



# SPOT CHECK REPORT

## FCC PART 2 & 22 & 24 & 27

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**FCC ID:** XMR2020RM500QAE

**Application:** Quectel Wireless Solutions Company Limited

**Application Type:** Certification

**Product:** 5G Sub-6 GHz M.2 Module

**Model No.:** RM500Q-AE

**Brand Name:** Quectel

**FCC Rule Part(s):** Part 2, 22 (H), 24 (E), 27

**Test Date:** December 09, 2020 ~ January 04, 2021

Reviewed By:

Sunny Sun

Approved By:

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.26-2015. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

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## Revision History

| Report No.    | Version | Description    | Issue Date | Note  |
|---------------|---------|----------------|------------|-------|
| 2011RSU077-U6 | Rev. 01 | Initial Report | 01-10-2021 | Valid |
|               |         |                |            |       |

Note: This application for certification is leveraging the data reuse procedures from KDB 484596 based on reference FCC ID: XMR2020RM502QAE to cover variant FCC ID: XMR2020RM500QAE.

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## 1. GENERAL INFORMATION

### 1.1. Applicant

Quectel Wireless Solutions Company Limited

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District,  
Shanghai, China 200233

## 1.2. Manufacturer

Quectel Wireless Solutions Company Limited

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District,  
Shanghai, China 200233

### 1.3. Testing Facility

|                                     |                                                                                                                                           |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <b>Test Site - MRT Suzhou Laboratory</b>                                                                                                  |
|                                     | <b>Laboratory Location (Suzhou - Wuzhong)</b><br>D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China       |
|                                     | <b>Laboratory Location (Suzhou - SIP)</b><br>4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China |
|                                     | <b>Laboratory Accreditations</b>                                                                                                          |
|                                     | A2LA: 3628.01<br>FCC: CN1166<br>VCCI: R-20025, G-20034, C-20020, T-20020                                                                  |
|                                     | CNAS: L10551<br>ISED: CN0001                                                                                                              |
| <input type="checkbox"/>            | <b>Test Site - MRT Shenzhen Laboratory</b>                                                                                                |
|                                     | <b>Laboratory Location (Shenzhen)</b><br>1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China  |
|                                     | <b>Laboratory Accreditations</b>                                                                                                          |
|                                     | A2LA: 3628.02<br>FCC: CN1284                                                                                                              |
|                                     | CNAS: L10551<br>ISED: CN0105                                                                                                              |
| <input type="checkbox"/>            | <b>Test Site - MRT Taiwan Laboratory</b>                                                                                                  |
|                                     | <b>Laboratory Location (Taiwan)</b><br>No. 38, Fuxing 2 <sup>nd</sup> Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)               |
|                                     | <b>Laboratory Accreditations</b>                                                                                                          |
|                                     | TAF: L3261-190725<br>FCC: 291082, TW3261                                                                                                  |
|                                     | ISED: TW3261                                                                                                                              |

## 2. PRODUCT INFORMATION

### 2.1. Equipment Description

|                        |                                                                                                                                                                                                                                                                                       |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:          | 5G Sub-6 GHz M.2 Module                                                                                                                                                                                                                                                               |
| Model No.:             | RM502Q-AE                                                                                                                                                                                                                                                                             |
| Brand Name:            | Quectel                                                                                                                                                                                                                                                                               |
| IMEI:                  | 867197050003215                                                                                                                                                                                                                                                                       |
| Operating Temperature: | -20 ~ 60 °C                                                                                                                                                                                                                                                                           |
| Power Type:            | 3.135 ~ 4.4Vdc, typical 3.7Vdc                                                                                                                                                                                                                                                        |
| UMTS Specification     |                                                                                                                                                                                                                                                                                       |
| Single Band:           | Band 2, 4, 5                                                                                                                                                                                                                                                                          |
| Modulation:            | Uplink up to 16QAM, Downlink up to 64QAM                                                                                                                                                                                                                                              |
| Category:              | Category 6                                                                                                                                                                                                                                                                            |
| E-UTRA Specification   |                                                                                                                                                                                                                                                                                       |
| Single Band:           | Band 2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 30, 38, 41, 48, 66, 71                                                                                                                                                                                                                       |
| Intra-Band:            | CA_2C, CA_5B, CA_7C, CA_38C, CA_41C, CA_66C                                                                                                                                                                                                                                           |
| Modulation:            | UL & DL up to 256QAM                                                                                                                                                                                                                                                                  |
| Category:              | Category 18                                                                                                                                                                                                                                                                           |
| 5G NR Specification    |                                                                                                                                                                                                                                                                                       |
| SA Band:               | n2, n5, n7, n12, n25, n41, n66, n71, n77                                                                                                                                                                                                                                              |
| SA UL MIMO Band:       | n41                                                                                                                                                                                                                                                                                   |
| EN-DC Band:            | DC_5A_n2A, DC_12A_n2, DC_13A_n2A, DC_2A_n5A<br>DC_30A_n5A, DC_66A_n5A, DC_5A_n7A, DC_12A_n7A<br>DC_2A_n12A, DC_12A_n25A, DC_2A_n41A, DC_25A_n41A<br>DC_26A_n41A, DC_66A_n41A, DC_5A_n66A, DC_12A_n66A<br>DC_13A_n66A, DC_14A_n66A, DC_71A_n66A, DC_2A_n71A<br>DC_7A_n71A, DC_66A_n71A |
| HPUE Band:             | n41, n77                                                                                                                                                                                                                                                                              |
| SCS for NR cell:       | FDD Band: 15kHz; TDD Band: 30kHz                                                                                                                                                                                                                                                      |
| Modulation:            | UL & DL up to 256QAM                                                                                                                                                                                                                                                                  |

## 2.2. Product Specification Subjective to this Report

|                                     |                                                                                                                                                       |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| FDD T <sub>x</sub> Frequency Range: | n2: 1850 ~ 1910 MHz; n5: 824 ~ 849 MHz<br>n7: 2500 ~ 2570 MHz; n12: 699 ~ 716 MHz<br>n25: 1850 ~ 1915 MHz; n66: 1710 ~ 1780 MHz<br>n71: 663 ~ 698MHz  |
| FDD R <sub>x</sub> Frequency Range: | n2: 1930 ~ 1990 MHz; n5: 869 ~ 894 MHz<br>n7: 2620 ~ 2690 MHz; n12: 729 ~ 746 MHz<br>n25: 1930 ~ 1995 MHz; n66: 2110 ~ 2200 MHz<br>n71: 617 ~ 652 MHz |
| TDD Frequency Range:                | n41: 2496 ~ 2690 MHz; n77: 3700 ~ 3980MHz                                                                                                             |
| Support Bandwidth:                  | n2, n5, n7, n25, n66, n71: 5, 10, 15, 20MHz<br>n12: 5, 10, 15MHz<br>n41: 20, 30, 40, 50, 60, 80, 100MHz<br>n77: 100MHz                                |

Note 1: For other features of this EUT, test report will be issued separately.

Note 2: The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

## 2.3. Description of Available Antennas

| Technology | Frequency Range (MHz) | Antenna Type | Max Peak Gain (dBi) |
|------------|-----------------------|--------------|---------------------|
| n2         | 1850 ~ 1910           | Dipole       | 0.25                |
| n5         | 824 ~ 849             |              | 2.68                |
| n7         | 2500 ~ 2570           |              | 0.55                |
| n12        | 699 ~ 716             |              | -0.20               |
| n25        | 1850 ~ 1915           |              | 0.25                |
| n41        | 2496 ~ 2690           |              | 0.78                |
| n66        | 1710 ~ 1780           |              | 1.47                |
| n71        | 663 ~ 698             |              | 1.22                |
| n77        | 3700 ~ 3980           |              | -4.11               |

Note: All antenna information (Antenna type and Peak Gain) is provided by the manufacturer.

## 2.4. Test Methodology

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ANSI C63.26:2015
- FCC CFR 47 Part 2, Part 22, Part 24, Part 27
- FCC KDB 971168 D01 v03r01: Power Meas License Digital Systems
- FCC KDB 971168 D02 v02r01: Misc Rev Approv License Devices
- FCC KDB 412172 D01 v01r01: Determining ERP and EIRP
- FCC KDB 662911 D01 v02r01: Multiple Transmitter Output

## 2.5. Device Capabilities

This device contains 5G NR SA & EN-DC the following capabilities: Working on NR Band n2, n5, n7, n12, n25, n41, n66, n71, n77.

n25 (1850 ~ 1915 MHz) overlaps the entire frequency range of n2 (1850 ~ 1910 MHz). Therefore, test data provided in this report covers n2 as well as n25.

PI/2 BPSK modulation applied for 5G NR band 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.

UL MIMO mode only support CP-OFDM.

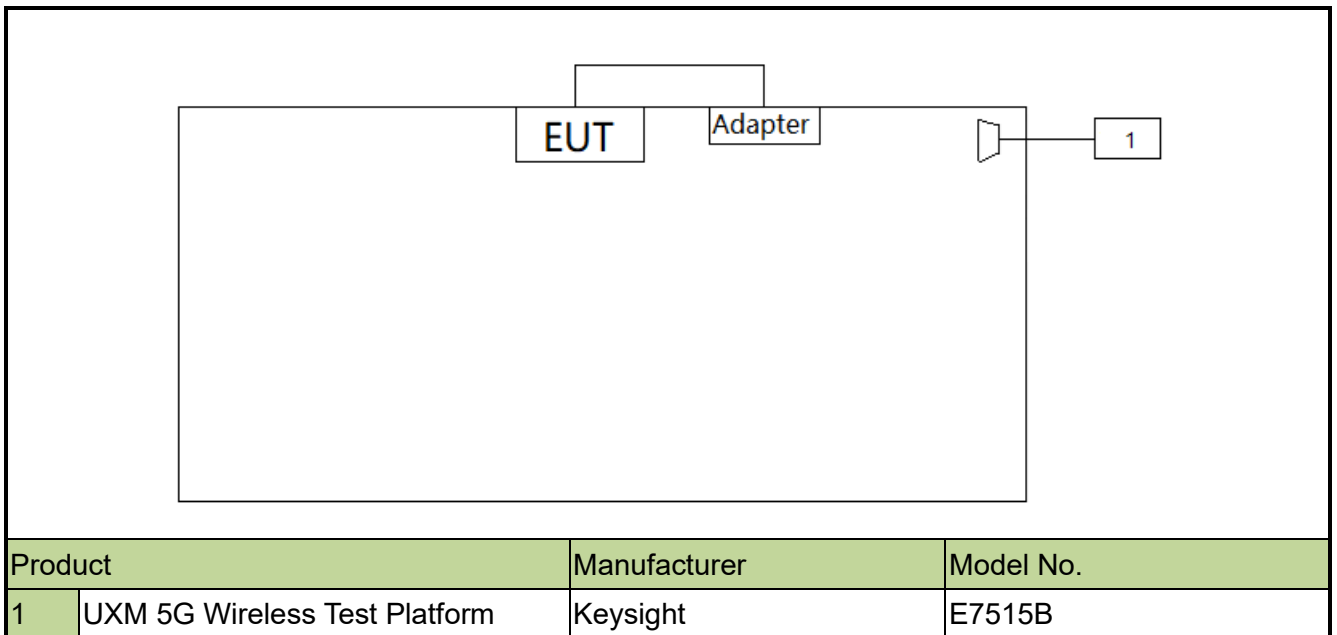
The worst-case scenario for all measurements is based on an engineering evaluation and QPSK was observed as the worst one and set for all conducted and radiated. Output power measurements were measured on PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM, and BPSK modulations.

For EN-DC mode, 5G NR FR1 bands are tested in this report (Output Power, Conducted Band Edge, Radiated Spurious Emissions), all the other RF bands are tested in the other reports separately.

## 2.6. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

## 2.7. Configuration of Tested System



## 2.8. Test Environment Condition

|                     |            |
|---------------------|------------|
| Ambient Temperature | 15 ~ 35°C  |
| Relative Humidity   | 20 ~ 75%RH |



### 3. TEST EQUIPMENT CALIBRATION DATE

Conducted Test Equipment (WZ-SR6, WZ-TR3)

| Instrument                     | Manufacturer | Type No.  | Asset No.   | Cali. Interval | Cali. Due Date |
|--------------------------------|--------------|-----------|-------------|----------------|----------------|
| EXA Signal Analyzer            | Agilent      | N9020A    | MRTSUE06106 | 1 year         | 2021/04/15     |
| UXM 5G Wireless Test Platform  | Keysight     | E7515B    | MRTSUE06869 | 1 year         | 2021/05/25     |
| EXA Signal Analyzer            | Keysight     | N9010B    | MRTSUE06452 | 1 year         | 2021/07/11     |
| Signal Analyzer                | R&S          | FSV40     | MRTSUE06218 | 1 year         | 2021/04/15     |
| Power Meter                    | Agilent      | U2021XA   | MRTSUE06030 | 1 year         | 2021/11/18     |
| DC Power Supply                | GWINSTEK     | DPS-3303C | MRTSUE06064 | N/A            | N/A            |
| True RMS Clamp Meter           | Fluke        | 319       | MRTSUE06080 | 1 year         | 2021/05/06     |
| Directional Coupler            | Agilent      | 87301D    | MRTSUE06082 | 1 year         | 2021/03/25     |
| Attenuator                     | MVE          | 6dB       | MRTSUE06534 | 1 year         | 2021/12/12     |
| Attenuator                     | MVE          | 10dB      | MRTSUE06543 | 1 year         | 2021/12/12     |
| Temperature & Humidity Chamber | BAOYT        | BYH-150CL | MRTSUE06051 | 1 year         | 2021/11/07     |
| Thermohygrometer               | testo        | 608-H1    | MRTSUE06401 | 1 year         | 2021/08/08     |

#### 4. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

| Conducted Spurious Emissions                                                      |
|-----------------------------------------------------------------------------------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_c(y)$ ):<br>0.78dB |
| Output Power                                                                      |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_c(y)$ ):<br>1.13dB |

## 5. TEST RESULT

### 5.1. Summary

| FCC Part<br>Section(s)                                 | Test<br>Description                                        | Test<br>Limit                          | Test<br>Condition | Test<br>Result | Reference   |
|--------------------------------------------------------|------------------------------------------------------------|----------------------------------------|-------------------|----------------|-------------|
| 22.913(a)(5)                                           | Equivalent Radiated Power<br>(n5)                          | < 7 Watts Max ERP                      | Conducted         | Pass           | Section 5.2 |
| 27.50(c)(10)                                           | Equivalent Radiated Power<br>(n12, n71)                    | < 3 Watts Max ERP                      |                   |                |             |
| 24.232(c)<br>27.50(h)(2)                               | Equivalent Isotropic<br>Radiated Power<br>(n2/25, n7, n41) | < 2 Watts Max EIRP                     |                   |                |             |
| 27.50(d)(4)<br>27.50(j)(3)                             | Equivalent Isotropic<br>Radiated Power (n66, n77)          | < 1 Watts Max EIRP                     |                   |                |             |
| 2.1051, 22.917(a)<br>24.238(a),<br>27.53(g),(h),(l)(2) | Spurious Emission<br>(n2/25, n66, n5, n12, n71,<br>n77)    | < 43 + 10log10 (P <sub>[Watts]</sub> ) |                   | Pass           | Section 5.3 |
| 2.1051, 27.53(m)                                       | Spurious Emission<br>(n7, n41)                             | < 55 + 10log10 (P <sub>[Watts]</sub> ) |                   |                |             |

#### Notes:

- 1) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 2) The difference compared with the original report is only different DL CA bands. Output power and conducted spurious emissions verification worst test refer to original report.

## **5.2. Equivalent Isotropically Radiated Power Measurement**

### **5.2.1. Test Limit**

The ERP of mobile transmitters must not exceed 7 watts for n5.

The ERP of mobile transmitters must not exceed 3 watts for n12 & n71.

The EIRP of mobile transmitters must not exceed 2 watts for n2 & n7 & n25 & n41.

The EIRP of mobile transmitters must not exceed 1 watt for n66 & n77.

### **5.2.2. Test Procedures Used**

ANSI C63.26-2015 - Section 5.2

### **5.2.3. Test Setting**

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation (1) as follows:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_T$$

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as  $P_{\text{Meas}}$ , e.g., dBm or dBW)

$P_{\text{Meas}}$  measured transmitter output power or PSD, in dBm or dBW

$G_T$  gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

$$\text{ERP} = \text{EIRP} - 2.15$$

## 5.2.4. Test Setup



### 5.2.5.Test Result

|               |                         |           |                         |
|---------------|-------------------------|-----------|-------------------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6                  |
| Test Engineer | Cloud Guo               | Test Date | 2020/12/09 ~ 2020/12/30 |
| Test Band     | n2/25_SA                |           |                         |

| Channel No.                                                    | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | EIRP (dBm) | Limit (dBm) |
|----------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|------------|-------------|
| PI/2 BPSK                                                      |                 |                         |         |           |                    |            |             |
| 370500                                                         | 1852.5          | 5                       | 1       | 0         | 23.15              | 23.40      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 23.20              | 23.45      | < 33.01     |
|                                                                |                 |                         | 12      | 6         | 23.27              | 23.52      | < 33.01     |
|                                                                |                 |                         | 25      | 0         | 23.31              | 23.56      | < 33.01     |
| 376500                                                         | 1882.5          | 5                       | 1       | 0         | 23.19              | 23.44      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 23.25              | 23.50      | < 33.01     |
|                                                                |                 |                         | 12      | 6         | 23.27              | 23.52      | < 33.01     |
|                                                                |                 |                         | 25      | 0         | 23.32              | 23.57      | < 33.01     |
| 382500                                                         | 1912.5          | 5                       | 1       | 0         | 23.22              | 23.47      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 23.29              | 23.54      | < 33.01     |
|                                                                |                 |                         | 12      | 6         | 23.22              | 23.47      | < 33.01     |
|                                                                |                 |                         | 25      | 0         | 23.23              | 23.48      | < 33.01     |
| 371000                                                         | 1855.0          | 10                      | 1       | 0         | 23.23              | 23.48      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 23.14              | 23.39      | < 33.01     |
|                                                                |                 |                         | 25      | 12        | 23.30              | 23.55      | < 33.01     |
|                                                                |                 |                         | 50      | 0         | 23.32              | 23.57      | < 33.01     |
| 376500                                                         | 1882.5          | 10                      | 1       | 0         | 23.17              | 23.42      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 23.21              | 23.46      | < 33.01     |
|                                                                |                 |                         | 25      | 12        | 23.29              | 23.54      | < 33.01     |
|                                                                |                 |                         | 50      | 0         | 23.24              | 23.49      | < 33.01     |
| 382000                                                         | 1910.0          | 10                      | 1       | 0         | 23.18              | 23.43      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 23.20              | 23.45      | < 33.01     |
|                                                                |                 |                         | 25      | 12        | 23.22              | 23.47      | < 33.01     |
|                                                                |                 |                         | 50      | 0         | 23.18              | 23.43      | < 33.01     |
| Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) |                 |                         |         |           |                    |            |             |

| Channel No.                                                    | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | EIRP (dBm) | Limit (dBm) |
|----------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|------------|-------------|
| PI/2 BPSK                                                      |                 |                         |         |           |                    |            |             |
| 371500                                                         | 1857.5          | 15                      | 1       | 0         | 23.29              | 23.54      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 23.38              | 23.63      | < 33.01     |
|                                                                |                 |                         | 36      | 18        | 23.33              | 23.58      | < 33.01     |
|                                                                |                 |                         | 75      | 0         | 23.30              | 23.55      | < 33.01     |
| 376500                                                         | 1882.5          | 15                      | 1       | 0         | 23.21              | 23.46      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 23.19              | 23.44      | < 33.01     |
|                                                                |                 |                         | 36      | 18        | 23.32              | 23.57      | < 33.01     |
|                                                                |                 |                         | 75      | 0         | 23.19              | 23.44      | < 33.01     |
| 381500                                                         | 1907.5          | 15                      | 1       | 0         | 23.18              | 23.43      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 23.20              | 23.45      | < 33.01     |
|                                                                |                 |                         | 36      | 18        | 23.31              | 23.56      | < 33.01     |
|                                                                |                 |                         | 75      | 0         | 23.19              | 23.44      | < 33.01     |
| 372000                                                         | 1860.0          | 20                      | 1       | 0         | 23.35              | 23.60      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 23.34              | 23.59      | < 33.01     |
|                                                                |                 |                         | 50      | 25        | 23.44              | 23.69      | < 33.01     |
|                                                                |                 |                         | 100     | 0         | 23.43              | 23.68      | < 33.01     |
| 376500                                                         | 1882.5          | 20                      | 1       | 0         | 23.23              | 23.48      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 23.31              | 23.56      | < 33.01     |
|                                                                |                 |                         | 50      | 25        | 23.22              | 23.47      | < 33.01     |
|                                                                |                 |                         | 100     | 0         | 23.25              | 23.50      | < 33.01     |
| 381000                                                         | 1905.0          | 20                      | 1       | 0         | 23.37              | 23.62      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 23.35              | 23.60      | < 33.01     |
|                                                                |                 |                         | 50      | 25        | 23.24              | 23.49      | < 33.01     |
|                                                                |                 |                         | 100     | 0         | 23.29              | 23.54      | < 33.01     |
| Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) |                 |                         |         |           |                    |            |             |

|               |                         |           |                         |
|---------------|-------------------------|-----------|-------------------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6                  |
| Test Engineer | Cloud Guo               | Test Date | 2020/12/09 ~ 2020/12/30 |
| Test Band     | n5_SA                   |           |                         |

| Channel No.                                                          | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | ERP (dBm) | Limit (dBm) |
|----------------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|-----------|-------------|
| PI/2 BPSK                                                            |                 |                         |         |           |                    |           |             |
| 165300                                                               | 826.5           | 5                       | 1       | 0         | 23.36              | 23.89     | < 38.45     |
|                                                                      |                 |                         | 1       | 1         | 23.31              | 23.84     | < 38.45     |
|                                                                      |                 |                         | 12      | 6         | 23.25              | 23.78     | < 38.45     |
|                                                                      |                 |                         | 25      | 0         | 23.28              | 23.81     | < 38.45     |
| 167300                                                               | 836.5           | 5                       | 1       | 0         | 22.97              | 23.50     | < 38.45     |
|                                                                      |                 |                         | 1       | 1         | 22.93              | 23.46     | < 38.45     |
|                                                                      |                 |                         | 12      | 6         | 22.96              | 23.49     | < 38.45     |
|                                                                      |                 |                         | 25      | 0         | 22.88              | 23.41     | < 38.45     |
| 169300                                                               | 846.5           | 5                       | 1       | 0         | 23.14              | 23.67     | < 38.45     |
|                                                                      |                 |                         | 1       | 1         | 23.25              | 23.78     | < 38.45     |
|                                                                      |                 |                         | 12      | 6         | 22.98              | 23.51     | < 38.45     |
|                                                                      |                 |                         | 25      | 0         | 23.03              | 23.56     | < 38.45     |
| 165800                                                               | 829.0           | 10                      | 1       | 0         | 23.00              | 23.53     | < 38.45     |
|                                                                      |                 |                         | 1       | 1         | 23.02              | 23.55     | < 38.45     |
|                                                                      |                 |                         | 25      | 12        | 23.14              | 23.67     | < 38.45     |
|                                                                      |                 |                         | 50      | 0         | 22.99              | 23.52     | < 38.45     |
| 167300                                                               | 836.5           | 10                      | 1       | 0         | 22.93              | 23.46     | < 38.45     |
|                                                                      |                 |                         | 1       | 1         | 22.88              | 23.41     | < 38.45     |
|                                                                      |                 |                         | 25      | 12        | 22.98              | 23.51     | < 38.45     |
|                                                                      |                 |                         | 50      | 0         | 22.96              | 23.49     | < 38.45     |
| 168800                                                               | 844.0           | 10                      | 1       | 0         | 22.86              | 23.39     | < 38.45     |
|                                                                      |                 |                         | 1       | 1         | 22.85              | 23.38     | < 38.45     |
|                                                                      |                 |                         | 25      | 12        | 22.85              | 23.38     | < 38.45     |
|                                                                      |                 |                         | 50      | 0         | 22.95              | 23.48     | < 38.45     |
| Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15 |                 |                         |         |           |                    |           |             |



