ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT
INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 15 SUBPART C REQUIREMENT

OF

Magnetic Wireless Powerbank

Model No.: WiMag

FCC ID: 2BE6K-WIMAG

Report No.: E04A24011329F00501

Issue Date: Mar. 11, 2024

Prepared for

SHENZHEN WIPLAY TECHNOLOGY CO.,LTD

Room 405,Building C5,Zhonghao New Town,Xiang jiaotang Community,Bantian Street,Longgang District,Shenzhen City,Guangdong Province

Prepared by

Guangdong Global Testing Technology Co., Ltd.

Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

This report is based on a single evaluation of the submitted sample(s) of the above mentioned Product, it does not imply an assessment of the production of the products.

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VERIFICATION OF COMPLIANCE

Applicant:	SHENZHEN WIPLAY TECHNOLOGY CO.,LTD Room 405,Building C5,Zhonghao New Town,Xiang jiaotang Community,Bantian Street,Longgang District,Shenzhen City,Guangdong Province
Manufacturer:	SHENZHEN WIPLAY TECHNOLOGY CO.,LTD Room 405,Building C5,Zhonghao New Town,Xiang jiaotang Community,Bantian Street,Longgang District,Shenzhen City,Guangdong Province
Product Description:	Magnetic Wireless Powerbank
Trade Mark:	eFones
Model Number:	WiMag
Series Model:	N/A

We hereby certify that:

The above equipment was tested by Guangdong Global Testing Technology Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10-2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.209(2022).

Date of Test: Feb. 21, 2024 to Mar. 11, 2024

Prepared by: Alan He/Editor

Reviewer & Authorized Signer: Shawn Wen/ General Manager

Modified Information

Version	Summary	Revision Date	Report No.
Ver.1.0	Original Report	/	E04A24011329F00501

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1 General Information

1.1 Product Description

Characteristics	Description
Product Name	Magnetic Wireless Powerbank
Model number	WiMag
Series Model	N/A
Operation Mode	Wireless Charging
Rating	Capacity: 5000mAh/3.8V(19Wh) Lightning Input: 5V 2A Type-C Input: 5V 3A, 9V 2A (PD 18W) Type-C Output: 5V 3A, 9V 2.22A, 12V 1.67A (PD 20W) Wireless Output: 15W/10W/7.5W/5W
Battery Rating	DC 3.8V, 5000mAh(19Wh)
Power Supply	Lightning Input: 5V 2A Type-C Input: 5V 3A, 9V 2A (PD 18W)
Operating Frequency	110-205KHz
Wireless Charging Power	15W/10W/7.5W/5W
Modulation Technique	ASK
Antenna Type	Coil Antenna
Sample receipt date	Feb. 21, 2024

1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: 2BE6K-WIMAG filing to comply with the FCC Part 15, Subpart C Rules.

1.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Special Accessories

Not available for this EUT intended for grant.

1.5 Equipment Modifications

Not available for this EUT intended for grant.

1.6 Test Facility

Accreditation Certificate	**A2LA (Certificate No.: 6947.01)** Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA. **FCC (FCC Designation No.: CN1343)** Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules **ISED (Company No.: 30714)** Guangdong Global Testing Technology Co., Ltd. has been registered and fully described in a report filed with ISED. The Company Number is 30714 and the test lab Conformity Assessment Body Identifier (CABID) is CN0148.

Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People’s Republic of China, 523808

2 System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the fixed in a particular direction according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013.

2.4 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

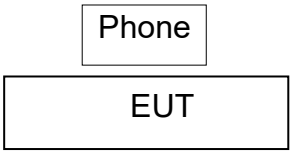


Table 2-1 Equipment Used in Tested System

Item	Equipment	Trade Mark	Model No.	FCC ID	Note
1.	Magnetic Wireless Powerbank	/	WiMag	2BE6K-WIMAG	***EUT***
2.	Phone	Apple	A2176	N/A	***Support Equipment***
3.	Adapter	XIAOMI	MDY-11-EX	N/A	***Support Equipment***
4.	USB Cable	/	/	N/A	***Support Equipment***

Note:

(1) Unless otherwise denoted as EUT in『Remark』column, device(s) used in tested system is a support equipment.

3 Summary of Test Results

FCC Rules	Description Of Test	Result
§15.207	AC Power Conducted Emission	Compliant
§15.209	Radiated Emission	Compliant
§2.1049	20dB Bandwidth	Compliant
§15.203	Antenna Requirement	Compliant

4 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Conducted Emissions Test	±2.0dB
Radiated Emission Test	±2.0dB
Temperature	±0.5℃
Humidity	±3%

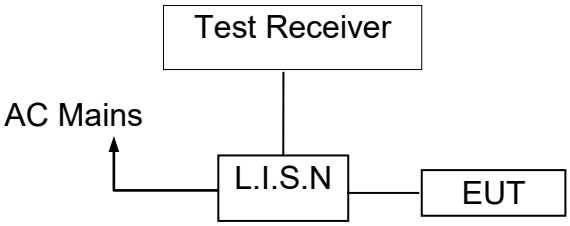
Remark: The coverage Factor (k=2), and measurement Uncertainty for a level of Confidence of 95%

5 Conducted Emissions Test

5.1 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured was complete.

5.2 Test SET-UP (Block Diagram of Configuration)



5.3 Measurement Equipment Used

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Shielded Room	CHENG YU	8m*5m*4m	N/A	2022/10/29	2025/10/28
EMI Test Receiver	Rohde & Schwarz	ESR3	102647	2023/09/18	2024/09/17
LISN/AMN	Rohde & Schwarz	ENV216	102843	2023/09/18	2024/09/17
NNLK 8129 RC	Schwarzbeck	NNLK 8129 RC	5046	2023/03/30	2024/03/29
Test Software	Farad	EZ-EMC (Ver. EMC-con-3A1 1+)	N/A	N/A	N/A

5.4 Conducted Emission Limit

Conducted Emission

Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

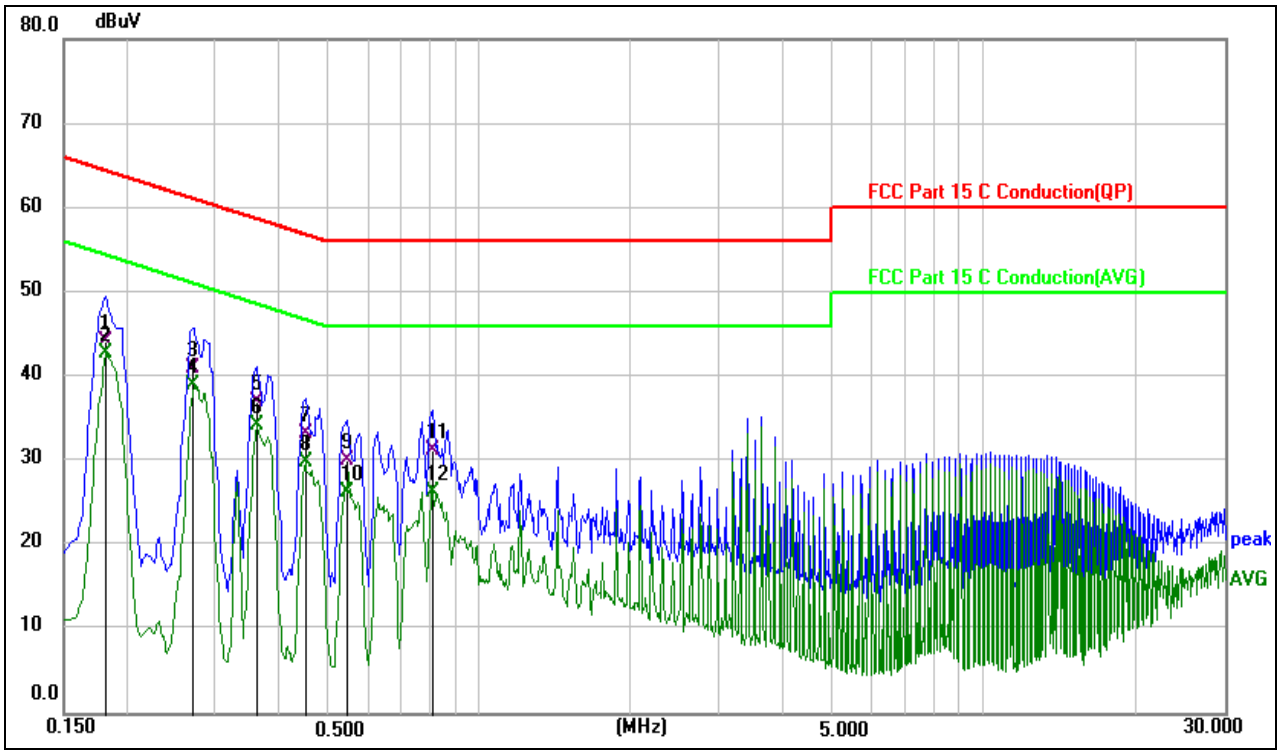
Note: 1. The lower limit shall apply at the transition frequencies

