

TEST REPORT

Report No.: BCTC2308808493-2E

Applicant: Ugreen Group Limited

Product Name: 5000mAh Magnetic Wireless Power Bank

Model/Type
reference: PB560

Tested Date: 2023-08-09 to 2023-08-17

Issued Date: 2023-08-17

Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2AQI5-PB560

Product Name: 5000mAh Magnetic Wireless Power Bank

Trademark: **UGREEN**

Model/Type Ref.: PB560
25207, 25866, 25207P, 25207X, 25207A, 25207B, 25207U, 25207JP, 25207ZD,
25866P, 25866X, 25866A, 25866B, 25866U, 25866JP, 25866ZD

Prepared For: Ugreen Group Limited

Address: Ugreen Building, Longcheng Industrial Park, Longguanxi Road, Longhua,
ShenZhen, China

Manufacturer: Ugreen Group Limited

Address: Ugreen Building, Longcheng Industrial Park, Longguanxi Road, Longhua,
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: 2023-08-09

Sample tested Date: 2023-08-09 to 2023-08-17

Issue Date: 2023-08-17

Report No.: BCTC2308808493-2E

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

Test Results: PASS

Tested by:



Brave Zeng/ Project Handler

Approved by:



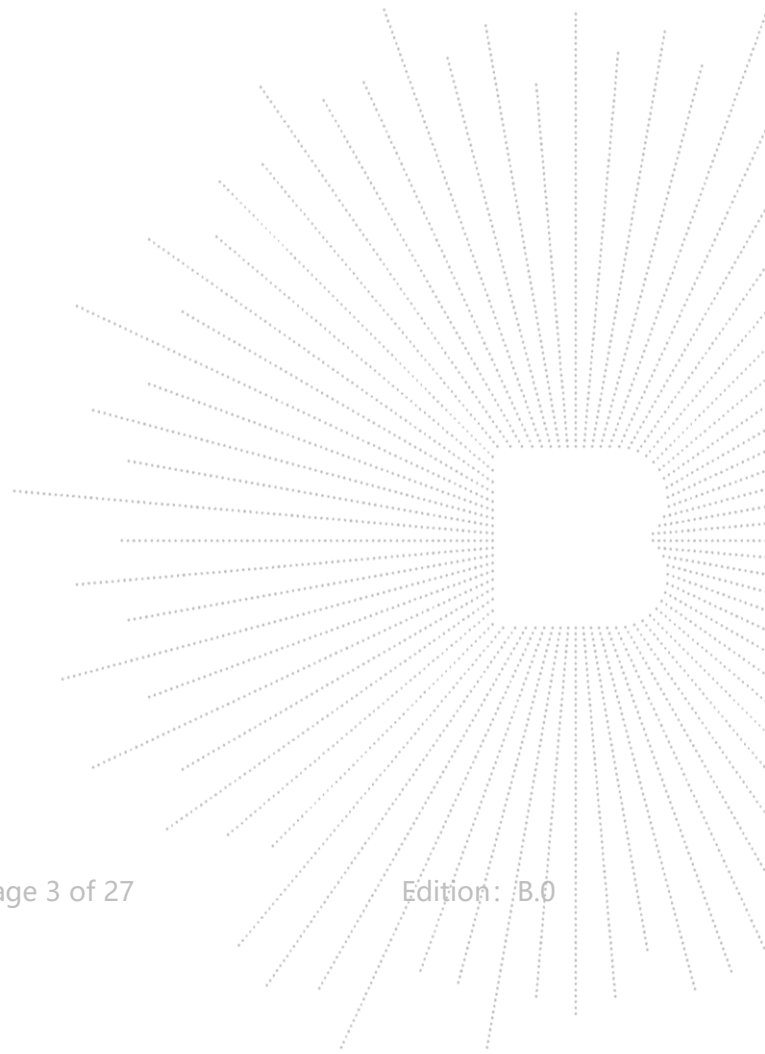
