

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

OF

Portable Power Station

Model No.: 2400, 2000

FCC ID: 2BD9Y-2400

Report No.: E01A23120873F00201

Issue Date: April 23, 2024

Prepared for

Senci Electro mechanical Co.Ltd.

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Prepared by

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High-Tech Industrial Development Zone, Dongguan, Guangdong, China**

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Guangdong GTG Testing Technology Co., Ltd.**

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:	
Model Number:	2400, 2000

We hereby certify that:

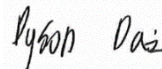
The above equipment was tested by Guangdong GTG Testing Technology Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10-2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.209(2022).

Prepared By:



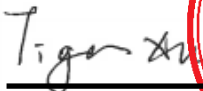
Rock Ning
Project Engineer

Checked By:



Dyson Dai
Project Engineer

Approved By:



Tiger Xu
Laboratory Supervisor



Modified Information

Version	Summary	Revision Date	Report No.
Ver.1.0	Original Report	/	E01A23120873F00201

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1 General Information

1.1 Product Description

Characteristics	Description
Product Name	Portable Power Station
Model	2400
Series Model	2000
Difference	All models have the same RF module and antenna, PCB layout, schematics and component, except the model name, Battery capacity and appearance are different.
Operation Mode	Wireless Charging
Ratings	Battery Capacity: 51.2V,42Ah, 2150.4Wh. DC/PV Input: 10V-150V$\leq$20A max. AC Input: 100V~120Vac 50-60Hz,1200W max. DC 5521 Output x 2: 13.6V$\leq$5A, Total 8A. Car Outlet Output: 13.6V$\leq$8A (DC 5521 Output (2)+ Car Outlet Output: Total 8A max.) Fast Charge Output x 4: 5V$\leq$2.5A, 9V$\leq$2A, 12V$\leq$2A(24W max.) USB-C 100W Output x2: 5V/9V/12V/15V/20V $\leq$ 5A(100W max)Total 200W. AC Output x 4: 120V~ 60Hz, total 2400W; AC Output x 1: 30A, 4800W Max(Two Parallel outputs). Discharging Temperature: 14 to 104 ℉ (-10 to 40 ℃) Charging Temperature: 32 to 104 ℉ (0 to 40 ℃) 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 19, 2024

1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: 2BD9Y-2400 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 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

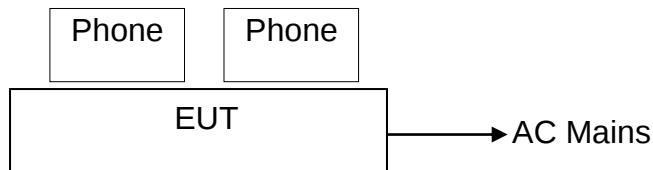


Table 2-1 Equipment Used in Tested System

Item	Equipment	Trade Mark	Model No.	FCC ID	Note
1.	Portable Power Station	/	2400	2BD9Y-2400	EUT
2.	Mobile phone	SAMSUNG	Galaxy Note 10	N/A	<i>Support Equipment</i>
3.	Mobile phone	Xiaomi	Xiaomi 10	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	$\pm 3\%$

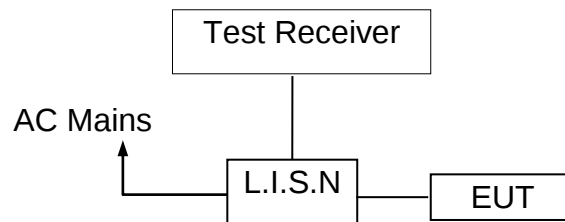
Remark: The coverage Factor ($k=2$), and measurement Uncertainty for a level of Confidence of 95%

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

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

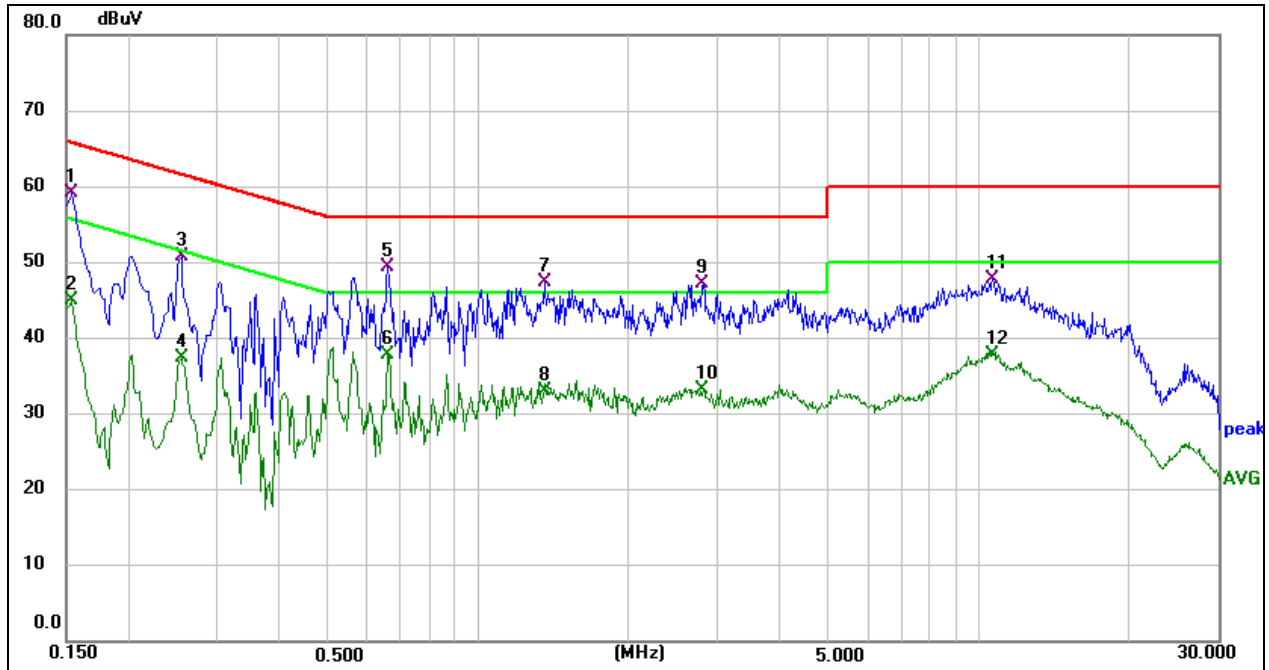
Note: 1. The lower limit shall apply at the transition frequencies

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.

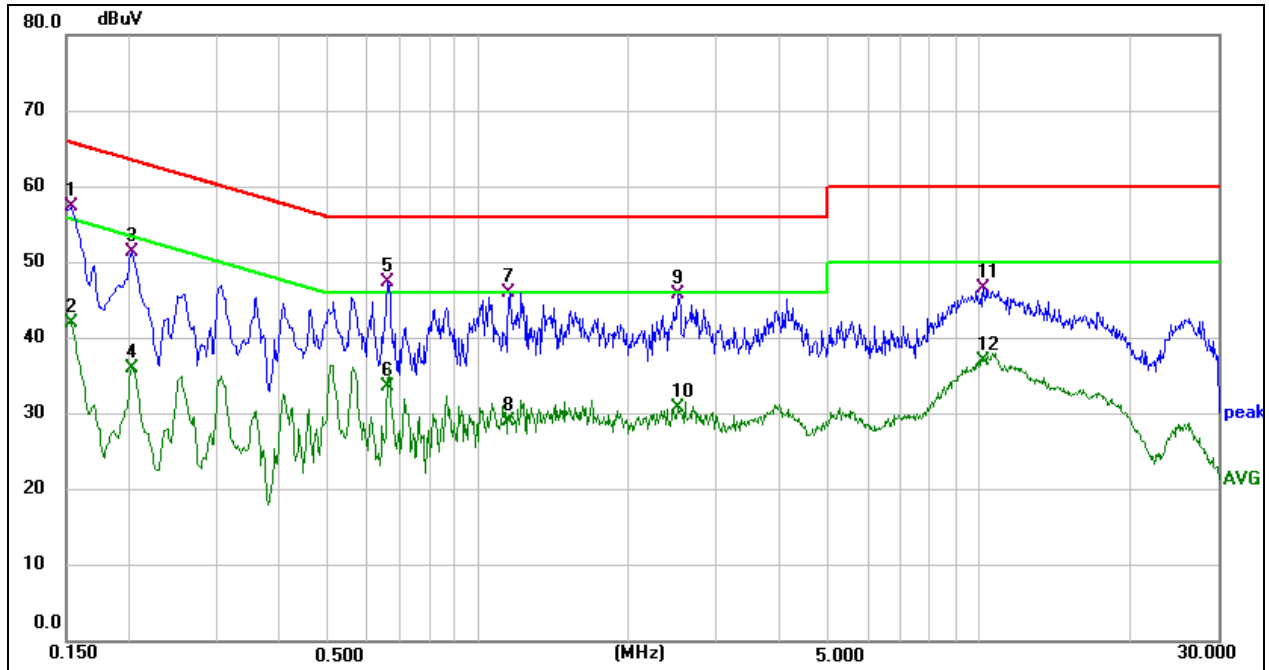


Phase:L1

Mode: Wireless Charging(15W x 2)

Model: 2400

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1	0.1539	48.40	10.67	59.07	65.79	-6.72	QP	
2	0.1539	34.26	10.67	44.93	55.79	-10.86	AVG	
3	0.2540	39.87	10.89	50.76	61.63	-10.87	QP	
4	0.2540	26.47	10.89	37.36	51.63	-14.27	AVG	
5	0.6580	37.63	11.73	49.36	56.00	-6.64	QP	
6	0.6580	25.99	11.73	37.72	46.00	-8.28	AVG	
7	1.3540	36.99	10.42	47.41	56.00	-8.59	QP	
8	1.3540	22.69	10.42	33.11	46.00	-12.89	AVG	
9	2.8179	36.82	10.44	47.26	56.00	-8.74	QP	
10	2.8179	22.79	10.44	33.23	46.00	-12.77	AVG	
11	10.6260	47.76	0.11	47.87	60.00	-12.13	QP	
12	10.6260	37.72	0.11	37.83	50.00	-12.17	AVG	

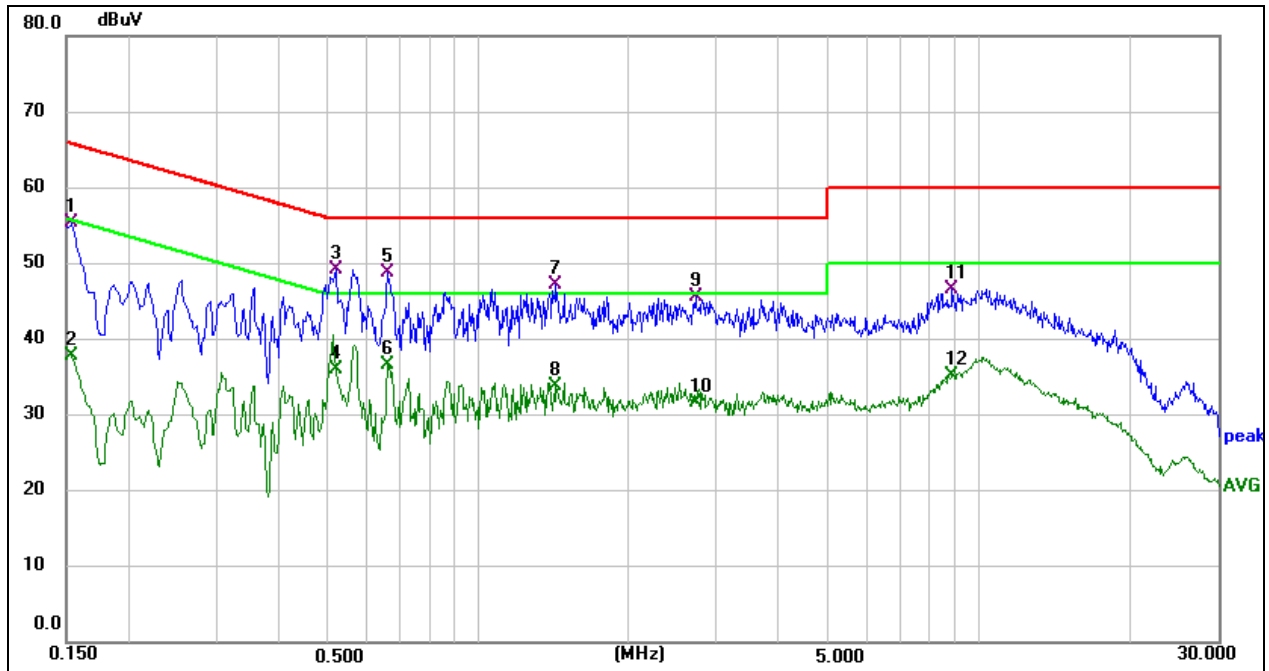


Phase:N

Mode: Wireless Charging(15W x 2)

Model: 2400

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1	0.1539	46.67	10.61	57.28	65.79	-8.51	QP	
2	0.1539	31.40	10.61	42.01	55.79	-13.78	AVG	
3	0.2020	40.63	10.73	51.36	63.53	-12.17	QP	
4	0.2020	25.25	10.73	35.98	53.53	-17.55	AVG	
5	0.6580	35.67	11.66	47.33	56.00	-8.67	QP	
6	0.6580	21.91	11.66	33.57	46.00	-12.43	AVG	
7	1.1539	35.67	10.35	46.02	56.00	-9.98	QP	
8	1.1539	18.66	10.35	29.01	46.00	-16.99	AVG	
9	2.5020	35.49	10.37	45.86	56.00	-10.14	QP	
10	2.5020	20.49	10.37	30.86	46.00	-15.14	AVG	
11	10.1940	35.95	10.63	46.58	60.00	-13.42	QP	
12	10.1940	26.29	10.63	36.92	50.00	-13.08	AVG	

