

Test Report

Report No.: MTi241031015-01E2

Date of issue: 2024-11-15

Applicant: Shenzhen Anxinwei Electronic Technology Co., Limited

Product: GaN 65W Magnetic Wireless Charging Stand

Model(s): W08A, W08, W08B, W08C, W08D

FCC ID: 2BL94-W08A

Shenzhen Microtest Co., Ltd. http://www.mtitest.cn



Instructions

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- 2. The test results in this test report are only responsible for the samples submitted
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- 4. This test report is invalid if transferred, altered, or tampered with in any form without authorization.
- 5. Any objection to this test report shall be submitted to the laboratory within 15 days from the date of receipt of the report.



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Test Result Certification					
Applicant: Shenzhen Anxinwei Electronic Technology Co., Limited					
Address:	Room 201, Building 2, Xinhaosheng Industrial Park, Yonghe Road, Heping Community, Fuhai Street, Baoan District, Shenzhen, China				
Manufacturer:	Shenzhen Anxinwei Electronic Technology Co., Limited				
Address:	Room 201, Building 2, Xinhaosheng Industrial Park, Yonghe Road, Heping Community, Fuhai Street, Baoan District, Shenzhen, China				
Product description					
Product name:	GaN 65W Magnetic Wireless Charging Stand				
Trademark:	N/A				
Model name:	W08A				
Series Model:	W08, W08B, W08C, W08D				
Standards:	47 CFR PART 1, § 1.1310				
Test method:	KDB 680106 D01 Wireless Power Transfer v04				
Date of Test					
Date of test:	2024-11-11 to 2024-11-14				
Test result:	Test result: Pass				

Test Engineer	:	Letter. Lan.	
		(Letter Lan)	
Reviewed By	:	Dowid. Cee	
		(David Lee)	
Approved By	:	leon chen	
		(Leon Chen)	



1 General Description

1.1 Description of the EUT

Product name:	GaN 65W Magnetic Wireless Charging Stand			
Model name:	W08A			
Series Model(s):	W08, W08B, W08C, W08D			
Model difference:	All the models are the same circuit and module, except the model name.			
Electrical rating:	Rated Input: AC100-240V, 50/60Hz, 1.8A(Max.) Rated Output 1: USB-C PD 5V 3A, 9V 3A, 12V 3A, 15V 3A, 20V 3.25A (65W Max) Rated Output 2: USB-A 5V 3A, 9V 2A, 12V 1.5A (18W Max.) Mobile Phone Wireless Output: 15W/10W/7.5W/5W Earbuds Wireless Output: 5W Watch Wireless Output: 5W USB-C + USB-A Output: 45W+18W USB-C + USB-A +Wireless Charger Output: 27W+ 18W+ 20W Maximum Output: 65W			
Accessories:	N/A			
Hardware version:	AXV10-V2.0			
Software version:	AXV10_D9512-V1.0			
Test sample(s) number:	MTi241031015-01S1001			
RF specification				
Operating frequency range:	Transmitter1 (Phone): 115- 205kHz Transmitter2 (Earbuds): 115- 205kHz Transmitter3 (Watch): 300- 350kHz			
Modulation type:	ASK			
Antenna(s) type:	Coil			

1.2 Description of test modes

All the test modes were carried out with the EUT in normal operation, the final test mode of the EUT was the worst test mode for emission test, which was shown in this report and defined as:

No.	Emission test modes	
Mode1	Wireless output(5W)+Earphone(5W)+Watch(3W)	
Mode2	Wireless output(7.5W)+Earphone(5W)+Watch(3W)	
Mode3	Wireless output(10W)+Earphone(5W)+Watch(3W)	
Mode4	Wireless output(15W)+Earphone(5W)+Watch(3W)	
Mode5	Wireless output(5W)+Earphone(5W)	
Mode6	Wireless output(7.5W)+Earphone(5W)	
Mode7	Wireless output(10W)+Earphone(5W)	
Mode8	Wireless output(15W)+Earphone(5W)	
Mode9	Wireless output(5W)+Watch(3W)	
Mode10	Wireless output(7.5W)+Watch(3W)	

Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China. Tel: 0755-88850135-1439 Mobile: 131-4343-1439 (Wechat same number) Web: http://www.mtitest.cn E-mail: mti@51mti.com



Mode11	Wireless output(10W)+Watch(3W)	
Mode12	Wireless output(15W)+Watch(3W)	
Mode13	Earphone(5W)+Watch(3W)	
Mode14	Wireless output(5W)	
Mode15	Wireless output(7.5W)	
Mode16	Wireless output(10W)	
Mode17	Wireless output(15W)	
Mode18	Wireless Watch(3W)	
Mode19	Wireless Earphone(5W)	
Mode20	Stand by	



1.3 Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support equipment list							
Description	Model	Serial No.	Manufacturer				
MI CHARGE(33W) MDY-11-EX SA6231162		SA623116200029J	MI				
Watch	iWatch SE	FH7PP6BAG91J6	Apple				
Air Pods MQD83CH/A Moible Phone Find x3		/	Apple				
		/	OPPO				
Support cable list	Support cable list						
Description	From	То					
/	/	/	/				

