

# FCC RF Test Report

APPLICANT : Ericsson Enterprise Wireless Solutions, Inc.  
EQUIPMENT : 5G Sub-6 GHz LGA Module  
BRAND NAME : Ericsson  
MODEL NAME : RG650V-NA  
FCC ID : UXX-2024RG650VNA  
STANDARD : 47 CFR Part 90(R)  
CLASSIFICATION : PCS Licensed Transmitter (PCB)  
TEST DATE(S) : Dec. 23, 2024 ~ Jan. 24, 2025

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (ShenZhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



**Sporton International Inc. (ShenZhen)**

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**People's Republic of China**

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## REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE   |
|------------|---------|-------------------------|---------------|
| FG4D0656I  | Rev. 01 | Initial issue of report | Feb. 17, 2025 |
|            |         |                         |               |
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|            |         |                         |               |

## SUMMARY OF TEST RESULT

| Report Section | FCC Rule                                 | Description                | Limit                               | Result | Remark                                       |
|----------------|------------------------------------------|----------------------------|-------------------------------------|--------|----------------------------------------------|
| 3.2            | §2.1046                                  | Conducted Output Power     | —                                   | PASS   | -                                            |
|                | §90.542 (a)(7)                           | Effective Radiated Power   | ERP < 3Watt                         |        | -                                            |
| 4.4            | §2.1053<br>§90.543 (e)(3)<br>§90.543 (f) | Radiated Spurious Emission | < 43+10log <sub>10</sub> (P[Watts]) | PASS   | Under limit<br>10.97 dB at<br>4611.00<br>MHz |

**Remark :** This report by changing module trace design and adding Antenna.

### Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

### Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

# 1 General Description

## 1.1 Applicant

Ericsson Enterprise Wireless Solutions, Inc.  
1100 W. Idaho St. Boise, ID 83702

## 1.2 Manufacturer

Ericsson Enterprise Wireless Solutions, Inc.  
1100 W. Idaho St. Boise, ID 83702

## 1.3 Feature of Equipment Under Test

| Product Feature    |                                                                                                 |
|--------------------|-------------------------------------------------------------------------------------------------|
| Equipment          | 5G Sub-6 GHz LGA Module                                                                         |
| Brand Name         | Ericsson                                                                                        |
| Model Name         | RG650V-NA                                                                                       |
| FCC ID             | UXX-2024RG650VNA                                                                                |
| Tx Frequency       | 5G NR n14: 788 MHz ~ 798 MHz                                                                    |
| Rx Frequency       | 5G NR n14: 758 MHz ~ 768 MHz                                                                    |
| Bandwidth          | 5MHz / 10MHz                                                                                    |
| Antenna Gain       | <Ant.1>: 3.16 dBi                                                                               |
| Antenna Type       | Dipole Antenna                                                                                  |
| Type of Modulation | CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM<br>DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM |
| IMEI Code          | Conducted: 357214899990622<br>Radiation: 866838070003881                                        |
| HW Version         | RG650V-NA                                                                                       |
| SW Version         | RG650VNA01AAR01A04G8G                                                                           |
| EUT Stage          | Production Unit                                                                                 |

### Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. ENDC combinations only test RSE, only the worse modes are shown in the report.
3. The EN-DC mode combination could be referred to the product spec.

## 1.4 Maximum Conducted Power

| 5G NR n14 |                       | PI/2 BPSK / QPSK            | 16QAM / 64QAM / 256QAM      |
|-----------|-----------------------|-----------------------------|-----------------------------|
| BW (MHz)  | Frequency Range (MHz) | Maximum Conducted power (W) | Maximum Conducted power (W) |
| 5         | 790.5~795.5           | 0.1959                      | 0.1589                      |
| 10        | 793                   | 0.1991                      | 0.1581                      |

## 1.5 Testing Site

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

|                           |                                                                                                                                                                         |                            |                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------|
| <b>Test Firm</b>          | Sporton International Inc. (ShenZhen)                                                                                                                                   |                            |                                       |
| <b>Test Site Location</b> | 1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China<br>TEL: +86-755-86379589<br>FAX: +86-755-86379595 |                            |                                       |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                                                                                 | <b>FCC Designation No.</b> | <b>FCC Test Firm Registration No.</b> |
|                           | TH01-SZ                                                                                                                                                                 | CN1256                     | 421272                                |

|                           |                                                                                                                                                                                                                 |                            |                                       |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------|
| <b>Test Firm</b>          | Sporton International Inc. (ShenZhen)                                                                                                                                                                           |                            |                                       |
| <b>Test Site Location</b> | 101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China<br>TEL: +86-755-86066985 |                            |                                       |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                                                                                                                         | <b>FCC Designation No.</b> | <b>FCC Test Firm Registration No.</b> |
|                           | 03CH02-SZ                                                                                                                                                                                                       | CN1256                     | 421272                                |