| Channel No.                                                          | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | ERP (dBm) | Limit (dBm) |
|----------------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|-----------|-------------|
| PI/2 BPSK                                                            |                 |                         |         |           |                    |           |             |
| 166300                                                               | 831.5           | 15                      | 1       | 0         | 23.01              | 23.54     | < 38.45     |
|                                                                      |                 |                         | 1       | 1         | 23.03              | 23.56     | < 38.45     |
|                                                                      |                 |                         | 36      | 18        | 22.98              | 23.51     | < 38.45     |
|                                                                      |                 |                         | 75      | 0         | 22.94              | 23.47     | < 38.45     |
| 167300                                                               | 836.5           | 15                      | 1       | 0         | 22.94              | 23.47     | < 38.45     |
|                                                                      |                 |                         | 1       | 1         | 23.02              | 23.55     | < 38.45     |
|                                                                      |                 |                         | 36      | 18        | 22.87              | 23.40     | < 38.45     |
|                                                                      |                 |                         | 75      | 0         | 22.91              | 23.44     | < 38.45     |
| 168300                                                               | 841.5           | 15                      | 1       | 0         | 22.81              | 23.34     | < 38.45     |
|                                                                      |                 |                         | 1       | 1         | 22.79              | 23.32     | < 38.45     |
|                                                                      |                 |                         | 36      | 18        | 22.89              | 23.42     | < 38.45     |
|                                                                      |                 |                         | 75      | 0         | 22.81              | 23.34     | < 38.45     |
| 166800                                                               | 834.0           | 20                      | 1       | 0         | 23.04              | 23.57     | < 38.45     |
|                                                                      |                 |                         | 1       | 1         | 23.04              | 23.57     | < 38.45     |
|                                                                      |                 |                         | 50      | 25        | 22.96              | 23.49     | < 38.45     |
|                                                                      |                 |                         | 100     | 0         | 22.99              | 23.52     | < 38.45     |
| 167300                                                               | 836.5           | 20                      | 1       | 0         | 22.94              | 23.47     | < 38.45     |
|                                                                      |                 |                         | 1       | 1         | 22.98              | 23.51     | < 38.45     |
|                                                                      |                 |                         | 50      | 25        | 22.89              | 23.42     | < 38.45     |
|                                                                      |                 |                         | 100     | 0         | 23.05              | 23.58     | < 38.45     |
| 167800                                                               | 839.0           | 20                      | 1       | 0         | 22.91              | 23.44     | < 38.45     |
|                                                                      |                 |                         | 1       | 1         | 23.02              | 23.55     | < 38.45     |
|                                                                      |                 |                         | 50      | 25        | 22.90              | 23.43     | < 38.45     |
|                                                                      |                 |                         | 100     | 0         | 22.86              | 23.39     | < 38.45     |
| Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15 |                 |                         |         |           |                    |           |             |

|               |                         |           |                         |
|---------------|-------------------------|-----------|-------------------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6                  |
| Test Engineer | Cloud Guo               | Test Date | 2020/12/09 ~ 2020/12/30 |
| Test Band     | n7_SA                   |           |                         |

| Channel No.                                                    | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | EIRP (dBm) | Limit (dBm) |
|----------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|------------|-------------|
| PI/2 BPSK                                                      |                 |                         |         |           |                    |            |             |
| 500500                                                         | 2502.5          | 5                       | 1       | 0         | 22.83              | 23.38      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.77              | 23.32      | < 33.01     |
|                                                                |                 |                         | 12      | 6         | 22.85              | 23.40      | < 33.01     |
|                                                                |                 |                         | 25      | 0         | 22.89              | 23.44      | < 33.01     |
| 507000                                                         | 2535.0          | 5                       | 1       | 0         | 22.72              | 23.27      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.71              | 23.26      | < 33.01     |
|                                                                |                 |                         | 12      | 6         | 22.80              | 23.35      | < 33.01     |
|                                                                |                 |                         | 25      | 0         | 22.87              | 23.42      | < 33.01     |
| 513500                                                         | 2567.5          | 5                       | 1       | 0         | 22.59              | 23.14      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.65              | 23.20      | < 33.01     |
|                                                                |                 |                         | 12      | 6         | 22.67              | 23.22      | < 33.01     |
|                                                                |                 |                         | 25      | 0         | 22.74              | 23.29      | < 33.01     |
| 501000                                                         | 2505.0          | 10                      | 1       | 0         | 22.55              | 23.10      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.47              | 23.02      | < 33.01     |
|                                                                |                 |                         | 25      | 12        | 22.95              | 23.50      | < 33.01     |
|                                                                |                 |                         | 50      | 0         | 23.01              | 23.56      | < 33.01     |
| 507000                                                         | 2535.0          | 10                      | 1       | 0         | 22.79              | 23.34      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.51              | 23.06      | < 33.01     |
|                                                                |                 |                         | 25      | 12        | 22.87              | 23.42      | < 33.01     |
|                                                                |                 |                         | 50      | 0         | 22.86              | 23.41      | < 33.01     |
| 513000                                                         | 2565.0          | 10                      | 1       | 0         | 22.89              | 23.44      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 23.01              | 23.56      | < 33.01     |
|                                                                |                 |                         | 25      | 12        | 23.01              | 23.56      | < 33.01     |
|                                                                |                 |                         | 50      | 0         | 23.02              | 23.57      | < 33.01     |
| Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) |                 |                         |         |           |                    |            |             |

| Channel No.                                                    | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | EIRP (dBm) | Limit (dBm) |
|----------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|------------|-------------|
| PI/2 BPSK                                                      |                 |                         |         |           |                    |            |             |
| 501500                                                         | 2507.5          | 15                      | 1       | 0         | 23.29              | 23.84      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 23.19              | 23.74      | < 33.01     |
|                                                                |                 |                         | 36      | 18        | 23.30              | 23.85      | < 33.01     |
|                                                                |                 |                         | 75      | 0         | 23.30              | 23.85      | < 33.01     |
| 507000                                                         | 2535.0          | 15                      | 1       | 0         | 22.99              | 23.54      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 23.01              | 23.56      | < 33.01     |
|                                                                |                 |                         | 36      | 18        | 23.02              | 23.57      | < 33.01     |
|                                                                |                 |                         | 75      | 0         | 23.03              | 23.58      | < 33.01     |
| 512500                                                         | 2562.5          | 15                      | 1       | 0         | 22.91              | 23.46      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.91              | 23.46      | < 33.01     |
|                                                                |                 |                         | 36      | 18        | 23.04              | 23.59      | < 33.01     |
|                                                                |                 |                         | 75      | 0         | 22.93              | 23.48      | < 33.01     |
| 502000                                                         | 2510.0          | 20                      | 1       | 0         | 23.16              | 23.71      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 23.36              | 23.91      | < 33.01     |
|                                                                |                 |                         | 50      | 25        | 23.25              | 23.80      | < 33.01     |
|                                                                |                 |                         | 100     | 0         | 23.21              | 23.76      | < 33.01     |
| 507000                                                         | 2535.0          | 20                      | 1       | 0         | 23.02              | 23.57      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.97              | 23.52      | < 33.01     |
|                                                                |                 |                         | 50      | 25        | 23.03              | 23.58      | < 33.01     |
|                                                                |                 |                         | 100     | 0         | 23.02              | 23.57      | < 33.01     |
| 512000                                                         | 2560.0          | 20                      | 1       | 0         | 22.86              | 23.41      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.85              | 23.40      | < 33.01     |
|                                                                |                 |                         | 50      | 25        | 22.98              | 23.53      | < 33.01     |
|                                                                |                 |                         | 100     | 0         | 22.89              | 23.44      | < 33.01     |
| Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) |                 |                         |         |           |                    |            |             |

|               |                         |           |                         |
|---------------|-------------------------|-----------|-------------------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6                  |
| Test Engineer | Cloud Guo               | Test Date | 2020/12/09 ~ 2020/12/30 |
| Test Band     | n12_SA                  |           |                         |

| Channel No.                                                          | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | ERP (dBm) | Limit (dBm) |
|----------------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|-----------|-------------|
| PI/2 BPSK                                                            |                 |                         |         |           |                    |           |             |
| 140300                                                               | 701.5           | 5                       | 1       | 0         | 23.22              | 20.87     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.24              | 20.89     | < 34.77     |
|                                                                      |                 |                         | 12      | 6         | 23.16              | 20.81     | < 34.77     |
|                                                                      |                 |                         | 25      | 0         | 23.22              | 20.87     | < 34.77     |
| 141500                                                               | 707.5           | 5                       | 1       | 0         | 23.14              | 20.79     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.23              | 20.88     | < 34.77     |
|                                                                      |                 |                         | 12      | 6         | 23.14              | 20.79     | < 34.77     |
|                                                                      |                 |                         | 25      | 0         | 23.14              | 20.79     | < 34.77     |
| 142700                                                               | 713.5           | 5                       | 1       | 0         | 23.02              | 20.67     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 22.99              | 20.64     | < 34.77     |
|                                                                      |                 |                         | 12      | 6         | 23.01              | 20.66     | < 34.77     |
|                                                                      |                 |                         | 25      | 0         | 22.98              | 20.63     | < 34.77     |
| 140800                                                               | 704.0           | 10                      | 1       | 0         | 23.44              | 21.09     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.74              | 21.39     | < 34.77     |
|                                                                      |                 |                         | 25      | 12        | 23.55              | 21.20     | < 34.77     |
|                                                                      |                 |                         | 50      | 0         | 23.74              | 21.39     | < 34.77     |
| 141500                                                               | 707.5           | 10                      | 1       | 0         | 23.49              | 21.14     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.41              | 21.06     | < 34.77     |
|                                                                      |                 |                         | 25      | 12        | 23.55              | 21.20     | < 34.77     |
|                                                                      |                 |                         | 50      | 0         | 23.43              | 21.08     | < 34.77     |
| 142200                                                               | 711.0           | 10                      | 1       | 0         | 23.32              | 20.97     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.23              | 20.88     | < 34.77     |
|                                                                      |                 |                         | 25      | 12        | 23.29              | 20.94     | < 34.77     |
|                                                                      |                 |                         | 50      | 0         | 23.00              | 20.65     | < 34.77     |
| Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15 |                 |                         |         |           |                    |           |             |

| Channel No.                                                          | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | ERP (dBm) | Limit (dBm) |
|----------------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|-----------|-------------|
| PI/2 BPSK                                                            |                 |                         |         |           |                    |           |             |
| 141300                                                               | 706.5           | 15                      | 1       | 0         | 23.24              | 20.89     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.26              | 20.91     | < 34.77     |
|                                                                      |                 |                         | 36      | 18        | 23.21              | 20.86     | < 34.77     |
|                                                                      |                 |                         | 75      | 0         | 23.13              | 20.78     | < 34.77     |
| 141500                                                               | 707.5           | 15                      | 1       | 0         | 23.25              | 20.90     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.24              | 20.89     | < 34.77     |
|                                                                      |                 |                         | 36      | 18        | 23.13              | 20.78     | < 34.77     |
|                                                                      |                 |                         | 75      | 0         | 23.11              | 20.76     | < 34.77     |
| 141700                                                               | 708.5           | 15                      | 1       | 0         | 23.18              | 20.83     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.28              | 20.93     | < 34.77     |
|                                                                      |                 |                         | 36      | 18        | 23.15              | 20.80     | < 34.77     |
|                                                                      |                 |                         | 75      | 0         | 23.10              | 20.75     | < 34.77     |
| Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15 |                 |                         |         |           |                    |           |             |

|               |                         |           |                         |
|---------------|-------------------------|-----------|-------------------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6                  |
| Test Engineer | Cloud Guo               | Test Date | 2020/12/09 ~ 2020/12/30 |
| Test Band     | n66_SA                  |           |                         |

| Channel No.                                                    | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | EIRP (dBm) | Limit (dBm) |
|----------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|------------|-------------|
| PI/2 BPSK                                                      |                 |                         |         |           |                    |            |             |
| 342500                                                         | 1712.5          | 5                       | 1       | 0         | 23.20              | 24.67      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 23.18              | 24.65      | < 30.00     |
|                                                                |                 |                         | 12      | 6         | 23.25              | 24.72      | < 30.00     |
|                                                                |                 |                         | 25      | 0         | 23.23              | 24.70      | < 30.00     |
| 349000                                                         | 1745.0          | 5                       | 1       | 0         | 22.97              | 24.44      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 22.98              | 24.45      | < 30.00     |
|                                                                |                 |                         | 12      | 6         | 23.10              | 24.57      | < 30.00     |
|                                                                |                 |                         | 25      | 0         | 23.05              | 24.52      | < 30.00     |
| 355500                                                         | 1777.5          | 5                       | 1       | 0         | 23.07              | 24.54      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 23.11              | 24.58      | < 30.00     |
|                                                                |                 |                         | 12      | 6         | 23.22              | 24.69      | < 30.00     |
|                                                                |                 |                         | 25      | 0         | 23.14              | 24.61      | < 30.00     |
| 343000                                                         | 1715.0          | 10                      | 1       | 0         | 23.13              | 24.60      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 23.17              | 24.64      | < 30.00     |
|                                                                |                 |                         | 25      | 12        | 23.13              | 24.60      | < 30.00     |
|                                                                |                 |                         | 50      | 0         | 23.16              | 24.63      | < 30.00     |
| 349000                                                         | 1745.0          | 10                      | 1       | 0         | 23.01              | 24.48      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 23.04              | 24.51      | < 30.00     |
|                                                                |                 |                         | 25      | 12        | 23.04              | 24.51      | < 30.00     |
|                                                                |                 |                         | 50      | 0         | 23.13              | 24.60      | < 30.00     |
| 355000                                                         | 1775.0          | 10                      | 1       | 0         | 23.16              | 24.63      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 23.21              | 24.68      | < 30.00     |
|                                                                |                 |                         | 25      | 12        | 23.15              | 24.62      | < 30.00     |
|                                                                |                 |                         | 50      | 0         | 23.12              | 24.59      | < 30.00     |
| Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) |                 |                         |         |           |                    |            |             |

| Channel No.                                                    | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | EIRP (dBm) | Limit (dBm) |
|----------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|------------|-------------|
| PI/2 BPSK                                                      |                 |                         |         |           |                    |            |             |
| 343500                                                         | 1717.5          | 15                      | 1       | 0         | 23.37              | 24.84      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 23.26              | 24.73      | < 30.00     |
|                                                                |                 |                         | 36      | 18        | 23.15              | 24.62      | < 30.00     |
|                                                                |                 |                         | 75      | 0         | 23.31              | 24.78      | < 30.00     |
| 349000                                                         | 1745.0          | 15                      | 1       | 0         | 23.04              | 24.51      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 23.07              | 24.54      | < 30.00     |
|                                                                |                 |                         | 36      | 18        | 22.01              | 23.48      | < 30.00     |
|                                                                |                 |                         | 75      | 0         | 23.02              | 24.49      | < 30.00     |
| 354500                                                         | 1772.5          | 15                      | 1       | 0         | 23.11              | 24.58      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 23.19              | 24.66      | < 30.00     |
|                                                                |                 |                         | 36      | 18        | 23.15              | 24.62      | < 30.00     |
|                                                                |                 |                         | 75      | 0         | 23.22              | 24.69      | < 30.00     |
| 344000                                                         | 1720.0          | 20                      | 1       | 0         | 23.20              | 24.67      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 23.22              | 24.69      | < 30.00     |
|                                                                |                 |                         | 50      | 25        | 23.43              | 24.90      | < 30.00     |
|                                                                |                 |                         | 100     | 0         | 23.40              | 24.87      | < 30.00     |
| 349000                                                         | 1745.0          | 20                      | 1       | 0         | 23.12              | 24.59      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 23.12              | 24.59      | < 30.00     |
|                                                                |                 |                         | 50      | 25        | 23.01              | 24.48      | < 30.00     |
|                                                                |                 |                         | 100     | 0         | 23.16              | 24.63      | < 30.00     |
| 354000                                                         | 1770.0          | 20                      | 1       | 0         | 23.15              | 24.62      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 23.12              | 24.59      | < 30.00     |
|                                                                |                 |                         | 50      | 25        | 23.08              | 24.55      | < 30.00     |
|                                                                |                 |                         | 100     | 0         | 23.11              | 24.58      | < 30.00     |
| Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) |                 |                         |         |           |                    |            |             |

|               |                         |           |                         |
|---------------|-------------------------|-----------|-------------------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6                  |
| Test Engineer | Cloud Guo               | Test Date | 2020/12/09 ~ 2020/12/30 |
| Test Band     | n71_SA                  |           |                         |

| Channel No.                                                          | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | ERP (dBm) | Limit (dBm) |
|----------------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|-----------|-------------|
| PI/2 BPSK                                                            |                 |                         |         |           |                    |           |             |
| 133100                                                               | 665.5           | 5                       | 1       | 0         | 22.77              | 21.84     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.04              | 22.11     | < 34.77     |
|                                                                      |                 |                         | 12      | 6         | 22.94              | 22.01     | < 34.77     |
|                                                                      |                 |                         | 25      | 0         | 22.93              | 22.00     | < 34.77     |
| 136100                                                               | 680.5           | 5                       | 1       | 0         | 22.81              | 21.88     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 22.86              | 21.93     | < 34.77     |
|                                                                      |                 |                         | 12      | 6         | 22.82              | 21.89     | < 34.77     |
|                                                                      |                 |                         | 25      | 0         | 22.83              | 21.90     | < 34.77     |
| 139100                                                               | 695.5           | 5                       | 1       | 0         | 22.63              | 21.70     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 22.71              | 21.78     | < 34.77     |
|                                                                      |                 |                         | 12      | 6         | 22.64              | 21.71     | < 34.77     |
|                                                                      |                 |                         | 25      | 0         | 22.72              | 21.79     | < 34.77     |
| 133600                                                               | 668.0           | 10                      | 1       | 0         | 23.16              | 22.23     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.98              | 23.05     | < 34.77     |
|                                                                      |                 |                         | 25      | 12        | 23.95              | 23.02     | < 34.77     |
|                                                                      |                 |                         | 50      | 0         | 23.02              | 22.09     | < 34.77     |
| 136100                                                               | 680.5           | 10                      | 1       | 0         | 23.40              | 22.47     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.60              | 22.67     | < 34.77     |
|                                                                      |                 |                         | 25      | 12        | 24.03              | 23.10     | < 34.77     |
|                                                                      |                 |                         | 50      | 0         | 23.42              | 22.49     | < 34.77     |
| 138600                                                               | 693.0           | 10                      | 1       | 0         | 22.76              | 21.83     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 22.83              | 21.90     | < 34.77     |
|                                                                      |                 |                         | 25      | 12        | 22.72              | 21.79     | < 34.77     |
|                                                                      |                 |                         | 50      | 0         | 22.71              | 21.78     | < 34.77     |
| Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15 |                 |                         |         |           |                    |           |             |



| Channel No.                                                          | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | ERP (dBm) | Limit (dBm) |
|----------------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|-----------|-------------|
| PI/2 BPSK                                                            |                 |                         |         |           |                    |           |             |
| 134100                                                               | 670.5           | 15                      | 1       | 0         | 23.05              | 22.12     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.23              | 22.30     | < 34.77     |
|                                                                      |                 |                         | 36      | 18        | 23.00              | 22.07     | < 34.77     |
|                                                                      |                 |                         | 75      | 0         | 23.02              | 22.09     | < 34.77     |
| 136100                                                               | 680.5           | 15                      | 1       | 0         | 22.85              | 21.92     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.00              | 22.07     | < 34.77     |
|                                                                      |                 |                         | 36      | 18        | 22.90              | 21.97     | < 34.77     |
|                                                                      |                 |                         | 75      | 0         | 22.83              | 21.90     | < 34.77     |
| 138100                                                               | 690.5           | 15                      | 1       | 0         | 22.81              | 21.88     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 22.90              | 21.97     | < 34.77     |
|                                                                      |                 |                         | 36      | 18        | 22.74              | 21.81     | < 34.77     |
|                                                                      |                 |                         | 75      | 0         | 22.73              | 21.80     | < 34.77     |
| 134600                                                               | 673.0           | 20                      | 1       | 0         | 23.08              | 22.15     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.21              | 22.28     | < 34.77     |
|                                                                      |                 |                         | 50      | 25        | 22.87              | 21.94     | < 34.77     |
|                                                                      |                 |                         | 100     | 0         | 23.02              | 22.09     | < 34.77     |
| 136100                                                               | 680.5           | 20                      | 1       | 0         | 22.94              | 22.01     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 22.93              | 22.00     | < 34.77     |
|                                                                      |                 |                         | 50      | 25        | 22.88              | 21.95     | < 34.77     |
|                                                                      |                 |                         | 100     | 0         | 22.83              | 21.90     | < 34.77     |
| 137600                                                               | 688.0           | 20                      | 1       | 0         | 22.89              | 21.96     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 22.88              | 21.95     | < 34.77     |
|                                                                      |                 |                         | 50      | 25        | 22.91              | 21.98     | < 34.77     |
|                                                                      |                 |                         | 100     | 0         | 22.80              | 21.87     | < 34.77     |
| Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15 |                 |                         |         |           |                    |           |             |

|               |                         |           |                         |
|---------------|-------------------------|-----------|-------------------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6                  |
| Test Engineer | Cloud Guo               | Test Date | 2020/12/09 ~ 2020/12/30 |
| Test Band     | n41_SA                  |           |                         |

| Channel No.                                                    | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | EIRP (dBm) | Limit (dBm) |
|----------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|------------|-------------|
| PI/2 BPSK                                                      |                 |                         |         |           |                    |            |             |
| 501204                                                         | 2506.02         | 20                      | 1       | 0         | 22.52              | 23.30      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 21.99              | 22.77      | < 33.01     |
|                                                                |                 |                         | 25      | 12        | 22.49              | 23.27      | < 33.01     |
|                                                                |                 |                         | 50      | 0         | 22.51              | 23.29      | < 33.01     |
| 518598                                                         | 2592.99         | 20                      | 1       | 0         | 22.39              | 23.17      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.18              | 22.96      | < 33.01     |
|                                                                |                 |                         | 25      | 12        | 22.26              | 23.04      | < 33.01     |
|                                                                |                 |                         | 50      | 0         | 22.51              | 23.29      | < 33.01     |
| 535998                                                         | 2679.99         | 20                      | 1       | 0         | 22.21              | 22.99      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.77              | 23.55      | < 33.01     |
|                                                                |                 |                         | 25      | 12        | 22.59              | 23.37      | < 33.01     |
|                                                                |                 |                         | 50      | 0         | 22.59              | 23.37      | < 33.01     |
| 502200                                                         | 2511.0          | 30                      | 1       | 0         | 22.92              | 23.70      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.42              | 23.20      | < 33.01     |
|                                                                |                 |                         | 36      | 18        | 22.35              | 23.13      | < 33.01     |
|                                                                |                 |                         | 75      | 0         | 22.40              | 23.18      | < 33.01     |
| 518598                                                         | 2592.99         | 30                      | 1       | 0         | 22.67              | 23.45      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.38              | 23.16      | < 33.01     |
|                                                                |                 |                         | 36      | 18        | 22.20              | 22.98      | < 33.01     |
|                                                                |                 |                         | 75      | 0         | 22.28              | 23.06      | < 33.01     |
| 534996                                                         | 2674.98         | 30                      | 1       | 0         | 22.90              | 23.68      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.12              | 22.90      | < 33.01     |
|                                                                |                 |                         | 36      | 18        | 21.96              | 22.74      | < 33.01     |
|                                                                |                 |                         | 75      | 0         | 22.29              | 23.07      | < 33.01     |
| Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) |                 |                         |         |           |                    |            |             |

| Channel No.                                                    | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | EIRP (dBm) | Limit (dBm) |
|----------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|------------|-------------|
| PI/2 BPSK                                                      |                 |                         |         |           |                    |            |             |
| 503202                                                         | 2516.01         | 40                      | 1       | 0         | 22.70              | 23.48      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.20              | 22.98      | < 33.01     |
|                                                                |                 |                         | 50      | 25        | 22.88              | 23.66      | < 33.01     |
|                                                                |                 |                         | 100     | 0         | 22.09              | 22.87      | < 33.01     |
| 518598                                                         | 2592.99         | 40                      | 1       | 0         | 22.75              | 23.53      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.25              | 23.03      | < 33.01     |
|                                                                |                 |                         | 50      | 25        | 22.60              | 23.38      | < 33.01     |
|                                                                |                 |                         | 100     | 0         | 22.43              | 23.21      | < 33.01     |
| 534000                                                         | 2670.0          | 40                      | 1       | 0         | 22.83              | 23.61      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.19              | 22.97      | < 33.01     |
|                                                                |                 |                         | 50      | 25        | 22.55              | 23.33      | < 33.01     |
|                                                                |                 |                         | 100     | 0         | 22.55              | 23.33      | < 33.01     |
| 504204                                                         | 2521.02         | 50                      | 1       | 0         | 22.71              | 23.49      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.22              | 23.00      | < 33.01     |
|                                                                |                 |                         | 64      | 32        | 22.03              | 22.81      | < 33.01     |
|                                                                |                 |                         | 128     | 0         | 22.07              | 22.85      | < 33.01     |
| 518598                                                         | 2592.99         | 50                      | 1       | 0         | 22.45              | 23.23      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 21.92              | 22.70      | < 33.01     |
|                                                                |                 |                         | 64      | 32        | 22.03              | 22.81      | < 33.01     |
|                                                                |                 |                         | 128     | 0         | 22.31              | 23.09      | < 33.01     |
| 532998                                                         | 2664.99         | 50                      | 1       | 0         | 22.24              | 23.02      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.07              | 22.85      | < 33.01     |
|                                                                |                 |                         | 64      | 32        | 22.14              | 22.92      | < 33.01     |
|                                                                |                 |                         | 128     | 0         | 22.15              | 22.93      | < 33.01     |
| Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) |                 |                         |         |           |                    |            |             |

