

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

OF

portable power source

Model No.: 10644PG

FCC ID: YJW-10644PG

Report No.: E04A23120642F00101

Issue Date: January 06, 2024

Prepared for

Superior communications .

5027 Irwindale Ave. Suite Irwindale Ave CA United States 91706

Prepared by

Guangdong Global Testing Technology Co., Ltd.

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523808**

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Guangdong Global Testing Technology Co., Ltd.**

VERIFICATION OF COMPLIANCE

Applicant:	Superior communications . 5027 Irwindale Ave. Suite Irwindale Ave CA United States 91706
Manufacturer:	Jiangxi Kingtron Tech Co., Ltd. Kingtron Industrial Park, Quannan District, Ganzhou City 341800, Jiangxi Province, China.
Product Description:	portable power source
Trade Mark:	PURE.GEAR
Model Number:	10644PG
Sample Received Date:	December 21, 2023
Sample ID:	A23120642 001


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 : December 21, 2023 ~ December 29, 2023

Prepared by : 



Reviewer & Authorized Signer : 

Shawn Wen/ Laboratory Manager

Modified Information

Version	Summary	Revision Date	Report No.
Ver.1.0	Original Report	/	E04A23120642F00101

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1 General Information

1.1 Product Description

Characteristics	Description
Product Name	portable power source
Model number	10644PG
Operation Mode	Wireless Charging
Input Rating	TypeC: 5V/2A
Power Supply	DC 5V
Operating Frequency	110-205KHz for phone charging
Wireless Charging Power	5W(Max) for phone charging
Modulation Technique	FSK for phone charging
Antenna Type	Coil Antenna
Software version	V1.0
Hardware version	V1.0

1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: YJW-10644PG 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

Site Description
Name of Firm : Guangdong Global Testing Technology Co., Ltd.
Site Location : 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

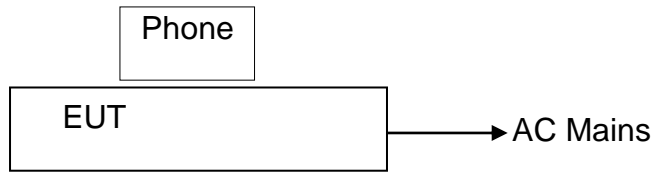


Table 2-1 Equipment Used in Tested System

Item	Equipment	Trade Mark	Model No.	FCC ID	Note
1.	portable power source	PURE.GE AR	10644PG	YJW-10644PG	<i>EUT</i>
2.	Adapter	/	580245A087	N/A	<i>Support Equipment</i>
3.	phone	Apple	A2176	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	$\pm 3\%$

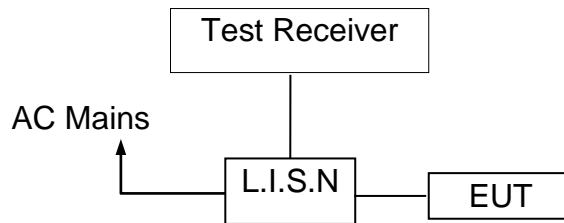
Remark: The coverage Factor ($k=2$), and measurement Uncertainty for a level of Confidence of 95%

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	2023/03/30	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

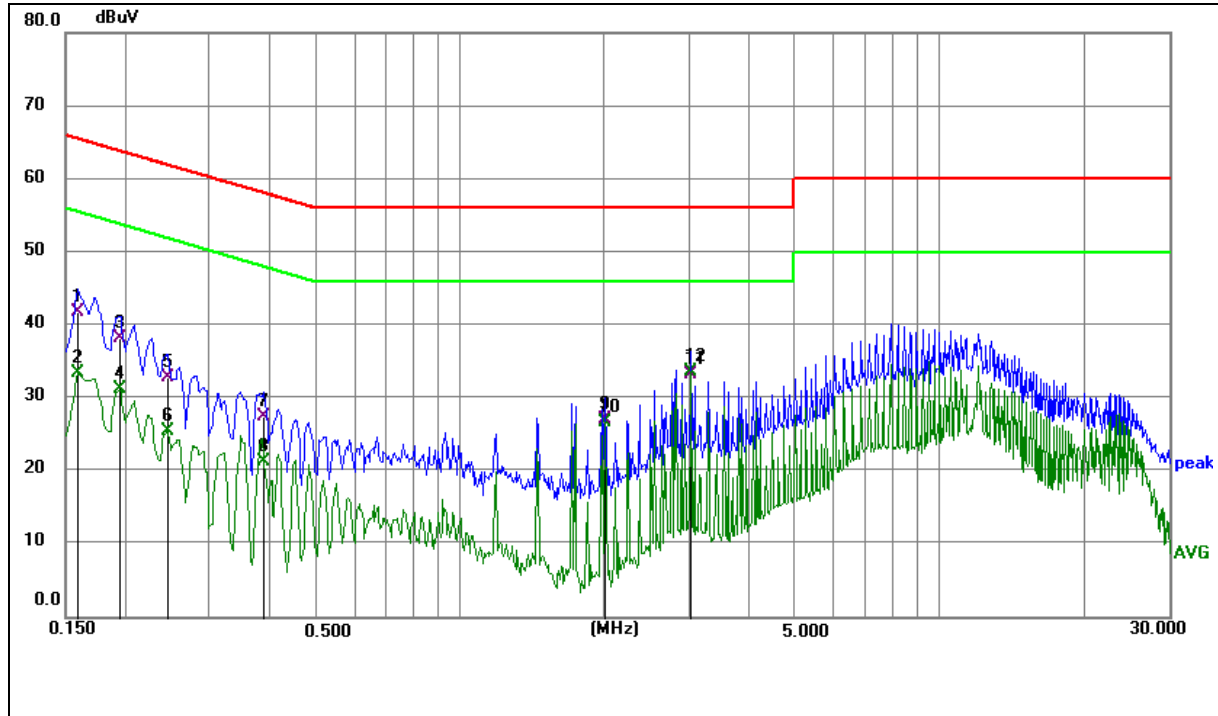
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.5 Measurement Result

Operation Mode:	TX	Test Date :	2023/12/22
Frequency Range:	0.15MHz~30MHz	Temperature :	25.3℃
Test Result:	PASS	Humidity :	52 %RH
Test By:	Fink		

