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

OF

Portable Power Station

Model No.: xp2000px

FCC ID: 2BD9Y-XP2000PX

Report No.: E01A23121085F00201

Issue Date: April 23, 2024

Prepared for

Senci Electro mechanical Co.Ltd.

No.200 Tongxinbei Road,Beibei District Chongqing 400701,China

Prepared by

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VERIFICATION OF COMPLIANCE

Applicant:	Senci Electro mechanical Co.Ltd. No.200 Tongxinbei Road,Beibei District Chongqing 400701,China
Manufacturer:	Senci Electro mechanical Co.Ltd. No.200 Tongxinbei Road,Beibei District Chongqing 400701,China
Factory:	Senci Electro mechanical Co.Ltd. No.200 Tongxinbei Road,Beibei District Chongqing 400701,China
Product Description:	Portable Power Station
Brand:	DuroMax
Model Number:	xp2000px

We hereby certify that:

The above equipment was tested by Guangdong GTG 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:

Rock Ning

Project Engineer

Checked By:

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Project Engineer

Approved By:

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Modified Information

Version	Summary	Revision Date	Report No.
Ver.1.0	Original Report	/	E01A23121085F00201

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1 General Information

1.1 Product Description

Characteristics	Description
Product Name	Portable Power Station
Model	xp2000px
Series Model	/
Difference	/
Operation Mode	Wireless Charging
Ratings	Battery Capacity: 51.2V,36Ah, 1843.2Wh. DC/PV Input: 10V-150V 20A max. AC Input: 100V~120Vac 50-60Hz,1200W max. Fast Charge Output x 8: 5V 2.5A, 9V 2A, 12V 2A (24W max.) USB-C 100W Output x4: 5V/9V/12V/15V/20V 5A(100W max.) Total 400W. AC Output x 4: 120V~ 60Hz, total 2000W; AC Output x 1: 30A, 3600W Max(Parallel Box Outputs: 4000 max). Discharging Temperature: 14 to 104°F (-10 to 40°C) Charging Temperature: 32 to 104°F (0 to 40°C) Wireless Charging x 2: 15W
Power Supply	AC 120V/60Hz / DC 150V / Battery 51.2V
Operating Frequency	110-205KHz
Wireless Charging Power	15W(Max)
Modulation Technique	FSK
Antenna Type	Coil Antenna
Software version	V1.0
Hardware version	V1.0
Sample receipt date	March 28, 2024

1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: 2BD9Y-XP2000PX 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 GTG Testing Technology Co., Ltd.
Site Location	:	1-2/F., Building A, and 1/F., Building B, No. 11, Zongbu 2nd Road, Songshan Lake High-Tech Industrial Development Zone, Dongguan, Guangdong, 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 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

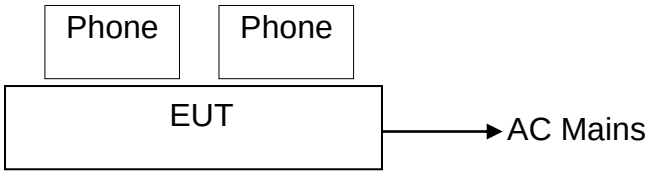


Table 2-1 Equipment Used in Tested System

Item	Equipment	Trade Mark	Model No.	FCC ID	Note
1.	Portable Power Station	/	xp2000px	2BD9Y-XP2000PX	EUT
2.	Mobile phone	SAMSUNG	Galaxy Note 10	N/A	***Support Equipment***
3.	Mobile phone	Xiaomi	Xiaomi 10	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
20dB Bandwidth	±9.2ppm
Conducted Emissions Test	±2.0dB
Radiated Emission Test	±2.0dB
Temperature	±0.5℃
Humidity	±3%

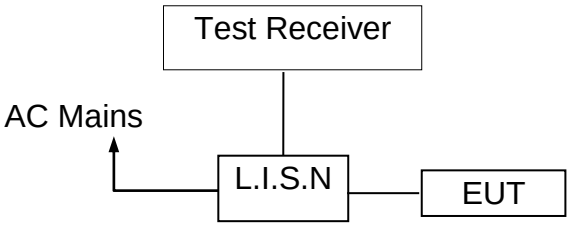
Remark: The coverage Factor (k=2), and measurement Uncertainty for a level of Confidence of 95%

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

Test Equipment of Conducted emissions (AC mains power ports)					
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Last Cal.**	**Due Date**
LISN	ROHDE&SCHWARZ	ENV216	101413	2023-09-18	2024-09-18
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	101358	2023-05-09	2024-05-09
Shielded Room A-1	Chengyu	8m*4m*3.3m	N/A	2022-11-21	2025-11-21
Test Software	Farad	EZ-EMC 1.1.4.2	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

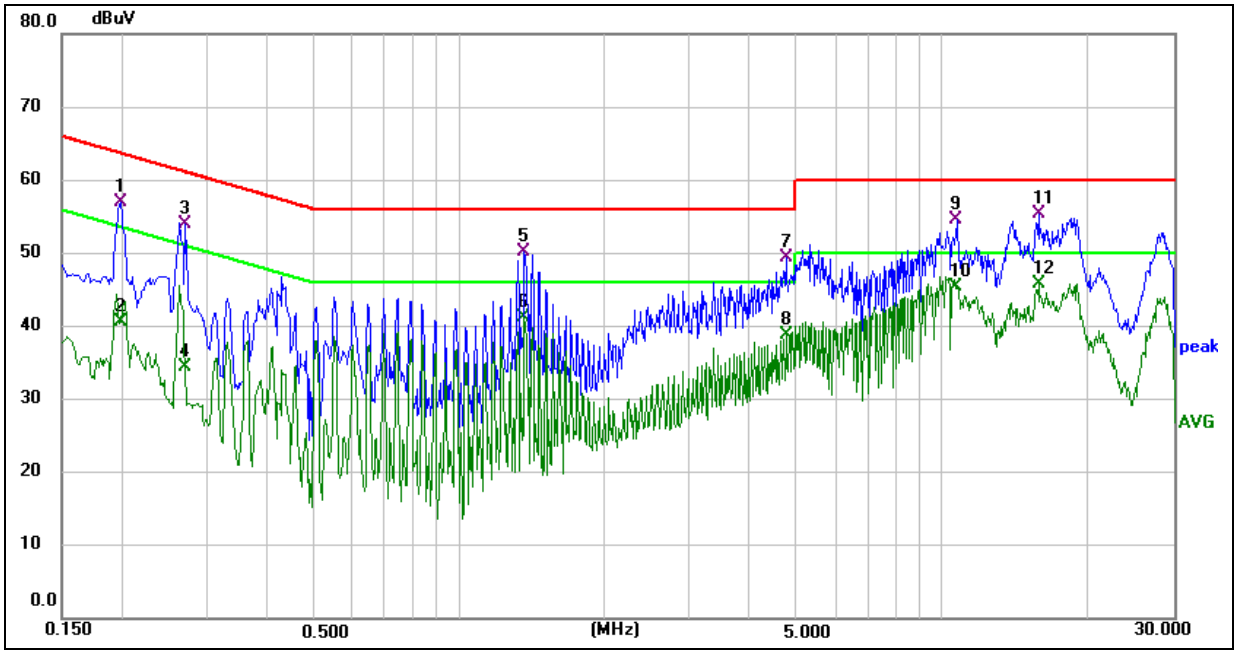
Note: 1. The lower limit shall apply at the transition frequencies

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

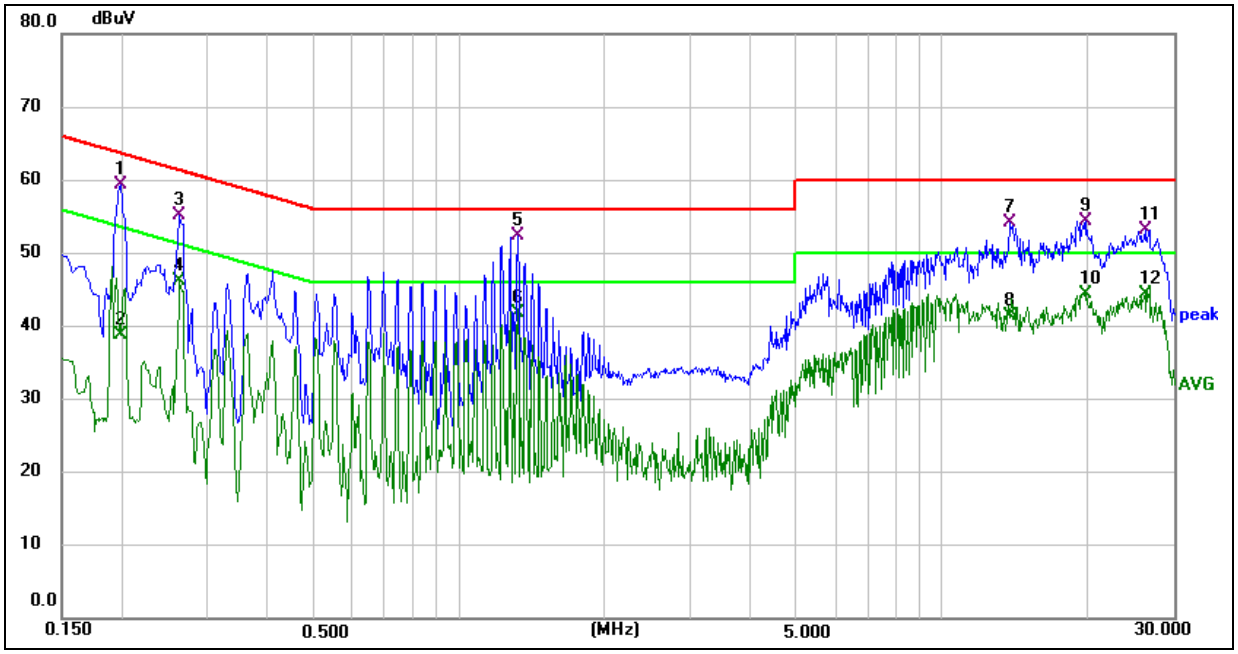
Operation Mode:	TX	Test Date :	2024/03/20
Frequency Range:	0.15MHz~30MHz	Temperature :	24.1℃
Test Result:	PASS	Humidity :	52 %RH
Test By:	Big		

We pretested modes (Wireless Charging(15W x 2), Wireless Charging (10W x 2), Wireless Charging(5W x 2)) for EUT. The worst test data see follow the table.



