

TEST REPORT

Report No.: BCTC2308143697-2E

Applicant: Guangdong Xizhongxi Technology Co., Ltd.

Product Name: Two in one wireless charging

Model/Type
reference: ME06

Tested Date: 2023-08-07 to 2023-08-16

Issued Date: 2023-08-18

Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2A5LA-ME06

Product Name: Two in one wireless charging

Trademark: N/A

Model/Type reference: ME06
ME10

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.
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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: 2023-08-04

Sample tested Date: 2023-08-07 to 2023-08-16

Issue Date: 2023-08-18

Report No.: BCTC2308143697-2E

Test Standards: FCC CFR 47 part1, 1.1307(b), 1.1310

Test Results: PASS

Tested by:

Eric Yang/Project Handler

Approved by:

Zero Zhou/Reviewer

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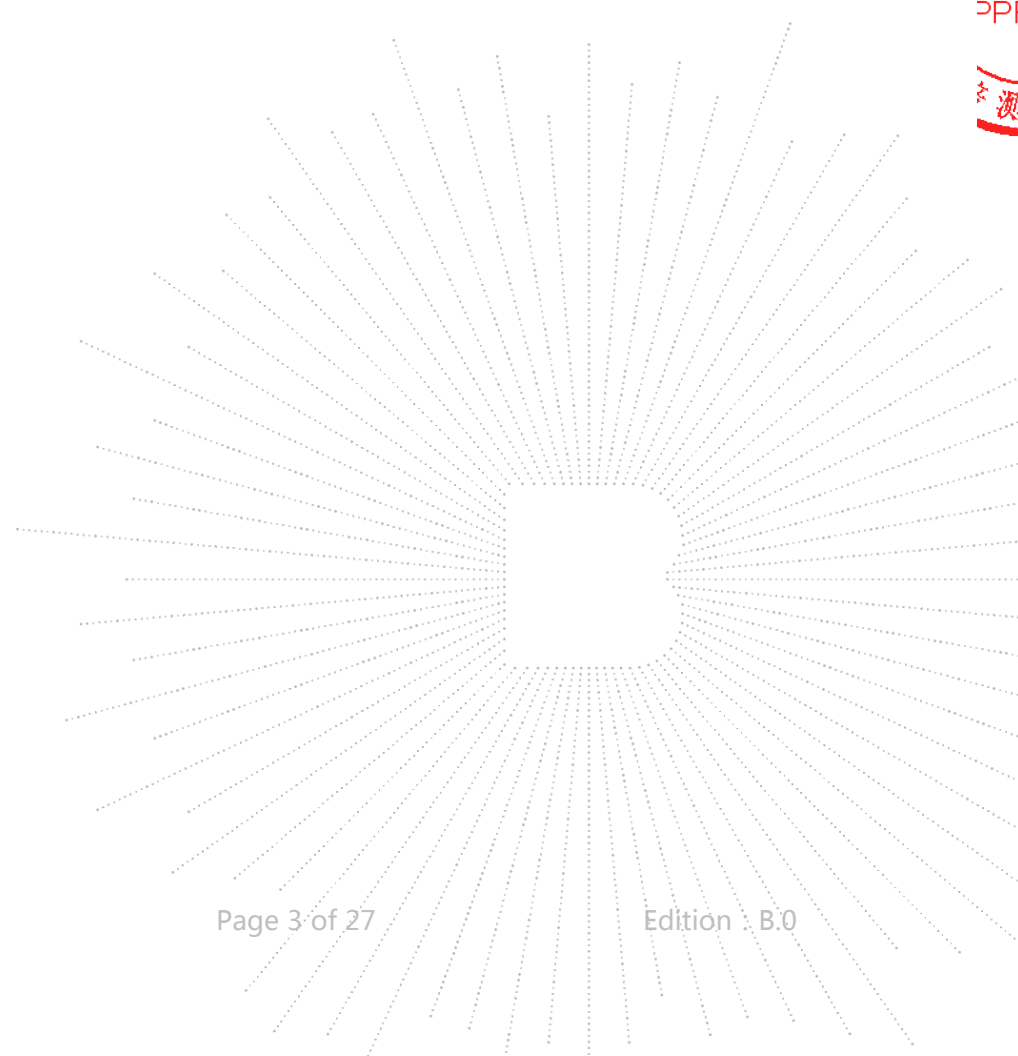


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(Note: N/A Means Not Applicable)

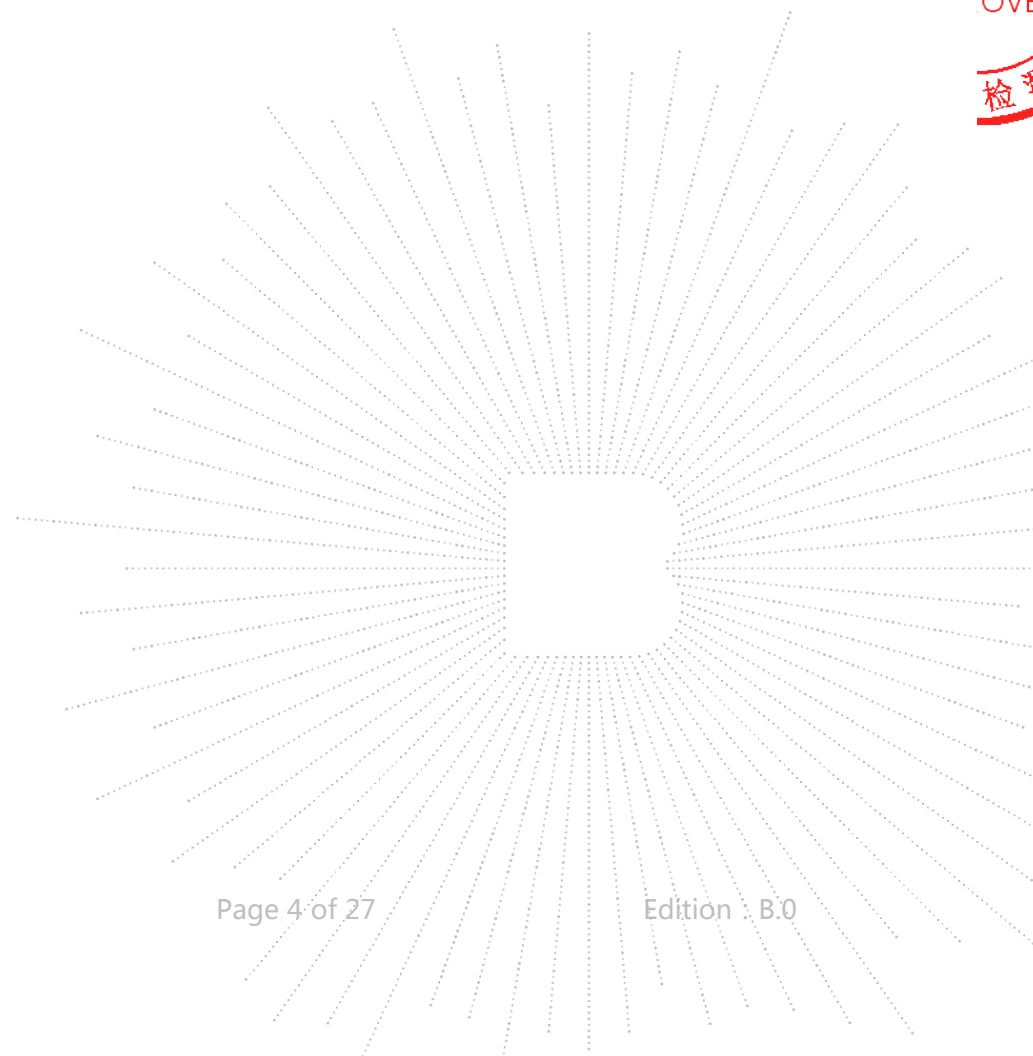
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1. Version

