

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

OF

PORTABLE POWER STATION

Model No.: P500 Mini, P300, P300 Mini, P500, TP500, P600, J600

Trademark: N/A

FCC ID: 2A44J-P500

Report No.: E01A23040846F00501

Issue Date: May 22, 2023

Prepared for

Shenzhen VIP-TEK Electronic Co., Ltd

**B3 Building, Block B, Tianrui Industrial Park, 1st Road of Fuyuan, Xinhe
Community, Fuhai, Baoan District, Shenzhen, Guangdong.**

Prepared by

Dong Guan Anci Electronic Technology Co., Ltd.

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Hi-tech Industrial Development Zone, Dongguan City, Guangdong Pr.,
China.**

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

VERIFICATION OF COMPLIANCE

Applicant:	Shenzhen VIP-TEK Electronic Co., Ltd B3 Building, Block B, Tianrui Industrial Park, 1st Road of Fuyuan, Xinhe Community, Fuhai, Baoan District, Shenzhen, Guangdong.
Manufacturer	Dongguan VIP-TEK Enterprise Limited. No.17 Minchang Road, Nanzha, Humen Town, Dongguan, Guangdong, China.
Product Description:	PORTABLE POWER STATION
Trade Mark:	N/A
Model Number:	P500 Mini, P300, P300 Mini, P500, TP500, P600, J600(Note: All models are the same, except the model name.)

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(2020).

Date of Test : May 06, 2023 to May 10, 2023

Prepared by : _____
Duke Liu / Editor



Reviewer &
Authorized Signer : _____
Tiger Xu / Supervisor

Modified Information

Version	Summary	Revision Date	Report No.
Ver.1.0	Original Report	/	E01A23040846F00501

Table of Contents

1 GENERAL INFORMATION	5
1.1 PRODUCT DESCRIPTION	5
1.2 RELATED SUBMITTAL(S) / GRANT(S)	6
1.3 TEST METHODOLOGY	6
1.4 SPECIAL ACCESSORIES	6
1.5 EQUIPMENT MODIFICATIONS	6
1.6 TEST FACILITY.....	6
2 SYSTEM TEST CONFIGURATION.....	7
2.1 EUT CONFIGURATION	7
2.2 EUT EXERCISE	7
2.3 TEST PROCEDURE	7
2.4 CONFIGURATION OF TESTED SYSTEM.....	8
3 SUMMARY OF TEST RESULTS.....	8
4 TEST SYSTEM UNCERTAINTY.....	9
5 CONDUCTED EMISSIONS TEST	10
5.1 MEASUREMENT PROCEDURE	10
5.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	10
5.3 MEASUREMENT EQUIPMENT USED.....	10
5.4 CONDUCTED EMISSION LIMIT	10
5.5 MEASUREMENT RESULT	11
5.6 CONDUCTED MEASUREMENT PHOTO.....	14
6 RADIATED EMISSION TEST.....	15
6.1 MEASUREMENT PROCEDURE	15
6.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	15
6.3 MEASUREMENT EQUIPMENT USED.....	16
6.4 RADIATED EMISSION LIMIT	16
6.5 MEASUREMENT RESULT	18
6.6 RADIATED MEASUREMENT PHOTOS.....	24
7 20DB BANDWIDTH.....	25
7.1 20dB BANDWIDTH LIMIT	25
7.2 TEST INSTRUMENTS.....	25
7.3 TEST PROCEDURE	25
7.4 TEST SETUP.....	25
7.5 TEST RESULT	25
8 ANTENNA APPLICATION	27
8.1 ANTENNA REQUIREMENT	27
8.2 RESULT	27

1 General Information

1.1 Product Description

Characteristics	Description
Product Name	PORTABLE POWER STATION
Model number	P500 Mini
Operation Mode	Wireless Charging
Input Rating	12V~24V $\overline{=}$ 5A, 80W Max
Power Supply	AC120V/60Hz for adapter
Operating Frequency	110-205KHz
Wireless Charging Power	15W Max.
Modulation Technique	FSK
Antenna Type	Induction coil

1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: 2A44J-P500 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 CNAS, 2017.06.26 The certificate is valid until 2022.10.28 The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2005) The Certificate Registration Number is L6214. Accredited by A2LA, 2018.03.15 The Certificate Number is 4422.01.
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 onfiguration of Tested System

Fig. 2-1 Configuration of Tested System

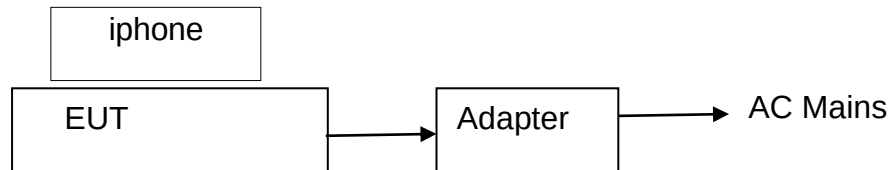


Table 2-1 Equipment Used in Tested System

Item	Equipment	Trade Mark	Model No.	FCC ID	Note
1.	PORTABLE POWER STATION	N/A	P500 Mini	2A44J-P500	EUT
2.	Power Supply	N/A	Model: YN-90WA200400W1 Input: 100-240V~, 50/60Hz, 1.5A Output: 20.0V $\equiv$ 4.0A 80.0W	N/A	<i>Support Equipment</i>
3.	iphone	Apple	A2404	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
Conducted Emissions Test	$\pm 2.0\text{dB}$
Radiated Emission Test	$\pm 2.0\text{dB}$
Temperature	$\pm 0.5^{\circ}\text{C}$
Humidity	$\pm 3\%$

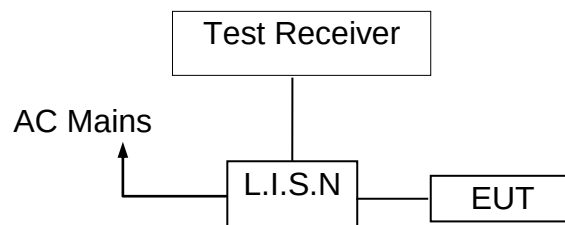
Remark: The coverage Factor ($k=2$), and measurement Uncertainty for a level of Confidence of 95%

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 TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	Calibrated until
L.I.S.N	SCHWARZBECK	NSLK 8127	8127-669	2023-05-12
10 db attenuator	JFW	50FP-010-H4	4360846-427-1	2023-05-12
RF Cable	N/A	N/A	2#	2023-05-12
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	101358	2023-05-12

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

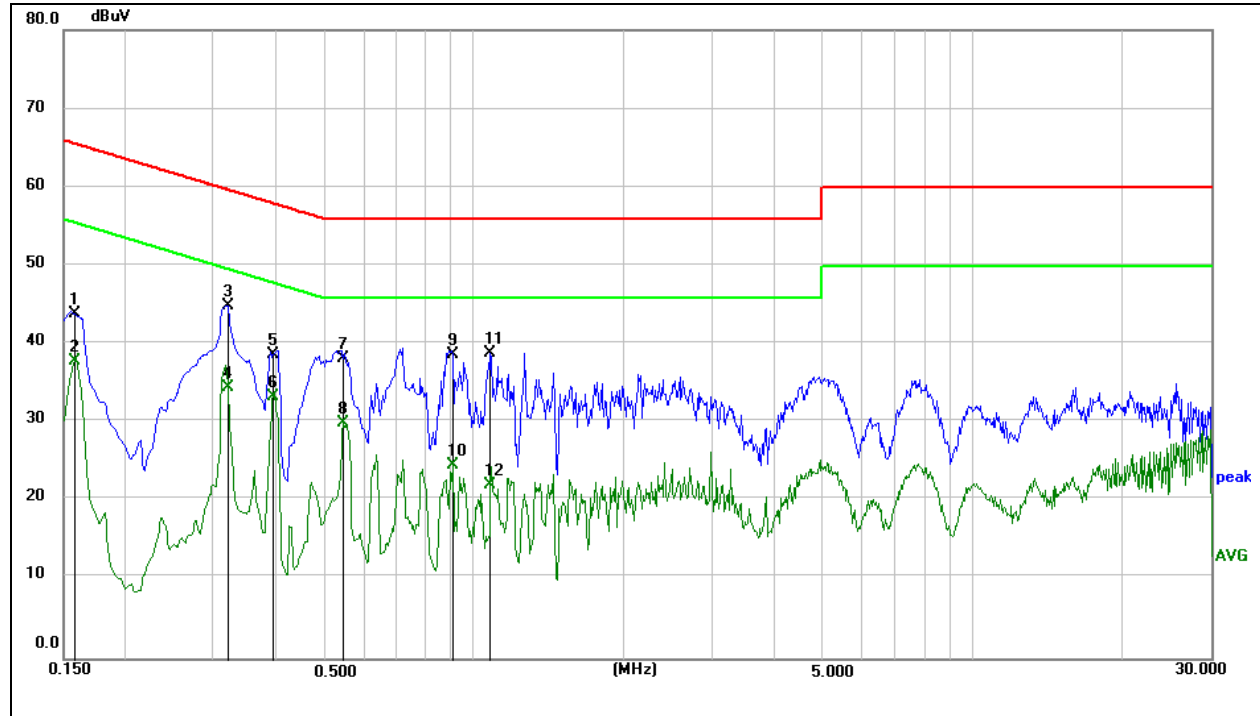
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.5 Measurement Result

