TEST REPORT

Product Name	:	Wireless charging mobile power bank & phone case
Brand Name	:	N/A
Model	:	KKR-5W
Series Model	:	KKR-16, KKR-17
FCC ID	:	2BRXL-KKR-5W
Applicant	:	**SHENZHEN KIKORYU ELECTRONIC TECHNOLOGY LTD.**
Address	:	Building D, 5th Floor, Room 501, Huamao Industrial Zone, Silian Community, Henggang Subdistrict, Longgang District, Shenzhen, China
Manufacturer	:	**SHENZHEN KIKORYU ELECTRONIC TECHNOLOGY LTD.**
Address	:	Building D, 5th Floor, Room 501, Huamao Industrial Zone, Silian Community, Henggang Subdistrict, Longgang District, Shenzhen, China
Standard(s)	:	FCC CFR Title 47 Part 15 Subpart C
Date of Receipt	:	Aug. 28, 2025
Date of Test	:	Aug. 29, 2025~ Sep 04, 2025
Issued Date	:	Sep 05, 2025

Issued By: **Guangdong Asia Hongke Test Technology Limited**

B1/F, Building 11, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Tel.: +86 0755-230967639 Fax.: +86 0755-230967639

Reviewed by: Aaron.Ye Aalen.Ye **Approved by:** Allen Wang Allen Wang

Note: This device has been tested and found to comply with the standard(s) listed, this test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory. This report shall not be reproduced except in full, without the written approval of Guangdong Asia Hongke Test Technology Limited. If there is a need to alter or revise this document, the right belongs to Guangdong Asia Hongke Test Technology Limited, and it should give a prior written notice of the revision document. This test report must not be used by the client to claim product endorsement.

Report Revise Record

Report Version	Issued Date	Notes
M1	Sep 05, 2025	Initial Release

Contents

1 TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:
FCC Rules Part 15.207,15.209, 15.215(c)

ANSI C63.10: 2013: American National Standard for Testing Unlicensed Wireless Devices

1.2 Test Summary

Test Item	Section in 47 CFR	Test Result
Electric Field Radiated Emissions	FCC Part 15 C (Section15.209)	PASS
20dB Bandwidth/99% Bandwidth	FCC Part 15 C (Section15.215(c))	PASS
AC Power Line Conducted Emission	FCC Part 15 C (Section15.207)	PASS
Antenna Requirement	FCC Part 15 C (Section15.203	PASS

1.3 Test Facility

Test Laboratory:

Guangdong Asia Hongke Test Technology Limited
B1/F, Building 11, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

The test facility is recognized, certified or accredited by the following organizations:
FCC-Registration No.: 251906 Designation Number: CN1376
Guangdong Asia Hongke Test Technology Limited has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC —Registration No.: 31737 CAB identifier: CN0165
The 3m Semi-anechoic chamber of Guangdong Asia Hongke Test Technology Limited has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 31737

A2LA-Lab Cert. No.: 7133.01
Guangdong Asia Hongke Test Technology Limited has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

1.4 Measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to CISPR 16 - 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the Guangdong Asia Hongke Test Technology Limited’s quality system according to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.
Hereafter the best measurement capability for Asia Hongke laboratory is reported:

Test	Measurement Uncertainty	Notes
Power Line Conducted Emission	9KHz~30MHz ±1.20 dB	(1)
Radiated Emission	9KHz~30MHz ±3.10dB	(1)
Radiated Emission	30MHz~1GHz ±3.75dB	(1)
Radiated Emission	1GHz~18GHz ±3.88 dB	(1)
Radiated Emission	18GHz-40GHz ±3.88dB	(1)
RF power, conducted	30MHz~6GHz ±0.16dB	(1)
RF power density, conducted	±0.24dB	(1)
Spurious emissions, conducted	±0.21dB	(1)
Temperature	±1℃	(1)
Humidity	±3%	(1)
DC and low frequency voltages	±1.5%	(1)
Time	±2%	(1)
Duty cycle	±2%	(1)
Bandwidth	±1.5 x10^{-6}	(1)

The report uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty Multiplied by a coverage factor of k=2 , providing a level of confidence of approximately 95%

2 GENERAL INFORMATION

2.1 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	25°C
Relative Humidity:	55 %
Air Pressure:	101 kPa

2.2 General Description of EUT

Product Name:	Wireless charging mobile power bank & phone case
Model/Type reference:	KKR-5W
Serial Model:	KKR-16, KKR-17
Model different:	All models have the same structure and circuit except for the model names and appearance
Power Supply:	Battery capacity: 5000mAh/3.85V/19.25Wh Type-c input: 5V/3A 9V/2A 12V/1.5A 18Wmax Type-c Output: 5V/3A 9V/2.22A 12V/1.67A 20Wmax Wireless charging output: 5W/7.5W/10W/15W
Hardware Version:	N/A
Software Version:	N/A
Sample(s) Status:	AiTSZ-250828075-1(Normal sample) AiTSZ-250828075-2(Engineer sample)
Wireless Charger:	
Operation frequency:	115 KHz - 205 KHz
Modulation Technology:	ASK
Antenna Type:	Loop coil antenna
Antenna gain:	0dBi
Remark: The above DUT's information was declared by manufacturer. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.	

2.3 Description of the test mode

Equipment under test was operated during the measurement under the following conditions:
☒ Charging and communication mode

Test Modes:		
Mode 1	AC/DC Adapter+ EUT + phone(Battery Status:< 1%)	Record
Mode 2	AC/DC Adapter+ EUT + phone(Battery Status:< 50%)	Pre-tested
Mode 3	AC/DC Adapter+ EUT + phone(Battery Status:< 99%)	Pre-tested
Mode 4	EUT + phone(Battery Status:< 1%)	Pre-tested
Mode 5	EUT + phone(Battery Status:< 50%)	Pre-tested
Mode 6	EUT + phone(Battery Status:< 99%)	Pre-tested
Mode 7	Stand-by mode.	Pre-tested
Note: All test modes were pre-tested, but we only recorded the worst case in this report.		

