





TEST REPORT

| | | |
|--|---|---|
| <p>Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311 www.kctl.co.kr</p> | <p>Report No.: KR23-SPF0039-A Page (1) of (575)</p> |   |
|--|---|---|

1. Client

- Name : Samsung Electronics Co., Ltd.
- Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
- Date of Receipt : 2023-08-24

2. Use of Report : Certification

- 3. Name of Product and Model** : Tablet PC
- Model Name : SM-X306B
 - Manufacturer and Country of Origin : Samsung Electronics Co., Ltd. / Korea

4. FCC ID : A3LSMX306B

5. Date of Test : 2023-09-19 ~ 2023-11-07

6. Location of Test : Permanent Testing Lab On Site Testing
 (Address: 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea)

7. Test Standards : IEEE 1528-2013, ANSI/IEEE C95.1, KDB Publication

8. Test Results : Refer to the test result in the test report

| | | |
|-------------|--------------------------------|-------------------------------|
| Affirmation | Tested by | Technical Manager |
| | Name : Mungi Jeong (Signature) | Name : Jongwon Ma (Signature) |

2023-11-21

Eurofins KCTL Co.,Ltd.

As a test result of the sample which was submitted from the client, this report does not guarantee the whole product quality. This test report should not be used and copied without a written agreement by Eurofins KCTL Co.,Ltd.

REPORT REVISION HISTORY

| Date | Revision | Page No |
|------------|---|---------------------------|
| 2023-11-08 | Originally issued | - |
| 2023-11-21 | Updated -Basic description - Digitizer Mode -SAR Test Exclusion Considerations - U-NII Tune-up Power -5G NR Information - 5G NR n66 5 MHz High Frequency and Channel | - 5 11,12,165 19 |
| | | |
| | | |
| | | |

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General remarks for test reports

Statement concerning the uncertainty of the measurement systems used for the tests

(may be required by the product standard or client)

Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:

Procedure number, issue date and title:



Calculations leading to the reported values are on file with the testing laboratory that conducted the testing.

Statement not required by the standard or client used for type testing

1. Identification when information is provided by the customer: Information marked " # " is provided by the customer. - Disclaimer: This information is provided by the customer and can affect the validity of results.

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| <p>Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311 www.kctl.co.kr</p> | <p>Report No.: KR23-SPF0039-A Page (4) of (575)</p> |   |
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1. General information

Client : Samsung Electronics Co., Ltd.
Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
Manufacturer : Samsung Electronics Co., Ltd.
Address : 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
Factory : Samsung Electronics Vietnam Thai Nguyen Co., Ltd
Address : Yen Binh Industrial Park, Dong Tien Ward, Pho Yen Town, Thai Nguyen Province, Vietnam
Laboratory : Eurofins KCTL Co.,Ltd.
Address : 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea
Accreditations : FCC Site Designation No: KR0040, FCC Site Registration No: 687132
VCCI Registration No. : R-3327, G-198, C-3706, T-1849
CAB Identifier: KR0040, ISED Number: 8035A
KOLAS No.: KT231

1.1 Report Overview

This report details the results of testing carried out on the samples listed in section 2, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this test report is used in any configuration other than that detailed in the test report, the manufacturer must ensure the new configuration complies with all relevant standards and certification requirements. Any mention of Eurofins KCTL Co.,Ltd. Wireless lab or testing done by Eurofins KCTL Co.,Ltd. Wireless lab made in connection with the distribution or use of the tested product must be approved in writing by Eurofins KCTL Co.,Ltd. Wireless lab.

2. Device information

2.1 Basic description

| | | | | |
|-----------------------|------------|--|-----------------|--------------------|
| Product Name | | Tablet PC | | |
| Product Model Name | | SM-X306B | | |
| Product Manufacturer | | Samsung Electronics Co., Ltd. | | |
| Product Serial Number | Radiation | R32W80019DT, R32W80014LF R32W800125W, R32W80015QK | | |
| | Conduction | R32W800129L, R32W80011PV | | |
| Device Overview | | Band & Mode | Operating Modes | Tx Frequency (MHz) |
| | | GSM/GPRS/EDGE 850 | Voice/Data | 824.2 ~ 848.8 |
| | | GSM/GPRS/EDGE 1900 | Voice/Data | 1 850.2 ~ 1 909.8 |
| | | WCDMA Band II | Voice/Data | 1 852.4 ~ 1 907.6 |
| | | WCDMA Band IV | Voice/Data | 1 712.4 ~ 1 752.6 |
| | | WCDMA Band V | Voice/Data | 826.4 ~ 846.6 |
| | | LTE Band 2 | Voice/Data | 1 850.7 ~ 1 909.3 |
| | | LTE Band 4 | Voice/Data | 1 710.7 ~ 1 754.3 |
| | | LTE Band 5 | Voice/Data | 824.7 ~ 848.3 |
| | | LTE Band 12 | Voice/Data | 699.7 ~ 715.3 |
| | | LTE Band 13 | Voice/Data | 779.5 ~ 784.5 |
| | | LTE Band 17 | Voice/Data | 706.5 ~ 713.5 |
| | | LTE Band 26 | Voice/Data | 814.7 ~ 848.3 |
| | | LTE Band 41 | Voice/Data | 2 498.5 ~ 2 687.5 |
| | | LTE Band 66 | Voice/Data | 1 710.7 ~ 1 779.3 |
| | | NR Band n5 | Voice/Data | 826.5 ~ 846.5 |
| | | NR Band n66 | Voice/Data | 1 712.5 ~ 1 777.5 |
| | | 2.4 GHz WLAN | Voice/Data | 2 412.0 ~ 2 472.0 |
| | | U-NII-1 | Voice/Data | 5 180.0 ~ 5 240.0 |
| | | U-NII-2A | Voice/Data | 5 260.0 ~ 5 320.0 |
| | | U-NII-2C | Voice/Data | 5 500.0 ~ 5 720.0 |
| U-NII-3 | Voice/Data | 5 745.0 ~ 5 825.0 | | |
| Bluetooth | Data | 2 402.0 ~ 2 480.0 | | |
| NFC | Data | 13.56 | | |
| Digitizer | Data | 0.53125 ~ 0.59375 | | |
| TDWR Information | | 5.60 GHz~ 5.65 GHz band (TDWR) is supported by the device. | | |

2.2 Summary of SAR Test Results

| Band | Ant. | Equipment Class | Highest Reported | |
|---|-------|-----------------|--------------------|--------------------|
| | | | Head 1g SAR (W/kg) | Body 1g SAR (W/kg) |
| GSM/GPRS/EDGE 850 | | PCB | 0.24 | 0.55 |
| GSM/GPRS/EDGE 1900 | | PCB | 0.24 | 0.63 |
| WCDMA Band II | | PCB | 0.34 | 0.73 |
| WCDMA Band IV | | PCB | 0.27 | 0.76 |
| WCDMA Band V | | PCB | 0.33 | 0.51 |
| LTE Band 2 | Main1 | PCB | 0.30 | 0.58 |
| | Sub1 | PCB | < 0.10 | 0.55 |
| LTE Band 4 | | PCB | N/A | N/A |
| LTE Band 5 | | PCB | 0.38 | 0.58 |
| LTE Band 12 | | PCB | 0.36 | 0.44 |
| LTE Band 13 | | PCB | 0.38 | 0.48 |
| LTE Band 17 | | PCB | N/A | N/A |
| LTE Band 26 | | PCB | 0.40 | 0.60 |
| LTE Band 41 | | PCB | 0.16 | 0.73 |
| LTE Band 66 | | PCB | 0.14 | 0.72 |
| NR Band n5 | | PCB | 0.40 | 0.58 |
| NR Band n66 | | PCB | 0.29 | 0.72 |
| WLAN 2.4 GHz | | DTS | 0.19 | 1.14 |
| U-NII-2A | | NII | < 0.10 | 0.75 |
| U-NII-2C | | NII | 0.25 | 1.09 |
| U-NII-3 | | NII | 0.29 | 1.17 |
| Bluetooth | | DSS | < 0.10 | 0.86 |
| Simultaneous SAR per KDB 690783 D01v01r03 | | | 0.86 | 1.59 |

2.3 #Antenna information

| Antenna Type | | LDS antenna | | | | | | | | | | | | | | | |
|-----------------|-------|-------------|------|-------|-----|------|-----|-----|------|------|------|------|------|------|-----|------|-----|
| Band | | GSM | | WCDMA | | | LTE | | | | | | | | | NR | |
| | | 850 | 1900 | II | IV | V | 2 | 4 | 5 | 12 | 13 | 17 | 26 | 41 | 66 | n5 | N66 |
| Peak gain (dBi) | Main1 | -7.4 | 0.3 | 0.3 | 0.4 | -7.4 | 0.3 | 0.4 | -7.4 | -1.4 | -5.1 | -1.4 | -5.7 | - | 0.4 | -7.4 | 0.4 |
| | Main2 | - | - | - | - | - | - | - | - | - | - | - | - | -0.6 | - | - | - |
| | Sub1 | - | - | - | - | - | 2.4 | - | - | - | - | - | - | - | - | - | - |

| Antenna Type | | LDS Antenna | | | | |
|-----------------|-------|--------------------------|--------|---------|---------|--------|
| Band | | WLAN 2.4 GHz / Bluetooth | UNII-1 | UNII-2A | UNII-2C | UNII-3 |
| Peak gain (dBi) | WIFI1 | -4.0 | -4.5 | -4.7 | -4.5 | -4.5 |
| | WIFI2 | -4.5 | -4.0 | -4.4 | -5.0 | -4.4 |

2.4 Power Reduction for SAR

This device uses an independent fixed level power reduction mechanism for WWAN / WLAN operations during 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.

This device utilizes a power reduction mechanism for wireless modes and bands for SAR compliance under some conditions when the device is being used in close proximity to the user's hand. FCC KDB Publication 616217 D04v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device when being used in Tablet use conditions. Detailed descriptions of the power reduction mechanism are included in the operational description.

2.5 #Maximum Tune-up power

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.

When the specified maximum output power is the same for both UNII Band1 and UNII Band 2A, begins SAR measurement in UNII band 2A; and if the highest reported SAR for U NII band 2A is ≤ 1.2W/kg, SAR is not required for U-NII-1 band for that configuration; otherwise, each band is tested independently for SAR.

2.5.1 #Maximum Output Power

| Band | Mode | Output Power(dBm) | | | |
|-------------|------------|-------------------|--------------|--------------------------------|--------------|
| | | Normal, P_{max} | | Back-off (RCV, Grip Sensor) | |
| | | Target | Max. Allowed | Target | Max. Allowed |
| GSM 850 | GSM Voice | 32.50 | 33.50 | 23.00 | 24.00 |
| | GPRS 1 TX | 32.50 | 33.50 | 23.00 | 24.00 |
| | GPRS 2 TX | 31.00 | 32.00 | 21.00 | 22.00 |
| | GPRS 3 TX | 29.80 | 30.80 | 19.50 | 20.50 |
| | GPRS 4 TX | 28.60 | 29.60 | 18.50 | 19.50 |
| | EGPRS 1 TX | 26.50 | 27.50 | 17.00 | 18.00 |
| | EGPRS 2 TX | 24.50 | 25.50 | 15.00 | 16.00 |
| | EGPRS 3 TX | 23.30 | 24.30 | 13.50 | 14.50 |
| GSM 1900 | EGPRS 4 TX | 22.00 | 23.00 | 12.50 | 13.50 |
| | GSM Voice | 29.50 | 30.50 | 20.00 | 21.00 |
| | GPRS 1 TX | 29.50 | 30.50 | 20.00 | 21.00 |
| | GPRS 2 TX | 28.50 | 29.50 | 18.50 | 19.50 |
| | GPRS 3 TX | 27.50 | 28.50 | 17.50 | 18.50 |
| | GPRS 4 TX | 26.50 | 27.50 | 16.50 | 17.50 |
| | EGPRS 1 TX | 25.50 | 26.50 | 16.00 | 17.00 |
| | EGPRS 2 TX | 23.50 | 24.50 | 14.00 | 15.00 |
| | EGPRS 3 TX | 22.30 | 23.30 | 12.50 | 13.50 |
| | EGPRS 4 TX | 21.00 | 22.00 | 11.50 | 12.50 |

| Band | Mode | | Output Power(dBm) | | | |
|----------|----------|-----------|-------------------|--------------|--------------------------------|--------------|
| | | | Normal, P_{max} | | Back-off (RCV, Grip Sensor) | |
| | | | Target | Max. Allowed | Target | Max. Allowed |
| WCDMA II | RMC | | 23.50 | 24.50 | 14.00 | 15.00 |
| | AMR | | 23.50 | 24.50 | 14.00 | 15.00 |
| | HSDPA | Subtest-1 | 22.50 | 23.50 | 13.00 | 14.00 |
| | | Subtest-2 | 22.50 | 23.50 | 13.00 | 14.00 |
| | | Subtest-3 | 22.00 | 23.00 | 13.00 | 14.00 |
| | | Subtest-4 | 22.00 | 23.00 | 13.00 | 14.00 |
| | HSUPA | Subtest-1 | 22.50 | 23.50 | 13.00 | 14.00 |
| | | Subtest-2 | 20.50 | 21.50 | 13.00 | 14.00 |
| | | Subtest-3 | 21.50 | 22.50 | 13.00 | 14.00 |
| | | Subtest-4 | 20.50 | 21.50 | 13.00 | 14.00 |
| | | Subtest-5 | 22.50 | 23.50 | 13.00 | 14.00 |
| | DC-HSDPA | Subtest-1 | 22.50 | 23.50 | 13.00 | 14.00 |
| | | Subtest-2 | 22.50 | 23.50 | 13.00 | 14.00 |
| | | Subtest-3 | 22.00 | 23.00 | 13.00 | 14.00 |
| | | Subtest-4 | 22.00 | 23.00 | 13.00 | 14.00 |
| | WCDMA IV | RMC | | 23.50 | 24.50 | 14.00 |
| AMR | | 23.50 | 24.50 | 14.00 | 15.00 | |
| HSDPA | | Subtest-1 | 22.50 | 23.50 | 13.00 | 14.00 |
| | | Subtest-2 | 22.50 | 23.50 | 13.00 | 14.00 |
| | | Subtest-3 | 22.00 | 23.00 | 13.00 | 14.00 |
| | | Subtest-4 | 22.00 | 23.00 | 13.00 | 14.00 |
| HSUPA | | Subtest-1 | 22.50 | 23.50 | 13.00 | 14.00 |
| | | Subtest-2 | 20.50 | 21.50 | 13.00 | 14.00 |
| | | Subtest-3 | 21.50 | 22.50 | 13.00 | 14.00 |
| | | Subtest-4 | 20.50 | 21.50 | 13.00 | 14.00 |
| | | Subtest-5 | 22.50 | 23.50 | 13.00 | 14.00 |
| DC-HSDPA | | Subtest-1 | 22.50 | 23.50 | 13.00 | 14.00 |
| | | Subtest-2 | 22.50 | 23.50 | 13.00 | 14.00 |
| | | Subtest-3 | 22.00 | 23.00 | 13.00 | 14.00 |
| | | Subtest-4 | 22.00 | 23.00 | 13.00 | 14.00 |
| WCDMA V | | RMC | | 23.50 | 24.50 | 17.00 |
| | AMR | | 23.50 | 24.50 | 17.00 | 18.00 |
| | HSDPA | Subtest-1 | 22.50 | 23.50 | 16.00 | 17.00 |
| | | Subtest-2 | 22.50 | 23.50 | 16.00 | 17.00 |
| | | Subtest-3 | 22.00 | 23.00 | 16.00 | 17.00 |
| | | Subtest-4 | 22.00 | 23.00 | 16.00 | 17.00 |
| | HSUPA | Subtest-1 | 22.50 | 23.50 | 16.00 | 17.00 |
| | | Subtest-2 | 20.50 | 21.50 | 16.00 | 17.00 |
| | | Subtest-3 | 21.50 | 22.50 | 16.00 | 17.00 |
| | | Subtest-4 | 20.50 | 21.50 | 16.00 | 17.00 |
| | | Subtest-5 | 22.50 | 23.50 | 16.00 | 17.00 |
| | DC-HSDPA | Subtest-1 | 22.50 | 23.50 | 16.00 | 17.00 |
| | | Subtest-2 | 22.50 | 23.50 | 16.00 | 17.00 |
| | | Subtest-3 | 22.00 | 23.00 | 16.00 | 17.00 |
| | | Subtest-4 | 22.00 | 23.00 | 16.00 | 17.00 |

| Band | | Output Power(dBm) | | | |
|-------|-------------------|-------------------|--------------|--------------------------------|--------------|
| | | Normal, P_{max} | | Back-off (RCV, Grip Sensor) | |
| | | Target | Max. Allowed | Target | Max. Allowed |
| LTE | 2(Main1) | 24.00 | 25.00 | 14.00 | 15.00 |
| | 2(Sub1) | 24.00 | 25.00 | 14.00 | 15.00 |
| | *4 | 24.50 | 25.50 | 12.00 | 13.00 |
| | 5 | 24.00 | 25.00 | 17.00 | 18.00 |
| | 12 | 24.50 | 25.50 | 16.00 | 17.00 |
| | 13 | 24.00 | 25.00 | 16.00 | 17.00 |
| | *17 | 24.50 | 25.50 | 16.00 | 17.00 |
| | 26 | 24.00 | 25.00 | 17.00 | 18.00 |
| | 41(Power Class 2) | 26.00 | 27.00 | 11.00 | 12.00 |
| | 41(Power Class 3) | 24.00 | 25.00 | 11.00 | 12.00 |
| | 66 | 24.50 | 25.50 | 12.00 | 13.00 |
| 5G NR | n5 | 24.00 | 25.00 | 17.00 | 18.00 |
| | n66 | 24.00 | 25.00 | 12.00 | 13.00 |

Notes:

***LTE Band 4 Measured Results (Normal & Back-off)**

SAR for LTE Band 4 (Frequency range: 1 710.7 ~ 1 754.3 MHz) is covered by LTE Band 66 (Frequency range: 1 710.7 ~ 1 779.3 MHz) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth.

***LTE Band 17 Measured Results (Normal & Back-off)**

SAR for LTE Band 17 (Frequency range: 706.5 ~ 713.5 MHz) is covered by LTE Band 12 (Frequency range: 699.7 ~ 715.3 MHz) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth.

| Band | Ant. | Mode | Channel | Output Power(dBm) | | | | |
|---|---|---|---------------------------------|-------------------|--------------|-----------------------------|--------------|-------------|
| | | | | Normal, P_{max} | | Back-off (RCV, Grip Sensor) | | |
| | | | | Target | Max. Allowed | Target | Max. Allowed | |
| WLAN 2.4 GHz | Ant.1/ MIMO (Ant.1,Ant.2) | 802.11b | Except Ch. | 17.50 | 18.50 | 9.50 | 10.50 | |
| | | | 11 | 16.00 | 17.00 | | | |
| | | | 12 | 5.00 | 6.00 | N/A | | |
| | | 13 | -2.00 | -1.00 | | | | |
| | | 802.11g/ 802.11n(HT20)/ 802.11ax (SU 20 MHz) | Except Ch. | 17.00 | 18.00 | 9.00 | 10.00 | |
| | | | 11 | 15.00 | 16.00 | | | |
| | | | 12 | 5.00 | 6.00 | N/A | | |
| | | 13 | -2.00 | -1.00 | | | | |
| | | U-NII-1, U-NII-2A, U-NII-2C | Ant.2/ MIMO (Ant.1,Ant.2) | 802.11a | Except Ch. | 16.00 | 17.00 | 5.50 |
| 140 | 11.00 | | | | 12.00 | | | |
| 144 | 14.50 | | | | 15.50 | | | |
| 802.11n(HT20)/ 802.11ac(VHT20)/ 802.11ax(SU 20 MHz) | Except Ch. | | | 15.00 | 16.00 | 5.00 | 6.00 | |
| | 140 | | | 10.00 | 11.00 | | | |
| | 144 | | | 13.50 | 14.50 | | | |
| 802.11n(HT40)/ 802.11ac(VHT40)/ 802.11ax(SU 40 MHz) | ALL | | | 13.00 | 14.00 | 5.00 | 6.00 | |
| | 802.11ac(VHT80)/ 802.11ax(SU 80 MHz) | | | ALL | 12.00 | 13.00 | 5.00 | 6.00 |
| | | | | ALL | 12.00 | 13.00 | 5.00 | 6.00 |
| U-NII-3 | Ant.2/ MIMO (Ant.1,Ant.2) | 802.11a | ALL | 14.50 | 15.50 | 5.50 | 6.50 | |
| | | 802.11g/ 802.11n(HT20)/ 802.11ax (SU 20 MHz) | ALL | 13.50 | 14.50 | 5.00 | 6.00 | |
| | | 802.11n(HT40)/ 802.11ac(VHT40)/ 802.11ax(SU 40 MHz) | ALL | 13.00 | 14.00 | 5.00 | 6.00 | |
| | | 802.11ac(VHT80)/ 802.11ax(SU 80 MHz) | ALL | 12.00 | 13.00 | 5.00 | 6.00 | |
| | | BDR(GFSK) | All Channel | 15.50 | 16.50 | 11.00 | 12.00 | |
| | | EDR ($\pi/4$ DQPSK) | All Channel | 11.00 | 12.00 | 11.00 | 12.00 | |
| Bluetooth | | EDR(8DPSK) | All Channel | 11.00 | 12.00 | 11.00 | 12.00 | |
| | | LE(GFSK) 1/2 Mbps | Except Ch. | 15.00 | 16.00 | 11.00 | 12.00 | |
| | | 125/500 Kbps | 39 | 13.00 | 14.00 | 9.00 | 10.00 | |

Note:

- 1) WLAN 2.4 GHz only supports Ant.1 in SISO mode.
- 2) WLAN 5 GHz only supports Ant.2 in SISO mode.

2.6 SAR Test Configurations

2.6.1 #DUT Antenna Locations

The overall dimensions of this device are > 20 cm. A diagram showing the location of the device antennas. Please refer to Appendix E.

2.6.2 SAR Test Exclusion Considerations

2.6.2.1 Maximum Tune-up Power

| Ant. | Band | Frequency (MHz) | Output power | | Separation distances [mm] | | | | | SAR Exemption | | | | |
|-----------|-----------|-----------------|--------------|---------------|---------------------------|---------------|---------------|---------------|------|----------------|---------------|---------------|----------------|---------------|
| | | | dBm | mW | Rear | Left | Right | Top | Bot. | Rear | Left Edge | Right Edge | Top | Bot. |
| Main1 | GSM850 | 848.8 | 24.47 | 280 | 5 | 90 | 12 | 5 | 193 | 51.59 Measure | 386mW EXEMPT | 21.50 Measure | 51.59 Measure | 974mW EXEMPT |
| | GSM1900 | 1909.8 | 21.47 | 140 | | | | | | 38.69 Measure | 504mW EXEMPT | 16.12 Measure | 38.69 Measure | 1543mW EXEMPT |
| | WCDMA B2 | 1907.6 | 24.50 | 282 | | | | | | 77.90 Measure | 504mW EXEMPT | 32.46 Measure | 77.90 Measure | 1543mW EXEMPT |
| | WCDMA B4 | 1752.6 | 24.50 | 282 | | | | | | 74.67 Measure | 508mW EXEMPT | 31.11 Measure | 74.67 Measure | 1547mW EXEMPT |
| | WCDMA B5 | 846.6 | 24.50 | 282 | | | | | | 51.89 Measure | 386mW EXEMPT | 21.62 Measure | 51.89 Measure | 972mW EXEMPT |
| | LTE B2 | 1909.3 | 25.00 | 316 | | | | | | 3 mW Measure | 692 EXEMPT | 17 mW Measure | 3 mW Measure | 2876 EXEMPT |
| | LTE B5 | 848.3 | 25.00 | 316 | | | | | | 58.21 Measure | 386mW EXEMPT | 24.25 Measure | 58.21 Measure | 974mW EXEMPT |
| | LTE B12 | 715.3 | 25.50 | 355 | | | | | | 60.05 Measure | 366mW EXEMPT | 25.02 Measure | 60.05 Measure | 861mW EXEMPT |
| | LTE B13 | 784.5 | 25.00 | 316 | | | | | | 55.98 Measure | 376mW EXEMPT | 23.32 Measure | 55.98 Measure | 919mW EXEMPT |
| | LTE B26 | 848.3 | 25.00 | 316 | | | | | | 58.21 Measure | 386mW EXEMPT | 24.25 Measure | 58.21 Measure | 974mW EXEMPT |
| | LTE B66 | 1779.3 | 25.50 | 355 | | | | | | 94.71 Measure | 507mW EXEMPT | 39.46 Measure | 94.71 Measure | 1546mW EXEMPT |
| | 5G NR n5 | 846.5 | 25.00 | 316 | | | | | | 65.32 Measure | 386mW EXEMPT | 27.22 Measure | 65.32 Measure | 972mW EXEMPT |
| 5G NR n66 | 1777.5 | 25.00 | 316 | 94.66 Measure | 508mW EXEMPT | 39.44 Measure | 94.66 Measure | 1547mW EXEMPT | | | | | | |
| Sub1 | LTE B2 | 1909.3 | 25.00 | 316 | 5 | 92 | 12 | 193 | 5 | 87.33 Measure | 532mW EXEMPT | 36.39 Measure | 1537mW EXEMPT | 87.33 Measure |
| Main2 | LTE B41 | 2687.5 | 25.00 | 316 | 5 | 74 | 38 | 5 | 194 | 103.61 Measure | 333mW EXEMPT | 13.63 Measure | 103.61 Measure | 1526mW EXEMPT |
| WIF1 | 2.4 GHz | 2462 | 18.50 | 71 | 5 | 5 | 113 | 16 | 196 | 22.28 Measure | 22.28 Measure | 722mW EXEMPT | 6.96 Measure | 1560mW EXEMPT |
| | U-NII-2A | 5320 | 17.00 | 50 | | | | | | 23.07 Measure | 23.07 Measure | 692mW EXEMPT | 7.21 Measure | 1530mW EXEMPT |
| | U-NII-2C | 5720 | 17.00 | 50 | | | | | | 23.92 Measure | 23.92 Measure | 689mW EXEMPT | 7.47 Measure | 1527mW EXEMPT |
| | U-NII-3 | 5825 | 15.50 | 35 | | | | | | 16.89 Measure | 16.89 Measure | 689mW EXEMPT | 5.28 Measure | 1527mW EXEMPT |
| | Bluetooth | 2480 | 16.50 | 45 | | | | | | 14.17 Measure | 14.17 Measure | 722mW EXEMPT | 4.43 Measure | 1560mW EXEMPT |
| WIF2 | 2.4 GHz | 2462 | 18.50 | 71 | 5 | 24 | 89 | 5 | 197 | 22.28 Measure | 4.64 Measure | 482mW EXEMPT | 22.28 Measure | 1571mW EXEMPT |
| | U-NII-2A | 5320 | 17.00 | 50 | | | | | | 23.07 Measure | 4.81 Measure | 452mW EXEMPT | 23.07 Measure | 1540mW EXEMPT |
| | U-NII-2C | 5720 | 17.00 | 50 | | | | | | 23.92 Measure | 4.98 Measure | 450mW EXEMPT | 23.92 Measure | 1538mW EXEMPT |
| | U-NII-3 | 5825 | 15.50 | 35 | | | | | | 16.89 Measure | 3.52 Measure | 449mW EXEMPT | 16.89 Measure | 1537mW EXEMPT |

Note 1: For distances < 5mm, a distance of 5mm is used to determine SAR exclusion and estimated SAR value.

Note 2: Output power is the maximum rated power (including tune-up or manufacturing tolerances) and includes source-based averaging.

Note 3: If the antenna separation distance is > 50mm then the value listed is the output power threshold, above which SAR measurement is required. For separation <= 50mm the value is the KDB 447498 calculated value and must be less than 3.0 for SAR exemption.

Note 4: Formulas round separation distance to nearest mm and power to nearest mW before calculating thresholds or exemption values.

Note 5: In the case of GSM mode, it was Calculated by applying frame power for SAR test conditions.

SAR Test Exclusion (Maximum Output Power)

| Ant. | Band | SAR Exemption | | | | |
|-------|------------------|---------------|-----------|------------|-----|----------|
| | | Rear | Left Edge | Right Edge | Top | Bottom |
| Main1 | GSM850 (Frame) | Yes | No | Yes | Yes | No |
| | GSM1900 (Frame) | Yes | No | Yes | Yes | No |
| | WCDMA II | Yes | No | Yes | Yes | No |
| | WCDMA IV | Yes | No | Yes | Yes | No |
| | WCDMA V | Yes | No | Yes | Yes | No |
| | LTE Band 2 | Yes | No | Yes | Yes | No |
| | LTE Band 5 | Yes | No | Yes | Yes | No |
| | LTE Band 12 | Yes | No | Yes | Yes | No |
| | LTE Band 13 | Yes | No | Yes | Yes | No |
| | LTE Band 26 | Yes | No | Yes | Yes | No |
| | LTE Band 66 | Yes | No | Yes | Yes | No |
| | 5G NR n5 | Yes | No | Yes | Yes | No |
| | 5G NR n66 | Yes | No | Yes | Yes | No |
| Sub1 | LTE Band 2 | Yes | No | Yes | No | Yes |
| Main2 | LTE Band 41(PC3) | Yes | No | Yes | Yes | No |
| WIFI1 | 2.4 GHz | Yes | Yes | Note)Yes | Yes | No |
| | U-NII-2A | Yes | Yes | No | Yes | No |
| | U-NII-2C | Yes | Yes | No | Yes | No |
| | U-NII-3 | Yes | Yes | No | Yes | No |
| | Bluetooth | Yes | Yes | Note)Yes | Yes | Note)Yes |
| WIFI2 | 2.4 GHz | Yes | Yes | No | Yes | No |
| | U-NII-2A | Yes | Yes | Note)Yes | Yes | No |
| | U-NII-2C | Yes | Yes | Note)Yes | Yes | No |
| | U-NII-3 | Yes | Yes | Note)Yes | Yes | No |

Note: Additional testing required in order satisfying FCC simultaneous transmission limit criteria.

2.6.2.2 Reduced Tune-up Power

| Ant. | Band | Frequency (MHz) | Output power | | Separation distances [mm] | | | | | SAR Exemption | | | | |
|-------|-----------|-----------------|--------------|-----|---------------------------|------|-------|-----|------|---------------|--------------------|--------------------|--------------------|--------------------|
| | | | dBm | mW | Rear | Left | Right | Top | Bot. | Rear | Left Edge | Right Edge | Top | Bot. |
| Main1 | GSM850 | 848.8 | 24.00 | 251 | 5 | 90 | 12 | 5 | 193 | 46.25 Measure | Non-Power-Back-off | 19.27 Measure | 46.25 Measure | Non-Power-Back-off |
| | GSM1900 | 1909.8 | 21.00 | 126 | | | | | | 34.83 Measure | | 14.51 Measure | 34.83 Measure | |
| | WCDMA B2 | 1907.6 | 15.00 | 32 | | | | | | 8.84 Measure | | 3.68 Measure | 8.84 Measure | |
| | WCDMA B4 | 1752.6 | 15.00 | 32 | | | | | | 8.47 Measure | | 3.53 Measure | 8.47 Measure | |
| | WCDMA B5 | 846.6 | 18.00 | 63 | | | | | | 11.59 Measure | | 4.83 Measure | 11.59 Measure | |
| | LTE B2 | 1909.3 | 15.00 | 32 | | | | | | 8.84 Measure | | 3.68 Measure | 8.84 Measure | |
| | LTE B5 | 848.3 | 18.00 | 63 | | | | | | 11.61 Measure | | 4.84 Measure | 11.61 Measure | |
| | LTE B12 | 715.3 | 17.00 | 50 | | | | | | 8.46 Measure | | 3.52 Measure | 8.46 Measure | |
| | LTE B13 | 784.5 | 17.00 | 50 | | | | | | 8.86 Measure | | 3.69 Measure | 8.86 Measure | |
| | LTE B26 | 848.3 | 18.00 | 63 | | | | | | 11.61 Measure | | 4.84 Measure | 11.61 Measure | |
| | LTE B66 | 1779.3 | 13.00 | 20 | | | | | | 5.34 Measure | | 2.22 EXEMPT | 5.34 Measure | |
| | 5G NR n5 | 846.5 | 18.00 | 63 | | | | | | 11.59 Measure | | 4.83 Measure | 11.59 Measure | |
| | 5G NR n66 | 1777.5 | 13.00 | 20 | | | | | | 5.33 Measure | | 2.22 EXEMPT | 5.33 Measure | |
| Sub1 | LTE B2 | 1909.3 | 15.00 | 32 | 5 | 92 | 12 | 193 | 5 | 8.84 Measure | Non-Power-Back-off | 3.68 Measure | Non-Power-Back-off | 8.84 Measure |
| Main2 | LTE B41 | 1907.5 | 12.00 | 16 | 5 | 74 | 38 | 5 | 194 | 5.25 Measure | Non-Power-Back-off | Non-Power-Back-off | 5.25 Measure | Non-Power-Back-off |
| WIFI1 | 2.4 GHz | 2462 | 10.50 | 11 | 5 | 5 | 113 | 16 | 196 | 3.45 Measure | 3.45 Measure | Non-Power-Back-off | Non-Power-Back-off | Non-Power-Back-off |
| | U-NII-2A | 5320 | 6.50 | 4 | | | | | | 1.85 EXEMPT | 1.85 EXEMPT | | | |
| | U-NII-2C | 5720 | 6.50 | 4 | | | | | | 1.91 EXEMPT | 1.91 EXEMPT | | | |
| | U-NII-3 | 5825 | 6.50 | 4 | | | | | | 1.93 EXEMPT | 1.93 EXEMPT | | | |
| | Bluetooth | 2480 | 12.00 | 16 | | | | | | 5.04 Measure | 5.04 Measure | | | |
| WIFI2 | 2.4 GHz | 2462 | 10.50 | 11 | 5 | 24 | 89 | 5 | 197 | 3.45 Measure | Non-Power-Back-off | Non-Power-Back-off | 3.45 Measure | Non-Power-Back-off |
| | U-NII-2A | 5320 | 6.50 | 4 | | | | | | 1.85 EXEMPT | | | 1.85 EXEMPT | |
| | U-NII-2C | 5720 | 6.50 | 4 | | | | | | 1.91 EXEMPT | | | 1.91 EXEMPT | |
| | U-NII-3 | 5825 | 6.50 | 4 | | | | | | 1.93 EXEMPT | | | 1.93 EXEMPT | |

Note 1: For distances < 5mm, a distance of 5mm is used to determine SAR exclusion and estimated SAR value.
Note 2: Output power is the maximum rated power (including tune-up or manufacturing tolerances) and includes source-based averaging.
Note 3: If the antenna separation distance is > 50mm then the value listed is the output power threshold, above which SAR measurement is required. For separation <= 50mm the value is the KDB 447498 calculated value and must be less than 3.0 for SAR exemption.
Note 4: Formulas round separation distance to nearest mm and power to nearest mW before calculating thresholds or exemption values.
Note 5: Non-power back-off means Grip Sensor is not applied.

SAR Test Exclusion (Reduced Output Power)

| Ant. | Band | SAR Exemption | | | | |
|-----------|-------------------|---------------|--------------------|--------------------|--------------------|--------------------|
| | | Rear | Left Edge | Right Edge | Top | Bottom |
| Main1 | GSM850 (Frame) | Yes | Non-Power-Back-off | Yes | Yes | Non-Power-Back-off |
| | GSM1900 (Frame) | Yes | | Yes | Yes | |
| | WCDMA II | Yes | | Yes | Yes | |
| | WCDMA IV | Yes | | Yes | Yes | |
| | WCDMA V | Yes | | Yes | Yes | |
| | LTE Band 2 | Yes | | Yes | Yes | |
| | LTE Band 5 | Yes | | Yes | Yes | |
| | LTE Band 12 | Yes | | Yes | Yes | |
| | LTE Band 13 | Yes | | Yes | Yes | |
| | LTE Band 26 | Yes | | Yes | Yes | |
| | LTE Band 66 | Yes | | Note)Yes | Yes | |
| | 5G NR n5 | Yes | | Yes | Yes | |
| 5G NR n66 | Yes | Note)Yes | Yes | Yes | | |
| Sub1 | LTE Band 2 | Yes | Non-Power-Back-off | Yes | Non-Power-Back-off | Yes |
| Main2 | LTE Band 41 (PC3) | Yes | Non-Power-Back-off | Non-Power-Back-off | Yes | Non-Power-Back-off |
| WIF1 | 2.4 GHz | Yes | Yes | Non-Power-Back-off | Non-Power-Back-off | Non-Power-Back-off |
| | U-NII-2A | Note)Yes | Note)Yes | | | |
| | U-NII-2C | Note)Yes | Note)Yes | | | |
| | U-NII-3 | Note)Yes | Note)Yes | | | |
| | Bluetooth | Yes | Yes | | | |
| WIF2 | 2.4 GHz | Yes | Non-Power-Back-off | Non-Power-Back-off | Yes | Non-Power-Back-off |
| | U-NII-2A | Note)Yes | | | Note)Yes | |
| | U-NII-2C | Note)Yes | | | Note)Yes | |
| | U-NII-3 | Note)Yes | | | Note)Yes | |

Note: Additional testing required in order satisfying FCC simultaneous transmission limit criteria.

2.6.2.3 Digitizer and NFC RF Exposure evaluation

According to KDB 447498 D01 General RF Exposure Guidance v05, section 4.3.1 c), For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):

- 1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by $[1 + \log(100/f(\text{MHz}))]$
- 2) For test separation distances ≤ 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$
- 3) SAR measurement procedures are not established below 100 MHz.

Appendix C

SAR Test Exclusion Thresholds for < 100 MHz and < 200 mm

Approximate SAR test exclusion power thresholds at selected frequencies and test separation distances are illustrated in the following table. The equation and threshold in 4.3.1 must be applied to determine SAR test exclusion.

| MHz | < 50 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | mm |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| 100 | 237 | 474 | 481 | 487 | 494 | 501 | 507 | 514 | 521 | 527 | 534 | 541 | 547 | 554 | 561 | 567 | mW |
| 50 | 308 | 617 | 625 | 634 | 643 | 651 | 660 | 669 | 677 | 686 | 695 | 703 | 712 | 721 | 729 | 738 | |
| 10 | 474 | 948 | 961 | 975 | 988 | 1001 | 1015 | 1028 | 1041 | 1055 | 1068 | 1081 | 1095 | 1108 | 1121 | 1135 | |
| 1 | 711 | 1422 | 1442 | 1462 | 1482 | 1502 | 1522 | 1542 | 1562 | 1582 | 1602 | 1622 | 1642 | 1662 | 1682 | 1702 | |
| 0.1 | 948 | 1896 | 1923 | 1949 | 1976 | 2003 | 2029 | 2056 | 2083 | 2109 | 2136 | 2163 | 2189 | 2216 | 2243 | 2269 | |
| 0.05 | 1019 | 2039 | 2067 | 2096 | 2125 | 2153 | 2182 | 2211 | 2239 | 2268 | 2297 | 2325 | 2354 | 2383 | 2411 | 2440 | |
| 0.01 | 1185 | 2370 | 2403 | 2437 | 2470 | 2503 | 2537 | 2570 | 2603 | 2637 | 2670 | 2703 | 2737 | 2770 | 2803 | 2837 | |

Using Field Strength Approach formula (linear terms), this value corresponds to an output power of 0.000 000 18 mW. For more detail the calculation method is as below.

$$P = (E \times d)^2 / (30 \times G)$$

Where:

- P = Transmitter output power in watts
- G = Numeric gain of the transmitting antenna (unitless)
- E = the measured maximum field strength in V/m
- d = Measurement distance in meters (m)

Therefore,

- E-Field strength in V/m, E-Field (V/m) = $[10^{((\text{dB}\mu\text{V} - 120) / 20)}]$
- Antenna gain = 0 dBi (numeric gain = 1.0)
- Measurement distance = 30 m



SAR Test Exclusion Conclusion according to KDB447498 D01, appendix C,

| RF Exposure Transmitter | Min. distance (mm) | Freq. | E-Field strength (dB μ V/m) | Transmitter output power (mW) | Thresholds level (mW) |
|-------------------------|--------------------|-----------|---------------------------------|-------------------------------|-----------------------|
| Digitizer(S-Pen) | 5 | 595 kHz | 7.8 | 0.000 000 18 | 764.4 |
| NFC | 5 | 13.56 MHz | 16.4 | 0.000 001 31 | 442.7 |

Because output power value (mW) is less than threshold level (mW), SAR measurement is not required
 Also, This device is tablet device;

Digitizer: SAR test is not required for front side (display) according to KDB 616217 D04 SAR for laptop and tablets v01r02. So TER analysis is not required with other transmitters.

NFC: SAR test is not required for Extremity(10g-SAR) according to KDB 616217 D04 SAR for laptop and tablets v01r02. The NFC transmission will only operate in hand held(extremity 10g-SAR), so simultaneous transmission is not considered.

| | | |
|--|---|---|
| <p>Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311 www.kctl.co.kr</p> | <p>Report No.: KR23-SPF0039-A Page (16) of (575)</p> |   |
|--|---|---|

2.7 SAR Test Methods and Procedures

The tests documented in this report were performed in accordance with IEEE 1528-2013 and the following published KDB procedures:

- IEEE 1528-2013
- 248227 D01 802.11 Wi-Fi SAR v02r02
- 447498 D01 General RF Exposure Guidance v06
- 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
- 865664 D02 RF Exposure Reporting v01r02
- 616217 D04 SAR for laptop and tablets v01r02 (Proximity Sensor)
- 941225 D01 3G SAR Procedures v03r01
- 941225 D05 SAR for LTE Devices v02r05
- 941225 D05A LTE Rel.10 KDB Inquiry Sheet v01r02
- October 2014 TCB Workshop Notes (Other LTE Considerations)
- October 2016 TCB Workshop Notes (Bluetooth Duty Factor)
- April 2018 TCB Workshop Notes (LTE Carrier Aggregation)
- April 2019 TCB Workshop Notes (Tissue Simulating Liquids)
- November 2019 TCB Workshop Notes (SPLSR Hotspot Combination)
- April 2022 TCB Workshop Notes (5G NR FR1 Measurement Procedures)
- April 2022 TCB Workshop Notes (SPLSR)



3. #LTE Information

| LTE Information | | | | |
|---|--|------------------|------------------|------------------|
| Form Factor | Tablet PC | | | |
| Frequency Range of each LTE transmission band | LTE Band 2 (1 850.7 MHz ~ 1 909.3 MHz) LTE Band 4 (1 710.7 MHz ~ 1 754.3 MHz) LTE Band 5 (824.7 MHz ~ 848.3 MHz) LTE Band 12 (699.7 MHz ~ 715.3 MHz) LTE Band 13 (779.5 MHz ~ 784.5 MHz) LTE Band 17 (706.5 ~ 713.5) MHz LTE Band 26 (814.7 ~ 848.3 MHz) LTE Band 41 (2 498.5 MHz ~ 2 687.5 MHz) LTE Band 66 (1 710.7 MHz ~ 1 779.3 MHz) | | | |
| Channel Bandwidths | LTE Band 2: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 4: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 5: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz LTE Band 13: 5 MHz, 10 MHz LTE Band 17: 5 MHz, 10 MHz LTE Band 26: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 66: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz | | | |
| Channel Numbers and Frequencies(MHz) | | Low | Mid | High |
| Band | Bandwidths | | | |
| LTE Band 2 (Main1) | 1.4 MHz | 1 850.7 (18 607) | 1 880.0 (18 900) | 1 909.3 (19 193) |
| | 3 MHz | 1 851.5 (18 615) | 1 880.0 (18 900) | 1 908.5 (19 185) |
| | 5 MHz | 1 852.5 (18 625) | 1 880.0 (18 900) | 1 907.5 (19 175) |
| | 10 MHz | 1 855.0 (18 650) | 1 880.0 (18 900) | 1 905.0 (19 150) |
| | 15 MHz | 1 857.5 (18 675) | 1 880.0 (18 900) | 1 902.5 (19 125) |
| | 20 MHz | 1 860.0 (18 700) | 1 880.0 (18 900) | 1 900.0 (19 100) |
| LTE Band 2 (Sub1) | 1.4 MHz | 1 850.7 (18 607) | 1 880.0 (18 900) | 1 909.3 (19 193) |
| | 3 MHz | 1 851.5 (18 615) | 1 880.0 (18 900) | 1 908.5 (19 185) |
| | 5 MHz | 1 852.5 (18 625) | 1 880.0 (18 900) | 1 907.5 (19 175) |
| | 10 MHz | 1 855.0 (18 650) | 1 880.0 (18 900) | 1 905.0 (19 150) |
| | 15 MHz | 1 857.5 (18 675) | 1 880.0 (18 900) | 1 902.5 (19 125) |
| | 20 MHz | 1 860.0 (18 700) | 1 880.0 (18 900) | 1 900.0 (19 100) |
| LTE Band 4 | 1.4 MHz | 1 710.7 (19 957) | 1 732.5 (20 175) | 1 754.3 (20 393) |
| | 3 MHz | 1 711.5 (19 965) | 1 732.5 (20 175) | 1 753.5 (20 385) |
| | 5 MHz | 1 712.5 (19 975) | 1 732.5 (20 175) | 1 752.5 (20 375) |
| | 10 MHz | 1 715.0 (20 000) | 1 732.5 (20 175) | 1 750.0 (20 350) |
| | 15 MHz | 1 717.5 (20 025) | 1 732.5 (20 175) | 1 747.5 (20 325) |
| | 20 MHz | 1 720.0 (20 050) | 1 732.5 (20 175) | 1 745.0 (20 300) |

| Channel Numbers and Frequencies(MHz) | | Low | | Mid | | High | |
|--|------------|---|------------------|-------------------|------------------|-------------------|--|
| Band | Bandwidths | | | | | | |
| LTE Band 5 | 1.4 MHz | 824.7 (20 407) | | 836.5 (20 525) | | 848.3 (20 643) | |
| | 3 MHz | 825.5 (20 415) | | 836.5 (20 525) | | 847.5 (20 635) | |
| | 5 MHz | 826.5 (20 425) | | 836.5 (20 525) | | 846.5 (20 625) | |
| | 10 MHz | 829.0 (20 450) | | 836.5 (20 525) | | 844.0 (20 600) | |
| LTE Band 12 | 1.4 MHz | 699.7 (23 017) | | 707.5 (23 095) | | 715.3 (23 173) | |
| | 3 MHz | 700.5 (23 025) | | 707.5 (23 095) | | 714.5 (23 165) | |
| | 5 MHz | 701.5 (23 035) | | 707.5 (23 095) | | 713.5 (23 155) | |
| | 10 MHz | 704.0 (23 060) | | 707.5 (23 095) | | 711.0 (23 130) | |
| LTE Band 13 | 5 MHz | 779.5 (23 205) | | 782.0 (23 230) | | 784.5 (23 255) | |
| | 10 MHz | - | | 782.0 (23 230) | | - | |
| LTE Band 17 | 5 MHz | 706.5 (23 755) | | 710.0 (23 790) | | 713.5 (23 825) | |
| | 10 MHz | 709.0 (23 780) | | 710.0 (23 790) | | 711.0 (23 800) | |
| LTE Band 26 | 1.4 MHz | 814.7 (26 697) | | 831.5 (26 865) | | 848.3 (27 033) | |
| | 3 MHz | 815.5 (26 705) | | 831.5 (26 865) | | 847.5 (27 025) | |
| | 5 MHz | 816.5 (26 715) | | 831.5 (26 865) | | 846.5 (27 015) | |
| | 10 MHz | 819.0 (26 740) | | 831.5 (26 865) | | 844.0 (26 990) | |
| | 15 MHz | 821.5 (26 765) | | 831.5 (26 865) | | 841.5 (26 965) | |
| LTE Band 41 (Power Class 2) | 5 MHz | 2 506.0 (39 750) | 2 549.5 (40 185) | 2 593.0 (40 620) | 2 636.5 (41 055) | 2 680.0 (41 490) | |
| | 10 MHz | 2 506.0 (39 750) | 2 549.5 (40 185) | 2 593.0 (40 620) | 2 636.5 (41 055) | 2 680.0 (41 490) | |
| | 15 MHz | 2 506.0 (39 750) | 2 549.5 (40 185) | 2 593.0 (40 620) | 2 636.5 (41 055) | 2 680.0 (41 490) | |
| | 20 MHz | 2 506.0 (39 750) | 2 549.5 (40 185) | 2 593.0 (40 620) | 2 636.5 (41 055) | 2 680.0 (41 490) | |
| LTE Band 41 (Power Class 3) | 5 MHz | 2 506.0 (39 750) | 2 549.5 (40 185) | 2 593.0 (40 620) | 2 636.5 (41 055) | 2 680.0 (41 490) | |
| | 10 MHz | 2 506.0 (39 750) | 2 549.5 (40 185) | 2 593.0 (40 620) | 2 636.5 (41 055) | 2 680.0 (41 490) | |
| | 15 MHz | 2 506.0 (39 750) | 2 549.5 (40 185) | 2 593.0 (40 620) | 2 636.5 (41 055) | 2 680.0 (41 490) | |
| | 20 MHz | 2 506.0 (39 750) | 2 549.5 (40 185) | 2 593.0 (40 620) | 2 636.5 (41 055) | 2 680.0 (41 490) | |
| LTE Band 66 | 1.4 MHz | 1 710.7 (131 979) | | 1 745.0 (132 322) | | 1 779.3 (132 665) | |
| | 3 MHz | 1 711.5 (131 987) | | 1 745.0 (132 322) | | 1 778.5 (132 657) | |
| | 5 MHz | 1 712.5 (131 997) | | 1 745.0 (132 322) | | 1 777.5 (132 647) | |
| | 10 MHz | 1 715.0 (132 022) | | 1 745.0 (132 322) | | 1 775.0 (132 622) | |
| | 15 MHz | 1 717.5 (132 047) | | 1 745.0 (132 322) | | 1 772.5 (132 597) | |
| | 20 MHz | 1 720.0 (132 072) | | 1 745.0 (132 322) | | 1 770.0 (132 572) | |
| UE Category | | DL: 18 / UL: 18 | | | | | |
| Modulations Supported in UL | | QPSK, 16QAM, 64QAM, 256QAM | | | | | |
| LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3 ~ 6.2.5?(manufacturer attestation to be provided) | | YES | | | | | |
| A-MPR(Additional MPR) disabled for SAR Testing? | | YES | | | | | |
| LTE Carrier Aggregation Possible Combinations | | This device supports LTE DL CA. | | | | | |
| LTE Additional Information | | This device does not support full CA features on 3GPP Release 16. It supports carrier aggregation as shown in Appendix C. Uplink communications are done on the PCC. The following LTE Release 16 Features are not supported: Relay, HetNet, Enhanced MIMO, eICIC, WIFI Offloading, MDH, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA. | | | | | |

4. #5G NR Information

| 5G NR Information | | | | |
|---|------------|---|-------------------|-------------------|
| Form Factor | | Tablet PC | | |
| Frequency Range of each 5G NR transmission band | | 5G NR n5: 826.5 MHz ~ 846.5 MHz 5G NR n66: 1712.5 MHz ~ 1775.0 MHz | | |
| Mode | Band | Duplex | SCS(kHz) | Bandwidths(BW) |
| SA, NSA | n5 | FDD | 15 | 5, 10, 15, 20 |
| | n66 | FDD | 15 | 5, 10, 15, 20 |
| Channel Numbers and Frequencies(MHz) | | Low | Mid | High |
| Band | Bandwidths | | | |
| NR Band n5 | 5 MHz | 826.5 (165 300) | 836.5 (167 300) | 846.5 (169 300) |
| | 10 MHz | 829.0 (165 800) | 836.5 (167 300) | 844.0 (168 800) |
| | 15 MHz | 831.5 (166 300) | 836.5 (167 300) | 841.5 (168 300) |
| | 20 MHz | 834.0 (166 800) | 836.5 (167 300) | 839.0 (167 800) |
| NR Band n66 | 5 MHz | 1 712.5 (342 500) | 1 745.0 (349 000) | 1 777.5 (355 500) |
| | 10 MHz | 1 715.0 (343 000) | 1 745.0 (349 000) | 1 775.0 (355 000) |
| | 15 MHz | 1 717.5 (343 500) | 1 745.0 (349 000) | 1 772.5 (354 500) |
| | 20 MHz | 1 720.0 (344 000) | 1 745.0 (349 000) | 1 770.0 (354 000) |
| 5G NR Information | | | | |
| NR Band n5/n66 SCS | | 15 kHz | | |
| 3GPP Rel. | | Rel.16 | | |
| 5G NR UL/DL FR1 | | DFT-s-OFDM : $\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM : QPSK, 16QAM, 64QAM, 256QAM | | |
| Non Standalone & Standalone are supported. | | NSA (EN-DC) supported. | | |
| A-MPR(Additional MPR) disabled for SAR Testing? | | YES | | |
| EN-DC Carrier Aggregation Possible Combinations | | | | |
| LTE Anchor Bands for NR Band n5 | | LTE Band 2/66 (Main1) | | |
| LTE Anchor Bands for NR Band n66 | | LTE Band 2(Sub1) / 5/12/13 (Main1) | | |

5. Specific Absorption Rate

5.1 Introduction

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

5.2 SAR Definition

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

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

SAR is expressed in units of Watts per kilogram (W/kg)

SAR measurement can be either related to the temperature elevation in tissue by

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

Where: C is the specific heat capacity, δT is the temperature rise and δt is the exposure duration, or related to the electrical field in the tissue by

$$\text{SAR} = \left(\frac{\sigma |E|^2}{\rho} \right)$$

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength. However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

6. SAR Measurement Procedures

6.1 SAR Scan Procedures

Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The Minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. The minimum distance of probe sensors to surface is 1.4 mm. This distance cannot be smaller than the Distance of sensor calibration points to probe tip as defined in the probe properties.



Step 2: Area Scan & Zoom Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot and Zoom Scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. If only one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of Zoom Scans has to be increased accordingly. Area Scan & Zoom Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04.

| | | ≤ 3 GHz | > 3 GHz |
|--|---|---|--|
| Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface | | 5 mm ± 1 mm | $\frac{1}{2} \cdot \delta \cdot \ln(2)$ mm 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: Δx_{Area} , Δy_{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: Δx_{Zoom} , Δy_{Zoom} | | ≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm* | 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 1st 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 · $\Delta z_{Zoom}(n-1)$ mm | |
| 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 IEEE Std 1528-2013 for details. * When zoom scan is required and the reported SAR from the area scan based 1-g SAR estimation procedures of KDB Publication 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. | | | |

Step 3: Power drift measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

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7. SAR Measurement Configurations

7.1 SAR Testing for Tablet Configurations

Per FCC KDB Publication 616217 D04v01r02, for the back surface and edges of the tablet should be tested touching the phantom.

SAR evaluation for the front surface of tablet display screens are generally not necessary, except for tablets that are designed to require continuous operations with the hand next to the antenna.

The SAR exclusion threshold in KDB 447498 D01v06 can be applied to determine SAR test exclusion for adjacent edge configuration. The closest distance from the antenna to an adjacent tablet edge is used to determine if SAR testing is required for the adjacent edges, with the adjacent edge positioned against the phantom and the edge containing the antenna positioned perpendicular to the phantom.

7.2 Proximity Sensor Considerations

This device uses a power reduction mechanism to reduce output powers in certain use conditions when the device is used close to the user's body.

When the device's antenna is within a certain distance of the user, the sensor activates and reduces the maximum allowed output power. However, the sensor is not active when the device is moved beyond the sensor triggering distance and the maximum output power is no longer limited. Therefore, additional evaluation 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 Publication 616217 D04v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device at these additional test positions.



8. RF Exposure Limits

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 made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

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.

| Human Exposure | Uncontrolled Environment General Population | Controlled Environment Occupational |
|---|--|--|
| Partial Peak SAR ¹⁾ (Partial) | 1.60 mW/g | 8.00 mW/g |
| Partial Average SAR ²⁾ (Whole Body) | 0.08 mW/g | 0.40 mW/g |
| Partial Peak SAR ³⁾ (Hands/Feet/Ankle/Wrist) | 4.00 mW/g | 20.00 mW/g |

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

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9. FCC SAR General Measurement Procedures

9.1 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. Test highest reported SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

9.2 3G SAR Test Reduction Procedure

In FCC KDB Publication 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.

9.3 Procedures Used to Establish RF Signal for SAR



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

The device is placed into a simulated call using a base station simulator in a RF shielded chamber. Establishing connections in this manner ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. Devices under test are evaluated prior to testing, with a fully charged battery and were configured to operate at maximum output power. In order to verify that the device is tested throughout the SAR test at maximum output power, the SAR measurement system measures a “point SAR” at an arbitrary reference point at the start and end of the 1 gram SAR evaluation, to assess for any power drifts during the evaluation. If the power drift deviates by more than 5%, the SAR test and drift measurements are repeated.

9.4 SAR Measurement Conditions for UMTS

9.4.1 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.

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9.4.2 Head SAR Measurements

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all “1’s”. The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure.

9.4.3 Body SAR measurements

SAR for body exposure configurations is measured using the 12.2kbps 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 12.2kbps RMC.

9.4.4 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.

9.4.5 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.

9.4.6 SAR Measurements with Rel. 8 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 TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable

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9.5 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).

9.5.1 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.

9.5.2 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.

9.5.3 A-MPR

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

9.5.4 Required RB Size and RB offsets for SAR testing

According to FCC KDB 941225 D05v02r05

1. Per sec 4.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth
 - a. The required channel and offset combination with the highest maximum output power is required for SAR.
 - b. 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.
 - c. 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
2. 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.
3. 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.
4. 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.

9.5.5 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 sub-frame configuration 6.

LTE TDD Band 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 n | 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 | $6592 \cdot T_s$ | $(1+X) \cdot 2192 \cdot T_s$ | $(1+X) \cdot 2560 \cdot T_s$ | $7680 \cdot T_s$ | $(1+X) \cdot 2192 \cdot T_s$ | $(1+X) \cdot 2560 \cdot T_s$ |
| 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 | $6592 \cdot T_s$ | $(2+X) \cdot 2192 \cdot T_s$ | $(2+X) \cdot 2560 \cdot T_s$ | $20480 \cdot T_s$ | $(2+X) \cdot 2192 \cdot T_s$ | $(2+X) \cdot 2560 \cdot T_s$ |
| 6 | $19760 \cdot T_s$ | | | $23040 \cdot T_s$ | | |
| 7 | $21952 \cdot T_s$ | | | $12800 \cdot T_s$ | | |
| 8 | $24144 \cdot T_s$ | | | - | | |
| 9 | $13168 \cdot T_s$ | | | - | | |
| 10 | $13168 \cdot T_s$ | $13152 \cdot T_s$ | $12800 \cdot T_s$ | - | - | - |

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 |

Calculated Duty Cycle – Extended cyclic prefix in uplink x (Ts) x # of S + # of U

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

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

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

Note: 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.

9.5.6 NR (Sub 6 GHz) Considerations

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS 138.521-1 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS138.521-1.

| Modulation | MPR(dB) | | |
|----------------------|--|---------------------|---------------------|
| | Edge RB allocation | Outer RB allocation | Inner RB allocation |
| DFT-s-OFDM PI/2 BPSK | $\leq 3.5^1$ | $\leq 1.2^1$ | $\leq 0.2^1$ |
| | $\leq 0.5^2$ | | 0^2 |
| DFT-s-OFDM QPSK | ≤ 1 | | 0 |
| DFT-s-OFDM 16QAM | ≤ 2 | | ≤ 1 |
| DFT-s-OFDM 64QAM | ≤ 2.5 | | |
| DFT-s-OFDM 256QAM | ≤ 4.5 | | |
| CP-OFDM QPSK | ≤ 3 | ≤ 1.5 | |
| CP-OFDM 16QAM | ≤ 3 | ≤ 2 | |
| CP-OFDM 64QAM | ≤ 3.5 | | |
| CP-OFDM 256QAM | ≤ 6.5 | | |
| NOTE 1: | Applicable for UE operating in TDD mode with PI/2 BPSK modulation and UE indicates support for UE capability powerBoosting-pi2BPSK and if the IE powerBoostPi2BPSK is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0dB MPR is 26dBm. | | |
| NOTE 2: | Applicable for UE operating in FDD mode, or in TDD mode in bands other than 40, n41, n77, n78 and n79 and if The IE powerBoostPi2BPSK is set to 0 and if more than 40% of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. | | |



The allowed A-MPR values specified below in Table 6.2.3.3.1-1 of 3GPP TS138.521-1 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network

Signaling Value of "NS_01"

Table 6.2.3.3.1-1: Additional maximum power reduction (A-MPR)

| Network Signalling label | Requirements (subclause) | NR Band | Channel Bandwidth (MHz) | Resources Blocks(NRB) | A-MPR(dB) |
|--------------------------|--------------------------|-------------|--|-----------------------|-----------|
| NS_01 | | Table 5.2-1 | 5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100 | Table 5.3.2-1 | N/A |

Uplink RB allocations were used to Table 6.1-1 of the 3GPP TS 138.521-1.

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9.6 SAR Testing with 802.11 Transmitters

The normal network operating configurations are not suitable for measuring the SAR of 802.11 a/b/g transmitters. 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.

9.6.1 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 systems 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.

9.6.2 U-NII-1 and U-NII-2A

For devices that operate in both U-NII-1 and U-NII-2A 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. When different maximum output powers 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. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

9.6.3 U-NII-2C and U-NII-3

The frequency range covered by U-NII-2C and U-NII-3 is 380 MHz (5.47 – 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 – 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. When band gap channels are disabled, each band is tested independently according to the normally required OFDM SAR measurement and probe calibration frequency point requirements.

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9.6.4 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, no additional testing for the remaining test positions is required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured.

9.6.5 2.4 GHz SAR Test Requirement



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 in 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; i.e., all channels require testing.

2.4 GHz 802.11g/n OFDM are additionally evaluated for SAR if 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.

9.6.6 OFDM Transmission Mode and SAR Test Channel Selection

For the 2.4 GHz and 5 GHz band, 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. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11a, 802.11n and 802.11ac 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 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.

| | | |
|--|---|---|
| <p>Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311 www.kctl.co.kr</p> | <p>Report No.: KR23-SPF0039-A Page (31) of (575)</p> |   |
|--|---|---|

9.6.7 Initial Test Configuration Procedure

For OFDM, in both 2.4 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.

