

| Manufacturer | Type / Model | S/N | Calib. Date | Calib.Interval | Calib.Due |
|---------------|--|-------------|-------------|----------------|------------|
| Agilent | WIRELESS COMMUNICATION E5515C | MY48360252 | 07/23/2021 | Annual | 07/23/2022 |
| R&S | Wireless Communication Test Set CMW500 | 115733 | 04/15/2021 | Annual | 04/15/2022 |
| Agilent | 11636B/Power Divider | 58698 | 02/26/2021 | Annual | 02/26/2022 |
| EMPOWER | RF Power Amplifier | 1084 | 06/25/2021 | Annual | 06/25/2022 |
| EMPOWER | RF Power Amplifier | 1041D/C0508 | 06/24/2021 | Annual | 06/24/2022 |
| EMPOWER | RF Power Amplifier | BBS5K8CAJ | 10/05/2021 | Annual | 10/05/2022 |
| MICRO LAB | LP Filter / LA-15N | 10453 | 10/05/2020 | Annual | 10/05/2021 |
| MICRO LAB | LP Filter / LA-15N | 10453 | 10/06/2021 | Annual | 10/06/2022 |
| MICRO LAB | LP Filter / LA-30N | - | 10/05/2020 | Annual | 10/05/2021 |
| MICRO LAB | LP Filter / LA-30N | - | 10/06/2021 | Annual | 10/06/2022 |
| MICRO LAB | LP Filter / LA-60N | 32011 | 10/05/2020 | Annual | 10/05/2021 |
| MICRO LAB | LP Filter / LA-60N | 32011 | 10/06/2021 | Annual | 10/06/2022 |
| HP | Attenuator (3dB) 333340A | 02427 | 09/06/2021 | Annual | 09/06/2022 |
| HP | Attenuator (20dB) 8493C | 09271 | 09/06/2021 | Annual | 09/17/2022 |
| Agilent | Directional Bridge 86205A | 3140A03878 | 05/28/2021 | Annual | 05/28/2022 |
| Agilent | MXA Signal Analyzer N9020A | MY50510407 | 10/23/2020 | Annual | 10/23/2021 |
| Agilent | MXA Signal Analyzer N9020A | MY50510407 | 10/20/2021 | Annual | 10/20/2022 |
| Anritsu | Radio Communication Tester MT8820C | 6200695605 | 04/15/2021 | Annual | 04/15/2022 |
| Anritsu | Radio Communication Tester MT8821C | 6262287678 | 05/25/2021 | Annual | 05/25/2022 |
| Anritsu | Radio Communication Test Station MT8000A | 6262036812 | 12/22/2020 | Annual | 12/22/2021 |
| ROHDE&SCHWARZ | BLUETOOTH TESTER CBT | 100272 | 02/26/2021 | Annual | 02/26/2022 |

* 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.

6. 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.

Appendix A: SAR Test Results For P_{limit} CALCULATIONS

Table A-10 DSI = 0 P_{Limit} Calculations - - 3G Body SAR

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.

| MEASUREMENT RESULTS | | | | | | | | | | |
|---------------------|------|-----------|-----|--------------------------|---------------|------------------|------------|-------------------------|-----------------------------|-------------------------------------|
| Frequency | | Mode | | Conducted Power (dBm) | Test Position | Distance (mm) | Duty Cycle | Meas. SAR(1g) (W/kg) | P _{limit} (dBm) | Minimum P _{limit} (dBm) |
| Mhz | Ch. | | | | | | | | | |
| 846.6 | 4233 | UMTS 850 | RMC | 24.04 | Rear | 21 | 1:1 | 0.397 | 28.1 | 26.5 |
| 846.6 | 4233 | UMTS 850 | RMC | 24.04 | Top | 20 | 1:1 | 0.568 | 26.5 | |
| 846.6 | 4233 | UMTS 850 | RMC | 24.04 | Right | 7 | 1:1 | 0.178 | 31.5 | |
| 846.6 | 4233 | UMTS 850 | RMC | 24.04 | Left | 0 | 1:1 | 0.074 | 35.3 | |
| 846.6 | 4233 | UMTS 850 | RMC | 24.04 | Right Corner | 8 | 1:1 | 0.100 | 34.0 | |
| 1732.4 | 1412 | UMTS 1700 | RMC | 23.32 | Rear | 21 | 1:1 | 0.266 | 29.1 | 25.6 |
| 1732.4 | 1412 | UMTS 1700 | RMC | 23.32 | Top | 20 | 1:1 | 0.588 | 25.6 | |
| 1732.4 | 1412 | UMTS 1700 | RMC | 23.32 | Right | 7 | 1:1 | 0.182 | 30.7 | |
| 1732.4 | 1412 | UMTS 1700 | RMC | 23.32 | Left | 0 | 1:1 | 0.131 | 32.1 | |
| 1732.4 | 1412 | UMTS 1700 | RMC | 23.32 | Right Corner | 8 | 1:1 | 0.242 | 29.5 | |
| 1880.0 | 9400 | UMTS 1900 | RMC | 24.01 | Rear | 21 | 1:1 | 0.418 | 27.8 | 25.6 |
| 1880.0 | 9400 | UMTS 1900 | RMC | 24.01 | Top | 20 | 1:1 | 0.694 | 25.6 | |
| 1880.0 | 9400 | UMTS 1900 | RMC | 24.01 | Right | 7 | 1:1 | 0.147 | 32.3 | |
| 1880.0 | 9400 | UMTS 1900 | RMC | 24.01 | Left | 0 | 1:1 | 0.425 | 27.7 | |
| 1880.0 | 9400 | UMTS 1900 | RMC | 24.01 | Right Corner | 8 | 1:1 | 0.343 | 28.7 | |

Table A-11 DSI = 0 P_{Limit} Calculations - - 4G Body SAR

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.

