



## **RF Exposure Evaluation Report**

**Product**: Harmony

Trade mark : Brand ()

Model/Type reference : Harmony

Serial Number : N/A

Report Number : EED32I00289403 FCC ID : 2AG5A-BRCHAR

**Date of Issue** : Dec. 07, 2016

47 CFR Part 1.1307 (2015)

**Test Standards** : 47 CFR Part 2.1093 (2015)

KDB447498D01v06

Test result : PASS

#### Prepared for:

# BrandCharger Ltd Flat H, 7/F, Mai Luen Industrial Building 23 Kung Yip Street Kwai Chung Hong Kong

Prepared by:

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## 2 Version

Version No.	Date	Description	
00	Dec. 07, 2016	Original	
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## 4 General Information

### 4.1 Client Information

Applicant:	BrandCharger Ltd
Address of Applicant:	Flat H, 7/F, Mai Luen Industrial Building 23 Kung Yip Street Kwai Chung Hong Kong
Manufacturer:	CCA DESIGNING&MANUFACTURING LIMITED
Address of Manufacturer:	BLD 120-121TH, PINGHUAN IND.CITY PINGSHAN TOWN, SHENZHEN, 518118
Factory:	CCA DESIGNING&MANUFACTURING LIMITED
Address of Factory:	BLD 120-121TH, PINGHUAN IND.CITY PINGSHAN TOWN, SHENZHEN, 518118

## 4.2 General Description of EUT

Product Name:	Harmony	-05		-01
Model No.(EUT):	Harmony	(41)		
Trade Mark:	Charger (7)			0
EUT Supports Radios application:	BT 4.2 Dual mode(2402MHz-2480MHz)		-0-	

## 4.3 Product Specification subjective to this standard

Operation Frequency:	2402MHz~2480MHz		
Modulation Type:	GFSK, π/4DQPSK, 8DPSK		
Sample Type:	Portable production		<b>/</b> 25
Power Supply:	3.7V 2000mAh(Lithium battery )		
USB Line:	62.5(Unshielded)		
Test Power Grade:	NA		
Test Software of EUT:	(manufacturer declare) ACTsBTAPP_Index 7		
Antenna Type:	Chip Antenna	(12)	
Antenna Gain:	0.5dBi	(0,)	
Max Conducted Output Power:	-0.620dBm		
Sample Received Date:	Nov. 09, 2016		-0-
Sample tested Date:	Nov. 09, 2016 to Dec. 05, 2016		(4)
The tested sample and the	e sample information are provided by the client.		

#### 4.4 Test Location

All tests were performed at:

Centre Testing International (Shenzhen) Corporation

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China518101

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.



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## 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 886427

Centre Testing International (Shenzhen) Corporation. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 886427.

IC-Registration No.: 7408A-2

The 3m Alternate Test Site of Centre Testing International (Shenzhen) Corporation. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408A-2.

IC-Registration No.: 7408B-1

The 10m Alternate Test Site of Centre Testing International (Shenzhen) Corporation., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408B-1.

**NEMKO-Aut. No.: ELA503** 

Centre Testing International Group Co., Ltd. has been assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10.

#### VCCI

The Radiation 3 &10 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-4096.

Main Ports Conducted Interference Measurement of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-4563.

Telecommunication Ports Conducted Disturbance Measurement of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-2146.

The Radiation 3 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-758

#### 4.6 Deviation from Standards

None.

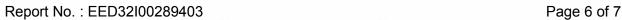
#### 4.7 Abnormalities from Standard Conditions

None.

## 4.8 Other Information Requested by the Customer

None.





## 5 RF Exposure Evaluation

## 5.1 RF Exposure Compliance Requirement

#### 5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

#### **5.1.2 Limits**

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $[\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq$  50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $\leq$  5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

#### 5.1.3 EUT RF Exposure

The Max Conducted Output Power is -0.620dBm in Highest channel(2.480GHz);

-0.620dBm logarithmic terms convert to numeric result is nearly 0.87mW

According to the formula. calculate the power test result:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]

[√f(GHz)]

General RF Exposure =  $(0.87 \text{mW} / 5 \text{ mm}) \times \sqrt{2.480 \text{GHz}} = 0.27$ 

SAR requirement:

S= 3.0 ②;

(i) < (2).

So the SAR report is not required.









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## **PHOTOGRAPHS OF EUT Constructional Details**

Refer to Report No. EED32I00289401 for EUT external and internal photos.



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