## 1.6 Test Software

| Item | Site      | Manufacture | Name | Version      |
|------|-----------|-------------|------|--------------|
| 1.   | 03CH02-SZ | AUDIX       | E3   | 6.2009-8-24a |

## 1.7 Applied Standards

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

- 47 CFR Part 90(R)
- ANSI C63.26
- KDB 971168 D01 Power Meas License Digital Systems v03r01
- KDB 412172 D01 Determining ERP and EIRP v01r01

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.



## 2 Test Configuration of Equipment Under Test

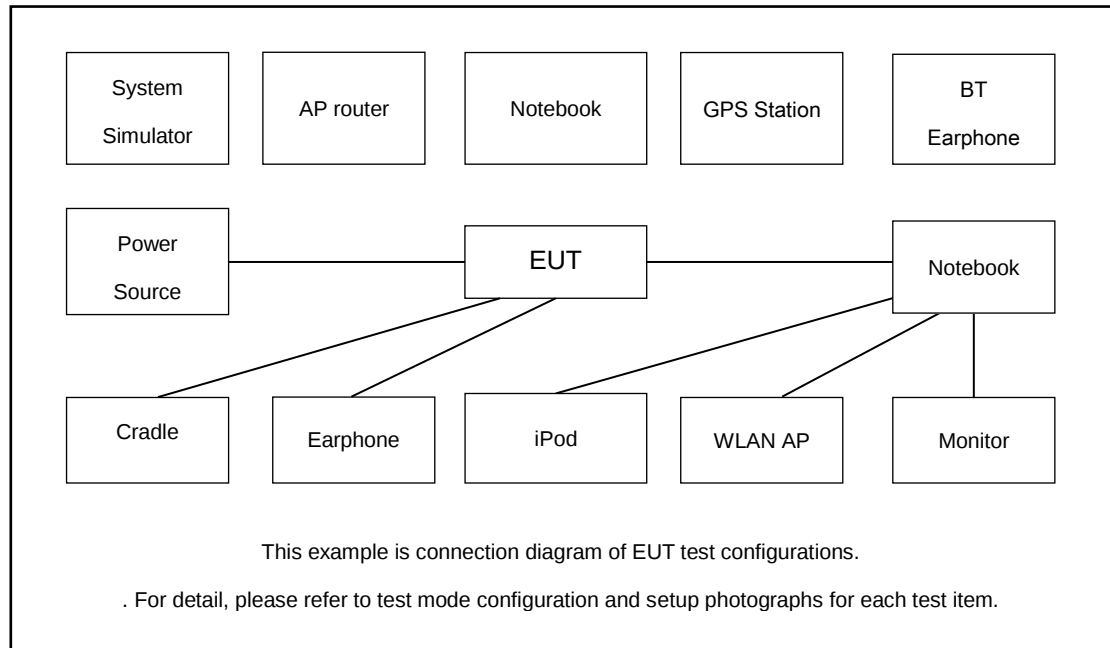
### 2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

| Conducted Test Cases       | Band                                                                                                                                                                                                                                                                                                                                                                                | Bandwidth (MHz) |   |   |    |    |    | Modulation |      |       |       |        | RB # |      |      | Test Channel |   |   |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---|---|----|----|----|------------|------|-------|-------|--------|------|------|------|--------------|---|---|
|                            |                                                                                                                                                                                                                                                                                                                                                                                     | 1.4             | 3 | 5 | 10 | 15 | 20 | PI/2 BPSK  | QPSK | 16QAM | 64QAM | 256QAM | 1    | Half | Full | L            | M | H |
| Max. Output Power          | n14                                                                                                                                                                                                                                                                                                                                                                                 | -               | - | V |    | -  | -  | V          | V    | V     |       |        | V    |      |      | V            | V | V |
|                            | n14                                                                                                                                                                                                                                                                                                                                                                                 | -               | - |   | V  | -  | -  | V          | V    | V     |       |        | V    |      |      |              | V |   |
| E.R.P                      | n14                                                                                                                                                                                                                                                                                                                                                                                 | -               | - | V |    | -  | -  | V          | V    | V     |       |        | V    |      |      | V            | V | V |
|                            | n14                                                                                                                                                                                                                                                                                                                                                                                 | -               | - |   | V  | -  | -  | V          | V    | V     |       |        | V    |      |      |              | V |   |
| Radiated Spurious Emission | n14                                                                                                                                                                                                                                                                                                                                                                                 | worse case      |   |   |    |    |    |            |      |       |       |        |      |      |      | V            | V | V |
| Note                       | 1. The mark “v ” means that this configuration is chosen for testing<br>2. The mark “-” means that this bandwidth is not supported.<br>3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. |                 |   |   |    |    |    |            |      |       |       |        |      |      |      |              |   |   |

## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration and system

| Item | Equipment    | Trade Name | Model No. | FCC ID  | Data Cable | Power Cord     |
|------|--------------|------------|-----------|---------|------------|----------------|
| 1.   | Base Station | Anritsu    | MT8821C   | Fcc DoC | N/A        | Shielded, 1.5m |
| 2.   | Base Station | Anritsu    | MT8000A   | Fcc DoC | N/A        | Shielded, 1.5m |

## 2.4 Frequency List of Low/Middle/High Channels

| 5G NR n14 Channel and Frequency List |                        |        |        |         |
|--------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                             | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                   | Channel                | 158600 |        |         |
|                                      | Frequency              | 793    |        |         |
| 5                                    | Channel                | 158100 | 158600 | 159100  |
|                                      | Frequency              | 790.5  | 793    | 795.5   |

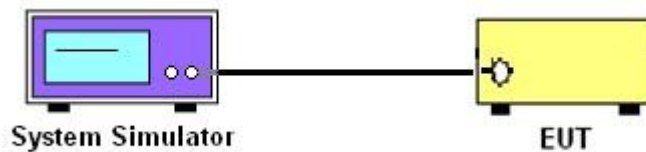
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

See list of measuring instruments of this test report.

##### 3.1.1 Test Setup

##### 3.1.2 Conducted Output Power



##### 3.1.3 Test Result of Conducted Test

Please refer to Appendix A.

#### 3.2 Conducted Output Power and ERP

##### 3.2.1 Description of the Conducted Output Power Measurement and ERP

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 3 Watts for 5G NR n14.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$ ,  $ERP = EIRP - 2.15$ , where

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

$L_C$  = signal attenuation in the connecting cable between the transmitter and antenna in dB

