

RF Exposure Report

Report No.: AGC03946190501FH03

FCC ID : 2AG5APOWERWAVE

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: Powerwave-Wireless Charging

BRAND NAME : BrandCharger

MODEL NAME : Powerwave

CLIENT : BrandCharger Ltd

DATE OF ISSUE : June 06, 2019

STANDARD(S) : KDB 680106 D01 RF Exposure Wireless Charging Base

App v03

REPORT VERSION: V1.0

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REPORT REVISE RECORD

	Report Version Revise Time		Issued Date Valid Version		Notes	
1	V1.0	1	June 06, 2019	Valid	Initial Release	



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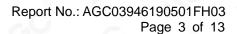
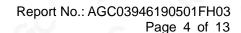




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1. VERIFICATION OF CONFORMITY

Applicant	BrandCharger Ltd				
Address	Flat H, 7/F, Mai Luen Industrial Building, 23 Kung Yip Street, Kwai Chung, Hong Kong				
Manufacturer	Shen Zhen Loowoko Technology Limited				
Address	6F,E building ,Jin Bao Bao Industry Dis, No 2 North Part, Shang Xue Industry City, Long Gang , shenzhen, guangdong, China				
Factory	Shen Zhen Loowoko Technology Limited				
Address	6F,E building ,Jin Bao Bao Industry Dis, No 2 North Part, Shang Xue Industry City, Long Gang , shenzhen, guangdong, China				
Product Designation	Powerwave-Wireless Charging				
Brand Name	N/A				
Test Model:	Powerwave				
Date of test	May 30, 2019~June 06, 2019				
Deviation	None				
Condition of Test Sample	Normal				
Report Template	AGCRT-US-BR/RF				

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	Jonjon Hu	2019
	Donjon Huang(Huang dongyang)	June 06, 2019
Reviewed By	Max Zhan	y
60	Max Zhang(Zhang Yi)	June 06, 2019
Approved By	Forrest 18	-
-0	Forrest Lei(Lei Yonggang) Authorized Officer	June 06, 2019



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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

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Operation Frequency	161.1kHz
Maximum field strength	55.76dBuV/m(PK)@3m
Number of channels	1
Antenna Designation	Integrated Antenna (Met 15.203 Antenna requirement)
Hardware Version	LWC-F28-10W-C0
Software Version	V1.0
Power Supply	DC 5V by adapter.



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3. DESCRIPTION OF TEST MODES

1		Wireless charging Mode(Full load)
2		Wireless charging Mode(half load)
3	9 -0	Wireless charging Mode(Null load)

4. SYSTEM TEST CONFIGURATION

Item	Equipment	Model No.	ID or Specification	Remark
1	Powerwave-Wireless Charging	Powerwave	FFDD	EUT
2	Adapter	U0077	DC 5V 2.0A	Accessory
3	Wireless Load	N/A	10W	Accessory



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5. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd				
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China				
Designation Number	CN1259				
FCC Test Firm Registration Number	975832				
A2LA Cert. No.	5054.02				
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA				

TEST EQUIPMENT LIST

Description	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Broadband Field Meter	Narda Safety Test Solutions GmbH	NBM-550	J-0004	Jun.12, 2018	Jun.11, 2019
Probe FHP	Narda Safety Test Solutions GmbH	EHP-50F	J-0015	Jun.12, 2018	Jun.11, 2019



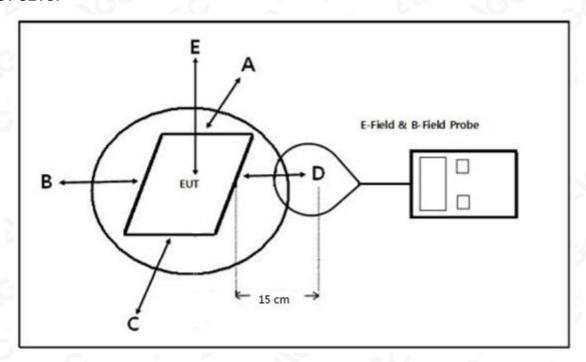


6. RADIO FREQUENCY (RF) EXPOSURE TEST

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 15 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 15 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 (20 cm measure distance);



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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 15cm from each side of the EUT. For top side the measure distance is 20cm.

