



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

OF

Power Bank

Model No.: MagS-1

FCC ID: 2BCJZMAGS-1

Report No.: E04A24070875F00101

Issue Date: August 05, 2024

Prepared for

Shenzhen MOPO Electronic Technology Co., Ltd

**Room 212, Longhai Business Center, Longfeng 1 Road, Longhua
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Prepared by

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523808**

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Guangdong Global Testing Technology Co., Ltd.**

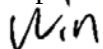
VERIFICATION OF COMPLIANCE

Applicant:	Shenzhen MOPO Electronic Technology Co., Ltd Room 212, Longhai Business Center, Longfeng 1 Road, Longhua Street, Longhua District, Shenzhen, China
Manufacturer:	DONGGUAN MOPO NEW ENERGY TECH. CO., LTD. Room 701, Floor 7, Building L, Fengzhimei Industrial Zone, golden phoenix Avenue, Fenggang Town, Dongguan City
Product Description:	Power Bank
Trade Mark:	ULIXWH
Model Number:	MagS-1

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).

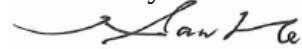
Prepared By:



Win

Project Engineer

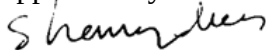
Checked By:



Alan He

Laboratory Leader

Approved By:



Shawn Wen

Laboratory Manager



Modified Information

Version	Summary	Revision Date	Report No.
Ver.1.0	Original Report	/	E04A24070875F00101

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1 General Information

1.1 Product Description

Characteristics	Description
Product Name	Power Bank
Model number	MagS-1
Operation Mode	Wireless Charging
Input Rating	5V $\Rightarrow$ 3A, 9V $\Rightarrow$ 2A
Power Supply	DC 9V
Operating Frequency	110-205KHz
Wireless Charging Power	15W(Max)
Modulation Technique	FSK
Antenna Type	Coil Antenna
Software version	/
Hardware version	/
Sample receipt date	July 25, 2024

1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: 2BCJZMAGS-1 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.
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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 placed on a 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 placed on a 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

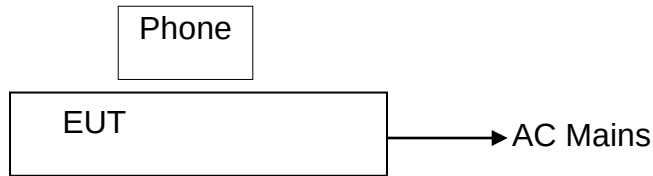


Table 2-1 Equipment Used in Tested System

Item	Equipment	Trade Mark	Model No.	FCC ID	Note
1.	Power Bank	/	MagS-1	2BCJZMAGS-1	<i>EUT</i>
2.	phone	Apple	A2176	N/A	<i>Support Equipment</i>
3.	Adapter	Xiaomi	580245A087	N/A	<i>Support Equipment</i>

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
20dB Bandwidth	$\pm 9.2\text{ppm}$
Conducted Emissions Test	$\pm 2.0\text{dB}$
Radiated Emission Test	$\pm 2.0\text{dB}$
Temperature	$\pm 0.5^{\circ}\text{C}$
Humidity	$\pm 3\%$

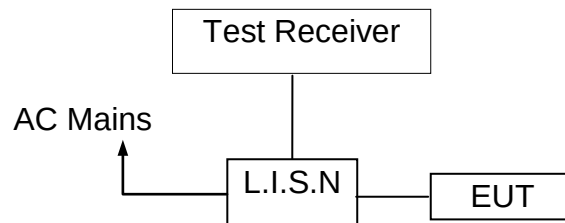
Remark: The coverage Factor ($k=2$), and measurement Uncertainty for a level of Confidence of 95%

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	2023/09/18	2024/09/17
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)

0.15-0.5

0.5-5.0

5.0-30.0

Quasi-peak

66-56

56

60

Average

56-46

46

50

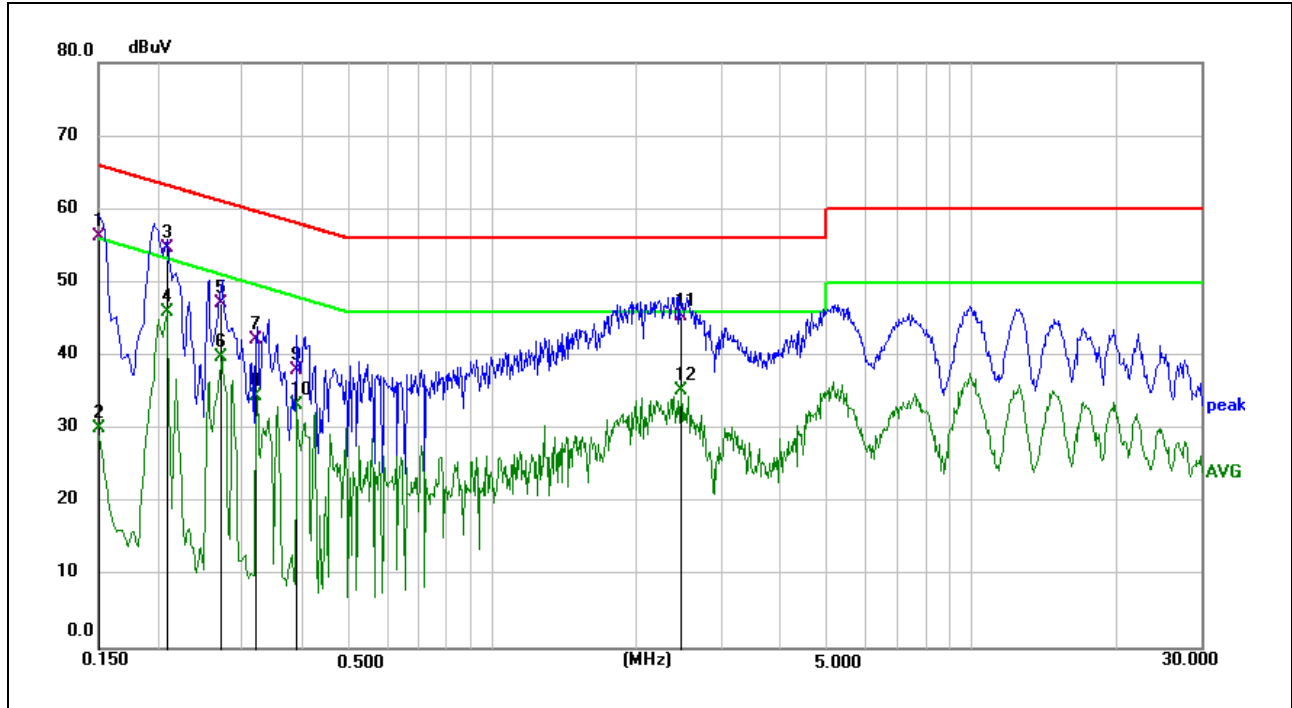
Note: 1. The lower limit shall apply at the transition frequencies