Operation Mode:	TX	Test Date :	2023/01/09
Frequency Range:	0.15MHz~30MHz	Temperature :	22℃
Test Result:	PASS	Humidity :	55 %
Test By:	Best		

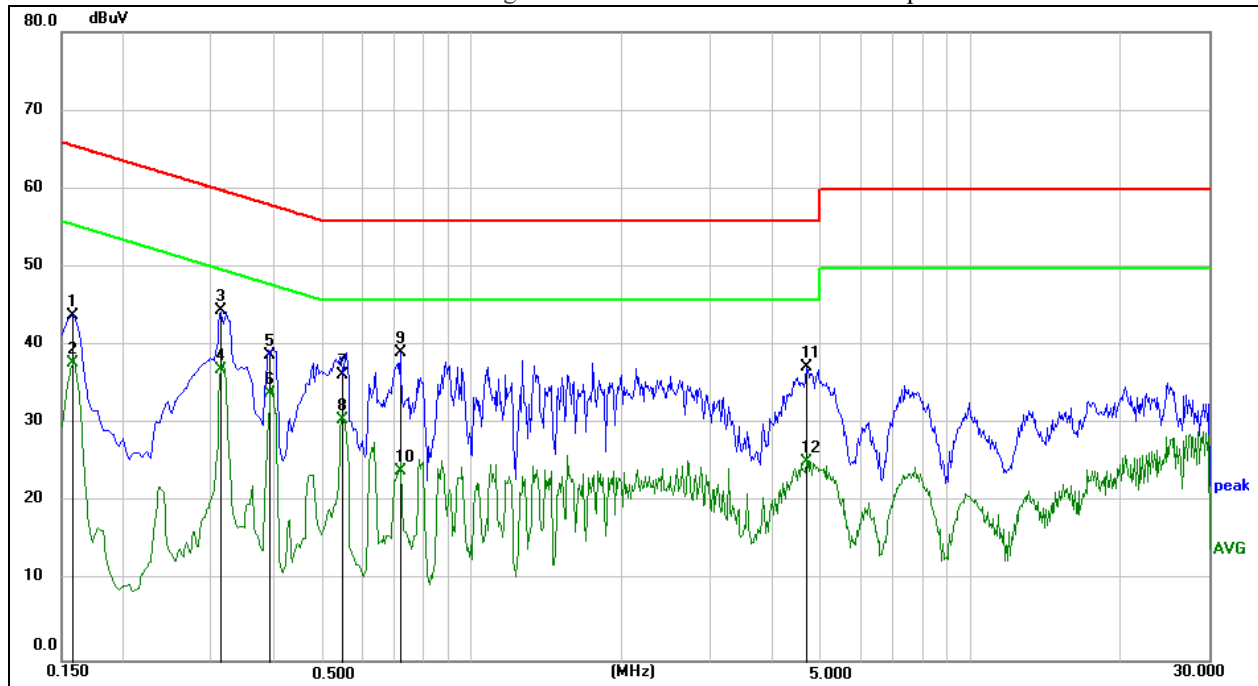
Pass

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

Test mode: Wireless Charging 15W

Site:	843	Phase: L1	Temperature(C): 22
Limit:	FCC Part 15 C Conduction(QP)		Humidity(%): 55
EUT:	PORTABLE POWER STATION	Test Time:	2023/01/10
M/N.:	P500 Mini	Power Rating:	AC 120V/60Hz
Mode:	Wireless Charging 15W	Test Engineer:	Jack
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1582	34.30	9.57	43.87	65.56	-21.69	QP	
2	0.1582	28.40	9.57	37.97	55.56	-17.59	AVG	
3	0.3209	35.19	9.70	44.89	59.68	-14.79	QP	
4	0.3209	24.86	9.70	34.56	49.68	-15.12	AVG	
5	0.3955	29.02	9.72	38.74	57.95	-19.21	QP	
6	0.3955	23.67	9.72	33.39	47.95	-14.56	AVG	
7	0.5460	28.78	9.54	38.32	56.00	-17.68	QP	
8	0.5460	20.48	9.54	30.02	46.00	-15.98	AVG	
9	0.9060	28.77	9.97	38.74	56.00	-17.26	QP	
10	0.9060	14.70	9.97	24.67	46.00	-21.33	AVG	
11	1.0770	29.00	9.91	38.91	56.00	-17.09	QP	
12	1.0770	12.22	9.91	22.13	46.00	-23.87	AVG	



Site:	843	Phase:	N	Temperature(C):	22
Limit:	FCC Part 15 C Conduction(QP)			Humidity(%):	55
EUT:	PORTABLE POWER STATION	Test Time:	2023/01/10		
M/N.:	P500 Mini	Power Rating:	AC 120V/60Hz		
Mode:	Wireless Charging 15W	Test Engineer:	Jack		
Note:					

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1582	34.47	9.50	43.97	65.56	-21.59	QP	
2	0.1582	28.41	9.50	37.91	55.56	-17.65	AVG	
3	0.3120	34.77	9.75	44.52	59.92	-15.40	QP	
4	0.3120	27.25	9.75	37.00	49.92	-12.92	AVG	
5	0.3930	29.20	9.78	38.98	58.00	-19.02	QP	
6	0.3930	24.31	9.78	34.09	48.00	-13.91	AVG	
7	0.5505	26.69	9.65	36.34	56.00	-19.66	QP	
8	0.5505	21.13	9.65	30.78	46.00	-15.22	AVG	
9	0.7170	29.69	9.60	39.29	56.00	-16.71	QP	
10	0.7170	14.58	9.60	24.18	46.00	-21.82	AVG	
11	4.6725	27.61	9.84	37.45	56.00	-18.55	QP	
12	4.6725	15.51	9.84	25.35	46.00	-20.65	AVG	

5.6 Conducted Measurement Photo



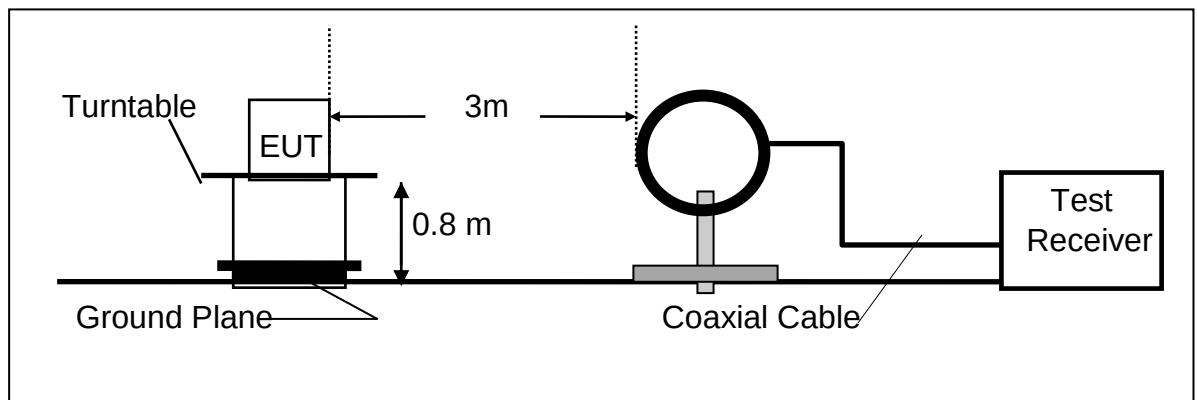
6 Radiated Emission Test

6.1 Measurement Procedure

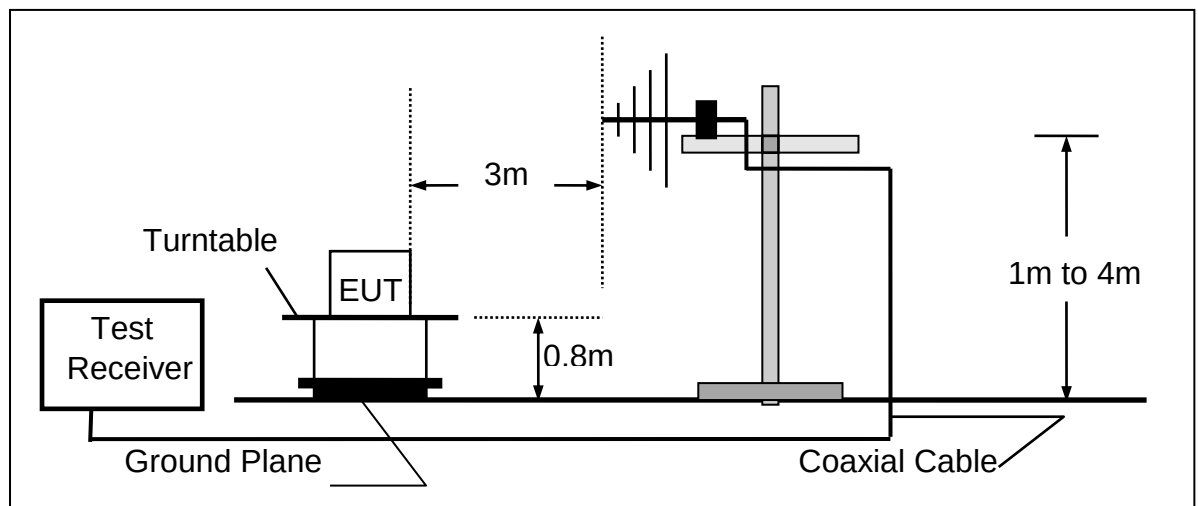
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above 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	2023-10-07
2.	Pre-Amplifier	HP	8447D	2727A06172	2023-05-12
3.	Bilog Antenna	Schwarzbeck	VULB9163	VULB9163-588	2023-05-12
4.	Loop Antenna	Schwarzbeck	FMZB 1516	1516-141	2023-10-07
5.	RF Cable	Gigalink Microwave	ZT40-2.92J-2.92 J-2m	N/A	2023-10-07
6.	RF Cable	Gigalink Microwave	ZT40-2.92J-2.92 J-0.3m	N/A	2023-10-07
7.	RF Cable	N/A	N/A	6#	2023-05-12
8.	3m Semi-anechoic Chamber	chengyu	9m*6m*6m	N/A	2024-11-11
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	$2400 / F(\text{KHz})$	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