2.4 Special Accessories

Follow auxiliary equipment(s) test with EUT that provided by the manufacturer or laboratory is listed as follow:

Description	Manufacturer	Model	Serial No.	Provided by	Maximum charging power
Adapter	xiaomi	MDY-14-EU	A62502T103407S	Test lab	67W
Phone	Apple	IPhone 16	/	Test lab	15W
/	/	/	/	/	/
/	/	/	/	/	/

2.5 Equipment List for the Test

No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	EMI Measuring Receiver	R&S	ESR	101160	2024.09.25	2025.09.24
2	Spectrum Analyzer	R&S	FSV40	101470	2024.09.23	2025.09.22
3	Low Noise Pre Amplifier	SCHWARZBECK	BBV 9745	00282	2024.09.25	2025.09.24
4	Low Noise Pre Amplifier	CESHENG	CSKJLNA231016A	CSKJLNA231016A	2024.09.25	2025.09.24
5	Passive Loop	ETS	6512	00165355	2024.08.29	2027.08.28
6	TRILOG Super Broadband test Antenna	SCHWARZBECK	VULB9168	01434	2024.08.29	2027.08.28
7	Broadband Horn Antenna	Schwarzbeck	BBHA 9120D	452	2024.08.29	2027.08.28
8	Horn Antenna 15-40GHz	SCHWARZBECK	BBHA9170	BBHA9170367	2024.08.28	2027.08.27
9	6dB Attenuator	JFW	50FPE-006	4360846-949-1	2024.09.24	2025.09.23
10	EMI Test Receiver	R&S	ESPI	100771	2024.09.25	2025.09.24
11	LISN	R&S	NNLK 8129	8130179	2024.09.24	2025.09.23
12	LISN	R&S	ESH3-Z5	892785/016	2024.09.23	2025.09.22
13	Pulse Limiter	R&S	ESH3-Z2	102789	2024.09.24	2025.09.23
14	RF Automatic Test system	TST	TSTPASS	21033016	2024.09.25	2025.09.24
15	Vector Signal Generator	Agilent	N5182A	MY50143009	2024.09.25	2025.09.24
16	Analog signal generator	Agilent	E8257	MY51554256	2024.09.25	2025.09.24
17	Spectrum Analyzer	Agilent	N9020A	MY51289843	2024.09.25	2025.09.24
18	Spectrum Analyzer	Agilent	N9020A	MY53421570	2024.09.25	2025.09.24
19	Power Sensor	Agilent	8481A	MY41097697	2024.09.25	2025.09.24
20	Wideband Radio communication tester	R&S	CMW500	1201.0002K50	2024.09.24	2025.09.23
21	DC power supply	ZHAOXIN	RXN-305D-2	28070002559	2024.09.24	2025.09.23
22	RE Software	EZ	EZ-EMC_RE	Ver.AIT-03A	N/A	N/A
23	CE Software	EZ	EZ-EMC_CE	Ver.AIT-03A	N/A	N/A
24	RF Software	TST	TSTPASS	Version 2.0	N/A	N/A
25	RF Software	cesheng	WCS-WCN	Version 2024.6.20	N/A	N/A
26	Coupled Antenna	NTS	41477A_Y404	N/A	N/A	N/A

3 TEST CONDITIONS AND RESULTS

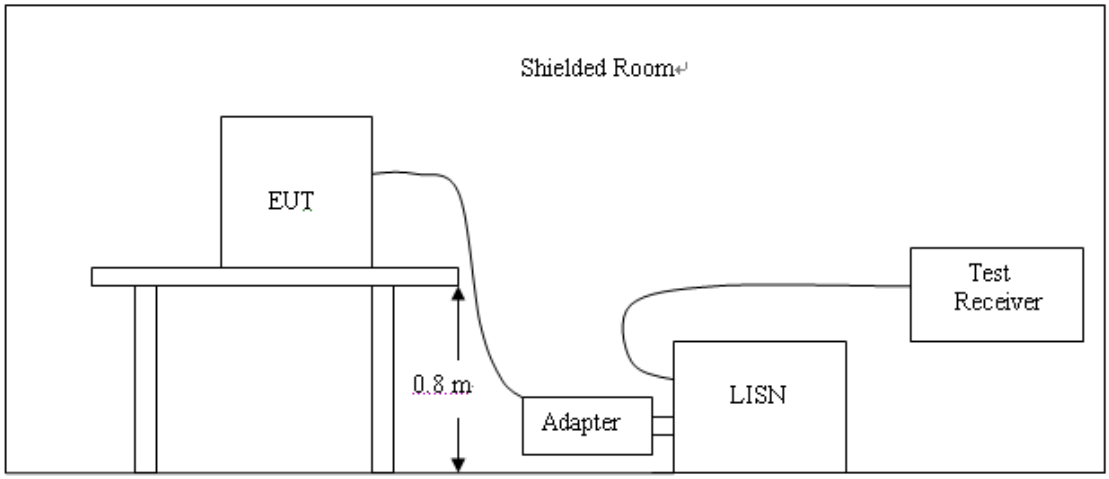
3.1 Conducted Emissions Test

LIMIT

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

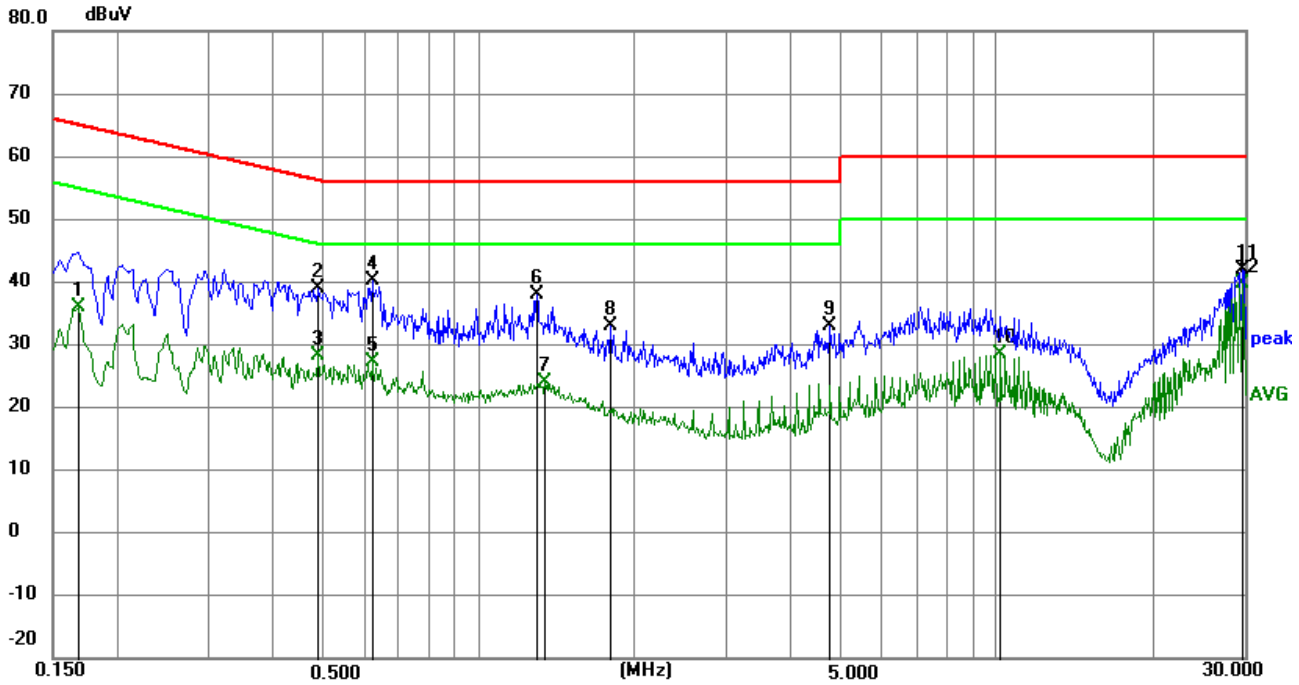
1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10:2013.
2. Support equipment, if needed, was placed as per ANSI C63.10:2013.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10:2013.
4. The adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.