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.5 Measurement Result

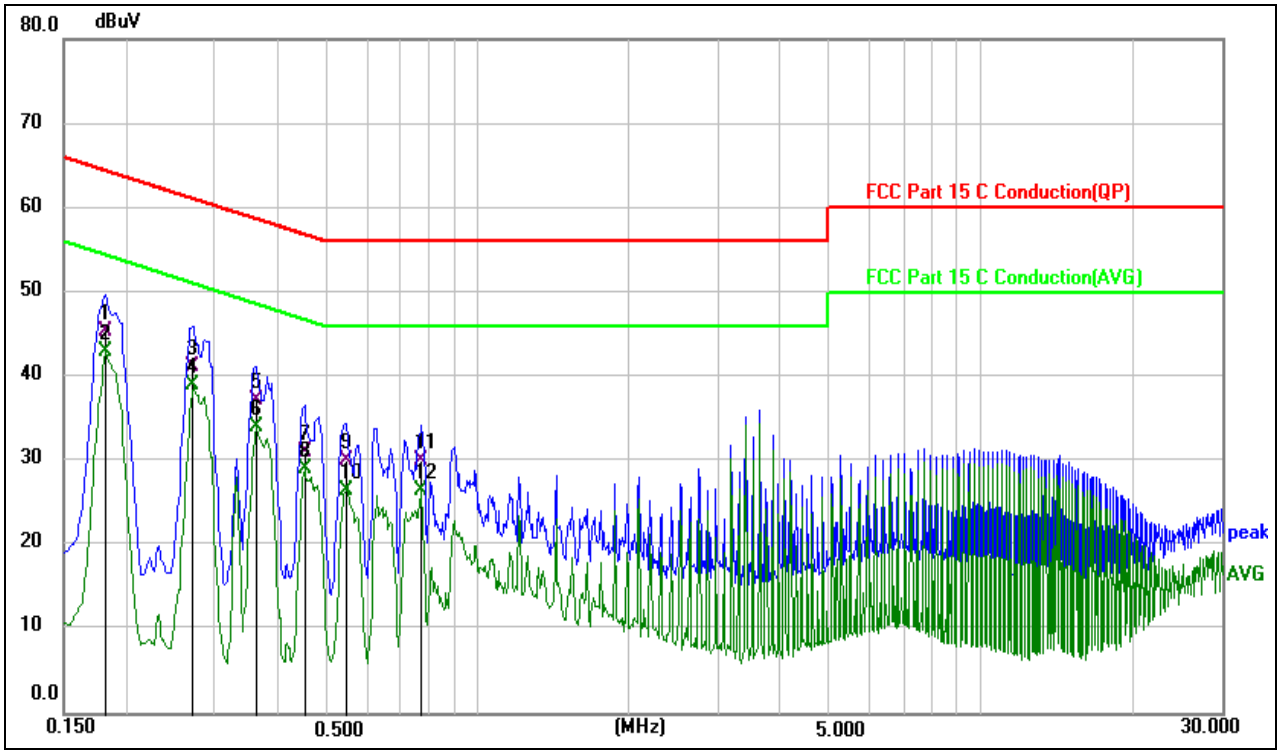
Operation Mode:	TX	Test Date:	2024/2/21
Frequency Range:	0.15MHz~30MHz	Temperature:	26℃
Test Result:	PASS	Humidity:	54 %RH
Test By:	Luffy		

Test mode: Charging



Site:	**Shielding Room B-2**	**Phase: L1**	**Temperature(C): 26(C)**
Limit:	**FCC Part 15 C Conduction(QP)**		**Humidity(%): 54%RH**
EUT:	**Magnetic Wireless Powerbank**	**Test Time:**	**2024/2/21 20:28:21**
M/N.:	**WiMag**	**Power Rating:**	**AC120V/60Hz**
Mode:	**Wireless Charging Power 15W: Output 15W**	**Test Engineer:**	**Luffy**
Note:			

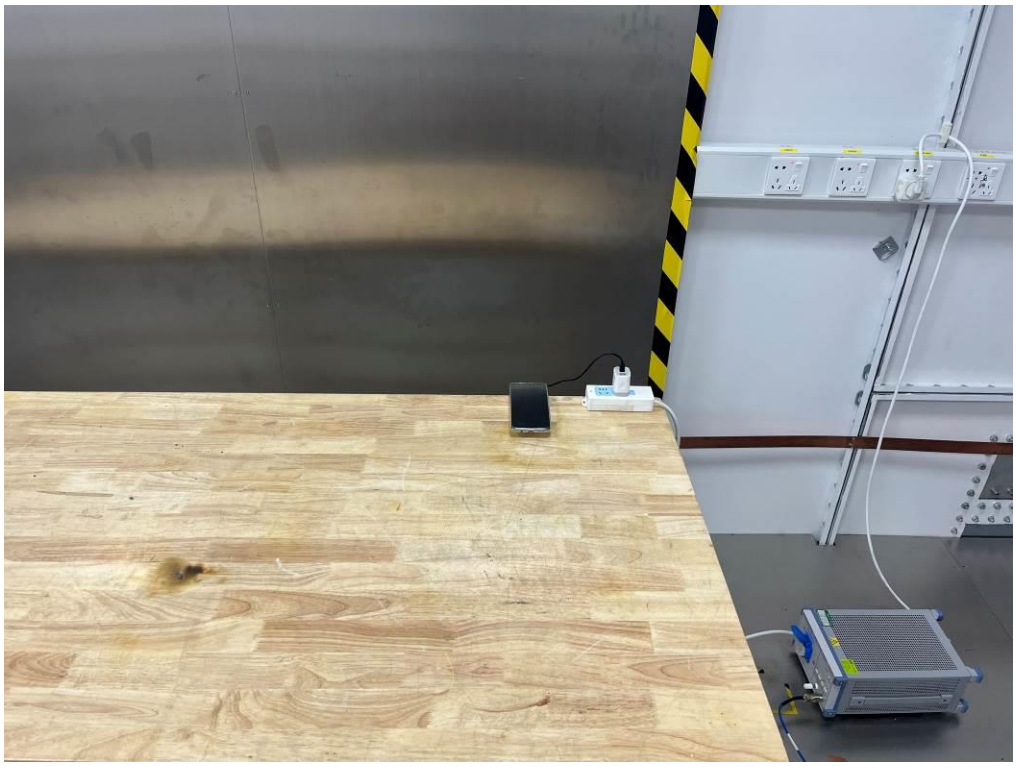
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1815	34.45	9.80	44.25	64.42	-20.17	QP
2	0.1815	32.95	9.80	42.75	54.42	-11.67	AVG
3	0.2714	31.31	9.74	41.05	61.07	-20.02	QP
4	0.2714	29.36	9.74	39.10	51.07	-11.97	AVG
5	0.3615	27.07	9.88	36.95	58.69	-21.74	QP
6	0.3615	24.32	9.88	34.20	48.69	-14.49	AVG
7	0.4515	23.32	9.93	33.25	56.85	-23.60	QP
8	0.4515	19.91	9.93	29.84	46.85	-17.01	AVG
9	0.5460	20.30	9.85	30.15	56.00	-25.85	QP
10	0.5460	16.51	9.85	26.36	46.00	-19.64	AVG
11	0.8115	21.33	9.91	31.24	56.00	-24.76	QP
12	0.8115	16.41	9.91	26.32	46.00	-19.68	AVG



Site:	**Shielding Room B-2**	**Phase: N**	**Temperature(C): 26(C)**
Limit:	**FCC Part 15 C Conduction(QP)**		**Humidity(%): 54%RH**
EUT:	**Magnetic Wireless Powerbank**	**Test Time:**	**2024/2/21 20:25:43**
M/N.:	**WiMag**	**Power Rating:**	**AC120V/60Hz**
Mode:	**Wireless Charging Power 15W: Output 15W**	**Test Engineer:**	**Luffy**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1815	35.53	9.75	45.28	64.42	-19.14	QP
2	0.1815	33.26	9.75	43.01	54.42	-11.41	AVG
3	0.2714	31.50	9.78	41.28	61.07	-19.79	QP
4	0.2714	29.22	9.78	39.00	51.07	-12.07	AVG
5	0.3615	27.48	9.76	37.24	58.69	-21.45	QP
6	0.3615	24.26	9.76	34.02	48.69	-14.67	AVG
7	0.4515	21.23	9.82	31.05	56.85	-25.80	QP
8	0.4515	19.34	9.82	29.16	46.85	-17.69	AVG
9	0.5460	20.19	9.92	30.11	56.00	-25.89	QP
10	0.5460	16.67	9.92	26.59	46.00	-19.41	AVG
11	0.7710	20.17	9.84	30.01	56.00	-25.99	QP
12	0.7710	16.58	9.84	26.42	46.00	-19.58	AVG

