RF Exposure Report

Test report
On Behalf of
ACOUSTMAX INTERNATIONAL CO., LTD
For
ROCKIN' ROLLER CHARGE SPEAKER
Model No.: MNRRC

FCC ID: 2AAINYS1352

Prepared for :	**ACOUSTMAX INTERNATIONAL CO., LTD** **Unit D16/F Cheuk Nang Plaza 250 Hennessy Road Wanchai HongKong**
Prepared By :	**Shenzhen HUAK Testing Technology Co., Ltd.** **1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai Street, Bao'an District, Shenzhen City, China**
Date of Test:	**Dec. 28, 2018 ~ Jan. 30, 2019**
Date of Report:	**Jan. 30, 2019**
Report Number:	**HK1901030021E01**

TEST RESULT CERTIFICATION

Applicant's name	:	ACOUSTMAX INTERNATIONAL CO., LTD
Address	:	Unit D16/F Cheuk Nang Plaza 250 Hennessy Road Wanchai HongKong
Manufacture's Name	:	Arts Electronics Co., Ltd.
Address	:	NO. 1, SHANGXING LU, SHANGJIAO COMMUNITY, CHANGAN TOWN, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

Product description

Trade Mark:		MONSTER
Product name	:	ROCKIN' ROLLER CHARGE SPEAKER
Model and/or type reference	:	MNRRC
Series Model		MNRRC2, MNRRC3, MNRRCSE
Difference Description		All models covered in this report were identical with each other except different model no.and appearance(for color and silk-screen only)for trading purpose
Standards	:	KDB 680106 D01 RF Exposure Wireless Charging Base App v03

Date of Test	:	
Date (s) of performance of tests	:	Dec. 28, 2018 ~ Jan. 30, 2019
Date of Issue	:	Jan. 30, 2019
Test Result	:	**Pass**

Testing Engineer : Gary Qian

(Gary Qian)

Technical Manager : Eden Hu

(Eden Hu)

Authorized Signatory : Jason Zhou

(Jason Zhou)

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1. TEST SUMMARY

1.1 TEST PROCEDURES AND RESULTS

DESCRIPTION OF TEST	RESULT
E and H field strength measurements	Compliant

1.2 TEST FACILITY

Test Firm : Shenzhen HUAK Testing Technology Co., Ltd.

Address : 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Designation Number: : CN1229

Test Firm Registration Number : 616276

1.3 MEASUREMENT UNCERTAINTY

Measurement Uncertainty

E-field strength = 0.2dB, k=2

H-field strength = 0.3dB, k=2

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	110~148kHz
Test Frequency	146.6kHz
Maximum field strength	50.65dBuV/m(Peak)@3m
Antenna Designation	Integrated Antenna (Met 15.203 Antenna requirement)
Hardware Version	RV01
Software Version	V00
Power Supply(by battery)	DC 12V by battery
Power Supply	AC 100-240V 50/60Hz

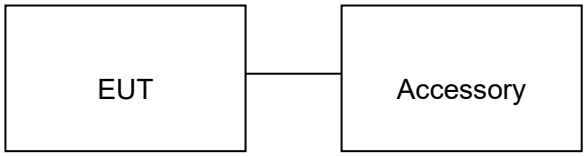
2.2 OPERATION OF EUT DURING TESTING

NO.	TEST MODE DESCRIPTION
1	Wireless charging Mode(Full load)
2	Wireless charging Mode(half load)
3	Wireless charging Mode(Null load)

Note:
1. The mode 1 was the worst case and only the data of the worst case record in this report.

2.3 DESCRIPTION OF TEST SETUP

Configure :



Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	ROCKIN' ROLLER CHARGE SPEAKER	MONSTER	MNRRC	EUT
2	AC input Cable	N/A	2.0m unshielded	Accessory
3	Wireless electronic Load	--	Maximum power 5W	AE