| MEASUREMENT RESULTS | | | | | | | | | | | | | | |
|---------------------|-------|------------------|------|------------|-----------------|---------------|----------|-----|---------|-----------|------------|---------------|--------------------|----------------------------|
| Frequency | | Mode | | Band width | Conducted Power | Test Position | Distance | MPR | RB Size | RB offset | Duty Cycle | Meas. SAR(1g) | P _{limit} | Minimum P _{limit} |
| Mhz | Ch. | | | | | | | | | | | | | |
| 2 560 | 21350 | LTE Band 7 | High | 20 | 22.02 | Rear | 21 | 0 | 1 | 0 | 1:1 | 0.170 | 29.7 | 27.2 |
| 2 560 | 21350 | LTE Band 7 | High | 20 | 22.02 | Top | 20 | 0 | 1 | 0 | 1:1 | 0.219 | 28.6 | |
| 2 560 | 21350 | LTE Band 7 | High | 20 | 22.02 | Right | 7 | 0 | 1 | 0 | 1:1 | 0.134 | 30.7 | |
| 2 560 | 21350 | LTE Band 7 | High | 20 | 22.02 | Left | 0 | 0 | 1 | 0 | 1:1 | 0.065 | 33.9 | |
| 2 560 | 21350 | LTE Band 7 | High | 20 | 22.02 | Right Corner | 8 | 0 | 1 | 0 | 1:1 | 0.301 | 27.2 | |
| 707.5 | 23095 | LTE Band 12 | Mid | 10 | 24.71 | Rear | 21 | 0 | 1 | 49 | 1:1 | 0.269 | 30.4 | 29.0 |
| 707.5 | 23095 | LTE Band 12 | Mid | 10 | 24.71 | Top | 20 | 0 | 1 | 49 | 1:1 | 0.372 | 29.0 | |
| 707.5 | 23095 | LTE Band 12 | Mid | 10 | 24.71 | Right | 7 | 0 | 1 | 49 | 1:1 | 0.138 | 33.3 | |
| 707.5 | 23095 | LTE Band 12 | Mid | 10 | 24.71 | Left | 0 | 0 | 1 | 49 | 1:1 | 0.073 | 36.1 | |
| 707.5 | 23095 | LTE Band 12 | Mid | 10 | 24.71 | Right Corner | 8 | 0 | 1 | 49 | 1:1 | 0.070 | 36.3 | |
| 782 | 23230 | LTE Band 13 | Mid | 10 | 24.44 | Rear | 21 | 0 | 1 | 24 | 1:1 | 0.304 | 29.6 | 27.3 |
| 782 | 23230 | LTE Band 13 | Mid | 10 | 24.44 | Top | 20 | 0 | 1 | 24 | 1:1 | 0.517 | 27.3 | |
| 782 | 23230 | LTE Band 13 | Mid | 10 | 24.44 | Right | 7 | 0 | 1 | 24 | 1:1 | 0.110 | 34.0 | |
| 782 | 23230 | LTE Band 13 | Mid | 10 | 24.44 | Left | 0 | 0 | 1 | 24 | 1:1 | 0.045 | 37.9 | |
| 782 | 23230 | LTE Band 13 | Mid | 10 | 24.44 | Right Corner | 8 | 0 | 1 | 24 | 1:1 | 0.076 | 35.6 | |
| 1 882.5 | 26365 | LTE Band 25 | Mid | 20 | 24.57 | Rear | 21 | 0 | 1 | 0 | 1:1 | 0.346 | 29.2 | 27.1 |
| 1 882.5 | 26365 | LTE Band 25 | Mid | 20 | 24.57 | Top | 20 | 0 | 1 | 0 | 1:1 | 0.553 | 27.1 | |
| 1 882.5 | 26365 | LTE Band 25 | Mid | 20 | 24.57 | Right | 7 | 0 | 1 | 0 | 1:1 | 0.166 | 32.4 | |
| 1 882.5 | 26365 | LTE Band 25 | Mid | 20 | 24.57 | Left | 0 | 0 | 1 | 0 | 1:1 | 0.311 | 29.6 | |
| 1 882.5 | 26365 | LTE Band 25 | Mid | 20 | 24.57 | Right Corner | 8 | 0 | 1 | 0 | 1:1 | 0.290 | 29.9 | |
| 831.5 | 26865 | LTE Band 26 | Mid | 15 | 24.00 | Rear | 21 | 0 | 1 | 74 | 1:1 | 0.364 | 28.4 | 27.3 |
| 831.5 | 26865 | LTE Band 26 | Mid | 15 | 24.00 | Top | 20 | 0 | 1 | 74 | 1:1 | 0.471 | 27.3 | |
| 831.5 | 26865 | LTE Band 26 | Mid | 15 | 24.00 | Right | 7 | 0 | 1 | 74 | 1:1 | 0.106 | 33.7 | |
| 831.5 | 26865 | LTE Band 26 | Mid | 15 | 24.00 | Left | 0 | 0 | 1 | 74 | 1:1 | 0.044 | 37.6 | |
| 831.5 | 26865 | LTE Band 26 | Mid | 15 | 24.00 | Right Corner | 8 | 0 | 1 | 74 | 1:1 | 0.087 | 34.6 | |
| 2 593 | 40620 | LTE Band 41(PC3) | Mid | 20 | 22.30 | Rear | 21 | 0 | 1 | 49 | 1:1.58 | 0.131 | 27.4 | 27.4 |
| 2 593 | 40620 | LTE Band 41(PC3) | Mid | 20 | 22.30 | Top | 20 | 0 | 1 | 49 | 1:1.58 | 0.192 | 29.5 | |
| 2 593 | 40620 | LTE Band 41(PC3) | Mid | 20 | 22.30 | Right | 7 | 0 | 1 | 49 | 1:1.58 | 0.120 | 31.5 | |
| 2 593 | 40620 | LTE Band 41(PC3) | Mid | 20 | 22.30 | Left | 0 | 0 | 1 | 49 | 1:1.58 | 0.034 | 37.0 | |
| 2 593 | 40620 | LTE Band 41(PC3) | Mid | 20 | 22.30 | Right Corner | 8 | 0 | 1 | 49 | 1:1.58 | 0.230 | 28.7 | |
| 2 593 | 40620 | LTE Band 41(PC2) | Mid | 20 | 22.67 | Right Corner | 8 | 0 | 1 | 49 | 1:2.31 | 0.258 | 28.6 | |

In the case of TDD Signal mode, P_{limit} was evaluated by applying the maximum transmission duty. The LTE TDD B41 (PC3) was applied 63.3%, the LTE TDD B41 (PC2) was 43.3%, and the NR TDD Band was applied 25%.