5.6 Conducted Measurement Photo



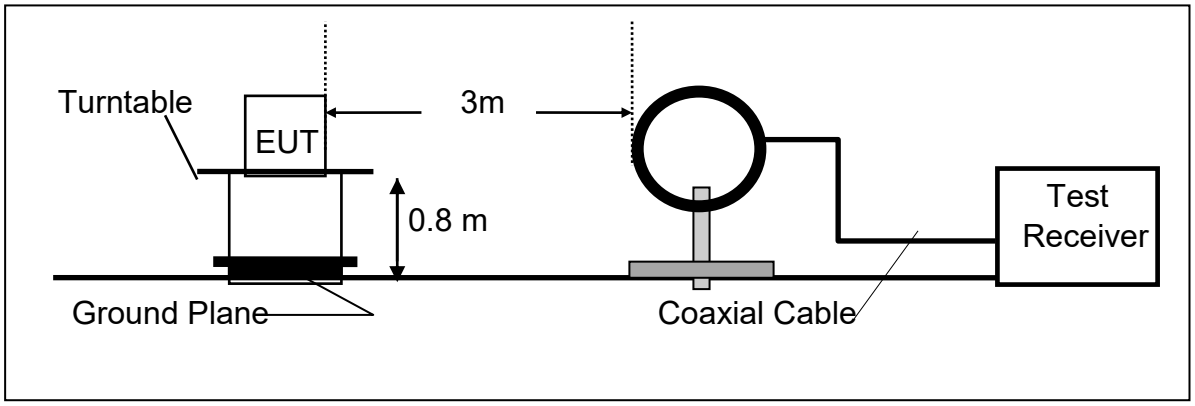
6 Radiated Emission Test

6.1 Measurement Procedure

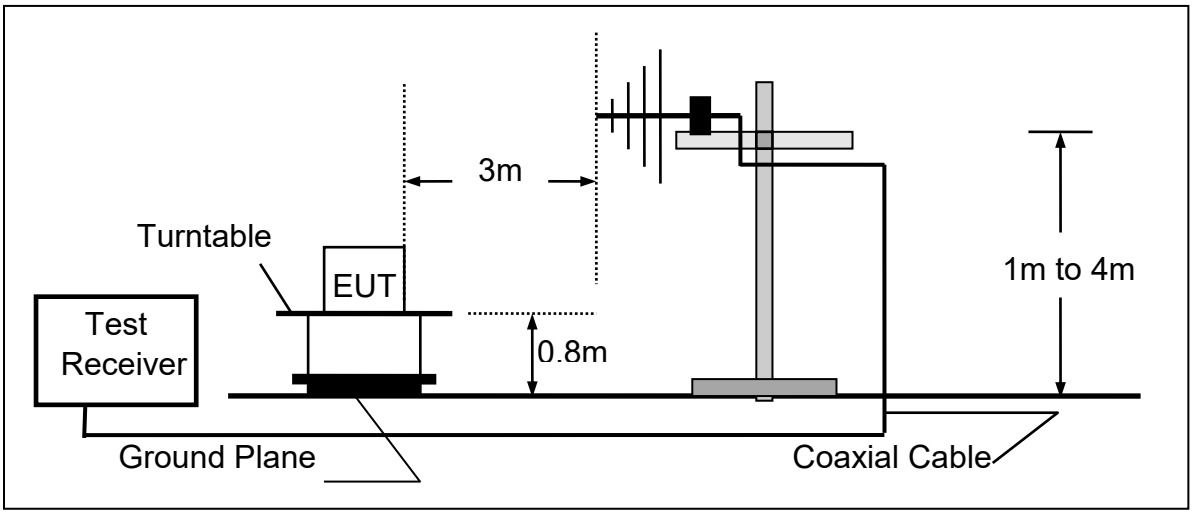
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

6.2 Test SET-UP (Block Diagram of Configuration)

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



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



6.3 Measurement Equipment Used

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2146	2022/08/30	2025/08/29
EMI Test Receiver	Rohde & Schwarz	ESCI3	101409	2023/09/18	2024/09/17
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2023/09/18	2024/09/17
Pre-Amplifier	HzEMC	HPA-9K0130	HYPA21001	2023/09/18	2024/09/17
Biconilog Antenna	Schwarzbeck	VULB 9168	01315	2022/10/10	2025/10/09
Biconilog Antenna	ETS	3142E	00243646	2022/03/23	2025/03/22
Loop Antenna	ETS	6502	243668	2022/03/30	2025/03/29
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE)	N/A	N/A	N/A

6.4 Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

FCC Part 15.209				
Frequency (MHz)	Field Strength Limitation		Field Strength Limitation Frequency tion at 3m Measurement Dist	
	(uV/m)	Dist	(uV/m)	(dBuV/m)
0.009 – 0.490	2400 / F(KHz)	300m	10000 * 2400/F(KHz)	20log 2400/F(KHz) + 80
0.490 – 1.705	24000 / F(KHz)	30m	100 * 24000/F(KHz)	20log 24000/F(KHz) + 40
1.705 – 30.00	30	30m	100* 30	20log 30 + 40
30.0 – 88.0	100	3m	100	20log 100
88.0 – 216.0	150	3m	150	20log 150
216.0 – 960.0	200	3m	200	20log 200
Above 960.0	500	3m	500	20log 500

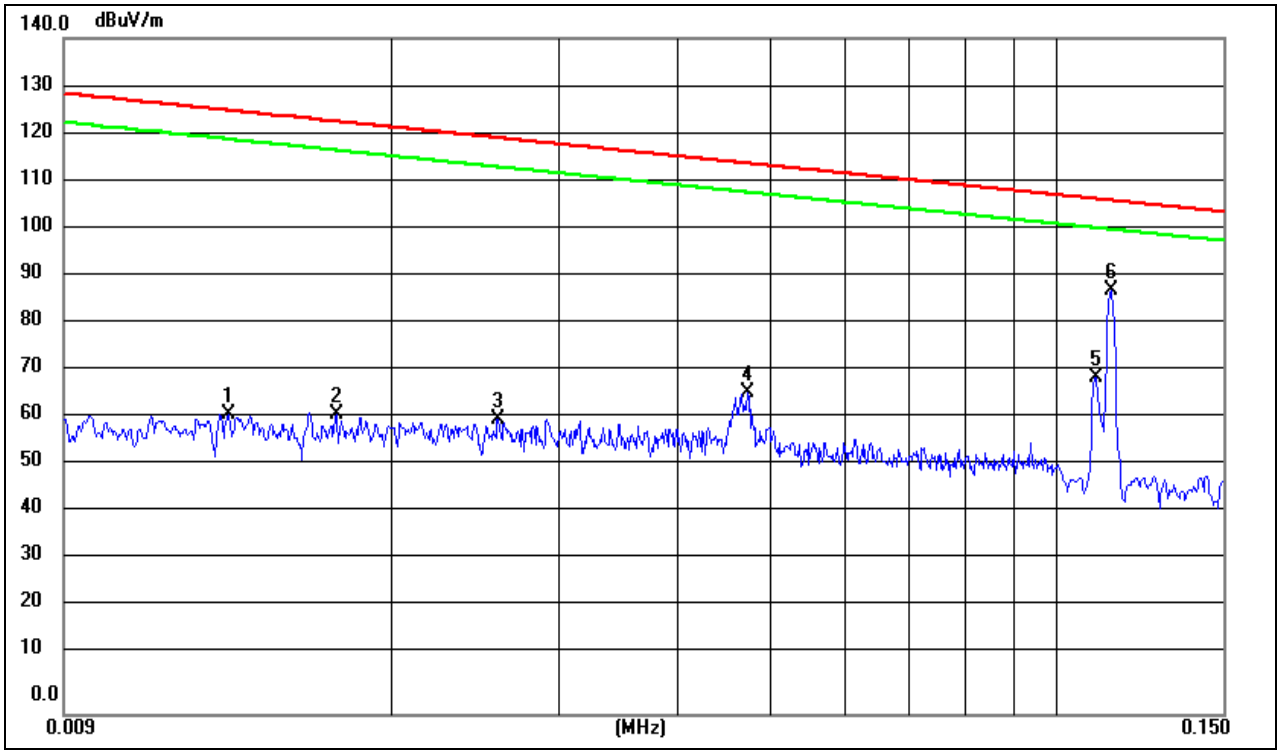
15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])

Remark: 1. Emission level in dBuV/m=20 log (uV/m)
2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

