RF Exposure Report

Report No.: AGC01954180101FH03

APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Qi wirelesss charger
BRAND NAME	:	N/A
MODEL NAME	:	MCWCUN0035BL
CLIENT	:	Brightstar Corporation
DATE OF ISSUE	:	Jan. 30, 2018
STANDARD(S)	:	KDB 680106 D01
REPORT VERSION	:	V1.0

*A*ttestation of *G*lobal *C*ompliance (Shenzhen) Co., Ltd

CAUTION:
This report shall not be reproduced except in full without the written permission of the test laboratory and shall not be quoted out of context.

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jan. 30, 2018	Valid	Initial Release

TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY

Applicant	Brightstar Corporation
Address	9725 NW 117th Ave.Miami FL United States 33178
Manufacturer	Sichuan E-power Technology Co., Ltd
Address	B2 Building, Xinxing Industrial Park, #916 Tiangong Street, Tianfu New District, Chengdu, Sichuan, China
Product Designation	Qi wirelesss charger
Brand Name	N/A
Test Model:	MCWCUN0035BL
Date of test	Jan. 25, 2018 to Jan. 30, 2018
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-BR/RF (2013-03-01)

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

Max Zhang(Zhang Yi) Jan. 30, 2018

Reviewed by Bart Xie

Bart Xie(Xie Xiaobin) Jan. 30, 2018

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	127.5kHz
Maximum field strength	53.25dBuV/m(AV)@3m
Modulation	FSK
Number of channels	1
Antenna Gain	0dBi
Antenna Designation	Integrated Antenna (Met 15.203 Antenna requirement)
Hardware Version	V2.0.11
Software Version	BR00_V1.00
Power Supply	DC 12V by adapter

3. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Wireless charging Mode(1% battery)
2	Wireless charging Mode(50% battery)
3	Wireless charging Mode(99% battery)

Note:
1. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

4. SYSTEM TEST CONFIGURATION

Item	Equipment	Model No.	ID or Specification	Remark
1	Qi wirelesss charger	MCWCUN0035BL	WVB-MCWCUN0035BL	EUT
2	Adapter	ADS-18FSR-12	DC 12V/1.5A	Marketed
3	Smart phone	FX200	N/A	Support

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
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0

TEST EQUIPMENT LIST

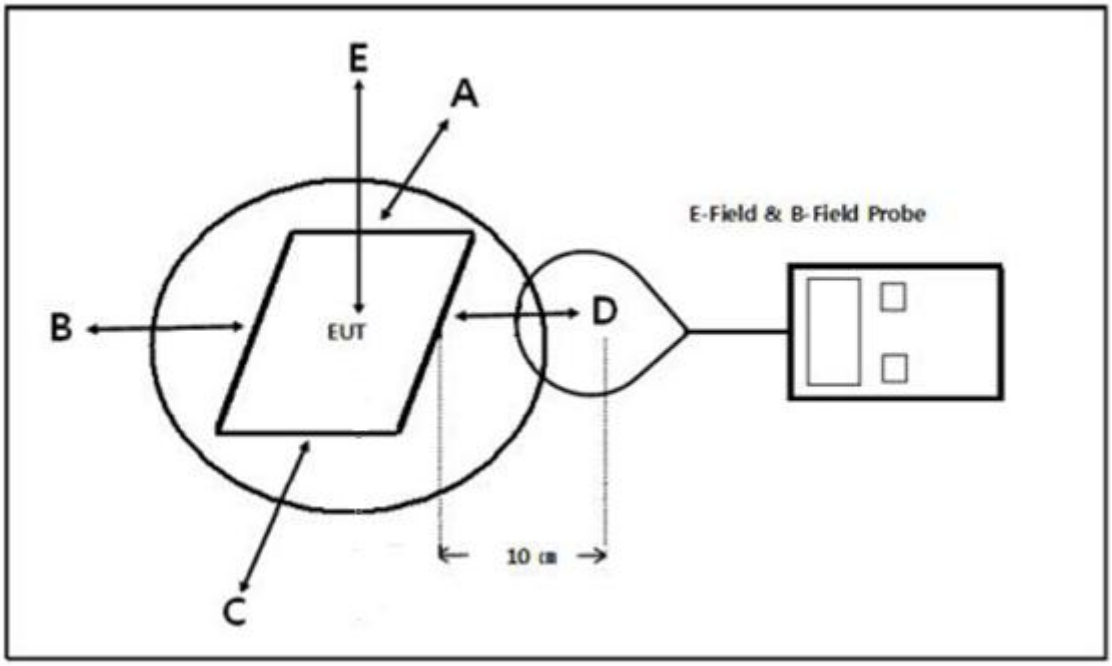
Description	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Broadband Field Meter	Narda Safety Test Solutions GmbH	NBM-550	J-0004	June 15, 2017	June 14, 2018
Probe FHP	Narda Safety Test Solutions GmbH	FHP-50D	J-0015	June 15, 2017	June 14, 2018