| MEASUREMENT RESULTS | | | | | | | | | | | | | | |
|---------------------|--------|---------------------|------|------------------|-----------------------|---------------|---------------|-----------|---------|-----------|------------|----------------------|--------------|----------------------|
| Frequency | | Mode | | Band width (MHz) | Conducted Power (dBm) | Test Position | Distance (mm) | MPR (dBm) | RB Size | RB offset | Duty Cycle | Meas. SAR(1g) (W/kg) | Plimit (dBm) | Minimum Plimit (dBm) |
| Mhz | Ch. | | | | | | | | | | | | | |
| 1 770 | 132572 | LTE Band 66 | High | 20 | 24.16 | Rear | 21 | 0 | 1 | 99 | 1:1 | 0.345 | 28.8 | 26.6 |
| 1 770 | 132572 | LTE Band 66 | High | 20 | 24.16 | Top | 20 | 0 | 1 | 99 | 1:1 | 0.575 | 26.6 | |
| 1 770 | 132572 | LTE Band 66 | High | 20 | 24.16 | Right | 7 | 0 | 1 | 99 | 1:1 | 0.153 | 32.3 | |
| 1 770 | 132572 | LTE Band 66 | High | 20 | 24.16 | Left | 0 | 0 | 1 | 99 | 1:1 | 0.313 | 29.2 | |
| 1 770 | 132572 | LTE Band 66 | High | 20 | 24.16 | Right Corner | 8 | 0 | 1 | 99 | 1:1 | 0.199 | 31.2 | |
| 680.5 | 133297 | LTE Band 71 | Mid | 20 | 24.57 | Rear | 21 | 0 | 1 | 99 | 1:1 | 0.227 | 31.0 | 29.9 |
| 680.5 | 133297 | LTE Band 71 | Mid | 20 | 24.57 | Top | 20 | 0 | 1 | 99 | 1:1 | 0.291 | 29.9 | |
| 680.5 | 133297 | LTE Band 71 | Mid | 20 | 24.57 | Right | 7 | 0 | 1 | 99 | 1:1 | 0.088 | 35.1 | |
| 680.5 | 133297 | LTE Band 71 | Mid | 20 | 24.57 | Left | 0 | 0 | 1 | 99 | 1:1 | 0.058 | 36.9 | |
| 680.5 | 133297 | LTE Band 71 | Mid | 20 | 24.57 | Right Corner | 8 | 0 | 1 | 99 | 1:1 | 0.047 | 37.8 | |
| 1 880 | 18900 | LTE Band 2 (Sub 1) | Mid | 20 | 24.13 | Rear | 17 | 0 | 1 | 99 | 1:1 | 0.367 | 28.5 | 27.7 |
| 1 880 | 18900 | LTE Band 2 (Sub 1) | Mid | 20 | 24.13 | Bottom | 23 | 0 | 1 | 99 | 1:1 | 0.209 | 30.9 | |
| 1 880 | 18900 | LTE Band 2 (Sub 1) | Mid | 20 | 24.13 | Right | 7 | 0 | 1 | 99 | 1:1 | 0.075 | 35.3 | |
| 1 880 | 18900 | LTE Band 2 (Sub 1) | Mid | 20 | 24.13 | Left | 0 | 0 | 1 | 99 | 1:1 | 0.438 | 27.7 | |
| 2 560 | 21350 | LTE Band 7 (Sub 1) | High | 20 | 21.86 | Rear | 17 | 0 | 1 | 99 | 1:1 | 0.099 | 31.9 | 28.0 |
| 2 560 | 21350 | LTE Band 7 (Sub 1) | High | 20 | 21.86 | Bottom | 23 | 0 | 1 | 99 | 1:1 | 0.043 | 35.5 | |
| 2 560 | 21350 | LTE Band 7 (Sub 1) | High | 20 | 21.86 | Right | 7 | 0 | 1 | 99 | 1:1 | 0.025 | 37.9 | |
| 2 560 | 21350 | LTE Band 7 (Sub 1) | High | 20 | 21.86 | Left | 0 | 0 | 1 | 99 | 1:1 | 0.241 | 28.0 | |
| 1 720 | 132072 | LTE Band 66 (Sub 1) | Low | 20 | 24.12 | Rear | 17 | 0 | 1 | 0 | 1:1 | 0.323 | 29.0 | 29.0 |
| 1 770 | 132572 | LTE Band 66 (Sub 1) | High | 20 | 24.12 | Bottom | 23 | 0 | 1 | 0 | 1:1 | 0.215 | 30.8 | |
| 1 720 | 132072 | LTE Band 66 (Sub 1) | Low | 20 | 24.12 | Right | 7 | 0 | 1 | 0 | 1:1 | 0.094 | 34.4 | |
| 1 770 | 132572 | LTE Band 66 (Sub 1) | High | 20 | 24.12 | Left | 0 | 0 | 1 | 0 | 1:1 | 0.314 | 29.2 | |

Table A-11 DSI = 0 P_{Limit} Calculations - - NR Body SAR

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.