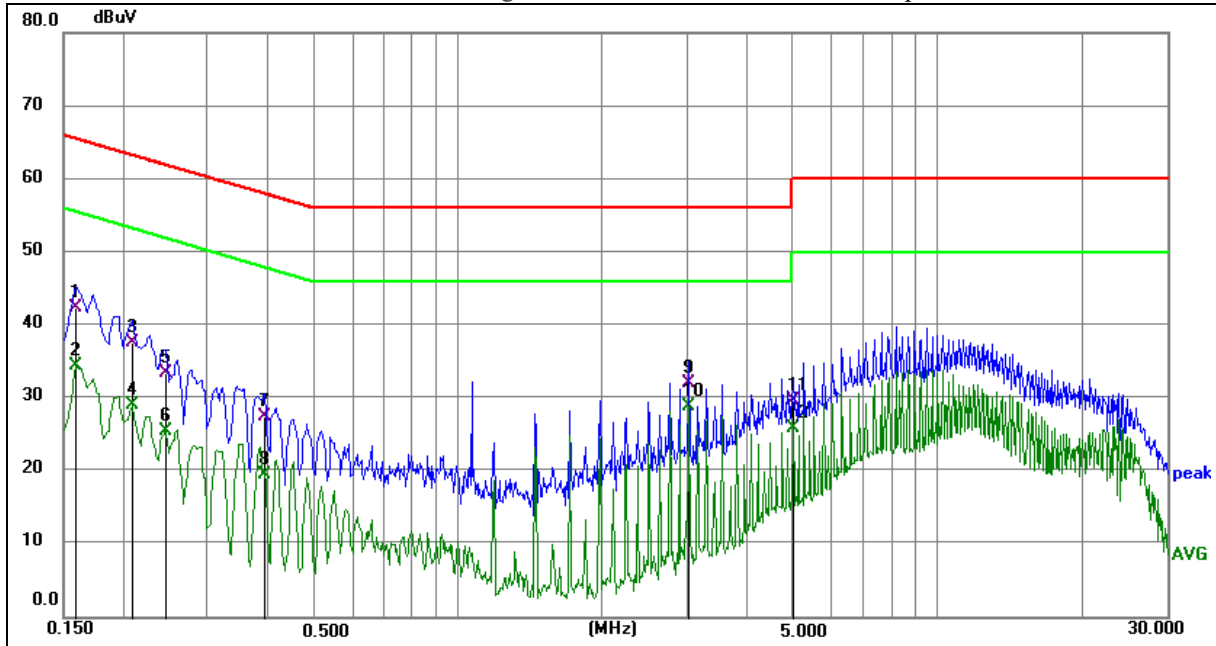
We pretested modes (Wireless Charging(5W)) for EUT. The worst test data see follow the table.

Test mode: Wireless Charging 5W



Limit:	FCC Part 15 C Conduction	Phase:	L1
EUT:	portable power source	Test Time:	2023/12/22
M/N.:	10644PG	Power Rating:	AC120V/60Hz
Mode:	Wireless Charging 5W	Test Engineer:	Fink

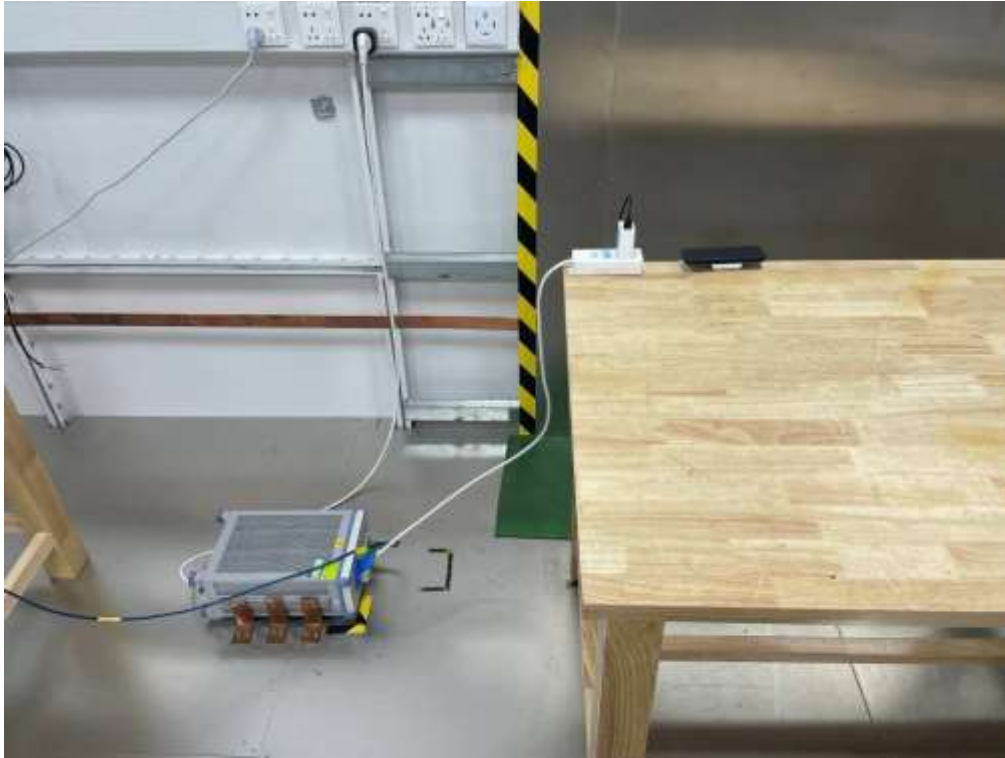
No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measurement(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1590	31.89	9.90	41.79	65.52	-23.73	QP	
2	0.1590	23.61	9.90	33.51	55.52	-22.01	AVG	
3	0.1949	28.26	9.94	38.20	63.83	-25.63	QP	
4	0.1949	21.24	9.94	31.18	53.83	-22.65	AVG	
5	0.2445	22.97	9.82	32.79	61.94	-29.15	QP	
6	0.2445	15.70	9.82	25.52	51.94	-26.42	AVG	
7	0.3885	17.74	9.85	27.59	58.10	-30.51	QP	
8	0.3885	11.52	9.85	21.37	48.10	-26.73	AVG	
9	2.0085	16.92	10.18	27.10	56.00	-28.90	QP	
10	2.0085	16.50	10.18	26.68	46.00	-19.32	AVG	
11	3.0255	23.26	10.06	33.32	56.00	-22.68	QP	
12	3.0255	23.51	10.06	33.57	46.00	-12.43	AVG	



Limit:	FCC Part 15 C Conduction	Phase:	N
EUT:	portable power source	Test Time:	2023/12/22
M/N.:	10644PG	Power Rating:	AC120V/60Hz
Mode:	Wireless Charging 5W	Test Engineer:	Fink

