

# **TEST REPORT**

**Report Number:** 14982436- E15V3

**Applicant :** APPLE, INC  
1 APPLE PARK WAY  
CUPERTINO, CA 95014, U.S.A.

**Model :** A3083

**Brand :** APPLE

**FCC ID :** BCG-E8666A

**EUT Description :** SMARTPHONE

**Test Standard(s) :** FCC 47 CFR PART 2 AND PART 27

**Date Of Issue:**  
2024-08-01

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Revision History

| Rev. | Issue Date | Revisions                             | Revised By |
|------|------------|---------------------------------------|------------|
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| V3   | 2024-08-01 | Address TCB Feedback Section 6,7,9    | Eric Ting  |

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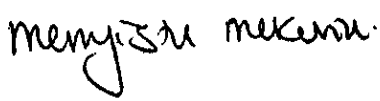
## 1. ATTESTATION OF TEST RESULTS

|                            |                                                                                       |
|----------------------------|---------------------------------------------------------------------------------------|
| Applicant Name and Address | APPLE, INC<br>1 APPLE PARK WAY<br>CUPERTINO, CA 95014, U.S.A.                         |
| Model                      | A3083                                                                                 |
| Brand                      | APPLE                                                                                 |
| FCC ID                     | BCG-E8666A                                                                            |
| EUT Description            | SMARTPHONE                                                                            |
| Serial Number              | Radiated: QM2WVQQ45T, L73Q9RQC46<br>Conducted: C07H5N000AB0000FDQ, C07H5R000J20000FDR |
| Sample Receipt Date        | 2023-12-14                                                                            |
| Date Tested                | 2023-11-14 to 2024-06-19                                                              |
| Applicable Standards       | FCC 47 CFR PART 2 AND PART 27                                                         |
| Test Results               | COMPLIES                                                                              |

UL Verification Services Inc. 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 Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document.

|                                                                                                                    |                                                                                                         |                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Approved & Released By:<br><br> | Reviewed By:<br><br> | Prepared By:<br><br> |
| Mengistu Mekuria<br>Staff Engineer<br>UL Verification Services Inc.                                                | Eric Ting<br>Senior Test Engineer<br>UL Verification Services Inc.                                      | Chris He<br>Laboratory Engineer<br>UL Verification Services Inc.                                          |

## 2. SUMMARY OF TEST RESULTS

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for correctly integrating customer-provided data with measurements performed by UL Verification Services Inc.

Below is a list of the data provided by the customer:

1. Antenna gain (see section 6.4.)

| Requirement Description             | Band   | Requirement Clause Number (FCC) | Result   | Remarks |
|-------------------------------------|--------|---------------------------------|----------|---------|
| Equivalent Isotropic Radiated Power | 41, 77 | 27.50 (j) (3), (k) (3)          | Complies |         |

| Requirement Description              | Requirement Clause Number (FCC)                                                          | Result   | Remarks |
|--------------------------------------|------------------------------------------------------------------------------------------|----------|---------|
| Occupied Bandwidth                   | 2.1049                                                                                   | Complies |         |
| Band Edge and Emission Mask          | 2.1051, 27.53 (h), 27.53 (m)(4) & (m) (6), 27.53 (g), 27.53 (c) (f), 27.53(a), 27.53(l), | Complies |         |
| Out of Band Emissions                | 2.1051, 27.53 (h), 27.53 (m)(4) & (m) (6), 27.53 (g), 27.53 (c) (f), 27.53(a), 27.53(l)  | Complies |         |
| Frequency Stability                  | 2.1055, 27.54                                                                            | Complies |         |
| Peak-to-Average Ratio                | 27.50 (d) (5), 27.50 (j) (4),                                                            | Complies |         |
| Field Strength of Spurious Radiation | 2.1053, 27.53 (h), 27.53 (m)(4) & (m) (6), 27.53 (g), 27.53 (c) (f), 27.53(a), 27.53(l)  | 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 27
- [FCC KDB 971168 D01](#) : Power Meas License Digital Systems
- [FCC KDB 971168 D02](#): Misc Rev Approv License Devices
- [FCC KDB 412172 D01](#) : Determining ERP and EIRP

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. 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<br>CABID | ISED<br>Company<br>Number | FCC<br>Registration |
|-------------------------------------|----------------------------------------------------------|---------------|---------------------------|---------------------|
| <input checked="" type="checkbox"/> | Building 1: 47173 Benicia Street, Fremont, CA 94538, USA | US0104        | 2324A                     | 550739              |
| <input checked="" type="checkbox"/> | Building 2: 47266 Benicia Street, Fremont, CA 94538, USA |               |                           |                     |
| <input checked="" type="checkbox"/> | Building 3: 843 Auburn Court, Fremont, CA 94538, USA     |               |                           |                     |
| <input type="checkbox"/>            | Building 4: 47658 Kato Rd, Fremont, CA 94538, USA        |               |                           |                     |
| <input type="checkbox"/>            | Building 5: 47670 Kato Rd, Fremont, CA 94538, USA        |               |                           |                     |

## 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 <sub>Lab</sub>       |
|------------------------------------------------------|------------------------|
| Conducted Antenna Port Emission Measurement          | 1.940                  |
| Power Spectral Density                               | 2.466                  |
| Time Domain Measurements Using SA                    | 3.39                   |
| RF Power Measurement Direct Method Using Power Meter | 0.450 Peak; 1.300 Ave. |
| Radio Frequency (Spectrum Analyzer)                  | 141.16 Hz              |
| Occupied Bandwidth                                   | 1.22%                  |
| Worst Case Conducted Disturbance, 9KHz to 0.15 MHz   | 3.78 db                |
| Worst Case Conducted Disturbance, 0.15 to 30 MHz     | 3.40 db                |
| Worst Case Radiated Disturbance, 9KHz to 30 MHz      | 2.87 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                |

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 cellular GSM, GPRS, EGPRS, WCDMA, LTE, 5G NR1, 5G NR2, IEEE 802.11a/b/g/n/ac/ax/be, Bluetooth (BT), Ultra-Wideband (UWB), Global Positioning System (GPS), Near-Field Communication (NFC), Narrow-Band (NB) UNII, 802.15.4, 802.15.4ab-Narrow Band (NB), WPT and Mobile Satellite Service (MSS) technologies. The rechargeable battery is not user accessible. This device is not user-serviceable and requires special tools to disassemble.

### 6.2. MAXIMUM OUTPUT POWER

#### EIRP/ERP TEST PROCEDURE

ANSI C63.26:2015  
KDB 971168 D01 Section 5.6

$$\text{ERP/EIRP} = \text{PMeas} + \text{GT} - \text{LC}$$

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:

**5G NR n41**

| Part 27            |            |                     |                       |                         |                    |                  |              |                     |
|--------------------|------------|---------------------|-----------------------|-------------------------|--------------------|------------------|--------------|---------------------|
| EIRP Limit (W)     |            | 2.00                |                       |                         |                    |                  |              |                     |
| Antenna Gain (dBi) |            | -3.70               |                       |                         |                    |                  |              |                     |
| 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       | 2501.0              | 2685.0                | 31.17                   | 27.47              | 0.558            | 8652         | 8M65G7W             |
|                    | QPSK       |                     |                       | 30.95                   | 27.25              | 0.531            | 8670         | 8M67G7W             |
|                    | 16QAM      |                     |                       | 29.94                   | 26.24              | 0.421            | 8627         | 8M63D7W             |
| 15.0               | BPSK       | 2503.5              | 2682.5                | 30.91                   | 27.21              | 0.526            | 12931        | 12M9G7W             |
|                    | QPSK       |                     |                       | 31.02                   | 27.32              | 0.540            | 12886        | 12M9G7W             |
|                    | 16QAM      |                     |                       | 30.20                   | 26.50              | 0.447            | 13004        | 13M0D7W             |
| 20.0               | BPSK       | 2506.5              | 2680.0                | 31.07                   | 27.37              | 0.546            | 17928        | 17M9G7W             |
|                    | QPSK       |                     |                       | 31.08                   | 27.38              | 0.547            | 17926        | 17M9G7W             |
|                    | 16QAM      |                     |                       | 30.02                   | 26.32              | 0.429            | 17991        | 18M0D7W             |
| 30.0               | BPSK       | 2511.0              | 2675.0                | 31.07                   | 27.37              | 0.546            | 27008        | 27M0G7W             |
|                    | QPSK       |                     |                       | 31.09                   | 27.39              | 0.548            | 26951        | 27M0G7W             |
|                    | 16QAM      |                     |                       | 29.93                   | 26.23              | 0.420            | 26883        | 26M9D7W             |
| 40.0               | BPSK       | 2516.0              | 2670.0                | 31.15                   | 27.45              | 0.556            | 35860        | 35M9G7W             |
|                    | QPSK       |                     |                       | 30.92                   | 27.22              | 0.527            | 35848        | 35M8G7W             |
|                    | 16QAM      |                     |                       | 29.94                   | 26.24              | 0.421            | 35979        | 36M0D7W             |
| 50.0               | BPSK       | 2521.0              | 2665.0                | 31.06                   | 27.36              | 0.545            | 45817        | 45M8G7W             |
|                    | QPSK       |                     |                       | 31.17                   | 27.47              | 0.558            | 45878        | 45M9G7W             |
|                    | 16QAM      |                     |                       | 30.11                   | 26.41              | 0.438            | 45913        | 45M9D7W             |
| 60.0               | BPSK       | 2526.0              | 2660.0                | 30.87                   | 27.17              | 0.521            | 58009        | 58M0G7W             |
|                    | QPSK       |                     |                       | 31.00                   | 27.30              | 0.537            | 58275        | 58M3G7W             |
|                    | 16QAM      |                     |                       | 29.85                   | 26.15              | 0.412            | 57940        | 57M9D7W             |
| 70.0               | BPSK       | 2531.0              | 2655.0                | 31.05                   | 27.35              | 0.543            | 64711        | 64M7G7W             |
|                    | QPSK       |                     |                       | 31.05                   | 27.35              | 0.543            | 64462        | 64M5G7W             |
|                    | 16QAM      |                     |                       | 30.09                   | 26.39              | 0.436            | 64526        | 64M5D7W             |
| 80.0               | BPSK       | 2536.0              | 2650.0                | 30.99                   | 27.29              | 0.536            | 77408        | 77M4G7W             |
|                    | QPSK       |                     |                       | 31.10                   | 27.40              | 0.550            | 77520        | 77M5G7W             |
|                    | 16QAM      |                     |                       | 29.85                   | 26.15              | 0.412            | 77270        | 77M3D7W             |
| 90.0               | BPSK       | 2541.0              | 2645.0                | 31.13                   | 27.43              | 0.553            | 86901        | 86M9G7W             |
|                    | QPSK       |                     |                       | 31.11                   | 27.41              | 0.551            | 86827        | 86M8G7W             |
|                    | 16QAM      |                     |                       | 30.13                   | 26.43              | 0.440            | 86915        | 86M9D7W             |
| 100.0              | BPSK       | 2546.0              | 2640.0                | 31.09                   | 27.39              | 0.548            | 96490        | 96M5G7W             |
|                    | QPSK       |                     |                       | 30.87                   | 27.17              | 0.521            | 96553        | 96M6G7W             |
|                    | 16QAM      |                     |                       | 30.12                   | 26.42              | 0.439            | 95535        | 95M5D7W             |

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

| Part 27            |            |                     |                       |                         |                    |                  |              |                     |
|--------------------|------------|---------------------|-----------------------|-------------------------|--------------------|------------------|--------------|---------------------|
| EIRP Limit (W)     |            | 1.00                |                       |                         |                    |                  |              |                     |
| Antenna Gain (dBi) |            | -5.50               |                       |                         |                    |                  |              |                     |
| 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                | 31.04                   | 25.54              | 0.358            | 8607         | 8M61G7W             |
|                    | QPSK       |                     |                       | 31.14                   | 25.64              | 0.366            | 8637         | 8M64G7W             |
|                    | 16QAM      |                     |                       | 31.11                   | 25.61              | 0.364            | 8619         | 8M62D7W             |
| 15.0               | BPSK       | 3457.5              | 3542.5                | 31.17                   | 25.67              | 0.369            | 12957        | 13M0G7W             |
|                    | QPSK       |                     |                       | 31.12                   | 25.62              | 0.365            | 12916        | 12M9G7W             |
|                    | 16QAM      |                     |                       | 31.13                   | 25.63              | 0.366            | 12909        | 12M9D7W             |
| 20.0               | BPSK       | 3460.0              | 3540.0                | 31.12                   | 25.62              | 0.365            | 17874        | 17M9G7W             |
|                    | QPSK       |                     |                       | 31.17                   | 25.67              | 0.369            | 17972        | 18M0G7W             |
|                    | 16QAM      |                     |                       | 31.05                   | 25.55              | 0.359            | 17891        | 17M9D7W             |
| 30.0               | BPSK       | 3465.0              | 3535.0                | 31.06                   | 25.56              | 0.360            | 26851        | 26M9G7W             |
|                    | QPSK       |                     |                       | 31.15                   | 25.65              | 0.367            | 26731        | 26M7G7W             |
|                    | 16QAM      |                     |                       | 30.98                   | 25.48              | 0.353            | 26912        | 26M9D7W             |
| 40.0               | BPSK       | 3470.0              | 3530.0                | 31.10                   | 25.60              | 0.363            | 35786        | 35M8G7W             |
|                    | QPSK       |                     |                       | 31.07                   | 25.57              | 0.361            | 35935        | 35M9G7W             |
|                    | 16QAM      |                     |                       | 31.12                   | 25.62              | 0.365            | 35770        | 35M8D7W             |
| 50.0               | BPSK       | 3475.0              | 3525.0                | 31.08                   | 25.58              | 0.361            | 45852        | 45M9G7W             |
|                    | QPSK       |                     |                       | 31.18                   | 25.68              | 0.370            | 45634        | 45M6G7W             |
|                    | 16QAM      |                     |                       | 31.12                   | 25.62              | 0.365            | 45676        | 45M7D7W             |
| 60.0               | BPSK       | 3480.0              | 3520.0                | 31.17                   | 25.67              | 0.369            | 58002        | 58M0G7W             |
|                    | QPSK       |                     |                       | 31.19                   | 25.69              | 0.371            | 57801        | 57M8G7W             |
|                    | 16QAM      |                     |                       | 31.07                   | 25.57              | 0.361            | 57848        | 57M8D7W             |
| 70.0               | BPSK       | 3485.0              | 3515.0                | 31.14                   | 25.64              | 0.366            | 64347        | 64M3G7W             |
|                    | QPSK       |                     |                       | 31.19                   | 25.69              | 0.371            | 64301        | 64M3G7W             |
|                    | 16QAM      |                     |                       | 31.19                   | 25.69              | 0.371            | 64397        | 64M4D7W             |
| 80.0               | BPSK       | 3490.0              | 3510.0                | 31.18                   | 25.68              | 0.370            | 77048        | 77M0G7W             |
|                    | QPSK       |                     |                       | 31.14                   | 25.64              | 0.366            | 77255        | 77M3G7W             |
|                    | 16QAM      |                     |                       | 31.16                   | 25.66              | 0.368            | 77177        | 77M2D7W             |
| 90.0               | BPSK       | 3495.0              | 3505.0                | 31.15                   | 25.65              | 0.367            | 86755        | 86M8G7W             |
|                    | QPSK       |                     |                       | 31.20                   | 25.70              | 0.372            | 86803        | 86M8G7W             |
|                    | 16QAM      |                     |                       | 31.05                   | 25.55              | 0.359            | 86716        | 86M7D7W             |
| 100.0              | BPSK       | 3500.0              | 3500.0                | 31.08                   | 25.58              | 0.361            | 96318        | 96M3G7W             |
|                    | QPSK       |                     |                       | 30.86                   | 25.36              | 0.344            | 96466        | 96M5G7W             |
|                    | 16QAM      |                     |                       | 30.99                   | 25.49              | 0.354            | 96317        | 96M3D7W             |

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

| Part 27            |            |                     |                       |                         |                    |                  |              |                     |
|--------------------|------------|---------------------|-----------------------|-------------------------|--------------------|------------------|--------------|---------------------|
| EIRP Limit (W)     |            | 1.00                |                       |                         |                    |                  |              |                     |
| Antenna Gain (dBi) |            | -5.50               |                       |                         |                    |                  |              |                     |
| 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                | 31.08                   | 25.58              | 0.361            | 8608         | 8M61G7W             |
|                    | QPSK       |                     |                       | 30.95                   | 25.45              | 0.351            | 8572         | 8M57G7W             |
|                    | 16QAM      |                     |                       | 31.12                   | 25.62              | 0.365            | 8648         | 8M65D7W             |
| 15.0               | BPSK       | 3707.5              | 3972.5                | 31.13                   | 25.63              | 0.366            | 12910        | 12M9G7W             |
|                    | QPSK       |                     |                       | 31.15                   | 25.65              | 0.367            | 12899        | 12M9G7W             |
|                    | 16QAM      |                     |                       | 31.14                   | 25.64              | 0.366            | 12864        | 12M9D7W             |
| 20.0               | BPSK       | 3710.0              | 3970.0                | 31.17                   | 25.67              | 0.369            | 17877        | 17M9G7W             |
|                    | QPSK       |                     |                       | 31.16                   | 25.66              | 0.368            | 17821        | 17M8G7W             |
|                    | 16QAM      |                     |                       | 31.04                   | 25.54              | 0.358            | 17897        | 17M9D7W             |
| 30.0               | BPSK       | 3715.0              | 3965.0                | 31.16                   | 25.66              | 0.368            | 26850        | 26M9G7W             |
|                    | QPSK       |                     |                       | 31.10                   | 25.60              | 0.363            | 26793        | 26M8G7W             |
|                    | 16QAM      |                     |                       | 31.21                   | 25.71              | 0.372            | 26683        | 26M7D7W             |
| 40.0               | BPSK       | 3720.0              | 3960.0                | 31.01                   | 25.51              | 0.356            | 35957        | 36M0G7W             |
|                    | QPSK       |                     |                       | 31.09                   | 25.59              | 0.362            | 35674        | 35M7G7W             |
|                    | 16QAM      |                     |                       | 31.08                   | 25.58              | 0.361            | 35722        | 35M7D7W             |
| 50.0               | BPSK       | 3725.0              | 3955.0                | 31.00                   | 25.50              | 0.355            | 45781        | 45M8G7W             |
|                    | QPSK       |                     |                       | 31.17                   | 25.67              | 0.369            | 45686        | 45M7G7W             |
|                    | 16QAM      |                     |                       | 31.09                   | 25.59              | 0.362            | 45555        | 45M6D7W             |
| 60.0               | BPSK       | 3730.0              | 3950.0                | 31.10                   | 25.60              | 0.363            | 57807        | 57M8G7W             |
|                    | QPSK       |                     |                       | 31.09                   | 25.59              | 0.362            | 57877        | 57M9G7W             |
|                    | 16QAM      |                     |                       | 31.04                   | 25.54              | 0.358            | 57829        | 57M8D7W             |
| 70.0               | BPSK       | 3735.0              | 3945.0                | 31.17                   | 25.67              | 0.369            | 64297        | 64M3G7W             |
|                    | QPSK       |                     |                       | 30.97                   | 25.47              | 0.352            | 64364        | 64M4G7W             |
|                    | 16QAM      |                     |                       | 31.04                   | 25.54              | 0.358            | 64169        | 64M2D7W             |
| 80.0               | BPSK       | 3740.0              | 3940.0                | 31.18                   | 25.68              | 0.370            | 77045        | 77M0G7W             |
|                    | QPSK       |                     |                       | 31.20                   | 25.70              | 0.372            | 77031        | 77M0G7W             |
|                    | 16QAM      |                     |                       | 31.13                   | 25.63              | 0.366            | 77263        | 77M3D7W             |
| 90.0               | BPSK       | 3745.0              | 3935.0                | 31.20                   | 25.70              | 0.372            | 86772        | 86M8G7W             |
|                    | QPSK       |                     |                       | 31.15                   | 25.65              | 0.367            | 86739        | 86M7G7W             |
|                    | 16QAM      |                     |                       | 31.16                   | 25.66              | 0.368            | 86781        | 86M8D7W             |
| 100.0              | BPSK       | 3750.0              | 3930.0                | 31.14                   | 25.64              | 0.366            | 96302        | 96M3G7W             |
|                    | QPSK       |                     |                       | 31.15                   | 25.65              | 0.367            | 96591        | 96M6G7W             |
|                    | 16QAM      |                     |                       | 31.05                   | 25.55              | 0.359            | 96338        | 96M3D7W             |

6.3. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was version 0.02.01.

6.4. MAXIMUM ANTENNA GAIN

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

| 5G NR MIMO Bands | Frequency Range (MHz) | ANT 2+1 Antenna Gain (dBi) | ANT 2+3 Antenna Gain (dBi) | ANT 4+1 Antenna Gain (dBi) | ANT 4+3 Antenna Gain (dBi) |
|------------------|-----------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 5G NR n41        | 2496 – 2690           | -3.7                       | -3.5                       | -4.7                       | -4.2                       |

| 5G NR MIMO Bands | Frequency Range (MHz)      | ANT 7+8 Antenna Gain (dBi) | ANT 7+4 Antenna Gain (dBi) | ANT 9+8 Antenna Gain (dBi) | ANT 9+4 Antenna Gain (dBi) |
|------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| 5G NR n77        | 3450 – 3550<br>3700 – 3980 | -5.5                       | -5.4                       | -4.2                       | -4.3                       |

## 6.5. WORST-CASE CONFIGURATION AND MODE

The EUT supports the following LTE and 5G NRs:  
5G NR n41 and 5G NR n77.

5G NR n41 and 5G NR n77, SISO data were used for OBW, PAR and FS because these measurements are independent of the number of antennas used simultaneously.

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.

| 5G NR Bands | Worst case Antenna Port for Conducted Power |
|-------------|---------------------------------------------|
| 5G NR n41   | Ant 2+1                                     |
| 5G NR n77   | Ant 7+8                                     |

The EUT was investigated in three orthogonal orientations X/Y/Z on all ANT 2+1 and ANT 7+8 antennas to determine the worst-case orientation. The following table exhibit 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 | ANT2+1 | ANT2+3 | ANT4+1 | ANT4+3 | ANT7+8 | ANT7+4 | ANT9+8 | ANT9+8 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2496 – 2680 MHz | X      | X      | Y      | Y      | N/A    | N/A    | N/A    | N/A    |
| 3300 – 3980 MHz | N/A    | N/A    | N/A    | N/A    | X      | X      | X      | Z      |

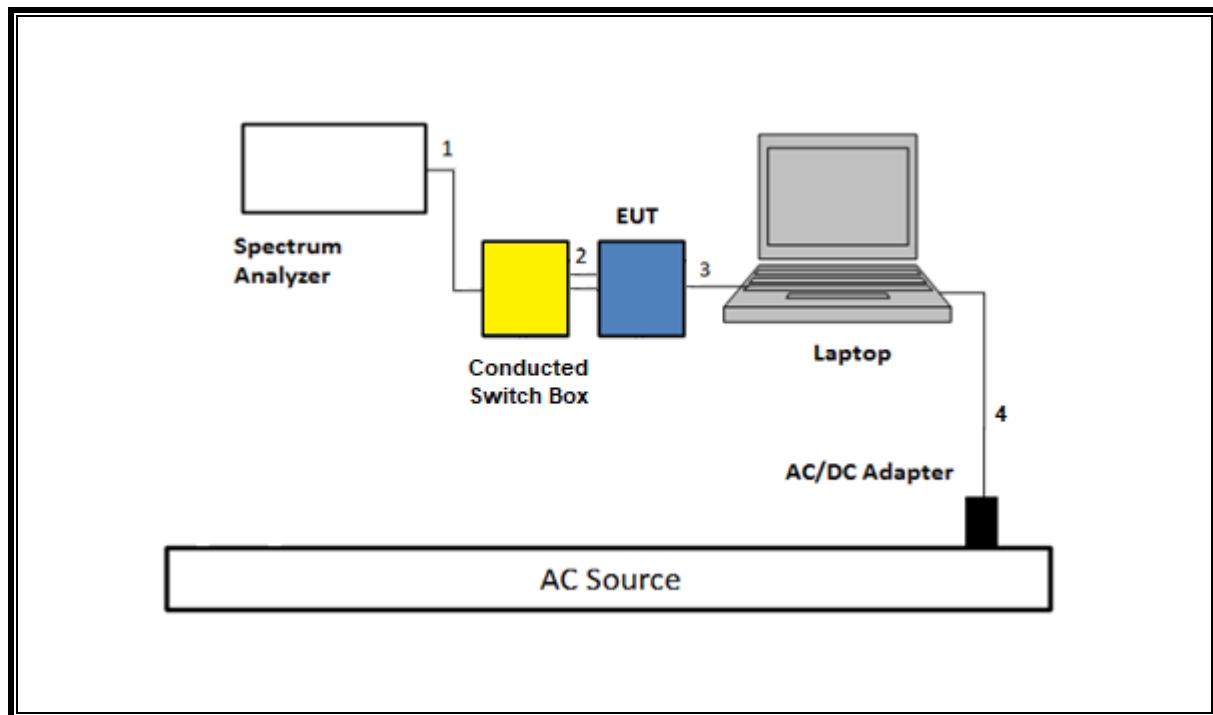
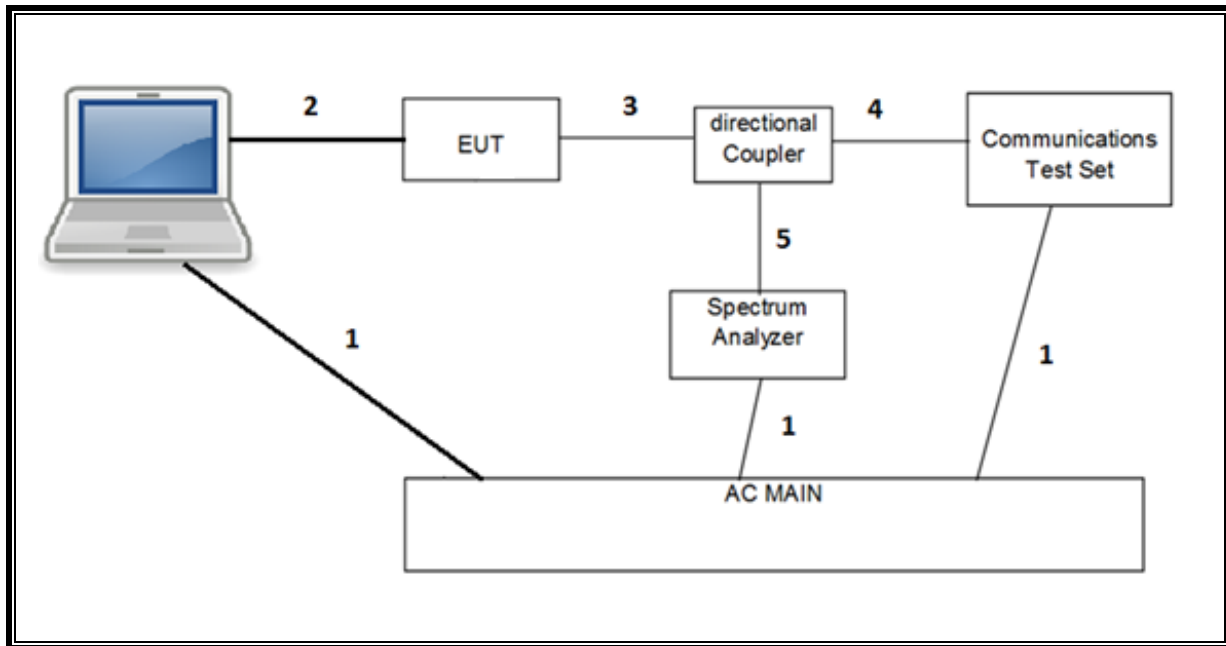
Radiated spurious emissions were investigated from 9kHz to 30MHz, 30MHz-1GHz and above 18GHz. There were no emissions found with less than 20dB of margin from 9kHz to 30MHz, 30MHz-1GHz and above 18GHz.

For simultaneous transmission of multiple channels in the 2.4GHz/5GHz 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

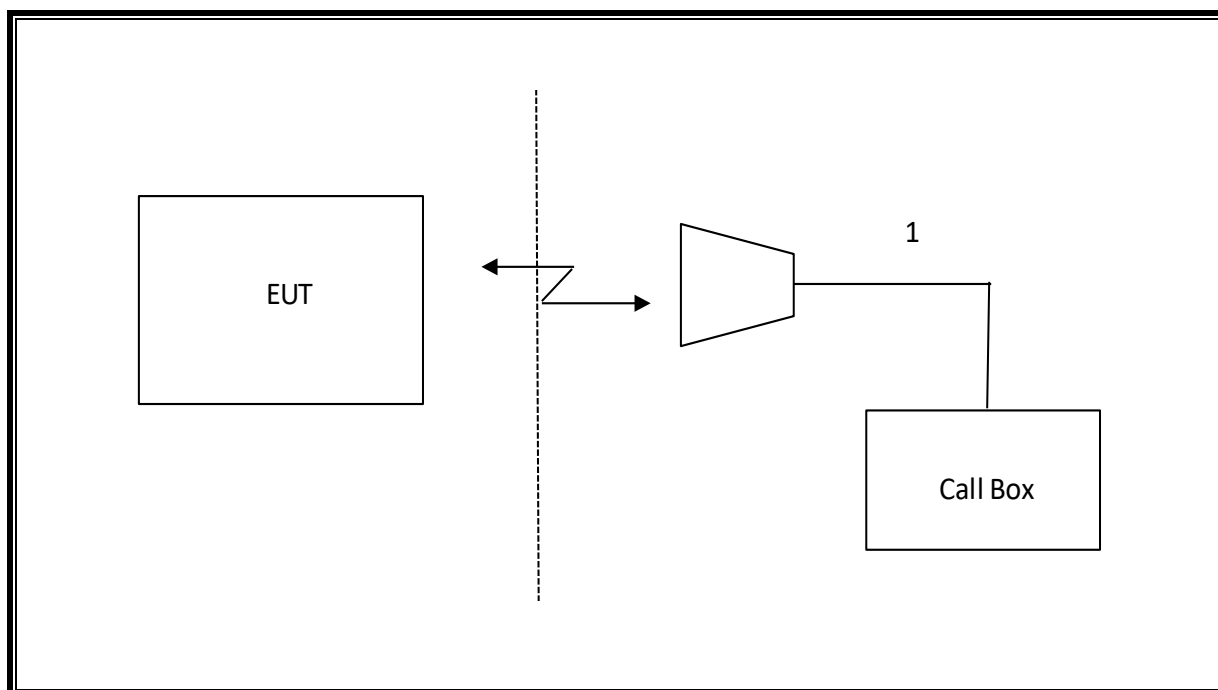
| SUPPORT TEST EQUIPMENT         |           |                      |                        |                   |                  |             |
|--------------------------------|-----------|----------------------|------------------------|-------------------|------------------|-------------|
| Description                    |           | 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                   | 80430              | 2024-08-31 |
| Antenna, Horn 1-18GHz                              | ETS Lindgren                | 3117                   | 79834              | 2024-06-30 |
| Antenna, Broadband Hybrid, 30MHz to 3000MHz        | SUNAR                       | JB3                    | 222009             | 2024-10-31 |
| RF Filter Box, 1-18GHz                             | UL-FR1                      | NA                     | 217255             | 2024-10-31 |
| RF Filter Box, 1-18GHz                             | UL-FR1                      | RATS 2                 | 226781             | 2024-09-30 |
| Amplifier, 10KHz to 1GHz, 32dB                     | Sonoma                      | 310N                   | 430250             | 2024-09-30 |
| EMI TEST RECEIVER                                  | Rohde & Schwarz             | ESW44                  | 169936             | 2025-02-28 |
| EMI TEST RECEIVER                                  | Rohde & Schwarz             | ESW44                  | 169935             | 2025-02-28 |
| Wideband Communication Test Set, Call Box          | R&S GmbH & Co. KG           | CMW500                 | 85943              | 2025-02-28 |
| Directional Coupler                                | KRYTAR                      | 152610                 | 198816             | 2024-10-31 |
| Directional Coupler                                | KRYTAR                      | 152610                 | 231664             | 2025-01-22 |
| Power Meter, P-series single channel               | Keysight                    | N1912A                 | 90719              | 2025-01-31 |
| Power Sensor, P - series, 50MHz to 18GHz, Wideband | Keysight                    | N1921A                 | 81319              | 2025-01-31 |
| Filter, HPF 1.2GHz                                 | Wainwright Instruments GmbH | WHKX6-948-1.2/15G-40ST | 99                 | 2024-10-31 |
| Spectrum Analyzer, PXA, 2Hz to 44GHz               | Keysight                    | N9030B                 | 231739             | 2025-01-31 |
| Spectrum Analyzer, PXA, 2Hz to 44GHz               | Keysight                    | N9030B                 | 245120             | 2025-02-28 |
| Spectrum Analyzer, PXA, 3Hz to 44GHz               | Keysight                    | N9030A                 | 85212              | 2025-02-28 |
| Wideband Communication Test Set, Call Box          | R&S GmbH & Co. KG           | CMW500                 | 222793             | 2025-02-28 |
| Wideband Communication Test Set, Call Box          | R&S GmbH & Co. KG           | CMW500                 | 222797             | 2025-02-28 |
| Chamber, Environmental                             | Thermotron Corp.            | SM-16C Mini-Max        | 179936             | 2024-06-30 |
| Transmitting Antenna, Horn Antenna                 | TEKBOX Digital Solutions    | TBMA4                  | 226709             | C.N.R.     |
| Antenna, Horn 18 to 26.5GHz                        | A.R.A.                      | MWH-1826/B             | 199659             | 2024-12-31 |
| Amplifier 18-26.5GHz, +5Vdc, -54dBm P1dB           | AMPLICAL                    | AMP18G26.5-60          | 234683             | 2025-05-31 |
| DC Power Supply                                    | GWINSTEK                    | GPS18500               | N/A                | C.N.R.     |
| Conducted Switch Box                               | N/A                         | CSB                    | 208281             | 2025-05-08 |
| Antenna, Passive Loop 30Hz - 1MHz                  | ELECTRO-METRICS             | EM-6871                | 170014             | 2024-08-31 |
| Antenna, Passive Loop 100KHz - 30MHz               | ELECTRO-METRICS             | EM-6872                | 170016             | 2024-08-31 |
| UL AUTOMATION SOFTWARE                             |                             |                        |                    |            |
| CLT Software                                       | UL                          | UL RF                  | V2023.11.21.0      |            |
| Power Measurement Software                         | UL                          | UL RF                  | V2023.08.14.0      |            |
| Radiated test software                             | UL                          | UL RF                  | Ver 9.5 2023-05-01 |            |

### NOTES:

- \* Testing is completed before equipment expiration date.