Report No.	Issue Date	Description	Approved
BCTC2308143697-2E	2023-08-18	Original	Valid

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2. Product Information

2.1 Product Information

Model/Type Ref.:	ME06 ME10
Model differences:	All the model are the same circuit and RF module, except model names.
Product Description:	Two in one wireless charging
Operation Frequency:	115kHz-220kHz(Phone) 300kHz-360kHz(IWATCH)
Antenna installation:	loop coil antenna DC 3.7V From Battery USB Input: DC 5V/2A
Ratings:	USB Ouput: DC 5V/2A Wireless Charging Output: 5W(Phone) Wireless Charging Output: 2.5W(IWATCH)

2.2 Support Equipment

Device Type	Brand	Model	Series No.	Note
Dummy load	N/A	DL01	N/A	Auxiliary
Adapter	N/A	CD226	N/A	Auxiliary

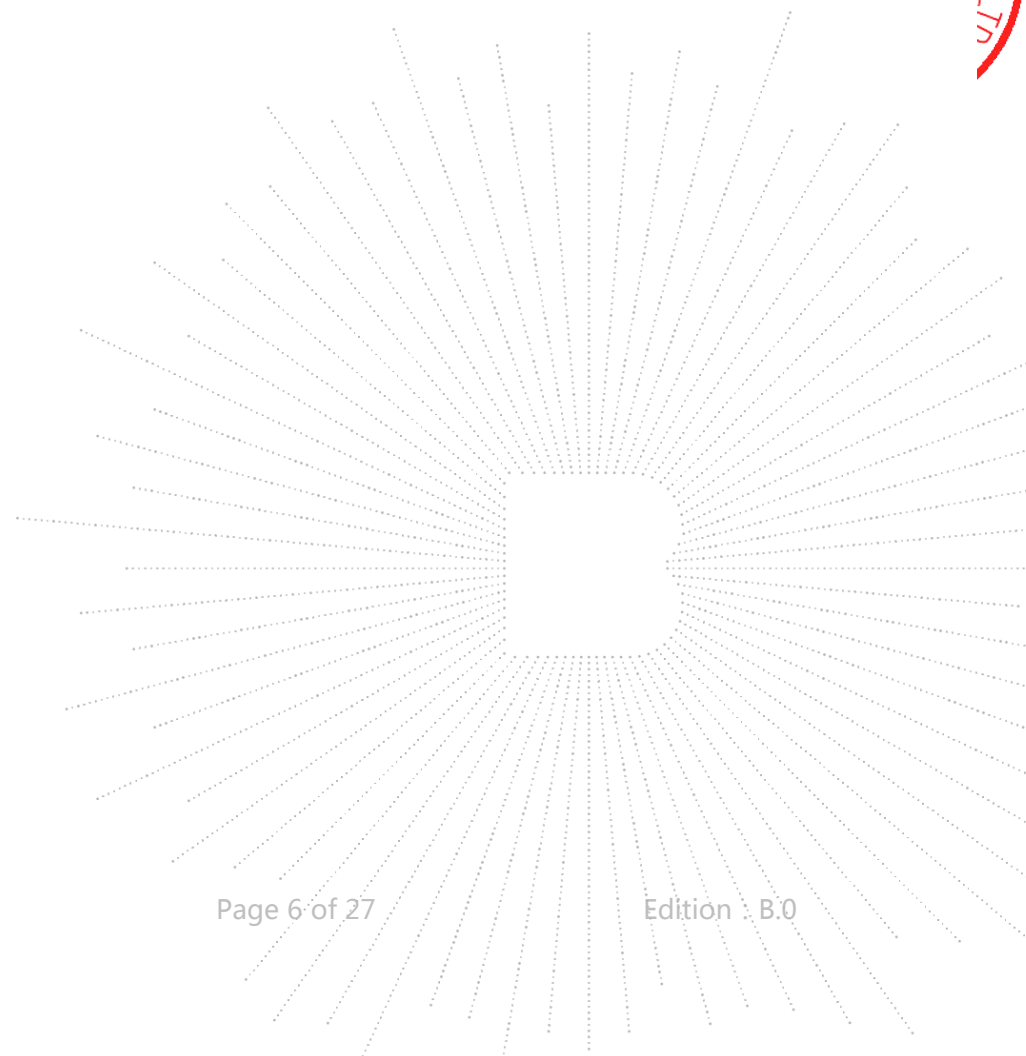
Notes:

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

AC adapter Mode	
Test Mode 1	AC Charging+ Wireless Charging+ Full load(5W(Phone)
Test Mode 2	AC Charging+ Wireless Charging+ Half-load(5W(Phone)
Test Mode 3	AC Charging+ Wireless Charging+ Null load(5W(Phone)
Test Mode 4	AC Charging+ Wireless Charging+ Full load(2.5W(IWATCH)
Test Mode 5	AC Charging+ Wireless Charging+ Half-load(2.5W(IWATCH)
Test Mode 6	AC Charging+ Wireless Charging+ Null load(2.5W(IWATCH)
Test Mode 7	AC Charging+ Wireless Charging+ Full load(5W(Phone)+ (2.5W(IWATCH)
Test Mode 8	AC Charging+ Wireless Charging+ Half-load(5W(Phone)+ (2.5W(IWATCH)
Test Mode 9	AC Charging+ Wireless Charging+ Null load(5W(Phone)+ (2.5W(IWATCH)
Battery Mode	
Test Mode 10	Wireless Charging+ Full load(5W(Phone)
Test Mode 11	Wireless Charging+ Half-load(5W(Phone)
Test Mode 12	Wireless Charging+ Null load(5W(Phone)
Test Mode 13	Wireless Charging+ Full load(2.5W(IWATCH)
Test Mode 14	Wireless Charging+ Half-load(2.5W(IWATCH)
Test Mode 15	Wireless Charging+ Null load(2.5W(IWATCH)
Test Mode 16	Wireless Charging+ Full load(5W(Phone)+ (2.5W(IWATCH)
Test Mode 17	Wireless Charging+ Half-load(5W(Phone)+ (2.5W(IWATCH)
Test Mode 18	Wireless Charging+ Null load(5W(Phone)+ (2.5W(IWATCH)