Zero Zhou/Reviewer

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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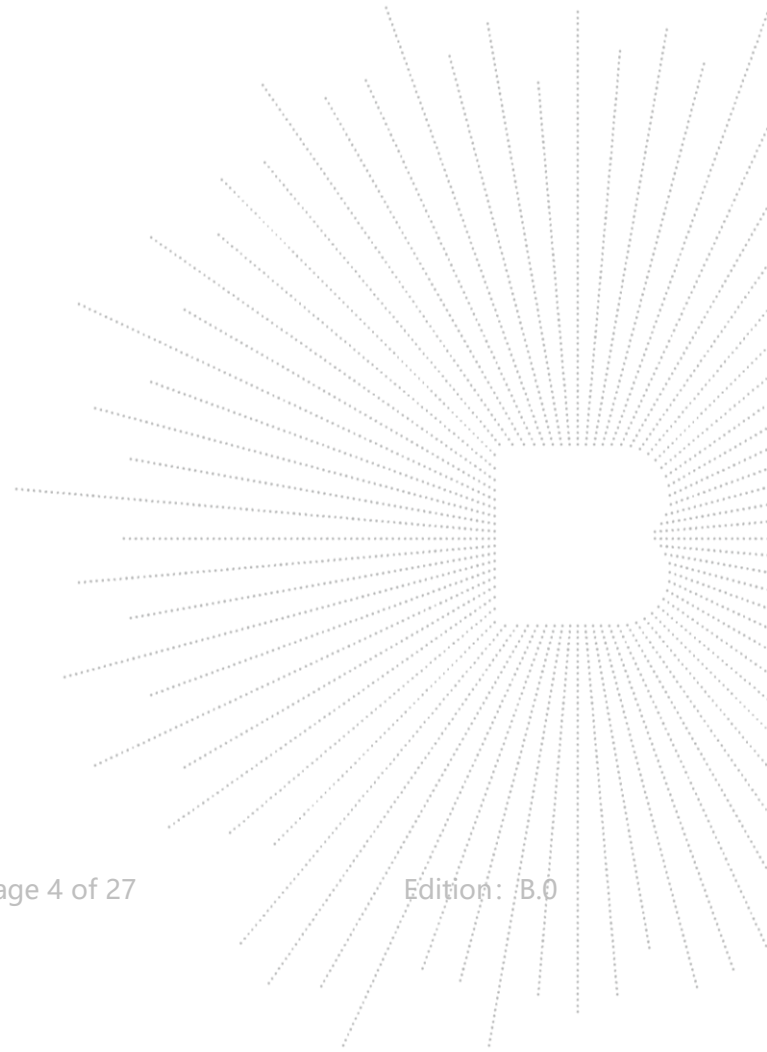
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(Note: N/A Means Not Applicable)



1. Version

Report No.	Issue Date	Description	Approved
BCTC2308808493-2E	2023-08-17	Original	Valid



2. Product Information

2.1 Product Information

Model/Type reference:	PB560 25207, 25866, 25207P, 25207X, 25207A, 25207B, 25207U, 25207JP, 25207ZD, 25866P, 25866X, 25866A, 25866B, 25866U, 25866JP, 25866ZD
Model differences:	All the model are the same circuit and RF module, except model names.
Hardware Version:	N/A
Software Version:	N/A
Product Description:	5000mAh Magnetic Wireless Power Bank
Operation Frequency:	112kHz-205kHz
Antenna installation:	loop coil antenna
Ratings:	USB-C(IN): 5V=3A, 9V=1.67A USB-C(OUT): 5V=3A, 9V=1.67A Wireless Output: 5W, 7.5W Total Output: DC 5V=3A Max

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.	Adapter	UGREEN	CD122	---	auxiliary
2.	Wireless charging load	---	---	--	auxiliary

