TEST REPORT

Report No.:	BCTC2306864949-2E
Applicant:	Shenzhen Nito Power Source Technology Co., Ltd.
Product Name:	Portable Wireless Charger
Model/Type reference:	JR-WQW01
Tested Date:	2023-06-21 to 2023-07-01
Issued Date:	2023-07-01

Shenzhen BCTC Testing Co., Ltd.

FCC ID: 2BA8X-JRWQW01

Product Name:	Portable Wireless Charger
Trademark:	N/A
Model/Type reference:	JR-WQW01
Prepared For:	Shenzhen Nito Power Source Technology Co., Ltd.
Address:	201, No. 8 Building, No. 49 WuheNan Rd., Jinfanghua Electricity industrial Park, Bantian St., Longgang District, Shenzhen, China
Manufacturer:	Shenzhen Nito Power Source Technology Co., Ltd.
Address:	201, No. 8 Building, No. 49 WuheNan Rd., Jinfanghua Electricity industrial Park, Bantian St., Longgang District, Shenzhen, 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:	2023-06-21
Sample tested Date:	2023-06-21 to 2023-07-01
Issue Date:	2023-07-01
Report No.:	BCTC2306864949-2E
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.

Table Of Content

(Note: N/A Means Not Applicable)

1. Version

Report No.	Issue Date	Description	Approved
BCTC2306864949-2E	2023-07-01	Original	Valid

2. Product Information

2.1 Product Information

Model/Type reference:	JR-WQW01
Model differences:	N/A
Hardware Version:	N/A
Software Version:	N/A
Operation Frequency:	300kHz-350kHz
Antenna installation:	coil antenna
Ratings:	Input: DC 5V/1A Output: Wireless charging 3W

2.2 Support Equipment

Device Type	Brand	Model	Series No.	Note
Portable Wireless Charger	N/A	JR-WQW01	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

Mode 1	Charging+ Wireless charging 3W
Mode 2	Wireless charging 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
FCC Designation Number: 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
Electromagnet -ic 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	\	\

