

Health Test Report

For

Applicant name: LIMITLESS INNOVATIONS, INC.
Address: 265 Exchange Dr, Crystal Lake, IL 60014
EUT name: Limitless Ultra Slim 5,000mAh Magnetic Wireless Power Bank
Brand name: LIMITLESS
Model number: LIM-5KMSPB-M001
Series model number: LIM-5KMSPB-M082, LIM-5KMSPB-M109, LIM-5KMSPB-M110, LIM-5KMSPB-M121, LIM-5KMSPB-M006, LIM-5KMSPB-M015, LIM-5KMSPB-M083, LIM-5KMSPB-M092, LIM-5KMSPB-M005
FCC ID: 2BWLC-LIM-5KMSPB

Issued By

Company name: BTF Testing Lab (Shenzhen) Co., Ltd.
Address: Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Report number: BTF260427R00402
Test standards: 47 CFR Part 1 Subpart I Section 1.1310
Test conclusion: Pass
Date of sample receipt: 2026-04-27
Test date: 2026-04-28 to 2026-06-10
Date of issue: 2026-06-11

Prepared by:



Chris Liu/Project engineer

Approved by:



Ryan.CJ /EMC manager

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Revision History		
Version	Issue date	Revisions content
R_V0	2026-06-11	Original

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1 Introduction

1.1 Laboratory Location

Test location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Phone number:	+86-0755-23146130
Fax number:	+86-0755-23146130

1.2 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1409**
BTF Testing Lab (Shenzhen) Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 695374.
- **ISED – CAB identifier.: CN0135**
The 3m Semi-anechoic chamber of BTF Testing Lab (Shenzhen) Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 27844.
- **CNAS - Registration No.: CNAS L17568**
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L17568.
- **A2LA - Registration No.: 6660.01**
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

1.3 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.
- (7) All entrusted information in this report is provided by the client and has been confirmed through consultation with the client; The testing items for this report have been discussed and confirmed with the client, and our company is only responsible for the content reflected in the report.

2 Product Information

2.1 Application Information

Company name:	LIMITLESS INNOVATIONS, INC.
Address:	265 Exchange Dr, Crystal Lake, IL 60014

2.2 Manufacturer Information

Company name:	SHENZHEN CHIFROG TECHNOLOGY CO., LTD
Address:	402, BLD B, Bafang Industrial Park, 13 Lingxia Rd, Fenghuang, Fuyong, Bao'An District, Shenzhen, China, PostCode: 518103

2.3 Factory Information

Company name:	SHENZHEN CHIFROG TECHNOLOGY CO., LTD
Address:	402, BLD B, Bafang Industrial Park, 13 Lingxia Rd, Fenghuang, Fuyong, Bao'An District, Shenzhen, China, PostCode: 518103

2.4 General Description of Equipment under Test (EUT)

EUT name	Limitless Ultra Slim 5,000mAh Magnetic Wireless Power Bank
Under test model name	LIM-5KMSPB-M001
Series model name	LIM-5KMSPB-M082,LIM-5KMSPB-M109,LIM-5KMSPB-M110,LIM-5KMSPB-M121,LIM-5KMSPB-M006,LIM-5KMSPB-M015,LIM-5KMSPB-M083,LIM-5KMSPB-M092,LIM-5KMSPB-M005
Description of model name differentiation	Only the model name is different, everything else is the same
Hardware Version	N/A
Software Version	N/A
Rating:	Battery Capacity: 3.85V 5000mAh 19.25Wh Type-C Input: 5V=3A, 9V=2A, 12V=1.5A PD 18W Type-C Output: 5V=3A, 9V=2.22A, 12V=1.67A PD 20W Type-C Built-in Cable Output: 5V=3A, 9V=2.22A, 12V=1.67A PD 20W Type-C to Lightning Adapter Output: 5V=2.4A 12W Wireless Charging Output: 15W 7.5W 5W

2.5 Technical Information

Operation frequency:	110.3kHz ~ 205kHz
Modulation technology:	ASK
Antenna type:	Coil Antenna

3 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Electric and Magnetic Field Analyzer	Narda	EHP-200A	180ZX11001	2025/11/21	2026/11/20

4 Applied Reference Documents

Identity	Document Title
47 CFR Part 1 Subpart I Section 1.1310	Radiofrequency radiation exposure limits.