| Channel No.                                                    | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | EIRP (dBm) | Limit (dBm) |
|----------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|------------|-------------|
| PI/2 BPSK                                                      |                 |                         |         |           |                    |            |             |
| 505200                                                         | 2526.0          | 60                      | 1       | 0         | 22.33              | 23.11      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.78              | 23.56      | < 33.01     |
|                                                                |                 |                         | 81      | 40        | 22.96              | 23.74      | < 33.01     |
|                                                                |                 |                         | 162     | 0         | 22.16              | 22.94      | < 33.01     |
| 518598                                                         | 2592.99         | 60                      | 1       | 0         | 22.48              | 23.26      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 21.94              | 22.72      | < 33.01     |
|                                                                |                 |                         | 81      | 40        | 22.21              | 22.99      | < 33.01     |
|                                                                |                 |                         | 162     | 0         | 22.15              | 22.93      | < 33.01     |
| 531996                                                         | 2659.98         | 60                      | 1       | 0         | 22.21              | 22.99      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.62              | 23.40      | < 33.01     |
|                                                                |                 |                         | 81      | 40        | 22.28              | 23.06      | < 33.01     |
|                                                                |                 |                         | 162     | 0         | 22.37              | 23.15      | < 33.01     |
| 507204                                                         | 2536.02         | 80                      | 1       | 0         | 23.01              | 23.79      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.93              | 23.71      | < 33.01     |
|                                                                |                 |                         | 108     | 54        | 23.24              | 24.02      | < 33.01     |
|                                                                |                 |                         | 216     | 0         | 22.21              | 22.99      | < 33.01     |
| 518598                                                         | 2592.99         | 80                      | 1       | 0         | 22.04              | 22.82      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.56              | 23.34      | < 33.01     |
|                                                                |                 |                         | 108     | 54        | 22.21              | 22.99      | < 33.01     |
|                                                                |                 |                         | 216     | 0         | 22.34              | 23.12      | < 33.01     |
| 529998                                                         | 2649.99         | 80                      | 1       | 0         | 23.23              | 24.01      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.76              | 23.54      | < 33.01     |
|                                                                |                 |                         | 108     | 54        | 22.54              | 23.32      | < 33.01     |
|                                                                |                 |                         | 216     | 0         | 22.51              | 23.29      | < 33.01     |
| Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) |                 |                         |         |           |                    |            |             |

| Channel No.                                                    | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | EIRP (dBm) | Limit (dBm) |
|----------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|------------|-------------|
| PI/2 BPSK                                                      |                 |                         |         |           |                    |            |             |
| 509202                                                         | 2546.01         | 100                     | 1       | 0         | 22.83              | 23.61      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.84              | 23.62      | < 33.01     |
|                                                                |                 |                         | 135     | 67        | 22.91              | 23.69      | < 33.01     |
|                                                                |                 |                         | 270     | 0         | 22.69              | 23.47      | < 33.01     |
| 518598                                                         | 2592.99         | 100                     | 1       | 0         | 22.75              | 23.53      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.57              | 23.35      | < 33.01     |
|                                                                |                 |                         | 135     | 67        | 22.73              | 23.51      | < 33.01     |
|                                                                |                 |                         | 270     | 0         | 22.44              | 23.22      | < 33.01     |
| 528000                                                         | 2640.0          | 100                     | 1       | 0         | 23.03              | 23.81      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 23.10              | 23.88      | < 33.01     |
|                                                                |                 |                         | 135     | 67        | 23.25              | 24.03      | < 33.01     |
|                                                                |                 |                         | 270     | 0         | 23.23              | 24.01      | < 33.01     |
| Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) |                 |                         |         |           |                    |            |             |

|               |                         |           |                         |
|---------------|-------------------------|-----------|-------------------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6                  |
| Test Engineer | Cloud Guo               | Test Date | 2020/12/09 ~ 2020/12/30 |
| Test Band     | n41_SA_HPUE             |           |                         |

| Channel No.                                                    | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | EIRP (dBm) | Limit (dBm) |
|----------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|------------|-------------|
| PI/2 BPSK                                                      |                 |                         |         |           |                    |            |             |
| 501204                                                         | 2506.02         | 20                      | 1       | 0         | 24.95              | 25.73      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 25.95              | 26.73      | < 33.01     |
|                                                                |                 |                         | 25      | 12        | 25.99              | 26.77      | < 33.01     |
|                                                                |                 |                         | 50      | 0         | 24.97              | 25.75      | < 33.01     |
| 518598                                                         | 2592.99         | 20                      | 1       | 0         | 24.42              | 25.20      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 26.20              | 26.98      | < 33.01     |
|                                                                |                 |                         | 25      | 12        | 26.35              | 27.13      | < 33.01     |
|                                                                |                 |                         | 50      | 0         | 25.50              | 26.28      | < 33.01     |
| 535998                                                         | 2679.99         | 20                      | 1       | 0         | 25.01              | 25.79      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 25.55              | 26.33      | < 33.01     |
|                                                                |                 |                         | 25      | 12        | 25.42              | 26.20      | < 33.01     |
|                                                                |                 |                         | 50      | 0         | 25.44              | 26.22      | < 33.01     |
| 502200                                                         | 2511.0          | 30                      | 1       | 0         | 24.92              | 25.70      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 25.20              | 25.98      | < 33.01     |
|                                                                |                 |                         | 36      | 18        | 25.28              | 26.06      | < 33.01     |
|                                                                |                 |                         | 75      | 0         | 25.79              | 26.57      | < 33.01     |
| 518598                                                         | 2592.99         | 30                      | 1       | 0         | 24.20              | 24.98      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 25.01              | 25.79      | < 33.01     |
|                                                                |                 |                         | 36      | 18        | 24.92              | 25.70      | < 33.01     |
|                                                                |                 |                         | 75      | 0         | 24.87              | 25.65      | < 33.01     |
| 534996                                                         | 2674.98         | 30                      | 1       | 0         | 24.78              | 25.56      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 24.54              | 25.32      | < 33.01     |
|                                                                |                 |                         | 36      | 18        | 24.75              | 25.53      | < 33.01     |
|                                                                |                 |                         | 75      | 0         | 24.93              | 25.71      | < 33.01     |
| Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) |                 |                         |         |           |                    |            |             |

| Channel No.                                                    | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | EIRP (dBm) | Limit (dBm) |
|----------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|------------|-------------|
| PI/2 BPSK                                                      |                 |                         |         |           |                    |            |             |
| 503202                                                         | 2516.01         | 40                      | 1       | 0         | 25.15              | 25.93      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 26.28              | 27.06      | < 33.01     |
|                                                                |                 |                         | 50      | 25        | 26.11              | 26.89      | < 33.01     |
|                                                                |                 |                         | 100     | 0         | 25.15              | 25.93      | < 33.01     |
| 518598                                                         | 2592.99         | 40                      | 1       | 0         | 24.59              | 25.37      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 26.07              | 26.85      | < 33.01     |
|                                                                |                 |                         | 50      | 25        | 26.25              | 27.03      | < 33.01     |
|                                                                |                 |                         | 100     | 0         | 25.58              | 26.36      | < 33.01     |
| 534000                                                         | 2670.0          | 40                      | 1       | 0         | 24.42              | 25.20      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 26.35              | 27.13      | < 33.01     |
|                                                                |                 |                         | 50      | 25        | 25.51              | 26.29      | < 33.01     |
|                                                                |                 |                         | 100     | 0         | 24.99              | 25.77      | < 33.01     |
| 504204                                                         | 2521.02         | 50                      | 1       | 0         | 24.68              | 25.46      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 25.32              | 26.10      | < 33.01     |
|                                                                |                 |                         | 64      | 32        | 25.24              | 26.02      | < 33.01     |
|                                                                |                 |                         | 128     | 0         | 24.84              | 25.62      | < 33.01     |
| 518598                                                         | 2592.99         | 50                      | 1       | 0         | 24.81              | 25.59      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 25.60              | 26.38      | < 33.01     |
|                                                                |                 |                         | 64      | 32        | 25.65              | 26.43      | < 33.01     |
|                                                                |                 |                         | 128     | 0         | 25.70              | 26.48      | < 33.01     |
| 532998                                                         | 2664.99         | 50                      | 1       | 0         | 24.76              | 25.54      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 25.27              | 26.05      | < 33.01     |
|                                                                |                 |                         | 64      | 32        | 26.09              | 26.87      | < 33.01     |
|                                                                |                 |                         | 128     | 0         | 26.15              | 26.93      | < 33.01     |
| Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) |                 |                         |         |           |                    |            |             |

| Channel No.                                                    | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | EIRP (dBm) | Limit (dBm) |
|----------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|------------|-------------|
| PI/2 BPSK                                                      |                 |                         |         |           |                    |            |             |
| 505200                                                         | 2526.0          | 60                      | 1       | 0         | 24.78              | 25.56      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 25.83              | 26.61      | < 33.01     |
|                                                                |                 |                         | 81      | 40        | 25.89              | 26.67      | < 33.01     |
|                                                                |                 |                         | 162     | 0         | 24.94              | 25.72      | < 33.01     |
| 518598                                                         | 2592.99         | 60                      | 1       | 0         | 24.95              | 25.73      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 26.22              | 27.00      | < 33.01     |
|                                                                |                 |                         | 81      | 40        | 26.45              | 27.23      | < 33.01     |
|                                                                |                 |                         | 162     | 0         | 25.43              | 26.21      | < 33.01     |
| 531996                                                         | 2659.98         | 60                      | 1       | 0         | 24.46              | 25.24      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 26.23              | 27.01      | < 33.01     |
|                                                                |                 |                         | 81      | 40        | 25.90              | 26.68      | < 33.01     |
|                                                                |                 |                         | 162     | 0         | 24.94              | 25.72      | < 33.01     |
| 507204                                                         | 2536.02         | 80                      | 1       | 0         | 24.85              | 25.63      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 25.88              | 26.66      | < 33.01     |
|                                                                |                 |                         | 108     | 54        | 25.93              | 26.71      | < 33.01     |
|                                                                |                 |                         | 216     | 0         | 24.88              | 25.66      | < 33.01     |
| 518598                                                         | 2592.99         | 80                      | 1       | 0         | 24.26              | 25.04      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 26.20              | 26.98      | < 33.01     |
|                                                                |                 |                         | 108     | 54        | 26.35              | 27.13      | < 33.01     |
|                                                                |                 |                         | 216     | 0         | 25.35              | 26.13      | < 33.01     |
| 529998                                                         | 2649.99         | 80                      | 1       | 0         | 24.27              | 25.05      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 26.46              | 27.24      | < 33.01     |
|                                                                |                 |                         | 108     | 54        | 26.27              | 27.05      | < 33.01     |
|                                                                |                 |                         | 216     | 0         | 25.30              | 26.08      | < 33.01     |
| Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) |                 |                         |         |           |                    |            |             |



| Channel No.                                                    | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | EIRP (dBm) | Limit (dBm) |
|----------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|------------|-------------|
| PI/2 BPSK                                                      |                 |                         |         |           |                    |            |             |
| 509202                                                         | 2546.01         | 100                     | 1       | 0         | 24.69              | 25.47      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 25.91              | 26.69      | < 33.01     |
|                                                                |                 |                         | 135     | 67        | 26.05              | 26.83      | < 33.01     |
|                                                                |                 |                         | 270     | 0         | 25.13              | 25.91      | < 33.01     |
| 518598                                                         | 2592.99         | 100                     | 1       | 0         | 24.39              | 25.17      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 26.33              | 27.11      | < 33.01     |
|                                                                |                 |                         | 135     | 67        | 26.39              | 27.17      | < 33.01     |
|                                                                |                 |                         | 270     | 0         | 25.47              | 26.25      | < 33.01     |
| 528000                                                         | 2640.0          | 100                     | 1       | 0         | 24.54              | 25.32      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 26.24              | 27.02      | < 33.01     |
|                                                                |                 |                         | 135     | 67        | 26.32              | 27.10      | < 33.01     |
|                                                                |                 |                         | 270     | 0         | 25.36              | 26.14      | < 33.01     |
| Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) |                 |                         |         |           |                    |            |             |

|               |                         |           |                         |
|---------------|-------------------------|-----------|-------------------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6                  |
| Test Engineer | Cloud Guo               | Test Date | 2020/12/09 ~ 2020/12/30 |
| Test Band     | n77_SA                  |           |                         |

| Channel No.                                                    | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | EIRP (dBm) | Limit (dBm) |
|----------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|------------|-------------|
| PI/2 BPSK                                                      |                 |                         |         |           |                    |            |             |
| 750000                                                         | 3750.0          | 100                     | 1       | 0         | 22.33              | 18.22      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 22.45              | 18.34      | < 30.00     |
|                                                                |                 |                         | 135     | 67        | 23.21              | 19.10      | < 30.00     |
|                                                                |                 |                         | 270     | 0         | 23.04              | 18.93      | < 30.00     |
| 772998                                                         | 3864.99         | 100                     | 1       | 0         | 22.69              | 18.58      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 23.38              | 19.27      | < 30.00     |
|                                                                |                 |                         | 135     | 67        | 23.53              | 19.42      | < 30.00     |
|                                                                |                 |                         | 270     | 0         | 23.42              | 19.31      | < 30.00     |
| 786000                                                         | 3930.0          | 100                     | 1       | 0         | 22.91              | 18.80      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 23.54              | 19.43      | < 30.00     |
|                                                                |                 |                         | 135     | 67        | 23.23              | 19.12      | < 30.00     |
|                                                                |                 |                         | 270     | 0         | 23.31              | 19.20      | < 30.00     |
| Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) |                 |                         |         |           |                    |            |             |

|               |                         |           |                         |
|---------------|-------------------------|-----------|-------------------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6                  |
| Test Engineer | Cloud Guo               | Test Date | 2020/12/09 ~ 2020/12/30 |
| Test Band     | n77_SA_HPUE             |           |                         |

| Channel No.                                                    | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | EIRP (dBm) | Limit (dBm) |
|----------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|------------|-------------|
| PI/2 BPSK                                                      |                 |                         |         |           |                    |            |             |
| 750000                                                         | 3750.0          | 100                     | 1       | 0         | 24.32              | 20.21      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 25.16              | 21.05      | < 30.00     |
|                                                                |                 |                         | 135     | 67        | 25.78              | 21.67      | < 30.00     |
|                                                                |                 |                         | 270     | 0         | 24.72              | 20.61      | < 30.00     |
| 772998                                                         | 3864.99         | 100                     | 1       | 0         | 24.24              | 20.13      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 25.87              | 21.76      | < 30.00     |
|                                                                |                 |                         | 135     | 67        | 26.15              | 22.04      | < 30.00     |
|                                                                |                 |                         | 270     | 0         | 25.12              | 21.01      | < 30.00     |
| 786000                                                         | 3930.0          | 100                     | 1       | 0         | 24.43              | 20.32      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 26.00              | 21.89      | < 30.00     |
|                                                                |                 |                         | 135     | 67        | 26.00              | 21.89      | < 30.00     |
|                                                                |                 |                         | 270     | 0         | 25.02              | 20.91      | < 30.00     |
| Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) |                 |                         |         |           |                    |            |             |

|               |                         |           |                         |
|---------------|-------------------------|-----------|-------------------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6                  |
| Test Engineer | Eric Xu                 | Test Date | 2020/12/09 ~ 2020/12/30 |
| Test Band     | n2/25_EN-DC             |           |                         |

| Channel No.                                                    | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | EIRP (dBm) | Limit (dBm) |
|----------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|------------|-------------|
| PI/2 BPSK                                                      |                 |                         |         |           |                    |            |             |
| 370500                                                         | 1852.5          | 5                       | 1       | 0         | 22.70              | 22.95      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.63              | 22.88      | < 33.01     |
|                                                                |                 |                         | 12      | 6         | 22.76              | 23.01      | < 33.01     |
|                                                                |                 |                         | 25      | 0         | 22.88              | 23.13      | < 33.01     |
| 376500                                                         | 1882.5          | 5                       | 1       | 0         | 22.85              | 23.10      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.77              | 23.02      | < 33.01     |
|                                                                |                 |                         | 12      | 6         | 22.74              | 22.99      | < 33.01     |
|                                                                |                 |                         | 25      | 0         | 22.88              | 23.13      | < 33.01     |
| 382500                                                         | 1912.5          | 5                       | 1       | 0         | 22.71              | 22.96      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.65              | 22.90      | < 33.01     |
|                                                                |                 |                         | 12      | 6         | 22.65              | 22.90      | < 33.01     |
|                                                                |                 |                         | 25      | 0         | 22.78              | 23.03      | < 33.01     |
| 371000                                                         | 1855.0          | 10                      | 1       | 0         | 22.68              | 22.93      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.63              | 22.88      | < 33.01     |
|                                                                |                 |                         | 25      | 12        | 22.76              | 23.01      | < 33.01     |
|                                                                |                 |                         | 50      | 0         | 22.70              | 22.95      | < 33.01     |
| 376500                                                         | 1882.5          | 10                      | 1       | 0         | 22.59              | 22.84      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.52              | 22.77      | < 33.01     |
|                                                                |                 |                         | 25      | 12        | 22.62              | 22.87      | < 33.01     |
|                                                                |                 |                         | 50      | 0         | 22.65              | 22.90      | < 33.01     |
| 382000                                                         | 1910.0          | 10                      | 1       | 0         | 22.55              | 22.80      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.38              | 22.63      | < 33.01     |
|                                                                |                 |                         | 25      | 12        | 22.29              | 22.54      | < 33.01     |
|                                                                |                 |                         | 50      | 0         | 22.05              | 22.30      | < 33.01     |
| Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) |                 |                         |         |           |                    |            |             |

| Channel No.                                                    | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | EIRP (dBm) | Limit (dBm) |
|----------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|------------|-------------|
| PI/2 BPSK                                                      |                 |                         |         |           |                    |            |             |
| 371500                                                         | 1857.5          | 15                      | 1       | 0         | 22.98              | 23.23      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.92              | 23.17      | < 33.01     |
|                                                                |                 |                         | 36      | 18        | 22.89              | 23.14      | < 33.01     |
|                                                                |                 |                         | 75      | 0         | 22.87              | 23.12      | < 33.01     |
| 376500                                                         | 1882.5          | 15                      | 1       | 0         | 22.62              | 22.87      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.63              | 22.88      | < 33.01     |
|                                                                |                 |                         | 36      | 18        | 22.80              | 23.05      | < 33.01     |
|                                                                |                 |                         | 75      | 0         | 22.71              | 22.96      | < 33.01     |
| 381500                                                         | 1907.5          | 15                      | 1       | 0         | 22.78              | 23.03      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.62              | 22.87      | < 33.01     |
|                                                                |                 |                         | 36      | 18        | 22.76              | 23.01      | < 33.01     |
|                                                                |                 |                         | 75      | 0         | 22.72              | 22.97      | < 33.01     |
| 372000                                                         | 1860.0          | 20                      | 1       | 0         | 22.50              | 22.75      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.53              | 22.78      | < 33.01     |
|                                                                |                 |                         | 50      | 25        | 22.25              | 22.50      | < 33.01     |
|                                                                |                 |                         | 100     | 0         | 22.51              | 22.76      | < 33.01     |
| 376500                                                         | 1882.5          | 20                      | 1       | 0         | 22.75              | 23.00      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.50              | 22.75      | < 33.01     |
|                                                                |                 |                         | 50      | 25        | 22.69              | 22.94      | < 33.01     |
|                                                                |                 |                         | 100     | 0         | 22.83              | 23.08      | < 33.01     |
| 381000                                                         | 1905.0          | 20                      | 1       | 0         | 22.80              | 23.05      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.82              | 23.07      | < 33.01     |
|                                                                |                 |                         | 50      | 25        | 22.58              | 22.83      | < 33.01     |
|                                                                |                 |                         | 100     | 0         | 22.50              | 22.75      | < 33.01     |
| Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) |                 |                         |         |           |                    |            |             |

|               |                         |           |                         |
|---------------|-------------------------|-----------|-------------------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6                  |
| Test Engineer | Eric Xu                 | Test Date | 2020/12/09 ~ 2020/12/30 |
| Test Band     | n5_EN-DC                |           |                         |

| Channel No.                                                          | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | ERP (dBm) | Limit (dBm) |
|----------------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|-----------|-------------|
| PI/2 BPSK                                                            |                 |                         |         |           |                    |           |             |
| 165300                                                               | 826.5           | 5                       | 1       | 0         | 22.96              | 23.49     | < 38.45     |
|                                                                      |                 |                         | 1       | 1         | 22.74              | 23.27     | < 38.45     |
|                                                                      |                 |                         | 12      | 6         | 22.59              | 23.12     | < 38.45     |
|                                                                      |                 |                         | 25      | 0         | 22.97              | 23.50     | < 38.45     |
| 167300                                                               | 836.5           | 5                       | 1       | 0         | 22.45              | 22.98     | < 38.45     |
|                                                                      |                 |                         | 1       | 1         | 22.95              | 23.48     | < 38.45     |
|                                                                      |                 |                         | 12      | 6         | 22.54              | 23.07     | < 38.45     |
|                                                                      |                 |                         | 25      | 0         | 23.01              | 23.54     | < 38.45     |
| 169300                                                               | 846.5           | 5                       | 1       | 0         | 22.39              | 22.92     | < 38.45     |
|                                                                      |                 |                         | 1       | 1         | 22.86              | 23.39     | < 38.45     |
|                                                                      |                 |                         | 12      | 6         | 22.29              | 22.82     | < 38.45     |
|                                                                      |                 |                         | 25      | 0         | 23.15              | 23.68     | < 38.45     |
| 165800                                                               | 829.0           | 10                      | 1       | 0         | 22.51              | 23.04     | < 38.45     |
|                                                                      |                 |                         | 1       | 1         | 22.59              | 23.12     | < 38.45     |
|                                                                      |                 |                         | 25      | 12        | 22.55              | 23.08     | < 38.45     |
|                                                                      |                 |                         | 50      | 0         | 22.03              | 22.56     | < 38.45     |
| 167300                                                               | 836.5           | 10                      | 1       | 0         | 22.54              | 23.07     | < 38.45     |
|                                                                      |                 |                         | 1       | 1         | 22.69              | 23.22     | < 38.45     |
|                                                                      |                 |                         | 25      | 12        | 22.53              | 23.06     | < 38.45     |
|                                                                      |                 |                         | 50      | 0         | 21.99              | 22.52     | < 38.45     |
| 168800                                                               | 844.0           | 10                      | 1       | 0         | 22.65              | 23.18     | < 38.45     |
|                                                                      |                 |                         | 1       | 1         | 22.29              | 22.82     | < 38.45     |
|                                                                      |                 |                         | 25      | 12        | 22.26              | 22.79     | < 38.45     |
|                                                                      |                 |                         | 50      | 0         | 21.85              | 22.38     | < 38.45     |
| Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15 |                 |                         |         |           |                    |           |             |

| Channel No.                                                          | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | ERP (dBm) | Limit (dBm) |
|----------------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|-----------|-------------|
| PI/2 BPSK                                                            |                 |                         |         |           |                    |           |             |
| 166300                                                               | 831.5           | 15                      | 1       | 0         | 22.72              | 23.25     | < 38.45     |
|                                                                      |                 |                         | 1       | 1         | 22.78              | 23.31     | < 38.45     |
|                                                                      |                 |                         | 36      | 18        | 22.54              | 23.07     | < 38.45     |
|                                                                      |                 |                         | 75      | 0         | 21.97              | 22.50     | < 38.45     |
| 167300                                                               | 836.5           | 15                      | 1       | 0         | 22.50              | 23.03     | < 38.45     |
|                                                                      |                 |                         | 1       | 1         | 22.69              | 23.22     | < 38.45     |
|                                                                      |                 |                         | 36      | 18        | 22.40              | 22.93     | < 38.45     |
|                                                                      |                 |                         | 75      | 0         | 21.68              | 22.21     | < 38.45     |
| 168300                                                               | 841.5           | 15                      | 1       | 0         | 22.45              | 22.98     | < 38.45     |
|                                                                      |                 |                         | 1       | 1         | 22.58              | 23.11     | < 38.45     |
|                                                                      |                 |                         | 36      | 18        | 22.32              | 22.85     | < 38.45     |
|                                                                      |                 |                         | 75      | 0         | 21.84              | 22.37     | < 38.45     |
| 166800                                                               | 834.0           | 20                      | 1       | 0         | 22.56              | 23.09     | < 38.45     |
|                                                                      |                 |                         | 1       | 1         | 22.97              | 23.50     | < 38.45     |
|                                                                      |                 |                         | 50      | 25        | 22.69              | 23.22     | < 38.45     |
|                                                                      |                 |                         | 100     | 0         | 22.29              | 22.82     | < 38.45     |
| 167300                                                               | 836.5           | 20                      | 1       | 0         | 22.62              | 23.15     | < 38.45     |
|                                                                      |                 |                         | 1       | 1         | 22.87              | 23.40     | < 38.45     |
|                                                                      |                 |                         | 50      | 25        | 22.42              | 22.95     | < 38.45     |
|                                                                      |                 |                         | 100     | 0         | 22.39              | 22.92     | < 38.45     |
| 167800                                                               | 839.0           | 20                      | 1       | 0         | 22.87              | 23.40     | < 38.45     |
|                                                                      |                 |                         | 1       | 1         | 22.72              | 23.25     | < 38.45     |
|                                                                      |                 |                         | 50      | 25        | 22.76              | 23.29     | < 38.45     |
|                                                                      |                 |                         | 100     | 0         | 22.30              | 22.83     | < 38.45     |
| Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15 |                 |                         |         |           |                    |           |             |

