TEST REPORT

Report No. :	KS2301S0290E01
FCC ID :	2A9V5-S1800
Applicant :	TIANJIN CETC NEW ENERGY RESEARCH INSTITUTE Co.,LTD
Address :	No.6, 7th HuaKe Road,Hi-Tech, Binhai New Technology Industrial Area, Tianjin
Manufacturer :	TIANJIN CETC NEW ENERGY RESEARCH INSTITUTE Co.,LTD
Address :	No.6, 7th HuaKe Road,Hi-Tech, Binhai New Technology Industrial Area, Tianjin
Product Name :	Portable Power Station
Trademark :	Lantian Intelligent Power
Model/Type reference :	S1800, S1800W
Standard :	47 CFR Part 15.209
Date of Receipt :	January 11, 2023
Date of Test Date :	January 11, 2023 to March 24, 2023
Date of issue :	March 24, 2023
Test result :	**Pass**

Prepared by: (Printed name + Signature)	Pai Zheng	Pai Zheng
Approved by: (Printed name + Signature)	Sky Dong	Sky Dong

Testing Laboratory Name...:	**KSIGN(Guangdong) Testing Co., Ltd.**
Address :	West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

47 CFR Part 15.209: Radiated emission limits; general requirements

1.2. Report Version

Revised No.	Date of issue	Description
01	March 24, 2023	Original

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1.3. Test Description

Test Item	Standard	Requirement	Result
Antenna requirement	47 CFR Part 15.209	Part 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15.209	47 CFR 15.207(a)	Pass
Emissions in restricted frequency bands (below 30MHz)	47 CFR Part 15.209	47 CFR 15.209	Pass
Emissions in restricted frequency bands (30MHz - 1GHz)	47 CFR Part 15.209	47 CFR 15.209	Pass

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1.4. Test Facility

KSIGN(Guangdong) Testing Co., Ltd.
West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu,Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

The test facility is recognized, certified, or accredited by the following organizations:
CNAS-Lab Code: L13261
KSIGN(Guangdong) Testing Co., Ltd. has been assessed and proved to be in Compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.
A2LA-Lab Cert. No.: 5457.01
KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirementsfor the Competence of Testing and Calibration Laboratories and any additional program requirements in the
identified field of testing
ISED#: 25693 CAB identifier.: CN0096
KSIGN(Guangdong) Testing Co., Ltd. has been listed by Innovation, Science and Economic Development Canada to perform electromagnetic emission measurement.
FCC-Registration No.: 294912 Designation Number: CN1328
KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

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1.5. Measurement Uncertainty

Test Items	Measurement Uncertainty
Conducted Emission (150k-30MHz)	± 3.34dB
RSE (30-1000MHz)	± 5.7dB

The reported uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

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2. GENERAL INFORMATION

2.1. General Description Of EUT

Test Sample Number:	1-1(Normal Sample), 1-2(Engineering Sample)
Product Name:	Portable Power Station
Trademark:	Lantian Intelligent Power
Model / Type reference:	S1800, S1800W
Model Difference:	The product model is named according to the market demand. The difference between models is that the model name is different. Other power supply modes, internal structures, circuits and key components are the same, which will not affect the safety and electromagnetic compatibility performance.
Power Supply:	Input: AC 100-240V~50/60Hz 5.0A Output: 30.0V⎓12.0A 360W Battery: DC 25.6V, 50Ah(1280Wh) Wireless Charging Output(×2): 15W
Power Adaptor:	Model: KT360A3001200B3 Input: 100-240V~50/60Hz 5.0A Output: 30.0V⎓12.0A 360W
Operation Frequency:	115KHz - 205KHz
Number of Channels:	1
Modulation Type:	ASK
Antenna Type:	Loop coil antenna
Antenna Gain:	0 dBi
Note: For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.	

2.2. Accessory Equipment Information

Title	Manufacturer	Model No.	Serial No.
Wireless charging load	YBZ	N/A	N/A
Wireless charging load	EESON	2S	N/A

2.3. Description of Test Modes

No.	Title	Description of Mode
Test Mode1	Two Coil wireless simultaneous charging mode(Full load)	N/A
Test Mode2	Two Coil wireless simultaneous charging mode(Null load)	N/A
Test Mode3	Coil 1-Wireless charging mode(Full load)	N/A
Test Mode4	Coil 1-Wireless charging mode(Null load)	N/A
Test Mode5	Coil 2-Wireless charging mode(Full load)	N/A
Test Mode6	Coil 2-Wireless charging mode(Null load)	N/A
Note: All test modes were pre-tested, The Mode 1 was the worst case and only the data of the worst case record in this report.		

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2.4. Measurement Instruments List

Conducted Emission at AC power line				
Test Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
LISN	R&S	ENV432	1326.6105.02	2024-02-17
EMI Test Receiver	R&S	ESR	102524	2024-02-17
Manual RF Switch	JS TOYO	/	MSW-01/002	2024-02-17
ISN CAT6	Schwarzbeck	CAT5 8158	227	2024-02-17
Color Signal Generator	Philips	PM5418	672926	2024-02-17
Power Absorbing Clamp	R&S	MDS-21	100925	2024-02-19

Emissions in restricted frequency bands (below 30MHz)				
Test Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
Color Signal Generator	Philips	PM5418	672926	2024-02-17
Ultra-Broadband logarithmic period Antenna	Schwarzbeck	VULB 9163	1230	2025-02-18
Pre-Amplifier	Schwarzbeck	BBV 9745	9745#129	2024-02-17
Broadcast Television Signal Generator	R&S	SFE100	141038	2024-02-17
Analog Signal Generator	Agilent	8648A	3847M00445	2024-02-17
EMI Test Receiver	R&S	ESR	102525	2024-02-17
Loop Antenna	Beijin ZHINAN	ZN30900C	18050	2024-02-19
Horn Antenna	Schwarzbeck	BBHA 9120 D	2023	2026-02-19
Pre-Amplifier	EMCI	EMC051835SE	980662	2024-02-17
Spectrum Analyzer	Keysight	N9020A	MY46471971	2024-02-17

Emissions in restricted frequency bands (30MHz - 1GHz)				
Test Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
Color Signal Generator	Philips	PM5418	672926	2024-02-17
Ultra-Broadband logarithmic period Antenna	Schwarzbeck	VULB 9163	1230	2025-02-18
Pre-Amplifier	Schwarzbeck	BBV 9745	9745#129	2024-02-17
Broadcast Television Signal Generator	R&S	SFE100	141038	2024-02-17
Analog Signal Generator	Agilent	8648A	3847M00445	2024-02-17
EMI Test Receiver	R&S	ESR	102525	2024-02-17
Loop Antenna	Beijin ZHINAN	ZN30900C	18050	2024-02-19
Horn Antenna	Schwarzbeck	BBHA 9120 D	2023	2026-02-19
Pre-Amplifier	EMCI	EMC051835SE	980662	2024-02-17
Spectrum Analyzer	Keysight	N9020A	MY46471971	2024-02-17

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3. Evaluation Results (Evaluation)

3.1. Antenna requirement

Test Requirement:	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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.1.1. Antenna Information:

The antenna used in this product is a Coil Antenna.

