TEST REPORT

Report No.:	BCTC2302846677-2E
Applicant:	Guangdong Xizhongxi Technology Co., Ltd.
Product Name:	iWatch Power Bank Waterproof
Model/Type Ref.:	ME05
Tested Date:	2023-02-20 to 2023-02-23
Issued Date:	2023-02-23

Shenzhen BCTC Testing Co., Ltd.

FCC ID:2A5LA-ME05

Product Name:	iWatch Power Bank Waterproof
Trademark:	N/A
Model/Type Ref.:	ME05
Prepared For:	Guangdong Xizhongxi Technology Co., Ltd.
Address:	Building 7, No. 1, Jizhou Middle Road, Daojiao Town, Dongguan City, Guangdong Province, China.
Manufacturer:	Guangdong Xizhongxi Technology Co., Ltd.
Address:	Building 7, No. 1, Jizhou Middle Road, Daojiao Town, Dongguan City, Guangdong Province, China.
Prepared By:	Shenzhen BCTC Testing Co., Ltd.
Address:	1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date:	2023-02-20
Sample tested Date:	2023-02-20 to 2023-02-23
Issue Date:	2023-02-23
Report No.:	BCTC2302846677-2E
Test Standards:	FCC CFR 47 part1, 1.1307(b), 1.1310
Test Results:	PASS

Tested by:

Jeff.Fu/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.

Table Of Content

(Note: N/A Means Not Applicable)

1. Version

Report No.	Issue Date	Description	Approved
BCTC2302846677-2E	2023-02-23	Original	Valid

2. Product Information

2.1 Product Information

Model/Type Ref.:	ME05
Model differences:	N/A
Product Description:	iWatch Power Bank Waterproof
Operation Frequency:	300kHz-350kHz
Antenna installation:	loop coil antenna
Ratings:	Type-C Output/Input: 5V⎓ 1A, 5W Wireless Charging Input: 5V⎓ 1A, 5W Wireless Charging Output: 5V⎓ 0.6A, 3W
Hardware Version:	N/A
Software Version:	N/A
Remark:	The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.

Cable of Product

No.	Cable Type	Quantity	Provider	Length (m)	Shielded	Note
1	--	--	Applicant	---	Yes/No	---
2	--	--	BCTC	--	Yes/No	--

2.2 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
1.	ADAPTER	UGREEN	CD122	---	Auxiliary
2.	Dummy load	APPLE	BCTC007	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.

2.3 Test Mode

Test Modes 1	Charging+Wireless Output 3W
Test Modes 2	Wireless Charging Input 5V/1A
Test Modes 3	Type-C Output 5V/1A
Test Modes 4	Wireless Output 3W
Test Modes 5	Type-C Output 5V/1A+Wireless Output 3W

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, Zhancheng, 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 26, 2022	May 25, 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
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\

4. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test item	Value (dB)
Field Strength	0.3

