	<b>TEST REPOF</b>	ЯΤ				
FCC ID	2AQRG-UQ810A	••				
Test Report No:	TCT220209E003					
Date of issue:	Feb. 24, 2022					
Testing laboratory: :	SHENZHEN TONGCE TESTIN	NG LAB				
Testing location/ address:		iqiao 5th Industrial Zone, Fuhai en, Guangdong, 518103, People's				
Applicant's name:	Shenzhen Feihe Electronics C	o., Ltd				
Address:	3/F, Bldg 3, HongFa Innovative Baoan District, Shenzhen, 518	e Park, HuangMaBu Community, 101 China				
Manufacturer's name :	Shenzhen Feihe Electronics Co	o., Ltd				
Address:	3/F, Bldg 3, HongFa Innovative Baoan District, Shenzhen, 518	e Park, HuangMaBu Community, 101 China				
Standard(s):	FCC CFR Title 47 Part 1.1310 KDB 680106 D01 RF Exposure Wireless Charging App v03r01					
Test item description :	LED table lamp					
Trade Mark :	N/A					
Model/Type reference :	U8Q10A, TLP6000					
Rating(s):	Adapter Information: Model No: BI24G-120200-AdU Input: AC 100-240V, 50/60Hz, Output: DC 12V, 2A					
Date of receipt of test item	Feb. 09, 2022					
Date (s) of performance of test	Feb. 09, 2022 - Feb. 24, 2022					
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Tested by (+signature) :	Biews X0					
Tested by (+signature) : Check by (+signature) :		Boyle TCT				

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TCT 通测检测 TESTING CENTRE TECHNOLOGY

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# **1. General Product Information**

### 1.1. EUT description

Test item description:	LED table lamp	
Model/Type reference:	U8Q10A	
Sample Number	TCT220209E002-0101	
Operation Frequency:	128.44kHz	
Modulation Type:	Load modulation	
Antenna Type:	Inductive loop coil Antenna	
Rating(s):	Adapter Information: Model No: BI24G-120200-AdU Input: AC 100-240V, 50/60Hz, 0.8A Output: DC 12V, 2A	3
Test Mode:	Wireless charger output MAX load 10W mode	

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

### 1.2. Model(s) list

No.	Model No.	Tested with
1	U8Q10A	$\boxtimes$
Other models	TLP6000	

Note: U8Q10A is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of U8Q10A can represent the remaining models.

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## 2. Facilities and Accreditations

### 2.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC Registration No.: 10668A-1
  - SHENZHEN TONGCE TESTING LAB
  - CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

## 2.2. Location

#### SHENZHEN TONGCE TESTING LAB

Address: TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China TEL: +86-755-27673339





## 3. Test Results and Measurement Data

#### 3.1. Requirements

According to the item 5.b of KDB 680106 D01v03r01:

Inductive wireless power transfer applications with supporting field strength results and meeting all of the following requirements are not required to submit a KDB inquiry for devices approved using SDoC or a PAG for equipment approved using certification to address RF exposure compliance. However, the responsible party is required to keep a copy of the test report in accordance with KDB 865664 D02. A copy of the test report is to be submitted with the application if the device is approved using certification.

(1) Power transfer frequency is less than 1 MHz.

(2) Output power from each primary coil is less than or equal to 15 watts.

(3)The system may consist of more than one source primary coils, charging one or more clients. If more than on e primary coil is present, the coil pairs may be powered on at the same time.

(4) Client device is placed directly in contact with the transmitter.

(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).(6) 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.

