



# **RF EXPOSURE REPORT**

On Behalf of

**Yoku Energy (Zhangzhou) Co., Ltd.**

**Wireless Charger**

**Model No.: C1001, YKC1001**

**FCC ID: 2ANQW-C1001**

Prepared for : Yoku Energy (Zhangzhou) Co., Ltd.  
Address : High-Tech Industrial Zone, 363601 Nanjing, Zhangzhou,  
Fujian Province, China

Prepared By : Shenzhen Alpha Product Testing Co., Ltd.  
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Date of Report : June 23, 2017  
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## TEST REPORT DECLARATION

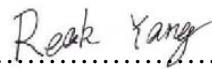
Applicant : Yoku Energy (Zhangzhou) Co., Ltd.  
Manufacturer : Yoku Energy (Zhangzhou) Co., Ltd.  
EUT Description : Wireless Charger  
(A) Model No. : C1001, YKC1001  
(B) Trademark : N/A  
(C) Ratings Supply : DC 5V from USB port  
(D) Test Voltage : DC 5V from USB port with AC 120V/60Hz Input  
(E) Rated Output : DC 5V, 0.5A

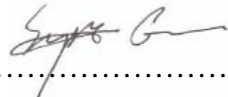
Measurement Standard Used:

### FCC Rules and Regulations KDB680106

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness of test. Also, this report shows that the EUT is technically compliant with the FCC KDB requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....: Reak Yang  
Test Engineer 

Approved by (name + signature).....: Simple Guan  
Project Manager 

Date of issue..... : June 23, 2017

## 1. SUMMARY OF STANDARDS AND RESULTS

### 1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

EMISSION		
Description of Test Item	Standard	Results
RF EXPOSURE	§1.1307(b)(1) & KDB680106	<b>P</b>
Note: 1. P is an abbreviation for Pass. 2. F is an abbreviation for Fail. 3. N/A is an abbreviation for Not Applicable.		

## 2. GENERAL INFORMATION

### 2.1. Description of Device (EUT)

Description	: Wireless Charger
Model Number	: C1001, YKC1001
Diff	: There is no difference between all the models, except the model number, this report performs the model C1001.
Modulation Type	: MSK
Operation Frequency	: 120-205KHz
Antenna type	: Integrated Antenna
Antenna gain	: 0dBi
Test Voltage	: DC 5V from USB port with AC 120V/60Hz Input
Trademark	: N/A
Applicant	: Yoku Energy (Zhangzhou) Co., Ltd.
Address	: High-Tech Industrial Zone, 363601 Nanjing, Zhangzhou, Fujian Province, China
Manufacturer	: Yoku Energy (Zhangzhou) Co., Ltd.
Address	: High-Tech Industrial Zone, 363601 Nanjing, Zhangzhou, Fujian Province, China
Sample Type	: Prototype production

## 2.2. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or DOC
1	Adapter	Wopow	A9-501000	N/A	VOC

## 2.3. Block Diagram of connection between EUT and simulators



Signal Cable Description of the above Support Units					
No.	Port Name	Cable	Length	Shielded (Yes or No)	Detachable (Yes or No)
(a)	N/A	N/A	N/A	N/A	N/A

**EUT: Wireless Charger**

## 2.4. Test mode Description

No.	Test Mode				
1.	Full Load	3	Half Load for shoepod		
2	Half Load for wrist band	4	No Load		

## 2.5. Test Facility

Shenzhen Alpha Product Testing Co., Ltd.