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 :	2024/7/26
Frequency Range:	0.15MHz~30MHz	Temperature :	25.5℃
Test Result:	PASS	Humidity :	54 %RH
Test By:	Fink		

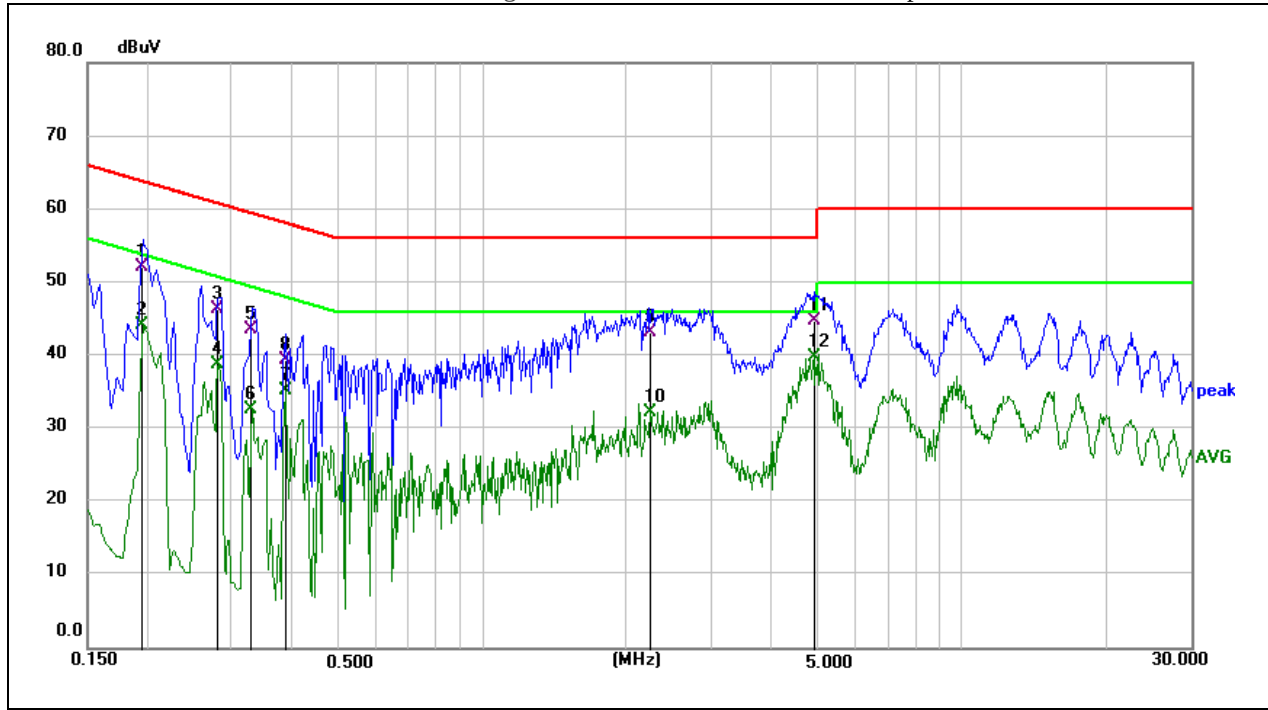
We pretested modes (Wireless Charging(15W), Wireless Charging (10W), Wireless Charging (7.5W) , Wireless Charging(5W)) for EUT. The worst test data see follow the table.

Test mode: Wireless Charging 15W

Limit: FCC Part 15 C Conduction
EUT: Power Bank
M/N.: MagS-1
Mode: Wireless Charging 15W

Phase: L1
Test Time: 2024-7-26
Power Rating: AC120V/60Hz
Test Engineer: Fink

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	46.44	9.76	56.20	66.00	-9.80	QP
2	0.1500	20.37	9.76	30.13	56.00	-25.87	AVG
3	0.2085	44.80	9.80	54.60	63.26	-8.66	QP
4	0.2085	36.17	9.80	45.97	53.26	-7.29	AVG
5	0.2714	37.46	9.74	47.20	61.07	-13.87	QP
6	0.2714	30.08	9.74	39.82	51.07	-11.25	AVG
7	0.3209	32.20	9.90	42.10	59.68	-17.58	QP
8	0.3209	24.54	9.90	34.44	49.68	-15.24	AVG
9	0.3885	28.10	9.90	38.00	58.10	-20.10	QP
10	0.3885	23.39	9.90	33.29	48.10	-14.81	AVG
11	2.4630	35.44	9.86	45.30	56.00	-10.70	QP
12	2.4630	25.38	9.86	35.24	46.00	-10.76	AVG



Limit: FCC Part 15 C Conduction
EUT: Power Bank
M/N.: MagS-1
Mode: Wireless Charging 15W

Phase: N
Test Time: 2024-7-26
Power Rating: AC120V/60Hz
Test Engineer: Fink

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1949	42.27	9.83	52.10	63.83	-11.73	QP
2	0.1949	34.40	9.83	44.23	53.83	-9.60	AVG
3	0.2805	36.50	9.80	46.30	60.80	-14.50	QP
4	0.2805	29.08	9.80	38.88	50.80	-11.92	AVG
5	0.3300	33.61	9.89	43.50	59.45	-15.95	QP
6	0.3300	22.77	9.89	32.66	49.45	-16.79	AVG
7	0.3885	25.40	9.90	35.30	48.10	-12.80	AVG
8	0.3885	29.60	9.90	39.50	58.10	-18.60	QP
9	2.2425	33.36	9.84	43.20	56.00	-12.80	QP
10	2.2425	22.43	9.84	32.27	46.00	-13.73	AVG
11	4.9155	35.01	9.79	44.80	56.00	-11.20	QP
12	4.9155	30.10	9.79	39.89	46.00	-6.11	AVG

