# TEST REPORT

**Report Number:** 14040868-E8V2

| | | |
|---|---|---|
| **Applicant** | : | APPLE, INC.<br>1 APPLE PARK WAY<br>CUPERTINO, CA 95014, U.S.A. |
| **Model** | : | A2632 |
| **Brand** | : | APPLE |
| **FCC ID** | : | BCG-E8139A |
| **EUT Description** | : | SMARTPHONE |
| **Test Standard(s)** | : | FCC CFR 47 PART 2, 22H, 24E, 27, 90S, 90R, AND 96 |

**Date Of Issue:**
AUGUST 11, 2022

**Prepared by:**
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ACCREDITED
CERT #0751.05

## Revision History

| Rev. | Issue Date | Revisions | Revised By |
|---|---|---|---|
| V1 | 8/4/2022 | Initial Review | Eric Ting |
| V2 | 8/11/2022 | Address TCB questions section 2, 6.2, 6.4 and 9 | Eric Ting |

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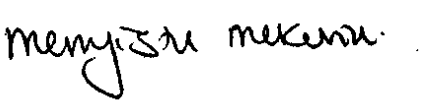
# 1. ATTESTATION OF TEST RESULTS

| | |
|---|---|
| Applicant Name and Address | APPLE, INC<br>1 APPLE PARK WAY<br>CUPERTINO, CA 95014, U.S.A |
| Model | A2632 |
| Brand | APPLE |
| FCC ID | BCG-E8139A |
| EUT Description | SMARTPHONE |
| Serial Number | Conducted (C7205400BJ1LYT2U), Radiated (KFJ2592MFD) and (KCF16NH2M0) |
| Sample Receipt Date | APRIL 20, 2022 |
| Date Tested | APRIL 21, 2022 to JULY 08, 2022 |
| Applicable Standards | FCC CFR47 2, 22H, 24E, 27, 90S, 90R, AND 96 |
| Test Results | COMPLIES |

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document.

| Approved & Released By: | Reviewed By: | Prepared By: |
|---|---|---|
|  |  |  |
| Mengistu Mekuria<br>Operations Leader<br>UL LLC | Eric Ting<br>Test Engineer<br>UL LLC | Tony Li<br>Test Engineer<br>UL LLC |

# 2. SUMMARY OF TEST RESULTS

This report contains data provided by the customer which can impact the validity of results. UL LLC is only responsible for the validity of results after the integration of the data provided by the customer.

| Requirement Description | Band | Requirement Clause Number (FCC) | Result | Remarks |
|---|---|---|---|---|
| RF Conducted Output Power | 26 (90S) | 2.1046 , 90.635 (b) | Complies | |
| Effective Radiated Power | 5, 26 | 22.913 (a)(5) | Complies | |
| | 12 | 27.50 (c) (10) | Complies | |
| | 13 | 27.50 (b ) (10) | Complies | |
| | 14 | 90.541 (d) | Complies | |
| | 17 | 27.50 (c) (10) | Complies | |
| Equivalent Isotropic Radiated Power | 2, 25 | 24.232 (c ) | Complies | |
| | 4, 66 | 27.50 (d) (4) | Complies | |
| | 70 | 27.50 (d) (4) | Complies | |
| | 5 | - | Complies | |
| | 30 | 27.50 (a) (3) | Complies | |
| | 7, 41, 38 | 27.50 (h) (2) | Complies | |
| | 48 | 96.41 (b) | Complies | |
| | 71 | 27.50 (c) (10) | Complies | |
| | 77 | 96.41 (b), 27.50 (j) (3), (k) (3) | Complies | |
| | 78 | - | Complies | |

| Requirement Description | Requirement Clause Number (FCC) | Result* | Remarks |
|---|---|---|---|
| Occupied Bandwidth | 2.1049 | Complies | |
| Band Edge and Emission Mask | 2.1051, 22.917 (a), 24.238 (a), 27.53 (h), 27.53 (m)(4) & (m) (6), 96.41(e) , 27.53 (g), 27.53 (c) (f), 27.53(a), 27.53(l), 90.543 (e)(f), 90.691 (a), 96.41(e) | Complies | |
| Out of Band Emissions | 2.1051, 22.917 (a), 24.238 (a), 27.53 (h), 27.53 (m)(4) & (m) (6), 96.41(e) , 27.53 (g), 27.53 (c) (f), 27.53(a), 27.53(l), 90.543 (e)(f), 90.691 (a), 96.41(e) | Complies | |
| Frequency Stability | 2.1055, 22.355, 24.235, 27.54, 90.539, 90.213 | Complies | |
| Peak-to-Average Ratio | 22.913 (d), 24.232 (d), 27.50 (d) (5), 27.50 (j) (4), 96.41 (g) | Complies | |
| Field Strength of Spurious Radiation | 2.1053, 22.917 (a), 24.238 (a), 27.53 (h), 27.53 (m)(4) & (m) (6), 96.41(e) , 27.53 (g), 27.53 (c) (f), 27.53(a), 27.53(l), 90.543 (e)(f), 90.691 (a), 96.41(e) | Complies | |

# 3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with the following:

- ANSI C63.26:2015
- FCC CFR 47 Part 2, Part 22, Part 24, Part 27, Part 90, and Part 96
- FCC KDB 971168 D01 v03r01: Power Meas License Digital Systems
- FCC KDB 971168 D02 v02r01: Misc Rev Approv License Devices
- FCC KDB 412172 D01 v01r01. Determining ERP and EIRP

# 4. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

| | Address | ISED CABID | ISED Company Number | FCC Registration |
|---|---|---|---|---|
| ☒ | Building 1: 47173 Benicia Street, Fremont, CA 94538, USA | US0104 | 2324A | 550739 |
| ☒ | Building 2: 47266 Benicia Street, Fremont, CA 94538, USA | US0104 | 22541 | 550739 |
| ☐ | Building 4: 47658 Kato Rd, Fremont, CA 94538, USA | US0104 | 2324B | 550739 |

# 5. DECISION RULES AND MEASUREMENT UNCERTAINTY

## 5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

## 5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

## 5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| PARAMETER | $U_{Lab}$ |
|---|---|
| Worst Case Radiated Disturbance, 9KHz to 30 MHz | 2.84 dB |
| Worst Case Radiated Disturbance, 30 to 1000 MHz | 6.01 dB |
| Worst Case Radiated Disturbance, 1000 to 18000 MHz | 4.73 dB |
| Worst Case Radiated Disturbance, 18000 to 26000 MHz | 4.51 dB |
| Worst Case Radiated Disturbance, 26000 to 40000 MHz | 5.29 dB |
| Occupied Channel Bandwidth | ±1.22 % |
| Temperature | ±2.26% |
| Supply voltages | ±0.57 % |
| Time | ±3.39 % |

Uncertainty figures are valid to a confidence level of 95%.

## 5.4. SAMPLE CALCULATION

**RADIATED EMISSIONS**

Where relevant, the following sample calculation is provided:
Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)
36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

# 6. EQUIPMENT UNDER TEST

## 6.1. DESCRIPTION OF EUT

The Apple iPhone is a smartphone with multimedia functions (music, application support, and video),cellular GSM, GPRS, EGPRS, UMTS, LTE, 5G FR1, IEEE 802.11a/b/g/n/ac/ax, Bluetooth, Ultra-Wideband, GPS, NFC and MSS. All models except refetence model support at least one UICC based SIM. The second SIM is either an UICC based p-SIM (physical SIM) or e-SIM (electronic SIM). The device supports a built-in inductive charging transmitter and receiver. The rechargeable battery is not user accessible.

Testing was performed on the parent model and is used to support the application for the parent and variants identified in this report based on the test plan submitted and approved via KDB inquiry by the FCC and by ISED-Canada.

## 6.2. MAXIMUM OUTPUT POWER

**EIRP/ERP TEST PROCEDURE**

ANSI C63.26:2015
KDB 971168 D01 Section 5.6

ERP/EIRP = PMeas + GT − LC
where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);
PMeas = measured transmitter output power or PSD, in dBm or dBW;
GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

EUT includes different power levels for head use configuration and body use configuration and the below tables contain the highest of all configurations average conducted and ERP/EIRP output powers as follows:

## LTE BAND 5

| Part 22H | |
|---|---|
| ERP Limit (W) | 7.00 |
| Antenna Gain (dBi) (Ant 1) | -5.70 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | ERP Average (dBm) | ERP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 1.4 | QPSK | 824.7 | 848.3 | 25.70 | 17.85 | 0.061 | 1090 | 1M09G7W |
| | 16QAM | | | 25.32 | 17.47 | 0.056 | 1094 | 1M09D7W |
| 3.0 | QPSK | 825.5 | 847.5 | 25.70 | 17.85 | 0.061 | 2700 | 2M70G7W |
| | 16QAM | | | 25.43 | 17.58 | 0.057 | 2707 | 2M71D7W |
| 5.0 | QPSK | 826.5 | 846.5 | 25.70 | 17.85 | 0.061 | 4499 | 4M50G7W |
| | 16QAM | | | 25.40 | 17.55 | 0.057 | 4498 | 4M50D7W |
| 10.0 | QPSK | 829.0 | 844.0 | 25.70 | 17.85 | 0.061 | 8980 | 8M98G7W |
| | 16QAM | | | 25.45 | 17.60 | 0.058 | 8989 | 8M99D7W |

## 5G NR n5

| Part 22H | |
|---|---|
| ERP Limit (W) | 7.00 |
| Antenna Gain (dBi) (Ant 1) | -5.70 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | ERP Average (dBm) | ERP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 5.0 | BPSK | 826.5 | 846.5 | 25.70 | 17.85 | 0.061 | 4516 | 4M52G7W |
| | QPSK | | | 25.70 | 17.85 | 0.061 | 4483 | 4M48G7W |
| | 16QAM | | | 25.28 | 17.43 | 0.055 | 4475 | 4M48D7W |
| 10.0 | BPSK | 829.0 | 844.0 | 25.70 | 17.85 | 0.061 | 8976 | 8M98G7W |
| | QPSK | | | 25.70 | 17.85 | 0.061 | 8965 | 8M97G7W |
| | 16QAM | | | 25.27 | 17.42 | 0.055 | 8950 | 8M95D7W |
| 15.0 | BPSK | 831.5 | 841.5 | 25.70 | 17.85 | 0.061 | 13412 | 13M4G7W |
| | QPSK | | | 25.70 | 17.85 | 0.061 | 13353 | 13M4G7W |
| | 16QAM | | | 25.23 | 17.38 | 0.055 | 13411 | 13M4D7W |
| 20.0 | BPSK | 834.0 | 839.0 | 25.70 | 17.85 | 0.061 | 17837 | 17M8G7W |
| | QPSK | | | 25.70 | 17.85 | 0.061 | 17843 | 17M8G7W |
| | 16QAM | | | 25.30 | 17.45 | 0.056 | 17860 | 17M9D7W |

## LTE BAND 7

| Part 27 | |
|---|---|
| EIRP Limit (W) | 2.00 |
| Antenna Gain (dBi) (Ant 3) | -0.60 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 5.0 | QPSK | 2502.5 | 2567.5 | 25.00 | 24.40 | 0.275 | 4501 | 4M50G7W |
| | 16QAM | | | 24.41 | 23.81 | 0.240 | 4514 | 4M51D7W |
| 10.0 | QPSK | 2505.0 | 2565.0 | 25.00 | 24.40 | 0.275 | 8987 | 8M99G7W |
| | 16QAM | | | 24.34 | 23.74 | 0.237 | 9001 | 9M00D7W |
| 15.0 | QPSK | 2507.5 | 2562.5 | 25.00 | 24.40 | 0.275 | 13470 | 13M5G7W |
| | 16QAM | | | 24.32 | 23.72 | 0.236 | 13467 | 13M5D7W |
| 20.0 | QPSK | 2510.0 | 2560.0 | 25.00 | 24.40 | 0.275 | 17936 | 17M9G7W |
| | 16QAM | | | 24.47 | 23.87 | 0.244 | 17944 | 17M9D7W |

## 5G NR n7

| Part 27 | |
|---|---|
| EIRP Limit (W) | 2.00 |
| Antenna Gain (dBi) (Ant 3) | -0.60 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 5.0 | BPSK | 2502.5 | 2567.5 | 25.00 | 24.40 | 0.275 | 4528 | 4M53G7W |
| | QPSK | | | 25.00 | 24.40 | 0.275 | 4494 | 4M49G7W |
| | 16QAM | | | 24.47 | 23.87 | 0.244 | 4463 | 4M46D7W |
| 10.0 | BPSK | 2505.0 | 2565.0 | 24.92 | 24.32 | 0.270 | 8986 | 8M99G7W |
| | QPSK | | | 25.00 | 24.40 | 0.275 | 8973 | 8M97G7W |
| | 16QAM | | | 24.44 | 23.84 | 0.242 | 8973 | 8M97D7W |
| 15.0 | BPSK | 2507.5 | 2562.5 | 24.98 | 24.38 | 0.274 | 13432 | 13M4G7W |
| | QPSK | | | 25.00 | 24.40 | 0.275 | 13410 | 13M4G7W |
| | 16QAM | | | 24.53 | 23.93 | 0.247 | 13382 | 13M4D7W |
| 20.0 | BPSK | 2510.0 | 2560.0 | 24.92 | 24.32 | 0.270 | 17852 | 17M9G7W |
| | QPSK | | | 25.00 | 24.40 | 0.275 | 17918 | 17M9G7W |
| | 16QAM | | | 24.45 | 23.85 | 0.243 | 17874 | 17M9D7W |
| 25.0 | BPSK | 2512.5 | 2557.5 | 24.97 | 24.37 | 0.274 | 22906 | 22M9G7W |
| | QPSK | | | 25.00 | 24.40 | 0.275 | 22912 | 22M9G7W |
| | 16QAM | | | 24.55 | 23.95 | 0.248 | 22857 | 22M9D7W |
| 30.0 | BPSK | 2515.0 | 2555.0 | 25.00 | 24.40 | 0.275 | 28581 | 28M6G7W |
| | QPSK | | | 25.00 | 24.40 | 0.275 | 28505 | 28M5G7W |
| | 16QAM | | | 24.54 | 23.94 | 0.248 | 28486 | 28M5D7W |
| 40.0 | BPSK | 2520.0 | 2550.0 | 25.00 | 24.40 | 0.275 | 38575 | 38M6G7W |
| | QPSK | | | 25.00 | 24.40 | 0.275 | 38529 | 38M5G7W |
| | 16QAM | | | 24.55 | 23.95 | 0.248 | 38540 | 38M5D7W |

## LTE BAND 12

| Part 27 | |
|---|---|
| ERP Limit (W) | 3.00 |
| Antenna Gain (dBi) (Ant 1) | -5.10 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | ERP Average (dBm) | ERP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 1.4 | QPSK | 699.7 | 715.3 | 25.70 | 18.45 | 0.070 | 1091 | 1M09G7W |
| | 16QAM | | | 25.14 | 17.89 | 0.062 | 1095 | 1M10D7W |
| 3.0 | QPSK | 700.5 | 714.5 | 25.70 | 18.45 | 0.070 | 2703 | 2M70G7W |
| | 16QAM | | | 25.41 | 18.16 | 0.065 | 2701 | 2M70D7W |
| 5.0 | QPSK | 701.5 | 713.5 | 25.70 | 18.45 | 0.070 | 4497 | 4M50G7W |
| | 16QAM | | | 25.41 | 18.16 | 0.065 | 4500 | 4M50D7W |
| 10.0 | QPSK | 704.0 | 711.0 | 25.70 | 18.45 | 0.070 | 8967 | 8M97G7W |
| | 16QAM | | | 25.44 | 18.19 | 0.066 | 8971 | 8M97D7W |

## 5G NR n12

| Part 27 | |
|---|---|
| ERP Limit (W) | 3.00 |
| Antenna Gain (dBi) (Ant 1) | -5.10 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | ERP Average (dBm) | ERP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 5.0 | BPSK | 701.5 | 713.5 | 25.66 | 18.41 | 0.069 | 4532 | 4M53G7W |
| | QPSK | | | 25.70 | 18.45 | 0.070 | 4534 | 4M53G7W |
| | 16QAM | | | 25.07 | 17.82 | 0.061 | 4494 | 4M49D7W |
| 10.0 | BPSK | 704.0 | 711.0 | 25.70 | 18.45 | 0.070 | 8966 | 8M97G7W |
| | QPSK | | | 25.70 | 18.45 | 0.070 | 8958 | 8M96G7W |
| | 16QAM | | | 24.89 | 17.64 | 0.058 | 8943 | 8M94D7W |
| 15.0 | BPSK | 706.5 | 708.5 | 25.70 | 18.45 | 0.070 | 13442 | 13M4G7W |
| | QPSK | | | 25.70 | 18.45 | 0.070 | 13427 | 13M4G7W |
| | 16QAM | | | 24.95 | 17.70 | 0.059 | 13383 | 13M4D7W |

## LTE BAND 13

| Part 27 | |
|---|---|
| ERP Limit (W) | 3.00 |
| Antenna Gain (dBi) (Ant 1) | -4.80 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | ERP Average (dBm) | ERP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 5.0 | QPSK | 779.5 | 784.5 | 25.70 | 18.75 | 0.075 | 4508 | 4M51G7W |
| | 16QAM | | | 25.34 | 18.39 | 0.069 | 4506 | 4M51D7W |
| 10.0 | QPSK | 782.0 | 782.0 | 25.70 | 18.75 | 0.075 | 8968 | 8M97G7W |
| | 16QAM | | | 25.41 | 18.46 | 0.070 | 8975 | 8M98D7W |

## LTE BAND 14

| Part 90R | |
|---|---|
| ERP Limit (W) | 3.00 |
| Antenna Gain (dBi) (Ant 1) | -4.80 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | ERP Average (dBm) | ERP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 5.0 | QPSK | 790.5 | 795.5 | 25.70 | 18.75 | 0.075 | 4491 | 4M49G7W |
| | 16QAM | | | 25.43 | 18.48 | 0.070 | 4498 | 4M50D7W |
| 10.0 | QPSK | 793.0 | 793.0 | 25.70 | 18.75 | 0.075 | 8957 | 8M96G7W |
| | 16QAM | | | 25.35 | 18.40 | 0.069 | 8963 | 8M96D7W |

## 5G NR n14

| Part 90R | |
|---|---|
| ERP Limit (W) | 3.00 |
| Antenna Gain (dBi) (Ant 1) | -4.80 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | ERP Average (dBm) | ERP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 5.0 | BPSK | 790.5 | 795.5 | 25.70 | 18.75 | 0.075 | 4533 | 4M53G7W |
| | QPSK | | | 25.70 | 18.75 | 0.075 | 4491 | 4M49G7W |
| | 16QAM | | | 24.95 | 18.00 | 0.063 | 4482 | 4M48D7W |
| 10.0 | BPSK | 793.0 | 793.0 | 25.70 | 18.75 | 0.075 | 8988 | 8M99G7W |
| | QPSK | | | 25.67 | 18.72 | 0.074 | 8946 | 8M95G7W |
| | 16QAM | | | 24.87 | 17.92 | 0.062 | 8951 | 8M95D7W |

## LTE BAND 17

| Part 27 | |
|---|---|
| ERP Limit (W) | 3.00 |
| Antenna Gain (dBi) (Ant 1) | -5.10 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | ERP Average (dBm) | ERP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 5.0 | QPSK | 706.5 | 713.5 | 25.70 | 18.45 | 0.070 | 4517 | 4M52G7W |
| | 16QAM | | | 25.42 | 18.17 | 0.066 | 4504 | 4M50D7W |
| 10.0 | QPSK | 709.0 | 711.0 | 25.70 | 18.45 | 0.070 | 8978 | 8M98G7W |
| | 16QAM | | | 25.35 | 18.10 | 0.065 | 8986 | 8M99D7W |

## LTE BAND 25

| Part 24 | |
|---|---|
| EIRP Limit (W) | 2.00 |
| Antenna Gain (dBi) (Ant 3) | -1.00 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 1.4 | QPSK | 1850.7 | 1914.3 | 25.20 | 24.20 | 0.263 | 1097 | 1M10G7W |
| | 16QAM | | | 24.58 | 23.58 | 0.228 | 1098 | 1M10D7W |
| 3.0 | QPSK | 1851.5 | 1913.5 | 25.20 | 24.20 | 0.263 | 2703 | 2M70G7W |
| | 16QAM | | | 24.61 | 23.61 | 0.230 | 2707 | 2M71D7W |
| 5.0 | QPSK | 1852.5 | 1912.5 | 25.20 | 24.20 | 0.263 | 4497 | 4M50G7W |
| | 16QAM | | | 24.58 | 23.58 | 0.228 | 4501 | 4M50D7W |
| 10.0 | QPSK | 1855.0 | 1910.0 | 25.20 | 24.20 | 0.263 | 8980 | 8M98G7W |
| | 16QAM | | | 24.64 | 23.64 | 0.231 | 8982 | 8M98D7W |
| 15.0 | QPSK | 1857.5 | 1907.5 | 25.20 | 24.20 | 0.263 | 13457 | 13M5G7W |
| | 16QAM | | | 24.50 | 23.50 | 0.224 | 13481 | 13M5D7W |
| 20.0 | QPSK | 1860.0 | 1905.0 | 25.20 | 24.20 | 0.263 | 17932 | 17M9G7W |
| | 16QAM | | | 24.75 | 23.75 | 0.237 | 17947 | 17M9D7W |

## 5G NR n25

| Part 24 | |
|---|---|
| EIRP Limit (W) | 2.00 |
| Antenna Gain (dBi) (Ant 3 ) | -1.00 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 5.0 | BPSK | 1852.5 | 1912.5 | 25.20 | 24.20 | 0.263 | 4514 | 4M51G7W |
| | QPSK | | | 25.20 | 24.20 | 0.263 | 4481 | 4M48G7W |
| | 16QAM | | | 24.76 | 23.76 | 0.238 | 4501 | 4M50D7W |
| 10.0 | BPSK | 1855.0 | 1910.0 | 25.20 | 24.20 | 0.263 | 8981 | 8M98G7W |
| | QPSK | | | 25.20 | 24.20 | 0.263 | 8951 | 8M95G7W |
| | 16QAM | | | 24.67 | 23.67 | 0.233 | 8947 | 8M95D7W |
| 15.0 | BPSK | 1857.5 | 1907.5 | 25.20 | 24.20 | 0.263 | 13466 | 13M5G7W |
| | QPSK | | | 25.19 | 24.19 | 0.262 | 13429 | 13M4G7W |
| | 16QAM | | | 24.74 | 23.74 | 0.237 | 13378 | 13M4D7W |
| 20.0 | BPSK | 1860.0 | 1905.0 | 25.20 | 24.20 | 0.263 | 17947 | 17M9G7W |
| | QPSK | | | 25.20 | 24.20 | 0.263 | 17918 | 17M9G7W |
| | 16QAM | | | 24.72 | 23.72 | 0.236 | 17938 | 17M9D7W |
| 25.0 | BPSK | 1862.5 | 1902.5 | 25.20 | 24.20 | 0.263 | 22917 | 22M9G7W |
| | QPSK | | | 25.20 | 24.20 | 0.263 | 22904 | 22M9G7W |
| | 16QAM | | | 24.71 | 23.71 | 0.235 | 22879 | 22M9D7W |
| 30.0 | BPSK | 1865.0 | 1900.0 | 25.20 | 24.20 | 0.263 | 28617 | 28M6G7W |
| | QPSK | | | 25.20 | 24.20 | 0.263 | 28546 | 28M5G7W |
| | 16QAM | | | 24.75 | 23.75 | 0.237 | 28610 | 28M6D7W |
| 40.0 | BPSK | 1870.0 | 1895.0 | 25.20 | 24.20 | 0.263 | 38542 | 38M5G7W |
| | QPSK | | | 25.17 | 24.17 | 0.261 | 38527 | 38M5G7W |
| | 16QAM | | | 24.71 | 23.71 | 0.235 | 38504 | 38M5D7W |

## LTE BAND 26 (FCC Part 90S)

| Part 90S | |
|---|---|
| Conducted Limit (W) | 100.00 |
| Antenna Gain (dBi) (Ant 1) | -5.70 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | Conducted Average (W) | ERP Average (dBm) | ERP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|---|
| 1.4 | QPSK | 814.7 | 823.3 | 25.70 | 0.372 | 17.85 | 0.061 | 1090 | 1M09G7W |
| | 16QAM | | | 25.31 | 0.340 | 17.46 | 0.056 | 1095 | 1M10D7W |
| 3.0 | QPSK | 815.5 | 822.5 | 25.70 | 0.372 | 17.85 | 0.061 | 2696 | 2M70G7W |
| | 16QAM | | | 25.37 | 0.344 | 17.52 | 0.056 | 2703 | 2M70D7W |
| 5.0 | QPSK | 816.5 | 821.5 | 25.70 | 0.372 | 17.85 | 0.061 | 4498 | 4M50G7W |
| | 16QAM | | | 25.32 | 0.340 | 17.47 | 0.056 | 4503 | 4M50D7W |
| 10.0 | QPSK | 819.0 | 819.0 | 25.70 | 0.372 | 17.85 | 0.061 | 8973 | 8M97G7W |
| | 16QAM | | | 25.33 | 0.341 | 17.48 | 0.056 | 8993 | 8M99D7W |

**5G NR n26 (FCC Part 90S)**

| Part 90S | |
|---|---|
| Conducted Limit (W) | 100.00 |
| Antenna Gain (dBi)_(Ant1) | -5.70 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | Conducted Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|
| 5.0 | BPSK | 816.5 | 821.5 | 25.69 | 0.371 | 4470 | 4M47G7W |
| | QPSK | | | 25.70 | 0.372 | 4468 | 4M47G7W |
| | 16QAM | | | 24.96 | 0.313 | 4471 | 4M47D7W |
| 10.0 | BPSK | 819.0 | 819.0 | 25.68 | 0.370 | 8931 | 8M93G7W |
| | QPSK | | | 25.70 | 0.372 | 8931 | 8M93G7W |
| | 16QAM | | | 24.94 | 0.312 | 8892 | 8M89D7W |

**LTE BAND 26 (FCC Part 22)**

| Part 22 | |
|---|---|
| ERP Limit (W) | 7.00 |
| Antenna Gain (dBi)_(Ant1) | -5.70 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | ERP Average (dBm) | ERP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 1.4 | QPSK | 824.7 | 848.3 | 25.70 | 17.85 | 0.061 | 1091 | 1M09G7W |
| | 16QAM | | | 25.28 | 17.43 | 0.055 | 1093 | 1M09D7W |
| 3.0 | QPSK | 825.5 | 847.5 | 25.70 | 17.85 | 0.061 | 2703 | 2M70G7W |
| | 16QAM | | | 25.28 | 17.43 | 0.055 | 2702 | 2M70D7W |
| 5.0 | QPSK | 826.5 | 846.5 | 25.70 | 17.85 | 0.061 | 4503 | 4M50G7W |
| | 16QAM | | | 25.35 | 17.50 | 0.056 | 4499 | 4M50D7W |
| 10.0 | QPSK | 829.0 | 844.0 | 25.70 | 17.85 | 0.061 | 8967 | 8M97G7W |
| | 16QAM | | | 25.31 | 17.46 | 0.056 | 8989 | 8M99D7W |

**5G NR n26 (FCC Part 22)**

| Part 22 | |
|---|---|
| ERP Limit (W) | 7.00 |
| Antenna Gain (dBi)_(Ant1) | -5.70 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | ERP Average (dBm) | ERP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 5.0 | BPSK | 826.5 | 846.5 | 25.70 | 17.85 | 0.061 | 4520 | 4M52G7W |
| | QPSK | | | 25.65 | 17.80 | 0.060 | 4500 | 4M50G7W |
| | 16QAM | | | 24.94 | 17.09 | 0.051 | 4503 | 4M50D7W |
| 10.0 | BPSK | 829.0 | 844.0 | 25.70 | 17.85 | 0.061 | 8989 | 8M99G7W |
| | QPSK | | | 25.70 | 17.85 | 0.061 | 8992 | 8M99G7W |
| | 16QAM | | | 24.96 | 17.11 | 0.051 | 8969 | 8M97D7W |

## LTE BAND 30

| Part 27 / RSS 195 | |
|---|---|
| EIRP Limit (W) | 0.25 |
| Antenna Gain (dBi) (Ant 3) | -0.10 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 5.0 | QPSK | 2307.5 | 2312.5 | 23.60 | 23.50 | 0.224 | 4501 | 4M50G7W |
| | 16QAM | | | 23.59 | 23.49 | 0.223 | 4507 | 4M51D7W |
| 10.0 | QPSK | 2310.0 | 2310.0 | 23.60 | 23.50 | 0.224 | 8987 | 8M99G7W |
| | 16QAM | | | 22.98 | 22.88 | 0.194 | 8976 | 8M98D7W |

## 5G NR n30

| Part 27 | |
|---|---|
| EIRP Limit (W) | 0.25 |
| Antenna Gain (dBi) (Ant 3) | -0.10 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 5.0 | BPSK | 2307.5 | 2312.5 | 23.60 | 23.50 | 0.224 | 4529 | 4M53G7W |
| | QPSK | | | 23.58 | 23.48 | 0.223 | 4496 | 4M50G7W |
| | 16QAM | | | 23.08 | 22.98 | 0.199 | 4495 | 4M50D7W |
| 10.0 | BPSK | 2310.0 | 2310.0 | 23.53 | 23.43 | 0.220 | 8982 | 8M98G7W |
| | QPSK | | | 23.60 | 23.50 | 0.224 | 8962 | 8M96G7W |
| | 16QAM | | | 22.78 | 22.68 | 0.185 | 8970 | 8M97D7W |

## LTE BAND 41

| Part 27 | |
|---|---|
| EIRP Limit (W) | 2.00 |
| Antenna Gain (dBi) (Ant 3) | -0.60 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 5.0 | QPSK | 2498.5 | 2687.5 | 28.00 | 27.40 | 0.550 | 4495 | 4M50G7W |
| | 16QAM | | | 27.87 | 27.27 | 0.533 | 4489 | 4M49D7W |
| 10.0 | QPSK | 2501.0 | 2685.0 | 28.00 | 27.40 | 0.550 | 8988 | 8M99G7W |
| | 16QAM | | | 27.68 | 27.08 | 0.511 | 8985 | 8M99D7W |
| 15.0 | QPSK | 2503.5 | 2682.5 | 28.00 | 27.40 | 0.550 | 13456 | 13M5G7W |
| | 16QAM | | | 27.70 | 27.10 | 0.513 | 13468 | 13M5D7W |
| 20.0 | QPSK | 2506.0 | 2680.0 | 28.00 | 27.40 | 0.550 | 17936 | 17M9G7W |
| | 16QAM | | | 27.89 | 27.29 | 0.536 | 17940 | 17M9D7W |

## 5G NR n41

| Part 27 | |
|---|---|
| EIRP Limit (W) | 2.00 |
| Antenna Gain (dBi) (Ant 3) | -0.60 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 20.0 | BPSK | 2506.5 | 2680.0 | 28.00 | 27.40 | 0.550 | 17916 | 17M9G7W |
| | QPSK | | | 27.96 | 27.36 | 0.545 | 17947 | 17M9G7W |
| | 16QAM | | | 27.10 | 26.50 | 0.447 | 17958 | 18M0D7W |
| 30.0 | BPSK | 2511.0 | 2675.0 | 28.00 | 27.40 | 0.550 | 26856 | 26M9G7W |
| | QPSK | | | 27.97 | 27.37 | 0.546 | 26871 | 26M9G7W |
| | 16QAM | | | 27.19 | 26.59 | 0.456 | 26886 | 26M9D7W |
| 40.0 | BPSK | 2516.0 | 2670.0 | 28.00 | 27.40 | 0.550 | 35803 | 35M8G7W |
| | QPSK | | | 28.00 | 27.40 | 0.550 | 35717 | 35M7G7W |
| | 16QAM | | | 27.27 | 26.67 | 0.465 | 35706 | 35M7D7W |
| 50.0 | BPSK | 2521.0 | 2665.0 | 28.00 | 27.40 | 0.550 | 45792 | 45M8G7W |
| | QPSK | | | 27.98 | 27.38 | 0.547 | 45806 | 45M8G7W |
| | 16QAM | | | 27.11 | 26.51 | 0.448 | 45792 | 45M8D7W |
| 60.0 | BPSK | 2526.0 | 2660.0 | 28.00 | 27.40 | 0.550 | 57851 | 57M9G7W |
| | QPSK | | | 28.00 | 27.40 | 0.550 | 57952 | 58M0G7W |
| | 16QAM | | | 27.16 | 26.56 | 0.453 | 57962 | 58M0D7W |
| 70.0 | BPSK | 2531.0 | 2655.0 | 28.00 | 27.40 | 0.550 | 64405 | 64M4D7W |
| | QPSK | | | 28.00 | 27.40 | 0.550 | 64528 | 64M5D7W |
| | 16QAM | | | 26.98 | 26.38 | 0.435 | 64456 | 64M5D7W |
| 80.0 | BPSK | 2536.0 | 2650.0 | 28.00 | 27.40 | 0.550 | 77008 | 77M0G7W |
| | QPSK | | | 27.94 | 27.34 | 0.542 | 77017 | 77M0G7W |
| | 16QAM | | | 27.03 | 26.43 | 0.440 | 77023 | 77M0D7W |
| 90.0 | BPSK | 2541.0 | 2645.0 | 28.00 | 27.40 | 0.550 | 86433 | 86M4G7W |
| | QPSK | | | 27.72 | 27.12 | 0.515 | 86490 | 86M5G7W |
| | 16QAM | | | 27.24 | 26.64 | 0.461 | 86490 | 86M5D7W |
| 100.0 | BPSK | 2546.0 | 2640.0 | 28.00 | 27.40 | 0.550 | 96201 | 96M2G7W |
| | QPSK | | | 27.82 | 27.22 | 0.527 | 96385 | 96M4G7W |
| | 16QAM | | | 27.37 | 26.77 | 0.475 | 96398 | 96M4D7W |

## LTE BAND 48

### Low Channel

| Part 96 | |
|---|---|
| EIRP Limit (W)/ 10MHz | 0.20 |
| Antenna Gain (dBi) Ant 7 | -1.50 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 5.0 | QPSK | 3552.5 | 3697.5 | 23.90 | 22.40 | 0.174 | 4506 | 4M51G7W |
| | 16QAM | | | 23.53 | 22.03 | 0.160 | 4505 | 4M51D7W |
| 10.0 | QPSK | 3555.0 | 3695.0 | 23.90 | 22.40 | 0.174 | 8979 | 8M98G7W |
| | 16QAM | | | 23.55 | 22.05 | 0.160 | 8923 | 8M92D7W |
| 15.0 | QPSK | 3557.5 | 3692.5 | 23.90 | 22.40 | 0.174 | 13357 | 13M4G7W |
| | 16QAM | | | 23.59 | 22.09 | 0.162 | 13363 | 13M4D7W |
| 20.0 | QPSK | 3560.0 | 3690.0 | 23.90 | 22.40 | 0.174 | 17936 | 17M9G7W |
| | 16QAM | | | 23.86 | 22.36 | 0.172 | 17828 | 17M8D7W |

### MIDDLE CHANNEL

| Part 96 | |
|---|---|
| EIRP Limit (W)/ 10MHz | 0.20 |
| Antenna Gain (dBi)_(Ant9) | 0.80 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 5.0 | QPSK | 3552.5 | 3697.5 | 21.30 | 22.10 | 0.162 | 4506 | 4M51G7W |
| | 16QAM | | | 21.09 | 21.89 | 0.155 | 4505 | 4M51D7W |
| 10.0 | QPSK | 3555.0 | 3695.0 | 21.30 | 22.10 | 0.162 | 8979 | 8M98G7W |
| | 16QAM | | | 20.90 | 21.70 | 0.148 | 8923 | 8M92D7W |
| 15.0 | QPSK | 3557.5 | 3692.5 | 21.30 | 22.10 | 0.162 | 13357 | 13M4G7W |
| | 16QAM | | | 21.30 | 22.10 | 0.162 | 13363 | 13M4D7W |
| 20.0 | QPSK | 3560.0 | 3690.0 | 21.30 | 22.10 | 0.162 | 17936 | 17M9G7W |
| | 16QAM | | | 20.31 | 21.11 | 0.129 | 17828 | 17M8D7W |

### HIGH CHANNEL

| Part 96 | |
|---|---|
| EIRP Limit (W)/ 10MHz | 0.20 |
| Antenna Gain (dBi)_(Ant9) | 1.20 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 5.0 | QPSK | 3552.5 | 3697.5 | 21.30 | 22.50 | 0.178 | 4506 | 4M51G7W |
| | 16QAM | | | 20.93 | 22.13 | 0.163 | 4505 | 4M51D7W |
| 10.0 | QPSK | 3555.0 | 3695.0 | 21.30 | 22.50 | 0.178 | 8979 | 8M98G7W |
| | 16QAM | | | 21.00 | 22.20 | 0.166 | 8923 | 8M92D7W |
| 15.0 | QPSK | 3557.5 | 3692.5 | 21.19 | 22.39 | 0.173 | 13357 | 13M4G7W |
| | 16QAM | | | 21.19 | 22.39 | 0.173 | 13363 | 13M4D7W |
| 20.0 | QPSK | 3560.0 | 3690.0 | 21.30 | 22.50 | 0.178 | 17936 | 17M9G7W |
| | 16QAM | | | 21.30 | 22.50 | 0.178 | 17828 | 17M8D7W |

## LTE BAND 66

| Part 27 | |
|---|---|
| EIRP Limit (W) | 1.00 |
| Antenna Gain (dBi) (Ant 2) | -1.00 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 1.4 | QPSK | 1710.7 | 1779.3 | 25.70 | 24.70 | 0.295 | 1086 | 1M09G7W |
| | 16QAM | | | 25.23 | 24.23 | 0.265 | 1086 | 1M09D7W |
| 3.0 | QPSK | 1711.5 | 1778.5 | 25.70 | 24.70 | 0.295 | 2681 | 2M68G7W |
| | 16QAM | | | 25.35 | 24.35 | 0.272 | 2682 | 2M68D7W |
| 5.0 | QPSK | 1712.5 | 1777.5 | 25.70 | 24.70 | 0.295 | 4500 | 4M50G7W |
| | 16QAM | | | 25.29 | 24.29 | 0.269 | 4511 | 4M51D7W |
| 10.0 | QPSK | 1715.0 | 1775.0 | 25.70 | 24.70 | 0.295 | 8976 | 8M98G7W |
| | 16QAM | | | 25.32 | 24.32 | 0.270 | 8979 | 8M98D7W |
| 15.0 | QPSK | 1717.5 | 1772.5 | 25.70 | 24.70 | 0.295 | 13473 | 13M5G7W |
| | 16QAM | | | 25.27 | 24.27 | 0.267 | 13442 | 13M4D7W |
| 20.0 | QPSK | 1720.0 | 1770.0 | 25.70 | 24.70 | 0.295 | 17931 | 17M9G7W |
| | 16QAM | | | 25.33 | 24.33 | 0.271 | 17914 | 17M9D7W |

## 5G NR n66

| Part 27 | |
|---|---|
| EIRP Limit (W) | 1.00 |
| Antenna Gain (dBi) (Ant 2) | -1.00 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 5.0 | BPSK | 1712.5 | 1777.5 | 25.70 | 24.70 | 0.295 | 4522 | 4M52G7W |
| | QPSK | | | 25.57 | 24.57 | 0.286 | 4546 | 4M55G7W |
| | 16QAM | | | 25.69 | 24.69 | 0.294 | 4543 | 4M54D7W |
| 10.0 | BPSK | 1715.0 | 1775.0 | 25.70 | 24.70 | 0.295 | 8938 | 8M94G7W |
| | QPSK | | | 25.70 | 24.70 | 0.295 | 8934 | 8M93G7W |
| | 16QAM | | | 25.63 | 24.63 | 0.290 | 8949 | 8M95D7W |
| 15.0 | BPSK | 1717.5 | 1772.5 | 25.70 | 24.70 | 0.295 | 13430 | 13M4G7W |
| | QPSK | | | 25.70 | 24.70 | 0.295 | 13432 | 13M4G7W |
| | 16QAM | | | 25.68 | 24.68 | 0.294 | 13431 | 13M4D7W |
| 20.0 | BPSK | 1720.0 | 1770.0 | 25.70 | 24.70 | 0.295 | 17839 | 17M8G7W |
| | QPSK | | | 25.53 | 24.53 | 0.284 | 17824 | 17M8G7W |
| | 16QAM | | | 25.65 | 24.65 | 0.292 | 17448 | 17M4D7W |
| 30.0 | BPSK | 1725.0 | 1765.0 | 25.70 | 24.70 | 0.295 | 28545 | 28M5G7W |
| | QPSK | | | 25.70 | 24.70 | 0.295 | 28558 | 28M6G7W |
| | 16QAM | | | 25.19 | 24.19 | 0.262 | 28571 | 28M6D7W |
| 40.0 | BPSK | 1730.0 | 1760.0 | 25.70 | 24.70 | 0.295 | 38493 | 38M5G7W |
| | QPSK | | | 25.70 | 24.70 | 0.295 | 38570 | 38M6G7W |
| | 16QAM | | | 25.68 | 24.68 | 0.294 | 38571 | 38M6D7W |

**5G NR n70**

| Part 27 | |
|---|---|
| EIRP Limit (W) | 1.00 |
| Antenna Gain (dBi) (Ant 2) | -1.60 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 5.0 | BPSK | 1697.5 | 1707.5 | 25.70 | 24.10 | 0.257 | 4525 | 4M53G7W |
| | QPSK | | | 25.70 | 24.10 | 0.257 | 4523 | 4M52G7W |
| | 16QAM | | | 25.67 | 24.07 | 0.255 | 4524 | 4M52D7W |
| 10.0 | BPSK | 1700.0 | 1705.0 | 25.70 | 24.10 | 0.257 | 8955 | 8M96G7W |
| | QPSK | | | 25.70 | 24.10 | 0.257 | 8973 | 8M97G7W |
| | 16QAM | | | 25.70 | 24.10 | 0.257 | 8970 | 8M97D7W |
| 15.0 | BPSK | 1702.5 | 1702.5 | 25.48 | 23.88 | 0.244 | 13340 | 13M3G7W |
| | QPSK | | | 25.70 | 24.10 | 0.257 | 13408 | 13M4G7W |
| | 16QAM | | | 25.54 | 23.94 | 0.248 | 13414 | 13M4D7W |

**LTE BAND 71**

| Part 27 | |
|---|---|
| ERP Limit (W) | 3.00 |
| Antenna Gain (dBi)(Ant 1) | -5.50 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | ERP Average (dBm) | ERP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 5.0 | QPSK | 665.5 | 695.5 | 25.70 | 18.05 | 0.064 | 4497 | 4M50G7W |
| | 16QAM | | | 25.39 | 17.74 | 0.059 | 4498 | 4M50D7W |
| 10.0 | QPSK | 668.0 | 693.0 | 25.70 | 18.05 | 0.064 | 8944 | 8M94G7W |
| | 16QAM | | | 25.29 | 17.64 | 0.058 | 8964 | 8M96D7W |
| 15.0 | QPSK | 670.5 | 690.5 | 25.70 | 18.05 | 0.064 | 13434 | 13M4G7W |
| | 16QAM | | | 25.19 | 17.54 | 0.057 | 13407 | 13M4D7W |
| 20.0 | QPSK | 673.0 | 688.0 | 25.70 | 18.05 | 0.064 | 17884 | 17M9G7W |
| | 16QAM | | | 25.37 | 17.72 | 0.059 | 17884 | 17M9D7W |

## 5G NR n71

| Part 27 | |
|---|---|
| ERP Limit (W) | 3.00 |
| Antenna Gain (dBi)_(Ant1) | -5.50 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | ERP Average (dBm) | ERP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 5.0 | BPSK | 665.5 | 695.5 | 25.68 | 18.03 | 0.064 | 4533 | 4M53G7W |
| | QPSK | | | 25.70 | 18.05 | 0.064 | 4531 | 4M53G7W |
| | 16QAM | | | 24.87 | 17.22 | 0.053 | 4528 | 4M53D7W |
| 10.0 | BPSK | 668.0 | 693.0 | 25.70 | 18.05 | 0.064 | 8987 | 8M99G7W |
| | QPSK | | | 25.70 | 18.05 | 0.064 | 8979 | 8M98G7W |
| | 16QAM | | | 24.88 | 17.23 | 0.053 | 8975 | 8M98D7W |
| 15.0 | BPSK | 670.5 | 690.5 | 25.70 | 18.05 | 0.064 | 13389 | 13M4G7W |
| | QPSK | | | 25.70 | 18.05 | 0.064 | 13399 | 13M4G7W |
| | 16QAM | | | 24.99 | 17.34 | 0.054 | 13376 | 13M4D7W |
| 20.0 | BPSK | 673.0 | 688.0 | 25.70 | 18.05 | 0.064 | 17756 | 17M8G7W |
| | QPSK | | | 25.70 | 18.05 | 0.064 | 17798 | 17M8G7W |
| | 16QAM | | | 24.88 | 17.23 | 0.053 | 17835 | 17M8D7W |

## 5G NR n77 (FCC Part 27 3450-3550MHz)

| Part 27 | |
|---|---|
| EIRP Limit (W) | 1.00 |
| Antenna Gain (dBi) (Ant 9) | 1.40 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 10.0 | BPSK | 3455.0 | 3545.0 | 27.40 | 28.80 | 0.759 | 8632 | 8M63G7W |
| | QPSK | | | 26.88 | 28.28 | 0.673 | 8622 | 8M62G7W |
| | 16QAM | | | 26.22 | 27.62 | 0.578 | 8602 | 8M60D7W |
| 15.0 | BPSK | 3457.5 | 3542.5 | 27.40 | 28.80 | 0.759 | 12925 | 12M9G7W |
| | QPSK | | | 26.76 | 28.16 | 0.655 | 12929 | 12M9G7W |
| | 16QAM | | | 26.16 | 27.56 | 0.570 | 12920 | 12M9D7W |
| 20.0 | BPSK | 3460.0 | 3540.0 | 27.40 | 28.80 | 0.759 | 17797 | 17M8G7W |
| | QPSK | | | 26.68 | 28.08 | 0.643 | 17839 | 17M8G7W |
| | 16QAM | | | 25.96 | 27.36 | 0.545 | 17804 | 17M8D7W |
| 30.0 | BPSK | 3465.0 | 3535.0 | 27.40 | 28.80 | 0.759 | 26787 | 26M8G7W |
| | QPSK | | | 26.65 | 28.05 | 0.638 | 26695 | 26M7G7W |
| | 16QAM | | | 25.98 | 27.38 | 0.547 | 26702 | 26M7D7W |
| 40.0 | BPSK | 3470.0 | 3530.0 | 27.40 | 28.80 | 0.759 | 35706 | 35M7G7W |
| | QPSK | | | 26.97 | 28.37 | 0.687 | 35681 | 35M7G7W |
| | 16QAM | | | 26.05 | 27.45 | 0.556 | 35646 | 35M6D7W |
| 50.0 | BPSK | 3475.0 | 3525.0 | 27.40 | 28.80 | 0.759 | 45541 | 45M5G7W |
| | QPSK | | | 27.00 | 28.40 | 0.692 | 45543 | 45M5G7W |
| | 16QAM | | | 26.18 | 27.58 | 0.573 | 45535 | 45M5D7W |
| 60.0 | BPSK | 3480.0 | 3520.0 | 27.40 | 28.80 | 0.759 | 57761 | 57M8G7W |
| | QPSK | | | 26.94 | 28.34 | 0.682 | 57651 | 57M7G7W |
| | 16QAM | | | 26.24 | 27.64 | 0.581 | 57739 | 57M7D7W |
| 70.0 | BPSK | 3485.0 | 3515.0 | 27.40 | 28.80 | 0.759 | 64154 | 64M2G7W |
| | QPSK | | | 27.29 | 28.69 | 0.740 | 64123 | 64M1G7W |
| | 16QAM | | | 26.35 | 27.75 | 0.596 | 64177 | 64M2D7W |
| 80.0 | BPSK | 3490.0 | 3510.0 | 27.40 | 28.80 | 0.759 | 77114 | 77M1G7W |
| | QPSK | | | 27.10 | 28.50 | 0.708 | 76965 | 77M0G7W |
| | 16QAM | | | 26.49 | 27.89 | 0.615 | 77022 | 77M0D7W |
| 90.0 | BPSK | 3495.0 | 3505.0 | 27.40 | 28.80 | 0.759 | 86905 | 86M9G7W |
| | QPSK | | | 27.16 | 28.56 | 0.718 | 86798 | 86M8G7W |
| | 16QAM | | | 26.22 | 27.62 | 0.578 | 86584 | 86M6D7W |
| 100.0 | BPSK | 3500.0 | 3500.0 | 27.40 | 28.80 | 0.759 | 96444 | 96M4G7W |
| | QPSK | | | 26.57 | 27.97 | 0.627 | 96125 | 96M1G7W |
| | 16QAM | | | 25.25 | 26.65 | 0.462 | 96093 | 96M1D7W |

## 5G NR n77 (FCC Part 27 3700-3980MHz)

| Part 27 | |
|---|---|
| EIRP Limit (W) | 1.00 |
| Antenna Gain (dBi)(Ant 9) | 2.10 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 10.0 | BPSK | 3705.0 | 3975.0 | 27.40 | 29.50 | 0.891 | 8626 | 8M63G7W |
| | QPSK | | | 27.33 | 29.43 | 0.877 | 8578 | 8M58G7W |
| | 16QAM | | | 26.79 | 28.89 | 0.774 | 8577 | 8M58D7W |
| 15.0 | BPSK | 3707.5 | 3972.5 | 27.40 | 29.50 | 0.891 | 12915 | 12M9G7W |
| | QPSK | | | 27.08 | 29.18 | 0.828 | 12853 | 12M9G7W |
| | 16QAM | | | 26.49 | 28.59 | 0.723 | 12853 | 12M9D7W |
| 20.0 | BPSK | 3710.0 | 3970.0 | 27.40 | 29.50 | 0.891 | 17848 | 17M8G7W |
| | QPSK | | | 27.24 | 29.34 | 0.859 | 17841 | 17M8G7W |
| | 16QAM | | | 26.51 | 28.61 | 0.726 | 17855 | 17M9D7W |
| 30.0 | BPSK | 3715.0 | 3965.0 | 27.40 | 29.50 | 0.891 | 26784 | 26M8G7W |
| | QPSK | | | 27.16 | 29.26 | 0.843 | 26735 | 26M7G7W |
| | 16QAM | | | 26.48 | 28.58 | 0.721 | 26743 | 26M7D7W |
| 40.0 | BPSK | 3720.0 | 3960.0 | 27.40 | 29.50 | 0.891 | 35675 | 35M7G7W |
| | QPSK | | | 27.11 | 29.21 | 0.834 | 35760 | 35M8G7W |
| | 16QAM | | | 26.50 | 28.60 | 0.724 | 35696 | 35M7D7W |
| 50.0 | BPSK | 3725.0 | 3955.0 | 27.40 | 29.50 | 0.891 | 45627 | 45M6G7W |
| | QPSK | | | 27.27 | 29.37 | 0.865 | 45603 | 45M6G7W |
| | 16QAM | | | 26.67 | 28.77 | 0.753 | 45637 | 45M6D7W |
| 60.0 | BPSK | 3730.0 | 3950.0 | 27.40 | 29.50 | 0.891 | 57874 | 57M9G7W |
| | QPSK | | | 27.39 | 29.49 | 0.889 | 57832 | 57M8G7W |
| | 16QAM | | | 26.92 | 29.02 | 0.798 | 57845 | 57M8D7W |
| 70.0 | BPSK | 3735.0 | 3945.0 | 27.40 | 29.50 | 0.891 | 64336 | 64M3G7W |
| | QPSK | | | 27.32 | 29.42 | 0.875 | 64198 | 64M2G7W |
| | 16QAM | | | 26.72 | 28.82 | 0.762 | 64318 | 64M3D7W |
| 80.0 | BPSK | 3740.0 | 3940.0 | 27.40 | 29.50 | 0.891 | 77202 | 77M2G7W |
| | QPSK | | | 27.40 | 29.50 | 0.891 | 77289 | 77M3G7W |
| | 16QAM | | | 26.87 | 28.97 | 0.789 | 77241 | 77M2D7W |
| 90.0 | BPSK | 3745.0 | 3935.0 | 27.40 | 29.50 | 0.891 | 87080 | 87M1G7W |
| | QPSK | | | 27.40 | 29.50 | 0.891 | 87159 | 87M2G7W |
| | 16QAM | | | 26.89 | 28.99 | 0.793 | 87053 | 87M1D7W |
| 100.0 | BPSK | 3750.0 | 3930.0 | 27.40 | 29.50 | 0.891 | 96418 | 96M4G7W |
| | QPSK | | | 27.40 | 29.50 | 0.891 | 96589 | 96M6G7W |
| | 16QAM | | | 26.73 | 28.83 | 0.764 | 96447 | 96M4D7W |

## 6.3. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was version: 0.15.02.

## 6.4. MAXIMUM ANTENNA GAIN

The antenna(s) gain(s) and type, as provided by the manufacturer' are as follows:

| LTE and 5G NR Bands | Frequency Range (MHz) | ANT 1 Antenna Gain (dBi) | ANT 2 Antenna Gain (dBi) | ANT 3 Antenna Gain (dBi) | ANT 4 Antenna Gain (dBi) | ANT 7 Antenna Gain (dBi) | ANT 8 Antenna Gain (dBi) | ANT 9 Antenna Gain (dBi) |
|---|---|---|---|---|---|---|---|---|
| LTE Band 2, 5G NR n2 | 1850 – 1910 | -2.1 | -1.1 | -1.0 | -2.4 | | | |
| LTE Band 4, 5G NR n4 | 1710 – 1755 | -3.4 | -0.7 | -1.2 | -1.7 | | | |
| LTE Band 5, 5G NR n5 | 824 – 849 | -5.7 | -6.1 | | | | | |
| LTE Band 7, 5G NR n7 | 2500 – 2570 | -1.7 | -2.9 | -0.6 | -2.1 | | | |
| LTE Band 12, 5G NR n12 | 699 – 716 | -5.1 | -5.4 | | | | | |
| LTE Band 13 | 777 – 787 | -4.8 | -5.1 | | | | | |
| LTE Band 14, 5G NR n14 | 788 – 798 | -4.8 | -5.1 | | | | | |
| LTE Band 17 | 704 – 716 | -5.1 | -5.4 | | | | | |
| LTE Band 25, 5G NR n25 | 1850 – 1915 | -2.1 | -1.1 | -1.0 | -2.4 | | | |
| LTE Band 26, 5G NR n26 | 814 – 849 | -5.7 | -6.1 | | | | | |
| LTE Band 30, 5G NR n30 | 2305 – 2315 | -3.2 | -3.8 | -0.1 | -1.0 | | | |
| LTE Band 41, 5G NR n41 | 2496 – 2690 | -1.7 | -2.9 | -0.6 | -2.0 | | | |
| LTE Band 48 (Low) | 3550 – 3600 | | | | -1.5 | -1.5 | -3.6 | 0.7 |
| LTE Band 48 (Mid) | 3600 – 3650 | | | | -1.3 | -1.9 | -2.4 | 0.8 |
| LTE Band 48 (High) | 3650 – 3700 | | | | -0.4 | -1.7 | -0.8 | 1.2 |
| LTE Band 66, 5G NR n66 | 1710 – 1780 | -1.5 | -1.0 | -1.8 | -2.1 | | | |
| 5G NR n70 | 1695 – 1710 | -3.9 | -1.6 | -1.5 | -2.5 | | | |
| LTE Band 71, 5G NR n71 | 663 – 698 | -5.5 | -5.2 | | | | | |
| 5G NR n77 | 3450 – 3550 | | | | -2.7 | -2.3 | -4.5 | 1.4 |
| 5G NR n77 | 3700 – 3980 | | | | 0 | -0.5 | 0 | 2.1 |

## 6.5. WORST-CASE CONFIGURATION AND MODE

The EUT supports the following LTE and 5G NRs:
Band 2, Band 4, Band 5, Band 7, Band 12, Band 13, Band 14, Band 17, Band 25, Band 26, Band 30, Band 41, Band 48, Band 66, Band 71, 5G NR n2, 5G NR n5, 5G NR n7, 5G NR n12, 5G NR n14, 5G NR n25, 5G NR n26, 5G NR n41, 5G NR n66, 5G NR n70, 5G NR n71, and 5G NR n77.

LTE Band 2 and 5G NR n2 (1850-1910MHz) are covered by LTE Band 25 and 5G NR n25 respectively. Because they are the subset of LTE band 25 and 5G NR n25 with the same output power and supported bandwidths.

LTE Band 4 (1710-1755MHz, 5/10/15/20MHz bandwidth) is covered by LTE Band 66. Because it is a subset of LTE band 66 and they have same output power.

FCC rule Part 22.905 of LTE Band 5 and 5G NR n5 (824-849MHz) is covered by LTE Band 26 and 5G NR n26 of same rule since they have the same output power and supported bandwidths.

For 5G NRs, conducted spurious emission tests were conducted on wider bandwidth with inner 1RB since this is the worst bandwidth and the highest output power.

BPSK modulation applied only for 5G NR frequencies and has the same tune up power as QPSK modulations.

The DFT-s-OFDM and CP-OFDM waveforms were investigated, and DFT-s-OFDM was found to be the worst case.

The worst-case scenario for all measurements is based on an engineering evaluation made on different modulations. Then, QPSK and BPSK were observed as the worst mode to LTE bands and 5G NR bands respectively and set for all conducted and radiated. Output power measurements were measured on BPSK, QPSK, 16QAM, 64QAM, and 256QAM modulations. For testing purposes emissions on sections 8 and 9 were measured while QPSK/BPSK was set at or above target power for all bands. Conducted tests were performed on the worst case antenna port because it has the highest conducted power. The worst case antenna port is shown in the table below.

| LTE and 5G NR Bands | Worst case Antenna Port for Conducted Power |
|---|---|
| LTE BAND 5 and 5G NR n5 | Ant 1 |
| LTE BAND 7 and 5G NR n7 | |
| LTE BAND 12 and 5G NR n12 | |
| LTE BAND 13 | |
| LTE BAND 14 and 5G NR n14 | |
| LTE Band 17 | |
| LTE BAND 25 and 5G NR n25 | |
| LTE BAND 26 and 5G NR n26 | |
| LTE BAND 30 and 5G NR n30 | |
| LTE BAND 66 and 5G NR n66 | |
| 5G NR n70 | |
| LTE BAND 71 and 5G NR n71 | |
| 5G NR n41 | Ant 2 |
| 5G NR n77 | Ant 7 |
| LTE BAND 48 | |

The EUT was investigated in three orthogonal orientations X/Y/Z on all ANT 1, ANT2, ANT3, ANT4, ANT7, ANT8 and ANT 9 antennas to determine the worst case orientation. The following table exabit the worst case orientation for different frequency bands. The full tests of the EUT have made upon the orientations that shown in the table below.

| Frequency Bands | ANT1 | ANT2 | ANT3 | ANT4 | ANT7 | ANT8 | ANT9 |
|---|---|---|---|---|---|---|---|
| 663 – 849 MHz | X | X | X | N/A | N/A | N/A | N/A |
| 1710 – 1915 MHz | X | X | X | X | N/A | N/A | N/A |
| 2300 – 2700 MHz | X | X | X | X | N/A | N/A | N/A |
| 3300 – 3980 MHz | N/A | N/A | N/A | Y | X | Z | Y |

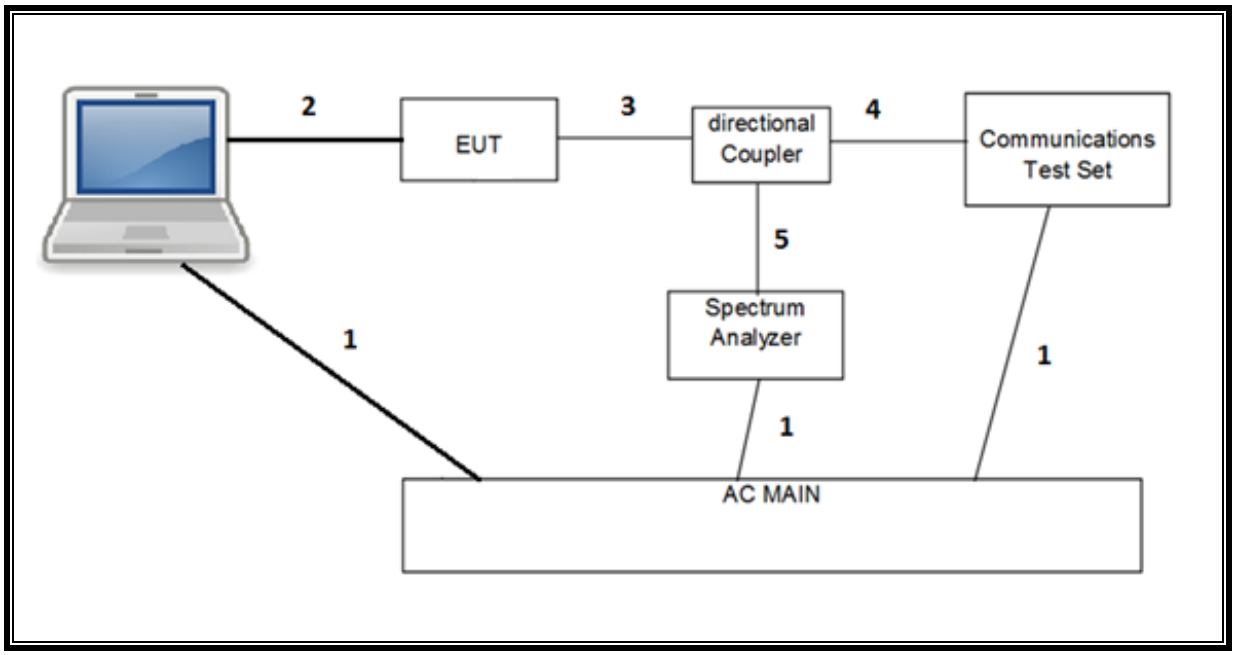
Radiated spurious emissions were investigated from 9kHz to 30MHz, 30MHz-1GHz and above 1GHz. There were no emissions found with less than 20dB of margin from 9kHz to 1GHz.

For simultaneous transmission of multiple channels in the 2.4GHz/5GH WLAN, UWB, and Cellular bands, tests were conducted for various configurations having the highest power, least separation in frequencies and widest operation bandwidths. No noticeable new emission was found.

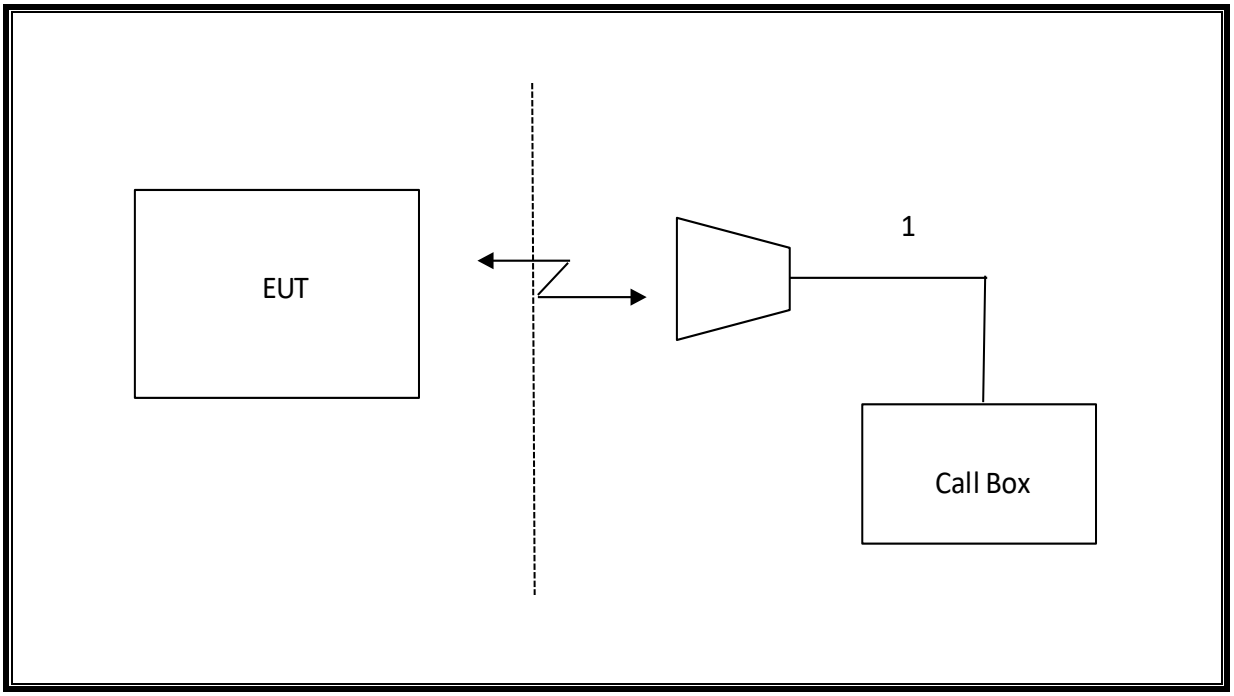
## 6.6. DESCRIPTION OF TEST SETUP

| SUPPORT TEST EQUIPMENT | | | | | |
|---|---|---|---|---|---|
| **Description** | **Manufacturer** | **Model** | **Serial Number** | | **FCC ID/ DoC** |
| Laptop | Apple | MacBook Pro | HRP082673 | | BCGA1708 |
| AC/DC adapter | Apple | A1718 | C4H64450HH3GN8RA6 | | -- |
| **I/O CABLES (RF CONDUCTED TEST)** | | | | | |
| **Cable No.** | **Port** | **# of Identical Ports** | **Connector Type** | **Cable Type** | **Cable Length (m)** | **Remarks** |
| 1 | AC | 3 | US 115V | Un-shielded | 2.0 | N/A |
| 2 | USB | 1 | DC | Un-shielded | 1.0 | N/A |
| 3 | RF In/Out | 1 | EUT | Un-shielded | 0.6 | N/A |
| 4 | RF In/Out | 1 | Communication Test Set | Un-shielded | 1.2 | N/A |
| 5 | RF In/Out | 1 | Barrel | N/A | N/A | N/A |
| **I/O CABLES (RF RADIATED TEST)** | | | | | |
| **Cable No.** | **Port** | **# of Identical Ports** | **Connector Type** | **Cable Type** | **Cable Length (m)** | **Remarks** |
| 1 | RF In/Out | 1 | Antenna | Un-shielded | 5.0 | N/A |

**CONDUCTED SETUP**




**RADIATED SETUP**



# 7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

| TEST EQUIPMENT LIST | | | | |
|---|---|---|---|---|
| **Description** | **Manufacturer** | **Model** | **Asset** | **Cal Due** |
| *Antenna, Horn 1-18GHz | ETS Lindgren | 3117 | 79834 | 06/08/2223 |
| *Antenna, Horn 1-18GHz | ETS Lindgren | 3117 | 80403 | 06/08/2223 |
| Antenna, Broadband Hybrid, 30MHz to 2000MHz | Sunol Sciences | JB3 | 85151 | 03/21/2023 |
| RF Filter Box, 1-18GHz | UL-FR1 (CTECH) | NA | 168535 | 07/16/2023 |
| Spectrum Analyzer, PXA 3Hz to 44GHz | Keysight | N9030A | 85212 | 01/30/2023 |
| Spectrum Analyzer, PSA, 3Hz to 44GHz | Keysight | N9030A | 85213 | 01/19/2023 |
| Spectrum Analyzer, PSA, 3Hz to 44GHz | Keysight | N9030A | 125178 | 01/24/2023 |
| Spectrum Analyzer, PXA, 3Hz to 44GHz | Keysight | N9030A | 85201 | 02/01/2023 |
| Spectrum Analyzer, PXA, 3Hz to 44GHz | Keysight | N9030A | 85214 | 02/02/2023 |
| Spectrum Analyzer, PXA 3Hz to 44GHz | Keysight | N9030A | 80400 | 02/01/2023 |
| Spectrum Analyzer, PXA 3Hz to 44GHz | Keysight | N9030A | 80397 | 02/01/2023 |
| Spectrum Analyzer, PXA, 3Hz to 50GHz w/Ext. Mixer | Keysight | N9030A | T342 | 02/01/2023 |
| Spectrum Analyzer, PSA 3Hz to 44GHz | Keysight | E4440A | 81311 | 02/02/2023 |
| Directional Coupler | KRYTAR | 152610 | T1161 | 09/23/2022 |
| Directional Coupler | KRYTAR | 152610 | T1536 | 09/23/2022 |
| Directional Coupler | KRYTAR | 152610 | T1537 | 09/23/2022 |
| Power Meter, P-series single channel | Keysight | N1912A | 90630 | 01/24/2023 |
| Power Meter, P-series single channel | Keysight | N1912A | 90719 | 01/24/2023 |
| Power Meter, P-series single channel | Agilent | N1911A | 82174 | 01/24/2023 |
| Power Sensor, P – series, 50MHz to 18GHz, Wideband | Keysight | N1921A | 90389 | 01/25/2023 |
| Filter, HPF 1.2GHz | Micro-Tronics | 152043 | 152043 | 7/29/2022 |
| Filter, BRF 1850 – 1910 MHz | Micro-Tronics | 155055 | 155055 | 12/20/2022 |
| Filter, BRF 2495 – 2690 MHz | Micro-Tronics | 155050 | 155055 | 7/30/2022 |
| Filter, BRF 3.4 – 3.8GHz | Micro-Tronics | 208398 | 208398 | 7/30/2022 |
| Spectrum Analyzer, PXA, 3Hz to 44GHz | Keysight | N9030A | 80397 | 02/01/2023 |
| Wideband Communication Test Set, Call Box | R&S GmbH & Co. KG | CMW500 | 85827 | 02/21/2023 |
| Wideband Communication Test Set, Call Box | R&S GmbH & Co. KG | CMW500 | 80105 | 02/21/2023 |
| Wideband Communication Test Set, Call Box | R&S GmbH & Co. KG | CMW500 | 159994 | 02/23/2023 |
| Wideband Communication Test Set, Call Box | R&S GmbH & Co. KG | CMW500 | 85806 | 02/22/2023 |
| Wideband Communication Test Set, Call Box | R&S GmbH & Co. KG | CMW500 | 85943 | 02/20/2023 |
| 5G NR Communication Test Set, Call Box | Keysight | UXM | 207269 | 01/24/2023 |
| 5G NR Communication Test Set, Call Box | Keysight | UXM | MY60101138 | 12/21/2023 |
| Chamber, Environmental | Cincinnati Sub Zero | ZPHS-8-3.5-SCT/WC | 82472 | 11/12/2022 |
| Chamber, Environmental | Cincinnati Sub Zero | ZPHS-8-3.5-SCT/WC | 89097 | 11/12/2022 |
| Amplifier, 218GHz to 26.5GHz | Amplical | AMP18G26.5-60 | 215705 | 02/26/2023 |
| Amplifier, 26.5GHz to 40GHz | Amplical | AMP26G40-65 | 172346 | 02/01/2023 |
| Antenna, Horn 18 to 26.5GHz | ARA | MWH-1826/B | 172362 | 02/09/2023 |
| Antenna, Horn 26.5GHz to 40GHz | ARA | MWH-2640/B | 172365 | 03/08/2023 |
| Antenna, Active Loop 9KHz to 30MHz | EMCO | 6502 | T35 | 10/05/2022 |
| **UL AUTOMATION SOFTWARE** | | | | |
| CLT Software | UL | UL RF | Ver 3.4, May 20, 2022 | |
| Power Measurement Software | UL | UL RF | Ver 3.1.4, April 29, 2022 | |
| Radiated test software | UL | UL RF | Ver 9.5, Jan 21, 2022 | |

**NOTES:**

1. * Testing is completed before equipment expiration date.
2. ** Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

# 8. RF OUTPUT POWER VERIFICATION

## CONDUCTED OUTPUT POWER MEASUREMENT PROCEDURE

All LTE bands conducted average power is obtained from the CMW500 telecommunication test set.

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS136.101 specification.

UE Power Class: 3 (23 +/- 2dBm). Band 41 UE Power Class: 2 (26 +/-2 dBm).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 TS136.101.

**Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3**

| Modulation | Channel bandwidth / Transmission bandwidth ($N_{RB}$) | | | | | | MPR (dB) |
|---|---|---|---|---|---|---|---|
| | 1.4 MHz | 3.0 MHz | 5 MHz | 10 MHz | 15 MHz | 20 MHz | |
| QPSK | > 5 | > 4 | > 8 | > 12 | > 16 | > 18 | ≤ 1 |
| 16 QAM | ≤ 5 | ≤ 4 | ≤ 8 | ≤ 12 | ≤ 16 | ≤ 18 | ≤ 1 |
| 16 QAM | > 5 | > 4 | > 8 | > 12 | > 16 | > 18 | ≤ 2 |
| 64 QAM | ≤ 5 | ≤ 4 | ≤ 8 | ≤ 12 | ≤ 16 | ≤ 18 | ≤ 2 |
| 64 QAM | > 5 | > 4 | > 8 | > 12 | > 16 | > 18 | ≤ 3 |
| 256 QAM | ≥ 1 | | | | | | ≤ 5 |

The allowed A-MPR values specified below in Table 6.2.4.-1 of 3GPP TS136.101 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 6.2.4-1: Additional Maximum Power Reduction (A-MPR)**

| Network Signalling value | Requirements (subclause) | E-UTRA Band | Channel bandwidth (MHz) | Resources Blocks ($N_{RB}$) | A-MPR (dB) |
|---|---|---|---|---|---|
| NS_01 | 6.6.2.1.1 | Table 5.5-1 | 1.4, 3, 5, 10, 15, 20 | Table 5.6-1 | N/A |
| NS_03 | 6.6.2.2.1 | 2, 4,10, 23, 25, 35, 36, 66, 70 | 3 | >5 | ≤ 1 |
| | | | 5 | >6 | ≤ 1 |
| | | | 10 | >6 | ≤ 1 |
| | | | 15 | >8 | ≤ 1 |
| | | | 20 | >10 | ≤ 1 |
| NS_04 | 6.6.2.2.2, 6.6.3.3.19 | 41 | 5, 10, 15, 20 | Table 6.2.4-4, Table 6.2.4-4a | |

## RESULTS

EUT includes different power levels for head use configuration and body use configuration and the below tables contain the highest of all configurations average conducted output powers as follows:

# 8.1. LTE BAND 5 AND 5G NR n5

## LTE BAND 5

**Test Engineer ID:** 19210 **Test Date:** 7/3/2022

## OUTPUT POWER FOR LTE BAND 5 (1.4 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 20407 | 20525 | 20643 | 20407 | 20525 | 20643 |
| | | | | 824.7 | 836.5 | 848.3 | 824.7 | 836.5 | 848.3 |
| 1.4 | QPSK | 1 | 0 | 25.63 | 25.62 | 25.65 | 24.68 | 24.63 | 24.68 |
| | | 1 | 2 | **25.70** | 25.69 | **25.70** | **24.70** | **24.70** | **24.70** |
| | | 1 | 5 | 25.68 | 25.69 | 25.66 | 24.67 | 24.65 | 24.67 |
| | | 3 | 0 | 25.68 | 25.69 | 25.68 | 24.66 | 24.68 | 24.68 |
| | | 3 | 1 | 25.66 | **25.70** | 25.68 | 24.67 | 24.68 | **24.70** |
| | | 3 | 2 | 25.65 | **25.70** | 25.66 | 24.67 | **24.70** | **24.70** |
| | | 6 | 0 | 24.96 | 24.97 | 24.97 | 23.67 | 23.67 | 23.68 |
| | 16QAM | 1 | 0 | 25.28 | 25.11 | 25.20 | **24.07** | 23.80 | 23.89 |
| | | 1 | 2 | 25.29 | 25.19 | 25.21 | **24.07** | 23.84 | 23.90 |
| | | 1 | 5 | **25.32** | 25.15 | 25.14 | 24.05 | 23.82 | 23.87 |
| | | 3 | 0 | 25.15 | 25.13 | 25.10 | 23.90 | 23.86 | 23.84 |
| | | 3 | 1 | 25.14 | 25.10 | 25.13 | 23.86 | 23.86 | 23.83 |
| | | 3 | 2 | 25.14 | 25.11 | 25.12 | 23.88 | 23.89 | 23.84 |
| | | 6 | 0 | 24.05 | 24.03 | 24.03 | 22.76 | 22.74 | 22.72 |
| | 64QAM | 1 | 0 | 24.23 | 24.21 | 24.28 | 22.81 | 22.93 | 22.96 |
| | | 1 | 2 | 24.33 | **24.35** | 24.30 | 22.96 | 23.03 | **23.06** |
| | | 1 | 5 | 24.29 | 24.26 | 24.26 | 22.89 | 22.91 | 22.97 |
| | | 3 | 0 | 24.15 | 24.11 | 24.12 | 22.80 | 22.75 | 22.82 |
| | | 3 | 1 | 24.15 | 24.15 | 24.13 | 22.80 | 22.78 | 22.80 |
| | | 3 | 2 | 24.11 | 24.13 | 24.09 | 22.80 | 22.75 | 22.81 |
| | | 6 | 0 | 23.10 | 22.94 | 23.12 | 21.65 | 21.72 | 21.76 |
| | 256QAM | 1 | 0 | 21.11 | 20.97 | 21.04 | 19.71 | 19.72 | 19.84 |
| | | 1 | 2 | **21.29** | 21.11 | 21.14 | **19.88** | 19.70 | 19.81 |
| | | 1 | 5 | 21.18 | 20.97 | 21.02 | 19.80 | 19.71 | 19.74 |
| | | 3 | 0 | 21.06 | 21.00 | 21.00 | 19.71 | 19.65 | 19.72 |
| | | 3 | 1 | 21.09 | 20.99 | 21.00 | 19.72 | 19.66 | 19.72 |
| | | 3 | 2 | 21.06 | 21.00 | 21.01 | 19.71 | 19.64 | 19.71 |
| | | 6 | 0 | 20.97 | 21.01 | 20.96 | 19.81 | 19.58 | 19.64 |

## OUTPUT POWER FOR LTE BAND 5 (3.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 20415 | 20525 | 20635 | 20415 | 20525 | 20635 |
| | | | | 825.5 | 836.5 | 847.5 | 825.5 | 836.5 | 847.5 |
| 3.0 | QPSK | 1 | 0 | 25.61 | 25.62 | 25.60 | 24.63 | 24.62 | 24.61 |
| | | 1 | 7 | **25.70** | **25.70** | **25.70** | **24.70** | **24.70** | **24.70** |
| | | 1 | 14 | 25.65 | 25.64 | 25.64 | 24.64 | 24.65 | 24.61 |
| | | 8 | 0 | 25.02 | 25.00 | 24.91 | 23.68 | 23.71 | 23.59 |
| | | 8 | 4 | 25.04 | 25.04 | 25.02 | 23.71 | 23.72 | 23.71 |
| | | 8 | 7 | 25.03 | 25.01 | 25.02 | 23.70 | 23.72 | 23.72 |
| | | 15 | 0 | 25.00 | 24.99 | 25.00 | 23.66 | 23.69 | 23.68 |
| | 16QAM | 1 | 0 | 25.23 | 25.29 | 25.34 | 23.92 | 24.08 | 23.99 |
| | | 1 | 7 | 25.35 | 25.36 | **25.43** | 23.99 | **24.15** | 24.11 |
| | | 1 | 14 | 25.24 | 25.38 | 25.31 | 23.92 | 24.04 | 23.99 |
| | | 8 | 0 | 24.06 | 24.05 | 23.95 | 22.78 | 22.80 | 22.66 |
| | | 8 | 4 | 24.07 | 24.07 | 24.05 | 22.80 | 22.82 | 22.77 |
| | | 8 | 7 | 24.06 | 24.04 | 24.05 | 22.79 | 22.82 | 22.77 |
| | | 15 | 0 | 24.05 | 24.03 | 24.05 | 22.73 | 22.73 | 22.71 |
| | 64QAM | 1 | 0 | **24.29** | 24.24 | 24.25 | 22.91 | 22.94 | 22.93 |
| | | 1 | 7 | 24.26 | 24.25 | 24.22 | 22.98 | **23.04** | 23.01 |
| | | 1 | 14 | 24.14 | 24.24 | 24.14 | 23.02 | **23.04** | 22.91 |
| | | 8 | 0 | 23.08 | 23.03 | 22.97 | 21.69 | 21.72 | 21.68 |
| | | 8 | 4 | 23.12 | 23.06 | 23.07 | 21.74 | 21.77 | 21.79 |
| | | 8 | 7 | 23.12 | 23.04 | 23.08 | 21.71 | 21.75 | 21.77 |
| | | 15 | 0 | 23.06 | 23.02 | 23.01 | 21.70 | 21.73 | 21.72 |
| | 256QAM | 1 | 0 | 21.09 | 20.99 | 21.01 | 19.66 | 19.71 | 19.74 |
| | | 1 | 7 | **21.22** | **21.22** | 21.17 | 19.87 | **19.89** | 19.85 |
| | | 1 | 14 | 21.13 | 21.15 | 21.03 | 19.73 | 19.79 | 19.80 |
| | | 8 | 0 | 21.02 | 20.98 | 20.91 | 19.68 | 19.71 | 19.61 |
| | | 8 | 4 | 21.05 | 21.05 | 21.06 | 19.70 | 19.74 | 19.70 |
| | | 8 | 7 | 21.03 | 20.99 | 21.01 | 19.72 | 19.74 | 19.71 |
| | | 15 | 0 | 21.02 | 21.01 | 20.98 | 19.68 | 19.68 | 19.68 |

## OUTPUT POWER FOR LTE BAND 5 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 20425 | 20525 | 20625 | 20425 | 20525 | 20625 |
| | | | | 826.5 | 836.5 | 846.5 | 826.5 | 836.5 | 846.5 |
| 5.0 | QPSK | 1 | 0 | 25.65 | 25.65 | 25.61 | 24.64 | 24.63 | 24.60 |
| | | 1 | 12 | **25.70** | **25.70** | **25.70** | **24.70** | **24.70** | **24.70** |
| | | 1 | 24 | 25.68 | 25.63 | 25.61 | 24.68 | 24.64 | 24.58 |
| | | 12 | 0 | 24.88 | 24.87 | 24.88 | 23.57 | 23.55 | 23.56 |
| | | 12 | 6 | 24.96 | 24.94 | 24.96 | 23.66 | 23.62 | 23.63 |
| | | 12 | 11 | 24.92 | 24.93 | 24.94 | 23.64 | 23.62 | 23.61 |
| | | 25 | 0 | 24.98 | 24.92 | 24.90 | 23.67 | 23.62 | 23.63 |
| | 16QAM | 1 | 0 | 25.34 | 25.26 | 25.24 | 24.05 | 23.94 | 23.91 |
| | | 1 | 12 | 25.33 | 25.34 | **25.40** | **24.07** | 24.06 | 24.03 |
| | | 1 | 24 | 25.33 | 25.24 | 25.26 | 24.00 | 23.97 | 23.95 |
| | | 12 | 0 | 23.97 | 23.89 | 23.84 | 22.62 | 22.58 | 22.53 |
| | | 12 | 6 | 24.06 | 23.98 | 23.92 | 22.69 | 22.63 | 22.62 |
| | | 12 | 11 | 24.04 | 23.96 | 23.89 | 22.67 | 22.61 | 22.60 |
| | | 25 | 0 | 24.00 | 23.92 | 23.93 | 22.69 | 22.61 | 22.65 |
| | 64QAM | 1 | 0 | 24.24 | 24.15 | 24.12 | 22.96 | 22.91 | 22.79 |
| | | 1 | 12 | 24.27 | 24.11 | 24.22 | 22.95 | 22.91 | 22.92 |
| | | 1 | 24 | **24.28** | 24.15 | 24.19 | **22.97** | 22.90 | 22.91 |
| | | 12 | 0 | 22.88 | 23.00 | 22.90 | 21.51 | 21.61 | 21.50 |
| | | 12 | 6 | 22.95 | 23.05 | 23.00 | 21.58 | 21.66 | 21.59 |
| | | 12 | 11 | 22.94 | 23.03 | 22.97 | 21.57 | 21.63 | 21.57 |
| | | 25 | 0 | 23.00 | 22.90 | 22.90 | 21.66 | 21.61 | 21.63 |
| | 256QAM | 1 | 0 | 21.12 | 20.94 | 21.07 | 19.78 | 19.71 | 19.61 |
| | | 1 | 12 | 21.16 | 20.94 | 21.13 | **19.79** | 19.74 | 19.71 |
| | | 1 | 24 | **21.18** | 20.98 | 21.15 | 19.75 | 19.78 | 19.72 |
| | | 12 | 0 | 20.90 | 20.82 | 20.88 | 19.56 | 19.55 | 19.50 |
| | | 12 | 6 | 20.97 | 20.91 | 20.97 | 19.64 | 19.61 | 19.62 |
| | | 12 | 11 | 20.96 | 20.89 | 20.93 | 19.62 | 19.57 | 19.59 |
| | | 25 | 0 | 20.99 | 20.90 | 20.88 | 19.63 | 19.61 | 19.60 |

## OUTPUT POWER FOR LTE BAND 5 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 20450 | 20525 | 20600 | 20450 | 20525 | 20600 |
| | | | | 829.0 | 836.5 | 844.0 | 829.0 | 836.5 | 844.0 |
| 10.0 | QPSK | 1 | 0 | 25.69 | 25.66 | 25.69 | 24.66 | 24.69 | 24.68 |
| | | 1 | 24 | **25.70** | **25.70** | **25.70** | **24.70** | **24.70** | **24.70** |
| | | 1 | 49 | 25.67 | 25.69 | **25.70** | 24.69 | 24.68 | 24.69 |
| | | 25 | 0 | 24.98 | 24.98 | 24.99 | 23.70 | 23.70 | 23.70 |
| | | 25 | 12 | 25.04 | 25.08 | 25.01 | 23.78 | 23.78 | 23.82 |
| | | 25 | 24 | 25.04 | 25.04 | 25.06 | 23.76 | 23.78 | 23.77 |
| | | 50 | 0 | 25.05 | 25.05 | 25.01 | 23.76 | 23.79 | 23.80 |
| | 16QAM | 1 | 0 | 25.33 | 25.42 | 25.42 | 24.16 | **24.16** | **24.16** |
| | | 1 | 24 | 25.23 | 25.39 | 25.32 | 24.05 | 24.10 | 24.08 |
| | | 1 | 49 | 25.32 | 25.44 | **25.45** | 24.15 | 24.15 | 24.14 |
| | | 25 | 0 | 24.00 | 24.02 | 24.06 | 22.71 | 22.77 | 22.73 |
| | | 25 | 12 | 24.09 | 24.12 | 24.07 | 22.81 | 22.86 | 22.81 |
| | | 25 | 24 | 24.08 | 24.08 | 24.13 | 22.80 | 22.82 | 22.78 |
| | | 50 | 0 | 24.07 | 24.06 | 24.01 | 22.78 | 22.80 | 22.80 |
| | 64QAM | 1 | 0 | 24.31 | 24.29 | 24.31 | 22.97 | 23.01 | **23.03** |
| | | 1 | 24 | 24.26 | 24.30 | **24.34** | 23.00 | 22.99 | 22.98 |
| | | 1 | 49 | 24.26 | 24.25 | 24.32 | 23.00 | 23.00 | 22.96 |
| | | 25 | 0 | 23.01 | 22.98 | 23.01 | 21.72 | 21.66 | 21.68 |
| | | 25 | 12 | 23.10 | 23.07 | 23.01 | 21.80 | 21.79 | 21.78 |
| | | 25 | 24 | 23.08 | 23.04 | 23.06 | 21.78 | 21.76 | 21.76 |
| | | 50 | 0 | 23.09 | 23.05 | 23.02 | 21.80 | 21.78 | 21.78 |
| | 256QAM | 1 | 0 | 21.04 | 21.01 | 21.03 | 19.80 | 19.70 | 19.71 |
| | | 1 | 24 | **21.18** | 21.11 | 21.16 | **19.92** | 19.81 | 19.80 |
| | | 1 | 49 | 21.11 | 21.07 | 21.10 | 19.87 | 19.74 | 19.77 |
| | | 25 | 0 | 21.02 | 20.97 | 21.01 | 19.70 | 19.66 | 19.67 |
| | | 25 | 12 | 21.10 | 21.05 | 20.99 | 19.80 | 19.75 | 19.75 |
| | | 25 | 24 | 21.07 | 21.02 | 21.07 | 19.80 | 19.74 | 19.73 |
| | | 50 | 0 | 21.09 | 21.03 | 20.98 | 19.76 | 19.74 | 19.75 |

## 5G NR n5

**Test Engineer ID:** 28498 **Test Date:** 6/8/2022

## OUTPUT POWER FOR 5G NR n5 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 165300 | 167300 | 169300 | 165300 | 167300 | 169300 |
| | | | | 826.5 | 836.5 | 846.5 | 826.5 | 836.5 | 846.5 |
| 5.0 | BPSK | 1 | 0 | 25.42 | 25.51 | 25.49 | 24.47 | 24.38 | 24.48 |
| | | 1 | 1 | **25.70** | 25.65 | 25.70 | 24.63 | 24.56 | **24.68** |
| | | 1 | 23 | 25.63 | 25.62 | 25.60 | 24.61 | 24.67 | 24.66 |
| | | 1 | 24 | 25.42 | 25.41 | 25.29 | 24.44 | 24.45 | 24.40 |
| | | 12 | 6 | 25.59 | 25.64 | 25.58 | 24.60 | 24.63 | 24.62 |
| | | 25 | 0 | 25.37 | 25.35 | 25.27 | 24.33 | 24.34 | 24.38 |
| | QPSK | 1 | 0 | 24.90 | 25.06 | 24.91 | 24.00 | 23.93 | 24.06 |
| | | 1 | 1 | 25.64 | **25.70** | 25.51 | 24.70 | 24.61 | 24.70 |
| | | 1 | 23 | 25.67 | 25.65 | 25.30 | 24.61 | **24.70** | 24.37 |
| | | 1 | 24 | 24.90 | 24.97 | 24.29 | 23.90 | 23.99 | 23.35 |
| | | 12 | 6 | 25.63 | 25.63 | 25.46 | 24.59 | 24.62 | 24.64 |
| | | 25 | 0 | 24.85 | 24.95 | 24.79 | 23.91 | 23.93 | 23.96 |
| | 16QAM | 1 | 0 | 23.87 | 24.22 | 24.00 | 23.20 | 23.16 | 23.32 |
| | | 1 | 1 | 24.88 | **25.28** | 25.02 | **24.25** | 24.13 | 24.22 |
| | | 1 | 23 | 24.76 | 25.23 | 24.72 | 24.15 | 24.23 | 24.00 |
| | | 1 | 24 | 23.90 | 24.19 | 23.73 | 23.04 | 23.13 | 22.94 |
| | | 12 | 6 | 24.98 | 24.84 | 24.69 | 23.81 | 23.88 | 23.98 |
| | | 25 | 0 | 23.95 | 23.96 | 23.71 | 22.91 | 22.84 | 22.89 |
| | 64QAM | 1 | 0 | 23.65 | **23.71** | 23.44 | 22.62 | 22.53 | 22.56 |
| | | 1 | 1 | 23.69 | 23.65 | 23.45 | 22.58 | 22.49 | **22.65** |
| | | 1 | 23 | 23.60 | 23.55 | 23.29 | 22.54 | 22.49 | 22.59 |
| | | 1 | 24 | 23.64 | 23.52 | 23.21 | 22.53 | 22.54 | 22.50 |
| | | 12 | 6 | 23.34 | 23.38 | 23.20 | 22.33 | 22.30 | 22.35 |
| | | 25 | 0 | 23.38 | 23.40 | 23.24 | 22.32 | 22.38 | 22.39 |
| | 256QAM | 1 | 0 | 21.49 | 21.40 | 21.32 | 20.36 | 20.29 | 20.39 |
| | | 1 | 1 | **21.50** | 21.42 | 21.31 | 20.39 | 20.36 | 20.39 |
| | | 1 | 23 | 21.46 | 21.39 | 21.22 | 20.32 | 20.30 | **20.42** |
| | | 1 | 24 | 21.38 | 21.46 | 21.23 | 20.26 | 20.32 | 20.29 |
| | | 12 | 6 | 21.43 | 21.36 | 21.29 | 20.33 | 20.33 | 20.40 |
| | | 25 | 0 | 21.35 | 21.41 | 21.26 | 20.31 | 20.31 | 20.35 |

## OUTPUT POWER FOR 5G NR n5 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 165800 | 167300 | 168800 | 165800 | 167300 | 168800 |
| | | | | 829.0 | 836.5 | 844.0 | 829.0 | 836.5 | 844.0 |
| 10.0 | BPSK | 1 | 0 | 25.48 | 25.45 | 25.50 | 24.50 | 24.50 | 24.41 |
| | | 1 | 1 | 25.68 | 25.64 | **25.70** | 24.65 | 24.67 | 24.63 |
| | | 1 | 50 | 25.53 | 25.53 | 25.44 | 24.59 | **24.70** | 24.51 |
| | | 1 | 51 | 25.38 | 25.43 | 25.33 | 24.39 | 24.46 | 24.35 |
| | | 25 | 12 | 25.63 | 25.60 | 25.58 | 24.63 | **24.70** | 24.55 |
| | | 50 | 0 | 25.48 | 25.43 | 25.40 | 24.46 | 24.56 | 24.40 |
| | QPSK | 1 | 0 | 24.98 | 25.01 | 24.92 | 24.03 | 24.07 | 23.99 |
| | | 1 | 1 | **25.70** | **25.70** | 25.62 | **24.70** | **24.70** | **24.70** |
| | | 1 | 50 | 25.55 | 25.64 | 25.39 | 24.61 | 24.67 | 24.43 |
| | | 1 | 51 | 24.84 | 24.83 | 24.37 | 23.92 | 24.02 | 23.35 |
| | | 25 | 12 | 25.69 | 25.63 | 25.61 | 24.66 | **24.70** | 24.60 |
| | | 50 | 0 | 24.95 | 24.91 | 24.88 | 23.97 | 24.05 | 23.91 |
| | 16QAM | 1 | 0 | 24.18 | 24.21 | 24.15 | 23.24 | 23.27 | 23.16 |
| | | 1 | 1 | **25.27** | 25.25 | 25.26 | **24.31** | 24.20 | 24.16 |
| | | 1 | 50 | 25.18 | 25.13 | 24.86 | 24.13 | 24.21 | 23.83 |
| | | 1 | 51 | 24.03 | 24.09 | 23.80 | 23.14 | 23.16 | 22.75 |
| | | 25 | 12 | 24.95 | 24.85 | 25.21 | 23.97 | 24.02 | 23.92 |
| | | 50 | 0 | 23.96 | 23.85 | 24.16 | 22.93 | 23.07 | 22.85 |
| | 64QAM | 1 | 0 | 23.61 | 23.61 | 23.86 | 22.47 | 22.57 | 22.54 |
| | | 1 | 1 | 23.64 | 23.48 | **23.95** | 22.55 | 22.63 | 22.53 |
| | | 1 | 50 | 23.59 | 23.47 | 23.73 | 22.55 | 22.58 | 22.40 |
| | | 1 | 51 | 23.49 | 23.49 | 23.54 | 22.48 | **22.69** | 22.32 |
| | | 25 | 12 | 23.43 | 23.32 | 23.71 | 22.41 | 22.55 | 22.30 |
| | | 50 | 0 | 23.45 | 23.30 | 23.76 | 22.42 | 22.55 | 22.38 |
| | 256QAM | 1 | 0 | 21.42 | 21.34 | 21.75 | **20.52** | 20.45 | 20.35 |
| | | 1 | 1 | 21.37 | 21.45 | 21.66 | 20.42 | 20.36 | 20.38 |
| | | 1 | 50 | 21.32 | 21.29 | 21.60 | 20.39 | 20.41 | 20.22 |
| | | 1 | 51 | 21.26 | 21.18 | 21.57 | 20.34 | 20.44 | 20.19 |
| | | 25 | 12 | 21.43 | 21.43 | **21.76** | 20.49 | 20.51 | 20.31 |
| | | 50 | 0 | 21.41 | 21.33 | 21.74 | 20.45 | 20.47 | 20.29 |

## OUTPUT POWER FOR 5G NR n5 (15.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 166300 | 167300 | 168300 | 166300 | 167300 | 168300 |
| | | | | 831.5 | 836.5 | 841.5 | 831.5 | 836.5 | 841.5 |
| 15.0 | BPSK | 1 | 0 | 25.40 | 25.47 | 25.49 | 24.49 | 24.45 | 24.53 |
| | | 1 | 1 | 25.68 | **25.70** | 25.65 | **24.70** | 24.64 | 24.69 |
| | | 1 | 77 | 25.58 | 25.61 | 25.59 | 24.50 | 24.57 | 24.54 |
| | | 1 | 78 | 25.32 | 25.38 | 25.37 | 24.39 | 24.42 | 24.25 |
| | | 36 | 18 | 25.41 | 25.56 | 25.66 | 24.56 | 24.49 | 24.51 |
| | | 75 | 0 | 25.27 | 25.37 | 25.45 | 24.39 | 24.33 | 24.37 |
| | QPSK | 1 | 0 | 24.90 | 25.00 | 25.05 | 24.02 | 23.96 | 23.97 |
| | | 1 | 1 | **25.70** | 25.68 | **25.70** | 24.67 | **24.70** | 24.70 |
| | | 1 | 77 | 25.50 | 25.56 | 25.59 | 24.44 | 24.53 | 23.81 |
| | | 1 | 78 | 24.78 | 24.91 | 24.52 | 23.82 | 23.89 | 22.77 |
| | | 36 | 18 | 25.49 | 25.58 | 25.67 | 24.57 | 24.57 | 24.67 |
| | | 75 | 0 | 24.81 | 24.92 | 24.90 | 23.91 | 23.86 | 23.91 |
| | 16QAM | 1 | 0 | 23.79 | 24.22 | 24.21 | 23.18 | 23.14 | 23.10 |
| | | 1 | 1 | 24.82 | **25.23** | 25.20 | **24.21** | 24.16 | 24.16 |
| | | 1 | 77 | 24.70 | 25.12 | 24.77 | 24.15 | 24.01 | 23.38 |
| | | 1 | 78 | 23.70 | 24.12 | 23.79 | 23.11 | 22.74 | 22.23 |
| | | 36 | 18 | 24.77 | 24.93 | 24.98 | 23.94 | 23.74 | 23.83 |
| | | 75 | 0 | 23.79 | 23.87 | 24.00 | 22.94 | 22.87 | 22.91 |
| | 64QAM | 1 | 0 | **23.70** | 23.66 | 23.67 | 22.56 | 22.50 | 22.62 |
| | | 1 | 1 | 23.45 | 23.62 | **23.70** | 22.71 | 22.50 | **22.80** |
| | | 1 | 77 | 23.54 | 23.44 | 23.45 | 22.62 | 22.11 | 21.76 |
| | | 1 | 78 | 23.52 | 23.48 | 23.38 | 22.58 | 22.19 | 21.61 |
| | | 36 | 18 | 23.28 | 23.48 | 23.41 | 22.40 | 22.25 | 22.34 |
| | | 75 | 0 | 23.29 | 23.39 | 23.49 | 22.41 | 22.41 | 22.39 |
| | 256QAM | 1 | 0 | 21.50 | 21.44 | 21.51 | 20.53 | 20.39 | 20.48 |
| | | 1 | 1 | 21.47 | 21.45 | 21.54 | **20.58** | 20.34 | 20.38 |
| | | 1 | 77 | 21.36 | 21.26 | 21.33 | 20.42 | 20.21 | 20.07 |
| | | 1 | 78 | 21.37 | 21.24 | 21.27 | 20.31 | 20.23 | 20.09 |
| | | 36 | 18 | 21.23 | 21.38 | 21.44 | 20.38 | 20.29 | 20.36 |
| | | 75 | 0 | 21.35 | 21.41 | **21.56** | 20.36 | 20.24 | 20.43 |

## OUTPUT POWER FOR 5G NR n5 (20.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 166800 | 167300 | 167800 | 166800 | 167300 | 167800 |
| | | | | 834.0 | 836.5 | 839.0 | 834.0 | 836.5 | 839.0 |
| 20.0 | BPSK | 1 | 0 | 25.46 | 25.49 | 25.56 | 24.43 | 24.44 | 24.49 |
| | | 1 | 1 | 25.65 | **25.70** | 25.67 | **24.68** | 24.65 | 24.67 |
| | | 1 | 104 | 25.53 | 25.58 | 25.60 | 24.49 | 24.45 | 24.47 |
| | | 1 | 105 | 25.32 | 25.40 | 25.36 | 24.31 | 24.32 | 24.32 |
| | | 50 | 25 | 25.56 | 25.62 | 25.63 | 24.55 | 24.59 | 24.61 |
| | | 100 | 0 | 25.35 | 25.41 | 25.40 | 24.37 | 24.34 | 24.42 |
| | QPSK | 1 | 0 | 25.05 | 25.01 | 25.00 | 23.98 | 23.97 | 24.03 |
| | | 1 | 1 | **25.70** | 25.68 | **25.70** | **24.70** | **24.70** | **24.70** |
| | | 1 | 104 | 25.53 | 25.55 | 25.61 | 24.45 | 24.56 | 24.31 |
| | | 1 | 105 | 24.79 | 24.88 | 24.60 | 23.66 | 23.86 | 23.27 |
| | | 50 | 25 | 25.56 | 25.64 | 25.65 | 24.61 | 24.62 | 24.63 |
| | | 100 | 0 | 24.85 | 24.91 | 24.93 | 23.89 | 23.90 | 23.92 |
| | 16QAM | 1 | 0 | 24.20 | 24.35 | 24.13 | 23.15 | 23.16 | 23.15 |
| | | 1 | 1 | 25.23 | **25.30** | 25.17 | 24.12 | 24.12 | **24.30** |
| | | 1 | 104 | 25.03 | 25.04 | 24.88 | 23.96 | 23.95 | 23.36 |
| | | 1 | 105 | 23.98 | 24.08 | 23.97 | 22.91 | 22.86 | 22.38 |
| | | 50 | 25 | 24.84 | 24.90 | 25.05 | 23.86 | 23.90 | 23.80 |
| | | 100 | 0 | 23.91 | 23.92 | 24.00 | 22.88 | 22.89 | 22.94 |
| | 64QAM | 1 | 0 | 23.55 | **23.68** | 23.67 | 22.56 | **22.76** | 22.72 |
| | | 1 | 1 | 23.51 | 23.50 | 23.56 | 22.49 | 22.58 | 22.60 |
| | | 1 | 104 | 23.44 | 23.37 | 23.42 | 22.50 | 22.46 | 21.87 |
| | | 1 | 105 | 23.42 | 23.43 | 23.41 | 22.36 | 22.37 | 21.84 |
| | | 50 | 25 | 23.35 | 23.35 | 23.49 | 22.32 | 22.32 | 22.30 |
| | | 100 | 0 | 23.33 | 23.38 | 23.43 | 22.40 | 22.38 | 22.46 |
| | 256QAM | 1 | 0 | 21.52 | 21.41 | **21.58** | 20.40 | 20.50 | 20.48 |
| | | 1 | 1 | 21.43 | 21.44 | 21.50 | 20.48 | **20.54** | 20.50 |
| | | 1 | 104 | 21.40 | 21.23 | 21.44 | 20.34 | 20.35 | 19.99 |
| | | 1 | 105 | 21.31 | 21.39 | 21.44 | 20.29 | 20.40 | 19.95 |
| | | 50 | 25 | 21.28 | 21.39 | 21.47 | 20.30 | 20.27 | 20.34 |
| | | 100 | 0 | 21.34 | 21.49 | 21.40 | 20.31 | 20.32 | 20.38 |

# 8.2. LTE BAND 7 AND 5G NR n7

## LTE BAND 7

**Test Engineer ID:** 39004 **Test Date:** 4/21/2022

## OUTPUT POWER FOR LTE BAND 7 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 20775 | 21100 | 21425 | 20775 | 21100 | 21425 | 20775 | 21100 | 21425 | 20775 | 21100 | 21425 |
| | | | | 2502.5 | 2535.0 | 2567.5 | 2502.5 | 2535.0 | 2567.5 | 2502.5 | 2535.0 | 2567.5 | 2502.5 | 2535.0 | 2567.5 |
| 5.0 | QPSK | 1 | 0 | 25.54 | 25.58 | 25.46 | 23.09 | 22.97 | 22.94 | 24.80 | 24.84 | 24.63 | 23.05 | 22.99 | 23.06 |
| | | 1 | 12 | 25.66 | **25.70** | 25.62 | **23.20** | 23.07 | 23.05 | **25.00** | 24.95 | 24.73 | **23.20** | 23.11 | 23.19 |
| | | 1 | 24 | 25.60 | 25.65 | 25.53 | 23.14 | 23.00 | 22.94 | 24.98 | 24.85 | 24.64 | 23.18 | 23.05 | 23.13 |
| | | 12 | 0 | 24.81 | 24.89 | 24.75 | 22.05 | 21.91 | 21.87 | 23.79 | 23.81 | 23.67 | 22.05 | 22.03 | 22.13 |
| | | 12 | 6 | 24.87 | 24.97 | 24.82 | 22.15 | 21.96 | 21.94 | 23.89 | 23.89 | 23.75 | 22.12 | 22.15 | 22.19 |
| | | 12 | 11 | 24.91 | 25.02 | 24.87 | 22.14 | 22.02 | 21.97 | 23.93 | 23.93 | 23.79 | 22.15 | 22.19 | 22.16 |
| | | 25 | 0 | 24.88 | 24.95 | 24.84 | 22.12 | 21.97 | 21.93 | 23.86 | 23.87 | 23.72 | 22.11 | 22.12 | 22.20 |
| | 16QAM | 1 | 0 | 25.20 | 25.28 | 25.13 | 22.40 | 22.29 | 22.20 | 24.08 | 24.15 | 24.09 | 22.32 | 22.50 | 22.60 |
| | | 1 | 12 | 25.38 | **25.44** | 25.30 | **22.53** | 22.46 | 22.38 | 24.34 | 24.32 | 24.25 | 22.60 | 22.66 | **22.70** |
| | | 1 | 24 | 25.29 | 25.32 | 25.16 | 22.46 | 22.35 | 22.26 | **24.41** | 24.17 | 24.11 | 22.48 | 22.58 | 22.67 |
| | | 12 | 0 | 24.02 | 23.99 | 23.87 | 21.05 | 21.00 | 20.95 | 22.74 | 22.89 | 22.70 | 21.15 | 21.18 | 21.28 |
| | | 12 | 6 | 24.10 | 24.08 | 23.96 | 21.15 | 21.10 | 21.04 | 22.85 | 22.99 | 22.81 | 21.24 | 21.29 | 21.36 |
| | | 12 | 11 | 24.11 | 24.10 | 23.95 | 21.18 | 21.13 | 21.05 | 22.89 | 23.02 | 22.80 | 21.29 | 21.31 | 21.30 |
| | | 25 | 0 | 23.88 | 23.98 | 23.84 | 21.17 | 21.00 | 20.96 | 22.87 | 22.86 | 22.71 | 21.11 | 21.18 | 21.30 |
| | 64QAM | 1 | 0 | 24.13 | 24.24 | 24.03 | 21.34 | 21.15 | 21.18 | 23.10 | 23.09 | 22.95 | 21.24 | 21.11 | 21.15 |
| | | 1 | 12 | 24.19 | **24.27** | 24.10 | 21.43 | 21.30 | 21.26 | 23.24 | 23.09 | 22.96 | 21.28 | 21.08 | 21.17 |
| | | 1 | 24 | 24.20 | 24.26 | 24.03 | **21.45** | 21.21 | 21.18 | **23.30** | 23.11 | 22.93 | **21.33** | 21.09 | 21.17 |
| | | 12 | 0 | 22.87 | 23.03 | 22.75 | 20.15 | 19.88 | 19.93 | 21.88 | 23.11 | 22.96 | 20.00 | 21.09 | 21.22 |
| | | 12 | 6 | 22.95 | 23.11 | 22.82 | 20.21 | 19.97 | 20.01 | 21.99 | 23.10 | 22.93 | 20.08 | 21.12 | 21.21 |
| | | 12 | 11 | 22.98 | 23.13 | 22.84 | 20.28 | 20.00 | 20.02 | 22.02 | 23.15 | 23.02 | 20.12 | 21.10 | 21.19 |
| | | 25 | 0 | 22.92 | 22.97 | 22.84 | 20.11 | 19.97 | 19.96 | 21.95 | 23.12 | 22.98 | 20.05 | 21.13 | 21.23 |
| | 256QAM | 1 | 0 | 20.93 | 21.02 | 20.87 | 18.09 | 18.09 | 17.95 | 19.91 | 20.05 | 19.86 | 18.06 | 18.12 | 18.06 |
| | | 1 | 12 | 20.99 | **21.15** | 20.95 | **18.24** | 18.19 | 18.08 | 20.11 | 20.12 | 19.94 | 18.11 | 18.18 | 18.12 |
| | | 1 | 24 | 21.03 | 21.05 | 20.85 | 18.23 | 18.10 | 17.98 | **20.14** | **20.14** | 19.83 | 18.18 | **18.20** | 18.03 |
| | | 12 | 0 | 20.81 | 20.89 | 20.76 | 18.06 | 17.93 | 17.92 | 19.86 | 19.89 | 19.72 | 18.00 | 17.96 | 17.95 |
| | | 12 | 6 | 20.89 | 21.00 | 20.84 | 18.13 | 18.00 | 17.97 | 19.98 | 19.96 | 19.82 | 18.09 | 18.03 | 18.00 |
| | | 12 | 11 | 20.93 | 21.03 | 20.88 | 18.15 | 18.03 | 18.02 | 20.01 | 20.00 | 19.83 | 18.13 | 18.09 | 17.93 |
| | | 25 | 0 | 20.84 | 20.96 | 20.81 | 18.08 | 17.98 | 17.95 | 19.96 | 19.94 | 19.76 | 18.06 | 17.99 | 17.98 |