Phase:L1	Mode: Wireless Charging(15W x 2)

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1	0.1980	46.87	10.10	56.97	63.69	-6.72	QP	
2	0.1980	30.48	10.10	40.58	53.69	-13.11	AVG	
3	0.2700	43.07	10.99	54.06	61.12	-7.06	QP	
4	0.2700	23.44	10.99	34.43	51.12	-16.69	AVG	
5	1.3660	40.16	9.93	50.09	56.00	-5.91	QP	
6	1.3660	31.32	9.93	41.25	46.00	-4.75	AVG	
7	4.7420	38.96	10.45	49.41	56.00	-6.59	QP	
8	4.7420	28.41	10.45	38.86	46.00	-7.14	AVG	
9	10.7299	44.27	10.39	54.66	60.00	-5.34	QP	
10	10.7299	34.97	10.39	45.36	50.00	-4.64	AVG	
11	15.7380	44.88	10.45	55.33	60.00	-4.67	QP	
12*	15.7380	35.33	10.45	45.78	50.00	-4.22	AVG	



Phase:N	Mode: Wireless Charging(15W x 2)

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1	0.1980	48.85	10.48	59.33	63.69	-4.36	QP	
2	0.1980	28.39	10.48	38.87	53.69	-14.82	AVG	
3	0.2620	44.71	10.47	55.18	61.37	-6.19	QP	
4	0.2620	35.69	10.47	46.16	51.37	-5.21	AVG	
5 *	1.3180	42.48	9.98	52.46	56.00	-3.54	QP	
6	1.3180	31.83	9.98	41.81	46.00	-4.19	AVG	
7	13.6980	43.68	10.53	54.21	60.00	-5.79	QP	
8	13.6980	30.87	10.53	41.40	50.00	-8.60	AVG	
9	19.7460	43.88	10.56	54.44	60.00	-5.56	QP	
10	19.7460	33.78	10.56	44.34	50.00	-5.66	AVG	
11	26.1860	42.69	10.53	53.22	60.00	-6.78	QP	
12	26.1860	33.87	10.53	44.40	50.00	-5.60	AVG	

5.6 Conducted Measurement Photo

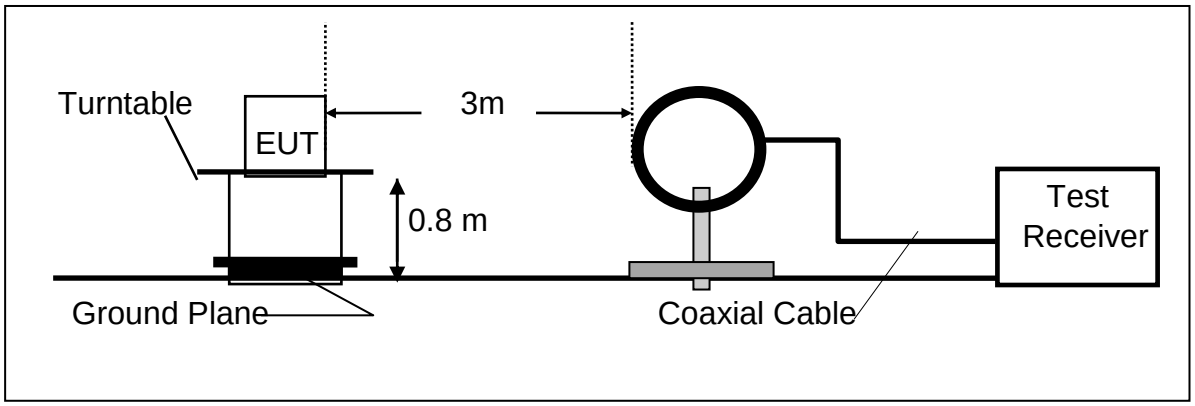
6 Radiated Emission Test

6.1 Measurement Procedure

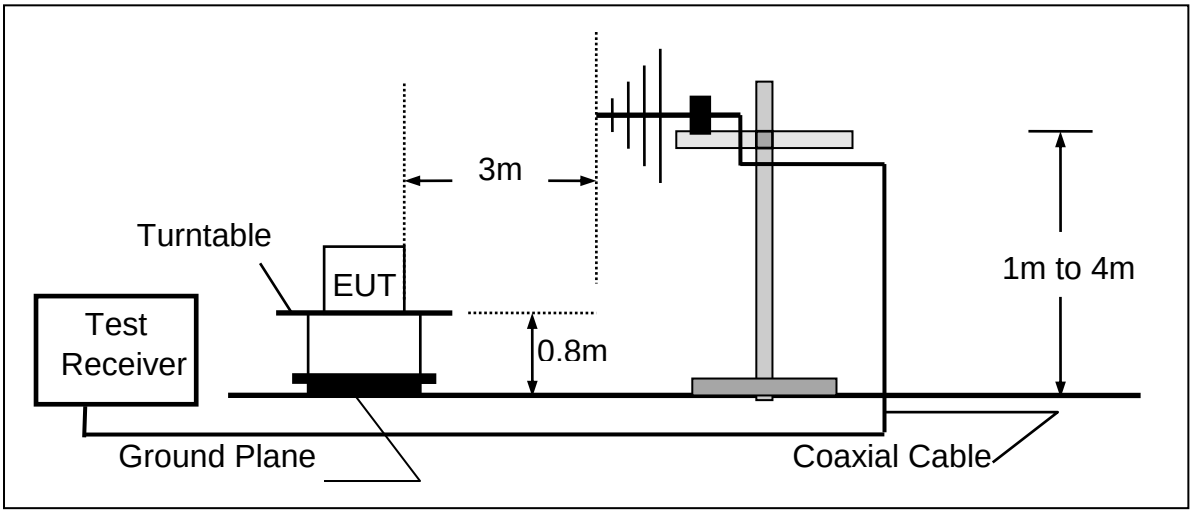
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above 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: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	xp2000px / F(KHz)	300m	10000 * xp2000px/F(KHz)	20log xp2000px/F(KHz) + 80
0.490 – 1.705	xp2000px0 / F(KHz)	30m	100 * xp2000px0/F(KHz)	20log xp2000px0/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

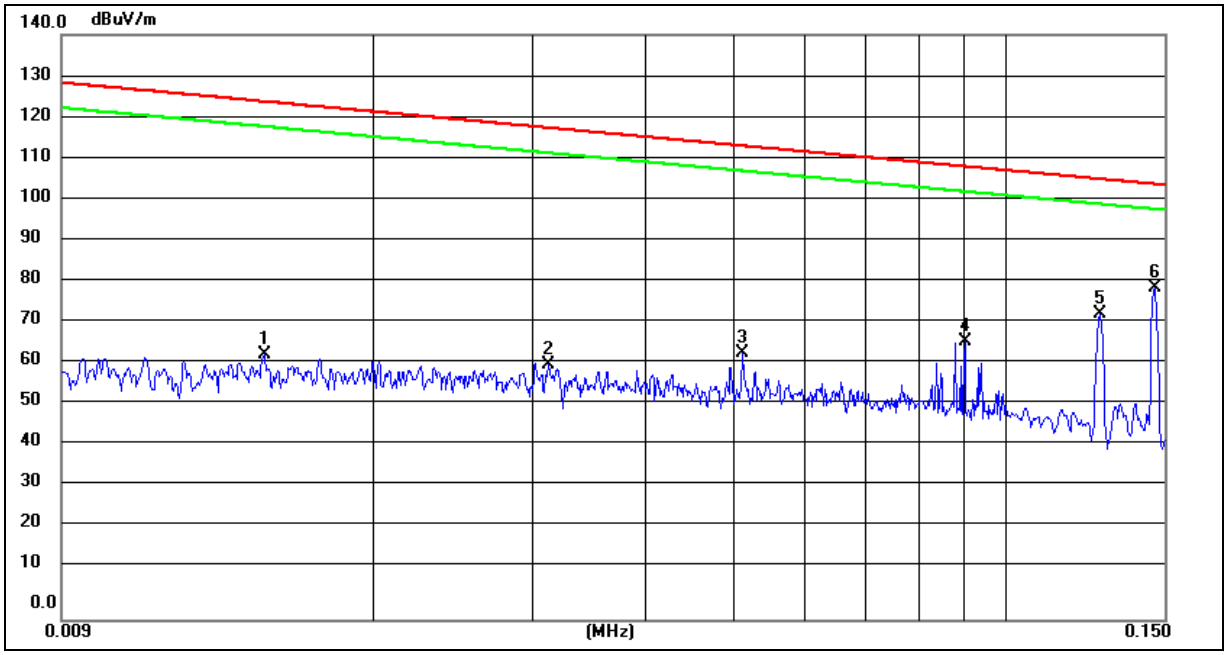
15.205 Restricted bands of operation

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.

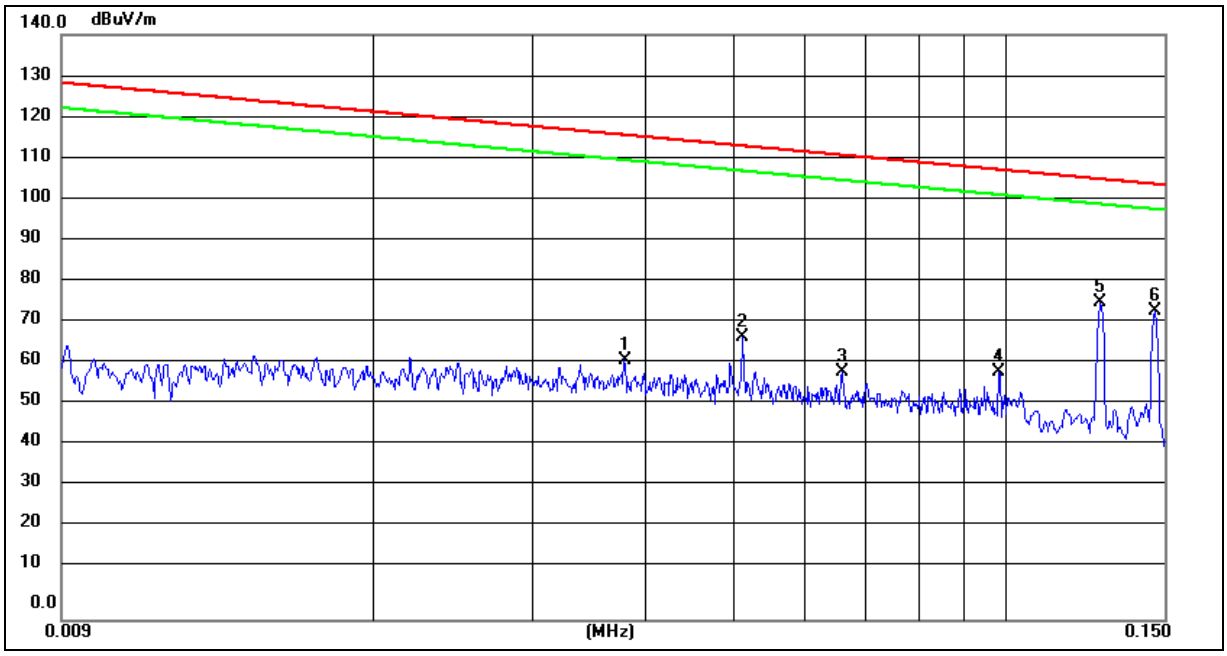
6.5 Measurement Result

We pretested modes (Wireless Charging(15W x 2), Wireless Charging (10W x 2), Wireless Charging(5W x 2)) for EUT. The worst mode (Wireless Charging(15W x 2)) test data see follow the table.



