

	TEST REPO	PRT					
FCC ID:	2AQRG-W10						
Test Report No::	TCT220221E037						
Date of issue::	Mar. 01, 2022						
Testing laboratory:	SHENZHEN TONGCE TES	STING LAB					
Testing location/ address:	_	Fuqiao 5th Industrial Zone, Fuhai ezhen, Guangdong, 518103, People	e's				
Applicant's name::	Shenzhen Feihe Electronics	s Co., Ltd					
Address::	3/F, Bldg 3, HongFa Innov Baoan District, Shenzhen, 5	vative Park, HuangMaBu Commun 518101, China	nity,				
Manufacturer's name:	Shenzhen Feihe Electronics	s Co., Ltd					
Address::	3/F, Bldg 3, HongFa Innovative Park, HuangMaBu Community, Baoan District, Shenzhen, 518101, 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:	W10						
Rating(s):	SWITCHING ADAPTER MODEL NO: GQ18-120150-AU Input: AC 100–240 V, 50/ 60 Hz, 0.5 A Max Output: DC 12.0 V, 1.5 A						
Date of receipt of test item:	Feb. 21, 2022						
Date (s) of performance of test:	Feb. 21, 2022 ~ Mar. 01, 2022						
Tested by (+signature):	Rleo LIU	Reo Chy ONGCE					
Check by (+signature):	Beryl ZHAO	Royl TCT					
Approved by (+signature):	Tomsin	Toms it is as					

General disclaimer:

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1. General Product Information

1.1. EUT description

Test item description:	LED table lamp		(c)
Model/Type reference:	W10		
Sample Number:	TCT220221E036-0101		
Operation Frequency:	124.52kHz – 172.44kHz		
Modulation Type:	Load modulation		
Antenna Type:	Inductive loop coil Antenna		
Rating(s):	SWITCHING ADAPTER MODEL NO: GQ18-120150-AU Input: AC 100–240 V, 50/60 Hz, 0.5 A M Output: DC 12.0 V, 1.5 A	Max	

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



2. General Information

2.1. Test environment and mode

			\			
Item	Normal condition					
Temperature	+2	25°C				
Voltage	AC 120	0 V/60 Hz				
Humidity	5	56%				
Atmospheric Pressure:	1008 mbar					
Test Mode:						
Engineering mode:	Wireless charger ou	utput MAX load	5W mode.			





3. Facilities and Accreditations

3.1. 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.

3.2. 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





4. Test Results and Measurement Data

4.1. 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.

Limits For Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	ectric field strength (V/m) Magnetic field strength (A/m)		Averaging time (minutes)
	(A) Limits for Occ	cupational/Controlled Ex	posures	
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	/	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
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	1	1	f/1500	30
1500-100,000	1	1	1.0	30

F=frequency in MHz

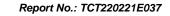
RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

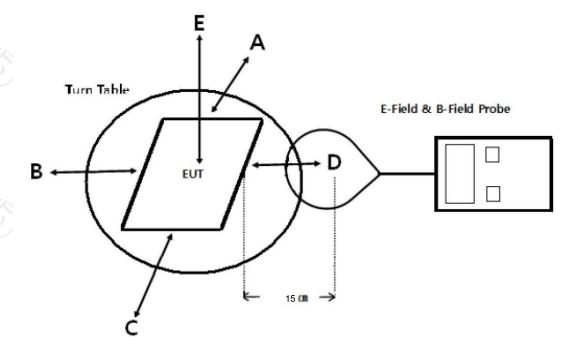
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^{*=}Plane-wave equivalent power density



4.2. Test Setup





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 20cm above the top surface.

4.3. 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.
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v03r01.
- 5) Remark; The EUT's test position A, B, C, D and E is valid for the E and H field measurements.

4.4. Test Equipment List

Equipment	Equipment Manufacturer		Calibration Due
Magnetic field meter	Magnetic field meter NARDA		Mar. 07, 2022
2W coil load			1
Adapter SAMSUNG		EP-TA200	



