

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

*OF*

**Wireless charging table lamp**

**Model No.: LT2204304GW-WH, LT2204304GW-BK**

**Trademark: N/A**

**FCC ID: 2AP9S-LT2204304GW**

**Report No.: E01A23020259F00101**

**Issue Date: February 09, 2022**

*Prepared for*

**Gateway Plastic Hardware & Lighting Co., Ltd**

**Xinjiang Village Intersection, Changfu Road, Changning Town, Boluo  
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*Prepared by*

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Dong Guan Anci Electronic Technology Co., Ltd.**

**VERIFICATION OF COMPLIANCE**

Applicant:	Gateway Plastic Hardware & Lighting Co., Ltd Xinjiang Village Intersection, Changfu Road, Changning Town, Boluo County, Huizhou City, Guangdong Province. China
Manufacturer:	Gateway Plastic Hardware & Lighting Co., Ltd Xinjiang Village Intersection, Changfu Road, Changning Town, Boluo County, Huizhou City, Guangdong Province. China
Product Description:	Wireless charging table lamp
Trade Mark:	N/A
Model Number:	LT2204304GW-WH, LT2204304GW-BK (The two models are identical except for the color and model, The two models are the same except for the color and model. We choose the model LT2204304GW-WH for all tests.)
Test Sample Number:	A23020259 002

**We hereby certify that:**

The above equipment was tested by Dong Guan Anci Electronic 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 : February 08, 2022 to February 09, 2022

*Duke Liu*

Prepared by : \_\_\_\_\_  
Duke Liu/Editor

*Tiger Xu*

Reviewer &  
Authorized Signer : \_\_\_\_\_  
Tiger Xu/ Supervisor

## Modified Information

Version	Summary	Revision Date	Report No.
Ver.1.0	Original Report	/	E01A23020259F00101

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## 1 General Information

### 1.1 Product Description

Characteristics	Description
Product Name	Wireless charging table lamp
Model number	LT2204304GW-BK
Operation Mode	Wireless Charging
Input Rating	DC 5V, 3A
Power Supply	DC 5V from POWER SUPPLY
Adapter Information	Model: RKP-UL0503000DP-3 Input: AC 100-240V, 50/60Hz Output: 5Vdc, 3.0A.
Operating Frequency	110-205KHz
Wireless Charging Power	5W
Modulation Technique	FSK
Antenna Type	Induction coil
Sample receipt date	February 08, 2022

## 1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: 2AP9S-LT2204304GW 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  
EMC Lab. : Accredited by FCC, May 30, 2019  
Designation Number: CN1230  
Test Firm Registration Number: 991798

Name of Firm : Dong Guan Anci Electronic Technology Co., Ltd.  
Site Location : 1-2 Floor, Building A, No.11, Headquarters 2 Road, Songshan, Lake Hi-tech Industrial Development Zone, Dongguan City, evelopment Zone, Dongguan City, Guangdong Pr., China.

## 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

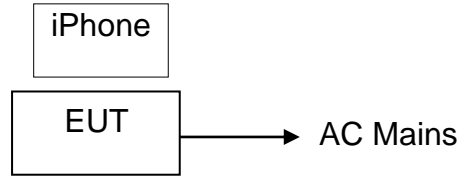
The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

#### 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.	Wireless charging table lamp	N/A	LT2204304GW-BK	2AP9S-LT2204304GW	<b><i>EUT</i></b>
2.	iphone	Apple	A2176	N/A	<b><i>Support Equipment</i></b>

**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	$\pm 2.0\text{dB}$
Radiated Emission Test	$\pm 2.0\text{dB}$
Temperature	$\pm 0.5^{\circ}\text{C}$
Humidity	$\pm 3\%$

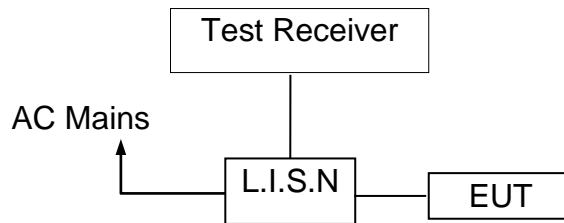
Remark: The coverage Factor ( $k=2$ ), and measurement Uncertainty for a level of Confidence of 95%

## 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

Item	EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER
1.	LISN	ROHDE&SCHW ARZ	ENV216	101413
2.	RF Cable	N/A	ZT06S-NJ-NJ-2 .5M	19044022
3.	EMI Test Receiver	ROHDE&SCHW ARZ	ESCI	101358
4.	1# Shielded Room	chengyu	8m*4m*3.3m	N/A
5.	Test Software	Farad	EZ-EMC (Ver.ANCI-3A1)	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.

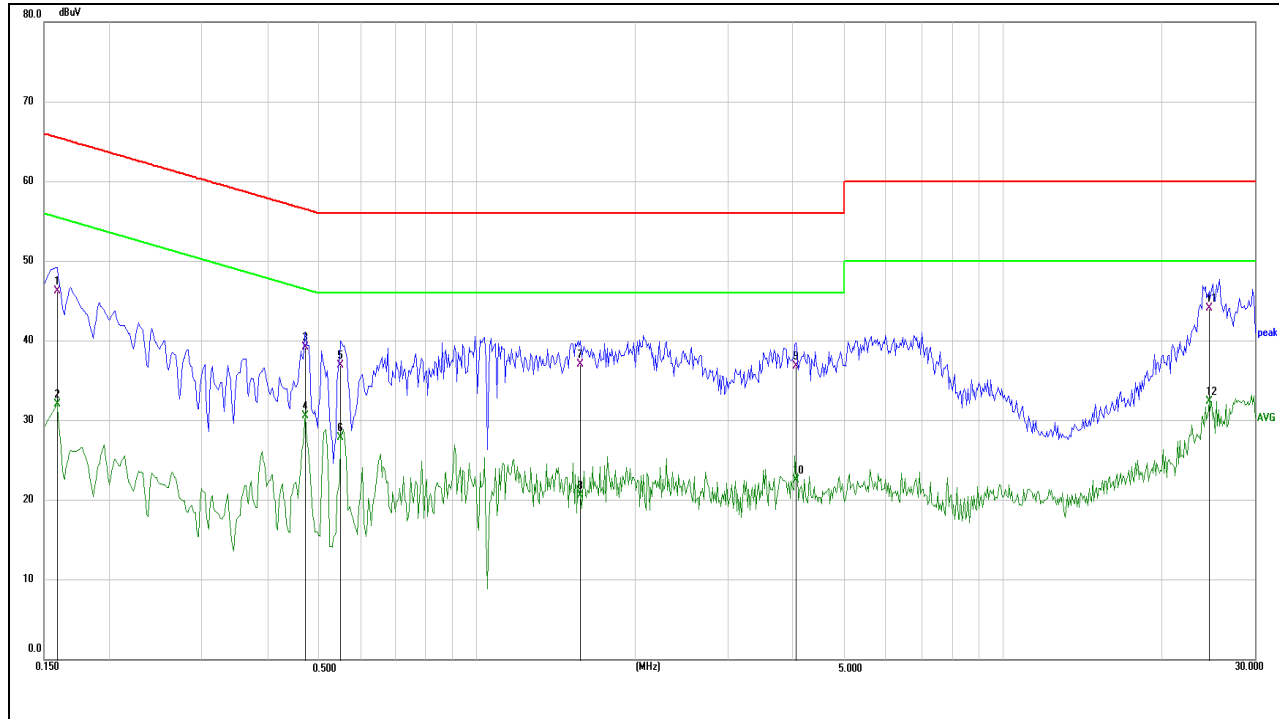
## 5.5 Measurement Result

Operation Mode:	TX	Test Date :	2023/02/08
Frequency Range:	0.15MHz~30MHz	Temperature :	28°C
Test Result:	PASS	Humidity :	65 %
Test By:	Sunshine		