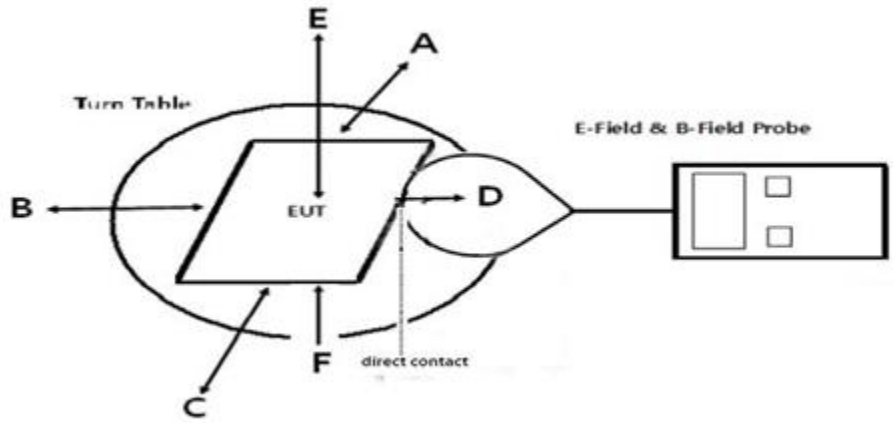
4. Method Of Measurement

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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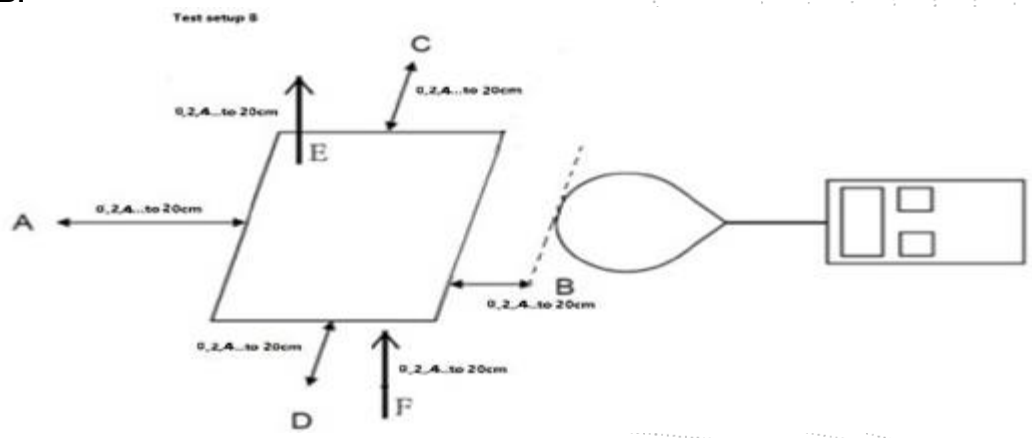


4.3 Limit

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 300-350kHz

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 3W.

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 only between 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 1

E-Filed Strength at 0 cm from edges surrounding the EUT

Battery level	Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position Top	10% Limits Test (V/m)	Limits Test (V/m)
1%	0.3-0.35	0.065	0.061	0.075	0.075	0.069	0.063	61.4	614
50%	0.3-0.35	0.066	0.078	0.069	0.077	0.079	0.076	61.4	614
99%	0.3-0.35	0.079	0.066	0.070	0.062	0.078	0.077	61.4	614

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

Battery level	Frequency Range (MHz)	Test Position A(uT)	Test Position B(uT)	Test Position C(uT)	Test Position D(uT)	Test Position E(uT)	Test Position Top(uT)	10% Limits Test (uT)
1%	0.3-0.35	0.074	0.071	0.078	0.076	0.066	0.066	0.204
50%	0.3-0.35	0.077	0.071	0.065	0.067	0.062	0.078	0.204
99%	0.3-0.35	0.079	0.069	0.078	0.064	0.062	0.067	0.204

Battery level	Frequency Range (MHz)	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 Top(A/m)	10% Limits Test (A/m)	Limits Test (A/m)
1%	0.3-0.35	0.059	0.056	0.062	0.061	0.053	0.052	0.163	1.630
50%	0.3-0.35	0.061	0.057	0.052	0.053	0.050	0.063	0.163	1.630
99%	0.3-0.35	0.063	0.055	0.063	0.051	0.050	0.053	0.163	1.630

Note:A/m=uT÷1.25

For setup B:
Worst Case Operating Mode: Mode 1

1% battery

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	0.100	0.107	0.099	0.094	0.093	0.094	614
2	0.097	0.105	0.097	0.098	0.096	0.095	614
4	0.092	0.092	0.105	0.093	0.097	0.091	614
6	0.100	0.106	0.100	0.094	0.093	0.095	614
8	0.091	0.098	0.102	0.101	0.104	0.100	614
10	0.107	0.090	0.098	0.092	0.105	0.106	614
12	0.110	0.107	0.105	0.095	0.104	0.098	614
14	0.106	0.096	0.100	0.097	0.097	0.095	614
16	0.094	0.096	0.094	0.100	0.101	0.096	614
18	0.091	0.096	0.096	0.093	0.099	0.107	614
20	0.092	0.108	0.106	0.094	0.106	0.108	614

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

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	0.108	0.091	0.106	0.091	0.093	0.099
2	0.101	0.102	0.110	0.106	0.102	0.105
4	0.094	0.092	0.098	0.106	0.105	0.103
6	0.099	0.091	0.103	0.109	0.096	0.110
8	0.107	0.106	0.106	0.102	0.099	0.094
10	0.093	0.091	0.101	0.095	0.105	0.099
12	0.092	0.100	0.096	0.090	0.095	0.102
14	0.098	0.107	0.109	0.094	0.107	0.092
16	0.107	0.104	0.093	0.091	0.107	0.105
18	0.094	0.093	0.094	0.105	0.099	0.104
20	0.109	0.105	0.097	0.093	0.104	0.093