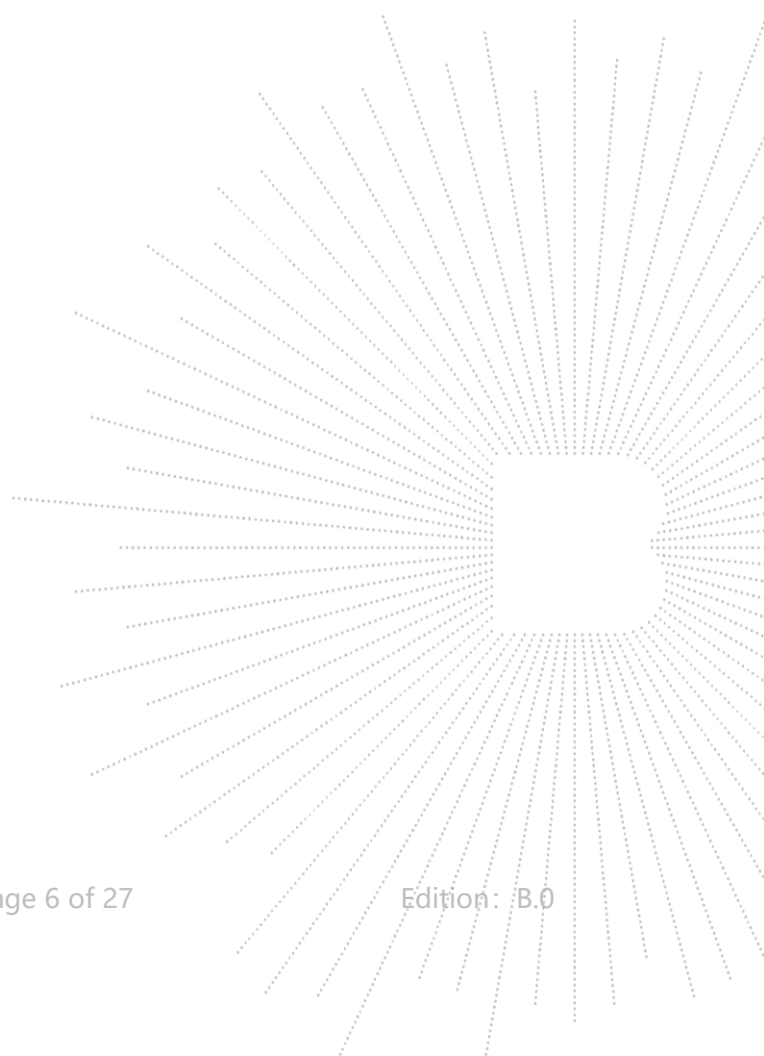
Notes:

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 Mode	Description	Remark
AC adapter Mode		
TM1	Wireless Charging	Fully Load
TM2	Wireless Charging	Empty Load
TM3	Wireless Charging	Half Load
Battery Mode		
TM4	Wireless Charging	Fully Load
TM5	Wireless Charging	Empty Load
TM6	Wireless Charging	Half Load