Pass

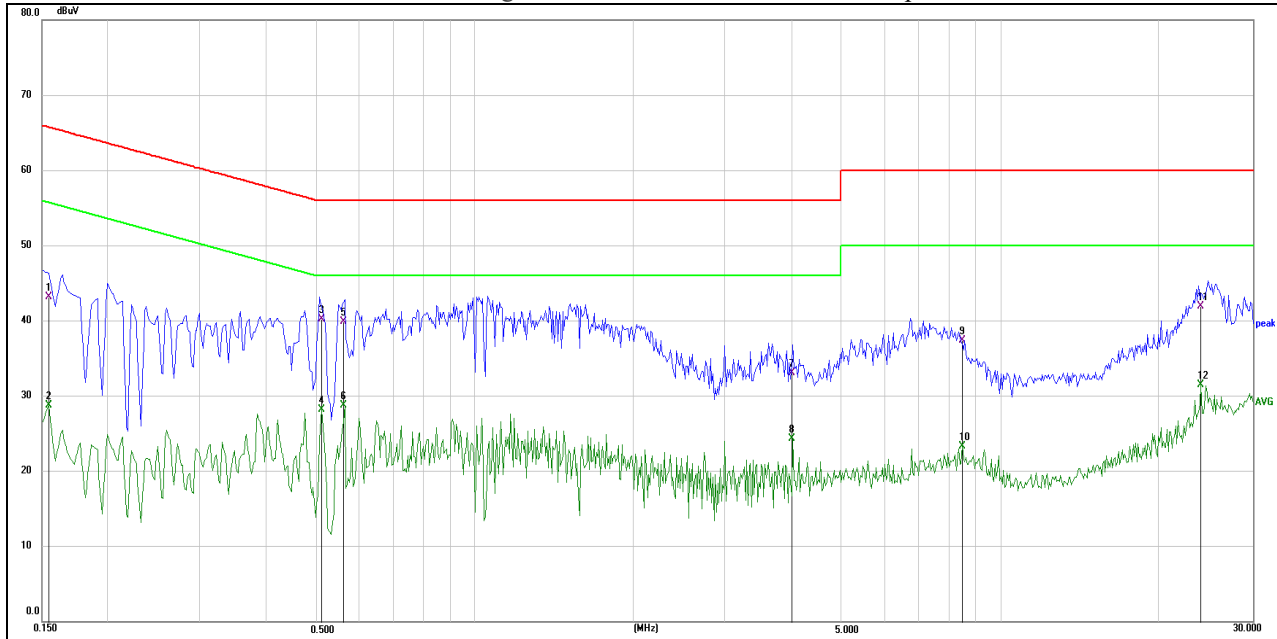
We pretested modes (Wireless Charging (5W), for EUT. The worst test data see follow the table.

**Test mode: Wireless Charging 5W**



<b>Site:</b>	<b>843</b>	<b>Phase:</b>	<b>L1</b>	<b>Temperature(C):</b>	<b>26(C)</b>
<b>Limit:</b>	<b>FCC Part 15 C Conduction(QP)</b>			<b>Humidity(%):</b>	<b>60%</b>
<b>EUT:</b>	<b>Wireless charging table lamp</b>	<b>Test Time:</b>	<b>2023/02/08 15:29:51</b>		
<b>M/N.:</b>	<b>LT2204304GW-BK</b>	<b>Power Rating:</b>	<b>AC 120V/60Hz</b>		
<b>Mode:</b>	<b>Wireless Charging 5W</b>	<b>Test Engineer:</b>	<b>Sunshine</b>		
<b>Note:</b>					

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measurement(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1590	36.70	9.51	46.21	65.52	-19.31	QP	
2	0.1590	22.55	9.51	32.06	55.52	-23.46	AVG	
3	0.4695	29.38	9.80	39.18	56.52	-17.34	QP	
4	0.4695	20.75	9.80	30.55	46.52	-15.97	AVG	
5	0.5505	27.29	9.69	36.98	56.00	-19.02	QP	
6	0.5505	18.19	9.69	27.88	46.00	-18.12	AVG	
7	1.5720	27.04	10.01	37.05	56.00	-18.95	QP	
8	1.5720	10.57	10.01	20.58	46.00	-25.42	AVG	
9	4.0380	26.97	9.81	36.78	56.00	-19.22	QP	
10	4.0380	12.75	9.81	22.56	46.00	-23.44	AVG	
11	24.6480	33.47	10.67	44.14	60.00	-15.86	QP	
12	24.6480	21.73	10.67	32.40	50.00	-17.60	AVG	



<b>Site:</b>	<b>843</b>	<b>Phase:</b>	<b>N</b>	<b>Temperature(C):</b>	<b>26(C)</b>
<b>Limit:</b>	<b>FCC Part 15 C Conduction(QP)</b>	<b>Test Time:</b>	<b>2023/02/08 15:34:01</b>		
<b>EUT:</b>	<b>Wireless charging table lamp</b>	<b>Power Rating:</b>	<b>AC 120V/60Hz</b>		
<b>M/N.:</b>	<b>LT2204304GW-BK</b>	<b>Test Engineer:</b>	<b>Sunshine</b>		
<b>Mode:</b>	<b>Wireless Charging 5W</b>				
<b>Note:</b>					

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measurement(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1544	33.63	9.52	43.15	65.76	-22.61	QP	
2	0.1544	19.26	9.52	28.78	55.76	-26.98	AVG	
3	0.5100	30.47	9.75	40.22	56.00	-15.78	QP	
4	0.5100	18.42	9.75	28.17	46.00	-17.83	AVG	
5	0.5639	30.16	9.67	39.83	56.00	-16.17	QP	
6	0.5639	19.13	9.67	28.80	46.00	-17.20	AVG	
7	4.0109	23.25	9.80	33.05	56.00	-22.95	QP	
8	4.0109	14.50	9.80	24.30	46.00	-21.70	AVG	
9	8.4344	27.24	10.13	37.37	60.00	-22.63	QP	
10	8.4344	13.15	10.13	23.28	50.00	-26.72	AVG	
11	24.0000	31.26	10.62	41.88	60.00	-18.12	QP	
12	24.0000	20.91	10.62	31.53	50.00	-18.47	AVG	

### 5.6 Conducted Measurement Photo



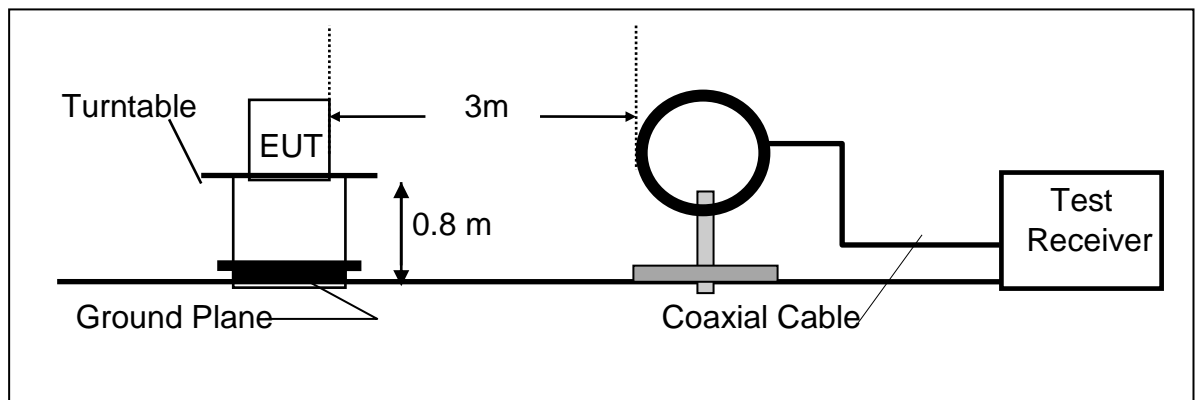
## 6 Radiated Emission Test

### 6.1 Measurement Procedure

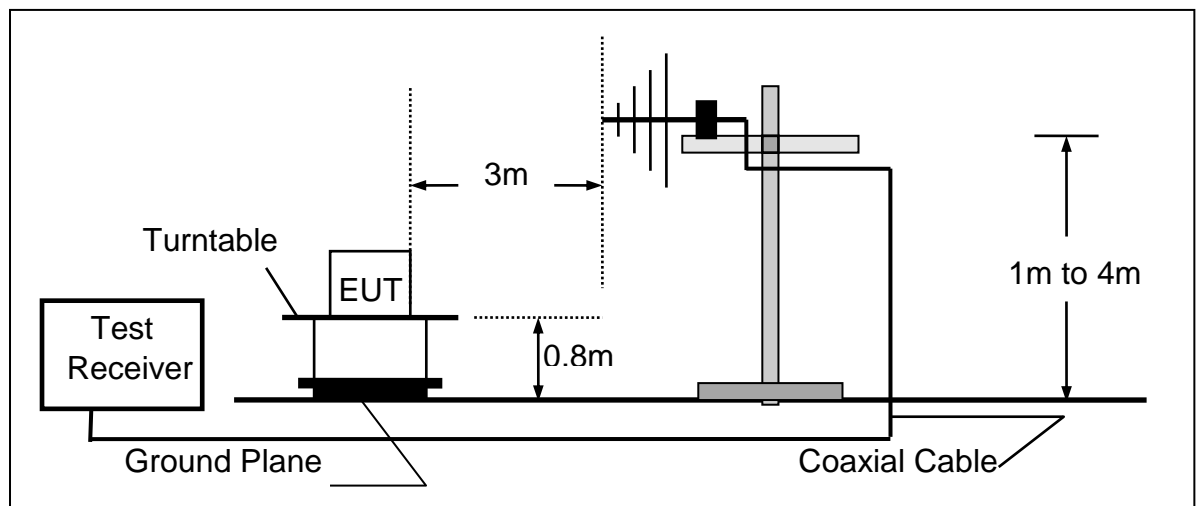
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above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