TEST RESULTS

Remark:

1. Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:

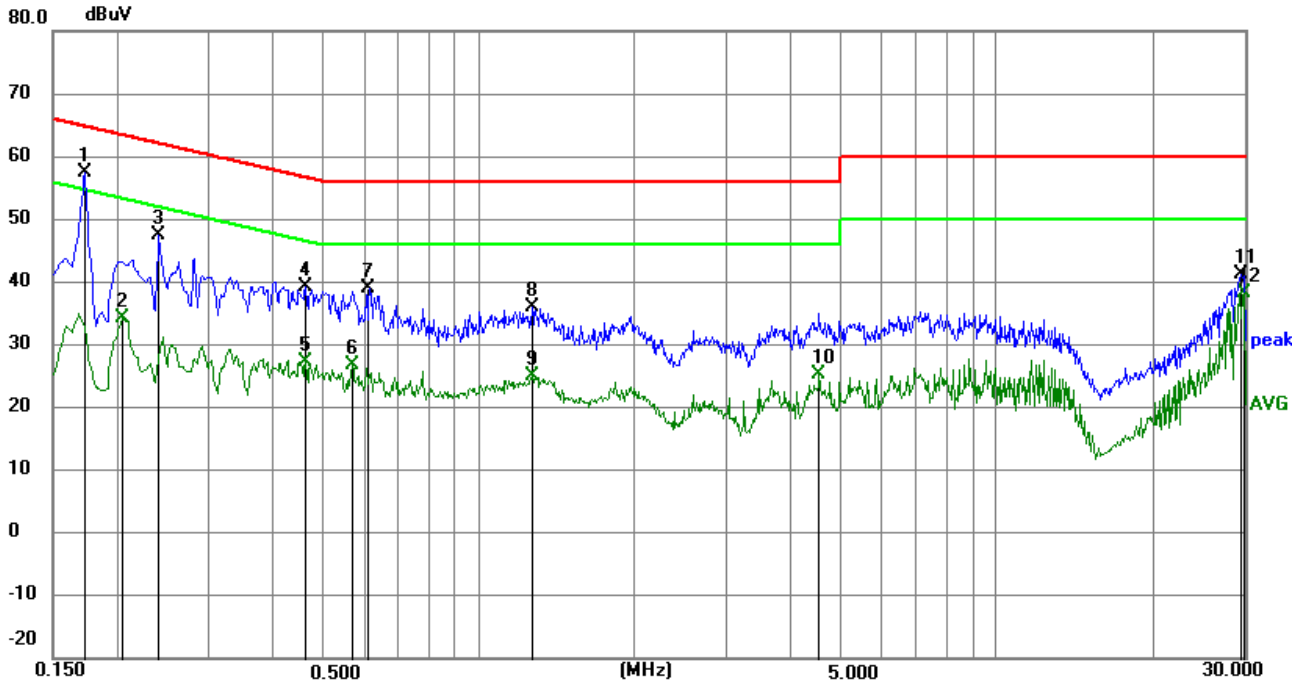
Test Mode	Mode 1	Line:	L



Remark: Correct Factor = Insertion loss of LISN + Cable loss + Insertion loss of Pulse Limiter;
Measurement Result = Reading Level +Correct Factor;
Margin = Measurement Result- Limit

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1680	25.32	10.67	35.99	55.06	-19.07	AVG
2	0.4874	28.32	10.69	39.01	56.21	-17.20	peak
3	0.4874	17.59	10.69	28.28	46.21	-17.93	AVG
4	0.6225	29.56	10.69	40.25	56.00	-15.75	peak
5	0.6225	16.60	10.69	27.29	46.00	-18.71	AVG
6	1.2930	27.27	10.69	37.96	56.00	-18.04	peak
7	1.3425	13.42	10.69	24.11	46.00	-21.89	AVG
8	1.7924	22.11	10.76	32.87	56.00	-23.13	peak
9	4.7533	21.88	11.02	32.90	56.00	-23.10	peak
10	10.1534	17.54	11.03	28.57	50.00	-21.43	AVG
11	29.6970	30.15	11.73	41.88	60.00	-18.12	peak
12	29.6970	27.97	11.73	39.70	50.00	-10.30	AVG

Test Mode	Mode 1	Line:	N



Remark: Correct Factor = Insertion loss of LISN + Cable loss + Insertion loss of Pulse Limiter;
Measurement Result = Reading Level +Correct Factor;
Margin = Measurement Result- Limit

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1725	46.65	10.68	57.33	64.84	-7.51	peak
2	0.2040	23.43	10.69	34.12	53.45	-19.33	AVG
3	0.2400	36.67	10.69	47.36	62.10	-14.74	peak
4	0.4605	28.59	10.69	39.28	56.68	-17.40	peak
5	0.4605	16.60	10.69	27.29	46.68	-19.39	AVG
6	0.5685	16.14	10.68	26.82	46.00	-19.18	AVG
7	0.6134	28.31	10.68	38.99	56.00	-17.01	peak
8	1.2660	25.28	10.67	35.95	56.00	-20.05	peak
9	1.2660	14.26	10.67	24.93	46.00	-21.07	AVG
10	4.5375	14.28	11.01	25.29	46.00	-20.71	AVG
11	29.5800	29.49	11.61	41.10	60.00	-18.90	peak
12	29.9265	26.63	11.63	38.26	50.00	-11.74	AVG
1	0.1725	46.65	10.68	57.33	64.84	-7.51	peak
2	0.2040	23.43	10.69	34.12	53.45	-19.33	AVG

3.2 Radiated Emissions

Limit

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

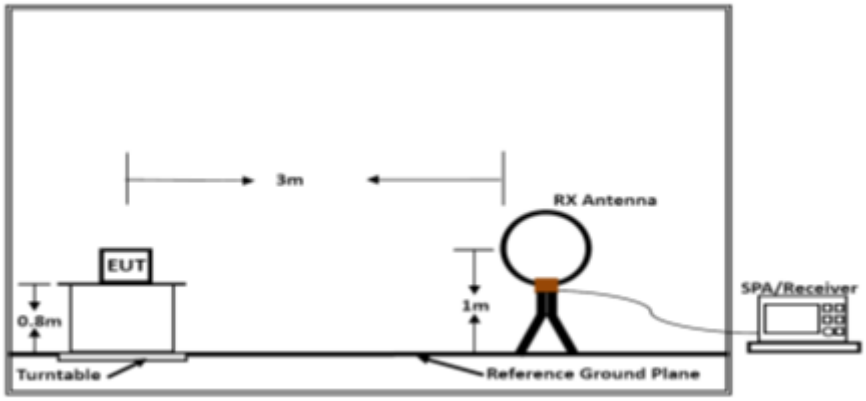
Radiated emission limits

Frequency (MHz)	Distance (Meters)	Radiated (dBμV/m)	Radiated (μV/m)
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(30/3)	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9.90 kHz, 110.490 kHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