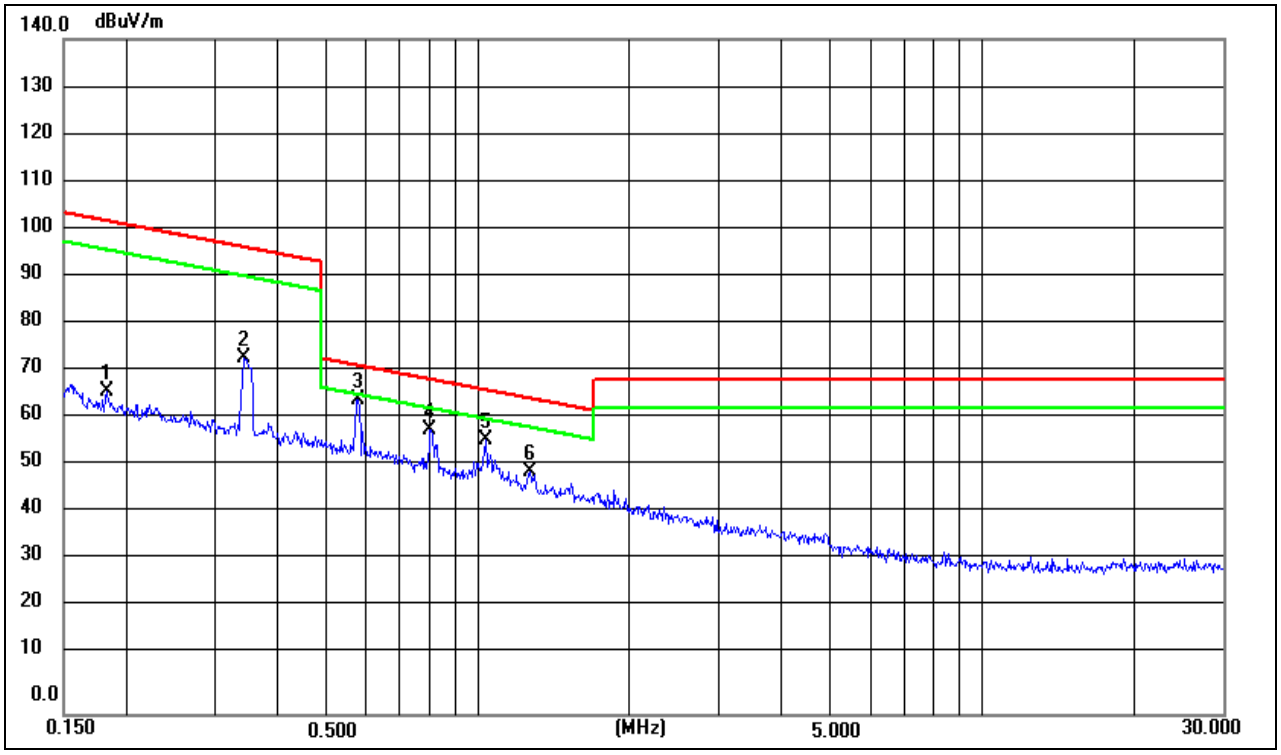
6.5 Measurement Result

We pretested modes (Wireless Charging(15W), Wireless Charging(10W), Wireless Charging(7.5W), Wireless Charging(5W), for EUT.
The worst mode Wireless Charging(15W) test data see follow the table.



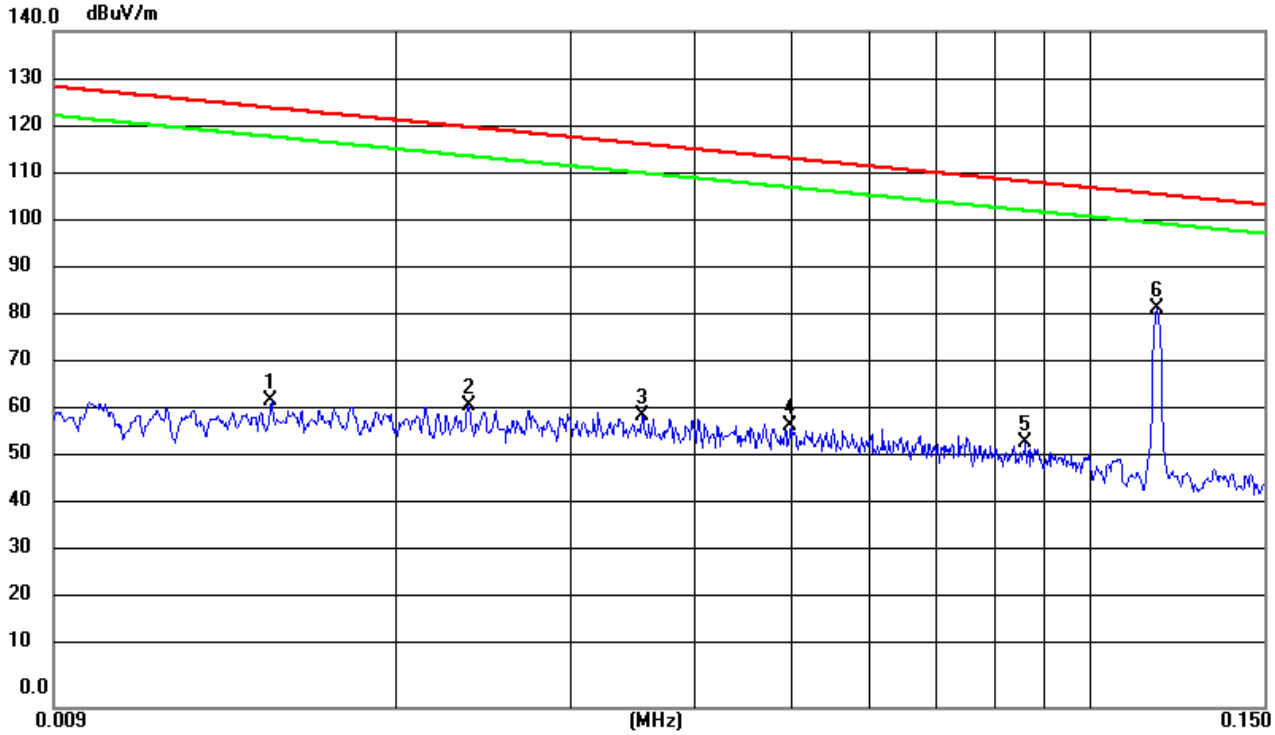
Site:		**Antenna: coaxial**	**Temperature(C):24.3(C)**
Limit:	**FCC Part 15.209 3m Radiation(QP)9K-30MH**		**Humidity(%):53.2%**
EUT:	**Magnetic Wireless Powerbank**	**Test Time:**	**2024/02/23 15:39:04**
M/N.:	**WiMag**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging Power 15W: Output 15W**	**Test Engineer:**	**Yolo**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.0134	41.93	20.38	62.31	125.04	-62.73	peak	
2	0.0174	41.95	20.33	62.28	122.78	-60.50	peak	
3	0.0258	40.97	20.21	61.18	119.36	-58.18	peak	
4	0.0473	46.84	19.97	66.81	114.10	-47.29	peak	
5	0.1101	50.36	19.54	69.90	106.76	-36.86	peak	
6 *	0.1142	68.41	19.56	87.97	106.44	-18.47	peak	