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1.	EMI Test Receiver	Rohde & Schwarz	ESPI	100502	2022/11/12
2.	Pre-Amplifier	HP	8447D	2727A06172	2023-05-12
3.	Bilog Antenna	ETS	6502	00243668	2025-08-29
4.	Loop Antenna	Schwarzbeck	FMZB 1516	1516-141	2022/11/12
5.	RF Cable	Gigalink Microwave	ZT40-2.92J-2.92 J-2m	N/A	2022/11/12
6.	RF Cable	Gigalink Microwave	ZT40-2.92J-2.92 J-0.3m	N/A	2022/11/12
7.	RF Cable	N/A	N/A	6#	2023-05-12
8.	3m Semi-anechoic Chamber	chengyu	9m*6m*6m	N/A	2023-05-12
9.	Test Software	Farad	EZ-EMC Ver:ANCI-3A1	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



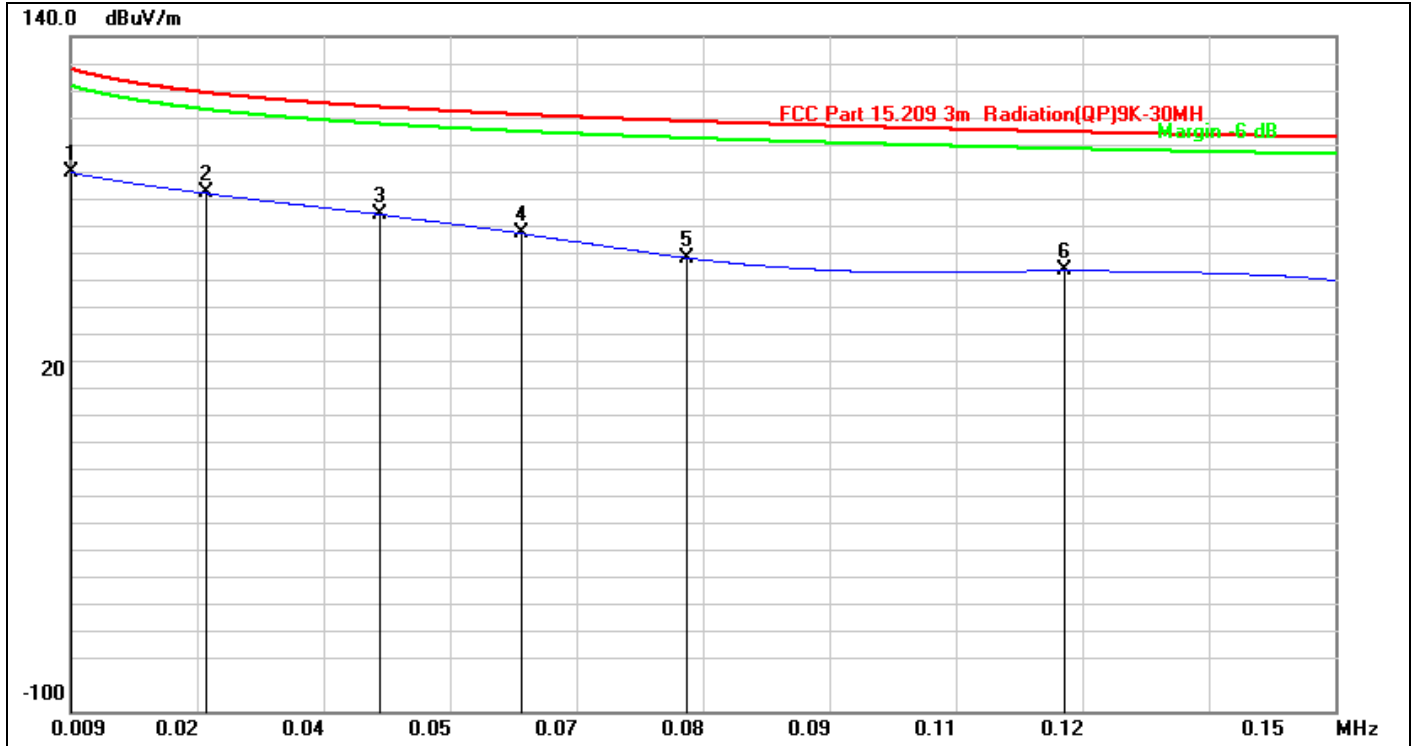
## 15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 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	( <sup>2</sup> )

- 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  $\xi$  15.205, and the emissions located in restricted bands also comply with 15.209 limit.

### 6.5 Measurement Result

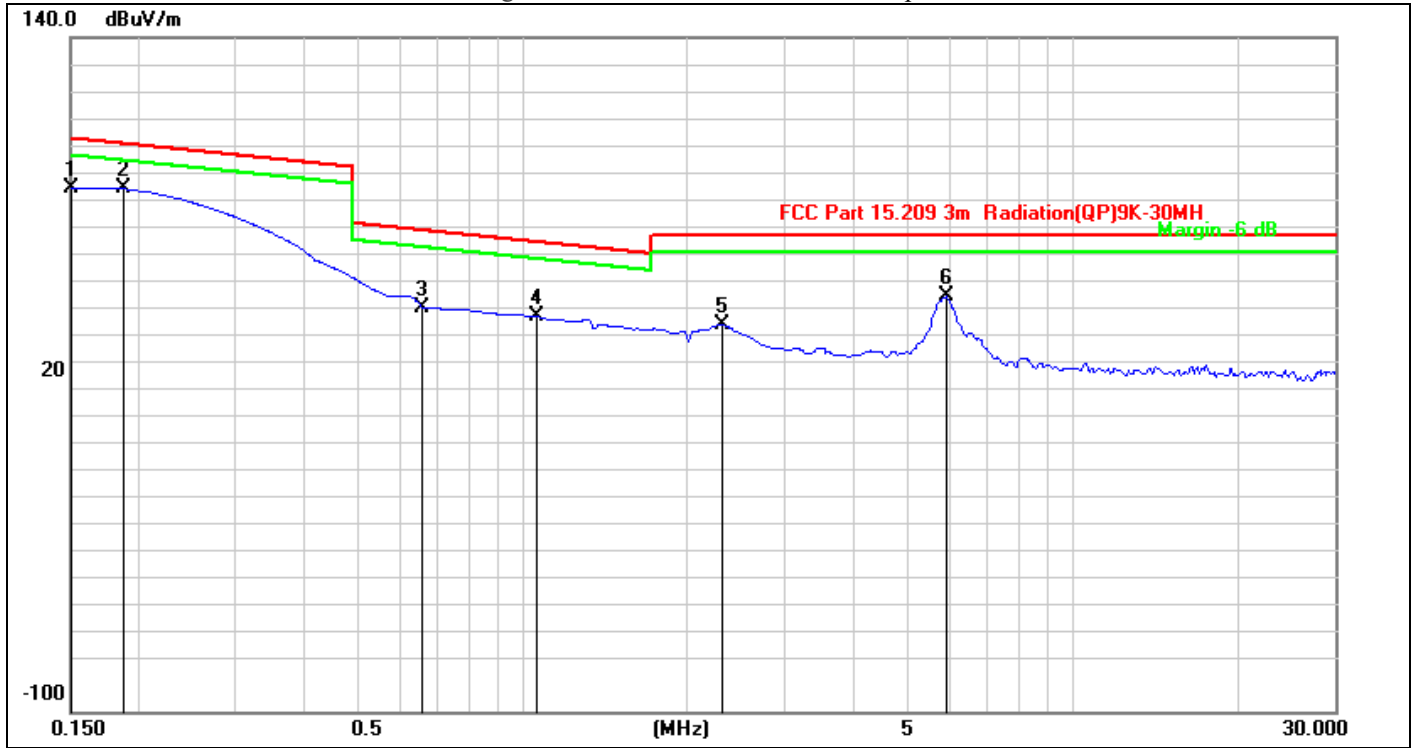
We pretested modes(Wireless Charging(5W)) for EUT. The worst mode (Wireless Charging (5W))test data see follow the table.