6. RADIO FREQUENCY(RF) EXPOSURE TEST

6.1. LIMITS

For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 10 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 10 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;

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 10cm from each side of the EUT.

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)
110kHz-205kHz	0.24	0.18	0.18	0.45	2.75	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)
110kHz-205kHz	0.07	0.07	0.07	0.07	0.36	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)
110kHz-205kHz	0.20	0.16	0.16	0.24	2.64	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)
110kHz-205kHz	0.07	0.07	0.07	0.07	0.31	1.63

Test condition: Mode 3

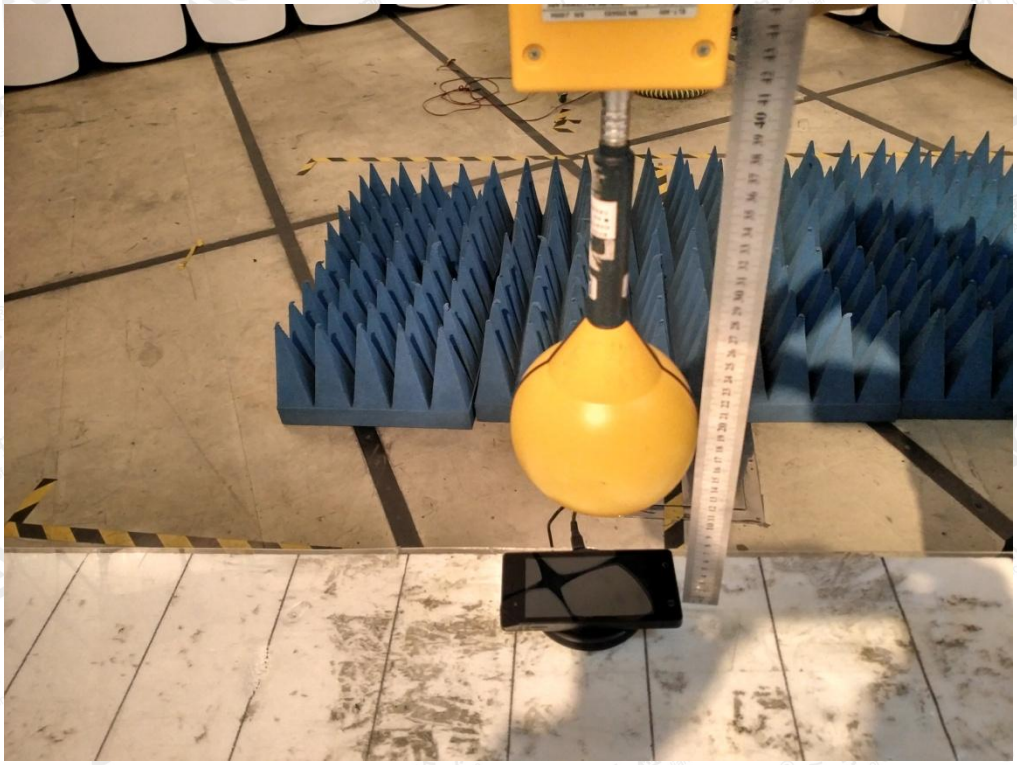
E-field strength test result:

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)
110kHz-205kHz	0.18	0.18	0.17	0.22	2.84	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)
110kHz-205kHz	0.07	0.07	0.07	0.07	0.39	1.63

APPENDIX A: PHOTOGRAPHS OF TEST SETUP



----END OF REPORT----