

RF EXPOSURE REPORT For FCC ID: 2ASJ2-MC802

Product Name:	Wireless Charger
Trademark:	N/A
Model Number:	MC-802 MC-801
Prepared For :	Guangdong Foshan Micreat Intelligent Technology Co.,LTD.
Address :	No 1-13 South of East Ring Road, Beijiao Town Shunde District, Foshan 528311, China
Prepared By :	Shenzhen BCTC Testing Co., Ltd.
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Test Date:	Aug. 13, 2019 – Aug. 28, 2019
Date of Report :	Aug. 28, 2019
Report No.:	BCTC-FY190804943-1E



Shenzhen BCTC Testing Co., Ltd.

TEST RESULT CERTIFICATION

Applicant's name:	Guangdong Foshan Micreat Intelligent Technology Co.,LTD.
Address:	No 1-13 South of East Ring Road, Beijiao Town Shunde District,
	Foshan 528311, China
Manufacture's Name	Guangdong Foshan Micreat Intelligent Technology Co.,LTD.
Address:	No 1-13 South of East Ring Road, Beijiao Town Shunde District,
	Foshan 528311, China
Product description	
Product name:	Wireless Charger
Trademark:	N/A
Model and/or type reference :	MC-802
Serial Model :	MC-801
Power Supply :	Input: DC 12V/1.5A, Output: DC 5V/2A, DC9V/1.2A, DC12V/1.5A
Adapter :	Model:FC67U
	Input: AC 100-240V 50/60Hz 0.8A MAX
Model Difference :	Output: DC 5V/3A, DC9V/2.66A, DC12V/2A All the model are the same circuit and RF module, except model names .
Standards	FCC CFR 47 part1, 1.1307(b), 1.1310

This device described above has been tested by BCTC, and the test results show that the equipment under And it is applicable only to the tested sample identified in the report. This report shall not be reproduced except in full, without the written approval of BCTC, this document may be altered or revised by BCTC, personal only, and shall be noted in the revision of the document.





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1. GENERAL INFORMATION

1.1. Independent Operation Mode

The basic operation mode is:

- 1.1.1. Charging
- 1.2. Test Supporting System

Adapter Description : Adapter Model No. : FC67U Power Input : AC 100-240V~50/60Hz, 0.8A MAX Output: 5V--- 3A, 9V--- 2.66A, 12V--- 2A

DC Line : Unshielded, Detachable 1m

Mobile phone Model No. : iphone8



2.LIST OF TEST AND MEASUREMENT INSTRUMENTS

2.1. For conducted emission at the mains terminals test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.	
Exposure	Neude		NI 0004			
Level Tester		ELT-400	N-0231	Jul. 15, 2019	Jul. 14, 2020	
Magnetic field	Neude	B-Field Probe	M0075		bil 44,0000	
probe 100cm2	Narda	100cm2	M0675	Jul. 15, 2019	Jul. 14, 2020	
843 Chamber	ETS	843	84301	Aug. 27, 2018	Aug. 26, 2021	



3. METHOD OF MEASUREMENT

3. 1. Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner 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 §2.1093 RF exposure is calculated. According KDB680106 D01v03: RF Exposure Wireless Charging Apps v02.

3. 2. Test Modes

Test Modes

keeping TX+Charging mode

3. 3. MAXIMUM PERMISSIBLE EXPOSURE

Limit of Maximum Permissible Exposure

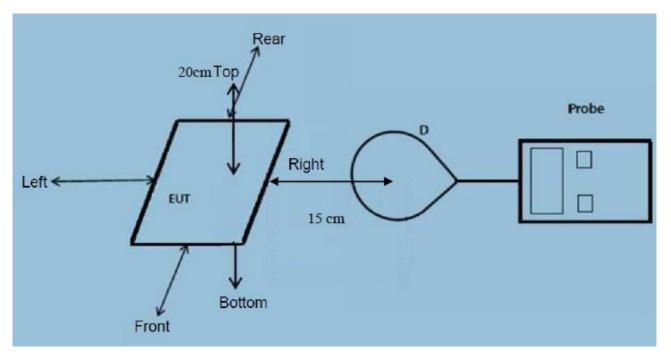
Limits for Occupational / Controlled Exposure							
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time E ², H ² or S (minutes)			
0.3-3.0	614	1.63	(100)*	6			
3.0-30	1842 / f	4.89 / f	(900 / f)*	6			
30-300	61.4	0.163	1.0	6			
300-1500			F/300	6			
1500-100,000			5	6			

Limits for General Population / Uncontrolled Exposure							
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time E ², H ² or S (minutes)			
0.3-1.34	614	1.63	(100)*	30			
1.34-30	824/f	2.19/f	(180 / f)*	30			
30-300	27.5	0.073	0.2	30			
300-1500			F/1500	30			
1500-100,000			1	30			



4. TEST RESULT

4.1. Conducted Emission at the Mains Terminals Test



Note: 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

Test Procedure:

a) The RF exposure test was performed on 360 degree turn table in anechoic chamber.

b) The measurement probe was placed at test distance (15cm) which is between the edge of the charger and the geometric centre of probe.

c) The turn table was rotated 360d degree to search of highest strength.

d) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.

e) The EUT were measured according to the dictates of KDB 680106D01v03.



