



FCC TEST REPORT

FCC ID: 2ANYD-SHS-2498

On Behalf of

Shenzhen Sanhesheng Electronic CO.,LTD.

DIY AMBIENT TABLE LAMP

Model No.: SHS-2498, SHS-2498B

Prepared for : Shenzhen Sanhesheng Electronic CO.,LTD.
Address : Room 205, Yuxing Technology Park Building, Third Industrial Zone,
Nanchang Community, Xixiang Street, Bao 'an District, Shenzhen

Prepared By : Shenzhen PSI Testing Co., Ltd.
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TEST REPORT DECLARATION

Applicant : Shenzhen Sanhesheng Electronic CO.,LTD.
Address : Room 205, Yuxing Technology Park Building, Third Industrial Zone, Nanchang
Community, Xixiang Street, Bao 'an District, Shenzhen
Manufacturer : Shenzhen Sanhesheng Electronic CO.,LTD.
Address : Room 205, Yuxing Technology Park Building, Third Industrial Zone, Nanchang
Community, Xixiang Street, Bao 'an District, Shenzhen
EUT Description : DIY AMBIENT TABLE LAMP
(A) Model No. : SHS-2498, SHS-2498B
(B) Trademark : N/A

Measurement Standard Used:

FCC CFR 47 PART 1, FCC CFR 47 part1, 1.1307(b), 1.1310

KDB 680106 D01 Wireless Power Transfer v04

The device described above is tested by Shenzhen PSI Testing Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Shenzhen PSI Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness test. Also, this report shows that the EUT is technically compliant with the KDB 680106 D01 requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen PSI Testing Co., Ltd.

Tested by (name + signature).....:

Jensen Wang
Test Engineer

Jensen Wang

Approved by (name + signature).....:

Simple Guan
Project Manager

Simple Guan

Date of issue.....:

October 16, 2024

Revision History

Revision	Issue Date	Revisions	Revised By
REV0	October 16, 2024	Initial released Issue	Jensen Wang



1. Test Result Summary

Requirement	CFR 47 Section	Result
RF EXPOSURE	§1.1307(b)(1), §1.1310& KDB680106	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.
5. Decision rules for the conclusion of this test report: decision by actual test data without considering measurement uncertainty.

2. EUT Description

2.1. Description of Device (EUT)

EUT Name : DIY AMBIENT TABLE LAMP

Model No. : SHS-2498, SHS-2498B

DIFF. : There is no difference except for the appearance, shape and model name. So all the test were performed on the model SHS-2498.

Power supply : Type-C Input: 5V $\overline{=}$ 3A, 9V $\overline{=}$ 2A, 12V $\overline{=}$ 1.5A
Wireless Output: 15W, 10W, 5W

Radio Technology : Wireless power transmission systems

Operation frequency : 115KHz -205KHz

Modulation : ASK

Antenna Type : Coil Antenna

Connector cable loss : 0.5dB

Software version : V1.0

Hardware version : V1.0

Note : Antenna information is provided by applicant.
Testing lab is not responsible for the accuracy of the information.

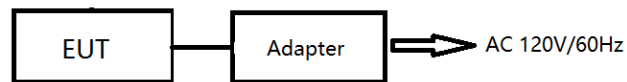
2.2. Accessories of Device (EUT)

Accessories	:	N/A
Manufacturer	:	N/A
Model	:	N/A
specifications	:	N/A

2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification
1	Adapter	Baseus	CCXFK65CC	N/A	N/A
2	Load	Yuebuzhe	YBZ	N/A	N/A

2.4. Block Diagram of connection between EUT and simulators



2.5. Description of Test Modes

Mode	Test mode description
1	Wireless output: 15W
2	Wireless output: 10W
3	Wireless output: 5W
4	No Load

Note: All modes of full load, half load, and no-load have also been tested.

2.6. Test Conditions

Items	Required
Temperature range:	15-35°C
Humidity range:	25-75%
Pressure range:	86-106kPa

2.7. Test Facility

Shenzhen PSI Testing Co., Ltd.

1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

September 13, 2023 File on Federal Communication Commission

Registration Number: 916281

2.8. Measurement Uncertainty

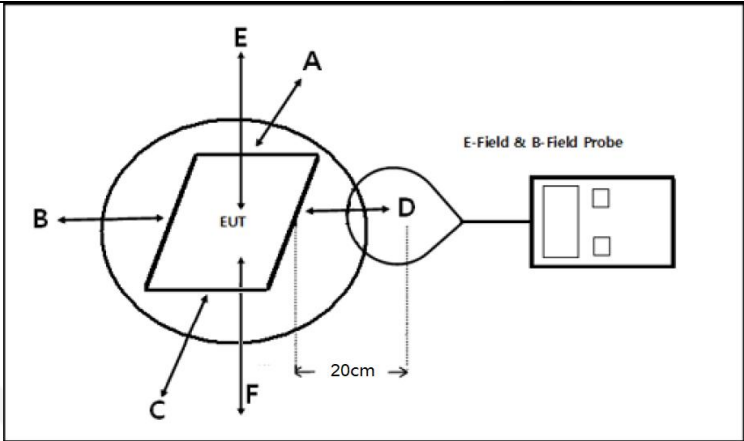
(95% confidence levels, k=2)

