

BeiHai Innotech Technology Co., Ltd

TEST REPORT

SCOPE OF WORK

EMC TESTING-CKWL0506

REPORT NUMBER

171211132GZU-002

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TEST REPORT

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Manufacturing Site : Same as applicant

Intertek Report No: 171211132GZU-002

FCC ID: 2A06H-CKWL0506

Test standards

47 CFR PART 1, Subpart I, Section 1.1310
680106 D01 RF Exposure Wireless Charging Apps v02

Sample Description

Product : Wireless charging pad

Model No. : CKWL0506

Electrical Rating : Adaptor (model: S018BYU1200150):
Input:100-240Vac, 50/60Hz, 600mA
Output: 9Vdc, 2A
Wireless charging pad:
Input: 9Vdc, 2A
Output: 10W max

Serial No. : Not Labeled

Date Received : 12 December 2017

Date Test : 12 December 2017-12 March 2018

Conducted

Prepared and Checked By

Approved By:



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1.0 TEST RESULT SUMMARY

Classification of EUT: Class B

Test Item	Standard	Result
EMF	47 CFR PART 1, Subpart I, Section 1.1310	PASS

Remark:

When determining the test results, measurement uncertainty of tests has been considered.

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2.0 General Description

2.1 Product Description

Operating Frequency	110-148KHz
Type of Modulation:	MSK
Antenna Type	Inductive loop coil antenna
Antenna gain:	0 dBi
Power Supply:	Input:100-240Vac, 50/60Hz, 600mA
Power cord:	1.2m x 2 wires unscreened USB cable

2.2 Test Facility

Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD Guangzhou, China

A2LA Certificate Number 0078.10

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch is accredited by A2LA and Listed in FCC website. FCC accredited test labs may perform both Certification testing under Parts 15 and 18 and Declaration of Conformity testing.

2.3 EUT Exercising Software

N/A

2.4 Special Accessories

N/A

2.5 Equipment Modification

Any modifications installed previous to testing by BeiHai Innotech Technology Co., Ltd

will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Guangzhou Branch.

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2.6 Support Equipment List and Description

This product was tested with corresponding support equipment as below:

Support Equipment:

Equipment	Model No.	Rating	Supplier
Adaptor	S018BYU1200150	Input:100-240Vac, 600mA	Client
Mobile phone	SamSung-S7	--	Client

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above evaluated respectively

Pretest mode	Description	
Mode 1	Standby mode (kept transmitting continuously)	
Mode 2	CH: Low	Mobile phone is charging at 1% battery power, 50% and 99% battery power respectively, keep transmitting continuously.
Mode 3	CH: Middle	
Mode 4	CH: High	

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3.0 EMF TEST

3.1 Standard Requirement

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 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 0.1m 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 ²)	Averaging Times E ² , H ² 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
1500-100000	--	--	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 ²)	Averaging Times E ² , H ² 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
1500-100000	--	--	1.0	30

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

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3.2 Test Data

Operating condition: Output 9Vdc, 2A
Input Voltage: 120V/60Hz
Ambient Condition: 24°C, 50%RH

Test distance: 10cm surrounding the device from all simultaneous transmitting coils

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

Test Position	Probe Measure Result (V/m)			30% Limit (V/m)	Limit (V/m)
	Mobile in 1% battery power	Mobile in 50% battery power	Mobile in 99% battery power		
Side 1	60.02401	45.04505	36.03604	184.2	614
Side 2	51.02041	42.04204	33.03303	184.2	614
Side 3	48.01921	39.03904	33.03303	184.2	614
Side 4	54.02161	42.04204	30.03003	184.2	614
Bottom	57.02281	45.04505	36.03604	184.2	614
Top	51.02041	39.03904	33.03303	184.2	614

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

Test Position	Probe Measure Result (A/m)			30% Limit (A/m)	Limit (A/m)
	Mobile in 1% battery power	Mobile in 50% battery power	Mobile in 99% battery power		
Side 1	0.20	0.15	0.12	0.489	1.63
Side 2	0.17	0.14	0.11	0.489	1.63
Side 3	0.16	0.13	0.11	0.489	1.63
Side 4	0.18	0.14	0.10	0.489	1.63
Bottom	0.19	0.15	0.12	0.489	1.63
Top	0.17	0.13	0.11	0.489	1.63

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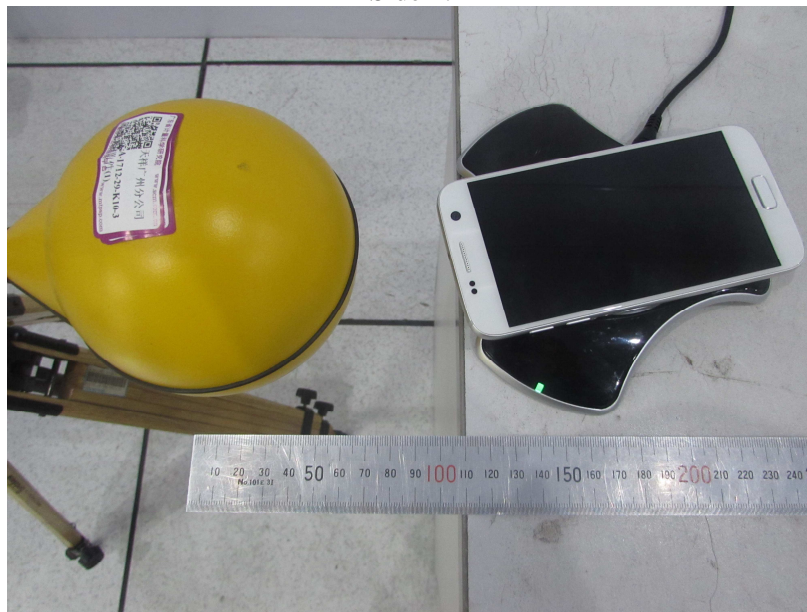
4.0 Test Equipment List