|               |                         |           |                         |
|---------------|-------------------------|-----------|-------------------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6                  |
| Test Engineer | Eric Xu                 | Test Date | 2020/12/09 ~ 2020/12/30 |
| Test Band     | n7_EN-DC                |           |                         |

| Channel No.                                                    | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | EIRP (dBm) | Limit (dBm) |
|----------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|------------|-------------|
| PI/2 BPSK                                                      |                 |                         |         |           |                    |            |             |
| 500500                                                         | 2502.5          | 5                       | 1       | 0         | 22.64              | 23.19      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.69              | 23.24      | < 33.01     |
|                                                                |                 |                         | 12      | 6         | 22.77              | 23.32      | < 33.01     |
|                                                                |                 |                         | 25      | 0         | 22.87              | 23.42      | < 33.01     |
| 507000                                                         | 2535.0          | 5                       | 1       | 0         | 22.36              | 22.91      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.48              | 23.03      | < 33.01     |
|                                                                |                 |                         | 12      | 6         | 22.63              | 23.18      | < 33.01     |
|                                                                |                 |                         | 25      | 0         | 22.53              | 23.08      | < 33.01     |
| 513500                                                         | 2567.5          | 5                       | 1       | 0         | 22.42              | 22.97      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.50              | 23.05      | < 33.01     |
|                                                                |                 |                         | 12      | 6         | 22.52              | 23.07      | < 33.01     |
|                                                                |                 |                         | 25      | 0         | 22.51              | 23.06      | < 33.01     |
| 501000                                                         | 2505.0          | 10                      | 1       | 0         | 22.65              | 23.20      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.76              | 23.31      | < 33.01     |
|                                                                |                 |                         | 25      | 12        | 22.79              | 23.34      | < 33.01     |
|                                                                |                 |                         | 50      | 0         | 22.80              | 23.35      | < 33.01     |
| 507000                                                         | 2535.0          | 10                      | 1       | 0         | 22.58              | 23.13      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.48              | 23.03      | < 33.01     |
|                                                                |                 |                         | 25      | 12        | 22.68              | 23.23      | < 33.01     |
|                                                                |                 |                         | 50      | 0         | 22.58              | 23.13      | < 33.01     |
| 513000                                                         | 2565.0          | 10                      | 1       | 0         | 22.43              | 22.98      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.54              | 23.09      | < 33.01     |
|                                                                |                 |                         | 25      | 12        | 22.66              | 23.21      | < 33.01     |
|                                                                |                 |                         | 50      | 0         | 22.46              | 23.01      | < 33.01     |
| Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) |                 |                         |         |           |                    |            |             |



| Channel No.                                                    | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | EIRP (dBm) | Limit (dBm) |
|----------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|------------|-------------|
| PI/2 BPSK                                                      |                 |                         |         |           |                    |            |             |
| 501500                                                         | 2507.5          | 15                      | 1       | 0         | 22.91              | 23.46      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 23.16              | 23.71      | < 33.01     |
|                                                                |                 |                         | 36      | 18        | 22.86              | 23.41      | < 33.01     |
|                                                                |                 |                         | 75      | 0         | 22.94              | 23.49      | < 33.01     |
| 507000                                                         | 2535.0          | 15                      | 1       | 0         | 22.60              | 23.15      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.57              | 23.12      | < 33.01     |
|                                                                |                 |                         | 36      | 18        | 22.58              | 23.13      | < 33.01     |
|                                                                |                 |                         | 75      | 0         | 22.73              | 23.28      | < 33.01     |
| 512500                                                         | 2562.5          | 15                      | 1       | 0         | 22.58              | 23.13      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.58              | 23.13      | < 33.01     |
|                                                                |                 |                         | 36      | 18        | 22.53              | 23.08      | < 33.01     |
|                                                                |                 |                         | 75      | 0         | 22.47              | 23.02      | < 33.01     |
| 502000                                                         | 2510.0          | 20                      | 1       | 0         | 22.85              | 23.40      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.96              | 23.51      | < 33.01     |
|                                                                |                 |                         | 50      | 25        | 22.85              | 23.40      | < 33.01     |
|                                                                |                 |                         | 100     | 0         | 22.80              | 23.35      | < 33.01     |
| 507000                                                         | 2535.0          | 20                      | 1       | 0         | 22.99              | 23.54      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 23.00              | 23.55      | < 33.01     |
|                                                                |                 |                         | 50      | 25        | 22.93              | 23.48      | < 33.01     |
|                                                                |                 |                         | 100     | 0         | 22.99              | 23.54      | < 33.01     |
| 512000                                                         | 2560.0          | 20                      | 1       | 0         | 22.90              | 23.45      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.86              | 23.41      | < 33.01     |
|                                                                |                 |                         | 50      | 25        | 22.81              | 23.36      | < 33.01     |
|                                                                |                 |                         | 100     | 0         | 22.87              | 23.42      | < 33.01     |
| Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) |                 |                         |         |           |                    |            |             |

|               |                         |           |                         |
|---------------|-------------------------|-----------|-------------------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6                  |
| Test Engineer | Eric Xu                 | Test Date | 2020/12/09 ~ 2020/12/30 |
| Test Band     | n12_EN-DC               |           |                         |

| Channel No.                                                          | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | ERP (dBm) | Limit (dBm) |
|----------------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|-----------|-------------|
| PI/2 BPSK                                                            |                 |                         |         |           |                    |           |             |
| 140300                                                               | 701.5           | 5                       | 1       | 0         | 23.12              | 20.77     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.06              | 20.71     | < 34.77     |
|                                                                      |                 |                         | 12      | 6         | 23.00              | 20.65     | < 34.77     |
|                                                                      |                 |                         | 25      | 0         | 23.14              | 20.79     | < 34.77     |
| 141500                                                               | 707.5           | 5                       | 1       | 0         | 22.97              | 20.62     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.02              | 20.67     | < 34.77     |
|                                                                      |                 |                         | 12      | 6         | 22.85              | 20.50     | < 34.77     |
|                                                                      |                 |                         | 25      | 0         | 22.96              | 20.61     | < 34.77     |
| 142700                                                               | 713.5           | 5                       | 1       | 0         | 22.95              | 20.60     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.08              | 20.73     | < 34.77     |
|                                                                      |                 |                         | 12      | 6         | 22.83              | 20.48     | < 34.77     |
|                                                                      |                 |                         | 25      | 0         | 22.93              | 20.58     | < 34.77     |
| 140800                                                               | 704.0           | 10                      | 1       | 0         | 23.18              | 20.83     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.20              | 20.85     | < 34.77     |
|                                                                      |                 |                         | 25      | 12        | 23.04              | 20.69     | < 34.77     |
|                                                                      |                 |                         | 50      | 0         | 22.96              | 20.61     | < 34.77     |
| 141500                                                               | 707.5           | 10                      | 1       | 0         | 22.96              | 20.61     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.10              | 20.75     | < 34.77     |
|                                                                      |                 |                         | 25      | 12        | 22.97              | 20.62     | < 34.77     |
|                                                                      |                 |                         | 50      | 0         | 23.03              | 20.68     | < 34.77     |
| 142200                                                               | 711.0           | 10                      | 1       | 0         | 22.52              | 20.17     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 22.65              | 20.30     | < 34.77     |
|                                                                      |                 |                         | 25      | 12        | 22.95              | 20.60     | < 34.77     |
|                                                                      |                 |                         | 50      | 0         | 22.66              | 20.31     | < 34.77     |
| Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15 |                 |                         |         |           |                    |           |             |

| Channel No.                                                          | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | ERP (dBm) | Limit (dBm) |
|----------------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|-----------|-------------|
| PI/2 BPSK                                                            |                 |                         |         |           |                    |           |             |
| 141300                                                               | 706.5           | 15                      | 1       | 0         | 23.17              | 20.82     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.21              | 20.86     | < 34.77     |
|                                                                      |                 |                         | 36      | 18        | 23.12              | 20.77     | < 34.77     |
|                                                                      |                 |                         | 75      | 0         | 23.12              | 20.77     | < 34.77     |
| 141500                                                               | 707.5           | 15                      | 1       | 0         | 23.10              | 20.75     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 22.82              | 20.47     | < 34.77     |
|                                                                      |                 |                         | 36      | 18        | 23.03              | 20.68     | < 34.77     |
|                                                                      |                 |                         | 75      | 0         | 22.93              | 20.58     | < 34.77     |
| 141700                                                               | 708.5           | 15                      | 1       | 0         | 23.12              | 20.77     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.14              | 20.79     | < 34.77     |
|                                                                      |                 |                         | 36      | 18        | 23.06              | 20.71     | < 34.77     |
|                                                                      |                 |                         | 75      | 0         | 23.03              | 20.68     | < 34.77     |
| Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15 |                 |                         |         |           |                    |           |             |

|               |                         |           |                         |
|---------------|-------------------------|-----------|-------------------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6                  |
| Test Engineer | Eric Xu                 | Test Date | 2020/12/09 ~ 2020/12/30 |
| Test Band     | n66_EN-DC               |           |                         |

| Channel No.                                                    | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | EIRP (dBm) | Limit (dBm) |
|----------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|------------|-------------|
| PI/2 BPSK                                                      |                 |                         |         |           |                    |            |             |
| 342500                                                         | 1712.5          | 5                       | 1       | 0         | 22.65              | 24.12      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 22.52              | 23.99      | < 30.00     |
|                                                                |                 |                         | 12      | 6         | 22.76              | 24.23      | < 30.00     |
|                                                                |                 |                         | 25      | 0         | 22.74              | 24.21      | < 30.00     |
| 349000                                                         | 1745.0          | 5                       | 1       | 0         | 22.58              | 24.05      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 22.56              | 24.03      | < 30.00     |
|                                                                |                 |                         | 12      | 6         | 22.80              | 24.27      | < 30.00     |
|                                                                |                 |                         | 25      | 0         | 22.82              | 24.29      | < 30.00     |
| 355500                                                         | 1777.5          | 5                       | 1       | 0         | 22.54              | 24.01      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 22.51              | 23.98      | < 30.00     |
|                                                                |                 |                         | 12      | 6         | 22.62              | 24.09      | < 30.00     |
|                                                                |                 |                         | 25      | 0         | 22.70              | 24.17      | < 30.00     |
| 343000                                                         | 1715.0          | 10                      | 1       | 0         | 22.54              | 24.01      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 22.59              | 24.06      | < 30.00     |
|                                                                |                 |                         | 25      | 12        | 22.84              | 24.31      | < 30.00     |
|                                                                |                 |                         | 50      | 0         | 22.78              | 24.25      | < 30.00     |
| 349000                                                         | 1745.0          | 10                      | 1       | 0         | 22.38              | 23.85      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 22.17              | 23.64      | < 30.00     |
|                                                                |                 |                         | 25      | 12        | 22.31              | 23.78      | < 30.00     |
|                                                                |                 |                         | 50      | 0         | 22.27              | 23.74      | < 30.00     |
| 355000                                                         | 1775.0          | 10                      | 1       | 0         | 22.83              | 24.30      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 22.60              | 24.07      | < 30.00     |
|                                                                |                 |                         | 25      | 12        | 22.68              | 24.15      | < 30.00     |
|                                                                |                 |                         | 50      | 0         | 22.66              | 24.13      | < 30.00     |
| Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) |                 |                         |         |           |                    |            |             |

| Channel No.                                                    | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | EIRP (dBm) | Limit (dBm) |
|----------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|------------|-------------|
| PI/2 BPSK                                                      |                 |                         |         |           |                    |            |             |
| 343500                                                         | 1717.5          | 15                      | 1       | 0         | 22.75              | 24.22      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 22.68              | 24.15      | < 30.00     |
|                                                                |                 |                         | 36      | 18        | 22.77              | 24.24      | < 30.00     |
|                                                                |                 |                         | 75      | 0         | 22.70              | 24.17      | < 30.00     |
| 349000                                                         | 1745.0          | 15                      | 1       | 0         | 22.62              | 24.09      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 22.70              | 24.17      | < 30.00     |
|                                                                |                 |                         | 36      | 18        | 22.62              | 24.09      | < 30.00     |
|                                                                |                 |                         | 75      | 0         | 22.68              | 24.15      | < 30.00     |
| 354500                                                         | 1772.5          | 15                      | 1       | 0         | 22.66              | 24.13      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 22.58              | 24.05      | < 30.00     |
|                                                                |                 |                         | 36      | 18        | 22.56              | 24.03      | < 30.00     |
|                                                                |                 |                         | 75      | 0         | 22.60              | 24.07      | < 30.00     |
| 344000                                                         | 1720.0          | 20                      | 1       | 0         | 22.83              | 24.30      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 22.78              | 24.25      | < 30.00     |
|                                                                |                 |                         | 50      | 25        | 22.67              | 24.14      | < 30.00     |
|                                                                |                 |                         | 100     | 0         | 22.75              | 24.22      | < 30.00     |
| 349000                                                         | 1745.0          | 20                      | 1       | 0         | 22.88              | 24.35      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 22.79              | 24.26      | < 30.00     |
|                                                                |                 |                         | 50      | 25        | 22.69              | 24.16      | < 30.00     |
|                                                                |                 |                         | 100     | 0         | 22.85              | 24.32      | < 30.00     |
| 354000                                                         | 1770.0          | 20                      | 1       | 0         | 22.73              | 24.20      | < 30.00     |
|                                                                |                 |                         | 1       | 1         | 22.67              | 24.14      | < 30.00     |
|                                                                |                 |                         | 50      | 25        | 22.78              | 24.25      | < 30.00     |
|                                                                |                 |                         | 100     | 0         | 22.74              | 24.21      | < 30.00     |
| Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) |                 |                         |         |           |                    |            |             |

|               |                         |           |                         |
|---------------|-------------------------|-----------|-------------------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6                  |
| Test Engineer | Eric Xu                 | Test Date | 2020/12/09 ~ 2020/12/30 |
| Test Band     | n71_EN-DC               |           |                         |

| Channel No.                                                          | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | ERP (dBm) | Limit (dBm) |
|----------------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|-----------|-------------|
| PI/2 BPSK                                                            |                 |                         |         |           |                    |           |             |
| 133100                                                               | 665.5           | 5                       | 1       | 0         | 23.28              | 22.35     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.23              | 22.30     | < 34.77     |
|                                                                      |                 |                         | 12      | 6         | 23.27              | 22.34     | < 34.77     |
|                                                                      |                 |                         | 25      | 0         | 23.24              | 22.31     | < 34.77     |
| 136100                                                               | 680.5           | 5                       | 1       | 0         | 23.15              | 22.22     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.14              | 22.21     | < 34.77     |
|                                                                      |                 |                         | 12      | 6         | 23.15              | 22.22     | < 34.77     |
|                                                                      |                 |                         | 25      | 0         | 23.11              | 22.18     | < 34.77     |
| 139100                                                               | 695.5           | 5                       | 1       | 0         | 23.00              | 22.07     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 22.97              | 22.04     | < 34.77     |
|                                                                      |                 |                         | 12      | 6         | 22.99              | 22.06     | < 34.77     |
|                                                                      |                 |                         | 25      | 0         | 22.94              | 22.01     | < 34.77     |
| 133600                                                               | 668.0           | 10                      | 1       | 0         | 23.38              | 22.45     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.30              | 22.37     | < 34.77     |
|                                                                      |                 |                         | 25      | 12        | 23.22              | 22.29     | < 34.77     |
|                                                                      |                 |                         | 50      | 0         | 23.29              | 22.36     | < 34.77     |
| 136100                                                               | 680.5           | 10                      | 1       | 0         | 23.13              | 22.20     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.04              | 22.11     | < 34.77     |
|                                                                      |                 |                         | 25      | 12        | 23.18              | 22.25     | < 34.77     |
|                                                                      |                 |                         | 50      | 0         | 23.15              | 22.22     | < 34.77     |
| 138600                                                               | 693.0           | 10                      | 1       | 0         | 22.96              | 22.03     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.02              | 22.09     | < 34.77     |
|                                                                      |                 |                         | 25      | 12        | 22.94              | 22.01     | < 34.77     |
|                                                                      |                 |                         | 50      | 0         | 22.97              | 22.04     | < 34.77     |
| Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15 |                 |                         |         |           |                    |           |             |

| Channel No.                                                          | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | ERP (dBm) | Limit (dBm) |
|----------------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|-----------|-------------|
| PI/2 BPSK                                                            |                 |                         |         |           |                    |           |             |
| 134100                                                               | 670.5           | 15                      | 1       | 0         | 23.43              | 22.50     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.40              | 22.47     | < 34.77     |
|                                                                      |                 |                         | 36      | 18        | 23.34              | 22.41     | < 34.77     |
|                                                                      |                 |                         | 75      | 0         | 23.31              | 22.38     | < 34.77     |
| 136100                                                               | 680.5           | 15                      | 1       | 0         | 23.26              | 22.33     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.14              | 22.21     | < 34.77     |
|                                                                      |                 |                         | 36      | 18        | 23.24              | 22.31     | < 34.77     |
|                                                                      |                 |                         | 75      | 0         | 23.14              | 22.21     | < 34.77     |
| 138100                                                               | 690.5           | 15                      | 1       | 0         | 23.05              | 22.12     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.10              | 22.17     | < 34.77     |
|                                                                      |                 |                         | 36      | 18        | 23.06              | 22.13     | < 34.77     |
|                                                                      |                 |                         | 75      | 0         | 23.01              | 22.08     | < 34.77     |
| 134600                                                               | 673.0           | 20                      | 1       | 0         | 23.43              | 22.50     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.45              | 22.52     | < 34.77     |
|                                                                      |                 |                         | 50      | 25        | 23.19              | 22.26     | < 34.77     |
|                                                                      |                 |                         | 100     | 0         | 23.21              | 22.28     | < 34.77     |
| 136100                                                               | 680.5           | 20                      | 1       | 0         | 23.19              | 22.26     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.28              | 22.35     | < 34.77     |
|                                                                      |                 |                         | 50      | 25        | 23.10              | 22.17     | < 34.77     |
|                                                                      |                 |                         | 100     | 0         | 23.13              | 22.20     | < 34.77     |
| 137600                                                               | 688.0           | 20                      | 1       | 0         | 23.19              | 22.26     | < 34.77     |
|                                                                      |                 |                         | 1       | 1         | 23.29              | 22.36     | < 34.77     |
|                                                                      |                 |                         | 50      | 25        | 23.08              | 22.15     | < 34.77     |
|                                                                      |                 |                         | 100     | 0         | 22.96              | 22.03     | < 34.77     |
| Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15 |                 |                         |         |           |                    |           |             |

|               |                         |           |                         |
|---------------|-------------------------|-----------|-------------------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6                  |
| Test Engineer | Eric Xu                 | Test Date | 2020/12/09 ~ 2020/12/30 |
| Test Band     | n41_EN-DC               |           |                         |

| Channel No.                                                    | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | EIRP (dBm) | Limit (dBm) |
|----------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|------------|-------------|
| PI/2 BPSK                                                      |                 |                         |         |           |                    |            |             |
| 501204                                                         | 2506.02         | 20                      | 1       | 0         | 22.52              | 23.30      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.97              | 23.75      | < 33.01     |
|                                                                |                 |                         | 25      | 12        | 22.95              | 23.73      | < 33.01     |
|                                                                |                 |                         | 50      | 0         | 22.91              | 23.69      | < 33.01     |
| 518598                                                         | 2592.99         | 20                      | 1       | 0         | 22.52              | 23.30      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.97              | 23.75      | < 33.01     |
|                                                                |                 |                         | 25      | 12        | 23.16              | 23.94      | < 33.01     |
|                                                                |                 |                         | 50      | 0         | 23.10              | 23.88      | < 33.01     |
| 535998                                                         | 2679.99         | 20                      | 1       | 0         | 22.29              | 23.07      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 23.01              | 23.79      | < 33.01     |
|                                                                |                 |                         | 25      | 12        | 22.92              | 23.70      | < 33.01     |
|                                                                |                 |                         | 50      | 0         | 22.89              | 23.67      | < 33.01     |
| 502200                                                         | 2511.0          | 30                      | 1       | 0         | 22.48              | 23.26      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.99              | 23.77      | < 33.01     |
|                                                                |                 |                         | 36      | 18        | 22.92              | 23.70      | < 33.01     |
|                                                                |                 |                         | 75      | 0         | 23.03              | 23.81      | < 33.01     |
| 518598                                                         | 2592.99         | 30                      | 1       | 0         | 22.83              | 23.61      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 23.31              | 24.09      | < 33.01     |
|                                                                |                 |                         | 36      | 18        | 23.33              | 24.11      | < 33.01     |
|                                                                |                 |                         | 75      | 0         | 23.39              | 24.17      | < 33.01     |
| 534996                                                         | 2674.98         | 30                      | 1       | 0         | 23.11              | 23.89      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 23.65              | 24.43      | < 33.01     |
|                                                                |                 |                         | 36      | 18        | 23.50              | 24.28      | < 33.01     |
|                                                                |                 |                         | 75      | 0         | 23.54              | 24.32      | < 33.01     |
| Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) |                 |                         |         |           |                    |            |             |



| Channel No.                                                    | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | EIRP (dBm) | Limit (dBm) |
|----------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|------------|-------------|
| PI/2 BPSK                                                      |                 |                         |         |           |                    |            |             |
| 503202                                                         | 2516.01         | 40                      | 1       | 0         | 22.48              | 23.26      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 23.02              | 23.80      | < 33.01     |
|                                                                |                 |                         | 50      | 25        | 22.94              | 23.72      | < 33.01     |
|                                                                |                 |                         | 100     | 0         | 23.00              | 23.78      | < 33.01     |
| 518598                                                         | 2592.99         | 40                      | 1       | 0         | 22.71              | 23.49      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 23.15              | 23.93      | < 33.01     |
|                                                                |                 |                         | 50      | 25        | 23.33              | 24.11      | < 33.01     |
|                                                                |                 |                         | 100     | 0         | 23.49              | 24.27      | < 33.01     |
| 534000                                                         | 2670.0          | 40                      | 1       | 0         | 23.04              | 23.82      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 23.57              | 24.35      | < 33.01     |
|                                                                |                 |                         | 50      | 25        | 23.45              | 24.23      | < 33.01     |
|                                                                |                 |                         | 100     | 0         | 23.52              | 24.30      | < 33.01     |
| 504204                                                         | 2521.02         | 50                      | 1       | 0         | 22.20              | 22.98      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.63              | 23.41      | < 33.01     |
|                                                                |                 |                         | 64      | 32        | 22.70              | 23.48      | < 33.01     |
|                                                                |                 |                         | 128     | 0         | 22.69              | 23.47      | < 33.01     |
| 518598                                                         | 2592.99         | 50                      | 1       | 0         | 22.32              | 23.10      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.86              | 23.64      | < 33.01     |
|                                                                |                 |                         | 64      | 32        | 23.03              | 23.81      | < 33.01     |
|                                                                |                 |                         | 128     | 0         | 23.04              | 23.82      | < 33.01     |
| 532998                                                         | 2664.99         | 50                      | 1       | 0         | 22.41              | 23.19      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 23.12              | 23.90      | < 33.01     |
|                                                                |                 |                         | 64      | 32        | 23.07              | 23.85      | < 33.01     |
|                                                                |                 |                         | 128     | 0         | 23.15              | 23.93      | < 33.01     |
| Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) |                 |                         |         |           |                    |            |             |

| Channel No.                                                    | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | EIRP (dBm) | Limit (dBm) |
|----------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|------------|-------------|
| PI/2 BPSK                                                      |                 |                         |         |           |                    |            |             |
| 505200                                                         | 2526.0          | 60                      | 1       | 0         | 22.10              | 22.88      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.61              | 23.39      | < 33.01     |
|                                                                |                 |                         | 81      | 40        | 22.80              | 23.58      | < 33.01     |
|                                                                |                 |                         | 162     | 0         | 22.83              | 23.61      | < 33.01     |
| 518598                                                         | 2592.99         | 60                      | 1       | 0         | 22.29              | 23.07      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.70              | 23.48      | < 33.01     |
|                                                                |                 |                         | 81      | 40        | 23.02              | 23.80      | < 33.01     |
|                                                                |                 |                         | 162     | 0         | 23.01              | 23.79      | < 33.01     |
| 531996                                                         | 2659.98         | 60                      | 1       | 0         | 22.64              | 23.42      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 23.15              | 23.93      | < 33.01     |
|                                                                |                 |                         | 81      | 40        | 23.20              | 23.98      | < 33.01     |
|                                                                |                 |                         | 162     | 0         | 23.20              | 23.98      | < 33.01     |
| 507204                                                         | 2536.02         | 80                      | 1       | 0         | 22.17              | 22.95      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.63              | 23.41      | < 33.01     |
|                                                                |                 |                         | 108     | 54        | 22.90              | 23.68      | < 33.01     |
|                                                                |                 |                         | 216     | 0         | 22.81              | 23.59      | < 33.01     |
| 518598                                                         | 2592.99         | 80                      | 1       | 0         | 22.31              | 23.09      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.71              | 23.49      | < 33.01     |
|                                                                |                 |                         | 108     | 54        | 23.28              | 24.06      | < 33.01     |
|                                                                |                 |                         | 216     | 0         | 23.16              | 23.94      | < 33.01     |
| 529998                                                         | 2649.99         | 80                      | 1       | 0         | 22.45              | 23.23      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.95              | 23.73      | < 33.01     |
|                                                                |                 |                         | 108     | 54        | 23.34              | 24.12      | < 33.01     |
|                                                                |                 |                         | 216     | 0         | 23.27              | 24.05      | < 33.01     |
| Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) |                 |                         |         |           |                    |            |             |

| Channel No.                                                    | Frequency (MHz) | Channel Bandwidth (MHz) | RB Size | RB Offset | Output Power (dBm) | EIRP (dBm) | Limit (dBm) |
|----------------------------------------------------------------|-----------------|-------------------------|---------|-----------|--------------------|------------|-------------|
| PI/2 BPSK                                                      |                 |                         |         |           |                    |            |             |
| 509202                                                         | 2546.01         | 100                     | 1       | 0         | 22.06              | 22.84      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.58              | 23.36      | < 33.01     |
|                                                                |                 |                         | 135     | 67        | 22.71              | 23.49      | < 33.01     |
|                                                                |                 |                         | 270     | 0         | 22.90              | 23.68      | < 33.01     |
| 518598                                                         | 2592.99         | 100                     | 1       | 0         | 22.35              | 23.13      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.85              | 23.63      | < 33.01     |
|                                                                |                 |                         | 135     | 67        | 23.06              | 23.84      | < 33.01     |
|                                                                |                 |                         | 270     | 0         | 23.17              | 23.95      | < 33.01     |
| 528000                                                         | 2640.0          | 100                     | 1       | 0         | 22.30              | 23.08      | < 33.01     |
|                                                                |                 |                         | 1       | 1         | 22.81              | 23.59      | < 33.01     |
|                                                                |                 |                         | 135     | 67        | 23.25              | 24.03      | < 33.01     |
|                                                                |                 |                         | 270     | 0         | 23.17              | 23.95      | < 33.01     |
| Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi) |                 |                         |         |           |                    |            |             |

### **5.3. Conducted Spurious Emissions**

#### **5.3.1. Test Limit**

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10<sup>th</sup> harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

For n7, n41 the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $55 + 10 \log(P)$  dB.