<b>Site:</b>	LAB	<b>Antenna::</b>	Vertical	<b>Temperature(C):</b>	23.4(C)
<b>Limit:</b>	FCC Part 15C 3m Radiation(QP)			<b>Humidity(%):</b>	56.7%
<b>EUT:</b>	Wireless charging table lamp	<b>Test Time:</b>			2023/02/09
<b>M/N:.</b>	LT2204304GW-BK	<b>Power Rating:</b>			AC 120V/60Hz
<b>Mode:</b>	Wireless Charging 5W	<b>Test Engineer:</b>			sunshine
<b>Note:</b>					

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1 *	0.0090	72.68	19.11	91.79	128.50	-36.71	QP	100	236	
2	0.0241	70.55	13.78	84.33	127.41	-43.08	QP	100	254	
3	0.0435	64.72	12.02	76.74	126.01	-49.27	QP	100	120	
4	0.0593	58.70	11.25	69.95	124.87	-54.92	QP	100	103	
5	0.0777	50.40	10.92	61.32	123.54	-62.22	QP	100	271	
6	0.1198	45.96	10.70	56.66	120.51	-63.85	QP	100	152	

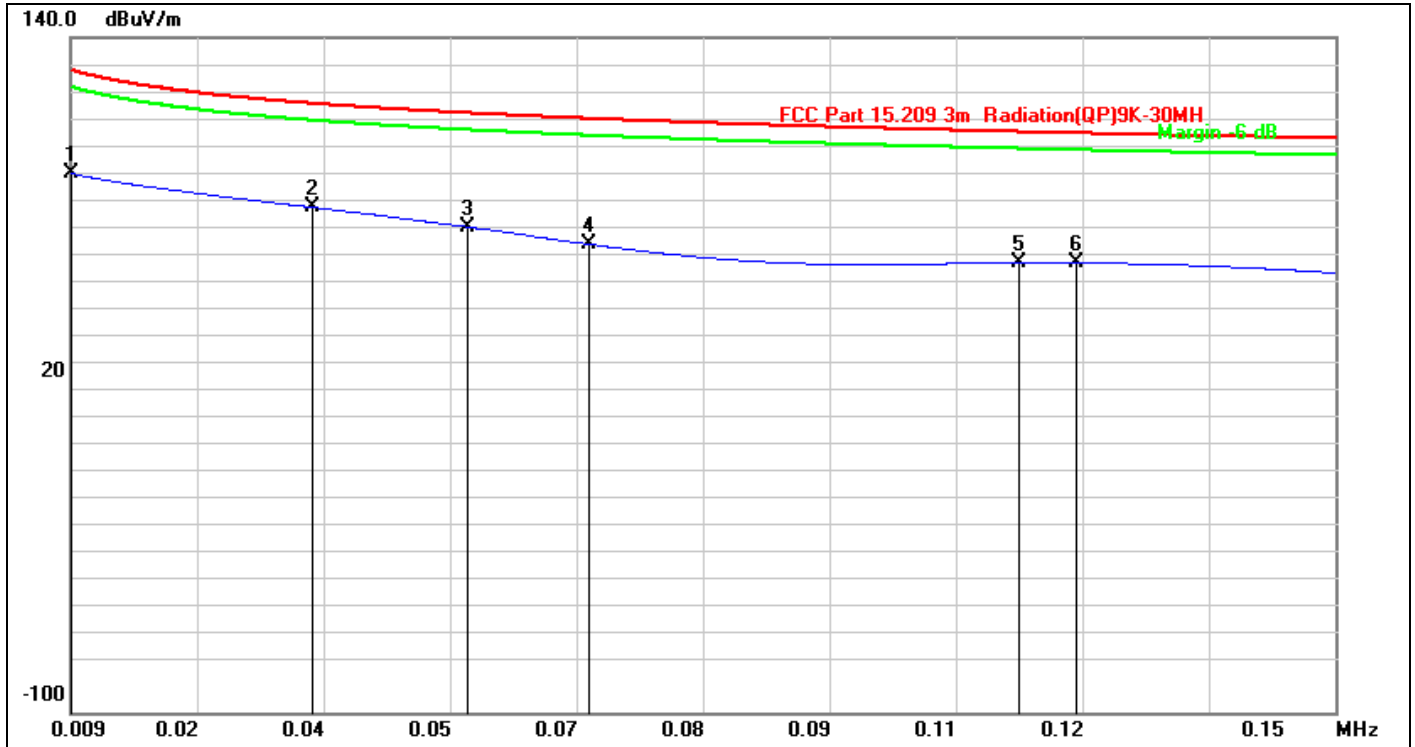
\*:Maximum data x:Over limit !:over margin



<b>Site:</b>	LAB	<b>Antenna::</b>	Vertical	<b>Temperature(C):</b>	23.4(C)
<b>Limit:</b>	FCC Part 15C 3m Radiation(QP)	<b>Test Time:</b>		<b>Humidity(%):</b>	56.7%
<b>EUT:</b>	Wireless charging table lamp	<b>Power Rating:</b>		<b>Test Engineer:</b>	sunshine
<b>M/N.:</b>	LT2204304GW-BK				
<b>Mode:</b>	Wireless Charging 5W				
<b>Note:</b>					

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	0.1500	75.87	10.64	86.51	104.08	-17.57	QP	100	236	
2 *	0.1874	75.47	10.61	86.08	102.14	-16.06	QP	100	254	
3	0.6575	33.11	10.53	43.64	71.25	-27.61	QP	100	120	
4	1.0597	29.99	10.54	40.53	67.12	-26.59	QP	100	103	
5	2.2992	27.05	10.60	37.65	69.50	-31.85	QP	100	271	
6	5.8812	36.89	10.74	47.63	69.50	-21.87	QP	100	152	

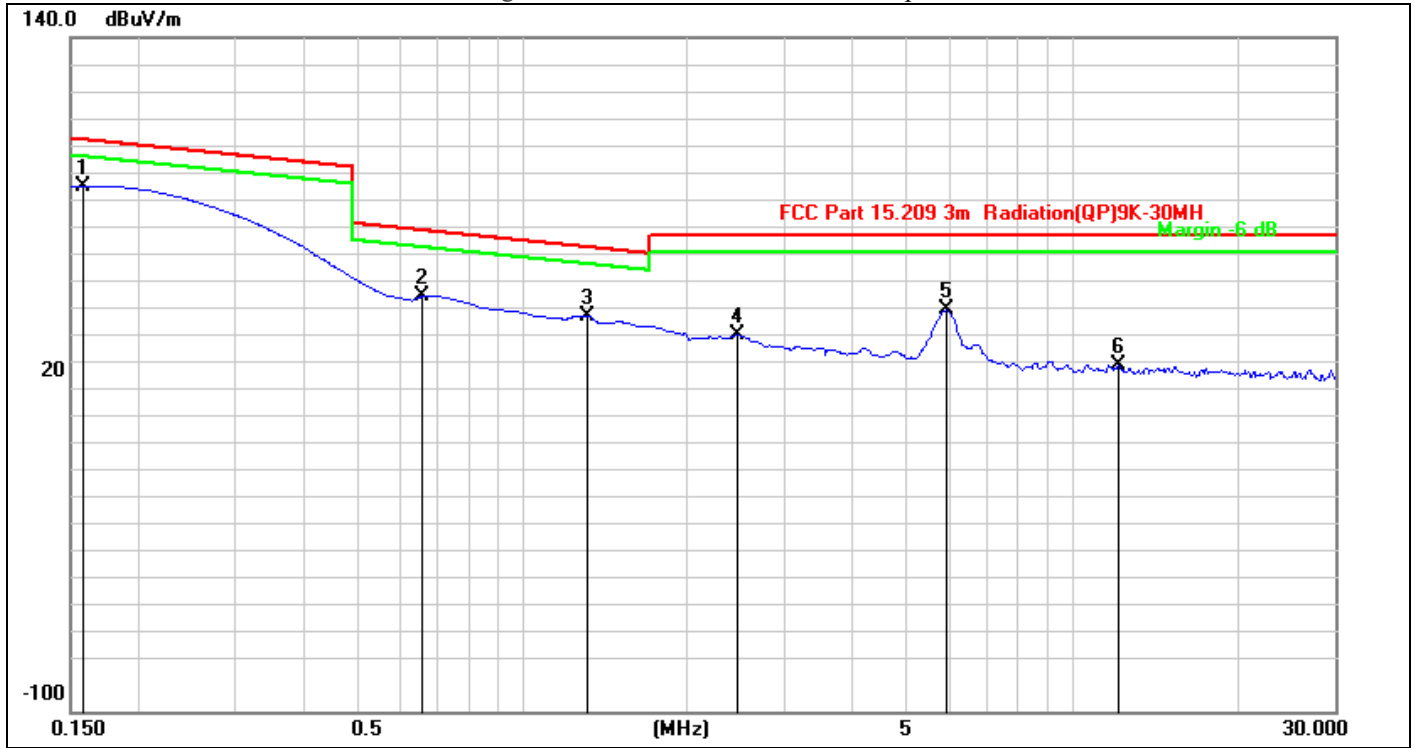
- Note:**
- (1) All Readings are Peak Value.
  - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
  - (3) The average measurement was not performed when the peak measured data under the limit of average detection.
  - (4) EUT lying on the table position is the worst case result in the report.