Equip. No.	Equipment	Model	Manufacturer	Cal. date	Due date
EM007-03	Exposure Level Tester	ELT-400	NARDA	2017/12/11	2018/12/11

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5.0 Appendix I - Photos of test setup

Side 1:

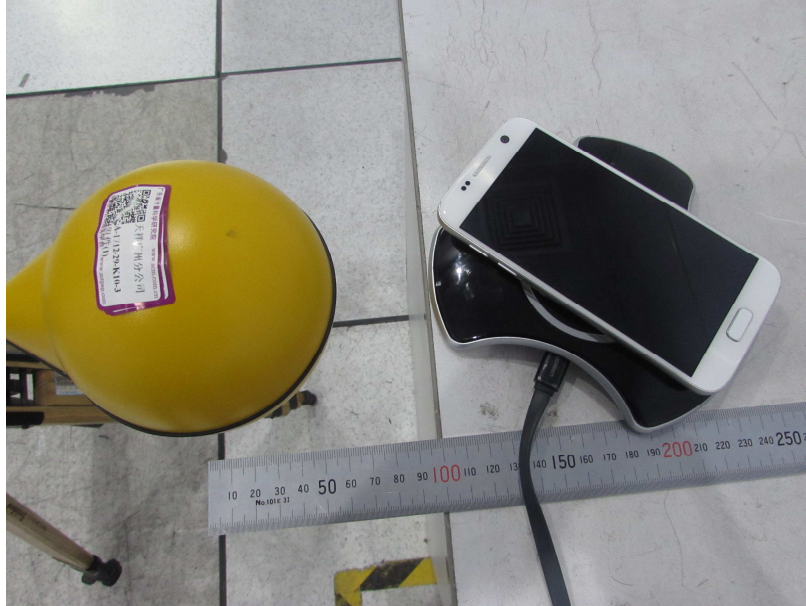


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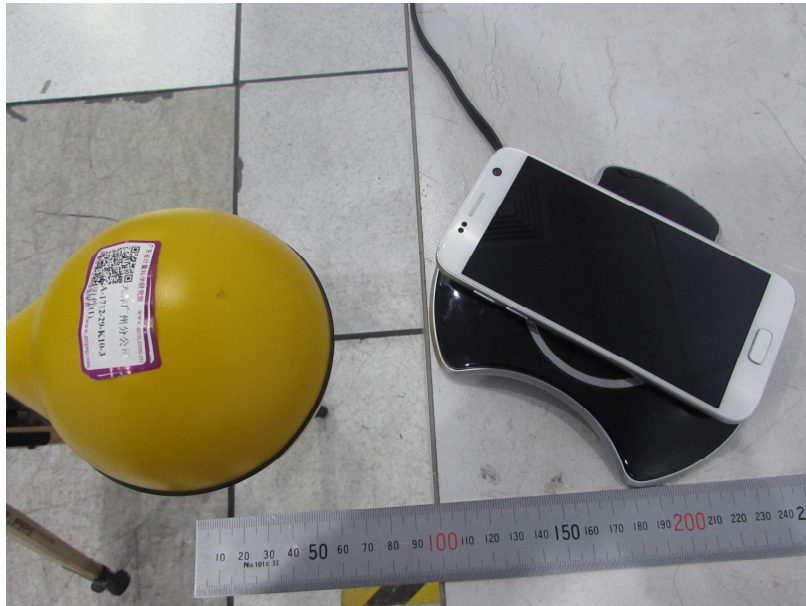


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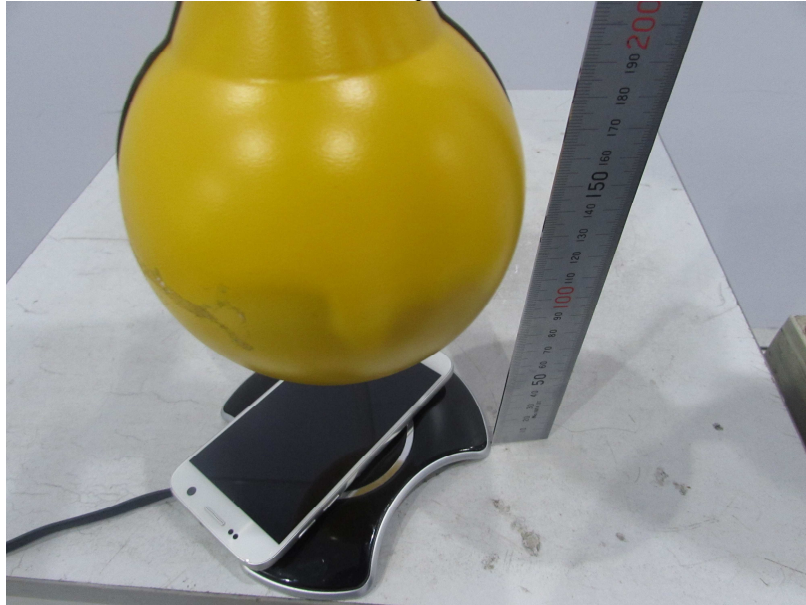


Side 4:



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Top:



*****End of the test report*****