# **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(S)

CLASSIFICATION : PCS Licensed Transmitter (PCB)

TEST DATE(S) : Dec. 22, 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.

JasonJia

Approved by: Jason Jia





Report No.: FG4D0656J

Sporton International Inc. (ShenZhen)

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People's Republic of China

Sporton International Inc. (ShenZhen)

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# **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG4D0656J	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	
3.1	§2.1046	Conducted Output Power	_	PASS	-	
3.2	§2.1053 §90.691	Field Strength of Spurious  Radiation	< 43+10log <sub>10</sub> (P[Watts])	PASS	Under limit 26.19 dB at 10122.00 MHz	

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

#### **Conformity Assessment Condition:**

- 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.

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# 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					
IMEI Code	Conducted: 357214899990622					
IIMEI Code	Radiation: 866838070003881					
HW Version	RG650V-NA					
SW Version	RG650VNA01AAR01A04G8G					
EUT Stage	Production Unit					

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**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

### 1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard						
Tx Frequency	814 ~ 824 MHz					
Rx Frequency	859 ~ 869 MHz					
SCS	15kHz					
Bandwidth	5MHz / 10MHz / 15MHz / 20MHz					
Antenna Gain	<ant.1>: 3.22 dBi</ant.1>					
Antenna Type	Dipole Antenna					
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM /					
	256QAM					

#### Remark:

- 1. ENDC combinations only test RSE, only the worse modes are shown in the report.
- 2. The EN-DC mode combination could be referred to the product spec.

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#### 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

#### 1.6 Maximum Conducted Power

	5G NR n26	PI/2 BPSK / QPSK	16QAM/64QAM/256QAM		
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Maximum Conducted power (W)		
5	816.5 ~ 821.5	0.1923	0.1545		
10	819	0.1959	0.1552		
15	821.5	0.1954	0.1552		
20	824	0.1945	0.1545		

**Note:** All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.

### 1.7 Testing Site

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

Test Firm	Sporton International Inc	Sporton International Inc. (ShenZhen)							
Test Site Location	Shenzhen, 518055 Peop	·	је, Xili, Nanshan,						
	Sporton Site No.	FCC Designation No.	FCC Test Firm						
Test Site No.	Sporton Site No.	1 CC Designation No.	Registration No.						
	TH01-SZ	CN1256	421272						

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

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#### 1.8 Test Software

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

### 1.9 Applied Standards

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

- 47 CFR 90(S)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 971168 D02 Misc Rev Approv License Devices v02r02

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

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### 2 Test Configuration of Equipment Under Test

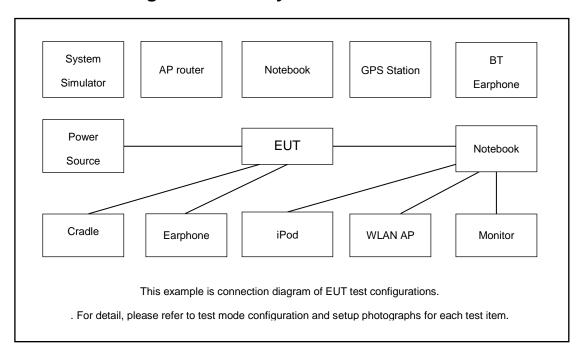
#### 2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission is 30 MHz to 9000 MHz.

Test Items	Band	Bandwidth (MHz)				Modulation				RB#			Test Channel			
rest items	Danu	5	10	15	20	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	Н
Max. Output Power	n26	٧	٧	v	v	v	v	v			٧			v	٧	v
Radiated Spurious Emission	n26		Worst Case v						v	v	v					
Note	2. T 3. 50	he ma G n26 5MHz	e mark "v" means that this configuration is chosen for testing e mark "-" means that this bandwidth is not supported. in n26 transmit frequency for part22 rule is 824MHz-849MHz, for part90 rule is 814MHz-824MHz. ERP over MHz bandwidth complies the ERP limit line of part22 rule, therefore ERP of the partial frequency spectrum sich falls within part 22 also complies.													