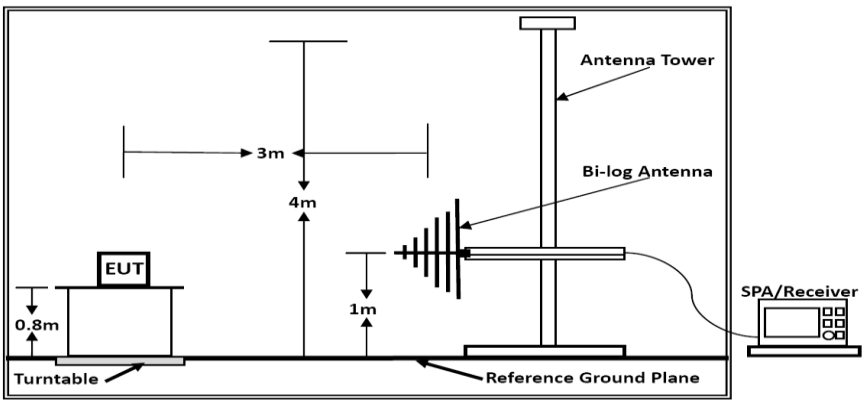
TEST CONFIGURATION

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



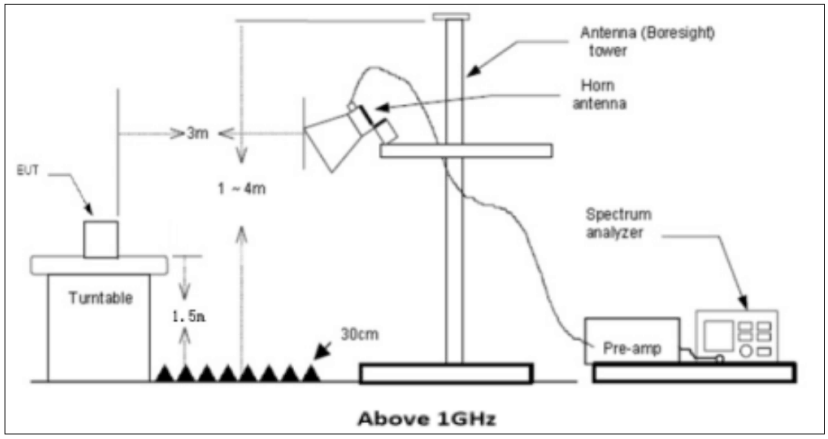
Below 30MHz

(B) Radiated Emission Test Set-Up, Frequency below 1000MHz



Below 1GHz

(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



Test Procedure

1. Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane, and above 1GHz measurement EUT was placed on a low permittivity and low loss tangent turn table which is 1.5m above ground plane.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0℃ to 360℃ to acquire the highest emissions from EUT
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. Radiated emission test frequency band from 9KHz to 1000MHz.
6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Bilog Antenna	3

7. Setting test receiver/spectrum as following table states:

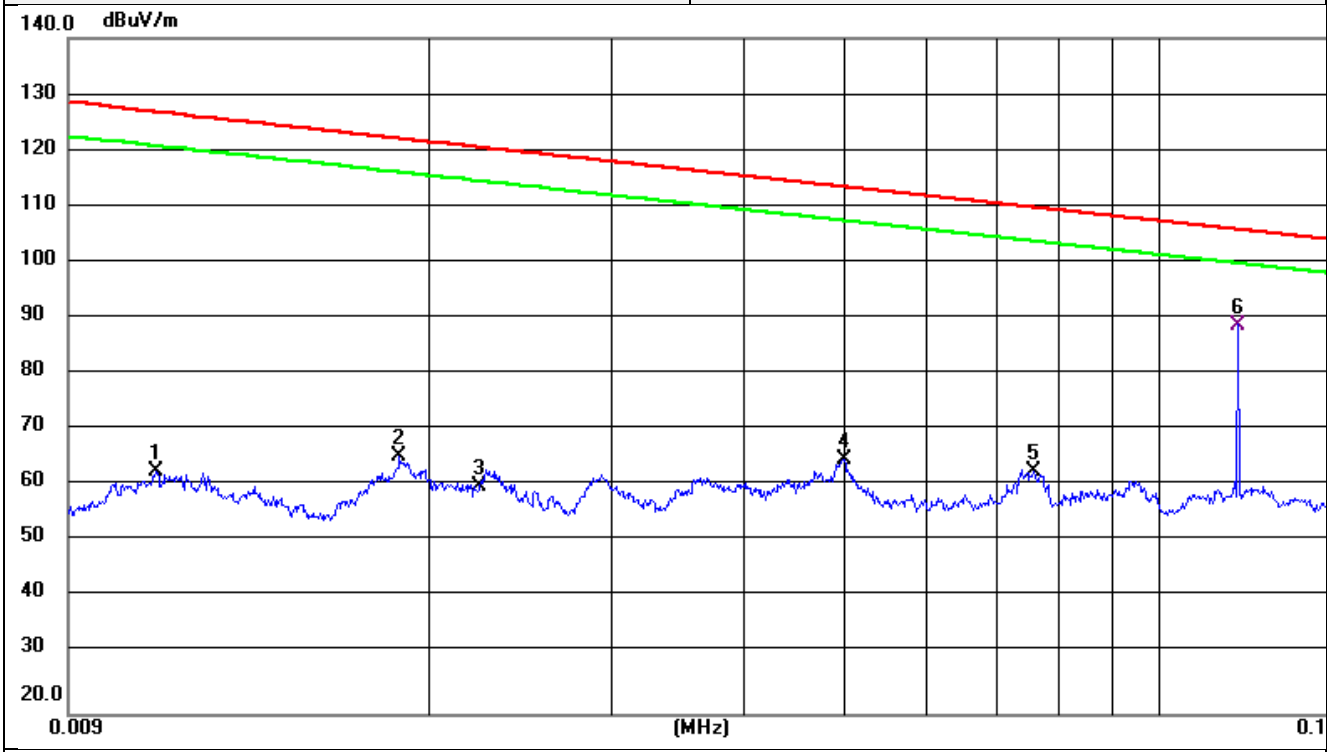
Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP

TEST RESULTS

Remark:
All test modes descripted in section 2.3 has been tested, only the worst result of Mode 1 and phone coil configured working on EPP mode is recorded as below:

For 9KHz-150KHz

Test mode:	Mode 1

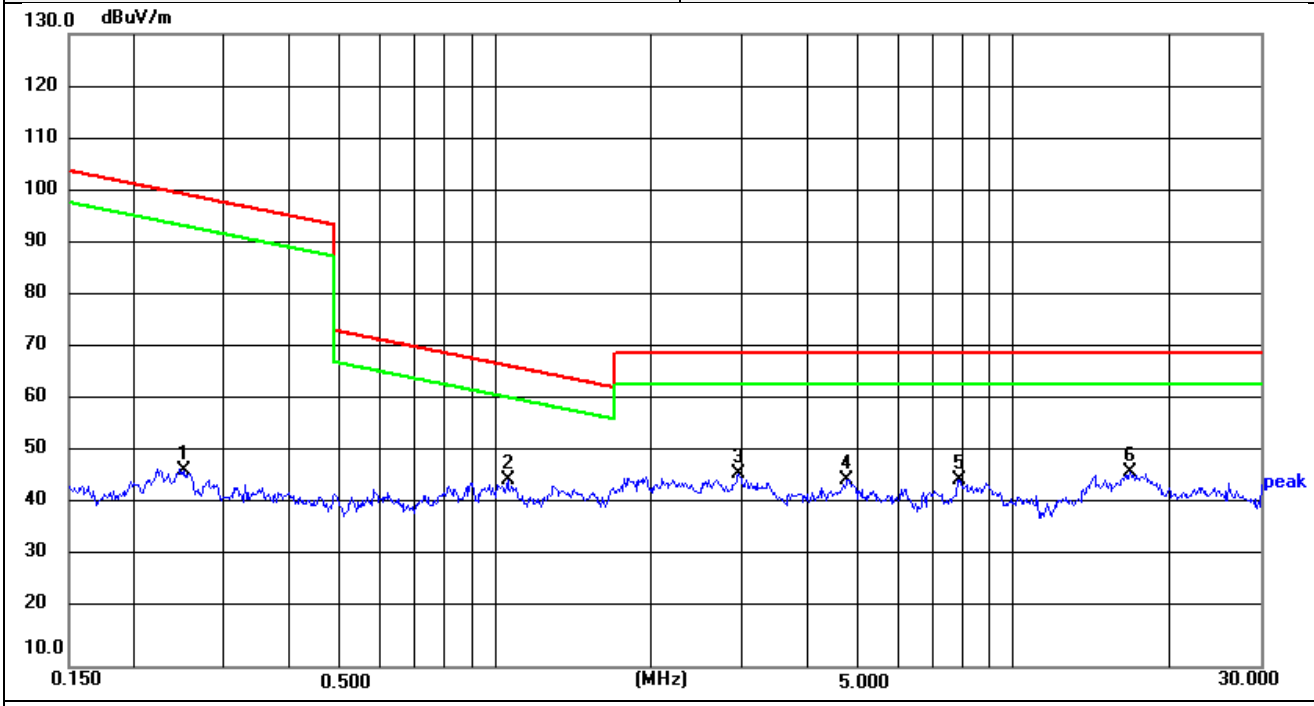


Remark:
Emission Level = Reading + Factor;
Factor = Antenna Factor + Cable Loss;
Margin= Emission Level - Limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.0110	41.79	21.36	63.15	126.78	-63.63	Peak
2	0.0187	44.89	20.88	65.77	122.17	-56.40	Peak
3	0.0223	39.54	20.94	60.48	120.64	-60.16	Peak
4	0.0500	42.68	22.60	65.28	113.62	-48.34	Peak
5	0.0760	40.48	22.69	63.17	109.99	-46.82	Peak
6	0.1192	66.79	22.21	89.00	106.08	-17.08	Peak

For 150KHz-30MHz

Test mode:	Mode 1

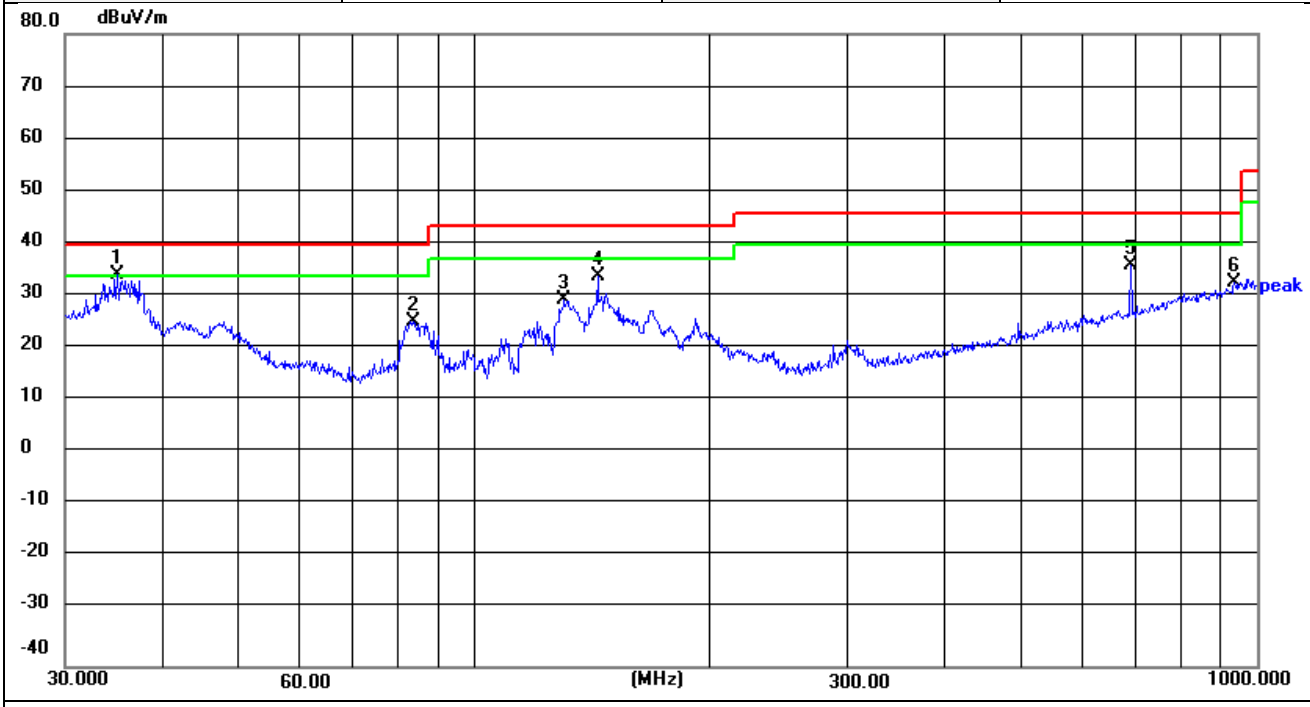


Remark:
Emission Level = Reading + Factor;
Factor = Antenna Factor + Cable Loss;
Margin= Emission Level - Limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.2505	25.99	21.40	47.39	99.63	-52.24	Peak
2	1.0540	22.77	22.59	45.36	67.15	-21.79	Peak
3	2.9462	24.01	22.59	46.60	69.54	-22.94	Peak
4	4.7713	22.25	23.21	45.46	69.54	-24.08	Peak
5	7.8516	22.67	22.90	45.57	69.54	-23.97	Peak
6	16.7497	23.31	23.53	46.84	69.54	-22.70	Peak

