TEST REPORT

Report No.:	BCTC2304408542-1E
Applicant:	Scosche Industries Inc.
Product Name:	Power bank
Model/Type Ref.:	PBQ5MS2
Tested Date:	2023-04-23 to 2023-05-08
Issued Date:	2023-05-10

Shenzhen BCTC Testing Co., Ltd.

FCC ID: IKQPBQ5MS2

Product Name:	Power bank
Trademark:	Scosche
Model/Type Ref.:	PBQ5MS2, PBQ5MS2WT
Prepared For:	Scosche Industries Inc.
Address:	1550 Pacific Ave. Oxnard CA 93033 USA
Manufacturer:	Scosche Industries Inc.
Address:	1550 Pacific Ave. Oxnard CA 93033 USA
Prepared By:	Shenzhen BCTC Testing Co., Ltd.
Address:	1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date:	2023-04-23
Sample tested Date:	2023-04-23 to 2023-05-08
Report No.:	BCTC2304408542-1E
Test Standards:	FCC CFR 47 part1, 1.1307(b), 1.1310
Test Results:	PASS

Tested by:

Brave Zeng/ Project Handler

Approved by:

Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

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1. Version

Report No.	Issue Date	Description	Approved
BCTC2304408542-1E	2023-05-10	Original	Valid

2. Product Information

2.1 Product Information

Model/Type reference:	PBQ5MS2, PBQ5MS2
Model differences:	Our production units bearing the following model numbers are identical in circuitry and electrical, mechanical and physical construction; The difference is only in model names.
Modulation:	ASK
Operation Frequency:	112-205KHz
Antenna installation:	Loop coil antenna
Ratings:	Input(Power Bank) ： 5V/2A Input /Output: 5V/2A Wireless：5W/7.5W/10W
Adapter：	Input：AC100-240V,50/60Hz Output: 5V/2A

2.2 Support Equipment

No.	Cable Type	Quantity	Provider	Length (m)	Shielded	Note
1	Dummy load	N/A	DL01	N/A	Auxiliary	Dummy load
2	Adapter	N/A	DL02	N/A	Auxiliary	Dummy load

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

2.3 Test Mode

Test Modes 1	No-load mode
Test Modes 2	Half-load mode
Test Modes 3	Full load mode

N/A: The wireless charge did not work while the sample was being charged

2.4 Test Setup Configuration

See test photographs attached in EUT TEST SETUP Photographs for the actual connections between Product and support equipment.

4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Dummy load	N/A	DL01	N/A	Auxiliary
E-4	Power bank	N/A	QIC37	N/A	EUT
E-5	Adapter	N/A	N/A	N/A	Auxiliary

Notes:
1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

3. Test Facility and Test Instrument Used

3.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address:1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.
FCC Test Firm Registration Number: 712850
IC Registered No.: 23583

3.2 Test Instrument Used

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Electromagnet-ic radiation tester	Wavecontrol	SMP160	19SN0980	May 16, 2022	May 15, 2023
Electromagne-tic field probe	Wavecontrol	WP400-3	20WP120082	Sept. 08, 2022	Sept. 07, 2023
843 Chamber	ETS	843	84301	Aug. 27, 2020	Aug. 26, 2023

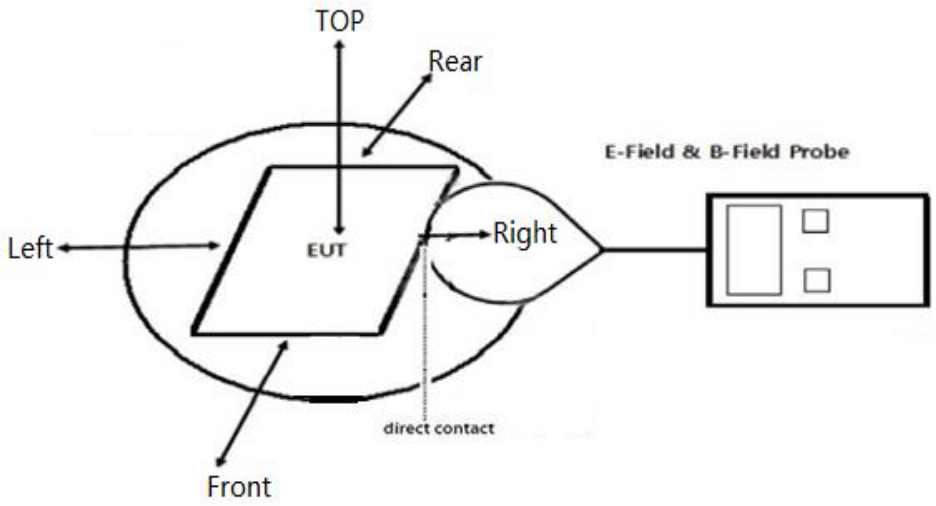
4. Method Of Measurement

4.1 Applicable Standard

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 and §2.1091 RF exposure is calculated. According KDB 680106 D01 RF Exposure Wireless Charging.