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	0.086	0.072	0.085	0.073	0.074	0.079	1.630
2	0.081	0.081	0.088	0.084	0.082	0.084	1.630
4	0.075	0.073	0.078	0.085	0.084	0.083	1.630
6	0.079	0.073	0.083	0.087	0.077	0.088	1.630
8	0.085	0.084	0.085	0.082	0.079	0.075	1.630
10	0.074	0.073	0.081	0.076	0.084	0.079	1.630
12	0.073	0.080	0.077	0.072	0.076	0.082	1.630
14	0.078	0.086	0.087	0.075	0.085	0.073	1.630
16	0.086	0.083	0.074	0.073	0.086	0.084	1.630
18	0.075	0.074	0.075	0.084	0.079	0.083	1.630
20	0.087	0.084	0.077	0.074	0.083	0.074	1.630

Note: A/m=uT/1.25

50% battery

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	0.099	0.092	0.105	0.099	0.102	0.093	614
2	0.109	0.101	0.102	0.106	0.091	0.103	614
4	0.103	0.108	0.090	0.092	0.092	0.100	614
6	0.105	0.110	0.093	0.100	0.104	0.103	614
8	0.091	0.097	0.092	0.109	0.099	0.102	614
10	0.107	0.108	0.100	0.101	0.105	0.101	614
12	0.107	0.096	0.104	0.104	0.093	0.109	614
14	0.093	0.101	0.106	0.091	0.098	0.104	614
16	0.098	0.097	0.110	0.105	0.109	0.110	614
18	0.094	0.107	0.099	0.100	0.091	0.106	614
20	0.101	0.103	0.099	0.100	0.109	0.097	614

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

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	0.097	0.110	0.101	0.091	0.100	0.110
2	0.101	0.104	0.106	0.107	0.095	0.101
4	0.092	0.099	0.109	0.091	0.102	0.100
6	0.093	0.099	0.104	0.094	0.108	0.108
8	0.107	0.101	0.094	0.108	0.098	0.094
10	0.093	0.103	0.102	0.106	0.105	0.099
12	0.101	0.094	0.098	0.102	0.097	0.109
14	0.093	0.109	0.104	0.095	0.094	0.105
16	0.099	0.101	0.106	0.093	0.101	0.104
18	0.093	0.091	0.096	0.098	0.093	0.092
20	0.096	0.092	0.106	0.099	0.105	0.103

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	0.078	0.088	0.081	0.073	0.080	0.088	1.630
2	0.081	0.083	0.084	0.085	0.076	0.081	1.630
4	0.074	0.079	0.087	0.073	0.082	0.080	1.630
6	0.075	0.079	0.083	0.075	0.086	0.086	1.630
8	0.086	0.081	0.075	0.087	0.078	0.075	1.630
10	0.074	0.083	0.081	0.084	0.084	0.079	1.630
12	0.080	0.075	0.079	0.082	0.078	0.087	1.630
14	0.074	0.087	0.083	0.076	0.076	0.084	1.630
16	0.080	0.081	0.085	0.074	0.081	0.083	1.630
18	0.074	0.073	0.077	0.078	0.074	0.073	1.630
20	0.077	0.074	0.085	0.080	0.084	0.083	1.630

Note: A/m=uT/1.25

99% battery

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	0.100	0.096	0.097	0.109	0.097	0.097	614
2	0.100	0.107	0.101	0.103	0.092	0.090	614
4	0.109	0.108	0.105	0.092	0.092	0.107	614
6	0.096	0.092	0.105	0.098	0.103	0.096	614
8	0.095	0.106	0.105	0.098	0.105	0.108	614
10	0.103	0.095	0.091	0.108	0.094	0.090	614
12	0.099	0.101	0.091	0.109	0.093	0.103	614
14	0.100	0.107	0.098	0.092	0.101	0.106	614
16	0.097	0.098	0.102	0.104	0.104	0.100	614
18	0.100	0.108	0.102	0.107	0.099	0.093	614
20	0.092	0.100	0.104	0.099	0.091	0.096	614

