TEST REPORT

Report No.:	BCTC2305129449-2E
Applicant:	Guangdong Xizhongxi Technology Co., Ltd.
Product Name:	Power Bank
Model/Type Ref.:	ME
Tested Date:	2023-05-26 to 2023-06-05
Issued Date:	2023-06-05

Shenzhen BCTC Testing Co., Ltd.

FCC ID: 2A5LA-ME

Product Name:	Power Bank
Trademark:	N/A
Model/Type Ref.:	ME
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:	2023-05-26
Sample tested Date:	2023-05-26 to 2023-06-05
Issue Date:	2023-06-05
Report No.:	BCTC2305129449-2E
Test Standards:	FCC CFR 47 part1, 1.1307(b), 1.1310
Test Results:	PASS

Tested by:

Lei Chen

Lei Chen/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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(Note: N/A Means Not Applicable)

1. Version

Report No.	Issue Date	Description	Approved
BCTC2305129449-2E	2023-06-05	Original	Valid

2. Product Information

2.1 Product Information

Model/Type Ref.:	ME
Model differences:	N/A
Product Description:	Power Bank
Operation Frequency:	115kHz-205kHz
Antenna installation:	loop coil antenna
Ratings:	Type C Input: DC 5V/3A, 9V2A Type C Output: DC 5V/3A, 9V/2.2A, 12V/1.5A Wireless charging Output: 5W/7.5W/10W/15W
Hardware Version:	N/A
Software Version:	N/A

Cable of Product

No.	Cable Type	Quantity	Provider	Length (m)	Shielded	Note
1	--	--	Applicant	---	Yes/No	With a ferrite ring in mid Detachable
2	--	--	BCTC	--	Yes/No	--

2.2 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
1.	Power Bank	N/A	ME	N/A	EUT

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 Mode 1	Wireless charging output 5W
Test Mode 2	Wireless charging output 7.5W
Test Mode 3	Wireless charging output 10W
Test Mode 4	Wireless charging output 15W

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
A2LA certificate registration number is: CN1212
ISED Registered No.: 23583
ISED CAB identifier: CN0017

3.2 Test Instrument Used

EMF Test					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
Electromagnet -ic radiation tester	Wavecontrol	SMP160	19SN0980	May 15, 2023	May 14, 2024
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	\	\

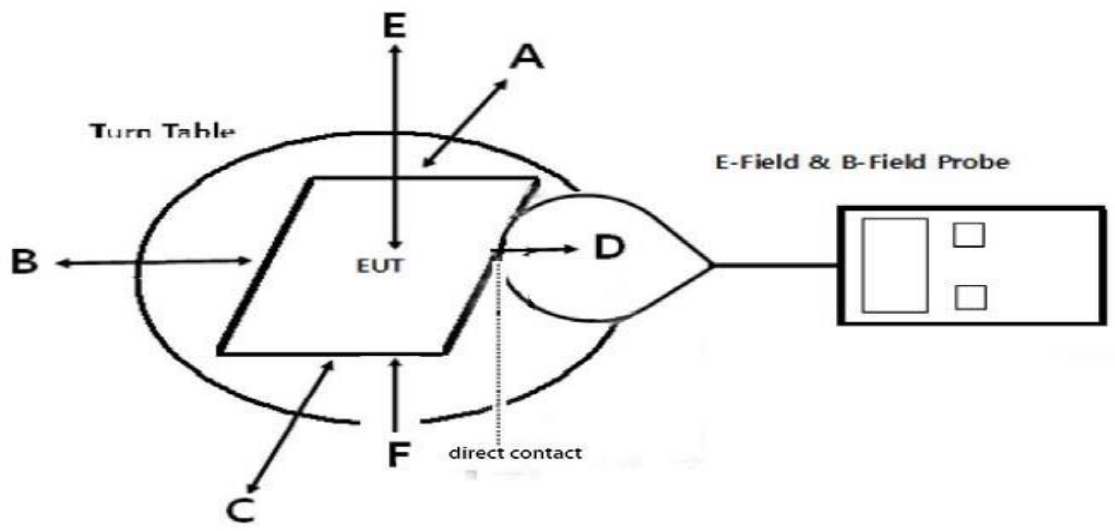
4. Method Of Measurement

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

4.2 Block Diagram Of Test Setup

A:



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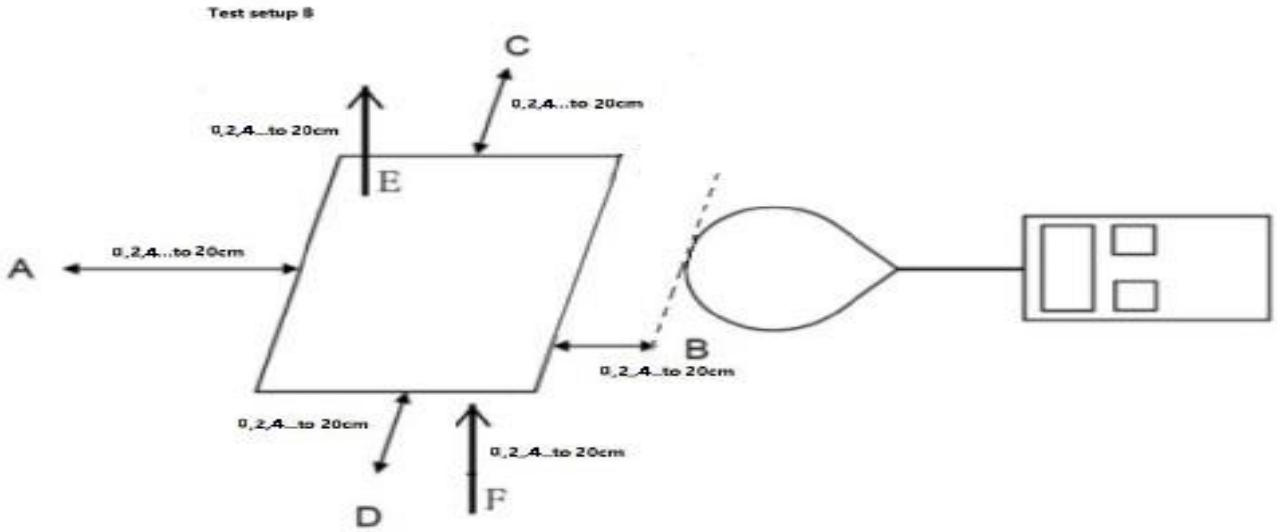


4.3 Limit

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

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.

4.5 Equipment Approval Considerations

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 115-205KHz
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 15W.
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.
   No, the prototype has only a single coil.
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:
Worst Case Operating Mode: Mode 4

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)
115kHz-205kHz	1% battery	0.075	0.073	0.064	0.109	0.035	0.072	1.63
115kHz-205kHz	50% battery	0.069	0.062	0.097	0.099	0.035	0.071	1.63
115kHz-205kHz	99% battery	0.073	0.080	0.082	0.106	0.042	0.068	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)
115kHz-205kHz	1% battery	0.094	0.092	0.080	0.136	0.044	0.091
115kHz-205kHz	50% battery	0.086	0.077	0.122	0.124	0.044	0.089
115kHz-205kHz	99% battery	0.092	0.100	0.103	0.133	0.053	0.085

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)
115kHz-205kHz	1% battery	0.077	0.078	0.076	0.098	0.045	0.087	614
115kHz-205kHz	50% battery	0.065	0.061	0.088	0.110	0.041	0.071	614
115kHz-205kHz	99% battery	0.060	0.087	0.083	0.100	0.034	0.067	614