5 Test Auxiliary Equipment

Description	Manufacturer	Model	Serial No.	Length	Description
Phone	HONOR	PGT-AN10	/	/	/

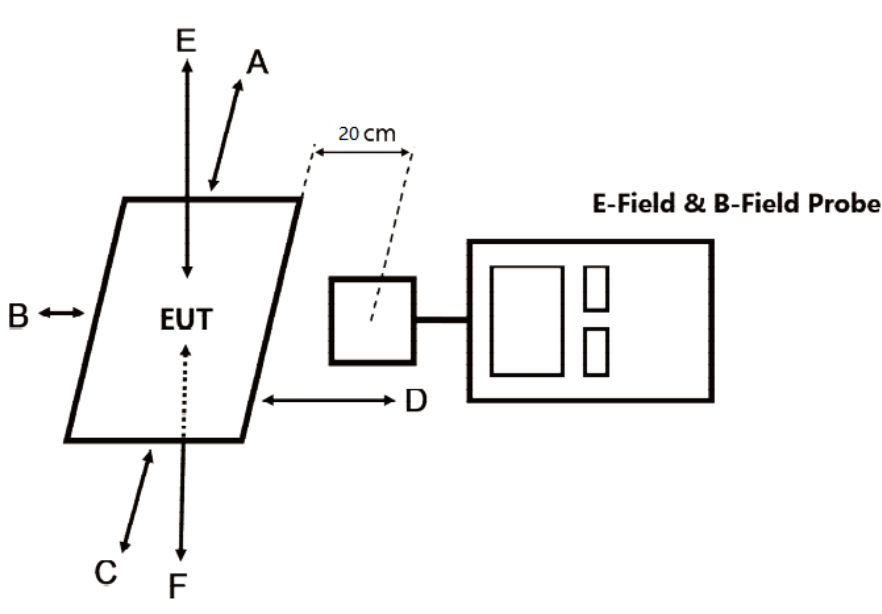
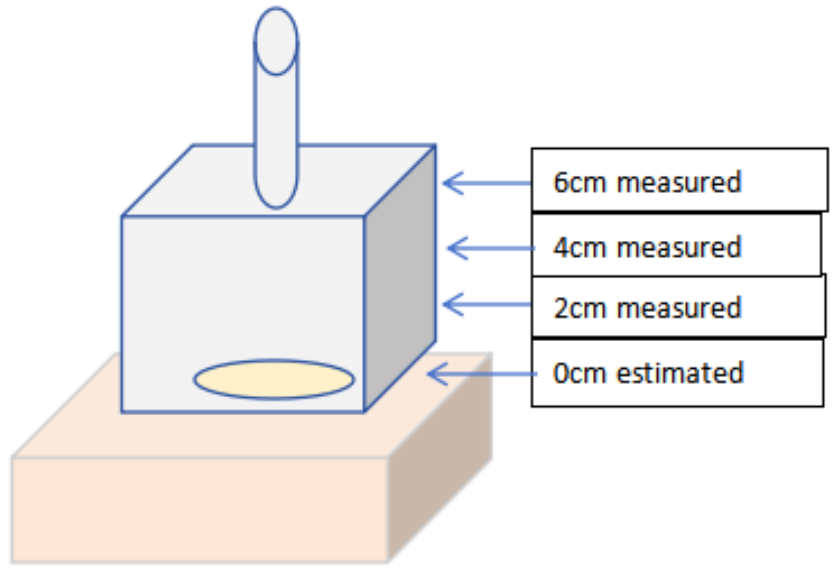
6 Test Requirement

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

7 Test Settings

Test Setup


Note1: The sensitive elements are located approximately 8mm below the exxternal surface Note2: Measurements should be made from all sides and the top of the primary/client pair, with the 0/2/4/6/8/10/12/14/16/18/20cm measured from the center of the probe(s) to the edge of the device. The RF exposure test was performed in anechoic chamber. The measurement probe was placed at test distance (0/2/4/6/8/10/12/14/16/18/20cm) which is between the edge of the charger and the geometric center of probe. The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E, F) were completed. The EUT was measured according to the dictates of KDB 680106 D01 v04.