##### 3.2.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

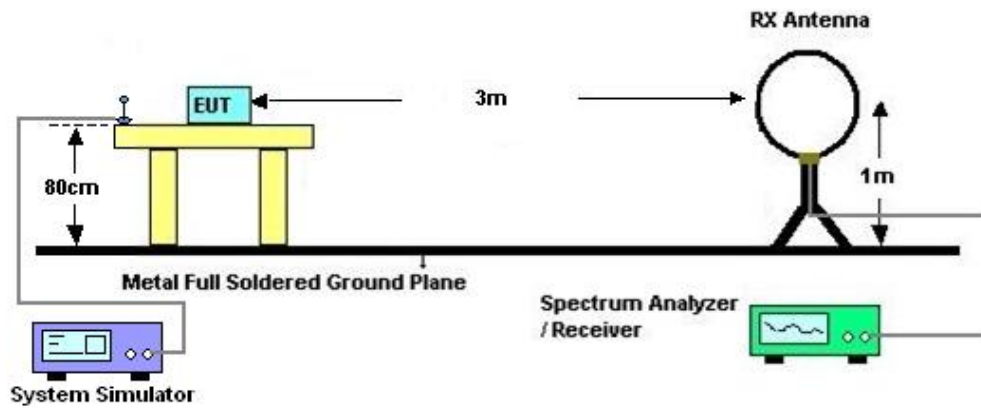
## 4 Radiated Test Items

### 4.1 Measuring Instruments

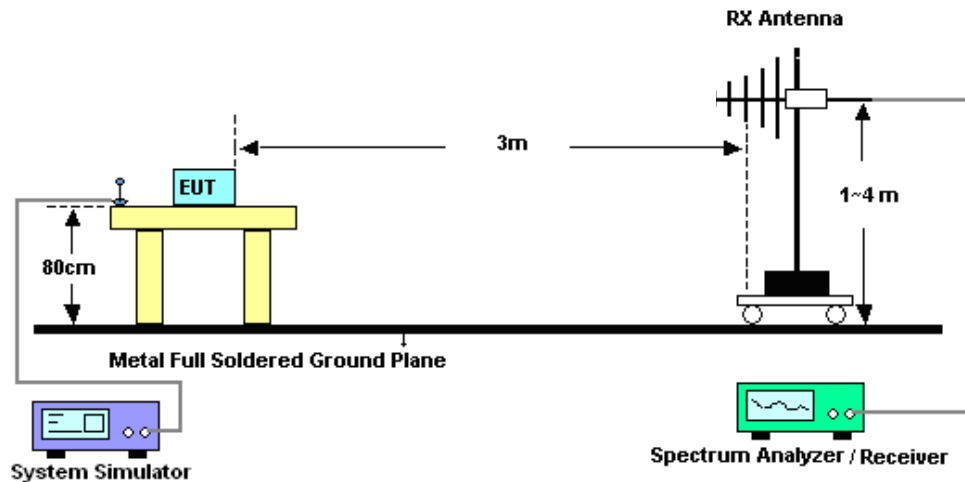
See list of measuring instruments of this test report.

### 4.2 Test Setup

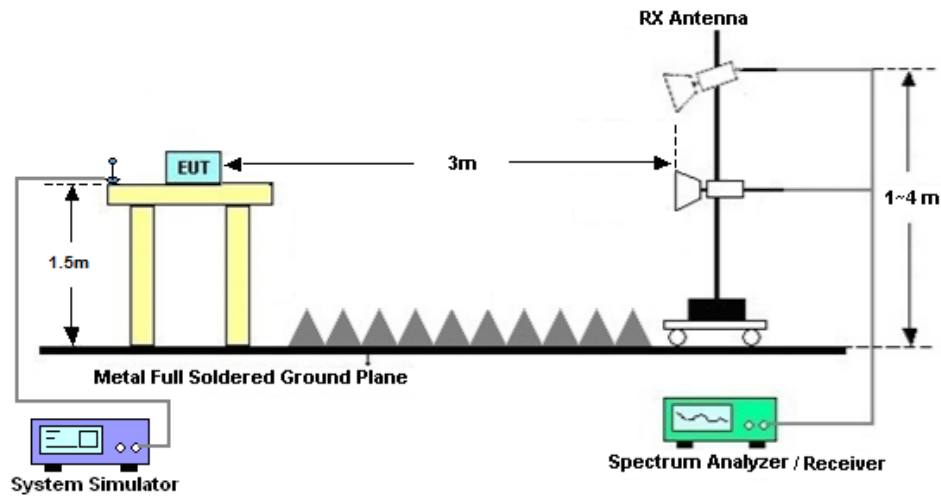
#### 4.2.1 For radiated test below 30MHz



#### 4.2.2 For radiated test from 30MHz to 1GHz



#### 4.2.3 For radiated test above 1GHz



### 4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

## 4.4 Radiated Spurious Emission Measurement

### 4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26.

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

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

### 4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
1. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9.  $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
10.  $ERP \text{ (dBm)} = EIRP - 2.15$
11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)  
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$   
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$   
 $= -13\text{dBm}.$