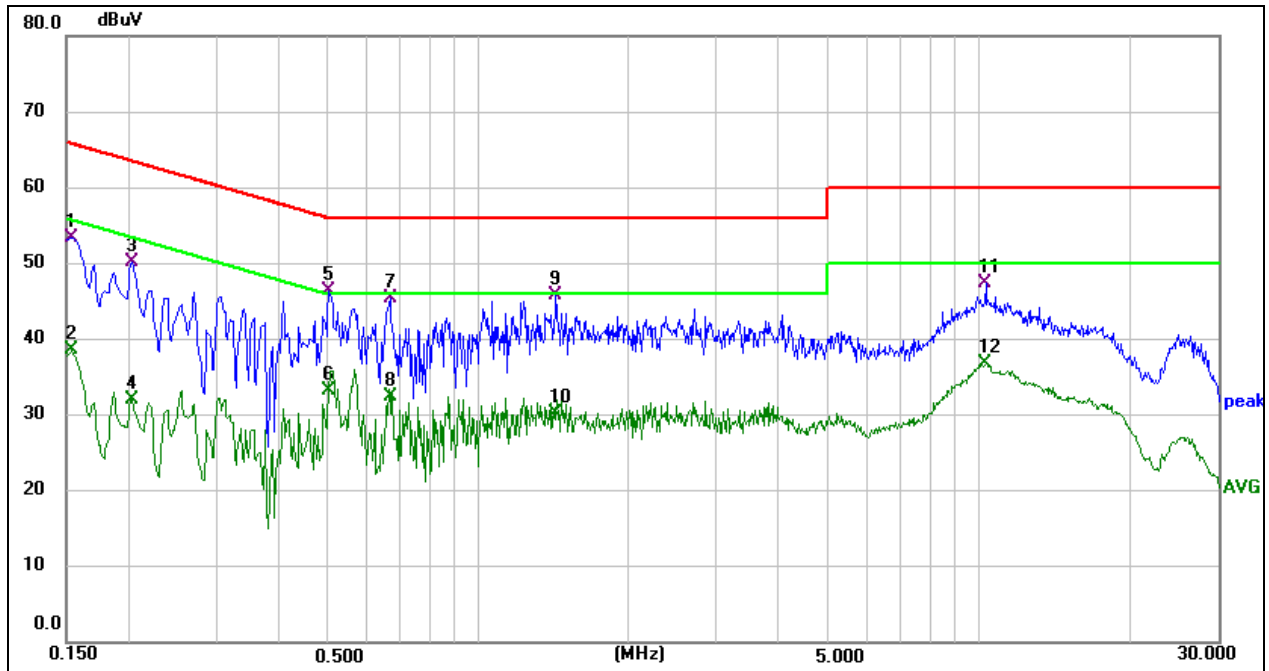


Phase:L1

Mode: Wireless Charging(15W x 2)

Model: 2000

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1	0.1539	44.71	10.67	55.38	65.79	-10.41	QP	
2	0.1539	27.12	10.67	37.79	55.79	-18.00	AVG	
3	0.5180	37.81	11.44	49.25	56.00	-6.75	QP	
4	0.5180	24.58	11.44	36.02	46.00	-9.98	AVG	
5	0.6580	36.96	11.73	48.69	56.00	-7.31	QP	
6	0.6580	24.78	11.73	36.51	46.00	-9.49	AVG	
7	1.4299	36.71	10.43	47.14	56.00	-8.86	QP	
8	1.4299	23.38	10.43	33.81	46.00	-12.19	AVG	
9	2.7180	35.11	10.44	45.55	56.00	-10.45	QP	
10	2.7180	21.22	10.44	31.66	46.00	-14.34	AVG	
11	8.8620	36.00	10.66	46.66	60.00	-13.34	QP	
12	8.8620	24.55	10.66	35.21	50.00	-14.79	AVG	



Phase:N

Mode: Wireless Charging(15W x 2)

Model: 2000

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1	0.1539	42.80	10.61	53.41	65.79	-12.38	QP	
2	0.1539	27.97	10.61	38.58	55.79	-17.21	AVG	
3	0.2020	39.52	10.73	50.25	63.53	-13.28	QP	
4	0.2020	21.38	10.73	32.11	53.53	-21.42	AVG	
5	0.5020	35.11	11.33	46.44	56.00	-9.56	QP	
6	0.5020	21.90	11.33	33.23	46.00	-12.77	AVG	
7	0.6660	33.67	11.68	45.35	56.00	-10.65	QP	
8	0.6660	20.76	11.68	32.44	46.00	-13.56	AVG	
9	1.4299	35.44	10.36	45.80	56.00	-10.20	QP	
10	1.4299	19.85	10.36	30.21	46.00	-15.79	AVG	
11	10.3139	47.15	0.32	47.47	60.00	-12.53	QP	
12	10.3139	36.46	0.32	36.78	50.00	-13.22	AVG	

5.6 Conducted Measurement Photo



Model: 2400



Model: 2000

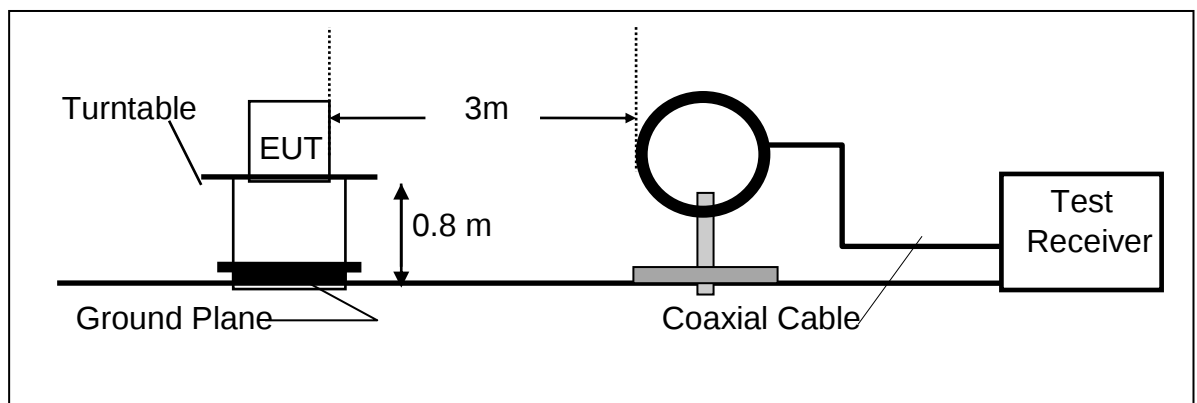
6 Radiated Emission Test

6.1 Measurement Procedure

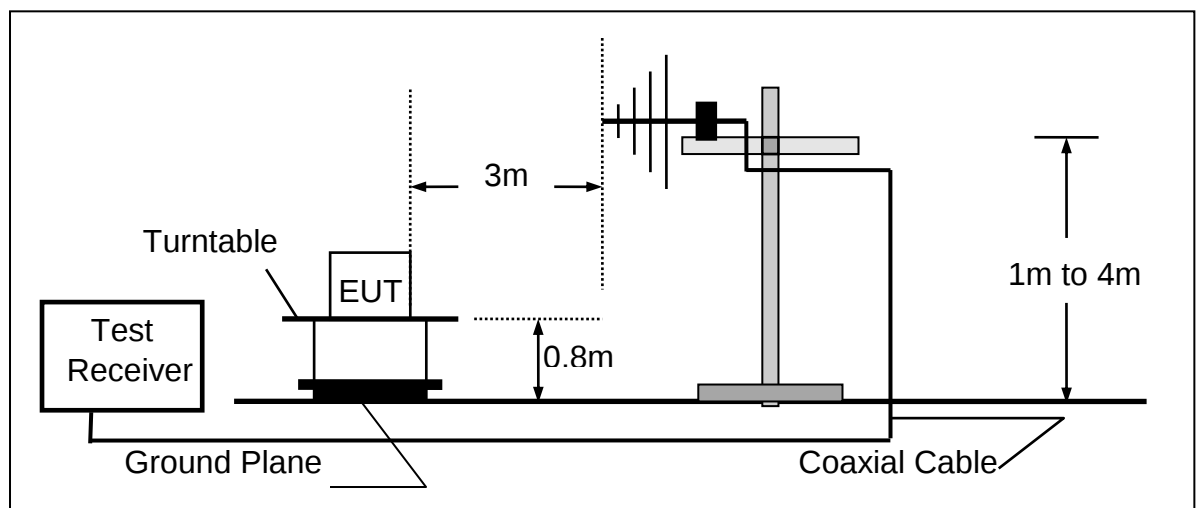
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above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

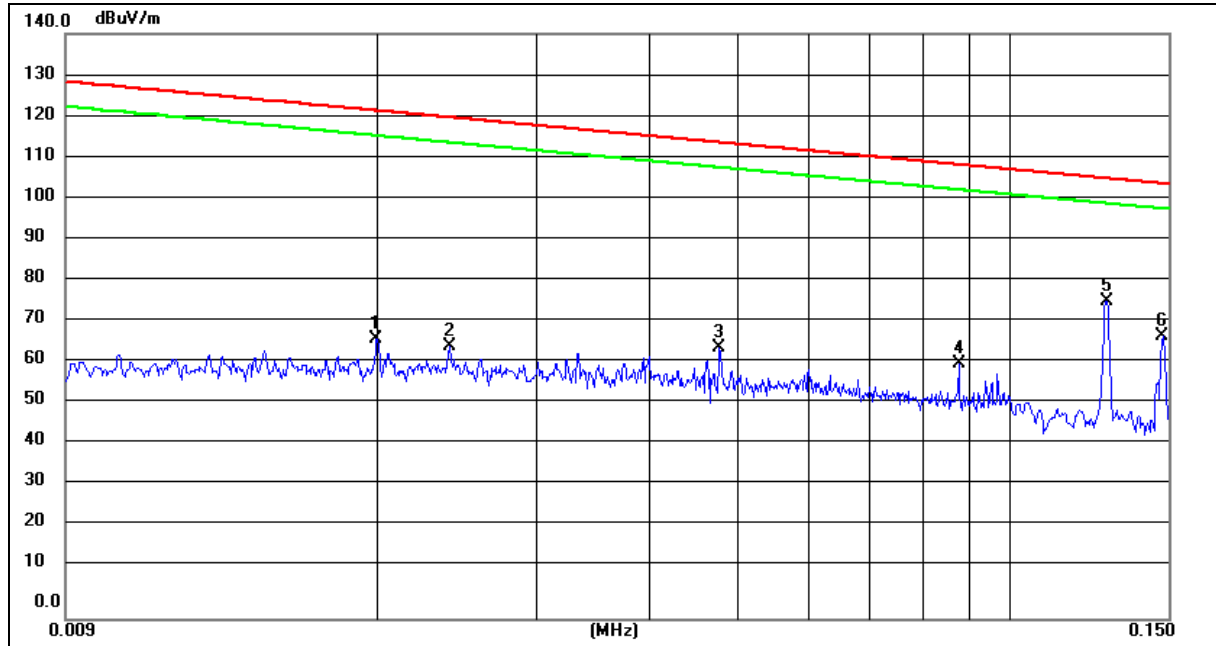
15.205 Restricted bands of operation

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

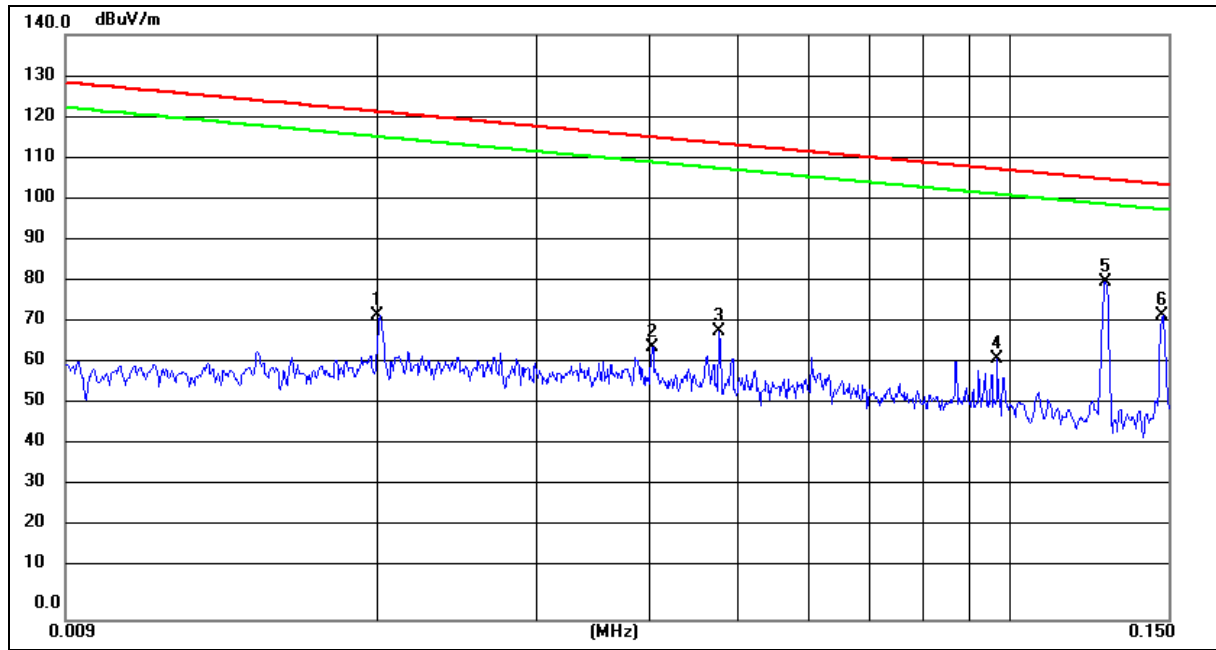
6.5 Measurement Result

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.



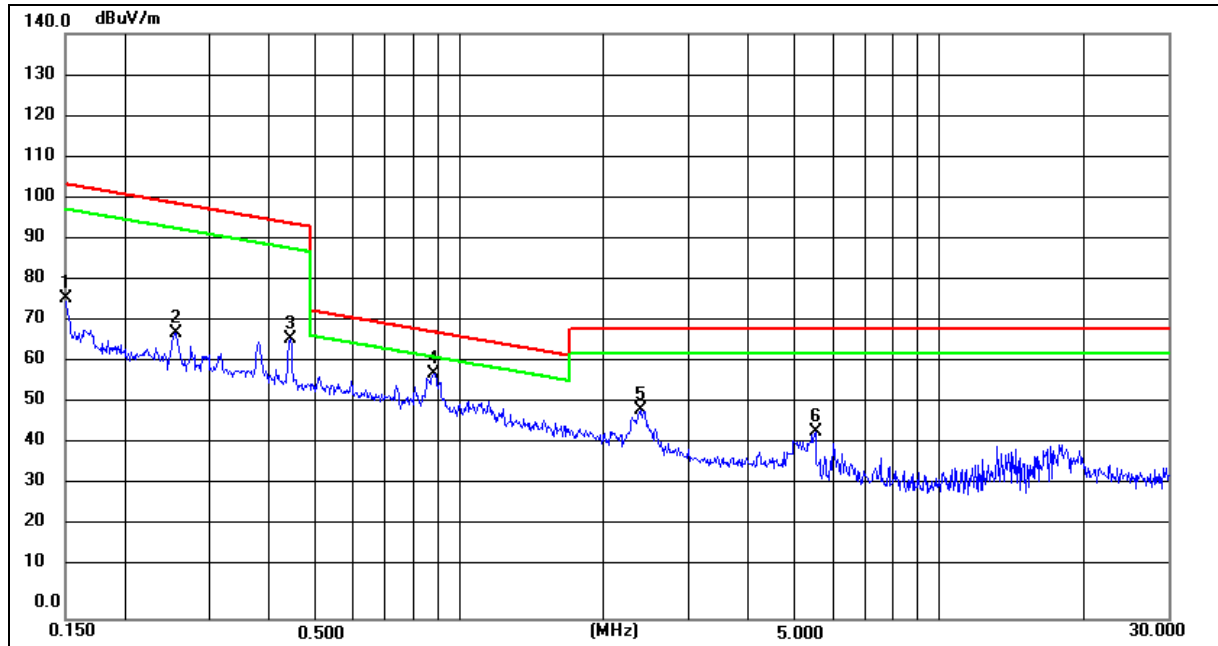
Site:		Antenna: Coaxial	Temperature(C): 24.3(C)
Limit:	FCC Part 15.209 3m Radiation(QP)9K-30MH		Humidity(%): 53.2%
EUT:	Portable Power Station	Test Time:	2024/03/22
M/N.:	2400	Power Rating:	AC 120V/60Hz
Mode:	Wireless Charging 15W x 2	Test Engineer:	Big
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Comment
1	0.0199	46.92	20.29	67.21	121.61	-54.40	peak	
2	0.0240	45.25	20.23	65.48	119.99	-54.51	peak	
3	0.0477	44.95	19.96	64.91	114.02	-49.11	peak	
4	0.0879	41.48	19.73	61.21	108.72	-47.51	peak	
5 *	0.1281	56.48	19.63	76.11	105.45	-29.34	peak	
6	0.1479	48.06	19.64	67.70	104.20	-36.50	peak	