## OUTPUT POWER FOR LTE BAND 7 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 20800 | 21100 | 21400 | 20800 | 21100 | 21400 | 20800 | 21100 | 21400 | 20800 | 21100 | 21400 |
| | | | | 2505.0 | 2535.0 | 2565.0 | 2505.0 | 2535.0 | 2565.0 | 2505.0 | 2535.0 | 2565.0 | 2505.0 | 2535.0 | 2565.0 |
| 10.0 | QPSK | 1 | 0 | 25.56 | 25.58 | 25.55 | 23.14 | 23.09 | 23.10 | 24.57 | 24.69 | 24.49 | 23.05 | 23.07 | 23.09 |
| | | 1 | 24 | 25.60 | 25.67 | 25.56 | **23.20** | 23.12 | 23.10 | 24.89 | 24.70 | 24.55 | 23.14 | 23.11 | 23.13 |
| | | 1 | 49 | 25.65 | **25.70** | 25.60 | 23.17 | 23.15 | 23.14 | **25.00** | 24.67 | 24.51 | **23.20** | 23.16 | 22.67 |
| | | 25 | 0 | 24.92 | 25.00 | 24.91 | 22.19 | 22.08 | 22.09 | 23.70 | 23.73 | 23.58 | 22.16 | 22.16 | 22.20 |
| | | 25 | 12 | 24.95 | 25.02 | 24.92 | 22.12 | 22.14 | 22.14 | 23.82 | 23.75 | 23.61 | 22.15 | 22.22 | 22.24 |
| | | 25 | 24 | 24.96 | 24.96 | 24.84 | 22.13 | 22.15 | 22.13 | 23.93 | 23.67 | 23.50 | 22.16 | 22.12 | 22.16 |
| | | 50 | 0 | 24.95 | 25.01 | 24.91 | 22.11 | 22.12 | 22.11 | 23.79 | 23.72 | 23.57 | 22.14 | 22.20 | 22.25 |
| | 16QAM | 1 | 0 | 25.21 | 25.39 | 25.29 | 22.48 | 22.46 | 22.45 | 23.82 | 24.05 | 23.94 | 22.53 | 22.56 | 22.56 |
| | | 1 | 24 | 25.15 | 25.35 | 25.22 | 22.45 | 22.49 | 22.43 | 24.14 | 24.03 | 23.90 | 22.54 | 22.53 | 22.56 |
| | | 1 | 49 | 25.33 | **25.49** | 25.30 | 22.49 | 22.54 | **22.57** | **24.34** | 24.05 | 23.98 | **22.65** | 22.62 | 22.09 |
| | | 25 | 0 | 23.98 | 24.03 | 23.94 | 21.22 | 21.18 | 21.14 | 22.74 | 22.75 | 22.59 | 21.25 | 21.28 | 21.23 |
| | | 25 | 12 | 23.99 | 24.07 | 23.96 | 21.14 | 21.22 | 21.17 | 22.79 | 22.79 | 22.61 | 21.24 | 21.30 | 21.25 |
| | | 25 | 24 | 24.00 | 23.99 | 23.86 | 21.12 | 21.23 | 21.17 | 22.91 | 22.70 | 22.52 | 21.24 | 21.24 | 21.16 |
| | | 50 | 0 | 23.95 | 24.02 | 23.92 | 21.16 | 21.15 | 21.15 | 22.81 | 22.73 | 22.58 | 21.21 | 21.19 | 21.17 |
| | 64QAM | 1 | 0 | 24.22 | 24.24 | 24.07 | 21.43 | 21.36 | 21.28 | 22.79 | 22.94 | 22.75 | 21.02 | 20.87 | 20.88 |
| | | 1 | 24 | 24.24 | 24.26 | 24.11 | 21.47 | 21.41 | 21.32 | 23.09 | 22.86 | 22.75 | **21.10** | 20.88 | 20.87 |
| | | 1 | 49 | 24.20 | **24.30** | 24.08 | **21.50** | 21.40 | 21.37 | **23.24** | 22.94 | 22.74 | 21.08 | 20.84 | 20.81 |
| | | 25 | 0 | 22.94 | 23.04 | 22.91 | 20.22 | 20.11 | 20.14 | 21.79 | 22.90 | 22.74 | 19.78 | 20.89 | 20.91 |
| | | 25 | 12 | 22.96 | 23.05 | 22.93 | 20.15 | 20.14 | 20.16 | 21.84 | 22.89 | 22.70 | 19.76 | 20.87 | 20.91 |
| | | 25 | 24 | 22.95 | 22.98 | 22.84 | 20.14 | 20.15 | 20.17 | 21.95 | 22.89 | 22.74 | 19.80 | 20.90 | 20.93 |
| | | 50 | 0 | 22.96 | 23.02 | 22.91 | 20.14 | 20.14 | 20.14 | 21.81 | 22.90 | 22.73 | 19.77 | 20.92 | 20.88 |
| | 256QAM | 1 | 0 | 21.00 | 21.04 | 21.04 | 18.34 | 18.23 | 18.22 | 19.81 | 19.94 | 19.69 | 17.81 | 17.80 | 17.73 |
| | | 1 | 24 | 21.08 | **21.14** | 21.07 | **18.39** | 18.32 | 18.28 | 20.07 | 19.95 | 19.79 | **17.97** | 17.85 | 17.78 |
| | | 1 | 49 | 21.09 | 21.03 | 20.98 | 18.32 | 18.26 | 18.24 | **20.15** | 19.84 | 19.67 | 17.88 | 17.81 | 17.68 |
| | | 25 | 0 | 20.89 | 20.97 | 20.88 | 18.20 | 18.08 | 18.13 | 19.77 | 19.75 | 19.60 | 17.75 | 17.70 | 17.71 |
| | | 25 | 12 | 20.94 | 21.03 | 20.91 | 18.14 | 18.13 | 18.17 | 19.84 | 19.79 | 19.65 | 17.73 | 17.75 | 17.75 |
| | | 25 | 24 | 20.95 | 20.96 | 20.85 | 18.16 | 18.17 | 18.21 | 19.98 | 19.69 | 19.55 | 17.78 | 17.69 | 17.68 |
| | | 50 | 0 | 20.93 | 21.00 | 20.88 | 18.12 | 18.11 | 18.16 | 19.84 | 19.77 | 19.61 | 17.72 | 17.71 | 17.70 |

## OUTPUT POWER FOR LTE BAND 7 (15.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 20825 | 21100 | 21375 | 20825 | 21100 | 21375 | 20825 | 21100 | 21375 | 20825 | 21100 | 21375 |
| | | | | 2507.5 | 2535.0 | 2562.5 | 2507.5 | 2535.0 | 2562.5 | 2507.5 | 2535.0 | 2562.5 | 2507.5 | 2535.0 | 2562.5 |
| 15.0 | QPSK | 1 | 0 | 25.57 | 25.54 | 25.48 | 23.14 | 23.06 | 23.07 | 24.57 | 24.63 | 24.50 | 23.01 | 22.96 | 22.87 |
| | | 1 | 37 | 25.59 | 25.61 | 25.55 | **23.20** | 23.15 | 23.13 | **25.00** | 24.67 | 24.52 | 23.17 | 23.02 | 23.01 |
| | | 1 | 74 | **25.70** | 25.60 | 25.52 | 23.15 | 23.15 | 23.16 | 24.99 | 24.64 | 24.48 | **23.20** | 23.00 | 22.60 |
| | | 36 | 0 | 24.95 | 24.96 | 24.91 | 22.24 | 22.18 | 22.18 | 23.83 | 23.77 | 23.60 | 22.20 | 22.12 | 22.16 |
| | | 36 | 16 | 24.89 | 24.99 | 24.93 | 22.27 | 22.20 | 22.24 | 24.03 | 23.78 | 23.64 | 22.20 | 22.12 | 22.02 |
| | | 36 | 35 | 24.89 | 24.93 | 24.84 | 22.21 | 22.15 | 22.23 | 24.00 | 23.68 | 23.54 | 22.20 | 22.07 | 21.97 |
| | | 75 | 0 | 24.89 | 24.92 | 24.92 | 22.19 | 22.20 | 22.20 | 23.88 | 23.75 | 23.62 | 22.19 | 22.10 | 22.06 |
| | 16QAM | 1 | 0 | 25.10 | 25.18 | 25.14 | 22.49 | 22.43 | 22.45 | 23.91 | 23.96 | 23.81 | 22.31 | 22.28 | 22.25 |
| | | 1 | 37 | 25.22 | **25.34** | 25.24 | 22.50 | 22.51 | **22.54** | 24.28 | 23.92 | 23.90 | 22.53 | 22.35 | 22.40 |
| | | 1 | 74 | 25.18 | 25.24 | 25.16 | 22.46 | 22.50 | 22.46 | **24.32** | 23.94 | 23.80 | **22.54** | 22.26 | 21.94 |
| | | 36 | 0 | 23.96 | 23.98 | 23.94 | 21.30 | 21.21 | 21.23 | 22.86 | 22.79 | 22.64 | 21.22 | 21.13 | 21.15 |
| | | 36 | 16 | 23.91 | 24.04 | 23.96 | 21.32 | 21.25 | 21.26 | 23.05 | 22.82 | 22.67 | 21.22 | 21.15 | 21.17 |
| | | 36 | 35 | 23.90 | 23.95 | 23.85 | 21.21 | 21.18 | 21.27 | 23.04 | 22.71 | 22.57 | 21.19 | 21.06 | 21.08 |
| | | 75 | 0 | 23.90 | 23.99 | 23.95 | 21.23 | 21.25 | 21.24 | 22.93 | 22.77 | 22.63 | 21.16 | 21.09 | 21.17 |
| | 64QAM | 1 | 0 | 24.07 | 24.13 | 24.09 | 21.34 | 21.47 | 21.33 | 22.90 | 22.85 | 22.77 | 20.76 | 20.60 | 20.66 |
| | | 1 | 37 | **24.25** | 24.22 | 24.16 | **21.49** | 21.44 | 21.48 | 23.18 | 22.88 | 22.81 | 20.92 | 20.64 | 20.66 |
| | | 1 | 74 | 24.11 | 24.17 | 24.12 | 21.44 | 21.47 | 21.41 | **23.25** | 22.87 | 22.73 | **20.96** | 20.67 | 20.67 |
| | | 36 | 0 | 22.93 | 23.01 | 22.93 | 20.28 | 20.20 | 20.20 | 21.84 | 22.89 | 22.78 | 19.63 | 20.67 | 20.72 |
| | | 36 | 16 | 22.88 | 23.03 | 22.95 | 20.31 | 20.22 | 20.25 | 22.04 | 22.85 | 22.77 | 19.62 | 20.66 | 20.70 |
| | | 36 | 35 | 22.88 | 22.96 | 22.86 | 20.22 | 20.18 | 20.25 | 22.02 | 22.87 | 22.78 | 19.63 | 20.67 | 20.69 |
| | | 75 | 0 | 22.91 | 22.97 | 22.93 | 20.23 | 20.24 | 20.25 | 21.93 | 22.93 | 22.78 | 19.63 | 20.68 | 20.69 |
| | 256QAM | 1 | 0 | 21.02 | 21.12 | 21.02 | 18.29 | 18.35 | 18.31 | 19.91 | 19.86 | 19.67 | 17.73 | 17.75 | 17.70 |
| | | 1 | 37 | 20.98 | 21.13 | 21.05 | 18.36 | 18.36 | 18.38 | **20.26** | 19.92 | 19.68 | 17.76 | **17.83** | 17.70 |
| | | 1 | 74 | 21.02 | **21.14** | 21.04 | 18.27 | **18.40** | 18.33 | 20.22 | 19.83 | 19.66 | 17.82 | 17.81 | 17.72 |
| | | 36 | 0 | 20.93 | 20.98 | 20.92 | 18.28 | 18.22 | 18.24 | 19.88 | 19.79 | 19.61 | 17.61 | 17.54 | 17.56 |
| | | 36 | 16 | 20.88 | 21.04 | 20.94 | 18.30 | 18.26 | 18.28 | 20.04 | 19.86 | 19.64 | 17.60 | 17.57 | 17.56 |
| | | 36 | 35 | 20.91 | 20.96 | 20.88 | 18.26 | 18.21 | 18.32 | 20.06 | 19.76 | 19.58 | 17.61 | 17.56 | 17.53 |
| | | 75 | 0 | 20.92 | 20.96 | 20.94 | 18.23 | 18.25 | 18.28 | 19.93 | 19.82 | 19.66 | 17.57 | 17.56 | 17.57 |

## OUTPUT POWER FOR LTE BAND 7 (20.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 20850 | 21100 | 21350 | 20850 | 21100 | 21350 | 20850 | 21100 | 21350 | 20850 | 21100 | 21350 |
| | | | | 2510.0 | 2535.0 | 2560.0 | 2510.0 | 2535.0 | 2560.0 | 2510.0 | 2535.0 | 2560.0 | 2510.0 | 2535.0 | 2560.0 |
| 20.0 | QPSK | 1 | 0 | 25.56 | 25.63 | 25.54 | 23.07 | 23.06 | 23.06 | 24.53 | 24.77 | 24.57 | 22.88 | 23.01 | 22.98 |
| | | 1 | 49 | 25.61 | 25.64 | 25.62 | 23.13 | 23.12 | 23.12 | **25.00** | 24.75 | 24.56 | 23.10 | 23.10 | 23.10 |
| | | 1 | 99 | 25.65 | **25.70** | 25.62 | 23.11 | 23.15 | **23.20** | 24.93 | 24.68 | 24.61 | 23.13 | **23.20** | 22.72 |
| | | 50 | 0 | 24.98 | 25.05 | 25.00 | 22.20 | 22.18 | 22.19 | 23.93 | 23.84 | 23.69 | 22.17 | 22.23 | 22.24 |
| | | 50 | 24 | 24.93 | 25.11 | 25.05 | 22.16 | 22.23 | 22.23 | 24.10 | 23.85 | 23.72 | 22.25 | 22.23 | 22.30 |
| | | 50 | 49 | 24.93 | 25.02 | 24.95 | 22.13 | 22.15 | 22.17 | 24.01 | 23.74 | 23.62 | 22.17 | 22.16 | 22.09 |
| | | 100 | 0 | 24.94 | 25.02 | 25.01 | 22.15 | 22.22 | 22.22 | 23.94 | 23.82 | 23.68 | 22.17 | 22.24 | 22.17 |
| | 16QAM | 1 | 0 | 25.17 | 25.16 | 25.16 | 22.37 | 22.28 | 22.31 | 23.88 | 24.06 | 23.99 | 22.32 | 22.45 | 22.42 |
| | | 1 | 49 | 25.37 | **25.41** | 25.33 | **22.52** | 22.51 | 22.50 | **24.47** | 24.19 | 24.20 | 22.64 | **22.84** | 22.67 |
| | | 1 | 99 | 25.22 | 25.31 | 25.22 | 22.43 | 22.48 | 22.43 | 24.30 | 23.96 | 24.04 | 22.49 | 22.61 | 22.14 |
| | | 50 | 0 | 24.00 | 24.08 | 24.02 | 21.22 | 21.22 | 21.20 | 22.91 | 22.83 | 22.67 | 21.32 | 21.24 | 21.26 |
| | | 50 | 24 | 23.94 | 24.12 | 24.04 | 21.19 | 21.25 | 21.27 | 23.10 | 22.83 | 22.72 | 21.36 | 21.25 | 21.29 |
| | | 50 | 49 | 23.94 | 24.04 | 23.96 | 21.15 | 21.15 | 21.18 | 23.02 | 22.73 | 22.61 | 21.29 | 21.17 | 21.22 |
| | | 100 | 0 | 23.95 | 24.00 | 24.03 | 21.17 | 21.23 | 21.24 | 22.95 | 22.84 | 22.69 | 21.24 | 21.22 | 21.26 |
| | 64QAM | 1 | 0 | 24.00 | 24.10 | 24.08 | 21.35 | 21.33 | 21.42 | 22.89 | 22.94 | 22.73 | 20.78 | 20.67 | 20.66 |
| | | 1 | 49 | 24.19 | **24.29** | 24.19 | 21.46 | **21.61** | 21.60 | **23.37** | 23.04 | 22.67 | **21.12** | 20.71 | 20.62 |
| | | 1 | 99 | 24.10 | 24.09 | 24.10 | 21.37 | 21.45 | 21.51 | 23.23 | 23.03 | 22.74 | 20.95 | 20.70 | 20.70 |
| | | 50 | 0 | 22.95 | 23.01 | 22.94 | 20.21 | 20.16 | 20.16 | 21.94 | 22.99 | 22.72 | 19.74 | 20.69 | 20.67 |
| | | 50 | 24 | 22.91 | 23.06 | 22.98 | 20.17 | 20.22 | 20.23 | 22.11 | 22.99 | 22.75 | 19.81 | 20.70 | 20.69 |
| | | 50 | 49 | 22.90 | 22.98 | 22.89 | 20.14 | 20.13 | 20.13 | 22.01 | 23.04 | 22.72 | 19.71 | 20.77 | 20.72 |
| | | 100 | 0 | 22.93 | 22.96 | 22.98 | 20.16 | 20.18 | 20.22 | 21.99 | 22.96 | 22.74 | 19.71 | 20.77 | 20.70 |
| | 256QAM | 1 | 0 | 21.04 | 21.04 | 21.03 | 18.39 | 18.32 | 18.29 | 19.86 | 19.99 | 19.76 | 17.80 | 17.82 | 17.70 |
| | | 1 | 49 | 21.05 | 21.09 | 21.04 | **18.40** | 18.35 | 18.28 | 20.14 | 19.91 | 19.70 | 17.85 | 17.82 | 17.70 |
| | | 1 | 99 | 21.07 | **21.14** | 20.99 | 18.39 | 18.38 | 18.30 | **20.16** | 19.95 | 19.78 | **17.90** | 17.83 | 17.72 |
| | | 50 | 0 | 20.90 | 20.97 | 20.93 | 18.18 | 18.15 | 18.17 | 19.93 | 19.85 | 19.64 | 17.70 | 17.62 | 17.63 |
| | | 50 | 24 | 20.88 | 21.05 | 20.98 | 18.16 | 18.24 | 18.23 | 20.11 | 19.88 | 19.70 | 17.75 | 17.68 | 17.69 |
| | | 50 | 49 | 20.92 | 20.98 | 20.91 | 18.19 | 18.18 | 18.19 | 20.05 | 19.81 | 19.63 | 17.70 | 17.64 | 17.62 |
| | | 100 | 0 | 20.88 | 20.94 | 20.96 | 18.16 | 18.22 | 18.22 | 19.98 | 19.86 | 19.68 | 17.65 | 17.66 | 17.68 |

## 5G NR n7

**Test Engineer ID:** 27957 **Test Date:** 4/21/2022

## OUTPUT POWER FOR 5G NR n7 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 500500 | 507000 | 513500 | 500500 | 507000 | 513500 | 500500 | 507000 | 513500 | 500500 | 507000 | 513500 |
| | | | | 2502.5 | 2535.0 | 2567.5 | 2502.5 | 2535.0 | 2567.5 | 2502.5 | 2535.0 | 2567.5 | 2502.5 | 2535.0 | 2567.5 |
| 5.0 | BPSK | 1 | 0 | 25.11 | 25.07 | 25.11 | 22.94 | 22.99 | 22.96 | 24.43 | 24.75 | 24.68 | 22.77 | 22.85 | 22.89 |
| | | 1 | 1 | 25.64 | 25.53 | 25.55 | 23.12 | 23.17 | **23.17** | 24.73 | 24.93 | 24.90 | 23.13 | 23.06 | 23.11 |
| | | 1 | 23 | **25.70** | 25.63 | 25.65 | 23.12 | 23.13 | 23.13 | **25.00** | 24.88 | 24.96 | **23.20** | 23.16 | **23.20** |
| | | 1 | 24 | 25.14 | 25.09 | 25.12 | 22.90 | 22.94 | 22.94 | 24.72 | 24.69 | 24.77 | 22.95 | 22.94 | 22.96 |
| | | 12 | 6 | 25.60 | 25.61 | 25.62 | 23.17 | 23.10 | 23.13 | 24.76 | 24.85 | 24.95 | 22.94 | 23.08 | 23.15 |
| | | 25 | 0 | 24.99 | 25.01 | 25.06 | 22.87 | 22.84 | 22.85 | 24.47 | 24.63 | 24.67 | 22.77 | 22.83 | 22.89 |
| | QPSK | 1 | 0 | 24.61 | 24.59 | 24.59 | 22.44 | 22.41 | 22.40 | 23.94 | 24.20 | 24.23 | 22.24 | 22.37 | 22.44 |
| | | 1 | 1 | 25.68 | 25.59 | 25.63 | 23.12 | 23.09 | 23.11 | 24.70 | **25.00** | 24.91 | 23.05 | 23.08 | 23.13 |
| | | 1 | 23 | 25.69 | **25.70** | **25.70** | **23.20** | **23.20** | **23.20** | 24.98 | 24.95 | **25.00** | 23.16 | **23.20** | 23.14 |
| | | 1 | 24 | 24.60 | 24.63 | 24.70 | 22.46 | 22.48 | 22.53 | 24.18 | 24.30 | 24.32 | 22.43 | 22.51 | 22.42 |
| | | 12 | 6 | 25.59 | 25.58 | 25.64 | 23.14 | 23.11 | 23.16 | 24.70 | 24.91 | 24.91 | 22.99 | 23.11 | 23.16 |
| | | 25 | 0 | 24.55 | 24.59 | 24.58 | 22.41 | 22.37 | 22.43 | 24.06 | 24.17 | 24.24 | 22.32 | 22.44 | 22.37 |
| | 16QAM | 1 | 0 | 23.44 | 23.80 | 23.73 | 21.59 | 21.51 | 21.57 | 22.84 | 23.38 | 23.45 | 21.17 | 21.62 | 21.70 |
| | | 1 | 1 | 24.42 | 24.79 | 24.74 | 22.57 | 22.63 | 22.61 | 23.84 | 24.35 | 24.43 | 22.24 | 22.67 | 22.73 |
| | | 1 | 23 | 24.50 | **24.93** | 24.85 | **22.74** | 22.62 | 22.70 | 24.12 | 24.46 | **24.47** | 22.27 | **22.80** | 22.79 |
| | | 1 | 24 | 23.45 | 23.83 | 23.82 | 21.62 | 21.64 | 21.71 | 23.10 | 23.43 | 23.42 | 21.31 | 21.68 | 21.71 |
| | | 12 | 6 | 24.49 | 24.51 | 24.55 | 22.38 | 22.38 | 22.42 | 24.03 | 24.22 | 24.30 | 22.33 | 22.45 | 22.40 |
| | | 25 | 0 | 23.48 | 23.50 | 23.63 | 21.34 | 21.37 | 21.38 | 22.99 | 23.12 | 23.20 | 21.38 | 21.38 | 21.43 |
| | 64QAM | 1 | 0 | 23.16 | 23.20 | 23.17 | 20.88 | 20.99 | 20.98 | 22.60 | 22.77 | 22.76 | 20.90 | 20.98 | 20.98 |
| | | 1 | 1 | 23.12 | 23.18 | 23.18 | 20.90 | **21.13** | 21.04 | 22.60 | 22.87 | 22.82 | 20.99 | 21.04 | 21.03 |
| | | 1 | 23 | 23.19 | **23.24** | 23.23 | 21.03 | 21.01 | 21.04 | 22.85 | 22.85 | **22.89** | **21.11** | 21.07 | 21.08 |
| | | 1 | 24 | 23.20 | 23.13 | 23.22 | 21.05 | 21.09 | 21.05 | 22.82 | 22.74 | **22.89** | 21.04 | 21.02 | 21.05 |
| | | 12 | 6 | 22.92 | 22.97 | 23.03 | 20.77 | 20.89 | 20.91 | 22.52 | 22.68 | 22.72 | 20.82 | 20.84 | 20.85 |
| | | 25 | 0 | 22.92 | 23.01 | 22.99 | 20.87 | 20.94 | 20.87 | 22.47 | 22.60 | 22.68 | 20.78 | 20.89 | 20.89 |
| | 256QAM | 1 | 0 | 20.92 | 20.86 | 20.99 | 18.80 | 18.82 | 18.84 | 20.50 | 20.61 | 20.63 | 18.65 | 18.75 | 18.71 |
| | | 1 | 1 | 21.00 | 20.82 | 20.97 | 18.78 | 18.91 | 18.86 | 20.50 | 20.66 | 20.57 | 18.74 | 18.79 | 18.82 |
| | | 1 | 23 | 21.04 | 20.95 | **21.20** | 18.91 | **18.94** | 18.90 | **20.78** | 20.73 | 20.76 | 18.87 | 18.84 | **18.95** |
| | | 1 | 24 | 21.04 | 20.97 | 21.01 | 18.77 | 18.91 | 18.87 | 20.72 | 20.68 | 20.58 | 18.88 | 18.85 | 18.82 |
| | | 12 | 6 | 20.93 | 21.06 | 21.10 | 18.77 | 18.92 | 18.90 | 20.52 | 20.72 | 20.66 | 18.89 | 18.80 | 18.79 |
| | | 25 | 0 | 21.00 | 21.02 | 21.12 | 18.78 | 18.87 | 18.90 | 20.55 | 20.71 | 20.64 | 18.91 | 18.83 | 18.85 |

## OUTPUT POWER FOR 5G NR n7 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 501000 | 507000 | 513000 | 501000 | 507000 | 513000 | 501000 | 507000 | 513000 | 501000 | 507000 | 513000 |
| | | | | 2505.0 | 2535.0 | 2565.0 | 2505.0 | 2535.0 | 2565.0 | 2505.0 | 2535.0 | 2565.0 | 2505.0 | 2535.0 | 2565.0 |
| 10.0 | BPSK | 1 | 0 | 25.18 | 25.10 | 25.08 | 22.80 | 22.96 | 22.89 | 24.51 | 24.65 | 24.56 | 22.80 | 22.99 | 22.84 |
| | | 1 | 1 | 25.66 | 25.62 | 25.60 | 23.05 | 23.14 | 23.11 | 24.62 | 24.88 | 24.83 | 22.91 | 23.09 | 23.07 |
| | | 1 | 50 | 25.64 | 25.63 | **25.70** | 23.11 | **23.18** | 23.16 | **24.92** | 24.86 | 24.90 | 23.15 | **23.20** | 23.15 |
| | | 1 | 51 | 25.19 | 25.24 | 25.25 | 22.91 | 22.94 | 22.95 | 24.73 | 24.68 | 24.72 | 22.99 | 23.03 | 22.96 |
| | | 25 | 12 | 25.62 | 25.64 | 25.62 | 23.06 | 23.01 | 23.05 | 24.84 | 24.78 | 24.83 | 23.06 | 23.08 | 23.09 |
| | | 50 | 0 | 25.11 | 25.21 | 25.13 | 22.90 | 22.87 | 22.92 | 24.63 | 24.65 | 24.68 | 22.89 | 22.96 | 22.92 |
| | QPSK | 1 | 0 | 24.70 | 24.66 | 24.67 | 22.43 | 22.50 | 22.41 | 23.96 | 24.28 | 24.15 | 21.95 | 22.43 | 22.42 |
| | | 1 | 1 | **25.70** | 25.64 | 25.69 | 23.13 | **23.20** | 23.09 | 24.64 | **25.00** | 24.88 | 22.99 | 23.03 | 23.12 |
| | | 1 | 50 | 25.69 | 25.68 | 25.69 | **23.20** | 23.17 | **23.20** | **25.00** | 24.96 | **25.00** | **23.20** | 23.17 | **23.20** |
| | | 1 | 51 | 24.64 | 24.68 | 24.62 | 22.50 | 22.47 | 22.45 | 24.28 | 24.25 | 24.29 | 22.51 | 22.54 | 22.56 |
| | | 25 | 12 | 25.68 | **25.70** | 25.52 | 23.13 | 23.11 | 23.08 | 24.90 | 24.89 | 24.79 | 23.10 | 23.15 | 23.17 |
| | | 50 | 0 | 24.65 | 24.71 | 24.54 | 22.42 | 22.41 | 22.33 | 24.15 | 24.18 | 24.09 | 22.41 | 22.42 | 22.43 |
| | 16QAM | 1 | 0 | 23.86 | 23.98 | 23.80 | 21.62 | 21.72 | 21.53 | 23.16 | 23.46 | 23.38 | 21.52 | 21.53 | 21.65 |
| | | 1 | 1 | 24.84 | 24.86 | 24.86 | 22.62 | **22.72** | 22.54 | 24.19 | 24.42 | 24.41 | 22.57 | 22.57 | 22.66 |
| | | 1 | 50 | 24.96 | **25.05** | 24.92 | 22.70 | 22.71 | 22.60 | 24.42 | **24.44** | 24.43 | **22.79** | 22.69 | 22.76 |
| | | 1 | 51 | 23.91 | 24.10 | 23.90 | 21.64 | 21.69 | 21.58 | 23.48 | 23.37 | 23.52 | 21.73 | 21.71 | 21.80 |
| | | 25 | 12 | 24.66 | 24.68 | 24.64 | 22.45 | 22.38 | 22.39 | 24.23 | 24.13 | 24.17 | 22.43 | 22.40 | 22.45 |
| | | 50 | 0 | 23.61 | 23.71 | 23.62 | 21.35 | 21.43 | 21.37 | 23.04 | 23.09 | 23.19 | 21.42 | 21.42 | 21.47 |
| | 64QAM | 1 | 0 | 23.17 | 23.22 | 23.17 | 20.93 | 21.10 | 21.03 | 22.55 | 22.85 | 22.72 | 20.94 | **21.14** | 21.05 |
| | | 1 | 1 | 23.20 | 23.14 | 23.26 | 20.90 | 21.04 | 21.06 | 22.44 | 22.81 | 22.79 | 20.98 | 21.12 | 20.91 |
| | | 1 | 50 | 23.39 | 23.40 | **23.41** | 21.04 | **21.15** | 20.94 | 22.84 | 22.81 | 22.87 | 21.13 | 21.03 | 21.11 |
| | | 1 | 51 | 23.10 | 23.29 | 23.33 | 21.04 | 21.08 | 20.92 | **22.88** | 22.83 | 22.81 | 21.08 | 21.00 | 21.02 |
| | | 25 | 12 | 23.04 | 23.09 | 22.99 | 20.85 | 20.85 | 20.87 | 22.68 | 22.64 | 22.67 | 20.87 | 20.88 | 20.90 |
| | | 50 | 0 | 23.06 | 23.15 | 23.07 | 20.77 | 20.98 | 20.79 | 22.63 | 22.57 | 22.63 | 20.88 | 20.86 | 20.91 |
| | 256QAM | 1 | 0 | 20.99 | 20.97 | 20.83 | 18.72 | 18.80 | 18.64 | 20.47 | 20.58 | 20.51 | 18.72 | 18.84 | 18.86 |
| | | 1 | 1 | 21.01 | 21.00 | 21.00 | 18.67 | 18.79 | 18.80 | 20.47 | 20.62 | 20.64 | 18.71 | 18.89 | 18.92 |
| | | 1 | 50 | 20.91 | 21.13 | 21.12 | 18.76 | **19.04** | 18.94 | 20.68 | 20.58 | 20.60 | 18.98 | 18.90 | 18.81 |
| | | 1 | 51 | 20.95 | **21.19** | 21.04 | 18.81 | 19.02 | 18.92 | 20.63 | 20.59 | 20.59 | **19.03** | 18.82 | 18.90 |
| | | 25 | 12 | 21.02 | 21.08 | 21.08 | 18.76 | 18.94 | 18.77 | 20.66 | **20.71** | 20.63 | 19.02 | 18.89 | 18.95 |
| | | 50 | 0 | 20.92 | 21.05 | 21.02 | 18.80 | 19.00 | 18.79 | 20.66 | 20.66 | 20.63 | 18.96 | 19.01 | 18.92 |

## OUTPUT POWER FOR 5G NR n7 (15.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 501500 | 507000 | 512500 | 501500 | 507000 | 512500 | 501500 | 507000 | 512500 | 501500 | 507000 | 512500 |
| | | | | 2507.5 | 2535.0 | 2562.5 | 2507.5 | 2535.0 | 2562.5 | 2507.5 | 2535.0 | 2562.5 | 2507.5 | 2535.0 | 2562.5 |
| 15.0 | BPSK | 1 | 0 | 25.15 | 25.06 | 25.04 | 23.06 | 22.92 | 22.87 | 24.49 | 24.76 | 24.58 | 22.76 | 22.91 | 22.83 |
| | | 1 | 1 | 25.61 | 25.63 | 25.53 | 23.19 | 23.17 | 23.11 | 24.59 | **24.98** | 24.85 | 22.93 | **23.14** | 23.05 |
| | | 1 | 77 | 25.48 | 25.65 | **25.70** | 23.19 | 23.16 | **23.19** | 24.89 | 24.90 | 24.90 | **23.14** | 23.11 | 23.10 |
| | | 1 | 78 | 25.07 | 25.16 | 25.22 | 22.94 | 23.03 | 22.97 | 24.69 | 24.72 | 24.72 | 22.95 | 22.93 | 22.93 |
| | | 36 | 18 | 25.52 | 25.50 | 25.55 | 23.10 | 23.02 | 23.11 | 24.86 | 24.81 | 24.80 | 22.99 | 22.98 | 23.03 |
| | | 75 | 0 | 25.07 | 25.05 | 25.10 | 22.90 | 22.91 | 22.93 | 24.64 | 24.64 | 24.64 | 22.81 | 22.85 | 22.84 |
| | QPSK | 1 | 0 | 24.64 | 24.67 | 24.65 | 22.44 | 22.44 | 22.47 | 24.06 | 24.30 | 24.18 | 22.28 | 22.32 | 22.42 |
| | | 1 | 1 | **25.70** | 25.61 | 25.63 | 23.15 | **23.20** | 23.11 | 24.68 | 24.99 | 24.94 | 23.03 | 23.03 | 23.15 |
| | | 1 | 77 | 25.55 | **25.70** | 25.68 | **23.20** | 23.18 | **23.20** | **25.00** | **25.00** | **25.00** | **23.20** | **23.20** | **23.20** |
| | | 1 | 78 | 24.53 | 24.68 | 24.73 | 22.48 | 22.52 | 22.51 | 24.29 | 24.22 | 24.27 | 22.49 | 22.50 | 22.43 |
| | | 36 | 18 | 25.63 | 25.58 | 25.49 | 23.13 | 23.12 | 23.14 | 24.91 | 24.87 | 24.94 | 23.06 | 23.07 | 23.09 |
| | | 75 | 0 | 24.61 | 24.61 | 24.66 | 22.41 | 22.42 | 22.43 | 24.20 | 24.20 | 24.18 | 22.34 | 22.35 | 22.41 |
| | 16QAM | 1 | 0 | 23.89 | 23.83 | 23.81 | 21.68 | 21.72 | 21.64 | 23.23 | 23.50 | 23.34 | 21.57 | 21.65 | 21.63 |
| | | 1 | 1 | **24.91** | 24.85 | 24.71 | **22.83** | 22.80 | 22.64 | 24.25 | **24.53** | 24.48 | 22.53 | **22.68** | 22.54 |
| | | 1 | 77 | 24.73 | 24.90 | **24.91** | 22.72 | 22.68 | 22.65 | 24.47 | 24.41 | 24.41 | 22.61 | **22.68** | **22.68** |
| | | 1 | 78 | 23.76 | 23.84 | 23.90 | 21.63 | 21.72 | 21.67 | 23.50 | 23.44 | 23.45 | 21.70 | 21.68 | 21.64 |
| | | 36 | 18 | 24.57 | 24.54 | 24.60 | 22.56 | 22.42 | 22.47 | 24.22 | 24.17 | 24.17 | 22.34 | 22.36 | 22.44 |
| | | 75 | 0 | 23.59 | 23.54 | 23.63 | 21.53 | 21.37 | 21.38 | 23.19 | 23.16 | 23.16 | 21.36 | 21.38 | 21.40 |
| | 64QAM | 1 | 0 | 23.23 | 23.19 | 23.17 | 21.22 | 21.18 | 20.99 | 22.64 | 22.82 | 22.83 | 20.85 | 20.93 | 21.00 |
| | | 1 | 1 | 23.34 | 23.19 | 23.26 | 21.25 | 20.97 | 21.09 | 22.70 | **22.90** | 22.79 | 20.79 | 21.08 | 21.07 |
| | | 1 | 77 | 23.10 | 23.35 | **23.38** | **21.27** | 21.11 | 21.09 | 22.89 | 22.85 | 22.87 | **21.16** | 21.05 | 21.09 |
| | | 1 | 78 | 23.37 | 23.28 | 23.17 | 21.20 | 20.98 | 21.06 | 22.77 | 22.73 | 22.85 | 21.05 | 21.15 | 21.04 |
| | | 36 | 18 | 23.06 | 23.08 | 23.08 | 20.92 | 20.76 | 20.76 | 22.65 | 22.57 | 22.55 | 20.72 | 20.79 | 20.84 |
| | | 75 | 0 | 23.05 | 23.09 | 23.08 | 20.98 | 20.81 | 20.84 | 22.61 | 22.57 | 22.53 | 20.76 | 20.71 | 20.78 |
| | 256QAM | 1 | 0 | 21.02 | 21.05 | 20.96 | 18.93 | 18.91 | 18.69 | 20.45 | 20.59 | 20.57 | 18.58 | 18.87 | 18.73 |
| | | 1 | 1 | 21.03 | 20.94 | 20.91 | 18.89 | 18.82 | 18.78 | 20.39 | 20.63 | 20.46 | 18.65 | **18.94** | 18.90 |
| | | 1 | 77 | 21.00 | 21.06 | **21.15** | **18.98** | 18.81 | 18.80 | 20.62 | 20.57 | 20.54 | 18.90 | 18.77 | 18.81 |
| | | 1 | 78 | 20.93 | 21.07 | 20.94 | **18.98** | 18.75 | 18.88 | 20.68 | 20.62 | 20.62 | 18.80 | 18.79 | 18.85 |
| | | 36 | 18 | 20.94 | 21.02 | 21.00 | 18.92 | 18.76 | 18.75 | **20.73** | 20.56 | 20.54 | 18.75 | 18.77 | 18.82 |
| | | 75 | 0 | 20.96 | 21.07 | 21.07 | 18.91 | 18.77 | 18.77 | 20.53 | 20.49 | 20.52 | 18.78 | 18.76 | 18.81 |

## OUTPUT POWER FOR 5G NR n7 (20.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 502000 | 507000 | 512000 | 502000 | 507000 | 512000 | 502000 | 507000 | 512000 | 502000 | 507000 | 512000 |
| | | | | 2510.0 | 2535.0 | 2560.0 | 2510.0 | 2535.0 | 2560.0 | 2510.0 | 2535.0 | 2560.0 | 2510.0 | 2535.0 | 2560.0 |
| 20.0 | BPSK | 1 | 0 | 25.08 | 25.09 | 24.94 | 23.04 | 22.94 | 22.82 | 24.42 | 24.64 | 24.63 | 22.63 | 22.91 | 22.88 |
| | | 1 | 1 | 25.66 | 25.61 | 25.48 | **23.17** | 23.13 | 23.01 | 24.61 | 24.91 | 24.82 | 22.95 | 23.00 | 23.16 |
| | | 1 | 104 | 25.48 | **25.70** | 25.64 | 23.14 | 23.15 | 23.15 | 24.87 | 24.83 | 24.89 | **23.20** | 23.18 | 23.13 |
| | | 1 | 105 | 25.00 | 25.24 | 25.14 | 22.94 | 22.92 | 22.98 | 24.69 | 24.68 | 24.72 | 23.04 | 22.96 | 23.00 |
| | | 50 | 25 | 25.62 | 25.62 | 25.55 | 23.12 | 23.10 | 23.10 | **24.92** | 24.85 | 24.88 | 22.88 | 23.13 | 23.10 |
| | | 100 | 0 | 25.14 | 25.08 | 25.06 | 22.92 | 22.86 | 22.92 | 24.71 | 24.65 | 24.67 | 22.75 | 22.91 | 22.92 |
| | QPSK | 1 | 0 | 24.67 | 24.64 | 24.57 | 22.44 | 22.44 | 22.38 | 24.02 | 24.29 | 24.19 | 20.84 | 22.36 | 22.54 |
| | | 1 | 1 | **25.70** | **25.70** | 25.56 | 23.13 | 23.17 | 23.10 | 24.70 | **25.00** | 24.93 | 21.96 | 23.04 | **23.20** |
| | | 1 | 104 | 25.63 | 25.67 | **25.70** | **23.20** | **23.20** | **23.20** | 24.95 | 24.93 | **25.00** | 22.97 | **23.20** | 23.19 |
| | | 1 | 105 | 24.58 | 24.76 | 24.67 | 22.54 | 22.52 | 22.59 | 24.28 | 24.24 | 24.26 | 21.92 | 22.54 | 22.54 |
| | | 50 | 25 | 25.57 | 25.62 | 25.60 | 23.13 | 23.13 | 23.17 | **25.00** | 24.84 | 24.92 | 22.97 | 23.06 | 23.14 |
| | | 100 | 0 | 24.54 | 24.57 | 24.59 | 22.42 | 22.40 | 22.44 | 24.22 | 24.17 | 24.20 | 22.25 | 22.37 | 22.42 |
| | 16QAM | 1 | 0 | 23.91 | 23.86 | 23.84 | 21.54 | 21.74 | 21.67 | 23.24 | 23.50 | 23.42 | 20.67 | 21.45 | 21.73 |
| | | 1 | 1 | **24.95** | 24.85 | 24.67 | 22.65 | **22.74** | 22.53 | 24.22 | **24.45** | 24.37 | 21.81 | 22.62 | **22.73** |
| | | 1 | 104 | 24.84 | 24.90 | 24.93 | 22.65 | 22.73 | 22.66 | 24.42 | 24.41 | 24.44 | 22.17 | 22.60 | 22.71 |
| | | 1 | 105 | 23.74 | 23.79 | 24.10 | 21.63 | 21.69 | 21.60 | 23.35 | 23.34 | 23.49 | 21.22 | 21.70 | 21.71 |
| | | 50 | 25 | 24.62 | 24.66 | 24.59 | 22.35 | 22.38 | 22.40 | 24.23 | 24.12 | 24.15 | 22.23 | 22.32 | 22.52 |
| | | 100 | 0 | 23.63 | 23.61 | 23.57 | 21.38 | 21.40 | 21.43 | 23.21 | 23.12 | 23.18 | 21.25 | 21.34 | 21.55 |
| | 64QAM | 1 | 0 | 23.21 | **23.36** | 23.07 | 21.08 | 21.09 | 20.96 | 22.63 | 22.87 | 22.81 | 20.69 | 21.02 | 21.10 |
| | | 1 | 1 | 23.29 | 23.25 | 23.19 | 21.06 | 21.07 | **21.12** | 22.69 | **22.94** | 22.69 | 20.67 | 20.97 | 21.19 |
| | | 1 | 104 | 23.08 | 23.22 | 23.28 | 21.04 | 20.99 | 21.04 | 22.92 | 22.88 | 22.90 | 21.08 | 21.11 | **21.22** |
| | | 1 | 105 | 22.91 | 23.32 | 23.21 | 21.03 | 21.04 | 20.98 | 22.93 | 22.76 | 22.84 | 21.13 | 21.05 | 21.11 |
| | | 50 | 25 | 23.06 | 23.15 | 23.04 | 20.85 | 20.78 | 20.90 | 22.72 | 22.57 | 22.67 | 20.75 | 20.80 | 21.03 |
| | | 100 | 0 | 23.04 | 23.13 | 23.06 | 20.84 | 20.79 | 20.87 | 22.62 | 22.54 | 22.59 | 20.76 | 20.83 | 21.00 |
| | 256QAM | 1 | 0 | 21.06 | 20.93 | 21.03 | 18.91 | 18.77 | 18.84 | 20.44 | 20.67 | 20.52 | 18.53 | 18.79 | 18.91 |
| | | 1 | 1 | 20.93 | 21.05 | 20.91 | 18.83 | 18.82 | 18.72 | 20.51 | 20.70 | 20.51 | 18.60 | 18.89 | 18.98 |
| | | 1 | 104 | 21.01 | 21.09 | 20.99 | 18.71 | 18.77 | 18.78 | 20.62 | 20.69 | 20.63 | 18.92 | 18.92 | 19.01 |
| | | 1 | 105 | 20.99 | **21.13** | 21.10 | 18.80 | 18.79 | 18.81 | 20.71 | 20.57 | 20.54 | 18.94 | 19.02 | **19.10** |
| | | 50 | 25 | 20.95 | 21.02 | 20.92 | 18.88 | **18.92** | 18.78 | **20.75** | 20.57 | 20.56 | 18.66 | 18.88 | 19.02 |
| | | 100 | 0 | 20.98 | 21.08 | 20.95 | 18.89 | **18.92** | 18.79 | 20.65 | 20.66 | 20.60 | 18.72 | 18.88 | 18.98 |

## OUTPUT POWER FOR 5G NR n7 (25.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 502500 | 507000 | 511500 | 502500 | 507000 | 511500 | 502500 | 507000 | 511500 | 502500 | 507000 | 511500 |
| | | | | 2512.5 | 2535.0 | 2557.5 | 2512.5 | 2535.0 | 2557.5 | 2512.5 | 2535.0 | 2557.5 | 2512.5 | 2535.0 | 2557.5 |
| 25.0 | BPSK | 1 | 0 | 25.05 | 24.96 | 24.91 | 22.97 | 22.90 | 22.87 | 24.51 | 24.78 | 24.62 | 22.70 | 22.81 | 22.86 |
| | | 1 | 1 | **25.63** | 25.52 | 25.48 | 23.09 | 23.17 | 23.01 | 24.63 | 24.91 | 24.83 | 22.81 | 23.02 | 23.04 |
| | | 1 | 131 | 25.43 | 25.51 | **25.63** | 23.12 | 23.15 | **23.20** | 24.93 | **24.97** | 24.92 | **23.20** | 23.15 | **23.20** |
| | | 1 | 132 | 24.93 | 25.12 | 25.15 | 22.90 | 22.94 | 23.00 | 24.82 | 24.75 | 24.81 | 23.00 | 22.98 | 22.98 |
| | | 64 | 32 | 25.40 | 25.41 | 25.53 | 23.07 | 23.04 | 23.12 | 24.96 | 24.91 | 24.87 | 23.03 | 23.09 | 23.09 |
| | | 128 | 0 | 24.92 | 24.95 | 25.03 | 22.87 | 22.85 | 22.92 | 24.77 | 24.67 | 24.70 | 22.80 | 22.88 | 22.91 |
| | QPSK | 1 | 0 | 24.62 | 24.55 | 24.51 | 22.53 | 22.45 | 22.44 | 24.04 | 24.33 | 24.22 | 21.71 | 22.32 | 22.37 |
| | | 1 | 1 | **25.70** | 25.59 | 25.49 | **23.20** | **23.20** | 23.09 | 24.77 | **25.00** | 24.88 | 22.78 | 23.02 | 23.14 |
| | | 1 | 131 | 25.52 | **25.70** | **25.70** | 23.19 | 23.18 | 23.19 | **25.00** | 24.94 | **25.00** | 23.19 | **23.20** | 23.13 |
| | | 1 | 132 | 24.42 | 24.61 | 24.71 | 22.49 | 22.48 | 22.53 | 24.23 | 24.19 | 24.34 | 22.51 | 22.46 | 22.48 |
| | | 64 | 32 | 25.38 | 25.49 | 25.61 | 23.12 | 23.05 | 23.13 | 24.99 | 24.85 | 24.90 | 22.99 | 23.07 | 23.07 |
| | | 128 | 0 | 24.45 | 24.48 | 24.51 | 22.40 | 22.35 | 22.41 | 24.27 | 24.15 | 24.14 | 22.31 | 22.20 | 22.28 |
| | 16QAM | 1 | 0 | 23.73 | 23.72 | 23.65 | 21.71 | 21.63 | 21.70 | 23.27 | 23.35 | 23.40 | 21.32 | 21.37 | 21.61 |
| | | 1 | 1 | 24.84 | 24.69 | 24.77 | 22.71 | 22.62 | 22.59 | 24.29 | 24.50 | 24.40 | 22.27 | 22.52 | 22.53 |
| | | 1 | 131 | 24.85 | **24.90** | 24.76 | 22.68 | **22.73** | 22.71 | **24.55** | 24.41 | 24.50 | 22.62 | 22.68 | **22.72** |
| | | 1 | 132 | 23.71 | 23.80 | 23.95 | 21.83 | 21.71 | 21.75 | 23.52 | 23.42 | 23.56 | 21.78 | 21.63 | 21.52 |
| | | 64 | 32 | 24.51 | 24.46 | 24.54 | 22.36 | 22.43 | 22.37 | 24.31 | 24.11 | 24.19 | 22.30 | 22.24 | 22.46 |
| | | 128 | 0 | 23.36 | 23.45 | 23.52 | 21.39 | 21.40 | 21.37 | 23.31 | 23.10 | 23.16 | 21.28 | 21.21 | 21.37 |
| | 64QAM | 1 | 0 | 23.31 | **23.41** | 22.84 | 21.02 | 21.14 | 20.94 | 22.58 | **23.06** | 22.82 | 20.71 | 20.89 | 21.09 |
| | | 1 | 1 | 23.14 | 23.21 | 23.09 | **21.26** | 21.09 | 20.96 | 22.52 | 23.00 | 22.73 | 20.85 | 20.94 | 20.96 |
| | | 1 | 131 | 22.99 | 23.26 | 23.27 | 21.07 | 20.92 | 21.14 | 22.97 | 22.84 | 23.02 | **21.16** | 21.00 | 21.14 |
| | | 1 | 132 | 23.12 | 23.05 | 23.21 | 21.04 | 21.10 | 20.98 | 22.93 | 22.82 | 22.84 | 21.10 | 21.05 | 21.08 |
| | | 64 | 32 | 22.99 | 23.06 | 22.99 | 20.81 | 20.86 | 20.87 | 22.75 | 22.57 | 22.65 | 20.75 | 20.75 | 20.86 |
| | | 128 | 0 | 22.97 | 23.01 | 22.96 | 20.83 | 20.83 | 20.80 | 22.73 | 22.61 | 22.57 | 20.80 | 20.84 | 20.82 |
| | 256QAM | 1 | 0 | 20.99 | 20.87 | 20.90 | 18.76 | **18.92** | 18.73 | 20.46 | 20.66 | 20.59 | 18.42 | 18.75 | 18.71 |
| | | 1 | 1 | 20.90 | 20.79 | 20.84 | 18.88 | 18.70 | 18.75 | 20.47 | 20.56 | 20.58 | 18.65 | 18.69 | 18.72 |
| | | 1 | 131 | 20.80 | **21.04** | 20.92 | 18.84 | 18.82 | 18.81 | 20.67 | 20.66 | 20.68 | 18.90 | **18.96** | 18.70 |
| | | 1 | 132 | 20.72 | 20.94 | 20.73 | 18.80 | 18.77 | 18.82 | 20.67 | 20.58 | 20.60 | 18.83 | 18.82 | 18.73 |
| | | 64 | 32 | 20.80 | 20.89 | 20.83 | 18.85 | 18.76 | 18.73 | 20.69 | 20.56 | 20.56 | 18.83 | 18.75 | 18.72 |
| | | 128 | 0 | 20.85 | 20.95 | 20.90 | 18.85 | 18.78 | 18.72 | 20.68 | **20.70** | 20.57 | 18.78 | 18.73 | 18.77 |

## OUTPUT POWER FOR 5G NR n7 (30.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 503000 | 507000 | 511000 | 503000 | 507000 | 511000 | 503000 | 507000 | 511000 | 503000 | 507000 | 511000 |
| | | | | 2515.0 | 2535.0 | 2555.0 | 2515.0 | 2535.0 | 2555.0 | 2515.0 | 2535.0 | 2555.0 | 2515.0 | 2535.0 | 2555.0 |
| 30.0 | BPSK | 1 | 0 | 25.11 | 25.03 | 25.06 | 23.01 | 22.86 | 22.93 | 24.41 | 24.64 | 24.60 | 22.45 | 22.78 | 22.93 |
| | | 1 | 1 | **25.70** | 25.52 | 25.55 | **23.19** | 23.13 | 23.05 | 24.67 | 24.94 | 24.92 | 22.71 | 23.10 | **23.20** |
| | | 1 | 158 | 25.53 | **25.70** | **25.70** | 23.14 | 23.07 | 23.18 | 24.83 | 24.97 | **25.00** | 23.09 | 23.08 | 23.14 |
| | | 1 | 159 | 24.96 | 25.18 | 25.26 | 22.94 | 22.93 | 23.05 | 24.67 | 24.78 | 24.72 | 22.87 | 22.97 | 22.86 |
| | | 80 | 40 | 25.51 | 25.57 | 25.58 | 23.12 | 23.01 | 23.05 | 24.82 | 24.85 | 24.81 | 22.94 | 23.09 | 23.10 |
| | | 160 | 0 | 25.03 | 25.07 | 25.11 | 22.97 | 22.87 | 22.92 | 24.70 | 24.67 | 24.80 | 22.78 | 22.91 | 22.92 |
| | QPSK | 1 | 0 | 24.56 | 24.61 | 24.55 | 22.46 | 22.41 | 22.47 | 23.95 | 24.26 | 24.20 | 22.04 | 22.32 | 22.45 |
| | | 1 | 1 | 25.59 | 25.62 | 25.65 | **23.20** | **23.20** | 23.16 | 24.63 | **25.00** | 24.91 | 22.79 | 23.02 | 23.15 |
| | | 1 | 158 | 25.54 | 25.62 | **25.69** | 23.10 | 23.10 | **23.20** | 24.91 | 24.96 | 24.99 | **23.20** | **23.20** | 23.09 |
| | | 1 | 159 | 24.47 | 24.67 | 24.61 | 22.49 | 22.39 | 22.51 | 24.26 | 24.17 | 24.32 | 22.44 | 22.47 | 22.39 |
| | | 80 | 40 | 25.57 | 25.60 | 25.54 | 23.17 | 23.09 | 23.07 | **25.00** | 24.85 | 24.84 | 22.93 | 23.11 | 22.99 |
| | | 160 | 0 | 24.51 | 24.60 | 24.54 | 22.48 | 22.34 | 22.37 | 24.18 | 24.20 | 24.18 | 22.28 | 22.42 | 22.30 |
| | 16QAM | 1 | 0 | 23.72 | 23.78 | 23.93 | 21.83 | 21.60 | 21.60 | 23.13 | 23.41 | 23.39 | 21.30 | 21.47 | 21.53 |
| | | 1 | 1 | 24.80 | 24.83 | 24.89 | 22.83 | 22.71 | 22.51 | 24.27 | 24.49 | **24.54** | 22.25 | 22.52 | 22.45 |
| | | 1 | 158 | 24.66 | 24.81 | **24.90** | 22.68 | 22.50 | **22.84** | 24.41 | 24.48 | 24.45 | **22.73** | 22.65 | 22.58 |
| | | 1 | 159 | 23.73 | 23.92 | 23.99 | 21.76 | 21.46 | 21.78 | 23.42 | 23.56 | 23.52 | 21.51 | 21.63 | 21.64 |
| | | 80 | 40 | 24.40 | 24.53 | 24.55 | 22.40 | 22.24 | 22.41 | 24.24 | 24.13 | 24.28 | 22.26 | 22.38 | 22.34 |
| | | 160 | 0 | 23.55 | 23.59 | 23.58 | 21.43 | 21.27 | 21.32 | 23.25 | 23.11 | 23.16 | 21.23 | 21.40 | 21.27 |
| | 64QAM | 1 | 0 | 23.31 | 23.32 | 23.23 | 21.20 | 21.16 | 21.05 | 22.61 | 22.95 | 22.92 | 20.63 | 21.04 | 21.08 |
| | | 1 | 1 | 23.32 | 23.30 | 23.34 | 21.13 | 20.97 | 21.03 | 22.62 | 22.88 | 22.86 | 20.62 | 21.11 | 20.95 |
| | | 1 | 158 | 23.11 | 23.36 | **23.45** | **21.23** | 21.17 | 21.16 | 22.79 | **22.98** | 22.90 | 21.05 | 21.05 | 21.16 |
| | | 1 | 159 | 23.26 | 23.19 | 23.37 | 21.05 | 21.22 | 21.02 | 22.87 | 22.93 | 22.84 | 21.02 | **21.17** | 21.11 |
| | | 80 | 40 | 22.94 | 22.99 | 22.97 | 20.89 | 20.71 | 20.81 | 22.74 | 22.65 | 22.57 | 20.68 | 20.83 | 20.73 |
| | | 160 | 0 | 23.03 | 23.03 | 23.00 | 20.94 | 20.78 | 20.84 | 22.70 | 22.62 | 22.75 | 20.73 | 20.80 | 20.79 |
| | 256QAM | 1 | 0 | 21.11 | 21.08 | 21.00 | 18.94 | 18.73 | 18.76 | 20.45 | 20.73 | 20.57 | 18.59 | 18.78 | **18.89** |
| | | 1 | 1 | 21.14 | 21.02 | 20.99 | 19.03 | 18.78 | 18.96 | 20.49 | 20.74 | 20.60 | 18.55 | 18.89 | 18.83 |
| | | 1 | 158 | 21.13 | 21.05 | 20.97 | **19.08** | 18.84 | 18.83 | 20.60 | 20.48 | **20.78** | 18.82 | 18.84 | **18.89** |
| | | 1 | 159 | 21.12 | **21.16** | 21.09 | 18.99 | 18.79 | 18.84 | 20.73 | 20.68 | 20.72 | 18.87 | 18.74 | 18.80 |
| | | 80 | 40 | 20.91 | 21.01 | 20.99 | 18.94 | 18.68 | 18.79 | 20.66 | 20.50 | 20.59 | 18.70 | 18.81 | 18.81 |
| | | 160 | 0 | 20.93 | 20.97 | 21.01 | 18.82 | 18.68 | 18.86 | 20.66 | 20.59 | 20.65 | 18.71 | 18.85 | 18.86 |

## OUTPUT POWER FOR 5G NR n7 (40.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 504000 | 507000 | 510000 | 504000 | 507000 | 510000 | 504000 | 507000 | 510000 | 504000 | 507000 | 510000 |
| | | | | 2520.0 | 2535.0 | 2550.0 | 2520.0 | 2535.0 | 2550.0 | 2520.0 | 2535.0 | 2550.0 | 2520.0 | 2535.0 | 2550.0 |
| 40.0 | BPSK | 1 | 0 | 25.15 | 25.25 | 25.01 | 22.87 | 22.90 | 23.00 | 24.52 | 24.64 | 24.75 | 22.39 | 22.86 | 22.91 |
| | | 1 | 1 | **25.70** | 25.63 | 25.49 | 23.13 | 23.19 | 23.13 | 24.70 | 24.86 | 24.85 | 22.65 | 23.07 | 23.14 |
| | | 1 | 214 | 25.56 | **25.70** | **25.70** | 23.16 | 23.09 | **23.20** | 24.97 | 24.85 | **25.00** | **23.20** | **23.20** | 23.17 |
| | | 1 | 215 | 25.06 | 25.25 | 25.22 | 22.89 | 22.98 | 23.02 | 24.82 | 24.67 | 24.67 | 22.94 | 23.13 | 23.07 |
| | | 108 | 54 | 25.51 | 25.56 | 25.53 | 23.08 | 23.11 | 23.04 | 24.93 | 24.71 | 24.88 | 22.87 | 23.16 | 23.14 |
| | | 216 | 0 | 24.57 | 25.10 | 22.19 | 22.96 | 22.91 | 22.87 | 24.76 | 24.55 | 24.70 | 22.72 | 22.98 | 22.96 |
| | QPSK | 1 | 0 | 22.40 | 24.60 | 21.15 | 22.44 | 22.46 | 22.45 | 24.09 | 24.31 | 24.22 | 21.28 | 22.40 | 22.01 |
| | | 1 | 1 | 23.59 | **25.70** | 22.32 | **23.20** | **23.20** | 23.15 | 24.67 | **25.00** | 24.82 | 22.10 | 23.02 | 22.96 |
| | | 1 | 214 | 23.37 | 25.65 | 21.08 | 23.07 | 23.15 | 23.11 | **25.00** | 24.80 | 24.95 | 22.67 | 22.27 | 22.44 |
| | | 1 | 215 | 22.47 | 24.77 | 20.05 | 22.18 | 22.40 | 22.06 | 24.28 | 24.13 | 24.21 | 21.65 | 21.20 | 21.48 |
| | | 108 | 54 | 25.53 | 25.65 | 25.51 | 23.16 | 23.16 | 23.07 | 24.99 | 24.76 | 24.81 | 22.81 | 23.17 | **23.20** |
| | | 216 | 0 | 24.55 | 24.68 | 24.52 | 22.47 | 22.45 | 22.44 | 24.31 | 24.12 | 24.24 | 22.12 | 22.52 | 22.36 |
| | 16QAM | 1 | 0 | 23.76 | 23.84 | 23.76 | 21.54 | 21.72 | 21.64 | 23.21 | 23.49 | 23.40 | 20.73 | 21.58 | 21.63 |
| | | 1 | 1 | 24.97 | 24.93 | 24.60 | 22.65 | 22.80 | 22.63 | 24.32 | 24.38 | 24.35 | 21.69 | 22.65 | **22.70** |
| | | 1 | 214 | **25.01** | 24.92 | 24.52 | 22.69 | 22.64 | **22.82** | **24.55** | 24.29 | 24.53 | 22.53 | 22.64 | 22.28 |
| | | 1 | 215 | 23.77 | 23.85 | 23.55 | 21.73 | 21.69 | 21.68 | 23.44 | 23.26 | 23.43 | 21.53 | 21.66 | 21.26 |
| | | 108 | 54 | 24.50 | 24.66 | 24.53 | 22.45 | 22.46 | 22.39 | 24.29 | 24.05 | 24.18 | 22.01 | 22.49 | 22.52 |
| | | 216 | 0 | 23.55 | 23.63 | 23.56 | 21.46 | 21.44 | 21.39 | 23.25 | 23.08 | 23.20 | 21.12 | 21.54 | 21.52 |
| | 64QAM | 1 | 0 | 23.28 | 23.32 | 23.37 | 21.15 | 21.13 | 21.04 | 22.80 | 22.76 | 22.71 | 20.44 | 21.15 | 20.98 |
| | | 1 | 1 | 23.14 | 23.25 | 23.00 | 21.05 | 21.21 | 21.06 | 22.38 | 22.87 | 22.62 | 20.35 | 21.04 | **21.19** |
| | | 1 | 214 | 23.21 | 23.35 | **23.46** | 20.99 | **21.27** | 21.05 | 22.82 | 23.03 | 22.87 | 21.07 | 21.17 | 20.97 |
| | | 1 | 215 | 23.26 | 23.24 | 23.24 | 20.95 | 21.16 | 21.10 | 22.80 | 22.71 | **23.04** | 20.91 | 21.17 | 21.18 |
| | | 108 | 54 | 22.95 | 22.94 | 22.87 | 20.86 | 20.87 | 20.86 | 22.70 | 22.52 | 22.65 | 20.58 | 20.93 | 20.95 |
| | | 216 | 0 | 23.01 | 23.03 | 22.95 | 20.90 | 20.89 | 21.02 | 22.75 | 22.55 | 22.70 | 20.60 | 20.93 | 20.97 |
| | 256QAM | 1 | 0 | 21.17 | **21.26** | 21.24 | 18.91 | 18.85 | 18.83 | 20.64 | 20.65 | 20.56 | 18.32 | 18.86 | 18.93 |
| | | 1 | 1 | 21.15 | 21.20 | 21.00 | 18.82 | 18.78 | 18.96 | 20.30 | 20.67 | 20.52 | 18.31 | 18.94 | 18.94 |
| | | 1 | 214 | 20.91 | 20.84 | 21.00 | 18.88 | **19.02** | 18.80 | 20.70 | 20.71 | **20.89** | 18.94 | 19.12 | **19.22** |
| | | 1 | 215 | 21.10 | 21.19 | 20.90 | 18.86 | 19.00 | 18.82 | 20.76 | 20.71 | 20.78 | 18.78 | 19.20 | 19.10 |
| | | 108 | 54 | 20.88 | 21.00 | 20.95 | 18.80 | 18.71 | 18.81 | 20.66 | 20.42 | 20.56 | 18.60 | 18.94 | 18.96 |
| | | 216 | 0 | 20.94 | 21.03 | 21.03 | 18.82 | 18.76 | 18.86 | 20.65 | 20.44 | 20.58 | 18.64 | 18.96 | 19.01 |

# 8.3. LTE BAND 12 AND 5G NR n12

## LTE BAND 12

**Test Engineer ID:** 39004 **Test Date:** 4/21/2022

## OUTPUT POWER FOR LTE BAND 12 (1.4 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 23017 | 23095 | 23173 | 23017 | 23095 | 23173 |
| | | | | 699.7 | 707.5 | 715.3 | 699.7 | 707.5 | 715.3 |
| 1.4 | QPSK | 1 | 0 | 25.59 | 25.67 | 25.57 | 24.52 | 24.47 | **24.70** |
| | | 1 | 2 | 25.62 | 25.69 | 25.57 | 24.56 | 24.49 | 24.67 |
| | | 1 | 5 | 25.54 | 25.63 | 25.54 | 24.48 | 24.42 | 24.62 |
| | | 3 | 0 | 25.62 | 25.68 | 25.56 | 24.51 | 24.48 | 24.67 |
| | | 3 | 1 | 25.62 | **25.70** | 25.57 | 24.52 | 24.47 | 24.67 |
| | | 3 | 2 | 25.62 | 25.67 | 25.57 | 24.49 | 24.47 | 24.66 |
| | | 6 | 0 | 24.90 | 24.97 | 24.78 | 23.46 | 23.44 | 23.63 |
| | 16QAM | 1 | 0 | 25.11 | 25.13 | 25.03 | 23.83 | 23.87 | **23.90** |
| | | 1 | 2 | 25.09 | 25.12 | 25.12 | 23.85 | **23.90** | 23.88 |
| | | 1 | 5 | 25.01 | **25.14** | 24.99 | 23.80 | 23.84 | 23.82 |
| | | 3 | 0 | 25.10 | 25.13 | 25.05 | 23.70 | 23.86 | 23.81 |
| | | 3 | 1 | 25.10 | 25.12 | 25.02 | 23.67 | 23.88 | 23.82 |
| | | 3 | 2 | 25.07 | 25.10 | 25.06 | 23.66 | 23.89 | 23.81 |
| | | 6 | 0 | 23.95 | 24.02 | 23.83 | 22.50 | 22.77 | 22.73 |
| | 64QAM | 1 | 0 | 24.23 | 24.20 | 24.02 | 22.74 | 23.09 | 22.99 |
| | | 1 | 2 | 24.24 | **24.31** | 24.11 | 22.86 | **23.12** | 23.00 |
| | | 1 | 5 | 24.13 | 24.14 | 24.02 | 22.73 | 23.04 | 22.92 |
| | | 3 | 0 | 24.04 | 24.12 | 24.01 | 22.60 | 22.90 | 22.86 |
| | | 3 | 1 | 24.04 | 24.08 | 23.97 | 22.59 | 22.91 | 22.82 |
| | | 3 | 2 | 24.02 | 24.08 | 24.04 | 22.59 | 22.86 | 22.83 |
| | | 6 | 0 | 22.87 | 23.05 | 22.79 | 21.53 | 21.83 | 21.82 |
| | 256QAM | 1 | 0 | 21.04 | 21.04 | 21.00 | 19.53 | 19.82 | 19.81 |
| | | 1 | 2 | 21.01 | **21.09** | 21.08 | 19.61 | **19.85** | 19.80 |
| | | 1 | 5 | 20.91 | 21.05 | 20.94 | 19.47 | 19.81 | 19.69 |
| | | 3 | 0 | 20.92 | 21.01 | 20.91 | 19.60 | 19.81 | 19.82 |
| | | 3 | 1 | 20.87 | 21.01 | 20.89 | 19.59 | 19.78 | 19.79 |
| | | 3 | 2 | 20.90 | 20.98 | 20.97 | 19.59 | 19.76 | 19.81 |
| | | 6 | 0 | 20.99 | 20.98 | 20.73 | 19.58 | 19.84 | 19.75 |

## OUTPUT POWER FOR LTE BAND 12 (3.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 23025 | 23095 | 23165 | 23025 | 23095 | 23165 |
| | | | | 700.5 | 707.5 | 714.5 | 700.5 | 707.5 | 714.5 |
| 3.0 | QPSK | 1 | 0 | 25.56 | 25.62 | 25.55 | 24.63 | 24.58 | 24.50 |
| | | 1 | 7 | 25.64 | **25.70** | 25.66 | **24.70** | 24.66 | 24.59 |
| | | 1 | 14 | 25.53 | 25.62 | 25.56 | 24.56 | 24.49 | 24.44 |
| | | 8 | 0 | 24.85 | 24.96 | 24.88 | 23.61 | 23.68 | 23.52 |
| | | 8 | 4 | 24.95 | 25.06 | 24.88 | 23.68 | 23.68 | 23.52 |
| | | 8 | 7 | 24.94 | 25.02 | 24.94 | 23.66 | 23.65 | 23.49 |
| | | 15 | 0 | 24.90 | 24.99 | 24.90 | 23.65 | 23.60 | 23.48 |
| | 16QAM | 1 | 0 | 25.20 | 25.35 | 25.24 | 23.98 | 23.94 | 23.87 |
| | | 1 | 7 | 25.29 | **25.41** | 25.35 | 24.03 | **24.04** | 24.01 |
| | | 1 | 14 | 25.11 | 25.32 | 25.21 | 23.83 | 23.89 | 23.89 |
| | | 8 | 0 | 23.93 | 24.06 | 23.95 | 22.69 | 22.69 | 22.60 |
| | | 8 | 4 | 24.04 | 24.16 | 23.95 | 22.76 | 22.74 | 22.60 |
| | | 8 | 7 | 24.02 | 24.11 | 24.02 | 22.75 | 22.70 | 22.58 |
| | | 15 | 0 | 23.96 | 24.04 | 23.96 | 22.69 | 22.64 | 22.53 |
| | 64QAM | 1 | 0 | 24.25 | **24.37** | 24.18 | **22.98** | 22.91 | 22.87 |
| | | 1 | 7 | 24.24 | 24.32 | 24.20 | 22.90 | 22.91 | 22.89 |
| | | 1 | 14 | 24.11 | 24.23 | 24.16 | 22.89 | 22.83 | 22.77 |
| | | 8 | 0 | 22.89 | 23.00 | 22.90 | 21.66 | 21.69 | 21.51 |
| | | 8 | 4 | 22.99 | 23.08 | 22.89 | 21.75 | 21.72 | 21.55 |
| | | 8 | 7 | 22.95 | 23.06 | 22.95 | 21.74 | 21.68 | 21.51 |
| | | 15 | 0 | 22.94 | 22.98 | 22.92 | 21.69 | 21.62 | 21.50 |
| | 256QAM | 1 | 0 | 20.96 | 21.00 | 20.91 | 19.70 | 19.65 | 19.60 |
| | | 1 | 7 | 21.17 | **21.22** | 21.02 | 19.77 | **19.78** | 19.68 |
| | | 1 | 14 | 21.02 | 21.09 | 20.90 | 19.72 | 19.62 | 19.52 |
| | | 8 | 0 | 20.88 | 20.91 | 20.84 | 19.60 | 19.67 | 19.52 |
| | | 8 | 4 | 20.97 | 21.00 | 20.87 | 19.72 | 19.64 | 19.52 |
| | | 8 | 7 | 20.94 | 20.99 | 20.91 | 19.69 | 19.62 | 19.51 |
| | | 15 | 0 | 20.93 | 20.97 | 20.87 | 19.63 | 19.61 | 19.47 |

## OUTPUT POWER FOR LTE BAND 12 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 23035 | 23095 | 23155 | 23035 | 23095 | 23155 |
| | | | | 701.5 | 707.5 | 713.5 | 701.5 | 707.5 | 713.5 |
| 5.0 | QPSK | 1 | 0 | 25.47 | 25.57 | 25.54 | 24.55 | 24.59 | 24.57 |
| | | 1 | 12 | 25.60 | **25.70** | 25.61 | 24.68 | **24.70** | 24.64 |
| | | 1 | 24 | 25.52 | 25.59 | 25.48 | 24.60 | 24.59 | 24.51 |
| | | 12 | 0 | 24.78 | 24.87 | 24.79 | 23.57 | 23.57 | 23.50 |
| | | 12 | 6 | 24.86 | 24.95 | 24.86 | 23.63 | 23.65 | 23.58 |
| | | 12 | 11 | 24.81 | 24.90 | 24.79 | 23.58 | 23.61 | 23.54 |
| | | 25 | 0 | 24.85 | 24.91 | 24.81 | 23.60 | 23.60 | 23.54 |
| | 16QAM | 1 | 0 | 25.14 | 25.20 | 25.18 | 23.89 | 23.87 | 23.88 |
| | | 1 | 12 | 25.24 | **25.41** | 25.28 | 23.98 | **24.02** | 24.00 |
| | | 1 | 24 | 25.19 | 25.21 | 25.08 | 23.94 | 23.92 | 23.80 |
| | | 12 | 0 | 23.78 | 23.91 | 23.89 | 22.63 | 22.53 | 22.44 |
| | | 12 | 6 | 23.89 | 24.01 | 23.99 | 22.72 | 22.60 | 22.53 |
| | | 12 | 11 | 23.82 | 23.94 | 23.93 | 22.67 | 22.57 | 22.47 |
| | | 25 | 0 | 23.82 | 23.90 | 23.83 | 22.65 | 22.65 | 22.53 |
| | 64QAM | 1 | 0 | 24.05 | 24.09 | 24.10 | 22.89 | 22.83 | 22.82 |
| | | 1 | 12 | 24.14 | **24.18** | 24.14 | **22.91** | 22.90 | 22.87 |
| | | 1 | 24 | 24.11 | 24.14 | 24.05 | 22.87 | 22.84 | 22.78 |
| | | 12 | 0 | 22.83 | 22.92 | 22.76 | 21.67 | 21.58 | 21.51 |
| | | 12 | 6 | 22.91 | 22.99 | 22.85 | 21.72 | 21.65 | 21.59 |
| | | 12 | 11 | 22.85 | 22.94 | 22.78 | 21.68 | 21.59 | 21.54 |
| | | 25 | 0 | 22.88 | 22.89 | 22.83 | 21.66 | 21.59 | 21.54 |
| | 256QAM | 1 | 0 | 20.89 | 20.91 | 20.85 | 19.62 | 19.61 | 19.55 |
| | | 1 | 12 | 21.07 | **21.10** | 21.04 | **19.76** | 19.73 | 19.75 |
| | | 1 | 24 | 21.04 | 20.99 | 20.95 | 19.70 | 19.67 | 19.62 |
| | | 12 | 0 | 20.80 | 20.81 | 20.78 | 19.62 | 19.51 | 19.50 |
| | | 12 | 6 | 20.91 | 20.90 | 20.85 | 19.70 | 19.64 | 19.58 |
| | | 12 | 11 | 20.84 | 20.85 | 20.81 | 19.64 | 19.56 | 19.50 |
| | | 25 | 0 | 20.86 | 20.88 | 20.82 | 19.65 | 19.58 | 19.52 |

## OUTPUT POWER FOR LTE BAND 12 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 23060 | 23095 | 23130 | 23060 | 23095 | 23130 |
| | | | | 704.0 | 707.5 | 711.0 | 704.0 | 707.5 | 711.0 |
| 10.0 | QPSK | 1 | 0 | 25.58 | 25.69 | 25.66 | 24.69 | **24.70** | 24.66 |
| | | 1 | 24 | 25.62 | **25.70** | 25.63 | 24.68 | 24.68 | 24.64 |
| | | 1 | 49 | 25.60 | 25.64 | 25.57 | 24.60 | 24.60 | 24.56 |
| | | 25 | 0 | 24.89 | 24.94 | 24.93 | 23.63 | 23.64 | 23.60 |
| | | 25 | 12 | 24.98 | 25.03 | 24.91 | 23.70 | 23.70 | 23.60 |
| | | 25 | 24 | 24.96 | 24.99 | 24.94 | 23.66 | 23.69 | 23.64 |
| | | 50 | 0 | 24.96 | 24.93 | 24.90 | 23.67 | 23.68 | 23.58 |
| | 16QAM | 1 | 0 | 25.22 | **25.44** | 25.28 | 24.05 | **24.14** | 24.07 |
| | | 1 | 24 | 25.13 | 25.31 | 25.16 | 23.96 | 24.02 | 23.98 |
| | | 1 | 49 | 25.20 | 25.30 | 25.18 | 23.92 | 24.05 | 24.01 |
| | | 25 | 0 | 23.91 | 23.95 | 23.97 | 22.62 | 22.67 | 22.60 |
| | | 25 | 12 | 23.98 | 24.04 | 23.95 | 22.68 | 22.74 | 22.62 |
| | | 25 | 24 | 23.97 | 24.00 | 23.99 | 22.65 | 22.70 | 22.68 |
| | | 50 | 0 | 23.98 | 23.94 | 23.89 | 22.69 | 22.70 | 22.57 |
| | 64QAM | 1 | 0 | 24.17 | 24.22 | 24.25 | 22.93 | **23.01** | 22.99 |
| | | 1 | 24 | 24.15 | **24.26** | 24.25 | 22.94 | 22.92 | 22.94 |
| | | 1 | 49 | 24.18 | 24.16 | 24.12 | 22.89 | 22.90 | 22.89 |
| | | 25 | 0 | 22.91 | 22.90 | 22.92 | 21.62 | 21.64 | 21.61 |
| | | 25 | 12 | 22.99 | 23.01 | 22.93 | 21.70 | 21.69 | 21.60 |
| | | 25 | 24 | 22.97 | 22.97 | 22.94 | 21.67 | 21.63 | 21.63 |
| | | 50 | 0 | 22.98 | 22.92 | 22.89 | 21.68 | 21.66 | 21.58 |
| | 256QAM | 1 | 0 | 20.95 | 20.99 | 20.96 | 19.72 | 19.67 | 19.65 |
| | | 1 | 24 | 21.05 | **21.19** | 21.01 | **19.86** | 19.83 | 19.82 |
| | | 1 | 49 | 21.12 | 21.13 | 21.02 | 19.83 | 19.76 | 19.76 |
| | | 25 | 0 | 20.89 | 20.89 | 20.91 | 19.61 | 19.57 | 19.57 |
| | | 25 | 12 | 20.96 | 20.99 | 20.88 | 19.66 | 19.64 | 19.55 |
| | | 25 | 24 | 20.93 | 20.93 | 20.94 | 19.64 | 19.61 | 19.61 |
| | | 50 | 0 | 20.94 | 20.89 | 20.87 | 19.67 | 19.63 | 19.55 |

## 5G NR n12

**Test Engineer ID:** 27957 **Test Date:** 4/22/2022

## OUTPUT POWER FOR 5G NR n12 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 140300 | 141500 | 142700 | 140300 | 141500 | 142700 |
| | | | | 701.5 | 707.5 | 713.5 | 701.5 | 707.5 | 713.5 |
| 5.0 | BPSK | 1 | 0 | 25.10 | 25.16 | 25.16 | 24.49 | 24.44 | 24.50 |
| | | 1 | 1 | 25.55 | 25.65 | **25.66** | **24.70** | 24.65 | 24.68 |
| | | 1 | 23 | 25.52 | 25.60 | 25.58 | 24.60 | **24.70** | 24.61 |
| | | 1 | 24 | 24.98 | 25.09 | 25.08 | 24.38 | 24.54 | 24.42 |
| | | 12 | 6 | 25.52 | 25.62 | **25.66** | 24.60 | 24.66 | 24.66 |
| | | 25 | 0 | 25.03 | 25.02 | 25.10 | 24.32 | 24.39 | 24.41 |
| | QPSK | 1 | 0 | 24.60 | 24.70 | 24.69 | 23.92 | 23.97 | 24.03 |
| | | 1 | 1 | **25.70** | **25.70** | 25.65 | 24.67 | 24.67 | 24.67 |
| | | 1 | 23 | **25.70** | 25.66 | 25.64 | 24.64 | **24.70** | 24.68 |
| | | 1 | 24 | 24.68 | 24.67 | 24.62 | 23.93 | 24.05 | 23.94 |
| | | 12 | 6 | 25.68 | 25.66 | **25.70** | 24.60 | 24.61 | **24.70** |
| | | 25 | 0 | 24.67 | 24.61 | 24.65 | 23.86 | 23.88 | 23.94 |
| | 16QAM | 1 | 0 | 23.60 | 23.85 | 23.86 | 22.87 | 23.16 | 23.21 |
| | | 1 | 1 | 24.59 | 24.88 | **25.07** | 23.87 | 24.16 | 24.23 |
| | | 1 | 23 | 24.58 | 24.90 | 24.62 | 23.80 | **24.25** | 24.17 |
| | | 1 | 24 | 23.49 | 23.82 | 23.81 | 22.76 | 23.25 | 23.15 |
| | | 12 | 6 | 24.59 | 24.60 | 24.54 | 23.91 | 23.76 | 23.90 |
| | | 25 | 0 | 23.62 | 23.57 | 23.61 | 23.04 | 22.94 | 23.03 |
| | 64QAM | 1 | 0 | 23.35 | 23.25 | 23.30 | **22.76** | 22.54 | 22.63 |
| | | 1 | 1 | **23.41** | 23.27 | 23.31 | 22.66 | 22.56 | 22.57 |
| | | 1 | 23 | 23.36 | 23.27 | 23.23 | 22.66 | 22.71 | 22.50 |
| | | 1 | 24 | 23.36 | 23.26 | 23.30 | 22.61 | 22.59 | 22.53 |
| | | 12 | 6 | 23.13 | 22.98 | 23.06 | 22.45 | 22.44 | 22.47 |
| | | 25 | 0 | 23.09 | 23.06 | 23.08 | 22.50 | 22.44 | 22.52 |
| | 256QAM | 1 | 0 | 21.22 | 21.06 | 21.11 | 20.47 | 20.34 | 20.40 |
| | | 1 | 1 | **21.25** | 21.10 | 21.15 | 20.52 | 20.28 | 20.55 |
| | | 1 | 23 | 21.17 | 21.00 | 21.05 | 20.45 | 20.35 | 20.48 |
| | | 1 | 24 | 21.19 | 21.05 | 21.01 | 20.47 | 20.31 | 20.38 |
| | | 12 | 6 | 21.18 | 21.10 | 21.10 | 20.50 | 20.32 | **20.64** |
| | | 25 | 0 | 21.17 | 21.10 | 21.10 | 20.51 | 20.31 | 20.55 |

## OUTPUT POWER FOR 5G NR n12 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 140800 | 141500 | 142200 | 140800 | 141500 | 142200 |
| | | | | 704.0 | 707.5 | 711.0 | 704.0 | 707.5 | 711.0 |
| 10.0 | BPSK | 1 | 0 | 25.18 | 25.04 | 25.10 | 24.42 | 24.51 | 24.47 |
| | | 1 | 1 | **25.70** | 25.55 | 25.63 | **24.70** | **24.70** | 24.62 |
| | | 1 | 50 | 25.44 | 25.36 | 25.48 | 24.46 | 24.65 | 24.55 |
| | | 1 | 51 | 25.00 | 24.92 | 24.99 | 24.30 | 24.41 | 24.38 |
| | | 25 | 12 | 25.47 | 25.52 | 25.55 | 24.51 | 24.55 | 24.62 |
| | | 50 | 0 | 25.05 | 25.07 | 25.05 | 24.32 | 24.38 | 24.42 |
| | QPSK | 1 | 0 | 24.70 | 24.70 | 24.71 | 23.90 | 23.98 | 24.00 |
| | | 1 | 1 | 25.61 | **25.70** | **25.70** | 24.64 | 24.66 | **24.70** |
| | | 1 | 50 | 25.46 | 25.49 | 25.53 | 24.45 | 24.65 | 24.61 |
| | | 1 | 51 | 24.50 | 24.45 | 24.55 | 23.78 | 23.99 | 23.96 |
| | | 25 | 12 | 25.57 | 25.57 | 25.56 | 24.55 | 24.59 | 24.68 |
| | | 50 | 0 | 24.56 | 24.59 | 24.55 | 23.84 | 23.93 | 24.01 |
| | 16QAM | 1 | 0 | 23.61 | 23.86 | 23.86 | 23.03 | 23.23 | 23.25 |
| | | 1 | 1 | 24.78 | 24.85 | **24.89** | 24.25 | **24.27** | 24.26 |
| | | 1 | 50 | 24.74 | 24.79 | 24.71 | 24.03 | 24.20 | 24.12 |
| | | 1 | 51 | 23.66 | 23.82 | 23.72 | 22.94 | 23.16 | 23.13 |
| | | 25 | 12 | 24.56 | 24.58 | 24.55 | 23.81 | 23.85 | 24.01 |
| | | 50 | 0 | 23.50 | 23.56 | 23.54 | 22.81 | 22.90 | 22.98 |
| | 64QAM | 1 | 0 | 23.03 | 23.27 | 23.22 | 22.63 | 22.65 | 22.62 |
| | | 1 | 1 | 23.24 | **23.46** | 23.30 | 22.57 | **22.66** | 22.50 |
| | | 1 | 50 | 23.20 | 23.17 | 23.11 | 22.41 | 22.59 | 22.57 |
| | | 1 | 51 | 23.09 | 23.05 | 23.06 | 22.35 | 22.44 | 22.49 |
| | | 25 | 12 | 22.99 | 22.99 | 22.99 | 22.32 | 22.32 | 22.45 |
| | | 50 | 0 | 22.98 | 23.04 | 23.01 | 22.36 | 22.39 | 22.51 |
| | 256QAM | 1 | 0 | 20.98 | 20.99 | 20.95 | 20.27 | 20.31 | 20.24 |
| | | 1 | 1 | 20.92 | 21.06 | 21.02 | 20.34 | 20.38 | 20.39 |
| | | 1 | 50 | **21.13** | 20.97 | 21.03 | 20.30 | 20.49 | **20.50** |
| | | 1 | 51 | 21.02 | 20.96 | 20.99 | 20.28 | 20.43 | 20.37 |
| | | 25 | 12 | 21.06 | 21.04 | 21.04 | 20.36 | 20.45 | 20.43 |
| | | 50 | 0 | 20.95 | 20.96 | 20.99 | 20.28 | 20.30 | 20.38 |

## OUTPUT POWER FOR 5G NR n12 (15.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 141300 | 141500 | 141700 | 141300 | 141500 | 141700 |
| | | | | 706.5 | 707.5 | 708.5 | 706.5 | 707.5 | 708.5 |
| 15.0 | BPSK | 1 | 0 | 25.16 | 25.16 | 25.12 | 24.47 | 24.46 | 24.45 |
| | | 1 | 1 | **25.70** | 25.67 | 25.65 | 24.66 | **24.67** | 24.66 |
| | | 1 | 77 | 25.54 | 25.52 | 25.51 | 24.64 | 24.60 | 24.64 |
| | | 1 | 78 | 25.04 | 24.99 | 25.00 | 24.41 | 24.43 | 24.42 |
| | | 36 | 18 | 25.51 | 25.56 | 25.51 | 24.56 | 24.62 | 24.59 |
| | | 75 | 0 | 25.06 | 25.13 | 25.01 | 24.43 | 24.44 | 24.42 |
| | QPSK | 1 | 0 | 24.74 | 24.70 | 24.76 | 24.05 | 24.02 | 24.02 |
| | | 1 | 1 | 25.68 | **25.70** | **25.70** | **24.70** | **24.70** | **24.70** |
| | | 1 | 77 | 25.61 | 25.59 | 25.52 | 24.67 | **24.70** | 24.67 |
| | | 1 | 78 | 24.63 | 24.53 | 24.52 | 23.95 | 23.99 | 23.97 |
| | | 36 | 18 | 25.60 | 25.55 | 25.66 | 24.67 | 24.67 | 24.69 |
| | | 75 | 0 | 24.61 | 24.66 | 24.53 | 23.95 | 23.98 | 23.97 |
| | 16QAM | 1 | 0 | 23.86 | 23.84 | 23.86 | 23.25 | 23.29 | 23.26 |
| | | 1 | 1 | **24.95** | 24.90 | 24.88 | 24.22 | 24.23 | 24.22 |
| | | 1 | 77 | 24.71 | 24.77 | 24.75 | 24.14 | 24.23 | **24.24** |
| | | 1 | 78 | 23.72 | 23.73 | 23.73 | 23.12 | 23.30 | 23.20 |
| | | 36 | 18 | 24.62 | 24.67 | 24.62 | 23.94 | 23.99 | 23.93 |
| | | 75 | 0 | 23.70 | 23.67 | 23.65 | 23.02 | 23.04 | 23.05 |
| | 64QAM | 1 | 0 | 23.20 | 23.34 | 23.22 | **22.70** | 22.61 | 22.54 |
| | | 1 | 1 | 23.37 | **23.42** | 23.28 | 22.58 | 22.61 | 22.60 |
| | | 1 | 77 | 23.15 | 23.10 | 23.10 | 22.58 | 22.57 | 22.56 |
| | | 1 | 78 | 23.13 | 23.08 | 23.19 | 22.51 | 22.65 | 22.60 |
| | | 36 | 18 | 23.16 | 23.12 | 23.13 | 22.40 | 22.44 | 22.39 |
| | | 75 | 0 | 23.19 | 23.15 | 23.16 | 22.46 | 22.41 | 22.44 |
| | 256QAM | 1 | 0 | 21.15 | 21.20 | 21.16 | **20.58** | 20.57 | 20.56 |
| | | 1 | 1 | 21.23 | **21.33** | 21.18 | 20.54 | 20.44 | 20.55 |
| | | 1 | 77 | 21.07 | 21.08 | 20.97 | 20.35 | 20.41 | 20.46 |
| | | 1 | 78 | 20.99 | 20.96 | 20.97 | 20.35 | 20.48 | 20.40 |
| | | 36 | 18 | 21.09 | 21.15 | 21.13 | 20.41 | 20.46 | 20.44 |
| | | 75 | 0 | 21.20 | 21.20 | 21.14 | 20.36 | 20.49 | 20.40 |

# 8.4. LTE BAND 13

**Test Engineer ID:** 39004 **Test Date:** 4/21/2022

## OUTPUT POWER FOR LTE BAND 13 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 23205 | 23230 | 23255 | 23205 | 23230 | 23255 |
| | | | | 779.5 | 782.0 | 784.5 | 779.5 | 782.0 | 784.5 |
| 5.0 | QPSK | 1 | 0 | 25.60 | 25.56 | 25.57 | 24.57 | 24.59 | 24.57 |
| | | 1 | 12 | 25.69 | 25.67 | **25.70** | 24.63 | 24.64 | **24.70** |
| | | 1 | 24 | 25.58 | 25.56 | 25.55 | 24.52 | 24.55 | 24.59 |
| | | 12 | 0 | 24.80 | 24.79 | 24.82 | 23.57 | 23.54 | 23.52 |
| | | 12 | 6 | 24.92 | 24.88 | 24.84 | 23.58 | 23.58 | 23.61 |
| | | 12 | 11 | 24.88 | 24.86 | 24.90 | 23.56 | 23.56 | 23.59 |
| | | 25 | 0 | 24.91 | 24.86 | 24.81 | 23.56 | 23.56 | 23.58 |
| | 16QAM | 1 | 0 | 25.19 | 25.20 | 25.23 | 23.88 | 23.91 | 23.91 |
| | | 1 | 12 | 25.32 | 25.30 | **25.34** | **24.06** | 23.97 | 23.98 |
| | | 1 | 24 | 25.18 | 25.17 | 25.21 | 23.87 | 23.87 | 23.93 |
| | | 12 | 0 | 23.84 | 23.83 | 23.88 | 22.59 | 22.71 | 22.50 |
| | | 12 | 6 | 23.96 | 23.95 | 23.92 | 22.62 | 22.73 | 22.61 |
| | | 12 | 11 | 23.92 | 23.91 | 23.96 | 22.59 | 22.69 | 22.58 |
| | | 25 | 0 | 23.90 | 23.86 | 23.81 | 22.58 | 22.58 | 22.59 |
| | 64QAM | 1 | 0 | 24.13 | 24.09 | 24.16 | 22.87 | 22.85 | 22.88 |
| | | 1 | 12 | 24.16 | 24.12 | **24.20** | 22.91 | **22.92** | 22.87 |
| | | 1 | 24 | 24.12 | 24.11 | 24.19 | 22.85 | 22.80 | 22.85 |
| | | 12 | 0 | 22.90 | 22.79 | 22.90 | 21.66 | 21.47 | 21.57 |
| | | 12 | 6 | 23.02 | 22.90 | 22.94 | 21.69 | 21.52 | 21.69 |
| | | 12 | 11 | 22.96 | 22.88 | 22.96 | 21.64 | 21.45 | 21.66 |
| | | 25 | 0 | 22.92 | 22.86 | 22.81 | 21.63 | 21.55 | 21.62 |
| | 256QAM | 1 | 0 | 20.90 | 20.86 | 20.95 | 19.60 | 19.64 | 19.63 |
| | | 1 | 12 | 20.99 | 20.98 | **21.09** | 19.74 | **19.82** | 19.77 |
| | | 1 | 24 | 21.01 | 20.99 | 20.97 | 19.68 | 19.77 | 19.71 |
| | | 12 | 0 | 20.83 | 20.76 | 20.77 | 19.62 | 19.54 | 19.54 |
| | | 12 | 6 | 20.92 | 20.87 | 20.81 | 19.66 | 19.59 | 19.65 |
| | | 12 | 11 | 20.91 | 20.86 | 20.87 | 19.61 | 19.55 | 19.64 |
| | | 25 | 0 | 20.90 | 20.84 | 20.81 | 19.64 | 19.52 | 19.62 |

## OUTPUT POWER FOR LTE BAND 13 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | N/A | 23230 | N/A | N/A | 23230 | N/A |
| | | | | N/A | 782.0 | N/A | N/A | 782.0 | N/A |
| 10.0 | QPSK | 1 | 0 | | **25.70** | | | **24.70** | |
| | | 1 | 24 | | 25.69 | | | 24.68 | |
| | | 1 | 49 | | 25.66 | | | 24.68 | |
| | | 25 | 0 | | 24.95 | | | 23.63 | |
| | | 25 | 12 | | 25.00 | | | 23.69 | |
| | | 25 | 24 | | 24.97 | | | 23.67 | |
| | | 50 | 0 | | 25.04 | | | 23.73 | |
| | 16QAM | 1 | 0 | | **25.41** | | | 23.97 | |
| | | 1 | 24 | | 25.22 | | | 23.93 | |
| | | 1 | 49 | | 25.29 | | | **24.00** | |
| | | 25 | 0 | | 23.93 | | | 22.61 | |
| | | 25 | 12 | | 24.01 | | | 22.70 | |
| | | 25 | 24 | | 23.96 | | | 22.67 | |
| | | 50 | 0 | | 24.04 | | | 22.74 | |
| | 64QAM | 1 | 0 | | **24.31** | | | **23.07** | |
| | | 1 | 24 | | 24.28 | | | 23.00 | |
| | | 1 | 49 | | 24.24 | | | 23.02 | |
| | | 25 | 0 | | 22.93 | | | 21.68 | |
| | | 25 | 12 | | 23.02 | | | 21.76 | |
| | | 25 | 24 | | 22.99 | | | 21.71 | |
| | | 50 | 0 | | 23.04 | | | 21.78 | |
| | 256QAM | 1 | 0 | | 21.01 | | | 19.76 | |
| | | 1 | 24 | | **21.13** | | | **19.91** | |
| | | 1 | 49 | | 21.11 | | | **19.91** | |
| | | 25 | 0 | | 20.93 | | | 19.66 | |
| | | 25 | 12 | | 21.02 | | | 19.73 | |
| | | 25 | 24 | | 21.03 | | | 19.75 | |
| | | 50 | 0 | | 21.03 | | | 19.77 | |

# 8.5. LTE BAND 14 AND 5G NR n14

**Test Engineer ID:** 39004 **Test Date:** 4/21/2022

## OUTPUT POWER FOR LTE BAND 14 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 23305 | 23330 | 23355 | 23305 | 23330 | 23355 |
| | | | | 790.5 | 793.0 | 795.5 | 790.5 | 793.0 | 795.5 |
| 5.0 | QPSK | 1 | 0 | 25.65 | 25.64 | 25.63 | 24.67 | 24.63 | 24.63 |
| | | 1 | 12 | **25.70** | 25.67 | 25.69 | **24.70** | 24.68 | 24.69 |
| | | 1 | 24 | 25.55 | 25.57 | 25.60 | 24.54 | 24.55 | 24.59 |
| | | 12 | 0 | 24.98 | 24.93 | 24.89 | 23.68 | 23.61 | 23.57 |
| | | 12 | 6 | 24.95 | 24.95 | 24.87 | 23.67 | 23.59 | 23.59 |
| | | 12 | 11 | 24.85 | 24.84 | 24.86 | 23.56 | 23.54 | 23.55 |
| | | 25 | 0 | 24.92 | 24.89 | 24.85 | 23.60 | 23.56 | 23.54 |
| | 16QAM | 1 | 0 | 25.33 | 25.29 | 25.31 | 24.09 | 23.97 | 23.92 |
| | | 1 | 12 | 25.34 | 25.37 | **25.43** | **24.11** | 24.04 | 24.10 |
| | | 1 | 24 | 25.25 | 25.22 | 25.26 | 23.92 | 23.91 | 23.97 |
| | | 12 | 0 | 23.97 | 23.97 | 24.00 | 22.81 | 22.59 | 22.60 |
| | | 12 | 6 | 23.97 | 23.96 | 24.01 | 22.81 | 22.58 | 22.60 |
| | | 12 | 11 | 23.88 | 23.89 | 24.02 | 22.73 | 22.50 | 22.60 |
| | | 25 | 0 | 23.90 | 23.95 | 23.90 | 22.62 | 22.60 | 22.52 |
| | 64QAM | 1 | 0 | 24.21 | 24.20 | 24.22 | **22.96** | 22.94 | 22.94 |
| | | 1 | 12 | 24.23 | 24.20 | **24.25** | 22.88 | 22.88 | 22.95 |
| | | 1 | 24 | 24.08 | 24.15 | 24.20 | 22.82 | 22.90 | 22.91 |
| | | 12 | 0 | 22.98 | 22.84 | 23.00 | 21.73 | 21.53 | 21.70 |
| | | 12 | 6 | 22.96 | 22.82 | 23.02 | 21.71 | 21.53 | 21.72 |
| | | 12 | 11 | 22.89 | 22.74 | 23.02 | 21.63 | 21.45 | 21.72 |
| | | 25 | 0 | 22.92 | 22.89 | 22.86 | 21.60 | 21.59 | 21.56 |
| | 256QAM | 1 | 0 | 20.99 | 21.08 | 20.88 | 19.74 | 19.72 | 19.58 |
| | | 1 | 12 | **21.11** | 21.10 | 21.05 | 19.82 | **19.83** | 19.74 |
| | | 1 | 24 | 20.94 | 21.02 | 21.00 | 19.71 | 19.70 | 19.73 |
| | | 12 | 0 | 20.95 | 20.92 | 20.89 | 19.63 | 19.64 | 19.57 |
| | | 12 | 6 | 20.94 | 20.93 | 20.91 | 19.62 | 19.60 | 19.59 |
| | | 12 | 11 | 20.85 | 20.84 | 20.89 | 19.55 | 19.52 | 19.60 |
| | | 25 | 0 | 20.90 | 20.89 | 20.84 | 19.58 | 19.57 | 19.54 |

## OUTPUT POWER FOR LTE BAND 14 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | N/A | 23330 | N/A | N/A | 23330 | N/A |
| | | | | N/A | 793.0 | N/A | N/A | 793.0 | N/A |
| 10.0 | QPSK | 1 | 0 | | **25.70** | | | **24.70** | |
| | | 1 | 24 | | 25.65 | | | 24.65 | |
| | | 1 | 49 | | 25.68 | | | 24.65 | |
| | | 25 | 0 | | 24.96 | | | 23.64 | |
| | | 25 | 12 | | 24.98 | | | 23.65 | |
| | | 25 | 24 | | 24.93 | | | 23.67 | |
| | | 50 | 0 | | 24.95 | | | 23.64 | |
| | 16QAM | 1 | 0 | | **25.35** | | | **24.07** | |
| | | 1 | 24 | | 25.13 | | | 23.86 | |
| | | 1 | 49 | | 25.29 | | | 23.98 | |
| | | 25 | 0 | | 23.98 | | | 22.65 | |
| | | 25 | 12 | | 23.95 | | | 22.64 | |
| | | 25 | 24 | | 23.96 | | | 22.63 | |
| | | 50 | 0 | | 23.95 | | | 22.64 | |
| | 64QAM | 1 | 0 | | **24.22** | | | **23.02** | |
| | | 1 | 24 | | 24.12 | | | 22.90 | |
| | | 1 | 49 | | 24.18 | | | 22.95 | |
| | | 25 | 0 | | 23.00 | | | 21.68 | |
| | | 25 | 12 | | 22.99 | | | 21.67 | |
| | | 25 | 24 | | 22.96 | | | 21.64 | |
| | | 50 | 0 | | 22.95 | | | 21.66 | |
| | 256QAM | 1 | 0 | | 20.92 | | | 19.70 | |
| | | 1 | 24 | | 21.08 | | | 19.78 | |
| | | 1 | 49 | | **21.12** | | | **19.81** | |
| | | 25 | 0 | | 20.98 | | | 19.65 | |
| | | 25 | 12 | | 20.97 | | | 19.66 | |
| | | 25 | 24 | | 20.94 | | | 19.63 | |
| | | 50 | 0 | | 20.95 | | | 19.64 | |

## 5G NR n14

| Test Engineer ID: | 27957 | Test Date: | 5/16/2022 |
|---|---|---|---|

## OUTPUT POWER FOR 5G NR n14 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 158100 | 158600 | 159100 | 158100 | 158600 | 159100 |
| | | | | 790.5 | 793.0 | 795.5 | 790.5 | 793.0 | 795.5 |
| 5.0 | BPSK | 1 | 0 | 23.70 | 23.58 | 23.70 | 22.55 | 22.70 | 22.70 |
| | | 1 | 1 | **25.70** | 25.64 | 25.67 | 24.61 | 24.68 | **24.70** |
| | | 1 | 23 | 25.59 | 25.67 | 25.57 | 24.54 | 24.55 | 24.56 |
| | | 1 | 24 | 23.63 | 23.70 | 23.65 | 22.67 | 22.70 | 22.67 |
| | | 12 | 6 | 25.66 | 25.67 | 25.66 | 24.48 | 24.62 | 24.65 |
| | | 25 | 0 | 25.04 | 25.12 | 25.03 | 24.26 | 24.32 | 24.35 |
| | QPSK | 1 | 0 | 23.70 | 23.66 | 23.66 | 22.60 | 22.65 | 22.70 |
| | | 1 | 1 | 25.68 | 25.64 | **25.70** | **24.70** | **24.70** | **24.70** |
| | | 1 | 23 | 25.62 | **25.70** | 25.64 | 24.56 | 24.59 | 24.58 |
| | | 1 | 24 | 23.65 | 23.70 | 23.62 | 22.58 | 22.63 | 22.70 |
| | | 12 | 6 | 25.64 | 25.64 | 25.69 | 24.55 | 24.65 | 24.64 |
| | | 25 | 0 | 24.61 | 24.68 | 24.59 | 23.85 | 23.92 | 23.92 |
| | 16QAM | 1 | 0 | 23.65 | 23.65 | 23.70 | 22.12 | 22.55 | 22.70 |
| | | 1 | 1 | **24.95** | 24.88 | 24.89 | 23.91 | **24.27** | **24.27** |
| | | 1 | 23 | 24.87 | **24.95** | 24.87 | 23.70 | 24.07 | 24.15 |
| | | 1 | 24 | 23.64 | 23.70 | 23.62 | 22.26 | 22.69 | 22.70 |
| | | 12 | 6 | 24.60 | 24.70 | 24.64 | 23.94 | 23.95 | 23.99 |
| | | 25 | 0 | 23.61 | 23.71 | 23.55 | 22.83 | 22.90 | 22.95 |
| | 64QAM | 1 | 0 | **23.40** | 23.27 | 23.35 | 22.53 | **22.68** | 22.58 |
| | | 1 | 1 | 23.39 | 23.32 | 23.34 | 22.60 | 22.58 | 22.60 |
| | | 1 | 23 | 23.25 | 23.30 | 23.17 | 22.40 | 22.48 | 22.51 |
| | | 1 | 24 | 23.26 | 23.16 | 23.17 | 22.38 | 22.44 | 22.46 |
| | | 12 | 6 | 23.05 | 23.11 | 23.04 | 22.33 | 22.42 | 22.45 |
| | | 25 | 0 | 23.12 | 23.12 | 23.08 | 22.30 | 22.37 | 22.32 |
| | 256QAM | 1 | 0 | 21.10 | 21.03 | 21.10 | 20.35 | 20.30 | 20.33 |
| | | 1 | 1 | 20.99 | 21.10 | 21.03 | 20.37 | 20.37 | 20.35 |
| | | 1 | 23 | 21.08 | 21.08 | 21.06 | 20.26 | 20.25 | 20.27 |
| | | 1 | 24 | 21.10 | 21.05 | 21.01 | 20.30 | 20.29 | 20.35 |
| | | 12 | 6 | 21.09 | **21.16** | 21.08 | 20.32 | 20.38 | **20.40** |
| | | 25 | 0 | 21.14 | 21.14 | 21.11 | 20.28 | 20.35 | 20.35 |

## OUTPUT POWER FOR 5G NR n14 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | NA | 158600 | NA | NA | 158600 | NA |
| | | | | NA | 793.0 | NA | NA | 793.0 | NA |
| 10.0 | BPSK | 1 | 0 | | 23.70 | | | 22.70 | |
| | | 1 | 1 | | **25.70** | | | **24.70** | |
| | | 1 | 50 | | 25.62 | | | 24.55 | |
| | | 1 | 51 | | 23.70 | | | 22.70 | |
| | | 25 | 12 | | 25.58 | | | 24.59 | |
| | | 50 | 0 | | 25.17 | | | 24.44 | |
| | QPSK | 1 | 0 | | 23.70 | | | 22.70 | |
| | | 1 | 1 | | 25.66 | | | **24.63** | |
| | | 1 | 50 | | 25.60 | | | 24.55 | |
| | | 1 | 51 | | 23.70 | | | 22.70 | |
| | | 25 | 12 | | **25.67** | | | 24.61 | |
| | | 50 | 0 | | 24.57 | | | 23.88 | |
| | 16QAM | 1 | 0 | | 23.70 | | | 22.70 | |
| | | 1 | 1 | | **24.87** | | | **24.10** | |
| | | 1 | 50 | | 24.86 | | | 24.03 | |
| | | 1 | 51 | | 23.70 | | | 22.70 | |
| | | 25 | 12 | | 24.64 | | | 23.89 | |
| | | 50 | 0 | | 23.63 | | | 22.85 | |
| | 64QAM | 1 | 0 | | **23.36** | | | 22.58 | |
| | | 1 | 1 | | 23.22 | | | **22.60** | |
| | | 1 | 50 | | 23.27 | | | 22.56 | |
| | | 1 | 51 | | 23.17 | | | 22.45 | |
| | | 25 | 12 | | 23.05 | | | 22.38 | |
| | | 50 | 0 | | 23.10 | | | 22.38 | |
| | 256QAM | 1 | 0 | | 21.00 | | | 20.27 | |
| | | 1 | 1 | | 21.02 | | | 20.33 | |
| | | 1 | 50 | | 20.97 | | | 20.24 | |
| | | 1 | 51 | | 21.03 | | | **20.34** | |
| | | 25 | 12 | | **21.12** | | | **20.34** | |
| | | 50 | 0 | | 21.09 | | | 20.32 | |