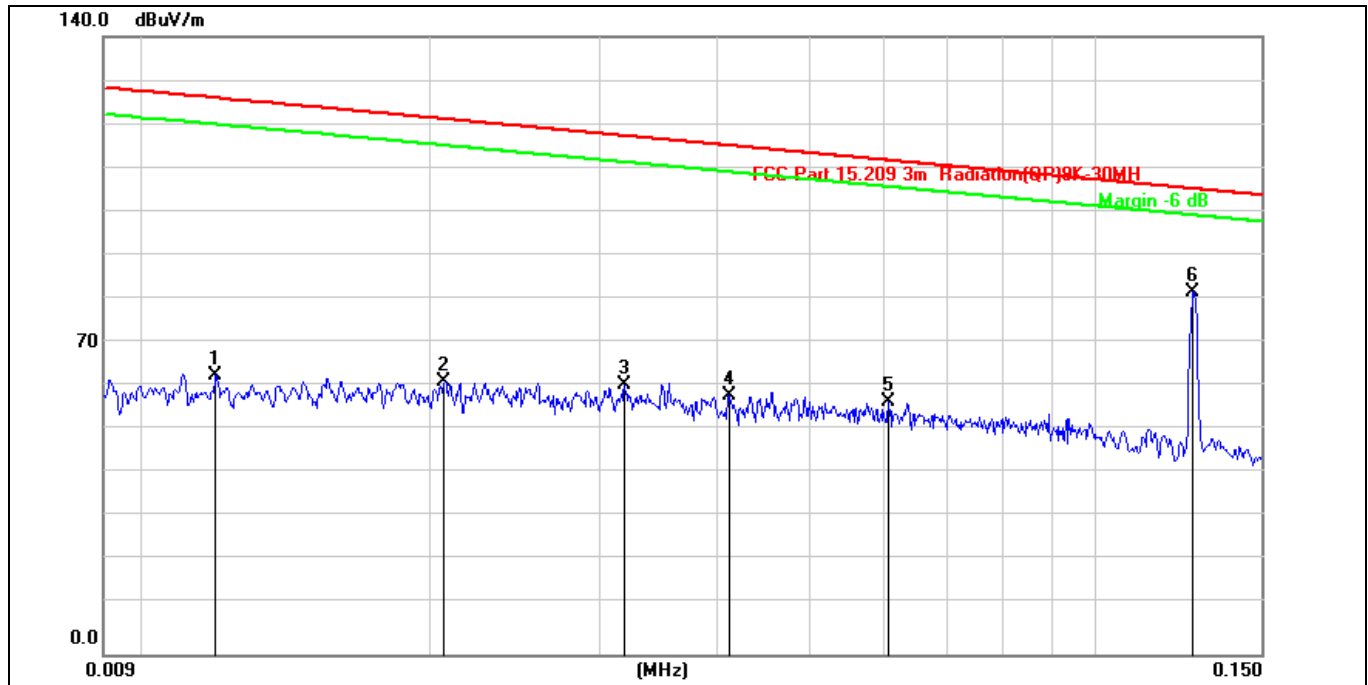
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 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

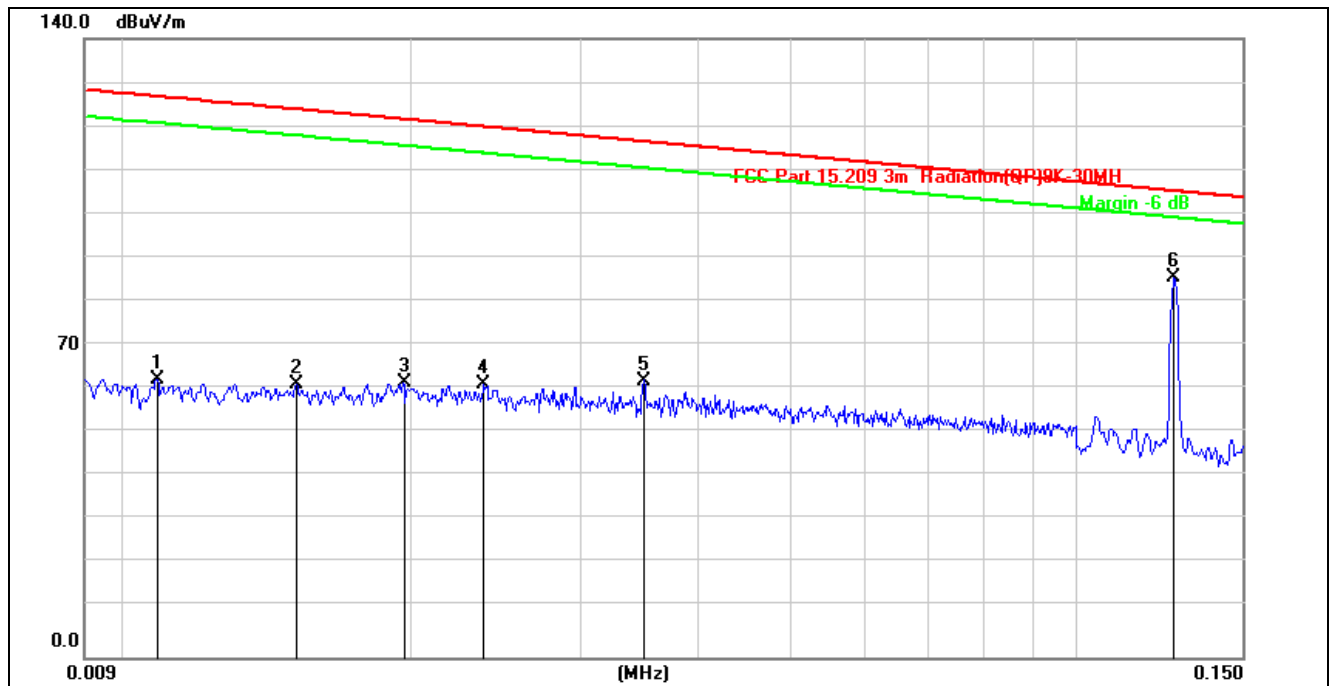
We pretested modes (Wireless Charging 15W) for EUT. The worst mode test data see follow the table.

Test mode: Wireless Charging 15W



Site:	LAB	Antenna::	Vertical	Temperature(C):	23.4(C)
Limit:	FCC Part 15C 3m Radiation(QP)			Humidity(%):	56.7%
EUT:	PORTABLE POWER STATION	Test Time:		2023-05-09	
M/N.:	P500 Mini	Power Rating:		AC 120V/60Hz	
Mode:	Wireless Charging 15W	Test Engineer:		sunshine	
Note:					

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.0118	42.89	20.41	63.30	126.15	-62.85	QP	
2	0.0206	41.41	20.28	61.69	121.31	-59.62	QP	
3	0.0319	41.03	20.12	61.15	117.52	-56.37	QP	
4	0.0411	38.56	20.03	58.59	115.32	-56.73	QP	
5	0.0606	37.43	19.78	57.21	111.94	-54.73	QP	
6	0.1271	62.37	19.63	82.00	105.51	-23.51	QP	