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measurement(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1590	32.33	9.97	42.30	65.52	-23.22	QP	
2	0.1590	24.45	9.97	34.42	55.52	-21.10	AVG	
3	0.2084	27.66	9.93	37.59	63.27	-25.68	QP	
4	0.2084	19.09	9.93	29.02	53.27	-24.25	AVG	
5	0.2444	23.55	9.91	33.46	61.95	-28.49	QP	
6	0.2444	15.58	9.91	25.49	51.95	-26.46	AVG	
7	0.3930	17.62	9.94	27.56	58.00	-30.44	QP	
8	0.3930	9.60	9.94	19.54	48.00	-28.46	AVG	
9	3.0255	21.80	10.20	32.00	56.00	-24.00	QP	
10	3.0255	18.67	10.20	28.87	46.00	-17.13	AVG	
11	5.0010	19.46	10.28	29.74	60.00	-30.26	QP	
12	5.0010	15.72	10.28	26.00	50.00	-24.00	AVG	

5.6 Conducted Measurement Photo



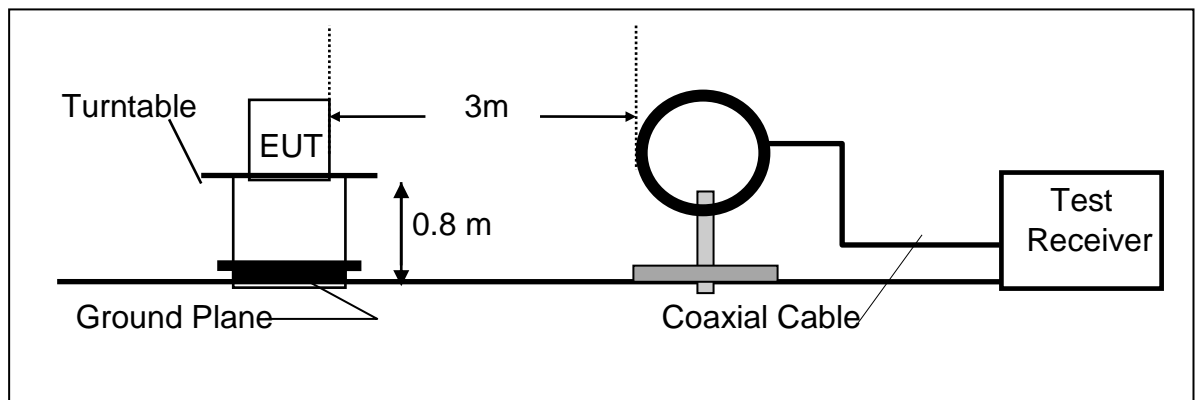
6 Radiated Emission Test

6.1 Measurement Procedure

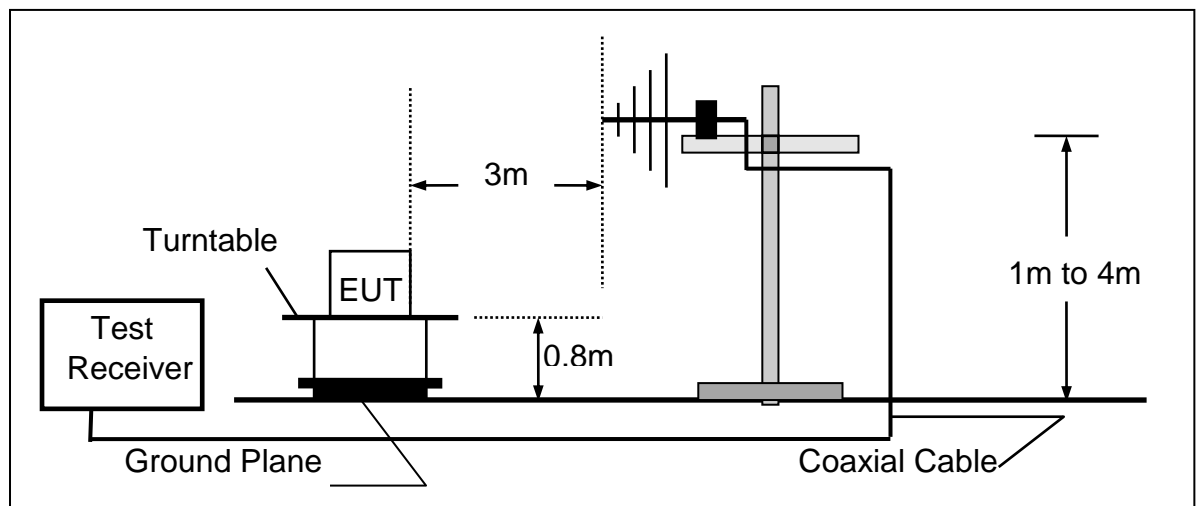
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above 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:ANCI-3A1	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	$20\log 500$