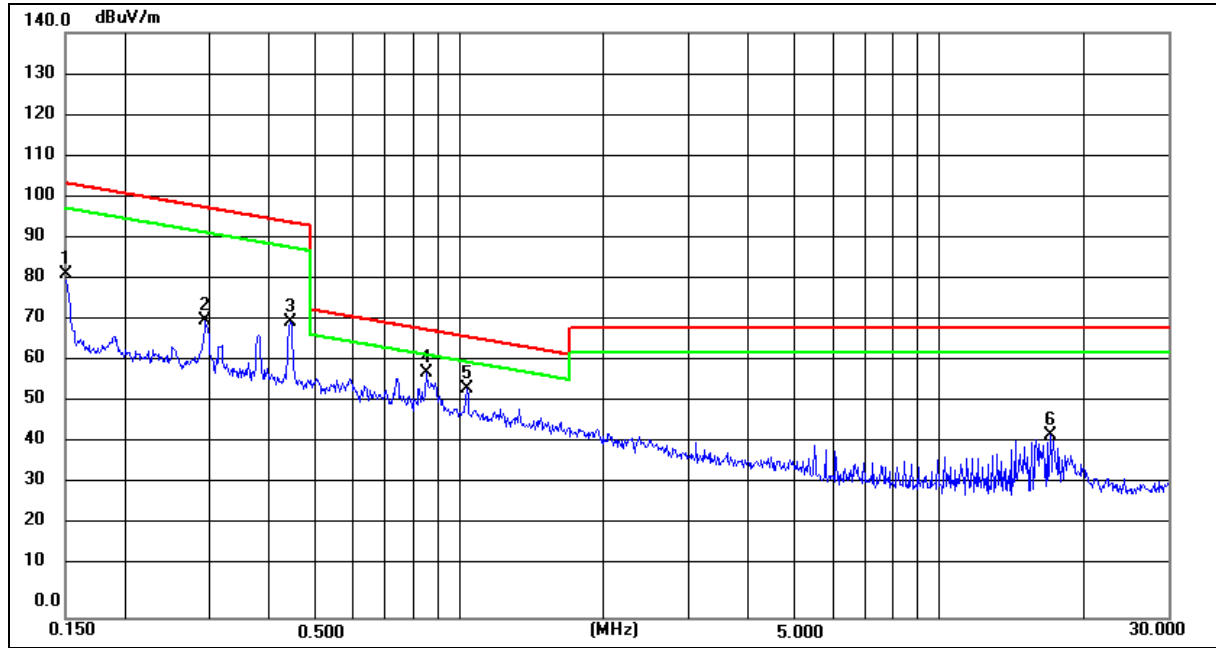
Site:		Antenna: Coplaner	Temperature(C): 24.3(C)
Limit:	FCC Part 15.209 3m Radiation(QP)9K-30MH		Humidity(%): 53.2%
EUT:	Portable Power Station	Test Time:	2024/03/22
M/N.:	2400	Power Rating:	AC 120V/60Hz
Mode:	Wireless Charging 15W x 2	Test Engineer:	Big
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Comment
1	0.0200	52.80	20.29	73.09	121.57	-48.48	peak	
2	0.0401	45.40	20.04	65.44	115.53	-50.09	peak	
3	0.0477	49.31	19.96	69.27	114.02	-44.75	peak	
4	0.0970	42.97	19.67	62.64	107.86	-45.22	peak	
5 *	0.1278	61.37	19.63	81.00	105.47	-24.47	peak	
6	0.1479	53.40	19.64	73.04	104.20	-31.16	peak	



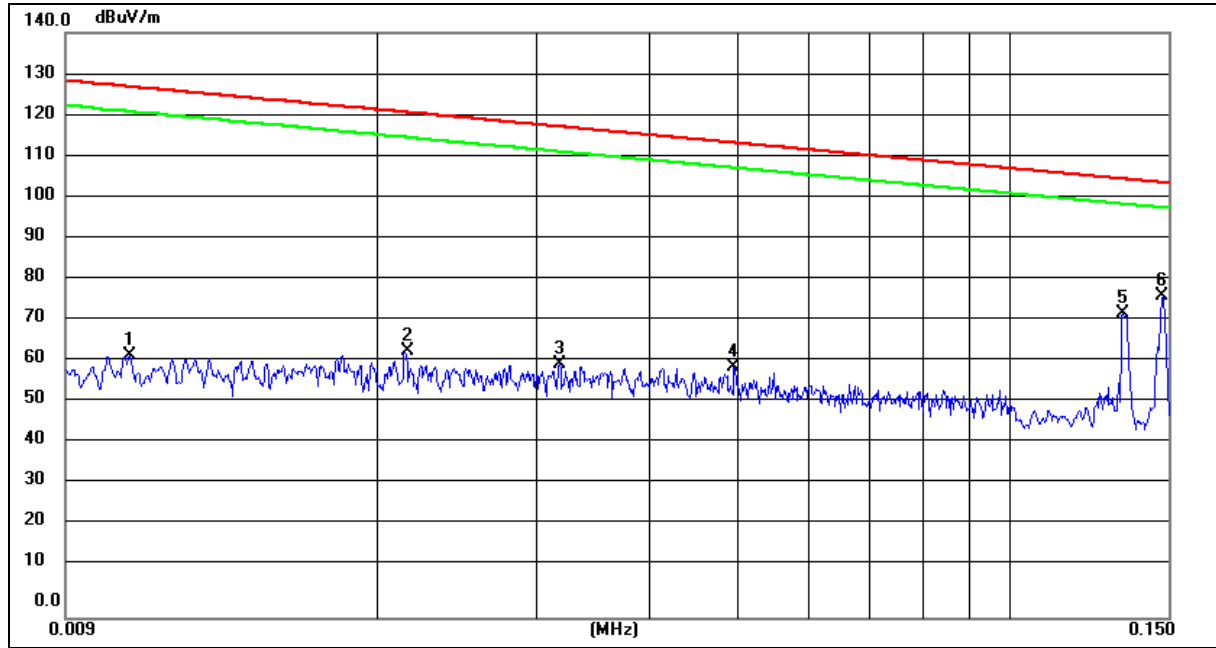
Site:		Antenna: Coaxial	Temperature(C): 24.3(C)
Limit:	FCC Part 15.209 3m Radiation(QP)9K-30MH		Humidity(%): 53.2%
EUT:	Portable Power Station	Test Time:	2024/03/22
M/N.:	2400	Power Rating:	AC 120V/60Hz
Mode:	Wireless Charging 15W x 2	Test Engineer:	Big
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Comment
1	0.1500	57.18	19.64	76.82	104.08	-27.26	peak	
2	0.2562	48.94	19.63	68.57	99.43	-30.86	peak	
3	0.4421	47.29	19.60	66.89	94.69	-27.80	peak	
4 *	0.8803	39.24	19.48	58.72	68.73	-10.01	peak	
5	2.3710	30.35	19.57	49.92	69.50	-19.58	peak	
6	5.5054	25.01	19.76	44.77	69.50	-24.73	peak	



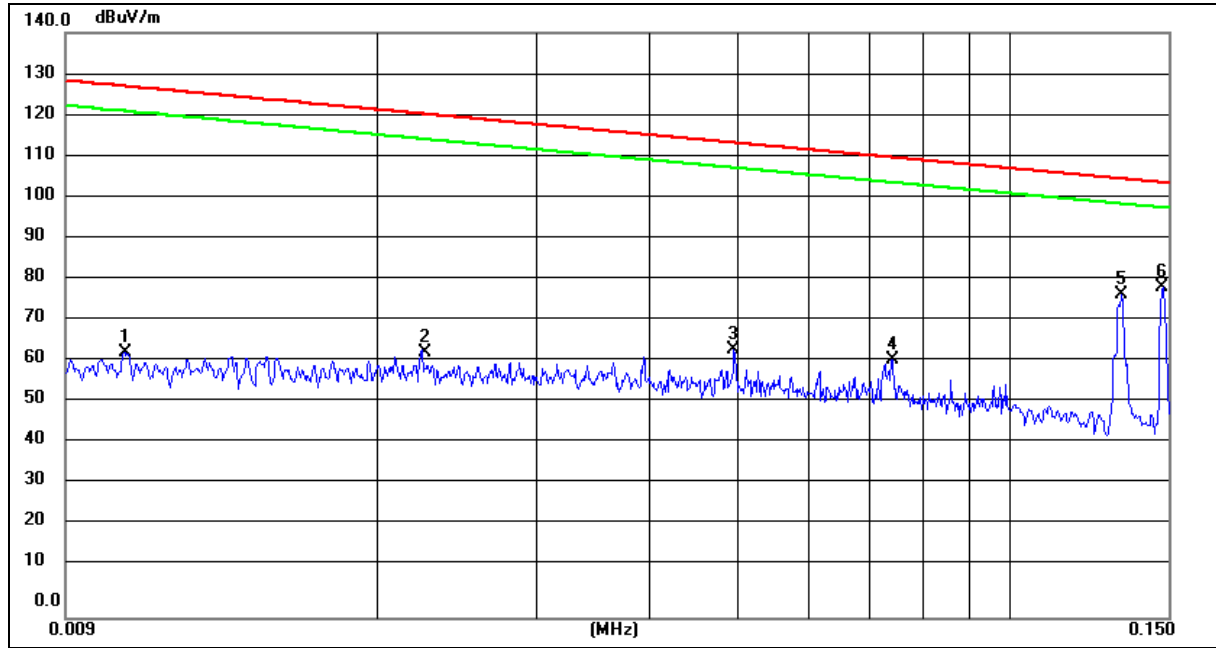
Site:		Antenna: Coplaner	Temperature(C): 24.3(C)
Limit:	FCC Part 15.209 3m Radiation(QP)9K-30MH		Humidity(%): 53.2%
EUT:	Portable Power Station	Test Time:	2024/03/22
M/N.:	2400	Power Rating:	AC 120V/60Hz
Mode:	Wireless Charging 15W x 2	Test Engineer:	Big
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Comment
1	0.1500	62.58	19.64	82.22	104.08	-21.86	peak	
2	0.2940	51.56	19.62	71.18	98.23	-27.05	peak	
3	0.4421	51.25	19.60	70.85	94.69	-23.84	peak	
4 *	0.8528	39.14	19.49	58.63	69.00	-10.37	peak	
5	1.0320	35.60	19.44	55.04	67.35	-12.31	peak	
6	17.0181	23.35	20.60	43.95	69.50	-25.55	peak	



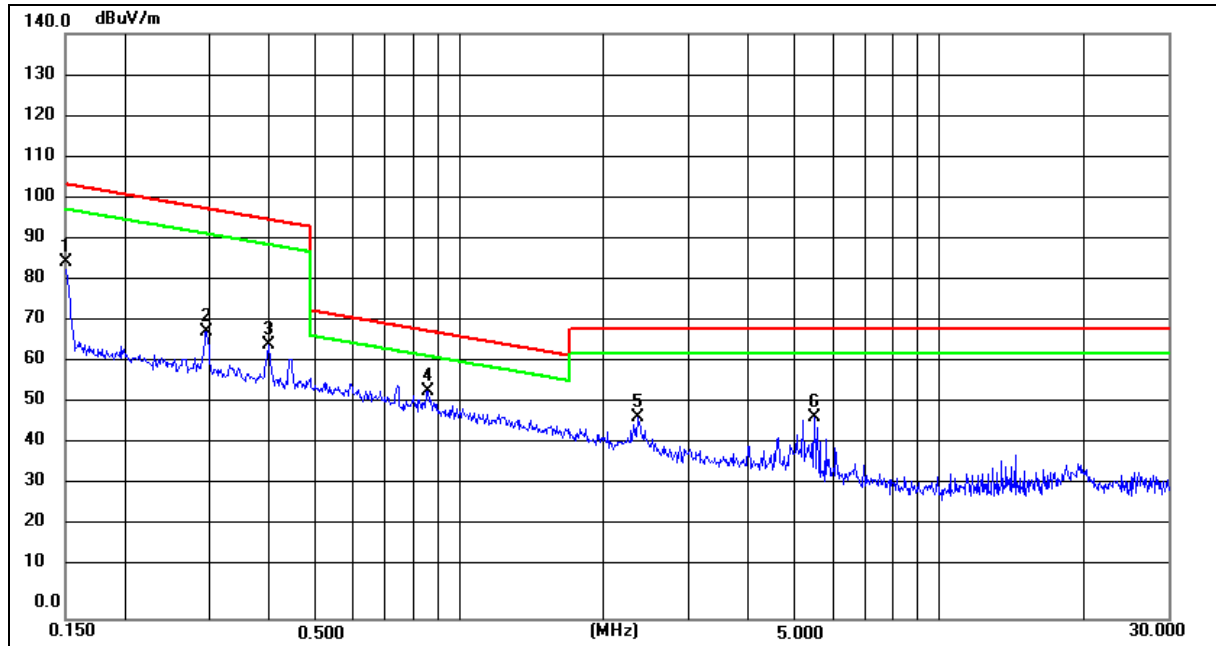
Site:		Antenna: Coaxial	Temperature(C): 24.3(C)
Limit:	FCC Part 15.209 3m Radiation(QP)9K-30MH		Humidity(%): 53.2%
EUT:	Portable Power Station	Test Time:	2024/03/22
M/N.:	2000	Power Rating:	AC 120V/60Hz
Mode:	Wireless Charging 15W x 2	Test Engineer:	Big
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Comment
1	0.0106	42.50	20.42	62.92	127.08	-64.16	peak	
2	0.0214	43.59	20.27	63.86	120.98	-57.12	peak	
3	0.0317	40.58	20.12	60.70	117.57	-56.87	peak	
4	0.0495	40.24	19.94	60.18	113.70	-53.52	peak	
5	0.1335	53.26	19.64	72.90	105.09	-32.19	peak	
6 *	0.1479	57.31	19.64	76.95	104.20	-27.25	peak	