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4. Radio Spectrum Matter Test Results (RF)

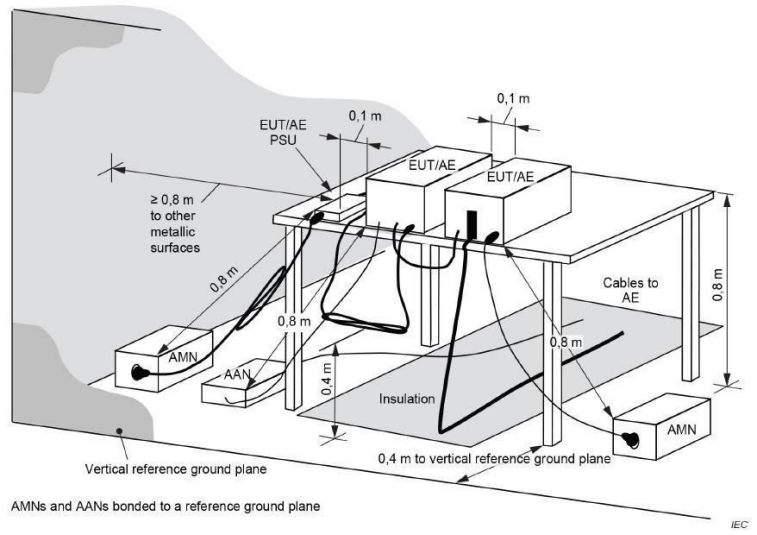
4.1. Conducted Emission at AC power line

Test Requirement:	Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN).
Test Limit:	Frequency of emission (MHz) / Conducted limit (dBμV): Quasi-peak / Average 0.15-0.5: 66 to 56* / 56 to 46* 0.5-5: 56 / 46 5-30: 60 / 50 *Decreases with the logarithm of the frequency.
Test Method:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices

4.1.1. E.U.T. Operation:

Operating Environment:	
Temperature:	25 °C
Humidity:	43.4 %
Atmospheric Pressure:	102 kPa
Final test mode:	Test Mode1, Test Mode2, Test Mode3, Test Mode4, Test Mode5, Test Mode6

4.1.2. Test Setup Diagram:



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4.1.3. Test Data:

Note:

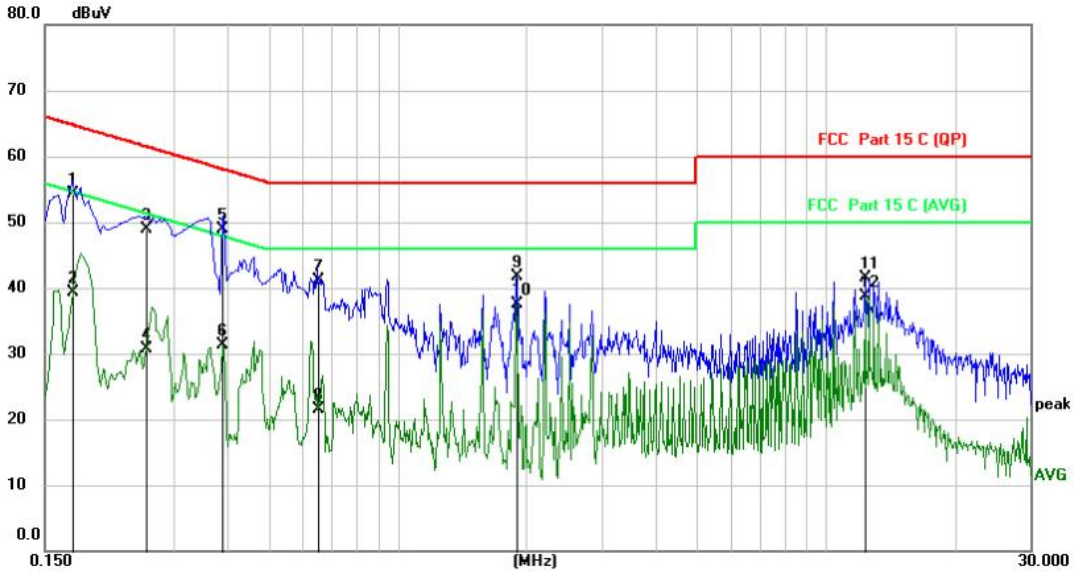
1).QP Value (dBμV)= QP Reading (dBμV)+ Factor (dB)

2). Factor (dB)=insertion loss of LISN (dB) + Cable loss (dB)

3). QPMargin(dB) = QP Limit (dBμV) - QP Value (dBμV)

4). AVMargin(dB) = AV Limit (dBμV) - AV Value (dBμV)

Test Mode1 / Line: Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1740	43.56	10.73	54.29	64.77	-10.48	QP	
2		0.1740	28.58	10.73	39.31	54.77	-15.46	AVG	
3		0.2587	38.19	10.69	48.88	61.47	-12.59	QP	
4		0.2587	20.01	10.69	30.70	51.47	-20.77	AVG	
5		0.3899	38.36	10.54	48.90	58.07	-9.17	QP	
6		0.3899	20.70	10.54	31.24	48.07	-16.83	AVG	
7		0.6540	30.70	10.46	41.16	56.00	-14.84	QP	
8		0.6540	11.11	10.46	21.57	46.00	-24.43	AVG	
9		1.8940	31.12	10.54	41.66	56.00	-14.34	QP	
10	*	1.8940	26.98	10.54	37.52	46.00	-8.48	AVG	
11		12.3258	30.89	10.69	41.58	60.00	-18.42	QP	
12		12.3258	27.96	10.69	38.65	50.00	-11.35	AVG	