9.6.8 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 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, no additional SAR tests for the subsequent test configurations are required. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

10. RF Average Conducted Output Power

10.1 GSM Average Conducted Output Power

| Maximum Burst-Average Output Power (dB m) | | | | | | | | | | |
|---|---------|-------|-------------|-------|-------|--------------|---------------|-------|-------|-------|
| Band | Channel | GSM | GPRS (GMSK) | | | | EGPRS (8-PSK) | | | |
| | | Voice | 1Tx | 2Tx | 3Tx | 4Tx | 1Tx | 2Tx | 3Tx | 4Tx |
| GSM 850 | 128 | 32.55 | 32.46 | 30.49 | 28.89 | 27.61 | 26.41 | 24.65 | 23.14 | 21.52 |
| | 190 | 32.74 | 32.68 | 30.67 | 28.88 | 27.73 | 26.52 | 24.72 | 23.18 | 21.60 |
| | 251 | 33.04 | 33.03 | 30.97 | 29.41 | 27.74 | 26.75 | 24.93 | 23.34 | 21.54 |
| GSM 1900 | 512 | 29.95 | 29.91 | 28.32 | 27.53 | 26.37 | 25.71 | 23.59 | 22.41 | 21.15 |
| | 661 | 30.15 | 30.11 | 28.53 | 27.49 | 26.34 | 25.96 | 23.82 | 22.46 | 21.19 |
| | 810 | 30.03 | 30.01 | 28.55 | 27.69 | 26.57 | 26.03 | 23.90 | 22.59 | 21.30 |

| Maximum Frame-Average Output Power (dB m) | | | | | | | | | | |
|---|-------------|-------|-------------|-------|-------|-------|---------------|-------|-------|-------|
| Band | Channel | GSM | GPRS (GMSK) | | | | EGPRS (8-PSK) | | | |
| | | Voice | 1Tx | 2Tx | 3Tx | 4Tx | 1Tx | 2Tx | 3Tx | 4Tx |
| GSM 850 | 128 | 23.52 | 23.43 | 24.47 | 24.63 | 24.60 | 17.38 | 18.63 | 18.88 | 18.51 |
| | 190 | 23.71 | 23.65 | 24.65 | 24.62 | 24.72 | 17.49 | 18.70 | 18.92 | 18.59 |
| | 251 | 24.01 | 24.00 | 24.95 | 25.15 | 24.73 | 17.72 | 18.91 | 19.08 | 18.53 |
| GSM 1900 | 512 | 20.92 | 20.88 | 22.30 | 23.27 | 23.36 | 16.68 | 17.57 | 18.15 | 18.14 |
| | 661 | 21.12 | 21.08 | 22.51 | 23.23 | 23.33 | 16.93 | 17.80 | 18.20 | 18.18 |
| | 810 | 21.00 | 20.98 | 22.53 | 23.43 | 23.56 | 17.00 | 17.88 | 18.33 | 18.29 |
| GSM 850 | Frame | 24.47 | 24.47 | 25.98 | 26.54 | 26.59 | 18.47 | 19.48 | 20.04 | 19.99 |
| GSM 1900 | Avg, Target | 21.47 | 21.47 | 23.48 | 24.24 | 24.49 | 17.47 | 18.48 | 19.04 | 18.99 |

10.2 GSM Average Conducted Output Power (Back-off_RCV, Grip Sensor)

| Maximum Burst-Average Output Power (dB m) | | | | | | | | | | |
|---|---------|--------------|-------------|-------|-------|--------------|---------------|-------|-------|-------|
| Band | Channel | GSM | GPRS (GMSK) | | | | EGPRS (8-PSK) | | | |
| | | Voice | 1Tx | 2Tx | 3Tx | 4Tx | 1Tx | 2Tx | 3Tx | 4Tx |
| GSM 850 | 128 | 23.14 | 23.14 | 20.27 | 18.78 | 17.55 | 16.89 | 14.52 | 13.08 | 11.73 |
| | 190 | 23.24 | 23.23 | 20.08 | 18.89 | 17.66 | 16.97 | 14.54 | 13.11 | 11.75 |
| | 251 | 23.23 | 23.19 | 20.27 | 18.77 | 18.00 | 17.16 | 14.54 | 13.30 | 11.74 |
| GSM 1900 | 512 | 20.34 | 20.15 | 18.36 | 17.12 | 16.03 | 15.92 | 13.60 | 12.27 | 10.90 |
| | 661 | 20.41 | 20.47 | 18.48 | 17.53 | 16.42 | 16.10 | 13.81 | 12.47 | 11.33 |
| | 810 | 20.50 | 20.55 | 18.83 | 17.61 | 16.52 | 16.30 | 14.02 | 12.67 | 11.52 |

| Maximum Frame-Average Output Power (dB m) | | | | | | | | | | |
|---|-------------|-------|-------------|-------|-------|-------|---------------|------|-------|-------|
| Band | Channel | GSM | GPRS (GMSK) | | | | EGPRS (8-PSK) | | | |
| | | Voice | 1Tx | 2Tx | 3Tx | 4Tx | 1Tx | 2Tx | 3Tx | 4Tx |
| GSM 850 | 128 | 14.11 | 14.11 | 14.25 | 14.52 | 14.54 | 7.86 | 8.50 | 8.82 | 8.72 |
| | 190 | 14.21 | 14.20 | 14.06 | 14.63 | 14.65 | 7.94 | 8.52 | 8.85 | 8.74 |
| | 251 | 14.20 | 14.16 | 14.25 | 14.51 | 14.99 | 8.13 | 8.52 | 9.04 | 8.73 |
| GSM 1900 | 512 | 11.31 | 11.12 | 12.34 | 12.86 | 13.02 | 6.89 | 7.58 | 8.01 | 7.89 |
| | 661 | 11.38 | 11.44 | 12.46 | 13.27 | 13.41 | 7.07 | 7.79 | 8.21 | 8.32 |
| | 810 | 11.47 | 11.52 | 12.81 | 13.35 | 13.51 | 7.27 | 8.00 | 8.41 | 8.51 |
| GSM 850 | Frame | 14.97 | 14.97 | 15.98 | 16.24 | 16.49 | 8.97 | 9.98 | 10.24 | 10.49 |
| GSM 1900 | Avg, Target | 11.97 | 11.97 | 13.48 | 14.24 | 14.49 | 7.97 | 8.98 | 9.24 | 9.49 |

10.3 WCDMA Average Conducted Output Power

| Band | Mode | Average Conducted Power (dBm) | | | MPR [dB] |
|--------------------|--------------------|-------------------------------|--------------|-------------|----------|
| | | Channel | | | |
| | | 9 262 | 9 400 | 9 538 | |
| | | 1 852.4 MHz | 1 880.0 MHz | 1 907.6 MHz | |
| WCDMA II | RMC | 23.68 | 23.44 | 23.39 | - |
| | AMR | 23.64 | 23.40 | 23.38 | - |
| | HSDPA-Subtest 1 | 23.00 | 22.90 | 22.84 | 0 |
| | HSDPA-Subtest 2 | 22.42 | 22.25 | 22.19 | 0 |
| | HSDPA-Subtest 3 | 21.85 | 21.81 | 21.61 | 0.5 |
| | HSDPA-Subtest 4 | 21.30 | 21.25 | 21.21 | 0.5 |
| | HSUPA-Subtest 1 | 21.94 | 21.85 | 21.80 | 0 |
| | HSUPA-Subtest 2 | 19.88 | 19.76 | 19.71 | 2 |
| | HSUPA-Subtest 3 | 22.13 | 21.91 | 21.86 | 1 |
| | HSUPA-Subtest 4 | 20.09 | 19.88 | 19.82 | 2 |
| | HSUPA-Subtest 5 | 23.07 | 22.94 | 22.89 | 0 |
| | DC-HSDPA-Subtest 1 | 23.06 | 22.98 | 22.91 | 0 |
| | DC-HSDPA-Subtest 2 | 22.77 | 22.55 | 22.48 | 0 |
| | DC-HSDPA-Subtest 3 | 21.66 | 21.48 | 21.40 | 0.5 |
| DC-HSDPA-Subtest 4 | 21.72 | 21.47 | 21.40 | 0.5 | |

| Band | Mode | Average Conducted Power (dBm) | | | MPR [dB] |
|--------------------|--------------------|-------------------------------|--------------|-------------|----------|
| | | Channel | | | |
| | | 1 312 | 1 412 | 1 513 | |
| | | 1 712.4 MHz | 1 732.4 MHz | 1 752.6 MHz | |
| WCDMA IV | RMC | 23.69 | 24.04 | 23.75 | - |
| | AMR | 23.65 | 23.93 | 23.74 | - |
| | HSDPA-Subtest 1 | 23.22 | 23.47 | 23.30 | 0 |
| | HSDPA-Subtest 2 | 22.45 | 22.72 | 22.56 | 0 |
| | HSDPA-Subtest 3 | 21.90 | 22.07 | 21.91 | 0.5 |
| | HSDPA-Subtest 4 | 21.86 | 22.08 | 21.93 | 0.5 |
| | HSUPA-Subtest 1 | 22.12 | 22.32 | 22.10 | 0 |
| | HSUPA-Subtest 2 | 19.71 | 19.90 | 19.72 | 2 |
| | HSUPA-Subtest 3 | 22.11 | 22.33 | 22.18 | 1 |
| | HSUPA-Subtest 4 | 19.95 | 20.22 | 20.03 | 2 |
| | HSUPA-Subtest 5 | 23.15 | 23.43 | 23.33 | 0 |
| | DC-HSDPA-Subtest 1 | 23.19 | 23.48 | 23.44 | 0 |
| | DC-HSDPA-Subtest 2 | 22.81 | 23.12 | 22.96 | 0 |
| | DC-HSDPA-Subtest 3 | 21.80 | 22.07 | 21.93 | 0.5 |
| DC-HSDPA-Subtest 4 | 22.28 | 22.57 | 22.42 | 0.5 | |

| Band | Mode | Average Conducted Power (dBm) | | | MPR [dB] |
|---------|--------------------|-------------------------------|--------------|-----------|----------|
| | | Channel | | | |
| | | 4 132 | 4 183 | 4 233 | |
| | | 826.4 MHz | 836.6 MHz | 846.6 MHz | |
| WCDMA V | RMC | 24.18 | 24.21 | 24.10 | - |
| | AMR | 24.17 | 24.15 | 24.03 | - |
| | HSDPA-Subtest 1 | 23.24 | 23.38 | 23.14 | 0 |
| | HSDPA-Subtest 2 | 22.48 | 22.56 | 22.48 | 0 |
| | HSDPA-Subtest 3 | 22.12 | 22.25 | 21.84 | 0.5 |
| | HSDPA-Subtest 4 | 21.59 | 21.56 | 21.31 | 0.5 |
| | HSUPA-Subtest 1 | 22.23 | 22.36 | 22.20 | 0 |
| | HSUPA-Subtest 2 | 20.26 | 20.36 | 20.15 | 2 |
| | HSUPA-Subtest 3 | 21.25 | 21.35 | 21.13 | 1 |
| | HSUPA-Subtest 4 | 20.27 | 20.37 | 20.15 | 2 |
| | HSUPA-Subtest 5 | 23.24 | 23.39 | 23.16 | 0 |
| | DC-HSDPA-Subtest 1 | 23.29 | 23.42 | 23.32 | 0 |
| | DC-HSDPA-Subtest 2 | 22.87 | 22.89 | 22.72 | 0 |
| | DC-HSDPA-Subtest 3 | 21.43 | 21.38 | 21.26 | 0.5 |
| | DC-HSDPA-Subtest 4 | 21.92 | 21.88 | 21.79 | 0.5 |

10.4 WCDMA Average Conducted Output Power (Back-off_RCV, Grip Sensor)

| Band | Mode | Average Conducted Power (dBm) | | | MPR [dB] |
|--------------------|--------------------|-------------------------------|--------------|-------------|----------|
| | | Channel | | | |
| | | 9 262 | 9 400 | 9 538 | |
| | | 1 852.4 MHz | 1 880.0 MHz | 1 907.6 MHz | |
| WCDMA II | RMC | 13.70 | 13.42 | 13.30 | - |
| | AMR | 13.65 | 13.40 | 13.21 | - |
| | HSDPA-Subtest 1 | 13.25 | 13.24 | 13.25 | 0 |
| | HSDPA-Subtest 2 | 13.11 | 13.11 | 13.11 | 0 |
| | HSDPA-Subtest 3 | 13.10 | 12.93 | 12.94 | 0 |
| | HSDPA-Subtest 4 | 12.96 | 12.93 | 12.96 | 0 |
| | HSUPA-Subtest 1 | 12.26 | 12.25 | 12.24 | 0 |
| | HSUPA-Subtest 2 | 12.22 | 12.23 | 12.26 | 0 |
| | HSUPA-Subtest 3 | 12.26 | 12.27 | 12.26 | 0 |
| | HSUPA-Subtest 4 | 12.22 | 12.01 | 12.10 | 0 |
| | HSUPA-Subtest 5 | 13.24 | 13.01 | 13.03 | 0 |
| | DC-HSDPA-Subtest 1 | 13.25 | 13.26 | 13.27 | 0 |
| | DC-HSDPA-Subtest 2 | 13.29 | 13.27 | 13.26 | 0 |
| | DC-HSDPA-Subtest 3 | 13.30 | 13.28 | 13.29 | 0 |
| DC-HSDPA-Subtest 4 | 13.30 | 13.27 | 13.28 | 0 | |

| Band | Mode | Average Conducted Power (dBm) | | | MPR [dB] |
|--------------------|--------------------|-------------------------------|--------------|-------------|----------|
| | | Channel | | | |
| | | 1 312 | 1 412 | 1 513 | |
| | | 1 712.4 MHz | 1 732.4 MHz | 1 752.6 MHz | |
| WCDMA IV | RMC | 13.65 | 14.01 | 13.76 | - |
| | AMR | 13.60 | 13.99 | 13.65 | - |
| | HSDPA-Subtest 1 | 13.51 | 13.93 | 13.61 | 0 |
| | HSDPA-Subtest 2 | 13.30 | 13.69 | 13.37 | 0 |
| | HSDPA-Subtest 3 | 13.24 | 13.60 | 13.49 | 0 |
| | HSDPA-Subtest 4 | 13.41 | 13.61 | 13.32 | 0 |
| | HSUPA-Subtest 1 | 12.50 | 12.99 | 12.60 | 0 |
| | HSUPA-Subtest 2 | 12.50 | 13.02 | 12.62 | 0 |
| | HSUPA-Subtest 3 | 12.50 | 12.95 | 12.59 | 0 |
| | HSUPA-Subtest 4 | 12.49 | 12.99 | 12.58 | 0 |
| | HSUPA-Subtest 5 | 13.56 | 13.94 | 13.63 | 0 |
| | DC-HSDPA-Subtest 1 | 13.55 | 13.92 | 13.72 | 0 |
| | DC-HSDPA-Subtest 2 | 13.60 | 13.99 | 13.75 | 0 |
| | DC-HSDPA-Subtest 3 | 13.62 | 13.95 | 13.73 | 0 |
| DC-HSDPA-Subtest 4 | 13.59 | 13.97 | 13.74 | 0 | |

| Band | Mode | Average Conducted Power (dBm) | | | MPR [dB] |
|---------|--------------------|-------------------------------|--------------|-----------|----------|
| | | Channel | | | |
| | | 4 132 | 4 183 | 4 233 | |
| | | 826.4 MHz | 836.6 MHz | 846.6 MHz | |
| WCDMA V | RMC | 17.16 | 17.30 | 17.20 | - |
| | AMR | 17.10 | 17.20 | 17.02 | - |
| | HSDPA-Subtest 1 | 16.85 | 16.85 | 16.52 | 0 |
| | HSDPA-Subtest 2 | 16.62 | 16.77 | 16.42 | 0 |
| | HSDPA-Subtest 3 | 16.53 | 16.55 | 16.26 | 0 |
| | HSDPA-Subtest 4 | 16.55 | 16.55 | 16.39 | 0 |
| | HSUPA-Subtest 1 | 15.79 | 15.69 | 15.48 | 0 |
| | HSUPA-Subtest 2 | 15.79 | 15.72 | 15.51 | 0 |
| | HSUPA-Subtest 3 | 15.84 | 15.78 | 15.59 | 0 |
| | HSUPA-Subtest 4 | 15.77 | 15.67 | 15.46 | 0 |
| | HSUPA-Subtest 5 | 16.80 | 16.64 | 16.39 | 0 |
| | DC-HSDPA-Subtest 1 | 16.73 | 16.76 | 16.53 | 0 |
| | DC-HSDPA-Subtest 2 | 16.87 | 16.86 | 16.56 | 0 |
| | DC-HSDPA-Subtest 3 | 16.89 | 16.88 | 16.58 | 0 |
| | DC-HSDPA-Subtest 4 | 16.87 | 16.89 | 16.56 | 0 |

10.5 LTE Average Conducted Output Power

10.5.1 LTE Band 2 (Main1)

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 18 700 | 18 900 | 19 100 | |
| | | | | 1 860.0 MHz | 1 880.0 MHz | 1 900.0 MHz | |
| 20 MHz | QPSK | 1 | 0 | 23.82 | 23.80 | 23.71 | 0 |
| | | 1 | 49 | 23.93 | 23.84 | 23.83 | 0 |
| | | 1 | 99 | 23.87 | 23.74 | 23.71 | 0 |
| | | 50 | 0 | 22.91 | 22.78 | 22.82 | 1 |
| | | 50 | 24 | 23.00 | 22.83 | 22.84 | 1 |
| | | 50 | 50 | 22.95 | 22.82 | 22.81 | 1 |
| | | 100 | 0 | 22.97 | 22.86 | 22.74 | 1 |
| | 16QAM | 1 | 0 | 23.21 | 22.94 | 23.12 | 1 |
| | | 1 | 49 | 22.99 | 22.83 | 22.83 | 1 |
| | | 1 | 99 | 23.28 | 22.87 | 23.03 | 1 |
| | | 50 | 0 | 22.00 | 21.86 | 21.89 | 2 |
| | | 50 | 24 | 21.96 | 21.78 | 21.81 | 2 |
| | | 50 | 50 | 21.97 | 21.79 | 21.87 | 2 |
| | | 100 | 0 | 21.90 | 21.83 | 21.79 | 2 |
| | 64QAM | 1 | 0 | 22.31 | 22.05 | 22.00 | 2 |
| | | 1 | 49 | 22.05 | 21.94 | 21.91 | 2 |
| | | 1 | 99 | 22.04 | 21.95 | 21.85 | 2 |
| | | 50 | 0 | 20.98 | 20.83 | 20.77 | 3 |
| | | 50 | 24 | 20.99 | 20.80 | 20.78 | 3 |
| | | 50 | 50 | 21.01 | 20.82 | 20.71 | 3 |
| | | 100 | 0 | 20.93 | 20.74 | 20.75 | 3 |
| | 256QAM | 1 | 0 | 19.04 | 18.98 | 18.99 | 5 |
| | | 1 | 49 | 19.13 | 18.70 | 18.95 | 5 |
| | | 1 | 99 | 18.92 | 18.74 | 18.87 | 5 |
| | | 50 | 0 | 18.87 | 18.78 | 18.70 | 5 |
| | | 50 | 24 | 18.82 | 18.75 | 18.80 | 5 |
| | | 50 | 50 | 18.87 | 18.74 | 18.74 | 5 |
| | | 100 | 0 | 18.96 | 18.77 | 18.73 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 18 675 | 18 900 | 19 125 | |
| | | | | 1 857.5 MHz | 1 880.0 MHz | 1 902.5 MHz | |
| 15 MHz | QPSK | 1 | 0 | 23.79 | 23.76 | 23.76 | 0 |
| | | 1 | 36 | 23.74 | 23.62 | 23.62 | 0 |
| | | 1 | 74 | 23.91 | 23.77 | 23.72 | 0 |
| | | 36 | 0 | 22.93 | 22.84 | 22.91 | 1 |
| | | 36 | 18 | 22.92 | 22.87 | 22.81 | 1 |
| | | 36 | 37 | 22.98 | 22.84 | 22.78 | 1 |
| | | 75 | 0 | 22.95 | 22.78 | 22.80 | 1 |
| | 16QAM | 1 | 0 | 23.07 | 23.00 | 23.15 | 1 |
| | | 1 | 36 | 23.11 | 22.88 | 22.91 | 1 |
| | | 1 | 74 | 23.15 | 23.02 | 22.94 | 1 |
| | | 36 | 0 | 21.96 | 21.89 | 21.87 | 2 |
| | | 36 | 18 | 21.97 | 21.86 | 21.82 | 2 |
| | | 36 | 37 | 21.96 | 21.82 | 21.77 | 2 |
| | | 75 | 0 | 21.92 | 21.72 | 21.78 | 2 |
| | 64QAM | 1 | 0 | 22.09 | 21.87 | 21.97 | 2 |
| | | 1 | 36 | 22.06 | 21.84 | 21.72 | 2 |
| | | 1 | 74 | 22.08 | 22.02 | 21.99 | 2 |
| | | 36 | 0 | 20.97 | 20.80 | 20.86 | 3 |
| | | 36 | 18 | 20.95 | 20.87 | 20.84 | 3 |
| | | 36 | 37 | 20.99 | 20.74 | 20.83 | 3 |
| | | 75 | 0 | 20.92 | 20.77 | 20.75 | 3 |
| | 256QAM | 1 | 0 | 19.00 | 19.02 | 18.86 | 5 |
| | | 1 | 36 | 18.91 | 18.75 | 18.67 | 5 |
| | | 1 | 74 | 18.90 | 18.93 | 18.76 | 5 |
| | | 36 | 0 | 18.90 | 18.79 | 18.75 | 5 |
| | | 36 | 18 | 18.83 | 18.72 | 18.77 | 5 |
| | | 36 | 37 | 18.92 | 18.76 | 18.66 | 5 |
| | | 75 | 0 | 18.91 | 18.81 | 18.72 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 18 650 | 18 900 | 19 150 | |
| | | | | 1 855.0 MHz | 1 880.0 MHz | 1 905.0 MHz | |
| 10 MHz | QPSK | 1 | 0 | 23.75 | 23.75 | 23.76 | 0 |
| | | 1 | 25 | 23.66 | 23.52 | 23.58 | 0 |
| | | 1 | 49 | 23.78 | 23.75 | 23.72 | 0 |
| | | 25 | 0 | 22.83 | 22.75 | 22.80 | 1 |
| | | 25 | 12 | 22.83 | 22.78 | 22.76 | 1 |
| | | 25 | 25 | 22.80 | 22.79 | 22.77 | 1 |
| | | 50 | 0 | 22.85 | 22.81 | 22.81 | 1 |
| | 16QAM | 1 | 0 | 23.11 | 23.04 | 22.99 | 1 |
| | | 1 | 25 | 23.04 | 22.86 | 22.92 | 1 |
| | | 1 | 49 | 23.08 | 22.96 | 22.78 | 1 |
| | | 25 | 0 | 21.90 | 21.83 | 21.80 | 2 |
| | | 25 | 12 | 21.81 | 21.78 | 21.77 | 2 |
| | | 25 | 25 | 21.85 | 21.77 | 21.76 | 2 |
| | | 50 | 0 | 21.85 | 21.80 | 21.82 | 2 |
| | 64QAM | 1 | 0 | 22.05 | 21.85 | 21.84 | 2 |
| | | 1 | 25 | 21.80 | 21.71 | 21.71 | 2 |
| | | 1 | 49 | 22.04 | 21.86 | 21.87 | 2 |
| | | 25 | 0 | 20.78 | 20.74 | 20.82 | 3 |
| | | 25 | 12 | 20.81 | 20.74 | 20.74 | 3 |
| | | 25 | 25 | 20.84 | 20.75 | 20.75 | 3 |
| | | 50 | 0 | 20.88 | 20.82 | 20.80 | 3 |
| | 256QAM | 1 | 0 | 18.95 | 18.83 | 19.03 | 5 |
| | | 1 | 25 | 18.85 | 18.72 | 18.66 | 5 |
| | | 1 | 49 | 18.94 | 18.78 | 18.84 | 5 |
| | | 25 | 0 | 18.82 | 18.75 | 18.72 | 5 |
| | | 25 | 12 | 18.82 | 18.70 | 18.70 | 5 |
| | | 25 | 25 | 18.83 | 18.73 | 18.69 | 5 |
| | | 50 | 0 | 18.86 | 18.72 | 18.69 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 18 625 | 18 900 | 19 175 | |
| | | | | 1 852.5 MHz | 1 880.0 MHz | 1 907.5 MHz | |
| 5 MHz | QPSK | 1 | 0 | 23.69 | 23.61 | 23.68 | 0 |
| | | 1 | 12 | 23.81 | 23.82 | 23.81 | 0 |
| | | 1 | 24 | 23.79 | 23.70 | 23.74 | 0 |
| | | 12 | 0 | 22.73 | 22.75 | 22.72 | 1 |
| | | 12 | 7 | 22.80 | 22.69 | 22.72 | 1 |
| | | 12 | 13 | 22.81 | 22.72 | 22.77 | 1 |
| | | 25 | 0 | 22.70 | 22.72 | 22.74 | 1 |
| | 16QAM | 1 | 0 | 22.94 | 22.96 | 22.97 | 1 |
| | | 1 | 12 | 22.71 | 22.91 | 22.93 | 1 |
| | | 1 | 24 | 23.01 | 22.96 | 22.87 | 1 |
| | | 12 | 0 | 21.77 | 21.72 | 21.78 | 2 |
| | | 12 | 7 | 21.79 | 21.75 | 21.72 | 2 |
| | | 12 | 13 | 21.90 | 21.77 | 21.73 | 2 |
| | | 25 | 0 | 21.78 | 21.71 | 21.74 | 2 |
| | 64QAM | 1 | 0 | 21.93 | 21.78 | 22.05 | 2 |
| | | 1 | 12 | 21.98 | 21.86 | 21.87 | 2 |
| | | 1 | 24 | 22.05 | 21.83 | 21.82 | 2 |
| | | 12 | 0 | 20.84 | 20.74 | 20.80 | 3 |
| | | 12 | 7 | 20.84 | 20.75 | 20.71 | 3 |
| | | 12 | 13 | 20.83 | 20.74 | 20.74 | 3 |
| | | 25 | 0 | 20.74 | 20.67 | 20.66 | 3 |
| | 256QAM | 1 | 0 | 18.99 | 18.79 | 18.89 | 5 |
| | | 1 | 12 | 19.02 | 18.69 | 18.78 | 5 |
| | | 1 | 24 | 19.03 | 18.78 | 18.87 | 5 |
| | | 12 | 0 | 18.74 | 18.63 | 18.66 | 5 |
| | | 12 | 7 | 18.72 | 18.62 | 18.66 | 5 |
| | | 12 | 13 | 18.68 | 18.67 | 18.64 | 5 |
| | | 25 | 0 | 18.77 | 18.64 | 18.65 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 18 615 | 18 900 | 19 185 | |
| | | | | 1 851.5 MHz | 1 880.0 MHz | 1 908.5 MHz | |
| 3 MHz | QPSK | 1 | 0 | 23.72 | 23.65 | 23.55 | 0 |
| | | 1 | 8 | 23.76 | 23.61 | 23.53 | 0 |
| | | 1 | 14 | 23.74 | 23.58 | 23.57 | 0 |
| | | 8 | 0 | 22.74 | 22.74 | 22.77 | 1 |
| | | 8 | 4 | 22.74 | 22.73 | 22.71 | 1 |
| | | 8 | 7 | 22.84 | 22.72 | 22.70 | 1 |
| | | 15 | 0 | 22.80 | 22.72 | 22.77 | 1 |
| | 16QAM | 1 | 0 | 23.05 | 22.90 | 22.83 | 1 |
| | | 1 | 8 | 22.95 | 22.77 | 22.84 | 1 |
| | | 1 | 14 | 23.05 | 22.83 | 22.94 | 1 |
| | | 8 | 0 | 21.82 | 21.82 | 21.78 | 2 |
| | | 8 | 4 | 21.81 | 21.75 | 21.75 | 2 |
| | | 8 | 7 | 21.92 | 21.80 | 21.83 | 2 |
| | | 15 | 0 | 21.86 | 21.71 | 21.76 | 2 |
| | 64QAM | 1 | 0 | 21.99 | 21.95 | 21.87 | 2 |
| | | 1 | 8 | 21.86 | 21.86 | 21.67 | 2 |
| | | 1 | 14 | 21.94 | 21.92 | 21.75 | 2 |
| | | 8 | 0 | 20.76 | 20.75 | 20.78 | 3 |
| | | 8 | 4 | 20.83 | 20.69 | 20.69 | 3 |
| | | 8 | 7 | 20.87 | 20.59 | 20.73 | 3 |
| | | 15 | 0 | 20.84 | 20.70 | 20.72 | 3 |
| | 256QAM | 1 | 0 | 18.99 | 18.74 | 18.85 | 5 |
| | | 1 | 8 | 18.66 | 18.71 | 18.85 | 5 |
| | | 1 | 14 | 18.88 | 18.74 | 18.86 | 5 |
| | | 8 | 0 | 18.75 | 18.69 | 18.72 | 5 |
| | | 8 | 4 | 18.73 | 18.53 | 18.64 | 5 |
| | | 8 | 7 | 18.69 | 18.68 | 18.71 | 5 |
| | | 15 | 0 | 18.75 | 18.64 | 18.61 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 18 607 | 18 900 | 19 193 | |
| | | | | 1 850.7 MHz | 1 880.0 MHz | 1 909.3 MHz | |
| 1.4 MHz | QPSK | 1 | 0 | 23.63 | 23.49 | 23.54 | 0 |
| | | 1 | 3 | 23.55 | 23.48 | 23.44 | 0 |
| | | 1 | 5 | 23.68 | 23.57 | 23.60 | 0 |
| | | 3 | 0 | 23.72 | 23.61 | 23.61 | 0 |
| | | 3 | 1 | 23.64 | 23.52 | 23.58 | 0 |
| | | 3 | 3 | 23.66 | 23.62 | 23.60 | 0 |
| | | 6 | 0 | 22.69 | 22.64 | 22.65 | 1 |
| | 16QAM | 1 | 0 | 22.97 | 22.79 | 22.82 | 1 |
| | | 1 | 3 | 22.89 | 22.77 | 22.76 | 1 |
| | | 1 | 5 | 22.91 | 22.96 | 22.88 | 1 |
| | | 3 | 0 | 22.84 | 22.79 | 22.73 | 1 |
| | | 3 | 1 | 22.79 | 22.73 | 22.77 | 1 |
| | | 3 | 3 | 22.80 | 22.69 | 22.82 | 1 |
| | | 6 | 0 | 21.77 | 21.72 | 21.73 | 2 |
| | 64QAM | 1 | 0 | 21.81 | 21.89 | 21.86 | 2 |
| | | 1 | 3 | 21.81 | 21.69 | 21.75 | 2 |
| | | 1 | 5 | 21.82 | 21.83 | 21.86 | 2 |
| | | 3 | 0 | 21.77 | 21.71 | 21.69 | 2 |
| | | 3 | 1 | 21.84 | 21.67 | 21.60 | 2 |
| | | 3 | 3 | 21.79 | 21.77 | 21.64 | 2 |
| | | 6 | 0 | 20.75 | 20.72 | 20.66 | 3 |
| | 256QAM | 1 | 0 | 18.84 | 18.78 | 18.67 | 5 |
| | | 1 | 3 | 18.80 | 18.55 | 18.66 | 5 |
| | | 1 | 5 | 18.76 | 18.61 | 18.56 | 5 |
| | | 3 | 0 | 18.63 | 18.58 | 18.57 | 5 |
| | | 3 | 1 | 18.65 | 18.52 | 18.51 | 5 |
| | | 3 | 3 | 18.65 | 18.61 | 18.51 | 5 |
| | | 6 | 0 | 18.72 | 18.54 | 18.53 | 5 |

10.5.2 LTE Band 2 (Sub1)

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 18 700 | 18 900 | 19 100 | |
| | | | | 1 860.0 MHz | 1 880.0 MHz | 1 900.0 MHz | |
| 20 MHz | QPSK | 1 | 0 | 24.29 | 23.91 | 24.01 | 0 |
| | | 1 | 49 | 24.37 | 24.07 | 24.32 | 0 |
| | | 1 | 99 | 23.88 | 23.98 | 23.89 | 0 |
| | | 50 | 0 | 23.40 | 23.22 | 22.92 | 1 |
| | | 50 | 24 | 23.47 | 23.27 | 23.22 | 1 |
| | | 50 | 50 | 23.25 | 23.17 | 23.04 | 1 |
| | | 100 | 0 | 23.46 | 23.23 | 23.09 | 1 |
| | 16QAM | 1 | 0 | 23.40 | 22.95 | 23.07 | 1 |
| | | 1 | 49 | 23.21 | 23.11 | 22.80 | 1 |
| | | 1 | 99 | 22.95 | 22.86 | 22.78 | 1 |
| | | 50 | 0 | 22.25 | 21.97 | 22.00 | 2 |
| | | 50 | 24 | 22.20 | 21.91 | 21.98 | 2 |
| | | 50 | 50 | 22.18 | 21.91 | 21.93 | 2 |
| | | 100 | 0 | 22.16 | 21.87 | 21.93 | 2 |
| | 64QAM | 1 | 0 | 22.24 | 22.15 | 22.13 | 2 |
| | | 1 | 49 | 22.38 | 22.04 | 21.90 | 2 |
| | | 1 | 99 | 22.15 | 21.97 | 22.06 | 2 |
| | | 50 | 0 | 21.18 | 20.97 | 20.99 | 3 |
| | | 50 | 24 | 21.20 | 20.98 | 20.92 | 3 |
| | | 50 | 50 | 21.12 | 20.94 | 20.87 | 3 |
| | | 100 | 0 | 21.14 | 20.93 | 20.94 | 3 |
| | 256QAM | 1 | 0 | 19.19 | 19.06 | 19.11 | 5 |
| | | 1 | 49 | 19.10 | 18.79 | 18.66 | 5 |
| | | 1 | 99 | 19.14 | 18.93 | 19.02 | 5 |
| | | 50 | 0 | 19.14 | 18.90 | 18.98 | 5 |
| | | 50 | 24 | 19.12 | 18.88 | 18.85 | 5 |
| | | 50 | 50 | 19.02 | 18.82 | 18.73 | 5 |
| | | 100 | 0 | 19.10 | 18.93 | 18.92 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 18 675 | 18 900 | 19 125 | |
| | | | | 1 857.5 MHz | 1 880.0 MHz | 1 902.5 MHz | |
| 15 MHz | QPSK | 1 | 0 | 24.01 | 23.81 | 23.72 | 0 |
| | | 1 | 36 | 23.90 | 23.70 | 23.67 | 0 |
| | | 1 | 74 | 23.94 | 23.67 | 23.65 | 0 |
| | | 36 | 0 | 23.14 | 22.90 | 22.84 | 1 |
| | | 36 | 18 | 23.14 | 22.85 | 22.80 | 1 |
| | | 36 | 37 | 23.08 | 22.86 | 22.81 | 1 |
| | | 75 | 0 | 23.17 | 22.87 | 22.87 | 1 |
| | 16QAM | 1 | 0 | 23.27 | 23.07 | 22.78 | 1 |
| | | 1 | 36 | 23.17 | 22.95 | 22.95 | 1 |
| | | 1 | 74 | 23.26 | 22.96 | 22.84 | 1 |
| | | 36 | 0 | 22.18 | 21.87 | 21.83 | 2 |
| | | 36 | 18 | 22.16 | 21.89 | 21.87 | 2 |
| | | 36 | 37 | 22.12 | 21.80 | 21.80 | 2 |
| | | 75 | 0 | 22.11 | 21.89 | 21.76 | 2 |
| | 64QAM | 1 | 0 | 22.31 | 21.96 | 22.03 | 2 |
| | | 1 | 36 | 22.15 | 21.88 | 21.77 | 2 |
| | | 1 | 74 | 22.05 | 21.98 | 21.72 | 2 |
| | | 36 | 0 | 21.19 | 20.91 | 20.90 | 3 |
| | | 36 | 18 | 21.12 | 20.86 | 20.82 | 3 |
| | | 36 | 37 | 21.19 | 20.92 | 20.74 | 3 |
| | | 75 | 0 | 21.15 | 20.85 | 20.79 | 3 |
| | 256QAM | 1 | 0 | 19.28 | 19.04 | 19.08 | 5 |
| | | 1 | 36 | 19.36 | 18.92 | 18.79 | 5 |
| | | 1 | 74 | 19.11 | 19.10 | 18.87 | 5 |
| | | 36 | 0 | 19.25 | 18.85 | 18.82 | 5 |
| | | 36 | 18 | 19.18 | 18.85 | 18.82 | 5 |
| | | 36 | 37 | 19.15 | 18.99 | 18.78 | 5 |
| | | 75 | 0 | 19.16 | 18.79 | 18.76 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 18 650 | 18 900 | 19 150 | |
| | | | | 1 855.0 MHz | 1 880.0 MHz | 1 905.0 MHz | |
| 10 MHz | QPSK | 1 | 0 | 23.98 | 23.78 | 23.81 | 0 |
| | | 1 | 25 | 23.84 | 23.68 | 23.69 | 0 |
| | | 1 | 49 | 23.99 | 23.72 | 23.77 | 0 |
| | | 25 | 0 | 23.10 | 22.91 | 22.94 | 1 |
| | | 25 | 12 | 23.06 | 22.94 | 22.93 | 1 |
| | | 25 | 25 | 23.04 | 22.91 | 22.93 | 1 |
| | | 50 | 0 | 23.06 | 22.88 | 22.96 | 1 |
| | 16QAM | 1 | 0 | 23.25 | 23.05 | 23.11 | 1 |
| | | 1 | 25 | 22.98 | 22.93 | 22.85 | 1 |
| | | 1 | 49 | 23.18 | 22.88 | 22.93 | 1 |
| | | 25 | 0 | 22.10 | 21.92 | 21.93 | 2 |
| | | 25 | 12 | 22.03 | 21.88 | 21.93 | 2 |
| | | 25 | 25 | 22.09 | 21.83 | 21.88 | 2 |
| | | 50 | 0 | 22.14 | 21.97 | 21.94 | 2 |
| | 64QAM | 1 | 0 | 22.19 | 22.01 | 22.04 | 2 |
| | | 1 | 25 | 22.18 | 21.94 | 21.87 | 2 |
| | | 1 | 49 | 22.23 | 22.04 | 21.94 | 2 |
| | | 25 | 0 | 21.10 | 20.84 | 20.89 | 3 |
| | | 25 | 12 | 21.04 | 20.92 | 20.91 | 3 |
| | | 25 | 25 | 21.13 | 20.86 | 20.92 | 3 |
| | | 50 | 0 | 21.16 | 20.92 | 20.90 | 3 |
| | 256QAM | 1 | 0 | 19.12 | 19.05 | 18.90 | 5 |
| | | 1 | 25 | 19.23 | 18.90 | 18.92 | 5 |
| | | 1 | 49 | 19.20 | 19.03 | 18.92 | 5 |
| | | 25 | 0 | 19.13 | 18.88 | 18.86 | 5 |
| | | 25 | 12 | 19.13 | 18.90 | 18.88 | 5 |
| | | 25 | 25 | 19.13 | 18.88 | 18.88 | 5 |
| | | 50 | 0 | 19.11 | 18.87 | 18.86 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 18 625 | 18 900 | 19 175 | |
| | | | | 1 852.5 MHz | 1 880.0 MHz | 1 907.5 MHz | |
| 5 MHz | QPSK | 1 | 0 | 23.93 | 23.82 | 23.73 | 0 |
| | | 1 | 12 | 23.96 | 23.85 | 23.74 | 0 |
| | | 1 | 24 | 24.00 | 23.83 | 23.79 | 0 |
| | | 12 | 0 | 23.14 | 22.87 | 22.83 | 1 |
| | | 12 | 7 | 23.03 | 22.90 | 22.86 | 1 |
| | | 12 | 13 | 23.04 | 22.88 | 22.81 | 1 |
| | | 25 | 0 | 23.08 | 22.92 | 22.89 | 1 |
| | 16QAM | 1 | 0 | 23.05 | 22.96 | 22.91 | 1 |
| | | 1 | 12 | 23.18 | 23.03 | 23.01 | 1 |
| | | 1 | 24 | 23.22 | 23.16 | 22.80 | 1 |
| | | 12 | 0 | 22.04 | 21.95 | 21.92 | 2 |
| | | 12 | 7 | 22.07 | 21.92 | 21.81 | 2 |
| | | 12 | 13 | 22.12 | 21.85 | 21.86 | 2 |
| | | 25 | 0 | 22.05 | 21.90 | 21.84 | 2 |
| | 64QAM | 1 | 0 | 22.17 | 21.93 | 21.80 | 2 |
| | | 1 | 12 | 22.08 | 21.89 | 21.88 | 2 |
| | | 1 | 24 | 22.16 | 21.97 | 21.84 | 2 |
| | | 12 | 0 | 21.21 | 20.90 | 20.87 | 3 |
| | | 12 | 7 | 21.11 | 21.85 | 20.78 | 3 |
| | | 12 | 13 | 21.10 | 20.89 | 20.85 | 3 |
| | | 25 | 0 | 20.99 | 20.87 | 20.83 | 3 |
| | 256QAM | 1 | 0 | 19.26 | 18.92 | 18.85 | 5 |
| | | 1 | 12 | 19.25 | 18.99 | 19.01 | 5 |
| | | 1 | 24 | 19.12 | 19.02 | 18.90 | 5 |
| | | 12 | 0 | 19.06 | 18.85 | 18.87 | 5 |
| | | 12 | 7 | 19.05 | 18.81 | 18.76 | 5 |
| | | 12 | 13 | 19.07 | 18.85 | 18.83 | 5 |
| | | 25 | 0 | 19.09 | 18.85 | 18.86 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 18 615 | 18 900 | 19 185 | |
| | | | | 1 851.5 MHz | 1 880.0 MHz | 1 908.5 MHz | |
| 3 MHz | QPSK | 1 | 0 | 23.94 | 23.77 | 23.68 | 0 |
| | | 1 | 8 | 23.92 | 23.74 | 23.67 | 0 |
| | | 1 | 14 | 24.00 | 23.80 | 23.72 | 0 |
| | | 8 | 0 | 23.07 | 22.85 | 22.79 | 1 |
| | | 8 | 4 | 22.98 | 22.87 | 22.79 | 1 |
| | | 8 | 7 | 22.98 | 22.79 | 22.75 | 1 |
| | | 15 | 0 | 23.04 | 22.92 | 22.84 | 1 |
| | 16QAM | 1 | 0 | 23.21 | 23.16 | 22.92 | 1 |
| | | 1 | 8 | 23.09 | 22.98 | 22.84 | 1 |
| | | 1 | 14 | 23.10 | 22.90 | 22.82 | 1 |
| | | 8 | 0 | 22.03 | 21.85 | 21.79 | 2 |
| | | 8 | 4 | 22.11 | 21.83 | 21.84 | 2 |
| | | 8 | 7 | 22.05 | 21.82 | 21.84 | 2 |
| | | 15 | 0 | 22.01 | 21.88 | 21.80 | 2 |
| | 64QAM | 1 | 0 | 22.11 | 21.99 | 21.89 | 2 |
| | | 1 | 8 | 22.16 | 21.83 | 21.97 | 2 |
| | | 1 | 14 | 22.18 | 22.07 | 21.90 | 2 |
| | | 8 | 0 | 21.99 | 20.93 | 20.78 | 3 |
| | | 8 | 4 | 20.96 | 20.88 | 20.81 | 3 |
| | | 8 | 7 | 21.02 | 20.84 | 20.85 | 3 |
| | | 15 | 0 | 21.06 | 20.80 | 20.83 | 3 |
| | 256QAM | 1 | 0 | 19.09 | 18.94 | 18.95 | 5 |
| | | 1 | 8 | 19.13 | 18.90 | 18.91 | 5 |
| | | 1 | 14 | 19.13 | 18.98 | 18.96 | 5 |
| | | 8 | 0 | 19.07 | 18.80 | 18.80 | 5 |
| | | 8 | 4 | 19.01 | 18.83 | 18.88 | 5 |
| | | 8 | 7 | 19.00 | 18.86 | 18.92 | 5 |
| | | 15 | 0 | 19.04 | 18.87 | 18.85 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 18 607 | 18 900 | 19 193 | |
| | | | | 1 850.7 MHz | 1 880.0 MHz | 1 909.3 MHz | |
| 1.4 MHz | QPSK | 1 | 0 | 23.89 | 23.71 | 23.75 | 0 |
| | | 1 | 3 | 23.91 | 23.65 | 23.71 | 0 |
| | | 1 | 5 | 23.94 | 23.78 | 23.69 | 0 |
| | | 3 | 0 | 23.91 | 23.75 | 23.71 | 0 |
| | | 3 | 1 | 23.94 | 23.78 | 23.77 | 0 |
| | | 3 | 3 | 23.89 | 23.77 | 23.71 | 0 |
| | | 6 | 0 | 23.05 | 22.89 | 22.78 | 1 |
| | 16QAM | 1 | 0 | 23.05 | 22.82 | 23.04 | 1 |
| | | 1 | 3 | 23.10 | 22.86 | 22.84 | 1 |
| | | 1 | 5 | 23.12 | 22.89 | 22.93 | 1 |
| | | 3 | 0 | 23.07 | 22.88 | 22.79 | 1 |
| | | 3 | 1 | 23.06 | 22.80 | 22.87 | 1 |
| | | 3 | 3 | 23.12 | 22.88 | 22.81 | 1 |
| | | 6 | 0 | 21.98 | 21.88 | 21.81 | 2 |
| | 64QAM | 1 | 0 | 22.16 | 21.88 | 21.81 | 2 |
| | | 1 | 3 | 22.16 | 21.85 | 21.89 | 2 |
| | | 1 | 5 | 22.22 | 21.99 | 22.01 | 2 |
| | | 3 | 0 | 22.06 | 21.80 | 21.78 | 2 |
| | | 3 | 1 | 22.05 | 21.91 | 21.73 | 2 |
| | | 3 | 3 | 22.01 | 21.76 | 21.79 | 2 |
| | | 6 | 0 | 21.05 | 20.90 | 20.72 | 3 |
| | 256QAM | 1 | 0 | 19.17 | 18.79 | 18.83 | 5 |
| | | 1 | 3 | 19.21 | 18.86 | 18.91 | 5 |
| | | 1 | 5 | 19.12 | 19.01 | 18.80 | 5 |
| | | 3 | 0 | 19.03 | 18.77 | 18.80 | 5 |
| | | 3 | 1 | 19.11 | 18.91 | 18.85 | 5 |
| | | 3 | 3 | 19.10 | 18.86 | 18.87 | 5 |
| | | 6 | 0 | 19.10 | 18.84 | 18.82 | 5 |

10.5.3 LTE Band 5

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | |
|------------|------------|---------|-----------|-----------------------|-----|
| | | | | 20 525 | MPR |
| | | | | 836.5 MHz | |
| 10 MHz | QPSK | 1 | 0 | 24.09 | 0 |
| | | 1 | 25 | 23.84 | 0 |
| | | 1 | 49 | 23.96 | 0 |
| | | 25 | 0 | 23.25 | 1 |
| | | 25 | 12 | 23.19 | 1 |
| | | 25 | 25 | 23.13 | 1 |
| | | 50 | 0 | 23.24 | 1 |
| | 16QAM | 1 | 0 | 23.25 | 1 |
| | | 1 | 25 | 23.05 | 1 |
| | | 1 | 49 | 23.14 | 1 |
| | | 25 | 0 | 22.13 | 2 |
| | | 25 | 12 | 22.08 | 2 |
| | | 25 | 25 | 22.09 | 2 |
| | | 50 | 0 | 22.11 | 2 |
| | 64QAM | 1 | 0 | 22.12 | 2 |
| | | 1 | 25 | 22.11 | 2 |
| | | 1 | 49 | 22.19 | 2 |
| | | 25 | 0 | 21.14 | 3 |
| | | 25 | 12 | 21.12 | 3 |
| | | 25 | 25 | 21.08 | 3 |
| | | 50 | 0 | 21.16 | 3 |
| | 256QAM | 1 | 0 | 19.15 | 5 |
| | | 1 | 25 | 19.12 | 5 |
| | | 1 | 49 | 19.16 | 5 |
| | | 25 | 0 | 19.11 | 5 |
| | | 25 | 12 | 19.09 | 5 |
| | | 25 | 25 | 19.08 | 5 |
| | | 50 | 0 | 19.05 | 5 |

10 MHz Bandwidths does not support at least three non-overlapping channels in certain channel bandwidths. 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 per KDB 941225 D05 SAR for LTE Devices.

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-----------|-----------|-----|
| | | | | 20 425 | 20 525 | 20 625 | |
| | | | | 826.5 MHz | 836.5 MHz | 846.5 MHz | |
| 5 MHz | QPSK | 1 | 0 | 23.93 | 23.96 | 23.84 | 0 |
| | | 1 | 12 | 24.01 | 24.00 | 23.94 | 0 |
| | | 1 | 24 | 23.97 | 23.90 | 23.76 | 0 |
| | | 12 | 0 | 23.07 | 23.07 | 22.94 | 1 |
| | | 12 | 7 | 23.03 | 23.09 | 22.96 | 1 |
| | | 12 | 13 | 23.02 | 23.01 | 22.98 | 1 |
| | | 25 | 0 | 23.11 | 23.18 | 23.07 | 1 |
| | 16QAM | 1 | 0 | 23.19 | 23.19 | 23.14 | 1 |
| | | 1 | 12 | 23.03 | 23.02 | 22.87 | 1 |
| | | 1 | 24 | 23.09 | 23.09 | 22.99 | 1 |
| | | 12 | 0 | 22.10 | 22.08 | 22.02 | 2 |
| | | 12 | 7 | 22.06 | 22.08 | 21.95 | 2 |
| | | 12 | 13 | 22.09 | 22.03 | 21.95 | 2 |
| | | 25 | 0 | 22.06 | 22.11 | 21.97 | 2 |
| | 64QAM | 1 | 0 | 22.19 | 22.22 | 22.09 | 2 |
| | | 1 | 12 | 22.08 | 22.22 | 22.10 | 2 |
| | | 1 | 24 | 22.20 | 22.13 | 22.03 | 2 |
| | | 12 | 0 | 21.12 | 21.08 | 21.04 | 3 |
| | | 12 | 7 | 21.09 | 21.07 | 20.95 | 3 |
| | | 12 | 13 | 21.06 | 21.09 | 20.99 | 3 |
| | | 25 | 0 | 21.08 | 21.12 | 20.94 | 3 |
| | 256QAM | 1 | 0 | 19.30 | 19.31 | 19.05 | 5 |
| | | 1 | 12 | 18.99 | 19.05 | 19.04 | 5 |
| | | 1 | 24 | 19.17 | 19.16 | 18.89 | 5 |
| | | 12 | 0 | 19.09 | 19.05 | 18.97 | 5 |
| | | 12 | 7 | 19.01 | 19.01 | 18.92 | 5 |
| | | 12 | 13 | 19.05 | 19.03 | 18.92 | 5 |
| | | 25 | 0 | 19.10 | 19.09 | 18.97 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-----------|-----------|-----|
| | | | | 20 415 | 20 525 | 20 635 | |
| | | | | 825.5 MHz | 836.5 MHz | 847.5 MHz | |
| 3 MHz | QPSK | 1 | 0 | 23.92 | 23.93 | 23.80 | 0 |
| | | 1 | 8 | 23.80 | 23.77 | 23.65 | 0 |
| | | 1 | 14 | 23.80 | 23.84 | 23.74 | 0 |
| | | 8 | 0 | 23.00 | 22.98 | 22.83 | 1 |
| | | 8 | 4 | 22.92 | 22.91 | 22.78 | 1 |
| | | 8 | 7 | 22.97 | 22.91 | 22.84 | 1 |
| | | 15 | 0 | 23.06 | 22.98 | 22.87 | 1 |
| | 16QAM | 1 | 0 | 23.13 | 23.04 | 22.96 | 1 |
| | | 1 | 8 | 23.08 | 22.99 | 22.85 | 1 |
| | | 1 | 14 | 22.94 | 23.05 | 22.81 | 1 |
| | | 8 | 0 | 22.10 | 21.96 | 21.85 | 2 |
| | | 8 | 4 | 22.08 | 21.95 | 21.83 | 2 |
| | | 8 | 7 | 21.98 | 21.99 | 21.85 | 2 |
| | | 15 | 0 | 22.00 | 21.96 | 21.90 | 2 |
| | 64QAM | 1 | 0 | 22.20 | 22.19 | 21.99 | 2 |
| | | 1 | 8 | 22.06 | 22.05 | 21.91 | 2 |
| | | 1 | 14 | 22.12 | 22.03 | 21.96 | 2 |
| | | 8 | 0 | 21.06 | 20.93 | 20.83 | 3 |
| | | 8 | 4 | 21.00 | 20.93 | 20.85 | 3 |
| | | 8 | 7 | 21.08 | 21.03 | 20.88 | 3 |
| | | 15 | 0 | 21.06 | 20.98 | 20.91 | 3 |
| | 256QAM | 1 | 0 | 19.08 | 19.08 | 18.96 | 5 |
| | | 1 | 8 | 18.88 | 18.99 | 18.91 | 5 |
| | | 1 | 14 | 19.05 | 19.05 | 19.00 | 5 |
| | | 8 | 0 | 19.00 | 18.99 | 18.80 | 5 |
| | | 8 | 4 | 18.96 | 18.97 | 18.84 | 5 |
| | | 8 | 7 | 18.94 | 18.97 | 18.84 | 5 |
| | | 15 | 0 | 18.95 | 18.98 | 18.82 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-----------|-----------|-----|
| | | | | 20 407 | 20 525 | 20 643 | |
| | | | | 824.7 MHz | 836.5 MHz | 848.3 MHz | |
| 1.4 MHz | QPSK | 1 | 0 | 23.86 | 23.87 | 23.74 | 0 |
| | | 1 | 3 | 23.84 | 23.71 | 23.72 | 0 |
| | | 1 | 5 | 23.91 | 23.91 | 23.78 | 0 |
| | | 3 | 0 | 23.94 | 23.92 | 23.77 | 0 |
| | | 3 | 1 | 23.84 | 23.83 | 23.73 | 0 |
| | | 3 | 3 | 23.93 | 23.91 | 23.75 | 0 |
| | | 6 | 0 | 23.05 | 22.95 | 22.80 | 1 |
| | 16QAM | 1 | 0 | 23.00 | 23.19 | 23.00 | 1 |
| | | 1 | 3 | 23.07 | 23.05 | 22.79 | 1 |
| | | 1 | 5 | 23.18 | 23.16 | 22.93 | 1 |
| | | 3 | 0 | 23.07 | 23.03 | 22.96 | 1 |
| | | 3 | 1 | 23.06 | 23.05 | 22.86 | 1 |
| | | 3 | 3 | 23.01 | 23.00 | 22.79 | 1 |
| | | 6 | 0 | 22.01 | 21.98 | 21.89 | 2 |
| | 64QAM | 1 | 0 | 22.23 | 21.98 | 22.05 | 2 |
| | | 1 | 3 | 22.20 | 21.99 | 21.93 | 2 |
| | | 1 | 5 | 22.16 | 22.10 | 22.05 | 2 |
| | | 3 | 0 | 22.10 | 22.04 | 21.86 | 2 |
| | | 3 | 1 | 22.01 | 21.97 | 21.83 | 2 |
| | | 3 | 3 | 22.07 | 21.97 | 21.79 | 2 |
| | | 6 | 0 | 21.05 | 21.00 | 20.79 | 3 |
| | 256QAM | 1 | 0 | 19.20 | 19.16 | 18.84 | 5 |
| | | 1 | 3 | 19.17 | 18.95 | 18.88 | 5 |
| | | 1 | 5 | 19.12 | 19.01 | 18.90 | 5 |
| | | 3 | 0 | 18.98 | 18.96 | 18.89 | 5 |
| | | 3 | 1 | 18.98 | 19.00 | 18.80 | 5 |
| | | 3 | 3 | 19.02 | 18.94 | 18.78 | 5 |
| | | 6 | 0 | 18.96 | 19.00 | 18.81 | 5 |

10.5.4 LTE Band 12

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | |
|------------|------------|---------|-----------|-----------------------|-----|
| | | | | 23 095 | MPR |
| | | | | 707.5 MHz | |
| 10 MHz | QPSK | 1 | 0 | 24.07 | 0 |
| | | 1 | 25 | 23.66 | 0 |
| | | 1 | 49 | 23.83 | 0 |
| | | 25 | 0 | 23.20 | 1 |
| | | 25 | 12 | 23.01 | 1 |
| | | 25 | 25 | 22.95 | 1 |
| | | 50 | 0 | 23.15 | 1 |
| | 16QAM | 1 | 0 | 23.20 | 1 |
| | | 1 | 25 | 23.04 | 1 |
| | | 1 | 49 | 23.03 | 1 |
| | | 25 | 0 | 21.99 | 2 |
| | | 25 | 12 | 21.95 | 2 |
| | | 25 | 25 | 21.95 | 2 |
| | | 50 | 0 | 22.06 | 2 |
| | 64QAM | 1 | 0 | 22.10 | 2 |
| | | 1 | 25 | 21.96 | 2 |
| | | 1 | 49 | 21.92 | 2 |
| | | 25 | 0 | 21.00 | 3 |
| | | 25 | 12 | 20.93 | 3 |
| | | 25 | 25 | 20.90 | 3 |
| | | 50 | 0 | 20.99 | 3 |
| | 256QAM | 1 | 0 | 19.01 | 5 |
| | | 1 | 25 | 18.86 | 5 |
| | | 1 | 49 | 18.96 | 5 |
| | | 25 | 0 | 18.96 | 5 |
| | | 25 | 12 | 18.92 | 5 |
| | | 25 | 25 | 18.92 | 5 |
| | | 50 | 0 | 18.91 | 5 |

10 MHz Bandwidths does not support at least three non-overlapping channels in certain channel bandwidths. 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 per KDB 941225 D05 SAR for LTE Devices.

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-----------|-----------|-----|
| | | | | 23 035 | 23 095 | 23 155 | |
| | | | | 701.5 MHz | 707.5 MHz | 713.5 MHz | |
| 5 MHz | QPSK | 1 | 0 | 23.90 | 23.92 | 23.77 | 0 |
| | | 1 | 12 | 24.04 | 23.91 | 23.78 | 0 |
| | | 1 | 24 | 23.99 | 23.86 | 23.69 | 0 |
| | | 12 | 0 | 23.05 | 22.96 | 22.92 | 1 |
| | | 12 | 7 | 23.03 | 22.93 | 22.87 | 1 |
| | | 12 | 13 | 22.95 | 22.92 | 22.86 | 1 |
| | | 25 | 0 | 23.17 | 23.06 | 23.01 | 1 |
| | 16QAM | 1 | 0 | 23.25 | 23.14 | 23.17 | 1 |
| | | 1 | 12 | 23.05 | 22.84 | 22.95 | 1 |
| | | 1 | 24 | 23.09 | 23.05 | 22.85 | 1 |
| | | 12 | 0 | 22.02 | 21.94 | 21.94 | 2 |
| | | 12 | 7 | 22.04 | 21.98 | 21.93 | 2 |
| | | 12 | 13 | 22.07 | 21.88 | 21.87 | 2 |
| | | 25 | 0 | 22.06 | 21.98 | 21.97 | 2 |
| | 64QAM | 1 | 0 | 22.23 | 21.97 | 22.05 | 2 |
| | | 1 | 12 | 22.22 | 22.08 | 21.89 | 2 |
| | | 1 | 24 | 22.13 | 22.02 | 22.01 | 2 |
| | | 12 | 0 | 20.98 | 21.00 | 20.87 | 3 |
| | | 12 | 7 | 21.04 | 20.94 | 20.85 | 3 |
| | | 12 | 13 | 21.01 | 20.89 | 20.81 | 3 |
| | | 25 | 0 | 21.07 | 20.99 | 20.87 | 3 |
| | 256QAM | 1 | 0 | 19.11 | 19.13 | 18.87 | 5 |
| | | 1 | 12 | 19.02 | 18.97 | 19.09 | 5 |
| | | 1 | 24 | 19.04 | 18.94 | 18.87 | 5 |
| | | 12 | 0 | 19.01 | 18.89 | 18.88 | 5 |
| | | 12 | 7 | 18.96 | 18.88 | 18.83 | 5 |
| | | 12 | 13 | 18.96 | 18.89 | 18.78 | 5 |
| | | 25 | 0 | 19.06 | 18.96 | 18.93 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-----------|-----------|-----|
| | | | | 23 025 | 23 095 | 23 165 | |
| | | | | 700.5 MHz | 707.5 MHz | 714.5 MHz | |
| 3 MHz | QPSK | 1 | 0 | 23.98 | 23.81 | 23.76 | 0 |
| | | 1 | 8 | 23.84 | 23.74 | 23.70 | 0 |
| | | 1 | 14 | 23.92 | 23.80 | 23.67 | 0 |
| | | 8 | 0 | 23.10 | 22.85 | 22.85 | 1 |
| | | 8 | 4 | 22.98 | 22.81 | 22.80 | 1 |
| | | 8 | 7 | 23.03 | 22.90 | 22.84 | 1 |
| | | 15 | 0 | 23.08 | 22.96 | 22.87 | 1 |
| | 16QAM | 1 | 0 | 23.22 | 23.02 | 22.95 | 1 |
| | | 1 | 8 | 23.18 | 23.02 | 22.85 | 1 |
| | | 1 | 14 | 23.15 | 23.02 | 22.99 | 1 |
| | | 8 | 0 | 22.07 | 21.90 | 21.86 | 2 |
| | | 8 | 4 | 22.01 | 21.92 | 21.82 | 2 |
| | | 8 | 7 | 21.98 | 21.95 | 21.89 | 2 |
| | | 15 | 0 | 22.05 | 21.82 | 21.74 | 2 |
| | 64QAM | 1 | 0 | 22.05 | 21.96 | 21.89 | 2 |
| | | 1 | 8 | 22.02 | 21.89 | 21.86 | 2 |
| | | 1 | 14 | 22.11 | 21.95 | 21.91 | 2 |
| | | 8 | 0 | 20.98 | 20.83 | 20.82 | 3 |
| | | 8 | 4 | 20.99 | 20.87 | 20.83 | 3 |
| | | 8 | 7 | 21.01 | 20.87 | 20.81 | 3 |
| | | 15 | 0 | 20.96 | 20.89 | 20.84 | 3 |
| | 256QAM | 1 | 0 | 19.12 | 18.92 | 18.96 | 5 |
| | | 1 | 8 | 18.95 | 18.84 | 18.84 | 5 |
| | | 1 | 14 | 19.05 | 18.99 | 18.87 | 5 |
| | | 8 | 0 | 18.99 | 18.84 | 18.81 | 5 |
| | | 8 | 4 | 19.04 | 18.86 | 18.78 | 5 |
| | | 8 | 7 | 19.02 | 18.88 | 18.83 | 5 |
| | | 15 | 0 | 19.03 | 18.84 | 18.76 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-----------|-----------|-----|
| | | | | 23 017 | 23 095 | 23 173 | |
| | | | | 699.7 MHz | 707.5 MHz | 715.3 MHz | |
| 1.4 MHz | QPSK | 1 | 0 | 23.91 | 23.77 | 23.74 | 0 |
| | | 1 | 3 | 23.80 | 23.70 | 23.59 | 0 |
| | | 1 | 5 | 23.93 | 23.82 | 23.75 | 0 |
| | | 3 | 0 | 23.93 | 23.78 | 23.76 | 0 |
| | | 3 | 1 | 23.80 | 23.78 | 23.70 | 0 |
| | | 3 | 3 | 23.97 | 23.79 | 23.71 | 0 |
| | | 6 | 0 | 22.97 | 22.90 | 22.84 | 1 |
| | 16QAM | 1 | 0 | 23.14 | 23.11 | 22.92 | 1 |
| | | 1 | 3 | 23.00 | 22.92 | 22.87 | 1 |
| | | 1 | 5 | 23.00 | 22.93 | 22.87 | 1 |
| | | 3 | 0 | 23.00 | 22.96 | 22.86 | 1 |
| | | 3 | 1 | 23.06 | 23.06 | 22.89 | 1 |
| | | 3 | 3 | 22.94 | 22.87 | 22.77 | 1 |
| | | 6 | 0 | 22.03 | 21.84 | 21.79 | 2 |
| | 64QAM | 1 | 0 | 22.22 | 21.90 | 21.98 | 2 |
| | | 1 | 3 | 21.95 | 21.77 | 21.70 | 2 |
| | | 1 | 5 | 22.06 | 21.93 | 21.96 | 2 |
| | | 3 | 0 | 22.02 | 21.83 | 21.86 | 2 |
| | | 3 | 1 | 22.13 | 21.87 | 21.87 | 2 |
| | | 3 | 3 | 21.96 | 21.97 | 21.81 | 2 |
| | | 6 | 0 | 20.90 | 20.89 | 20.75 | 3 |
| | 256QAM | 1 | 0 | 18.97 | 18.94 | 18.75 | 5 |
| | | 1 | 3 | 18.91 | 18.76 | 18.84 | 5 |
| | | 1 | 5 | 19.01 | 18.97 | 18.82 | 5 |
| | | 3 | 0 | 19.06 | 18.91 | 18.80 | 5 |
| | | 3 | 1 | 19.00 | 18.94 | 18.72 | 5 |
| | | 3 | 3 | 18.98 | 18.80 | 18.79 | 5 |
| | | 6 | 0 | 18.88 | 18.84 | 18.75 | 5 |

10.5.5 LTE Band 13

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | MPR |
|------------|------------|---------|-----------|-----------------------------|---|-----|
| | | | | 23 230 | | |
| | | | | 782.0 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 23.78 | 0 | |
| | | 1 | 25 | 23.58 | 0 | |
| | | 1 | 49 | 23.60 | 0 | |
| | | 25 | 0 | 22.91 | 1 | |
| | | 25 | 12 | 22.81 | 1 | |
| | | 25 | 25 | 22.79 | 1 | |
| | | 50 | 0 | 22.90 | 1 | |
| | 16QAM | 1 | 0 | 23.03 | 1 | |
| | | 1 | 25 | 22.80 | 1 | |
| | | 1 | 49 | 22.90 | 1 | |
| | | 25 | 0 | 21.84 | 2 | |
| | | 25 | 12 | 21.84 | 2 | |
| | | 25 | 25 | 21.83 | 2 | |
| | | 50 | 0 | 21.87 | 2 | |
| | 64QAM | 1 | 0 | 22.01 | 2 | |
| | | 1 | 25 | 21.81 | 2 | |
| | | 1 | 49 | 21.82 | 2 | |
| | | 25 | 0 | 20.83 | 3 | |
| | | 25 | 12 | 20.85 | 3 | |
| | | 25 | 25 | 20.74 | 3 | |
| | | 50 | 0 | 20.92 | 3 | |
| | 256QAM | 1 | 0 | 18.94 | 5 | |
| | | 1 | 25 | 18.75 | 5 | |
| | | 1 | 49 | 18.90 | 5 | |
| | | 25 | 0 | 18.84 | 5 | |
| | | 25 | 12 | 18.76 | 5 | |
| | | 25 | 25 | 18.71 | 5 | |
| | | 50 | 0 | 18.83 | 5 | |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | MPR |
|------------|------------|---------|-----------|-----------------------------|---|-----|
| | | | | 23 230 | | |
| | | | | 782.0 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 23.67 | 0 | |
| | | 1 | 12 | 23.68 | 0 | |
| | | 1 | 24 | 23.67 | 0 | |
| | | 12 | 0 | 22.79 | 1 | |
| | | 12 | 7 | 22.73 | 1 | |
| | | 12 | 13 | 22.73 | 1 | |
| | | 25 | 0 | 22.81 | 1 | |
| | 16QAM | 1 | 0 | 22.87 | 1 | |
| | | 1 | 12 | 22.69 | 1 | |
| | | 1 | 24 | 22.82 | 1 | |
| | | 12 | 0 | 21.76 | 2 | |
| | | 12 | 7 | 21.74 | 2 | |
| | | 12 | 13 | 21.79 | 2 | |
| | | 25 | 0 | 21.81 | 2 | |
| | 64QAM | 1 | 0 | 21.89 | 2 | |
| | | 1 | 12 | 21.76 | 2 | |
| | | 1 | 24 | 21.78 | 2 | |
| | | 12 | 0 | 20.83 | 3 | |
| | | 12 | 7 | 20.77 | 3 | |
| | | 12 | 13 | 20.74 | 3 | |
| | | 25 | 0 | 20.77 | 3 | |
| | 256QAM | 1 | 0 | 18.91 | 5 | |
| | | 1 | 12 | 18.79 | 5 | |
| | | 1 | 24 | 18.74 | 5 | |
| | | 12 | 0 | 18.74 | 5 | |
| | | 12 | 7 | 18.65 | 5 | |
| | | 12 | 13 | 18.69 | 5 | |
| | | 25 | 0 | 18.77 | 5 | |

5 MHz Bandwidths does not support at least three non-overlapping channels in certain channel bandwidths. 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 per KDB 941225 D05 SAR for LTE Devices.

