Product Name: Wireless charging Table Lamp	**Report No: FCC022022-1021MPE1**
Product Model: VX090090 **T-046, T-041, PRC-H001-01, TL-02,EL-02, T-047, WLM395-TLA-6W-01, WLM395-TLA-6W-02, A01-EC0088 (The test data is gathered from a production sample, provided by the manufacturer. The appearance of others models listed in the report is different from main-test model VX090090, but the circuit and the electronic construction do not change, declared by the manufacturer.)**	**Security Classification: Open**
Version: A0	**Total Page: 11**

TIRT Testing Report

Prepared By:	Checked By:	Approved By:	
Stone Tang	Randy Lv	Daniel Chen	
Stone Tang	Randy LV	Daniel Chen	

RF EXPOSURE REPORT

FCC ID: 2AZRW-YLCWUA

Equipment	:	Wireless charging Table Lamp
Trademark	:	/
Model Number	:	VX090090 (This test) T-046, T-041, PRC-H001-01, TL-02,EL-02, T-047, WLM395-TLA-6W-01, WLM395-TLA-6W-02, A01-EC0088 (The test data is gathered from a production sample, provided by the manufacturer. The appearance of others models listed in the report is different from main-test model VX090090, but the circuit and the electronic construction do not change, declared by the manufacturer.)
Product No.	:	20220310003280
Applicant	:	Dong Guan Ya Li Electric Appliance Co., Ltd.
Address	:	THE FIVE STREET JINQIANLING JITIGANG HUANGJIANG TOWN,DONGGUAN CITY, GUANGDONG 523000 CHINA
Manufacturer	:	Dong Guan Ya Li Electric Appliance Co., Ltd.
Address	:	THE FIVE STREET JINQIANLING JITIGANG HUANGJIANG TOWN,DONGGUAN CITY, GUANGDONG 523000 CHINA
Date of Receipt	:	2022.03.18
Date of Test	:	2022.03.18 ~ 2022.03.25
Issued Date	:	2022.03.30
Test Sample	:	Final Sample
Standard(s)	:	47 CFR PART 1, Subpart I, Section 1.1310; KDB680106 D01 v03r01

- The above equipment has been tested and found compliance with the requirement of the relative standards by TIRT Inc.
- The test result referred exclusively to the presented test model /sample.
- Without written approval of TIRT Inc., the test report shall not be reproduced except in full.

Lab: Beijing TIRT Technology Service Co.,Ltd Shenzhen

Add: 101, 3 # Factory Building, Gongjin Electronics Shatin Community, Kengzi Street, Pingshan District, Shenzhen, China

TEL: +86-0755-27087573

Table of Contents

History of this test report

Original Report Issue Date: 2022.03.30

● No additional attachment

○ Additional attachments were issued following record

Attachment No.	Issue Date	Description

1. General Information

1.1 General Description of EUT

Items	Description
Equipment Name	Wireless charging Table Lamp
Model Number	VX090090 (This test) T-046, T-041, PRC-H001-01, TL-02,EL-02, T-047, WLM395-TLA-6W-01, WLM395-TLA-6W-02, A01-EC0088 (The test data is gathered from a production sample, provided by the manufacturer. The appearance of others models listed in the report is different from main-test model VX090090, but the circuit and the electronic construction do not change, declared by the manufacturer.)
Trademark	/
Power supply	120V~ 60Hz
Power For USB	USB*1(5V 1A), USB-C*1(5V 1A)
Power For Wireless charge	5W
Power For Bulb	MAX 60W(E26)
Power For Outlet	MAX 1080W
Modulation type	ASK
Operating frequency	110kHz~180kHz
Antenna type	Coil Antenna

1.2 Operating Modes of EUT

The EUT was tested under the following modes the final worst mode was marked in boldface and recorded in this report. We have evaluated 1%, 50% and 99% battery charging mode, and the worst mode (99%) is showed in this report.