For setup B:
Worst Case Operating Mode: Mode 4

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	0.068	0.090	0.095	0.102	0.045	0.062	1.63
2	0.073	0.074	0.078	0.090	0.030	0.094	1.63
4	0.060	0.075	0.100	0.101	0.040	0.070	1.63
6	0.073	0.079	0.095	0.092	0.047	0.082	1.63
8	0.072	0.083	0.062	0.108	0.032	0.088	1.63
10	0.068	0.083	0.072	0.107	0.042	0.094	1.63
12	0.075	0.066	0.093	0.095	0.044	0.079	1.63
14	0.079	0.075	0.089	0.107	0.042	0.074	1.63
16	0.068	0.064	0.081	0.101	0.040	0.091	1.63
18	0.070	0.071	0.082	0.094	0.031	0.071	1.63
20	0.066	0.070	0.067	0.100	0.034	0.093	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)
0	0.085	0.112	0.118	0.128	0.056	0.078
2	0.092	0.093	0.098	0.113	0.038	0.118
4	0.075	0.093	0.125	0.127	0.050	0.087
6	0.091	0.099	0.119	0.115	0.059	0.102
8	0.090	0.104	0.078	0.135	0.040	0.110
10	0.085	0.104	0.089	0.134	0.052	0.118
12	0.094	0.083	0.116	0.119	0.055	0.099
14	0.098	0.094	0.112	0.134	0.052	0.092
16	0.085	0.080	0.101	0.126	0.050	0.114
18	0.088	0.089	0.103	0.118	0.038	0.089
20	0.082	0.088	0.084	0.124	0.043	0.116

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	0.069	0.077	0.071	0.092	0.046	0.081	614
2	0.080	0.073	0.089	0.095	0.046	0.079	614
4	0.079	0.072	0.080	0.106	0.041	0.061	614
6	0.072	0.086	0.078	0.092	0.044	0.077	614
8	0.069	0.070	0.077	0.106	0.044	0.098	614
10	0.078	0.060	0.061	0.093	0.049	0.100	614
12	0.071	0.080	0.063	0.109	0.040	0.094	1.63
14	0.075	0.073	0.072	0.092	0.037	0.072	614
16	0.066	0.075	0.065	0.096	0.041	0.066	614
18	0.067	0.078	0.079	0.098	0.048	0.081	614
20	0.076	0.072	0.073	0.100	0.042	0.093	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	0.069	0.070	0.085	0.095	0.038	0.064	1.63
2	0.068	0.061	0.079	0.096	0.048	0.089	1.63
4	0.061	0.069	0.093	0.092	0.043	0.096	1.63
6	0.075	0.072	0.080	0.099	0.041	0.076	1.63
8	0.067	0.074	0.089	0.099	0.032	0.088	1.63
10	0.070	0.079	0.092	0.106	0.039	0.086	1.63
12	0.077	0.070	0.067	0.105	0.044	0.094	1.63
14	0.078	0.090	0.099	0.101	0.037	0.081	1.63
16	0.071	0.084	0.065	0.108	0.030	0.086	1.63
18	0.070	0.070	0.088	0.101	0.041	0.088	1.63
20	0.070	0.063	0.061	0.094	0.033	0.063	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)
0	0.087	0.087	0.106	0.119	0.048	0.081
2	0.086	0.076	0.099	0.121	0.060	0.111
4	0.076	0.086	0.116	0.115	0.053	0.120
6	0.093	0.090	0.099	0.124	0.051	0.095
8	0.084	0.093	0.111	0.124	0.040	0.110
10	0.088	0.098	0.115	0.133	0.049	0.107
12	0.096	0.088	0.084	0.132	0.055	0.117
14	0.098	0.112	0.123	0.126	0.047	0.101
16	0.089	0.104	0.082	0.135	0.038	0.107
18	0.088	0.087	0.110	0.126	0.052	0.110
20	0.088	0.079	0.077	0.118	0.041	0.078

