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MPE TEST REPORT

Report No: STS1803105W02

Issued for

SHENZHEN BAIJUNDA ELECTRONIC CO.,LTD

2nd and 5th Floor C Building,KeShangMei Industrial
Park,ChongQing Road,Hi-Tech Area,HePing Village,FuYong
Town,Five,Bao'An district,ShenZhen,China

Product Name:	Quick Wireless Charger
Brand Name:	N/A
Model Name:	WD-213-5100QI
Series Model:	N/A
FCC ID:	2AO8C-WD-213-5100QI
Test Standard:	FCC CFR 47 part 1, 1.1310

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Shenzhen STS Test Services Co., Ltd.
1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road,
Fuyong Street, Bao'an District, Shenzhen, Guangdong, China
TEL: +86-755 3688 6288 FAX: +86-755 3688 6277 E-mail: sts@stsapp.com



**TEST RESULT CERTIFICATION**

Applicant's name : SHENZHEN BAIJUNDA ELECTRONIC CO.,LTD
2nd and 5th Floor C Building,KeShangMei Industrial
Address : Park,ChongQing Road,Hi-Tech Area,HePing Village,FuYong
Town,Five,Bao'An district,ShenZhen,China

Manufacture's Name : SHENZHEN BAIJUNDA ELECTRONIC CO.,LTD
2nd and 5th Floor C Building,KeShangMei Industrial
Address : Park,ChongQing Road,Hi-Tech Area,HePing Village,FuYong
Town,Five,Bao'An district,ShenZhen,China

Product description

Product Name: Quick Wireless Charger
Brand Name: N/A
Model Name.....: WD-213-5100QI
Series Model: N/A

Standards : FCC CFR 47 part 1, 1.1310

Test Procedure : 680106 D01 RF Exposure Wireless Charging Apps v03

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of performance of tests: 09 Mar. 2018 ~25 Apr. 2018

Date of Issue : 26 Apr. 2018

Test Result : **Pass**

Testing Engineer :

(Chris chen)

Technical Manager :

(Sean she)

Authorized Signatory :

(Vita Li)





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**Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	26 Apr. 2018	STS1803105W02	ALL	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03

FCC CFR 47			
Standard Section	Test Item	Judgment	Remark
FCC CFR 47 part1, 1.1310 KDB680106 D01v03	Electric Field Strength (E) (V/m)	PASS	
	Magnetic Field Strength (H) (A/m)	PASS	

1.1 TEST FACTORY

Shenzhen STS Test Services Co., Ltd.

Add. : 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road,
Fuyong Street, Bao'an District, Shenzhen, Guangdong, China

CNAS Registration No.: L7649; FCC Registration No.: 625569

IC Registration No.: 12108A; A2LA Certificate No.: 4338.01;

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	All emissions,radiated(<30M)(9KHz-30MHz)	$\pm 2.45\text{dB}$
2	Temperature	$\pm 0.5^\circ\text{C}$
3	Humidity	$\pm 2\%$



1.3 GENERAL DESCRIPTION OF EUT

Product Name	Quick Wireless Charger
Trade Name	N/A
Model Name	WD-213-5100QI
Series Model	N/A
Model Difference	N/A
Equipemnt Category	Non-ISM frequency
Operating frequency	112.4kHz~121.6kHz
Modulation Type	ASK
Power Adapter	Input: DC5V,2A; DC 9V,1.67A Output: DC5V,1A ; 9V,1A
Hardware version number	N/A
Software version number	N/A

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

Channel List					
Channel	Frequency (KHz)	Channel	Frequency (KHz)	Channel	Frequency (KHz)
00	112.4	01	115.5	02	121.6

3. Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	NOTE
1	N/A	WD-213-5100QI	Coil	N/A	Antenna

The EUT antenna is Coil Antenna. No antenna other than that furnished by the responsible party shall be used with the device.



