FCC MPE TEST REPORT

FCC ID: 2AQ3PSDLW16001

Product: Wireless Charger

Trade Name: N/A

Model Name: W16

W17, W18, W19, W20, W21, W22, W23, **Serial Model:** W24, W25, W26, W27, W28, W29, W30

Report No.: UNIA2018082414-2FR-01

Prepared for

Qi Power Electronic Technology Co., Ltd. 4/F B8 Building, Xiufeng Industrial Park, Buji Town, Longgang District, Shenzhen China

Prepared by

Shenzhen United Testing Technology Co., Ltd.

2F, Annex Bldg, Jiahuangyuan Tech Park, #365 Baotian 1 Rd, Tiegang Community, Xixiang Str, Bao'an District, Shenzhen, China

TEST RESULT CERTIFICATION

Applicant's name:	Shenzhen Aidelong Electronic Technology Co., Ltd.
Address:	4/F B8 Building, Xiufeng Industrial Park, Buji Town, Longgang District, Shenzhen China
Manufacture's Name:	Shenzhen Aidelong Electronic Technology Co., Ltd.
Address:	4/F B8 Building, Xiufeng Industrial Park, Buji Town, Longgang District, Shenzhen China
Product description	
Product name:	Wireless Charger
Model name:	N/A
	W16, W17, W18, W19, W20, W21, W22, W23, W24, W25, W26, W27, W28, W29, W30
Standards:	FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03
Co., Ltd., and the test results with the FCC requirements. A report. This report shall not be reproducument may be altered or	has been tested by Shenzhen United Testing Technology show that the equipment under test (EUT) is in compliance and it is applicable only to the tested sample identified in the duced except in full, without the written approval of UNI, this revised by Shenzhen United Testing Technology Co., Ltd., noted in the revision of the document.
Date of Test	:
Date (s) of performance of tests.	: Aug. 24, 2018 ~ Sep. 13, 2018
Date of Issue	: Sep. 13, 2018
Test Result	: Pass
Prepared by:	Kahn yang/Editor
Reviewer:	Sherwin Q or Sherwin Q or Sherwin Q or Supervisor
Approved & Authorized Signe	er:Liuze/Manager

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

	Channel List										
Channel	Frequency(KHz)	Channel	Frequency(MHz)								
01	125										

The EUT antenna is Coil Antenna. No antenna other than that furnished by the responsible party shall be used with the device.

1. SUMMARY OF TEST RESULTS

1.1 Test procedures according to the technical standards: FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03

FCC CFR 47									
Standard Section	Test Item	Judgment	Remark						
FCC CFR 47 part1,	Electric Field Strength (E) (V/m)	PASS							
1.1310 KDB680106 D01 v03(3)(3)	Magnetic Field Strength (H) (A/m)	PASS							

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95%.

No.	Item	Uncertainty
1	All emissions,radiated(<30M)(9KHz-30MHz)	±2.45dB
2	Temperature	±0.5°C
3	Humidity	±2%

1.3 Test Instruments

Description	Brand	Model No.	Frequency Range	Calibrated Until	
Broadband Field Meter	NARDA	NBM-550		Jan. 01, 2019	
Magnetic Field Meter	NARDA	ELT-400	1–400kHz	Jan. 01, 2019	
Magnetic Probe	NARDA	HF-3061	300kHz-30MHz	Jan. 01, 2019	
Magnetic Probe	NARDA	HF-0191	27–1000MHz	Jan. 01, 2019	
Broadband Field Meter	NARDA	NBM-550		Jan. 01, 2019	
Electric Field Meter	COMBINOVA	EFM 200	5Hz-400kHz	Jan. 01, 2019	
E-Field Probe	NARDA	EF-0391	100kHz–3GHz	Jan. 01, 2019	
E-Field Probe	NARDA	EF-6091	100MHz-60GHz	Jan. 01, 2019	

NOTE: The calibration interval of the above test instruments is 12 months.

2. MAXIMUM PERMISSIBLE EXPOSURE

2.1 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 Genera	al Population / Uncontro	olled 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					

Note 1: f = frequency in MHz; *Plane-wave equivalent power density.

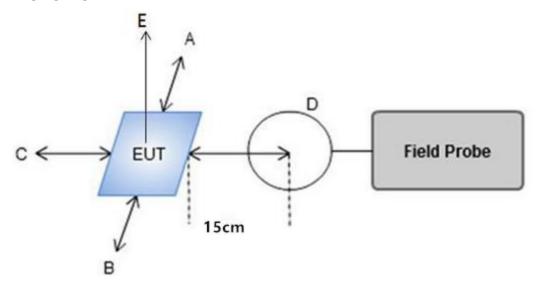
^{2:} For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v03.