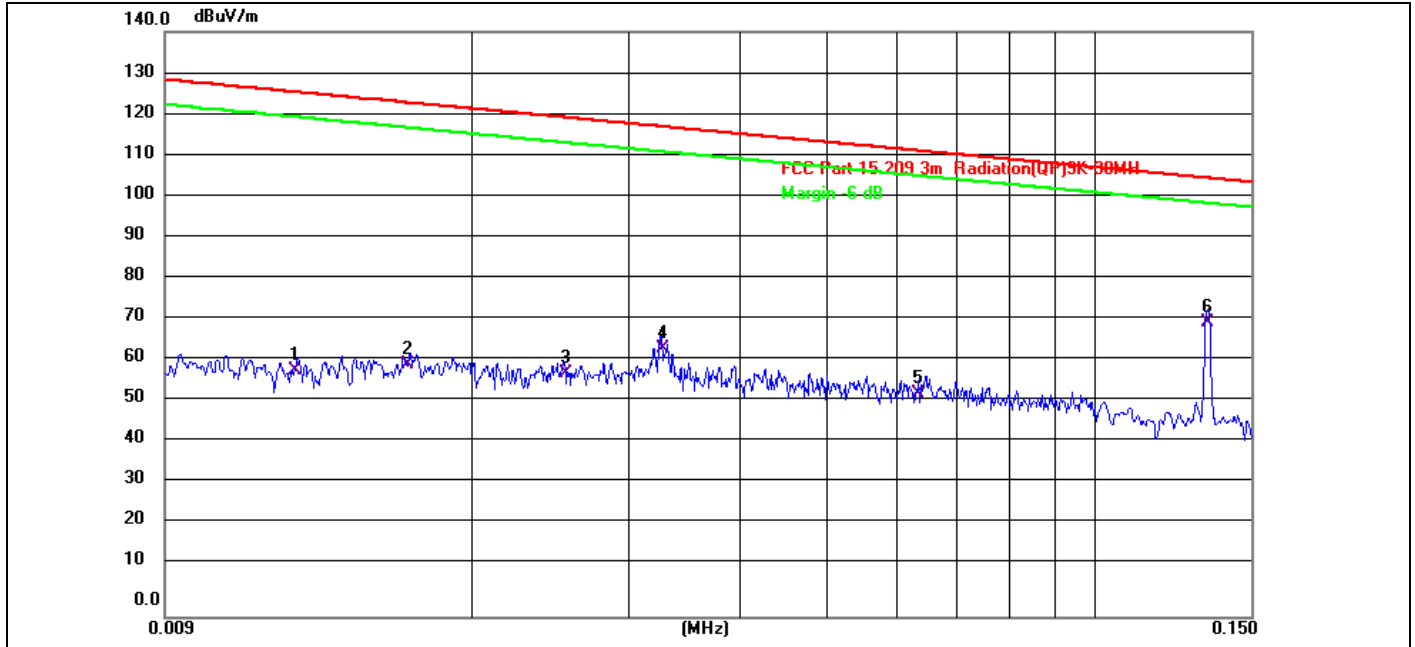
15.205 Restricted bands of operation

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

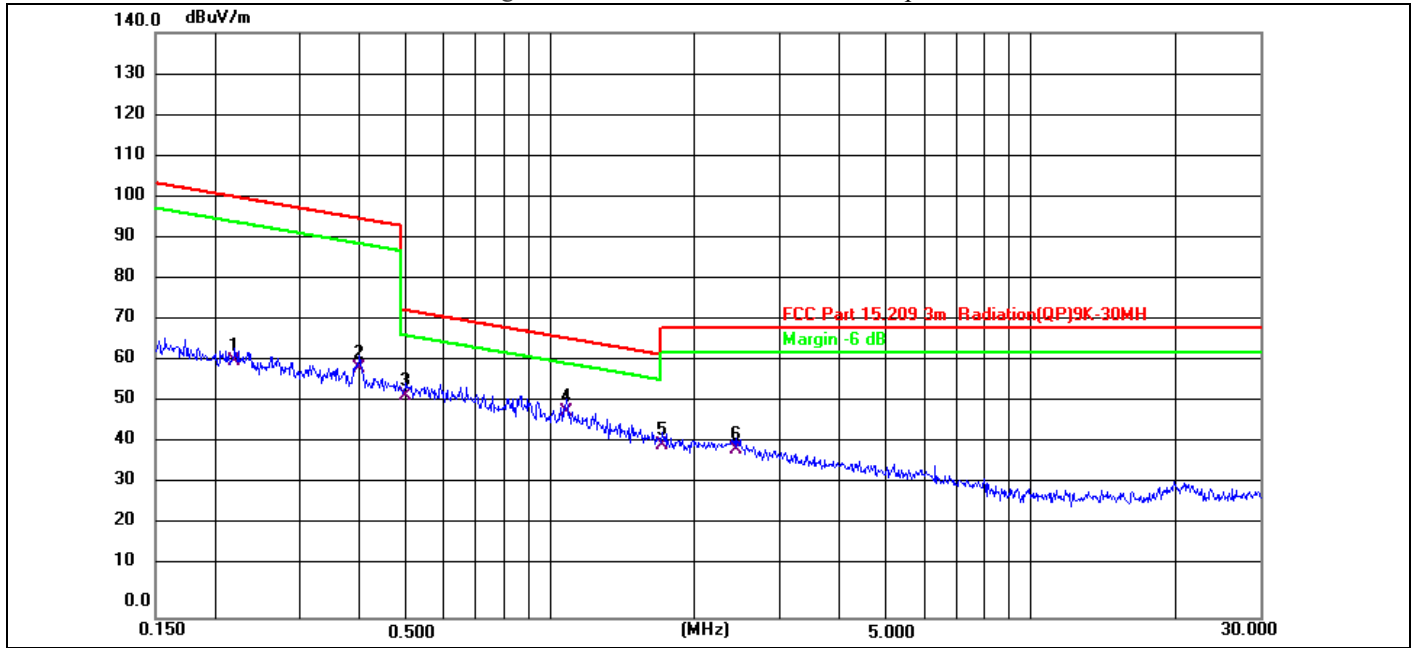
6.5 Measurement Result

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



Limit:	FCC Part 15C 3m Radiation	Antenna:	Coplaner
EUT:	portable power source	Temperature:	24.3°C
M/N.:	10644PG	Humidity:	53.2%RH
Mode:	Wireless Charging 5W	Power Rating:	AC 120V/60Hz
Test Engineer:	Vier	Test Time:	2023/12/27