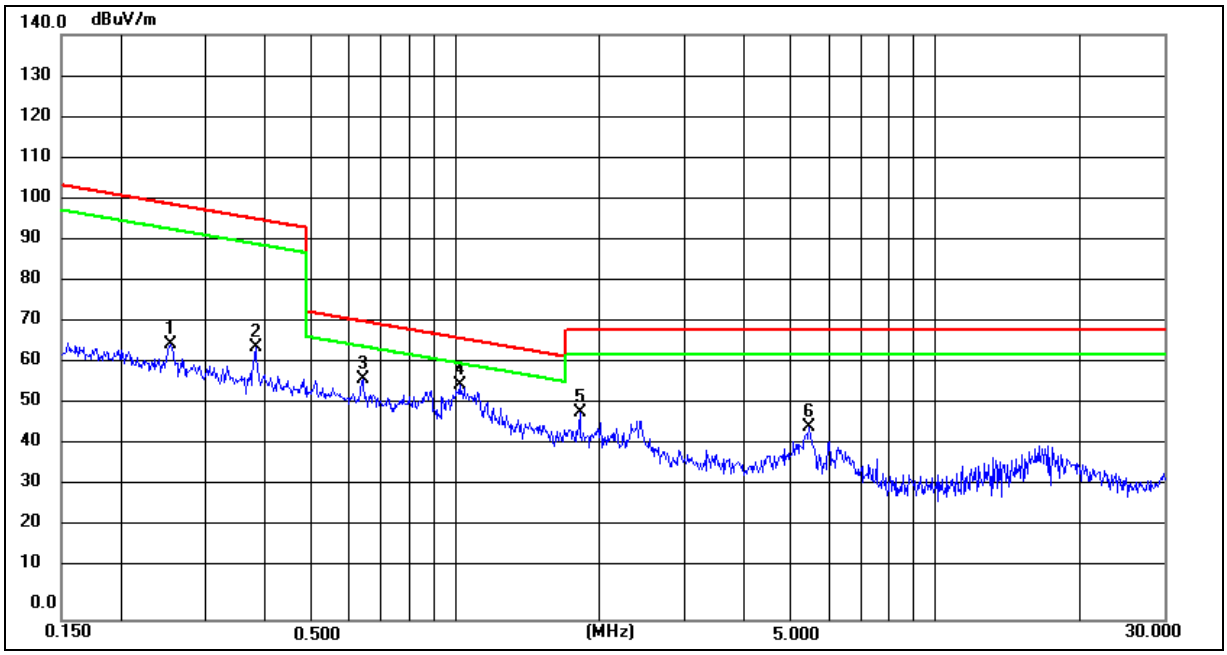
Site:		**Antenna: Coaxial**	**Temperature(C):24.5(C)**
Limit:	**FCC Part 15.209 3m Radiation(QP)9K-30MH**		**Humidity(%):51.7%**
EUT:	**Portable Power Station**	**Test Time:**	**2024/03/29**
M/N.:	**xp2000px**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 15W x 2**	**Test Engineer:**	**Big**
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Comment
1	0.0151	43.09	20.36	63.45	124.01	-60.56	peak	
2	0.0311	41.06	20.13	61.19	117.74	-56.55	peak	
3	0.0512	43.89	19.92	63.81	113.41	-49.60	peak	
4	0.0901	47.00	19.74	66.74	108.50	-41.76	peak	
5	0.1271	53.55	19.63	73.18	105.51	-32.33	peak	
6 *	0.1462	60.01	19.64	79.65	104.30	-24.65	peak	



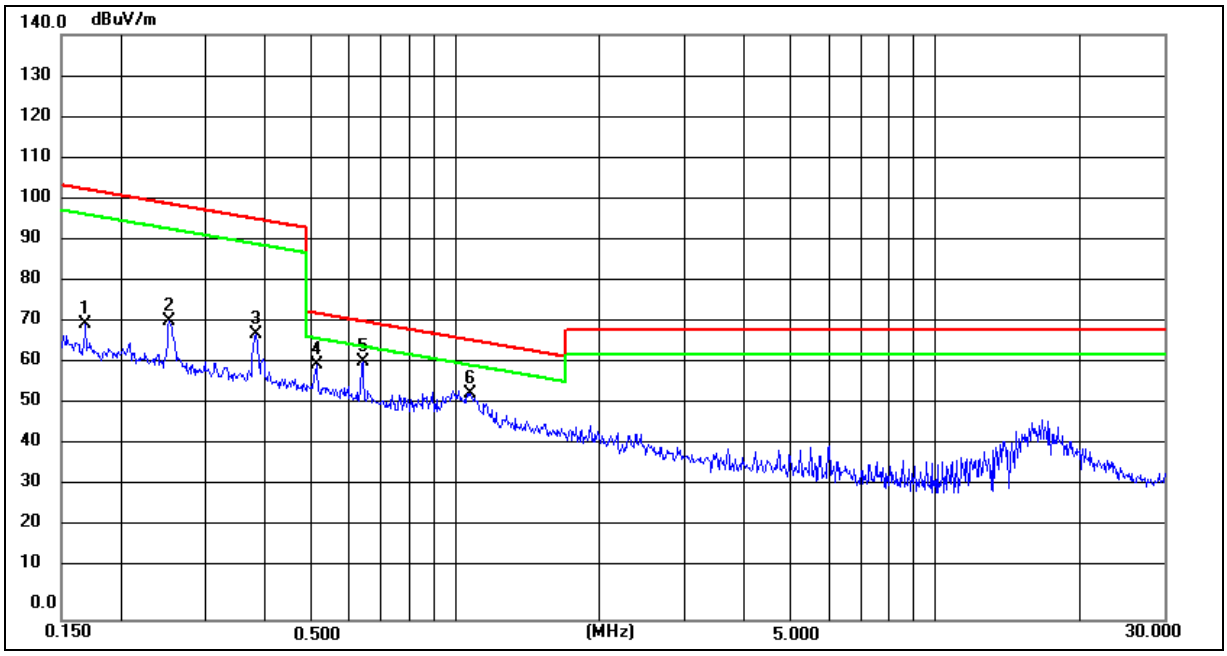
Site:		**Antenna: Coplaner**	**Temperature(C):24.5(C)**
Limit:	**FCC Part 15.209 3m Radiation(QP)9K-30MH**		**Humidity(%):51.7%**
EUT:	**Portable Power Station**	**Test Time:**	**2024/03/29**
M/N.:	**xp2000px**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 15W x 2**	**Test Engineer:**	**Big**
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Comment
1	0.0378	42.09	20.06	62.15	116.04	-53.89	peak	
2	0.0511	47.93	19.92	67.85	113.42	-45.57	peak	
3	0.0660	39.86	19.70	59.56	111.20	-51.64	peak	
4	0.0984	39.64	19.66	59.30	107.74	-48.44	peak	
5 *	0.1274	56.30	19.63	75.93	105.49	-29.56	peak	
6	0.1462	54.47	19.64	74.11	104.30	-30.19	peak	



Site:		**Antenna: Coaxial**	**Temperature(C):24.5(C)**
Limit:	**FCC Part 15.209 3m Radiation(QP)9K-30MH**		**Humidity(%):51.7%**
EUT:	**Portable Power Station**	**Test Time:**	**2024/03/29**
M/N.:	**xp2000px**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 15W x 2**	**Test Engineer:**	**Big**
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Comment
1	0.2535	46.29	19.63	65.92	99.52	-33.60	peak	
2	0.3811	45.61	19.60	65.21	95.98	-30.77	peak	
3	0.6372	38.21	19.55	57.76	71.52	-13.76	peak	
4 *	1.0157	36.99	19.44	56.43	67.49	-11.06	peak	
5	1.8096	30.10	19.52	49.62	69.50	-19.88	peak	
6	5.4474	26.32	19.77	46.09	69.50	-23.41	peak	



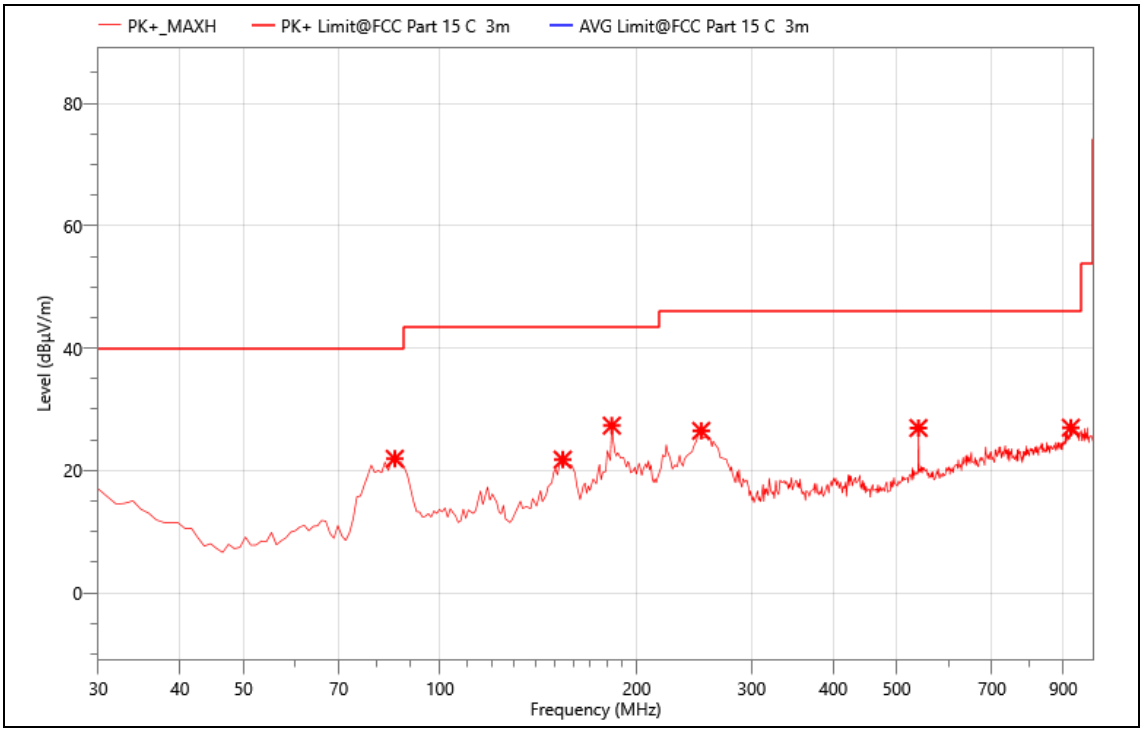
Site:		**Antenna: Coplaner**	**Temperature(C):24.5(C)**
Limit:	**FCC Part 15.209 3m Radiation(QP)9K-30MH**		**Humidity(%):51.7%**
EUT:	**Portable Power Station**	**Test Time:**	**2024/03/29**
M/N.:	**xp2000px**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 15W x 2**	**Test Engineer:**	**Big**
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Comment
1	0.1685	51.09	19.64	70.73	103.07	-32.34	peak	
2	0.2521	51.96	19.63	71.59	99.57	-27.98	peak	
3	0.3832	48.81	19.60	68.41	95.93	-27.52	peak	
4	0.5101	41.67	19.59	61.26	73.45	-12.19	peak	
5 *	0.6372	42.36	19.55	61.91	71.52	-9.61	peak	
6	1.0710	34.83	19.44	54.27	67.03	-12.76	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 x 2), Wireless Charging (10W x 2), Wireless Charging(5W x 2)) for EUT. The worst test data (Wireless Charging(15W x 2)) see follow the table.

