

Global United Technology Services Co., Ltd.

Report No.: GTS201705000049F02

RF EXPOSURE REPORT

Guangzhou Smamao Electronic Technology Co.,Ltd Applicant:

Address of Applicant: Room 811, Building 8, No.315, Central City Middle Road,

Yuexiu District, Guangzhou, China

Manufacturer: Guangzhou Smamao Electronic Technology Co., Ltd

Address of Room 811, Building 8, No.315, Central City Middle Road,

Yuexiu District, Guangzhou, China Manufacturer:

Equipment Under Test (EUT)

Product Name: Fast Wireless Charger

Model No.: Q550, S110, S220, S440, S550, S660, S770, S880, S990,

\$100, \$200, \$300, \$400, \$500, \$600, \$700, \$800, \$900.

SNPA087AB, GEPA090AB

FCC ID: 2AKQO-Q550

FCC CFR Title 47 Part 15 Subpart C:2016 **Applicable standards:**

Date of sample receipt: May 04, 2017

Date of Test: May 05-11, 2017

Date of report issued: May 12, 2017

Test Result: PASS *

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

Authorized Signature:

Robinson Lo **Laboratory Manager**

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.



2 Version

Version No.	Date	Description
00	May 12, 2017	Original

Prepared By:	Tiger Cha	Date:	May 12, 2017	
	Project Engineer			
Check By:	Reviewer	Date:	May 12, 2017	



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Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



4 General Information

4.1 General Description of EUT

Product Name: Fast Wireless Charger						
Model No.:	Q550, S110, S220, S440, S550, S660, S770, S880, S990, S100, S200, S300, S400, S500, S600, S700, S800, S900, SNPA087AB, GEPA090AB					
Test Model No.: Q550						
Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. only differences are the model name and appearance color for commercial purpose.						
Operation Frequency: 120kHz ~ 205KHz						
Modulation type: Backscatter modulation						
Antenna Type: Inductive loop coil antenna						
Antenna gain:	0dBi (declared by manufacturer)					
Power supply: Charging voltage: DC 5.0V/2A or DC 9V/1.8A						



4.2 Test Facility

• FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen 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 files. Registration 600491, June 22, 2016.

• Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, August 15, 2016

4.3 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

4.4 Other Information Requested by the Customer

None.

4.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC Approval	
N/A	Load	N/A	N/A	VOC	



5 Test Instruments list

Rad	liated Emission:					
Item	Test Equipment	Manufacturer	Model No.	SN.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	N/A	July 03 2015	July 02 2020
2	Exposure Level Tester	Narda	ELT-400	N-0231	June 29 2016	June 28 2017
3	Magnetic field probe 100cm ²	Narda	ELT probe 100cm ²	M0675	June 29 2016	June 28 2017

6 Method of measurement

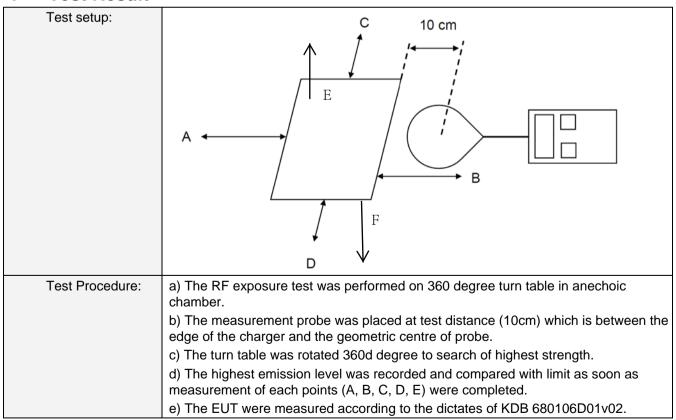
6.1 Applicable Standard

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 D01v02: RF Exposure Wireless Charging Apps v02.

7 Test Result



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7.1 Equipment Approval Considerations:

	• • • • • • • • • • • • • • • • • • • •
Th	e EUT does comply with item 5.2 of KDB 680106 D01v02
a)	Power transfer frequency is less than 1MHz.
	Yes; the device operate in the frequency range from 120 KHz to 205 KHz
b)	Output power from each primary coil is less than 5 watts
	Yes; the maximum output power of the primary coil is 4W<5W.
c)	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 only between individual pair of coils.
	Yes; the transfer system includes only single primary and secondary coils.
d)	Client device is inserted in or placed directly in contact with the transmitter.
	Yes; Client device is placed directly in contact with the transmitter.
e)	The maximum coupling surface area of the transmit (charging) device:
	Yes; The EUT coupling surface area was 82.6 cm2>60cm2
f)	Aggregate leakage fields at 10cm surrounding the device from all simultaneous transmitting coils are demonstrated to be less than 30% of the MPE limit.
	Yes; The EUT field strength levels are 30% x MPE limit.

7.2 E and H field Strength

Fraguanay	E-Filed Strength at 10 cm from the edges surrounding the EUT (V/m)						
Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	Limits (V/m)
0.120-0.205	1.13	2.02	0.58	0.66	1.98	2.15	614

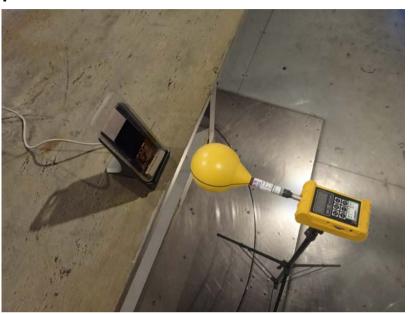
Frequency Range (MHz)	H-Filed Strength at 10 cm from the edges surrounding the EUT (A/m)						Limita
	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	Limits (A/m)
0.120-0.205	0.61	0.78	0.44	0.55	0.72	0.83	1.63

Note: Full load and no load mode all have been tested, only worse case full load mode is reported

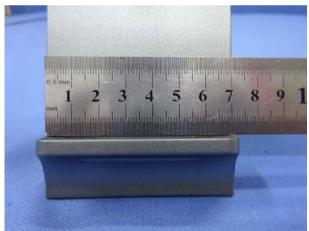
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8 Test Setup Photo







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