| MEASUREMENT RESULTS | | | | | | | | | | | | | | | |
|---------------------|--------|------------------|-----|------------|-----------------|---------------|-----------------|-----|---------|-----|-----|------|---------------|--------------------|----------------------------|
| Frequency | | Mode | | Band width | Conducted Power | Test Position | | MPR | Spacing | RB | RB | Duty | Meas. SAR(1g) | P _{limit} | Minimum P _{limit} |
| Mhz | Ch. | | | | | | | | | | | | | | |
| 836.5 | 167300 | NR Band n5 | Mid | 20 | 24.23 | Rear | DFT-s-OFDM QPSK | 0 | 21 | 1 | 104 | 1:1 | 0.416 | 28.0 | 27.3 |
| 836.5 | 167300 | NR Band n5 | Mid | 20 | 24.23 | Top | DFT-s-OFDM QPSK | 0 | 20 | 1 | 104 | 1:1 | 0.488 | 27.3 | |
| 836.5 | 167300 | NR Band n5 | Mid | 20 | 24.23 | Right | DFT-s-OFDM QPSK | 0 | 7 | 1 | 104 | 1:1 | 0.220 | 30.8 | |
| 836.5 | 167300 | NR Band n5 | Mid | 20 | 24.23 | Left | DFT-s-OFDM QPSK | 0 | 0 | 1 | 104 | 1:1 | 0.071 | 35.7 | |
| 836.5 | 167300 | NR Band n5 | Mid | 20 | 24.23 | Right Corner | DFT-s-OFDM QPSK | 0 | 8 | 1 | 104 | 1:1 | 0.100 | 34.2 | |
| 1882.5 | 376500 | NR Band n25 | Mid | 40 | 23.33 | Rear | DFT-s-OFDM QPSK | 0 | 21 | 1 | 1 | 1:1 | 0.316 | 28.3 | 26.3 |
| 1882.5 | 376500 | NR Band n25 | Mid | 40 | 23.33 | Top | DFT-s-OFDM QPSK | 0 | 20 | 1 | 1 | 1:1 | 0.505 | 26.3 | |
| 1882.5 | 376500 | NR Band n25 | Mid | 40 | 23.33 | Right | DFT-s-OFDM QPSK | 0 | 7 | 1 | 1 | 1:1 | 0.181 | 30.8 | |
| 1882.5 | 376500 | NR Band n25 | Mid | 40 | 23.33 | Left | DFT-s-OFDM QPSK | 0 | 0 | 108 | 54 | 1:1 | 0.064 | 35.3 | |
| 1882.5 | 376500 | NR Band n25 | Mid | 40 | 23.33 | Right Corner | DFT-s-OFDM QPSK | 0 | 8 | 1 | 1 | 1:1 | 0.339 | 28.0 | |
| 2592.99 | 518598 | NR Band n41(PC3) | Mid | 100 | 18.17 | Rear | DFT-s-OFDM QPSK | 0 | 21 | 1 | 1 | 1:1 | 0.073 | 29.5 | 26.6 |
| 2592.99 | 518598 | NR Band n41(PC3) | Mid | 100 | 18.17 | Top | DFT-s-OFDM QPSK | 0 | 20 | 1 | 1 | 1:1 | 0.096 | 28.3 | |
| 2592.99 | 518598 | NR Band n41(PC3) | Mid | 100 | 18.17 | Right | DFT-s-OFDM QPSK | 0 | 7 | 1 | 1 | 1:1 | 0.095 | 28.4 | |
| 2592.99 | 518598 | NR Band n41(PC3) | Mid | 100 | 18.17 | Left | DFT-s-OFDM QPSK | 0 | 0 | 1 | 1 | 1:1 | 0.077 | 29.3 | |
| 2592.99 | 518598 | NR Band n41(PC3) | Mid | 100 | 18.17 | Right Corner | DFT-s-OFDM QPSK | 0 | 8 | 1 | 1 | 1:1 | 0.143 | 26.6 | |
| 2592.99 | 518598 | NR Band n41(PC2) | Mid | 100 | 20.49 | Rear | DFT-s-OFDM QPSK | 0 | 21 | 1 | 271 | 1:1 | 0.171 | 28.1 | 27.7 |
| 2592.99 | 518598 | NR Band n41(PC2) | Mid | 100 | 20.49 | Top | DFT-s-OFDM QPSK | 0 | 20 | 135 | 69 | 1:1 | 0.183 | 27.8 | |
| 2592.99 | 518598 | NR Band n41(PC2) | Mid | 100 | 20.49 | Right | DFT-s-OFDM QPSK | 0 | 7 | 135 | 69 | 1:1 | 0.132 | 29.3 | |
| 2592.99 | 518598 | NR Band n41(PC2) | Mid | 100 | 20.49 | Left | DFT-s-OFDM QPSK | 0 | 0 | 1 | 271 | 1:1 | 0.087 | 31.1 | |
| 2592.99 | 518598 | NR Band n41(PC2) | Mid | 100 | 20.49 | Right Corner | CP-OFDM QPSK | 0 | 8 | 1 | 1 | 1:1 | 0.19 | 27.7 | |
| 1745 | 349000 | NR Band n66 | Mid | 40 | 24.53 | Rear | DFT-s-OFDM QPSK | 0 | 21 | 1 | 1 | 1:1 | 0.377 | 28.8 | 26.8 |
| 1745 | 349000 | NR Band n66 | Mid | 40 | 24.53 | Top | DFT-s-OFDM QPSK | 0 | 20 | 1 | 1 | 1:1 | 0.598 | 26.8 | |
| 1745 | 349000 | NR Band n66 | Mid | 40 | 24.53 | Right | DFT-s-OFDM QPSK | 0 | 7 | 108 | 54 | 1:1 | 0.197 | 31.6 | |
| 1745 | 349000 | NR Band n66 | Mid | 40 | 24.53 | Left | DFT-s-OFDM QPSK | 0 | 0 | 1 | 1 | 1:1 | 0.186 | 31.8 | |
| 1745 | 349000 | NR Band n66 | Mid | 40 | 24.53 | Right Corner | DFT-s-OFDM QPSK | 0 | 8 | 108 | 54 | 1:1 | 0.278 | 30.1 | |
| 680.5 | 136100 | NR Band n71 | Mid | 20 | 23.78 | Rear | DFT-s-OFDM QPSK | 0 | 21 | 1 | 53 | 1:1 | 0.235 | 30.1 | 28.6 |
| 680.5 | 136100 | NR Band n71 | Mid | 20 | 23.78 | Top | DFT-s-OFDM QPSK | 0 | 20 | 1 | 53 | 1:1 | 0.328 | 28.6 | |
| 680.5 | 136100 | NR Band n71 | Mid | 20 | 23.78 | Right | DFT-s-OFDM QPSK | 0 | 7 | 1 | 53 | 1:1 | 0.075 | 35.0 | |
| 680.5 | 136100 | NR Band n71 | Mid | 20 | 23.78 | Left | DFT-s-OFDM QPSK | 0 | 0 | 1 | 53 | 1:1 | 0.061 | 35.9 | |
| 680.5 | 136100 | NR Band n71 | Mid | 20 | 23.78 | Right Corner | DFT-s-OFDM QPSK | 0 | 8 | 1 | 53 | 1:1 | 0.039 | 37.9 | |

In the case of TDD Signal mode, P_{limit} was evaluated by applying the maximum transmission duty. The LTE TDD B41 (PC3) was applied 63.3%, the LTE TDD B41 (PC2) was 43.3%, and the NR TDD Band was applied 25%.

