

# RF EXPOSURE REPORT

The device described below is tested by Dongguan Nore Testing Center Co., Ltd. to determine the maximum emission levels emanating from the device, the severe levels which the device can endure and E.U.T.'s performance criterion. The test results, data evaluation, test procedures, and equipment of configurations shown in this report were made in accordance with the procedures in ANSI C63.10(2013).

Applicant / Manufacturer : Foshan Nanhai Raytech Electrical Appliance Company Ltd.

Address : Seven Stars District XiQiao Section, Nanhai Foshan, Guangdong, P.R.  
China

Factory : Foshan Nanhai Raytech Electrical Appliance Company Ltd.

Address : Seven Stars District XiQiao Section, Nanhai Foshan, Guangdong, P.R.  
China

E.U.T. : The Wearable Remote Controlled Stimulator

Brand Name : Deia

Model No. : 6720

FCC ID : 2A2VRDE6720

Measurement Standard : Mobile exposure requirements in Section 2.1091 and  
KDB 680106 D01 RF Exposure wireless charging Apps v03r01

Date of Receiver : June 25, 2021

Date of Test : June 25, 2021 to August 16, 2021

Date of Report : August 30, 2021

In the configuration tested, the EUT complied with the standards specified above.

This test report is for the customer shown above and their specific product only. This report applies to above tested sample only and shall not be reproduced in part without written approval of Dongguan Nore Testing Center Co., Ltd.

## 1. GENERAL INFORMATION

### 1.1 Product Description for Equipment under Test

Product Name : The Wearable Remote Controlled Stimulator  
Main Model : 6720  
Additional Model : N/A  
Model Difference : N/A

Power Supply : For wireless charging base unit: DC 5V come from USB port  
Adapter : N/A  
Test voltage : AC 120V 60Hz  
Cable : USB Line: 0.98cm unshielded

Software Version : V01  
Hardware Version : V01

Note : This report only applies to wireless charging function.

Remark : N/A

Frequency Range : 110.5-205KHz

Test frequency : 118.3KHz

Output power for each coil : 1.5W

## 1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: 2A2VRDE6720 filing to comply with Mobile exposure requirements in Section 2.1091 and KDB 680106 D01 RF Exposure wireless charging Apps v03r01

## 1.3 Test Facility and Location

### Site Description

EMC Lab : Listed by CNAS, August 13, 2018  
The certificate is valid until August 13, 2024  
The Laboratory has been assessed and proved to be in compliance with CNAS/CL01  
The Certificate Registration Number is L5795.

Listed by A2LA, November 01, 2017  
The certificate is valid until December 31, 2021  
The Laboratory has been assessed and proved to be in compliance with ISO17025  
The Certificate Registration Number is 4429.01

Listed by FCC, November 06, 2017  
The Designation Number is CN1214  
Test Firm Registration Number: 907417

Name of Firm : Listed by Industry Canada, June 08, 2017  
The Certificate Registration Number. Is 46405-9743  
Dongguan Nore Testing Center Co., Ltd.  
(Dongguan NTC Co., Ltd.)

Site Location : Building D, Gaosheng Science & Technology Park,  
Zhouxi Longxi Road, Nancheng District, Dongguan  
City, Guangdong Province, China

## 2. Measurement Uncertainty

Measurement Uncertainty for a Level of Confidence of 95%,  $U=2 \times U_c(y)$

Radiated emission(9KHz~150KHz)	$\pm 3.50\text{dB}$
Radiated emission(150KHz~30MHz)	$\pm 3.50\text{dB}$
Radiated emission(30MHz~1GHz)	$\pm 4.60\text{dB}$