3. TEST EQUIPMENT LIST

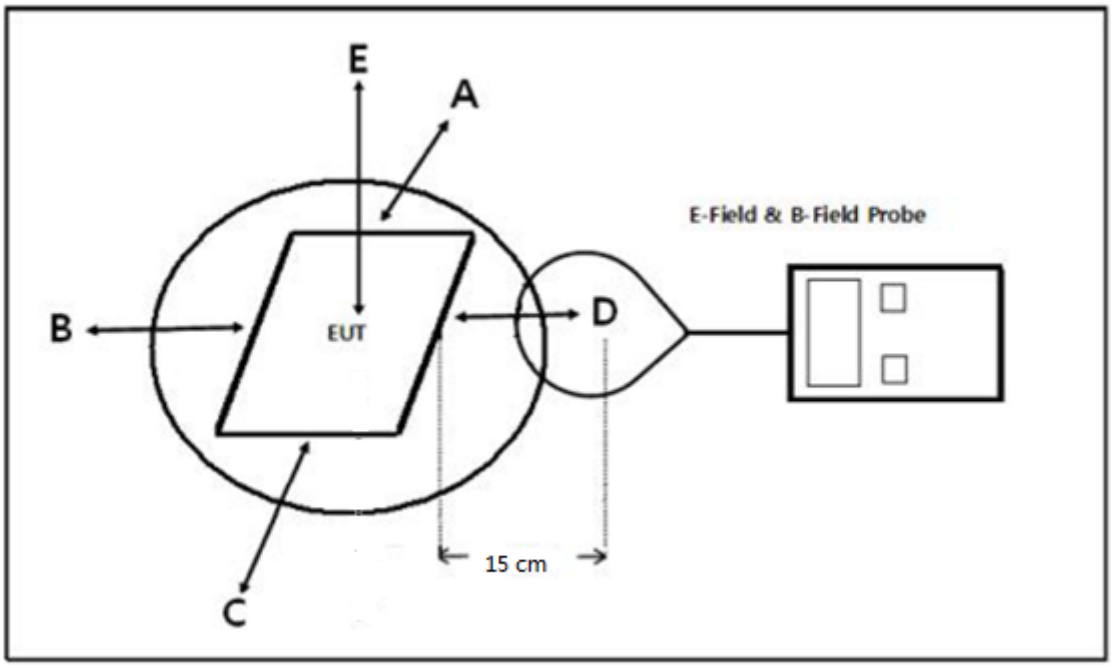
Description	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Broadband Field Meter	Narda Safety Test Solutions GmbH	NBM-550	J-0004	June 12, 2018	June 11, 2019
Probe FHP	Narda Safety Test Solutions GmbH	EHP-50F	J-0015	June 12, 2018	June 11, 2019

4. RADIO FREQUENCY (RF) EXPOSURE TEST

4.1. 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.

4.2. 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);

4.3. 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 15cm.

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.

4.4. 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)
146.6kHz	0.16	0.16	0.16	0.16	2.42	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)
146.6kHz	0.18	0.18	0.18	0.18	0.41	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)
110.4kHz	0.18	0.18	0.18	0.18	1.29	614

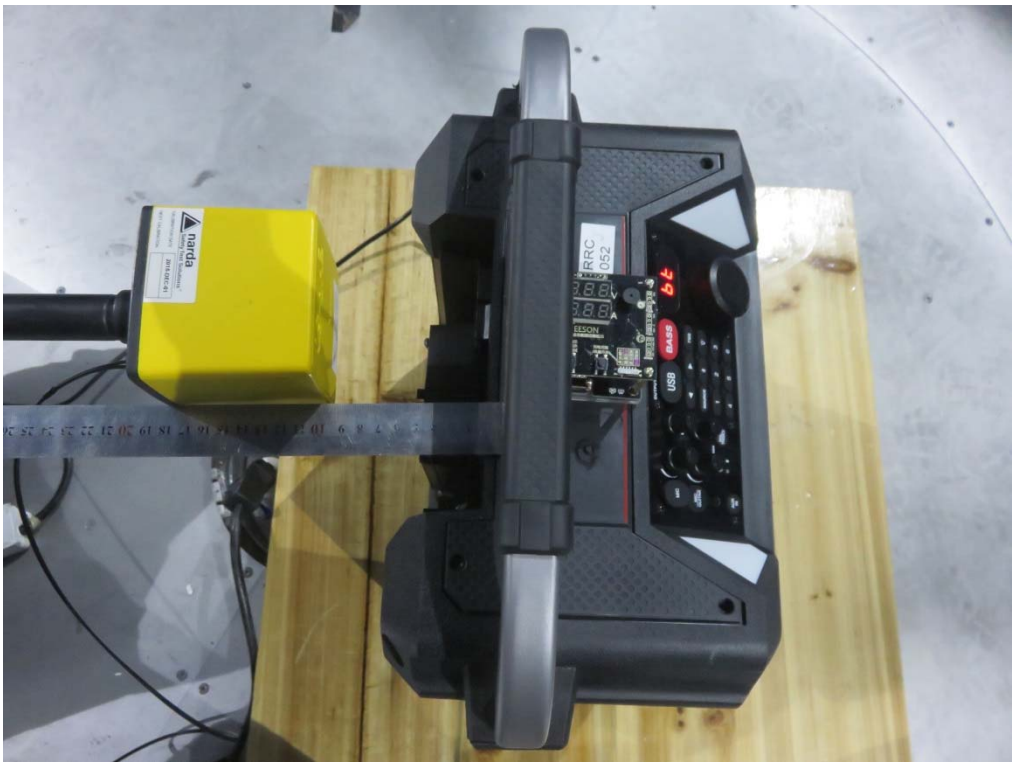
H-field strength test result:

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)
110.4kHz	0.16	0.16	0.16	0.16	0.36	1.63

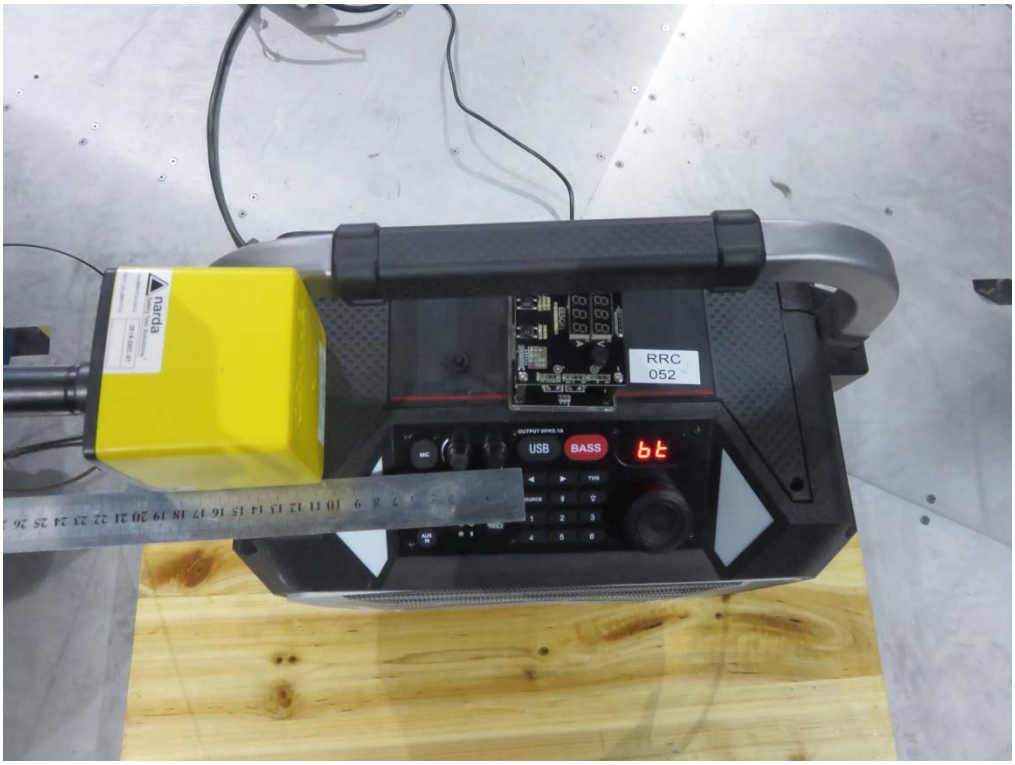
APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Position E