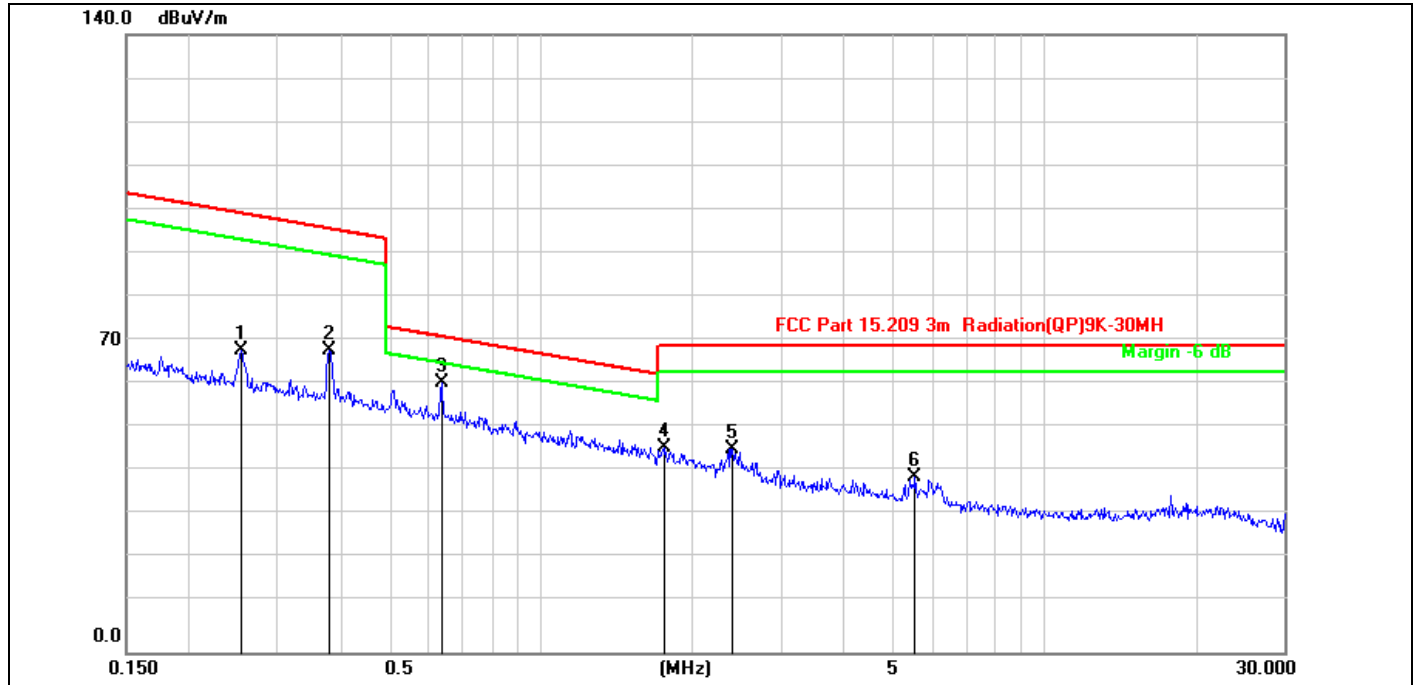


Site:	LAB	Antenna::	Horizontal	Temperature(C):	23.4(C)
Limit:	FCC Part 15C 3m Radiation(QP)	Test Time:		Humidity(%):	56.7%
EUT:	PORTABLE POWER STATION	Power Rating:		AC 120V/60Hz	
M/N.:	P500 Mini	Test Engineer:		sunshine	
Mode:	Wireless Charging 15W				
Note:					

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.0107	42.41	20.42	62.83	127.00	-64.17	QP	
2	0.0151	41.30	20.36	61.66	124.01	-62.35	QP	
3	0.0195	41.72	20.30	62.02	121.79	-59.77	QP	
4	0.0238	41.39	20.24	61.63	120.06	-58.43	QP	
5	0.0350	42.56	20.09	62.65	116.71	-54.06	QP	
6	0.1271	66.19	19.63	85.82	105.51	-19.69	QP	

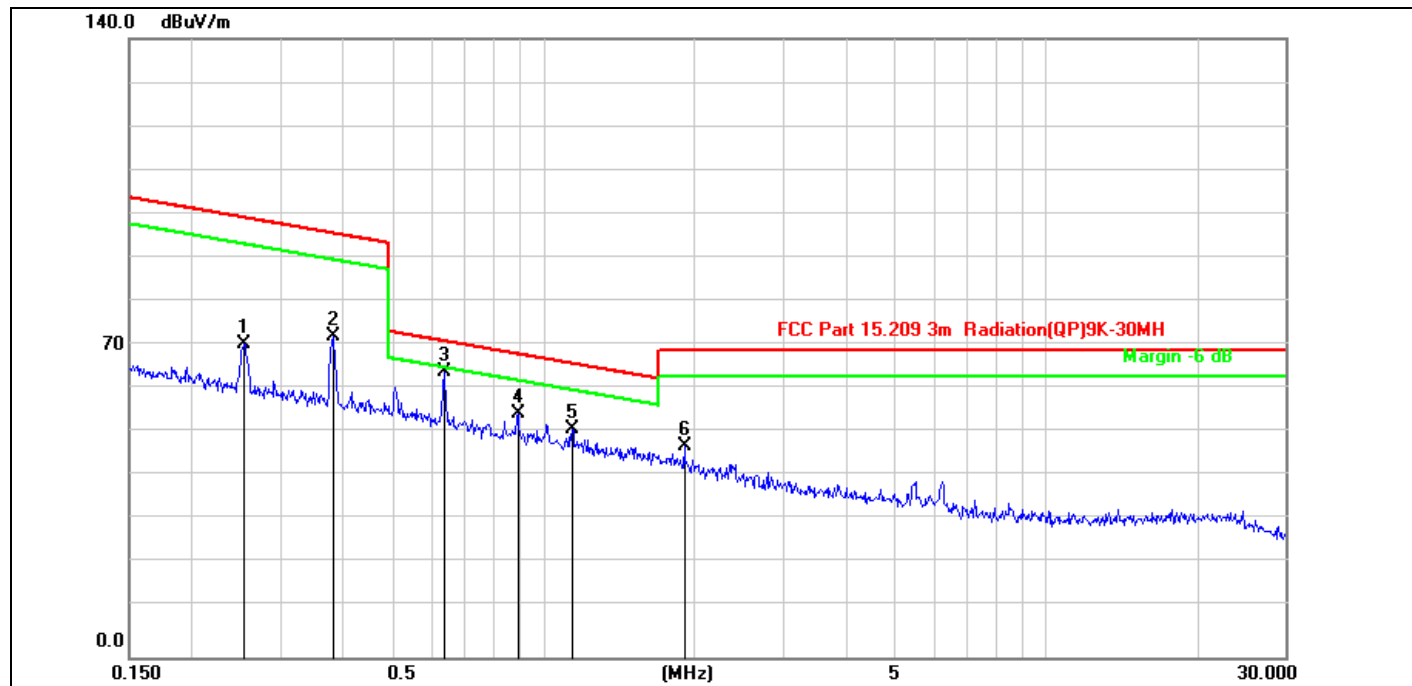
Note:

- (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.

Test mode: Wireless Charging 15W

Site:	LAB	Antenna::	Vertical	Temperature(C):	23.4(C)
Limit:	FCC Part 15C 3m Radiation(QP)			Humidity(%):	56.7%
EUT:	PORTABLE POWER STATION	Test Time:		2023-05-09	
M/N.:	P500 Mini	Power Rating:		AC 120V/60Hz	
Mode:	Wireless Charging 15W	Test Engineer:		sunshine	
Note:					

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.2535	48.64	19.63	68.27	99.52	-31.25	QP	
2	0.3791	48.75	19.60	68.35	96.03	-27.68	QP	
3	0.6338	41.62	19.55	61.17	71.57	-10.40	QP	
4	1.7529	26.78	19.51	46.29	69.50	-23.21	QP	
5	2.3962	26.53	19.57	46.10	69.50	-23.40	QP	
6	5.5347	19.99	19.76	39.75	69.50	-29.75	QP	



Site:	LAB	Antenna::	Horizontal	Temperature(C):	23.4(C)
Limit:	FCC Part 15C 3m Radiation(QP)	Test Time:		Humidity(%):	56.7%
EUT:	PORTABLE POWER STATION	Power Rating:		Test Engineer:	sunshine
M/N.:	P500 Mini				
Mode:	Wireless Charging 15W				
Note:					

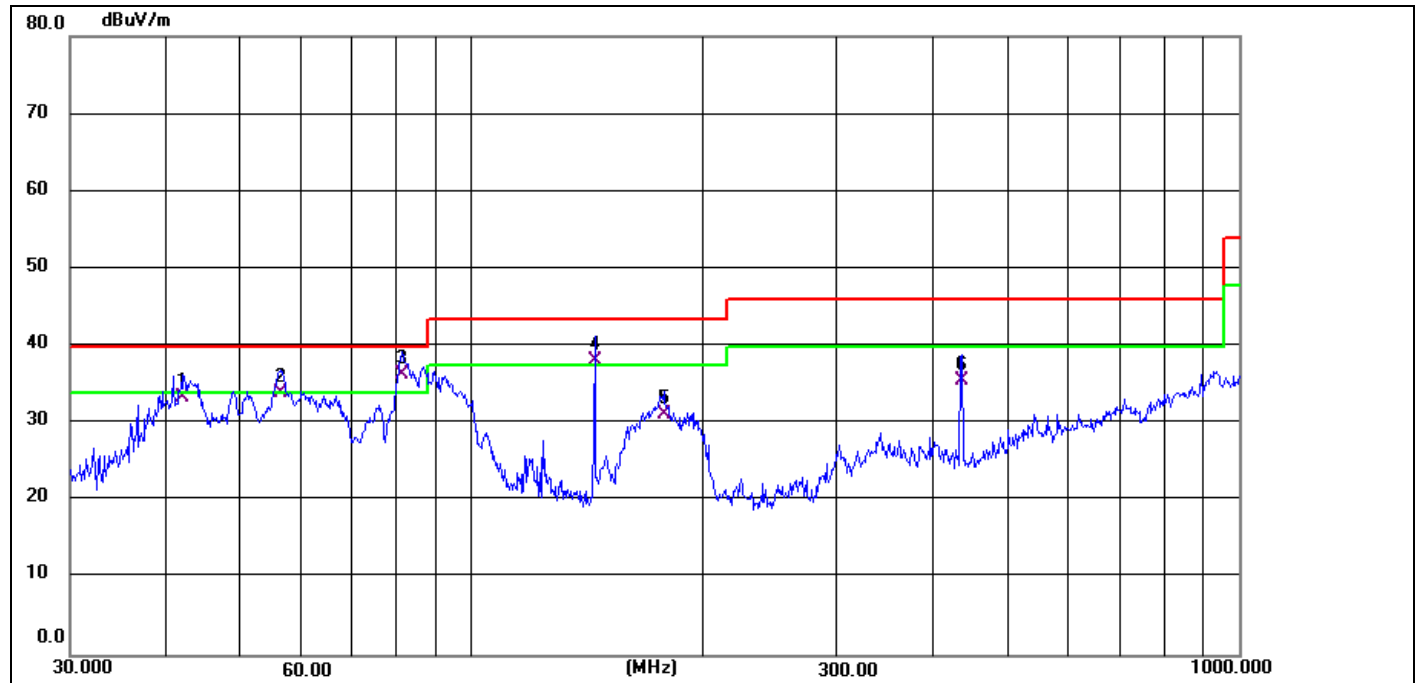
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	0.2535	51.10	19.63	70.73	99.52	-28.79	QP	
2	0.3811	52.96	19.60	72.56	95.98	-23.42	QP	
3	0.6338	44.85	19.55	64.40	71.57	-7.17	QP	
4	0.8897	35.72	19.47	55.19	68.63	-13.44	QP	
5	1.1413	32.30	19.46	51.76	66.48	-14.72	QP	
6	1.9080	28.11	19.53	47.64	69.50	-21.86	QP	

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.

