

### **FCC TEST REPORT**

**FCC ID: 2AVG9-STANDPOW** 

On Behalf of

Shenzhen Yostand Technology Co., Ltd.

Wireless Power Bank Stand

Model No.: StandPow TW10000, StandPow M10000, StandPow W10000, StandPow DM10000, StandPow DW10000, StandPow TM20000, StandPow TW20000, StandPow M20000, StandPow DW20000, StandPow DW20000

Prepared for : Shenzhen Yostand Technology Co., Ltd.

East, 10th Floor, Mingzhuo Building, Mingzhuoxing Industrial Zone,

Address : No.1 Industrial Area, Loucun Community, Gongming Street, Guangming

New District, Shenzhen

Prepared By : Shenzhen Alpha Product Testing Co., Ltd.

Address Building i, No.2, Lixin Road, Fuyong Street, Bao'an District,

518103, Shenzhen, Guangdong, China

Report Number : A2202059-C01-R03 Date of Receipt : February 17, 2022

Date of Test : February 17, 2022–March 24, 2022

Date of Report : March 24, 2022

Version Number : V0

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#### TEST REPORT DECLARATION

: Shenzhen Yostand Technology Co., Ltd. Applicant

East, 10th Floor, Mingzhuo Building, Mingzhuoxing Industrial Zone,

Address No.1 Industrial Area, Loucun Community, Gongming

Street, Guangming New District, Shenzhen

Manufacturer : Shenzhen Yostand Technology Co., Ltd.

East, 10th Floor, Mingzhuo Building, Mingzhuoxing Industrial Zone,

Address : No.1 Industrial Area, Loucun Community, Gongming

Street, Guangming New District, Shenzhen

: Wireless Power Bank Stand **EUT Description** 

> StandPow TW10000, StandPow M10000, StandPow W10000, StandPow DM10000, StandPow DW10000,

(A) Model No. StandPow TM20000, StandPow TW20000,

StandPow M20000, StandPow W20000, StandPow

DM20000, StandPow DW20000

Trademark: YOSTAND (B)

Measurement Standard Used:

FCC CFR Title 47 Part 15 Subpart C

FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness test. Also, this report shows that the EUT is technically compliant with the KDB 680106 D01 requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Yannis Wen Tested by (name + signature).....

Project Engineer

Simple Guan

Date of issue..... March 24, 2022

Approved by (name + signature).....:

**Project Manager** 

# **Revision History**

Revision	Issue Date	Revisions	Revised By
V0	March 24, 2022	Initial released Issue	Yannis Wen

# 1. Test Result Summary

Requirement	CFR 47 Section	Result
RF EXPOSURE	§1.1307(b)(1) & KDB680106	PASS

#### Note:

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.

### 2. EUT Description

#### 2.1. Description of Device (EUT)

EUT Name : Wireless Power Bank Stand

Model No. : StandPow TW10000, StandPow M10000, StandPow W10000,

StandPow DM10000, StandPow DW10000, StandPow TM20000, StandPow TW20000, StandPow M20000, StandPow DM20000, StandPow DM20000, StandPow DM20000, StandPow

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DW20000

DIFF. : N/A

Trademark : YOSTAND

Power supply : Type C Input : 5V/2.6A, 9V/2A, 12V/1.5A

Type C Output: 5V/3A, 9V/2.22A, 12V/1.67A Micro USB Input: 5V/2A, 9V/2A, 12V/1.5A USB-A Output:5V/3A, 9V/2A, 12V/1.5A Wireless Output(Mobile):5W, 7.5W, 10W, 15W

Airpods Output:5W(Max) iWatch Output:3W(Max) Simultaneous output:5V/3A

Operation frequency : 120~205KHz

Modulation : MSK

Antenna Type : Coil Antenna, Maximum Gain is 0dBi (This value is supplied

by applicant).

Software version : V1.0

Hardware version : V1.0

Intend use environment

Residential, commercial and light industrial environment

The EUT does comply with section 5 b) of KDB 680106 D01 RF Exposure Wireless charging App V03r01.

Conditions requirement	Answers
Power transfer frequency is less than 1 MHz.	After measuring the product the transfer frequency is 0.120-0.205MHz
Output power from each primary coil is less than or equal to 15 watts.	After measuring the product the each primary coil power is 15 watts
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.	The transfer system include three primaries.
Client device is placed directly in contact with the transmitter.	Client device is placed directly in contact with the transmitter.
Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Mobile exposure conditions only.
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.	After measuring the product the Max H-field Strength is 0.807A/m Far less than 50% of the MPE limit.

#### 2.2. Accessories of Device (EUT)

Accessories1 : Cable

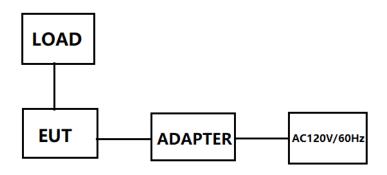
Manufacturer : Shenzhen Yostand Technology Co., Ltd.