Test frequency	Test mode	Test voltage
110~130kHz	**Wireless charging + Transmiting**	DC 5V
160~180kHz	Standby + Transmiting	

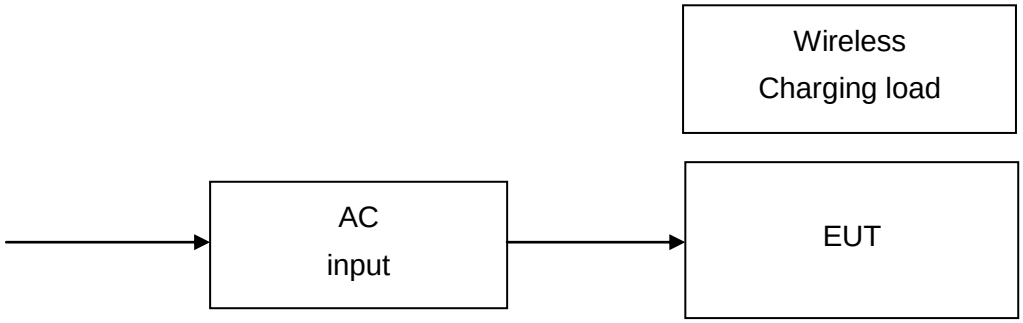
1.3 Test Location

Company:	Beijing TIRT Technology Service Co.,Ltd Shenzhen
Address:	101, 3 # Factory Building, Gongjin Electronics Shatin Community, Kengzi Street, Pingshan District, Shenzhen, China
CNAS Registration Number:	CNAS L14158
A2LA Registration Number:	6049.01
FCC Accredited Lab. Designation Number:	CN1309
FCC Test Firm Registration	825524

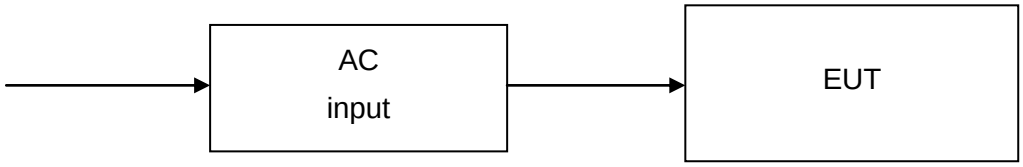
Number:	
Telephone:	+86-0755-27087573

2. Configuration of system under test

Charging Mode with Load:



Standby Mode:



2.1 Description of support units

The EUT has been tested with associated equipment below:

No.	Equipment	Model	Brand	FCC ID	Series No
1	Mobile phone	Phone13	Apple	DoC	/

2.2 Equipments used during test

The antennas provided to the EUT, please refer to the following table:

No.	Equipment	Manufacturer	Type No.	Serial No.	Calibration date	Calibration interval
1	3m Semi-Anechoic Chamber	ZhongShuo	9.2m*6.2 m*6.3m	N/A	2021/05/12	3 year
2	B-field Probe	Narda	100 cm^2	M-1714	2021/11/10	1 year
3	EM Radiation Meter	WG	EMR-30	P-0137/ M-0099	2019/04/24	3 year
4	Probe holder	WG	N/A	N/A	2019/04/24	3 year

3. RF exposure limit

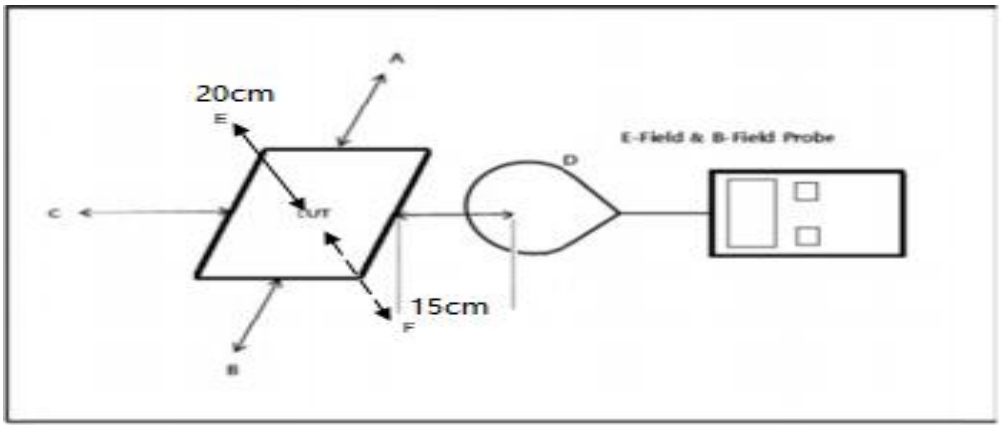
§ 1.1310 The criteria listed in table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency(RF) radiation as specified in § 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of § 2.1093 of this chapter.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f²)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(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/f²)	30
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