4.2 Block Diagram Of Test Setup

A:



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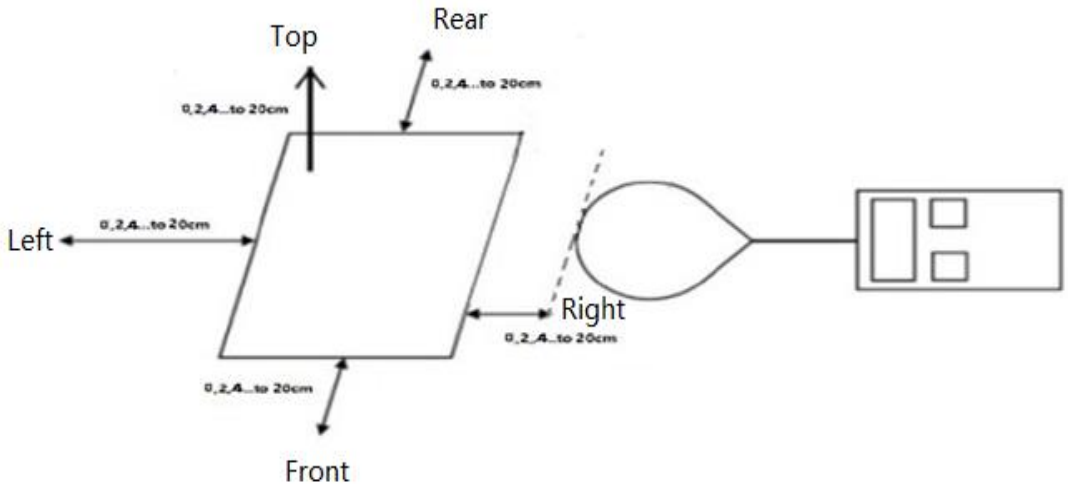


4.3 Limit

Limits for Occupational / Controlled 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)
0.3-3.0	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
1500-100,000			5	6

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/ 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			F/1500	30
1500-100,000			1	30

4.4 Test Procedure

1) RF exposure test was performed in anechoic chamber.
2) The measurement probe was placed at 0 cm surrounding the device for test setup A; and the measurement Probe was placed from 0 cm to 20 cm, in 2 cm maximum increment measured from the edge of the device For the test setup B.
3) The highest emission level was recorded and compared with limit as soon as measurement of eachd) The highest emission level was recorded and compared with limit as soon as measurement of each points (left, right, front, rear and top) were completed.
4) The EUT was measured according to the dictates of KDB680106 D01
5) Remark:

The EUT's test position left, right, front, rear and top is valid for the E and H field measurements.

4.5 The EUT does comply with item 5(b) of KDB 680106 D01v03

1) Power transfer frequency is less than 1MHz

   Yes, the device operate in the frequency range from 112- 205khz

2) Output power from each primary coil is less than or equal to 15 watts.

   Yes, the maximum output power of the primary coil is 10W.

3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that able to detect and allow coupling onlybetween individual pair of coils.

   Yes, the product is composed of one primary coils,

4) Client device is inserted in or placed directly in contact with the transmitter.

   Yes, 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 product is portable

6) 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.

   Yes, the EUT field strength levels are 10% x MPE limit.

4.6 E And H Field Strength

For setup A:

H-Filed Strength at 0 cm from edges surrounding the EUT (uT)

Frequency Range (KHz)	Operation condition	Test Position Front (uT)	Test Position Rear (uT)	Test Position Left (uT)	Test Position Right (uT)	Test Position Top **(uT)**
112-205KHz	Full load	1.104	1.118	1.079	1.079	1.080
112-205KHz	Half load	0.873	0.789	0.776	0.771	0.765
112-205KHz	No load	0.655	0.818	0.676	0.726	1.063

Note:A/m=uT÷1.25

H-Filed Strength at 0 cm from edges surrounding the EUT (A/m)

Frequency Range (KHz)	Operation condition	Test Position Front (A/m)	Test Position Rear (A/m)	Test Position Left (A/m)	Test Position Right (A/m)	Test Position Top (A/m)	Limits (A/m)
112-205KHz	Full load	0.883	0.894	0.863	0.863	0.864	1.63
112-205KHz	Half load	0.698	0.631	0.621	0.617	0.612	1.63
112-205KHz	No load	0.524	0.654	0.541	0.581	0.850	1.63

E-Field Strength at 0 cm from edges surrounding the EUT (V/m)

Frequency Range (KHz)	Operation condition	Test Position Front (V/m)	Test Position Rear (V/m)	Test Position Left (V/m)	Test Position Right (V/m)	Test Position Top (V/m)	Limits (V/m)
112-205KHz	Full load	53.858	51.611	54.690	50.419	51.975	614
112-205KHz	Half load	46.356	48.024	45.292	47.778	47.019	614
112-205KHz	No load	25.025	25.312	29.021	29.482	27.415	614