5.6 Conducted Measurement Photo

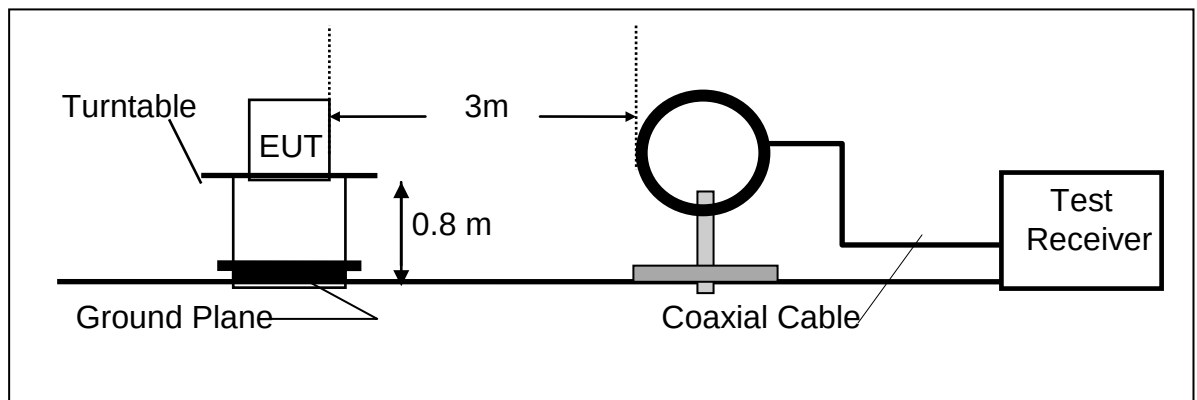
6 Radiated Emission Test

6.1 Measurement Procedure

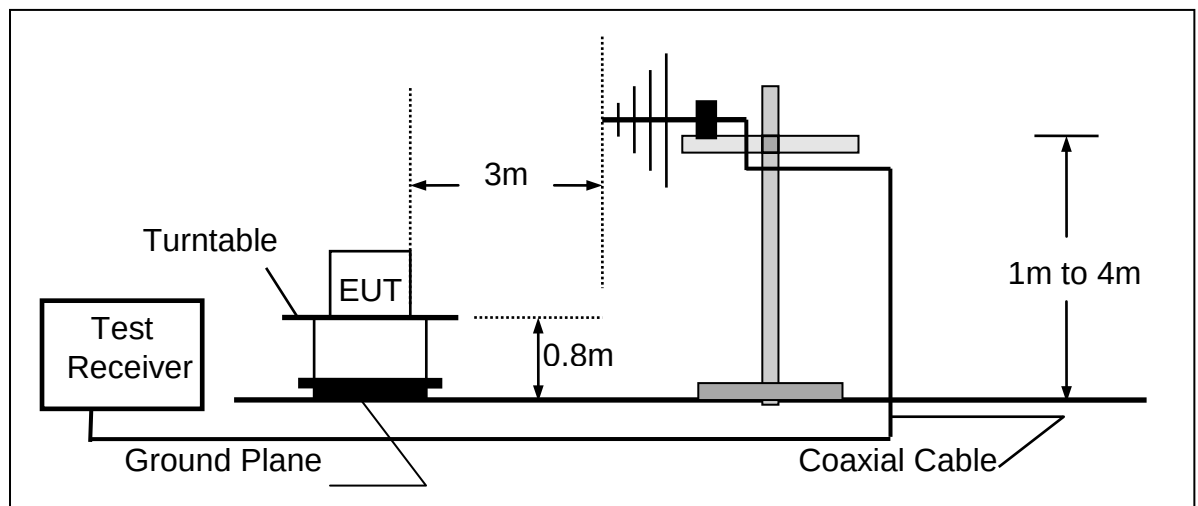
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above 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	HYP A21001	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	$2400 / F(\text{KHz})$	300m	$10000 * 2400/F(\text{KHz})$	$20\log 2400/F(\text{KHz}) + 80$
0.490 – 1.705	$24000 / F(\text{KHz})$	30m	$100 * 24000/F(\text{KHz})$	$20\log 24000/F(\text{KHz}) + 40$
1.705 – 30.00	30	30m	$100 * 30$	$20\log 30 + 40$
30.0 – 88.0	100	3m	100	$20\log 100$
88.0 – 216.0	150	3m	150	$20\log 150$
216.0 – 960.0	200	3m	200	$20\log 200$
Above 960.0	500	3m	500	$20\log 500$

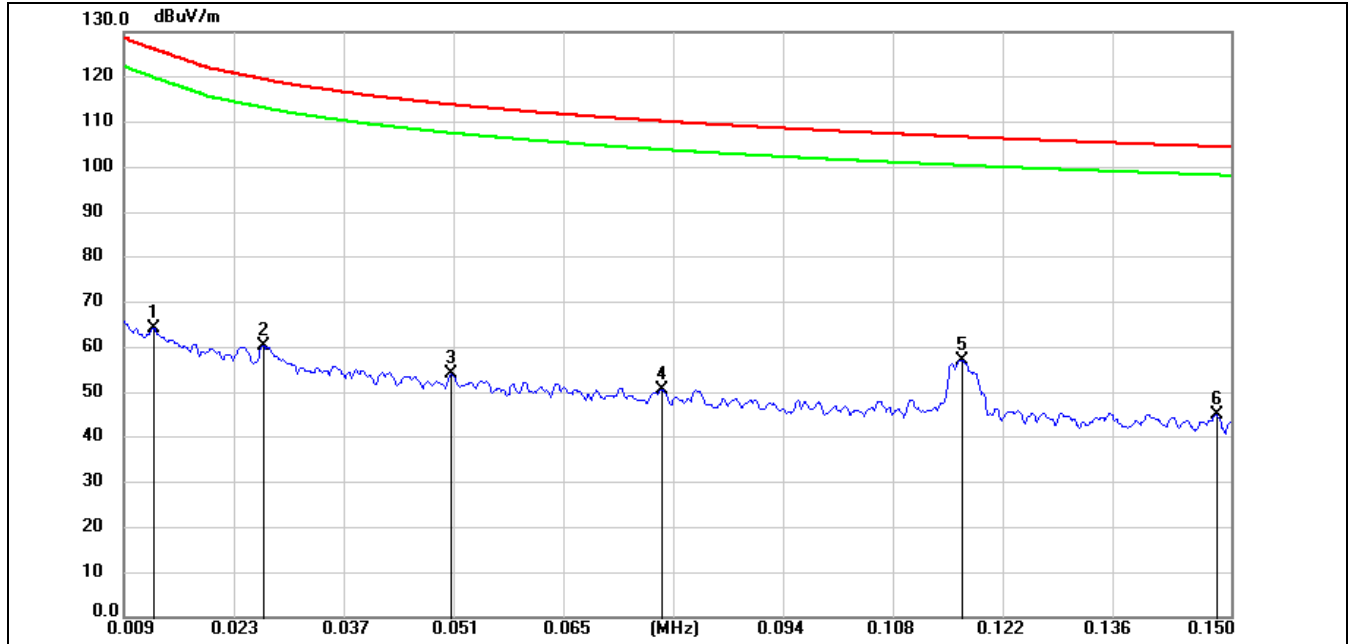
15.205 Restricted bands of operation

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 § 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