EUT :	Portable Power Station
MN:	xp2000px
Mode:	Wireless Charging(15W x 2)
Power:	AC 120V/60Hz
Note:	/
TE:	Big
Date	2024/04/02
T/A/P	24.9℃/52%/101Kpa

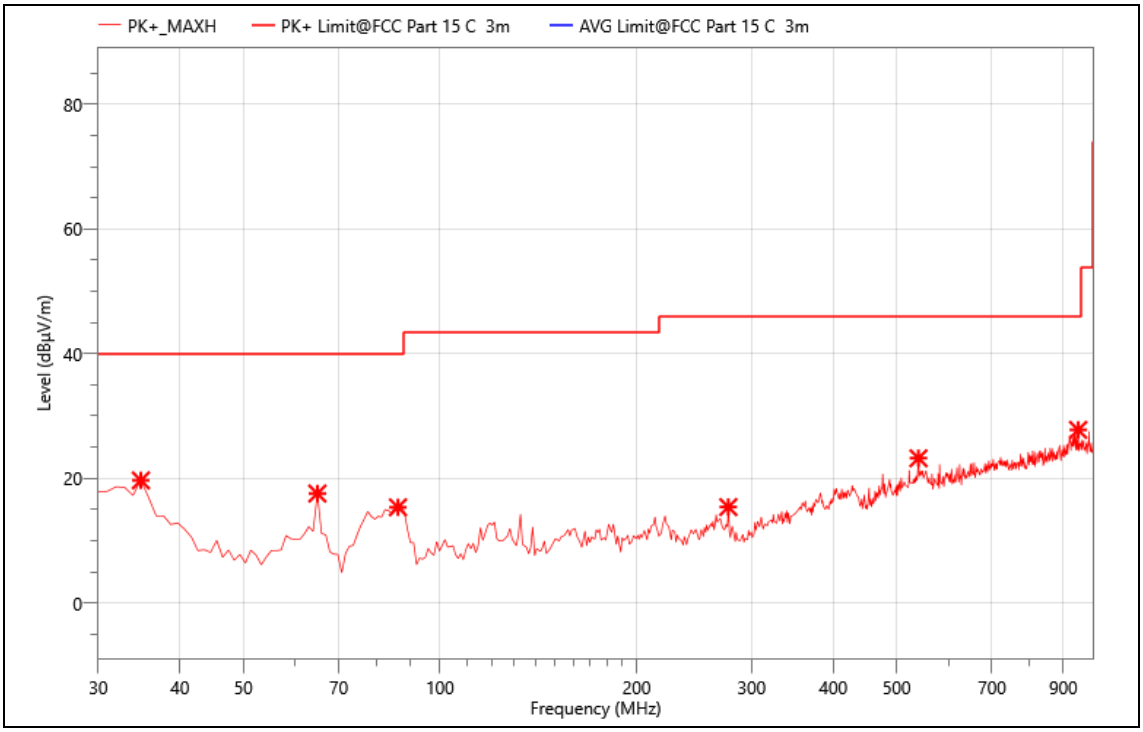


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	85.290	47.56	-25.65	21.91	40.00	18.09	PK+	H
2	154.160	43.46	-21.68	21.78	43.50	21.72	PK+	H
3	183.260	49.64	-22.31	27.33	43.50	16.17	PK+	H
4	251.160	45.49	-19.01	26.48	46.00	19.52	PK+	H
5	540.220	37.19	-10.25	26.94	46.00	19.06	PK+	H
6	924.340	30.26	-3.27	26.99	46.00	19.01	PK+	H

Note：[Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

EUT :	Portable Power Station
MN:	xp2000px
Mode:	Wireless Charging(15W x 2)
Power:	AC 120V/60Hz
Note:	/
TE:	Big
Date	2024/04/02
T/A/P	24.9℃/52%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	34.850	36.82	-17.14	19.68	40.00	20.32	PK+	V
2	64.920	42.39	-24.82	17.57	40.00	22.43	PK+	V
3	86.260	40.99	-25.63	15.36	40.00	24.64	PK+	V
4	276.380	34.40	-19	15.40	46.00	30.60	PK+	V
5	540.220	33.48	-10.25	23.23	46.00	22.77	PK+	V
6	948.590	31.20	-3.42	27.78	46.00	18.22	PK+	V

Note：[Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

6.6 Radiated Measurement Photos

9kHz-30MHz

30MHz-1GHz

7 20db Bandwidth

7.1 20dB Bandwidth Limit

None: for reporting purposed only.

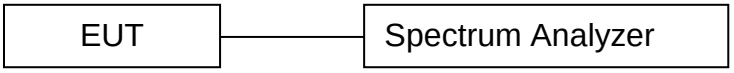
7.2 Test Instruments

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.

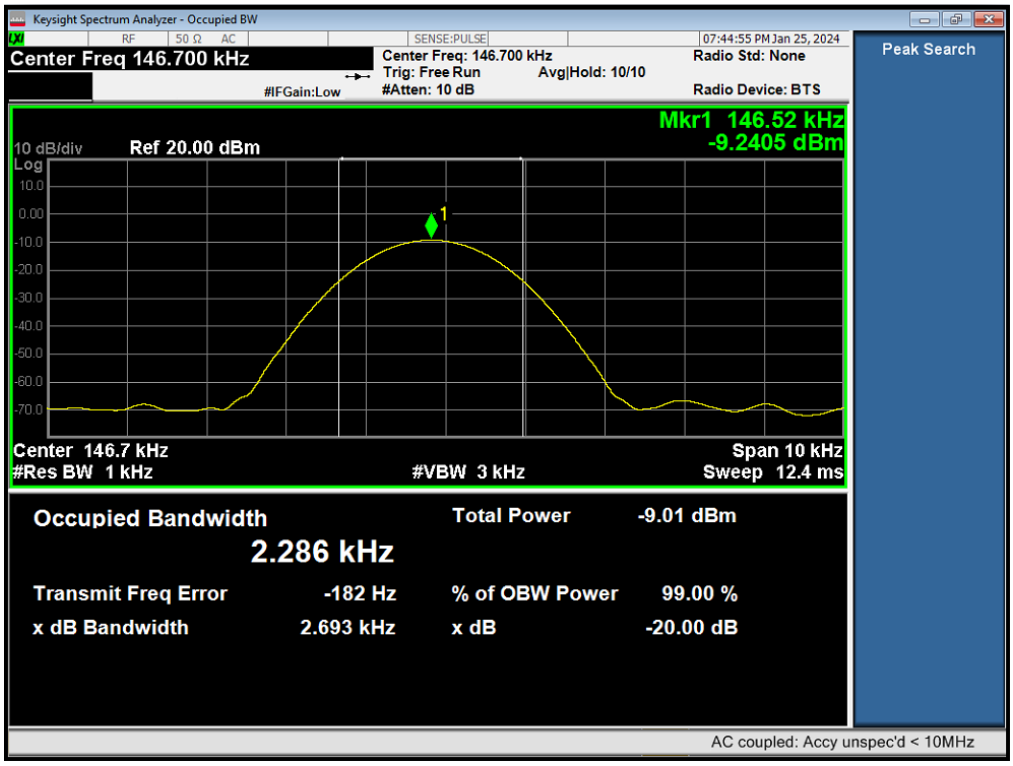
7.4 Test Setup



7.5 Test Result

Frequency (KHz)	20dB Bandwidth (KHz)	Results
146.7	2.693	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

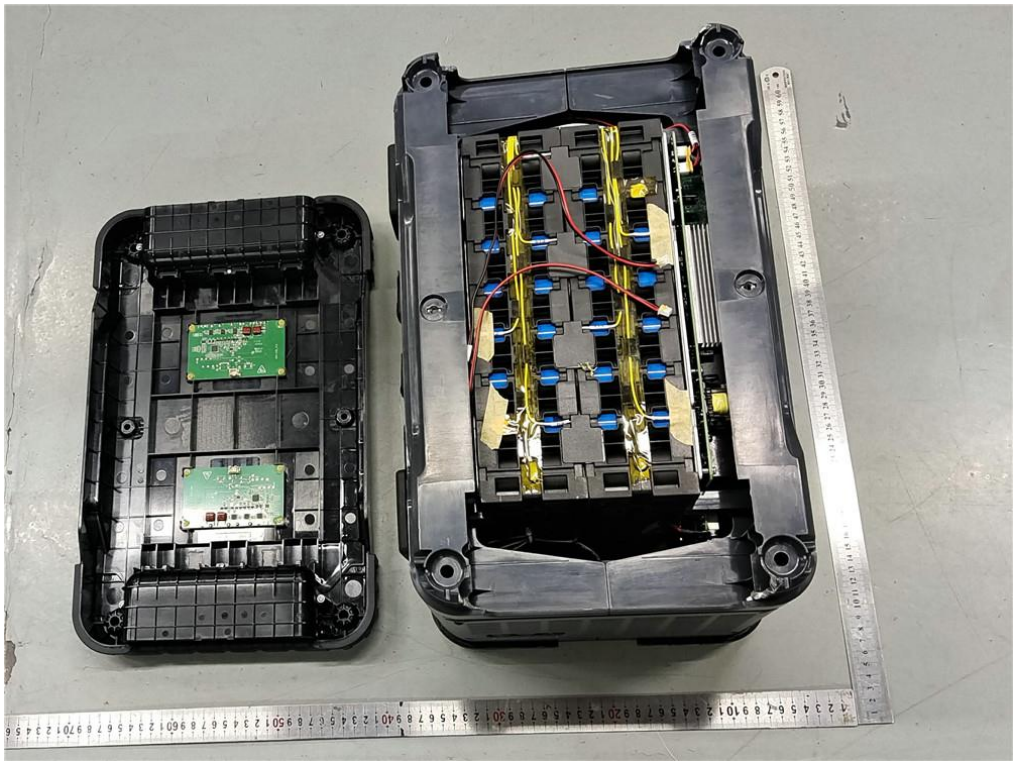
The EUT’s antenna, permanent attached antenna, used an Induction coil and integrated on PCB, The antenna’s gain meets the requirement.