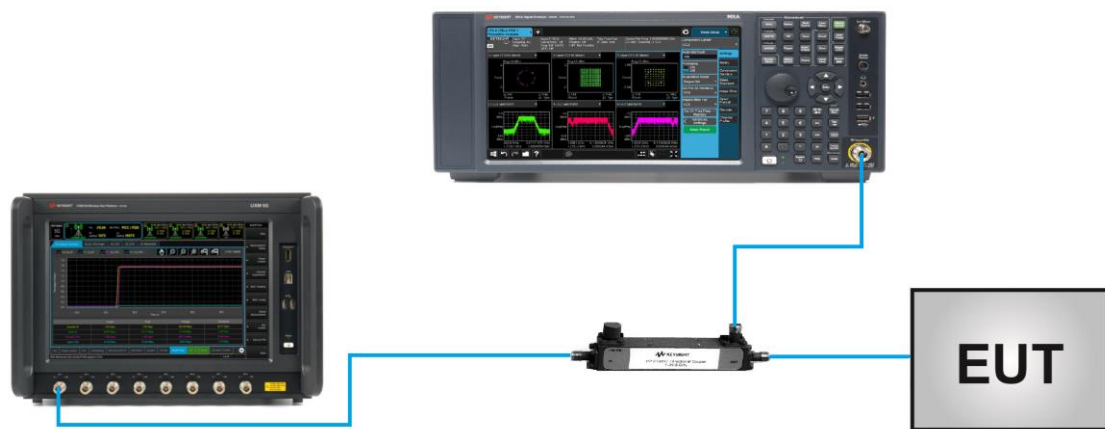
#### **5.3.2. Test Procedure Used**

ANSI C63.26-2015 - Section 5.7

#### **5.3.3. Test Setting**

1. Set the analyzer frequency to low, mid, high channel.
2. RBW = 1MHz
3. VBW  $\geq 3 \times$  RBW
4. Sweep time = auto
5. Detector = power averaging (rms)
6. Set sweep trigger to "free run."
7. User gate triggered such that the analyzer only sweeps when the device is transmitting at full power.
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple.  
To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.

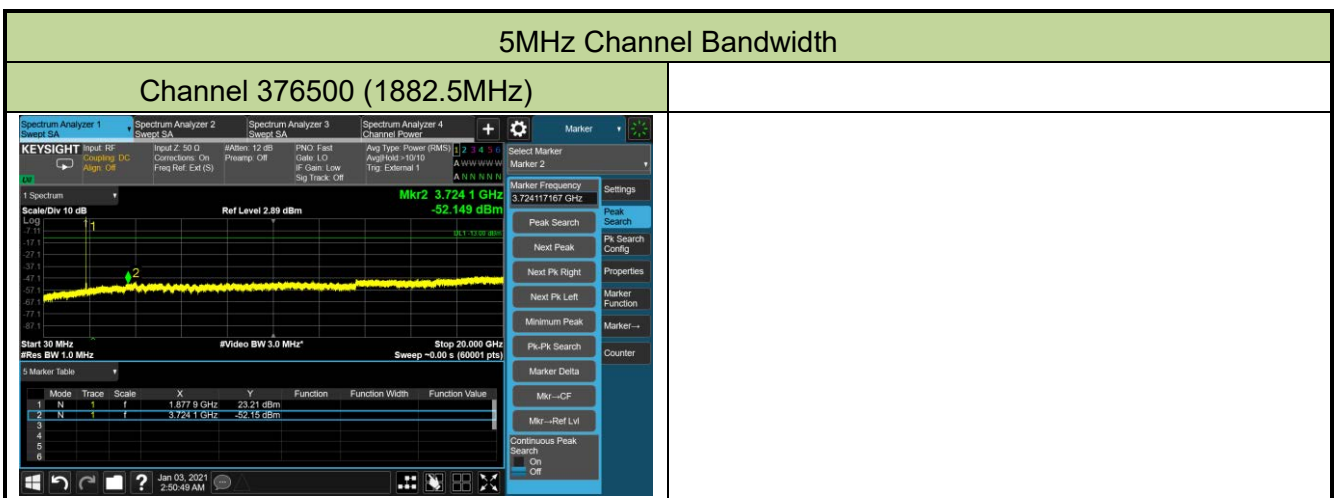
### 5.3.4. Test Setup



### 5.3.5.Test Result

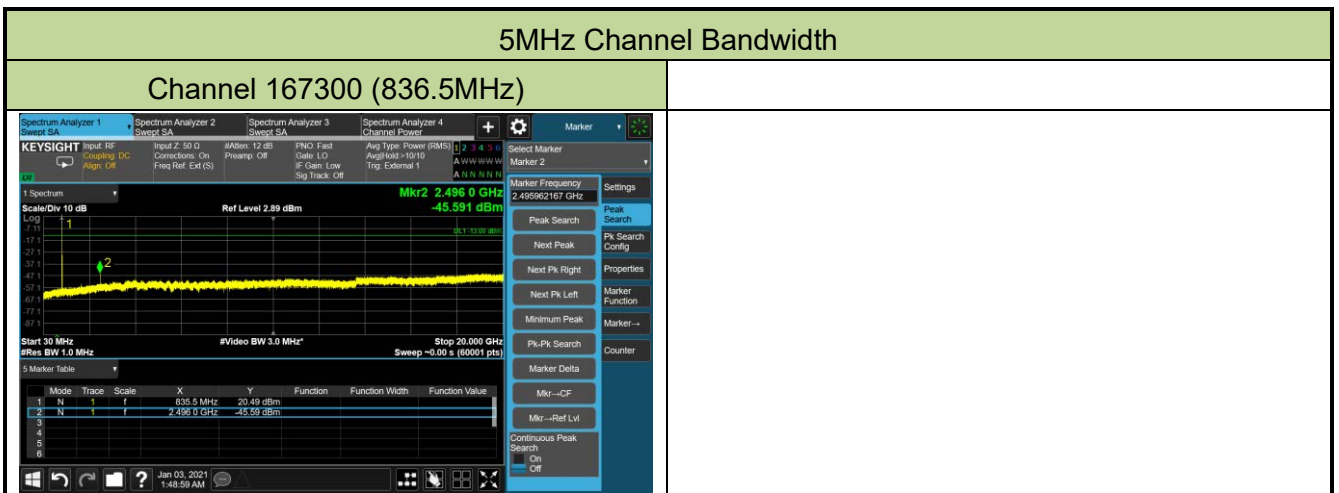
|               |                         |           |            |
|---------------|-------------------------|-----------|------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6     |
| Test Engineer | Edgar Ma                | Test Date | 2021/01/02 |
| Test Band     | n2/25_SA                |           |            |

| Channel | Frequency (MHz) | Channel Bandwidth (MHz) | Frequency Range (MHz) | Max Spurious Emissions (dBm) | Limit (dBm) | Result |
|---------|-----------------|-------------------------|-----------------------|------------------------------|-------------|--------|
| 376500  | 1882.5          | 5                       | 30 ~ 20000            | -52.15                       | ≤ -13.00    | Pass   |



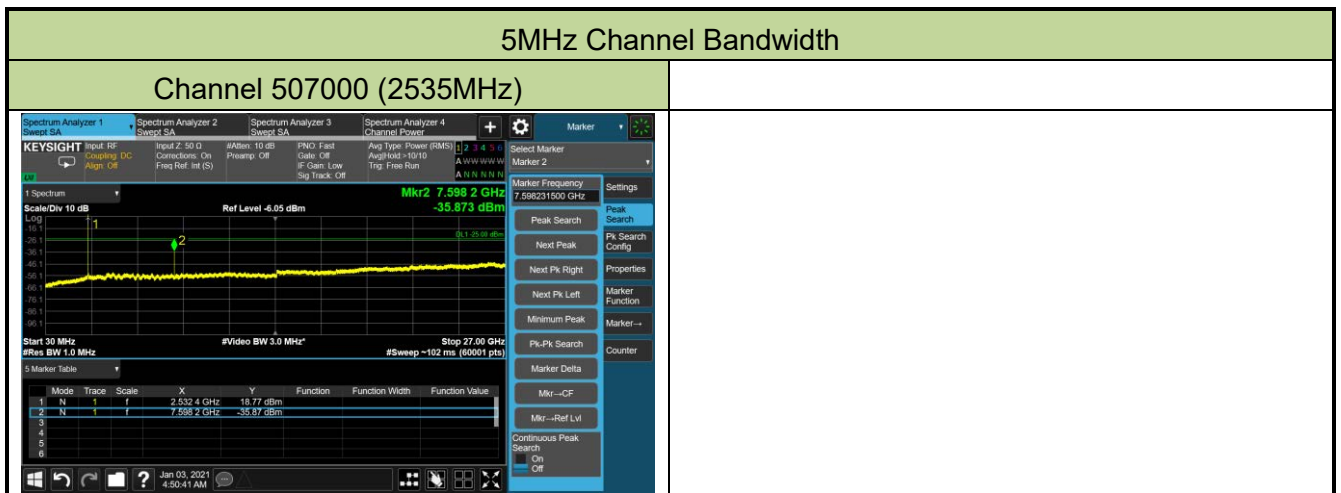
|               |                         |           |            |
|---------------|-------------------------|-----------|------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6     |
| Test Engineer | Edgar Ma                | Test Date | 2021/01/02 |
| Test Band     | n5_SA                   |           |            |

| Channel | Frequency (MHz) | Channel Bandwidth (MHz) | Frequency Range (MHz) | Max Spurious Emissions (dBm) | Limit (dBm) | Result |
|---------|-----------------|-------------------------|-----------------------|------------------------------|-------------|--------|
| 167300  | 836.5           | 5                       | 30 ~ 10000            | -45.59                       | ≤ -13.00    | Pass   |



|               |                         |           |            |
|---------------|-------------------------|-----------|------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6     |
| Test Engineer | Edgar Ma                | Test Date | 2021/01/02 |
| Test Band     | n7_SA                   |           |            |

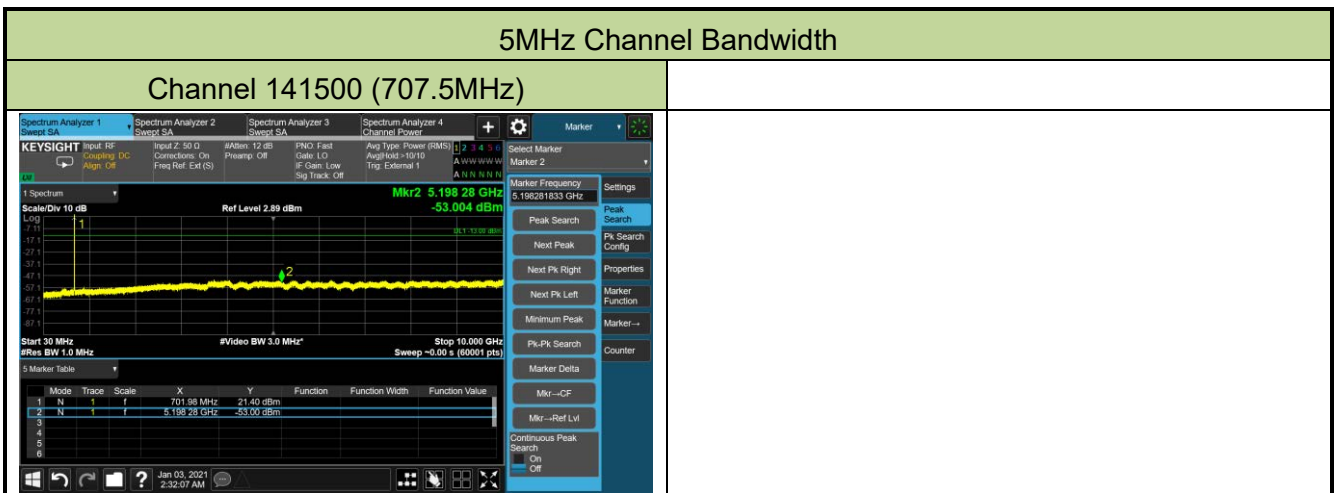
| Channel | Frequency (MHz) | Channel Bandwidth (MHz) | Frequency Range (MHz) | Max Spurious Emissions (dBm) | Limit (dBm) | Result |
|---------|-----------------|-------------------------|-----------------------|------------------------------|-------------|--------|
| 507000  | 2535.0          | 5                       | 30 ~ 26000            | -35.87                       | ≤ -25.00    | Pass   |





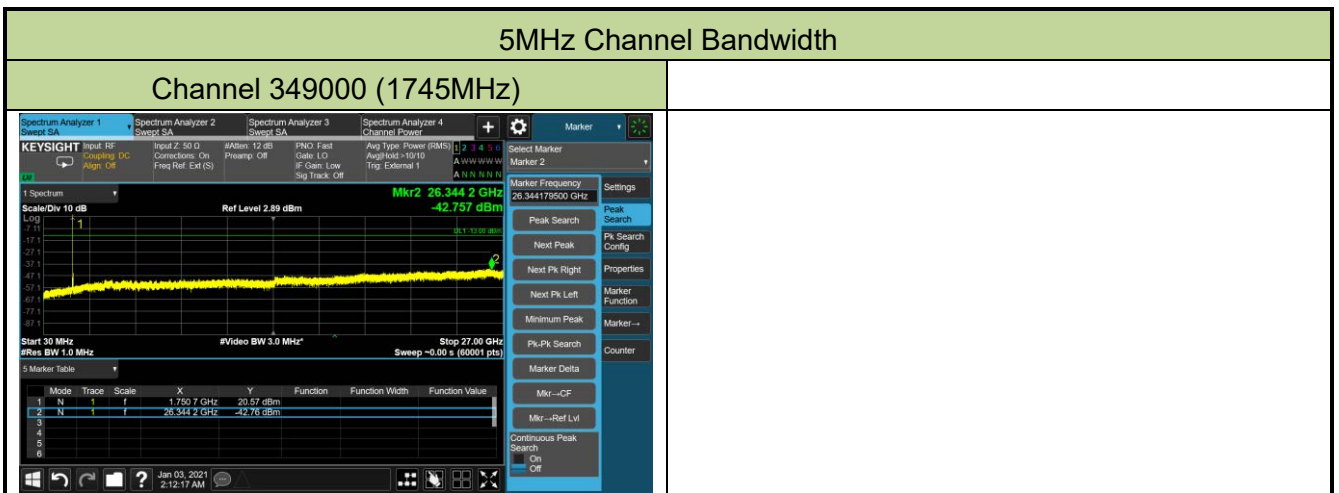
|               |                         |           |            |
|---------------|-------------------------|-----------|------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6     |
| Test Engineer | Edgar Ma                | Test Date | 2021/01/02 |
| Test Band     | n12_SA                  |           |            |

| Channel | Frequency (MHz) | Channel Bandwidth (MHz) | Frequency Range (MHz) | Max Spurious Emissions (dBm) | Limit (dBm) | Result |
|---------|-----------------|-------------------------|-----------------------|------------------------------|-------------|--------|
| 141500  | 707.5           | 5                       | 30 ~ 10000            | -53.00                       | ≤ -13.00    | Pass   |



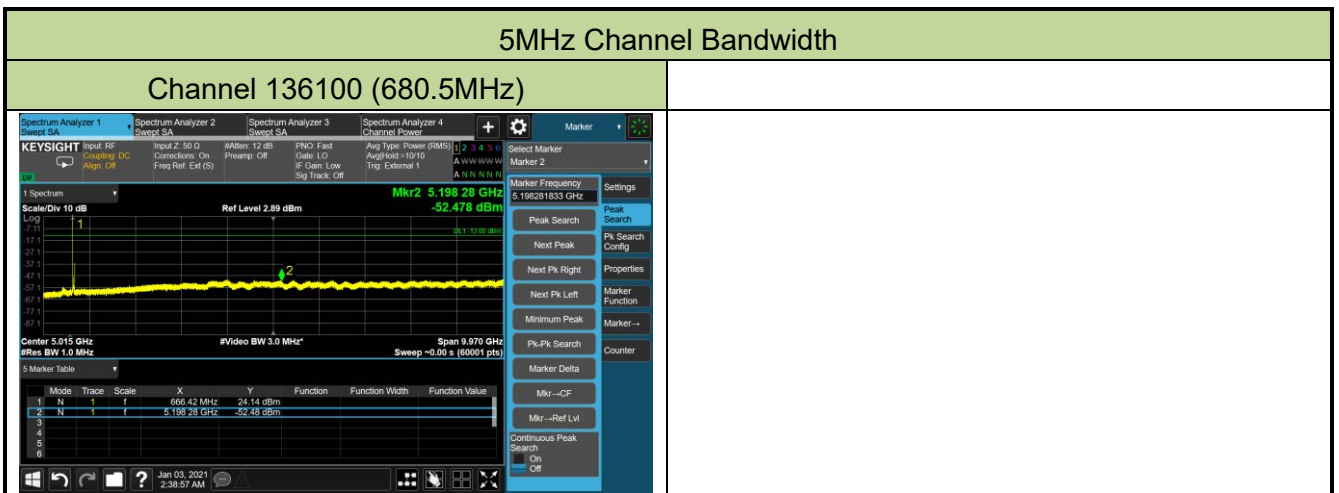
|               |                         |           |            |
|---------------|-------------------------|-----------|------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6     |
| Test Engineer | Edgar Ma                | Test Date | 2021/01/02 |
| Test Band     | n66_SA                  |           |            |

| Channel | Frequency (MHz) | Channel Bandwidth (MHz) | Frequency Range (MHz) | Max Spurious Emissions (dBm) | Limit (dBm) | Result |
|---------|-----------------|-------------------------|-----------------------|------------------------------|-------------|--------|
| 349000  | 1745.0          | 5                       | 30 ~ 20000            | -42.76                       | ≤ -13.00    | Pass   |



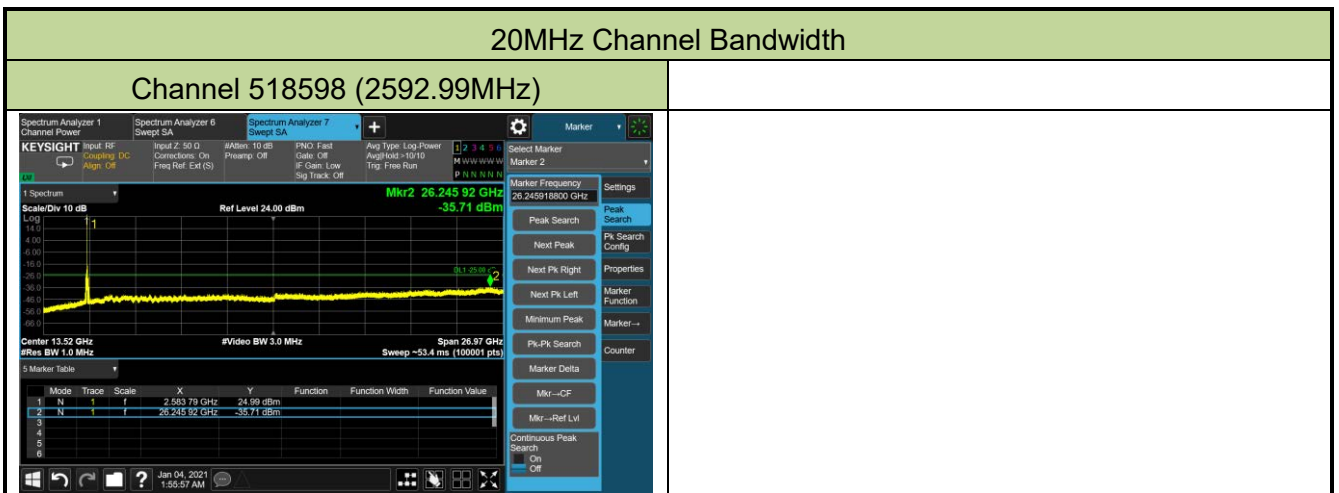
|               |                         |           |            |
|---------------|-------------------------|-----------|------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6     |
| Test Engineer | Edgar Ma                | Test Date | 2021/01/02 |
| Test Band     | n71_SA                  |           |            |

| Channel | Frequency (MHz) | Channel Bandwidth (MHz) | Frequency Range (MHz) | Max Spurious Emissions (dBm) | Limit (dBm) | Result |
|---------|-----------------|-------------------------|-----------------------|------------------------------|-------------|--------|
| 136100  | 680.5           | 5                       | 30 ~ 10000            | -52.48                       | ≤ -13.00    | Pass   |



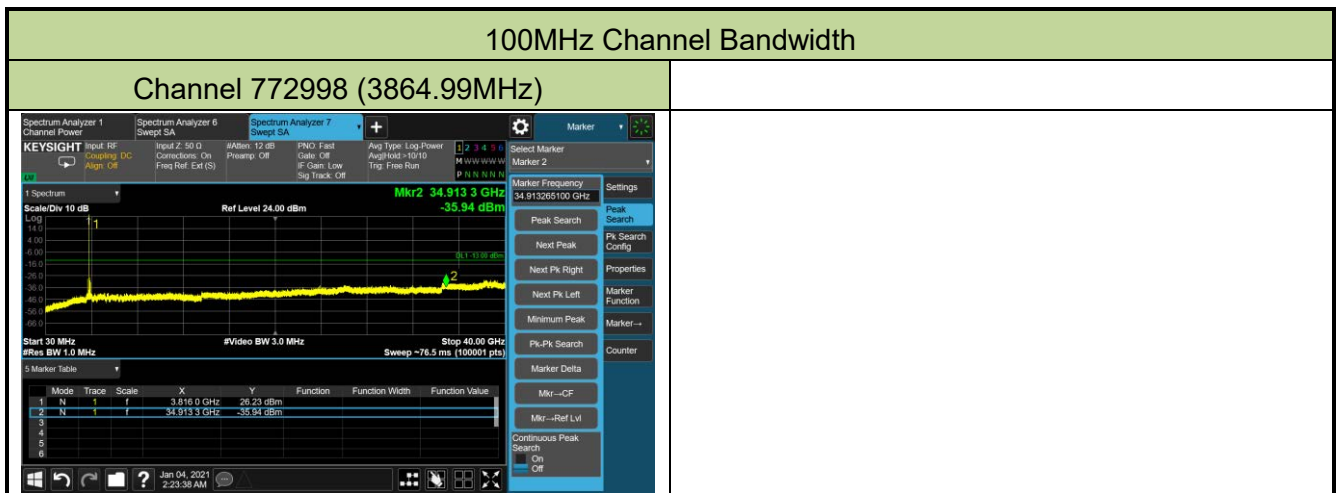
|               |                         |           |            |
|---------------|-------------------------|-----------|------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6     |
| Test Engineer | Edgar Ma                | Test Date | 2021/01/04 |
| Test Band     | n41_SA_HPUE             |           |            |

| Channel | Frequency (MHz) | Channel Bandwidth (MHz) | Frequency Range (MHz) | Max Spurious Emissions (dBm) | Limit (dBm) | Result |
|---------|-----------------|-------------------------|-----------------------|------------------------------|-------------|--------|
| 518598  | 2592.99         | 20                      | 30 ~ 27000            | -35.71                       | ≤ -25.00    | Pass   |



|               |                         |           |            |
|---------------|-------------------------|-----------|------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6     |
| Test Engineer | Edgar Ma                | Test Date | 2021/01/04 |
| Test Band     | n77_HPUE                |           |            |

| Channel No. | Frequency (MHz) | Channel Bandwidth (MHz) | Frequency Range (MHz) | Max Spurious Emissions (dBm) | Limit (dBm) | Result |
|-------------|-----------------|-------------------------|-----------------------|------------------------------|-------------|--------|
| 772998      | 3864.99         | 100                     | 30 ~ 40000            | -35.94                       | ≤ -13.00    | Pass   |



## 6. CONCLUSION

The data collected relate only the item(s) tested and show that unit is compliance with FCC Rules.

