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ISO/IEC17025 Accredited Lab.

## FCC ID TEST REPORT

for

**WiFi Smart Plug**

**MODEL: KK-SP3**

**Trade Mark: N/A**

**FCC ID: 2ACJ2KK-SP3**

**Test Report Number: FCC1406191MPE**

**Issued Date: June 24, 2014**

Issued for

**KanKunIT Technology Co., Ltd.**

**No.7, Cuibai Road, Electronic Commerce Industrial Zone, Hangzhou  
City, Zhejiang Provence, P. R. China**

Issued By:

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## 1 TEST CERTIFICATION

Product:	WiFi Smart Plug
Model:	KK-SP3
Trade Mark	N/A
Applicant:	<b>KanKuNIT Technology Co., Ltd.</b> <b>No.7, Cuibai Road, Electronic Commerce Industrial Zone, Hangzhou City,</b> <b>Zhejiang Provence, P. R. China</b>
Manufacturer:	<b>KanKuNIT Technology Co., Ltd.</b> <b>No.7, Cuibai Road, Electronic Commerce Industrial Zone, Hangzhou City,</b> <b>Zhejiang Provence, P. R. China</b>
Tested:	April 29, 2014 ~ June 3, 2014
Applicable Standards:	<b>OET Bulletin 65</b> <b>ANSI C63.4:2003</b> <b>FCC PART 2.1091</b>

The above equipment has been tested by SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

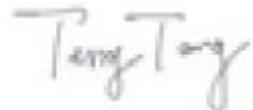
**Tested By:**



**Date:** 2014-06-24

(Brown Lu)

**Check By:**



**Date:** 2013-06-24

(Terry Tang)



**Approved By:**

**Date:** 2014-06-24

(Jack Chung)

## 2 EUT DESCRIPTION

<b>Product</b>	WiFi Smart Plug
<b>Trade Mark</b>	N/A
<b>Model</b>	KK-SP3
<b>EUT Type</b>	<input checked="" type="checkbox"/> Engineering Sample. <input type="checkbox"/> Product Sample, <input type="checkbox"/> Mass Product Sample.
<b>Serial Number</b>	N/A
<b>Antenna Type</b>	Integral Antenna
<b>Antenna Gain</b>	0.5dBi
<b>Temperature Range(Operating)</b>	-10~50°C
<b>Operating Frequency (WIFI)</b>	802.11b/g/n-HT20: 2412MHz - 2462MHz
<b>Type of Modulation</b>	CCK, DQPSK, DBPSK for DSSS BPSK, QPSK, 16QAM and 64QAM for OFDM
<b>Number of Channels</b>	802.11b/g/n-HT20: 11 channels
<b>Data rate</b>	802.11b: 1-11Mbps 802.11g: 6-54Mbps 802.11n-20M: 6.5-72.2Mbps

**Note: N/A stand for no applicable.**

### 3. Maximum permissible exposure

#### 3.1 Applicable Standard

Systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

##### (A) Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	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

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	F/1500	30
1500-100,000	-	-	1.0	30

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

### 3.2 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d}$$

$$\text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

**E** = Electric field (V/m)

**P** = Average RF output power (W)

**G** = EUT Antenna numeric gain (numeric)

**d** = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

From the EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

### 3.3 Calculated Result and Limit

Antenna Type: Integral Antenna

Antenna Gain: 0.5dBi

Max conducted output power: 17.53dBm (refer to Page 40 of Report: FCC1406191)

Antenna Gain (numeric)	Peak Output Power(dBm)	Peak Output Power(Mw)	Power Density(s) (mW/cm <sup>2</sup> )	Limit of Power Density(s) (mW/cm <sup>2</sup> )	Test Result
1.12	17.53	56.62	0.13	1.00	Compliance