



Report No.: 86260421004

Date: May 9, 2026

Page 1 of 5

RF TEST REPORT

Applicant : Shenzhen Champon Technology Co., Ltd.

Address: 1A-1004, International Innovation Valley, Dashi 1st Road, Xili, Nanshan, Shenzhen, China

Manufacturer: Shenzhen Champon Technology Co., Ltd.

Address: 1A-1004, International Innovation Valley, Dashi 1st Road, Xili, Nanshan, Shenzhen, China

EUT Name: Smart Plug

Trade mark: Onvis

Model: T20-S4AM

FCC ID: 2ARJH-T20S4AM

Rating: AC120V 60Hz

Sample Received Date: Apr. 21, 2026

Test Date: Apr. 21, 2026~Apr. 30, 2026

Applicable Standards: CFR 47, FCC Part 2.1091

Test Result Pass

Prepared by:

Evan Fang

Approved by:

Bruce Zhang

Evan Fang/Project Engineer

Bruce Zhang/Technical Manager

HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: info@hdt-lab.com

Website: www.hdt-lab.com

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Revision History

Version	Date of Issue	Description
V00	May 9, 2026	Original Version

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1. EUT DESCRIPTION

Product:	Smart Plug
Test Model:	T20-S4AM
Additional Model:	N/A
Rating:	AC120V 60Hz
FCC ID:	2ARJH-T20S4AM
Antenna Type:	PCB Antenna
Antenna Gain:	2.78dBi
Operation Frequency:	2402-2480MHz
Number of Channels:	40
Modulation Type:	GFSK
Hardware Version:	N/A
Software Version:	N/A
Note: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2) Antenna gain was provided by the applicant/ manufacturer, and the applicant/ manufacturer is responsible for its validity. 3) The test results in the report only apply to the tested sample.	

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2. RF EXPOSURE EVALUATION

2.1. Requirement

According to ANSI/IEEE C95.1-1992, the criteria listed in Table as below shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	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				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

2.2. Calculation method

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S: Power density(mW/cm²)

P: power input to antenna (Watt)

G: is the antenna gain relative to an isotropic antenna;

R: is the distance from observation point to the antenna

Note:

1) P (Watts)=(10 ^ (dBm /10))/1000

2) G (Antenna gain in numeric) = 10^ (Antenna gain in dBi /10)

3) π=3.142

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2.3. Tune-up Result

Test mode	Maximum Conducted Output Power(dBm)	Tune-up Power(dBm)
BLE	-3.91	-4±1dBm

2.4. Evaluation Result

Mode	Maximum Tune up Power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	Maximum E.I.R.P. (mW)	Power density (mW/cm ²)	Power density Limit (mW/cm ²)	Result
BLE	-3	2.78	1.8967	0.9506	0.000189	1	PASS

2.5. Conclusion

According to 47 CFR 2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.

End of Report

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