Model : /
Ratings : /

### 2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Model Serial Number	
1	Wireless load				
2	Adapter		HNFCQC3024UU		

#### 2.4. Block Diagram of Connection between EUT and Simulators



### 2.5. Description of Test Modes

Channel	Frequency (KHz)
1	127
2	139

#### 2.6. Test Conditions

Items	Required	Actual
Temperature range:	15-35℃	<b>24</b> ℃
Humidity range:	25-75%	56%
Pressure range:	86-106kPa	98kPa

### 2.7. Test Facility

Shenzhen Alpha Product Testing Co., Ltd Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission

Registration Number: 293961

July 15, 2019 Certificated by IC Registration Number: CN0085

#### 2.8. Measurement Uncertainty

(95% confidence levels, k=2)

Item	Uncertainty
Uncertainty for H-Field	2.39dB
Uncertainty for E-Field	2.45dB
Uncertainty for conducted RF Power	0.65dB
Uncertainty for temperature	0.2℃
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%

# 3. Test Results and Measurement Data

### 3.1. RF Exposure Test

### 3.1.1. Test Specification

Test Requirement:	FCC Rules and Regulations KDB680106		
Test Method:	§1.1307(b)(1) & KDB680106		
Limits:	According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. According to §1.1310 and §2.1093 RF exposure is calculated. According KDB680106 D01v03r01: RF Exposure Wireless Charging.		
Test Setup:	B E-Field & B-Field Probe		
Test Mode:	Wireless charging load has been charge at no load, middle load and full load. All test modes were pre-tested, but we only recorded the worse case in this report.		
Test Procedure:	<ol> <li>The RF exposure test was performed in shielded chamber</li> <li>The measurement probe was placed at test distance(15cm) which is between the edge of the charger and the geometric centre of probe.</li> <li>The measurement probe used to search of highest strength.</li> <li>The highest emission level was recorded and compared with limit as soon as measurement of each points (A,B,C,D,E,F) were completed.</li> <li>The EUT were measured according to the dictates of KDB 680106 DR03-44118.</li> </ol>		
Test Result:	PASS		

#### 3.1.2. Test Instruments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Exposure Level Tester	narda	ELT-400	N-0231	2021.08.31	1 Year
2	Magnetic field probe 100cm2	narda	ELT probe 100cm2	M0675	2021.08.31	1 Year
3	Isotropic Electric Field Probe	narda	EP-601	511WX607 06	2021.08.31	1 Year

### 3.1.3. Test data

For Full load mode:

H-Filed Strength

11-1 lied Strength						
Operation	Test Distance	Test	Probe Measure	50% Limit		
frequency	(cm)	Position	Result	(A/m)		
			(A/m)			
		Α	0.815	0.815		
		В	0.760	0.815		
120K-205K	0	С	0.789	0.815		
		D	0.743	0.815		
		Ш	0.740	0.815		
		F	0.770	0.815		

Operation	Test	Test	Probe M	Probe Measure Result(A/m)		
frequency	Distance	Position	10%	50%	90%	Limit
	(cm)		Charge	Charge	Charge	(A/m)
		Α	0.782	0.748	0.769	0.815
		В	0.801	0.694	0.723	0.815
120K-205K	0	С	0.695	0.787	0.784	0.815
		D	0.727	0.644	0.662	0.815
		E	0.686	0.802	0.715	0.815
		F	0.712	0.769	0.714	0.815

0.762

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0.815

F

Operation	Test	Test Probe Measure Result(A/m)			50%	
frequency	Distance	Position	10%	50%	90%	Limit
	(cm)		Charge	Charge	Charge	(A/m)
		Α	0.764	0.753	0.770	0.815
		В	0.802	0.676	0.714	0.815
120K-205K	2	С	0.696	0.782	0.790	0.815
		D	0.709	0.653	0.652	0.815
		E	0.678	0.786	0.720	0.815
		F	0.701	0.762	0.696	0.815

Operation	Test Distance	Test	Probe Measure	50% Limit
frequency	(cm)	Position	Result	(A/m)
			(A/m)	
		Α	0.793	0.815
		В	0.807	0.815
120K-205K	4	С	0.812	0.815
		D	0.681	0.815
		Е	0.788	0.815
		F	0.716	0.815

Operation	Test	Test	Probe M	leasure Res	sult(A/m)	50%
frequency	Distance	Position	10%	50%	90%	Limit
	(cm)		Charge	Charge	Charge	(A/m)
		Α	0.753	0.734	0.772	0.815
		В	0.811	0.686	0.695	0.815
120K-205K	4	С	0.697	0.787	0.789	0.815
		D	0.702	0.657	0.646	0.815
		E	0.662	0.768	0.705	0.815
		F	0.711	0.764	0.683	0.815