### 2.2 Connection Diagram of Test System



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### 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 n26 Channel and Frequency List									
BW [MHz]	Channel/Frequency(MHz)	requency(MHz) Lowest Middle							
20	Channel	164800	-	-					
20	Frequency	824	-	-					
45	Channel	164300	-	-					
15	Frequency	821.5	-	-					
40	Channel	-	163800	-					
10	Frequency	-	819	-					
Б	Channel	163300	163800	164300					
5	Frequency	816.5	819	821.5					

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#### 3 Test Result

### 3.1 Conducted Output Power Measurement

#### 3.1.1 Description of the Conducted Output Power Measurement

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

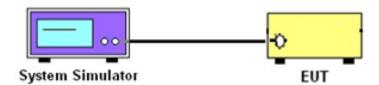
#### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.1.3 Test Procedures

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

#### 3.1.4 Test Setup



#### 3.1.5 Test Result of Conducted Output Power

Please refer to Appendix A.

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### 3.2 Field Strength of Spurious Radiation Measurement

#### 3.2.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

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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+10log<sub>10</sub>(P[Watts]) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

#### 3.2.2 Measuring Instruments

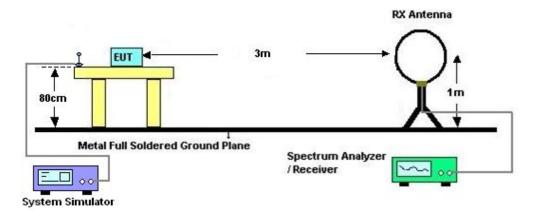
The measuring equipment is listed in the section 4 of this test report.

#### 3.2.3 Test Procedures

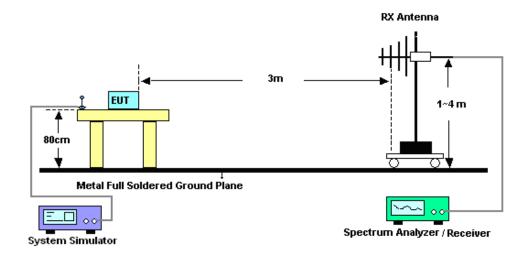
- The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 11. ERP (dBm) = EIRP 2.15
- 12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 13. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)

#### 3.2.4 Test Setup

#### For radiated test from 30MHz



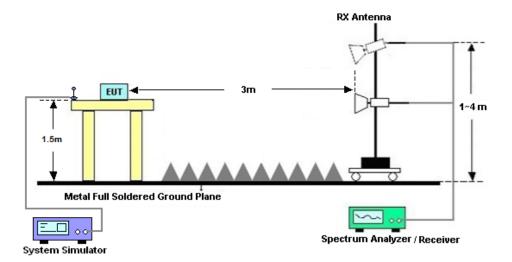
#### For radiated test from 30MHz to 1GHz



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#### For radiated test above 1GHz



### 3.2.5 Test Result of Field Strength of Spurious Radiated

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.

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# 4 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	P02N00518 0	923402	0.4GHz~26.5G Hz	Nov. 08, 2024	Jan. 24, 2025	Nov. 07, 2025	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY5515021 3	10Hz~44GHz	Jul. 03, 2024	Dec. 22, 2024	Jul. 02, 2025	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 29, 2023	Dec. 22, 2024	Dec. 28, 2024	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Oct. 24, 2023	Dec. 22, 2024	Oct. 23, 2025	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Dec. 22, 2024	Jul. 04, 2025	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 03, 2024	Dec. 22, 2024	Jul. 03, 2025	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 09, 2024	Dec. 22, 2024	Apr. 08, 2025	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 18, 2024	Dec. 22, 2024	Oct. 17, 2025	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY5327010 5	0.5GHz~26.5Gh z	Oct. 14, 2024	Dec. 22, 2024	Oct. 13, 2025	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	6160100030 43	N/A	Oct. 18, 2024	Dec. 22, 2024	Oct. 17, 2025	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Dec. 22, 2024	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Dec. 22, 2024	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required

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### 5 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	±1.34 dB

#### <u>Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)</u>

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.47 dB
Communities of 30 /6 (C = 200(y))	

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

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

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

I	<del></del>
Measuring Uncertainty for a Level of	3.31 dB
Confidence of 95% (U = 2Uc(y))	3.31 UB

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

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

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

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# **Appendix A. Test Results of Conducted Test**

