

RF Exposure Report

Report No.: AGC00737180711FH03

FCC ID : 2ABV4-PWC10
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Wireless Charger
BRAND NAME : POLAROID
MODEL NAME : PWC10
CLIENT : Southern Telecom Inc.
DATE OF ISSUE : Jul. 17, 2018
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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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jul. 17, 2018	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

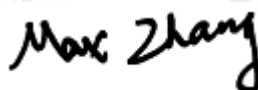
Applicant	Southern Telecom Inc.
Address	5601 1st Ave, 2nd Floor Brooklyn, NY 11220
Manufacturer	Shenzhen Yanhuizhongchuang Technology Co., Ltd.
Address	3 Floor, Building A , TianRun Smart Innovation Science Park, Jiuwei Community, XiXiang Street ,BaoAn District , Shenzhen, Guangdong , China
Product Designation	Wireless Charger
Brand Name	POLAROID
Test Model:	PWC10
Date of test	Jul. 10, 2018 to Jul. 17, 2018
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.

Tested By



Max Zhang(Zhang Yi)

Jul. 17, 2018

Reviewed By



Bart Xie(Xie Xiaobin)

Jul. 17, 2018

Approved By



Forrest Lei(Lei Yonggang)
Authorized Officer

Jul. 17, 2018

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	140.72KHz
Maximum field strength	54.13dBuV/m(Peak)@3m
Number of channels	1
Antenna Designation	Integrated Antenna (Met 15.203 Antenna requirement)
Hardware Version	Q2 V1:8 KC
Software Version	V1.0
Power Supply	DC5V

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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)
3	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.	

4. SYSTEM TEST CONFIGURATION

Item	Equipment	Model No.	ID or Specification	Remark
1	Wireless Charger	PWC10	2ABV4-PWC10	EUT
2	Wireless electronic Load	--	Maximum power 10W	Support
3	Adapter	RP-PC007	DC3.6V-6.5V/3A DC6.5V-9V/2A DC9V-12V/2A	Support

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5. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012
NVLAP LAB CODE	600153-0
Designation Number	CN5028
FCC Test Firm Registration Number	682566
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0

TEST EQUIPMENT LIST

Description	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Broadband Field Meter	Narda Safety Test Solutions GmbH	NBM-550	J-0004	Jun.12, 2018	Jun.11, 2019
Probe FHP	Narda Safety Test Solutions GmbH	EHP-50F	J-0015	Jun.12, 2018	Jun.11, 2019

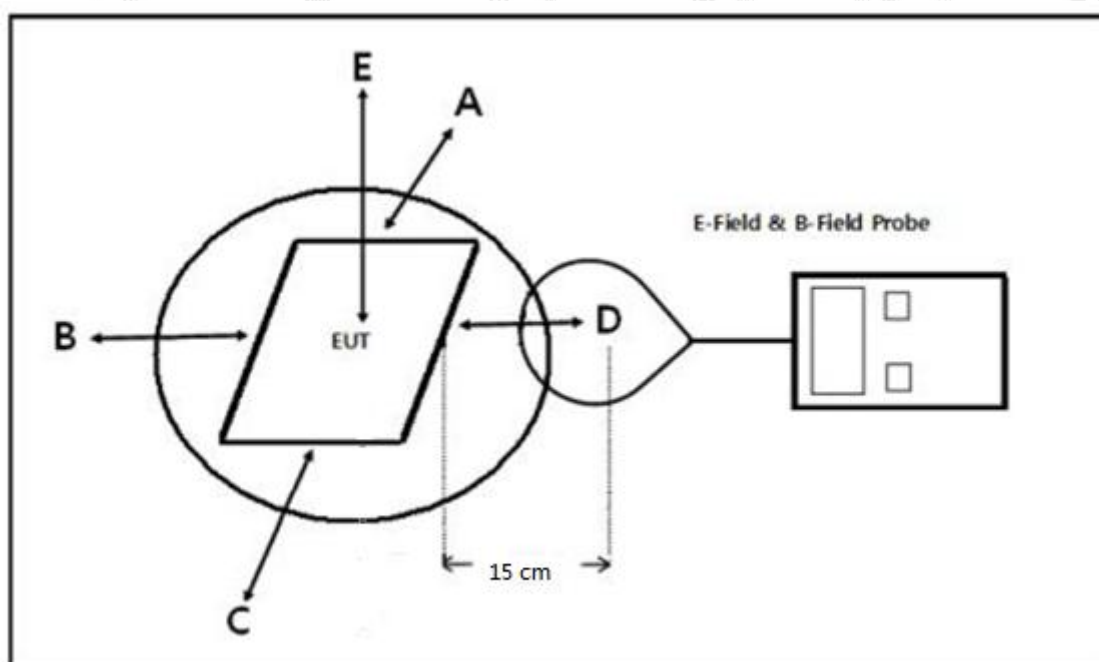
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6. RADIO FREQUENCY (RF) EXPOSURE TEST

6.1. LIMITS

For devices designed for typical desktop applications, such as 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(15 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 15cm.