For setup B:

Full Load

H-Filed Strength at (distance from 0cm to 20cm at 2cm iteration) surrounding the EUT (uT)

Test distance (cm)	Test Position Front (uT)	Test Position Rear(uT)	Test Position Left (uT)	Test Position Right (uT)	Test Position Top (uT)
0	1.104	1.118	1.079	1.079	1.080
2	1.004	1.030	1.016	1.016	1.018
4	0.870	0.893	0.848	0.804	0.796
6	0.918	0.919	0.961	0.955	0.931
8	0.724	0.746	0.704	0.711	0.649
10	0.780	0.799	0.830	0.816	0.810
12	0.620	0.633	0.710	0.664	0.704
14	0.696	0.705	0.649	0.709	0.649
16	0.518	0.506	0.585	0.614	0.619
18	0.621	0.629	0.709	0.549	0.620
20	0.320	0.333	0.369	0.274	0.356

Note:A/m=uT÷1.25

H-Filed Strength at (distance from 0cm to 20cm at 2cm iteration) surrounding the EUT (A/m)

Test distance (cm)	Test Position Front (A/m)	Test Position Rear(A/m)	Test Position Left (A/m)	Test Position Right (A/m)	Test Position Top (A/m)	Limits (A/m)
0	0.883	0.894	0.863	0.863	0.864	1.63
2	0.803	0.824	0.813	0.813	0.814	1.63
4	0.696	0.714	0.678	0.643	0.637	1.63
6	0.734	0.735	0.769	0.764	0.745	1.63
8	0.579	0.597	0.563	0.569	0.519	1.63
10	0.624	0.639	0.664	0.653	0.648	1.63
12	0.496	0.506	0.568	0.531	0.563	1.63
14	0.557	0.564	0.519	0.567	0.519	1.63
16	0.414	0.405	0.468	0.491	0.495	1.63
18	0.497	0.503	0.567	0.439	0.496	1.63
20	0.256	0.266	0.295	0.219	0.285	1.63

E-Field Strength at (distance from 0cm to 20cm at 2cm iteration) surrounding the EUT (V/m)

Test distance (cm)	Test Position Front (V/m)	Test Position Rear (V/m)	Test Position Left (V/m)	Test Position Right (V/m)	Test Position Top (V/m)	Limits (V/m)
0	53.858	51.611	54.690	50.419	51.975	614
2	30.779	32.512	31.774	31.812	30.301	614
4	19.453	20.138	19.578	20.551	22.534	614
6	19.142	18.695	18.381	17.594	15.309	614
8	13.277	13.728	13.583	13.178	12.419	614
10	11.650	10.549	10.895	9.936	10.254	614
12	9.651	9.058	7.567	8.385	7.092	614
14	5.992	6.635	6.261	7.803	6.989	614
16	4.532	4.252	3.359	5.269	5.725	614
18	4.007	4.691	3.863	3.621	3.758	614
20	1.816	2.538	2.766	2.975	2.396	614

Half Load

H-Filed Strength at (distance from 0cm to 20cm at 2cm iteration) surrounding the EUT (uT)

Test distance (cm)	Test Position Front (uT)	Test Position Rear(uT)	Test Position Left (uT)	Test Position Right (uT)	Test Position Top (uT)
0	0.873	0.789	0.776	0.771	0.765
2	0.830	0.778	0.769	0.759	0.758
4	0.740	0.716	0.751	0.653	0.671
6	0.676	0.705	0.733	0.701	0.735
8	0.555	0.519	0.533	0.561	0.544
10	0.504	0.518	0.509	0.500	0.604
12	0.451	0.430	0.479	0.480	0.396
14	0.383	0.415	0.418	0.403	0.376
16	0.298	0.271	0.253	0.308	0.263
18	0.230	0.225	0.246	0.235	0.215
20	0.193	0.199	0.235	0.193	0.196

Note:A/m=uT÷1.25

H-Filed Strength at (distance from 0cm to 20cm at 2cm iteration) surrounding the EUT (A/m)

Test distance (cm)	Test Position Front (A/m)	Test Position Rear(A/m)	Test Position Left (A/m)	Test Position Right (A/m)	Test Position Top (A/m)	Limits (A/m)
0	0.698	0.631	0.621	0.617	0.612	1.63
2	0.664	0.622	0.615	0.607	0.606	1.63
4	0.592	0.573	0.601	0.522	0.537	1.63
6	0.541	0.564	0.586	0.561	0.588	1.63
8	0.444	0.415	0.426	0.449	0.435	1.63
10	0.403	0.414	0.407	0.400	0.483	1.63
12	0.361	0.344	0.383	0.384	0.317	1.63
14	0.306	0.332	0.334	0.322	0.301	1.63
16	0.238	0.217	0.202	0.246	0.210	1.63
18	0.184	0.180	0.197	0.188	0.172	1.63
20	0.154	0.159	0.188	0.154	0.157	1.63

