



## MPE TEST REPORT

Report No.:STS2004163H01

Issued for

Dongguan Xuntao Electronic Co., Ltd.

No.17 Kuiqing Road, Qinghuang Industrial Zone, Qinghuang  
Village, Qingxi Town, Dongguan, China

<b>Product Name:</b>	Magnetic Charging Cable
<b>Brand Name:</b>	amazonbasics
<b>Model Name:</b>	B083KRPBZ8
<b>Series Model:</b>	B083KQ958D, B083KSJ3CG, B083KR71C2
<b>FCC ID:</b>	2ASJIKSJ3CG
<b>Test Standard:</b>	FCC CFR 47 part 1, 1.1310

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**TEST RESULT CERTIFICATION**

Applicant's Name.....: Dongguan Xuntao Electronic Co., Ltd.

Address.....: No.17 Kuiqing Road, Qinghuang Industrial Zone, Qinghuang Village, Qingxi Town, Dongguan, China

Manufacture's Name.....: Dongguan Xuntao Electronic Co., Ltd.

Address.....: No.17 Kuiqing Road, Qinghuang Industrial Zone, Qinghuang Village, Qingxi Town, Dongguan, China

**Product Description**

Product Name .....: Magnetic Charging Cable

Brand Name .....:

Model Name.....: B083KRPBZ8

Series Model.....: B083KQ958D, B083KSJ3CG, B083KR71C2

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/IC requirements. And it is applicable only to the tested sample identified in the report.

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Date of receipt of test item.....: 03 Apr. 2020

Date of performance of tests...: 03 Apr. 2020 ~ 22 Apr. 2020

Date of Issue.....: 23 Apr. 2020

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	23 Apr. 2020	STS2004163H01	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 KDB 680106 D01 RF Exposure Wireless Charging Apps v03	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. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

### 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expended 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	H-filed	$\pm 1.2 \mu T$
2	E-filed	$\pm 16\%$



## 1.3 GENERAL DESCRIPTION OF THE EUT

Product Name	Magnetic Charging Cable
Trade Name	amazonbasics
Model Name	B083KRPBZ8
Series Model	B083KQ958D, B083KSJ3CG, B083KR71C2
Model Difference	Only color & cable length is different (see below model list for more detail)
Equipment Category	Non-ISM frequency
Operating frequency	326.5KHz
Modulation Type	FSK
Antenna Type	Coil Antenna
Antenna number	1
Wireless Charger output power	Max. 5W
Power Rating:	5Vdc, 1.2A

## Model List

Model	B083KRPBZ8	B083KQ958D	B083KSJ3CG	B083KR71C2
Cable length	3 ft (0.9m)	6 ft (1.8m)	3 ft (0.9m)	6 ft (1.8m)
Color	Black		White	
Power	5V---1.2A			

Note: Equipment Approval Considerations

Power transfer frequency is less than 1 MHz.	Yes
Output power from each primary coil is less than or equal to 15 watts.	Yes
The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.	Yes
Client device is placed directly in contact with the transmitter.	Yes
Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Yes
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.	Yes



## 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	2019.10.20	2020.10.19
EMF probe	NARDA	B-Field Probe	M-0779	2019.10.20	2020.10.19
Broadband field meter NARDA NBM	550	Broadband field meter NARDA NBM	E-1275	2019.10.20	2020.10.19
Broadband field probe NARDA EF	0391	Broadband field probe NARDA EF	D-0894	2019.10.20	2020.10.19



## 2. MAXIMUM PERMISSIBLE EXPOSURE

### 2.1 MAXIMUM PERMISSIBLE EXPOSURE

Limit of Maximum Permissible Exposure

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposure</b>				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f <sup>2</sup>	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f <sup>2</sup>	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

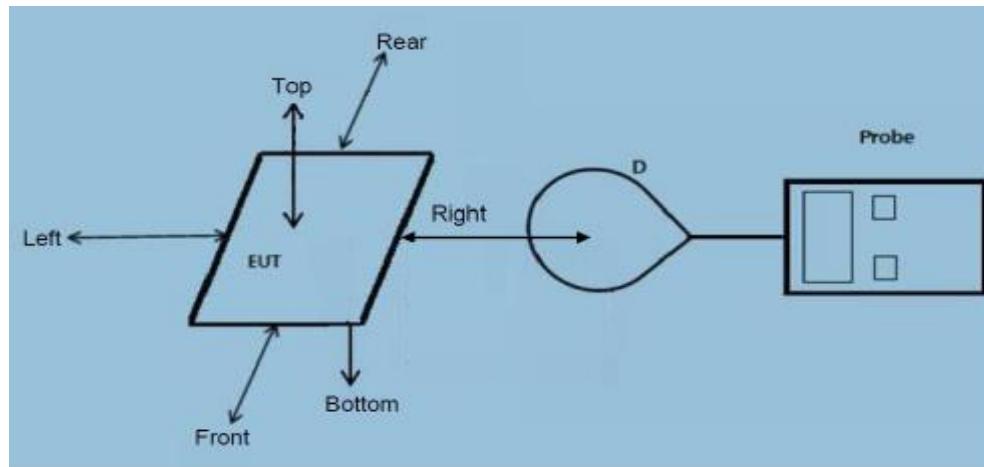
Note: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m.

f = frequency in MHz \* = Plane-wave equivalent power density

### 2.2 TEST PROCEDURE

- For devices designed for typical desktop applications, such as a 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)
10% Battery	15cm	Front	4.534	0.185
10% Battery	15cm	Rear	4.585	0.186
10% Battery	15cm	Left	5.016	0.186
10% Battery	15cm	Right	4.65	0.186
10% Battery	20cm	Top	3.781	0.185
Limit			614	1.63
50% Limit			307	0.815

Maximum Permissible Exposure				
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
50% Battery	15cm	Front	4.53	0.173
50% Battery	15cm	Rear	4.558	0.178
50% Battery	15cm	Left	5.011	0.169
50% Battery	15cm	Right	4.646	0.178
50% Battery	20cm	Top	3.771	0.174
Limit			614	1.63
50% Limit			307	0.815

Maximum Permissible Exposure				
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
>99% Battery	15cm	Front	4.527	0.159
>99% Battery	15cm	Rear	4.543	0.159
>99% Battery	15cm	Left	4.997	0.151
>99% Battery	15cm	Right	4.628	0.17
>99% Battery	20cm	Top	3.682	0.162
Limit			614	1.63
50% Limit			307	0.815