6.5 Measurement Result

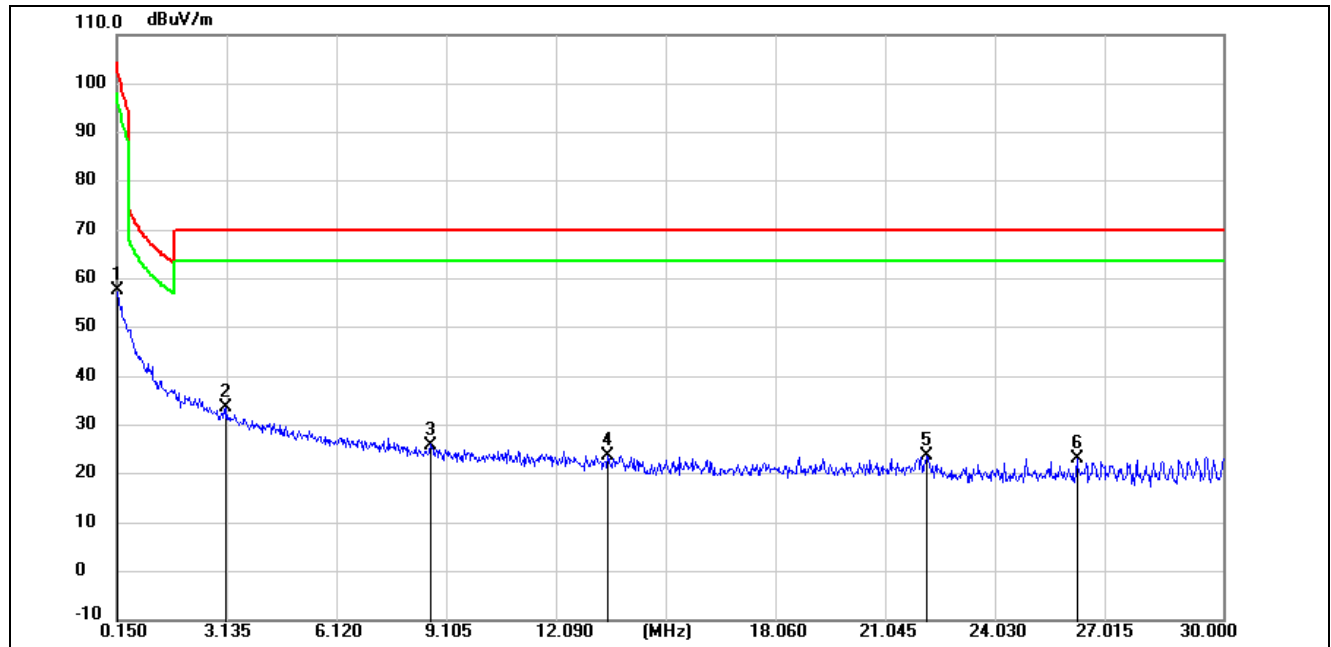
We pretested modes (Wireless Charging(15W), Wireless Charging (10W), Wireless Charging (7.5W), Wireless Charging(5W)) for EUT. The worst mode (Wireless Charging (15W)) test data see follow the table.



Limit: FCC Part 15C 3m Radiation
 EUT: Power Bank
 M/N.: MagS-1
 Mode: Wireless Charging 15W
 Test Engineer: Berny

Antenna: coaxial
 Temperature: 24.3°C
 Humidity: 53.2%RH
 Power Rating: AC 120V/60Hz
 Test Time: 2024-7-26

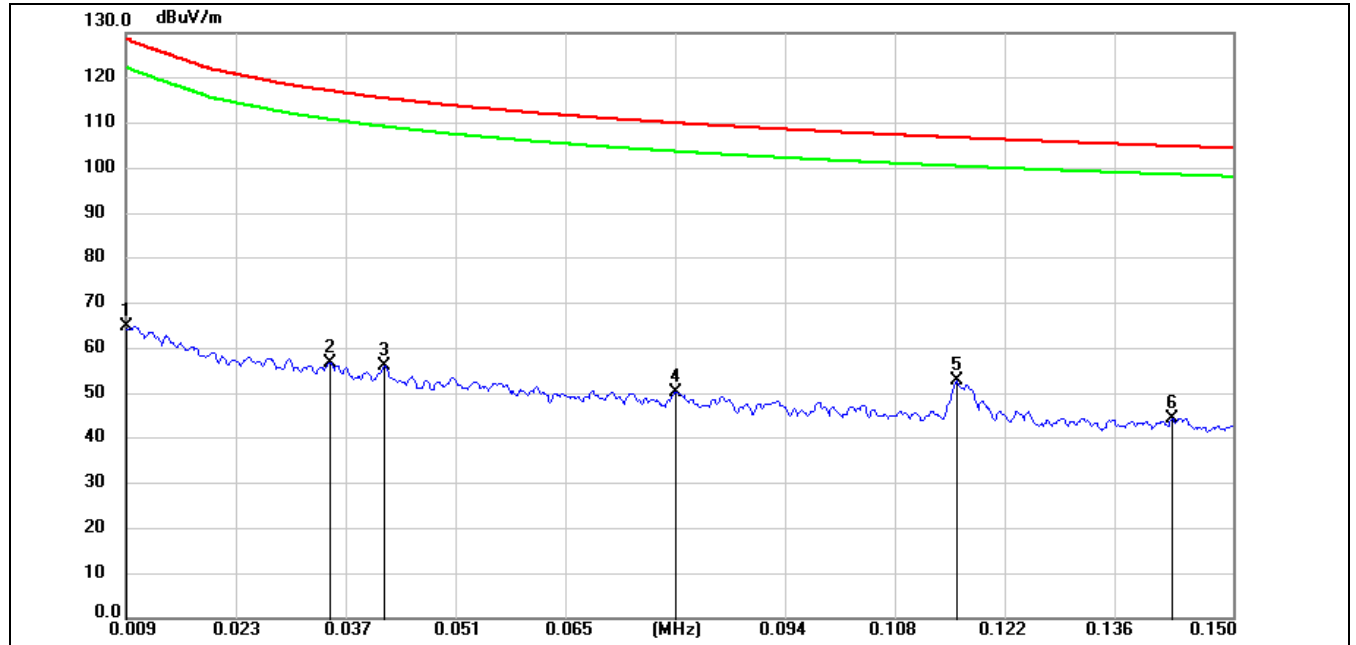
No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measurement(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	0.0128	46.92	17.33	64.25	125.91	-61.66	peak	
2	0.0268	46.86	13.55	60.41	119.19	-58.78	peak	
3	0.0507	42.54	11.46	54.00	113.51	-59.51	peak	
4	0.0775	39.59	10.96	50.55	109.83	-59.28	peak	
5	0.1157	46.39	10.75	57.14	106.35	-49.21	peak	
6	0.1482	34.21	10.68	44.89	104.19	-59.30	peak	



Limit: FCC Part 15C 3m Radiation
EUT: Power Bank
M/N.: MagS-1
Mode: Wireless Charging 15W
Test Engineer: Berny