2B/F., Building B, No.99, East Area of Nanchang Second Industrial Zone, Gushu 2nd Road, Bao' an District, Shenzhen, Guangdong, China

March 25, 2015 File on Federal Communication Commission

Registration Number: 203110

July 18, 2014 Certificated by IC

Registration Number: 12135A

## 2.6. Measurement Uncertainty

(95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Conduction emission test	2.71dB
Uncertainty for Radiation Emission test (<1G)	3.90 dB (Distance: 3m Polarize: V)
	3.92 dB (Distance: 3m Polarize: H)
Uncertainty for Radiation Emission test(>1G)	4.26 dB (Distance: 3m Polarize: V)
	4.28 dB (Distance: 3m Polarize: H)

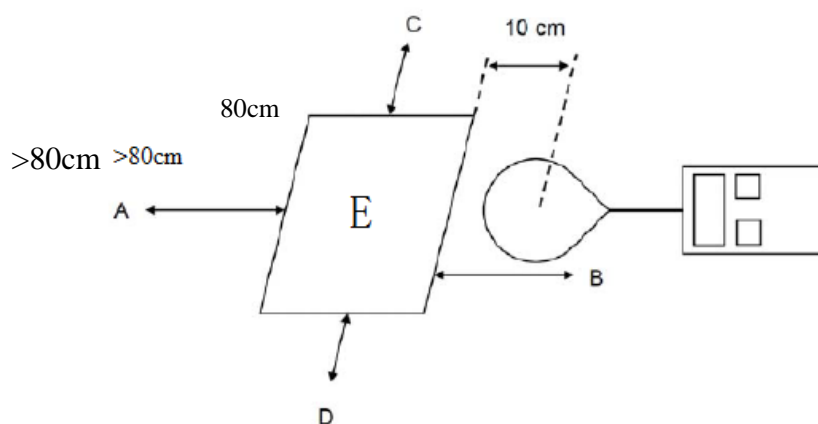
### 3. RF EXPOSURE TEST

#### 3.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Exposure Level Tester	narda	ELT-400	N-0231	2016.09.29	1 Year
2.	Magnetic field probe 100cm2	narda	ELT probe 100cm2	M0675	2016.09.29	1 Year

#### 3.2. Block Diagram of Test Setup

##### Test Setup



#### 3.3. RF EXPOSURE Limits

According to § 1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. According to § 1.1310 and § 2.1093 RF exposure is calculated. According KDB680106 D01v02: RF Exposure Wireless Charging Apps v02.



### 3.4. Operating Condition of EUT

- (1) Setup the EUT as shown as Section 3.2.
- (2) Turn on the power of equipment.
- (3) Let the EUT work in test mode.

### 3.5. Test Procedure

- (1) The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- (2) The measurement probe was placed at test distance (10cm) which is between the edge of the charger and the geometric centre of probe.
- (3) The turn table was rotated 360d degree to search of highest strength.
- (4) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- (5) The EUT were measured according to the dictates of KDB 680106D01v02.

### 3.6. Conducted Disturbance at Mains Terminals Test Results

For Full load mode:

E-Filed Strength at 10 cm from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
0.120-0.205	1.23	1.16	1.24	1.33	1.21	184.2	614

H-Filed Strength at 10 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (V/m)
0.120-0.205	0.21	0.23	0.19	0.17	0.18	0.489	1.63

For Half Load for wrist band mode:

E-Filed Strength at 10 cm from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
0.120-0.205	1.19	1.16	1.22	1.26	1.17	184.2	614

H-Filed Strength at 10 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (V/m)
0.120-0.205	0.19	0.21	0.17	0.17	0.16	0.489	1.63

For Half Load for shoe pod mode:

E-Filed Strength at 10 cm from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
0.120-0.205	1.18	1.16	1.19	1.22	1.14	184.2	614

H-Filed Strength at 10 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (V/m)
0.120-0.205	0.20	0.21	0.18	0.18	0.16	0.489	1.63

For No load mode:

E-Filed Strength at 10 cm from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
0.120-0.205	1.18	1.16	1.17	1.15	1.13	184.2	614

H-Filed Strength at 10 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (V/m)
0.120-0.205	0.19	0.20	0.16	0.17	0.15	0.489	1.63

## 4. PHOTOGRAPH OF TEST SETUP

For Full load mode



For Half Load for wrist band mode



For Half Load for shoepod mode



For No load mode



----END OF REPORT----