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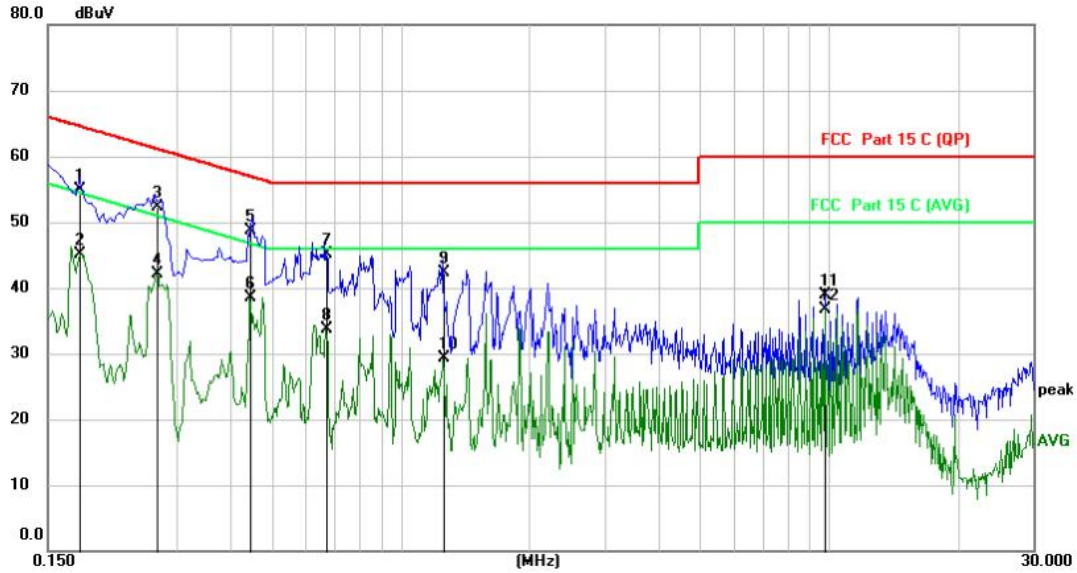
Test Mode1 / Line: Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1785	44.14	10.74	54.88	64.56	-9.68	QP	
2		0.1785	34.32	10.74	45.06	54.56	-9.50	AVG	
3		0.2700	41.73	10.63	52.36	61.12	-8.76	QP	
4		0.2700	31.52	10.63	42.15	51.12	-8.97	AVG	
5	*	0.4460	38.21	10.52	48.73	56.95	-8.22	QP	
6		0.4460	27.99	10.52	38.51	46.95	-8.44	AVG	
7		0.6700	34.66	10.44	45.10	56.00	-10.90	QP	
8		0.6700	23.25	10.44	33.69	46.00	-12.31	AVG	
9		1.2620	31.78	10.48	42.26	56.00	-13.74	QP	
10		1.2620	18.73	10.48	29.21	46.00	-16.79	AVG	
11		9.7939	28.26	10.59	38.85	60.00	-21.15	QP	
12		9.7939	26.14	10.59	36.73	50.00	-13.27	AVG	

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4.2. Emissions in restricted frequency bands (below 30MHz)

<table>
<tr><td>Test Requirement:</td><td>47 CFR 15.209</td></tr>
<tr><td>Test Limit:</td><td>
<table>
<tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr>
<tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr>
<tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr>
<tr><td>1.705-30.0</td><td>30</td><td>30</td></tr>
<tr><td>30-88</td><td>100 **</td><td>3</td></tr>
<tr><td>88-216</td><td>150 **</td><td>3</td></tr>
<tr><td>216-960</td><td>200 **</td><td>3</td></tr>
<tr><td>Above 960</td><td>500</td><td>3</td></tr>
</table>
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g.,
§§ 15.231 and 15.241.

As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a)and (b)of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b)of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.
</td></tr>
<tr><td>Test Method:</td><td>Radiated emissions tests</td></tr>
<tr><td>Procedure:</td><td>ANSI C63.10-2013 section 6.6.4</td></tr>
</table>

4.2.1. E.U.T. Operation:

Operating Environment:	
Temperature:	23.2 °C
Humidity:	52.1 %
Atmospheric Pressure:	102 kPa
Final test mode:	Test Mode1, Test Mode2, Test Mode3, Test Mode4, Test Mode5, Test Mode6

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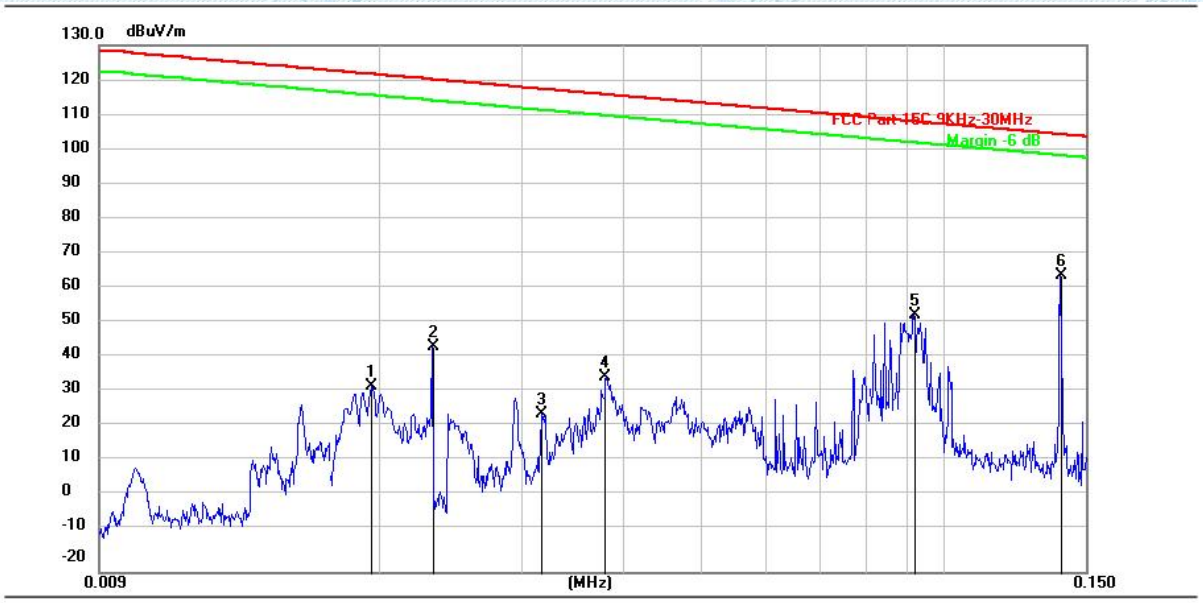
4.2.2. Test Data:

Note:

Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor

Test Mode1 / Face / 9KHz-150KHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		0.0196	42.04	-9.05	32.99	121.76	-88.77	peak
2		0.0233	53.25	-9.03	44.22	120.26	-76.04	peak
3		0.0318	34.35	-8.98	25.37	117.56	-92.19	peak
4		0.0381	44.59	-8.92	35.67	115.99	-80.32	peak
5		0.0920	62.23	-8.90	53.33	108.33	-55.00	peak
6	*	0.1396	74.03	-9.53	64.50	104.71	-40.21	peak