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	0.062	0.071	0.084	0.105	0.049	0.089	614
2	0.062	0.079	0.073	0.106	0.035	0.097	614
4	0.061	0.071	0.093	0.097	0.031	0.078	614
6	0.080	0.084	0.100	0.107	0.038	0.085	614
8	0.062	0.076	0.074	0.106	0.035	0.083	614
10	0.065	0.085	0.068	0.108	0.037	0.070	614
12	0.067	0.081	0.088	0.107	0.035	0.066	614
14	0.066	0.062	0.071	0.093	0.039	0.088	614
16	0.062	0.081	0.073	0.103	0.037	0.067	614
18	0.065	0.061	0.066	0.098	0.041	0.062	614
20	0.063	0.083	0.085	0.106	0.048	0.090	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	0.073	0.082	0.080	0.099	0.032	0.074	1.63
2	0.060	0.062	0.088	0.102	0.036	0.091	1.63
4	0.063	0.071	0.089	0.090	0.048	0.095	1.63
6	0.065	0.072	0.091	0.093	0.040	0.064	1.63
8	0.067	0.075	0.061	0.107	0.043	0.084	1.63
10	0.061	0.074	0.094	0.103	0.044	0.069	1.63
12	0.068	0.070	0.078	0.101	0.046	0.071	1.63
14	0.069	0.070	0.064	0.091	0.049	0.072	1.63
16	0.071	0.086	0.077	0.094	0.045	0.090	1.63
18	0.061	0.071	0.069	0.106	0.042	0.082	1.63
20	0.080	0.062	0.094	0.092	0.030	0.095	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)
0	0.091	0.102	0.100	0.124	0.040	0.092
2	0.075	0.078	0.110	0.128	0.045	0.114
4	0.079	0.089	0.112	0.113	0.059	0.119
6	0.081	0.090	0.113	0.116	0.050	0.080
8	0.084	0.093	0.077	0.133	0.054	0.105
10	0.076	0.092	0.117	0.128	0.055	0.087
12	0.085	0.088	0.098	0.126	0.057	0.089
14	0.086	0.087	0.080	0.114	0.061	0.090
16	0.089	0.108	0.096	0.117	0.056	0.112
18	0.076	0.089	0.086	0.133	0.053	0.102
20	0.100	0.078	0.117	0.115	0.038	0.119

Note:A/m=uT÷1.25

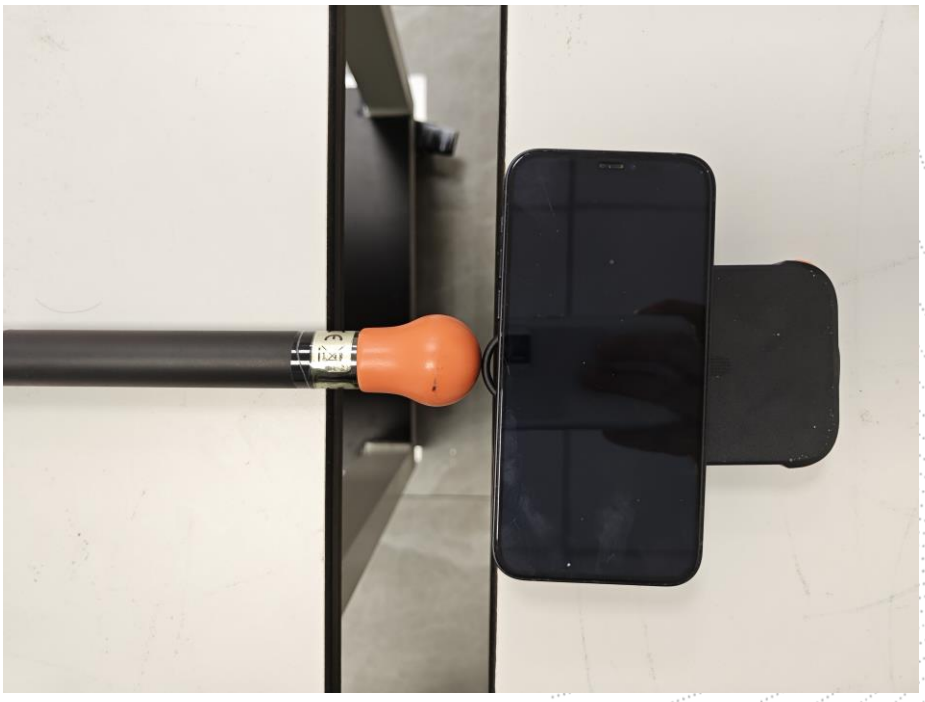
E-Filed Strength at (distance from 0cm to 20cm at 2cm iteration) surrounding the EUT (V/m)