### 3. Method of measurement

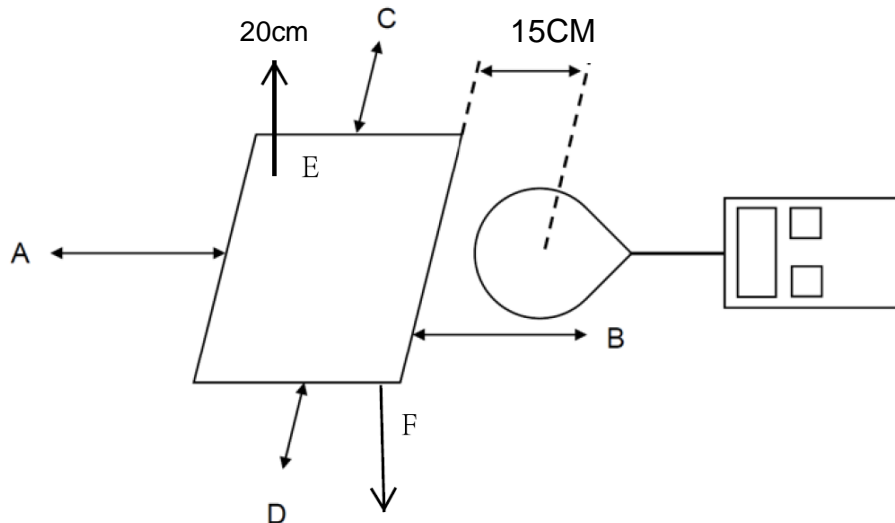
#### 3.1 Applicable standard

According to 1.1307(b)(1), system operating under the provisions of this section shall be operated in amanner that ensures that the public is not exposed to radio frequency energy level in excess of the commission's guidelines.

According to 1.1310 and 2.1091 RF exposure is calculated.

According to KDB680106 D01 v03r01: RF exposure wireless charging apps v03r01.

#### 3.2 Test Setup



#### 3.3 Test procedure

1. The RF exposure test was performed on 360 degree turn table in anechoic chamber;
2. The measurement probe was placed at test distance 15cm which is between the edge of the charger and 20cm between top of the charger and the geometric centre of probe.
3. The turn table was rotated 360d degree to search of highest strength.
4. The highest emission level was recorded and compared with limit as soon as measurement of each points (A,B,C,D,E) were completed.
5. The EUT were measured according to the dictates of KDB 680106D01 v03r01

### 3.4 Equipment approval considerations

1. The EUT dose comply with item 5.2 of KDB 680106D01V03

a, Power transfer frequency is less than 1MHz.

YES; the device operated in the frequency range from 110.5-205KHz.

b, Output power from each primary coil is less than or equal to 15 watts

YES; the maximum output power of each primary coil is 1.5 watts, the total maximum output power of the primary coil is  $3.0W < 15W$ .

c, The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.

YES; the both of primary coils can be powered on at the same time..

d, Client device is placed directly in contact with the transmitter.

YES; Client device is placed directly in contact with the transmitter.

e, Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

YES;

f, The aggregate H-field strengths at 15cm surrounding the device and 20cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

YES; The EUT field strength levels are less than  $50\% \times \text{MPE}$  limits.

### 3.5 E and H field strength Limit

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,00	/	/	1.0	30
F=frequency in MHz *=Plane-wave equivalent power density RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).				

### Test Result

Mobile phone has been charge at zero charge, intermediate charge, and full charge.

#### Electric Field Emissions

Operation frequency	Test Position	Test Distance (cm)	Probe Measure Result(V/m)			Limit (V/m)	50% Limit (V/m)
			zero charge	intermediate charge	full charge		
118.3KHz	Side A	15	2.50	2.52	2.51	614	307
	Side B	15	2.23	2.31	2.28	614	307
	Side C	15	2.40	2.47	2.43	614	307
	Side D	15	2.60	2.52	2.59	614	307
	Side E	20	2.55	2.45	2.47	614	307

