

# RF EXPOSURE Test Report

**Product:** 3-IN-1 Wireless Charging Station

**Trade Mark:** YOUNUO IET, PRXOUIEO

**Model Number:** W225

**FCC ID:** 2A3DP-W225

**Prepared for**

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**Prepared by**

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**TEST RESULT CERTIFICATION**

**Applicant's Name**..... : Shenzhen Younuo Intelligent Electronic Technology Co., Ltd  
**Address** ..... : 2/F, Building, NO.2070JinCheng Road, Ho Yi Community,  
Shajing Town baoan District, Shenzhen Guang Dong  
**Manufacturer's Name** ..... : Shenzhen Younuo Intelligent Electronic Technology Co., Ltd  
**Address** ..... : 2/F, Building, NO.2070JinCheng Road, Ho Yi Community,  
Shajing Town baoan District, Shenzhen Guang Dong

**Product description**

**Product name** ..... : 3-IN-1 Wireless Charging Station  
**Model Number** ..... : W225

**Standards** ..... : FCC CFR 47 PART 1 , 1.1310

**Test procedure**..... : KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01

This device described above has been tested by Shenzhen HongBiao Certification& Testing Co.,Ltd and the test results show that the equipment under test (EUT) is in compliance with the EMC requirements. And it is applicable only to the tested sample identified in the report.

**Date of Test**..... :

**Date (s) of performance of tests**..... : Jul. 11, 2023~ Aug. 21, 2023

**Test Result**..... : **Pass**

**Testing Engineer** : Zoe su  
( Z o e S u )

**Technical Manager** : Gary Lu  
( G a r y L u )

**Authorized Signatory** : Leo Su  
( L e o S u )

**Revision History**

<b>Revised No.</b>	<b>Date of Issue</b>	<b>Description</b>
01	Aug. 21, 2023	Original

# 1 General Description

## 1.1 Description of EUT

Product name:	3-IN-1 Wireless Charging Station
Model name:	W225
Series Model:	N/A
Different of series model:	N/A
Operation frequency:	Watch: 326.5kHz Phone: 115kHz–205kHz Air pods: 115kHz–205kHz
Operational mode:	Wireless charging
Modulation type:	FSK
Antenna type:	Coil Antenna
Hardware version:	WGY_0857_V1.0
Software version:	V1.0
Power supply:	Type-C Input: DC 5V/3A, 9V/2.5A, 12V/1.875A Wireless Output(Phone): 5W/7.5W/10W/15W(Max) Wireless Output(Watch): 2-3W(Max) Wireless Output(Air pods): 5W(Max)
Adapter information:	Model: EP-TA800 Input: 100V-240V~50/60Hz, 0.7A Output: (PDO) 5V/3A, 9V/2.77A (PPS)3.3-5.9V/3A or 3.3-11V/2.25A RISK OF ELECTRIC SHOCK/RISQUE DE CHOC ELECTRIQUE

## 1.2 Test Mode

Pretest Test Mode	Description of Mode
1	Wireless Output (Phone:15W+Watch:2.5W+Air pods:5W)
2	Wireless Output (Phone:10W+Watch:3W+Air pods:5W)
3	Wireless Output (Phone:7.5W+Watch:3W+Air pods:5W)
4	Wireless Output (Phone:5W+Watch:3W+Air pods:5W)
The test data only show worst test mode: Mode 2	

## 1.3 Test Setup

See photographs of the test setup in the report for the actual setup and connections between EUT and support equipment.

#### 1.4 Ancillary Equipment

Equipment	Model	S/N	Manufacturer
Watch	/	/	Apple Inc.
Air pods	/	/	HUAWEI
Phone	iPhone 12pro	/	Apple Inc.
Adapter	MDY-10-EH	AA61905921 4271G	Selkang (Guigang) Co., Ltd

## 2 Test Facilities and Accreditations

### 2.1 Test Laboratory

Test Site	Shenzhen HongBiao Certification& Testing Co., Ltd
Test Site Location	Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen, China
Telephone:	(86-755) 2998 9321
Fax:	(86-755) 2998 5110
FCC Registration No.:	CN1341
A2LA Certificate No.:	6765.01

### 2.2 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C~35°C
Relative Humidity:	20%~75%
Air Pressure:	98kPa~101kPa

### 2.3 Measurement Uncertainty

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

Measurement Frequency Range	U, (dB)	Note
RF frequency	$2 \times 10^{-5}$	
RF power, conducted	$\pm 0.57$ dB	
Conducted emission(150kHz~30MHz)	$\pm 2.5$ dB	
Radiated emission(30MHz~1GHz)	$\pm 4.2$ dB	
Radiated emission (above 1GHz)	$\pm 4.7$ dB	
Temperature	$\pm 1$ degree	
Humidity	$\pm 5$ %	

### 2.4 Test Software

Software name	Manufacturer	Model	Version
EHP200-TS	Narda	EHP-200A	Rel 1.95

### 3 List of Test Equipment

Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E073	Electric and Magnetic Field Analyzer	Narda	EHP-200A	180ZX11013	2023-06-09	2024-06-08

Note: the calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



## 4 RF Exposure

### 4.1 Maximum Permissible Exposure

#### 4.1.1. Limit

Frequency range(MHz)	Electric field strength(V/m)	Magnetic field strength(A/m)	Power density(mW/cm <sup>2</sup> )	Averaging time(minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f <sup>2</sup>	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 <sup>2</sup>	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				

#### 4.1.2. 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%.

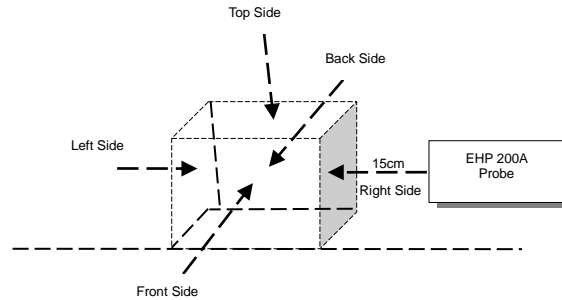
Record the test results.

KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01:

- (1) Power transfer frequency is less than 1 MHz
- (2) Output power from each primary coil is less than or equal to 15 watts.
- (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) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
- (6) The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.

Note: The device is in compliance with KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01 6 conditions.

**4.1.3. Test Setup**



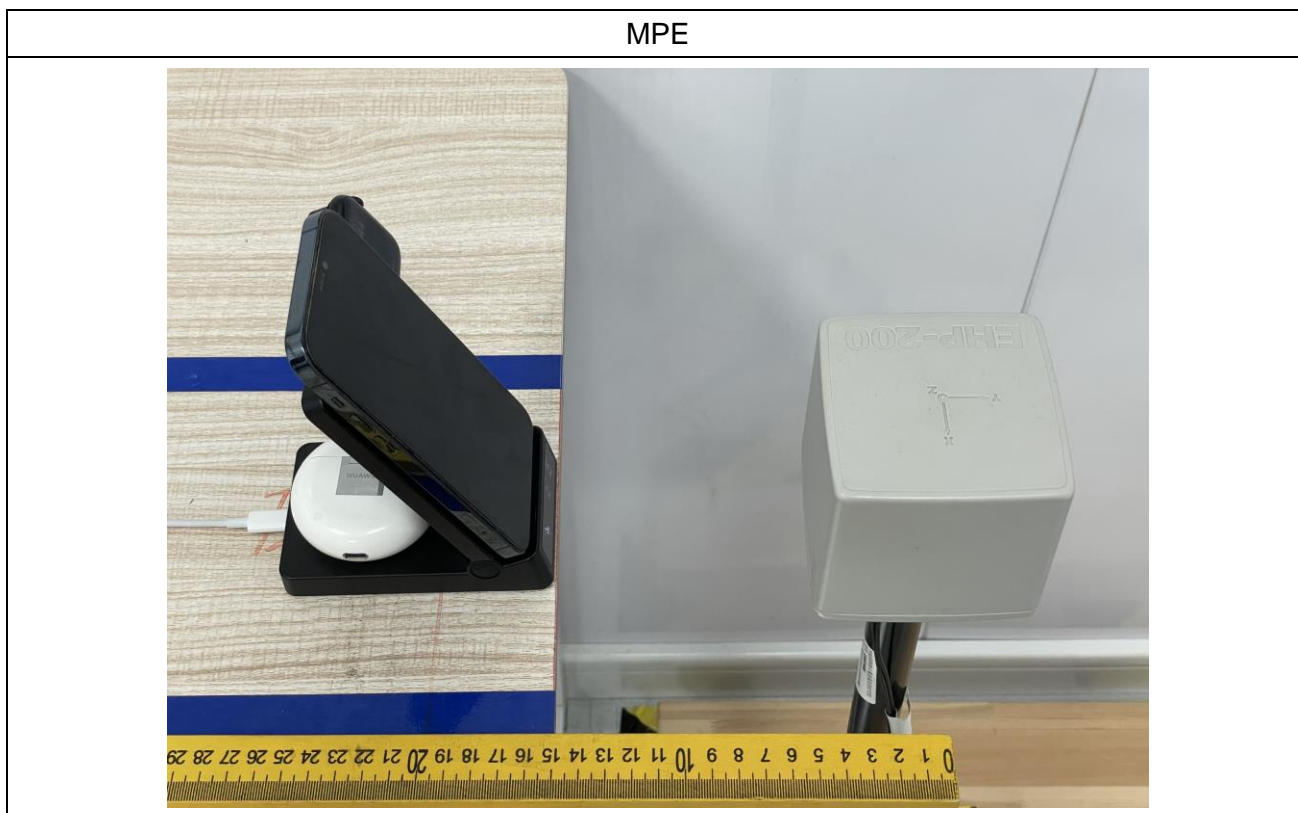
**4.1.4. Test Result**

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<1%	Top	20	0.5859	0.0578
<1%	Left	15	3.4485	0.0536
<1%	Right	15	2.2032	0.0511
<1%	Front	15	4.8212	0.0653
<1%	Back	15	0.6516	0.0563
Limit			614	1.63
Margin Limit (%)			0.79%	4.01%

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<50%	Top	20	0.5854	0.0573
<50%	Left	15	3.4478	0.0532
<50%	Right	15	2.2026	0.0504
<50%	Front	15	4.8208	0.0645
<50%	Back	15	0.6512	0.0558
Limit			614	1.63
Margin Limit (%)			0.79%	3.96%

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E-field(V/m)	H-field(A/m)
<99%	Top	20	0.5848	0.0562
<99%	Left	15	3.4465	0.0525
<99%	Right	15	2.2020	0.0495
<99%	Front	15	4.8195	0.0636
<99%	Back	15	0.6506	0.0547
Limit			614	1.63
Margin Limit (%)			0.78%	3.90%

## 5 Photographs of the Test Setup



\*\*\*\*\* END OF REPORT \*\*\*\*\*