MEASUREMENT RESULTS

| Frequency | | Mode | | Band width | Conducted Power | Test Position | | MPR | Spacing | RB | RB | Duty | Meas. SAR(1g) | Plimit | Minimum Plimit |
|-----------|--------|------------------|-----|------------|-----------------|---------------|-----------------|-------|---------|------|--------|-------|---------------|--------|----------------|
| Mhz | Ch. | | | (MHz) | (dBm) | | | (dBm) | (mm) | Size | offset | Cycle | (W/kg) | (dBm) | (dBm) |
| 3500.01 | 633334 | NR n77 PC2 (DoD) | Mid | 100 | 20.44 | Rear | DFT-s-OFDM QPSK | 0 | 8 | 1 | 1 | 1:1 | 0.782 | 21.3 | 21.3 |
| 3500.01 | 633334 | NR n77 PC2 (DoD) | Mid | 100 | 20.44 | Top | DFT-s-OFDM QPSK | 0 | 11 | 1 | 1 | 1:1 | 0.746 | 21.5 | |
| 3500.01 | 633334 | NR n77 PC2 (DoD) | Mid | 100 | 20.44 | Right | DFT-s-OFDM QPSK | 0 | 7 | 1 | 1 | 1:1 | 0.092 | 30.6 | |
| 3500.01 | 633334 | NR n77 PC2 (DoD) | Mid | 100 | 20.44 | Left | DFT-s-OFDM QPSK | 0 | 0 | 135 | 69 | 1:1 | 0.612 | 22.4 | |
| 3500.01 | 633334 | NR n77 PC2 (DoD) | Mid | 100 | 20.44 | Right Corner | DFT-s-OFDM QPSK | 0 | 8 | 1 | 1 | 1:1 | 0.164 | 28.1 | |
| 3500.01 | 633334 | NR n77 PC3 (DoD) | Mid | 100 | 18.26 | Rear | DFT-s-OFDM QPSK | 0 | 8 | 1 | 1 | 1:1 | 0.488 | 21.2 | 21.2 |
| 3500.01 | 633334 | NR n77 PC3 (DoD) | Mid | 100 | 18.26 | Top | DFT-s-OFDM QPSK | 0 | 11 | 1 | 1 | 1:1 | 0.472 | 21.3 | |
| 3500.01 | 633334 | NR n77 PC3 (DoD) | Mid | 100 | 18.26 | Right | DFT-s-OFDM QPSK | 0 | 7 | 1 | 1 | 1:1 | 0.056 | 30.6 | |
| 3500.01 | 633334 | NR n77 PC3 (DoD) | Mid | 100 | 18.26 | Left | DFT-s-OFDM QPSK | 0 | 0 | 1 | 1 | 1:1 | 0.312 | 23.1 | |
| 3500.01 | 633334 | NR n77 PC3 (DoD) | Mid | 100 | 18.26 | Right Corner | DFT-s-OFDM QPSK | 0 | 8 | 1 | 1 | 1:1 | 0.101 | 28.0 | |
| 3840 | 656000 | NR n77 PC2 | Mid | 100 | 20.20 | Rear | DFT-s-OFDM QPSK | 0 | 8 | 135 | 69 | 1:1 | 0.827 | 21.0 | 21.0 |
| 3840 | 656000 | NR n77 PC2 | Mid | 100 | 20.20 | Top | DFT-s-OFDM QPSK | 0 | 11 | 135 | 69 | 1:1 | 0.757 | 21.4 | |
| 3840 | 656000 | NR n77 PC2 | Mid | 100 | 21.08 | Right | DFT-s-OFDM QPSK | 0 | 7 | 1 | 137 | 1:1 | 0.081 | 32.0 | |
| 3840 | 656000 | NR n77 PC2 | Mid | 100 | 21.08 | Left | DFT-s-OFDM QPSK | 0 | 0 | 1 | 137 | 1:1 | 0.188 | 28.3 | |
| 3840 | 656000 | NR n77 PC2 | Mid | 100 | 21.08 | Right Corner | DFT-s-OFDM QPSK | 0 | 8 | 1 | 137 | 1:1 | 0.124 | 30.1 | |
| 3840 | 656000 | NR n77 PC3 | Mid | 100 | 17.68 | Rear | DFT-s-OFDM QPSK | 0 | 8 | 135 | 69 | 1:1 | 0.525 | 20.5 | 20.5 |
| 3840 | 656000 | NR n77 PC3 | Mid | 100 | 17.68 | Top | DFT-s-OFDM QPSK | 0 | 11 | 135 | 69 | 1:1 | 0.476 | 20.9 | |
| 3840 | 656000 | NR n77 PC3 | Mid | 100 | 18.68 | Right | DFT-s-OFDM QPSK | 0 | 7 | 1 | 137 | 1:1 | 0.047 | 32.0 | |
| 3840 | 656000 | NR n77 PC3 | Mid | 100 | 18.68 | Left | DFT-s-OFDM QPSK | 0 | 0 | 1 | 137 | 1:1 | 0.144 | 27.1 | |
| 3840 | 656000 | NR n77 PC3 | Mid | 100 | 18.68 | Right Corner | DFT-s-OFDM QPSK | 0 | 8 | 1 | 137 | 1:1 | 0.075 | 29.9 | |

In the case of TDD Signal mode, Plimit was evaluated by applying the maximum transmission duty. The LTE TDD B41 (PC3) was applied 63.3%, the LTE TDD B41 (PC2) was 43.3%, and the NR TDD Band was applied 25%.

Table A-11 DSI = 1 P_{Limit} Calculations - - 3G Body SAR

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.

| MEASUREMENT RESULTS | | | | | | | | | | |
|---------------------|------|-----------|-----|--------------------------|---------------|------------------|------------|-------------------------|-----------------------------|-------------------------------------|
| Frequency | | Mode | | Conducted Power (dBm) | Test Position | Distance (mm) | Duty Cycle | Meas. SAR(1g) (W/kg) | P _{limit} (dBm) | Minimum P _{limit} (dBm) |
| Mhz | Ch. | | | | | | | | | |
| 846.6 | 4233 | UMTS 850 | RMC | 16.42 | Rear | 0 | 1:1 | 0.671 | 18.2 | 18.1 |
| 846.6 | 4233 | UMTS 850 | RMC | 16.42 | Top | 0 | 1:1 | 0.673 | 18.1 | |
| 846.6 | 4233 | UMTS 850 | RMC | 16.42 | Right | 0 | 1:1 | 0.087 | 27.0 | |
| 846.6 | 4233 | UMTS 850 | RMC | 16.42 | Right Corner | 0 | 1:1 | 0.135 | 25.1 | |
| 1712.4 | 1312 | UMTS 1700 | RMC | 13.74 | Rear | 0 | 1:1 | 0.622 | 15.8 | 15.0 |
| 1712.4 | 1312 | UMTS 1700 | RMC | 13.74 | Top | 0 | 1:1 | 0.743 | 15.0 | |
| 1712.4 | 1312 | UMTS 1700 | RMC | 13.74 | Right | 0 | 1:1 | 0.054 | 26.4 | |
| 1712.4 | 1312 | UMTS 1700 | RMC | 13.74 | Right Corner | 0 | 1:1 | 0.084 | 24.5 | |
| 1 907.6 | 9538 | UMTS 1900 | RMC | 13.68 | Rear | 0 | 1:1 | 0.799 | 14.7 | 14.7 |
| 1 880.0 | 9400 | UMTS 1900 | RMC | 13.93 | Top | 0 | 1:1 | 0.670 | 15.7 | |
| 1 880.0 | 9400 | UMTS 1900 | RMC | 13.93 | Right | 0 | 1:1 | 0.077 | 25.1 | |
| 1 880.0 | 9400 | UMTS 1900 | RMC | 13.93 | Right Corner | 0 | 1:1 | 0.141 | 22.4 | |