<b>Site:</b>	LAB	<b>Antenna::</b>	Horizontal	<b>Temperature(C):</b>	23.4(C)
<b>Limit:</b>	FCC Part 15C 3m Radiation(QP)	<b>Test Time:</b>		<b>Humidity(%):</b>	56.7%
<b>EUT:</b>	Wireless charging table lamp	<b>Power Rating:</b>		<b>Test Engineer:</b>	sunshine
<b>M/N.:</b>	LT2204304GW-BK				
<b>Mode:</b>	Wireless Charging 5W				
<b>Note:</b>					

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1 *	0.0090	72.66	19.11	91.77	128.50	-36.73	QP	100	236	
2	0.0359	66.94	12.71	79.65	126.56	-46.91	QP	100	254	
3	0.0533	61.26	11.37	72.63	125.30	-52.67	QP	100	120	
4	0.0668	55.41	11.10	66.51	124.33	-57.82	QP	100	103	
5	0.1147	49.24	10.71	59.95	120.87	-60.92	QP	100	271	
6	0.1211	49.18	10.70	59.88	120.41	-60.53	QP	100	152	

\*:Maximum data x:Over limit !:over margin



<b>Site:</b>	LAB	<b>Antenna::</b>	Horizontal	<b>Temperature(C):</b>	23.4(C)
<b>Limit:</b>	FCC Part 15C 3m Radiation(QP)	<b>Test Time:</b>		<b>Humidity(%):</b>	56.7%
<b>EUT:</b>	Wireless charging table lamp	<b>Power Rating:</b>		<b>Test Engineer:</b>	sunshine
<b>M/N.:</b>	LT2204304GW-BK				
<b>Mode:</b>	Wireless Charging 5W				
<b>Note:</b>					

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1 *	0.1582	76.41	10.64	87.05	103.61	-16.56	QP	100	236	
2	0.6575	37.55	10.53	48.08	71.25	-23.17	QP	100	254	
3	1.3142	30.38	10.55	40.93	65.25	-24.32	QP	100	120	
4	2.4485	23.33	10.61	33.94	69.50	-35.56	QP	100	103	
5	5.8812	32.15	10.74	42.89	69.50	-26.61	QP	100	271	
6	12.1198	12.49	10.75	23.24	69.50	-46.26	QP	100	152	

- 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 see follow the table.

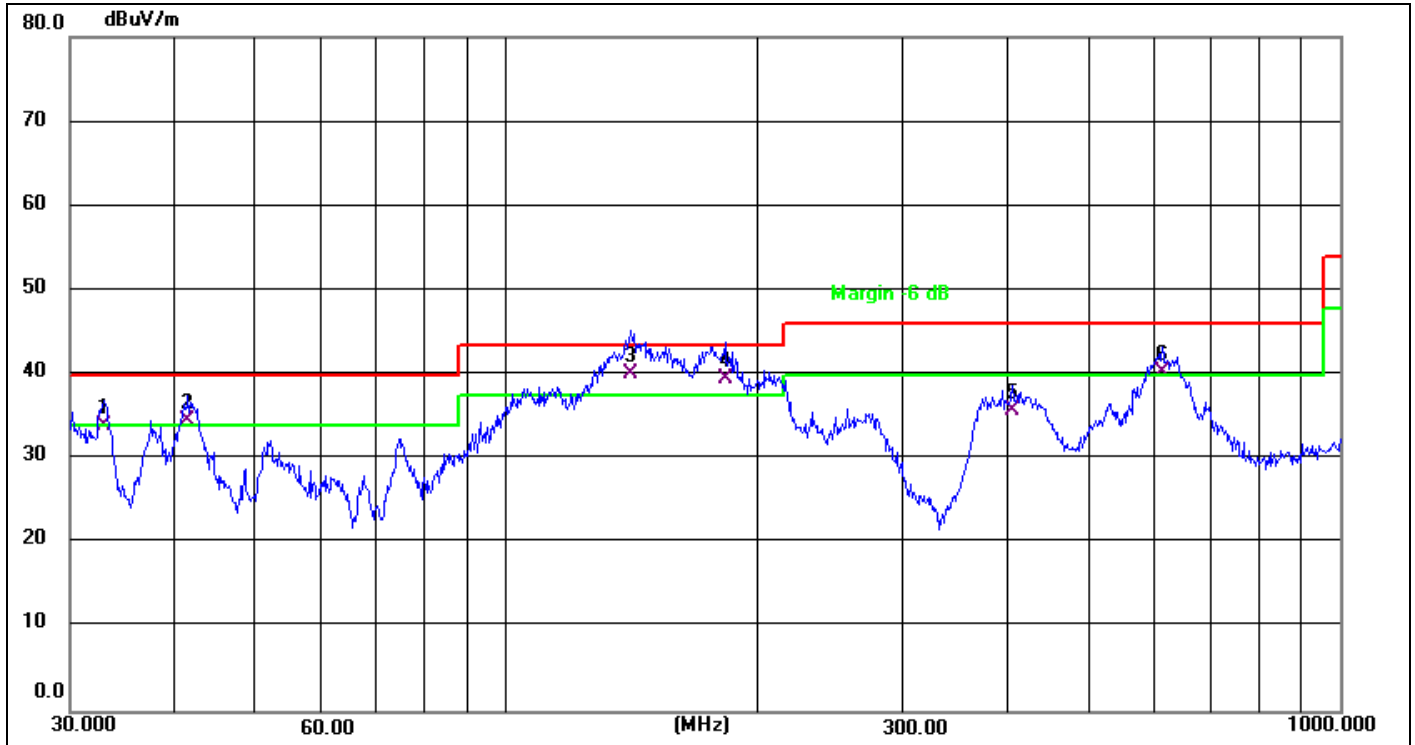
**Test mode: Wireless Charging 5W**



<b>Site:</b>	LAB	<b>Antenna::</b>	Horizontal	<b>Temperature(C):</b>	23.4(C)
<b>Limit:</b>	FCC Part 15C 3m Radiation(QP)	<b>Test Time:</b>		<b>Humidity(%):</b>	56.7%
<b>EUT:</b>	Wireless charging table lamp	<b>Power Rating:</b>			2022/12/30 9:01:05
<b>M/N.:</b>	LT2204304GW-BK	<b>Test Engineer:</b>			2022/12/30 8:59:40
<b>Mode:</b>	Wireless Charging 5W				sunshine
<b>Note:</b>					

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	145.3506	63.46	-31.33	32.13	43.50	-11.37	QP	100	45	
2 !	177.5092	70.74	-31.28	39.46	43.50	-4.04	QP	100	45	
3	301.4224	66.40	-31.00	35.40	46.00	-10.60	QP	100	27	
4	368.1116	64.63	-30.61	34.02	46.00	-11.98	QP	100	27	
5 !	556.7744	70.26	-29.85	40.41	46.00	-5.59	QP	100	96	
6 *	622.8900	71.39	-29.40	41.99	46.00	-4.01	QP	100	96	

