

Test Report

Report No.: MTi241106009-01E2

Date of issue: 2024-12-02

Applicant: youqujile shenzhen chuangyi electronic technology co.,ltd

Product: Wireless Charger

Model(s): CS02, CS03, CS04, CS05, CS06, CS07, CS08

FCC ID: 2BF7P-WCSCH

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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Test Result Certification				
Applicant:	youqujile shenzhen chuangyi electronic technology co.,ltd			
Address:	Room 101, Building A, No.5 Yanhe Rd, 3rd Industry Zone, Bantian ST, Longgang, Shenzhen, China			
Manufacturer:	youqujile shenzhen chuangyi electronic technology co.,ltd			
Address:	Room 101, Building A, No.5 Yanhe Rd, 3rd Industry Zone, Bantian ST, Longgang, Shenzhen,China			
Product description				
Product name:	Wireless Charger			
Trademark:	N/A			
Model name:	CS02			
Series Model:	CS03, CS04, CS05, CS06, CS07, CS08			
Standards:	47 CFR PART 1, § 1.1310			
Test method:	KDB 680106 D01 Wireless Power Transfer v04			
Date of Test				
Date of test:	2024-11-08 to 2024-11-18			
Test result:	Pass			

Test Engineer	:	Yanice Xie
		(Yanice.Xie)
Reviewed By	••	Dowid. Cee
		(David Lee)
Approved By	•••	leon chan
		(Leon Chen)



1 General Description

1.1 Description of the EUT

Product name:	Wireless Charger		
Model name:	CS02		
Series Model:	CS03, CS04, CS05, CS06, CS07, CS08		
Model difference:	All the models are the same circuit and module, except the model name.		
Electrical rating:	Input: DC 9V/2A, 12V/1.5A Wireless output: Phone:5W/7.5W/10W/15W Max Earphone:5W Watch:2.5W		
Accessories:	Cable:USB-A to Type-C 1m		
Hardware version:	V1.0		
Software version:	V1.0		
Test sample(s) number:	MTi241106009-01S1001		
RF specification:			
Operation frequency:	Coil 1(Phone):115-205kHz ency: Coil 2(Airpods):115-205kHz Coil 3(Watch):300-350kHz		
Modulation type:	ASK		
Antenna 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 Phone(5W)+Earphone(5W)+Watch(2.5W)	
Mode2	Wireless output Phone(7.5W)+Earphone(5W)+Watch(2.5W)	
Mode3	Wireless output Phone(10W)+Earphone(5W)	
Mode4	Wireless output Phone(10W)+Watch(2.5W))	
Mode5	Wireless output Phone(7.5W)+Earphone(5W)	
Mode6	Wireless output Phone(7.5W)+Watch(2.5W)	
Mode7	Wireless output Phone(5W)+Earphone(5W)	
Mode8	Wireless output Phone(5W)+Watch(2.5W)	
Mode9	Wireless output Earphone(5W)+Watch(2.5W)	
Mode10	Wireless output Phone(5W)	
Mode11	Wireless output Phone(7.5W)	
Mode12	Wireless output Phone(10W)	
Mode13	Wireless output Phone(15W)	
Mode14	Wireless Output Watch(2.5W)	



Mode15 Wireless Output Earphone (5W)

Mode16 Standby

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



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		
Adapter	/	/	Lenovo		
Watch	iWatch SE	FH7PP6BAG91J6	Apple		
Air Pods	MQD83CH/A	/	Apple		
Moible Phone	Iphone 8	/	Apple		
Support cable list	Support cable list				
Description	Length (m)	From	То		
/	/	/	/		

2 Measurement uncertainty

Parameter	Expanded Uncertainty
Magnetic field measurements(3kHz~10MHz)	±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
	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 Oc	cupational/Controlled Expo	sure	
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	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

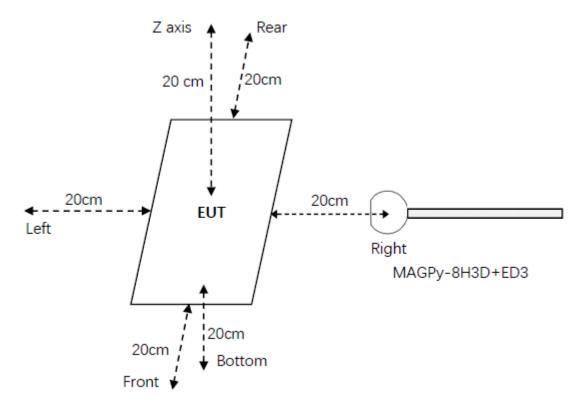
Note 1: Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

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



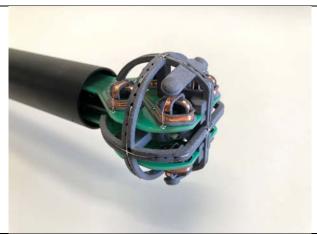
5.3 Test Procedures

- 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 2 operating mode with client device (1 % 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	5.77	614	0.94%	0.02	1.63	1.96%
Left	1.42			0.03		
Right	0.85			0.02		
Front	0.98			0.02		
Rear	0.79			0.03		
Bottom	0.66			0.02		

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	Percentage (%)	Measurement	Limit	Percentage (%)
Z axis	7.21	614	1.17%	0.03	1.63	2.45%
Left	1.78			0.04		
Right	1.06			0.02		
Front	1.23			0.02		
Rear	0.99			0.04		
Bottom	0.82			0.02		

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	4.69	614	0.76%	0.02	1.63	1.60%
Left	1.16			0.03		
Right	0.69			0.01		
Front	0.80			0.01		
Rear	0.64			0.03		
Bottom	0.53			0.01		



Photographs of the Test Setup

See the Appendix - Test Setup Photos.

Photographs of the EUT

See the Appendix - EUT Photos.

----End of Report----