

# **FCC TEST REPORT**

Test report
On Behalf of
Guanyu (Shenzhen) Electronic Technology Co.,Ltd.
For
Wireless Charger
Model No.: GY-Z6S

FCC ID: 2A2HX-GY-Z6S

Prepared For: Guanyu (Shenzhen) Electronic Technology Co.,Ltd.

3rd Floor, Building62, Houting Community Second Industrial Zone, Shajing

Street, Bao'an, Shenzhen, China

Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping,

Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Date of Test: Apr. 25, 2022 ~ May. 07, 2022

Date of Report: May. 07, 2022

Report Number: HK2204251728-2E

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



Note:

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

Report No.: HK2204251728-2E

2

			Chani	nel List			
Channel	Frequency (KHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	121	MAKTE		$m^G$	WAKTE		TING
MAKTES	0		MAKTE		<b>.</b>	32.52	JAKTES
) "			(D)			(6)	
		STING			ESTING		

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

#### 2. SUMMARY OF TEST RESULTS

2.1. Test procedures according to the technical standards:
FCC KDB680106 D01 RF Exposure Wireless Charging Apps v03r01

	- 1/ 37	-4117	- (/)	-4114
		FCC CFR 47		
Standard Section		Test Item	Judgment	Remark
FCC CFR 47 part1,	Electric Fig	eld Strength (E) (V/m)	PASS	MAK TESTING
1.1310 KDB680106 - D01v03r01 (3)(3)	Magnetic F	ield Strength (H) (A/m)	PASS	LAY TESTINE

#### 2.2. 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  $\mathbf{95}$  %.

AKTES	No.	Item was to	Uncertainty		
	1 All emissions, radiated(<30M)(9KHz-30MHz)		±3.90dB		
ESTING	2	Temperature	±0.5°C		
	3 HUAN	Humidity	±2%		

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com



# 2.3. Test Mode

	EUT Mode	Description			
		Cell phone setting 15W			
	ANT 1	Cell phone setting 10W			
HUAKTL	ANT	Cell phone setting 7.5W			
	(iii)	Cell phone setting 5W			
	ANT 2	Cell earbuds setting 3W			
aniG	ANT 3	Cell watch setting 2.5W  Cell phone setting 15W+ Cell watch setting 2.5W  Cell phone setting 15W+ Cell earbuds setting 3.0W  Cell watch setting 2.5W+ Cell earbuds setting 3.0W			
Charging	ANT 1+ANT 2				
O HOM	ANT 1+ANT 3				
	ANT 2+ANT 3				
MHUAK TE	ANT1+ANT2+ANT3	Cell phone setting 15W+ Cell watch setting 2.5W+ Cell earbuds setting 3.0W			

# 2.4. Test Instruments

Description	Brand	Model No.	Frequency Range	Calibrated Date	Calibrated Until
Exposure Level Tester	narda	ELT-400	N-0231	Feb. 18, 2022	Feb. 17, 2023
Magnetic field probe 100cm <sup>2</sup>	narda	ELT probe 100cm2	M0675	Feb. 18, 2022	Feb. 17, 2023

NOTE: 1. The calibration interval of the above test instruments is 12 months.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



#### 3. MAXIMUM PERMISSIBLE EXPOSURE

Limit of Maximum Permissible Exposure

	Limits for Occ	cupational / Controlle	ed Exposure		
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> 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	NG WHOM	TING	F/300	, 6 , salv	
1500-100,000	HU!	HUAN S	5 HUAKT	6	
	Limits for General	Population / Uncon	trolled 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	TESTING		F/1500	30	
1500-100,000	UG HUAR	DITT- Die	HUAN 1	30	

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

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

Note 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 1.63A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannon be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

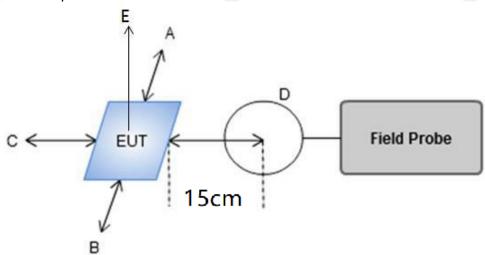


#### 4. TEST PROCEDURE

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 (H-field & E- field strengths for all sides is 15cm, H-field strengths of top side is 20cm).

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 Result Of Maximum Permissible Exposure

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



# All test modes are tested, and the report shows only the worst mode: ANT1+ANT2+ANT3

H-Field Strength at 15 cm (E top side: 20cm) from the edges surrounding the EUT (A/m)

Field strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (A/m)
uT 👸	0.098	0.156	0.199	0.241	0.288	1
A/m	0.078	0.125	0.159	0.193	0.230	1.63

Note.

Calculation: A/m=uT/1.25

# For Half Load mode:

H-Field Strength at 15 cm (E top side: 20cm) from the edges surrounding the EUT (A/m)

Field strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (A/m)
uT	0.111	0.123	0.257	0.269	0.302	/
A/m	0.089	0.098	0.206	0.215	0.242	1.63

Note.

Calculation: A/m=uT/1.25

#### For No load mode:

H-Field Strength at 15 cm (E top side: 20cm) from the edges surrounding the EUT (A/m)

Field strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (A/m)
. uT	0.101	0.158	。 0.187	0.225	0.369	β /
A/m	0.081	0.126	0.150	0.180	0.295	1.63

Note.

Calculation: A/m=uT/1.25



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannon be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com



Remark: According KDB 680106 D01 RF Exposure Wireless Charging App v03r01, section 5, b). 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. The E- field evaluation conducted assuming a user separation distance of 15 cm according to the KDB 680106 D01 RF Exposure Wireless Charging App v03 section 3, c).

Result: The device comply with the RF exposure requirement according to 680106 D01 v03r01, section 5, b):

- (1) The operating frequency is 111.5KHz~205KHz, is less than 1MHz.
- (2) The max Output power for each primary coil is 10W, ≤ 15W.
- (3) The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.
- (4) Client device is placed directly in contact with the transmitter.
- (5) 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.
- (6) This device is used for mobile exposure conduction only.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannon be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com

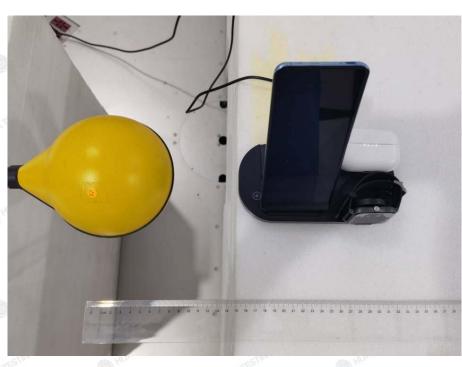


# PHOTOGRAPH OF TEST

Report No.: HK2204251728-2E

HK.

Α



В



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

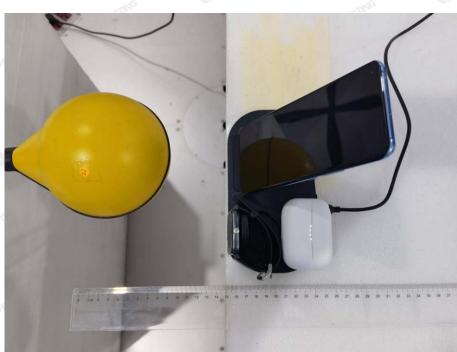
TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com







D



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.





RITEICATION



\*\*\*\*\*THE END\*\*\*\*

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.