Antenna: coaxial
Temperature: 24.3°C
Humidity: 53.2%RH
Power Rating: AC 120V/60Hz
Test Time: 2024-7-26

No .	Frequenc y (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure- ment(dBuV/m)	Limit (dBuV/m)	Margi n (dB)	Detecto r	Commen t
1	0.1500	47.03	10.68	57.71	104.08	-46.37	peak	
2	3.1052	22.88	10.72	33.60	69.54	-35.94	peak	
3	8.6274	15.08	10.92	26.00	69.54	-43.54	peak	
4	13.4034	13.01	10.73	23.74	69.54	-45.80	peak	
5	22.0002	14.11	9.79	23.90	69.54	-45.64	peak	
6	26.0598	14.11	9.11	23.22	69.54	-46.32	peak	

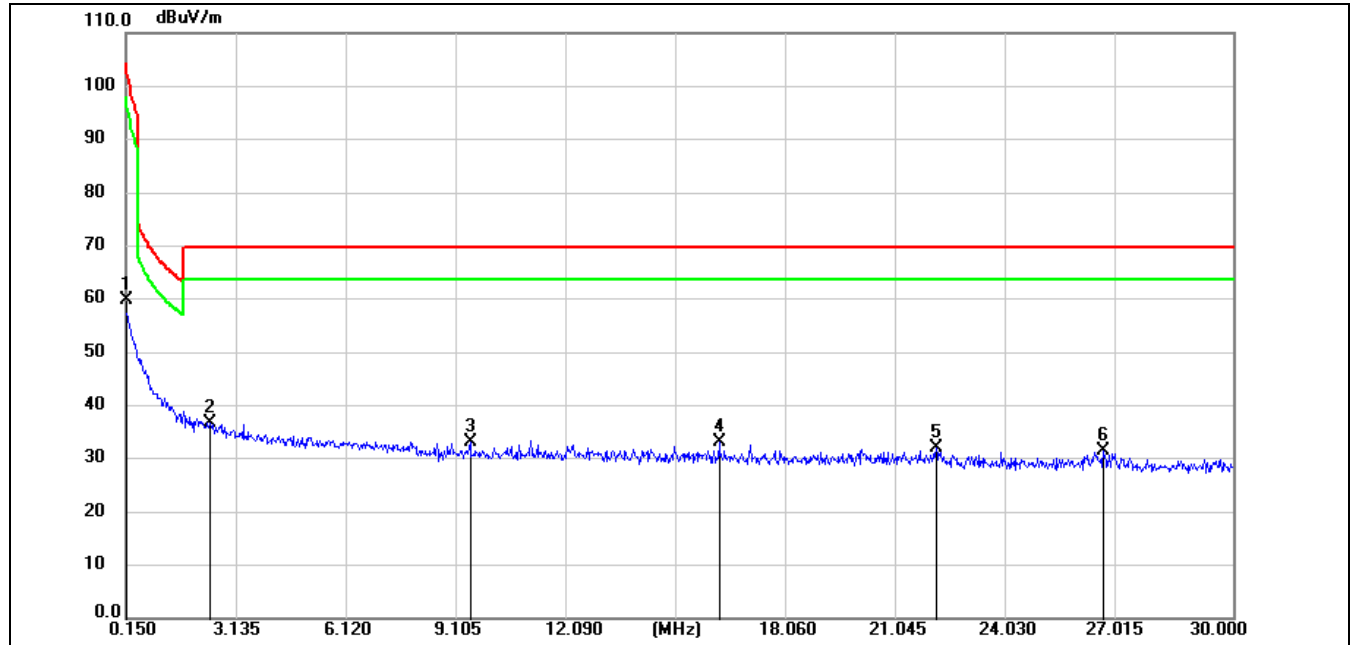


Limit: FCC Part 15C 3m Radiation
EUT: Power Bank
M/N.: MagS-1
Mode: Wireless Charging 15W
Test Engineer: Berny

Antenna: coplanar
Temperature: 24.3°C
Humidity: 53.2%RH
Power Rating: AC 120V/60Hz
Test Time: 2024-7-26

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measurement(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	0.0090	45.70	19.26	64.96	128.52	-63.56	peak	
2	0.0351	44.03	12.81	56.84	116.78	-59.94	peak	
3	0.0420	43.82	12.19	56.01	115.17	-59.16	peak	
4	0.0791	39.41	10.95	50.36	109.64	-59.28	peak	
5	0.1147	41.99	10.75	52.74	106.42	-53.68	peak	
6	0.1422	33.59	10.70	44.29	104.55	-60.26	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.



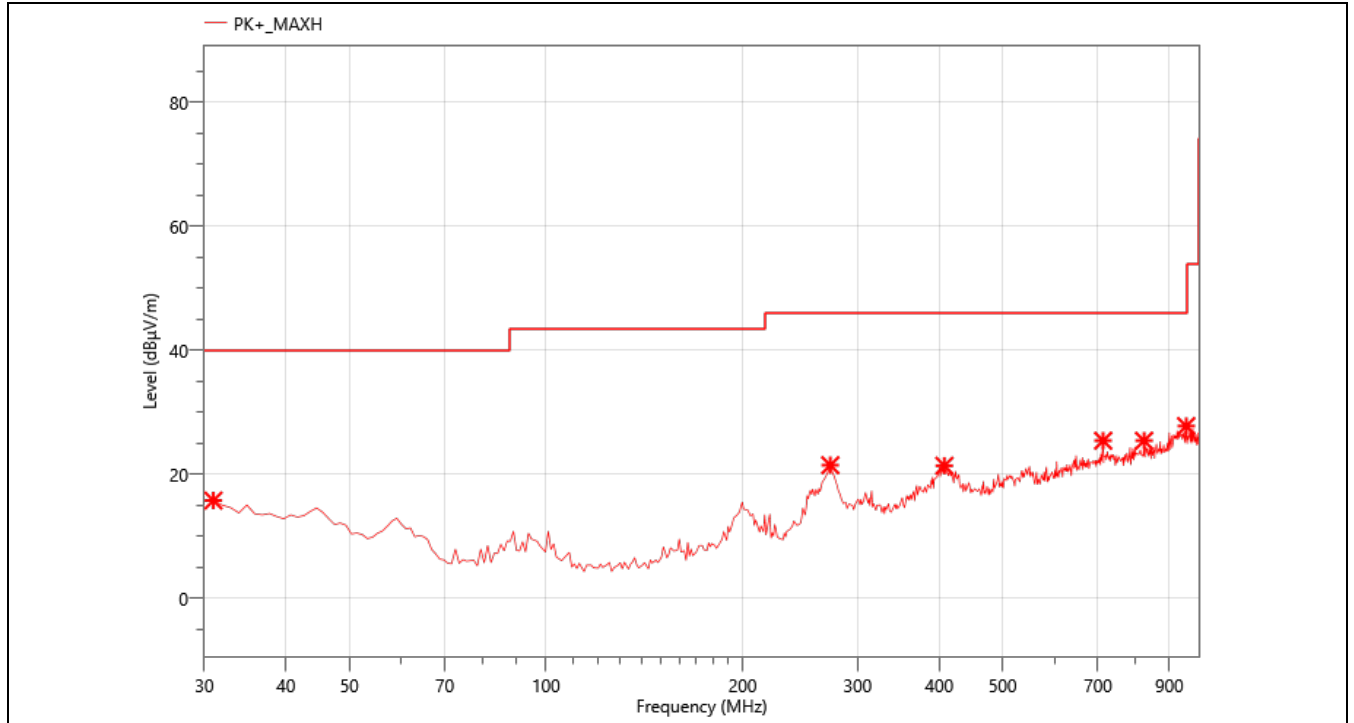
Limit: FCC Part 15C 3m Radiation
EUT: Power Bank
M/N.: MagS-1
Mode: Wireless Charging 15W
Test Engineer: Berny