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

Equipment	Manufacturer	Model No.	Serial No.	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	\	\



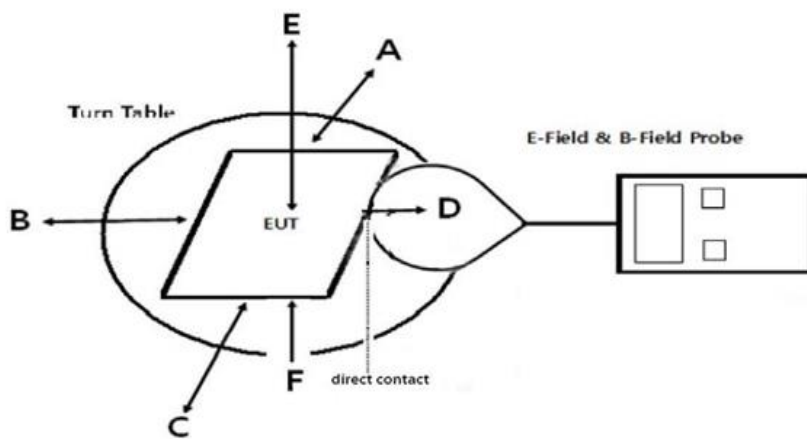
4. Method Of Measurement

4.1 Applicable Standard

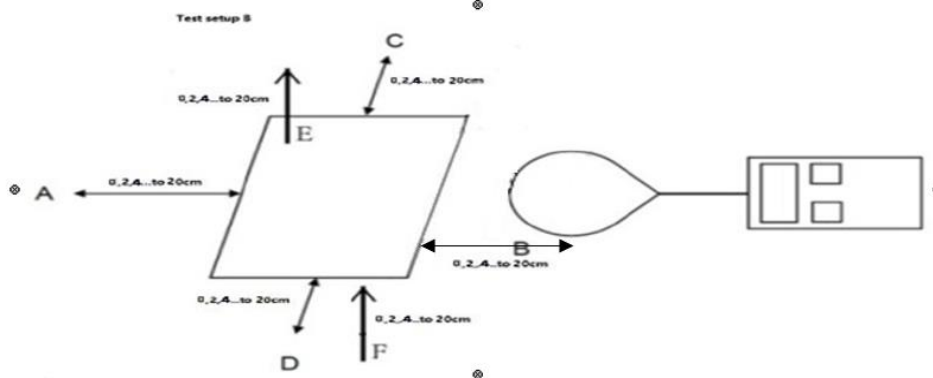
According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. According to §1.1310 and §2.1093 RF exposure is calculated. According KDB680106 D01v03: RF Exposure Wireless Charging v02.

4.2 Block Diagram Of Test Setup

A



B



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/ cm ²)	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/ cm ²)	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

- The RF exposure test was performed table in anechoic chamber.
- The measurement probe was placed at test distance (15cm) which is between the edge of the charger and the geometric centre of probe.
- The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- The EUT were measured according to the dictates of KDB 680106D01v03.

4.5 Equipment Approval Considerations

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

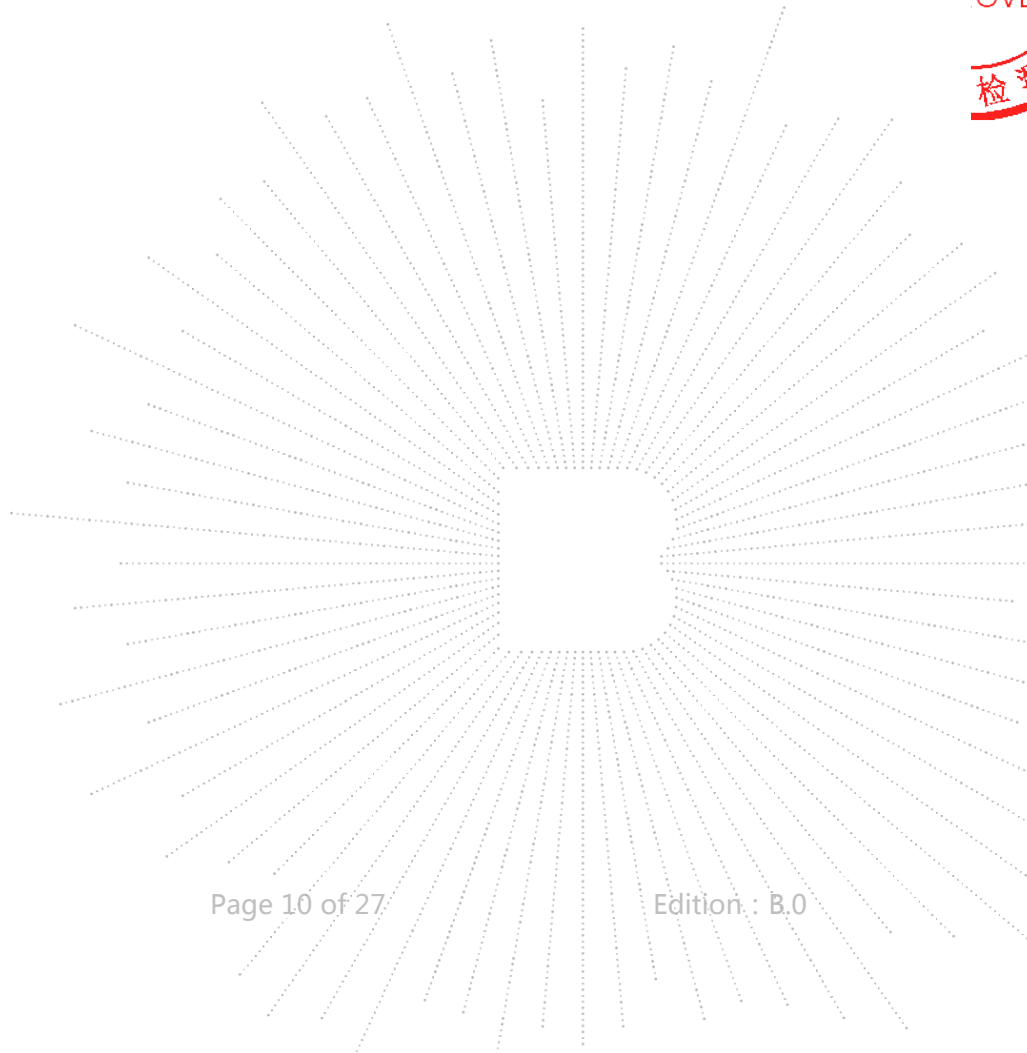
- Power transfer frequency is less than 1MHz
Yes, the device operate in the frequency range from 115-360KHz
- Output power from each primary coil is less than or equal to 15 watts.
Yes, the maximum output power of the primary coil is 5W
- The transfer system includes only single primary and secondary 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 prototype has a two 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.

