

# RF Exposure Report

Report No.: AGC00210190903FH03

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION**: FAST CHARGE WIRELESS CHARGING PAD

**BRAND NAME** : RAVPOWER

MODEL NAME : RP-PC014

**APLICANT**: SUNVALLEYTEK INTERNATIONAL, INC.

**DATE OF ISSUE** : Sep. 19, 2019

STANDARD(S) KDB 680106 D01 RF Exposure Wireless Charging Base

App v03

**REPORT VERSION**: V1.0

# Attestation of Global Compliance (Shenzhen) Co., Ltd

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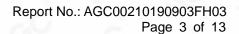


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#### REPORT REVISE RECORD

Report Version Revise Time		Issued Date Valid Version		Notes	
V1.0	1	Sep. 19, 2019	Valid	Initial Release	

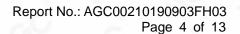






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#### 1. VERIFICATION OF CONFORMITY

Applicant	SUNVALLEYTEK INTERNATIONAL, INC.			
Address	46724 Lakeview Blvd, Fremont, CA 94538			
Manufacturer	Shenzhen NearbyExpress Technology Development Company Limited			
Address	333 Bulong Road, Jialianda Industrial Park, Building 1, Bantian, Longgang District, Shenzhen, China			
Factory	Shenzhen NearbyExpress Technology Development Company Limited			
Address	333 Bulong Road, Jialianda Industrial Park, Building 1, Bantian, Longgang District, Shenzhen, China			
Product Designation	FAST CHARGE WIRELESS CHARGING PAD			
Brand Name	RAVPOWER			
Test Model:	RP-PC014			
Date of test	Sep. 09, 2019 to Sep. 16, 2019			
Deviation	None			
Condition of Test Sample	Normal			
Report Template	AGCRT-US-BR/RF			

#### We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in KDB 680106 D01.

The results of testing in this report apply to the product/system which was tested only.

Prepared By	Erik Jeny	
0 .00	Erik Yang (Project Engineer)	Sep. 16, 2019
Reviewed By	Max Zhang	
CC	Max Zhang (Reviewer)	Sep. 19, 2019
Approved By	Forrest le	
GC CC	Forrest Lei ( Authorized Officer)	Sep. 19, 2019



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# 2. GENERAL INFORMATION

#### 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Attriagor teerminear description of Ee'r ie described de rollowing						
Operation Frequency	123.4kHz					
Maximum field strength	55.48dBuV/m(PK)@3m					
Number of channels	1					
Antenna Designation	Integrated Antenna (Met 15.203 Antenna requirement)					
Hardware Version	PC014_V01					
Software Version	V1.0					
Power Supply	DC 5V 2A or DC 9V 2A by adapter					





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#### 3. DESCRIPTION OF TEST MODES

NO.		TEST MODE DESCRIPTION	
1		Wireless charging Mode(Full load)	
2		Wireless charging Mode(half load)	(6)
3	2.0	Wireless charging Mode(Null load)	

#### Note:

- 1. The mode 1 was the worst case and only the data of the worst case record in this report.
- 2. Both adaptors are tested and reported the worst-case data.

# 4. SYSTEM TEST CONFIGURATION

Item	Equipment	Model No.	ID or Specification	Remark
1	FAST CHARGE WIRELESS CHARGING PAD	RP-PC014	2AFDGRP-PC014	EUT
2	Load	N/A	10W	Accessory
3	Adapter-1	CT131U-AQ18W	DC 5V 2A or DC 9V 2A	Accessory
4	Adapter-2	MDY-08-ES	DC 5V 2A or DC 9V 2A	Accessory
5	USB Cable	N/A	1.0m, Unshielded	Accessory





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# 5. TEST FACILITY

Test Site Attestation of Global Compliance (Shenzhen) Co., Ltd				
Location  1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Comm Fuhai Street, Bao'an District, Shenzhen, Guangdong, China				
Designation Number	CN1259			
FCC Test Firm Registration Number	975832			
A2LA Cert. No.	5054.02			
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA			

#### **TEST EQUIPMENT LIST**

_						
	Description	Manufacturer	Model	S/N	Cal. Date	Cal. Due
9	Broadband Field Meter	Narda Safety Test Solutions GmbH	NBM-550	J-0004	Jun.12, 2019	Jun.11, 2020
	Probe FHP	Narda Safety Test Solutions GmbH	EHP-50F	J-0015	Jun.12, 2019	Jun.11, 2020