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

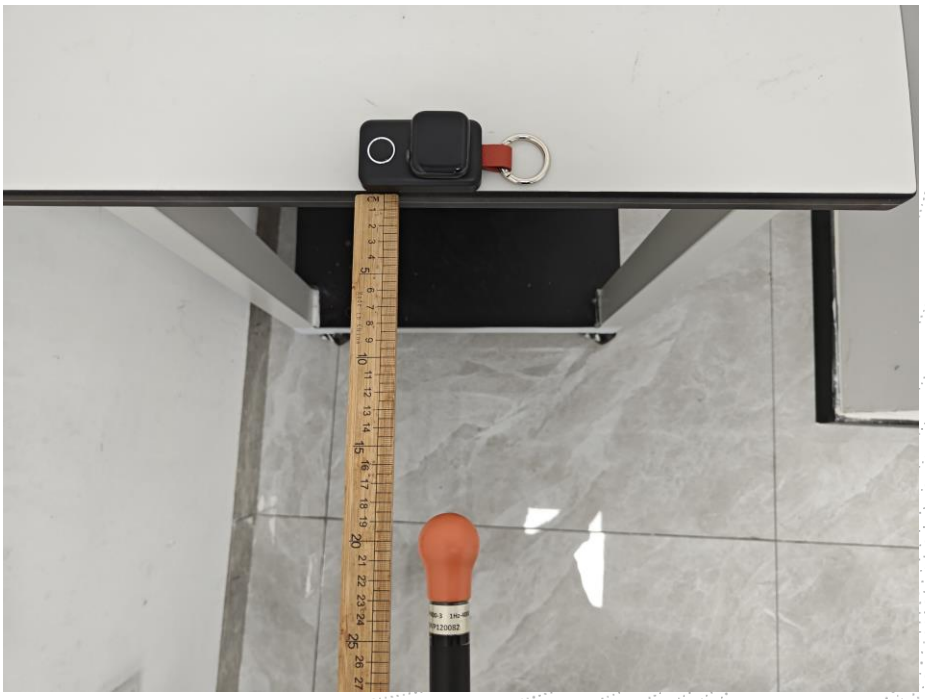
Test distance (cm)	Test Position A(uT)	Test Position B(uT)	Test Position C(uT)	Test Position D(uT)	Test Position E(uT)	Test Position F(uT)
0	0.095	0.110	0.108	0.096	0.102	0.098
2	0.091	0.096	0.104	0.102	0.094	0.107
4	0.103	0.096	0.093	0.091	0.110	0.103
6	0.108	0.093	0.092	0.109	0.097	0.107
8	0.109	0.092	0.107	0.104	0.105	0.098
10	0.100	0.097	0.094	0.096	0.104	0.095
12	0.103	0.104	0.104	0.102	0.092	0.108
14	0.093	0.100	0.109	0.109	0.097	0.094
16	0.106	0.094	0.096	0.091	0.098	0.100
18	0.099	0.100	0.099	0.094	0.100	0.091
20	0.097	0.101	0.091	0.094	0.096	0.092

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	0.076	0.088	0.087	0.077	0.082	0.079	1.630
2	0.073	0.077	0.083	0.082	0.075	0.086	1.630
4	0.082	0.077	0.074	0.073	0.088	0.082	1.630
6	0.086	0.074	0.073	0.087	0.077	0.086	1.630
8	0.087	0.074	0.085	0.083	0.084	0.078	1.630
10	0.080	0.078	0.075	0.077	0.083	0.076	1.630
12	0.082	0.083	0.083	0.082	0.073	0.087	1.630
14	0.075	0.080	0.087	0.088	0.078	0.075	1.630
16	0.085	0.075	0.077	0.072	0.078	0.080	1.630
18	0.079	0.080	0.079	0.076	0.080	0.073	1.630
20	0.077	0.081	0.073	0.075	0.077	0.073	1.630