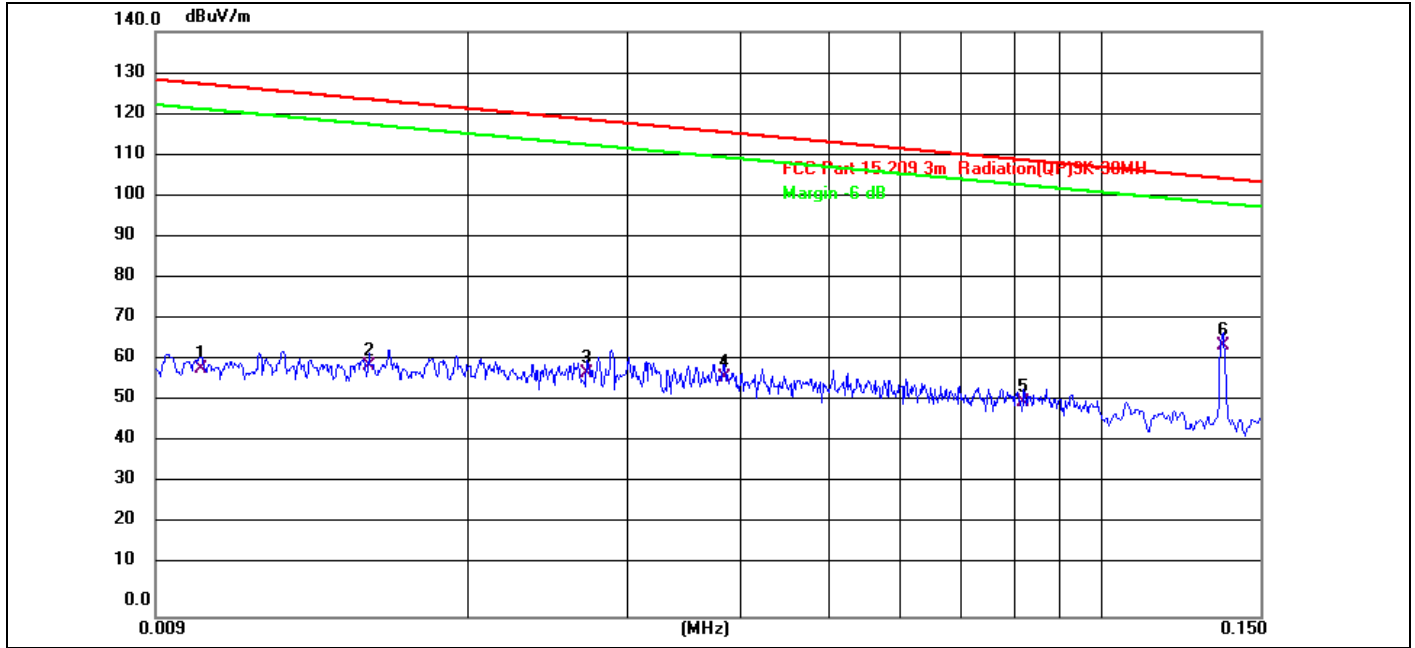
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.0126	38.60	20.40	59.00	125.58	-66.58	peak
2	0.0170	40.07	20.33	60.40	122.98	-62.58	peak
3	0.0253	38.09	20.21	58.30	119.53	-61.23	peak
4	0.0326	44.14	20.11	64.25	117.33	-53.08	peak
5	0.0634	33.76	19.74	53.50	111.55	-58.05	peak
6	0.1340	50.96	19.64	70.60	105.06	-34.46	peak



Limit:	FCC Part 15C 3m Radiation	Antenna:	Coplaner
EUT:	portable power source	Temperature:	24.3°C
M/N.:	10644PG	Humidity:	53.2%RH
Mode:	Wireless Charging 5W	Power Rating:	AC 120V/60Hz
Test Engineer:	Vier	Test Time:	2023/12/27

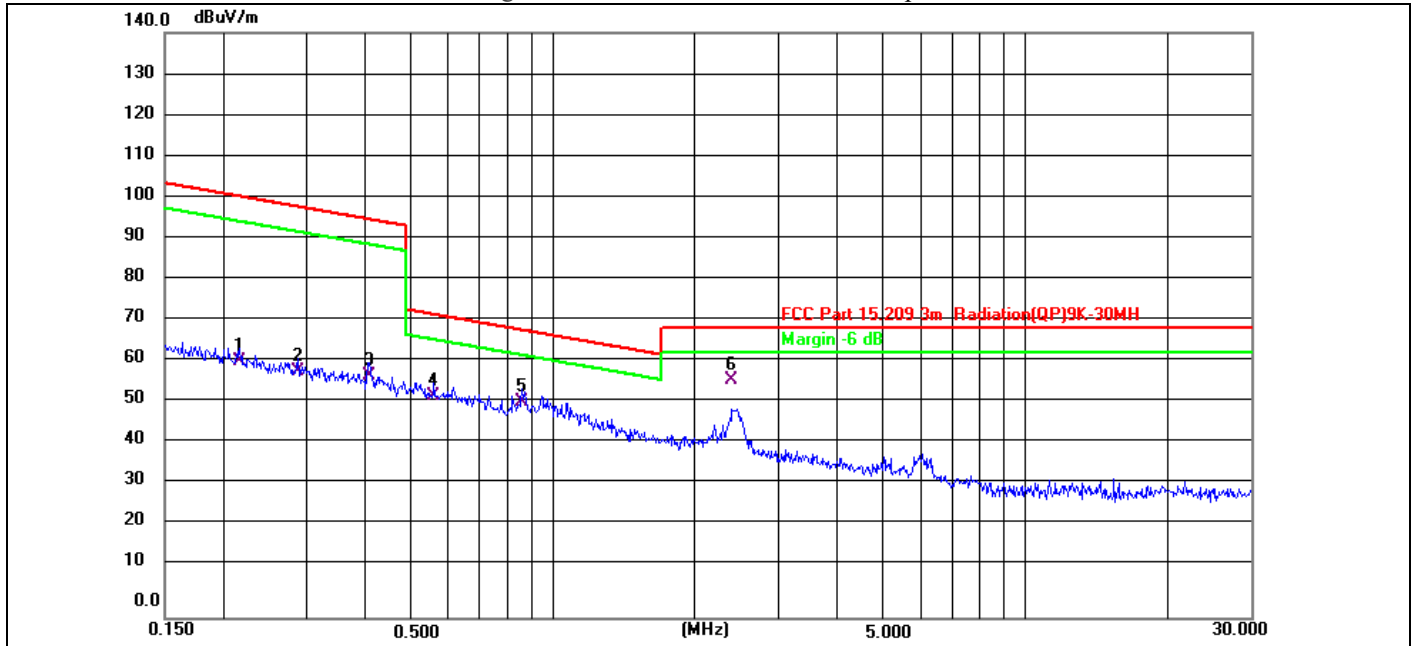
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.2196	41.97	19.63	61.60	100.77	-39.17	peak
2	0.3997	40.19	19.61	59.80	95.57	-35.77	peak
3	0.4993	33.66	19.59	53.25	73.64	-20.39	peak
4	1.0766	29.91	19.44	49.35	66.98	-17.63	peak
5	1.7071	21.94	19.51	41.45	69.50	-28.05	peak
6	2.4217	20.73	19.57	40.30	69.50	-29.20	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	Antenna:	Coaxial
EUT:	portable power source	Temperature:	24.3°C
M/N.:	10644PG	Humidity:	53.2%RH
Mode:	Wireless Charging 5W	Power Rating:	AC 120V/60Hz
Test Engineer:	Vier	Test Time:	2023/12/27

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.0101	38.87	20.43	59.30	127.50	-68.20	peak
2	0.0155	39.74	20.36	60.10	123.78	-63.68	peak
3	0.0270	38.23	20.19	58.42	118.96	-60.54	peak
4	0.0383	37.44	20.06	57.50	115.93	-58.43	peak
5	0.0822	31.80	19.70	51.50	109.30	-57.80	peak
6	0.1363	45.36	19.64	65.00	104.91	-39.91	peak

