

## RF Exposure Evaluation Report

**Report Reference No.**.....: **MTEB23070089-H**

**FCC ID**.....: **2BAL3-MAYASM59181**

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**Date of issue**.....: **July 10, 2022**

**Representative Laboratory Name** ..: **Shenzhen Most Technology Service Co., Ltd.**

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**Applicant's name**.....: **HENGYE INTL. DEVELOPMENT CO.,LTD.**

Address .....: ROOM 1011-1016,10 /F, QILIN BLDG, No.1501 NORTH  
TIANTONG RD, NINGBO, CHINA

**Test specification/ Standard** .....: **FCC CFR Title 47 Part 15 Subpart C**

**FCC KDB 680106 D01 RF Exposure Wireless Charging Apps**  
**v03r01**

TRF Originator.....: Shenzhen Most Technology Service Co., Ltd.

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**Test item description** .....: Desk Lamp w/Charger

Trade Mark .....: N/A

Manufacturer .....: SHENZHEN FANGXING TECHNOLOGY CO.,LTD

Model/Type reference.....: SM-59181

Modulation Type .....: FSK

Operation Frequency.....: 110-205KHz

Rating .....: Input: DC 5V(by USB)  
output power:5W

Hardware Version .....: N/A

Software Version .....: N/A

Result.....: **PASS**

**TEST REPORT**

Equipment under Test : Desk Lamp w/Charger

Model /Type : SM-59181

Applicant : HENGYE INTL. DEVELOPMENT CO.,LTD.

Address : ROOM 1011-1016,10 /F, QILIN BLDG,No.1501 NORTH  
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<b>Test Result:</b>	<b>PASS</b>
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

## 1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2023.07.10	Initial Issue	Alisa Luo

## 2. SAR Evaluation

### 2.1 RF Exposure Compliance Requirement

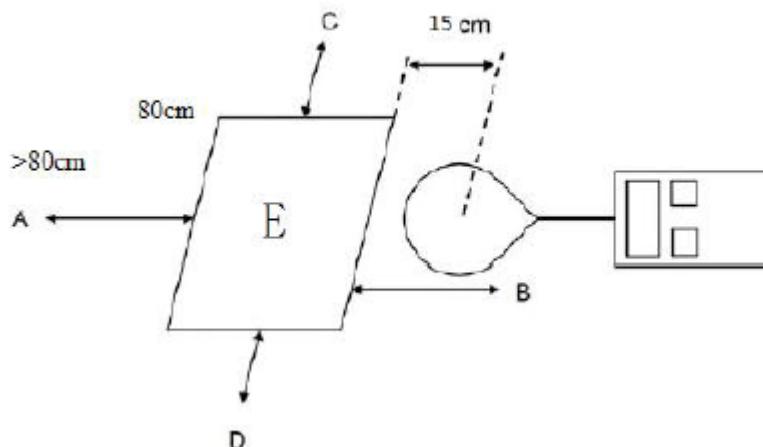
#### 2.1.1 Standard Requirement

According to FCC CFR Title 47 Part 15 Subpart C  
FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01

#### 2.1.2 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 §2.1093 RF exposure is calculated. According KDB680106 D01v03r01: RF Exposure Wireless Charging.

#### Test Setup:



E to position is 20cm.

#### 2.1.3 Test Procedure:

- 1: The RF exposure test was performed on 80cm insulated table in anechoic chamber.
- 2: The measurement probe was placed at test distance (15cm) which is between the edge of the charger and the geometric centre of probe.
- 3: The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- 4: The EUT were measured according to the dictates of KDB 680106D01v03r01.

#### 2.1.4 Test Mode: Charging + Transmitting Mode

### 2.1.5 Test Instruments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Exposure Level Tester	narda	ELT-400	N-0231	2023.3.17	1 Year
2	Magnetic field probe 100cm <sup>2</sup>	narda	ELT probe 100cm <sup>2</sup>	M0675	2023.3.17	1 Year
3	Isotropic Electric Field Probe	narda	EP-601	511WX60706	2023.3.17	1 Year

The EUT does comply with section 5 b) of KDB 680106 D01 RF Exposure Wireless charging App V03r01.

Conditions requirement	Answers
Power transfer frequency is less than 1 MHz.	After measuring the product the transfer frequency is 0.110-0.205MHz
Output power from each primary coil is less than or equal to 15 watts.	After measuring the product the each primary coil power is 5 watts
The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.	The transfer system include signal primary.
Client device is placed directly in contact with the transmitter.	Client device is placed directly in contact with the transmitter.
Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Mobile exposure conditions only.
The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.	After measuring the product the Max H-field Strength is 0.702 A/m Far less than 50% of the MPE limit.

### 2.1.6 Test data

For Full load mode:

H-Field Strength at 15 cm for position A,B,C,D 20cm for position E from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position B	Test Position D	Test Position E	Limit (50%) (A/m)	Limits Test (A/m)
0.110-0.205	0.702	0.624	0.611	0.614	0.645	0.815	1.63

For Half load mode:

H-Field Strength at 15 cm for position A,B,C,D 20cm for position E from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position B	Test Position D	Test Position E	Limit (50%) (A/m)	Limits Test (A/m)
0.110-0.205	0.698	0.622	0.598	0.601	0.622	0.815	1.63

For Null load mode:

H-Field Strength at 15 cm for position A,B,C,D 20cm for position E from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position B	Test Position D	Test Position E	Limit (50%) (A/m)	Limits Test (A/m)
0.110-0.205	0.672	0.597	0.636	0.617	0.613	0.815	1.63

Photos of test setup



.....THE END OF REPORT.....