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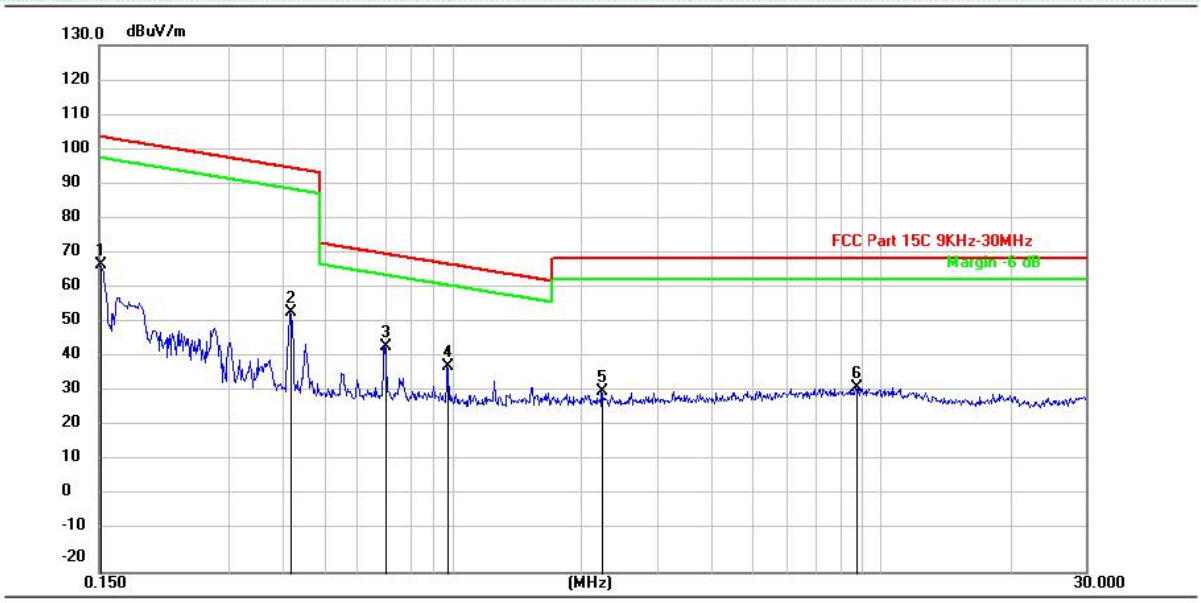
Test Mode1 / Face / 150KHz-30MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		0.1512	76.78	-9.33	67.45	104.01	-36.56	peak
2		0.4186	63.24	-9.25	53.99	95.17	-41.18	peak
3	*	0.6980	53.55	-9.17	44.38	70.73	-26.35	peak
4		0.9761	47.85	-9.10	38.75	67.81	-29.06	peak
5		2.2356	40.91	-9.29	31.62	69.54	-37.92	peak
6		8.7061	41.79	-9.23	32.56	69.54	-36.98	peak

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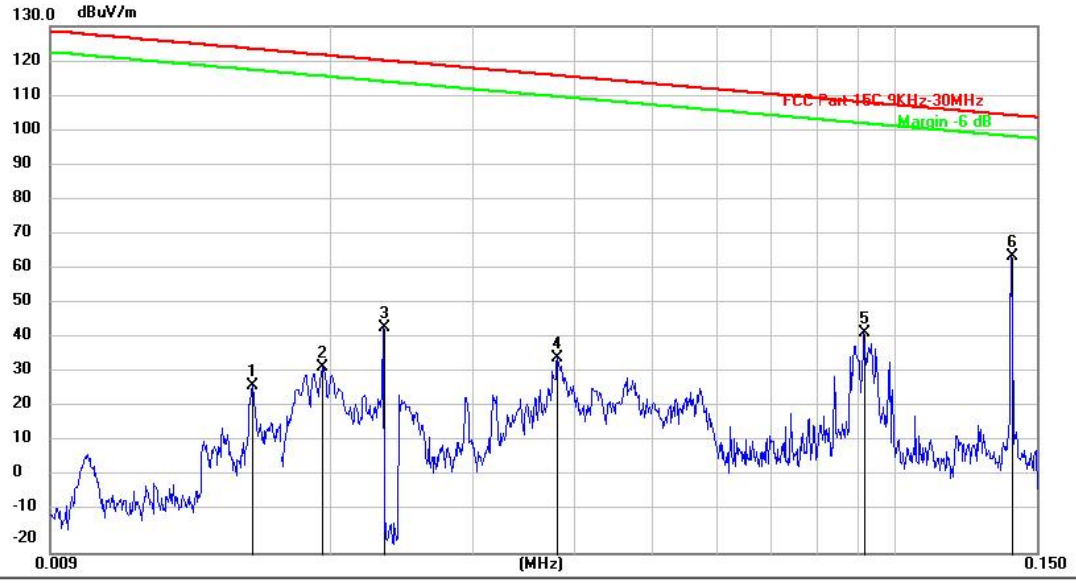
Test Mode1 / Side / 9KHz-150KHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		0.0160	36.89	-9.07	27.82	123.52	-95.70	peak
2		0.0196	42.04	-9.05	32.99	121.76	-88.77	peak
3		0.0233	53.25	-9.03	44.22	120.26	-76.04	peak
4		0.0382	44.59	-8.92	35.67	115.96	-80.29	peak
5		0.0919	51.55	-8.90	42.65	108.34	-65.69	peak
6	*	0.1396	74.03	-9.53	64.50	104.71	-40.21	peak

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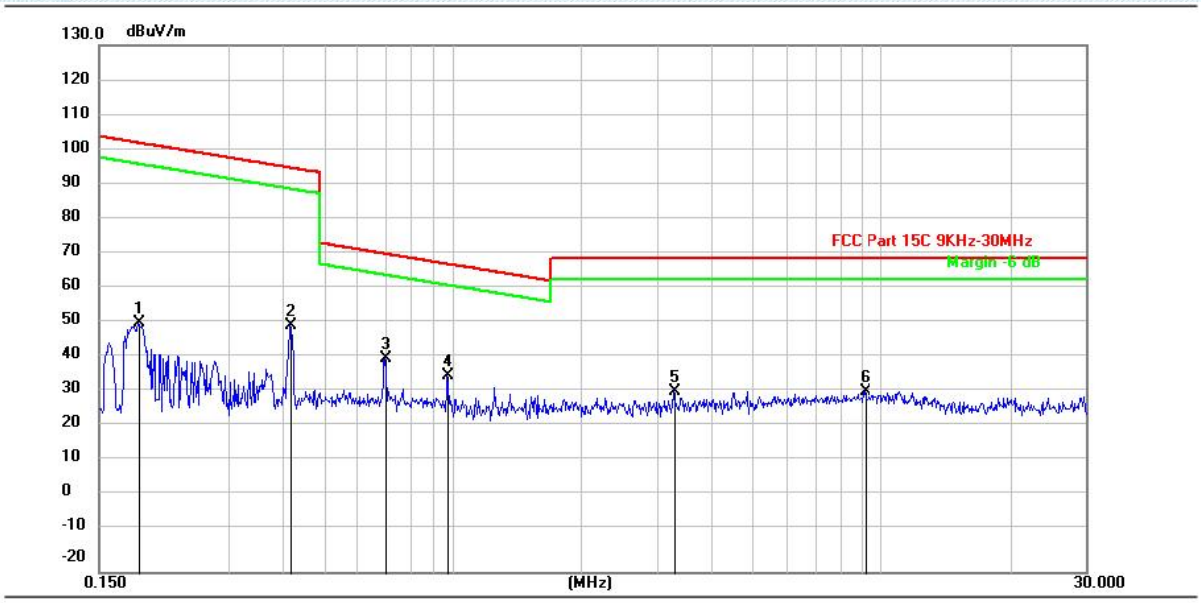
Test Mode1 / Side / 150KHz-30MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		0.1848	60.24	-9.32	50.92	102.27	-51.35	peak
2		0.4184	59.45	-9.25	50.20	95.17	-44.97	peak
3	*	0.6976	49.98	-9.17	40.81	70.73	-29.92	peak
4		0.9777	45.29	-9.10	36.19	67.80	-31.61	peak
5		3.2773	40.96	-9.41	31.55	69.54	-37.99	peak
6		9.1266	40.79	-9.23	31.56	69.54	-37.98	peak