1.4 EQUIPMENTS LIST FOR ALL TEST ITEMS

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
EMF Meter	NARDA	ELT-400	N-0342	2017.10.23	2018.10.22
EMF probe	NARDA	B-Field Probe	M-0779	2017.10.23	2018.10.22
Broadband field meter NARDA NBM	550	Broadband field meter NARDA NBM	E-1275	2017.10.23	2018.10.22
Broadband field probe NARDA EF	0391	Broadband field probe NARDA EF	D-0894	2017.10.23	2018.10.22



2. MAXIMUM PERMISSIBLE EXPOSURE

2.1 MAXIMUM PERMISSIBLE EXPOSURE

Limit of Maximum Permissible Exposure

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 Time 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
1500-100,000			5	6

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 Time 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
1500-100,000			1	30

Note 1: f = frequency in MHz ; *Plane-wave equivalent power density

Note 2: For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v03

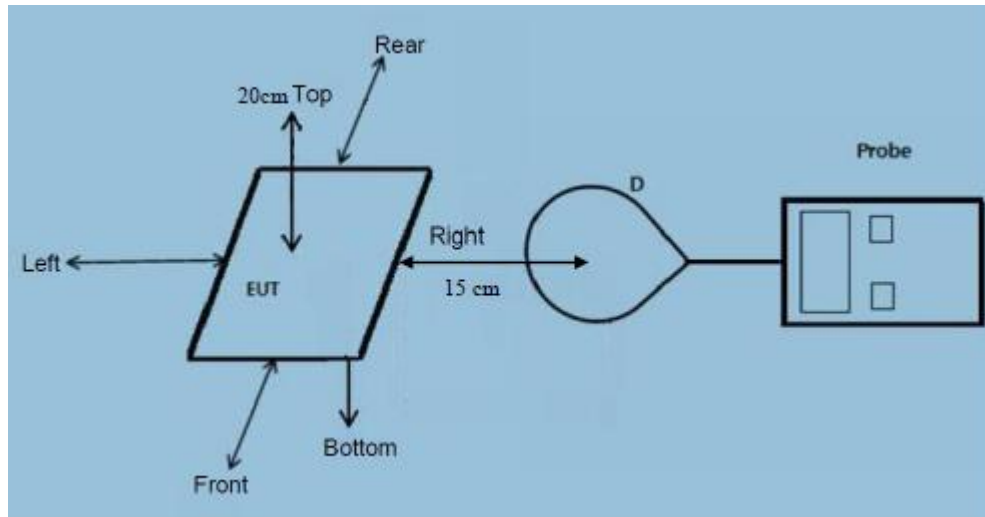
Note 3: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

Note 4: The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit .

2.2 TEST PROCEDURE

- a. For devices designed for typical desktop applications, such as wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 20 cm(Top) and 15cm(Edge). 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 20 cm(Top) and 15cm(Edge) measured from the center of the probe(s) to the edge of the device.

2.3 TEST SETUP



2.4 RESULT OF MAXIMUM PERMISSIBLE EXPOSURE

Maximum Permissible Exposure				
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
< 1% Battery	15cm	Front	0.431	0.105
< 1% Battery	15cm	Rear	0.422	0.117
< 1% Battery	15cm	Left	0.426	0.102
< 1% Battery	15cm	Right	0.433	0.114
< 1% Battery	20cm	Top	0.448	0.120
Limit			614	1.63
Margin Limit (%)			0.073%	7.4%



Maximum Permissible Exposure				
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
50% Battery	15cm	Front	0.437	0.105
50% Battery	15cm	Rear	0.426	0.114
50% Battery	15cm	Left	0.425	0.108
50% Battery	15cm	Right	0.439	0.120
50% Battery	20cm	Top	0.443	0.126
Limit			614	1.63
Margin Limit (%)			0.072%	7.7%

Maximum Permissible Exposure				
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
>99% Battery	15cm	Front	0.421	0.111
>99% Battery	15cm	Rear	0.425	0.115
>99% Battery	15cm	Left	0.424	0.109
>99% Battery	15cm	Right	0.437	0.112
>99% Battery	20cm	Top	0.449	0.119
Limit			614	1.63
Margin Limit (%)			0.073%	7.3%

MPE SETUP PHOTO



*****END OF THE REPORT*****