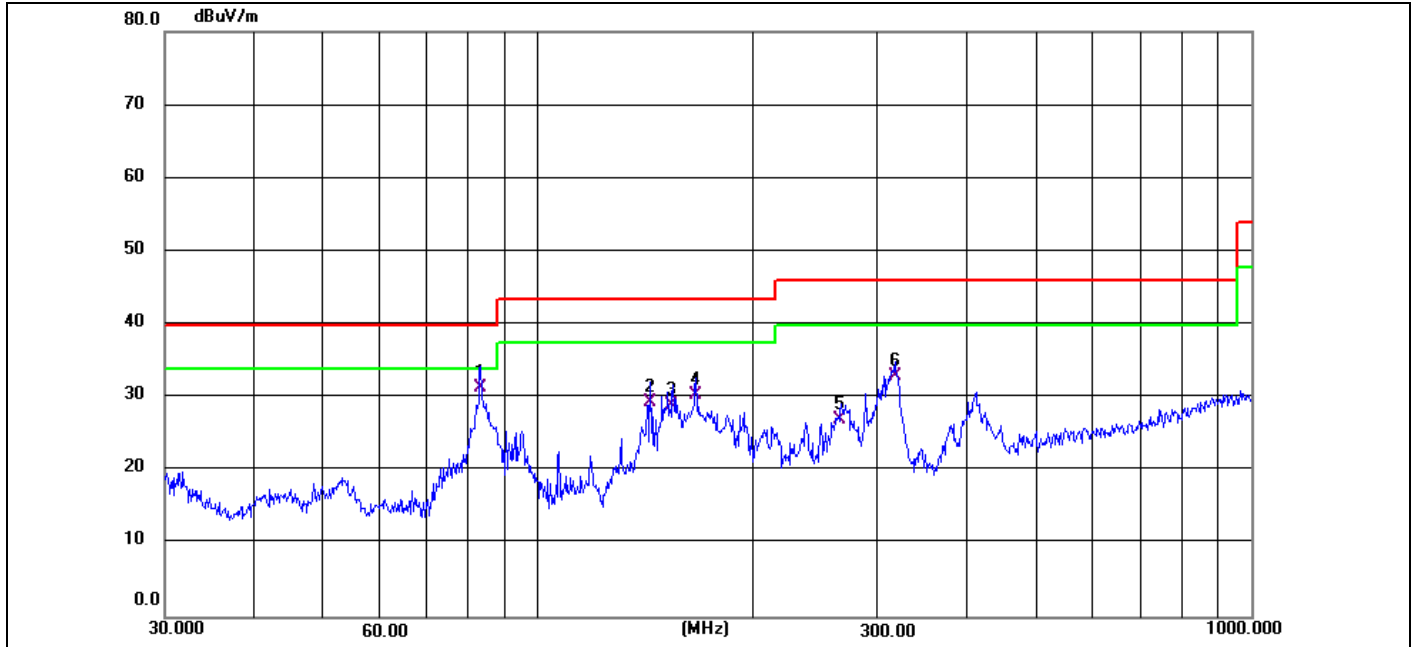


Limit:	FCC Part 15C 3m Radiation	Antenna:	Coaxial
EUT:	portable power source	Temperature:	24.3°C
M/N.:	10644PG	Humidity:	53.2%RH
Mode:	Wireless Charging 5W	Power Rating:	AC 120V/60Hz
Test Engineer:	Vier	Test Time:	2023/12/27

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.2162	41.87	19.63	61.50	100.90	-39.40	peak
2	0.2878	39.38	19.62	59.00	98.42	-39.42	peak
3	0.4061	38.39	19.61	58.00	95.43	-37.43	peak
4	0.5581	33.65	19.58	53.23	72.67	-19.44	peak
5	0.8572	32.31	19.49	51.80	68.96	-17.16	peak
6	2.3835	37.53	19.57	57.10	69.50	-12.40	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(5W)) for EUT. The worst test data (Wireless Charging(5W)) see follow the table.



Limit:	FCC Part 15C 3m Radiation	Antenna:	Horizontal
EUT:	portable power source	Temperature:	24.1°C
M/N.:	10644PG	Humidity:	53%RH
Mode:	Wireless Charging 5W	Power Rating:	AC 120V/60Hz
Test Engineer:	Big	Test Time:	2023/12/25

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	83.2298	47.59	-16.19	31.40	40.00	-8.60	QP
2	143.8295	40.95	-11.59	29.36	43.50	-14.14	QP
3	154.8204	40.52	-11.57	28.95	43.50	-14.55	QP
4	166.6514	42.62	-12.26	30.36	43.50	-13.14	QP
5	266.6089	40.70	-13.60	27.10	46.00	-18.90	QP
6	316.5890	45.04	-12.15	32.89	46.00	-13.11	QP



Limit:	FCC Part 15C 3m Radiation	Antenna:	Vertical
EUT:	portable power source	Temperature:	24.1°C
M/N.:	10644PG	Humidity:	53%RH
Mode:	Wireless Charging 5W	Power Rating:	AC 120V/60Hz
Test Engineer:	Big	Test Time:	2023/12/25