Table A-13 DSI = 1 P_{Limit} Calculations - - 4G Body SAR

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.

| MEASUREMENT RESULTS | | | | | | | | | | | | | | |
|---------------------|-------|-------------|-----|------------------|-----------------------|---------------|---------------|-----------|---------|-----------|------------|----------------------|--------------------------|----------------------------------|
| Frequency | | Mode | | Band width (MHz) | Conducted Power (dBm) | Test Position | Distance (mm) | MPR (dBm) | RB Size | RB offset | Duty Cycle | Meas. SAR(1g) (W/kg) | P _{limit} (dBm) | Minimum P _{limit} (dBm) |
| Mhz | Ch. | | | | | | | | | | | | | |
| 836.5 | 20525 | LTE Band 5 | Mid | 10 | 15.79 | Rear | 0 | 0 | 1 | 49 | 1:1 | 0.584 | 18.1 | 16.9 |
| 836.5 | 20525 | LTE Band 5 | Mid | 10 | 15.83 | Top | 0 | 0 | 25 | 24 | 1:1 | 0.786 | 16.9 | |
| 836.5 | 20525 | LTE Band 5 | Mid | 10 | 15.79 | Right | 0 | 0 | 1 | 49 | 1:1 | 0.052 | 28.6 | |
| 836.5 | 20525 | LTE Band 5 | Mid | 10 | 15.79 | Right Corner | 0 | 0 | 1 | 49 | 1:1 | 0.110 | 25.4 | |
| 2 510 | 20850 | LTE Band 7 | Mid | 20 | 10.45 | Rear | 0 | 0 | 50 | 0 | 1:1 | 0.763 | 11.6 | 11.6 |
| 2 560 | 21350 | LTE Band 7 | Mid | 20 | 10.61 | Top | 0 | 0 | 50 | 25 | 1:1 | 0.430 | 14.3 | |
| 2 560 | 21350 | LTE Band 7 | Mid | 20 | 10.80 | Right | 0 | 0 | 1 | 0 | 1:1 | 0.061 | 22.9 | |
| 2 560 | 21350 | LTE Band 7 | Mid | 20 | 10.80 | Right Corner | 0 | 0 | 1 | 0 | 1:1 | 0.125 | 19.8 | |
| 707.5 | 23095 | LTE Band 12 | Mid | 10 | 14.27 | Rear | 0 | 0 | 1 | 24 | 1:1 | 0.268 | 20.0 | 17.6 |
| 707.5 | 23095 | LTE Band 12 | Mid | 10 | 14.30 | Top | 0 | 0 | 25 | 24 | 1:1 | 0.468 | 17.6 | |
| 707.5 | 23095 | LTE Band 12 | Mid | 10 | 14.27 | Right | 0 | 0 | 1 | 24 | 1:1 | 0.030 | 29.5 | |
| 707.5 | 23095 | LTE Band 12 | Mid | 10 | 14.30 | Right Corner | 0 | 0 | 25 | 24 | 1:1 | 0.044 | 27.9 | |
| 782 | 23230 | LTE Band 13 | Mid | 10 | 13.73 | Rear | 0 | 0 | 25 | 12 | 1:1 | 0.295 | 19.0 | 16.7 |
| 782 | 23230 | LTE Band 13 | Mid | 10 | 13.73 | Top | 0 | 0 | 25 | 12 | 1:1 | 0.506 | 16.7 | |
| 782 | 23230 | LTE Band 13 | Mid | 10 | 13.71 | Right | 0 | 0 | 1 | 24 | 1:1 | 0.029 | 29.3 | |
| 782 | 23230 | LTE Band 13 | Mid | 10 | 13.71 | Right Corner | 0 | 0 | 1 | 24 | 1:1 | 0.044 | 27.5 | |
| 1 905 | 26140 | LTE Band 25 | Mid | 20 | 13.13 | Rear | 0 | 0 | 1 | 49 | 1:1 | 0.837 | 13.9 | 14.0 |
| 1 905 | 26140 | LTE Band 25 | Mid | 20 | 13.13 | Top | 0 | 0 | 1 | 49 | 1:1 | 0.796 | 14.1 | |
| 1 882.5 | 26365 | LTE Band 25 | Mid | 20 | 13.24 | Right | 0 | 0 | 1 | 49 | 1:1 | 0.074 | 24.5 | |
| 1 882.5 | 26365 | LTE Band 25 | Mid | 20 | 13.24 | Right Corner | 0 | 0 | 1 | 49 | 1:1 | 0.122 | 22.4 | |
| 831.5 | 26865 | LTE Band 26 | Mid | 15 | 13.52 | Rear | 0 | 0 | 36 | 39 | 1:1 | 0.348 | 18.1 | 17.5 |
| 831.5 | 26865 | LTE Band 26 | Mid | 15 | 13.52 | Top | 0 | 0 | 36 | 39 | 1:1 | 0.403 | 17.5 | |
| 831.5 | 26865 | LTE Band 26 | Mid | 15 | 13.52 | Right | 0 | 0 | 36 | 39 | 1:1 | 0.048 | 26.7 | |
| 831.5 | 26865 | LTE Band 26 | Mid | 15 | 13.52 | Right Corner | 0 | 0 | 36 | 39 | 1:1 | 0.069 | 25.1 | |
| 2 593 | 40620 | LTE Band 41 | Mid | 20 | 11.18 | Rear | 0 | 0 | 50 | 25 | 1:1.58 | 0.634 | 13.2 | 13.2 |
| 2 593 | 40620 | LTE Band 41 | Mid | 20 | 11.18 | Top | 0 | 0 | 50 | 25 | 1:1.58 | 0.415 | 15.0 | |
| 2 593 | 40620 | LTE Band 41 | Mid | 20 | 11.18 | Right | 0 | 0 | 50 | 25 | 1:1.58 | 0.041 | 25.1 | |
| 2 593 | 40620 | LTE Band 41 | Mid | 20 | 11.18 | Right Corner | 0 | 0 | 50 | 25 | 1:1.58 | 0.115 | 20.6 | |

