Microtest
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Test Report

Report No.:	MTi220226006-01E2
Date of issue:	2022-05-06
Applicant:	Shenzhen Baseus Technology Co., Ltd.
Product:	Bracket Wireless Fast Charge Power Bank
Model(s):	PPCXZ10
FCC ID:	2A482-PPCXZ102022

Shenzhen Microtest Co., Ltd.

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Instructions

1. This test report shall not be partially reproduced without the written consent of the laboratory.

2. The test results in this test report are only responsible for the samples submitted

3. This test report is invalid without the seal and signature of the laboratory.

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.

Contents

Test Result Certification	
Applicant:	**Shenzhen Baseus Technology Co., Ltd.**
Address:	2th Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen
Manufacturer:	**Shenzhen Baseus Technology Co., Ltd.**
Address:	2th Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen
Product description	
Product name:	Bracket Wireless Fast Charge Power Bank
Trademark:	Baseus
Model name:	PPCXZ10
Serial Model:	N/A
Standards:	FCC CFR 47 PART 1, § 1.1310
Test method:	KDB 680106 v03r01
Date of Test	
Date of test:	2022-03-03 ~ 2022-03-18
Test result:	Pass

Test Engineer : Danny Xu

(Danny Xu)

Reviewed By: : Leon Chen

(Leon Chen)

Approved By: : Tom Xue

(Tom Xue)

1 General Description

1.1 Description of the EUT

Product name:	Bracket Wireless Fast Charge Power Bank
Model name:	PPCXZ10
Series Model:	N/A
Model difference:	N/A
Electrical rating:	Type-C input: DC 5V/3A, 9V/2A Type-C output: DC 5V/3A, 9V/2.22A, 12V/1.5A Wireless output: 5W/7.5W/10W/15W Total output: DC 5V/3A Battery capacity: 1000mAh 3.85V 38.5W, Rated capacity: 5800mAh
Accessories:	N/A
RF specification:	
Operation frequency:	115 kHz – 205 kHz
Modulation type:	ASK
Antenna type:	Coil Antenna

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
Mode 1	Wireless charger (5W)
Mode 2	Wireless charger (7.5W)
Mode 3	Wireless charger (10W)
Mode 4	Wireless charger (15W)
Mode 5	Stand-by
The test data only show worst test mode: Mode 4	

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
Smart phone	IN2020	/	OnePlus
Smart phone	A2404	F17DLCK70DYN	Apple
Smart phone	SM-G9650/DS	R28K34V79NT	Samsung
Adapter	HW-090200CH0	/	Huizhou BYD Electronics Co., Ltd.
Support cable list			
Description	Length (m)	From	To
USB-C to USB-C cable	1.2	Adapter	EUT

2 Test facilities and accreditations

2.1 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

3 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
MTI-E115	Electric and Magnetic Field Probe – Analyzer	Narda	EHP-200A	101166	2021/06/02	2022/06/01

4 Test result

4.1.1 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/cm^2)	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	*($900/f^2$)	<6
30-300	61.4	0.163	1.0	<6
300-1500			f/300	<6
1500-100000			5	<6
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*($180/f^2$)	<30
30-300	27.5	0.073	0.2	<30
300-1500			f/1500	<30
1500-100000			1.0	<30

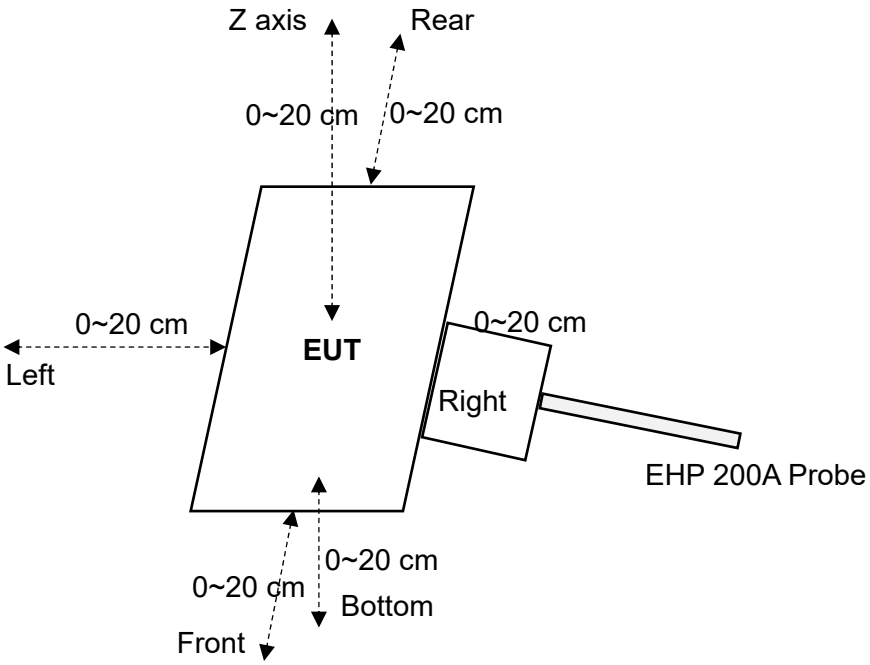
f = frequency in MHz
* = Plane-wave equivalent power density

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.