\_\_\_\_\_ The End \_\_\_\_\_

## **Appendix A - Test Setup Photograph**

Refer to “2011RSU077-UT” file.

## **Appendix B - EUT Photograph**

Refer to “2011RSU077-UE” file.



## **Appendix C - Reference Test Report**



# MEASUREMENT REPORT

## FCC PART 2 & 22 & 24 & 27

---

**FCC ID:** XMR2020RM502QAE

**Application:** Quectel Wireless Solutions Company Limited

**Application Type:** Certification

**Product:** 5G Sub-6 GHz M.2 Module

**Model No.:** RM502Q-AE

**Brand Name:** Quectel

**FCC Rule Part(s):** Part 2, 22 (H), 24 (E), 27

**Test Date:** October 08 ~ November 25, 2020

**Reviewed By:**

*Sunny Sun*

( Sunny Sun )

**Approved By:**

*Robin Wu*

( Robin Wu )



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.26-2015. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

### Revision History

| Report No.    | Version | Description                        | Issue Date | Note    |
|---------------|---------|------------------------------------|------------|---------|
| 2010RSU005-U6 | Rev. 01 | Initial Report                     | 11-16-2020 | Invalid |
| 2010RSU005-U6 | Rev. 02 | Added Bandwidth of BPSK modulation | 11-30-2020 | Valid   |

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## 1. GENERAL INFORMATION

### 1.1. Applicant

Quectel Wireless Solutions Company Limited

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District,  
Shanghai, China 200233

## 1.2. Manufacturer

Quectel Wireless Solutions Company Limited

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District,  
Shanghai, China 200233

### 1.3. Testing Facility

|                                     |                                                                                                                                           |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | <b>Test Site - MRT Suzhou Laboratory</b>                                                                                                  |
|                                     | <b>Laboratory Location (Suzhou - Wuzhong)</b><br>D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China       |
|                                     | <b>Laboratory Location (Suzhou - SIP)</b><br>4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China |
|                                     | <b>Laboratory Accreditations</b>                                                                                                          |
|                                     | A2LA: 3628.01<br>FCC: CN1166<br>VCCI: R-20025, G-20034, C-20020, T-20020                                                                  |
|                                     | CNAS: L10551<br>ISED: CN0001                                                                                                              |
| <input type="checkbox"/>            | <b>Test Site - MRT Shenzhen Laboratory</b>                                                                                                |
|                                     | <b>Laboratory Location (Shenzhen)</b><br>1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China  |
|                                     | <b>Laboratory Accreditations</b>                                                                                                          |
|                                     | A2LA: 3628.02<br>FCC: CN1284                                                                                                              |
|                                     | CNAS: L10551<br>ISED: CN0105                                                                                                              |
| <input type="checkbox"/>            | <b>Test Site - MRT Taiwan Laboratory</b>                                                                                                  |
|                                     | <b>Laboratory Location (Taiwan)</b><br>No. 38, Fuxing 2 <sup>nd</sup> Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)               |
|                                     | <b>Laboratory Accreditations</b>                                                                                                          |
|                                     | TAF: L3261-190725<br>FCC: 291082, TW3261                                                                                                  |
|                                     | ISED: TW3261                                                                                                                              |

## 2. PRODUCT INFORMATION

### 2.1. Equipment Description

|                        |                                                                                                                                                                                                                                                                                       |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:          | 5G Sub-6 GHz M.2 Module                                                                                                                                                                                                                                                               |
| Model No.:             | RM502Q-AE                                                                                                                                                                                                                                                                             |
| Brand Name:            | Quectel                                                                                                                                                                                                                                                                               |
| IMEI:                  | <u>Conducted Measurement</u><br>867826050002468; 867826050002559; 867826050002922<br><u>Radiated Measurement</u><br>867826050003060                                                                                                                                                   |
| Operating Temperature: | -20 ~ 60 °C                                                                                                                                                                                                                                                                           |
| Power Type:            | 3.135 ~ 4.4Vdc, typical 3.7Vdc                                                                                                                                                                                                                                                        |
| UMTS Specification     |                                                                                                                                                                                                                                                                                       |
| Single Band:           | Band 2, 4, 5                                                                                                                                                                                                                                                                          |
| Modulation:            | Uplink up to 16QAM, Downlink up to 64QAM                                                                                                                                                                                                                                              |
| Category:              | Category 6                                                                                                                                                                                                                                                                            |
| E-UTRA Specification   |                                                                                                                                                                                                                                                                                       |
| Single Band:           | Band 2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 30, 38, 41, 48, 66, 71                                                                                                                                                                                                                       |
| Intra-Band:            | CA_2C, CA_5B, CA_7C, CA_38C, CA_41C, CA_66C                                                                                                                                                                                                                                           |
| Modulation:            | UL & DL up to 256QAM                                                                                                                                                                                                                                                                  |
| Category:              | Category 18                                                                                                                                                                                                                                                                           |
| 5G NR Specification    |                                                                                                                                                                                                                                                                                       |
| SA Band:               | n2, n5, n7, n12, n25, n41, n66, n71, n77                                                                                                                                                                                                                                              |
| SA UL MIMO Band:       | n41                                                                                                                                                                                                                                                                                   |
| EN-DC Band:            | DC_5A_n2A, DC_12A_n2, DC_13A_n2A, DC_2A_n5A<br>DC_30A_n5A, DC_66A_n5A, DC_5A_n7A, DC_12A_n7A<br>DC_2A_n12A, DC_12A_n25A, DC_2A_n41A, DC_25A_n41A<br>DC_26A_n41A, DC_66A_n41A, DC_5A_n66A, DC_12A_n66A<br>DC_13A_n66A, DC_14A_n66A, DC_71A_n66A, DC_2A_n71A<br>DC_7A_n71A, DC_66A_n71A |
| HPUE Band:             | n41, n77                                                                                                                                                                                                                                                                              |
| SCS for NR cell:       | FDD Band: 15kHz; TDD Band: 30kHz                                                                                                                                                                                                                                                      |
| Modulation:            | UL & DL up to 256QAM                                                                                                                                                                                                                                                                  |

## 2.2. Product Specification Subjective to this Report

|                                     |                                                                                                                                                       |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| FDD T <sub>x</sub> Frequency Range: | n2: 1850 ~ 1910 MHz; n5: 824 ~ 849 MHz<br>n7: 2500 ~ 2570 MHz; n12: 699 ~ 716 MHz<br>n25: 1850 ~ 1915 MHz; n66: 1710 ~ 1780 MHz<br>n71: 663 ~ 698MHz  |
| FDD R <sub>x</sub> Frequency Range: | n2: 1930 ~ 1990 MHz; n5: 869 ~ 894 MHz<br>n7: 2620 ~ 2690 MHz; n12: 729 ~ 746 MHz<br>n25: 1930 ~ 1995 MHz; n66: 2110 ~ 2200 MHz<br>n71: 617 ~ 652 MHz |
| TDD Frequency Range:                | n41: 2496 ~ 2690 MHz; n77: 3700 ~ 3980MHz                                                                                                             |
| Support Bandwidth:                  | n2, n5, n7, n25, n66, n71: 5, 10, 15, 20MHz<br>n12: 5, 10, 15MHz<br>n41: 20, 30, 40, 50, 60, 80, 100MHz<br>n77: 100MHz                                |

Note 1: For other features of this EUT, test report will be issued separately.

Note 2: The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

## 2.3. Description of Available Antennas

| Technology | Frequency Range (MHz) | Antenna Type | Max Peak Gain (dBi) |
|------------|-----------------------|--------------|---------------------|
| n2         | 1850 ~ 1910           | Dipole       | 0.25                |
| n5         | 824 ~ 849             |              | 2.68                |
| n7         | 2500 ~ 2570           |              | 0.55                |
| n12        | 699 ~ 716             |              | -0.20               |
| n25        | 1850 ~ 1915           |              | 0.25                |
| n41        | 2496 ~ 2690           |              | 0.78                |
| n66        | 1710 ~ 1780           |              | 1.47                |
| n71        | 663 ~ 698             |              | 1.22                |
| n77        | 3700 ~ 3980           |              | -4.11               |

Note: All antenna information (Antenna type and Peak Gain) is provided by the manufacturer.



## 2.4. Test Methodology

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ANSI C63.26:2015
- FCC CFR 47 Part 2, Part 22, Part 24, Part 27
- FCC KDB 971168 D01 v03r01: Power Meas License Digital Systems
- FCC KDB 971168 D02 v02r01: Misc Rev Approv License Devices
- FCC KDB 412172 D01 v01r01: Determining ERP and EIRP
- FCC KDB 662911 D01 v02r01: Multiple Transmitter Output

## 2.5. Device Capabilities

This device contains 5G NR SA & EN-DC the following capabilities:

Working on NR Band n2, n5, n7, n12, n25, n41, n66, n71, n77.

n25 (1850 ~ 1915 MHz) overlaps the entire frequency range of n2 (1850 ~ 1910 MHz). Therefore, test data provided in this report covers n2 as well as n25.

PI/2 BPSK modulation applied for 5G NR band 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.

UL MIMO mode only support CP-OFDM.

The worst-case scenario for all measurements is based on an engineering evaluation and QPSK was observed as the worst one and set for all conducted and radiated. Output power measurements were measured on PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM, and BPSK modulations.

For EN-DC mode, 5G NR FR1 bands are tested in this report (Output Power, Conducted Band Edge, Radiated Spurious Emissions), all the other RF bands are tested in the other reports separately.

## 2.6. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

## 2.7. Maximum Power, Frequency Tolerance, and Emission Designator

| n2_SA    |                 | PI/2 BPSK  |                 |               | QPSK       |                 |               |
|----------|-----------------|------------|-----------------|---------------|------------|-----------------|---------------|
| BW (MHz) | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5        | 1852.5 ~ 1907.5 | 4M45F9W    | --              | 0.2280        | 4M47G7D    | --              | 0.2109        |
| 10       | 1855.0 ~ 1905.0 | 9M20F9W    | --              | 0.2109        | 9M24G7D    | --              | 0.2138        |
| 15       | 1857.5 ~ 1902.5 | 14M0F9W    | --              | 0.2104        | 13M9G7D    | --              | 0.2128        |
| 20       | 1860.0 ~ 1900.0 | 18M7F9W    | --              | 0.2143        | 18M7G7D    | -0.0136         | 0.2133        |
| n2_SA    |                 | 16QAM      |                 |               | 64QAM      |                 |               |
| BW (MHz) | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5        | 1852.5 ~ 1907.5 | 4M46W7D    | --              | 0.2070        | 4M46W7D    | --              | 0.1570        |
| 10       | 1855.0 ~ 1905.0 | 9M21W7D    | --              | 0.2193        | 9M21W7D    | --              | 0.1476        |
| 15       | 1857.5 ~ 1902.5 | 14M0W7D    | --              | 0.2223        | 14M0W7D    | --              | 0.1549        |
| 20       | 1860.0 ~ 1900.0 | 18M7W7D    | --              | 0.2270        | 18M8W7D    | --              | 0.1560        |
| n2_SA    |                 | 256QAM     |                 |               |            |                 |               |
| BW (MHz) | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) |            |                 |               |
| 5        | 1852.5 ~ 1907.5 | 4M46W7D    | --              | 0.1521        |            |                 |               |
| 10       | 1855.0 ~ 1905.0 | 9M20W7D    | --              | 0.1486        |            |                 |               |
| 15       | 1857.5 ~ 1902.5 | 14M0W7D    | --              | 0.1486        |            |                 |               |
| 20       | 1860.0 ~ 1900.0 | 18M7W7D    | --              | 0.1549        |            |                 |               |
| n25_SA   |                 | PI/2 BPSK  |                 |               | QPSK       |                 |               |
| BW (MHz) | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5        | 1852.5 ~ 1912.5 | 4M45F9W    | --              | 0.2280        | 4M47G7D    | --              | 0.2109        |
| 10       | 1855.0 ~ 1910.0 | 9M20F9W    | --              | 0.2109        | 9M24G7D    | --              | 0.2138        |
| 15       | 1857.5 ~ 1907.5 | 14M0F9W    | --              | 0.2104        | 13M9G7D    | --              | 0.2128        |
| 20       | 1860.0 ~ 1905.0 | 18M7F9W    | --              | 0.2143        | 18M7G7D    | -0.0136         | 0.2133        |
| n25_SA   |                 | 16QAM      |                 |               | 64QAM      |                 |               |
| BW (MHz) | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5        | 1852.5 ~ 1912.5 | 4M46W7D    | --              | 0.2070        | 4M46W7D    | --              | 0.1570        |
| 10       | 1855.0 ~ 1910.0 | 9M21W7D    | --              | 0.2193        | 9M21W7D    | --              | 0.1476        |
| 15       | 1857.5 ~ 1907.5 | 14M0W7D    | --              | 0.2223        | 14M0W7D    | --              | 0.1549        |
| 20       | 1860.0 ~ 1905.0 | 18M7W7D    | --              | 0.2270        | 18M8W7D    | --              | 0.1560        |

| n25_SA   |                 | 256QAM     |                 |               |            |                 |               |
|----------|-----------------|------------|-----------------|---------------|------------|-----------------|---------------|
| BW (MHz) | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) |            |                 |               |
| 5        | 1852.5 ~ 1912.5 | 4M46W7D    | --              | 0.1521        |            |                 |               |
| 10       | 1855.0 ~ 1910.0 | 9M20W7D    | --              | 0.1486        |            |                 |               |
| 15       | 1857.5 ~ 1907.5 | 14M0W7D    | --              | 0.1486        |            |                 |               |
| 20       | 1860.0 ~ 1905.0 | 18M7W7D    | --              | 0.1549        |            |                 |               |
| n7_SA    |                 | PI/2 BPSK  |                 |               | QPSK       |                 |               |
| BW (MHz) | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5        | 2502.5 ~ 2567.5 | 4M46F9W    | --              | 0.1968        | 4M46G7D    | --              | 0.1991        |
| 10       | 2505.0 ~ 2565.0 | 9M20F9W    | --              | 0.2244        | 9M26G7D    | --              | 0.2296        |
| 15       | 2507.5 ~ 2562.5 | 14M1F9W    | --              | 0.2323        | 13M9G7D    | --              | 0.2312        |
| 20       | 2510.0 ~ 2560.0 | 18M7F9W    | --              | 0.2344        | 18M7G7D    | -0.0076         | 0.2317        |
| n7_SA    |                 | 16QAM      |                 |               | 64QAM      |                 |               |
| BW (MHz) | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5        | 2502.5 ~ 2567.5 | 4M46W7D    | --              | 0.1936        | 4M46W7D    | --              | 0.1390        |
| 10       | 2505.0 ~ 2565.0 | 9M24W7D    | --              | 0.2280        | 9M21W7D    | --              | 0.1611        |
| 15       | 2507.5 ~ 2562.5 | 14M0W7D    | --              | 0.2388        | 14M0W7D    | --              | 0.1862        |
| 20       | 2510.0 ~ 2560.0 | 18M7W7D    | --              | 0.2360        | 18M8W7D    | --              | 0.1614        |
| n7_SA    |                 | 256QAM     |                 |               |            |                 |               |
| BW (MHz) | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) |            |                 |               |
| 5        | 2502.5 ~ 2567.5 | 4M46W7D    | --              | 0.0877        |            |                 |               |
| 10       | 2505.0 ~ 2565.0 | 9M21W7D    | --              | 0.1023        |            |                 |               |
| 15       | 2507.5 ~ 2562.5 | 14M0W7D    | --              | 0.1067        |            |                 |               |
| 20       | 2510.0 ~ 2560.0 | 18M7W7D    | --              | 0.1016        |            |                 |               |
| n41_SA   |                 | PI/2 BPSK  |                 |               | QPSK       |                 |               |
| BW (MHz) | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 20       | 2506.0 ~ 2680.0 | 18M0F9W    | --              | 0.4355        | 17M9G7D    | --              | 0.4406        |
| 30       | 2511.0 ~ 2675.0 | 27M6F9W    | --              | 0.4036        | 26M8G7D    | --              | 0.3459        |
| 40       | 2516.0 ~ 2670.0 | 37M3F9W    | --              | 0.4315        | 35M7G7D    | --              | 0.4315        |
| 50       | 2521.0 ~ 2665.0 | 47M0F9W    | --              | 0.3420        | 45M7G7D    | --              | 0.3396        |
| 60       | 2526.0 ~ 2660.0 | 57M6F9W    | --              | 0.4416        | 57M8G7D    | --              | 0.4345        |
| 80       | 2536.0 ~ 2650.0 | 76M8F9W    | --              | 0.4560        | 76M9G7D    | --              | 0.4446        |
| 100      | 2546.0 ~ 2640.0 | 96M1F9W    | --              | 0.4457        | 96M2G7D    | -0.0106         | 0.4498        |

| n41_SA   |                 | 16QAM      |                 |               | 64QAM      |                 |               |
|----------|-----------------|------------|-----------------|---------------|------------|-----------------|---------------|
| BW (MHz) | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 20       | 2506.0 ~ 2680.0 | 18M8W7D    | --              | 0.3475        | 18M0W7D    | --              | 0.2393        |
| 30       | 2511.0 ~ 2675.0 | 26M8W7D    | --              | 0.2754        | 26M8W7D    | --              | 0.2333        |
| 40       | 2516.0 ~ 2670.0 | 35M7W7D    | --              | 0.3404        | 35M7W7D    | --              | 0.2600        |
| 50       | 2521.0 ~ 2665.0 | 45M8W7D    | --              | 0.2858        | 45M7W7D    | --              | 0.2158        |
| 60       | 2526.0 ~ 2660.0 | 57M8W7D    | --              | 0.3475        | 57M7W7D    | --              | 0.2495        |
| 80       | 2536.0 ~ 2650.0 | 76M8W7D    | --              | 0.3565        | 77M1W7D    | --              | 0.2512        |
| 100      | 2546.0 ~ 2640.0 | 96M2W7D    | --              | 0.3532        | 96M1W7D    | --              | 0.2518        |
| n41_SA   |                 | 256QAM     |                 |               |            |                 |               |
| BW (MHz) | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) |            |                 |               |
| 20       | 2506.0 ~ 2680.0 | 17M9W7D    | --              | 0.1592        |            |                 |               |
| 30       | 2511.0 ~ 2675.0 | 26M8W7D    | --              | 0.1233        |            |                 |               |
| 40       | 2516.0 ~ 2670.0 | 35M7W7D    | --              | 0.1567        |            |                 |               |
| 50       | 2521.0 ~ 2665.0 | 45M7W7D    | --              | 0.1245        |            |                 |               |
| 60       | 2526.0 ~ 2660.0 | 57M8W7D    | --              | 0.1439        |            |                 |               |
| 80       | 2536.0 ~ 2650.0 | 76M9W7D    | --              | 0.1574        |            |                 |               |
| 100      | 2546.0 ~ 2640.0 | 96M3W7D    | --              | 0.1570        |            |                 |               |
| n5_SA    |                 | PI/2 BPSK  |                 |               | QPSK       |                 |               |
| BW (MHz) | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5        | 826.6 ~ 846.5   | 4M46F9W    | --              | 0.2158        | 4M46G7D    | --              | 0.2128        |
| 10       | 829.0 ~ 844.0   | 9M25F9W    | --              | 0.2133        | 9M25G7D    | --              | 0.2128        |
| 15       | 831.5 ~ 841.5   | 13M9F9W    | --              | 0.2128        | 13M9G7D    | --              | 0.2128        |
| 20       | 834.0 ~ 839.0   | 18M7F9W    | --              | 0.2004        | 18M7G7D    | -0.0121         | 0.1954        |
| n5_SA    |                 | 16QAM      |                 |               | 64QAM      |                 |               |
| BW (MHz) | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5        | 826.6 ~ 846.5   | 4M47W7D    | --              | 0.2084        | 4M45W7D    | --              | 0.1567        |
| 10       | 829.0 ~ 844.0   | 9M22W7D    | --              | 0.1936        | 9M22W7D    | --              | 0.1600        |
| 15       | 831.5 ~ 841.5   | 14M0W7D    | --              | 0.2084        | 14M0W7D    | --              | 0.1622        |
| 20       | 834.0 ~ 839.0   | 18M7W7D    | --              | 0.1968        | 18M7W7D    | --              | 0.1371        |
| n5_SA    |                 | 256QAM     |                 |               |            |                 |               |
| BW (MHz) | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) |            |                 |               |
| 5        | 826.6 ~ 846.5   | 4M46W7D    | --              | 0.0955        |            |                 |               |
| 10       | 829.0 ~ 844.0   | 9M21W7D    | --              | 0.0951        |            |                 |               |
| 15       | 831.5 ~ 841.5   | 14M0W7D    | --              | 0.0933        |            |                 |               |
| 20       | 834.0 ~ 839.0   | 18M6W7D    | --              | 0.0865        |            |                 |               |

| n12_SA   |                 | PI/2 BPSK  |                 |               | QPSK       |                 |               |
|----------|-----------------|------------|-----------------|---------------|------------|-----------------|---------------|
| BW (MHz) | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5        | 701.5 ~ 713.5   | 4M47F9W    | --              | 0.2328        | 4M46G7D    | --              | 0.2317        |
| 10       | 704.0 ~ 711.0   | 9M18F9W    | --              | 0.2296        | 9M25G7D    | --              | 0.2339        |
| 15       | 706.5 ~ 709.5   | 14M0F9W    | --              | 0.2312        | 14M0G7D    | -0.0110         | 0.2350        |
| n12_SA   |                 | 16QAM      |                 |               | 64QAM      |                 |               |
| BW (MHz) | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5        | 701.5 ~ 713.5   | 4M46W7D    | --              | 0.2317        | 4M46W7D    | --              | 0.1644        |
| 10       | 704.0 ~ 711.0   | 9M22W7D    | --              | 0.2350        | 9M21W7D    | --              | 0.1614        |
| 15       | 706.5 ~ 709.5   | 14M0W7D    | --              | 0.2377        | 14M0W7D    | --              | 0.1626        |
| n12_SA   |                 | 256QAM     |                 |               |            |                 |               |
| BW (MHz) | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) |            |                 |               |
| 5        | 701.5 ~ 713.5   | 4M46W7D    | --              | 0.1014        |            |                 |               |
| 10       | 704.0 ~ 711.0   | 9M20W7D    | --              | 0.0995        |            |                 |               |
| 15       | 706.5 ~ 709.5   | 14M0W7D    | --              | 0.0995        |            |                 |               |
| n66_SA   |                 | PI/2 BPSK  |                 |               | QPSK       |                 |               |
| BW (MHz) | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5        | 1712.5 ~ 1777.5 | 4M47F9W    | --              | 0.2259        | 4M46G7D    | --              | 0.2301        |
| 10       | 1715.0 ~ 1775.0 | 9M17F9W    | --              | 0.2432        | 9M25G7D    | --              | 0.2244        |
| 15       | 1717.5 ~ 1772.5 | 14M0F9W    | --              | 0.2265        | 14M0G7D    | --              | 0.2213        |
| 20       | 1720.0 ~ 1770.0 | 18M7F9W    | --              | 0.2270        | 18M7G7D    | -0.0094         | 0.2286        |
| n66_SA   |                 | 16QAM      |                 |               | 64QAM      |                 |               |
| BW (MHz) | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5        | 1712.5 ~ 1777.5 | 4M46W7D    | --              | 0.2301        | 4M46W7D    | --              | 0.2275        |
| 10       | 1715.0 ~ 1775.0 | 9M21W7D    | --              | 0.2244        | 9M21W7D    | --              | 0.1656        |
| 15       | 1717.5 ~ 1772.5 | 14M0W7D    | --              | 0.2265        | 14M0W7D    | --              | 0.1574        |
| 20       | 1720.0 ~ 1770.0 | 18M7W7D    | --              | 0.2393        | 18M8W7D    | --              | 0.1600        |
| n66_SA   |                 | 256QAM     |                 |               |            |                 |               |
| BW (MHz) | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) |            |                 |               |
| 5        | 1712.5 ~ 1777.5 | 4M46W7D    | --              | 0.1035        |            |                 |               |
| 10       | 1715.0 ~ 1775.0 | 9M18W7D    | --              | 0.1042        |            |                 |               |
| 15       | 1717.5 ~ 1772.5 | 14M0W7D    | --              | 0.1009        |            |                 |               |
| 20       | 1720.0 ~ 1770.0 | 18M7W7D    | --              | 0.1009        |            |                 |               |