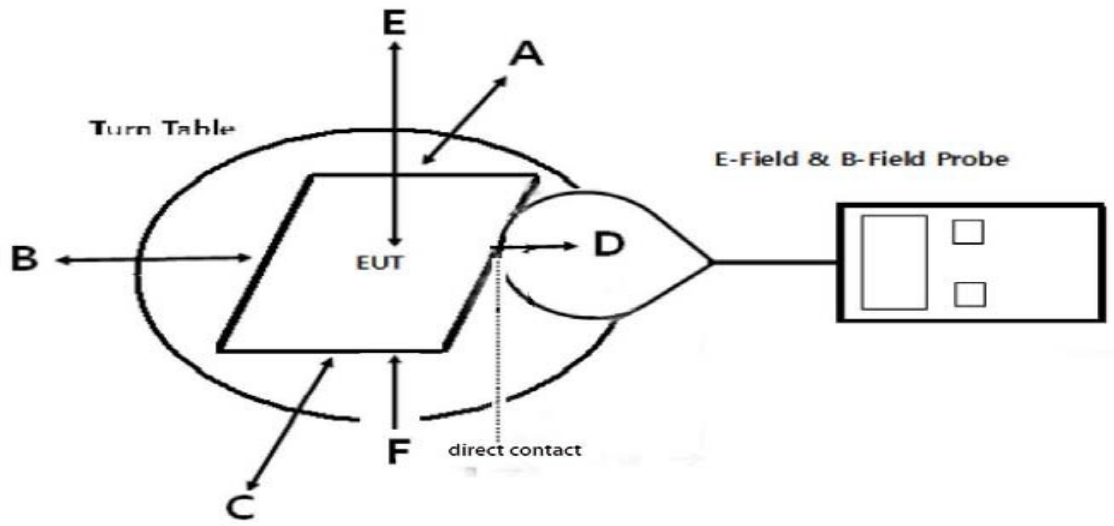
5. Method Of Measurement

5.1 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 RF exposure is calculated. According KDB680106 D01v03: RF Exposure Wireless Charging Apps v02.

5.2 Block Diagram Of Test Setup

A:



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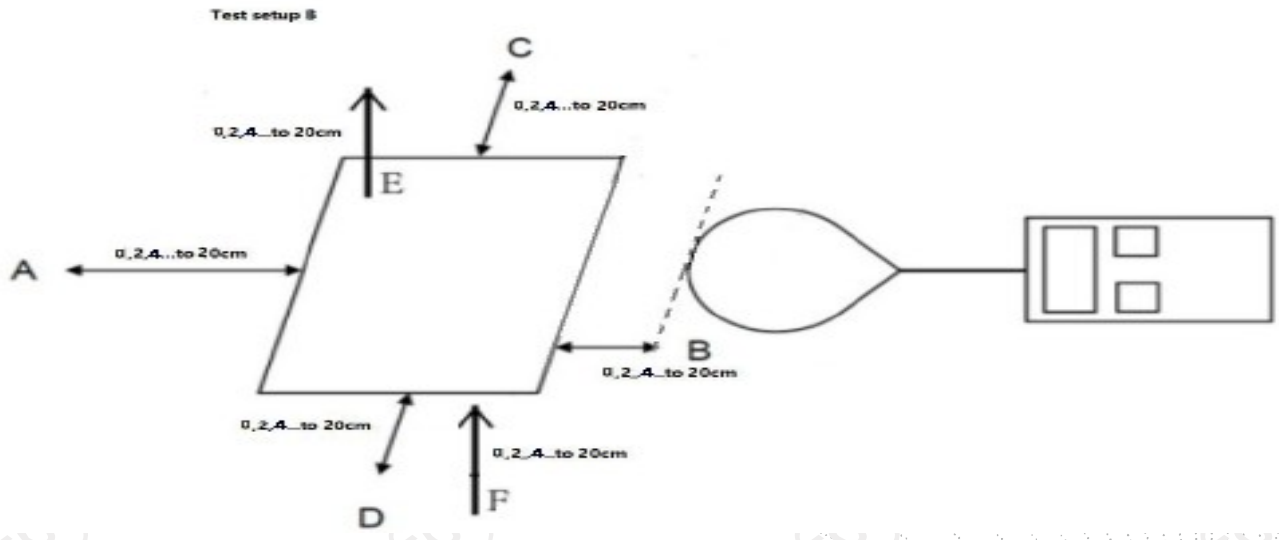


5.3 Limit

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

5.4 Test Procedure

a) he RF exposure test was performed in anechoic chamber.
b) 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.
c)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 (A, B, C, D, E) were completed.
d)The EUT was measured according to the dictates of KDB680106 D01v03r01
f)Remark:
The EUT's test position A, B, C, D , E and F is valid for the E and H field measurements.

5.5 E And H Field Strength

For setup A:
Worst Case Operating Mode: Mode 5

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

Frequency Range (KHz)	Operation condition	Test Position A (A/m)	Test Position B (A/m)	Test Position C (A/m)	Test Position D (A/m)	Test Position E (A/m)	Test Position F (A/m)	Limits (A/m)
300kHz-350kHz	1% battery	0.105	0.017	0.041	0.061	0.030	0.138	1.63
300kHz-350kHz	50% battery	0.097	0.083	0.047	0.108	0.080	0.081	1.63
300kHz-350kHz	99% battery	0.008	0.096	0.019	0.012	0.028	0.126	1.63

