



RF EXPOSURE REPORT

Applicant	::	Ruijie Networks Co., Ltd.		
Address of Applicant		Building 19, Juyuanzhou Industrial Park, No. 618 Jinshan Road, Cangshan District, Fuzhou, Fujian, China		
Manufacturer	:	Ruijie Networks Co., Ltd.		
Address of Manufacturer	••	Building 19, Juyuanzhou Industrial Park, No. 618 Jinshan Road, Cangshan District, Fuzhou, Fujian, China		
Equipment under Test	1	Wireless Access Point		
Model No.	:	RG-RAP73Pro		
FCC ID	/	2AX5J-RAP73PRO		
Test Standard(s)	:	KDB447498 D01 General RF Exposure Guidance v06		
Report No.	:	DDT-RE24032709-1E05		
Issue Date	•••	2024/06/17		
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808		



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Test Report Declare

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Model No.	:	RG-RAP73Pro		
Manufacturer	-8	Ruijie Networks Co., Ltd.		
Address of Manufacturer :		Building 19, Juyuanzhou Industrial Park, No. 618 Jinshan Road, Cangshan District, Fuzhou, Fujian, China		

Test Standard Used:

KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	DDT-RE24032709-1E05			
Date of Receipt:	2024/04/01	Date of Test:	2024/04/01~2024/06/17	

Prepared By:

Approved By:

Tiger Mo

Tiger Mo/Engineer

Approved By:

Damon Mu

Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
	Initial issue ®	2024/06/17	8
	XOP XOP	*	

1. General Test Information

1.1. Description of EUT

EUT Name	:	Wireless Access Point		
Model Number	:	RG-RAP73Pro		
EUT Function Description		Please reference user manual of this device		
Power Supply	:	DC 54V 0.55A is powered by an external adapter or PoE 54V DC		

Note: This EUT support 2.4 GHz WLAN, 5 GHz WLAN, 6 GHz WLAN.

Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

"⊠" means to be chosen or applicable; "□" means don't to be chosen or not applicable; This note applies to entire report.

1.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
Power Adapter	Xiamen keli Electronics Co., Ltd	KL-D54011-T	INPUT:100-240V~ 50/60Hz 1.5A MAX OUTPUT:DC 54.0V/1.11A 60.0W

1.3. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

2. RF Exposure evaluation for FCC

2.1. Assessment procedure

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

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic FieldStrength (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
1500-100000		10/	1.0	30

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

Calculation method

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

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:

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

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.

2.2. Assess result

Mode	Output power (dBm)	Output power (mW)	tune up power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	MPE Values (mW/cm ²	MPE Limit (mW/cm ²
2.4G WIFI	21.61	144.88	22	3.99	2.51	0.0723	
5G WIFI	18.88	77.27	19	6.98	4.99	0.0767	1
6G WIFI	18.85	76.74	19	6.99	5	0.0764	1

Note: The estimation distance is 20 cm

For multiband simultaneous transmissions: 0.0723+0.0767+0.0764=0.2254<1 Conclusion: MPE evaluation required since transmitter power is below FCC threshold.

3. Photos of the EUT

Please refer to DDT-Q24032709-2E appendix I

-----End Report------