| n71_SA   |                 | PI/2 BPSK  |                 |               | QPSK       |                 |               |
|----------|-----------------|------------|-----------------|---------------|------------|-----------------|---------------|
| BW (MHz) | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5        | 619.5 ~ 649.5   | 4M47F9W    | --              | 0.2472        | 4M46G7D    | --              | 0.2449        |
| 10       | 622.0 ~ 647.0   | 9M21F9W    | --              | 0.2472        | 9M25G7D    | --              | 0.2460        |
| 15       | 624.5 ~ 644.5   | 13M9F9W    | --              | 0.2388        | 13M9G7D    | --              | 0.2382        |
| 20       | 627.0 ~ 642.0   | 18M6F9W    | --              | 0.2466        | 18M6G7D    | -0.0089         | 0.2377        |
| n71_SA   |                 | 16QAM      |                 |               | 64QAM      |                 |               |
| BW (MHz) | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5        | 619.5 ~ 649.5   | 4M46W7D    | --              | 0.1897        | 4M45W7D    | --              | 0.1832        |
| 10       | 622.0 ~ 647.0   | 9M22W7D    | --              | 0.1845        | 9M21W7D    | --              | 0.1803        |
| 15       | 624.5 ~ 644.5   | 13M9W7D    | --              | 0.1888        | 14M0W7D    | --              | 0.1679        |
| 20       | 627.0 ~ 642.0   | 18M7W7D    | --              | 0.1897        | 18M7W7D    | --              | 0.1730        |
| n71_SA   |                 | 256QAM     |                 |               |            |                 |               |
| BW (MHz) | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) |            |                 |               |
| 5        | 619.5 ~ 649.5   | 4M46W7D    | --              | 0.1040        |            |                 |               |
| 10       | 622.0 ~ 647.0   | 9M20W7D    | --              | 0.1072        |            |                 |               |
| 15       | 624.5 ~ 644.5   | 14M0W7D    | --              | 0.1035        |            |                 |               |
| 20       | 627.0 ~ 642.0   | 18M5W7D    | --              | 0.1072        |            |                 |               |
| n77_SA   |                 | PI/2 BPSK  |                 |               | QPSK       |                 |               |
| BW (MHz) | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 100      | 3750.0 ~ 3930.0 | 96M2F9W    | -               | 0.4159        | 96M5G7D    | -0.0103         | 0.4130        |
| n77_SA   |                 | 16QAM      |                 |               | 64QAM      |                 |               |
| BW (MHz) | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 100      | 3750.0 ~ 3930.0 | 96M5W7D    | --              | 0.3350        | 96M4W7D    | --              | 0.2296        |
| n77_SA   |                 | 256QAM     |                 |               |            |                 |               |
| BW (MHz) | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) |            |                 |               |
| 100      | 3750.0 ~ 3930.0 | 96M1W7D    | --              | 0.1567        |            |                 |               |

| n2_EN-DC  |                 | PI/2 BPSK  |                 |               | QPSK       |                 |               |
|-----------|-----------------|------------|-----------------|---------------|------------|-----------------|---------------|
| BW (MHz)  | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5         | 1852.5 ~ 1907.5 | 4M45F9W    | --              | 0.1959        | 4M47G7D    | --              | 0.1945        |
| 10        | 1855.0 ~ 1905.0 | 9M20F9W    | --              | 0.1910        | 9M24G7D    | --              | 0.1954        |
| 15        | 1857.5 ~ 1902.5 | 14M0F9W    | --              | 0.2004        | 13M9G7D    | --              | 0.2051        |
| 20        | 1860.0 ~ 1900.0 | 18M7F9W    | --              | 0.1954        | 18M7G7D    | -0.0136         | 0.1972        |
| n2_EN-DC  |                 | 16QAM      |                 |               | 64QAM      |                 |               |
| BW (MHz)  | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5         | 1852.5 ~ 1907.5 | 4M46W7D    | --              | 0.1977        | 4M46W7D    | --              | 0.1422        |
| 10        | 1855.0 ~ 1905.0 | 9M21W7D    | --              | 0.1936        | 9M21W7D    | --              | 0.1455        |
| 15        | 1857.5 ~ 1902.5 | 14M0W7D    | --              | 0.1977        | 14M0W7D    | --              | 0.1483        |
| 20        | 1860.0 ~ 1900.0 | 18M7W7D    | --              | 0.2018        | 18M8W7D    | --              | 0.1476        |
| n2_EN-DC  |                 | 256QAM     |                 |               |            |                 |               |
| BW (MHz)  | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) |            |                 |               |
| 5         | 1852.5 ~ 1907.5 | 4M46W7D    | --              | 0.0863        |            |                 |               |
| 10        | 1855.0 ~ 1905.0 | 9M20W7D    | --              | 0.0899        |            |                 |               |
| 15        | 1857.5 ~ 1902.5 | 14M0W7D    | --              | 0.0873        |            |                 |               |
| 20        | 1860.0 ~ 1900.0 | 18M7W7D    | --              | 0.0906        |            |                 |               |
| n25_EN-DC |                 | PI/2 BPSK  |                 |               | QPSK       |                 |               |
| BW (MHz)  | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5         | 1852.5 ~ 1912.5 | 4M45F9W    | --              | 0.1959        | 4M47G7D    | --              | 0.1945        |
| 10        | 1855.0 ~ 1910.0 | 9M20F9W    | --              | 0.1910        | 9M24G7D    | --              | 0.1954        |
| 15        | 1857.5 ~ 1907.5 | 14M0F9W    | --              | 0.2004        | 13M9G7D    | --              | 0.2051        |
| 20        | 1860.0 ~ 1905.0 | 18M7F9W    | --              | 0.1954        | 18M7G7D    | -0.0136         | 0.1972        |
| n25_EN-DC |                 | 16QAM      |                 |               | 64QAM      |                 |               |
| BW (MHz)  | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5         | 1852.5 ~ 1912.5 | 4M46W7D    | --              | 0.1977        | 4M46W7D    | --              | 0.1422        |
| 10        | 1855.0 ~ 1910.0 | 9M21W7D    | --              | 0.1936        | 9M21W7D    | --              | 0.1455        |
| 15        | 1857.5 ~ 1907.5 | 14M0W7D    | --              | 0.1977        | 14M0W7D    | --              | 0.1483        |
| 20        | 1860.0 ~ 1905.0 | 18M7W7D    | --              | 0.2018        | 18M8W7D    | --              | 0.1476        |

| n25_EN-DC |                 | 256QAM     |                 |               |            |                 |               |
|-----------|-----------------|------------|-----------------|---------------|------------|-----------------|---------------|
| BW (MHz)  | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) |            |                 |               |
| 5         | 1852.5 ~ 1912.5 | 4M46W7D    | --              | 0.0863        |            |                 |               |
| 10        | 1855.0 ~ 1910.0 | 9M20W7D    | --              | 0.0899        |            |                 |               |
| 15        | 1857.5 ~ 1907.5 | 14M0W7D    | --              | 0.0873        |            |                 |               |
| 20        | 1860.0 ~ 1905.0 | 18M7W7D    | --              | 0.0906        |            |                 |               |
| n7_EN-DC  |                 | PI/2 BPSK  |                 |               | QPSK       |                 |               |
| BW (MHz)  | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5         | 2502.5 ~ 2567.5 | 4M46F9W    | --              | 0.1941        | 4M46G7D    | --              | 0.1928        |
| 10        | 2505.0 ~ 2565.0 | 9M20F9W    | --              | 0.1936        | 9M26G7D    | --              | 0.1932        |
| 15        | 2507.5 ~ 2562.5 | 14M1F9W    | --              | 0.2089        | 13M9G7D    | --              | 0.2148        |
| 20        | 2510.0 ~ 2560.0 | 18M7F9W    | --              | 0.2032        | 18M7G7D    | -0.0076         | 0.1991        |
| n7_EN-DC  |                 | 16QAM      |                 |               | 64QAM      |                 |               |
| BW (MHz)  | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5         | 2502.5 ~ 2567.5 | 4M46W7D    | --              | 0.1950        | 4M46W7D    | --              | 0.1462        |
| 10        | 2505.0 ~ 2565.0 | 9M24W7D    | --              | 0.1982        | 9M21W7D    | --              | 0.1390        |
| 15        | 2507.5 ~ 2562.5 | 14M0W7D    | --              | 0.200         | 14M0W7D    | --              | 0.1524        |
| 20        | 2510.0 ~ 2560.0 | 18M7W7D    | --              | 0.2070        | 18M8W7D    | --              | 0.1542        |
| n7_EN-DC  |                 | 256QAM     |                 |               |            |                 |               |
| BW (MHz)  | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) |            |                 |               |
| 5         | 2502.5 ~ 2567.5 | 4M46W7D    | --              | 0.0873        |            |                 |               |
| 10        | 2505.0 ~ 2565.0 | 9M21W7D    | --              | 0.0853        |            |                 |               |
| 15        | 2507.5 ~ 2562.5 | 14M0W7D    | --              | 0.0891        |            |                 |               |
| 20        | 2510.0 ~ 2560.0 | 18M7W7D    | --              | 0.0879        |            |                 |               |
| n41_EN-DC |                 | PI/2 BPSK  |                 |               | QPSK       |                 |               |
| BW (MHz)  | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 20        | 2506.0 ~ 2680.0 | 18M0F9W    | --              | 0.2075        | 17M9G7D    | --              | 0.2084        |
| 30        | 2511.0 ~ 2675.0 | 27M6F9W    | --              | 0.2333        | 26M8G7D    | --              | 0.2265        |
| 40        | 2516.0 ~ 2670.0 | 37M3F9W    | --              | 0.2280        | 35M7G7D    | --              | 0.2254        |
| 50        | 2521.0 ~ 2665.0 | 47M0F9W    | --              | 0.2089        | 45M7G7D    | --              | 0.2089        |
| 60        | 2526.0 ~ 2660.0 | 57M6F9W    | --              | 0.2128        | 57M8G7D    | --              | 0.2109        |
| 80        | 2536.0 ~ 2650.0 | 76M8F9W    | --              | 0.2178        | 76M9G7D    | --              | 0.2183        |
| 100       | 2546.0 ~ 2640.0 | 96M1F9W    | --              | 0.2128        | 96M2G7D    | -0.0106         | 0.2109        |



| n41_EN-DC |                 | 16QAM      |                 |               | 64QAM      |                 |               |
|-----------|-----------------|------------|-----------------|---------------|------------|-----------------|---------------|
| BW (MHz)  | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 20        | 2506.0 ~ 2680.0 | 18M8W7D    | --              | 0.2109        | 18M0W7D    | --              | 0.2061        |
| 30        | 2511.0 ~ 2675.0 | 26M8W7D    | --              | 0.2388        | 26M8W7D    | --              | 0.2259        |
| 40        | 2516.0 ~ 2670.0 | 35M7W7D    | --              | 0.2307        | 35M7W7D    | --              | 0.2228        |
| 50        | 2521.0 ~ 2665.0 | 45M8W7D    | --              | 0.2109        | 45M7W7D    | --              | 0.2080        |
| 60        | 2526.0 ~ 2660.0 | 57M8W7D    | --              | 0.2128        | 57M7W7D    | --              | 0.2128        |
| 80        | 2536.0 ~ 2650.0 | 76M8W7D    | --              | 0.2203        | 77M1W7D    | --              | 0.2148        |
| 100       | 2546.0 ~ 2640.0 | 96M2W7D    | --              | 0.2203        | 96M1W7D    | --              | 0.2138        |
| n41_EN-DC |                 | 256QAM     |                 |               |            |                 |               |
| BW (MHz)  | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) |            |                 |               |
| 20        | 2506.0 ~ 2680.0 | 17M9W7D    | --              | 0.1452        |            |                 |               |
| 30        | 2511.0 ~ 2675.0 | 26M8W7D    | --              | 0.1578        |            |                 |               |
| 40        | 2516.0 ~ 2670.0 | 35M7W7D    | --              | 0.1574        |            |                 |               |
| 50        | 2521.0 ~ 2665.0 | 45M7W7D    | --              | 0.1472        |            |                 |               |
| 60        | 2526.0 ~ 2660.0 | 57M8W7D    | --              | 0.2812        |            |                 |               |
| 80        | 2536.0 ~ 2650.0 | 76M9W7D    | --              | 0.1549        |            |                 |               |
| 100       | 2546.0 ~ 2640.0 | 96M3W7D    | --              | 0.1517        |            |                 |               |
| n5_EN-DC  |                 | PI/2 BPSK  |                 |               | QPSK       |                 |               |
| BW (MHz)  | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5         | 826.6 ~ 846.5   | 4M46F9W    | --              | 0.2270        | 4M46G7D    | --              | 0.2163        |
| 10        | 829.0 ~ 844.0   | 9M25F9W    | --              | 0.2265        | 9M25G7D    | --              | 0.2158        |
| 15        | 831.5 ~ 841.5   | 13M9F9W    | --              | 0.2143        | 13M9G7D    | --              | 0.2218        |
| 20        | 834.0 ~ 839.0   | 18M7F9W    | --              | 0.2244        | 18M7G7D    | -0.0121         | 0.2128        |
| n5_EN-DC  |                 | 16QAM      |                 |               | 64QAM      |                 |               |
| BW (MHz)  | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5         | 826.6 ~ 846.5   | 4M47W7D    | --              | 0.2460        | 4M45W7D    | --              | 0.1782        |
| 10        | 829.0 ~ 844.0   | 9M22W7D    | --              | 0.2570        | 9M22W7D    | --              | 0.1660        |
| 15        | 831.5 ~ 841.5   | 14M0W7D    | --              | 0.2259        | 14M0W7D    | --              | 0.1656        |
| 20        | 834.0 ~ 839.0   | 18M7W7D    | --              | 0.2360        | 18M7W7D    | --              | 0.1538        |
| n5_EN-DC  |                 | 256QAM     |                 |               |            |                 |               |
| BW (MHz)  | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) |            |                 |               |
| 5         | 826.6 ~ 846.5   | 4M46W7D    | --              | 0.0975        |            |                 |               |
| 10        | 829.0 ~ 844.0   | 9M21W7D    | --              | 0.0973        |            |                 |               |
| 15        | 831.5 ~ 841.5   | 14M0W7D    | --              | 0.0968        |            |                 |               |
| 20        | 834.0 ~ 839.0   | 18M6W7D    | --              | 0.0968        |            |                 |               |

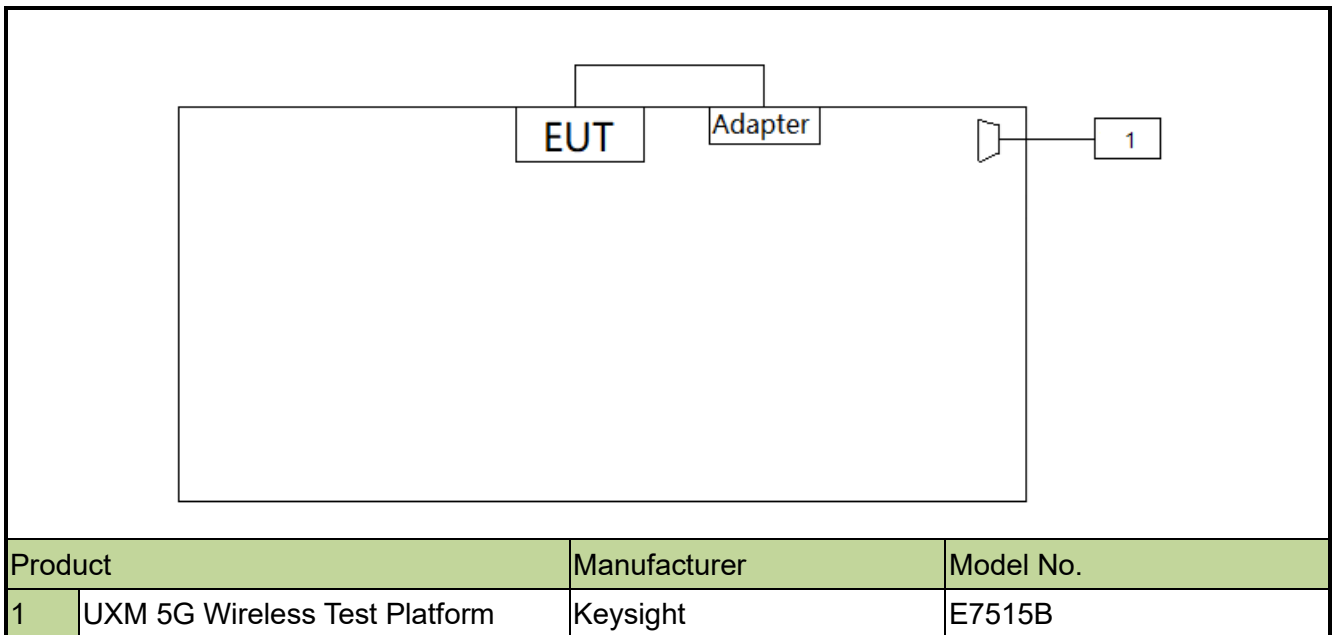
| n12_EN-DC |                 | QPSK       |                 |               | PI/2 BPSK  |                 |               |
|-----------|-----------------|------------|-----------------|---------------|------------|-----------------|---------------|
| BW (MHz)  | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5         | 701.5 ~ 713.5   | 4M46G7D    | --              | 0.2239        | 4M47F9W    | --              | 0.2291        |
| 10        | 704.0 ~ 711.0   | 9M25G7D    | --              | 0.2218        | 9M18F9W    | --              | 0.2218        |
| 15        | 706.5 ~ 709.5   | 14M0G7D    | -0.0110         | 0.2280        | 14M0F9W    | --              | 0.2254        |
| n12_EN-DC |                 | 16QAM      |                 |               | 64QAM      |                 |               |
| BW (MHz)  | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5         | 701.5 ~ 713.5   | 4M46W7D    | --              | 0.2317        | 4M46W7D    | --              | 0.1803        |
| 10        | 704.0 ~ 711.0   | 9M22W7D    | --              | 0.2344        | 9M21W7D    | --              | 0.1679        |
| 15        | 706.5 ~ 709.5   | 14M0W7D    | --              | 0.2489        | 14M0W7D    | --              | 0.1603        |
| n12_EN-DC |                 | 256QAM     |                 |               |            |                 |               |
| BW (MHz)  | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) |            |                 |               |
| 5         | 701.5 ~ 713.5   | 4M46W7D    | --              | 0.0984        |            |                 |               |
| 10        | 704.0 ~ 711.0   | 9M20W7D    | --              | 0.0959        |            |                 |               |
| 15        | 706.5 ~ 709.5   | 14M0W7D    | --              | 0.1050        |            |                 |               |
| n66_EN-DC |                 | PI/2 BPSK  |                 |               | QPSK       |                 |               |
| BW (MHz)  | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5         | 1712.5 ~ 1777.5 | 4M47F9W    | --              | 0.1945        | 4M46G7D    | --              | 0.1941        |
| 10        | 1715.0 ~ 1775.0 | 9M17F9W    | --              | 0.1963        | 9M25G7D    | --              | 0.1954        |
| 15        | 1717.5 ~ 1772.5 | 14M0F9W    | --              | 0.1910        | 14M0G7D    | --              | 0.2000        |
| 20        | 1720.0 ~ 1770.0 | 18M7F9W    | --              | 0.1954        | 18M7G7D    | -0.0094         | 0.2089        |
| n66_EN-DC |                 | 16QAM      |                 |               | 64QAM      |                 |               |
| BW (MHz)  | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5         | 1712.5 ~ 1777.5 | 4M46W7D    | --              | 0.2042        | 4M46W7D    | --              | 0.1667        |
| 10        | 1715.0 ~ 1775.0 | 9M21W7D    | --              | 0.1888        | 9M21W7D    | --              | 0.1409        |
| 15        | 1717.5 ~ 1772.5 | 14M0W7D    | --              | 0.2014        | 14M0W7D    | --              | 0.1500        |
| 20        | 1720.0 ~ 1770.0 | 18M7W7D    | --              | 0.2037        | 18M8W7D    | --              | 0.1496        |
| n66_EN-DC |                 | 256QAM     |                 |               |            |                 |               |
| BW (MHz)  | Feq. (MHz)      | Designator | Tolerance (ppm) | Max Power (W) |            |                 |               |
| 5         | 1712.5 ~ 1777.5 | 4M46W7D    | --              | 0.0861        |            |                 |               |
| 10        | 1715.0 ~ 1775.0 | 9M18W7D    | --              | 0.0927        |            |                 |               |
| 15        | 1717.5 ~ 1772.5 | 14M0W7D    | --              | 0.0873        |            |                 |               |
| 20        | 1720.0 ~ 1770.0 | 18M7W7D    | --              | 0.0899        |            |                 |               |

| n71_EN-DC |               | PI/2 BPSK  |                 |               | QPSK       |                 |               |
|-----------|---------------|------------|-----------------|---------------|------------|-----------------|---------------|
| BW (MHz)  | Feq. (MHz)    | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5         | 619.5 ~ 649.5 | 4M47F9W    | --              | 0.2350        | 4M46G7D    | --              | 0.2307        |
| 10        | 622.0 ~ 647.0 | 9M21F9W    | --              | 0.2344        | 9M25G7D    | --              | 0.2350        |
| 15        | 624.5 ~ 644.5 | 13M9F9W    | --              | 0.2388        | 13M9G7D    | --              | 0.2399        |
| 20        | 627.0 ~ 642.0 | 18M6F9W    | --              | 0.2371        | 18M6G7D    | -0.0089         | 0.2393        |
| n71_EN-DC |               | 16QAM      |                 |               | 64QAM      |                 |               |
| BW (MHz)  | Feq. (MHz)    | Designator | Tolerance (ppm) | Max Power (W) | Designator | Tolerance (ppm) | Max Power (W) |
| 5         | 619.5 ~ 649.5 | 4M46W7D    | --              | 0.2506        | 4M45W7D    | --              | 0.1841        |
| 10        | 622.0 ~ 647.0 | 9M22W7D    | --              | 0.2455        | 9M21W7D    | --              | 0.1671        |
| 15        | 624.5 ~ 644.5 | 13M9W7D    | --              | 0.2483        | 14M0W7D    | --              | 0.1816        |
| 20        | 627.0 ~ 642.0 | 18M7W7D    | --              | 0.2404        | 18M7W7D    | --              | 0.1746        |
| n71_EN-DC |               | 256QAM     |                 |               |            |                 |               |
| BW (MHz)  | Feq. (MHz)    | Designator | Tolerance (ppm) | Max Power (W) |            |                 |               |
| 5         | 619.5 ~ 649.5 | 4M46W7D    | --              | 0.1030        |            |                 |               |
| 10        | 622.0 ~ 647.0 | 9M20W7D    | --              | 0.1035        |            |                 |               |
| 15        | 624.5 ~ 644.5 | 14M0W7D    | --              | 0.1064        |            |                 |               |
| 20        | 627.0 ~ 642.0 | 18M5W7D    | --              | 0.1050        |            |                 |               |