Antenna: coplanar
Temperature: 24.3°C
Humidity: 53.2%RH
Power Rating: AC 120V/60Hz
Test Time: 2024-7-26

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measurement(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
1	0.1500	49.02	10.68	59.70	104.08	-44.38	peak	
2	2.4186	25.95	10.66	36.61	69.54	-32.93	peak	
3	9.4334	22.23	10.92	33.15	69.54	-36.39	peak	
4	16.1496	22.52	10.52	33.04	69.54	-36.50	peak	
5	22.0002	22.22	9.79	32.01	69.54	-37.53	peak	
6	26.5076	22.43	9.02	31.45	69.54	-38.09	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.

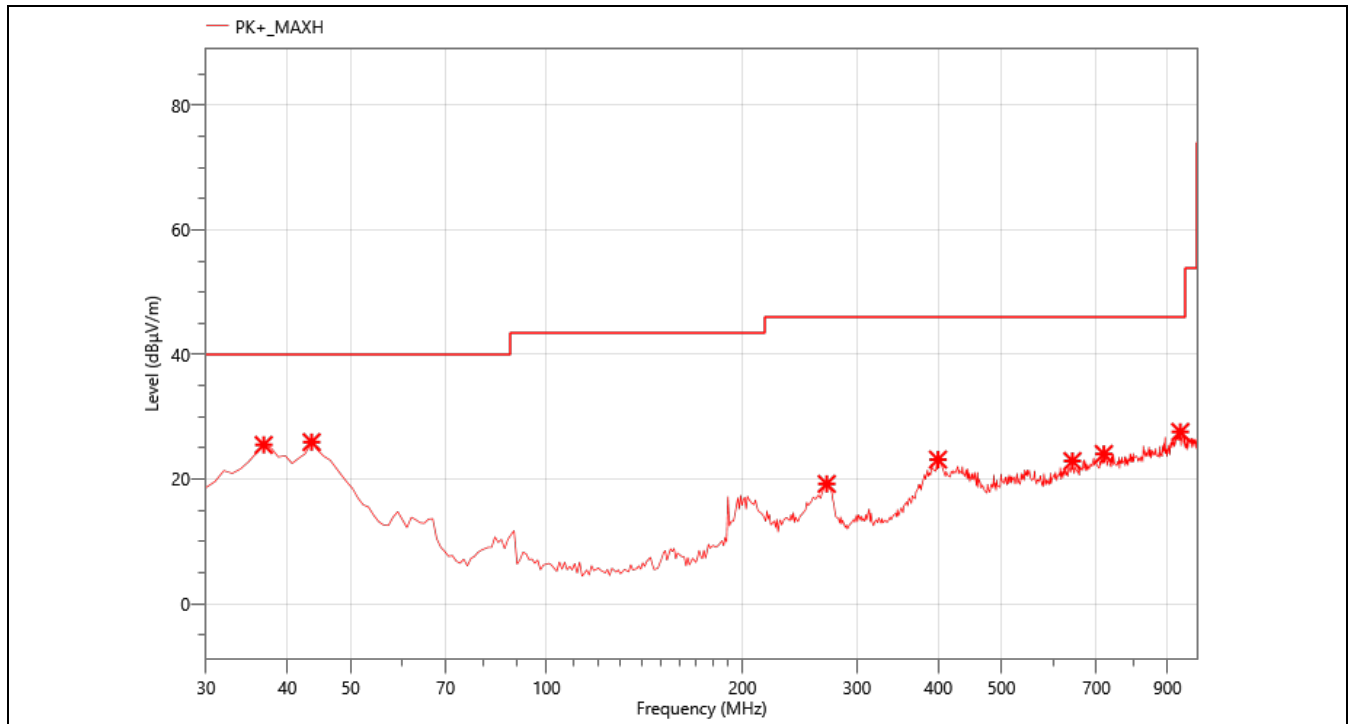
We pretested modes (Wireless Charging(15W), Wireless Charging (10W), Wireless Charging (7.5W), Wireless Charging(5W)) for EUT. The worst test data (Wireless Charging(15W)) see follow the table.



Limit: FCC Part 15C 3m Radiation
 EUT: Power Bank
 M/N.: MagS-1
 Mode: Wireless Charging 15W
 Test Engineer: Berny

Antenna: Horizontal
 Temperature: 24.3°C
 Humidity: 54%RH
 Power Rating: AC 120V/60Hz
 Test Time: 2024-7-26

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	30.970	30.55	-14.8	15.75	40.00	24.25	PK+	H
2	272.500	40.16	-18.71	21.45	46.00	24.55	PK+	H
3	407.330	35.12	-13.75	21.37	46.00	24.63	PK+	H
4	712.880	32.43	-7.03	25.40	46.00	20.60	PK+	H
5	823.460	31.45	-6.05	25.40	46.00	20.60	PK+	H
6	955.380	31.40	-3.64	27.76	46.00	18.24	PK+	H