## 8. RF OUTPUT POWER MEASUREMENTS

### 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:

## 8.1.1. 5G NR n41

|                   |       |            |            |
|-------------------|-------|------------|------------|
| Test Engineer ID: | 26857 | Test Date: | 2024-01-22 |
|-------------------|-------|------------|------------|

### OUTPUT POWER FOR 5G NR n41 (10.0 MHz)

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |        |        |        |        |        |         |        |        |
|--------------------|------------|------------------|--------------|-------------------------|--------|--------|--------|--------|--------|---------|--------|--------|
|                    |            |                  |              | ANT 1                   |        |        | ANT 2  |        |        | ANT 1+2 |        |        |
|                    |            |                  |              | 500200                  | 518600 | 537000 | 500200 | 518600 | 537000 | 500200  | 518600 | 537000 |
| 10.0               | BPSK       | 1                | 0            | 2501.0                  | 2593.0 | 2685.0 | 2501.0 | 2593.0 | 2685.0 | 2501.0  | 2593.0 | 2685.0 |
|                    |            | 1                | 0            | 21.99                   | 22.22  | 21.81  | 21.79  | 22.27  | 21.92  | 24.90   | 25.26  | 24.88  |
|                    |            | 1                | 1            | 21.99                   | 28.03  | 27.28  | 21.92  | 26.00  | 26.00  | 24.97   | 30.14  | 29.70  |
|                    |            | 1                | 22           | 27.51                   | 28.18  | 27.38  | 27.27  | 28.13  | 27.33  | 30.40   | 31.17  | 30.37  |
|                    |            | 1                | 23           | 21.52                   | 22.31  | 21.88  | 21.65  | 22.64  | 21.60  | 24.60   | 25.49  | 24.75  |
|                    |            | 12               | 6            | 23.78                   | 26.52  | 25.58  | 23.90  | 26.25  | 25.86  | 26.85   | 29.40  | 28.73  |
|                    | QPSK       | 24               | 0            | 24.11                   | 26.44  | 25.94  | 23.97  | 26.56  | 25.80  | 27.05   | 29.51  | 28.88  |
|                    |            | 1                | 0            | 21.41                   | 21.82  | 21.44  | 21.18  | 21.82  | 21.46  | 24.31   | 24.83  | 24.46  |
|                    |            | 1                | 1            | 21.56                   | 28.05  | 27.16  | 21.25  | 27.82  | 27.13  | 24.42   | 30.95  | 30.16  |
|                    |            | 1                | 22           | 27.43                   | 27.83  | 27.15  | 27.51  | 27.73  | 27.11  | 30.48   | 30.79  | 30.14  |
|                    |            | 1                | 23           | 21.07                   | 22.21  | 21.20  | 21.37  | 22.11  | 21.23  | 24.23   | 25.17  | 24.23  |
|                    |            | 12               | 6            | 22.82                   | 25.88  | 25.13  | 22.98  | 25.90  | 25.02  | 25.91   | 28.90  | 28.09  |
|                    | 16QAM      | 24               | 0            | 23.15                   | 25.72  | 25.32  | 22.89  | 26.07  | 25.10  | 26.03   | 28.91  | 28.22  |
|                    |            | 1                | 0            | 21.23                   | 21.77  | 21.30  | 21.23  | 21.85  | 21.24  | 24.24   | 24.82  | 24.28  |
|                    |            | 1                | 1            | 21.21                   | 27.04  | 26.27  | 21.25  | 26.82  | 26.50  | 24.24   | 29.94  | 29.40  |
|                    |            | 1                | 22           | 26.48                   | 26.80  | 26.31  | 26.45  | 27.01  | 26.26  | 29.48   | 29.92  | 29.30  |
|                    |            | 1                | 23           | 21.26                   | 21.74  | 21.38  | 21.21  | 21.73  | 21.21  | 24.25   | 24.75  | 24.31  |
|                    |            | 12               | 6            | 22.44                   | 24.92  | 24.18  | 22.45  | 25.14  | 24.19  | 25.46   | 28.04  | 27.20  |
|                    | 64QAM      | 24               | 0            | 22.28                   | 25.13  | 24.46  | 22.63  | 24.72  | 24.21  | 25.47   | 27.94  | 27.35  |
|                    |            | 1                | 0            | 20.80                   | 21.99  | 21.17  | 20.84  | 21.99  | 21.21  | 23.83   | 25.00  | 24.20  |
|                    |            | 1                | 1            | 21.20                   | 25.16  | 24.50  | 20.84  | 24.99  | 24.05  | 24.03   | 28.09  | 27.29  |
|                    |            | 1                | 22           | 24.20                   | 24.76  | 24.38  | 24.31  | 25.12  | 24.16  | 27.27   | 27.95  | 27.28  |
|                    |            | 1                | 23           | 21.38                   | 21.82  | 22.03  | 21.14  | 21.84  | 22.23  | 24.27   | 24.84  | 25.14  |
|                    |            | 12               | 6            | 22.57                   | 24.67  | 24.01  | 22.30  | 24.68  | 23.64  | 25.45   | 27.69  | 26.84  |
|                    | 256QAM     | 24               | 0            | 22.31                   | 24.54  | 23.51  | 22.60  | 24.43  | 23.54  | 25.47   | 27.50  | 26.54  |
|                    |            | 1                | 0            | 19.32                   | 22.03  | 21.48  | 19.66  | 21.83  | 21.36  | 22.50   | 24.94  | 24.43  |
|                    |            | 1                | 1            | 19.29                   | 21.92  | 21.24  | 19.49  | 22.15  | 21.31  | 22.40   | 25.05  | 24.29  |
|                    |            | 1                | 22           | 21.03                   | 21.96  | 21.29  | 21.06  | 21.80  | 21.38  | 24.06   | 24.89  | 24.35  |
|                    |            | 1                | 23           | 21.02                   | 21.75  | 21.07  | 21.51  | 21.95  | 21.03  | 24.28   | 24.86  | 24.06  |
|                    |            | 12               | 6            | 21.20                   | 21.87  | 21.12  | 20.89  | 21.85  | 21.22  | 24.06   | 24.87  | 24.18  |
|                    |            | 24               | 0            | 20.75                   | 22.14  | 21.28  | 21.06  | 22.02  | 21.42  | 23.92   | 25.09  | 24.36  |

### OUTPUT POWER FOR 5G NR n41 (15.0 MHz)

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |        |        |        |        |        |         |        |        |
|--------------------|------------|------------------|--------------|-------------------------|--------|--------|--------|--------|--------|---------|--------|--------|
|                    |            |                  |              | ANT 1                   |        |        | ANT 2  |        |        | ANT 1+2 |        |        |
|                    |            |                  |              | 500700                  | 518600 | 536500 | 500700 | 518600 | 536500 | 500700  | 518600 | 536500 |
| 15.0               | BPSK       | 1                | 0            | 2503.5                  | 2593.0 | 2682.5 | 2503.5 | 2593.0 | 2682.5 | 2503.5  | 2593.0 | 2682.5 |
|                    |            | 1                | 0            | 21.68                   | 22.49  | 21.82  | 21.86  | 22.61  | 21.63  | 24.78   | 25.56  | 24.74  |
|                    |            | 1                | 1            | 22.11                   | 28.00  | 27.13  | 22.14  | 27.00  | 21.84  | 25.14   | 30.54  | 28.26  |
|                    |            | 1                | 36           | 27.30                   | 28.04  | 27.49  | 27.28  | 27.75  | 27.39  | 30.30   | 30.91  | 30.45  |
|                    |            | 1                | 37           | 21.56                   | 22.45  | 21.52  | 21.93  | 22.57  | 21.86  | 24.76   | 25.52  | 24.70  |
|                    |            | 18               | 9            | 23.76                   | 26.30  | 25.82  | 24.18  | 26.26  | 25.64  | 26.99   | 29.29  | 28.74  |
|                    | QPSK       | 36               | 0            | 24.00                   | 26.27  | 25.68  | 23.96  | 26.46  | 25.66  | 26.99   | 29.38  | 28.68  |
|                    |            | 1                | 0            | 21.46                   | 21.99  | 21.20  | 21.27  | 22.16  | 21.48  | 24.38   | 25.09  | 24.35  |
|                    |            | 1                | 1            | 21.70                   | 28.08  | 27.03  | 21.54  | 27.93  | 27.40  | 24.63   | 31.02  | 30.23  |
|                    |            | 1                | 36           | 27.32                   | 27.95  | 27.39  | 27.12  | 27.78  | 27.17  | 30.23   | 30.88  | 30.29  |
|                    |            | 1                | 37           | 21.09                   | 21.78  | 21.16  | 21.33  | 22.13  | 21.28  | 24.22   | 24.97  | 24.23  |
|                    |            | 18               | 9            | 22.92                   | 26.01  | 25.45  | 22.99  | 25.96  | 25.08  | 25.97   | 29.00  | 28.28  |
|                    | 16QAM      | 36               | 0            | 23.08                   | 26.18  | 25.26  | 22.76  | 26.19  | 25.08  | 25.93   | 29.20  | 28.18  |
|                    |            | 1                | 0            | 21.12                   | 21.98  | 21.06  | 21.39  | 22.06  | 21.37  | 24.27   | 25.03  | 24.23  |
|                    |            | 1                | 1            | 21.62                   | 27.15  | 26.21  | 21.42  | 26.78  | 26.04  | 24.53   | 29.98  | 29.14  |
|                    |            | 1                | 36           | 26.42                   | 27.21  | 26.24  | 26.04  | 27.16  | 26.03  | 29.24   | 30.20  | 29.15  |
|                    |            | 1                | 37           | 21.39                   | 21.96  | 21.36  | 21.23  | 22.21  | 21.03  | 24.32   | 25.10  | 24.21  |
|                    |            | 18               | 9            | 22.37                   | 24.86  | 24.49  | 22.69  | 24.80  | 24.50  | 25.54   | 27.84  | 27.51  |
|                    | 64QAM      | 36               | 0            | 22.37                   | 24.71  | 24.45  | 22.66  | 24.90  | 24.12  | 25.53   | 27.82  | 27.30  |
|                    |            | 1                | 0            | 21.16                   | 22.11  | 21.24  | 20.76  | 22.06  | 21.38  | 23.97   | 25.10  | 24.32  |
|                    |            | 1                | 1            | 20.78                   | 25.13  | 24.26  | 20.80  | 25.07  | 24.21  | 23.80   | 28.11  | 27.25  |
|                    |            | 1                | 36           | 24.16                   | 24.81  | 24.33  | 24.04  | 25.02  | 24.23  | 27.11   | 27.93  | 27.29  |
|                    |            | 1                | 37           | 21.43                   | 22.09  | 22.17  | 21.07  | 22.02  | 22.17  | 24.26   | 25.07  | 25.18  |
|                    |            | 18               | 9            | 22.54                   | 24.48  | 23.60  | 22.27  | 24.50  | 23.55  | 25.42   | 27.50  | 26.59  |
|                    | 256QAM     | 36               | 0            | 22.30                   | 24.49  | 23.62  | 22.37  | 24.50  | 23.96  | 25.35   | 27.51  | 26.80  |
|                    |            | 1                | 0            | 19.69                   | 22.00  | 21.43  | 19.66  | 22.19  | 21.34  | 22.69   | 25.11  | 24.40  |
|                    |            | 1                | 1            | 19.49                   | 22.01  | 21.34  | 19.25  | 22.06  | 21.04  | 22.38   | 25.05  | 24.20  |
|                    |            | 1                | 36           | 21.40                   | 22.08  | 21.44  | 21.41  | 21.72  | 21.16  | 24.42   | 24.91  | 24.31  |
|                    |            | 1                | 37           | 21.32                   | 22.18  | 21.15  | 21.11  | 21.92  | 21.06  | 24.23   | 25.06  | 24.12  |
|                    |            | 18               | 9            | 21.03                   | 21.92  | 21.30  | 20.92  | 21.74  | 21.33  | 23.99   | 24.84  | 24.33  |
|                    |            | 36               | 0            | 21.06                   | 22.09  | 21.32  | 20.98  | 22.11  | 21.27  | 24.03   | 25.11  | 24.31  |

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

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |              |        |        |              |        |         |              |        |
|--------------------|------------|------------------|--------------|-------------------------|--------------|--------|--------|--------------|--------|---------|--------------|--------|
|                    |            |                  |              | ANT 1                   |              |        | ANT 2  |              |        | ANT 1+2 |              |        |
|                    |            |                  |              | 501200                  | 518600       | 536000 | 501200 | 518600       | 536000 | 501200  | 518600       | 536000 |
| 20.0               | BPSK       | 1                | 0            | 21.81                   | 22.42        | 21.98  | 22.04  | 22.56        | 21.74  | 24.94   | 25.50        | 24.87  |
|                    |            | 1                | 1            | 22.28                   | 27.97        | 27.34  | 22.16  | <b>28.15</b> | 27.12  | 25.23   | <b>31.07</b> | 30.24  |
|                    |            | 1                | 49           | 27.44                   | <b>28.19</b> | 27.31  | 27.36  | 27.84        | 27.48  | 30.41   | 31.03        | 30.41  |
|                    |            | 1                | 50           | 21.80                   | 22.64        | 21.77  | 21.95  | 22.55        | 21.93  | 24.89   | 25.61        | 24.86  |
|                    |            | 25               | 12           | 24.10                   | 26.35        | 26.25  | 24.12  | 26.71        | 25.85  | 27.12   | 29.54        | 29.06  |
|                    | QPSK       | 50               | 0            | 24.10                   | 26.43        | 25.97  | 24.02  | 26.43        | 25.86  | 27.07   | 29.44        | 28.93  |
|                    |            | 1                | 0            | 21.76                   | 21.83        | 21.29  | 21.51  | 22.03        | 21.66  | 24.65   | 24.94        | 24.49  |
|                    |            | 1                | 1            | 21.94                   | 28.13        | 27.36  | 21.90  | 27.88        | 27.18  | 24.93   | 31.02        | 30.28  |
|                    |            | 1                | 49           | 27.17                   | <b>28.16</b> | 27.14  | 27.73  | <b>27.97</b> | 27.30  | 30.47   | <b>31.08</b> | 30.23  |
|                    |            | 1                | 50           | 21.62                   | 21.75        | 21.71  | 21.53  | 22.13        | 21.47  | 24.59   | 24.95        | 24.60  |
|                    | 16QAM      | 25               | 12           | 22.98                   | 25.79        | 25.44  | 22.78  | 26.10        | 25.35  | 25.89   | 28.96        | 28.41  |
|                    |            | 50               | 0            | 23.10                   | 25.90        | 25.12  | 22.82  | 25.81        | 25.73  | 25.97   | 28.87        | 28.45  |
|                    |            | 1                | 0            | 21.51                   | 21.92        | 21.70  | 21.32  | 22.10        | 21.24  | 24.43   | 25.02        | 24.49  |
|                    |            | 1                | 1            | 21.66                   | 27.05        | 26.61  | 21.71  | <b>26.85</b> | 26.40  | 24.70   | 29.96        | 29.52  |
|                    |            | 1                | 49           | 26.25                   | <b>27.16</b> | 26.60  | 26.51  | <b>26.85</b> | 26.29  | 29.39   | <b>30.02</b> | 29.46  |
|                    | 64QAM      | 1                | 50           | 21.29                   | 22.14        | 21.51  | 21.44  | 22.02        | 21.45  | 24.38   | 25.09        | 24.49  |
|                    |            | 25               | 12           | 22.56                   | 24.82        | 24.47  | 22.62  | 24.99        | 24.15  | 25.60   | 27.92        | 27.32  |
|                    |            | 50               | 0            | 22.71                   | 24.89        | 24.40  | 22.66  | 24.86        | 24.52  | 25.70   | 27.89        | 27.47  |
|                    |            | 1                | 0            | 21.13                   | 22.15        | 21.68  | 21.51  | 21.79        | 21.52  | 24.33   | 24.98        | 24.61  |
|                    |            | 1                | 1            | 21.33                   | <b>25.14</b> | 24.63  | 20.89  | <b>24.93</b> | 24.30  | 24.13   | <b>28.05</b> | 27.48  |
|                    | 256QAM     | 1                | 49           | 24.43                   | 25.01        | 24.31  | 24.19  | 24.79        | 24.45  | 27.32   | 27.91        | 27.39  |
|                    |            | 1                | 50           | 21.28                   | 22.11        | 22.18  | 21.42  | 22.14        | 22.08  | 24.36   | 25.14        | 25.14  |
|                    |            | 25               | 12           | 22.70                   | 24.58        | 23.89  | 22.71  | 24.69        | 24.01  | 25.72   | 27.65        | 26.96  |
|                    |            | 50               | 0            | 22.49                   | 24.53        | 23.91  | 22.71  | 24.51        | 23.59  | 25.61   | 27.53        | 26.76  |
|                    |            | 1                | 0            | 19.70                   | <b>22.14</b> | 21.60  | 19.68  | 21.72        | 21.29  | 22.70   | 24.95        | 24.46  |
|                    |            | 1                | 1            | 19.65                   | 21.90        | 21.34  | 19.89  | 21.90        | 21.80  | 22.78   | 24.91        | 24.59  |
|                    |            | 1                | 49           | 21.26                   | 22.13        | 21.74  | 21.31  | 22.00        | 21.28  | 24.30   | 25.08        | 24.53  |
|                    |            | 1                | 50           | 21.58                   | 21.92        | 21.48  | 21.43  | 21.80        | 21.62  | 24.52   | 24.87        | 24.56  |
|                    |            | 25               | 12           | 21.20                   | 21.90        | 21.47  | 21.08  | 21.74        | 21.52  | 24.15   | 24.83        | 24.51  |
|                    |            | 50               | 0            | 21.15                   | 22.11        | 21.39  | 21.60  | <b>22.17</b> | 21.40  | 24.39   | <b>25.15</b> | 24.41  |

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

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |              |        |        |              |        |         |              |        |
|--------------------|------------|------------------|--------------|-------------------------|--------------|--------|--------|--------------|--------|---------|--------------|--------|
|                    |            |                  |              | ANT 1                   |              |        | ANT 2  |              |        | ANT 1+2 |              |        |
|                    |            |                  |              | 502200                  | 518600       | 525000 | 502200 | 518600       | 525000 | 502200  | 518600       | 525000 |
| 30.0               | BPSK       | 1                | 0            | 21.79                   | 22.47        | 21.63  | 21.55  | 22.24        | 21.83  | 24.68   | 25.37        | 24.74  |
|                    |            | 1                | 1            | 21.97                   | 27.89        | 27.11  | 21.85  | 27.89        | 27.27  | 24.92   | 30.90        | 30.20  |
|                    |            | 1                | 76           | 27.06                   | <b>28.17</b> | 27.23  | 27.38  | <b>27.94</b> | 27.30  | 30.23   | <b>31.07</b> | 30.28  |
|                    |            | 1                | 77           | 21.61                   | 22.35        | 21.90  | 21.53  | 22.26        | 21.83  | 24.58   | 25.32        | 24.88  |
|                    |            | 36               | 18           | 23.79                   | 26.49        | 25.68  | 24.20  | 26.23        | 25.96  | 27.01   | 29.37        | 28.83  |
|                    | QPSK       | 75               | 0            | 23.85                   | 26.36        | 26.01  | 24.12  | 26.86        | 25.83  | 27.00   | 29.63        | 28.93  |
|                    |            | 1                | 0            | 21.25                   | 22.16        | 21.05  | 21.50  | 22.02        | 21.11  | 24.39   | 25.10        | 24.09  |
|                    |            | 1                | 1            | 21.51                   | 27.85        | 27.41  | 21.40  | <b>28.17</b> | 27.16  | 24.47   | 31.02        | 30.30  |
|                    |            | 1                | 76           | 27.06                   | <b>28.12</b> | 27.23  | 27.47  | 28.03        | 27.08  | 30.28   | <b>31.09</b> | 30.17  |
|                    |            | 1                | 77           | 21.25                   | 21.76        | 21.22  | 21.42  | 22.10        | 21.21  | 24.35   | 24.94        | 24.23  |
|                    | 16QAM      | 36               | 18           | 23.15                   | 25.74        | 25.49  | 23.13  | 25.85        | 25.04  | 26.15   | 28.81        | 28.28  |
|                    |            | 75               | 0            | 22.74                   | 25.96        | 25.04  | 22.88  | 25.95        | 25.43  | 25.82   | 28.97        | 28.25  |
|                    |            | 1                | 0            | 21.33                   | 21.81        | 21.31  | 21.27  | 22.12        | 21.37  | 24.31   | 24.98        | 24.35  |
|                    |            | 1                | 1            | 21.43                   | <b>27.01</b> | 26.13  | 21.67  | 26.82        | 26.21  | 24.56   | <b>29.93</b> | 29.18  |
|                    |            | 1                | 76           | 26.06                   | 26.76        | 26.39  | 26.19  | <b>27.03</b> | 26.37  | 29.14   | 29.91        | 29.39  |
|                    | 64QAM      | 1                | 77           | 21.07                   | 21.91        | 21.55  | 21.51  | 21.96        | 21.02  | 24.31   | 24.95        | 24.30  |
|                    |            | 36               | 18           | 22.35                   | 25.19        | 24.31  | 22.66  | 25.12        | 24.20  | 25.52   | 28.17        | 27.27  |
|                    |            | 75               | 0            | 22.42                   | 25.17        | 24.27  | 22.37  | 25.05        | 24.36  | 25.41   | 28.12        | 27.33  |
|                    |            | 1                | 0            | 21.05                   | 22.49        | 21.68  | 20.86  | 22.13        | 21.21  | 23.97   | 25.32        | 24.46  |
|                    |            | 1                | 1            | 20.96                   | 25.13        | 24.30  | 20.94  | <b>24.84</b> | 24.42  | 23.96   | 28.00        | 27.37  |
|                    | 256QAM     | 1                | 76           | 24.41                   | <b>25.19</b> | 24.34  | 24.19  | 24.82        | 24.14  | 27.31   | <b>28.02</b> | 27.25  |
|                    |            | 1                | 77           | 21.40                   | 21.98        | 22.24  | 21.35  | 21.99        | 22.23  | 24.39   | 25.00        | 25.25  |
|                    |            | 36               | 18           | 22.22                   | 24.92        | 23.91  | 22.45  | 24.71        | 23.69  | 25.35   | 27.83        | 26.81  |
|                    |            | 75               | 0            | 22.30                   | 24.64        | 23.98  | 22.38  | 24.32        | 23.84  | 25.35   | 27.49        | 26.92  |
|                    |            | 1                | 0            | 19.56                   | <b>22.23</b> | 21.24  | 19.24  | 21.99        | 21.42  | 22.41   | 25.12        | 24.34  |
|                    |            | 1                | 1            | 19.68                   | 22.16        | 21.16  | 19.23  | 22.07        | 21.17  | 22.47   | <b>25.13</b> | 24.18  |
|                    |            | 1                | 76           | 21.18                   | 22.06        | 21.09  | 21.43  | 22.10        | 21.25  | 24.32   | 25.09        | 24.18  |
|                    |            | 1                | 77           | 21.30                   | 21.88        | 21.22  | 21.29  | 21.96        | 21.10  | 24.31   | 24.93        | 24.17  |
|                    |            | 36               | 18           | 20.82                   | 22.06        | 21.37  | 20.75  | 21.92        | 21.11  | 23.80   | 25.00        | 24.25  |
|                    |            | 75               | 0            | 20.97                   | 21.82        | 21.05  | 20.72  | <b>22.17</b> | 21.42  | 23.86   | 25.01        | 24.25  |

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

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |        |        |        |        |        |         |        |        |
|--------------------|------------|------------------|--------------|-------------------------|--------|--------|--------|--------|--------|---------|--------|--------|
|                    |            |                  |              | ANT 1                   |        |        | ANT 2  |        |        | ANT 1+2 |        |        |
|                    |            |                  |              | 503200                  | 518600 | 534000 | 503200 | 518600 | 534000 | 503200  | 518600 | 534000 |
| 40.0               | BPSK       | 1                | 0            | 2516.0                  | 2593.0 | 2670.0 | 2516.0 | 2593.0 | 2670.0 | 2516.0  | 2593.0 | 2670.0 |
|                    |            | 1                | 1            | 21.74                   | 22.46  | 21.70  | 21.54  | 22.26  | 21.53  | 24.65   | 25.37  | 24.63  |
|                    |            | 1                | 1            | 21.94                   | 28.07  | 27.18  | 21.77  | 28.21  | 27.16  | 24.87   | 31.15  | 30.18  |
|                    |            | 1                | 104          | 27.14                   | 27.77  | 27.24  | 27.19  | 27.75  | 27.19  | 30.18   | 30.77  | 30.23  |
|                    |            | 1                | 105          | 21.79                   | 22.63  | 21.85  | 21.99  | 22.43  | 21.98  | 24.90   | 25.54  | 24.93  |
|                    |            | 50               | 25           | 23.86                   | 26.22  | 25.79  | 24.19  | 26.31  | 26.01  | 27.04   | 29.28  | 28.91  |
|                    | QPSK       | 100              | 0            | 24.12                   | 26.62  | 25.62  | 23.85  | 26.45  | 25.57  | 27.00   | 29.55  | 28.61  |
|                    |            | 1                | 0            | 21.43                   | 22.19  | 21.43  | 21.35  | 21.99  | 21.12  | 24.40   | 25.10  | 24.29  |
|                    |            | 1                | 1            | 21.38                   | 27.89  | 27.45  | 21.48  | 27.92  | 27.33  | 24.44   | 30.92  | 30.40  |
|                    |            | 1                | 104          | 27.41                   | 27.79  | 27.24  | 27.37  | 27.85  | 27.19  | 30.40   | 30.83  | 30.23  |
|                    |            | 1                | 105          | 21.08                   | 22.15  | 21.33  | 21.30  | 22.17  | 21.26  | 24.20   | 25.17  | 24.31  |
|                    |            | 50               | 25           | 22.77                   | 25.88  | 25.25  | 23.01  | 26.16  | 25.20  | 25.90   | 29.03  | 28.24  |
|                    | 16QAM      | 100              | 0            | 22.75                   | 25.79  | 25.12  | 22.73  | 25.88  | 25.50  | 25.75   | 28.85  | 28.32  |
|                    |            | 1                | 0            | 21.41                   | 22.17  | 21.36  | 21.08  | 21.88  | 21.31  | 24.26   | 25.04  | 24.35  |
|                    |            | 1                | 1            | 21.48                   | 27.09  | 26.42  | 21.61  | 26.77  | 26.34  | 24.56   | 29.94  | 29.39  |
|                    |            | 1                | 104          | 26.31                   | 26.82  | 26.36  | 26.19  | 26.93  | 26.07  | 29.26   | 29.89  | 29.23  |
|                    |            | 1                | 105          | 21.47                   | 22.04  | 21.50  | 21.45  | 21.94  | 21.44  | 24.47   | 25.00  | 24.48  |
|                    |            | 50               | 25           | 22.58                   | 25.13  | 24.03  | 22.71  | 24.75  | 24.51  | 25.66   | 27.95  | 27.29  |
|                    | 64QAM      | 100              | 0            | 22.64                   | 24.97  | 24.28  | 22.67  | 25.02  | 24.41  | 25.67   | 28.01  | 27.36  |
|                    |            | 1                | 0            | 20.84                   | 22.15  | 21.20  | 20.74  | 21.74  | 21.38  | 23.80   | 24.96  | 24.30  |
|                    |            | 1                | 1            | 20.81                   | 25.00  | 24.44  | 21.20  | 25.20  | 24.06  | 24.02   | 28.11  | 27.26  |
|                    |            | 1                | 104          | 24.19                   | 24.81  | 24.11  | 24.14  | 25.10  | 24.26  | 27.18   | 27.97  | 27.20  |
|                    |            | 1                | 105          | 21.11                   | 22.00  | 22.30  | 21.16  | 21.74  | 22.09  | 24.15   | 24.88  | 25.21  |
|                    |            | 50               | 25           | 22.56                   | 24.60  | 23.81  | 22.69  | 24.41  | 23.78  | 25.64   | 27.52  | 26.81  |
|                    | 256QAM     | 100              | 0            | 22.62                   | 24.60  | 23.83  | 22.30  | 24.22  | 23.82  | 25.47   | 27.42  | 26.84  |
|                    |            | 1                | 0            | 19.44                   | 21.74  | 21.46  | 19.43  | 21.86  | 21.14  | 22.45   | 24.81  | 24.31  |
|                    |            | 1                | 1            | 19.54                   | 21.84  | 21.06  | 19.28  | 21.78  | 21.48  | 22.42   | 24.82  | 24.29  |
|                    |            | 1                | 104          | 21.45                   | 22.08  | 21.44  | 21.48  | 21.77  | 21.34  | 24.48   | 24.94  | 24.40  |
|                    |            | 1                | 105          | 21.04                   | 21.92  | 21.49  | 21.07  | 22.01  | 21.39  | 24.07   | 24.98  | 24.45  |
|                    |            | 50               | 25           | 21.11                   | 22.01  | 21.20  | 21.13  | 22.07  | 21.07  | 24.13   | 25.05  | 24.15  |
|                    |            | 100              | 0            | 21.05                   | 22.11  | 21.43  | 21.03  | 22.05  | 21.28  | 24.05   | 25.09  | 24.37  |