10.5.6 LTE Band 26

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | |
|------------|------------|---------|-----------|-----------------------------|-----|
| | | | | 26 865 | MPR |
| | | | | 831.5 MHz | |
| 15 MHz | QPSK | 1 | 0 | 23.94 | 0 |
| | | 1 | 36 | 23.80 | 0 |
| | | 1 | 74 | 23.88 | 0 |
| | | 36 | 0 | 23.05 | 1 |
| | | 36 | 18 | 23.01 | 1 |
| | | 36 | 37 | 23.03 | 1 |
| | | 75 | 0 | 23.03 | 1 |
| | 16QAM | 1 | 0 | 23.23 | 1 |
| | | 1 | 36 | 23.09 | 1 |
| | | 1 | 74 | 23.07 | 1 |
| | | 36 | 0 | 22.03 | 2 |
| | | 36 | 18 | 22.01 | 2 |
| | | 36 | 37 | 21.95 | 2 |
| | | 75 | 0 | 22.02 | 2 |
| | 64QAM | 1 | 0 | 22.30 | 2 |
| | | 1 | 36 | 22.09 | 2 |
| | | 1 | 74 | 22.13 | 2 |
| | | 36 | 0 | 21.01 | 3 |
| | | 36 | 18 | 21.01 | 3 |
| | | 36 | 37 | 20.95 | 3 |
| | | 75 | 0 | 21.00 | 3 |
| | 256QAM | 1 | 0 | 19.20 | 5 |
| | | 1 | 36 | 18.91 | 5 |
| | | 1 | 74 | 18.91 | 5 |
| | | 36 | 0 | 19.04 | 5 |
| | | 36 | 18 | 18.95 | 5 |
| | | 36 | 37 | 18.97 | 5 |
| | | 75 | 0 | 19.01 | 5 |

15 MHz Bandwidths does not support at least three non-overlapping channels in certain channel bandwidths. 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 per KDB 941225 D05 SAR for LTE Devices.

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | | MPR |
|------------|------------|---------|-----------|-----------------------------|-----------|-----------|-----|
| | | | | 26 740 | 26 865 | 26 990 | |
| | | | | 819.0 MHz | 831.5 MHz | 844.0 MHz | |
| 10 MHz | QPSK | 1 | 0 | 23.92 | 23.96 | 23.83 | 0 |
| | | 1 | 25 | 23.80 | 23.69 | 23.63 | 0 |
| | | 1 | 49 | 23.82 | 23.93 | 23.79 | 0 |
| | | 25 | 0 | 23.05 | 23.09 | 23.05 | 1 |
| | | 25 | 12 | 23.00 | 23.05 | 22.94 | 1 |
| | | 25 | 25 | 22.97 | 23.00 | 22.97 | 1 |
| | | 50 | 0 | 23.08 | 23.09 | 23.04 | 1 |
| | 16QAM | 1 | 0 | 23.04 | 23.18 | 23.05 | 1 |
| | | 1 | 25 | 22.92 | 22.89 | 22.94 | 1 |
| | | 1 | 49 | 22.99 | 23.03 | 22.91 | 1 |
| | | 25 | 0 | 21.98 | 22.05 | 21.99 | 2 |
| | | 25 | 12 | 21.98 | 22.03 | 21.89 | 2 |
| | | 25 | 25 | 21.97 | 22.02 | 21.90 | 2 |
| | | 50 | 0 | 22.01 | 22.06 | 21.96 | 2 |
| | 64QAM | 1 | 0 | 22.19 | 22.22 | 22.07 | 2 |
| | | 1 | 25 | 22.12 | 22.00 | 22.05 | 2 |
| | | 1 | 49 | 21.96 | 21.93 | 21.90 | 2 |
| | | 25 | 0 | 21.00 | 21.06 | 20.95 | 3 |
| | | 25 | 12 | 21.00 | 20.98 | 20.86 | 3 |
| | | 25 | 25 | 20.99 | 20.96 | 20.89 | 3 |
| | | 50 | 0 | 21.00 | 21.05 | 20.92 | 3 |
| | 256QAM | 1 | 0 | 19.11 | 19.04 | 18.96 | 5 |
| | | 1 | 25 | 19.03 | 18.83 | 18.80 | 5 |
| | | 1 | 49 | 19.01 | 18.96 | 18.85 | 5 |
| | | 25 | 0 | 18.97 | 19.04 | 18.92 | 5 |
| | | 25 | 12 | 19.02 | 18.96 | 18.91 | 5 |
| | | 25 | 25 | 18.96 | 18.95 | 18.89 | 5 |
| | | 50 | 0 | 18.94 | 18.97 | 18.87 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | | MPR |
|------------|------------|---------|-----------|-----------------------------|-----------|-----------|-----|
| | | | | 26 715 | 26 865 | 27 015 | |
| | | | | 816.5 MHz | 831.5 MHz | 846.5 MHz | |
| 5 MHz | QPSK | 1 | 0 | 23.75 | 23.80 | 23.67 | 0 |
| | | 1 | 12 | 23.84 | 23.87 | 23.67 | 0 |
| | | 1 | 24 | 23.72 | 23.78 | 23.63 | 0 |
| | | 12 | 0 | 22.86 | 22.95 | 22.81 | 1 |
| | | 12 | 7 | 22.90 | 22.87 | 22.82 | 1 |
| | | 12 | 13 | 22.88 | 22.91 | 22.78 | 1 |
| | | 25 | 0 | 22.94 | 23.00 | 22.89 | 1 |
| | 16QAM | 1 | 0 | 23.14 | 23.11 | 23.08 | 1 |
| | | 1 | 12 | 23.08 | 22.96 | 22.92 | 1 |
| | | 1 | 24 | 23.02 | 23.00 | 22.85 | 1 |
| | | 12 | 0 | 21.98 | 21.91 | 21.85 | 2 |
| | | 12 | 7 | 21.97 | 22.00 | 21.85 | 2 |
| | | 12 | 13 | 21.90 | 21.93 | 21.85 | 2 |
| | | 25 | 0 | 21.91 | 21.96 | 21.86 | 2 |
| | 64QAM | 1 | 0 | 22.01 | 22.11 | 22.01 | 2 |
| | | 1 | 12 | 22.03 | 22.01 | 21.90 | 2 |
| | | 1 | 24 | 21.98 | 22.04 | 21.83 | 2 |
| | | 12 | 0 | 20.96 | 20.99 | 20.83 | 3 |
| | | 12 | 7 | 20.90 | 20.98 | 20.83 | 3 |
| | | 12 | 13 | 20.94 | 20.95 | 20.82 | 3 |
| | | 25 | 0 | 20.91 | 20.90 | 20.80 | 3 |
| | 256QAM | 1 | 0 | 19.12 | 18.93 | 19.03 | 5 |
| | | 1 | 12 | 19.06 | 19.07 | 18.77 | 5 |
| | | 1 | 24 | 18.96 | 18.93 | 18.94 | 5 |
| | | 12 | 0 | 18.96 | 18.93 | 18.82 | 5 |
| | | 12 | 7 | 18.90 | 18.92 | 18.86 | 5 |
| | | 12 | 13 | 18.90 | 18.90 | 18.83 | 5 |
| | | 25 | 0 | 18.90 | 18.94 | 18.86 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | | MPR |
|------------|------------|---------|-----------|-----------------------------|-----------|-----------|-----|
| | | | | 26 705 | 26 865 | 27 025 | |
| | | | | 815.5 MHz | 831.5 MHz | 847.5 MHz | |
| 3 MHz | QPSK | 1 | 0 | 23.85 | 23.84 | 23.73 | 0 |
| | | 1 | 8 | 23.70 | 23.83 | 23.65 | 0 |
| | | 1 | 14 | 23.80 | 23.84 | 23.68 | 0 |
| | | 8 | 0 | 22.90 | 22.95 | 22.82 | 1 |
| | | 8 | 4 | 22.90 | 22.85 | 22.83 | 1 |
| | | 8 | 7 | 22.93 | 22.93 | 22.86 | 1 |
| | | 15 | 0 | 22.92 | 22.93 | 22.91 | 1 |
| | 16QAM | 1 | 0 | 22.87 | 23.14 | 23.07 | 1 |
| | | 1 | 8 | 23.02 | 23.00 | 22.87 | 1 |
| | | 1 | 14 | 22.94 | 23.07 | 22.89 | 1 |
| | | 8 | 0 | 21.93 | 21.97 | 21.89 | 2 |
| | | 8 | 4 | 21.94 | 22.03 | 21.84 | 2 |
| | | 8 | 7 | 21.96 | 21.99 | 21.90 | 2 |
| | | 15 | 0 | 21.90 | 21.95 | 21.85 | 2 |
| | 64QAM | 1 | 0 | 22.06 | 22.10 | 21.94 | 2 |
| | | 1 | 8 | 21.93 | 21.86 | 21.85 | 2 |
| | | 1 | 14 | 21.99 | 22.15 | 21.95 | 2 |
| | | 8 | 0 | 20.96 | 20.89 | 20.90 | 3 |
| | | 8 | 4 | 20.97 | 21.00 | 20.79 | 3 |
| | | 8 | 7 | 21.01 | 20.99 | 20.83 | 3 |
| | | 15 | 0 | 21.02 | 20.95 | 20.88 | 3 |
| | 256QAM | 1 | 0 | 19.08 | 19.16 | 18.89 | 5 |
| | | 1 | 8 | 18.98 | 19.02 | 18.93 | 5 |
| | | 1 | 14 | 19.00 | 18.98 | 18.82 | 5 |
| | | 8 | 0 | 18.95 | 18.94 | 18.87 | 5 |
| | | 8 | 4 | 18.99 | 18.94 | 18.84 | 5 |
| | | 8 | 7 | 18.98 | 18.99 | 18.86 | 5 |
| | | 15 | 0 | 18.89 | 18.91 | 18.80 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | | MPR |
|------------|------------|---------|-----------|-----------------------------|-----------|-----------|-----|
| | | | | 26 697 | 26 865 | 27 033 | |
| | | | | 814.7 MHz | 831.5 MHz | 848.3 MHz | |
| 1.4 MHz | QPSK | 1 | 0 | 23.76 | 23.83 | 23.70 | 0 |
| | | 1 | 3 | 23.74 | 23.68 | 23.54 | 0 |
| | | 1 | 5 | 23.82 | 23.86 | 23.69 | 0 |
| | | 3 | 0 | 23.85 | 23.91 | 23.72 | 0 |
| | | 3 | 1 | 23.89 | 23.84 | 23.76 | 0 |
| | | 3 | 3 | 23.81 | 23.86 | 23.74 | 0 |
| | | 6 | 0 | 22.86 | 22.93 | 22.79 | 1 |
| | 16QAM | 1 | 0 | 22.96 | 23.10 | 23.01 | 1 |
| | | 1 | 3 | 22.98 | 23.01 | 22.85 | 1 |
| | | 1 | 5 | 23.12 | 23.03 | 22.95 | 1 |
| | | 3 | 0 | 22.95 | 22.93 | 22.83 | 1 |
| | | 3 | 1 | 22.97 | 22.98 | 22.82 | 1 |
| | | 3 | 3 | 22.96 | 22.99 | 22.77 | 1 |
| | | 6 | 0 | 21.95 | 21.89 | 21.81 | 2 |
| | 64QAM | 1 | 0 | 22.14 | 22.13 | 21.99 | 2 |
| | | 1 | 3 | 22.08 | 22.09 | 21.96 | 2 |
| | | 1 | 5 | 21.84 | 22.03 | 21.88 | 2 |
| | | 3 | 0 | 21.90 | 21.91 | 21.84 | 2 |
| | | 3 | 1 | 21.86 | 21.97 | 21.72 | 2 |
| | | 3 | 3 | 21.93 | 21.94 | 21.85 | 2 |
| | | 6 | 0 | 20.91 | 20.95 | 20.74 | 3 |
| | 256QAM | 1 | 0 | 19.05 | 18.98 | 18.99 | 5 |
| | | 1 | 3 | 18.91 | 18.89 | 18.80 | 5 |
| | | 1 | 5 | 18.94 | 18.98 | 18.88 | 5 |
| | | 3 | 0 | 18.93 | 18.88 | 18.83 | 5 |
| | | 3 | 1 | 18.83 | 18.98 | 18.83 | 5 |
| | | 3 | 3 | 18.89 | 18.93 | 18.92 | 5 |
| | | 6 | 0 | 18.87 | 18.86 | 18.77 | 5 |

10.5.7 LTE Band 41(Power Class 2)

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | | | | MPR |
|------------|------------|---------|-----------|-----------------------------|------------|------------|------------|--------------|-----|
| | | | | 39 750 | 40 185 | 40 620 | 41 055 | 41 490 | |
| | | | | 2506.0 MHz | 2549.5 MHz | 2593.0 MHz | 2636.5 MHz | 2680.0 MHz | |
| 20 MHz | QPSK | 1 | 0 | 25.80 | 26.05 | 25.80 | 26.29 | 26.31 | 0 |
| | | 1 | 49 | 25.47 | 25.72 | 25.53 | 26.05 | 25.81 | 0 |
| | | 1 | 99 | 25.79 | 25.91 | 25.79 | 26.25 | 26.16 | 0 |
| | | 50 | 0 | 24.79 | 25.05 | 24.84 | 25.33 | 25.34 | 1 |
| | | 50 | 24 | 24.85 | 25.06 | 24.87 | 25.35 | 25.36 | 1 |
| | | 50 | 50 | 24.83 | 24.95 | 24.81 | 25.31 | 25.30 | 1 |
| | | 100 | 0 | 24.80 | 25.01 | 24.81 | 25.34 | 25.35 | 1 |
| | 16QAM | 1 | 0 | 24.81 | 25.19 | 25.33 | 25.83 | 25.63 | 1 |
| | | 1 | 49 | 24.93 | 25.18 | 25.35 | 25.89 | 25.42 | 1 |
| | | 1 | 99 | 24.93 | 25.03 | 25.28 | 25.75 | 25.49 | 1 |
| | | 50 | 0 | 23.78 | 24.07 | 23.81 | 24.34 | 24.40 | 2 |
| | | 50 | 24 | 23.80 | 24.01 | 23.78 | 24.31 | 24.36 | 2 |
| | | 50 | 50 | 23.81 | 23.96 | 23.76 | 24.29 | 24.34 | 2 |
| | | 100 | 0 | 23.83 | 24.04 | 23.83 | 24.36 | 24.39 | 2 |
| | 64QAM | 1 | 0 | 24.18 | 24.51 | 24.30 | 24.85 | 24.73 | 2 |
| | | 1 | 49 | 24.27 | 24.48 | 24.33 | 24.90 | 24.64 | 2 |
| | | 1 | 99 | 24.20 | 24.30 | 24.22 | 24.73 | 24.56 | 2 |
| | | 50 | 0 | 22.84 | 23.08 | 22.86 | 23.39 | 23.39 | 3 |
| | | 50 | 24 | 22.82 | 23.04 | 22.83 | 23.36 | 23.35 | 3 |
| | | 50 | 50 | 22.84 | 22.99 | 22.82 | 23.34 | 23.32 | 3 |
| | | 100 | 0 | 22.80 | 23.00 | 22.80 | 23.34 | 23.33 | 3 |
| | 256QAM | 1 | 0 | 20.59 | 20.90 | 20.64 | 21.17 | 21.20 | 5 |
| | | 1 | 49 | 20.71 | 20.95 | 20.75 | 21.29 | 21.23 | 5 |
| | | 1 | 99 | 20.62 | 20.69 | 20.58 | 21.07 | 21.08 | 5 |
| | | 50 | 0 | 20.83 | 21.10 | 20.88 | 21.41 | 21.38 | 5 |
| | | 50 | 24 | 20.84 | 21.07 | 20.86 | 21.39 | 21.36 | 5 |
| | | 50 | 50 | 20.86 | 21.00 | 20.85 | 21.36 | 21.33 | 5 |
| | | 100 | 0 | 20.78 | 21.00 | 20.77 | 21.29 | 21.30 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | | | | MPR |
|------------|------------|---------|-----------|-----------------------------|------------|------------|------------|------------|-----|
| | | | | 39 750 | 40 185 | 40 620 | 41 055 | 41 490 | |
| | | | | 2506.0 MHz | 2549.5 MHz | 2593.0 MHz | 2636.5 MHz | 2680.0 MHz | |
| 15 MHz | QPSK | 1 | 0 | 25.69 | 25.87 | 25.79 | 26.27 | 26.11 | 0 |
| | | 1 | 36 | 25.66 | 25.84 | 25.69 | 26.21 | 26.05 | 0 |
| | | 1 | 74 | 25.77 | 25.88 | 25.78 | 26.27 | 26.13 | 0 |
| | | 36 | 0 | 24.77 | 24.99 | 24.82 | 25.34 | 25.28 | 1 |
| | | 36 | 18 | 24.81 | 24.97 | 24.80 | 25.35 | 25.28 | 1 |
| | | 36 | 37 | 24.82 | 24.94 | 24.79 | 25.32 | 25.28 | 1 |
| | | 75 | 0 | 24.79 | 24.97 | 24.80 | 25.32 | 25.28 | 1 |
| | 16QAM | 1 | 0 | 25.12 | 25.46 | 25.03 | 25.52 | 25.66 | 1 |
| | | 1 | 36 | 25.09 | 25.34 | 24.94 | 25.45 | 25.56 | 1 |
| | | 1 | 74 | 25.21 | 25.35 | 25.03 | 25.51 | 25.60 | 1 |
| | | 36 | 0 | 23.75 | 24.04 | 23.84 | 24.36 | 24.30 | 2 |
| | | 36 | 18 | 23.76 | 24.01 | 23.77 | 24.35 | 24.27 | 2 |
| | | 36 | 37 | 23.76 | 23.97 | 23.74 | 24.32 | 24.23 | 2 |
| | | 75 | 0 | 23.83 | 24.00 | 23.79 | 24.33 | 24.32 | 2 |
| | 64QAM | 1 | 0 | 24.14 | 24.46 | 23.92 | 24.45 | 24.71 | 2 |
| | | 1 | 36 | 24.11 | 24.35 | 24.25 | 24.38 | 24.61 | 2 |
| | | 1 | 74 | 24.23 | 24.38 | 24.34 | 24.45 | 24.68 | 2 |
| | | 36 | 0 | 22.81 | 23.01 | 22.82 | 23.34 | 23.36 | 3 |
| | | 36 | 18 | 22.82 | 23.03 | 22.81 | 23.35 | 23.34 | 3 |
| | | 36 | 37 | 22.83 | 22.97 | 22.80 | 23.32 | 23.32 | 3 |
| | | 75 | 0 | 22.79 | 22.99 | 22.79 | 23.33 | 23.31 | 3 |
| | 256QAM | 1 | 0 | 20.36 | 20.92 | 20.62 | 21.07 | 21.16 | 5 |
| | | 1 | 36 | 20.31 | 20.51 | 20.52 | 21.21 | 20.79 | 5 |
| | | 1 | 74 | 20.42 | 20.51 | 20.58 | 21.25 | 20.85 | 5 |
| | | 36 | 0 | 20.72 | 20.99 | 20.75 | 21.27 | 21.26 | 5 |
| | | 36 | 18 | 20.74 | 20.97 | 20.76 | 21.27 | 21.25 | 5 |
| | | 36 | 37 | 20.75 | 20.93 | 20.75 | 21.23 | 21.23 | 5 |
| | | 75 | 0 | 20.76 | 20.97 | 20.76 | 21.28 | 21.27 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | | | | MPR |
|------------|------------|---------|-----------|-----------------------------|------------|------------|------------|------------|-----|
| | | | | 39750 | 40185 | 40620 | 41055 | 41490 | |
| | | | | 2506.0 MHz | 2549.5 MHz | 2593.0 MHz | 2636.5 MHz | 2680.0 MHz | |
| 10 MHz | QPSK | 1 | 0 | 25.67 | 25.92 | 25.80 | 26.30 | 26.23 | 0 |
| | | 1 | 25 | 25.70 | 25.95 | 25.77 | 26.26 | 26.19 | 0 |
| | | 1 | 49 | 25.75 | 25.97 | 25.79 | 26.28 | 25.74 | 0 |
| | | 25 | 0 | 24.77 | 25.06 | 24.82 | 25.34 | 25.36 | 1 |
| | | 25 | 12 | 24.77 | 25.04 | 24.79 | 25.31 | 25.33 | 1 |
| | | 25 | 25 | 24.80 | 25.02 | 24.80 | 25.33 | 25.32 | 1 |
| | | 50 | 0 | 24.81 | 25.03 | 24.81 | 25.32 | 25.35 | 1 |
| | 16QAM | 1 | 0 | 24.83 | 25.17 | 24.93 | 25.42 | 25.68 | 1 |
| | | 1 | 25 | 24.79 | 25.06 | 24.89 | 25.34 | 25.56 | 1 |
| | | 1 | 49 | 24.88 | 25.08 | 24.89 | 25.38 | 25.39 | 1 |
| | | 25 | 0 | 23.78 | 24.06 | 23.86 | 24.33 | 24.36 | 2 |
| | | 25 | 12 | 23.78 | 24.02 | 23.82 | 24.30 | 24.32 | 2 |
| | | 25 | 25 | 23.79 | 24.01 | 23.82 | 24.30 | 24.31 | 2 |
| | | 50 | 0 | 23.81 | 24.03 | 23.81 | 24.31 | 24.36 | 2 |
| | 64QAM | 1 | 0 | 24.25 | 24.47 | 24.07 | 24.73 | 24.57 | 2 |
| | | 1 | 25 | 24.11 | 24.37 | 24.21 | 24.64 | 24.46 | 2 |
| | | 1 | 49 | 24.15 | 24.34 | 24.19 | 24.65 | 24.46 | 2 |
| | | 25 | 0 | 22.78 | 23.06 | 22.76 | 23.33 | 23.31 | 3 |
| | | 25 | 12 | 22.77 | 23.03 | 22.75 | 23.31 | 23.26 | 3 |
| | | 25 | 25 | 22.78 | 23.01 | 22.75 | 23.30 | 23.25 | 3 |
| | | 50 | 0 | 22.84 | 23.08 | 22.80 | 23.35 | 23.36 | 3 |
| | 256QAM | 1 | 0 | 20.59 | 20.84 | 20.77 | 21.12 | 20.95 | 5 |
| | | 1 | 25 | 20.55 | 20.77 | 20.82 | 21.05 | 20.86 | 5 |
| | | 1 | 49 | 20.59 | 20.75 | 20.89 | 21.05 | 20.87 | 5 |
| | | 25 | 0 | 20.86 | 21.06 | 20.83 | 21.37 | 21.35 | 5 |
| | | 25 | 12 | 20.83 | 21.07 | 20.82 | 21.35 | 21.33 | 5 |
| | | 25 | 25 | 20.84 | 21.04 | 20.80 | 21.34 | 21.32 | 5 |
| | | 50 | 0 | 20.83 | 21.07 | 20.83 | 21.34 | 21.37 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | | | | MPR |
|------------|------------|---------|-----------|-----------------------------|------------|------------|------------|------------|-----|
| | | | | 39 750 | 40 185 | 40 620 | 41 055 | 41 490 | |
| | | | | 2506.0 MHz | 2549.5 MHz | 2593.0 MHz | 2636.5 MHz | 2680.0 MHz | |
| 5 MHz | QPSK | 1 | 0 | 25.70 | 26.12 | 25.76 | 26.25 | 26.24 | 0 |
| | | 1 | 12 | 25.37 | 25.84 | 25.63 | 26.16 | 26.17 | 0 |
| | | 1 | 24 | 25.70 | 25.95 | 25.78 | 26.29 | 26.18 | 0 |
| | | 12 | 0 | 24.76 | 25.03 | 24.82 | 25.33 | 25.29 | 1 |
| | | 12 | 7 | 24.79 | 25.03 | 24.81 | 25.33 | 25.29 | 1 |
| | | 12 | 13 | 24.78 | 25.00 | 24.79 | 25.33 | 25.30 | 1 |
| | | 25 | 0 | 24.77 | 25.04 | 24.80 | 25.34 | 25.29 | 1 |
| | 16QAM | 1 | 0 | 25.03 | 25.54 | 24.96 | 25.29 | 25.53 | 1 |
| | | 1 | 12 | 24.97 | 25.19 | 24.97 | 25.24 | 25.57 | 1 |
| | | 1 | 24 | 25.08 | 25.25 | 24.97 | 25.30 | 25.52 | 1 |
| | | 12 | 0 | 23.81 | 24.10 | 23.74 | 24.31 | 24.22 | 2 |
| | | 12 | 7 | 23.82 | 24.09 | 23.84 | 24.31 | 24.28 | 2 |
| | | 12 | 13 | 23.81 | 24.06 | 23.72 | 24.30 | 24.27 | 2 |
| | | 25 | 0 | 23.81 | 24.02 | 23.78 | 24.37 | 24.35 | 2 |
| | 64QAM | 1 | 0 | 24.96 | 24.29 | 23.98 | 24.61 | 24.61 | 2 |
| | | 1 | 12 | 24.93 | 23.99 | 23.88 | 24.49 | 24.32 | 2 |
| | | 1 | 24 | 24.96 | 24.27 | 24.00 | 24.64 | 24.63 | 2 |
| | | 12 | 0 | 23.83 | 22.99 | 22.89 | 23.40 | 23.35 | 3 |
| | | 12 | 7 | 23.80 | 23.06 | 22.89 | 23.41 | 23.25 | 3 |
| | | 12 | 13 | 23.78 | 23.06 | 22.86 | 23.38 | 23.22 | 3 |
| | | 25 | 0 | 23.78 | 23.00 | 22.78 | 23.39 | 23.31 | 3 |
| | 256QAM | 1 | 0 | 20.37 | 20.77 | 20.54 | 21.14 | 21.14 | 5 |
| | | 1 | 12 | 20.07 | 20.43 | 20.09 | 20.54 | 20.83 | 5 |
| | | 1 | 24 | 20.44 | 20.82 | 20.55 | 21.11 | 21.10 | 5 |
| | | 12 | 0 | 20.73 | 21.07 | 20.74 | 21.34 | 21.32 | 5 |
| | | 12 | 7 | 20.74 | 21.04 | 20.74 | 21.34 | 21.34 | 5 |
| | | 12 | 13 | 20.75 | 21.02 | 20.72 | 21.33 | 21.32 | 5 |
| | | 25 | 0 | 20.78 | 21.08 | 20.79 | 21.35 | 21.30 | 5 |

10.5.8 LTE Band 41(Power Class 3)

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | | | | MPR |
|------------|------------|---------|-----------|-----------------------------|--------------|--------------|--------------|--------------|-----|
| | | | | 39 750 | 40 185 | 40 620 | 41 055 | 41 490 | |
| | | | | 2506.0 MHz | 2549.5 MHz | 2593.0 MHz | 2636.5 MHz | 2680.0 MHz | |
| 20 MHz | QPSK | 1 | 0 | 23.89 | 24.09 | 23.78 | 24.30 | 24.26 | 0 |
| | | 1 | 49 | 23.90 | 24.10 | 23.79 | 24.35 | 24.41 | 0 |
| | | 1 | 99 | 23.84 | 23.92 | 23.75 | 24.27 | 24.35 | 0 |
| | | 50 | 0 | 22.95 | 23.12 | 22.82 | 23.39 | 23.49 | 1 |
| | | 50 | 24 | 22.90 | 23.07 | 22.79 | 23.37 | 23.45 | 1 |
| | | 50 | 50 | 22.93 | 23.04 | 22.81 | 23.36 | 23.44 | 1 |
| | | 100 | 0 | 22.91 | 23.09 | 22.82 | 23.39 | 23.47 | 1 |
| | 16QAM | 1 | 0 | 22.68 | 23.16 | 22.68 | 23.35 | 23.25 | 1 |
| | | 1 | 49 | 22.68 | 23.04 | 22.54 | 23.25 | 23.10 | 1 |
| | | 1 | 99 | 22.85 | 22.96 | 22.70 | 23.28 | 23.24 | 1 |
| | | 50 | 0 | 21.91 | 22.16 | 21.83 | 22.40 | 22.46 | 2 |
| | | 50 | 24 | 21.91 | 22.09 | 21.81 | 22.37 | 22.42 | 2 |
| | | 50 | 50 | 21.92 | 22.05 | 21.81 | 22.36 | 22.41 | 2 |
| | | 100 | 0 | 21.95 | 22.14 | 21.86 | 22.43 | 22.48 | 2 |
| | 64QAM | 1 | 0 | 21.90 | 22.11 | 21.90 | 22.43 | 22.50 | 2 |
| | | 1 | 49 | 21.95 | 22.07 | 21.87 | 22.56 | 22.50 | 2 |
| | | 1 | 99 | 21.83 | 21.99 | 21.90 | 22.43 | 22.49 | 2 |
| | | 50 | 0 | 20.94 | 21.15 | 20.86 | 21.42 | 21.47 | 3 |
| | | 50 | 24 | 20.95 | 21.14 | 20.85 | 21.39 | 21.43 | 3 |
| | | 50 | 50 | 20.95 | 21.07 | 20.84 | 21.37 | 21.40 | 3 |
| | | 100 | 0 | 20.88 | 21.08 | 20.81 | 21.37 | 21.41 | 3 |
| | 256QAM | 1 | 0 | 18.54 | 19.03 | 18.53 | 19.14 | 19.30 | 5 |
| | | 1 | 49 | 18.68 | 19.02 | 18.53 | 19.20 | 19.28 | 5 |
| | | 1 | 99 | 18.64 | 18.84 | 18.59 | 18.95 | 19.01 | 5 |
| | | 50 | 0 | 18.88 | 19.14 | 18.85 | 19.39 | 19.43 | 5 |
| | | 50 | 24 | 18.89 | 19.09 | 18.84 | 19.38 | 19.40 | 5 |
| | | 50 | 50 | 18.90 | 19.02 | 18.81 | 19.36 | 19.35 | 5 |
| | | 100 | 0 | 18.84 | 19.01 | 18.77 | 19.30 | 19.33 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | | | | MPR |
|------------|------------|---------|-----------|-----------------------------|------------|------------|------------|------------|-----|
| | | | | 39 750 | 40 185 | 40 620 | 41 055 | 41 490 | |
| | | | | 2506.0 MHz | 2549.5 MHz | 2593.0 MHz | 2636.5 MHz | 2680.0 MHz | |
| 15 MHz | QPSK | 1 | 0 | 23.71 | 23.82 | 23.70 | 24.33 | 24.28 | 0 |
| | | 1 | 36 | 23.73 | 23.85 | 23.74 | 24.34 | 24.30 | 0 |
| | | 1 | 74 | 23.87 | 23.95 | 23.85 | 24.42 | 24.42 | 0 |
| | | 36 | 0 | 22.86 | 23.09 | 22.89 | 23.47 | 23.50 | 1 |
| | | 36 | 18 | 22.87 | 23.06 | 22.87 | 23.46 | 23.46 | 1 |
| | | 36 | 37 | 22.88 | 23.03 | 22.87 | 23.45 | 23.46 | 1 |
| | | 75 | 0 | 22.88 | 23.07 | 22.87 | 23.45 | 23.48 | 1 |
| | 16QAM | 1 | 0 | 22.77 | 23.16 | 22.93 | 23.43 | 23.36 | 1 |
| | | 1 | 36 | 22.77 | 22.92 | 22.75 | 23.32 | 23.34 | 1 |
| | | 1 | 74 | 22.82 | 22.86 | 22.84 | 23.36 | 23.36 | 1 |
| | | 36 | 0 | 21.86 | 22.10 | 21.86 | 22.43 | 22.46 | 2 |
| | | 36 | 18 | 21.85 | 22.07 | 21.82 | 22.42 | 22.42 | 2 |
| | | 36 | 37 | 21.84 | 22.02 | 21.83 | 22.40 | 22.42 | 2 |
| | | 75 | 0 | 21.89 | 22.08 | 21.85 | 22.43 | 22.43 | 2 |
| | 64QAM | 1 | 0 | 21.90 | 22.26 | 21.95 | 22.47 | 22.53 | 2 |
| | | 1 | 36 | 21.80 | 22.03 | 21.92 | 22.44 | 22.38 | 2 |
| | | 1 | 74 | 21.93 | 21.99 | 22.06 | 22.54 | 22.37 | 2 |
| | | 36 | 0 | 20.87 | 21.11 | 20.84 | 21.41 | 21.47 | 3 |
| | | 36 | 18 | 20.88 | 21.09 | 20.83 | 21.41 | 21.45 | 3 |
| | | 36 | 37 | 20.90 | 21.04 | 20.82 | 21.41 | 21.43 | 3 |
| | | 75 | 0 | 20.87 | 21.08 | 20.85 | 21.41 | 21.41 | 3 |
| | 256QAM | 1 | 0 | 18.63 | 19.02 | 18.74 | 19.27 | 19.26 | 5 |
| | | 1 | 36 | 18.56 | 18.92 | 18.64 | 19.07 | 19.05 | 5 |
| | | 1 | 74 | 18.59 | 18.91 | 18.79 | 19.14 | 19.13 | 5 |
| | | 36 | 0 | 18.83 | 19.06 | 18.80 | 19.37 | 19.39 | 5 |
| | | 36 | 18 | 18.83 | 19.03 | 18.78 | 19.36 | 19.36 | 5 |
| | | 36 | 37 | 18.84 | 19.01 | 18.79 | 19.36 | 19.35 | 5 |
| | | 75 | 0 | 18.82 | 19.02 | 18.79 | 19.34 | 19.34 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | | | | MPR |
|------------|------------|---------|-----------|-----------------------------|------------|------------|------------|------------|-----|
| | | | | 39 750 | 40 185 | 40 620 | 41 055 | 41 490 | |
| | | | | 2506.0 MHz | 2549.5 MHz | 2593.0 MHz | 2636.5 MHz | 2680.0 MHz | |
| 10 MHz | QPSK | 1 | 0 | 23.79 | 24.11 | 23.86 | 24.26 | 24.26 | 0 |
| | | 1 | 25 | 23.80 | 23.98 | 23.60 | 24.26 | 24.27 | 0 |
| | | 1 | 49 | 23.88 | 24.00 | 23.70 | 24.34 | 24.36 | 0 |
| | | 25 | 0 | 22.93 | 23.12 | 22.78 | 23.42 | 23.47 | 1 |
| | | 25 | 12 | 22.91 | 23.10 | 22.75 | 23.39 | 23.44 | 1 |
| | | 25 | 25 | 22.93 | 23.07 | 22.78 | 23.39 | 23.44 | 1 |
| | | 50 | 0 | 22.96 | 23.10 | 22.80 | 23.41 | 23.48 | 1 |
| | 16QAM | 1 | 0 | 22.94 | 23.02 | 22.91 | 23.40 | 23.34 | 1 |
| | | 1 | 25 | 22.84 | 22.92 | 22.77 | 23.38 | 23.18 | 1 |
| | | 1 | 49 | 22.94 | 23.01 | 22.77 | 23.35 | 23.30 | 1 |
| | | 25 | 0 | 21.90 | 22.12 | 21.79 | 22.42 | 22.45 | 2 |
| | | 25 | 12 | 21.93 | 22.09 | 21.76 | 22.38 | 22.41 | 2 |
| | | 25 | 25 | 21.91 | 22.05 | 21.77 | 22.38 | 22.40 | 2 |
| | | 50 | 0 | 21.92 | 22.10 | 21.79 | 22.37 | 22.43 | 2 |
| | 64QAM | 1 | 0 | 21.96 | 22.16 | 21.93 | 22.60 | 22.44 | 2 |
| | | 1 | 25 | 21.89 | 22.02 | 21.85 | 22.52 | 22.30 | 2 |
| | | 1 | 49 | 21.97 | 22.10 | 21.86 | 22.55 | 22.41 | 2 |
| | | 25 | 0 | 20.87 | 21.11 | 20.78 | 21.37 | 21.38 | 3 |
| | | 25 | 12 | 20.90 | 21.10 | 20.79 | 21.37 | 21.36 | 3 |
| | | 25 | 25 | 20.90 | 21.05 | 20.77 | 21.36 | 21.39 | 3 |
| | | 50 | 0 | 20.93 | 21.11 | 20.84 | 21.41 | 21.43 | 3 |
| | 256QAM | 1 | 0 | 18.60 | 19.00 | 18.72 | 19.17 | 19.17 | 5 |
| | | 1 | 25 | 18.54 | 18.82 | 18.56 | 19.09 | 19.05 | 5 |
| | | 1 | 49 | 18.65 | 18.75 | 18.68 | 19.18 | 19.14 | 5 |
| | | 25 | 0 | 18.87 | 19.10 | 18.79 | 19.36 | 19.38 | 5 |
| | | 25 | 12 | 18.88 | 19.05 | 18.77 | 19.34 | 19.36 | 5 |
| | | 25 | 25 | 18.87 | 19.04 | 18.78 | 19.33 | 19.35 | 5 |
| | | 50 | 0 | 18.90 | 19.07 | 18.80 | 19.36 | 19.38 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | | | | MPR |
|------------|------------|---------|-----------|-----------------------------|------------|------------|------------|------------|-----|
| | | | | 39 750 | 40 185 | 40 620 | 41 055 | 41 490 | |
| | | | | 2506.0 MHz | 2549.5 MHz | 2593.0 MHz | 2636.5 MHz | 2680.0 MHz | |
| 5 MHz | QPSK | 1 | 0 | 23.72 | 24.01 | 23.76 | 24.30 | 24.16 | 0 |
| | | 1 | 12 | 23.96 | 24.19 | 23.92 | 24.48 | 24.39 | 0 |
| | | 1 | 24 | 23.84 | 24.07 | 23.84 | 24.38 | 24.31 | 0 |
| | | 12 | 0 | 22.85 | 23.09 | 22.86 | 23.40 | 23.34 | 1 |
| | | 12 | 7 | 22.86 | 23.09 | 22.86 | 23.41 | 23.33 | 1 |
| | | 12 | 13 | 22.85 | 23.08 | 22.84 | 23.40 | 23.34 | 1 |
| | | 25 | 0 | 22.88 | 23.09 | 22.86 | 23.40 | 23.36 | 1 |
| | 16QAM | 1 | 0 | 22.95 | 23.13 | 22.77 | 23.24 | 23.44 | 1 |
| | | 1 | 12 | 23.06 | 22.97 | 22.54 | 23.11 | 23.25 | 1 |
| | | 1 | 24 | 22.95 | 23.11 | 22.75 | 23.27 | 23.35 | 1 |
| | | 12 | 0 | 21.83 | 22.08 | 21.79 | 22.37 | 22.34 | 2 |
| | | 12 | 7 | 21.84 | 22.09 | 21.81 | 22.38 | 22.35 | 2 |
| | | 12 | 13 | 21.83 | 22.04 | 21.82 | 22.38 | 22.33 | 2 |
| | | 25 | 0 | 21.93 | 22.07 | 21.80 | 22.37 | 22.37 | 2 |
| | 64QAM | 1 | 0 | 21.71 | 22.15 | 21.89 | 22.49 | 22.55 | 2 |
| | | 1 | 12 | 21.75 | 22.24 | 22.05 | 22.59 | 22.51 | 2 |
| | | 1 | 24 | 21.70 | 22.05 | 21.92 | 22.49 | 22.49 | 2 |
| | | 12 | 0 | 20.84 | 21.11 | 20.78 | 21.39 | 21.37 | 3 |
| | | 12 | 7 | 20.84 | 21.05 | 20.81 | 21.37 | 21.38 | 3 |
| | | 12 | 13 | 20.86 | 21.04 | 20.79 | 21.36 | 21.35 | 3 |
| | | 25 | 0 | 20.86 | 21.08 | 20.81 | 21.33 | 21.32 | 3 |
| | 256QAM | 1 | 0 | 18.39 | 18.74 | 18.46 | 19.11 | 19.14 | 5 |
| | | 1 | 12 | 18.38 | 18.73 | 18.38 | 18.92 | 19.00 | 5 |
| | | 1 | 24 | 18.50 | 18.67 | 18.53 | 19.05 | 19.10 | 5 |
| | | 12 | 0 | 18.77 | 19.04 | 18.77 | 19.35 | 19.30 | 5 |
| | | 12 | 7 | 18.77 | 19.02 | 18.75 | 19.31 | 19.30 | 5 |
| | | 12 | 13 | 18.78 | 19.00 | 18.76 | 19.32 | 19.28 | 5 |
| | | 25 | 0 | 18.79 | 19.05 | 18.80 | 19.35 | 19.30 | 5 |

10.5.9 LTE Band 66

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|--------------|-------------|-----|
| | | | | 132 072 | 132 322 | 132 572 | |
| | | | | 1 720.0 MHz | 1 745.0 MHz | 1 770.0 MHz | |
| 20 MHz | QPSK | 1 | 0 | 24.10 | 24.26 | 24.17 | 0 |
| | | 1 | 49 | 24.26 | 24.48 | 24.31 | 0 |
| | | 1 | 99 | 24.17 | 24.33 | 24.18 | 0 |
| | | 50 | 0 | 23.25 | 23.42 | 23.29 | 1 |
| | | 50 | 24 | 23.21 | 23.41 | 23.27 | 1 |
| | | 50 | 50 | 23.22 | 23.39 | 23.23 | 1 |
| | | 100 | 0 | 23.16 | 23.36 | 23.27 | 1 |
| | 16QAM | 1 | 0 | 23.48 | 23.55 | 23.57 | 1 |
| | | 1 | 49 | 23.23 | 23.62 | 23.36 | 1 |
| | | 1 | 99 | 23.50 | 23.45 | 23.56 | 1 |
| | | 50 | 0 | 22.24 | 22.48 | 22.26 | 2 |
| | | 50 | 24 | 22.22 | 22.41 | 22.23 | 2 |
| | | 50 | 50 | 22.30 | 22.44 | 22.28 | 2 |
| | | 100 | 0 | 22.26 | 22.45 | 22.22 | 2 |
| | 64QAM | 1 | 0 | 22.39 | 22.59 | 22.48 | 2 |
| | | 1 | 49 | 22.29 | 22.67 | 22.48 | 2 |
| | | 1 | 99 | 22.32 | 22.55 | 22.54 | 2 |
| | | 50 | 0 | 21.20 | 21.35 | 21.25 | 3 |
| | | 50 | 24 | 21.21 | 21.36 | 21.29 | 3 |
| | | 50 | 50 | 21.21 | 21.37 | 21.25 | 3 |
| | | 100 | 0 | 21.17 | 21.41 | 21.21 | 3 |
| | 256QAM | 1 | 0 | 19.27 | 19.45 | 19.29 | 5 |
| | | 1 | 49 | 19.22 | 19.31 | 19.16 | 5 |
| | | 1 | 99 | 19.36 | 19.41 | 19.11 | 5 |
| | | 50 | 0 | 19.07 | 19.30 | 19.19 | 5 |
| | | 50 | 24 | 19.15 | 19.28 | 19.13 | 5 |
| | | 50 | 50 | 19.15 | 19.29 | 19.16 | 5 |
| | | 100 | 0 | 19.18 | 19.31 | 19.13 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 132 047 | 132 322 | 132 597 | |
| | | | | 1 717.5 MHz | 1 745.0 MHz | 1 772.5 MHz | |
| 15 MHz | QPSK | 1 | 0 | 23.99 | 24.26 | 24.11 | 0 |
| | | 1 | 36 | 23.96 | 24.20 | 24.06 | 0 |
| | | 1 | 74 | 24.16 | 24.37 | 24.16 | 0 |
| | | 36 | 0 | 23.15 | 23.37 | 23.29 | 1 |
| | | 36 | 18 | 23.19 | 23.42 | 23.22 | 1 |
| | | 36 | 37 | 23.20 | 23.43 | 23.24 | 1 |
| | | 75 | 0 | 23.17 | 23.33 | 23.25 | 1 |
| | 16QAM | 1 | 0 | 23.32 | 23.64 | 23.40 | 1 |
| | | 1 | 36 | 23.44 | 23.57 | 23.41 | 1 |
| | | 1 | 74 | 23.56 | 23.67 | 23.54 | 1 |
| | | 36 | 0 | 22.23 | 22.42 | 22.24 | 2 |
| | | 36 | 18 | 22.29 | 22.41 | 22.24 | 2 |
| | | 36 | 37 | 22.26 | 22.43 | 22.21 | 2 |
| | | 75 | 0 | 22.18 | 22.38 | 22.18 | 2 |
| | 64QAM | 1 | 0 | 22.41 | 22.41 | 22.39 | 2 |
| | | 1 | 36 | 22.18 | 22.37 | 22.18 | 2 |
| | | 1 | 74 | 22.35 | 22.43 | 22.30 | 2 |
| | | 36 | 0 | 21.22 | 21.46 | 21.27 | 3 |
| | | 36 | 18 | 21.23 | 21.40 | 21.25 | 3 |
| | | 36 | 37 | 21.24 | 21.40 | 21.24 | 3 |
| | | 75 | 0 | 21.13 | 21.35 | 21.15 | 3 |
| | 256QAM | 1 | 0 | 19.29 | 19.39 | 19.28 | 5 |
| | | 1 | 36 | 19.12 | 19.42 | 19.06 | 5 |
| | | 1 | 74 | 19.37 | 19.44 | 19.23 | 5 |
| | | 36 | 0 | 19.14 | 19.30 | 19.23 | 5 |
| | | 36 | 18 | 19.13 | 19.33 | 19.13 | 5 |
| | | 36 | 37 | 19.18 | 19.27 | 19.10 | 5 |
| | | 75 | 0 | 19.16 | 19.27 | 19.14 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 132 022 | 132 322 | 132 622 | |
| | | | | 1 715.0 MHz | 1 745.0 MHz | 1 775.0 MHz | |
| 10 MHz | QPSK | 1 | 0 | 24.08 | 24.31 | 24.10 | 0 |
| | | 1 | 25 | 24.03 | 24.15 | 23.99 | 0 |
| | | 1 | 49 | 24.14 | 24.30 | 24.22 | 0 |
| | | 25 | 0 | 23.16 | 23.34 | 23.20 | 1 |
| | | 25 | 12 | 23.15 | 23.31 | 23.20 | 1 |
| | | 25 | 25 | 23.19 | 23.36 | 23.19 | 1 |
| | | 50 | 0 | 23.19 | 23.34 | 23.20 | 1 |
| | 16QAM | 1 | 0 | 23.33 | 23.65 | 23.35 | 1 |
| | | 1 | 25 | 23.34 | 23.54 | 23.40 | 1 |
| | | 1 | 49 | 23.40 | 23.58 | 23.43 | 1 |
| | | 25 | 0 | 22.19 | 22.36 | 22.24 | 2 |
| | | 25 | 12 | 22.15 | 22.36 | 22.16 | 2 |
| | | 25 | 25 | 22.20 | 22.34 | 22.19 | 2 |
| | | 50 | 0 | 22.22 | 22.36 | 22.23 | 2 |
| | 64QAM | 1 | 0 | 22.28 | 22.56 | 22.41 | 2 |
| | | 1 | 25 | 22.25 | 22.44 | 22.19 | 2 |
| | | 1 | 49 | 22.25 | 22.48 | 22.37 | 2 |
| | | 25 | 0 | 21.18 | 21.26 | 21.15 | 3 |
| | | 25 | 12 | 21.17 | 21.37 | 21.19 | 3 |
| | | 25 | 25 | 21.13 | 21.37 | 21.16 | 3 |
| | | 50 | 0 | 21.21 | 21.33 | 21.16 | 3 |
| | 256QAM | 1 | 0 | 19.19 | 19.44 | 19.32 | 5 |
| | | 1 | 25 | 19.23 | 19.30 | 19.08 | 5 |
| | | 1 | 49 | 19.11 | 19.44 | 19.27 | 5 |
| | | 25 | 0 | 19.08 | 19.30 | 19.05 | 5 |
| | | 25 | 12 | 19.07 | 19.29 | 19.13 | 5 |
| | | 25 | 25 | 19.09 | 19.24 | 19.10 | 5 |
| | | 50 | 0 | 19.06 | 19.29 | 19.10 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 131 997 | 132 322 | 132 647 | |
| | | | | 1 712.5 MHz | 1 745.0 MHz | 1 777.5 MHz | |
| 5 MHz | QPSK | 1 | 0 | 23.91 | 24.19 | 24.02 | 0 |
| | | 1 | 12 | 24.04 | 24.34 | 24.30 | 0 |
| | | 1 | 24 | 24.04 | 24.25 | 24.01 | 0 |
| | | 12 | 0 | 23.04 | 23.30 | 23.16 | 1 |
| | | 12 | 7 | 23.09 | 23.26 | 23.15 | 1 |
| | | 12 | 13 | 23.10 | 23.29 | 23.11 | 1 |
| | | 25 | 0 | 23.04 | 23.30 | 23.14 | 1 |
| | 16QAM | 1 | 0 | 23.40 | 23.63 | 23.22 | 1 |
| | | 1 | 12 | 23.13 | 23.24 | 22.93 | 1 |
| | | 1 | 24 | 23.33 | 23.58 | 23.44 | 1 |
| | | 12 | 0 | 22.22 | 22.35 | 22.22 | 2 |
| | | 12 | 7 | 22.19 | 22.35 | 22.13 | 2 |
| | | 12 | 13 | 22.23 | 22.34 | 22.20 | 2 |
| | | 25 | 0 | 22.15 | 22.33 | 22.11 | 2 |
| | 64QAM | 1 | 0 | 22.31 | 22.38 | 22.25 | 2 |
| | | 1 | 12 | 22.37 | 22.65 | 22.52 | 2 |
| | | 1 | 24 | 22.25 | 22.45 | 22.28 | 2 |
| | | 12 | 0 | 21.18 | 21.39 | 21.18 | 3 |
| | | 12 | 7 | 21.14 | 21.32 | 21.17 | 3 |
| | | 12 | 13 | 21.14 | 21.32 | 21.10 | 3 |
| | | 25 | 0 | 21.07 | 21.20 | 21.10 | 3 |
| | 256QAM | 1 | 0 | 19.23 | 19.44 | 19.32 | 5 |
| | | 1 | 12 | 19.04 | 19.40 | 19.26 | 5 |
| | | 1 | 24 | 19.25 | 19.35 | 19.36 | 5 |
| | | 12 | 0 | 19.05 | 19.23 | 19.08 | 5 |
| | | 12 | 7 | 19.03 | 19.18 | 19.05 | 5 |
| | | 12 | 13 | 19.03 | 19.13 | 18.99 | 5 |
| | | 25 | 0 | 19.05 | 19.24 | 19.06 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 131 987 | 132 322 | 132 657 | |
| | | | | 1 711.5 MHz | 1 745.0 MHz | 1 778.5 MHz | |
| 3 MHz | QPSK | 1 | 0 | 23.85 | 24.05 | 23.90 | 0 |
| | | 1 | 8 | 23.85 | 24.13 | 23.95 | 0 |
| | | 1 | 14 | 23.88 | 24.09 | 23.96 | 0 |
| | | 8 | 0 | 23.00 | 23.24 | 23.07 | 1 |
| | | 8 | 4 | 23.04 | 23.21 | 23.10 | 1 |
| | | 8 | 7 | 23.08 | 23.24 | 23.11 | 1 |
| | | 15 | 0 | 23.10 | 23.28 | 23.13 | 1 |
| | 16QAM | 1 | 0 | 23.32 | 23.49 | 23.32 | 1 |
| | | 1 | 8 | 23.21 | 23.45 | 23.24 | 1 |
| | | 1 | 14 | 23.34 | 23.53 | 23.37 | 1 |
| | | 8 | 0 | 22.05 | 22.29 | 22.10 | 2 |
| | | 8 | 4 | 22.03 | 22.27 | 22.13 | 2 |
| | | 8 | 7 | 22.09 | 22.32 | 22.09 | 2 |
| | | 15 | 0 | 22.13 | 22.29 | 22.14 | 2 |
| | 64QAM | 1 | 0 | 22.18 | 22.41 | 22.25 | 2 |
| | | 1 | 8 | 22.20 | 22.30 | 22.14 | 2 |
| | | 1 | 14 | 22.22 | 22.39 | 22.19 | 2 |
| | | 8 | 0 | 21.13 | 21.26 | 21.08 | 3 |
| | | 8 | 4 | 21.08 | 21.28 | 21.08 | 3 |
| | | 8 | 7 | 21.00 | 21.25 | 21.04 | 3 |
| | | 15 | 0 | 21.07 | 21.21 | 21.15 | 3 |
| | 256QAM | 1 | 0 | 19.17 | 19.32 | 19.15 | 5 |
| | | 1 | 8 | 19.10 | 19.22 | 18.92 | 5 |
| | | 1 | 14 | 19.06 | 19.23 | 19.11 | 5 |
| | | 8 | 0 | 19.01 | 19.19 | 19.01 | 5 |
| | | 8 | 4 | 18.98 | 19.07 | 18.90 | 5 |
| | | 8 | 7 | 18.99 | 19.20 | 19.05 | 5 |
| | | 15 | 0 | 19.00 | 19.17 | 19.07 | 5 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 131 979 | 132 322 | 132 665 | |
| | | | | 1 710.7 MHz | 1 745.0 MHz | 1 779.3 MHz | |
| 1.4 MHz | QPSK | 1 | 0 | 24.14 | 24.04 | 23.95 | 0 |
| | | 1 | 3 | 23.77 | 24.06 | 23.90 | 0 |
| | | 1 | 5 | 24.02 | 24.18 | 24.09 | 0 |
| | | 3 | 0 | 24.00 | 24.19 | 24.02 | 0 |
| | | 3 | 1 | 23.96 | 24.13 | 24.01 | 0 |
| | | 3 | 3 | 23.95 | 24.12 | 24.05 | 0 |
| | | 6 | 0 | 23.10 | 23.20 | 23.07 | 1 |
| | 16QAM | 1 | 0 | 23.40 | 23.31 | 23.40 | 1 |
| | | 1 | 3 | 23.15 | 23.37 | 23.18 | 1 |
| | | 1 | 5 | 23.21 | 23.44 | 23.23 | 1 |
| | | 3 | 0 | 23.17 | 23.25 | 23.22 | 1 |
| | | 3 | 1 | 23.17 | 23.27 | 23.20 | 1 |
| | | 3 | 3 | 23.18 | 23.34 | 23.13 | 1 |
| | | 6 | 0 | 22.17 | 22.31 | 22.10 | 2 |
| | 64QAM | 1 | 0 | 22.13 | 22.47 | 22.13 | 2 |
| | | 1 | 3 | 22.23 | 22.32 | 22.13 | 2 |
| | | 1 | 5 | 22.34 | 22.47 | 22.24 | 2 |
| | | 3 | 0 | 22.23 | 22.31 | 22.11 | 2 |
| | | 3 | 1 | 22.16 | 22.34 | 22.13 | 2 |
| | | 3 | 3 | 22.14 | 22.30 | 22.13 | 2 |
| | | 6 | 0 | 21.18 | 21.24 | 21.07 | 3 |
| | 256QAM | 1 | 0 | 19.13 | 19.18 | 19.18 | 5 |
| | | 1 | 3 | 18.94 | 19.11 | 19.05 | 5 |
| | | 1 | 5 | 19.18 | 19.31 | 19.12 | 5 |
| | | 3 | 0 | 19.09 | 19.18 | 19.05 | 5 |
| | | 3 | 1 | 18.87 | 18.96 | 18.93 | 5 |
| | | 3 | 3 | 19.01 | 19.17 | 18.97 | 5 |
| | | 6 | 0 | 19.03 | 19.14 | 18.98 | 5 |

10.6 5G NR Average Conducted Output Power

10.6.1 NR n5(SA)

| Band width | Modulation | Mode | RB Size | RB offset | Maximum Average Power | | MPR |
|------------|------------|--------------|---------|--------------|-----------------------|-----|-----|
| | | | | | 167 300 | | |
| | | | | | 836.5 MHz | | |
| 20 MHz | DFT-s-OFDM | $\pi/2$ BPSK | 1 | 1 | 24.23 | 0 | |
| | | | 1 | 53 | 24.42 | 0 | |
| | | | 1 | 104 | 24.13 | 0 | |
| | | | 50 | 0 | 23.84 | 0.5 | |
| | | | 50 | 28 | 24.26 | 0 | |
| | | | 50 | 56 | 23.76 | 0.5 | |
| | | | 100 | 0 | 23.85 | 0.5 | |
| | | QPSK | 1 | 1 | 24.28 | 0 | |
| | | | 1 | 53 | 24.46 | 0 | |
| | | | 1 | 104 | 24.14 | 0 | |
| | | | 50 | 0 | 23.37 | 1 | |
| | | | 50 | 28 | 24.36 | 0 | |
| | | | 50 | 56 | 23.27 | 1 | |
| | | | 100 | 0 | 23.30 | 1 | |
| | | 16QAM | 1 | 1 | 23.28 | 1 | |
| | 64QAM | 1 | 1 | 21.82 | 2.5 | | |
| 256QAM | 1 | 1 | 19.56 | 4.5 | | | |
| CP-OFDM | QPSK | 1 | 1 | 22.75 | 1.5 | | |

| Band width | Modulation | Mode | RB Size | RB offset | Maximum Average Power | | MPR |
|------------|------------|--------------|---------|-----------|-----------------------|-----|-----|
| | | | | | 167 300 | | |
| | | | | | 836.5 MHz | | |
| 15 MHz | DFT-s-OFDM | $\pi/2$ BPSK | 1 | 1 | 24.34 | 0 | |
| | | | 1 | 40 | 24.16 | 0 | |
| | | | 1 | 77 | 24.17 | 0 | |
| | | | 36 | 0 | 23.88 | 0.5 | |
| | | | 36 | 22 | 24.34 | 0 | |
| | | | 36 | 43 | 23.83 | 0.5 | |
| | | | 75 | 0 | 23.83 | 0.5 | |
| | | QPSK | 1 | 1 | 24.35 | 0 | |
| | | | 1 | 40 | 24.20 | 0 | |
| | | | 1 | 77 | 24.19 | 0 | |
| | | | 36 | 0 | 23.31 | 1 | |
| | | | 36 | 22 | 24.35 | 0 | |
| | | | 36 | 43 | 23.28 | 1 | |
| | | | 75 | 0 | 23.33 | 1 | |
| | | 16QAM | 1 | 1 | 23.21 | 1 | |
| | 64QAM | 1 | 1 | 22.14 | 2.5 | | |
| 256QAM | 1 | 1 | 19.93 | 4.5 | | | |
| CP-OFDM | QPSK | 1 | 1 | 22.91 | 1.5 | | |

| Band width | Modulation | Mode | RB Size | RB offset | Maximum Average Power | | MPR |
|------------|------------|--------------|---------|-----------|-----------------------|-----|-----|
| | | | | | 167 300 | | |
| | | | | | 836.5 MHz | | |
| 10 MHz | DFT-s-OFDM | $\pi/2$ BPSK | 1 | 1 | 24.30 | 0 | |
| | | | 1 | 26 | 24.41 | 0 | |
| | | | 1 | 50 | 24.28 | 0 | |
| | | | 25 | 0 | 23.84 | 0.5 | |
| | | | 25 | 14 | 24.31 | 0 | |
| | | | 25 | 27 | 23.81 | 0.5 | |
| | | | 50 | 0 | 23.80 | 0.5 | |
| | | QPSK | 1 | 1 | 24.32 | 0 | |
| | | | 1 | 26 | 24.42 | 0 | |
| | | | 1 | 50 | 24.29 | 0 | |
| | | | 25 | 0 | 23.36 | 1 | |
| | | | 25 | 14 | 24.32 | 0 | |
| | | | 25 | 27 | 23.28 | 1 | |
| | | 16QAM | 50 | 0 | 23.31 | 1 | |
| | | | 1 | 1 | 23.41 | 1 | |
| | | | 1 | 1 | 21.92 | 2.5 | |
| 256QAM | 1 | 1 | 19.80 | 4.5 | | | |
| | CP-OFDM | QPSK | 1 | 1 | 22.78 | 1.5 | |

| Band width | Modulation | Mode | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|--------------|---------|-----------|-----------------------|-----------|-----------|-----|
| | | | | | 165300 | 167300 | 169300 | |
| | | | | | 826.5 MHz | 836.5 MHz | 846.5 MHz | |
| 5 MHz | DFT-s-OFDM | $\pi/2$ BPSK | 1 | 1 | 24.30 | 24.32 | 24.25 | 0 |
| | | | 1 | 13 | 24.17 | 24.21 | 24.15 | 0 |
| | | | 1 | 23 | 24.28 | 24.24 | 24.17 | 0 |
| | | | 12 | 0 | 23.84 | 23.82 | 23.81 | 0.5 |
| | | | 12 | 7 | 24.34 | 24.21 | 24.22 | 0 |
| | | | 12 | 13 | 23.83 | 23.74 | 23.77 | 0.5 |
| | | | 25 | 0 | 23.78 | 23.81 | 23.73 | 0.5 |
| | | QPSK | 1 | 1 | 24.30 | 24.34 | 24.28 | 0 |
| | | | 1 | 13 | 24.24 | 24.24 | 24.17 | 0 |
| | | | 1 | 23 | 24.33 | 24.25 | 24.25 | 0 |
| | | | 12 | 0 | 23.28 | 23.21 | 23.22 | 1 |
| | | | 12 | 7 | 24.27 | 24.35 | 24.23 | 0 |
| | | | 12 | 13 | 23.32 | 23.28 | 23.28 | 1 |
| | | 16QAM | 25 | 0 | 23.29 | 23.27 | 23.23 | 1 |
| | | | 1 | 1 | 23.23 | 23.45 | 23.12 | 1 |
| | | | 1 | 1 | 21.82 | 21.78 | 22.09 | 2.5 |
| 256QAM | 1 | 1 | 19.98 | 20.02 | 20.06 | 4.5 | | |
| | CP-OFDM | QPSK | 1 | 1 | 22.86 | 22.93 | 22.78 | 1.5 |