Note: Reported data only reflect the worst mode full load



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	\	\

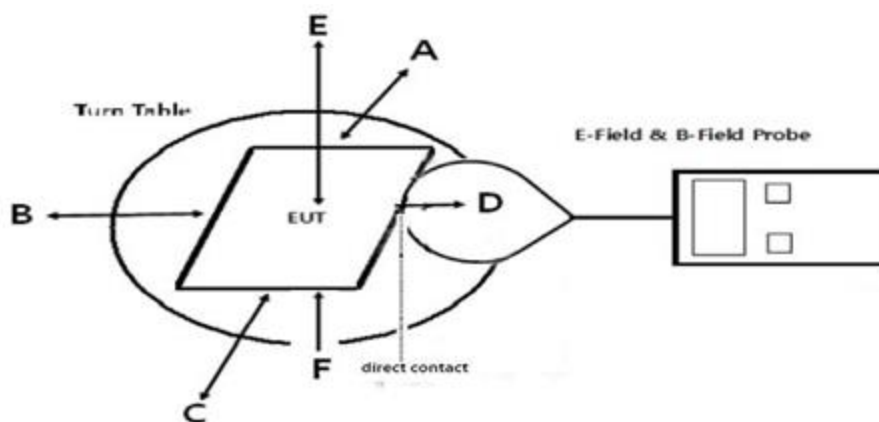
4. Method Of Measurement

4.1 Applicable Standard

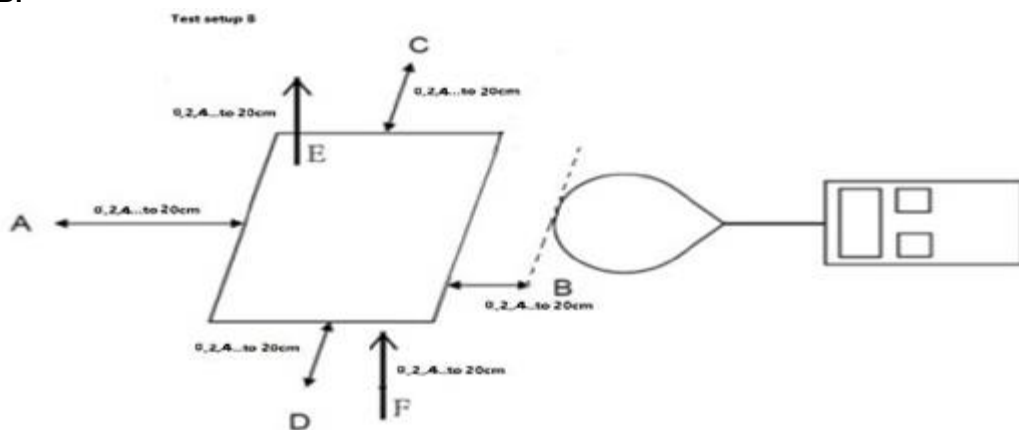
According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. According to §1.1310 and §2.1093 RF exposure is calculated. According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

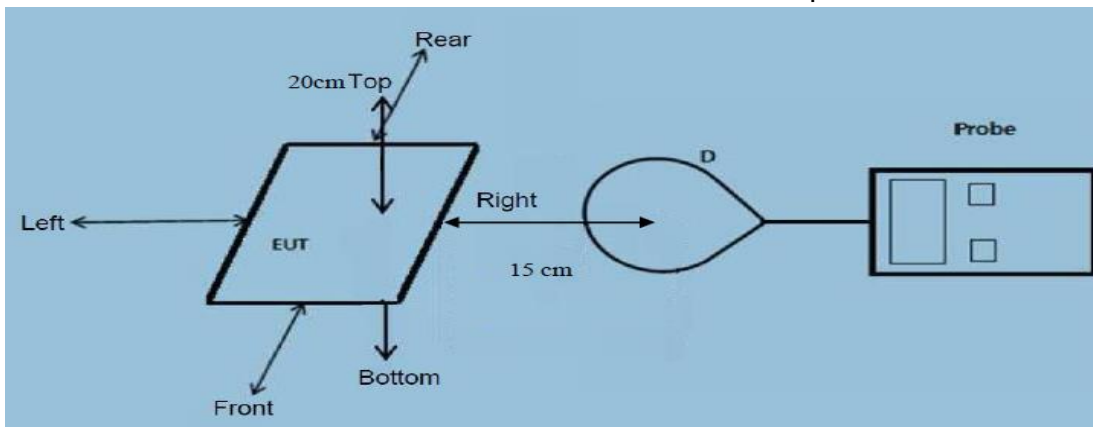
4.2 Block Diagram Of Test Setup

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 in anechoic chamber.
- 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 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 7.5W.

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)
112kHz-205kHz	1% battery	0.068	0.071	0.089	0.094	0.032	0.098	1.63
112kHz-205kHz	50% battery	0.071	0.061	0.090	0.101	0.049	0.066	1.63
112kHz-205kHz	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)
112kHz-205kHz	1% battery	0.084	0.089	0.111	0.118	0.040	0.123
112kHz-205kHz	50% battery	0.088	0.077	0.112	0.126	0.061	0.083
112kHz-205kHz	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)
112kHz-205kHz	1% battery	0.081	0.083	0.084	0.113	0.042	0.094	614
112kHz-205kHz	50% battery	0.097	0.093	0.077	0.118	0.042	0.123	614
112kHz-205kHz	99% battery	0.098	0.100	0.092	0.119	0.061	0.090	614

For setup B:
Worst Case Operating Mode: Mode 4

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	0.072	0.072	0.092	0.092	0.044	0.076	1.63
4	0.075	0.077	0.066	0.098	0.034	0.066	1.63
6	0.079	0.078	0.070	0.095	0.047	0.066	1.63
8	0.078	0.078	0.065	0.090	0.035	0.077	1.63
10	0.068	0.086	0.071	0.102	0.041	0.071	1.63
12	0.068	0.067	0.079	0.110	0.044	0.089	1.63
14	0.065	0.090	0.065	0.109	0.041	0.071	1.63
16	0.073	0.060	0.072	0.110	0.034	0.061	1.63
18	0.061	0.069	0.085	0.097	0.048	0.099	1.63
20	0.072	0.070	0.095	0.105	0.042	0.069	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	0.089	0.090	0.114	0.115	0.055	0.096
4	0.093	0.096	0.082	0.123	0.043	0.083
6	0.099	0.097	0.088	0.119	0.059	0.082
8	0.097	0.098	0.082	0.113	0.044	0.096
10	0.085	0.108	0.089	0.127	0.052	0.088
12	0.086	0.084	0.098	0.137	0.055	0.111
14	0.081	0.112	0.081	0.136	0.051	0.089
16	0.092	0.075	0.091	0.137	0.042	0.077
18	0.076	0.087	0.107	0.121	0.060	0.123
20	0.090	0.087	0.119	0.131	0.053	0.087