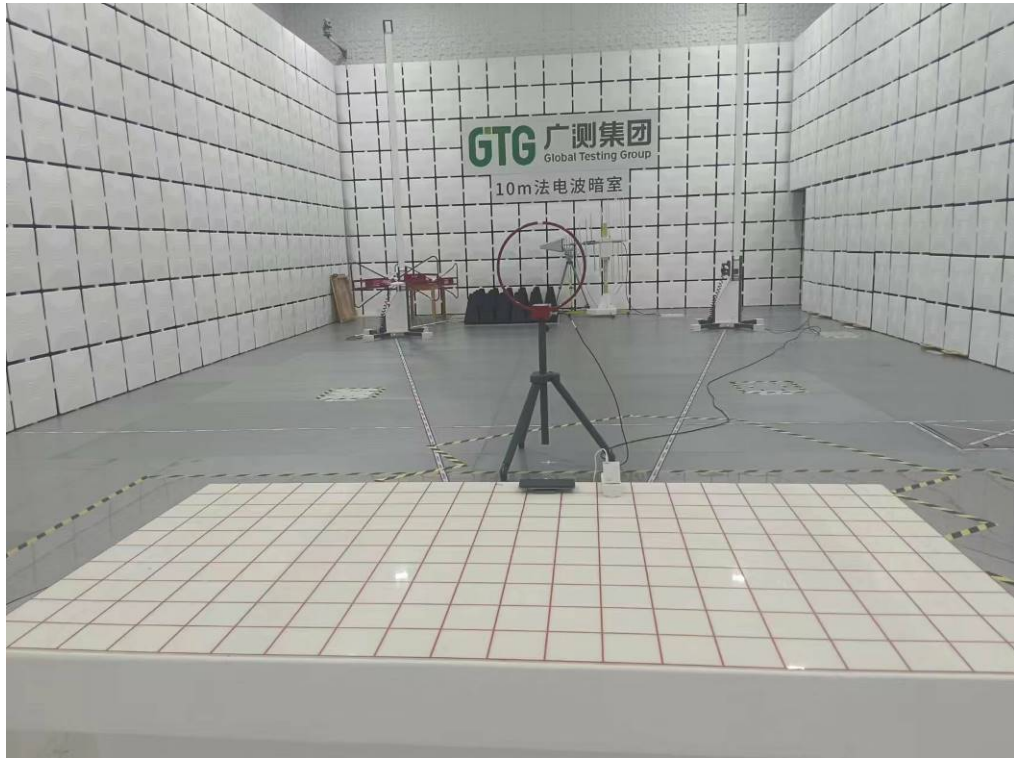
Limit: FCC Part 15C 3m Radiation
 EUT: Power Bank
 M/N.: MagS-1
 Mode: Wireless Charging 15W
 Test Engineer: Berny

Antenna: Vertical
 Temperature: 24.3°C
 Humidity: 54%RH
 Power Rating: AC 120V/60Hz
 Test Time: 2024-7-26

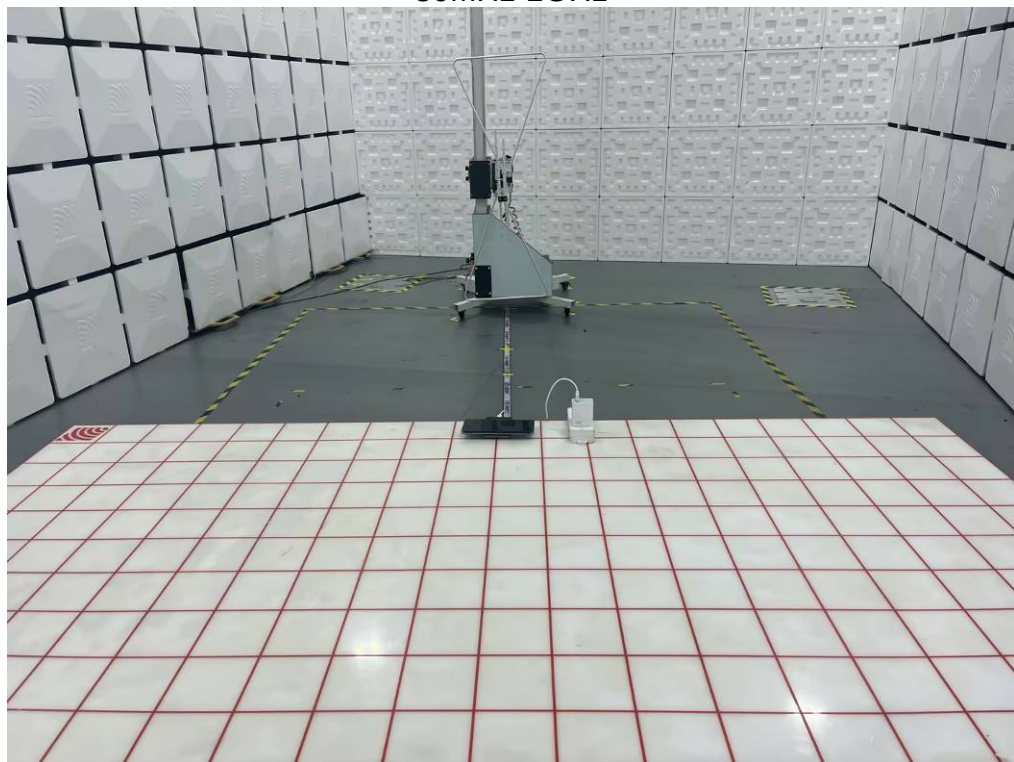
No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	36.790	43.68	-18.2	25.48	40.00	14.52	PK+	V
2	43.580	47.80	-21.88	25.92	40.00	14.08	PK+	V
3	269.590	37.78	-18.56	19.22	46.00	26.78	PK+	V
4	399.570	37.10	-13.97	23.13	46.00	22.87	PK+	V
5	643.040	31.52	-8.63	22.89	46.00	23.11	PK+	V
6	718.700	30.94	-6.91	24.03	46.00	21.97	PK+	V
7	941.800	30.82	-3.25	27.57	46.00	18.43	PK+	V

6.6 Radiated Measurement Photos

9kHz-30MHz



30MHz-1GHz



7 20db Bandwidth

7.1 20dB Bandwidth Limit

None: for reporting purposed only.

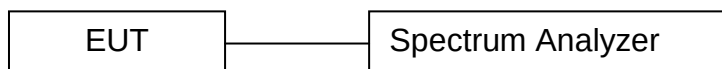
7.2 Test Instruments

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

phone charging

Frequency (KHz)	20dB Bandwidth (KHz)	Results
119.0	3.458	PASS

20 dB Bandwidth Test plot

phone charging



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.