10.6.2 NR n66 (SA)

| Band width | Modulation | Mode | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|--------------|---------|-----------|-----------------------|--------------|-------------|-----|
| | | | | | 344000 | 349000 | 354000 | |
| | | | | | 1 720.0 MHz | 1 745.0 MHz | 1 770.0 MHz | |
| 20 MHz | DFT-s-OFDM | $\pi/2$ BPSK | 1 | 1 | 24.45 | 24.67 | 24.41 | 0 |
| | | | 1 | 53 | 24.45 | 24.66 | 24.58 | 0 |
| | | | 1 | 104 | 24.47 | 24.39 | 24.37 | 0 |
| | | | 50 | 0 | 23.98 | 24.27 | 24.02 | 0.5 |
| | | | 50 | 28 | 24.38 | 24.72 | 24.52 | 0 |
| | | | 50 | 56 | 23.91 | 24.06 | 23.93 | 0.5 |
| | | 100 | 0 | 23.94 | 24.19 | 24.05 | 0.5 | |
| | | QPSK | 1 | 1 | 24.54 | 24.85 | 24.42 | 0 |
| | | | 1 | 53 | 24.56 | 24.69 | 24.45 | 0 |
| | | | 1 | 104 | 24.61 | 24.48 | 24.50 | 0 |
| | | | 50 | 0 | 23.52 | 23.80 | 23.56 | 1 |
| | | | 50 | 28 | 24.52 | 24.74 | 24.46 | 0 |
| | | | 50 | 56 | 23.49 | 23.55 | 23.41 | 1 |
| | | 100 | 0 | 23.47 | 23.69 | 23.39 | 1 | |
| | | 16QAM | 1 | 1 | 23.40 | 23.63 | 23.40 | 1 |
| | | 64QAM | 1 | 1 | 21.95 | 22.29 | 21.85 | 2.5 |
| 256QAM | 1 | 1 | 19.79 | 20.10 | 19.82 | 4.5 | | |
| CP-OFDM | QPSK | 1 | 1 | 22.97 | 23.14 | 22.98 | 1.5 | |

| Band width | Modulation | Mode | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|--------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | | 343500 | 349000 | 354500 | |
| | | | | | 1 717.5 MHz | 1 745.0 MHz | 1 772.5 MHz | |
| 15 MHz | DFT-s-OFDM | $\pi/2$ BPSK | 1 | 1 | 24.37 | 24.78 | 24.50 | 0 |
| | | | 1 | 40 | 24.58 | 24.64 | 24.38 | 0 |
| | | | 1 | 77 | 24.64 | 24.60 | 24.50 | 0 |
| | | | 36 | 0 | 24.18 | 24.44 | 24.05 | 0.5 |
| | | | 36 | 22 | 24.70 | 24.76 | 24.50 | 0 |
| | | | 36 | 43 | 24.11 | 24.27 | 23.92 | 0.5 |
| | | 75 | 0 | 24.16 | 24.28 | 23.93 | 0.5 | |
| | | QPSK | 1 | 1 | 24.38 | 24.79 | 24.66 | 0 |
| | | | 1 | 40 | 24.53 | 24.76 | 24.42 | 0 |
| | | | 1 | 77 | 24.61 | 24.68 | 24.58 | 0 |
| | | | 36 | 0 | 23.61 | 23.95 | 23.56 | 1 |
| | | | 36 | 22 | 24.62 | 24.93 | 24.48 | 0 |
| | | | 36 | 43 | 23.55 | 23.82 | 23.47 | 1 |
| | | 75 | 0 | 23.59 | 23.85 | 23.49 | 1 | |
| | | 16QAM | 1 | 1 | 23.86 | 23.76 | 23.55 | 1 |
| | | 64QAM | 1 | 1 | 22.17 | 22.44 | 22.23 | 2.5 |
| 256QAM | 1 | 1 | 19.79 | 20.11 | 19.88 | 4.5 | | |
| CP-OFDM | QPSK | 1 | 1 | 23.18 | 23.49 | 23.01 | 1.5 | |

| Band width | Modulation | Mode | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|----------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | | 343000 | 349000 | 355000 | |
| | | | | | 1 715.0 MHz | 1 745.0 MHz | 1 775.0 MHz | |
| 10 MHz | DFT-s-OFDM | π/2 BPSK | 1 | 1 | 24.52 | 24.93 | 24.58 | 0 |
| | | | 1 | 26 | 24.57 | 24.75 | 24.65 | 0 |
| | | | 1 | 50 | 24.48 | 24.65 | 24.60 | 0 |
| | | | 25 | 0 | 24.01 | 24.34 | 24.01 | 0.5 |
| | | | 25 | 14 | 24.49 | 24.82 | 24.56 | 0 |
| | | | 25 | 27 | 24.03 | 24.28 | 24.02 | 0.5 |
| | | | 50 | 0 | 24.05 | 24.32 | 24.04 | 0.5 |
| | | QPSK | 1 | 1 | 24.63 | 24.98 | 24.60 | 0 |
| | | | 1 | 26 | 24.51 | 24.84 | 24.54 | 0 |
| | | | 1 | 50 | 24.50 | 24.76 | 24.56 | 0 |
| | | | 25 | 0 | 23.64 | 23.89 | 23.57 | 1 |
| | | | 25 | 14 | 24.62 | 24.85 | 24.57 | 0 |
| | | | 25 | 27 | 23.55 | 23.68 | 23.56 | 1 |
| | | 16QAM | 50 | 0 | 23.56 | 23.74 | 23.57 | 1 |
| | | | 1 | 1 | 23.92 | 23.80 | 23.75 | 1 |
| | | | 1 | 1 | 22.46 | 22.41 | 22.12 | 2.5 |
| | | | 1 | 1 | 19.98 | 20.12 | 19.95 | 4.5 |
| CP-OFDM | QPSK | 1 | 1 | 23.28 | 23.18 | 22.98 | 1.5 | |

| Band width | Modulation | Mode | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|----------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | | 342500 | 349000 | 355500 | |
| | | | | | 1 712.5 MHz | 1 745.0 MHz | 1 777.5 MHz | |
| 5 MHz | DFT-s-OFDM | π/2 BPSK | 1 | 1 | 24.70 | 24.80 | 24.60 | 0 |
| | | | 1 | 13 | 24.59 | 24.68 | 24.51 | 0 |
| | | | 1 | 23 | 24.63 | 24.82 | 24.57 | 0 |
| | | | 12 | 0 | 24.09 | 24.35 | 24.03 | 0.5 |
| | | | 12 | 7 | 24.62 | 24.84 | 24.51 | 0 |
| | | | 12 | 13 | 24.08 | 24.39 | 24.01 | 0.5 |
| | | | 25 | 0 | 24.14 | 24.34 | 24.03 | 0.5 |
| | | QPSK | 1 | 1 | 24.70 | 24.86 | 24.56 | 0 |
| | | | 1 | 13 | 24.62 | 24.72 | 24.47 | 0 |
| | | | 1 | 23 | 24.59 | 24.86 | 24.67 | 0 |
| | | | 12 | 0 | 23.64 | 23.84 | 23.48 | 1 |
| | | | 12 | 7 | 24.58 | 24.88 | 24.57 | 0 |
| | | | 12 | 13 | 23.64 | 23.75 | 23.61 | 1 |
| | | 16QAM | 25 | 0 | 23.64 | 23.79 | 23.56 | 1 |
| | | | 1 | 1 | 23.57 | 23.63 | 23.46 | 1 |
| | | | 1 | 1 | 22.19 | 22.31 | 22.37 | 2.5 |
| | | | 1 | 1 | 19.96 | 20.12 | 19.95 | 4.5 |
| CP-OFDM | QPSK | 1 | 1 | 22.98 | 23.12 | 23.02 | 1.5 | |

10.7 LTE Average Conducted Output Power(Back-off_RCV, Grip Sensor)

10.7.1 LTE Band 2 (Main1)

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 18 700 | 18 900 | 19 100 | |
| | | | | 1 860.0 MHz | 1 880.0 MHz | 1 900.0 MHz | |
| 20 MHz | QPSK | 1 | 0 | 14.30 | 14.12 | 14.15 | 0 |
| | | 1 | 49 | 14.34 | 14.15 | 14.16 | 0 |
| | | 1 | 99 | 14.23 | 14.10 | 14.06 | 0 |
| | | 50 | 0 | 14.34 | 14.16 | 14.18 | 0 |
| | | 50 | 24 | 14.35 | 14.19 | 14.20 | 0 |
| | | 50 | 50 | 14.30 | 14.18 | 14.13 | 0 |
| | | 100 | 0 | 14.33 | 14.19 | 14.16 | 0 |
| | 16QAM | 1 | 0 | 14.51 | 14.34 | 14.39 | 0 |
| | | 1 | 49 | 14.38 | 14.15 | 14.24 | 0 |
| | | 1 | 99 | 14.54 | 14.22 | 14.23 | 0 |
| | | 50 | 0 | 14.33 | 14.15 | 14.12 | 0 |
| | | 50 | 24 | 14.33 | 14.13 | 14.18 | 0 |
| | | 50 | 50 | 14.29 | 14.11 | 14.10 | 0 |
| | | 100 | 0 | 14.31 | 14.15 | 14.15 | 0 |
| | 64QAM | 1 | 0 | 14.50 | 14.34 | 14.32 | 0 |
| | | 1 | 49 | 14.47 | 14.24 | 14.22 | 0 |
| | | 1 | 99 | 14.46 | 14.25 | 14.09 | 0 |
| | | 50 | 0 | 14.35 | 14.16 | 14.13 | 0 |
| | | 50 | 24 | 14.34 | 14.17 | 14.12 | 0 |
| | | 50 | 50 | 14.31 | 14.19 | 14.16 | 0 |
| | | 100 | 0 | 14.31 | 14.16 | 14.06 | 0 |
| | 256QAM | 1 | 0 | 14.49 | 14.34 | 14.15 | 0 |
| | | 1 | 49 | 14.52 | 14.25 | 14.26 | 0 |
| | | 1 | 99 | 14.50 | 14.23 | 14.23 | 0 |
| | | 50 | 0 | 14.39 | 14.22 | 14.15 | 0 |
| | | 50 | 24 | 14.39 | 14.14 | 14.10 | 0 |
| | | 50 | 50 | 14.32 | 14.18 | 14.09 | 0 |
| | | 100 | 0 | 14.35 | 14.17 | 14.15 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 18 675 | 18 900 | 19 125 | |
| | | | | 1 857.5 MHz | 1 880.0 MHz | 1 902.5 MHz | |
| 15 MHz | QPSK | 1 | 0 | 14.21 | 14.10 | 14.08 | 0 |
| | | 1 | 36 | 14.17 | 13.98 | 14.02 | 0 |
| | | 1 | 74 | 14.25 | 14.11 | 14.09 | 0 |
| | | 36 | 0 | 14.30 | 14.18 | 14.12 | 0 |
| | | 36 | 18 | 14.27 | 14.20 | 14.11 | 0 |
| | | 36 | 37 | 14.31 | 14.12 | 14.10 | 0 |
| | | 75 | 0 | 14.34 | 14.17 | 14.13 | 0 |
| | 16QAM | 1 | 0 | 14.47 | 14.24 | 14.34 | 0 |
| | | 1 | 36 | 14.46 | 14.23 | 14.16 | 0 |
| | | 1 | 74 | 14.54 | 14.31 | 14.24 | 0 |
| | | 36 | 0 | 14.27 | 14.15 | 14.11 | 0 |
| | | 36 | 18 | 14.28 | 14.12 | 14.06 | 0 |
| | | 36 | 37 | 14.28 | 14.15 | 14.05 | 0 |
| | | 75 | 0 | 14.29 | 14.12 | 14.06 | 0 |
| | 64QAM | 1 | 0 | 14.44 | 14.33 | 14.24 | 0 |
| | | 1 | 36 | 14.35 | 14.13 | 14.13 | 0 |
| | | 1 | 74 | 14.65 | 14.13 | 14.18 | 0 |
| | | 36 | 0 | 14.38 | 14.18 | 14.13 | 0 |
| | | 36 | 18 | 14.35 | 14.12 | 14.16 | 0 |
| | | 36 | 37 | 14.36 | 14.13 | 14.14 | 0 |
| | | 75 | 0 | 14.26 | 14.13 | 14.10 | 0 |
| | 256QAM | 1 | 0 | 14.27 | 14.27 | 14.18 | 0 |
| | | 1 | 36 | 14.33 | 14.10 | 14.13 | 0 |
| | | 1 | 74 | 14.43 | 14.15 | 14.18 | 0 |
| | | 36 | 0 | 14.36 | 14.13 | 14.16 | 0 |
| | | 36 | 18 | 14.30 | 14.10 | 14.13 | 0 |
| | | 36 | 37 | 14.32 | 14.16 | 14.05 | 0 |
| | | 75 | 0 | 14.35 | 14.13 | 14.12 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 18 650 | 18 900 | 19 150 | |
| | | | | 1 855.0 MHz | 1 880.0 MHz | 1 905.0 MHz | |
| 10 MHz | QPSK | 1 | 0 | 14.24 | 14.14 | 14.07 | 0 |
| | | 1 | 25 | 14.08 | 13.93 | 13.94 | 0 |
| | | 1 | 49 | 14.16 | 14.07 | 14.05 | 0 |
| | | 25 | 0 | 14.30 | 14.18 | 14.11 | 0 |
| | | 25 | 12 | 14.28 | 14.15 | 14.11 | 0 |
| | | 25 | 25 | 14.28 | 14.16 | 14.10 | 0 |
| | | 50 | 0 | 14.30 | 14.12 | 14.18 | 0 |
| | 16QAM | 1 | 0 | 14.47 | 14.24 | 14.28 | 0 |
| | | 1 | 25 | 14.30 | 14.20 | 14.14 | 0 |
| | | 1 | 49 | 14.46 | 14.40 | 14.37 | 0 |
| | | 25 | 0 | 14.36 | 14.10 | 14.14 | 0 |
| | | 25 | 12 | 14.25 | 14.15 | 14.16 | 0 |
| | | 25 | 25 | 14.24 | 14.15 | 14.08 | 0 |
| | | 50 | 0 | 14.31 | 14.15 | 14.14 | 0 |
| | 64QAM | 1 | 0 | 14.40 | 14.01 | 14.39 | 0 |
| | | 1 | 25 | 14.24 | 14.08 | 14.19 | 0 |
| | | 1 | 49 | 14.41 | 14.23 | 14.29 | 0 |
| | | 25 | 0 | 14.25 | 14.15 | 14.14 | 0 |
| | | 25 | 12 | 14.25 | 14.12 | 14.05 | 0 |
| | | 25 | 25 | 14.25 | 14.07 | 14.07 | 0 |
| | | 50 | 0 | 14.24 | 14.18 | 14.15 | 0 |
| | 256QAM | 1 | 0 | 14.35 | 14.19 | 14.20 | 0 |
| | | 1 | 25 | 14.11 | 14.08 | 14.01 | 0 |
| | | 1 | 49 | 14.30 | 14.14 | 14.07 | 0 |
| | | 25 | 0 | 14.25 | 14.14 | 14.15 | 0 |
| | | 25 | 12 | 14.29 | 14.12 | 14.06 | 0 |
| | | 25 | 25 | 14.24 | 14.17 | 14.07 | 0 |
| | | 50 | 0 | 14.26 | 14.12 | 14.05 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 18 625 | 18 900 | 19 175 | |
| | | | | 1 852.5 MHz | 1 880.0 MHz | 1 907.5 MHz | |
| 5 MHz | QPSK | 1 | 0 | 14.17 | 14.05 | 14.06 | 0 |
| | | 1 | 12 | 14.25 | 14.08 | 14.21 | 0 |
| | | 1 | 24 | 14.28 | 14.05 | 14.11 | 0 |
| | | 12 | 0 | 14.26 | 14.09 | 14.02 | 0 |
| | | 12 | 7 | 14.24 | 14.07 | 14.08 | 0 |
| | | 12 | 13 | 14.17 | 14.11 | 14.05 | 0 |
| | | 25 | 0 | 14.25 | 14.15 | 14.13 | 0 |
| | 16QAM | 1 | 0 | 14.50 | 14.30 | 14.23 | 0 |
| | | 1 | 12 | 14.32 | 14.17 | 14.00 | 0 |
| | | 1 | 24 | 14.45 | 14.26 | 14.28 | 0 |
| | | 12 | 0 | 14.27 | 14.11 | 14.11 | 0 |
| | | 12 | 7 | 14.26 | 14.11 | 14.16 | 0 |
| | | 12 | 13 | 14.24 | 14.12 | 14.12 | 0 |
| | | 25 | 0 | 14.30 | 14.19 | 14.12 | 0 |
| | 64QAM | 1 | 0 | 14.27 | 14.32 | 14.18 | 0 |
| | | 1 | 12 | 14.25 | 14.44 | 14.22 | 0 |
| | | 1 | 24 | 14.38 | 14.25 | 14.15 | 0 |
| | | 12 | 0 | 14.25 | 14.11 | 14.13 | 0 |
| | | 12 | 7 | 14.22 | 14.12 | 14.04 | 0 |
| | | 12 | 13 | 14.23 | 14.19 | 14.13 | 0 |
| | | 25 | 0 | 14.21 | 14.13 | 14.02 | 0 |
| | 256QAM | 1 | 0 | 14.32 | 14.23 | 14.22 | 0 |
| | | 1 | 12 | 14.38 | 14.30 | 14.23 | 0 |
| | | 1 | 24 | 14.35 | 14.24 | 14.18 | 0 |
| | | 12 | 0 | 14.21 | 14.11 | 14.10 | 0 |
| | | 12 | 7 | 14.23 | 14.12 | 14.08 | 0 |
| | | 12 | 13 | 14.19 | 14.13 | 14.04 | 0 |
| | | 25 | 0 | 14.22 | 14.10 | 14.10 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 18 615 | 18 900 | 19 185 | |
| | | | | 1 851.5 MHz | 1 880.0 MHz | 1 908.5 MHz | |
| 3 MHz | QPSK | 1 | 0 | 14.22 | 14.04 | 14.06 | 0 |
| | | 1 | 8 | 14.11 | 13.93 | 13.92 | 0 |
| | | 1 | 14 | 14.07 | 13.93 | 14.01 | 0 |
| | | 8 | 0 | 14.21 | 14.11 | 14.02 | 0 |
| | | 8 | 4 | 14.21 | 14.08 | 13.99 | 0 |
| | | 8 | 7 | 14.27 | 14.12 | 14.08 | 0 |
| | | 15 | 0 | 14.30 | 14.14 | 14.08 | 0 |
| | 16QAM | 1 | 0 | 14.33 | 14.18 | 14.21 | 0 |
| | | 1 | 8 | 14.28 | 14.30 | 14.14 | 0 |
| | | 1 | 14 | 14.41 | 14.23 | 14.25 | 0 |
| | | 8 | 0 | 14.26 | 14.14 | 14.09 | 0 |
| | | 8 | 4 | 14.27 | 14.13 | 14.09 | 0 |
| | | 8 | 7 | 14.25 | 14.28 | 14.06 | 0 |
| | | 15 | 0 | 14.22 | 14.16 | 14.07 | 0 |
| | 64QAM | 1 | 0 | 14.38 | 14.30 | 14.11 | 0 |
| | | 1 | 8 | 14.36 | 14.07 | 14.12 | 0 |
| | | 1 | 14 | 14.33 | 14.24 | 14.14 | 0 |
| | | 8 | 0 | 14.28 | 14.13 | 14.02 | 0 |
| | | 8 | 4 | 14.25 | 14.12 | 14.06 | 0 |
| | | 8 | 7 | 14.24 | 14.11 | 14.06 | 0 |
| | | 15 | 0 | 14.27 | 14.11 | 14.13 | 0 |
| | 256QAM | 1 | 0 | 14.27 | 14.16 | 14.12 | 0 |
| | | 1 | 8 | 14.16 | 14.05 | 14.00 | 0 |
| | | 1 | 14 | 14.26 | 14.12 | 14.01 | 0 |
| | | 8 | 0 | 14.25 | 14.11 | 14.06 | 0 |
| | | 8 | 4 | 14.20 | 14.03 | 14.02 | 0 |
| | | 8 | 7 | 14.26 | 14.11 | 14.05 | 0 |
| | | 15 | 0 | 14.18 | 14.11 | 14.02 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 18 607 | 18 900 | 19 193 | |
| | | | | 1 850.7 MHz | 1 880.0 MHz | 1 909.3 MHz | |
| 1.4 MHz | QPSK | 1 | 0 | 14.16 | 14.01 | 13.99 | 0 |
| | | 1 | 3 | 14.02 | 13.93 | 13.85 | 0 |
| | | 1 | 5 | 14.20 | 14.01 | 14.02 | 0 |
| | | 3 | 0 | 14.26 | 14.04 | 14.06 | 0 |
| | | 3 | 1 | 14.15 | 14.09 | 14.13 | 0 |
| | | 3 | 3 | 14.12 | 14.05 | 14.00 | 0 |
| | | 6 | 0 | 14.18 | 14.06 | 13.95 | 0 |
| | 16QAM | 1 | 0 | 14.38 | 14.31 | 14.16 | 0 |
| | | 1 | 3 | 14.26 | 14.22 | 14.21 | 0 |
| | | 1 | 5 | 14.38 | 14.24 | 14.18 | 0 |
| | | 3 | 0 | 14.28 | 13.99 | 14.03 | 0 |
| | | 3 | 1 | 14.14 | 14.09 | 14.13 | 0 |
| | | 3 | 3 | 14.23 | 14.06 | 14.14 | 0 |
| | | 6 | 0 | 14.20 | 13.96 | 14.05 | 0 |
| | 64QAM | 1 | 0 | 14.41 | 14.21 | 14.24 | 0 |
| | | 1 | 3 | 14.17 | 14.13 | 14.08 | 0 |
| | | 1 | 5 | 14.22 | 14.07 | 14.13 | 0 |
| | | 3 | 0 | 14.19 | 14.10 | 14.05 | 0 |
| | | 3 | 1 | 14.27 | 14.08 | 13.96 | 0 |
| | | 3 | 3 | 14.21 | 14.01 | 13.96 | 0 |
| | | 6 | 0 | 14.21 | 14.05 | 13.97 | 0 |
| | 256QAM | 1 | 0 | 14.26 | 14.04 | 14.07 | 0 |
| | | 1 | 3 | 14.23 | 14.02 | 14.09 | 0 |
| | | 1 | 5 | 14.42 | 14.13 | 14.12 | 0 |
| | | 3 | 0 | 14.18 | 14.08 | 14.05 | 0 |
| | | 3 | 1 | 14.21 | 14.03 | 13.98 | 0 |
| | | 3 | 3 | 14.29 | 14.06 | 14.09 | 0 |
| | | 6 | 0 | 14.20 | 13.99 | 14.01 | 0 |

10.7.2 LTE Band 2 (Sub1)

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 18 700 | 18 900 | 19 100 | |
| | | | | 1 860.0 MHz | 1 880.0 MHz | 1 900.0 MHz | |
| 20 MHz | QPSK | 1 | 0 | 14.76 | 14.44 | 14.49 | 0 |
| | | 1 | 49 | 14.69 | 14.39 | 14.32 | 0 |
| | | 1 | 99 | 14.51 | 14.33 | 14.22 | 0 |
| | | 50 | 0 | 14.74 | 14.45 | 14.44 | 0 |
| | | 50 | 24 | 14.70 | 14.51 | 14.33 | 0 |
| | | 50 | 50 | 14.70 | 14.46 | 14.32 | 0 |
| | | 100 | 0 | 14.73 | 14.48 | 14.30 | 0 |
| | 16QAM | 1 | 0 | 14.82 | 14.73 | 14.70 | 0 |
| | | 1 | 49 | 14.72 | 14.87 | 14.62 | 0 |
| | | 1 | 99 | 14.79 | 14.57 | 14.43 | 0 |
| | | 50 | 0 | 14.69 | 14.46 | 14.45 | 0 |
| | | 50 | 24 | 14.69 | 14.45 | 14.39 | 0 |
| | | 50 | 50 | 14.67 | 14.45 | 14.32 | 0 |
| | | 100 | 0 | 14.67 | 14.43 | 14.42 | 0 |
| | 64QAM | 1 | 0 | 14.83 | 14.61 | 14.67 | 0 |
| | | 1 | 49 | 14.82 | 14.63 | 14.49 | 0 |
| | | 1 | 99 | 14.67 | 14.53 | 14.42 | 0 |
| | | 50 | 0 | 14.72 | 14.47 | 14.44 | 0 |
| | | 50 | 24 | 14.74 | 14.46 | 14.40 | 0 |
| | | 50 | 50 | 14.68 | 14.48 | 14.38 | 0 |
| | | 100 | 0 | 14.65 | 14.41 | 14.34 | 0 |
| | 256QAM | 1 | 0 | 14.65 | 14.69 | 14.56 | 0 |
| | | 1 | 49 | 14.63 | 14.45 | 14.48 | 0 |
| | | 1 | 99 | 14.55 | 14.41 | 14.33 | 0 |
| | | 50 | 0 | 14.63 | 14.47 | 14.41 | 0 |
| | | 50 | 24 | 14.62 | 14.45 | 14.42 | 0 |
| | | 50 | 50 | 14.63 | 14.46 | 14.34 | 0 |
| | | 100 | 0 | 14.67 | 14.49 | 14.36 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 18 675 | 18 900 | 19 125 | |
| | | | | 1 857.5 MHz | 1 880.0 MHz | 1 902.5 MHz | |
| 15 MHz | QPSK | 1 | 0 | 14.70 | 14.36 | 14.30 | 0 |
| | | 1 | 36 | 14.56 | 14.22 | 14.25 | 0 |
| | | 1 | 74 | 14.51 | 14.31 | 14.23 | 0 |
| | | 36 | 0 | 14.67 | 14.34 | 14.39 | 0 |
| | | 36 | 18 | 14.71 | 14.55 | 14.34 | 0 |
| | | 36 | 37 | 14.67 | 14.39 | 14.30 | 0 |
| | | 75 | 0 | 14.70 | 14.46 | 14.22 | 0 |
| | 16QAM | 1 | 0 | 14.90 | 14.85 | 14.83 | 0 |
| | | 1 | 36 | 14.81 | 14.85 | 14.74 | 0 |
| | | 1 | 74 | 14.88 | 14.68 | 14.50 | 0 |
| | | 36 | 0 | 14.74 | 14.53 | 14.47 | 0 |
| | | 36 | 18 | 14.66 | 14.46 | 14.37 | 0 |
| | | 36 | 37 | 14.67 | 14.47 | 14.34 | 0 |
| | | 75 | 0 | 14.64 | 14.45 | 14.39 | 0 |
| | 64QAM | 1 | 0 | 14.83 | 14.58 | 14.69 | 0 |
| | | 1 | 36 | 14.90 | 14.66 | 14.55 | 0 |
| | | 1 | 74 | 14.70 | 14.59 | 14.47 | 0 |
| | | 36 | 0 | 14.74 | 14.50 | 14.49 | 0 |
| | | 36 | 18 | 14.73 | 14.47 | 14.41 | 0 |
| | | 36 | 37 | 14.68 | 14.49 | 14.36 | 0 |
| | | 75 | 0 | 14.71 | 14.58 | 14.36 | 0 |
| | 256QAM | 1 | 0 | 14.75 | 14.84 | 14.62 | 0 |
| | | 1 | 36 | 14.67 | 14.57 | 14.50 | 0 |
| | | 1 | 74 | 14.70 | 14.59 | 14.46 | 0 |
| | | 36 | 0 | 14.69 | 14.52 | 14.48 | 0 |
| | | 36 | 18 | 14.71 | 14.55 | 14.52 | 0 |
| | | 36 | 37 | 14.67 | 14.46 | 14.39 | 0 |
| | | 75 | 0 | 14.72 | 14.57 | 14.36 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 18 650 | 18 900 | 19 150 | |
| | | | | 1 855.0 MHz | 1 880.0 MHz | 1 905.0 MHz | |
| 10 MHz | QPSK | 1 | 0 | 14.55 | 14.28 | 14.30 | 0 |
| | | 1 | 25 | 14.62 | 14.34 | 14.20 | 0 |
| | | 1 | 49 | 14.64 | 14.46 | 14.32 | 0 |
| | | 25 | 0 | 14.72 | 14.41 | 14.44 | 0 |
| | | 25 | 12 | 14.65 | 14.43 | 14.27 | 0 |
| | | 25 | 25 | 14.64 | 14.45 | 14.24 | 0 |
| | | 50 | 0 | 14.66 | 14.44 | 14.19 | 0 |
| | 16QAM | 1 | 0 | 14.86 | 14.79 | 14.77 | 0 |
| | | 1 | 25 | 14.75 | 14.58 | 14.68 | 0 |
| | | 1 | 49 | 14.91 | 14.67 | 14.54 | 0 |
| | | 25 | 0 | 14.67 | 14.44 | 14.46 | 0 |
| | | 25 | 12 | 14.75 | 14.54 | 14.49 | 0 |
| | | 25 | 25 | 14.67 | 14.48 | 14.36 | 0 |
| | | 50 | 0 | 14.69 | 14.48 | 14.47 | 0 |
| | 64QAM | 1 | 0 | 14.88 | 14.64 | 14.74 | 0 |
| | | 1 | 25 | 14.86 | 14.70 | 14.52 | 0 |
| | | 1 | 49 | 14.92 | 14.76 | 14.62 | 0 |
| | | 25 | 0 | 14.66 | 14.44 | 14.36 | 0 |
| | | 25 | 12 | 14.64 | 14.32 | 14.30 | 0 |
| | | 25 | 25 | 14.70 | 14.54 | 14.39 | 0 |
| | | 50 | 0 | 14.68 | 14.48 | 14.37 | 0 |
| | 256QAM | 1 | 0 | 14.81 | 14.86 | 14.73 | 0 |
| | | 1 | 25 | 14.73 | 14.50 | 14.58 | 0 |
| | | 1 | 49 | 14.75 | 14.56 | 14.49 | 0 |
| | | 25 | 0 | 14.66 | 14.55 | 14.43 | 0 |
| | | 25 | 12 | 14.75 | 14.56 | 14.50 | 0 |
| | | 25 | 25 | 14.65 | 14.48 | 14.45 | 0 |
| | | 50 | 0 | 14.73 | 14.52 | 14.41 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 18 625 | 18 900 | 19 175 | |
| | | | | 1 852.5 MHz | 1 880.0 MHz | 1 907.5 MHz | |
| 5 MHz | QPSK | 1 | 0 | 14.61 | 14.35 | 14.37 | 0 |
| | | 1 | 12 | 14.67 | 14.34 | 14.30 | 0 |
| | | 1 | 24 | 14.62 | 14.48 | 14.33 | 0 |
| | | 12 | 0 | 14.63 | 14.39 | 14.37 | 0 |
| | | 12 | 7 | 14.64 | 14.40 | 14.22 | 0 |
| | | 12 | 13 | 14.54 | 14.28 | 14.12 | 0 |
| | | 25 | 0 | 14.61 | 14.34 | 14.20 | 0 |
| | 16QAM | 1 | 0 | 14.84 | 14.80 | 14.72 | 0 |
| | | 1 | 12 | 14.76 | 14.76 | 14.69 | 0 |
| | | 1 | 24 | 14.93 | 14.67 | 14.53 | 0 |
| | | 12 | 0 | 14.64 | 14.45 | 14.42 | 0 |
| | | 12 | 7 | 14.67 | 14.47 | 14.38 | 0 |
| | | 12 | 13 | 14.64 | 14.39 | 14.34 | 0 |
| | | 25 | 0 | 14.62 | 14.38 | 14.38 | 0 |
| | 64QAM | 1 | 0 | 14.73 | 14.51 | 14.56 | 0 |
| | | 1 | 12 | 14.81 | 14.63 | 14.49 | 0 |
| | | 1 | 24 | 14.70 | 14.55 | 14.42 | 0 |
| | | 12 | 0 | 14.63 | 14.33 | 14.40 | 0 |
| | | 12 | 7 | 14.65 | 14.36 | 14.34 | 0 |
| | | 12 | 13 | 14.63 | 14.47 | 14.42 | 0 |
| | | 25 | 0 | 14.62 | 14.34 | 14.27 | 0 |
| | 256QAM | 1 | 0 | 14.65 | 14.72 | 14.59 | 0 |
| | | 1 | 12 | 14.70 | 14.52 | 14.51 | 0 |
| | | 1 | 24 | 14.69 | 14.53 | 14.49 | 0 |
| | | 12 | 0 | 14.61 | 14.43 | 14.37 | 0 |
| | | 12 | 7 | 14.63 | 14.43 | 14.38 | 0 |
| | | 12 | 13 | 14.62 | 14.49 | 14.32 | 0 |
| | | 25 | 0 | 14.61 | 14.45 | 14.31 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 18 615 | 18 900 | 19 185 | |
| | | | | 1 851.5 MHz | 1 880.0 MHz | 1 908.5 MHz | |
| 3 MHz | QPSK | 1 | 0 | 14.62 | 14.33 | 14.36 | 0 |
| | | 1 | 8 | 14.63 | 14.28 | 14.25 | 0 |
| | | 1 | 14 | 14.58 | 14.35 | 14.26 | 0 |
| | | 8 | 0 | 14.66 | 14.33 | 14.41 | 0 |
| | | 8 | 4 | 14.59 | 14.40 | 14.20 | 0 |
| | | 8 | 7 | 14.57 | 14.35 | 14.22 | 0 |
| | | 15 | 0 | 14.58 | 14.35 | 14.20 | 0 |
| | 16QAM | 1 | 0 | 14.85 | 14.76 | 14.74 | 0 |
| | | 1 | 8 | 14.70 | 14.75 | 14.58 | 0 |
| | | 1 | 14 | 14.71 | 14.46 | 14.31 | 0 |
| | | 8 | 0 | 14.70 | 14.49 | 14.46 | 0 |
| | | 8 | 4 | 14.67 | 14.48 | 14.36 | 0 |
| | | 8 | 7 | 14.69 | 14.43 | 14.33 | 0 |
| | | 15 | 0 | 14.62 | 14.43 | 14.38 | 0 |
| | 64QAM | 1 | 0 | 14.78 | 14.55 | 14.65 | 0 |
| | | 1 | 8 | 14.73 | 14.58 | 14.39 | 0 |
| | | 1 | 14 | 14.82 | 14.73 | 14.57 | 0 |
| | | 8 | 0 | 14.62 | 14.36 | 14.31 | 0 |
| | | 8 | 4 | 14.70 | 14.44 | 14.36 | 0 |
| | | 8 | 7 | 14.64 | 14.46 | 14.36 | 0 |
| | | 15 | 0 | 14.66 | 14.43 | 14.37 | 0 |
| | 256QAM | 1 | 0 | 14.80 | 14.72 | 14.74 | 0 |
| | | 1 | 8 | 14.64 | 14.45 | 14.54 | 0 |
| | | 1 | 14 | 14.81 | 14.71 | 14.58 | 0 |
| | | 8 | 0 | 14.63 | 14.42 | 14.42 | 0 |
| | | 8 | 4 | 14.65 | 14.44 | 14.47 | 0 |
| | | 8 | 7 | 14.59 | 14.47 | 14.30 | 0 |
| | | 15 | 0 | 14.64 | 14.45 | 14.31 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 18 607 | 18 900 | 19 193 | |
| | | | | 1 850.7 MHz | 1 880.0 MHz | 1 909.3 MHz | |
| 1.4 MHz | QPSK | 1 | 0 | 14.58 | 14.22 | 14.26 | 0 |
| | | 1 | 3 | 14.47 | 14.19 | 14.12 | 0 |
| | | 1 | 5 | 14.54 | 14.38 | 14.27 | 0 |
| | | 3 | 0 | 14.52 | 14.18 | 14.23 | 0 |
| | | 3 | 1 | 14.57 | 14.41 | 14.19 | 0 |
| | | 3 | 3 | 14.49 | 14.23 | 14.06 | 0 |
| | | 6 | 0 | 14.56 | 14.27 | 14.08 | 0 |
| | 16QAM | 1 | 0 | 14.79 | 14.69 | 14.68 | 0 |
| | | 1 | 3 | 14.70 | 14.81 | 14.62 | 0 |
| | | 1 | 5 | 14.68 | 14.43 | 14.37 | 0 |
| | | 3 | 0 | 14.71 | 14.53 | 14.42 | 0 |
| | | 3 | 1 | 14.62 | 14.34 | 14.30 | 0 |
| | | 3 | 3 | 14.53 | 14.33 | 14.14 | 0 |
| | | 6 | 0 | 14.62 | 14.39 | 14.42 | 0 |
| | 64QAM | 1 | 0 | 14.74 | 14.57 | 14.63 | 0 |
| | | 1 | 3 | 14.68 | 14.52 | 14.36 | 0 |
| | | 1 | 5 | 14.73 | 14.62 | 14.43 | 0 |
| | | 3 | 0 | 14.67 | 14.39 | 14.36 | 0 |
| | | 3 | 1 | 14.68 | 14.37 | 14.35 | 0 |
| | | 3 | 3 | 14.62 | 14.41 | 14.37 | 0 |
| | | 6 | 0 | 14.71 | 14.52 | 14.36 | 0 |
| | 256QAM | 1 | 0 | 14.67 | 14.69 | 14.53 | 0 |
| | | 1 | 3 | 14.64 | 14.43 | 14.44 | 0 |
| | | 1 | 5 | 14.61 | 14.44 | 14.40 | 0 |
| | | 3 | 0 | 14.64 | 14.48 | 14.46 | 0 |
| | | 3 | 1 | 14.67 | 14.52 | 14.50 | 0 |
| | | 3 | 3 | 14.65 | 14.45 | 14.31 | 0 |
| | | 6 | 0 | 14.61 | 14.46 | 14.30 | 0 |

10.7.3 LTE Band 5

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | |
|------------|------------|---------|-----------|-----------------------|---|-----|
| | | | | 20 525 | | MPR |
| | | | | 836.5 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 16.35 | 0 | |
| | | 1 | 25 | 16.09 | 0 | |
| | | 1 | 49 | 16.10 | 0 | |
| | | 25 | 0 | 16.34 | 0 | |
| | | 25 | 12 | 16.29 | 0 | |
| | | 25 | 25 | 16.26 | 0 | |
| | | 50 | 0 | 16.31 | 0 | |
| | 16QAM | 1 | 0 | 16.51 | 0 | |
| | | 1 | 25 | 16.35 | 0 | |
| | | 1 | 49 | 16.28 | 0 | |
| | | 25 | 0 | 16.32 | 0 | |
| | | 25 | 12 | 16.34 | 0 | |
| | | 25 | 25 | 16.24 | 0 | |
| | | 50 | 0 | 16.26 | 0 | |
| | 64QAM | 1 | 0 | 16.35 | 0 | |
| | | 1 | 25 | 16.27 | 0 | |
| | | 1 | 49 | 16.17 | 0 | |
| | | 25 | 0 | 16.24 | 0 | |
| | | 25 | 12 | 16.22 | 0 | |
| | | 25 | 25 | 16.20 | 0 | |
| | | 50 | 0 | 16.30 | 0 | |
| | 256QAM | 1 | 0 | 16.32 | 0 | |
| | | 1 | 25 | 16.29 | 0 | |
| | | 1 | 49 | 16.32 | 0 | |
| | | 25 | 0 | 16.28 | 0 | |
| | | 25 | 12 | 16.22 | 0 | |
| | | 25 | 25 | 16.23 | 0 | |
| | | 50 | 0 | 16.28 | 0 | |

10 MHz Bandwidths does not support at least three non-overlapping channels in certain channel bandwidths. 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 per KDB 941225 D05 SAR for LTE Devices.

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-----------|-----------|-----|
| | | | | 20 425 | 20 525 | 20 625 | |
| | | | | 826.5 MHz | 836.5 MHz | 846.5 MHz | |
| 5 MHz | QPSK | 1 | 0 | 16.17 | 16.14 | 16.08 | 0 |
| | | 1 | 12 | 16.21 | 16.24 | 16.06 | 0 |
| | | 1 | 24 | 16.14 | 16.19 | 16.06 | 0 |
| | | 12 | 0 | 16.23 | 16.25 | 16.11 | 0 |
| | | 12 | 7 | 16.22 | 16.23 | 16.14 | 0 |
| | | 12 | 13 | 16.27 | 16.26 | 16.15 | 0 |
| | | 25 | 0 | 16.27 | 16.30 | 16.21 | 0 |
| | 16QAM | 1 | 0 | 16.27 | 16.43 | 16.12 | 0 |
| | | 1 | 12 | 16.21 | 16.36 | 16.16 | 0 |
| | | 1 | 24 | 16.33 | 16.41 | 16.29 | 0 |
| | | 12 | 0 | 16.27 | 16.22 | 16.06 | 0 |
| | | 12 | 7 | 16.27 | 16.23 | 16.11 | 0 |
| | | 12 | 13 | 16.24 | 16.25 | 16.13 | 0 |
| | | 25 | 0 | 16.29 | 16.33 | 16.23 | 0 |
| | 64QAM | 1 | 0 | 16.42 | 16.37 | 16.15 | 0 |
| | | 1 | 12 | 16.29 | 16.14 | 16.17 | 0 |
| | | 1 | 24 | 16.16 | 16.23 | 16.11 | 0 |
| | | 12 | 0 | 16.26 | 16.22 | 16.10 | 0 |
| | | 12 | 7 | 16.28 | 16.19 | 16.14 | 0 |
| | | 12 | 13 | 16.24 | 16.21 | 16.07 | 0 |
| | | 25 | 0 | 16.28 | 16.27 | 16.19 | 0 |
| | 256QAM | 1 | 0 | 16.43 | 16.37 | 16.19 | 0 |
| | | 1 | 12 | 16.38 | 16.25 | 16.12 | 0 |
| | | 1 | 24 | 16.19 | 16.11 | 16.31 | 0 |
| | | 12 | 0 | 16.24 | 16.27 | 16.05 | 0 |
| | | 12 | 7 | 16.18 | 16.20 | 16.13 | 0 |
| | | 12 | 13 | 16.20 | 16.23 | 16.19 | 0 |
| | | 25 | 0 | 16.28 | 16.29 | 16.18 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-----------|-----------|-----|
| | | | | 20 415 | 20 525 | 20 635 | |
| | | | | 825.5 MHz | 836.5 MHz | 847.5 MHz | |
| 3 MHz | QPSK | 1 | 0 | 16.24 | 16.27 | 16.07 | 0 |
| | | 1 | 8 | 16.08 | 16.10 | 16.01 | 0 |
| | | 1 | 14 | 16.17 | 16.13 | 16.09 | 0 |
| | | 8 | 0 | 16.25 | 16.28 | 16.12 | 0 |
| | | 8 | 4 | 16.18 | 16.13 | 16.08 | 0 |
| | | 8 | 7 | 16.24 | 16.25 | 16.15 | 0 |
| | | 15 | 0 | 16.28 | 16.30 | 16.11 | 0 |
| | 16QAM | 1 | 0 | 16.38 | 16.44 | 16.35 | 0 |
| | | 1 | 8 | 16.40 | 16.44 | 16.30 | 0 |
| | | 1 | 14 | 16.39 | 16.32 | 16.21 | 0 |
| | | 8 | 0 | 16.25 | 16.26 | 16.17 | 0 |
| | | 8 | 4 | 16.25 | 16.30 | 16.09 | 0 |
| | | 8 | 7 | 16.22 | 16.26 | 16.07 | 0 |
| | | 15 | 0 | 16.25 | 16.16 | 16.13 | 0 |
| | 64QAM | 1 | 0 | 16.34 | 16.32 | 16.20 | 0 |
| | | 1 | 8 | 16.13 | 16.24 | 16.08 | 0 |
| | | 1 | 14 | 16.41 | 16.46 | 16.18 | 0 |
| | | 8 | 0 | 16.14 | 16.19 | 16.06 | 0 |
| | | 8 | 4 | 16.22 | 16.22 | 16.07 | 0 |
| | | 8 | 7 | 16.20 | 16.25 | 16.13 | 0 |
| | | 15 | 0 | 16.22 | 16.31 | 16.18 | 0 |
| | 256QAM | 1 | 0 | 16.38 | 16.25 | 16.18 | 0 |
| | | 1 | 8 | 16.21 | 16.17 | 16.21 | 0 |
| | | 1 | 14 | 16.27 | 16.20 | 16.10 | 0 |
| | | 8 | 0 | 16.27 | 16.32 | 16.05 | 0 |
| | | 8 | 4 | 16.26 | 16.18 | 16.01 | 0 |
| | | 8 | 7 | 16.30 | 16.16 | 16.04 | 0 |
| | | 15 | 0 | 16.23 | 16.15 | 16.12 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-----------|-----------|-----|
| | | | | 20 407 | 20 525 | 20 643 | |
| | | | | 824.7 MHz | 836.5 MHz | 848.3 MHz | |
| 1.4 MHz | QPSK | 1 | 0 | 16.17 | 16.12 | 16.01 | 0 |
| | | 1 | 3 | 16.10 | 16.04 | 16.02 | 0 |
| | | 1 | 5 | 16.17 | 16.08 | 16.00 | 0 |
| | | 3 | 0 | 16.12 | 16.22 | 16.05 | 0 |
| | | 3 | 1 | 16.19 | 16.13 | 16.00 | 0 |
| | | 3 | 3 | 16.12 | 16.09 | 16.05 | 0 |
| | | 6 | 0 | 16.17 | 16.13 | 16.05 | 0 |
| | 16QAM | 1 | 0 | 16.39 | 16.40 | 16.14 | 0 |
| | | 1 | 3 | 16.38 | 16.28 | 16.12 | 0 |
| | | 1 | 5 | 16.14 | 16.23 | 16.21 | 0 |
| | | 3 | 0 | 16.22 | 16.23 | 16.12 | 0 |
| | | 3 | 1 | 16.35 | 16.20 | 16.10 | 0 |
| | | 3 | 3 | 16.16 | 16.20 | 16.06 | 0 |
| | | 6 | 0 | 16.09 | 16.16 | 16.06 | 0 |
| | 64QAM | 1 | 0 | 16.24 | 16.33 | 16.21 | 0 |
| | | 1 | 3 | 16.16 | 16.17 | 16.02 | 0 |
| | | 1 | 5 | 16.25 | 16.16 | 16.18 | 0 |
| | | 3 | 0 | 16.19 | 16.18 | 16.05 | 0 |
| | | 3 | 1 | 16.23 | 16.15 | 16.15 | 0 |
| | | 3 | 3 | 16.19 | 16.21 | 16.08 | 0 |
| | | 6 | 0 | 16.17 | 16.13 | 16.10 | 0 |
| | 256QAM | 1 | 0 | 16.28 | 16.31 | 16.17 | 0 |
| | | 1 | 3 | 16.14 | 16.18 | 16.02 | 0 |
| | | 1 | 5 | 16.27 | 16.19 | 16.07 | 0 |
| | | 3 | 0 | 16.19 | 16.20 | 16.11 | 0 |
| | | 3 | 1 | 16.21 | 16.27 | 16.02 | 0 |
| | | 3 | 3 | 16.23 | 16.21 | 16.05 | 0 |
| | | 6 | 0 | 16.19 | 16.15 | 16.06 | 0 |

10.7.4 LTE Band 12

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | |
|------------|------------|---------|-----------|-----------------------|-----|
| | | | | 23 095 | MPR |
| | | | | 707.5 MHz | |
| 10 MHz | QPSK | 1 | 0 | 15.40 | 0 |
| | | 1 | 25 | 15.14 | 0 |
| | | 1 | 49 | 15.09 | 0 |
| | | 25 | 0 | 15.38 | 0 |
| | | 25 | 12 | 15.20 | 0 |
| | | 25 | 25 | 15.16 | 0 |
| | | 50 | 0 | 15.23 | 0 |
| | 16QAM | 1 | 0 | 15.30 | 0 |
| | | 1 | 25 | 15.12 | 0 |
| | | 1 | 49 | 15.07 | 0 |
| | | 25 | 0 | 15.19 | 0 |
| | | 25 | 12 | 15.20 | 0 |
| | | 25 | 25 | 15.18 | 0 |
| | | 50 | 0 | 15.16 | 0 |
| | 64QAM | 1 | 0 | 15.39 | 0 |
| | | 1 | 25 | 15.17 | 0 |
| | | 1 | 49 | 15.18 | 0 |
| | | 25 | 0 | 15.26 | 0 |
| | | 25 | 12 | 15.27 | 0 |
| | | 25 | 25 | 15.15 | 0 |
| | | 50 | 0 | 15.28 | 0 |
| | 256QAM | 1 | 0 | 15.54 | 0 |
| | | 1 | 25 | 15.16 | 0 |
| | | 1 | 49 | 15.09 | 0 |
| | | 25 | 0 | 15.27 | 0 |
| | | 25 | 12 | 15.19 | 0 |
| | | 25 | 25 | 15.25 | 0 |
| | | 50 | 0 | 15.24 | 0 |

10 MHz Bandwidths does not support at least three non-overlapping channels in certain channel bandwidths. 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 per KDB 941225 D05 SAR for LTE Devices.

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-----------|-----------|-----|
| | | | | 23 035 | 23 095 | 23 155 | |
| | | | | 701.5 MHz | 707.5 MHz | 713.5 MHz | |
| 5 MHz | QPSK | 1 | 0 | 15.35 | 15.17 | 15.05 | 0 |
| | | 1 | 12 | 15.32 | 15.01 | 15.05 | 0 |
| | | 1 | 24 | 15.24 | 15.11 | 15.06 | 0 |
| | | 12 | 0 | 15.31 | 15.12 | 15.12 | 0 |
| | | 12 | 7 | 15.25 | 15.14 | 15.12 | 0 |
| | | 12 | 13 | 15.21 | 15.10 | 15.07 | 0 |
| | | 25 | 0 | 15.28 | 15.16 | 15.10 | 0 |
| | 16QAM | 1 | 0 | 15.60 | 15.18 | 15.37 | 0 |
| | | 1 | 12 | 15.58 | 15.20 | 15.30 | 0 |
| | | 1 | 24 | 15.55 | 15.10 | 15.02 | 0 |
| | | 12 | 0 | 15.23 | 15.09 | 15.16 | 0 |
| | | 12 | 7 | 15.22 | 15.16 | 15.09 | 0 |
| | | 12 | 13 | 15.17 | 15.11 | 15.04 | 0 |
| | | 25 | 0 | 15.29 | 15.11 | 15.13 | 0 |
| | 64QAM | 1 | 0 | 15.30 | 15.55 | 15.40 | 0 |
| | | 1 | 12 | 15.38 | 15.37 | 15.27 | 0 |
| | | 1 | 24 | 15.32 | 15.34 | 15.08 | 0 |
| | | 12 | 0 | 15.36 | 15.23 | 15.19 | 0 |
| | | 12 | 7 | 15.31 | 15.19 | 15.17 | 0 |
| | | 12 | 13 | 15.34 | 15.18 | 15.12 | 0 |
| | | 25 | 0 | 15.30 | 15.17 | 15.15 | 0 |
| | 256QAM | 1 | 0 | 15.31 | 15.30 | 15.25 | 0 |
| | | 1 | 12 | 15.17 | 15.08 | 15.12 | 0 |
| | | 1 | 24 | 15.22 | 15.39 | 15.17 | 0 |
| | | 12 | 0 | 15.31 | 15.20 | 15.16 | 0 |
| | | 12 | 7 | 15.29 | 15.17 | 15.07 | 0 |
| | | 12 | 13 | 15.23 | 15.22 | 15.19 | 0 |
| | | 25 | 0 | 15.35 | 15.18 | 15.20 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-----------|-----------|-----|
| | | | | 23 025 | 23 095 | 23 165 | |
| | | | | 700.5 MHz | 707.5 MHz | 714.5 MHz | |
| 3 MHz | QPSK | 1 | 0 | 15.36 | 15.22 | 15.15 | 0 |
| | | 1 | 8 | 15.24 | 15.14 | 15.06 | 0 |
| | | 1 | 14 | 15.30 | 15.21 | 15.17 | 0 |
| | | 8 | 0 | 15.38 | 15.19 | 15.15 | 0 |
| | | 8 | 4 | 15.34 | 15.23 | 15.06 | 0 |
| | | 8 | 7 | 15.33 | 15.16 | 15.12 | 0 |
| | | 15 | 0 | 15.33 | 15.18 | 15.09 | 0 |
| | 16QAM | 1 | 0 | 15.72 | 15.22 | 15.31 | 0 |
| | | 1 | 8 | 15.61 | 15.20 | 15.21 | 0 |
| | | 1 | 14 | 15.66 | 15.18 | 15.24 | 0 |
| | | 8 | 0 | 15.42 | 15.19 | 15.00 | 0 |
| | | 8 | 4 | 15.47 | 15.13 | 15.03 | 0 |
| | | 8 | 7 | 15.41 | 15.12 | 15.01 | 0 |
| | | 15 | 0 | 15.32 | 15.23 | 15.07 | 0 |
| | 64QAM | 1 | 0 | 15.31 | 15.45 | 15.41 | 0 |
| | | 1 | 8 | 15.44 | 15.28 | 15.29 | 0 |
| | | 1 | 14 | 15.56 | 15.34 | 15.30 | 0 |
| | | 8 | 0 | 15.41 | 15.44 | 15.17 | 0 |
| | | 8 | 4 | 15.33 | 15.30 | 15.28 | 0 |
| | | 8 | 7 | 15.45 | 15.30 | 15.12 | 0 |
| | | 15 | 0 | 15.37 | 15.29 | 15.24 | 0 |
| | 256QAM | 1 | 0 | 15.41 | 15.31 | 15.34 | 0 |
| | | 1 | 8 | 15.51 | 15.21 | 15.18 | 0 |
| | | 1 | 14 | 15.46 | 15.36 | 15.17 | 0 |
| | | 8 | 0 | 15.33 | 15.29 | 15.30 | 0 |
| | | 8 | 4 | 15.33 | 15.31 | 15.22 | 0 |
| | | 8 | 7 | 15.48 | 15.23 | 15.26 | 0 |
| | | 15 | 0 | 15.35 | 15.32 | 15.18 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-----------|-----------|-----|
| | | | | 23 017 | 23 095 | 23 173 | |
| | | | | 699.7 MHz | 707.5 MHz | 715.3 MHz | |
| 1.4 MHz | QPSK | 1 | 0 | 15.52 | 15.23 | 15.17 | 0 |
| | | 1 | 3 | 15.34 | 15.07 | 15.02 | 0 |
| | | 1 | 5 | 15.43 | 15.22 | 15.15 | 0 |
| | | 3 | 0 | 15.44 | 15.18 | 15.05 | 0 |
| | | 3 | 1 | 15.38 | 15.22 | 15.07 | 0 |
| | | 3 | 3 | 15.34 | 15.15 | 15.12 | 0 |
| | | 6 | 0 | 15.40 | 15.21 | 15.04 | 0 |
| | 16QAM | 1 | 0 | 15.27 | 15.24 | 15.15 | 0 |
| | | 1 | 3 | 15.42 | 15.15 | 15.27 | 0 |
| | | 1 | 5 | 15.30 | 15.29 | 15.11 | 0 |
| | | 3 | 0 | 15.35 | 15.23 | 15.39 | 0 |
| | | 3 | 1 | 15.32 | 15.25 | 15.26 | 0 |
| | | 3 | 3 | 15.39 | 15.22 | 15.19 | 0 |
| | | 6 | 0 | 15.40 | 15.14 | 15.06 | 0 |
| | 64QAM | 1 | 0 | 15.47 | 15.28 | 15.39 | 0 |
| | | 1 | 3 | 15.30 | 15.34 | 15.18 | 0 |
| | | 1 | 5 | 15.54 | 15.36 | 15.26 | 0 |
| | | 3 | 0 | 15.39 | 15.20 | 15.17 | 0 |
| | | 3 | 1 | 15.32 | 15.23 | 15.24 | 0 |
| | | 3 | 3 | 15.34 | 15.23 | 15.18 | 0 |
| | | 6 | 0 | 15.43 | 15.27 | 15.10 | 0 |
| | 256QAM | 1 | 0 | 15.30 | 15.36 | 15.30 | 0 |
| | | 1 | 3 | 15.32 | 15.30 | 15.19 | 0 |
| | | 1 | 5 | 15.55 | 15.38 | 15.16 | 0 |
| | | 3 | 0 | 15.40 | 15.17 | 15.12 | 0 |
| | | 3 | 1 | 15.43 | 15.26 | 15.07 | 0 |
| | | 3 | 3 | 15.37 | 15.28 | 15.30 | 0 |
| | | 6 | 0 | 15.38 | 15.32 | 15.13 | 0 |

10.7.5 LTE Band 13

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | MPR |
|------------|------------|---------|-----------|-----------------------------|---|-----|
| | | | | 23 230 | | |
| | | | | 782.0 MHz | | |
| 10 MHz | QPSK | 1 | 0 | 15.25 | 0 | |
| | | 1 | 25 | 15.11 | 0 | |
| | | 1 | 49 | 15.14 | 0 | |
| | | 25 | 0 | 15.24 | 0 | |
| | | 25 | 12 | 15.21 | 0 | |
| | | 25 | 25 | 15.17 | 0 | |
| | | 50 | 0 | 15.18 | 0 | |
| | 16QAM | 1 | 0 | 15.65 | 0 | |
| | | 1 | 25 | 15.54 | 0 | |
| | | 1 | 49 | 15.53 | 0 | |
| | | 25 | 0 | 15.30 | 0 | |
| | | 25 | 12 | 15.24 | 0 | |
| | | 25 | 25 | 15.18 | 0 | |
| | | 50 | 0 | 15.26 | 0 | |
| | 64QAM | 1 | 0 | 16.44 | 0 | |
| | | 1 | 25 | 16.40 | 0 | |
| | | 1 | 49 | 16.40 | 0 | |
| | | 25 | 0 | 16.29 | 0 | |
| | | 25 | 12 | 16.31 | 0 | |
| | | 25 | 25 | 16.24 | 0 | |
| | | 50 | 0 | 16.27 | 0 | |
| | 256QAM | 1 | 0 | 16.47 | 0 | |
| | | 1 | 25 | 16.17 | 0 | |
| | | 1 | 49 | 16.26 | 0 | |
| | | 25 | 0 | 16.35 | 0 | |
| | | 25 | 12 | 16.31 | 0 | |
| | | 25 | 25 | 16.24 | 0 | |
| | | 50 | 0 | 16.36 | 0 | |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | MPR |
|------------|------------|---------|-----------|-----------------------------|---|-----|
| | | | | 23 230 | | |
| | | | | 782.0 MHz | | |
| 5 MHz | QPSK | 1 | 0 | 15.05 | 0 | |
| | | 1 | 12 | 15.02 | 0 | |
| | | 1 | 24 | 15.11 | 0 | |
| | | 12 | 0 | 15.20 | 0 | |
| | | 12 | 7 | 15.18 | 0 | |
| | | 12 | 13 | 15.18 | 0 | |
| | | 25 | 0 | 15.17 | 0 | |
| | 16QAM | 1 | 0 | 15.53 | 0 | |
| | | 1 | 12 | 15.29 | 0 | |
| | | 1 | 24 | 15.31 | 0 | |
| | | 12 | 0 | 15.18 | 0 | |
| | | 12 | 7 | 15.19 | 0 | |
| | | 12 | 13 | 15.15 | 0 | |
| | | 25 | 0 | 15.22 | 0 | |
| | 64QAM | 1 | 0 | 15.30 | 0 | |
| | | 1 | 12 | 15.32 | 0 | |
| | | 1 | 24 | 15.28 | 0 | |
| | | 12 | 0 | 15.17 | 0 | |
| | | 12 | 7 | 15.17 | 0 | |
| | | 12 | 13 | 15.16 | 0 | |
| | | 25 | 0 | 15.26 | 0 | |
| | 256QAM | 1 | 0 | 15.10 | 0 | |
| | | 1 | 12 | 15.00 | 0 | |
| | | 1 | 24 | 15.23 | 0 | |
| | | 12 | 0 | 15.13 | 0 | |
| | | 12 | 7 | 15.11 | 0 | |
| | | 12 | 13 | 15.06 | 0 | |
| | | 25 | 0 | 15.18 | 0 | |

5 MHz Bandwidths does not support at least three non-overlapping channels in certain channel bandwidths. 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 per KDB 941225 D05 SAR for LTE Devices.

10.7.6 LTE Band 26

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | MPR |
|------------|------------|---------|-----------|-----------------------------|---|-----|
| | | | | 26 865 | | |
| | | | | 831.5 MHz | | |
| 15 MHz | QPSK | 1 | 0 | 16.30 | 0 | |
| | | 1 | 36 | 16.07 | 0 | |
| | | 1 | 74 | 16.20 | 0 | |
| | | 36 | 0 | 16.35 | 0 | |
| | | 36 | 18 | 16.28 | 0 | |
| | | 36 | 37 | 16.23 | 0 | |
| | | 75 | 0 | 16.27 | 0 | |
| | 16QAM | 1 | 0 | 16.45 | 0 | |
| | | 1 | 36 | 16.25 | 0 | |
| | | 1 | 74 | 16.34 | 0 | |
| | | 36 | 0 | 16.28 | 0 | |
| | | 36 | 18 | 16.25 | 0 | |
| | | 36 | 37 | 16.20 | 0 | |
| | | 75 | 0 | 16.24 | 0 | |
| | 64QAM | 1 | 0 | 16.42 | 0 | |
| | | 1 | 36 | 16.33 | 0 | |
| | | 1 | 74 | 16.33 | 0 | |
| | | 36 | 0 | 16.34 | 0 | |
| | | 36 | 18 | 16.25 | 0 | |
| | | 36 | 37 | 16.20 | 0 | |
| | | 75 | 0 | 16.32 | 0 | |
| | 256QAM | 1 | 0 | 16.49 | 0 | |
| | | 1 | 36 | 16.15 | 0 | |
| | | 1 | 74 | 16.33 | 0 | |
| | | 36 | 0 | 16.23 | 0 | |
| | | 36 | 18 | 16.23 | 0 | |
| | | 36 | 37 | 16.19 | 0 | |
| | | 75 | 0 | 16.22 | 0 | |

15 MHz Bandwidths does not support at least three non-overlapping channels in certain channel bandwidths. 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 per KDB 941225 D05 SAR for LTE Devices.