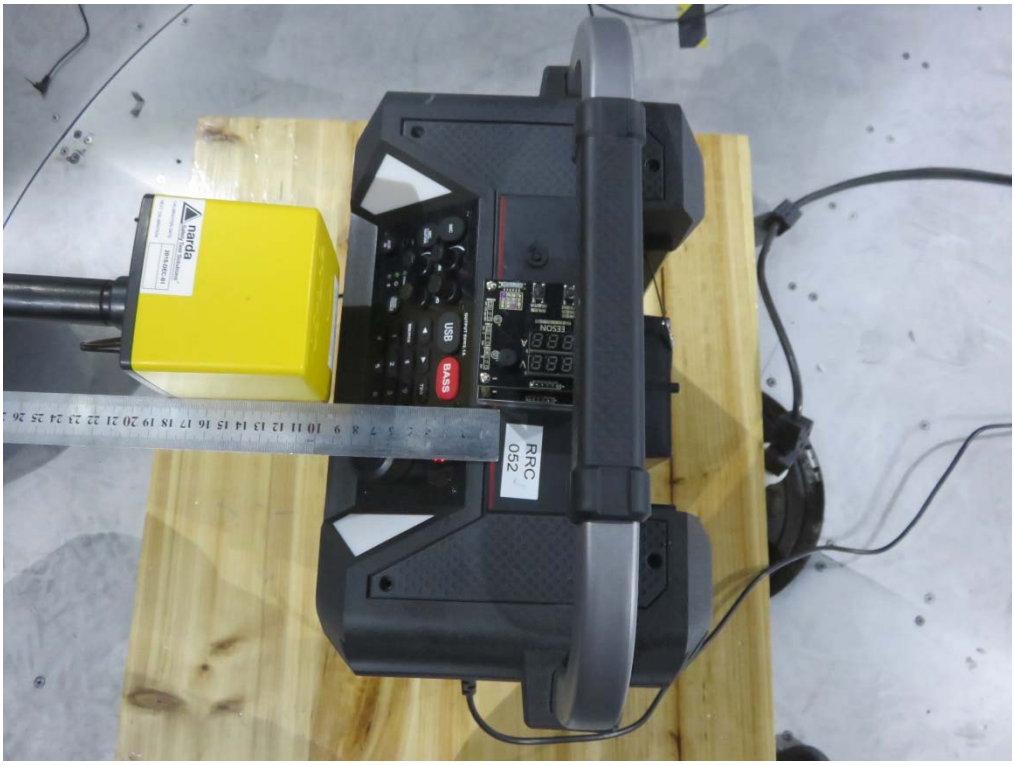
Position A



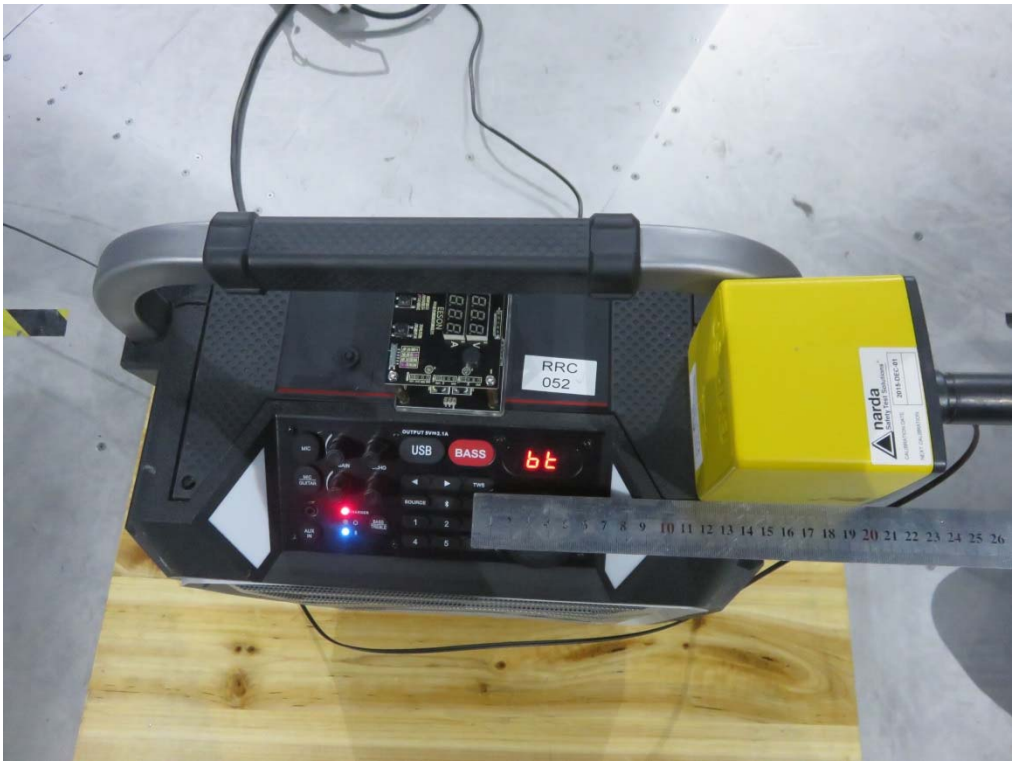
Position B



Position C



Position D



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