Frequency Range (KHz)	Operation condition	Test Position A (uT)	Test Position B (uT)	Test Position C (uT)	Test Position D (uT)	Test Position E (uT)	Test Position F (uT)	Limits (uT)
300kHz-350kHz	1% battery	0.131	0.021	0.052	0.076	0.037	0.173	2.038
300kHz-350kHz	50% battery	0.122	0.104	0.059	0.134	0.099	0.101	2.038
300kHz-350kHz	99% battery	0.010	0.119	0.024	0.015	0.036	0.157	2.038

Note: A/m=uT/1.25

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

Frequency Range (KHz)	Operation condition	Test Position A (V/m)	Test Position B (V/m)	Test Position C (V/m)	Test Position D (V/m)	Test Position E (V/m)	Test Position F (V/m)	Limits (V/m)
300kHz-350kHz	1% battery	0.091	0.048	0.091	0.128	0.044	0.047	614
300kHz-350kHz	50% battery	0.019	0.094	0.025	0.101	0.014	0.012	614
300kHz-350kHz	99% battery	0.038	0.032	0.028	0.010	0.088	0.083	614

For setup B:
Worst Case Operating Mode: Mode 5

1% battery

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

Test distance (cm)	Test Position A(A/m)	Test Position B(A/m)	Test Position C(A/m)	Test Position D(A/m)	Test Position E(A/m)	Test Position F(A/m)	Limits (A/m)
0	0.027	0.070	0.046	0.084	0.062	0.091	1.63
2	0.038	0.058	0.031	0.085	0.002	0.019	1.63
4	0.044	0.106	0.092	0.205	0.056	0.089	1.63
6	0.025	0.043	0.066	0.132	0.088	0.062	1.63
8	0.068	0.104	0.018	0.031	0.005	0.105	1.63
10	0.081	0.051	0.071	0.181	0.071	0.065	1.63
12	0.010	0.009	0.033	0.118	0.055	0.052	1.63
14	0.010	0.017	0.048	0.104	0.038	0.092	1.63
16	0.022	0.016	0.050	0.004	0.021	0.053	1.63
18	0.028	0.046	0.015	0.062	0.047	0.074	1.63
20	0.046	0.092	0.009	0.013	0.035	0.154	1.63

Test distance (cm)	Test Position A(uT)	Test Position B(uT)	Test Position C(uT)	Test Position D(uT)	Test Position E(uT)	Test Position F(uT)	Limits (uT)
0	0.034	0.087	0.057	0.105	0.078	0.114	2.038
2	0.047	0.072	0.038	0.106	0.002	0.024	2.038
4	0.056	0.132	0.116	0.256	0.070	0.111	2.038
6	0.031	0.054	0.082	0.164	0.110	0.077	2.038
8	0.085	0.129	0.023	0.039	0.006	0.131	2.038
10	0.102	0.063	0.089	0.226	0.088	0.081	2.038
12	0.013	0.012	0.041	0.147	0.069	0.064	2.038
14	0.012	0.021	0.060	0.130	0.048	0.115	2.038
16	0.028	0.019	0.063	0.006	0.026	0.066	2.038
18	0.036	0.058	0.019	0.078	0.059	0.093	2.038
20	0.058	0.115	0.011	0.016	0.043	0.192	2.038

Note: A/m=uT/1.25

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

Test distance (cm)	Test Position A(V/m)	Test Position B(V/m)	Test Position C(V/m)	Test Position D(V/m)	Test Position E(V/m)	Test Position F(V/m)	Limits (V/m)
0	0.103	0.028	0.065	0.153	0.061	0.080	614
2	0.002	0.080	0.047	0.070	0.001	0.150	614
4	0.003	0.086	0.059	0.214	0.006	0.015	614
6	0.081	0.112	0.074	0.125	0.002	0.059	614
8	0.062	0.023	0.078	0.105	0.030	0.051	614
10	0.037	0.037	0.030	0.177	0.041	0.086	614
12	0.088	0.080	0.071	0.098	0.009	0.033	1.63
14	0.076	0.055	0.009	0.053	0.019	0.136	614
16	0.108	0.047	0.028	0.114	0.045	0.077	614
18	0.003	0.001	0.015	0.065	0.026	0.045	614
20	0.018	0.087	0.025	0.144	0.012	0.070	614