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4.6 E and H field Strength

For setup A:
Worst Case Operating Mode: Mode 16

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)
115-360	1% battery	0.068	0.071	0.089	0.094	0.032	0.098	1.63
115360	50% battery	0.071	0.061	0.090	0.101	0.049	0.066	1.63
115-360	99% battery	0.065	0.083	0.088	0.096	0.045	0.065	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)
115-360	1% battery	0.084	0.089	0.111	0.118	0.040	0.123
115360	50% battery	0.088	0.077	0.112	0.126	0.061	0.083
115-360	99% battery	0.081	0.103	0.110	0.120	0.056	0.081

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)
115-360	1% battery	0.378	0.837	0.364	0.370	0.812	0.378	614
115360	50% battery	0.432	0.600	0.763	0.442	0.749	0.432	614
115-360	99% battery	0.715	0.796	0.886	0.443	0.638	0.715	614



For setup B:
Worst Case Operating Mode: Mode 16

1% battery

H-Filed Strength at (Distance from 0cm to 20cm and with 2-cm increments) 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)
2	0.062	0.080	0.077	0.103	0.034	0.072	1.63
4	0.073	0.087	0.081	0.104	0.039	0.092	1.63
6	0.074	0.078	0.082	0.105	0.037	0.085	1.63
8	0.073	0.068	0.086	0.099	0.038	0.081	1.63
10	0.074	0.074	0.085	0.106	0.047	0.079	1.63
12	0.067	0.081	0.073	0.104	0.050	0.080	1.63
14	0.068	0.064	0.091	0.097	0.034	0.067	1.63
16	0.064	0.073	0.090	0.094	0.046	0.088	1.63
18	0.061	0.080	0.064	0.108	0.033	0.082	1.63
20	0.073	0.082	0.063	0.108	0.038	0.095	1.63

Test distance (cm)	Test Position A(μT)	Test Position B(μT)	Test Position C(μT)	Test Position D(μT)	Test Position E(μT)	Test Position F(μT)
2	0.078	0.100	0.096	0.128	0.042	0.089
4	0.092	0.109	0.101	0.130	0.048	0.114
6	0.092	0.097	0.103	0.131	0.046	0.106
8	0.091	0.085	0.107	0.124	0.048	0.101
10	0.092	0.093	0.106	0.132	0.059	0.099
12	0.083	0.101	0.091	0.130	0.062	0.100
14	0.085	0.080	0.114	0.122	0.042	0.083
16	0.080	0.092	0.113	0.118	0.058	0.111
18	0.076	0.100	0.080	0.135	0.041	0.102
20	0.091	0.103	0.078	0.135	0.047	0.118

Note: $A/m = \mu T / 1.25$

E-Filed Strength at (Distance from 0cm to 20cm and with 2-cm increments) 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)
2	0.804	0.712	0.754	0.649	0.570	0.804	614
4	0.481	0.443	0.544	0.561	0.883	0.481	614
6	0.515	0.638	0.894	0.820	0.918	0.515	614
8	0.727	0.402	0.371	0.739	0.538	0.727	614
10	0.698	0.417	0.602	0.472	0.808	0.698	614
12	0.908	0.408	0.865	0.509	0.583	0.908	614
14	0.642	0.627	0.675	0.592	0.502	0.642	614
16	0.595	0.761	0.602	0.780	0.364	0.595	614
18	0.381	0.864	0.804	0.839	0.362	0.381	614
20	0.577	0.841	0.677	0.510	0.491	0.577	614

50% battery

H-Filed Strength at (Distance from 0cm to 20cm and with 2-cm increments) surrounding the EUT (A/m)

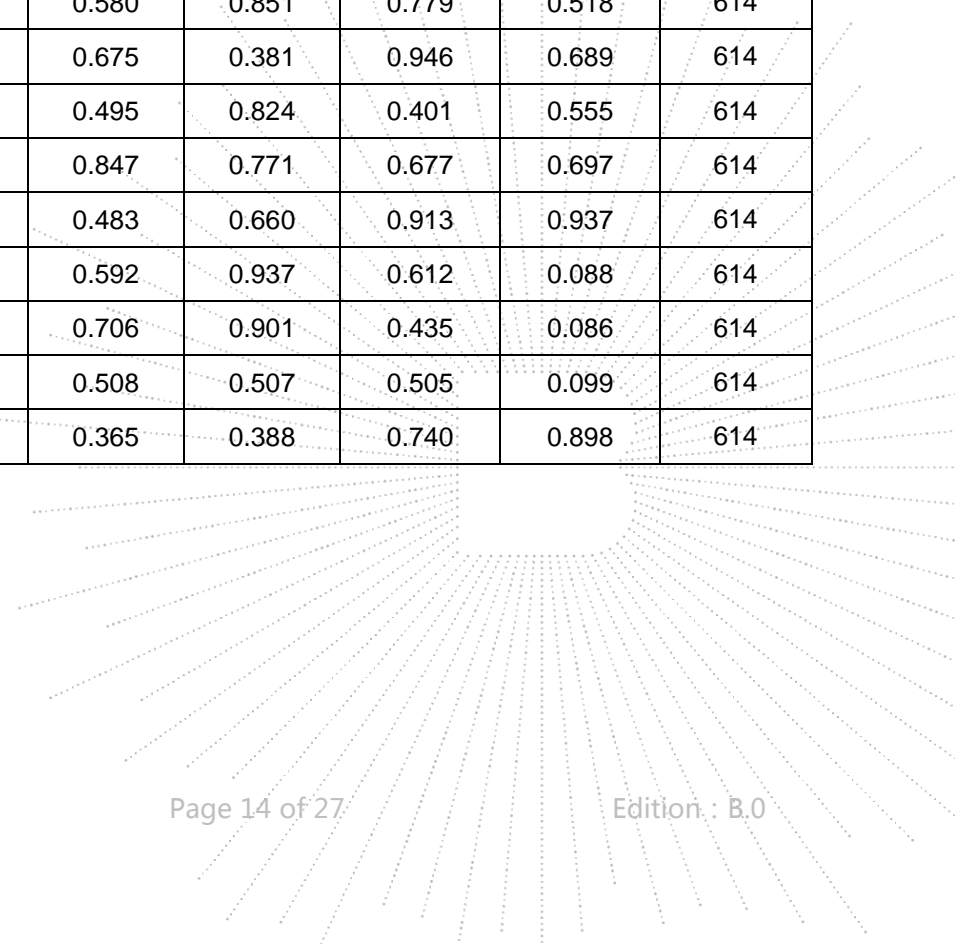
Test distance (cm)	Test Position A(A/m)	Test Position B(A/m)	Test Position C(A/m)	Test Position D(A/m)	Test Position E(A/m)	Test Position F(A/m)	Limits (A/m)
2	0.065	0.080	0.066	0.098	0.037	0.092	1.63
4	0.077	0.086	0.086	0.106	0.048	0.082	1.63
6	0.061	0.086	0.077	0.096	0.035	0.084	1.63
8	0.075	0.089	0.074	0.105	0.049	0.098	1.63
10	0.069	0.082	0.062	0.107	0.037	0.100	1.63
12	0.065	0.064	0.098	0.107	0.036	0.084	1.63
14	0.076	0.085	0.083	0.092	0.048	0.063	1.63
16	0.064	0.078	0.073	0.101	0.037	0.071	1.63
18	0.073	0.063	0.085	0.103	0.041	0.070	1.63
20	0.073	0.078	0.064	0.104	0.034	0.086	1.63

