

TXS Industrial Design, Inc. dba Brandstand Products

TEST REPORT

SCOPE OF WORK

EMC TESTING—BPEDO2

REPORT NUMBER

250310263GZU-002

ISSUE DATE

09-April-2026

[REVISED DATE]

[-----]

PAGES

8

DOCUMENT CONTROL NUMBER

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TEST REPORT

Applicant Name & : TXS Industrial Design, Inc. dba Brandstand Products
Address : 1219 Digital Dr. Suite 100, Richardson, Texas, 75081, United States
Manufacturing Site : Shenzhen Huntkey Electronics Co., Ltd
Huntkey Industrial Park, Xue-Xiang Village, Banxue Road,
Bantian, SHENZHEN Guangdong 518129 China
Intertek Report No: 250310263GZU-002
FCC ID: 2AFT4-BPEDO2

Test standards

47 CFR PART 1, Subpart I, Section 1.1310
KDB 680106 D01 RF Exposure Wireless Charging App v03r01

Sample Description

Product : Cubietrio
Model No. : BPEDO2
Electrical Rating : 125VAC, 1.0A, 60Hz
SINGLE USB-C1/C2 OUTPUT(20W MAX): 5V= 3A or 9V= 2.22A or
12V= 1.67A
DOUBLE PORT USB-C1+USB-C2 OUTPUT(15W MAX): 5V= 3A
WIRELESS OUTPUT: UP TO 15W
Serial No. : Not Labeled
Date Received : 10 March 2025
Date Test : 29 March 2025
Conducted

Prepared and Checked By



Elena Lei

Project Engineer

Approved By:



Dean Liu

Sr. Project Engineer

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1.0 TEST RESULT SUMMARY

Classification of EUT: Class B

Test Item	Standard	Result
EMF	47 CFR PART 1, Subpart I, Section 1.1310	PASS

Remark:

When determining the test results, measurement uncertainty of tests has been considered.

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2.0 General Description

2.1 Product Description

Operating Frequency	127KHz,357KHz
Type of Modulation:	MSK modulation
Antenna Type	Inductive loop coil antenna
Power Supply:	120VAC, 60Hz
Power cord:	N/A

2.2 Test Facility

Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China

A2LA Certificate Number 0078.10

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch is accredited by A2LA and Listed in FCC website. FCC accredited test labs may perform both Certification testing under Parts 15 and 18 and Declaration of Conformity testing.

2.3 EUT Exercising Software

Once it's powered, it keeps transmitting.

2.4 Special Accessories

N/A

2.5 Equipment Modification

Any modifications installed previous to testing by TXS Industrial Design, Inc. dba Brandstand Products will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Guangzhou Branch.

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2.6 Support Equipment List and Description

This product was tested with corresponding support equipment as below:

Support equipment

Description	Model No.	Rating	Supplied by
Wireless charging load	F18/19	15W	applicant

Remark: Wireless charging load was the client devices, it's selected such that the EUT was fully exercised at maximum power from its transmitter.

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above evaluated respectively

Pre-test mode	Description	
Standby Mode	kept transmitting continuously	
Charging Mode	CH: Low	Wireless charging load is charging at 1% battery power, 50% and 99% battery power respectively, keep transmitting continuously.
	CH: Middle	
	CH: High	

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3.0 EMF TEST

3.1 Standard Requirement

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 limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.1m normally can be maintained between the user and the device.

(a) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S)(mW/cm ²)	Averaging Times E ² , H ² 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	--	--	F/300	6
1500-100000	--	--	5	6

(b) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S)(mW/cm ²)	Averaging Times 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	--	--	F/1500	30
1500-100000	--	--	1.0	30

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

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3.2 Test Data

Input Voltage: 120V/60Hz
Ambient Condition: 22.1°C, 54.6%RH

Test distance: 20 cm.
The report only retains the worst data at 357KHz.

H-Filed Strength:

Test Position	Probe Measure Result (A/m)			50% Limit (A/m)	Limit (A/m)
	Mobile in 1% battery power	Mobile in 50% battery power	Mobile in 99% battery power		
Side 1	0.062	0.065	0.068	0.815	1.63
Side 2	0.077	0.078	0.079	0.815	1.63
Side 3	0.074	0.075	0.082	0.815	1.63
Side 4	0.075	0.073	0.078	0.815	1.63
Top	0.076	0.062	0.072	0.815	1.63

MPE ratio:
 $0.082 \text{ (A/m)} / 0.815 \text{ (A/m)} = 0.1006$

4.0 Test Equipment List

Equip. No.	Equipment	Model	Manufacturer	Cal. date	Due date
EM007-03	Exposure Level Tester	ELT-400	NARDA	5/03/2025	4/03/2026

*****End of the test report*****