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | | MPR |
|------------|------------|---------|-----------|-----------------------------|-----------|-----------|-----|
| | | | | 26 740 | 26 865 | 26 990 | |
| | | | | 819.0 MHz | 831.5 MHz | 844.0 MHz | |
| 10 MHz | QPSK | 1 | 0 | 16.25 | 16.26 | 16.21 | 0 |
| | | 1 | 25 | 16.09 | 16.09 | 16.03 | 0 |
| | | 1 | 49 | 16.08 | 16.11 | 16.04 | 0 |
| | | 25 | 0 | 16.26 | 16.27 | 16.23 | 0 |
| | | 25 | 12 | 16.19 | 16.31 | 16.23 | 0 |
| | | 25 | 25 | 16.19 | 16.26 | 16.14 | 0 |
| | | 50 | 0 | 16.31 | 16.28 | 16.21 | 0 |
| | 16QAM | 1 | 0 | 16.61 | 16.58 | 16.33 | 0 |
| | | 1 | 25 | 16.29 | 16.23 | 16.13 | 0 |
| | | 1 | 49 | 16.35 | 16.44 | 16.39 | 0 |
| | | 25 | 0 | 16.30 | 16.33 | 16.17 | 0 |
| | | 25 | 12 | 16.28 | 16.29 | 16.20 | 0 |
| | | 25 | 25 | 16.26 | 16.25 | 16.20 | 0 |
| | | 50 | 0 | 16.24 | 16.32 | 16.17 | 0 |
| | 64QAM | 1 | 0 | 16.56 | 16.41 | 16.25 | 0 |
| | | 1 | 25 | 16.18 | 16.44 | 16.12 | 0 |
| | | 1 | 49 | 16.42 | 16.29 | 16.25 | 0 |
| | | 25 | 0 | 16.24 | 16.29 | 16.17 | 0 |
| | | 25 | 12 | 16.20 | 16.26 | 16.16 | 0 |
| | | 25 | 25 | 16.21 | 16.23 | 16.16 | 0 |
| | | 50 | 0 | 16.33 | 16.24 | 16.17 | 0 |
| | 256QAM | 1 | 0 | 16.43 | 16.36 | 16.25 | 0 |
| | | 1 | 25 | 16.32 | 16.38 | 16.14 | 0 |
| | | 1 | 49 | 16.40 | 16.26 | 16.21 | 0 |
| | | 25 | 0 | 16.27 | 16.36 | 16.21 | 0 |
| | | 25 | 12 | 16.32 | 16.27 | 16.15 | 0 |
| | | 25 | 25 | 16.21 | 16.23 | 16.15 | 0 |
| | | 50 | 0 | 16.23 | 16.29 | 16.14 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | | MPR |
|------------|------------|---------|-----------|-----------------------------|-----------|-----------|-----|
| | | | | 26 715 | 26 865 | 27 015 | |
| | | | | 816.5 MHz | 831.5 MHz | 846.5 MHz | |
| 5 MHz | QPSK | 1 | 0 | 16.13 | 16.14 | 16.08 | 0 |
| | | 1 | 12 | 16.16 | 16.24 | 16.06 | 0 |
| | | 1 | 24 | 16.13 | 16.19 | 16.09 | 0 |
| | | 12 | 0 | 16.22 | 16.23 | 16.12 | 0 |
| | | 12 | 7 | 16.22 | 16.24 | 16.16 | 0 |
| | | 12 | 13 | 16.19 | 16.20 | 16.16 | 0 |
| | | 25 | 0 | 16.22 | 16.31 | 16.19 | 0 |
| | 16QAM | 1 | 0 | 16.56 | 16.42 | 16.36 | 0 |
| | | 1 | 12 | 16.18 | 16.15 | 16.37 | 0 |
| | | 1 | 24 | 16.62 | 16.30 | 16.30 | 0 |
| | | 12 | 0 | 16.30 | 16.21 | 16.18 | 0 |
| | | 12 | 7 | 16.27 | 16.25 | 16.10 | 0 |
| | | 12 | 13 | 16.21 | 16.31 | 16.08 | 0 |
| | | 25 | 0 | 16.17 | 16.28 | 16.14 | 0 |
| | 64QAM | 1 | 0 | 16.15 | 16.50 | 16.13 | 0 |
| | | 1 | 12 | 16.47 | 16.31 | 16.24 | 0 |
| | | 1 | 24 | 16.31 | 16.24 | 16.12 | 0 |
| | | 12 | 0 | 16.26 | 16.17 | 16.13 | 0 |
| | | 12 | 7 | 16.23 | 16.23 | 16.13 | 0 |
| | | 12 | 13 | 16.16 | 16.25 | 16.06 | 0 |
| | | 25 | 0 | 16.26 | 16.25 | 16.09 | 0 |
| | 256QAM | 1 | 0 | 16.16 | 16.27 | 16.17 | 0 |
| | | 1 | 12 | 16.16 | 16.21 | 16.05 | 0 |
| | | 1 | 24 | 16.26 | 16.25 | 16.11 | 0 |
| | | 12 | 0 | 16.22 | 16.22 | 16.03 | 0 |
| | | 12 | 7 | 16.18 | 16.19 | 16.13 | 0 |
| | | 12 | 13 | 16.17 | 16.17 | 16.02 | 0 |
| | | 25 | 0 | 16.16 | 16.24 | 16.10 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | | MPR |
|------------|------------|---------|-----------|-----------------------------|-----------|-----------|-----|
| | | | | 26 705 | 26 865 | 27 025 | |
| | | | | 815.5 MHz | 831.5 MHz | 847.5 MHz | |
| 3 MHz | QPSK | 1 | 0 | 16.12 | 16.09 | 16.02 | 0 |
| | | 1 | 8 | 16.12 | 16.03 | 16.00 | 0 |
| | | 1 | 14 | 16.02 | 16.13 | 16.00 | 0 |
| | | 8 | 0 | 16.18 | 16.27 | 16.12 | 0 |
| | | 8 | 4 | 16.18 | 16.22 | 16.01 | 0 |
| | | 8 | 7 | 16.22 | 16.27 | 16.08 | 0 |
| | | 15 | 0 | 16.20 | 16.23 | 16.10 | 0 |
| | 16QAM | 1 | 0 | 16.50 | 16.52 | 16.31 | 0 |
| | | 1 | 8 | 16.33 | 16.54 | 16.30 | 0 |
| | | 1 | 14 | 16.38 | 16.42 | 16.27 | 0 |
| | | 8 | 0 | 16.27 | 16.26 | 16.13 | 0 |
| | | 8 | 4 | 16.22 | 16.26 | 16.15 | 0 |
| | | 8 | 7 | 16.30 | 16.20 | 16.20 | 0 |
| | | 15 | 0 | 16.23 | 16.19 | 16.08 | 0 |
| | 64QAM | 1 | 0 | 16.36 | 16.22 | 16.19 | 0 |
| | | 1 | 8 | 16.07 | 16.35 | 16.20 | 0 |
| | | 1 | 14 | 16.30 | 16.39 | 16.27 | 0 |
| | | 8 | 0 | 16.24 | 16.29 | 16.11 | 0 |
| | | 8 | 4 | 16.13 | 16.22 | 16.13 | 0 |
| | | 8 | 7 | 16.23 | 16.19 | 16.05 | 0 |
| | | 15 | 0 | 16.21 | 16.18 | 16.03 | 0 |
| | 256QAM | 1 | 0 | 16.35 | 16.36 | 16.06 | 0 |
| | | 1 | 8 | 16.24 | 16.08 | 16.23 | 0 |
| | | 1 | 14 | 16.12 | 16.15 | 16.26 | 0 |
| | | 8 | 0 | 16.24 | 16.20 | 16.06 | 0 |
| | | 8 | 4 | 16.18 | 16.18 | 16.04 | 0 |
| | | 8 | 7 | 16.12 | 16.10 | 16.15 | 0 |
| | | 15 | 0 | 16.20 | 16.18 | 16.05 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | | MPR |
|------------|------------|---------|-----------|-----------------------------|-----------|-----------|-----|
| | | | | 26 697 | 26 865 | 27 033 | |
| | | | | 814.7 MHz | 831.5 MHz | 848.3 MHz | |
| 1.4 MHz | QPSK | 1 | 0 | 16.14 | 16.14 | 16.04 | 0 |
| | | 1 | 3 | 16.08 | 16.02 | 16.02 | 0 |
| | | 1 | 5 | 16.13 | 16.17 | 16.03 | 0 |
| | | 3 | 0 | 16.13 | 16.20 | 16.08 | 0 |
| | | 3 | 1 | 16.04 | 16.21 | 16.03 | 0 |
| | | 3 | 3 | 16.12 | 16.19 | 16.02 | 0 |
| | | 6 | 0 | 16.20 | 16.20 | 16.01 | 0 |
| | 16QAM | 1 | 0 | 16.38 | 16.35 | 16.20 | 0 |
| | | 1 | 3 | 16.35 | 16.30 | 16.02 | 0 |
| | | 1 | 5 | 16.44 | 16.27 | 16.20 | 0 |
| | | 3 | 0 | 16.12 | 16.24 | 16.03 | 0 |
| | | 3 | 1 | 16.29 | 16.21 | 16.17 | 0 |
| | | 3 | 3 | 16.21 | 16.14 | 16.12 | 0 |
| | | 6 | 0 | 16.16 | 16.33 | 16.08 | 0 |
| | 64QAM | 1 | 0 | 16.33 | 16.30 | 16.17 | 0 |
| | | 1 | 3 | 16.21 | 16.07 | 16.11 | 0 |
| | | 1 | 5 | 16.42 | 16.29 | 16.17 | 0 |
| | | 3 | 0 | 16.26 | 16.24 | 16.14 | 0 |
| | | 3 | 1 | 16.34 | 16.28 | 16.12 | 0 |
| | | 3 | 3 | 16.21 | 16.31 | 16.08 | 0 |
| | | 6 | 0 | 16.18 | 16.23 | 16.02 | 0 |
| | 256QAM | 1 | 0 | 16.33 | 16.41 | 16.00 | 0 |
| | | 1 | 3 | 16.31 | 16.14 | 16.35 | 0 |
| | | 1 | 5 | 16.44 | 16.27 | 16.03 | 0 |
| | | 3 | 0 | 16.19 | 16.21 | 16.11 | 0 |
| | | 3 | 1 | 16.21 | 16.09 | 16.09 | 0 |
| | | 3 | 3 | 16.30 | 16.32 | 16.10 | 0 |
| | | 6 | 0 | 16.19 | 16.18 | 16.09 | 0 |

10.7.7 LTE Band 41(Power Class 2)

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | | | | MPR |
|------------|------------|---------|-----------|-----------------------------|------------|------------|--------------|------------|-----|
| | | | | 39 750 | 40 185 | 40 620 | 41 055 | 41 490 | |
| | | | | 2506.0 MHz | 2549.5 MHz | 2593.0 MHz | 2636.5 MHz | 2680.0 MHz | |
| 20 MHz | QPSK | 1 | 0 | 11.51 | 11.49 | 11.47 | 11.93 | 11.61 | 0 |
| | | 1 | 49 | 11.27 | 11.26 | 11.26 | 11.52 | 11.33 | 0 |
| | | 1 | 99 | 11.50 | 11.44 | 11.42 | 11.73 | 11.53 | 0 |
| | | 50 | 0 | 11.72 | 11.71 | 11.60 | 11.92 | 11.74 | 0 |
| | | 50 | 24 | 11.68 | 11.66 | 11.55 | 11.90 | 11.72 | 0 |
| | | 50 | 50 | 11.70 | 11.61 | 11.55 | 11.88 | 11.69 | 0 |
| | | 100 | 0 | 11.66 | 11.64 | 11.54 | 11.89 | 11.71 | 0 |
| | 16QAM | 1 | 0 | 11.32 | 11.57 | 11.34 | 11.94 | 11.68 | 0 |
| | | 1 | 49 | 11.50 | 11.63 | 11.46 | 11.99 | 11.87 | 0 |
| | | 1 | 99 | 11.39 | 11.37 | 11.34 | 11.85 | 11.67 | 0 |
| | | 50 | 0 | 11.57 | 11.67 | 11.50 | 11.88 | 11.70 | 0 |
| | | 50 | 24 | 11.58 | 11.62 | 11.49 | 11.85 | 11.67 | 0 |
| | | 50 | 50 | 11.62 | 11.57 | 11.50 | 11.83 | 11.65 | 0 |
| | | 100 | 0 | 11.59 | 11.63 | 11.49 | 11.87 | 11.67 | 0 |
| | 64QAM | 1 | 0 | 11.70 | 11.81 | 11.75 | 11.81 | 11.82 | 0 |
| | | 1 | 49 | 11.85 | 11.99 | 11.81 | 11.92 | 11.83 | 0 |
| | | 1 | 99 | 11.81 | 11.78 | 11.76 | 11.81 | 11.91 | 0 |
| | | 50 | 0 | 11.57 | 11.68 | 11.49 | 11.90 | 11.68 | 0 |
| | | 50 | 24 | 11.58 | 11.63 | 11.48 | 11.88 | 11.65 | 0 |
| | | 50 | 50 | 11.61 | 11.58 | 11.50 | 11.85 | 11.63 | 0 |
| | | 100 | 0 | 11.56 | 11.61 | 11.47 | 11.84 | 11.64 | 0 |
| | 256QAM | 1 | 0 | 11.36 | 11.63 | 11.39 | 11.61 | 11.34 | 0 |
| | | 1 | 49 | 11.44 | 11.61 | 11.42 | 11.66 | 11.34 | 0 |
| | | 1 | 99 | 11.44 | 11.43 | 11.39 | 11.51 | 11.26 | 0 |
| | | 50 | 0 | 11.61 | 11.74 | 11.55 | 11.93 | 11.73 | 0 |
| | | 50 | 24 | 11.63 | 11.68 | 11.56 | 11.91 | 11.71 | 0 |
| | | 50 | 50 | 11.65 | 11.63 | 11.56 | 11.90 | 11.69 | 0 |
| | | 100 | 0 | 11.54 | 11.59 | 11.46 | 11.84 | 11.65 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | | | | MPR |
|------------|------------|---------|-----------|-----------------------------|------------|------------|------------|------------|-----|
| | | | | 39 750 | 40 185 | 40 620 | 41 055 | 41 490 | |
| | | | | 2506.0 MHz | 2549.5 MHz | 2593.0 MHz | 2636.5 MHz | 2680.0 MHz | |
| 15 MHz | QPSK | 1 | 0 | 11.40 | 11.59 | 11.48 | 11.82 | 11.56 | 0 |
| | | 1 | 36 | 11.36 | 11.46 | 11.30 | 11.70 | 11.49 | 0 |
| | | 1 | 74 | 11.48 | 11.46 | 11.40 | 11.74 | 11.54 | 0 |
| | | 36 | 0 | 11.57 | 11.65 | 11.48 | 11.86 | 11.68 | 0 |
| | | 36 | 18 | 11.60 | 11.61 | 11.49 | 11.87 | 11.67 | 0 |
| | | 36 | 37 | 11.61 | 11.57 | 11.48 | 11.85 | 11.65 | 0 |
| | | 75 | 0 | 11.57 | 11.60 | 11.47 | 11.85 | 11.66 | 0 |
| | 16QAM | 1 | 0 | 11.51 | 11.83 | 11.50 | 11.93 | 11.63 | 0 |
| | | 1 | 36 | 11.49 | 11.39 | 11.44 | 11.84 | 11.61 | 0 |
| | | 1 | 74 | 11.61 | 11.40 | 11.54 | 11.88 | 11.69 | 0 |
| | | 36 | 0 | 11.43 | 11.55 | 11.38 | 11.79 | 11.58 | 0 |
| | | 36 | 18 | 11.47 | 11.53 | 11.39 | 11.76 | 11.55 | 0 |
| | | 36 | 37 | 11.47 | 11.48 | 11.38 | 11.75 | 11.55 | 0 |
| | | 75 | 0 | 11.49 | 11.55 | 11.43 | 11.79 | 11.59 | 0 |
| | 64QAM | 1 | 0 | 11.67 | 11.92 | 11.73 | 11.97 | 11.72 | 0 |
| | | 1 | 36 | 11.73 | 11.81 | 11.68 | 11.90 | 11.86 | 0 |
| | | 1 | 74 | 11.85 | 11.81 | 11.80 | 11.94 | 11.94 | 0 |
| | | 36 | 0 | 11.49 | 11.61 | 11.41 | 11.83 | 11.62 | 0 |
| | | 36 | 18 | 11.52 | 11.59 | 11.42 | 11.82 | 11.60 | 0 |
| | | 36 | 37 | 11.52 | 11.55 | 11.43 | 11.79 | 11.58 | 0 |
| | | 75 | 0 | 11.49 | 11.53 | 11.42 | 11.81 | 11.60 | 0 |
| | 256QAM | 1 | 0 | 11.10 | 11.58 | 11.10 | 11.82 | 11.33 | 0 |
| | | 1 | 36 | 11.08 | 11.46 | 11.01 | 11.44 | 11.22 | 0 |
| | | 1 | 74 | 11.19 | 11.46 | 11.11 | 11.47 | 11.25 | 0 |
| | | 36 | 0 | 11.47 | 11.59 | 11.41 | 11.81 | 11.60 | 0 |
| | | 36 | 18 | 11.49 | 11.57 | 11.43 | 11.80 | 11.60 | 0 |
| | | 36 | 37 | 11.51 | 11.52 | 11.44 | 11.79 | 11.58 | 0 |
| | | 75 | 0 | 11.48 | 11.55 | 11.41 | 11.80 | 11.59 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | | | | MPR |
|------------|------------|---------|-----------|-----------------------------|------------|------------|------------|------------|-----|
| | | | | 39750 | 40185 | 40620 | 41055 | 41490 | |
| | | | | 2506.0 MHz | 2549.5 MHz | 2593.0 MHz | 2636.5 MHz | 2680.0 MHz | |
| 10 MHz | QPSK | 1 | 0 | 11.42 | 11.58 | 11.47 | 11.80 | 11.63 | 0 |
| | | 1 | 25 | 11.39 | 11.49 | 11.34 | 11.73 | 11.51 | 0 |
| | | 1 | 49 | 11.47 | 11.48 | 11.40 | 11.76 | 11.55 | 0 |
| | | 25 | 0 | 11.47 | 11.59 | 11.42 | 11.82 | 11.60 | 0 |
| | | 25 | 12 | 11.46 | 11.56 | 11.41 | 11.78 | 11.58 | 0 |
| | | 25 | 25 | 11.48 | 11.53 | 11.41 | 11.78 | 11.58 | 0 |
| | | 50 | 0 | 11.67 | 11.66 | 11.55 | 11.90 | 11.71 | 0 |
| | 16QAM | 1 | 0 | 11.53 | 11.74 | 11.52 | 11.93 | 11.71 | 0 |
| | | 1 | 25 | 11.49 | 11.64 | 11.46 | 11.85 | 11.64 | 0 |
| | | 1 | 49 | 11.57 | 11.63 | 11.51 | 11.87 | 11.66 | 0 |
| | | 25 | 0 | 11.41 | 11.56 | 11.38 | 11.80 | 11.57 | 0 |
| | | 25 | 12 | 11.41 | 11.53 | 11.36 | 11.77 | 11.55 | 0 |
| | | 25 | 25 | 11.42 | 11.50 | 11.37 | 11.75 | 11.54 | 0 |
| | | 50 | 0 | 11.60 | 11.59 | 11.51 | 11.89 | 11.64 | 0 |
| | 64QAM | 1 | 0 | 11.79 | 11.99 | 11.58 | 11.98 | 11.97 | 0 |
| | | 1 | 25 | 11.75 | 11.89 | 11.72 | 11.89 | 11.90 | 0 |
| | | 1 | 49 | 11.79 | 11.85 | 11.74 | 11.91 | 11.89 | 0 |
| | | 25 | 0 | 11.36 | 11.52 | 11.32 | 11.73 | 11.53 | 0 |
| | | 25 | 12 | 11.36 | 11.50 | 11.31 | 11.72 | 11.51 | 0 |
| | | 25 | 25 | 11.36 | 11.47 | 11.32 | 11.71 | 11.50 | 0 |
| | | 50 | 0 | 11.58 | 11.63 | 11.48 | 11.86 | 11.68 | 0 |
| | 256QAM | 1 | 0 | 11.12 | 11.31 | 11.10 | 11.54 | 11.30 | 0 |
| | | 1 | 25 | 11.10 | 11.22 | 11.06 | 11.46 | 11.24 | 0 |
| | | 1 | 49 | 11.19 | 11.24 | 11.14 | 11.50 | 11.29 | 0 |
| | | 25 | 0 | 11.42 | 11.58 | 11.39 | 11.81 | 11.58 | 0 |
| | | 25 | 12 | 11.41 | 11.55 | 11.38 | 11.79 | 11.56 | 0 |
| | | 25 | 25 | 11.43 | 11.53 | 11.38 | 11.78 | 11.55 | 0 |
| | | 50 | 0 | 11.61 | 11.66 | 11.53 | 11.91 | 11.71 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | | | | MPR |
|------------|------------|---------|-----------|-----------------------------|------------|------------|------------|------------|-----|
| | | | | 39 750 | 40 185 | 40 620 | 41 055 | 41 490 | |
| | | | | 2506.0 MHz | 2549.5 MHz | 2593.0 MHz | 2636.5 MHz | 2680.0 MHz | |
| 5 MHz | QPSK | 1 | 0 | 11.39 | 11.48 | 11.53 | 11.74 | 11.66 | 0 |
| | | 1 | 12 | 11.41 | 11.52 | 11.40 | 11.80 | 11.62 | 0 |
| | | 1 | 24 | 11.42 | 11.47 | 11.36 | 11.73 | 11.52 | 0 |
| | | 12 | 0 | 11.49 | 11.56 | 11.42 | 11.81 | 11.61 | 0 |
| | | 12 | 7 | 11.48 | 11.56 | 11.42 | 11.80 | 11.59 | 0 |
| | | 12 | 13 | 11.50 | 11.54 | 11.42 | 11.78 | 11.59 | 0 |
| | | 25 | 0 | 11.44 | 11.52 | 11.38 | 11.77 | 11.57 | 0 |
| | 16QAM | 1 | 0 | 11.31 | 11.70 | 11.36 | 11.93 | 11.71 | 0 |
| | | 1 | 12 | 11.30 | 11.66 | 11.25 | 11.83 | 11.63 | 0 |
| | | 1 | 24 | 11.35 | 11.67 | 11.31 | 11.92 | 11.71 | 0 |
| | | 12 | 0 | 11.39 | 11.53 | 11.41 | 11.79 | 11.51 | 0 |
| | | 12 | 7 | 11.39 | 11.53 | 11.42 | 11.80 | 11.52 | 0 |
| | | 12 | 13 | 11.39 | 11.50 | 11.40 | 11.77 | 11.50 | 0 |
| | | 25 | 0 | 11.39 | 11.50 | 11.35 | 11.74 | 11.53 | 0 |
| | 64QAM | 1 | 0 | 11.71 | 11.73 | 11.57 | 11.95 | 11.92 | 0 |
| | | 1 | 12 | 11.69 | 11.66 | 11.49 | 11.84 | 11.62 | 0 |
| | | 1 | 24 | 11.74 | 11.75 | 11.61 | 11.97 | 11.95 | 0 |
| | | 12 | 0 | 11.28 | 11.44 | 11.41 | 11.79 | 11.58 | 0 |
| | | 12 | 7 | 11.31 | 11.44 | 11.40 | 11.78 | 11.58 | 0 |
| | | 12 | 13 | 11.29 | 11.42 | 11.40 | 11.78 | 11.57 | 0 |
| | | 25 | 0 | 11.34 | 11.47 | 11.27 | 11.70 | 11.47 | 0 |
| | 256QAM | 1 | 0 | 11.33 | 11.13 | 11.05 | 11.65 | 11.43 | 0 |
| | | 1 | 12 | 10.92 | 10.62 | 10.66 | 11.14 | 11.05 | 0 |
| | | 1 | 24 | 11.36 | 11.08 | 11.09 | 11.44 | 11.26 | 0 |
| | | 12 | 0 | 11.44 | 11.64 | 11.39 | 11.82 | 11.57 | 0 |
| | | 12 | 7 | 11.44 | 11.64 | 11.43 | 11.83 | 11.59 | 0 |
| | | 12 | 13 | 11.42 | 11.61 | 11.40 | 11.81 | 11.56 | 0 |
| | | 25 | 0 | 11.36 | 11.52 | 11.35 | 11.78 | 11.55 | 0 |

10.7.8 LTE Band 41(Power Class 3)

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | | | | MPR |
|------------|------------|---------|-----------|-----------------------------|------------|------------|--------------|------------|-----|
| | | | | 39 750 | 40 185 | 40 620 | 41 055 | 41 490 | |
| | | | | 2506.0 MHz | 2549.5 MHz | 2593.0 MHz | 2636.5 MHz | 2680.0 MHz | |
| 20 MHz | QPSK | 1 | 0 | 11.50 | 11.61 | 11.59 | 11.94 | 11.63 | 0 |
| | | 1 | 49 | 11.40 | 11.57 | 11.43 | 11.81 | 11.60 | 0 |
| | | 1 | 99 | 11.48 | 11.37 | 11.35 | 11.66 | 11.47 | 0 |
| | | 50 | 0 | 11.70 | 11.72 | 11.55 | 11.95 | 11.76 | 0 |
| | | 50 | 24 | 11.69 | 11.66 | 11.54 | 11.91 | 11.75 | 0 |
| | | 50 | 50 | 11.65 | 11.61 | 11.54 | 11.89 | 11.73 | 0 |
| | | 100 | 0 | 11.67 | 11.64 | 11.53 | 11.90 | 11.72 | 0 |
| | 16QAM | 1 | 0 | 11.39 | 11.48 | 11.31 | 11.62 | 11.47 | 0 |
| | | 1 | 49 | 11.42 | 11.28 | 11.05 | 11.45 | 11.40 | 0 |
| | | 1 | 99 | 11.43 | 11.39 | 11.29 | 11.58 | 11.44 | 0 |
| | | 50 | 0 | 11.58 | 11.67 | 11.47 | 11.85 | 11.68 | 0 |
| | | 50 | 24 | 11.60 | 11.61 | 11.45 | 11.85 | 11.67 | 0 |
| | | 50 | 50 | 11.62 | 11.56 | 11.47 | 11.80 | 11.64 | 0 |
| | | 100 | 0 | 11.58 | 11.63 | 11.50 | 11.86 | 11.68 | 0 |
| | 64QAM | 1 | 0 | 11.20 | 11.63 | 11.46 | 11.77 | 11.66 | 0 |
| | | 1 | 49 | 11.11 | 11.51 | 11.35 | 11.74 | 11.60 | 0 |
| | | 1 | 99 | 11.15 | 11.43 | 11.36 | 11.65 | 11.61 | 0 |
| | | 50 | 0 | 11.55 | 11.67 | 11.49 | 11.88 | 11.71 | 0 |
| | | 50 | 24 | 11.58 | 11.64 | 11.49 | 11.87 | 11.69 | 0 |
| | | 50 | 50 | 11.59 | 11.57 | 11.48 | 11.84 | 11.66 | 0 |
| | | 100 | 0 | 11.54 | 11.57 | 11.43 | 11.82 | 11.63 | 0 |
| | 256QAM | 1 | 0 | 11.18 | 11.51 | 11.24 | 11.68 | 11.47 | 0 |
| | | 1 | 49 | 11.23 | 11.34 | 11.15 | 11.68 | 11.43 | 0 |
| | | 1 | 99 | 11.23 | 11.32 | 11.18 | 11.53 | 11.40 | 0 |
| | | 50 | 0 | 11.61 | 11.72 | 11.52 | 11.93 | 11.75 | 0 |
| | | 50 | 24 | 11.62 | 11.66 | 11.52 | 11.90 | 11.72 | 0 |
| | | 50 | 50 | 11.63 | 11.60 | 11.53 | 11.87 | 11.69 | 0 |
| | | 100 | 0 | 11.55 | 11.59 | 11.46 | 11.85 | 11.64 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | | | | MPR |
|------------|------------|---------|-----------|-----------------------------|------------|------------|------------|------------|-----|
| | | | | 39 750 | 40 185 | 40 620 | 41 055 | 41 490 | |
| | | | | 2506.0 MHz | 2549.5 MHz | 2593.0 MHz | 2636.5 MHz | 2680.0 MHz | |
| 15 MHz | QPSK | 1 | 0 | 11.35 | 11.51 | 11.35 | 11.62 | 11.52 | 0 |
| | | 1 | 36 | 11.35 | 11.42 | 11.26 | 11.65 | 11.45 | 0 |
| | | 1 | 74 | 11.48 | 11.44 | 11.35 | 11.72 | 11.52 | 0 |
| | | 36 | 0 | 11.54 | 11.63 | 11.47 | 11.83 | 11.66 | 0 |
| | | 36 | 18 | 11.55 | 11.58 | 11.46 | 11.83 | 11.63 | 0 |
| | | 36 | 37 | 11.57 | 11.55 | 11.45 | 11.82 | 11.61 | 0 |
| | | 75 | 0 | 11.64 | 11.63 | 11.50 | 11.87 | 11.69 | 0 |
| | 16QAM | 1 | 0 | 11.16 | 11.45 | 11.23 | 11.65 | 11.42 | 0 |
| | | 1 | 36 | 11.17 | 11.32 | 11.14 | 11.52 | 11.32 | 0 |
| | | 1 | 74 | 11.24 | 11.30 | 11.25 | 11.53 | 11.36 | 0 |
| | | 36 | 0 | 11.41 | 11.54 | 11.36 | 11.76 | 11.57 | 0 |
| | | 36 | 18 | 11.43 | 11.51 | 11.36 | 11.73 | 11.56 | 0 |
| | | 36 | 37 | 11.42 | 11.46 | 11.35 | 11.72 | 11.54 | 0 |
| | | 75 | 0 | 11.53 | 11.56 | 11.43 | 11.80 | 11.61 | 0 |
| | 64QAM | 1 | 0 | 11.36 | 11.53 | 11.35 | 11.77 | 11.60 | 0 |
| | | 1 | 36 | 11.27 | 11.41 | 11.31 | 11.69 | 11.50 | 0 |
| | | 1 | 74 | 11.50 | 11.41 | 11.43 | 11.71 | 11.59 | 0 |
| | | 36 | 0 | 11.40 | 11.55 | 11.37 | 11.77 | 11.55 | 0 |
| | | 36 | 18 | 11.42 | 11.53 | 11.35 | 11.77 | 11.56 | 0 |
| | | 36 | 37 | 11.44 | 11.47 | 11.36 | 11.75 | 11.54 | 0 |
| | | 75 | 0 | 11.50 | 11.55 | 11.41 | 11.80 | 11.61 | 0 |
| | 256QAM | 1 | 0 | 11.19 | 11.36 | 11.25 | 11.50 | 11.37 | 0 |
| | | 1 | 36 | 11.20 | 11.26 | 11.15 | 11.44 | 11.27 | 0 |
| | | 1 | 74 | 11.22 | 11.30 | 11.24 | 11.53 | 11.36 | 0 |
| | | 36 | 0 | 11.43 | 11.57 | 11.37 | 11.79 | 11.59 | 0 |
| | | 36 | 18 | 11.46 | 11.53 | 11.38 | 11.77 | 11.58 | 0 |
| | | 36 | 37 | 11.47 | 11.50 | 11.38 | 11.76 | 11.57 | 0 |
| | | 75 | 0 | 11.53 | 11.56 | 11.43 | 11.81 | 11.63 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | | | | MPR |
|------------|------------|---------|-----------|-----------------------------|------------|------------|------------|------------|-----|
| | | | | 39 750 | 40 185 | 40 620 | 41 055 | 41 490 | |
| | | | | 2506.0 MHz | 2549.5 MHz | 2593.0 MHz | 2636.5 MHz | 2680.0 MHz | |
| 10 MHz | QPSK | 1 | 0 | 11.43 | 11.57 | 11.37 | 11.63 | 11.56 | 0 |
| | | 1 | 25 | 11.33 | 11.40 | 11.26 | 11.65 | 11.43 | 0 |
| | | 1 | 49 | 11.42 | 11.42 | 11.33 | 11.68 | 11.48 | 0 |
| | | 25 | 0 | 11.61 | 11.65 | 11.49 | 11.88 | 11.69 | 0 |
| | | 25 | 12 | 11.63 | 11.63 | 11.50 | 11.86 | 11.70 | 0 |
| | | 25 | 25 | 11.63 | 11.59 | 11.48 | 11.85 | 11.67 | 0 |
| | | 50 | 0 | 11.70 | 11.67 | 11.55 | 11.92 | 11.73 | 0 |
| | 16QAM | 1 | 0 | 11.24 | 11.45 | 11.24 | 11.55 | 11.49 | 0 |
| | | 1 | 25 | 11.26 | 11.28 | 11.20 | 11.48 | 11.36 | 0 |
| | | 1 | 49 | 11.37 | 11.28 | 11.27 | 11.48 | 11.46 | 0 |
| | | 25 | 0 | 11.51 | 11.58 | 11.40 | 11.81 | 11.61 | 0 |
| | | 25 | 12 | 11.51 | 11.54 | 11.40 | 11.78 | 11.59 | 0 |
| | | 25 | 25 | 11.51 | 11.52 | 11.39 | 11.79 | 11.58 | 0 |
| | | 50 | 0 | 11.58 | 11.61 | 11.46 | 11.85 | 11.67 | 0 |
| | 64QAM | 1 | 0 | 11.41 | 11.71 | 11.38 | 11.93 | 11.56 | 0 |
| | | 1 | 25 | 11.38 | 11.59 | 11.28 | 11.87 | 11.47 | 0 |
| | | 1 | 49 | 11.47 | 11.60 | 11.38 | 11.91 | 11.58 | 0 |
| | | 25 | 0 | 11.47 | 11.58 | 11.40 | 11.78 | 11.59 | 0 |
| | | 25 | 12 | 11.49 | 11.56 | 11.41 | 11.77 | 11.59 | 0 |
| | | 25 | 25 | 11.49 | 11.51 | 11.40 | 11.76 | 11.57 | 0 |
| | | 50 | 0 | 11.58 | 11.63 | 11.50 | 11.87 | 11.66 | 0 |
| | 256QAM | 1 | 0 | 11.08 | 11.35 | 11.13 | 11.59 | 11.42 | 0 |
| | | 1 | 25 | 11.06 | 11.22 | 11.07 | 11.45 | 11.35 | 0 |
| | | 1 | 49 | 11.13 | 11.26 | 11.18 | 11.50 | 11.42 | 0 |
| | | 25 | 0 | 11.53 | 11.62 | 11.45 | 11.85 | 11.65 | 0 |
| | | 25 | 12 | 11.56 | 11.63 | 11.45 | 11.86 | 11.65 | 0 |
| | | 25 | 25 | 11.56 | 11.57 | 11.45 | 11.85 | 11.64 | 0 |
| | | 50 | 0 | 11.61 | 11.65 | 11.51 | 11.90 | 11.71 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power (dBm) | | | | | MPR |
|------------|------------|---------|-----------|-----------------------------|------------|------------|------------|------------|-----|
| | | | | 39 750 | 40 185 | 40 620 | 41 055 | 41 490 | |
| | | | | 2506.0 MHz | 2549.5 MHz | 2593.0 MHz | 2636.5 MHz | 2680.0 MHz | |
| 5 MHz | QPSK | 1 | 0 | 11.44 | 11.46 | 11.28 | 11.71 | 11.51 | 0 |
| | | 1 | 12 | 11.48 | 11.59 | 11.44 | 11.84 | 11.65 | 0 |
| | | 1 | 24 | 11.47 | 11.48 | 11.34 | 11.73 | 11.54 | 0 |
| | | 12 | 0 | 11.46 | 11.53 | 11.36 | 11.77 | 11.58 | 0 |
| | | 12 | 7 | 11.46 | 11.50 | 11.36 | 11.79 | 11.58 | 0 |
| | | 12 | 13 | 11.46 | 11.50 | 11.36 | 11.76 | 11.57 | 0 |
| | | 25 | 0 | 11.62 | 11.59 | 11.48 | 11.86 | 11.70 | 0 |
| | 16QAM | 1 | 0 | 11.43 | 11.35 | 11.22 | 11.67 | 11.45 | 0 |
| | | 1 | 12 | 11.44 | 11.34 | 11.13 | 11.56 | 11.29 | 0 |
| | | 1 | 24 | 11.38 | 11.36 | 11.26 | 11.61 | 11.41 | 0 |
| | | 12 | 0 | 11.30 | 11.43 | 11.28 | 11.66 | 11.47 | 0 |
| | | 12 | 7 | 11.30 | 11.43 | 11.27 | 11.67 | 11.45 | 0 |
| | | 12 | 13 | 11.30 | 11.43 | 11.25 | 11.66 | 11.43 | 0 |
| | | 25 | 0 | 11.53 | 11.52 | 11.41 | 11.79 | 11.57 | 0 |
| | 64QAM | 1 | 0 | 11.41 | 11.47 | 11.27 | 11.75 | 11.55 | 0 |
| | | 1 | 12 | 11.45 | 11.57 | 11.31 | 11.83 | 11.71 | 0 |
| | | 1 | 24 | 11.36 | 11.40 | 11.24 | 11.69 | 11.52 | 0 |
| | | 12 | 0 | 11.29 | 11.43 | 11.25 | 11.66 | 11.46 | 0 |
| | | 12 | 7 | 11.29 | 11.41 | 11.24 | 11.65 | 11.44 | 0 |
| | | 12 | 13 | 11.29 | 11.42 | 11.26 | 11.62 | 11.43 | 0 |
| | | 25 | 0 | 11.47 | 11.49 | 11.35 | 11.78 | 11.58 | 0 |
| | 256QAM | 1 | 0 | 11.17 | 11.23 | 11.07 | 11.51 | 11.31 | 0 |
| | | 1 | 12 | 11.11 | 11.16 | 11.01 | 11.46 | 11.27 | 0 |
| | | 1 | 24 | 11.07 | 11.20 | 11.05 | 11.46 | 11.27 | 0 |
| | | 12 | 0 | 11.35 | 11.47 | 11.29 | 11.70 | 11.52 | 0 |
| | | 12 | 7 | 11.34 | 11.46 | 11.29 | 11.71 | 11.50 | 0 |
| | | 12 | 13 | 11.35 | 11.44 | 11.28 | 11.70 | 11.49 | 0 |
| | | 25 | 0 | 11.52 | 11.58 | 11.44 | 11.83 | 11.63 | 0 |

10.7.9 LTE Band 66

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|--------------|-------------|-----|
| | | | | 132 072 | 132 322 | 132 572 | |
| | | | | 1 720.0 MHz | 1 745.0 MHz | 1 770.0 MHz | |
| 20 MHz | QPSK | 1 | 0 | 11.12 | 11.29 | 11.24 | 0 |
| | | 1 | 49 | 11.10 | 11.31 | 11.16 | 0 |
| | | 1 | 99 | 11.02 | 11.16 | 11.01 | 0 |
| | | 50 | 0 | 11.05 | 11.25 | 11.21 | 0 |
| | | 50 | 24 | 11.10 | 11.21 | 11.12 | 0 |
| | | 50 | 50 | 11.01 | 11.17 | 11.12 | 0 |
| | | 100 | 0 | 11.05 | 11.19 | 11.12 | 0 |
| | 16QAM | 1 | 0 | 11.36 | 11.59 | 11.52 | 0 |
| | | 1 | 49 | 11.30 | 11.42 | 11.64 | 0 |
| | | 1 | 99 | 11.19 | 11.38 | 11.34 | 0 |
| | | 50 | 0 | 11.10 | 11.22 | 11.14 | 0 |
| | | 50 | 24 | 11.02 | 11.21 | 11.09 | 0 |
| | | 50 | 50 | 11.03 | 11.17 | 11.06 | 0 |
| | | 100 | 0 | 11.05 | 11.16 | 11.11 | 0 |
| | 64QAM | 1 | 0 | 11.24 | 11.51 | 11.15 | 0 |
| | | 1 | 49 | 11.19 | 11.44 | 11.28 | 0 |
| | | 1 | 99 | 11.37 | 11.50 | 11.42 | 0 |
| | | 50 | 0 | 11.21 | 11.36 | 11.16 | 0 |
| | | 50 | 24 | 11.22 | 11.40 | 11.26 | 0 |
| | | 50 | 50 | 11.24 | 11.37 | 11.27 | 0 |
| | | 100 | 0 | 11.24 | 11.34 | 11.17 | 0 |
| | 256QAM | 1 | 0 | 11.38 | 11.50 | 11.36 | 0 |
| | | 1 | 49 | 11.21 | 11.35 | 11.24 | 0 |
| | | 1 | 99 | 11.61 | 11.39 | 11.19 | 0 |
| | | 50 | 0 | 11.19 | 11.34 | 11.17 | 0 |
| | | 50 | 24 | 11.16 | 11.24 | 11.17 | 0 |
| | | 50 | 50 | 11.20 | 11.39 | 11.16 | 0 |
| | | 100 | 0 | 11.15 | 11.35 | 11.16 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 132 047 | 132 322 | 132 597 | |
| | | | | 1 717.5 MHz | 1 745.0 MHz | 1 772.5 MHz | |
| 15 MHz | QPSK | 1 | 0 | 11.18 | 11.36 | 11.22 | 0 |
| | | 1 | 36 | 11.05 | 11.22 | 11.09 | 0 |
| | | 1 | 74 | 11.06 | 11.22 | 11.06 | 0 |
| | | 36 | 0 | 11.15 | 11.28 | 11.22 | 0 |
| | | 36 | 18 | 11.11 | 11.26 | 11.17 | 0 |
| | | 36 | 37 | 11.07 | 11.23 | 11.16 | 0 |
| | | 75 | 0 | 11.14 | 11.25 | 11.17 | 0 |
| | 16QAM | 1 | 0 | 11.39 | 11.50 | 11.23 | 0 |
| | | 1 | 36 | 11.28 | 11.17 | 11.10 | 0 |
| | | 1 | 74 | 11.30 | 11.20 | 11.01 | 0 |
| | | 36 | 0 | 11.10 | 11.31 | 11.18 | 0 |
| | | 36 | 18 | 11.06 | 11.27 | 11.14 | 0 |
| | | 36 | 37 | 11.05 | 11.26 | 11.13 | 0 |
| | | 75 | 0 | 11.10 | 11.24 | 11.12 | 0 |
| | 64QAM | 1 | 0 | 11.25 | 11.50 | 11.31 | 0 |
| | | 1 | 36 | 11.22 | 11.32 | 11.13 | 0 |
| | | 1 | 74 | 11.49 | 11.60 | 11.24 | 0 |
| | | 36 | 0 | 11.23 | 11.42 | 11.25 | 0 |
| | | 36 | 18 | 11.19 | 11.35 | 11.21 | 0 |
| | | 36 | 37 | 11.20 | 11.35 | 11.23 | 0 |
| | | 75 | 0 | 11.22 | 11.33 | 11.20 | 0 |
| | 256QAM | 1 | 0 | 11.33 | 11.44 | 11.19 | 0 |
| | | 1 | 36 | 11.10 | 11.16 | 11.10 | 0 |
| | | 1 | 74 | 11.36 | 11.47 | 11.52 | 0 |
| | | 36 | 0 | 11.20 | 11.39 | 11.18 | 0 |
| | | 36 | 18 | 11.29 | 11.44 | 11.21 | 0 |
| | | 36 | 37 | 11.30 | 11.44 | 11.21 | 0 |
| | | 75 | 0 | 11.31 | 11.34 | 11.12 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 132 022 | 132 322 | 132 622 | |
| | | | | 1 715.0 MHz | 1 745.0 MHz | 1 775.0 MHz | |
| 10 MHz | QPSK | 1 | 0 | 11.16 | 11.26 | 11.14 | 0 |
| | | 1 | 25 | 11.03 | 11.15 | 11.01 | 0 |
| | | 1 | 49 | 11.06 | 11.27 | 11.13 | 0 |
| | | 25 | 0 | 11.10 | 11.26 | 11.13 | 0 |
| | | 25 | 12 | 11.07 | 11.21 | 11.10 | 0 |
| | | 25 | 25 | 11.05 | 11.21 | 11.11 | 0 |
| | | 50 | 0 | 11.07 | 11.25 | 11.15 | 0 |
| | 16QAM | 1 | 0 | 11.38 | 11.30 | 11.18 | 0 |
| | | 1 | 25 | 11.33 | 11.19 | 11.05 | 0 |
| | | 1 | 49 | 11.32 | 11.43 | 11.18 | 0 |
| | | 25 | 0 | 11.01 | 11.23 | 11.14 | 0 |
| | | 25 | 12 | 11.00 | 11.28 | 11.10 | 0 |
| | | 25 | 25 | 11.01 | 11.23 | 11.05 | 0 |
| | | 50 | 0 | 11.08 | 11.25 | 11.16 | 0 |
| | 64QAM | 1 | 0 | 11.35 | 11.56 | 11.48 | 0 |
| | | 1 | 25 | 11.18 | 11.43 | 11.37 | 0 |
| | | 1 | 49 | 11.44 | 11.47 | 11.25 | 0 |
| | | 25 | 0 | 11.21 | 11.35 | 11.17 | 0 |
| | | 25 | 12 | 11.16 | 11.32 | 11.09 | 0 |
| | | 25 | 25 | 11.17 | 11.40 | 11.16 | 0 |
| | | 50 | 0 | 11.28 | 11.35 | 11.27 | 0 |
| | 256QAM | 1 | 0 | 11.16 | 11.34 | 11.37 | 0 |
| | | 1 | 25 | 11.39 | 11.14 | 11.22 | 0 |
| | | 1 | 49 | 11.24 | 11.55 | 11.37 | 0 |
| | | 25 | 0 | 11.19 | 11.36 | 11.16 | 0 |
| | | 25 | 12 | 11.22 | 11.36 | 11.20 | 0 |
| | | 25 | 25 | 11.18 | 11.39 | 11.21 | 0 |
| | | 50 | 0 | 11.24 | 11.35 | 11.16 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 131 997 | 132 322 | 132 647 | |
| | | | | 1 712.5 MHz | 1 745.0 MHz | 1 777.5 MHz | |
| 5 MHz | QPSK | 1 | 0 | 11.11 | 11.23 | 11.14 | 0 |
| | | 1 | 12 | 11.13 | 11.09 | 11.11 | 0 |
| | | 1 | 24 | 11.12 | 11.16 | 11.12 | 0 |
| | | 12 | 0 | 11.13 | 11.26 | 11.15 | 0 |
| | | 12 | 7 | 11.13 | 11.24 | 11.19 | 0 |
| | | 12 | 13 | 11.10 | 11.24 | 11.16 | 0 |
| | | 25 | 0 | 11.12 | 11.26 | 11.17 | 0 |
| | 16QAM | 1 | 0 | 11.31 | 11.34 | 11.14 | 0 |
| | | 1 | 12 | 11.28 | 11.25 | 11.13 | 0 |
| | | 1 | 24 | 11.32 | 11.25 | 11.14 | 0 |
| | | 12 | 0 | 11.06 | 11.27 | 11.09 | 0 |
| | | 12 | 7 | 11.04 | 11.21 | 11.06 | 0 |
| | | 12 | 13 | 11.01 | 11.22 | 11.07 | 0 |
| | | 25 | 0 | 11.11 | 11.20 | 11.18 | 0 |
| | 64QAM | 1 | 0 | 11.35 | 11.44 | 11.40 | 0 |
| | | 1 | 12 | 11.31 | 11.12 | 11.11 | 0 |
| | | 1 | 24 | 11.33 | 11.42 | 11.38 | 0 |
| | | 12 | 0 | 11.28 | 11.44 | 11.27 | 0 |
| | | 12 | 7 | 11.36 | 11.40 | 11.25 | 0 |
| | | 12 | 13 | 11.27 | 11.36 | 11.23 | 0 |
| | | 25 | 0 | 11.21 | 11.40 | 11.16 | 0 |
| | 256QAM | 1 | 0 | 11.46 | 11.55 | 11.13 | 0 |
| | | 1 | 12 | 11.15 | 11.27 | 11.24 | 0 |
| | | 1 | 24 | 11.40 | 11.30 | 11.35 | 0 |
| | | 12 | 0 | 11.27 | 11.31 | 11.17 | 0 |
| | | 12 | 7 | 11.23 | 11.32 | 11.19 | 0 |
| | | 12 | 13 | 11.25 | 11.37 | 11.09 | 0 |
| | | 25 | 0 | 11.31 | 11.42 | 11.15 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 131 987 | 132 322 | 132 657 | |
| | | | | 1 711.5 MHz | 1 745.0 MHz | 1 778.5 MHz | |
| 3 MHz | QPSK | 1 | 0 | 11.17 | 11.42 | 11.26 | 0 |
| | | 1 | 8 | 11.06 | 11.23 | 11.19 | 0 |
| | | 1 | 14 | 11.08 | 11.45 | 11.30 | 0 |
| | | 8 | 0 | 11.13 | 11.29 | 11.23 | 0 |
| | | 8 | 4 | 11.12 | 11.27 | 11.19 | 0 |
| | | 8 | 7 | 11.14 | 11.23 | 11.24 | 0 |
| | | 15 | 0 | 11.14 | 11.24 | 11.19 | 0 |
| | 16QAM | 1 | 0 | 11.52 | 11.43 | 11.19 | 0 |
| | | 1 | 8 | 11.48 | 11.35 | 11.09 | 0 |
| | | 1 | 14 | 11.50 | 11.24 | 11.10 | 0 |
| | | 8 | 0 | 11.22 | 11.24 | 11.16 | 0 |
| | | 8 | 4 | 11.26 | 11.16 | 11.16 | 0 |
| | | 8 | 7 | 11.28 | 11.14 | 11.09 | 0 |
| | | 15 | 0 | 11.13 | 11.27 | 11.16 | 0 |
| | 64QAM | 1 | 0 | 11.49 | 11.59 | 11.19 | 0 |
| | | 1 | 8 | 11.39 | 11.55 | 11.30 | 0 |
| | | 1 | 14 | 11.41 | 11.42 | 11.27 | 0 |
| | | 8 | 0 | 11.26 | 11.45 | 11.23 | 0 |
| | | 8 | 4 | 11.31 | 11.39 | 11.22 | 0 |
| | | 8 | 7 | 11.34 | 11.43 | 11.19 | 0 |
| | | 15 | 0 | 11.32 | 11.41 | 11.17 | 0 |
| | 256QAM | 1 | 0 | 11.50 | 11.44 | 11.31 | 0 |
| | | 1 | 8 | 11.31 | 11.38 | 11.24 | 0 |
| | | 1 | 14 | 11.32 | 11.36 | 11.36 | 0 |
| | | 8 | 0 | 11.25 | 11.46 | 11.20 | 0 |
| | | 8 | 4 | 11.33 | 11.36 | 11.20 | 0 |
| | | 8 | 7 | 11.46 | 11.40 | 11.31 | 0 |
| | | 15 | 0 | 11.25 | 11.45 | 11.22 | 0 |

| Band width | Modulation | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | 131 979 | 132 322 | 132 665 | |
| | | | | 1 710.7 MHz | 1 745.0 MHz | 1 779.3 MHz | |
| 1.4 MHz | QPSK | 1 | 0 | 11.23 | 11.35 | 11.28 | 0 |
| | | 1 | 3 | 11.08 | 11.29 | 11.11 | 0 |
| | | 1 | 5 | 11.22 | 11.31 | 11.20 | 0 |
| | | 3 | 0 | 11.21 | 11.33 | 11.16 | 0 |
| | | 3 | 1 | 11.17 | 11.29 | 11.12 | 0 |
| | | 3 | 3 | 11.06 | 11.21 | 11.18 | 0 |
| | | 6 | 0 | 11.17 | 11.32 | 11.18 | 0 |
| | 16QAM | 1 | 0 | 11.13 | 11.29 | 11.12 | 0 |
| | | 1 | 3 | 11.05 | 11.38 | 11.21 | 0 |
| | | 1 | 5 | 11.16 | 11.38 | 11.17 | 0 |
| | | 3 | 0 | 11.27 | 11.33 | 11.47 | 0 |
| | | 3 | 1 | 11.11 | 11.35 | 11.28 | 0 |
| | | 3 | 3 | 11.13 | 11.25 | 11.33 | 0 |
| | | 6 | 0 | 11.17 | 11.33 | 11.22 | 0 |
| | 64QAM | 1 | 0 | 11.22 | 11.35 | 11.17 | 0 |
| | | 1 | 3 | 11.16 | 11.39 | 11.23 | 0 |
| | | 1 | 5 | 11.38 | 11.38 | 11.21 | 0 |
| | | 3 | 0 | 11.24 | 11.37 | 11.26 | 0 |
| | | 3 | 1 | 11.31 | 11.31 | 11.22 | 0 |
| | | 3 | 3 | 11.42 | 11.47 | 11.22 | 0 |
| | | 6 | 0 | 11.27 | 11.33 | 11.21 | 0 |
| | 256QAM | 1 | 0 | 11.26 | 11.51 | 11.17 | 0 |
| | | 1 | 3 | 11.29 | 11.40 | 11.18 | 0 |
| | | 1 | 5 | 11.47 | 11.39 | 11.37 | 0 |
| | | 3 | 0 | 11.33 | 11.46 | 11.18 | 0 |
| | | 3 | 1 | 11.44 | 11.15 | 11.24 | 0 |
| | | 3 | 3 | 11.21 | 11.55 | 11.28 | 0 |
| | | 6 | 0 | 11.30 | 11.41 | 11.21 | 0 |

10.8 5G NR Average Conducted Output Power(Back-off_RCV, Grip Sensor)

10.8.1 NR n5(SA)

| Band width | Modulation | Mode | RB Size | RB offset | Maximum Average Power | | MPR |
|------------|------------|----------|---------|--------------|-----------------------|---|-----|
| | | | | | 167 300 | | |
| | | | | | 836.5 MHz | | |
| 20 MHz | DFT-s-OFDM | π/2 BPSK | 1 | 1 | 16.42 | 0 | |
| | | | 1 | 53 | 16.50 | 0 | |
| | | | 1 | 104 | 16.34 | 0 | |
| | | | 50 | 0 | 16.45 | 0 | |
| | | | 50 | 28 | 16.49 | 0 | |
| | | | 50 | 56 | 16.45 | 0 | |
| | | | 100 | 0 | 16.51 | 0 | |
| | | QPSK | 1 | 1 | 16.39 | 0 | |
| | | | 1 | 53 | 16.56 | 0 | |
| | | | 1 | 104 | 16.33 | 0 | |
| | | | 50 | 0 | 16.48 | 0 | |
| | | | 50 | 28 | 16.53 | 0 | |
| | | | 50 | 56 | 16.49 | 0 | |
| | 100 | 0 | 16.52 | 0 | | | |
| | 16QAM | 1 | 1 | 16.25 | 0 | | |
| | 64QAM | 1 | 1 | 16.43 | 0 | | |
| 256QAM | 1 | 1 | 16.14 | 0 | | | |
| CP-OFDM | QPSK | 1 | 1 | 16.42 | 0 | | |

| Band width | Modulation | Mode | RB Size | RB offset | Maximum Average Power | | MPR |
|------------|------------|----------|---------|-----------|-----------------------|-------|-----|
| | | | | | 167 300 | | |
| | | | | | 836.5 MHz | | |
| 15 MHz | DFT-s-OFDM | π/2 BPSK | 1 | 1 | 16.53 | 0 | |
| | | | 1 | 40 | 16.46 | 0 | |
| | | | 1 | 77 | 16.42 | 0 | |
| | | | 36 | 0 | 16.55 | 0 | |
| | | | 36 | 22 | 16.50 | 0 | |
| | | | 36 | 43 | 16.49 | 0 | |
| | | | 75 | 0 | 16.55 | 0 | |
| | | QPSK | 1 | 1 | 16.53 | 0 | |
| | | | 1 | 40 | 16.41 | 0 | |
| | | | 1 | 77 | 16.49 | 0 | |
| | | | 36 | 0 | 16.52 | 0 | |
| | | | 36 | 22 | 16.58 | 0 | |
| | | | 36 | 43 | 16.53 | 0 | |
| | | | 75 | 0 | 16.56 | 0 | |
| | | | 16QAM | 1 | 1 | 16.39 | 0 |
| | 64QAM | 1 | 1 | 16.60 | 0 | | |
| | 256QAM | 1 | 1 | 16.25 | 0 | | |
| | CP-OFDM | QPSK | 1 | 1 | 16.58 | 0 | |

| Band width | Modulation | Mode | RB Size | RB offset | Maximum Average Power | | MPR |
|------------|------------|--------------|---------|-----------|-----------------------|---|-----|
| | | | | | 167 300 | | |
| | | | | | 836.5 MHz | | |
| 10 MHz | DFT-s-OFDM | $\pi/2$ BPSK | 1 | 1 | 16.53 | | 0 |
| | | | 1 | 26 | 16.73 | | 0 |
| | | | 1 | 50 | 16.53 | | 0 |
| | | | 25 | 0 | 16.48 | | 0 |
| | | | 25 | 14 | 16.54 | | 0 |
| | | | 25 | 27 | 16.56 | | 0 |
| | | | 50 | 0 | 16.46 | | 0 |
| | | QPSK | 1 | 1 | 16.47 | | 0 |
| | | | 1 | 26 | 16.51 | | 0 |
| | | | 1 | 50 | 16.48 | | 0 |
| | | | 25 | 0 | 16.55 | | 0 |
| | | | 25 | 14 | 16.51 | | 0 |
| | | | 25 | 27 | 16.43 | | 0 |
| | | | 50 | 0 | 16.58 | | 0 |
| | | 16QAM | 1 | 1 | 16.31 | | 0 |
| | | 64QAM | 1 | 1 | 16.54 | | 0 |
| 256QAM | 1 | 1 | 16.63 | | 0 | | |
| CP-OFDM | QPSK | 1 | 1 | 16.52 | | 0 | |

| Band width | Modulation | Mode | RB Size | RB offset | Maximum Average Power | | | MPR | |
|------------|------------|--------------|---------|-----------|-----------------------|-----------|-----------|-------|---|
| | | | | | 165300 | 167300 | 169300 | | |
| | | | | | 826.5 MHz | 836.5 MHz | 846.5 MHz | | |
| 5 MHz | DFT-s-OFDM | $\pi/2$ BPSK | 1 | 1 | 16.50 | 16.53 | 16.45 | 0 | |
| | | | 1 | 13 | 16.40 | 16.41 | 16.30 | 0 | |
| | | | 1 | 23 | 16.52 | 16.47 | 16.38 | 0 | |
| | | | 12 | 0 | 16.47 | 16.55 | 16.39 | 0 | |
| | | | 12 | 7 | 16.52 | 16.49 | 16.37 | 0 | |
| | | | 12 | 13 | 16.49 | 16.52 | 16.39 | 0 | |
| | | | 25 | 0 | 16.43 | 16.52 | 16.45 | 0 | |
| | | QPSK | 1 | 1 | 16.49 | 16.47 | 16.35 | 0 | |
| | | | 1 | 13 | 16.37 | 16.43 | 16.30 | 0 | |
| | | | 1 | 23 | 16.50 | 16.46 | 16.35 | 0 | |
| | | | 12 | 0 | 16.45 | 16.53 | 16.31 | 0 | |
| | | | 12 | 7 | 16.48 | 16.47 | 16.38 | 0 | |
| | | | 12 | 13 | 16.47 | 16.41 | 16.35 | 0 | |
| | | 25 | 0 | 16.52 | 16.58 | 16.46 | 0 | | |
| | | 16QAM | 1 | 1 | 16.50 | 16.71 | 16.34 | 0 | |
| | | 64QAM | 1 | 1 | 16.44 | 16.58 | 16.77 | 0 | |
| | | 256QAM | 1 | 1 | 16.71 | 16.42 | 16.68 | 0 | |
| | | CP-OFDM | QPSK | 1 | 1 | 16.38 | 16.35 | 16.24 | 0 |

10.8.2 NR n66 (SA)

| Band width | Modulation | Mode | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|--------------|---------|-----------|-----------------------|--------------|-------------|-----|
| | | | | | 344000 | 349000 | 354000 | |
| | | | | | 1 720.0 MHz | 1 745.0 MHz | 1 770.0 MHz | |
| 20 MHz | DFT-s-OFDM | $\pi/2$ BPSK | 1 | 1 | 11.73 | 11.50 | 11.50 | 0 |
| | | | 1 | 53 | 11.67 | 11.38 | 11.64 | 0 |
| | | | 1 | 104 | 11.73 | 11.02 | 11.59 | 0 |
| | | | 50 | 0 | 11.55 | 11.55 | 11.56 | 0 |
| | | | 50 | 28 | 11.67 | 11.34 | 11.55 | 0 |
| | | | 50 | 56 | 11.61 | 11.18 | 11.51 | 0 |
| | | | 100 | 0 | 11.57 | 11.38 | 11.57 | 0 |
| | | QPSK | 1 | 1 | 11.64 | 11.69 | 11.59 | 0 |
| | | | 1 | 53 | 11.66 | 11.47 | 11.58 | 0 |
| | | | 1 | 104 | 11.65 | 11.07 | 11.43 | 0 |
| | | | 50 | 0 | 11.63 | 11.64 | 11.59 | 0 |
| | | | 50 | 28 | 11.54 | 11.38 | 11.54 | 0 |
| | | | 50 | 56 | 11.57 | 11.14 | 11.55 | 0 |
| | | | 100 | 0 | 11.53 | 11.54 | 11.52 | 0 |
| | | 16QAM | 1 | 1 | 11.50 | 11.61 | 11.58 | 0 |
| | | 64QAM | 1 | 1 | 11.46 | 11.22 | 11.62 | 0 |
| | | 256QAM | 1 | 1 | 11.51 | 11.70 | 11.42 | 0 |
| CP-OFDM | QPSK | 1 | 1 | 11.61 | 11.69 | 11.62 | 0 | |

| Band width | Modulation | Mode | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|--------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | | 343500 | 349000 | 354500 | |
| | | | | | 1 717.5 MHz | 1 745.0 MHz | 1 772.5 MHz | |
| 15 MHz | DFT-s-OFDM | $\pi/2$ BPSK | 1 | 1 | 11.75 | 11.77 | 11.51 | 0 |
| | | | 1 | 40 | 11.34 | 11.53 | 11.33 | 0 |
| | | | 1 | 77 | 11.66 | 11.49 | 11.58 | 0 |
| | | | 36 | 0 | 11.37 | 11.77 | 11.40 | 0 |
| | | | 36 | 22 | 11.55 | 11.61 | 11.39 | 0 |
| | | | 36 | 43 | 11.62 | 11.60 | 11.52 | 0 |
| | | | 75 | 0 | 11.52 | 11.68 | 11.47 | 0 |
| | | QPSK | 1 | 1 | 11.61 | 11.85 | 11.58 | 0 |
| | | | 1 | 40 | 11.43 | 11.58 | 11.33 | 0 |
| | | | 1 | 77 | 11.69 | 11.53 | 11.35 | 0 |
| | | | 36 | 0 | 11.70 | 11.85 | 11.65 | 0 |
| | | | 36 | 22 | 11.46 | 11.69 | 11.46 | 0 |
| | | | 36 | 43 | 11.62 | 11.57 | 11.53 | 0 |
| | | | 75 | 0 | 11.54 | 11.76 | 11.53 | 0 |
| | | 16QAM | 1 | 1 | 11.44 | 11.74 | 11.51 | 0 |
| | | 64QAM | 1 | 1 | 11.58 | 11.91 | 11.82 | 0 |
| | | 256QAM | 1 | 1 | 11.44 | 11.70 | 11.36 | 0 |
| CP-OFDM | QPSK | 1 | 1 | 11.45 | 11.78 | 11.43 | 0 | |

| Band width | Modulation | Mode | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|--------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | | 343000 | 349000 | 355000 | |
| | | | | | 1 715.0 MHz | 1 745.0 MHz | 1 775.0 MHz | |
| 10 MHz | DFT-s-OFDM | $\pi/2$ BPSK | 1 | 1 | 11.88 | 11.86 | 11.58 | 0 |
| | | | 1 | 26 | 11.61 | 11.82 | 11.61 | 0 |
| | | | 1 | 50 | 11.82 | 11.62 | 11.61 | 0 |
| | | | 25 | 0 | 11.49 | 11.82 | 11.51 | 0 |
| | | | 25 | 14 | 11.64 | 11.77 | 11.59 | 0 |
| | | | 25 | 27 | 11.62 | 11.69 | 11.51 | 0 |
| | | | 50 | 0 | 11.50 | 11.69 | 11.54 | 0 |
| | | QPSK | 1 | 1 | 11.65 | 11.89 | 11.58 | 0 |
| | | | 1 | 26 | 11.68 | 11.82 | 11.62 | 0 |
| | | | 1 | 50 | 11.92 | 11.70 | 11.52 | 0 |
| | | | 25 | 0 | 11.72 | 11.91 | 11.67 | 0 |
| | | | 25 | 14 | 11.47 | 11.72 | 11.43 | 0 |
| | | | 25 | 27 | 11.76 | 11.73 | 11.62 | 0 |
| | | 50 | 0 | 11.53 | 11.70 | 11.45 | 0 | |
| | | 16QAM | 1 | 1 | 11.62 | 11.85 | 11.63 | 0 |
| | | 64QAM | 1 | 1 | 11.38 | 11.70 | 11.61 | 0 |
| 256QAM | 1 | 1 | 11.59 | 11.83 | 11.52 | 0 | | |
| CP-OFDM | QPSK | 1 | 1 | 11.58 | 11.94 | 11.64 | 0 | |

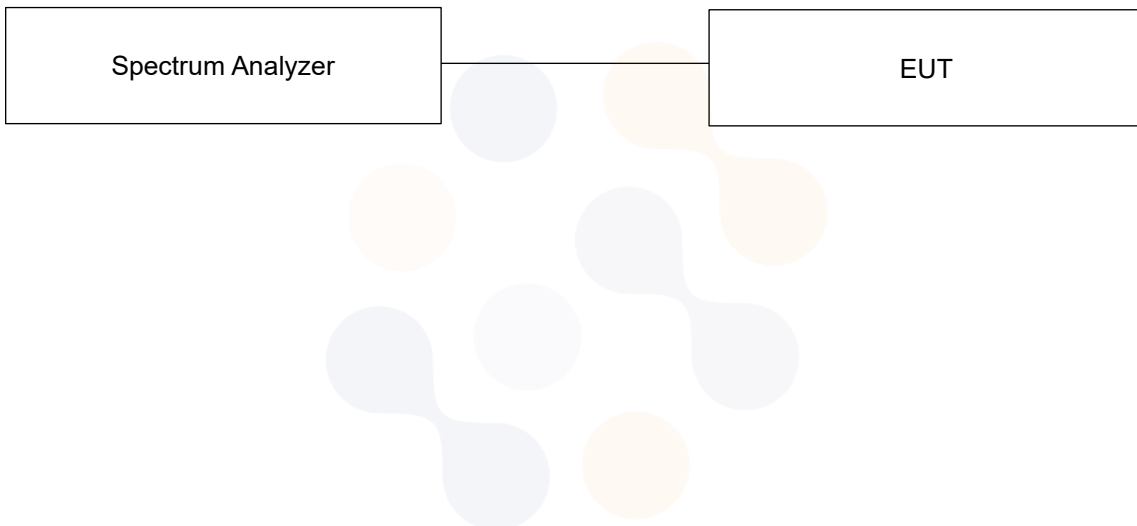
| Band width | Modulation | Mode | RB Size | RB offset | Maximum Average Power | | | MPR |
|------------|------------|--------------|---------|-----------|-----------------------|-------------|-------------|-----|
| | | | | | 342500 | 349000 | 355500 | |
| | | | | | 1 712.5 MHz | 1 745.0 MHz | 1 777.5 MHz | |
| 5 MHz | DFT-s-OFDM | $\pi/2$ BPSK | 1 | 1 | 11.77 | 11.79 | 11.59 | 0 |
| | | | 1 | 13 | 11.40 | 11.65 | 11.37 | 0 |
| | | | 1 | 23 | 11.84 | 11.64 | 11.71 | 0 |
| | | | 12 | 0 | 11.54 | 11.87 | 11.58 | 0 |
| | | | 12 | 7 | 11.72 | 11.75 | 11.56 | 0 |
| | | | 12 | 13 | 11.69 | 11.67 | 11.57 | 0 |
| | | | 25 | 0 | 11.58 | 11.76 | 11.63 | 0 |
| | | QPSK | 1 | 1 | 11.53 | 11.83 | 11.57 | 0 |
| | | | 1 | 13 | 11.54 | 11.65 | 11.41 | 0 |
| | | | 1 | 23 | 12.02 | 11.79 | 11.65 | 0 |
| | | | 12 | 0 | 11.51 | 11.71 | 11.42 | 0 |
| | | | 12 | 7 | 11.54 | 11.76 | 11.52 | 0 |
| | | | 12 | 13 | 11.70 | 11.67 | 11.58 | 0 |
| | | 25 | 0 | 11.52 | 11.76 | 11.52 | 0 | |
| | | 16QAM | 1 | 1 | 11.60 | 11.92 | 11.69 | 0 |
| | | 64QAM | 1 | 1 | 11.22 | 11.55 | 11.44 | 0 |
| 256QAM | 1 | 1 | 11.48 | 11.71 | 11.45 | 0 | | |
| CP-OFDM | QPSK | 1 | 1 | 11.51 | 11.82 | 11.43 | 0 | |

10.9 WLAN & Bluetooth Average Conducted Output Power

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 modes 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.