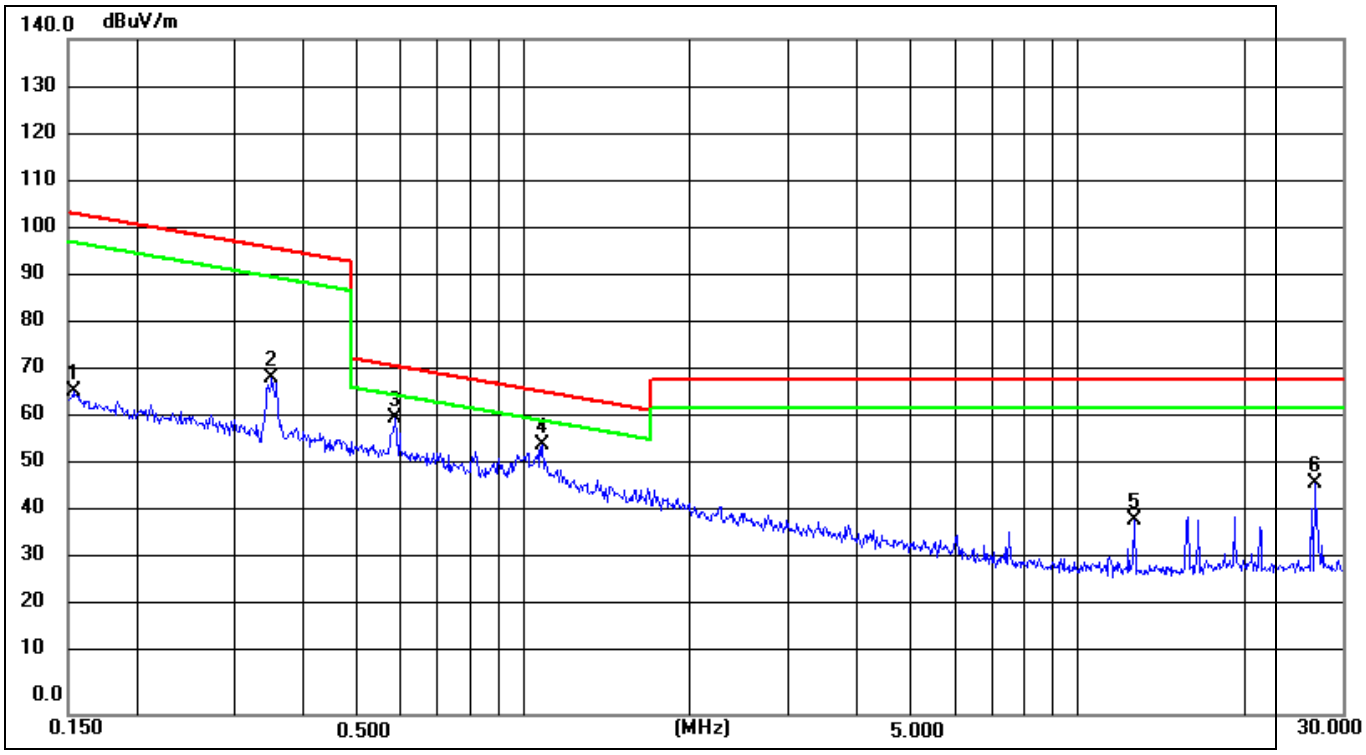
Site:		**Antenna: coaxial**	**Temperature(C):24.3(C)**
Limit:	**FCC Part 15.209 3m Radiation(QP)9K-30MH**		**Humidity(%):53.2%**
EUT:	**Magnetic Wireless Powerbank**	**Test Time:**	**2024/02/23 15:41:41**
M/N.:	**WiMag**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging Power 15W: Output 15W**	**Test Engineer:**	**Yolo**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.1825	47.57	19.64	67.21	102.37	-35.16	peak	
2	0.3428	54.52	19.61	74.13	96.90	-22.77	peak	
3 *	0.5762	45.85	19.57	65.42	72.40	-6.98	peak	
4	0.8002	39.47	19.50	58.97	69.55	-10.58	peak	
5	1.0320	37.55	19.44	56.99	67.35	-10.36	peak	
6	1.2621	31.06	19.46	50.52	65.61	-15.09	peak	



Site:		**Antenna: coplaner**	**Temperature(C):24.3(C)**
Limit:	**FCC Part 15.209 3m Radiation(QP)9K-30MH**		**Humidity(%):53.2%**
EUT:	**Magnetic Wireless Powerbank**	**Test Time:**	**2024/02/23 15:58:50**
M/N.:	**WiMag**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging Power 15W: Output 15W**	**Test Engineer:**	**Yolo**
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Comment
1	0.0149	43.12	20.36	63.48	124.12	-60.64	peak	
2	0.0236	42.15	20.24	62.39	120.13	-57.74	peak	
3	0.0353	40.36	20.09	60.45	116.64	-56.19	peak	
4	0.0499	38.38	19.94	58.32	113.63	-55.31	peak	
5	0.0862	35.19	19.72	54.91	108.89	-53.98	peak	
6 *	0.1171	63.08	19.58	82.66	106.23	-23.57	peak	

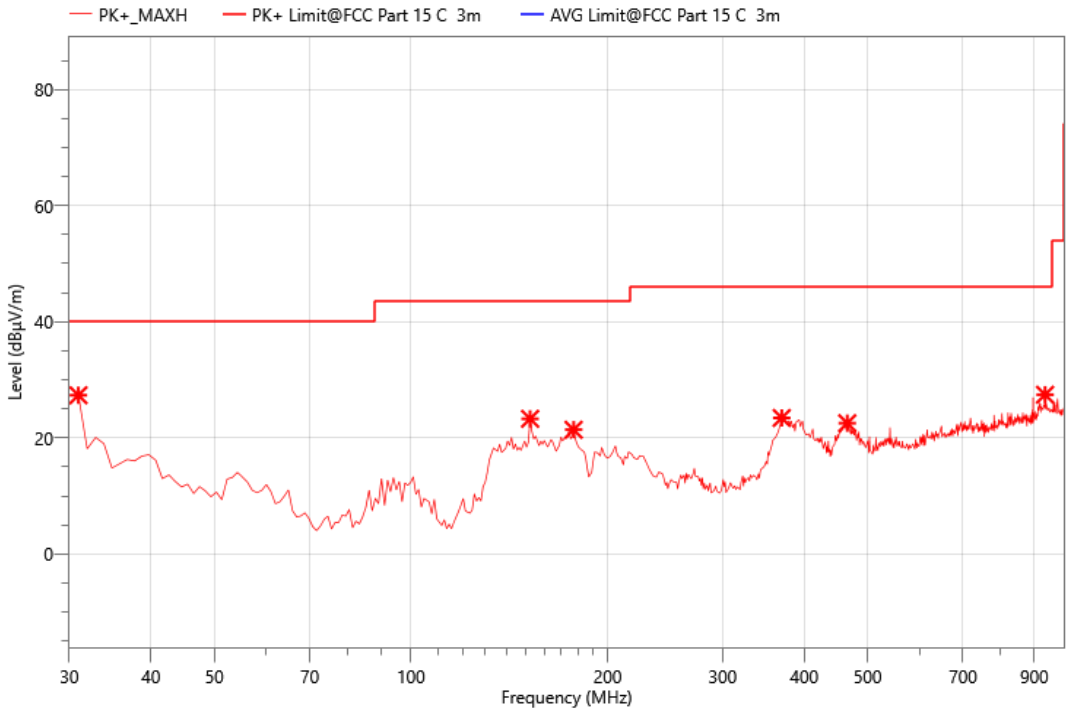


Site:		**Antenna: coplaner**	**Temperature(C):24.3(C)**
Limit:	**FCC Part 15.209 3m Radiation(QP)9K-30MH**		**Humidity(%):53.2%**
EUT:	**Magnetic Wireless Powerbank**	**Test Time:**	**2024/02/23 15:56:46**
M/N.:	**WiMag**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging Power 15W: Output 15W**	**Test Engineer:**	**Yolo**
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Comment
1	0.1532	47.44	19.65	67.09	103.89	-36.80	peak	
2	0.3502	50.14	19.61	69.75	96.72	-26.97	peak	
3 *	0.5854	41.80	19.57	61.37	72.26	-10.89	peak	
4	1.0766	36.52	19.44	55.96	66.98	-11.02	peak	
5	12.5821	20.24	20.20	40.44	69.50	-29.06	peak	
6	26.6992	27.40	20.51	47.91	69.50	-21.59	peak	

Note: (1) All Readings are Peak Value.
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3) The average measurement was not performed when the peak measured data under the limit of average detection.
(4) EUT lying on the table position is the worst case result in the report.

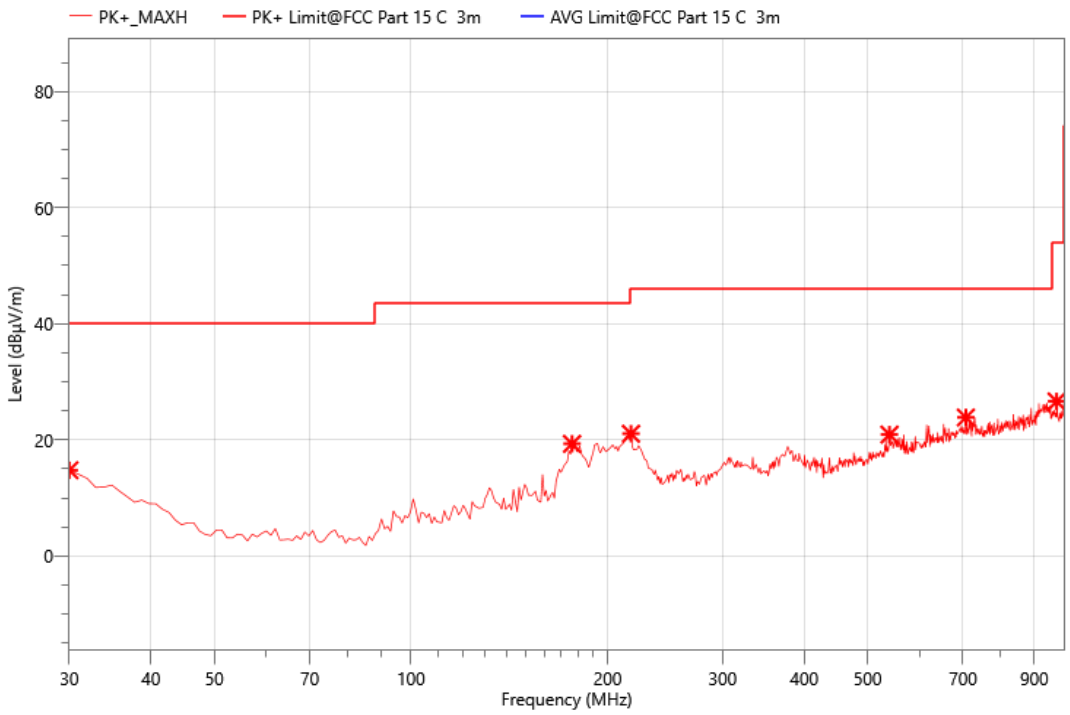
Mode:	Wireless Charging Power 15W: Output 15W
Power:	AC 120V/60Hz
TE:	Big
Date	2024/02/21
T/A/P	23.2°C/54%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	30.970	42.15	-14.8	27.35	40.00	12.65	PK+	V
2	152.220	45.42	-22.13	23.29	43.50	20.21	PK+	V
3	177.440	43.52	-22.12	21.40	43.50	22.10	PK+	V
4	369.500	38.89	-15.46	23.43	46.00	22.57	PK+	V
5	465.530	36.06	-13.53	22.53	46.00	23.47	PK+	V
6	935.010	30.52	-3.08	27.44	46.00	18.56	PK+	V

