

# 1. RF Exposure Test Report

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## 1.1 General Information

### Client Information

Applicant: Shenzhen WK Technology Co., Ltd  
Address of applicant: 1F, A2 Bldg., Mingjun Industrial Park, Huarong Road, Longhua Area, Shenzhen.

Manufacturer: Shenzhen WK Technology Co., Ltd  
Address of manufacturer: 1F, A2 Bldg., Mingjun Industrial Park, Huarong Road, Longhua Area, Shenzhen.

### Description of EUT

Product Name: WK Wireless Charger  
Trade Name: WK  
Model No.: WP-U32,WP-U27,WP-U28,WP-U29,WP-U30,WP-U31,WP-U33,WP-U34,WP-U35,HP-U36,WP-U37,WP-U38,WP-U39,WP-U40,WP-U41,WP-U42,WP-U43,WP-U44,WP-U45,WP-U46,WP-U47,WP-U48,WP-U49,WP-U50,HP-U51,HP-U52,HP-U53,HP-U54  
FCC ID: 2ALJX-WP-U32  
IC: N/A  
Rated Voltage: Input: DC 5V  
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 resistor
TM2	Full Charge	With mobile phone
<b>Measurement Distance:</b>	10 cm	
<b>Test Standard:</b>	KDB 680106 D01 V02	

## 1.4 Test Result

The following test data shall to demonstrate RF exposure compliance.

*Test Mode: TM1 (with resistor)*

<b>Electric Field Emissions</b>			
<b>Test Position</b>	<b>Measure Value (V/m)</b>	<b>Limit(V/m)</b>	<b>30% Limit (V/m)</b>
Top	2.49	614	184.2
Bottom	2.20	614	184.2
Side 1	1.53	614	184.2
Side 2	1.46	614	184.2
Side 3	1.58	614	184.2
Side 4	1.77	614	184.2
<b>Magnetic Field Emissions</b>			
<b>Test Position</b>	<b>Measure Value (A/m)</b>	<b>Limit(A/m)</b>	<b>30% Limit (A/m)</b>
Top	0.0050	1.63	0.489
Bottom	0.0052	1.63	0.489
Side 1	0.0053	1.63	0.489
Side 2	0.0054	1.63	0.489
Side 3	0.0051	1.63	0.489
Side 4	0.0049	1.63	0.489

*Test Mode: TM2 (with mobile phone)*

<b>Electric Field Emissions</b>			
<b>Test Position</b>	<b>Measure Value (V/m)</b>	<b>Limit(V/m)</b>	<b>30% Limit (V/m)</b>
Top	2.15	614	184.2
Bottom	2.24	614	184.2
Side 1	2.18	614	184.2
Side 2	1.96	614	184.2
Side 3	1.82	614	184.2
Side 4	2.10	614	184.2
<b>Magnetic Field Emissions</b>			
<b>Test Position</b>	<b>Measure Value (A/m)</b>	<b>Limit(A/m)</b>	<b>30% Limit (A/m)</b>
Top	0.0050	1.63	0.489
Bottom	0.0058	1.63	0.489
Side 1	0.0048	1.63	0.489
Side 2	0.0051	1.63	0.489
Side 3	0.0054	1.63	0.489
Side 4	0.0053	1.63	0.489