Test distance (cm)	Test Position A(μ T)	Test Position B(μ T)	Test Position C(μ T)	Test Position D(μ T)	Test Position E(μ T)	Test Position F(μ T)
2	0.081	0.100	0.083	0.123	0.047	0.115
4	0.096	0.108	0.108	0.132	0.060	0.102
6	0.076	0.107	0.096	0.120	0.044	0.105
8	0.094	0.111	0.093	0.132	0.061	0.123
10	0.086	0.103	0.077	0.134	0.046	0.125
12	0.081	0.081	0.122	0.134	0.045	0.105
14	0.095	0.106	0.104	0.115	0.060	0.079
16	0.081	0.098	0.091	0.126	0.046	0.088
18	0.091	0.079	0.106	0.129	0.051	0.088
20	0.091	0.098	0.080	0.131	0.043	0.107

Note: $A/m = \mu T / 1.25$

E-Filed Strength at (Distance from 0cm to 20cm and with 2-cm increments) 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)
2	0.757	0.749	0.602	0.697	0.771	0.757	614
4	0.518	0.886	0.580	0.851	0.779	0.518	614
6	0.689	0.404	0.675	0.381	0.946	0.689	614
8	0.555	0.434	0.495	0.824	0.401	0.555	614
10	0.697	0.772	0.847	0.771	0.677	0.697	614
12	0.937	0.602	0.483	0.660	0.913	0.937	614
14	0.534	0.470	0.592	0.937	0.612	0.088	614
16	0.599	0.933	0.706	0.901	0.435	0.086	614
18	0.731	0.822	0.508	0.507	0.505	0.099	614
20	0.898	0.700	0.365	0.388	0.740	0.898	614



99% battery

H-Filed Strength at (Distance from 0cm to 20cm and with 2-cm increments) 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)
2	0.078	0.075	0.081	0.109	0.042	0.069	1.63
4	0.066	0.086	0.076	0.106	0.032	0.098	1.63
6	0.067	0.077	0.066	0.091	0.039	0.093	1.63
8	0.063	0.082	0.063	0.095	0.033	0.061	1.63
10	0.070	0.067	0.099	0.107	0.037	0.075	1.63
12	0.070	0.082	0.065	0.093	0.030	0.093	1.63
14	0.078	0.076	0.076	0.105	0.043	0.090	1.63
16	0.077	0.080	0.097	0.101	0.037	0.090	1.63
18	0.061	0.085	0.076	0.095	0.043	0.092	1.63
20	0.076	0.079	0.077	0.096	0.046	0.065	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)
2	0.098	0.094	0.101	0.136	0.053	0.086
4	0.083	0.108	0.095	0.132	0.040	0.122
6	0.084	0.097	0.083	0.113	0.049	0.116
8	0.078	0.103	0.079	0.119	0.041	0.076
10	0.088	0.084	0.124	0.133	0.046	0.093
12	0.088	0.102	0.081	0.117	0.038	0.117
14	0.098	0.095	0.095	0.132	0.054	0.113
16	0.096	0.100	0.121	0.126	0.046	0.113
18	0.076	0.107	0.095	0.119	0.054	0.114
20	0.095	0.098	0.096	0.120	0.058	0.082

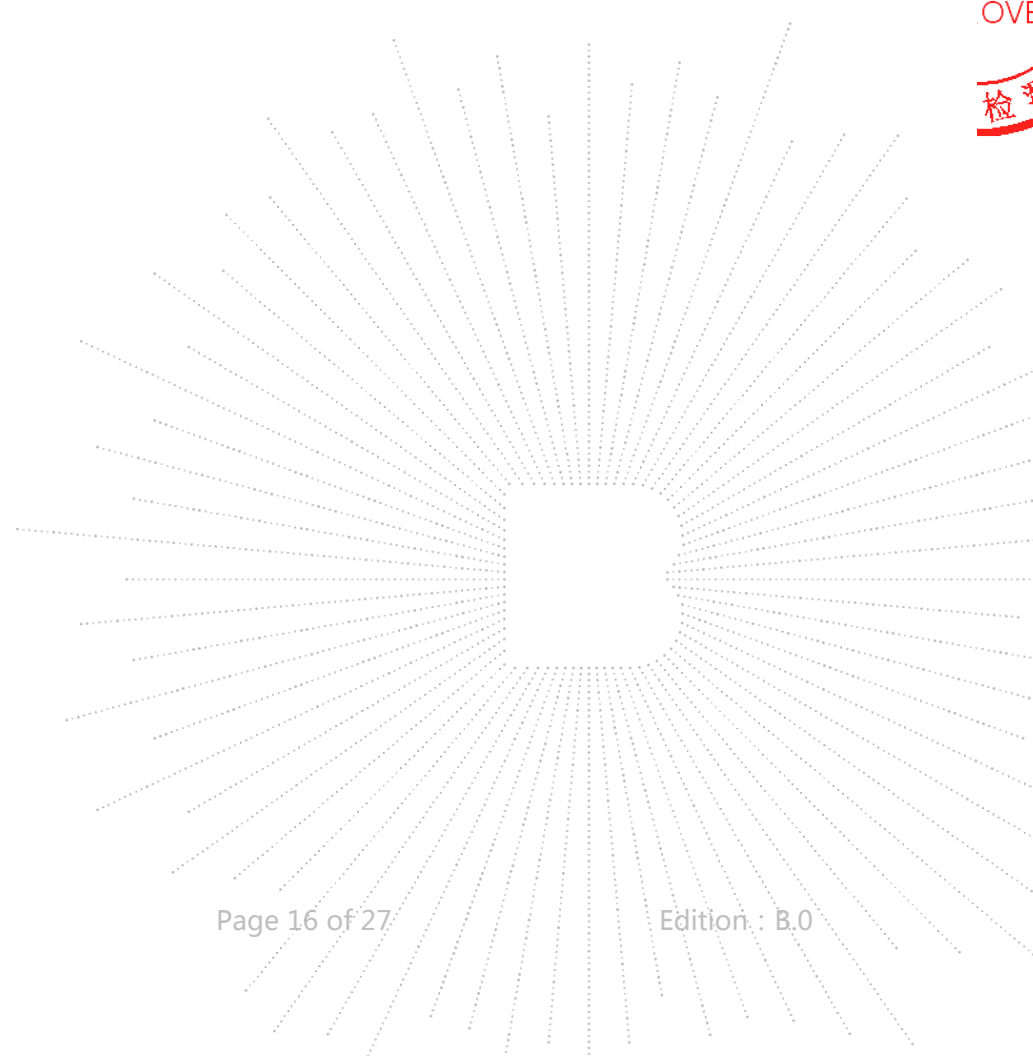
Note: A/m=uT/1.25

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E-Filed Strength at (Distance from 0cm to 20cm and with 2-cm increments) 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)
2	0.645	0.777	0.566	0.648	0.414	0.645	614
4	0.948	0.520	0.824	0.388	0.812	0.948	614
6	0.758	0.686	0.913	0.774	0.650	0.758	614
8	0.637	0.497	0.631	0.458	0.861	0.637	614
10	0.825	0.731	0.917	0.763	0.500	0.825	614
12	0.438	0.866	0.717	0.530	0.661	0.438	614
14	0.427	0.692	0.950	0.893	0.606	0.427	614
16	0.523	0.405	0.739	0.565	0.378	0.523	614
18	0.484	0.587	0.848	0.852	0.905	0.484	614
20	0.404	0.673	0.786	0.522	0.922	0.404	614

