



RF Exposure Report

Test report
On Behalf of
Shenzhen Ruijing Industrial Co., Ltd
For
MODULAR

Model No.: MODULAR

FCC ID: 2AQXM-MODULAR

Prepared for: Shenzhen Ruijing Industrial Co., Ltd

C1 Building, Hengli Industrial Park, Xiakeng 1st Road No.168, Longgang

Street, Longgang District, Shenzhen, Guangdong, China

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: Oct, 29, 2018 to Nov. 03, 2018

Date of Report: Nov. 03, 2018
Report Number: HK1811051458E





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TEST RESULT CERTIFICATION

Applicant's name:	Shenzhen Ruijing Industrial Co., Ltd
Address:	C1 Building, Hengli Industrial Park, Xiakeng 1st Road No.168, Longgang Street, Longgang District, Shenzhen, Guangdong, China
Manufacture's Name:	Shenzhen Ruijing Industrial Co., Ltd
Address:	C1 Building, Hengli Industrial Park, Xiakeng 1st Road No.168, Longgang Street, Longgang District, Shenzhen, Guangdong, China
Product description	
Trade Mark:	N/A
Product name:	MODULAR
Model and/or type reference :	MODULAR
Standards:	KDB 680106 D01 RF Exposure Wireless Charging Base App v03
source of the material. Shenzhe	:
Date of Issue	
Test Result	
Testing Engineer	: Gard Di an L
	(Gary Qian)
Technical Manager	Edan Hu
	(Eden Hu)
Authorized Signator	y: 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 : 1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park,

Fuhai Street, Bao'an District, Shenzhen City, China

Designation Number: : CN1229

Test Firm Registration Number: 616276

1.3 MEASUREMENT UNCERTAINTY

Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2 Radiated emission expanded uncertainty(9kHz-30MHz) = 3.08dB, k=2 Radiated emission expanded uncertainty(30MHz-1000MHz) = 4.42dB, k=2 Radiated emission expanded uncertainty(Above 1GHz) = 4.06dB, k=2



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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	127.71KHz				
Maximum field strength	56.92dBuV/m(Peak)@3m				
Number of channels	1				
Antenna Designation	Integrated Antenna (Met 15.203 Antenna requirement)				
Hardware Version	WXC-105-B-V1.1				
Software Version	V1.0				
Power Supply	DC 12V by adapter				



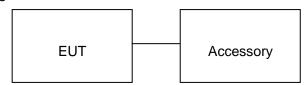
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2.2 OPERATION OF EUT DURING TESTING

NO.	TEST MODE DESCRIPTION
1	Wireless charging Mode(Full load)
2	Wireless charging Mode(half load)
3	Wireless charging Mode(Null load)
Note:	he mode 1 was the worst case and only the data of the worst case record in this report

2.3 DESCRIPTION OF TEST SETUP





Iten	n Equipment	Equipment Model No. ID or Specification		Remark
1	Wireless electronic Load		Maximum power 5W	Support
2	Adapter	RJT-AS120300E999	DC 12V/3A	AE





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3. TEST EQUIPMENT LIST

Description	Manufacturer	Model	S/N	Cal. Date	Cal. Due	
Broadband Field	Narda Safety Test	NBM-550	J-0004	June 12, 2018	June 11, 2019	
Meter	eter Solutions GmbH		J-000 4	Julie 12, 2016	Julie 11, 2019	
Draha FUD	Narda Safety Test		1.0045	lum = 40, 2040	luna 44 2040	
Probe FHP	Solutions GmbH	EHP-50F	J-0015	June 12, 2018	June 11, 2019	



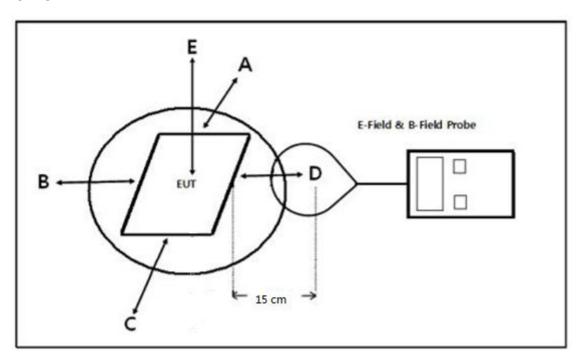
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4. RADIO FREQUENCY (RF) EXPOSURE TEST

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);



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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	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(V/m)
	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	
127.71kHz	0.16	0.16	0.16	0.16	2.24	614

H-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(A/m)
	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	
127.71kHz	0.18	0.18	0.18	0.18	0.52	1.63

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

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(V/m)
	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	
127.71kHz	0.14	0.14	0.14	0.14	1.78	614

H-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(A/m)
	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	
127.71kHz	0.12	0.12	0.12	0.12	0.41	1.63





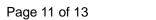
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Test condition: Mode 3 E-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(V/m)
	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	
124.3kHz	0.16	0.16	0.16	0.16	1.14	614

H-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(A/m)
	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	
124.3kHz	0.13	0.13	0.13	0.13	0.31	1.63





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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Position E



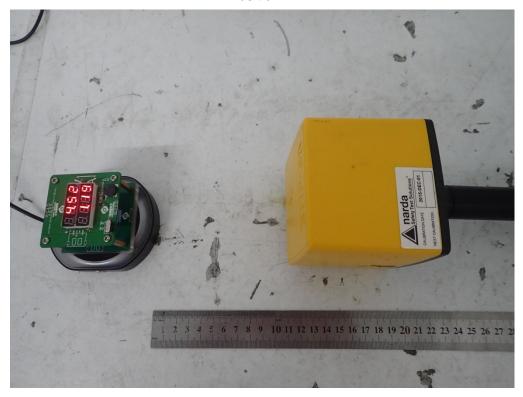
Position A



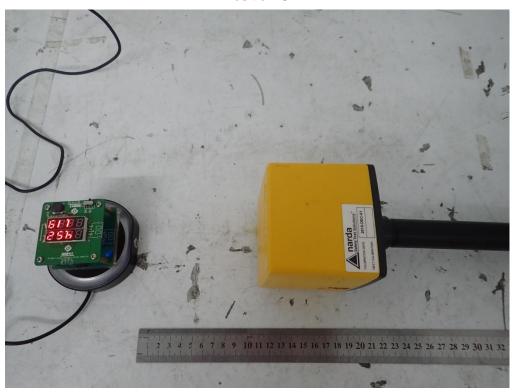


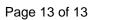
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Position B



Position C

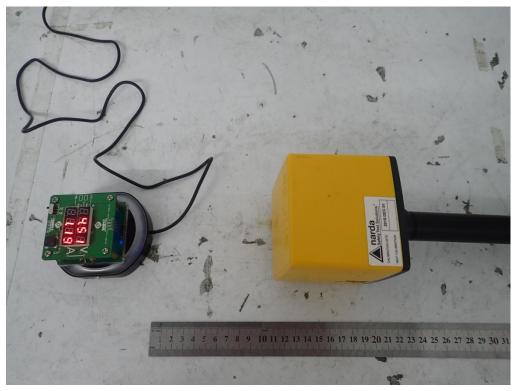






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Position D



----END OF REPORT----