\*:Maximum data x:Over limit !:over margin



<b>Site:</b>	<b>LAB</b>	<b>Antenna:: Vertical</b>	<b>Temperature(C):23.4(C)</b>
<b>Limit:</b>	<b>FCC Part 15C 3m Radiation(QP)</b>		<b>Humidity(%):56.7%</b>
<b>EUT:</b>	<b>Wireless charging table lamp</b>	<b>Test Time:</b>	<b>2022/12/30 9:02:21</b>
<b>M/N.:</b>	<b>LT2204304GW-BK</b>	<b>Power Rating:</b>	<b>AC 120V/60Hz</b>
<b>Mode:</b>	<b>Wireless Charging 5W</b>	<b>Test Engineer:</b>	<b>sunshine</b>
<b>Note:</b>			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	32.9791	46.76	-12.77	33.99	40.00	-6.01	QP	100	45	
2 !	41.5670	46.78	-12.28	34.50	40.00	-5.50	QP	100	45	
3 *	141.3298	71.43	-31.33	40.10	43.50	-3.40	QP	100	27	
4 !	183.2005	70.77	-31.27	39.50	43.50	-4.00	QP	100	27	
5	404.6665	66.04	-30.34	35.70	46.00	-10.30	QP	100	96	
6 !	612.0642	69.69	-29.49	40.20	46.00	-5.80	QP	100	96	

### 6.6 Radiated Measurement Photos





## 7 20db Bandwidth

### 7.1 20dB Bandwidth Limit

None: for reporting purposed only.

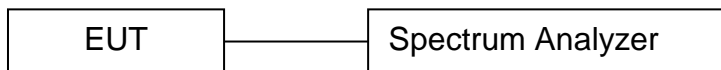
### 7.2 Test Instruments

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



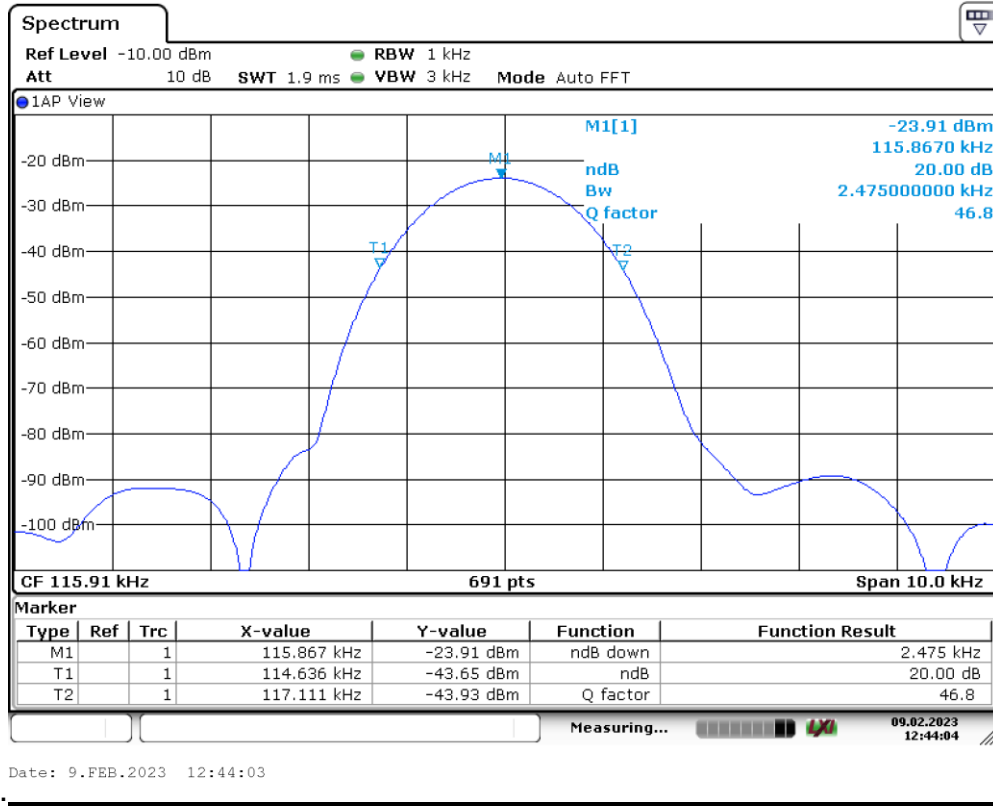
### 7.5 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	CALIBRATED UNTIL
Spectrum Analyzer	R&S	FSV40	102257	2023-10-07

### 7.6 Test Result

Frequency (KHz)	20dB Bandwidth (KHz)	Results
115.91	2.475	PASS

### 20 dB Bandwidth Test plot



# 1 Antenna Application

## 1.1 Antenna requirement

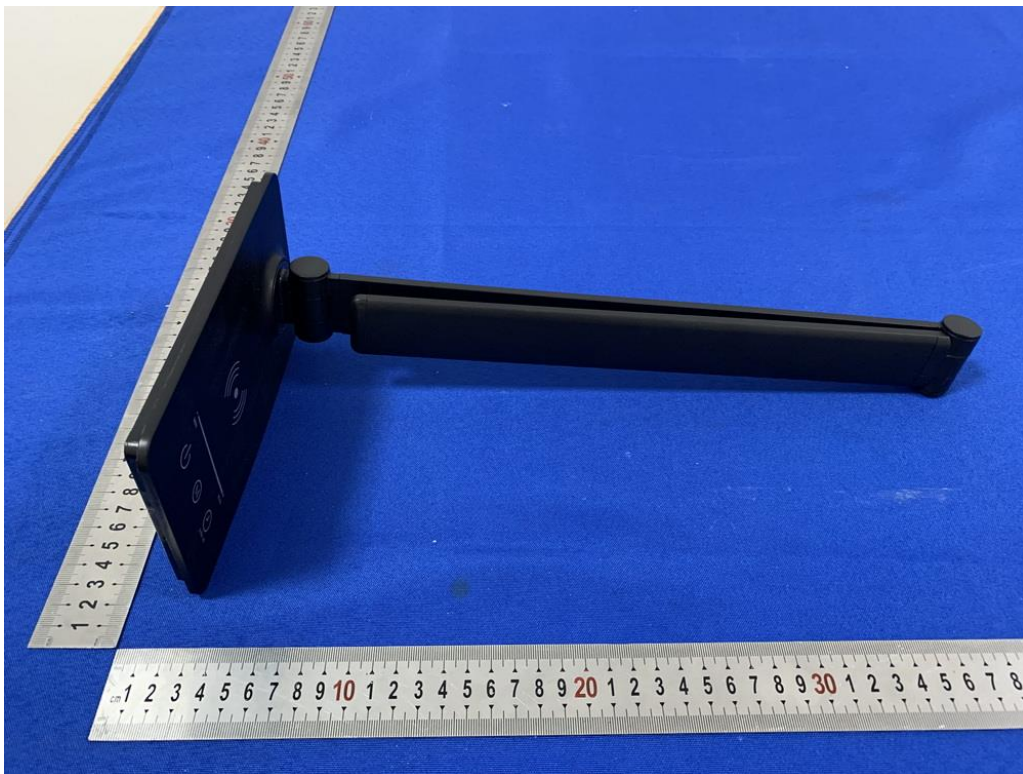
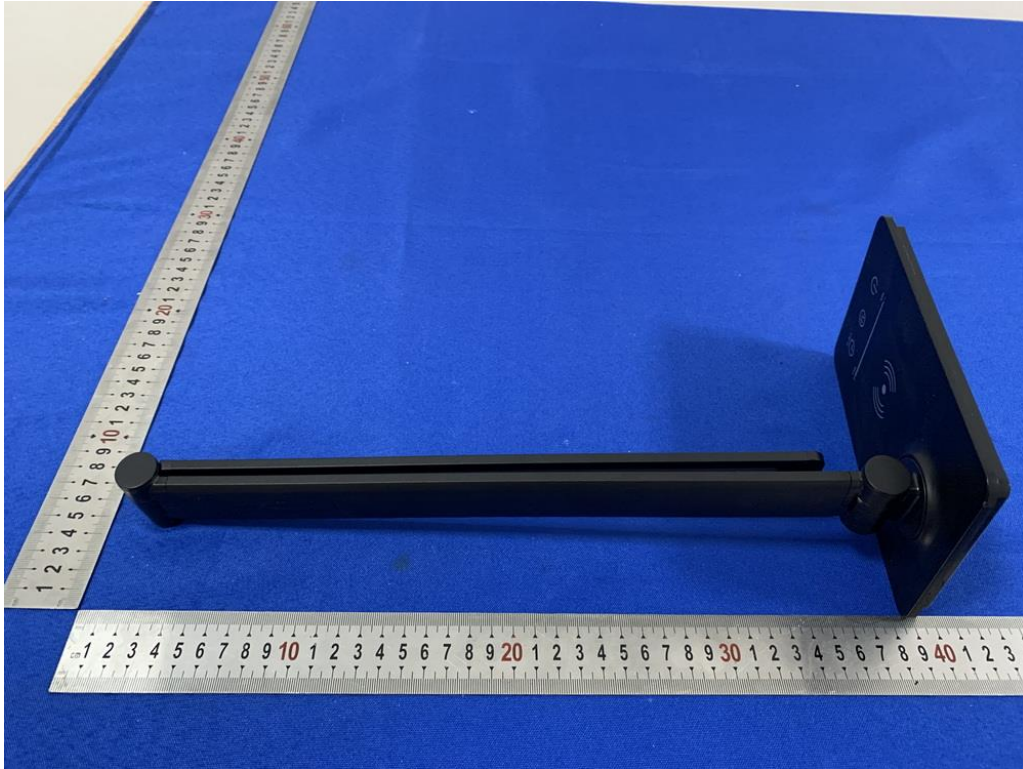
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