4.2 Test setup

For portable exposure conditions:



4.3 Test Procedures

a. The RF exposure test was performed in anechoic chamber.

b. E and H-field measurements should be made with the probe at 0~20 cm for all side of the EUT.

c. The highest emission level was recorded and compared with limit.

4.4 Equipment Approval Considerations item 5 b) of KDB 680106 D01 v03r01

Requirement	Device
1. Power transfer frequency is less than 1 MHz.	Yes. The operating frequencies are: 115 kHz – 205 kHz
2. Output power from each primary coil is less than or equal to 15 watts	Yes. The maximum output power is: 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.	Yes. The EUT has one source primary coils.
4. Client device is placed directly in contact with the transmitter.	Yes. The client device is placed directly in contact with the transmitter.
5. Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	No. The EUT can used as portable exposure conditions.
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.	No. the measurement was taken based on the KDB inquiry. See the test result in item 4.5.

4.5 Test results

For portable exposure condition:

Note: operating modes with client device (1 %, 50%, 99% battery status of client device) have been test, only show the data of worst case of 1% battery status of client device.

Test condition 1: Mode 4 operating mode with client device (1 % battery status of client device) -test distance: 0cm

Antenna	Probe Position	H–field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.8723	1.63	80.53%
	Left	0.3257		
	Right	1.2804		
	Front	0.1285		
	Rear	0.2679		
	Bottom	0.4126		

Test condition 2: Mode 4 operating mode with client device (1 % battery status of client device) -test distance: 2cm

Antenna	Probe Position	H–field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.2849	1.63	45.85%
	Left	0.1336		
	Right	0.7474		
	Front	0.0932		
	Rear	0.1353		
	Bottom	0.352		

Test condition 3: Mode 4 operating mode with client device (1 % battery status of client device) - Test distance 4cm

Antenna	Probe Position	H–field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.1761	1.63	30.60%
	Left	0.0908		
	Right	0.4987		
	Front	0.0594		
	Rear	0.0871		
	Bottom	0.276		

Test condition 4: Mode 4 operating mode with client device (1 % battery status of client device) - Test distance 6cm

Antenna	Probe Position	H–field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.0884	1.63	11.06%
	Left	0.0503		
	Right	0.0987		
	Front	0.057		
	Rear	0.0604		
	Bottom	0.1802		

Test condition 5: Mode 4 operating mode with client device (1 % battery status of client device) - Test distance 8cm

Antenna	Probe Position	H–field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.0604	1.63	6.97%
	Left	0.0595		
	Right	0.0907		
	Front	0.0521		
	Rear	0.0524		
	Bottom	0.1136		

Test condition 6: Mode 4 operating mode with client device (1 % battery status of client device) - Test distance 10cm

Antenna	Probe Position	H–field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.0513	1.63	4.44%
	Left	0.0523		
	Right	0.0577		
	Front	0.0546		
	Rear	0.0523		
	Bottom	0.0723		

Test condition 7: Mode 4 operating mode with client device (1 % battery status of client device) - Test distance 12cm

Antenna	Probe Position	H–field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.0468	1.63	3.15%
	Left	0.0459		
	Right	0.0447		
	Front	0.0461		
	Rear	0.0485		
	Bottom	0.0513		

Test condition 8: Mode 4 operating mode with client device (1 % battery status of client device) - Test distance 14cm

Antenna	Probe Position	H–field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.0386	1.63	2.51%
	Left	0.0375		
	Right	0.0368		
	Front	0.0409		
	Rear	0.0391		
	Bottom	0.0377		

Test condition 9: Mode 4 operating mode with client device (1 % battery status of client device) - Test distance 16cm

Antenna	Probe Position	H–field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.0351	1.63	2.30%
	Left	0.0346		
	Right	0.0339		
	Front	0.0375		
	Rear	0.0328		
	Bottom	0.0334		

Test condition 10: Mode 4 operating mode with client device (1 % battery status of client device) - Test distance 18cm

Antenna	Probe Position	H–field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.0349	1.63	2.14%
	Left	0.0335		
	Right	0.0336		
	Front	0.0328		
	Rear	0.0307		
	Bottom	0.0315		

Test condition 11: Mode 4 operating mode with client device (1 % battery status of client device) - Test distance 20cm

Antenna	Probe Position	H–field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.0322	1.63	2.09%
	Left	0.0318		
	Right	0.0308		
	Front	0.0325		
	Rear	0.0336		
	Bottom	0.0341		

Photographs of the Test Setup

See the Appendix - Test Setup Photos.

Photographs of the EUT

See the Appendix - EUT Photos.

----End of Report----