# 8.6. LTE BAND 17

**Test Engineer ID:** 39004 **Test Date:** 4/21/2022

## OUTPUT POWER FOR LTE BAND 17 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 23755 | 23790 | 23825 | 23755 | 23790 | 23825 |
| | | | | 706.5 | 710.0 | 713.5 | 706.5 | 710.0 | 713.5 |
| 5.0 | QPSK | 1 | 0 | 25.61 | 25.67 | 25.68 | 24.68 | 24.69 | 24.65 |
| | | 1 | 12 | 25.65 | **25.70** | 25.68 | 24.65 | **24.70** | 24.68 |
| | | 1 | 24 | 25.53 | 25.58 | 25.54 | 24.54 | 24.53 | 24.56 |
| | | 12 | 0 | 24.89 | 24.96 | 24.92 | 23.61 | 23.62 | 23.60 |
| | | 12 | 6 | 24.92 | 24.97 | 24.93 | 23.60 | 23.63 | 23.55 |
| | | 12 | 11 | 24.87 | 24.89 | 24.85 | 23.58 | 23.57 | 23.54 |
| | | 25 | 0 | 24.90 | 24.87 | 24.93 | 23.61 | 23.64 | 23.55 |
| | 16QAM | 1 | 0 | 25.29 | 25.31 | 25.31 | 24.03 | 24.00 | 23.99 |
| | | 1 | 12 | 25.28 | **25.42** | 25.33 | 23.99 | **24.14** | 24.10 |
| | | 1 | 24 | 25.19 | 25.18 | 25.15 | 23.93 | 23.89 | 23.84 |
| | | 12 | 0 | 23.98 | 24.07 | 24.01 | 22.66 | 22.63 | 22.64 |
| | | 12 | 6 | 24.01 | 24.11 | 24.03 | 22.72 | 22.66 | 22.58 |
| | | 12 | 11 | 23.94 | 24.03 | 23.97 | 22.66 | 22.58 | 22.59 |
| | | 25 | 0 | 23.89 | 23.85 | 23.91 | 22.64 | 22.64 | 22.59 |
| | 64QAM | 1 | 0 | 24.21 | 24.22 | **24.25** | 22.93 | **22.99** | 22.92 |
| | | 1 | 12 | 24.13 | 24.17 | 24.20 | 22.87 | 22.87 | 22.90 |
| | | 1 | 24 | 24.14 | 24.09 | 24.07 | 22.81 | 22.84 | 22.76 |
| | | 12 | 0 | 22.94 | 23.04 | 23.01 | 21.53 | 21.64 | 21.69 |
| | | 12 | 6 | 22.97 | 23.05 | 23.03 | 21.55 | 21.65 | 21.64 |
| | | 12 | 11 | 22.90 | 23.00 | 22.94 | 21.48 | 21.58 | 21.65 |
| | | 25 | 0 | 22.94 | 22.90 | 22.94 | 21.61 | 21.63 | 21.54 |
| | 256QAM | 1 | 0 | 20.96 | 21.06 | 21.02 | 19.71 | **19.78** | 19.72 |
| | | 1 | 12 | 20.98 | **21.13** | 20.99 | 19.69 | 19.75 | 19.69 |
| | | 1 | 24 | 20.94 | 21.03 | 20.95 | 19.68 | 19.65 | 19.60 |
| | | 12 | 0 | 20.93 | 20.92 | 20.93 | 19.59 | 19.58 | 19.61 |
| | | 12 | 6 | 20.96 | 20.96 | 20.94 | 19.61 | 19.64 | 19.54 |
| | | 12 | 11 | 20.89 | 20.90 | 20.87 | 19.55 | 19.55 | 19.55 |
| | | 25 | 0 | 20.92 | 20.87 | 20.93 | 19.61 | 19.60 | 19.52 |

## OUTPUT POWER FOR LTE BAND 17 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 23780 | 23790 | 23800 | 23780 | 23790 | 23800 |
| | | | | 709.0 | 710.0 | 711.0 | 709.0 | 710.0 | 711.0 |
| 10.0 | QPSK | 1 | 0 | 25.60 | 25.63 | 25.63 | 24.65 | 24.69 | **24.70** |
| | | 1 | 24 | 25.66 | **25.70** | 25.69 | 24.67 | 24.69 | 24.67 |
| | | 1 | 49 | 25.59 | 25.62 | 25.60 | 24.60 | 24.63 | 24.61 |
| | | 25 | 0 | 24.93 | 24.98 | 24.98 | 23.64 | 23.69 | 23.70 |
| | | 25 | 12 | 25.02 | 25.00 | 24.98 | 23.73 | 23.76 | 23.77 |
| | | 25 | 24 | 24.95 | 24.99 | 24.97 | 23.64 | 23.69 | 23.69 |
| | | 50 | 0 | 24.90 | 24.95 | 24.95 | 23.69 | 23.72 | 23.63 |
| | 16QAM | 1 | 0 | 25.25 | **25.35** | 25.31 | 24.02 | 24.11 | **24.12** |
| | | 1 | 24 | 25.19 | 25.25 | **25.35** | 23.92 | 24.02 | 24.05 |
| | | 1 | 49 | 25.21 | 25.34 | 25.32 | 23.97 | 24.02 | 24.08 |
| | | 25 | 0 | 23.99 | 23.99 | 24.00 | 22.64 | 22.72 | 22.70 |
| | | 25 | 12 | 24.06 | 23.99 | 24.03 | 22.72 | 22.81 | 22.79 |
| | | 25 | 24 | 23.99 | 23.99 | 24.00 | 22.66 | 22.70 | 22.71 |
| | | 50 | 0 | 23.90 | 23.94 | 23.95 | 22.70 | 22.73 | 22.64 |
| | 64QAM | 1 | 0 | 24.21 | 24.19 | 24.22 | 22.98 | 22.98 | 22.97 |
| | | 1 | 24 | 24.25 | 24.23 | **24.30** | 22.97 | 22.98 | **22.99** |
| | | 1 | 49 | 24.21 | 24.15 | 24.19 | 22.91 | 22.91 | 22.91 |
| | | 25 | 0 | 22.94 | 22.94 | 22.96 | 21.66 | 21.67 | 21.67 |
| | | 25 | 12 | 23.03 | 22.95 | 22.98 | 21.75 | 21.74 | 21.74 |
| | | 25 | 24 | 22.93 | 22.93 | 22.96 | 21.66 | 21.67 | 21.65 |
| | | 50 | 0 | 22.89 | 22.92 | 22.94 | 21.70 | 21.70 | 21.62 |
| | 256QAM | 1 | 0 | 20.91 | 20.87 | 20.96 | 19.62 | 19.75 | 19.68 |
| | | 1 | 24 | **21.09** | 21.08 | 21.06 | 19.73 | **19.87** | 19.78 |
| | | 1 | 49 | 21.03 | 21.00 | 20.98 | 19.71 | 19.80 | 19.71 |
| | | 25 | 0 | 20.92 | 20.92 | 20.94 | 19.65 | 19.63 | 19.65 |
| | | 25 | 12 | 21.01 | 20.94 | 20.95 | 19.71 | 19.72 | 19.73 |
| | | 25 | 24 | 20.95 | 20.93 | 20.93 | 19.63 | 19.63 | 19.67 |
| | | 50 | 0 | 20.89 | 20.88 | 20.89 | 19.66 | 19.68 | 19.60 |

# 8.7. LTE BAND 25 AND 5G NR n25

**Test Engineer ID:** 39004 **Test Date:** 4/21/2022

## OUTPUT POWER FOR LTE BAND 25 (1.4 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 26047 | 26365 | 26683 | 26047 | 26365 | 26683 | 26047 | 26365 | 26683 | 26047 | 26365 | 26683 |
| | | | | 1850.7 | 1882.5 | 1914.3 | 1850.7 | 1882.5 | 1914.3 | 1850.7 | 1882.5 | 1914.3 | 1850.7 | 1882.5 | 1914.3 |
| 1.4 | QPSK | 1 | 0 | 25.64 | 25.68 | 25.64 | 23.38 | 23.27 | 23.20 | 25.13 | 25.16 | 25.16 | 22.13 | 22.38 | 22.57 |
| | | 1 | 2 | 25.62 | 25.67 | 25.64 | **23.40** | 23.27 | 23.21 | 25.15 | 25.18 | 25.16 | 22.14 | 22.38 | 22.56 |
| | | 1 | 5 | 25.62 | 25.65 | 25.63 | 23.37 | 23.26 | 23.18 | 25.12 | 25.14 | **25.20** | 22.12 | 22.41 | 22.54 |
| | | 3 | 0 | 25.64 | **25.70** | 25.65 | 23.35 | 23.26 | 23.18 | 25.11 | 25.17 | 25.15 | **22.60** | 22.41 | 22.51 |
| | | 3 | 1 | 25.65 | 25.68 | 25.65 | 23.32 | 23.27 | 23.19 | 25.11 | 25.17 | 25.16 | 22.58 | 22.42 | 22.53 |
| | | 3 | 2 | 25.66 | 25.69 | 25.69 | 23.34 | 23.27 | 23.19 | 25.10 | 25.18 | 25.17 | 22.56 | 22.41 | 22.50 |
| | | 6 | 0 | 24.94 | 24.98 | 24.96 | 22.32 | 22.26 | 22.17 | 24.09 | 24.15 | 24.05 | 21.66 | 21.36 | 21.49 |
| | 16QAM | 1 | 0 | 25.14 | 25.20 | 25.19 | **22.72** | 22.52 | 22.38 | 24.50 | 24.34 | 24.49 | 21.81 | 21.76 | 21.88 |
| | | 1 | 2 | 25.17 | 25.26 | 25.22 | 22.71 | 22.49 | 22.47 | 24.51 | 24.33 | 24.51 | 21.90 | 21.75 | 21.88 |
| | | 1 | 5 | 25.16 | **25.28** | 25.14 | 22.68 | 22.50 | 22.40 | 24.44 | 24.36 | **24.58** | 21.82 | 21.74 | 21.90 |
| | | 3 | 0 | 25.12 | 25.19 | 25.16 | 22.56 | 22.46 | 22.36 | 24.29 | 24.32 | 24.31 | **21.91** | 21.58 | 21.73 |
| | | 3 | 1 | 25.14 | 25.16 | 25.19 | 22.55 | 22.47 | 22.38 | 24.30 | 24.36 | 24.32 | 21.87 | 21.56 | 21.73 |
| | | 3 | 2 | 25.13 | 25.19 | 25.16 | 22.57 | 22.49 | 22.36 | 24.30 | 24.34 | 24.32 | 21.86 | 21.59 | 21.73 |
| | | 6 | 0 | 24.00 | 24.01 | 24.04 | 21.41 | 21.31 | 21.28 | 23.19 | 23.19 | 23.11 | 20.74 | 20.41 | 20.61 |
| | 64QAM | 1 | 0 | 24.23 | 24.27 | 24.29 | **21.68** | 21.63 | 21.48 | 23.40 | 23.41 | 23.35 | 20.24 | 19.97 | 20.05 |
| | | 1 | 2 | 24.32 | **24.34** | 24.28 | 21.64 | **21.68** | 21.59 | **23.54** | 23.45 | 23.35 | **20.36** | 19.94 | 20.06 |
| | | 1 | 5 | 24.29 | 24.26 | 24.20 | 21.60 | 21.59 | 21.47 | 23.35 | 23.43 | 23.41 | 20.28 | 20.04 | 20.06 |
| | | 3 | 0 | 24.08 | 24.10 | 24.11 | 21.46 | 21.45 | 21.35 | 23.28 | 23.41 | 23.40 | 20.22 | 20.06 | 19.99 |
| | | 3 | 1 | 24.07 | 24.11 | 24.11 | 21.52 | 21.41 | 21.35 | 23.25 | 23.42 | 23.34 | 20.24 | 20.03 | 20.03 |
| | | 3 | 2 | 24.08 | 24.09 | 24.11 | 21.47 | 21.40 | 21.35 | 23.24 | 23.46 | 23.36 | 20.20 | 20.05 | 20.04 |
| | | 6 | 0 | 23.04 | 23.10 | 23.02 | 20.49 | 20.38 | 20.26 | 22.21 | 23.42 | 23.42 | 19.06 | 20.04 | 20.04 |
| | 256QAM | 1 | 0 | 21.09 | 21.09 | 21.06 | 18.54 | 18.42 | 18.32 | 20.22 | 20.26 | 20.11 | 17.18 | 16.89 | 17.01 |
| | | 1 | 2 | 21.04 | **21.13** | 21.11 | **18.61** | 18.43 | 18.31 | 20.25 | 20.28 | 20.17 | **17.19** | 16.96 | 17.04 |
| | | 1 | 5 | 21.07 | 21.09 | 21.05 | 18.50 | 18.42 | 18.27 | 20.21 | **20.29** | 20.24 | 17.18 | 16.84 | 17.01 |
| | | 3 | 0 | 20.93 | 20.97 | 20.96 | 18.42 | 18.34 | 18.25 | 20.12 | 20.21 | 20.15 | 17.12 | 16.91 | 16.89 |
| | | 3 | 1 | 20.96 | 20.98 | 20.99 | 18.41 | 18.34 | 18.27 | 20.13 | 20.22 | 20.14 | 17.12 | 16.88 | 16.89 |
| | | 3 | 2 | 20.94 | 20.98 | 20.96 | 18.41 | 18.34 | 18.25 | 20.12 | 20.23 | 20.15 | 17.13 | 16.90 | 16.88 |
| | | 6 | 0 | 20.93 | 20.86 | 20.92 | 18.18 | 18.30 | 18.26 | 20.20 | 20.18 | 20.06 | 17.11 | 16.80 | 17.05 |

## OUTPUT POWER FOR LTE BAND 25 (3.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 26055 | 26365 | 26675 | 26055 | 26365 | 26675 | 26055 | 26365 | 26675 | 26055 | 26365 | 26675 |
| | | | | 1851.5 | 1882.5 | 1913.5 | 1851.5 | 1882.5 | 1913.5 | 1851.5 | 1882.5 | 1913.5 | 1851.5 | 1882.5 | 1913.5 |
| 3.0 | QPSK | 1 | 0 | 25.61 | 25.66 | 25.57 | 23.36 | 23.26 | 23.17 | 25.05 | 25.09 | 25.13 | 22.54 | 22.51 | 22.44 |
| | | 1 | 7 | 25.69 | **25.70** | 25.66 | **23.40** | 23.34 | 23.25 | 25.11 | 25.16 | **25.20** | **22.60** | 22.53 | 22.51 |
| | | 1 | 14 | 25.63 | 25.65 | 25.56 | 23.35 | 23.26 | 23.15 | 25.03 | 25.09 | 25.12 | 22.51 | 22.45 | 22.43 |
| | | 8 | 0 | 24.99 | 25.01 | 24.97 | 22.38 | 22.34 | 22.24 | 24.11 | 24.10 | 24.11 | 21.57 | 21.53 | 21.48 |
| | | 8 | 4 | 25.01 | 25.03 | 24.99 | 22.41 | 22.34 | 22.28 | 24.12 | 24.12 | 24.13 | 21.63 | 21.55 | 21.50 |
| | | 8 | 7 | 24.99 | 25.02 | 24.99 | 22.39 | 22.33 | 22.26 | 24.12 | 24.18 | 24.19 | 21.62 | 21.55 | 21.51 |
| | | 15 | 0 | 24.97 | 24.99 | 24.96 | 22.38 | 22.32 | 22.22 | 24.10 | 24.06 | 24.08 | 21.59 | 21.52 | 21.48 |
| | 16QAM | 1 | 0 | 25.22 | 25.28 | 25.27 | 22.72 | 22.70 | 22.60 | 24.35 | 24.51 | 24.50 | 21.99 | 21.89 | 21.78 |
| | | 1 | 7 | 25.35 | 25.35 | **25.37** | **22.74** | 22.73 | 22.69 | 24.45 | **24.61** | 24.55 | **22.04** | 21.91 | 21.81 |
| | | 1 | 14 | 25.25 | 25.26 | 25.27 | 22.66 | 22.69 | 22.62 | 24.35 | 24.47 | 24.49 | 21.95 | 21.86 | 21.76 |
| | | 8 | 0 | 23.98 | 24.05 | 24.03 | 21.45 | 21.38 | 21.30 | 23.15 | 23.14 | 23.19 | 20.69 | 20.63 | 20.56 |
| | | 8 | 4 | 24.01 | 24.07 | 24.07 | 21.47 | 21.41 | 21.35 | 23.17 | 23.18 | 23.21 | 20.74 | 20.65 | 20.60 |
| | | 8 | 7 | 24.01 | 24.08 | 24.06 | 21.48 | 21.41 | 21.32 | 23.18 | 23.24 | 23.29 | 20.72 | 20.65 | 20.59 |
| | | 15 | 0 | 23.98 | 24.04 | 23.98 | 21.41 | 21.36 | 21.28 | 23.12 | 23.10 | 23.14 | 20.64 | 20.57 | 20.49 |
| | 64QAM | 1 | 0 | **24.31** | 24.28 | 24.28 | 21.67 | 21.66 | 21.54 | 23.28 | 23.28 | 23.27 | **20.34** | 20.24 | 20.12 |
| | | 1 | 7 | 24.22 | 24.23 | 24.18 | **21.72** | 21.66 | 21.56 | 23.27 | 23.30 | 23.21 | 20.30 | 20.15 | 20.03 |
| | | 1 | 14 | 24.23 | 24.30 | 24.21 | 21.65 | 21.62 | 21.48 | 23.23 | 23.35 | 23.41 | 20.29 | 20.18 | 20.12 |
| | | 8 | 0 | 23.00 | 23.04 | 23.03 | 20.47 | 20.39 | 20.37 | 22.17 | 23.35 | **23.42** | 19.12 | 20.19 | 20.08 |
| | | 8 | 4 | 23.01 | 23.07 | 23.07 | 20.47 | 20.41 | 20.38 | 22.19 | 23.35 | 23.37 | 19.13 | 20.20 | 20.08 |
| | | 8 | 7 | 23.02 | 23.07 | 23.05 | 20.48 | 20.43 | 20.38 | 22.18 | 23.34 | 23.40 | 19.14 | 20.17 | 20.06 |
| | | 15 | 0 | 22.98 | 23.03 | 22.99 | 20.42 | 20.36 | 20.30 | 22.14 | 23.34 | 23.35 | 19.07 | 20.20 | 20.14 |
| | 256QAM | 1 | 0 | 20.92 | 21.14 | 21.09 | 18.45 | 18.41 | 18.39 | 20.15 | 20.21 | 20.17 | 17.17 | 17.00 | 16.96 |
| | | 1 | 7 | 21.08 | **21.17** | 21.12 | **18.51** | 18.47 | 18.35 | **20.33** | 20.31 | 20.32 | **17.23** | 17.11 | 17.00 |
| | | 1 | 14 | 21.08 | 21.08 | 21.10 | 18.48 | 18.49 | 18.37 | 20.24 | 20.27 | 20.30 | 17.19 | 16.97 | 16.98 |
| | | 8 | 0 | 20.97 | 21.00 | 20.95 | 18.40 | 18.37 | 18.26 | 20.15 | 20.12 | 20.09 | 17.05 | 16.94 | 16.90 |
| | | 8 | 4 | 21.00 | 21.04 | 20.98 | 18.43 | 18.41 | 18.29 | 20.18 | 20.16 | 20.14 | 17.08 | 16.97 | 16.92 |
| | | 8 | 7 | 21.01 | 21.03 | 20.95 | 18.43 | 18.39 | 18.28 | 20.16 | 20.24 | 20.21 | 17.08 | 16.96 | 16.94 |
| | | 15 | 0 | 20.95 | 20.98 | 20.95 | 18.40 | 18.37 | 18.28 | 20.14 | 20.10 | 20.10 | 17.06 | 16.93 | 16.87 |

## OUTPUT POWER FOR LTE BAND 25 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 26065 | 26365 | 26665 | 26065 | 26365 | 26665 | 26065 | 26365 | 26665 | 26065 | 26365 | 26665 |
| | | | | 1852.5 | 1882.5 | 1912.5 | 1852.5 | 1882.5 | 1912.5 | 1852.5 | 1882.5 | 1912.5 | 1852.5 | 1882.5 | 1912.5 |
| 5.0 | QPSK | 1 | 0 | 25.62 | 25.62 | 25.54 | 23.35 | 23.29 | 23.12 | 25.07 | 25.10 | 25.08 | **22.60** | 22.52 | 22.35 |
| | | 1 | 12 | 25.68 | **25.70** | 25.67 | **23.40** | 23.36 | 23.23 | 25.11 | 25.16 | **25.20** | 22.58 | 22.57 | 22.44 |
| | | 1 | 24 | 25.65 | 25.66 | 25.56 | 23.34 | 23.31 | 23.15 | 25.06 | 25.16 | 25.09 | 22.56 | 22.49 | 22.38 |
| | | 12 | 0 | 24.87 | 24.90 | 24.85 | 22.37 | 22.19 | 22.13 | 24.03 | 24.06 | 24.07 | 21.59 | 21.47 | 21.34 |
| | | 12 | 6 | 24.93 | 24.98 | 24.93 | 22.37 | 22.29 | 22.22 | 24.08 | 24.06 | 24.13 | 21.58 | 21.53 | 21.35 |
| | | 12 | 11 | 24.95 | 24.94 | 24.90 | 22.36 | 22.29 | 22.19 | 24.06 | 24.11 | 24.09 | 21.56 | 21.49 | 21.44 |
| | | 25 | 0 | 24.93 | 24.97 | 24.93 | 22.35 | 22.29 | 22.21 | 24.07 | 24.06 | 24.14 | 21.56 | 21.49 | 21.34 |
| | 16QAM | 1 | 0 | 25.28 | 25.35 | 25.22 | 22.75 | 22.60 | 22.51 | 24.44 | 24.51 | 24.41 | **21.97** | 21.86 | 21.78 |
| | | 1 | 12 | 25.34 | 25.40 | **25.43** | **22.79** | 22.70 | 22.67 | **24.58** | **24.58** | 24.56 | 21.95 | 21.92 | 21.95 |
| | | 1 | 24 | 25.31 | 25.31 | 25.24 | 22.74 | 22.64 | 22.52 | 24.50 | 24.55 | 24.46 | 21.93 | 21.82 | 21.85 |
| | | 12 | 0 | 23.89 | 23.96 | 23.91 | 21.49 | 21.30 | 21.08 | 23.05 | 23.06 | 23.14 | 20.63 | 20.59 | 20.37 |
| | | 12 | 6 | 23.96 | 24.04 | 23.98 | 21.50 | 21.38 | 21.19 | 23.11 | 23.05 | 23.19 | 20.64 | 20.61 | 20.38 |
| | | 12 | 11 | 23.96 | 24.03 | 23.97 | 21.48 | 21.38 | 21.17 | 23.12 | 23.12 | 23.19 | 20.61 | 20.58 | 20.44 |
| | | 25 | 0 | 23.98 | 23.99 | 23.94 | 21.41 | 21.30 | 21.19 | 23.11 | 23.11 | 23.17 | 20.56 | 20.50 | 20.39 |
| | 64QAM | 1 | 0 | 24.16 | 24.19 | 24.18 | 21.65 | 21.60 | 21.45 | 23.50 | 23.42 | 23.30 | **20.28** | 20.16 | 19.92 |
| | | 1 | 12 | 24.21 | 24.24 | **24.26** | 21.65 | 21.59 | 21.49 | 23.49 | 23.39 | 23.29 | 20.25 | 20.11 | 19.94 |
| | | 1 | 24 | 24.22 | 24.23 | 24.17 | **21.67** | 21.61 | 21.50 | **23.51** | 23.41 | 23.28 | 20.27 | 20.12 | 19.95 |
| | | 12 | 0 | 22.91 | 22.90 | 22.85 | 20.44 | 20.22 | 20.21 | 21.94 | 23.44 | 23.28 | 19.02 | 20.15 | 19.93 |
| | | 12 | 6 | 23.01 | 23.00 | 22.92 | 20.43 | 20.30 | 20.29 | 22.07 | 23.44 | 23.26 | 19.02 | 20.18 | 19.93 |
| | | 12 | 11 | 23.01 | 22.98 | 22.89 | 20.42 | 20.30 | 20.27 | 22.04 | 23.42 | 23.33 | 18.98 | 20.14 | 19.92 |
| | | 25 | 0 | 22.95 | 22.98 | 22.96 | 20.38 | 20.31 | 20.23 | 22.13 | 23.43 | 23.34 | 19.00 | 20.11 | 19.98 |
| | 256QAM | 1 | 0 | 20.95 | 20.99 | 21.00 | 18.45 | 18.37 | 18.27 | 20.15 | 20.23 | 20.14 | **17.16** | 16.99 | 16.92 |
| | | 1 | 12 | 21.03 | 21.06 | **21.08** | 18.45 | 18.42 | 18.23 | 20.24 | 20.23 | 20.23 | 17.14 | 16.94 | 16.99 |
| | | 1 | 24 | 20.99 | 21.04 | 21.02 | **18.49** | 18.47 | 18.36 | **20.27** | 20.25 | 20.19 | 17.13 | 16.95 | 17.08 |
| | | 12 | 0 | 20.87 | 20.89 | 20.84 | 18.37 | 18.21 | 18.14 | 20.07 | 20.07 | 20.07 | 17.02 | 16.92 | 16.74 |
| | | 12 | 6 | 20.94 | 20.97 | 20.92 | 18.39 | 18.31 | 18.21 | 20.13 | 20.09 | 20.16 | 17.00 | 16.92 | 16.78 |
| | | 12 | 11 | 20.93 | 20.96 | 20.91 | 18.37 | 18.29 | 18.19 | 20.12 | 20.14 | 20.13 | 16.98 | 16.88 | 16.83 |
| | | 25 | 0 | 20.93 | 20.96 | 20.91 | 18.36 | 18.29 | 18.20 | 20.12 | 20.07 | 20.15 | 16.99 | 16.89 | 16.76 |

## OUTPUT POWER FOR LTE BAND 25 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 26090 | 26365 | 26640 | 26090 | 26365 | 26640 | 26090 | 26365 | 26640 | 26090 | 26365 | 26640 |
| | | | | 1855.0 | 1882.5 | 1910.0 | 1855.0 | 1882.5 | 1910.0 | 1855.0 | 1882.5 | 1910.0 | 1855.0 | 1882.5 | 1910.0 |
| 10.0 | QPSK | 1 | 0 | 25.64 | 25.63 | 25.67 | 23.36 | 23.26 | 23.22 | 25.08 | 25.16 | 25.16 | 22.59 | 22.54 | 22.43 |
| | | 1 | 24 | 25.69 | **25.70** | 25.68 | **23.40** | 23.33 | 23.25 | 25.11 | **25.20** | 25.18 | **22.60** | 22.54 | 22.45 |
| | | 1 | 49 | 25.66 | 25.69 | 25.67 | 23.31 | 23.30 | 23.21 | 25.06 | 25.19 | 25.16 | 22.52 | 22.50 | 22.46 |
| | | 25 | 0 | 24.99 | 24.99 | 25.00 | 22.44 | 22.29 | 22.23 | 24.10 | 24.16 | 24.16 | 21.65 | 21.63 | 21.43 |
| | | 25 | 12 | 25.07 | 25.10 | 24.99 | 22.44 | 22.38 | 22.23 | 24.18 | 24.17 | 24.24 | 21.66 | 21.62 | 21.55 |
| | | 25 | 24 | 25.05 | 25.09 | 25.05 | 22.40 | 22.38 | 22.29 | 24.16 | 24.25 | 24.22 | 21.56 | 21.59 | 21.52 |
| | | 50 | 0 | 25.04 | 25.09 | 24.98 | 22.43 | 22.38 | 22.23 | 24.17 | 24.17 | 24.22 | 21.58 | 21.59 | 21.52 |
| | 16QAM | 1 | 0 | 25.29 | **25.46** | 25.45 | 22.72 | 22.78 | 22.68 | 24.40 | 24.57 | 24.47 | **22.03** | 21.98 | 21.78 |
| | | 1 | 24 | 25.30 | 25.43 | 25.33 | 22.69 | 22.66 | 22.64 | 24.43 | 24.51 | 24.49 | 21.86 | 21.88 | 21.80 |
| | | 1 | 49 | 25.29 | 25.42 | 25.44 | 22.65 | **22.79** | 22.66 | 24.35 | **24.64** | 24.51 | 21.87 | 21.99 | 21.86 |
| | | 25 | 0 | 23.98 | 24.08 | 24.00 | 21.48 | 21.32 | 21.29 | 23.16 | 23.18 | 23.15 | 20.67 | 20.63 | 20.47 |
| | | 25 | 12 | 24.08 | 24.17 | 24.01 | 21.48 | 21.41 | 21.31 | 23.22 | 23.21 | 23.25 | 20.66 | 20.62 | 20.57 |
| | | 25 | 24 | 24.05 | 24.16 | 24.08 | 21.44 | 21.41 | 21.34 | 23.23 | 23.28 | 23.23 | 20.60 | 20.61 | 20.57 |
| | | 50 | 0 | 24.06 | 24.10 | 23.97 | 21.42 | 21.40 | 21.26 | 23.18 | 23.17 | 23.25 | 20.57 | 20.60 | 20.53 |
| | 64QAM | 1 | 0 | 24.26 | 24.34 | 24.33 | 21.70 | 21.64 | 21.50 | 23.38 | 23.36 | 23.37 | **20.23** | 20.20 | 19.91 |
| | | 1 | 24 | 24.28 | **24.38** | 24.30 | 21.61 | **21.72** | 21.48 | **23.41** | 23.37 | 23.36 | 20.20 | 20.19 | 20.01 |
| | | 1 | 49 | 24.22 | 24.34 | 24.29 | 21.62 | 21.66 | 21.46 | 23.33 | 23.39 | 23.36 | 20.14 | 20.16 | 19.95 |
| | | 25 | 0 | 22.99 | 23.04 | 22.99 | 20.45 | 20.32 | 20.25 | 22.11 | 23.37 | 23.40 | 19.08 | 20.22 | 20.01 |
| | | 25 | 12 | 23.07 | 23.14 | 23.01 | 20.45 | 20.44 | 20.26 | 22.23 | 23.37 | **23.41** | 19.09 | 20.20 | 19.98 |
| | | 25 | 24 | 23.07 | 23.12 | 23.04 | 20.41 | 20.40 | 20.31 | 22.17 | 23.38 | 23.38 | 18.99 | 20.19 | 19.99 |
| | | 50 | 0 | 23.06 | 23.14 | 22.99 | 20.43 | 20.42 | 20.25 | 22.16 | 23.38 | 23.38 | 18.99 | 20.16 | 19.97 |
| | 256QAM | 1 | 0 | 21.07 | 21.03 | 21.11 | 18.39 | 18.39 | 18.38 | 20.14 | 20.16 | 20.22 | **17.18** | 17.06 | 16.93 |
| | | 1 | 24 | 21.17 | 21.13 | **21.20** | 18.44 | **18.50** | 18.46 | 20.22 | **20.35** | 20.33 | 17.17 | 17.13 | 17.07 |
| | | 1 | 49 | 21.10 | 21.07 | 21.17 | 18.42 | 18.47 | 18.41 | 20.16 | 20.26 | 20.27 | 17.07 | 16.98 | 17.01 |
| | | 25 | 0 | 20.94 | 21.01 | 20.96 | 18.43 | 18.28 | 18.26 | 20.11 | 20.19 | 20.15 | 17.08 | 16.98 | 16.82 |
| | | 25 | 12 | 21.04 | 21.10 | 20.97 | 18.43 | 18.39 | 18.26 | 20.18 | 20.18 | 20.21 | 17.07 | 17.00 | 16.91 |
| | | 25 | 24 | 21.01 | 21.08 | 21.02 | 18.41 | 18.40 | 18.30 | 20.16 | 20.26 | 20.19 | 16.97 | 16.97 | 16.90 |
| | | 50 | 0 | 21.02 | 21.09 | 20.95 | 18.43 | 18.38 | 18.24 | 20.18 | 20.15 | 20.21 | 16.97 | 16.97 | 16.89 |

## OUTPUT POWER FOR LTE BAND 25 (15.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 26115 | 26365 | 26615 | 26115 | 26365 | 26615 | 26115 | 26365 | 26615 | 26115 | 26365 | 26615 |
| | | | | 1857.5 | 1882.5 | 1907.5 | 1857.5 | 1882.5 | 1907.5 | 1857.5 | 1882.5 | 1907.5 | 1857.5 | 1882.5 | 1907.5 |
| 15.0 | QPSK | 1 | 0 | 25.67 | 25.64 | 25.69 | **23.40** | 23.25 | 23.27 | 25.15 | 25.15 | 25.14 | **22.60** | 22.54 | 22.44 |
| | | 1 | 37 | 25.65 | **25.70** | 25.60 | 23.33 | 23.29 | 23.27 | 25.10 | **25.20** | 25.14 | 22.54 | 22.49 | 22.46 |
| | | 1 | 74 | 25.62 | 25.66 | 25.60 | 23.30 | 23.26 | 23.17 | 25.07 | 25.11 | 25.07 | 22.53 | 22.40 | 22.44 |
| | | 36 | 0 | 24.94 | 24.99 | 24.98 | 22.34 | 22.27 | 22.26 | 24.09 | 24.16 | 24.13 | 21.62 | 21.55 | 21.42 |
| | | 36 | 16 | 25.04 | 25.02 | 24.99 | 22.42 | 22.30 | 22.24 | 24.18 | 24.18 | 24.21 | 21.52 | 21.59 | 21.43 |
| | | 36 | 35 | 25.00 | 25.08 | 25.04 | 22.39 | 22.39 | 22.31 | 24.15 | 24.25 | 24.20 | 21.53 | 21.55 | 21.51 |
| | | 75 | 0 | 25.00 | 24.99 | 24.99 | 22.37 | 22.34 | 22.24 | 24.13 | 24.12 | 24.23 | 21.49 | 21.55 | 21.44 |
| | 16QAM | 1 | 0 | 25.22 | 25.30 | 25.27 | 22.55 | **22.62** | 22.57 | 24.39 | 24.40 | 24.43 | **21.86** | 21.85 | 21.73 |
| | | 1 | 37 | 25.20 | **25.43** | 25.23 | 22.59 | 22.59 | 22.54 | 24.48 | **24.50** | 24.44 | 21.82 | 21.82 | 21.85 |
| | | 1 | 74 | 25.26 | 25.22 | 25.15 | 22.53 | 22.58 | 22.39 | 24.45 | 24.36 | 24.37 | 21.73 | 21.70 | 21.85 |
| | | 36 | 0 | 23.97 | 24.02 | 24.00 | 21.38 | 21.29 | 21.27 | 23.11 | 23.18 | 23.17 | 20.64 | 20.61 | 20.47 |
| | | 36 | 16 | 24.07 | 24.04 | 24.01 | 21.47 | 21.34 | 21.29 | 23.20 | 23.20 | 23.24 | 20.56 | 20.61 | 20.47 |
| | | 36 | 35 | 24.04 | 24.09 | 24.06 | 21.42 | 21.43 | 21.34 | 23.19 | 23.28 | 23.22 | 20.54 | 20.58 | 20.55 |
| | | 75 | 0 | 24.04 | 24.00 | 23.98 | 21.40 | 21.38 | 21.28 | 23.16 | 23.16 | 23.23 | 20.53 | 20.56 | 20.46 |
| | 64QAM | 1 | 0 | 24.29 | 24.24 | **24.36** | 21.59 | 21.60 | 21.63 | 23.38 | 23.32 | 23.41 | **20.23** | 20.18 | 20.01 |
| | | 1 | 37 | 24.28 | 24.28 | 24.35 | 21.62 | **21.69** | 21.55 | 23.39 | 23.40 | 23.36 | 20.21 | 20.10 | 20.02 |
| | | 1 | 74 | 24.28 | 24.30 | 24.25 | 21.52 | 21.64 | 21.50 | 23.36 | 23.40 | 23.40 | 20.10 | 20.20 | 19.99 |
| | | 36 | 0 | 22.97 | 23.00 | 22.99 | 20.34 | 20.31 | 20.28 | 22.08 | 23.35 | **23.49** | 19.03 | 20.21 | 20.02 |
| | | 36 | 16 | 23.05 | 23.00 | 23.01 | 20.43 | 20.34 | 20.26 | 22.15 | 23.37 | 23.46 | 18.96 | 20.16 | 20.00 |
| | | 36 | 35 | 23.06 | 23.10 | 23.06 | 20.39 | 20.41 | 20.32 | 22.14 | 23.36 | 23.41 | 18.95 | 20.20 | 20.01 |
| | | 75 | 0 | 23.03 | 22.99 | 23.03 | 20.39 | 20.41 | 20.24 | 22.15 | 23.35 | 23.41 | 18.98 | 20.17 | 20.05 |
| | 256QAM | 1 | 0 | 21.04 | 21.04 | 21.07 | **18.56** | 18.37 | 18.43 | 20.27 | 20.27 | 20.22 | **17.26** | 17.07 | 17.01 |
| | | 1 | 37 | 21.09 | 21.09 | 21.13 | 18.46 | 18.44 | 18.46 | 20.22 | 20.34 | 20.26 | 17.21 | 17.08 | 17.11 |
| | | 1 | 74 | **21.16** | 21.01 | 21.10 | 18.36 | 18.47 | 18.36 | 20.22 | 20.35 | **20.38** | 17.12 | 17.01 | 17.10 |
| | | 36 | 0 | 20.94 | 20.99 | 20.98 | 18.35 | 18.30 | 18.27 | 20.10 | 20.15 | 20.13 | 17.03 | 17.01 | 16.84 |
| | | 36 | 16 | 21.04 | 20.99 | 20.98 | 18.42 | 18.34 | 18.23 | 20.21 | 20.16 | 20.22 | 16.95 | 17.02 | 16.85 |
| | | 36 | 35 | 21.02 | 21.07 | 21.06 | 18.38 | 18.42 | 18.30 | 20.16 | 20.24 | 20.21 | 16.94 | 16.97 | 16.92 |
| | | 75 | 0 | 21.02 | 20.97 | 20.95 | 18.39 | 18.39 | 18.26 | 20.18 | 20.13 | 20.23 | 16.94 | 16.97 | 16.83 |

## OUTPUT POWER FOR LTE BAND 25 (20.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 26140 | 26365 | 26590 | 26140 | 26365 | 26590 | 26140 | 26365 | 26590 | 26140 | 26365 | 26590 |
| | | | | 1860.0 | 1882.5 | 1905.0 | 1860.0 | 1882.5 | 1905.0 | 1860.0 | 1882.5 | 1905.0 | 1860.0 | 1882.5 | 1905.0 |
| 20.0 | QPSK | 1 | 0 | 25.51 | 25.55 | **25.70** | 23.39 | 23.34 | 23.36 | 24.99 | 25.06 | **25.20** | **22.60** | 22.57 | 22.42 |
| | | 1 | 49 | 25.55 | 25.60 | 25.65 | 23.36 | 23.38 | 23.33 | 25.02 | 25.08 | 25.05 | 22.52 | 22.55 | 22.47 |
| | | 1 | 99 | 25.53 | 25.55 | 25.57 | 23.29 | **23.40** | 23.24 | 24.94 | 25.07 | 25.03 | 22.53 | 22.44 | 22.44 |
| | | 50 | 0 | 24.87 | 24.90 | 24.93 | 22.49 | 22.38 | 22.35 | 24.02 | 24.07 | 24.11 | 21.63 | 21.63 | 21.46 |
| | | 50 | 24 | 24.97 | 25.00 | 24.92 | 22.48 | 22.49 | 22.35 | 24.11 | 24.11 | 24.15 | 21.64 | 21.63 | 21.58 |
| | | 50 | 49 | 24.93 | 24.97 | 24.96 | 22.42 | 22.49 | 22.37 | 24.06 | 24.16 | 24.11 | 21.61 | 21.58 | 21.54 |
| | | 100 | 0 | 24.92 | 24.89 | 24.92 | 22.46 | 22.46 | 22.35 | 24.09 | 24.16 | 24.16 | 21.62 | 21.58 | 21.57 |
| | 16QAM | 1 | 0 | 25.13 | 25.14 | 25.33 | 22.68 | 22.59 | 22.65 | 24.25 | 24.33 | 24.45 | 21.89 | 21.98 | 21.82 |
| | | 1 | 49 | 25.30 | 25.21 | **25.54** | 22.74 | **22.78** | 22.70 | 24.60 | 24.49 | **24.75** | 22.09 | **22.17** | 22.10 |
| | | 1 | 99 | 25.06 | 25.15 | 25.23 | 22.51 | 22.63 | 22.50 | 24.30 | 24.35 | 24.45 | 21.75 | 21.88 | 21.81 |
| | | 50 | 0 | 23.88 | 23.93 | 23.97 | 21.52 | 21.41 | 21.39 | 23.03 | 23.10 | 23.10 | 20.66 | 20.64 | 20.48 |
| | | 50 | 24 | 23.97 | 24.02 | 23.96 | 21.49 | 21.52 | 21.37 | 23.11 | 23.12 | 23.16 | 20.65 | 20.64 | 20.57 |
| | | 50 | 49 | 23.93 | 23.99 | 23.98 | 21.45 | 21.51 | 21.41 | 23.05 | 23.18 | 23.14 | 20.63 | 20.59 | 20.55 |
| | | 100 | 0 | 23.94 | 23.89 | 23.93 | 21.47 | 21.47 | 21.37 | 23.07 | 23.15 | 23.19 | 20.63 | 20.60 | 20.56 |
| | 64QAM | 1 | 0 | 24.12 | 24.07 | 24.29 | 21.75 | 21.61 | 21.63 | 23.22 | 23.21 | 23.27 | 20.24 | 20.12 | 19.98 |
| | | 1 | 49 | 24.36 | 24.21 | **24.45** | **21.87** | 21.74 | 21.77 | **23.32** | 23.25 | 23.28 | **20.41** | 20.15 | 20.00 |
| | | 1 | 99 | 24.18 | 24.12 | 24.26 | 21.59 | 21.60 | 21.44 | 23.18 | 23.24 | 23.25 | 20.12 | 20.14 | 19.99 |
| | | 50 | 0 | 22.87 | 22.90 | 22.93 | 20.51 | 20.39 | 20.37 | 22.01 | 23.24 | 23.24 | 19.04 | 20.19 | 19.98 |
| | | 50 | 24 | 22.95 | 22.99 | 22.92 | 20.50 | 20.48 | 20.36 | 22.08 | 23.25 | 23.25 | 19.05 | 20.13 | 19.99 |
| | | 50 | 49 | 22.92 | 22.97 | 22.95 | 20.42 | 20.47 | 20.38 | 22.03 | 23.20 | 23.28 | 19.01 | 20.15 | 19.99 |
| | | 100 | 0 | 22.91 | 22.88 | 22.91 | 20.48 | 20.44 | 20.35 | 22.05 | 23.19 | 23.30 | 19.03 | 20.16 | 19.99 |
| | 256QAM | 1 | 0 | 20.96 | 21.05 | **21.13** | 18.64 | 18.53 | 18.56 | 20.18 | 20.18 | 20.25 | 17.18 | **17.20** | 16.98 |
| | | 1 | 49 | 20.97 | 21.08 | 21.03 | 18.60 | 18.62 | 18.55 | 20.22 | 20.27 | 20.21 | 17.07 | 17.17 | 16.99 |
| | | 1 | 99 | 20.93 | 21.07 | 20.98 | 18.54 | **18.65** | 18.48 | 20.14 | 20.24 | **20.28** | 17.18 | 17.15 | 16.99 |
| | | 50 | 0 | 20.84 | 20.88 | 20.89 | 18.52 | 18.37 | 18.36 | 20.00 | 20.07 | 20.08 | 17.02 | 17.02 | 16.84 |
| | | 50 | 24 | 20.93 | 20.96 | 20.89 | 18.51 | 18.49 | 18.33 | 20.10 | 20.09 | 20.14 | 17.04 | 17.03 | 16.94 |
| | | 50 | 49 | 20.89 | 20.92 | 20.90 | 18.43 | 18.48 | 18.37 | 20.05 | 20.13 | 20.10 | 17.02 | 16.98 | 16.91 |
| | | 100 | 0 | 20.91 | 20.88 | 20.88 | 18.46 | 18.46 | 18.34 | 20.07 | 20.14 | 20.14 | 17.02 | 17.00 | 16.93 |

## 5G NR n25

**Test Engineer ID:** 27957 **Test Date:** 6/1/2022

## OUTPUT POWER FOR 5G NR n25 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 370500 | 376500 | 382500 | 370500 | 376500 | 382500 | 370500 | 376500 | 382500 | 370500 | 376500 | 382500 |
| | | | | 1852.5 | 1882.5 | 1912.5 | 1852.5 | 1882.5 | 1912.5 | 1852.5 | 1882.5 | 1912.5 | 1852.5 | 1882.5 | 1912.5 |
| 5.0 | BPSK | 1 | 0 | 25.69 | 25.46 | 25.41 | 23.22 | 23.16 | 23.17 | 25.01 | 24.91 | 24.92 | 22.39 | 22.30 | 22.33 |
| | | 1 | 1 | **25.70** | 25.42 | 25.39 | 23.37 | 23.36 | **23.40** | 25.18 | 25.13 | 25.12 | 22.50 | 22.53 | 22.49 |
| | | 1 | 23 | 25.68 | 25.39 | 25.36 | 23.32 | 23.34 | 23.32 | **25.20** | **25.20** | 25.14 | 22.52 | 22.53 | 22.52 |
| | | 1 | 24 | 25.64 | 25.51 | 25.37 | 23.15 | 23.12 | 23.07 | 24.95 | 24.94 | 24.96 | 22.24 | 22.32 | 22.32 |
| | | 12 | 6 | 25.51 | 25.38 | 25.41 | 23.30 | 23.33 | 23.34 | 25.16 | 25.08 | 25.18 | 22.50 | 22.46 | **22.57** |
| | | 25 | 0 | 25.48 | 25.33 | 25.36 | 23.08 | 23.07 | 23.10 | 24.86 | 24.85 | 24.90 | 22.23 | 22.23 | 22.31 |
| | QPSK | 1 | 0 | 25.62 | 25.45 | 25.42 | 22.70 | 22.69 | 22.62 | 23.80 | 24.24 | 24.47 | 21.91 | 21.83 | 21.83 |
| | | 1 | 1 | 25.68 | 25.49 | 25.42 | 23.39 | **23.40** | 23.32 | 24.82 | 25.18 | 25.19 | 22.59 | 22.55 | **22.60** |
| | | 1 | 23 | 25.63 | 25.47 | 25.41 | **23.40** | 23.35 | 23.36 | 24.82 | 24.87 | **25.20** | **22.60** | **22.60** | 22.57 |
| | | 1 | 24 | 25.59 | **25.70** | **25.70** | 22.68 | 22.67 | 22.58 | 23.84 | 23.87 | 24.45 | 21.89 | 21.88 | 21.89 |
| | | 12 | 6 | 25.51 | 25.39 | 25.41 | 23.34 | 23.31 | 23.34 | 24.81 | 24.95 | 25.15 | 22.50 | 22.48 | 22.57 |
| | | 25 | 0 | 25.56 | 25.42 | 25.45 | 22.63 | 22.61 | 22.64 | 23.67 | 23.89 | 24.47 | 21.82 | 21.82 | 21.90 |
| | 16QAM | 1 | 0 | 24.82 | 25.18 | 25.17 | 21.89 | 21.86 | 21.86 | 22.99 | 23.51 | 23.62 | 21.03 | 21.12 | 21.06 |
| | | 1 | 1 | 25.47 | **25.69** | 25.68 | 22.89 | 22.90 | 22.80 | 24.03 | 24.44 | 24.69 | 22.04 | 22.03 | **22.11** |
| | | 1 | 23 | 25.51 | 25.65 | **25.69** | 22.92 | **22.93** | 22.89 | 24.03 | 24.09 | **24.76** | 22.06 | 22.09 | 22.06 |
| | | 1 | 24 | 25.00 | 25.07 | 25.16 | 21.84 | 21.89 | 21.81 | 23.04 | 23.10 | 23.63 | 21.12 | 21.03 | 20.99 |
| | | 12 | 6 | 25.59 | 25.40 | 25.48 | 22.53 | 22.57 | 22.60 | 24.01 | 24.07 | 24.43 | 21.64 | 21.73 | 21.86 |
| | | 25 | 0 | 25.08 | 24.89 | 25.03 | 21.59 | 21.68 | 21.63 | 22.94 | 23.04 | 23.44 | 20.72 | 20.80 | 20.81 |
| | 64QAM | 1 | 0 | 24.78 | 24.51 | 24.55 | 21.24 | 21.31 | 21.33 | 22.73 | 22.99 | 23.09 | 20.47 | 20.43 | 20.44 |
| | | 1 | 1 | **24.85** | 24.59 | 24.62 | 21.31 | 21.39 | 21.30 | 22.75 | 23.05 | **23.24** | 20.49 | 20.50 | 20.48 |
| | | 1 | 23 | 24.78 | 24.52 | 24.59 | 21.31 | 21.18 | **21.40** | 22.71 | 22.73 | 23.13 | **20.53** | 20.42 | 20.50 |
| | | 1 | 24 | 24.74 | 24.63 | 24.56 | 21.26 | 21.20 | 21.32 | 22.79 | 22.76 | 23.07 | 20.42 | 20.46 | 20.51 |
| | | 12 | 6 | 24.53 | 24.35 | 24.45 | 21.12 | 20.93 | 21.22 | 22.41 | 22.77 | 22.98 | 20.31 | 20.32 | 20.38 |
| | | 25 | 0 | 24.54 | 24.39 | 24.42 | 21.14 | 21.02 | 21.16 | 22.49 | 22.63 | 22.98 | 20.21 | 20.28 | 20.31 |
| | 256QAM | 1 | 0 | 22.60 | 22.34 | 22.45 | 19.15 | 19.04 | 19.24 | 20.92 | 20.81 | 21.01 | 18.23 | 18.27 | 18.29 |
| | | 1 | 1 | 22.60 | 22.39 | 22.50 | 19.20 | 19.03 | **19.27** | 20.93 | 20.83 | **21.10** | 18.33 | 18.22 | 18.25 |
| | | 1 | 23 | **22.62** | 22.47 | 22.40 | 19.09 | 18.95 | **19.27** | 20.96 | 20.92 | 21.05 | 18.26 | 18.25 | **18.37** |
| | | 1 | 24 | 22.59 | 22.45 | 22.40 | 19.08 | 19.02 | 19.24 | 20.89 | 20.89 | 21.00 | 18.17 | 18.25 | 18.29 |
| | | 12 | 6 | 22.54 | 22.37 | 22.42 | 19.07 | 19.01 | 19.17 | 21.00 | 20.84 | **21.10** | 18.24 | 18.28 | 18.26 |
| | | 25 | 0 | 22.58 | 22.35 | 22.41 | 19.06 | 19.01 | 19.21 | 20.93 | 20.78 | 20.93 | 18.27 | 18.23 | 18.25 |

## OUTPUT POWER FOR 5G NR n25 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 371000 | 376500 | 382000 | 371000 | 376500 | 382000 | 371000 | 376500 | 382000 | 371000 | 376500 | 382000 |
| | | | | 1855.0 | 1882.5 | 1910.0 | 1855.0 | 1882.5 | 1910.0 | 1855.0 | 1882.5 | 1910.0 | 1855.0 | 1882.5 | 1910.0 |
| 10.0 | BPSK | 1 | 0 | 25.49 | 25.41 | 25.50 | 23.09 | 23.13 | 23.06 | 24.97 | 24.90 | 24.87 | 22.31 | 22.29 | 22.41 |
| | | 1 | 1 | 25.51 | 25.38 | 25.41 | 23.38 | 23.30 | 23.24 | **25.20** | 25.17 | 25.07 | 22.53 | 22.50 | 22.58 |
| | | 1 | 50 | 25.43 | **25.70** | 25.43 | 23.27 | 23.33 | **23.40** | 25.13 | **25.20** | 25.06 | 22.49 | 22.46 | **22.60** |
| | | 1 | 51 | 25.46 | 25.48 | 25.48 | 23.07 | 23.12 | 23.04 | 24.97 | 24.98 | 24.86 | 22.32 | 22.29 | 22.37 |
| | | 25 | 12 | 25.47 | 25.39 | 25.43 | 23.34 | 23.32 | 23.28 | 25.19 | 25.14 | 25.08 | 22.55 | 22.54 | 22.55 |
| | | 50 | 0 | **25.70** | 25.43 | 25.48 | 21.48 | 23.15 | 21.01 | 24.29 | 24.56 | 24.90 | 22.39 | 22.33 | 22.35 |
| | QPSK | 1 | 0 | 25.35 | 25.44 | 25.39 | 19.85 | 21.75 | 19.54 | 22.83 | 23.45 | 24.33 | 21.18 | 21.82 | 21.66 |
| | | 1 | 1 | 25.53 | 25.47 | **25.70** | 21.04 | 22.84 | 20.77 | 23.93 | 24.51 | 25.16 | 22.25 | **22.60** | 22.55 |
| | | 1 | 50 | 25.51 | 25.52 | 25.46 | 21.21 | 22.67 | 20.11 | 24.26 | 23.96 | **25.20** | 22.52 | 22.39 | 22.29 |
| | | 1 | 51 | 25.47 | 25.23 | 25.09 | 20.13 | 21.57 | 18.95 | 23.15 | 22.85 | 24.32 | 21.47 | 21.31 | 21.20 |
| | | 25 | 12 | 25.53 | 25.44 | 25.50 | **23.40** | **23.40** | 23.28 | 24.91 | 25.05 | 25.14 | **22.60** | 22.56 | 22.55 |
| | | 50 | 0 | 25.52 | 25.48 | 25.51 | 22.68 | 22.66 | 22.57 | 23.67 | 23.86 | 24.28 | 21.86 | 21.84 | 21.83 |
| | 16QAM | 1 | 0 | 25.10 | 25.15 | 25.27 | 21.98 | 21.86 | 21.76 | 22.89 | 23.67 | 23.44 | 21.16 | 21.09 | 21.02 |
| | | 1 | 1 | 25.30 | 25.62 | 25.65 | **22.95** | 22.84 | 22.77 | 23.95 | **24.67** | 24.46 | 22.03 | 22.00 | **22.11** |
| | | 1 | 50 | 25.67 | 25.50 | **25.69** | 22.80 | 22.89 | 22.80 | 24.48 | 24.09 | 24.62 | 22.05 | 21.97 | 22.05 |
| | | 1 | 51 | 25.20 | 25.18 | 25.21 | 21.87 | 21.80 | 21.74 | 23.41 | 23.09 | 23.66 | 21.08 | 20.89 | 21.03 |
| | | 25 | 12 | 25.52 | 25.49 | 25.47 | 22.73 | 22.67 | 22.62 | 24.01 | 24.18 | 24.25 | 21.85 | 21.80 | 21.88 |
| | | 50 | 0 | 24.97 | 24.92 | 24.97 | 21.66 | 21.64 | 21.59 | 22.95 | 23.21 | 23.46 | 20.87 | 20.85 | 20.91 |
| | 64QAM | 1 | 0 | 24.66 | 24.57 | 24.52 | 21.23 | 21.24 | 21.08 | 22.64 | **23.10** | 23.01 | 20.48 | 20.35 | 20.45 |
| | | 1 | 1 | 24.65 | 24.56 | **24.68** | 21.26 | 21.22 | 21.23 | 22.80 | 23.05 | 22.96 | 20.50 | 20.44 | 20.49 |
| | | 1 | 50 | 24.60 | 24.62 | 24.55 | 21.30 | 21.26 | **21.39** | 23.08 | 22.82 | 22.97 | 20.50 | 20.45 | 20.37 |
| | | 1 | 51 | 24.59 | 24.54 | 24.46 | 21.13 | 21.21 | 21.22 | 22.93 | 22.75 | 22.95 | **20.55** | 20.41 | 20.51 |
| | | 25 | 12 | 24.51 | 24.41 | 24.55 | 21.19 | 21.11 | 21.07 | 22.56 | 22.78 | 22.82 | 20.36 | 20.37 | 20.38 |
| | | 50 | 0 | 24.48 | 24.41 | 24.45 | 21.13 | 21.20 | 21.10 | 22.45 | 22.71 | 22.88 | 20.33 | 20.31 | 20.36 |
| | 256QAM | 1 | 0 | 22.36 | 22.36 | 22.40 | 19.08 | 19.05 | 18.92 | 20.88 | 20.94 | 20.82 | 18.27 | 18.24 | 18.29 |
| | | 1 | 1 | 22.38 | 22.34 | 22.43 | 19.01 | 19.03 | 18.97 | 20.93 | 20.87 | 20.90 | 18.31 | 18.18 | 18.29 |
| | | 1 | 50 | 22.46 | **22.54** | 22.47 | 18.99 | **19.12** | 19.07 | 20.80 | 20.87 | 20.80 | 18.31 | 18.12 | 18.24 |
| | | 1 | 51 | 22.31 | 22.40 | 22.36 | 19.02 | 19.00 | 18.91 | 20.87 | 20.86 | 20.85 | 18.29 | 18.19 | 18.25 |
| | | 25 | 12 | 22.43 | 22.43 | 22.45 | 19.11 | 19.08 | 18.96 | **20.97** | 20.89 | 20.81 | 18.33 | 18.25 | 18.26 |
| | | 50 | 0 | 22.44 | 22.40 | 22.44 | 19.10 | 19.11 | 18.94 | 20.96 | 20.96 | 20.84 | **18.40** | 18.23 | 18.35 |

## OUTPUT POWER FOR 5G NR n25 (15.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 371500 | 376500 | 381500 | 371500 | 376500 | 381500 | 371500 | 376500 | 381500 | 371500 | 376500 | 381500 |
| | | | | 1857.5 | 1882.5 | 1907.5 | 1857.5 | 1882.5 | 1907.5 | 1857.5 | 1882.5 | 1907.5 | 1857.5 | 1882.5 | 1907.5 |
| 15.0 | BPSK | 1 | 0 | 25.46 | 25.43 | 25.40 | 23.16 | 23.05 | 23.21 | 24.98 | 24.93 | 25.00 | 22.33 | 22.31 | 22.17 |
| | | 1 | 1 | 25.50 | 25.44 | 25.39 | **23.40** | 23.34 | 23.34 | **25.20** | 25.15 | 25.12 | 22.47 | **22.59** | 22.46 |
| | | 1 | 77 | **25.70** | 25.47 | 25.46 | 23.32 | **23.40** | **23.40** | 25.13 | **25.20** | **25.20** | 22.48 | 22.56 | 22.51 |
| | | 1 | 78 | 25.42 | **25.70** | 25.51 | 23.15 | 23.20 | 23.23 | 24.85 | 24.96 | 24.97 | 22.29 | 22.35 | 22.32 |
| | | 36 | 18 | 25.27 | 25.29 | 25.32 | 23.26 | 23.17 | 23.28 | 25.03 | 24.99 | 25.10 | 22.43 | 22.47 | 22.36 |
| | | 75 | 0 | 25.32 | 25.32 | 25.36 | 21.12 | 23.06 | 23.17 | 24.30 | 24.86 | 24.93 | 22.28 | 22.31 | 22.25 |
| | QPSK | 1 | 0 | 25.43 | 25.47 | 25.44 | 19.55 | 21.66 | 19.39 | 22.47 | 24.52 | 24.43 | 21.12 | 21.94 | 21.89 |
| | | 1 | 1 | 25.47 | 25.45 | 25.42 | 20.76 | 22.72 | 20.56 | 23.62 | **25.19** | 25.13 | 22.14 | 22.59 | **22.60** |
| | | 1 | 77 | 25.40 | 25.51 | **25.70** | 21.06 | 22.72 | 20.18 | 24.33 | 25.15 | **25.19** | **22.60** | **22.60** | 22.53 |
| | | 1 | 78 | 25.41 | 25.50 | 25.50 | 19.94 | 21.64 | 19.01 | 23.24 | 24.12 | 24.47 | 21.77 | 21.90 | 21.41 |
| | | 36 | 18 | 25.36 | 25.35 | 25.39 | 23.32 | 23.24 | **23.35** | 24.97 | 24.92 | 25.03 | 22.50 | 22.51 | 22.47 |
| | | 75 | 0 | 25.35 | 25.34 | 25.41 | 22.67 | 22.53 | 22.65 | 24.03 | 24.04 | 23.93 | 21.83 | 21.82 | 21.82 |
| | 16QAM | 1 | 0 | 25.00 | 25.23 | 25.23 | 21.89 | 21.87 | 21.96 | 22.91 | 23.80 | 23.69 | 20.97 | 21.11 | 21.05 |
| | | 1 | 1 | 25.55 | 25.68 | 25.56 | **22.95** | 22.80 | 22.89 | 23.97 | 24.64 | 24.56 | 21.96 | 22.16 | 22.01 |
| | | 1 | 77 | 25.60 | 25.66 | **25.69** | 22.88 | 22.87 | 22.84 | **24.74** | 24.39 | 24.30 | 22.16 | 22.17 | **22.18** |
| | | 1 | 78 | 25.03 | 25.21 | 25.03 | 21.90 | 21.97 | 21.87 | 23.71 | 23.35 | 23.34 | 21.03 | 21.14 | 21.20 |
| | | 36 | 18 | 25.43 | 25.34 | 25.36 | 22.60 | 22.58 | 22.63 | 24.10 | 24.10 | 24.34 | 21.74 | 21.83 | 21.76 |
| | | 75 | 0 | 24.86 | 24.84 | 24.87 | 21.69 | 21.52 | 21.66 | 23.29 | 23.22 | 23.36 | 20.83 | 20.86 | 20.76 |
| | 64QAM | 1 | 0 | 24.49 | 24.65 | 24.66 | 21.35 | 21.34 | 21.23 | 22.66 | 23.02 | 22.93 | 20.50 | 20.54 | 20.46 |
| | | 1 | 1 | 24.48 | 24.74 | 24.55 | 21.39 | 21.28 | 21.35 | 22.79 | 23.03 | 22.93 | 20.52 | 20.56 | 20.44 |
| | | 1 | 77 | 24.57 | 24.59 | 24.64 | 21.24 | **21.41** | 21.36 | **23.08** | 22.86 | 22.98 | 20.36 | 20.45 | 20.53 |
| | | 1 | 78 | 24.54 | **24.75** | 24.64 | 21.38 | 21.35 | 21.29 | 22.95 | 22.98 | 23.01 | 20.31 | 20.45 | **20.61** |
| | | 36 | 18 | 24.31 | 24.29 | 24.37 | 21.09 | 20.97 | 21.10 | 22.51 | 22.64 | 22.87 | 20.21 | 20.23 | 20.41 |
| | | 75 | 0 | 24.30 | 24.31 | 24.33 | 21.08 | 21.05 | 21.16 | 22.69 | 22.77 | 22.83 | 20.22 | 20.25 | 20.29 |
| | 256QAM | 1 | 0 | 22.40 | 22.33 | 22.45 | 19.15 | 19.01 | **19.25** | 20.94 | 20.84 | 20.83 | 18.31 | 18.34 | 18.23 |
| | | 1 | 1 | 22.39 | 22.30 | 22.26 | 19.12 | 19.11 | 19.15 | **21.00** | 20.86 | 20.81 | 18.14 | 18.23 | **18.41** |
| | | 1 | 77 | 22.36 | **22.46** | 22.43 | 19.10 | 19.11 | 19.20 | 20.78 | 20.94 | 20.94 | 18.28 | 18.32 | 18.27 |
| | | 1 | 78 | 22.28 | 22.40 | 22.41 | 19.05 | 19.10 | 19.15 | 20.87 | 20.89 | 20.89 | 18.20 | 18.28 | 18.27 |
| | | 36 | 18 | 22.24 | 22.30 | 22.39 | 19.08 | 19.03 | 19.14 | 20.92 | 20.83 | 20.89 | 18.29 | 18.23 | 18.31 |
| | | 75 | 0 | 22.27 | 22.32 | 22.42 | 19.08 | 19.00 | 19.11 | 20.88 | 20.84 | 20.92 | 18.22 | 18.21 | 18.31 |

## OUTPUT POWER FOR 5G NR n25 (20.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 372000 | 376500 | 381000 | 372000 | 376500 | 381000 | 372000 | 376500 | 381000 | 372000 | 376500 | 381000 |
| | | | | 1860.0 | 1882.5 | 1905.0 | 1860.0 | 1882.5 | 1905.0 | 1860.0 | 1882.5 | 1905.0 | 1860.0 | 1882.5 | 1905.0 |
| 20.0 | BPSK | 1 | 0 | 25.68 | 25.26 | 25.32 | 23.24 | 23.08 | 23.18 | 24.94 | 24.95 | 24.90 | 22.38 | 22.31 | 22.26 |
| | | 1 | 1 | **25.70** | 25.27 | 25.28 | **23.40** | 23.26 | **23.40** | **25.20** | 25.13 | 25.10 | **22.60** | 22.50 | 22.51 |
| | | 1 | 104 | 25.66 | 25.32 | 25.39 | 23.33 | **23.40** | 23.37 | 25.07 | **25.20** | 25.15 | 22.56 | 22.50 | 22.59 |
| | | 1 | 105 | 25.66 | 25.34 | **25.70** | 23.12 | 23.23 | 23.17 | 24.84 | 25.03 | 25.00 | 22.39 | 22.32 | 22.51 |
| | | 50 | 25 | 25.64 | 25.20 | 25.29 | 23.34 | 23.29 | 23.34 | 25.11 | 25.09 | 25.11 | **22.60** | 22.47 | 22.50 |
| | | 100 | 0 | 23.72 | 25.27 | 25.30 | 21.13 | 23.06 | 21.00 | 22.40 | 24.94 | 22.47 | 19.91 | 22.30 | 22.34 |
| | QPSK | 1 | 0 | 22.14 | 25.36 | 25.42 | 19.44 | 19.45 | 19.34 | 20.90 | 23.88 | 20.21 | 18.31 | 21.90 | 21.80 |
| | | 1 | 1 | 23.27 | 25.32 | 25.36 | 20.62 | 20.53 | 20.46 | 21.96 | 25.02 | 21.70 | 19.38 | 22.59 | **22.60** |
| | | 1 | 104 | 23.35 | 25.39 | 25.43 | 20.82 | 20.23 | 20.30 | 22.06 | 24.42 | 21.34 | 19.60 | **22.60** | 22.56 |
| | | 1 | 105 | 20.98 | **25.70** | 25.41 | 19.70 | 19.01 | 19.08 | 21.09 | 23.35 | 20.04 | 18.61 | 21.76 | 21.59 |
| | | 50 | 25 | 24.43 | 25.23 | 25.31 | **23.40** | 23.23 | 23.39 | 25.12 | 24.90 | **25.20** | 22.57 | 22.53 | 22.51 |
| | | 100 | 0 | 24.44 | 25.25 | 25.28 | 22.67 | 22.54 | 22.62 | 24.41 | 24.17 | 23.90 | 21.93 | 21.83 | 21.62 |
| | 16QAM | 1 | 0 | 23.89 | 25.07 | 25.00 | 21.97 | 21.74 | 21.98 | 23.07 | 23.71 | 23.29 | 21.10 | 20.99 | 20.93 |
| | | 1 | 1 | 24.67 | 25.51 | 25.55 | **23.10** | 22.84 | 22.78 | 24.08 | **24.72** | 24.48 | 22.05 | 22.06 | 22.08 |
| | | 1 | 104 | 24.68 | 25.55 | **25.56** | 22.82 | 22.90 | 22.31 | 24.64 | 24.41 | 24.14 | **22.13** | 22.09 | 21.92 |
| | | 1 | 105 | 24.10 | 25.14 | 24.72 | 21.95 | 21.78 | 21.27 | 23.59 | 23.43 | 23.06 | 21.10 | 21.05 | 20.95 |
| | | 50 | 25 | 24.40 | 25.20 | 25.26 | 22.65 | 22.47 | 22.58 | 24.48 | 24.27 | 24.54 | 21.94 | 21.84 | 21.87 |
| | | 100 | 0 | 23.95 | 24.77 | 24.85 | 21.70 | 21.55 | 21.63 | 23.47 | 23.47 | 23.57 | 20.98 | 20.84 | 20.83 |
| | 64QAM | 1 | 0 | 23.64 | 24.38 | 24.46 | **21.39** | 21.20 | 21.28 | 22.80 | 23.16 | 23.01 | 20.57 | 20.35 | 20.48 |
| | | 1 | 1 | 23.76 | 24.43 | 24.46 | 21.31 | 21.17 | 21.36 | 22.86 | 22.91 | 23.15 | **20.69** | 20.48 | 20.37 |
| | | 1 | 104 | 23.57 | 24.43 | **24.61** | 21.25 | 21.36 | 21.24 | 23.01 | 23.12 | 23.08 | 20.57 | 20.46 | 20.40 |
| | | 1 | 105 | 23.47 | 24.48 | 24.52 | 21.36 | 21.30 | 21.19 | 23.00 | **23.19** | 22.95 | 20.48 | 20.26 | 20.49 |
| | | 50 | 25 | 23.37 | 24.14 | 24.29 | 21.17 | 21.01 | 21.13 | 22.94 | 22.84 | 22.98 | 20.37 | 20.28 | 20.36 |
| | | 100 | 0 | 23.36 | 24.16 | 24.28 | 21.16 | 21.05 | 21.14 | 22.95 | 22.92 | 23.03 | 20.42 | 20.31 | 20.42 |
| | 256QAM | 1 | 0 | 21.45 | 22.19 | 22.25 | 19.14 | 19.06 | 19.16 | 20.98 | 20.82 | 20.97 | **18.52** | 18.29 | 18.33 |
| | | 1 | 1 | 21.53 | 22.18 | **22.35** | **19.19** | 19.03 | 19.15 | **21.08** | 20.86 | 20.94 | 18.36 | 18.27 | 18.14 |
| | | 1 | 104 | 21.27 | 22.24 | 22.23 | 19.07 | 19.10 | 19.06 | 20.87 | 20.96 | 21.04 | 18.28 | 18.21 | 18.25 |
| | | 1 | 105 | 21.43 | 22.22 | 22.25 | 19.03 | 19.05 | 18.98 | 20.82 | 20.89 | 20.96 | 18.29 | 18.28 | 18.14 |
| | | 50 | 25 | 21.41 | 22.17 | 22.22 | 19.13 | 19.09 | 19.03 | 20.88 | 20.85 | 21.00 | 18.41 | 18.26 | 18.24 |
| | | 100 | 0 | 21.38 | 22.22 | 22.29 | 19.12 | 19.14 | 19.07 | 20.90 | 20.86 | 21.03 | 18.39 | 18.28 | 18.31 |

## OUTPUT POWER FOR 5G NR n25 (25.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 372500 | 376500 | 380500 | 372500 | 376500 | 380500 | 372500 | 376500 | 380500 | 372500 | 376500 | 380500 |
| | | | | 1862.5 | 1882.5 | 1902.5 | 1862.5 | 1882.5 | 1902.5 | 1862.5 | 1882.5 | 1902.5 | 1862.5 | 1882.5 | 1902.5 |
| 25.0 | BPSK | 1 | 0 | 25.30 | 25.27 | 25.39 | 23.18 | 23.07 | 23.09 | 25.04 | 24.89 | 24.99 | 22.44 | 22.31 | 22.35 |
| | | 1 | 1 | 25.36 | 25.34 | 25.40 | **23.35** | 23.26 | 23.34 | **25.20** | 25.13 | 25.13 | **22.60** | 22.47 | 22.58 |
| | | 1 | 132 | 25.26 | 25.35 | 25.44 | 23.32 | 23.29 | 23.30 | 25.17 | **25.20** | **25.20** | 22.59 | 22.46 | **22.60** |
| | | 1 | 131 | 25.29 | 25.40 | **25.70** | 23.08 | 23.13 | 23.09 | 24.91 | 25.02 | 24.99 | 22.32 | 22.33 | 22.39 |
| | | 64 | 32 | 25.27 | 25.26 | 25.33 | 23.33 | 23.24 | 23.29 | 25.17 | 25.06 | 25.07 | 22.56 | 22.46 | 22.56 |
| | | 128 | 0 | 23.36 | 25.26 | 25.34 | 23.07 | 23.04 | 23.14 | 22.47 | 24.91 | 22.39 | 19.95 | 22.33 | 19.74 |
| | QPSK | 1 | 0 | 21.92 | 25.31 | 25.38 | 22.72 | 22.63 | 22.66 | 21.16 | 24.57 | 21.27 | 18.52 | 21.84 | 18.67 |
| | | 1 | 1 | 23.17 | 25.34 | 25.32 | **23.40** | 23.35 | **23.40** | 22.26 | 25.16 | 22.34 | 19.56 | 22.53 | 19.72 |
| | | 1 | 132 | 23.53 | **25.70** | 25.49 | 23.38 | **23.40** | 23.14 | 22.46 | **25.20** | 21.34 | 20.06 | **22.60** | 18.64 |
| | | 1 | 131 | 22.39 | 25.35 | 25.49 | 22.62 | 22.71 | 22.20 | 21.36 | 24.59 | 20.14 | 18.81 | 21.83 | 17.48 |
| | | 64 | 32 | **25.70** | 25.25 | 25.33 | 23.34 | 23.26 | 23.32 | 25.13 | 25.11 | 25.09 | **22.60** | 22.52 | 22.56 |
| | | 128 | 0 | 25.29 | 25.22 | 25.35 | 22.59 | 22.52 | 22.60 | 24.44 | 24.38 | 24.41 | 21.85 | 21.79 | 21.86 |
| | 16QAM | 1 | 0 | 25.12 | 25.19 | 25.04 | 21.89 | 21.90 | 21.87 | 23.47 | 23.66 | 23.59 | 21.11 | 21.00 | 21.19 |
| | | 1 | 1 | 25.58 | **25.66** | 25.49 | **22.94** | 22.87 | 22.87 | 24.53 | **24.71** | 24.63 | 22.01 | 22.13 | 22.07 |
| | | 1 | 132 | 25.49 | 25.63 | 25.63 | 22.78 | 22.93 | 22.51 | 24.66 | 24.69 | 24.63 | 22.13 | 22.05 | **22.20** |
| | | 1 | 131 | 24.97 | 25.10 | 24.82 | 21.83 | 21.95 | 21.52 | 23.60 | 23.77 | 23.73 | 21.14 | 21.04 | 21.17 |
| | | 64 | 32 | 25.31 | 25.29 | 25.32 | 22.69 | 22.60 | 22.62 | 24.40 | 24.25 | 24.39 | 21.88 | 21.81 | 21.89 |
| | | 128 | 0 | 24.80 | 24.80 | 24.85 | 21.61 | 21.54 | 21.58 | 23.45 | 23.41 | 23.39 | 20.90 | 20.79 | 20.85 |
| | 64QAM | 1 | 0 | **24.65** | 24.54 | 24.50 | 21.27 | 21.30 | 21.38 | **23.27** | 23.15 | 23.16 | 20.51 | 20.50 | 20.58 |
| | | 1 | 1 | 24.57 | 24.45 | 24.48 | 21.38 | 21.18 | **21.44** | 23.13 | 23.06 | 23.18 | 20.45 | 20.52 | 20.60 |
| | | 1 | 132 | 24.46 | 24.47 | 24.54 | 21.21 | 21.32 | 21.17 | 23.05 | 23.05 | 22.97 | 20.60 | 20.54 | 20.57 |
| | | 1 | 131 | 24.52 | 24.56 | 24.63 | 21.26 | 21.28 | 21.24 | 23.09 | 23.02 | 23.22 | **20.65** | 20.48 | 20.56 |
| | | 64 | 32 | 24.23 | 24.22 | 24.34 | 21.00 | 21.00 | 21.03 | 22.87 | 22.80 | 22.89 | 20.36 | 20.32 | 20.37 |
| | | 128 | 0 | 24.28 | 24.26 | 24.33 | 21.09 | 20.98 | 21.08 | 22.96 | 22.91 | 22.86 | 20.39 | 20.29 | 20.39 |
| | 256QAM | 1 | 0 | 22.29 | 22.38 | 22.43 | **19.27** | 19.13 | 19.20 | 20.92 | 20.84 | 20.87 | 18.37 | 18.26 | 18.43 |
| | | 1 | 1 | 22.41 | 22.44 | 22.42 | 19.22 | 19.04 | 19.10 | 20.96 | 20.89 | 20.93 | 18.39 | 18.15 | 18.48 |
| | | 1 | 132 | 22.29 | 22.38 | 22.43 | 18.94 | 19.14 | 19.06 | 20.71 | **21.03** | 20.79 | 18.30 | 18.28 | **18.53** |
| | | 1 | 131 | 22.25 | 22.34 | **22.48** | 18.99 | 19.15 | 18.94 | 20.81 | 20.97 | 20.95 | 18.32 | 18.35 | 18.47 |
| | | 64 | 32 | 22.25 | 22.26 | 22.30 | 18.99 | 18.96 | 18.98 | 20.87 | 20.81 | 20.76 | 18.33 | 18.22 | 18.28 |
| | | 128 | 0 | 22.22 | 22.27 | 22.28 | 19.02 | 18.97 | 19.02 | 20.86 | 20.86 | 20.78 | 18.30 | 18.20 | 18.26 |

## OUTPUT POWER FOR 5G NR n25 (30.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 373000 | 376500 | 380000 | 373000 | 376500 | 380000 | 373000 | 376500 | 380000 | 373000 | 376500 | 380000 |
| | | | | 1865.0 | 1882.5 | 1900.0 | 1865.0 | 1882.5 | 1900.0 | 1865.0 | 1882.5 | 1900.0 | 1865.0 | 1882.5 | 1900.0 |
| 30.0 | BPSK | 1 | 0 | 25.54 | 25.41 | 25.40 | 23.05 | 22.98 | 23.04 | 25.03 | 24.85 | 24.87 | 22.38 | 22.23 | 22.23 |
| | | 1 | 1 | **25.70** | 25.62 | 25.60 | **23.40** | 23.31 | 23.22 | **25.20** | 25.03 | 25.06 | **22.60** | 22.42 | 22.46 |
| | | 1 | 158 | 25.49 | 25.45 | 25.48 | 23.30 | **23.40** | 23.31 | 25.16 | **25.20** | 25.18 | 22.58 | 22.57 | **22.60** |
| | | 1 | 159 | 25.33 | 25.27 | 25.47 | 23.04 | 23.23 | 23.23 | 25.07 | 25.06 | 25.00 | 22.32 | 22.40 | 22.33 |
| | | 80 | 40 | 25.59 | 25.48 | 25.67 | 23.28 | 23.25 | **23.40** | 25.14 | 25.11 | **25.20** | 22.54 | 22.52 | 22.51 |
| | | 160 | 0 | 22.70 | 25.30 | 22.44 | 23.11 | 22.59 | 21.08 | 22.36 | 24.95 | 22.28 | 19.81 | 22.26 | 19.64 |
| | QPSK | 1 | 0 | 21.06 | 25.06 | 21.17 | 21.95 | 19.41 | 19.62 | 20.94 | 24.39 | 20.91 | 18.38 | 21.76 | 18.27 |
| | | 1 | 1 | 22.37 | **25.70** | 22.39 | 22.99 | 20.45 | 20.78 | 22.08 | 25.14 | 21.93 | 19.49 | 22.45 | 19.37 |
| | | 1 | 158 | 22.14 | 25.50 | 21.30 | 22.82 | 20.66 | 19.79 | 22.03 | **25.20** | 20.94 | 19.57 | **22.60** | 18.45 |
| | | 1 | 159 | 21.03 | 24.83 | 20.13 | 21.73 | 19.63 | 18.71 | 21.05 | 24.57 | 19.73 | 18.49 | 21.89 | 17.04 |
| | | 80 | 40 | 25.65 | 24.62 | **25.70** | 23.28 | 23.23 | **23.39** | 25.18 | 24.97 | 25.18 | 22.51 | 22.46 | 22.48 |
| | | 160 | 0 | 24.93 | 23.77 | 21.74 | 22.61 | 22.49 | 21.75 | 24.46 | 23.77 | 24.17 | 21.85 | 21.77 | 21.81 |
| | 16QAM | 1 | 0 | 24.10 | 23.48 | 20.32 | 21.79 | 21.75 | 21.07 | 23.73 | 23.17 | 22.83 | 21.09 | 21.06 | 20.97 |
| | | 1 | 1 | **25.08** | 24.54 | 21.57 | **22.91** | 22.82 | 22.16 | **24.75** | 24.34 | 23.81 | 22.10 | 22.01 | 22.08 |
| | | 1 | 158 | 25.05 | 24.29 | 20.44 | 22.73 | 22.87 | 21.30 | 24.73 | 24.44 | 24.08 | **22.20** | **22.20** | 21.69 |
| | | 1 | 159 | 24.00 | 23.05 | 19.42 | 21.84 | 21.82 | 20.26 | 23.89 | 23.34 | 22.89 | 21.17 | 21.11 | 20.55 |
| | | 80 | 40 | 24.95 | 24.35 | 24.94 | 22.60 | 22.55 | 22.69 | 24.54 | 24.29 | 24.46 | 21.88 | 21.83 | 21.79 |
| | | 160 | 0 | 23.97 | 23.76 | 23.95 | 21.64 | 21.58 | 21.74 | 23.48 | 23.41 | 23.46 | 20.84 | 20.86 | 20.85 |
| | 64QAM | 1 | 0 | 23.63 | **23.65** | 23.14 | 21.30 | **21.38** | 21.26 | 23.19 | 22.94 | 22.58 | 20.47 | 20.28 | 20.60 |
| | | 1 | 1 | 23.65 | 23.64 | 23.10 | 21.35 | 21.34 | 21.11 | **23.24** | 22.99 | 22.68 | 20.56 | 20.35 | 20.48 |
| | | 1 | 158 | 23.55 | 23.43 | 23.39 | 21.05 | 21.29 | 21.35 | 23.17 | 23.10 | 23.12 | **20.88** | 20.41 | 20.48 |
| | | 1 | 159 | 23.64 | 23.41 | 23.35 | 21.00 | 21.27 | 21.20 | 23.07 | 23.19 | 22.96 | 20.72 | 20.51 | 20.47 |
| | | 80 | 40 | 23.42 | 23.06 | 23.45 | 20.94 | 21.02 | 21.17 | 22.94 | 22.86 | 22.90 | 20.32 | 20.32 | 20.25 |
| | | 160 | 0 | 23.43 | 23.31 | 23.48 | 20.97 | 21.10 | 21.23 | 23.01 | 22.94 | 22.93 | 20.36 | 20.35 | 20.33 |
| | 256QAM | 1 | 0 | 21.54 | 21.42 | **21.64** | 19.00 | 19.12 | 19.05 | 21.01 | 20.94 | 20.91 | 18.32 | 18.32 | 18.46 |
| | | 1 | 1 | **21.64** | 21.39 | 21.48 | 18.99 | 18.99 | 19.04 | 21.06 | 21.02 | 20.87 | 18.44 | 18.34 | 18.26 |
| | | 1 | 158 | 21.42 | 21.33 | 21.50 | 18.96 | 18.98 | 19.13 | **21.16** | 21.13 | 20.95 | **18.51** | 18.34 | 18.43 |
| | | 1 | 159 | 21.40 | 21.31 | 21.48 | 18.95 | 19.00 | **19.23** | 21.01 | 21.07 | 20.95 | 18.33 | 18.36 | 18.38 |
| | | 80 | 40 | 21.48 | 21.33 | 21.41 | 18.90 | 18.90 | 19.16 | 21.00 | 20.93 | 20.94 | 18.32 | 18.31 | 18.24 |
| | | 160 | 0 | 21.49 | 21.34 | 21.43 | 18.94 | 18.95 | 19.22 | 20.96 | 20.96 | 20.92 | 18.31 | 18.28 | 18.27 |

## OUTPUT POWER FOR 5G NR n25 (40.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 374000 | 376500 | 379000 | 374000 | 376500 | 379000 | 374000 | 376500 | 379000 | 374000 | 376500 | 379000 |
| | | | | 1870.0 | 1882.5 | 1895.0 | 1870.0 | 1882.5 | 1895.0 | 1870.0 | 1882.5 | 1895.0 | 1870.0 | 1882.5 | 1895.0 |
| 40.0 | BPSK | 1 | 0 | 25.46 | 25.51 | 25.40 | 22.75 | 23.07 | 23.09 | 24.85 | 24.77 | 24.97 | 22.30 | 22.35 | 22.32 |
| | | 1 | 1 | **25.70** | **25.70** | **25.70** | 23.10 | 23.32 | 23.23 | 25.04 | 24.90 | 25.16 | 22.47 | **22.60** | 22.35 |
| | | 1 | 214 | 25.61 | 25.43 | 25.44 | 23.25 | 23.34 | **23.40** | **25.20** | **25.20** | **25.20** | 22.56 | **22.60** | **22.60** |
| | | 1 | 215 | 25.38 | 25.19 | 25.22 | 23.03 | 23.16 | 23.28 | 25.04 | 24.80 | 25.07 | 22.43 | 22.47 | 22.27 |
| | | 108 | 54 | 25.59 | 25.47 | 25.55 | 23.09 | 23.33 | 23.36 | 25.00 | 25.00 | 25.19 | 22.44 | 22.55 | 22.51 |
| | | 216 | 0 | 25.44 | 25.31 | 23.01 | 22.96 | 23.17 | 21.07 | 24.99 | 24.86 | 22.34 | 22.25 | 22.39 | 19.69 |
| | QPSK | 1 | 0 | 24.32 | 25.05 | 21.44 | 22.40 | 21.92 | 19.93 | 23.57 | 24.36 | 21.40 | 21.40 | 21.52 | 18.72 |
| | | 1 | 1 | 25.30 | 25.67 | 22.58 | 23.13 | 23.04 | 21.12 | 24.56 | 24.99 | 22.37 | 22.44 | 22.54 | 19.73 |
| | | 1 | 214 | 25.06 | 25.39 | 20.97 | **23.40** | 22.89 | 19.71 | 24.85 | 25.10 | 21.05 | **22.60** | 22.59 | 18.39 |
| | | 1 | 215 | 24.03 | 24.77 | 19.88 | 22.68 | 21.82 | 18.58 | 23.76 | 24.41 | 19.96 | 21.53 | 21.46 | 17.10 |
| | | 108 | 54 | **25.69** | 25.24 | 25.53 | 23.25 | **23.40** | **23.40** | 25.02 | 24.92 | **25.17** | 22.43 | 22.58 | 22.50 |
| | | 216 | 0 | 24.32 | 23.36 | 24.88 | 21.05 | 22.70 | 22.72 | 24.01 | 23.90 | 24.15 | 21.51 | 21.56 | 21.85 |
| | 16QAM | 1 | 0 | 23.43 | 22.06 | 24.13 | 18.26 | 21.67 | 21.84 | 22.98 | 23.25 | 23.78 | 20.44 | 20.91 | 21.04 |
| | | 1 | 1 | 24.52 | 23.20 | **25.12** | 19.29 | **22.96** | 22.84 | 23.76 | 24.32 | **24.71** | 21.70 | 21.89 | 21.85 |
| | | 1 | 214 | 24.11 | 22.72 | 24.93 | 19.56 | 22.68 | **22.96** | 24.23 | 24.63 | 24.38 | 21.75 | **21.99** | 21.66 |
| | | 1 | 215 | 23.11 | 21.73 | 23.88 | 18.32 | 21.77 | 21.99 | 23.08 | 23.71 | 23.27 | 20.72 | 20.96 | 20.44 |
| | | 108 | 54 | 24.96 | 24.53 | 24.88 | 22.62 | 22.64 | 22.67 | 24.36 | 24.30 | 24.50 | 21.79 | 21.94 | 21.83 |
| | | 216 | 0 | 23.98 | 23.77 | 23.74 | 21.60 | 21.63 | 21.68 | 23.34 | 23.37 | 23.54 | 20.77 | 20.97 | 20.86 |
| | 64QAM | 1 | 0 | 23.64 | 23.65 | 23.43 | 21.38 | 21.04 | 21.23 | 22.98 | 22.94 | 23.01 | 20.51 | 20.50 | 20.47 |
| | | 1 | 1 | 23.68 | 23.67 | **23.71** | 21.11 | 21.24 | 21.04 | 22.87 | 23.08 | 23.12 | 20.60 | 20.24 | 20.34 |
| | | 1 | 214 | 23.57 | 23.49 | 23.35 | 21.39 | 21.33 | **21.50** | 23.10 | 23.07 | 23.03 | 20.37 | 20.51 | 20.32 |
| | | 1 | 215 | 23.45 | 23.38 | 23.29 | 21.32 | 21.30 | 21.29 | **23.15** | 23.00 | 23.08 | 20.48 | **20.67** | 20.42 |
| | | 108 | 54 | 23.36 | 23.08 | 23.24 | 21.08 | 21.04 | 21.18 | 22.81 | 22.83 | 23.07 | 20.30 | 20.49 | 20.30 |
| | | 216 | 0 | 23.42 | 23.35 | 23.32 | 21.09 | 21.09 | 21.21 | 22.92 | 22.89 | 23.08 | 20.31 | 20.48 | 20.31 |
| | 256QAM | 1 | 0 | 21.40 | 21.46 | 21.37 | 19.12 | 19.03 | 19.15 | 21.00 | 20.82 | 20.95 | 18.48 | 18.47 | 18.14 |
| | | 1 | 1 | 21.52 | 21.36 | 21.27 | **19.32** | 18.91 | 19.04 | 20.93 | 20.83 | 20.92 | 18.20 | 18.41 | 18.13 |
| | | 1 | 214 | 21.45 | 21.37 | 21.32 | 19.10 | 19.08 | 19.32 | 21.10 | 21.10 | **21.25** | 18.47 | 18.50 | **18.59** |
| | | 1 | 215 | **21.56** | 21.23 | 21.55 | 19.23 | 19.16 | 19.21 | 21.14 | 21.09 | 21.16 | 18.58 | 18.42 | 18.22 |
| | | 108 | 54 | 21.40 | 21.36 | 21.25 | 18.94 | 18.96 | 19.08 | 20.89 | 20.78 | 20.98 | 18.19 | 18.42 | 18.25 |
| | | 216 | 0 | 21.43 | 21.39 | 21.32 | 19.03 | 18.99 | 19.14 | 20.88 | 20.85 | 21.08 | 18.25 | 18.43 | 18.28 |

# 8.8. LTE BAND 26 AND 5G NR n26 (FCC Part 90S)

## LTE BAND 26

**Test Engineer ID:** 39004 **Test Date:** 4/22/2022

## OUTPUT POWER FOR LTE BAND 26 (1.4 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 26697 | 26740 | 26783 | 26697 | 26740 | 26783 |
| | | | | 814.7 | 819.0 | 823.3 | 814.7 | 819.0 | 823.3 |
| 1.4 | QPSK | 1 | 0 | 25.68 | 25.60 | 25.57 | 24.58 | 24.56 | 24.55 |
| | | 1 | 2 | **25.70** | 25.60 | 25.59 | **24.70** | 24.65 | 24.67 |
| | | 1 | 5 | 25.66 | 25.59 | 25.55 | 24.65 | 24.62 | 24.62 |
| | | 3 | 0 | 25.66 | 25.60 | 25.56 | 24.66 | 24.63 | 24.61 |
| | | 3 | 1 | 25.66 | 25.62 | 25.55 | 24.64 | 24.66 | 24.61 |
| | | 3 | 2 | 25.67 | 25.61 | 25.56 | 24.64 | 24.64 | 24.61 |
| | | 6 | 0 | 24.97 | 24.90 | 24.84 | 23.60 | 23.61 | 23.60 |
| | 16QAM | 1 | 0 | 25.30 | 25.14 | 25.19 | 23.84 | 23.77 | 23.84 |
| | | 1 | 2 | **25.31** | 25.15 | 25.15 | 23.94 | 23.83 | **23.97** |
| | | 1 | 5 | 25.27 | 25.15 | 25.17 | 23.88 | 23.85 | 23.92 |
| | | 3 | 0 | 25.14 | 25.04 | 25.00 | 23.79 | 23.76 | 23.76 |
| | | 3 | 1 | 25.15 | 25.05 | 25.02 | 23.81 | 23.77 | 23.77 |
| | | 3 | 2 | 25.14 | 25.06 | 25.03 | 23.81 | 23.73 | 23.76 |
| | | 6 | 0 | 24.04 | 23.94 | 23.95 | 22.71 | 22.67 | 22.67 |
| | 64QAM | 1 | 0 | 24.18 | 24.21 | 24.19 | 22.73 | 22.73 | 22.64 |
| | | 1 | 2 | 24.09 | **24.22** | 24.09 | 22.83 | **22.87** | 22.78 |
| | | 1 | 5 | 24.17 | 24.18 | 24.14 | 22.76 | 22.77 | 22.70 |
| | | 3 | 0 | 24.06 | 24.03 | 23.98 | 22.76 | 22.77 | 22.76 |
| | | 3 | 1 | 24.06 | 24.02 | 23.98 | 22.76 | 22.77 | 22.76 |
| | | 3 | 2 | 24.05 | 24.05 | 23.98 | 22.79 | 22.79 | 22.74 |
| | | 6 | 0 | 23.01 | 23.01 | 22.87 | 21.74 | 21.71 | 21.63 |
| | 256QAM | 1 | 0 | 21.07 | 21.12 | 21.03 | 19.71 | 19.61 | 19.54 |
| | | 1 | 2 | 21.13 | **21.14** | 21.03 | 19.74 | 19.72 | **19.85** |
| | | 1 | 5 | 21.11 | 21.07 | 20.98 | 19.67 | 19.67 | 19.61 |
| | | 3 | 0 | 20.98 | 20.99 | 20.96 | 19.68 | 19.68 | 19.69 |
| | | 3 | 1 | 20.99 | 20.99 | 20.96 | 19.69 | 19.69 | 19.67 |
| | | 3 | 2 | 20.98 | 21.00 | 20.96 | 19.70 | 19.66 | 19.65 |
| | | 6 | 0 | 21.06 | 20.97 | 20.77 | 19.62 | 19.55 | 19.51 |

## OUTPUT POWER FOR LTE BAND 26 (3.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 26705 | 26740 | 26775 | 26705 | 26740 | 26775 |
| | | | | 815.5 | 819.0 | 822.5 | 815.5 | 819.0 | 822.5 |
| 3.0 | QPSK | 1 | 0 | 25.59 | 25.53 | 25.54 | 24.55 | 24.56 | 24.59 |
| | | 1 | 7 | **25.70** | 25.64 | 25.64 | **24.70** | 24.69 | 24.66 |
| | | 1 | 14 | 25.58 | 25.51 | 25.52 | 24.60 | 24.59 | 24.57 |
| | | 8 | 0 | 24.99 | 24.93 | 24.91 | 23.60 | 23.59 | 23.58 |
| | | 8 | 4 | 24.99 | 24.95 | 24.93 | 23.70 | 23.69 | 23.68 |
| | | 8 | 7 | 25.00 | 24.95 | 24.92 | 23.71 | 23.68 | 23.68 |
| | | 15 | 0 | 24.96 | 24.92 | 24.92 | 23.64 | 23.65 | 23.65 |
| | 16QAM | 1 | 0 | 25.22 | 25.25 | 25.20 | 23.98 | 23.90 | 23.95 |
| | | 1 | 7 | 25.32 | **25.37** | 25.31 | **24.10** | 24.09 | 24.07 |
| | | 1 | 14 | 25.23 | 25.18 | 25.19 | 23.97 | 23.99 | 23.95 |
| | | 8 | 0 | 24.02 | 24.04 | 23.94 | 22.67 | 22.64 | 22.63 |
| | | 8 | 4 | 24.06 | 24.06 | 23.99 | 22.78 | 22.79 | 22.75 |
| | | 8 | 7 | 24.03 | 24.04 | 23.96 | 22.75 | 22.77 | 22.74 |
| | | 15 | 0 | 23.96 | 23.95 | 23.91 | 22.69 | 22.68 | 22.67 |
| | 64QAM | 1 | 0 | 24.22 | 24.18 | 24.18 | 22.90 | 22.90 | 22.86 |
| | | 1 | 7 | **24.33** | 24.26 | 24.27 | **23.01** | 22.98 | 22.90 |
| | | 1 | 14 | 24.23 | 24.22 | 24.12 | 22.99 | 22.95 | 22.84 |
| | | 8 | 0 | 23.03 | 23.02 | 22.99 | 21.60 | 21.62 | 21.64 |
| | | 8 | 4 | 23.07 | 23.04 | 23.02 | 21.71 | 21.74 | 21.75 |
| | | 8 | 7 | 23.06 | 23.04 | 23.03 | 21.73 | 21.73 | 21.75 |
| | | 15 | 0 | 22.99 | 22.97 | 22.95 | 21.72 | 21.70 | 21.68 |
| | 256QAM | 1 | 0 | 20.91 | 20.97 | 20.99 | 19.68 | 19.66 | 19.70 |
| | | 1 | 7 | 21.10 | **21.22** | 21.15 | 19.81 | 19.77 | **19.86** |
| | | 1 | 14 | 21.04 | 21.07 | 20.95 | 19.73 | 19.69 | 19.76 |
| | | 8 | 0 | 20.99 | 20.94 | 20.93 | 19.60 | 19.60 | 19.61 |
| | | 8 | 4 | 21.03 | 20.99 | 21.00 | 19.73 | 19.72 | 19.71 |
| | | 8 | 7 | 21.01 | 20.99 | 20.94 | 19.74 | 19.73 | 19.72 |
| | | 15 | 0 | 20.98 | 20.96 | 20.92 | 19.68 | 19.70 | 19.69 |

## OUTPUT POWER FOR LTE BAND 26 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 26715 | 26740 | 26765 | 26715 | 26740 | 26765 |
| | | | | 816.5 | 819.0 | 821.5 | 816.5 | 819.0 | 821.5 |
| 5.0 | QPSK | 1 | 0 | 25.62 | 25.58 | 25.53 | 24.61 | 24.53 | 24.50 |
| | | 1 | 12 | **25.70** | 25.66 | 25.64 | **24.70** | 24.61 | 24.61 |
| | | 1 | 24 | 25.62 | 25.56 | 25.54 | 24.62 | 24.51 | 24.48 |
| | | 12 | 0 | 24.89 | 24.88 | 24.80 | 23.55 | 23.48 | 23.46 |
| | | 12 | 6 | 24.98 | 24.90 | 24.87 | 23.64 | 23.59 | 23.51 |
| | | 12 | 11 | 24.94 | 24.90 | 24.85 | 23.64 | 23.52 | 23.51 |
| | | 25 | 0 | 24.92 | 24.89 | 24.88 | 23.64 | 23.53 | 23.49 |
| | 16QAM | 1 | 0 | 25.26 | 25.21 | 25.17 | 23.99 | 23.85 | 23.85 |
| | | 1 | 12 | 25.29 | **25.32** | 25.31 | **24.05** | 24.02 | 23.92 |
| | | 1 | 24 | 25.25 | 25.16 | 25.21 | 24.02 | 23.86 | 23.82 |
| | | 12 | 0 | 23.88 | 23.93 | 23.87 | 22.60 | 22.47 | 22.45 |
| | | 12 | 6 | 23.97 | 23.94 | 23.97 | 22.70 | 22.57 | 22.52 |
| | | 12 | 11 | 23.93 | 23.92 | 23.95 | 22.67 | 22.54 | 22.50 |
| | | 25 | 0 | 23.96 | 23.93 | 23.87 | 22.65 | 22.54 | 22.54 |
| | 64QAM | 1 | 0 | 24.23 | 24.17 | 24.09 | 22.82 | 22.72 | **22.86** |
| | | 1 | 12 | **24.27** | 24.20 | 24.13 | 22.83 | 22.74 | 22.85 |
| | | 1 | 24 | 24.21 | 24.20 | 24.10 | 22.80 | 22.72 | 22.76 |
| | | 12 | 0 | 22.88 | 22.95 | 22.81 | 21.59 | 21.53 | 21.57 |
| | | 12 | 6 | 23.01 | 22.95 | 22.91 | 21.68 | 21.62 | 21.64 |
| | | 12 | 11 | 22.97 | 22.93 | 22.86 | 21.66 | 21.57 | 21.63 |
| | | 25 | 0 | 22.94 | 22.93 | 22.89 | 21.56 | 21.54 | 21.53 |
| | 256QAM | 1 | 0 | 21.06 | 20.94 | 20.99 | 19.55 | 19.53 | 19.56 |
| | | 1 | 12 | **21.13** | 21.03 | 21.08 | 19.67 | 19.61 | **19.69** |
| | | 1 | 24 | 21.08 | 21.01 | 20.99 | 19.67 | 19.58 | 19.64 |
| | | 12 | 0 | 20.86 | 20.94 | 20.81 | 19.50 | 19.48 | 19.46 |
| | | 12 | 6 | 20.98 | 20.96 | 20.88 | 19.61 | 19.58 | 19.55 |
| | | 12 | 11 | 20.93 | 20.89 | 20.87 | 19.57 | 19.56 | 19.54 |
| | | 25 | 0 | 20.94 | 20.92 | 20.88 | 19.56 | 19.54 | 19.54 |

## OUTPUT POWER FOR LTE BAND 26 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | N/A | 26740 | N/A | N/A | 26740 | N/A |
| | | | | N/A | 819.0 | N/A | N/A | 819.0 | N/A |
| 10.0 | QPSK | 1 | 0 | | **25.70** | | | 24.69 | |
| | | 1 | 24 | | 25.69 | | | **24.70** | |
| | | 1 | 49 | | 25.64 | | | 24.64 | |
| | | 25 | 0 | | 25.00 | | | 23.67 | |
| | | 25 | 12 | | 25.04 | | | 23.74 | |
| | | 25 | 24 | | 25.05 | | | 23.74 | |
| | | 50 | 0 | | 25.05 | | | 23.72 | |
| | 16QAM | 1 | 0 | | **25.33** | | | 24.00 | |
| | | 1 | 24 | | 25.26 | | | **24.01** | |
| | | 1 | 49 | | 25.25 | | | 23.97 | |
| | | 25 | 0 | | 24.00 | | | 22.66 | |
| | | 25 | 12 | | 24.06 | | | 22.73 | |
| | | 25 | 24 | | 24.04 | | | 22.72 | |
| | | 50 | 0 | | 24.05 | | | 22.76 | |
| | 64QAM | 1 | 0 | | **24.25** | | | **22.87** | |
| | | 1 | 24 | | 24.22 | | | 22.85 | |
| | | 1 | 49 | | 24.24 | | | 22.83 | |
| | | 25 | 0 | | 22.99 | | | 21.60 | |
| | | 25 | 12 | | 23.04 | | | 21.64 | |
| | | 25 | 24 | | 23.00 | | | 21.64 | |
| | | 50 | 0 | | 23.03 | | | 21.65 | |
| | 256QAM | 1 | 0 | | 21.08 | | | 19.67 | |
| | | 1 | 24 | | **21.18** | | | **19.83** | |
| | | 1 | 49 | | 21.10 | | | 19.69 | |
| | | 25 | 0 | | 20.97 | | | 19.59 | |
| | | 25 | 12 | | 21.04 | | | 19.66 | |
| | | 25 | 24 | | 21.02 | | | 19.64 | |
| | | 50 | 0 | | 21.02 | | | 19.65 | |

## 5G NR n26

| Test Engineer ID: | 27957 | Test Date: | 5/20/2022 |
|---|---|---|---|

## OUTPUT POWER FOR 5G NR n26 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 163300 | 163800 | 164300 | 163300 | 163800 | 164300 |
| | | | | 816.5 | 819.0 | 821.5 | 816.5 | 819.0 | 821.5 |
| 5.0 | BPSK | 1 | 0 | 24.20 | 25.22 | 25.14 | 23.20 | 24.47 | 24.46 |
| | | 1 | 1 | 25.67 | 25.64 | 25.59 | 24.65 | 24.66 | 24.64 |
| | | 1 | 23 | 25.66 | 25.64 | **25.69** | 24.55 | 24.61 | 24.58 |
| | | 1 | 24 | 24.20 | 25.08 | 25.15 | 23.20 | 24.40 | 24.41 |
| | | 12 | 6 | 25.69 | 25.68 | 25.62 | 24.60 | **24.67** | 24.61 |
| | | 25 | 0 | 25.12 | 25.08 | 25.02 | 24.38 | 24.40 | 24.37 |
| | QPSK | 1 | 0 | 24.20 | 24.72 | 24.62 | 23.20 | 24.00 | 23.99 |
| | | 1 | 1 | **25.70** | **25.70** | 25.66 | 24.69 | 24.68 | **24.70** |
| | | 1 | 23 | 25.65 | 25.65 | **25.70** | **24.70** | 24.65 | 24.64 |
| | | 1 | 24 | 24.20 | 24.67 | 24.69 | 23.20 | 23.94 | 23.94 |
| | | 12 | 6 | 25.68 | 25.65 | 25.62 | 24.69 | **24.70** | 24.68 |
| | | 25 | 0 | 24.66 | 24.66 | 24.62 | 24.00 | 23.98 | 23.97 |
| | 16QAM | 1 | 0 | 23.88 | 23.93 | 23.84 | 22.99 | 23.27 | 23.27 |
| | | 1 | 1 | 24.93 | **24.96** | 24.82 | 23.90 | **24.28** | 24.24 |
| | | 1 | 23 | 24.90 | 24.94 | 24.87 | 23.90 | 24.19 | 24.25 |
| | | 1 | 24 | 23.84 | 23.83 | 23.84 | 22.89 | 23.14 | 23.18 |
| | | 12 | 6 | 24.62 | 24.59 | 24.48 | 24.04 | 23.88 | 23.94 |
| | | 25 | 0 | 23.68 | 23.59 | 23.59 | 23.02 | 22.96 | 22.90 |
| | 64QAM | 1 | 0 | 23.33 | 23.28 | 23.17 | 22.79 | 22.67 | 22.58 |
| | | 1 | 1 | **23.43** | 23.31 | 23.30 | **22.85** | 22.68 | 22.60 |
| | | 1 | 23 | 23.25 | 23.27 | 23.27 | 22.77 | 22.54 | 22.57 |
| | | 1 | 24 | 23.26 | 23.35 | 23.35 | 22.74 | 22.55 | 22.57 |
| | | 12 | 6 | 23.05 | 23.01 | 23.10 | 22.60 | 22.52 | 22.44 |
| | | 25 | 0 | 23.15 | 23.12 | 23.14 | 22.58 | 22.46 | 22.44 |
| | 256QAM | 1 | 0 | 21.18 | 21.12 | 21.11 | 20.60 | 20.36 | 20.37 |
| | | 1 | 1 | **21.21** | 21.15 | 21.05 | **20.66** | 20.41 | 20.38 |
| | | 1 | 23 | 21.03 | 21.05 | 21.09 | 20.58 | 20.36 | 20.14 |
| | | 1 | 24 | 21.06 | 21.19 | 21.05 | 20.59 | 20.34 | 20.19 |
| | | 12 | 6 | 21.15 | 21.15 | 21.17 | 20.60 | 20.37 | 20.20 |
| | | 25 | 0 | 21.14 | 21.06 | 21.15 | 20.49 | 20.38 | 20.18 |

## OUTPUT POWER FOR 5G NR n26 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | N/A | 163800 | N/A | N/A | 163800 | N/A |
| | | | | N/A | 819.0 | N/A | N/A | 819.0 | N/A |
| 10.0 | BPSK | 1 | 0 | | 24.20 | | | 23.20 | |
| | | 1 | 1 | | **25.68** | | | **24.58** | |
| | | 1 | 50 | | **25.68** | | | 24.53 | |
| | | 1 | 51 | | 24.20 | | | 23.20 | |
| | | 25 | 12 | | 25.61 | | | **24.58** | |
| | | 50 | 0 | | 25.16 | | | 24.43 | |
| | QPSK | 1 | 0 | | 24.20 | | | 23.20 | |
| | | 1 | 1 | | **25.70** | | | **24.70** | |
| | | 1 | 50 | | 25.68 | | | 24.54 | |
| | | 1 | 51 | | 24.20 | | | 23.20 | |
| | | 25 | 12 | | 25.64 | | | 24.64 | |
| | | 50 | 0 | | 24.64 | | | 23.92 | |
| | 16QAM | 1 | 0 | | 23.90 | | | 23.14 | |
| | | 1 | 1 | | **24.94** | | | **24.14** | |
| | | 1 | 50 | | 24.90 | | | 24.01 | |
| | | 1 | 51 | | 23.91 | | | 23.09 | |
| | | 25 | 12 | | 24.66 | | | 23.87 | |
| | | 50 | 0 | | 23.64 | | | 22.91 | |
| | 64QAM | 1 | 0 | | 23.39 | | | 22.50 | |
| | | 1 | 1 | | **23.40** | | | **22.54** | |
| | | 1 | 50 | | 23.37 | | | 22.46 | |
| | | 1 | 51 | | 23.25 | | | 22.35 | |
| | | 25 | 12 | | 23.11 | | | 22.33 | |
| | | 50 | 0 | | 23.11 | | | 22.35 | |
| | 256QAM | 1 | 0 | | 20.99 | | | 20.33 | |
| | | 1 | 1 | | 21.16 | | | **20.38** | |
| | | 1 | 50 | | **21.19** | | | 20.24 | |
| | | 1 | 51 | | 21.10 | | | 20.20 | |
| | | 25 | 12 | | 21.08 | | | 20.26 | |
| | | 50 | 0 | | 21.07 | | | 20.27 | |

