EXPOSURE REPORT

FCC ID: 2AR4X-H1

Date of issue: Dec. 20, 2018

Report Number: MTi181219E126

Sample Description: Wireless Power Charging

Model(s): H1, H2, H1-BM01, H1-BM02, H1-BM03, H1-GQBT01, H1-

GQBT03, H1-GQBT02, H1-GQBT04, H1-GQFT01, H1-

YQFT03

Applicant: Shenzhen Invispower Technology Co., Ltd.

Address: 13B Xusheng Building, No.4004 Baoan Avenue, Baoan District,

Shenzhen

Date of Test: Dec. 12, 2018 – Dec. 20, 2018

Shenzhen Microtest Co., Ltd.

http://www.mtitest.com

Table of Contents

Applicant's name:	Shenzhen Invispower Technology Co., Ltd.			
Address:	13B Xusheng Building, No.4004 Baoan Avenue, Baoan District, Shenzhen			
Manufacture's name:	Shenzhen Invispower Technology Co., Ltd.			
Address:	13B Xusheng Building, No.4004 Baoan Avenue, Baoan District, Shenzhen			
Product name:	Wireless Power Charging			
Trademark:	INVISPOWER			
Model name:	H1, H2, H1-BM01, H1-BM02, H1-BM03, H1-GQBT01, H1-GQBT03, H1-GQBT02, H1-GQBT04, H1-GQFT01, H1-YQFT03			
Standard:	FCC CFR 47 PART 1 , 1.1310			
RF Exposure Procedures:	KDB 680106 D01 RF Exposure Wireless Charging App v03			
	has been tested by Shenzhen Microtest Co., Ltd. and the test results er test (EUT) compliance with the FCC requirements. And it is applicable ntified in the report.			
Tested by	y: Demi Mu			

Dec. 20, 2018

Dec. 20, 2018

Dec. 20, 2018

Blue. Zheng

Swith chen

Demi Mu

Blue Zheng

Smith Chen

Reviewed by:

Approved by:

1 General Information

1.1 Description of EUT

Product name:	Wireless charger
Trademark:	INVISPOWER
Model name:	H1
Series model:	H2, H1-BM01, H1-BM02, H1-BM03, H1-GQBT01, H1-GQBT03, H1-GQBT02, H1-GQBT04, H1-GQFT01, H1-YQFT03
Deference in serial model:	All the model are the same circuit and RF module, except the appearance size.
Operation frequency:	115–205 kHz
Operational mode:	Wireless charging
Modulation type:	Load modulation
Antenna type:	Coil Antenna (Met 15.203 Antenna requirement)
Power source:	DC 12V from DC power supply
Battery:	N/A
Adapter information:	N/A

1.2 Ancillary equipment list

Equipment	Model	S/N	Manufacturer
DC power supply	/	/	/
Mobile phone	S8	/	SAMSUNG

1.3 Measurement uncertainty

Measurement Uncertainty for a Level of Confidence of 95 %, U=2xUc(y)

Radiated emission(150kHz~30MHz)	± 2.5 dB
Radiated emission(30MHz~1GHz)	± 4.2 dB
Radiated emission (above 1GHz)	± 4.3 dB
Temperature	±1 degree
Humidity	± 5 %

2 Testing site

Test Site	Shenzhen Microtest Co., Ltd
Test Site Location	No.102A & 302A, East Block, Hengfang Industrial Park, Xingye Road, Xixiang, Bao'an District, Shenzhen, Guangdong, China
FCC Registration No.:	448573

3 List of test equipment

Equipment No.	Equipment Name	Manufacturer	Model	Serial No.	Calibration date	Due date
MTI-E068	Broadband Field Meter	Narda Safety Test Solutions GmbH	NBM- 520	D-1699	2018/07/13	2019/07/12
MTI-E069	Probe E- Field	Narda Safety Test Solutions	EF0691	H-0571	2018/07/13	2019/07/12

4 Test Results

1.4 Maximum permissible exposure

1.4.1 Limit

Frequency range(MHz)	Electric field strength(V/m)	Magnetic field strength(A/m)	Power density(mW/cm2)	Averaging time(minutes)	
	(A) Limits fo	r Occupational/Contr	olled Exposure		
0.3-3.0	614	1.63	*100	6	
3.0-30	1842/f	4.89/f	*900/f ²	6	
30-300	61.4	0.163	1.0 6	6	
300-1500			f/300	6	
1500-100000			5	6	
(B) Limits for General Population/Uncontrolled Exposure					
0.3-1.34	614	1.63	*100	30	
1.34-30	824/f	2.19/f	*180/f ²	30	
30-300	27.5	0.073	0.2	30	
300-1500		_	f/1500	30	
1500-100000			1	30	
f = frequency in MHz * = Plane-wave equivalent power density					

1.4.2 Test Procedures

E and H-field measurements should be made with the center of the probe at a distance of 15 cm surrounding the device and 20 cm above the top surface of the primary/client pair.

These measurements should be repeated for three different client battery levels, 1%, 50%, and 99%.

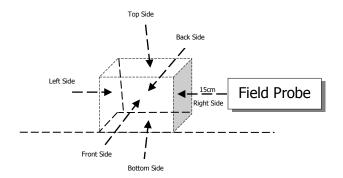
Record the test results.

KDB 680106 D01 RF Exposure Wireless Charging App v03:

- (1) Power transfer frequency is less than 1MHz.
- (2) Output power from each primary coil is less than or equal to 15 watts.
- (3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.
- (4) Client device is placed directly in contact with the transmitter.
- (5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
- (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.

Note: The device is in compliance with KDB 680106 D01 RF Exposure Wireless Charging App v03 6 conditions.

1.4.3 Test Setup



1.4.4 Test Result

Maximum permissible Exposure					
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)	
<1%	Тор	20	2.324	0.068	
<1%	Bottom	15	2.237	0.064	
<1%	Left	15	2.234	0.049	
<1%	Right	15	2.231	0.064	
<1%	Front	15	2.251	0.047	
<1%	Back	15	2.228	0.058	
Limit			614	1.63	
Margin Limit (%)			0.379	4.172	

Maximum permissible Exposure					
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)	
<50%	Тор	20	2.318	0.061	
<50%	Bottom	15	2.305	0.060	
<50%	Left	15	2.325	0.054	
<50%	Right	15	2.306	0.064	
<50%	Front	15	2.332	0.065	
<50%	Back	15	2.303	0.063	
Limit			614	1.63	
Margin Limit (%)			0.378	3.742	

Maximum permissible Exposure					
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)	
<99%	Тор	20	2.426	0.078	
<99%	Bottom	15	2.445	0.061	
<99%	Left	15	2.427	0.075	
<99%	Right	15	2.445	0.064	
<99%	Front	15	2.423	0.069	
<99%	Back	15	2.422	0.074	
Limit			614	1.63	
	Margin Limit (%)	0.395	4.785		

1.4.5 MPE Setup photo



----END OF REPORT----