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 Range	Probe Position A (V/m)	Probe Position B (V/m)	Probe Position C (V/m)	Probe Position D (V/m)	Probe Position E (V/m)	Limit (V/m)
140.72kHz	0.11	0.91	0.11	0.11	0.11	614

H-field strength test result:

Frequency Range	Probe Position A (A/m)	Probe Position B (A/m)	Probe Position C (A/m)	Probe Position D (A/m)	Probe Position E (A/m)	Limit (A/m)
140.72kHz	0.14	0.53	0.14	0.14	0.14	1.63

Test condition: Mode 2

E-field strength test result:

Frequency Range	Probe Position A (V/m)	Probe Position B (V/m)	Probe Position C (V/m)	Probe Position D (V/m)	Probe Position E (V/m)	Limit (V/m)
140.72kHz	0.12	0.74	0.12	0.12	0.12	614

H-field strength test result:

Frequency Range	Probe Position A (A/m)	Probe Position B (A/m)	Probe Position C (A/m)	Probe Position D (A/m)	Probe Position E (A/m)	Limit (A/m)
140.72kHz	0.12	0.32	0.12	0.12	0.12	1.63

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Test condition: Mode 3

E-field strength test result:

Frequency Range	Probe Position A (V/m)	Probe Position B (V/m)	Probe Position C (V/m)	Probe Position D (V/m)	Probe Position E (V/m)	Limit (V/m)
140.72kHz	0.09	0.42	0.09	0.09	0.09	614

H-field strength test result:

Frequency Range	Probe Position A (A/m)	Probe Position B (A/m)	Probe Position C (A/m)	Probe Position D (A/m)	Probe Position E (A/m)	Limit (A/m)
140.72kHz	0.11	0.24	0.11	0.11	0.11	1.63

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Position E



Position A

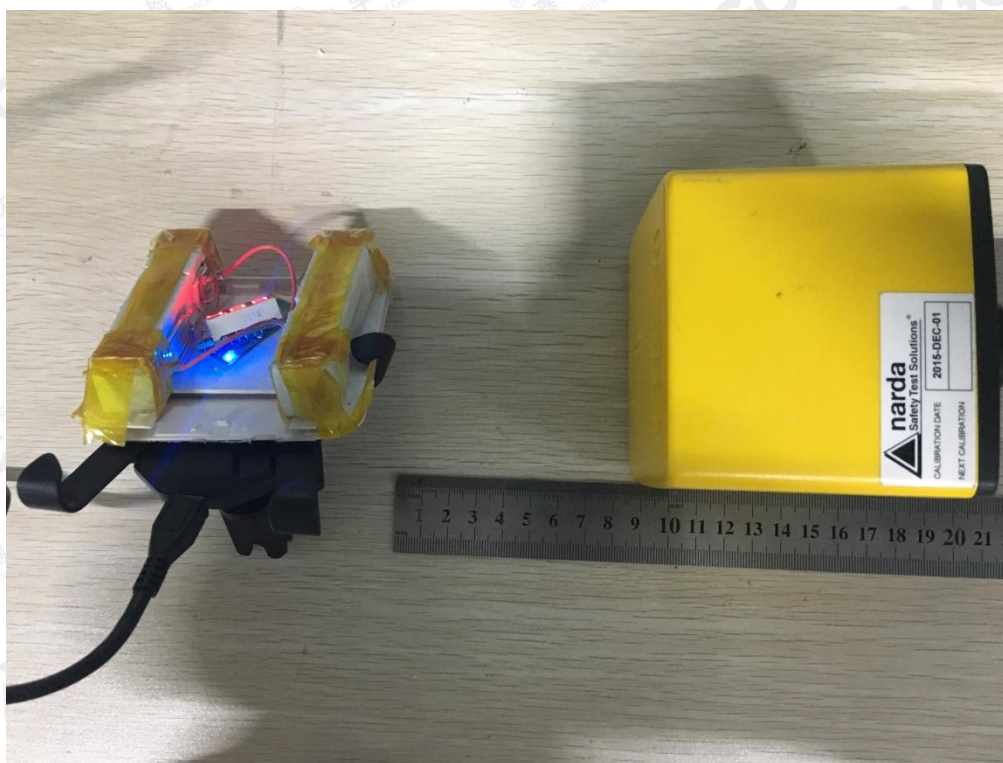


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Position B



Position C



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Position D



----END OF REPORT----

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