E-Field Strength at (distance from 0cm to 20cm at 2cm iteration) surrounding the EUT (V/m)

Test distance (cm)	Test Position Front (V/m)	Test Position Rear (V/m)	Test Position Left (V/m)	Test Position Right (V/m)	Test Position Top (V/m)	Limits (V/m)
0	35.357	36.078	32.287	27.788	37.019	614
2	18.477	17.295	18.761	19.657	19.096	614
4	8.494	11.234	9.721	10.614	9.208	614
6	13.215	13.172	17.199	17.129	8.159	614
8	8.881	9.545	8.775	8.784	5.638	614
10	7.452	6.706	5.653	7.375	5.772	614
12	5.808	4.197	5.455	5.249	4.624	614
14	3.695	3.587	3.077	3.170	2.930	614
16	2.449	2.316	2.869	2.297	1.965	614
18	1.504	1.732	1.337	1.705	1.637	614
20	0.935	0.922	0.889	0.784	0.989	614

NO-load

H-Filed Strength at (distance from 0cm to 20cm at 2cm iteration) surrounding the EUT (uT)

Test distance (cm)	Test Position Front (uT)	Test Position Rear(uT)	Test Position Left (uT)	Test Position Right (uT)	Test Position Top (uT)
0	0.655	0.818	0.676	0.726	1.063
2	0.634	0.759	0.638	0.663	0.714
4	0.619	0.729	0.635	0.629	0.663
6	0.598	0.590	0.586	0.620	0.609
8	0.550	0.524	0.560	0.523	0.515
10	0.464	0.445	0.453	0.486	0.483
12	0.394	0.563	0.408	0.424	0.385
14	0.331	0.324	0.329	0.374	0.335
16	0.303	0.276	0.254	0.293	0.296
18	0.155	0.155	0.158	0.144	0.143
20	0.115	0.125	0.123	0.096	0.116

Note:A/m=uT÷1.25

H-Filed Strength at (distance from 0cm to 20cm at 2cm iteration) surrounding the EUT (A/m)

Test distance (cm)	Test Position Front (A/m)	Test Position Rear(A/m)	Test Position Left (A/m)	Test Position Right (A/m)	Test Position Top (A/m)	Limits (A/m)
0	0.524	0.654	0.541	0.581	0.850	1.63
2	0.507	0.607	0.510	0.530	0.571	1.63
4	0.495	0.583	0.508	0.503	0.530	1.63
6	0.478	0.472	0.469	0.496	0.487	1.63
8	0.440	0.419	0.448	0.418	0.412	1.63
10	0.371	0.356	0.362	0.389	0.386	1.63
12	0.315	0.450	0.326	0.339	0.308	1.63
14	0.265	0.259	0.263	0.299	0.268	1.63
16	0.242	0.221	0.203	0.234	0.237	1.63
18	0.124	0.124	0.126	0.115	0.114	1.63
20	0.092	0.100	0.098	0.077	0.093	1.63

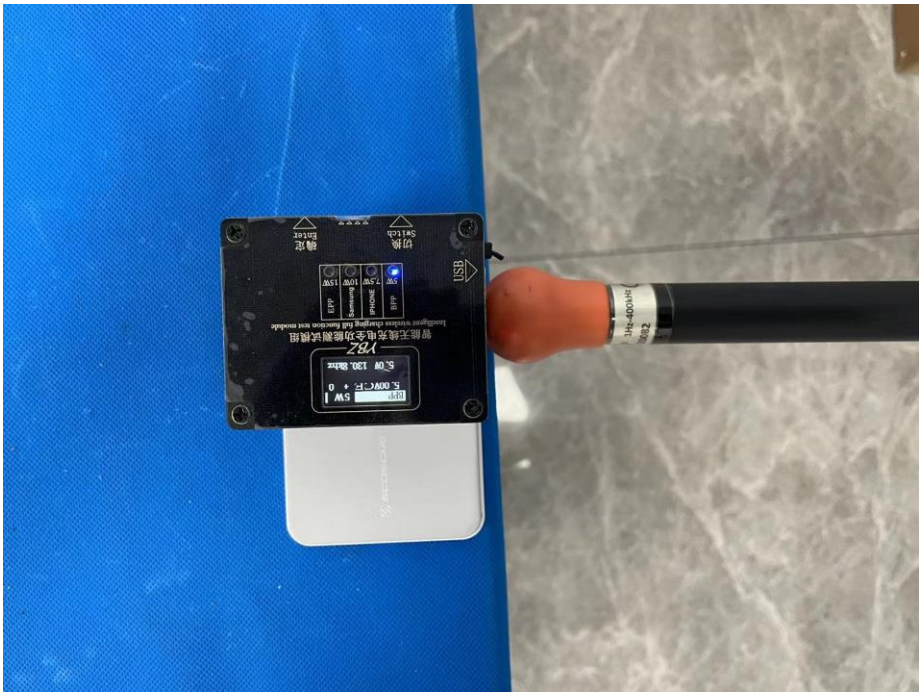
E-Field Strength at (distance from 0cm to 20cm at 2cm iteration) surrounding the EUT (V/m)