# 8.1. LTE BAND 26 AND 5G NR n26 (FCC PART 22)

## LTE BAND 26

| Test Engineer ID: | | Test Date: | 4/20/2022 |
|---|---|---|---|

## OUTPUT POWER FOR LTE BAND 26 (1.4 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 26797 | 26915 | 27033 | 26797 | 26915 | 27033 |
| | | | | 824.7 | 836.5 | 848.3 | 824.7 | 836.5 | 848.3 |
| 1.4 | QPSK | 1 | 0 | 25.68 | 25.38 | 25.41 | 24.60 | 24.52 | 24.51 |
| | | 1 | 2 | **25.70** | 25.48 | 25.44 | **24.70** | 24.53 | 24.28 |
| | | 1 | 5 | 25.66 | 25.44 | 25.10 | 24.61 | 24.59 | 23.67 |
| | | 3 | 0 | 25.67 | 25.39 | 25.44 | 24.69 | 24.53 | 24.45 |
| | | 3 | 1 | 25.66 | 25.49 | 25.42 | 24.68 | 24.54 | 24.24 |
| | | 3 | 2 | 25.68 | 25.48 | 25.43 | **24.70** | 24.54 | 24.01 |
| | | 6 | 0 | 24.95 | 24.76 | 24.65 | 23.67 | 23.51 | 23.25 |
| | 16QAM | 1 | 0 | 25.25 | 24.88 | 24.91 | 23.78 | 23.72 | 23.66 |
| | | 1 | 2 | **25.28** | 24.97 | 24.87 | **23.88** | 23.70 | 23.44 |
| | | 1 | 5 | 25.24 | 24.99 | 24.39 | 23.87 | 23.78 | 22.88 |
| | | 3 | 0 | 25.12 | 24.79 | 24.85 | 23.83 | 23.67 | 23.49 |
| | | 3 | 1 | 25.10 | 24.89 | 24.81 | 23.85 | 23.69 | 23.33 |
| | | 3 | 2 | 25.11 | 24.88 | 24.63 | 23.85 | 23.67 | 23.11 |
| | | 6 | 0 | 24.04 | 23.83 | 23.69 | 22.76 | 22.53 | 22.29 |
| | 64QAM | 1 | 0 | 24.21 | 23.93 | 23.84 | 22.92 | 22.86 | 22.80 |
| | | 1 | 2 | **24.28** | 24.11 | 23.94 | **23.00** | 22.81 | 22.63 |
| | | 1 | 5 | 24.22 | 24.01 | 23.46 | 22.93 | 22.84 | 22.17 |
| | | 3 | 0 | 24.05 | 23.79 | 23.90 | 22.75 | 22.61 | 22.62 |
| | | 3 | 1 | 24.04 | 23.87 | 23.91 | 22.76 | 22.61 | 22.49 |
| | | 3 | 2 | 24.06 | 23.87 | 23.87 | 22.78 | 22.57 | 22.33 |
| | | 6 | 0 | 23.02 | 22.78 | 22.92 | 21.65 | 21.48 | 21.42 |
| | 256QAM | 1 | 0 | **21.08** | 20.82 | 20.79 | 19.68 | 19.58 | 19.57 |
| | | 1 | 2 | **21.08** | 20.92 | 20.87 | **19.82** | 19.69 | 19.67 |
| | | 1 | 5 | 21.00 | 20.85 | 20.84 | 19.73 | 19.64 | 19.48 |
| | | 3 | 0 | 20.97 | 20.77 | 20.81 | 19.73 | 19.54 | 19.56 |
| | | 3 | 1 | 20.97 | 20.83 | 20.82 | 19.71 | 19.54 | 19.57 |
| | | 3 | 2 | 20.98 | 20.82 | 20.80 | 19.71 | 19.52 | 19.56 |
| | | 6 | 0 | 21.02 | 20.65 | 20.71 | 19.65 | 19.55 | 19.46 |

## OUTPUT POWER FOR LTE BAND 26 (3.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 26805 | 26915 | 27025 | 26805 | 26915 | 27025 |
| | | | | 825.5 | 836.5 | 847.5 | 825.5 | 836.5 | 847.5 |
| 3.0 | QPSK | 1 | 0 | 25.61 | 25.38 | 25.42 | 24.59 | 24.49 | 24.56 |
| | | 1 | 7 | **25.70** | 25.50 | 25.51 | **24.70** | 24.61 | 24.60 |
| | | 1 | 14 | 25.60 | 25.44 | 25.39 | 24.60 | 24.50 | 24.54 |
| | | 8 | 0 | 24.98 | 24.72 | 24.80 | 23.58 | 23.51 | 23.59 |
| | | 8 | 4 | 24.99 | 24.83 | 24.81 | 23.68 | 23.54 | 23.61 |
| | | 8 | 7 | 25.01 | 24.82 | 24.80 | 23.69 | 23.62 | 23.61 |
| | | 15 | 0 | 24.95 | 24.77 | 24.77 | 23.63 | 23.50 | 23.57 |
| | 16QAM | 1 | 0 | 25.25 | 25.06 | 25.15 | 23.89 | 23.88 | 23.96 |
| | | 1 | 7 | **25.28** | 25.23 | 25.24 | 23.98 | 24.01 | **24.05** |
| | | 1 | 14 | 25.21 | 25.13 | 25.07 | 23.86 | 23.91 | 23.93 |
| | | 8 | 0 | 24.05 | 23.78 | 23.85 | 22.62 | 22.57 | 22.64 |
| | | 8 | 4 | 24.09 | 23.87 | 23.87 | 22.72 | 22.60 | 22.67 |
| | | 8 | 7 | 24.07 | 23.87 | 23.88 | 22.72 | 22.67 | 22.67 |
| | | 15 | 0 | 23.97 | 23.80 | 23.79 | 22.66 | 22.53 | 22.61 |
| | 64QAM | 1 | 0 | 24.21 | 24.01 | 24.00 | 22.90 | 22.84 | 22.88 |
| | | 1 | 7 | **24.28** | 24.13 | 24.11 | 22.89 | **22.92** | 22.87 |
| | | 1 | 14 | 24.18 | 24.12 | 24.02 | 22.81 | 22.86 | 22.76 |
| | | 8 | 0 | 22.98 | 22.75 | 22.78 | 21.61 | 21.53 | 21.64 |
| | | 8 | 4 | 22.99 | 22.86 | 22.82 | 21.70 | 21.57 | 21.68 |
| | | 8 | 7 | 23.00 | 22.86 | 22.81 | 21.73 | 21.65 | 21.68 |
| | | 15 | 0 | 22.98 | 22.80 | 22.78 | 21.69 | 21.53 | 21.62 |
| | 256QAM | 1 | 0 | 21.00 | 20.79 | 20.83 | 19.66 | 19.67 | 19.71 |
| | | 1 | 7 | **21.08** | 20.86 | 20.96 | **19.83** | 19.73 | 19.81 |
| | | 1 | 14 | 21.06 | 20.76 | 20.86 | 19.74 | 19.71 | 19.64 |
| | | 8 | 0 | 20.96 | 20.73 | 20.78 | 19.59 | 19.54 | 19.60 |
| | | 8 | 4 | 21.00 | 20.85 | 20.81 | 19.72 | 19.59 | 19.63 |
| | | 8 | 7 | 20.99 | 20.83 | 20.81 | 19.71 | 19.66 | 19.63 |
| | | 15 | 0 | 20.97 | 20.82 | 20.76 | 19.65 | 19.51 | 19.60 |

## OUTPUT POWER FOR LTE BAND 26 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 26815 | 26915 | 27015 | 26815 | 26915 | 27015 |
| | | | | 826.5 | 836.5 | 846.5 | 826.5 | 836.5 | 846.5 |
| 5.0 | QPSK | 1 | 0 | 25.64 | 25.42 | 25.44 | 24.61 | 24.55 | 24.57 |
| | | 1 | 12 | **25.70** | 25.52 | 25.51 | **24.70** | 24.62 | 24.64 |
| | | 1 | 24 | 25.62 | 25.41 | 25.40 | 24.59 | 24.55 | 24.50 |
| | | 12 | 0 | 24.86 | 24.70 | 24.68 | 23.56 | 23.47 | 23.49 |
| | | 12 | 6 | 24.98 | 24.78 | 24.76 | 23.63 | 23.50 | 23.56 |
| | | 12 | 11 | 24.94 | 24.77 | 24.75 | 23.61 | 23.56 | 23.52 |
| | | 25 | 0 | 24.92 | 24.74 | 24.65 | 23.61 | 23.47 | 23.46 |
| | 16QAM | 1 | 0 | 25.23 | 25.07 | 25.07 | 23.98 | 23.85 | 23.84 |
| | | 1 | 12 | **25.35** | 25.16 | 25.19 | **24.04** | 23.99 | 23.97 |
| | | 1 | 24 | 25.25 | 25.04 | 25.04 | 23.95 | 23.86 | 23.84 |
| | | 12 | 0 | 23.94 | 23.72 | 23.71 | 22.66 | 22.55 | 22.52 |
| | | 12 | 6 | 24.05 | 23.80 | 23.83 | 22.77 | 22.57 | 22.61 |
| | | 12 | 11 | 24.02 | 23.78 | 23.77 | 22.74 | 22.62 | 22.59 |
| | | 25 | 0 | 23.96 | 23.76 | 23.66 | 22.60 | 22.52 | 22.48 |
| | 64QAM | 1 | 0 | 24.16 | 24.01 | 23.98 | **22.85** | 22.81 | 22.76 |
| | | 1 | 12 | **24.21** | 24.03 | 24.06 | 22.84 | 22.83 | 22.80 |
| | | 1 | 24 | 24.15 | 23.96 | 23.93 | 22.84 | 22.81 | 22.76 |
| | | 12 | 0 | 22.95 | 22.66 | 22.73 | 21.63 | 21.48 | 21.50 |
| | | 12 | 6 | 23.05 | 22.75 | 22.82 | 21.71 | 21.51 | 21.59 |
| | | 12 | 11 | 23.02 | 22.73 | 22.80 | 21.69 | 21.55 | 21.57 |
| | | 25 | 0 | 22.92 | 22.77 | 22.68 | 21.63 | 21.48 | 21.48 |
| | 256QAM | 1 | 0 | 21.03 | 20.86 | 20.85 | 19.71 | 19.62 | 19.69 |
| | | 1 | 12 | **21.11** | 20.96 | 21.01 | 19.70 | 19.67 | **19.80** |
| | | 1 | 24 | 21.07 | 20.91 | 20.86 | 19.68 | 19.64 | 19.69 |
| | | 12 | 0 | 20.81 | 20.72 | 20.70 | 19.54 | 19.50 | 19.51 |
| | | 12 | 6 | 20.95 | 20.77 | 20.76 | 19.64 | 19.51 | 19.60 |
| | | 12 | 11 | 20.89 | 20.72 | 20.73 | 19.62 | 19.56 | 19.56 |
| | | 25 | 0 | 20.93 | 20.74 | 20.67 | 19.59 | 19.50 | 19.53 |

## OUTPUT POWER FOR LTE BAND 26 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 26840 | 26915 | 26990 | 26840 | 26915 | 26990 |
| | | | | 829.0 | 836.5 | 844.0 | 829.0 | 836.5 | 844.0 |
| 10.0 | QPSK | 1 | 0 | 25.68 | 25.54 | 25.53 | 24.68 | 24.60 | 24.65 |
| | | 1 | 24 | **25.70** | 25.53 | 25.54 | **24.70** | 24.59 | 24.66 |
| | | 1 | 49 | 25.64 | 25.50 | 25.49 | 24.64 | 24.59 | 24.60 |
| | | 25 | 0 | 24.96 | 24.80 | 24.82 | 23.65 | 23.59 | 23.59 |
| | | 25 | 12 | 25.03 | 24.86 | 24.79 | 23.71 | 23.60 | 23.60 |
| | | 25 | 24 | 25.01 | 24.84 | 24.85 | 23.71 | 23.65 | 23.67 |
| | | 50 | 0 | 25.03 | 24.85 | 24.80 | 23.72 | 23.58 | 23.59 |
| | 16QAM | 1 | 0 | **25.31** | 25.20 | 25.28 | 23.99 | 24.05 | **24.06** |
| | | 1 | 24 | 25.24 | 25.14 | 25.18 | 23.96 | 23.89 | 23.94 |
| | | 1 | 49 | 25.28 | 25.23 | 25.22 | 24.00 | **24.06** | **24.06** |
| | | 25 | 0 | 24.04 | 23.83 | 23.84 | 22.65 | 22.63 | 22.62 |
| | | 25 | 12 | 24.07 | 23.88 | 23.83 | 22.72 | 22.63 | 22.61 |
| | | 25 | 24 | 24.09 | 23.87 | 23.90 | 22.73 | 22.70 | 22.70 |
| | | 50 | 0 | 24.04 | 23.87 | 23.81 | 22.75 | 22.60 | 22.60 |
| | 64QAM | 1 | 0 | 24.17 | 24.12 | 24.06 | 22.95 | 22.93 | **22.96** |
| | | 1 | 24 | **24.19** | 24.13 | 24.04 | 22.89 | 22.92 | 22.94 |
| | | 1 | 49 | 24.12 | 24.08 | 24.00 | 22.94 | 22.89 | 22.94 |
| | | 25 | 0 | 22.97 | 22.84 | 22.81 | 21.67 | 21.61 | 21.62 |
| | | 25 | 12 | 23.01 | 22.88 | 22.82 | 21.73 | 21.60 | 21.61 |
| | | 25 | 24 | 23.00 | 22.86 | 22.87 | 21.71 | 21.67 | 21.68 |
| | | 50 | 0 | 23.00 | 22.91 | 22.82 | 21.72 | 21.61 | 21.62 |
| | 256QAM | 1 | 0 | 21.04 | 20.90 | 20.91 | 19.81 | 19.67 | 19.67 |
| | | 1 | 24 | **21.08** | 20.96 | 20.98 | **19.85** | 19.69 | 19.75 |
| | | 1 | 49 | 21.04 | 20.89 | 20.90 | 19.79 | 19.72 | 19.69 |
| | | 25 | 0 | 20.94 | 20.80 | 20.81 | 19.66 | 19.60 | 19.62 |
| | | 25 | 12 | 21.02 | 20.89 | 20.80 | 19.73 | 19.61 | 19.61 |
| | | 25 | 24 | 20.98 | 20.85 | 20.88 | 19.75 | 19.67 | 19.65 |
| | | 50 | 0 | 21.00 | 20.86 | 20.78 | 19.73 | 19.59 | 19.60 |

## 5G NR n26

| Test Engineer ID: | | Test Date: | 4/20/2022 |
|---|---|---|---|

## OUTPUT POWER FOR 5G NR n26 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 165300 | 167300 | 169300 | 165300 | 167300 | 169300 |
| | | | | 826.5 | 836.5 | 846.5 | 826.5 | 836.5 | 846.5 |
| 5.0 | BPSK | 1 | 0 | 25.03 | 25.14 | 25.21 | 24.47 | 24.47 | 24.52 |
| | | 1 | 1 | 25.52 | 25.49 | **25.70** | 24.62 | 24.52 | **24.70** |
| | | 1 | 23 | 25.57 | 25.60 | 25.66 | 24.60 | 24.61 | 24.12 |
| | | 1 | 24 | 25.11 | 25.07 | 25.09 | 24.37 | 24.52 | 23.63 |
| | | 12 | 6 | 25.60 | 25.63 | 25.68 | 24.65 | 24.64 | 24.67 |
| | | 25 | 0 | 24.97 | 25.04 | 25.05 | 24.36 | 24.39 | 24.39 |
| | QPSK | 1 | 0 | 24.49 | 24.54 | 24.62 | 23.93 | 23.89 | 24.00 |
| | | 1 | 1 | 25.58 | 25.53 | 25.63 | 24.66 | 24.58 | **24.73** |
| | | 1 | 23 | 25.63 | **25.65** | 25.06 | 24.64 | 24.65 | 23.32 |
| | | 1 | 24 | 24.55 | 24.60 | 24.06 | 23.94 | 23.95 | 22.37 |
| | | 12 | 6 | 25.53 | 25.64 | 25.59 | 24.64 | 24.69 | 24.70 |
| | | 25 | 0 | 24.54 | 24.62 | 24.61 | 23.93 | 23.98 | 24.00 |
| | 16QAM | 1 | 0 | 23.35 | 23.76 | 23.96 | 23.18 | 23.12 | 23.28 |
| | | 1 | 1 | 24.46 | 24.76 | **24.94** | 24.18 | 24.12 | **24.25** |
| | | 1 | 23 | 24.42 | 24.82 | 24.64 | 24.11 | 24.17 | 23.18 |
| | | 1 | 24 | 23.40 | 23.77 | 23.60 | 23.12 | 23.17 | 22.23 |
| | | 12 | 6 | 24.47 | 24.61 | 24.71 | 23.90 | 23.87 | 23.94 |
| | | 25 | 0 | 23.43 | 23.51 | 23.69 | 22.87 | 22.94 | 22.91 |
| | 64QAM | 1 | 0 | 23.16 | 23.17 | 23.33 | 22.56 | 22.51 | 22.59 |
| | | 1 | 1 | 23.27 | 23.15 | **23.35** | 22.56 | 22.53 | **22.61** |
| | | 1 | 23 | 23.14 | 23.19 | 23.13 | 22.53 | 22.56 | 21.71 |
| | | 1 | 24 | 23.10 | 23.22 | 23.11 | 22.50 | 22.56 | 21.55 |
| | | 12 | 6 | 22.97 | 23.13 | 23.17 | 22.31 | 22.38 | 22.47 |
| | | 25 | 0 | 23.00 | 23.10 | 23.17 | 22.34 | 22.38 | 22.52 |
| | 256QAM | 1 | 0 | 21.12 | 20.99 | 21.16 | 20.36 | 20.27 | 20.50 |
| | | 1 | 1 | **21.19** | 21.12 | 21.12 | 20.26 | 20.23 | **20.52** |
| | | 1 | 23 | 21.02 | 20.96 | 21.14 | 20.26 | 20.32 | 20.12 |
| | | 1 | 24 | 21.03 | 21.04 | 21.16 | 20.18 | 20.33 | 20.05 |
| | | 12 | 6 | 21.03 | 21.07 | 21.16 | 20.24 | 20.25 | 20.50 |
| | | 25 | 0 | 20.95 | 21.09 | 21.09 | 20.24 | 20.28 | 20.39 |

## OUTPUT POWER FOR 5G NR n26 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 165800 | 167300 | 168800 | 165800 | 167300 | 168800 |
| | | | | 829.0 | 836.5 | 844.0 | 829.0 | 836.5 | 844.0 |
| 10.0 | BPSK | 1 | 0 | 25.12 | 25.06 | 25.14 | 24.43 | 24.17 | 24.44 |
| | | 1 | 1 | 25.57 | 25.63 | 25.67 | 24.61 | 24.48 | **24.70** |
| | | 1 | 50 | 25.60 | **25.70** | 25.65 | 24.61 | 24.62 | 24.14 |
| | | 1 | 51 | 25.06 | 25.19 | 25.06 | 24.48 | 24.47 | 23.65 |
| | | 25 | 12 | 25.50 | 25.60 | 25.59 | 24.56 | 24.64 | 24.63 |
| | | 50 | 0 | 25.06 | 25.15 | 25.13 | 24.40 | 24.47 | 24.45 |
| | QPSK | 1 | 0 | 24.55 | 24.68 | 24.61 | 23.99 | 23.92 | 23.93 |
| | | 1 | 1 | 25.54 | 25.64 | 25.61 | 24.67 | 24.52 | 24.65 |
| | | 1 | 50 | 25.58 | **25.70** | 25.27 | 24.68 | **24.73** | 23.54 |
| | | 1 | 51 | 24.61 | 24.69 | 24.26 | 23.96 | 24.04 | 22.55 |
| | | 25 | 12 | 25.57 | 25.66 | 25.68 | 24.61 | 24.70 | 24.72 |
| | | 50 | 0 | 24.58 | 24.67 | 24.61 | 23.91 | 23.97 | 24.02 |
| | 16QAM | 1 | 0 | 23.74 | 23.81 | 23.81 | 23.17 | 23.00 | 23.23 |
| | | 1 | 1 | 24.76 | 24.87 | 24.91 | **24.26** | 24.03 | 24.21 |
| | | 1 | 50 | 24.84 | **24.96** | 24.63 | 24.13 | **24.26** | 23.05 |
| | | 1 | 51 | 23.83 | 23.91 | 23.59 | 23.14 | 23.22 | 22.03 |
| | | 25 | 12 | 24.50 | 24.60 | 24.64 | 23.55 | 23.85 | 24.00 |
| | | 50 | 0 | 23.48 | 23.70 | 23.62 | 22.72 | 22.84 | 22.92 |
| | 64QAM | 1 | 0 | 23.07 | 23.12 | 23.33 | 22.38 | 22.36 | 22.54 |
| | | 1 | 1 | 23.31 | 23.26 | 23.12 | 22.39 | 22.40 | 22.55 |
| | | 1 | 50 | 23.26 | **23.38** | 23.22 | 22.39 | **22.63** | 21.84 |
| | | 1 | 51 | 23.03 | 23.17 | 23.14 | 22.41 | 22.54 | 21.63 |
| | | 25 | 12 | 23.07 | 23.16 | 23.11 | 22.13 | 22.39 | 22.46 |
| | | 50 | 0 | 23.03 | 23.09 | 23.06 | 22.18 | 22.35 | 22.46 |
| | 256QAM | 1 | 0 | 21.01 | 20.97 | 21.14 | 20.10 | 20.32 | **20.46** |
| | | 1 | 1 | 21.05 | 20.97 | 21.11 | 20.23 | 20.24 | 20.41 |
| | | 1 | 50 | 20.99 | 21.12 | 21.09 | 20.12 | 20.34 | 20.21 |
| | | 1 | 51 | 21.00 | 21.01 | 21.06 | 20.14 | 20.22 | 20.08 |
| | | 25 | 12 | 21.00 | 21.13 | **21.17** | 20.20 | 20.35 | **20.46** |
| | | 50 | 0 | 20.96 | 21.06 | 21.09 | 20.21 | 20.29 | 20.43 |

# 8.2. LTE BAND 30 AND 5G NR n30

## LTE BAND 30

**Test Engineer ID:** 39004 **Test Date:** 4/22/2022

## OUTPUT POWER FOR LTE BAND 30 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 27685 | 27710 | 27735 | 27685 | 27710 | 27735 | 27685 | 27710 | 27735 | 27685 | 27710 | 27735 |
| | | | | 2307.5 | 2310.0 | 2312.5 | 2307.5 | 2310.0 | 2312.5 | 2307.5 | 2310.0 | 2312.5 | 2307.5 | 2310.0 | 2312.5 |
| 5.0 | QPSK | 1 | 0 | 25.52 | 25.52 | 25.58 | 23.06 | 23.10 | 23.08 | 23.50 | 23.49 | 23.47 | 23.17 | 23.12 | 23.12 |
| | | 1 | 12 | 25.64 | 25.68 | **25.70** | 23.14 | **23.20** | 23.18 | 23.59 | 23.59 | **23.60** | 22.56 | **23.20** | 23.15 |
| | | 1 | 24 | 25.56 | 25.58 | 25.60 | 23.07 | 23.10 | 23.11 | 23.50 | 23.48 | 23.48 | 23.13 | 23.07 | 23.10 |
| | | 12 | 0 | 25.43 | 25.50 | 25.55 | 22.74 | 22.79 | 22.71 | 22.41 | 22.46 | 22.43 | 22.78 | 22.80 | 22.80 |
| | | 12 | 6 | 25.58 | 25.64 | 25.62 | 22.74 | 22.83 | 22.75 | 22.44 | 22.56 | 22.57 | 22.77 | 22.83 | 22.87 |
| | | 12 | 11 | 25.55 | 25.60 | 25.59 | 22.70 | 22.79 | 22.80 | 22.47 | 22.49 | 22.50 | 22.73 | 22.79 | 22.83 |
| | | 25 | 0 | 25.52 | 25.58 | 25.59 | 22.69 | 22.78 | 22.71 | 22.41 | 22.52 | 22.51 | 22.71 | 22.82 | 22.82 |
| | 16QAM | 1 | 0 | 25.19 | 25.17 | 25.25 | 23.10 | 23.14 | 23.09 | 22.84 | 22.94 | 22.87 | 23.17 | 23.18 | 22.54 |
| | | 1 | 12 | 25.36 | 25.34 | **25.37** | 22.57 | 22.53 | 22.61 | 22.96 | 23.05 | 22.96 | **23.19** | 22.61 | 22.64 |
| | | 1 | 24 | 25.25 | 25.25 | 25.25 | 23.11 | 23.15 | **23.17** | 22.84 | 22.93 | 22.92 | 23.14 | 23.15 | 22.54 |
| | | 12 | 0 | 24.44 | 24.59 | 24.64 | 21.87 | 21.92 | 21.77 | 23.55 | 21.55 | **23.59** | 21.78 | 21.82 | 21.93 |
| | | 12 | 6 | 24.58 | 24.71 | 24.68 | 21.83 | 21.98 | 21.84 | 21.50 | 21.66 | 21.63 | 21.76 | 21.86 | 21.96 |
| | | 12 | 11 | 24.54 | 24.69 | 24.65 | 21.81 | 21.95 | 21.89 | 21.53 | 21.62 | 21.54 | 21.73 | 21.79 | 21.93 |
| | | 25 | 0 | 24.56 | 24.59 | 24.61 | 21.73 | 21.76 | 21.77 | 23.55 | 21.55 | 21.55 | 21.76 | 21.84 | 21.86 |
| | 64QAM | 1 | 0 | 24.83 | 24.81 | 24.92 | 22.08 | 22.15 | 22.06 | 21.77 | 21.69 | 21.79 | 21.45 | 21.46 | 21.45 |
| | | 1 | 12 | 24.88 | 24.94 | 24.92 | 22.16 | 22.15 | **22.17** | 21.84 | 21.73 | 21.78 | **21.48** | 21.40 | 21.42 |
| | | 1 | 24 | 24.87 | 24.93 | **24.95** | 22.10 | 22.15 | 22.12 | 21.75 | 21.68 | 21.82 | 21.41 | 21.36 | 21.41 |
| | | 12 | 0 | 23.47 | 23.59 | 23.67 | 20.76 | 20.94 | 20.79 | 22.58 | 21.69 | 21.75 | 20.08 | 21.39 | 21.46 |
| | | 12 | 6 | 23.62 | 23.72 | 23.74 | 20.73 | 20.98 | 20.84 | **22.70** | 21.66 | 21.77 | 20.06 | 21.43 | 21.45 |
| | | 12 | 11 | 23.59 | 23.68 | 23.69 | 20.70 | 20.95 | 20.90 | 22.60 | 21.69 | 21.81 | 20.00 | 21.33 | 21.42 |
| | | 25 | 0 | 23.55 | 23.57 | 23.61 | 20.73 | 20.81 | 20.75 | 22.64 | 21.66 | 21.76 | 20.07 | 21.36 | 21.45 |
| | 256QAM | 1 | 0 | 21.48 | 21.53 | 21.63 | 18.89 | 18.86 | 18.85 | 20.76 | 20.67 | 20.62 | 18.27 | 18.20 | 18.19 |
| | | 1 | 12 | 21.69 | 21.68 | **21.72** | **19.02** | 18.99 | 19.00 | **20.94** | 20.82 | 20.91 | **18.42** | 18.37 | 18.27 |
| | | 1 | 24 | 21.61 | 21.62 | 21.64 | 18.86 | 18.85 | 18.93 | 20.71 | 20.64 | 20.65 | 18.19 | 18.25 | 18.18 |
| | | 12 | 0 | 21.45 | 21.50 | 21.58 | 18.78 | 18.79 | 18.72 | 20.57 | 20.60 | 20.56 | 18.14 | 18.16 | 18.13 |
| | | 12 | 6 | 21.56 | 21.63 | 21.65 | 18.74 | 18.84 | 18.79 | 20.70 | 20.67 | 20.58 | 18.11 | 18.19 | 18.15 |
| | | 12 | 11 | 21.54 | 21.55 | 21.59 | 18.70 | 18.80 | 18.79 | 20.66 | 20.65 | 20.64 | 18.08 | 18.13 | 18.13 |
| | | 25 | 0 | 21.52 | 21.58 | 21.57 | 18.71 | 18.78 | 18.71 | 20.68 | 20.61 | 20.52 | 18.08 | 18.12 | 18.13 |

## OUTPUT POWER FOR LTE BAND 30 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | N/A | 27710 | N/A | N/A | 27710 | N/A | N/A | 27710 | N/A | N/A | 27710 | N/A |
| | | | | N/A | 2310.0 | N/A | N/A | 2310.0 | N/A | N/A | 2310.0 | N/A | N/A | 2310.0 | N/A |
| 10.0 | QPSK | 1 | 0 | | 25.59 | | | **23.20** | | | 23.59 | | | 23.19 | |
| | | 1 | 24 | | **25.70** | | | 23.19 | | | **23.60** | | | **23.20** | |
| | | 1 | 49 | | 25.67 | | | 23.19 | | | 23.53 | | | 23.15 | |
| | | 25 | 0 | | 25.58 | | | 22.87 | | | 22.56 | | | 22.88 | |
| | | 25 | 12 | | 25.68 | | | 22.92 | | | 22.62 | | | 22.90 | |
| | | 25 | 24 | | 25.66 | | | 22.88 | | | 22.56 | | | 22.85 | |
| | | 50 | 0 | | 25.58 | | | 22.88 | | | 22.57 | | | 22.86 | |
| | 16QAM | 1 | 0 | | 25.27 | | | **22.54** | | | **22.98** | | | 22.59 | |
| | | 1 | 24 | | 25.24 | | | 22.53 | | | 22.96 | | | **23.14** | |
| | | 1 | 49 | | **25.34** | | | 22.52 | | | 22.87 | | | **23.14** | |
| | | 25 | 0 | | 24.59 | | | 21.91 | | | 21.59 | | | 21.90 | |
| | | 25 | 12 | | 24.70 | | | 21.94 | | | 21.67 | | | 21.91 | |
| | | 25 | 24 | | 24.69 | | | 21.92 | | | 21.61 | | | 21.86 | |
| | | 50 | 0 | | 24.61 | | | 21.91 | | | 21.60 | | | 21.86 | |
| | 64QAM | 1 | 0 | | 24.91 | | | 22.18 | | | 21.72 | | | **21.50** | |
| | | 1 | 24 | | **24.99** | | | 22.19 | | | 21.73 | | | 21.48 | |
| | | 1 | 49 | | 24.98 | | | **22.22** | | | 21.69 | | | 21.46 | |
| | | 25 | 0 | | 23.58 | | | 20.91 | | | 22.65 | | | 20.20 | |
| | | 25 | 12 | | 23.70 | | | 20.92 | | | **22.74** | | | 20.23 | |
| | | 25 | 24 | | 23.69 | | | 20.91 | | | 22.68 | | | 20.19 | |
| | | 50 | 0 | | 23.62 | | | 20.88 | | | 22.67 | | | 20.19 | |
| | 256QAM | 1 | 0 | | 21.70 | | | 18.90 | | | 20.76 | | | 18.35 | |
| | | 1 | 24 | | **21.91** | | | **19.04** | | | **20.90** | | | **18.42** | |
| | | 1 | 49 | | 21.78 | | | 18.96 | | | 20.72 | | | 18.28 | |
| | | 25 | 0 | | 21.57 | | | 18.88 | | | 20.66 | | | 18.17 | |
| | | 25 | 12 | | 21.70 | | | 18.93 | | | 20.75 | | | 18.19 | |
| | | 25 | 24 | | 21.68 | | | 18.90 | | | 20.68 | | | 18.15 | |
| | | 50 | 0 | | 21.58 | | | 18.88 | | | 20.71 | | | 18.15 | |

## 5G NR n30

**Test Engineer ID:** 27957 **Test Date:** 4/22/2022

## OUTPUT POWER FOR 5G NR n30 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 501200 | 518600 | 536000 | 501200 | 518600 | 536000 | 501200 | 518600 | 536000 | 501200 | 518600 | 536000 |
| | | | | 2307.5 | 2310.0 | 2312.5 | 2307.5 | 2310.0 | 2312.5 | 2307.5 | 2310.0 | 2312.5 | 2307.5 | 2310.0 | 2312.5 |
| 5.0 | BPSK | 1 | 0 | 25.15 | 25.08 | 25.10 | 22.67 | 22.99 | 22.91 | 23.42 | 23.30 | 23.38 | 23.03 | 22.95 | 22.97 |
| | | 1 | 1 | 25.62 | 25.64 | 25.64 | 23.03 | 23.14 | 23.09 | 23.53 | 23.48 | **23.60** | 23.19 | **23.20** | **23.20** |
| | | 1 | 23 | 25.64 | 25.61 | 25.66 | 22.98 | 23.15 | 23.06 | 23.51 | 23.49 | **23.60** | **23.20** | 23.17 | 23.11 |
| | | 1 | 24 | 25.14 | 25.14 | 25.11 | 22.75 | 22.83 | 22.83 | 23.42 | 23.30 | 23.41 | 22.99 | 22.87 | 22.90 |
| | | 12 | 6 | **25.70** | **25.70** | 25.68 | 23.05 | **23.19** | 23.17 | **23.60** | **23.60** | 23.59 | 23.16 | 23.19 | 23.17 |
| | | 25 | 0 | 25.09 | 25.09 | 25.10 | 22.71 | 22.85 | 22.83 | 23.24 | 23.26 | 23.28 | 22.88 | 22.87 | 22.88 |
| | QPSK | 1 | 0 | 25.39 | 25.34 | 25.39 | 23.15 | 23.09 | 23.13 | 22.82 | 22.79 | 22.85 | 22.52 | 23.15 | 23.13 |
| | | 1 | 1 | 25.65 | 25.64 | 25.68 | 23.13 | 23.09 | 23.15 | 23.54 | 23.44 | 23.54 | 23.17 | 23.12 | 23.16 |
| | | 1 | 23 | 25.64 | 25.64 | 25.68 | **23.20** | 23.12 | 23.17 | 23.51 | 23.44 | **23.58** | 23.12 | 23.17 | 23.16 |
| | | 1 | 24 | 25.36 | 25.37 | 25.43 | 23.13 | 23.09 | 23.12 | 22.90 | 22.76 | 22.84 | 23.13 | 22.50 | 23.14 |
| | | 12 | 6 | 25.69 | 25.68 | **25.70** | 23.14 | **23.20** | **23.20** | 23.53 | 23.47 | 23.52 | 23.10 | 23.17 | **23.19** |
| | | 25 | 0 | 25.39 | 25.33 | 25.38 | 23.09 | 23.04 | 23.12 | 22.78 | 22.74 | 22.80 | 23.11 | 23.16 | 23.15 |
| | 16QAM | 1 | 0 | 24.56 | 24.55 | 24.56 | 22.00 | 22.24 | 22.35 | 21.86 | 21.83 | 22.07 | 22.33 | 22.38 | 22.33 |
| | | 1 | 1 | 25.59 | 25.54 | **25.65** | 22.87 | 22.63 | 22.55 | 22.90 | 22.86 | 23.05 | 22.60 | 22.58 | 22.64 |
| | | 1 | 23 | 25.58 | 25.59 | 25.59 | 23.03 | 22.50 | 22.63 | **23.08** | 22.99 | 23.01 | 22.60 | 22.69 | 22.65 |
| | | 1 | 24 | 24.63 | 24.50 | 24.53 | 21.94 | 22.28 | 22.37 | 22.17 | 22.13 | 22.05 | 22.29 | 22.34 | 22.33 |
| | | 12 | 6 | 25.38 | 25.35 | 25.35 | 23.08 | 23.08 | **23.12** | 22.85 | 22.93 | 22.83 | **23.17** | 23.15 | 23.13 |
| | | 25 | 0 | 24.31 | 24.29 | 24.26 | 22.07 | 22.05 | 22.03 | 21.81 | 21.91 | 21.75 | 22.15 | 22.10 | 22.15 |
| | 64QAM | 1 | 0 | 23.97 | **24.04** | 23.92 | 21.74 | 21.69 | 21.73 | 21.56 | 23.56 | 23.52 | 21.86 | 21.83 | 21.87 |
| | | 1 | 1 | 23.97 | 23.98 | 23.83 | 21.77 | 21.66 | 21.76 | 21.61 | 21.55 | 23.56 | 21.85 | 21.81 | **21.89** |
| | | 1 | 23 | 23.95 | 23.93 | 23.98 | **21.80** | 21.64 | 21.66 | **23.58** | 21.59 | 21.55 | 21.74 | 21.74 | **21.89** |
| | | 1 | 24 | 23.97 | 24.00 | 23.97 | 21.71 | 21.71 | 21.66 | 21.55 | 21.56 | 21.55 | 21.82 | 21.80 | 21.88 |
| | | 12 | 6 | 23.75 | 23.74 | 23.77 | 21.60 | 21.60 | 21.68 | **23.58** | 23.56 | 23.42 | 21.64 | 21.76 | 21.75 |
| | | 25 | 0 | 23.74 | 23.77 | 23.77 | 21.47 | 21.45 | 21.63 | 23.48 | 23.54 | 23.39 | 21.70 | 21.72 | 21.74 |
| | 256QAM | 1 | 0 | 21.67 | 21.74 | 21.78 | 19.44 | 19.35 | 19.54 | 21.45 | 21.40 | 21.38 | 19.63 | 19.64 | 19.66 |
| | | 1 | 1 | 21.73 | 21.70 | 21.81 | 19.55 | **19.57** | 19.49 | 21.42 | 21.45 | 21.36 | 19.59 | 19.58 | 19.67 |
| | | 1 | 23 | 21.78 | 21.75 | 21.77 | 19.42 | 19.50 | 19.40 | 21.50 | 21.47 | 21.38 | 19.51 | 19.61 | 19.67 |
| | | 1 | 24 | 21.69 | 21.63 | **21.85** | 19.48 | 19.32 | 19.43 | 21.40 | 21.41 | 21.29 | 19.60 | 19.64 | 19.61 |
| | | 12 | 6 | 21.80 | 21.68 | 21.77 | 19.51 | 19.49 | 19.46 | 21.52 | **21.54** | 21.37 | 19.64 | 19.68 | **19.71** |
| | | 25 | 0 | 21.78 | 21.70 | 21.76 | 19.39 | 19.43 | 19.49 | 21.43 | 21.53 | 21.38 | 19.58 | 19.61 | 19.63 |

## OUTPUT POWER FOR 5G NR n30 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | N/A | 518600 | N/A | N/A | 518600 | N/A | N/A | 518600 | N/A | N/A | 518600 | N/A |
| | | | | N/A | 2310.0 | N/A | N/A | 2310.0 | N/A | N/A | 2310.0 | N/A | N/A | 2310.0 | N/A |
| 10.0 | BPSK | 1 | 0 | | 25.15 | | | 22.95 | | | 23.20 | | | 23.06 | |
| | | 1 | 1 | | 25.64 | | | 23.15 | | | 23.44 | | | **23.16** | |
| | | 1 | 50 | | **25.70** | | | **23.18** | | | **23.53** | | | 23.09 | |
| | | 1 | 51 | | 25.20 | | | 22.93 | | | 23.36 | | | 22.91 | |
| | | 25 | 12 | | 25.57 | | | 23.09 | | | 23.42 | | | 23.06 | |
| | | 50 | 0 | | 25.15 | | | 22.86 | | | 23.28 | | | 22.87 | |
| | QPSK | 1 | 0 | | 25.36 | | | 23.17 | | | 22.80 | | | 23.10 | |
| | | 1 | 1 | | **25.70** | | | 23.17 | | | 23.53 | | | 23.16 | |
| | | 1 | 50 | | 25.44 | | | **23.20** | | | **23.60** | | | **23.20** | |
| | | 1 | 51 | | 25.10 | | | 23.19 | | | 22.92 | | | 22.91 | |
| | | 25 | 12 | | 25.64 | | | 23.12 | | | 23.48 | | | 23.14 | |
| | | 50 | 0 | | 25.32 | | | 23.12 | | | 22.78 | | | 23.09 | |
| | 16QAM | 1 | 0 | | 24.54 | | | 22.34 | | | 21.73 | | | 22.35 | |
| | | 1 | 1 | | 25.55 | | | 22.73 | | | 22.63 | | | 22.69 | |
| | | 1 | 50 | | **25.63** | | | 22.71 | | | **22.78** | | | 22.71 | |
| | | 1 | 51 | | 24.63 | | | 22.34 | | | 21.67 | | | 22.42 | |
| | | 25 | 12 | | 25.28 | | | **23.04** | | | 22.71 | | | **23.16** | |
| | | 50 | 0 | | 24.26 | | | 22.02 | | | 21.74 | | | 22.16 | |
| | 64QAM | 1 | 0 | | 23.93 | | | 21.73 | | | 23.53 | | | 21.88 | |
| | | 1 | 1 | | 23.97 | | | 21.71 | | | 23.54 | | | 21.80 | |
| | | 1 | 50 | | 23.92 | | | **21.74** | | | 21.57 | | | **21.92** | |
| | | 1 | 51 | | **23.98** | | | 21.72 | | | **23.59** | | | 21.88 | |
| | | 25 | 12 | | 23.73 | | | 21.52 | | | 23.35 | | | 21.65 | |
| | | 50 | 0 | | 23.74 | | | 21.46 | | | 23.35 | | | 21.59 | |
| | 256QAM | 1 | 0 | | 21.70 | | | **19.45** | | | 21.32 | | | 19.59 | |
| | | 1 | 1 | | 21.59 | | | 19.40 | | | 21.34 | | | **19.66** | |
| | | 1 | 50 | | **21.74** | | | 19.42 | | | **21.39** | | | 19.57 | |
| | | 1 | 51 | | 21.62 | | | 19.40 | | | 21.32 | | | 19.56 | |
| | | 25 | 12 | | 21.71 | | | 19.40 | | | 21.28 | | | 19.56 | |
| | | 50 | 0 | | 21.70 | | | 19.40 | | | 21.28 | | | 19.60 | |

# 8.3. LTE BAND 41 AND 5G NR n41

## LTE BAND 41

**Test Engineer ID:** 39004 **Test Date:** 4/22/2022

## OUTPUT POWER FOR LTE BAND 41 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 39675 | 40620 | 41565 | 39675 | 40620 | 41565 | 39675 | 40620 | 41565 | 39675 | 40620 | 41565 |
| | | | | 2498.5 | 2593.0 | 2687.5 | 2498.5 | 2593.0 | 2687.5 | 2498.5 | 2593.0 | 2687.5 | 2498.5 | 2593.0 | 2687.5 |
| 5.0 | QPSK | 1 | 0 | 24.28 | 28.42 | 28.43 | 26.36 | 28.02 | 27.97 | 23.33 | 27.93 | 27.20 | 25.61 | 27.09 | 26.98 |
| | | 1 | 12 | 28.32 | 28.53 | 28.55 | 28.16 | 28.11 | 28.05 | 27.75 | **28.00** | 27.30 | **27.22** | 27.18 | 27.02 |
| | | 1 | 24 | **28.70** | 28.49 | 28.50 | 28.05 | 28.10 | 28.01 | 27.83 | 27.98 | 27.30 | **27.22** | 27.15 | 27.01 |
| | | 12 | 0 | 27.75 | 28.57 | 27.55 | 25.37 | **28.17** | 28.08 | 26.50 | 27.29 | 26.28 | 24.68 | 27.11 | 27.07 |
| | | 12 | 6 | 27.79 | 28.61 | 27.60 | 25.39 | 28.15 | 28.10 | 26.71 | 27.34 | 26.35 | 24.75 | 27.18 | 27.04 |
| | | 12 | 11 | 27.69 | 28.56 | 27.60 | 28.06 | 28.12 | 28.03 | 26.73 | 27.32 | 26.33 | 27.12 | 27.13 | 27.05 |
| | | 25 | 0 | 27.68 | 28.54 | 27.56 | 25.28 | 28.11 | 28.08 | 26.61 | 27.30 | 26.31 | 24.65 | 27.13 | 27.03 |
| | 16QAM | 1 | 0 | 23.09 | **28.57** | 27.72 | 25.78 | 28.62 | 28.57 | 26.65 | 27.70 | 26.57 | 24.93 | 27.58 | 27.53 |
| | | 1 | 12 | 28.14 | 28.40 | 27.85 | **28.70** | 28.67 | **28.70** | 27.05 | **27.87** | 26.64 | **27.70** | **27.70** | **27.70** |
| | | 1 | 24 | 28.04 | 28.53 | 27.82 | 28.62 | **28.70** | 28.65 | 27.16 | 27.78 | 26.69 | 27.68 | **27.70** | 27.59 |
| | | 12 | 0 | 26.83 | 27.51 | 26.61 | 24.41 | 28.16 | 27.40 | 25.61 | 26.36 | 25.42 | 23.75 | 27.21 | 26.76 |
| | | 12 | 6 | 26.84 | 27.56 | 26.63 | 24.47 | 28.16 | 27.46 | 25.80 | 26.41 | 25.46 | 23.87 | 27.19 | 26.70 |
| | | 12 | 11 | 26.73 | 27.52 | 26.60 | 27.27 | 28.18 | 27.38 | 25.80 | 26.40 | 25.44 | 26.77 | 27.24 | 26.68 |
| | | 25 | 0 | 26.67 | 27.55 | 26.58 | 24.29 | 28.21 | 27.34 | 25.61 | 26.37 | 25.34 | 23.69 | 27.16 | 26.62 |
| | 64QAM | 1 | 0 | 21.99 | 27.77 | 26.75 | 24.64 | 28.33 | 27.57 | 22.60 | 26.49 | 25.63 | 23.90 | 27.36 | 26.98 |
| | | 1 | 12 | 27.05 | 27.81 | 26.83 | 27.75 | **28.42** | 27.74 | 22.62 | 26.48 | 25.69 | 27.05 | **27.50** | 26.94 |
| | | 1 | 24 | 26.96 | **27.82** | 26.80 | 27.67 | 28.38 | 27.61 | 22.61 | 26.47 | 25.65 | 27.03 | 27.42 | 26.89 |
| | | 12 | 0 | 22.78 | 26.72 | 25.62 | 23.29 | 27.21 | 26.36 | 22.59 | 26.48 | 24.37 | 22.76 | 26.52 | 25.54 |
| | | 12 | 6 | 22.81 | 26.80 | 25.63 | 23.39 | 27.17 | 26.26 | 22.61 | 26.49 | 24.44 | 22.69 | 26.59 | 25.64 |
| | | 12 | 11 | 25.70 | 26.78 | 25.63 | 26.34 | 27.17 | 26.34 | 22.62 | **26.50** | 24.40 | 25.99 | 26.54 | 25.58 |
| | | 25 | 0 | 22.66 | 26.59 | 25.60 | 23.32 | 27.18 | 26.35 | 22.59 | 26.49 | 24.43 | 22.63 | 26.45 | 25.63 |
| | 256QAM | 1 | 0 | 20.81 | 24.66 | 23.62 | 21.37 | 25.15 | 24.42 | 19.54 | 23.44 | 22.43 | 20.71 | 24.46 | 23.79 |
| | | 1 | 12 | 23.89 | **24.79** | 23.72 | 24.57 | **25.35** | 24.47 | 23.00 | 23.56 | 22.54 | 23.82 | **24.63** | 23.69 |
| | | 1 | 24 | 23.83 | 24.63 | 23.64 | 24.39 | 25.18 | 24.38 | 23.08 | **23.58** | 22.45 | 23.90 | 24.58 | 23.81 |
| | | 12 | 0 | 20.75 | 24.53 | 23.61 | 21.37 | 25.17 | 24.34 | 19.60 | 23.38 | 22.39 | 20.72 | 24.46 | 23.61 |
| | | 12 | 6 | 20.79 | 24.57 | 23.64 | 21.41 | 25.22 | 24.34 | 19.78 | 23.42 | 22.44 | 20.76 | 24.44 | 23.69 |
| | | 12 | 11 | 23.69 | 24.55 | 23.61 | 24.33 | 25.16 | 24.32 | 22.81 | 23.38 | 22.41 | 23.71 | 24.42 | 23.64 |
| | | 25 | 0 | 20.66 | 24.55 | 23.61 | 21.29 | 25.13 | 24.33 | 19.67 | 23.42 | 22.40 | 20.64 | 24.43 | 23.67 |

## OUTPUT POWER FOR LTE BAND 41 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 39700 | 40620 | 41540 | 39700 | 40620 | 41540 | 39700 | 40620 | 41540 | 39700 | 40620 | 41540 |
| | | | | 2501.0 | 2593.0 | 2685.0 | 2501.0 | 2593.0 | 2685.0 | 2501.0 | 2593.0 | 2685.0 | 2501.0 | 2593.0 | 2685.0 |
| 10.0 | QPSK | 1 | 0 | 23.87 | 28.44 | 28.44 | 24.56 | 28.23 | 28.27 | 23.25 | 27.89 | 27.18 | 23.71 | 27.27 | 27.24 |
| | | 1 | 24 | **28.70** | 28.47 | 28.47 | 28.31 | 28.27 | 28.30 | 27.84 | **28.00** | 27.18 | 27.35 | 27.28 | 27.20 |
| | | 1 | 49 | 28.65 | 28.43 | 28.43 | 28.22 | 28.16 | 28.17 | 27.92 | 27.96 | 27.14 | 27.33 | 27.22 | 27.15 |
| | | 25 | 0 | 24.71 | 28.55 | 27.56 | 25.63 | 28.31 | 28.32 | 23.69 | 27.28 | 26.26 | 24.91 | 27.34 | 27.32 |
| | | 25 | 12 | 27.75 | 28.58 | 27.60 | **28.39** | 28.34 | 28.33 | 26.87 | 27.32 | 26.31 | 27.30 | 27.35 | 27.34 |
| | | 25 | 24 | 26.67 | 28.54 | 27.53 | 27.57 | 28.27 | 28.27 | 25.85 | 27.28 | 26.23 | 26.88 | 27.32 | **27.35** |
| | | 50 | 0 | 24.63 | 28.55 | 27.54 | 25.54 | 28.31 | 28.32 | 23.72 | 27.29 | 26.27 | 24.84 | 27.33 | 27.31 |
| | 16QAM | 1 | 0 | 23.08 | 27.77 | 27.79 | 23.95 | 28.68 | **28.70** | 22.62 | 27.52 | 26.49 | 23.07 | **27.70** | 27.68 |
| | | 1 | 24 | **28.10** | 27.76 | 27.76 | **28.70** | **28.70** | **28.70** | 27.21 | **27.68** | 26.57 | 27.66 | 27.63 | **27.70** |
| | | 1 | 49 | 28.02 | 27.74 | 27.71 | 28.61 | 28.60 | 28.68 | 27.36 | 27.59 | 26.44 | **27.70** | 27.56 | 27.55 |
| | | 25 | 0 | 23.73 | 27.59 | 26.52 | 24.65 | 28.36 | 27.62 | 22.73 | 26.34 | 25.29 | 23.86 | 27.39 | 26.92 |
| | | 25 | 12 | 26.79 | 27.65 | 26.56 | 27.74 | 28.39 | 27.62 | 25.92 | 26.40 | 25.38 | 26.88 | 27.45 | 26.92 |
| | | 25 | 24 | 25.69 | 27.59 | 26.51 | 26.62 | 28.28 | 27.54 | 24.91 | 26.32 | 25.30 | 25.94 | 27.41 | 26.89 |
| | | 50 | 0 | 23.66 | 27.58 | 26.55 | 24.55 | 28.38 | 27.56 | 22.74 | 26.33 | 25.31 | 23.84 | 27.36 | 26.87 |
| | 64QAM | 1 | 0 | 22.90 | 27.73 | 26.75 | 22.80 | 28.59 | 27.83 | 21.56 | **26.48** | 25.49 | 21.99 | 27.47 | 27.12 |
| | | 1 | 24 | 26.98 | **27.76** | 26.81 | 27.88 | **28.60** | 27.89 | 20.55 | 26.44 | 25.55 | 27.20 | **27.58** | 27.19 |
| | | 1 | 49 | 26.93 | 27.72 | 26.72 | 27.78 | 28.49 | 27.79 | 20.56 | **26.48** | 25.49 | 27.20 | 27.43 | 27.01 |
| | | 25 | 0 | 22.76 | 26.59 | 25.56 | 23.65 | 27.35 | 26.60 | 20.58 | 26.46 | 24.35 | 22.90 | 26.65 | 25.90 |
| | | 25 | 12 | 25.78 | 26.61 | 25.62 | 26.69 | 27.39 | 26.62 | 20.57 | 26.46 | 24.40 | 25.91 | 26.68 | 25.91 |
| | | 25 | 24 | 24.72 | 26.57 | 25.56 | 25.59 | 27.29 | 26.53 | 20.54 | 26.45 | 24.34 | 24.90 | 26.67 | 25.93 |
| | | 50 | 0 | 22.70 | 26.60 | 25.61 | 23.57 | 27.34 | 26.57 | 20.55 | 26.42 | 24.36 | 22.84 | 26.61 | 25.88 |
| | 256QAM | 1 | 0 | 19.86 | 24.61 | 23.62 | 19.64 | 25.32 | 24.60 | 19.40 | 23.41 | 22.41 | 18.78 | **24.75** | 24.00 |
| | | 1 | 24 | 23.92 | **24.68** | 23.70 | 24.67 | **25.38** | 24.71 | 23.00 | **23.51** | 22.48 | 23.99 | 24.63 | 23.89 |
| | | 1 | 49 | 23.77 | 24.57 | 23.57 | 24.62 | 25.23 | 24.44 | 23.02 | 23.43 | 22.36 | 23.90 | 24.58 | 23.82 |
| | | 25 | 0 | 20.76 | 24.53 | 23.55 | 21.62 | 25.37 | 24.60 | 19.75 | 23.32 | 22.34 | 20.87 | 24.61 | 23.89 |
| | | 25 | 12 | 23.81 | 24.58 | 23.61 | 24.69 | 25.35 | 24.62 | 22.97 | 23.41 | 22.40 | 23.89 | 24.60 | 23.94 |
| | | 25 | 24 | 22.70 | 24.53 | 23.54 | 23.61 | 25.32 | 24.54 | 21.93 | 23.34 | 22.32 | 22.94 | 24.62 | 23.91 |
| | | 50 | 0 | 20.67 | 24.54 | 23.60 | 21.56 | 25.35 | 24.61 | 19.79 | 23.36 | 22.37 | 20.82 | 24.61 | 23.91 |

## OUTPUT POWER FOR LTE BAND 41 (15.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 39725 | 40620 | 41515 | 39725 | 40620 | 41515 | 39725 | 40620 | 41515 | 39725 | 40620 | 41515 |
| | | | | 2503.5 | 2593.0 | 2682.5 | 2503.5 | 2593.0 | 2682.5 | 2503.5 | 2593.0 | 2682.5 | 2503.5 | 2593.0 | 2682.5 |
| 15.0 | QPSK | 1 | 0 | 23.71 | 28.27 | 28.33 | 24.53 | 28.16 | 28.25 | 22.29 | **28.00** | 27.19 | 23.68 | 27.26 | 27.22 |
| | | 1 | 37 | **28.70** | 28.28 | 28.37 | 28.27 | 28.10 | 28.23 | 27.85 | 27.97 | 27.20 | 27.25 | 27.24 | 27.13 |
| | | 1 | 74 | 28.64 | 28.29 | 28.36 | 28.27 | 28.10 | 28.25 | 27.85 | 27.91 | 27.29 | **27.70** | 27.29 | 27.13 |
| | | 36 | 0 | 23.77 | 28.36 | 27.39 | 24.64 | **28.70** | 28.32 | 22.75 | 27.31 | 26.29 | 23.80 | 27.33 | 27.27 |
| | | 36 | 16 | 27.74 | 28.38 | 27.42 | 28.36 | 28.16 | 28.31 | 26.95 | 27.34 | 26.32 | 27.29 | 27.33 | 27.23 |
| | | 36 | 35 | 24.70 | 28.31 | 27.36 | 25.58 | 28.10 | 28.24 | 23.95 | 27.28 | 26.26 | 24.84 | 27.31 | 27.24 |
| | | 75 | 0 | 23.69 | 28.36 | 27.39 | 24.57 | 28.17 | 28.34 | 22.91 | 27.31 | 26.30 | 23.79 | 27.30 | 27.23 |
| | 16QAM | 1 | 0 | 23.10 | 28.63 | 27.73 | 24.01 | 28.58 | **28.70** | 21.73 | **27.70** | 26.68 | 23.00 | 27.65 | **27.70** |
| | | 1 | 37 | 28.10 | 28.60 | 27.74 | **28.70** | 28.55 | 28.61 | 27.24 | 27.60 | 26.66 | 27.65 | 27.60 | 27.65 |
| | | 1 | 74 | 28.02 | **28.64** | 27.74 | 28.67 | 28.56 | 28.65 | 27.41 | 27.56 | 26.63 | **27.70** | 27.58 | 27.60 |
| | | 36 | 0 | 22.80 | 27.39 | 26.40 | 23.65 | 28.23 | 27.65 | 21.79 | 26.36 | 25.30 | 22.81 | 27.37 | 26.89 |
| | | 36 | 16 | 26.77 | 27.40 | 26.43 | 27.69 | 28.24 | 27.63 | 25.98 | 26.37 | 25.34 | 26.95 | 27.29 | 26.89 |
| | | 36 | 35 | 23.73 | 27.35 | 26.38 | 24.58 | 28.16 | 27.53 | 22.99 | 26.33 | 25.29 | 23.86 | 27.30 | 26.88 |
| | | 75 | 0 | 22.73 | 27.39 | 26.41 | 23.56 | 28.24 | 27.63 | 21.96 | 26.34 | 25.34 | 22.79 | 27.28 | 26.87 |
| | 64QAM | 1 | 0 | 21.95 | 27.65 | 26.78 | 22.84 | 28.00 | 28.03 | 20.77 | 26.62 | 25.78 | 21.90 | 27.00 | 27.35 |
| | | 1 | 37 | 27.10 | 27.61 | 26.72 | 27.85 | **28.45** | 27.80 | 20.56 | **26.74** | 25.57 | 27.09 | 27.00 | 27.25 |
| | | 1 | 74 | 26.89 | **27.70** | 26.66 | 27.74 | 28.37 | 27.68 | 20.52 | 26.56 | 25.60 | 27.32 | **27.44** | 27.22 |
| | | 36 | 0 | 21.81 | 26.37 | 25.40 | 22.64 | 27.24 | 26.65 | 20.62 | 26.67 | 24.33 | 21.79 | 26.66 | 25.90 |
| | | 36 | 16 | 25.78 | 26.38 | 25.43 | 26.68 | 27.23 | 26.62 | 20.61 | 26.58 | 24.33 | 25.94 | 26.65 | 25.89 |
| | | 36 | 35 | 22.73 | 26.33 | 25.37 | 23.58 | 27.17 | 26.54 | 20.64 | 26.65 | 24.30 | 22.85 | 26.65 | 25.85 |
| | | 75 | 0 | 21.74 | 26.36 | 25.42 | 22.59 | 27.24 | 26.62 | 20.71 | 26.54 | 24.32 | 21.79 | 26.61 | 25.87 |
| | 256QAM | 1 | 0 | 18.93 | 24.44 | 23.53 | 19.63 | 25.21 | 24.75 | 17.50 | **23.49** | 22.44 | 18.83 | **24.92** | 23.89 |
| | | 1 | 37 | 23.84 | **24.58** | 23.53 | 24.66 | 25.16 | 24.63 | 23.14 | 23.47 | 22.42 | 23.99 | 24.71 | 23.96 |
| | | 1 | 74 | 23.74 | 24.49 | 23.47 | 24.50 | **25.22** | 24.57 | 23.23 | 23.40 | 22.26 | 23.92 | 24.60 | 24.18 |
| | | 36 | 0 | 19.82 | 24.36 | 23.39 | 20.67 | 25.20 | 24.62 | 18.85 | 23.35 | 22.31 | 19.79 | 24.62 | 23.87 |
| | | 36 | 16 | 23.75 | 24.39 | 23.41 | 24.67 | 25.19 | 24.60 | 23.01 | 23.40 | 22.33 | 23.89 | 24.81 | 23.86 |
| | | 36 | 35 | 20.71 | 24.34 | 23.33 | 21.58 | 25.13 | 24.55 | 19.98 | 23.32 | 22.29 | 20.85 | 24.80 | 23.85 |
| | | 75 | 0 | 19.74 | 24.40 | 23.39 | 20.62 | 25.18 | 24.62 | 18.99 | 23.36 | 22.34 | 19.82 | 24.82 | 23.86 |

## OUTPUT POWER FOR LTE BAND 41 (20.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 39750 | 40620 | 41490 | 39750 | 40620 | 41490 | 39750 | 40620 | 41490 | 39750 | 40620 | 41490 |
| | | | | 2506.0 | 2593.0 | 2680.0 | 2506.0 | 2593.0 | 2680.0 | 2506.0 | 2593.0 | 2680.0 | 2506.0 | 2593.0 | 2680.0 |
| 20.0 | QPSK | 1 | 0 | 23.47 | 28.31 | 28.38 | 24.47 | 28.08 | **28.23** | 22.36 | **28.00** | 27.20 | 23.59 | 27.29 | **27.70** |
| | | 1 | 49 | 28.46 | 28.27 | 28.33 | 28.16 | 27.99 | 28.12 | 27.98 | 27.93 | 27.19 | 27.21 | 27.20 | 27.29 |
| | | 1 | 99 | 28.48 | **28.70** | 28.40 | 28.11 | 28.01 | 28.15 | 27.96 | 27.97 | 27.23 | 27.28 | 27.12 | 27.20 |
| | | 50 | 0 | 23.53 | 28.34 | 27.39 | 24.54 | 28.09 | 28.22 | 22.80 | 27.28 | 26.27 | 23.77 | 27.27 | 27.31 |
| | | 50 | 24 | 27.50 | 28.38 | 27.41 | 28.19 | 28.07 | 28.21 | 26.95 | 27.30 | 26.31 | 27.28 | 27.24 | 27.31 |
| | | 50 | 49 | 24.45 | 28.31 | 27.35 | 25.44 | 27.98 | 28.12 | 24.03 | 27.26 | 26.23 | 24.81 | 27.14 | 27.19 |
| | | 100 | 0 | 23.48 | 28.36 | 27.40 | 24.46 | 28.07 | 28.21 | 22.89 | 27.30 | 26.28 | 23.81 | 27.21 | 27.29 |
| | 16QAM | 1 | 0 | 22.85 | 28.40 | 27.69 | 23.81 | 28.56 | **28.70** | 21.70 | 27.69 | 26.64 | 22.91 | 27.63 | **27.70** |
| | | 1 | 49 | 27.92 | 28.25 | 27.97 | **28.70** | **28.70** | 28.58 | 27.43 | **27.89** | 27.14 | **27.70** | 27.60 | 27.64 |
| | | 1 | 99 | 27.81 | **28.44** | 27.81 | 28.67 | 28.55 | 28.55 | 27.37 | 27.70 | 26.61 | 27.63 | **27.70** | 27.59 |
| | | 50 | 0 | 22.54 | 27.34 | 26.43 | 23.54 | 28.13 | 27.50 | 21.80 | 26.29 | 25.31 | 22.77 | 27.23 | 26.91 |
| | | 50 | 24 | 26.52 | 27.38 | 26.44 | 27.51 | 28.12 | 27.53 | 25.95 | 26.32 | 25.34 | 26.98 | 27.23 | 26.91 |
| | | 50 | 49 | 23.47 | 27.35 | 26.36 | 24.44 | 28.03 | 27.40 | 23.05 | 26.27 | 25.26 | 23.93 | 27.13 | 26.83 |
| | | 100 | 0 | 22.46 | 27.34 | 26.41 | 23.40 | 28.13 | 27.48 | 21.89 | 26.31 | 25.32 | 22.89 | 27.20 | 26.91 |
| | 64QAM | 1 | 0 | 21.70 | 27.58 | 26.57 | 22.75 | 28.23 | 27.72 | 20.57 | 26.47 | 25.54 | 21.84 | 27.54 | 27.33 |
| | | 1 | 49 | 26.82 | **27.78** | 26.66 | 27.68 | 28.17 | 27.58 | 20.61 | 26.51 | 25.54 | 27.26 | 27.59 | 27.31 |
| | | 1 | 99 | 26.68 | 27.57 | 26.69 | 27.66 | **28.24** | 27.64 | 20.61 | 26.52 | 25.55 | 27.27 | **27.64** | 27.28 |
| | | 50 | 0 | 21.55 | 26.36 | 25.38 | 22.49 | 27.12 | 26.50 | 20.68 | 26.52 | 24.29 | 21.82 | 26.49 | 25.90 |
| | | 50 | 24 | 25.51 | 26.40 | 25.44 | 26.46 | 27.10 | 26.48 | 20.65 | **26.55** | 24.32 | 25.96 | 26.49 | 25.90 |
| | | 50 | 49 | 22.46 | 26.33 | 25.34 | 23.45 | 27.05 | 26.42 | 20.57 | 26.54 | 24.25 | 22.87 | 26.39 | 25.79 |
| | | 100 | 0 | 21.48 | 26.38 | 25.39 | 22.40 | 27.09 | 26.50 | 20.61 | 26.48 | 24.31 | 21.90 | 26.49 | 25.89 |
| | 256QAM | 1 | 0 | 18.83 | **24.57** | 23.55 | 19.59 | **25.29** | 24.80 | 17.61 | **23.43** | 22.41 | 18.92 | **24.78** | 24.08 |
| | | 1 | 49 | 23.69 | 24.51 | 23.52 | 24.56 | 25.10 | 24.66 | 23.15 | 23.30 | 22.47 | 24.15 | 24.71 | 24.08 |
| | | 1 | 99 | 23.65 | 24.50 | 23.61 | 24.64 | 25.12 | 24.75 | 23.28 | 23.37 | 22.42 | 24.20 | 24.62 | 23.94 |
| | | 50 | 0 | 19.55 | 24.37 | 23.37 | 20.56 | 25.09 | 24.49 | 18.92 | 23.31 | 22.29 | 19.82 | 24.52 | 23.89 |
| | | 50 | 24 | 23.50 | 24.41 | 23.41 | 24.50 | 25.08 | 24.47 | 23.02 | 23.33 | 22.29 | 23.97 | 24.51 | 23.90 |
| | | 50 | 49 | 20.46 | 24.35 | 23.34 | 21.44 | 24.99 | 24.38 | 20.07 | 23.28 | 22.23 | 20.85 | 24.42 | 23.76 |
| | | 100 | 0 | 19.46 | 24.37 | 23.40 | 20.48 | 25.06 | 24.49 | 18.99 | 23.31 | 22.28 | 19.93 | 24.51 | 23.88 |

## 5G NR n41

**Test Engineer ID:** 27979 **Test Date:** 4/22/2022

## OUTPUT POWER FOR 5G NR n41 (20.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 2 | | | Ant 1 | | | ANT 4 | | | ANT 3 | | |
| | | | | 501200 | 518600 | 536000 | 501200 | 518600 | 536000 | 501200 | 518600 | 536000 | 501200 | 518600 | 536000 |
| | | | | 2506.0 | 2593.0 | 2680.0 | 2506.0 | 2593.0 | 2680.0 | 2506.0 | 2593.0 | 2680.0 | 2506.0 | 2593.0 | 2680.0 |
| 20.0 | BPSK | 1 | 0 | 23.06 | 25.41 | 25.90 | 23.17 | 25.09 | 25.02 | 22.01 | 25.62 | 24.67 | 21.65 | 24.32 | 24.29 |
| | | 1 | 1 | 23.12 | **28.70** | **28.70** | 23.15 | 28.66 | 28.61 | 22.03 | **27.70** | 27.62 | 21.71 | 27.82 | 27.86 |
| | | 1 | 49 | **28.70** | 28.13 | 26.87 | **28.70** | 28.61 | **28.70** | 27.66 | 27.61 | **27.70** | 27.99 | **28.00** | 27.96 |
| | | 1 | 50 | 25.15 | 25.64 | 26.23 | 25.16 | 25.20 | 25.10 | 24.77 | 25.72 | 24.74 | 24.42 | 24.48 | 24.35 |
| | | 25 | 12 | 25.08 | 27.86 | 27.86 | 25.02 | **28.70** | 28.56 | 24.57 | 27.55 | 27.56 | 24.27 | 27.86 | 27.81 |
| | | 50 | 0 | 25.10 | 27.85 | 27.56 | 25.01 | 28.24 | 28.06 | 24.52 | 27.49 | 27.56 | 24.22 | 27.41 | 27.29 |
| | QPSK | 1 | 0 | 22.58 | 25.57 | 26.04 | 22.59 | 25.14 | 25.10 | 21.41 | 25.72 | 24.75 | 21.11 | 24.27 | 24.37 |
| | | 1 | 1 | 22.58 | 27.77 | 27.87 | 22.64 | 28.33 | **28.58** | 21.52 | 27.54 | 27.58 | 21.22 | 27.80 | 27.85 |
| | | 1 | 49 | **28.53** | 27.36 | 26.38 | 27.69 | 27.66 | 28.15 | **27.70** | 27.60 | **27.70** | **27.96** | 27.29 | 27.83 |
| | | 1 | 50 | 25.11 | 25.68 | 25.94 | 25.07 | 25.24 | 25.13 | 24.74 | 25.74 | 24.73 | 24.41 | 24.48 | 24.39 |
| | | 25 | 12 | 24.01 | 27.30 | 27.38 | 24.03 | 27.83 | 28.25 | 23.54 | 27.53 | 27.57 | 23.28 | 27.89 | 27.79 |
| | | 50 | 0 | 23.97 | 27.00 | 26.86 | 24.02 | 27.04 | 27.55 | 23.53 | 27.55 | 27.21 | 23.23 | 26.91 | 26.80 |
| | 16QAM | 1 | 0 | 22.76 | 25.74 | 26.29 | 22.54 | 25.38 | 25.29 | 21.27 | 25.87 | 24.90 | 20.90 | 24.38 | 24.49 |
| | | 1 | 1 | 22.86 | 27.48 | 27.59 | 22.53 | 27.66 | **27.81** | 21.30 | 27.50 | 27.45 | 20.92 | 26.99 | **27.10** |
| | | 1 | 49 | **27.94** | 27.11 | 26.17 | 26.68 | 26.96 | 27.51 | 27.08 | 27.60 | 27.45 | 26.82 | 26.70 | 27.01 |
| | | 1 | 50 | 25.39 | 25.89 | 25.50 | 25.01 | 25.48 | 25.34 | 24.63 | 25.98 | 24.94 | 24.36 | 24.48 | 24.64 |
| | | 25 | 12 | 23.53 | 26.74 | 26.98 | 23.58 | 26.95 | 27.40 | 23.02 | **27.61** | 27.13 | 22.66 | 26.85 | 26.88 |
| | | 50 | 0 | 23.50 | 26.35 | 26.29 | 23.53 | 26.00 | 26.45 | 22.99 | 27.16 | 26.17 | 22.72 | 25.88 | 25.93 |
| | 64QAM | 1 | 0 | 22.36 | 25.74 | 26.28 | 22.30 | 25.37 | 25.29 | 21.20 | 25.65 | 24.83 | 20.72 | 24.60 | 24.44 |
| | | 1 | 1 | 22.43 | 26.48 | **26.57** | 22.33 | 26.23 | **26.28** | 21.18 | **26.78** | 25.84 | 20.82 | 25.64 | 25.43 |
| | | 1 | 49 | 26.22 | 26.18 | 25.40 | 25.51 | 25.46 | 25.88 | 25.99 | 26.68 | 25.87 | 25.49 | 25.35 | **25.67** |
| | | 1 | 50 | 25.22 | 25.80 | 25.25 | 25.30 | 25.40 | 25.28 | 25.02 | 25.93 | 24.89 | 24.66 | 24.62 | 24.52 |
| | | 25 | 12 | 23.47 | 26.06 | 26.04 | 23.53 | 25.48 | 25.96 | 23.08 | 26.62 | 25.65 | 22.77 | 25.39 | 25.33 |
| | | 50 | 0 | 23.46 | 26.04 | 26.06 | 23.51 | 25.52 | 25.97 | 23.02 | 26.67 | 25.70 | 22.72 | 25.27 | 25.39 |
| | 256QAM | 1 | 0 | 20.64 | 24.40 | 24.86 | 20.64 | 24.10 | 24.02 | 19.49 | 24.53 | 23.51 | 19.17 | 23.30 | 23.20 |
| | | 1 | 1 | 20.53 | 24.49 | 24.87 | 20.63 | 24.10 | 24.04 | 19.67 | 24.71 | 23.57 | 19.20 | 23.22 | 23.24 |
| | | 1 | 49 | 23.84 | 24.62 | 24.34 | 23.93 | 23.73 | 24.04 | 23.72 | **24.72** | 23.83 | **23.54** | 23.31 | 23.39 |
| | | 1 | 50 | 23.89 | 24.48 | 24.30 | 23.93 | 23.73 | 24.02 | 23.72 | 24.65 | 23.85 | 23.45 | 23.30 | 23.25 |
| | | 25 | 12 | 22.00 | 24.38 | 24.83 | 22.12 | **24.14** | 24.04 | 21.42 | 24.61 | 23.72 | 21.25 | 23.21 | 23.36 |
| | | 50 | 0 | 22.09 | 24.39 | **24.92** | 22.11 | 24.13 | 24.03 | 21.46 | 24.66 | 23.70 | 21.27 | 23.27 | 23.35 |

## OUTPUT POWER FOR 5G NR n41 (30.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 2 | | | ANT 1 | | | ANT 4 | | | ANT 3 | | |
| | | | | 502200 | 518600 | 525000 | 502200 | 518600 | 525000 | 502200 | 518600 | 525000 | 502200 | 518600 | 525000 |
| | | | | 2511.0 | 2593.0 | 2675.0 | 2511.0 | 2593.0 | 2675.0 | 2511.0 | 2593.0 | 2675.0 | 2511.0 | 2593.0 | 2675.0 |
| 30.0 | BPSK | 1 | 0 | 23.19 | 25.41 | 25.36 | 23.05 | 25.04 | 24.89 | 21.95 | 25.71 | 24.61 | 21.48 | 24.39 | 24.30 |
| | | 1 | 1 | 23.03 | **28.70** | **28.70** | 23.05 | **28.70** | 28.49 | 21.99 | 27.55 | 27.46 | 21.74 | **28.00** | 27.94 |
| | | 1 | 76 | **28.70** | 28.38 | 26.79 | **28.70** | 28.45 | **28.70** | **27.70** | 27.65 | 27.59 | **28.00** | 27.90 | 27.90 |
| | | 1 | 77 | 25.19 | 25.61 | 25.55 | 25.13 | 25.14 | 25.14 | 24.75 | 25.67 | 24.74 | 24.41 | 24.41 | 24.51 |
| | | 36 | 18 | 25.16 | 28.50 | 28.21 | 25.05 | 28.64 | 28.49 | 24.63 | 27.47 | 27.48 | 24.28 | 27.98 | 27.80 |
| | | 75 | 0 | 25.13 | 28.40 | 27.75 | 25.04 | 28.17 | 27.99 | 24.57 | 27.54 | 27.51 | 24.26 | 27.40 | 27.39 |
| | QPSK | 1 | 0 | 22.59 | 25.59 | 25.46 | 22.53 | 25.13 | 24.97 | 21.47 | 25.70 | 24.57 | 21.09 | 24.47 | 24.44 |
| | | 1 | 1 | 22.66 | 28.41 | 27.82 | 22.56 | 28.34 | **28.56** | 21.42 | **27.70** | 27.46 | 21.20 | 27.94 | 27.85 |
| | | 1 | 76 | **28.65** | 27.75 | 26.32 | 28.07 | 27.45 | 28.00 | 27.62 | 27.64 | **27.70** | 27.94 | 27.21 | 27.78 |
| | | 1 | 77 | 25.19 | 25.71 | 25.60 | 25.14 | 25.19 | 25.20 | 24.76 | 25.67 | 24.76 | 24.56 | 24.55 | 24.49 |
| | | 36 | 18 | 23.99 | 27.95 | 27.66 | 24.03 | 27.68 | 28.39 | 23.62 | 27.49 | 27.54 | 23.19 | **27.97** | 27.88 |
| | | 75 | 0 | 24.02 | 27.59 | 27.03 | 24.01 | 26.78 | 27.46 | 23.55 | 27.52 | 27.05 | 23.21 | 26.88 | 26.87 |
| | 16QAM | 1 | 0 | 22.71 | 25.76 | 25.57 | 22.77 | 25.37 | 25.23 | 21.60 | 25.92 | 24.71 | 21.24 | 24.58 | 24.56 |
| | | 1 | 1 | 22.66 | **28.11** | 27.37 | 22.73 | 27.60 | **27.74** | 21.68 | 27.64 | 27.27 | 21.38 | 27.18 | 27.11 |
| | | 1 | 76 | 27.87 | 27.47 | 26.00 | 27.17 | 26.65 | 27.38 | 27.28 | **27.67** | 27.46 | **27.19** | 26.39 | 27.14 |
| | | 1 | 77 | 25.25 | 25.86 | 25.43 | 25.36 | 25.35 | 25.39 | 25.16 | 25.91 | 24.87 | 24.68 | 24.71 | 24.75 |
| | | 36 | 18 | 23.44 | 27.49 | 27.11 | 23.54 | 26.83 | 27.45 | 23.10 | 27.51 | 26.96 | 22.73 | 26.93 | 26.84 |
| | | 75 | 0 | 23.47 | 27.01 | 26.38 | 23.49 | 25.89 | 26.44 | 23.14 | 27.16 | 26.05 | 22.73 | 25.95 | 25.81 |
| | 64QAM | 1 | 0 | 22.23 | 25.73 | 25.67 | 22.20 | 25.26 | 25.16 | 21.22 | 25.92 | 24.74 | 20.70 | 24.54 | 24.31 |
| | | 1 | 1 | 22.44 | **26.83** | 26.39 | 22.19 | 26.13 | **26.15** | 21.22 | **26.78** | 25.64 | 20.72 | 25.67 | 25.51 |
| | | 1 | 76 | 26.35 | 26.81 | 25.22 | 25.68 | 25.19 | 25.95 | 25.86 | 26.19 | 26.03 | **25.76** | 25.03 | 25.58 |
| | | 1 | 77 | 25.19 | 25.75 | 25.36 | 25.28 | 25.13 | 25.28 | 25.00 | 25.75 | 24.71 | 24.76 | 24.70 | 24.67 |
| | | 36 | 18 | 23.52 | 26.40 | 26.15 | 23.57 | 25.53 | 25.91 | 23.14 | 26.54 | 25.51 | 22.73 | 25.35 | 25.29 |
| | | 75 | 0 | 23.47 | 26.44 | 26.06 | 23.54 | 25.46 | 25.91 | 23.05 | 26.63 | 25.57 | 22.71 | 25.40 | 25.36 |
| | 256QAM | 1 | 0 | 20.38 | 24.56 | 24.25 | 20.51 | 24.01 | 23.89 | 19.44 | 24.55 | 23.45 | 19.13 | 23.40 | 23.12 |
| | | 1 | 1 | 20.42 | 24.49 | 24.19 | 20.50 | 24.03 | 23.90 | 19.43 | 24.54 | 23.51 | 19.07 | 23.40 | 23.30 |
| | | 1 | 76 | 24.08 | **24.60** | 24.44 | 23.87 | 23.47 | 24.02 | 23.81 | 24.62 | 23.78 | **23.59** | 23.55 | 23.42 |
| | | 1 | 77 | 23.88 | 24.44 | 24.23 | 23.86 | 23.45 | 24.04 | 23.62 | **24.65** | 23.81 | 23.51 | 23.42 | 23.52 |
| | | 36 | 18 | 21.94 | 24.39 | 24.20 | 21.99 | **24.05** | 23.91 | 21.60 | 24.54 | 23.49 | 21.26 | 23.31 | 23.13 |
| | | 75 | 0 | 21.92 | 24.35 | 24.21 | 22.00 | 23.99 | 24.00 | 21.53 | 24.53 | 23.55 | 21.18 | 23.43 | 23.31 |

## OUTPUT POWER FOR 5G NR n41 (40.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 2 | | | ANT 1 | | | ANT 4 | | | ANT 3 | | |
| | | | | 503200 | 518600 | 534000 | 503200 | 518600 | 534000 | 503200 | 518600 | 534000 | 503200 | 518600 | 534000 |
| | | | | 2516.0 | 2593.0 | 2670.0 | 2516.0 | 2593.0 | 2670.0 | 2516.0 | 2593.0 | 2670.0 | 2516.0 | 2593.0 | 2670.0 |
| 40.0 | BPSK | 1 | 0 | 22.99 | 25.43 | 26.48 | 23.16 | 25.14 | 24.96 | 22.09 | 25.64 | 24.71 | 21.72 | 24.31 | 24.32 |
| | | 1 | 1 | 23.02 | 28.69 | 28.63 | 23.13 | **28.70** | 28.55 | 22.11 | 27.63 | **27.70** | 21.77 | **28.00** | 27.88 |
| | | 1 | 104 | 28.65 | 28.30 | 27.16 | **28.70** | 28.28 | **28.70** | 27.62 | 27.67 | 27.65 | 27.97 | 27.76 | 27.92 |
| | | 1 | 105 | 25.08 | 25.68 | 26.72 | 25.15 | 25.20 | 25.14 | 24.71 | 25.82 | 24.84 | 24.55 | 24.48 | 24.43 |
| | | 50 | 25 | 24.93 | **28.70** | **28.70** | 25.02 | 28.58 | 28.45 | 24.71 | 27.47 | 27.55 | 24.37 | 27.76 | 27.82 |
| | | 100 | 0 | 24.91 | 28.50 | 28.25 | 25.04 | 28.12 | 27.92 | 24.59 | 27.53 | 25.31 | 24.33 | 27.31 | 27.29 |
| | QPSK | 1 | 0 | 22.44 | 25.61 | 26.59 | 22.67 | 25.18 | 25.02 | 21.52 | 25.78 | 24.30 | 21.29 | 24.51 | 24.39 |
| | | 1 | 1 | 22.42 | 28.43 | 27.85 | 22.64 | **28.59** | 28.50 | 21.71 | 27.66 | 25.18 | 21.20 | 27.99 | 27.37 |
| | | 1 | 104 | **28.70** | 27.64 | 26.63 | 28.19 | 27.56 | 27.43 | **27.70** | **27.70** | 24.91 | **28.00** | 26.90 | 26.80 |
| | | 1 | 105 | 25.10 | 25.74 | 26.16 | 25.20 | 25.19 | 25.16 | 24.77 | 25.84 | 24.00 | 24.55 | 24.61 | 24.46 |
| | | 50 | 25 | 23.86 | 28.11 | 28.20 | 24.01 | 27.71 | 28.49 | 23.73 | 27.52 | 27.60 | 23.36 | 27.91 | 27.79 |
| | | 100 | 0 | 23.87 | 27.69 | 27.47 | 24.02 | 26.92 | 27.42 | 23.68 | 27.58 | 27.24 | 23.29 | 26.83 | 26.79 |
| | 16QAM | 1 | 0 | 22.60 | 25.80 | 26.81 | 22.91 | 25.39 | 25.27 | 21.43 | 25.99 | 25.00 | 21.53 | 24.62 | 24.77 |
| | | 1 | 1 | 22.71 | **27.97** | 27.47 | 22.91 | **27.81** | 27.78 | 21.47 | **27.68** | 27.42 | 21.39 | 27.12 | 27.19 |
| | | 1 | 104 | 27.80 | 27.32 | 26.34 | 27.74 | 26.68 | 27.29 | 27.01 | 27.48 | 27.18 | 27.23 | 26.49 | **27.27** |
| | | 1 | 105 | 25.18 | 25.95 | 25.94 | 25.39 | 25.36 | 25.32 | 24.75 | 25.92 | 25.06 | 24.77 | 24.67 | 24.85 |
| | | 50 | 25 | 23.33 | 27.62 | 27.65 | 23.49 | 26.83 | 27.43 | 23.28 | 27.43 | 27.38 | 22.89 | 26.90 | 26.76 |
| | | 100 | 0 | 23.36 | 26.99 | 26.86 | 23.48 | 26.02 | 26.41 | 23.23 | 27.15 | 26.36 | 22.80 | 25.83 | 25.80 |
| | 64QAM | 1 | 0 | 22.24 | 25.70 | 26.43 | 22.32 | 25.33 | 25.19 | 21.35 | 25.82 | 25.00 | 20.80 | 24.62 | 24.41 |
| | | 1 | 1 | 22.13 | **26.83** | 26.55 | 22.29 | **26.31** | 26.19 | 21.19 | **26.98** | 26.17 | 20.96 | 25.59 | 25.50 |
| | | 1 | 104 | 26.36 | 26.43 | 25.67 | 26.25 | 25.10 | 25.93 | 25.82 | 25.90 | 25.82 | 25.59 | 24.75 | **25.79** |
| | | 1 | 105 | 25.22 | 25.83 | 25.64 | 25.31 | 25.10 | 25.25 | 25.04 | 25.76 | 25.21 | 24.56 | 24.81 | 24.46 |
| | | 50 | 25 | 23.30 | 26.43 | 26.70 | 23.51 | 25.41 | 25.90 | 23.25 | 26.62 | 25.84 | 22.83 | 25.35 | 25.33 |
| | | 100 | 0 | 23.33 | 26.48 | 26.57 | 23.53 | 25.41 | 25.88 | 23.21 | 26.61 | 25.81 | 22.83 | 25.38 | 25.27 |
| | 256QAM | 1 | 0 | 20.50 | 24.45 | 25.30 | 20.62 | 24.10 | 23.99 | 19.45 | **24.84** | 23.94 | 19.17 | 23.51 | 23.33 |
| | | 1 | 1 | 20.42 | 24.38 | **25.37** | 20.61 | 24.08 | 23.94 | 19.84 | 24.54 | 23.86 | 19.20 | 23.20 | 23.34 |
| | | 1 | 104 | 24.09 | 24.57 | 24.69 | **24.19** | 23.44 | 24.05 | 24.00 | 24.39 | 24.05 | 23.51 | 23.36 | **23.53** |
| | | 1 | 105 | 24.09 | 24.73 | 24.69 | 24.17 | 23.44 | 24.05 | 23.93 | 24.25 | 24.08 | 23.43 | 23.37 | 23.44 |
| | | 50 | 25 | 21.82 | 24.34 | 25.31 | 22.10 | 24.02 | 23.88 | 21.76 | 24.58 | 23.75 | 21.28 | 23.35 | 23.23 |
| | | 100 | 0 | 21.83 | 24.35 | **25.37** | 22.02 | 24.01 | 23.86 | 21.69 | 24.64 | 23.74 | 21.23 | 23.29 | 23.38 |

## OUTPUT POWER FOR 5G NR n41 (50.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 2 | | | ANT 1 | | | ANT 4 | | | ANT 3 | | |
| | | | | 504200 | 518600 | 533000 | 504200 | 518600 | 533000 | 504200 | 518600 | 533000 | 504200 | 518600 | 533000 |
| | | | | 2521.0 | 2593.0 | 2665.0 | 2521.0 | 2593.0 | 2665.0 | 2521.0 | 2593.0 | 2665.0 | 2521.0 | 2593.0 | 2665.0 |
| 50.0 | BPSK | 1 | 0 | 22.94 | 25.33 | 26.45 | 23.00 | 25.04 | 24.99 | 21.98 | 25.57 | 24.72 | 21.54 | 24.46 | 24.22 |
| | | 1 | 1 | 22.86 | 28.59 | 28.60 | 23.00 | **28.70** | 28.53 | 22.09 | 27.49 | 27.47 | 21.66 | 27.89 | 27.77 |
| | | 1 | 131 | **28.70** | 28.16 | 27.26 | **28.70** | 28.05 | 28.42 | **27.70** | 27.60 | **27.70** | 27.94 | 27.55 | 27.93 |
| | | 1 | 132 | 25.14 | 25.66 | 26.76 | 25.08 | 25.25 | 25.15 | 24.81 | 25.71 | 24.84 | 24.44 | 24.57 | 24.37 |
| | | 64 | 32 | 24.93 | **28.70** | **28.70** | 24.96 | 28.21 | **28.70** | 24.71 | 27.41 | 27.48 | 24.35 | **28.00** | 27.81 |
| | | 128 | 0 | 24.90 | 28.52 | 28.24 | 24.93 | 28.16 | 27.98 | 24.73 | 27.51 | 27.54 | 24.24 | 27.45 | 27.33 |
| | QPSK | 1 | 0 | 22.36 | 25.55 | 26.65 | 22.54 | 25.20 | 24.99 | 21.55 | 25.63 | 24.70 | 21.16 | 24.40 | 24.25 |
| | | 1 | 1 | 22.38 | 28.48 | 27.87 | 22.53 | 28.32 | **28.37** | 21.59 | 27.58 | 27.60 | 21.06 | **27.98** | 27.84 |
| | | 1 | 131 | **28.68** | 27.42 | 26.86 | 28.05 | 27.37 | 27.99 | 27.62 | **27.70** | **27.70** | 27.59 | 26.96 | 27.45 |
| | | 1 | 132 | 25.13 | 25.74 | 26.38 | 25.09 | 25.24 | 25.14 | 24.81 | 25.76 | 24.85 | 24.32 | 24.62 | 24.50 |
| | | 64 | 32 | 23.83 | 28.13 | 28.20 | 23.97 | 27.49 | 28.34 | 23.76 | 27.45 | 27.53 | 23.28 | 27.56 | 27.82 |
| | | 128 | 0 | 23.89 | 27.69 | 27.51 | 23.88 | 26.37 | 26.92 | 23.73 | 27.48 | 27.17 | 23.24 | 26.78 | 26.83 |
| | 16QAM | 1 | 0 | 22.45 | 25.78 | 26.68 | 22.75 | 25.41 | 25.21 | 21.99 | 25.81 | 24.90 | 21.25 | 24.68 | 24.38 |
| | | 1 | 1 | 22.66 | **28.35** | 27.49 | 22.76 | 27.03 | 27.26 | 21.94 | **27.68** | 27.33 | 21.31 | 27.08 | 26.90 |
| | | 1 | 131 | 27.78 | 27.21 | 26.53 | 26.94 | 26.14 | 26.98 | 27.10 | 27.49 | 27.44 | 26.79 | 26.18 | **27.11** |
| | | 1 | 132 | 25.40 | 25.98 | 25.94 | 25.30 | 25.21 | 25.37 | 25.01 | 26.05 | 25.02 | 24.67 | 24.83 | 24.58 |
| | | 64 | 32 | 23.37 | 27.64 | 27.59 | 23.44 | 26.70 | **27.46** | 23.26 | 27.50 | 27.18 | 22.80 | 26.90 | 26.88 |
| | | 128 | 0 | 23.38 | 27.02 | 26.80 | 23.36 | 25.61 | 26.28 | 23.20 | 27.11 | 26.16 | 22.69 | 25.83 | 25.86 |
| | 64QAM | 1 | 0 | 22.12 | 25.63 | 26.55 | 22.17 | 25.33 | 25.12 | 21.35 | 25.84 | 24.90 | 20.76 | 24.72 | 24.33 |
| | | 1 | 1 | 22.12 | 26.60 | **26.64** | 22.15 | 25.76 | **26.12** | 21.38 | 26.54 | 25.93 | 20.79 | 25.34 | 25.48 |
| | | 1 | 131 | 26.18 | 26.33 | 25.84 | 25.54 | 24.82 | 25.84 | 25.61 | 26.00 | 25.93 | 25.02 | 24.74 | **25.91** |
| | | 1 | 132 | 25.12 | 25.91 | 25.86 | 25.23 | 24.87 | 25.28 | 25.08 | 26.00 | 24.91 | 24.58 | 24.88 | 24.64 |
| | | 64 | 32 | 23.37 | 26.46 | 26.57 | 23.46 | 25.26 | 25.99 | 23.21 | **26.57** | 25.58 | 22.81 | 25.39 | 25.28 |
| | | 128 | 0 | 23.38 | 26.44 | 26.58 | 23.39 | 25.35 | 25.82 | 23.26 | 26.40 | 25.65 | 22.74 | 25.49 | 25.33 |
| | 256QAM | 1 | 0 | 20.31 | 24.44 | 25.38 | 20.43 | **24.11** | 23.94 | 19.44 | 24.28 | 23.63 | 19.02 | **23.58** | 23.28 |
| | | 1 | 1 | 20.26 | 24.36 | **25.53** | 20.46 | 24.09 | 23.99 | 19.71 | 24.41 | 23.56 | 18.97 | 23.25 | 23.15 |
| | | 1 | 131 | 23.89 | 24.66 | 24.87 | 23.82 | 23.40 | 24.07 | 23.71 | **24.44** | 23.88 | 23.42 | 23.51 | 23.49 |
| | | 1 | 132 | 24.04 | 24.51 | 24.72 | 23.80 | 23.41 | 24.07 | 23.63 | **24.44** | 23.69 | 23.27 | 23.27 | 23.46 |
| | | 64 | 32 | 21.85 | 24.37 | 25.47 | 21.94 | 23.99 | 23.92 | 21.70 | 24.23 | 23.50 | 21.22 | 23.32 | 23.36 |
| | | 128 | 0 | 21.86 | 24.34 | 25.49 | 21.85 | 23.74 | 23.86 | 21.70 | 24.30 | 23.61 | 21.18 | 23.33 | 23.34 |

## OUTPUT POWER FOR 5G NR n41 (60.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 2 | | | ANT 1 | | | ANT 4 | | | ANT 3 | | |
| | | | | 505200 | 518600 | 532000 | 505200 | 518600 | 532000 | 505200 | 518600 | 532000 | 505200 | 518600 | 532000 |
| | | | | 2526.0 | 2593.0 | 2660.0 | 2526.0 | 2593.0 | 2660.0 | 2526.0 | 2593.0 | 2660.0 | 2526.0 | 2593.0 | 2660.0 |
| 60.0 | BPSK | 1 | 0 | 22.93 | 25.26 | 26.40 | 23.70 | 25.12 | 25.32 | 21.76 | 24.19 | 24.39 | 21.46 | 24.38 | 24.41 |
| | | 1 | 1 | 22.94 | 28.65 | **28.70** | 23.71 | 28.65 | 28.31 | 21.74 | 27.50 | **27.70** | 21.58 | 27.98 | 27.55 |
| | | 1 | 160 | 28.65 | 27.93 | 27.20 | **28.70** | 28.02 | 27.75 | 27.66 | 27.63 | 26.48 | 27.85 | 27.44 | 27.51 |
| | | 1 | 161 | 25.04 | 25.63 | 26.68 | 25.69 | 25.20 | 25.50 | 24.10 | 24.37 | 24.51 | 24.35 | 24.46 | 24.60 |
| | | 81 | 40 | 24.94 | **28.70** | 28.67 | 25.73 | **28.70** | **28.70** | 24.10 | 27.46 | 27.61 | 24.35 | 27.98 | **28.00** |
| | | 162 | 0 | 24.93 | 28.40 | 28.17 | 25.68 | 28.27 | 27.91 | 24.00 | 27.17 | 27.36 | 24.32 | 27.47 | 27.49 |
| | QPSK | 1 | 0 | 22.44 | 25.49 | 26.54 | 23.25 | 25.25 | 25.44 | 21.24 | 24.24 | 24.41 | 21.00 | 24.41 | 24.45 |
| | | 1 | 1 | 22.44 | 28.36 | 27.89 | 23.21 | **28.52** | 27.87 | 21.25 | 27.51 | 27.68 | 21.13 | **28.00** | 26.99 |
| | | 1 | 160 | **28.70** | 27.24 | 26.73 | 26.72 | 27.77 | 27.48 | **27.70** | **27.70** | 26.02 | 27.71 | 27.02 | 26.92 |
| | | 1 | 161 | 25.10 | 25.57 | 26.28 | 25.70 | 25.21 | 25.52 | 24.14 | 24.38 | 24.52 | 24.22 | 24.42 | 24.51 |
| | | 81 | 40 | 23.91 | 28.10 | 28.09 | 24.73 | 27.04 | 27.46 | 23.08 | 27.42 | 27.20 | 23.41 | 27.86 | 27.39 |
| | | 162 | 0 | 23.92 | 27.62 | 27.42 | 24.60 | 26.56 | 26.12 | 22.93 | 26.59 | 26.69 | 23.30 | 26.86 | 25.93 |
| | 16QAM | 1 | 0 | 22.50 | 25.69 | 26.64 | 23.45 | 25.44 | 25.66 | 21.41 | 24.40 | 24.56 | 21.17 | 24.68 | 24.75 |
| | | 1 | 1 | 22.67 | **28.16** | 27.67 | 23.43 | **27.06** | 26.68 | 21.43 | 26.96 | **27.20** | 21.26 | **27.16** | 25.82 |
| | | 1 | 160 | 27.95 | 26.87 | 26.42 | 26.50 | 26.36 | 26.25 | 26.85 | **27.20** | 25.77 | 27.14 | 26.31 | 26.12 |
| | | 1 | 161 | 25.26 | 26.00 | 25.85 | 25.47 | 25.44 | 25.26 | 24.34 | 24.58 | 24.73 | 24.45 | 24.76 | 24.78 |
| | | 81 | 40 | 23.36 | 27.56 | 27.51 | 24.20 | 26.72 | 27.05 | 22.54 | 26.67 | 26.74 | 22.93 | 26.90 | 26.88 |
| | | 162 | 0 | 23.42 | 26.94 | 26.77 | 24.13 | 25.83 | 25.54 | 22.47 | 25.55 | 25.74 | 22.83 | 25.98 | 25.20 |
| | 64QAM | 1 | 0 | 21.87 | 25.54 | **26.78** | 22.85 | 25.35 | 25.42 | 20.85 | 24.35 | 24.55 | 20.84 | 24.47 | 24.44 |
| | | 1 | 1 | 22.24 | 26.70 | 26.77 | 22.93 | **25.85** | 25.48 | 20.91 | 25.37 | **25.70** | 20.74 | **26.00** | 24.44 |
| | | 1 | 160 | 26.25 | 26.05 | 25.77 | 25.42 | 25.08 | 25.09 | 25.31 | 25.57 | 25.06 | 25.47 | 24.63 | 24.73 |
| | | 1 | 161 | 25.16 | 25.77 | 25.81 | 25.40 | 25.08 | 25.07 | 24.31 | 24.53 | 24.70 | 24.39 | 24.70 | 24.57 |
| | | 81 | 40 | 23.35 | 26.43 | 26.54 | 24.17 | 25.54 | 25.61 | 22.61 | 25.17 | 25.44 | 22.88 | 25.46 | 25.42 |
| | | 162 | 0 | 23.40 | 26.39 | 26.50 | 24.08 | 25.42 | 24.93 | 22.42 | 25.04 | 25.30 | 22.84 | 25.33 | 24.89 |
| | 256QAM | 1 | 0 | 20.39 | 24.43 | **25.55** | 21.15 | 24.13 | 23.68 | 19.17 | 23.12 | **23.42** | 18.99 | 23.44 | 22.97 |
| | | 1 | 1 | 20.29 | 24.37 | 25.36 | 21.15 | 24.15 | 23.74 | 19.19 | 23.20 | 23.40 | 19.01 | 23.37 | 23.17 |
| | | 1 | 160 | 23.90 | 24.32 | 24.87 | 24.11 | 23.46 | 23.41 | 23.09 | 23.28 | 23.38 | 23.30 | 23.17 | 23.42 |
| | | 1 | 161 | 23.84 | 24.40 | 24.83 | 24.03 | 23.48 | 23.40 | 23.07 | 23.28 | 23.38 | 23.20 | 23.27 | 23.24 |
| | | 81 | 40 | 21.94 | 24.33 | 25.39 | 22.64 | 23.86 | **24.19** | 21.03 | 23.09 | 23.32 | 21.37 | 23.38 | 23.42 |
| | | 162 | 0 | 21.93 | 24.33 | 25.43 | 22.54 | 23.87 | 23.76 | 20.91 | 22.98 | 23.22 | 21.31 | 23.44 | **23.49** |

## OUTPUT POWER FOR 5G NR n41 (70.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 2 | | | ANT 1 | | | ANT 4 | | | ANT 3 | | |
| | | | | 506200 | 518600 | 531000 | 506200 | 518600 | 531000 | 506200 | 518600 | 531000 | 506200 | 518600 | 531000 |
| | | | | 2531.0 | 2593.0 | 2655.0 | 2531.0 | 2593.0 | 2655.0 | 2531.0 | 2593.0 | 2655.0 | 2531.0 | 2593.0 | 2655.0 |
| 70.0 | BPSK | 1 | 0 | 23.50 | 23.26 | 25.73 | 23.23 | 25.37 | 25.71 | 21.74 | 22.33 | 24.21 | 21.79 | 22.48 | 24.39 |
| | | 1 | 1 | 23.50 | 23.13 | **28.70** | 23.23 | **28.70** | **28.70** | 21.69 | 22.19 | 27.58 | 21.86 | 22.54 | 27.59 |
| | | 1 | 187 | 28.67 | 27.20 | 27.99 | **28.70** | 28.32 | 28.05 | 27.43 | **27.63** | 26.55 | 27.84 | 27.70 | 27.61 |
| | | 1 | 188 | 25.13 | 24.96 | 26.03 | 25.15 | 25.30 | 25.75 | 24.39 | 24.17 | 24.54 | 24.42 | 24.43 | 24.35 |
| | | 90 | 45 | 24.79 | **28.70** | 27.88 | 25.23 | 28.25 | 27.97 | 24.20 | 27.53 | **27.63** | 24.51 | **28.00** | **28.00** |
| | | 180 | 0 | 24.96 | 28.48 | 27.61 | 25.17 | 28.36 | 28.33 | 24.19 | 27.34 | 27.41 | 24.48 | 27.51 | 27.10 |
| | QPSK | 1 | 0 | 23.02 | 22.56 | 25.68 | 22.76 | 25.46 | 25.71 | 21.28 | 21.65 | 24.19 | 21.28 | 21.96 | 24.33 |
| | | 1 | 1 | 23.12 | 22.76 | 28.17 | 22.77 | **28.51** | 28.22 | 21.23 | 21.72 | **27.70** | 21.49 | 21.99 | 26.42 |
| | | 1 | 187 | **28.70** | 26.64 | 27.55 | 26.95 | 27.94 | 27.73 | **27.70** | **27.70** | 26.13 | **28.00** | 27.22 | 26.49 |
| | | 1 | 188 | 25.11 | 25.01 | 26.20 | 25.22 | 25.36 | 25.81 | 24.38 | 24.34 | 24.42 | 24.30 | 24.47 | 24.36 |
| | | 90 | 45 | 23.82 | 28.64 | 27.54 | 24.17 | 27.94 | 27.94 | 23.16 | 27.51 | 27.40 | 23.49 | 27.65 | 27.34 |
| | | 180 | 0 | 23.94 | 27.96 | 27.12 | 24.10 | 26.50 | 26.37 | 23.25 | 26.78 | 26.87 | 23.40 | 26.83 | 25.99 |
| | 16QAM | 1 | 0 | 23.20 | 22.78 | 25.96 | 23.00 | 25.69 | 25.89 | 21.75 | 21.75 | 24.16 | 21.53 | 22.44 | 24.58 |
| | | 1 | 1 | 23.30 | 23.09 | 27.68 | 22.99 | 26.80 | 27.12 | 21.59 | 21.73 | 26.93 | 21.79 | 22.43 | 26.01 |
| | | 1 | 187 | **28.12** | 26.28 | 26.92 | 26.64 | 26.38 | 26.48 | **27.18** | 26.89 | 25.80 | 26.08 | 26.15 | 26.18 |
| | | 1 | 188 | 25.58 | 25.19 | 26.22 | 25.44 | 25.35 | 25.61 | 24.65 | 24.59 | 24.73 | 24.36 | 24.73 | 24.72 |
| | | 90 | 45 | 23.29 | 27.98 | 27.04 | 23.72 | 27.09 | **27.18** | 22.66 | 26.79 | 26.85 | 23.03 | **26.98** | 26.76 |
| | | 180 | 0 | 23.51 | 26.93 | 26.62 | 23.60 | 26.02 | 25.64 | 22.70 | 25.72 | 25.84 | 22.98 | 25.94 | 25.57 |
| | 64QAM | 1 | 0 | 22.47 | 22.40 | 26.25 | 22.43 | 25.64 | 25.75 | 20.63 | 21.32 | 24.20 | 20.96 | 21.69 | 24.49 |
| | | 1 | 1 | 23.02 | 22.04 | **27.24** | 22.44 | 25.66 | 25.79 | 21.11 | 21.66 | 25.45 | 21.23 | 21.65 | 25.13 |
| | | 1 | 187 | 26.41 | 25.68 | 26.54 | **25.94** | 25.15 | 25.20 | **25.57** | 25.22 | 24.96 | 25.16 | 25.10 | 24.99 |
| | | 1 | 188 | 25.61 | 25.33 | 26.61 | 25.35 | 25.16 | 25.26 | 24.49 | 24.61 | 24.68 | 24.72 | 24.52 | 24.67 |
| | | 90 | 45 | 23.28 | 26.50 | 26.22 | 23.75 | 25.62 | 25.73 | 22.61 | 25.16 | 25.30 | 23.00 | 25.39 | 25.25 |
| | | 180 | 0 | 23.55 | 26.44 | 26.33 | 23.60 | 25.51 | 25.38 | 22.70 | 25.21 | 25.35 | 22.95 | **25.41** | 24.70 |
| | 256QAM | 1 | 0 | 21.12 | 20.69 | 24.83 | 20.71 | 24.06 | 24.39 | 19.51 | 19.88 | 23.28 | 19.20 | 19.86 | 23.09 |
| | | 1 | 1 | 20.87 | 20.41 | 24.47 | 20.67 | 24.11 | **24.42** | 19.10 | 19.59 | 23.17 | 19.36 | 19.96 | 23.28 |
| | | 1 | 187 | 24.44 | 23.88 | **25.17** | 24.12 | 23.60 | 23.84 | 23.10 | 22.99 | 23.11 | 23.09 | 23.35 | **23.37** |
| | | 1 | 188 | 24.15 | 23.90 | 25.15 | 24.12 | 23.61 | 23.83 | 23.16 | **23.74** | 23.36 | 23.20 | 23.15 | 23.34 |
| | | 90 | 45 | 21.77 | 24.47 | 24.45 | 22.18 | 24.25 | 24.30 | 21.19 | 23.13 | 23.31 | 21.54 | 23.24 | 23.32 |
| | | 180 | 0 | 21.96 | 24.31 | 24.59 | 22.07 | 24.17 | 24.03 | 21.00 | 23.18 | 23.28 | 21.48 | 23.36 | 23.32 |

## OUTPUT POWER FOR 5G NR n41 (80.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 2 | | | ANT 1 | | | ANT 4 | | | ANT 3 | | |
| | | | | 507200 | 518600 | 530000 | 507200 | 518600 | 530000 | 507200 | 518600 | 530000 | 507200 | 518600 | 530000 |
| | | | | 2536.0 | 2593.0 | 2650.0 | 2536.0 | 2593.0 | 2650.0 | 2536.0 | 2593.0 | 2650.0 | 2536.0 | 2593.0 | 2650.0 |
| 80.0 | BPSK | 1 | 0 | 23.31 | 23.33 | 25.70 | 23.19 | 23.15 | 25.42 | 21.82 | 22.49 | 24.36 | 21.84 | 22.52 | 24.26 |
| | | 1 | 1 | 23.17 | 23.11 | **28.70** | 23.18 | 23.14 | 28.54 | 21.85 | 22.41 | 27.65 | 21.98 | 22.59 | 27.67 |
| | | 1 | 215 | 28.67 | 28.07 | 26.61 | **28.70** | 27.97 | 27.57 | **27.67** | 26.15 | 26.63 | **28.00** | 27.74 | 27.29 |
| | | 1 | 216 | 25.36 | 25.54 | 25.93 | 25.16 | 25.24 | 25.50 | 24.36 | 24.29 | 24.46 | 24.35 | 24.30 | 24.45 |
| | | 108 | 54 | 25.30 | **28.70** | 28.03 | 25.16 | **28.70** | **28.70** | 24.29 | 26.13 | 27.63 | 24.57 | **28.00** | **28.00** |
| | | 216 | 0 | 25.35 | 28.57 | 27.73 | 25.11 | 28.19 | 27.56 | 24.24 | 26.24 | 27.36 | 24.52 | 27.55 | 26.32 |
| | QPSK | 1 | 0 | 22.66 | 22.96 | 25.82 | 22.72 | 22.78 | 25.47 | 21.41 | 22.00 | 24.40 | 21.19 | 21.90 | 24.20 |
| | | 1 | 1 | 22.74 | 22.81 | 27.89 | 22.71 | 22.71 | 27.68 | 21.45 | 21.97 | **27.70** | 21.37 | 22.08 | 26.19 |
| | | 1 | 215 | **28.70** | 27.44 | 26.11 | 26.89 | **28.12** | 26.92 | **27.70** | 26.31 | 26.14 | **27.94** | 27.34 | 25.79 |
| | | 1 | 216 | 25.34 | 25.67 | 25.74 | 25.18 | 25.27 | 25.56 | 24.39 | 24.41 | 24.50 | 24.43 | 24.41 | 24.51 |
| | | 108 | 54 | 24.27 | 28.37 | 27.45 | 24.12 | 27.51 | 27.57 | 23.29 | **27.70** | 27.58 | 23.55 | 27.62 | 27.42 |
| | | 216 | 0 | 24.32 | 27.83 | 26.97 | 23.98 | 26.72 | 26.25 | 23.13 | 26.30 | 26.75 | 23.53 | 26.89 | 26.18 |
| | 16QAM | 1 | 0 | 22.81 | 23.40 | 25.74 | 22.93 | 22.94 | 25.71 | 21.26 | 22.33 | 24.57 | 21.50 | 22.11 | 24.31 |
| | | 1 | 1 | 23.00 | 23.13 | 27.58 | 22.91 | 22.87 | 27.09 | 21.26 | 22.27 | **27.16** | 21.36 | 21.93 | 26.29 |
| | | 1 | 215 | **28.04** | 26.89 | 25.90 | **27.15** | 26.57 | 26.22 | 26.80 | 26.47 | 25.86 | **27.03** | 26.54 | 25.96 |
| | | 1 | 216 | 25.49 | 25.87 | 25.30 | 25.39 | 25.46 | 25.33 | 24.24 | 24.72 | 24.67 | 24.71 | 24.45 | 24.76 |
| | | 108 | 54 | 23.78 | 27.92 | 26.89 | 23.62 | 26.90 | 26.96 | 22.77 | 26.20 | 26.84 | 23.12 | 26.90 | 26.49 |
| | | 216 | 0 | 23.83 | 27.03 | 26.30 | 23.50 | 25.91 | 25.60 | 22.62 | 25.91 | 25.68 | 23.02 | 25.78 | 25.52 |
| | 64QAM | 1 | 0 | 22.15 | 22.49 | 25.75 | 22.38 | 22.35 | 25.64 | 21.03 | 21.69 | 24.51 | 20.90 | 21.44 | 24.34 |
| | | 1 | 1 | 22.63 | 22.25 | 26.76 | 22.35 | 22.34 | 25.88 | 21.08 | 21.58 | 25.56 | 20.78 | 21.75 | 25.05 |
| | | 1 | 215 | **26.80** | 26.08 | 25.16 | **26.03** | 25.10 | 25.07 | **25.61** | 25.26 | 25.18 | **25.45** | 24.73 | 24.84 |
| | | 1 | 216 | 25.27 | 25.97 | 25.15 | 25.29 | 24.97 | 25.05 | 24.56 | 24.45 | 24.65 | 24.38 | 24.53 | 24.41 |
| | | 108 | 54 | 23.76 | 26.46 | 25.96 | 23.57 | 25.51 | 25.53 | 22.78 | 25.26 | 25.31 | 23.06 | 25.38 | 25.20 |
| | | 216 | 0 | 23.78 | 26.47 | 26.08 | 23.48 | 25.45 | 25.13 | 22.58 | 25.29 | 25.13 | 23.02 | 25.41 | 24.87 |
| | 256QAM | 1 | 0 | 20.69 | 20.73 | 24.36 | 20.65 | 20.65 | 24.21 | 19.37 | 19.94 | 23.28 | 18.99 | 19.95 | 23.14 |
| | | 1 | 1 | 20.61 | 20.84 | **24.73** | 20.63 | 20.63 | **24.26** | 19.40 | 19.83 | 23.33 | 19.30 | 19.74 | 23.26 |
| | | 1 | 215 | 24.32 | 24.49 | 24.16 | 24.08 | 23.23 | 23.41 | 23.37 | 23.39 | 23.42 | 22.98 | 23.25 | 23.07 |
| | | 1 | 216 | 24.33 | 24.37 | 24.17 | 24.08 | 23.12 | 23.39 | 23.37 | **23.53** | 23.43 | 23.23 | **23.49** | 23.36 |
| | | 108 | 54 | 22.28 | 24.35 | 24.65 | 22.08 | 24.11 | 24.10 | 21.24 | 23.23 | 23.30 | 21.49 | 23.27 | 23.31 |
| | | 216 | 0 | 22.23 | 24.34 | 24.63 | 21.97 | 23.99 | 23.63 | 21.07 | 23.32 | 23.14 | 21.46 | 23.33 | 23.33 |