^{3:} 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. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

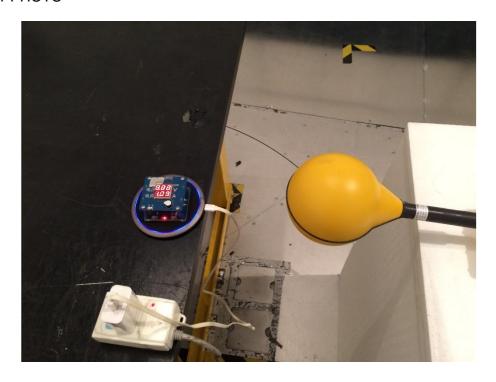
3. TEST PROCEDURE

a. 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.

4.1 TEST SETUP



4.2 TEST PHOTO



4.3 RESULT OF MAXIMUM PERMISSIBLE EXPOSURE

5V Input

For Charging mode: less than 1% battery status of client device

E-Filed Strength at 15 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		Limits Test (V/m)
0.125	9.31	7.39	10.11	10.43	11.82	184.2	614

H-Filed Strength at 15 cm from the edges surrounding the EUT (A/m)

Frequency	Test	Test	Test	Test	Test		Limits Test
Range (MHz)	Position A	Position B	Position C	Position D	Position E		(A/m)
0.125	0.220	0.153	0.107	0.105	0.118	0.489	1.63

For Charging mode: less than 50% battery status of client device

E-Filed Strength at 15 cm from the edges surrounding the EUT (V/m)

	Frequency	Test	Test	Test	Test	Test	Reference	Limits Test
]	Range (MHz)	Position A	Position B	Position C	Position D	Position E	Limit (V/m)	(V/m)
	0.125	9.15	7.32	10.12	10.23	11.52	184.2	614

H-Filed Strength at 15 cm from the edges surrounding the EUT (A/m)

Frequency	Test	Test	Test	Test	Test	Reference	Limits Test
Range (MHz)	Position A	Position B	Position C	Position D	Position E	Limit (A/m)	(A/m)
0.125	0.213	0.149	0.104	0.102	0.110	0.489	1.63

For Charging mode: 100% battery status of client device

E-Filed Strength at 15 cm from the edges surrounding the EUT (V/m)

= 1 1100 2010112	5011 WU TU VIII	3.0111 1110 00.5	05 5011 5 011101	<u>6 </u>	(1 / 111)		
Frequency	Test	Test	Test	Test	Test	Reference	Limits Test
Range (MHz)	Position A	Position B	Position C	Position D	Position E	Limit (V/m)	(V/m)
0.125	8.97	7.06	10.02	10.11	10.93	184.2	614

H-Filed Strength at 15 cm from the edges surrounding the EUT (A/m)

Frequency	Test	Test	Test	Test	Test	Reference	Limits Test
Range (MHz)	Position A	Position B	Position C	Position D	Position E	Limit (A/m)	(A/m)
0.125	0.212	0.152	0.102	0.104	0.113	0.489	1.63

9V Input

For Charging mode: less than 1% battery status of client device

E-Filed Strength at 15 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	Reference Limit (V/m)	
0.125	13.24	10.45	8.11	7.57	8.45	184.2	614

H-Filed Strength at 15 cm from the edges surrounding the EUT (A/m)

Frequency	Test	Test	Test	Test	Test	Reference	Limits Test
Range (MHz)	Position A	Position B	Position C	Position D	Position E	Limit (A/m)	(A/m)
0.125	0.326	0.095	0.101	0.110	0.100	0.489	1.63

For Charging mode: less than 50% battery status of client device

E-Filed Strength at 15 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		Limits Test (V/m)
0.125	12.85	10.38	8.01	7.47	8.42	184.2	614

H-Filed Strength at 15 cm from the edges surrounding the EUT (A/m)

Frequency	Test	Test	Test	Test	Test	Reference	Limits Test
Range (MHz)	Position A	Position B	Position C	Position D	Position E	Limit (A/m)	(A/m)
0.125	0.295	0.087	0.097	0.106	0.094	0.489	1.63

For Charging mode: 100% battery status of client device

E-Filed Strength at 15 cm from the edges surrounding the EUT (V/m)

Frequency	Test	Test	Test	Test	Test	Reference	Limits Test
Range (MHz)	Position A	Position B	Position C	Position D	Position E	Limit (V/m)	(V/m)
0.125	12.75	10.33	7.98	8.41	8.41	184.2	614

H-Filed Strength at 15 cm from the edges surrounding the EUT (A/m)

Frequency	Test	Test	Test	Test	Test	Reference	Limits Test
Range (MHz)	Position A	Position B	Position C	Position D	Position E	Limit (A/m)	(A/m)
0.125	0.302	0.089	0.095	0.104	0.097	0.132	1.63

*****THE END****