Power Measurement Setup



10.9.1 WLAN Average Conducted Output Power

| Band | Mode | Freq. [MHz] | Channel | Conducted Powers (dBm) | | | |
|-----------------|---------|-------------|---------|------------------------|--------------|--------------|--------------|
| | | | | Main Ant. | Aux Ant. | MIMO Ant. | |
| | | | | | | Main | Aux |
| WLAN 2.4 GHz | 802.11b | 2 412.0 | 1 | 18.38 | N/A | 18.28 | 18.34 |
| | | 2 437.0 | 6 | 18.47 | | 18.23 | 18.13 |
| | | 2 462.0 | 11 | 16.20 | | 16.07 | 16.32 |
| U-NII-2A | 802.11a | 5 260.0 | 52 | N/A | 16.52 | 16.26 | 16.55 |
| | | 5 280.0 | 56 | | 16.45 | 16.78 | 15.95 |
| | | 5 300.0 | 60 | | 16.20 | 16.49 | 15.45 |
| | | 5 320.0 | 64 | | 16.86 | 16.55 | 16.16 |
| U-NII-2C | 802.11a | 5 500.0 | 100 | | 16.68 | 16.89 | 16.48 |
| | | 5 600.0 | 120 | | 16.25 | 16.22 | 16.91 |
| | | 5 720.0 | 144 | | 15.56 | 15.23 | 13.90 |
| U-NII-3 | 802.11a | 5 745.0 | 149 | | 15.39 | 15.12 | 13.91 |
| | | 5 785.0 | 157 | | 14.78 | 15.40 | 15.17 |
| | | 5 825.0 | 165 | | 15.10 | 14.52 | 14.14 |

10.9.2 WLAN Average Conducted Output Power(Back-off_RCV, Grip Sensor)

| Band | Mode | Freq. [MHz] | Channel | Conducted Powers (dBm) | | | |
|-----------------|---------|-------------|---------|------------------------|-------------|-------------|-------------|
| | | | | Main Ant. | Aux Ant. | MIMO Ant. | |
| | | | | | | Main | Aux |
| WLAN 2.4 GHz | 802.11b | 2 412.0 | 1 | 9.96 | N/A | 9.71 | 9.81 |
| | | 2 437.0 | 6 | 9.91 | | 9.68 | 9.32 |
| | | 2 462.0 | 11 | 9.88 | | 9.92 | 9.68 |
| U-NII-2A | 802.11a | 5 260.0 | 52 | N/A | 5.47 | 5.43 | 5.31 |
| | | 5 280.0 | 56 | | 5.21 | 5.21 | 4.98 |
| | | 5 300.0 | 60 | | 5.18 | 5.31 | 4.96 |
| | | 5 320.0 | 64 | | 5.65 | 6.03 | 5.43 |
| U-NII-2C | 802.11a | 5 500.0 | 100 | | 5.38 | 5.68 | 6.02 |
| | | 5 600.0 | 120 | | 5.35 | 5.09 | 6.23 |
| | | 5 720.0 | 144 | | 5.37 | 6.14 | 5.83 |
| U-NII-3 | 802.11a | 5 745.0 | 149 | | 5.50 | 6.47 | 4.71 |
| | | 5 785.0 | 157 | | 5.99 | 6.49 | 4.51 |
| | | 5 825.0 | 165 | | 4.59 | 6.45 | 4.50 |

10.9.3 Bluetooth Average Conducted Output Power

| Band | Mode | Freq. [MHz] | Channel | Conducted Powers (dBm) |
|-----------|------------|-------------|---------|------------------------|
| Bluetooth | BDR DH5 | 2 402.0 | 0 | 15.41 |
| | | 2 441.0 | 39 | 15.03 |
| | | 2 480.0 | 78 | 16.00 |

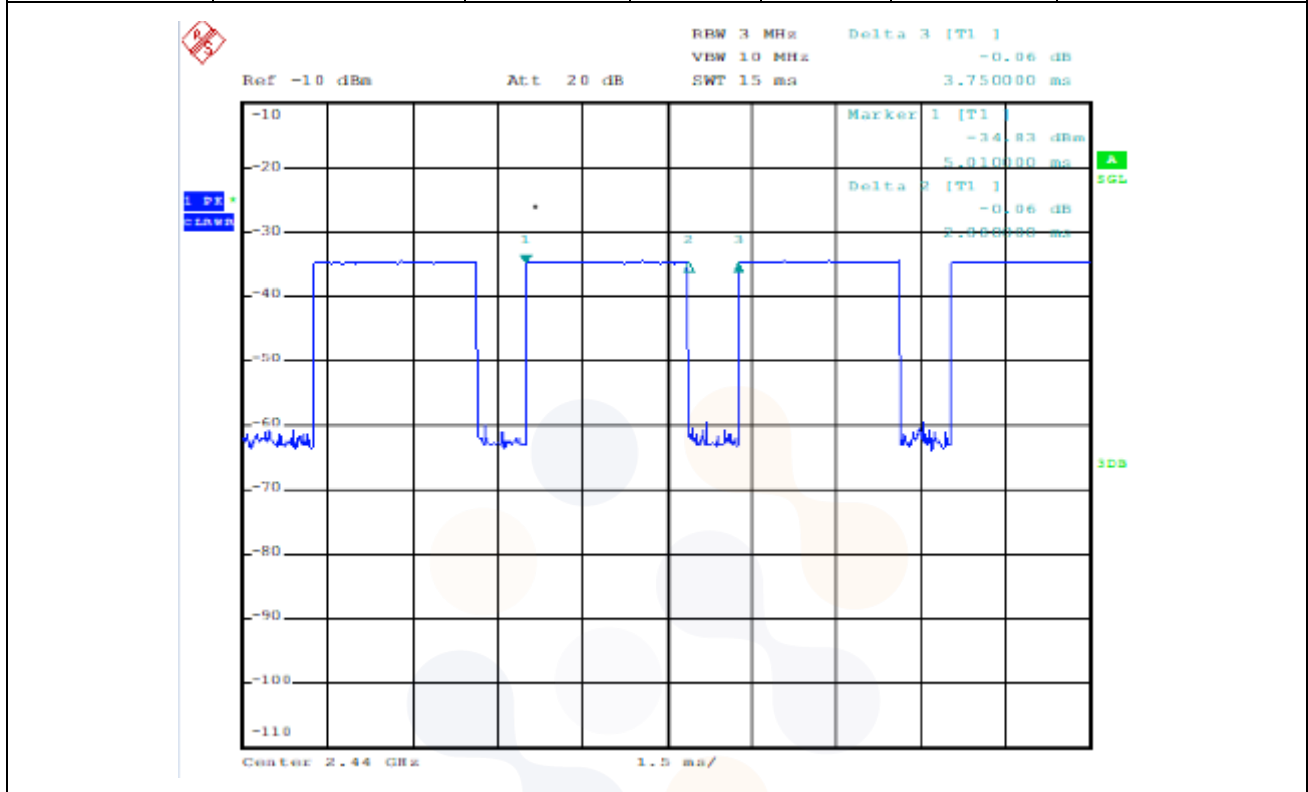
10.9.4 Bluetooth Average Conducted Output Power(Back-off_RCV, Grip Sensor)

| Band | Mode | Freq. [MHz] | Channel | Conducted Powers (dBm) |
|-----------|------------------------|-------------|---------|------------------------|
| | | | | RCV, Grip Sensor |
| Bluetooth | LE 125 Coded 255 | 2 402.0 | 0 | 11.19 |
| | | 2 440.0 | 19 | 10.55 |
| | | 2 480.0 | 39 | 8.48 |

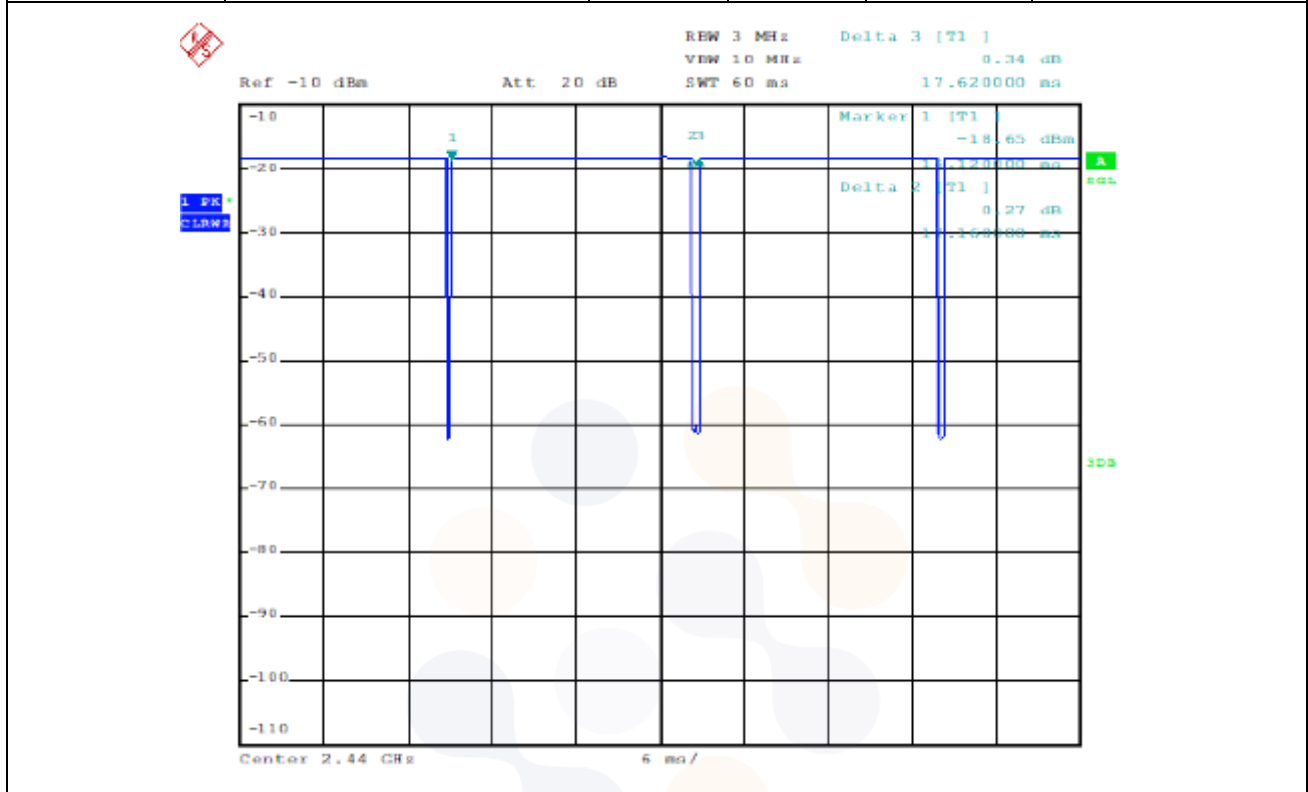
10.10 Wireless Band Duty Cycle

| Wireless Bands | Frequency Bands | Ant. | Mode | Duty Cycle (%) |
|----------------|--------------------------|------------|------------------------------------|--------------------|
| GSM | 850 1900 | | Voice, GPRS(GMSK), EGPRS(8PSK) | Voice: 12.5 |
| | | | | (E)GPRS 1Tx : 12.5 |
| | | | | (E)GPRS 2Tx : 25.0 |
| | | | | (E)GPRS 3Tx : 37.5 |
| | | | | (E)GPRS 4Tx : 50.0 |
| WCDMA | Band II/ IV/ V | | RMC, AMR, HSDPA, HSUPA,DC-HSDPA | 100 |
| LTE | FDD Band 2/5/12/13/26/66 | | QPSK, 16QAM, 64QAM, 256QAM | 100 |
| | TDD Band 41 | | | 63.33 |
| 5G NR | n5/n66 | | DFT-s-OFDM, CP-OFDM | 100 |
| WLAN | 2.4 GHz | Ant.1/MIMO | 802.11b | 98.70 |
| | U-NII | Ant.2 | 802.11a | 93.90 |
| | | MIMO | | 94.40 |

| Wireless Bands | Frequency Bands | | On, Off Time | | Duty Cycle | |
|----------------|-----------------|--------|--------------|------------------|----------------|------------------------------|
| | Mode | Packet | On Time (ms) | On-Off Time (ms) | Duty Cycle (%) | Duty Cycle Compensate Factor |
| Bluetooth | BDR(GFSK) | DH5 | 2.88 | 3.75 | 76.8 | 1.302 |



| Wireless Bands | Frequency Bands | On, Off Time | | Duty Cycle | |
|----------------|------------------|--------------|------------------|----------------|------------------------------|
| | Mode | On Time (ms) | On-Off Time (ms) | Duty Cycle (%) | Duty Cycle Compensate Factor |
| Bluetooth | LE_125 Coded 255 | 17.16 | 17.62 | 97.4 | 1.027 |



11. System Verification

11.1 Measurement date and environment

| Shield room | Date | Environment | | | |
|-------------|------------|------------------|------|--------------|------|
| | | Temperature (°C) | | Humidity (%) | |
| 8F - 1 | 2023-09-26 | 21.5 | 21.0 | 54.2 | 53.7 |
| | 2023-09-27 | 21.3 | 21.8 | 55.4 | 55.9 |
| | 2023-10-04 | 21.2 | 21.1 | 51.2 | 52.2 |
| | 2023-10-05 | 21.6 | 21.5 | 52.6 | 51.9 |
| | 2023-10-10 | 21.5 | 21.2 | 56.2 | 55.9 |
| | 2023-10-11 | 21.6 | 21.9 | 55.9 | 54.1 |
| | 2023-10-12 | 21.8 | 21.3 | 54.2 | 55.4 |
| | 2023-10-13 | 21.1 | 21.5 | 53.9 | 53.2 |
| | 2023-10-16 | 21.5 | 21.9 | 54.8 | 54.3 |
| | 2023-10-18 | 21.9 | 21.5 | 51.2 | 53.4 |
| | 2023-10-19 | 21.4 | 21.1 | 52.0 | 53.2 |
| | 2023-10-30 | 21.5 | 21.3 | 52.9 | 53.2 |
| | 2023-11-07 | 22.0 | 22.2 | 56.0 | 56.1 |
| 8F - 2 | 2023-10-11 | 21.1 | 20.9 | 51.2 | 50.6 |
| | 2023-10-12 | 21.3 | 21.2 | 53.2 | 52.4 |
| | 2023-10-18 | 21.2 | 21.0 | 52.8 | 52.4 |
| | 2023-10-19 | 21.4 | 21.1 | 52.1 | 53.4 |
| | 2023-10-20 | 21.0 | 21.3 | 53.6 | 54.6 |
| | 2023-10-21 | 21.5 | 21.2 | 54.4 | 55.1 |
| | 2023-10-22 | 21.1 | 21.4 | 56.1 | 54.7 |
| | 2023-10-30 | 21.0 | 21.3 | 55.6 | 54.7 |
| 8F - 3 | 2023-09-19 | 21.0 | 21.2 | 56.7 | 56.9 |
| | 2023-09-20 | 21.2 | 21.4 | 56.1 | 56.5 |
| | 2023-09-21 | 21.3 | 21.6 | 56.5 | 56.9 |
| | 2023-09-22 | 21.1 | 21.5 | 57.0 | 57.2 |
| | 2023-09-26 | 21.1 | 21.2 | 60.8 | 61.6 |
| | 2023-09-27 | 21.1 | 21.5 | 61.1 | 62.0 |
| | 2023-10-13 | 21.3 | 21.3 | 54.8 | 54.9 |
| | 2023-10-18 | 21.2 | 21.3 | 52.1 | 52.5 |
| | 2023-10-31 | 21.1 | 21.3 | 53.6 | 53.5 |

11.2 Tissue Verification

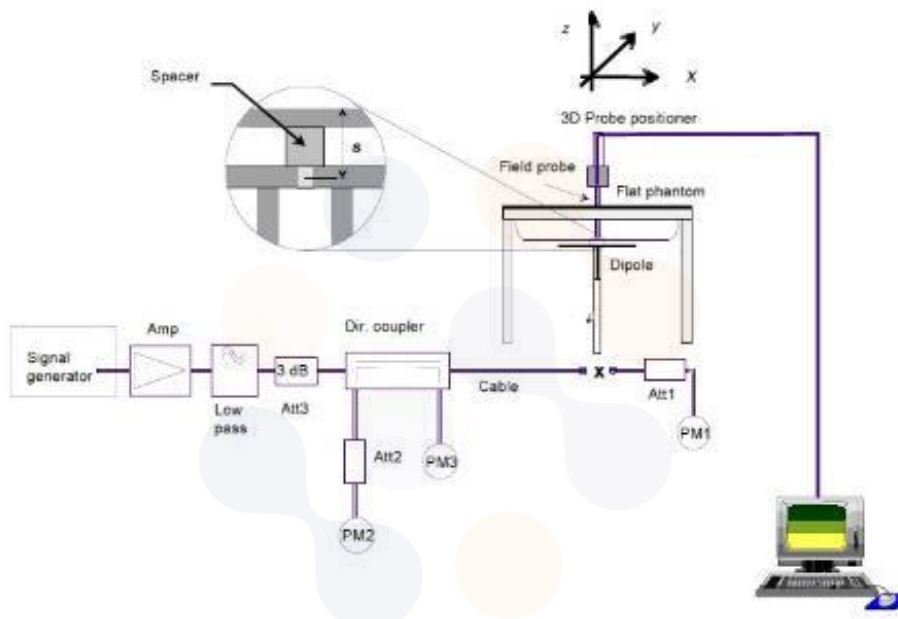
The dielectric properties for this Tissue Simulant Liquids were measured by using the SPEAG Model DAK3.5 Dielectric Probe in conjunction with Agilent E5071B Network Analyzer (300 kHz – 8 500 MHz). The Conductivity (σ) and Permittivity (ρ) are listed in Table 1. For the SAR measurement given in this report. The temperature variation of the Tissue Simulant Liquids was $(22 \pm 2) ^\circ\text{C}$.

| Frequency (MHz) | Limit/Measured | Permittivity (ρ) | Conductivity (σ) | Temp. ($^\circ\text{C}$) | |
|-----------------|-------------------|-------------------------|------------------------------------|---------------------------------|------------|
| 750.0 | Recommended Limit | | $41.90 \pm 5\%$ (39.81 ~ 44.00) | $0.89 \pm 5\%$ (0.85 ~ 0.93) | 22 ± 2 |
| | Measured | 2023-09-22 | 42.13 | 0.90 | 20.96 |
| | | 2023-10-11 | 41.03 | 0.91 | 21.50 |
| | | 2023-10-30 | 42.06 | 0.92 | 20.88 |
| 850.0 | Recommended Limit | | $41.50 \pm 5\%$ (39.43 ~ 43.58) | $0.92 \pm 5\%$ (0.87 ~ 0.97) | 22 ± 2 |
| | Measured | 2023-09-19 | 42.85 | 0.90 | 20.82 |
| | | 2023-09-26 | 40.44 | 0.91 | 20.87 |
| | | 2023-09-26 | 42.35 | 0.90 | 20.98 |
| | | 2023-09-26 | 41.00 | 0.95 | 21.04 |
| | | 2023-09-27 | 40.64 | 0.90 | 20.87 |
| 2023-10-12 | 41.76 | 0.95 | 21.02 | | |
| 1 750.0 | Recommended Limit | | $40.07 \pm 5\%$ (38.07 ~ 42.07) | $1.37 \pm 5\%$ (1.30 ~ 1.44) | 22 ± 2 |
| | Measured | 2023-09-21 | 39.16 | 1.40 | 20.85 |
| | | 2023-09-27 | 38.97 | 1.36 | 20.79 |
| | | 2023-10-05 | 40.29 | 1.42 | 20.88 |
| | | 2023-10-13 | 39.30 | 1.42 | 20.99 |
| | | 2023-10-30 | 38.61 | 1.37 | 20.97 |
| 2023-10-31 | 39.00 | 1.39 | 20.92 | | |
| 1 900.0 | Recommended Limit | | $40.00 \pm 5\%$ (38.00 ~ 42.00) | $1.40 \pm 5\%$ (1.33 ~ 1.47) | 22 ± 2 |
| | Measured | 2023-09-20 | 38.94 | 1.43 | 20.91 |
| | | 2023-10-04 | 38.51 | 1.41 | 20.95 |
| | | 2023-10-10 | 39.62 | 1.39 | 20.99 |
| | | 2023-10-13 | 39.04 | 1.43 | 20.92 |
| 2023-11-07 | 39.67 | 1.40 | 20.89 | | |
| 2 450.0 | Recommended Limit | | $39.20 \pm 5\%$ (37.24 ~ 41.16) | $1.80 \pm 5\%$ (1.71 ~ 1.89) | 22 ± 2 |
| | Measured | 2023-10-11 | 39.90 | 1.80 | 20.89 |
| | | 2023-10-12 | 40.99 | 1.81 | 21.02 |
| | | 2023-10-21 | 38.65 | 1.82 | 20.86 |
| 2023-10-22 | 38.48 | 1.80 | 20.95 | | |
| 2 600.0 | Recommended Limit | | $39.00 \pm 5\%$ (37.05 ~ 40.95) | $1.96 \pm 5\%$ (1.86 ~ 2.06) | 22 ± 2 |
| | Measured | 2023-10-16 | 39.18 | 2.02 | 20.94 |
| | | 2023-10-18 | 37.97 | 1.98 | 20.95 |
| | | 2023-10-19 | 38.71 | 1.93 | 20.92 |
| | | 2023-10-30 | 40.15 | 1.93 | 20.98 |
| 5 250.0 | Recommended Limit | | $35.95 \pm 5\%$ (34.15 ~ 37.75) | $4.71 \pm 5\%$ (4.47 ~ 4.95) | 22 ± 2 |
| | Measured | 2023-10-18 | 35.76 | 4.75 | 20.96 |
| | | 2023-10-18 | 35.21 | 4.61 | 21.07 |
| 5 600.0 | Recommended Limit | | $35.50 \pm 5\%$ (33.73 ~ 37.28) | $5.07 \pm 5\%$ (4.82 ~ 5.32) | 22 ± 2 |
| | Measured | 2023-10-18 | 35.06 | 5.14 | 20.96 |
| | | 2023-10-19 | 36.14 | 4.99 | 20.89 |
| 5 800.0 | Recommended Limit | | $35.30 \pm 5\%$ (33.54 ~ 37.07) | $5.27 \pm 5\%$ (5.01 ~ 5.53) | 22 ± 2 |
| | Measured | 2023-10-18 | 34.65 | 5.37 | 20.96 |
| | | 2023-10-20 | 35.76 | 5.16 | 20.93 |
| | | 2023-10-30 | 34.41 | 5.18 | 20.88 |

<Table 1. Measurement result of Tissue electric parameters>

11.3 SAR Test System Verification

The microwave circuit arrangement for system verification is sketched below picture. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within $\pm 10\%$ from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the Table 2. During the tests, the ambient temperature of the laboratory was in the range $(22 \pm 2) ^\circ\text{C}$, the relative humidity was in the range $(50 \pm 20)\%$ and the liquid depth Above the ear/grid reference points was above 15 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



| Frequency (MHz) | Tissue Type | Probe S/N | Verification Kit | Date | Limit/Measured (Normalized to 1 W) |
|-----------------|-------------|--------------------|--------------------|--------------------|------------------------------------|
| | | | | | Recommended 1g |
| 750.0 | HSL | EX3DV4 SN: 7540 | D750V3 SN: 1224 | Recommended Limit | $8.55 \pm 10\%$ (7.70~9.41) |
| | | | | 2023-09-22 | 8.40 |
| | | EX3DV4 SN: 3865 | D750V3 SN: 1183 | 2023-10-11 | 8.72 |
| | | | | Recommended Limit | $8.46 \pm 10\%$ (7.61~9.31) |
| | | 2023-10-30 | 8.72 | | |
| | | 850.0 | HSL | EX3DV4 SN: 7540 | D850V2 SN: 1030 |
| 2023-09-19 | 9.64 | | | | |
| 2023-09-26 | 9.52 | | | | |
| 2023-09-26 | 9.52 | | | | |
| 2023-09-26 | 10.44 | | | | |
| 2023-09-27 | 10.00 | | | | |
| | | EX3DV4 SN: 3865 | | 2023-10-12 | 9.96 |

| Frequency (MHz) | Tissue Type | Probe S/N | Verification Kit | Date | Limit/Measured (Normalized to 1 W) |
|--------------------|-------------------|-------------------------------|-------------------------------|-------------------|------------------------------------|
| | | | | | Recommended 1g |
| 1 750.0 | HSL | EX3DV4 SN: 7540 | D1750V2 SN: 1195 | Recommended Limit | 36.30 ± 10 % (32.67~39.93) |
| | | | | 2023-09-21 | 37.40 |
| | | EX3DV4 SN: 3865 | D1750V2 SN: 1072 | 2023-09-27 | 37.36 |
| | | | | 2023-10-05 | 37.76 |
| | | EX3DV4 SN: 7540 | D1750V2 SN: 1072 | 2023-10-13 | 36.04 |
| | | | | Recommended Limit | 36.00 ± 10 % (32.40~39.60) |
| 2023-10-30 | 36.04 | | | | |
| 1 900.0 | HSL | EX3DV4 SN: 7540 | D1900V2 SN: 5d248 | Recommended Limit | 39.70 ± 10 % (35.73~43.67) |
| | | | | 2023-09-20 | 39.28 |
| | | 2023-10-04 | | 38.00 | |
| | | 2023-10-10 | | 38.84 | |
| | | EX3DV4 SN: 3865 | D1900V2 SN: 5d160 | 2023-10-13 | 40.80 |
| EX3DV4 SN: 7540 | Recommended Limit | 40.00 ± 10 % (36.03~44.00) | | | |
| 2023-11-07 | 40.40 | | | | |
| 2 450.0 | HSL | EX3DV4 SN: 7840 | D2450V2 SN: 1091 | Recommended Limit | 52.20 ± 10 % (46.98 ~ 57.42) |
| | | | | 2023-10-11 | 54.40 |
| | | D2450V2 SN: 895 | 2023-10-12 | 55.70 | |
| | | | 2023-10-21 | 53.80 | |
| | | 2023-10-22 | 52.80 | | |
| 2 600.0 | HSL | EX3DV4 SN: 3865 | D2600V2 SN: 1200 | Recommended Limit | 55.50 ± 10 % (49.95~61.05) |
| | | | | 2023-10-16 | 54.00 |
| | | EX3DV4 SN: 7540 | D2600V2 SN: 1050 | 2023-10-18 | 56.40 |
| | | | | 2023-10-19 | 56.40 |
| | | Recommended Limit | 57.30 ± 10 % (51.57~63.03) | | |
| | | 2023-10-30 | 55.70 | | |
| 5 250.0 | HSL | EX3DV4 SN: 7540 | D5GHzV2 SN: 1293 | Recommended Limit | 80.50 ± 10 % (72.45~88.55) |
| | | | | 2023-10-18 | 80.60 |
| | | EX3DV4 SN: 7840 | | 2023-10-18 | 79.80 |
| 5 600.0 | HSL | EX3DV4 SN: 7540 | D5GHzV2 SN: 1293 | Recommended Limit | 82.60 ± 10 % (74.34~90.86) |
| | | | | 2023-10-18 | 82.50 |
| | | EX3DV4 SN: 7840 | | 2023-10-19 | 82.20 |
| 5 800.0 | HSL | EX3DV4 SN: 7540 | D5GHzV2 SN: 1293 | Recommended Limit | 80.10 ± 10 % (72.09~88.11) |
| | | | | 2023-10-18 | 75.50 |
| | | EX3DV4 SN: 7840 | | 2023-10-20 | 81.10 |
| | | | | 2023-10-30 | 77.80 |

<Table 2. System Verification Result>

12. SAR Test Results

12.1 Standalone Head SAR Test Results

| GSM 850 Band | | | | | | | | | |
|--------------|--------------|---------------|-----------------|--------------------------------|--------------------------|----------------------|-------------------------|-------------------------|----------|
| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dBm) | Max. Tune-up Power (dBm) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
| Voice | Right Cheek | 0 | 836.6 | 23.24 | 24.00 | 1.191 | 0.085 | 0.101 | |
| | Right Tilt | 0 | 836.6 | 23.24 | 24.00 | 1.191 | 0.062 | 0.074 | |
| | Left Cheek | 0 | 836.6 | 23.24 | 24.00 | 1.191 | 0.141 | 0.168 | |
| | Left Tilt | 0 | 836.6 | 23.24 | 24.00 | 1.191 | 0.107 | 0.127 | |
| GPRS 4Tx | Right Cheek | 0 | 836.6 | 17.66 | 19.50 | 1.528 | 0.108 | 0.165 | |
| | Right Tilt | 0 | 836.6 | 17.66 | 19.50 | 1.528 | 0.086 | 0.131 | |
| | Left Cheek | 0 | 836.6 | 17.66 | 19.50 | 1.528 | 0.155 | 0.237 | 1 |
| | Left Tilt | 0 | 836.6 | 17.66 | 19.50 | 1.528 | 0.118 | 0.180 | |

| GSM 1900 Band | | | | | | | | | |
|---------------|--------------|---------------|-----------------|--------------------------------|--------------------------|----------------------|-------------------------|-------------------------|----------|
| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dBm) | Max. Tune-up Power (dBm) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
| Voice | Right Cheek | 0 | 1 880.0 | 20.41 | 21.00 | 1.146 | 0.037 | 0.042 | |
| | Right Tilt | 0 | 1 880.0 | 20.41 | 21.00 | 1.146 | 0.032 | 0.037 | |
| | Left Cheek | 0 | 1 880.0 | 20.41 | 21.00 | 1.146 | 0.131 | 0.150 | |
| | Left Tilt | 0 | 1 880.0 | 20.41 | 21.00 | 1.146 | 0.072 | 0.083 | |
| GPRS 4Tx | Right Cheek | 0 | 1 880.0 | 16.42 | 17.50 | 1.282 | 0.057 | 0.073 | |
| | Right Tilt | 0 | 1 880.0 | 16.42 | 17.50 | 1.282 | 0.047 | 0.060 | |
| | Left Cheek | 0 | 1 880.0 | 16.42 | 17.50 | 1.282 | 0.187 | 0.240 | 2 |
| | Left Tilt | 0 | 1 880.0 | 16.42 | 17.50 | 1.282 | 0.106 | 0.136 | |

| WCDMA Band II | | | | | | | | | |
|---------------|--------------|---------------|-----------------|---------------------------------|---------------------------|----------------------|-------------------------|-------------------------|----------|
| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dB m) | Max. Tune-up Power (dB m) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
| RMC | Right Cheek | 0 | 1 880.0 | 13.42 | 15.00 | 1.439 | 0.060 | 0.086 | |
| | Right Tilt | 0 | 1 880.0 | 13.42 | 15.00 | 1.439 | 0.034 | 0.049 | |
| | Left Cheek | 0 | 1 880.0 | 13.42 | 15.00 | 1.439 | 0.238 | 0.342 | 3 |
| | Left Tilt | 0 | 1 880.0 | 13.42 | 15.00 | 1.439 | 0.106 | 0.153 | |

WCDMA Band IV

| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dB m) | Max. Tune-up Power (dB m) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
|------|--------------|---------------|-----------------|---------------------------------|---------------------------|----------------------|-------------------------|-------------------------|----------|
| RMC | Right Cheek | 0 | 1 732.4 | 14.01 | 15.00 | 1.256 | 0.056 | 0.070 | |
| | Right Tilt | 0 | 1 732.4 | 14.01 | 15.00 | 1.256 | 0.032 | 0.040 | |
| | Left Cheek | 0 | 1 732.4 | 14.01 | 15.00 | 1.256 | 0.217 | 0.273 | 4 |
| | Left Tilt | 0 | 1 732.4 | 14.01 | 15.00 | 1.256 | 0.108 | 0.136 | |

WCDMA Band V

| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dB m) | Max. Tune-up Power (dB m) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
|------|--------------|---------------|-----------------|---------------------------------|---------------------------|----------------------|-------------------------|-------------------------|----------|
| RMC | Right Cheek | 0 | 836.6 | 17.30 | 18.00 | 1.175 | 0.171 | 0.201 | |
| | Right Tilt | 0 | 836.6 | 17.30 | 18.00 | 1.175 | 0.141 | 0.166 | |
| | Left Cheek | 0 | 836.6 | 17.30 | 18.00 | 1.175 | 0.280 | 0.329 | 5 |
| | Left Tilt | 0 | 836.6 | 17.30 | 18.00 | 1.175 | 0.208 | 0.244 | |

LTE Band 2(Main1)

| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dB m) | Max. Tune-up Power (dB m) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
|------------------------------|--------------|---------------|-----------------|---------------------------------|---------------------------|----------------------|-------------------------|-------------------------|----------|
| QPSK 20 Mhz 1RB 49Offset | Right Cheek | 0 | 1 860.0 | 14.34 | 15.00 | 1.164 | 0.072 | 0.084 | |
| QPSK 20 Mhz 50RB 24Offset | | 0 | 1 860.0 | 14.35 | 15.00 | 1.161 | 0.073 | 0.085 | |
| QPSK 20 Mhz 1RB 49Offset | Right Tilt | 0 | 1 860.0 | 14.34 | 15.00 | 1.164 | 0.039 | 0.045 | |
| QPSK 20 Mhz 50RB 24Offset | | 0 | 1 860.0 | 14.35 | 15.00 | 1.161 | 0.041 | 0.048 | |
| QPSK 20 Mhz 1RB 49Offset | Left Cheek | 0 | 1 860.0 | 14.34 | 15.00 | 1.164 | 0.254 | 0.296 | |
| QPSK 20 Mhz 50RB 24Offset | | 0 | 1 860.0 | 14.35 | 15.00 | 1.161 | 0.255 | 0.296 | 6 |
| QPSK 20 Mhz 1RB 49Offset | Left Tilt | 0 | 1 860.0 | 14.34 | 15.00 | 1.164 | 0.133 | 0.155 | |
| QPSK 20 Mhz 50RB 24Offset | | 0 | 1 860.0 | 14.35 | 15.00 | 1.161 | 0.135 | 0.157 | |

LTE Band 2(Sub1)

| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dB m) | Max. Tune-up Power (dB m) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
|-----------------------------|--------------|---------------|-----------------|---------------------------------|---------------------------|----------------------|-------------------------|-------------------------|----------|
| QPSK 20 MHz 1RB 0Offset | Right Cheek | 0 | 1 860.0 | 14.76 | 15.00 | 1.057 | 0.026 | 0.027 | |
| QPSK 20 MHz 50RB 0Offset | | 0 | 1 860.0 | 14.74 | 15.00 | 1.062 | 0.028 | 0.030 | 7 |
| QPSK 20 MHz 1RB 0Offset | Right Tilt | 0 | 1 860.0 | 14.76 | 15.00 | 1.057 | 0.007 | 0.007 | |
| QPSK 20 MHz 50RB 0Offset | | 0 | 1 860.0 | 14.74 | 15.00 | 1.062 | 0.008 | 0.008 | |
| QPSK 20 MHz 1RB 0Offset | Left Cheek | 0 | 1 860.0 | 14.76 | 15.00 | 1.057 | 0.017 | 0.018 | |
| QPSK 20 MHz 50RB 0Offset | | 0 | 1 860.0 | 14.74 | 15.00 | 1.062 | 0.019 | 0.020 | |
| QPSK 20 MHz 1RB 0Offset | Left Tilt | 0 | 1 860.0 | 14.76 | 15.00 | 1.057 | 0.010 | 0.011 | |
| QPSK 20 MHz 50RB 0Offset | | 0 | 1 860.0 | 14.74 | 15.00 | 1.062 | 0.012 | 0.013 | |

LTE Band 5

| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dB m) | Max. Tune-up Power (dB m) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
|-----------------------------|--------------|---------------|-----------------|---------------------------------|---------------------------|----------------------|-------------------------|-------------------------|----------|
| QPSK 10 MHz 1RB 0Offset | Right Cheek | 0 | 836.5 | 16.35 | 18.00 | 1.462 | 0.160 | 0.234 | |
| QPSK 10 MHz 25RB 0Offset | | 0 | 836.5 | 16.34 | 18.00 | 1.466 | 0.157 | 0.230 | |
| QPSK 10 MHz 1RB 0Offset | Right Tilt | 0 | 836.5 | 16.35 | 18.00 | 1.462 | 0.123 | 0.180 | |
| QPSK 10 MHz 25RB 0Offset | | 0 | 836.5 | 16.34 | 18.00 | 1.466 | 0.123 | 0.180 | |
| QPSK 10 MHz 1RB 0Offset | Left Cheek | 0 | 836.5 | 16.35 | 18.00 | 1.462 | 0.260 | 0.380 | 8 |
| QPSK 10 MHz 25RB 0Offset | | 0 | 836.5 | 16.34 | 18.00 | 1.466 | 0.256 | 0.375 | |
| QPSK 10 MHz 1RB 0Offset | Left Tilt | 0 | 836.5 | 16.35 | 18.00 | 1.462 | 0.195 | 0.285 | |
| QPSK 10 MHz 25RB 0Offset | | 0 | 836.5 | 16.34 | 18.00 | 1.466 | 0.191 | 0.280 | |

LTE Band 12

| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dB m) | Max. Tune-up Power (dB m) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
|-----------------------------|--------------|---------------|-----------------|---------------------------------|---------------------------|----------------------|-------------------------|-------------------------|----------|
| QPSK 10 MHz 1RB 0Offset | Right Cheek | 0 | 707.5 | 15.40 | 17.00 | 1.445 | 0.107 | 0.155 | |
| QPSK 10 MHz 25RB 0Offset | | 0 | 707.5 | 15.38 | 17.00 | 1.452 | 0.110 | 0.160 | |
| QPSK 10 MHz 1RB 0Offset | Right Tilt | 0 | 707.5 | 15.40 | 17.00 | 1.445 | 0.093 | 0.134 | |
| QPSK 10 MHz 25RB 0Offset | | 0 | 707.5 | 15.38 | 17.00 | 1.452 | 0.092 | 0.134 | |
| QPSK 10 MHz 1RB 0Offset | Left Cheek | 0 | 707.5 | 15.40 | 17.00 | 1.445 | 0.247 | 0.357 | |
| QPSK 10 MHz 25RB 0Offset | | 0 | 707.5 | 15.38 | 17.00 | 1.452 | 0.251 | 0.364 | 9 |
| QPSK 10 MHz 1RB 0Offset | Left Tilt | 0 | 707.5 | 15.40 | 17.00 | 1.445 | 0.190 | 0.275 | |
| QPSK 10 MHz 25RB 0Offset | | 0 | 707.5 | 15.38 | 17.00 | 1.452 | 0.192 | 0.279 | |

LTE Band 13

| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dB m) | Max. Tune-up Power (dB m) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
|-----------------------------|--------------|---------------|-----------------|---------------------------------|---------------------------|----------------------|-------------------------|-------------------------|----------|
| QPSK 10 MHz 1RB 0Offset | Right Cheek | 0 | 782.0 | 15.25 | 17.00 | 1.496 | 0.107 | 0.160 | |
| QPSK 10 MHz 25RB 0Offset | | 0 | 782.0 | 15.24 | 17.00 | 1.500 | 0.111 | 0.167 | |
| QPSK 10 MHz 1RB 0Offset | Right Tilt | 0 | 782.0 | 15.25 | 17.00 | 1.496 | 0.080 | 0.120 | |
| QPSK 10 MHz 25RB 0Offset | | 0 | 782.0 | 15.24 | 17.00 | 1.500 | 0.085 | 0.128 | |
| QPSK 10 MHz 1RB 0Offset | Left Cheek | 0 | 782.0 | 15.25 | 17.00 | 1.496 | 0.252 | 0.377 | |
| QPSK 10 MHz 25RB 0Offset | | 0 | 782.0 | 15.24 | 17.00 | 1.500 | 0.255 | 0.383 | 10 |
| QPSK 10 MHz 1RB 0Offset | Left Tilt | 0 | 782.0 | 15.25 | 17.00 | 1.496 | 0.177 | 0.265 | |
| QPSK 10 MHz 25RB 0Offset | | 0 | 782.0 | 15.24 | 17.00 | 1.500 | 0.179 | 0.269 | |

LTE Band 26

| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dB m) | Max. Tune-up Power (dB m) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
|--|--------------|---------------|-----------------|---------------------------------|---------------------------|----------------------|-------------------------|-------------------------|----------|
| QPSK 15 Mhz 1RB 0Offset | Right Cheek | 0 | 831.5 | 16.30 | 18.00 | 1.479 | 0.141 | 0.209 | |
| QPSK 15 Mhz 36RB 0Offset | | 0 | 831.5 | 16.35 | 18.00 | 1.462 | 0.141 | 0.206 | |
| QPSK 15 Mhz 1RB 0Offset | Right Tilt | 0 | 831.5 | 16.30 | 18.00 | 1.479 | 0.115 | 0.170 | |
| QPSK 15 Mhz 36RB 0Offset | | 0 | 831.5 | 16.35 | 18.00 | 1.462 | 0.116 | 0.170 | |
| QPSK 15 Mhz 1RB 0Offset | Left Cheek | 0 | 831.5 | 16.30 | 18.00 | 1.479 | 0.270 | 0.399 | |
| QPSK 15 Mhz 36RB 0Offset | | 0 | 831.5 | 16.35 | 18.00 | 1.462 | 0.275 | 0.402 | 11 |
| QPSK 15 Mhz 1RB 0Offset | Left Tilt | 0 | 831.5 | 16.30 | 18.00 | 1.479 | 0.205 | 0.303 | |
| QPSK 15 Mhz 36RB 0Offset | | 0 | 831.5 | 16.35 | 18.00 | 1.462 | 0.202 | 0.295 | |
| Additional SAR Test(With Keyboard Cover & S-pen) | | | | | | | | | |
| QPSK 15 Mhz 36RB 0Offset | Left Cheek | 0 | 831.5 | 16.35 | 18.00 | 1.462 | 0.190 | 0.278 | |

| LTE Band 41 (Power Class 3) | | | | | | | | | |
|-----------------------------|--------------|---------------|-----------------|---------------------------------|---------------------------|----------------------|-------------------------|-------------------------|----------|
| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dB m) | Max. Tune-up Power (dB m) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
| QPSK 20 MHz 1RB 0Offset | Right Cheek | 0 | 2 636.5 | 11.94 | 12.00 | 1.014 | 0.104 | 0.105 | |
| QPSK 20 MHz 50RB 0Offset | | 0 | 2 636.5 | 11.95 | 12.00 | 1.012 | 0.102 | 0.103 | |
| QPSK 20 MHz 1RB 0Offset | Right Tilt | 0 | 2 636.5 | 11.94 | 12.00 | 1.014 | 0.079 | 0.080 | |
| QPSK 20 MHz 50RB 0Offset | | 0 | 2 636.5 | 11.95 | 12.00 | 1.012 | 0.080 | 0.081 | |
| QPSK 20 MHz 1RB 0Offset | Left Cheek | 0 | 2 636.5 | 11.94 | 12.00 | 1.014 | 0.159 | 0.161 | 12 |
| QPSK 20 MHz 50RB 0Offset | | 0 | 2 636.5 | 11.95 | 12.00 | 1.012 | 0.156 | 0.158 | |
| QPSK 20 MHz 1RB 0Offset | Left Tilt | 0 | 2 636.5 | 11.94 | 12.00 | 1.014 | 0.103 | 0.104 | |
| QPSK 20 MHz 50RB 0Offset | | 0 | 2 636.5 | 11.95 | 12.00 | 1.012 | 0.097 | 0.098 | |

| LTE Band 41 (Power Class 2) | | | | | | | | |
|-----------------------------|--------------|---------------|-----------------|---------------------------------|---------------------------|----------------------|-------------------------|-------------------------|
| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dB m) | Max. Tune-up Power (dB m) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) |
| QPSK 20 MHz 1RB 0Offset | Left Cheek | 0 | 2 636.5 | 11.93 | 12.00 | 1.016 | 0.108 | 0.110 |

Note: Per May 2017 TCB Workshop, 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.

| LTE Band 41 PC3 vs PC2 linearity result | | | | | | |
|---|-----------------------------|---------------------|-----------------------------|---------------------|---------------------------------|----------|
| Exposure Condition | LTE Band 41 PC3 | | LTE Band 41 PC2 | | PC 2 linearly Scaled SAR [W/kg] | Dev. [%] |
| | Maximum Tune-up Power [dBm] | Reported SAR [W/kg] | Maximum Tune-up Power [dBm] | Reported SAR [W/kg] | | |
| Head | 12.0 | 0.161 | 12.0 | 0.110 | 0.161 | -0.12 |

Note: The linearity between the Power Class 2 and Power Class 3 SAR results and the respective frame averaged powers was calculated to determine that the results were linear.

Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes was < 10% and all reported SAR values were < 1.4 W/kg for 1g.

| LTE Band 66 | | | | | | | | | |
|-----------------------------|--------------|---------------|-----------------|---------------------------------|---------------------------|----------------------|-------------------------|-------------------------|----------|
| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dB m) | Max. Tune-up Power (dB m) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
| QPSK 20 Mhz 1RB 49Offset | Right Cheek | 0 | 1 745.0 | 11.31 | 13.00 | 1.476 | 0.030 | 0.044 | |
| QPSK 20 Mhz 50RB 0Offset | | 0 | 1 745.0 | 11.25 | 13.00 | 1.496 | 0.034 | 0.051 | |
| QPSK 20 Mhz 1RB 49Offset | Right Tilt | 0 | 1 745.0 | 11.31 | 13.00 | 1.476 | 0.017 | 0.025 | |
| QPSK 20 Mhz 50RB 0Offset | | 0 | 1 745.0 | 11.25 | 13.00 | 1.496 | 0.036 | 0.054 | |
| QPSK 20 Mhz 1RB 49Offset | Left Cheek | 0 | 1 745.0 | 11.31 | 13.00 | 1.476 | 0.087 | 0.128 | |
| QPSK 20 Mhz 50RB 0Offset | | 0 | 1 745.0 | 11.25 | 13.00 | 1.496 | 0.091 | 0.136 | 13 |
| QPSK 20 Mhz 1RB 49Offset | Left Tilt | 0 | 1 745.0 | 11.31 | 13.00 | 1.476 | 0.053 | 0.078 | |
| QPSK 20 Mhz 50RB 0Offset | | 0 | 1 745.0 | 11.25 | 13.00 | 1.496 | 0.056 | 0.084 | |

| 5G NR n5 | | | | | | | | | |
|--|--------------|---------------|-----------------|--------------------------------|--------------------------|----------------------|-------------------------|-------------------------|----------|
| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dBm) | Max. Tune-up Power (dBm) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 Mhz 1RB 53offset | Right Cheek | 0 | 836.5 | 16.56 | 18.00 | 1.393 | 0.148 | 0.206 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 Mhz 50RB 28offset | | 0 | 836.5 | 16.53 | 18.00 | 1.403 | 0.143 | 0.201 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 Mhz 1RB 53offset | Right Tilt | 0 | 836.5 | 16.56 | 18.00 | 1.393 | 0.126 | 0.176 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 Mhz 50RB 28offset | | 0 | 836.5 | 16.53 | 18.00 | 1.403 | 0.119 | 0.167 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 Mhz 1RB 53offset | Left Cheek | 0 | 836.5 | 16.56 | 18.00 | 1.393 | 0.246 | 0.343 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 Mhz 50RB 28offset | | 0 | 836.5 | 16.53 | 18.00 | 1.403 | 0.246 | 0.345 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 Mhz 1RB 53offset | Left Tilt | 0 | 836.5 | 16.56 | 18.00 | 1.393 | 0.178 | 0.248 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 Mhz 50RB 28offset | | 0 | 836.5 | 16.53 | 18.00 | 1.403 | 0.179 | 0.251 | |
| CP-OFDM_QPSK SCS 15 kHz_20 Mhz 1RB 1offset | Left Cheek | 0 | 836.5 | 16.42 | 18.00 | 1.439 | 0.279 | 0.401 | 14 |

5G NR n66

| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dBm) | Max. Tune-up Power (dBm) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
|---|--------------|---------------|-----------------|--------------------------------|--------------------------|----------------------|-------------------------|-------------------------|----------|
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 1offset | Right Cheek | 0 | 1 745.0 | 11.69 | 13.00 | 1.352 | 0.058 | 0.078 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 0offset | | 0 | 1 745.0 | 11.64 | 13.00 | 1.368 | 0.058 | 0.079 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 1offset | Right Tilt | 0 | 1 745.0 | 11.69 | 13.00 | 1.352 | 0.033 | 0.045 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 0offset | | 0 | 1 745.0 | 11.64 | 13.00 | 1.368 | 0.033 | 0.045 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 1offset | Left Cheek | 0 | 1 745.0 | 11.69 | 13.00 | 1.352 | 0.207 | 0.280 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 0offset | | 0 | 1 745.0 | 11.64 | 13.00 | 1.368 | 0.210 | 0.287 | 15 |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 1offset | Left Tilt | 0 | 1 745.0 | 11.69 | 13.00 | 1.352 | 0.111 | 0.150 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 0offset | | 0 | 1 745.0 | 11.64 | 13.00 | 1.368 | 0.109 | 0.149 | |
| CP-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 1offset | Left Cheek | 0 | 1 745.0 | 11.69 | 13.00 | 1.352 | 0.211 | 0.285 | |

WLAN 2.4 GHz

| Ant./ Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dBm) | Max. Tune-up Power (dBm) | Power Scaling Factor | Duty Cycle Compensate Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
|------------------|--------------|---------------|-----------------|--------------------------------|--------------------------|----------------------|------------------------------|-------------------------|-------------------------|----------|
| Ant.1 802.11b | Right Cheek | 0 | 2 412.0 | 9.96 | 10.50 | 1.132 | 1.013 | 0.013 | 0.015 | 16 |
| | Right Tilt | 0 | 2 412.0 | 9.96 | 10.50 | 1.132 | 1.013 | 0.005 | 0.006 | |
| | Left Cheek | 0 | 2 412.0 | 9.96 | 10.50 | 1.132 | 1.013 | 0.000 | 0.000 | |
| | Left Tilt | 0 | 2 412.0 | 9.96 | 10.50 | 1.132 | 1.013 | 0.000 | 0.000 | |
| MIMO 802.11b | Right Cheek | 0 | 2 462.0 | 9.68 | 10.50 | 1.208 | 1.013 | 0.151 | 0.185 | 17 |
| | Right Tilt | 0 | 2 462.0 | 9.68 | 10.50 | 1.208 | 1.013 | 0.095 | 0.116 | |
| | Left Cheek | 0 | 2 462.0 | 9.68 | 10.50 | 1.208 | 1.013 | 0.060 | 0.073 | |
| | Left Tilt | 0 | 2 462.0 | 9.68 | 10.50 | 1.208 | 1.013 | 0.044 | 0.054 | |

U-NII-2A

| Ant./ Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dBm) | Max. Tune-up Power (dBm) | Power Scaling Factor | Duty Cycle Compensate Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
|------------------|--------------|---------------|-----------------|--------------------------------|--------------------------|----------------------|------------------------------|-------------------------|-------------------------|----------|
| Ant.2 802.11a | Right Cheek | 0 | 5 320.0 | 5.65 | 6.50 | 1.216 | 1.065 | 0.064 | 0.083 | |
| | Right Tilt | 0 | 5 320.0 | 5.65 | 6.50 | 1.216 | 1.065 | 0.068 | 0.088 | 18 |
| | Left Cheek | 0 | 5 320.0 | 5.65 | 6.50 | 1.216 | 1.065 | 0.022 | 0.028 | |
| | Left Tilt | 0 | 5 320.0 | 5.65 | 6.50 | 1.216 | 1.065 | 0.024 | 0.031 | |
| MIMO 802.11a | Right Cheek | 0 | 5 320.0 | 5.43 | 6.50 | 1.279 | 1.059 | 0.042 | 0.057 | |
| | Right Tilt | 0 | 5 320.0 | 5.43 | 6.50 | 1.279 | 1.059 | 0.045 | 0.061 | 19 |
| | Left Cheek | 0 | 5 320.0 | 5.43 | 6.50 | 1.279 | 1.059 | 0.017 | 0.023 | |
| | Left Tilt | 0 | 5 320.0 | 5.43 | 6.50 | 1.279 | 1.059 | 0.023 | 0.031 | |

U-NII-2C

| Ant./ Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dBm) | Max. Tune-up Power (dBm) | Power Scaling Factor | Duty Cycle Compensate Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
|------------------|--------------|---------------|-----------------|--------------------------------|--------------------------|----------------------|------------------------------|-------------------------|-------------------------|----------|
| Ant.2 802.11a | Right Cheek | 0 | 5 500.0 | 5.38 | 6.50 | 1.294 | 1.065 | 0.180 | 0.248 | 20 |
| | Right Tilt | 0 | 5 500.0 | 5.38 | 6.50 | 1.294 | 1.065 | 0.175 | 0.241 | |
| | Left Cheek | 0 | 5 500.0 | 5.38 | 6.50 | 1.294 | 1.065 | 0.087 | 0.120 | |
| | Left Tilt | 0 | 5 500.0 | 5.38 | 6.50 | 1.294 | 1.065 | 0.109 | 0.150 | |
| MIMO 802.11a | Right Cheek | 0 | 5 720.0 | 5.83 | 6.50 | 1.167 | 1.059 | 0.106 | 0.131 | 21 |
| | Right Tilt | 0 | 5 720.0 | 5.83 | 6.50 | 1.167 | 1.059 | 0.095 | 0.117 | |
| | Left Cheek | 0 | 5 720.0 | 5.83 | 6.50 | 1.167 | 1.059 | 0.058 | 0.072 | |
| | Left Tilt | 0 | 5 720.0 | 5.83 | 6.50 | 1.167 | 1.059 | 0.066 | 0.082 | |

U-NII-3

| Ant./ Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dBm) | Max. Tune-up Power (dBm) | Power Scaling Factor | Duty Cycle Compensate Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
|------------------|--------------|---------------|-----------------|--------------------------------|--------------------------|----------------------|------------------------------|-------------------------|-------------------------|----------|
| Ant.2 802.11a | Right Cheek | 0 | 5 785.0 | 5.99 | 6.50 | 1.125 | 1.065 | 0.237 | 0.284 | 22 |
| | Right Tilt | 0 | 5 785.0 | 5.99 | 6.50 | 1.125 | 1.065 | 0.168 | 0.201 | |
| | Left Cheek | 0 | 5 785.0 | 5.99 | 6.50 | 1.125 | 1.065 | 0.125 | 0.150 | |
| | Left Tilt | 0 | 5 785.0 | 5.99 | 6.50 | 1.125 | 1.065 | 0.129 | 0.155 | |
| MIMO 802.11a | Right Cheek | 0 | 5 745.0 | 4.71 | 6.50 | 1.510 | 1.059 | 0.183 | 0.293 | 23 |
| | Right Tilt | 0 | 5 745.0 | 4.71 | 6.50 | 1.510 | 1.059 | 0.163 | 0.261 | |
| | Left Cheek | 0 | 5 745.0 | 4.71 | 6.50 | 1.510 | 1.059 | 0.100 | 0.160 | |
| | Left Tilt | 0 | 5 745.0 | 4.71 | 6.50 | 1.510 | 1.059 | 0.100 | 0.160 | |

Bluetooth

| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dBm) | Max. Tune-up Power (dBm) | Power Scaling Factor | Duty Cycle Compensate Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
|---------------------------|--------------|---------------|-----------------|--------------------------------|--------------------------|----------------------|------------------------------|-------------------------|-------------------------|----------|
| LE 125 Coded 255 | Right Cheek | 0 | 2 402.0 | 11.19 | 12.00 | 1.205 | 1.027 | 0.021 | 0.026 | 24 |
| | Right Tilt | 0 | 2 402.0 | 11.19 | 12.00 | 1.205 | 1.027 | 0.006 | 0.007 | |
| | Left Cheek | 0 | 2 402.0 | 11.19 | 12.00 | 1.205 | 1.027 | 0.006 | 0.007 | |
| | Left Tilt | 0 | 2 402.0 | 11.19 | 12.00 | 1.205 | 1.027 | 0.002 | 0.002 | |

12.2 Standalone Body SAR Test Results

| GSM 850 Band | | | | | | | | | |
|--------------|-----------------|---------------|-----------------|--------------------------------|--------------------------|----------------------|-------------------------|-------------------------|----------|
| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dBm) | Max. Tune-up Power (dBm) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
| GPRS 4Tx | Grip Sensor off | | | | | | | | |
| | Rear | 19 | 836.6 | 27.73 | 29.60 | 1.538 | 0.357 | 0.549 | |
| | Right | 7 | 836.6 | 27.73 | 29.60 | 1.538 | 0.358 | 0.551 | 25 |
| | Top | 14 | 836.6 | 27.73 | 29.60 | 1.538 | 0.259 | 0.398 | |
| | Grip Sensor on | | | | | | | | |
| | Rear | 0 | 836.6 | 17.66 | 19.50 | 1.528 | 0.229 | 0.350 | |
| | Right | 0 | 836.6 | 17.66 | 19.50 | 1.528 | 0.098 | 0.150 | |
| Top | 0 | 836.6 | 17.66 | 19.50 | 1.528 | 0.074 | 0.113 | | |

| GSM 1900 Band | | | | | | | | | |
|---------------|-----------------|---------------|-----------------|--------------------------------|--------------------------|----------------------|-------------------------|-------------------------|----------|
| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dBm) | Max. Tune-up Power (dBm) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
| GPRS 4Tx | Grip Sensor off | | | | | | | | |
| | Rear | 19 | 1 880.0 | 26.34 | 27.50 | 1.306 | 0.236 | 0.308 | |
| | Right | 7 | 1 880.0 | 26.34 | 27.50 | 1.306 | 0.175 | 0.229 | |
| | Top | 14 | 1 880.0 | 26.34 | 27.50 | 1.306 | 0.166 | 0.217 | |
| | Grip Sensor on | | | | | | | | |
| | Rear | 0 | 1 880.0 | 16.42 | 17.50 | 1.282 | 0.491 | 0.629 | 26 |
| | Right | 0 | 1 880.0 | 16.42 | 17.50 | 1.282 | 0.048 | 0.062 | |
| Top | 0 | 1 880.0 | 16.42 | 17.50 | 1.282 | 0.128 | 0.164 | | |

| WCDMA Band II | | | | | | | | | |
|---------------|-----------------|---------------|-----------------|---------------------------------|---------------------------|----------------------|-------------------------|-------------------------|----------|
| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dB m) | Max. Tune-up Power (dB m) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
| RMC | Grip Sensor off | | | | | | | | |
| | Rear | 19 | 1 880.0 | 23.44 | 24.50 | 1.276 | 0.290 | 0.370 | |
| | Right | 7 | 1 880.0 | 23.44 | 24.50 | 1.276 | 0.399 | 0.509 | |
| | Top | 14 | 1 880.0 | 23.44 | 24.50 | 1.276 | 0.060 | 0.077 | |
| | Grip Sensor on | | | | | | | | |
| | Rear | 0 | 1 880.0 | 13.42 | 15.00 | 1.439 | 0.504 | 0.725 | 27 |
| | Right | 0 | 1 880.0 | 13.42 | 15.00 | 1.439 | 0.087 | 0.125 | |
| Top | 0 | 1 880.0 | 13.42 | 15.00 | 1.439 | 0.025 | 0.036 | | |

WCDMA Band IV

| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dB m) | Max. Tune-up Power (dB m) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
|------|-----------------|---------------|-----------------|---------------------------------|---------------------------|----------------------|-------------------------|-------------------------|----------|
| RMC | Grip Sensor off | | | | | | | | |
| | Rear | 19 | 1 732.4 | 24.04 | 24.50 | 1.112 | 0.323 | 0.359 | |
| | Right | 7 | 1 732.4 | 24.04 | 24.50 | 1.112 | 0.565 | 0.628 | |
| | Top | 14 | 1 732.4 | 24.04 | 24.50 | 1.112 | 0.050 | 0.056 | |
| | Grip Sensor on | | | | | | | | |
| | Rear | 0 | 1 732.4 | 14.01 | 15.00 | 1.256 | 0.606 | 0.761 | 28 |
| | Right | 0 | 1 732.4 | 14.01 | 15.00 | 1.256 | 0.135 | 0.170 | |
| Top | 0 | 1 732.4 | 14.01 | 15.00 | 1.256 | 0.033 | 0.041 | | |

WCDMA Band V

| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dB m) | Max. Tune-up Power (dB m) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
|------|-----------------|---------------|-----------------|---------------------------------|---------------------------|----------------------|-------------------------|-------------------------|----------|
| RMC | Grip Sensor off | | | | | | | | |
| | Rear | 19 | 836.6 | 24.21 | 24.50 | 1.069 | 0.477 | 0.510 | 29 |
| | Right | 7 | 836.6 | 24.21 | 24.50 | 1.069 | 0.473 | 0.506 | |
| | Top | 14 | 836.6 | 24.21 | 24.50 | 1.069 | 0.316 | 0.338 | |
| | Grip Sensor on | | | | | | | | |
| | Rear | 0 | 836.6 | 17.30 | 18.00 | 1.175 | 0.401 | 0.471 | |
| | Right | 0 | 836.6 | 17.30 | 18.00 | 1.175 | 0.176 | 0.207 | |
| Top | 0 | 836.6 | 17.30 | 18.00 | 1.175 | 0.111 | 0.130 | | |

LTE Band 2(Main1)

| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dB m) | Max. Tune-up Power (dB m) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
|------------------------------|--------------|---------------|-----------------|---------------------------------|---------------------------|----------------------|-------------------------|-------------------------|----------|
| Grip Sensor off | | | | | | | | | |
| QPSK 20 Mhz 1RB 49Offset | Rear | 19 | 1 860.0 | 23.93 | 25.00 | 1.279 | 0.248 | 0.317 | |
| QPSK 20 Mhz 50RB 24Offset | | 19 | 1 860.0 | 23.00 | 24.00 | 1.259 | 0.196 | 0.247 | |
| QPSK 20 Mhz 1RB 49Offset | Right | 7 | 1 860.0 | 23.93 | 25.00 | 1.279 | 0.376 | 0.481 | |
| QPSK 20 Mhz 50RB 24Offset | | 7 | 1 860.0 | 23.00 | 24.00 | 1.259 | 0.310 | 0.390 | |
| QPSK 20 Mhz 1RB 49Offset | Top | 14 | 1 860.0 | 23.93 | 25.00 | 1.279 | 0.071 | 0.091 | |
| QPSK 20 Mhz 50RB 24Offset | | 14 | 1 860.0 | 23.00 | 24.00 | 1.259 | 0.054 | 0.068 | |
| Grip Sensor on | | | | | | | | | |
| QPSK 20 Mhz 1RB 49Offset | Rear | 0 | 1 860.0 | 14.34 | 15.00 | 1.164 | 0.475 | 0.553 | |
| QPSK 20 Mhz 50RB 24Offset | | 0 | 1 860.0 | 14.35 | 15.00 | 1.161 | 0.501 | 0.582 | 30 |
| QPSK 20 Mhz 1RB 49Offset | Right | 0 | 1 860.0 | 14.34 | 15.00 | 1.164 | 0.082 | 0.095 | |
| QPSK 20 Mhz 50RB 24Offset | | 0 | 1 860.0 | 14.35 | 15.00 | 1.161 | 0.089 | 0.103 | |
| QPSK 20 Mhz 1RB 49Offset | Top | 0 | 1 860.0 | 14.34 | 15.00 | 1.164 | 0.024 | 0.028 | |
| QPSK 20 Mhz 50RB 24Offset | | 0 | 1 860.0 | 14.35 | 15.00 | 1.161 | 0.022 | 0.026 | |

LTE Band 2(Sub1)

| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dB m) | Max. Tune-up Power (dB m) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
|------------------------------|--------------|---------------|-----------------|---------------------------------|---------------------------|----------------------|-------------------------|-------------------------|----------|
| Grip Sensor off | | | | | | | | | |
| QPSK 20 Mhz 1RB 49Offset | Rear | 19 | 1 860.0 | 24.37 | 25.00 | 1.156 | 0.194 | 0.224 | |
| QPSK 20 Mhz 50RB 24Offset | | 19 | 1 860.0 | 23.47 | 24.00 | 1.130 | 0.155 | 0.175 | |
| QPSK 20 Mhz 1RB 49Offset | Right | 7 | 1 860.0 | 24.37 | 25.00 | 1.156 | 0.474 | 0.548 | 31 |
| QPSK 20 Mhz 50RB 24Offset | | 7 | 1 860.0 | 23.47 | 24.00 | 1.130 | 0.382 | 0.432 | |
| QPSK 20 Mhz 1RB 49Offset | Bottom | 15 | 1 860.0 | 24.37 | 25.00 | 1.156 | 0.228 | 0.264 | |
| QPSK 20 Mhz 50RB 24Offset | | 15 | 1 860.0 | 23.47 | 24.00 | 1.130 | 0.176 | 0.199 | |
| Grip Sensor on | | | | | | | | | |
| QPSK 20 Mhz 1RB 0Offset | Rear | 0 | 1 860.0 | 14.76 | 15.00 | 1.057 | 0.450 | 0.476 | |
| QPSK 20 Mhz 50RB 0Offset | | 0 | 1 860.0 | 14.74 | 15.00 | 1.062 | 0.471 | 0.500 | |
| QPSK 20 Mhz 1RB 0Offset | Right | 0 | 1 860.0 | 14.76 | 15.00 | 1.057 | 0.124 | 0.131 | |
| QPSK 20 Mhz 50RB 0Offset | | 0 | 1 860.0 | 14.74 | 15.00 | 1.062 | 0.126 | 0.134 | |
| QPSK 20 Mhz 1RB 0Offset | Bottom | 0 | 1 860.0 | 14.76 | 15.00 | 1.057 | 0.252 | 0.266 | |
| QPSK 20 Mhz 50RB 0Offset | | 0 | 1 860.0 | 14.74 | 15.00 | 1.062 | 0.244 | 0.259 | |