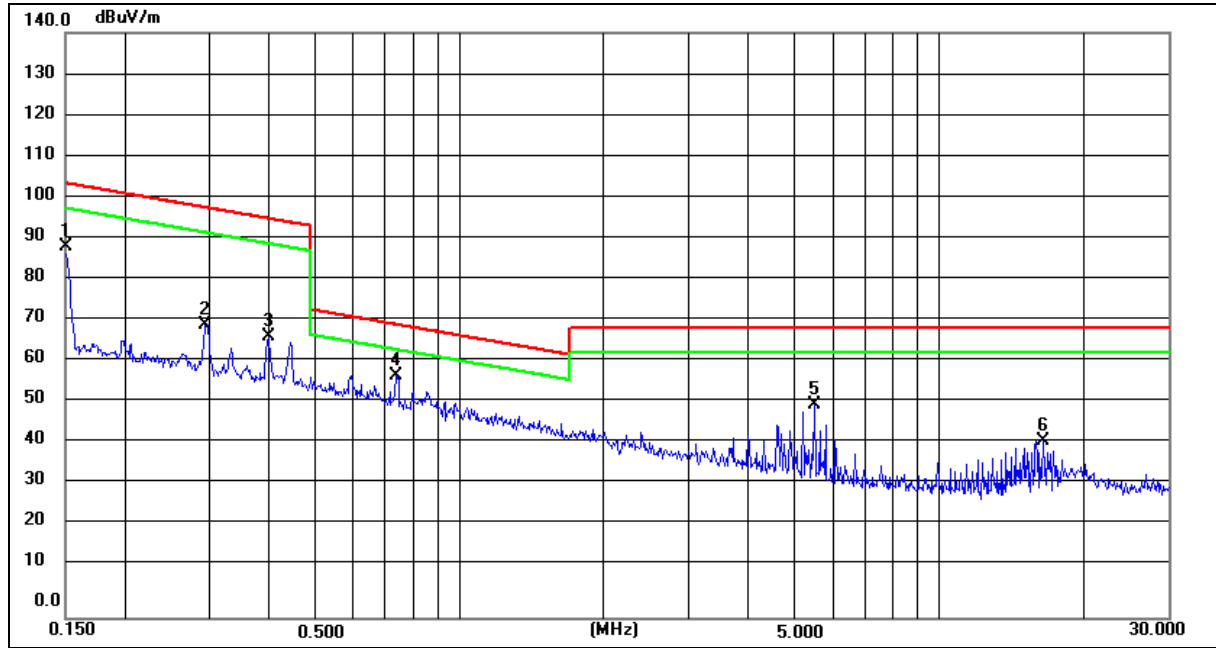
Site:		Antenna: Coplaner	Temperature(C): 24.3(C)
Limit:	FCC Part 15.209 3m Radiation(QP)9K-30MH		Humidity(%): 53.2%
EUT:	Portable Power Station	Test Time:	2024/03/22
M/N.:	2000	Power Rating:	AC 120V/60Hz
Mode:	Wireless Charging 15W x 2	Test Engineer:	Big
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Comment
1	0.0105	43.03	20.43	63.46	127.16	-63.70	peak	
2	0.0224	43.32	20.26	63.58	120.58	-57.00	peak	
3	0.0495	44.45	19.94	64.39	113.70	-49.31	peak	
4	0.0742	42.22	19.66	61.88	110.19	-48.31	peak	
5	0.1332	57.64	19.64	77.28	105.11	-27.83	peak	
6 *	0.1479	59.67	19.64	79.31	104.20	-24.89	peak	



Site:		Antenna: Coaxial	Temperature(C): 24.3(C)
Limit:	FCC Part 15.209 3m Radiation(QP)9K-30MH		Humidity(%): 53.2%
EUT:	Portable Power Station	Test Time:	2024/03/22
M/N.:	2000	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	0.1500	65.80	19.64	85.44	104.08	-18.64	peak	
2	0.2955	49.06	19.62	68.68	98.19	-29.51	peak	
3	0.3997	46.04	19.61	65.65	95.57	-29.92	peak	
4 *	0.8573	35.25	19.49	54.74	68.95	-14.21	peak	
5	2.3460	28.74	19.57	48.31	69.50	-21.19	peak	
6	5.4763	28.51	19.77	48.28	69.50	-21.22	peak	



Site:		Antenna: Coplaner	Temperature(C): 24.3(C)
Limit:	FCC Part 15.209 3m Radiation(QP)9K-30MH		Humidity(%): 53.2%
EUT:	Portable Power Station	Test Time:	2024/03/22
M/N.:	2000	Power Rating:	AC 120V/60Hz
Mode:	Wireless Charging 15W x 2	Test Engineer:	Big
Note:			

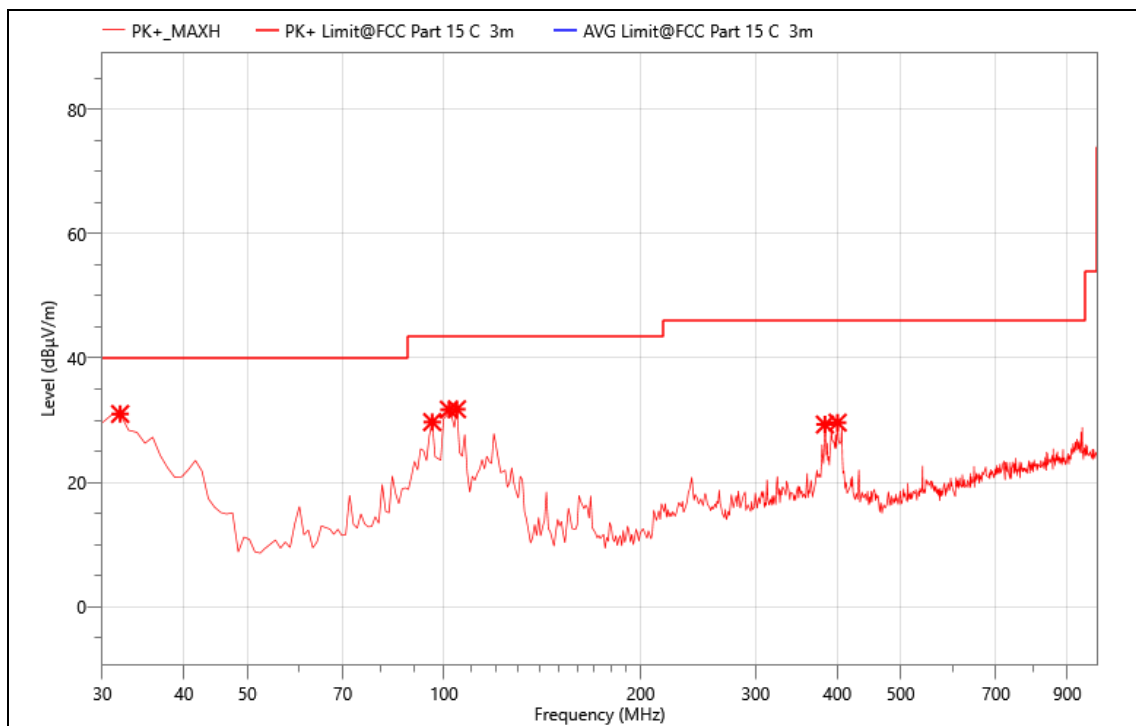
No.	Frequency (MHz)	Reading Level(dBuV)	Correct Factor(dB/m)	Measure-ment(dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector	Comment
1	0.1500	69.26	19.64	88.90	104.08	-15.18	peak	
2	0.2940	50.68	19.62	70.30	98.23	-27.93	peak	
3	0.3976	47.73	19.61	67.34	95.61	-28.27	peak	
4 *	0.7352	38.54	19.52	58.06	70.29	-12.23	peak	
5	5.4763	31.44	19.77	51.21	69.50	-18.29	peak	
6	16.3985	22.04	20.55	42.59	69.50	-26.91	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:	2400
Mode:	Wireless Charging(15W x 2)
Power:	AC 120V/60Hz
Note:	/
TE:	Vier
Date	2024/03/27
T/A/P	24.5°C/54%/101Kpa



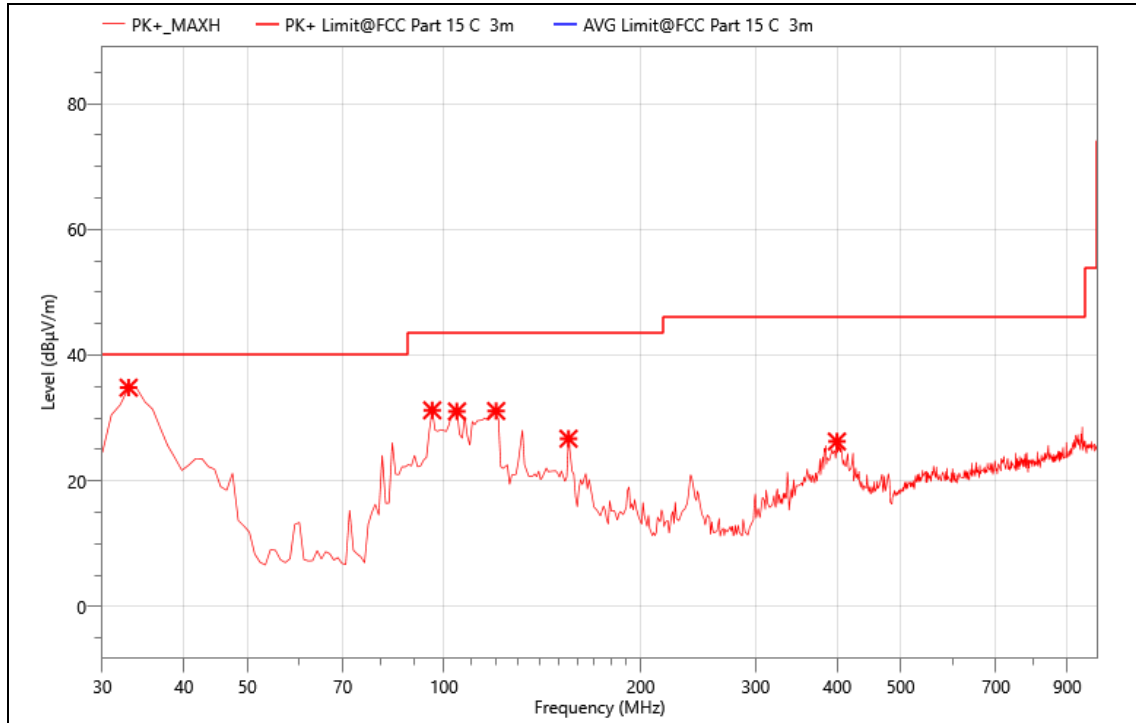
Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	31.940	46.33	-15.33	31.00	40.00	9.00	PK+	H
2	95.960	54.18	-24.49	29.69	43.50	13.81	PK+	H
3	101.780	55.48	-23.78	31.70	43.50	11.80	PK+	H
4	104.690	55.36	-23.6	31.76	43.50	11.74	PK+	H
5	383.080	44.01	-14.71	29.30	46.00	16.70	PK+	H
6	400.540	43.52	-13.92	29.60	46.00	16.40	PK+	H

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

EUT :	Portable Power Station
-------	------------------------

MN:	2400
Mode:	Wireless Charging(15W x 2)
Power:	AC 120V/60Hz
Note:	/
TE:	Vier
Date	2024/03/27
T/A/P	24.5°C/54%/101Kpa



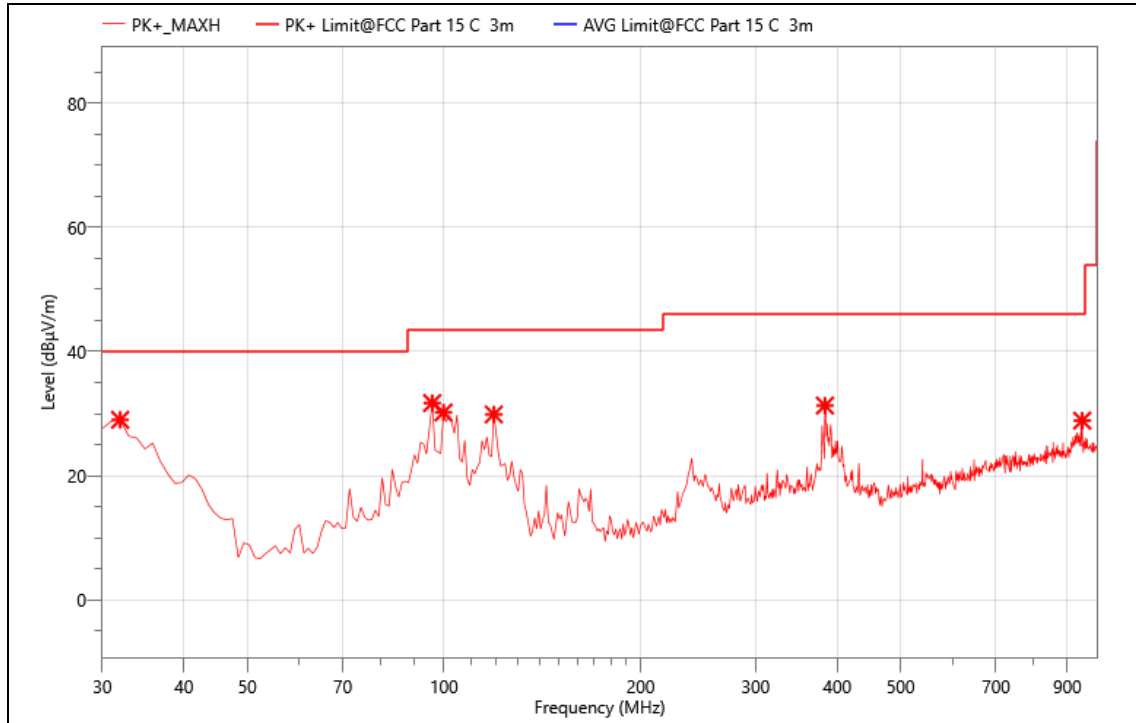
Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	32.910	50.74	-15.91	34.83	40.00	5.17	PK+	V
2	95.960	55.72	-24.49	31.23	43.50	12.27	PK+	V
3	104.690	54.65	-23.6	31.05	43.50	12.45	PK+	V
4	120.210	55.70	-24.59	31.11	43.50	12.39	PK+	V
5	155.130	48.14	-21.43	26.71	43.50	16.79	PK+	V
6	399.570	40.24	-13.97	26.27	46.00	19.73	PK+	V

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

EUT :	Portable Power Station
-------	------------------------

MN:	2000
Mode:	Wireless Charging(15W x 2)
Power:	AC 120V/60Hz
Note:	/
TE:	Vier
Date	2024/03/27
T/A/P	24.5°C/54%/101Kpa