Frequency range (MHz)	Electric field strength (V/m)	lectric field strength (V/m) (A/m)		Averaging time (minutes)
	(A) Limits for Occ	upational/Controlled Ex	posures	
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500	/	1	f/300	6
1500-100,000	/	1	5	6
	(B) Limits for Genera	l Population/Uncontrolle	ed Exposure	
0.3-1.34	614	1.63	*(100)	30

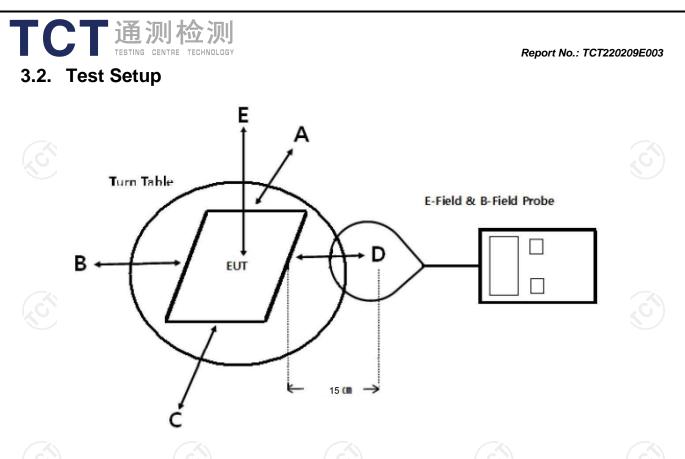
#### Limits For Maximum Permissible Exposure (MPE)

(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 <sup>2</sup> )	30				
30-300	27.5	0.073	0.2	30				
300-1500	1	1	f/1500	30				
1500-100,000	/	1	1.0	30				

F=frequency in MHz

\*=Plane-wave equivalent power density

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 15cm measured from the center of the probe(s) to the edge of the device.

#### 3.3. Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at 15 cm surrounding the device and 20 cm above the top surface of the charger and the geometric center 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.
- The EUT was measured according to the dictates of KDB 680106 D01 v03r01. Remark;

The EUT's test position A, B, C, D and E is valid for the E and H field measurements.

### 3.4. Test Equipment List

Equipment	Equipment Manufacturer Model No.		Calibration Due
Magnetic field meter	NARDA	ELT-400	Mar. 07, 2022
Mobile Phone	SAMSUNG	SM-G9350	
Adapter	SAMSUNG	EP-TA200	7

## 3.5. Test Result

TCT通测检测 TESTING CENTRE TECHNOLOGY

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Frequency Range (KHz)	Operation condition	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limits Test (V/m)	Limits Test (V/m)
128.44	Full load	1.32	1.15	1.72	1.29	1.36	307	614
0								
128.44	Half load	1.04	1.72	1.36	1.25	1.47	307	614
128.44	No load	1.27	1.68	1.10	1.64	1.26	307	614

#### E-Filed Strength 15 cm surrounding the device and 20 cm above the top surface of the EUT (V/m)

H-Filed Strength 15 cm surrounding the device and 20 cm above the top surface of the EUT (A/m)

Frequency Range (KHz)	Operation condition	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limits Test (A/m)	Limits Test ((A/m)
128.44	Full load	0.205	0.189	0.196	0.194	0.187	0.815	1.63
128.44	Half load	0.192	0.184	0.193	0.181	0.180	0.815	1.63
128.44	No load	0.190	0.178	0.185	0.182	0.174	0.815	1.63



#### According to KDB 680106 D01 v03 section 5, b, satisfy the following conditions.

Requirement of KDB 680106 D01r01	Yes/No	Description
Power transfer frequency is less than 1MHz	Yes	The device operate in the frequency range 128.44KHz
Output power from each primary coil is less than or equal to 15 watts	Yes	The maximum output power of the primary coil is 10W.
The system may consist of more than one source primary coils, charging one or more clients. If m ore than one primary coil is present, the coil pai rs may be powered on at the same time.	Yes	The transfer system includes single coil that is able to detect receiver device.
Client device is placed directly in contact with the transmitter.	Yes	Client device is placed directly in contact with the transmitter.
Mobile exposure conditions only(portable exposure conditions are not covered by this exclusion).	Yes	Mobile exposure conditions only
The aggregate H-field strengths at 15 cm surrounding the device and 20cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.	Yes	The EUT H-filed strengths at 15 cm surrounding the device and 20cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

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#### 3.6. Test Set-up Photo