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

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |        |        |        |        |        |         |        |        |
|--------------------|------------|------------------|--------------|-------------------------|--------|--------|--------|--------|--------|---------|--------|--------|
|                    |            |                  |              | ANT 1                   |        |        | ANT 2  |        |        | ANT 1+2 |        |        |
|                    |            |                  |              | 504200                  | 518600 | 533000 | 504200 | 518600 | 533000 | 504200  | 518600 | 533000 |
| 50.0               | BPSK       | 1                | 0            | 2521.0                  | 2593.0 | 2665.0 | 2521.0 | 2593.0 | 2665.0 | 2521.0  | 2593.0 | 2665.0 |
|                    |            | 1                | 1            | 21.59                   | 22.42  | 21.98  | 21.60  | 22.31  | 21.80  | 24.61   | 25.38  | 24.90  |
|                    |            | 1                | 1            | 22.11                   | 27.93  | 27.38  | 22.13  | 27.90  | 27.41  | 25.13   | 30.93  | 30.41  |
|                    |            | 1                | 131          | 27.22                   | 27.97  | 27.24  | 27.21  | 28.12  | 27.30  | 30.23   | 31.06  | 30.28  |
|                    |            | 1                | 132          | 21.99                   | 22.50  | 21.52  | 21.53  | 22.64  | 21.76  | 24.78   | 25.58  | 24.65  |
|                    |            | 64               | 32           | 23.77                   | 26.33  | 25.86  | 23.88  | 26.43  | 25.78  | 26.84   | 29.39  | 28.83  |
|                    | QPSK       | 128              | 0            | 23.91                   | 26.45  | 25.73  | 23.77  | 26.64  | 25.71  | 26.85   | 29.56  | 28.73  |
|                    |            | 1                | 0            | 21.09                   | 21.92  | 21.03  | 21.33  | 21.97  | 21.39  | 24.22   | 24.96  | 24.22  |
|                    |            | 1                | 1            | 21.50                   | 27.95  | 27.04  | 21.70  | 28.06  | 27.10  | 24.61   | 31.02  | 30.08  |
|                    |            | 1                | 131          | 27.17                   | 28.12  | 27.46  | 27.16  | 28.20  | 27.30  | 30.18   | 31.17  | 30.39  |
|                    |            | 1                | 132          | 21.47                   | 21.83  | 21.18  | 21.50  | 21.88  | 21.25  | 24.50   | 24.87  | 24.23  |
|                    |            | 64               | 32           | 23.06                   | 26.05  | 25.27  | 23.20  | 25.72  | 25.18  | 26.14   | 28.90  | 28.24  |
|                    | 16QAM      | 128              | 0            | 22.81                   | 25.81  | 25.34  | 23.05  | 25.78  | 25.36  | 25.94   | 28.81  | 28.36  |
|                    |            | 1                | 0            | 21.11                   | 22.17  | 21.06  | 21.35  | 21.76  | 21.23  | 24.24   | 24.98  | 24.16  |
|                    |            | 1                | 1            | 21.31                   | 27.11  | 26.41  | 21.54  | 26.77  | 26.26  | 24.44   | 29.95  | 29.35  |
|                    |            | 1                | 131          | 26.46                   | 27.12  | 26.19  | 26.29  | 27.08  | 26.25  | 29.39   | 30.11  | 29.23  |
|                    |            | 1                | 132          | 21.15                   | 21.86  | 21.08  | 21.13  | 21.81  | 21.41  | 24.15   | 24.85  | 24.26  |
|                    |            | 64               | 32           | 22.68                   | 25.05  | 24.41  | 22.34  | 24.98  | 24.48  | 25.52   | 28.03  | 27.46  |
|                    | 64QAM      | 128              | 0            | 22.57                   | 24.85  | 24.33  | 22.26  | 24.78  | 24.04  | 25.43   | 27.83  | 27.20  |
|                    |            | 1                | 0            | 21.16                   | 21.86  | 21.38  | 20.93  | 22.12  | 21.18  | 24.06   | 25.00  | 24.29  |
|                    |            | 1                | 1            | 20.95                   | 25.09  | 24.05  | 20.94  | 25.14  | 24.46  | 23.96   | 28.13  | 27.27  |
|                    |            | 1                | 131          | 24.45                   | 25.08  | 24.50  | 24.29  | 25.20  | 24.10  | 27.38   | 28.15  | 27.31  |
|                    |            | 1                | 132          | 21.26                   | 21.81  | 22.29  | 21.32  | 22.04  | 22.42  | 24.30   | 24.94  | 25.37  |
|                    |            | 64               | 32           | 22.57                   | 24.37  | 23.73  | 22.55  | 24.35  | 23.95  | 25.57   | 27.37  | 26.85  |
|                    | 256QAM     | 128              | 0            | 22.70                   | 24.64  | 23.95  | 22.68  | 24.58  | 23.77  | 25.70   | 27.62  | 26.87  |
|                    |            | 1                | 0            | 19.62                   | 21.73  | 21.20  | 19.66  | 22.06  | 21.08  | 22.65   | 24.91  | 24.15  |
|                    |            | 1                | 1            | 19.29                   | 22.08  | 21.51  | 19.50  | 22.11  | 21.02  | 22.41   | 25.11  | 24.28  |
|                    |            | 1                | 131          | 21.09                   | 22.10  | 21.51  | 21.47  | 22.15  | 21.24  | 24.29   | 25.14  | 24.39  |
|                    |            | 1                | 132          | 21.21                   | 21.90  | 21.39  | 21.38  | 22.17  | 21.44  | 24.31   | 25.05  | 24.43  |
|                    |            | 64               | 32           | 21.21                   | 21.99  | 21.31  | 21.16  | 22.03  | 21.25  | 24.20   | 25.02  | 24.29  |
|                    |            | 128              | 0            | 21.15                   | 22.09  | 21.08  | 21.01  | 22.03  | 21.02  | 24.09   | 25.07  | 24.06  |

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

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |              |        |        |              |        |         |              |        |
|--------------------|------------|------------------|--------------|-------------------------|--------------|--------|--------|--------------|--------|---------|--------------|--------|
|                    |            |                  |              | ANT 1                   |              |        | ANT 2  |              |        | ANT 1+2 |              |        |
|                    |            |                  |              | 505200                  | 518600       | 532000 | 505200 | 518600       | 532000 | 505200  | 518600       | 532000 |
| 60.0               | BPSK       | 1                | 0            | 21.45                   | 22.16        | 21.79  | 21.45  | 22.18        | 21.65  | 24.46   | 25.18        | 24.73  |
|                    |            | 1                | 1            | 22.08                   | 27.66        | 27.25  | 21.66  | <b>28.05</b> | 27.14  | 24.89   | <b>30.87</b> | 30.21  |
|                    |            | 1                | 160          | 26.99                   | <b>27.73</b> | 27.01  | 27.33  | 27.94        | 27.24  | 30.17   | 30.85        | 30.14  |
|                    |            | 1                | 161          | 21.85                   | 22.19        | 21.77  | 21.62  | 22.28        | 21.58  | 24.75   | 25.25        | 24.69  |
|                    |            | 81               | 40           | 23.79                   | 26.54        | 25.74  | 23.92  | 26.42        | 25.61  | 26.87   | 29.49        | 28.69  |
|                    |            | 162              | 0            | 23.67                   | 26.53        | 25.42  | 23.79  | 26.57        | 25.77  | 26.74   | 29.56        | 28.61  |
|                    |            | 1                | 0            | 21.14                   | 22.07        | 21.13  | 21.01  | 22.07        | 21.39  | 24.09   | 25.08        | 24.27  |
|                    |            | 1                | 1            | 21.29                   | 27.80        | 27.37  | 21.31  | 27.78        | 27.24  | 24.31   | 30.80        | 30.32  |
|                    | QPSK       | 1                | 160          | 26.92                   | <b>28.06</b> | 27.10  | 27.15  | <b>27.92</b> | 27.17  | 30.05   | <b>31.00</b> | 30.15  |
|                    |            | 1                | 161          | 20.96                   | 21.86        | 21.07  | 21.38  | 22.05        | 21.05  | 24.19   | 24.97        | 24.07  |
|                    |            | 81               | 40           | 22.64                   | 25.70        | 25.26  | 22.77  | 25.92        | 24.94  | 25.72   | 28.82        | 28.11  |
|                    |            | 162              | 0            | 22.65                   | 26.11        | 25.37  | 22.92  | 25.87        | 24.92  | 25.80   | 29.00        | 28.16  |
|                    | 16QAM      | 1                | 0            | 21.22                   | 21.96        | 20.95  | 20.96  | 21.85        | 21.33  | 24.10   | 24.92        | 24.15  |
|                    |            | 1                | 1            | 21.32                   | <b>26.98</b> | 26.34  | 21.58  | 26.70        | 25.92  | 24.46   | <b>29.85</b> | 29.15  |
|                    |            | 1                | 160          | 26.02                   | 26.64        | 26.16  | 26.25  | <b>26.80</b> | 26.41  | 29.15   | 29.73        | 29.30  |
|                    |            | 1                | 161          | 21.05                   | 22.04        | 21.22  | 20.99  | 21.87        | 21.03  | 24.03   | 24.97        | 24.14  |
|                    |            | 81               | 40           | 22.43                   | 24.98        | 24.04  | 22.53  | 24.74        | 24.14  | 25.49   | 27.87        | 27.10  |
|                    |            | 162              | 0            | 22.15                   | 24.93        | 24.37  | 22.39  | 24.82        | 24.25  | 25.28   | 27.89        | 27.32  |
|                    |            | 1                | 0            | 21.00                   | 21.83        | 21.28  | 20.85  | 21.77        | 21.15  | 23.94   | 24.81        | 24.23  |
|                    |            | 1                | 1            | 20.90                   | 24.81        | 24.24  | 20.94  | <b>24.90</b> | 24.14  | 23.93   | 27.87        | 27.20  |
|                    | 64QAM      | 1                | 160          | 23.97                   | <b>25.10</b> | 24.02  | 23.96  | <b>24.90</b> | 24.16  | 26.98   | <b>28.01</b> | 27.10  |
|                    |            | 1                | 161          | 21.18                   | 22.03        | 21.92  | 21.17  | 21.78        | 22.26  | 24.19   | 24.92        | 25.10  |
|                    |            | 81               | 40           | 22.29                   | 24.34        | 23.50  | 22.14  | 24.36        | 23.66  | 25.23   | 27.36        | 26.59  |
|                    |            | 162              | 0            | 22.15                   | 24.61        | 23.79  | 22.57  | 24.23        | 23.51  | 25.38   | 27.43        | 26.66  |
|                    | 256QAM     | 1                | 0            | 19.53                   | <b>22.01</b> | 21.29  | 19.19  | <b>22.09</b> | 21.39  | 22.37   | <b>25.06</b> | 24.35  |
|                    |            | 1                | 1            | 19.32                   | 21.72        | 21.28  | 19.14  | 21.97        | 21.13  | 22.24   | 24.86        | 24.22  |
|                    |            | 1                | 160          | 21.21                   | 21.73        | 21.11  | 21.29  | 22.07        | 20.96  | 24.26   | 24.91        | 24.05  |
|                    |            | 1                | 161          | 21.37                   | 21.77        | 21.25  | 20.92  | 21.72        | 21.27  | 24.16   | 24.76        | 24.27  |
|                    |            | 81               | 40           | 21.08                   | 21.82        | 21.17  | 20.68  | 21.65        | 21.13  | 23.89   | 24.75        | 24.16  |
|                    |            | 162              | 0            | 20.63                   | 21.78        | 21.07  | 20.76  | 21.63        | 21.02  | 23.71   | 24.72        | 24.06  |

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

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |              |        |        |              |        |         |              |        |
|--------------------|------------|------------------|--------------|-------------------------|--------------|--------|--------|--------------|--------|---------|--------------|--------|
|                    |            |                  |              | ANT 1                   |              |        | ANT 2  |              |        | ANT 1+2 |              |        |
|                    |            |                  |              | 506200                  | 518600       | 531000 | 506200 | 518600       | 531000 | 506200  | 518600       | 531000 |
| 70.0               | BPSK       | 1                | 0            | 21.69                   | 22.47        | 21.85  | 21.92  | 22.62        | 21.65  | 24.82   | 25.56        | 24.76  |
|                    |            | 1                | 1            | 21.79                   | 27.82        | 27.16  | 22.01  | 27.98        | 27.25  | 24.91   | 30.91        | 30.22  |
|                    |            | 1                | 187          | 27.35                   | <b>27.88</b> | 27.35  | 27.42  | <b>28.20</b> | 27.36  | 30.40   | <b>31.05</b> | 30.37  |
|                    |            | 1                | 188          | 21.61                   | 22.25        | 21.98  | 21.81  | 22.43        | 21.64  | 24.72   | 25.35        | 24.82  |
|                    |            | 90               | 45           | 24.18                   | 26.32        | 25.61  | 23.84  | 26.23        | 25.60  | 27.02   | 29.29        | 28.62  |
|                    |            | 180              | 0            | 24.15                   | 26.27        | 25.91  | 23.95  | 26.55        | 25.80  | 27.06   | 29.42        | 28.87  |
|                    |            | 1                | 0            | 21.08                   | 22.04        | 21.17  | 21.27  | 22.18        | 21.31  | 24.19   | 25.12        | 24.25  |
|                    |            | 1                | 1            | 21.65                   | 27.98        | 27.11  | 21.31  | 27.74        | 27.04  | 24.49   | 30.87        | 30.09  |
|                    | QPSK       | 1                | 187          | 27.49                   | <b>28.03</b> | 27.18  | 27.24  | <b>28.05</b> | 27.41  | 30.38   | <b>31.05</b> | 30.31  |
|                    |            | 1                | 188          | 21.08                   | 21.95        | 21.46  | 21.41  | 22.10        | 21.24  | 24.26   | 25.04        | 24.36  |
|                    |            | 90               | 45           | 22.89                   | 26.06        | 25.17  | 22.96  | 25.80        | 25.43  | 25.94   | 28.94        | 28.31  |
|                    |            | 180              | 0            | 22.86                   | 25.95        | 25.44  | 22.75  | 25.92        | 25.43  | 25.82   | 28.95        | 28.45  |
|                    | 16QAM      | 1                | 0            | 21.27                   | 21.78        | 21.20  | 21.35  | 22.06        | 21.17  | 24.32   | 24.93        | 24.20  |
|                    |            | 1                | 1            | 21.63                   | <b>26.95</b> | 26.28  | 21.31  | <b>27.21</b> | 26.44  | 24.48   | <b>30.09</b> | 29.37  |
|                    |            | 1                | 187          | 26.33                   | 26.75        | 26.41  | 26.20  | 26.91        | 26.34  | 29.28   | 29.84        | 29.39  |
|                    |            | 1                | 188          | 21.34                   | 21.85        | 21.27  | 21.21  | 21.94        | 21.47  | 24.29   | 24.91        | 24.38  |
|                    |            | 90               | 45           | 22.51                   | 24.92        | 24.13  | 22.59  | 25.21        | 24.46  | 25.56   | 28.08        | 27.31  |
|                    |            | 180              | 0            | 22.27                   | 25.02        | 24.29  | 22.53  | 24.82        | 24.04  | 25.41   | 27.93        | 27.18  |
|                    |            | 1                | 0            | 21.21                   | 22.17        | 21.07  | 21.20  | 22.20        | 21.34  | 24.22   | 25.20        | 24.22  |
|                    |            | 1                | 1            | 21.20                   | <b>25.00</b> | 24.38  | 20.94  | 24.90        | 24.25  | 24.08   | 27.96        | 27.33  |
|                    | 64QAM      | 1                | 187          | 24.36                   | 24.72        | 24.02  | 24.30  | <b>25.20</b> | 24.50  | 27.34   | <b>27.98</b> | 27.28  |
|                    |            | 1                | 188          | 21.17                   | 21.93        | 22.29  | 21.36  | 22.07        | 22.46  | 24.28   | 25.01        | 25.39  |
|                    |            | 90               | 45           | 22.71                   | 24.70        | 23.74  | 22.68  | 24.50        | 23.71  | 25.71   | 27.61        | 26.74  |
|                    |            | 180              | 0            | 22.70                   | 24.63        | 23.80  | 22.24  | 24.26        | 23.65  | 25.49   | 27.46        | 26.74  |
|                    | 256QAM     | 1                | 0            | 19.28                   | <b>22.10</b> | 21.03  | 19.52  | 22.03        | 21.43  | 22.41   | <b>25.08</b> | 24.24  |
|                    |            | 1                | 1            | 19.54                   | 21.72        | 21.15  | 19.61  | <b>22.04</b> | 21.09  | 22.59   | 24.89        | 24.13  |
|                    |            | 1                | 187          | 21.18                   | 21.75        | 21.19  | 21.42  | 21.81        | 21.04  | 24.31   | 24.79        | 24.13  |
|                    |            | 1                | 188          | 21.44                   | 21.86        | 21.12  | 21.15  | 21.75        | 21.26  | 24.31   | 24.82        | 24.20  |
|                    |            | 90               | 45           | 21.17                   | 22.07        | 21.02  | 20.83  | 21.72        | 21.08  | 24.01   | 24.91        | 24.06  |
|                    |            | 180              | 0            | 20.77                   | 21.98        | 21.03  | 20.73  | 21.73        | 21.31  | 23.76   | 24.87        | 24.18  |



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

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |              |        |        |              |        |         |              |        |
|--------------------|------------|------------------|--------------|-------------------------|--------------|--------|--------|--------------|--------|---------|--------------|--------|
|                    |            |                  |              | ANT 1                   |              |        | ANT 2  |              |        | ANT 1+2 |              |        |
|                    |            |                  |              | 507200                  | 518600       | 530000 | 507200 | 518600       | 530000 | 507200  | 518600       | 530000 |
| 80.0               | BPSK       | 1                | 0            | 2536.0                  | 2593.0       | 2650.0 | 2536.0 | 2593.0       | 2650.0 | 2536.0  | 2593.0       | 2650.0 |
|                    |            | 1                | 1            | 21.91                   | 22.46        | 21.91  | 21.73  | 22.42        | 21.85  | 24.83   | 25.45        | 24.89  |
|                    |            | 1                | 1            | 21.78                   | 27.88        | 27.34  | 21.99  | 27.91        | 27.05  | 24.90   | 30.91        | 30.21  |
|                    |            | 1                | 215          | 27.08                   | <b>28.00</b> | 27.37  | 27.28  | <b>27.95</b> | 27.27  | 30.19   | <b>30.99</b> | 30.33  |
|                    |            | 1                | 216          | 21.79                   | 22.28        | 21.88  | 21.78  | 22.30        | 21.74  | 24.80   | 25.30        | 24.82  |
|                    |            | 108              | 54           | 24.20                   | 26.65        | 25.59  | 23.73  | 26.32        | 25.74  | 26.98   | 29.50        | 28.68  |
|                    | QPSK       | 216              | 0            | 24.16                   | 26.56        | 25.72  | 23.99  | 26.38        | 25.74  | 27.09   | 29.48        | 28.74  |
|                    |            | 1                | 0            | 21.43                   | 22.06        | 21.08  | 21.45  | 21.73        | 21.32  | 24.45   | 24.91        | 24.21  |
|                    |            | 1                | 1            | 21.71                   | <b>28.10</b> | 27.12  | 21.50  | <b>28.08</b> | 27.09  | 24.62   | <b>31.10</b> | 30.12  |
|                    |            | 1                | 215          | 27.50                   | 27.87        | 27.11  | 27.44  | 27.72        | 27.45  | 30.48   | 30.81        | 30.29  |
|                    |            | 1                | 216          | 21.38                   | 22.11        | 21.33  | 21.03  | 21.95        | 21.02  | 24.22   | 25.04        | 24.19  |
|                    |            | 108              | 54           | 23.09                   | 25.84        | 25.39  | 22.98  | 26.15        | 25.36  | 26.05   | 29.01        | 28.39  |
|                    | 16QAM      | 216              | 0            | 23.10                   | 25.92        | 25.25  | 22.77  | 26.15        | 25.50  | 25.95   | 29.05        | 28.39  |
|                    |            | 1                | 0            | 21.51                   | 21.81        | 21.21  | 21.13  | 22.20        | 21.22  | 24.33   | 25.02        | 24.23  |
|                    |            | 1                | 1            | 21.29                   | 26.75        | 26.10  | 21.37  | <b>26.92</b> | 26.04  | 24.34   | <b>29.85</b> | 29.08  |
|                    |            | 1                | 215          | 26.09                   | <b>26.80</b> | 26.29  | 26.07  | 26.77        | 26.16  | 29.09   | 29.80        | 29.24  |
|                    |            | 1                | 216          | 21.05                   | 21.71        | 21.17  | 21.29  | 22.19        | 21.28  | 24.18   | 24.97        | 24.24  |
|                    |            | 108              | 54           | 22.70                   | 25.10        | 24.25  | 22.32  | 25.10        | 24.26  | 25.52   | 28.11        | 27.27  |
|                    | 64QAM      | 216              | 0            | 22.66                   | 24.91        | 24.03  | 22.24  | 25.11        | 24.05  | 25.47   | 28.02        | 27.05  |
|                    |            | 1                | 0            | 20.83                   | 21.98        | 21.15  | 20.85  | 22.05        | 21.20  | 23.85   | 25.03        | 24.19  |
|                    |            | 1                | 1            | 21.14                   | 24.79        | 24.08  | 20.85  | 24.76        | 24.04  | 24.01   | 27.79        | 27.07  |
|                    |            | 1                | 215          | 24.25                   | <b>24.87</b> | 24.39  | 24.29  | <b>25.13</b> | 24.51  | 27.28   | <b>28.01</b> | 27.46  |
|                    |            | 1                | 216          | 21.28                   | 21.80        | 22.35  | 21.29  | 21.94        | 22.08  | 24.30   | 24.88        | 25.23  |
|                    |            | 108              | 54           | 22.40                   | 24.31        | 23.83  | 22.35  | 24.53        | 23.88  | 25.39   | 27.43        | 26.87  |
|                    | 256QAM     | 216              | 0            | 22.52                   | 24.58        | 23.88  | 22.41  | 24.40        | 23.96  | 25.48   | 27.50        | 26.93  |
|                    |            | 1                | 0            | 19.48                   | 21.86        | 21.43  | 19.54  | 21.76        | 21.40  | 22.52   | 24.82        | 24.43  |
|                    |            | 1                | 1            | 19.24                   | 22.15        | 21.07  | 19.51  | 22.02        | 21.37  | 22.39   | <b>25.10</b> | 24.23  |
|                    |            | 1                | 215          | 21.15                   | 21.82        | 21.03  | 21.27  | 22.05        | 21.36  | 24.22   | 24.95        | 24.21  |
|                    |            | 1                | 216          | 21.27                   | 21.94        | 21.26  | 21.31  | <b>22.10</b> | 21.29  | 24.30   | 25.03        | 24.29  |
|                    |            | 108              | 54           | 21.17                   | <b>22.21</b> | 21.47  | 20.92  | 21.77        | 21.44  | 24.06   | 25.01        | 24.47  |
|                    |            | 216              | 0            | 20.79                   | 21.83        | 21.50  | 21.16  | 21.92        | 21.36  | 23.99   | 24.89        | 24.44  |

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

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |              |        |        |              |        |         |              |        |
|--------------------|------------|------------------|--------------|-------------------------|--------------|--------|--------|--------------|--------|---------|--------------|--------|
|                    |            |                  |              | ANT 1                   |              |        | ANT 2  |              |        | ANT 1+2 |              |        |
|                    |            |                  |              | 508200                  | 518600       | 529000 | 508200 | 518600       | 529000 | 508200  | 518600       | 529000 |
| 90.0               | BPSK       | 1                | 0            | 2541.0                  | 2593.0       | 2645.0 | 2541.0 | 2593.0       | 2645.0 | 2541.0  | 2593.0       | 2645.0 |
|                    |            | 1                | 1            | 22.06                   | 22.77        | 21.87  | 21.92  | 22.72        | 22.10  | 24.98   | 25.63        | 24.83  |
|                    |            | 1                | 1            | 22.11                   | 22.19        | 22.00  | 22.44  | 22.15        | 22.04  | 24.91   | 31.06        | 30.03  |
|                    |            | 1                | 243          | 27.33                   | <b>28.17</b> | 27.41  | 27.33  | <b>28.18</b> | 27.60  | 30.16   | <b>31.13</b> | 30.45  |
|                    |            | 1                | 244          | 22.08                   | 22.53        | 21.93  | 22.03  | 22.56        | 21.82  | 24.94   | 25.49        | 24.77  |
|                    |            | 120              | 60           | 24.30                   | 26.93        | 26.37  | 24.31  | 26.69        | 26.16  | 26.93   | 29.41        | 28.78  |
|                    | QPSK       | 243              | 0            | 24.26                   | 26.47        | 25.92  | 24.38  | 26.67        | 26.25  | 26.76   | 29.57        | 28.68  |
|                    |            | 1                | 0            | 21.34                   | 22.19        | 21.62  | 21.29  | 22.07        | 21.75  | 24.47   | 25.07        | 24.08  |
|                    |            | 1                | 1            | 21.54                   | <b>28.44</b> | 27.47  | 21.57  | 27.97        | 27.55  | 24.28   | <b>31.11</b> | 30.49  |
|                    |            | 1                | 243          | 27.46                   | 28.32        | 27.29  | 27.31  | <b>28.06</b> | 27.72  | 30.17   | 30.94        | 30.41  |
|                    |            | 1                | 244          | 21.46                   | 22.04        | 21.69  | 21.72  | 22.24        | 21.39  | 24.47   | 25.09        | 24.46  |
|                    |            | 120              | 60           | 23.21                   | 26.37        | 25.70  | 23.26  | 26.10        | 25.71  | 25.83   | 29.10        | 28.13  |
|                    | 16QAM      | 243              | 0            | 23.02                   | 26.35        | 25.28  | 23.03  | 26.10        | 25.49  | 26.09   | 28.82        | 28.37  |
|                    |            | 1                | 0            | 21.69                   | 22.03        | 21.72  | 21.42  | 22.24        | 21.64  | 24.15   | 24.87        | 24.19  |
|                    |            | 1                | 1            | 21.95                   | <b>27.45</b> | 26.59  | 21.56  | <b>27.35</b> | 26.68  | 24.33   | <b>30.13</b> | 29.48  |
|                    |            | 1                | 243          | 26.73                   | 27.18        | 26.69  | 26.66  | 27.34        | 26.34  | 29.51   | 30.07        | 29.10  |
|                    |            | 1                | 244          | 21.66                   | 22.35        | 21.68  | 21.53  | 22.24        | 21.76  | 24.17   | 25.10        | 24.12  |
|                    |            | 120              | 60           | 22.90                   | 25.18        | 24.68  | 22.84  | 25.13        | 24.34  | 25.51   | 27.95        | 27.32  |
|                    | 64QAM      | 243              | 0            | 22.73                   | 25.03        | 24.67  | 22.85  | 25.03        | 24.69  | 25.48   | 27.98        | 27.25  |
|                    |            | 1                | 0            | 21.35                   | 22.45        | 21.67  | 21.35  | 22.39        | 21.42  | 24.05   | 25.11        | 24.48  |
|                    |            | 1                | 1            | 20.96                   | <b>25.23</b> | 24.76  | 21.18  | <b>25.34</b> | 24.52  | 23.72   | 27.98        | 27.23  |
|                    |            | 1                | 243          | 24.72                   | 25.15        | 24.62  | 24.27  | 25.12        | 24.65  | 27.07   | <b>28.18</b> | 27.42  |
|                    |            | 1                | 244          | 21.39                   | 22.00        | 22.38  | 21.41  | 22.35        | 22.76  | 24.15   | 24.78        | 25.27  |
|                    |            | 120              | 60           | 22.79                   | 24.94        | 23.85  | 22.60  | 24.90        | 24.25  | 25.50   | 27.22        | 26.81  |
|                    | 256QAM     | 243              | 0            | 22.76                   | 24.70        | 23.90  | 22.55  | 24.92        | 23.78  | 25.56   | 27.63        | 26.75  |
|                    |            | 1                | 0            | 19.58                   | 22.09        | 21.28  | 19.80  | 22.02        | 21.41  | 22.56   | 24.79        | 24.09  |
|                    |            | 1                | 1            | 19.56                   | 21.98        | 21.49  | 19.83  | 22.13        | 21.31  | 22.35   | 25.09        | 24.30  |
|                    |            | 1                | 243          | 21.67                   | 22.24        | 21.46  | 21.53  | 22.13        | 21.62  | 24.17   | 24.73        | 24.50  |
|                    |            | 1                | 244          | 21.72                   | 22.30        | 21.49  | 21.40  | <b>22.33</b> | 21.47  | 24.32   | <b>25.20</b> | 24.31  |
|                    |            | 120              | 60           | 21.28                   | <b>22.46</b> | 21.36  | 20.97  | 22.18        | 21.48  | 23.76   | 24.89        | 24.07  |
|                    |            | 243              | 0            | 21.34                   | 22.29        | 21.30  | 21.14  | 22.19        | 21.55  | 23.81   | 25.17        | 24.02  |



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

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |        |        |        |        |        |         |        |        |
|--------------------|------------|------------------|--------------|-------------------------|--------|--------|--------|--------|--------|---------|--------|--------|
|                    |            |                  |              | ANT 1                   |        |        | ANT 2  |        |        | ANT 1+2 |        |        |
|                    |            |                  |              | 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 |
| 100.0              | BPSK       | 1                | 0            | 22.00                   | 22.65  | 21.54  | 21.70  | 22.55  | 21.87  | 24.86   | 25.61  | 24.72  |
|                    |            | 1                | 1            | 21.83                   | 28.06  | 27.19  | 21.92  | 28.10  | 27.41  | 24.89   | 31.09  | 30.31  |
|                    |            | 1                | 271          | 27.38                   | 27.91  | 27.41  | 27.36  | 28.13  | 27.17  | 30.38   | 31.03  | 30.30  |
|                    |            | 1                | 272          | 21.62                   | 22.62  | 21.95  | 21.95  | 22.53  | 21.81  | 24.80   | 25.59  | 24.89  |
|                    |            | 135              | 67           | 24.00                   | 26.61  | 25.62  | 24.15  | 26.64  | 25.77  | 27.09   | 29.64  | 28.71  |
|                    |            | 270              | 0            | 23.78                   | 26.43  | 25.68  | 24.05  | 26.63  | 25.57  | 26.93   | 29.54  | 28.64  |
|                    | QPSK       | 1                | 0            | 21.15                   | 21.86  | 21.26  | 21.49  | 21.97  | 21.22  | 24.33   | 24.93  | 24.25  |
|                    |            | 1                | 1            | 21.45                   | 27.97  | 27.42  | 21.39  | 27.72  | 27.50  | 24.43   | 30.86  | 30.47  |
|                    |            | 1                | 271          | 27.23                   | 27.82  | 27.18  | 27.21  | 27.90  | 27.15  | 30.23   | 30.87  | 30.18  |
|                    |            | 1                | 272          | 21.06                   | 21.79  | 21.02  | 21.45  | 22.18  | 21.42  | 24.27   | 25.00  | 24.23  |
|                    |            | 135              | 67           | 22.98                   | 26.20  | 25.05  | 23.14  | 25.76  | 25.02  | 26.07   | 29.00  | 28.05  |
|                    |            | 270              | 0            | 23.20                   | 25.96  | 25.16  | 23.15  | 25.79  | 25.29  | 26.19   | 28.89  | 28.24  |
|                    | 16QAM      | 1                | 0            | 21.43                   | 22.14  | 21.33  | 21.11  | 22.03  | 21.48  | 24.28   | 25.10  | 24.42  |
|                    |            | 1                | 1            | 21.63                   | 26.72  | 26.21  | 21.53  | 26.93  | 26.39  | 24.59   | 29.84  | 29.31  |
|                    |            | 1                | 271          | 26.12                   | 27.03  | 26.21  | 26.18  | 27.18  | 26.36  | 29.16   | 30.12  | 29.30  |
|                    |            | 1                | 272          | 21.46                   | 21.76  | 21.20  | 21.45  | 22.11  | 21.38  | 24.47   | 24.95  | 24.30  |
|                    |            | 135              | 67           | 22.29                   | 24.76  | 24.33  | 22.43  | 25.05  | 24.50  | 25.37   | 27.92  | 27.43  |
|                    |            | 270              | 0            | 22.66                   | 24.83  | 24.17  | 22.30  | 24.87  | 24.24  | 25.49   | 27.86  | 27.22  |
|                    | 64QAM      | 1                | 0            | 20.88                   | 21.86  | 21.49  | 20.88  | 22.11  | 21.48  | 23.89   | 25.00  | 24.50  |
|                    |            | 1                | 1            | 20.99                   | 25.06  | 24.26  | 21.13  | 24.85  | 24.41  | 24.07   | 27.97  | 27.35  |
|                    |            | 1                | 271          | 24.27                   | 24.76  | 24.41  | 24.03  | 25.13  | 24.12  | 27.16   | 27.96  | 27.28  |
|                    |            | 1                | 272          | 21.36                   | 21.75  | 22.24  | 21.46  | 22.04  | 22.27  | 24.42   | 24.91  | 25.27  |
|                    |            | 135              | 67           | 22.41                   | 24.24  | 23.57  | 22.70  | 24.69  | 23.97  | 25.57   | 27.48  | 26.78  |
|                    |            | 270              | 0            | 22.27                   | 24.49  | 23.53  | 22.60  | 24.55  | 23.77  | 25.45   | 27.53  | 26.66  |
|                    | 256QAM     | 1                | 0            | 19.26                   | 22.01  | 21.20  | 19.31  | 21.74  | 21.33  | 22.30   | 24.89  | 24.28  |
|                    |            | 1                | 1            | 19.23                   | 22.08  | 21.07  | 19.52  | 21.80  | 21.41  | 22.39   | 24.95  | 24.25  |
|                    |            | 1                | 271          | 21.08                   | 21.87  | 21.25  | 21.45  | 22.13  | 21.02  | 24.28   | 25.01  | 24.15  |
|                    |            | 1                | 272          | 21.33                   | 22.04  | 21.30  | 21.39  | 22.11  | 21.38  | 24.37   | 25.09  | 24.35  |
|                    |            | 135              | 67           | 21.17                   | 22.12  | 21.34  | 21.11  | 21.94  | 21.49  | 24.15   | 25.04  | 24.43  |
|                    |            | 270              | 0            | 20.91                   | 22.11  | 21.32  | 20.81  | 22.08  | 21.19  | 23.87   | 25.11  | 24.27  |

## 8.1.2. 5G NR n77 (FCC Part 27 3450-3550MHz)

|                   |       |            |            |
|-------------------|-------|------------|------------|
| Test Engineer ID: | 28567 | Test Date: | 2024-01-23 |
|-------------------|-------|------------|------------|