In the case of TDD Signal mode, P_{limit} was evaluated by applying the maximum transmission duty. The LTE TDD B41 (PC3) was applied 63.3%, the LTE TDD B41 (PC2) was 43.3%, and the NR TDD Band was applied 25%.

| MEASUREMENT RESULTS | | | | | | | | | | | | | | |
|---------------------|--------|---------------------|------|------------------|-----------------------|---------------|---------------|-----------|---------|-----------|------------|----------------------|--------------|----------------------|
| Frequency | | Mode | | Band width (MHz) | Conducted Power (dBm) | Test Position | Distance (mm) | MPR (dBm) | RB Size | RB offset | Duty Cycle | Meas. SAR(1g) (W/kg) | Plimit (dBm) | Minimum Plimit (dBm) |
| Mhz | Ch. | | | | | | | | | | | | | |
| 1 720 | 132072 | LTE Band 66 | Low | 20 | 12.88 | Rear | 0 | 0 | 50 | 25 | 1:1 | 0.617 | 15.0 | 13.7 |
| 1 770 | 132572 | LTE Band 66 | High | 20 | 12.54 | Top | 0 | 0 | 50 | 25 | 1:1 | 0.765 | 13.7 | |
| 1 720 | 132072 | LTE Band 66 | Low | 20 | 12.84 | Right | 0 | 0 | 50 | 25 | 1:1 | 0.030 | 28.1 | |
| 1 720 | 132072 | LTE Band 66 | Low | 20 | 12.84 | Right Corner | 0 | 0 | 50 | 25 | 1:1 | 0.066 | 24.6 | |
| 680.5 | 133297 | LTE Band 71 | Mid | 20 | 13.78 | Rear | 0 | 0 | 50 | 49 | 1:1 | 0.458 | 17.2 | 16.4 |
| 680.5 | 133297 | LTE Band 71 | Mid | 20 | 13.77 | Top | 0 | 0 | 1 | 99 | 1:1 | 0.551 | 16.4 | |
| 680.5 | 133297 | LTE Band 71 | Mid | 20 | 13.77 | Right | 0 | 0 | 1 | 99 | 1:1 | 0.018 | 31.2 | |
| 680.5 | 133297 | LTE Band 71 | Mid | 20 | 13.77 | Right Corner | 0 | 0 | 1 | 99 | 1:1 | 0.090 | 24.2 | |
| 1 880 | 18900 | LTE Band 2 (Sub 1) | Mid | 20 | 14.11 | Rear | 0 | 0 | 1 | 0 | 1:1 | 0.940 | 14.4 | 14.4 |
| 1 880 | 18900 | LTE Band 2 (Sub 1) | Mid | 20 | 14.11 | Bottom | 0 | 0 | 50 | 49 | 1:1 | 0.829 | 14.9 | |
| 1 880 | 18900 | LTE Band 2 (Sub 1) | Mid | 20 | 14.11 | Right | 0 | 0 | 50 | 49 | 1:1 | 0.045 | 27.6 | |
| 2 560 | 21350 | LTE Band 7 (Sub 1) | High | 20 | 13.04 | Rear | 0 | 0 | 1 | 99 | 1:1 | 0.826 | 13.9 | 13.9 |
| 2 560 | 21350 | LTE Band 7 (Sub 1) | High | 20 | 13.04 | Bottom | 0 | 0 | 1 | 99 | 1:1 | 0.381 | 17.2 | |
| 2 560 | 21350 | LTE Band 7 (Sub 1) | High | 20 | 13.04 | Right | 0 | 0 | 1 | 99 | 1:1 | 0.042 | 26.8 | |
| 1 720 | 132072 | LTE Band 66 (Sub 1) | Low | 20 | 14.11 | Rear | 0 | 0 | 50 | 0 | 1:1 | 0.622 | 16.2 | 16.2 |
| 1 720 | 132072 | LTE Band 66 (Sub 1) | Low | 20 | 14.11 | Bottom | 0 | 0 | 50 | 0 | 1:1 | 0.406 | 18.1 | |
| 1 720 | 132072 | LTE Band 66 (Sub 1) | Low | 20 | 14.11 | Right | 0 | 0 | 50 | 0 | 1:1 | 0.002 | 41.1 | |

Table A-15 DSI = 1 P_{Limit} Calculations - - NR Body SAR

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation.