## 2.8. Test Mode

| Test Item                    | Test Channel | Channel Bandwidth (MHz)     | Modulation Type                       | RB#            |
|------------------------------|--------------|-----------------------------|---------------------------------------|----------------|
| n2, n5, n7, n25, n66, n71    |              |                             |                                       |                |
| Output Power & EIRP          | L, M, H      | 5, 10, 15, 20               | PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM | 1/Half/Full RB |
| Peak to Average Ratio        | L, M, H      | 20                          | QPSK, 16QAM, 64QAM, 256QAM            | Full RB        |
| Emission Bandwidth           | L, M, H      | 5, 10, 15, 20               | QPSK, 16QAM, 64QAM, 256QAM            | Full RB        |
| Frequency Stability          | M            | 20                          | QPSK                                  | Full RB        |
| Band Edge Measurements       | L, H         | 5, 10, 15, 20               | QPSK                                  | 1 RB/Full RB   |
| Conducted Spurious Emissions | L, M, H      | 5, 10, 15, 20               | QPSK                                  | 1 RB           |
| Radiated Spurious Emissions  | L, M, H      | 5                           | QPSK                                  | 1 RB           |
| n12                          |              |                             |                                       |                |
| Output Power & EIRP          | L, M, H      | 5, 10, 15                   | PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM | 1/Half/Full RB |
| Peak to Average Ratio        | L, M, H      | 15                          | QPSK, 16QAM, 64QAM, 256QAM            | Full RB        |
| Emission Bandwidth           | L, M, H      | 5, 10, 15                   | QPSK, 16QAM, 64QAM, 256QAM            | Full RB        |
| Frequency Stability          | M            | 15                          | QPSK                                  | Full RB        |
| Band Edge Measurements       | L, H         | 5, 10, 15                   | QPSK                                  | 1 RB/Full RB   |
| Conducted Spurious Emissions | L, M, H      | 5, 10, 15                   | QPSK                                  | 1 RB           |
| Radiated Spurious Emissions  | L, M, H      | 5                           | QPSK                                  | 1 RB           |
| n41                          |              |                             |                                       |                |
| Output Power & EIRP          | L, M, H      | 20, 30, 40, 50, 60, 80, 100 | PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM | 1/Half/Full RB |
| Peak to Average Ratio        | L, M, H      | 100                         | QPSK, 16QAM, 64QAM, 256QAM            | Full RB        |
| Emission Bandwidth           | L, M, H      | 20, 30, 40, 50, 60, 80, 100 | QPSK, 16QAM, 64QAM, 256QAM            | Full RB        |
| Frequency Stability          | M            | 100                         | QPSK                                  | Full RB        |
| Band Edge Measurements       | L, H         | 20, 30, 40, 50, 60, 80, 100 | QPSK                                  | 1 RB/Full RB   |
| Conducted Spurious Emissions | L, M, H      | 20, 30, 40, 50, 60, 80, 100 | QPSK                                  | 1 RB           |
| Radiated Spurious Emissions  | L, M, H      | 20                          | QPSK                                  | 1 RB           |
| n77                          |              |                             |                                       |                |
| Output Power & EIRP          | L, M, H      | 100                         | PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM | 1/Half/Full RB |
| Peak to Average Ratio        | L, M, H      | 100                         | QPSK, 16QAM, 64QAM, 256QAM            | Full RB        |
| Emission Bandwidth           | L, M, H      | 100                         | QPSK, 16QAM, 64QAM, 256QAM            | Full RB        |
| Frequency Stability          | M            | 100                         | QPSK                                  | Full RB        |
| Band Edge Measurements       | L, H         | 100                         | QPSK                                  | 1 RB/Full RB   |
| Conducted Spurious Emissions | L, M, H      | 100                         | QPSK                                  | 1 RB           |
| Radiated Spurious Emissions  | L, M, H      | 100                         | QPSK                                  | 1 RB           |

## 2.9. Configuration of Tested System



## 2.10. Test Environment Condition

|                     |            |
|---------------------|------------|
| Ambient Temperature | 15 ~ 35°C  |
| Relative Humidity   | 20 ~ 75%RH |

### 3. TEST EQUIPMENT CALIBRATION DATE

#### Radiated Emission - AC1 (WZ)

| Instrument                    | Manufacturer     | Type No.    | Asset No.   | Cali. Interval | Cali. Due Date |
|-------------------------------|------------------|-------------|-------------|----------------|----------------|
| EMI Test Receiver             | R&S              | ESR7        | MRTSUE06001 | 1 year         | 2021/08/01     |
| UXM 5G Wireless Test Platform | Keysight         | E7515B      | MRTSUE06869 | 1 year         | 2021/05/25     |
| PXA Signal Analyzer           | Keysight         | 9030B       | MRTSUE06395 | 1 year         | 2021/09/03     |
| Loop Antenna                  | Schwarzbeck      | FMZB 1519   | MRTSUE06025 | 1 year         | 2021/11/10     |
| Bilog Period Antenna          | Schwarzbeck      | VULB 9168   | MRTSUE06172 | 1 year         | 2021/03/31     |
| Broad Band Horn Antenna       | Schwarzbeck      | BBHA 9120D  | MRTSUE06023 | 1 year         | 2021/10/13     |
| Broad Band Horn Antenna       | Schwarzbeck      | BBHA 9170   | MRTSUE06597 | 1 year         | 2021/02/23     |
| Microwave System Amplifier    | Agilent          | 83017A      | MRTSUE06076 | 1 year         | 2021/11/15     |
| Preamplifier                  | Schwarzbeck      | BBV 9721    | MRTSUE06121 | 1 year         | 2021/06/11     |
| EMC Cable                     | HUBER+SUHN<br>ER | SF126       | MRTSUE06883 | 1 year         | 2021/04/11     |
| Thermohygrometer              | Testo            | 608-H1      | MRTSUE06403 | 1 year         | 2021/08/08     |
| Anechoic Chamber              | TDK              | Chamber-AC1 | MRTSUE06212 | 1 year         | 2021/04/30     |

#### Radiated Emission - AC2 (WZ)

| Instrument                     | Manufacturer     | Type No.    | Asset No.   | Cali. Interval | Cali. Due Date |
|--------------------------------|------------------|-------------|-------------|----------------|----------------|
| Spectrum Analyzer              | Keysight         | N9038A      | MRTSUE06125 | 1 year         | 2021/08/01     |
| UXM 5G Wireless Test Platform  | Keysight         | E7515B      | MRTSUE06869 | 1 year         | 2021/05/25     |
| Loop Antenna                   | Schwarzbeck      | FMZB 1519   | MRTSUE06025 | 1 year         | 2021/11/10     |
| Bilog Period Antenna           | Schwarzbeck      | VULB 9162   | MRTSUE06022 | 1 year         | 2021/10/13     |
| Horn Antenna                   | Schwarzbeck      | BBHA9120D   | MRTSUE06171 | 1 year         | 2021/10/27     |
| Broad Band Horn Antenna        | Schwarzbeck      | BBHA 9170   | MRTSUE06597 | 1 year         | 2021/02/23     |
| Broadband Coaxial Preamplifier | Schwarzbeck      | BBV 9718    | MRTSUE06176 | 1 year         | 2021/11/15     |
| Preamplifier                   | Schwarzbeck      | BBV 9721    | MRTSUE06121 | 1 year         | 2021/06/11     |
| EMC Cable                      | HUBER+SUHN<br>ER | SF126       | MRTSUE06733 | 1 year         | 2021/04/11     |
| Temperature/Humidity Meter     | Minggao          | ETH529      | MRTSUE06170 | 1 year         | 2020/12/15     |
| Anechoic Chamber               | RIKEN            | Chamber-AC2 | MRTSUE06213 | 1 year         | 2021/04/30     |

## Conducted Test Equipment - SR6 (WZ)

| Instrument                     | Manufacturer | Type No.  | Asset No.   | Cali. Interval | Cali. Due Date |
|--------------------------------|--------------|-----------|-------------|----------------|----------------|
| EXA Signal Analyzer            | Agilent      | N9020A    | MRTSUE06106 | 1 year         | 2021/04/15     |
| EXA Signal Analyzer            | Keysight     | N9010B    | MRTSUE06452 | 1 year         | 2021/07/11     |
| Signal Analyzer                | R&S          | FSV40     | MRTSUE06218 | 1 year         | 2021/04/15     |
| Power Meter                    | Agilent      | U2021XA   | MRTSUE06030 | 1 year         | 2021/11/18     |
| DC Power Supply                | GWINSTEK     | DPS-3303C | MRTSUE06064 | N/A            | N/A            |
| True RMS Clamp Meter           | Fluke        | 319       | MRTSUE06080 | 1 year         | 2021/05/06     |
| Directional Coupler            | Agilent      | 87301D    | MRTSUE06082 | 1 year         | 2021/03/25     |
| Attenuator                     | MVE          | 6dB       | MRTSUE06534 | 1 year         | 2020/12/12     |
| Attenuator                     | MVE          | 10dB      | MRTSUE06543 | 1 year         | 2020/12/12     |
| Temperature & Humidity Chamber | BAOYT        | BYH-150CL | MRTSUE06051 | 1 year         | 2021/11/07     |
| Thermohygrometer               | testo        | 608-H1    | MRTSUE06401 | 1 year         | 2021/08/08     |

| Software     | Version | Function          |
|--------------|---------|-------------------|
| EMI Software | V3      | EMI Test Software |

#### 4. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

|                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Radiated Spurious Emissions</b>                                                                                                                                                                                                                  |
| Measurement Uncertainty for a Level of Confidence of 95% ( $U=2U_c(y)$ ):<br>Horizontal: 9kHz ~ 300MHz: 5.04dB<br>300MHz ~ 1GHz: 4.95dB<br>1GHz ~ 40GHz: 6.40dB<br>Vertical: 9kHz ~ 300MHz: 5.24dB<br>300MHz ~ 1GHz: 6.03dB<br>1GHz ~ 40GHz: 6.40dB |
| <b>Conducted Spurious Emissions</b>                                                                                                                                                                                                                 |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_c(y)$ ):<br>0.78dB                                                                                                                                                                   |
| <b>Output Power</b>                                                                                                                                                                                                                                 |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_c(y)$ ):<br>1.13dB                                                                                                                                                                   |
| <b>Occupied Bandwidth</b>                                                                                                                                                                                                                           |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_c(y)$ ):<br>0.28%                                                                                                                                                                    |
| <b>Frequency Stability</b>                                                                                                                                                                                                                          |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_c(y)$ ):<br>76.2Hz                                                                                                                                                                   |



## 5. TEST RESULT

### 5.1. Summary

| FCC Part<br>Section(s)                                 | Test<br>Description                                        | Test<br>Limit                          | Test<br>Condition | Test<br>Result | Reference           |
|--------------------------------------------------------|------------------------------------------------------------|----------------------------------------|-------------------|----------------|---------------------|
| 2.1049                                                 | Occupied Bandwidth                                         | N/A                                    | Conducted         | Pass           | Section 5.2         |
| 2.1055, 22.355<br>24.235, 27.54                        | Frequency Stability                                        | < 2.5 ppm                              |                   | Pass           | Section 5.3         |
| 22.913(a)(5)                                           | Equivalent Radiated Power<br>(n5)                          | < 7 Watts Max ERP                      |                   | Pass           | Section 5.4         |
| 27.50(c)(10)                                           | Equivalent Radiated Power<br>(n12, n71)                    | < 3 Watts Max ERP                      |                   |                |                     |
| 24.232(c)<br>27.50(h)(2)                               | Equivalent Isotropic<br>Radiated Power<br>(n2/25, n7, n41) | < 2 Watts Max EIRP                     |                   |                |                     |
| 27.50(d)(4)<br>27.50(j)(3)                             | Equivalent Isotropic<br>Radiated Power (n66, n77)          | < 1 Watts Max EIRP                     |                   |                |                     |
| 24.232(d),<br>27.50(d)(5)                              | Peak to Average Ratio                                      | < 13dB                                 |                   | Pass           | Section 5.6         |
| 2.1051, 22.917(a)<br>24.238(a),<br>27.53(g),(h),(l)(2) | Band Edge<br>(n2/25, n66, n5, n12, n71,<br>n77)            | < 43 + 10log10 (P <sub>[Watts]</sub> ) |                   | Pass           | Section<br>5.5, 5.7 |
| 27.53(m)                                               | Band Edge<br>(n7, n41)                                     | 27.53(m)(4)                            |                   |                |                     |
| 2.1051, 22.917(a)<br>24.238(a),<br>27.53(g),(h),(l)(2) | Spurious Emission<br>(n2/25, n66, n5, n12, n71,<br>n77)    | < 43 + 10log10 (P <sub>[Watts]</sub> ) |                   |                |                     |
| 2.1051, 27.53(m)                                       | Spurious Emission<br>(n7, n41)                             | < 55 + 10log10 (P <sub>[Watts]</sub> ) |                   |                |                     |
| 2.1053, 22.917(a)<br>24.238(a),<br>27.53(g),(h),(l)(2) | Spurious Emissions<br>(n2/25, n66, n5, n12, n71,<br>n77)   | < 43 + 10log10 (P <sub>[Watts]</sub> ) | Radiated          | Pass           | Section 5.8         |
| 2.1053, 27.53(m)                                       | Spurious Emissions<br>(n7, n41)                            | 27.53(m)(4)                            |                   |                |                     |

#### Notes:

- The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.

- 2) All supported modulation types were evaluated. The worst-case emission of modulation was selected. Therefore, the Frequency Stability, Channel Band Edge, Conducted & Radiated Spurious Emission were presented worst-case in the test report.

## 5.2. Occupied Bandwidth

### 5.2.1. Test Limit

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.

### 5.2.2. Test Procedure

ANSI C63.26-2015 - Section 5.4

### 5.2.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency
2. RBW = The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW
3. VBW  $\geq 3 \times$  RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. Allow the trace to stabilize
8. Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

### 5.2.4. Test Setup



### 5.2.5.Test Result

|               |                         |           |                         |
|---------------|-------------------------|-----------|-------------------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6                  |
| Test Engineer | Eric Xu                 | Test Date | 2020/10/21 ~ 2020/11/24 |
| Test Band     | n2/25                   |           |                         |

| Channel   | Frequency<br>(MHz) | Bandwidth<br>(MHz) | 99% Bandwidth<br>(MHz) |
|-----------|--------------------|--------------------|------------------------|
| PI/2 BPSK |                    |                    |                        |
| 376500    | 1882.5             | 5                  | 4.45                   |
| 376500    | 1882.5             | 10                 | 9.20                   |
| 376500    | 1882.5             | 15                 | 13.99                  |
| 376500    | 1882.5             | 20                 | 18.68                  |
| QPSK      |                    |                    |                        |
| 376500    | 1882.5             | 5                  | 4.47                   |
| 376500    | 1882.5             | 10                 | 9.24                   |
| 376500    | 1882.5             | 15                 | 13.94                  |
| 376500    | 1882.5             | 20                 | 18.66                  |
| 16QAM     |                    |                    |                        |
| 376500    | 1882.5             | 5                  | 4.46                   |
| 376500    | 1882.5             | 10                 | 9.21                   |
| 376500    | 1882.5             | 15                 | 13.98                  |
| 376500    | 1882.5             | 20                 | 18.72                  |
| 64QAM     |                    |                    |                        |
| 376500    | 1882.5             | 5                  | 4.46                   |
| 376500    | 1882.5             | 10                 | 9.21                   |
| 376500    | 1882.5             | 15                 | 13.95                  |
| 376500    | 1882.5             | 20                 | 18.75                  |
| 256QAM    |                    |                    |                        |
| 376500    | 1882.5             | 5                  | 4.46                   |
| 376500    | 1882.5             | 10                 | 9.20                   |
| 376500    | 1882.5             | 15                 | 13.99                  |
| 376500    | 1882.5             | 20                 | 18.65                  |

## 99% Bandwidth - PI/2 BPSK

### 5MHz Channel Bandwidth



### 10MHz Channel Bandwidth



### 15MHz Channel Bandwidth



### 20MHz Channel Bandwidth



## 99% Bandwidth - QPSK

### 5MHz Channel Bandwidth



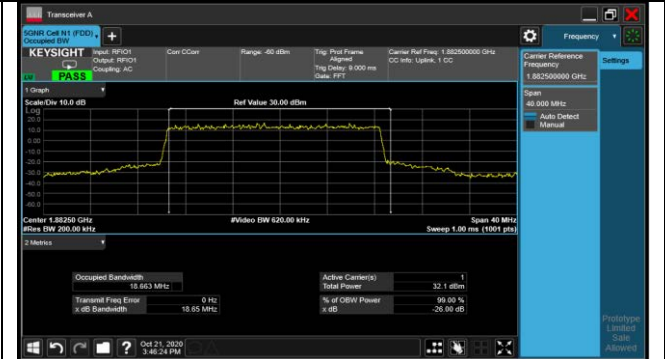
### 10MHz Channel Bandwidth



### 15MHz Channel Bandwidth



### 20MHz Channel Bandwidth

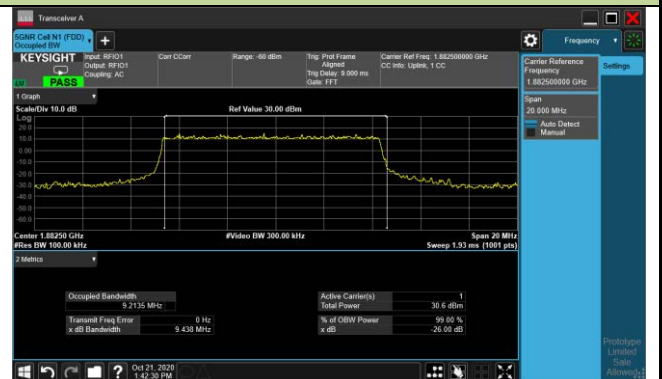


## 99% Bandwidth - 16QAM

### 5MHz Channel Bandwidth



### 10MHz Channel Bandwidth



### 15MHz Channel Bandwidth



### 20MHz Channel Bandwidth



## 99% Bandwidth - 64QAM

### 5MHz Channel Bandwidth



### 10MHz Channel Bandwidth



### 15MHz Channel Bandwidth



### 20MHz Channel Bandwidth





# 99% Bandwidth - 256QAM

## 5MHz Channel Bandwidth



## 10MHz Channel Bandwidth



## 15MHz Channel Bandwidth



## 20MHz Channel Bandwidth



|               |                         |           |            |
|---------------|-------------------------|-----------|------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6     |
| Test Engineer | Eric Xu                 | Test Date | 2020/10/21 |
| Test Band     | n5                      |           |            |

| Channel   | Frequency<br>(MHz) | Bandwidth<br>(MHz) | 99% Bandwidth<br>(MHz) |
|-----------|--------------------|--------------------|------------------------|
| PI/2 BPSK |                    |                    |                        |
| 167300    | 836.5              | 5                  | 4.46                   |
| 167300    | 836.5              | 10                 | 9.20                   |
| 167300    | 836.5              | 15                 | 13.99                  |
| 167300    | 836.5              | 20                 | 18.68                  |
| QPSK      |                    |                    |                        |
| 167300    | 836.5              | 5                  | 4.46                   |
| 167300    | 836.5              | 10                 | 9.25                   |
| 167300    | 836.5              | 15                 | 13.94                  |
| 167300    | 836.5              | 20                 | 18.65                  |
| 16QAM     |                    |                    |                        |
| 167300    | 836.5              | 5                  | 4.47                   |
| 167300    | 836.5              | 10                 | 9.22                   |
| 167300    | 836.5              | 15                 | 13.98                  |
| 167300    | 836.5              | 20                 | 18.73                  |
| 64QAM     |                    |                    |                        |
| 167300    | 836.5              | 5                  | 4.45                   |
| 167300    | 836.5              | 10                 | 9.22                   |
| 167300    | 836.5              | 15                 | 14.00                  |
| 167300    | 836.5              | 20                 | 18.74                  |
| 256QAM    |                    |                    |                        |
| 167300    | 836.5              | 5                  | 4.46                   |
| 167300    | 836.5              | 10                 | 9.21                   |
| 167300    | 836.5              | 15                 | 13.99                  |
| 167300    | 836.5              | 20                 | 18.62                  |



## 99% Bandwidth - PI/2 BPSK

### 5MHz Channel Bandwidth



### 10MHz Channel Bandwidth



### 15MHz Channel Bandwidth



### 20MHz Channel Bandwidth



## 99% Bandwidth - QPSK

### 5MHz Channel Bandwidth



### 10MHz Channel Bandwidth



### 15MHz Channel Bandwidth



### 20MHz Channel Bandwidth



## 10MHz Channel Bandwidth



## 20MHz Channel Bandwidth

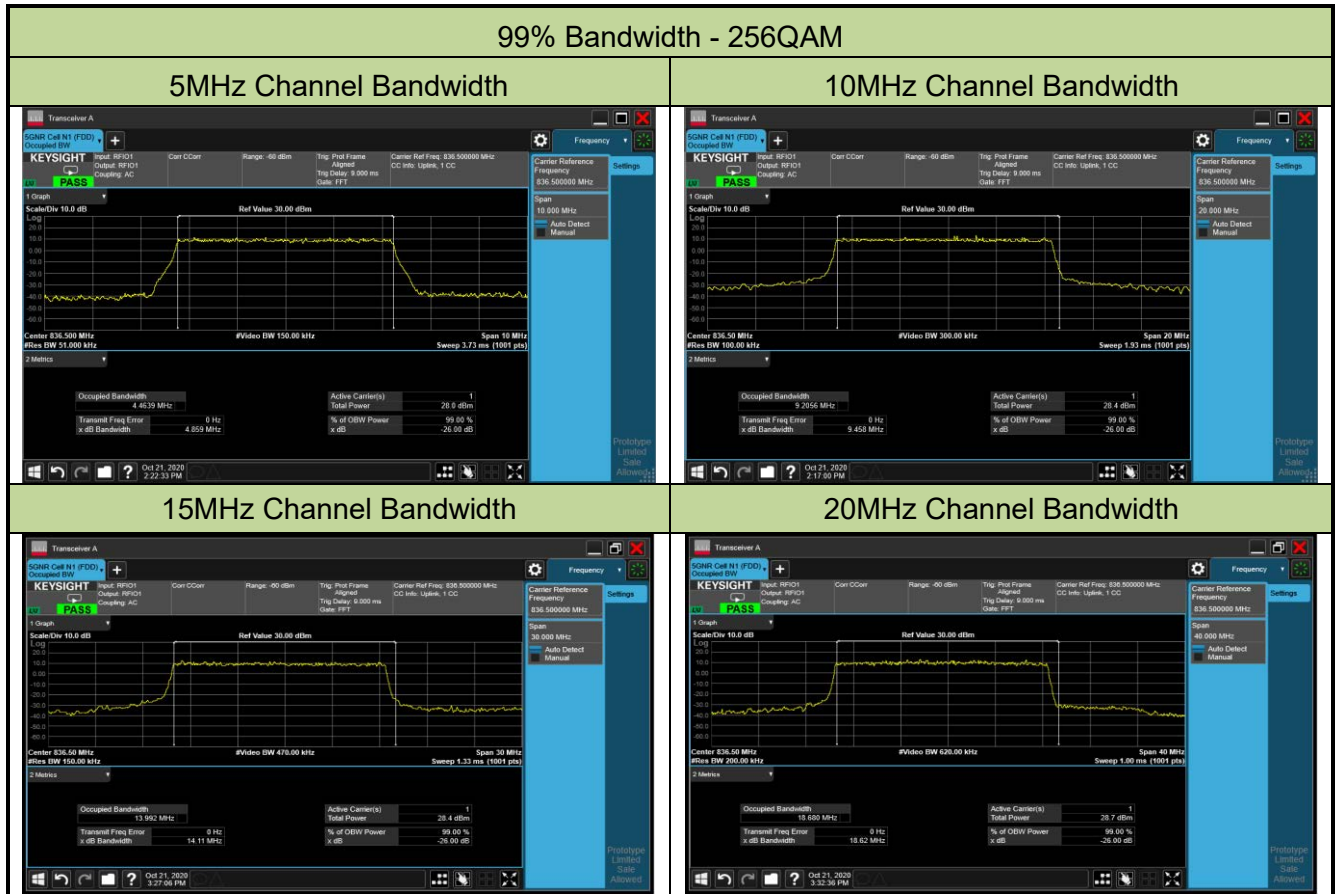


## 10MHz Channel Bandwidth



## 20MHz Channel Bandwidth





|               |                         |           |            |
|---------------|-------------------------|-----------|------------|
| Product       | 5G Sub-6 GHz M.2 Module | Test Site | WZ-SR6     |
| Test Engineer | Eric Xu                 | Test Date | 2020/10/21 |
| Test Band     | n7                      |           |            |

| Channel   | Frequency<br>(MHz) | Bandwidth<br>(MHz) | 99% Bandwidth<br>(MHz) |
|-----------|--------------------|--------------------|------------------------|
| PI/2 BPSK |                    |                    |                        |
| 507000    | 2535.0             | 5                  | 4.46                   |
| 507000    | 2535.0             | 10                 | 9.20                   |
| 507000    | 2535.0             | 15                 | 14.01                  |
| 507000    | 2535.0             | 20                 | 18.73                  |
| QPSK      |                    |                    |                        |
| 507000    | 2535.0             | 5                  | 4.46                   |
| 507000    | 2535.0             | 10                 | 9.26                   |
| 507000    | 2535.0             | 15                 | 13.95                  |
| 507000    | 2535.0             | 20                 | 18.73                  |
| 16QAM     |                    |                    |                        |
| 507000    | 2535.0             | 5                  | 4.46                   |
| 507000    | 2535.0             | 10                 | 9.24                   |
| 507000    | 2535.0             | 15                 | 13.99                  |
| 507000    | 2535.0             | 20                 | 18.74                  |
| 64QAM     |                    |                    |                        |
| 507000    | 2535.0             | 5                  | 4.46                   |
| 507000    | 2535.0             | 10                 | 9.21                   |
| 507000    | 2535.0             | 15                 | 13.99                  |
| 507000    | 2535.0             | 20                 | 18.76                  |
| 256QAM    |                    |                    |                        |
| 507000    | 2535.0             | 5                  | 4.46                   |
| 507000    | 2535.0             | 10                 | 9.21                   |
| 507000    | 2535.0             | 15                 | 14.00                  |
| 507000    | 2535.0             | 20                 | 18.72                  |