## 5 List of Measuring Equipment

| Instrument                | Manufacturer | Model No.     | Serial No.   | Characteristics | Calibration Date | Test Date     | Due Date      | Remark                |
|---------------------------|--------------|---------------|--------------|-----------------|------------------|---------------|---------------|-----------------------|
| Spectrum Analyzer         | R&S          | FSV40         | 101078       | 10Hz~40GHz      | Apr. 09, 2024    | Jan. 24, 2025 | Apr. 08, 2025 | Conducted (TH01-SZ)   |
| DC Power Supply           | TTI          | PL330P        | 290070       | Max 32V , 3A    | Oct. 14, 2024    | Jan. 24, 2025 | Oct. 13, 2025 | Conducted (TH01-SZ)   |
| Power Divider             | Titan        | P02N005180    | 923402       | 0.4GHz~26.5GHz  | Nov. 08, 2024    | Jan. 24, 2025 | Nov. 07, 2025 | Conducted (TH01-SZ)   |
| EXA Spectrum Analyzer     | KEYSIGHT     | N9010A        | MY55150213   | 10Hz~44GHz      | Jul. 03, 2024    | Dec. 23, 2024 | Jul. 02, 2025 | Radiation (03CH02-SZ) |
| Loop Antenna              | R&S          | HFH2-Z2E      | 101141       | 9kHz~30MHz      | Dec. 29, 2023    | Dec. 23, 2024 | Dec. 28, 2024 | Radiation (03CH02-SZ) |
| Bilog Antenna             | TeseQ        | CBL6112D      | 35407        | 30MHz~2GHz      | Oct. 24, 2023    | Dec. 23, 2024 | Oct. 23, 2025 | Radiation (03CH02-SZ) |
| Double Ridge Horn Antenna | ETS-Lindgren | 3117          | 00119436     | 1GHz~18GHz      | Jul. 04, 2024    | Dec. 23, 2024 | Jul. 04, 2025 | Radiation (03CH02-SZ) |
| HF Amplifier              | MITEQ        | TTA1840-35-HG | 1871923      | 18GHz~40GHz     | Jul. 03, 2024    | Dec. 23, 2024 | Jul. 03, 2025 | Radiation (03CH02-SZ) |
| SHF-EHF Horn              | com-power    | AH-840        | 101071       | 18GHz~40GHz     | Apr. 09, 2024    | Dec. 23, 2024 | Apr. 08, 2025 | Radiation (03CH02-SZ) |
| LF Amplifier              | Burgeon      | BPA-530       | 102211       | 0.01~3000Mhz    | Oct. 18, 2024    | Dec. 23, 2024 | Oct. 17, 2025 | Radiation (03CH02-SZ) |
| HF Amplifier              | KEYSIGHT     | 83017A        | MY53270105   | 0.5GHz~26.5Ghz  | Oct. 14, 2024    | Dec. 23, 2024 | Oct. 13, 2025 | Radiation (03CH02-SZ) |
| AC Power Source           | Chroma       | 61601         | 616010003043 | N/A             | Oct. 18, 2024    | Dec. 23, 2024 | Oct. 17, 2025 | Radiation (03CH02-SZ) |
| Turn Table                | Chaintek     | T-200         | N/A          | 0~360 degree    | NCR              | Dec. 23, 2024 | NCR           | Radiation (03CH02-SZ) |
| Antenna Mast              | Chaintek     | MBS-400       | N/A          | 1 m~4 m         | NCR              | Dec. 23, 2024 | NCR           | Radiation (03CH02-SZ) |

NCR: No Calibration Required

## 6 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage  $K=2$  to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

### Uncertainty of Conducted Measurement

| Test Item       | Uncertainty   |
|-----------------|---------------|
| Conducted Power | $\pm 1.34$ dB |

### Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 2.47 dB |
|-------------------------------------------------------------------------|---------|

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 2.47 dB |
|-------------------------------------------------------------------------|---------|

### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.31 dB |
|-------------------------------------------------------------------------|---------|

### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.72 dB |
|-------------------------------------------------------------------------|---------|

----- THE END -----

## Appendix A. Test Results of Conducted Test

|                 |            |                     |         |
|-----------------|------------|---------------------|---------|
| Test Engineer : | Khan Zheng | Temperature :       | 22~23°C |
|                 |            | Relative Humidity : | 40~42%  |

### Conducted Output Power(Average power) and ERP

| NR Band | SCS | BandWidth | Arfcn  | Freq(MHz) | Modulation           | RB  | Conducted Power(dBm) | ERP(dBm) | ERP(W) |
|---------|-----|-----------|--------|-----------|----------------------|-----|----------------------|----------|--------|
| 14      | 15  | 5         | 158100 | 790.5     | DFT-s-OFDM PI/2 BPSK | 1@1 | 22.84                | 23.85    | 0.2427 |
| 14      | 15  | 5         | 158100 | 790.5     | DFT-s-OFDM QPSK      | 1@1 | 22.88                | 23.89    | 0.2449 |
| 14      | 15  | 5         | 158100 | 790.5     | DFT-s-OFDM 16 QAM    | 1@1 | 22.01                | 23.02    | 0.2004 |
| 14      | 15  | 5         | 158600 | 793       | DFT-s-OFDM PI/2 BPSK | 1@1 | 22.79                | 23.8     | 0.2399 |
| 14      | 15  | 5         | 158600 | 793       | DFT-s-OFDM QPSK      | 1@1 | 22.87                | 23.88    | 0.2443 |
| 14      | 15  | 5         | 158600 | 793       | DFT-s-OFDM 16 QAM    | 1@1 | 21.96                | 22.97    | 0.1982 |
| 14      | 15  | 5         | 159100 | 795.5     | DFT-s-OFDM PI/2 BPSK | 1@1 | 22.88                | 23.89    | 0.2449 |
| 14      | 15  | 5         | 159100 | 795.5     | DFT-s-OFDM QPSK      | 1@1 | 22.92                | 23.93    | 0.2472 |
| 14      | 15  | 5         | 159100 | 795.5     | DFT-s-OFDM 16 QAM    | 1@1 | 21.92                | 22.93    | 0.1963 |
| 14      | 15  | 10        | 158600 | 793       | DFT-s-OFDM PI/2 BPSK | 1@1 | 22.88                | 23.89    | 0.2449 |
| 14      | 15  | 10        | 158600 | 793       | DFT-s-OFDM QPSK      | 1@1 | 22.99                | 24       | 0.2512 |
| 14      | 15  | 10        | 158600 | 793       | DFT-s-OFDM 16 QAM    | 1@1 | 21.99                | 23       | 0.1995 |