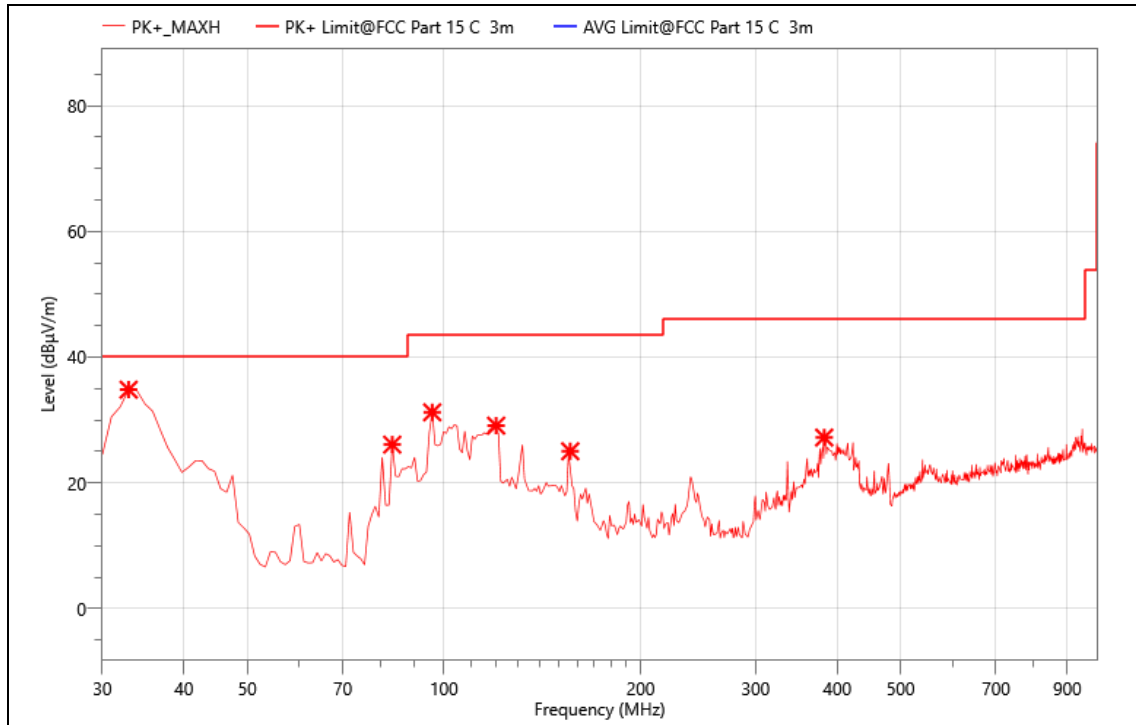
Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	31.940	44.33	-15.33	29.00	40.00	11.00	PK+	H
2	95.960	56.18	-24.49	31.69	43.50	11.81	PK+	H
3	99.840	54.15	-23.97	30.18	43.50	13.32	PK+	H
4	119.240	54.41	-24.54	29.87	43.50	13.63	PK+	H
5	383.080	46.01	-14.71	31.30	46.00	14.70	PK+	H
6	948.590	32.29	-3.42	28.87	46.00	17.13	PK+	H

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

EUT :	Portable Power Station
MN:	2000

Mode:	Wireless Charging(15W x 2)
Power:	AC 120V/60Hz
Note:	/
TE:	Vier
Date	2024/03/27
T/A/P	24.5°C/54%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	32.910	50.74	-15.91	34.83	40.00	5.17	PK+	V
2	83.350	51.68	-25.59	26.09	40.00	13.91	PK+	V
3	95.960	55.72	-24.49	31.23	43.50	12.27	PK+	V
4	120.210	53.70	-24.59	29.11	43.50	14.39	PK+	V
5	156.100	46.27	-21.24	25.03	43.50	18.47	PK+	V
6	382.110	42.00	-14.79	27.21	46.00	18.79	PK+	V

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

6.6 Radiated Measurement Photos

9kHz-30MHz

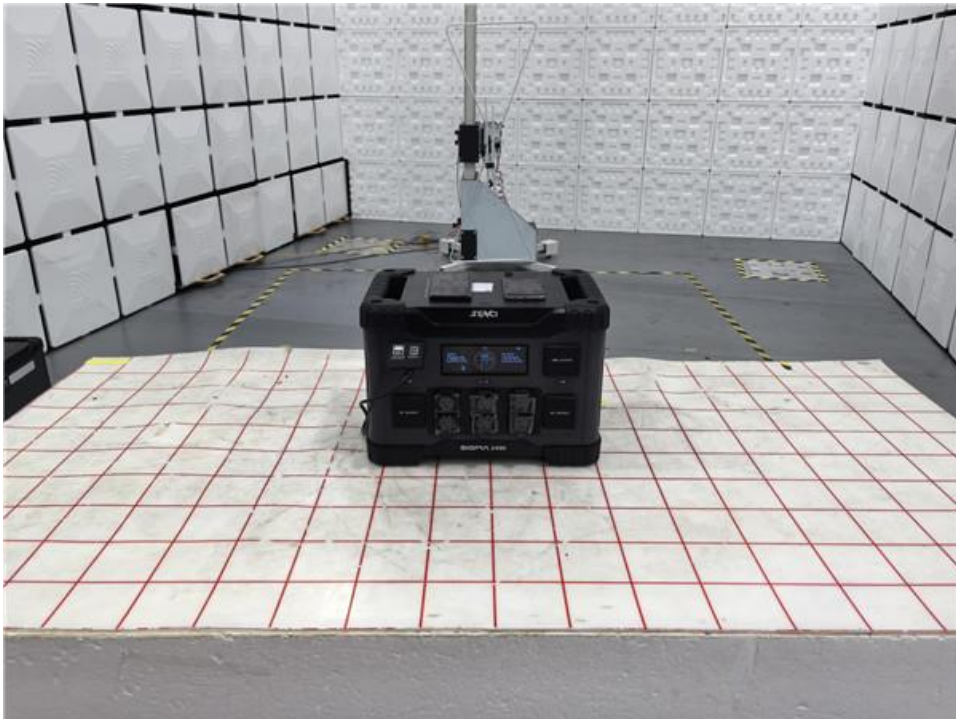


Model: 2400

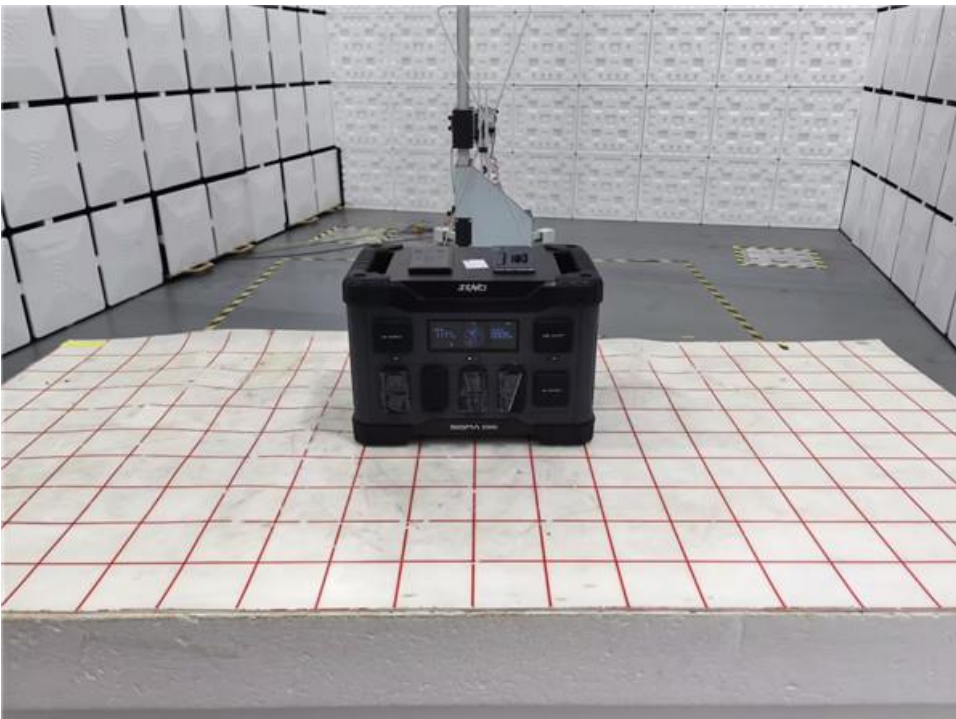


Model: 2000

30MHz-1GHz



Model: 2400



Model: 2000

7 20db Bandwidth

7.1 20dB Bandwidth Limit

None: for reporting purposed only.

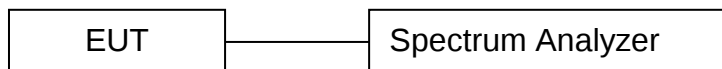
7.2 Test Instruments

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.

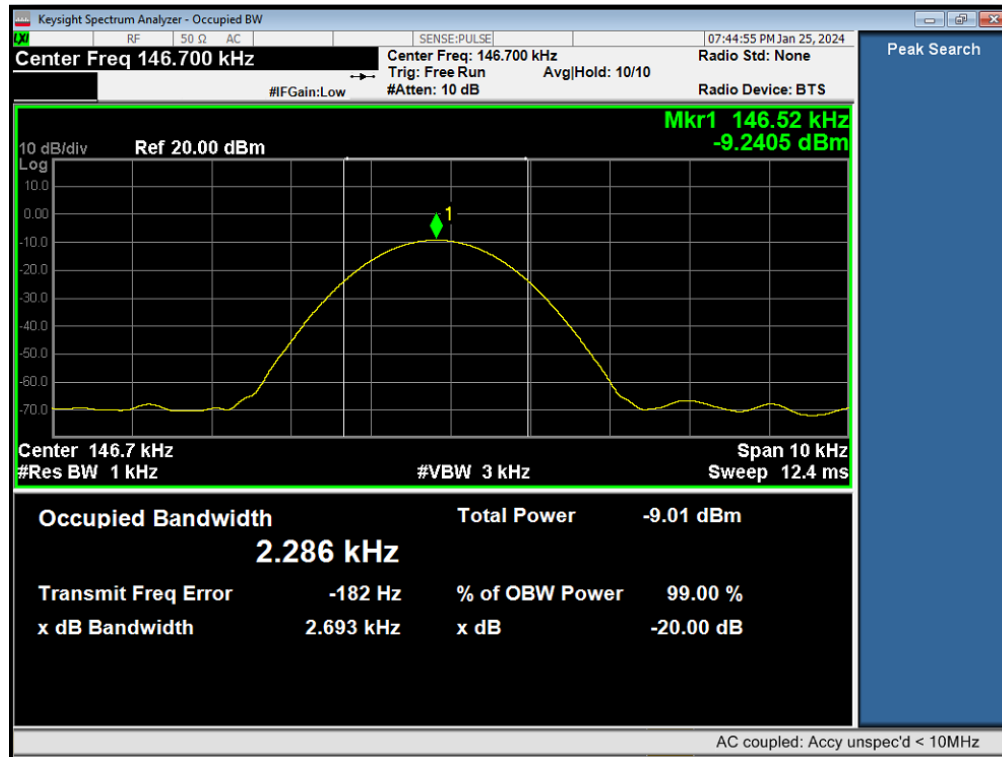
7.4 Test Setup



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

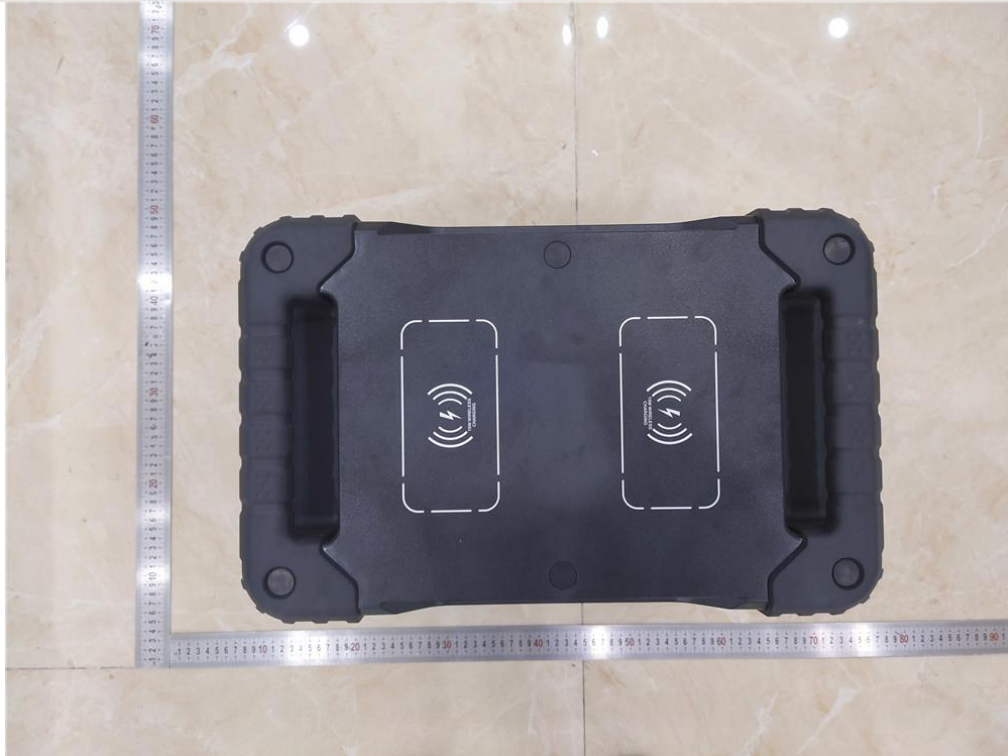
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