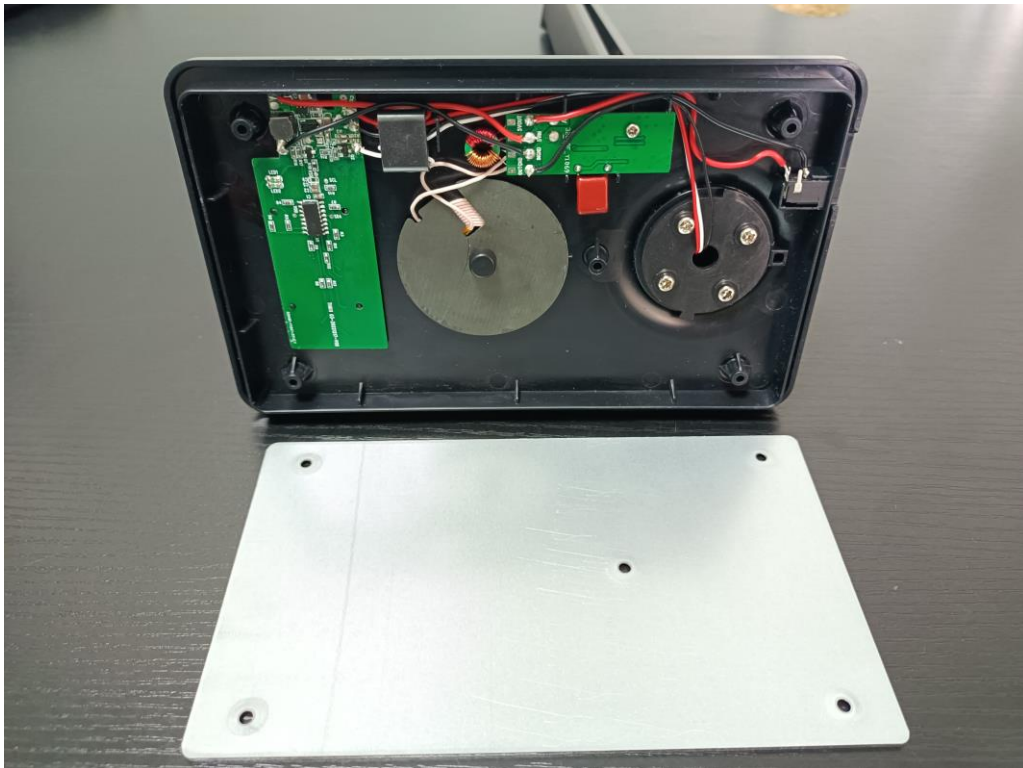
## 1.2 Result

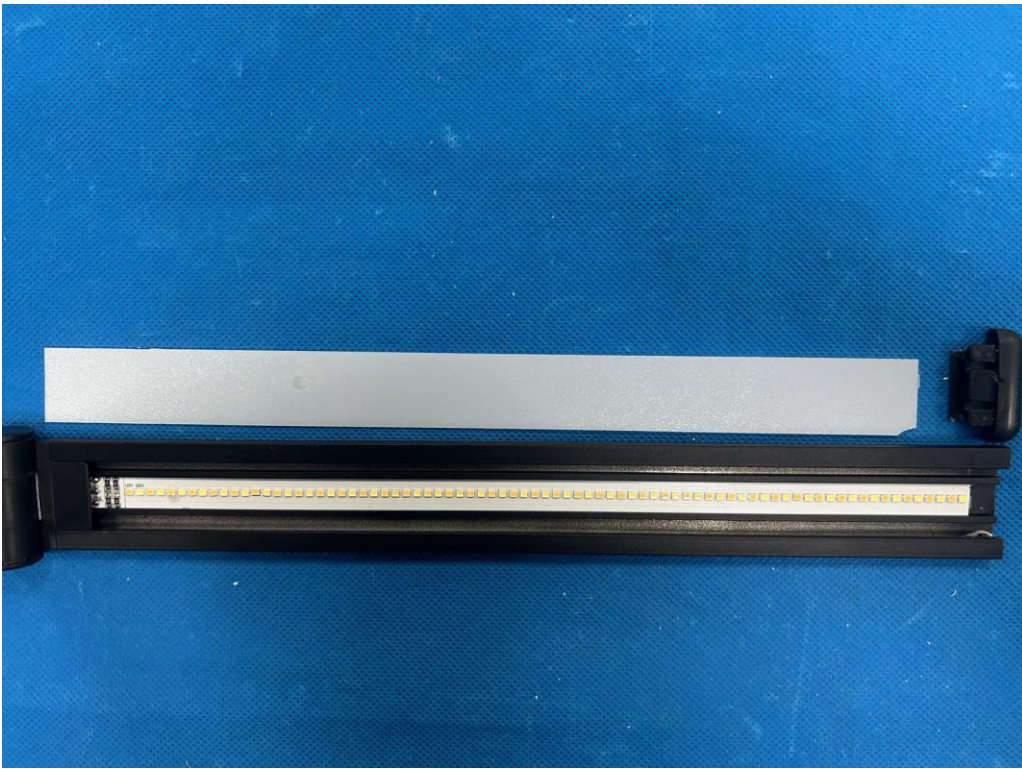
The EUT's antenna, permanent attached antenna, used an Induction coil and integrated on PCB, The antenna's gain meets the requirement.