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

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |        |        |        |        |        |         |        |        |
|--------------------|------------|------------------|--------------|-------------------------|--------|--------|--------|--------|--------|---------|--------|--------|
|                    |            |                  |              | ANT 7                   |        |        | ANT 8  |        |        | ANT 7+8 |        |        |
|                    |            |                  |              | 630333                  | 633332 | 636333 | 630333 | 633332 | 636333 | 630333  | 633332 | 636333 |
| 10.0               | BPSK       | 1                | 0            | 22.27                   | 22.63  | 22.60  | 22.23  | 22.64  | 22.31  | 25.26   | 25.65  | 25.47  |
|                    |            | 1                | 1            | 28.17                   | 27.89  | 27.86  | 27.85  | 28.13  | 28.11  | 31.02   | 31.02  | 31.00  |
|                    |            | 1                | 22           | 28.12                   | 28.03  | 28.06  | 27.94  | 27.84  | 27.82  | 31.04   | 30.95  | 30.95  |
|                    |            | 1                | 23           | 22.26                   | 22.35  | 22.34  | 22.22  | 22.41  | 22.51  | 25.25   | 25.39  | 25.44  |
|                    |            | 12               | 6            | 26.34                   | 26.43  | 26.32  | 26.39  | 26.54  | 26.49  | 29.38   | 29.50  | 29.42  |
|                    |            | 24               | 0            | 26.38                   | 26.69  | 26.30  | 26.42  | 26.23  | 26.37  | 29.41   | 29.48  | 29.35  |
|                    | QPSK       | 1                | 0            | 21.90                   | 21.96  | 21.80  | 22.18  | 21.81  | 21.85  | 25.05   | 24.90  | 24.84  |
|                    |            | 1                | 1            | 27.86                   | 28.20  | 28.00  | 27.97  | 28.02  | 27.98  | 30.93   | 31.12  | 31.00  |
|                    |            | 1                | 22           | 27.98                   | 28.28  | 28.29  | 27.75  | 27.98  | 27.78  | 30.88   | 31.14  | 31.05  |
|                    |            | 1                | 23           | 21.99                   | 21.80  | 22.04  | 22.21  | 21.99  | 21.77  | 25.11   | 24.91  | 24.92  |
|                    |            | 12               | 6            | 26.17                   | 25.81  | 26.03  | 25.82  | 25.98  | 26.02  | 29.01   | 28.91  | 29.04  |
|                    |            | 24               | 0            | 25.89                   | 25.98  | 25.91  | 25.93  | 25.89  | 25.75  | 28.92   | 28.95  | 28.84  |
|                    | 16QAM      | 1                | 0            | 21.79                   | 22.00  | 21.93  | 21.78  | 21.87  | 21.99  | 24.80   | 24.95  | 24.97  |
|                    |            | 1                | 1            | 28.09                   | 28.14  | 28.04  | 28.10  | 27.89  | 27.87  | 31.11   | 31.03  | 30.97  |
|                    |            | 1                | 22           | 28.12                   | 27.92  | 28.12  | 27.88  | 28.14  | 27.75  | 31.01   | 31.04  | 30.95  |
|                    |            | 1                | 23           | 22.18                   | 22.00  | 22.20  | 21.91  | 22.07  | 21.74  | 25.06   | 25.05  | 24.99  |
|                    |            | 12               | 6            | 25.08                   | 24.82  | 24.91  | 25.09  | 24.80  | 24.93  | 28.10   | 27.82  | 27.93  |
|                    |            | 24               | 0            | 24.94                   | 25.20  | 25.16  | 25.10  | 24.85  | 25.15  | 28.03   | 28.04  | 28.17  |
|                    | 64QAM      | 1                | 0            | 22.04                   | 22.07  | 22.10  | 21.90  | 22.04  | 21.83  | 24.98   | 25.07  | 24.98  |
|                    |            | 1                | 1            | 25.87                   | 25.87  | 25.84  | 26.18  | 25.72  | 26.15  | 29.04   | 28.81  | 29.01  |
|                    |            | 1                | 22           | 25.92                   | 26.03  | 25.73  | 25.98  | 25.88  | 25.87  | 28.96   | 28.97  | 28.81  |
|                    |            | 1                | 23           | 22.16                   | 21.96  | 21.85  | 21.92  | 21.78  | 22.20  | 25.05   | 24.88  | 25.04  |
|                    |            | 12               | 6            | 24.41                   | 24.50  | 24.67  | 24.50  | 24.61  | 24.51  | 27.47   | 27.57  | 27.60  |
|                    |            | 24               | 0            | 24.61                   | 24.48  | 24.55  | 24.65  | 24.42  | 24.49  | 27.64   | 27.46  | 27.53  |
|                    | 256QAM     | 1                | 0            | 21.84                   | 22.17  | 21.84  | 22.14  | 22.03  | 22.18  | 25.00   | 25.11  | 25.02  |
|                    |            | 1                | 1            | 22.94                   | 22.97  | 22.82  | 23.20  | 23.18  | 22.86  | 26.08   | 26.09  | 25.85  |
|                    |            | 1                | 22           | 22.72                   | 23.16  | 23.14  | 23.15  | 22.87  | 22.83  | 25.95   | 26.03  | 26.00  |
|                    |            | 1                | 23           | 21.86                   | 21.89  | 21.80  | 21.81  | 22.09  | 22.11  | 24.85   | 25.00  | 24.97  |
|                    |            | 12               | 6            | 22.04                   | 22.02  | 21.79  | 22.00  | 22.07  | 21.77  | 25.03   | 25.06  | 24.79  |
|                    |            | 24               | 0            | 22.13                   | 22.20  | 21.75  | 21.72  | 22.08  | 22.03  | 24.94   | 25.15  | 24.90  |

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

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |        |        |        |        |        |         |        |        |
|--------------------|------------|------------------|--------------|-------------------------|--------|--------|--------|--------|--------|---------|--------|--------|
|                    |            |                  |              | ANT 7                   |        |        | ANT 8  |        |        | ANT 7+8 |        |        |
|                    |            |                  |              | 630500                  | 633332 | 636166 | 630500 | 633332 | 636166 | 630500  | 633332 | 636166 |
| 15.0               | BPSK       | 1                | 0            | 22.60                   | 22.64  | 22.42  | 22.67  | 22.43  | 22.48  | 25.65   | 25.55  | 25.46  |
|                    |            | 1                | 1            | 28.11                   | 28.17  | 28.13  | 28.20  | 27.78  | 28.10  | 31.17   | 30.99  | 31.13  |
|                    |            | 1                | 36           | 28.18                   | 28.18  | 27.81  | 27.84  | 28.01  | 28.00  | 31.02   | 31.11  | 30.92  |
|                    |            | 1                | 37           | 22.25                   | 22.31  | 22.68  | 22.23  | 22.28  | 22.33  | 25.25   | 25.31  | 25.52  |
|                    |            | 18               | 9            | 26.44                   | 26.42  | 26.35  | 26.59  | 26.27  | 26.32  | 29.53   | 29.36  | 29.35  |
|                    |            | 36               | 0            | 26.51                   | 26.52  | 26.34  | 26.36  | 26.40  | 26.29  | 29.45   | 29.47  | 29.33  |
|                    | QPSK       | 1                | 0            | 21.75                   | 21.89  | 21.97  | 21.89  | 21.74  | 22.06  | 24.83   | 24.83  | 25.03  |
|                    |            | 1                | 1            | 28.02                   | 27.90  | 28.05  | 27.85  | 28.08  | 27.76  | 30.95   | 31.00  | 30.92  |
|                    |            | 1                | 36           | 27.97                   | 27.71  | 28.12  | 28.09  | 28.09  | 28.10  | 31.04   | 30.91  | 31.12  |
|                    |            | 1                | 37           | 21.92                   | 22.08  | 21.99  | 21.78  | 21.79  | 21.80  | 24.86   | 24.95  | 24.91  |
|                    |            | 18               | 9            | 26.02                   | 25.80  | 25.78  | 25.91  | 26.16  | 26.05  | 28.98   | 28.99  | 28.93  |
|                    |            | 36               | 0            | 25.85                   | 25.80  | 26.02  | 26.18  | 25.77  | 25.83  | 29.03   | 28.80  | 28.94  |
|                    | 16QAM      | 1                | 0            | 22.11                   | 22.09  | 21.86  | 22.00  | 22.11  | 21.82  | 25.07   | 25.11  | 24.85  |
|                    |            | 1                | 1            | 28.05                   | 28.07  | 27.85  | 28.19  | 28.07  | 27.90  | 31.13   | 31.08  | 30.89  |
|                    |            | 1                | 36           | 27.88                   | 28.09  | 27.95  | 27.87  | 27.89  | 28.03  | 30.89   | 31.00  | 31.00  |
|                    |            | 1                | 37           | 21.84                   | 22.07  | 22.04  | 21.76  | 21.93  | 22.16  | 24.81   | 25.01  | 25.11  |
|                    |            | 18               | 9            | 24.97                   | 25.05  | 24.99  | 25.01  | 25.10  | 24.96  | 28.00   | 28.09  | 27.99  |
|                    |            | 36               | 0            | 24.87                   | 24.95  | 25.01  | 25.09  | 24.97  | 24.79  | 27.99   | 27.97  | 27.91  |
|                    | 64QAM      | 1                | 0            | 22.00                   | 22.17  | 22.09  | 22.14  | 21.85  | 22.15  | 25.08   | 25.02  | 25.13  |
|                    |            | 1                | 1            | 25.91                   | 26.04  | 25.94  | 26.19  | 26.05  | 25.92  | 29.06   | 29.06  | 28.94  |
|                    |            | 1                | 36           | 25.84                   | 25.87  | 25.98  | 25.81  | 26.21  | 25.95  | 28.84   | 29.05  | 28.98  |
|                    |            | 1                | 37           | 21.86                   | 22.06  | 22.21  | 21.72  | 21.95  | 21.95  | 24.80   | 25.02  | 25.09  |
|                    |            | 18               | 9            | 24.47                   | 24.37  | 24.56  | 24.68  | 24.62  | 24.31  | 27.59   | 27.51  | 27.45  |
|                    |            | 36               | 0            | 24.31                   | 24.25  | 24.48  | 24.59  | 24.23  | 24.39  | 27.46   | 27.25  | 27.45  |
|                    | 256QAM     | 1                | 0            | 22.02                   | 21.85  | 22.09  | 21.74  | 21.93  | 22.05  | 24.89   | 24.90  | 25.08  |
|                    |            | 1                | 1            | 22.86                   | 22.85  | 23.13  | 22.89  | 22.79  | 22.95  | 25.89   | 25.83  | 26.05  |
|                    |            | 1                | 36           | 23.05                   | 23.20  | 22.79  | 22.85  | 22.99  | 22.86  | 25.96   | 26.11  | 25.84  |
|                    |            | 1                | 37           | 21.72                   | 21.93  | 22.08  | 21.98  | 22.10  | 22.08  | 24.86   | 25.03  | 25.09  |
|                    |            | 18               | 9            | 21.77                   | 21.81  | 21.92  | 22.09  | 21.87  | 22.13  | 24.94   | 24.85  | 25.04  |
|                    |            | 36               | 0            | 22.10                   | 21.94  | 21.85  | 22.08  | 21.97  | 22.09  | 25.10   | 24.97  | 24.98  |

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

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) |        |        |        |        |        |         |        |        |
|-----------------|------------|---------------|-----------|-------------------------|--------|--------|--------|--------|--------|---------|--------|--------|
|                 |            |               |           | ANT 7                   |        |        | ANT 8  |        |        | ANT 7+8 |        |        |
|                 |            |               |           | 630666                  | 633332 | 635998 | 630666 | 633332 | 635998 | 630666  | 633332 | 635998 |
| 20.0            | BPSK       | 1             | 0         | 22.28                   | 22.35  | 22.63  | 22.66  | 22.53  | 22.67  | 25.48   | 25.45  | 25.66  |
|                 |            | 1             | 1         | 28.03                   | 28.42  | 28.06  | 28.12  | 27.75  | 28.15  | 31.09   | 31.11  | 31.12  |
|                 |            | 1             | 49        | 27.77                   | 27.88  | 28.13  | 28.20  | 27.98  | 27.94  | 31.00   | 30.94  | 31.05  |
|                 |            | 1             | 50        | 22.28                   | 22.26  | 22.46  | 22.26  | 22.66  | 22.63  | 25.28   | 25.47  | 25.56  |
|                 |            | 25            | 12        | 26.53                   | 26.60  | 26.43  | 26.39  | 26.37  | 26.31  | 29.47   | 29.50  | 29.38  |
|                 |            | 50            | 0         | 26.61                   | 26.47  | 26.69  | 26.52  | 26.45  | 26.25  | 29.58   | 29.47  | 29.49  |
|                 | QPSK       | 1             | 0         | 22.00                   | 21.79  | 21.88  | 21.77  | 21.81  | 21.93  | 24.90   | 24.81  | 24.92  |
|                 |            | 1             | 1         | 27.93                   | 28.06  | 28.22  | 27.94  | 27.85  | 27.78  | 30.95   | 30.97  | 31.02  |
|                 |            | 1             | 49        | 27.93                   | 28.17  | 28.32  | 28.06  | 28.14  | 27.92  | 31.01   | 31.17  | 31.13  |
|                 |            | 1             | 50        | 21.94                   | 21.99  | 22.21  | 21.74  | 22.16  | 22.12  | 24.85   | 25.09  | 25.18  |
|                 |            | 25            | 12        | 25.77                   | 26.11  | 26.08  | 26.18  | 25.73  | 25.91  | 28.99   | 28.93  | 29.01  |
|                 |            | 50            | 0         | 25.81                   | 25.91  | 26.17  | 26.13  | 26.09  | 25.92  | 28.98   | 29.01  | 29.06  |
|                 | 16QAM      | 1             | 0         | 22.18                   | 21.91  | 21.83  | 21.71  | 21.79  | 22.00  | 24.96   | 24.86  | 24.93  |
|                 |            | 1             | 1         | 27.82                   | 28.09  | 27.72  | 27.73  | 27.99  | 28.02  | 30.79   | 31.05  | 30.88  |
|                 |            | 1             | 49        | 28.02                   | 28.11  | 27.73  | 27.96  | 27.75  | 27.95  | 31.00   | 30.94  | 30.85  |
|                 |            | 1             | 50        | 22.14                   | 21.85  | 21.85  | 21.90  | 22.05  | 21.97  | 25.03   | 24.96  | 24.92  |
|                 |            | 25            | 12        | 25.20                   | 25.14  | 24.73  | 25.05  | 24.79  | 25.09  | 28.14   | 27.98  | 27.92  |
|                 |            | 50            | 0         | 24.88                   | 25.24  | 24.84  | 25.11  | 24.97  | 24.79  | 28.01   | 28.12  | 27.83  |
|                 | 64QAM      | 1             | 0         | 22.14                   | 22.06  | 21.84  | 22.18  | 21.91  | 21.87  | 25.17   | 25.00  | 24.87  |
|                 |            | 1             | 1         | 25.80                   | 26.18  | 25.92  | 26.07  | 25.82  | 25.82  | 28.95   | 29.01  | 28.88  |
|                 |            | 1             | 49        | 25.77                   | 26.10  | 25.87  | 26.00  | 25.79  | 25.98  | 28.90   | 28.96  | 28.94  |
|                 |            | 1             | 50        | 22.02                   | 22.10  | 21.87  | 21.84  | 21.96  | 21.93  | 24.94   | 25.04  | 24.91  |
|                 |            | 25            | 12        | 24.41                   | 24.62  | 24.24  | 24.27  | 24.67  | 24.63  | 27.35   | 27.66  | 27.45  |
|                 |            | 50            | 0         | 24.33                   | 24.65  | 24.41  | 24.29  | 24.31  | 24.61  | 27.32   | 27.49  | 27.52  |
|                 | 256QAM     | 1             | 0         | 22.16                   | 22.06  | 21.96  | 22.05  | 21.94  | 21.87  | 25.12   | 25.01  | 24.93  |
|                 |            | 1             | 1         | 23.08                   | 22.73  | 22.82  | 22.74  | 22.95  | 23.04  | 25.92   | 25.85  | 25.94  |
|                 |            | 1             | 49        | 23.09                   | 22.99  | 22.72  | 22.97  | 23.18  | 23.14  | 26.04   | 26.10  | 25.95  |
|                 |            | 1             | 50        | 22.12                   | 21.89  | 22.17  | 22.02  | 22.14  | 21.84  | 25.08   | 25.03  | 25.02  |
|                 |            | 25            | 12        | 21.99                   | 21.83  | 21.85  | 21.99  | 22.14  | 22.06  | 25.00   | 25.00  | 24.97  |
|                 |            | 50            | 0         | 22.04                   | 22.02  | 21.74  | 21.94  | 21.89  | 21.99  | 25.00   | 24.97  | 24.88  |

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

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) |        |        |        |        |        |         |        |        |
|-----------------|------------|---------------|-----------|-------------------------|--------|--------|--------|--------|--------|---------|--------|--------|
|                 |            |               |           | ANT 7                   |        |        | ANT 8  |        |        | Ant 7+8 |        |        |
|                 |            |               |           | 631000                  | 633332 | 635666 | 631000 | 633332 | 635666 | 631000  | 633332 | 635666 |
| 30.0            | BPSK       | 1             | 0         | 22.41                   | 22.34  | 22.69  | 22.61  | 22.31  | 22.62  | 25.52   | 25.34  | 25.67  |
|                 |            | 1             | 1         | 28.06                   | 28.16  | 28.08  | 27.92  | 27.94  | 27.94  | 31.00   | 31.06  | 31.02  |
|                 |            | 1             | 76        | 27.92                   | 27.76  | 27.85  | 27.85  | 27.99  | 27.90  | 30.90   | 30.89  | 30.89  |
|                 |            | 1             | 77        | 22.46                   | 22.26  | 22.38  | 22.61  | 22.64  | 22.57  | 25.55   | 25.46  | 25.49  |
|                 |            | 36            | 18        | 26.31                   | 26.51  | 26.48  | 26.62  | 26.35  | 26.47  | 29.48   | 29.44  | 29.49  |
|                 |            | 75            | 0         | 26.43                   | 26.44  | 26.60  | 26.34  | 26.32  | 26.40  | 29.40   | 29.39  | 29.51  |
|                 | QPSK       | 1             | 0         | 22.16                   | 22.21  | 22.20  | 22.17  | 22.17  | 21.97  | 25.18   | 25.20  | 25.10  |
|                 |            | 1             | 1         | 28.07                   | 27.94  | 28.18  | 28.14  | 27.85  | 28.10  | 31.12   | 30.91  | 31.15  |
|                 |            | 1             | 76        | 28.28                   | 28.12  | 28.07  | 27.78  | 27.98  | 28.03  | 31.05   | 31.06  | 31.06  |
|                 |            | 1             | 77        | 21.78                   | 22.07  | 22.06  | 21.77  | 22.01  | 22.19  | 24.79   | 25.05  | 25.14  |
|                 |            | 36            | 18        | 26.01                   | 25.98  | 25.92  | 26.21  | 25.87  | 25.74  | 29.12   | 28.94  | 28.84  |
|                 |            | 75            | 0         | 26.01                   | 26.03  | 25.90  | 26.09  | 25.94  | 26.03  | 29.06   | 29.00  | 28.98  |
|                 | 16QAM      | 1             | 0         | 22.08                   | 22.11  | 22.08  | 22.01  | 22.08  | 21.78  | 25.06   | 25.11  | 24.94  |
|                 |            | 1             | 1         | 27.85                   | 27.78  | 27.80  | 28.08  | 27.82  | 27.78  | 30.98   | 30.81  | 30.80  |
|                 |            | 1             | 76        | 28.09                   | 27.79  | 27.77  | 27.85  | 28.04  | 27.73  | 30.98   | 30.93  | 30.76  |
|                 |            | 1             | 77        | 22.14                   | 21.78  | 21.84  | 21.88  | 22.10  | 22.16  | 25.02   | 24.95  | 25.01  |
|                 |            | 36            | 18        | 24.74                   | 24.79  | 25.11  | 25.05  | 25.10  | 24.84  | 27.91   | 27.96  | 27.99  |
|                 |            | 75            | 0         | 24.91                   | 24.94  | 25.12  | 24.99  | 25.06  | 25.01  | 27.96   | 28.01  | 28.08  |
|                 | 64QAM      | 1             | 0         | 21.77                   | 21.80  | 22.06  | 22.05  | 21.85  | 22.16  | 24.92   | 24.84  | 25.12  |
|                 |            | 1             | 1         | 26.09                   | 26.20  | 25.74  | 25.94  | 25.73  | 25.76  | 29.03   | 28.98  | 28.76  |
|                 |            | 1             | 76        | 25.94                   | 26.12  | 25.74  | 25.89  | 26.17  | 26.03  | 28.93   | 29.16  | 28.90  |
|                 |            | 1             | 77        | 21.87                   | 21.96  | 21.86  | 22.10  | 21.89  | 22.11  | 25.00   | 24.94  | 25.00  |
|                 |            | 36            | 18        | 24.26                   | 24.66  | 24.40  | 24.27  | 24.49  | 24.30  | 27.28   | 27.59  | 27.36  |
|                 |            | 75            | 0         | 24.42                   | 24.50  | 24.53  | 24.38  | 24.37  | 24.25  | 27.41   | 27.45  | 27.40  |
|                 | 256QAM     | 1             | 0         | 21.77                   | 22.04  | 22.08  | 21.90  | 22.16  | 21.99  | 24.85   | 25.11  | 25.05  |
|                 |            | 1             | 1         | 23.13                   | 22.73  | 22.87  | 22.91  | 22.74  | 23.16  | 26.03   | 25.75  | 26.03  |
|                 |            | 1             | 76        | 22.92                   | 22.89  | 22.95  | 23.09  | 23.19  | 22.79  | 26.02   | 26.05  | 25.88  |
|                 |            | 1             | 77        | 22.12                   | 21.88  | 21.80  | 22.02  | 22.04  | 21.91  | 25.08   | 24.97  | 24.87  |
|                 |            | 36            | 18        | 22.20                   | 21.77  | 21.95  | 22.20  | 22.03  | 22.14  | 25.21   | 24.91  | 25.06  |
|                 |            | 75            | 0         | 21.99                   | 21.97  | 22.13  | 22.19  | 22.12  | 22.06  | 25.10   | 25.06  | 25.11  |

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

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |        |        |        |        |        |         |        |        |
|--------------------|------------|------------------|--------------|-------------------------|--------|--------|--------|--------|--------|---------|--------|--------|
|                    |            |                  |              | ANT 7                   |        |        | ANT 8  |        |        | Ant 7+8 |        |        |
|                    |            |                  |              | 631332                  | 633332 | 635332 | 631332 | 633332 | 635332 | 631332  | 633332 | 635332 |
| 40.0               | BPSK       | 1                | 0            | 3470.0                  | 3500.0 | 3530.0 | 3470.0 | 3500.0 | 3530.0 | 3470.0  | 3500.0 | 3530.0 |
|                    |            | 1                | 1            | 22.61                   | 22.23  | 22.62  | 22.46  | 22.60  | 22.32  | 25.55   | 25.43  | 25.48  |
|                    |            | 1                | 1            | 28.03                   | 28.09  | 28.17  | 28.06  | 28.09  | 27.78  | 31.06   | 31.10  | 30.99  |
|                    |            | 1                | 104          | 27.93                   | 28.02  | 27.85  | 27.88  | 27.83  | 28.11  | 30.92   | 30.94  | 30.99  |
|                    |            | 1                | 105          | 22.64                   | 22.67  | 22.56  | 22.64  | 22.56  | 22.46  | 25.65   | 25.63  | 25.52  |
|                    |            | 50               | 25           | 26.57                   | 26.29  | 26.67  | 26.59  | 26.44  | 26.32  | 29.59   | 29.38  | 29.51  |
|                    | QPSK       | 100              | 0            | 26.32                   | 26.32  | 26.55  | 26.38  | 26.66  | 26.44  | 29.36   | 29.50  | 29.51  |
|                    |            | 1                | 0            | 21.81                   | 21.82  | 22.13  | 21.79  | 21.75  | 22.11  | 24.81   | 24.80  | 25.13  |
|                    |            | 1                | 1            | 28.28                   | 28.14  | 28.05  | 27.73  | 27.88  | 28.07  | 31.02   | 31.02  | 31.07  |
|                    |            | 1                | 104          | 28.36                   | 27.89  | 27.92  | 27.74  | 28.15  | 28.09  | 31.07   | 31.03  | 31.02  |
|                    |            | 1                | 105          | 21.85                   | 22.19  | 21.80  | 21.78  | 22.04  | 21.84  | 24.83   | 25.13  | 24.83  |
|                    |            | 50               | 25           | 26.18                   | 26.12  | 25.74  | 25.95  | 26.20  | 25.75  | 29.08   | 29.17  | 28.76  |
|                    | 16QAM      | 100              | 0            | 26.13                   | 25.72  | 25.87  | 25.91  | 25.90  | 25.75  | 29.03   | 28.82  | 28.82  |
|                    |            | 1                | 0            | 22.14                   | 22.20  | 21.75  | 22.17  | 22.16  | 21.78  | 25.17   | 25.19  | 24.78  |
|                    |            | 1                | 1            | 28.03                   | 27.79  | 28.19  | 27.77  | 28.14  | 28.03  | 30.91   | 30.98  | 31.12  |
|                    |            | 1                | 104          | 28.18                   | 27.73  | 28.10  | 27.78  | 28.05  | 27.74  | 30.99   | 30.90  | 30.93  |
|                    |            | 1                | 105          | 21.81                   | 22.01  | 22.13  | 21.79  | 22.02  | 22.08  | 24.81   | 25.03  | 25.12  |
|                    |            | 50               | 25           | 24.81                   | 24.77  | 25.19  | 24.97  | 24.86  | 24.82  | 27.90   | 27.83  | 28.02  |
|                    | 64QAM      | 100              | 0            | 25.16                   | 24.92  | 25.07  | 25.12  | 24.83  | 24.98  | 28.15   | 27.89  | 28.04  |
|                    |            | 1                | 0            | 22.05                   | 22.06  | 21.72  | 21.92  | 21.75  | 22.14  | 25.00   | 24.92  | 24.95  |
|                    |            | 1                | 1            | 26.04                   | 26.14  | 25.90  | 26.19  | 25.96  | 26.11  | 29.13   | 29.06  | 29.02  |
|                    |            | 1                | 104          | 25.96                   | 26.01  | 26.07  | 25.78  | 25.94  | 26.10  | 28.88   | 28.99  | 29.10  |
|                    |            | 1                | 105          | 22.18                   | 21.90  | 22.06  | 21.98  | 21.99  | 21.85  | 25.09   | 24.96  | 24.97  |
|                    |            | 50               | 25           | 24.44                   | 24.42  | 24.39  | 24.58  | 24.23  | 24.46  | 27.52   | 27.34  | 27.44  |
|                    | 256QAM     | 100              | 0            | 24.48                   | 24.26  | 24.51  | 24.41  | 24.58  | 24.52  | 27.46   | 27.43  | 27.53  |
|                    |            | 1                | 0            | 22.07                   | 22.03  | 22.20  | 21.88  | 21.85  | 21.97  | 24.99   | 24.95  | 25.10  |
|                    |            | 1                | 1            | 23.04                   | 22.92  | 23.07  | 22.79  | 23.02  | 23.02  | 25.93   | 25.98  | 26.06  |
|                    |            | 1                | 104          | 23.20                   | 22.81  | 22.71  | 23.09  | 23.15  | 22.75  | 26.16   | 25.99  | 25.74  |
|                    |            | 1                | 105          | 21.94                   | 21.92  | 21.86  | 21.94  | 21.99  | 22.18  | 24.95   | 24.97  | 25.03  |
|                    |            | 50               | 25           | 22.02                   | 21.92  | 22.13  | 21.85  | 21.99  | 22.18  | 24.95   | 24.97  | 25.17  |
|                    |            | 100              | 0            | 22.12                   | 21.73  | 22.01  | 21.99  | 21.93  | 21.85  | 25.07   | 24.84  | 24.94  |

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

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |        |        |        |        |        |         |        |        |
|--------------------|------------|------------------|--------------|-------------------------|--------|--------|--------|--------|--------|---------|--------|--------|
|                    |            |                  |              | ANT 7                   |        |        | ANT 8  |        |        | Ant 7+8 |        |        |
|                    |            |                  |              | 631666                  | 633332 | 634998 | 631666 | 633332 | 634998 | 631666  | 633332 | 634998 |
| 50.0               | BPSK       | 1                | 0            | 3475.0                  | 3500.0 | 3525.0 | 3475.0 | 3500.0 | 3525.0 | 3475.0  | 3500.0 | 3525.0 |
|                    |            | 1                | 1            | 22.54                   | 22.54  | 22.63  | 22.23  | 22.25  | 22.29  | 25.40   | 25.41  | 25.47  |
|                    |            | 1                | 131          | 28.03                   | 28.16  | 28.15  | 28.10  | 27.83  | 27.73  | 31.08   | 31.01  | 30.96  |
|                    |            | 1                | 132          | 28.05                   | 28.12  | 28.02  | 27.93  | 27.74  | 27.73  | 31.00   | 30.94  | 30.89  |
|                    |            | 1                | 132          | 22.23                   | 22.24  | 22.33  | 22.49  | 22.43  | 22.22  | 25.37   | 25.35  | 25.29  |
|                    |            | 64               | 32           | 26.31                   | 26.68  | 26.44  | 26.27  | 26.59  | 26.51  | 29.30   | 29.65  | 29.49  |
|                    | QPSK       | 128              | 0            | 26.44                   | 26.54  | 26.42  | 26.27  | 26.45  | 26.22  | 29.37   | 29.51  | 29.33  |
|                    |            | 1                | 0            | 22.01                   | 22.04  | 22.19  | 21.90  | 21.72  | 22.18  | 24.97   | 24.89  | 25.20  |
|                    |            | 1                | 1            | 28.14                   | 27.94  | 28.40  | 27.72  | 27.83  | 27.83  | 30.95   | 30.90  | 31.13  |
|                    |            | 1                | 131          | 28.16                   | 28.00  | 28.29  | 28.11  | 28.12  | 28.04  | 31.15   | 31.07  | 31.18  |
|                    |            | 1                | 132          | 22.18                   | 22.10  | 22.04  | 22.02  | 21.88  | 21.84  | 25.11   | 25.00  | 24.95  |
|                    |            | 64               | 32           | 25.93                   | 25.90  | 26.06  | 26.17  | 25.86  | 26.09  | 29.06   | 28.89  | 29.09  |
|                    | 16QAM      | 128              | 0            | 25.86                   | 26.09  | 25.93  | 25.80  | 26.10  | 25.82  | 28.84   | 29.11  | 28.89  |
|                    |            | 1                | 0            | 22.07                   | 22.12  | 21.74  | 21.87  | 21.84  | 21.80  | 24.98   | 24.99  | 24.78  |
|                    |            | 1                | 1            | 28.06                   | 28.04  | 27.85  | 28.05  | 28.18  | 28.05  | 31.07   | 31.12  | 30.96  |
|                    |            | 1                | 131          | 28.01                   | 27.98  | 28.14  | 28.07  | 28.06  | 27.92  | 31.05   | 31.03  | 31.04  |
|                    |            | 1                | 132          | 22.03                   | 22.12  | 22.14  | 21.74  | 21.86  | 21.83  | 24.90   | 25.00  | 25.00  |
|                    |            | 64               | 32           | 24.91                   | 24.90  | 24.82  | 24.98  | 25.07  | 24.78  | 27.96   | 28.00  | 27.81  |
|                    | 64QAM      | 128              | 0            | 25.13                   | 24.92  | 24.76  | 25.15  | 24.97  | 25.17  | 28.15   | 27.96  | 27.98  |
|                    |            | 1                | 0            | 22.16                   | 21.73  | 21.79  | 22.01  | 21.76  | 22.09  | 25.10   | 24.76  | 24.95  |
|                    |            | 1                | 1            | 26.12                   | 25.76  | 25.92  | 26.09  | 25.79  | 26.12  | 29.12   | 28.79  | 29.03  |
|                    |            | 1                | 131          | 26.15                   | 26.06  | 25.97  | 25.96  | 26.01  | 25.96  | 29.07   | 29.05  | 28.98  |
|                    |            | 1                | 132          | 21.79                   | 21.89  | 21.81  | 22.04  | 22.20  | 22.12  | 24.93   | 25.06  | 24.98  |
|                    |            | 64               | 32           | 24.64                   | 24.36  | 24.65  | 24.29  | 24.59  | 24.23  | 27.48   | 27.49  | 27.46  |
|                    | 256QAM     | 128              | 0            | 24.36                   | 24.25  | 24.57  | 24.21  | 24.24  | 24.71  | 27.30   | 27.26  | 27.65  |
|                    |            | 1                | 0            | 21.92                   | 22.08  | 21.75  | 21.89  | 21.73  | 22.07  | 24.92   | 24.92  | 24.92  |
|                    |            | 1                | 1            | 23.11                   | 23.13  | 23.20  | 22.75  | 22.86  | 22.85  | 25.94   | 26.01  | 26.04  |
|                    |            | 1                | 131          | 23.11                   | 23.14  | 22.80  | 22.74  | 23.01  | 23.06  | 25.94   | 26.09  | 25.94  |
|                    |            | 1                | 132          | 22.21                   | 22.12  | 21.78  | 21.95  | 22.11  | 22.04  | 25.09   | 25.13  | 24.92  |
|                    |            | 64               | 32           | 21.84                   | 22.00  | 21.74  | 22.11  | 21.87  | 21.96  | 24.99   | 24.95  | 24.86  |
|                    |            | 128              | 0            | 21.80                   | 21.90  | 22.07  | 21.72  | 21.88  | 22.03  | 24.77   | 24.90  | 25.06  |