LTE Band 5

| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dB m) | Max. Tune-up Power (dB m) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
|-----------------------------|--------------|---------------|-----------------|---------------------------------|---------------------------|----------------------|-------------------------|-------------------------|----------|
| Grip Sensor off | | | | | | | | | |
| QPSK 10 Mhz 1RB 0Offset | Rear | 19 | 836.5 | 24.09 | 25.00 | 1.233 | 0.471 | 0.581 | |
| QPSK 10 Mhz 25RB 0Offset | | 19 | 836.5 | 23.25 | 24.00 | 1.189 | 0.371 | 0.441 | |
| QPSK 10 Mhz 1RB 0Offset | Right | 7 | 836.5 | 24.09 | 25.00 | 1.233 | 0.473 | 0.583 | 32 |
| QPSK 10 Mhz 25RB 0Offset | | 7 | 836.5 | 23.25 | 24.00 | 1.189 | 0.363 | 0.432 | |
| QPSK 10 Mhz 1RB 0Offset | Top | 14 | 836.5 | 24.09 | 25.00 | 1.233 | 0.288 | 0.355 | |
| QPSK 10 Mhz 25RB 0Offset | | 14 | 836.5 | 23.25 | 24.00 | 1.189 | 0.229 | 0.272 | |
| Grip Sensor on | | | | | | | | | |
| QPSK 10 Mhz 1RB 0Offset | Rear | 0 | 836.5 | 16.35 | 18.00 | 1.462 | 0.337 | 0.493 | |
| QPSK 10 Mhz 25RB 0Offset | | 0 | 836.5 | 16.34 | 18.00 | 1.466 | 0.325 | 0.476 | |
| QPSK 10 Mhz 1RB 0Offset | Right | 0 | 836.5 | 16.35 | 18.00 | 1.462 | 0.127 | 0.186 | |
| QPSK 10 Mhz 25RB 0Offset | | 0 | 836.5 | 16.34 | 18.00 | 1.466 | 0.122 | 0.179 | |
| QPSK 10 Mhz 1RB 0Offset | Top | 0 | 836.5 | 16.35 | 18.00 | 1.462 | 0.099 | 0.145 | |
| QPSK 10 Mhz 25RB 0Offset | | 0 | 836.5 | 16.34 | 18.00 | 1.466 | 0.095 | 0.139 | |

LTE Band 12

| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dB m) | Max. Tune-up Power (dB m) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
|-----------------------------|--------------|---------------|-----------------|---------------------------------|---------------------------|----------------------|-------------------------|-------------------------|----------|
| Grip Sensor off | | | | | | | | | |
| QPSK 10 MHz 1RB 0Offset | Rear | 19 | 707.5 | 24.07 | 25.50 | 1.390 | 0.224 | 0.311 | |
| QPSK 10 MHz 25RB 0Offset | | 19 | 707.5 | 23.20 | 24.50 | 1.349 | 0.173 | 0.233 | |
| QPSK 10 MHz 1RB 0Offset | Right | 7 | 707.5 | 24.07 | 25.50 | 1.390 | 0.132 | 0.183 | |
| QPSK 10 MHz 25RB 0Offset | | 7 | 707.5 | 23.20 | 24.50 | 1.349 | 0.108 | 0.146 | |
| QPSK 10 MHz 1RB 0Offset | Top | 14 | 707.5 | 24.07 | 25.50 | 1.390 | 0.261 | 0.363 | |
| QPSK 10 MHz 25RB 0Offset | | 14 | 707.5 | 23.20 | 24.50 | 1.349 | 0.205 | 0.277 | |
| Grip Sensor on | | | | | | | | | |
| QPSK 10 MHz 1RB 0Offset | Rear | 0 | 707.5 | 15.40 | 17.00 | 1.445 | 0.294 | 0.425 | |
| QPSK 10 MHz 25RB 0Offset | | 0 | 707.5 | 15.38 | 17.00 | 1.452 | 0.302 | 0.439 | 33 |
| QPSK 10 MHz 1RB 0Offset | Right | 0 | 707.5 | 15.40 | 17.00 | 1.445 | 0.082 | 0.118 | |
| QPSK 10 MHz 25RB 0Offset | | 0 | 707.5 | 15.38 | 17.00 | 1.452 | 0.086 | 0.125 | |
| QPSK 10 MHz 1RB 0Offset | Top | 0 | 707.5 | 15.40 | 17.00 | 1.445 | 0.168 | 0.243 | |
| QPSK 10 MHz 25RB 0Offset | | 0 | 707.5 | 15.38 | 17.00 | 1.452 | 0.166 | 0.241 | |

LTE Band 13

| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dB m) | Max. Tune-up Power (dB m) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
|-----------------------------|--------------|---------------|-----------------|---------------------------------|---------------------------|----------------------|-------------------------|-------------------------|----------|
| Grip Sensor off | | | | | | | | | |
| QPSK 10 Mhz 1RB 0Offset | Rear | 19 | 782.0 | 23.78 | 25.00 | 1.324 | 0.229 | 0.303 | |
| QPSK 10 Mhz 25RB 0Offset | | 19 | 782.0 | 22.91 | 24.00 | 1.285 | 0.191 | 0.245 | |
| QPSK 10 Mhz 1RB 0Offset | Right | 7 | 782.0 | 23.78 | 25.00 | 1.324 | 0.179 | 0.237 | |
| QPSK 10 Mhz 25RB 0Offset | | 7 | 782.0 | 22.91 | 24.00 | 1.285 | 0.157 | 0.202 | |
| QPSK 10 Mhz 1RB 0Offset | Top | 14 | 782.0 | 23.78 | 25.00 | 1.324 | 0.198 | 0.262 | |
| QPSK 10 Mhz 25RB 0Offset | | 14 | 782.0 | 22.91 | 24.00 | 1.285 | 0.161 | 0.207 | |
| Grip Sensor on | | | | | | | | | |
| QPSK 10 Mhz 1RB 0Offset | Rear | 0 | 782.0 | 15.25 | 17.00 | 1.496 | 0.293 | 0.438 | |
| QPSK 10 Mhz 25RB 0Offset | | 0 | 782.0 | 15.24 | 17.00 | 1.500 | 0.319 | 0.479 | 34 |
| QPSK 10 Mhz 1RB 0Offset | Right | 0 | 782.0 | 15.25 | 17.00 | 1.496 | 0.114 | 0.171 | |
| QPSK 10 Mhz 25RB 0Offset | | 0 | 782.0 | 15.24 | 17.00 | 1.500 | 0.115 | 0.173 | |
| QPSK 10 Mhz 1RB 0Offset | Top | 0 | 782.0 | 15.25 | 17.00 | 1.496 | 0.114 | 0.171 | |
| QPSK 10 Mhz 25RB 0Offset | | 0 | 782.0 | 15.24 | 17.00 | 1.500 | 0.110 | 0.165 | |

LTE Band 26

| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dB m) | Max. Tune-up Power (dB m) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
|-----------------------------|--------------|---------------|-----------------|---------------------------------|---------------------------|----------------------|-------------------------|-------------------------|----------|
| Grip Sensor off | | | | | | | | | |
| QPSK 15 Mhz 1RB 0Offset | Rear | 19 | 831.5 | 23.94 | 25.00 | 1.276 | 0.471 | 0.601 | 35 |
| QPSK 15 Mhz 36RB 0Offset | | 19 | 831.5 | 23.05 | 24.00 | 1.245 | 0.376 | 0.468 | |
| QPSK 15 Mhz 1RB 0Offset | Right | 7 | 831.5 | 23.94 | 25.00 | 1.276 | 0.460 | 0.587 | |
| QPSK 15 Mhz 36RB 0Offset | | 7 | 831.5 | 23.05 | 24.00 | 1.245 | 0.344 | 0.428 | |
| QPSK 15 Mhz 1RB 0Offset | Top | 14 | 831.5 | 23.94 | 25.00 | 1.276 | 0.370 | 0.472 | |
| QPSK 15 Mhz 36RB 0Offset | | 14 | 831.5 | 23.05 | 24.00 | 1.245 | 0.275 | 0.342 | |
| Grip Sensor on | | | | | | | | | |
| QPSK 15 Mhz 1RB 0Offset | Rear | 0 | 831.5 | 16.30 | 18.00 | 1.479 | 0.363 | 0.537 | |
| QPSK 15 Mhz 36RB 0Offset | | 0 | 831.5 | 16.35 | 18.00 | 1.462 | 0.354 | 0.518 | |
| QPSK 15 Mhz 1RB 0Offset | Right | 0 | 831.5 | 16.30 | 18.00 | 1.479 | 0.146 | 0.216 | |
| QPSK 15 Mhz 36RB 0Offset | | 0 | 831.5 | 16.35 | 18.00 | 1.462 | 0.142 | 0.208 | |
| QPSK 15 Mhz 1RB 0Offset | Top | 0 | 831.5 | 16.30 | 18.00 | 1.479 | 0.115 | 0.170 | |
| QPSK 15 Mhz 36RB 0Offset | | 0 | 831.5 | 16.35 | 18.00 | 1.462 | 0.109 | 0.159 | |

LTE Band 41(Power Class 3)

| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dB m) | Max. Tune-up Power (dB m) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
|------------------------------|--------------|---------------|-----------------|---------------------------------|---------------------------|----------------------|-------------------------|-------------------------|----------|
| Grip Sensor off | | | | | | | | | |
| QPSK 20 Mhz 1RB 49Offset | Rear | 18 | 2 680.0 | 24.41 | 25.00 | 1.146 | 0.444 | 0.509 | |
| QPSK 20 Mhz 50RB 0Offset | | 18 | 2 680.0 | 23.49 | 24.00 | 1.125 | 0.361 | 0.406 | |
| QPSK 20 Mhz 1RB 49Offset | Right | 0 | 2 680.0 | 24.41 | 25.00 | 1.146 | 0.264 | 0.303 | |
| QPSK 20 Mhz 50RB 0Offset | | 0 | 2 680.0 | 23.49 | 24.00 | 1.125 | 0.204 | 0.230 | |
| QPSK 20 Mhz 1RB 49Offset | Top | 14 | 2 680.0 | 24.41 | 25.00 | 1.146 | 0.633 | 0.725 | 36 |
| | | 14 | 2 506.0 | 23.90 | 25.00 | 1.288 | 0.486 | 0.626 | |
| | | 14 | 2 549.5 | 24.10 | 25.00 | 1.230 | 0.380 | 0.467 | |
| | | 14 | 2 593.0 | 23.79 | 25.00 | 1.321 | 0.449 | 0.593 | |
| | | 14 | 2 636.5 | 24.35 | 25.00 | 1.161 | 0.542 | 0.629 | |
| QPSK 20 Mhz 50RB 0Offset | | 14 | 2 680.0 | 23.49 | 24.00 | 1.125 | 0.528 | 0.594 | |
| QPSK 20 Mhz 100RB 0Offset | | 14 | 2 680.0 | 23.47 | 24.00 | 1.130 | 0.509 | 0.575 | |
| Grip Sensor on | | | | | | | | | |
| QPSK 20 Mhz 1RB 0Offset | Rear | 0 | 2 636.5 | 11.94 | 12.00 | 1.014 | 0.460 | 0.466 | |
| QPSK 20 Mhz 50RB 0Offset | | 0 | 2 636.5 | 11.95 | 12.00 | 1.012 | 0.466 | 0.472 | |
| QPSK 20 Mhz 1RB 0Offset | Top | 0 | 2 636.5 | 11.94 | 12.00 | 1.014 | 0.145 | 0.147 | |
| QPSK 20 Mhz 50RB 0Offset | | 0 | 2 636.5 | 11.95 | 12.00 | 1.012 | 0.148 | 0.150 | |

| LTE Band 41 (Power Class 2) | | | | | | | | |
|------------------------------------|---------------------|----------------------|------------------------|--|----------------------------------|-----------------------------|--------------------------------|--------------------------------|
| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dB m) | Max. Tune-up Power (dB m) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) |
| QPSK 20 MHz 1RB 0Offset | Top | 14 | 2 680.0 | 26.31 | 27.00 | 1.172 | 0.692 | 0.811 |

Note: Per May 2017 TCB Workshop, 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.

| LTE Band 41 PC3 vs PC2 linearity result | | | | | | |
|--|------------------------------------|----------------------------|------------------------------------|----------------------------|--|-----------------|
| Exposure Condition | LTE Band 41 PC3 | | LTE Band 41 PC2 | | PC 2 linearly Scaled SAR [W/kg] | Dev. [%] |
| | Maximum Tune-up Power [dBm] | Reported SAR [W/kg] | Maximum Tune-up Power [dBm] | Reported SAR [W/kg] | | |
| Body | 25.0 | 0.725 | 27.0 | 0.811 | 0.748 | 3.18 |

Note: The linearity between the Power Class 2 and Power Class 3 SAR results and the respective frame averaged powers was calculated to determine that the results were linear.

Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes was < 10% and all reported SAR values were < 1.4 W/kg for 1g.



LTE Band 66

| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dB m) | Max. Tune-up Power (dB m) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
|-----------------------------|--------------|---------------|-----------------|---------------------------------|---------------------------|----------------------|-------------------------|-------------------------|----------|
| Grip Sensor off | | | | | | | | | |
| QPSK 20 Mhz 1RB 49Offset | Rear | 19 | 1 745.0 | 24.48 | 25.50 | 1.265 | 0.381 | 0.482 | |
| QPSK 20 Mhz 50RB 0Offset | | 19 | 1 745.0 | 23.42 | 24.50 | 1.282 | 0.307 | 0.394 | |
| QPSK 20 Mhz 1RB 49Offset | Right | 7 | 1 745.0 | 24.48 | 25.50 | 1.265 | 0.571 | 0.722 | 37 |
| QPSK 20 Mhz 50RB 0Offset | | 7 | 1 745.0 | 23.42 | 24.50 | 1.282 | 0.469 | 0.601 | |
| QPSK 20 Mhz 1RB 49Offset | Top | 14 | 1 745.0 | 24.48 | 25.50 | 1.265 | 0.058 | 0.073 | |
| QPSK 20 Mhz 50RB 0Offset | | 14 | 1 745.0 | 23.42 | 24.50 | 1.282 | 0.061 | 0.078 | |
| Grip Sensor on | | | | | | | | | |
| QPSK 20 Mhz 1RB 49Offset | Rear | 0 | 1 745.0 | 11.31 | 13.00 | 1.476 | 0.235 | 0.347 | |
| QPSK 20 Mhz 50RB 0Offset | | 0 | 1 745.0 | 11.25 | 13.00 | 1.496 | 0.234 | 0.350 | |
| QPSK 20 Mhz 1RB 49Offset | Right | 0 | 1 745.0 | 11.31 | 13.00 | 1.476 | 0.036 | 0.053 | |
| QPSK 20 Mhz 50RB 0Offset | | 0 | 1 745.0 | 11.25 | 13.00 | 1.496 | 0.038 | 0.057 | |
| QPSK 20 Mhz 1RB 49Offset | Top | 0 | 1 745.0 | 11.31 | 13.00 | 1.479 | 0.052 | 0.077 | |
| QPSK 20 Mhz 50RB 0Offset | | 0 | 1 745.0 | 11.25 | 13.00 | 1.496 | 0.053 | 0.079 | |

5G NR n5

| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dBm) | Max. Tune-up Power (dBm) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
|--|--------------|---------------|-----------------|--------------------------------|--------------------------|----------------------|-------------------------|-------------------------|----------|
| Grip Sensor off | | | | | | | | | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 53offset | Rear | 19 | 836.5 | 24.46 | 25.00 | 1.132 | 0.472 | 0.534 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 28offset | | 19 | 836.5 | 24.36 | 25.00 | 1.159 | 0.444 | 0.514 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 53offset | Right | 7 | 836.5 | 24.46 | 25.00 | 1.132 | 0.494 | 0.559 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 28offset | | 7 | 836.5 | 24.36 | 25.00 | 1.159 | 0.503 | 0.583 | 38 |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 53offset | Top | 14 | 836.5 | 24.46 | 25.00 | 1.132 | 0.240 | 0.272 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 28offset | | 14 | 836.5 | 24.36 | 25.00 | 1.159 | 0.242 | 0.280 | |
| CP-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 1offset | Right | 7 | 836.5 | 22.75 | 23.50 | 1.189 | 0.354 | 0.421 | |
| Grip Sensor on | | | | | | | | | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 53offset | Rear | 0 | 836.5 | 16.56 | 18.00 | 1.393 | 0.291 | 0.405 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 28offset | | 0 | 836.5 | 16.53 | 18.00 | 1.403 | 0.291 | 0.408 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 53offset | Right | 0 | 836.5 | 16.56 | 18.00 | 1.393 | 0.143 | 0.199 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 28offset | | 0 | 836.5 | 16.53 | 18.00 | 1.403 | 0.141 | 0.198 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 53offset | Top | 0 | 836.5 | 16.56 | 18.00 | 1.393 | 0.099 | 0.138 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 28offset | | 0 | 836.5 | 16.53 | 18.00 | 1.403 | 0.095 | 0.133 | |

5G NR n66

| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dBm) | Max. Tune-up Power (dBm) | Power Scaling Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
|--|--------------|---------------|-----------------|--------------------------------|--------------------------|----------------------|-------------------------|-------------------------|----------|
| Grip Sensor off | | | | | | | | | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 1offset | Rear | 19 | 1 745.0 | 24.85 | 25.00 | 1.035 | 0.385 | 0.398 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 28offset | | 19 | 1 745.0 | 24.74 | 25.00 | 1.062 | 0.379 | 0.402 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 1offset | Right | 7 | 1 745.0 | 24.85 | 25.00 | 1.035 | 0.620 | 0.642 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 28offset | | 7 | 1 745.0 | 24.74 | 25.00 | 1.062 | 0.682 | 0.724 | 39 |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 1offset | Top | 14 | 1 745.0 | 24.85 | 25.00 | 1.035 | 0.060 | 0.062 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 28offset | | 14 | 1 745.0 | 24.74 | 25.00 | 1.062 | 0.053 | 0.056 | |
| CP-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 1offset | Right | 7 | 1 745.0 | 23.14 | 23.50 | 1.086 | 0.468 | 0.508 | |
| Grip Sensor on | | | | | | | | | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 1offset | Rear | 0 | 1 745.0 | 11.69 | 13.00 | 1.352 | 0.313 | 0.423 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 0offset | | 0 | 1 745.0 | 11.64 | 13.00 | 1.368 | 0.304 | 0.416 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 1offset | Right | 0 | 1 745.0 | 11.69 | 13.00 | 1.352 | 0.063 | 0.085 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 0offset | | 0 | 1 745.0 | 11.64 | 13.00 | 1.368 | 0.061 | 0.083 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 1RB 1offset | Top | 0 | 1 745.0 | 11.69 | 13.00 | 1.352 | 0.079 | 0.107 | |
| DFT-S-OFDM_QPSK SCS 15 kHz_20 MHz 50RB 0offset | | 0 | 1 745.0 | 11.64 | 13.00 | 1.368 | 0.085 | 0.116 | |



WLAN 2.4 GHz

| Ant./ Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dBm) | Max. Tune-up Power (dBm) | Power Scaling Factor | Duty Cycle Compensate Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
|-------------------------|------------------------|-----------------|-----------------|--------------------------------|--------------------------|----------------------|------------------------------|-------------------------|-------------------------|----------|
| <u>Ant.1</u> 802.11b | Grip Sensor Off | | | | | | | | | |
| | Rear | 15 | 2 437.0 | 18.47 | 18.50 | 1.007 | 1.013 | 0.381 | 0.389 | |
| | Left | 9 | 2 437.0 | 18.47 | 18.50 | 1.007 | 1.013 | 0.357 | 0.364 | |
| | Right | 0 | 2 437.0 | 18.47 | 18.50 | 1.007 | 1.013 | 0.000 | 0.000 | |
| | Top | 0 | 2 437.0 | 18.47 | 18.50 | 1.007 | 1.013 | 0.092 | 0.094 | |
| | Grip Sensor On | | | | | | | | | |
| | Rear | 0 | 2 412.0 | 9.96 | 10.50 | 1.132 | 1.013 | 0.736 | 0.844 | |
| | | 0 | 2 437.0 | 9.91 | 10.50 | 1.146 | 1.013 | 0.729 | 0.846 | 40 |
| | Left | 0 | 2 412.0 | 9.96 | 10.50 | 1.132 | 1.013 | 0.235 | 0.269 | |
| | <u>MIMO</u> 802.11b | Grip Sensor Off | | | | | | | | |
| Rear | | 14 | 2 412.0 | 18.28 | 18.50 | 1.052 | 1.013 | 0.480 | 0.512 | |
| Left | | 9 | 2 412.0 | 18.28 | 18.50 | 1.052 | 1.013 | 0.362 | 0.386 | |
| Right | | 0 | 2 412.0 | 18.28 | 18.50 | 1.052 | 1.013 | 0.032 | 0.034 | |
| Top | | 12 | 2 412.0 | 18.28 | 18.50 | 1.052 | 1.013 | 0.082 | 0.087 | |
| Grip Sensor On | | | | | | | | | | |
| Rear | | 0 | 2 462.0 | 9.68 | 10.50 | 1.208 | 1.013 | 0.922 | 1.128 | |
| | | 0 | 2 412.0 | 9.71 | 10.50 | 1.199 | 1.013 | 0.935 | 1.136 | 41 |
| Left | | 0 | 2 462.0 | 9.68 | 10.50 | 1.208 | 1.013 | 0.382 | 0.467 | |
| Top | | 0 | 2 462.0 | 9.68 | 10.50 | 1.208 | 1.013 | 0.122 | 0.149 | |
| Repeated SAR Test | | | | | | | | | | |
| Rear | 0 | 2 412.0 | 9.71 | 10.50 | 1.199 | 1.013 | 0.909 | 1.104 | | |

| U-NII-2A | | | | | | | | | | |
|------------------|-----------------|---------------|-----------------|--------------------------------|--------------------------|----------------------|------------------------------|-------------------------|-------------------------|----------|
| Ant./ Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dBm) | Max. Tune-up Power (dBm) | Power Scaling Factor | Duty Cycle Compensate Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
| Ant.2 802.11a | Grip Sensor Off | | | | | | | | | |
| | Rear | 14 | 5 320.0 | 16.86 | 17.00 | 1.033 | 1.065 | 0.154 | 0.169 | |
| | Left | 0 | 5 320.0 | 16.86 | 17.00 | 1.033 | 1.065 | 0.130 | 0.143 | |
| | Right | 0 | 5 320.0 | 16.86 | 17.00 | 1.033 | 1.065 | 0.000 | 0.000 | |
| | Top | 12 | 5 320.0 | 16.86 | 17.00 | 1.033 | 1.065 | 0.169 | 0.186 | |
| | Grip Sensor On | | | | | | | | | |
| | Rear | 0 | 5 320.0 | 5.65 | 6.50 | 1.216 | 1.065 | 0.577 | 0.747 | 12 |
| Top | 0 | 5 320.0 | 5.65 | 6.50 | 1.216 | 1.065 | 0.189 | 0.245 | | |
| MIMO 802.11a | Grip Sensor Off | | | | | | | | | |
| | Rear | 14 | 5 260.0 | 16.26 | 17.00 | 1.186 | 1.059 | 0.226 | 0.284 | |
| | Left | 9 | 5 260.0 | 16.26 | 17.00 | 1.186 | 1.059 | 0.232 | 0.291 | |
| | Right | 0 | 5 260.0 | 16.26 | 17.00 | 1.186 | 1.059 | 0.000 | 0.000 | |
| | Top | 12 | 5 260.0 | 16.26 | 17.00 | 1.186 | 1.059 | 0.141 | 0.177 | |
| | Grip Sensor On | | | | | | | | | |
| | Rear | 0 | 5 320.0 | 5.43 | 6.50 | 1.279 | 1.059 | 0.446 | 0.604 | 43 |
| Left | 0 | 5 320.0 | 5.43 | 6.50 | 1.279 | 1.059 | 0.036 | 0.049 | | |
| Top | 0 | 5 320.0 | 5.43 | 6.50 | 1.279 | 1.059 | 0.151 | 0.205 | | |

| U-NII-2C | | | | | | | | | | |
|------------------|-----------------|---------------|-----------------|--------------------------------|--------------------------|----------------------|------------------------------|-------------------------|-------------------------|----------|
| Ant./ Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dBm) | Max. Tune-up Power (dBm) | Power Scaling Factor | Duty Cycle Compensate Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
| Ant.2 802.11a | Grip Sensor Off | | | | | | | | | |
| | Rear | 14 | 5 500.0 | 16.68 | 17.00 | 1.076 | 1.065 | 0.377 | 0.432 | |
| | Left | 0 | 5 500.0 | 16.68 | 17.00 | 1.076 | 1.065 | 0.171 | 0.196 | |
| | Right | 0 | 5 500.0 | 16.68 | 17.00 | 1.076 | 1.065 | 0.014 | 0.016 | |
| | Top | 12 | 5 500.0 | 16.68 | 17.00 | 1.076 | 1.065 | 0.341 | 0.391 | |
| | Grip Sensor On | | | | | | | | | |
| | Rear | 0 | 5 500.0 | 5.38 | 6.50 | 1.294 | 1.065 | 0.792 | 1.091 | 44 |
| | 0 | 5 720.0 | 5.37 | 6.50 | 1.297 | 1.065 | 0.623 | 0.861 | | |
| Top | 0 | 5 500.0 | 5.38 | 6.50 | 1.294 | 1.065 | 0.296 | 0.408 | | |
| MIMO 802.11a | Grip Sensor Off | | | | | | | | | |
| | Rear | 14 | 5 500.0 | 16.48 | 17.00 | 1.127 | 1.059 | 0.653 | 0.779 | 45 |
| | Left | 9 | 5 500.0 | 16.48 | 17.00 | 1.127 | 1.059 | 0.498 | 0.594 | |
| | Right | 0 | 5 500.0 | 16.48 | 17.00 | 1.127 | 1.059 | 0.012 | 0.014 | |
| | Top | 12 | 5 500.0 | 16.48 | 17.00 | 1.127 | 1.059 | 0.280 | 0.334 | |
| | Grip Sensor On | | | | | | | | | |
| | Rear | 0 | 5 720.0 | 5.83 | 6.50 | 1.167 | 1.059 | 0.606 | 0.749 | |
| Left | 0 | 5 720.0 | 5.83 | 6.50 | 1.167 | 1.059 | 0.028 | 0.035 | | |
| Top | 0 | 5 720.0 | 5.83 | 6.50 | 1.167 | 1.059 | 0.183 | 0.226 | | |

| U-NII-3 | | | | | | | | | | |
|---------------------------|--|---------------|-----------------|--------------------------------|--------------------------|----------------------|------------------------------|-------------------------|-------------------------|----------|
| Ant./ Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dBm) | Max. Tune-up Power (dBm) | Power Scaling Factor | Duty Cycle Compensate Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
| Ant.2 802.11a | Grip Sensor Off | | | | | | | | | |
| | Rear | 14 | 5 745.0 | 15.39 | 15.50 | 1.026 | 1.065 | 0.751 | 0.821 | |
| | | 14 | 5 825.0 | 15.10 | 15.50 | 1.096 | 1.065 | 0.735 | 0.858 | |
| | Left | 0 | 5 745.0 | 15.39 | 15.50 | 1.026 | 1.065 | 0.207 | 0.226 | |
| | Right | 0 | 5 745.0 | 15.39 | 15.50 | 1.026 | 1.065 | 0.029 | 0.032 | |
| | Top | 12 | 5 745.0 | 15.39 | 15.50 | 1.026 | 1.065 | 0.334 | 0.365 | |
| | Grip Sensor On | | | | | | | | | |
| | Rear | 0 | 5 785.0 | 5.99 | 6.50 | 1.125 | 1.065 | 0.975 | 1.168 | 46 |
| | | 0 | 5 745.0 | 5.50 | 6.50 | 1.259 | 1.065 | 0.863 | 1.157 | |
| | Top | 0 | 5 785.0 | 5.99 | 6.50 | 1.125 | 1.065 | 0.290 | 0.347 | |
| | Repeated SAR Test | | | | | | | | | |
| | Rear | 0 | 5 785.0 | 5.99 | 6.50 | 1.125 | 1.065 | 0.969 | 1.161 | |
| | Additional SAR Test(With Keyboard Cover & S-pen) | | | | | | | | | |
| Rear | 0 | 5 785.0 | 5.99 | 6.50 | 1.125 | 1.065 | 0.573 | 0.687 | | |
| MIMO 802.11a | Grip Sensor Off | | | | | | | | | |
| | Rear | 14 | 5 785.0 | 15.17 | 15.50 | 1.079 | 1.059 | 0.784 | 0.896 | |
| | | 14 | 5 745.0 | 13.91 | 15.50 | 1.442 | 1.059 | 0.468 | 0.715 | |
| | Left | 9 | 5 785.0 | 15.17 | 15.50 | 1.079 | 1.059 | 0.244 | 0.279 | |
| | Right | 0 | 5 785.0 | 15.17 | 15.50 | 1.079 | 1.059 | 0.029 | 0.033 | |
| | Top | 12 | 5 785.0 | 15.17 | 15.50 | 1.079 | 1.059 | 0.296 | 0.338 | |
| | Grip Sensor On | | | | | | | | | |
| | Rear | 0 | 5 745.0 | 4.71 | 6.50 | 1.510 | 1.059 | 0.686 | 1.097 | |
| | | 0 | 5 785.0 | 4.51 | 6.50 | 1.581 | 1.059 | 0.670 | 1.122 | 47 |
| | Left | 0 | 5 745.0 | 4.71 | 6.50 | 1.510 | 1.059 | 0.039 | 0.062 | |
| Top | 0 | 5 745.0 | 4.71 | 6.50 | 1.510 | 1.059 | 0.216 | 0.345 | | |
| Bluetooth | | | | | | | | | | |
| Mode | EUT Position | Distance (mm) | Frequency (MHz) | Measured Conducted Power (dBm) | Max. Tune-up Power (dBm) | Power Scaling Factor | Duty Cycle Compensate Factor | Measured 1 g SAR (W/kg) | Reported 1 g SAR (W/kg) | Plot No. |
| BDR DH5 | Grip Sensor Off | | | | | | | | | |
| | Rear | 15 | 2 480.0 | 16.00 | 16.50 | 1.122 | 1.302 | 0.035 | 0.051 | |
| | Left | 9 | 2 480.0 | 16.00 | 16.50 | 1.122 | 1.302 | 0.090 | 0.131 | |
| | Right | 0 | 2 480.0 | 16.00 | 16.50 | 1.122 | 1.302 | 0.000 | 0.000 | |
| | Top | 0 | 2 480.0 | 16.00 | 16.50 | 1.122 | 1.302 | 0.004 | 0.006 | |
| LE 125 Coded 255 | Grip Sensor On | | | | | | | | | |
| | Rear | 0 | 2 402.0 | 11.19 | 12.00 | 1.205 | 1.027 | 0.697 | 0.863 | 48 |
| | | 0 | 2 440.0 | 10.55 | 12.00 | 1.396 | 1.027 | 0.566 | 0.811 | |
| | | 0 | 2 480.0 | 8.48 | 10.00 | 1.419 | 1.027 | 0.301 | 0.439 | |
| Left | 0 | 2 402.0 | 11.19 | 12.00 | 1.205 | 1.027 | 0.275 | 0.340 | | |

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| <p style="text-align: center;">Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311 www.kctl.co.kr</p> | <p style="text-align: center;">Report No.: KR23-SPF0039-A Page (162) of (575)</p> |   |
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General Notes:



1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, and FCC KDB Publication 447498 D01v06.
2. All modes of operation were investigated, and worst-case results are reported.
3. Battery is fully charged for all readings and the standard batteries are the only options.
4. Liquid tissue depth was at least 15 cm.
5. 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.
6. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
7. This device utilizes power reduction for some wireless modes, as outlined in Section 2.3. The maximum output power allowed for each transmitter and exposure condition was evaluated for SAR compliance based on expected use conditions and simultaneous transmission scenarios.
8. Additional testing required in order satisfying FCC simultaneous transmission limit criteria.
9. Accessories(Keyboard Cover + S-pen) were verified under the worst configuration RF exposure condition.

WCDMA Notes:

1. UMTS mode in 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.
2. 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).

LTE Notes:

1. Justification 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.
2. 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.
3. 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 required channels is not needed because the reported SAR for 100% RB Allocation < 1.45 W/kg.
4. Testing for 16-QAM modulation is not required because the reported SAR for QPSK is < 1.45 W/Kg and its output power is not more than 0.5 dB higher than that of QPSK.
5. 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.
6. A-MPR was disabled for all SAR tests by setting NS=01 and MCC=001 on the base station simulator.
7. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
8. TDD LTE 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).
9. For LTE bands that do not support at least three non-overlapping channels in certain channel bandwidths, test the available non-overlapping channels instead. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing; therefore, the requirement for H, M and L channels may not fully apply.



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| <p>Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311 www.kctl.co.kr</p> | <p>Report No.: KR23-SPF0039-A Page (163) of (575)</p> |   |
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5G NR Notes:

1. NR Bands support SA and NSA modes. NR Bands in EN-DC mode operates with the LTE Bands shown in the 5G NR Information acting as anchor bands.
2. More detailed specifications of the NR bands are contained in the Operation description document.
3. For NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.

WLAN & Bluetooth Notes:

1. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4GHz WIFI operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement.
SAR for OFDM modes (2.4GHz 802.11g/n) was not required due to the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
2. The device was configured to transmit continuously at the required data rate, 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.
3. When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/g/n/ac modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n then ac) is selected.
4. When the specified maximum output power is the same for both UNII Band1 and UNII Band 2A, begins SAR measurement in UNII band 2A; and if the highest reported SAR for UNII band 2A is ≤ 1.2 W/kg, SAR is not required for UNII band1 > 1.2 W/kg, both bands should be tested independently for SAR.
5. 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 for 1g evaluations or all test channels were measured.
6. This device supports 2X2 MIMO Tx for WLAN 802.11a/b/g/n/ac/ax. 802.11a/b/g/n/ac/ax supports CDD and STBC, 802.11n/ac/ax supports SDM. WLAN MIMO evaluation was applied conservatively.

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| <p>Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311 www.kctl.co.kr</p> | <p>Report No.: KR23-SPF0039-A Page (164) of (575)</p> |   |
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13. Simultaneous Transmission

The following procedures adopted from FCC KDB Publication 447498 D01v06 are applicable to devices with built in unlicensed transmitters such as 802.11 and Bluetooth devices which may simultaneously transmit with the licensed transmitter.

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per FCC KDB Publication 447498 D01v06 4.3.2 and IEEE 1528-2013 Section 6.3.4.1.2, simultaneous transmission SAR test exclusion may be applied when the sum of the 1g or 10g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is within SAR limits. The different test positions in an exposure condition may be considered collectively to determine SAR test exclusion according to the sum of 1g or 10g SAR.



13.1.1 Estimated SAR (Maximum Output Power)

| Ant. | Band | Frequency (MHz) | Output power | | Separation distances [mm] | | | | | SAR Exemption | | | | |
|-----------|-----------|-----------------|--------------|---------|---------------------------|---------|---------|-------|------|---------------|-----------|------------|---------|---------|
| | | | dBm | mW | Rear | Left | Right | Top | Bot. | Rear | Left Edge | Right Edge | Top | Bottom |
| Main1 | GSM850 | 848.8 | 24.37 | 274 | 5 | 90 | 12 | 5 | 193 | Measure | 0.400 | Measure | Measure | 0.400 |
| | GSM1900 | 1909.8 | 21.47 | 140 | | | | | | Measure | 0.400 | Measure | Measure | 0.400 |
| | WCDMA B2 | 1907.6 | 24.50 | 282 | | | | | | Measure | 0.400 | Measure | Measure | 0.400 |
| | WCDMA B4 | 1752.6 | 24.50 | 282 | | | | | | Measure | 0.400 | Measure | Measure | 0.400 |
| | WCDMA B5 | 846.6 | 24.50 | 282 | | | | | | Measure | 0.400 | Measure | Measure | 0.400 |
| | LTE B2 | 1909.3 | 25.00 | 316 | | | | | | Measure | 0.400 | Measure | Measure | 0.400 |
| | LTE B5 | 848.3 | 25.00 | 316 | | | | | | Measure | 0.400 | Measure | Measure | 0.400 |
| | LTE B12 | 715.3 | 25.50 | 355 | | | | | | Measure | 0.400 | Measure | Measure | 0.400 |
| | LTE B13 | 784.5 | 25.00 | 316 | | | | | | Measure | 0.400 | Measure | Measure | 0.400 |
| | LTE B26 | 848.3 | 25.00 | 316 | | | | | | Measure | 0.400 | Measure | Measure | 0.400 |
| | LTE B66 | 1779.3 | 25.50 | 355 | | | | | | Measure | 0.400 | Measure | Measure | 0.400 |
| | 5G NR n5 | 846.5 | 25.00 | 316 | | | | | | Measure | 0.400 | Measure | Measure | 0.400 |
| 5G NR n66 | 1777.5 | 25.00 | 316 | Measure | 0.400 | Measure | Measure | 0.400 | | | | | | |
| Sub1 | LTE B2 | 1909.3 | 25.00 | 316 | 5 | 92 | 12 | 193 | 5 | Measure | 0.400 | Measure | 0.400 | Measure |
| Main2 | LTE B41 | 2687.5 | 25.00 | 316 | 5 | 74 | 38 | 5 | 194 | Measure | 0.400 | Measure | Measure | 0.400 |
| WIFI1 | 2.4 GHz | 2462 | 18.50 | 71 | 5 | 5 | 113 | 16 | 196 | Measure | Measure | Measure | Measure | 0.400 |
| | U-NII-2A | 5320 | 17.00 | 50 | | | | | | Measure | Measure | 0.400 | Measure | 0.400 |
| | U-NII-2C | 5720 | 17.00 | 50 | | | | | | Measure | Measure | 0.400 | Measure | 0.400 |
| | U-NII-3 | 5825 | 15.50 | 35 | | | | | | Measure | Measure | 0.400 | Measure | 0.400 |
| | Bluetooth | 2480 | 16.50 | 45 | | | | | | Measure | Measure | Measure | Measure | Measure |
| WIFI2 | 2.4 GHz | 2462 | 18.50 | 71 | 5 | 24 | 89 | 5 | 197 | Measure | Measure | 0.400 | Measure | 0.400 |
| | U-NII-2A | 5320 | 17.00 | 50 | | | | | | Measure | Measure | Measure | Measure | 0.400 |
| | U-NII-2C | 5720 | 17.00 | 50 | | | | | | Measure | Measure | Measure | Measure | 0.400 |
| | U-NII-3 | 5825 | 15.50 | 35 | | | | | | Measure | Measure | Measure | Measure | 0.400 |

- For distances < 5mm, a distance of 5mm is used to determine SAR exclusion and estimated SAR value.
- Output power is the maximum rated power (including tune-up or manufacturing tolerances) and includes source-based averaging.
- If the antenna separation distance is > 50mm then the estimated SAR value is the lesser of the estimated value at 50mm or 0.4 W/Kg.
- Formulas round separation distance to nearest mm and power to nearest mW before calculating estimated SAR or determining if SAR is excluded.

13.1.2 Estimated SAR (Reduced Output Power)

| Ant. | Band | Frequency (MHz) | Output power | | Separation distances [mm] | | | | | SAR Exemption | | | | |
|-----------|-----------|-----------------|--------------|---------|---------------------------|---------|-------|-----|------|---------------|--------------------|--------------------|--------------------|--------------------|
| | | | dBm | mW | Rear | Left | Right | Top | Bot. | Rear | Left Edge | Right Edge | Top | Bot. |
| Main1 | GSM850 | 848.8 | 24.00 | 251 | 5 | 90 | 12 | 5 | 193 | Measure | Non-Power-Back-off | Measure | Measure | Non-Power-Back-off |
| | GSM1900 | 1909.8 | 21.00 | 126 | | | | | | Measure | | Measure | Measure | |
| | WCDMA B2 | 1907.6 | 15.00 | 32 | | | | | | Measure | | Measure | Measure | |
| | WCDMA B4 | 1752.6 | 15.00 | 32 | | | | | | Measure | | Measure | Measure | |
| | WCDMA B5 | 846.6 | 18.00 | 63 | | | | | | Measure | | Measure | Measure | |
| | LTE B2 | 1909.3 | 15.00 | 32 | | | | | | Measure | | Measure | Measure | |
| | LTE B5 | 848.3 | 18.00 | 63 | | | | | | Measure | | Measure | Measure | |
| | LTE B12 | 715.3 | 17.00 | 50 | | | | | | Measure | | Measure | Measure | |
| | LTE B13 | 784.5 | 17.00 | 50 | | | | | | Measure | | Measure | Measure | |
| | LTE B26 | 848.3 | 18.00 | 63 | | | | | | Measure | | Measure | Measure | |
| | LTE B66 | 1779.3 | 13.00 | 20 | | | | | | Measure | | Measure | Measure | |
| | 5G NR n5 | 846.5 | 18.00 | 63 | | | | | | Measure | | Measure | Measure | |
| 5G NR n66 | 1777.5 | 13.00 | 20 | Measure | Measure | Measure | | | | | | | | |
| Sub1 | LTE B2 | 1909.3 | 15.00 | 32 | 5 | 92 | 12 | 193 | 5 | Measure | Non-Power-Back-off | Measure | Non-Power-Back-off | Measure |
| Main2 | LTE B41 | 2687.5 | 12.00 | 16 | 5 | 74 | 38 | 5 | 194 | Measure | Non-Power-Back-off | Non-Power-Back-off | Measure | Non-Power-Back-off |
| WIFI1 | 2.4 GHz | 2462 | 10.50 | 11 | 5 | 5 | 113 | 16 | 196 | Measure | Measure | Non-Power-Back-off | Non-Power-Back-off | Non-Power-Back-off |
| | U-NII-2A | 5320 | 6.50 | 4 | | | | | | Measure | Measure | | | |
| | U-NII-2C | 5720 | 6.50 | 4 | | | | | | Measure | Measure | | | |
| | U-NII-3 | 5825 | 6.50 | 4 | | | | | | Measure | Measure | | | |
| | Bluetooth | 2480 | 12.00 | 16 | | | | | | Measure | Measure | | | |
| WIFI2 | 2.4 GHz | 2462 | 10.50 | 11 | 5 | 24 | 89 | 5 | 197 | Measure | Non-Power-Back-off | Non-Power-Back-off | Measure | Non-Power-Back-off |
| | U-NII-2A | 5320 | 6.50 | 4 | | | | | | Measure | | | Measure | |
| | U-NII-2C | 5720 | 6.50 | 4 | | | | | | Measure | | | Measure | |
| | U-NII-3 | 5825 | 6.50 | 4 | | | | | | Measure | | | Measure | |

Notes:

- For distances < 5mm, a distance of 5mm is used to determine SAR exclusion and estimated SAR value.
- Output power is the maximum rated power (including tune-up or manufacturing tolerances) and includes source-based averaging.
- If the antenna separation distance is > 50mm then the estimated SAR value is the lesser of the estimated value at 50mm or 0.4 W/Kg.
- Formulas round separation distance to nearest mm and power to nearest mW before calculating estimated SAR or determining if SAR is excluded.

13.2 #Simultaneous Transmission Configurations

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.

This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis according to FCC KDB Publication 447498 D01v06 4.3.2 procedures.

| No. | Scenario | RF Exposure Condition |
|-----|--|-----------------------|
| | | Body |
| 1 | Licensed or EN-DC + Bluetooth | Yes |
| 2 | Licensed or EN-DC + WLAN 2.4 GHz Ant.1 | Yes |
| 3 | Licensed or EN-DC + WLAN 5 GHz Ant.2 | Yes |
| 4 | Licensed or EN-DC + WLAN 2.4 GHz MIMO | Yes |
| 5 | Licensed or EN-DC + WLAN 5 GHz MIMO | Yes |
| 6 | Licensed or EN-DC + WLAN 5 GHz Ant.2 + Bluetooth | Yes |

EN-DC Configuration

| No | EN-DC Configuration | | | |
|----|---------------------|---------|------|---------|
| | 5G NR | | LTE | |
| | Band | Antenna | Band | Antenna |
| 1 | n5 | Main 1 | B2 | Main 1 |
| 2 | | | B66 | Main 1 |
| 3 | n66 | Main 1 | B2 | Sub 1 |
| 4 | | | B5 | Main 1 |
| 5 | | | B12 | Main 1 |
| 6 | | | B13 | Main 1 |

13.2.1 Simultaneous Transmission Analysis

13.2.1.1 Simultaneous Transmission Analysis(Standalone)

| Band / Position | | Band | | | | | | Summation | | | | | |
|----------------------------------|-------------|----------|------------------|-----------------|----------------|---------------|------------------|-----------|-------|-------|-------|-------|-------|
| | | licensed | WLAN | | | | Bluetooth [⑥] | No.1 | No.2 | No.3 | No.4 | No.5 | No.6 |
| | | | 2.4 GHz Ant.1 | 2.4 GHz MIMO | 5 GHz Ant.2 | 5 GHz MIMO | | | | | | | |
| [①] | [②] | [③] | [④] | [⑤] | | | | | | | | | |
| GSM/GPRS 850 Band | | | | | | | | | | | | | |
| Head | Right Cheek | 0.165 | 0.015 | 0.185 | 0.284 | 0.293 | 0.026 | 0.191 | 0.180 | 0.449 | 0.350 | 0.458 | 0.475 |
| | Right Tilt | 0.131 | 0.006 | 0.116 | 0.241 | 0.226 | 0.007 | 0.138 | 0.137 | 0.372 | 0.247 | 0.357 | 0.379 |
| | Left Cheek | 0.237 | 0.000 | 0.073 | 0.150 | 0.160 | 0.007 | 0.244 | 0.237 | 0.387 | 0.310 | 0.397 | 0.394 |
| | Left Tilt | 0.180 | 0.000 | 0.054 | 0.155 | 0.160 | 0.002 | 0.182 | 0.180 | 0.335 | 0.234 | 0.340 | 0.337 |
| Body (Sensor OFF) | Rear | 0.549 | 0.389 | 0.512 | 0.858 | 0.896 | 0.051 | 0.600 | 0.938 | 1.407 | 1.061 | 1.445 | 1.458 |
| | Left | 0.400 | 0.364 | 0.386 | 0.226 | 0.594 | 0.131 | 0.531 | 0.764 | 0.626 | 0.786 | 0.994 | 0.757 |
| | Right | 0.551 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.551 | 0.551 | 0.583 | 0.585 | 0.584 | 0.583 |
| | Top | 0.398 | 0.094 | 0.087 | 0.391 | 0.338 | 0.006 | 0.404 | 0.492 | 0.789 | 0.485 | 0.736 | 0.795 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |
| Body (Sensor On) | Rear | 0.350 | 0.846 | 1.136 | 1.168 | 1.122 | 0.863 | 1.213 | 1.196 | 1.518 | 1.486 | 1.472 | 2.381 |
| | Left | 0.400 | 0.269 | 0.467 | 0.226 | 0.062 | 0.340 | 0.740 | 0.669 | 0.626 | 0.867 | 0.462 | 0.966 |
| | Right | 0.150 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.150 | 0.150 | 0.182 | 0.184 | 0.183 | 0.182 |
| | Top | 0.113 | 0.094 | 0.149 | 0.408 | 0.345 | 0.006 | 0.119 | 0.207 | 0.521 | 0.262 | 0.458 | 0.527 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |
| GSM/GPRS 1900 Band | | | | | | | | | | | | | |
| Head | Right Cheek | 0.073 | 0.015 | 0.185 | 0.284 | 0.293 | 0.026 | 0.099 | 0.088 | 0.357 | 0.258 | 0.366 | 0.383 |
| | Right Tilt | 0.060 | 0.006 | 0.116 | 0.241 | 0.226 | 0.007 | 0.067 | 0.066 | 0.301 | 0.176 | 0.286 | 0.308 |
| | Left Cheek | 0.240 | 0.000 | 0.073 | 0.150 | 0.160 | 0.007 | 0.247 | 0.240 | 0.390 | 0.313 | 0.400 | 0.397 |
| | Left Tilt | 0.136 | 0.000 | 0.054 | 0.155 | 0.160 | 0.002 | 0.138 | 0.136 | 0.291 | 0.190 | 0.296 | 0.293 |
| Body (Sensor OFF) | Rear | 0.308 | 0.389 | 0.512 | 0.858 | 0.896 | 0.051 | 0.359 | 0.697 | 1.166 | 0.820 | 1.204 | 1.217 |
| | Left | 0.400 | 0.364 | 0.386 | 0.226 | 0.594 | 0.131 | 0.531 | 0.764 | 0.626 | 0.786 | 0.994 | 0.757 |
| | Right | 0.229 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.229 | 0.229 | 0.261 | 0.263 | 0.262 | 0.261 |
| | Top | 0.217 | 0.094 | 0.087 | 0.391 | 0.338 | 0.006 | 0.223 | 0.311 | 0.608 | 0.304 | 0.555 | 0.614 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |
| Body (Sensor On) | Rear | 0.629 | 0.846 | 1.136 | 1.168 | 1.122 | 0.863 | 1.492 | 1.475 | 1.797 | 1.765 | 1.751 | 2.660 |
| | Left | 0.400 | 0.269 | 0.467 | 0.226 | 0.062 | 0.340 | 0.740 | 0.669 | 0.626 | 0.867 | 0.462 | 0.966 |
| | Right | 0.062 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.062 | 0.062 | 0.094 | 0.096 | 0.095 | 0.094 |
| | Top | 0.164 | 0.094 | 0.149 | 0.408 | 0.345 | 0.006 | 0.170 | 0.258 | 0.572 | 0.313 | 0.509 | 0.578 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |

| Band / Position | Band | | | | | | | Summation | | | | | |
|-------------------------|-------------|------------------|-----------------|----------------|---------------|------------------|-------|-----------|-------|-------|-------|-------|-------|
| | licensed | WLAN | | | | Bluetooth [⑥] | No.1 | No.2 | No.3 | No.4 | No.5 | No.6 | |
| | | 2.4 GHz Ant.1 | 2.4 GHz MIMO | 5 GHz Ant.2 | 5 GHz MIMO | | | | | | | | [①+⑥] |
| [①] | [②] | [③] | [④] | [⑤] | | | | | | | | | |
| WCDMA Band II | | | | | | | | | | | | | |
| Head | Right Cheek | 0.086 | 0.015 | 0.185 | 0.284 | 0.293 | 0.026 | 0.112 | 0.101 | 0.370 | 0.271 | 0.379 | 0.396 |
| | Right Tilt | 0.049 | 0.006 | 0.116 | 0.241 | 0.226 | 0.007 | 0.056 | 0.055 | 0.290 | 0.165 | 0.275 | 0.297 |
| | Left Cheek | 0.342 | 0.000 | 0.073 | 0.150 | 0.160 | 0.007 | 0.349 | 0.342 | 0.492 | 0.415 | 0.502 | 0.499 |
| | Left Tilt | 0.153 | 0.000 | 0.054 | 0.155 | 0.160 | 0.002 | 0.155 | 0.153 | 0.308 | 0.207 | 0.313 | 0.310 |
| Body (Sensor OFF) | Rear | 0.370 | 0.389 | 0.512 | 0.858 | 0.896 | 0.051 | 0.421 | 0.759 | 1.228 | 0.882 | 1.266 | 1.279 |
| | Left | 0.400 | 0.364 | 0.386 | 0.226 | 0.594 | 0.131 | 0.531 | 0.764 | 0.626 | 0.786 | 0.994 | 0.757 |
| | Right | 0.509 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.509 | 0.509 | 0.541 | 0.543 | 0.542 | 0.541 |
| | Top | 0.077 | 0.094 | 0.087 | 0.391 | 0.338 | 0.006 | 0.083 | 0.171 | 0.468 | 0.164 | 0.415 | 0.474 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |
| Body (Sensor On) | Rear | 0.725 | 0.846 | 1.136 | 1.168 | 1.122 | 0.863 | 1.588 | 1.571 | 1.893 | 1.861 | 1.847 | 2.756 |
| | Left | 0.400 | 0.269 | 0.467 | 0.226 | 0.062 | 0.340 | 0.740 | 0.669 | 0.626 | 0.867 | 0.462 | 0.966 |
| | Right | 0.125 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.125 | 0.125 | 0.157 | 0.159 | 0.158 | 0.157 |
| | Top | 0.036 | 0.094 | 0.149 | 0.408 | 0.345 | 0.006 | 0.042 | 0.130 | 0.444 | 0.185 | 0.381 | 0.450 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |
| WCDMA Band IV | | | | | | | | | | | | | |
| Head | Right Cheek | 0.070 | 0.015 | 0.185 | 0.284 | 0.293 | 0.026 | 0.096 | 0.085 | 0.354 | 0.255 | 0.363 | 0.380 |
| | Right Tilt | 0.040 | 0.006 | 0.116 | 0.241 | 0.226 | 0.007 | 0.047 | 0.046 | 0.281 | 0.156 | 0.266 | 0.288 |
| | Left Cheek | 0.273 | 0.000 | 0.073 | 0.150 | 0.160 | 0.007 | 0.280 | 0.273 | 0.423 | 0.346 | 0.433 | 0.430 |
| | Left Tilt | 0.136 | 0.000 | 0.054 | 0.155 | 0.160 | 0.002 | 0.138 | 0.136 | 0.291 | 0.190 | 0.296 | 0.293 |
| Body (Sensor OFF) | Rear | 0.359 | 0.389 | 0.512 | 0.858 | 0.896 | 0.051 | 0.410 | 0.748 | 1.217 | 0.871 | 1.255 | 1.268 |
| | Left | 0.400 | 0.364 | 0.386 | 0.226 | 0.594 | 0.131 | 0.531 | 0.764 | 0.626 | 0.786 | 0.994 | 0.757 |
| | Right | 0.628 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.628 | 0.628 | 0.660 | 0.662 | 0.661 | 0.660 |
| | Top | 0.056 | 0.094 | 0.087 | 0.391 | 0.338 | 0.006 | 0.062 | 0.150 | 0.447 | 0.143 | 0.394 | 0.453 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |
| Body (Sensor On) | Rear | 0.761 | 0.846 | 1.136 | 1.168 | 1.122 | 0.863 | 1.624 | 1.607 | 1.929 | 1.897 | 1.883 | 2.792 |
| | Left | 0.400 | 0.269 | 0.467 | 0.226 | 0.062 | 0.340 | 0.740 | 0.669 | 0.626 | 0.867 | 0.462 | 0.966 |
| | Right | 0.170 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.170 | 0.170 | 0.202 | 0.204 | 0.203 | 0.202 |
| | Top | 0.041 | 0.094 | 0.149 | 0.408 | 0.345 | 0.006 | 0.047 | 0.135 | 0.449 | 0.190 | 0.386 | 0.455 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |
| WCDMA Band V | | | | | | | | | | | | | |
| Head | Right Cheek | 0.201 | 0.015 | 0.185 | 0.284 | 0.293 | 0.026 | 0.227 | 0.216 | 0.485 | 0.386 | 0.494 | 0.511 |
| | Right Tilt | 0.166 | 0.006 | 0.116 | 0.241 | 0.226 | 0.007 | 0.173 | 0.172 | 0.407 | 0.282 | 0.392 | 0.414 |
| | Left Cheek | 0.329 | 0.000 | 0.073 | 0.150 | 0.160 | 0.007 | 0.336 | 0.329 | 0.479 | 0.402 | 0.489 | 0.486 |
| | Left Tilt | 0.244 | 0.000 | 0.054 | 0.155 | 0.160 | 0.002 | 0.246 | 0.244 | 0.399 | 0.298 | 0.404 | 0.401 |
| Body (Sensor OFF) | Rear | 0.510 | 0.389 | 0.512 | 0.858 | 0.896 | 0.051 | 0.561 | 0.899 | 1.368 | 1.022 | 1.406 | 1.419 |
| | Left | 0.400 | 0.364 | 0.386 | 0.226 | 0.594 | 0.131 | 0.531 | 0.764 | 0.626 | 0.786 | 0.994 | 0.757 |
| | Right | 0.506 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.506 | 0.506 | 0.538 | 0.540 | 0.539 | 0.538 |
| | Top | 0.338 | 0.094 | 0.087 | 0.391 | 0.338 | 0.006 | 0.344 | 0.432 | 0.729 | 0.425 | 0.676 | 0.735 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |
| Body (Sensor On) | Rear | 0.471 | 0.846 | 1.136 | 1.168 | 1.122 | 0.863 | 1.334 | 1.317 | 1.639 | 1.607 | 1.593 | 2.502 |
| | Left | 0.400 | 0.269 | 0.467 | 0.226 | 0.062 | 0.340 | 0.740 | 0.669 | 0.626 | 0.867 | 0.462 | 0.966 |
| | Right | 0.207 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.207 | 0.207 | 0.239 | 0.241 | 0.240 | 0.239 |
| | Top | 0.130 | 0.094 | 0.149 | 0.408 | 0.345 | 0.006 | 0.136 | 0.224 | 0.538 | 0.279 | 0.475 | 0.544 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |

| Band / Position | Band | | | | | | | Summation | | | | | |
|--------------------------|-------------|------------------|-----------------|----------------|---------------|------------------|-------|-----------|-------|---------|-------|-------|-------|
| | licensed | WLAN | | | | Bluetooth [⑥] | No.1 | No.2 | No.3 | No.4 | No.5 | No.6 | |
| | | 2.4 GHz Ant.1 | 2.4 GHz MIMO | 5 GHz Ant.2 | 5 GHz MIMO | | | | | | | | |
| [①] | [②] | [③] | [④] | [⑤] | [①+⑥] | [①+②] | [①+④] | [①+③] | [①+⑤] | [①+④+⑥] | | | |
| LTE Band 2(Main1) | | | | | | | | | | | | | |
| Head | Right Cheek | 0.085 | 0.015 | 0.185 | 0.284 | 0.293 | 0.026 | 0.111 | 0.100 | 0.369 | 0.270 | 0.378 | 0.395 |
| | Right Tilt | 0.048 | 0.006 | 0.116 | 0.241 | 0.226 | 0.007 | 0.055 | 0.054 | 0.289 | 0.164 | 0.274 | 0.296 |
| | Left Cheek | 0.296 | 0.000 | 0.073 | 0.150 | 0.160 | 0.007 | 0.303 | 0.296 | 0.446 | 0.369 | 0.456 | 0.453 |
| | Left Tilt | 0.157 | 0.000 | 0.054 | 0.155 | 0.160 | 0.002 | 0.159 | 0.157 | 0.312 | 0.211 | 0.317 | 0.314 |
| Body (Sensor OFF) | Rear | 0.317 | 0.389 | 0.512 | 0.858 | 0.896 | 0.051 | 0.368 | 0.706 | 1.175 | 0.829 | 1.213 | 1.226 |
| | Left | 0.400 | 0.364 | 0.386 | 0.226 | 0.594 | 0.131 | 0.531 | 0.764 | 0.626 | 0.786 | 0.994 | 0.757 |
| | Right | 0.481 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.481 | 0.481 | 0.513 | 0.515 | 0.514 | 0.513 |
| | Top | 0.091 | 0.094 | 0.087 | 0.391 | 0.338 | 0.006 | 0.097 | 0.185 | 0.482 | 0.178 | 0.429 | 0.488 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |
| Body (Sensor On) | Rear | 0.582 | 0.846 | 1.136 | 1.168 | 1.122 | 0.863 | 1.445 | 1.428 | 1.750 | 1.718 | 1.704 | 2.613 |
| | Left | 0.400 | 0.269 | 0.467 | 0.226 | 0.062 | 0.340 | 0.740 | 0.669 | 0.626 | 0.867 | 0.462 | 0.966 |
| | Right | 0.103 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.103 | 0.103 | 0.135 | 0.137 | 0.136 | 0.135 |
| | Top | 0.028 | 0.094 | 0.149 | 0.408 | 0.345 | 0.006 | 0.034 | 0.122 | 0.436 | 0.177 | 0.373 | 0.442 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |
| LTE Band 2(Sub1) | | | | | | | | | | | | | |
| Head | Right Cheek | 0.030 | 0.015 | 0.185 | 0.284 | 0.293 | 0.026 | 0.056 | 0.045 | 0.314 | 0.215 | 0.323 | 0.340 |
| | Right Tilt | 0.008 | 0.006 | 0.116 | 0.241 | 0.226 | 0.007 | 0.015 | 0.014 | 0.249 | 0.124 | 0.234 | 0.256 |
| | Left Cheek | 0.020 | 0.000 | 0.073 | 0.150 | 0.160 | 0.007 | 0.027 | 0.020 | 0.170 | 0.093 | 0.180 | 0.177 |
| | Left Tilt | 0.013 | 0.000 | 0.054 | 0.155 | 0.160 | 0.002 | 0.015 | 0.013 | 0.168 | 0.067 | 0.173 | 0.170 |
| Body (Sensor OFF) | Rear | 0.224 | 0.389 | 0.512 | 0.858 | 0.896 | 0.051 | 0.275 | 0.613 | 1.082 | 0.736 | 1.120 | 1.133 |
| | Left | 0.400 | 0.364 | 0.386 | 0.226 | 0.594 | 0.131 | 0.531 | 0.764 | 0.626 | 0.786 | 0.994 | 0.757 |
| | Right | 0.548 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.548 | 0.548 | 0.580 | 0.582 | 0.581 | 0.580 |
| | Top | 0.400 | 0.094 | 0.087 | 0.391 | 0.338 | 0.006 | 0.406 | 0.494 | 0.791 | 0.487 | 0.738 | 0.797 |
| | Bottom | 0.264 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.264 | 0.664 | 0.664 | 0.664 | 0.664 | 0.664 |
| Body (Sensor On) | Rear | 0.500 | 0.846 | 1.136 | 1.168 | 1.122 | 0.863 | 1.363 | 1.346 | 1.668 | 1.636 | 1.622 | 2.531 |
| | Left | 0.400 | 0.269 | 0.467 | 0.226 | 0.062 | 0.340 | 0.740 | 0.669 | 0.626 | 0.867 | 0.462 | 0.966 |
| | Right | 0.134 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.134 | 0.134 | 0.166 | 0.168 | 0.167 | 0.166 |
| | Top | 0.400 | 0.094 | 0.149 | 0.408 | 0.345 | 0.006 | 0.406 | 0.494 | 0.808 | 0.549 | 0.745 | 0.814 |
| | Bottom | 0.266 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.266 | 0.666 | 0.666 | 0.666 | 0.666 | 0.666 |
| LTE Band 5 | | | | | | | | | | | | | |
| Head | Right Cheek | 0.234 | 0.015 | 0.185 | 0.284 | 0.293 | 0.026 | 0.260 | 0.249 | 0.518 | 0.419 | 0.527 | 0.544 |
| | Right Tilt | 0.180 | 0.006 | 0.116 | 0.241 | 0.226 | 0.007 | 0.187 | 0.186 | 0.421 | 0.296 | 0.406 | 0.428 |
| | Left Cheek | 0.380 | 0.000 | 0.073 | 0.150 | 0.160 | 0.007 | 0.387 | 0.380 | 0.530 | 0.453 | 0.540 | 0.537 |
| | Left Tilt | 0.285 | 0.000 | 0.054 | 0.155 | 0.160 | 0.002 | 0.287 | 0.285 | 0.440 | 0.339 | 0.445 | 0.442 |
| Body (Sensor OFF) | Rear | 0.581 | 0.389 | 0.512 | 0.858 | 0.896 | 0.051 | 0.632 | 0.970 | 1.439 | 1.093 | 1.477 | 1.490 |
| | Left | 0.400 | 0.364 | 0.386 | 0.226 | 0.594 | 0.131 | 0.531 | 0.764 | 0.626 | 0.786 | 0.994 | 0.757 |
| | Right | 0.583 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.583 | 0.583 | 0.615 | 0.617 | 0.616 | 0.615 |
| | Top | 0.355 | 0.094 | 0.087 | 0.391 | 0.338 | 0.006 | 0.361 | 0.449 | 0.746 | 0.442 | 0.693 | 0.752 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |
| Body (Sensor On) | Rear | 0.493 | 0.846 | 1.136 | 1.168 | 1.122 | 0.863 | 1.356 | 1.339 | 1.661 | 1.629 | 1.615 | 2.524 |
| | Left | 0.400 | 0.269 | 0.467 | 0.226 | 0.062 | 0.340 | 0.740 | 0.669 | 0.626 | 0.867 | 0.462 | 0.966 |
| | Right | 0.186 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.186 | 0.186 | 0.218 | 0.220 | 0.219 | 0.218 |
| | Top | 0.145 | 0.094 | 0.149 | 0.408 | 0.345 | 0.006 | 0.151 | 0.239 | 0.553 | 0.294 | 0.490 | 0.559 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |