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4.3. Emissions in restricted frequency bands (30MHz - 1GHz)

<table>
<tr><td>Test Requirement:</td><td>47 CFR 15.209</td></tr>
<tr><td>Test Limit:</td><td>
<table>
<tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr>
<tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr>
<tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr>
<tr><td>1.705-30.0</td><td>30</td><td>30</td></tr>
<tr><td>30-88</td><td>100 **</td><td>3</td></tr>
<tr><td>88-216</td><td>150 **</td><td>3</td></tr>
<tr><td>216-960</td><td>200 **</td><td>3</td></tr>
<tr><td>Above 960</td><td>500</td><td>3</td></tr>
</table>
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g.,
§§ 15.231 and 15.241.

As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a)and (b)of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b)of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.
</td></tr>
<tr><td>Test Method:</td><td>Radiated emissions tests</td></tr>
<tr><td>Procedure:</td><td>ANSI C63.10-2013 section 6.6.4</td></tr>
</table>

4.3.1. E.U.T. Operation:

Operating Environment:	
Temperature:	23.4 °C
Humidity:	55 %
Atmospheric Pressure:	102 kPa
Final test mode:	Test Mode1, Test Mode2, Test Mode3, Test Mode4, Test Mode5, Test Mode6

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4.3.2. Test Data:

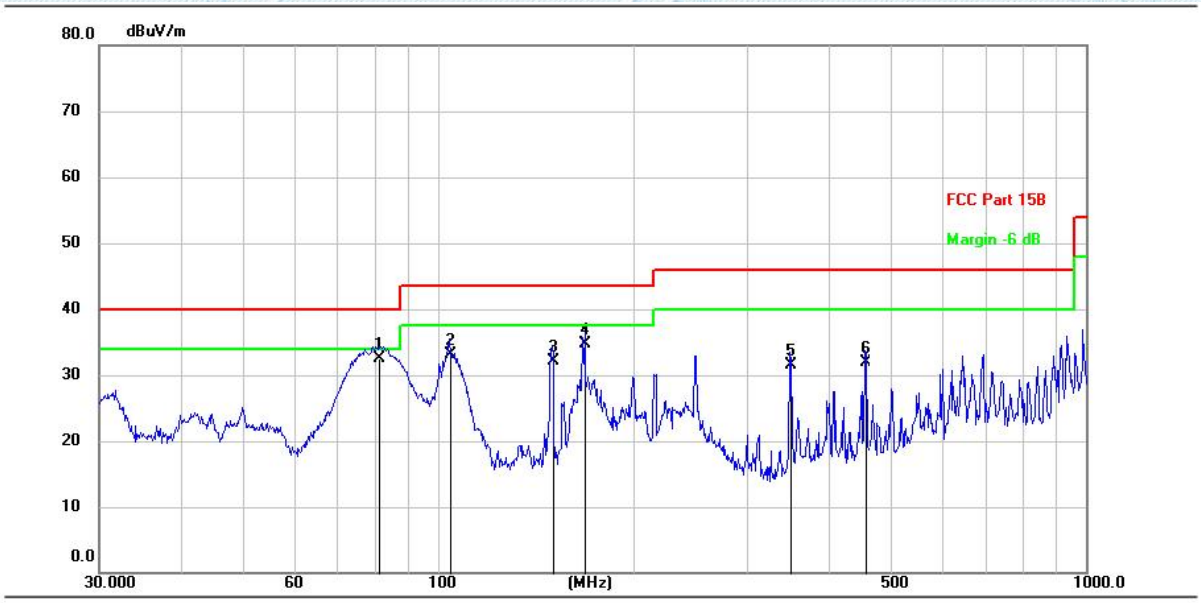
Note:

1).Level (dBμV/m)= Reading (dBμV)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Limit (dBμV/m) - Level (dBμV/m)

Test Mode1 / Polarization: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1	*	81.2687	53.80	-21.24	32.56	40.00	-7.44	QP
2		104.3529	51.11	-17.97	33.14	43.50	-10.36	QP
3		150.4321	53.47	-21.39	32.08	43.50	-11.42	QP
4		168.6501	55.31	-20.65	34.66	43.50	-8.84	QP
5		349.0051	44.13	-12.58	31.55	46.00	-14.45	QP
6		454.9476	42.20	-10.28	31.92	46.00	-14.08	QP