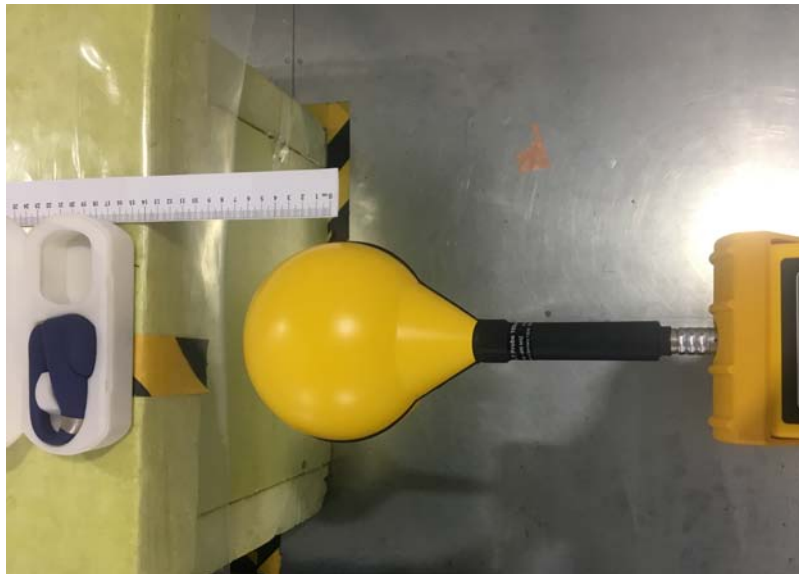
#### Magnetic Field Emissions

Operation frequency	Test Position	Test Distance (cm)	Probe Measure Result(A/m)			Limit (A/m)	50% Limit (A/m)
			zero charge	intermediate charge	full charge		
118.3KHz	Side A	15	0.0633	0.0605	0.0645	1.63	0.815
	Side B	15	0.0665	0.0669	0.0670	1.63	0.815
	Side C	15	0.0705	0.0728	0.0722	1.63	0.815
	Side D	15	0.0651	0.0642	0.0642	1.63	0.815
	Side E	20	0.0637	0.0646	0.0647	1.63	0.815

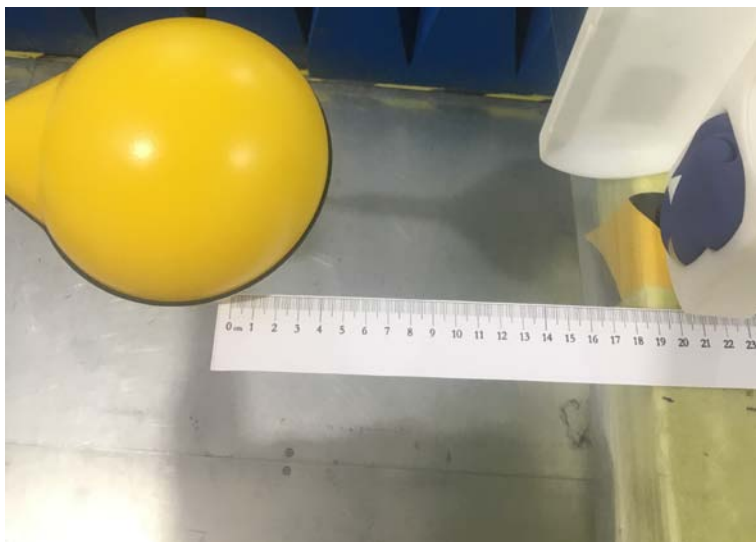
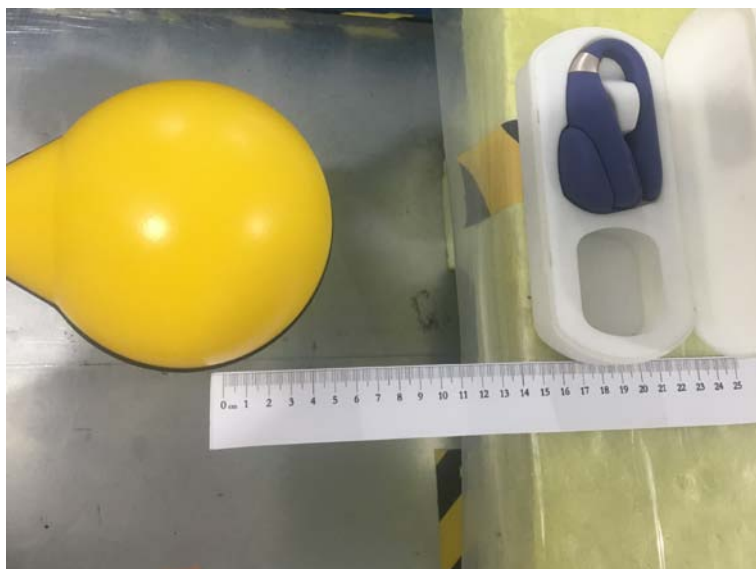
### 3.6 Test equipment list

Description	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due Date
Magnetic field probe 100cm <sup>2</sup>	Narda	ETL Probe 1Hz-400KHz	M-1587	June 28, 2021	June 27, 2022
Exposure lever tester	Narda	ETL- 400	O-0167	June 28, 2021	June 27, 2022

### 3.7 Test Photo







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