

FCC TEST REPORT FCC ID: 2AQUR-WF37U

Product	:	Wi-Fi Dual Smart Plug	
Model Name	:	WF37U,JBR-PL-WF-003-WT	
Brand	:	N/A	
Report No. : PTC24092		PTC24092304102E-FC02	

Prepared for

NIE-TECH Co., Ltd

Jilian commercial center 9001, Jinxiu road No.2, Changan Town Dongguan City, Guangdong Province, China

Prepared by

Precise Testing & Certification Co., Ltd.

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TEST RESULT CERTIFICATION

Applicant's name NIE-TECH Co., Ltd

Jilian commercial center 9001, Jinxiu road No.2, Changan Town Address

Dongguan City, Guangdong Province, China

Ultra Tech industries Co., Ltd. Manufacture's name

Industrial cluster Non Sao, Tan Dint commune, Lang Giang Address

district, BacGiang

Wi-Fi Dual Smart Plug Product name

WF37U,JBR-PL-WF-003-WT Model name

Test procedure FCC CFR47 Part 1.1307(b)(1)

Test Date Sep. 26, 2024 to Oct. 11, 2024

Date of Issue Oct. 11, 2024

Test Result **PASS**

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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2 Test Summary

Test Items	Test Requirement	Result		
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	15.247 (i)	PASS		
Remark:				
N/A: Not Applicable				



3 General Information

3.1 General Description of E.U.T.

Product Name	:	Wi-Fi Dual Smart Plug		
Model Name	:	WF37U		
Additional model	:	JBR-PL-WF-003-WT		
Specification	:	802.11b/g/n HT20		
Operation Frequency	:	2412-2462MHz for 802.11b/g/ n(HT20)		
Number of Channel	:	11 channels for 802.11b/g/ n(HT20)		
Type of Modulation	:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;		
Antenna installation	:	PCB antenna		
Antenna Gain	:	-0.24 dBi		
Power supply		Input:125V AC 60Hz Output: 125V AC 15A		
Hardware Version	:	5.0		
Software Version	:	1.1.1		



4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : KDB 447498 D01 General RF Exposure Guidance v06

4.1 Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500	01.4	0.100	F/300	6
300-1300			F/300	U
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range	Electric Field	Electric Field Magnetic Field Power Der		Averaging Time
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	27.0	0.070	F/1500	30
300-1300			171300	30
1500-100,000			1.0	30

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



4.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density: Pd (W/m²) = $\frac{E^2}{377}$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

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

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2} \theta \varphi$$

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

4.4 Test Result

Mode	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	•	Max Tune Up Power (mW)	Power Density (mW/cm2)	Limit of Power Density (mW/cm2)	Result
11B(2437)	0.95	14.24	14.24±1	33.419504	0.006291	1	Pass

******THE END REPORT*****