

# 1. RF Exposure Test Report

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## 1.1 General Information

### Client Information

Applicant: Guangzhou Shangke Information Technology Co., LTD  
Address of applicant: Room 1205-1212, R&F To-Win Building, No.30 Huaxia Road, Tianhe District, Guangzhou, Guangdong, Province, China

Manufacturer: Guangzhou Shangke Information Technology Co., LTD  
Address of manufacturer: Room 1205-1212, R&F To-Win Building, No.30 Huaxia Road, Tianhe District, Guangzhou, Guangdong, Province, China

### Description of EUT

Product Name: Wireless Power Bank  
Trade Name: TECLAST  
Model No.: T100X  
Adding Model: WA10, WA20, WB10, WB20, WD10, WD20, WE10, WE20, WG10, WG20, WH10, WH20, WJ10, WJ20, WK10, WT20, WK20, WP10, WP20, WR10, WR20, WT10, WV10, WV20, WY10, WY20, WZ10, WZ20, TD01, TD02, TD03, TD04, TD05, TD06, TD07, TD08, TD09, TD10, E10, E11, E20, M10, M20, P10, P20, Z10, Z20, X10, X20, W10, W20, PA10, PA20, PB10, PB20, PC10, PC20, PD10, PD20, PE10, PE20, PF10, PF20, PG10, PG20, PH10, PH20, PI10, PI20, PL10, PL20  
FCC ID: 2ACGT-T100X  
Rated Voltage: USB Input: DC 5V 2A(MAX)  
Frequency Range: 112-205kHz  
Modulation Type: ASK  
Antenna Type: Coil Antenna  
Rated Voltage: DC 5V (Wireless output)  
Rated Current: 1A (Wireless output)  
Rated Power: 5W (Wireless output)

## 1.2 Standard Applicable

According to § 1.1310 system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposure</b>				
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
300-1,500			f/300	6
1,500-100,000			5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
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
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz \* = Plane-wave equivalent power density

## 1.3 Test Conditions

Test Mode	Description	Remark
TM1	Full Load	With mobile phone
Measurement Distance:	10 cm	
Test Standard:	KDB 680106 D01 v03	

## 1.4 Test Result

The following test data shall to demonstrate RF exposure compliance.

*Test Mode: TM1 (with mobile phone)*

Electric Field Emissions			
Test Position	Measure Value (V/m)	Limit(V/m)	30% Limit (V/m)
Top	3.54	614	184.2
Bottom	2.15	614	184.2
Side 1	2.41	614	184.2
Side 2	3.01	614	184.2
Side 3	2.35	614	184.2
Side 4	3.01	614	184.2
Magnetic Field Emissions			
Test Position	Measure Value (A/m)	Limit(A/m)	30% Limit (A/m)
Top	0.0075	1.63	0.489
Bottom	0.0065	1.63	0.489
Side 1	0.0071	1.63	0.489
Side 2	0.0056	1.63	0.489
Side 3	0.0061	1.63	0.489
Side 4	0.0064	1.63	0.489

## 1.5 Test Photos