50% battery

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

Test distance (cm)	Test Position A(A/m)	Test Position B(A/m)	Test Position C(A/m)	Test Position D(A/m)	Test Position E(A/m)	Test Position F(A/m)	Limits (A/m)
0	0.100	0.115	0.013	0.135	0.034	0.103	1.63
2	0.087	0.083	0.001	0.026	0.007	0.071	1.63
4	0.080	0.070	0.080	0.028	0.062	0.058	1.63
6	0.091	0.033	0.024	0.131	0.002	0.071	1.63
8	0.102	0.013	0.018	0.197	0.088	0.143	1.63
10	0.050	0.052	0.035	0.084	0.055	0.037	1.63
12	0.012	0.120	0.063	0.216	0.087	0.065	1.63
14	0.022	0.122	0.036	0.208	0.069	0.109	1.63
16	0.100	0.001	0.074	0.194	0.007	0.115	1.63
18	0.026	0.025	0.028	0.069	0.014	0.010	1.63
20	0.094	0.089	0.088	0.209	0.089	0.107	1.63

Test distance (cm)	Test Position A(uT)	Test Position B(uT)	Test Position C(uT)	Test Position D(uT)	Test Position E(uT)	Test Position F(uT)	Limits (uT)
0	0.125	0.144	0.016	0.169	0.043	0.129	2.038
2	0.109	0.103	0.002	0.033	0.008	0.089	2.038
4	0.101	0.088	0.100	0.035	0.078	0.072	2.038
6	0.114	0.041	0.030	0.164	0.003	0.089	2.038
8	0.127	0.016	0.023	0.246	0.111	0.179	2.038
10	0.063	0.066	0.044	0.105	0.069	0.046	2.038
12	0.015	0.150	0.079	0.270	0.109	0.081	2.038
14	0.028	0.152	0.045	0.260	0.087	0.136	2.038
16	0.126	0.001	0.093	0.242	0.009	0.144	2.038
18	0.032	0.031	0.034	0.086	0.017	0.013	2.038
20	0.118	0.111	0.110	0.261	0.111	0.134	2.038

Note: A/m=uT/1.25

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

Test distance (cm)	Test Position A(V/m)	Test Position B(V/m)	Test Position C(V/m)	Test Position D(V/m)	Test Position E(V/m)	Test Position F(V/m)	Limits (V/m)
0	0.072	0.045	0.069	0.183	0.034	0.005	614
2	0.097	0.022	0.011	0.221	0.068	0.116	614
4	0.080	0.040	0.025	0.174	0.003	0.085	614
6	0.065	0.074	0.071	0.041	0.050	0.137	614
8	0.028	0.021	0.071	0.213	0.008	0.091	614
10	0.074	0.099	0.025	0.064	0.080	0.012	614
12	0.057	0.041	0.052	0.213	0.050	0.047	614
14	0.024	0.018	0.051	0.121	0.060	0.073	614
16	0.104	0.098	0.002	0.141	0.027	0.024	614
18	0.075	0.088	0.041	0.097	0.038	0.026	614
20	0.063	0.066	0.004	0.221	0.057	0.072	614

99% battery

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

Test distance (cm)	Test Position A(A/m)	Test Position B(A/m)	Test Position C(A/m)	Test Position D(A/m)	Test Position E(A/m)	Test Position F(A/m)	Limits (A/m)
0	0.058	0.053	0.056	0.118	0.062	0.086	1.63
2	0.097	0.095	0.067	0.117	0.035	0.010	1.63
4	0.070	0.009	0.089	0.042	0.055	0.004	1.63
6	0.047	0.074	0.021	0.106	0.022	0.075	1.63
8	0.106	0.070	0.005	0.094	0.038	0.096	1.63
10	0.087	0.010	0.074	0.099	0.033	0.152	1.63
12	0.015	0.113	0.036	0.113	0.036	0.041	1.63
14	0.066	0.028	0.045	0.117	0.045	0.018	1.63
16	0.009	0.045	0.045	0.043	0.086	0.028	1.63
18	0.046	0.021	0.027	0.205	0.019	0.005	1.63
20	0.009	0.094	0.054	0.009	0.053	0.148	1.63