Operation	Test	Test Probe Measure Result(A/m)			50%	
frequency	Distance	Position	10%	50%	90%	Limit
	(cm)		Charge	Charge	Charge	(A/m)
		Α	0.757	0.716	0.761	0.815
		В	0.800	0.679	0.687	0.815
120K-205K	6	С	0.682	0.776	0.783	0.815
		D	0.691	0.655	0.638	0.815
		E	0.652	0.772	0.697	0.815
		F	0.697	0.761	0.690	0.815

Operation	Test Distance	Test	Probe Measure	50% Limit
frequency	(cm)	Position	Result	(A/m)
			(A/m)	
		Α	0.657	0.815
		В	0.770	0.815
120K-205K	8	С	0.715	0.815
		D	0.624	0.815
		E	0.732	0.815
		F	0.578	0.815

Operation	Test	Test	Probe M	leasure Res	sult(A/m)	50%
frequency	Distance	Position	10%	50%	90%	Limit
	(cm)		Charge	Charge	Charge	(A/m)
		Α	0.745	0.697	0.749	0.815
		В	0.783	0.684	0.695	0.815
120K-205K	8	С	0.679	0.777	0.791	0.815
		D	0.674	0.650	0.626	0.815
		E	0.640	0.770	0.694	0.815
		F	0.701	0.770	0.693	0.815

0.579

0.759

0.637

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0.815 0.815

0.815

D

Ε

F

Operation	Test	Test	Probe M	Probe Measure Result(A/m)		
frequency	Distance	Position	10%	50%	90%	Limit
	(cm)		Charge	Charge	Charge	(A/m)
		Α	0.739	0.678	0.736	0.815
		В	0.768	0.665	0.690	0.815
120K-205K	10	С	0.677	0.760	0.773	0.815
		D	0.683	0.643	0.632	0.815
		E	0.642	0.777	0.690	0.815
		F	0.701	0.765	0.684	0.815

Operation	Test Distance	Test	Probe Measure	50% Limit
frequency	(cm)	Position	Result	(A/m)
			(A/m)	
		Α	0.648	0.815
		В	0.565	0.815
120K-205K	15	С	0.605	0.815
		D	0.576	0.815
		E	0.558	0.815
		F	0.645	0.815

Operation	Test	Test	Probe M	leasure Res	sult(A/m)	50%
frequency	Distance	Position	10%	50%	90%	Limit
	(cm)		Charge	Charge	Charge	(A/m)
		Α	0.657	0.635	0.657	0.815
		В	0.558	0.571	0.570	0.815
120K-205K	15	С	0.605	0.603	0.590	0.815
		D	0.559	0.562	0.582	0.815
		E	0.564	0.545	0.539	0.815
		F	0.637	0.628	0.654	0.815

#### For No load mode:

#### H-Filed Strength

· · · · · · · · · · · · · · · · · · ·								
Operation	Test Distance	Test	Probe Measure	50% Limit				
frequency	(cm)	Position	Result	(A/m)				
			(A/m)					
		Α	0.806	0.815				
		В	0.734	0.815				
120K-205K	0	С	0.783	0.815				
		D	0.789	0.815				
		E	0.706	0.815				
		F	0.741	0.815				

Operation	Test	Test	Probe Measure Result(A/m)			50%
frequency	Distance	Position	10%	50%	90%	Limit
	(cm)		Charge	Charge	Charge	(A/m)
		Α	0.801	0.787	0.802	0.815
		В	0.715	0.729	0.731	0.815
120K-205K	0	С	0.772	0.787	0.770	0.815
		D	0.769	0.777	0.777	0.815
		E	0.713	0.711	0.709	0.815
		F	0.744	0.725	0.743	0.815

Operation	Test Distance	Test	Probe Measure	50% Limit
frequency	(cm)	Position	Result	(A/m)
			(A/m)	
		Α	0.757	0.815
		В	0.696	0.815
120K-205K	2	С	0.766	0.815
		D	0.786	0.815
		E	0.639	0.815
		F	0.738	0.815

Operation	Test	Test	Probe M	Probe Measure Result(A/m)		
frequency	Distance	Position	10%	50%	90%	Limit
	(cm)		Charge	Charge	Charge	(A/m)
		Α	0.795	0.794	0.794	0.815
		В	0.697	0.730	0.739	0.815
120K-205K	2	С	0.774	0.778	0.751	0.815
		D	0.775	0.778	0.758	0.815
		E	0.704	0.700	0.717	0.815
		F	0.751	0.735	0.742	0.815

Operation	Test Distance	Test	Probe Measure	50% Limit
frequency	(cm)	Position	Result	(A/m)
			(A/m)	
		Α	0.674	0.815
		В	0.752	0.815
120K-205K	4	C	0.780	0.815
		D	0.736	0.815
		Ш	0.593	0.815
		F	0.753	0.815