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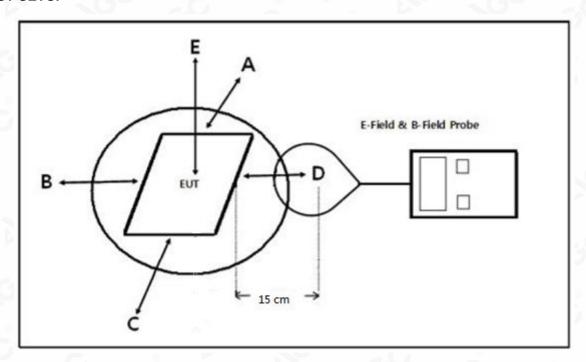


### 6. RADIO FREQUENCY (RF) EXPOSURE TEST

#### 6.1. LIMITS

For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device. Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m.

#### 6.2. TEST SETUP



Note: Position A: Front of EUT; Position B: Left of EUT; Position C: back of EUT; Position D: Right of EUT; Position E: Top of EUT(20 cm measure distance);



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#### **6.3. TEST PROCEDURE**

The EUT was placed on a non-conductive table top and the ancillary equipment (e.g. mobile phone) was placed on the EUT for charging.

Maximum E-field and H-field measurements were tested 15cm from each side of the EUT. For top side the measure distance is 20cm.

Along the side of the EUT to center of E-field probe and H-field probe were positioned at the location to search maximum field strength.

#### **6.4. TEST RESULT**

Test condition: Mode 1 E-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(V/m)
	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	
123.4kHz	0.16	0.16	0.16	0.16	2.42	614

#### H-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(A/m)
	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	
123.4kHz	0.08	0.08	0.08	0.08	0.57	1.63

Test condition: Mode 2 E-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(V/m)
	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	
135.6kHz	0.16	0.16	0.16	0.16	2.34	614

#### H-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(A/m)
	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	
135.6kHz	0.08	0.08	0.08	0.08	0.50	1.63





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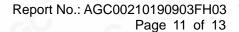
Test condition: Mode 3 E-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(V/m)
	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	
146.0kHz	0.16	0.16	0.16	0.16	2.46	614

# H-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(A/m)
	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	
146.0kHz	0.13	0.13	0.13	0.13	0.43	1.63





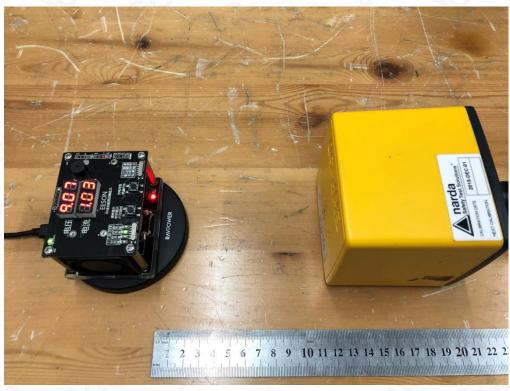


# **APPENDIX A: PHOTOGRAPHS OF TEST SETUP**

Position E



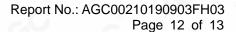
Position A





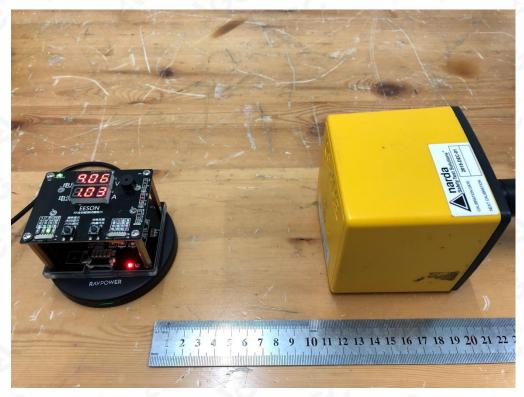
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#### Position B



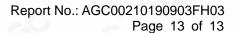
Position C





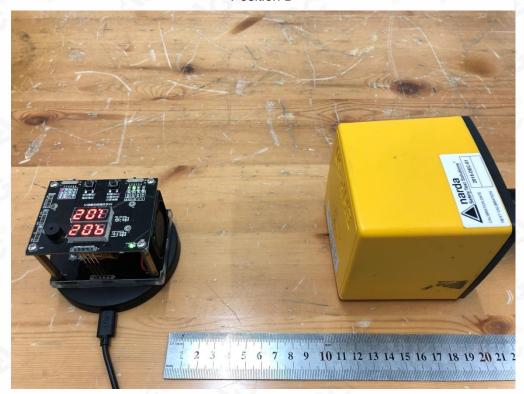
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#### Position D



----END OF REPORT----



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