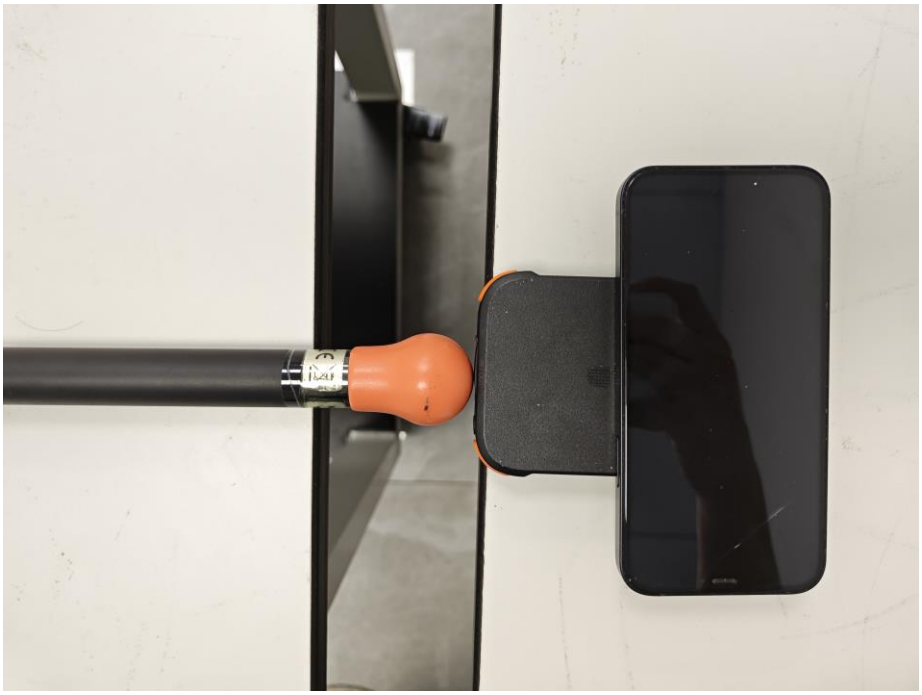
Test distance (cm)	Test Position A(V/m)	Test Position B(V/m)	Test Position C(V/m)	Test Position D(V/m)	Test Position E(V/m)	Test Position F(V/m)	Limits (V/m)
0	0.064	0.064	0.087	0.100	0.031	0.083	614
2	0.074	0.082	0.077	0.106	0.036	0.073	614
4	0.072	0.083	0.085	0.104	0.035	0.088	614
6	0.070	0.086	0.082	0.107	0.048	0.065	614
8	0.064	0.085	0.072	0.092	0.044	0.079	614
10	0.080	0.065	0.073	0.093	0.047	0.064	614
12	0.060	0.086	0.085	0.101	0.032	0.081	614
14	0.062	0.060	0.097	0.100	0.031	0.083	614
16	0.065	0.066	0.074	0.107	0.033	0.082	614
18	0.067	0.086	0.078	0.099	0.045	0.090	614
20	0.065	0.085	0.061	0.106	0.047	0.100	614

