

RF EXPOSURE REPORT

Applicant	:	Ruijie Networks Co., Ltd.
Address	:	Building 19, Juyuanzhou Industrial Park, No. 618 Jinshan Road, Cangshan District, Fuzhou, Fujian, China
Equipment under Test	:	N300 4G LTE Wireless Router
Model No.	:	RG-EW300T-LA
Trade Mark	:	Ruijie REYEE
FCC ID	:	2AX5J-EW300TLA
Manufacturer	:	Ruijie Networks Co., Ltd.
Address	:	Building 19, Juyuanzhou Industrial Park, No. 618 Jinshan Road, Cangshan District, Fuzhou, Fujian, China
Report No.	:	LS-R25112502-2F03
Issue Date	:	Dec. 16, 2025

LabSure Testing Services (Tianjin) Co., Ltd.



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TEST REPORT DECLARE

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Standard Used: KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is tested and assessed by LabSure Testing Services (Tianjin) Co., Ltd. and in the configuration assessed the equipment complied with the standards specified above. The tested and assessed results are contained in this test report and LabSure Testing Services (Tianjin) Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these assessments.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above standards.

Report No:	LS-R25112502-2F03		
Date of Receipt:	Dec. 01, 2025	Date of Test:	Dec. 01, 2025 ~ Dec. 16, 2025

Prepared By:

Sunny Zhang

Sunny Zhang/Engineer

Approved By:

Aaron Zhang

Aaron Zhang/Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of LabSure Testing Services (Tianjin) Co., Ltd.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Dec. 16, 2025	

1. General information

1.1. Description of Equipment

EUT* Name	: N300 4G LTE Wireless Router
Model Number	: RG-EW300T-LA
EUT function description	: Please reference user manual of this device
Power Supply	: DC 12V by AC/DC adapter
Radio Specification	: WCDMA, LTE, IEEE 802.11b/g/n
Operation frequency	: 2.4G WiFi: 2412MHz-2462MHz WCDMA II : 1852.4MHz ~ 1907.6MHz WCDMA IV : 1712.4MHz ~ 1752.6MHz WCDMA V : 826.4MHz ~ 846.6MHz LTE Band 2: 1850.7MHz ~ 1909.3MHz LTE Band 4: 1710.7MHz ~ 1754.3MHz LTE Band 5: 824.7MHz ~ 848.3MHz LTE Band 7: 2502.5MHz ~ 2567.5MHz LTE Band 66: 1710.7MHz ~ 1779.5MHz
Exposure category	: General population/uncontrolled environment
Device Type	: Mobile Device

1.2. Assess laboratory

LabSure Testing Services (Tianjin) Co., Ltd.

Address: Building D-1, No. 19, Weisi Road, Microelectronics Industrial Park Development Area, Tianjin, China.

Tel: +86-22-58038033, www.lab-sure.com, E-mail: labsure@lab-sure.com

NVLAP (National Voluntary Laboratory Accreditation Program) CODE: 500036-0

CNAS (China National Accreditation Service for Conformity Assessment) CODE: L13402

FCC Designation Number: CN5004; FCC Test Firm Registration Number: 368676

ISED (Innovation, Science and Economic Development Canada) Company Number: 27768

Conformity Assessment Body Identifier: CN0125

VCCI Facility Registration Number: C-20089, T-20093, R-20125, G-20122

2. RF Exposure Evaluation

2.1. Requirement

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density

2.2. Calculation method

$$E(\text{V/m}) = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } S(\text{mW/cm}^2) = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (mW)

G = EUT Antenna numeric gain (numeric)=

d = Separation distance between radiator and human body (m)

The formula can be changed to

We can change the formula to:

$$S = \frac{30 \times P \times G}{377 \times d^2} \quad \text{or, } d = \sqrt{\frac{30 \times P \times G}{377 \times S}}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2 m, as well as the gain of the used antenna, the RF power density can be obtained.

2.3. Estimation result

For 2.4G Wi-Fi

Max. Tune Up power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (linear)	MPE Values (mW/cm ²)	MPE Limit (mW/cm ²)
22.00	158.489	4.72	2.965	0.0935	1

For WCDMA Band 2

Max. Tune Up power (dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE Values (mW/cm ²)	MPE Limit (mW/cm ²)
21	125.893	5.86	3.855	0.0965	1

For WCDMA Band 4

Max. Tune Up power (dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE Values (mW/cm ²)	MPE Limit (mW/cm ²)
21	125.893	6.72	4.699	0.1177	1

For WCDMA Band 5

Max. Tune Up power (dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE Values (mW/cm ²)	MPE Limit (mW/cm ²)
21	125.893	1.31	1.352	0.0339	0.55

For LTE Band 2

Max. Tune Up power (dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE Values (mW/cm ²)	MPE Limit (mW/cm ²)
23	199.526	5.86	3.855	0.1530	1

For LTE Band 4

Max. Tune Up power (dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE Values (mW/cm ²)	MPE Limit (mW/cm ²)
22	158.489	6.72	4.699	0.1482	1

For LTE Band 5

Max. Tune Up power (dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE Values (mW/cm ²)	MPE Limit (mW/cm ²)
23	199.526	1.31	1.352	0.0537	0.55

For LTE Band 7

Max. Tune Up power (dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE Values (mW/cm ²)	MPE Limit (mW/cm ²)
22	158.489	3.32	2.148	0.0677	1

For LTE Band 66

Max. Tune Up power (dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE Values (mW/cm ²)	MPE Limit (mW/cm ²)
22	158.489	6.72	4.699	0.1482	1

The Max. Simultaneous: 2.4G Wi-Fi + LTE Band 2 = $0.0935/1 + 0.1530/1 = 0.2465 < 1$

Note: The estimation distance is 20 cm

Conclusion: The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

END OF REPORT