## Appendix B. Test Results of Radiated Test

## Field Strength of Spurious Radiated

|                 |            |                     |         |
|-----------------|------------|---------------------|---------|
| Test Engineer : | Reid Huang | Temperature :       | 22~25°C |
|                 |            | Relative Humidity : | 48~52%  |

| 5G NR n14 SA / 5MHz / BPSK / ANT 1                                                       |                   |             |               |                   |                   |                    |                      |                       |                    |
|------------------------------------------------------------------------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Bandwidth                                                                                | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest                                                                                   | 1576.4            | -62.95      | -42.15        | -20.80            | -72.88            | -66.18             | 3.98                 | 9.36                  | H                  |
|                                                                                          | 2364.6            | -62.89      | -13           | -49.89            | -77.62            | -66.44             | 4.85                 | 10.55                 | H                  |
|                                                                                          | 3152.8            | -61.20      | -13           | -48.20            | -78.53            | -66.13             | 5.50                 | 12.58                 | H                  |
|                                                                                          | 1576.4            | -64.13      | -42.15        | -21.98            | -74.19            | -67.36             | 3.98                 | 9.36                  | V                  |
|                                                                                          | 2364.6            | -62.98      | -13           | -49.98            | -77.70            | -66.53             | 4.85                 | 10.55                 | V                  |
|                                                                                          | 3152.8            | -61.10      | -13           | -48.10            | -78.43            | -66.03             | 5.50                 | 12.58                 | V                  |
| Middle                                                                                   | 1581.4            | -63.60      | -42.15        | -21.45            | -73.54            | -66.85             | 4.00                 | 9.40                  | H                  |
|                                                                                          | 2372.1            | -62.87      | -13           | -49.87            | -77.55            | -66.44             | 4.88                 | 10.60                 | H                  |
|                                                                                          | 3162.8            | -60.76      | -13           | -47.76            | -78.09            | -65.69             | 5.52                 | 12.60                 | H                  |
|                                                                                          | 1581.4            | -65.61      | -42.15        | -23.46            | -75.68            | -68.86             | 4.00                 | 9.40                  | V                  |
|                                                                                          | 2372.1            | -63.01      | -13           | -50.01            | -77.68            | -66.58             | 4.88                 | 10.60                 | V                  |
|                                                                                          | 3162.8            | -60.86      | -13           | -47.86            | -78.19            | -65.79             | 5.52                 | 12.60                 | V                  |
| Highest                                                                                  | 1586.4            | -62.78      | -42.15        | -20.63            | -72.72            | -65.95             | 4.10                 | 9.42                  | H                  |
|                                                                                          | 2379.6            | -63.00      | -13           | -50.00            | -77.69            | -66.58             | 4.90                 | 10.63                 | H                  |
|                                                                                          | 3172.8            | -60.83      | -13           | -47.83            | -78.25            | -65.75             | 5.55                 | 12.62                 | H                  |
|                                                                                          | 1586.4            | -65.82      | -42.15        | -23.67            | -75.89            | -68.99             | 4.10                 | 9.42                  | V                  |
|                                                                                          | 2379.6            | -62.99      | -13           | -49.99            | -77.67            | -66.57             | 4.90                 | 10.63                 | V                  |
|                                                                                          | 3172.8            | -60.65      | -13           | -47.65            | -78.05            | -65.57             | 5.55                 | 12.62                 | V                  |
| Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line. |                   |             |               |                   |                   |                    |                      |                       |                    |
| Test Result                                                                              |                   |             |               |                   | PASS              |                    |                      |                       |                    |