## OUTPUT POWER FOR 5G NR n41 (90.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 2 | | | ANT 1 | | | ANT 4 | | | ANT 3 | | |
| | | | | 508200 | 518600 | 529000 | 508200 | 518600 | 529000 | 508200 | 518600 | 529000 | 508200 | 518600 | 529000 |
| | | | | 2541.0 | 2593.0 | 2645.0 | 2541.0 | 2593.0 | 2645.0 | 2541.0 | 2593.0 | 2645.0 | 2541.0 | 2593.0 | 2645.0 |
| 90.0 | BPSK | 1 | 0 | 23.26 | 23.31 | 25.43 | 23.21 | 23.78 | 25.16 | 21.84 | 22.30 | 24.36 | 22.03 | 22.44 | 24.51 |
| | | 1 | 1 | 23.20 | 23.42 | **28.70** | 23.16 | 23.79 | **28.70** | 21.83 | 22.28 | **27.70** | 22.10 | 22.59 | **28.00** |
| | | 1 | 243 | 28.62 | 28.12 | 26.74 | **28.70** | 28.40 | 27.35 | 27.65 | 27.65 | 26.66 | **28.00** | 27.94 | 27.57 |
| | | 1 | 244 | 25.38 | 25.80 | 25.77 | 25.14 | 25.79 | 25.27 | 24.30 | 24.32 | 24.52 | 24.35 | 24.48 | 24.46 |
| | | 120 | 60 | 25.32 | **28.70** | 28.08 | 25.10 | 28.50 | 27.72 | 24.28 | 27.48 | 27.64 | 24.66 | **28.00** | 27.99 |
| | | 243 | 0 | 25.35 | 28.57 | 27.88 | 24.99 | **28.70** | 27.53 | 24.11 | 27.15 | 27.33 | 24.66 | 27.59 | 26.78 |
| | QPSK | 1 | 0 | 22.61 | 22.87 | 25.66 | 22.65 | 23.32 | 25.20 | 21.35 | 21.79 | 24.37 | 21.47 | 22.07 | 24.31 |
| | | 1 | 1 | 22.85 | 22.86 | 28.26 | 22.69 | 23.29 | 27.97 | 21.34 | 21.79 | 27.68 | 21.50 | 22.00 | 26.98 |
| | | 1 | 243 | **28.70** | 27.42 | 26.26 | 26.48 | **28.56** | 26.90 | **27.70** | **27.70** | 26.18 | 26.40 | 27.68 | 26.16 |
| | | 1 | 244 | 25.60 | 25.67 | 25.81 | 25.14 | 25.80 | 25.34 | 24.29 | 24.39 | 24.56 | 24.46 | 24.62 | 24.58 |
| | | 120 | 60 | 24.36 | 28.51 | 27.49 | 24.10 | 28.04 | 27.18 | 23.25 | 27.43 | 27.58 | 23.64 | **27.72** | 27.20 |
| | | 243 | 0 | 24.31 | 27.94 | 27.11 | 23.92 | 27.08 | 25.97 | 23.02 | 26.51 | 26.69 | 23.63 | 26.71 | 26.50 |
| | 16QAM | 1 | 0 | 22.46 | 23.18 | 25.74 | 22.89 | 23.47 | 25.38 | 21.53 | 21.98 | 24.53 | 21.60 | 22.26 | 24.36 |
| | | 1 | 1 | 22.39 | 23.10 | 27.87 | 22.91 | 23.49 | 27.19 | 21.53 | 21.97 | **27.25** | 21.65 | 22.31 | **27.24** |
| | | 1 | 243 | 27.78 | 26.97 | 25.98 | 26.98 | 26.96 | 25.97 | 27.15 | 27.18 | 25.91 | 27.13 | 26.49 | 26.42 |
| | | 1 | 244 | 25.31 | 26.01 | 25.51 | 25.36 | 26.00 | 25.10 | 24.50 | 24.61 | 24.74 | 24.39 | 24.88 | 24.68 |
| | | 120 | 60 | 23.82 | **27.95** | 27.02 | 23.61 | **27.41** | 26.72 | 22.66 | 26.68 | 26.83 | 23.18 | 26.98 | 26.42 |
| | | 243 | 0 | 23.83 | 26.96 | 26.52 | 23.42 | 26.35 | 25.27 | 22.47 | 25.46 | 25.60 | 23.10 | 25.85 | 25.52 |
| | 64QAM | 1 | 0 | 22.54 | 22.36 | 25.85 | 22.35 | 22.90 | 25.33 | 20.92 | 21.38 | 24.63 | 21.16 | 21.70 | 24.58 |
| | | 1 | 1 | 22.39 | 22.14 | **26.83** | 22.33 | 22.98 | 25.97 | 20.96 | 21.38 | **25.67** | 21.19 | 21.64 | **25.71** |
| | | 1 | 243 | 26.50 | 26.29 | 25.34 | 25.80 | 25.49 | 24.72 | 25.58 | 25.59 | 25.19 | 25.61 | 25.16 | 25.05 |
| | | 1 | 244 | 25.54 | 25.95 | 25.19 | 25.27 | 25.45 | 24.70 | 24.54 | 24.55 | 24.73 | 24.41 | 24.65 | 24.48 |
| | | 120 | 60 | 23.79 | 26.38 | 26.05 | 23.59 | **26.08** | 25.22 | 22.75 | 25.18 | 25.32 | 23.15 | 25.42 | 25.06 |
| | | 243 | 0 | 23.79 | 26.41 | 26.27 | 23.38 | 25.91 | 24.86 | 22.49 | 24.94 | 25.09 | 23.12 | 25.22 | 25.07 |
| | 256QAM | 1 | 0 | 20.59 | 20.75 | **24.65** | 20.62 | 21.17 | 24.18 | 19.25 | 19.72 | 23.39 | 19.40 | 19.97 | 23.37 |
| | | 1 | 1 | 20.59 | 20.92 | 24.54 | 20.59 | 21.25 | 24.17 | 19.27 | 19.74 | 23.41 | 19.29 | 20.09 | 23.14 |
| | | 1 | 243 | 24.17 | 24.43 | 24.32 | 24.14 | 23.95 | 23.21 | 23.33 | 23.32 | **23.51** | 23.20 | 23.30 | **23.50** |
| | | 1 | 244 | 24.36 | 24.28 | 24.28 | 24.10 | 23.89 | 23.19 | 23.33 | 23.33 | 23.45 | 23.36 | 23.37 | **23.50** |
| | | 120 | 60 | 22.21 | 24.42 | 24.52 | 22.05 | **24.67** | 23.79 | 21.18 | 23.11 | 23.35 | 21.66 | 23.38 | 23.45 |
| | | 243 | 0 | 22.25 | 24.41 | 24.52 | 21.87 | 24.39 | 23.37 | 20.94 | 22.91 | 23.13 | 21.60 | 23.41 | 23.48 |

## OUTPUT POWER FOR 5G NR n41 (100.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 2 | | | ANT 1 | | | ANT 4 | | | ANT 3 | | |
| | | | | 509200 | 528600 | 528000 | 509200 | 528600 | 528000 | 509200 | 528600 | 528000 | 509200 | 528600 | 528000 |
| | | | | 2546.0 | 2593.0 | 2640.0 | 2546.0 | 2593.0 | 2640.0 | 2546.0 | 2593.0 | 2640.0 | 2546.0 | 2593.0 | 2640.0 |
| 100.0 | BPSK | 1 | 0 | 23.23 | 23.37 | 24.13 | 23.36 | 23.64 | 23.77 | 21.89 | 22.26 | 22.29 | 21.83 | 22.59 | 22.46 |
| | | 1 | 1 | 23.12 | 23.29 | 24.18 | 23.34 | 23.63 | 23.82 | 21.90 | 22.27 | 22.41 | 21.75 | 22.62 | 22.43 |
| | | 1 | 271 | **28.70** | 27.96 | 27.53 | **28.70** | 28.07 | 27.95 | 27.67 | 27.64 | 26.87 | **28.00** | 27.86 | 27.48 |
| | | 1 | 272 | 25.54 | 25.62 | 26.44 | 25.37 | 25.70 | 26.00 | 24.41 | 24.29 | 24.50 | 24.51 | 24.52 | 24.76 |
| | | 135 | 67 | 25.30 | **28.70** | **28.70** | 25.25 | 28.55 | 28.52 | 24.38 | 27.44 | **27.70** | 24.62 | **28.00** | **28.00** |
| | | 270 | 0 | 25.28 | 28.49 | 28.54 | 25.10 | 28.57 | 27.62 | 24.20 | 27.10 | 27.27 | 24.45 | 27.55 | 27.29 |
| | QPSK | 1 | 0 | 22.57 | 22.89 | 23.71 | 22.87 | 23.23 | 23.40 | 21.42 | 21.80 | 21.93 | 21.21 | 22.20 | 21.88 |
| | | 1 | 1 | 22.63 | 22.72 | 23.70 | 22.88 | 23.24 | 23.34 | 21.41 | 21.86 | 21.90 | 21.28 | 22.10 | 21.87 |
| | | 1 | 271 | 27.89 | 27.20 | 27.22 | 26.48 | **28.70** | 27.04 | **27.70** | **27.70** | 26.37 | 26.89 | **27.82** | 26.95 |
| | | 1 | 272 | 25.37 | 25.58 | 26.62 | 25.28 | 25.73 | 25.97 | 24.41 | 24.31 | 24.52 | 24.28 | 24.61 | 24.65 |
| | | 135 | 67 | 24.36 | **28.27** | 28.08 | 24.19 | 28.11 | 27.99 | 23.32 | 27.40 | 27.65 | 23.57 | 27.57 | 27.37 |
| | | 270 | 0 | 24.26 | 27.65 | 27.74 | 23.98 | 26.93 | 26.77 | 23.08 | 26.46 | 26.65 | 23.47 | 26.59 | 26.58 |
| | 16QAM | 1 | 0 | 23.01 | 23.31 | 24.01 | 23.12 | 23.40 | 23.58 | 21.58 | 21.97 | 22.10 | 21.74 | 22.21 | 22.25 |
| | | 1 | 1 | 22.75 | 22.92 | 23.72 | 23.08 | 23.41 | 23.51 | 21.61 | 22.04 | 22.08 | 21.68 | 22.42 | 21.97 |
| | | 1 | 271 | 27.45 | 26.73 | 26.90 | 26.99 | 26.84 | 26.93 | 27.17 | **27.19** | 26.02 | **27.37** | 26.54 | 26.45 |
| | | 1 | 272 | 25.65 | 25.69 | 26.09 | 25.57 | 25.89 | 25.92 | 24.61 | 24.51 | 24.74 | 24.89 | 24.74 | 24.75 |
| | | 135 | 67 | 23.86 | **27.79** | 27.55 | 23.74 | 27.21 | **27.31** | 22.85 | 26.69 | 26.87 | 23.04 | 26.96 | 26.36 |
| | | 270 | 0 | 23.80 | 26.95 | 27.05 | 23.53 | 26.26 | 26.10 | 22.54 | 25.41 | 25.57 | 22.98 | 25.86 | 25.76 |
| | 64QAM | 1 | 0 | 22.16 | 22.56 | 23.52 | 22.51 | 22.91 | 22.97 | 21.02 | 21.40 | 21.57 | 20.51 | 21.65 | 21.51 |
| | | 1 | 1 | 22.32 | 22.41 | 23.19 | 22.52 | 22.86 | 23.03 | 21.04 | 21.47 | 21.50 | 21.15 | 21.87 | 21.73 |
| | | 1 | 271 | 26.35 | 25.74 | 26.21 | 25.85 | 25.63 | 25.71 | 25.59 | **25.61** | 25.16 | 25.25 | 25.13 | 25.23 |
| | | 1 | 272 | 25.59 | 25.81 | 25.82 | 25.48 | 25.74 | 25.58 | 24.56 | 24.47 | 24.75 | 24.25 | 24.31 | 25.11 |
| | | 135 | 67 | 23.86 | 26.45 | 26.57 | 23.76 | **25.94** | 25.87 | 22.81 | 25.13 | 25.38 | 23.02 | **25.43** | 25.06 |
| | | 270 | 0 | 23.85 | 26.42 | **26.82** | 23.48 | 25.61 | 25.69 | 22.55 | 24.89 | 25.13 | 22.91 | 25.40 | 25.19 |
| | 256QAM | 1 | 0 | 20.74 | 20.37 | 21.46 | 20.77 | 21.15 | 21.25 | 19.34 | 19.77 | 19.85 | 19.53 | 19.86 | 20.05 |
| | | 1 | 1 | 20.53 | 20.80 | 21.49 | 20.78 | 21.11 | 21.30 | 19.34 | 19.78 | 19.80 | 19.24 | 20.02 | 19.81 |
| | | 1 | 271 | 24.51 | 24.71 | 24.85 | 24.11 | 23.82 | 24.00 | 23.33 | 23.35 | 23.50 | 23.48 | 23.50 | **23.51** |
| | | 1 | 272 | 24.28 | 24.39 | 24.76 | 23.93 | 23.86 | 23.95 | 23.35 | 23.34 | **23.52** | 23.25 | 23.38 | 23.47 |
| | | 135 | 67 | 22.21 | 24.33 | **25.24** | 22.26 | 24.53 | **24.61** | 21.23 | 23.07 | 23.33 | 21.54 | 23.30 | 23.41 |
| | | 270 | 0 | 22.23 | 24.42 | 25.23 | 22.05 | 24.33 | 24.09 | 21.04 | 22.88 | 23.12 | 21.53 | 23.44 | 23.41 |

## 8.4. LTE BAND 48

**Test Engineer ID:** 39004 **Test Date:** 4/25/2022

### OUTPUT POWER FOR LTE BAND 48 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 7 | | | ANT 8 | | | ANT 9 | | | ANT 4 | | |
| | | | | 55265 | 55990 | 56715 | 55260 | 55990 | 56715 | 55265 | 55990 | 56715 | 55260 | 55990 | 56715 |
| | | | | 3552.5 | 3625.0 | 3697.5 | 3552.5 | 3625.0 | 3697.5 | 3552.5 | 3625.0 | 3697.5 | 3552.5 | 3625.0 | 3697.5 |
| 5.0 | QPSK | 1 | 0 | 23.79 | 23.84 | 23.83 | 23.19 | 23.17 | 23.23 | 21.15 | 21.20 | 21.17 | 22.66 | 22.76 | 22.71 |
| | | 1 | 12 | **23.90** | **23.90** | **23.90** | **23.30** | **23.30** | **23.30** | **21.30** | **21.30** | **21.30** | **22.80** | **22.80** | **22.80** |
| | | 1 | 24 | 23.87 | 23.88 | 23.85 | 23.26 | **23.30** | 23.27 | 21.26 | 21.24 | 21.24 | 22.72 | 22.77 | 22.77 |
| | | 12 | 0 | 23.17 | 23.21 | 23.20 | 22.54 | 22.74 | 22.66 | 20.54 | 20.59 | 20.57 | 21.76 | 21.81 | 21.74 |
| | | 12 | 6 | 23.21 | 23.23 | 23.21 | 22.63 | 22.73 | 22.63 | 20.57 | 20.61 | 20.59 | 21.68 | 21.82 | 21.80 |
| | | 12 | 11 | 23.17 | 23.22 | 23.16 | 22.56 | 22.62 | 22.58 | 20.59 | 20.53 | 20.53 | 21.67 | 21.77 | 21.73 |
| | | 25 | 0 | 23.17 | 23.21 | 23.19 | 22.59 | 22.55 | 22.58 | 20.55 | 20.54 | 20.52 | 21.67 | 21.77 | 21.74 |
| | 16QAM | 1 | 0 | 23.38 | 23.48 | 23.40 | 22.75 | 22.91 | 22.87 | 20.77 | 20.96 | 20.89 | 21.95 | 22.28 | 22.08 |
| | | 1 | 12 | **23.53** | **23.58** | **23.51** | **22.85** | **22.98** | **23.00** | **20.95** | **21.09** | **20.93** | **22.14** | **22.41** | **22.23** |
| | | 1 | 24 | 23.46 | 23.49 | 23.43 | 22.84 | 22.92 | 22.87 | 20.89 | 21.05 | 20.91 | 22.04 | 22.26 | 22.17 |
| | | 12 | 0 | 22.21 | 22.28 | 22.25 | 21.59 | 21.69 | 21.70 | 19.69 | 19.61 | 19.66 | 20.85 | 20.76 | 20.89 |
| | | 12 | 6 | 22.23 | 22.30 | 22.27 | 21.64 | 21.75 | 21.69 | 19.70 | 19.62 | 19.66 | 20.80 | 20.77 | 20.91 |
| | | 12 | 11 | 22.22 | 22.26 | 22.23 | 21.63 | 21.55 | 21.72 | 19.65 | 19.59 | 19.64 | 20.75 | 20.72 | 20.85 |
| | | 25 | 0 | 22.18 | 22.23 | 22.23 | 21.61 | 21.50 | 21.62 | 19.61 | 19.57 | 19.54 | 20.66 | 20.81 | 20.77 |
| | 64QAM | 1 | 0 | 22.36 | 22.46 | 22.43 | 21.64 | 21.90 | 21.84 | 19.55 | 19.50 | 19.62 | 22.05 | **21.19** | 21.30 |
| | | 1 | 12 | 22.42 | **22.51** | **22.45** | **21.74** | **21.94** | **21.92** | **19.62** | 19.54 | **19.67** | **22.12** | **21.19** | 21.37 |
| | | 1 | 24 | **22.45** | 22.47 | 22.44 | **21.74** | 21.93 | 21.90 | 19.61 | **19.55** | 19.63 | 21.18 | 21.17 | **21.38** |
| | | 12 | 0 | 21.20 | 21.19 | 21.20 | 20.49 | 20.68 | 20.69 | 18.29 | 19.47 | 19.62 | 19.87 | 21.17 | 21.36 |
| | | 12 | 6 | 21.25 | 21.21 | 21.21 | 20.51 | 20.70 | 20.68 | 18.33 | 19.48 | 19.62 | 19.92 | 21.15 | 21.36 |
| | | 12 | 11 | 21.23 | 21.17 | 21.20 | 20.51 | 20.68 | 20.66 | 18.32 | 19.46 | 19.60 | 19.86 | 21.17 | **21.38** |
| | | 25 | 0 | 21.16 | 21.24 | 21.20 | **20.57** | 20.66 | **20.66** | 18.34 | 19.48 | 19.62 | **19.91** | **21.18** | **21.31** |
| | 256QAM | 1 | 0 | 19.21 | 19.37 | 19.31 | 18.63 | 18.78 | 18.76 | 16.39 | 16.39 | 16.46 | 18.01 | 18.05 | 18.19 |
| | | 1 | 12 | **19.33** | 19.42 | **19.39** | 18.74 | **18.87** | 18.81 | 16.48 | 16.44 | **16.52** | 18.09 | 18.13 | 18.24 |
| | | 1 | 24 | 19.32 | **19.50** | 19.35 | 18.69 | 18.85 | 18.78 | **16.49** | **16.45** | 16.50 | 18.08 | 18.09 | 18.21 |
| | | 12 | 0 | 19.13 | 19.22 | 19.21 | 18.53 | 18.68 | 18.65 | 16.35 | 16.35 | 16.37 | 17.90 | 18.07 | 18.10 |
| | | 12 | 6 | 19.18 | 19.23 | 19.24 | 18.58 | 18.72 | 18.69 | 16.37 | 16.36 | 16.40 | 17.94 | 18.09 | 18.12 |
| | | 12 | 11 | 19.16 | 19.20 | 19.20 | 18.55 | 18.68 | 18.65 | 16.32 | 16.33 | 16.38 | 17.93 | 18.05 | 18.09 |
| | | 25 | 0 | 19.14 | 19.22 | 19.20 | 18.54 | 18.68 | 18.64 | 16.32 | 16.33 | 16.35 | 17.90 | 18.04 | **18.11** |

### OUTPUT POWER FOR LTE BAND 48 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 7 | | | ANT 8 | | | ANT 9 | | | ANT 4 | | |
| | | | | 55290 | 55990 | 56690 | 55290 | 55990 | 56690 | 55290 | 55990 | 56690 | 55290 | 55990 | 56690 |
| | | | | 3555.0 | 3625.0 | 3695.0 | 3555.0 | 3625.0 | 3695.0 | 3555.0 | 3625.0 | 3695.0 | 3555.0 | 3625.0 | 3695.0 |
| 10.0 | QPSK | 1 | 0 | 23.87 | **23.90** | 23.89 | 23.16 | 23.28 | 23.27 | 21.21 | **21.30** | 21.29 | 22.77 | **22.80** | **22.80** |
| | | 1 | 24 | **23.90** | 23.87 | **23.90** | **23.30** | **23.30** | **23.30** | **21.30** | **21.30** | **21.30** | **22.80** | 22.75 | 22.79 |
| | | 1 | 49 | 23.88 | 23.83 | 23.83 | 23.28 | 23.26 | 23.22 | 21.29 | 21.22 | 21.27 | 22.76 | 22.69 | 22.73 |
| | | 25 | 0 | 23.21 | 23.27 | 23.20 | 22.58 | 22.71 | 22.63 | 20.56 | 20.66 | 20.61 | 22.14 | 22.16 | 22.16 |
| | | 25 | 12 | 23.25 | 23.28 | 23.30 | 22.65 | 22.71 | 22.65 | 20.59 | 20.68 | 20.71 | 22.17 | 22.15 | 22.19 |
| | | 25 | 24 | 23.24 | 23.28 | 23.29 | 22.66 | 22.69 | 22.71 | 20.63 | 20.65 | 20.70 | 22.19 | 22.12 | 22.16 |
| | | 50 | 0 | 23.20 | 23.27 | 23.20 | 22.62 | 22.67 | 22.61 | 20.60 | 20.68 | 20.61 | 22.16 | 22.11 | 22.15 |
| | 16QAM | 1 | 0 | 23.51 | **23.63** | **23.56** | 22.88 | **22.91** | 22.96 | 20.88 | 20.89 | 20.98 | **22.47** | **22.43** | **22.55** |
| | | 1 | 24 | 23.53 | 23.49 | 23.48 | 22.87 | 22.89 | **23.01** | 20.90 | 20.88 | **21.00** | 22.37 | 22.42 | 22.49 |
| | | 1 | 49 | **23.55** | 23.56 | 23.48 | **22.96** | 22.90 | 22.88 | **20.94** | **20.90** | 20.96 | 22.35 | 22.30 | 22.51 |
| | | 25 | 0 | 22.20 | 22.27 | 22.22 | 21.65 | 21.72 | 21.66 | 19.61 | 19.68 | 19.62 | 21.17 | 21.17 | 21.22 |
| | | 25 | 12 | 22.24 | 22.27 | 22.31 | 21.66 | 21.72 | 21.68 | 19.64 | 19.70 | 19.72 | 21.20 | 21.17 | 21.23 |
| | | 25 | 24 | 22.27 | 22.26 | 22.29 | 21.69 | 21.74 | 21.75 | 19.67 | 19.69 | 19.71 | 21.22 | 21.16 | 21.21 |
| | | 50 | 0 | 22.22 | 22.28 | 22.21 | 21.64 | 21.69 | 21.62 | 19.59 | 19.68 | 19.62 | 21.03 | 21.14 | 21.20 |
| | 64QAM | 1 | 0 | 22.40 | **22.62** | 22.51 | 21.72 | **21.79** | 21.91 | 19.51 | 19.63 | 19.69 | 21.32 | 21.54 | 21.57 |
| | | 1 | 24 | 22.44 | 22.54 | **22.52** | **21.82** | 21.78 | **21.97** | **19.57** | 19.66 | 19.71 | 21.39 | **21.56** | 21.57 |
| | | 1 | 49 | **22.49** | 22.54 | 22.50 | 21.80 | 21.73 | 21.87 | 19.56 | 19.65 | 19.69 | **21.41** | 21.55 | 21.57 |
| | | 25 | 0 | 21.18 | 21.29 | 21.21 | 20.64 | 20.64 | 20.64 | 18.36 | **19.69** | 19.71 | 20.17 | 21.53 | **21.58** |
| | | 25 | 12 | 21.24 | 21.30 | 21.33 | 20.68 | 20.65 | 20.67 | 18.40 | 19.63 | **19.72** | 20.21 | 21.54 | 21.57 |
| | | 25 | 24 | 21.24 | 21.28 | 21.31 | 20.68 | 20.66 | 20.73 | 18.41 | 19.67 | **19.72** | 20.23 | 21.52 | **21.58** |
| | | 50 | 0 | 21.19 | 21.26 | 21.19 | 20.64 | 20.66 | 20.63 | 18.38 | 19.68 | 19.71 | 20.19 | 21.55 | **21.58** |
| | 256QAM | 1 | 0 | 19.16 | **19.37** | 19.23 | 18.60 | 18.74 | 18.83 | 16.38 | 16.50 | 16.51 | 18.13 | **18.45** | **18.40** |
| | | 1 | 24 | **19.30** | 19.32 | **19.37** | **18.71** | **18.81** | **18.88** | 16.44 | **16.54** | **16.66** | 18.15 | 18.44 | 18.39 |
| | | 1 | 49 | 19.18 | 19.28 | 19.23 | 18.66 | 18.75 | 18.79 | **16.47** | 16.47 | 16.51 | 18.11 | 18.33 | 18.33 |
| | | 25 | 0 | 19.12 | 19.27 | 19.20 | 18.60 | 18.66 | 18.62 | 16.33 | 16.43 | 16.43 | 18.15 | 18.31 | 18.31 |
| | | 25 | 12 | 19.21 | 19.28 | 19.29 | 18.65 | 18.69 | 18.64 | 16.38 | 16.44 | 16.54 | 18.17 | 18.32 | 18.32 |
| | | 25 | 24 | 19.24 | 19.25 | 19.26 | 18.67 | 18.68 | 18.72 | 16.39 | 16.45 | 16.53 | **18.20** | 18.31 | 18.32 |
| | | 50 | 0 | 19.18 | 19.24 | 19.18 | 18.65 | 18.65 | 18.63 | 16.36 | 16.45 | 16.44 | 18.17 | 18.29 | 18.30 |

## OUTPUT POWER FOR LTE BAND 48 (15.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 7 | | | ANT 8 | | | ANT 9 | | | ANT 4 | | |
| | | | | 55315 | 55990 | 56665 | 55315 | 55990 | 56665 | 55315 | 55990 | 56665 | 55315 | 55990 | 56665 |
| | | | | 3557.5 | 3625.0 | 3692.5 | 3557.5 | 3625.0 | 3692.5 | 3557.5 | 3625.0 | 3692.5 | 3557.5 | 3625.0 | 3692.5 |
| 15.0 | QPSK | 1 | 0 | 23.80 | 22.88 | 23.80 | 23.12 | 23.23 | 23.18 | 20.66 | 19.73 | 19.43 | 22.66 | 22.79 | 22.71 |
| | | 1 | 37 | **23.90** | 22.91 | **23.90** | 23.26 | **23.30** | **23.30** | 20.76 | 19.77 | 19.60 | 22.78 | **22.80** | **22.80** |
| | | 1 | 74 | 23.87 | 22.86 | 23.87 | **23.30** | 23.25 | 23.14 | **20.79** | 19.75 | 19.45 | **22.80** | **22.80** | 22.76 |
| | | 36 | 0 | 23.18 | 22.33 | 23.20 | 22.56 | 22.71 | 22.55 | 20.06 | 19.15 | 18.81 | 22.13 | 22.21 | 22.12 |
| | | 36 | 16 | 23.22 | 22.32 | 23.22 | 22.60 | 22.69 | 22.56 | 20.11 | 19.16 | 18.84 | 22.16 | 22.20 | 22.14 |
| | | 36 | 35 | 23.26 | 22.31 | 23.30 | 22.62 | 22.70 | 22.64 | 20.15 | 19.17 | 18.93 | 22.18 | 22.20 | 22.14 |
| | | 75 | 0 | 23.00 | **23.90** | 22.96 | 23.01 | 22.34 | **23.30** | **20.79** | **21.30** | **21.19** | 22.00 | 21.86 | 21.92 |
| | 16QAM | 1 | 0 | 23.44 | 22.57 | 23.54 | 22.79 | 22.91 | 22.87 | 20.36 | 19.46 | 19.12 | 22.39 | 22.47 | 22.36 |
| | | 1 | 37 | 23.54 | 22.50 | **23.64** | 23.01 | **22.96** | 22.95 | 20.39 | 19.52 | 19.23 | 22.30 | **22.64** | 22.43 |
| | | 1 | 74 | **23.59** | 22.45 | 23.56 | 22.98 | 22.90 | 22.84 | 20.43 | 19.37 | 19.22 | **22.45** | 22.56 | **22.46** |
| | | 36 | 0 | 22.23 | 21.34 | 22.25 | 21.60 | 21.71 | 21.57 | 19.09 | 18.16 | 17.82 | 21.15 | 21.24 | 21.16 |
| | | 36 | 16 | 22.26 | 21.34 | 22.26 | 21.63 | 21.71 | 21.59 | 19.16 | 18.19 | 17.85 | 21.22 | 21.22 | 21.17 |
| | | 36 | 35 | 22.30 | 21.32 | 22.33 | 21.65 | 21.69 | 21.65 | 19.16 | 18.17 | 17.95 | 21.24 | 21.24 | 21.18 |
| | | 75 | 0 | 23.00 | **22.92** | 22.95 | **23.03** | 22.35 | **23.30** | **20.49** | **21.30** | **21.19** | 22.00 | 21.87 | 21.89 |
| | 64QAM | 1 | 0 | 22.45 | 21.65 | 22.59 | 21.78 | 21.95 | 21.81 | 18.99 | 18.14 | 17.83 | 21.43 | 21.43 | 21.52 |
| | | 1 | 37 | 22.58 | 21.57 | 22.50 | 21.83 | 21.95 | 21.91 | 19.10 | 18.10 | 17.89 | 21.47 | 21.56 | 21.33 |
| | | 1 | 74 | 22.55 | 21.69 | 22.44 | 21.83 | 21.89 | 21.96 | 19.08 | 18.17 | 17.87 | **21.53** | 21.57 | 21.49 |
| | | 36 | 0 | 21.23 | 20.33 | 21.23 | 20.54 | 20.68 | 20.53 | 17.87 | 18.07 | 17.73 | 20.30 | 21.62 | 21.32 |
| | | 36 | 16 | 21.26 | 20.34 | 21.24 | 20.60 | 20.69 | 20.55 | 17.91 | 18.08 | 17.87 | 20.34 | 21.49 | 21.51 |
| | | 36 | 35 | 21.30 | 20.34 | 21.31 | 20.62 | 20.69 | 20.61 | 17.95 | 18.03 | 17.88 | 20.36 | 21.60 | 21.41 |
| | | 75 | 0 | **23.00** | **21.92** | **22.95** | **22.97** | **22.31** | **23.30** | **21.30** | **21.24** | **21.30** | 20.97 | **21.89** | **22.00** |
| | 256QAM | 1 | 0 | 19.30 | 18.45 | 19.33 | 18.53 | 18.74 | 18.79 | 15.79 | 15.02 | 14.59 | 18.15 | 18.40 | 18.28 |
| | | 1 | 37 | 19.39 | 18.39 | **19.50** | 18.70 | 18.72 | 18.73 | **15.93** | 15.08 | 14.75 | **18.38** | 18.43 | **18.39** |
| | | 1 | 74 | **19.50** | **18.50** | 19.35 | **18.80** | **18.84** | **18.94** | 15.90 | **15.14** | **14.79** | 18.34 | **18.57** | 18.27 |
| | | 36 | 0 | 19.21 | 18.31 | 19.21 | 18.51 | 18.67 | 18.54 | 15.85 | 14.95 | 14.63 | 18.28 | 18.35 | 18.27 |
| | | 36 | 16 | 19.26 | 18.32 | 19.21 | 18.58 | 18.65 | 18.53 | 15.89 | 14.93 | 14.66 | 18.32 | 18.34 | 18.29 |
| | | 36 | 35 | 19.31 | 18.32 | 19.30 | 18.59 | 18.65 | 18.60 | 15.92 | 14.93 | 14.75 | 18.34 | 18.35 | 18.29 |
| | | 75 | 0 | 19.28 | 18.33 | 19.20 | 18.57 | 18.66 | 18.52 | 15.89 | 14.94 | 14.67 | 18.32 | 18.36 | 18.26 |

## OUTPUT POWER FOR LTE BAND 48 (20.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 7 | | | ANT 8 | | | ANT 9 | | | ANT 4 | | |
| | | | | 55340 | 55990 | 56640 | 55340 | 55990 | 56640 | 55340 | 55990 | 56640 | 55340 | 55990 | 56640 |
| | | | | 3560.0 | 3625.0 | 3690.0 | 3560.0 | 3625.0 | 3690.0 | 3560.0 | 3625.0 | 3690.0 | 3560.0 | 3625.0 | 3690.0 |
| 20.0 | QPSK | 1 | 0 | 23.79 | 22.95 | 23.85 | 23.22 | 21.74 | 23.28 | 19.53 | 17.65 | 19.56 | 22.69 | 21.68 | **22.80** |
| | | 1 | 49 | **23.90** | 22.95 | **23.90** | **23.30** | 21.74 | **23.30** | 19.60 | 17.68 | 19.60 | **22.80** | 21.67 | **22.80** |
| | | 1 | 99 | **23.90** | 22.92 | **23.90** | **23.30** | 21.70 | **23.30** | 19.60 | 17.68 | 19.60 | **22.80** | 21.63 | **22.80** |
| | | 50 | 0 | 22.91 | 22.95 | 22.86 | 22.86 | 21.73 | 22.90 | 21.23 | 17.66 | 21.16 | 21.90 | 21.67 | 21.93 |
| | | 50 | 24 | 22.97 | 22.94 | 23.00 | 23.00 | 21.74 | 22.93 | 21.29 | 17.68 | **21.30** | 21.98 | 21.68 | 22.00 |
| | | 50 | 49 | 23.00 | 22.93 | 22.99 | 23.00 | 21.72 | 23.00 | **21.30** | 17.67 | **21.30** | 22.00 | 21.66 | 21.98 |
| | | 100 | 0 | 23.00 | **23.90** | 22.98 | 23.00 | **23.30** | 23.00 | **21.30** | **21.30** | **21.30** | 22.00 | **22.80** | 21.88 |
| | 16QAM | 1 | 0 | 23.44 | 22.72 | 23.52 | 22.81 | 21.39 | 22.96 | 19.13 | 17.41 | 19.34 | 22.44 | 21.44 | 22.43 |
| | | 1 | 49 | **23.86** | 22.86 | **23.81** | **23.17** | 21.54 | **23.09** | 19.47 | 17.60 | 19.31 | **22.70** | 21.68 | **22.58** |
| | | 1 | 99 | 23.54 | 22.61 | 23.63 | 22.92 | 21.37 | 22.93 | 19.32 | 17.32 | 19.29 | 22.53 | 21.27 | 22.44 |
| | | 50 | 0 | 21.92 | 21.96 | 21.89 | 21.87 | 20.76 | 21.91 | 20.25 | 16.71 | 20.18 | 20.96 | 20.71 | 20.98 |
| | | 50 | 24 | 21.99 | 21.96 | 22.00 | 21.99 | 20.76 | 21.96 | 20.31 | 16.71 | 20.33 | 21.01 | 20.69 | 21.01 |
| | | 50 | 49 | 22.03 | 21.96 | 21.99 | 22.03 | 20.73 | 22.03 | 20.33 | 16.71 | 20.32 | 21.04 | 20.69 | 21.00 |
| | | 100 | 0 | 23.00 | **22.92** | 22.98 | 22.98 | **22.30** | 23.00 | **21.30** | **20.31** | **21.30** | 22.00 | **21.80** | 21.90 |
| | 64QAM | 1 | 0 | 22.44 | 21.57 | 22.46 | 21.76 | 20.34 | 21.89 | 17.88 | 16.04 | 17.77 | 21.32 | 20.31 | 21.50 |
| | | 1 | 49 | 22.64 | 21.69 | 22.65 | 21.92 | 20.46 | 21.90 | 18.07 | 16.06 | 17.78 | 21.41 | 20.40 | 21.38 |
| | | 1 | 99 | 22.41 | 21.59 | 22.47 | 21.85 | 20.32 | 21.84 | 18.01 | 15.91 | 17.77 | **21.54** | 20.39 | 21.58 |
| | | 50 | 0 | 20.91 | 20.94 | 20.87 | 20.86 | 19.75 | 20.93 | 19.03 | 16.57 | 20.06 | 20.07 | 20.92 | 21.29 |
| | | 50 | 24 | 20.98 | 20.96 | 20.98 | 20.98 | 19.75 | 20.91 | 19.09 | 16.60 | 20.14 | 20.13 | 21.03 | 21.30 |
| | | 50 | 49 | 20.99 | 20.93 | 20.96 | 21.02 | 19.75 | 21.01 | 19.11 | 16.57 | 20.08 | 20.16 | 20.96 | 21.21 |
| | | 100 | 0 | **23.00** | **21.89** | **23.00** | **23.00** | **21.31** | **22.90** | **21.17** | **20.24** | **21.30** | 21.01 | **22.12** | **22.00** |
| | 256QAM | 1 | 0 | 19.33 | 18.49 | 19.35 | 18.52 | 17.19 | 18.62 | 15.02 | 13.03 | 14.81 | 18.32 | 17.44 | **18.56** |
| | | 1 | 49 | 19.44 | 18.45 | 19.30 | 18.85 | 17.16 | 18.56 | 14.92 | 12.98 | 14.90 | **18.48** | 17.51 | 18.47 |
| | | 1 | 99 | **19.50** | 18.41 | **19.43** | 18.88 | 17.21 | 18.85 | 14.87 | 13.08 | 14.91 | 18.47 | 17.36 | 18.49 |
| | | 50 | 0 | 18.89 | **18.94** | 18.83 | 18.85 | 17.74 | 18.92 | 17.02 | 13.43 | 16.96 | 18.04 | 17.84 | 18.13 |
| | | 50 | 24 | 18.97 | **18.94** | 18.95 | **19.00** | **17.75** | 18.93 | 17.08 | **13.45** | 17.10 | 18.13 | **17.86** | 18.17 |
| | | 50 | 49 | 18.99 | 18.92 | 18.96 | **19.00** | **17.75** | **18.99** | **17.11** | 13.43 | **17.11** | 18.16 | 17.84 | 18.18 |
| | | 100 | 0 | 18.95 | 18.92 | 18.94 | 18.97 | 17.73 | 18.93 | 17.05 | 13.41 | 17.07 | 18.11 | 17.84 | 18.13 |

# 8.5. LTE BAND 66 AND 5G NR n66

**Test Engineer ID:** 39004 **Test Date:** 4/25/2022

## OUTPUT POWER FOR LTE BAND 66 (1.4 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 131979 | 132322 | 132665 | 131979 | 132322 | 132665 | 131979 | 132322 | 132665 | 131979 | 132322 | 132665 |
| | | | | 1710.7 | 1745.0 | 1779.3 | 1710.7 | 1745.0 | 1779.3 | 1710.7 | 1745.0 | 1779.3 | 1710.7 | 1745.0 | 1779.3 |
| 1.4 | QPSK | 1 | 0 | **25.70** | 25.55 | 25.64 | 25.67 | 25.44 | 25.53 | 24.56 | 25.10 | 25.14 | 24.13 | 24.00 | 24.00 |
| | | 1 | 2 | 25.69 | 25.61 | 25.62 | **25.70** | 25.50 | 25.58 | 24.60 | 25.13 | **25.20** | 24.19 | 24.02 | 24.04 |
| | | 1 | 5 | 25.69 | 25.57 | 25.63 | 25.66 | 25.46 | 25.56 | 24.55 | 25.12 | 25.15 | 24.18 | 24.01 | 24.02 |
| | | 3 | 0 | 25.68 | 25.58 | 25.63 | 25.67 | 25.43 | 25.52 | 24.54 | 25.13 | 25.13 | 24.17 | 23.98 | 24.01 |
| | | 3 | 1 | 25.67 | 25.58 | 25.63 | 25.68 | 25.44 | 25.53 | 24.55 | 25.10 | 25.12 | 24.19 | 23.99 | 24.03 |
| | | 3 | 2 | 25.62 | 25.57 | 25.62 | 25.68 | 25.44 | 25.56 | 24.55 | 25.12 | 25.14 | **24.20** | 23.98 | 24.04 |
| | | 6 | 0 | 24.98 | 24.84 | 24.94 | 24.96 | 24.73 | 24.82 | 23.53 | 24.10 | 24.12 | 23.14 | 22.97 | 23.03 |
| | 16QAM | 1 | 0 | 25.21 | 25.03 | 25.13 | 25.21 | 25.07 | 25.17 | 23.89 | 24.24 | **24.50** | 23.45 | 23.25 | 23.28 |
| | | 1 | 2 | 25.19 | 25.11 | 25.13 | 25.18 | 25.05 | **25.23** | 23.89 | 24.31 | 24.48 | **23.47** | 23.30 | 23.30 |
| | | 1 | 5 | **25.25** | 25.04 | 25.11 | 25.18 | 25.07 | 25.18 | 23.91 | 24.33 | 24.49 | 23.42 | 23.25 | 23.23 |
| | | 3 | 0 | 25.14 | 25.02 | 25.13 | 25.15 | 24.91 | 25.03 | 23.72 | 24.25 | 24.32 | 23.30 | 23.16 | 23.20 |
| | | 3 | 1 | 25.17 | 25.00 | 25.12 | 25.12 | 24.88 | 25.02 | 23.73 | 24.24 | 24.33 | 23.32 | 23.14 | 23.20 |
| | | 3 | 2 | 25.15 | 25.01 | 25.14 | 25.14 | 24.91 | 25.03 | 23.71 | 24.27 | 24.30 | 23.32 | 23.14 | 23.24 |
| | | 6 | 0 | 24.01 | 23.95 | 24.02 | 23.95 | 23.82 | 23.85 | 22.61 | 23.15 | 23.15 | 22.21 | 22.06 | 22.07 |
| | 64QAM | 1 | 0 | **24.29** | 24.15 | 24.02 | **24.24** | 23.93 | 24.05 | 22.88 | 22.63 | 22.56 | 21.34 | 21.10 | 21.21 |
| | | 1 | 2 | 24.19 | 24.14 | 24.12 | 24.14 | 24.04 | 24.20 | **22.93** | 22.70 | 22.64 | **21.40** | 21.12 | 21.23 |
| | | 1 | 5 | 24.28 | 24.17 | 24.05 | 24.19 | 24.00 | 24.06 | 22.81 | 22.66 | 22.61 | 21.35 | 20.99 | 21.23 |
| | | 3 | 0 | 24.06 | 24.02 | 24.00 | 24.07 | 23.81 | 23.97 | 22.65 | 22.72 | 22.64 | 21.18 | 21.10 | 21.24 |
| | | 3 | 1 | 24.07 | 23.99 | 24.02 | 24.07 | 23.85 | 23.99 | 22.67 | 22.69 | 22.60 | 21.20 | 21.04 | 21.23 |
| | | 3 | 2 | 24.09 | 23.98 | 24.02 | 24.07 | 23.83 | 23.98 | 22.64 | 22.68 | 22.58 | 21.21 | 21.02 | 21.22 |
| | | 6 | 0 | 23.00 | 22.97 | 22.86 | 22.99 | 22.70 | 22.83 | 21.52 | 22.60 | 22.60 | 20.21 | 21.04 | 21.25 |
| | 256QAM | 1 | 0 | 21.06 | 21.01 | 21.00 | 20.96 | 20.79 | 20.89 | 19.64 | 19.45 | 19.52 | 18.14 | 18.02 | 18.08 |
| | | 1 | 2 | **21.07** | 20.97 | **21.07** | 21.03 | 20.83 | 20.87 | **19.68** | 19.57 | 19.52 | **18.15** | 18.08 | 18.09 |
| | | 1 | 5 | 20.98 | 21.00 | 21.03 | 20.88 | 20.81 | 20.86 | 19.57 | 19.56 | 19.47 | 18.05 | 18.01 | 18.09 |
| | | 3 | 0 | 20.99 | 20.92 | 20.98 | 20.92 | 20.74 | 20.75 | 19.49 | 19.47 | 19.46 | 18.10 | 18.03 | 18.02 |
| | | 3 | 1 | 21.00 | 20.91 | 20.97 | 20.93 | 20.75 | 20.79 | 19.51 | 19.46 | 19.47 | 18.13 | 18.02 | 18.04 |
| | | 3 | 2 | 20.97 | 20.93 | 20.98 | 20.95 | 20.75 | 20.78 | 19.54 | 19.48 | 19.47 | 18.14 | 18.02 | 18.01 |
| | | 6 | 0 | 20.85 | 20.80 | 20.91 | **21.07** | 20.57 | 20.86 | 19.41 | 19.18 | 19.42 | 18.08 | 17.88 | 18.10 |

## OUTPUT POWER FOR LTE BAND 66 (3.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 131987 | 132322 | 132657 | 131987 | 132322 | 132657 | 131987 | 132322 | 132657 | 131987 | 132322 | 132657 |
| | | | | 1711.5 | 1745.0 | 1778.5 | 1711.5 | 1745.0 | 1778.5 | 1711.5 | 1745.0 | 1778.5 | 1711.5 | 1745.0 | 1778.5 |
| 3.0 | QPSK | 1 | 0 | 25.49 | 25.37 | 25.58 | 25.62 | 25.35 | 25.40 | 25.11 | 24.95 | 24.99 | 24.10 | 23.95 | 23.98 |
| | | 1 | 7 | 25.58 | 25.51 | **25.70** | **25.70** | 25.44 | 25.49 | **25.20** | 25.06 | 25.08 | **24.20** | 24.05 | 24.10 |
| | | 1 | 14 | 25.48 | 25.44 | 25.52 | 25.60 | 25.39 | 25.43 | 25.10 | 24.96 | 24.97 | 24.12 | 23.94 | 24.00 |
| | | 8 | 0 | 24.88 | 24.80 | 24.96 | 24.95 | 24.74 | 24.78 | 24.20 | 24.05 | 24.06 | 23.16 | 22.96 | 23.03 |
| | | 8 | 4 | 24.88 | 24.84 | 24.99 | 24.94 | 24.75 | 24.80 | 24.22 | 24.08 | 24.08 | 23.21 | 23.01 | 23.06 |
| | | 8 | 7 | 24.88 | 24.83 | 25.00 | 24.91 | 24.76 | 24.80 | 24.23 | 24.05 | 24.08 | 23.17 | 23.00 | 23.07 |
| | | 15 | 0 | 24.86 | 24.82 | 24.94 | 24.94 | 24.71 | 24.77 | 24.18 | 24.03 | 24.03 | 23.15 | 22.97 | 23.03 |
| | 16QAM | 1 | 0 | 25.11 | 25.18 | 25.29 | 25.25 | 25.04 | 25.22 | 24.46 | 24.25 | 24.42 | 23.49 | 23.18 | 23.46 |
| | | 1 | 7 | 25.19 | 25.26 | **25.36** | **25.35** | 25.15 | 25.23 | **24.54** | 24.41 | 24.51 | **23.51** | 23.27 | 23.49 |
| | | 1 | 14 | 25.06 | 25.13 | 25.29 | 25.25 | 25.03 | 25.15 | 24.45 | 24.28 | 24.35 | 23.38 | 23.17 | 23.41 |
| | | 8 | 0 | 23.90 | 23.87 | 24.06 | 24.01 | 23.76 | 23.81 | 23.29 | 23.10 | 23.10 | 22.24 | 22.04 | 22.09 |
| | | 8 | 4 | 23.95 | 23.89 | 24.08 | 24.04 | 23.78 | 23.82 | 23.31 | 23.13 | 23.11 | 22.25 | 22.09 | 22.12 |
| | | 8 | 7 | 23.92 | 23.89 | 24.08 | 24.04 | 23.79 | 23.84 | 23.33 | 23.14 | 23.11 | 22.26 | 22.09 | 22.11 |
| | | 15 | 0 | 23.88 | 23.84 | 23.98 | 23.98 | 23.73 | 23.78 | 23.24 | 23.10 | 23.10 | 22.21 | 21.97 | 22.05 |
| | 64QAM | 1 | 0 | 24.08 | 24.07 | **24.27** | 24.06 | 23.83 | 24.02 | 22.68 | 22.54 | 22.63 | 21.15 | 21.03 | 21.09 |
| | | 1 | 7 | 24.07 | 24.07 | 24.22 | **24.23** | 24.05 | 24.09 | **22.77** | 22.51 | 22.57 | **21.27** | 21.02 | 21.15 |
| | | 1 | 14 | 24.05 | 24.09 | 24.16 | 24.12 | 23.93 | 24.06 | 22.65 | 22.53 | 22.55 | 21.18 | 21.04 | 21.13 |
| | | 8 | 0 | 22.93 | 22.86 | 23.03 | 22.96 | 22.73 | 22.83 | 21.46 | 22.52 | 22.61 | 20.11 | 21.03 | 21.18 |
| | | 8 | 4 | 22.97 | 22.90 | 23.06 | 23.00 | 22.76 | 22.87 | 21.48 | 22.53 | 22.57 | 20.15 | 21.04 | 21.16 |
| | | 8 | 7 | 22.96 | 22.91 | 23.06 | 23.02 | 22.76 | 22.86 | 21.47 | 22.54 | 22.53 | 20.14 | 21.06 | 21.18 |
| | | 15 | 0 | 22.88 | 22.87 | 22.99 | 22.93 | 22.69 | 22.79 | 21.50 | 22.53 | 22.55 | 20.09 | 21.05 | 21.21 |
| | 256QAM | 1 | 0 | 20.85 | 20.82 | 21.09 | 20.98 | 20.73 | 20.79 | 19.44 | 19.36 | 19.45 | 18.24 | 18.00 | 18.10 |
| | | 1 | 7 | 21.03 | 21.03 | **21.17** | **21.08** | 20.79 | 20.90 | **19.61** | 19.49 | 19.53 | **18.25** | 18.12 | 18.19 |
| | | 1 | 14 | 20.91 | 20.95 | 21.03 | 21.00 | 20.70 | 20.85 | 19.58 | 19.45 | 19.40 | 18.18 | 17.99 | 18.07 |
| | | 8 | 0 | 20.84 | 20.81 | 20.99 | 20.87 | 20.69 | 20.76 | 19.47 | 19.34 | 19.34 | 18.11 | 17.94 | 18.02 |
| | | 8 | 4 | 20.88 | 20.87 | 20.99 | 20.95 | 20.73 | 20.80 | 19.50 | 19.39 | 19.37 | 18.13 | 18.00 | 18.02 |
| | | 8 | 7 | 20.88 | 20.85 | 20.99 | 20.94 | 20.72 | 20.79 | 19.49 | 19.39 | 19.37 | 18.13 | 17.98 | 18.01 |
| | | 15 | 0 | 20.86 | 20.83 | 20.96 | 20.89 | 20.64 | 20.72 | 19.45 | 19.34 | 19.34 | 18.10 | 17.91 | 17.98 |

## OUTPUT POWER FOR LTE BAND 66 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 131997 | 132322 | 132647 | 131997 | 132322 | 132647 | 131997 | 132322 | 132647 | 131997 | 132322 | 132647 |
| | | | | 1712.5 | 1745.0 | 1777.5 | 1712.5 | 1745.0 | 1777.5 | 1712.5 | 1745.0 | 1777.5 | 1712.5 | 1745.0 | 1777.5 |
| 5.0 | QPSK | 1 | 0 | 25.51 | 25.47 | 25.64 | 25.59 | 25.35 | 25.42 | 25.19 | 25.00 | 25.08 | 24.14 | 23.91 | 24.09 |
| | | 1 | 12 | 25.60 | 25.55 | **25.70** | **25.70** | 25.42 | 25.45 | **25.20** | 25.12 | 25.14 | **24.20** | 23.96 | 24.10 |
| | | 1 | 24 | 25.51 | 25.49 | 25.59 | 25.59 | 25.40 | 25.44 | 25.19 | 25.05 | 25.07 | 24.15 | 23.95 | 24.04 |
| | | 12 | 0 | 24.84 | 24.78 | 24.96 | 24.88 | 24.68 | 24.72 | 24.20 | 24.04 | 24.11 | 23.16 | 22.98 | 23.06 |
| | | 12 | 6 | 24.88 | 24.79 | 24.98 | 24.90 | 24.68 | 24.74 | 24.25 | 24.08 | 24.10 | 23.18 | 22.96 | 23.08 |
| | | 12 | 11 | 24.85 | 24.78 | 24.95 | 24.86 | 24.68 | 24.71 | 24.20 | 24.06 | 24.08 | 23.18 | 22.94 | 23.03 |
| | | 25 | 0 | 24.83 | 24.79 | 24.94 | 24.86 | 24.65 | 24.71 | 24.22 | 24.07 | 24.08 | 23.17 | 22.97 | 23.06 |
| | 16QAM | 1 | 0 | 25.17 | 25.10 | 25.29 | 25.24 | 25.04 | 25.14 | 24.57 | 24.44 | 24.42 | 23.55 | 23.31 | 23.45 |
| | | 1 | 12 | 25.24 | 25.30 | **25.38** | **25.29** | 25.02 | 25.21 | **24.68** | 24.53 | 24.49 | **23.66** | 23.34 | 23.49 |
| | | 1 | 24 | 25.20 | 25.15 | 25.24 | 25.27 | 24.99 | 25.11 | 24.60 | 24.48 | 24.37 | 23.55 | 23.37 | 23.43 |
| | | 12 | 0 | 23.90 | 23.81 | 24.06 | 23.86 | 23.59 | 23.76 | 23.19 | 23.16 | 23.11 | 22.21 | 21.97 | 22.02 |
| | | 12 | 6 | 23.91 | 23.82 | 24.07 | 23.86 | 23.62 | 23.77 | 23.22 | 23.16 | 23.12 | 22.21 | 21.98 | 22.02 |
| | | 12 | 11 | 23.87 | 23.81 | 24.03 | 23.85 | 23.59 | 23.74 | 23.20 | 23.15 | 23.10 | 22.20 | 21.95 | 21.99 |
| | | 25 | 0 | 23.87 | 23.81 | 23.92 | 23.86 | 23.68 | 23.72 | 23.23 | 23.10 | 23.11 | 22.14 | 21.95 | 22.05 |
| | 64QAM | 1 | 0 | 24.15 | 23.99 | **24.31** | 24.14 | 23.82 | 24.00 | **22.85** | 22.61 | 22.58 | 21.36 | 21.09 | 21.21 |
| | | 1 | 12 | 24.17 | 24.03 | 24.24 | 24.18 | 23.90 | 23.96 | 22.80 | 22.61 | 22.61 | 21.39 | 21.08 | 21.22 |
| | | 1 | 24 | 24.13 | 24.03 | 24.20 | **24.21** | 23.85 | 23.90 | 22.82 | 22.60 | 22.66 | **21.40** | 21.08 | 21.21 |
| | | 12 | 0 | 23.00 | 22.79 | 23.03 | 22.93 | 22.70 | 22.74 | 21.54 | 22.60 | 22.61 | 20.06 | 21.10 | 21.22 |
| | | 12 | 6 | 23.01 | 22.82 | 23.08 | 22.95 | 22.71 | 22.75 | 21.55 | 22.61 | 22.59 | 20.10 | 21.10 | 21.22 |
| | | 12 | 11 | 22.98 | 22.82 | 23.03 | 22.93 | 22.66 | 22.71 | 21.52 | 22.58 | 22.62 | 20.07 | 21.10 | 21.25 |
| | | 25 | 0 | 22.86 | 22.80 | 22.96 | 22.84 | 22.65 | 22.72 | 21.49 | 22.59 | 22.62 | 20.08 | 21.07 | 21.17 |
| | 256QAM | 1 | 0 | 20.92 | 20.87 | **21.08** | 20.92 | 20.81 | 20.77 | 19.48 | 19.38 | 19.51 | 18.21 | 18.00 | 18.05 |
| | | 1 | 12 | 21.06 | 20.92 | 21.04 | **20.94** | 20.83 | 20.75 | **19.62** | 19.54 | 19.59 | 18.25 | 18.08 | 18.07 |
| | | 1 | 24 | 20.95 | 20.94 | 21.02 | 20.90 | 20.77 | 20.71 | 19.60 | 19.45 | 19.50 | **18.31** | 18.11 | 18.00 |
| | | 12 | 0 | 20.82 | 20.79 | 20.95 | 20.81 | 20.60 | 20.71 | 19.47 | 19.35 | 19.36 | 18.12 | 17.87 | 18.01 |
| | | 12 | 6 | 20.89 | 20.81 | 20.95 | 20.84 | 20.62 | 20.71 | 19.51 | 19.37 | 19.36 | 18.13 | 17.95 | 18.00 |
| | | 12 | 11 | 20.82 | 20.80 | 20.90 | 20.82 | 20.58 | 20.68 | 19.49 | 19.36 | 19.36 | 18.09 | 17.90 | 17.97 |
| | | 25 | 0 | 20.87 | 20.81 | 20.92 | 20.83 | 20.62 | 20.69 | 19.48 | 19.32 | 19.40 | 18.07 | 17.86 | 17.97 |

## OUTPUT POWER FOR LTE BAND 66 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 132022 | 132322 | 132622 | 132022 | 132322 | 132622 | 132022 | 132322 | 132622 | 132022 | 132322 | 132622 |
| | | | | 1715.0 | 1745.0 | 1775.0 | 1715.0 | 1745.0 | 1775.0 | 1715.0 | 1745.0 | 1775.0 | 1715.0 | 1745.0 | 1775.0 |
| 10.0 | QPSK | 1 | 0 | 25.64 | 25.52 | 25.66 | 25.62 | 25.40 | 25.41 | 25.17 | 24.97 | 25.06 | 24.10 | 23.90 | 24.07 |
| | | 1 | 24 | 25.63 | 25.60 | **25.70** | **25.70** | 25.46 | 25.49 | **25.20** | 25.06 | 25.10 | **24.20** | 23.99 | 24.11 |
| | | 1 | 49 | 25.60 | 25.56 | 25.65 | 25.62 | 25.43 | 25.40 | 25.16 | 25.03 | 25.03 | 24.12 | 23.96 | 23.99 |
| | | 25 | 0 | 24.93 | 24.83 | 24.96 | 24.99 | 24.79 | 24.78 | 24.26 | 24.00 | 24.07 | 23.19 | 22.99 | 23.02 |
| | | 25 | 12 | 25.03 | 24.95 | 24.98 | 24.98 | 24.79 | 24.73 | 24.27 | 24.11 | 24.06 | 23.19 | 23.01 | 23.03 |
| | | 25 | 24 | 24.98 | 24.93 | 25.02 | 25.01 | 24.77 | 24.78 | 24.23 | 24.09 | 24.11 | 23.17 | 23.00 | 23.07 |
| | | 50 | 0 | 24.99 | 24.92 | 24.95 | 24.97 | 24.78 | 24.73 | 24.25 | 24.08 | 24.04 | 23.19 | 23.02 | 23.00 |
| | 16QAM | 1 | 0 | 25.26 | 25.28 | **25.43** | 25.26 | 25.15 | 25.20 | 24.52 | 24.32 | 24.43 | 23.39 | 23.31 | 23.39 |
| | | 1 | 24 | 25.22 | 25.27 | 25.36 | 25.30 | 25.14 | 25.25 | **24.55** | 24.37 | 24.46 | **23.46** | 23.34 | 23.43 |
| | | 1 | 49 | 25.16 | 25.29 | 25.38 | **25.32** | 25.12 | 25.17 | 24.49 | 24.45 | 24.44 | 23.44 | 23.30 | 23.40 |
| | | 25 | 0 | 23.93 | 23.86 | 23.97 | 24.02 | 23.81 | 23.71 | 23.28 | 23.06 | 23.09 | 22.19 | 22.05 | 22.07 |
| | | 25 | 12 | 24.01 | 23.95 | 24.01 | 24.02 | 23.82 | 23.70 | 23.29 | 23.15 | 23.07 | 22.20 | 22.06 | 22.02 |
| | | 25 | 24 | 24.00 | 23.94 | 24.05 | 23.97 | 23.78 | 23.75 | 23.26 | 23.14 | 23.15 | 22.19 | 22.07 | 22.08 |
| | | 50 | 0 | 23.98 | 23.92 | 23.96 | 23.98 | 23.77 | 23.72 | 23.25 | 23.11 | 23.05 | 22.20 | 22.03 | 22.02 |
| | 64QAM | 1 | 0 | 24.22 | 24.12 | 24.25 | 24.12 | 24.09 | 23.94 | 22.77 | 22.46 | 22.59 | 21.18 | 20.99 | 21.18 |
| | | 1 | 24 | 24.24 | 24.14 | 24.27 | **24.17** | 24.09 | 23.99 | **22.81** | 22.50 | 22.57 | **21.28** | 21.03 | 21.22 |
| | | 1 | 49 | 24.22 | 24.16 | **24.31** | 24.13 | 24.00 | 23.92 | 22.72 | 22.52 | 22.58 | 21.26 | 21.02 | 21.21 |
| | | 25 | 0 | 22.96 | 22.83 | 22.97 | 22.97 | 22.79 | 22.72 | 21.53 | 22.44 | 22.60 | 20.15 | 21.05 | 21.17 |
| | | 25 | 12 | 23.03 | 22.93 | 23.02 | 22.98 | 22.77 | 22.75 | 21.56 | 22.50 | 22.62 | 20.17 | 20.99 | 21.19 |
| | | 25 | 24 | 23.00 | 22.92 | 23.05 | 22.98 | 22.77 | 22.77 | 21.54 | 22.51 | 22.58 | 20.14 | 21.01 | 21.19 |
| | | 50 | 0 | 23.02 | 22.91 | 22.95 | 22.98 | 22.76 | 22.73 | 21.53 | 22.45 | 22.55 | 20.12 | 21.03 | 21.20 |
| | 256QAM | 1 | 0 | 20.93 | 20.93 | 21.07 | 21.00 | 20.89 | 20.78 | 19.47 | 19.36 | 19.42 | 18.09 | 17.99 | 18.06 |
| | | 1 | 24 | 21.00 | 21.11 | **21.21** | **21.07** | 20.88 | 20.89 | **19.60** | 19.47 | 19.53 | **18.20** | 18.13 | 18.17 |
| | | 1 | 49 | 21.00 | 21.03 | 21.14 | 20.97 | 20.82 | 20.79 | 19.54 | 19.46 | 19.41 | 18.18 | 18.12 | 18.06 |
| | | 25 | 0 | 20.92 | 20.79 | 20.94 | 20.95 | 20.74 | 20.69 | 19.53 | 19.28 | 19.32 | 18.15 | 17.93 | 18.03 |
| | | 25 | 12 | 21.00 | 20.93 | 20.95 | 20.93 | 20.79 | 20.67 | 19.55 | 19.41 | 19.33 | 18.15 | 17.97 | 17.98 |
| | | 25 | 24 | 20.99 | 20.90 | 21.02 | 20.99 | 20.73 | 20.75 | 19.53 | 19.38 | 19.38 | 18.13 | 17.98 | 18.04 |
| | | 50 | 0 | 20.97 | 20.88 | 20.94 | 20.93 | 20.71 | 20.68 | 19.52 | 19.36 | 19.32 | 18.13 | 17.95 | 17.94 |

## OUTPUT POWER FOR LTE BAND 66 (15.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 132047 | 132322 | 132597 | 132047 | 132322 | 132597 | 132047 | 132322 | 132597 | 132047 | 132322 | 132597 |
| | | | | 1717.5 | 1745.0 | 1772.5 | 1717.5 | 1745.0 | 1772.5 | 1717.5 | 1745.0 | 1772.5 | 1717.5 | 1745.0 | 1772.5 |
| 15.0 | QPSK | 1 | 0 | 25.56 | 25.39 | 25.64 | 25.59 | 25.40 | 25.49 | 25.04 | 24.86 | 25.00 | 24.08 | 23.96 | 24.14 |
| | | 1 | 37 | 25.65 | 25.55 | **25.70** | **25.70** | 25.47 | 25.49 | **25.20** | 24.98 | 25.07 | **24.20** | 24.07 | 24.14 |
| | | 1 | 74 | 25.50 | 25.49 | 25.61 | 25.54 | 25.43 | 25.44 | 25.03 | 24.91 | 24.92 | 24.11 | 24.04 | 24.06 |
| | | 36 | 0 | 24.84 | 24.74 | 24.88 | 24.92 | 24.72 | 24.73 | 24.02 | 23.83 | 23.94 | 23.18 | 22.95 | 23.03 |
| | | 36 | 16 | 24.92 | 24.85 | 24.90 | 24.93 | 24.75 | 24.71 | 24.13 | 23.96 | 24.02 | 23.22 | 23.05 | 23.05 |
| | | 36 | 35 | 24.90 | 24.84 | 24.98 | 24.91 | 24.72 | 24.75 | 24.08 | 23.95 | 23.99 | 23.18 | 23.04 | 23.10 |
| | | 75 | 0 | 24.88 | 24.80 | 24.84 | 24.90 | 24.69 | 24.69 | 24.07 | 23.93 | 23.99 | 23.17 | 23.03 | 23.00 |
| | 16QAM | 1 | 0 | 25.15 | 25.09 | 25.23 | 25.18 | 24.99 | 25.09 | 24.43 | 24.08 | 24.34 | 23.41 | 23.26 | 23.48 |
| | | 1 | 37 | 25.24 | 25.22 | **25.34** | **25.27** | 25.01 | 25.06 | **24.49** | 24.32 | 24.35 | **23.53** | 23.38 | 23.51 |
| | | 1 | 74 | 25.12 | 25.12 | 25.25 | 25.18 | 25.06 | 24.98 | 24.33 | 24.15 | 24.24 | 23.35 | 23.36 | 23.39 |
| | | 36 | 0 | 23.85 | 23.76 | 23.90 | 23.95 | 23.72 | 23.73 | 23.07 | 22.88 | 22.95 | 22.19 | 21.96 | 22.07 |
| | | 36 | 16 | 23.94 | 23.87 | 23.91 | 23.97 | 23.72 | 23.73 | 23.15 | 22.99 | 23.04 | 22.22 | 22.06 | 22.07 |
| | | 36 | 35 | 23.91 | 23.86 | 23.98 | 23.95 | 23.71 | 23.78 | 23.12 | 22.99 | 23.00 | 22.20 | 22.06 | 22.12 |
| | | 75 | 0 | 23.90 | 23.83 | 23.90 | 23.92 | 23.70 | 23.69 | 23.08 | 22.94 | 23.04 | 22.18 | 22.02 | 22.03 |
| | 64QAM | 1 | 0 | 24.16 | 24.02 | 24.26 | 24.15 | 23.95 | 24.03 | 22.62 | 22.32 | 22.51 | 21.26 | 21.14 | 21.28 |
| | | 1 | 37 | 24.19 | 24.16 | **24.33** | **24.25** | 24.08 | 24.05 | **22.75** | 22.32 | 22.52 | **21.43** | 21.14 | 21.31 |
| | | 1 | 74 | 24.16 | 24.14 | 24.25 | 24.17 | 24.01 | 23.93 | 22.55 | 22.36 | 22.49 | 21.29 | 21.13 | 21.27 |
| | | 36 | 0 | 22.85 | 22.75 | 22.88 | 22.89 | 22.69 | 22.67 | 21.29 | 22.34 | 22.51 | 20.16 | 21.09 | 21.28 |
| | | 36 | 16 | 22.93 | 22.86 | 22.85 | 22.91 | 22.70 | 22.69 | 21.40 | 22.33 | 22.54 | 20.15 | 21.13 | 21.27 |
| | | 36 | 35 | 22.91 | 22.88 | 22.91 | 22.89 | 22.69 | 22.73 | 21.38 | 22.35 | 22.49 | 20.15 | 21.14 | 21.27 |
| | | 75 | 0 | 22.91 | 22.82 | 22.84 | 22.89 | 22.68 | 22.63 | 21.39 | 22.36 | 22.48 | 20.15 | 21.17 | 21.28 |
| | 256QAM | 1 | 0 | 20.89 | 20.88 | 20.91 | 20.88 | 20.76 | 20.74 | 19.40 | 19.14 | 19.41 | 18.21 | 17.99 | 18.07 |
| | | 1 | 37 | 21.01 | 21.00 | **21.08** | **21.13** | 20.83 | 20.85 | **19.55** | 19.32 | 19.53 | **18.41** | 18.16 | 18.27 |
| | | 1 | 74 | 20.89 | 20.97 | 20.98 | 20.89 | 20.84 | 20.84 | 19.40 | 19.29 | 19.38 | 18.24 | 18.10 | 18.17 |
| | | 36 | 0 | 20.82 | 20.72 | 20.81 | 20.86 | 20.65 | 20.64 | 19.29 | 19.11 | 19.20 | 18.17 | 17.90 | 18.02 |
| | | 36 | 16 | 20.92 | 20.84 | 20.84 | 20.89 | 20.69 | 20.64 | 19.40 | 19.26 | 19.26 | 18.18 | 18.01 | 18.02 |
| | | 36 | 35 | 20.89 | 20.85 | 20.89 | 20.87 | 20.70 | 20.69 | 19.38 | 19.27 | 19.24 | 18.16 | 17.99 | 18.08 |
| | | 75 | 0 | 20.87 | 20.81 | 20.81 | 20.87 | 20.69 | 20.64 | 19.39 | 19.22 | 19.25 | 18.15 | 17.97 | 17.99 |

## OUTPUT POWER FOR LTE BAND 66 (20.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 132072 | 132322 | 132572 | 132072 | 132322 | 132572 | 132072 | 132322 | 132572 | 132072 | 132322 | 132572 |
| | | | | 1720.0 | 1745.0 | 1770.0 | 1720.0 | 1745.0 | 1770.0 | 1720.0 | 1745.0 | 1770.0 | 1720.0 | 1745.0 | 1770.0 |
| 20.0 | QPSK | 1 | 0 | 25.61 | 25.54 | 25.69 | 25.58 | 25.50 | 25.62 | 25.08 | 24.89 | 24.97 | 24.12 | 23.95 | 24.08 |
| | | 1 | 49 | 25.63 | 25.59 | 25.68 | 25.66 | 25.58 | **25.70** | **25.20** | 24.98 | 24.99 | **24.20** | 24.00 | 24.13 |
| | | 1 | 99 | 25.55 | 25.57 | **25.70** | 25.56 | 25.62 | 25.59 | 25.03 | 24.97 | 24.92 | 24.09 | 24.03 | 24.01 |
| | | 50 | 0 | 24.88 | 24.83 | 24.90 | 24.93 | 24.91 | 24.89 | 24.05 | 23.87 | 23.95 | 23.13 | 22.91 | 23.02 |
| | | 50 | 24 | 24.97 | 24.94 | 24.92 | 24.96 | 24.89 | 24.98 | 24.11 | 24.00 | 23.93 | 23.23 | 23.04 | 23.10 |
| | | 50 | 49 | 24.93 | 24.91 | 24.98 | 24.91 | 24.89 | 24.95 | 24.06 | 23.99 | 23.97 | 23.17 | 23.00 | 23.06 |
| | | 100 | 0 | 24.94 | 24.89 | 24.89 | 24.93 | 24.88 | 24.88 | 24.07 | 23.96 | 23.91 | 23.16 | 23.00 | 22.99 |
| | 16QAM | 1 | 0 | 25.19 | 25.03 | 25.19 | 25.16 | 25.11 | 25.21 | 24.33 | 24.14 | 24.38 | 23.44 | 23.33 | 23.48 |
| | | 1 | 49 | **25.49** | 25.25 | 25.42 | 25.28 | 25.30 | **25.33** | **24.63** | 24.42 | 24.50 | **23.58** | 23.41 | 23.56 |
| | | 1 | 99 | 25.13 | 25.13 | 25.27 | 25.08 | 25.15 | 25.18 | 24.37 | 24.21 | 24.32 | 23.40 | 23.49 | 23.34 |
| | | 50 | 0 | 23.87 | 23.82 | 23.91 | 23.96 | 23.88 | 23.87 | 23.06 | 22.86 | 22.97 | 22.12 | 21.92 | 22.02 |
| | | 50 | 24 | 23.97 | 23.92 | 23.93 | 23.94 | 23.86 | 23.97 | 23.11 | 22.99 | 22.95 | 22.21 | 22.02 | 22.09 |
| | | 50 | 49 | 23.93 | 23.92 | 23.98 | 23.91 | 23.88 | 23.94 | 23.06 | 23.00 | 22.97 | 22.16 | 22.01 | 22.04 |
| | | 100 | 0 | 23.94 | 23.88 | 23.90 | 23.92 | 23.86 | 23.86 | 23.08 | 22.95 | 22.92 | 22.16 | 21.98 | 21.96 |
| | 64QAM | 1 | 0 | 24.17 | 24.01 | 24.19 | 24.38 | 24.19 | 24.11 | 22.58 | 22.29 | 22.48 | 22.27 | 21.91 | 21.76 |
| | | 1 | 49 | 24.23 | **24.32** | 24.29 | **24.41** | 24.29 | 24.30 | **22.77** | 22.28 | 22.47 | **22.41** | 21.84 | 21.74 |
| | | 1 | 99 | 24.11 | 24.13 | 24.19 | 24.26 | 24.18 | 24.11 | 22.49 | 22.27 | 22.45 | 22.12 | 21.83 | 21.74 |
| | | 50 | 0 | 22.88 | 22.82 | 22.92 | 23.02 | 22.87 | 22.87 | 21.33 | 22.28 | 22.43 | 20.83 | 21.86 | 21.76 |
| | | 50 | 24 | 22.97 | 22.92 | 22.95 | 23.02 | 22.87 | 22.95 | 21.40 | 22.29 | 22.46 | 20.92 | 21.81 | 21.74 |
| | | 50 | 49 | 22.93 | 22.91 | 23.00 | 22.99 | 22.86 | 22.92 | 21.33 | 22.28 | 22.41 | 20.85 | 21.77 | 21.74 |
| | | 100 | 0 | 22.97 | 22.91 | 22.92 | 22.99 | 22.88 | 22.83 | 21.36 | 22.28 | 22.46 | 20.88 | 21.80 | 21.83 |
| | 256QAM | 1 | 0 | 21.03 | 20.87 | 21.05 | 21.07 | 20.86 | 20.93 | 19.45 | 19.25 | 19.20 | 18.97 | 18.67 | 18.63 |
| | | 1 | 49 | **21.17** | 21.07 | 21.09 | **21.16** | 20.92 | 21.12 | **19.60** | 19.44 | 19.44 | **19.01** | 18.71 | 18.65 |
| | | 1 | 99 | 21.07 | 21.05 | 21.14 | 21.06 | 20.91 | 21.04 | 19.49 | 19.47 | 19.21 | 18.91 | 18.70 | 18.65 |
| | | 50 | 0 | 20.87 | 20.78 | 20.89 | 20.95 | 20.88 | 20.84 | 19.31 | 19.15 | 19.18 | 18.80 | 18.45 | 18.54 |
| | | 50 | 24 | 20.95 | 20.90 | 20.91 | 20.97 | 20.87 | 20.92 | 19.39 | 19.27 | 19.19 | 18.91 | 18.59 | 18.52 |
| | | 50 | 49 | 20.91 | 20.89 | 20.96 | 20.93 | 20.84 | 20.89 | 19.34 | 19.25 | 19.23 | 18.84 | 18.62 | 18.44 |
| | | 100 | 0 | 20.92 | 20.88 | 20.91 | 20.94 | 20.85 | 20.82 | 19.37 | 19.24 | 19.15 | 18.86 | 18.60 | 18.50 |

## 5G NR n66

**Test Engineer ID:** 27979 **Test Date:** 5/2/2022

## OUTPUT POWER FOR 5G NR n66 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 342500 | 349000 | 355500 | 342500 | 349000 | 355500 | 342500 | 349000 | 355500 | 342500 | 349000 | 355500 |
| | | | | 1712.5 | 1745.0 | 1777.5 | 1712.5 | 1745.0 | 1777.5 | 1712.5 | 1745.0 | 1777.5 | 1712.5 | 1745.0 | 1777.5 |
| 5.0 | BPSK | 1 | 0 | 25.42 | 25.45 | 25.50 | 25.49 | 25.41 | 25.49 | 24.99 | 24.88 | 24.93 | 23.66 | 24.13 | 24.14 |
| | | 1 | 1 | 25.62 | 25.64 | **25.70** | 25.47 | 25.44 | 25.48 | **25.20** | 25.05 | 25.14 | 23.76 | 24.14 | 24.18 |
| | | 1 | 23 | 25.59 | 25.66 | 25.69 | 25.44 | 25.49 | **25.70** | 25.10 | 25.14 | 25.15 | 23.74 | **24.20** | 24.14 |
| | | 1 | 24 | 25.37 | 25.44 | 25.39 | 25.42 | **25.70** | 25.45 | 24.90 | 24.94 | 24.91 | 23.96 | 24.13 | 24.08 |
| | | 12 | 6 | 25.63 | 25.68 | 25.69 | **25.70** | 25.51 | 25.54 | 25.10 | 25.18 | 25.18 | 23.75 | 24.16 | **24.20** |
| | | 25 | 0 | 25.34 | 25.40 | 25.37 | 25.43 | 25.50 | 25.48 | 24.82 | 24.89 | 24.90 | 23.72 | 24.11 | 24.11 |
| | QPSK | 1 | 0 | 24.95 | 24.98 | 24.91 | 25.45 | 25.39 | 25.46 | 24.42 | 24.35 | 24.48 | 23.87 | 23.93 | 23.93 |
| | | 1 | 1 | 25.65 | 25.66 | 25.66 | 25.49 | 25.41 | 25.48 | 25.17 | 25.08 | 25.17 | 24.19 | 24.10 | 24.13 |
| | | 1 | 23 | **25.70** | **25.70** | 25.68 | 25.46 | **25.57** | 25.56 | 25.17 | **25.20** | **25.20** | **24.20** | 24.15 | 24.10 |
| | | 1 | 24 | 24.90 | 24.99 | 24.96 | 25.46 | 25.54 | 25.46 | 24.39 | 24.47 | 24.52 | 23.96 | 23.93 | 23.97 |
| | | 12 | 6 | 25.61 | **25.70** | 25.65 | 25.44 | 25.38 | 25.48 | 25.07 | 25.17 | 25.19 | 24.05 | 24.10 | 24.15 |
| | | 25 | 0 | 24.62 | 24.98 | 24.94 | 25.46 | 25.40 | 25.47 | 24.41 | 24.47 | 24.49 | 23.86 | 23.93 | 23.97 |
| | 16QAM | 1 | 0 | 23.62 | 24.18 | 24.18 | 25.51 | 25.42 | 25.51 | 23.31 | 23.61 | 23.70 | 23.17 | 23.09 | 23.13 |
| | | 1 | 1 | 24.65 | 25.20 | **25.29** | 25.60 | 25.59 | 25.51 | 24.33 | 24.61 | **24.75** | 23.90 | 24.07 | 23.80 |
| | | 1 | 23 | 24.59 | 25.20 | 25.21 | **25.69** | 25.50 | 25.67 | 24.31 | 24.73 | **24.75** | 24.15 | 24.06 | **24.16** |
| | | 1 | 24 | 23.60 | 24.18 | 24.19 | 25.49 | 25.47 | 25.46 | 23.28 | 23.66 | 23.73 | 23.18 | 23.21 | 23.09 |
| | | 12 | 6 | 24.89 | 24.91 | 25.00 | 25.49 | 25.42 | 25.46 | 24.37 | 24.39 | 24.43 | 23.75 | 23.91 | 23.78 |
| | | 25 | 0 | 23.89 | 23.98 | 23.97 | 25.23 | 25.20 | 25.22 | 23.36 | 23.45 | 23.55 | 22.51 | 23.28 | 22.90 |
| | 64QAM | 1 | 0 | 23.57 | 23.60 | 23.63 | 25.00 | 24.77 | 24.91 | 23.07 | 23.00 | 23.16 | 22.17 | **22.78** | 22.45 |
| | | 1 | 1 | 23.59 | 23.61 | **23.69** | **25.04** | 24.82 | 24.98 | 23.08 | 23.08 | **23.18** | 22.23 | **22.78** | 22.49 |
| | | 1 | 23 | 23.56 | 23.62 | 23.66 | 24.95 | 24.91 | 25.01 | 23.16 | 23.13 | 23.12 | 22.23 | 22.74 | 22.54 |
| | | 1 | 24 | 23.54 | 23.60 | 23.63 | 25.01 | 24.90 | 24.93 | 23.15 | 23.08 | 23.08 | 22.27 | 22.73 | 22.52 |
| | | 12 | 6 | 23.32 | 23.38 | 23.52 | 24.79 | 24.72 | 24.73 | 23.02 | 22.96 | 23.01 | 22.21 | 22.68 | 22.51 |
| | | 25 | 0 | 23.40 | 23.44 | 23.49 | 24.81 | 24.70 | 24.74 | 22.97 | 22.95 | 22.95 | 22.10 | 22.69 | 22.51 |
| | 256QAM | 1 | 0 | 21.40 | 21.37 | 21.43 | 22.62 | 22.71 | 22.64 | 20.96 | 20.86 | 20.95 | 20.24 | 20.66 | 20.44 |
| | | 1 | 1 | 21.43 | 21.39 | 21.46 | 22.70 | 22.66 | 22.64 | 20.97 | 20.93 | 20.98 | 20.06 | 20.66 | 20.49 |
| | | 1 | 23 | 21.39 | 21.40 | 21.44 | 22.61 | 22.74 | 22.72 | 20.98 | 20.92 | 21.02 | 20.03 | 20.70 | 20.48 |
| | | 1 | 24 | 21.40 | 21.34 | 21.42 | 22.60 | 22.75 | 22.76 | 20.99 | 20.83 | 20.95 | 20.00 | 20.68 | 20.46 |
| | | 12 | 6 | 21.38 | 21.46 | 21.45 | 22.68 | 22.74 | **22.87** | 20.96 | 20.94 | **21.04** | 20.18 | 20.73 | 20.55 |
| | | 25 | 0 | 21.35 | 21.43 | **21.48** | 22.73 | 22.70 | 22.84 | 20.98 | 20.94 | 20.98 | 20.12 | **20.74** | 20.56 |

## OUTPUT POWER FOR 5G NR n66 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 343000 | 349000 | 355000 | 343000 | 349000 | 355000 | 343000 | 349000 | 355000 | 343000 | 349000 | 355000 |
| | | | | 1715.0 | 1745.0 | 1775.0 | 1715.0 | 1745.0 | 1775.0 | 1715.0 | 1745.0 | 1775.0 | 1715.0 | 1745.0 | 1775.0 |
| 10.0 | BPSK | 1 | 0 | 25.51 | 25.45 | 25.51 | 25.41 | 25.53 | 25.39 | 24.71 | 24.85 | 24.87 | 24.02 | 23.99 | 24.16 |
| | | 1 | 1 | **25.70** | 25.65 | 25.65 | 25.43 | 25.49 | **25.70** | 25.03 | 25.07 | 25.08 | 24.06 | 24.06 | **24.20** |
| | | 1 | 50 | 25.62 | 25.67 | 25.64 | 25.36 | 25.58 | 25.30 | 24.94 | **25.18** | 24.90 | 24.10 | 24.08 | 24.07 |
| | | 1 | 51 | 25.40 | 25.46 | 25.43 | 25.33 | 25.59 | 25.38 | 24.82 | 24.97 | 24.70 | 24.06 | 24.05 | 24.05 |
| | | 25 | 12 | 25.59 | 25.64 | 25.62 | 25.38 | 25.51 | 25.26 | 25.04 | 25.16 | 24.84 | 24.12 | 24.02 | 24.05 |
| | | 50 | 0 | 25.42 | 25.46 | 25.43 | 25.41 | 25.47 | 25.30 | 24.87 | 24.83 | 24.85 | 24.14 | 24.04 | 24.15 |
| | QPSK | 1 | 0 | 24.96 | 24.88 | 24.97 | **25.70** | 25.52 | 25.31 | 24.46 | 24.38 | 24.48 | 23.99 | 23.92 | 23.92 |
| | | 1 | 1 | 25.69 | 25.68 | **25.70** | 25.48 | 25.57 | 25.32 | 25.19 | 25.10 | **25.20** | 24.17 | **24.20** | 24.16 |
| | | 1 | 50 | 25.65 | 25.68 | 25.68 | 25.40 | **25.70** | 25.28 | 25.16 | **25.20** | 25.18 | **24.20** | 24.14 | 24.13 |
| | | 1 | 51 | 24.73 | 25.00 | 24.96 | 25.35 | 25.56 | 25.28 | 24.16 | 24.40 | 24.49 | 23.97 | 23.95 | 23.96 |
| | | 25 | 12 | 25.66 | **25.70** | 25.66 | 25.42 | 25.50 | 25.30 | **25.20** | 25.09 | 25.17 | 24.17 | 24.11 | 24.18 |
| | | 50 | 0 | 24.66 | 25.00 | 24.96 | 25.45 | 25.46 | 25.29 | 24.32 | 24.34 | 24.43 | 23.92 | 23.90 | 23.97 |
| | 16QAM | 1 | 0 | 24.15 | 24.12 | 24.14 | 25.45 | 25.49 | 25.23 | 23.72 | 23.49 | 23.69 | 23.14 | 23.00 | 23.11 |
| | | 1 | 1 | 25.18 | 25.16 | 25.19 | 25.30 | 25.27 | 24.98 | **24.75** | 24.43 | 24.70 | 23.60 | 24.11 | 24.16 |
| | | 1 | 50 | 24.89 | 25.20 | **25.21** | 25.50 | **25.63** | 25.52 | 24.35 | 24.52 | 24.69 | **24.18** | 24.13 | 23.60 |
| | | 1 | 51 | 23.86 | 24.15 | 24.16 | 25.46 | 25.41 | 25.28 | 23.32 | 23.53 | 23.67 | 23.18 | 23.02 | 23.11 |
| | | 25 | 12 | 24.97 | 24.98 | 24.99 | 25.43 | 25.52 | 25.33 | 24.51 | 24.35 | 24.53 | 23.97 | 23.91 | 23.96 |
| | | 50 | 0 | 23.90 | 23.95 | 23.89 | 25.11 | 25.31 | 25.08 | 23.44 | 23.32 | 23.44 | 22.93 | 22.79 | 22.95 |
| | 64QAM | 1 | 0 | 23.56 | 23.58 | 23.57 | 24.99 | 24.91 | 24.58 | 23.10 | 22.87 | 23.13 | 22.56 | 22.43 | 22.51 |
| | | 1 | 1 | 23.58 | 23.65 | 23.64 | 24.88 | 24.99 | 24.82 | 22.83 | 22.94 | **23.15** | 22.55 | 22.48 | 22.54 |
| | | 1 | 50 | 23.48 | **23.67** | 23.62 | **25.02** | 24.75 | 24.90 | 22.66 | 23.04 | 23.13 | 22.56 | 22.48 | **22.57** |
| | | 1 | 51 | 23.48 | 23.58 | 23.63 | 24.92 | 24.82 | 24.83 | 22.69 | 23.01 | 23.05 | 22.51 | 22.43 | **22.57** |
| | | 25 | 12 | 23.38 | 23.48 | 23.43 | 24.77 | 24.78 | 24.73 | 22.82 | 22.89 | 23.00 | 22.41 | 22.32 | 22.45 |
| | | 50 | 0 | 23.39 | 23.42 | 23.46 | 24.65 | 24.79 | 24.68 | 22.80 | 22.89 | 22.98 | 22.43 | 22.38 | 22.47 |
| | 256QAM | 1 | 0 | 21.42 | 21.41 | 21.45 | 22.67 | 22.71 | 22.47 | 20.75 | 20.73 | 20.91 | 20.40 | 20.38 | 20.42 |
| | | 1 | 1 | 21.47 | 21.35 | 21.48 | 22.70 | 22.69 | 22.60 | 20.91 | 20.71 | 20.91 | 20.41 | 20.40 | 20.42 |
| | | 1 | 50 | 21.46 | 21.41 | 21.46 | 22.62 | 22.72 | 22.67 | 20.91 | 20.82 | 20.90 | 20.36 | 20.42 | **20.44** |
| | | 1 | 51 | 21.39 | 21.34 | 21.45 | 22.54 | **22.82** | 22.58 | 20.91 | 20.80 | 20.88 | 20.29 | 20.37 | 20.41 |
| | | 25 | 12 | 21.48 | 21.43 | **21.50** | 22.66 | 22.79 | 22.62 | 20.92 | 20.87 | **20.97** | 20.42 | 20.40 | 20.41 |
| | | 50 | 0 | 21.44 | 21.37 | 21.46 | 22.68 | **22.82** | 22.54 | 20.88 | 20.89 | 20.96 | 20.35 | 20.38 | **20.44** |

## OUTPUT POWER FOR 5G NR n66 (15.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 343500 | 349000 | 354500 | 343500 | 349000 | 354500 | 343500 | 349000 | 354500 | 343500 | 349000 | 354500 |
| | | | | 1717.5 | 1745.0 | 1772.5 | 1717.5 | 1745.0 | 1772.5 | 1717.5 | 1745.0 | 1772.5 | 1717.5 | 1745.0 | 1772.5 |
| 15.0 | BPSK | 1 | 0 | 25.40 | 25.31 | 25.41 | 25.32 | 25.45 | 25.40 | 24.95 | 24.85 | 24.80 | 24.14 | 24.09 | 24.13 |
| | | 1 | 1 | 25.61 | 25.53 | 25.62 | **25.70** | 25.47 | 25.37 | 25.14 | 25.06 | 25.02 | 24.15 | 24.07 | 24.09 |
| | | 1 | 77 | **25.65** | 25.65 | 25.63 | 25.42 | 25.54 | **25.70** | 25.15 | **25.19** | 25.13 | 24.15 | 24.15 | 24.16 |
| | | 1 | 78 | 25.47 | 25.46 | 25.44 | 25.41 | 25.60 | 25.35 | 25.01 | 24.98 | 24.94 | 24.14 | 24.15 | **24.20** |
| | | 36 | 18 | 25.53 | 25.48 | 25.54 | 25.25 | 25.49 | 25.28 | 25.06 | 24.93 | 24.95 | 24.07 | 24.05 | 24.06 |
| | | 75 | 0 | 25.40 | 25.38 | 25.41 | 25.30 | 25.52 | 25.34 | 24.91 | 24.79 | 24.80 | 24.11 | 24.10 | 24.09 |
| | QPSK | 1 | 0 | 24.97 | 24.89 | 24.84 | 25.40 | 25.55 | 25.43 | 24.54 | 24.37 | 24.39 | 24.00 | 23.85 | 23.93 |
| | | 1 | 1 | 25.66 | 25.59 | 25.67 | 25.37 | 25.51 | 25.41 | **25.20** | 25.03 | 25.09 | 24.18 | 24.03 | 24.12 |
| | | 1 | 77 | **25.70** | **25.70** | **25.70** | 25.40 | **25.70** | 25.45 | 25.18 | **25.20** | **25.20** | **24.20** | **24.20** | 24.18 |
| | | 1 | 78 | 24.88 | 24.98 | 25.02 | 25.41 | 25.57 | 25.43 | 24.35 | 24.53 | 24.47 | 23.98 | 23.99 | 23.92 |
| | | 36 | 18 | 25.45 | 25.54 | 25.60 | 25.25 | 25.48 | 25.31 | 25.14 | 25.04 | 25.00 | 24.11 | 24.06 | 24.06 |
| | | 75 | 0 | 24.60 | 24.87 | 24.94 | 25.38 | 25.55 | 25.42 | 24.20 | 24.36 | 24.35 | 23.94 | 23.93 | 23.87 |
| | 16QAM | 1 | 0 | 24.12 | 24.05 | 24.15 | 25.36 | 25.58 | 25.46 | 23.74 | 23.59 | 23.63 | 23.20 | 23.03 | 23.12 |
| | | 1 | 1 | 25.17 | 25.06 | 25.16 | 25.40 | 25.60 | 25.52 | **24.74** | 24.61 | 24.62 | 24.19 | 24.03 | 24.09 |
| | | 1 | 77 | 24.63 | 25.21 | **25.22** | **25.68** | **25.68** | 25.65 | 24.28 | 24.68 | 24.71 | 24.17 | **24.19** | 24.13 |
| | | 1 | 78 | 23.58 | 24.18 | 24.21 | 25.49 | 25.51 | 25.48 | 23.25 | 23.66 | 23.68 | 23.15 | 23.18 | 23.14 |
| | | 36 | 18 | 24.89 | 24.93 | 24.89 | 25.39 | 25.51 | 25.37 | 24.42 | 24.28 | 24.31 | 23.92 | 23.85 | 23.81 |
| | | 75 | 0 | 23.82 | 23.92 | 23.92 | 25.25 | 25.30 | 25.17 | 23.46 | 23.40 | 23.40 | 22.95 | 22.92 | 22.88 |
| | 64QAM | 1 | 0 | 23.57 | 23.49 | 23.60 | 24.81 | 25.04 | 24.78 | 23.13 | 23.05 | 22.97 | 22.59 | 22.44 | 22.44 |
| | | 1 | 1 | 23.59 | 23.52 | 23.59 | 24.83 | 24.94 | 24.77 | 23.14 | 23.09 | 23.04 | 22.60 | 22.43 | 22.47 |
| | | 1 | 77 | 23.41 | **23.63** | 23.58 | 25.03 | 24.91 | 24.99 | 22.95 | **23.18** | 22.99 | 22.56 | 22.56 | 22.58 |
| | | 1 | 78 | 23.41 | **23.63** | 23.58 | **25.12** | 24.92 | 24.97 | 22.94 | 23.16 | 22.94 | 22.55 | 22.57 | **22.60** |
| | | 36 | 18 | 23.33 | 23.39 | 23.33 | 24.57 | 24.70 | 24.66 | 22.95 | 22.85 | 22.85 | 22.35 | 22.39 | 22.45 |
| | | 75 | 0 | 23.35 | 23.40 | 23.39 | 24.61 | 24.73 | 24.69 | 22.85 | 22.84 | 22.88 | 22.41 | 22.38 | 22.33 |
| | 256QAM | 1 | 0 | 21.36 | 21.26 | 21.37 | 22.63 | 22.72 | 22.66 | 20.94 | 20.84 | 20.80 | 20.42 | 20.34 | 20.35 |
| | | 1 | 1 | 21.33 | 21.27 | 21.32 | 22.53 | 22.79 | 22.55 | 20.87 | 20.78 | 20.85 | 20.40 | 20.33 | 20.41 |
| | | 1 | 77 | 21.35 | 21.35 | 21.36 | 22.66 | 22.81 | 22.79 | **21.02** | 20.94 | 20.86 | 20.42 | 20.40 | 20.45 |
| | | 1 | 78 | 21.31 | 21.35 | 21.36 | 22.74 | **22.88** | 22.75 | 20.97 | 20.94 | 20.85 | 20.38 | 20.41 | 20.45 |
| | | 36 | 18 | 21.30 | 21.34 | 21.28 | 22.62 | 22.68 | 22.63 | 20.91 | 20.85 | 20.87 | 20.44 | 20.41 | **20.46** |
| | | 75 | 0 | **21.38** | **21.38** | 21.36 | 22.60 | 22.74 | 22.74 | 20.87 | 20.81 | 20.86 | 20.41 | 20.38 | 20.44 |

## OUTPUT POWER FOR 5G NR n66 (20.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 344000 | 349000 | 354000 | 344000 | 349000 | 354000 | 344000 | 349000 | 354000 | 344000 | 349000 | 354000 |
| | | | | 1720.0 | 1745.0 | 1770.0 | 1720.0 | 1745.0 | 1770.0 | 1720.0 | 1745.0 | 1770.0 | 1720.0 | 1745.0 | 1770.0 |
| 20.0 | BPSK | 1 | 0 | 25.45 | 25.36 | 25.42 | 25.48 | 25.54 | **25.70** | 24.84 | 24.85 | 24.77 | **24.20** | 24.07 | 24.11 |
| | | 1 | 1 | **25.64** | 25.56 | 25.63 | **25.70** | 25.47 | 25.47 | 25.02 | 25.01 | 24.98 | 24.17 | 24.07 | 24.11 |
| | | 1 | 104 | 25.63 | 25.63 | 25.63 | 25.38 | 25.59 | 25.42 | 25.07 | **25.12** | 25.03 | 24.11 | 24.14 | 24.06 |
| | | 1 | 105 | 25.42 | 25.45 | 25.45 | 25.38 | **25.70** | 25.44 | 24.89 | 25.04 | 24.90 | 24.12 | 24.15 | 24.06 |
| | | 50 | 25 | 25.60 | 25.57 | 25.60 | 25.32 | 25.40 | 25.43 | 24.97 | 25.09 | 24.95 | 24.12 | 24.09 | 24.06 |
| | | 100 | 0 | 25.41 | 25.38 | 25.41 | 25.42 | 25.46 | 25.42 | 24.82 | 24.91 | 24.62 | 24.12 | 24.06 | 24.08 |
| | QPSK | 1 | 0 | 24.92 | 24.92 | 24.96 | 25.41 | 25.48 | 25.49 | 24.44 | 24.45 | 24.13 | 24.02 | 23.84 | 23.99 |
| | | 1 | 1 | **25.70** | 25.59 | 25.68 | 25.43 | 25.51 | 25.47 | 25.16 | 25.15 | 25.18 | 24.19 | 24.06 | **24.20** |
| | | 1 | 104 | 25.68 | **25.70** | **25.70** | 25.39 | **25.53** | 25.48 | **25.20** | **25.20** | **25.20** | 24.19 | **24.20** | 24.17 |
| | | 1 | 105 | 24.97 | 25.02 | 25.03 | 25.42 | **25.53** | 25.49 | 24.52 | 24.62 | 24.54 | 23.96 | 23.99 | 23.95 |
| | | 50 | 25 | 25.63 | 25.58 | 25.62 | 25.32 | 25.44 | 25.43 | 25.06 | 25.17 | 25.12 | 24.13 | 24.07 | 24.10 |
| | | 100 | 0 | 24.63 | 24.84 | 24.90 | 25.40 | 25.43 | 25.42 | 24.13 | 24.47 | 24.41 | 23.92 | 23.89 | 23.86 |
| | 16QAM | 1 | 0 | 24.20 | 24.12 | 24.21 | 25.50 | 25.49 | 25.54 | 23.65 | 23.71 | 23.70 | 23.21 | 23.07 | 23.15 |
| | | 1 | 1 | **25.21** | 25.12 | 25.19 | 25.50 | 25.51 | **25.65** | 24.69 | 24.59 | 24.69 | 24.10 | 24.04 | 24.14 |
| | | 1 | 104 | 25.16 | 25.19 | 25.17 | 25.55 | 25.63 | 25.48 | 24.60 | 24.66 | **24.77** | 24.14 | **24.17** | 24.15 |
| | | 1 | 105 | 24.14 | 24.18 | 24.13 | 25.36 | 25.52 | 25.45 | 23.52 | 23.66 | 23.73 | 23.14 | 23.15 | 23.15 |
| | | 50 | 25 | 24.87 | 24.95 | 24.87 | 25.30 | 25.36 | 25.43 | 24.13 | 24.33 | 24.44 | 23.89 | 23.81 | 23.91 |
| | | 100 | 0 | 23.86 | 23.95 | 23.90 | 25.16 | 25.23 | 25.21 | 23.24 | 23.37 | 23.41 | 22.92 | 22.82 | 22.90 |
| | 64QAM | 1 | 0 | 23.61 | 23.54 | 23.58 | 24.93 | 25.00 | 24.66 | 23.02 | 23.12 | 23.03 | **22.66** | 22.48 | 22.53 |
| | | 1 | 1 | **23.63** | 23.55 | 23.60 | 24.96 | 25.03 | 24.83 | 22.98 | 23.11 | 23.07 | **22.66** | 22.47 | 22.53 |
| | | 1 | 104 | 23.54 | 23.62 | 23.61 | 24.99 | 24.92 | 24.88 | 22.99 | 23.20 | 23.09 | 22.54 | 22.52 | 22.57 |
| | | 1 | 105 | 23.55 | 23.60 | 23.58 | 25.00 | 25.00 | **25.03** | 22.96 | **23.22** | 23.09 | 22.54 | 22.49 | 22.56 |
| | | 50 | 25 | 23.34 | 23.41 | 23.34 | 24.66 | 24.68 | 24.67 | 22.59 | 22.86 | 22.95 | 22.44 | 22.35 | 22.40 |
| | | 100 | 0 | 23.35 | 23.42 | 23.36 | 24.74 | 24.72 | 24.69 | 22.67 | 22.77 | 22.96 | 22.43 | 22.46 | 22.45 |
| | 256QAM | 1 | 0 | 21.39 | 21.29 | 21.36 | 22.63 | 22.73 | 22.59 | 20.72 | 20.77 | 20.86 | 20.44 | 20.32 | 20.40 |
| | | 1 | 1 | 21.35 | 21.31 | 21.38 | 22.71 | 22.67 | 22.73 | 20.73 | 20.77 | 20.91 | **20.46** | 20.33 | 20.40 |
| | | 1 | 104 | 21.36 | 21.39 | **21.42** | 22.68 | **22.85** | 22.68 | 20.82 | 20.84 | 20.95 | 20.37 | 20.35 | 20.38 |
| | | 1 | 105 | 21.31 | 21.37 | 21.41 | 22.58 | 22.81 | 22.67 | 20.81 | 20.82 | 20.95 | 20.34 | 20.38 | 20.41 |
| | | 50 | 25 | 21.32 | 21.33 | 21.33 | 22.67 | 22.77 | 22.68 | 20.73 | 20.82 | **20.99** | 20.39 | 20.27 | 20.39 |
| | | 100 | 0 | 21.33 | 21.37 | 21.35 | 22.63 | 22.68 | 22.64 | 20.71 | 20.77 | 20.95 | 20.41 | 20.29 | 20.36 |

## OUTPUT POWER FOR 5G NR n66 (30.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 345000 | 349000 | 353000 | 345000 | 349000 | 353000 | 345000 | 349000 | 353000 | 345000 | 349000 | 353000 |
| | | | | 1725.0 | 1745.0 | 1765.0 | 1725.0 | 1745.0 | 1765.0 | 1725.0 | 1745.0 | 1765.0 | 1725.0 | 1745.0 | 1765.0 |
| 30.0 | BPSK | 1 | 0 | 25.44 | 25.47 | 25.41 | **25.70** | 24.99 | 24.90 | 25.02 | 24.82 | 24.76 | **24.20** | 24.14 | **24.20** |
| | | 1 | 1 | 25.66 | **25.68** | 25.64 | 25.06 | 24.97 | 24.83 | **25.16** | 24.96 | 25.00 | **24.20** | 24.16 | 24.19 |
| | | 1 | 158 | 25.63 | 25.66 | 25.60 | 25.03 | 25.00 | 24.91 | 25.12 | 25.04 | 25.03 | 24.06 | 24.19 | 24.03 |
| | | 1 | 159 | 25.42 | 25.49 | 25.42 | 25.06 | 24.99 | 25.20 | 24.91 | 24.88 | 24.78 | 24.05 | **24.20** | 24.06 |
| | | 80 | 40 | 25.58 | 25.62 | 25.67 | 25.00 | 24.93 | 24.94 | 25.07 | 25.02 | 25.01 | 24.10 | 24.10 | 24.12 |
| | | 160 | 0 | 25.39 | 25.45 | 25.42 | 25.02 | 24.97 | 24.98 | 24.91 | 24.95 | 24.94 | 24.11 | 24.06 | 24.14 |
| | QPSK | 1 | 0 | 24.65 | 25.01 | 24.97 | 25.06 | 24.97 | 24.90 | 24.44 | 24.48 | 24.42 | 23.91 | 23.94 | 24.01 |
| | | 1 | 1 | 25.65 | 25.67 | 25.68 | 25.12 | 24.93 | 24.94 | **25.20** | 25.15 | 25.16 | 24.12 | 24.11 | 24.13 |
| | | 1 | 158 | **25.70** | **25.70** | 25.67 | 25.09 | **25.70** | 24.93 | 25.12 | **25.20** | 25.11 | 23.99 | **24.19** | 24.10 |
| | | 1 | 159 | 24.99 | 25.02 | 24.96 | 25.11 | 24.93 | 24.86 | 24.46 | 24.38 | 24.48 | 23.80 | 24.00 | 23.91 |
| | | 80 | 40 | 25.60 | 25.66 | **25.70** | 25.01 | 24.93 | 24.96 | 25.18 | 24.93 | **25.20** | 24.05 | 24.04 | 24.13 |
| | | 160 | 0 | 24.88 | 24.95 | 24.94 | 25.07 | 24.99 | 24.93 | 24.45 | 24.28 | 24.42 | 23.86 | 23.84 | 23.91 |
| | 16QAM | 1 | 0 | 24.20 | 24.21 | 24.19 | 25.07 | 24.85 | 24.83 | 23.68 | 23.45 | 23.68 | 23.22 | 23.13 | 23.18 |
| | | 1 | 1 | 25.19 | **25.21** | 25.20 | 24.80 | 25.10 | 22.01 | **24.72** | 24.49 | 24.63 | **24.17** | 24.10 | 24.16 |
| | | 1 | 158 | 25.17 | 25.19 | 25.18 | **25.19** | 25.16 | 25.14 | 24.63 | 24.52 | 24.62 | 24.07 | **24.17** | 24.12 |
| | | 1 | 159 | 24.15 | 24.20 | 24.14 | 24.93 | 24.98 | 25.04 | 23.73 | 23.48 | 23.65 | 23.06 | 23.18 | 23.15 |
| | | 80 | 40 | 24.86 | 24.98 | 24.96 | 25.06 | 24.95 | 24.92 | 24.38 | 24.10 | 24.45 | 23.92 | 23.91 | 23.86 |
| | | 160 | 0 | 23.89 | 23.95 | 23.99 | 24.86 | 24.69 | 24.79 | 23.45 | 23.26 | 23.47 | 22.89 | 22.80 | 22.96 |
| | 64QAM | 1 | 0 | 23.60 | **23.67** | 23.60 | 24.48 | 24.33 | 24.33 | **23.16** | 22.76 | 23.07 | 22.65 | 22.45 | 22.65 |
| | | 1 | 1 | 23.62 | 23.66 | 23.61 | 24.53 | 24.32 | 24.30 | 23.12 | 22.93 | 23.13 | **22.66** | 22.46 | 22.60 |
| | | 1 | 158 | 23.57 | 23.66 | 23.56 | **24.61** | 24.23 | 24.43 | 23.03 | 23.07 | 23.11 | 22.47 | 22.49 | 22.62 |
| | | 1 | 159 | 23.55 | 23.64 | 23.56 | 24.32 | 24.48 | 24.50 | 23.01 | 23.07 | 23.09 | 22.47 | 22.51 | 22.62 |
| | | 80 | 40 | 23.41 | 23.48 | 23.44 | 24.35 | 24.23 | 24.25 | 22.90 | 22.86 | 22.97 | 22.39 | 22.34 | 22.52 |
| | | 160 | 0 | 23.44 | 23.50 | 23.44 | 24.35 | 24.23 | 24.26 | 22.90 | 22.77 | 22.92 | 22.38 | 22.30 | 22.47 |
| | 256QAM | 1 | 0 | 21.38 | 21.41 | 21.39 | 22.23 | 22.28 | 22.02 | 21.00 | 20.64 | 20.87 | 20.46 | 20.33 | 20.53 |
| | | 1 | 1 | 21.41 | 21.44 | 21.35 | 22.18 | 22.22 | 22.00 | 21.02 | 20.56 | 20.91 | 20.47 | 20.31 | 20.55 |
| | | 1 | 158 | 21.48 | 21.53 | 21.48 | **22.43** | 22.34 | 22.35 | 21.07 | 20.69 | **21.09** | 20.42 | 20.58 | 20.59 |
| | | 1 | 159 | **21.55** | 21.52 | 21.47 | 22.42 | 22.29 | 22.29 | 21.04 | 20.69 | 20.98 | 20.41 | **20.63** | 20.57 |
| | | 80 | 40 | 21.42 | 21.46 | 21.44 | 22.21 | 22.10 | 22.13 | 20.93 | 20.59 | 20.81 | 20.31 | 20.46 | 20.46 |
| | | 160 | 0 | 21.42 | 21.44 | 21.41 | 22.23 | 22.19 | 22.18 | 20.91 | 20.56 | 20.85 | 20.31 | 20.51 | 20.47 |