Note: A/m=uT/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	0.091	0.109	0.123	0.134	0.060	0.097	614
4	0.088	0.107	0.090	0.113	0.038	0.113	614
6	0.078	0.100	0.107	0.137	0.061	0.092	614
8	0.090	0.087	0.108	0.129	0.048	0.111	614
10	0.093	0.102	0.075	0.121	0.054	0.093	614
12	0.098	0.086	0.107	0.121	0.038	0.115	1.63
14	0.077	0.099	0.093	0.122	0.053	0.107	614
16	0.076	0.078	0.091	0.130	0.054	0.077	614
18	0.095	0.101	0.103	0.122	0.044	0.083	614
20	0.090	0.100	0.093	0.121	0.058	0.121	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	0.078	0.081	0.097	0.103	0.045	0.074	1.63
4	0.066	0.081	0.066	0.100	0.036	0.061	1.63
6	0.076	0.081	0.076	0.102	0.042	0.069	1.63
8	0.065	0.082	0.096	0.093	0.044	0.086	1.63
10	0.071	0.071	0.068	0.095	0.049	0.067	1.63
12	0.075	0.085	0.077	0.097	0.032	0.079	1.63
14	0.061	0.087	0.099	0.109	0.031	0.070	1.63
16	0.067	0.083	0.088	0.108	0.037	0.065	1.63
18	0.073	0.080	0.090	0.108	0.033	0.092	1.63
20	0.077	0.061	0.079	0.102	0.036	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)
2	0.098	0.101	0.121	0.129	0.056	0.093
4	0.082	0.101	0.082	0.125	0.045	0.076
6	0.095	0.101	0.095	0.128	0.052	0.087
8	0.081	0.103	0.120	0.117	0.055	0.108
10	0.088	0.088	0.085	0.119	0.062	0.083
12	0.094	0.107	0.096	0.122	0.040	0.099
14	0.076	0.109	0.124	0.136	0.039	0.087
16	0.083	0.104	0.110	0.135	0.046	0.082
18	0.091	0.101	0.112	0.135	0.041	0.115
20	0.097	0.076	0.098	0.127	0.045	0.078

Note: $A/m = uT/1.25$

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	0.063	0.063	0.082	0.099	0.045	0.077	614
4	0.062	0.081	0.096	0.097	0.050	0.082	614
6	0.075	0.081	0.088	0.109	0.042	0.060	614
8	0.063	0.079	0.074	0.093	0.033	0.097	614
10	0.077	0.089	0.076	0.099	0.042	0.076	614
12	0.080	0.070	0.078	0.109	0.037	0.092	614
14	0.063	0.062	0.065	0.099	0.043	0.088	614
16	0.070	0.080	0.095	0.109	0.049	0.086	614
18	0.072	0.080	0.063	0.106	0.036	0.099	614
20	0.068	0.086	0.078	0.105	0.044	0.075	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	0.065	0.086	0.088	0.093	0.033	0.091	1.63
4	0.072	0.075	0.079	0.095	0.044	0.076	1.63
6	0.064	0.083	0.087	0.106	0.044	0.060	1.63
8	0.069	0.083	0.069	0.106	0.048	0.084	1.63
10	0.067	0.084	0.084	0.099	0.033	0.079	1.63
12	0.080	0.061	0.078	0.092	0.039	0.091	1.63
14	0.075	0.064	0.072	0.106	0.033	0.063	1.63
16	0.079	0.062	0.084	0.104	0.042	0.098	1.63
18	0.066	0.063	0.084	0.109	0.035	0.086	1.63
20	0.061	0.073	0.061	0.107	0.034	0.071	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	0.081	0.108	0.111	0.117	0.041	0.113
4	0.090	0.094	0.099	0.119	0.055	0.095
6	0.080	0.104	0.108	0.132	0.055	0.075
8	0.086	0.104	0.086	0.133	0.059	0.105
10	0.084	0.105	0.105	0.124	0.041	0.099
12	0.100	0.077	0.097	0.115	0.049	0.113
14	0.093	0.079	0.089	0.132	0.041	0.079
16	0.099	0.077	0.105	0.130	0.053	0.123
18	0.082	0.079	0.105	0.136	0.044	0.108
20	0.076	0.091	0.076	0.133	0.042	0.088