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:

	Probe	Probe	Probe	Probe	Probe	Lingit
Frequency Range	Position A	Position B	Position C	Position D	Position E	Limit (V/m)
rango	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	(7/111)
161.1kHz	0.16	0.16	0.16	0.16	2.53	614

H-field strength test result:

Frequency Range	Probe Position A	Probe Position B	Probe Position C	Probe Position D	Probe Position E	Limit (A/m)
range	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	(/ (////
161.1kHz	0.08	0.08	0.08	0.08	0.66	1.63

Test condition: Mode 2 E-field strength test result:

- Fraguesia	Probe	Probe	Probe	Probe	Probe	Limit
Frequency	Position A	Position B	Position C	Position D	Position E	Limit (V/m)
Range	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	(V/III)
154.9kHz	0.16	0.16	0.16	0.16	1.79	614

H-field strength test result:

Frequency Range	Probe	Probe	Probe	Probe	Probe	l imais
	Position A	Position B	Position C	Position D	Position E	Limit
	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)
154.9kHz	0.08	0.08	0.08	0.08	0.53	1.63



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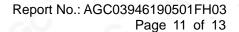
Test condition: Mode 3 E-field strength test result:

Frequency Range	Probe	Probe	Probe	Probe	Probe	Limit
	Position A	Position B	Position C	Position D	Position E	Limit (V/m)
	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	(٧/111)
135.7kHz	0.16	0.16	0.16	0.16	1.58	614

H-field strength test result:

Frequency Range	Probe	Probe	Probe	Probe	Probe	Limit
	Position A	Position B	Position C	Position D	Position E	Limit (A/m)
	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	(AVIII)
135.7kHz	0.13	0.13	0.13	0.13	0.54	1.63

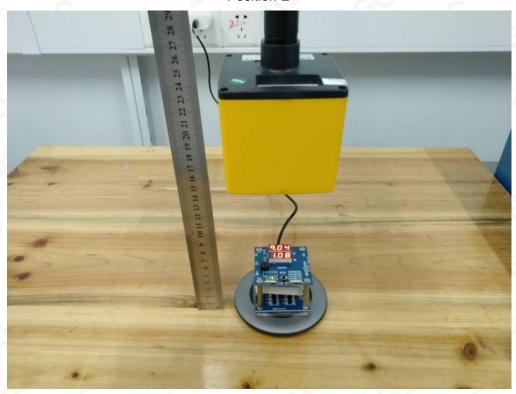




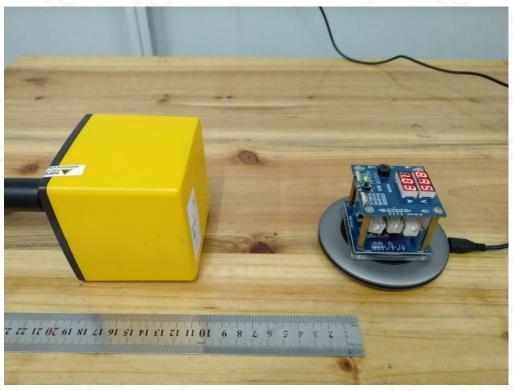


APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Position E



Position A

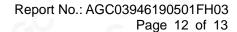




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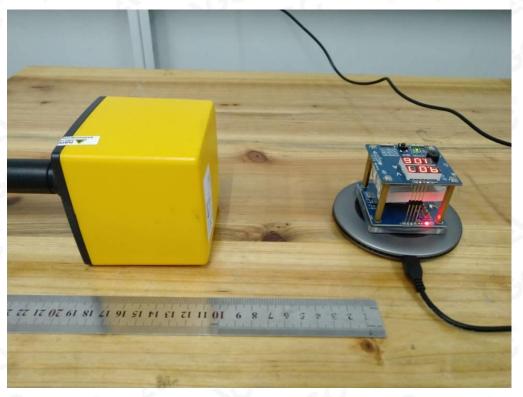
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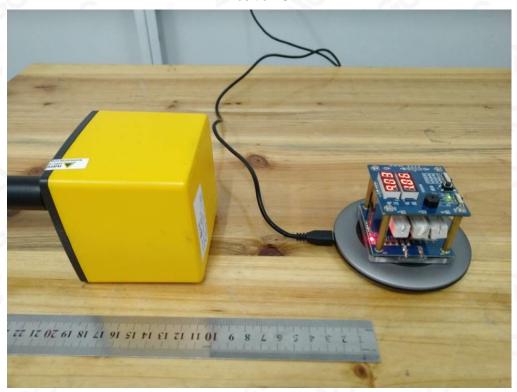








Position C



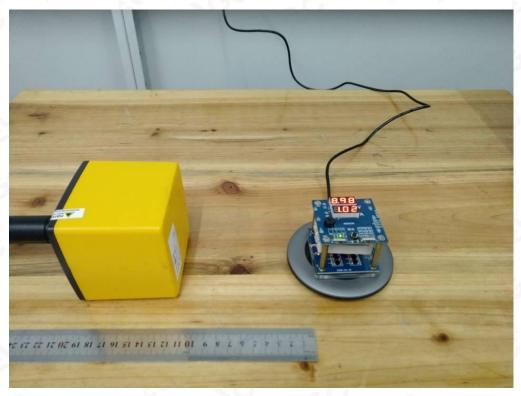


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Position D



---END OF REPORT----



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