## OUTPUT POWER FOR 5G NR n66 (40.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 346000 | 349000 | 352000 | 346000 | 349000 | 352000 | 346000 | 349000 | 352000 | 346000 | 349000 | 352000 |
| | | | | 1730.0 | 1745.0 | 1760.0 | 1730.0 | 1745.0 | 1760.0 | 1730.0 | 1745.0 | 1760.0 | 1730.0 | 1745.0 | 1760.0 |
| 40.0 | BPSK | 1 | 0 | 25.49 | 25.42 | 25.40 | 25.49 | 25.30 | 25.46 | 24.97 | 24.85 | 24.94 | 24.17 | 24.13 | 24.12 |
| | | 1 | 1 | **25.70** | 25.64 | 25.61 | 25.48 | 25.37 | **25.70** | 25.16 | 25.03 | 25.13 | **24.20** | 24.15 | 24.11 |
| | | 1 | 214 | 25.64 | 25.67 | 25.66 | 25.42 | **25.70** | 25.41 | **25.17** | 25.16 | 25.14 | 24.08 | 24.15 | 24.12 |
| | | 1 | 215 | 25.44 | 25.48 | 25.47 | 25.42 | 25.39 | 25.41 | 24.96 | 24.97 | 24.95 | 24.05 | 24.16 | 24.15 |
| | | 108 | 54 | 25.62 | 25.65 | 25.61 | 25.35 | 25.37 | 25.47 | 25.11 | 25.01 | 25.12 | 24.00 | 24.07 | **24.20** |
| | | 216 | 0 | 25.42 | 25.45 | 25.40 | 25.47 | 25.39 | 25.50 | 24.96 | 24.85 | 24.95 | 24.07 | 23.98 | 24.16 |
| | QPSK | 1 | 0 | 24.34 | 25.01 | 24.97 | **25.70** | 25.41 | 25.46 | 23.25 | 24.04 | 24.50 | 24.04 | 24.03 | 24.00 |
| | | 1 | 1 | 25.36 | **25.70** | 25.66 | 25.45 | 25.35 | 25.39 | 24.39 | 25.08 | 25.17 | 24.17 | 24.19 | 24.17 |
| | | 1 | 214 | 25.68 | **25.70** | **25.70** | 25.36 | 25.27 | 25.40 | **25.20** | **25.20** | 25.17 | 24.06 | **24.20** | 24.16 |
| | | 1 | 215 | 25.01 | 25.03 | 24.99 | 25.34 | 25.62 | 25.34 | 24.08 | 24.49 | 24.46 | 23.90 | 24.00 | 23.94 |
| | | 108 | 54 | 25.64 | 25.69 | 25.67 | 25.43 | 25.43 | 25.49 | 25.19 | 25.09 | **25.20** | 24.12 | 24.13 | 24.19 |
| | | 216 | 0 | 24.91 | 24.98 | 24.94 | 25.49 | 25.45 | 25.49 | 24.41 | 24.36 | 24.46 | 23.89 | 23.86 | 23.94 |
| | 16QAM | 1 | 0 | 24.22 | 24.16 | 24.14 | **25.68** | 25.47 | 25.48 | 23.74 | 23.63 | 23.71 | 23.27 | 23.22 | 23.11 |
| | | 1 | 1 | **25.26** | 25.19 | 25.18 | 25.61 | 25.38 | 25.53 | **24.73** | 24.61 | 24.68 | **24.17** | **24.17** | 24.13 |
| | | 1 | 214 | 25.17 | 25.20 | 25.19 | 25.50 | 25.67 | 25.51 | 24.68 | 24.69 | 24.69 | 24.09 | 24.11 | 24.13 |
| | | 1 | 215 | 24.15 | 24.21 | 24.16 | 25.52 | 25.42 | 25.45 | 23.67 | 23.70 | 23.65 | 23.09 | 23.13 | 23.16 |
| | | 108 | 54 | 24.97 | 24.98 | 24.95 | 25.41 | 25.42 | 25.50 | 24.37 | 24.37 | 24.43 | 23.92 | 23.80 | 23.98 |
| | | 216 | 0 | 23.90 | 23.95 | 23.91 | 25.28 | 25.24 | 25.27 | 23.37 | 23.33 | 23.40 | 22.91 | 22.81 | 22.92 |
| | 64QAM | 1 | 0 | 23.70 | 23.65 | 23.55 | 24.73 | 24.96 | 24.99 | 23.06 | 23.09 | 23.05 | **22.65** | 22.52 | 22.53 |
| | | 1 | 1 | 23.69 | 23.60 | 23.55 | 24.95 | 24.90 | 24.92 | 23.07 | 23.08 | 23.01 | 22.62 | 22.54 | 22.53 |
| | | 1 | 214 | 23.59 | **23.77** | 23.56 | 24.53 | 24.64 | 24.93 | **23.28** | 23.04 | 23.07 | 22.46 | 22.47 | 22.55 |
| | | 1 | 215 | 23.58 | 23.75 | 23.56 | 24.90 | 24.72 | **25.04** | 23.02 | 23.17 | 23.09 | 22.46 | 22.45 | 22.52 |
| | | 108 | 54 | 23.34 | 23.50 | 23.35 | 24.73 | 24.67 | 24.78 | 22.90 | 22.86 | 22.97 | 22.42 | 22.39 | 22.46 |
| | | 216 | 0 | 23.33 | 23.52 | 23.36 | 24.74 | 24.71 | 24.78 | 22.95 | 22.82 | 22.94 | 22.37 | 22.31 | 22.44 |
| | 256QAM | 1 | 0 | 21.40 | 21.34 | 21.31 | 22.72 | 22.60 | 22.58 | 20.96 | 20.85 | 20.80 | 20.44 | 20.38 | 20.33 |
| | | 1 | 1 | 21.43 | 21.38 | 21.30 | 22.49 | 22.51 | 22.58 | 20.93 | 20.86 | 20.75 | 20.44 | 20.34 | 20.34 |
| | | 1 | 214 | 21.48 | 21.64 | 21.52 | **22.94** | 22.78 | 22.60 | 21.07 | 21.07 | 20.97 | 20.51 | 20.51 | 20.50 |
| | | 1 | 215 | 21.50 | **21.66** | 21.53 | 22.80 | 22.90 | 22.88 | 21.07 | 21.06 | 20.96 | **20.54** | 20.51 | 20.52 |
| | | 108 | 54 | 21.34 | 21.52 | 21.35 | 22.61 | 22.58 | 22.69 | 20.97 | 20.83 | 20.86 | 20.39 | 20.36 | 20.42 |
| | | 216 | 0 | 21.32 | 21.50 | 21.35 | 22.64 | 22.62 | 22.76 | 20.94 | 20.80 | **21.08** | 20.37 | 20.30 | 20.37 |

## 8.6. 5G NR n70

| Test Engineer ID: | 27979 | Test Date: | 5/3/2022 |
|---|---|---|---|

### OUTPUT POWER FOR 5G NR n70 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 339500 | 340500 | 341500 | 339500 | 340500 | 341500 | 339500 | 340500 | 341500 | 339500 | 340500 | 341500 |
| | | | | 1697.5 | 1702.5 | 1707.5 | 1697.5 | 1702.5 | 1707.5 | 1697.5 | 1702.5 | 1707.5 | 1697.5 | 1702.5 | 1707.5 |
| 5.0 | BPSK | 1 | 0 | 25.41 | 25.43 | 25.49 | **25.70** | **25.70** | 25.55 | 24.97 | 24.99 | 24.98 | 24.12 | **24.20** | 24.15 |
| | | 1 | 1 | 25.68 | **25.69** | 25.66 | 25.46 | **25.70** | 25.48 | **25.20** | 25.17 | 25.17 | 24.11 | 24.18 | 24.15 |
| | | 1 | 23 | **25.69** | 25.64 | 25.63 | 25.40 | 25.32 | 25.45 | 25.15 | **25.20** | 25.13 | 24.08 | 24.07 | 24.15 |
| | | 1 | 24 | 25.44 | 25.48 | 25.46 | 25.40 | 25.42 | 25.45 | 24.93 | 25.05 | 24.94 | 24.11 | 24.08 | 24.13 |
| | | 12 | 6 | 25.56 | 25.66 | 25.66 | 25.40 | 25.31 | 25.42 | 25.14 | 25.14 | 25.15 | 24.09 | 24.17 | 24.12 |
| | | 25 | 0 | 25.41 | 25.36 | 25.38 | 25.41 | 25.27 | 25.44 | 24.88 | 24.86 | 24.88 | 24.06 | 24.04 | 24.07 |
| | QPSK | 1 | 0 | 24.94 | 25.02 | 25.04 | 25.48 | 25.44 | 25.49 | 24.51 | 24.51 | 24.48 | 23.95 | 23.97 | 23.99 |
| | | 1 | 1 | **25.70** | 25.65 | **25.70** | 25.49 | 25.47 | **25.70** | **25.20** | 25.17 | **25.20** | **24.20** | 24.15 | **24.20** |
| | | 1 | 23 | 25.69 | **25.70** | 25.68 | 25.49 | 25.38 | 25.49 | 25.14 | 25.18 | 25.16 | 24.13 | 24.11 | 24.18 |
| | | 1 | 24 | 24.88 | 24.96 | 24.99 | 25.45 | 25.40 | 25.48 | 24.47 | 24.52 | 24.48 | 23.93 | 23.93 | 23.99 |
| | | 12 | 6 | 25.56 | 25.63 | 25.65 | 25.38 | 25.29 | 25.46 | 25.15 | 25.16 | 25.14 | 24.13 | 24.13 | 24.13 |
| | | 25 | 0 | 24.87 | 24.92 | 24.94 | 25.40 | 25.29 | 25.45 | 24.44 | 24.43 | 24.45 | 23.90 | 23.89 | 23.93 |
| | 16QAM | 1 | 0 | 23.77 | 24.12 | 24.17 | 25.48 | 25.55 | 25.48 | 23.70 | 23.69 | 23.68 | 23.17 | 23.17 | 23.21 |
| | | 1 | 1 | 24.80 | **25.21** | 25.20 | 25.50 | 25.50 | 25.30 | 24.73 | 24.73 | 24.72 | 24.00 | 24.16 | 24.00 |
| | | 1 | 23 | 24.74 | 25.14 | 25.17 | **25.67** | 25.52 | **25.67** | 24.68 | **24.75** | 24.68 | 24.14 | 24.12 | **24.17** |
| | | 1 | 24 | 23.82 | 24.11 | 24.03 | 25.43 | 25.37 | 25.48 | 23.69 | 23.78 | 23.67 | 23.16 | 23.12 | 23.15 |
| | | 12 | 6 | 24.83 | 24.96 | 24.95 | 25.39 | 25.44 | 25.39 | 24.32 | 24.43 | 24.38 | 23.81 | 23.81 | 23.92 |
| | | 25 | 0 | 23.82 | 23.86 | 23.94 | 25.31 | 25.33 | 25.22 | 23.45 | 23.51 | 23.49 | 22.88 | 22.90 | 22.96 |
| | 64QAM | 1 | 0 | 23.57 | 23.60 | 23.61 | 24.98 | 25.05 | 24.88 | 23.13 | 23.15 | 23.14 | 22.65 | 22.66 | 22.61 |
| | | 1 | 1 | 23.36 | 23.59 | **23.66** | 25.00 | **25.07** | 24.91 | 23.16 | 23.18 | 23.15 | 22.67 | **22.68** | 22.62 |
| | | 1 | 23 | 23.56 | 23.55 | 23.58 | 24.90 | 24.91 | 24.82 | 23.10 | **23.20** | 23.09 | 22.60 | 22.56 | 22.55 |
| | | 1 | 24 | 23.51 | 23.48 | 23.59 | 24.89 | 24.85 | 24.85 | 23.13 | 23.18 | 23.07 | 22.58 | 22.55 | 22.55 |
| | | 12 | 6 | 23.29 | 23.31 | 23.39 | 24.74 | 24.82 | 24.73 | 22.91 | 22.92 | 23.00 | 22.42 | 22.50 | 22.48 |
| | | 25 | 0 | 23.33 | 23.42 | 23.42 | 24.72 | 24.82 | 24.62 | 22.89 | 22.91 | 22.93 | 22.35 | 22.40 | 22.46 |
| | 256QAM | 1 | 0 | **21.43** | 21.34 | 21.38 | 22.71 | 22.90 | 22.65 | 20.94 | 20.95 | 20.93 | 20.39 | 20.50 | 20.43 |
| | | 1 | 1 | 21.37 | 21.29 | 21.37 | 22.73 | **22.93** | 22.76 | **21.04** | 20.94 | 20.96 | 20.40 | 20.50 | 20.43 |
| | | 1 | 23 | 21.35 | 21.24 | 21.38 | 22.61 | 22.76 | 22.74 | 20.98 | 21.01 | 20.91 | 20.40 | 20.36 | 20.39 |
| | | 1 | 24 | 21.35 | 21.32 | 21.29 | 22.65 | 22.82 | 22.75 | 20.96 | 20.97 | 20.86 | 20.35 | 20.35 | 20.39 |
| | | 12 | 6 | 21.28 | 21.32 | 21.33 | 22.70 | 22.87 | 22.78 | 21.00 | 20.99 | 20.90 | 20.42 | **20.51** | 20.37 |
| | | 25 | 0 | 21.29 | 21.37 | 21.35 | 22.70 | 22.80 | 22.67 | 21.00 | 21.01 | 20.92 | 20.47 | 20.47 | 20.44 |

### OUTPUT POWER FOR 5G NR n70 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | 340000 | 340500 | 341000 | 340000 | 340500 | 341000 | 340000 | 340500 | 341000 | 340000 | 340500 | 341000 |
| | | | | 1700.0 | 1702.5 | 1705.0 | 1700.0 | 1702.5 | 1705.0 | 1700.0 | 1702.5 | 1705.0 | 1700.0 | 1702.5 | 1705.0 |
| 10.0 | BPSK | 1 | 0 | 25.43 | 25.38 | 25.48 | 25.69 | 25.46 | 25.46 | 24.94 | 24.93 | 24.90 | 24.18 | 24.13 | 24.14 |
| | | 1 | 1 | 25.61 | 25.63 | **25.64** | 25.69 | 25.47 | **25.70** | 25.14 | 25.15 | 25.11 | **24.20** | 24.12 | 24.14 |
| | | 1 | 50 | 25.62 | 25.60 | 25.61 | 25.53 | 25.41 | 25.42 | 25.12 | **25.19** | 25.17 | 24.02 | 23.96 | 23.99 |
| | | 1 | 51 | 25.42 | 25.41 | 25.47 | 25.52 | 25.40 | 25.38 | 24.94 | 24.98 | 24.97 | 24.02 | 23.99 | 23.98 |
| | | 25 | 12 | 25.64 | 25.60 | 25.62 | 25.60 | 25.34 | 25.34 | 25.09 | 25.10 | 25.05 | 24.18 | 24.06 | 23.99 |
| | | 50 | 0 | 25.42 | 25.44 | 25.43 | 25.60 | 25.43 | 25.36 | 24.90 | 24.92 | 24.87 | 24.11 | 24.01 | 24.04 |
| | QPSK | 1 | 0 | 24.94 | 24.91 | 24.96 | 25.69 | 25.49 | 25.48 | 24.46 | 24.45 | 24.42 | 23.95 | 23.98 | 23.92 |
| | | 1 | 1 | 25.60 | **25.70** | **25.70** | **25.70** | **25.70** | 25.49 | 25.16 | **25.20** | 25.14 | 24.12 | **24.20** | **24.20** |
| | | 1 | 50 | 25.58 | 25.58 | 25.60 | 25.54 | 25.45 | 25.40 | **25.20** | **25.20** | **25.20** | 24.05 | 23.99 | 24.00 |
| | | 1 | 51 | 24.95 | 24.87 | 24.90 | 25.53 | 25.44 | 25.41 | 24.45 | 24.50 | 24.47 | 23.86 | 23.80 | 23.79 |
| | | 25 | 12 | **25.70** | 25.67 | 25.65 | 25.63 | 25.38 | 25.34 | 25.15 | 25.16 | 25.15 | 24.10 | 24.08 | 24.05 |
| | | 50 | 0 | 24.95 | 24.91 | 24.92 | 25.61 | 25.46 | 25.35 | 24.45 | 24.45 | 24.42 | 23.93 | 23.87 | 23.87 |
| | 16QAM | 1 | 0 | 24.19 | 24.20 | 24.17 | 25.34 | 25.48 | 25.47 | 23.66 | 23.66 | 23.65 | 23.15 | 23.21 | 23.16 |
| | | 1 | 1 | **25.40** | 25.16 | 25.22 | 25.56 | 25.50 | 25.30 | 24.69 | 24.68 | 24.67 | 24.17 | 24.10 | **24.18** |
| | | 1 | 50 | 25.14 | 25.12 | 25.12 | 25.40 | 25.65 | 25.62 | **24.72** | 24.71 | 24.70 | 24.08 | 24.04 | 24.00 |
| | | 1 | 51 | 24.02 | 24.17 | 24.07 | 25.17 | 25.42 | 25.41 | 23.72 | 23.68 | 23.69 | 23.07 | 22.98 | 23.01 |
| | | 25 | 12 | 25.03 | 24.89 | 25.02 | **25.70** | 25.40 | 25.42 | 24.48 | 24.47 | 24.42 | 23.94 | 23.94 | 23.88 |
| | | 50 | 0 | 23.95 | 23.88 | 23.92 | 25.42 | 25.15 | 25.15 | 23.47 | 23.45 | 23.49 | 22.92 | 22.87 | 22.83 |
| | 64QAM | 1 | 0 | 23.58 | 23.54 | 23.41 | 25.18 | 24.89 | 24.87 | 23.09 | 23.09 | 23.08 | 22.58 | 22.60 | 22.61 |
| | | 1 | 1 | 23.57 | 23.56 | 23.50 | **25.19** | 24.90 | 24.88 | 23.09 | **23.13** | 23.10 | 22.61 | 22.61 | **22.64** |
| | | 1 | 50 | **23.59** | 23.51 | 23.49 | 24.97 | 24.81 | 24.79 | **23.13** | **23.13** | 23.12 | 22.47 | 22.42 | 22.42 |
| | | 1 | 51 | 23.58 | 23.40 | 23.45 | 24.91 | 24.80 | 24.79 | 23.10 | 23.07 | 23.05 | 22.45 | 22.39 | 22.37 |
| | | 25 | 12 | 23.33 | 23.36 | 23.42 | 24.89 | 24.60 | 24.55 | 22.98 | 22.93 | 23.04 | 22.50 | 22.41 | 22.31 |
| | | 50 | 0 | 23.46 | 23.38 | 23.41 | 24.88 | 24.67 | 24.62 | 22.95 | 22.95 | 23.05 | 22.42 | 22.38 | 22.36 |
| | 256QAM | 1 | 0 | 21.32 | 21.30 | 21.28 | **22.94** | 22.70 | 22.68 | 20.92 | 20.87 | 20.87 | 20.40 | 20.40 | 20.39 |
| | | 1 | 1 | **21.49** | 21.35 | 21.43 | 22.92 | 22.70 | 22.70 | 20.93 | 20.88 | 20.88 | 20.45 | 20.44 | 20.39 |
| | | 1 | 50 | 21.33 | 21.37 | 21.26 | 22.78 | 22.66 | 22.64 | 20.93 | 20.91 | 20.92 | 20.29 | 20.26 | 20.26 |
| | | 1 | 51 | 21.22 | 21.28 | 21.27 | 22.74 | 22.61 | 22.60 | 20.89 | 20.89 | 20.90 | 20.29 | 20.22 | 20.23 |
| | | 25 | 12 | 21.34 | 21.38 | 21.31 | **22.94** | 22.65 | 22.71 | 20.99 | 20.94 | 20.96 | **20.51** | 20.49 | 20.41 |
| | | 50 | 0 | 21.39 | 21.34 | 21.29 | 22.84 | 22.68 | 22.66 | **21.01** | 21.00 | 20.96 | 20.49 | 20.43 | 20.32 |

## OUTPUT POWER FOR 5G NR n70 (15.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | | ANT 3 | | | ANT 4 | | |
| | | | | N/A | 340500 | N/A | N/A | 340500 | N/A | N/A | 340500 | N/A | N/A | 340500 | N/A |
| | | | | N/A | 1702.5 | N/A | N/A | 1702.5 | N/A | N/A | 1702.5 | N/A | N/A | 1702.5 | N/A |
| 15.0 | BPSK | 1 | 0 | | 25.45 | | | 25.46 | | | 24.98 | | | **24.20** | |
| | | 1 | 1 | | 25.62 | | | **25.48** | | | **25.16** | | | 24.09 | |
| | | 1 | 77 | | **25.70** | | | 25.34 | | | 25.12 | | | 24.03 | |
| | | 1 | 78 | | 25.51 | | | 25.43 | | | 24.93 | | | 24.03 | |
| | | 36 | 18 | | 25.51 | | | 25.28 | | | 25.07 | | | 24.01 | |
| | | 75 | 0 | | 25.33 | | | 25.39 | | | 24.90 | | | 24.02 | |
| | QPSK | 1 | 0 | | 24.91 | | | **25.70** | | | 24.51 | | | 23.95 | |
| | | 1 | 1 | | **25.68** | | | 25.48 | | | **25.20** | | | **24.11** | |
| | | 1 | 77 | | **25.68** | | | 25.43 | | | 25.13 | | | 23.98 | |
| | | 1 | 78 | | 24.98 | | | 25.41 | | | 24.44 | | | 23.87 | |
| | | 36 | 18 | | 25.55 | | | 25.31 | | | 25.13 | | | 24.07 | |
| | | 75 | 0 | | 24.83 | | | 25.41 | | | 24.43 | | | 23.87 | |
| | 16QAM | 1 | 0 | | 24.15 | | | 25.50 | | | 23.73 | | | 23.19 | |
| | | 1 | 1 | | **25.20** | | | 25.50 | | | **24.75** | | | **24.10** | |
| | | 1 | 77 | | 24.97 | | | **25.54** | | | 24.67 | | | 23.99 | |
| | | 1 | 78 | | 23.93 | | | 25.31 | | | 23.64 | | | 23.01 | |
| | | 36 | 18 | | 24.83 | | | 25.36 | | | 24.45 | | | 23.89 | |
| | | 75 | 0 | | 23.82 | | | 25.17 | | | 23.43 | | | 22.90 | |
| | 64QAM | 1 | 0 | | 23.55 | | | **24.92** | | | **23.19** | | | 22.63 | |
| | | 1 | 1 | | **23.60** | | | **24.92** | | | **23.19** | | | **22.65** | |
| | | 1 | 77 | | 23.56 | | | 24.76 | | | 23.18 | | | 22.51 | |
| | | 1 | 78 | | 23.54 | | | 24.80 | | | 23.17 | | | 22.49 | |
| | | 36 | 18 | | 23.38 | | | 24.59 | | | 22.90 | | | 22.36 | |
| | | 75 | 0 | | 23.42 | | | 24.58 | | | 22.89 | | | 22.40 | |
| | 256QAM | 1 | 0 | | 21.39 | | | 22.70 | | | 20.92 | | | 20.39 | |
| | | 1 | 1 | | 21.39 | | | **22.73** | | | **20.97** | | | **20.42** | |
| | | 1 | 77 | | 21.29 | | | 22.66 | | | 20.94 | | | 20.29 | |
| | | 1 | 78 | | 21.27 | | | 22.65 | | | 20.93 | | | 20.29 | |
| | | 36 | 18 | | 21.33 | | | 22.64 | | | 20.91 | | | 20.39 | |
| | | 75 | 0 | | **21.40** | | | 22.67 | | | 20.86 | | | 20.37 | |

# 8.7. LTE BAND 71 AND 5G NR n71

**Test Engineer ID:** 39004 **Test Date:** 4/25/2022

## OUTPUT POWER FOR LTE BAND 71 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 133147 | 133297 | 133447 | 133147 | 133297 | 133447 |
| | | | | 665.5 | 680.5 | 695.5 | 665.5 | 680.5 | 695.5 |
| 5.0 | QPSK | 1 | 0 | 25.61 | 25.40 | 25.33 | 24.47 | 24.51 | 24.42 |
| | | 1 | 12 | **25.70** | 25.52 | 25.41 | 24.60 | **24.70** | 24.49 |
| | | 1 | 24 | 25.57 | 25.33 | 25.21 | 24.46 | 24.47 | 24.35 |
| | | 12 | 0 | 24.83 | 24.64 | 24.62 | 23.42 | 23.45 | 23.40 |
| | | 12 | 6 | 24.92 | 24.76 | 24.65 | 23.50 | 23.59 | 23.45 |
| | | 12 | 11 | 24.89 | 24.69 | 24.62 | 23.48 | 23.50 | 23.39 |
| | | 25 | 0 | 24.87 | 24.68 | 24.62 | 23.47 | 23.55 | 23.39 |
| | 16QAM | 1 | 0 | 25.17 | 25.04 | 24.93 | 23.85 | 23.83 | 23.72 |
| | | 1 | 12 | **25.39** | 25.16 | 25.13 | 23.90 | **24.05** | 23.89 |
| | | 1 | 24 | 25.17 | 24.99 | 24.90 | 23.78 | 23.83 | 23.71 |
| | | 12 | 0 | 23.89 | 23.68 | 23.69 | 22.53 | 22.51 | 22.52 |
| | | 12 | 6 | 24.00 | 23.78 | 23.73 | 22.63 | 22.63 | 22.55 |
| | | 12 | 11 | 23.96 | 23.74 | 23.71 | 22.56 | 22.57 | 22.50 |
| | | 25 | 0 | 23.88 | 23.71 | 23.63 | 22.48 | 22.56 | 22.48 |
| | 64QAM | 1 | 0 | 24.17 | 23.96 | 23.82 | 22.78 | 22.84 | 22.64 |
| | | 1 | 12 | **24.18** | 24.06 | 23.88 | **22.89** | 22.87 | 22.72 |
| | | 1 | 24 | 24.14 | 23.92 | 23.77 | 22.82 | 22.75 | 22.60 |
| | | 12 | 0 | 22.79 | 22.64 | 22.65 | 21.64 | 21.43 | 21.46 |
| | | 12 | 6 | 22.90 | 22.75 | 22.70 | 21.72 | 21.51 | 21.52 |
| | | 12 | 11 | 22.87 | 22.69 | 22.63 | 21.68 | 21.49 | 21.46 |
| | | 25 | 0 | 22.88 | 22.69 | 22.60 | 21.63 | 21.58 | 21.37 |
| | 256QAM | 1 | 0 | 20.92 | 20.73 | 20.63 | 19.74 | 19.57 | 19.47 |
| | | 1 | 12 | **21.12** | 20.84 | 20.74 | **19.87** | 19.67 | 19.53 |
| | | 1 | 24 | 20.93 | 20.72 | 20.68 | 19.67 | 19.57 | 19.40 |
| | | 12 | 0 | 20.79 | 20.61 | 20.63 | 19.53 | 19.52 | 19.37 |
| | | 12 | 6 | 20.92 | 20.72 | 20.66 | 19.64 | 19.63 | 19.40 |
| | | 12 | 11 | 20.85 | 20.69 | 20.60 | 19.61 | 19.58 | 19.35 |
| | | 25 | 0 | 20.85 | 20.68 | 20.60 | 19.62 | 19.57 | 19.36 |

## OUTPUT POWER FOR LTE BAND 71 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 133172 | 133322 | 133422 | 133172 | 133322 | 133422 |
| | | | | 668.0 | 683.0 | 693.0 | 668.0 | 683.0 | 693.0 |
| 10.0 | QPSK | 1 | 0 | **25.70** | 25.57 | 25.49 | 24.65 | 24.60 | 24.42 |
| | | 1 | 24 | 25.68 | 25.52 | 25.47 | **24.70** | 24.60 | 24.41 |
| | | 1 | 49 | 25.58 | 25.48 | 25.41 | 24.62 | 24.57 | 24.35 |
| | | 25 | 0 | 24.92 | 24.78 | 24.72 | 23.60 | 23.52 | 23.33 |
| | | 25 | 12 | 24.97 | 24.76 | 24.72 | 23.69 | 23.57 | 23.32 |
| | | 25 | 24 | 24.96 | 24.79 | 24.75 | 23.64 | 23.56 | 23.37 |
| | | 50 | 0 | 24.96 | 24.75 | 24.72 | 23.67 | 23.57 | 23.28 |
| | 16QAM | 1 | 0 | **25.29** | 25.22 | 25.24 | **23.95** | 23.93 | 23.84 |
| | | 1 | 24 | 25.25 | 25.18 | 25.15 | 23.94 | 23.84 | 23.77 |
| | | 1 | 49 | 25.26 | 25.23 | 25.19 | 23.89 | 23.88 | 23.79 |
| | | 25 | 0 | 23.93 | 23.81 | 23.76 | 22.63 | 22.43 | 22.35 |
| | | 25 | 12 | 24.00 | 23.80 | 23.75 | 22.71 | 22.50 | 22.35 |
| | | 25 | 24 | 23.95 | 23.85 | 23.81 | 22.67 | 22.49 | 22.40 |
| | | 50 | 0 | 23.96 | 23.74 | 23.67 | 22.68 | 22.47 | 22.31 |
| | 64QAM | 1 | 0 | **24.31** | 24.16 | 24.07 | **23.00** | 22.79 | 22.66 |
| | | 1 | 24 | 24.25 | 24.09 | 24.07 | 22.97 | 22.75 | 22.63 |
| | | 1 | 49 | 24.18 | 24.05 | 24.02 | 22.91 | 22.71 | 22.64 |
| | | 25 | 0 | 22.93 | 22.77 | 22.70 | 21.64 | 21.40 | 21.32 |
| | | 25 | 12 | 22.99 | 22.77 | 22.70 | 21.71 | 21.47 | 21.32 |
| | | 25 | 24 | 22.94 | 22.81 | 22.74 | 21.69 | 21.43 | 21.36 |
| | | 50 | 0 | 22.96 | 22.72 | 22.67 | 21.69 | 21.46 | 21.28 |
| | 256QAM | 1 | 0 | 21.03 | 20.83 | 20.80 | 19.70 | 19.48 | 19.40 |
| | | 1 | 24 | **21.06** | 20.87 | 20.91 | **19.84** | 19.62 | 19.51 |
| | | 1 | 49 | 20.97 | 20.83 | 20.80 | 19.70 | 19.45 | 19.38 |
| | | 25 | 0 | 20.90 | 20.75 | 20.67 | 19.64 | 19.41 | 19.30 |
| | | 25 | 12 | 20.95 | 20.75 | 20.67 | 19.71 | 19.47 | 19.30 |
| | | 25 | 24 | 20.93 | 20.77 | 20.70 | 19.66 | 19.42 | 19.33 |
| | | 50 | 0 | 20.94 | 20.70 | 20.67 | 19.67 | 19.44 | 19.28 |

## OUTPUT POWER FOR LTE BAND 71 (15.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 133197 | 133297 | 133397 | 133197 | 133297 | 133397 |
| | | | | 670.5 | 680.5 | 690.5 | 670.5 | 680.5 | 690.5 |
| 15.0 | QPSK | 1 | 0 | **25.70** | 25.51 | 25.39 | 24.64 | 24.62 | 24.63 |
| | | 1 | 37 | 25.58 | 25.45 | 25.42 | **24.70** | 24.69 | 24.62 |
| | | 1 | 74 | 25.46 | 25.41 | 25.27 | 24.61 | 24.53 | 24.48 |
| | | 36 | 0 | 24.88 | 24.75 | 24.67 | 23.63 | 23.63 | 23.54 |
| | | 36 | 16 | 24.92 | 24.78 | 24.67 | 23.69 | 23.60 | 23.54 |
| | | 36 | 35 | 24.85 | 24.72 | 24.70 | 23.65 | 23.64 | 23.56 |
| | | 75 | 0 | 24.90 | 24.74 | 24.63 | 23.67 | 23.57 | 23.52 |
| | 16QAM | 1 | 0 | **25.19** | 25.14 | 25.01 | 23.93 | 23.88 | 23.83 |
| | | 1 | 37 | 25.14 | 25.07 | 25.01 | 23.96 | **23.98** | 23.87 |
| | | 1 | 74 | 24.97 | 24.98 | 24.83 | 23.88 | 23.79 | 23.69 |
| | | 36 | 0 | 23.89 | 23.76 | 23.69 | 22.66 | 22.64 | 22.57 |
| | | 36 | 16 | 23.95 | 23.78 | 23.67 | 22.71 | 22.63 | 22.57 |
| | | 36 | 35 | 23.87 | 23.73 | 23.71 | 22.67 | 22.64 | 22.57 |
| | | 75 | 0 | 23.91 | 23.76 | 23.68 | 22.68 | 22.60 | 22.57 |
| | 64QAM | 1 | 0 | **24.23** | 24.12 | 24.07 | 22.94 | 22.98 | 22.93 |
| | | 1 | 37 | 24.19 | 24.03 | 24.03 | **23.01** | 23.00 | 22.92 |
| | | 1 | 74 | 24.11 | 23.99 | 23.92 | 22.99 | 22.86 | 22.72 |
| | | 36 | 0 | 22.85 | 22.74 | 22.69 | 21.64 | 21.62 | 21.58 |
| | | 36 | 16 | 22.90 | 22.79 | 22.69 | 21.72 | 21.65 | 21.56 |
| | | 36 | 35 | 22.85 | 22.72 | 22.70 | 21.67 | 21.65 | 21.58 |
| | | 75 | 0 | 22.88 | 22.77 | 22.70 | 21.70 | 21.59 | 21.53 |
| | 256QAM | 1 | 0 | 20.96 | 20.86 | 20.71 | 19.71 | 19.77 | 19.65 |
| | | 1 | 37 | **21.01** | 20.88 | 20.91 | 19.85 | **19.91** | 19.77 |
| | | 1 | 74 | 20.87 | 20.91 | 20.75 | 19.84 | 19.80 | 19.72 |
| | | 36 | 0 | 20.85 | 20.73 | 20.68 | 19.64 | 19.62 | 19.55 |
| | | 36 | 16 | 20.89 | 20.78 | 20.66 | 19.72 | 19.61 | 19.54 |
| | | 36 | 35 | 20.83 | 20.72 | 20.68 | 19.67 | 19.64 | 19.59 |
| | | 75 | 0 | 20.90 | 20.74 | 20.67 | 19.70 | 19.59 | 19.59 |

## OUTPUT POWER FOR LTE BAND 71 (20.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 133222 | 133322 | 133372 | 133222 | 133322 | 133372 |
| | | | | 673.0 | 683.0 | 688.0 | 673.0 | 683.0 | 688.0 |
| 20.0 | QPSK | 1 | 0 | **25.70** | 25.64 | 25.58 | 24.61 | 24.66 | 24.62 |
| | | 1 | 49 | 25.66 | 25.54 | 25.52 | 24.62 | **24.70** | 24.64 |
| | | 1 | 99 | 25.57 | 25.51 | 25.41 | 24.53 | 24.56 | 24.50 |
| | | 50 | 0 | 24.96 | 24.87 | 24.80 | 23.61 | 23.64 | 23.59 |
| | | 50 | 24 | 24.99 | 24.80 | 24.79 | 23.66 | 23.69 | 23.66 |
| | | 50 | 49 | 24.89 | 24.81 | 24.80 | 23.57 | 23.62 | 23.57 |
| | | 100 | 0 | 24.99 | 24.89 | 24.78 | 23.65 | 23.61 | 23.57 |
| | 16QAM | 1 | 0 | 25.25 | 25.14 | 25.10 | 23.80 | 23.85 | 23.90 |
| | | 1 | 49 | **25.37** | 25.17 | 25.20 | 24.01 | **24.14** | 23.94 |
| | | 1 | 99 | 25.11 | 25.00 | 24.97 | 23.79 | 23.82 | 23.70 |
| | | 50 | 0 | 23.96 | 23.88 | 23.82 | 22.61 | 22.65 | 22.61 |
| | | 50 | 24 | 23.98 | 23.83 | 23.79 | 22.65 | 22.71 | 22.66 |
| | | 50 | 49 | 23.89 | 23.82 | 23.81 | 22.58 | 22.63 | 22.58 |
| | | 100 | 0 | 23.99 | 23.90 | 23.79 | 22.66 | 22.61 | 22.57 |
| | 64QAM | 1 | 0 | 24.21 | 24.16 | 24.10 | 23.03 | 22.91 | 23.03 |
| | | 1 | 49 | **24.33** | 24.18 | 24.21 | 23.12 | 22.97 | **23.17** |
| | | 1 | 99 | 24.03 | 24.06 | 23.90 | 23.00 | 22.77 | 22.85 |
| | | 50 | 0 | 22.94 | 22.86 | 22.80 | 21.68 | 21.67 | 21.61 |
| | | 50 | 24 | 22.98 | 22.82 | 22.77 | 21.72 | 21.71 | 21.67 |
| | | 50 | 49 | 22.91 | 22.80 | 22.80 | 21.65 | 21.62 | 21.59 |
| | | 100 | 0 | 22.98 | 22.93 | 22.77 | 21.72 | 21.60 | 21.61 |
| | 256QAM | 1 | 0 | 21.05 | 20.89 | 20.96 | 19.69 | 19.66 | 19.63 |
| | | 1 | 49 | **21.15** | 20.96 | 21.01 | 19.88 | 19.88 | 19.71 |
| | | 1 | 99 | 21.03 | 20.96 | 20.93 | 19.83 | **19.89** | 19.63 |
| | | 50 | 0 | 20.95 | 20.86 | 20.79 | 19.67 | 19.65 | 19.54 |
| | | 50 | 24 | 20.97 | 20.80 | 20.76 | 19.73 | 19.71 | 19.62 |
| | | 50 | 49 | 20.92 | 20.84 | 20.82 | 19.69 | 19.68 | 19.59 |
| | | 100 | 0 | 20.98 | 20.89 | 20.77 | 19.73 | 19.63 | 19.56 |

## 5G NR n71

**Test Engineer ID:** 27957 **Test Date:** 5/19/2022

## OUTPUT POWER FOR 5G NR n71 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 133100 | 136100 | 139100 | 133100 | 136100 | 139100 |
| | | | | 665.5 | 680.5 | 695.5 | 665.5 | 680.5 | 695.5 |
| 5.0 | BPSK | 1 | 0 | 25.19 | 25.07 | 25.16 | 24.50 | 24.44 | 24.42 |
| | | 1 | 1 | 25.66 | 25.58 | 25.61 | 24.68 | 24.68 | 24.66 |
| | | 1 | 23 | 25.51 | 25.62 | 25.66 | 24.63 | 24.60 | 24.61 |
| | | 1 | 24 | 25.00 | 25.11 | 25.17 | 24.36 | 24.37 | 24.37 |
| | | 12 | 6 | 25.50 | **25.68** | **25.68** | 24.56 | 24.69 | **24.70** |
| | | 25 | 0 | 24.93 | 25.10 | 25.05 | 24.30 | 24.39 | 24.36 |
| | QPSK | 1 | 0 | 24.64 | 24.62 | 24.63 | 23.84 | 24.01 | 23.95 |
| | | 1 | 1 | **25.70** | 25.56 | 25.63 | **24.70** | 24.67 | 24.66 |
| | | 1 | 23 | 25.56 | 25.66 | 25.63 | 24.63 | 24.61 | 24.63 |
| | | 1 | 24 | 24.50 | 24.67 | 24.65 | 23.86 | 23.91 | 23.93 |
| | | 12 | 6 | 25.24 | **25.70** | **25.70** | 24.56 | **24.70** | 24.68 |
| | | 25 | 0 | 24.48 | 24.66 | 24.65 | 23.87 | 23.98 | 23.95 |
| | 16QAM | 1 | 0 | 23.49 | 23.83 | 23.88 | 22.70 | 23.21 | 23.18 |
| | | 1 | 1 | 24.46 | 24.80 | **24.87** | 23.80 | **24.20** | **24.20** |
| | | 1 | 23 | 24.41 | 24.86 | 24.86 | 23.78 | 24.16 | 24.13 |
| | | 1 | 24 | 23.33 | 23.81 | 23.83 | 22.79 | 23.14 | 23.14 |
| | | 12 | 6 | 24.20 | 24.61 | 24.67 | 23.93 | 23.94 | 23.90 |
| | | 25 | 0 | 23.49 | 23.59 | 23.64 | 22.87 | 23.03 | 22.94 |
| | 64QAM | 1 | 0 | 23.19 | 23.22 | 23.21 | 22.44 | 22.61 | 22.51 |
| | | 1 | 1 | 23.30 | 23.23 | **23.31** | 22.56 | **22.66** | 22.55 |
| | | 1 | 23 | 23.08 | 23.16 | 23.30 | 22.52 | 22.51 | 22.54 |
| | | 1 | 24 | 23.04 | 23.14 | 23.23 | 22.42 | 22.55 | 22.57 |
| | | 12 | 6 | 22.68 | 23.16 | 23.15 | 22.29 | 22.41 | 22.34 |
| | | 25 | 0 | 22.94 | 23.18 | 23.13 | 22.30 | 22.38 | 22.37 |
| | 256QAM | 1 | 0 | 20.99 | 21.04 | 21.07 | 20.43 | 20.47 | 20.33 |
| | | 1 | 1 | 20.98 | 21.05 | 21.08 | 20.37 | 20.44 | 20.35 |
| | | 1 | 23 | 20.95 | 21.09 | 21.04 | 20.35 | 20.36 | 20.32 |
| | | 1 | 24 | 20.88 | 20.98 | 21.02 | 20.33 | 20.33 | 20.33 |
| | | 12 | 6 | 20.94 | 21.13 | **21.14** | 20.34 | **20.48** | 20.42 |
| | | 25 | 0 | 20.91 | 21.09 | 21.09 | 20.34 | 20.40 | 20.41 |

## OUTPUT POWER FOR 5G NR n71 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 133600 | 136600 | 138600 | 133600 | 136600 | 138600 |
| | | | | 668.0 | 683.0 | 693.0 | 668.0 | 683.0 | 693.0 |
| 10.0 | BPSK | 1 | 0 | 25.19 | 25.06 | 25.14 | 24.51 | 24.38 | 24.45 |
| | | 1 | 1 | 25.67 | 25.58 | 25.67 | **24.70** | 24.59 | 24.66 |
| | | 1 | 50 | 25.39 | **25.70** | 25.67 | 24.50 | **24.70** | 24.54 |
| | | 1 | 51 | 24.81 | 25.20 | 25.20 | 24.25 | 24.45 | 24.38 |
| | | 25 | 12 | 25.40 | 25.56 | 25.56 | 24.46 | 24.59 | 24.52 |
| | | 50 | 0 | 24.94 | 25.09 | 25.13 | 24.28 | 24.40 | 24.36 |
| | QPSK | 1 | 0 | 24.68 | 24.61 | 24.70 | 23.93 | 23.90 | 23.99 |
| | | 1 | 1 | **25.70** | 25.64 | **25.70** | 24.66 | 24.66 | **24.70** |
| | | 1 | 50 | 25.37 | 25.68 | 25.68 | 24.44 | 24.63 | 24.56 |
| | | 1 | 51 | 24.44 | 24.75 | 24.72 | 23.80 | 23.96 | 23.86 |
| | | 25 | 12 | 25.45 | 25.63 | 25.63 | 24.53 | 24.66 | 24.58 |
| | | 50 | 0 | 24.45 | 24.59 | 24.60 | 23.79 | 23.92 | 23.85 |
| | 16QAM | 1 | 0 | 23.80 | 23.87 | 23.99 | 22.77 | 23.22 | 23.19 |
| | | 1 | 1 | 24.85 | 24.86 | 24.86 | 23.77 | 24.18 | **24.19** |
| | | 1 | 50 | 24.66 | **24.88** | 24.79 | 23.62 | 24.16 | 24.12 |
| | | 1 | 51 | 23.56 | 23.88 | 23.82 | 22.63 | 23.12 | 23.04 |
| | | 25 | 12 | 24.48 | 24.58 | 24.62 | 23.76 | 23.84 | 23.86 |
| | | 50 | 0 | 23.45 | 23.58 | 23.65 | 22.76 | 22.91 | 22.81 |
| | 64QAM | 1 | 0 | 23.37 | 23.15 | 23.31 | 22.56 | 22.39 | **22.60** |
| | | 1 | 1 | 23.23 | 23.23 | 23.31 | 22.53 | 22.48 | 22.56 |
| | | 1 | 50 | 23.05 | **23.39** | **23.39** | 22.43 | **22.60** | 22.48 |
| | | 1 | 51 | 22.98 | 23.31 | 23.27 | 22.41 | 22.56 | 22.44 |
| | | 25 | 12 | 22.92 | 23.08 | 23.09 | 22.25 | 22.32 | 22.34 |
| | | 50 | 0 | 22.93 | 23.07 | 23.06 | 22.18 | 22.36 | 22.26 |
| | 256QAM | 1 | 0 | 20.94 | 21.03 | 21.01 | 20.38 | 20.27 | 20.33 |
| | | 1 | 1 | 20.99 | 21.01 | 21.07 | 20.40 | 20.28 | 20.32 |
| | | 1 | 50 | 20.68 | 21.06 | 21.00 | 20.22 | 20.35 | 20.17 |
| | | 1 | 51 | 20.58 | **21.12** | 20.94 | 20.15 | 20.30 | 20.07 |
| | | 25 | 12 | 20.88 | 20.97 | 21.07 | 20.32 | **20.41** | 20.34 |
| | | 50 | 0 | 20.89 | 21.06 | 21.08 | 20.25 | 20.36 | 20.33 |

## OUTPUT POWER FOR 5G NR n71 (15.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 134100 | 136100 | 138100 | 134100 | 136100 | 138100 |
| | | | | 670.5 | 680.5 | 690.5 | 670.5 | 680.5 | 690.5 |
| 15.0 | BPSK | 1 | 0 | 25.15 | 25.15 | 25.13 | 24.44 | 24.43 | 24.47 |
| | | 1 | 1 | **25.70** | 25.69 | **25.70** | 24.61 | 24.61 | 24.63 |
| | | 1 | 77 | 25.29 | 25.67 | 25.61 | 24.45 | **24.66** | 24.54 |
| | | 1 | 78 | 24.86 | 25.21 | 25.17 | 24.25 | 24.50 | 24.29 |
| | | 36 | 18 | 25.37 | 25.58 | 25.56 | 24.42 | 24.50 | 24.58 |
| | | 75 | 0 | 24.83 | 25.06 | 25.04 | 24.26 | 24.35 | 24.40 |
| | QPSK | 1 | 0 | 24.67 | 24.71 | 24.65 | 24.00 | 23.96 | 24.00 |
| | | 1 | 1 | 25.66 | **25.70** | 25.67 | **24.70** | **24.70** | **24.70** |
| | | 1 | 77 | 25.33 | **25.70** | 25.69 | 24.46 | 24.68 | 24.54 |
| | | 1 | 78 | 24.31 | 24.69 | 24.68 | 23.72 | 23.96 | 23.84 |
| | | 36 | 18 | 25.40 | 25.58 | 25.64 | 24.48 | 24.56 | 24.64 |
| | | 75 | 0 | 24.38 | 24.56 | 24.51 | 23.80 | 23.85 | 23.95 |
| | 16QAM | 1 | 0 | 23.88 | 23.83 | 23.90 | 23.24 | 23.12 | 23.13 |
| | | 1 | 1 | 24.83 | 24.83 | **24.99** | 24.16 | 24.17 | 24.19 |
| | | 1 | 77 | 24.45 | 24.82 | 24.86 | 24.01 | **24.27** | 24.07 |
| | | 1 | 78 | 23.54 | 23.89 | 23.91 | 22.89 | 23.14 | 23.04 |
| | | 36 | 18 | 24.41 | 24.61 | 24.64 | 23.80 | 23.88 | 23.94 |
| | | 75 | 0 | 23.38 | 23.53 | 23.64 | 22.81 | 22.88 | 22.84 |
| | 64QAM | 1 | 0 | 23.36 | 23.34 | 23.19 | 22.60 | 22.59 | **22.66** |
| | | 1 | 1 | 23.36 | 23.36 | 23.25 | 22.56 | 22.62 | 22.59 |
| | | 1 | 77 | 22.92 | **23.40** | 23.27 | 22.29 | 22.48 | 22.35 |
| | | 1 | 78 | 22.90 | 23.39 | 23.31 | 22.27 | 22.53 | 22.55 |
| | | 36 | 18 | 22.78 | 23.00 | 23.11 | 22.19 | 22.27 | 22.35 |
| | | 75 | 0 | 22.82 | 23.04 | 23.00 | 22.20 | 22.28 | 22.35 |
| | 256QAM | 1 | 0 | 21.07 | **21.13** | 21.07 | 20.33 | 20.35 | 20.36 |
| | | 1 | 1 | 21.05 | 21.12 | 21.08 | 20.41 | 20.33 | 20.31 |
| | | 1 | 77 | 20.74 | 21.04 | 21.09 | 20.18 | 20.42 | 20.17 |
| | | 1 | 78 | 20.70 | 21.12 | 21.09 | 20.13 | **20.46** | 20.32 |
| | | 36 | 18 | 20.84 | 20.99 | 21.09 | 20.21 | 20.28 | 20.32 |
| | | 75 | 0 | 20.84 | 20.99 | 21.06 | 20.18 | 20.28 | 20.35 |

## OUTPUT POWER FOR 5G NR n71 (20.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 1 | | | ANT 2 | | |
| | | | | 134600 | 136600 | 137600 | 134600 | 136600 | 137600 |
| | | | | 673.0 | 683.0 | 688.0 | 673.0 | 683.0 | 688.0 |
| 20.0 | BPSK | 1 | 0 | 25.17 | 25.12 | 25.12 | 24.45 | 24.40 | 24.41 |
| | | 1 | 1 | **25.70** | 25.62 | 25.63 | 24.68 | **24.70** | 24.63 |
| | | 1 | 104 | 25.28 | 25.64 | 25.58 | 24.49 | 24.52 | 24.57 |
| | | 1 | 105 | 24.83 | 25.16 | 25.10 | 24.22 | 24.35 | 24.31 |
| | | 50 | 25 | 25.32 | 25.68 | 25.56 | 24.47 | 24.58 | 24.58 |
| | | 100 | 0 | 24.83 | 25.04 | 25.14 | 24.25 | 24.31 | 24.40 |
| | QPSK | 1 | 0 | 24.67 | 24.67 | 24.63 | 23.99 | 24.00 | 24.00 |
| | | 1 | 1 | 25.67 | 25.68 | 25.59 | **24.70** | 24.61 | **24.70** |
| | | 1 | 104 | 25.36 | **25.70** | **25.70** | 24.54 | 24.62 | 24.56 |
| | | 1 | 105 | 24.37 | 24.67 | 24.68 | 23.83 | 23.89 | 23.88 |
| | | 50 | 25 | 25.41 | 25.58 | 25.58 | 24.50 | 24.57 | 24.63 |
| | | 100 | 0 | 24.31 | 24.63 | 24.57 | 23.77 | 23.87 | 23.88 |
| | 16QAM | 1 | 0 | 23.80 | 23.93 | 23.77 | 23.19 | 23.27 | 23.20 |
| | | 1 | 1 | 24.85 | 24.82 | 24.80 | **24.25** | 24.19 | 24.20 |
| | | 1 | 104 | 24.58 | **24.88** | 24.72 | 24.03 | 24.14 | 24.06 |
| | | 1 | 105 | 23.55 | 23.94 | 23.90 | 23.00 | 23.10 | 23.08 |
| | | 50 | 25 | 24.30 | 24.56 | 24.58 | 23.76 | 23.80 | 23.86 |
| | | 100 | 0 | 23.34 | 23.52 | 23.64 | 22.80 | 22.88 | 22.93 |
| | 64QAM | 1 | 0 | 23.35 | 23.33 | 23.09 | **22.62** | 22.53 | 22.52 |
| | | 1 | 1 | **23.40** | 23.28 | 23.17 | 22.52 | 22.59 | 22.60 |
| | | 1 | 104 | 23.04 | 23.24 | 23.20 | 22.46 | 22.53 | 22.36 |
| | | 1 | 105 | 22.95 | 23.28 | 23.17 | 22.30 | 22.55 | 22.58 |
| | | 50 | 25 | 22.80 | 23.08 | 23.09 | 22.25 | 22.27 | 22.25 |
| | | 100 | 0 | 22.80 | 23.09 | 22.99 | 22.20 | 22.28 | 22.24 |
| | 256QAM | 1 | 0 | 21.06 | 21.06 | 20.92 | 20.39 | 20.38 | 20.28 |
| | | 1 | 1 | 20.98 | 21.14 | 21.01 | **20.46** | 20.25 | 20.29 |
| | | 1 | 104 | 20.86 | **21.21** | **21.21** | 20.20 | 20.43 | 20.19 |
| | | 1 | 105 | 20.74 | 21.10 | 20.94 | 20.24 | 20.37 | 20.25 |
| | | 50 | 25 | 20.81 | 21.11 | 21.13 | 20.23 | 20.41 | 20.43 |
| | | 100 | 0 | 20.90 | 21.15 | 21.02 | 20.33 | 20.41 | 20.34 |

# 8.8. 5G NR n77 (FCC Part 27 3450-3550MHz)

**Test Engineer ID:** 27957 **Test Date:** 5/4/2022

## OUTPUT POWER FOR 5G NR n77 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 7 | | | ANT 8 | | | ANT 9 | | | ANT 4 | | |
| | | | | 630333 | 633332 | 636333 | 630333 | 633332 | 636333 | 630333 | 633332 | 636333 | 630333 | 633332 | 636333 |
| | | | | 3455.0 | 3500.0 | 3545.0 | 3455.0 | 3500.0 | 3545.0 | 3455.0 | 3500.0 | 3545.0 | 3455.0 | 3500.0 | 3545.0 |
| 10.0 | BPSK | 1 | 0 | 25.32 | 25.33 | 25.34 | 23.21 | 23.22 | 23.12 | 24.07 | 24.17 | 24.10 | 21.61 | 21.70 | 21.67 |
| | | 1 | 1 | 28.66 | **28.70** | **28.70** | **26.50** | **26.50** | 26.44 | 27.35 | 27.35 | **27.40** | 24.93 | **25.00** | 24.94 |
| | | 1 | 49 | 28.68 | 28.62 | 28.67 | 26.44 | 26.42 | **26.50** | **27.40** | **27.40** | 27.34 | **25.00** | 24.98 | **25.00** |
| | | 1 | 50 | 25.37 | 25.34 | 25.32 | 23.09 | 23.14 | 23.12 | 24.05 | 24.10 | 24.12 | 21.61 | 21.71 | 21.65 |
| | | 25 | 12 | **28.70** | 28.53 | 28.67 | 26.35 | 26.43 | 26.36 | 27.32 | 27.39 | 27.36 | 24.97 | 24.93 | 24.98 |
| | | 50 | 0 | 28.05 | 28.00 | 28.07 | 26.07 | 26.25 | 26.21 | 26.64 | 26.83 | 27.12 | 24.66 | 24.82 | 24.63 |
| | QPSK | 1 | 0 | 26.16 | 26.15 | 26.14 | 23.16 | 23.16 | 23.25 | 24.13 | 24.08 | 24.22 | 21.73 | 21.67 | 21.68 |
| | | 1 | 1 | 28.45 | 28.42 | 28.58 | 25.71 | 26.06 | **26.42** | 26.39 | 26.52 | 26.78 | 24.52 | 24.49 | 24.23 |
| | | 1 | 49 | 28.48 | 28.47 | 28.57 | 25.74 | 26.12 | 26.38 | 26.42 | 26.57 | 26.82 | 24.55 | 24.52 | 24.25 |
| | | 1 | 50 | 26.10 | 26.06 | 26.11 | 23.14 | 23.10 | 23.11 | 24.05 | 24.01 | 24.07 | 21.74 | 21.77 | 21.64 |
| | | 25 | 12 | 28.51 | 28.52 | **28.60** | 25.71 | 26.09 | 26.41 | 26.35 | 26.58 | **26.88** | **24.67** | 24.63 | 24.36 |
| | | 50 | 0 | 27.64 | 27.56 | 27.76 | 24.85 | 25.16 | 25.63 | 25.43 | 25.74 | 25.95 | 23.89 | 23.74 | 23.47 |
| | 16QAM | 1 | 0 | 25.22 | 25.53 | 25.56 | 23.10 | 23.35 | 23.42 | 23.92 | 24.26 | 24.37 | 21.58 | 21.97 | 21.87 |
| | | 1 | 1 | 26.80 | 26.94 | 27.32 | 24.84 | 25.42 | **25.83** | 25.46 | 26.00 | 26.21 | 23.82 | 24.01 | 23.70 |
| | | 1 | 49 | 26.83 | 27.14 | **27.37** | 24.97 | 25.52 | **25.83** | 25.43 | 26.01 | **26.22** | 23.82 | 23.97 | 23.72 |
| | | 1 | 50 | 25.25 | 25.55 | 25.45 | 22.94 | 23.40 | 23.32 | 23.83 | 24.31 | 24.26 | 21.64 | 21.99 | 21.87 |
| | | 25 | 12 | 27.03 | 26.97 | 27.14 | 24.95 | 25.14 | 25.63 | 25.51 | 25.70 | 25.99 | **24.07** | 23.86 | 23.62 |
| | | 50 | 0 | 26.13 | 25.98 | 26.02 | 24.03 | 24.29 | 24.60 | 24.66 | 24.89 | 25.11 | 23.09 | 22.92 | 22.63 |
| | 64QAM | 1 | 0 | 25.54 | 25.48 | 25.53 | 23.33 | 23.31 | 23.36 | 24.37 | 24.27 | 24.31 | 22.05 | 21.88 | 21.84 |
| | | 1 | 1 | **26.03** | 25.80 | 25.79 | 23.77 | 24.15 | 24.37 | 24.42 | 24.57 | **24.85** | 22.85 | 22.64 | 22.36 |
| | | 1 | 49 | 26.00 | 25.71 | 25.82 | 23.78 | 24.16 | **24.40** | 24.49 | 24.68 | 24.84 | **22.89** | 22.71 | 22.37 |
| | | 1 | 50 | 25.80 | 25.44 | 25.49 | 23.17 | 23.29 | 23.25 | 24.34 | 24.35 | 24.27 | 21.96 | 21.83 | 21.65 |
| | | 25 | 12 | 25.90 | 25.56 | 25.62 | 23.48 | 23.96 | 24.14 | 24.34 | 24.49 | 24.72 | 22.70 | 22.54 | 22.21 |
| | | 50 | 0 | 25.69 | 25.54 | 25.65 | 23.56 | 23.96 | 24.18 | 24.26 | 24.43 | 24.70 | 22.65 | 22.46 | 22.24 |
| | 256QAM | 1 | 0 | 24.36 | 24.16 | 24.16 | 22.17 | 22.18 | 22.13 | 22.87 | 23.05 | 23.09 | **20.84** | 20.74 | 20.63 |
| | | 1 | 1 | 24.38 | 24.10 | 24.23 | 22.04 | 22.22 | 22.00 | 22.90 | 23.11 | 23.09 | **20.84** | 20.70 | 20.54 |
| | | 1 | 49 | 24.39 | 24.23 | 24.36 | **22.30** | 22.14 | 22.02 | 23.00 | 23.14 | **23.16** | 20.81 | 20.73 | 20.63 |
| | | 1 | 50 | **24.42** | 24.16 | 24.20 | 22.16 | 22.06 | 21.97 | 22.87 | 23.10 | 23.04 | 20.73 | 20.62 | 20.54 |
| | | 25 | 12 | 24.33 | 24.13 | 24.20 | 22.19 | 22.15 | 22.17 | 22.80 | 22.95 | 23.11 | 20.71 | 20.74 | 20.57 |
| | | 50 | 0 | 24.28 | 24.07 | 24.16 | 21.99 | 22.12 | 22.03 | 22.75 | 22.94 | 23.05 | 20.77 | 20.77 | 20.58 |

## OUTPUT POWER FOR 5G NR n77 (15.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 7 | | | ANT 8 | | | ANT 9 | | | ANT 4 | | |
| | | | | 630500 | 633332 | 636166 | 630500 | 633332 | 636166 | 630500 | 633332 | 636166 | 630500 | 633332 | 636166 |
| | | | | 3457.5 | 3500.0 | 3542.5 | 3457.5 | 3500.0 | 3542.5 | 3457.5 | 3500.0 | 3542.5 | 3457.5 | 3500.0 | 3542.5 |
| 15.0 | BPSK | 1 | 0 | 25.24 | 25.67 | 25.55 | 23.21 | 23.17 | 23.13 | 24.21 | 24.07 | 24.13 | 21.61 | 21.54 | 21.53 |
| | | 1 | 1 | 28.52 | **28.70** | **28.70** | 26.47 | 26.46 | 26.43 | **27.40** | **27.40** | 27.39 | 24.96 | 24.95 | 24.95 |
| | | 1 | 49 | 28.40 | 28.64 | 28.69 | **26.50** | **26.50** | **26.50** | 27.39 | 27.39 | 27.37 | **25.00** | **25.00** | **25.00** |
| | | 1 | 50 | 25.83 | 25.67 | 25.65 | 23.18 | 23.18 | 23.14 | 24.17 | 24.03 | 24.08 | 21.60 | 21.65 | 21.60 |
| | | 25 | 12 | **28.70** | 28.68 | 28.65 | 26.35 | 26.46 | 26.42 | 27.20 | 27.28 | **27.40** | 24.95 | 24.89 | 24.84 |
| | | 50 | 0 | 28.07 | 27.97 | 28.02 | 25.84 | 26.16 | 26.32 | 26.65 | 26.68 | 27.03 | 24.67 | 24.49 | 24.44 |
| | QPSK | 1 | 0 | 26.63 | 26.49 | 26.44 | 23.26 | 23.25 | 23.16 | 24.23 | 24.01 | 24.08 | 21.64 | 21.58 | 21.70 |
| | | 1 | 1 | 28.60 | 28.51 | 28.45 | 25.54 | 25.82 | 26.27 | 26.36 | 26.31 | 26.63 | 24.27 | 24.16 | 24.10 |
| | | 1 | 49 | 28.54 | 28.50 | 28.49 | 25.55 | 25.90 | **26.33** | 26.35 | 26.42 | 26.70 | 24.24 | 24.17 | 24.08 |
| | | 1 | 50 | 26.69 | 26.51 | 26.37 | 23.21 | 23.20 | 23.14 | 24.14 | 24.04 | 24.01 | 21.68 | 21.58 | 21.67 |
| | | 25 | 12 | **28.66** | 28.63 | 28.60 | 25.60 | 25.89 | 26.29 | 26.38 | 26.43 | **26.76** | **24.46** | 24.37 | 24.25 |
| | | 50 | 0 | 27.93 | 27.74 | 27.75 | 24.68 | 24.99 | 25.39 | 25.45 | 25.51 | 25.84 | 23.62 | 23.48 | 23.41 |
| | 16QAM | 1 | 0 | 25.63 | 25.93 | 25.75 | 23.38 | 23.42 | 23.29 | 24.44 | 24.33 | 24.36 | 21.88 | 21.79 | 21.88 |
| | | 1 | 1 | 27.09 | 27.15 | 27.21 | 24.94 | 25.23 | 25.60 | 25.78 | 25.75 | 26.07 | **23.84** | 23.73 | 23.63 |
| | | 1 | 49 | 27.13 | 27.24 | 27.18 | 24.95 | 25.38 | **25.65** | 25.76 | 25.93 | **26.16** | 23.83 | 23.65 | 23.67 |
| | | 1 | 50 | 25.61 | 25.89 | 25.87 | 23.31 | 23.37 | 23.38 | 24.32 | 24.23 | 24.38 | 21.78 | 21.86 | 21.89 |
| | | 25 | 12 | **27.27** | 27.08 | 27.11 | 24.74 | 25.01 | 25.55 | 25.56 | 25.58 | 26.02 | 23.69 | 23.49 | 23.43 |
| | | 50 | 0 | 26.32 | 26.10 | 26.10 | 23.78 | 24.15 | 24.52 | 24.59 | 24.70 | 24.96 | 22.83 | 22.66 | 22.55 |
| | 64QAM | 1 | 0 | 26.12 | 25.84 | 25.80 | 23.36 | 23.29 | 23.28 | 24.36 | 24.30 | 24.18 | 21.83 | 21.79 | 21.79 |
| | | 1 | 1 | **26.17** | 25.90 | 25.78 | 23.47 | 23.78 | 24.26 | 24.36 | 24.50 | 24.74 | **22.56** | 22.49 | 22.31 |
| | | 1 | 49 | 26.09 | 25.95 | 25.87 | 23.67 | 23.98 | **24.36** | 24.30 | 24.56 | **24.81** | 22.51 | 22.47 | 22.36 |
| | | 1 | 50 | 26.04 | 25.93 | 25.72 | 23.30 | 23.39 | 23.29 | 24.39 | 24.27 | 24.26 | 21.73 | 21.87 | 21.92 |
| | | 25 | 12 | 25.96 | 25.78 | 25.59 | 23.41 | 23.65 | 24.12 | 24.20 | 24.20 | 24.62 | 22.44 | 22.31 | 22.17 |
| | | 50 | 0 | 25.87 | 25.71 | 25.57 | 23.40 | 23.67 | 24.14 | 24.11 | 24.23 | 24.57 | 22.40 | 22.25 | 22.09 |
| | 256QAM | 1 | 0 | **24.68** | 24.32 | 24.28 | 21.90 | **22.19** | 22.11 | 22.70 | 22.69 | 23.11 | 20.52 | 20.63 | 20.51 |
| | | 1 | 1 | 24.63 | 24.36 | 24.37 | 21.90 | 22.13 | 22.04 | 22.70 | 22.75 | 23.03 | 20.61 | 20.40 | 20.60 |
| | | 1 | 49 | 24.64 | 24.52 | 24.41 | 22.02 | 22.15 | 22.09 | 22.67 | 22.92 | 23.06 | **20.67** | 20.61 | 20.60 |
| | | 1 | 50 | 24.65 | 24.36 | 24.31 | 22.12 | 22.16 | 22.03 | 22.74 | 22.89 | **23.15** | 20.39 | 20.55 | 20.53 |
| | | 25 | 12 | 24.58 | 24.33 | 24.37 | 21.91 | 22.15 | 22.10 | 22.86 | 22.84 | 23.06 | 20.46 | 20.36 | 20.48 |
| | | 50 | 0 | 24.52 | 24.27 | 24.33 | 21.99 | 22.12 | 22.02 | 22.73 | 22.86 | 23.08 | 20.48 | 20.40 | 20.53 |

## OUTPUT POWER FOR 5G NR n77 (20.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 7 | | | ANT 8 | | | ANT 9 | | | ANT 4 | | |
| | | | | 630666 | 633332 | 635998 | 630666 | 633332 | 635998 | 630666 | 633332 | 635998 | 630666 | 633332 | 635998 |
| | | | | 3460.0 | 3500.0 | 3540.0 | 3460.0 | 3500.0 | 3540.0 | 3460.0 | 3500.0 | 3540.0 | 3460.0 | 3500.0 | 3540.0 |
| 20.0 | BPSK | 1 | 0 | 25.65 | 25.69 | 25.52 | 23.15 | 23.16 | 23.14 | 24.42 | 24.04 | 23.98 | 21.60 | 21.55 | 21.58 |
| | | 1 | 1 | 28.61 | 28.64 | 28.58 | **26.50** | 26.47 | **26.50** | 27.27 | 27.17 | 27.32 | 24.88 | 24.93 | **25.00** |
| | | 1 | 49 | 28.49 | 28.69 | 28.54 | 26.48 | **26.50** | 26.42 | 27.34 | 27.23 | **27.40** | **25.00** | **25.00** | 24.82 |
| | | 1 | 50 | 25.66 | 25.80 | 25.56 | 23.29 | 23.13 | 23.14 | 24.41 | 24.02 | 24.04 | 21.60 | 21.61 | 21.64 |
| | | 25 | 12 | **28.70** | **28.70** | **28.70** | 26.49 | 26.49 | 26.48 | **27.40** | **27.40** | 27.34 | 24.93 | 24.92 | 24.88 |
| | | 50 | 0 | 28.12 | 28.17 | 27.99 | 25.93 | 26.33 | 26.29 | 26.84 | 26.69 | 26.91 | 24.74 | 24.63 | 24.41 |
| | QPSK | 1 | 0 | 26.45 | 26.57 | 26.44 | 23.24 | 23.16 | 23.17 | 24.46 | 24.08 | 24.07 | 21.64 | 21.56 | 21.54 |
| | | 1 | 1 | 28.37 | 28.47 | 28.28 | 25.47 | 25.85 | 26.26 | 26.36 | 26.30 | 26.38 | 24.24 | 24.15 | 23.94 |
| | | 1 | 49 | 28.35 | 28.54 | 28.36 | 25.52 | 26.01 | 26.38 | 26.41 | 26.36 | 26.51 | 24.29 | 24.15 | 23.95 |
| | | 1 | 50 | 26.45 | 26.56 | 26.36 | 23.20 | 23.19 | 23.15 | 24.30 | 24.06 | 24.06 | 21.68 | 21.59 | 21.62 |
| | | 25 | 12 | 28.67 | **28.69** | 28.55 | 25.68 | 26.01 | **26.47** | 26.54 | 26.44 | **26.68** | **24.51** | 24.33 | 24.17 |
| | | 50 | 0 | 27.70 | 27.83 | 27.60 | 24.73 | 25.04 | 25.51 | 25.67 | 25.53 | 25.81 | 23.59 | 23.43 | 23.23 |
| | 16QAM | 1 | 0 | 25.84 | 26.00 | 25.78 | 23.51 | 23.40 | 23.40 | 24.22 | 24.30 | 24.34 | 21.84 | 21.77 | 21.54 |
| | | 1 | 1 | 27.07 | 27.11 | 26.95 | 24.89 | 25.21 | 25.66 | 25.72 | 25.61 | 25.92 | 23.70 | 23.58 | 23.35 |
| | | 1 | 49 | 27.05 | 27.16 | **27.25** | 24.95 | 25.31 | **25.73** | 25.75 | 25.72 | **25.96** | **23.80** | 23.61 | 23.43 |
| | | 1 | 50 | 25.76 | 25.95 | 25.76 | 23.40 | 23.38 | 23.37 | 24.15 | 24.23 | 24.15 | 21.77 | 21.79 | 21.83 |
| | | 25 | 12 | 27.07 | 27.13 | 26.94 | 24.81 | 25.16 | 25.58 | 25.78 | 25.65 | 25.84 | 23.67 | 23.58 | 23.32 |
| | | 50 | 0 | 26.09 | 26.13 | 26.05 | 23.93 | 24.21 | 24.67 | 24.77 | 24.71 | 24.97 | 22.75 | 22.57 | 22.37 |
| | 64QAM | 1 | 0 | 25.80 | 25.77 | 25.59 | 23.44 | 23.48 | 23.34 | 24.39 | 24.33 | 24.17 | 21.82 | 21.79 | 21.87 |
| | | 1 | 1 | 25.75 | 25.74 | 25.66 | 23.50 | 23.83 | 24.22 | 24.43 | 24.34 | 24.56 | 22.51 | 22.21 | 22.02 |
| | | 1 | 49 | 25.75 | 25.96 | 25.79 | 23.62 | 23.93 | **24.42** | 24.42 | 24.51 | **24.72** | **22.52** | 22.43 | 22.25 |
| | | 1 | 50 | 25.75 | **25.98** | 25.52 | 23.40 | 23.44 | 23.27 | 24.61 | 24.15 | 24.14 | 21.91 | 21.73 | 21.85 |
| | | 25 | 12 | 25.75 | 25.73 | 25.67 | 23.42 | 23.78 | 24.10 | 24.42 | 24.27 | 24.55 | 22.40 | 22.23 | 22.02 |
| | | 50 | 0 | 25.61 | 25.78 | 25.62 | 23.43 | 23.70 | 24.16 | 24.38 | 24.30 | 24.50 | 22.42 | 22.23 | 22.04 |
| | 256QAM | 1 | 0 | 24.23 | 24.27 | 24.10 | 21.94 | 21.95 | 22.04 | 22.86 | 22.96 | 22.93 | 20.57 | 20.61 | 20.62 |
| | | 1 | 1 | 24.21 | 24.18 | 24.03 | 21.93 | 22.05 | **22.14** | 22.72 | 22.86 | 22.84 | 20.55 | 20.54 | 20.57 |
| | | 1 | 49 | 24.30 | 24.47 | 24.21 | 21.98 | 21.93 | 21.99 | **23.14** | 22.85 | 22.95 | 20.59 | 20.57 | 20.41 |
| | | 1 | 50 | 24.17 | 24.38 | 24.32 | 21.97 | 22.00 | **22.14** | 22.97 | 22.93 | 22.81 | 20.49 | 20.59 | **20.65** |
| | | 25 | 12 | 24.36 | **24.49** | 24.34 | 22.07 | 22.09 | 22.07 | 23.00 | 22.92 | 22.92 | 20.55 | 20.50 | 20.51 |
| | | 50 | 0 | 24.34 | 24.44 | 24.29 | 22.09 | 22.10 | 22.11 | 22.99 | 22.87 | 22.87 | 20.54 | 20.48 | 20.50 |

## OUTPUT POWER FOR 5G NR n77 (30.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 7 | | | ANT 8 | | | ANT 9 | | | ANT 4 | | |
| | | | | 631000 | 633332 | 635666 | 631000 | 633332 | 635666 | 631000 | 633332 | 635666 | 631000 | 633332 | 635666 |
| | | | | 3465.0 | 3500.0 | 3535.0 | 3465.0 | 3500.0 | 3535.0 | 3465.0 | 3500.0 | 3535.0 | 3465.0 | 3500.0 | 3535.0 |
| 30.0 | BPSK | 1 | 0 | 25.69 | 25.71 | 25.66 | 23.16 | 23.21 | 23.23 | 24.37 | 24.25 | 23.96 | 21.68 | 21.59 | 21.63 |
| | | 1 | 1 | **28.70** | **28.70** | 28.68 | **26.50** | **26.50** | **26.50** | **27.40** | **27.40** | 27.27 | **25.00** | **25.00** | **25.00** |
| | | 1 | 76 | 28.64 | 28.68 | **28.70** | 26.41 | 26.48 | 26.42 | **27.40** | 27.36 | **27.40** | 24.93 | 24.91 | 24.97 |
| | | 1 | 77 | 25.60 | 25.63 | 25.56 | 23.06 | 23.00 | 23.19 | 24.17 | 24.33 | 24.03 | 21.72 | 21.63 | 21.58 |
| | | 36 | 18 | 28.66 | 28.67 | 28.53 | 26.40 | 26.40 | 26.42 | 27.30 | 27.33 | 27.33 | 24.91 | 24.93 | 24.92 |
| | | 75 | 0 | 28.16 | 28.20 | 28.05 | 26.03 | 26.30 | 26.26 | 26.87 | 26.95 | 26.80 | 24.66 | 24.50 | 24.39 |
| | QPSK | 1 | 0 | 26.38 | 26.54 | 26.44 | 23.24 | 23.20 | 23.21 | 24.44 | 24.23 | 24.16 | 21.67 | 21.73 | 21.67 |
| | | 1 | 1 | **28.69** | 28.65 | 28.49 | 25.66 | 25.78 | 26.27 | 26.48 | 26.60 | 26.35 | 24.33 | 24.13 | 24.13 |
| | | 1 | 76 | 28.62 | 28.67 | 28.58 | 25.70 | 25.97 | **26.38** | 26.55 | **26.65** | 26.45 | 24.25 | 24.17 | 24.10 |
| | | 1 | 77 | 26.55 | 26.49 | 26.44 | 23.06 | 23.04 | 23.23 | 24.32 | 24.38 | 24.03 | 21.67 | 21.56 | 21.60 |
| | | 36 | 18 | 28.68 | 28.57 | 28.58 | 25.54 | 25.82 | 26.17 | 26.52 | 26.53 | 26.56 | **24.40** | 24.20 | 24.17 |
| | | 75 | 0 | 27.77 | 27.71 | 27.70 | 24.67 | 24.92 | 25.28 | 25.67 | 25.67 | 25.62 | 23.49 | 23.29 | 23.25 |
| | 16QAM | 1 | 0 | 25.82 | 26.01 | 25.90 | 23.40 | 23.43 | 23.40 | 24.71 | 24.35 | 24.11 | 21.91 | 21.91 | 21.90 |
| | | 1 | 1 | **27.38** | 27.16 | 27.19 | 24.98 | 25.10 | 25.49 | 25.75 | 25.67 | 25.88 | **23.78** | 23.59 | 23.38 |
| | | 1 | 76 | 27.26 | 27.19 | 27.17 | 24.99 | 25.30 | **25.61** | 25.80 | **25.98** | 25.94 | 23.73 | 23.52 | 23.54 |
| | | 1 | 77 | 25.73 | 25.82 | 25.74 | 23.33 | 23.28 | 23.32 | 24.75 | 24.39 | 24.33 | 22.00 | 21.84 | 21.95 |
| | | 36 | 18 | 27.12 | 27.06 | 27.05 | 24.80 | 25.07 | 25.34 | 25.74 | 25.90 | 25.70 | 23.68 | 23.54 | 23.54 |
| | | 75 | 0 | 26.23 | 26.25 | 26.02 | 23.83 | 24.15 | 24.48 | 24.81 | 24.88 | 24.89 | 22.72 | 22.53 | 22.52 |
| | 64QAM | 1 | 0 | 25.83 | 25.97 | 25.66 | 23.33 | 23.31 | 23.40 | 24.59 | 24.64 | 24.23 | 21.93 | 21.78 | 21.79 |
| | | 1 | 1 | 26.11 | 26.22 | 25.77 | 23.42 | 23.75 | 24.24 | 24.59 | 24.65 | 24.42 | 22.54 | 22.32 | 22.35 |
| | | 1 | 76 | 25.88 | **26.23** | 25.89 | 23.65 | 24.00 | **24.39** | 24.70 | **24.81** | 24.59 | **22.56** | 22.39 | 22.31 |
| | | 1 | 77 | 25.69 | 25.92 | 25.63 | 23.17 | 23.43 | 23.26 | 24.61 | 24.50 | 24.07 | 21.77 | 21.74 | 22.06 |
| | | 36 | 18 | 25.77 | 25.80 | 25.59 | 23.42 | 23.68 | 24.06 | 24.45 | 24.50 | 24.38 | 22.36 | 22.21 | 22.11 |
| | | 75 | 0 | 25.69 | 25.74 | 25.66 | 23.37 | 23.58 | 23.97 | 24.38 | 24.46 | 24.35 | 22.30 | 22.16 | 22.09 |
| | 256QAM | 1 | 0 | 24.27 | 24.29 | 24.24 | 21.91 | 22.12 | **22.22** | 22.88 | 22.83 | 22.72 | 20.60 | 20.67 | 20.72 |
| | | 1 | 1 | 24.39 | 24.43 | 24.46 | 22.09 | 22.07 | 22.08 | 22.91 | 23.12 | 22.79 | 20.65 | 20.62 | **20.82** |
| | | 1 | 76 | 24.22 | **24.58** | 24.30 | 21.93 | 22.00 | 22.05 | 23.11 | 23.19 | 22.96 | 20.53 | 20.49 | 20.71 |
| | | 1 | 77 | 24.31 | 24.49 | 24.52 | 22.18 | 22.07 | 22.12 | 23.09 | **23.27** | 22.87 | 20.60 | 20.46 | 20.51 |
| | | 36 | 18 | 24.36 | 24.41 | 24.23 | 21.98 | 22.15 | 22.10 | 23.05 | 23.03 | 22.87 | 20.59 | 20.44 | 20.55 |
| | | 75 | 0 | 24.28 | 24.32 | 24.17 | 21.95 | 22.07 | 22.14 | 22.97 | 23.15 | 22.92 | 20.63 | 20.62 | 20.66 |

## OUTPUT POWER FOR 5G NR n77 (40.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 7 | | | ANT 8 | | | ANT 9 | | | ANT 4 | | |
| | | | | 631332 | 633332 | 635332 | 631332 | 633332 | 635332 | 631332 | 633332 | 635332 | 631332 | 633332 | 635332 |
| | | | | 3470.0 | 3500.0 | 3530.0 | 3470.0 | 3500.0 | 3530.0 | 3470.0 | 3500.0 | 3530.0 | 3470.0 | 3500.0 | 3530.0 |
| 40.0 | BPSK | 1 | 0 | 25.73 | 25.65 | 25.72 | 23.15 | 23.37 | 23.25 | 24.28 | 24.23 | 24.21 | 21.84 | 21.71 | 21.73 |
| | | 1 | 1 | 28.31 | 28.31 | 28.37 | **26.50** | **26.50** | 26.46 | 27.22 | 27.13 | 27.18 | 24.96 | 24.99 | 24.98 |
| | | 1 | 104 | 28.28 | 28.53 | 28.55 | 26.35 | 26.44 | 26.37 | 27.34 | 27.28 | **27.40** | **25.00** | 24.91 | **25.00** |
| | | 1 | 105 | 25.66 | 25.66 | 25.60 | 23.00 | 23.09 | 23.20 | 24.28 | 24.30 | 24.37 | 21.77 | 21.85 | 21.79 |
| | | 50 | 25 | **28.70** | **28.70** | **28.70** | 26.34 | 26.38 | 26.35 | **27.40** | **27.40** | 27.36 | 24.96 | **25.00** | 24.97 |
| | | 100 | 0 | 28.55 | 28.54 | 28.49 | 26.18 | 26.24 | 26.18 | 27.17 | 27.26 | 27.24 | 24.77 | 24.73 | 24.85 |
| | QPSK | 1 | 0 | 26.25 | 26.27 | 26.47 | 23.22 | 23.22 | 23.17 | 24.34 | 24.27 | 24.19 | 21.78 | 21.68 | 21.91 |
| | | 1 | 1 | **28.70** | 28.62 | 28.54 | 26.20 | 26.26 | 26.42 | 26.66 | 26.68 | 26.79 | 24.59 | 24.35 | 24.51 |
| | | 1 | 104 | 28.69 | **28.70** | 28.68 | 26.29 | 26.44 | **26.50** | 26.83 | 26.86 | **26.97** | **24.63** | 24.45 | 24.54 |
| | | 1 | 105 | 26.25 | 26.45 | 26.37 | 23.19 | 23.23 | 23.15 | 24.33 | 24.41 | 24.37 | 21.79 | 21.83 | 21.88 |
| | | 50 | 25 | 28.45 | 28.36 | 28.45 | 25.84 | 26.17 | 26.34 | 26.53 | 26.63 | 26.70 | 24.49 | 24.36 | 24.36 |
| | | 100 | 0 | 27.52 | 27.47 | 27.59 | 24.98 | 25.22 | 25.58 | 25.56 | 25.65 | 25.79 | 23.57 | 23.31 | 23.43 |
| | 16QAM | 1 | 0 | 25.97 | 25.85 | 25.98 | 23.58 | 23.41 | 23.44 | 24.65 | 24.47 | 24.57 | 22.03 | 21.93 | 22.23 |
| | | 1 | 1 | 27.27 | 26.94 | 27.06 | 25.05 | 25.20 | 25.72 | 25.63 | 25.66 | 25.71 | 23.67 | 23.33 | 23.57 |
| | | 1 | 104 | 27.13 | 27.13 | **27.32** | 25.43 | 25.39 | **25.78** | 25.71 | 25.79 | **26.05** | **23.78** | 23.62 | 23.70 |
| | | 1 | 105 | 25.97 | 26.01 | 26.00 | 23.31 | 23.32 | 23.33 | 24.58 | 24.59 | 24.55 | 22.02 | 21.75 | 22.08 |
| | | 50 | 25 | 27.06 | 27.05 | 27.16 | 25.09 | 25.43 | 25.61 | 25.78 | 25.88 | 25.92 | 23.70 | 23.49 | 23.67 |
| | | 100 | 0 | 26.11 | 26.01 | 26.07 | 24.11 | 24.40 | 24.61 | 24.65 | 24.70 | 24.87 | 22.74 | 22.42 | 22.53 |
| | 64QAM | 1 | 0 | 25.50 | 25.60 | 25.61 | 23.14 | 23.53 | 23.28 | 24.38 | 24.35 | **24.64** | 21.99 | 22.01 | 22.13 |
| | | 1 | 1 | 25.71 | 25.59 | 25.62 | 23.98 | 23.94 | 24.36 | 24.40 | 24.28 | 24.31 | 22.27 | 22.14 | 22.06 |
| | | 1 | 104 | 25.88 | 25.88 | **26.03** | 23.86 | 24.17 | **24.42** | 24.57 | 24.53 | 24.61 | **22.46** | 22.21 | 22.29 |
| | | 1 | 105 | 25.97 | 25.79 | 25.67 | 23.28 | 23.35 | 23.47 | 24.55 | 24.61 | 24.30 | 22.06 | 21.72 | 22.20 |
| | | 50 | 25 | 25.86 | 25.76 | 25.75 | 23.73 | 23.99 | 23.98 | 24.34 | 24.44 | 24.57 | 22.41 | 22.19 | 22.10 |
| | | 100 | 0 | 25.72 | 25.59 | 25.63 | 23.69 | 23.96 | 24.07 | 24.06 | 24.21 | 24.46 | 22.29 | 22.04 | 22.02 |
| | 256QAM | 1 | 0 | 24.09 | 24.10 | 24.00 | 22.19 | 22.20 | 22.24 | 22.39 | 22.51 | 23.02 | 20.81 | 20.37 | 20.44 |
| | | 1 | 1 | 24.24 | 24.14 | 23.92 | 22.19 | 22.25 | **22.28** | 22.39 | 22.62 | 22.98 | **20.85** | 20.23 | 20.36 |
| | | 1 | 104 | 24.33 | 24.39 | 24.17 | 22.15 | 22.17 | 22.23 | 22.58 | 22.88 | **23.30** | 20.68 | 20.43 | 20.67 |
| | | 1 | 105 | 24.26 | **24.49** | 24.27 | 22.06 | 22.02 | 22.10 | 22.53 | 23.06 | 23.17 | 20.82 | 20.60 | 20.73 |
| | | 50 | 25 | 24.37 | 24.30 | 24.34 | 22.06 | 22.12 | 22.05 | 22.83 | 22.93 | 23.05 | 20.63 | 20.56 | 20.68 |
| | | 100 | 0 | 24.28 | 24.16 | 24.13 | 21.98 | 22.17 | 22.09 | 22.63 | 22.75 | 23.05 | 20.73 | 20.50 | 20.59 |

## OUTPUT POWER FOR 5G NR n77 (50.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 7 | | | ANT 8 | | | ANT 9 | | | ANT 4 | | |
| | | | | 631666 | 633332 | 634998 | 631666 | 633332 | 634998 | 631666 | 633332 | 634998 | 631666 | 633332 | 634998 |
| | | | | 3475.0 | 3500.0 | 3525.0 | 3475.0 | 3500.0 | 3525.0 | 3475.0 | 3500.0 | 3525.0 | 3475.0 | 3500.0 | 3525.0 |
| 50.0 | BPSK | 1 | 0 | 25.50 | 25.52 | 25.49 | 23.34 | 23.22 | 23.17 | 24.11 | 24.17 | 23.95 | 21.67 | 21.61 | 21.56 |
| | | 1 | 1 | 28.31 | 28.43 | 28.49 | **26.50** | **26.50** | **26.50** | 27.27 | 27.34 | 27.23 | **25.00** | **25.00** | **25.00** |
| | | 1 | 131 | 28.50 | 28.52 | 28.60 | 26.27 | 26.44 | 26.23 | 27.33 | **27.40** | 27.36 | 24.84 | 24.88 | 24.70 |
| | | 1 | 132 | 25.37 | 25.30 | 25.41 | 23.13 | 23.05 | 23.03 | 24.06 | 23.99 | 23.94 | 21.49 | 21.33 | 21.41 |
| | | 64 | 32 | **28.70** | **28.70** | **28.70** | 26.32 | 26.38 | 26.34 | **27.40** | 27.38 | **27.40** | 24.91 | 24.85 | 24.75 |
| | | 128 | 0 | 28.45 | 28.46 | 28.47 | 26.17 | 26.25 | 26.18 | 27.20 | 27.19 | 27.08 | 24.65 | 24.68 | 24.61 |
| | QPSK | 1 | 0 | 26.17 | 26.19 | 26.11 | 23.25 | 23.28 | 23.12 | 24.29 | 24.22 | 24.18 | 21.57 | 21.86 | 21.63 |
| | | 1 | 1 | 28.53 | 28.49 | 28.37 | 26.30 | 26.38 | 26.33 | 26.76 | 26.71 | 26.78 | 24.69 | 24.46 | 24.32 |
| | | 1 | 131 | 28.58 | **28.61** | 28.57 | 26.33 | **26.40** | 26.31 | 26.90 | **27.00** | 26.85 | **24.75** | 24.61 | 24.45 |
| | | 1 | 132 | 25.96 | 25.95 | 25.94 | 22.98 | 23.10 | 23.00 | 24.15 | 24.11 | 23.93 | 21.64 | 21.51 | 21.38 |
| | | 64 | 32 | 28.46 | 28.40 | 28.38 | 26.11 | 26.36 | 26.35 | 26.57 | 26.74 | 26.75 | 24.64 | 24.48 | 24.27 |
| | | 128 | 0 | 27.56 | 27.45 | 27.47 | 25.15 | 25.44 | 25.65 | 25.68 | 25.81 | 25.82 | 23.67 | 23.60 | 23.41 |
| | 16QAM | 1 | 0 | 26.01 | 25.98 | 25.92 | 23.39 | 23.48 | 23.53 | 24.35 | 24.27 | 24.32 | 21.81 | 21.96 | 21.94 |
| | | 1 | 1 | 27.29 | 27.12 | 27.11 | 25.23 | 25.54 | 25.76 | 25.72 | 25.93 | 25.85 | 23.77 | 23.71 | 23.54 |
| | | 1 | 131 | 27.29 | **27.35** | 27.27 | 25.43 | **25.80** | 25.57 | **26.18** | 26.12 | 26.08 | **23.85** | **23.85** | 23.69 |
| | | 1 | 132 | 25.69 | 25.67 | 25.61 | 23.36 | 23.38 | 23.43 | 24.35 | 24.35 | 24.28 | 21.76 | 21.78 | 21.58 |
| | | 64 | 32 | 27.14 | 26.99 | 27.03 | 25.32 | 25.50 | 25.54 | 25.74 | 25.86 | 25.92 | 23.78 | 23.76 | 23.55 |
| | | 128 | 0 | 26.13 | 25.97 | 26.06 | 24.26 | 24.55 | 24.57 | 24.70 | 24.86 | 24.90 | 22.79 | 22.71 | 22.47 |
| | 64QAM | 1 | 0 | 25.82 | 25.45 | 25.68 | 23.48 | 23.14 | 23.22 | 24.49 | 24.52 | 23.92 | 21.79 | 21.90 | 21.84 |
| | | 1 | 1 | **26.08** | 25.42 | 25.81 | 24.04 | 24.20 | **24.55** | 24.42 | 24.22 | 24.53 | 22.44 | 22.51 | 21.96 |
| | | 1 | 131 | 25.80 | 25.97 | 25.95 | 24.04 | 24.54 | 24.05 | 24.58 | 24.78 | **24.85** | **22.70** | 22.38 | 22.26 |
| | | 1 | 132 | 25.64 | 25.57 | 25.46 | 23.11 | 23.25 | 23.09 | 24.27 | 24.18 | 24.12 | 21.76 | 21.67 | 21.50 |
| | | 64 | 32 | 25.72 | 25.57 | 25.79 | 23.96 | 24.23 | 24.11 | 24.40 | 24.59 | 24.58 | 22.48 | 22.47 | 22.20 |
| | | 128 | 0 | 25.69 | 25.52 | 25.55 | 23.87 | 24.16 | 24.11 | 24.26 | 24.49 | 24.47 | 22.33 | 22.32 | 22.08 |
| | 256QAM | 1 | 0 | 24.02 | 24.00 | 24.19 | 22.19 | 22.14 | 21.92 | 22.66 | 22.97 | 22.84 | **20.66** | 20.54 | 20.33 |
| | | 1 | 1 | 24.13 | 24.09 | 24.01 | 22.04 | 22.20 | **22.32** | 22.70 | 22.86 | 22.88 | 20.52 | 20.60 | 20.25 |
| | | 1 | 131 | 24.39 | 24.37 | 24.13 | 21.94 | 22.08 | 22.04 | 22.90 | 23.01 | 22.84 | 20.37 | 20.44 | 20.30 |
| | | 1 | 132 | 24.40 | 24.23 | 24.29 | 21.94 | 22.00 | 22.11 | **23.19** | 22.63 | 23.10 | 20.61 | 20.38 | 20.23 |
| | | 64 | 32 | **24.46** | 24.18 | 24.28 | 22.02 | 22.12 | 22.07 | 22.90 | 23.10 | 22.90 | 20.54 | 20.44 | 20.35 |
| | | 128 | 0 | 24.31 | 24.06 | 24.19 | 22.11 | 22.15 | 22.07 | 22.80 | 22.94 | 22.90 | 20.56 | 20.53 | 20.40 |

## OUTPUT POWER FOR 5G NR n77 (60.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 7 | | | ANT 8 | | | ANT 9 | | | ANT 4 | | |
| | | | | 632000 | 633332 | 634666 | 632000 | 633332 | 634666 | 632000 | 633332 | 634666 | 632000 | 633332 | 634666 |
| | | | | 3480.0 | 3500.0 | 3520.0 | 3480.0 | 3500.0 | 3520.0 | 3480.0 | 3500.0 | 3520.0 | 3480.0 | 3500.0 | 3520.0 |
| 60.0 | BPSK | 1 | 0 | 25.53 | 25.38 | 25.34 | 23.32 | 23.17 | 23.23 | 23.95 | 24.06 | 24.10 | 21.75 | 21.63 | 21.60 |
| | | 1 | 1 | 28.37 | 28.27 | 28.52 | **26.50** | **26.50** | **26.50** | 27.12 | 27.26 | 27.16 | 24.89 | **25.00** | **25.00** |
| | | 1 | 160 | 28.49 | 28.42 | 28.53 | 26.35 | 26.23 | 26.45 | 27.24 | 27.33 | 27.34 | 24.98 | 24.88 | 24.85 |
| | | 1 | 161 | 25.45 | 25.36 | 25.35 | 23.19 | 23.20 | 22.97 | 23.95 | 23.93 | 23.93 | 21.60 | 21.50 | 21.53 |
| | | 81 | 40 | **28.70** | **28.70** | **28.70** | 26.47 | 26.41 | 26.37 | **27.40** | **27.40** | **27.40** | **25.00** | 24.99 | 24.97 |
| | | 162 | 0 | 28.49 | 28.41 | 28.45 | 26.29 | 26.21 | 26.20 | 27.16 | 27.20 | 27.12 | 24.79 | 24.83 | 24.77 |
| | QPSK | 1 | 0 | 26.22 | 26.23 | 26.30 | 23.29 | 23.10 | 23.35 | 24.05 | 24.16 | 24.09 | 21.60 | 21.74 | 21.71 |
| | | 1 | 1 | 28.66 | 28.51 | 28.57 | 26.29 | 26.33 | 26.48 | 26.53 | 26.76 | 26.83 | 24.72 | 24.64 | 24.71 |
| | | 1 | 160 | **28.70** | 28.69 | **28.70** | 26.41 | 26.42 | **26.50** | 26.79 | 26.88 | **26.94** | **24.76** | 24.67 | 24.65 |
| | | 1 | 161 | 26.05 | 26.02 | 26.12 | 23.25 | 23.09 | 23.20 | 24.06 | 24.09 | 23.82 | 21.59 | 21.57 | 21.59 |
| | | 81 | 40 | 28.48 | 28.41 | 28.49 | 26.33 | 26.39 | 26.44 | 26.47 | 26.67 | 26.74 | 24.60 | 24.55 | 24.53 |
| | | 162 | 0 | 27.64 | 27.63 | 27.58 | 25.39 | 25.50 | 25.71 | 25.74 | 25.87 | 25.95 | 23.82 | 23.71 | 23.76 |
| | 16QAM | 1 | 0 | 25.81 | 25.86 | 25.75 | 23.31 | 23.30 | 23.27 | 24.27 | 24.26 | 24.67 | 21.62 | 21.95 | 22.09 |
| | | 1 | 1 | 27.22 | 27.07 | 27.06 | 25.48 | 25.58 | 25.89 | 25.80 | 25.84 | 25.96 | 23.97 | 23.69 | 23.74 |
| | | 1 | 160 | **27.37** | 27.26 | 27.28 | 25.63 | 25.92 | **25.94** | 25.91 | 26.14 | **26.24** | **23.99** | 23.89 | 23.93 |
| | | 1 | 161 | 25.63 | 25.53 | 25.77 | 23.44 | 23.30 | 23.31 | 24.24 | 24.09 | 24.39 | 21.72 | 21.86 | 21.80 |
| | | 81 | 40 | 26.96 | 26.98 | 26.99 | 25.55 | 25.54 | 25.68 | 25.73 | 25.92 | 25.96 | 23.85 | 23.81 | 23.70 |
| | | 162 | 0 | 26.12 | 26.05 | 26.06 | 24.54 | 24.60 | 24.72 | 24.83 | 24.95 | 25.00 | 22.84 | 22.82 | 22.77 |
| | 64QAM | 1 | 0 | 25.72 | 25.61 | 25.55 | 23.23 | 23.28 | 23.11 | 24.27 | 24.33 | 24.10 | 21.76 | 21.90 | 21.70 |
| | | 1 | 1 | 25.70 | 25.85 | 25.55 | 24.12 | 24.24 | 24.33 | 24.47 | 24.31 | 24.74 | 22.48 | 22.41 | 22.25 |
| | | 1 | 160 | 25.87 | 25.90 | **25.95** | 24.41 | **24.56** | 24.37 | 24.89 | 24.36 | **24.91** | 22.74 | **22.77** | 22.50 |
| | | 1 | 161 | 25.59 | 25.57 | 25.62 | 23.46 | 23.34 | 23.20 | 24.11 | 24.36 | 24.11 | 21.77 | 21.65 | 21.63 |
| | | 81 | 40 | 25.66 | 25.68 | 25.69 | 24.07 | 24.21 | 24.21 | 24.29 | 24.53 | 24.61 | 22.51 | 22.37 | 22.31 |
| | | 162 | 0 | 25.64 | 25.73 | 25.67 | 24.07 | 24.13 | 24.14 | 24.36 | 24.53 | 24.61 | 22.53 | 22.31 | 22.33 |
| | 256QAM | 1 | 0 | 23.86 | 23.98 | 23.90 | 22.18 | 22.17 | 22.05 | 22.38 | 22.91 | 22.74 | 20.56 | 20.67 | 20.55 |
| | | 1 | 1 | 24.10 | 23.97 | 23.98 | 22.13 | 22.08 | 22.19 | 22.66 | 22.95 | 22.95 | 20.52 | 20.56 | **20.69** |
| | | 1 | 160 | 24.45 | **24.49** | 24.40 | 22.20 | 21.96 | 22.05 | 22.80 | 22.90 | 22.90 | 20.60 | 20.32 | 20.53 |
| | | 1 | 161 | 24.48 | 24.26 | 24.29 | 22.13 | 22.06 | 22.16 | 23.03 | 22.93 | 23.00 | 20.42 | 20.38 | 20.68 |
| | | 81 | 40 | 24.30 | 24.34 | 24.16 | **22.23** | 22.17 | 22.14 | 22.84 | 22.93 | 22.97 | 20.60 | 20.61 | 20.60 |
| | | 162 | 0 | 24.29 | 24.30 | 24.29 | 22.22 | 22.17 | 22.15 | 22.92 | **23.10** | 23.05 | 20.61 | 20.64 | 20.64 |

## OUTPUT POWER FOR 5G NR n77 (70.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 7 | | | ANT 8 | | | ANT 9 | | | ANT 4 | | |
| | | | | 632333 | 633332 | 634333 | 632333 | 633332 | 634333 | 632333 | 633332 | 634333 | 632333 | 633332 | 634333 |
| | | | | 3485.0 | 3500.0 | 3515.0 | 3485.0 | 3500.0 | 3515.0 | 3485.0 | 3500.0 | 3515.0 | 3485.0 | 3500.0 | 3515.0 |
| 70.0 | BPSK | 1 | 0 | 25.42 | 25.39 | 25.25 | 23.21 | 23.08 | 23.21 | 24.00 | 24.09 | 23.92 | 21.57 | 21.54 | 21.64 |
| | | 1 | 1 | 28.62 | 28.41 | 28.50 | **26.50** | **26.50** | 26.47 | **27.40** | 27.33 | 27.38 | 24.98 | **25.00** | **25.00** |
| | | 1 | 187 | 28.51 | **28.70** | 28.68 | 26.34 | 26.28 | 26.38 | 27.21 | 27.27 | 27.24 | 24.76 | 24.98 | **25.00** |
| | | 1 | 188 | 25.16 | 25.22 | 25.27 | 23.00 | 22.79 | 22.96 | 23.84 | 23.79 | 23.97 | 21.69 | 21.47 | 21.62 |
| | | 90 | 45 | **28.70** | 28.66 | **28.70** | 26.33 | 26.28 | 26.33 | 27.34 | **27.40** | **27.40** | 24.95 | 24.99 | **25.00** |
| | | 180 | 0 | 28.39 | 28.52 | 28.50 | 26.21 | 26.13 | 26.16 | 27.20 | 27.10 | 27.14 | 24.81 | 24.77 | 24.78 |
| | QPSK | 1 | 0 | 25.84 | 25.97 | 26.04 | 23.27 | 23.14 | 23.07 | 24.01 | 24.27 | 24.13 | 21.75 | 21.77 | 21.81 |
| | | 1 | 1 | 28.60 | 28.63 | 28.63 | 26.47 | 26.41 | **26.50** | 26.85 | 26.91 | 27.01 | **25.00** | 24.93 | 24.77 |
| | | 1 | 187 | 28.56 | **28.68** | 28.66 | 26.32 | 26.23 | 26.28 | 27.05 | 27.10 | **27.29** | 24.99 | 24.96 | 24.85 |
| | | 1 | 188 | 25.84 | 25.93 | 25.86 | 23.08 | 23.00 | 23.05 | 24.02 | 24.03 | 23.93 | 21.65 | 21.70 | 21.61 |
| | | 90 | 45 | 28.32 | 28.31 | 28.37 | 26.38 | 26.29 | 26.31 | 26.71 | 26.80 | 26.68 | 24.66 | 24.73 | 24.62 |
| | | 180 | 0 | 27.38 | 27.49 | 27.50 | 25.44 | 25.46 | 25.60 | 25.95 | 25.83 | 26.03 | 23.84 | 23.83 | 23.97 |
| | 16QAM | 1 | 0 | 25.66 | 25.60 | 25.78 | 23.49 | 23.23 | 23.29 | 24.37 | 24.33 | 24.37 | 21.96 | 21.93 | 21.89 |
| | | 1 | 1 | 27.09 | 27.30 | 27.06 | 25.67 | 25.59 | 25.70 | 26.19 | 26.07 | 25.99 | 23.97 | 23.82 | 24.17 |
| | | 1 | 187 | 27.26 | **27.45** | 27.10 | **25.91** | 25.88 | 25.87 | **26.35** | 26.29 | 26.33 | 24.10 | 24.06 | **24.35** |
| | | 1 | 188 | 25.64 | 25.45 | 25.77 | 23.21 | 23.36 | 23.17 | 24.17 | 24.26 | 24.10 | 21.83 | 22.00 | 21.74 |
| | | 90 | 45 | 27.07 | 27.05 | 27.09 | 25.50 | 25.58 | 25.62 | 25.87 | 25.91 | 25.97 | 23.82 | 23.83 | 24.01 |
| | | 180 | 0 | 26.05 | 25.96 | 26.03 | 24.54 | 24.59 | 24.60 | 24.88 | 25.01 | 25.03 | 22.94 | 22.92 | 23.02 |
| | 64QAM | 1 | 0 | 25.77 | 25.43 | 25.69 | 23.35 | 23.11 | 23.22 | 24.16 | 24.48 | 24.35 | 21.90 | 22.03 | 21.94 |
| | | 1 | 1 | 25.67 | 25.59 | 25.52 | 24.19 | **24.39** | 24.25 | 24.05 | 24.49 | 24.41 | 22.55 | 22.76 | 22.39 |
| | | 1 | 187 | 25.71 | **26.00** | 25.65 | 24.23 | 24.05 | 24.09 | 24.43 | 24.90 | **25.09** | 22.79 | 22.70 | **22.89** |
| | | 1 | 188 | 25.60 | 25.46 | 25.58 | 23.18 | 23.27 | 23.29 | 23.93 | 23.92 | 23.93 | 21.86 | 21.58 | 21.99 |
| | | 90 | 45 | 25.69 | 25.75 | 25.66 | 24.04 | 24.12 | 24.08 | 24.45 | 24.44 | 24.67 | 22.54 | 22.57 | 22.59 |
| | | 180 | 0 | 25.56 | 25.52 | 25.66 | 24.12 | 24.06 | 24.07 | 24.38 | 24.56 | 24.46 | 22.46 | 22.47 | 22.55 |
| | 256QAM | 1 | 0 | 23.99 | 23.83 | 24.09 | 22.11 | **22.25** | 22.02 | 22.61 | 22.79 | 22.23 | 20.65 | 20.68 | 20.73 |
| | | 1 | 1 | 24.12 | 23.98 | 23.95 | 22.20 | 22.21 | 21.99 | 22.76 | 22.82 | 22.76 | 20.56 | 20.74 | 20.65 |
| | | 1 | 187 | 24.40 | 24.37 | **24.41** | 21.92 | 21.95 | 21.83 | 22.43 | 22.86 | 23.03 | 20.57 | 20.55 | 20.70 |
| | | 1 | 188 | **24.41** | 24.25 | 24.30 | 22.00 | 22.03 | 21.84 | 22.74 | 23.00 | **23.08** | 20.58 | 20.55 | 20.56 |
| | | 90 | 45 | 24.26 | 24.25 | 24.28 | 22.16 | 22.05 | 22.04 | 22.91 | 22.96 | 22.99 | 20.56 | 20.59 | 20.74 |
| | | 180 | 0 | 24.05 | 24.11 | 24.19 | 22.16 | 22.04 | 22.03 | 22.98 | 23.02 | 23.00 | 20.61 | 20.60 | **20.78** |