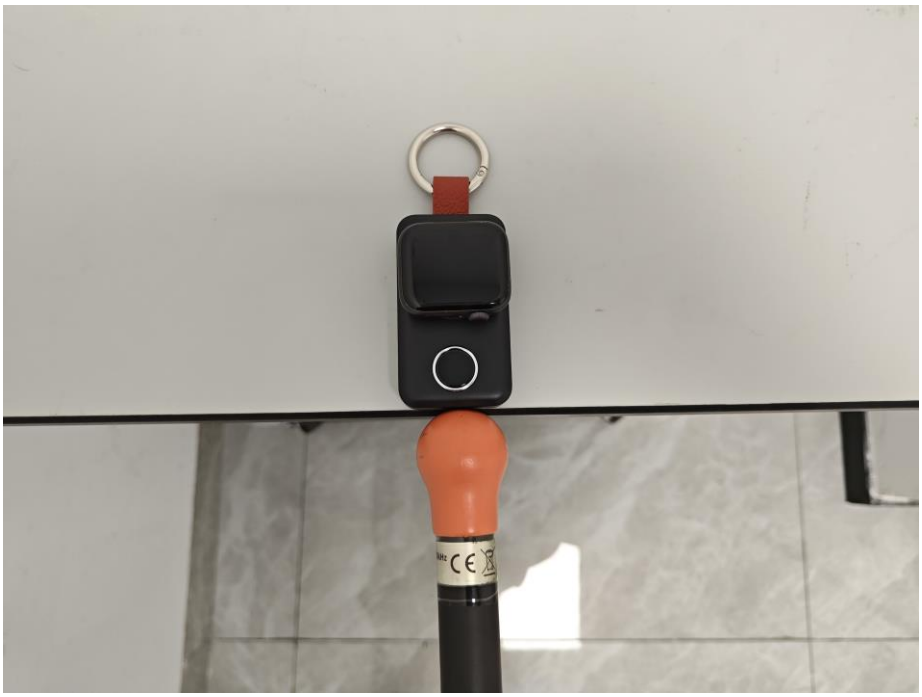
Note: A/m=uT/1.25

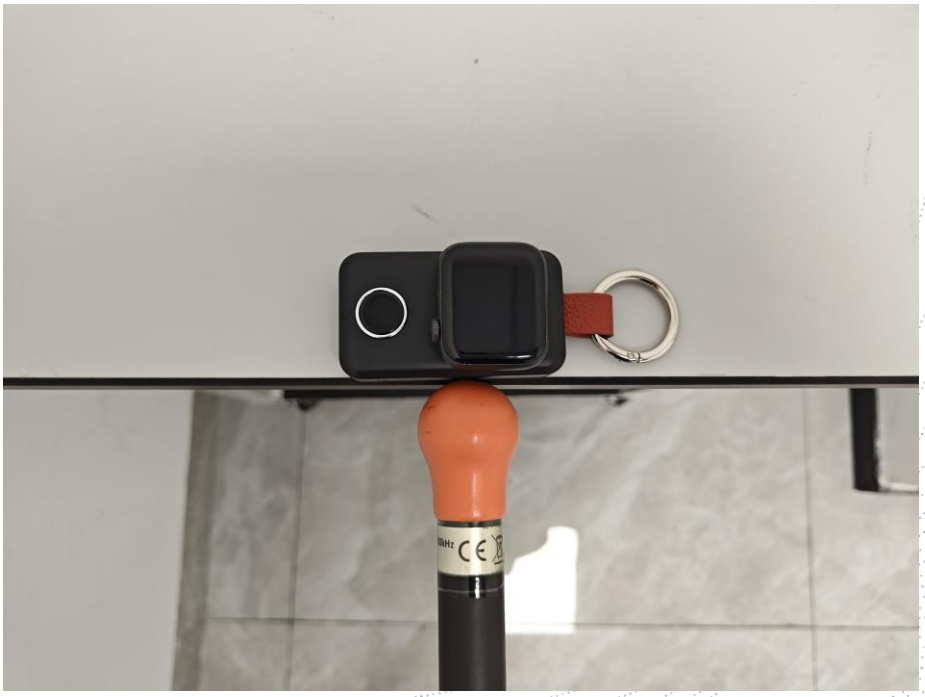
5. Photographs Of Test Set-Up