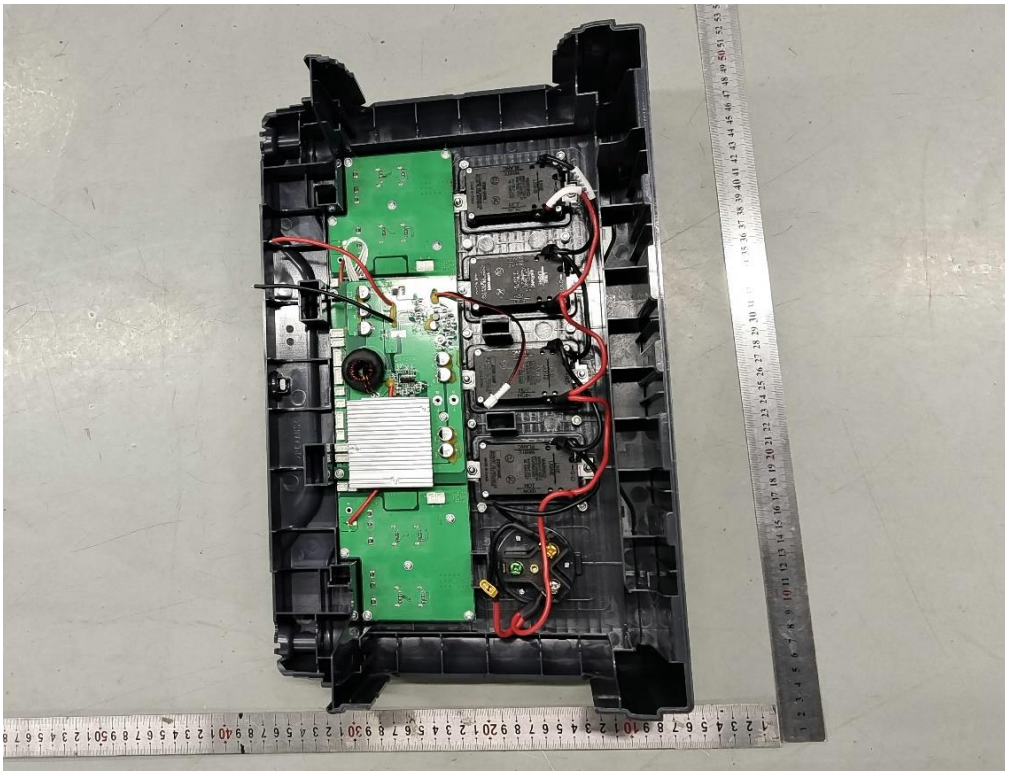
9 Photos of EUT

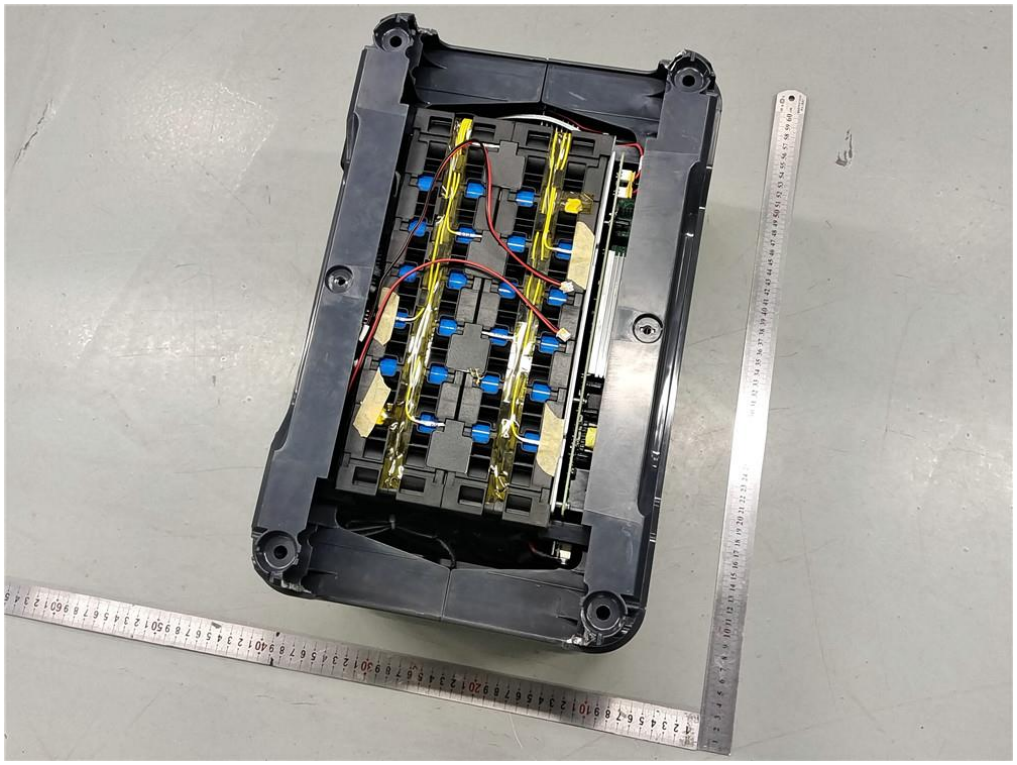
External

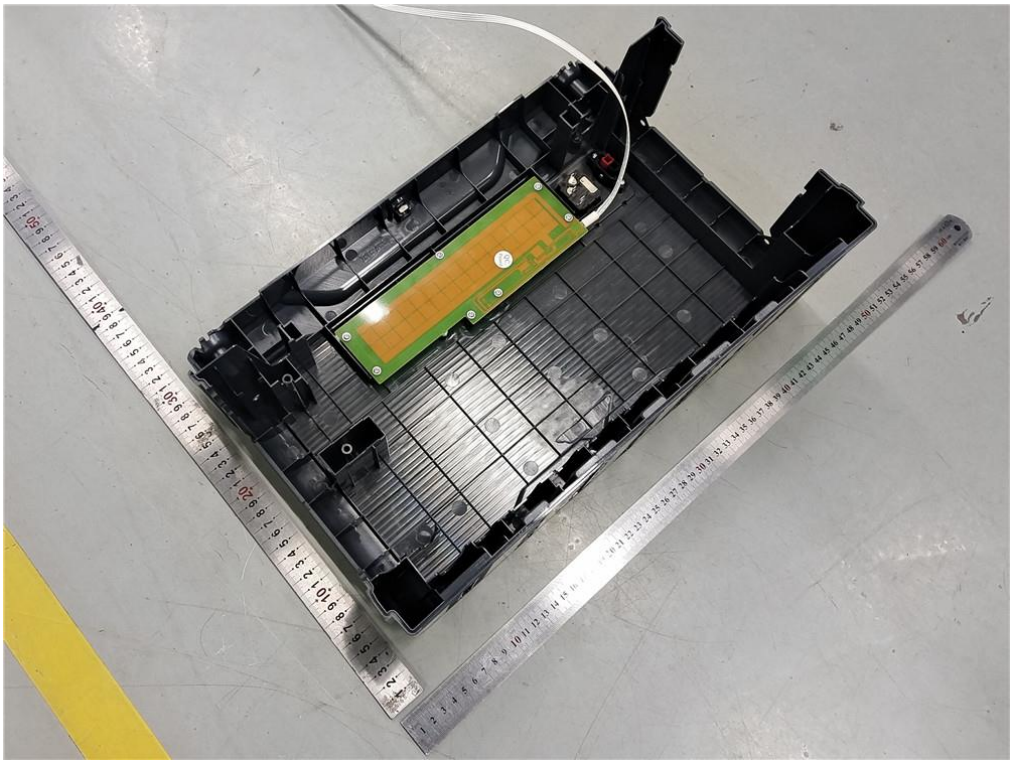

DuroMax

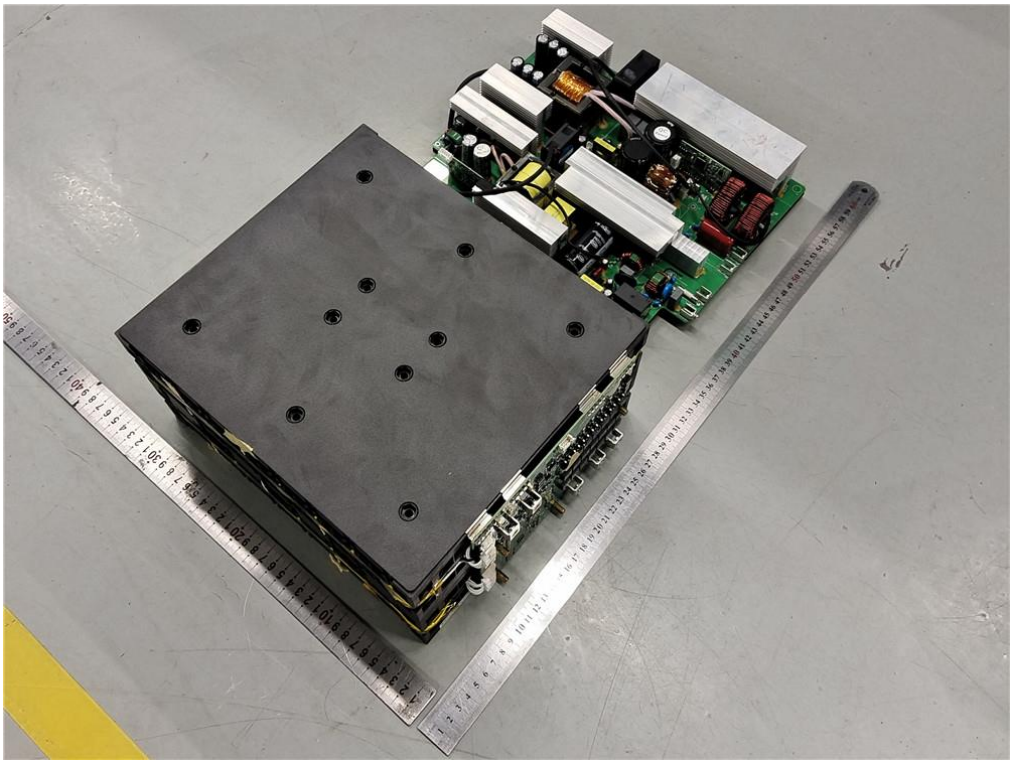
Internal

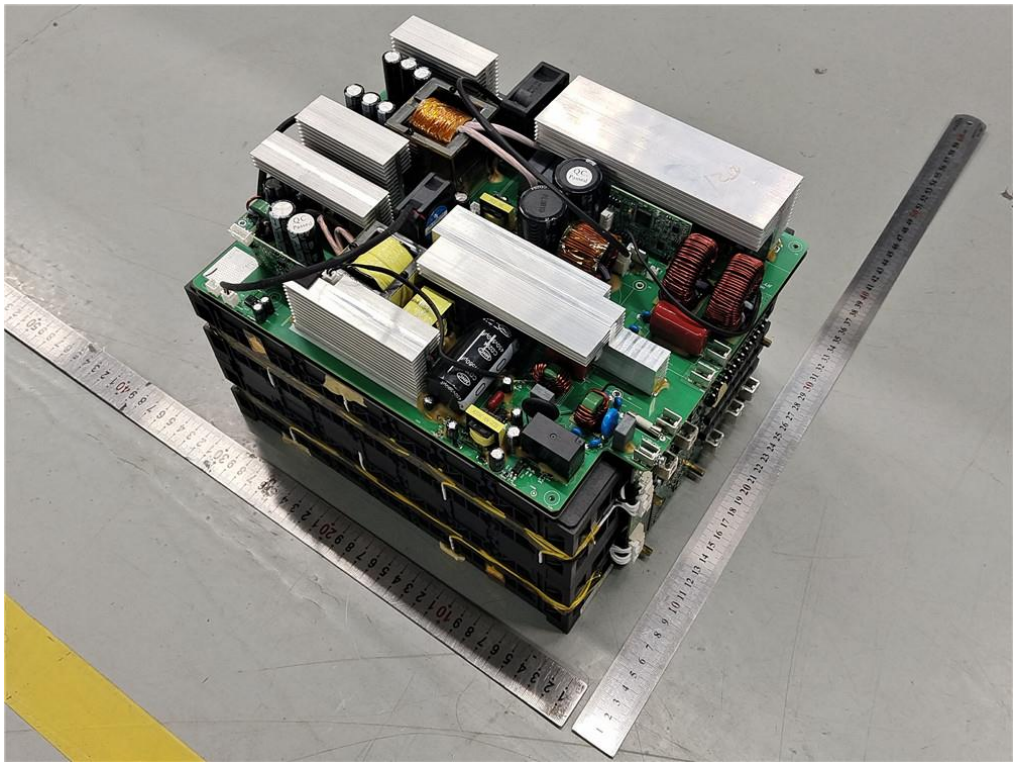