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

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |              |              |              |              |        |         |              |              |
|--------------------|------------|------------------|--------------|-------------------------|--------------|--------------|--------------|--------------|--------|---------|--------------|--------------|
|                    |            |                  |              | ANT 7                   |              |              | ANT 8        |              |        | ANT 7+8 |              |              |
|                    |            |                  |              | 632000                  | 633332       | 634666       | 632000       | 633332       | 634666 | 632000  | 633332       | 634666       |
| 60.0               | BPSK       | 1                | 0            | 22.23                   | 22.37        | 22.71        | 22.23        | 22.70        | 22.47  | 25.24   | 25.55        | 25.60        |
|                    |            | 1                | 1            | 27.76                   | <b>28.24</b> | 28.16        | 27.91        | 27.71        | 28.16  | 30.85   | 30.99        | <b>31.17</b> |
|                    |            | 1                | 160          | 28.16                   | 27.75        | 27.88        | 28.10        | <b>28.18</b> | 27.92  | 31.14   | 30.98        | 30.91        |
|                    |            | 1                | 161          | 22.54                   | 22.26        | 22.56        | 22.22        | 22.68        | 22.28  | 25.39   | 25.49        | 25.43        |
|                    |            | 81               | 40           | 26.68                   | 26.23        | 26.61        | 26.38        | 26.38        | 26.47  | 29.54   | 29.32        | 29.55        |
|                    |            | 162              | 0            | 26.51                   | 26.42        | 26.27        | 26.64        | 26.31        | 26.67  | 29.59   | 29.38        | 29.48        |
|                    |            | 1                | 0            | 21.94                   | 21.84        | 21.72        | 21.84        | 21.81        | 22.03  | 24.90   | 24.84        | 24.89        |
|                    |            | 1                | 1            | <b>28.29</b>            | 28.20        | 28.02        | 27.75        | <b>28.16</b> | 27.82  | 31.04   | 31.19        | 30.93        |
|                    | QPSK       | 1                | 160          | 28.13                   | 28.21        | 28.09        | 27.78        | 28.15        | 28.11  | 30.97   | <b>31.19</b> | 31.11        |
|                    |            | 1                | 161          | 21.92                   | 21.90        | 21.94        | 22.11        | 21.99        | 22.12  | 25.03   | 24.96        | 25.04        |
|                    |            | 81               | 40           | 26.05                   | 25.83        | 26.17        | 26.04        | 26.19        | 25.93  | 29.06   | 29.02        | 29.06        |
|                    |            | 162              | 0            | 25.84                   | 25.82        | 26.14        | 25.97        | 26.04        | 25.73  | 28.92   | 28.94        | 28.95        |
|                    | 16QAM      | 1                | 0            | 22.07                   | 21.87        | 22.07        | 22.01        | 21.78        | 22.21  | 25.05   | 24.84        | 25.15        |
|                    |            | 1                | 1            | 27.71                   | 28.01        | 27.72        | 28.08        | 27.90        | 28.10  | 30.91   | 30.97        | 30.92        |
|                    |            | 1                | 160          | 27.84                   | 27.87        | <b>28.13</b> | <b>28.16</b> | 27.90        | 27.98  | 31.01   | 30.90        | <b>31.07</b> |
|                    |            | 1                | 161          | 21.86                   | 22.04        | 22.04        | 21.82        | 21.73        | 22.17  | 24.85   | 24.90        | 25.12        |
|                    |            | 81               | 40           | 25.10                   | 24.85        | 25.16        | 25.21        | 24.76        | 25.09  | 28.17   | 27.82        | 28.14        |
|                    |            | 162              | 0            | 25.09                   | 25.00        | 25.13        | 24.94        | 25.02        | 24.79  | 28.03   | 28.02        | 27.97        |
|                    |            | 1                | 0            | 22.03                   | 21.75        | 22.05        | 21.77        | 21.74        | 22.03  | 24.91   | 24.76        | 25.05        |
|                    |            | 1                | 1            | 26.01                   | <b>26.20</b> | 25.77        | 26.06        | 25.98        | 25.82  | 29.05   | <b>29.10</b> | 28.81        |
|                    | 64QAM      | 1                | 160          | 25.93                   | 25.84        | 26.11        | 25.88        | <b>26.10</b> | 25.81  | 28.92   | 28.98        | 28.97        |
|                    |            | 1                | 161          | 22.18                   | 21.93        | 22.05        | 22.10        | 21.89        | 22.11  | 25.15   | 24.92        | 25.09        |
|                    |            | 81               | 40           | 24.53                   | 24.40        | 24.70        | 24.27        | 24.27        | 24.27  | 27.41   | 27.35        | 27.50        |
|                    |            | 162              | 0            | 24.65                   | 24.24        | 24.29        | 24.21        | 24.30        | 24.38  | 27.45   | 27.28        | 27.35        |
|                    | 256QAM     | 1                | 0            | 22.02                   | 22.10        | 21.91        | 22.11        | 22.08        | 21.74  | 25.08   | 25.10        | 24.84        |
|                    |            | 1                | 1            | 22.87                   | 22.81        | 22.73        | <b>23.06</b> | 22.87        | 22.73  | 25.98   | 25.85        | 25.74        |
|                    |            | 1                | 160          | 22.98                   | 23.09        | <b>23.21</b> | 22.99        | 22.98        | 22.81  | 26.00   | <b>26.05</b> | 26.02        |
|                    |            | 1                | 161          | 21.80                   | 22.01        | 22.04        | 21.79        | 21.73        | 21.73  | 24.81   | 24.88        | 24.90        |
|                    |            | 81               | 40           | 21.86                   | 21.88        | 21.86        | 22.12        | 21.99        | 21.98  | 25.00   | 24.95        | 24.93        |
|                    |            | 162              | 0            | 21.95                   | 21.89        | 21.83        | 22.00        | 21.72        | 21.84  | 24.99   | 24.82        | 24.85        |

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

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |              |              |              |              |        |              |              |              |
|--------------------|------------|------------------|--------------|-------------------------|--------------|--------------|--------------|--------------|--------|--------------|--------------|--------------|
|                    |            |                  |              | ANT 7                   |              |              | ANT 8        |              |        | ANT 7+8      |              |              |
|                    |            |                  |              | 632333                  | 633332       | 634333       | 632333       | 633332       | 634333 | 632333       | 633332       | 634333       |
| 70.0               | BPSK       | 1                | 0            | 22.50                   | 22.59        | 22.53        | 22.26        | 22.34        | 22.35  | 25.39        | 25.48        | 25.45        |
|                    |            | 1                | 1            | 28.11                   | 28.09        | <b>28.20</b> | <b>28.15</b> | 27.95        | 27.73  | <b>31.14</b> | 31.03        | 30.98        |
|                    |            | 1                | 187          | 27.83                   | 27.91        | 28.04        | 28.03        | <b>28.15</b> | 27.92  | 30.94        | 31.04        | 30.99        |
|                    |            | 1                | 188          | 22.35                   | 22.67        | 22.43        | 22.50        | 22.53        | 22.64  | 25.44        | 25.61        | 25.55        |
|                    |            | 90               | 45           | 26.71                   | 26.69        | 26.66        | 26.34        | 26.61        | 26.27  | 29.54        | 29.66        | 29.48        |
|                    |            | 180              | 0            | 26.39                   | 26.30        | 26.63        | 26.38        | 26.39        | 26.25  | 29.40        | 29.36        | 29.45        |
|                    | QPSK       | 1                | 0            | 22.19                   | 21.87        | 22.16        | 21.76        | 21.87        | 21.78  | 24.99        | 24.88        | 24.98        |
|                    |            | 1                | 1            | 28.14                   | 28.20        | 28.38        | 27.91        | 28.14        | 27.98  | 31.04        | 31.18        | <b>31.19</b> |
|                    |            | 1                | 187          | 28.12                   | 28.10        | <b>28.38</b> | <b>28.20</b> | 27.90        | 27.81  | 31.17        | 31.01        | 31.11        |
|                    |            | 1                | 188          | 22.21                   | 21.75        | 22.00        | 21.71        | 22.00        | 21.99  | 24.98        | 24.89        | 25.01        |
|                    |            | 90               | 45           | 25.81                   | 26.11        | 26.05        | 26.12        | 26.19        | 25.76  | 28.98        | 29.16        | 28.92        |
|                    |            | 180              | 0            | 25.87                   | 26.21        | 26.03        | 26.04        | 25.83        | 26.14  | 28.97        | 29.03        | 29.10        |
|                    | 16QAM      | 1                | 0            | 22.15                   | 22.10        | 21.86        | 21.84        | 21.71        | 21.93  | 25.01        | 24.92        | 24.91        |
|                    |            | 1                | 1            | 27.95                   | 27.89        | 27.98        | <b>28.16</b> | 28.14        | 27.72  | 31.07        | 31.03        | 30.86        |
|                    |            | 1                | 187          | <b>28.21</b>            | 27.98        | 28.16        | 28.15        | 27.85        | 28.07  | <b>31.19</b> | 30.93        | 31.13        |
|                    |            | 1                | 188          | 22.03                   | 21.94        | 22.01        | 22.19        | 21.76        | 21.77  | 25.12        | 24.86        | 24.90        |
|                    |            | 90               | 45           | 24.97                   | 25.08        | 25.13        | 25.15        | 25.14        | 25.11  | 28.07        | 28.12        | 28.13        |
|                    |            | 180              | 0            | 25.15                   | 24.87        | 24.85        | 25.06        | 24.75        | 24.81  | 28.12        | 27.82        | 27.84        |
|                    | 64QAM      | 1                | 0            | 21.77                   | 21.90        | 21.85        | 22.04        | 22.04        | 22.15  | 24.92        | 24.98        | 25.01        |
|                    |            | 1                | 1            | 25.80                   | <b>26.13</b> | 25.94        | 25.88        | <b>26.07</b> | 26.06  | 28.85        | <b>29.11</b> | 29.01        |
|                    |            | 1                | 187          | 25.88                   | 26.00        | 25.91        | 25.74        | 25.96        | 26.06  | 28.82        | 28.99        | 29.00        |
|                    |            | 1                | 188          | 21.74                   | 21.96        | 21.72        | 22.05        | 22.00        | 21.80  | 24.91        | 24.99        | 24.77        |
|                    |            | 90               | 45           | 24.32                   | 24.56        | 24.34        | 24.62        | 24.37        | 24.38  | 27.48        | 27.48        | 27.37        |
|                    |            | 180              | 0            | 24.36                   | 24.27        | 24.49        | 24.27        | 24.45        | 24.28  | 27.33        | 27.37        | 27.40        |
|                    | 256QAM     | 1                | 0            | 22.04                   | 22.03        | 21.94        | 22.18        | 22.05        | 21.72  | 25.12        | 25.05        | 24.84        |
|                    |            | 1                | 1            | 22.76                   | 23.00        | <b>23.17</b> | 22.89        | <b>23.21</b> | 22.89  | 25.84        | <b>26.12</b> | 26.04        |
|                    |            | 1                | 187          | 23.07                   | 22.87        | 22.72        | 22.97        | 22.73        | 22.85  | 26.03        | 25.81        | 25.80        |
|                    |            | 1                | 188          | 21.92                   | 21.88        | 22.07        | 22.07        | 21.81        | 21.99  | 25.01        | 24.86        | 25.04        |
|                    |            | 90               | 45           | 22.19                   | 21.99        | 22.05        | 22.02        | 21.88        | 21.73  | 25.12        | 24.95        | 24.90        |
|                    |            | 180              | 0            | 21.93                   | 22.15        | 21.79        | 22.10        | 21.74        | 22.03  | 25.03        | 24.96        | 24.92        |

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

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) |              |              |              |              |        |              |              |              |
|-----------------|------------|---------------|-----------|-------------------------|--------------|--------------|--------------|--------------|--------|--------------|--------------|--------------|
|                 |            |               |           | ANT 7                   |              |              | ANT 8        |              |        | ANT 7+8      |              |              |
|                 |            |               |           | 632666                  | 633332       | 633998       | 632666       | 633332       | 633998 | 632666       | 633332       | 633998       |
| 80.0            | BPSK       | 1             | 0         | 3490.0                  | 3500.0       | 3510.0       | 3490.0       | 3500.0       | 3510.0 | 3490.0       | 3500.0       | 3510.0       |
|                 |            | 1             | 1         | 22.70                   | 22.37        | 22.61        | 22.24        | 22.35        | 22.42  | 25.49        | 25.37        | 25.53        |
|                 |            | 1             | 1         | 28.12                   | <b>28.33</b> | 28.09        | 28.11        | 28.00        | 27.72  | 31.13        | <b>31.18</b> | 30.92        |
|                 |            | 1             | 215       | 28.02                   | 28.01        | 27.92        | 27.82        | <b>28.20</b> | 27.77  | 30.93        | 31.12        | 30.86        |
|                 |            | 1             | 216       | 22.65                   | 22.34        | 22.44        | 22.59        | 22.56        | 22.54  | 25.63        | 25.46        | 25.50        |
|                 |            | 108           | 54        | 26.43                   | 26.39        | 26.48        | 26.46        | 26.43        | 26.28  | 29.46        | 29.42        | 29.39        |
|                 | QPSK       | 216           | 0         | 26.37                   | 26.32        | 26.61        | 26.28        | 26.55        | 26.43  | 29.34        | 29.45        | 29.53        |
|                 |            | 1             | 0         | 22.13                   | 22.12        | 21.91        | 21.76        | 22.16        | 21.79  | 24.96        | 25.15        | 24.86        |
|                 |            | 1             | 1         | 28.13                   | 28.15        | <b>28.39</b> | <b>28.13</b> | 27.77        | 27.79  | <b>31.14</b> | 30.97        | 31.11        |
|                 |            | 1             | 215       | 28.16                   | 28.14        | 28.12        | 27.94        | 27.90        | 28.02  | 31.06        | 31.03        | 31.08        |
|                 |            | 1             | 216       | 21.97                   | 21.77        | 21.72        | 22.11        | 21.72        | 21.98  | 25.05        | 24.76        | 24.86        |
|                 |            | 108           | 54        | 26.05                   | 25.84        | 26.08        | 26.05        | 25.78        | 25.88  | 29.06        | 28.82        | 28.99        |
|                 | 16QAM      | 216           | 0         | 25.99                   | 25.77        | 26.12        | 25.98        | 25.87        | 25.83  | 29.00        | 28.83        | 28.99        |
|                 |            | 1             | 0         | 21.81                   | 22.20        | 21.98        | 21.73        | 21.81        | 21.90  | 24.78        | 25.02        | 24.95        |
|                 |            | 1             | 1         | 27.73                   | 27.86        | 27.77        | 28.09        | 27.83        | 27.93  | 30.92        | 30.86        | 30.86        |
|                 |            | 1             | 215       | 27.72                   | <b>28.12</b> | 27.90        | 27.91        | <b>28.18</b> | 27.82  | 30.83        | <b>31.16</b> | 30.87        |
|                 |            | 1             | 216       | 22.19                   | 21.71        | 21.79        | 21.85        | 21.84        | 21.98  | 25.03        | 24.79        | 24.90        |
|                 |            | 108           | 54        | 24.79                   | 24.86        | 24.82        | 25.04        | 25.06        | 24.75  | 27.93        | 27.97        | 27.80        |
|                 | 64QAM      | 216           | 0         | 24.98                   | 25.08        | 24.99        | 25.05        | 24.72        | 25.02  | 28.03        | 27.91        | 28.02        |
|                 |            | 1             | 0         | 22.05                   | 22.11        | 22.02        | 21.95        | 22.16        | 22.00  | 25.01        | 25.15        | 25.02        |
|                 |            | 1             | 1         | 25.75                   | <b>26.15</b> | 26.05        | 25.97        | 25.74        | 26.08  | 28.87        | 28.96        | <b>29.08</b> |
|                 |            | 1             | 215       | 25.86                   | 25.91        | 26.08        | <b>26.15</b> | 26.07        | 25.91  | 29.02        | 29.00        | 29.01        |
|                 |            | 1             | 216       | 22.00                   | 21.76        | 22.11        | 21.75        | 21.97        | 22.15  | 24.89        | 24.88        | 25.14        |
|                 |            | 108           | 54        | 24.59                   | 24.68        | 24.24        | 24.66        | 24.52        | 24.31  | 27.64        | 27.61        | 27.29        |
|                 | 256QAM     | 216           | 0         | 24.71                   | 24.46        | 24.64        | 24.51        | 24.22        | 24.65  | 27.62        | 27.35        | 27.66        |
|                 |            | 1             | 0         | 21.72                   | 21.75        | 21.99        | 21.83        | 21.99        | 22.08  | 24.79        | 24.88        | 25.05        |
|                 |            | 1             | 1         | 22.86                   | <b>23.17</b> | 23.15        | 23.10        | 23.01        | 22.93  | 25.99        | 26.10        | 26.05        |
|                 |            | 1             | 215       | 22.83                   | 22.96        | 23.13        | 23.08        | <b>23.20</b> | 23.08  | 25.97        | 26.09        | <b>26.12</b> |
|                 |            | 1             | 216       | 21.97                   | 21.84        | 21.89        | 21.73        | 22.12        | 22.13  | 24.86        | 24.99        | 25.02        |
|                 |            | 108           | 54        | 21.84                   | 21.78        | 21.76        | 22.03        | 22.07        | 22.16  | 24.95        | 24.94        | 24.97        |
|                 |            | 216           | 0         | 22.17                   | 21.80        | 21.98        | 21.83        | 22.12        | 21.79  | 25.01        | 24.97        | 24.90        |

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

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Conducted Average (dBm) |              |              |              |              |              |              |        |              |
|-----------------|------------|---------------|-----------|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------|--------------|
|                 |            |               |           | ANT 7                   |              |              | ANT 8        |              |              | ANT 7+8      |        |              |
|                 |            |               |           | 633000                  | 633332       | 633666       | 633000       | 633332       | 633666       | 633000       | 633332 | 633666       |
| 90.0            | BPSK       | 1             | 0         | 3495.0                  | 3500.0       | 3505.0       | 3495.0       | 3500.0       | 3505.0       | 3495.0       | 3500.0 | 3505.0       |
|                 |            | 1             | 1         | 22.69                   | 22.22        | 22.58        | 22.65        | 22.38        | 22.50        | 25.68        | 25.31  | 25.55        |
|                 |            | 1             | 1         | <b>28.28</b>            | 28.03        | 27.90        | 28.00        | 27.86        | <b>28.16</b> | <b>31.15</b> | 30.96  | 31.04        |
|                 |            | 1             | 243       | 28.06                   | 28.08        | 28.08        | <b>28.16</b> | 28.04        | 28.13        | 31.12        | 31.07  | 31.12        |
|                 |            | 1             | 244       | 22.42                   | 22.52        | 22.36        | 22.45        | 22.39        | 22.66        | 25.45        | 25.47  | 25.52        |
|                 |            | 120           | 60        | 26.61                   | 26.50        | 26.32        | 26.35        | 26.53        | 26.58        | 29.49        | 29.53  | 29.46        |
|                 | QPSK       | 243           | 0         | 26.28                   | 26.29        | 26.22        | 26.45        | 26.23        | 26.70        | 29.38        | 29.27  | 29.48        |
|                 |            | 1             | 0         | 22.05                   | 21.93        | 21.93        | 21.76        | 22.07        | 22.17        | 24.92        | 25.01  | 25.06        |
|                 |            | 1             | 1         | 28.17                   | 28.06        | 28.02        | 28.14        | 27.89        | 28.12        | 31.17        | 30.99  | 31.08        |
|                 |            | 1             | 243       | 28.01                   | <b>28.23</b> | 28.19        | 27.94        | 27.85        | <b>28.18</b> | 30.99        | 31.05  | <b>31.20</b> |
|                 |            | 1             | 244       | 22.16                   | 22.18        | 22.10        | 21.77        | 21.87        | 22.11        | 24.98        | 25.04  | 25.12        |
|                 |            | 120           | 60        | 26.16                   | 25.90        | 26.08        | 25.95        | 26.19        | 25.82        | 29.07        | 29.06  | 28.96        |
|                 | 16QAM      | 243           | 0         | 26.02                   | 25.97        | 26.14        | 25.99        | 25.84        | 25.89        | 29.02        | 28.92  | 29.03        |
|                 |            | 1             | 0         | 21.90                   | 21.88        | 22.17        | 21.80        | 21.88        | 21.89        | 24.86        | 24.89  | 25.04        |
|                 |            | 1             | 1         | 27.95                   | 27.92        | 28.04        | 28.03        | 28.01        | 27.77        | 31.00        | 30.98  | 30.92        |
|                 |            | 1             | 243       | 28.01                   | 27.78        | <b>28.08</b> | 28.07        | <b>28.09</b> | 27.79        | <b>31.05</b> | 30.95  | 30.95        |
|                 |            | 1             | 244       | 21.81                   | 22.03        | 21.93        | 21.86        | 22.16        | 21.75        | 24.85        | 25.11  | 24.85        |
|                 |            | 120           | 60        | 24.93                   | 24.79        | 25.12        | 25.03        | 24.94        | 24.81        | 27.99        | 27.88  | 27.98        |
|                 | 64QAM      | 243           | 0         | 24.95                   | 24.91        | 24.95        | 25.07        | 25.06        | 25.01        | 28.02        | 28.00  | 27.99        |
|                 |            | 1             | 0         | 21.79                   | 21.79        | 22.12        | 22.17        | 21.86        | 21.86        | 24.99        | 24.84  | 25.00        |
|                 |            | 1             | 1         | 25.77                   | 25.75        | <b>26.08</b> | 25.98        | 25.96        | 26.09        | 28.89        | 28.87  | 29.10        |
|                 |            | 1             | 243       | 25.76                   | 25.78        | 26.01        | 25.82        | 26.16        | <b>26.17</b> | 28.80        | 28.98  | <b>29.10</b> |
|                 |            | 1             | 244       | 22.12                   | 22.00        | 21.94        | 22.13        | 21.86        | 22.19        | 25.14        | 24.94  | 25.08        |
|                 |            | 120           | 60        | 24.61                   | 24.54        | 24.45        | 24.27        | 24.39        | 24.48        | 27.45        | 27.48  | 27.48        |
|                 | 256QAM     | 243           | 0         | 24.47                   | 24.22        | 24.31        | 24.60        | 24.49        | 24.56        | 27.55        | 27.37  | 27.45        |
|                 |            | 1             | 0         | 21.90                   | 21.96        | 21.78        | 21.96        | 22.13        | 21.91        | 24.94        | 25.06  | 24.86        |
|                 |            | 1             | 1         | 23.06                   | 22.87        | 23.00        | 23.13        | <b>23.17</b> | 22.98        | 26.11        | 26.03  | 26.00        |
|                 |            | 1             | 243       | <b>23.15</b>            | 23.08        | 22.73        | 23.05        | 22.84        | 23.05        | <b>26.11</b> | 25.97  | 25.90        |
|                 |            | 1             | 244       | 22.07                   | 21.94        | 21.84        | 21.90        | 21.81        | 21.97        | 25.00        | 24.89  | 24.92        |
|                 |            | 120           | 60        | 21.81                   | 21.83        | 21.74        | 22.01        | 22.07        | 21.82        | 24.92        | 24.96  | 24.79        |
|                 |            | 243           | 0         | 22.10                   | 22.20        | 22.05        | 22.19        | 21.79        | 22.03        | 25.16        | 25.01  | 25.05        |

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

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |        |     |       |        |     |         |        |
|--------------------|------------|------------------|--------------|-------------------------|--------|-----|-------|--------|-----|---------|--------|
|                    |            |                  |              | ANT 7                   |        |     | ANT 8 |        |     | ANT 7+8 |        |
|                    |            |                  |              | N/A                     | 633332 | N/A | N/A   | 633332 | N/A | N/A     | 633332 |
| 100.0              | BPSK       | 1                | 0            | N/A                     | 3500.0 | N/A | N/A   | 3500.0 | N/A | N/A     | 3500.0 |
|                    |            | 1                | 1            |                         | 22.33  |     |       | 22.22  |     |         | 25.29  |
|                    |            | 1                | 271          |                         | 27.95  |     |       | 28.19  |     |         | 31.08  |
|                    |            | 1                | 272          |                         | 28.21  |     |       | 27.72  |     |         | 30.98  |
|                    |            | 135              | 67           |                         | 22.53  |     |       | 22.69  |     |         | 25.62  |
|                    |            | 270              | 0            |                         | 26.52  |     |       | 26.22  |     |         | 29.38  |
|                    | QPSK       | 1                | 0            |                         | 26.27  |     |       | 26.45  |     |         | 29.37  |
|                    |            | 1                | 1            |                         | 21.98  |     |       | 22.00  |     |         | 25.00  |
|                    |            | 1                | 271          |                         | 27.84  |     |       | 27.86  |     |         | 30.86  |
|                    |            | 1                | 272          |                         | 27.88  |     |       | 27.72  |     |         | 30.81  |
|                    |            | 135              | 67           |                         | 22.04  |     |       | 22.14  |     |         | 25.10  |
|                    |            | 270              | 0            |                         | 26.04  |     |       | 25.83  |     |         | 28.95  |
|                    | 16QAM      | 1                | 0            |                         | 26.18  |     |       | 26.19  |     |         | 29.20  |
|                    |            | 1                | 1            |                         | 21.85  |     |       | 22.00  |     |         | 24.94  |
|                    |            | 1                | 271          |                         | 28.15  |     |       | 27.80  |     |         | 30.99  |
|                    |            | 1                | 272          |                         | 27.92  |     |       | 28.03  |     |         | 30.99  |
|                    |            | 135              | 67           |                         | 21.74  |     |       | 22.00  |     |         | 24.88  |
|                    |            | 270              | 0            |                         | 24.94  |     |       | 24.77  |     |         | 27.87  |
|                    | 64QAM      | 1                | 0            |                         | 25.12  |     |       | 24.93  |     |         | 28.04  |
|                    |            | 1                | 1            |                         | 22.07  |     |       | 21.91  |     |         | 25.00  |
|                    |            | 1                | 271          |                         | 26.04  |     |       | 26.17  |     |         | 29.12  |
|                    |            | 1                | 272          |                         | 26.14  |     |       | 26.06  |     |         | 29.11  |
|                    |            | 135              | 67           |                         | 21.95  |     |       | 21.91  |     |         | 24.94  |
|                    |            | 270              | 0            |                         | 24.70  |     |       | 24.66  |     |         | 27.69  |
|                    | 256QAM     | 1                | 0            |                         | 24.27  |     |       | 24.44  |     |         | 27.37  |
|                    |            | 1                | 1            |                         | 21.84  |     |       | 22.13  |     |         | 25.00  |
|                    |            | 1                | 271          |                         | 22.83  |     |       | 23.18  |     |         | 26.02  |
|                    |            | 1                | 272          |                         | 22.94  |     |       | 22.96  |     |         | 25.96  |
|                    |            | 135              | 67           |                         | 21.76  |     |       | 21.89  |     |         | 24.84  |
|                    |            | 270              | 0            |                         | 22.05  |     |       | 21.72  |     |         | 24.90  |
|                    |            | 270              | 0            |                         | 21.87  |     |       | 21.98  |     |         | 24.94  |



### 8.1.3. 5G NR n77 (FCC Part 27 3700-3980MHz)

|                   |       |            |            |
|-------------------|-------|------------|------------|
| Test Engineer ID: | 27342 | Test Date: | 2024-01-11 |
|-------------------|-------|------------|------------|

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

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |        |        |        |        |        |         |        |        |
|--------------------|------------|------------------|--------------|-------------------------|--------|--------|--------|--------|--------|---------|--------|--------|
|                    |            |                  |              | ANT 7                   |        |        | ANT 8  |        |        | ANT 7+8 |        |        |
|                    |            |                  |              | 647000                  | 656000 | 665000 | 647000 | 656000 | 665000 | 647000  | 656000 | 665000 |
| 10.0               | BPSK       | 1                | 0            | 3705.0                  | 3840.0 | 3975.0 | 3705.0 | 3840.0 | 3975.0 | 3705.0  | 3840.0 | 3975.0 |
|                    |            | 1                | 0            | 22.32                   | 22.22  | 22.33  | 22.31  | 22.56  | 22.44  | 25.33   | 25.40  | 25.40  |
|                    |            | 1                | 1            | 27.85                   | 27.98  | 28.20  | 27.91  | 27.89  | 27.79  | 30.89   | 30.95  | 31.01  |
|                    |            | 1                | 22           | 28.04                   | 28.15  | 27.91  | 27.89  | 27.98  | 28.06  | 30.98   | 31.08  | 31.00  |
|                    |            | 1                | 23           | 22.23                   | 22.28  | 22.51  | 22.69  | 22.68  | 22.22  | 25.48   | 25.49  | 25.38  |
|                    |            | 12               | 6            | 26.29                   | 26.64  | 26.50  | 26.24  | 26.60  | 26.29  | 29.28   | 29.63  | 29.41  |
|                    | QPSK       | 24               | 0            | 26.52                   | 26.68  | 26.21  | 26.41  | 26.70  | 26.33  | 29.48   | 29.70  | 29.28  |
|                    |            | 1                | 0            | 22.13                   | 21.97  | 21.82  | 21.85  | 22.06  | 22.01  | 25.00   | 25.03  | 24.93  |
|                    |            | 1                | 1            | 27.76                   | 27.93  | 27.94  | 28.01  | 27.95  | 27.78  | 30.90   | 30.95  | 30.87  |
|                    |            | 1                | 22           | 27.79                   | 27.92  | 27.83  | 27.91  | 27.90  | 27.97  | 30.86   | 30.92  | 30.91  |
|                    |            | 1                | 23           | 22.07                   | 21.99  | 21.81  | 21.96  | 22.13  | 21.71  | 25.03   | 25.07  | 24.77  |
|                    |            | 12               | 6            | 25.92                   | 25.79  | 26.21  | 25.82  | 26.14  | 26.13  | 28.88   | 28.98  | 29.18  |
|                    | 16QAM      | 24               | 0            | 26.07                   | 25.73  | 25.81  | 26.14  | 26.14  | 26.05  | 29.12   | 28.95  | 28.94  |
|                    |            | 1                | 0            | 22.07                   | 22.10  | 21.79  | 21.81  | 22.17  | 22.08  | 24.95   | 25.15  | 24.95  |
|                    |            | 1                | 1            | 27.71                   | 27.77  | 27.74  | 27.97  | 27.74  | 27.99  | 30.85   | 30.77  | 30.88  |
|                    |            | 1                | 22           | 28.09                   | 28.17  | 28.05  | 27.88  | 27.95  | 28.16  | 31.00   | 31.07  | 31.12  |
|                    |            | 1                | 23           | 21.74                   | 22.16  | 22.19  | 22.11  | 21.81  | 22.06  | 24.94   | 25.00  | 25.14  |
|                    |            | 12               | 6            | 24.78                   | 24.85  | 25.13  | 24.90  | 25.03  | 24.88  | 27.85   | 27.95  | 28.02  |
|                    | 64QAM      | 24               | 0            | 24.93                   | 25.10  | 24.73  | 24.92  | 24.92  | 24.94  | 27.94   | 28.02  | 27.85  |
|                    |            | 1                | 0            | 21.97                   | 21.88  | 22.11  | 22.21  | 22.15  | 22.11  | 25.10   | 25.03  | 25.12  |
|                    |            | 1                | 1            | 25.81                   | 26.05  | 26.18  | 25.75  | 26.14  | 26.05  | 28.79   | 29.11  | 29.13  |
|                    |            | 1                | 22           | 26.12                   | 26.06  | 26.00  | 25.92  | 25.77  | 25.73  | 29.03   | 28.93  | 28.88  |
|                    |            | 1                | 23           | 22.06                   | 22.16  | 21.87  | 21.82  | 22.17  | 21.74  | 24.95   | 25.18  | 24.82  |
|                    |            | 12               | 6            | 24.55                   | 24.40  | 24.34  | 24.49  | 24.51  | 24.69  | 27.53   | 27.47  | 27.53  |
|                    | 256QAM     | 24               | 0            | 24.25                   | 24.22  | 24.29  | 24.45  | 24.54  | 24.32  | 27.36   | 27.39  | 27.32  |
|                    |            | 1                | 0            | 21.90                   | 22.20  | 21.74  | 22.01  | 22.11  | 21.89  | 24.97   | 25.17  | 24.83  |
|                    |            | 1                | 1            | 22.92                   | 22.85  | 22.88  | 22.73  | 23.09  | 22.71  | 25.84   | 25.98  | 25.81  |
|                    |            | 1                | 22           | 22.97                   | 23.15  | 22.92  | 23.00  | 22.80  | 22.90  | 26.00   | 25.99  | 25.92  |
|                    |            | 1                | 23           | 21.88                   | 21.87  | 21.72  | 21.91  | 21.84  | 22.16  | 24.91   | 24.87  | 24.96  |
|                    |            | 12               | 6            | 21.79                   | 21.93  | 21.73  | 21.75  | 22.01  | 21.77  | 24.78   | 24.98  | 24.76  |
|                    |            | 24               | 0            | 22.02                   | 21.79  | 21.99  | 21.96  | 22.19  | 22.10  | 25.00   | 25.00  | 25.06  |