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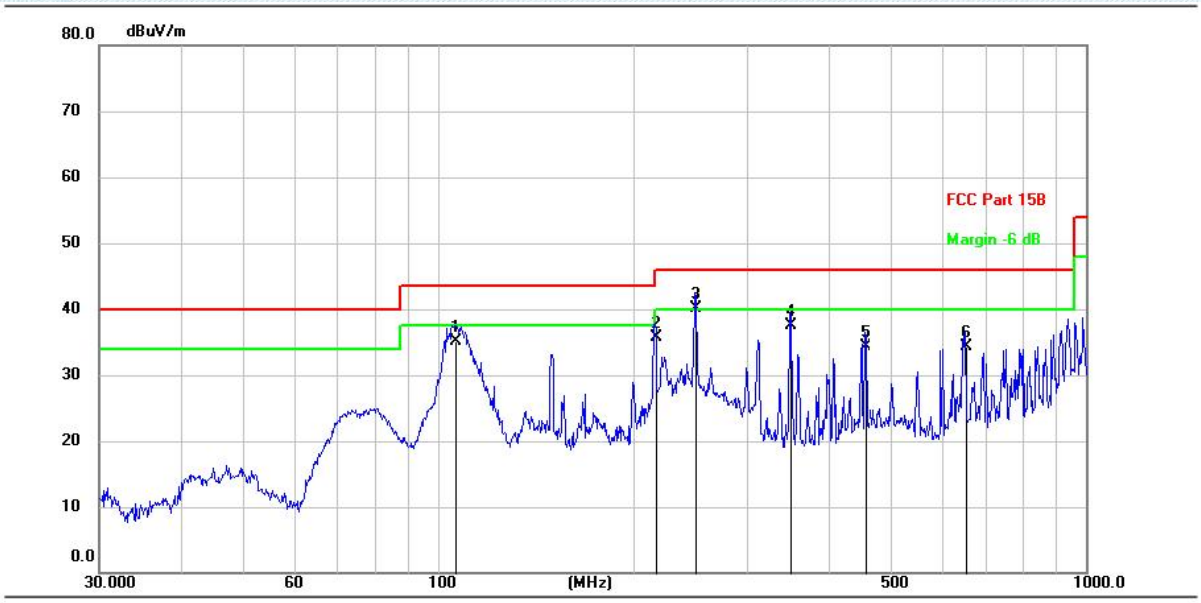
Test Mode1 / Polarization: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
1		106.5343	53.25	-18.13	35.12	43.50	-8.38	QP
2		216.6305	52.94	-17.26	35.68	46.00	-10.32	QP
3	*	249.3375	55.95	-15.77	40.18	46.00	-5.82	QP
4		349.0051	50.02	-12.58	37.44	46.00	-8.56	QP
5		454.9476	44.54	-10.28	34.26	46.00	-11.74	QP
6		652.3990	41.58	-7.35	34.23	46.00	-11.77	QP

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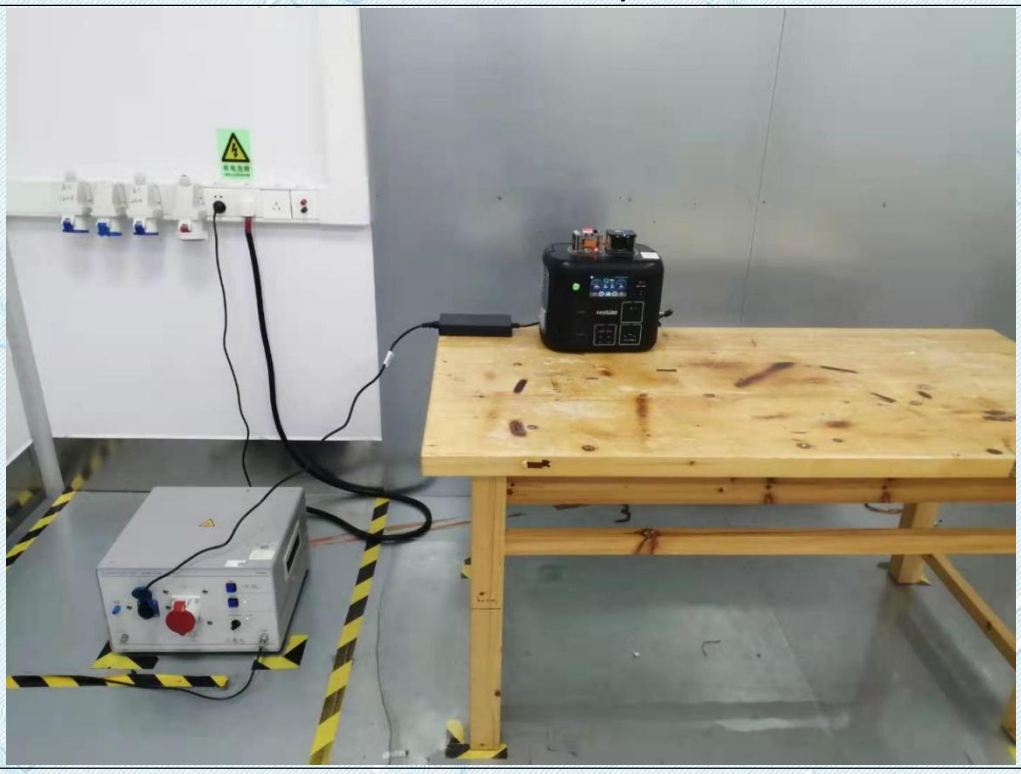
5. EUT TEST PHOTOS

Conducted Emission at AC power line



Emissions in restricted frequency bands (below 30MHz)

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Emissions in restricted frequency bands (30MHz - 1GHz)


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6. PHOTOGRAPHS OF EUT CONSTRUCTIONAL

External


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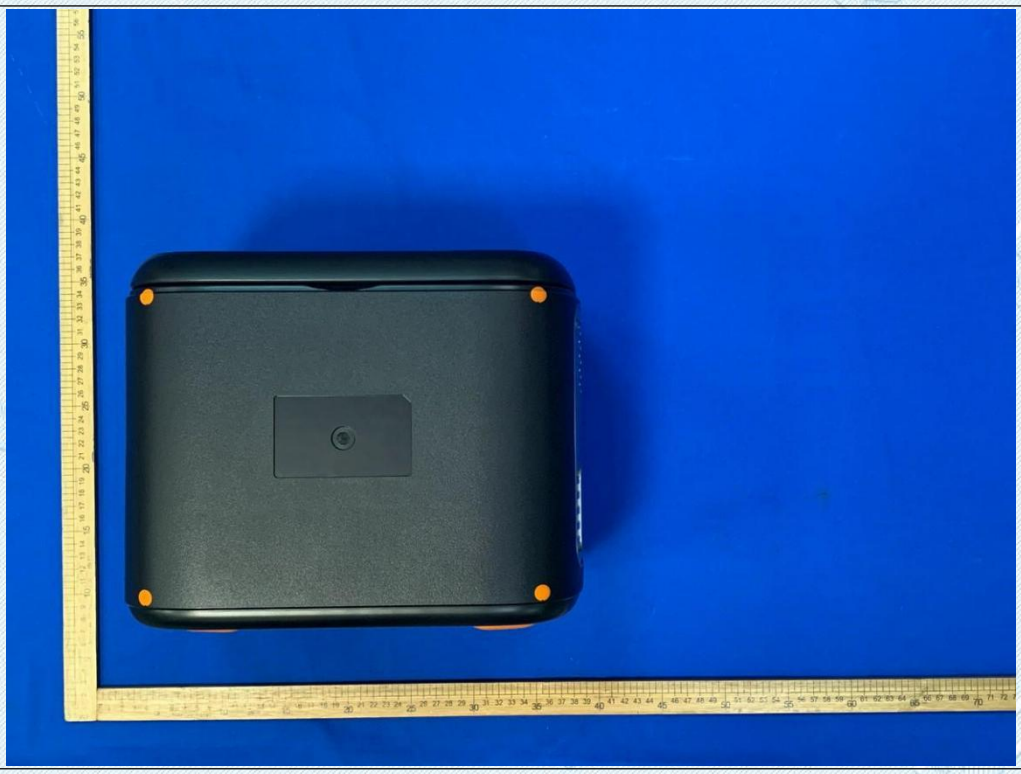

