



Report No.: PTC23010503601E-FC02

# FCC TEST REPORT

## FCC ID:2A23GWF39M

Product	:	Wi-Fi Smart Plug Dimmer
Model Name	:	WF39M, N3012
Brand	:	NEW ONE
Report No.	:	PTC23010503601E-FC02
<b>Prepared for</b>		
Dongguan Newone Trading Co.,Ltd		
Jinlian commercial center 1001, Jinxiu road No.273, Changan Town,Dongguan City, GuangDong Prov., Dongguan, China		
<b>Prepared by</b>		
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## TEST RESULT CERTIFICATION

Applicant's name : Dongguan Newone Trading Co.,Ltd  
Address : Jinlian commercial center 1001, Jinxiu road No.273, Changan Town,Dongguan City, Guangdong Prov., Dongguan, China  
Manufacture's name : Dongguan Newone Trading Co.,Ltd  
Address : Jinlian commercial center 1001, Jinxiu road No.273, Changan Town,Dongguan City, Guangdong Prov., Dongguan, China  
Product name : Wi-Fi Smart Plug Dimmer  
Model name : WF39M, N3012  
Test procedure : FCC CFR47 Part 1.1307(b)(1)  
Test Date : Jan. 08, 2022 to Jan. 12, 2023  
Date of Issue : Feb. 01, 2023  
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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Test Engineer:

A handwritten signature in black ink, appearing to read 'Simon Pu'.

Simon Pu / Engineer

Technical Manager:

A handwritten signature in black ink, appearing to read 'Ronnie Liu'.

Ronnie Liu / Manager



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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 Smart Plug Dimmer
Model Name	:	WF39M, N3012
Model difference	:	In addition to the model name is not the same, used to distinguish the sales brand.
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: AC120V 60Hz Output:AC120V 300W
Hardware Version	:	V1
Software Version	:	V1



## 4 RF Exposure

Test Requirement : 15.247 (i)

Evaluation Method : FCC Part 2.1091

### 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			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	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			F/1500	30
1500-100,000			1.0	30

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



#### 4.3 MPE Calculation Method

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

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

$$P_d = \frac{30 \times P \times G}{377 \times d^2}$$

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

Item	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Tune up tolerance (dBm)	Max Tune Up Power (mW)	Power Density (mW/cm <sup>2</sup> )	Limit of Power Density (mW/cm <sup>2</sup> )	Result
2462	0.95	17.16	17.16 ± 1	65.463617	0.016396	1	Pass

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