



## **STC Test Report**

**Date:** 2016-05-23

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**No.:** DM123352

**Applicant:**

Dongguan Arun Industrial Co., Ltd.  
No. 18, Xinfeng Street, Changlong Village, Huangjiang Town,  
Dongguan City, Guangdong Province, P.R. China

**Manufacturer:**

Dongguan Arun Industrial Co., Ltd.  
No. 18, Xinfeng Street, Changlong Village, Huangjiang Town,  
Dongguan City, Guangdong Province, P.R. China

**Description of Sample(s):**

Submitted sample(s) said to be  
Product: Wireless Charger  
Brand Name: N/A  
Model No.: WX0002  
Rating: Input: 5V 2A  
Output: 5V 1A  
Frequency Range: 110KHz-205KHz

**Date Sample(s) Received:**

2016-04-26

**Date Tested:**

2016-05-19

**Investigation Requested:**

47 CFR PART 1, Subpart I, Section 1.1310

**Conclusion(s):**

The submitted product COMPLIED with the human exposure to electromagnetic fields (0.3MHz to 100GHz) requirements. The safety tests were performed in accordance with the standards described above and on Section in this Test Report.

**Remark(s)**

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LONG Yun Jian, Along  
Authorized Signatory  
ElectroMagnetic Compatibility Department  
For and on behalf of  
STC (Dongguan) Company Limited



**STC (Dongguan) Company Limited**

68 Fumin Nan Road, Dalang, Dongguan, China. (Zip Code : 523 770)  
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### **Technical Detail(s)**

#### **Investigations Requested**

The assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (0.3 MHz to 100 GHz) .

#### **Test Standards and Results Summary Tables**

<b>Test Standards</b>	
47 CFR PART 1, Subpart I, Section 1.1310	KDB 680106 D01 V02

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## STC Test Report

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### RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310  
Test Date: 2016-05-19

### EUT Operation:

This device has been tested the worst status of full load .  
The test used phone with follow detail:  
Model: SC-05G; Band name: SAMSUNG S6

### Limit:

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 Exposures</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
300-1500	/	/	f/300	6
1500-100,000	/	/	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
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30
F=frequency in MHz *=Plane-wave equivalent power density RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).				

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**Test Result (Load: output voltage=5V, resistor value=6Ω) : PASS**

### Electric Field Emissions

Side	Separation Distance(m)	E-field(V/m)	E-field(V/m)Limit	E-field(V/m)Limit 30%
Side 1	0.1	125.3	614	184.2
Side 2	0.1	129.9	614	184.2
Side 3	0.1	138.9	614	184.2
Side 4	0.1	119.1	614	184.2
Side 5	0.1	161.5	614	184.2
Side 6	0.1	50.5	614	184.2

### Magnetic Field Emissions

Side	Separation Distance(m)	H-field(A/m)	H-field(V/m)Limit	H-field(V/m)Limit 30%
Side 1	0.1	0.333	1.63	0.489
Side 2	0.1	0.346	1.63	0.489
Side 3	0.1	0.370	1.63	0.489
Side 4	0.1	0.317	1.63	0.489
Side 5	0.1	0.430	1.63	0.489
Side 6	0.1	0.134	1.63	0.489

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**Test Result (Phone: The phone has been charge at zero charge.) : PASS**

### Electric Field Emissions

Side	Separation Distance(m)	E-field(V/m)	E-field(V/m)Limit	E-field(V/m)Limit 30%
Side 1	0.1	71.0	614	184.2
Side 2	0.1	63.4	614	184.2
Side 3	0.1	68.0	614	184.2
Side 4	0.1	50.8	614	184.2
Side 5	0.1	77.3	614	184.2
Side 6	0.1	31.6	614	184.2

### Magnetic Field Emissions

Side	Separation Distance(m)	H-field(A/m)	H-field(V/m)Limit	H-field(V/m)Limit 30%
Side 1	0.1	0.189	1.63	0.489
Side 2	0.1	0.169	1.63	0.489
Side 3	0.1	0.181	1.63	0.489
Side 4	0.1	0.135	1.63	0.489
Side 5	0.1	0.206	1.63	0.489
Side 6	0.1	0.084	1.63	0.489

**\*\*\*\*\* End of Test Report \*\*\*\*\***

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