Test distance (cm)	Test Position Front (V/m)	Test Position Rear (V/m)	Test Position Left (V/m)	Test Position Right (V/m)	Test Position Top (V/m)	Limits (V/m)
0	18.025	18.312	19.021	20.482	21.415	614
2	17.556	17.131	18.566	19.353	20.680	614
4	15.116	15.956	16.253	17.154	11.521	614
6	10.380	10.338	10.863	10.124	11.513	614
8	9.215	9.081	9.912	7.141	6.626	614
10	6.318	5.456	6.911	6.647	6.961	614
12	5.391	4.453	5.364	5.956	5.204	614
14	2.618	3.917	3.279	3.617	3.833	614
16	2.436	2.288	2.983	2.752	2.901	614
18	1.183	1.162	1.442	1.175	1.559	614
20	0.860	0.850	0.601	0.671	0.354	614

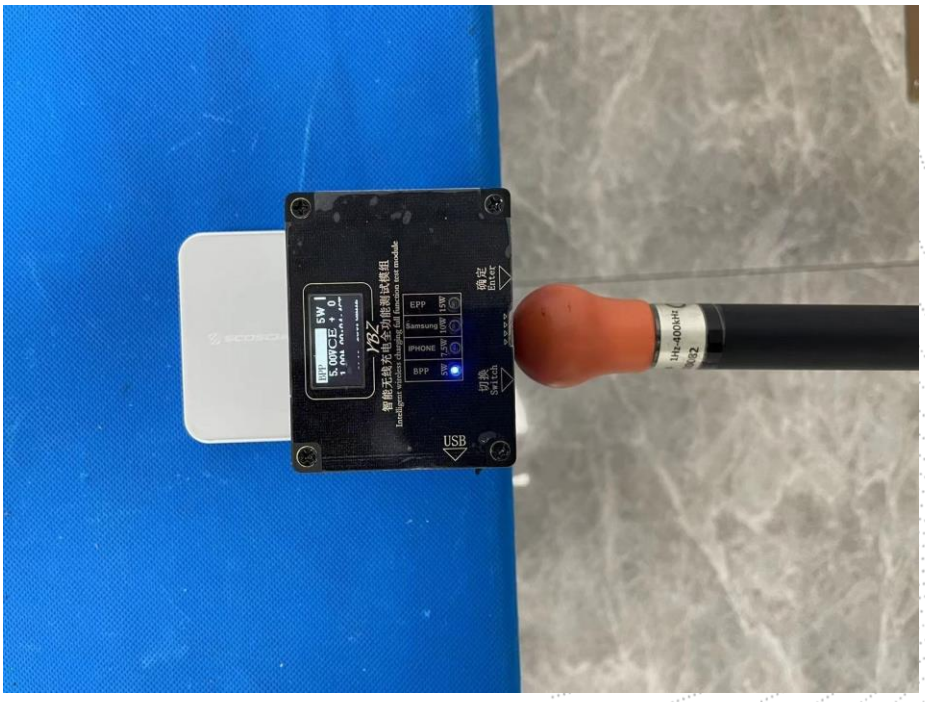
Note: In the frequency range of 1k-10M, except the fundamental frequency, other transmissions of the power transmission system are less than 20dB lower than the maximum fundamental transmission, so it is not necessary to evaluate.