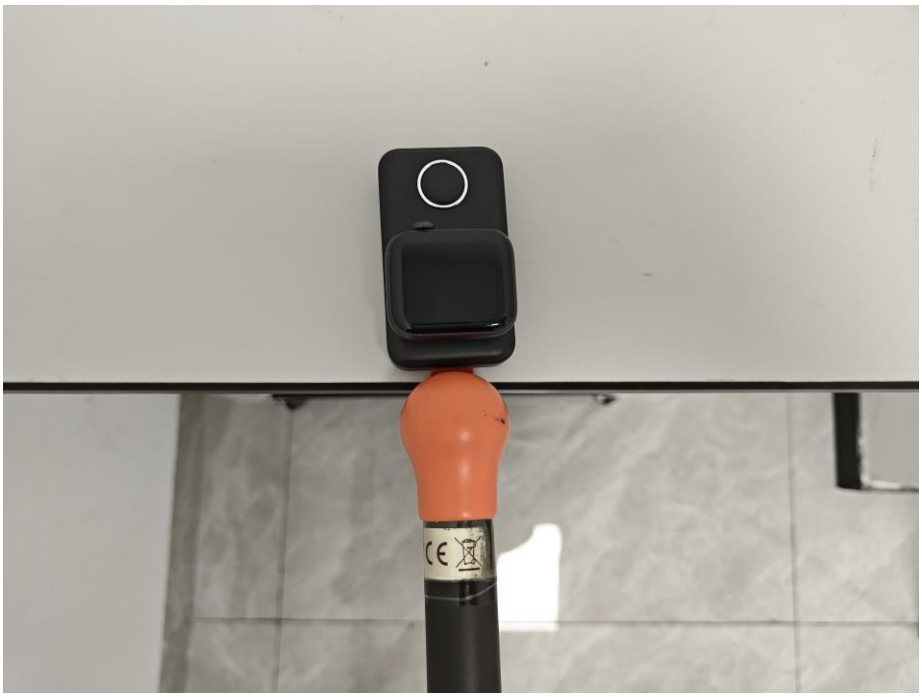
20CM

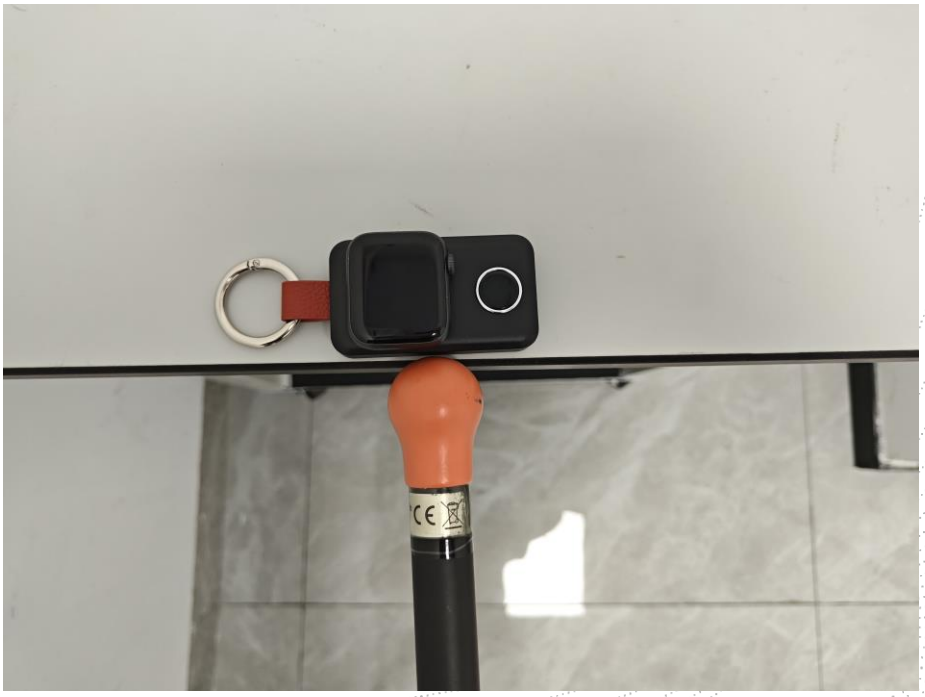


0CM









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** ※※※※※