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



Model: 2400



Model: 2400



Model: 2400



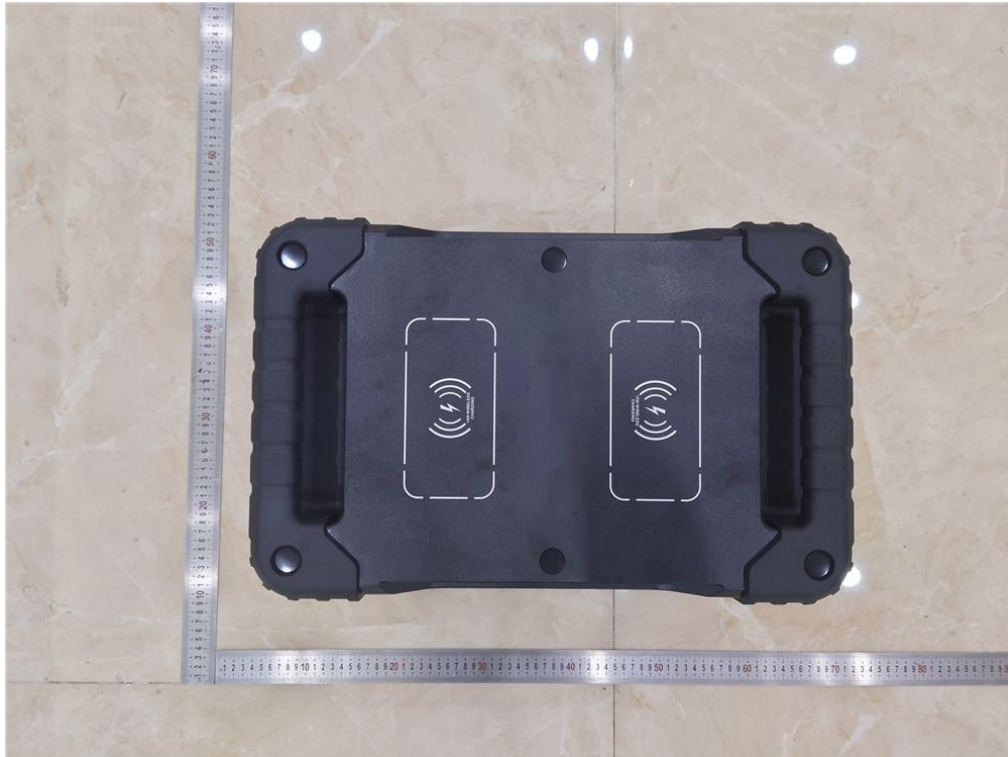
Model: 2400



Model: 2400



Model: 2400



Model: 2000



Model: 2000



Model: 2000



Model: 2000

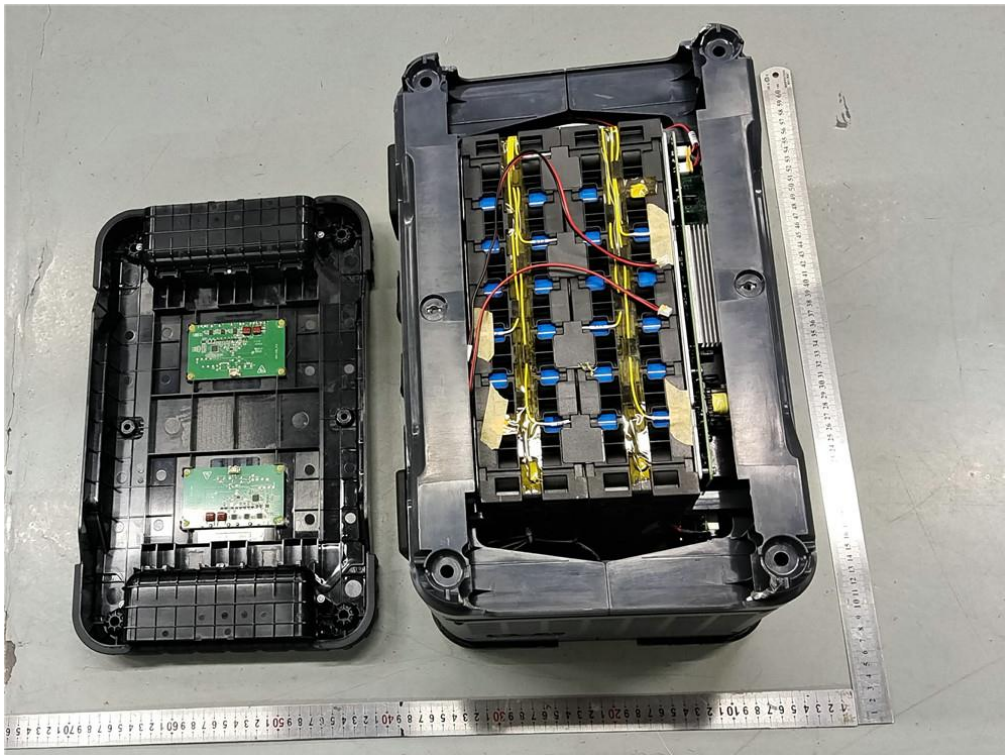


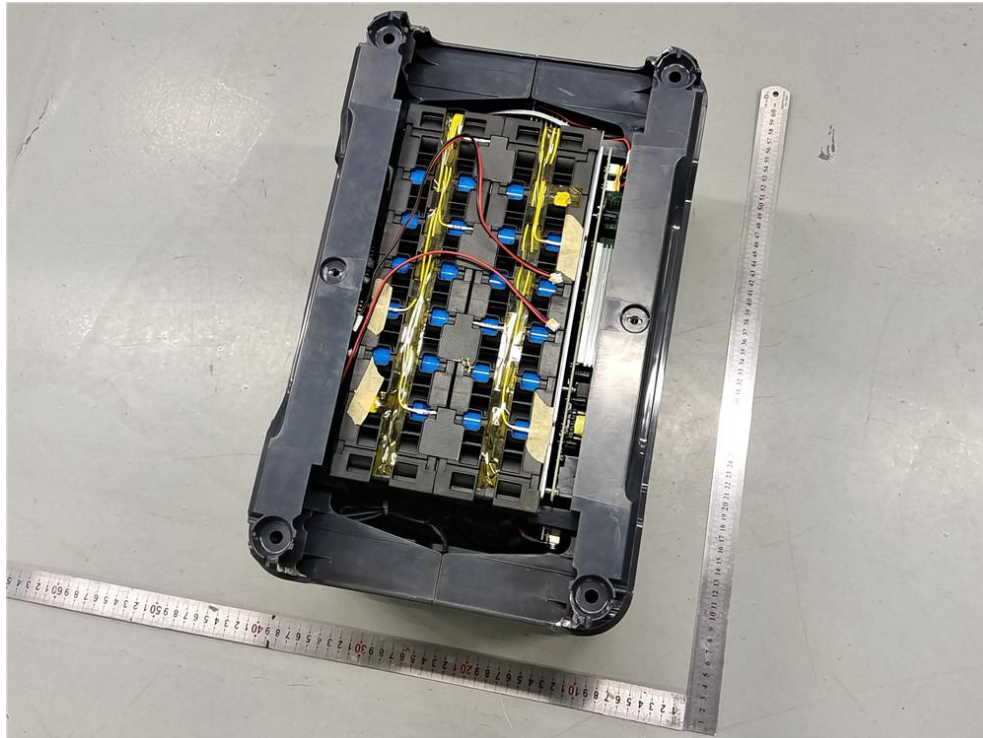
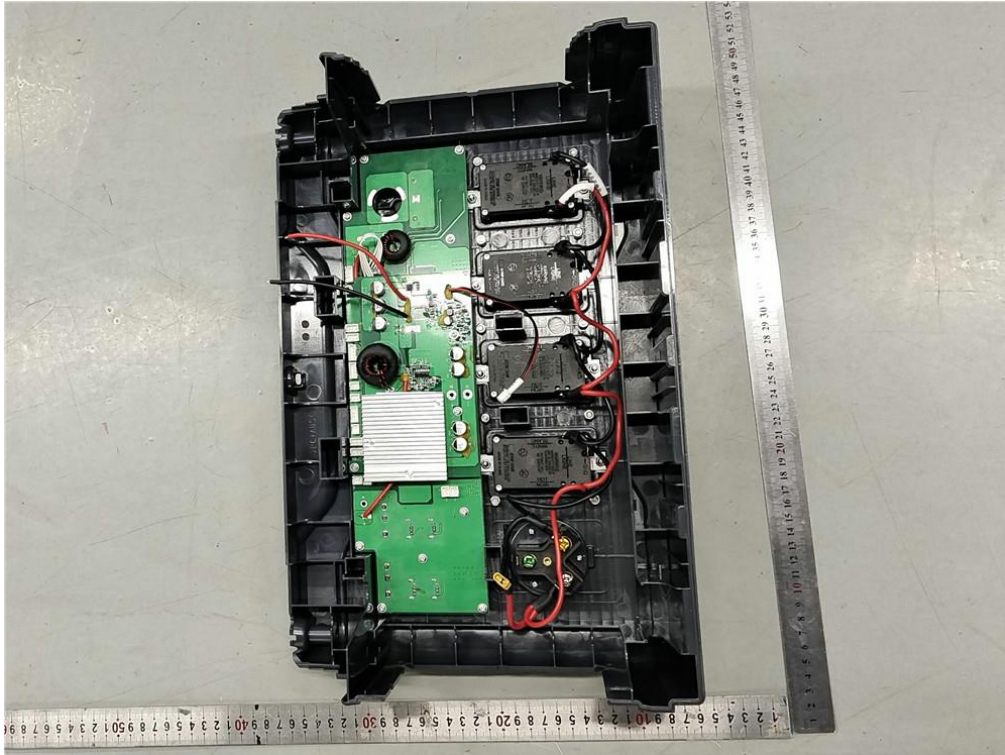
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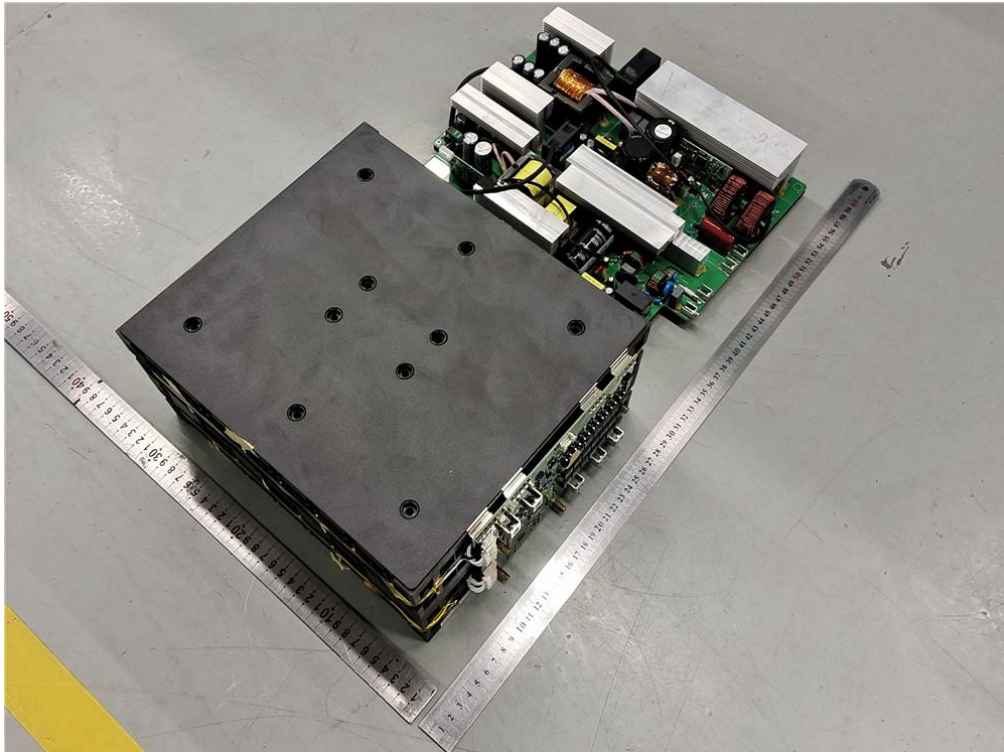
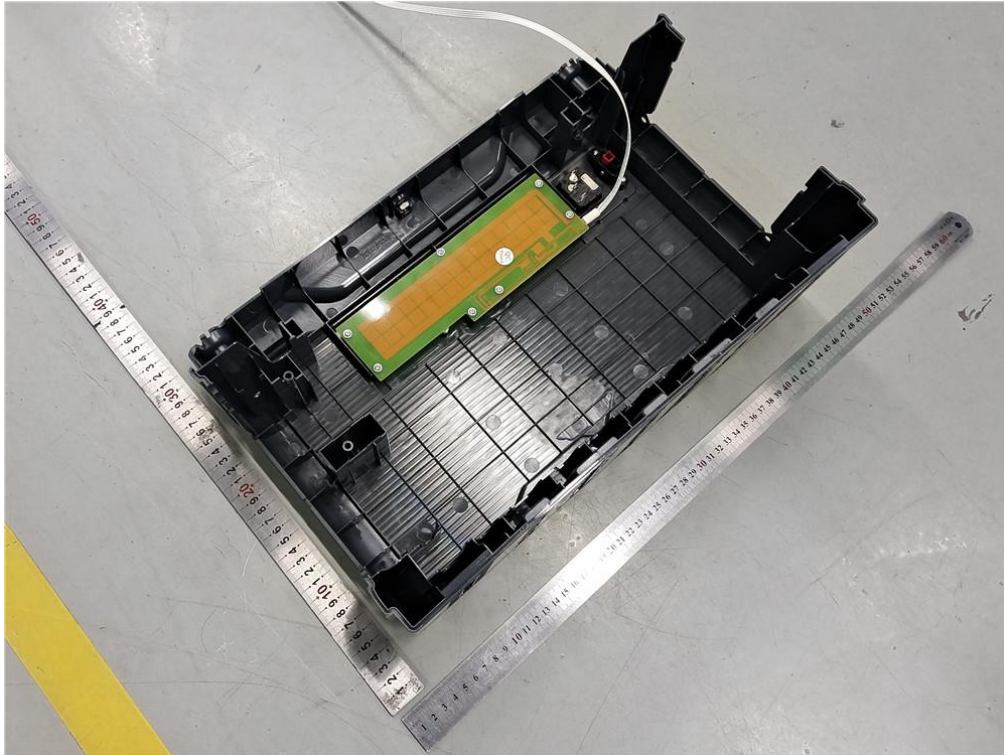