| MEASUREMENT RESULTS | | | | | | | | | | | | | | | |
|---------------------|--------|------------------|-----|------------------|-----------------------|---------------|-----------------|-----------|--------------|---------|-----------|------------|----------------------|--------------|----------------------|
| Frequency | | Mode | | Band width (MHz) | Conducted Power (dBm) | Test Position | | MPR (dBm) | Spacing (mm) | RB Size | RB offset | Duty Cycle | Meas. SAR(1g) (W/kg) | Plimit (dBm) | Minimum Plimit (dBm) |
| Mhz | Ch. | | | | | | | | | | | | | | |
| 836.5 | 167300 | NR Band n5 | Mid | 20 | 16.30 | Rear | DFT-s-OFDM QPSK | 0 | 0 | 50 | 56 | 1:1 | 0.537 | 19.0 | 19.0 |
| 836.5 | 167300 | NR Band n5 | Mid | 20 | 16.30 | Top | DFT-s-OFDM QPSK | 0 | 0 | 50 | 56 | 1:1 | 0.500 | 19.3 | |
| 836.5 | 167300 | NR Band n5 | Mid | 20 | 16.17 | Right | DFT-s-OFDM QPSK | 0 | 0 | 1 | 104 | 1:1 | 0.086 | 26.8 | |
| 836.5 | 167300 | NR Band n5 | Mid | 20 | 16.17 | Right Corner | DFT-s-OFDM QPSK | 0 | 0 | 1 | 104 | 1:1 | 0.119 | 25.4 | |
| 1882.5 | 376500 | NR Band n25 | Mid | 40 | 14.07 | Rear | DFT-s-OFDM QPSK | 0 | 0 | 108 | 54 | 1:1 | 0.920 | 14.4 | 14.4 |
| 1882.5 | 376500 | NR Band n25 | Mid | 40 | 14.07 | Top | DFT-s-OFDM QPSK | 0 | 0 | 108 | 54 | 1:1 | 0.630 | 16.1 | |
| 1882.5 | 376500 | NR Band n25 | Mid | 40 | 13.93 | Right | DFT-s-OFDM QPSK | 0 | 0 | 1 | 108 | 1:1 | 0.106 | 23.7 | |
| 1882.5 | 376500 | NR Band n25 | Mid | 40 | 13.93 | Right Corner | DFT-s-OFDM QPSK | 0 | 0 | 1 | 108 | 1:1 | 0.130 | 22.8 | |
| 2592.99 | 518598 | NR Band n41(PC3) | Mid | 100 | 7.76 | Rear | DFT-s-OFDM QPSK | 0 | 0 | 135 | 0 | 1:1 | 0.388 | 11.9 | 11.9 |
| 2592.99 | 518598 | NR Band n41(PC3) | Mid | 100 | 7.76 | Top | DFT-s-OFDM QPSK | 0 | 0 | 135 | 0 | 1:1 | 0.245 | 13.8 | |
| 2592.99 | 518598 | NR Band n41(PC3) | Mid | 100 | 7.74 | Right | DFT-s-OFDM QPSK | 0 | 0 | 1 | 1 | 1:1 | 0.019 | 25.0 | |
| 2592.99 | 518598 | NR Band n41(PC3) | Mid | 100 | 7.74 | Right Corner | DFT-s-OFDM QPSK | 0 | 0 | 1 | 1 | 1:1 | 0.068 | 19.4 | |
| 1745 | 349000 | NR Band n66 | Mid | 40 | 13.50 | Rear | DFT-s-OFDM QPSK | 0 | 0 | 108 | 0 | 1:1 | 0.825 | 14.3 | 14.3 |
| 1745 | 349000 | NR Band n66 | Mid | 40 | 13.50 | Top | DFT-s-OFDM QPSK | 0 | 0 | 108 | 0 | 1:1 | 0.556 | 16.0 | |
| 1745 | 349000 | NR Band n66 | Mid | 40 | 13.40 | Right | DFT-s-OFDM QPSK | 0 | 0 | 1 | 1 | 1:1 | 0.064 | 25.3 | |
| 1745 | 349000 | NR Band n66 | Mid | 40 | 13.50 | Right Corner | DFT-s-OFDM QPSK | 0 | 0 | 108 | 1 | 1:1 | 0.083 | 24.3 | |
| 680.5 | 136100 | NR Band n71 | Mid | 20 | 14.22 | Rear | DFT-s-OFDM QPSK | 0 | 0 | 50 | 28 | 1:1 | 0.433 | 17.8 | 17.8 |
| 680.5 | 136100 | NR Band n71 | Mid | 20 | 14.22 | Top | DFT-s-OFDM QPSK | 0 | 0 | 50 | 28 | 1:1 | 0.367 | 18.5 | |
| 680.5 | 136100 | NR Band n71 | Mid | 20 | 14.15 | Right | DFT-s-OFDM QPSK | 0 | 0 | 1 | 53 | 1:1 | 0.017 | 31.8 | |
| 680.5 | 136100 | NR Band n71 | Mid | 20 | 14.15 | Right Corner | DFT-s-OFDM QPSK | 0 | 0 | 1 | 53 | 1:1 | 0.024 | 30.3 | |

In the case of TDD Signal mode, Plimit was evaluated by applying the maximum transmission duty. The LTE TDD B41 (PC3) was applied 63.3%, the LTE TDD B41 (PC2) was 43.3%, and the NR TDD Band was applied 25%.

MEASUREMENT RESULTS

| Frequency | | Mode | | Band width | Conducted Power | Test Position | | MPR | Spacing | RB | RB | Duty | Meas. SAR(1g) | Plimit | Minimum Plimit |
|-----------|--------|------------------|-----|------------|-----------------|---------------|-----------------|-----|---------|-----|-----|------|---------------|--------|----------------|
| Mhz | Ch. | | | | | | | | | | | | | | |
| 3500.01 | 633334 | NR n77 PC3 (DoD) | Mid | 100 | 8.04 | Rear | DFT-s-OFDM QPSK | 0 | 0 | 135 | 0 | 1:1 | 0.495 | 11.1 | 11.1 |
| 3500.01 | 633334 | NR n77 PC3 (DoD) | Mid | 100 | 8.04 | Top | DFT-s-OFDM QPSK | 0 | 0 | 135 | 0 | 1:1 | 0.295 | 13.3 | |
| 3500.01 | 633334 | NR n77 PC3 (DoD) | Mid | 100 | 8.04 | Right | DFT-s-OFDM QPSK | 0 | 0 | 135 | 0 | 1:1 | 0.005 | 31.1 | |
| 3500.01 | 633334 | NR n77 PC3 (DoD) | Mid | 100 | 8.04 | Right Corner | DFT-s-OFDM QPSK | 0 | 0 | 135 | 0 | 1:1 | 0.014 | 26.6 | |
| 3500.01 | 633334 | NR n77 PC3 | Mid | 100 | 7.54 | Rear | DFT-s-OFDM QPSK | 0 | 0 | 1 | 137 | 1:1 | 0.513 | 10.4 | 10.4 |
| 3500.01 | 633334 | NR n77 PC3 | Mid | 100 | 8.12 | Top | DFT-s-OFDM QPSK | 0 | 0 | 135 | 138 | 1:1 | 0.286 | 13.6 | |
| 3500.01 | 633334 | NR n77 PC3 | Mid | 100 | 8.12 | Right | DFT-s-OFDM QPSK | 0 | 0 | 135 | 138 | 1:1 | 0.003 | 33.3 | |
| 3500.01 | 633334 | NR n77 PC3 | Mid | 100 | 8.12 | Right Corner | DFT-s-OFDM QPSK | 0 | 0 | 135 | 138 | 1:1 | 0.005 | 31.1 | |

In the case of TDD Signal mode, Plimit was evaluated by applying the maximum transmission duty. The LTE TDD B41 (PC3) was applied 63.3%, the LTE TDD B41 (PC2) was 43.3%, and the NR TDD Band was applied 25%.