## OUTPUT POWER FOR 5G NR n77 (80.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 7 | | | ANT 8 | | | ANT 9 | | | ANT 4 | | |
| | | | | 632666 | 633332 | 633998 | 632666 | 633332 | 633998 | 632666 | 633332 | 633998 | 632666 | 633332 | 633998 |
| | | | | 3490.0 | 3500.0 | 3510.0 | 3490.0 | 3500.0 | 3510.0 | 3490.0 | 3500.0 | 3510.0 | 3490.0 | 3500.0 | 3510.0 |
| 80.0 | BPSK | 1 | 0 | 25.31 | 25.21 | 25.20 | 23.36 | 23.04 | 23.11 | 24.03 | 24.08 | 23.99 | 21.53 | 21.74 | 21.52 |
| | | 1 | 1 | 28.49 | 28.30 | 28.38 | 26.40 | **26.50** | **26.50** | 27.19 | 27.38 | 27.36 | 24.85 | 24.91 | **25.00** |
| | | 1 | 215 | 28.39 | 28.64 | **28.70** | 26.44 | 26.01 | 26.09 | 27.36 | **27.40** | 27.29 | 24.77 | **25.00** | 24.97 |
| | | 1 | 216 | 25.43 | 25.25 | 25.28 | 23.19 | 22.90 | 23.01 | 23.86 | 23.94 | 23.97 | 21.60 | 21.49 | 21.56 |
| | | 108 | 54 | **28.70** | **28.70** | 28.65 | **26.50** | 26.29 | 26.38 | **27.40** | 27.38 | **27.40** | **25.00** | 24.95 | 24.95 |
| | | 216 | 0 | 28.45 | 28.40 | 28.37 | 26.30 | 26.11 | 26.13 | 27.08 | 27.05 | 27.24 | 24.73 | 24.76 | 24.73 |
| | QPSK | 1 | 0 | 25.86 | 25.94 | 25.88 | 23.32 | 23.07 | 23.27 | 24.16 | 23.87 | 24.01 | 21.70 | 21.65 | 21.65 |
| | | 1 | 1 | **28.61** | 28.39 | 28.39 | 26.43 | 26.33 | 26.29 | 26.75 | 26.74 | 26.77 | 24.84 | 24.66 | 24.71 |
| | | 1 | 215 | 28.54 | 28.45 | 28.57 | 26.37 | 26.17 | **26.46** | 27.00 | **27.10** | 27.01 | 24.76 | 24.77 | **24.85** |
| | | 1 | 216 | 25.94 | 25.97 | 25.96 | 23.14 | 23.02 | 23.07 | 24.01 | 24.05 | 23.99 | 21.57 | 21.57 | 21.71 |
| | | 108 | 54 | 28.30 | 28.40 | 28.26 | 26.42 | 26.31 | 26.33 | 26.71 | 26.78 | 26.77 | 24.62 | 24.58 | 24.68 |
| | | 216 | 0 | 27.50 | 27.58 | 27.50 | 25.64 | 25.46 | 25.66 | 26.00 | 25.96 | 26.07 | 23.92 | 23.85 | 23.89 |
| | 16QAM | 1 | 0 | 25.62 | 25.49 | 25.57 | 23.49 | 23.23 | 23.18 | 24.36 | 24.08 | 24.54 | 21.89 | 21.93 | 21.76 |
| | | 1 | 1 | 27.30 | 27.02 | 26.91 | 25.59 | 25.48 | 25.77 | 25.86 | 26.13 | 26.09 | 24.18 | 23.83 | 24.05 |
| | | 1 | 215 | 27.26 | **27.34** | 27.21 | **25.96** | 25.64 | 25.81 | **26.49** | 26.29 | 26.27 | 24.08 | 24.01 | **24.30** |
| | | 1 | 216 | 25.50 | 25.74 | 25.70 | 23.48 | 23.22 | 23.17 | 24.04 | 23.97 | 24.23 | 21.92 | 21.71 | 21.79 |
| | | 108 | 54 | 26.85 | 26.90 | 26.95 | 25.68 | 25.50 | 25.65 | 25.97 | 25.93 | 26.07 | 23.83 | 23.81 | 23.79 |
| | | 216 | 0 | 26.03 | 26.06 | 26.00 | 24.74 | 24.50 | 24.61 | 25.05 | 25.00 | 25.13 | 23.02 | 22.91 | 22.86 |
| | 64QAM | 1 | 0 | **25.89** | 25.69 | 25.48 | 23.73 | 23.30 | 23.37 | 24.00 | 23.98 | 24.30 | 22.08 | 21.85 | 21.74 |
| | | 1 | 1 | 25.61 | 25.44 | 25.70 | 23.86 | 24.25 | 24.25 | 24.56 | 24.48 | 24.83 | 22.74 | 22.65 | 22.67 |
| | | 1 | 215 | 25.80 | 25.67 | 25.85 | **24.51** | 23.97 | 24.23 | **24.96** | 24.54 | 24.85 | **22.85** | 22.79 | 22.56 |
| | | 1 | 216 | 25.45 | 25.25 | 25.79 | 23.43 | 23.31 | 22.91 | 23.93 | 24.04 | 23.99 | 21.99 | 21.73 | 21.65 |
| | | 108 | 54 | 25.51 | 25.58 | 25.56 | 24.31 | 24.12 | 24.14 | 24.51 | 24.44 | 24.63 | 22.51 | 22.37 | 22.39 |
| | | 216 | 0 | 25.53 | 25.50 | 25.59 | 24.23 | 24.02 | 24.05 | 24.59 | 24.55 | 24.68 | 22.59 | 22.55 | 22.53 |
| | 256QAM | 1 | 0 | 24.22 | 23.81 | 23.85 | 22.25 | 21.94 | **22.32** | 22.82 | 22.67 | 23.20 | 20.47 | **20.80** | 20.75 |
| | | 1 | 1 | **24.44** | 23.74 | 24.10 | 22.20 | 22.12 | 21.83 | 22.95 | 22.94 | **23.23** | 20.44 | 20.77 | 20.72 |
| | | 1 | 215 | 24.34 | 24.25 | 24.39 | 22.09 | 21.52 | 21.98 | 22.92 | 22.95 | 22.90 | 20.51 | 20.61 | 20.41 |
| | | 1 | 216 | 24.35 | 24.07 | 24.16 | 21.96 | 21.79 | 21.75 | 22.94 | 23.07 | 22.91 | 20.48 | 20.44 | 20.66 |
| | | 108 | 54 | 24.11 | 24.19 | 24.26 | 22.24 | 21.98 | 22.04 | 23.00 | 22.91 | 23.04 | 20.55 | 20.62 | 20.67 |
| | | 216 | 0 | 24.06 | 24.17 | 24.24 | 22.26 | 22.02 | 22.10 | 22.99 | 22.86 | 23.03 | 20.63 | 20.69 | 20.67 |

## OUTPUT POWER FOR 5G NR n77 (90.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 7 | | | ANT 8 | | | ANT 9 | | | ANT 4 | | |
| | | | | 633000 | 633332 | 633666 | 633000 | 633332 | 633666 | 633000 | 633332 | 633666 | 633000 | 633332 | 633666 |
| | | | | 3495.0 | 3500.0 | 3505.0 | 3495.0 | 3500.0 | 3505.0 | 3495.0 | 3500.0 | 3505.0 | 3495.0 | 3500.0 | 3505.0 |
| 90.0 | BPSK | 1 | 0 | 25.28 | 25.44 | 25.26 | 23.18 | 23.20 | 23.22 | 24.08 | 24.03 | 24.02 | 21.50 | 21.48 | 21.71 |
| | | 1 | 1 | 28.35 | 28.30 | 28.14 | 26.30 | 26.45 | 26.20 | 27.26 | 27.18 | **27.40** | **25.00** | 24.71 | 24.97 |
| | | 1 | 243 | 28.46 | 28.56 | 28.58 | 26.19 | **26.50** | **26.50** | 27.39 | 27.30 | 27.33 | 24.95 | **25.00** | **25.00** |
| | | 1 | 244 | 25.47 | 25.45 | 25.46 | 22.98 | 23.06 | 23.00 | 23.85 | 23.94 | 23.89 | 21.51 | 21.58 | 21.71 |
| | | 120 | 60 | **28.70** | **28.70** | **28.70** | 26.33 | 26.36 | 26.27 | **27.40** | **27.40** | 27.30 | 24.90 | 24.87 | 24.98 |
| | | 243 | 0 | 28.43 | 28.47 | 28.33 | 26.16 | 26.19 | 26.13 | 27.10 | 27.09 | 27.02 | 24.63 | 24.63 | 24.80 |
| | QPSK | 1 | 0 | 25.94 | 26.04 | 25.90 | 23.15 | 23.27 | 22.99 | 23.95 | 24.03 | 24.00 | 21.64 | 21.58 | 21.68 |
| | | 1 | 1 | 28.47 | 28.64 | 28.28 | 26.29 | 26.46 | 26.18 | 26.61 | 26.69 | 26.86 | 24.71 | 24.68 | 24.84 |
| | | 1 | 243 | 28.52 | **28.70** | 28.46 | **26.50** | 26.40 | 26.24 | **27.16** | 27.00 | 27.02 | 24.70 | 24.73 | **24.90** |
| | | 1 | 244 | 25.89 | 25.95 | 25.79 | 23.16 | 23.14 | 23.10 | 23.93 | 24.11 | 24.05 | 21.67 | 21.69 | 21.71 |
| | | 120 | 60 | 28.34 | 28.39 | 28.30 | 26.33 | 26.45 | 26.28 | 26.69 | 26.71 | 26.72 | 24.59 | 24.66 | 24.61 |
| | | 243 | 0 | 27.46 | 27.47 | 27.46 | 25.46 | 25.51 | 25.45 | 25.93 | 25.94 | 25.94 | 23.76 | 23.78 | 23.91 |
| | 16QAM | 1 | 0 | 25.55 | 25.84 | 25.69 | 23.41 | 23.56 | 23.26 | 24.08 | 24.32 | 23.54 | 21.60 | 21.52 | 21.86 |
| | | 1 | 1 | 27.11 | 26.94 | 27.11 | 25.56 | 25.46 | 25.72 | 26.05 | 25.84 | 25.81 | 23.81 | 23.70 | 24.10 |
| | | 1 | 243 | 27.19 | **27.51** | 27.37 | 25.92 | **25.93** | 25.74 | **26.22** | 26.04 | 25.81 | 23.95 | **24.20** | 24.18 |
| | | 1 | 244 | 25.56 | 25.71 | 25.91 | 23.37 | 23.38 | 23.06 | 24.01 | 24.44 | 23.82 | 21.57 | 21.64 | 21.65 |
| | | 120 | 60 | 26.95 | 27.04 | 27.03 | 25.53 | 25.59 | 25.53 | 25.89 | 25.93 | 26.00 | 23.72 | 23.73 | 23.92 |
| | | 243 | 0 | 25.96 | 26.09 | 26.04 | 24.49 | 24.63 | 24.55 | 25.04 | 25.06 | 25.07 | 22.79 | 22.84 | 23.00 |
| | 64QAM | 1 | 0 | 25.44 | 25.40 | 25.70 | 23.20 | 23.21 | 23.12 | 24.34 | 24.28 | 24.25 | 21.89 | 21.89 | 21.91 |
| | | 1 | 1 | 25.45 | 25.84 | 25.24 | 24.09 | 24.09 | 24.13 | 24.45 | 24.74 | 24.75 | 22.32 | 22.18 | 22.45 |
| | | 1 | 243 | 25.66 | **26.03** | **26.03** | 24.09 | 24.21 | **24.30** | 24.79 | 24.99 | **25.07** | 22.85 | 22.63 | **23.14** |
| | | 1 | 244 | 25.34 | 25.84 | 25.27 | 23.28 | 23.32 | 23.11 | 24.10 | 23.94 | 24.07 | 21.66 | 21.43 | 21.86 |
| | | 120 | 60 | 25.58 | 25.71 | 25.75 | 24.09 | 24.20 | 24.09 | 24.44 | 24.50 | 24.42 | 22.35 | 22.36 | 22.49 |
| | | 243 | 0 | 25.65 | 25.57 | 25.50 | 24.03 | 24.17 | 23.95 | 24.58 | 24.63 | 24.50 | 22.42 | 22.41 | 22.51 |
| | 256QAM | 1 | 0 | 23.64 | 23.62 | 23.57 | 22.02 | **22.32** | 22.23 | 22.81 | 22.92 | 22.72 | 20.58 | 20.41 | 20.76 |
| | | 1 | 1 | 23.95 | 23.63 | 23.76 | 22.05 | 22.25 | 22.12 | **23.06** | 23.05 | 22.61 | 20.42 | 20.55 | **20.87** |
| | | 1 | 243 | 24.34 | 24.27 | **24.37** | 22.23 | 21.79 | 22.16 | 22.73 | 22.79 | 22.98 | 20.55 | 20.45 | 20.64 |
| | | 1 | 244 | 24.29 | 24.02 | 24.16 | 21.92 | 21.69 | 22.03 | 22.82 | 23.05 | 22.83 | 20.50 | 20.46 | 20.48 |
| | | 120 | 60 | 24.08 | 24.18 | 24.14 | 22.03 | 22.12 | 22.00 | 22.94 | 22.98 | 22.74 | 20.48 | 20.57 | 20.80 |
| | | 243 | 0 | 24.15 | 24.26 | 24.02 | 22.01 | 22.13 | 22.02 | 22.93 | 22.96 | 22.69 | 20.54 | 20.55 | 20.74 |

## OUTPUT POWER FOR 5G NR n77 (100.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 7 | | | ANT 8 | | | ANT 9 | | | ANT 4 | | |
| | | | | N/A | 633332 | N/A | N/A | 633332 | N/A | N/A | 633332 | N/A | N/A | 633332 | N/A |
| | | | | N/A | 3500.0 | N/A | N/A | 3500.0 | N/A | N/A | 3500.0 | N/A | N/A | 3500.0 | N/A |
| 100.0 | BPSK | 1 | 0 | | 25.43 | | | 22.79 | | | 23.87 | | | 21.54 | |
| | | 1 | 1 | | 28.29 | | | 26.31 | | | 27.05 | | | **25.00** | |
| | | 1 | 271 | | 28.60 | | | **26.50** | | | 27.20 | | | 24.98 | |
| | | 1 | 272 | | 25.54 | | | 22.95 | | | 24.07 | | | 21.47 | |
| | | 135 | 67 | | **28.70** | | | 26.25 | | | **27.40** | | | 24.99 | |
| | | 270 | 0 | | 28.40 | | | 26.06 | | | 27.00 | | | 24.77 | |
| | QPSK | 1 | 0 | | 26.13 | | | 23.14 | | | 24.04 | | | 21.77 | |
| | | 1 | 1 | | 28.49 | | | 26.25 | | | 26.28 | | | 24.93 | |
| | | 1 | 271 | | **28.65** | | | **26.37** | | | **26.57** | | | **24.96** | |
| | | 1 | 272 | | 26.21 | | | 22.97 | | | 24.52 | | | 21.70 | |
| | | 135 | 67 | | 28.48 | | | 26.32 | | | 26.22 | | | 24.73 | |
| | | 270 | 0 | | 27.54 | | | 25.40 | | | 25.46 | | | 23.83 | |
| | 16QAM | 1 | 0 | | 25.38 | | | 22.90 | | | 24.11 | | | 21.93 | |
| | | 1 | 1 | | 26.51 | | | 25.07 | | | 24.89 | | | 23.82 | |
| | | 1 | 271 | | **27.09** | | | 25.39 | | | **25.25** | | | **24.06** | |
| | | 1 | 272 | | 25.34 | | | 22.98 | | | 24.15 | | | 22.00 | |
| | | 135 | 67 | | 27.02 | | | **25.51** | | | 25.20 | | | 23.83 | |
| | | 270 | 0 | | 26.01 | | | 24.49 | | | 24.45 | | | 22.92 | |
| | 64QAM | 1 | 0 | | 25.18 | | | 23.19 | | | 23.91 | | | 22.03 | |
| | | 1 | 1 | | 25.55 | | | 23.93 | | | 23.82 | | | **22.76** | |
| | | 1 | 271 | | **25.91** | | | **24.10** | | | 24.33 | | | 22.70 | |
| | | 1 | 272 | | 25.67 | | | 23.41 | | | **24.53** | | | 21.58 | |
| | | 135 | 67 | | 25.67 | | | 24.07 | | | 23.79 | | | 22.57 | |
| | | 270 | 0 | | 25.63 | | | 23.95 | | | 24.03 | | | 22.47 | |
| | 256QAM | 1 | 0 | | 23.84 | | | **22.23** | | | 22.56 | | | 20.68 | |
| | | 1 | 1 | | 23.96 | | | 22.02 | | | 22.06 | | | **20.74** | |
| | | 1 | 271 | | **24.49** | | | 22.03 | | | 22.77 | | | 20.55 | |
| | | 1 | 272 | | 24.35 | | | 22.11 | | | **22.78** | | | 20.55 | |
| | | 135 | 67 | | 24.20 | | | 21.99 | | | 22.39 | | | 20.59 | |
| | | 270 | 0 | | 24.27 | | | 22.00 | | | 22.55 | | | 20.60 | |

# 8.9. 5G NR n77 (FCC Part 27 3700-3980MHz)

**Test Engineer ID:** 28498 **Test Date:** 5/4/2022

## OUTPUT POWER FOR 5G NR n77 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 7 | | | ANT 8 | | | ANT 9 | | | ANT 4 | | |
| | | | | 647000 | 656000 | 665000 | 647000 | 656000 | 665000 | 647000 | 656000 | 665000 | 647000 | 656000 | 665000 |
| | | | | 3705.0 | 3840.0 | 3975.0 | 3705.0 | 3840.0 | 3975.0 | 3705.0 | 3840.0 | 3975.0 | 3705.0 | 3840.0 | 3975.0 |
| 10.0 | BPSK | 1 | 0 | 25.34 | 25.27 | 25.32 | 22.91 | 23.07 | 23.06 | 24.00 | 24.04 | 24.00 | 21.65 | 21.61 | 21.60 |
| | | 1 | 1 | 28.62 | 28.56 | 28.67 | 26.28 | 26.45 | 26.42 | 27.28 | **27.40** | 27.38 | **25.00** | **25.00** | 24.97 |
| | | 1 | 22 | 28.57 | 28.69 | 28.66 | 26.35 | 26.38 | 26.48 | 27.22 | 27.35 | **27.40** | 24.93 | 24.90 | 24.91 |
| | | 1 | 23 | 25.26 | 25.30 | 25.20 | 22.98 | 23.11 | 23.05 | 24.02 | 24.10 | 24.01 | 21.54 | 21.68 | 21.53 |
| | | 12 | 6 | **28.70** | 28.61 | 28.56 | **26.50** | 26.39 | 26.46 | **27.40** | 27.32 | 27.28 | 24.87 | 24.90 | 24.88 |
| | | 24 | 0 | 28.40 | 28.34 | 28.42 | 26.26 | 26.17 | 26.19 | 27.12 | 27.13 | 27.06 | 24.60 | 24.57 | 24.66 |
| | QPSK | 1 | 0 | 25.28 | 25.33 | 25.37 | 23.21 | 23.22 | 23.12 | 24.03 | 23.96 | 24.15 | 21.68 | 21.67 | 21.66 |
| | | 1 | 1 | 28.50 | **28.70** | 28.66 | 26.43 | 26.43 | **26.50** | 26.91 | **27.33** | 27.23 | 24.98 | 24.86 | **25.00** |
| | | 1 | 22 | 28.45 | **28.70** | **28.70** | 26.45 | 26.36 | 26.48 | 26.73 | 27.26 | 27.14 | 24.86 | 24.90 | 24.90 |
| | | 1 | 23 | 25.19 | 25.31 | 25.35 | 23.20 | 23.00 | 23.09 | 23.89 | 24.11 | 24.02 | 21.56 | 21.60 | 21.66 |
| | | 12 | 6 | 28.42 | 28.63 | 28.59 | 26.39 | 26.34 | 26.36 | 26.92 | **27.33** | 27.18 | 24.94 | 24.81 | 24.82 |
| | | 24 | 0 | 27.61 | 27.85 | 27.88 | 25.74 | 25.65 | 25.68 | 26.13 | 26.60 | 26.51 | 24.18 | 24.12 | 24.12 |
| | 16QAM | 1 | 0 | 25.08 | 25.50 | 25.57 | 23.18 | 23.19 | 23.26 | 23.82 | 24.12 | 24.10 | 21.48 | 21.65 | 21.76 |
| | | 1 | 1 | 27.43 | **28.20** | 28.11 | 25.66 | 25.78 | **25.98** | 25.97 | **26.79** | 26.65 | 24.11 | 24.33 | 24.35 |
| | | 1 | 22 | 27.38 | 28.12 | 28.13 | 25.47 | 25.74 | 25.84 | 25.93 | 26.78 | 26.46 | 23.89 | **24.49** | 24.49 |
| | | 1 | 23 | 25.22 | 25.48 | 25.63 | 23.05 | 23.12 | 23.34 | 23.67 | 24.33 | 24.16 | 21.42 | 21.60 | 21.82 |
| | | 12 | 6 | 27.64 | 27.92 | 27.77 | 25.75 | 25.58 | 25.66 | 26.18 | 26.50 | 26.60 | 24.10 | 24.10 | 24.18 |
| | | 24 | 0 | 26.83 | 26.81 | 26.78 | 24.56 | 24.60 | 24.58 | 25.39 | 25.52 | 25.63 | 23.13 | 23.04 | 23.20 |
| | 64QAM | 1 | 0 | 25.43 | 25.42 | 25.68 | 23.26 | 23.23 | 23.34 | 24.23 | 24.03 | 24.26 | 21.80 | 21.69 | 21.98 |
| | | 1 | 1 | 26.51 | **26.54** | 26.46 | **24.33** | 24.32 | 24.14 | 25.10 | **25.24** | 25.23 | 22.91 | 22.64 | 22.79 |
| | | 1 | 22 | 26.35 | 26.35 | 26.43 | 24.28 | 24.16 | 24.17 | 25.11 | **25.24** | 25.20 | 22.79 | **22.95** | 22.85 |
| | | 1 | 23 | 25.62 | 25.52 | 25.52 | 23.18 | 23.12 | 23.19 | 24.16 | 24.20 | 24.22 | 21.63 | 21.68 | 21.96 |
| | | 12 | 6 | 26.29 | 26.27 | 26.41 | 24.11 | 23.99 | 23.97 | 24.79 | 25.04 | 24.98 | 22.61 | 22.61 | 22.64 |
| | | 24 | 0 | 26.41 | 26.32 | 26.35 | 24.12 | 24.11 | 24.12 | 24.89 | 24.93 | 25.00 | 22.62 | 22.57 | 22.65 |
| | 256QAM | 1 | 0 | 24.32 | 24.25 | 24.36 | 21.89 | 21.83 | 21.96 | 22.92 | 22.90 | 22.99 | 20.60 | 20.65 | **20.71** |
| | | 1 | 1 | 24.35 | 24.24 | 24.25 | 21.90 | 21.91 | 21.92 | **23.11** | 22.69 | 22.93 | 20.63 | 20.52 | 20.58 |
| | | 1 | 22 | **24.38** | 24.08 | 24.21 | 22.03 | **22.08** | 21.97 | 23.07 | 22.90 | 22.76 | 20.43 | 20.50 | 20.64 |
| | | 1 | 23 | 24.30 | 24.36 | 24.28 | 21.74 | 21.84 | 21.89 | 22.96 | 22.97 | 22.86 | 20.50 | 20.62 | 20.53 |
| | | 12 | 6 | 24.33 | 24.23 | 24.26 | 21.82 | **22.08** | 22.05 | 22.91 | 23.04 | 22.97 | 20.57 | 20.62 | 20.70 |
| | | 24 | 0 | 24.21 | 24.13 | 24.25 | 21.79 | 21.95 | 21.88 | 22.92 | 22.96 | 22.98 | 20.60 | 20.63 | **20.71** |

## OUTPUT POWER FOR 5G NR n77 (15.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 7 | | | ANT 8 | | | ANT 9 | | | ANT 4 | | |
| | | | | 647033 | 656000 | 664833 | 647033 | 656000 | 664833 | 647033 | 656000 | 664833 | 647033 | 656000 | 664833 |
| | | | | 3707.5 | 3840.0 | 3972.5 | 3707.5 | 3840.0 | 3972.5 | 3707.5 | 3840.0 | 3972.5 | 3707.5 | 3840.0 | 3972.5 |
| 15.0 | BPSK | 1 | 0 | 25.29 | 25.25 | 25.27 | 22.67 | 25.91 | 25.94 | 24.03 | 23.83 | 23.83 | 21.64 | 21.48 | 21.60 |
| | | 1 | 1 | **28.70** | 28.50 | **28.70** | 26.04 | 26.46 | **26.47** | **27.40** | 27.33 | 27.33 | **25.00** | 24.76 | 24.95 |
| | | 1 | 36 | 28.59 | 28.63 | 28.62 | 26.00 | 26.43 | 26.45 | 27.37 | **27.40** | **27.40** | 24.88 | 24.95 | 24.98 |
| | | 1 | 37 | 25.28 | 25.24 | 25.26 | 22.73 | 25.82 | 25.88 | 23.86 | 23.97 | 23.97 | 21.50 | 21.51 | 21.75 |
| | | 18 | 9 | 28.55 | 28.47 | 28.56 | 25.96 | 26.38 | 26.34 | 27.25 | 27.27 | 27.27 | 24.84 | 24.81 | 24.93 |
| | | 36 | 0 | 28.43 | 28.39 | 28.43 | 25.89 | 25.92 | 25.83 | 27.05 | 27.13 | 27.13 | 24.69 | 24.64 | 24.74 |
| | QPSK | 1 | 0 | 25.38 | 25.28 | 25.34 | 22.86 | 25.50 | 25.30 | 24.11 | 23.92 | 23.92 | 21.69 | 21.56 | 21.60 |
| | | 1 | 1 | 28.35 | 28.58 | 28.65 | 26.12 | **26.50** | 26.40 | 26.71 | 26.97 | 26.97 | **25.00** | 24.87 | **25.00** |
| | | 1 | 36 | 28.31 | **28.70** | 28.68 | 26.46 | 26.45 | **26.50** | 26.65 | 26.96 | 26.96 | 24.90 | **25.00** | 24.99 |
| | | 1 | 37 | 25.25 | 25.25 | 25.27 | 22.75 | 25.36 | 25.35 | 23.87 | 24.02 | 24.02 | 21.58 | 21.52 | 21.59 |
| | | 18 | 9 | 28.45 | 28.54 | 28.59 | **26.50** | 26.40 | 26.40 | 26.86 | **27.08** | **27.08** | 24.90 | 24.83 | 24.95 |
| | | 36 | 0 | 27.49 | 27.81 | 27.90 | 25.82 | 25.35 | 25.35 | 25.99 | 26.37 | 26.37 | 24.11 | 24.17 | 24.21 |
| | 16QAM | 1 | 0 | 25.54 | 25.35 | 25.27 | 23.45 | 24.81 | 24.48 | 24.35 | 24.19 | 24.19 | 21.83 | 21.80 | 21.79 |
| | | 1 | 1 | 27.78 | 28.12 | 28.13 | **26.08** | 25.54 | 25.67 | 26.21 | 26.43 | 26.43 | 24.49 | 24.44 | 24.36 |
| | | 1 | 36 | 27.73 | **28.15** | 28.13 | 26.05 | 25.53 | 25.68 | 26.10 | **26.49** | **26.49** | 24.31 | 24.46 | **24.61** |
| | | 1 | 37 | 25.40 | 25.38 | 25.60 | 23.33 | 24.56 | 24.56 | 24.27 | 24.25 | 24.25 | 21.78 | 21.81 | 21.63 |
| | | 18 | 9 | 27.77 | 27.85 | 27.83 | 25.75 | 25.29 | 25.43 | 26.08 | 26.32 | 26.32 | 24.14 | 24.19 | 24.06 |
| | | 36 | 0 | 26.69 | 26.76 | 26.81 | 24.60 | 24.30 | 24.34 | 25.20 | 25.58 | 25.58 | 23.05 | 23.01 | 23.09 |
| | 64QAM | 1 | 0 | 25.54 | 25.49 | 25.35 | 23.51 | 24.12 | 24.11 | 24.28 | 24.20 | 24.20 | 21.76 | 21.85 | 21.99 |
| | | 1 | 1 | 26.43 | 26.54 | 26.53 | **24.36** | 24.05 | 24.01 | 24.70 | **25.19** | **25.19** | **23.04** | 22.81 | 22.87 |
| | | 1 | 36 | 26.42 | 26.22 | **26.60** | 24.34 | 23.92 | 23.95 | 24.94 | 25.16 | 25.16 | 22.71 | 22.76 | 22.95 |
| | | 1 | 37 | 25.25 | 25.25 | 25.34 | 23.43 | 24.09 | 24.09 | 24.10 | 23.99 | 23.99 | 21.80 | 21.69 | 22.02 |
| | | 18 | 9 | 26.21 | 26.22 | 26.23 | 24.20 | 23.79 | 23.80 | 24.77 | 25.00 | 25.00 | 22.58 | 22.47 | 22.69 |
| | | 36 | 0 | 26.23 | 26.31 | 26.13 | 24.19 | 23.78 | 23.75 | 24.80 | 24.91 | 24.91 | 22.52 | 22.50 | 22.55 |
| | 256QAM | 1 | 0 | 24.13 | 24.08 | 23.84 | **22.26** | 21.78 | 21.77 | 22.94 | 22.96 | 22.96 | 20.30 | 20.57 | 20.52 |
| | | 1 | 1 | 24.40 | 24.00 | 24.46 | 22.12 | 21.70 | 21.76 | 22.85 | 22.54 | 22.54 | 20.60 | 20.29 | 20.55 |
| | | 1 | 36 | 24.06 | 24.03 | **24.49** | 22.20 | 21.74 | 21.75 | 22.81 | 22.99 | 22.99 | 20.47 | 20.43 | 20.43 |
| | | 1 | 37 | 24.06 | 24.27 | 24.26 | 22.19 | 21.69 | 21.78 | **23.01** | 22.46 | 22.46 | 20.63 | 20.69 | 20.68 |
| | | 18 | 9 | 24.16 | 24.06 | 24.23 | 22.12 | 21.68 | 21.73 | 22.87 | 22.86 | 22.86 | 20.48 | 20.49 | **20.74** |
| | | 36 | 0 | 24.24 | 24.19 | 24.23 | 22.18 | 21.67 | 21.76 | 22.86 | 22.83 | 22.83 | 20.55 | 20.48 | 20.69 |

## OUTPUT POWER FOR 5G NR n77 (20.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 7 | | | ANT 8 | | | ANT 9 | | | ANT 4 | | |
| | | | | 647333 | 656000 | 664666 | 647333 | 656000 | 664666 | 647333 | 656000 | 664666 | 647333 | 656000 | 664666 |
| | | | | 3710.0 | 3840.0 | 3970.0 | 3710.0 | 3840.0 | 3970.0 | 3710.0 | 3840.0 | 3970.0 | 3710.0 | 3840.0 | 3970.0 |
| 20.0 | BPSK | 1 | 0 | 25.32 | 25.13 | 25.22 | 25.89 | 26.07 | 25.81 | 24.10 | 23.92 | 24.02 | 21.68 | 21.46 | 21.58 |
| | | 1 | 1 | **28.70** | 28.52 | 28.60 | 26.44 | **26.47** | 26.35 | **27.40** | 27.28 | 27.34 | **24.95** | 24.88 | 24.91 |
| | | 1 | 49 | 28.63 | 28.56 | 28.51 | 26.29 | 26.37 | 26.44 | 27.36 | **27.40** | **27.40** | 24.81 | 24.94 | 24.90 |
| | | 1 | 50 | 25.19 | 25.22 | 25.18 | 25.80 | 25.88 | 25.81 | 23.88 | 23.96 | 24.09 | 21.47 | 21.56 | 21.55 |
| | | 25 | 12 | 28.62 | 28.57 | 28.57 | 26.38 | 26.46 | 26.35 | 27.29 | 27.31 | 27.39 | 24.80 | 24.82 | 24.91 |
| | | 50 | 0 | 28.43 | 28.34 | 28.35 | 25.89 | 25.81 | 25.77 | 27.13 | 27.11 | 27.14 | 24.64 | 24.61 | 24.62 |
| | QPSK | 1 | 0 | 25.31 | 25.25 | 25.28 | 25.43 | 25.55 | 25.30 | 24.15 | 23.89 | 24.03 | 21.62 | 21.50 | 21.58 |
| | | 1 | 1 | 28.30 | 28.64 | 28.63 | **26.50** | **26.50** | 26.34 | 26.64 | 27.01 | 26.93 | **25.00** | 24.86 | 24.91 |
| | | 1 | 49 | 28.21 | **28.70** | **28.70** | 26.43 | 26.36 | **26.50** | 26.66 | 27.03 | 26.92 | 24.90 | **25.00** | **25.00** |
| | | 1 | 50 | 25.28 | 25.17 | 25.24 | 25.30 | 25.27 | 25.42 | 23.88 | 23.99 | 24.01 | 21.47 | 21.55 | 21.55 |
| | | 25 | 12 | 28.48 | 28.55 | 28.54 | 26.37 | 26.34 | 26.34 | 26.91 | **27.24** | 27.04 | 24.82 | 24.85 | 24.92 |
| | | 50 | 0 | 27.55 | 27.89 | 27.89 | 25.25 | 25.33 | 25.32 | 25.96 | 26.41 | 26.40 | 24.08 | 24.12 | 24.17 |
| | 16QAM | 1 | 0 | 25.67 | 25.39 | 25.51 | 24.58 | 24.49 | 24.52 | 24.30 | 24.18 | 24.20 | 21.91 | 21.66 | 21.79 |
| | | 1 | 1 | 27.94 | 28.00 | 28.00 | 25.60 | **25.77** | 25.59 | 26.08 | 26.37 | 26.36 | **24.52** | 24.46 | 24.33 |
| | | 1 | 49 | 27.76 | 28.13 | **28.18** | 25.55 | 25.48 | 25.62 | 26.22 | 26.44 | 26.34 | 24.15 | 24.46 | 24.49 |
| | | 1 | 50 | 25.34 | 25.35 | 25.37 | 24.49 | 24.42 | 24.38 | 24.20 | 24.30 | 24.26 | 21.65 | 21.83 | 21.84 |
| | | 25 | 12 | 27.71 | 27.76 | 27.73 | 25.28 | 25.34 | 25.31 | 26.10 | **26.51** | 26.48 | 24.06 | 24.15 | 24.11 |
| | | 50 | 0 | 26.74 | 26.80 | 26.84 | 24.32 | 24.32 | 24.28 | 25.13 | 25.53 | 25.57 | 23.06 | 23.05 | 23.07 |
| | 64QAM | 1 | 0 | 25.66 | 25.29 | 25.47 | **24.21** | 24.11 | 23.86 | 24.21 | 24.07 | 24.15 | 21.64 | 21.73 | 21.65 |
| | | 1 | 1 | 26.25 | 26.43 | 26.53 | 23.92 | 24.10 | 23.96 | 24.75 | 25.05 | 25.08 | 22.84 | **22.93** | 22.74 |
| | | 1 | 49 | 26.46 | **26.63** | 26.51 | 23.86 | 23.91 | 23.93 | 24.88 | 25.06 | **25.30** | 22.70 | 22.86 | 22.83 |
| | | 1 | 50 | 25.41 | 25.23 | 25.29 | 23.88 | 23.89 | 23.97 | 24.10 | 24.29 | 23.97 | 21.62 | 21.57 | 21.76 |
| | | 25 | 12 | 26.24 | 26.12 | 26.24 | 23.76 | 23.74 | 23.66 | 24.83 | 24.94 | 25.00 | 22.46 | 22.51 | 22.55 |
| | | 50 | 0 | 26.26 | 26.23 | 26.25 | 23.71 | 23.78 | 23.78 | 24.76 | 24.99 | 25.00 | 22.61 | 22.61 | 22.61 |
| | 256QAM | 1 | 0 | 24.16 | 24.34 | 24.17 | **21.94** | 21.73 | 21.70 | 23.00 | 22.89 | **23.17** | 20.62 | 20.34 | 20.38 |
| | | 1 | 1 | **24.38** | 23.91 | 24.31 | 21.66 | 21.81 | 21.63 | 23.05 | 22.89 | 22.94 | 20.54 | 20.25 | **20.69** |
| | | 1 | 49 | 24.11 | 24.12 | 23.95 | 21.64 | 21.73 | 21.75 | 22.93 | 22.92 | 22.92 | 20.36 | 20.59 | 20.59 |
| | | 1 | 50 | 24.25 | 23.89 | 24.15 | 21.66 | 21.61 | 21.63 | 22.85 | 22.78 | 22.97 | 20.38 | 20.50 | 20.62 |
| | | 25 | 12 | 24.27 | 24.04 | 24.23 | 21.61 | 21.76 | 21.78 | 22.94 | 22.88 | 23.00 | 20.54 | 20.51 | 20.63 |
| | | 50 | 0 | 24.25 | 24.18 | 24.18 | 21.65 | 21.75 | 21.75 | 22.87 | 22.83 | 22.96 | 20.49 | 20.50 | 20.56 |

## OUTPUT POWER FOR 5G NR n77 (30.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 7 | | | ANT 8 | | | ANT 9 | | | ANT 4 | | |
| | | | | 647666 | 656000 | 664333 | 647666 | 656000 | 664333 | 647666 | 656000 | 664333 | 647666 | 656000 | 664333 |
| | | | | 3715.0 | 3840.0 | 3965.0 | 3715.0 | 3840.0 | 3965.0 | 3715.0 | 3840.0 | 3965.0 | 3715.0 | 3840.0 | 3965.0 |
| 30.0 | BPSK | 1 | 0 | 25.37 | 25.20 | 25.26 | 25.85 | 25.90 | 25.88 | 24.16 | 23.87 | 23.97 | 21.80 | 21.70 | 21.51 |
| | | 1 | 1 | **28.70** | 28.52 | 28.64 | 26.44 | **26.50** | 26.39 | **27.40** | 27.18 | 27.33 | 24.96 | 24.93 | 24.88 |
| | | 1 | 76 | 28.54 | 28.48 | 28.62 | 26.25 | 26.38 | 26.47 | 27.33 | **27.40** | **27.40** | 24.75 | 24.92 | **25.00** |
| | | 1 | 77 | 25.23 | 25.23 | 25.19 | 25.77 | 25.83 | 25.84 | 23.98 | 23.80 | 23.86 | 21.47 | 21.57 | 21.51 |
| | | 36 | 18 | 28.66 | 28.47 | 28.58 | 26.29 | 26.30 | 26.41 | 27.31 | 27.30 | 27.30 | 24.84 | 24.88 | 24.84 |
| | | 75 | 0 | 28.37 | 28.31 | 28.44 | 25.84 | 25.78 | 25.84 | 27.08 | 27.13 | 27.15 | 24.60 | 24.71 | 24.63 |
| | QPSK | 1 | 0 | 25.48 | 25.27 | 25.24 | 25.46 | 25.44 | 25.38 | 24.18 | 23.96 | 24.07 | 21.71 | 21.52 | 21.65 |
| | | 1 | 1 | 28.45 | **28.70** | 28.67 | **26.50** | 26.39 | **26.50** | 26.67 | 26.94 | 26.89 | **25.00** | **25.00** | 24.98 |
| | | 1 | 76 | 28.31 | 28.55 | **28.70** | 26.40 | 26.29 | 26.48 | 26.71 | 26.97 | 26.84 | 24.83 | 24.97 | 24.98 |
| | | 1 | 77 | 25.23 | 25.16 | 25.27 | 25.20 | 25.35 | 25.46 | 23.92 | 23.87 | 24.01 | 21.60 | 21.61 | 21.60 |
| | | 36 | 18 | 28.33 | 28.51 | 28.58 | 26.38 | 26.30 | 26.32 | 26.92 | **27.16** | 26.97 | 24.82 | 24.88 | 24.83 |
| | | 75 | 0 | 27.34 | 27.79 | 27.92 | 25.26 | 25.27 | 25.35 | 25.99 | 26.24 | 26.42 | 24.12 | 24.15 | 24.16 |
| | 16QAM | 1 | 0 | 25.60 | 25.43 | 25.55 | 24.53 | 24.74 | 24.56 | 24.52 | 24.12 | 24.30 | 21.80 | 21.77 | 21.89 |
| | | 1 | 1 | 27.56 | 28.14 | **28.15** | 25.58 | 25.59 | **25.71** | 26.12 | 26.27 | 26.33 | 24.42 | 24.43 | 24.41 |
| | | 1 | 76 | 27.52 | 28.08 | 28.13 | 25.39 | 25.50 | 25.58 | 26.03 | 26.30 | 26.41 | 24.20 | 24.45 | **24.51** |
| | | 1 | 77 | 25.38 | 25.38 | 25.35 | 24.59 | 24.46 | 24.68 | 24.12 | 24.19 | 24.25 | 21.83 | 21.80 | 21.83 |
| | | 36 | 18 | 27.68 | 27.71 | 27.82 | 25.28 | 25.28 | 25.37 | 26.06 | 26.45 | **26.48** | 24.08 | 24.12 | 24.05 |
| | | 75 | 0 | 26.69 | 26.73 | 26.87 | 24.33 | 24.25 | 24.37 | 25.19 | 25.51 | 25.54 | 23.04 | 23.13 | 23.12 |
| | 64QAM | 1 | 0 | 25.62 | 25.46 | 25.55 | **24.09** | 23.80 | 24.03 | 24.24 | 24.18 | 24.23 | 21.92 | 21.80 | 21.89 |
| | | 1 | 1 | 26.48 | 26.45 | **26.74** | 23.98 | 24.05 | 24.00 | 25.08 | 25.05 | 25.32 | **22.80** | 22.69 | 22.76 |
| | | 1 | 76 | 26.35 | 26.45 | 26.43 | 23.86 | 24.08 | 24.08 | 25.10 | 25.11 | **25.41** | 22.74 | 22.77 | 22.69 |
| | | 1 | 77 | 25.28 | 25.32 | 25.55 | 23.82 | 23.84 | 23.94 | 24.30 | 24.17 | 24.25 | 21.68 | 21.81 | 21.73 |
| | | 36 | 18 | 26.27 | 26.16 | 26.35 | 23.64 | 23.63 | 23.72 | 24.81 | 24.93 | 25.06 | 22.56 | 22.55 | 22.50 |
| | | 75 | 0 | 26.18 | 26.13 | 26.24 | 23.67 | 23.71 | 23.75 | 24.78 | 24.97 | 24.95 | 22.48 | 22.55 | 22.55 |
| | 256QAM | 1 | 0 | 24.33 | 24.34 | 24.17 | 21.64 | **22.10** | 21.73 | 23.08 | 22.90 | 23.07 | 20.63 | 20.54 | 20.67 |
| | | 1 | 1 | **24.52** | 23.96 | 24.27 | 21.85 | 21.80 | 21.66 | 22.97 | 22.93 | **23.10** | 20.58 | **20.72** | 20.46 |
| | | 1 | 76 | 24.22 | 24.09 | 24.27 | 21.48 | 21.65 | 21.59 | 22.88 | 22.83 | 23.01 | 20.43 | 20.58 | 20.68 |
| | | 1 | 77 | 24.12 | 24.19 | 24.22 | 21.54 | 21.78 | 21.70 | 22.93 | 22.84 | 22.87 | 20.54 | 20.68 | 20.57 |
| | | 36 | 18 | 24.29 | 24.12 | 24.24 | 21.78 | 21.69 | 21.71 | 22.93 | 22.85 | 22.88 | 20.58 | 20.59 | 20.50 |
| | | 75 | 0 | 24.22 | 24.16 | 24.28 | 21.75 | 21.75 | 21.79 | 23.02 | 22.89 | 22.97 | 20.57 | 20.63 | 20.52 |

## OUTPUT POWER FOR 5G NR n77 (40.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 7 | | | ANT 8 | | | ANT 9 | | | ANT 4 | | |
| | | | | 648000 | 656000 | 664000 | 648000 | 656000 | 664000 | 648000 | 656000 | 664000 | 648000 | 656000 | 664000 |
| | | | | 3720.0 | 3840.0 | 3960.0 | 3720.0 | 3840.0 | 3960.0 | 3720.0 | 3840.0 | 3960.0 | 3720.0 | 3840.0 | 3960.0 |
| 40.0 | BPSK | 1 | 0 | 25.49 | 25.28 | 25.25 | 25.85 | 25.90 | 25.88 | 24.06 | 24.04 | 24.19 | 21.65 | 21.50 | 21.70 |
| | | 1 | 1 | **28.70** | 28.67 | 28.47 | 26.44 | **26.50** | 26.39 | **27.40** | **27.40** | 27.23 | **24.96** | 24.91 | **24.96** |
| | | 1 | 104 | 28.62 | 28.40 | 28.60 | 26.25 | 26.38 | 26.47 | 27.35 | 27.25 | 27.21 | 24.83 | 24.72 | 24.94 |
| | | 1 | 105 | 25.28 | 25.10 | 25.05 | 25.77 | 25.83 | 25.84 | 23.95 | 23.79 | 24.08 | 21.63 | 21.38 | 21.62 |
| | | 50 | 25 | 28.41 | 28.46 | 28.37 | 26.29 | 26.30 | 26.41 | 27.10 | 27.25 | **27.40** | 24.59 | 24.76 | 24.82 |
| | | 100 | 0 | 28.20 | 28.26 | 28.23 | 25.84 | 25.78 | 25.84 | 26.94 | 27.10 | 27.20 | 24.43 | 24.54 | 24.65 |
| | QPSK | 1 | 0 | 25.39 | 25.33 | 25.13 | 25.46 | 25.44 | 25.38 | 24.01 | 23.84 | 24.24 | 21.59 | 21.61 | 21.70 |
| | | 1 | 1 | 28.42 | **28.70** | **28.70** | **26.50** | 26.39 | **26.50** | 26.70 | 26.93 | 26.92 | **25.00** | **25.00** | 24.99 |
| | | 1 | 104 | 28.55 | 28.50 | 28.62 | 26.40 | 26.29 | 26.48 | 27.02 | 26.81 | 26.95 | 24.96 | 24.86 | **25.00** |
| | | 1 | 105 | 25.25 | 25.16 | 25.28 | 25.20 | 25.35 | 25.46 | 24.10 | 23.86 | 24.17 | 21.62 | 21.40 | 21.66 |
| | | 50 | 25 | 28.32 | 28.46 | 28.41 | 26.38 | 26.30 | 26.32 | 26.71 | 26.96 | **27.11** | 24.61 | 24.78 | 24.77 |
| | | 100 | 0 | 27.42 | 27.76 | 27.73 | 25.26 | 25.27 | 25.35 | 25.74 | 26.05 | 26.33 | 23.98 | 24.06 | 24.11 |
| | 16QAM | 1 | 0 | 25.68 | 25.64 | 25.38 | 24.53 | 24.74 | 24.56 | 24.24 | 24.16 | 24.34 | 21.82 | 21.90 | 21.94 |
| | | 1 | 1 | 27.55 | 28.03 | **28.09** | 25.58 | 25.59 | **25.71** | 25.73 | 26.20 | 26.40 | 24.45 | 24.46 | **24.49** |
| | | 1 | 104 | 27.81 | 28.04 | 28.01 | 25.39 | 25.50 | 25.58 | 26.12 | 26.02 | 26.40 | 24.47 | 24.21 | 24.47 |
| | | 1 | 105 | 25.63 | 25.39 | 25.32 | 24.59 | 24.46 | 24.68 | 24.38 | 24.06 | 24.42 | 21.73 | 21.69 | 21.85 |
| | | 50 | 25 | 27.58 | 27.75 | 27.64 | 25.28 | 25.28 | 25.37 | 25.85 | 26.37 | **26.50** | 23.85 | 24.09 | 24.03 |
| | | 100 | 0 | 26.57 | 26.78 | 26.66 | 24.33 | 24.25 | 24.37 | 24.90 | 25.35 | 25.68 | 22.93 | 22.99 | 23.09 |
| | 64QAM | 1 | 0 | 25.45 | 25.53 | 25.38 | **24.09** | 23.80 | 24.03 | 24.20 | 24.24 | 24.43 | 21.89 | 21.76 | 21.85 |
| | | 1 | 1 | 26.31 | **26.58** | 26.55 | 23.98 | 24.05 | 24.00 | 24.18 | 24.83 | 25.04 | 22.98 | 22.89 | **23.05** |
| | | 1 | 104 | 26.53 | 26.19 | 26.43 | 23.86 | 24.08 | 24.08 | 24.96 | 24.77 | **25.36** | 22.90 | 22.80 | 22.73 |
| | | 1 | 105 | 25.44 | 25.29 | 25.32 | 23.82 | 23.84 | 23.94 | 24.34 | 24.00 | 24.38 | 21.93 | 21.63 | 21.83 |
| | | 50 | 25 | 26.08 | 26.08 | 25.94 | 23.64 | 23.63 | 23.72 | 24.51 | 24.99 | 25.07 | 22.25 | 22.46 | 22.48 |
| | | 100 | 0 | 26.04 | 26.19 | 26.14 | 23.67 | 23.71 | 23.75 | 24.48 | 24.92 | 25.08 | 22.36 | 22.45 | 22.59 |
| | 256QAM | 1 | 0 | 24.40 | **24.42** | 24.25 | 21.64 | **22.10** | 21.73 | 22.59 | **23.17** | 23.04 | 20.54 | 20.54 | 20.68 |
| | | 1 | 1 | 24.40 | 24.29 | 24.13 | 21.85 | 21.80 | 21.66 | 22.92 | 22.78 | 23.01 | 20.67 | 20.40 | 20.56 |
| | | 1 | 104 | 24.26 | 24.08 | 24.11 | 21.48 | 21.65 | 21.59 | 23.06 | 22.90 | 23.09 | 20.65 | 20.39 | **20.78** |
| | | 1 | 105 | 24.31 | 24.06 | 24.17 | 21.54 | 21.78 | 21.70 | 22.96 | 22.91 | 23.05 | 20.69 | 20.41 | 20.65 |
| | | 50 | 25 | 23.99 | 24.14 | 24.00 | 21.78 | 21.69 | 21.71 | 22.77 | 22.82 | 22.97 | 20.38 | 20.52 | 20.46 |
| | | 100 | 0 | 24.10 | 24.21 | 24.09 | 21.75 | 21.75 | 21.79 | 22.82 | 22.86 | 23.08 | 20.44 | 20.48 | 20.46 |

## OUTPUT POWER FOR 5G NR n77 (50.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 7 | | | ANT 8 | | | ANT 9 | | | ANT 4 | | |
| | | | | 648333 | 656000 | 663666 | 648333 | 656000 | 663666 | 648333 | 656000 | 663666 | 648333 | 656000 | 663666 |
| | | | | 3725.0 | 3840.0 | 3955.0 | 3725.0 | 3840.0 | 3955.0 | 3725.0 | 3840.0 | 3955.0 | 3725.0 | 3840.0 | 3955.0 |
| 50.0 | BPSK | 1 | 0 | 25.14 | 25.38 | 25.28 | 25.92 | 25.92 | 25.81 | 23.86 | 24.01 | 24.12 | 21.66 | 21.75 | 21.68 |
| | | 1 | 1 | 28.56 | 28.61 | 28.54 | 26.38 | **26.50** | 26.35 | 27.22 | 27.35 | **27.40** | 24.99 | 24.78 | 24.95 |
| | | 1 | 131 | 28.67 | 28.62 | **28.70** | 26.45 | 26.27 | 26.30 | **27.40** | **27.40** | 27.32 | **25.00** | 24.76 | 24.93 |
| | | 1 | 132 | 25.21 | 25.13 | 25.16 | 25.94 | 25.79 | 25.65 | 23.98 | 24.10 | 23.95 | 21.70 | 21.50 | 21.68 |
| | | 64 | 32 | 28.42 | 28.60 | 28.52 | 26.23 | 26.32 | 26.17 | 27.22 | 27.33 | 27.27 | 24.72 | 24.82 | 24.85 |
| | | 128 | 0 | 28.25 | 28.34 | 28.32 | 25.81 | 25.75 | 25.77 | 26.99 | 27.12 | 27.08 | 24.59 | 24.59 | 24.60 |
| | QPSK | 1 | 0 | 25.27 | 25.27 | 25.27 | 25.43 | 25.36 | 25.26 | 23.89 | 24.15 | 24.08 | 21.60 | 21.64 | 21.60 |
| | | 1 | 1 | 28.58 | **28.70** | 28.65 | **26.50** | 26.48 | **26.50** | 26.96 | 27.14 | 27.17 | 24.99 | **25.00** | **25.00** |
| | | 1 | 131 | **28.70** | 28.49 | 28.60 | 26.44 | 26.26 | 26.20 | **27.27** | 27.10 | 27.11 | 24.93 | 24.80 | 24.96 |
| | | 1 | 132 | 25.29 | 25.24 | 25.15 | 25.44 | 25.25 | 25.27 | 24.10 | 24.10 | 24.08 | 21.62 | 21.45 | 21.59 |
| | | 64 | 32 | 28.45 | 28.57 | 28.58 | 26.30 | 26.29 | 26.27 | 26.87 | 27.27 | 27.20 | 24.73 | 24.83 | 24.84 |
| | | 128 | 0 | 27.58 | 27.78 | 27.82 | 25.32 | 25.23 | 25.18 | 25.92 | 26.41 | 26.42 | 24.06 | 24.05 | 24.06 |
| | 16QAM | 1 | 0 | 25.38 | 25.59 | 25.53 | 24.41 | 24.41 | 24.52 | 24.11 | 24.20 | 24.29 | 21.88 | 21.82 | 21.82 |
| | | 1 | 1 | 27.62 | **28.29** | 28.04 | 25.64 | 25.40 | 25.55 | 25.96 | **26.67** | 26.30 | 24.49 | 24.48 | 24.46 |
| | | 1 | 131 | 28.03 | 28.03 | 28.06 | **25.65** | 25.45 | 25.41 | 26.30 | 26.50 | 26.51 | **24.54** | 24.29 | 24.45 |
| | | 1 | 132 | 25.68 | 25.54 | 25.39 | 24.59 | 24.50 | 24.35 | 24.16 | 24.23 | 24.31 | 21.84 | 21.76 | 21.83 |
| | | 64 | 32 | 27.76 | 27.76 | 27.83 | 25.34 | 25.14 | 25.07 | 26.17 | 26.61 | 26.54 | 24.03 | 24.06 | 24.08 |
| | | 128 | 0 | 26.64 | 26.84 | 26.76 | 24.36 | 24.16 | 24.33 | 25.00 | 25.52 | 25.52 | 23.14 | 22.98 | 23.06 |
| | 64QAM | 1 | 0 | 25.63 | 25.52 | 25.47 | **24.28** | 23.88 | 24.10 | 24.32 | 24.26 | 24.31 | 21.97 | 21.64 | 21.69 |
| | | 1 | 1 | 26.29 | **26.69** | 26.40 | 24.27 | 23.95 | 24.13 | 24.56 | 25.10 | **25.41** | 22.67 | **23.04** | 22.74 |
| | | 1 | 131 | 26.45 | 26.25 | 26.47 | 24.09 | 24.06 | 23.81 | 25.07 | 25.28 | 25.08 | 22.82 | 22.89 | 22.89 |
| | | 1 | 132 | 25.37 | 25.50 | 25.35 | 23.91 | 23.83 | 23.81 | 24.07 | 24.12 | 24.22 | 21.90 | 21.89 | 22.10 |
| | | 64 | 32 | 26.03 | 26.28 | 26.16 | 23.77 | 23.69 | 23.80 | 24.76 | 25.06 | 25.06 | 22.54 | 22.60 | 22.48 |
| | | 128 | 0 | 26.16 | 26.27 | 26.18 | 23.81 | 23.68 | 23.83 | 24.59 | 25.03 | 25.06 | 22.60 | 22.63 | 22.52 |
| | 256QAM | 1 | 0 | 24.07 | 24.27 | 23.89 | 21.84 | 21.78 | 21.69 | 22.77 | 22.92 | 23.02 | 20.55 | 20.63 | 20.44 |
| | | 1 | 1 | 24.27 | **24.36** | 24.33 | **22.02** | 21.88 | 21.85 | 22.88 | 23.01 | 22.89 | 20.53 | 20.47 | **20.79** |
| | | 1 | 131 | 24.14 | 24.07 | 23.99 | 21.91 | 21.74 | 21.82 | 22.99 | 22.97 | **23.11** | 20.66 | 20.54 | 20.62 |
| | | 1 | 132 | 24.09 | 24.23 | 24.05 | 21.62 | 21.54 | 21.49 | 22.85 | 22.85 | 22.75 | 20.50 | 20.35 | 20.65 |
| | | 64 | 32 | 24.03 | 24.26 | 24.07 | 21.70 | 21.59 | 21.70 | 22.73 | 22.99 | 22.90 | 20.48 | 20.57 | 20.46 |
| | | 128 | 0 | 24.06 | 24.21 | 24.09 | 21.75 | 21.59 | 21.76 | 22.82 | 23.02 | 22.95 | 20.56 | 20.54 | 20.55 |

## OUTPUT POWER FOR 5G NR n77 (60.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 7 | | | ANT 8 | | | ANT 9 | | | ANT 4 | | |
| | | | | 648666 | 656000 | 663333 | 648666 | 656000 | 663333 | 648666 | 656000 | 663333 | 648666 | 656000 | 663333 |
| | | | | 3730.0 | 3840.0 | 3950.0 | 3730.0 | 3840.0 | 3950.0 | 3730.0 | 3840.0 | 3950.0 | 3730.0 | 3840.0 | 3950.0 |
| 60.0 | BPSK | 1 | 0 | 25.02 | 25.45 | 25.26 | 25.70 | 25.91 | 25.86 | 23.85 | 24.05 | 23.91 | 21.54 | 21.55 | 21.63 |
| | | 1 | 1 | 28.48 | 28.63 | **28.70** | 26.36 | **26.50** | 26.43 | 27.24 | 27.39 | **27.40** | 24.76 | 24.92 | 24.97 |
| | | 1 | 160 | **28.70** | 28.25 | 28.61 | 26.39 | 26.06 | 26.49 | **27.40** | **27.40** | 27.34 | **25.00** | 24.70 | 24.80 |
| | | 1 | 161 | 25.33 | 25.08 | 25.20 | 25.71 | 25.66 | 25.91 | 24.03 | 24.20 | 23.86 | 21.60 | 21.35 | 21.52 |
| | | 81 | 40 | 28.41 | 28.52 | 28.60 | 26.10 | 26.16 | 26.44 | 27.15 | 27.38 | 27.27 | 24.63 | 24.72 | 24.82 |
| | | 162 | 0 | 28.31 | 28.32 | 28.44 | 25.70 | 25.62 | 25.97 | 26.95 | 27.18 | 27.12 | 24.47 | 24.51 | 24.67 |
| | QPSK | 1 | 0 | 25.26 | 25.46 | 25.24 | 25.19 | 25.24 | 25.39 | 23.76 | 24.01 | 23.89 | 21.47 | 21.57 | 21.68 |
| | | 1 | 1 | 28.50 | **28.70** | 28.64 | 26.34 | 26.44 | 26.41 | 26.90 | 27.31 | 27.06 | 24.89 | **25.00** | **25.00** |
| | | 1 | 160 | 28.69 | 28.47 | 28.36 | **26.50** | 26.10 | 26.47 | **27.39** | 27.26 | 27.01 | 24.99 | 24.72 | 24.82 |
| | | 1 | 161 | 25.55 | 25.02 | 25.15 | 25.41 | 25.02 | 25.34 | 24.17 | 24.15 | 23.93 | 21.66 | 21.28 | 21.49 |
| | | 81 | 40 | 28.47 | 28.53 | 28.62 | 26.14 | 26.15 | **26.50** | 27.05 | 27.34 | 27.13 | 24.64 | 24.71 | 24.94 |
| | | 162 | 0 | 27.71 | 27.81 | 27.85 | 25.18 | 25.19 | 25.48 | 26.21 | 26.57 | 26.38 | 23.97 | 24.01 | 24.15 |
| | 16QAM | 1 | 0 | 24.91 | 25.59 | 25.44 | 24.39 | 24.55 | 24.70 | 24.10 | 24.07 | 24.22 | 21.66 | 21.93 | 21.97 |
| | | 1 | 1 | 27.52 | **28.24** | 27.79 | 25.49 | 25.56 | **25.83** | 26.18 | 26.67 | 26.30 | 24.49 | 24.27 | 24.37 |
| | | 1 | 160 | 28.02 | 28.05 | 27.61 | 25.41 | 25.46 | 25.70 | 26.71 | **26.92** | 26.23 | **24.50** | 24.09 | 24.30 |
| | | 1 | 161 | 25.01 | 25.36 | 25.46 | 24.48 | 24.44 | 24.60 | 23.99 | 24.21 | 24.31 | 21.84 | 21.74 | 21.84 |
| | | 81 | 40 | 27.68 | 27.82 | 27.91 | 25.06 | 25.11 | 25.38 | 26.15 | 26.61 | 26.52 | 23.91 | 23.95 | 24.15 |
| | | 162 | 0 | 26.77 | 26.75 | 26.83 | 24.13 | 24.06 | 24.42 | 25.30 | 25.58 | 25.56 | 22.93 | 23.00 | 23.15 |
| | 64QAM | 1 | 0 | 25.40 | 25.60 | 25.30 | 23.90 | 24.02 | 24.08 | 23.87 | 24.00 | 24.12 | 21.60 | 21.57 | 21.82 |
| | | 1 | 1 | 26.28 | **26.93** | 26.48 | 23.82 | 23.83 | **24.26** | 24.85 | 25.11 | 25.10 | 22.48 | **22.91** | 22.64 |
| | | 1 | 160 | 26.62 | 26.49 | 26.37 | 23.79 | 23.72 | 24.11 | **25.34** | 25.21 | 25.10 | 22.89 | 22.50 | 22.55 |
| | | 1 | 161 | 25.71 | 25.59 | 25.21 | 23.94 | 23.77 | 24.13 | 24.24 | 24.01 | 24.12 | 21.90 | 21.54 | 21.85 |
| | | 81 | 40 | 26.12 | 26.18 | 26.22 | 23.51 | 23.53 | 23.85 | 24.81 | 24.98 | 24.91 | 22.42 | 22.52 | 22.62 |
| | | 162 | 0 | 26.19 | 26.20 | 26.25 | 23.59 | 23.59 | 23.90 | 24.87 | 24.99 | 24.99 | 22.48 | 22.48 | 22.55 |
| | 256QAM | 1 | 0 | 24.30 | 24.22 | 24.29 | 21.45 | 21.83 | **21.91** | 22.78 | 22.89 | 22.97 | 20.59 | 20.34 | 20.56 |
| | | 1 | 1 | 24.09 | 24.43 | 24.24 | 21.55 | 21.80 | 21.80 | 22.75 | 23.04 | 22.93 | 20.40 | 20.53 | **20.61** |
| | | 1 | 160 | **24.47** | 24.03 | 24.01 | 21.89 | 21.40 | 21.69 | **23.16** | 22.98 | 22.64 | 20.56 | 20.38 | 20.43 |
| | | 1 | 161 | 24.40 | 24.22 | 24.29 | 21.77 | 21.34 | 21.88 | 22.99 | 23.05 | 22.90 | 20.59 | 20.27 | 20.48 |
| | | 81 | 40 | 24.04 | 24.20 | 24.15 | 21.43 | 21.50 | 21.80 | 22.90 | 23.07 | 22.80 | 20.41 | 20.46 | 20.48 |
| | | 162 | 0 | 24.10 | 24.25 | 24.25 | 21.50 | 21.53 | 21.84 | 22.91 | 23.08 | 22.88 | 20.48 | 20.46 | 20.56 |

## OUTPUT POWER FOR 5G NR n77 (70.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 7 | | | ANT 8 | | | ANT 9 | | | ANT 4 | | |
| | | | | 649000 | 656000 | 663000 | 649000 | 656000 | 663000 | 649000 | 656000 | 663000 | 649000 | 656000 | 663000 |
| | | | | 3735.0 | 3840.0 | 3945.0 | 3735.0 | 3840.0 | 3945.0 | 3735.0 | 3840.0 | 3945.0 | 3735.0 | 3840.0 | 3945.0 |
| 70.0 | BPSK | 1 | 0 | 24.84 | 25.33 | 25.40 | 25.55 | 25.96 | 25.94 | 23.76 | 23.98 | 24.11 | 21.24 | 21.54 | 21.57 |
| | | 1 | 1 | 28.34 | 28.59 | 28.58 | 26.05 | **26.50** | 26.34 | 27.11 | 27.20 | 27.35 | 24.56 | 24.78 | **25.00** |
| | | 1 | 187 | 28.48 | 28.39 | 28.49 | 26.42 | 26.22 | 26.39 | **27.40** | **27.40** | **27.40** | 24.87 | 24.78 | 24.79 |
| | | 1 | 188 | 25.23 | 25.04 | 25.31 | 25.73 | 25.58 | 25.77 | 24.08 | 23.91 | 23.85 | 21.75 | 21.47 | 21.41 |
| | | 90 | 45 | 28.39 | 28.39 | **28.63** | 26.17 | 26.23 | 26.45 | 27.38 | 27.19 | 27.38 | 24.69 | 24.69 | 24.88 |
| | | 180 | 0 | 28.18 | 28.22 | 28.46 | 25.65 | 25.69 | 25.95 | 27.05 | 27.05 | 27.19 | 24.44 | 24.52 | 24.63 |
| | QPSK | 1 | 0 | 24.99 | 25.35 | 25.37 | 25.03 | 25.58 | 25.30 | 23.87 | 23.95 | 23.93 | 21.35 | 21.55 | 21.67 |
| | | 1 | 1 | 28.22 | **28.70** | 28.68 | 26.04 | **26.50** | **26.50** | 27.15 | **27.32** | 27.27 | 24.61 | **25.00** | **25.00** |
| | | 1 | 187 | **28.70** | 28.43 | 28.58 | **26.50** | 26.14 | 26.42 | 27.29 | 27.23 | 27.17 | **25.00** | 24.66 | 24.86 |
| | | 1 | 188 | 25.25 | 25.07 | 25.25 | 25.40 | 25.14 | 25.20 | 24.16 | 23.92 | 24.01 | 21.54 | 21.49 | 21.38 |
| | | 90 | 45 | 28.43 | 28.46 | **28.70** | 26.24 | 26.26 | 26.44 | 27.31 | 27.18 | 27.28 | 24.76 | 24.72 | 24.88 |
| | | 180 | 0 | 27.57 | 27.72 | 27.85 | 25.07 | 25.16 | 25.40 | 26.34 | 26.47 | 26.60 | 23.92 | 24.04 | 24.17 |
| | 16QAM | 1 | 0 | 25.12 | 25.50 | 25.52 | 24.21 | 24.64 | 24.51 | 24.10 | 24.11 | 24.29 | 21.69 | 21.75 | 21.85 |
| | | 1 | 1 | 27.53 | **28.10** | 28.01 | 25.20 | **25.57** | 25.54 | 25.94 | 26.48 | 26.55 | 24.06 | 24.28 | **24.50** |
| | | 1 | 187 | 28.06 | 27.96 | 27.67 | 25.38 | 25.37 | 25.50 | **26.72** | 26.68 | **26.72** | 24.48 | 24.23 | 24.10 |
| | | 1 | 188 | 25.43 | 25.32 | 25.48 | 24.62 | 24.21 | 24.32 | 24.33 | 24.28 | 24.02 | 22.00 | 21.81 | 21.63 |
| | | 90 | 45 | 27.66 | 27.69 | 28.04 | 25.09 | 25.20 | 25.38 | 26.41 | 26.43 | 26.71 | 23.94 | 23.99 | 24.10 |
| | | 180 | 0 | 26.58 | 26.63 | 26.97 | 24.11 | 24.14 | 24.30 | 25.39 | 25.45 | 25.61 | 22.89 | 22.95 | 23.11 |
| | 64QAM | 1 | 0 | 25.31 | 25.46 | 25.34 | 23.96 | 23.97 | 24.05 | 24.32 | 24.44 | 24.17 | 21.58 | 21.98 | 21.86 |
| | | 1 | 1 | 25.71 | 26.78 | **26.85** | 24.00 | 24.06 | 23.83 | 24.87 | 25.22 | **25.51** | 22.55 | 22.76 | 22.85 |
| | | 1 | 187 | 26.24 | 26.47 | 26.63 | **24.23** | 23.81 | 23.81 | 25.38 | 25.38 | 25.17 | 22.78 | **23.15** | 22.33 |
| | | 1 | 188 | 25.50 | 25.18 | 25.44 | 24.03 | 23.76 | 23.92 | 24.23 | 24.10 | 24.09 | 21.77 | 21.85 | 21.79 |
| | | 90 | 45 | 26.04 | 26.15 | 26.51 | 23.54 | 23.63 | 23.84 | 25.01 | 24.88 | 25.08 | 22.40 | 22.49 | 22.54 |
| | | 180 | 0 | 26.10 | 26.09 | 26.43 | 23.64 | 23.74 | 23.75 | 24.93 | 24.94 | 25.04 | 22.47 | 22.48 | 22.62 |
| | 256QAM | 1 | 0 | 23.79 | 24.19 | 24.37 | 21.24 | 21.69 | 21.76 | 22.62 | 23.11 | 22.98 | 20.18 | 20.56 | **20.80** |
| | | 1 | 1 | 23.87 | 24.30 | 24.33 | 21.58 | **21.90** | 21.77 | 22.58 | 22.91 | 22.98 | 20.39 | 20.61 | 20.34 |
| | | 1 | 187 | 24.05 | 24.11 | 24.15 | 21.53 | 21.35 | 21.84 | **23.13** | 23.12 | 23.10 | 20.34 | 20.46 | 20.47 |
| | | 1 | 188 | 24.36 | 23.93 | 24.19 | 21.71 | 21.67 | 21.68 | 22.92 | 22.93 | 22.87 | 20.51 | 20.38 | 20.31 |
| | | 90 | 45 | 23.93 | 24.04 | 24.43 | 21.47 | 21.57 | 21.84 | 23.00 | 22.82 | 23.11 | 20.47 | 20.47 | 20.50 |
| | | 180 | 0 | 24.00 | 24.12 | **24.46** | 21.50 | 21.59 | 21.82 | 22.95 | 22.82 | 23.05 | 20.44 | 20.51 | 20.55 |

## OUTPUT POWER FOR 5G NR n77 (80.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 7 | | | ANT 8 | | | ANT 9 | | | ANT 4 | | |
| | | | | 649333 | 656000 | 662666 | 649333 | 656000 | 662666 | 649333 | 656000 | 662666 | 649333 | 656000 | 662666 |
| | | | | 3740.0 | 3840.0 | 3940.0 | 3740.0 | 3840.0 | 3940.0 | 3740.0 | 3840.0 | 3940.0 | 3740.0 | 3840.0 | 3940.0 |
| 80.0 | BPSK | 1 | 0 | 25.29 | 25.25 | 25.29 | 25.49 | 25.77 | 25.80 | 23.78 | 23.84 | 23.90 | 21.36 | 21.49 | 21.84 |
| | | 1 | 1 | 28.66 | 28.62 | **28.70** | 26.20 | **26.50** | 26.23 | 27.04 | 27.09 | 27.29 | 24.71 | 24.73 | 24.95 |
| | | 1 | 215 | 28.60 | 28.61 | 28.59 | 26.49 | 26.07 | 26.30 | 27.24 | **27.40** | 27.34 | 24.87 | 24.79 | 24.87 |
| | | 1 | 216 | 25.23 | 25.27 | 25.28 | 25.87 | 25.44 | 25.88 | 24.07 | 24.12 | 23.90 | 21.63 | 21.40 | 21.60 |
| | | 108 | 54 | 28.59 | 28.60 | 28.65 | 26.30 | 26.20 | **26.50** | 27.39 | 27.22 | **27.40** | 24.85 | 24.68 | **25.00** |
| | | 216 | 0 | 28.27 | 28.29 | 28.30 | 25.74 | 25.66 | 25.91 | 27.01 | 27.03 | 27.21 | 24.62 | 24.45 | 24.73 |
| | QPSK | 1 | 0 | 25.35 | 25.34 | 25.38 | 25.06 | 25.46 | 25.35 | 23.91 | 23.84 | 24.08 | 21.41 | 21.44 | 21.61 |
| | | 1 | 1 | **28.70** | **28.70** | 28.57 | 26.06 | 26.32 | 26.38 | 26.86 | 27.23 | 27.28 | 24.68 | 24.77 | 24.96 |
| | | 1 | 215 | 28.67 | 28.66 | 28.46 | **26.50** | 26.38 | 26.29 | **27.40** | **27.40** | 27.32 | **25.00** | **25.00** | 24.93 |
| | | 1 | 216 | 25.30 | 25.36 | 25.32 | 25.41 | 25.30 | 25.28 | 24.07 | 24.10 | 23.99 | 21.62 | 21.36 | 21.66 |
| | | 108 | 54 | 28.54 | 28.60 | 28.62 | 26.25 | 26.19 | 26.49 | 27.11 | 27.20 | 27.35 | 24.81 | 24.61 | **25.00** |
| | | 216 | 0 | 27.65 | 27.70 | 27.71 | 25.15 | 25.16 | 25.39 | 26.38 | 26.52 | 26.65 | 23.96 | 23.94 | 24.22 |
| | 16QAM | 1 | 0 | 25.14 | 25.58 | 25.54 | 24.25 | 24.46 | 24.32 | 23.87 | 24.09 | 23.89 | 21.45 | 21.69 | 21.66 |
| | | 1 | 1 | 27.73 | **28.19** | 27.90 | 25.17 | **25.64** | 25.47 | 26.03 | 26.45 | 26.57 | 24.07 | 24.35 | **24.48** |
| | | 1 | 215 | 27.72 | 28.12 | 27.86 | 25.63 | 25.49 | 25.49 | 26.69 | **26.87** | 26.68 | 24.37 | 24.28 | 24.26 |
| | | 1 | 216 | 25.13 | 25.53 | 25.51 | 24.57 | 24.47 | 24.63 | 24.30 | 24.10 | 24.29 | 21.94 | 21.52 | 21.89 |
| | | 108 | 54 | 27.81 | 27.85 | 27.90 | 25.26 | 25.12 | 25.40 | 26.26 | 26.44 | 26.65 | 24.09 | 23.87 | 24.27 |
| | | 216 | 0 | 26.59 | 26.64 | 26.63 | 24.22 | 24.24 | 24.38 | 25.48 | 25.46 | 25.56 | 22.99 | 22.88 | 23.20 |
| | 64QAM | 1 | 0 | 25.49 | 25.51 | 25.58 | 23.68 | 23.66 | 23.91 | 23.98 | 24.02 | 24.29 | 21.75 | 21.60 | 21.98 |
| | | 1 | 1 | 26.59 | 26.57 | **26.62** | 23.47 | **24.13** | 23.96 | 24.89 | **25.44** | 25.12 | 22.59 | 22.56 | **22.90** |
| | | 1 | 215 | 26.48 | 26.56 | 26.52 | 24.04 | 23.83 | 23.73 | 25.32 | 25.25 | 25.28 | 22.85 | 22.86 | 22.66 |
| | | 1 | 216 | 25.46 | 25.50 | 25.47 | 23.94 | 23.91 | 23.98 | 24.12 | 24.10 | 24.53 | 21.79 | 21.57 | 21.68 |
| | | 108 | 54 | 26.19 | 26.29 | 26.29 | 23.62 | 23.67 | 23.91 | 24.94 | 24.85 | 25.03 | 22.60 | 22.41 | 22.66 |
| | | 216 | 0 | 26.03 | 26.06 | 26.12 | 23.63 | 23.70 | 23.84 | 24.96 | 24.89 | 24.99 | 22.59 | 22.38 | 22.68 |
| | 256QAM | 1 | 0 | 24.38 | 24.23 | 24.32 | 21.22 | 21.78 | 21.56 | 22.73 | 22.64 | 22.96 | 20.33 | 20.43 | **20.77** |
| | | 1 | 1 | **24.41** | 24.23 | 24.27 | 21.34 | **21.95** | 21.84 | 22.62 | 22.94 | 22.89 | 20.26 | 20.59 | 20.48 |
| | | 1 | 215 | 24.30 | 24.23 | 24.17 | 21.78 | 21.53 | 21.79 | **23.11** | 22.87 | 22.91 | 20.62 | 20.50 | 20.70 |
| | | 1 | 216 | 24.30 | 24.22 | 24.16 | 21.82 | 21.37 | 21.63 | 22.89 | 22.68 | 23.01 | 20.54 | 20.37 | 20.28 |
| | | 108 | 54 | 24.24 | 24.28 | 24.23 | 21.57 | 21.56 | 21.92 | 22.89 | 22.87 | 23.07 | 20.58 | 20.37 | 20.67 |
| | | 216 | 0 | 24.07 | 24.09 | 24.04 | 21.59 | 21.59 | 21.76 | 22.92 | 22.75 | 23.01 | 20.55 | 20.39 | 20.63 |

## OUTPUT POWER FOR 5G NR n77 (90.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 7 | | | ANT 8 | | | ANT 9 | | | ANT 4 | | |
| | | | | 649666 | 656000 | 662333 | 649666 | 656000 | 662333 | 649666 | 656000 | 662333 | 649666 | 656000 | 662333 |
| | | | | 3745.0 | 3840.0 | 3935.0 | 3745.0 | 3840.0 | 3935.0 | 3745.0 | 3840.0 | 3935.0 | 3745.0 | 3840.0 | 3935.0 |
| 90.0 | BPSK | 1 | 0 | 25.25 | 25.20 | 25.25 | 25.42 | 25.87 | 25.71 | 23.90 | 23.74 | 23.77 | 21.33 | 21.63 | 21.60 |
| | | 1 | 1 | 28.59 | 28.59 | 28.68 | 25.80 | **26.48** | 26.24 | 27.15 | 27.12 | 27.25 | 24.55 | 24.84 | 24.91 |
| | | 1 | 243 | 28.61 | 28.69 | **28.70** | 26.27 | 26.42 | 26.36 | 27.33 | **27.40** | 27.37 | 24.98 | 24.94 | 24.85 |
| | | 1 | 244 | 25.24 | 25.30 | 25.29 | 25.90 | 25.89 | 25.90 | 24.13 | 23.99 | 24.01 | 21.74 | 21.68 | 21.57 |
| | | 120 | 60 | 28.56 | 28.59 | 28.65 | 26.26 | 26.18 | 26.45 | **27.40** | 27.15 | 27.39 | 24.89 | 24.69 | **24.99** |
| | | 243 | 0 | 28.20 | 28.24 | 28.25 | 25.59 | 25.72 | 25.92 | 27.10 | 27.00 | 27.16 | 24.55 | 24.56 | 24.70 |
| | QPSK | 1 | 0 | 25.25 | 25.29 | 25.40 | 24.84 | 25.49 | 25.25 | 23.66 | 23.96 | 23.96 | 21.31 | 21.63 | 21.62 |
| | | 1 | 1 | 28.62 | 28.66 | 28.60 | 25.89 | **26.50** | 26.22 | 26.78 | 27.08 | 27.14 | 24.51 | 24.80 | 24.89 |
| | | 1 | 243 | **28.70** | **28.70** | 28.50 | **26.50** | 26.44 | 26.27 | 27.34 | 27.38 | 27.08 | **25.00** | **25.00** | **25.00** |
| | | 1 | 244 | 25.30 | 25.38 | 25.36 | 25.23 | 25.28 | 25.32 | 23.99 | 24.11 | 24.01 | 21.61 | 21.72 | 21.48 |
| | | 120 | 60 | 28.53 | 28.55 | 28.59 | 26.29 | 26.25 | **26.50** | 27.26 | 27.17 | **27.40** | 24.95 | 24.74 | 24.96 |
| | | 243 | 0 | 27.58 | 27.62 | 27.62 | 25.08 | 25.22 | 25.27 | 26.50 | 26.49 | 26.61 | 24.04 | 24.02 | 24.14 |
| | 16QAM | 1 | 0 | 25.51 | 25.54 | 25.51 | 24.17 | 24.69 | 24.34 | 24.10 | 24.14 | 24.30 | 21.44 | 21.74 | 21.88 |
| | | 1 | 1 | 28.03 | 28.11 | 28.01 | 24.93 | **25.77** | 25.54 | 26.11 | 26.42 | 26.36 | 23.96 | **24.59** | 24.38 |
| | | 1 | 243 | 28.13 | **28.16** | 27.95 | 25.54 | 25.46 | 25.49 | 26.83 | **26.89** | 26.76 | 24.51 | 24.40 | 24.37 |
| | | 1 | 244 | 25.49 | 25.59 | 25.59 | 24.44 | 24.31 | 24.62 | 24.31 | 24.30 | 24.10 | 21.95 | 21.98 | 21.74 |
| | | 120 | 60 | 27.78 | 27.84 | 27.86 | 25.17 | 25.15 | 25.39 | 26.45 | 26.39 | 26.60 | 24.14 | 23.99 | 24.19 |
| | | 243 | 0 | 26.54 | 26.54 | 26.56 | 24.11 | 24.16 | 24.33 | 25.49 | 25.42 | 25.54 | 23.04 | 23.01 | 23.14 |
| | 64QAM | 1 | 0 | 25.46 | 25.49 | 25.55 | 23.40 | 24.06 | 23.81 | 24.09 | 23.87 | 24.04 | 21.42 | 21.51 | 21.38 |
| | | 1 | 1 | 26.48 | 26.53 | **26.60** | 23.49 | 23.94 | 24.17 | 24.56 | 25.02 | 24.86 | 22.67 | 22.54 | 22.86 |
| | | 1 | 243 | 26.48 | 26.58 | 26.59 | 23.96 | 23.98 | 24.11 | 25.03 | **25.18** | 25.01 | 22.92 | **23.21** | 22.66 |
| | | 1 | 244 | 25.46 | 25.52 | 25.54 | 23.75 | **24.35** | 24.05 | 24.03 | 24.21 | 24.39 | 21.74 | 21.66 | 21.63 |
| | | 120 | 60 | 26.17 | 26.29 | 26.30 | 23.61 | 23.62 | 23.76 | 24.99 | 24.78 | 25.02 | 22.70 | 22.52 | 22.67 |
| | | 243 | 0 | 25.95 | 25.96 | 26.06 | 23.57 | 23.71 | 23.80 | 24.99 | 24.86 | 24.96 | 22.60 | 22.56 | 22.68 |
| | 256QAM | 1 | 0 | 24.25 | 24.23 | 24.28 | 21.27 | 21.54 | 21.64 | 22.73 | 22.82 | 22.89 | 20.28 | 20.68 | 20.78 |
| | | 1 | 1 | **24.30** | 24.18 | 24.26 | 21.37 | **21.89** | 21.55 | 22.74 | 22.39 | 22.71 | 20.32 | 20.72 | 20.34 |
| | | 1 | 243 | 24.24 | 24.23 | 24.25 | 21.80 | 21.42 | 21.77 | 23.16 | **23.22** | 22.96 | 20.69 | **20.83** | 20.32 |
| | | 1 | 244 | 24.23 | 24.23 | 24.23 | 21.71 | 21.75 | 21.42 | 22.82 | 23.02 | 22.76 | 20.65 | 20.56 | 20.45 |
| | | 120 | 60 | 24.24 | 24.24 | 24.22 | 21.67 | 21.54 | 21.76 | 23.02 | 22.88 | 23.01 | 20.58 | 20.44 | 20.52 |
| | | 243 | 0 | 24.00 | 23.98 | 23.99 | 21.56 | 21.59 | 21.69 | 22.93 | 22.80 | 22.80 | 20.58 | 20.50 | 20.56 |

## OUTPUT POWER FOR 5G NR n77 (100.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | ANT 7 | | | ANT 8 | | | ANT 9 | | | ANT 4 | | |
| | | | | 650000 | 656000 | 662000 | 650000 | 656000 | 662000 | 650000 | 656000 | 662000 | 650000 | 656000 | 662000 |
| | | | | 3750.0 | 3840.0 | 3930.0 | 3750.0 | 3840.0 | 3930.0 | 3750.0 | 3840.0 | 3930.0 | 3750.0 | 3840.0 | 3930.0 |
| 100.0 | BPSK | 1 | 0 | 25.29 | 25.19 | 25.25 | 25.52 | 25.91 | 25.56 | 23.80 | 23.56 | 23.65 | 21.12 | 21.79 | 21.67 |
| | | 1 | 1 | 28.58 | 28.56 | 28.68 | 26.02 | **26.50** | 26.12 | 27.15 | 27.02 | 27.24 | 24.67 | 24.73 | 24.85 |
| | | 1 | 271 | 28.64 | 28.65 | **28.70** | **26.50** | 26.42 | 26.39 | 27.11 | 27.34 | **27.40** | 24.97 | **25.00** | 24.98 |
| | | 1 | 272 | 25.27 | 25.31 | 25.37 | 25.96 | 25.79 | 25.76 | 23.76 | 23.99 | 23.98 | 21.44 | 21.73 | 21.54 |
| | | 135 | 67 | 28.57 | 28.59 | 28.61 | 26.37 | 26.08 | 26.45 | **27.40** | 27.09 | 27.34 | 24.97 | 24.69 | 24.98 |
| | | 270 | 0 | 28.22 | 28.22 | 28.28 | 25.78 | 25.60 | 25.81 | 27.09 | 27.00 | 27.11 | 24.58 | 24.55 | 24.72 |
| | QPSK | 1 | 0 | 25.29 | 25.32 | 25.30 | 25.01 | 25.33 | 25.28 | 23.84 | 23.81 | 23.92 | 21.46 | 21.63 | 21.65 |
| | | 1 | 1 | 28.64 | 28.59 | 28.65 | 26.00 | 26.24 | 26.22 | 27.13 | 27.02 | 27.01 | 24.70 | 24.91 | **25.00** |
| | | 1 | 271 | **28.70** | **28.70** | 28.54 | 26.35 | 26.33 | **26.50** | 27.27 | **27.40** | 27.11 | **25.00** | 24.96 | 24.99 |
| | | 1 | 272 | 25.34 | 25.38 | 25.32 | 25.47 | 25.25 | 25.23 | 23.83 | 24.06 | 23.86 | 21.68 | 21.78 | 21.48 |
| | | 135 | 67 | 28.55 | 28.54 | 28.60 | 26.48 | 26.07 | 26.43 | 27.37 | 27.12 | 27.33 | 24.87 | 24.67 | **25.00** |
| | | 270 | 0 | 27.59 | 27.61 | 27.65 | 25.28 | 25.06 | 25.30 | 26.57 | 26.44 | 26.54 | 24.10 | 24.04 | 24.25 |
| | 16QAM | 1 | 0 | 25.51 | 25.45 | 25.49 | 24.22 | 24.44 | 24.46 | 24.28 | 23.70 | 23.99 | 21.67 | 21.73 | 21.62 |
| | | 1 | 1 | 27.99 | 28.06 | 27.90 | 25.00 | **25.68** | 25.40 | 26.07 | 26.44 | 26.35 | 24.05 | 24.43 | 24.37 |
| | | 1 | 271 | **28.16** | **28.16** | 27.93 | 25.37 | 25.58 | 25.42 | **26.73** | 26.67 | 26.60 | 24.42 | **24.67** | 24.50 |
| | | 1 | 272 | 25.53 | 25.58 | 25.57 | 24.20 | 24.45 | 24.65 | 23.95 | 24.38 | 24.13 | 22.04 | 21.98 | 21.64 |
| | | 135 | 67 | 27.81 | 27.81 | 27.86 | 25.29 | 25.01 | 25.31 | 26.55 | 26.41 | 26.57 | 24.11 | 23.96 | 24.26 |
| | | 270 | 0 | 26.52 | 26.52 | 26.55 | 24.31 | 24.14 | 24.25 | 25.55 | 25.38 | 25.49 | 23.04 | 22.94 | 23.19 |
| | 64QAM | 1 | 0 | 25.45 | 25.48 | 25.56 | 23.82 | 23.72 | 23.74 | 24.18 | 23.85 | 24.34 | 21.39 | 21.66 | 21.91 |
| | | 1 | 1 | 26.49 | 26.49 | 26.59 | 23.82 | 24.10 | 23.85 | **25.11** | 25.02 | 24.94 | 22.44 | 22.43 | 22.72 |
| | | 1 | 271 | 26.54 | 26.61 | **26.62** | 23.96 | 24.13 | 24.09 | 25.01 | 24.91 | 25.00 | 23.01 | **23.17** | 23.02 |
| | | 1 | 272 | 25.48 | 25.56 | 25.55 | 24.10 | 24.12 | **24.25** | 24.20 | 24.18 | 24.12 | 21.99 | 22.01 | 21.87 |
| | | 135 | 67 | 26.21 | 26.28 | 26.32 | 23.78 | 23.54 | 23.73 | 25.07 | 24.78 | 24.93 | 22.70 | 22.47 | 22.70 |
| | | 270 | 0 | 26.00 | 25.96 | 26.07 | 23.72 | 23.58 | 23.78 | 25.06 | 24.84 | 24.97 | 22.63 | 22.48 | 22.69 |
| | 256QAM | 1 | 0 | 24.27 | 24.18 | 24.31 | 21.20 | **21.97** | 21.32 | 22.92 | 22.47 | 22.65 | 20.30 | 20.30 | 20.79 |
| | | 1 | 1 | **24.32** | 24.20 | 24.26 | 21.41 | 21.62 | 21.32 | 23.05 | 22.85 | 22.41 | 20.14 | 20.31 | 20.66 |
| | | 1 | 271 | 24.22 | 24.27 | 24.26 | 21.91 | 21.56 | 21.51 | 22.61 | 22.76 | **23.13** | 20.64 | **20.84** | 20.39 |
| | | 1 | 272 | 24.22 | 24.26 | 24.24 | 21.82 | 21.72 | 21.79 | 22.79 | 22.67 | 23.08 | 20.56 | 20.72 | 20.40 |
| | | 135 | 67 | 24.25 | 24.23 | 24.24 | 21.72 | 21.46 | 21.69 | 23.08 | 22.86 | 22.90 | 20.69 | 20.46 | 20.62 |
| | | 270 | 0 | 24.01 | 23.99 | 24.02 | 21.69 | 21.47 | 21.67 | 22.99 | 22.84 | 22.83 | 20.59 | 20.54 | 20.62 |

# 9. CONDUCTED TEST RESULTS

## 9.1. OCCUPIED BANDWIDTH

**RULE PART(S)**

FCC: §2.1049

**LIMITS**

For reporting purposes only.

**TEST PROCEDURE**

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the middle channel in each band. The 99% and -26dB bandwidths was also measured and recorded.

**RESULTS**

There is no limit required and power is the same for low, middle and high channel; therefore, only middle channel was tested except 5G NR n70 where mix of middle/high channels are used. Worst-case plots (highest bandwidth) are reported only.

**LTE BAND 5**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| LTE BAND 5 | 1.4MHz, QPSK | 6/0 | 836.5 | 1.091 | 1.364 |
| | 1.4MHz,16QAM | | | 1.094 | 1.368 |
| | 3MHz, QPSK | 15/0 | | 2.701 | 3.061 |
| | 3MHz, 16QAM | | | 2.707 | 3.075 |
| | 5MHz, QPSK | 25/0 | | 4.500 | 5.077 |
| | 5MHz, 16QAM | | | 4.498 | 5.120 |
| | 10MHz, QPSK | 50/0 | | 8.980 | 9.975 |
| | 10MHz, 16QAM | | | 8.989 | 9.933 |
| | 10MHz, QPSK | 1/0 | | 0.248 | 0.418 |

**5G NR n5**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| 5G NR n5 | 5MHz, BPSK | 25/0 | 836.5 | 4.517 | 5.139 |
| | 5MHz, QPSK | | | 4.483 | 5.087 |
| | 5MHz, 16QAM | | | 4.475 | 5.087 |
| | 10MHz, BPSK | 50/0 | | 8.976 | 9.704 |
| | 10MHz, QPSK | | | 8.965 | 9.660 |
| | 10MHz, 16QAM | | | 8.950 | 9712 |
| | 15MHz, BPSK | 75/0 | | 13.463 | 14.32 |
| | 15MHz, QPSK | | | 13.353 | 14.17 |
| | 15MHz, 16QAM | | | 13.411 | 14.28 |
| | 20MHz, BPSK | 100/0 | | 17.837 | 18.85 |
| | 20MHz, QPSK | | | 17.843 | 18.80 |
| | 20MHz, 16QAM | | | 17.860 | 18.78 |
| | 20MHz, BPSK | 1/0 | | 0.251 | 0.407 |

**LTE BAND 7**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| LTE BAND 7 | 5MHz, QPSK | 25/0 | 2535.0 | 4.502 | 5.169 |
| | 5MHz, 16QAM | | | 4.514 | 5.104 |
| | 10MHz, QPSK | 50/0 | | 8.988 | 9.955 |
| | 10MHz, 16QAM | | | 9.001 | 9.930 |
| | 15MHz, QPSK | 75/0 | | 13.470 | 14.740 |
| | 15MHz, 16QAM | | | 13.467 | 14.790 |
| | 20MHz, QPSK | 100/0 | | 17.936 | 19.730 |
| | 20MHz, 16QAM | | | 17.944 | 19.580 |
| | 20MHz, QPSK | 1/0 | | 0.275 | 0.450 |

**5G NR n7**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| 5G NR n7 | 5MHz, BPSK | 25/0 | 2535.0 | 4.528 | 5.125 |
| | 5MHz, QPSK | | | 4.494 | 5.075 |
| | 5MHz, 16QAM | | | 4.463 | 4.898 |
| | 10MHz, BPSK | 50/0 | | 8.986 | 9.588 |
| | 10MHz, QPSK | | | 8.973 | 9.693 |
| | 10MHz, 16QAM | | | 8.973 | 9.662 |
| | 15MHz, BPSK | 75/0 | | 13.432 | 14.150 |
| | 15MHz, QPSK | | | 13.410 | 14.140 |
| | 15MHz, 16QAM | | | 13.382 | 14.230 |
| | 20MHz, BPSK | 100/0 | | 17.852 | 18.540 |
| | 20MHz, QPSK | | | 17.918 | 18.650 |
| | 20MHz, 16QAM | | | 17.874 | 18.720 |
| | 25MHz, BPSK | 128/0 | | 22.906 | 24.020 |
| | 25MHz, QPSK | | | 22.912 | 24.110 |
| | 25MHz, 16QAM | | | 22.857 | 23.970 |
| | 30MHz, BPSK | 160/0 | | 28.581 | 29.540 |
| | 30MHz, QPSK | | | 28.505 | 29.530 |
| | 30MHz, 16QAM | | | 28.486 | 29.650 |
| | 40MHz, BPSK | 216/0 | | 38.575 | 40.00 |
| | 40MHz, QPSK | | | 38.529 | 40.00 |
| | 40MHz, 16QAM | | | 38.540 | 40.20 |
| | 40MHz, BPSK | 1/0 | | 0.338 | 0.520 |

**LTE BAND 12**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| LTE BAND 12 | 1.4MHz, QPSK | 6/0 | 707.5 | 1.091 | 1.356 |
| | 1.4MHz,16QAM | | | 1.095 | 1.393 |
| | 3MHz, QPSK | 15/0 | | 2.703 | 3.051 |
| | 3MHz, 16QAM | | | 2.701 | 3.049 |
| | 5MHz, QPSK | 25/0 | | 4.497 | 5.120 |
| | 5MHz, 16QAM | | | 4.500 | 5.099 |
| | 10MHz, QPSK | 50/0 | | 8.967 | 9.997 |
| | 10MHz, 16QAM | | | 8.971 | 9.981 |
| | 10MHz, QPSK | 1/0 | | 0.258 | 0.390 |

**5G NR n12**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| 5G NR n12 | 5MHz, BPSK | 25/0 | 707.5 | 4.532 | 5.187 |
| | 5MHz, QPSK | | | 4.534 | 5.192 |
| | 5MHz, 16QAM | | | 4.494 | 5.078 |
| | 10MHz, BPSK | 50/0 | | 8.966 | 9.752 |
| | 10MHz, QPSK | | | 8.958 | 9.731 |
| | 10MHz, 16QAM | | | 8.943 | 9.665 |
| | 15MHz, BPSK | 75/0 | | 13.442 | 14.340 |
| | 15MHz, QPSK | | | 13.427 | 14.320 |
| | 15MHz, 16QAM | | | 13.383 | 14.290 |
| | 15MHz, BPSK | 1/0 | | 0.255 | 0.384 |

**LTE BAND 13**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| LTE BAND 13 | 5MHz, QPSK | 25/0 | 782.0 | 4.508 | 5.086 |
| | 5MHz, 16QAM | | | 4.506 | 5.163 |
| | 10MHz, QPSK | 50/0 | | 8.968 | 9.875 |
| | 10MHz, 16QAM | | | 8.975 | 9.888 |
| | 10MHz, QPSK | 1/0 | | 0.247 | 0.378 |

**LTE BAND 14**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| LTE BAND 14 | 5MHz, QPSK | 25/0 | 793.0 | 4.491 | 5.080 |
| | 5MHz, 16QAM | | | 4.498 | 5.089 |
| | 10MHz, QPSK | 50/0 | | 8.957 | 9.867 |
| | 10MHz, 16QAM | | | 8.963 | 9.965 |
| | 10MHz, QPSK | 1/0 | | 0.241 | 0.420 |

**5G NR n14**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| 5G NR n14 | 5MHz, BPSK | 25/0 | 793.0 | 4.533 | 5.112 |
| | 5MHz, QPSK | | | 4.491 | 5.092 |
| | 5MHz, 16QAM | | | 4.482 | 5.023 |
| | 10MHz, BPSK | 50/0 | | 8.988 | 9.580 |
| | 10MHz, QPSK | | | 8.946 | 9.935 |
| | 10MHz, 16QAM | | | 8.958 | 9.609 |
| | 10MHz, QPSK | 1/0 | | 0.220 | 0.323 |

**LTE BAND 17**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| LTE BAND 17 | 5MHz, QPSK | 25/0 | 710.0 | 4.517 | 5.127 |
| | 5MHz, 16QAM | | | 4.504 | 5.076 |
| | 10MHz, QPSK | 50/0 | | 8.978 | 9.929 |
| | 10MHz, 16QAM | | | 8.986 | 9.968 |
| | 10MHz, QPSK | 1/0 | | 0.253 | 0.397 |

**LTE BAND 25**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| LTE BAND 25 | 1.4MHz, QPSK | 6/0 | 1882.5 | 1.098 | 1.319 |
| | 1.4MHz,16QAM | | | 1.098 | 1.346 |
| | 3MHz, QPSK | 15/0 | | 2.704 | 3.069 |
| | 3MHz, 16QAM | | | 2.707 | 3.069 |
| | 5MHz, QPSK | 25/0 | | 4.498 | 5.091 |
| | 5MHz, 16QAM | | | 4.501 | 5.113 |
| | 10MHz, QPSK | 50/0 | | 8.981 | 9.993 |
| | 10MHz, 16QAM | | | 8.982 | 9.913 |
| | 15MHz, QPSK | 75/0 | | 13.457 | 14.710 |
| | 15MHz, 16QAM | | | 13.481 | 14.760 |
| | 20MHz, QPSK | 100/0 | | 17.932 | 19.610 |
| | 20MHz, 16QAM | | | 17.947 | 19.740 |
| | 20MHz, QPSK | 1/0 | | 0.279 | 0.478 |

**5G NR n25**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| 5G NR n25 | 5MHz, BPSK | 25/0 | 1882.5 | 4.514 | 5.106 |
| | 5MHz, QPSK | | | 4.481 | 5.063 |
| | 5MHz, 16QAM | | | 4.501 | 5.107 |
| | 10MHz, BPSK | 50/0 | | 8.982 | 9.650 |
| | 10MHz, QPSK | | | 8.951 | 9.716 |
| | 10MHz, 16QAM | | | 8.947 | 9.738 |
| | 15MHz, BPSK | 75/0 | | 13.466 | 14.200 |
| | 15MHz, QPSK | | | 13.429 | 14.140 |
| | 15MHz, 16QAM | | | 13.378 | 14.090 |
| | 20MHz, BPSK | 100/0 | | 17.947 | 18.820 |
| | 20MHz, QPSK | | | 17.918 | 18.730 |
| | 20MHz, 16QAM | | | 17.938 | 18.920 |
| | 25MHz, BPSK | 128/0 | | 22.917 | 23.820 |
| | 25MHz, QPSK | | | 22.904 | 23.950 |
| | 25MHz, 16QAM | | | 22.879 | 23.870 |
| | 30MHz, BPSK | 160/0 | | 28.617 | 29.570 |
| | 30MHz, QPSK | | | 28.546 | 29.630 |
| | 30MHz, 16QAM | | | 28.610 | 29.720 |
| | 40MHz, BPSK | 216/0 | | 38.542 | 40.230 |
| | 40MHz, QPSK | | | 38.527 | 40.070 |
| | 40MHz, 16QAM | | | 38.504 | 40.040 |
| | 40MHz, BPSK | 1/0 | | 0.346 | 0.590 |

**LTE BAND 26(FCC PART 90S)**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| LTE BAND 26 | 1.4MHz, QPSK | 6/0 | 819.0 | 1.090 | 1.320 |
| | 1.4MHz,16QAM | | | 1.095 | 1.350 |
| | 3MHz, QPSK | 15/0 | | 2.696 | 3.050 |
| | 3MHz, 16QAM | | | 2.703 | 3.033 |
| | 5MHz, QPSK | 25/0 | | 4.498 | 5.136 |
| | 5MHz, 16QAM | | | 4.503 | 5.095 |
| | 10MHz, QPSK | 50/0 | | 8.973 | 9.958 |
| | 10MHz, 16QAM | | | 8.993 | 9.917 |
| | 10MHz, QPSK | 1/0 | | 0.229 | 0.396 |

**5G NR n26 (FCC PART 90S)**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| 5G NR n26 | 5MHz, BPSK | 25/0 | 819.0 | 4.524 | 5.179 |
| | 5MHz, QPSK | | | 4.490 | 5.116 |
| | 5MHz, 16QAM | | | 4.474 | 5.123 |
| | 10MHz, BPSK | 50/0 | | 8.969 | 9.517 |
| | 10MHz, QPSK | | | 8.924 | 9.734 |
| | 10MHz, 16QAM | | | 8.951 | 9.788 |
| | 10MHz, BPSK | 1/0 | | 0.221 | 0.315 |

**LTE BAND 26 (FCC PART 22H)**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| LTE BAND 26 | 1.4MHz, QPSK | 6/0 | 836.5 | 1.091 | 1.339 |
| | 1.4MHz,16QAM | | | 1.093 | 1.355 |
| | 3MHz, QPSK | 15/0 | | 2.703 | 3.058 |
| | 3MHz, 16QAM | | | 2.702 | 3.046 |
| | 5MHz, QPSK | 25/0 | | 4.503 | 5.152 |
| | 5MHz, 16QAM | | | 4.499 | 5.155 |
| | 10MHz, QPSK | 50/0 | | 8.967 | 9.935 |
| | 10MHz, 16QAM | | | 8.989 | 9.894 |
| | 10MHz, QPSK | 1/0 | | 0.232 | 0.385 |

**5G NR n26 (FCC PART 22H)**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| 5G NR n26 | 5MHz, BPSK | 25/0 | 836.5 | 4.520 | 5.130 |
| | 5MHz, QPSK | | | 4.500 | 5.110 |
| | 5MHz, 16QAM | | | 4.503 | 5.119 |
| | 10MHz, BPSK | 50/0 | | 8.989 | 9.621 |
| | 10MHz, QPSK | | | 8.992 | 9.627 |
| | 10MHz, 16QAM | | | 8.969 | 9.683 |
| | 10MHz, BPSK | 1/0 | | 0.256 | 0.404 |

**LTE BAND 30**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| LTE BAND 30 | 5MHz, QPSK | 25/0 | 2310.0 | 4.501 | 5.134 |
| | 5MHz, 16QAM | | | 4.507 | 5.104 |
| | 10MHz, QPSK | 50/0 | | 8.987 | 9.954 |
| | 10MHz, 16QAM | | | 8.976 | 10.040 |
| | 10MHz, QPSK | 1/0 | | 0.225 | 0.396 |

**5G NR n30**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| 5G NR n30 | 5MHz, BPSK | 25/0 | 2310.0 | 4.529 | 5.144 |
| | 5MHz, QPSK | | | 4.496 | 5.102 |
| | 5MHz, 16QAM | | | 4.495 | 5.075 |
| | 10MHz, BPSK | 50/0 | | 8.983 | 9.613 |
| | 10MHz, QPSK | | | 8.962 | 9.676 |
| | 10MHz, 16QAM | | | 8.970 | 9.756 |
| | 10MHz, BPSK | 1/0 | | 0.225 | 0.318 |

**LTE BAND 41 (FCC)**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| LTE BAND 41 | 5MHz, QPSK | 25/0 | 2593.0 | 4.496 | 5.407 |
| | 5MHz, 16QAM | | | 4.489 | 5.044 |
| | 10MHz, QPSK | 50/0 | | 8.989 | 10.160 |
| | 10MHz, 16QAM | | | 8.985 | 10.790 |
| | 15MHz, QPSK | 75/0 | | 13.456 | 15.260 |
| | 15MHz, 16QAM | | | 13.468 | 14.640 |
| | 20MHz, QPSK | 100/0 | | 17.936 | 19.710 |
| | 20MHz, 16QAM | | | 17.940 | 19.660 |
| | 20MHz, QPSK | 1/0 | | 0.276 | 0.445 |

**5G NR n41**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| 5G NR n41 | 20MHz, BPSK | 50/0 | 2593.0 | 17.917 | 19.572 |
| | 20MHz, QPSK | | | 17.947 | 19.572 |
| | 20MHz, 16QAM | | | 17.958 | 19.572 |
| | 30MHz, BPSK | 75/0 | | 26.857 | 28.511 |
| | 30MHz, QPSK | | | 26.871 | 28.760 |
| | 30MHz, 16QAM | | | 26.886 | 28.718 |
| | 40MHz, BPSK | 100/0 | | 35.803 | 38.130 |
| | 40MHz, QPSK | | | 35.717 | 38.226 |
| | 40MHz, 16QAM | | | 35.706 | 38.240 |
| | 50MHz, BPSK | 128/0 | | 45.769 | 48.230 |
| | 50MHz, QPSK | | | 45.806 | 48.473 |
| | 50MHz, 16QAM | | | 45.677 | 47.660 |
| | 60MHz, BPSK | 162/0 | | 57.852 | 60.489 |
| | 60MHz, QPSK | | | 57.952 | 60.829 |
| | 60MHz, 16QAM | | | 57.962 | 60.949 |
| | 70MHz, BPSK | 180/0 | | 64.405 | 67.090 |
| | 70MHz, QPSK | | | 64.528 | 67.280 |
| | 70MHz, 16QAM | | | 64.456 | 67.090 |
| | 80MHz, BPSK | 216/0 | | 77.008 | 80.714 |
| | 80MHz, QPSK | | | 77.017 | 80.714 |
| | 80MHz, 16QAM | | | 77.023 | 80.714 |
| | 90MHz, BPSK | 243/0 | | 86.434 | 90.301 |
| | 90MHz, QPSK | | | 86.490 | 90.351 |
| | 90MHz, 16QAM | | | 86.490 | 90.351 |
| | 100MHz, BPSK | 270/0 | | 96.202 | 131.058 |
| | 100MHz, QPSK | | | 96.385 | 131.252 |
| | 100MHz, 16QAM | | | 96.398 | 131.252 |
| | 100MHz, BPSK | 1/0 | | 0.595 | 0.917 |

**LTE BAND 48**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| LTE BAND 48 | 5MHz, QPSK | 25/0 | 3625.0 | 4.506 | 5.032 |
| | 5MHz, 16QAM | | | 4.505 | 4.955 |
| | 10MHz, QPSK | 50/0 | | 8.979 | 9.369 |
| | 10MHz, 16QAM | | | 8.923 | 9.385 |
| | 15MHz, QPSK | 75/0 | | 13.357 | 14.640 |
| | 15MHz, 16QAM | | | 13.363 | 14.190 |
| | 20MHz, QPSK | 100/0 | | 17.936 | 19.030 |
| | 20MHz, 16QAM | | | 17.828 | 18.920 |
| | 20MHz, QPSK | 1/0 | | 0.289 | 0.415 |

**LTE BAND 66**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| LTE BAND 66 | 1.4MHz, QPSK | 6/0 | 1745.0 | 1.086 | 1.323 |
| | 1.4MHz,16QAM | | | 1.086 | 1.302 |
| | 3MHz, QPSK | 15/0 | | 2.681 | 2.969 |
| | 3MHz, 16QAM | | | 2.682 | 2.974 |
| | 5MHz, QPSK | 25/0 | | 4.500 | 5.170 |
| | 5MHz, 16QAM | | | 4.511 | 5.172 |
| | 10MHz, QPSK | 50/0 | | 8.976 | 9.880 |
| | 10MHz, 16QAM | | | 8.979 | 9.953 |
| | 15MHz, QPSK | 75/0 | | 13.473 | 14.840 |
| | 15MHz, 16QAM | | | 13.442 | 14.850 |
| | 20MHz, QPSK | 100/0 | | 17.931 | 19.680 |
| | 20MHz, 16QAM | | | 17.914 | 19.620 |
| | 20MHz, QPSK | 1/0 | | 0.283 | 0.440 |

**5G NR n66**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| 5G NR n66 | 5MHz, BPSK | 25/0 | 1745.0 | 4.522 | 5.108 |
| | 5MHz, QPSK | | | 4.546 | 5.134 |
| | 5MHz, 16QAM | | | 4.543 | 5.159 |
| | 10MHz, BPSK | 50/0 | | 8.938 | 9.506 |
| | 10MHz, QPSK | | | 8.934 | 9.648 |
| | 10MHz, 16QAM | | | 8.949 | 9.728 |
| | 15MHz, BPSK | 75/0 | | 13.430 | 14.153 |
| | 15MHz, QPSK | | | 13.432 | 14.338 |
| | 15MHz, 16QAM | | | 13.431 | 14.351 |
| | 20MHz, BPSK | 100/0 | | 17.839 | 18.945 |
| | 20MHz, QPSK | | | 17.824 | 18.930 |
| | 20MHz, 16QAM | | | 17.448 | 18.374 |
| | 30MHz, BPSK | 160/0 | | 28.545 | 29.811 |
| | 30MHz, QPSK | | | 28.558 | 29.884 |
| | 30MHz, 16QAM | | | 28.571 | 29.913 |
| | 40MHz, BPSK | 216/0 | | 38.493 | 40.204 |
| | 40MHz, QPSK | | | 38.570 | 40.263 |
| | 40MHz, 16QAM | | | 38.571 | 40.330 |
| | 40MHz, BPSK | 1/0 | | 0.272 | 0.463 |