## APPENDIX (Photos of EUT)

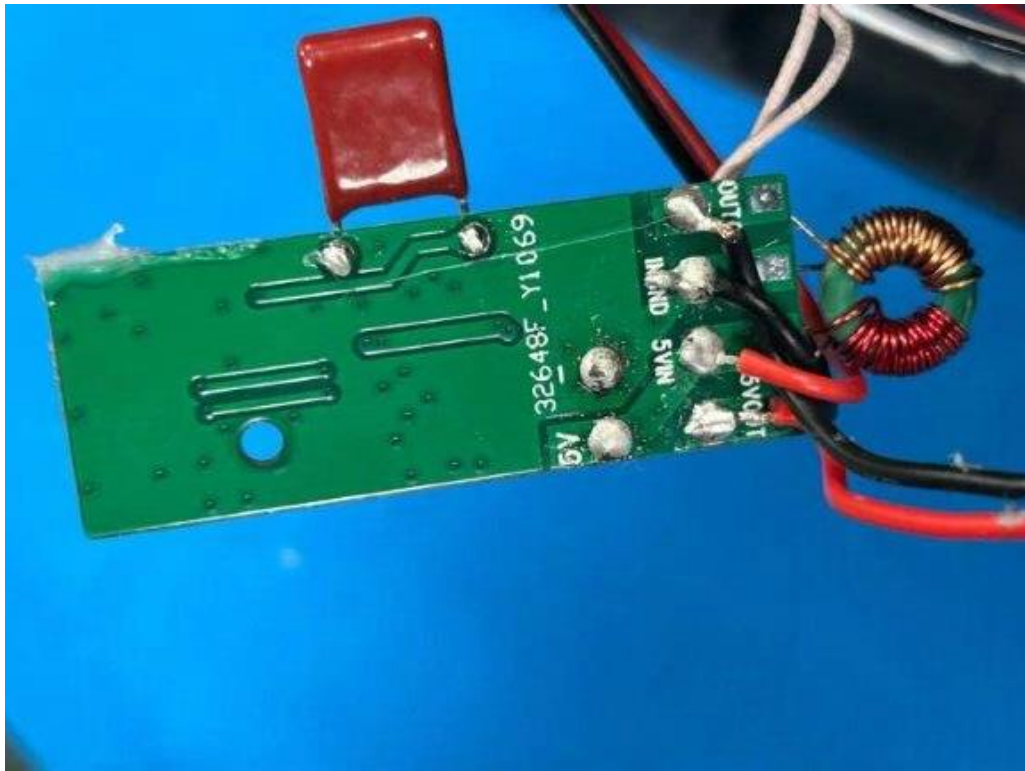
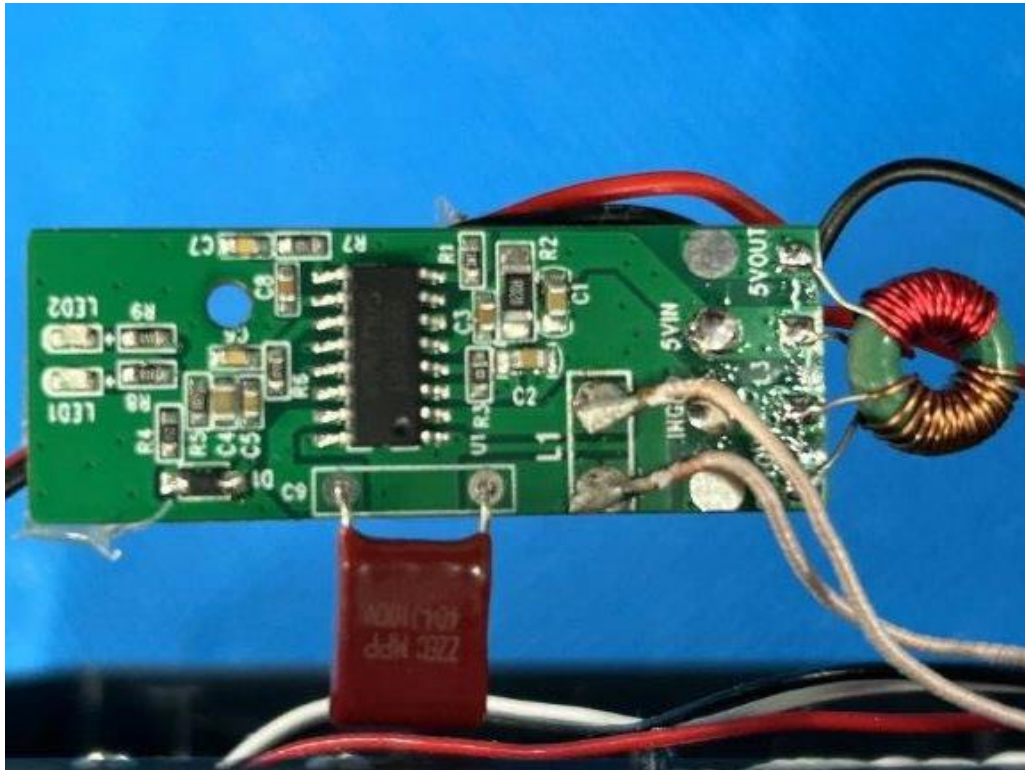


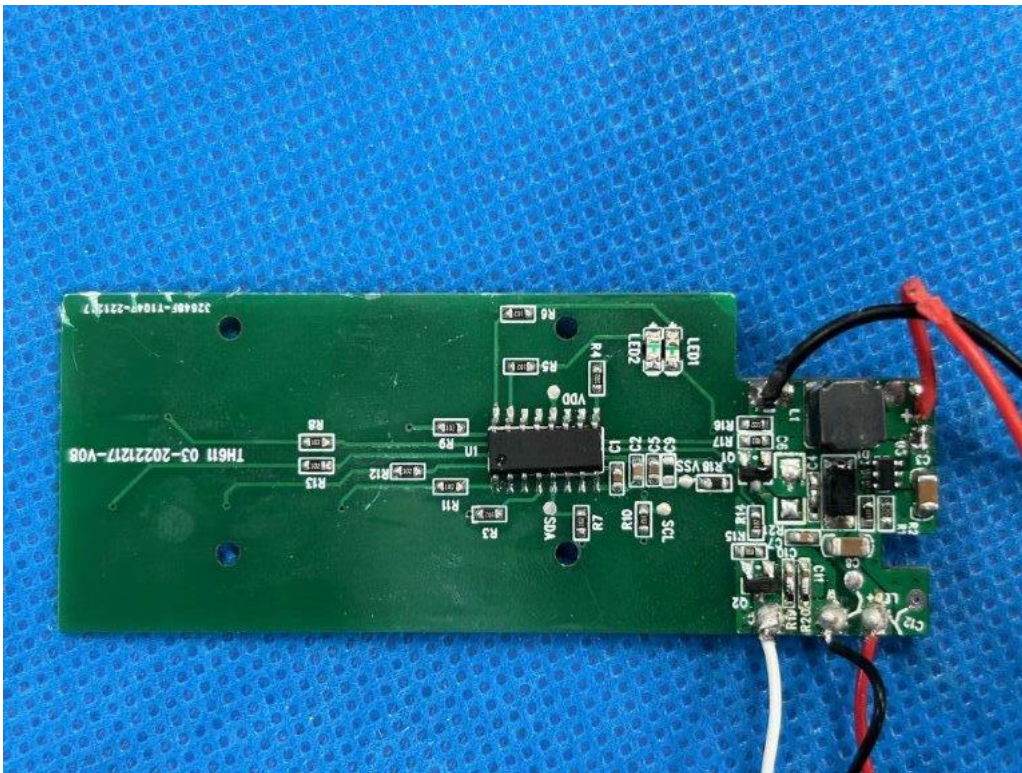
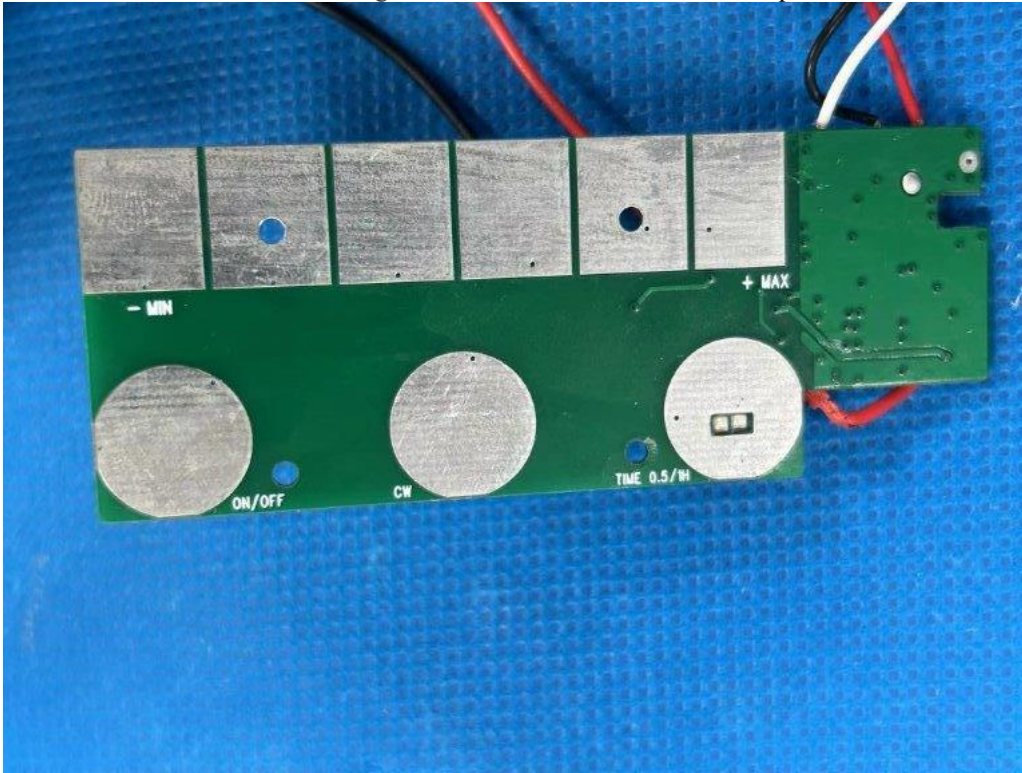












---The end of report---