For 30MHz-1GHz

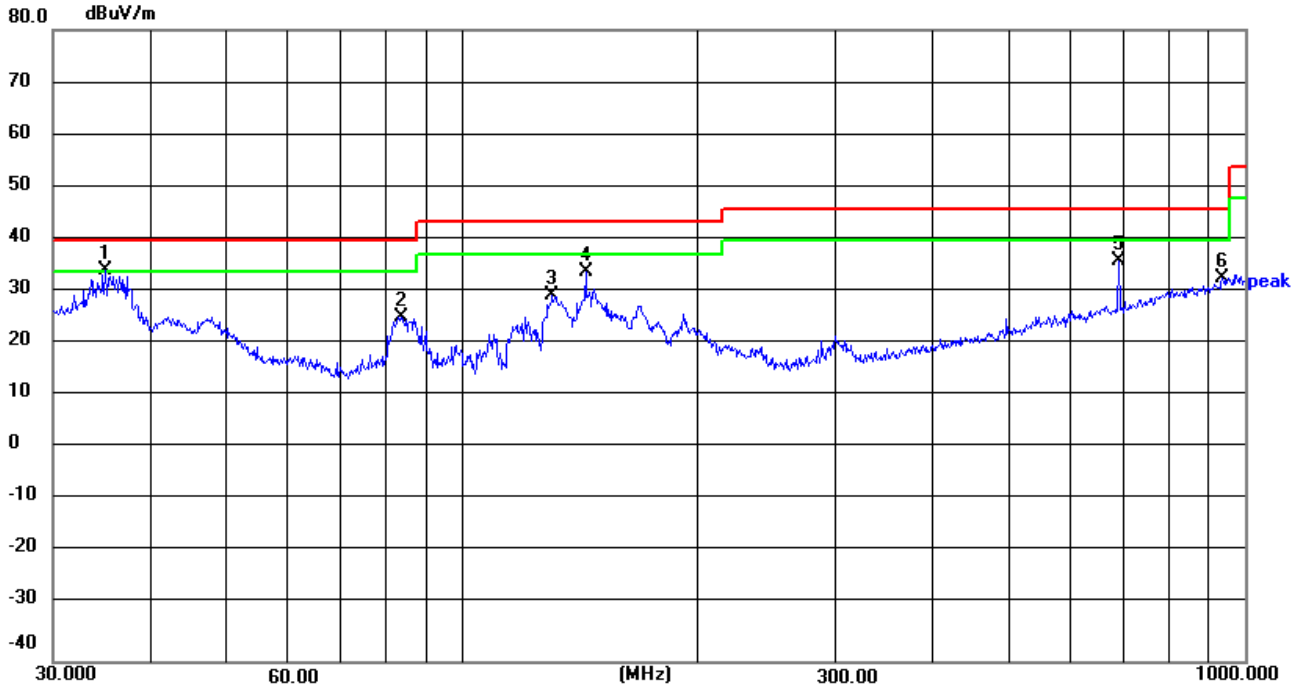
Test mode:	Mode 1	Polarization:	Horizontal



Remark:
Emission Level = Reading + Factor;
Factor = Antenna Factor + Cable Loss – Pre-amplifier;
Margin= Emission Level - Limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	35.0048	51.57	-17.21	34.36	40.00	-5.64	peak
2	83.5222	46.42	-20.95	25.47	40.00	-14.53	peak
3	130.3789	47.25	-17.70	29.55	43.50	-13.95	peak
4	143.8295	50.98	-17.00	33.98	43.50	-9.52	peak
5	689.5644	44.47	-8.39	36.08	46.00	-9.92	peak
6	935.5463	36.80	-3.90	32.90	46.00	-13.10	peak

Test mode:	Mode 1	Polarization:	Vertical



Remark:
Emission Level = Reading + Factor;
Factor = Antenna Factor + Cable Loss – Pre-amplifier;
Margin= Emission Level - Limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	35.0048	51.57	-17.21	34.36	40.00	-5.64	peak
2	83.5222	46.42	-20.95	25.47	40.00	-14.53	peak
3	130.3789	47.25	-17.70	29.55	43.50	-13.95	peak
4	143.8295	50.98	-17.00	33.98	43.50	-9.52	peak
5	689.5644	44.47	-8.39	36.08	46.00	-9.92	peak
6	935.5463	36.80	-3.90	32.90	46.00	-13.10	peak

3.3 20dB Bandwidth

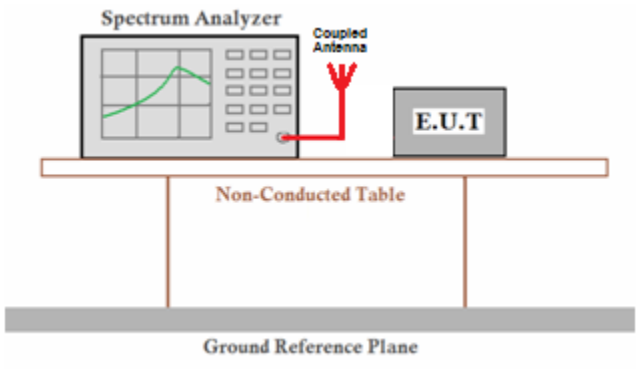
Limit

The 20dB bandwidth shall be less than 80% of the permitted frequency band.

Test Procedure

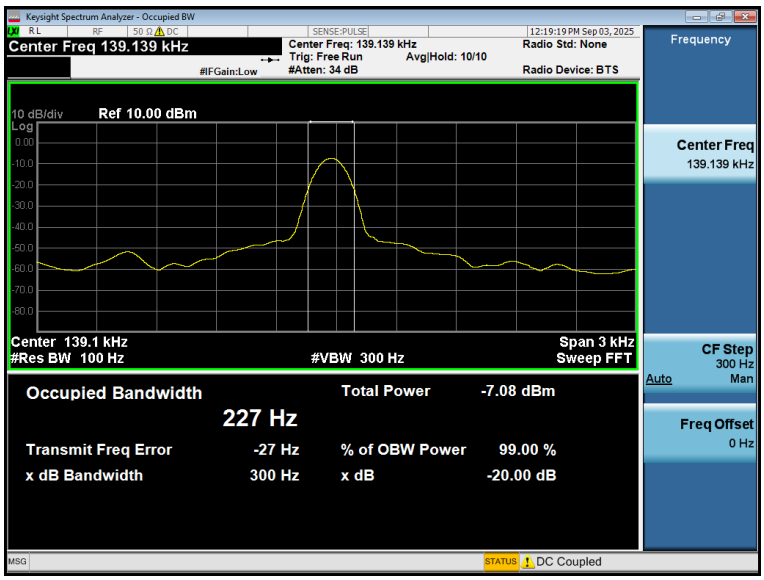
1. Set RBW = 1% to 5% of the OBW.
2. Set the video bandwidth (VBW) ≥ 3 x RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

Test setup



Test Results

Coil	Frequency (KHz)	20dB bandwidth (KHz)	99% bandwidth (KHz)	Result
Phone	139.139	0.300	0.227	Pass



Note: Since the measured signal is CW-like, it is not practical to adjust the RBW according to C63.10, as the measured bandwidth will always follow the RBW, resulting in approximately twice the RBW.