8 Exposure Assessment

8.1 E-Field Strength Test Date

➤ E-Field Strength at 2/4/6/8/10/12/14/16/18/20cm from the edges surrounding the EUT:

Charging Battery Level	Measured E-Field Strength Values (V/m)							FCC E-Field Strength Limits (V/m)
	Measured Distance (cm)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	
99%	2	4.4337	4.8641	4.4280	4.5595	7.4649	7.3266	614
50%	2	4.3232	5.1224	4.7539	4.7647	7.8572	7.4976	614
1%	2	4.6338	5.1262	4.6252	4.4574	7.6876	7.6233	614
99%	4	4.0233	4.5466	4.1362	4.2206	7.2844	6.9464	614
50%	4	3.9118	4.7459	4.3095	4.2499	7.4945	7.1187	614
1%	4	4.2242	4.8790	4.3960	4.2537	7.5904	7.2893	614
99%	6	3.6627	4.4061	3.9517	3.9495	7.1462	6.7796	614
50%	6	3.7849	4.5452	4.1061	3.9960	7.3900	6.9507	614
1%	6	4.0120	4.7054	4.2146	4.1158	7.5208	7.1773	614
99%	8	3.5162	4.3569	3.8295	3.8294	7.0615	6.6655	614
50%	8	3.7046	4.4694	3.9785	3.9422	7.2879	6.8550	614
1%	8	3.8938	4.6204	4.0937	4.0540	7.5141	7.0814	614
99%	10	2.7631	3.7156	3.3002	3.2643	6.0801	5.7243	614
50%	10	2.9142	3.8656	3.4140	3.3766	6.3068	5.9112	614
1%	10	3.0646	3.9794	3.5285	3.4896	6.4970	6.1007	614
99%	12	2.0830	3.2255	2.8488	2.8109	5.2513	4.9322	614
50%	12	2.1965	3.3011	2.9248	2.8875	5.4397	5.0838	614
1%	12	2.3476	3.4149	3.0375	2.9999	5.5908	5.2344	614
99%	14	1.4814	2.7732	2.4336	2.4339	4.5353	4.2167	614
50%	14	1.5933	2.8496	2.5092	2.5090	4.6866	4.3668	614
1%	14	1.7078	2.9247	2.5844	2.5855	4.8364	4.5174	614
99%	16	0.9909	2.3584	2.0954	2.0938	3.9329	3.6493	614
50%	16	1.0653	2.4337	2.1714	2.1337	4.0450	3.7630	614
1%	16	1.1785	2.5095	2.2456	2.2081	4.1599	3.8769	614
99%	18	0.5386	2.0189	1.7932	1.7922	3.4057	3.1229	614
50%	18	0.6511	2.0945	1.8689	1.8309	3.4799	3.2348	614
1%	18	0.7257	2.1703	1.9073	1.9047	3.5938	3.3106	614
99%	20	0.1616	1.7548	1.5292	1.5289	2.9515	2.6696	614
50%	20	0.2368	1.7920	1.6034	1.5672	3.0273	2.7831	614
1%	20	0.3117	1.8689	1.6422	1.5935	3.1037	2.8588	614

Note: V/m= A/m *377

8.2 H-Field Strength Test Date:

➤ H-Field Strength at 2/4/6 8/10/12/14/16/18/20cm from the edges surrounding the EUT