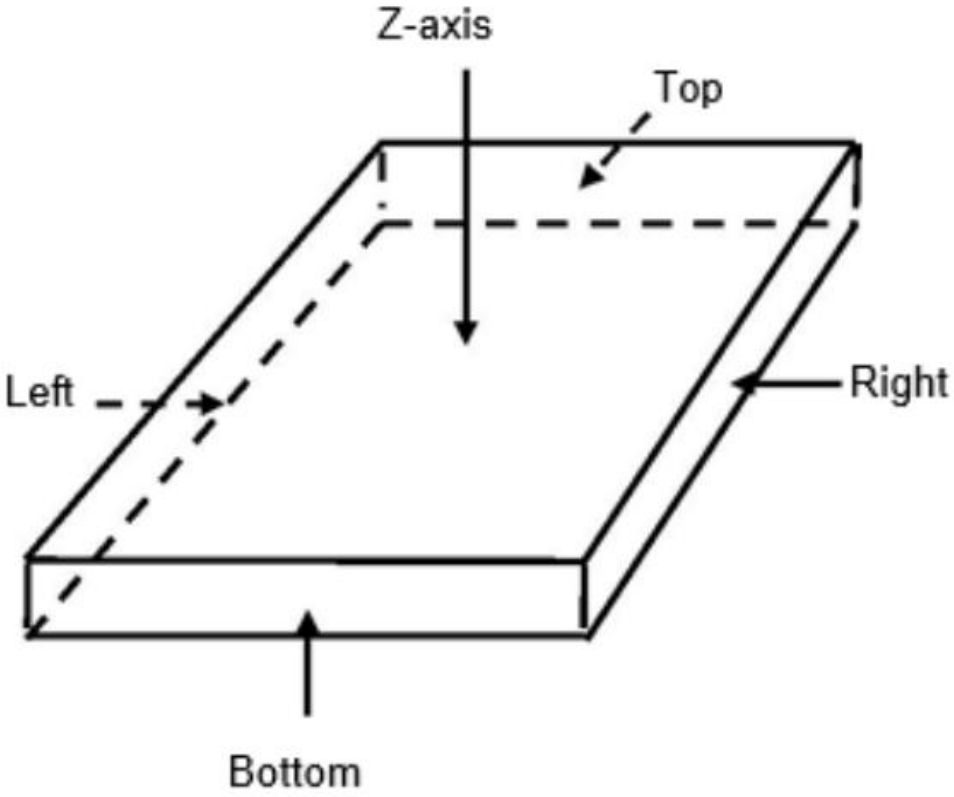
f = frequency in MHz
* = Plane-wave equivalent power density
NOTE 1 TO TABLE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.
NOTE 2 TO TABLE 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

3.1 Test setup for WPC



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 20 cm measured from the center of the probe(s) to the edge of the device.

3.2 Test point description



3.3 Test results

Standby mode:

E-Field Measurement						
Distance	15cm	15cm	20cm	15cm	15cm	15cm
EUT Side	Left	Right	Top	Bottom	Front	Back
Max E-field (V/m)	0.58	0.72	0.83	0.49	0.54	0.60
Limit (V/m)	614	614	614	614	614	614
Pass/Fail	Pass	Pass	Pass	Pass	Pass	Pass

H-Field Measurement						
Distance	15cm	15cm	20cm	15cm	15cm	15cm
EUT Side	Left	Right	Top	Bottom	Front	Back
Max H-field (A/m)	0.057	0.077	0.080	0.076	0.076	0.069
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
Pass/Fail	Pass	Pass	Pass	Pass	Pass	Pass

Charging mode:

E-Field Measurement						
Distance	15cm	15cm	20cm	15cm	15cm	15cm
EUT Side	Left	Right	Top	Bottom	Front	Back
Max E-field (V/m)	2.41	2.52	3.72	3.26	3.19	3.21
Limit (V/m)	614	614	614	614	614	614
Pass/Fail	Pass	Pass	Pass	Pass	Pass	Pass

H-Field Measurement						
Distance	15cm	15cm	20cm	15cm	15cm	15cm
EUT Side	Left	Right	Top	Bottom	Front	Back
Max H-field (A/m)	0.076	0.068	0.086	0.088	0.192	0.183
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
Pass/Fail	Pass	Pass	Pass	Pass	Pass	Pass

Note: Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

4. Equipment approval considerations

Requirements of section 5 of KDB680106 001 RF Exposure Wireless Charging App v03	Yes/No	Description
Power transfer frequency is less than 1 MHz.	Yes	The device operates in the frequency 110kHz~180kHz.
Output power from each primary coil is less than or equal to 15 watts.	Yes	The maximum output power of the primary coil is less than 15W.
The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.	Yes	The transmission system consists of one coils.
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	Product is not a portable device.
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.	Yes	See the test data in section 3.3 of this report.

（END OF REPORT）