3.4 Antenna Requirement

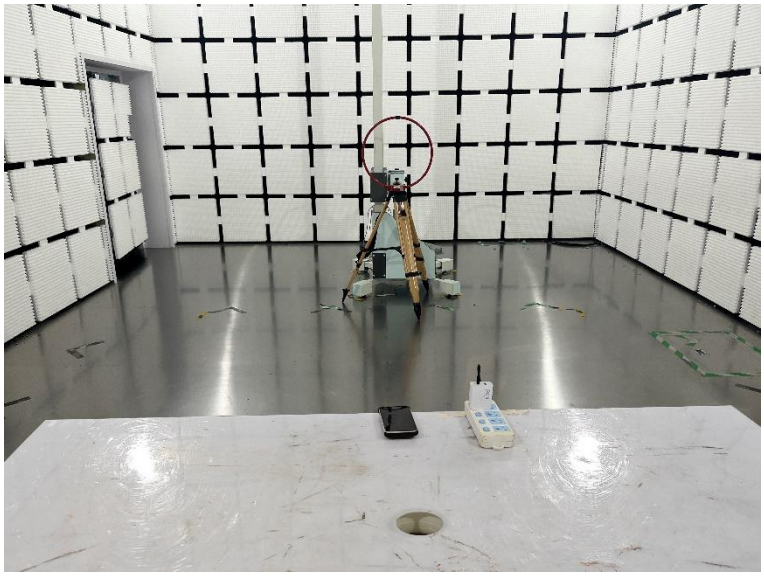
Standard Applicable

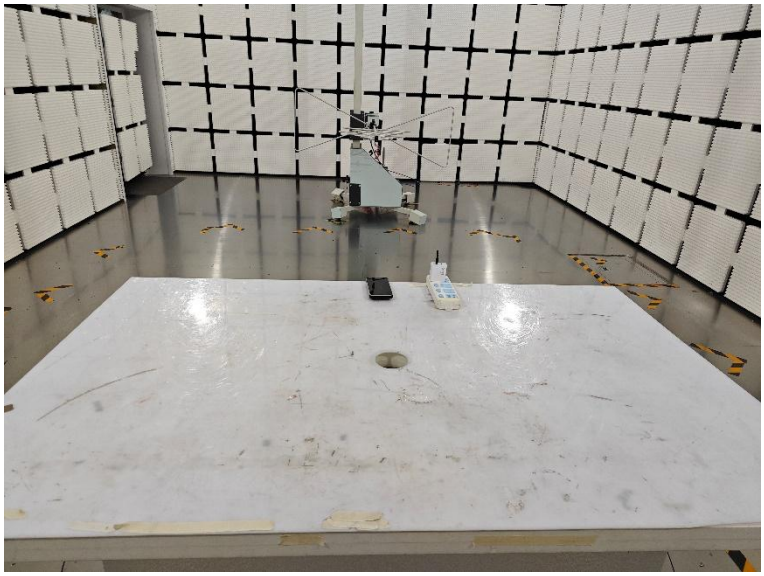
For intentional device, according to FCC 47 CFR Section 15.203:
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited

Confirmation

The EUT's antenna is an Inductive Loop coil Antenna, the best case gain of the antenna is 0dBi.