2 Measurement uncertainty

Parameter	Expanded Uncertainty	
Magnetic field measurements(3kHz~10MHz)	\pm 14.8 $\%$	
Electric field measurements(3kHz~10MHz)	±17.5%	

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



3 Test facilities and accreditations

3.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573



4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
MTI-E143	Near-field Electric and Magnetic Field Sensor System		MAGPy-8H3D +ED3	3101	2024/3/12	2027/3/11

No.	Equipment	Manufacturer	Model	Software version:	Cal. date	Cal. Due
MTI-E016S	MPE test software	SPEAG	MAGPY 2.6	2.6	/	/

5 Test result

5.1.1 Requirement

§1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of this chapter.

Table 1 to §1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)			
(i) Limits for Occupational/Controlled Exposure							
0.3-3.0	614	1.63	*(100)	≤6			
3.0-30	1842/f	4.89/f	*(900/f²)	<6			
30-300	61.4	0.163	1.0	<6			
300-1500			f/300	<6			
1500-100000			5	<6			
	(ii) Limits for Genera	l Population/Uncontrolled E	Exposure				
0.3-1.34	614	1.63	*(100)	<30			
1.34-30	824/f	2.19/f	*(180/f²)	<30			
30-300	27.5	0.073	0.2	<30			
300-1500			f/1500	<30			
1500-100000			1.0	<30			

f = frequency in MHz

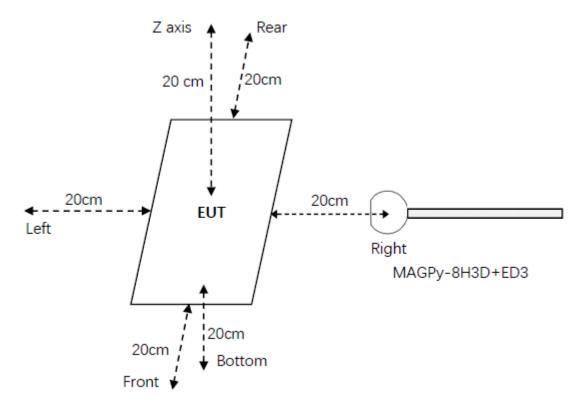
Note 1: Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

Note 2: General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

^{* =} Plane-wave equivalent power density



5.2 Test setup



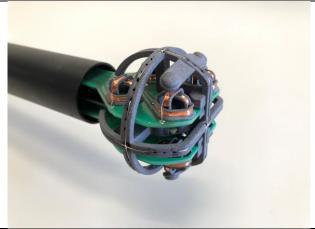
5.3 Test Procedures

- a. The RF exposure test was performed in anechoic chamber.
- b. E and H-field measurements should be made with these devices considered to meet the § 2.1091-Mobile conditions ("generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the RF source's radiating structure(s) and [the nearest person]").
- c. The highest emission level was recorded and compared with limit.
- d. The EUT was measured according to the dictates of KDB 680106 D01 Wireless Power Transfer v04.



5.4 Information of test equipment

Test equipment: MAGPy-8H3D+ED3	
Diameter	60mm
8 isotropic H-field sensors	Concentric loops of 1cm ² arranged at the corner of a cube of 22mm side length
1 isotropic E-field sensor	Orthogonal dipole/monopple(arm length:50mm)
Measurement center	18.5mm from the probe tip
Dimensions	110*635*35mm (MAGPy-8H3D+E3D V2 & MAGPy-DAS V2)



Test probe, without the casing

5.5 Test results

Test condition 1: Mode 4 operating mode with client device (1 % battery status of client device)

Probe Position	E –field (V/m)			H–field (A/m)		
	Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)
Z axis	2.15	614	0.34%	0.06	1.63	5.52%
Left	0.93			0.03		
Right	0.94			0.04		
Front	1.17			0.05		
Rear	1.74			0.09		
Bottom	0.99			0.06		

Test condition 2: Mode 4 operating mode with client device (50 % battery status of client device)

Probe Position	E –field (V/m)			H–field (A/m)		
	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
Z axis	2.13	614	0.33%	0.05	1.63	4.91%
Left	0.91			0.02		
Right	0.92			0.03		
Front	1.14			0.04		
Rear	1.71			0.08		
Bottom	0.94			0.06		

Test condition 3: Mode 4 operating mode with client device (99 % battery status of client device)

Probe Position	E –field (V/m)			H-field (A/m)		
	Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)
Z axis	2.08	614	0.32%	0.04	1.63	4.29%
Left	0.87			0.02		
Right	0.88			0.03		
Front	1.13			0.03		
Rear	1.70			0.07		
Bottom	0.94			0.05		



Photographs of the Test Setup

See the Appendix - Test Setup Photos.

Photographs of the EUT

See the Appendix - EUT Photos.

----End of Report----