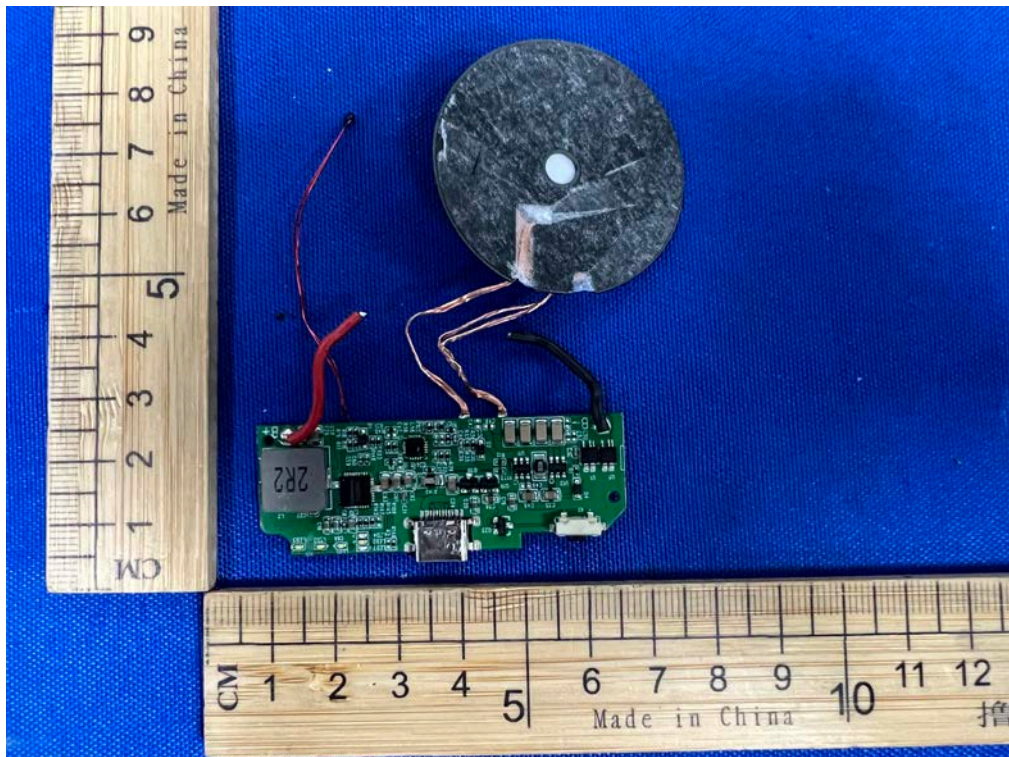
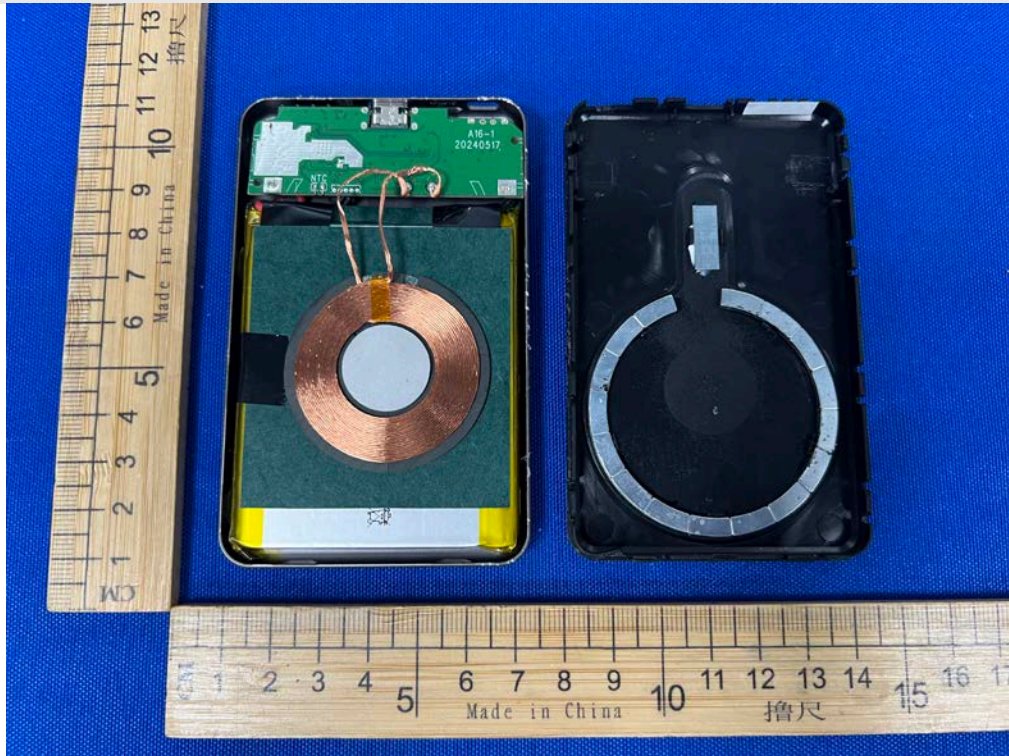
APPENDIX (Photos of EUT)

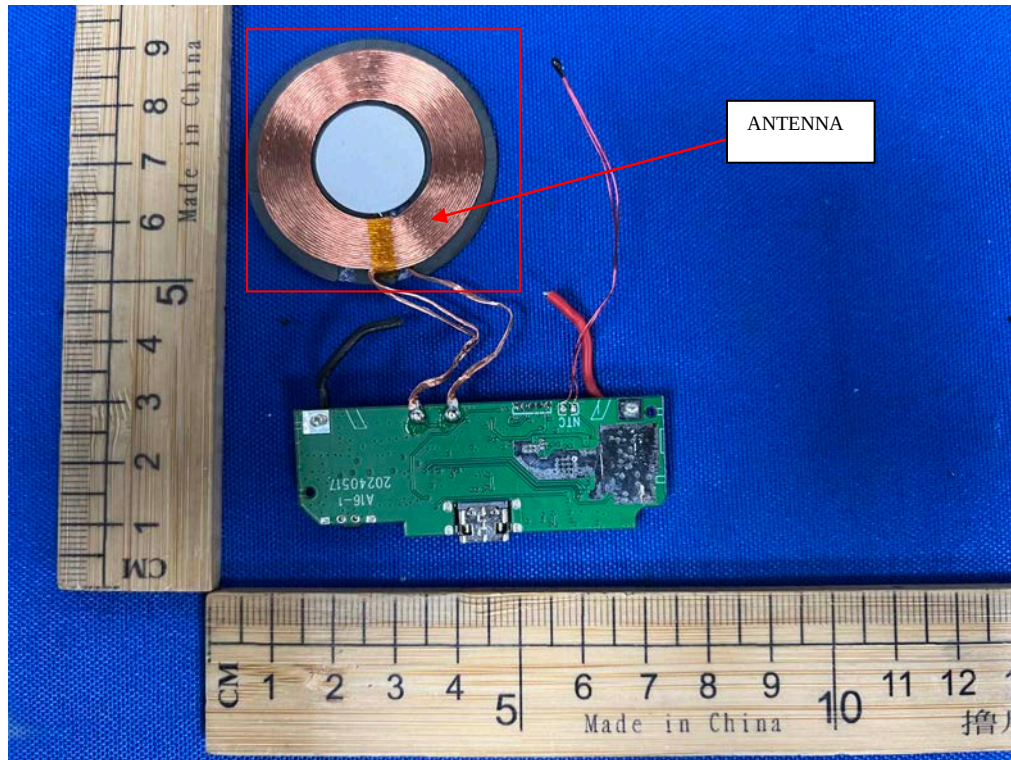
External





Internal





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