| 5G NR n14 SA / 10MHz / BPSK / ANT 1                                                      |                   |             |               |                   |                   |                  |                    |                       |                    |
|------------------------------------------------------------------------------------------|-------------------|-------------|---------------|-------------------|-------------------|------------------|--------------------|-----------------------|--------------------|
| Bandwidth                                                                                | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle                                                                                   | 1576.8            | -63.27      | -42.15        | -21.12            | -73.20            | -66.52           | 4.00               | 9.40                  | H                  |
|                                                                                          | 2365.2            | -63.08      | -13           | -50.08            | -77.81            | -66.65           | 4.88               | 10.60                 | H                  |
|                                                                                          | 3153.6            | -61.12      | -13           | -48.12            | -78.45            | -66.05           | 5.52               | 12.60                 | H                  |
|                                                                                          | 1576.8            | -64.68      | -42.15        | -22.53            | -74.74            | -67.93           | 4.00               | 9.40                  | V                  |
|                                                                                          | 2365.2            | -62.96      | -13           | -49.96            | -77.68            | -66.53           | 4.88               | 10.60                 | V                  |
|                                                                                          | 3153.6            | -61.05      | -13           | -48.05            | -78.38            | -65.98           | 5.52               | 12.60                 | V                  |
| Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line. |                   |             |               |                   |                   |                  |                    |                       |                    |
| Test Result                                                                              |                   |             |               |                   | PASS              |                  |                    |                       |                    |



| EN-DC_48A_n14A / LTE 10MHz + NR 10MHz / LTE QPSK + NR BPSK / ANT1                        |                      |                     |                  |                        |                         |                        |                          |                             |                       |
|------------------------------------------------------------------------------------------|----------------------|---------------------|------------------|------------------------|-------------------------|------------------------|--------------------------|-----------------------------|-----------------------|
| Bandwidth                                                                                | Frequency<br>( MHz ) | ERP/EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>(dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>(dBm) | TX Cable<br>loss<br>(dB) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| NR n14<br>Middle                                                                         | 1576.8               | -69.72              | -42.15           | -27.57                 | -59.19                  | -72.97                 | 4.00                     | 9.40                        | H                     |
|                                                                                          | 2365.2               | -66.33              | -13              | -53.33                 | -59.75                  | -69.90                 | 4.88                     | 10.60                       | H                     |
|                                                                                          | 3153.6               | -65.28              | -13              | -52.28                 | -60.75                  | -70.21                 | 5.52                     | 12.60                       | H                     |
|                                                                                          | 1576.8               | -69.60              | -42.15           | -27.45                 | -59.20                  | -72.85                 | 4.00                     | 9.40                        | V                     |
|                                                                                          | 2365.2               | -65.83              | -13              | -52.83                 | -59.24                  | -69.40                 | 4.88                     | 10.60                       | V                     |
|                                                                                          | 3153.6               | -65.21              | -13              | -52.21                 | -60.68                  | -70.14                 | 5.52                     | 12.60                       | V                     |
| LTE Band48<br>Middle                                                                     | 4611.00              | -56.77              | -40              | -16.77                 | -55.81                  | -63.02                 | 6.45                     | 12.70                       | H                     |
|                                                                                          | 6916.50              | -60.93              | -40              | -20.93                 | -65.77                  | -64.33                 | 8.40                     | 11.80                       | H                     |
|                                                                                          | 9222.00              | -56.72              | -40              | -16.72                 | -67.49                  | -59.07                 | 9.65                     | 12.00                       | H                     |
|                                                                                          | 4611.00              | -50.97              | -40              | -10.97                 | -50.39                  | -57.22                 | 6.45                     | 12.70                       | V                     |
|                                                                                          | 6916.50              | -60.70              | -40              | -20.70                 | -66.02                  | -64.10                 | 8.40                     | 11.80                       | V                     |
|                                                                                          | 9222.00              | -57.60              | -40              | -17.60                 | -67.55                  | -59.95                 | 9.65                     | 12.00                       | V                     |
| Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line. |                      |                     |                  |                        |                         |                        |                          |                             |                       |
| Test Result                                                                              |                      |                     |                  |                        | PASS                    |                        |                          |                             |                       |