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

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |        |        |        |        |        |         |        |        |
|--------------------|------------|------------------|--------------|-------------------------|--------|--------|--------|--------|--------|---------|--------|--------|
|                    |            |                  |              | ANT 7                   |        |        | ANT 8  |        |        | ANT 7+8 |        |        |
|                    |            |                  |              | 647166                  | 656000 | 664833 | 647166 | 656000 | 664833 | 647166  | 656000 | 664833 |
| 15.0               | BPSK       | 1                | 0            | 3707.5                  | 3840.0 | 3972.5 | 3707.5 | 3840.0 | 3972.5 | 3707.5  | 3840.0 | 3972.5 |
|                    |            | 1                | 0            | 22.71                   | 22.38  | 22.68  | 22.32  | 22.37  | 22.63  | 25.53   | 25.39  | 25.67  |
|                    |            | 1                | 1            | 27.83                   | 28.04  | 28.05  | 27.76  | 28.05  | 28.05  | 30.81   | 31.06  | 31.06  |
|                    |            | 1                | 36           | 27.84                   | 28.18  | 28.10  | 27.75  | 28.06  | 27.90  | 30.81   | 31.13  | 31.01  |
|                    |            | 1                | 37           | 22.57                   | 22.34  | 22.36  | 22.55  | 22.33  | 22.26  | 25.57   | 25.35  | 25.32  |
|                    |            | 18               | 9            | 26.58                   | 26.23  | 26.31  | 26.28  | 26.62  | 26.58  | 29.44   | 29.44  | 29.46  |
|                    | QPSK       | 36               | 0            | 26.34                   | 26.34  | 26.34  | 26.41  | 26.36  | 26.57  | 29.39   | 29.36  | 29.47  |
|                    |            | 1                | 0            | 21.87                   | 22.19  | 21.74  | 21.79  | 21.90  | 22.09  | 24.84   | 25.06  | 24.93  |
|                    |            | 1                | 1            | 27.81                   | 28.13  | 28.46  | 27.76  | 27.82  | 27.80  | 30.80   | 30.99  | 31.15  |
|                    |            | 1                | 36           | 27.76                   | 28.10  | 28.00  | 27.79  | 27.94  | 27.79  | 30.79   | 31.03  | 30.91  |
|                    |            | 1                | 37           | 21.90                   | 21.77  | 21.88  | 21.93  | 22.09  | 21.87  | 24.93   | 24.94  | 24.89  |
|                    |            | 18               | 9            | 25.79                   | 25.80  | 25.78  | 25.82  | 25.97  | 25.93  | 28.82   | 28.90  | 28.87  |
|                    | 16QAM      | 36               | 0            | 26.05                   | 26.02  | 26.03  | 25.82  | 25.91  | 25.77  | 28.95   | 28.98  | 28.91  |
|                    |            | 1                | 0            | 22.51                   | 22.19  | 21.76  | 22.10  | 21.92  | 22.11  | 25.32   | 25.07  | 24.95  |
|                    |            | 1                | 1            | 27.99                   | 27.86  | 27.75  | 28.07  | 28.08  | 28.20  | 31.04   | 30.98  | 30.99  |
|                    |            | 1                | 36           | 27.84                   | 28.17  | 27.75  | 28.17  | 28.08  | 28.15  | 31.02   | 31.14  | 30.96  |
|                    |            | 1                | 37           | 21.72                   | 22.20  | 21.95  | 22.05  | 22.21  | 21.88  | 24.90   | 25.22  | 24.93  |
|                    |            | 18               | 9            | 24.80                   | 24.91  | 25.10  | 25.02  | 25.00  | 24.98  | 27.92   | 27.97  | 28.05  |
|                    | 64QAM      | 36               | 0            | 25.00                   | 24.78  | 24.99  | 25.09  | 24.96  | 25.20  | 28.06   | 27.88  | 28.11  |
|                    |            | 1                | 0            | 21.85                   | 21.77  | 22.02  | 21.74  | 22.00  | 21.91  | 24.81   | 24.90  | 24.98  |
|                    |            | 1                | 1            | 25.92                   | 25.83  | 25.74  | 26.10  | 26.18  | 26.16  | 29.02   | 29.02  | 28.97  |
|                    |            | 1                | 36           | 26.05                   | 26.07  | 26.00  | 25.89  | 25.88  | 26.15  | 28.98   | 28.99  | 29.09  |
|                    |            | 1                | 37           | 22.12                   | 22.15  | 21.98  | 21.87  | 21.89  | 22.14  | 25.01   | 25.03  | 25.07  |
|                    |            | 18               | 9            | 24.76                   | 24.46  | 24.59  | 24.50  | 24.28  | 24.56  | 27.64   | 27.38  | 27.59  |
|                    | 256QAM     | 36               | 0            | 24.55                   | 24.63  | 24.59  | 24.70  | 24.54  | 24.58  | 27.64   | 27.60  | 27.60  |
|                    |            | 1                | 0            | 21.86                   | 22.11  | 21.74  | 21.97  | 21.99  | 22.07  | 24.93   | 25.06  | 24.92  |
|                    |            | 1                | 1            | 23.36                   | 23.19  | 22.73  | 22.90  | 23.14  | 22.90  | 26.15   | 26.18  | 25.83  |
|                    |            | 1                | 36           | 22.75                   | 23.04  | 23.03  | 22.86  | 23.13  | 22.82  | 25.82   | 26.10  | 25.94  |
|                    |            | 1                | 37           | 21.87                   | 22.08  | 21.77  | 22.17  | 21.86  | 21.79  | 25.03   | 24.98  | 24.79  |
|                    |            | 18               | 9            | 21.99                   | 21.79  | 22.17  | 22.15  | 21.94  | 21.95  | 25.08   | 24.88  | 25.07  |
|                    |            | 36               | 0            | 22.17                   | 21.75  | 21.72  | 22.05  | 22.19  | 21.86  | 25.12   | 24.99  | 24.80  |



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

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |        |        |        |        |        |         |        |        |
|--------------------|------------|------------------|--------------|-------------------------|--------|--------|--------|--------|--------|---------|--------|--------|
|                    |            |                  |              | ANT 7                   |        |        | ANT 8  |        |        | ANT 7+8 |        |        |
|                    |            |                  |              | 647333                  | 656000 | 664666 | 647333 | 656000 | 664666 | 647333  | 656000 | 664666 |
| 20.0               | BPSK       | 1                | 0            | 22.32                   | 22.49  | 22.59  | 22.33  | 22.60  | 22.56  | 25.34   | 25.56  | 25.59  |
|                    |            | 1                | 1            | 27.89                   | 28.10  | 28.39  | 28.28  | 28.11  | 27.92  | 31.10   | 31.12  | 31.17  |
|                    |            | 1                | 49           | 27.94                   | 28.15  | 27.78  | 28.31  | 27.76  | 28.17  | 31.14   | 30.97  | 30.99  |
|                    |            | 1                | 50           | 22.59                   | 22.39  | 22.28  | 22.69  | 22.70  | 22.30  | 25.65   | 25.56  | 25.30  |
|                    |            | 25               | 12           | 26.59                   | 26.49  | 26.53  | 26.64  | 26.36  | 26.68  | 29.63   | 29.44  | 29.62  |
|                    |            | 50               | 0            | 26.44                   | 26.38  | 26.40  | 26.42  | 26.57  | 26.33  | 29.44   | 29.49  | 29.38  |
|                    | QPSK       | 1                | 0            | 21.89                   | 21.88  | 22.21  | 21.85  | 22.11  | 22.01  | 24.88   | 25.01  | 25.12  |
|                    |            | 1                | 1            | 27.76                   | 27.82  | 27.71  | 27.83  | 28.12  | 28.21  | 30.81   | 30.98  | 30.98  |
|                    |            | 1                | 49           | 27.76                   | 28.15  | 28.14  | 28.09  | 28.14  | 27.85  | 30.94   | 31.16  | 31.01  |
|                    |            | 1                | 50           | 22.04                   | 22.06  | 22.14  | 22.11  | 21.90  | 22.17  | 25.09   | 24.99  | 25.17  |
|                    |            | 25               | 12           | 26.15                   | 26.19  | 25.89  | 25.77  | 25.80  | 26.10  | 28.97   | 29.01  | 29.01  |
|                    |            | 50               | 0            | 26.03                   | 26.18  | 26.16  | 26.07  | 26.20  | 25.93  | 29.06   | 29.20  | 29.06  |
|                    | 16QAM      | 1                | 0            | 21.81                   | 21.81  | 22.06  | 22.21  | 22.06  | 21.73  | 25.02   | 24.95  | 24.91  |
|                    |            | 1                | 1            | 27.90                   | 27.92  | 28.17  | 27.96  | 28.04  | 27.78  | 30.94   | 30.99  | 30.99  |
|                    |            | 1                | 49           | 27.74                   | 27.85  | 27.74  | 27.97  | 28.20  | 27.91  | 30.87   | 31.04  | 30.84  |
|                    |            | 1                | 50           | 21.98                   | 22.17  | 21.73  | 22.19  | 21.86  | 21.76  | 25.10   | 25.03  | 24.76  |
|                    |            | 25               | 12           | 24.82                   | 24.77  | 24.87  | 24.91  | 24.80  | 24.99  | 27.88   | 27.80  | 27.94  |
|                    |            | 50               | 0            | 24.87                   | 24.73  | 25.19  | 24.81  | 25.08  | 25.04  | 27.85   | 27.92  | 28.13  |
|                    | 64QAM      | 1                | 0            | 22.18                   | 21.82  | 21.79  | 22.07  | 21.95  | 21.88  | 25.14   | 24.90  | 24.85  |
|                    |            | 1                | 1            | 26.13                   | 25.87  | 25.83  | 26.10  | 25.87  | 25.87  | 29.13   | 28.88  | 28.86  |
|                    |            | 1                | 49           | 25.78                   | 26.19  | 25.88  | 26.21  | 26.01  | 25.81  | 29.01   | 29.11  | 28.86  |
|                    |            | 1                | 50           | 21.77                   | 21.84  | 21.79  | 21.90  | 22.09  | 22.17  | 24.85   | 24.98  | 24.99  |
|                    |            | 25               | 12           | 24.54                   | 24.63  | 24.68  | 24.52  | 24.57  | 24.37  | 27.54   | 27.61  | 27.54  |
|                    |            | 50               | 0            | 24.59                   | 24.63  | 24.26  | 24.55  | 24.50  | 24.53  | 27.58   | 27.58  | 27.41  |
|                    | 256QAM     | 1                | 0            | 21.74                   | 22.47  | 22.20  | 22.06  | 21.73  | 21.96  | 24.91   | 25.13  | 25.09  |
|                    |            | 1                | 1            | 22.98                   | 23.18  | 22.79  | 23.19  | 23.08  | 23.16  | 26.10   | 26.14  | 25.99  |
|                    |            | 1                | 49           | 22.89                   | 23.10  | 22.75  | 23.04  | 23.01  | 22.93  | 25.98   | 26.07  | 25.85  |
|                    |            | 1                | 50           | 22.03                   | 21.92  | 22.02  | 22.15  | 22.10  | 22.09  | 25.10   | 25.02  | 25.07  |
|                    |            | 25               | 12           | 21.73                   | 21.72  | 22.05  | 21.74  | 21.91  | 21.74  | 24.75   | 24.83  | 24.91  |
|                    |            | 50               | 0            | 21.82                   | 21.92  | 21.75  | 22.12  | 22.08  | 21.77  | 24.98   | 25.01  | 24.77  |

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

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |        |        |        |        |        |         |        |        |
|--------------------|------------|------------------|--------------|-------------------------|--------|--------|--------|--------|--------|---------|--------|--------|
|                    |            |                  |              | ANT 7                   |        |        | ANT 8  |        |        | ANT 7+8 |        |        |
|                    |            |                  |              | 647666                  | 656000 | 664333 | 647666 | 656000 | 664333 | 647666  | 656000 | 664333 |
| 30.0               | BPSK       | 1                | 0            | 22.58                   | 22.70  | 22.24  | 22.54  | 22.63  | 22.28  | 25.57   | 25.68  | 25.27  |
|                    |            | 1                | 1            | 28.05                   | 27.99  | 28.21  | 28.00  | 28.08  | 28.09  | 31.04   | 31.05  | 31.16  |
|                    |            | 1                | 76           | 27.93                   | 27.99  | 28.02  | 27.75  | 28.14  | 27.98  | 30.85   | 31.08  | 31.01  |
|                    |            | 1                | 77           | 22.38                   | 22.44  | 22.45  | 22.59  | 22.30  | 22.49  | 25.50   | 25.38  | 25.48  |
|                    |            | 36               | 18           | 26.64                   | 26.48  | 26.62  | 26.22  | 26.67  | 26.27  | 29.45   | 29.59  | 29.46  |
|                    |            | 75               | 0            | 26.49                   | 26.33  | 26.23  | 26.63  | 26.55  | 26.38  | 29.57   | 29.45  | 29.32  |
|                    | QPSK       | 1                | 0            | 21.91                   | 21.72  | 22.11  | 21.81  | 21.83  | 21.82  | 24.87   | 24.79  | 24.98  |
|                    |            | 1                | 1            | 28.09                   | 28.05  | 27.85  | 27.93  | 28.12  | 27.96  | 31.02   | 31.10  | 30.92  |
|                    |            | 1                | 76           | 27.81                   | 27.90  | 27.76  | 28.13  | 27.79  | 27.90  | 30.98   | 30.86  | 30.84  |
|                    |            | 1                | 77           | 22.05                   | 21.82  | 22.08  | 21.78  | 22.09  | 21.97  | 24.93   | 24.97  | 25.04  |
|                    |            | 36               | 18           | 25.79                   | 25.85  | 25.86  | 26.04  | 26.20  | 26.01  | 28.93   | 29.04  | 28.95  |
|                    |            | 75               | 0            | 26.09                   | 25.90  | 25.95  | 26.19  | 25.98  | 25.85  | 29.15   | 28.95  | 28.91  |
|                    | 16QAM      | 1                | 0            | 22.17                   | 21.93  | 22.17  | 21.90  | 22.13  | 22.02  | 25.05   | 25.04  | 25.11  |
|                    |            | 1                | 1            | 28.19                   | 28.01  | 27.99  | 28.20  | 27.72  | 27.77  | 31.21   | 30.88  | 30.89  |
|                    |            | 1                | 76           | 28.14                   | 28.11  | 28.14  | 27.94  | 28.00  | 27.79  | 31.05   | 31.07  | 30.98  |
|                    |            | 1                | 77           | 22.09                   | 21.80  | 21.85  | 21.80  | 21.72  | 21.98  | 24.96   | 24.77  | 24.93  |
|                    |            | 36               | 18           | 24.97                   | 25.12  | 24.78  | 24.89  | 25.20  | 25.19  | 27.94   | 28.17  | 28.00  |
|                    |            | 75               | 0            | 24.74                   | 24.89  | 24.72  | 24.74  | 25.03  | 25.01  | 27.75   | 27.97  | 27.88  |
|                    | 64QAM      | 1                | 0            | 21.90                   | 21.99  | 22.21  | 21.81  | 21.90  | 21.80  | 24.87   | 24.96  | 25.02  |
|                    |            | 1                | 1            | 26.16                   | 25.83  | 25.84  | 26.05  | 25.92  | 25.80  | 29.12   | 28.89  | 28.83  |
|                    |            | 1                | 76           | 25.85                   | 25.96  | 25.79  | 26.13  | 25.87  | 25.75  | 29.00   | 28.93  | 28.78  |
|                    |            | 1                | 77           | 22.09                   | 21.96  | 22.20  | 21.94  | 22.09  | 22.20  | 25.03   | 25.04  | 25.21  |
|                    |            | 36               | 18           | 24.25                   | 24.36  | 24.64  | 24.38  | 24.66  | 24.43  | 27.33   | 27.52  | 27.55  |
|                    |            | 75               | 0            | 24.64                   | 24.70  | 24.56  | 24.29  | 24.32  | 24.68  | 27.48   | 27.52  | 27.63  |
|                    | 256QAM     | 1                | 0            | 22.04                   | 22.16  | 22.10  | 21.83  | 22.09  | 22.00  | 24.95   | 25.14  | 25.06  |
|                    |            | 1                | 1            | 22.83                   | 22.98  | 23.20  | 22.81  | 22.75  | 23.20  | 25.83   | 25.88  | 26.21  |
|                    |            | 1                | 76           | 22.93                   | 22.82  | 22.86  | 23.13  | 23.05  | 22.99  | 26.04   | 25.95  | 25.94  |
|                    |            | 1                | 77           | 22.01                   | 22.11  | 22.16  | 22.06  | 21.84  | 22.12  | 25.05   | 24.99  | 25.15  |
|                    |            | 36               | 18           | 21.75                   | 21.84  | 21.75  | 21.93  | 21.80  | 22.10  | 24.85   | 24.83  | 24.94  |
|                    |            | 75               | 0            | 21.97                   | 21.88  | 21.94  | 21.73  | 22.10  | 21.84  | 24.86   | 25.00  | 24.90  |

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

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |              |              |              |              |              |              |        |              |
|--------------------|------------|------------------|--------------|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------|--------------|
|                    |            |                  |              | ANT 7                   |              |              | ANT 8        |              |              | ANT 7+8      |        |              |
|                    |            |                  |              | 648000                  | 656000       | 664000       | 648000       | 656000       | 664000       | 648000       | 656000 | 664000       |
| 40.0               | BPSK       | 1                | 0            | 22.46                   | 22.56        | 22.34        | 22.63        | 22.68        | 22.31        | 25.56        | 25.63  | 25.34        |
|                    |            | 1                | 1            | 27.94                   | <b>28.08</b> | 27.83        | 27.72        | 27.91        | 28.05        | 30.84        | 31.01  | 30.95        |
|                    |            | 1                | 104          | 27.75                   | 27.76        | 27.90        | 28.09        | 27.82        | <b>28.10</b> | 30.93        | 30.80  | <b>31.01</b> |
|                    |            | 1                | 105          | 22.69                   | 22.44        | 22.38        | 22.59        | 22.68        | 22.31        | 25.65        | 25.57  | 25.36        |
|                    |            | 50               | 25           | 26.70                   | 26.35        | 26.71        | 26.54        | 26.28        | 26.53        | 29.63        | 29.33  | 29.63        |
|                    |            | 100              | 0            | 26.32                   | 26.34        | 26.36        | 26.61        | 26.45        | 26.61        | 29.48        | 29.41  | 29.50        |
|                    | QPSK       | 1                | 0            | 22.09                   | 21.96        | 21.95        | 22.14        | 22.04        | 21.93        | 25.13        | 25.01  | 24.95        |
|                    |            | 1                | 1            | 28.00                   | 28.05        | <b>28.20</b> | 28.14        | 27.71        | 27.87        | 31.08        | 30.89  | 31.05        |
|                    |            | 1                | 104          | 27.95                   | 28.12        | 28.08        | <b>28.21</b> | 28.04        | 28.02        | <b>31.09</b> | 31.09  | 31.06        |
|                    |            | 1                | 105          | 22.83                   | 22.11        | 21.73        | 22.05        | 22.20        | 21.93        | 24.90        | 25.17  | 24.84        |
|                    |            | 50               | 25           | 26.00                   | 26.15        | 25.83        | 26.21        | 26.16        | 25.90        | 29.12        | 29.17  | 28.88        |
|                    |            | 100              | 0            | 25.89                   | 25.85        | 25.97        | 25.95        | 26.03        | 26.20        | 28.93        | 28.95  | 29.10        |
|                    | 16QAM      | 1                | 0            | 22.15                   | 21.99        | 21.89        | 21.84        | 21.89        | 22.09        | 25.01        | 24.95  | 25.00        |
|                    |            | 1                | 1            | 27.76                   | 27.77        | <b>28.05</b> | 28.11        | 28.15        | 28.09        | 30.95        | 30.97  | <b>31.08</b> |
|                    |            | 1                | 104          | 27.83                   | 27.72        | 27.91        | 28.12        | <b>28.16</b> | 27.75        | 30.99        | 30.96  | 30.84        |
|                    |            | 1                | 105          | 22.18                   | 22.10        | 22.04        | 22.05        | 21.76        | 22.02        | 25.13        | 24.94  | 25.04        |
|                    |            | 50               | 25           | 24.87                   | 25.07        | 25.19        | 24.95        | 25.18        | 25.05        | 27.92        | 28.14  | 28.13        |
|                    |            | 100              | 0            | 24.72                   | 24.79        | 24.74        | 24.81        | 25.01        | 24.74        | 27.78        | 27.91  | 27.75        |
|                    | 64QAM      | 1                | 0            | 22.08                   | 22.01        | 21.74        | 21.72        | 21.86        | 22.08        | 24.91        | 24.95  | 24.92        |
|                    |            | 1                | 1            | 25.74                   | 26.16        | <b>26.20</b> | 25.87        | 25.75        | 25.79        | 28.82        | 28.97  | 29.01        |
|                    |            | 1                | 104          | 25.96                   | 25.93        | 26.04        | 25.74        | 26.07        | <b>26.17</b> | 28.86        | 29.01  | <b>29.12</b> |
|                    |            | 1                | 105          | 21.78                   | 21.74        | 21.77        | 21.90        | 21.87        | 21.98        | 24.85        | 24.82  | 24.89        |
|                    |            | 50               | 25           | 24.28                   | 24.39        | 24.31        | 24.21        | 24.64        | 24.65        | 27.26        | 27.53  | 27.49        |
|                    |            | 100              | 0            | 24.49                   | 24.61        | 24.58        | 24.58        | 24.32        | 24.45        | 27.55        | 27.48  | 27.53        |
|                    | 256QAM     | 1                | 0            | 22.21                   | 22.08        | 22.00        | 22.03        | 22.07        | 21.93        | 25.13        | 25.09  | 24.98        |
|                    |            | 1                | 1            | 22.78                   | 22.87        | 22.88        | 23.10        | 22.79        | 22.77        | 25.95        | 25.84  | 25.84        |
|                    |            | 1                | 104          | <b>23.10</b>            | 22.75        | 22.79        | <b>23.15</b> | 22.71        | 22.91        | <b>26.14</b> | 25.74  | 25.86        |
|                    |            | 1                | 105          | 22.09                   | 21.93        | 22.11        | 21.89        | 22.14        | 21.88        | 25.00        | 25.05  | 25.01        |
|                    |            | 50               | 25           | 21.87                   | 21.85        | 21.98        | 21.94        | 21.95        | 21.85        | 24.92        | 24.91  | 24.93        |
|                    |            | 100              | 0            | 22.00                   | 21.80        | 21.85        | 21.91        | 21.78        | 21.77        | 24.97        | 24.80  | 24.82        |

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

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |              |              |              |              |              |              |              |        |
|--------------------|------------|------------------|--------------|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------|
|                    |            |                  |              | ANT 7                   |              |              | ANT 8        |              |              | ANT 7+8      |              |        |
|                    |            |                  |              | 648333                  | 656000       | 663666       | 648333       | 656000       | 663666       | 648333       | 656000       | 663666 |
| 50.0               | BPSK       | 1                | 0            | 22.65                   | 22.48        | 22.64        | 22.62        | 22.52        | 22.35        | 25.65        | 25.51        | 25.51  |
|                    |            | 1                | 1            | 27.77                   | 27.74        | 27.72        | <b>28.19</b> | 28.11        | 27.88        | <b>31.00</b> | 30.94        | 30.81  |
|                    |            | 1                | 131          | <b>27.87</b>            | <b>27.87</b> | 27.72        | 27.93        | 27.97        | 27.74        | 30.91        | 30.93        | 30.74  |
|                    |            | 1                | 132          | 22.28                   | 22.38        | 22.36        | 22.30        | 22.63        | 22.33        | 25.30        | 25.52        | 25.36  |
|                    |            | 64               | 32           | 26.52                   | 26.68        | 26.34        | 26.50        | 26.28        | 26.49        | 29.52        | 29.49        | 29.43  |
|                    |            | 128              | 0            | 26.42                   | 26.36        | 26.31        | 26.37        | 26.23        | 26.48        | 29.41        | 29.31        | 29.41  |
|                    | QPSK       | 1                | 0            | 21.83                   | 21.82        | 22.01        | 21.72        | 21.78        | 21.75        | 24.79        | 24.81        | 24.89  |
|                    |            | 1                | 1            | <b>28.14</b>            | 27.85        | 27.77        | 28.17        | 27.98        | <b>28.20</b> | <b>31.17</b> | 30.93        | 31.00  |
|                    |            | 1                | 131          | 27.79                   | 28.04        | 28.10        | 28.16        | 27.92        | 28.14        | 30.99        | 30.99        | 31.13  |
|                    |            | 1                | 132          | 21.83                   | 22.08        | 21.90        | 21.74        | 21.99        | 21.89        | 24.80        | 25.05        | 24.91  |
|                    |            | 64               | 32           | 25.86                   | 25.87        | 26.07        | 25.88        | 25.96        | 25.72        | 28.88        | 28.93        | 28.91  |
|                    |            | 128              | 0            | 26.17                   | 25.75        | 25.77        | 26.01        | 25.79        | 26.19        | 29.10        | 28.78        | 29.00  |
|                    | 16QAM      | 1                | 0            | 21.71                   | 22.14        | 21.92        | 22.02        | 21.82        | 22.13        | 24.88        | 24.99        | 25.04  |
|                    |            | 1                | 1            | <b>28.15</b>            | 27.79        | 27.95        | 28.01        | <b>28.20</b> | 27.86        | <b>31.09</b> | 31.01        | 30.92  |
|                    |            | 1                | 131          | 28.04                   | 28.09        | 28.03        | 28.05        | 27.95        | 28.10        | 31.06        | 31.03        | 31.08  |
|                    |            | 1                | 132          | 21.75                   | 21.99        | 21.83        | 21.93        | 21.95        | 22.07        | 24.85        | 24.98        | 24.96  |
|                    |            | 64               | 32           | 24.97                   | 25.04        | 24.77        | 24.85        | 25.12        | 24.72        | 27.92        | 28.09        | 27.76  |
|                    |            | 128              | 0            | 24.96                   | 24.92        | 24.77        | 25.10        | 24.79        | 24.80        | 28.04        | 27.87        | 27.80  |
|                    | 64QAM      | 1                | 0            | 22.01                   | 22.20        | 21.83        | 21.98        | 21.92        | 22.19        | 25.01        | 25.07        | 25.02  |
|                    |            | 1                | 1            | 25.98                   | 26.16        | 25.73        | 26.19        | 26.02        | <b>26.20</b> | 29.10        | <b>29.10</b> | 28.98  |
|                    |            | 1                | 131          | 26.16                   | 25.97        | <b>26.19</b> | 25.99        | 25.79        | 25.82        | 29.09        | 28.89        | 29.02  |
|                    |            | 1                | 132          | 21.76                   | 22.04        | 22.08        | 21.74        | 21.89        | 21.82        | 24.76        | 24.98        | 24.96  |
|                    |            | 64               | 32           | 24.60                   | 24.60        | 24.38        | 24.29        | 24.27        | 24.61        | 27.46        | 27.45        | 27.51  |
|                    |            | 128              | 0            | 24.36                   | 24.48        | 24.49        | 24.33        | 24.39        | 24.70        | 27.36        | 27.45        | 27.61  |
|                    | 256QAM     | 1                | 0            | 21.77                   | 22.11        | 21.94        | 21.95        | 21.80        | 21.81        | 24.87        | 24.97        | 24.89  |
|                    |            | 1                | 1            | 22.75                   | 22.86        | 22.88        | 22.77        | <b>23.07</b> | 22.97        | 25.77        | 25.98        | 25.94  |
|                    |            | 1                | 131          | <b>23.03</b>            | 22.72        | 22.92        | 22.95        | 22.85        | 22.99        | <b>26.00</b> | 25.80        | 25.97  |
|                    |            | 1                | 132          | 21.77                   | 22.13        | 22.05        | 22.21        | 21.74        | 21.92        | 25.01        | 24.95        | 25.00  |
|                    |            | 64               | 32           | 21.84                   | 21.89        | 21.84        | 21.98        | 21.87        | 21.88        | 24.92        | 24.89        | 24.87  |
|                    |            | 128              | 0            | 21.95                   | 22.17        | 22.11        | 21.86        | 21.84        | 21.91        | 24.92        | 25.02        | 25.02  |

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

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |              |              |              |              |              |         |              |              |
|--------------------|------------|------------------|--------------|-------------------------|--------------|--------------|--------------|--------------|--------------|---------|--------------|--------------|
|                    |            |                  |              | ANT 7                   |              |              | ANT 8        |              |              | ANT 7+8 |              |              |
|                    |            |                  |              | 648666                  | 656000       | 663333       | 648666       | 656000       | 663333       | 648666  | 656000       | 663333       |
| 60.0               | BPSK       | 1                | 0            | 22.32                   | 22.58        | 22.47        | 22.39        | 22.50        | 22.43        | 25.37   | 25.55        | 25.46        |
|                    |            | 1                | 1            | 27.90                   | 28.13        | <b>28.16</b> | 28.01        | 27.80        | 28.01        | 30.97   | 30.98        | <b>31.10</b> |
|                    |            | 1                | 160          | 28.01                   | 27.83        | 27.86        | 28.06        | 28.02        | <b>28.14</b> | 31.05   | 30.94        | 31.01        |
|                    |            | 1                | 161          | 22.41                   | 22.49        | 22.32        | 22.59        | 22.30        | 22.70        | 25.51   | 25.41        | 25.52        |
|                    |            | 81               | 40           | 26.55                   | 26.58        | 26.46        | 26.53        | 26.68        | 26.69        | 29.55   | 29.64        | 29.59        |
|                    |            | 162              | 0            | 26.61                   | 26.40        | 26.33        | 26.55        | 26.32        | 26.66        | 29.59   | 29.37        | 29.51        |
|                    |            | 1                | 0            | 22.10                   | 21.92        | 21.78        | 21.81        | 22.17        | 21.90        | 24.97   | 25.06        | 24.85        |
|                    |            | 1                | 1            | 27.95                   | 27.98        | 28.01        | 27.89        | <b>28.17</b> | 27.88        | 30.93   | <b>31.09</b> | 30.96        |
|                    | QPSK       | 1                | 160          | <b>28.04</b>            | 27.80        | 27.90        | 27.88        | 28.03        | 27.98        | 30.97   | 30.93        | 30.95        |
|                    |            | 1                | 161          | 21.90                   | 21.81        | 21.72        | 21.84        | 21.77        | 21.73        | 24.88   | 24.80        | 24.74        |
|                    |            | 81               | 40           | 26.20                   | 26.04        | 26.14        | 25.81        | 25.99        | 25.73        | 29.02   | 29.03        | 28.95        |
|                    |            | 162              | 0            | 25.89                   | 26.21        | 26.17        | 26.02        | 26.04        | 26.00        | 28.97   | 29.14        | 29.10        |
|                    |            | 1                | 0            | 21.80                   | 21.81        | 21.92        | 21.95        | 21.83        | 21.90        | 24.89   | 24.83        | 24.92        |
|                    |            | 1                | 1            | 27.88                   | 27.74        | <b>28.08</b> | 27.89        | 27.89        | 27.86        | 30.90   | 30.83        | 30.98        |
|                    |            | 1                | 160          | 27.94                   | 27.80        | 27.98        | 27.92        | 27.93        | <b>28.08</b> | 30.94   | 30.88        | <b>31.04</b> |
|                    |            | 1                | 161          | 21.77                   | 21.98        | 22.19        | 22.10        | 21.92        | 22.05        | 24.95   | 24.96        | 25.13        |
|                    | 16QAM      | 81               | 40           | 25.16                   | 24.80        | 25.20        | 24.97        | 24.91        | 25.08        | 28.08   | 27.87        | 28.15        |
|                    |            | 162              | 0            | 24.90                   | 25.08        | 25.03        | 25.07        | 25.11        | 25.09        | 28.00   | 28.11        | 28.07        |
|                    |            | 1                | 0            | 21.79                   | 21.95        | 22.08        | 22.03        | 21.80        | 22.00        | 24.92   | 24.89        | 25.05        |
|                    |            | 1                | 1            | 26.02                   | <b>26.11</b> | 25.87        | 25.85        | 25.97        | 26.13        | 28.95   | <b>29.05</b> | 29.01        |
|                    |            | 1                | 160          | 25.84                   | 25.94        | 25.74        | 25.91        | 25.96        | <b>26.21</b> | 28.89   | 28.96        | 28.99        |
|                    |            | 1                | 161          | 21.72                   | 21.97        | 22.21        | 21.76        | 22.09        | 21.72        | 24.75   | 25.04        | 24.98        |
|                    |            | 81               | 40           | 24.58                   | 24.59        | 24.44        | 24.71        | 24.31        | 24.45        | 27.66   | 27.46        | 27.46        |
|                    |            | 162              | 0            | 24.58                   | 24.63        | 24.24        | 24.35        | 24.44        | 24.41        | 27.48   | 27.55        | 27.34        |
|                    | 64QAM      | 1                | 0            | 22.05                   | 22.21        | 22.16        | 21.78        | 22.08        | 21.94        | 24.93   | 25.16        | 25.06        |
|                    |            | 1                | 1            | 22.82                   | <b>23.18</b> | 22.98        | <b>23.10</b> | 22.79        | 23.07        | 25.97   | 26.00        | 26.04        |
|                    |            | 1                | 160          | 22.94                   | 23.17        | 22.78        | 22.98        | 22.89        | 23.03        | 25.97   | <b>26.04</b> | 25.92        |
|                    |            | 1                | 161          | 21.97                   | 21.74        | 21.88        | 22.01        | 22.15        | 21.88        | 25.00   | 24.96        | 24.89        |
|                    |            | 81               | 40           | 22.18                   | 21.94        | 21.86        | 21.73        | 22.07        | 22.00        | 24.97   | 25.02        | 24.94        |
|                    |            | 162              | 0            | 22.02                   | 22.05        | 22.12        | 22.09        | 22.20        | 21.82        | 25.07   | 25.14        | 24.98        |