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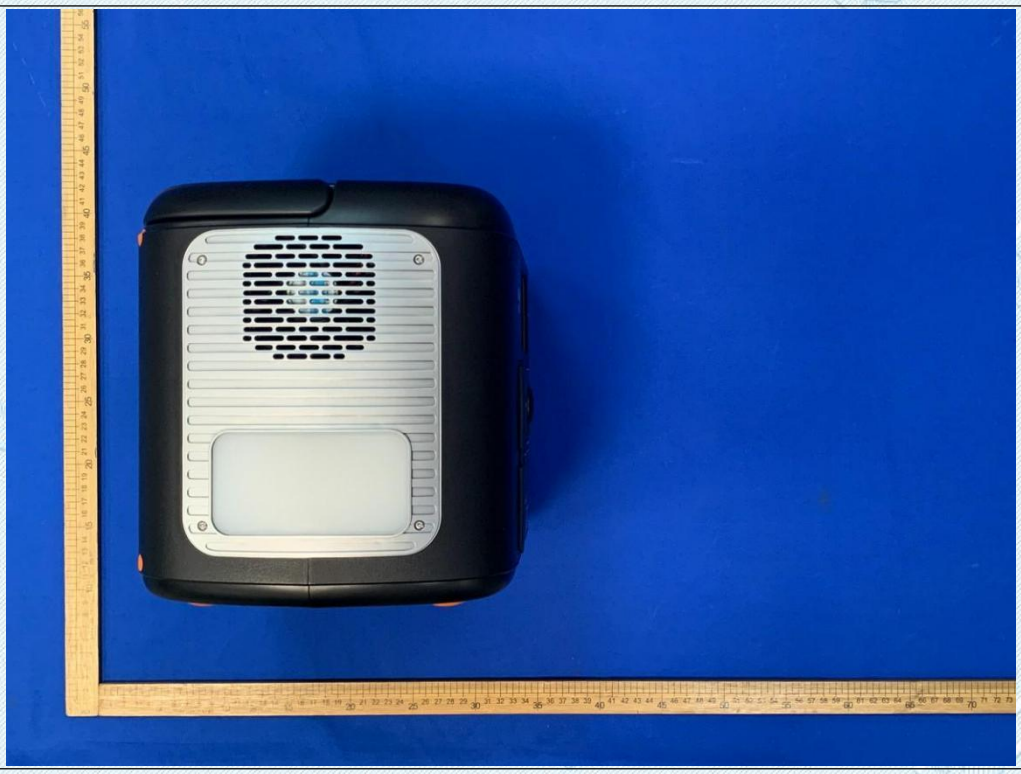

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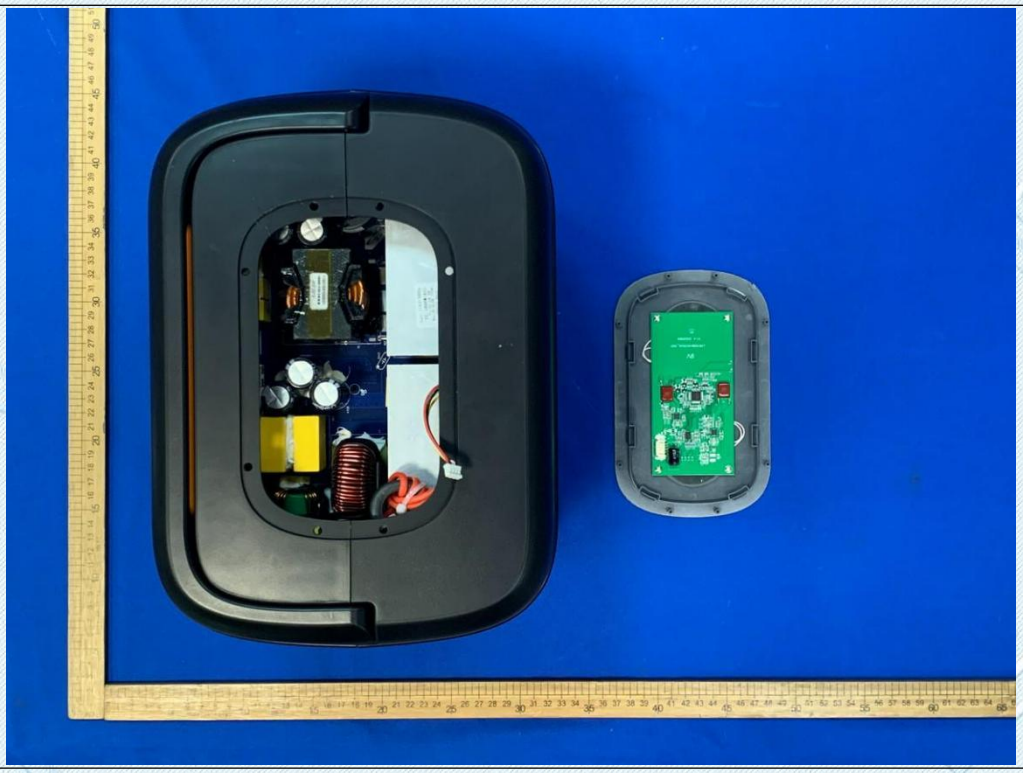
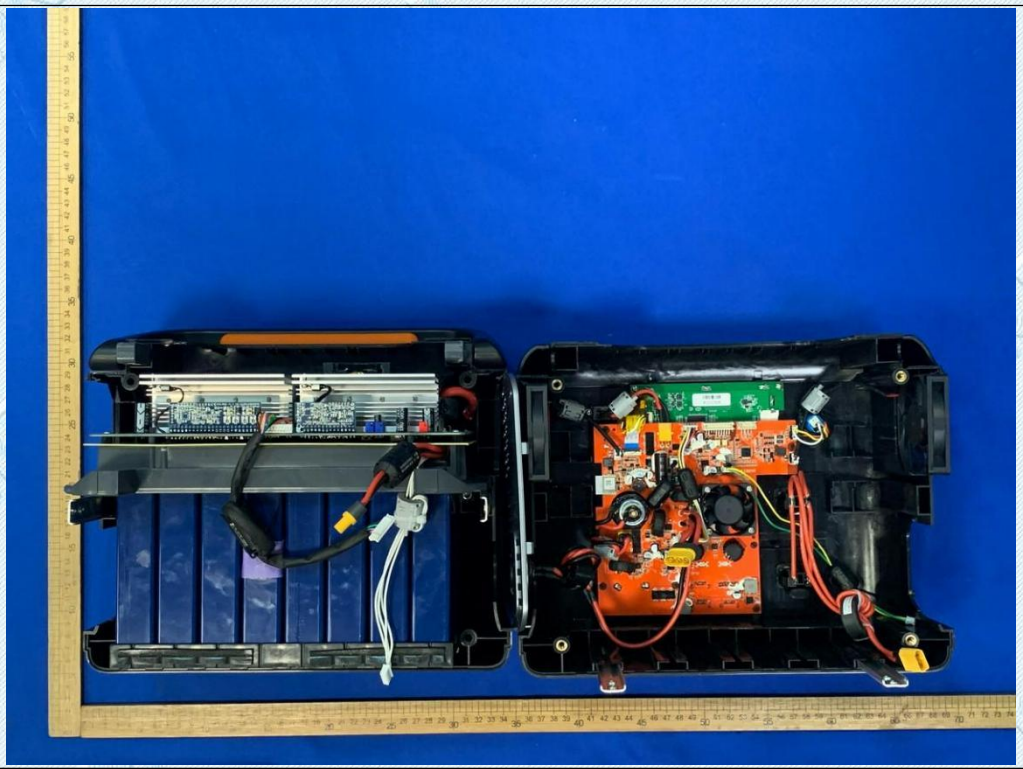
Internal