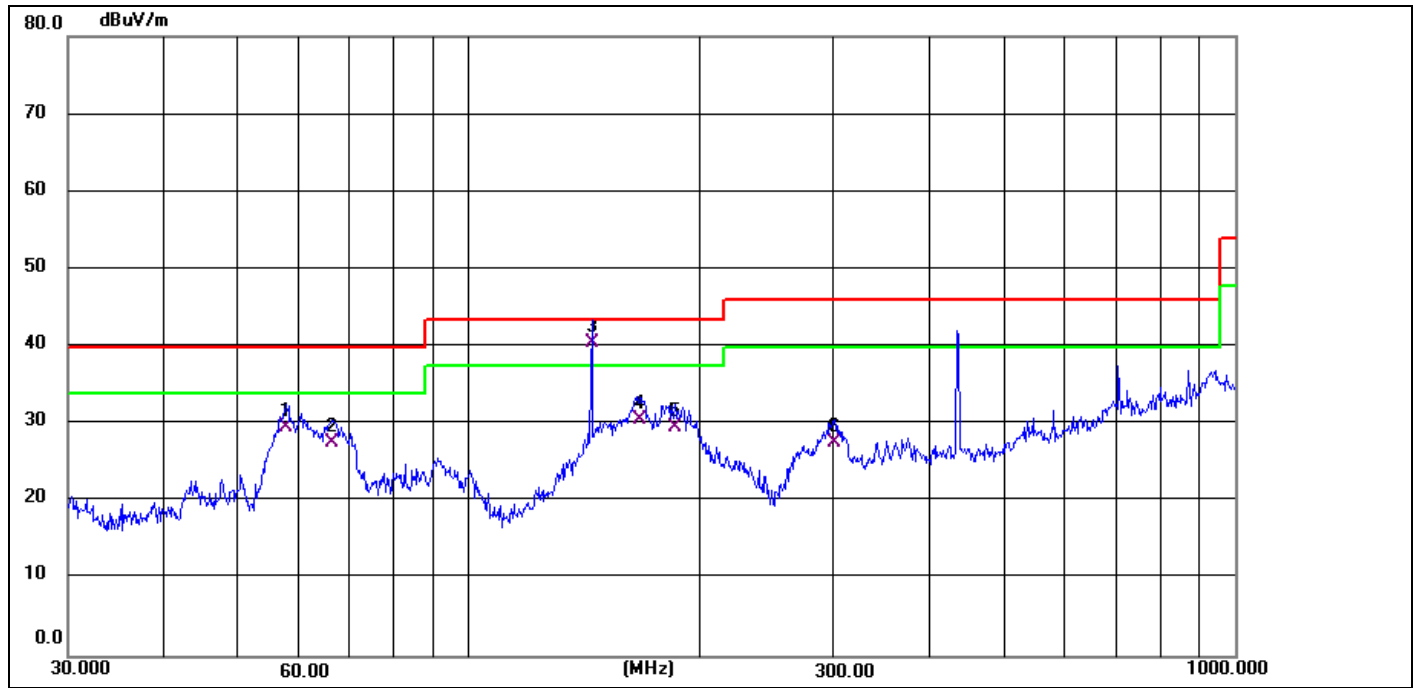
We pretested modes (Wireless Charging 15W) for EUT. The worst test data see follow the table.

Test mode: Wireless Charging 15W



Site:	LAB	Antenna::Vertical	Temperature(C):23.4(C)
Limit:	FCC Part 15 Class B 3m Radiation(QP)	Test Time:	Humidity(%):56.7%
EUT:	PORTABLE POWER STATION	Power Rating:	2023-05-09
M/N.:	P500 Mini	Test Engineer:	AC 120V/60Hz
Mode:	Wireless Charging 15W		sunshine
Note:			

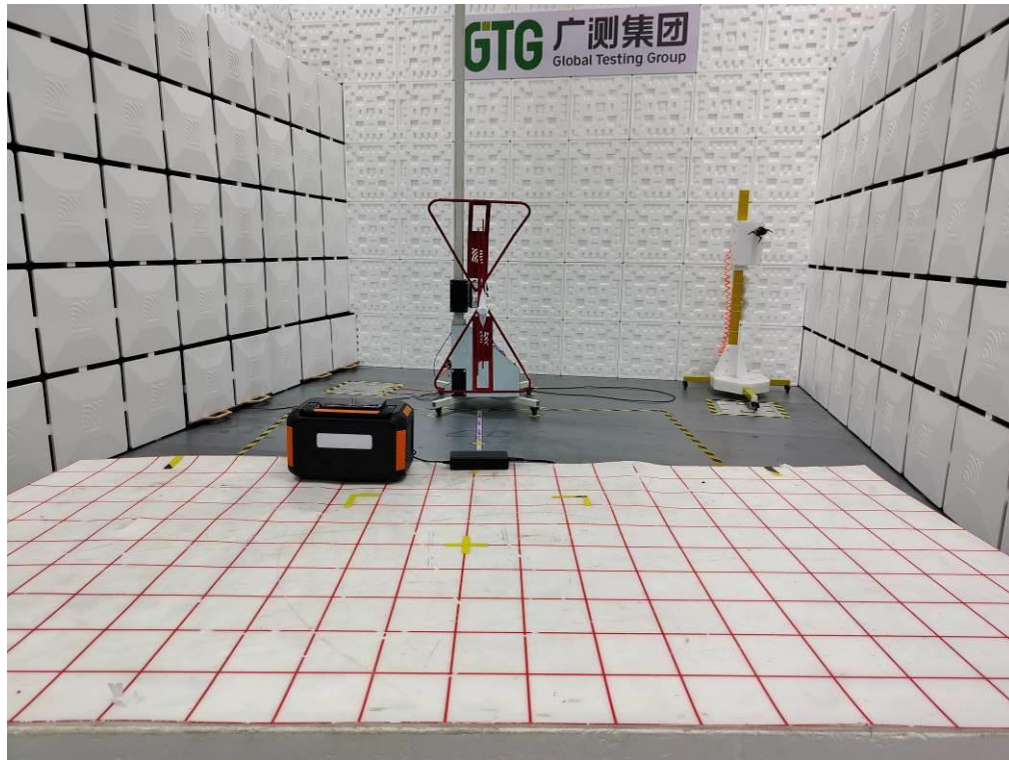
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	42.0066	47.50	-14.17	33.33	40.00	-6.67	QP	
2	56.5930	51.62	-17.67	33.95	40.00	-6.05	QP	
3	81.2117	54.28	-18.04	36.24	40.00	-3.76	QP	
4	144.8417	53.63	-15.42	38.21	43.50	-5.29	QP	
5	178.1327	45.15	-13.93	31.22	43.50	-12.28	QP	
6	435.5898	41.10	-5.46	35.64	46.00	-10.36	QP	



Site:	LAB	Antenna::	Horizontal	Temperature(C):	23.4(C)
Limit:	FCC Part 15 Class B 3m Radiation(QP)	Test Time:	2023-05-09	Humidity(%):	56.7%
EUT:	PORTABLE POWER STATION	Power Rating:	AC 120V/60Hz	Test Engineer:	sunshine
M/N.:	P500 Mini				
Mode:	Wireless Charging 15W				
Note:					

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
1	57.7962	47.00	-17.46	29.54	40.00	-10.46	QP	
2	66.4989	45.32	-17.73	27.59	40.00	-12.41	QP	
3	144.8418	55.94	-15.42	40.52	43.50	-2.98	QP	
4	167.2368	45.18	-14.59	30.59	43.50	-12.91	QP	
5	185.7882	43.96	-14.31	29.65	43.50	-13.85	QP	
6	300.3672	38.13	-10.57	27.56	46.00	-18.44	QP	

6.6 Radiated Measurement Photos



7 20db Bandwidth

7.1 20dB Bandwidth Limit

None: for reporting purposed only.

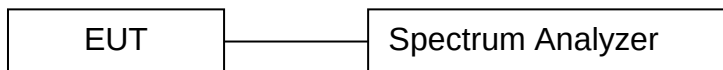
7.2 Test Instruments

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.