Charging Battery Level	Measured E-Field Strength Values (V/m)								FCC H-Field Strength Limits (A/m)
	Measured Distance (cm)	Unit	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	
99%	2	uT	0.0393	0.0426	0.0341	0.0295	0.0628	0.0687	--
99%	2	A/m	0.0385	0.0351	0.0308	0.0274	0.0594	0.0846	1.63
50%	2	uT	0.0470	0.0401	0.0326	0.0311	0.0624	0.0736	--
50%	2	A/m	0.0412	0.0361	0.0339	0.0305	0.0516	0.0784	1.63
1%	2	uT	0.0418	0.0420	0.0346	0.0369	0.0587	0.0690	--
1%	2	A/m	0.0375	0.0368	0.0348	0.0352	0.0564	0.0696	1.63
99%	4	uT	0.0300	0.0265	0.0218	0.0246	0.0366	0.0417	--
99%	4	A/m	0.025	0.0212	0.0174	0.0192	0.0301	0.0335	1.63
50%	4	uT	0.0352	0.0264	0.0231	0.0257	0.0386	0.0465	--
50%	4	A/m	0.0279	0.0207	0.0181	0.0208	0.0307	0.0387	1.63
1%	4	uT	0.0356	0.0291	0.0261	0.0256	0.0354	0.0443	--
1%	4	A/m	0.0287	0.0243	0.0207	0.0203	0.028	0.0367	1.63
99%	6	uT	0.0253	0.0222	0.0186	0.0178	0.0346	0.0439	--
99%	6	A/m	0.0202	0.0178	0.0149	0.0142	0.0277	0.0351	1.63
50%	6	uT	0.0263	0.0229	0.0181	0.0176	0.0339	0.0464	--
50%	6	A/m	0.0211	0.0183	0.0145	0.0141	0.0271	0.0371	1.63
1%	6	uT	0.0253	0.0219	0.0202	0.0226	0.0333	0.0437	--
1%	6	A/m	0.0202	0.0175	0.0162	0.0181	0.0266	0.0349	1.63
99%	8	uT	0.0227	0.0166	0.0136	0.0159	0.0275	0.0272	--
99%	8	A/m	0.0182	0.0133	0.0108	0.0127	0.0220	0.0217	1.63
50%	8	uT	0.0238	0.0175	0.0137	0.0160	0.0288	0.0260	--
50%	8	A/m	0.0191	0.0140	0.0109	0.0128	0.0231	0.0208	1.63
1%	8	uT	0.0231	0.0183	0.0155	0.0159	0.0280	0.0282	--
1%	8	A/m	0.0185	0.0147	0.0124	0.0127	0.0224	0.0225	1.63
99%	10	uT	0.0193	0.0145	0.0134	0.0133	0.0239	0.0237	--
99%	10	A/m	0.0155	0.0116	0.0107	0.0106	0.0191	0.0189	1.63
50%	10	uT	0.0209	0.0150	0.0116	0.0145	0.0252	0.0227	--
50%	10	A/m	0.0167	0.0120	0.0093	0.0116	0.0202	0.0182	1.63
1%	10	uT	0.0214	0.0151	0.0128	0.0139	0.0245	0.0238	--

1%	10	A/m	0.0171	0.0120	0.0102	0.0111	0.0196	0.0190	1.63
99%	12	uT	0.0167	0.0125	0.0110	0.0106	0.0215	0.0205	--
99%	12	A/m	0.0133	0.0100	0.0088	0.0085	0.0172	0.0164	1.63
50%	12	uT	0.0171	0.0133	0.0118	0.0110	0.0214	0.0197	--
50%	12	A/m	0.0136	0.0107	0.0094	0.0088	0.0171	0.0158	1.63
1%	12	uT	0.0183	0.0145	0.0115	0.0117	0.0230	0.0203	--
1%	12	A/m	0.0147	0.0116	0.0092	0.0093	0.0184	0.0162	1.63
99%	14	uT	0.0140	0.0117	0.0104	0.0096	0.0187	0.0179	--
99%	14	A/m	0.0112	0.0093	0.0083	0.0077	0.0150	0.0143	1.63
50%	14	uT	0.0168	0.0114	0.0101	0.0092	0.0183	0.0178	--
50%	14	A/m	0.0134	0.0091	0.0081	0.0074	0.0147	0.0142	1.63
1%	14	uT	0.0162	0.0124	0.0104	0.0117	0.0179	0.0178	--
1%	14	A/m	0.0130	0.0099	0.0083	0.0093	0.0143	0.0143	1.63
99%	16	uT	0.0134	0.0095	0.0089	0.0078	0.0153	0.0141	--
99%	16	A/m	0.0107	0.0076	0.0071	0.0062	0.0122	0.0113	1.63
50%	16	uT	0.0132	0.0103	0.0101	0.0097	0.0167	0.0160	--
50%	16	A/m	0.0105	0.0083	0.0081	0.0077	0.0133	0.0128	1.63
1%	16	uT	0.0142	0.0097	0.0103	0.0102	0.0166	0.0169	--
1%	16	A/m	0.0114	0.0078	0.0082	0.0082	0.0133	0.0135	1.63
99%	18	uT	0.0114	0.0081	0.0082	0.0093	0.0128	0.0129	--
99%	18	A/m	0.0091	0.0065	0.0066	0.0075	0.0102	0.0104	1.63
50%	18	uT	0.0116	0.0092	0.0090	0.0089	0.0138	0.0132	--
50%	18	A/m	0.0093	0.0074	0.0072	0.0071	0.0110	0.0105	1.63
1%	18	uT	0.0108	0.0088	0.0096	0.0085	0.0151	0.0137	--
1%	18	A/m	0.0086	0.0070	0.0077	0.0068	0.0121	0.0110	1.63
99%	20	uT	0.0104	0.0077	0.0059	0.0072	0.0105	0.0103	--
99%	20	A/m	0.0083	0.0062	0.0047	0.0058	0.0084	0.0082	1.63
50%	20	uT	0.0108	0.0095	0.0076	0.0074	0.0118	0.0124	--
50%	20	A/m	0.0086	0.0076	0.0061	0.0059	0.0095	0.0100	1.63
1%	20	uT	0.0097	0.0092	0.0069	0.0063	0.0126	0.0113	--
1%	20	A/m	0.0078	0.0073	0.0055	0.0051	0.0101	0.0091	1.63