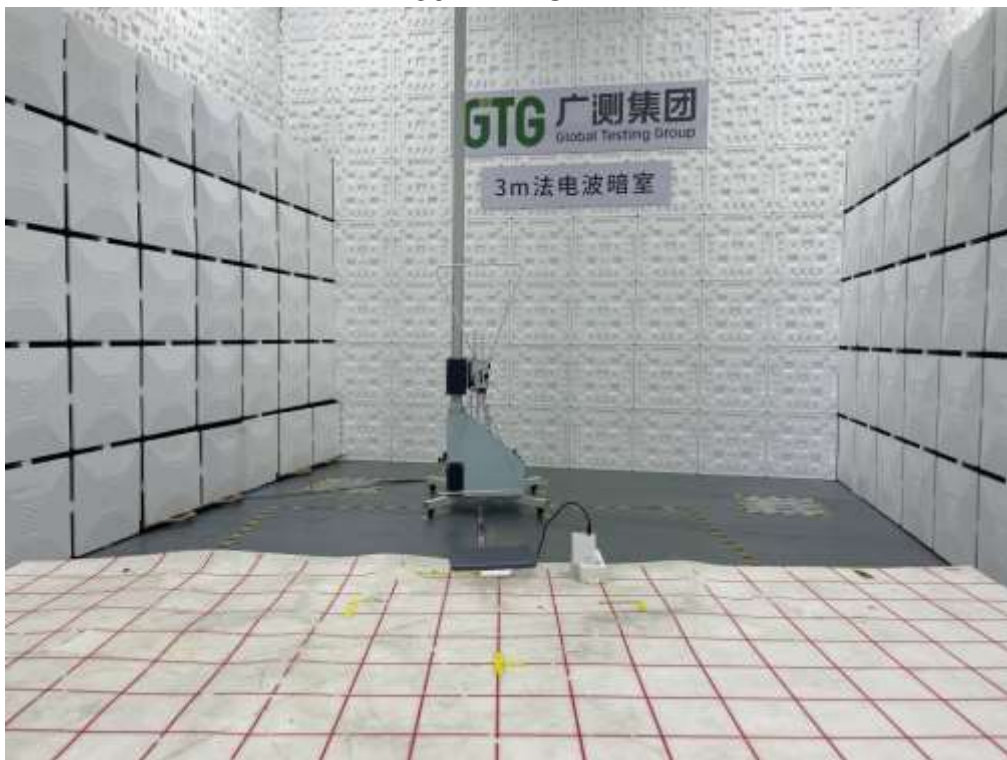
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	52.9453	44.25	-12.57	31.68	40.00	-8.32	QP
2	83.2298	53.79	-16.19	37.60	40.00	-2.40	QP
3	143.8295	47.85	-11.59	36.26	43.50	-7.24	QP
4	154.8204	47.53	-11.57	35.96	43.50	-7.54	QP
5	166.6514	48.38	-12.26	36.12	43.50	-7.38	QP
6	319.9370	47.25	-12.05	35.20	46.00	-10.80	QP

6.6 Radiated Measurement Photos

9kHz-30MHz



30MHz-1GHz



7 20db Bandwidth

7.1 20dB Bandwidth Limit

None: for reporting purposed only.

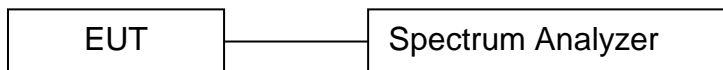
7.2 Test Instruments

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
174.0	2.696	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