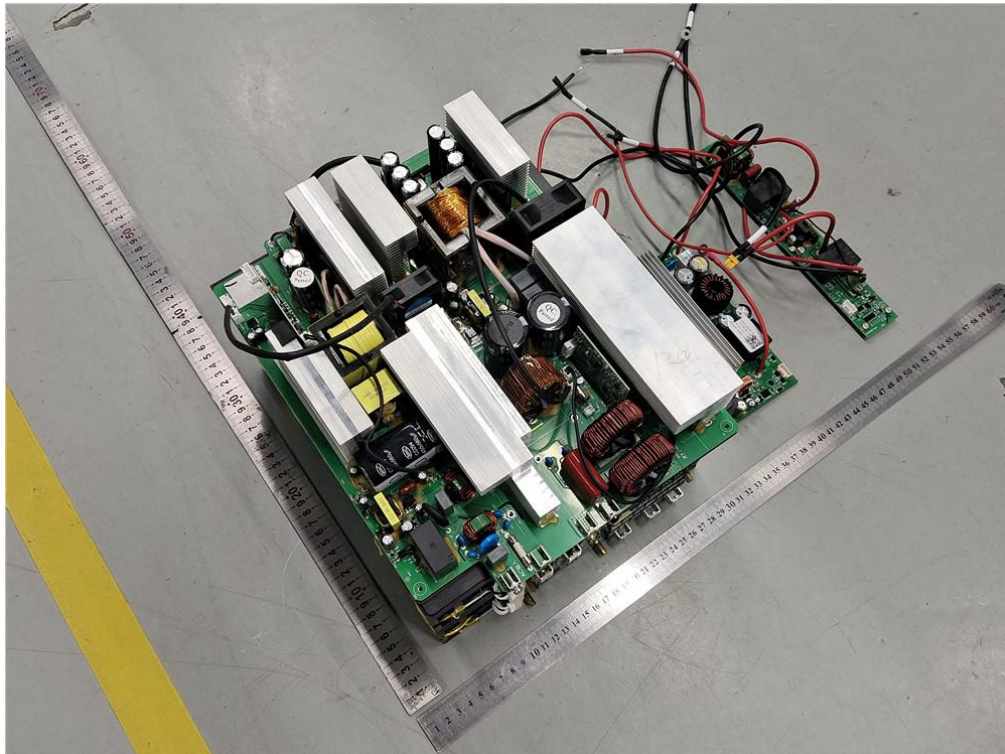
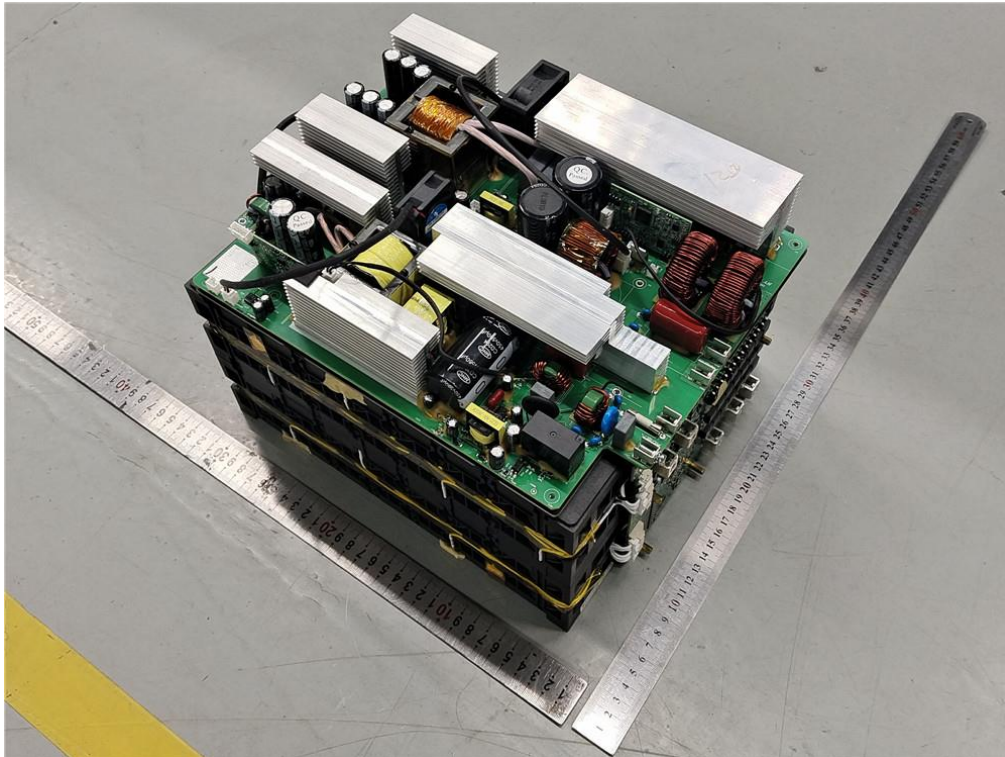
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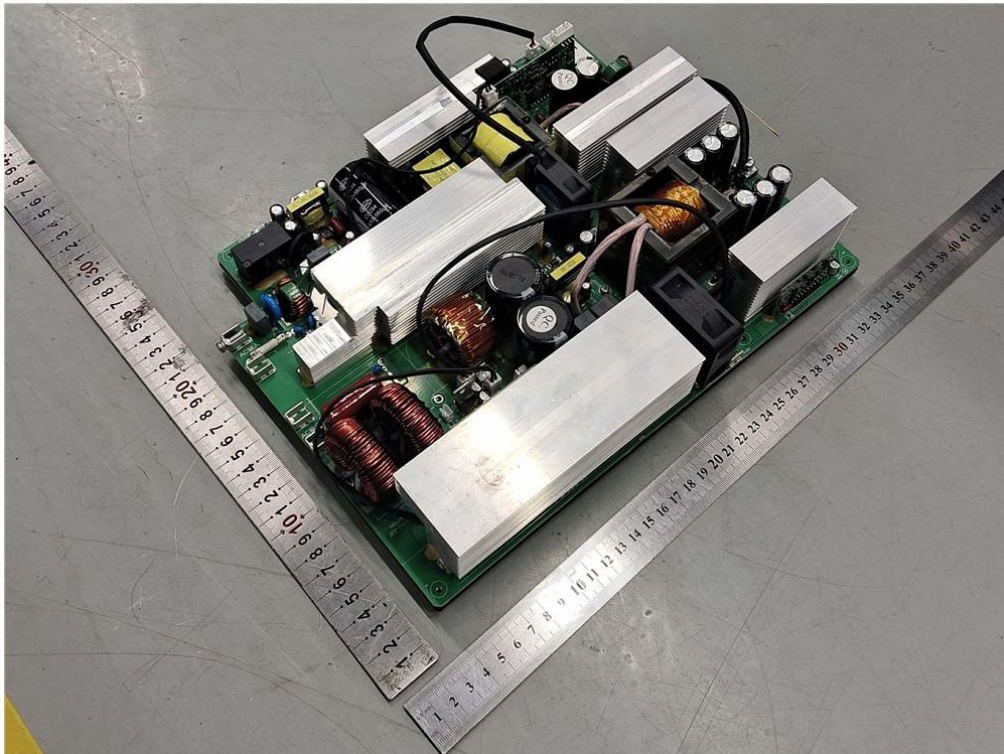
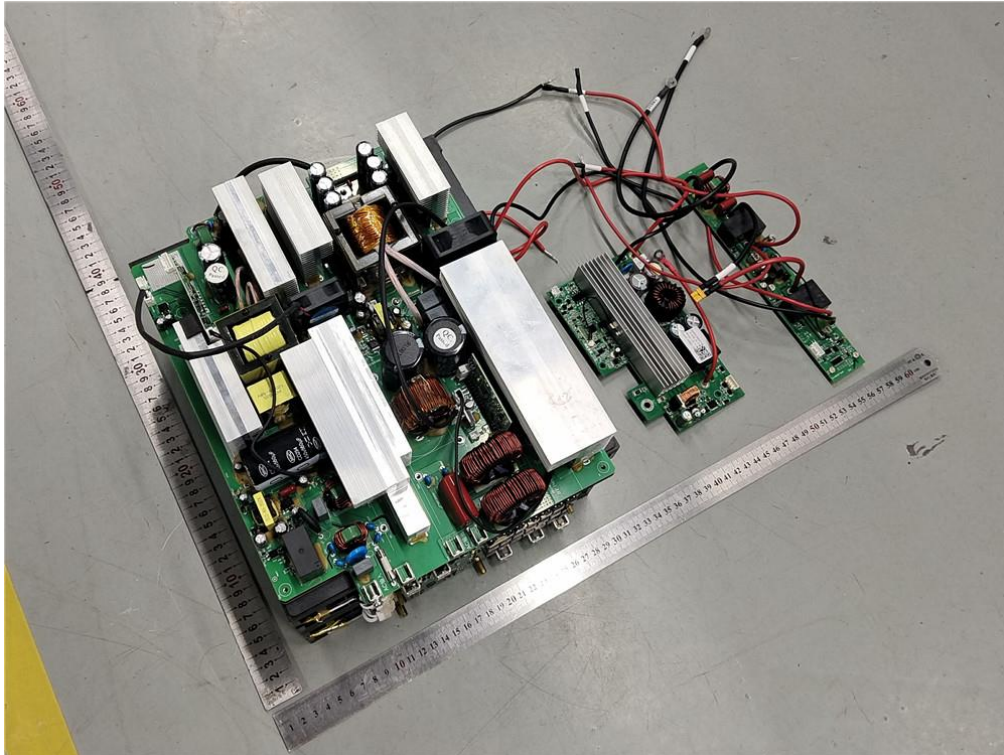
Internal

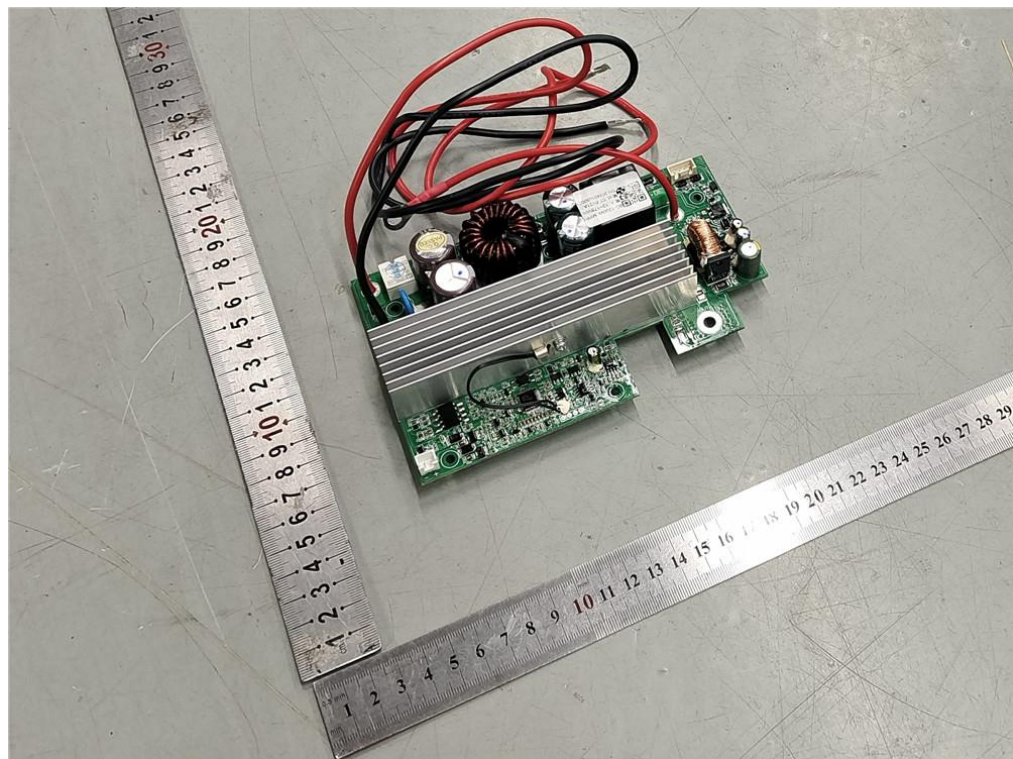
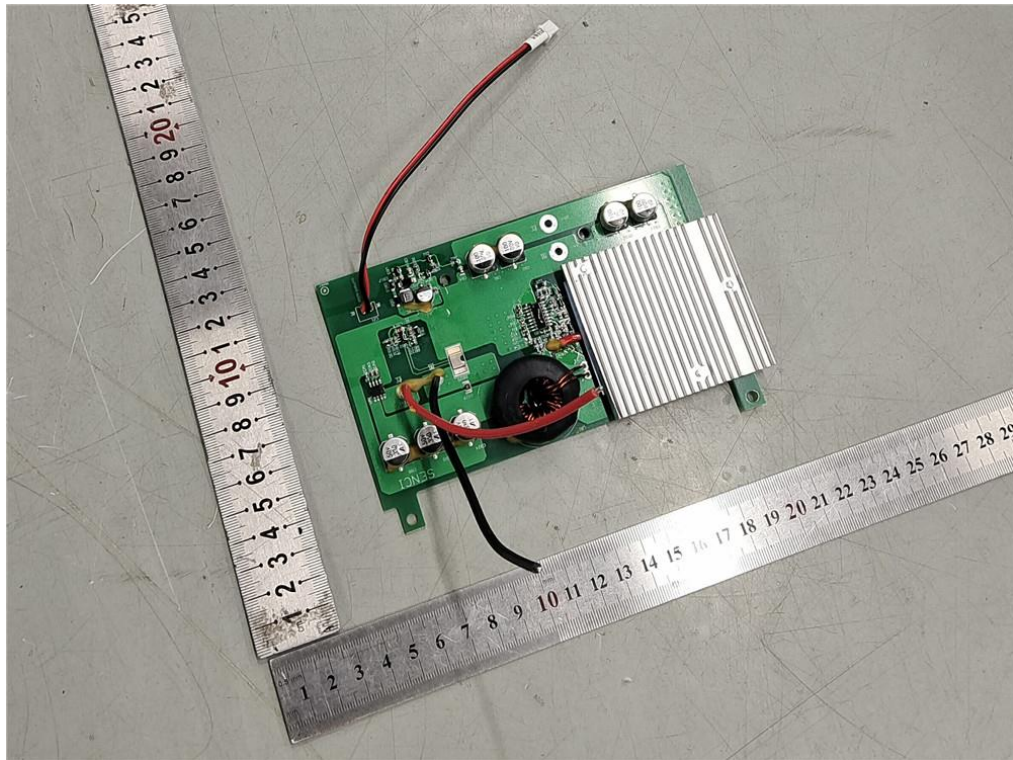