Note: $A/m = uT/1.25$

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	0.076	0.077	0.120	0.119	0.041	0.091	614
4	0.078	0.109	0.118	0.120	0.041	0.113	614
6	0.089	0.084	0.099	0.135	0.040	0.112	614
8	0.094	0.088	0.109	0.127	0.039	0.099	614
10	0.076	0.090	0.099	0.136	0.040	0.122	614
12	0.100	0.097	0.090	0.134	0.051	0.120	614
14	0.093	0.079	0.116	0.125	0.049	0.098	614
16	0.078	0.111	0.082	0.133	0.047	0.102	614
18	0.081	0.077	0.090	0.114	0.057	0.102	614
20	0.096	0.101	0.089	0.133	0.045	0.086	614

AC Mode

Worst Case Operating Mode: Mode 1

E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of 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%	0.112-0.205	0.067	0.075	0.094	0.106	0.040	0.068	61.4	614
50%	0.112-0.205	0.070	0.072	0.062	0.099	0.043	0.080	61.4	614
99%	0.112-0.205	0.063	0.063	0.072	0.093	0.045	0.063	61.4	614

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

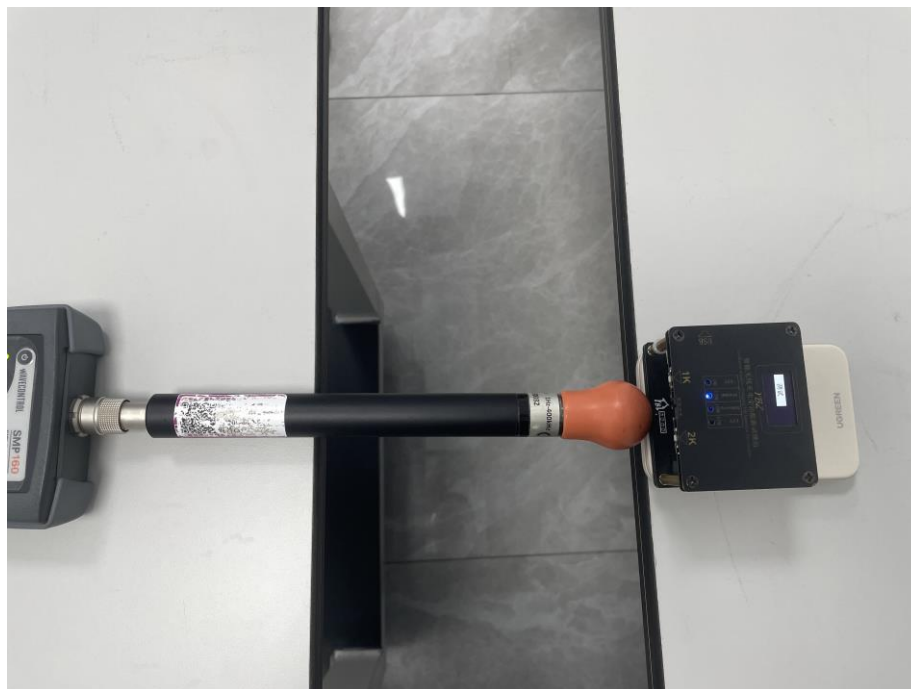
Battery level	Frequency Range (MHz)	Test Position A(uT)	Test Position B(uT)	Test Position C(uT)	Test Position D(uT)	Test Position E(uT)	Test Position Top(uT)	10% Limits Test (uT)
1%	0.112-0.205	0.083	0.077	0.103	0.120	0.056	0.112	0.20375
50%	0.112-0.205	0.079	0.100	0.116	0.114	0.051	0.076	0.20375
99%	0.112-0.205	0.099	0.096	0.096	0.131	0.044	0.084	0.20375