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AC Mode
 Worst Case Operating Mode: Mode 7

E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

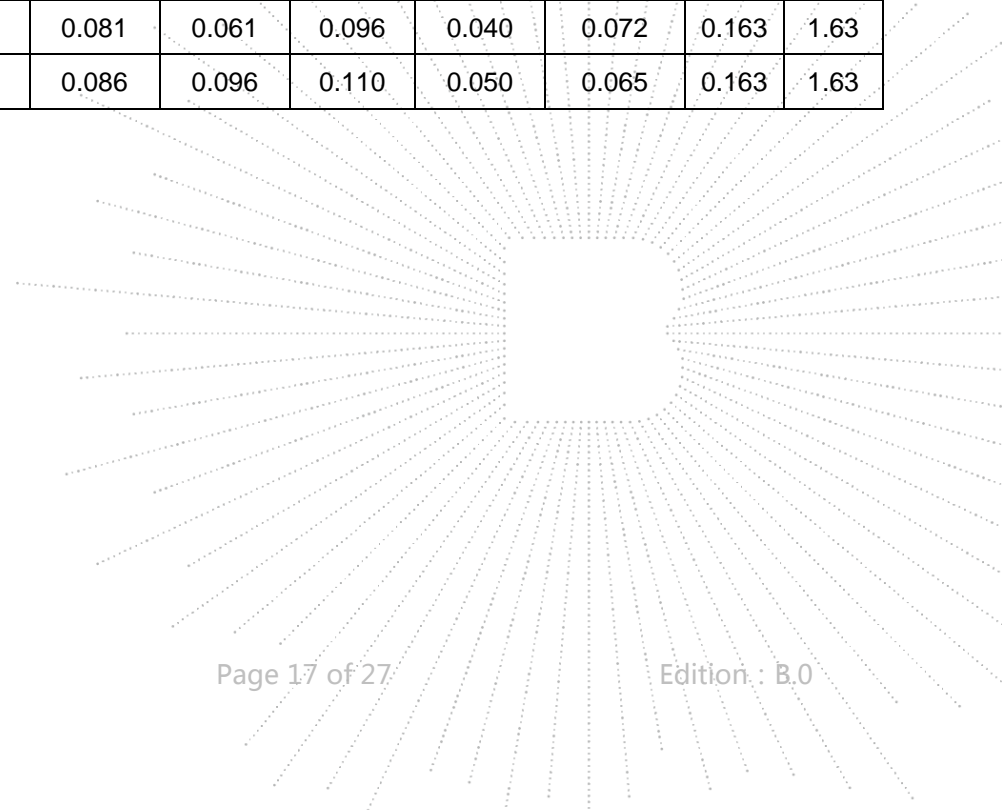
Battery level	Frequency Range (KHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position Top	10% Limits Test (V/m)	Limits Test (V/m)
1%	115-360	0.432	0.927	0.502	0.869	0.836	0.432	61.4	614
50%	115360	0.366	0.455	0.730	0.475	0.941	0.366	61.4	614
99%	115-360	0.712	0.927	0.911	0.436	0.426	0.712	61.4	614

H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Battery level	Frequency Range (KHz)	Test Position A(uT)	Test Position B(uT)	Test Position C(uT)	Test Position D(uT)	Test Position E(uT)	Test Position Top(uT)
1%	115-360	0.095	0.102	0.120	0.120	0.052	0.094
50%	115360	0.099	0.101	0.076	0.120	0.050	0.090
99%	115-360	0.087	0.107	0.120	0.137	0.062	0.081

Battery level	Frequency Range (KHz)	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%	115-360	0.076	0.082	0.096	0.096	0.042	0.075	0.163	1.63
50%	115360	0.079	0.081	0.061	0.096	0.040	0.072	0.163	1.63
99%	115-360	0.070	0.086	0.096	0.110	0.050	0.065	0.163	1.63