Mode:	Wireless Charging Power 15W: Output 15W
Power:	AC 120V/60Hz
TE:	Big
Date	2024/02/21
T/A/P	23.2°C/54%/101Kpa



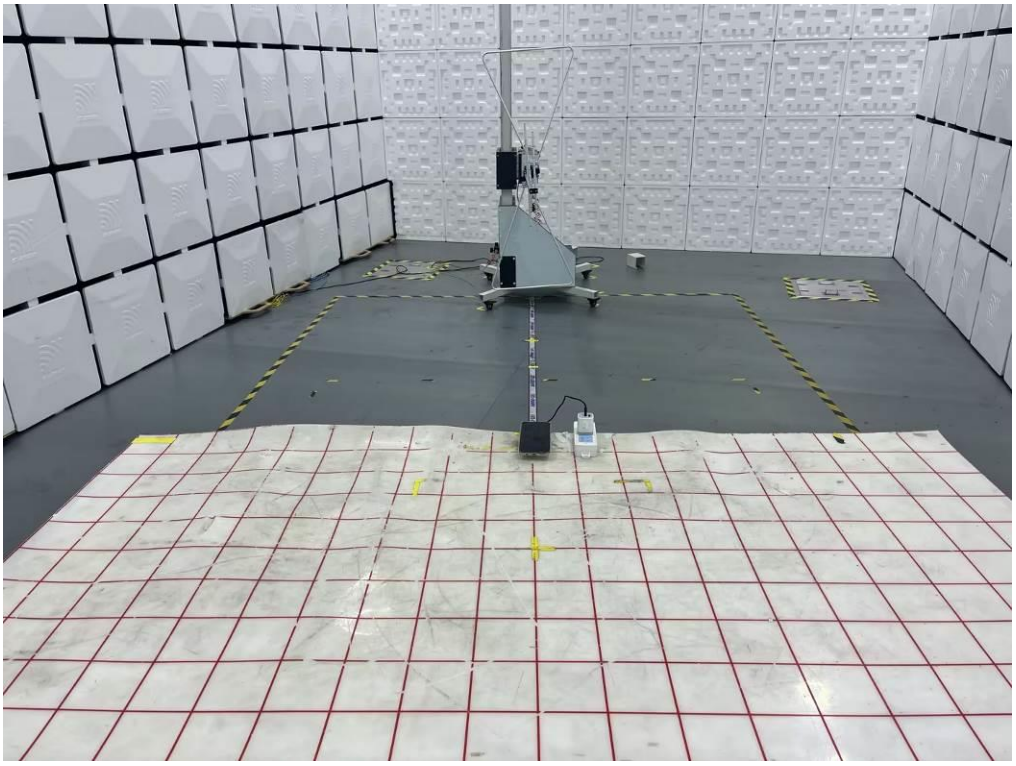
Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	30.000	29.05	-14.27	14.78	40.00	25.22	PK+	H
2	176.470	41.54	-22.22	19.32	43.50	24.18	PK+	H
3	217.210	41.97	-20.91	21.06	46.00	24.94	PK+	H
4	540.220	31.17	-10.25	20.92	46.00	25.08	PK+	H
5	707.060	31.06	-7.2	23.86	46.00	22.14	PK+	H
6	973.810	30.36	-3.73	26.63	53.90	27.27	PK+	H

6.6 Radiated Measurement Photos

9kHz-30MHz

30MHz-1GHz



7 20db Bandwidth

7.1 20dB Bandwidth Limit

None: for reporting purposed only.

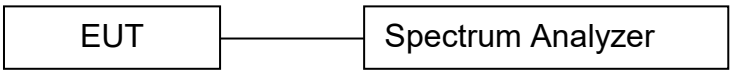
7.2 Test Instruments

Refer a test equipment and calibration data table in this test report.

7.3 Test Procedure

The bandwidth of the fundamental frequency was measured by spectrum analyzer with 1KHz RBW and 3KHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

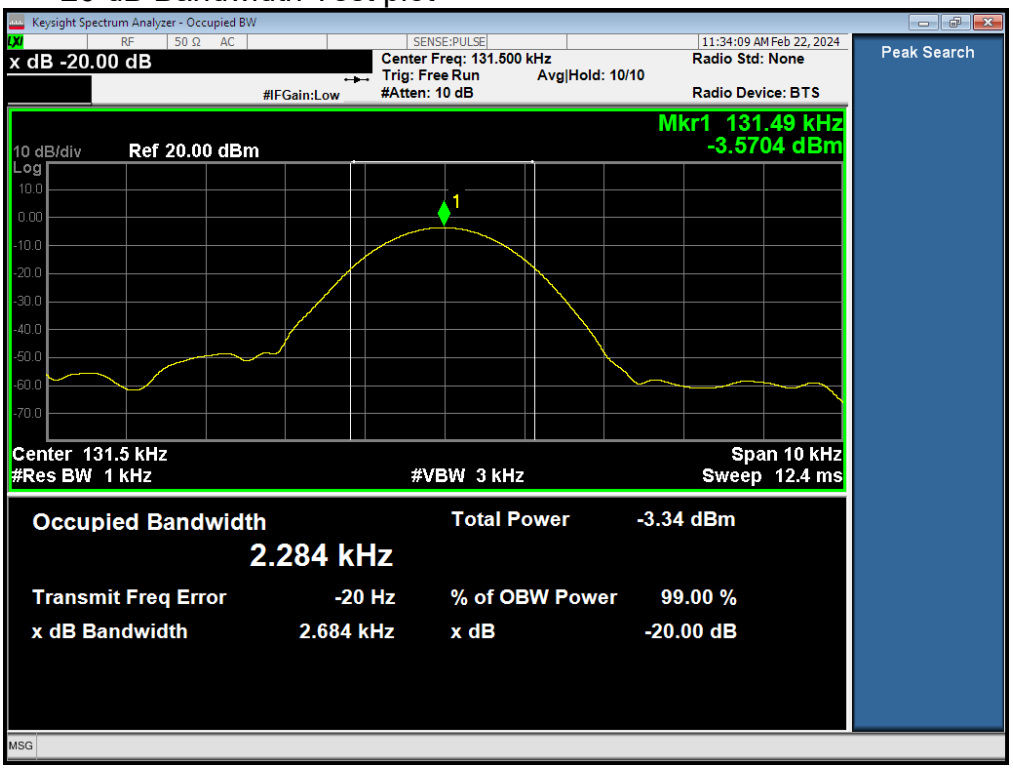
7.4 Test Setup



7.5 Test Result

Frequency(KHz)	20dB Bandwidth(KHz)	Results
131.5	2.684	PASS

20 dB Bandwidth Test plot



8 Antenna Application

8.1 Antenna requirement

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.

8.2 Result

The EUT's antenna, permanent attached antenna, used an Induction coil and integrated on PCB, The antenna's gain meets the requirement.