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

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |              |              |              |              |              |         |              |              |
|--------------------|------------|------------------|--------------|-------------------------|--------------|--------------|--------------|--------------|--------------|---------|--------------|--------------|
|                    |            |                  |              | ANT 7                   |              |              | ANT 8        |              |              | ANT 7+8 |              |              |
|                    |            |                  |              | 649000                  | 656000       | 663000       | 649000       | 656000       | 663000       | 649000  | 656000       | 663000       |
| 70.0               | BPSK       | 1                | 0            | 22.30                   | 22.55        | 22.26        | 22.26        | 22.45        | 22.57        | 25.29   | 25.51        | 25.43        |
|                    |            | 1                | 1            | 27.78                   | 28.05        | 28.03        | 28.03        | <b>28.25</b> | 27.84        | 30.92   | 31.16        | 30.95        |
|                    |            | 1                | 187          | 28.06                   | <b>28.20</b> | 28.10        | 28.19        | 28.12        | 28.15        | 31.14   | <b>31.17</b> | 31.14        |
|                    |            | 1                | 188          | 22.34                   | 22.69        | 22.70        | 22.59        | 22.30        | 22.71        | 25.48   | 25.51        | 25.71        |
|                    |            | 90               | 45           | 26.32                   | 26.43        | 26.70        | 26.81        | 26.67        | 26.44        | 29.58   | 29.56        | 29.58        |
|                    |            | 180              | 0            | 26.58                   | 26.39        | 26.56        | 26.49        | 26.48        | 26.27        | 29.55   | 29.45        | 29.43        |
|                    |            | 1                | 0            | 22.02                   | 21.98        | 21.73        | 22.16        | 22.18        | 22.21        | 25.10   | 25.09        | 24.99        |
|                    |            | 1                | 1            | 27.78                   | 27.72        | 28.04        | 27.89        | 27.82        | 27.82        | 30.85   | 30.78        | 30.94        |
|                    | QPSK       | 1                | 187          | 27.85                   | <b>28.17</b> | 27.98        | <b>28.01</b> | 27.74        | 27.73        | 30.94   | <b>30.97</b> | 30.87        |
|                    |            | 1                | 188          | 22.12                   | 21.82        | 21.73        | 21.86        | 21.79        | 22.15        | 25.00   | 24.82        | 24.96        |
|                    |            | 90               | 45           | 25.90                   | 25.73        | 25.82        | 26.08        | 26.15        | 25.91        | 29.00   | 28.96        | 28.88        |
|                    |            | 180              | 0            | 25.76                   | 25.83        | 25.73        | 25.99        | 26.05        | 26.00        | 28.89   | 28.95        | 28.88        |
|                    |            | 1                | 0            | 21.85                   | 22.07        | 22.07        | 21.96        | 21.96        | 21.87        | 24.92   | 25.03        | 24.98        |
|                    |            | 1                | 1            | 27.81                   | 28.02        | 27.99        | 28.00        | 28.00        | <b>28.06</b> | 30.92   | 31.02        | <b>31.04</b> |
|                    |            | 1                | 187          | 27.77                   | 28.05        | <b>28.09</b> | 27.88        | 27.85        | 27.95        | 30.84   | 30.96        | 31.03        |
|                    |            | 1                | 188          | 22.20                   | 22.15        | 22.04        | 21.92        | 21.76        | 22.11        | 25.07   | 24.97        | 25.09        |
|                    | 16QAM      | 90               | 45           | 24.96                   | 24.99        | 25.03        | 24.72        | 25.08        | 25.14        | 27.85   | 28.05        | 28.10        |
|                    |            | 180              | 0            | 24.77                   | 24.74        | 25.15        | 24.91        | 24.78        | 25.14        | 27.85   | 27.77        | 28.16        |
|                    |            | 1                | 0            | 22.16                   | 21.73        | 22.14        | 22.21        | 22.04        | 22.05        | 25.20   | 24.90        | 25.11        |
|                    |            | 1                | 1            | 26.20                   | 25.90        | 25.96        | 25.94        | 25.75        | 26.10        | 29.08   | 28.84        | 29.04        |
|                    |            | 1                | 187          | 25.99                   | 25.94        | <b>26.20</b> | <b>26.20</b> | 26.07        | 26.09        | 29.11   | 29.02        | <b>29.16</b> |
|                    |            | 1                | 188          | 22.12                   | 21.94        | 22.18        | 22.07        | 22.04        | 22.06        | 25.11   | 25.00        | 25.13        |
|                    |            | 90               | 45           | 24.35                   | 24.60        | 24.55        | 24.26        | 24.34        | 24.45        | 27.32   | 27.48        | 27.51        |
|                    |            | 180              | 0            | 24.62                   | 24.47        | 24.39        | 24.69        | 24.57        | 24.24        | 27.67   | 27.53        | 27.33        |
|                    | 256QAM     | 1                | 0            | 22.12                   | 22.13        | 21.97        | 22.20        | 22.18        | 22.12        | 25.17   | 25.17        | 25.06        |
|                    |            | 1                | 1            | 23.32                   | <b>23.33</b> | 23.16        | 22.97        | 23.05        | 23.07        | 26.16   | <b>26.20</b> | 26.13        |
|                    |            | 1                | 187          | 23.05                   | 23.26        | 22.98        | <b>23.33</b> | 23.02        | 23.10        | 26.20   | 26.15        | 26.05        |
|                    |            | 1                | 188          | 22.34                   | 22.08        | 22.18        | 21.93        | 22.22        | 22.10        | 25.15   | 25.16        | 25.15        |
|                    |            | 90               | 45           | 21.97                   | 21.97        | 22.08        | 21.95        | 22.35        | 22.08        | 24.97   | 25.17        | 25.09        |
|                    |            | 180              | 0            | 22.34                   | 22.08        | 22.05        | 21.97        | 22.15        | 21.99        | 25.17   | 25.13        | 25.03        |

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

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |        |        |        |        |        |         |        |        |
|--------------------|------------|------------------|--------------|-------------------------|--------|--------|--------|--------|--------|---------|--------|--------|
|                    |            |                  |              | ANT 7                   |        |        | ANT 8  |        |        | ANT 7+8 |        |        |
|                    |            |                  |              | 649333                  | 656000 | 662666 | 649333 | 656000 | 662666 | 649333  | 656000 | 662666 |
| 80.0               | BPSK       | 1                | 0            | 22.30                   | 22.26  | 22.46  | 22.36  | 22.28  | 22.33  | 25.34   | 25.28  | 25.41  |
|                    |            | 1                | 1            | 28.20                   | 28.10  | 28.20  | 28.09  | 28.05  | 27.99  | 31.16   | 31.09  | 31.11  |
|                    |            | 1                | 215          | 28.40                   | 28.19  | 28.13  | 27.92  | 28.12  | 28.19  | 31.18   | 31.17  | 31.17  |
|                    |            | 1                | 216          | 22.23                   | 22.60  | 22.41  | 22.66  | 22.62  | 22.48  | 25.46   | 25.62  | 25.46  |
|                    |            | 108              | 54           | 26.35                   | 26.37  | 26.66  | 26.64  | 26.66  | 26.57  | 29.51   | 29.53  | 29.63  |
|                    |            | 216              | 0            | 26.52                   | 26.70  | 26.66  | 26.70  | 26.30  | 26.65  | 29.62   | 29.51  | 29.67  |
|                    |            | 1                | 0            | 22.00                   | 21.77  | 21.87  | 21.90  | 21.99  | 22.18  | 24.96   | 24.89  | 25.04  |
|                    |            | 1                | 1            | 28.21                   | 27.90  | 27.93  | 28.16  | 28.01  | 27.80  | 31.20   | 30.97  | 30.88  |
|                    | QPSK       | 1                | 215          | 28.01                   | 27.90  | 27.92  | 27.97  | 27.85  | 28.06  | 31.00   | 30.89  | 31.00  |
|                    |            | 1                | 216          | 21.99                   | 21.95  | 22.11  | 21.98  | 21.90  | 22.20  | 25.00   | 24.94  | 25.17  |
|                    |            | 108              | 54           | 25.96                   | 25.73  | 25.80  | 26.28  | 26.13  | 25.96  | 29.13   | 28.94  | 28.89  |
|                    |            | 216              | 0            | 26.07                   | 25.88  | 25.81  | 25.77  | 26.16  | 25.77  | 28.93   | 29.03  | 28.80  |
|                    |            | 1                | 0            | 21.98                   | 21.85  | 22.17  | 22.15  | 21.84  | 22.16  | 25.08   | 24.86  | 25.18  |
|                    |            | 1                | 1            | 27.93                   | 28.08  | 28.09  | 28.10  | 28.15  | 28.10  | 31.03   | 31.13  | 31.11  |
|                    |            | 1                | 215          | 27.81                   | 28.19  | 27.80  | 27.79  | 27.98  | 27.99  | 30.81   | 31.10  | 30.91  |
|                    |            | 1                | 216          | 21.97                   | 21.80  | 21.72  | 22.18  | 22.00  | 21.83  | 25.09   | 24.91  | 24.79  |
|                    | 16QAM      | 108              | 54           | 25.16                   | 24.98  | 25.07  | 25.63  | 24.84  | 25.19  | 28.41   | 27.92  | 28.14  |
|                    |            | 216              | 0            | 24.94                   | 24.82  | 24.78  | 25.15  | 25.07  | 25.05  | 28.06   | 27.96  | 27.93  |
|                    |            | 1                | 0            | 22.21                   | 21.92  | 22.17  | 22.08  | 22.09  | 21.81  | 25.16   | 25.02  | 25.00  |
|                    |            | 1                | 1            | 25.83                   | 25.77  | 25.95  | 26.13  | 25.80  | 26.04  | 28.99   | 28.80  | 29.01  |
|                    |            | 1                | 215          | 25.76                   | 25.96  | 26.12  | 25.90  | 25.77  | 25.74  | 28.84   | 28.88  | 28.94  |
|                    |            | 1                | 216          | 21.96                   | 21.94  | 21.93  | 21.71  | 22.13  | 22.04  | 24.85   | 25.05  | 25.00  |
|                    |            | 108              | 54           | 24.22                   | 24.34  | 24.55  | 24.70  | 24.65  | 24.54  | 27.48   | 27.51  | 27.56  |
|                    |            | 216              | 0            | 24.22                   | 24.52  | 24.43  | 24.42  | 24.65  | 24.71  | 27.33   | 27.60  | 27.58  |
|                    | 64QAM      | 1                | 0            | 21.95                   | 21.80  | 22.11  | 22.12  | 22.05  | 21.79  | 25.05   | 24.94  | 24.96  |
|                    |            | 1                | 1            | 22.83                   | 22.91  | 22.74  | 23.04  | 23.03  | 22.90  | 25.95   | 25.98  | 25.83  |
|                    |            | 1                | 215          | 22.80                   | 22.91  | 23.05  | 23.05  | 22.82  | 23.17  | 25.94   | 25.88  | 26.12  |
|                    |            | 1                | 216          | 22.18                   | 22.19  | 21.76  | 22.14  | 22.12  | 22.10  | 25.17   | 25.17  | 24.94  |
|                    |            | 108              | 54           | 21.93                   | 21.86  | 21.73  | 21.72  | 21.71  | 22.14  | 24.84   | 24.80  | 24.95  |
|                    |            | 216              | 0            | 22.02                   | 22.11  | 21.98  | 21.72  | 21.85  | 21.90  | 24.88   | 24.99  | 24.95  |

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

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |        |        |        |        |        |         |        |        |
|--------------------|------------|------------------|--------------|-------------------------|--------|--------|--------|--------|--------|---------|--------|--------|
|                    |            |                  |              | ANT 7                   |        |        | ANT 8  |        |        | ANT 7+8 |        |        |
|                    |            |                  |              | 649666                  | 656000 | 662333 | 649666 | 656000 | 662333 | 649666  | 656000 | 662333 |
| 90.0               | BPSK       | 1                | 0            | 22.62                   | 22.26  | 22.67  | 22.34  | 22.47  | 22.59  | 25.49   | 25.38  | 25.64  |
|                    |            | 1                | 1            | 28.12                   | 28.09  | 27.81  | 28.05  | 28.07  | 27.80  | 31.10   | 31.09  | 30.82  |
|                    |            | 1                | 243          | 28.23                   | 28.01  | 27.97  | 28.14  | 27.96  | 28.17  | 31.20   | 31.00  | 31.08  |
|                    |            | 1                | 244          | 22.61                   | 22.57  | 22.30  | 22.27  | 22.52  | 22.70  | 25.45   | 25.56  | 25.51  |
|                    |            | 120              | 60           | 26.45                   | 27.06  | 26.56  | 26.42  | 26.83  | 26.58  | 29.45   | 29.96  | 29.58  |
|                    |            | 243              | 0            | 26.28                   | 26.68  | 26.33  | 26.22  | 26.42  | 26.42  | 29.26   | 29.47  | 29.39  |
|                    |            | 1                | 0            | 22.17                   | 21.91  | 21.83  | 21.85  | 21.84  | 22.04  | 25.02   | 24.89  | 24.95  |
|                    |            | 1                | 1            | 28.18                   | 28.17  | 28.16  | 27.91  | 27.96  | 28.11  | 31.06   | 31.08  | 31.15  |
|                    | QPSK       | 1                | 243          | 28.12                   | 28.08  | 27.99  | 28.04  | 27.93  | 28.14  | 31.09   | 31.02  | 31.08  |
|                    |            | 1                | 244          | 21.76                   | 21.90  | 21.85  | 21.99  | 21.98  | 22.11  | 24.89   | 24.95  | 24.99  |
|                    |            | 120              | 60           | 25.97                   | 25.81  | 25.99  | 26.31  | 25.91  | 25.72  | 29.15   | 28.87  | 28.87  |
|                    |            | 243              | 0            | 25.90                   | 26.12  | 26.03  | 25.94  | 25.83  | 26.08  | 28.93   | 28.99  | 29.07  |
|                    |            | 1                | 0            | 21.96                   | 21.81  | 21.72  | 22.08  | 21.89  | 22.17  | 25.03   | 24.86  | 24.96  |
|                    |            | 1                | 1            | 28.02                   | 28.14  | 28.09  | 27.79  | 28.15  | 27.96  | 30.92   | 31.16  | 31.04  |
|                    |            | 1                | 243          | 27.98                   | 28.01  | 28.10  | 28.13  | 27.72  | 27.82  | 31.07   | 30.88  | 30.97  |
|                    |            | 1                | 244          | 21.85                   | 21.85  | 21.76  | 21.71  | 21.83  | 21.91  | 24.79   | 24.85  | 24.85  |
|                    | 16QAM      | 120              | 60           | 24.98                   | 24.73  | 25.02  | 25.08  | 25.13  | 25.12  | 28.04   | 27.94  | 28.08  |
|                    |            | 243              | 0            | 25.04                   | 25.02  | 25.08  | 24.79  | 24.79  | 24.99  | 27.93   | 27.92  | 28.05  |
|                    |            | 1                | 0            | 22.08                   | 21.77  | 21.84  | 21.89  | 21.82  | 21.92  | 25.00   | 24.81  | 24.89  |
|                    |            | 1                | 1            | 25.05                   | 25.04  | 25.12  | 24.95  | 24.95  | 24.83  | 28.01   | 28.01  | 27.99  |
|                    |            | 1                | 243          | 26.05                   | 26.04  | 26.12  | 25.95  | 25.95  | 25.83  | 29.01   | 29.01  | 28.99  |
|                    |            | 1                | 244          | 25.80                   | 26.16  | 26.07  | 26.13  | 26.05  | 25.72  | 28.98   | 29.12  | 28.91  |
|                    |            | 120              | 60           | 24.59                   | 24.63  | 24.68  | 24.23  | 24.55  | 24.47  | 27.42   | 27.60  | 27.59  |
|                    |            | 243              | 0            | 24.71                   | 24.23  | 24.67  | 24.61  | 24.57  | 24.30  | 27.67   | 27.41  | 27.50  |
|                    | 64QAM      | 1                | 0            | 22.07                   | 22.12  | 22.19  | 22.20  | 22.21  | 22.08  | 25.15   | 25.18  | 25.15  |
|                    |            | 1                | 1            | 22.90                   | 23.07  | 22.84  | 23.20  | 23.10  | 23.02  | 26.06   | 26.10  | 25.94  |
|                    |            | 1                | 243          | 22.74                   | 22.82  | 22.99  | 23.03  | 23.12  | 22.91  | 25.90   | 25.98  | 25.96  |
|                    |            | 1                | 244          | 22.09                   | 22.12  | 22.10  | 22.09  | 21.99  | 22.00  | 25.10   | 25.07  | 25.06  |
|                    |            | 120              | 60           | 21.74                   | 21.75  | 21.86  | 22.17  | 22.03  | 21.80  | 24.97   | 24.90  | 24.84  |
|                    |            | 243              | 0            | 22.17                   | 21.92  | 22.14  | 21.95  | 21.80  | 22.05  | 25.07   | 24.87  | 25.11  |

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

| Bandwidth<br>(MHz) | Modulation | RB<br>Allocation | RB<br>Offset | Conducted Average (dBm) |        |        |        |        |        |         |        |        |
|--------------------|------------|------------------|--------------|-------------------------|--------|--------|--------|--------|--------|---------|--------|--------|
|                    |            |                  |              | ANT 7                   |        |        | ANT 8  |        |        | ANT 7+8 |        |        |
|                    |            |                  |              | 650000                  | 656000 | 662000 | 650000 | 656000 | 662000 | 650000  | 656000 | 662000 |
| 100.0              | BPSK       | 1                | 0            | 22.25                   | 22.59  | 22.63  | 22.39  | 22.24  | 22.49  | 25.33   | 25.43  | 25.57  |
|                    |            | 1                | 1            | 28.18                   | 28.12  | 28.04  | 27.76  | 27.90  | 27.90  | 30.99   | 31.02  | 30.98  |
|                    |            | 1                | 271          | 28.06                   | 27.96  | 28.11  | 28.20  | 28.04  | 27.96  | 31.14   | 31.01  | 31.05  |
|                    |            | 1                | 272          | 22.24                   | 22.34  | 22.46  | 22.52  | 22.49  | 22.22  | 25.39   | 25.43  | 25.35  |
|                    |            | 135              | 67           | 26.64                   | 26.88  | 26.66  | 26.59  | 26.51  | 26.44  | 29.63   | 29.71  | 29.56  |
|                    |            | 270              | 0            | 26.34                   | 26.35  | 26.24  | 26.62  | 26.35  | 26.24  | 29.49   | 29.36  | 29.25  |
|                    | QPSK       | 1                | 0            | 21.72                   | 22.18  | 22.09  | 22.02  | 21.73  | 21.86  | 24.88   | 24.97  | 24.99  |
|                    |            | 1                | 1            | 28.23                   | 27.99  | 27.89  | 28.04  | 28.10  | 28.11  | 31.15   | 31.06  | 31.01  |
|                    |            | 1                | 271          | 28.12                   | 27.99  | 27.96  | 28.14  | 28.16  | 28.15  | 31.14   | 31.09  | 31.07  |
|                    |            | 1                | 272          | 21.84                   | 21.84  | 21.77  | 22.19  | 22.09  | 22.13  | 25.03   | 24.98  | 24.96  |
|                    |            | 135              | 67           | 25.90                   | 25.80  | 25.86  | 26.21  | 26.27  | 25.96  | 29.07   | 29.05  | 28.92  |
|                    |            | 270              | 0            | 25.87                   | 25.83  | 26.06  | 25.95  | 26.01  | 26.05  | 28.92   | 28.93  | 29.07  |
|                    | 16QAM      | 1                | 0            | 21.95                   | 21.94  | 21.82  | 21.99  | 21.72  | 21.92  | 24.98   | 24.84  | 24.88  |
|                    |            | 1                | 1            | 28.16                   | 28.19  | 28.12  | 27.81  | 27.80  | 27.96  | 31.00   | 31.01  | 31.05  |
|                    |            | 1                | 271          | 28.10                   | 28.05  | 27.83  | 27.94  | 27.78  | 27.72  | 31.03   | 30.93  | 30.79  |
|                    |            | 1                | 272          | 21.84                   | 21.93  | 21.96  | 21.81  | 22.15  | 22.09  | 24.84   | 25.05  | 25.04  |
|                    |            | 135              | 67           | 24.94                   | 25.03  | 24.91  | 25.02  | 25.14  | 24.98  | 27.99   | 28.10  | 27.96  |
|                    |            | 270              | 0            | 24.94                   | 24.73  | 25.21  | 25.11  | 25.01  | 24.99  | 28.04   | 27.88  | 28.11  |
|                    | 64QAM      | 1                | 0            | 21.73                   | 21.99  | 21.79  | 22.03  | 21.91  | 22.11  | 24.89   | 24.96  | 24.96  |
|                    |            | 1                | 1            | 25.73                   | 25.80  | 26.04  | 25.98  | 26.02  | 27.19  | 28.87   | 28.92  | 29.66  |
|                    |            | 1                | 271          | 25.71                   | 25.94  | 26.02  | 25.92  | 26.20  | 26.73  | 28.83   | 29.08  | 29.40  |
|                    |            | 1                | 272          | 21.82                   | 22.13  | 21.88  | 22.16  | 21.85  | 21.84  | 25.00   | 25.00  | 24.87  |
|                    |            | 135              | 67           | 24.48                   | 24.42  | 24.63  | 24.27  | 24.50  | 24.65  | 27.39   | 27.47  | 27.65  |
|                    |            | 270              | 0            | 24.59                   | 24.69  | 24.43  | 24.49  | 24.52  | 24.58  | 27.55   | 27.62  | 27.52  |
|                    | 256QAM     | 1                | 0            | 21.92                   | 22.21  | 21.99  | 21.98  | 22.17  | 21.86  | 24.96   | 25.20  | 24.94  |
|                    |            | 1                | 1            | 22.88                   | 22.83  | 23.04  | 22.97  | 22.85  | 22.91  | 25.94   | 25.85  | 25.99  |
|                    |            | 1                | 271          | 23.09                   | 23.17  | 23.05  | 23.08  | 22.94  | 23.11  | 26.10   | 26.07  | 26.09  |
|                    |            | 1                | 272          | 21.79                   | 22.02  | 21.73  | 21.96  | 21.87  | 22.19  | 24.89   | 24.96  | 24.98  |
|                    |            | 135              | 67           | 21.97                   | 21.81  | 21.82  | 21.95  | 21.71  | 22.14  | 24.97   | 24.77  | 24.99  |
|                    |            | 270              | 0            | 21.80                   | 21.79  | 22.05  | 21.93  | 22.16  | 22.15  | 24.88   | 24.99  | 25.11  |

## 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. Worst-case plots (highest bandwidth) are reported only.

**5G NR n41**

| Band            | Mode          | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|-----------------|---------------|-------------------------|--------|--------------|----------------|
| 5G NR n41 (FCC) | 10MHz, BPSK   | 24/0                    | 2593.0 | 8.652        | 9.773          |
|                 | 10MHz, QPSK   |                         |        | 8.670        | 9.801          |
|                 | 10MHz, 16QAM  |                         |        | 8.627        | 9.771          |
|                 | 15MHz, BPSK   | 36/0                    |        | 12.931       | 14.26          |
|                 | 15MHz, QPSK   |                         |        | 12.886       | 14.26          |
|                 | 15MHz, 16QAM  |                         |        | 13.004       | 14.42          |
|                 | 20MHz, BPSK   | 50/0                    |        | 17.928       | 19.46          |
|                 | 20MHz, QPSK   |                         |        | 17.926       | 19.6           |
|                 | 20MHz, 16QAM  |                         |        | 17.991       | 19.43          |
|                 | 30MHz, BPSK   | 75/0                    |        | 27.008       | 29.09          |
|                 | 30MHz, QPSK   |                         |        | 26.951       | 30.32          |
|                 | 30MHz, 16QAM  |                         |        | 26.883       | 28.81          |
|                 | 40MHz, BPSK   | 100/0                   |        | 35.860       | 41.15          |
|                 | 40MHz, QPSK   |                         |        | 35.848       | 38.15          |
|                 | 40MHz, 16QAM  |                         |        | 35.979       | 38.15          |
|                 | 50MHz, BPSK   | 128/0                   |        | 45.817       | 48.19          |
|                 | 50MHz, QPSK   |                         |        | 45.878       | 48.34          |
|                 | 50MHz, 16QAM  |                         |        | 45.913       | 48.17          |
|                 | 60MHz, BPSK   | 162/0                   |        | 58.009       | 60.63          |
|                 | 60MHz, QPSK   |                         |        | 58.275       | 61.02          |
|                 | 60MHz, 16QAM  |                         |        | 57.940       | 61.11          |
|                 | 70MHz, BPSK   | 180/0                   |        | 64.711       | 68.88          |
|                 | 70MHz, QPSK   |                         |        | 64.462       | 67.81          |
|                 | 70MHz, 16QAM  |                         |        | 64.526       | 67.74          |
|                 | 80MHz, BPSK   | 216/0                   |        | 77.408       | 80.79          |
|                 | 80MHz, QPSK   |                         |        | 77.520       | 80.92          |
|                 | 80MHz, 16QAM  |                         |        | 77.270       | 80.96          |
|                 | 90MHz, BPSK   | 243/0                   |        | 86.901       | 90.52          |
|                 | 90MHz, QPSK   |                         |        | 86.827       | 90.77          |
|                 | 90MHz, 16QAM  |                         |        | 86.915       | 90.55          |
|                 | 100MHz, BPSK  | 270/0                   |        | 96.490       | 100.6          |
|                 | 100MHz, QPSK  |                         |        | 96.553       | 100.6          |
|                 | 100MHz, 16QAM |                         |        | 95.535       | 100.7          |
|                 | 100MHz, BPSK  | 1/0                     |        | 0.598        | 1.093          |

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

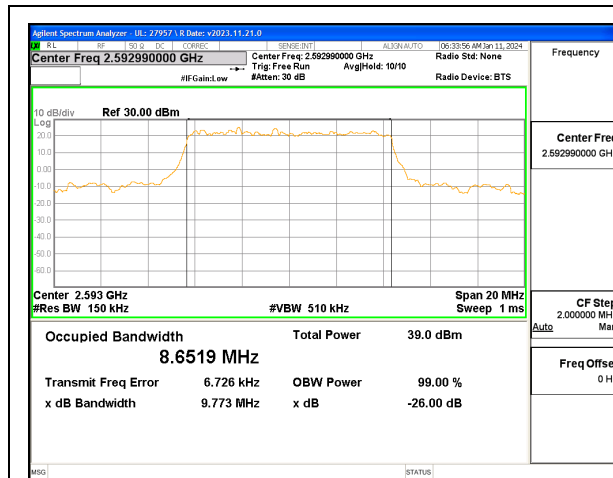
| Band                                           | Mode          | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|------------------------------------------------|---------------|-------------------------|--------|--------------|----------------|
| 5G NR n77<br>(FCC Part 27<br>3450-<br>3550MHz) | 10MHz, BPSK   | 24/0                    | 3500.0 | 8.607        | 9.605          |
|                                                | 10MHz, QPSK   |                         |        | 8.637        | 9.870          |
|                                                | 10MHz, 16QAM  |                         |        | 8.619        | 9.876          |
|                                                | 15MHz, BPSK   | 36/0                    |        | 12.957       | 14.35          |
|                                                | 15MHz, QPSK   |                         |        | 12.916       | 14.21          |
|                                                | 15MHz, 16QAM  |                         |        | 12.909       | 14.21          |
|                                                | 20MHz, BPSK   | 50/0                    |        | 17.874       | 19.35          |
|                                                | 20MHz, QPSK   |                         |        | 17.972       | 19.49          |
|                                                | 20MHz, 16QAM  |                         |        | 17.891       | 19.45          |
|                                                | 30MHz, BPSK   | 75/0                    |        | 26.851       | 28.86          |
|                                                | 30MHz, QPSK   |                         |        | 26.731       | 28.53          |
|                                                | 30MHz, 16QAM  |                         |        | 26.912       | 28.95          |
|                                                | 40MHz, BPSK   | 100/0                   |        | 35.786       | 38.10          |
|                                                | 40MHz, QPSK   |                         |        | 35.935       | 38.01          |
|                                                | 40MHz, 16QAM  |                         |        | 35.770       | 38.21          |
|                                                | 50MHz, BPSK   | 128/0                   |        | 45.852       | 48.46          |
|                                                | 50MHz, QPSK   |                         |        | 45.634       | 48.34          |
|                                                | 50MHz, 16QAM  |                         |        | 45.676       | 48.37          |
|                                                | 60MHz, BPSK   | 162/0                   |        | 58.002       | 60.37          |
|                                                | 60MHz, QPSK   |                         |        | 57.801       | 60.72          |
|                                                | 60MHz, 16QAM  |                         |        | 57.848       | 60.56          |
|                                                | 70MHz, BPSK   | 180/0                   |        | 64.347       | 67.15          |
|                                                | 70MHz, QPSK   |                         |        | 64.301       | 67.53          |
|                                                | 70MHz, 16QAM  |                         |        | 64.397       | 67.83          |
|                                                | 80MHz, BPSK   | 216/0                   |        | 77.048       | 79.99          |
|                                                | 80MHz, QPSK   |                         |        | 77.255       | 80.65          |
|                                                | 80MHz, 16QAM  |                         |        | 77.177       | 80.83          |
|                                                | 90MHz, BPSK   | 243/0                   |        | 86.755       | 90.53          |
|                                                | 90MHz, QPSK   |                         |        | 86.803       | 90.49          |
|                                                | 90MHz, 16QAM  |                         |        | 86.716       | 90.43          |
|                                                | 100MHz, BPSK  | 270/0                   |        | 96.318       | 99.50          |
|                                                | 100MHz, QPSK  |                         |        | 96.466       | 100.3          |
|                                                | 100MHz, 16QAM |                         |        | 96.317       | 100.7          |
|                                                | 100MHz, BPSK  | 1/0                     |        | 0.593        | 0.956          |



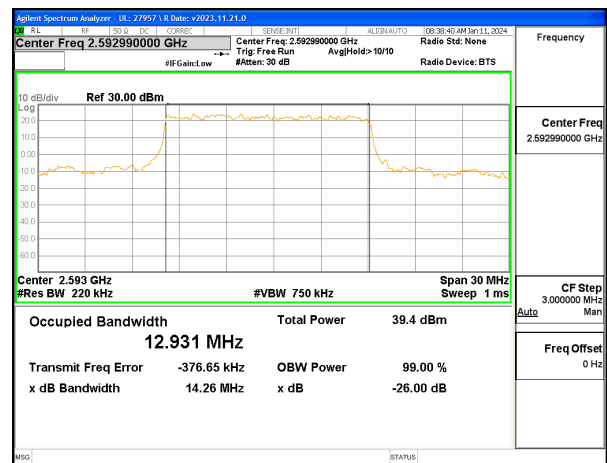
**5G NR n77(FCC Part 27 3700-3980MHz)**

| Band                                           | Mode          | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|------------------------------------------------|---------------|-------------------------|--------|--------------|----------------|
| 5G NR n77<br>(FCC Part 27<br>3700-<br>3980MHz) | 10MHz, BPSK   | 24/0                    |        | 8.608        | 9.600          |
|                                                | 10MHz, QPSK   |                         |        | 8.572        | 9.288          |
|                                                | 10MHz, 16QAM  |                         |        | 8.648        | 9.697          |
|                                                | 15MHz, BPSK   | 36/0                    |        | 13.529       | 15.20          |
|                                                | 15MHz, QPSK   |                         |        | 12.899       | 13.40          |
|                                                | 15MHz, 16QAM  |                         |        | 12.864       | 13.66          |
|                                                | 20MHz, BPSK   | 50/0                    |        | 18.385       | 20.20          |
|                                                | 20MHz, QPSK   |                         |        | 17.821       | 19.11          |
|                                                | 20MHz, 16QAM  |                         |        | 17.897       | 19.04          |
|                                                | 30MHz, BPSK   | 75/0                    |        | 27.133       | 29.19          |
|                                                | 30MHz, QPSK   |                         |        | 26.793       | 28.14          |
|                                                | 30MHz, 16QAM  |                         |        | 26.683       | 28.23          |
|                                                | 40MHz, BPSK   | 100/0                   |        | 35.957       | 38.28          |
|                                                | 40MHz, QPSK   |                         |        | 35.674       | 37.29          |
|                                                | 40MHz, 16QAM  |                         |        | 35.722       | 37.33          |
|                                                | 50MHz, BPSK   | 128/0                   |        | 45.781       | 48.28          |
|                                                | 50MHz, QPSK   |                         |        | 45.686       | 47.66          |
|                                                | 50MHz, 16QAM  |                         |        | 45.555       | 48.17          |
|                                                | 60MHz, BPSK   | 162/0                   |        | 57.807       | 60.44          |
|                                                | 60MHz, QPSK   |                         |        | 57.877       | 60.49          |
|                                                | 60MHz, 16QAM  |                         |        | 57.829       | 60.17          |
|                                                | 70MHz, BPSK   | 180/0                   |        | 64.297       | 67.17          |
|                                                | 70MHz, QPSK   |                         |        | 64.364       | 66.92          |
|                                                | 70MHz, 16QAM  |                         |        | 64.169       | 67.28          |
|                                                | 80MHz, BPSK   | 216/0                   |        | 77.045       | 80.07          |
|                                                | 80MHz, QPSK   |                         |        | 77.031       | 80.25          |
|                                                | 80MHz, 16QAM  |                         |        | 77.263       | 80.36          |
|                                                | 90MHz, BPSK   | 243/0                   |        | 86.772       | 89.89          |
|                                                | 90MHz, QPSK   |                         |        | 86.739       | 90.37          |
|                                                | 90MHz, 16QAM  |                         |        | 86.781       | 90.40          |
|                                                | 100MHz, BPSK  | 270/0                   |        | 96.302       | 100.3          |
|                                                | 100MHz, QPSK  |                         |        | 96.591       | 100.2          |
|                                                | 100MHz, 16QAM |                         |        | 96.338       | 100.3          |
|                                                | 100MHz, BPSK  | 1/0                     |        | 0.598        | 1.128          |