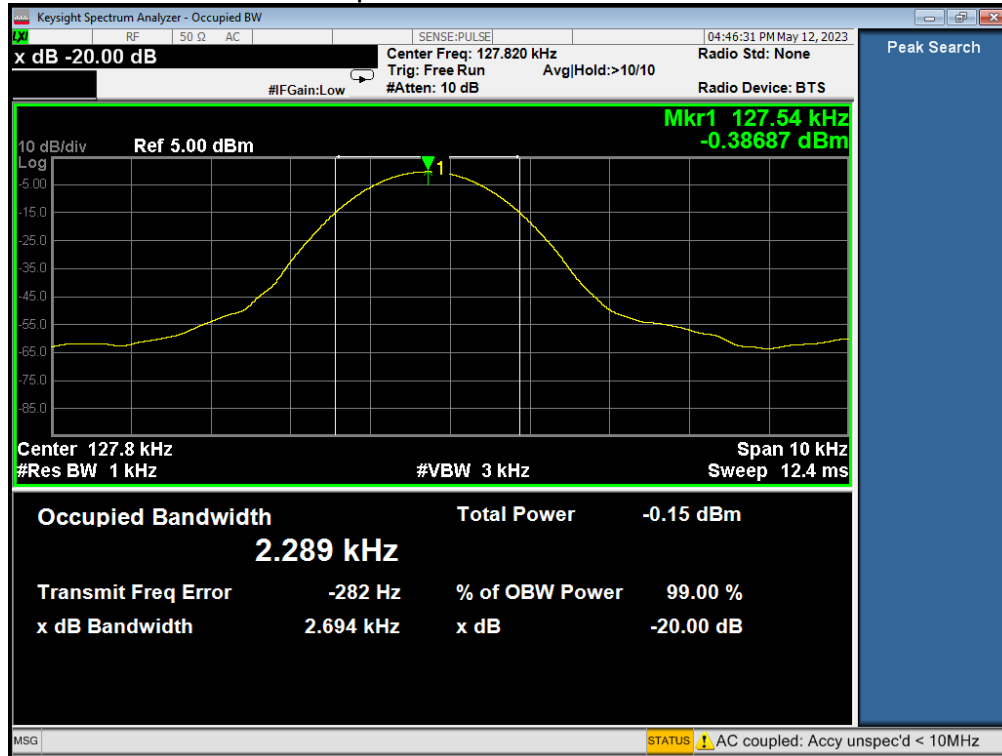
7.4 Test Setup



7.5 Test Result

Charging Mode	Frequency (KHz)	20dB Bandwidth (KHz)	Results
iPhone	127.54	2.694	PASS

20 dB Bandwidth Test plot



Wireless Charging for iPhone

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.

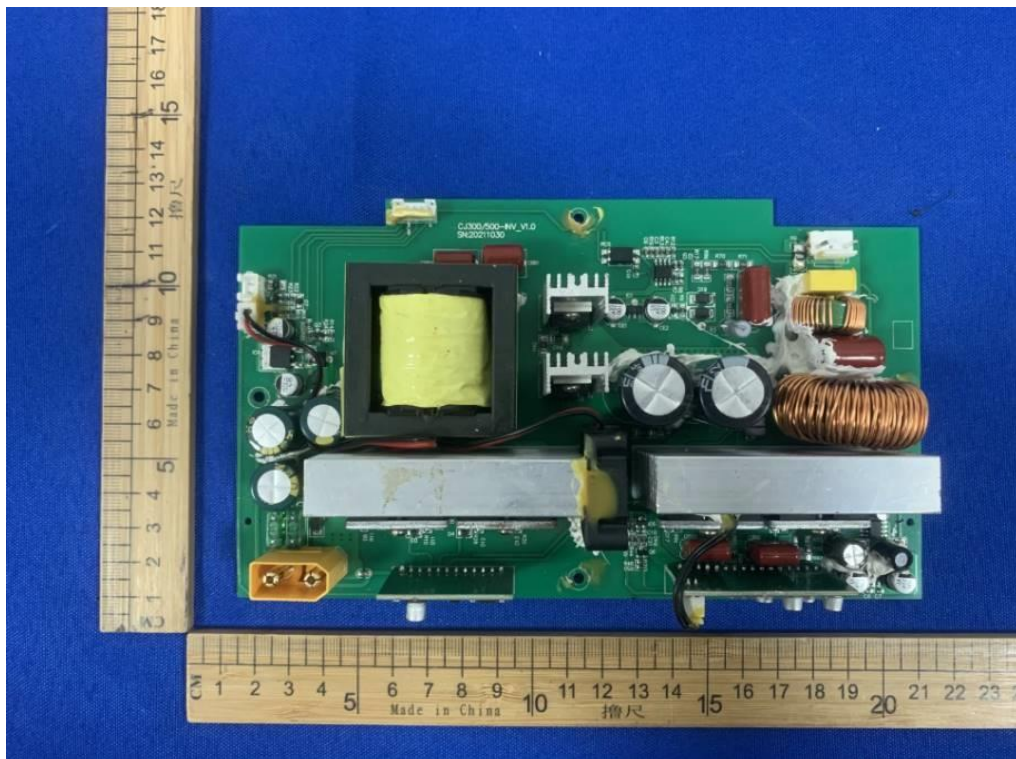
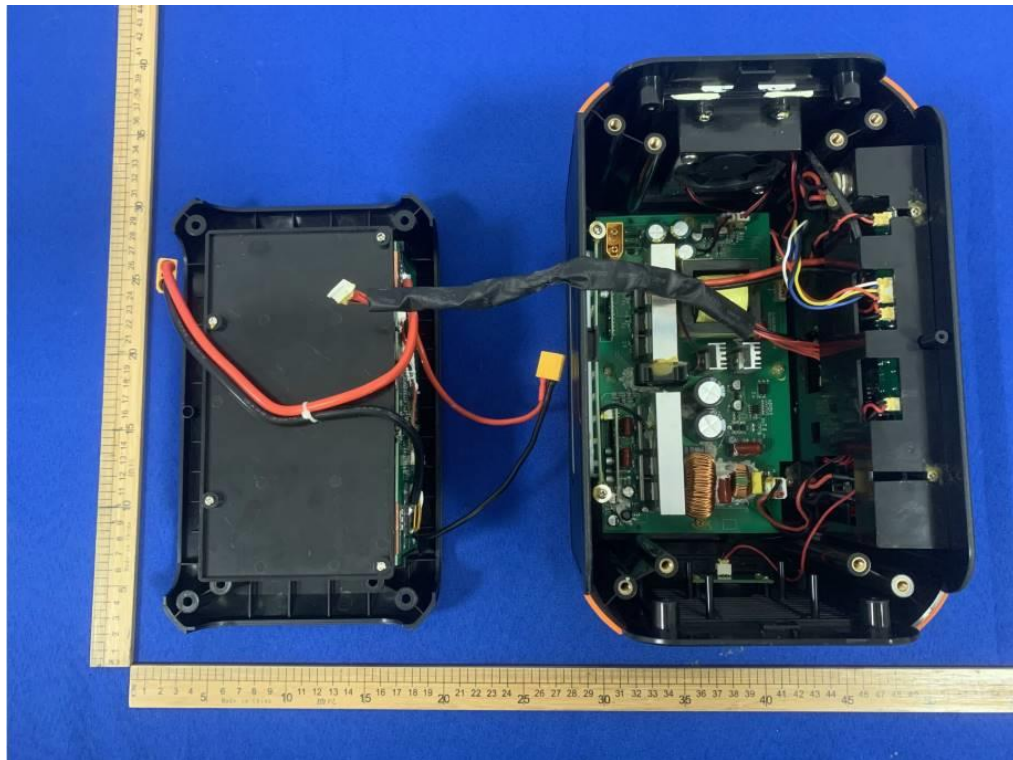
APPENDIX (Photos of EUT)