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%	0.112-0.205	0.066	0.062	0.083	0.096	0.045	0.090	0.163	1.63
50%	0.112-0.205	0.063	0.080	0.093	0.092	0.041	0.061	0.163	1.63
99%	0.112-0.205	0.080	0.077	0.077	0.105	0.035	0.067	0.163	1.63

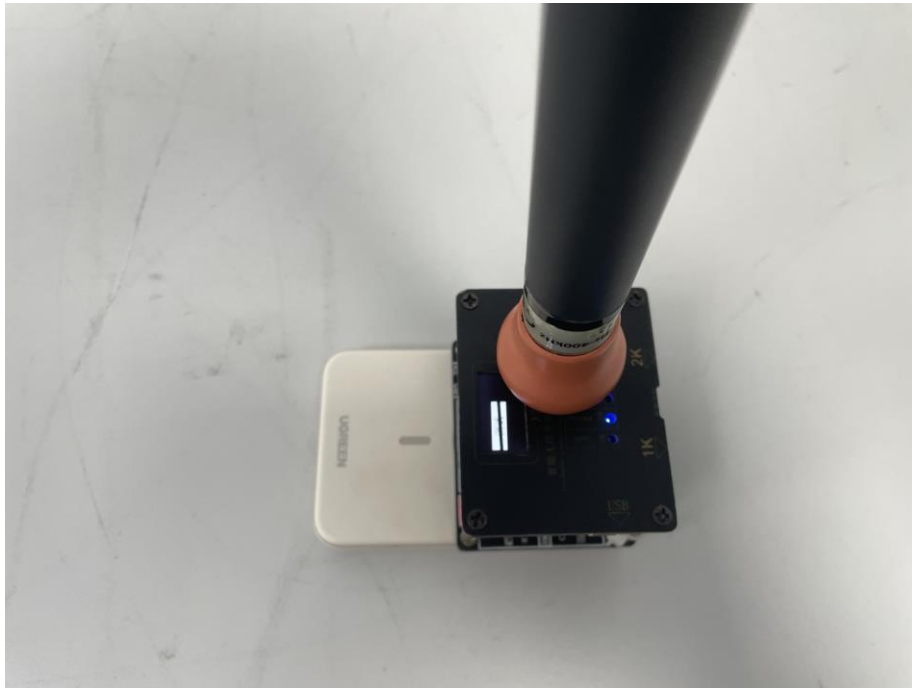