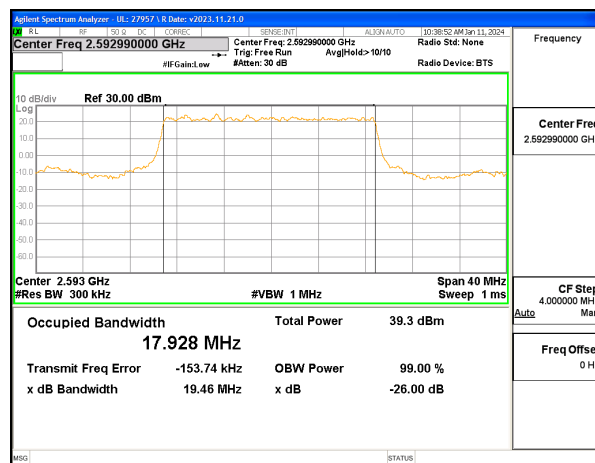
## 9.1.1. 5G NR n41



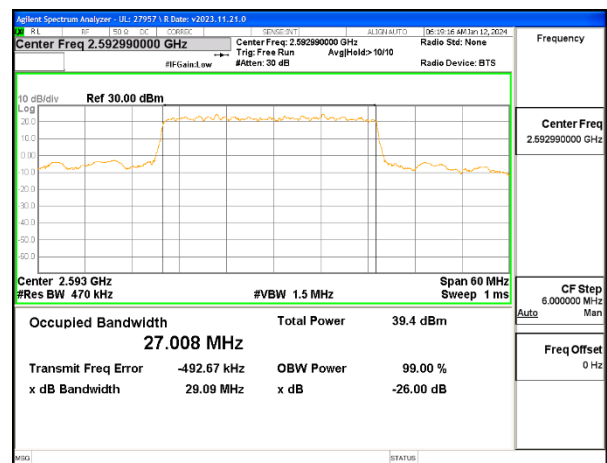
5G NR n41 10MHz BPSK Middle Channel RB24-0



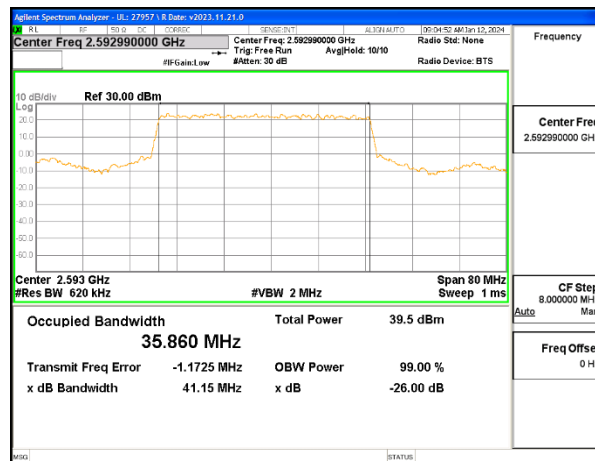
5G NR n41 15MHz BPSK Middle Channel RB36-0



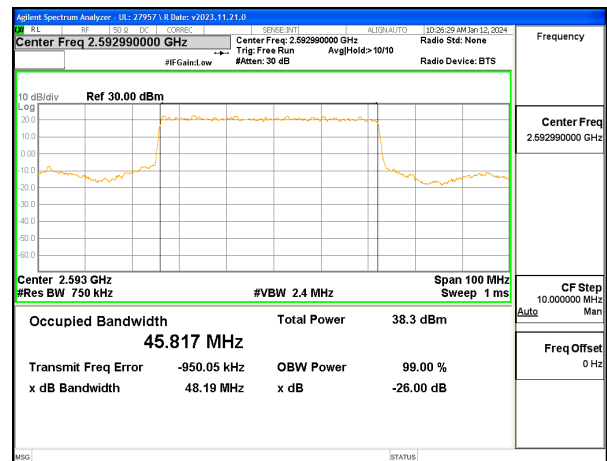
5G NR n41 20MHz BPSK Middle Channel RB50-0



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



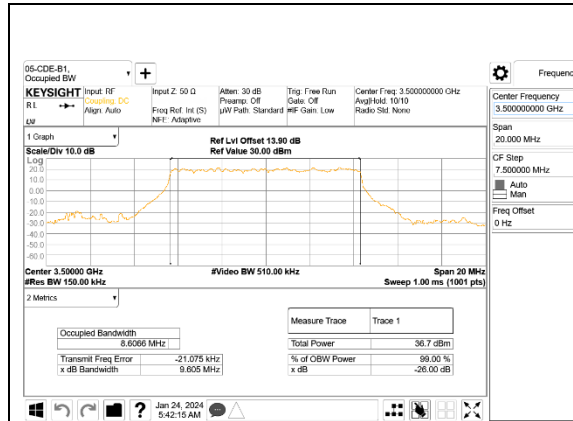
5G NR n41 40MHz BPSK Middle Channel RB100-0



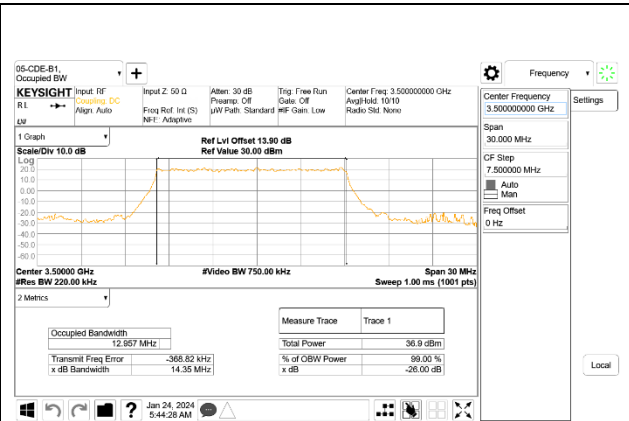
5G NR n41 50MHz BPSK Middle Channel RB128-0



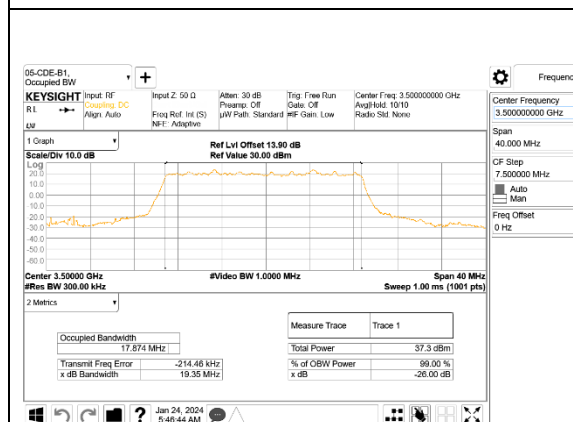
## 9.1.2. 5G NR n77 (FCC Part 27 3450-3550MHz)



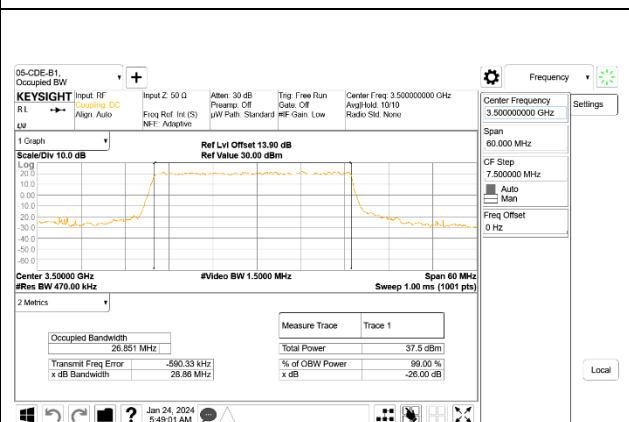
5G NR n77 10MHz BPSK Middle Channel RB24-0, ID 27342



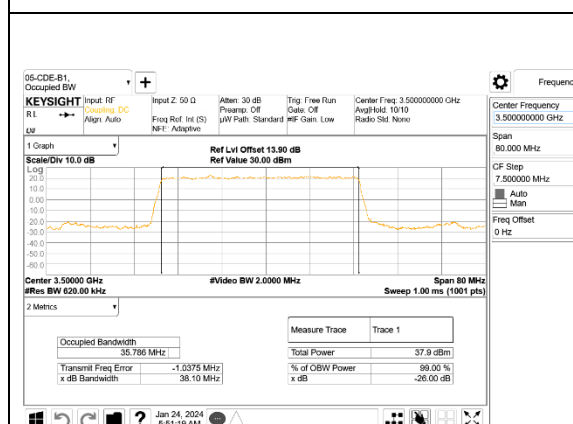
5G NR n77 15MHz BPSK Middle Channel RB36-0, ID 27342



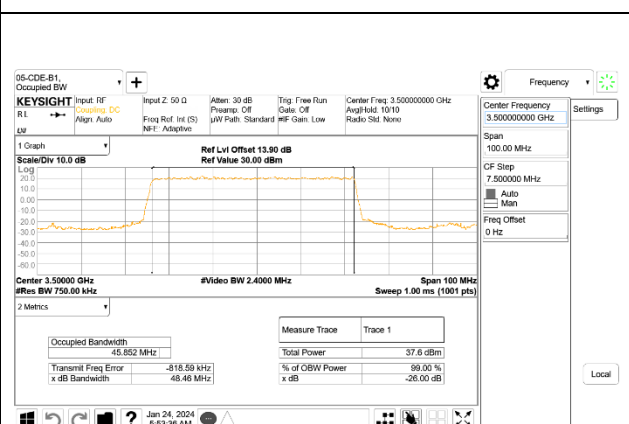
5G NR n77 20MHz BPSK Middle Channel RB50-0, ID 27342



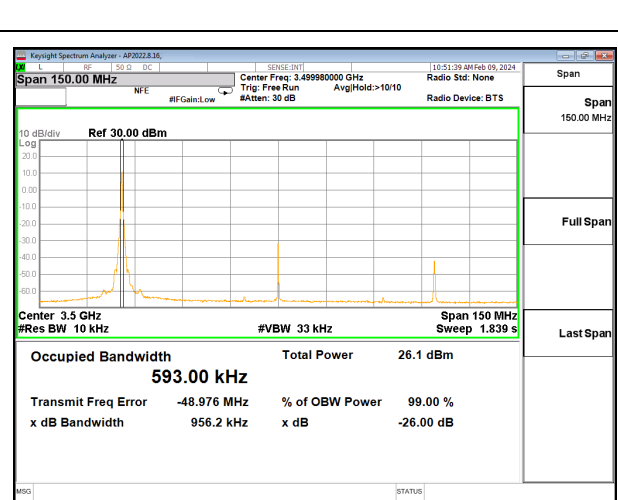
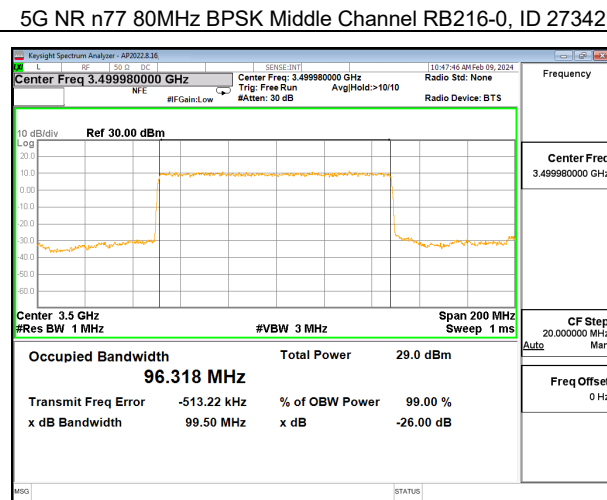
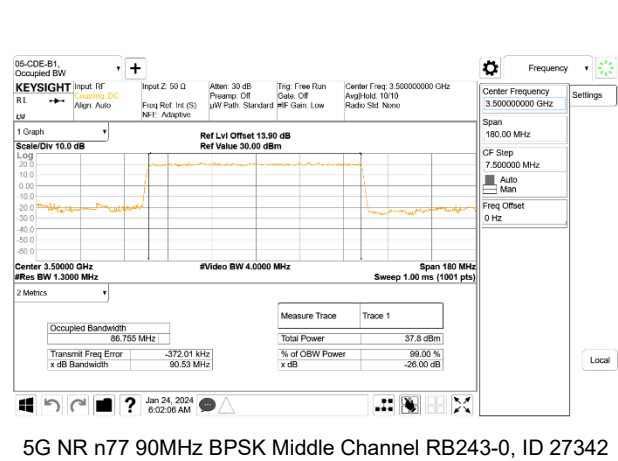
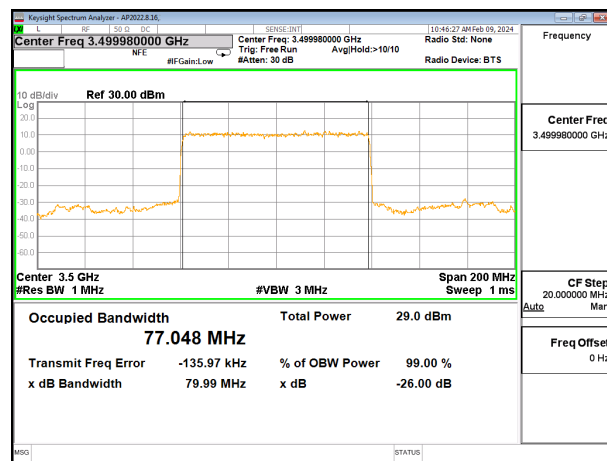
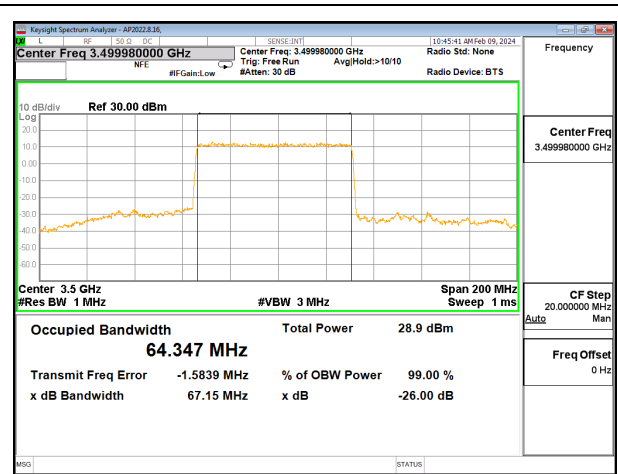
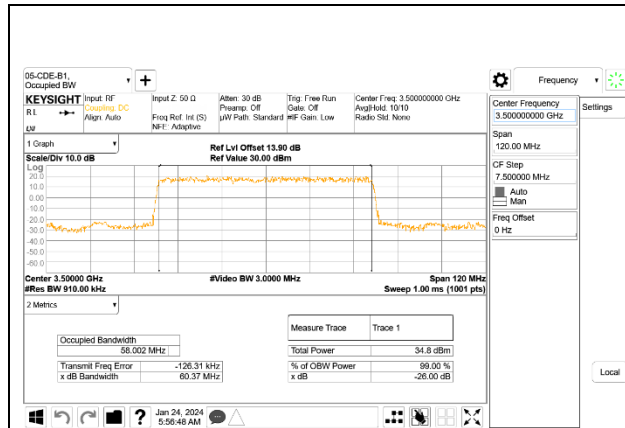
5G NR n77 30MHz BPSK Middle Channel RB75-0, ID 27342



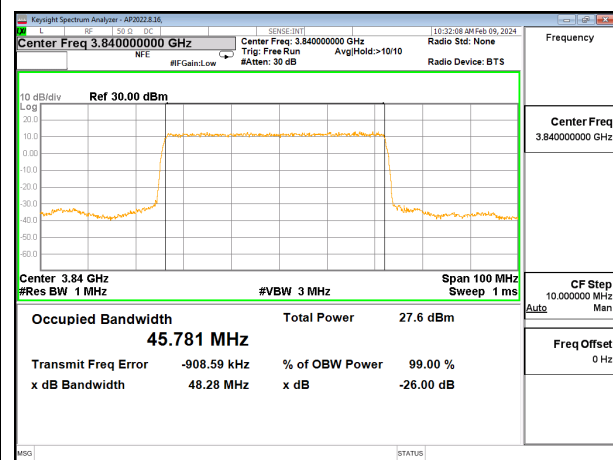
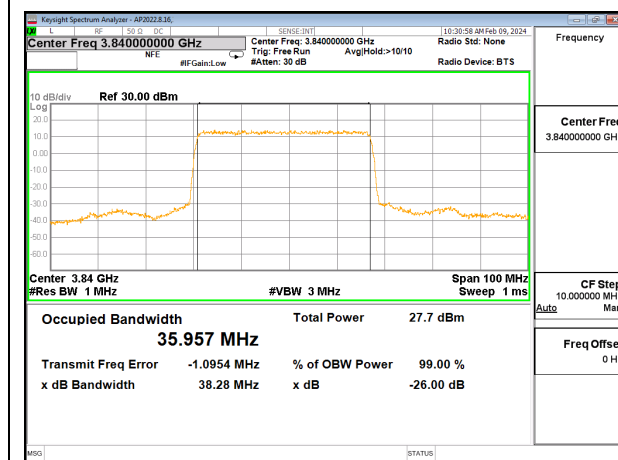
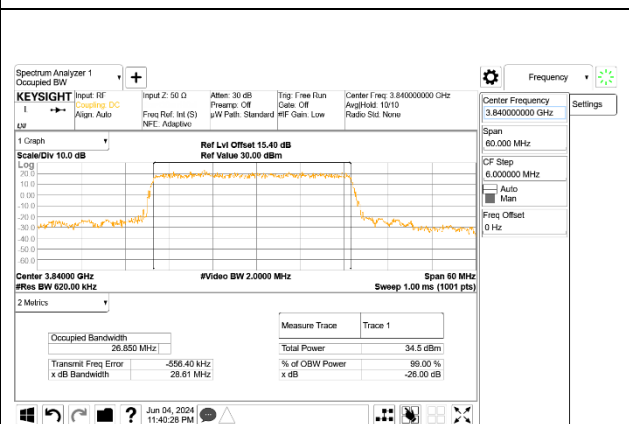
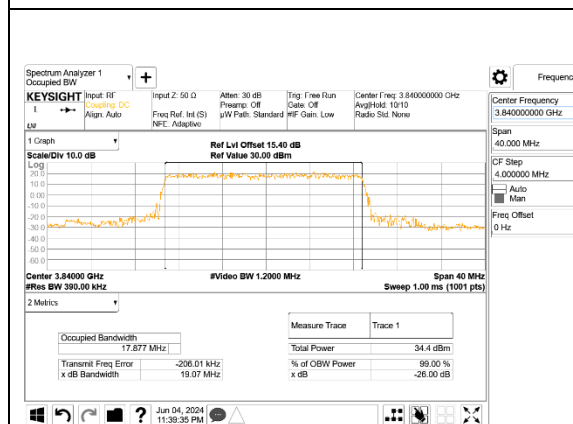
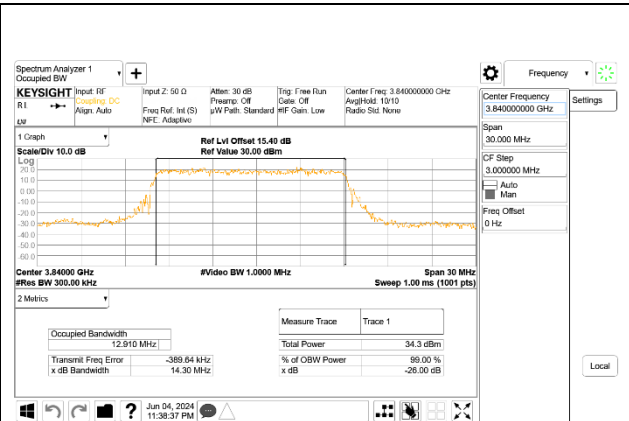
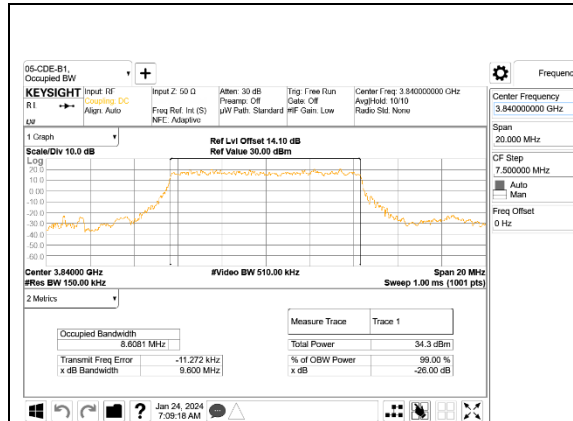
5G NR n77 40MHz BPSK Middle Channel RB100-0, ID 27342

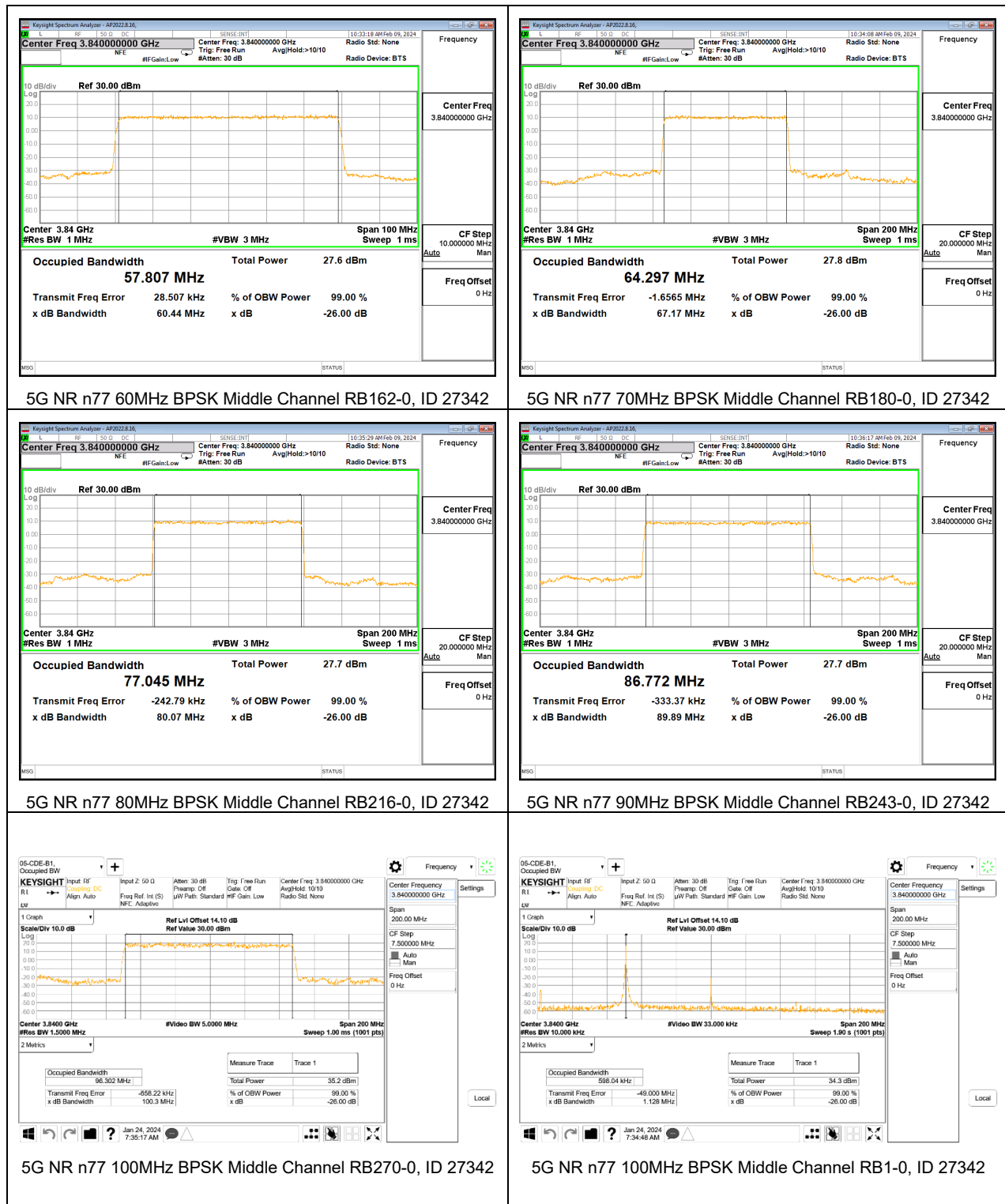


5G NR n77 50MHz BPSK Middle Channel RB128-0, ID 27342



### 9.1.3. 5G NR n77 (FCC Part 27 3700-3980MHz)





## 9.2. EMISSION MASK AND ADJACENT CHANNEL POWER

For Spectrum Emission Mask plots, the Keysight PXA N9030A is configured to sweep with a moving integration window, the width of which can be adjusted to different sizes across the sweep. The window width is configured to be greater than or equal to the required reference bandwidth. The center frequencies of the integration window for the different integration windows was set such that the upper and lower edges of the windows are aligned with the transition points in the reference bandwidths. This is achieved by setting the start / stop frequencies of the window with an offset equal to the reference bandwidth / 2 from the transition point.

### TEST PROCEDURE

The transmitter output was connected to a CMW500Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

1. Set the spectrum analyzer span to include the block edge frequency.
2. Set a marker to point the corresponding band edge frequency in each test case.
3. Set display line at -13 dBm
4. Set resolution bandwidth to at least 1% of emission bandwidth.

### TEST PROCEDURE (FCC LTE BAND 41)

(m)(6) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

(ii) When measuring unwanted emissions to demonstrate compliance with the limits, the CBSD and End User Device nominal carrier frequency/channel shall be adjusted as close to the licensee's authorized frequency block edges, both upper and lower, as the design permits.

(iii) Compliance with emission limits shall be demonstrated using either average (RMS)-detected or peak-detected power measurement techniques.

### RESULTS



## 9.2.1. 5G NR n41 EMISSION MASK

### LIMITS

FCC: §27.53

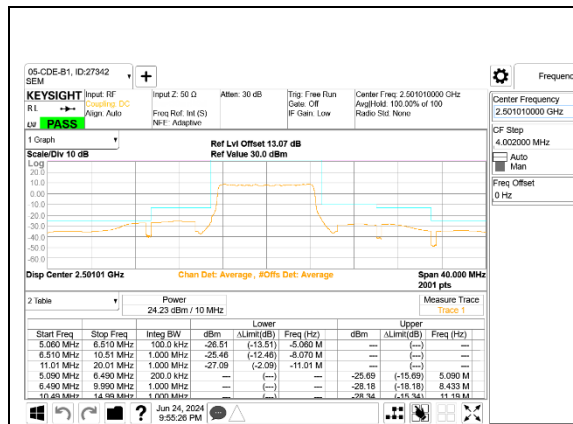
(m)(4) For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

**5G NR n41 EMISSION MASK**

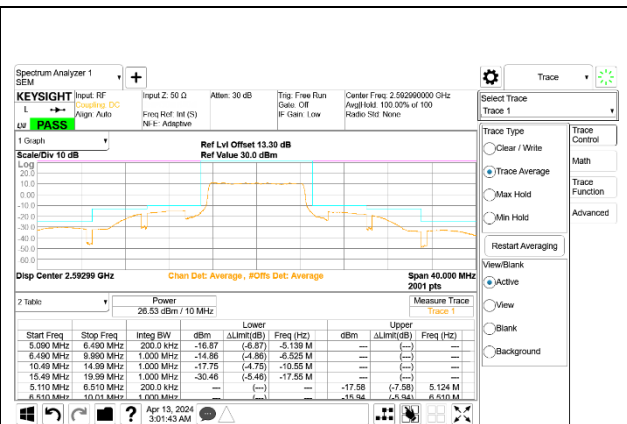




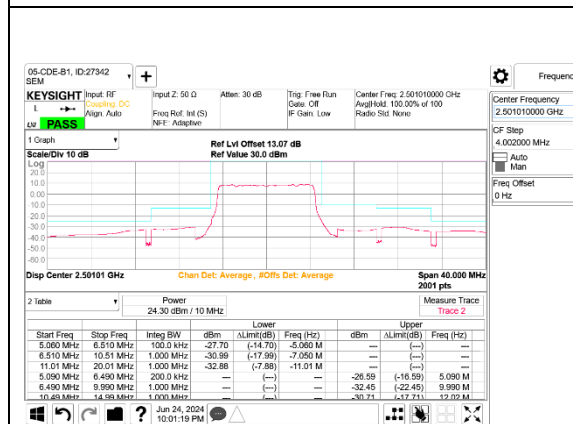




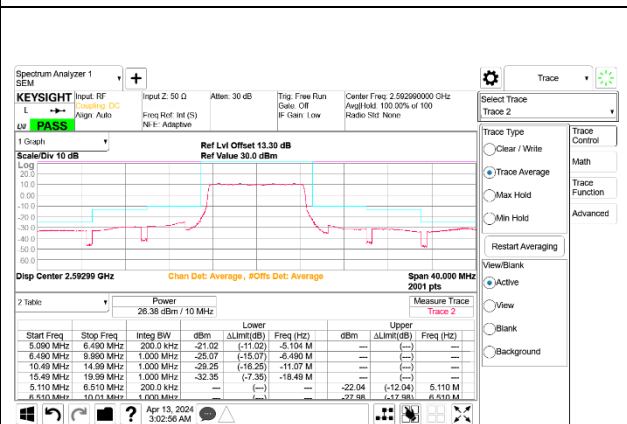
5G NR n41 10MHz BPSK Low Channel RB24-0 Port A



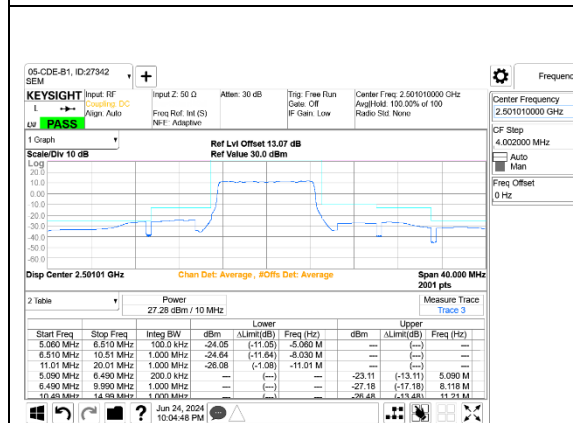
5G NR n41 10MHz BPSK Mid Channel RB24-0 Port A ID:27342



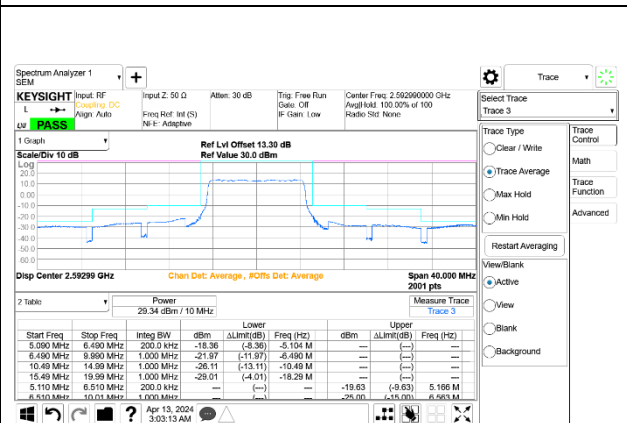
5G NR n41 10MHz BPSK Low Channel RB24-0 Port B



5G NR n41 10MHz BPSK Mid Channel RB24-0 Port B ID:27342



5G NR n41 10MHz BPSK Low Channel RB24-0 Port A+B



5G NR n41 10MHz BPSK Mid Channel RB24-0 Port A+B ID:27342