5. Photographs of Test Set-Up

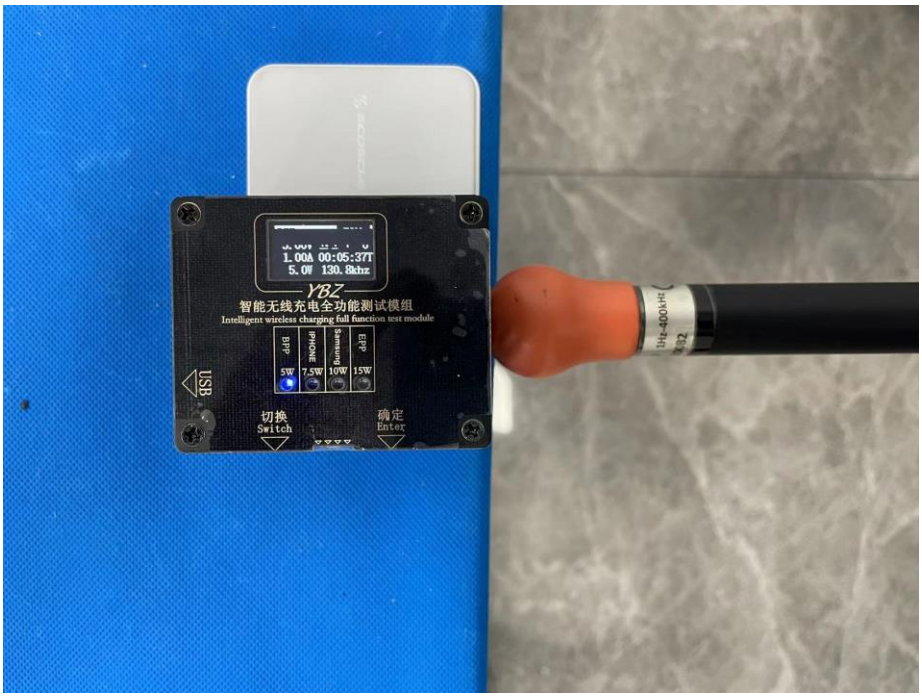
Left - 0CM



Front- 0CM

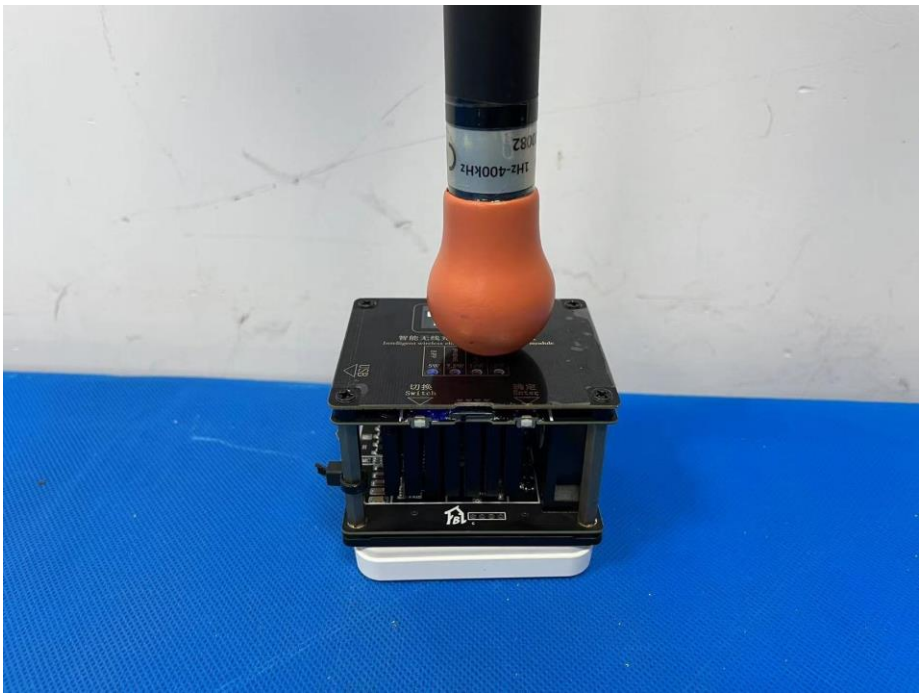


Right- 0CM

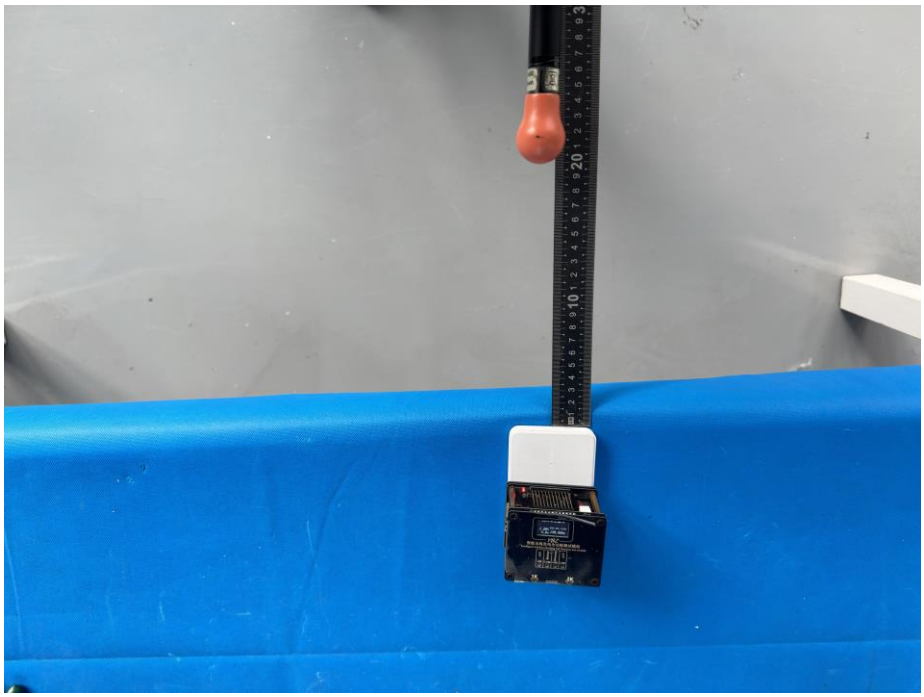


Rear - 0CM

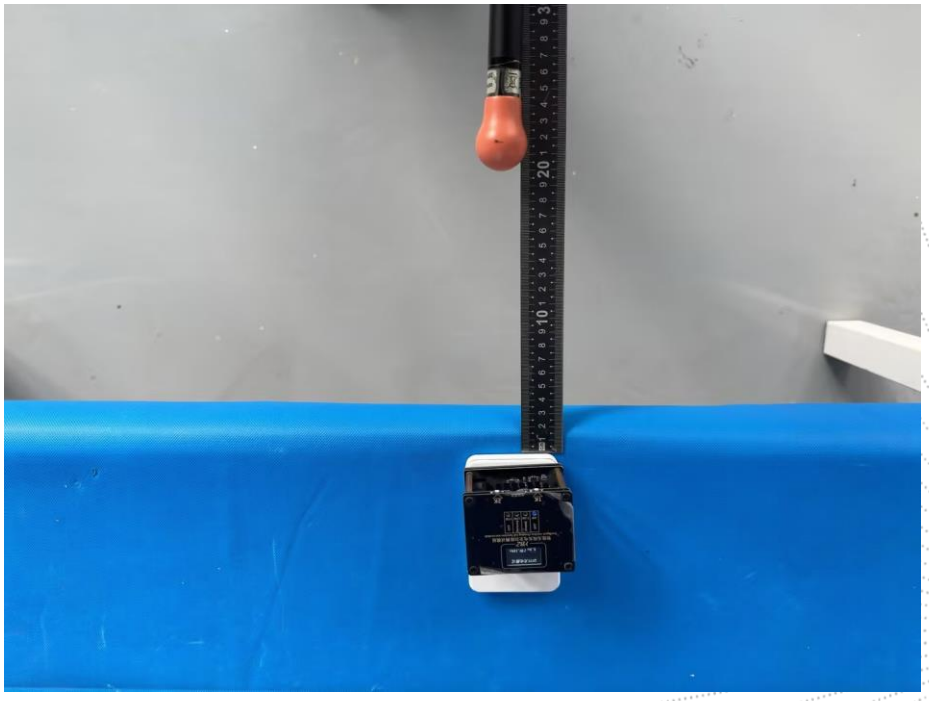
Top - 0CM



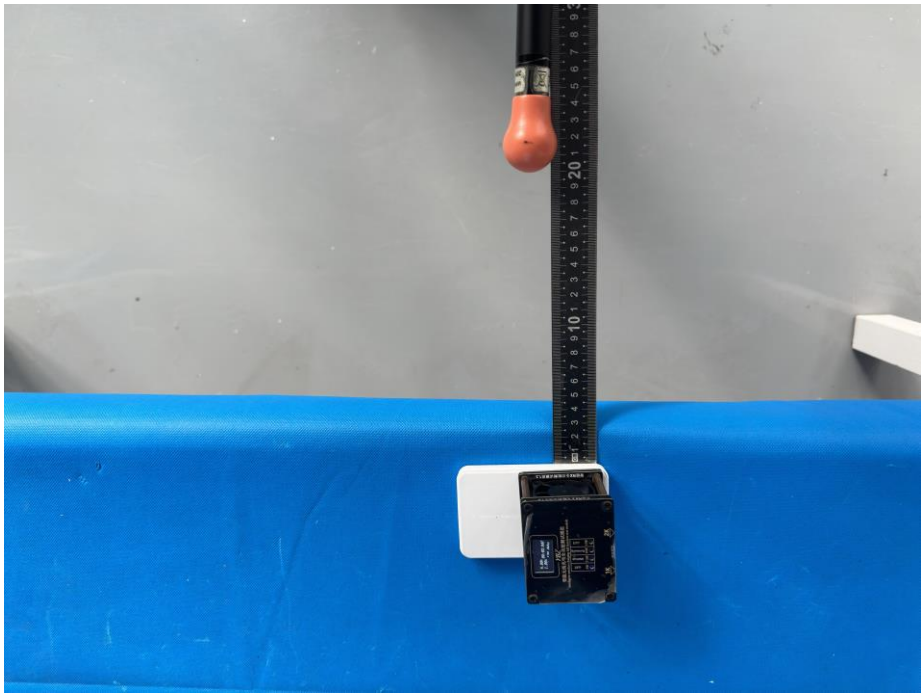
Left - 20CM



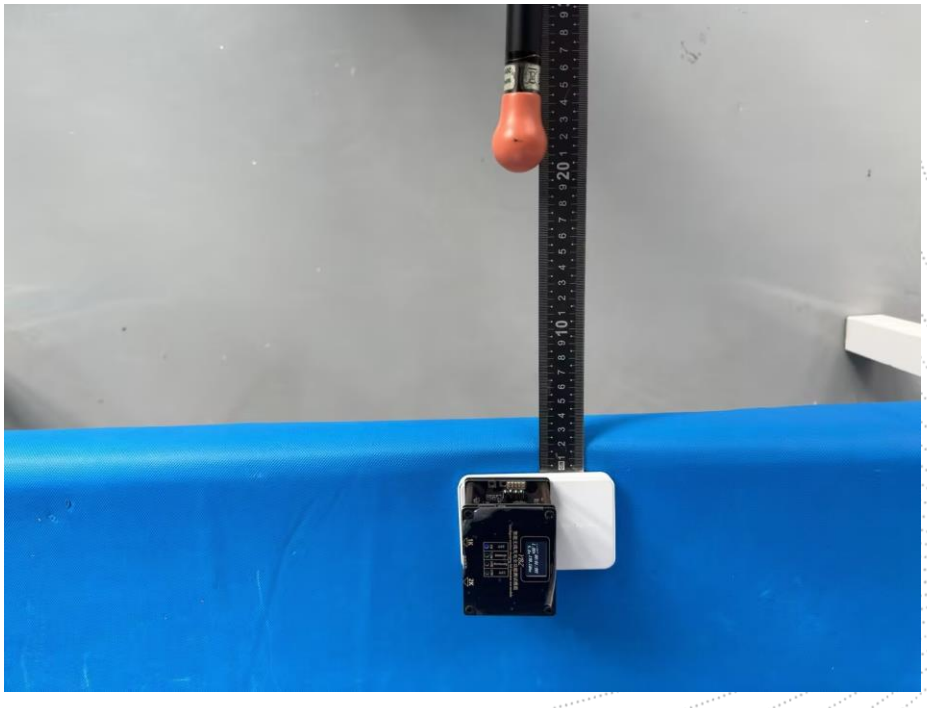
Front - 20CM



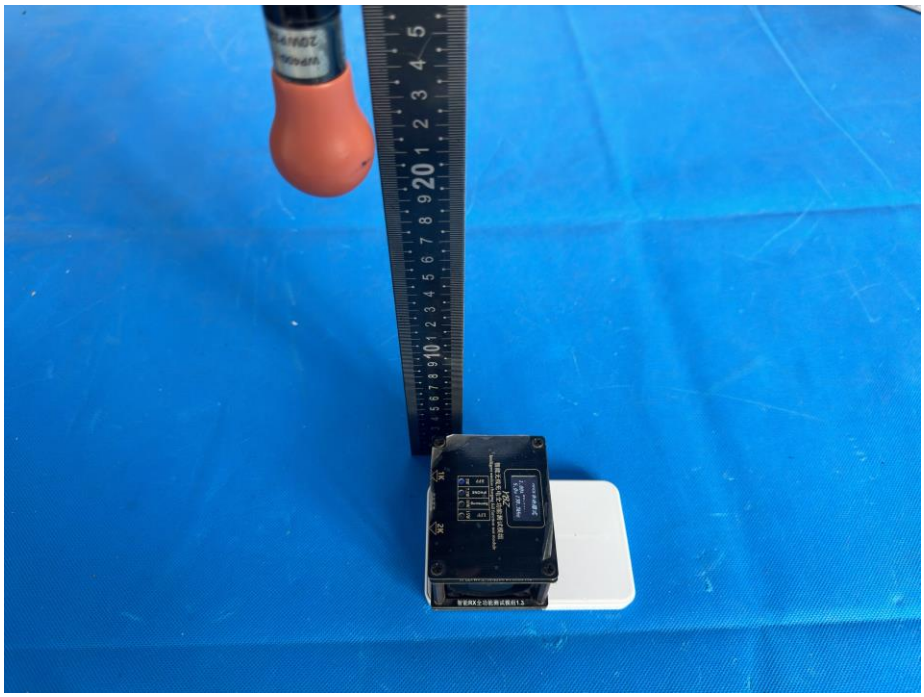
Right - 20CM



Rear - 20CM



Top - 20CM



STATEMENT

1.The equipment lists are traceable to the national reference standards.

2.The test report can not be partially copied unless prior written approval is issued from our lab.

3.The test report is invalid without stamp of laboratory.

4.The test report is invalid without signature of person(s) testing and authorizing.

5.The test process and test result is only related to the Unit Under Test.

6.The quality system of our laboratory is in accordance with ISO/IEC17025.

7.If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:
1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

TEL：400-788-9558

P.C.: 518103

FAX：0755-33229357

Website：http://www.chnbctc.com

E-Mail：bctc@bctc-lab.com.cn

※※※※※ **END** ※※※※※