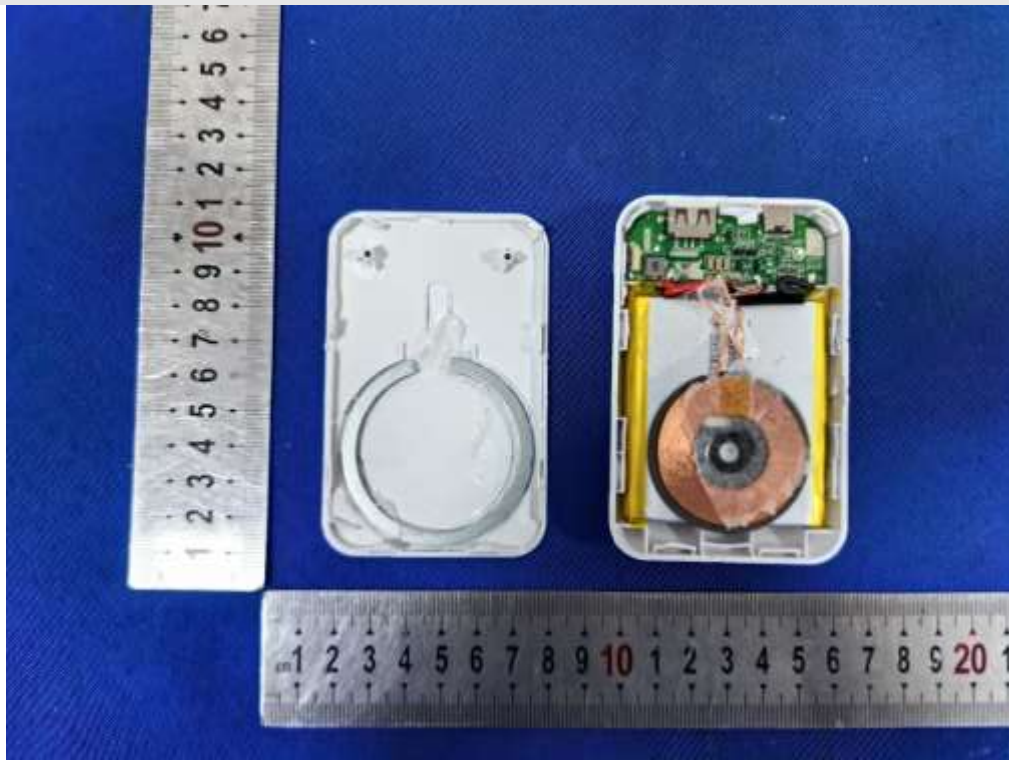
External-5



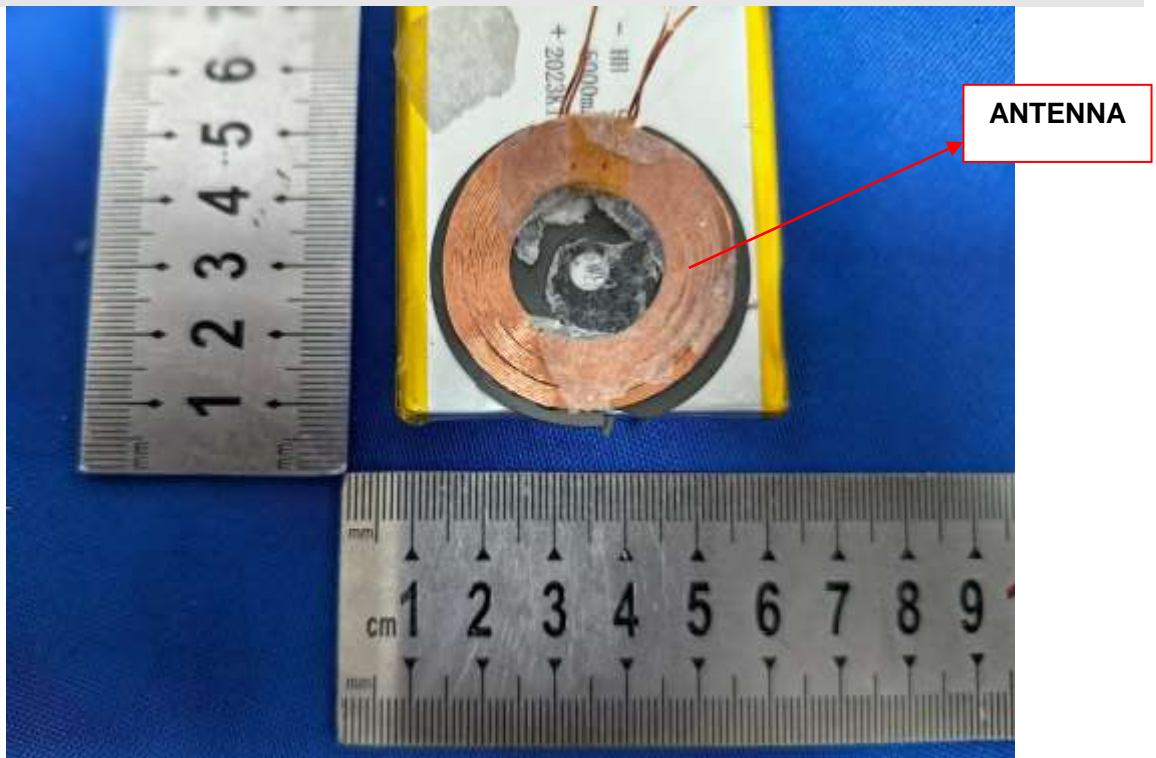
External-6



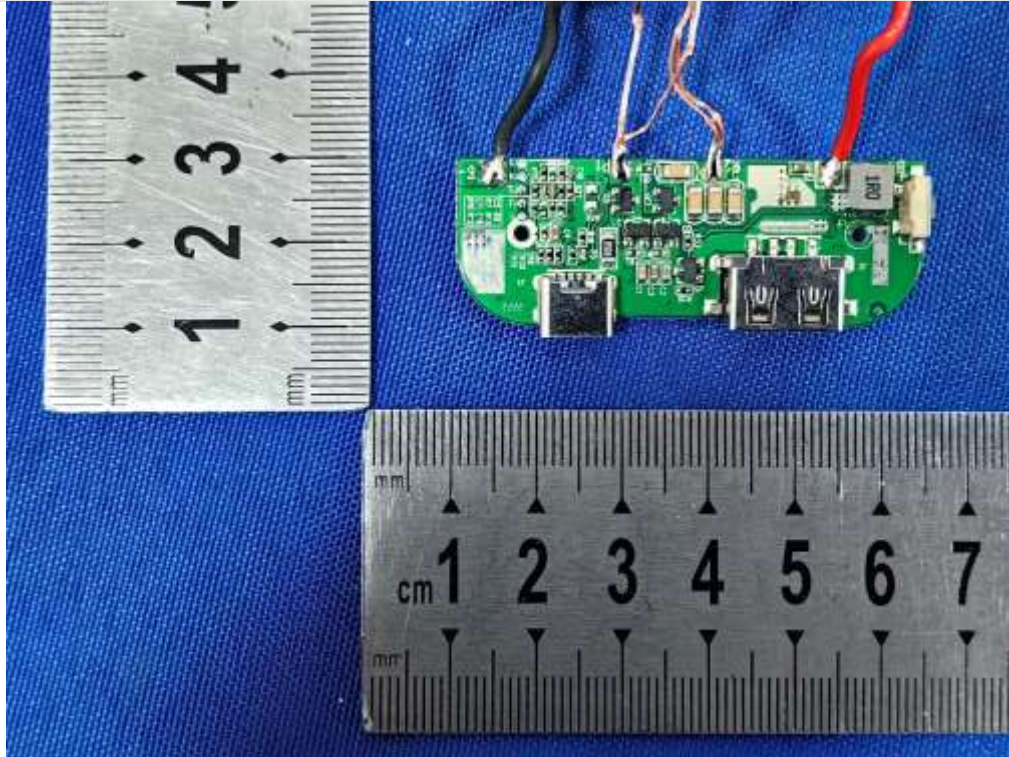
Internal-1



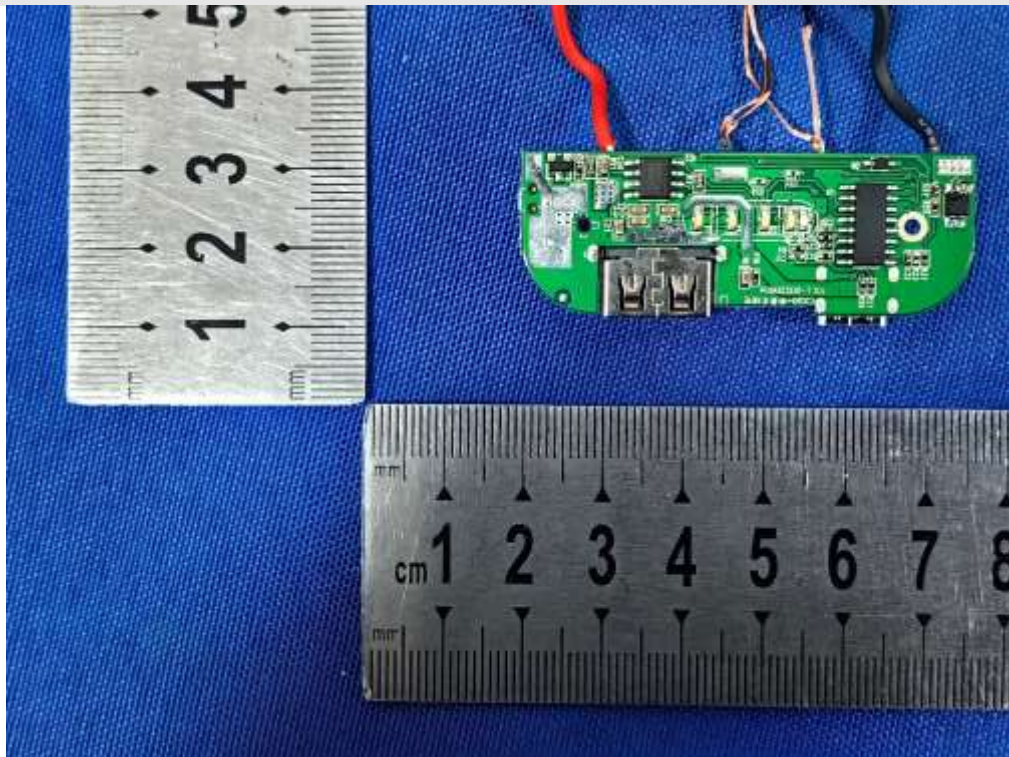
Internal-2



Internal-3



Internal-4



Internal-5



--- END OF REPORT---