Note: A/m = uT ÷ 1.25

5. Photographs Of Test Set-Up

0CM

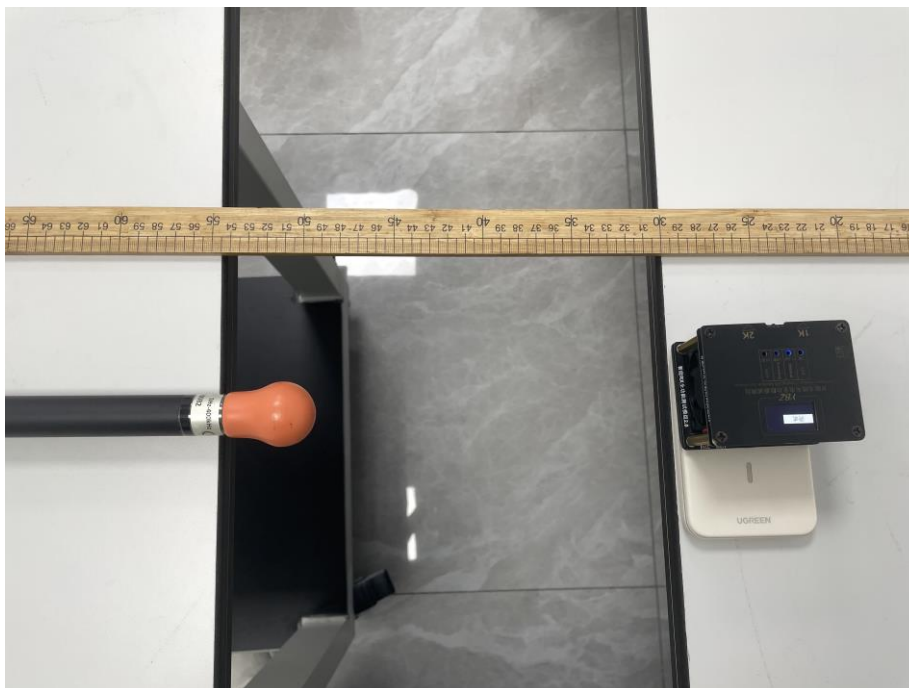


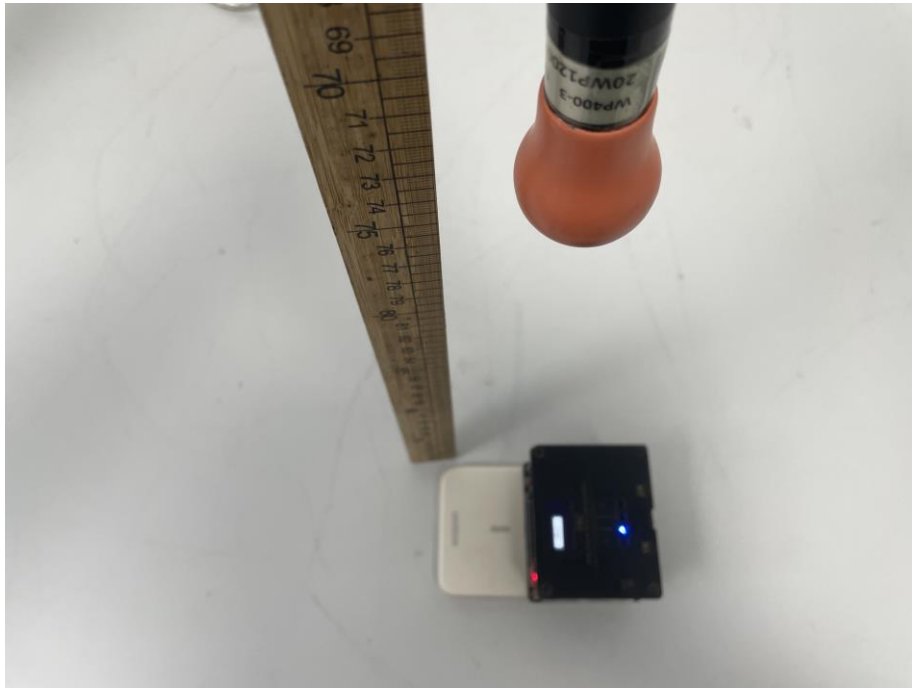




20CM



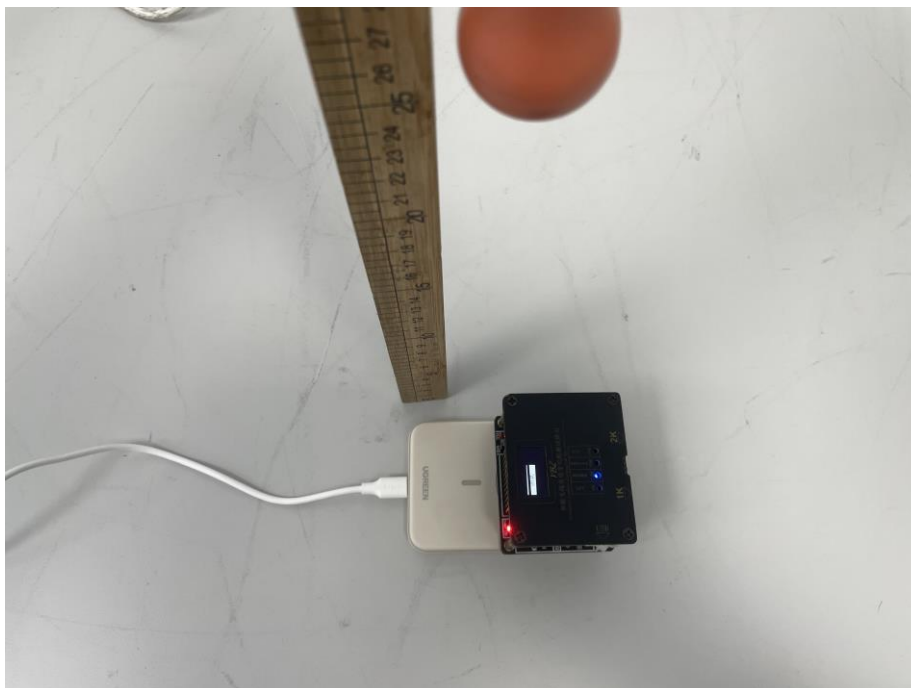




AC Mode







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 *******