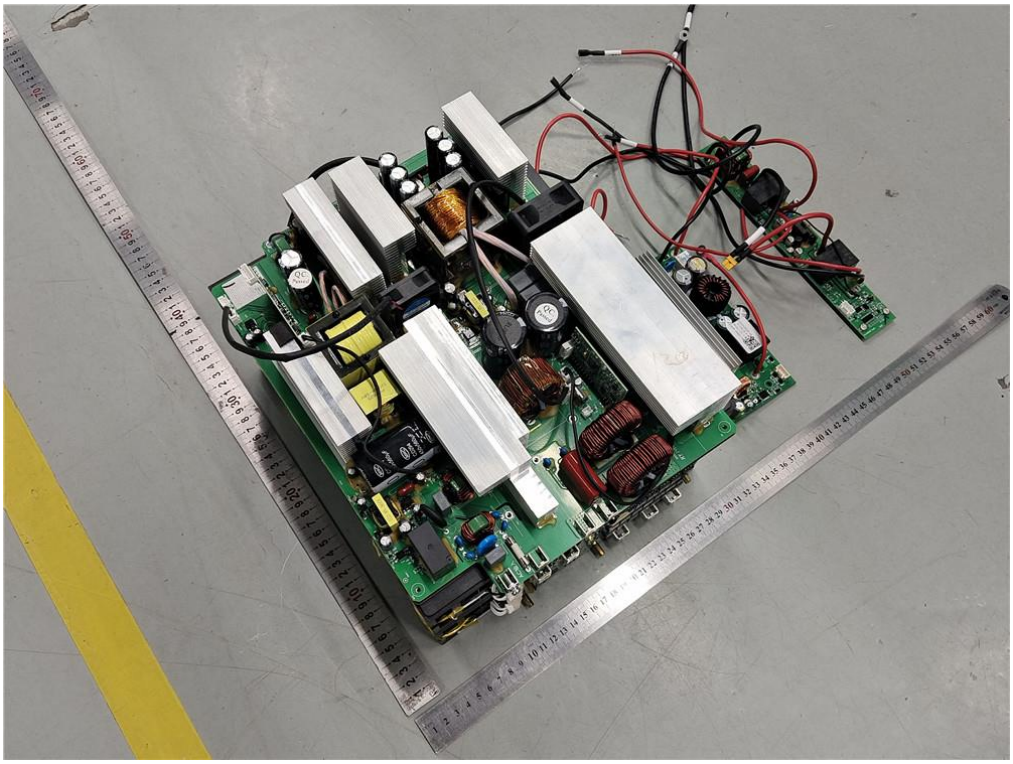


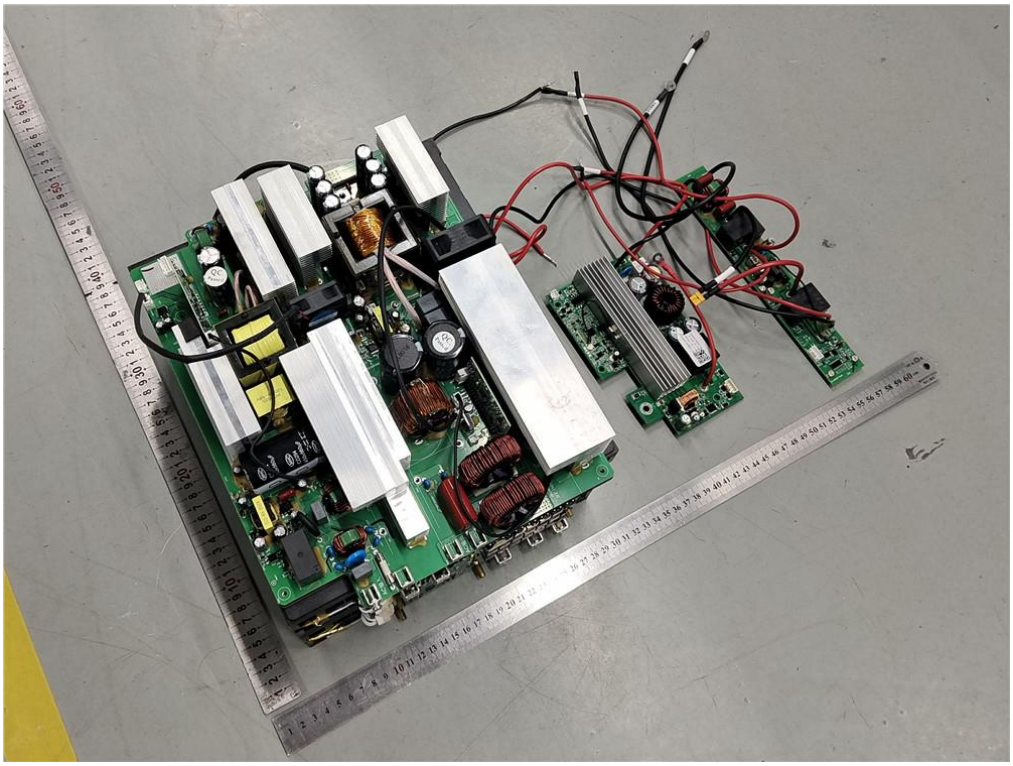


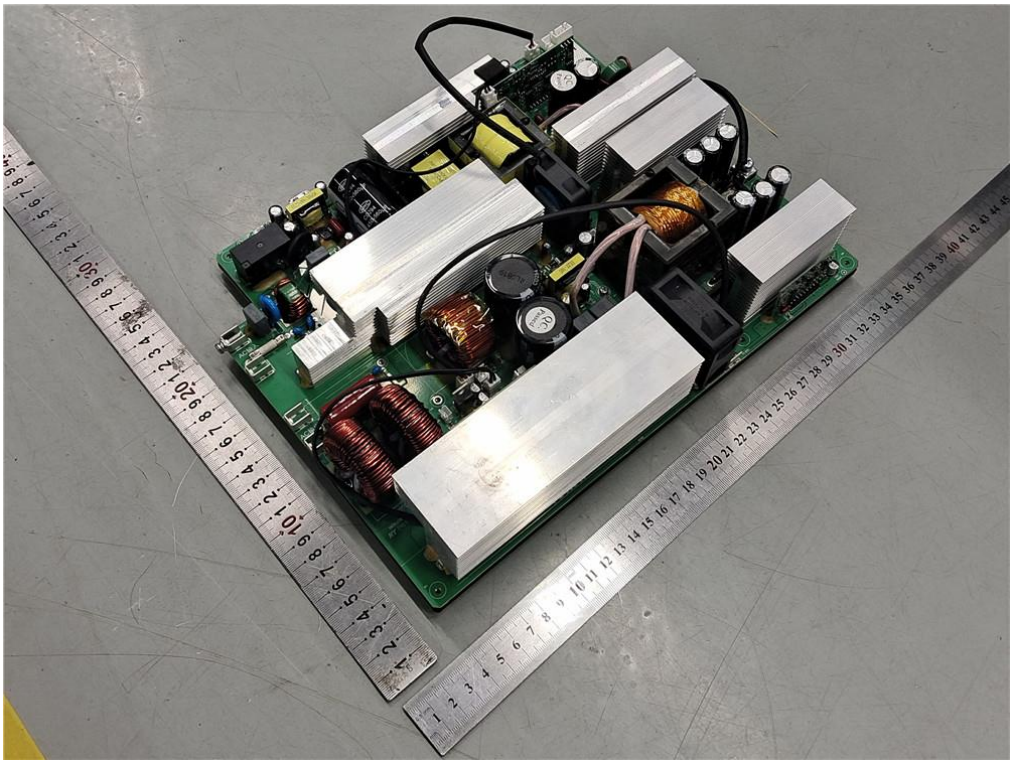


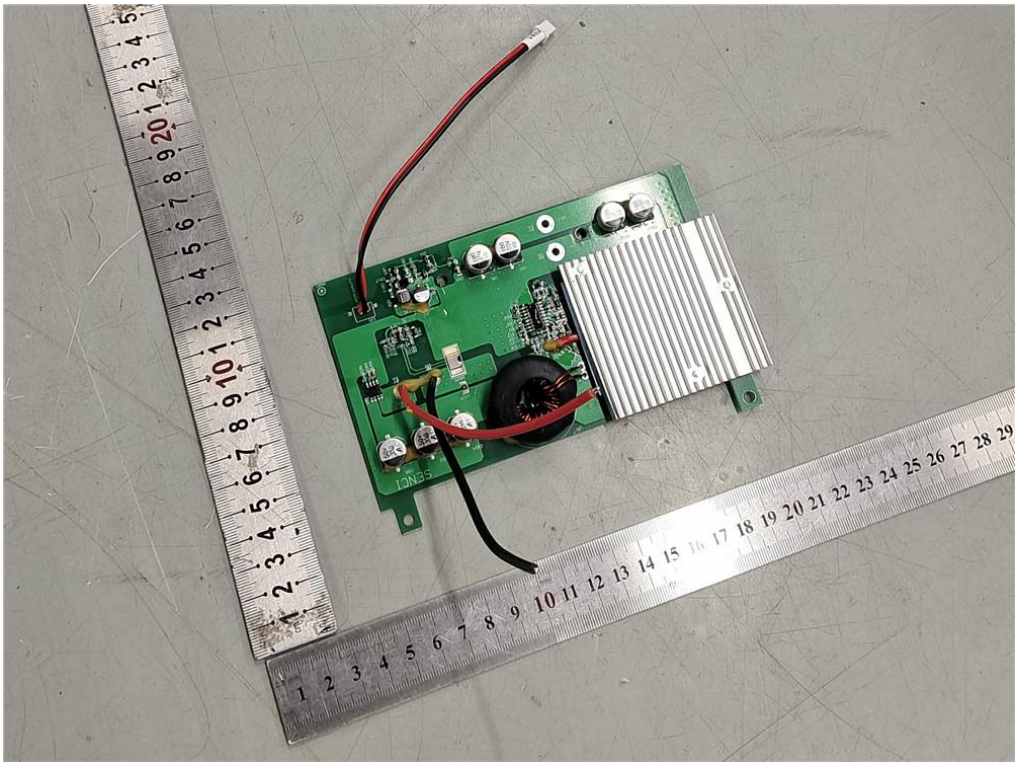


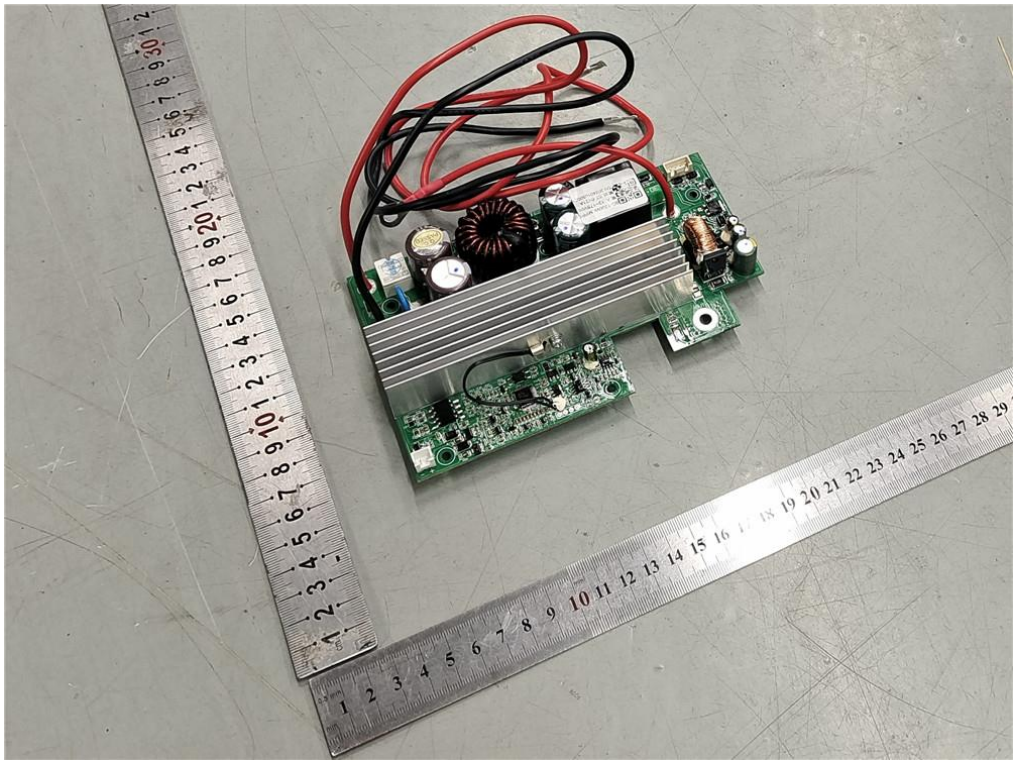