| Band / Position | Band | | | | | | Summation | | | | | | |
|--------------------|-------------|------------------|-----------------|----------------|---------------|------------------|-----------|-------|-------|-------|-------|-------|-------|
| | licensed | WLAN | | | | Bluetooth [⑥] | No.1 | No.2 | No.3 | No.4 | No.5 | No.6 | |
| | | 2.4 GHz Ant.1 | 2.4 GHz MIMO | 5 GHz Ant.2 | 5 GHz MIMO | | | | | | | | [①+⑥] |
| [①] | [②] | [③] | [④] | [⑤] | | | | | | | | | |
| LTE Band 12 | | | | | | | | | | | | | |
| Head | Right Cheek | 0.160 | 0.015 | 0.185 | 0.284 | 0.293 | 0.026 | 0.186 | 0.175 | 0.444 | 0.345 | 0.453 | 0.470 |
| | Right Tilt | 0.134 | 0.006 | 0.116 | 0.241 | 0.226 | 0.007 | 0.141 | 0.140 | 0.375 | 0.250 | 0.360 | 0.382 |
| | Left Cheek | 0.364 | 0.000 | 0.073 | 0.150 | 0.160 | 0.007 | 0.371 | 0.364 | 0.514 | 0.437 | 0.524 | 0.521 |
| | Left Tilt | 0.279 | 0.000 | 0.054 | 0.155 | 0.160 | 0.002 | 0.281 | 0.279 | 0.434 | 0.333 | 0.439 | 0.436 |
| Body (Sensor OFF) | Rear | 0.311 | 0.389 | 0.512 | 0.858 | 0.896 | 0.051 | 0.362 | 0.700 | 1.169 | 0.823 | 1.207 | 1.220 |
| | Left | 0.400 | 0.364 | 0.386 | 0.226 | 0.594 | 0.131 | 0.531 | 0.764 | 0.626 | 0.786 | 0.994 | 0.757 |
| | Right | 0.183 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.183 | 0.183 | 0.215 | 0.217 | 0.216 | 0.215 |
| | Top | 0.363 | 0.094 | 0.087 | 0.391 | 0.338 | 0.006 | 0.369 | 0.457 | 0.754 | 0.450 | 0.701 | 0.760 |
| Body (Sensor On) | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |
| | Rear | 0.439 | 0.846 | 1.136 | 1.168 | 1.122 | 0.863 | 1.302 | 1.285 | 1.607 | 1.575 | 1.561 | 2.470 |
| | Left | 0.400 | 0.269 | 0.467 | 0.226 | 0.062 | 0.340 | 0.740 | 0.669 | 0.626 | 0.867 | 0.462 | 0.966 |
| | Right | 0.125 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.125 | 0.125 | 0.157 | 0.159 | 0.158 | 0.157 |
| | Top | 0.243 | 0.094 | 0.149 | 0.408 | 0.345 | 0.006 | 0.249 | 0.337 | 0.651 | 0.392 | 0.588 | 0.657 |
| Body (Sensor On) | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |
| | Rear | 0.439 | 0.846 | 1.136 | 1.168 | 1.122 | 0.863 | 1.302 | 1.285 | 1.607 | 1.575 | 1.561 | 2.470 |
| | Left | 0.400 | 0.269 | 0.467 | 0.226 | 0.062 | 0.340 | 0.740 | 0.669 | 0.626 | 0.867 | 0.462 | 0.966 |
| | Right | 0.125 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.125 | 0.125 | 0.157 | 0.159 | 0.158 | 0.157 |
| | Top | 0.243 | 0.094 | 0.149 | 0.408 | 0.345 | 0.006 | 0.249 | 0.337 | 0.651 | 0.392 | 0.588 | 0.657 |
| LTE Band 13 | | | | | | | | | | | | | |
| Head | Right Cheek | 0.167 | 0.015 | 0.185 | 0.284 | 0.293 | 0.026 | 0.193 | 0.182 | 0.451 | 0.352 | 0.460 | 0.477 |
| | Right Tilt | 0.128 | 0.006 | 0.116 | 0.241 | 0.226 | 0.007 | 0.135 | 0.134 | 0.369 | 0.244 | 0.354 | 0.376 |
| | Left Cheek | 0.383 | 0.000 | 0.073 | 0.150 | 0.160 | 0.007 | 0.390 | 0.383 | 0.533 | 0.456 | 0.543 | 0.540 |
| | Left Tilt | 0.269 | 0.000 | 0.054 | 0.155 | 0.160 | 0.002 | 0.271 | 0.269 | 0.424 | 0.323 | 0.429 | 0.426 |
| Body (Sensor OFF) | Rear | 0.303 | 0.389 | 0.512 | 0.858 | 0.896 | 0.051 | 0.354 | 0.692 | 1.161 | 0.815 | 1.199 | 1.212 |
| | Left | 0.400 | 0.364 | 0.386 | 0.226 | 0.594 | 0.131 | 0.531 | 0.764 | 0.626 | 0.786 | 0.994 | 0.757 |
| | Right | 0.237 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.237 | 0.237 | 0.269 | 0.271 | 0.270 | 0.269 |
| | Top | 0.262 | 0.094 | 0.087 | 0.391 | 0.338 | 0.006 | 0.268 | 0.356 | 0.653 | 0.349 | 0.600 | 0.659 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |
| Body (Sensor On) | Rear | 0.479 | 0.846 | 1.136 | 1.168 | 1.122 | 0.863 | 1.342 | 1.325 | 1.647 | 1.615 | 1.601 | 2.510 |
| | Left | 0.400 | 0.269 | 0.467 | 0.226 | 0.062 | 0.340 | 0.740 | 0.669 | 0.626 | 0.867 | 0.462 | 0.966 |
| | Right | 0.173 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.173 | 0.173 | 0.205 | 0.207 | 0.206 | 0.205 |
| | Top | 0.171 | 0.094 | 0.149 | 0.408 | 0.345 | 0.006 | 0.177 | 0.265 | 0.579 | 0.320 | 0.516 | 0.585 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |
| LTE Band 26 | | | | | | | | | | | | | |
| Head | Right Cheek | 0.209 | 0.015 | 0.185 | 0.284 | 0.293 | 0.026 | 0.235 | 0.224 | 0.493 | 0.394 | 0.502 | 0.519 |
| | Right Tilt | 0.170 | 0.006 | 0.116 | 0.241 | 0.226 | 0.007 | 0.177 | 0.176 | 0.411 | 0.286 | 0.396 | 0.418 |
| | Left Cheek | 0.402 | 0.000 | 0.073 | 0.150 | 0.160 | 0.007 | 0.409 | 0.402 | 0.552 | 0.475 | 0.562 | 0.559 |
| | Left Tilt | 0.303 | 0.000 | 0.054 | 0.155 | 0.160 | 0.002 | 0.305 | 0.303 | 0.458 | 0.357 | 0.463 | 0.460 |
| Body (Sensor OFF) | Rear | 0.601 | 0.389 | 0.512 | 0.858 | 0.896 | 0.051 | 0.652 | 0.990 | 1.459 | 1.113 | 1.497 | 1.510 |
| | Left | 0.400 | 0.364 | 0.386 | 0.226 | 0.594 | 0.131 | 0.531 | 0.764 | 0.626 | 0.786 | 0.994 | 0.757 |
| | Right | 0.587 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.587 | 0.587 | 0.619 | 0.621 | 0.620 | 0.619 |
| | Top | 0.472 | 0.094 | 0.087 | 0.391 | 0.338 | 0.006 | 0.478 | 0.566 | 0.863 | 0.559 | 0.810 | 0.869 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |
| Body (Sensor On) | Rear | 0.537 | 0.846 | 1.136 | 1.168 | 1.122 | 0.863 | 1.400 | 1.383 | 1.705 | 1.673 | 1.659 | 2.568 |
| | Left | 0.400 | 0.269 | 0.467 | 0.226 | 0.062 | 0.340 | 0.740 | 0.669 | 0.626 | 0.867 | 0.462 | 0.966 |
| | Right | 0.216 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.216 | 0.216 | 0.248 | 0.250 | 0.249 | 0.248 |
| | Top | 0.170 | 0.094 | 0.149 | 0.408 | 0.345 | 0.006 | 0.176 | 0.264 | 0.578 | 0.319 | 0.515 | 0.584 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |

| Band / Position | Band | | | | | | Summation | | | | | | |
|-----------------------------------|-------------|------------------|-----------------|----------------|---------------|------------------|-----------|-------|-------|-------|-------|-------|-------|
| | licensed | WLAN | | | | Bluetooth [⑥] | No.1 | No.2 | No.3 | No.4 | No.5 | No.6 | |
| | | 2.4 GHz Ant.1 | 2.4 GHz MIMO | 5 GHz Ant.2 | 5 GHz MIMO | | | | | | | | [①+⑥] |
| [①] | [②] | [③] | [④] | [⑤] | | | | | | | | | |
| LTE Band 41(Power Class 3) | | | | | | | | | | | | | |
| Head | Right Cheek | 0.105 | 0.015 | 0.185 | 0.284 | 0.293 | 0.026 | 0.131 | 0.120 | 0.389 | 0.290 | 0.398 | 0.415 |
| | Right Tilt | 0.081 | 0.006 | 0.116 | 0.241 | 0.226 | 0.007 | 0.088 | 0.087 | 0.322 | 0.197 | 0.307 | 0.329 |
| | Left Cheek | 0.161 | 0.000 | 0.073 | 0.150 | 0.160 | 0.007 | 0.168 | 0.161 | 0.311 | 0.234 | 0.321 | 0.318 |
| | Left Tilt | 0.104 | 0.000 | 0.054 | 0.155 | 0.160 | 0.002 | 0.106 | 0.104 | 0.259 | 0.158 | 0.264 | 0.261 |
| Body (Sensor OFF) | Rear | 0.509 | 0.389 | 0.512 | 0.858 | 0.896 | 0.051 | 0.560 | 0.898 | 1.367 | 1.021 | 1.405 | 1.418 |
| | Left | 0.400 | 0.364 | 0.386 | 0.226 | 0.594 | 0.131 | 0.531 | 0.764 | 0.626 | 0.786 | 0.994 | 0.757 |
| | Right | 0.303 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.303 | 0.303 | 0.335 | 0.337 | 0.336 | 0.335 |
| | Top | 0.725 | 0.094 | 0.087 | 0.391 | 0.338 | 0.006 | 0.731 | 0.819 | 1.116 | 0.812 | 1.063 | 1.122 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |
| Body (Sensor On) | Rear | 0.472 | 0.846 | 1.136 | 1.168 | 1.122 | 0.863 | 1.335 | 1.318 | 1.640 | 1.608 | 1.594 | 2.503 |
| | Left | 0.400 | 0.269 | 0.467 | 0.226 | 0.062 | 0.340 | 0.740 | 0.669 | 0.626 | 0.867 | 0.462 | 0.966 |
| | Right | 0.303 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.303 | 0.303 | 0.335 | 0.337 | 0.336 | 0.335 |
| | Top | 0.150 | 0.094 | 0.149 | 0.408 | 0.345 | 0.006 | 0.156 | 0.244 | 0.558 | 0.299 | 0.495 | 0.564 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |
| LTE Band 66 | | | | | | | | | | | | | |
| Head | Right Cheek | 0.051 | 0.015 | 0.185 | 0.284 | 0.293 | 0.026 | 0.077 | 0.066 | 0.335 | 0.236 | 0.344 | 0.361 |
| | Right Tilt | 0.054 | 0.006 | 0.116 | 0.241 | 0.226 | 0.007 | 0.061 | 0.060 | 0.295 | 0.170 | 0.280 | 0.302 |
| | Left Cheek | 0.136 | 0.000 | 0.073 | 0.150 | 0.160 | 0.007 | 0.143 | 0.136 | 0.286 | 0.209 | 0.296 | 0.293 |
| | Left Tilt | 0.084 | 0.000 | 0.054 | 0.155 | 0.160 | 0.002 | 0.086 | 0.084 | 0.239 | 0.138 | 0.244 | 0.241 |
| Body (Sensor OFF) | Rear | 0.482 | 0.389 | 0.512 | 0.858 | 0.896 | 0.051 | 0.533 | 0.871 | 1.340 | 0.994 | 1.378 | 1.391 |
| | Left | 0.400 | 0.364 | 0.386 | 0.226 | 0.594 | 0.131 | 0.531 | 0.764 | 0.626 | 0.786 | 0.994 | 0.757 |
| | Right | 0.722 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.722 | 0.722 | 0.754 | 0.756 | 0.755 | 0.754 |
| | Top | 0.078 | 0.094 | 0.087 | 0.391 | 0.338 | 0.006 | 0.084 | 0.172 | 0.469 | 0.165 | 0.416 | 0.475 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |
| Body (Sensor On) | Rear | 0.350 | 0.846 | 1.136 | 1.168 | 1.122 | 0.863 | 1.213 | 1.196 | 1.518 | 1.486 | 1.472 | 2.381 |
| | Left | 0.400 | 0.269 | 0.467 | 0.226 | 0.062 | 0.340 | 0.740 | 0.669 | 0.626 | 0.867 | 0.462 | 0.966 |
| | Right | 0.057 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.057 | 0.057 | 0.089 | 0.091 | 0.090 | 0.089 |
| | Top | 0.079 | 0.094 | 0.149 | 0.408 | 0.345 | 0.006 | 0.085 | 0.173 | 0.487 | 0.228 | 0.424 | 0.493 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |
| 5G NR n5 | | | | | | | | | | | | | |
| Head | Right Cheek | 0.206 | 0.015 | 0.185 | 0.284 | 0.293 | 0.026 | 0.232 | 0.221 | 0.490 | 0.391 | 0.499 | 0.516 |
| | Right Tilt | 0.176 | 0.006 | 0.116 | 0.241 | 0.226 | 0.007 | 0.183 | 0.182 | 0.417 | 0.292 | 0.402 | 0.424 |
| | Left Cheek | 0.401 | 0.000 | 0.073 | 0.150 | 0.160 | 0.007 | 0.408 | 0.401 | 0.551 | 0.474 | 0.561 | 0.558 |
| | Left Tilt | 0.251 | 0.000 | 0.054 | 0.155 | 0.160 | 0.002 | 0.253 | 0.251 | 0.406 | 0.305 | 0.411 | 0.408 |
| Body (Sensor OFF) | Rear | 0.534 | 0.389 | 0.512 | 0.858 | 0.896 | 0.051 | 0.585 | 0.923 | 1.392 | 1.046 | 1.430 | 1.443 |
| | Left | 0.400 | 0.364 | 0.386 | 0.226 | 0.594 | 0.131 | 0.531 | 0.764 | 0.626 | 0.786 | 0.994 | 0.757 |
| | Right | 0.583 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.583 | 0.583 | 0.615 | 0.617 | 0.616 | 0.615 |
| | Top | 0.280 | 0.094 | 0.087 | 0.391 | 0.338 | 0.006 | 0.286 | 0.374 | 0.671 | 0.367 | 0.618 | 0.677 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |
| Body (Sensor On) | Rear | 0.408 | 0.846 | 1.136 | 1.168 | 1.122 | 0.863 | 1.271 | 1.254 | 1.576 | 1.544 | 1.530 | 2.439 |
| | Left | 0.400 | 0.269 | 0.467 | 0.226 | 0.062 | 0.340 | 0.740 | 0.669 | 0.626 | 0.867 | 0.462 | 0.966 |
| | Right | 0.199 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.199 | 0.199 | 0.231 | 0.233 | 0.232 | 0.231 |
| | Top | 0.138 | 0.094 | 0.149 | 0.408 | 0.345 | 0.006 | 0.144 | 0.232 | 0.546 | 0.287 | 0.483 | 0.552 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |

| Band / Position | Band | | | | | | Summation | | | | | | |
|-------------------------|-------------|------------------|-----------------|----------------|---------------|------------------|-----------|-------|-------|-------|-------|-------|-------|
| | licensed | WLAN | | | | Bluetooth [⑥] | No.1 | No.2 | No.3 | No.4 | No.5 | No.6 | |
| | | 2.4 GHz Ant.1 | 2.4 GHz MIMO | 5 GHz Ant.2 | 5 GHz MIMO | | | | | | | | [①+⑥] |
| [①] | [②] | [③] | [④] | [⑤] | | | | | | | | | |
| 5G NR n66 | | | | | | | | | | | | | |
| Head | Right Cheek | 0.079 | 0.015 | 0.185 | 0.284 | 0.293 | 0.026 | 0.105 | 0.094 | 0.363 | 0.264 | 0.372 | 0.389 |
| | Right Tilt | 0.045 | 0.006 | 0.116 | 0.241 | 0.226 | 0.007 | 0.052 | 0.051 | 0.286 | 0.161 | 0.271 | 0.293 |
| | Left Cheek | 0.287 | 0.000 | 0.073 | 0.150 | 0.160 | 0.007 | 0.294 | 0.287 | 0.437 | 0.360 | 0.447 | 0.444 |
| | Left Tilt | 0.150 | 0.000 | 0.054 | 0.155 | 0.160 | 0.002 | 0.152 | 0.150 | 0.305 | 0.204 | 0.310 | 0.307 |
| Body (Sensor OFF) | Rear | 0.402 | 0.389 | 0.512 | 0.858 | 0.896 | 0.051 | 0.453 | 0.791 | 1.260 | 0.914 | 1.298 | 1.311 |
| | Left | 0.400 | 0.364 | 0.386 | 0.226 | 0.594 | 0.131 | 0.531 | 0.764 | 0.626 | 0.786 | 0.994 | 0.757 |
| | Right | 0.724 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.724 | 0.724 | 0.756 | 0.758 | 0.757 | 0.756 |
| | Top | 0.062 | 0.094 | 0.087 | 0.391 | 0.338 | 0.006 | 0.068 | 0.156 | 0.453 | 0.149 | 0.400 | 0.459 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |
| Body (Sensor On) | Rear | 0.423 | 0.846 | 1.136 | 1.168 | 1.122 | 0.863 | 1.286 | 1.269 | 1.591 | 1.559 | 1.545 | 2.454 |
| | Left | 0.400 | 0.269 | 0.467 | 0.226 | 0.062 | 0.340 | 0.740 | 0.669 | 0.626 | 0.867 | 0.462 | 0.966 |
| | Right | 0.085 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.085 | 0.085 | 0.117 | 0.119 | 0.118 | 0.117 |
| | Top | 0.116 | 0.094 | 0.149 | 0.408 | 0.345 | 0.006 | 0.122 | 0.210 | 0.524 | 0.265 | 0.461 | 0.530 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.400 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |

12.3.1.2 Simultaneous Transmission Analysis(ENDC)

| LTE 2(Main1) + 5G NR n5 | | | | | | | | | | | | | | |
|-------------------------|-------------|----------|-------|---------------|--------------|-------------|------------|-----------|--------------|--------------|--------------|--------------|--------------|--------------|
| Band / Position | | Band | | | | | | | Summation | | | | | |
| | | licensed | | WLAN | | | | Bluetooth | No.1 | No.2 | No.3 | No.4 | No.5 | No.6 |
| | | | | 2.4 GHz Ant.1 | 2.4 GHz MIMO | 5 GHz Ant.2 | 5 GHz MIMO | | | | | | | |
| | | ① | | ② | ③ | ④ | ⑤ | ⑥ | ①+⑥ | ①+② | ①+④ | ①+③ | ①+⑤ | ①+④+⑥ |
| LTE 2 (Main1) NR n5 | | | | | | | | | | | | | | |
| Head | Right Cheek | 0.085 | 0.206 | 0.015 | 0.185 | 0.284 | 0.293 | 0.026 | 0.317 | 0.306 | 0.575 | 0.476 | 0.584 | 0.601 |
| | Right Tilt | 0.048 | 0.176 | 0.006 | 0.116 | 0.241 | 0.226 | 0.007 | 0.231 | 0.230 | 0.465 | 0.340 | 0.450 | 0.472 |
| | Left Cheek | 0.296 | 0.401 | 0.000 | 0.073 | 0.150 | 0.160 | 0.007 | 0.704 | 0.697 | 0.847 | 0.770 | 0.857 | 0.854 |
| | Left Tilt | 0.157 | 0.251 | 0.000 | 0.054 | 0.155 | 0.160 | 0.002 | 0.410 | 0.408 | 0.563 | 0.462 | 0.568 | 0.565 |
| Body (Sensor Off) | Rear | 0.317 | 0.534 | 0.389 | 0.512 | 0.858 | 0.896 | 0.051 | 0.902 | 1.240 | 1.709 | 1.363 | 1.747 | 1.760 |
| | Left | 0.400 | 0.400 | 0.364 | 0.386 | 0.226 | 0.594 | 0.131 | 0.931 | 1.164 | 1.026 | 1.186 | 1.394 | 1.157 |
| | Right | 0.481 | 0.583 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 1.064 | 1.064 | 1.096 | 1.098 | 1.097 | 1.096 |
| | Top | 0.091 | 0.280 | 0.094 | 0.087 | 0.391 | 0.338 | 0.006 | 0.377 | 0.465 | 0.762 | 0.458 | 0.709 | 0.768 |
| Body (Sensor On) | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.800 | 1.200 | 1.200 | 1.200 | 1.200 | 1.200 |
| | Rear | 0.582 | 0.408 | 0.846 | 1.136 | 1.168 | 1.122 | 0.863 | 1.853 | 1.836 | 2.158 | 2.126 | 2.112 | 3.021 |
| | Left | 0.400 | 0.400 | 0.269 | 0.467 | 0.226 | 0.062 | 0.340 | 1.140 | 1.069 | 1.026 | 1.267 | 0.862 | 1.366 |
| | Right | 0.103 | 0.199 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.302 | 0.302 | 0.334 | 0.336 | 0.335 | 0.334 |
| Body (Sensor On) | Top | 0.028 | 0.138 | 0.094 | 0.149 | 0.408 | 0.345 | 0.006 | 0.172 | 0.260 | 0.574 | 0.315 | 0.511 | 0.580 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.800 | 1.200 | 1.200 | 1.200 | 1.200 | 1.200 |



| LTE 66 + 5G NR n5 | | | | | | | | | | | | | | |
|-------------------|-------------|----------|-------|---------------|--------------|-------------|------------|-----------|--------------|--------------|--------------|--------------|--------------|--------------|
| Band / Position | | Band | | | | | | | Summation | | | | | |
| | | licensed | | WLAN | | | | Bluetooth | No.1 | No.2 | No.3 | No.4 | No.5 | No.6 |
| | | | | 2.4 GHz Ant.1 | 2.4 GHz MIMO | 5 GHz Ant.2 | 5 GHz MIMO | | | | | | | |
| | | ① | | ② | ③ | ④ | ⑤ | ⑥ | ①+⑥ | ①+② | ①+④ | ①+③ | ①+⑤ | ①+④+⑥ |
| LTE 66 NR n5 | | | | | | | | | | | | | | |
| Head | Right Cheek | 0.051 | 0.206 | 0.015 | 0.185 | 0.284 | 0.293 | 0.026 | 0.283 | 0.272 | 0.541 | 0.442 | 0.550 | 0.567 |
| | Right Tilt | 0.054 | 0.176 | 0.006 | 0.116 | 0.241 | 0.226 | 0.007 | 0.237 | 0.236 | 0.471 | 0.346 | 0.456 | 0.478 |
| | Left Cheek | 0.136 | 0.401 | 0.000 | 0.073 | 0.150 | 0.160 | 0.007 | 0.544 | 0.537 | 0.687 | 0.610 | 0.697 | 0.694 |
| | Left Tilt | 0.084 | 0.251 | 0.000 | 0.054 | 0.155 | 0.160 | 0.002 | 0.337 | 0.335 | 0.490 | 0.389 | 0.495 | 0.492 |
| Body (Sensor Off) | Rear | 0.482 | 0.534 | 0.389 | 0.512 | 0.858 | 0.896 | 0.051 | 1.067 | 1.405 | 1.874 | 1.528 | 1.912 | 1.925 |
| | Left | 0.400 | 0.400 | 0.364 | 0.386 | 0.226 | 0.594 | 0.131 | 0.931 | 1.164 | 1.026 | 1.186 | 1.394 | 1.157 |
| | Right | 0.722 | 0.583 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 1.305 | 1.305 | 1.337 | 1.339 | 1.338 | 1.337 |
| | Top | 0.078 | 0.280 | 0.094 | 0.087 | 0.391 | 0.338 | 0.006 | 0.364 | 0.452 | 0.749 | 0.445 | 0.696 | 0.755 |
| Body (Sensor On) | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.800 | 1.200 | 1.200 | 1.200 | 1.200 | 1.200 |
| | Rear | 0.350 | 0.408 | 0.846 | 1.136 | 1.168 | 1.122 | 0.863 | 1.621 | 1.604 | 1.926 | 1.894 | 1.880 | 2.789 |
| | Left | 0.400 | 0.400 | 0.269 | 0.467 | 0.226 | 0.062 | 0.340 | 1.140 | 1.069 | 1.026 | 1.267 | 0.862 | 1.366 |
| | Right | 0.057 | 0.199 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.256 | 0.256 | 0.288 | 0.290 | 0.289 | 0.288 |
| Body (Sensor On) | Top | 0.079 | 0.138 | 0.094 | 0.149 | 0.408 | 0.345 | 0.006 | 0.223 | 0.311 | 0.625 | 0.366 | 0.562 | 0.631 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.800 | 1.200 | 1.200 | 1.200 | 1.200 | 1.200 |

| LTE 2(Sub1) + 5G NR n66 | | | | | | | | | | | | | | |
|-------------------------|-------------|----------|-------|---------------|--------------|-------------|------------|-----------|--------------|--------------|--------------|--------------|--------------|--------------|
| Band / Position | | Band | | | | | | | Summation | | | | | |
| | | licensed | | WLAN | | | | Bluetooth | No.1 | No.2 | No.3 | No.4 | No.5 | No.6 |
| | | | | 2.4 GHz Ant.1 | 2.4 GHz MIMO | 5 GHz Ant.2 | 5 GHz MIMO | | | | | | | |
| | | ① | | ② | ③ | ④ | ⑤ | ⑥ | ①+⑥ | ①+② | ①+④ | ①+③ | ①+⑤ | ①+④+⑥ |
| LTE 2 (Sub) NR n66 | | | | | | | | | | | | | | |
| Head | Right Cheek | 0.030 | 0.079 | 0.015 | 0.185 | 0.284 | 0.293 | 0.026 | 0.135 | 0.124 | 0.393 | 0.294 | 0.402 | 0.419 |
| | Right Tilt | 0.008 | 0.045 | 0.006 | 0.116 | 0.241 | 0.226 | 0.007 | 0.060 | 0.059 | 0.294 | 0.169 | 0.279 | 0.301 |
| | Left Cheek | 0.020 | 0.287 | 0.000 | 0.073 | 0.150 | 0.160 | 0.007 | 0.314 | 0.307 | 0.457 | 0.380 | 0.467 | 0.464 |
| | Left Tilt | 0.013 | 0.150 | 0.000 | 0.054 | 0.155 | 0.160 | 0.002 | 0.165 | 0.163 | 0.318 | 0.217 | 0.323 | 0.320 |
| Body (Sensor Off) | Rear | 0.224 | 0.402 | 0.389 | 0.512 | 0.858 | 0.896 | 0.051 | 0.677 | 1.015 | 1.484 | 1.138 | 1.522 | 1.535 |
| | Left | 0.400 | 0.400 | 0.364 | 0.386 | 0.226 | 0.594 | 0.131 | 0.931 | 1.164 | 1.026 | 1.186 | 1.394 | 1.157 |
| | Right | 0.548 | 0.724 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 1.272 | 1.272 | 1.304 | 1.306 | 1.305 | 1.304 |
| | Top | 0.400 | 0.062 | 0.094 | 0.087 | 0.391 | 0.338 | 0.006 | 0.468 | 0.556 | 0.853 | 0.549 | 0.800 | 0.859 |
| Body (Sensor On) | Bottom | 0.264 | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.664 | 1.064 | 1.064 | 1.064 | 1.064 | 1.064 |
| | Rear | 0.500 | 0.423 | 0.846 | 1.136 | 1.168 | 1.122 | 0.863 | 1.786 | 1.769 | 2.091 | 2.059 | 2.045 | 2.954 |
| | Left | 0.400 | 0.400 | 0.269 | 0.467 | 0.226 | 0.062 | 0.340 | 1.140 | 1.069 | 1.026 | 1.267 | 0.862 | 1.366 |
| | Right | 0.134 | 0.085 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.219 | 0.219 | 0.251 | 0.253 | 0.252 | 0.251 |
| Body (Sensor On) | Top | 0.400 | 0.116 | 0.094 | 0.149 | 0.408 | 0.345 | 0.006 | 0.522 | 0.610 | 0.924 | 0.665 | 0.861 | 0.930 |
| | Bottom | 0.266 | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.666 | 1.066 | 1.066 | 1.066 | 1.066 | 1.066 |

| LTE 5 + 5G NR n66 | | | | | | | | | | | | | | |
|----------------------|-------------|----------|-------|------------------|-----------------|----------------|---------------|------------------|-------|-------|-------|-------|---------|-------|
| Band / Position | | Band | | | | | | Summation | | | | | | |
| | | licensed | | WLAN | | | | Bluetooth [⑥] | No.1 | No.2 | No.3 | No.4 | No.5 | No.6 |
| | | | | 2.4 GHz Ant.1 | 2.4 GHz MIMO | 5 GHz Ant.2 | 5 GHz MIMO | | | | | | | |
| | | [①] | | [②] | [③] | [④] | [⑤] | [①+⑥] | [①+②] | [①+④] | [①+③] | [①+⑤] | [①+④+⑥] | |
| LTE 5 NR n66 | | | | | | | | | | | | | | |
| Head | Right Cheek | 0.234 | 0.079 | 0.015 | 0.185 | 0.284 | 0.293 | 0.026 | 0.339 | 0.328 | 0.597 | 0.498 | 0.606 | 0.623 |
| | Right Tilt | 0.180 | 0.045 | 0.006 | 0.116 | 0.241 | 0.226 | 0.007 | 0.232 | 0.231 | 0.466 | 0.341 | 0.451 | 0.473 |
| | Left Cheek | 0.380 | 0.287 | 0.000 | 0.073 | 0.150 | 0.160 | 0.007 | 0.674 | 0.667 | 0.817 | 0.740 | 0.827 | 0.824 |
| | Left Tilt | 0.285 | 0.150 | 0.000 | 0.054 | 0.155 | 0.160 | 0.002 | 0.437 | 0.435 | 0.590 | 0.489 | 0.595 | 0.592 |
| Body (Sensor Off) | Rear | 0.581 | 0.402 | 0.389 | 0.512 | 0.858 | 0.896 | 0.051 | 1.034 | 1.372 | 1.841 | 1.495 | 1.879 | 1.892 |
| | Left | 0.400 | 0.400 | 0.364 | 0.386 | 0.226 | 0.594 | 0.131 | 0.931 | 1.164 | 1.026 | 1.186 | 1.394 | 1.157 |
| | Right | 0.583 | 0.724 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 1.307 | 1.307 | 1.339 | 1.341 | 1.340 | 1.339 |
| | Top | 0.355 | 0.062 | 0.094 | 0.087 | 0.391 | 0.338 | 0.006 | 0.423 | 0.511 | 0.808 | 0.504 | 0.755 | 0.814 |
| Body (Sensor On) | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.800 | 1.200 | 1.200 | 1.200 | 1.200 | 1.200 |
| | Rear | 0.493 | 0.423 | 0.846 | 1.136 | 1.168 | 1.122 | 0.863 | 1.779 | 1.762 | 2.084 | 2.052 | 2.038 | 2.947 |
| | Left | 0.400 | 0.400 | 0.269 | 0.467 | 0.226 | 0.062 | 0.340 | 1.140 | 1.069 | 1.026 | 1.267 | 0.862 | 1.366 |
| | Right | 0.186 | 0.085 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.271 | 0.271 | 0.303 | 0.305 | 0.304 | 0.303 |
| Body (Sensor On) | Top | 0.145 | 0.116 | 0.094 | 0.149 | 0.408 | 0.345 | 0.006 | 0.267 | 0.355 | 0.669 | 0.410 | 0.606 | 0.675 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.800 | 1.200 | 1.200 | 1.200 | 1.200 | 1.200 |

| LTE 12 + 5G NR n66 | | | | | | | | | | | | | | |
|----------------------|-------------|----------|-------|------------------|-----------------|----------------|---------------|------------------|-------|-------|-------|-------|---------|-------|
| Band / Position | | Band | | | | | | Summation | | | | | | |
| | | licensed | | WLAN | | | | Bluetooth [⑥] | No.1 | No.2 | No.3 | No.4 | No.5 | No.6 |
| | | | | 2.4 GHz Ant.1 | 2.4 GHz MIMO | 5 GHz Ant.2 | 5 GHz MIMO | | | | | | | |
| | | [①] | | [②] | [③] | [④] | [⑤] | [①+⑥] | [①+②] | [①+④] | [①+③] | [①+⑤] | [①+④+⑥] | |
| LTE 12 NR n66 | | | | | | | | | | | | | | |
| Head | Right Cheek | 0.160 | 0.079 | 0.015 | 0.185 | 0.284 | 0.293 | 0.026 | 0.265 | 0.254 | 0.523 | 0.424 | 0.532 | 0.549 |
| | Right Tilt | 0.134 | 0.045 | 0.006 | 0.116 | 0.241 | 0.226 | 0.007 | 0.186 | 0.185 | 0.420 | 0.295 | 0.405 | 0.427 |
| | Left Cheek | 0.364 | 0.287 | 0.000 | 0.073 | 0.150 | 0.160 | 0.007 | 0.658 | 0.651 | 0.801 | 0.724 | 0.811 | 0.808 |
| | Left Tilt | 0.279 | 0.150 | 0.000 | 0.054 | 0.155 | 0.160 | 0.002 | 0.431 | 0.429 | 0.584 | 0.483 | 0.589 | 0.586 |
| Body (Sensor Off) | Rear | 0.311 | 0.402 | 0.389 | 0.512 | 0.858 | 0.896 | 0.051 | 0.764 | 1.102 | 1.571 | 1.225 | 1.609 | 1.622 |
| | Left | 0.400 | 0.400 | 0.364 | 0.386 | 0.226 | 0.594 | 0.131 | 0.931 | 1.164 | 1.026 | 1.186 | 1.394 | 1.157 |
| | Right | 0.183 | 0.724 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.907 | 0.907 | 0.939 | 0.941 | 0.940 | 0.939 |
| | Top | 0.363 | 0.062 | 0.094 | 0.087 | 0.391 | 0.338 | 0.006 | 0.431 | 0.519 | 0.816 | 0.512 | 0.763 | 0.822 |
| Body (Sensor On) | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.800 | 1.200 | 1.200 | 1.200 | 1.200 | 1.200 |
| | Rear | 0.439 | 0.423 | 0.846 | 1.136 | 1.168 | 1.122 | 0.863 | 1.725 | 1.708 | 2.030 | 1.998 | 1.984 | 2.893 |
| | Left | 0.400 | 0.400 | 0.269 | 0.467 | 0.226 | 0.062 | 0.340 | 1.140 | 1.069 | 1.026 | 1.267 | 0.862 | 1.366 |
| | Right | 0.125 | 0.085 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.210 | 0.210 | 0.242 | 0.244 | 0.243 | 0.242 |
| Body (Sensor On) | Top | 0.243 | 0.116 | 0.094 | 0.149 | 0.408 | 0.345 | 0.006 | 0.365 | 0.453 | 0.767 | 0.508 | 0.704 | 0.773 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.800 | 1.200 | 1.200 | 1.200 | 1.200 | 1.200 |



| LTE 13 + 5G NR n66 | | | | | | | | | | | | | | |
|----------------------|-------------|----------|-------|------------------|-----------------|----------------|---------------|------------------|-------|-------|-------|-------|---------|-------|
| Band / Position | | Band | | | | | | Summation | | | | | | |
| | | licensed | | WLAN | | | | Bluetooth [⑥] | No.1 | No.2 | No.3 | No.4 | No.5 | No.6 |
| | | | | 2.4 GHz Ant.1 | 2.4 GHz MIMO | 5 GHz Ant.2 | 5 GHz MIMO | | | | | | | |
| | | [①] | | [②] | [③] | [④] | [⑤] | [①+⑥] | [①+②] | [①+④] | [①+③] | [①+⑤] | [①+④+⑥] | |
| LTE 13 NR n66 | | | | | | | | | | | | | | |
| Head | Right Cheek | 0.167 | 0.079 | 0.015 | 0.185 | 0.284 | 0.293 | 0.026 | 0.272 | 0.261 | 0.530 | 0.431 | 0.539 | 0.556 |
| | Right Tilt | 0.128 | 0.045 | 0.006 | 0.116 | 0.241 | 0.226 | 0.007 | 0.180 | 0.179 | 0.414 | 0.289 | 0.399 | 0.421 |
| | Left Cheek | 0.383 | 0.287 | 0.000 | 0.073 | 0.150 | 0.160 | 0.007 | 0.677 | 0.670 | 0.820 | 0.743 | 0.830 | 0.827 |
| | Left Tilt | 0.269 | 0.150 | 0.000 | 0.054 | 0.155 | 0.160 | 0.002 | 0.421 | 0.419 | 0.574 | 0.473 | 0.579 | 0.576 |
| Body (Sensor Off) | Rear | 0.303 | 0.402 | 0.389 | 0.512 | 0.858 | 0.896 | 0.051 | 0.756 | 1.094 | 1.563 | 1.217 | 1.601 | 1.614 |
| | Left | 0.400 | 0.400 | 0.364 | 0.386 | 0.226 | 0.594 | 0.131 | 0.931 | 1.164 | 1.026 | 1.186 | 1.394 | 1.157 |
| | Right | 0.237 | 0.724 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.961 | 0.961 | 0.993 | 0.995 | 0.994 | 0.993 |
| | Top | 0.262 | 0.062 | 0.094 | 0.087 | 0.391 | 0.338 | 0.006 | 0.330 | 0.418 | 0.715 | 0.411 | 0.662 | 0.721 |
| Body (Sensor On) | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.800 | 1.200 | 1.200 | 1.200 | 1.200 | 1.200 |
| | Rear | 0.479 | 0.423 | 0.846 | 1.136 | 1.168 | 1.122 | 0.863 | 1.765 | 1.748 | 2.070 | 2.038 | 2.024 | 2.933 |
| | Left | 0.400 | 0.400 | 0.269 | 0.467 | 0.226 | 0.062 | 0.340 | 1.140 | 1.069 | 1.026 | 1.267 | 0.862 | 1.366 |
| | Right | 0.173 | 0.085 | 0.000 | 0.034 | 0.032 | 0.033 | 0.000 | 0.258 | 0.258 | 0.290 | 0.292 | 0.291 | 0.290 |
| Body (Sensor On) | Top | 0.171 | 0.116 | 0.094 | 0.149 | 0.408 | 0.345 | 0.006 | 0.293 | 0.381 | 0.695 | 0.436 | 0.632 | 0.701 |
| | Bottom | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.000 | 0.800 | 1.200 | 1.200 | 1.200 | 1.200 | 1.200 |

| | | |
|--|---|--|
| <p>Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311 www.kctl.co.kr</p> | <p>Report No.: KR23-SPF0039-A Page (176) of (575)</p> | <p> </p> |
|--|---|--|

Notes:

- Simultaneous transmission SAR test exclusion considerations
Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneously transmitting antenna. When the sum of 1-g or 10-g SAR of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit, SAR test exclusion applies to that simultaneous transmission configuration. Per KDB Publication 447498 D01v06.
- When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR1g 1.6 W/kg), the SPLSR procedures is not required. When the sum of SAR1g is greater than the SAR limit (SAR1g 1.6 W/kg), SAR test exclusion is determined by the SPLSR.
- Yellow entries was verified in section 13.4 by the SPLSR.
- Green entries was applied estimated SAR values.
- Blue entries was applied Sensor off value because the sensor was not applied.



| | | |
|--|---|---|
| <p>Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-5008-1021 FAX: 82-505-299-8311 www.kctl.co.kr</p> | <p>Report No.: KR23-SPF0039-A Page (177) of (575)</p> |   |
|--|---|---|

13.4 SAR to Peak Location Separation Ratio Analysis

The simultaneous transmitting antennas in each operating mode and exposure condition combination are considered one pair at a time to determine the SPLSR. When SAR is measured for both antennas in the pair, the peak location separation distance is computed by the following formula.

$$\text{Peak Location Separation Distance} = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2}$$

Where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the area or zoom scans.

When standalone test exclusion applies, SAR is estimated; the peak location is assumed to be at the feed-point or geometric center of the antenna. Due to curvatures on the SAM phantom, when SAR is estimated for one of the antennas in an antenna pair, the measured peak SAR location will be translated onto the test device to determine the peak location separation for the antenna pair.

The SPLSR is determined by the following formula.

$$\text{SPLSR} = \frac{(\text{SAR}_1 + \text{SAR}_2)^{1.5}}{R_i}$$

Where SAR₁ and SAR₂ are the highest reported or estimated SAR for each antenna in the pair, and R_i is the separation distance between the peak SAR locations for the antenna pair in mm.

When the SPLSR is ≤ 0.04, ≤ 0.10 (10g) the simultaneous transmission SAR is not required. Otherwise, the enlarged zoom scan and volume scan post-processing procedures will be performed.

13.4.1 Hybrid SPLSR Procedure(Standalone)

Nov. 2019 TCB Workshop (SPLSR Hotspot Combination)

For devices whose simultaneous SAR is > 1.6 W/kg and who do not meet the SPLSR criteria, enlarged zoom scan/volume scan procedure is available.

This procedure can be quite time consuming, especially for devices where antennas are spatially separated.

Often needed only because one co-located antenna pair does not meet SPLSR.

Hybrid SPLSR and enlarged zoom scan/volume scan approach now being considered.

Can only be applied when simultaneous transmission SAR is > 1.6 W/kg, it does not meet SPLSR criteria, and antenna pair is co-located.

The Hybrid SPLSR was performed according to the following Test Procedure:

step1) Perform enlarged zoom scan/volume scan on the co-located antenna pair to determine 1g/10g aggregate SAR

Step2) Apply SPLSR procedure for the spatially separated antenna and aggregate SAR distribution of the co-located antenna pair

1. Standalone SAR Numbering

| licensed | WLAN 2.4 GHz Ant.1 | WLAN 2.4 GHz MIMO | WLAN 5 GHz Ant.2 | WLAN 5 GHz MIMO | Bluetooth |
|----------|-----------------------|----------------------|---------------------|--------------------|-----------|
| [①] | [②] | [③] | [④] | [⑤] | [⑥] |

2. Combination for Hybrid SPLSR

| No | Mode (Sensor On/Off) | Position | Combination | Scenario | Scaled 1g SAR | Coordinates | | |
|----|-------------------------|----------|-------------|---------------------------------|------------------|-------------|----------|----------|
| | | | | | | X | Y | Z |
| 1 | Body (Sensor Off) | Rear | ④+⑥ | WLAN 5 GHz Ant.2 + Bluetooth | 0.808 | -0.03900 | -0.09700 | -0.18500 |
| 2 | Body (Sensor On) | Rear | ④+⑥ | WLAN 5 GHz Ant.2 + Bluetooth | 1.160 | -0.03500 | -0.09700 | -0.18400 |

WLAN 5 GHz Ant.2 Standalone Volume Scan Plot – Rear(Sensor Off - Max Power)

Date: 10/30/2023

Test Laboratory: Eurofins KCTL Co.,Ltd.

File Name: [1. WLAN 5.8GHz WIFI2 Body VS.da53:0](#)

DUT: SM-X306B, Type: Tablet, Serial: R32W80015QK

Communication System: UID 0, 5GWLAN (0); Frequency: 5825 MHz; Duty Cycle: 1:1
 Medium parameters used (interpolated): $f = 5825$ MHz; $\sigma = 5.197$ S/m; $\epsilon_r = 34.382$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7840;ConvF(4.72, 4.69, 4.74) @ 5825 MHz; Calibrated: 8/25/2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1758; Calibrated: 8/24/2023
- Phantom: ELI v5.0 sn1178; Type: QDOVA002AA; Serial: TP:1178
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/WLAN5GHz_802.11a_Ch165_WIFI2_Rear_14 mm VS/Volume Scan (24x26x7): Measurement grid:

$dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 14.38 V/m; Power Drift = 0.05 dB

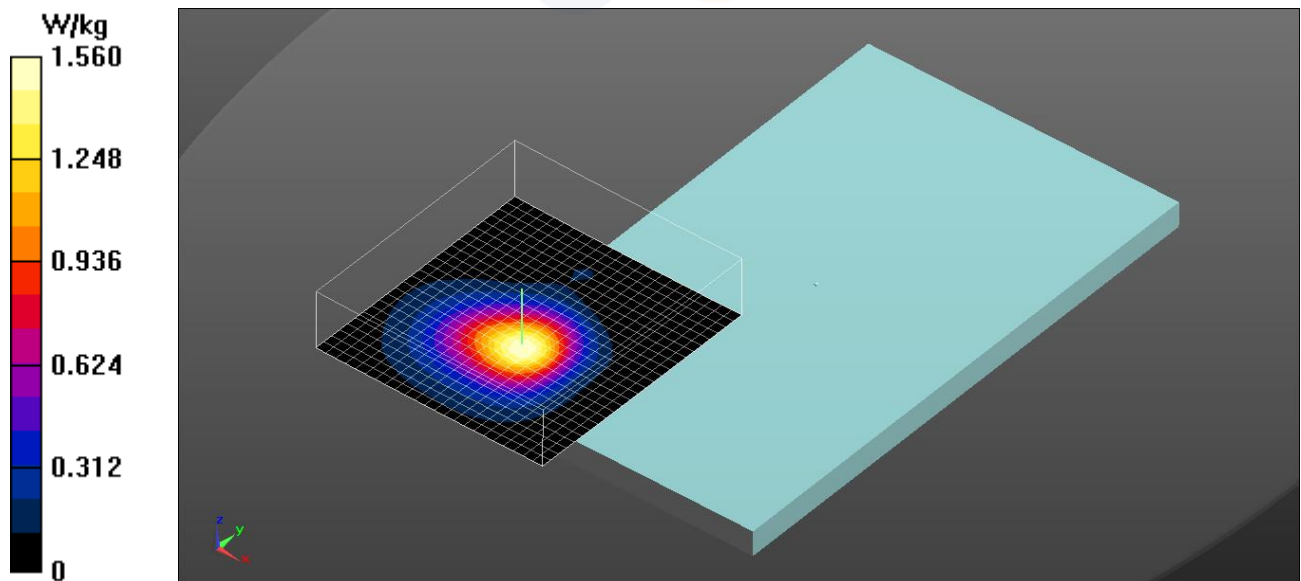
Peak SAR (extrapolated) = 3.80 W/kg

SAR(1 g) = 0.694 W/kg; SAR(10 g) = 0.274 W/kg

Total Absorbed Power = 0.00955 W

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 1.56 W/kg



Bluetooth Standalone Volume Scan Plot – Rear(Sensor Off - Max Power)

Date: 10/11/2023

Test Laboratory: Eurofins KCTL Co.,Ltd.
 File Name: [3. Bluetooth_BDR_Body_VS.da53:0](#)

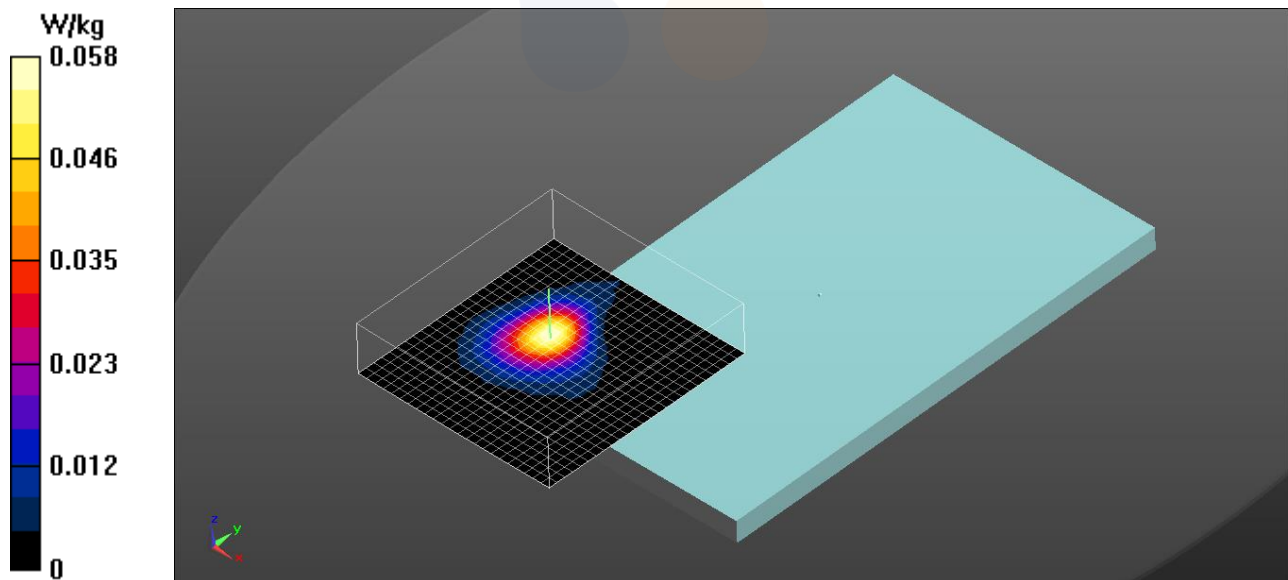
DUT: SM-X306B, Type: Tablet, Serial: R32W80015QK

Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1:1.30167
 Medium parameters used: $f = 2480$ MHz; $\sigma = 1.822$ S/m; $\epsilon_r = 39.842$; $\rho = 1000$ kg/m³
 Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7840;ConvF(6.8, 6.79, 6.85) @ 2480 MHz; Calibrated: 8/25/2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1758; Calibrated: 8/24/2023
- Phantom: ELI v5.0 sn1178; Type: QDOVA002AA; Serial: TP:1178
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/Bluetooth_DH5_BDR_Ch78_Rear_15 mm/Volume Scan (24x26x7): Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
 Reference Value = 5.864 V/m; Power Drift = -0.09 dB
 Peak SAR (extrapolated) = 0.0730 W/kg
SAR(1 g) = 0.036 W/kg; SAR(10 g) = 0.017 W/kg
 Total Absorbed Power = 0.000353 W
 Maximum value of SAR (measured) = 0.0575 W/kg



WLAN 5 GHz Ant.2 Standalone Volume Scan Plot – Rear(Sensor On - Back-off Power)

Date: 10/20/2023

Test Laboratory: Eurofins KCTL Co.,Ltd.

File Name: [2. WLAN 5.8GHz WIFI2 Body VS.da53:0](#)

DUT: SM-X306B, Type: Tablet, Serial: R32W80015QK

Communication System: UID 0, 5GWLAN (0); Frequency: 5785 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 5785$ MHz; $\sigma = 5.116$ S/m; $\epsilon_r = 35.828$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7840;ConvF(4.72, 4.69, 4.74) @ 5785 MHz; Calibrated: 8/25/2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1758; Calibrated: 8/24/2023
- Phantom: ELI v5.0 sn1178; Type: QDOVA002AA; Serial: TP:1178
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/WLAN5GHz_802.11a_Ch157_WIFI2_Rear_0 mm VS/Volume Scan (21x22x7): Measurement grid:

dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 8.227 V/m; Power Drift = -0.07 dB

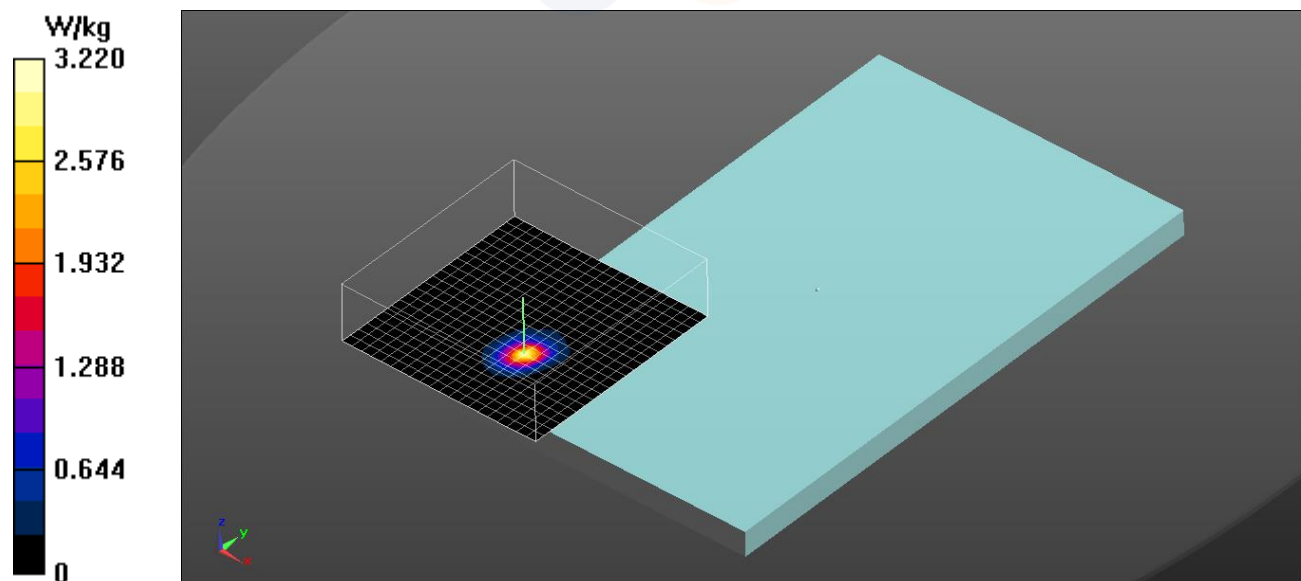
Peak SAR (extrapolated) = 6.00 W/kg

SAR(1 g) = 0.968 W/kg; SAR(10 g) = 0.189 W/kg

Total Absorbed Power = 0.00245 W

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 3.22 W/kg



Bluetooth Standalone Volume Scan Plot – Rear(Sensor On - Back-off Power)

Date: 10/11/2023

Test Laboratory: Eurofins KCTL Co.,Ltd.

File Name: [4. Bluetooth LE Body VS.da53:0](#)

DUT: SM-X306B, Type: Tablet, Serial: R32W80015QK

Communication System: UID 0, Bluetooth LE (0); Frequency: 2402 MHz; Duty Cycle: 1:1.02683
Medium parameters used (interpolated): $f = 2402$ MHz; $\sigma = 1.76$ S/m; $\epsilon_r = 39.903$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7840;ConvF(6.8, 6.79, 6.85) @ 2402 MHz; Calibrated: 8/25/2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1758; Calibrated: 8/24/2023
- Phantom: ELI v5.0 sn1178; Type: QDOVA002AA; Serial: TP:1178
- Measurement SW: DASY52, Version 52.10 (4);

Configuration/Bluetooth_LE_125 Coded 255_CH0_Rear_0 mm Grip Sensor On_VS/Volume Scan (24x26x7):

Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 30.74 V/m; Power Drift = -0.12 dB

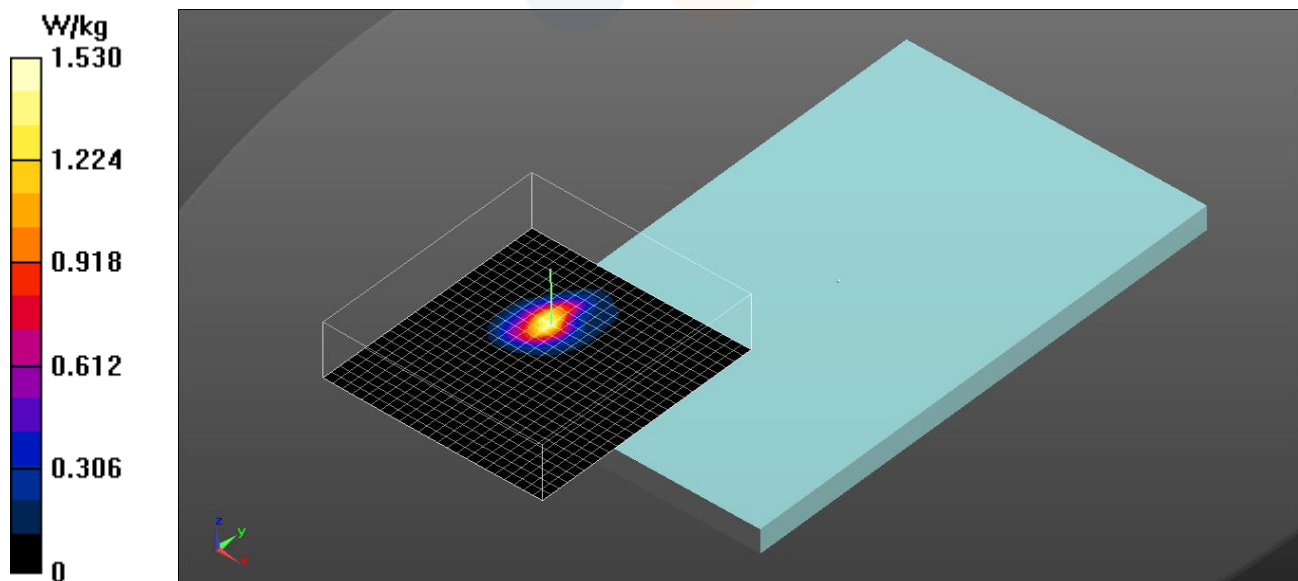
Peak SAR (extrapolated) = 2.27 W/kg

SAR(1 g) = 0.736 W/kg; SAR(10 g) = 0.254 W/kg

Total Absorbed Power = 0.00444 W

Info: [Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.53 W/kg



No.1 : Sensor Off Volume Scan Scenario : WLAN 5 GHz Ant.2 + Bluetooth

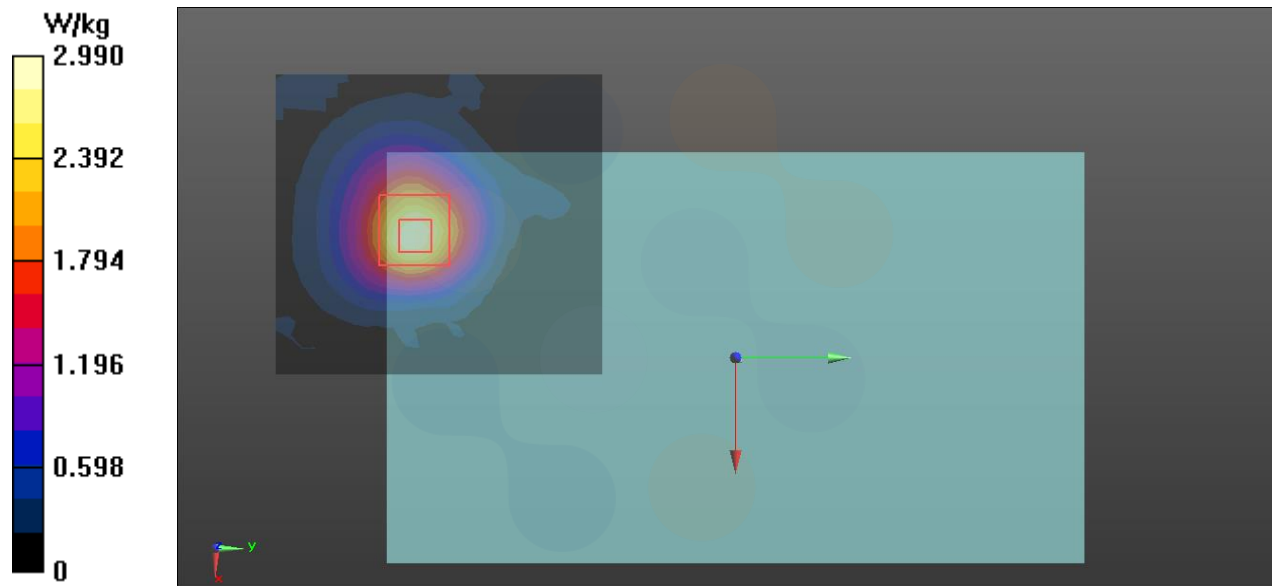
Multi-Band Average SAR
Multi-Band Configurations:

DASY Configuration for Configuration/WLAN5GHz_802.11a_Ch165_WIFI2_Rear_14 mm VS/Volume Scan:

DASY Configuration for Configuration/Bluetooth_DH5_BDR_Ch78_Rear_15 mm/Volume Scan:

Multi Band Result:

SAR(1 g) = 0.808 W/kg; SAR(10 g) = 0.322 W/kg
Maximum value of SAR (interpolated) = 2.99 W/kg



No.2 : Sensor On Volume Scan Scenario : WLAN 5 GHz Ant.2 + Bluetooth

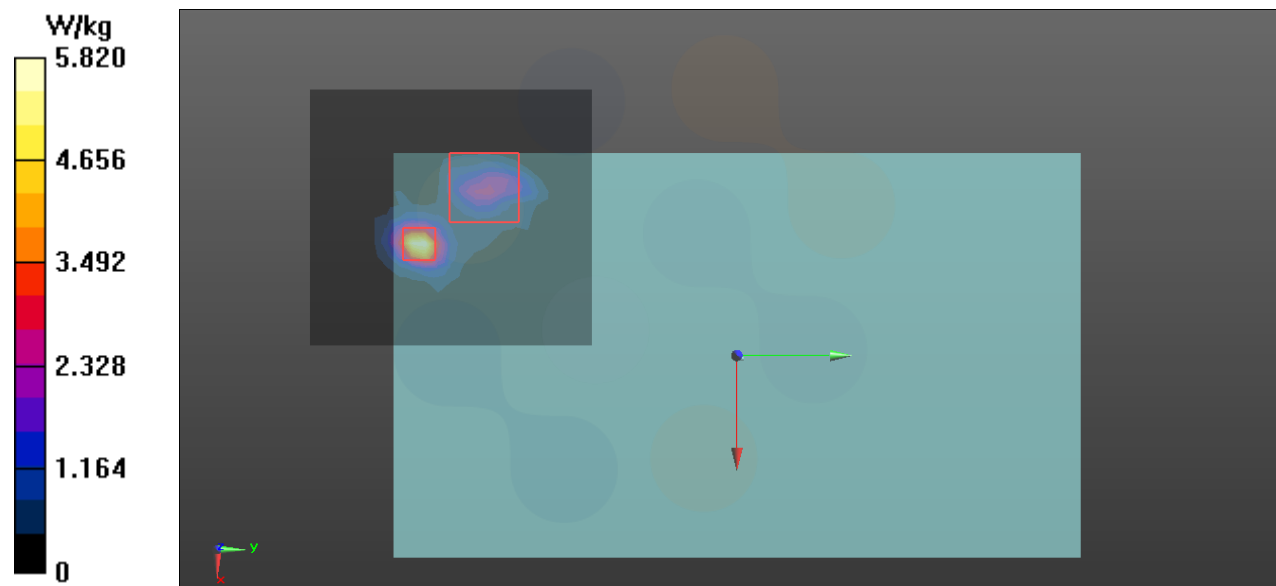
Multi-Band Average SAR
Multi-Band Configurations:

DASY Configuration for Configuration/WLAN5GHz_802.11a_Ch157_WIFI2_Rear_0 mm VS/Volume Scan:

DASY Configuration for Configuration/Bluetooth_LE_125 Coded 255_CH0_Rear_0 mm Grip Sensor On_VS/Volume Scan:

Multi Band Result:

SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.321 W/kg
Maximum value of SAR (interpolated) = 5.82 W/kg



13.4.2 Standalone SPLSR(Hybrid) Analysis

Summary Table (Sensor On)

| Band | Mode | Simultaneous Scenario No. | Highest SPLSR ≤ 0.04 Limit | Volume scan | Analysis Page |
|--------------------|------|---------------------------|----------------------------|---------------------|---------------|
| | | | | Required (Yes / No) | |
| GSM 850 | Body | 6 | 0.03 | No | 187 |
| GSM 1900 | | 3 | 0.03 | No | 188 |
| | | 4 | 0.02 | No | 189 |
| | | 5 | 0.02 | No | 190 |
| | | 6 | 0.03 | No | 191 |
| WCDMA Band II | | 3 | 0.03 | No | 192 |
| | | 4 | 0.03 | No | 193 |
| | | 5 | 0.03 | No | 194 |
| | | 6 | 0.03 | No | 195 |
| WCDMA Band IV | | 1 | 0.02 | No | 196 |
| | | 2 | 0.02 | No | 197 |
| | | 3 | 0.03 | No | 198 |
| | | 4 | 0.03 | No | 199 |
| | | 5 | 0.03 | No | 200 |
| | | 6 | 0.03 | No | 201 |
| WCDMA Band V | | 3 | 0.03 | No | 202 |
| | | 4 | 0.02 | No | 203 |
| | | 6 | 0.03 | No | 204 |
| LTE Band 2 (Main1) | | 3 | 0.03 | No | 205 |
| | | 4 | 0.02 | No | 206 |
| | | 5 | 0.02 | No | 207 |
| | | 6 | 0.03 | No | 208 |
| LTE Band 2 (Sub1) | | 3 | 0.01 | No | 209 |
| | | 4 | 0.01 | No | 210 |
| | | 5 | 0.01 | No | 211 |
| | | 6 | 0.01 | No | 212 |
| LTE Band 5 | | 3 | 0.03 | No | 213 |
| | | 4 | 0.02 | No | 214 |
| | 5 | 0.03 | No | 215 | |
| | 6 | 0.03 | No | 216 | |
| LTE Band 12 | 3 | 0.03 | No | 217 | |
| | 6 | 0.03 | No | 218 | |
| LTE Band 13 | 3 | 0.03 | No | 219 | |
| | 4 | 0.02 | No | 220 | |
| | 5 | 0.03 | No | 221 | |
| | 6 | 0.03 | No | 222 | |

| Band | Mode | Simultaneous Scenario No. | Highest SPLSR ≤ 0.04 Limit | Volume scan | Analysis Page |
|-------------|------|---------------------------|----------------------------|---------------------|---------------|
| | | | | Required (Yes / No) | |
| LTE Band 26 | Body | 3 | 0.03 | No | 223 |
| | | 4 | 0.03 | No | 224 |
| | | 5 | 0.03 | No | 225 |
| | | 6 | 0.03 | No | 226 |
| LTE Band 41 | | 3 | 0.04 | No | 227 |
| | | 4 | 0.03 | No | 228 |
| | | 6 | 0.04 | No | 229 |
| LTE Band 66 | | 6 | 0.02 | No | 230 |
| 5G NR n5 | | 6 | 0.03 | No | 231 |
| 5G NR n66 | | 6 | 0.02 | No | 232 |