Tost Engineer	Khan 7hong	Temperature :	22~23℃
Test Engineer :	Khan Zheng	Relative Humidity :	40~42%

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# **Conducted Output Power (Average power)**

NR Band	scs	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)
26	15	5	163300	816.5	DFT-s-OFDM PI/2 BPSK	1@1	22.7
26	15	5	163300	816.5	DFT-s-OFDM QPSK	1@1	22.8
26	15	5	163300	816.5	DFT-s-OFDM 16 QAM	1@1	21.89
26	15	5	163800	819	DFT-s-OFDM PI/2 BPSK	1@1	22.73
26	15	5	163800	819	DFT-s-OFDM QPSK	1@1	22.82
26	15	5	163800	819	DFT-s-OFDM 16 QAM	1@1	21.84
26	15	5	164300	821.5	DFT-s-OFDM PI/2 BPSK	1@1	22.68
26	15	5	164300	821.5	DFT-s-OFDM QPSK	1@1	22.84
26	15	5	164300	821.5	DFT-s-OFDM 16 QAM	1@1	21.84
26	15	10	163800	819	DFT-s-OFDM PI/2 BPSK	1@1	22.83
26	15	10	163800	819	DFT-s-OFDM QPSK	1@1	22.92
26	15	10	163800	819	DFT-s-OFDM 16 QAM	1@1	21.91
26	15	15	164300	821.5	DFT-s-OFDM PI/2 BPSK	1@1	22.81
26	15	15	164300	821.5	DFT-s-OFDM QPSK	1@1	22.91
26	15	15	164300	821.5	DFT-s-OFDM 16 QAM	1@1	21.91
26	15	20	164800	824	DFT-s-OFDM PI/2 BPSK	1@1	22.8
26	15	20	164800	824	DFT-s-OFDM QPSK	1@1	22.89
26	15	20	164800	824	DFT-s-OFDM 16 QAM	1@1	21.89

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# **Appendix B. Test Results of Radiated Test**

# **Radiated Spurious Emission**

Test Engineer :	PingZhou Liang	Temperature :	22~25°C
rest Engineer.		Relative Humidity :	48~52%

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	5G NR n26 / 20MHz / BPSK / Ant. 1									
Channel	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)	
	1629.6	-66.27	-13	-53.27	-76.15	-69.52	4.00	9.40	Н	
	2444.4	-63.23	-13	-50.23	-77.77	-66.80	4.88	10.60	Н	
Middle	3259.2	-61.61	-13	-48.61	-78.45	-66.54	5.52	12.60	Н	
Middle	1629.6	-66.73	-13	-53.73	-76.51	-69.98	4.00	9.40	V	
	2444.4	-63.41	-13	-50.41	-77.93	-66.98	4.88	10.60	V	
	3259.2	-61.81	-13	-48.81	-78.51	-66.74	5.52	12.60	V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

	EN-DC_7A_n26A / LTE 10MHz + NR 20MHz / LTE QPSK + NR BPSK / ANT7+1								
Channel	Frequency (MHz)	ERP/EIRP (dBm)	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
	1629.6	-66.57	-13	-53.57	-76.45	-69.82	4.00	9.40	Н
	2444.4	-63.60	-13	-50.60	-78.14	-67.17	4.88	10.60	Н
NR n26	3259.2	-61.80	-13	-48.80	-78.64	-66.73	5.52	12.60	Н
Middle	1629.6	-66.48	-13	-53.48	-76.26	-69.73	4.00	9.40	V
	2444.4	-62.99	-13	-49.99	-77.51	-66.56	4.88	10.60	V
	3259.2	-62.19	-13	-49.19	-78.89	-67.12	5.52	12.60	V
	5061.00	-58.22	-25	-33.22	-80.20	-63.78	7.14	12.70	Н
	7591.50	-55.33	-25	-30.33	-81.94	-58.63	8.30	11.60	Н
LTE Band7	10122.00	-51.19	-25	-26.19	-82.57	-52.71	10.48	12.00	Н
Middle	5061.00	-52.52	-25	-27.52	-74.64	-58.08	7.14	12.70	V
	7591.50	-55.71	-25	-30.71	-82.27	-59.01	8.30	11.60	V
	10122.00	-52.29	-25	-27.29	-82.3	-53.81	10.48	12.00	V

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Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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