Note: A/m=uT/1.25

8.3 Estimated Model

According to the formula:

The formula for the magnetic field strength at a distance r from the coil is

$$H = I / (2\pi r) * \mu$$

H is A/m

I is the current intensity

μ is the permeability, and its value depends on the medium.

The other parameters are fixed, so H is inversely proportional to r .

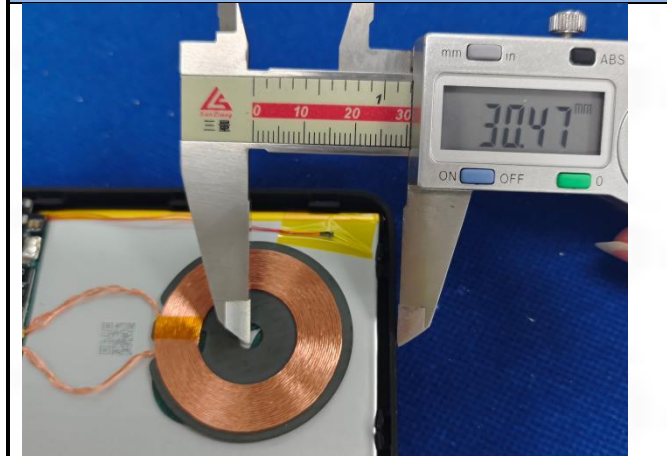
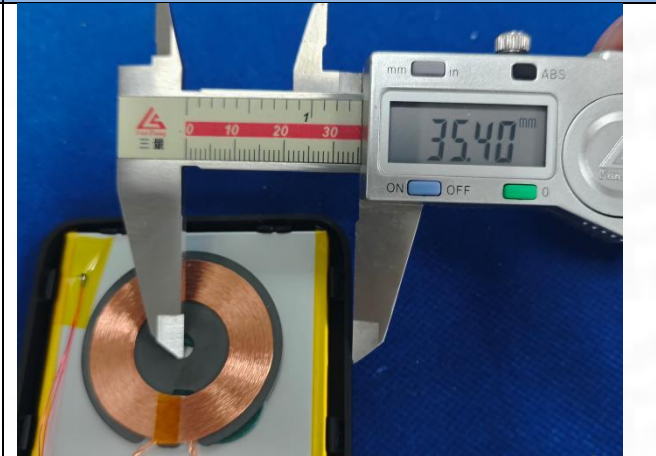
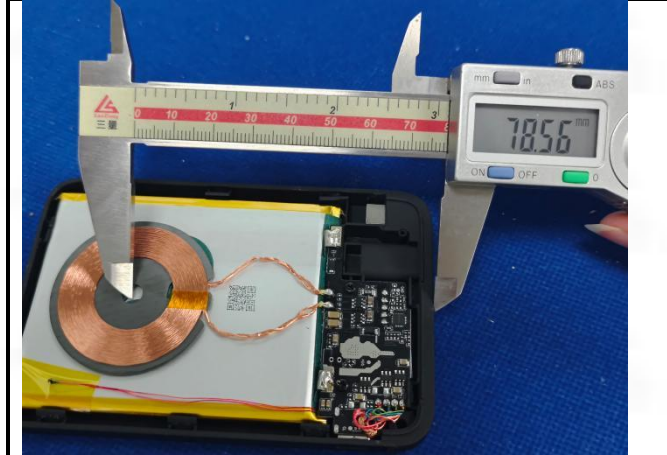
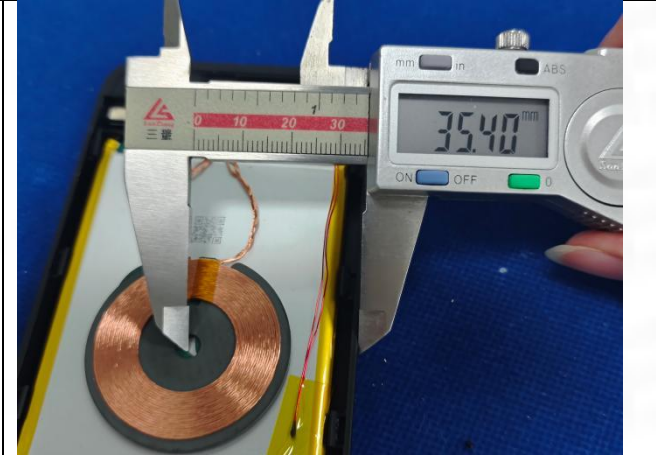
Therefore, From the measurement H_6 we can estimate the values of H_4, H_2, H_0 :