APPENDIX

(Photos of EUT)

External-1

External-2

External-3

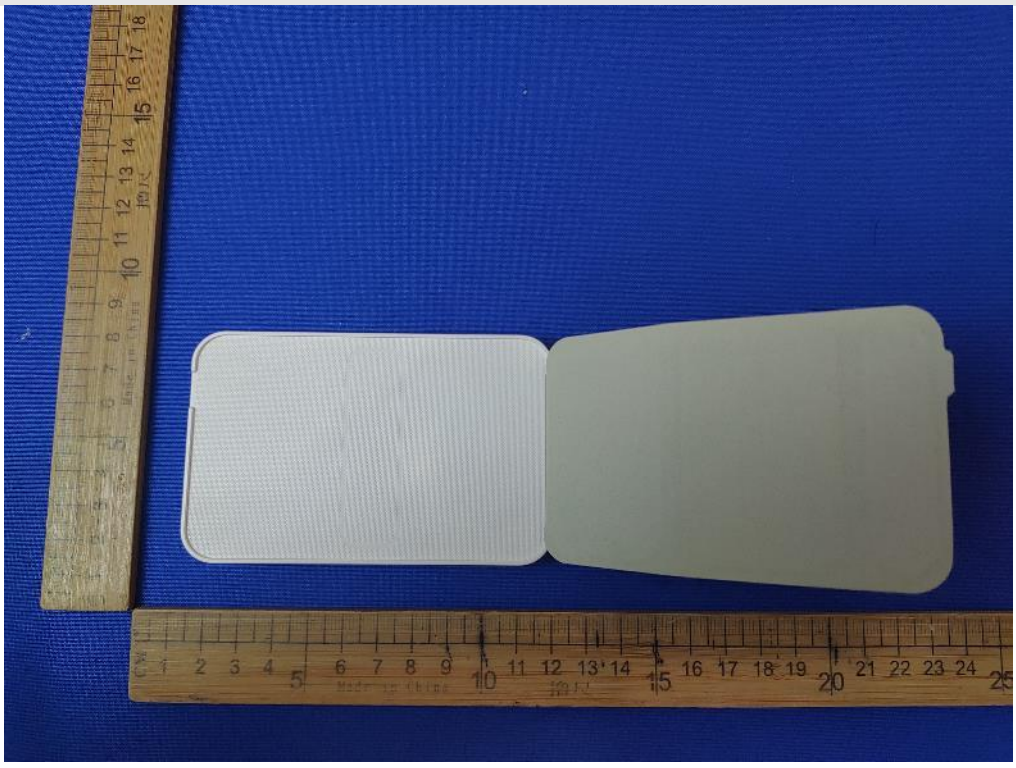
External-4

External-5

External-6

External-7

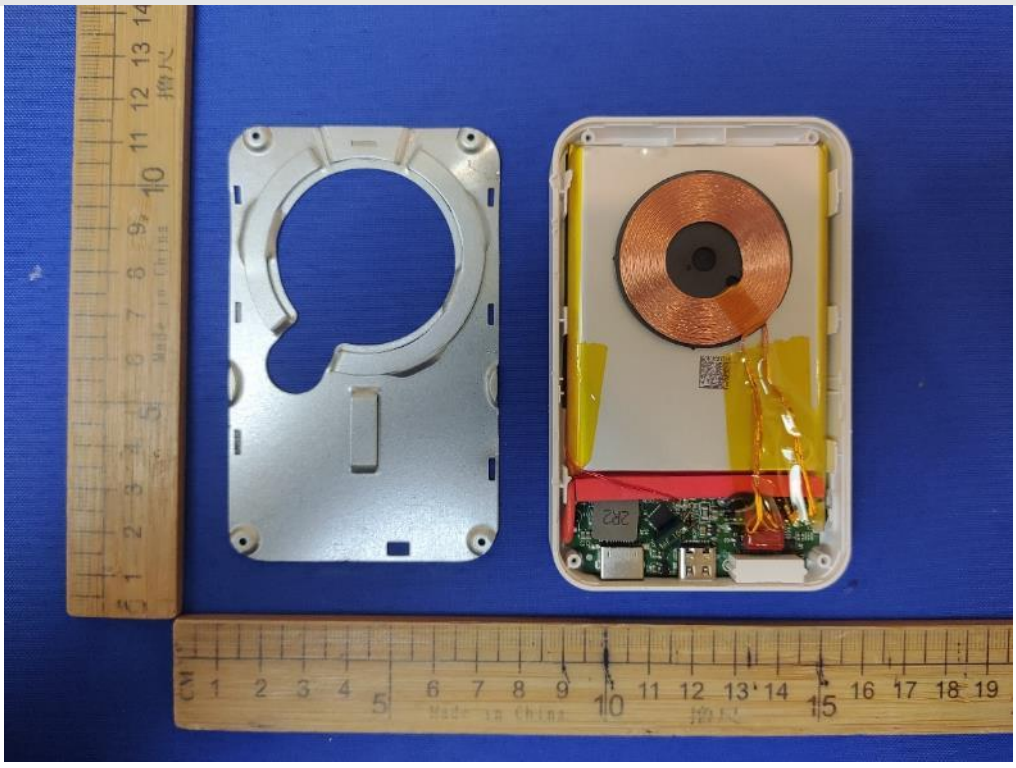
External-8



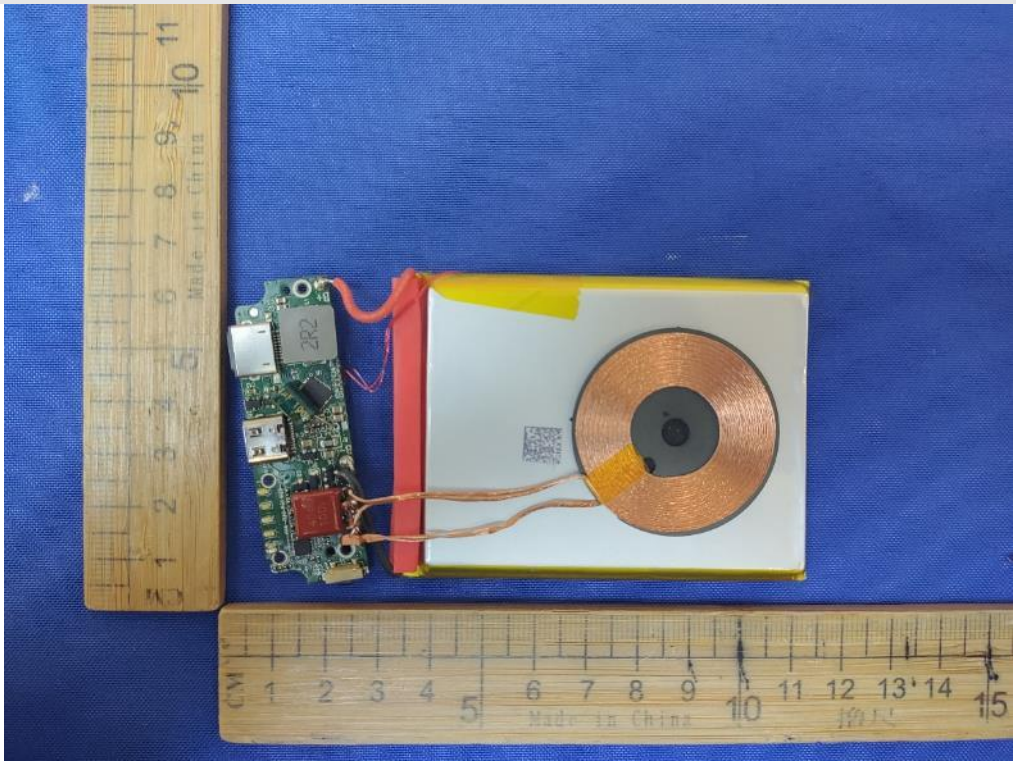
External-9

Internal-1