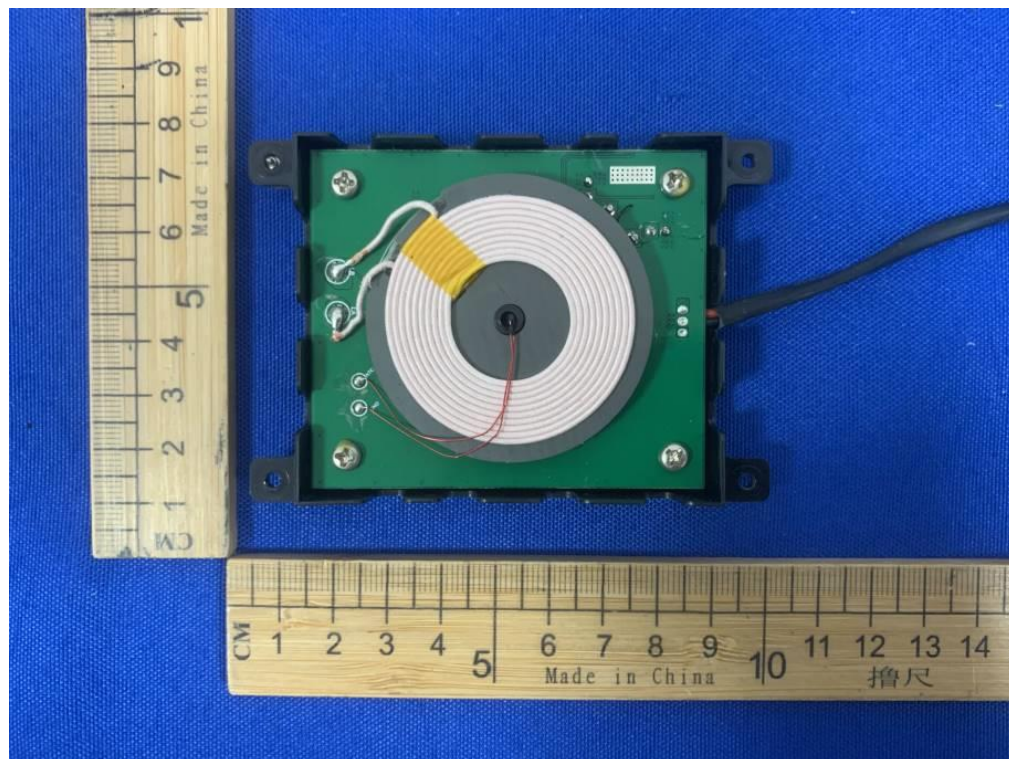
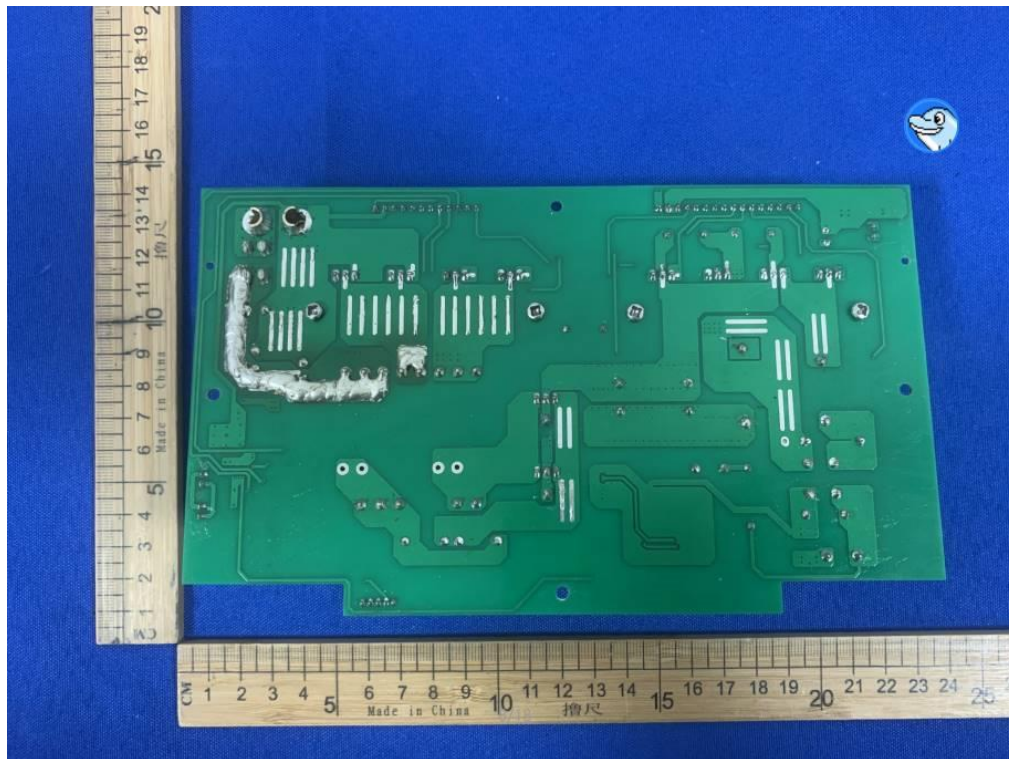
External Photos

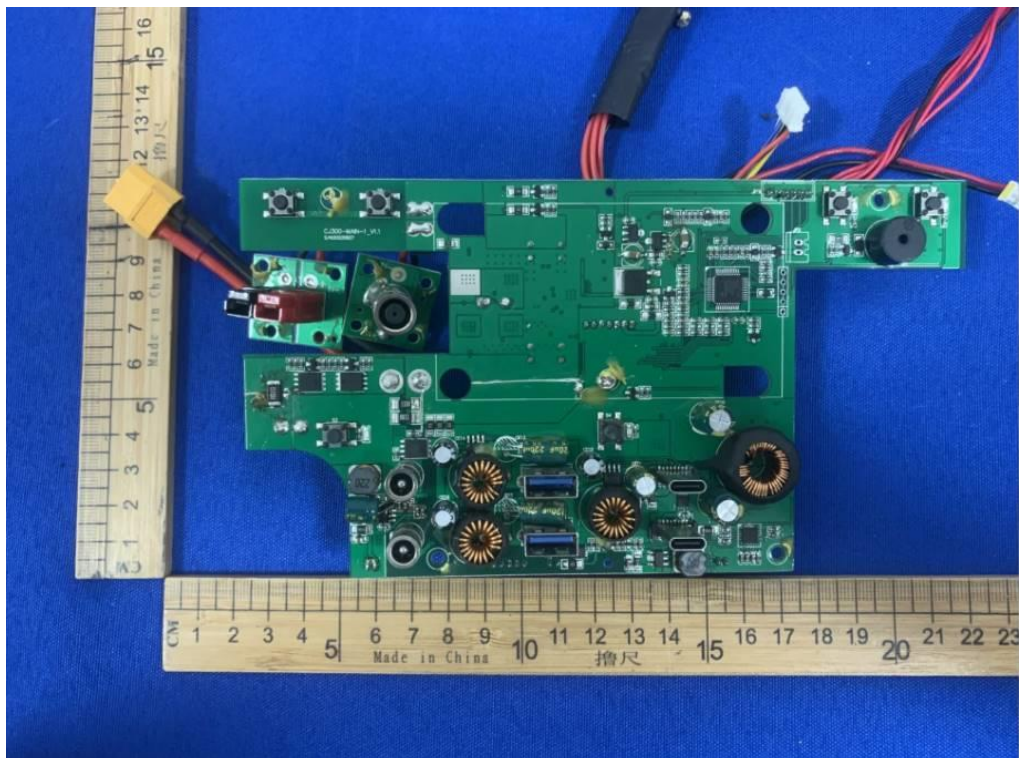
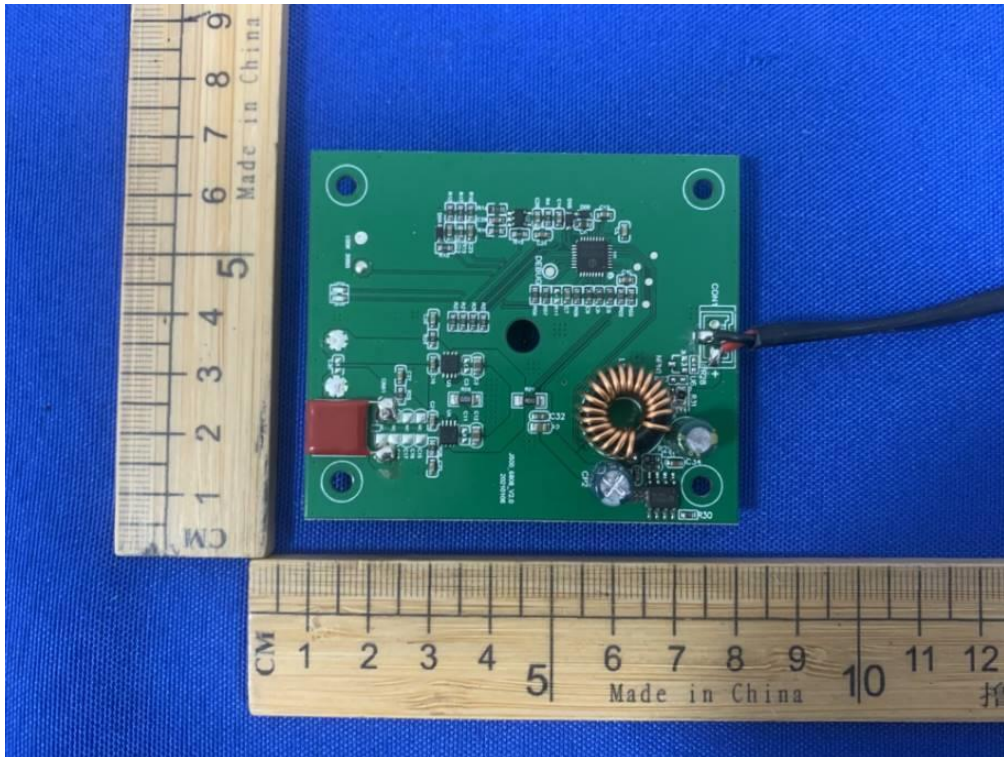