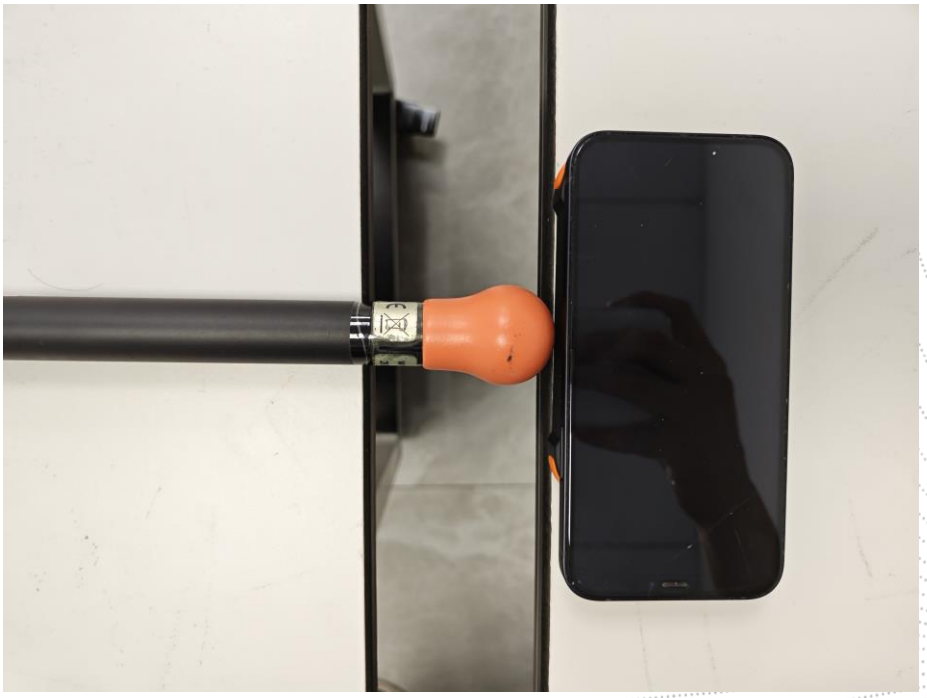
Note: In the frequency range of 1k-10M, except the fundamental frequency, other transmissions of the power transmission system are less than 20dB lower than the maximum fundamental transmission, so it is not necessary to evaluate.

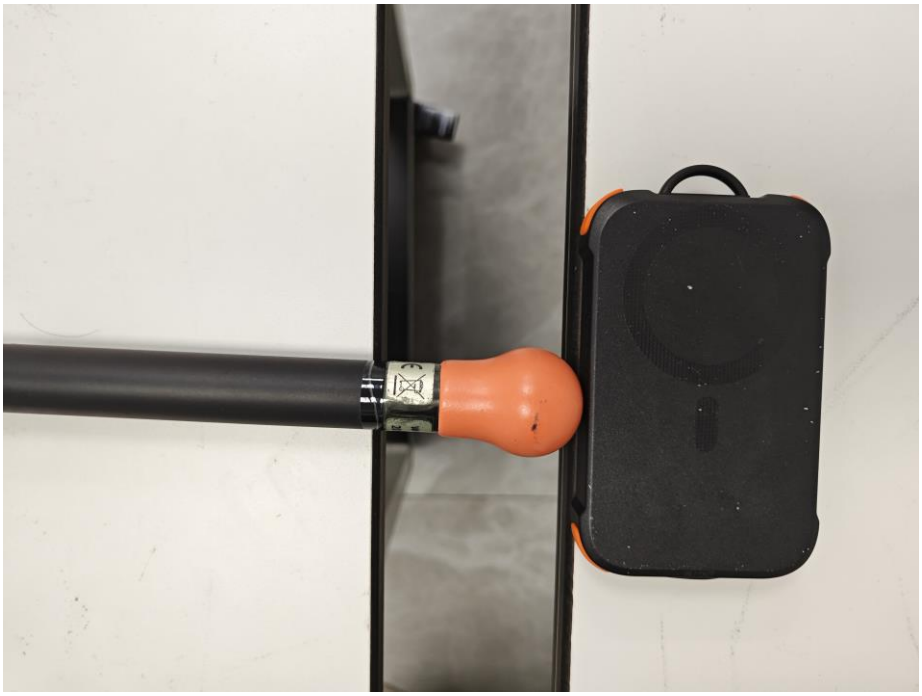
5. Photographs Of Test Set-Up

0CM









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

8. 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** ※※※※※