4.2. Equipment Approval Considerations:

The EUT does comply with item 5(b) of KDB 680106 D01v03

- 1) Power transfer frequency is less than 1MHz Yes, the device operate in the frequency range from 110 KHz to 205 KHz
- 2) Output power from each primary coil is less than or equal to 15 watts.

Yes, the maximum output power of the primary coil is 15W.

3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that able to detect and allow coupling onlybetween individual pair of coils.

Yes, the transfer system includes only single primary and secondary coils.

4) Client device is inserted in or placed directly in contact with the transmitter.

Yes, client device is placed directly in contact with the transmitter.

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

Yes, the EUT is a Mobile Wireless Charger

6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm 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 50% x MPE limit.



4.3. E and H field Strength

(The worst data)

E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Battery	Frequency	Test	Test	Test	Test	Test	Test	50%	Limits
level	Range (MHz)	Position	Position	Position	Position	Position	Position	Limits	Test
		А	В	С	D	E	F	Test	(V/m)
								(V/m)	
1%	0.110-0.205	0.78	0.64	0.65	0.63	0.75	0.62	307	614
50%	0.110-0.205	0.59	0.58	0.57	0.51	0.42	0.63	307	614
99%	0.110-0.205	0.58	0.45	0.42	0.56	0.53	0.51	307	614

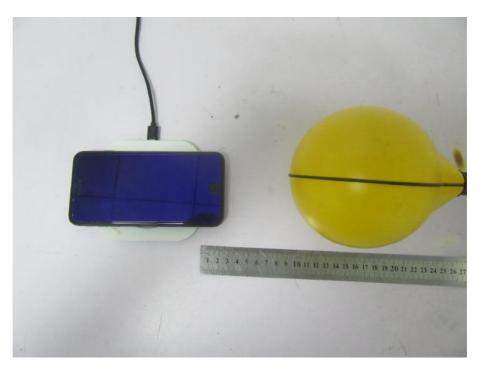
H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

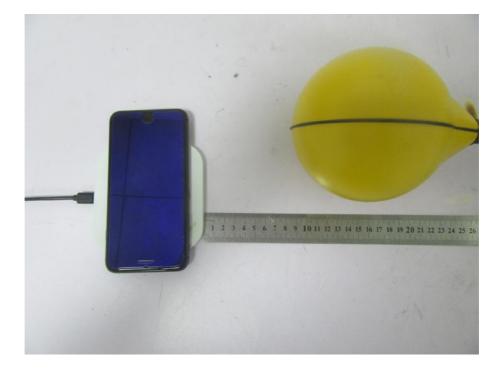
Battery	Frequency	Test	Test	Test	Test	Test	Test	50%	Limits
level	Range (MHz)	Position	Position	Position	Position	Position	Position	Limits	Test
		А	В	С	D	Е	F	Test	(A/m)
								(A/m)	
1%	0.110-0.205	0.38	0.26	0.25	0.17	0.15	0.15	0.815	1.63
50%	0.110-0.205	0.24	0.26	0.23	0.16	0.17	0.16	0.815	1.63
99%	0.110-0.205	0.18	0.19	0.15	0.14	0.14	0.13	0.815	1.63



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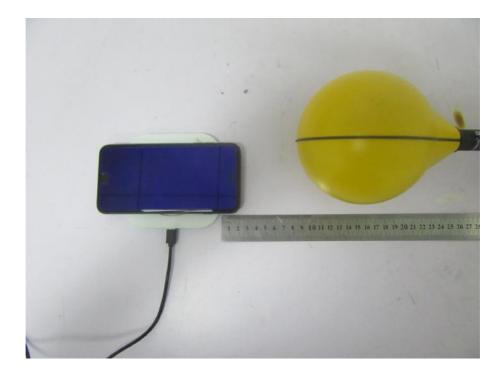
5. Photographs of test set-up

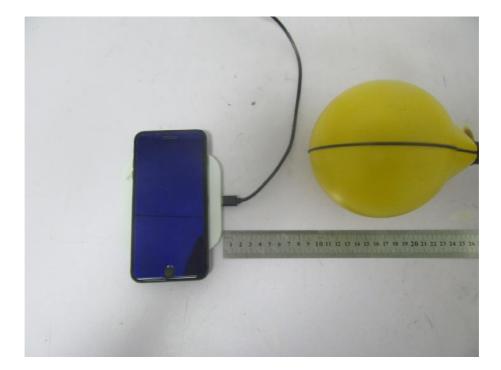




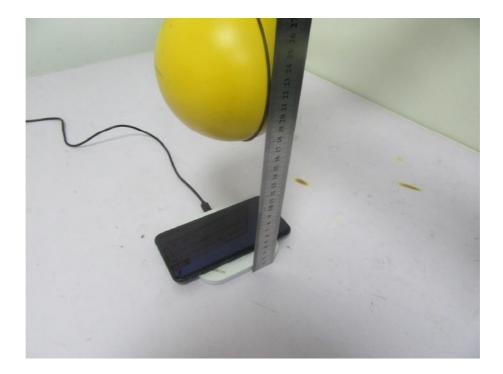


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