Item	Uncertainty
Uncertainty for H-Field	2.39dB
Uncertainty for E-Field	2.45dB
Uncertainty for conducted RF Power	0.65dB
Uncertainty for temperature	0.2°C
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%

3. Test Results and Measurement Data

3.1. RF EXPOSURE TEST

3.1.1. Test Specification

Test Requirement:	FCC Rules and Regulations KDB680106
Test Method:	§1.1307(b)(1) & KDB680106
Limits:	According to §1.1307(b)(1), 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 level in excess of the Commission's guidelines. According to §1.1310 and §2.1091 RF exposure is calculated. According KDB 680106 D01 Wireless Power Transfer v04: RF Exposure Wireless Charging.
Test Setup:	 E to position is 20cm, F is the bottom of the product
Test Mode:	Transmitting Mode (Mobile phone will be charge at zero charge, intermediate charge, and full charge.)
Test Procedure:	1. The RF exposure test was carried out on a non-metallic table top 80cm high in the shielding darkroom. 2. The measurement probe was placed at test distance (20 cm for Top side) which is between the edge of the charger and the geometric centre of probe. 3. The test time is maintained for more than one minute. 4. The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed. 5. The EUT were measured according to the dictates of KDB 680106 D01 Wireless Power Transfer v04.
Test Result:	PASS

3.1.2. Test Instruments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Exposure Level Tester	narda	ELT-400	N-0231	2024.05.06	1 Year
2	Magnetic field probe 100cm2	narda	ELT probe 100cm2	M0675	2023.12.19	1 Year
3	Isotropic Electric Field Probe	narda	EP-601	511WX60706	2023.12.19	1 Year



3.1.3. Test data

For Wireless output: 15W mode:

E-Field Strength at 20 cm for position A, B, C, D, E from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits Test (V/m)
0.115-0.205	7.09	7.39	6.63	6.22	7.10	614

H-Filed Strength at 20 cm for position A, B, C, D, E from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits Test (A/m)
0.115-0.205	0.76	0.49	0.53	0.41	0.32	1.63
uT	0.95	0.61	0.66	0.52	0.40	/

Note: uT to A/m: $A/m = uT/1.25$ **For Wireless output: 10W mode:**

E-Field Strength at 20 cm for position A, B, C, D, E from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits Test (V/m)
0.115-0.205	4.31	4.81	4.15	4.95	4.04	614

H-Filed Strength at 20 cm for position A, B, C, D, E from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits Test (A/m)
0.115-0.205	0.52	0.29	0.38	0.42	0.45	1.63
uT	0.65	0.36	0.47	0.52	0.57	/

Note: uT to A/m: $A/m = uT/1.25$ **For No Load mode:**

E-Field Strength at 20 cm for position A, B, C, D, E from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits Test (V/m)
0.115-0.205	2.64	2.27	2.13	2.39	2.76	614

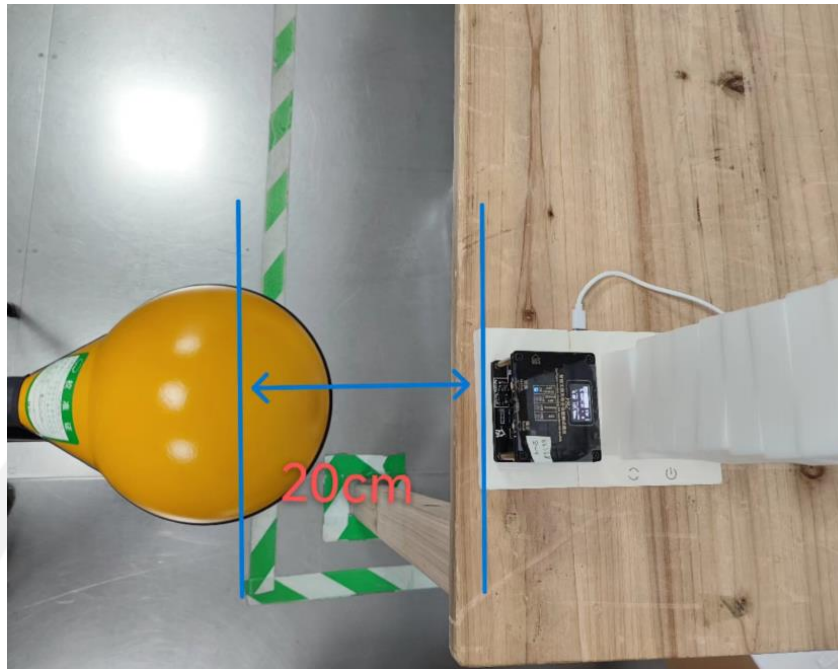
H-Filed Strength at 20 cm for position A, B, C, D, E from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits Test (A/m)
0.115-0.205	0.24	0.17	0.18	0.17	0.18	1.63
uT	0.31	0.02	0.38	0.19	0.27	/

Note: uT to A/m: $A/m = uT/1.25$

4. Photos of test setup

H-Filed



-----END OF REPORT-----