Test distance (cm)	Test Position A(uT)	Test Position B(uT)	Test Position C(uT)	Test Position D(uT)	Test Position E(uT)	Test Position F(uT)	Limits (uT)
0	0.073	0.066	0.070	0.147	0.078	0.108	2.038
2	0.121	0.119	0.083	0.147	0.043	0.012	2.038
4	0.088	0.012	0.112	0.053	0.069	0.005	2.038
6	0.059	0.092	0.026	0.132	0.028	0.094	2.038
8	0.133	0.087	0.007	0.118	0.048	0.120	2.038
10	0.109	0.012	0.092	0.124	0.041	0.190	2.038
12	0.018	0.141	0.045	0.141	0.045	0.051	2.038
14	0.083	0.035	0.057	0.147	0.056	0.023	2.038
16	0.011	0.056	0.057	0.054	0.108	0.035	2.038
18	0.057	0.027	0.034	0.256	0.023	0.007	2.038
20	0.011	0.118	0.068	0.011	0.067	0.185	2.038

Note: A/m=uT/1.25

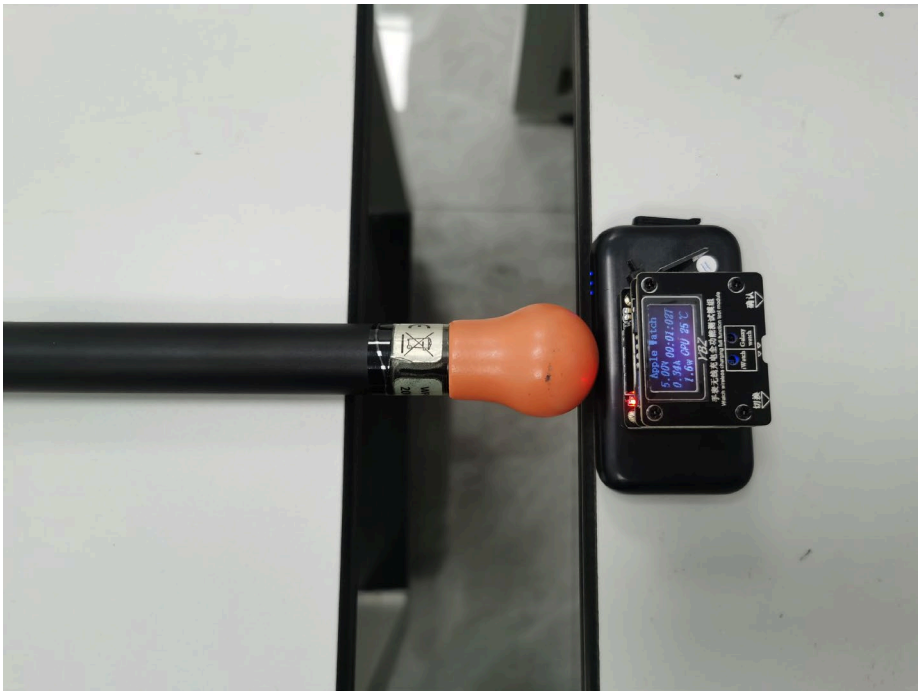
E-Filed Strength at (distance from 0cm to 20cm at 2cm iteration) surrounding the EUT (V/m)

Test distance (cm)	Test Position A(V/m)	Test Position B(V/m)	Test Position C(V/m)	Test Position D(V/m)	Test Position E(V/m)	Test Position F(V/m)	Limits (V/m)
0	0.024	0.101	0.009	0.154	0.075	0.103	614
2	0.019	0.053	0.083	0.214	0.062	0.046	614
4	0.031	0.004	0.079	0.219	0.040	0.152	614
6	0.079	0.048	0.037	0.069	0.067	0.068	614
8	0.102	0.066	0.004	0.217	0.035	0.131	614
10	0.058	0.028	0.043	0.024	0.054	0.058	614
12	0.083	0.101	0.090	0.090	0.010	0.102	614
14	0.101	0.082	0.002	0.047	0.069	0.095	614
16	0.047	0.089	0.085	0.214	0.000	0.015	614
18	0.066	0.115	0.044	0.180	0.084	0.033	614
20	0.015	0.079	0.023	0.197	0.079	0.096	614