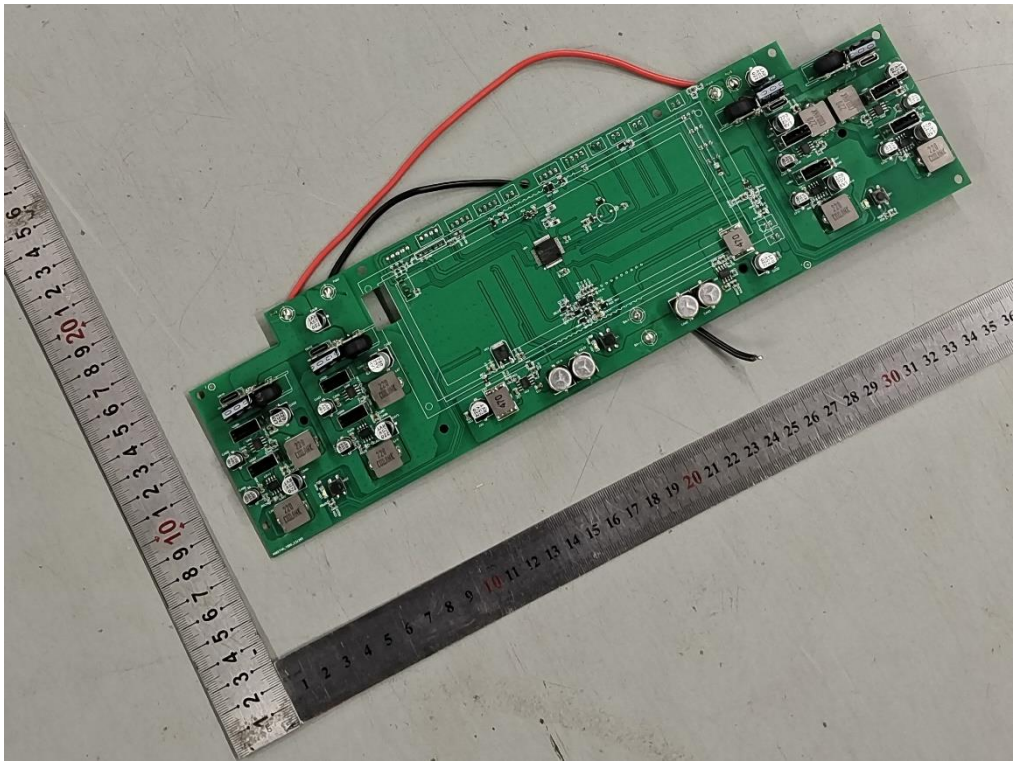


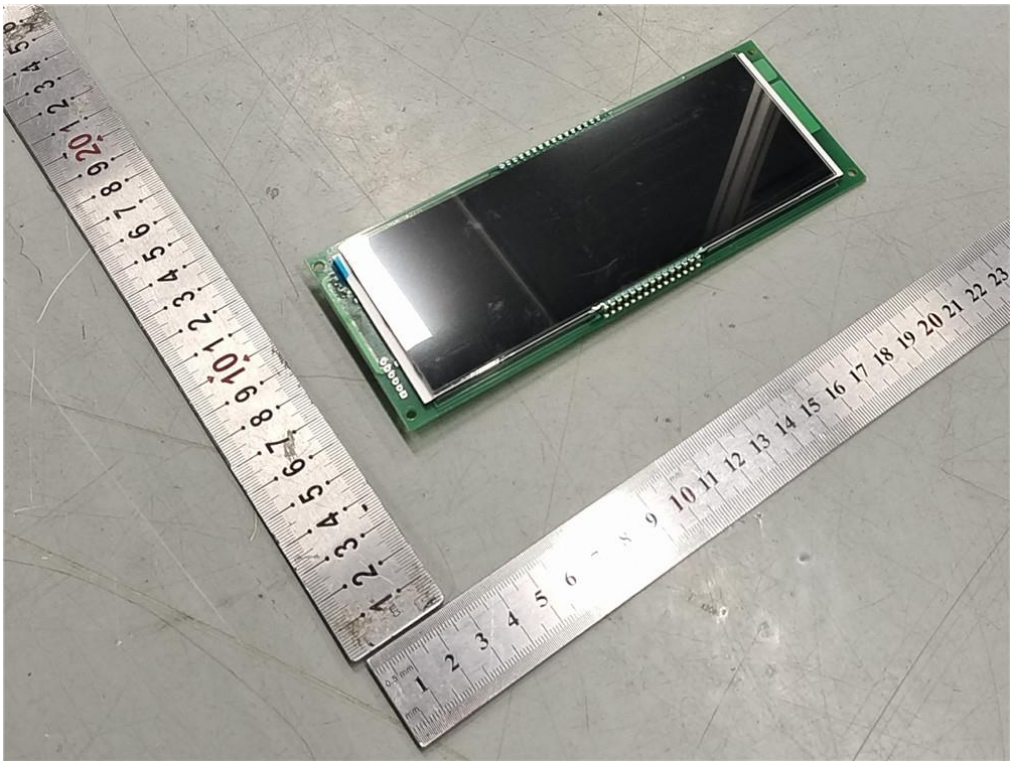


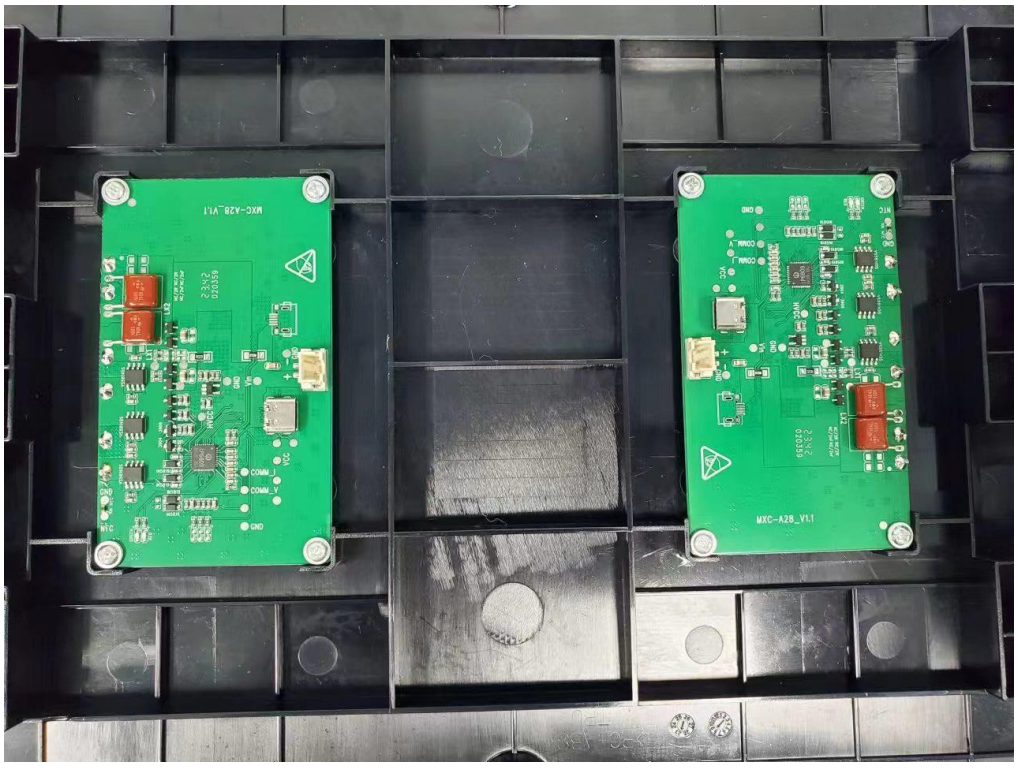


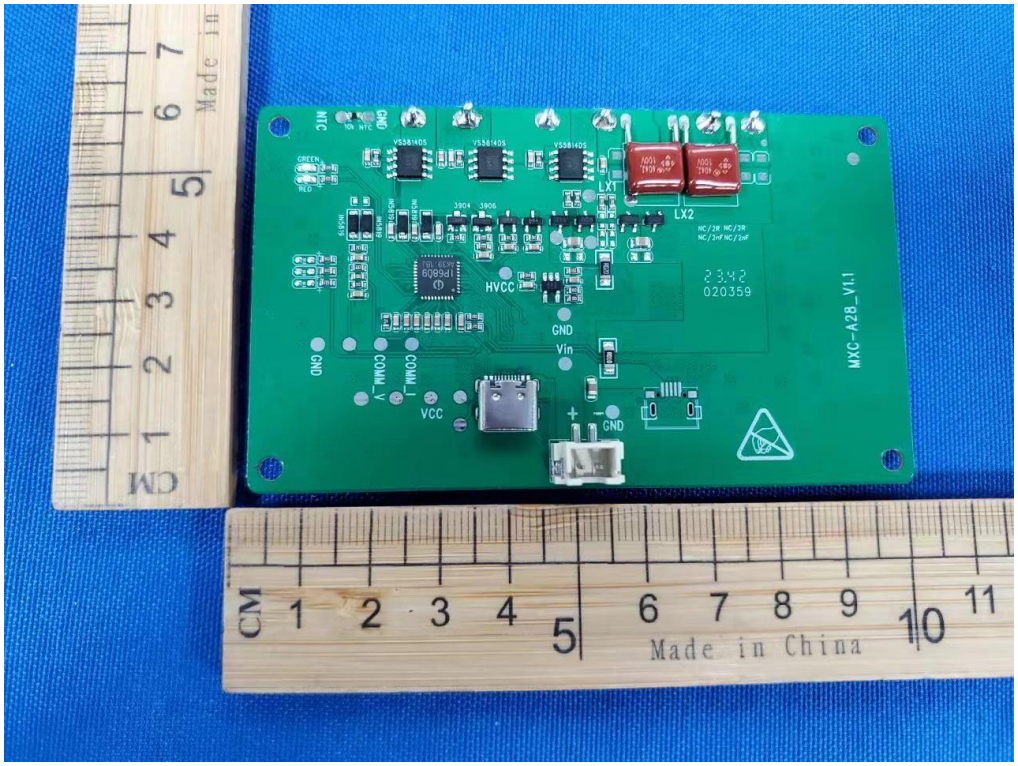


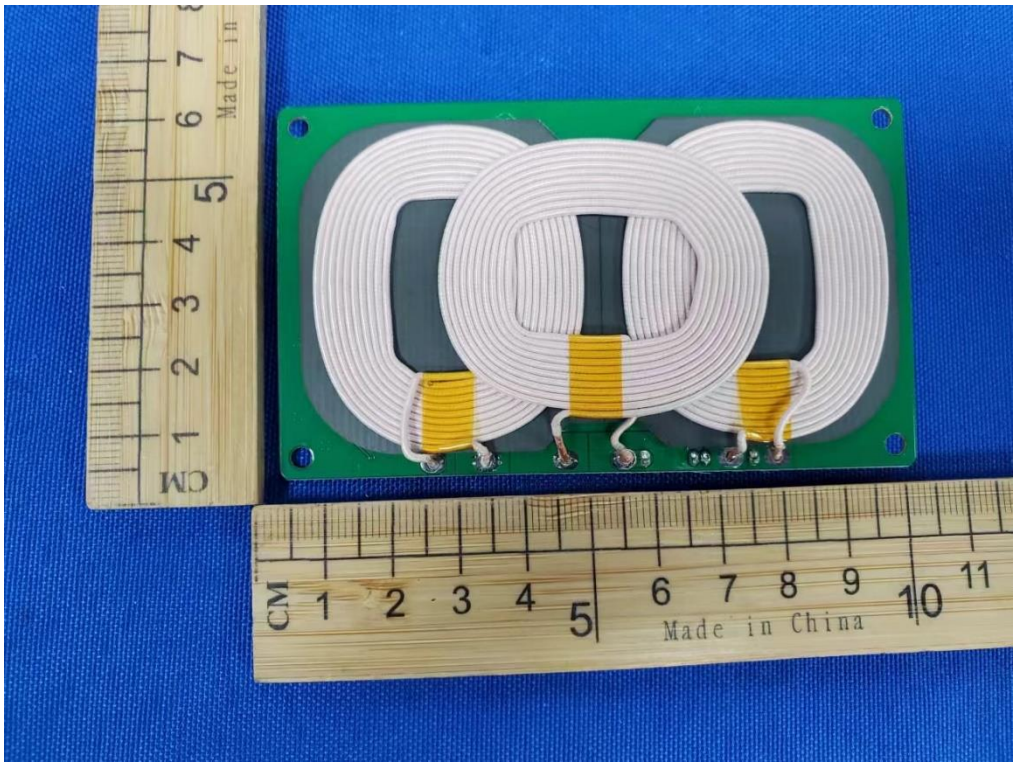


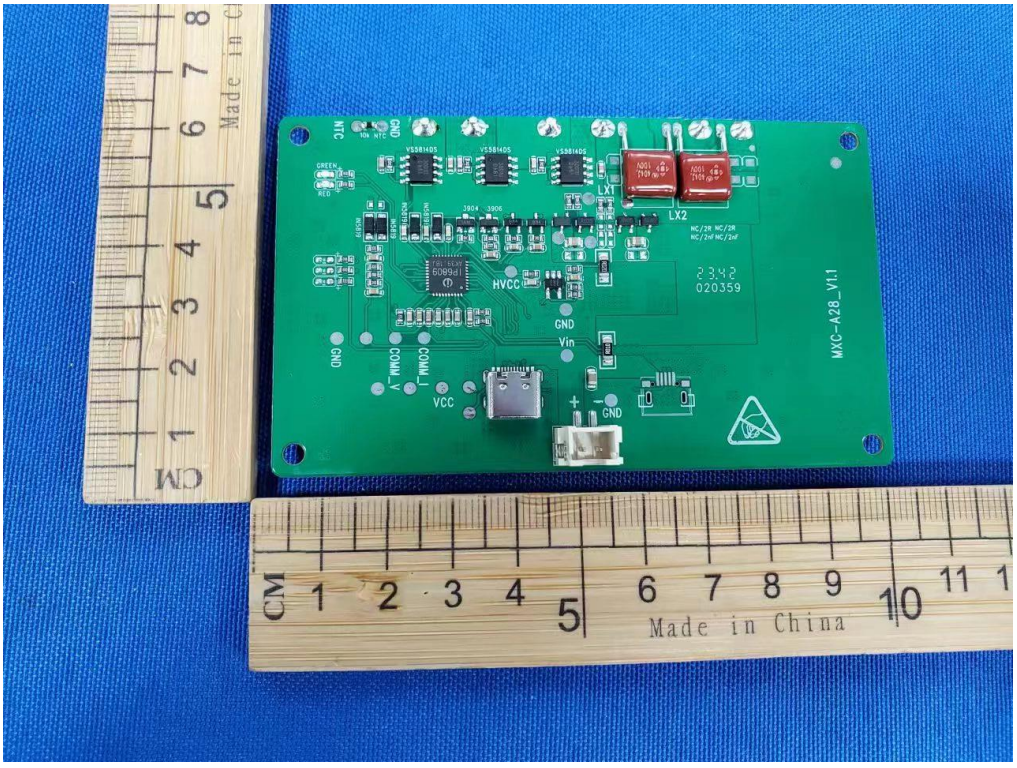


