

# RF Exposure Report

Report No.: AGC00288190502FH03

**FCC ID** 2AAZRHSD9027E-10

APPLICATION PURPOSE **Original Equipment** 

PRODUCT DESIGNATION LED DESK LAMP WITH WIRELESS CHARGING

**BRAND NAME** N/A

**MODEL NAME** HSD9027E-10, HSD9027E, HSD9027E-5

CLIENT SHENZHEN HIGHSTAR ELECTRICAL CO.,LTD

**DATE OF ISSUE** Jun. 04, 2019

KDB 680106 D01 RF Exposure Wireless Charging Base STANDARD(S)

App v03

REPORT VERSION

# Attestation of Global Compliance (Shenzhen) Co., Ltd



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#### REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	TO .	Jun. 04, 2019	Valid	Initial Release

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#### 1. VERIFICATION OF CONFORMITY

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We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in KDB 680106 D01.

The results of testing in this report apply to the product/system which was tested only.

Tested By	Erik Yeng	The Companies
	Erik Yang(Yang Jianmin)	Jun. 03, 2019
Reviewed By	Max Zhang	
	Max Zhang(Zhang Yi)	Jun. 04, 2019
Approved By	Forrest Wi	
	Forrest Lei(Lei Yonggang) Authorized Officer	Jun. 04, 2019

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#### 2. GENERAL INFORMATION

#### 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

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Operation Frequency	150.9kHz
Maximum field strength	55.72dBuV/m(PK)@3m
Number of channels	1. The state of th
Antenna Designation	Integrated Antenna (Met 15.203 Antenna requirement)
Hardware Version	000
Software Version	00
Power Supply	DC 12.0V 2.0A by adapter

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#### 3. DESCRIPTION OF TEST MODES

1		Wireless charging Mode(Full load)		
2	O M. Francisco	Wireless charging Mode(half load)		1000000
3		Wireless charging Mode(Null load)	Kin Juliance	® # Global Co

### 4. SYSTEM TEST CONFIGURATION

Item	Equipment	Model No.	ID or Specification	Remark
10	LED DESK LAMP WITH WIRELESS CHARGING	HSD9027E-10	FFDD FFDD	EUT
2	Adapter	TY1200200A1mn	DC 12.0V/2.0A	Accessory
3	Wireless Load	N/A	10W	Accessory

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#### 5. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

#### **TEST EQUIPMENT LIST**

Description	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Broadband Field Meter	Narda Safety Test Solutions GmbH	NBM-550	J-0004	Jun.12, 2018	Jun.11, 2019
Probe FHP	Narda Safety Test Solutions GmbH	EHP-50F	J-0015	Jun.12, 2018	Jun.11, 2019

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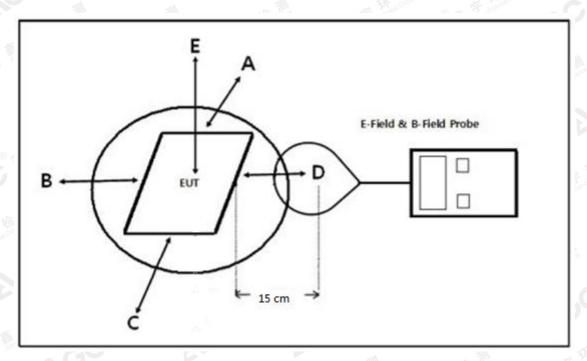


#### 6. RADIO FREQUENCY (RF) EXPOSURE TEST

### 6.1. LIMITS

For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device. Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m.

#### 6.2. TEST SETUP



Note: Position A: Front of EUT; Position B: Left of EUT; Position C: back of EUT; Position D: Right of EUT; Position E: Top of EUT(15 cm measure distance);

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#### **6.3. TEST PROCEDURE**

The EUT was placed on a non-conductive table top and the ancillary equipment (e.g. mobile phone) was placed on the EUT for charging.

Maximum E-field and H-field measurements were tested 20cm from each side of the EUT. For top side the measure distance is 20cm.

Along the side of the EUT to center of E-field probe and H-field probe were positioned at the location to search maximum field strength.

#### **6.4. TEST RESULT**

Test condition: Mode 1

E-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(V/m)
	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	
150.9kHz	0.16	0.16	0.16	0.16	2.45	614

#### H-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(A/m)
	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	
150.9kHz	0.08	0.08	0.08	0.08	0.58	1.63

Test condition: Mode 2
E-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(V/m)
	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	
150.5kHz	0.16	0.16	0.16	0.16	1.82	614

#### H-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(A/m)
	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	
150.5kHz	0.08	0.08	0.08	0.08	0.45	1.63

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Test condition: Mode 3
E-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(V/m)
	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	
136.5kHz	0.16	0.16	0.16	0.16	1.63	614

#### H-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(A/m)
	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	
136.5kHz	0.13	0.13	0.13	0.13	0.35	1.63

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### **APPENDIX A: PHOTOGRAPHS OF TEST SETUP**

Position E



Position A



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#### Position B



Position C



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#### Position D



----END OF REPORT----

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