**5G NR n70**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| 5G NR n70 | 5MHz, BPSK | 25/0 | 1702.5 | 4.525 | 5.219 |
| | 5MHz, QPSK | | | 4.523 | 5.233 |
| | 5MHz, 16QAM | | | 4.524 | 5.232 |
| | 10MHz, BPSK | 50/0 | | 8.955 | 9.547 |
| | 10MHz, QPSK | | | 8.973 | 9.691 |
| | 10MHz, 16QAM | | | 8.970 | 9.714 |
| | 15MHz, BPSK | 75/0 | | 13.340 | 14.316 |
| | 15MHz, QPSK | | | 13.408 | 14.468 |
| | 15MHz, 16QAM | | | 13.414 | 14.457 |
| | 15MHz, BPSK | 1/0 | | 0.237 | 0.375 |

**LTE BAND 71**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| LTE BAND 71 | 5MHz, QPSK | 25/0 | 680.5 | 4.497 | 5.089 |
| | 5MHz, 16QAM | | | 4.498 | 5.126 |
| | 10MHz, QPSK | 50/0 | | 8.944 | 9.941 |
| | 10MHz, 16QAM | | | 8.964 | 9.919 |
| | 15MHz, QPSK | 75/0 | | 13.434 | 14.710 |
| | 15MHz, 16QAM | | | 13.407 | 14.770 |
| | 20MHz, QPSK | 100/0 | | 17.884 | 19.510 |
| | 20MHz, 16QAM | | | 17.884 | 19.420 |
| | 20MHz, QPSK | 1/0 | | 0.263 | 0.422 |

**5G NR n71**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| 5G NR n71 | 5MHz, BPSK | 25/0 | 680.5 | 4.533 | 5.038 |
| | 5MHz, QPSK | | | 4.531 | 5.104 |
| | 5MHz, 16QAM | | | 4.528 | 5.115 |
| | 10MHz, BPSK | 50/0 | | 8.987 | 9.636 |
| | 10MHz, QPSK | | | 8.979 | 9.754 |
| | 10MHz, 16QAM | | | 8.975 | 9.757 |
| | 15MHz, BPSK | 75/0 | | 13.389 | 14.420 |
| | 15MHz, QPSK | | | 13.399 | 14.090 |
| | 15MHz, 16QAM | | | 13.376 | 14.230 |
| | 20MHz, BPSK | 100/0 | | 17.756 | 18.670 |
| | 20MHz, QPSK | | | 17.798 | 18.76 |
| | 20MHz, 16QAM | | | 17.835 | 18.870 |
| | 20MHz, BPSK | 1/0 | | 0.262 | 0.419 |

**5G NR n77(FCC Part 27 3450-3550MHz)**

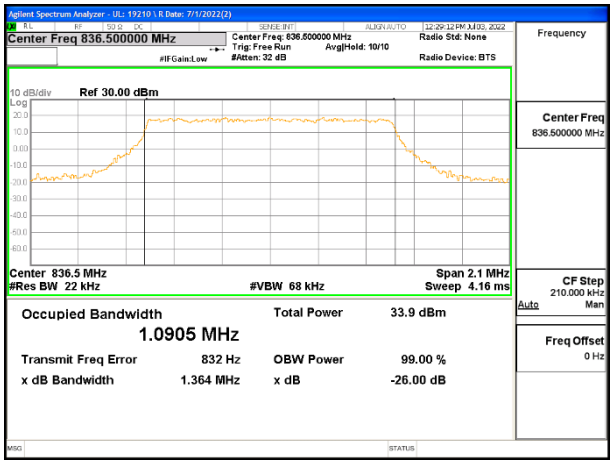
| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| 5G NR n77 (FCC Part 27 3450-3550MHz) | 10MHz, BPSK | 24/0 | 3500 | 8.632 | 9.928 |
| | 10MHz, QPSK | | | 8.622 | 9.845 |
| | 10MHz, 16QAM | | | 8.602 | 9.725 |
| | 15MHz, BPSK | 36/0 | | 12.925 | 14.330 |
| | 15MHz, QPSK | | | 12.929 | 14.400 |
| | 15MHz, 16QAM | | | 12.920 | 14.500 |
| | 20MHz, BPSK | 50/0 | | 17.797 | 19.210 |
| | 20MHz, QPSK | | | 17.839 | 19.210 |
| | 20MHz, 16QAM | | | 17.804 | 19.090 |
| | 30MHz, BPSK | 75/0 | | 26.787 | 28.710 |
| | 30MHz, QPSK | | | 26.695 | 28.460 |
| | 30MHz, 16QAM | | | 26.702 | 28.630 |
| | 40MHz, BPSK | 100/0 | | 35.706 | 37.860 |
| | 40MHz, QPSK | | | 35.681 | 38.110 |
| | 40MHz, 16QAM | | | 35.646 | 37.940 |
| | 50MHz, BPSK | 128/0 | | 45.541 | 48.230 |
| | 50MHz, QPSK | | | 45.543 | 47.750 |
| | 50MHz, 16QAM | | | 45.535 | 48.030 |
| | 60MHz, BPSK | 162/0 | | 57.761 | 60.390 |
| | 60MHz, QPSK | | | 57.651 | 60.450 |
| | 60MHz, 16QAM | | | 57.739 | 60.650 |
| | 70MHz, BPSK | 180/0 | | 64.154 | 67.090 |
| | 70MHz, QPSK | | | 64.123 | 67.340 |
| | 70MHz, 16QAM | | | 64.177 | 66.990 |
| | 80MHz, BPSK | 216/0 | | 77.114 | 79.820 |
| | 80MHz, QPSK | | | 76.965 | 79.960 |
| | 80MHz, 16QAM | | | 77.022 | 80.030 |
| | 90MHz, BPSK | 243/0 | | 86.905 | 90.700 |
| | 90MHz, QPSK | | | 86.798 | 90.770 |
| | 90MHz, 16QAM | | | 86.584 | 90.680 |
| | 100MHz, BPSK | 270/0 | | 96.444 | 100.50 |
| | 100MHz, QPSK | | | 96.125 | 100.40 |
| | 100MHz, 16QAM | | | 96.093 | 100.40 |
| | 100MHz, BPSK | 1/0 | | 0.593 | 0.973 |

**5G NR n77(FCC Part 27 3700-3980MHz)**

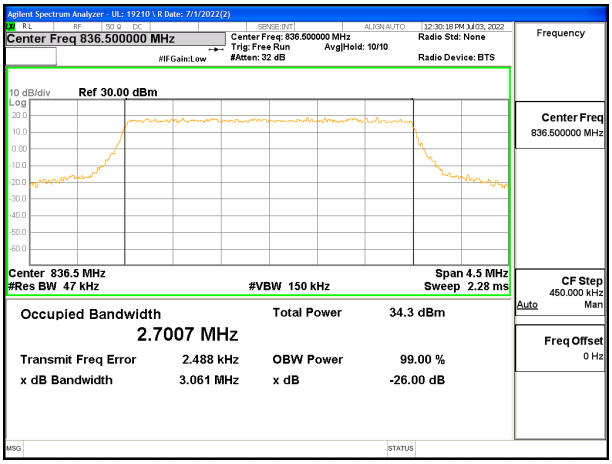
| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| 5G NR n77 (FCC Part 27 3700-3980MHz) | 5MHz, BPSK | 10/0 | 3840.0 | 8.626 | 9.772 |
| | 5MHz, QPSK | | | 8.578 | 9.640 |
| | 5MHz, 16QAM | | | 8.577 | 9.530 |
| | 10MHz, BPSK | 24/0 | | 12.915 | 14.440 |
| | 10MHz, QPSK | | | 12.853 | 14.080 |
| | 10MHz, 16QAM | | | 12.853 | 14.330 |
| | 15MHz, BPSK | 36/0 | | 17.848 | 19.120 |
| | 15MHz, QPSK | | | 17.841 | 19.330 |
| | 15MHz, 16QAM | | | 17.855 | 19.360 |
| | 20MHz, BPSK | 50/0 | | 26.784 | 28.410 |
| | 20MHz, QPSK | | | 26.735 | 28.550 |
| | 20MHz, 16QAM | | | 26.743 | 28.570 |
| | 40MHz, BPSK | 100/0 | | 35.675 | 37.840 |
| | 40MHz, QPSK | | | 35.760 | 37.950 |
| | 40MHz, 16QAM | | | 35.696 | 37.770 |
| | 50MHz, BPSK | 128/0 | | 45.627 | 48.070 |
| | 50MHz, QPSK | | | 45.603 | 47.850 |
| | 50MHz, 16QAM | | | 45.637 | 47.980 |
| | 60MHz, BPSK | 162/0 | | 57.874 | 60.240 |
| | 60MHz, QPSK | | | 57.832 | 60.480 |
| | 60MHz, 16QAM | | | 57.845 | 60.800 |
| | 70MHz, BPSK | 180/0 | | 64.336 | 67.380 |
| | 70MHz, QPSK | | | 64.198 | 67.150 |
| | 70MHz, 16QAM | | | 64.318 | 67.390 |
| | 80MHz, BPSK | 216/0 | | 77.202 | 80.540 |
| | 80MHz, QPSK | | | 77.289 | 80.530 |
| | 80MHz, 16QAM | | | 77.241 | 80.560 |
| | 90MHz, BPSK | 243/0 | | 87.080 | 91.000 |
| | 90MHz, QPSK | | | 87.159 | 91.050 |
| | 90MHz, 16QAM | | | 87.053 | 90.880 |
| | 100MHz, BPSK | 270/0 | | 96.418 | 100.60 |
| | 100MHz, QPSK | | | 96.589 | 100.60 |
| | 100MHz, 16QAM | | | 96.447 | 100.60 |
| | 100MHz, BPSK | 1/0 | | 0.596 | 0.959 |

## 9.1.1. LTE BAND 5 AND 5G NR n5

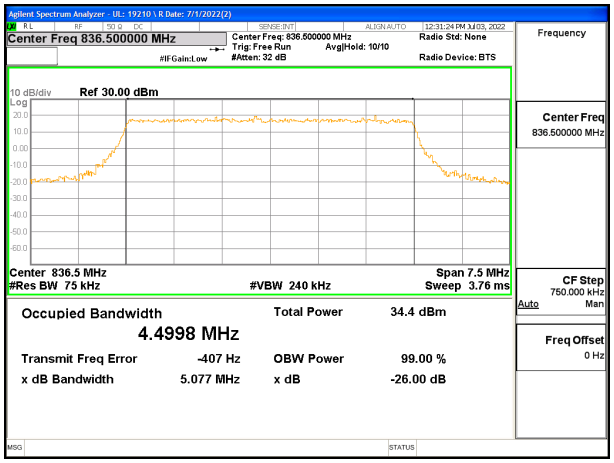
## LTE BAND 5



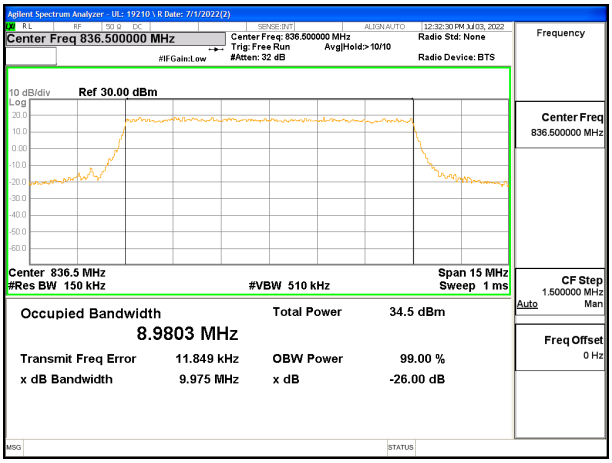

LTE B5 1.4MHz QPSK Middle Channel RB6-0



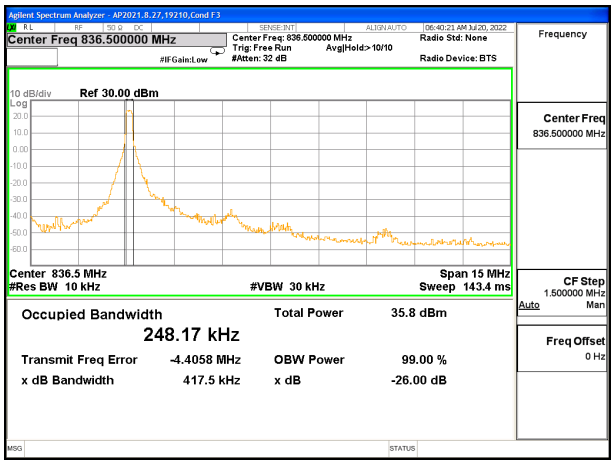

LTE B5 3MHz QPSK Middle Channel RB15-0




LTE B5 5MHz QPSK Middle Channel RB25-0

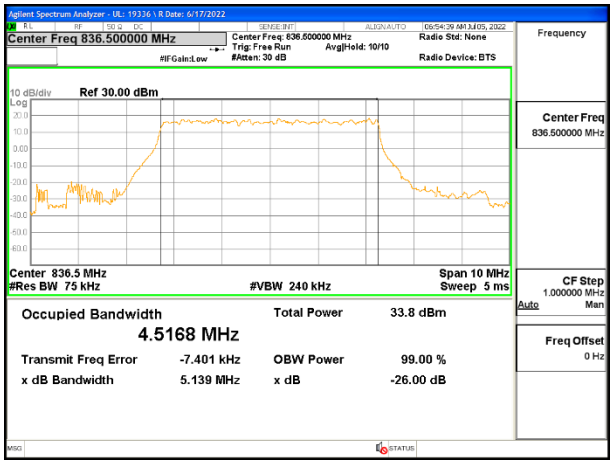



LTE B5 10MHz QPSK Middle Channel RB50-0

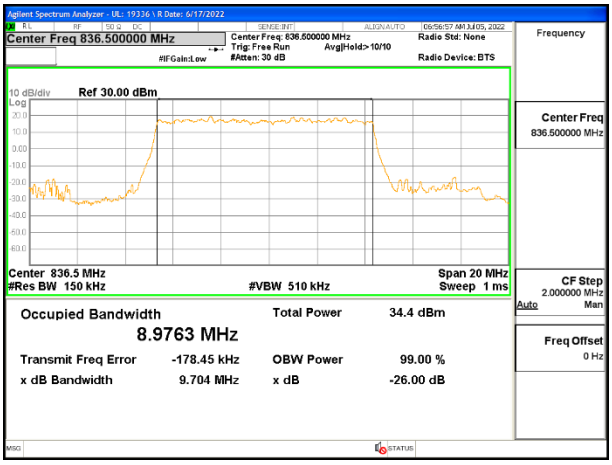



LTE B5 10MHz QPSK Middle Channel RB1-0 RBW

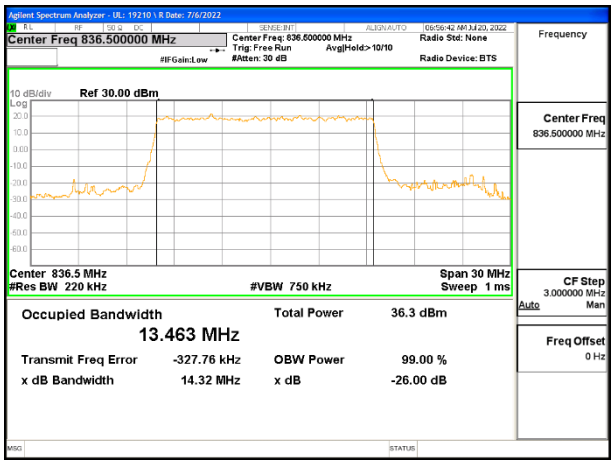
## 5G NR n5



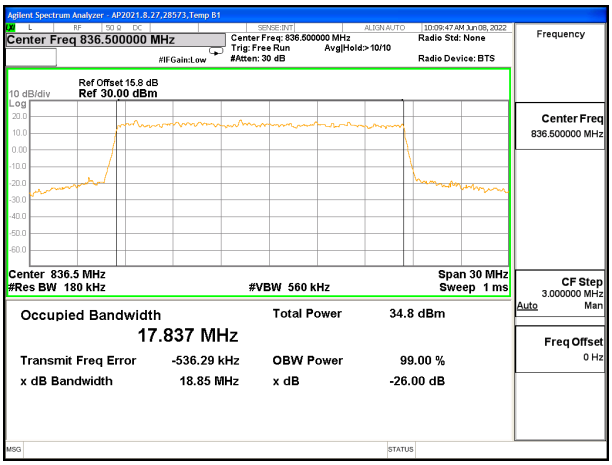

5G NR n5 5MHz BPSK Middle Channel RB25-0



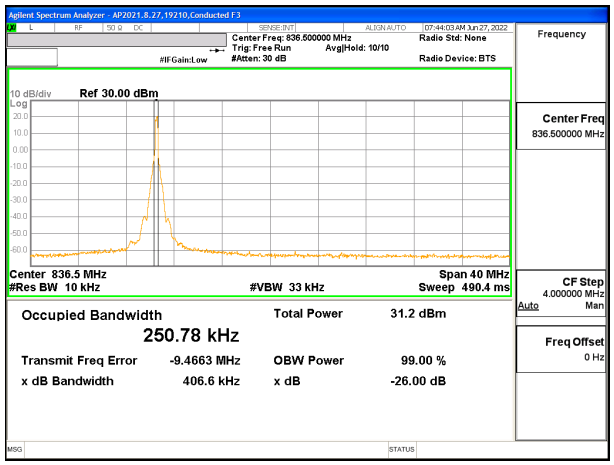

5G NR n5 10MHz BPSK Middle Channel RB50-0




5G NR n5 15MHz BPSK Middle Channel RB75-0 RBW



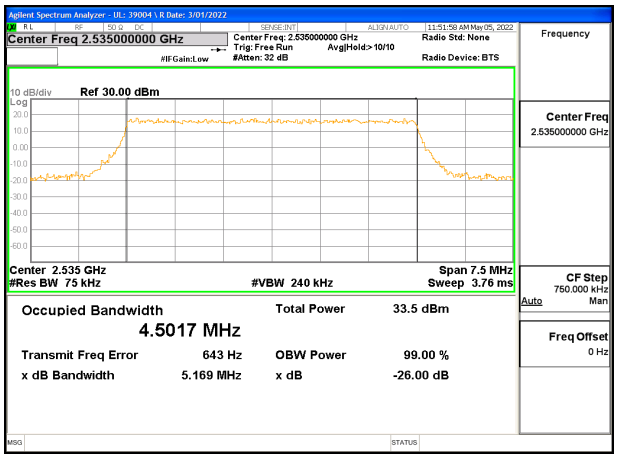

5G NR n5 20MHz BPSK Middle Channel RB100-0



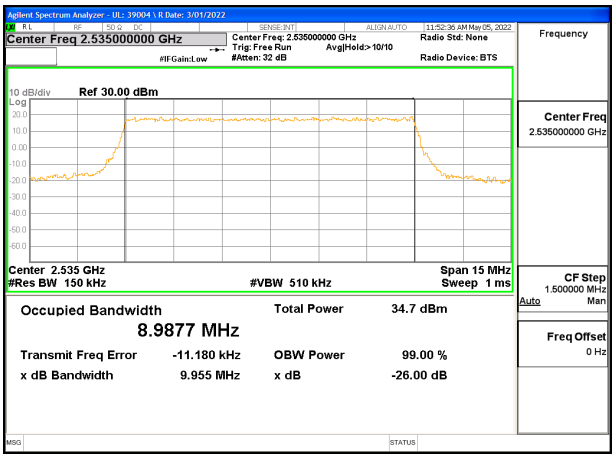

5G NR n5 20MHz BPSK Middle Channel RB1-0

## 9.1.2. LTE BAND AND 5G NR n7

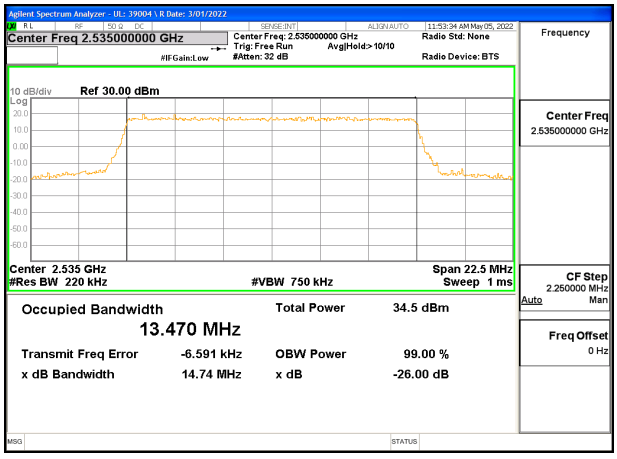
### LTE BAND 7



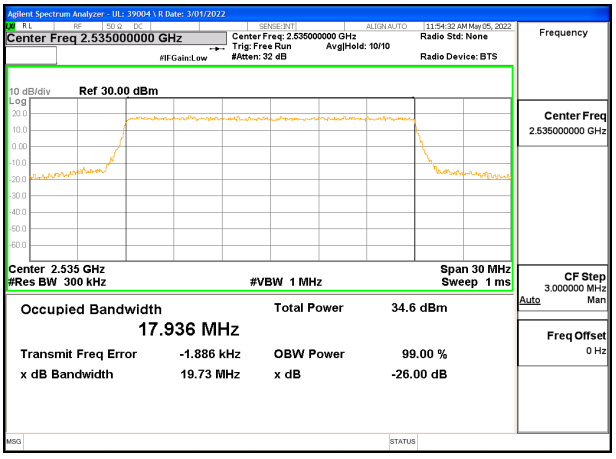

LTE B7 5MHz QPSK Middle Channel RB25-0



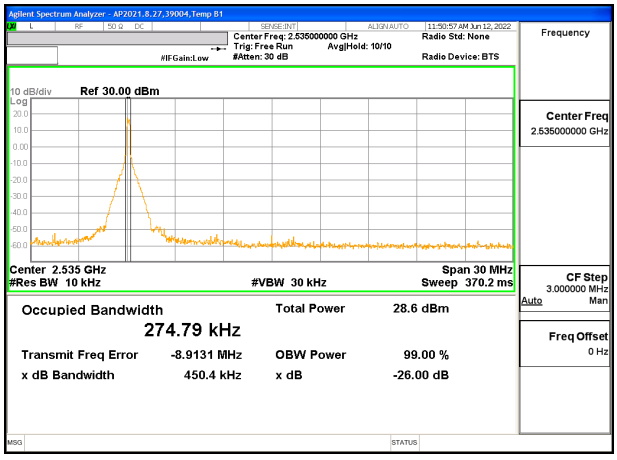

LTE B7 10MHz QPSK Middle Channel RB50-0




LTE B7 15MHz QPSK Middle Channel RB75-0

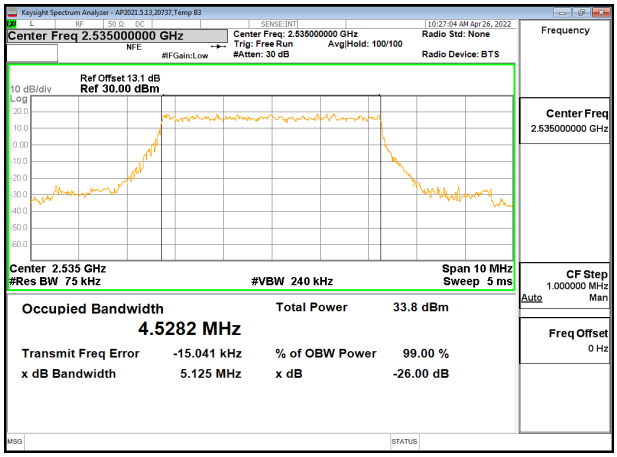



LTE B7 20MHz QPSK Middle Channel RB100-0

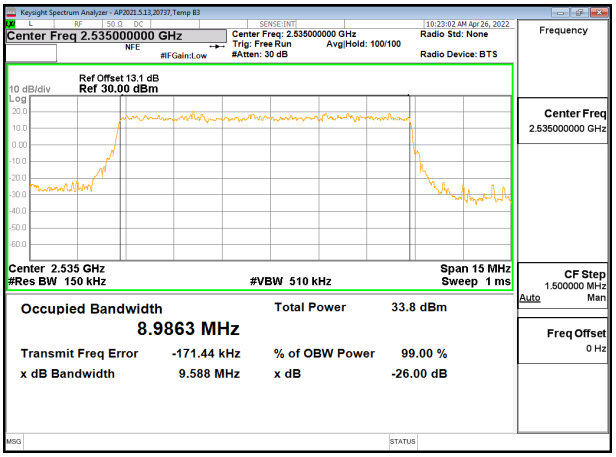



LTE B7 20MHz QPSK Middle Channel RB1-0

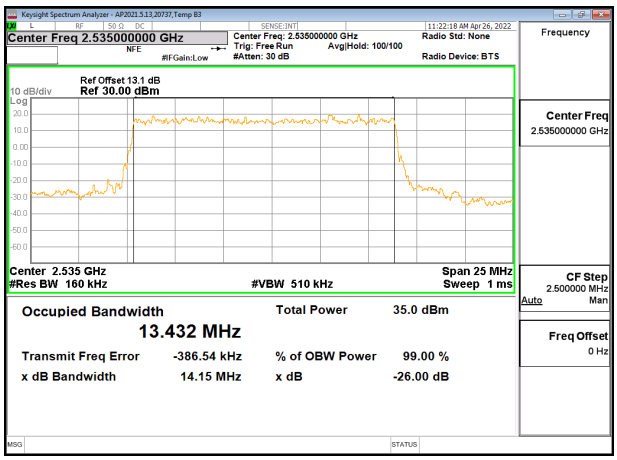
## 5G NR n7



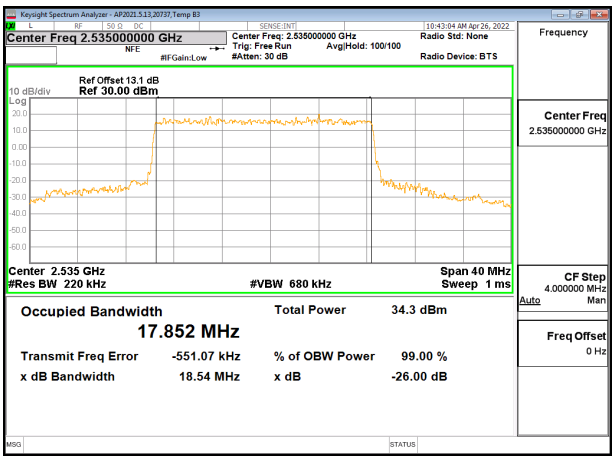

5G NR n7 5MHz BPSK Middle Channel RB25-0



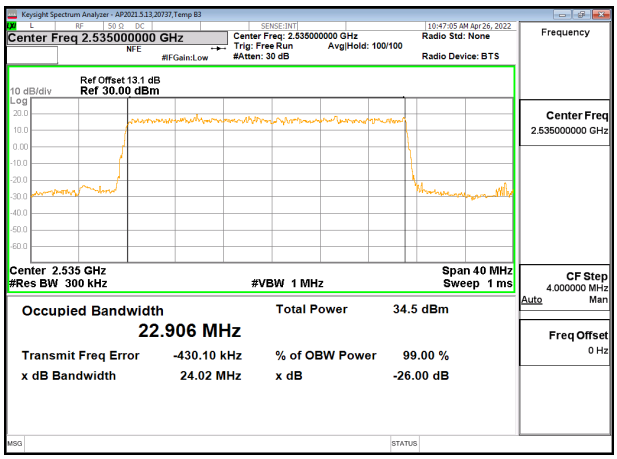

5G NR n7 10MHz BPSK Middle Channel RB50-0



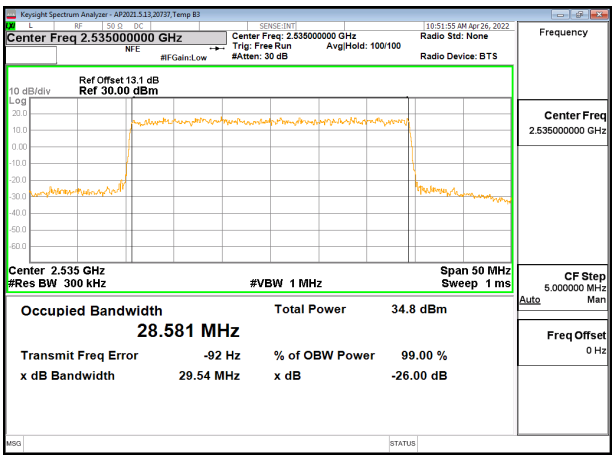

5G NR n7 15MHz BPSK Middle Channel RB75-0



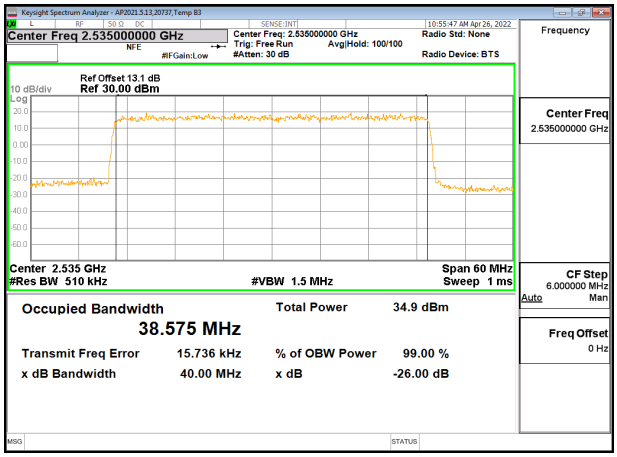

5G NR n7 20MHz BPSK Middle Channel RB100-0



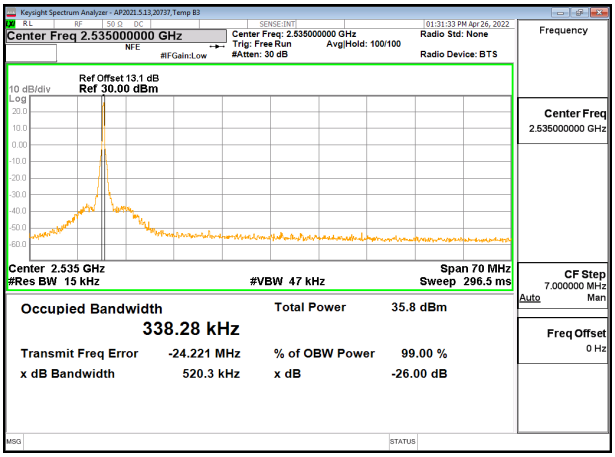

5G NR n7 25MHz BPSK Middle Channel RB128-0




5G NR n7 30MHz BPSK Middle Channel RB160-0



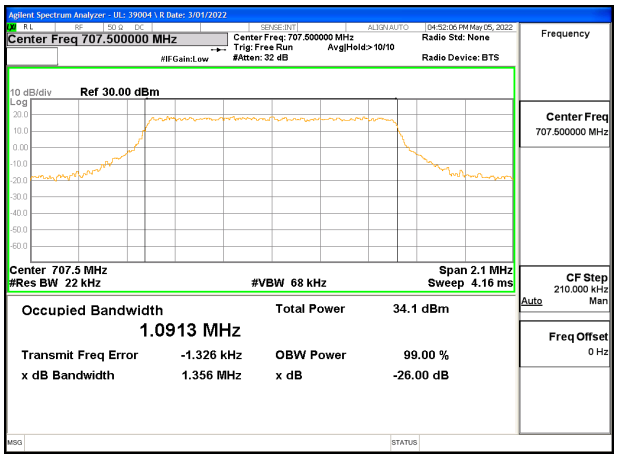

5G NR n7 40MHz BPSK Middle Channel RB216-0



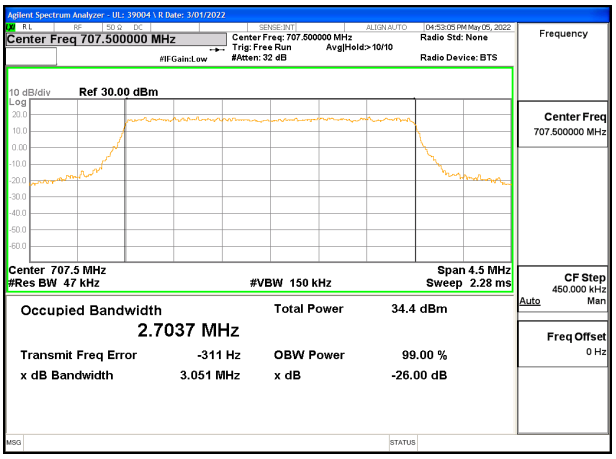

5G NR n7 40MHz BPSK Middle Channel RB1-0

## 9.1.3. LTE BAND 12 AND 5G NR n12

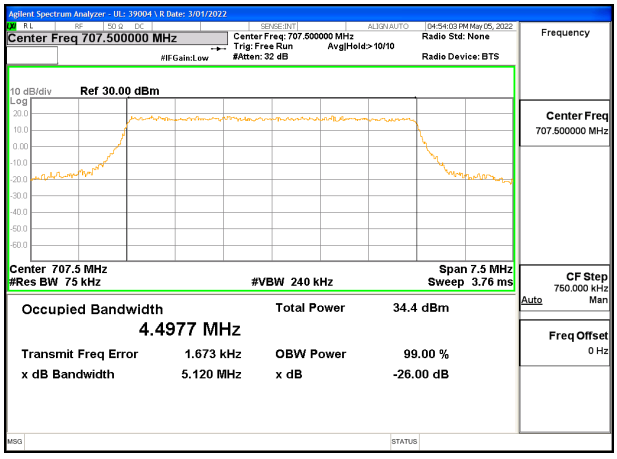
### LTE BAND 12



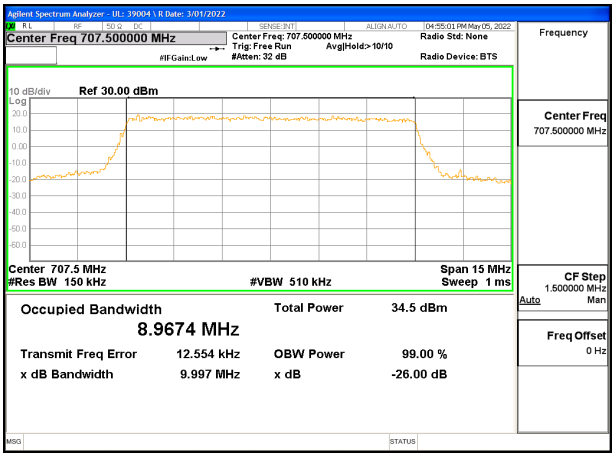

LTE B12 1.4MHz QPSK Middle Channel RB6-0



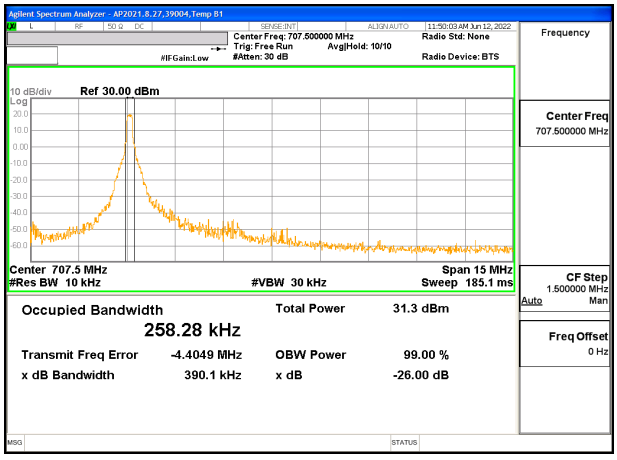

LTE B12 3MHz QPSK Middle Channel RB15-0




LTE B12 5MHz QPSK Middle Channel RB25-0

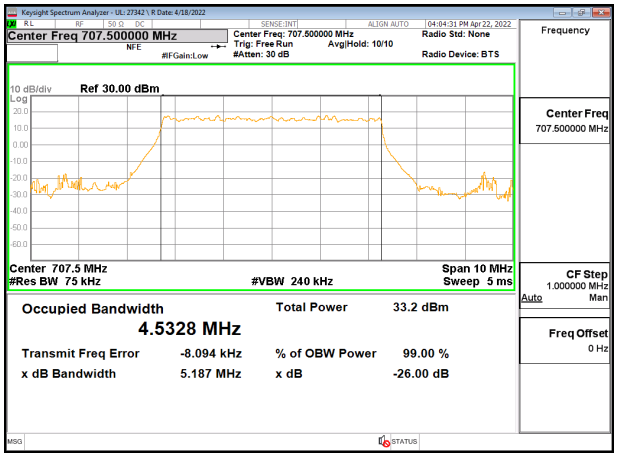



LTE B12 10MHz QPSK Middle Channel RB50-0

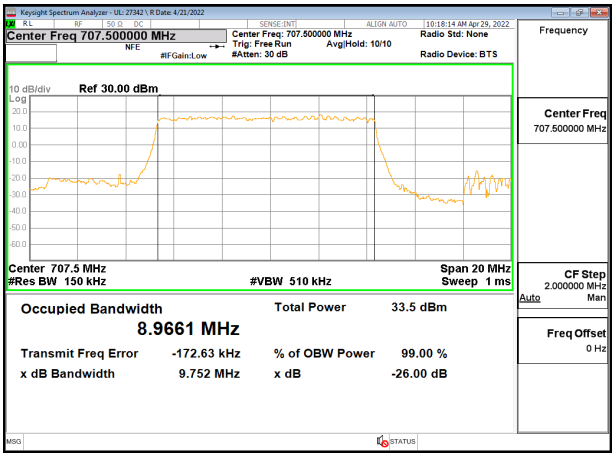



LTE B12 10MHz QPSK Middle Channel RB1-0

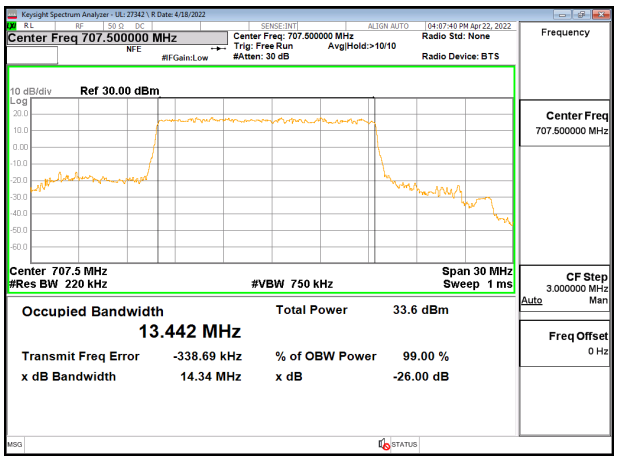
## 5G NR n12



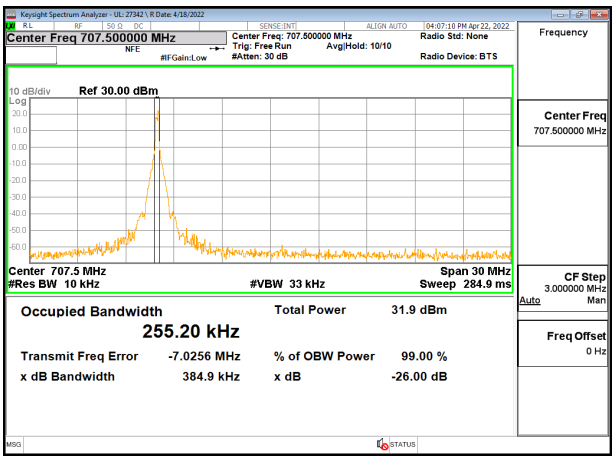

5G NR n12 5MHz BPSK Middle Channel RB25-0




5G NR n12 10MHz BPSK Middle Channel RB50-0

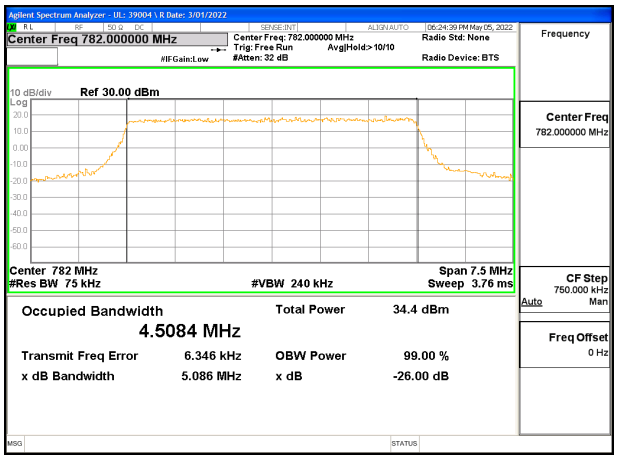



5G NR n12 15MHz BPSK Middle Channel RB75-0

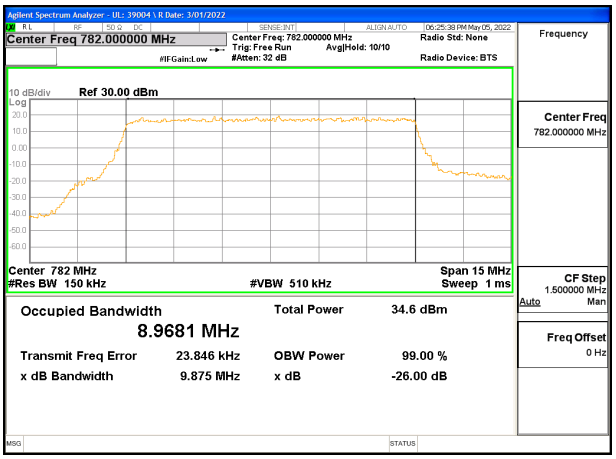



5G NR n12 15MHz BPSK Middle Channel RB1-0

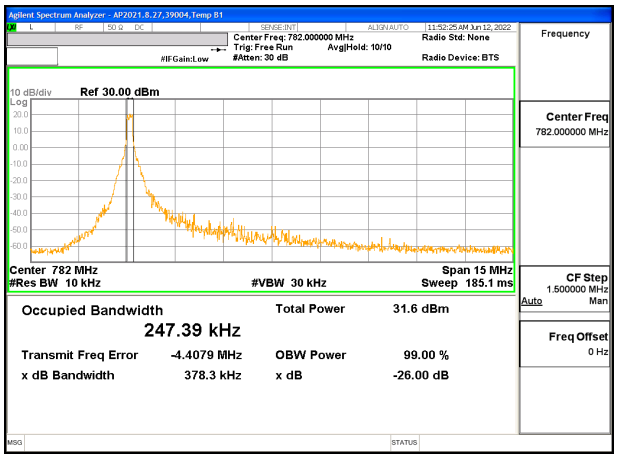
## 9.1.4. LTE BAND 13




LTE B13 5MHz QPSK Middle Channel RB25-0



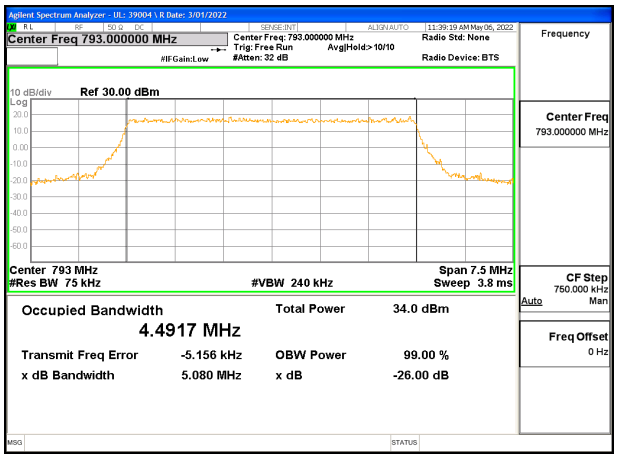

LTE B13 10MHz QPSK Middle Channel RB50-0



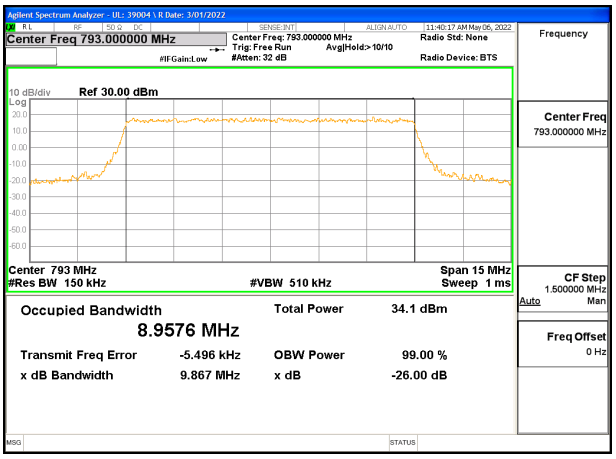

LTE B13 10MHz QPSK Middle Channel RB1-0

## 9.1.5. LTE BAND 14 AND 5G NR n14

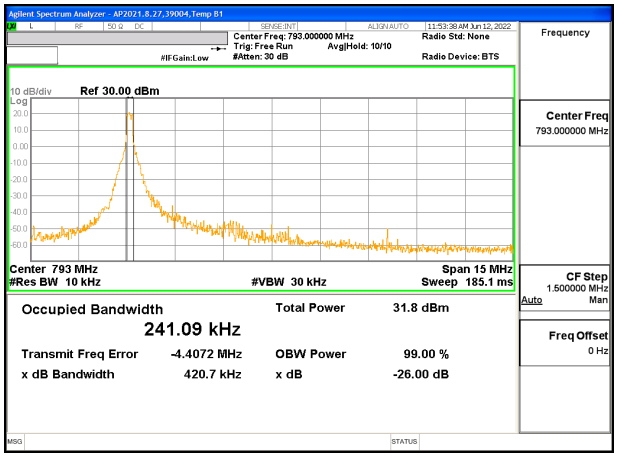
### LTE BAND 14




LTE B14 5MHz QPSK Middle Channel RB25-0

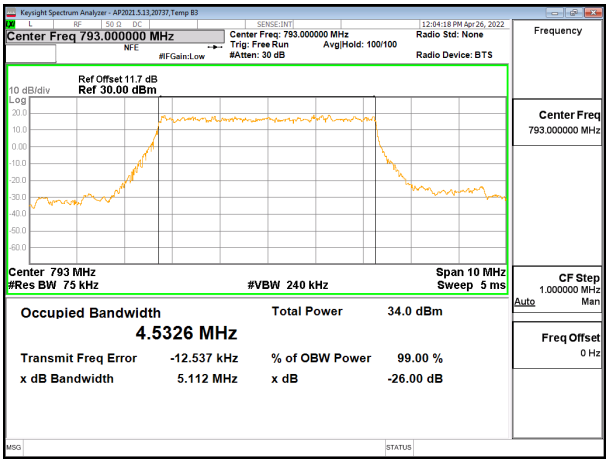



LTE B14 10MHz QPSK Middle Channel RB50-0

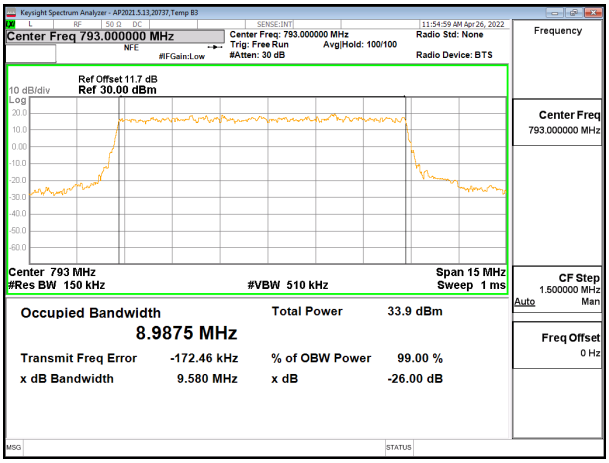



LTE B14 10MHz QPSK Middle Channel RB1-0

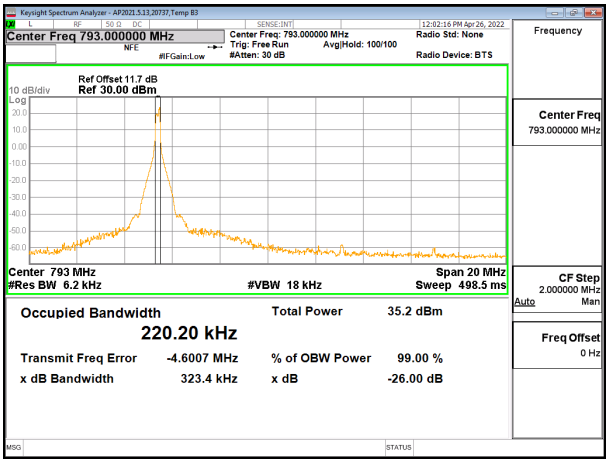
## 5G NR n14




5G NR n14 5MHz BPSK Middle Channel RB25-0

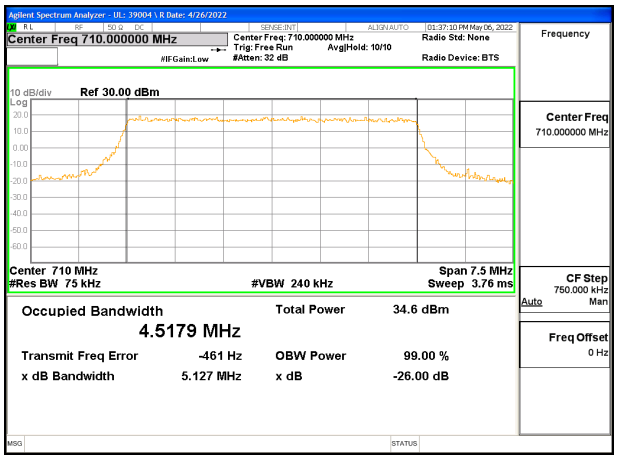



5G NR n14 10MHz BPSK Middle Channel RB50-0

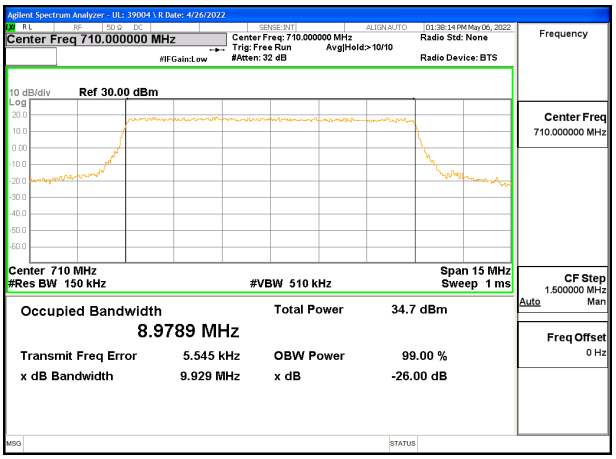



5G NR n14 10MHz BPSK Middle Channel RB1-0

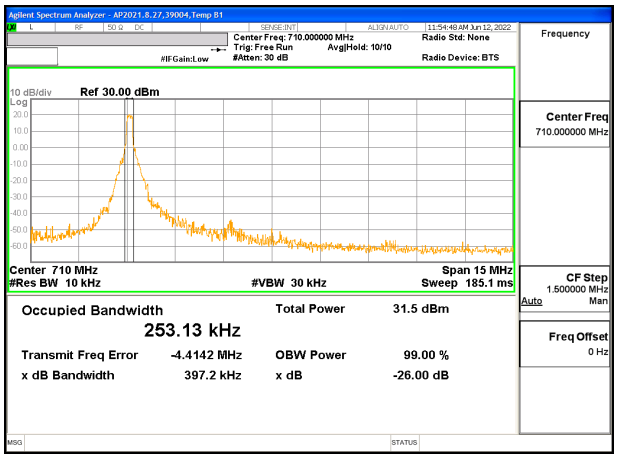
## 9.1.6. LTE BAND 17




LTE B17 5MHz QPSK Middle Channel RB25-0



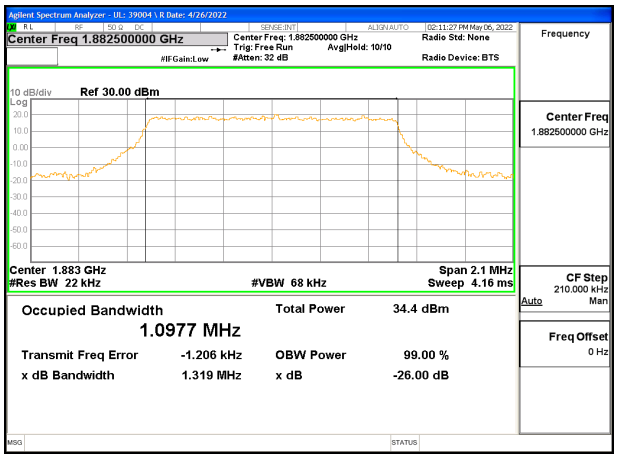

LTE B17 10MHz QPSK Middle Channel RB50-0



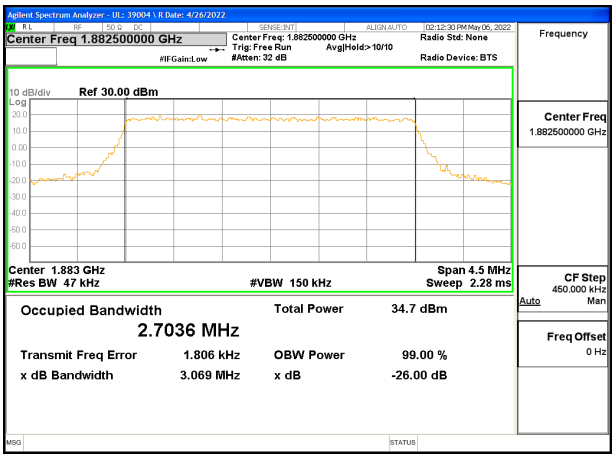

LTE B17 10MHz QPSK Middle Channel RB1-0

## 9.1.7. LTE BAND 25 AND 5G NR n25

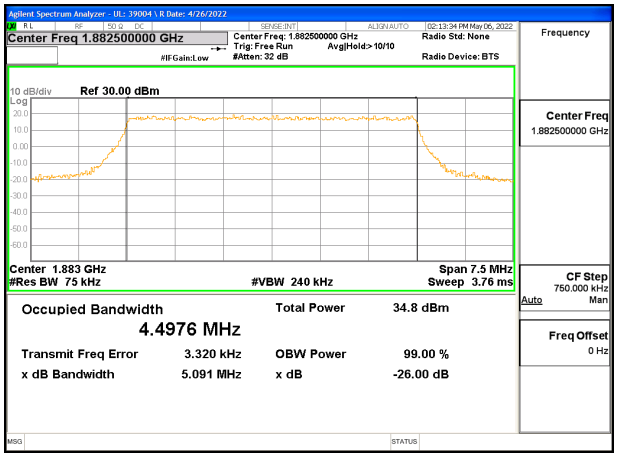
### LTE BAND 25



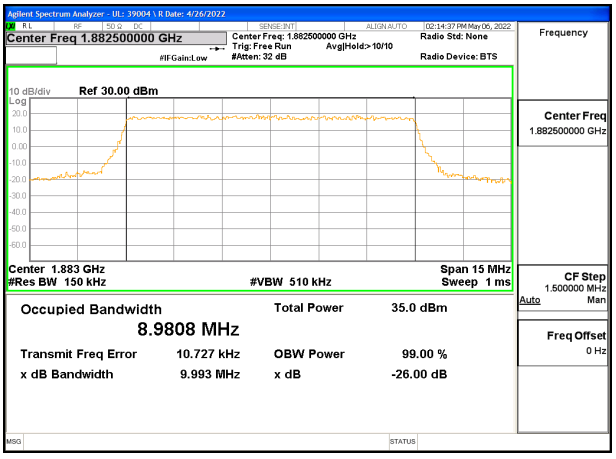

LTE B25 1.4MHz QPSK Middle Channel RB6-0



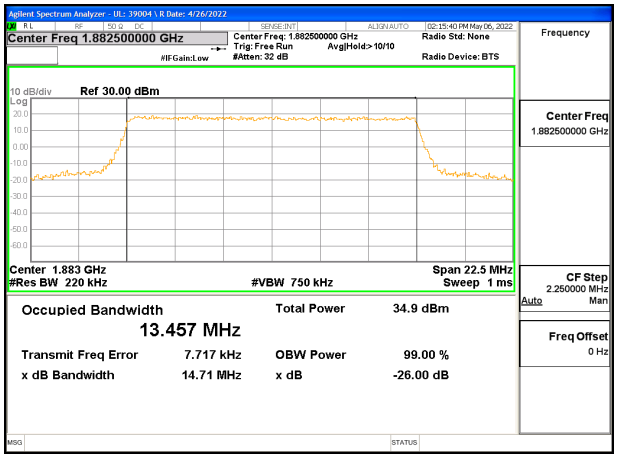

LTE B25 3MHz QPSK Middle Channel RB15-0



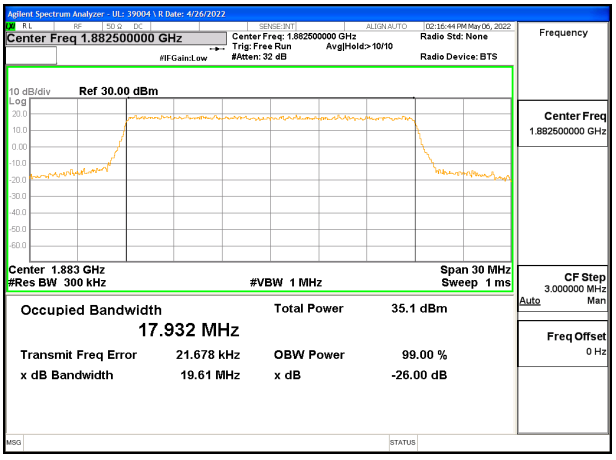

LTE B25 5MHz QPSK Middle Channel RB25-0



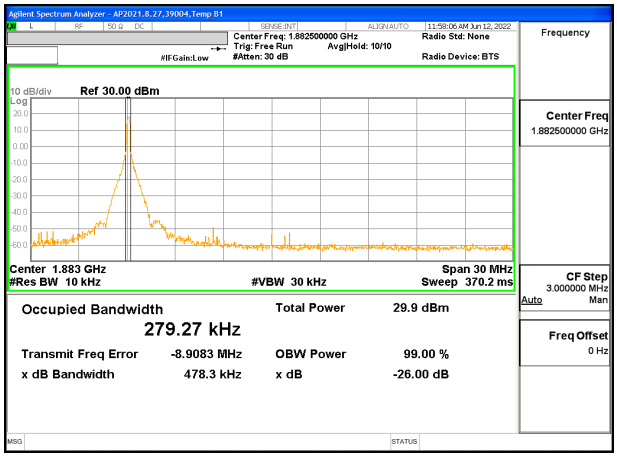

LTE B25 10MHz QPSK Middle Channel RB50-0




LTE B25 15MHz QPSK Middle Channel RB75-0

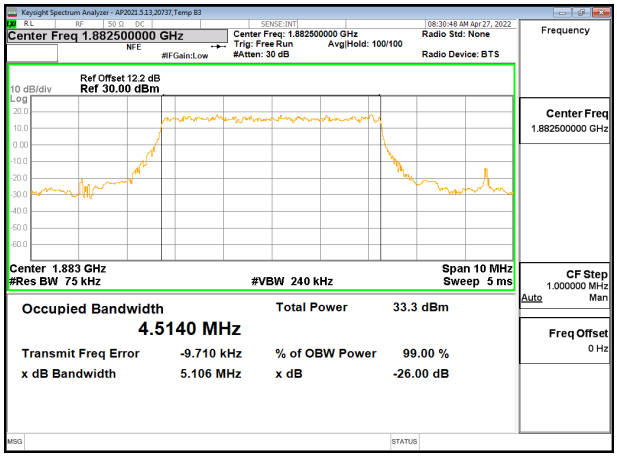



LTE B25 20MHz QPSK Middle Channel RB100-0

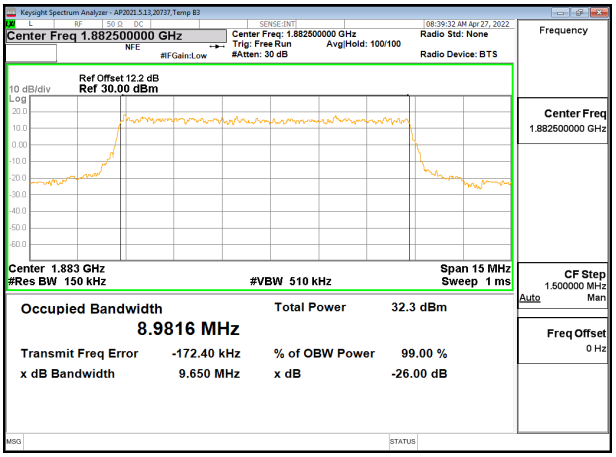



LTE B25 20MHz QPSK Middle Channel RB1-0

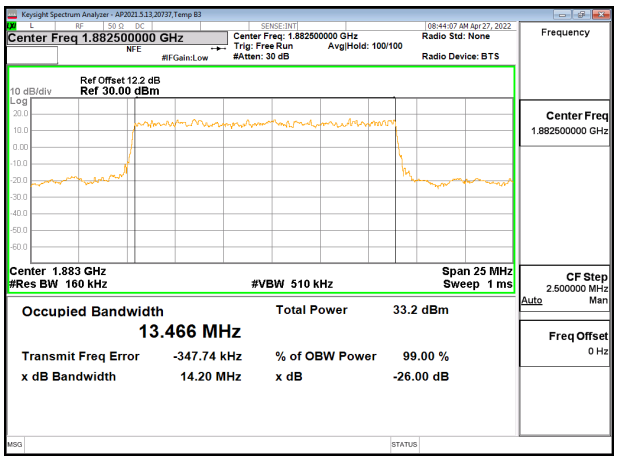
## 5G NR n25



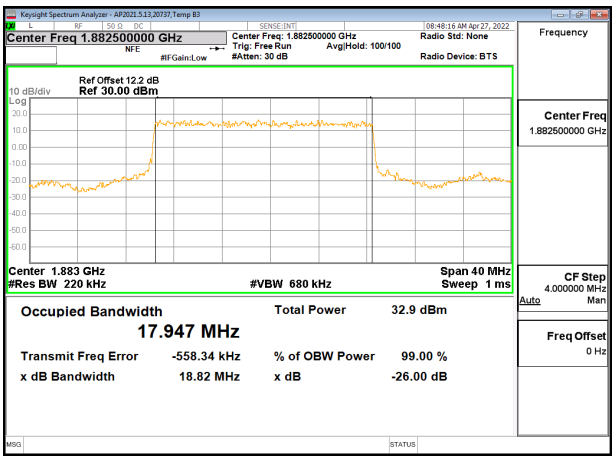

5G NR n25 5MHz BPSK Middle Channel RB25-0



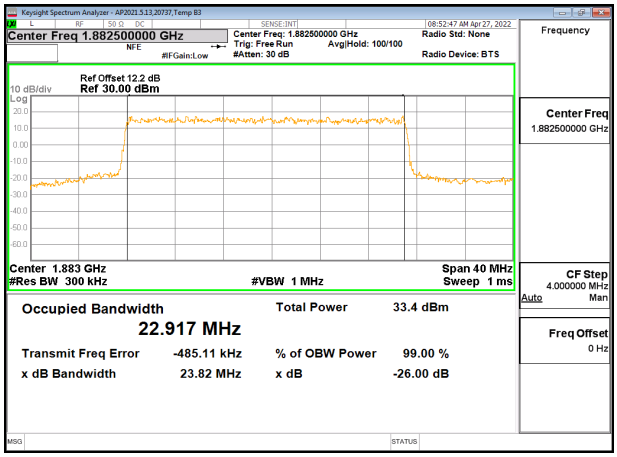

5G NR n25 10MHz BPSK Middle Channel RB50-0



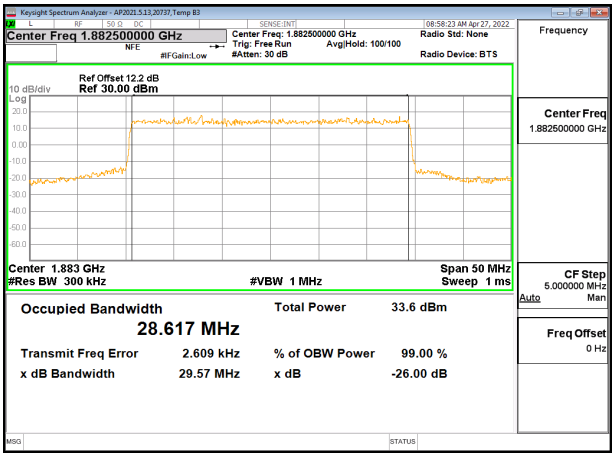

5G NR n25 15MHz BPSK Middle Channel RB75-0



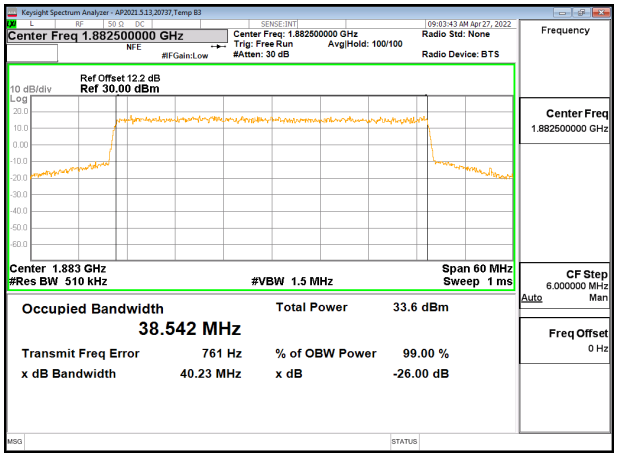

5G NR n25 20MHz BPSK Middle Channel RB100-0



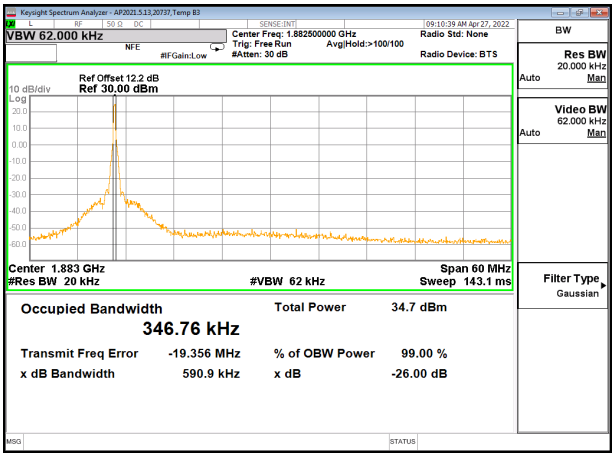

5G NR n25 25MHz BPSK Middle Channel RB128-0




5G NR n25 30MHz BPSK Middle Channel RB160-0



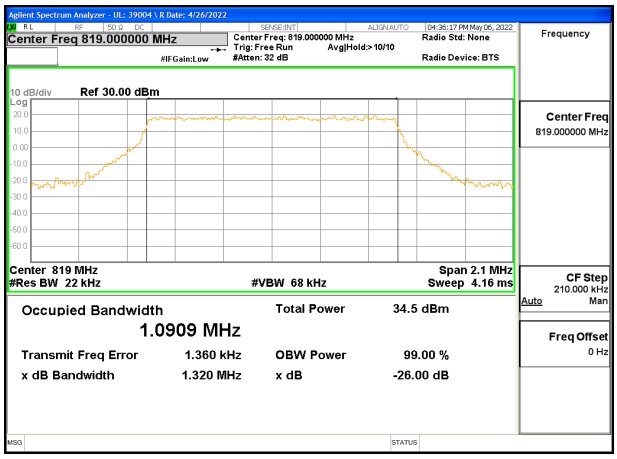

5G NR n25 40MHz BPSK Middle Channel RB216-0



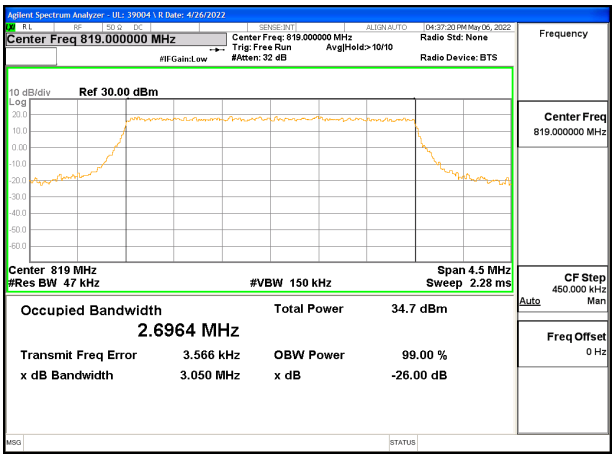

5G NR n25 40MHz BPSK Middle Channel RB1-0

## 9.1.8. LTE BAND 26 AND 5G NR n26 (FCC PART 90S)

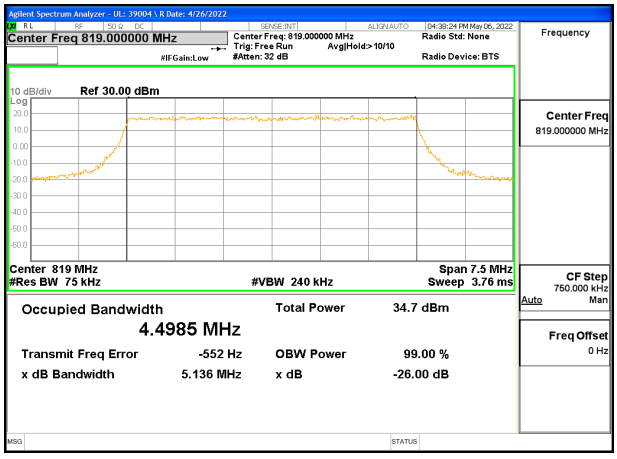
### LTE BAND 26



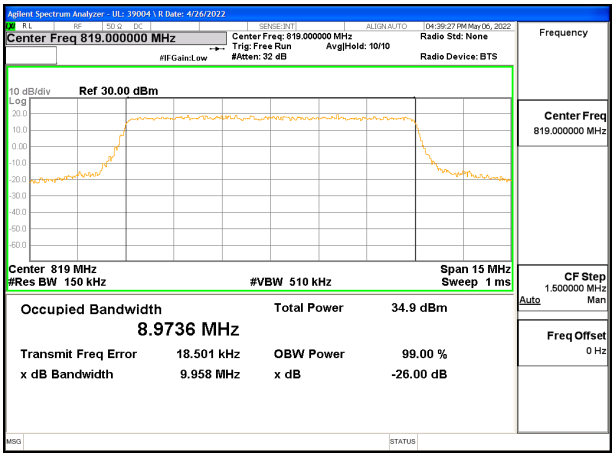

LTE B26 1.4MHz QPSK Middle Channel RB6-0



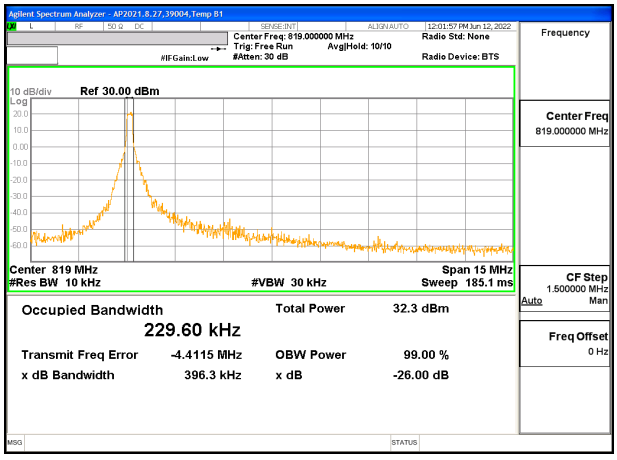

LTE B26 3MHz QPSK Middle Channel RB15-0




LTE B26 5MHz QPSK Middle Channel RB25-0

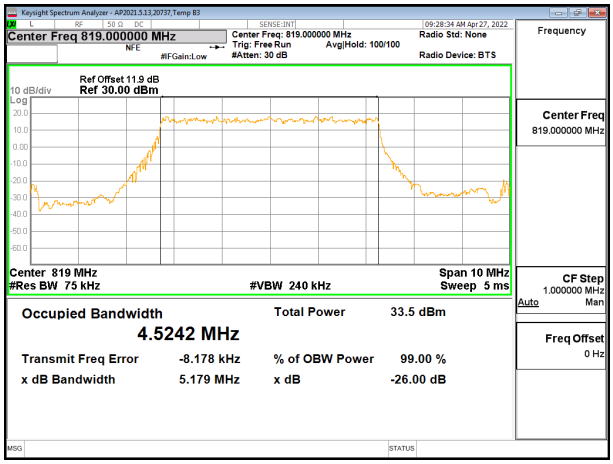



LTE B26 10MHz QPSK Middle Channel RB50-0

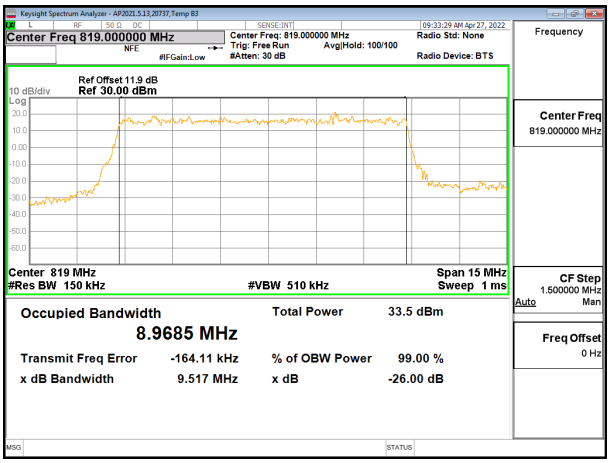



LTE B26 10MHz QPSK Middle Channel RB1-0

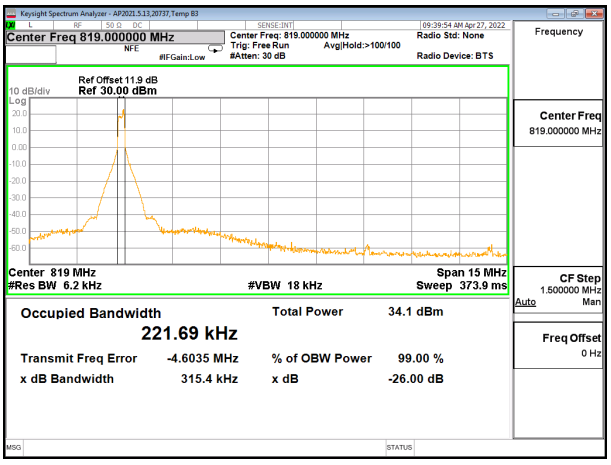
## 5G NR n26




5G NR n26 90S 5MHz BPSK Middle Channel RB24-0



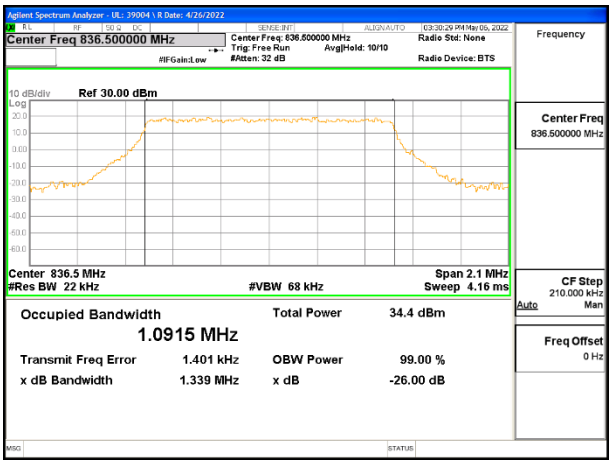

5G NR n26 90S 10MHz BPSK Middle Channel RB50-0



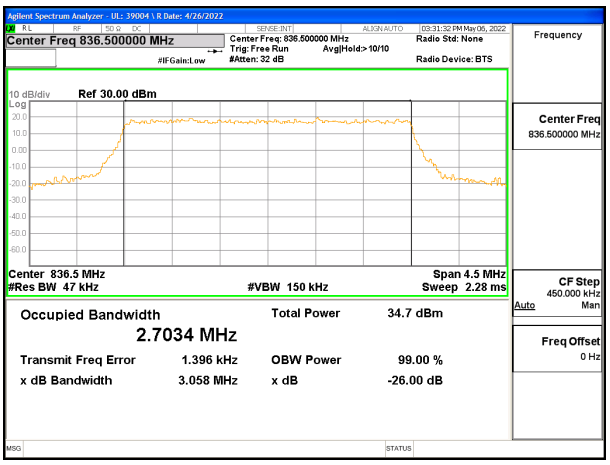

5G NR n26 90S 10MHz BPSK Channel RB1-0

## 9.1.9. LTE BAND 26 AND 5G NR n26 (FCC PART 22H)

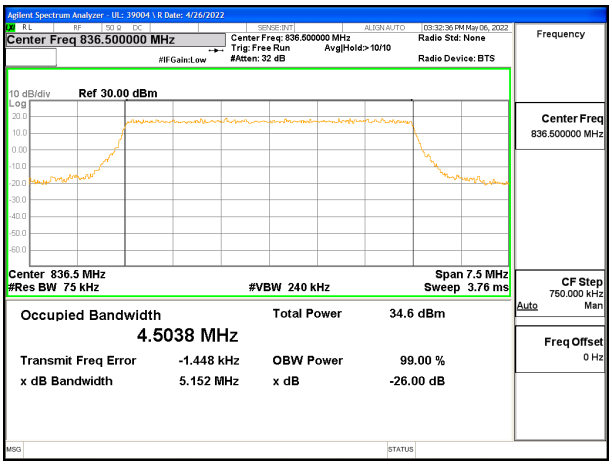
### LTE BAND 26



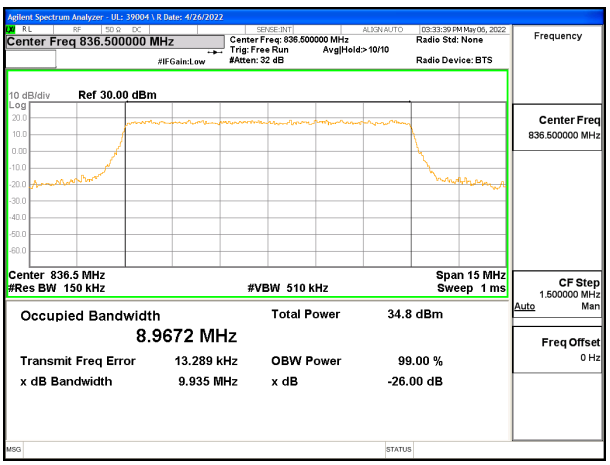

LTE B26 1.4MHz QPSK Middle Channel RB6-0



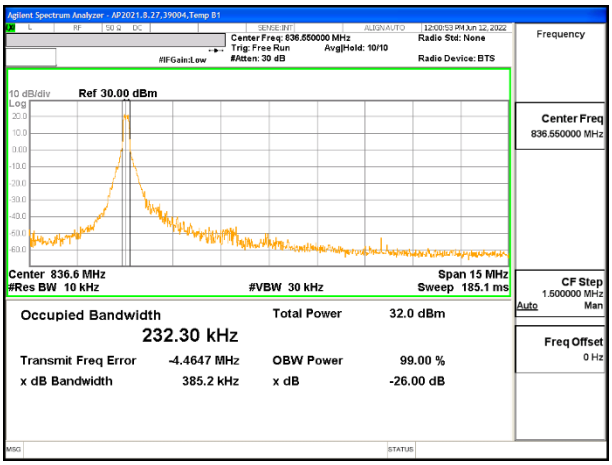

LTE B26 3MHz QPSK Middle Channel RB15-0




LTE B26 5MHz QPSK Middle Channel RB25-0



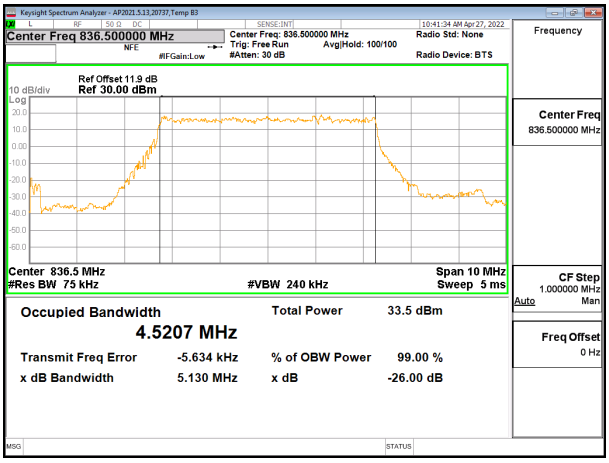

LTE B26 10MHz QPSK Middle Channel RB50-0



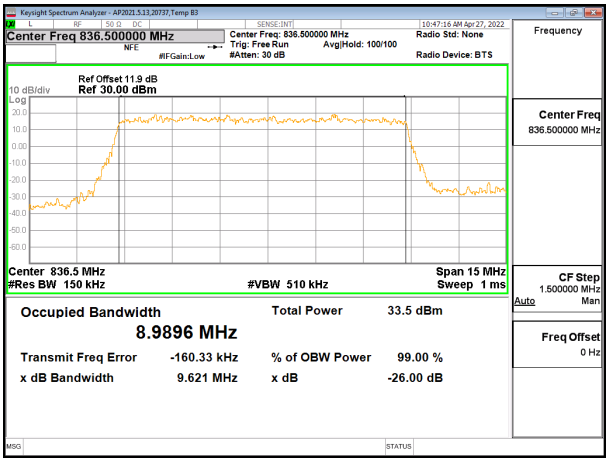

LTE B26 10MHz QPSK Middle Channel RB1-0

Intentionally Blank

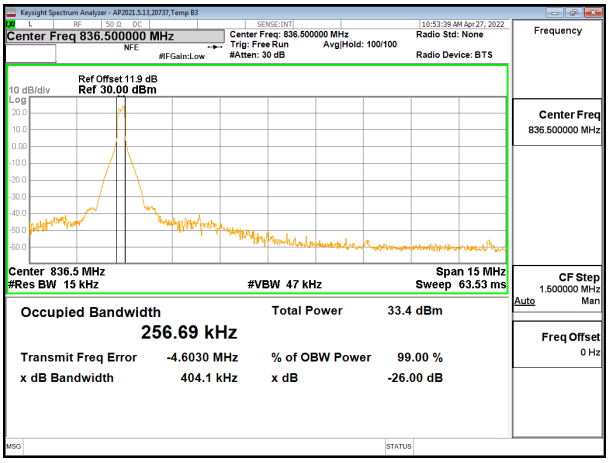
## 5G NR n26




5G NR n26 5MHz BPSK Middle Channel RB25-0



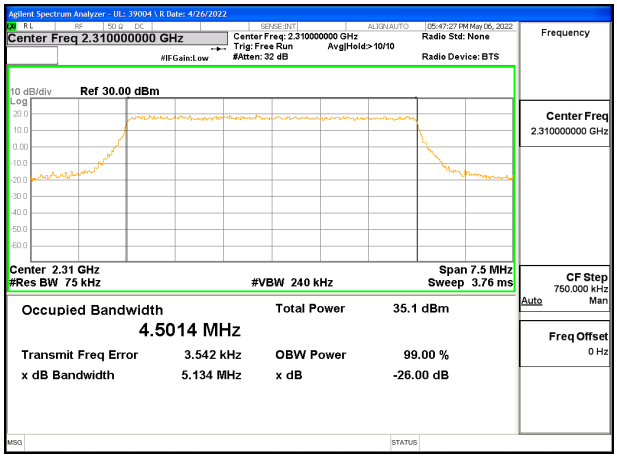

5G NR n26 10MHz BPSK Middle Channel RB50-0



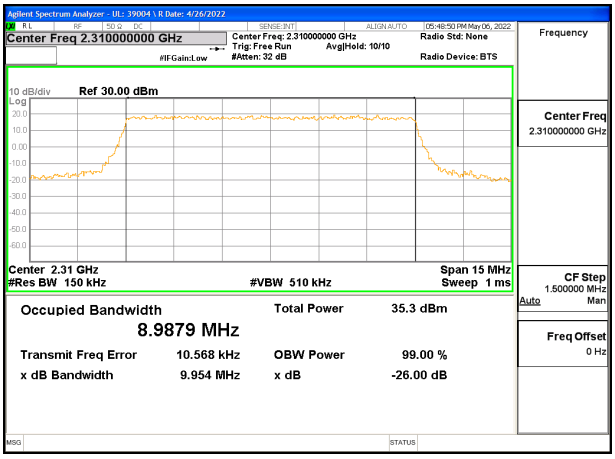

5G NR n26 10MHz BPSK Middlle Channel RB1-0

## 9.1.10. LTE BAND 30 AND 5G NR n30

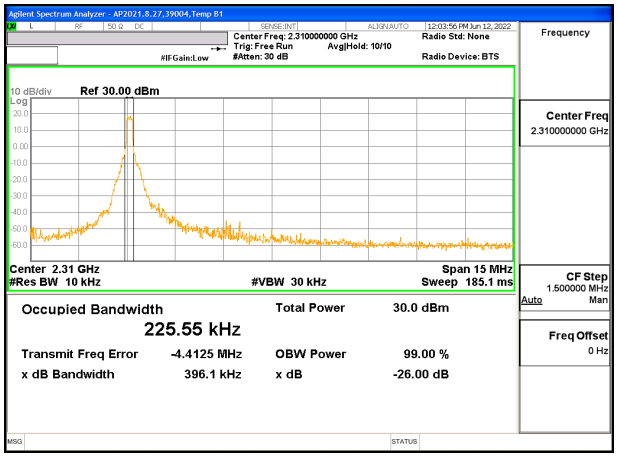
**LTE BAND 30**




LTE B30 5MHz QPSK Middle Channel RB25-0

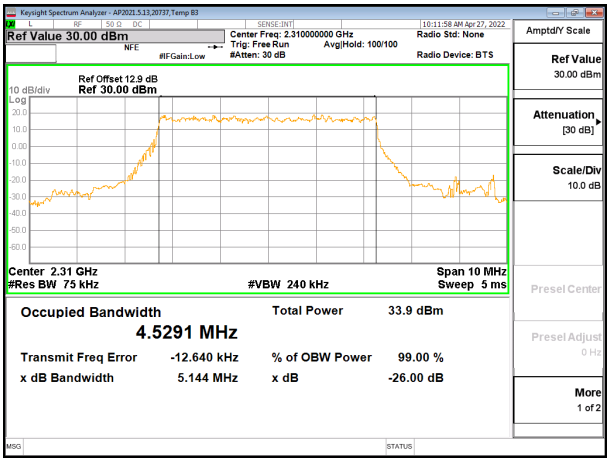



LTE B30 10MHz QPSK Middle Channel RB50-0

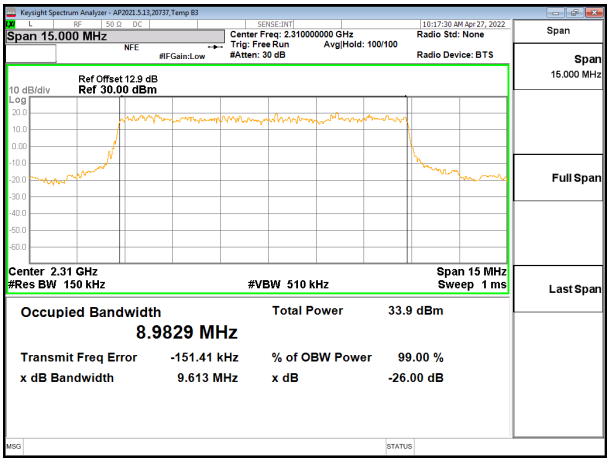



LTE B30 10MHz QPSK Middle Channel RB1-0

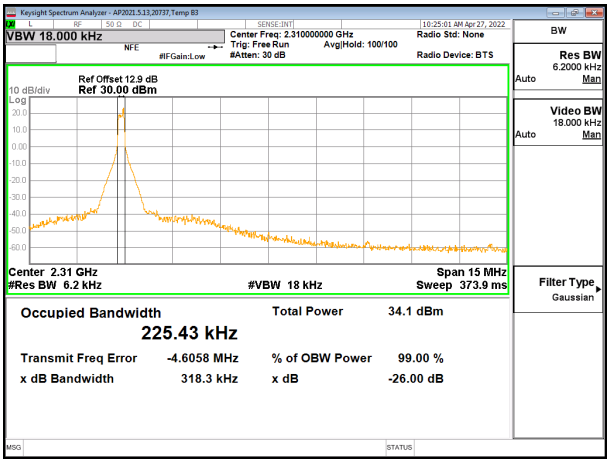
## 5G NR n30




5G NR n30 5MHz BPSK Middle Channel RB25-0



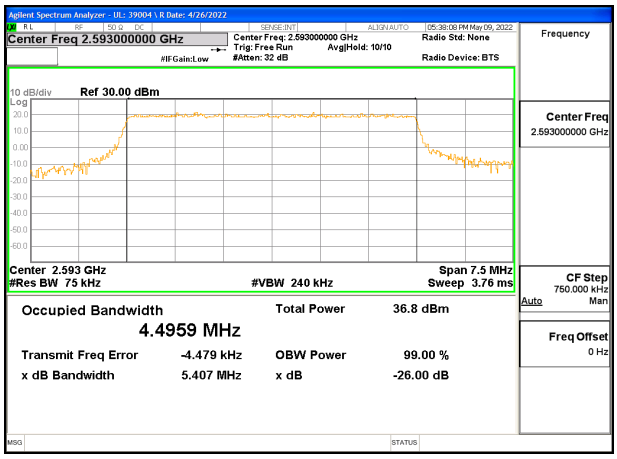

5G NR n30 10MHz BPSK Middle Channel RB50-0



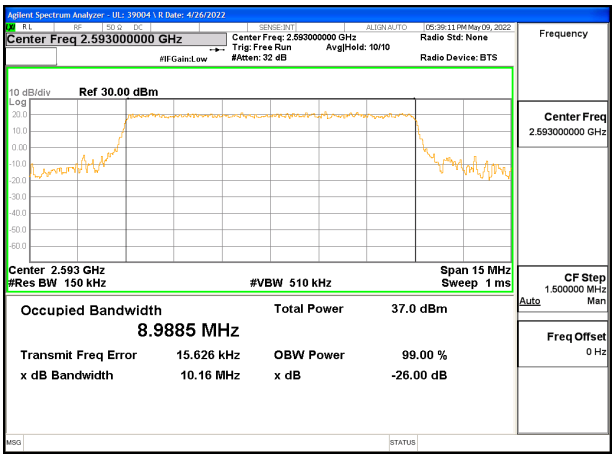

5G NR n30 10MHz BPSK Middle Channel RB1-0

## 9.1.11. LTE BAND 41 AND 5G NR n41

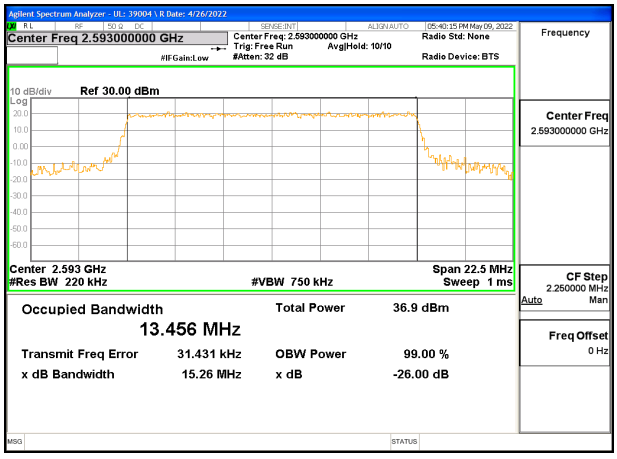
### LTE BAND 41



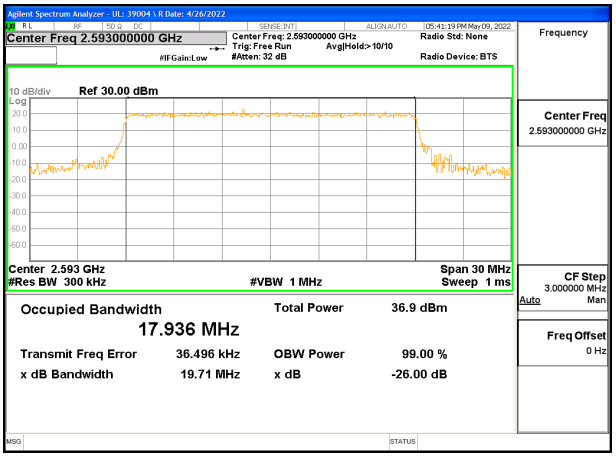

LTE B41 5MHz QPSK Middle Channel RB25-0



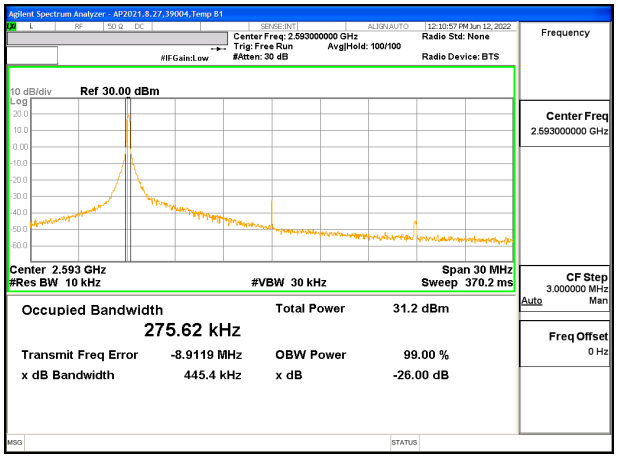

LTE B41 10MHz QPSK Middle Channel RB50-0




LTE B41 15MHz QPSK Middle Channel RB75-0

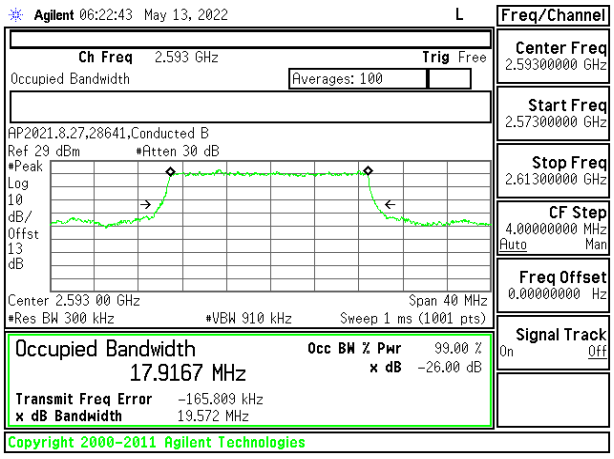



LTE B41 20MHz QPSK Middle Channel RB100-0

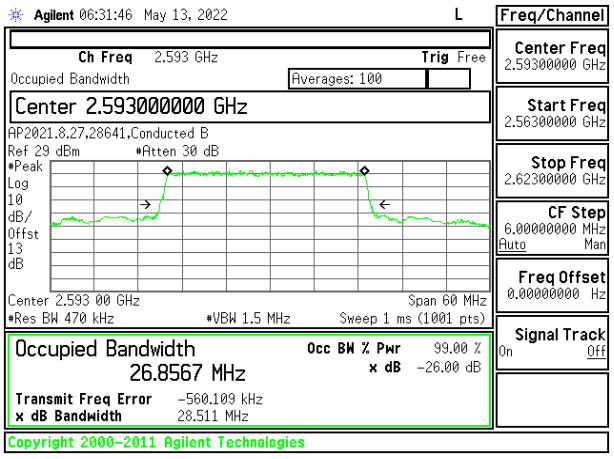



LTE B41 20MHz QPSK Middle Channel RB1-0

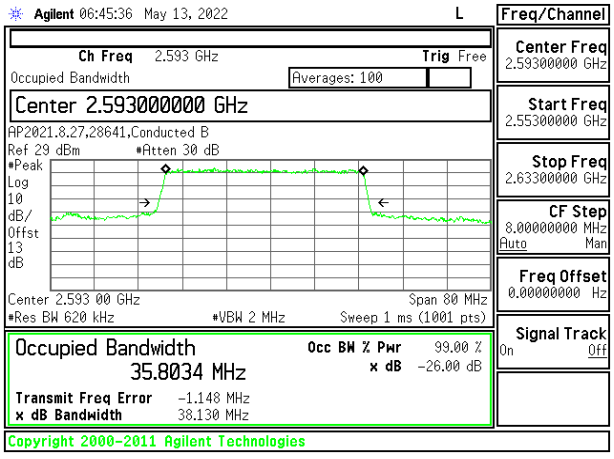
**5G NR n41**



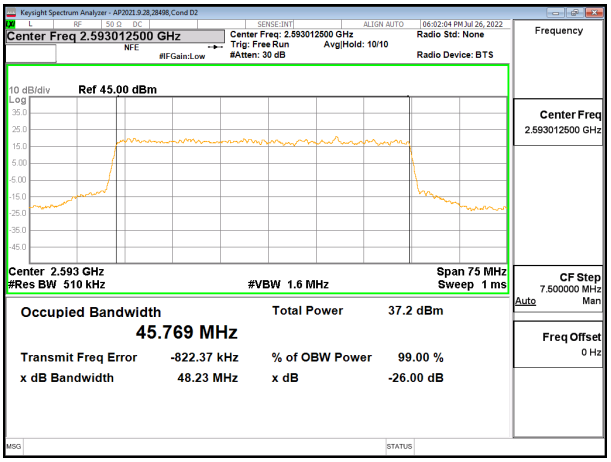

5G NR n41 20MHz BPSK Middle Channel RB50-0



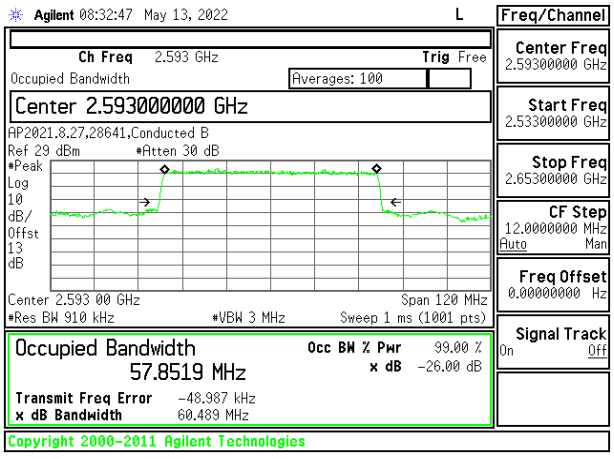

5G NR n41 30MHz BPSK Middle Channel RB75-0



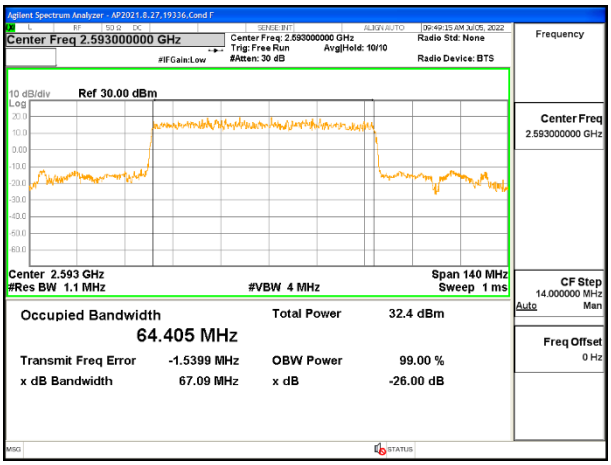

5G NR n41 40MHz BPSK Middle Channel RB100-0



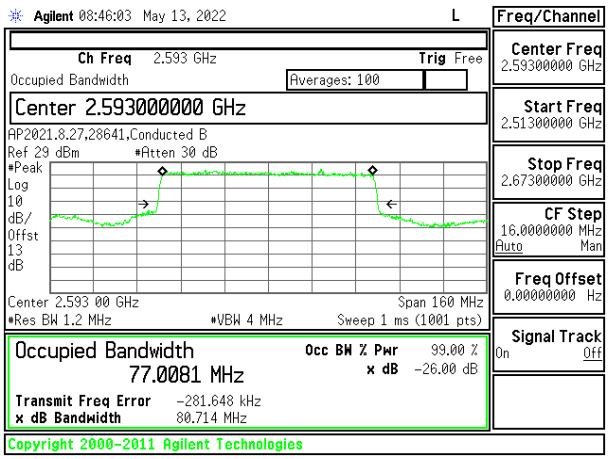

5G NR n41 50MHz BPSK Middle Channel RB128-0



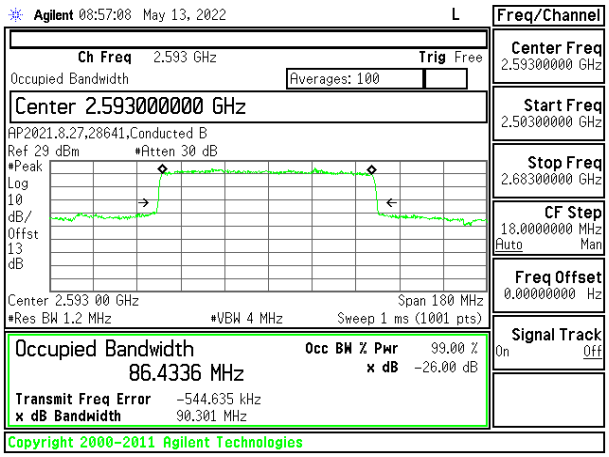

5G NR n41 60MHz BPSK Middle Channel RB162-0



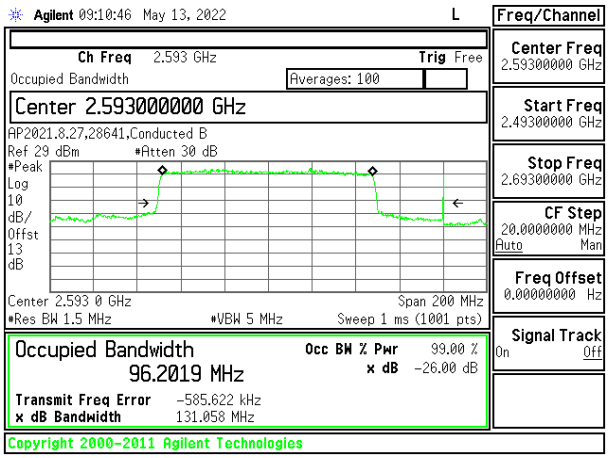

5G NR n41 70MHz BPSK Middle Channel RB180-0



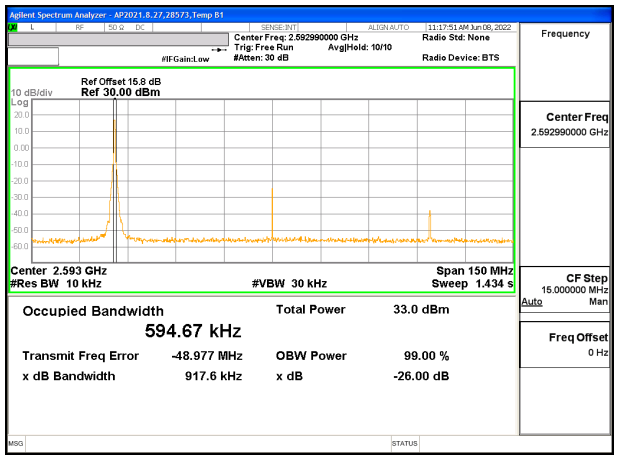

5G NR n41 80MHz BPSK Middle Channel RB216-0




5G NR n41 90MHz BPSK Middle Channel RB243-0



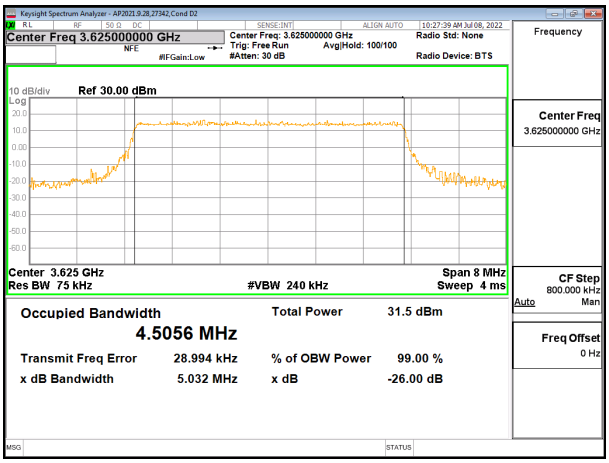

5G NR n41 100MHz BPSK Middle Channel RB270-0



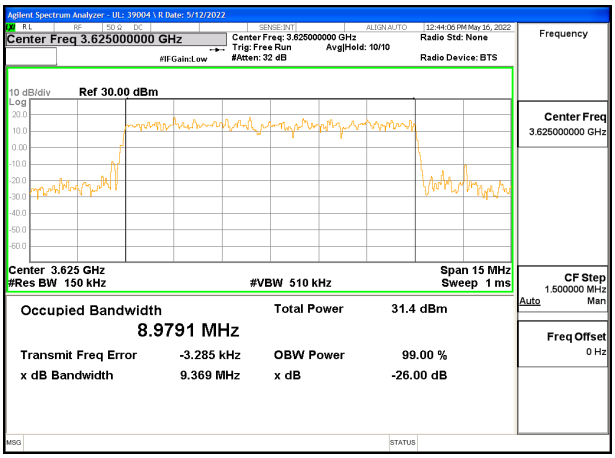

5G NR n41 100MHz BPSK Middle Channel RB1-0

## 9.1.12. LTE BAND 48

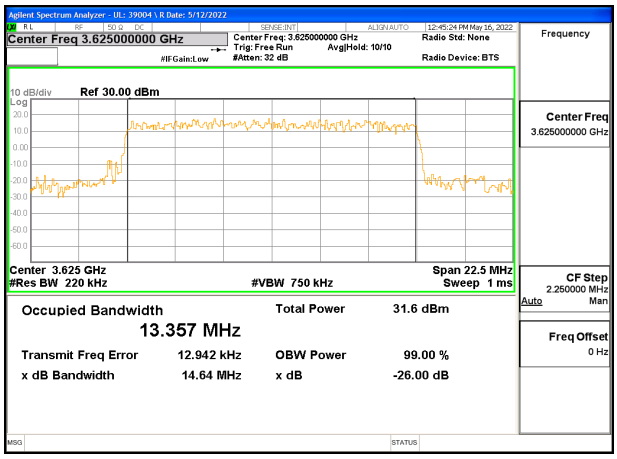
**LTE BAND 48**



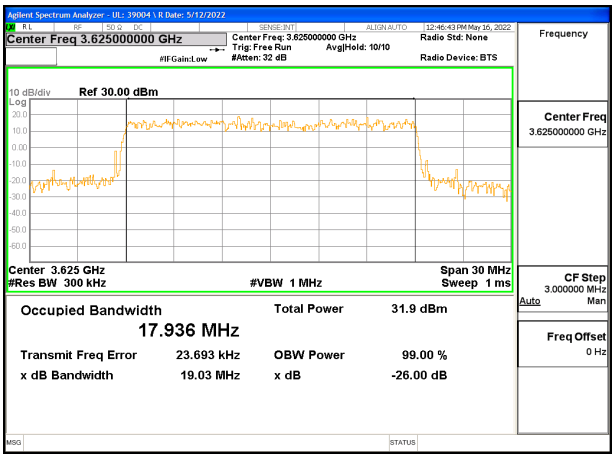

LTE B48 5MHz QPSK Middle Channel RB25-0



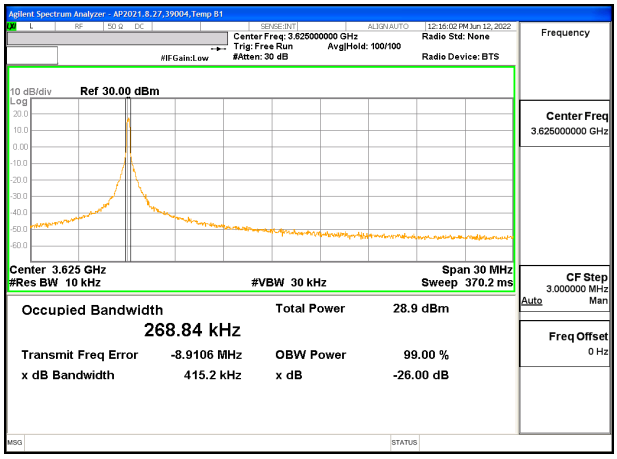

LTE B48 10MHz QPSK Middle Channel RB50-0




LTE B48 15MHz QPSK Middle Channel RB75-0




LTE B48 20MHz QPSK Middle Channel RB100-0




LTE B48 20MHz QPSK Middle Channel RB1-0