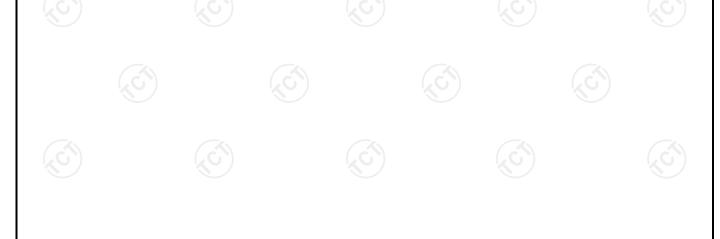
4.5. Test Result

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

	3							(
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)
124.52 – 172.44	Full load	1.23	1.27	1.28	1.16	1.33	307	614
124.52 – 172.44	Half load	1.12	1.04	1.79	1.25	1.24	307	614
124.52 – 172.44	No load	1.19	1.25	1.14	1.32	1.05	307	614

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)
124.52 – 172.44	Full load	0.204	0.181	0.195	0.199	0.187	0.815	1.63
124.52 – 172.44	Half load	0.192	0.186	0.197	0.185	0.182	0.815	1.63
124.52 – 172.44	No load	0.199	0.174	0.184	0.186	0.171	0.815	1.63





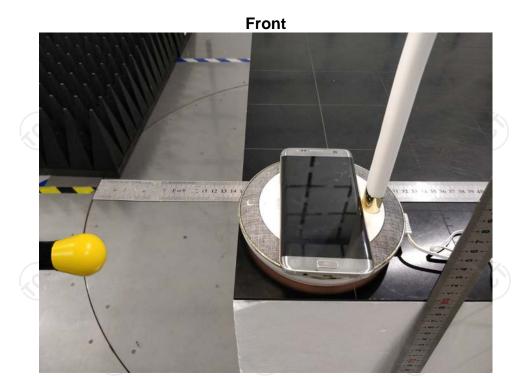
According to KDB 680106 D01 v03r01 section 5, b, satisfy the following conditions.

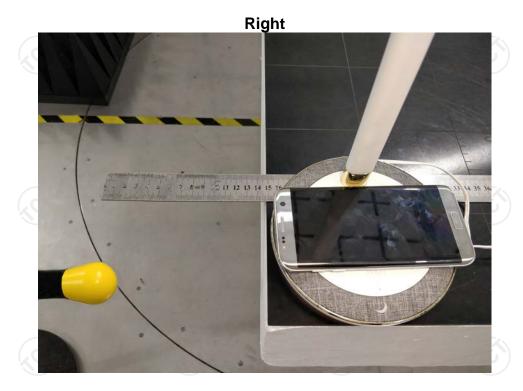
Requirement of KDB 680106 D01	Yes/No	Description
Power transfer frequency is less than 1MHz	Yes	The device operate in the frequency range 124.52kHz – 172.44kHz
Output power from each primary coil is less than or equal to 15 watts	Yes	The maximum output power of the primary coil is 5W.
The system may consist of more than one source primary coils, charging one or more clients. If m ore than one primary coil is present, the coil pairs 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.





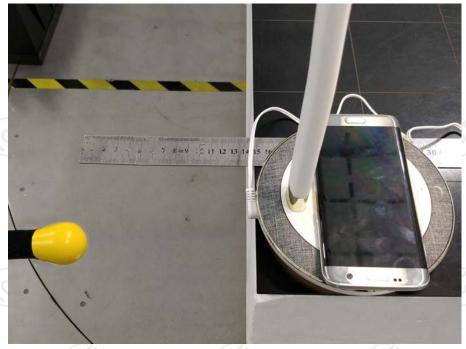
4.6. Test Set-up Photo



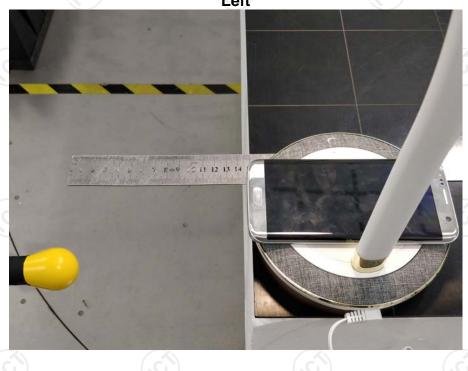






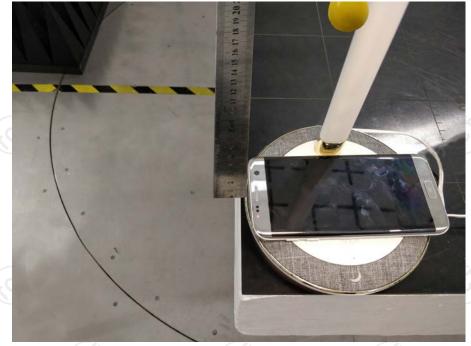


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