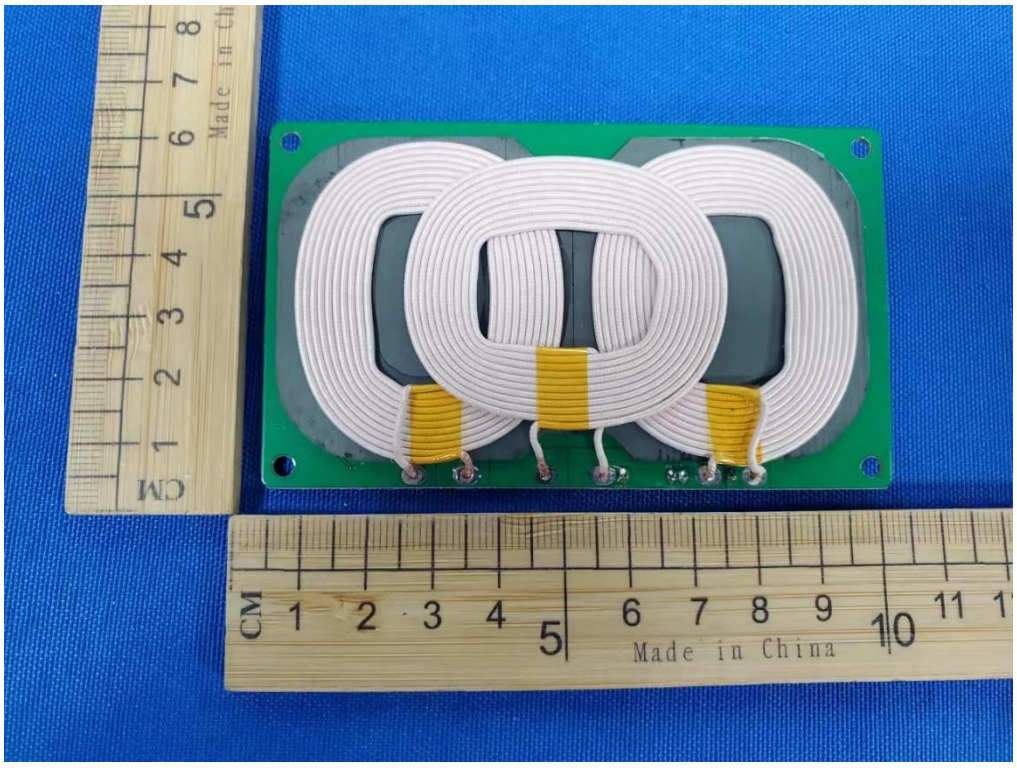



MXC-A28_V1.1


NTC
GND
LX1
LX2
HVCC
GND
Vin
GND
COMM_V
COMM_I
VCC
GND
MXC-A28_V1.1
Made in China


CM
Made in China


NTC
GND
LX1
LX2
HVCC
GND
Vin
GND
VCC
GND
MXC-A28_V1.1
Made in China



END OF REPORT