Note: A/m = uT ÷ 1.25

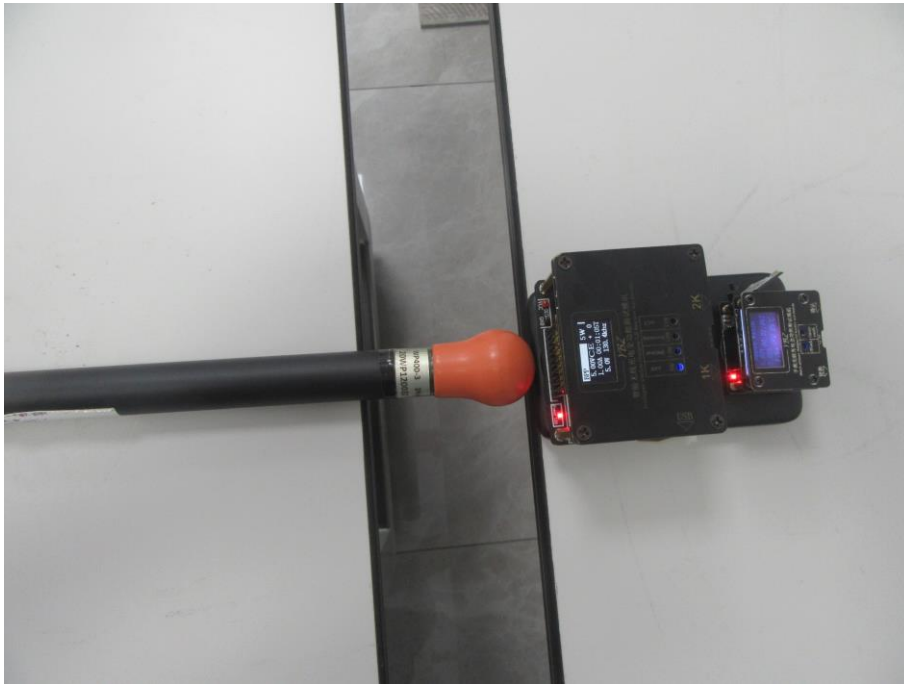


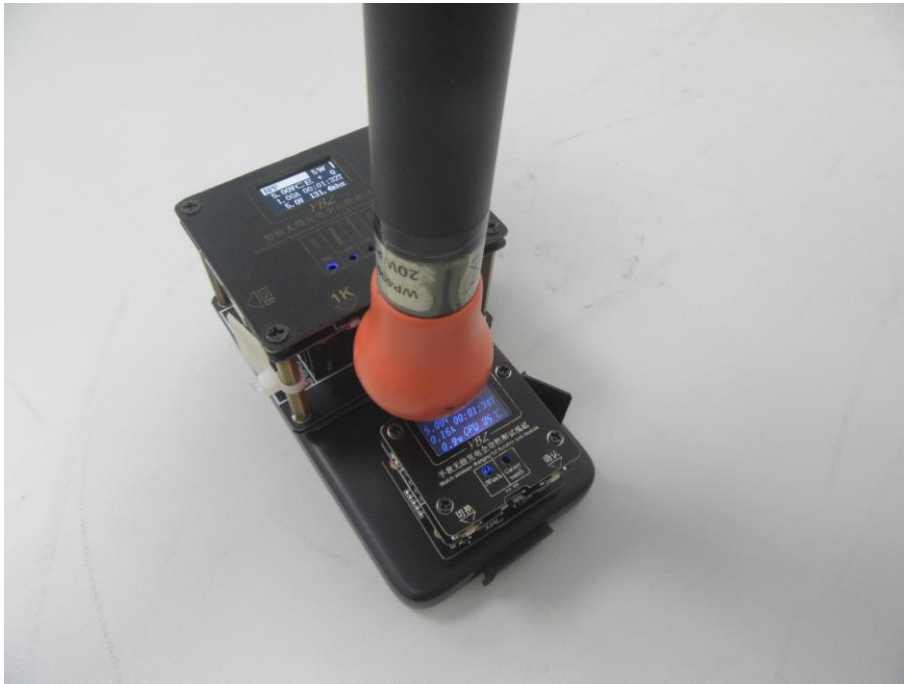
5. Photographs Of Test Set-Up

OCM

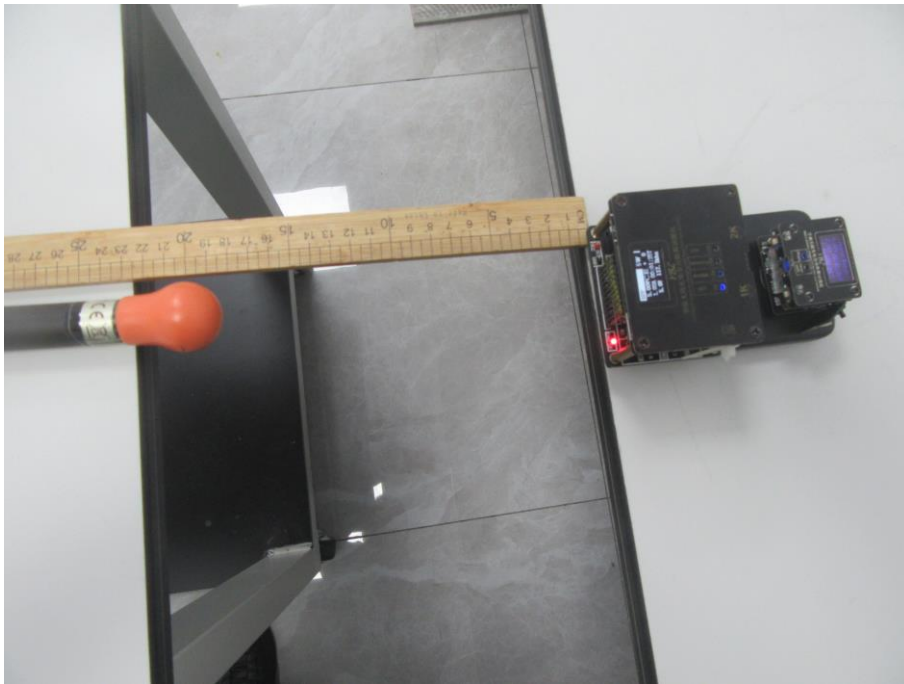
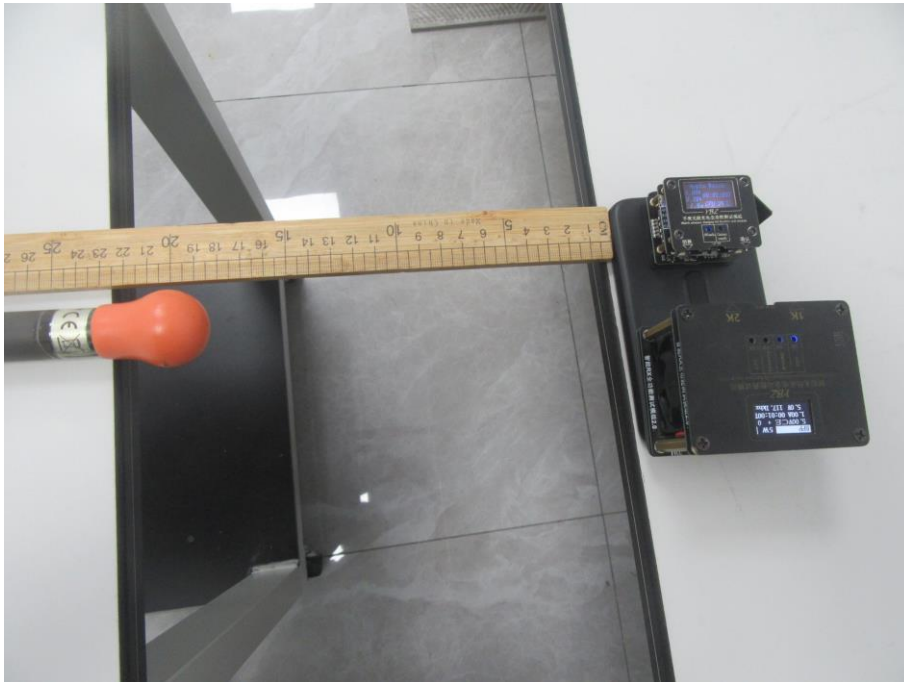