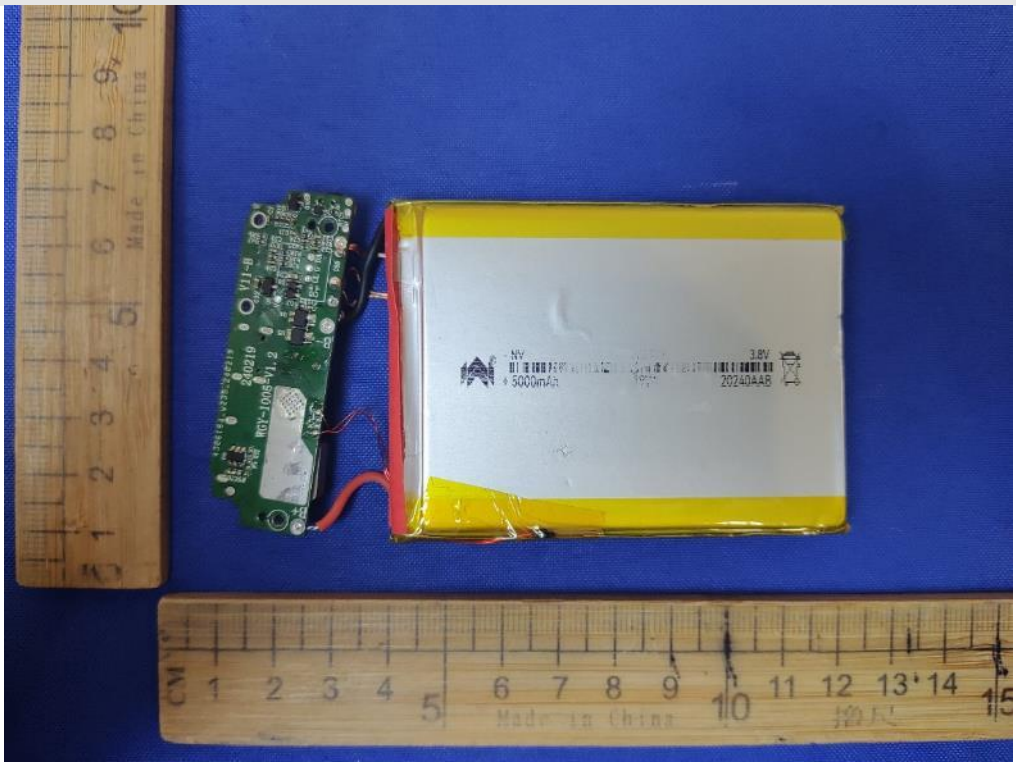
Internal-2



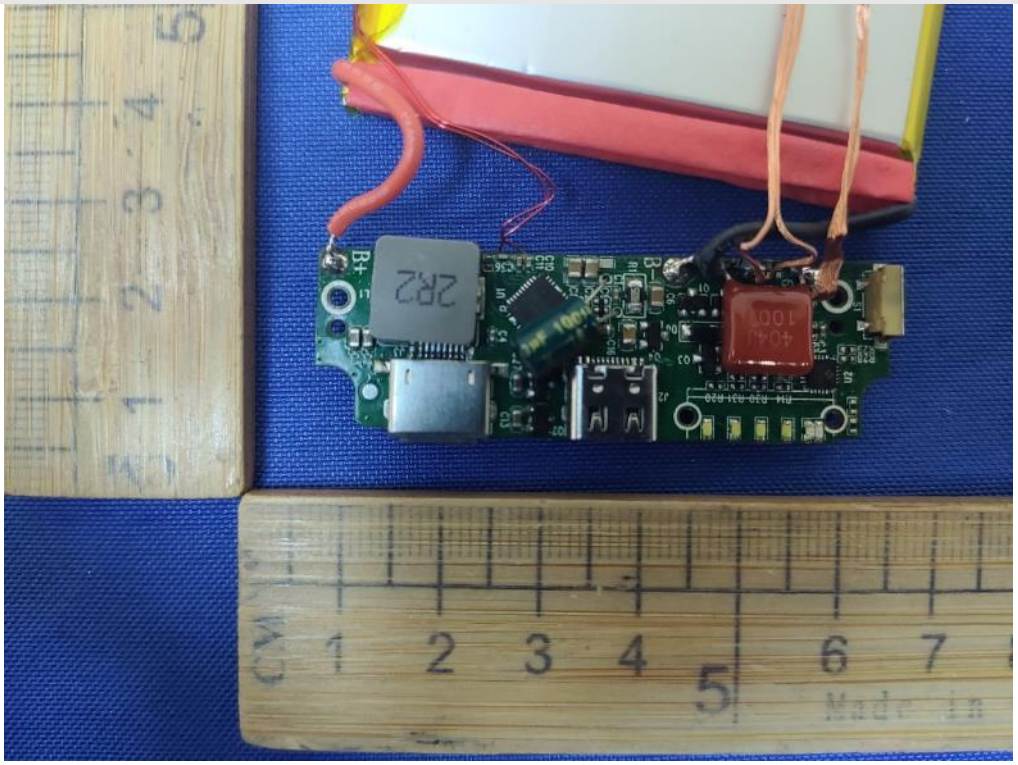
Internal-3



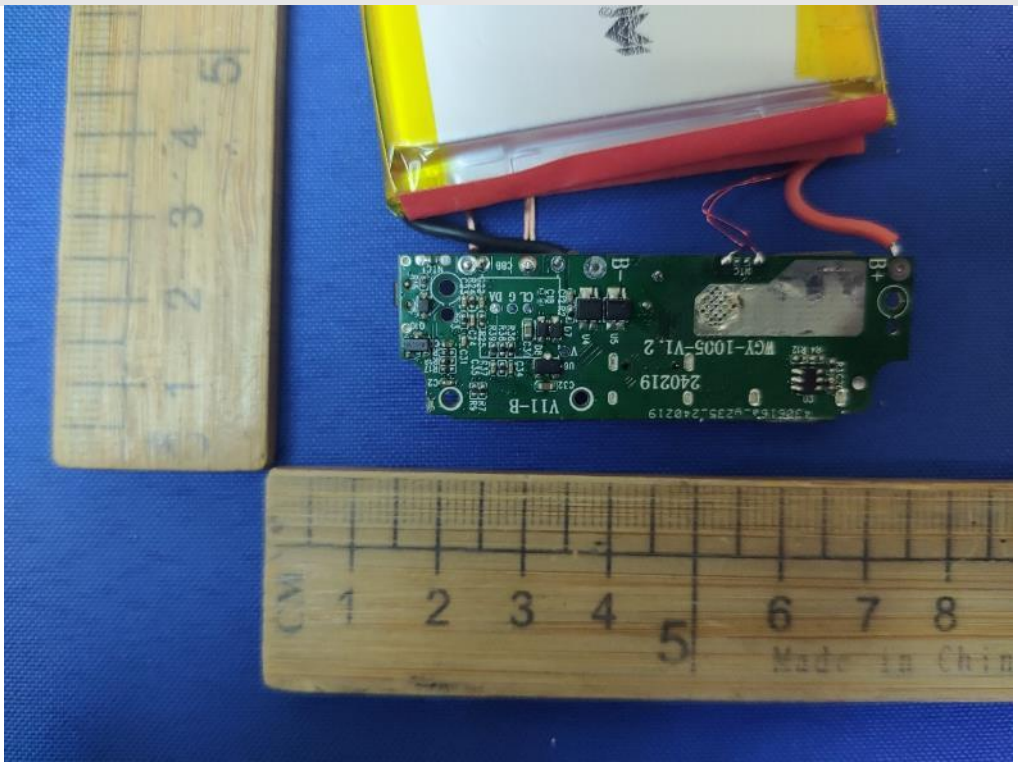
Internal-4



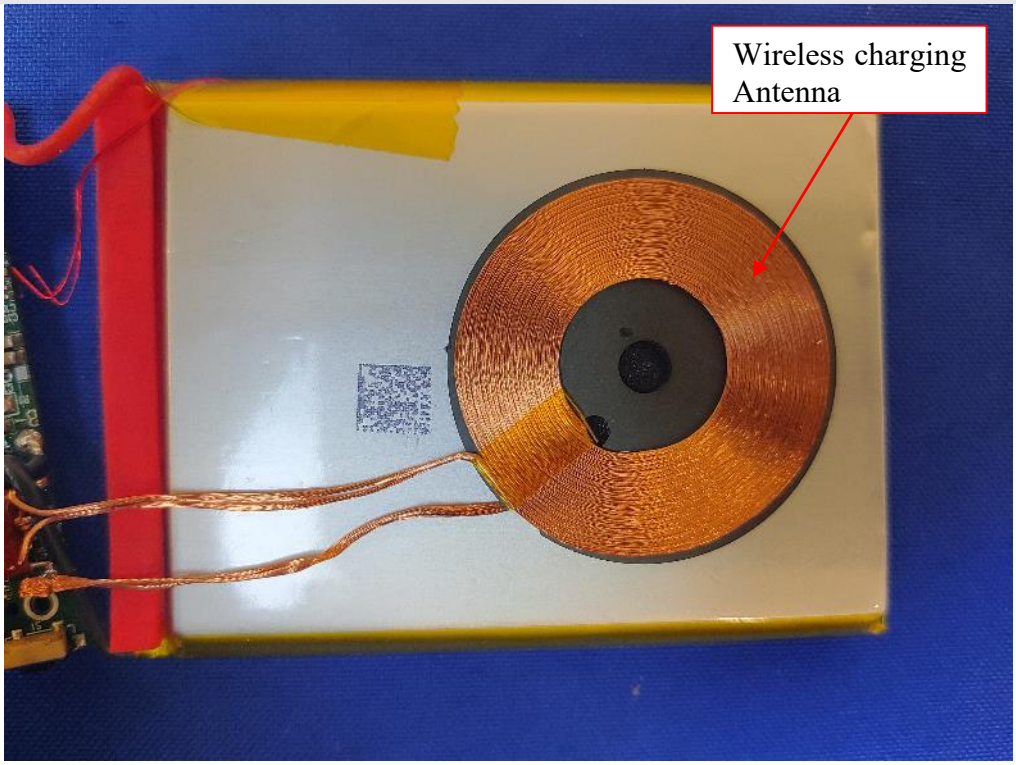
Internal-5



Internal-6



Internal-7



Internal-8

--- END OF REPORT---