Operation	Test	Test	Probe M	Probe Measure Result(A/m)		
frequency	Distance	Position	10%	50%	90%	Limit
	(cm)		Charge	Charge	Charge	(A/m)
		Α	0.792	0.777	0.785	0.815
		В	0.680	0.712	0.742	0.815
120K-205K	4	С	0.769	0.770	0.744	0.815
		D	0.781	0.782	0.760	0.815
		E	0.693	0.692	0.710	0.815
		F	0.732	0.723	0.739	0.815

Operation	Test Distance	Test	Probe Measure	50% Limit
frequency	(cm)	Position	Result	(A/m)
			(A/m)	
		Α	0.736	0.815
		В	0.760	0.815
120K-205K	6	С	0.682	0.815
		D	0.735	0.815
		Е	0.668	0.815
		F	0.725	0.815

Operation	Test	Test	Probe M	Probe Measure Result(A/m)		
frequency	Distance	Position	10%	50%	90%	Limit
	(cm)		Charge	Charge	Charge	(A/m)
		Α	0.777	0.765	0.794	0.815
		В	0.665	0.713	0.742	0.815
120K-205K	6	С	0.764	0.765	0.742	0.815
		D	0.765	0.788	0.764	0.815
		E	0.692	0.684	0.698	0.815
		F	0.721	0.707	0.746	0.815

Operation	Test Distance	Test	Probe Measure	50% Limit
frequency	(cm)	Position	Result	(A/m)
			(A/m)	
		Α	0.785	0.815
		В	0.814	0.815
120K-205K	8	С	0.589	0.815
		D	0.740	0.815
		Е	0.732	0.815
		F	0.682	0.815

Operation	Test	Test	Test Probe Measure Result(A/m)			50%
frequency	Distance	Position	10%	50%	90%	Limit
	(cm)		Charge	Charge	Charge	(A/m)
		Α	0.763	0.759	0.796	0.815
		В	0.649	0.694	0.732	0.815
120K-205K	8	С	0.771	0.747	0.724	0.815
		D	0.750	0.777	0.772	0.815
		Е	0.684	0.685	0.686	0.815
		F	0.716	0.689	0.730	0.815

Operation	Test Distance	Test	Probe Measure	50% Limit
frequency	(cm)	Position	Result	(A/m)
			(A/m)	
		Α	0.769	0.815
		В	0.760	0.815
120K-205K	10	C	0.650	0.815
		D	0.780	0.815
		Ш	0.646	0.815
		F	0.738	0.815

Operation	Test	Test	Probe M	Probe Measure Result(A/m)		
frequency	Distance	Position	10%	50%	90%	Limit
	(cm)		Charge	Charge	Charge	(A/m)
		Α	0.751	0.753	0.796	0.815
		В	0.637	0.691	0.720	0.815
120K-205K	10	С	0.774	0.743	0.717	0.815
		D	0.749	0.758	0.780	0.815
		E	0.675	0.688	0.684	0.815
		F	0.698	0.679	0.739	0.815

Operation	Test Distance	Test	Probe Measure	50% Limit
frequency	(cm)	Position	Result	(A/m)
			(A/m)	
		Α	0.772	0.815
		В	0.690	0.815
120K-205K	15	C	0.632	0.815
		D	0.772	0.815
		Ш	0.648	0.815
		F	0.810	0.815

Operation	Test	Test	Probe M	Probe Measure Result(A/m)		
frequency	Distance	Position	10%	50%	90%	Limit
	(cm)		Charge	Charge	Charge	(A/m)
		Α	0.741	0.759	0.789	0.815
		В	0.639	0.681	0.704	0.815
120K-205K	15	С	0.757	0.749	0.726	0.815
		D	0.736	0.748	0.777	0.815
		E	0.663	0.669	0.669	0.815
		F	0.705	0.666	0.745	0.815

# 4. Photos of test setup

For Full load mode



0cm A Position

For No load mode



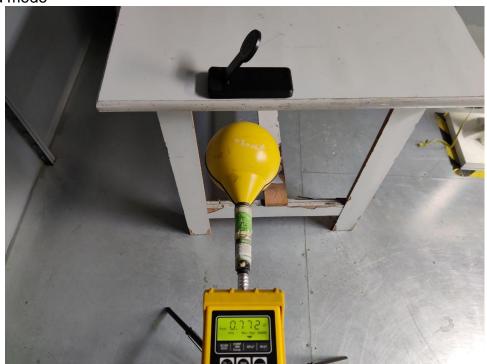
0cm A Position

### For Full load mode



15cm A Position

### For No load mode



15cm A Position

# 5. Photographs of EUT

Refer to test report A2202059-C01-R02.

-----End of Report-----