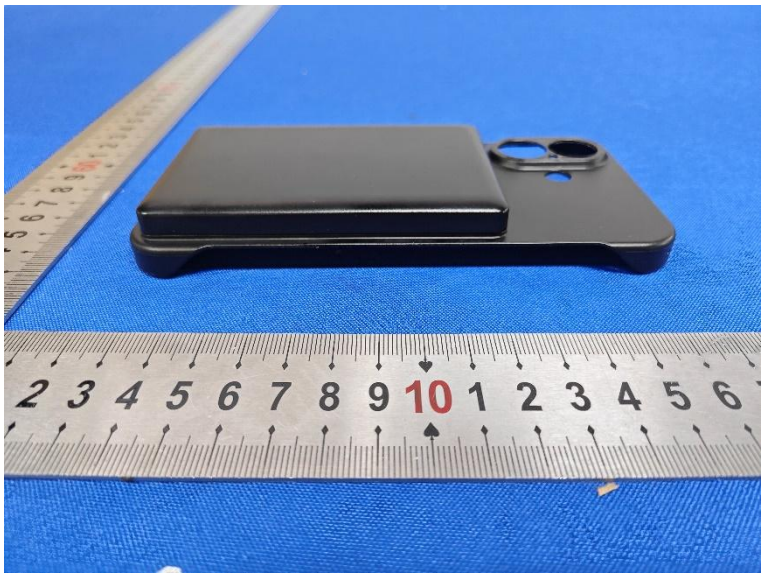
4 Test Setup Photographs of EUT

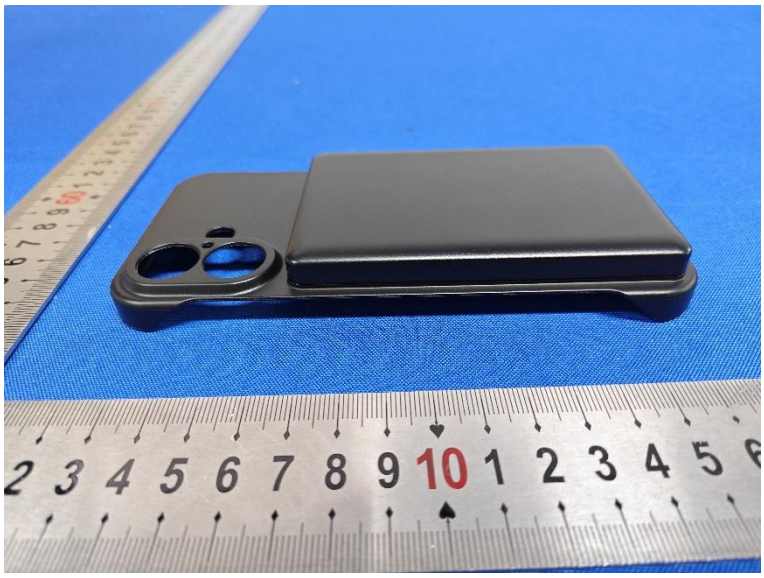




5 PHOTOS OF THE EUT

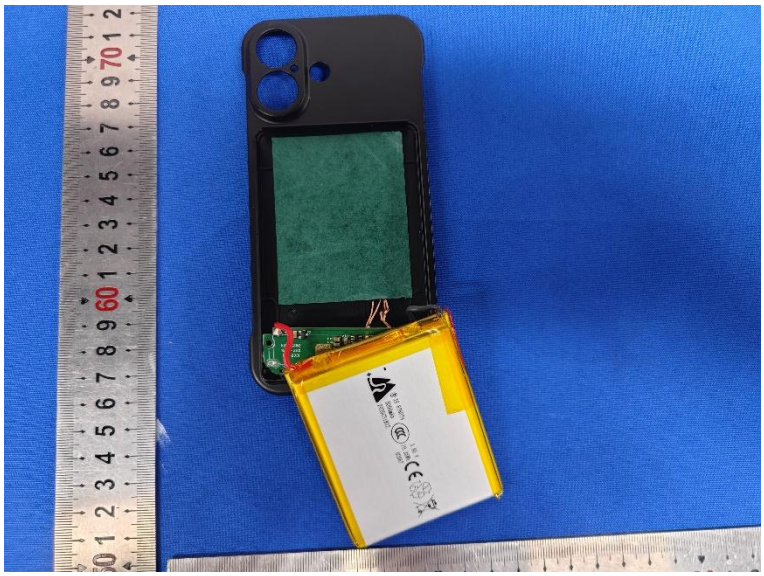
External photos

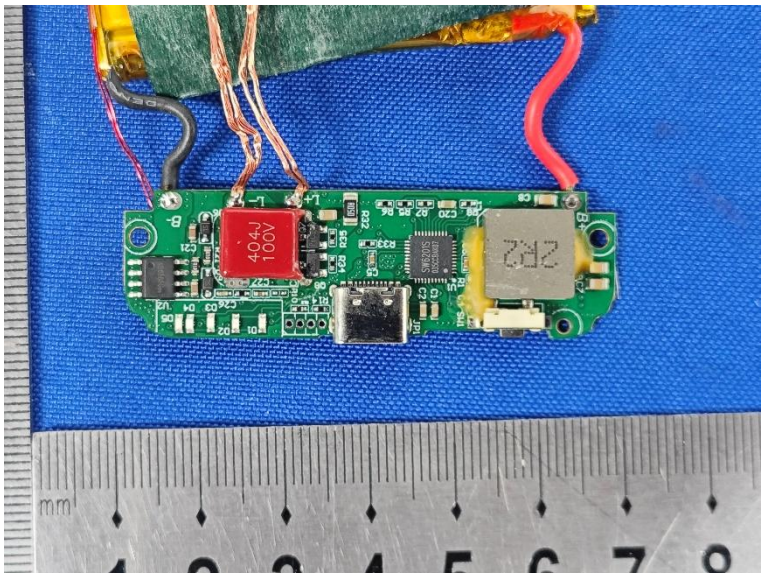


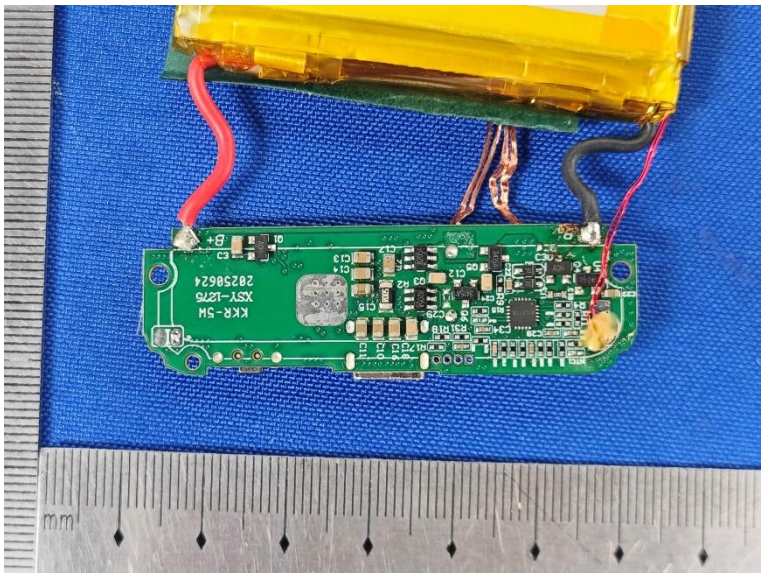


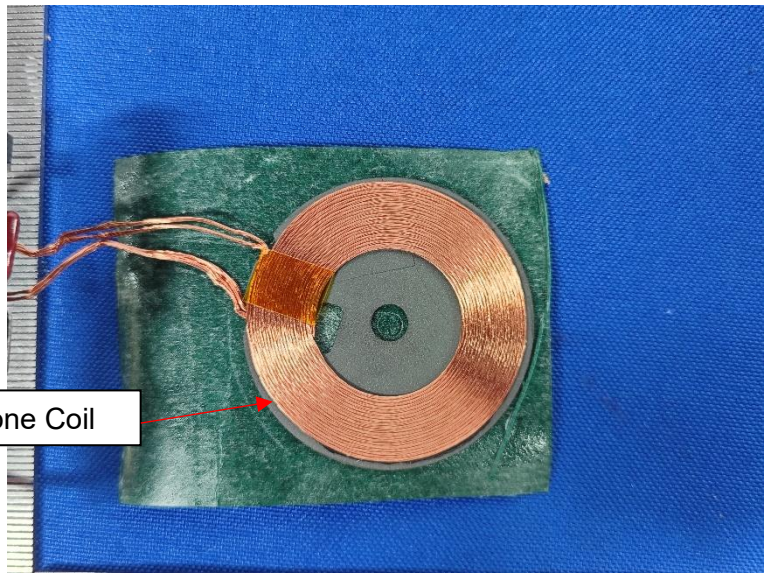

2 3 4 5 6 7 8 9 10 1 2 3 4

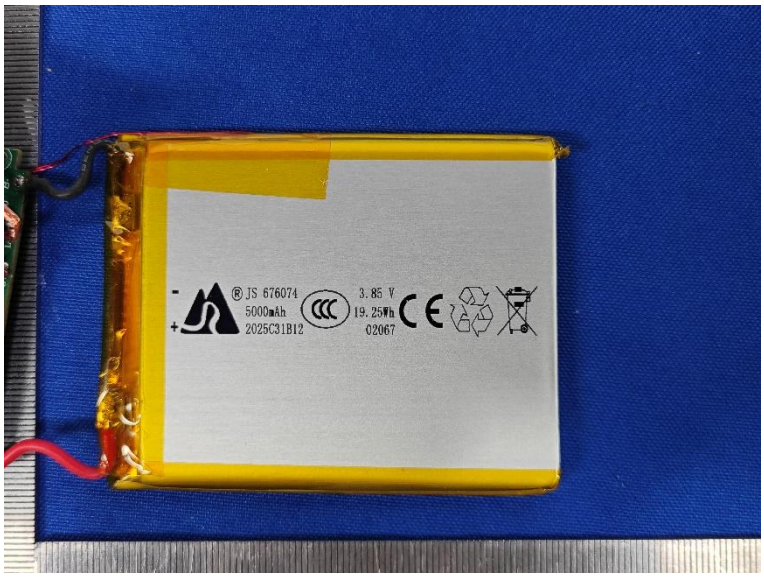
Internal photos








Phone Coil



********** End of Report **********