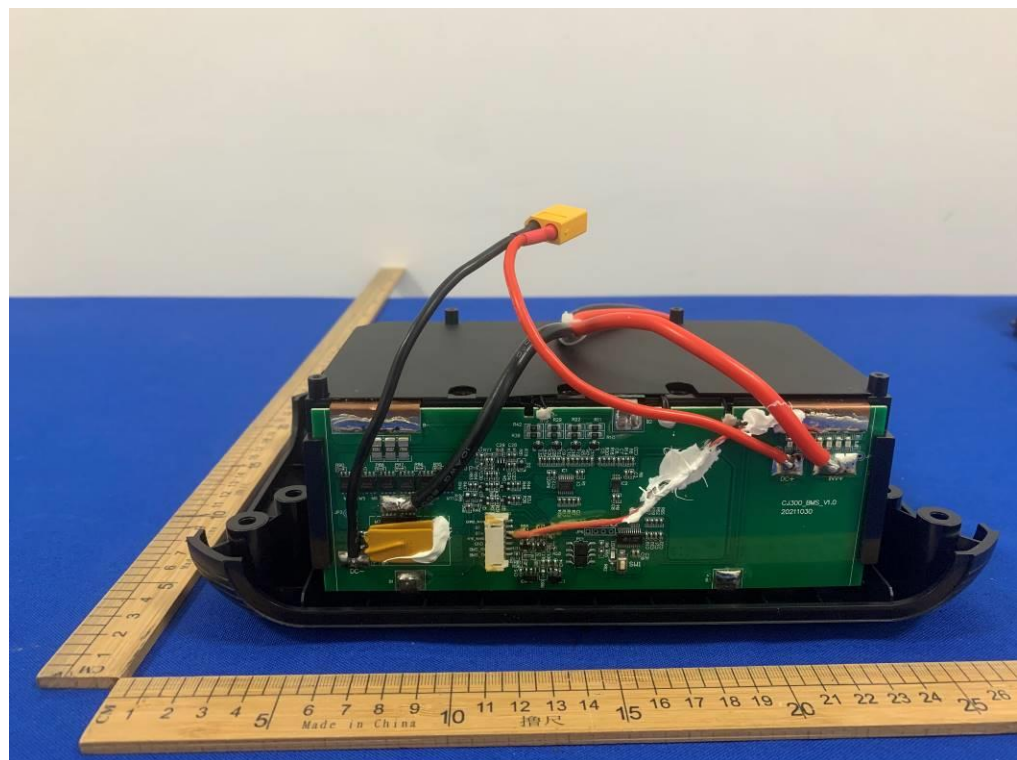
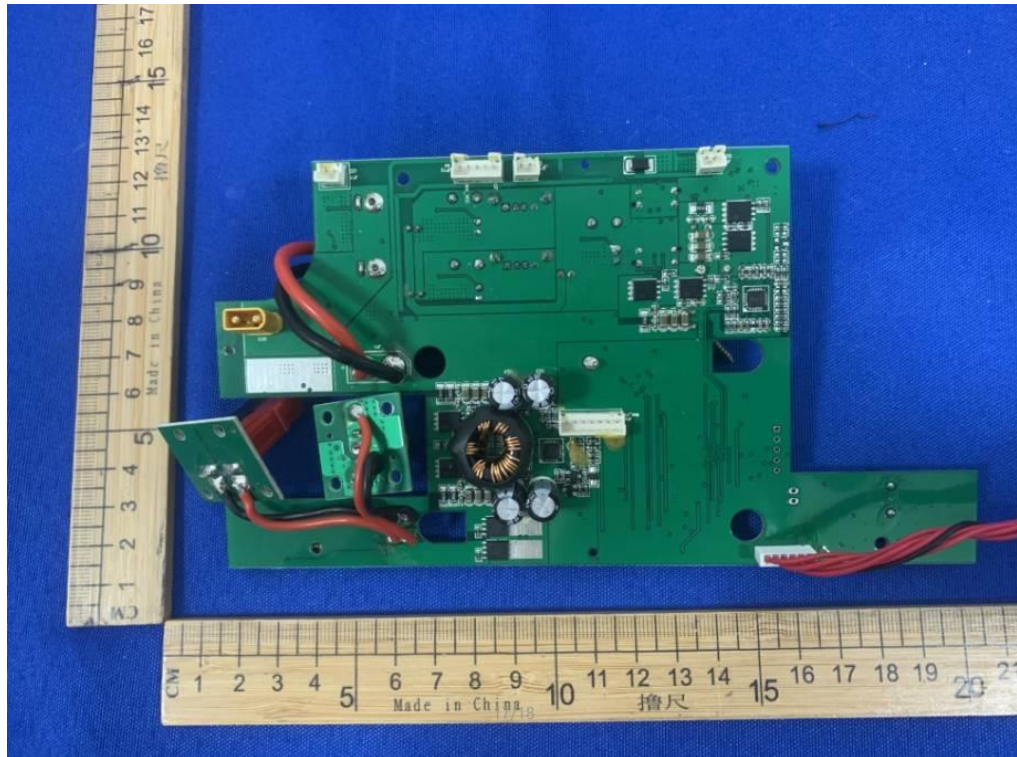


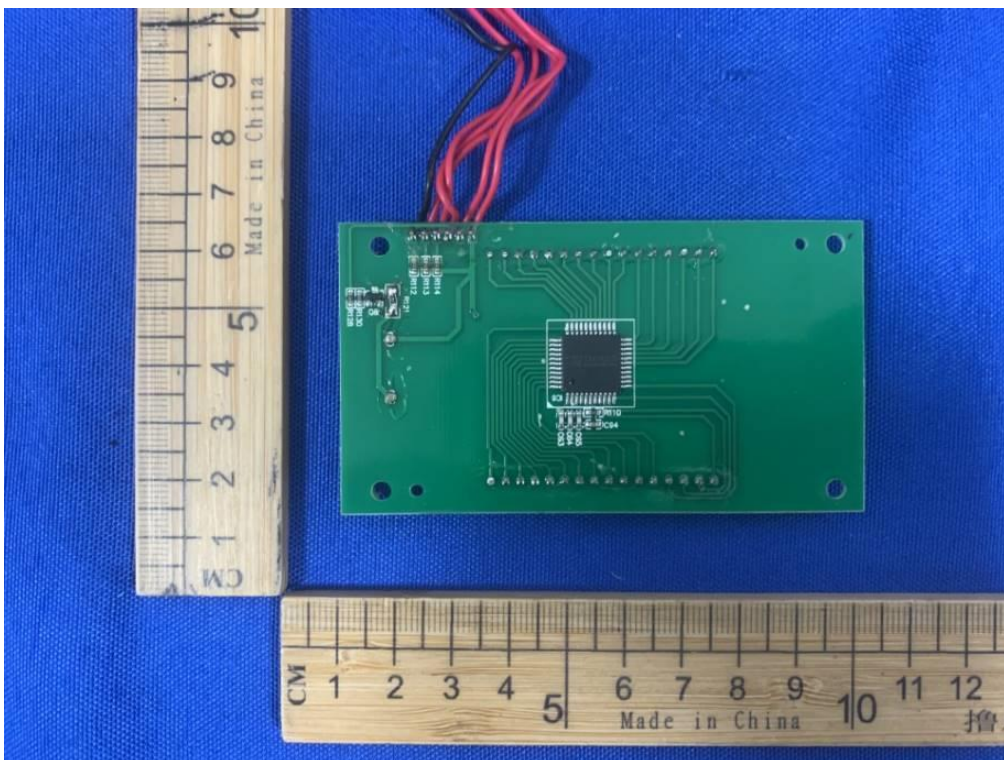
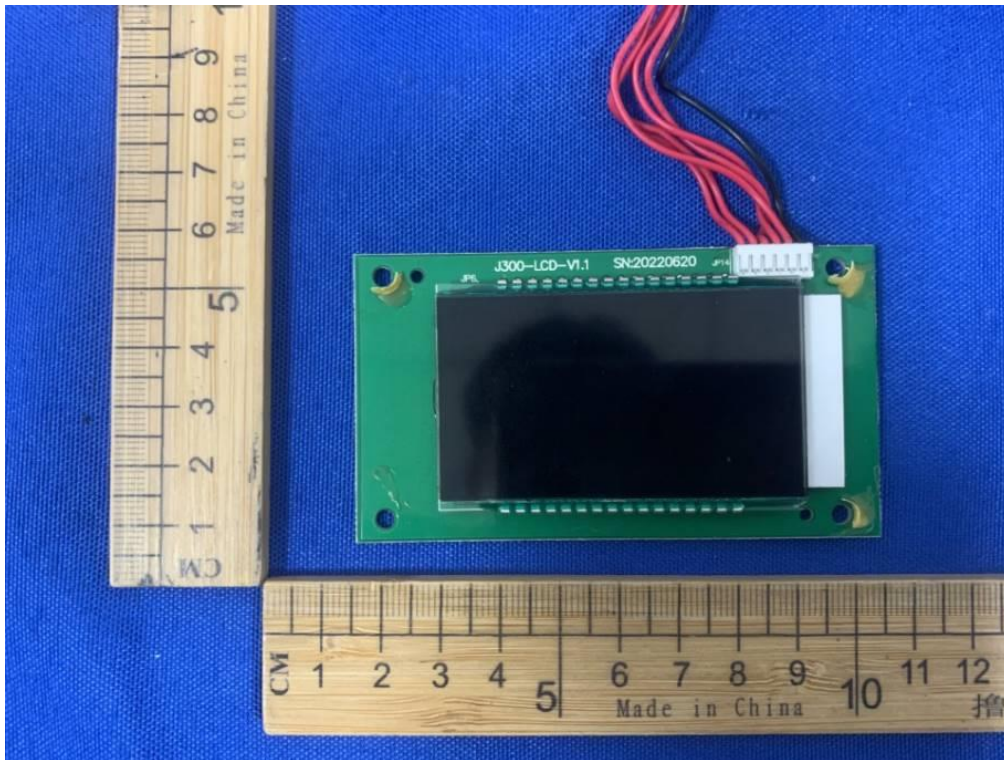
Internal Photos











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