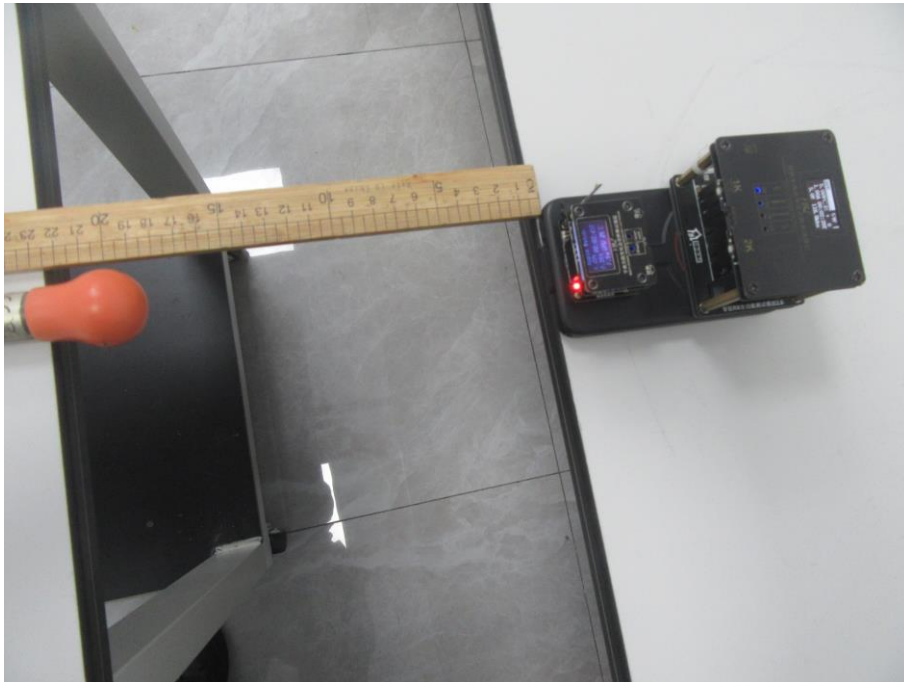
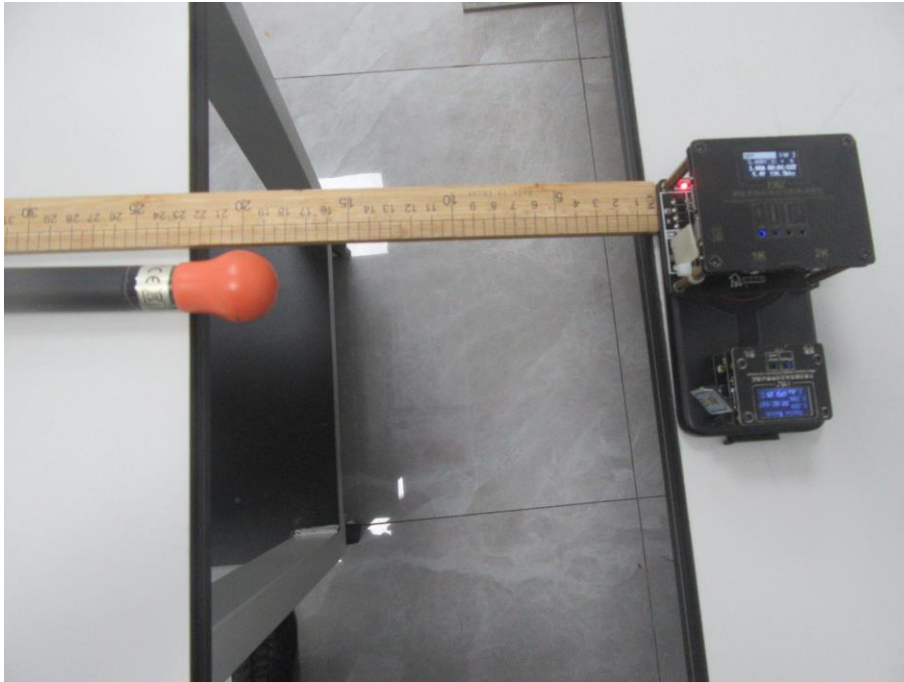
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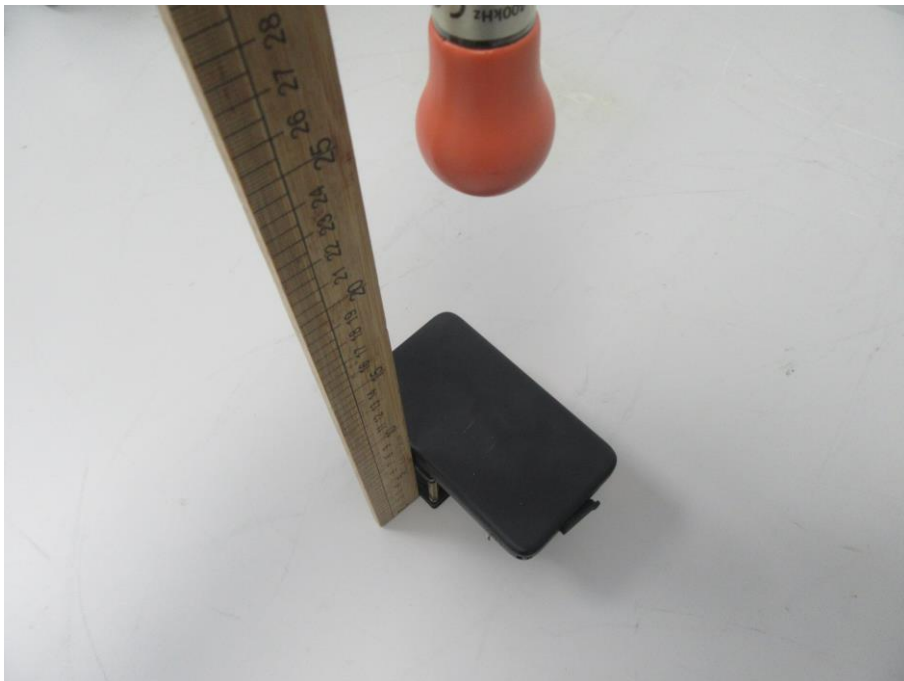


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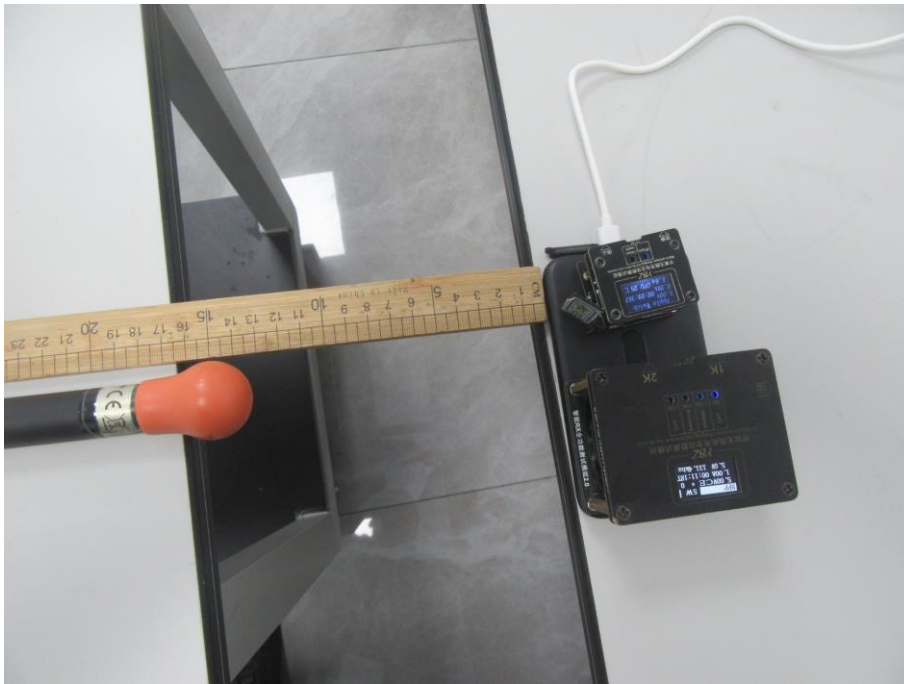


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STATEMENT

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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