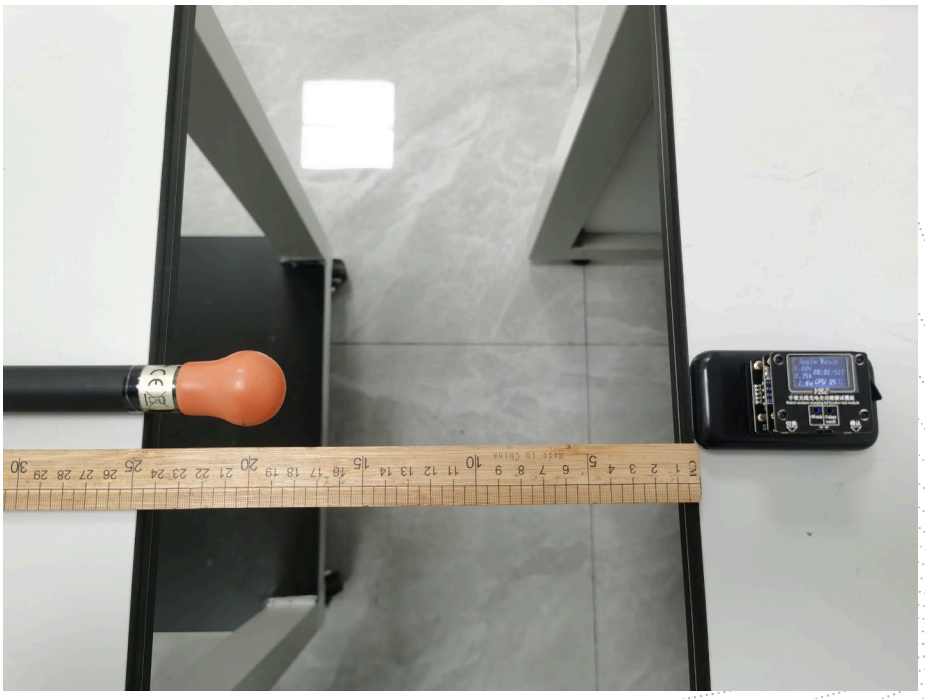
Note: In the frequency range of 1k-10M, except the fundamental frequency, other transmissions of the power transmission system are less than 20dB lower than the maximum fundamental transmission, so it is not necessary to evaluate.

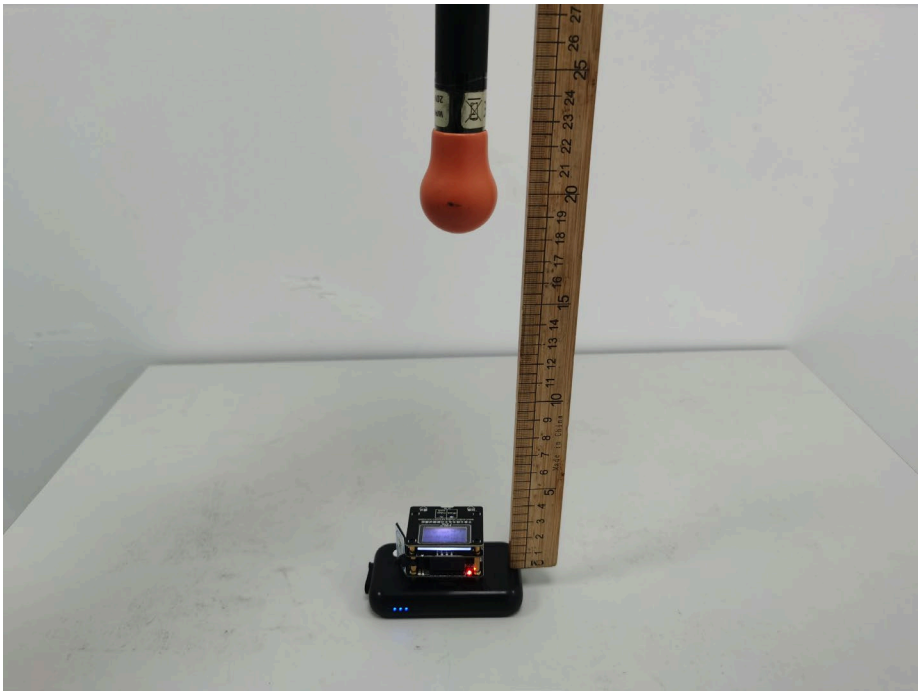
6. Photographs Of Test Set-Up

0CM



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 the "special seal for inspection and testing".

4. The test report is invalid without the signature of the approver.

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

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. The test report without CMA mark is only used for scientific research, teaching, enterprise product development and internal quality control purposes.

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

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

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※※※※※ **END** ※※※※※