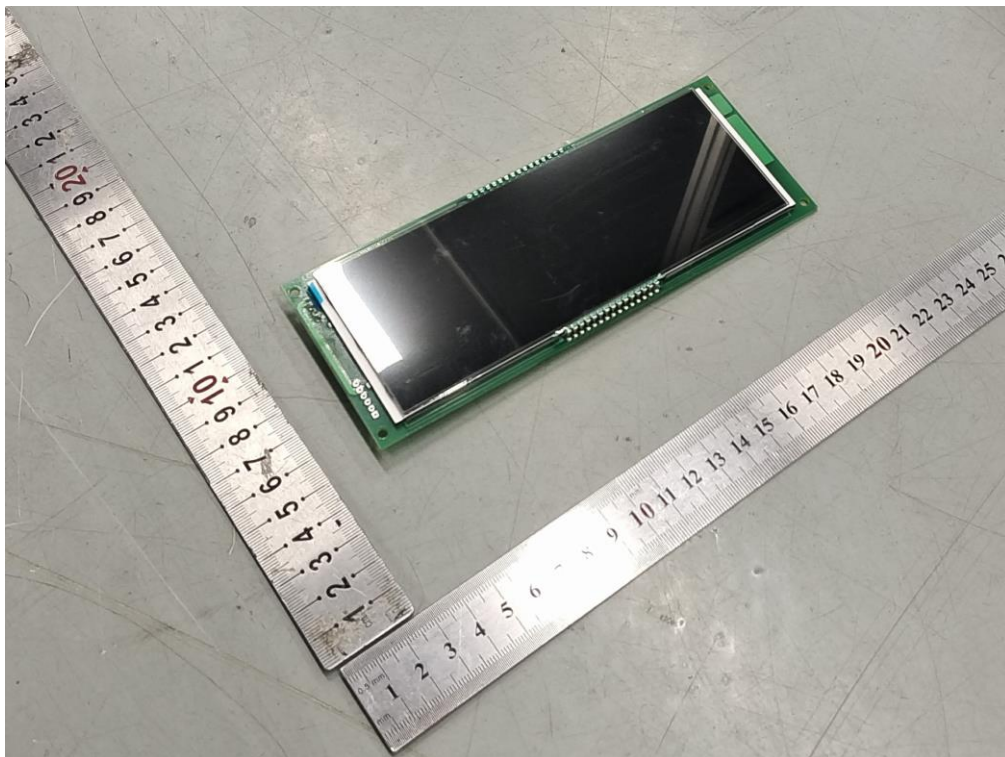
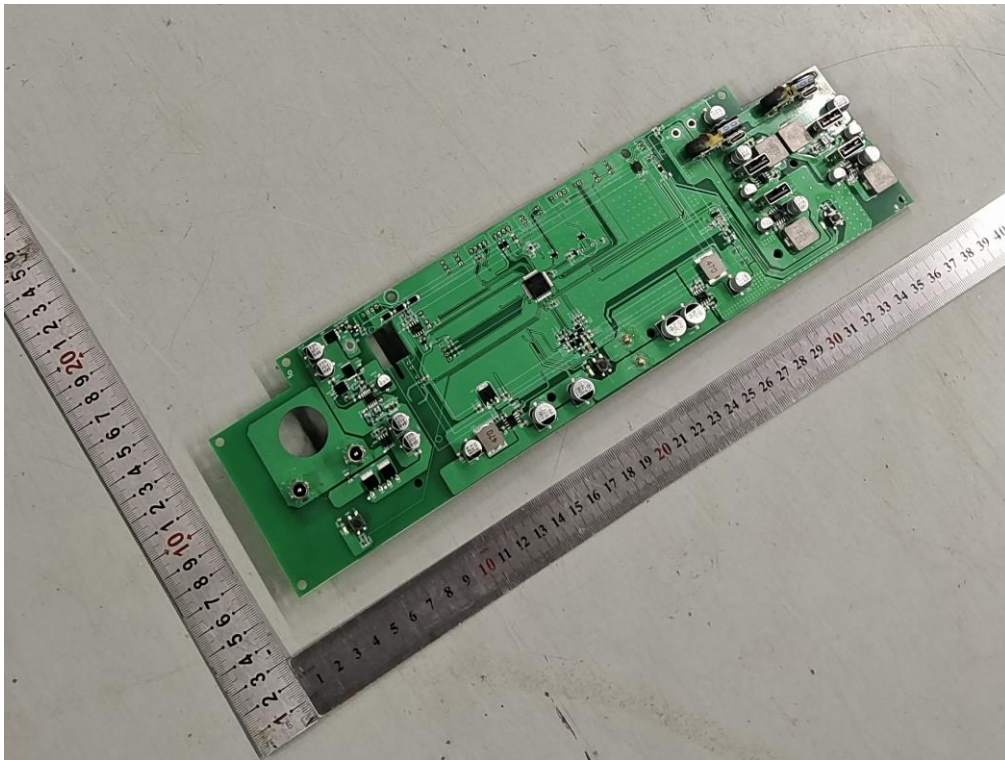


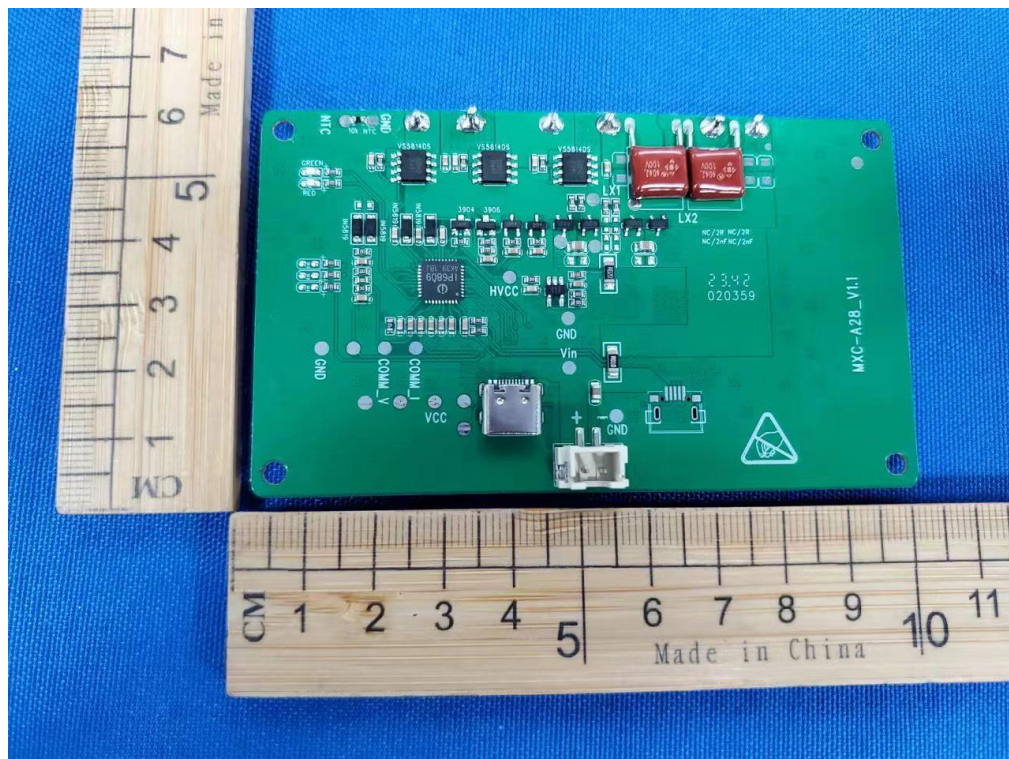
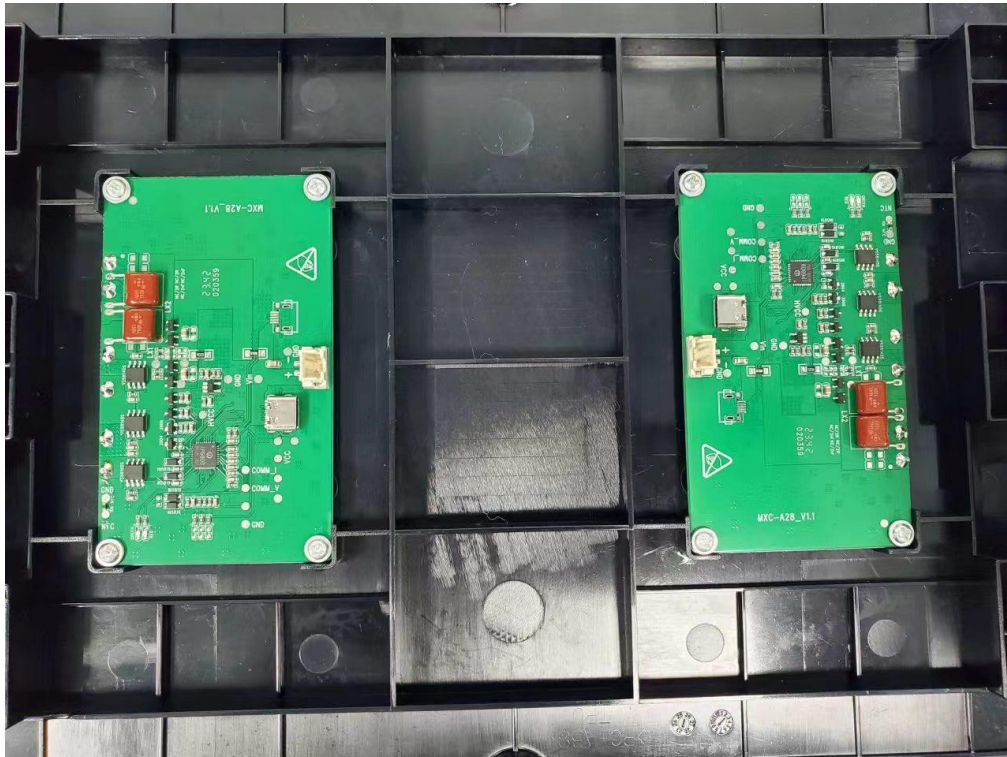


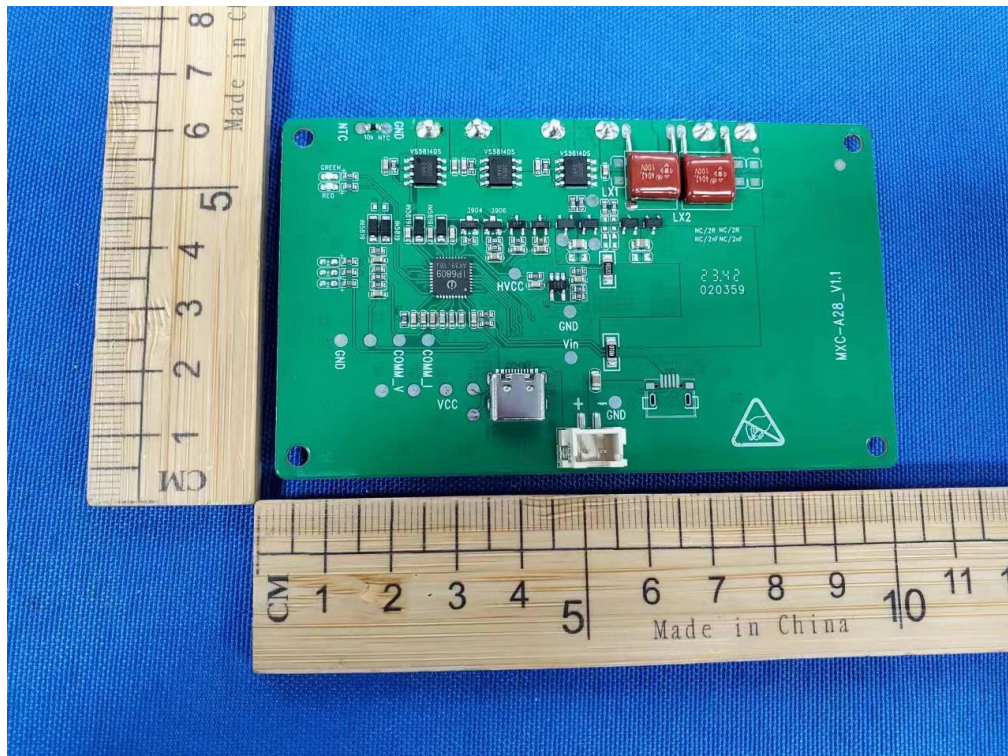
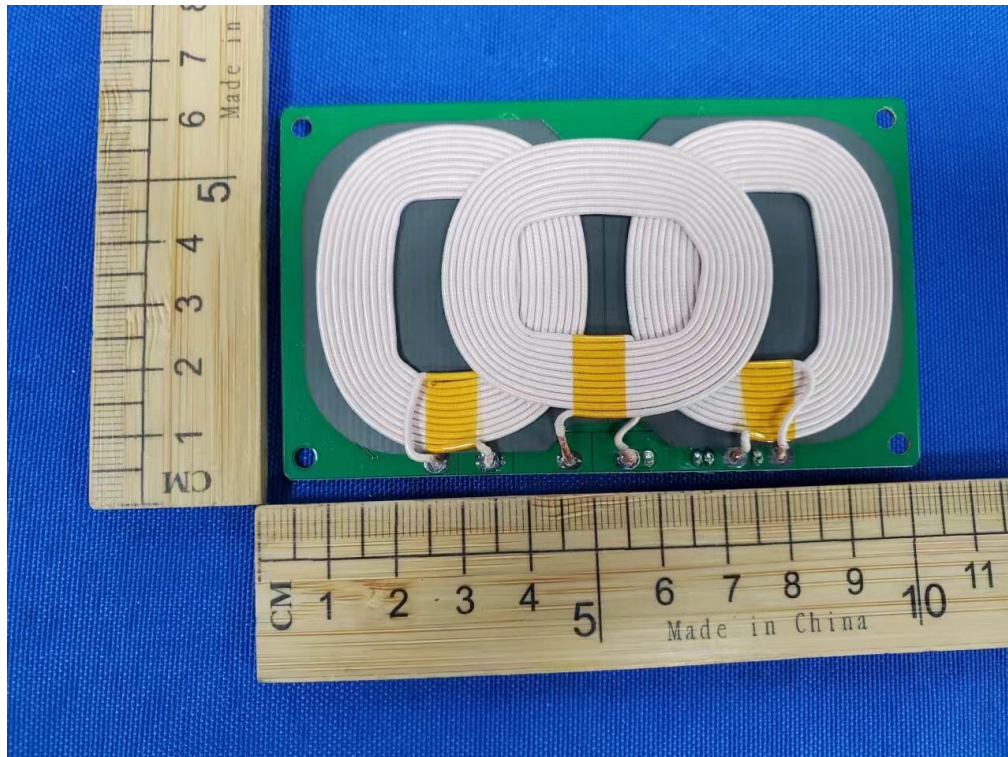


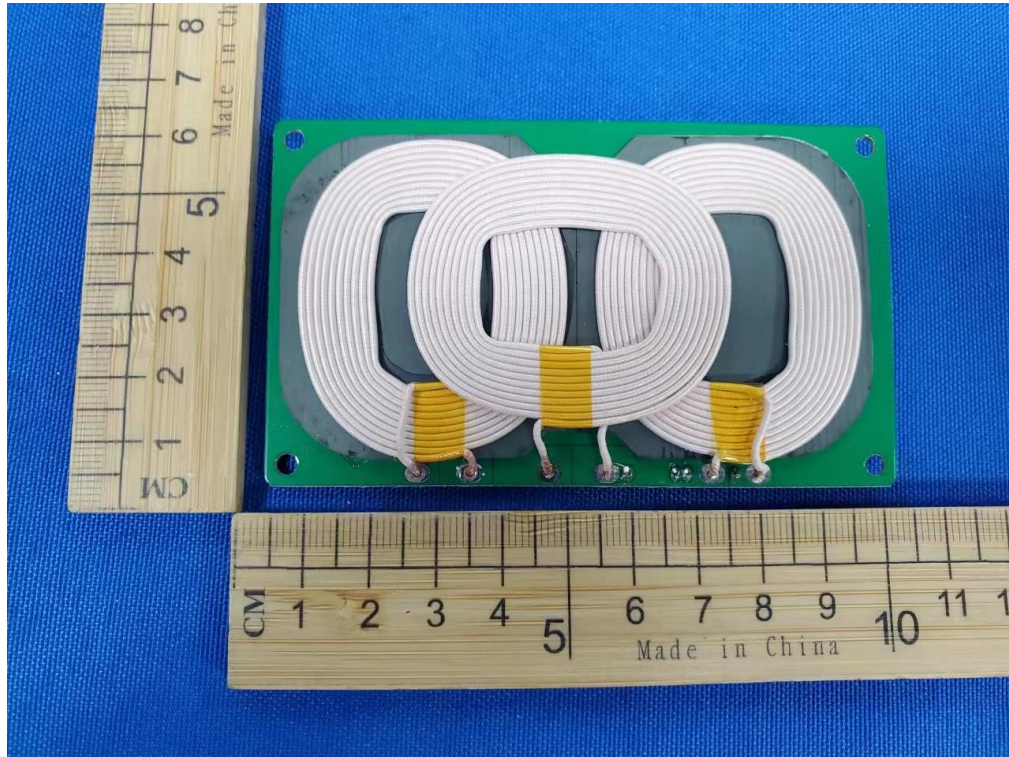












END OF REPORT