$$H_4 = H_6 * r_6 / r_4$$

$$H_2 = H_6 * r_6 / r_2$$

$$H_0 = H_6 * r_6 / r_0$$

The values of “ r ” are shown in the following table:

A:30.47mm	B:35.40mm
	
C:78.56mm	D:35.40mm
	



➤ **ABCDEF direction The actual distance(r) to the antenna coil:**

measured distance(cm)	Actual distance r to the antenna (cm)					
	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F
0	0.30	0.35	0.79	0.35	0.11	0.02
2	2.30	2.35	2.79	2.35	2.11	2.02
4	4.30	4.35	4.79	4.35	4.11	4.02
6	6.30	6.35	6.79	6.35	6.11	6.02
8	8.30	8.35	8.79	8.35	8.11	8.02
10	10.30	10.35	10.79	10.35	10.11	10.02
12	12.30	12.35	12.79	12.35	12.11	12.02
14	14.30	14.35	14.79	14.35	14.11	14.02
16	16.30	16.35	16.79	16.35	16.11	16.02
18	18.30	18.35	18.79	18.35	18.11	18.02
20	20.30	20.35	20.79	20.35	20.11	20.02

Note: The phone is 16.21mm thick.

➤ **The result is calculated by the above formula:**

H-Field Strength at 0/2/4cm from the edges surrounding the EUT

Charging Battery Level	Measured E-Field Strength Values (V/m)								FCC H-Field Strength Limits (A/m)
	Measured Distance (cm)	Unit	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	
99%	0	A/m	0.4104	0.3729	0.3007	0.2945	0.5512	0.7128	1.63
50%	0	A/m	0.4254	0.3575	0.2972	0.3010	0.5659	0.7681	1.63
1%	0	A/m	0.3964	0.3865	0.3284	0.3585	0.5373	0.7044	1.63
99%	2	A/m	0.0543	0.0493	0.0398	0.0389	0.0729	0.0942	1.63
50%	2	A/m	0.0562	0.0473	0.0393	0.0398	0.0748	0.1015	1.63
1%	2	A/m	0.0524	0.0511	0.0434	0.0474	0.0710	0.0931	1.63
99%	4	A/m	0.0290	0.0264	0.0213	0.0208	0.0390	0.0505	1.63
50%	4	A/m	0.0301	0.0253	0.0210	0.0213	0.0401	0.0544	1.63
1%	4	A/m	0.0281	0.0274	0.0232	0.0254	0.0380	0.0499	1.63

8.4 Comparison of evaluation data and test data

➤ We compare the test value of 4cm/2cm with the estimated value:

Test Value									
Charging Battery Level	Measured E-Field Strength Values (V/m)								FCC H-Field Strength Limits (A/m)
	Measured Distance (cm)	Unit	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	
99%	2	A/m	0.0385	0.0351	0.0308	0.0274	0.0594	0.0846	1.63
50%	2	A/m	0.0412	0.0361	0.0339	0.0305	0.0516	0.0784	1.63
1%	2	A/m	0.0375	0.0368	0.0348	0.0352	0.0564	0.0696	1.63
99%	4	A/m	0.025	0.0212	0.0174	0.0192	0.0301	0.0358	1.63
50%	4	A/m	0.0279	0.0207	0.0181	0.0208	0.0307	0.0387	1.63
1%	4	A/m	0.0287	0.0243	0.0207	0.0203	0.028	0.0367	1.63
Estimated Value									
Charging Battery Level	Measured E-Field Strength Values (V/m)								FCC H-Field Strength Limits (A/m)
	Measured Distance (cm)	Unit	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	
99%	2	A/m	0.0540	0.0501	0.0420	0.0374	0.0749	0.0950	1.63
50%	2	A/m	0.0556	0.0481	0.0426	0.0395	0.0738	0.0989	1.63
1%	2	A/m	0.0523	0.0516	0.0442	0.0466	0.0711	0.0943	1.63
99%	4	A/m	0.0289	0.0268	0.0225	0.0200	0.0401	0.0509	1.63
50%	4	A/m	0.0297	0.0257	0.0228	0.0212	0.0395	0.0529	1.63
1%	4	A/m	0.0280	0.0276	0.0237	0.0250	0.0381	0.0505	1.63

➤ The corresponding deviation value is calculated:

Charging Battery Level	Deviation value								Limits
	Measured Distance (cm)	Unit	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	
99%	2	A/m	-28.70%	-29.94%	-26.67%	-26.74%	-20.69%	-10.95%	30%
50%	2	A/m	-25.90%	-24.95%	-20.42%	-22.78%	-30.08%	-20.73%	30%
1%	2	A/m	-28.30%	-28.68%	-21.27%	-24.46%	-20.68%	-26.19%	30%
99%	4	A/m	-13.49%	-20.90%	-22.67%	-4.00%	-24.94%	-29.67%	30%
50%	4	A/m	-6.06%	-19.46%	-20.61%	-1.89%	-22.28%	-26.84%	30%
1%	4	A/m	2.50%	-11.96%	-12.66%	-18.80%	-26.51%	-27.33%	30%

➤ Conclusion:

A minimum safety distance of 0 cm to the antenna is required when the device is charging a smart phone for mobile exposure. The detected emissions are below the limitations according FCC KDB 680106.

The model was established with a 30% agreement, so it was considered to be approved.

The estimated test distances of 0cm are reliable.

9 Test Setup Photos



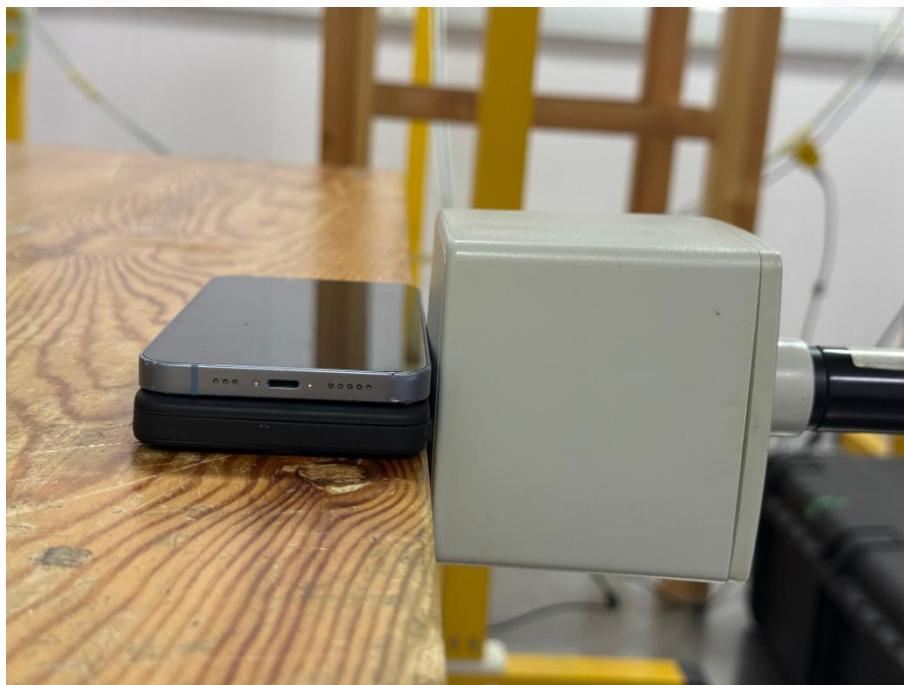
Side(C)



Side(A)



Side(B)



Side(D)



Top(E)



Bottom(F)



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--END OF REPORT--