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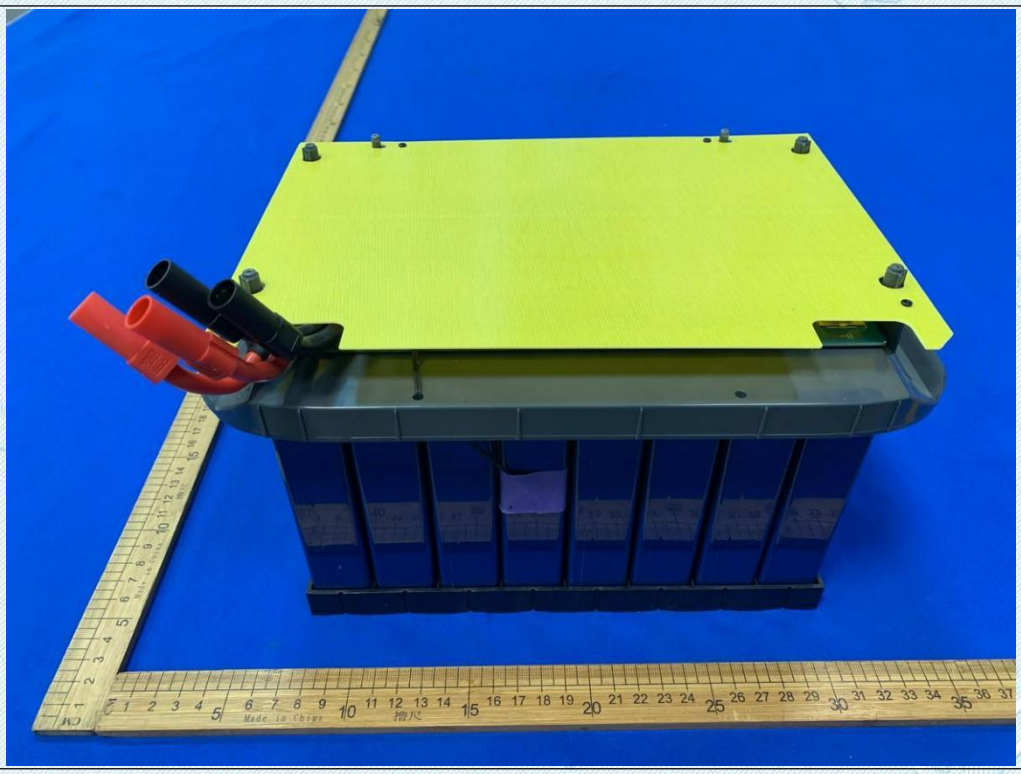

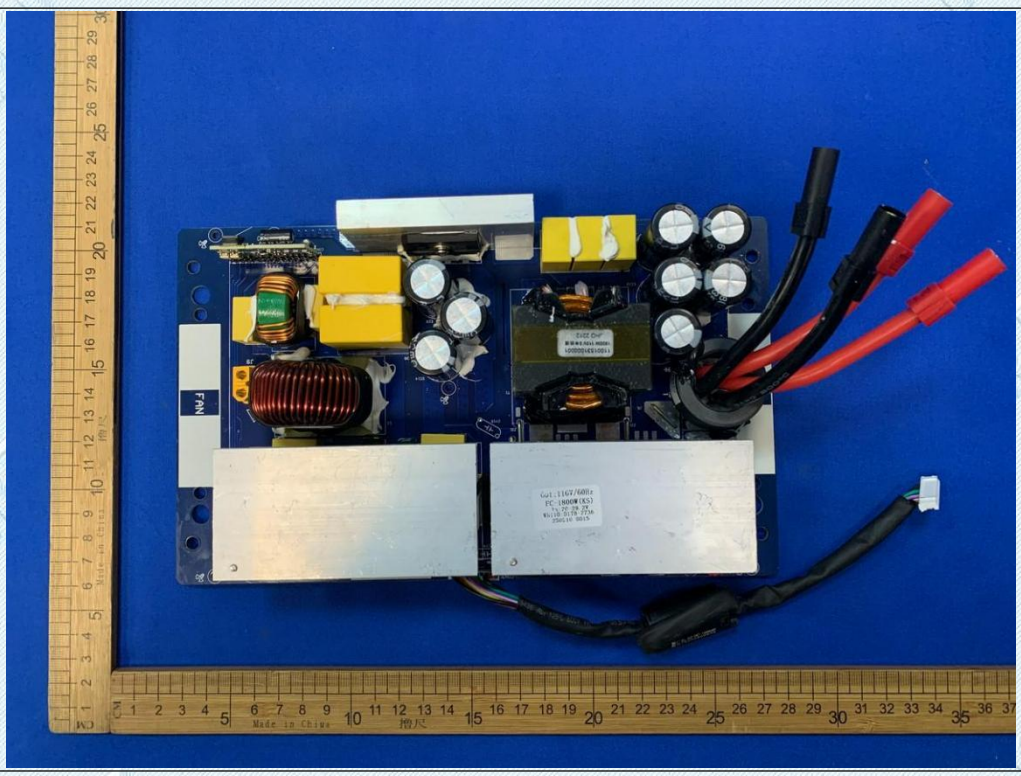

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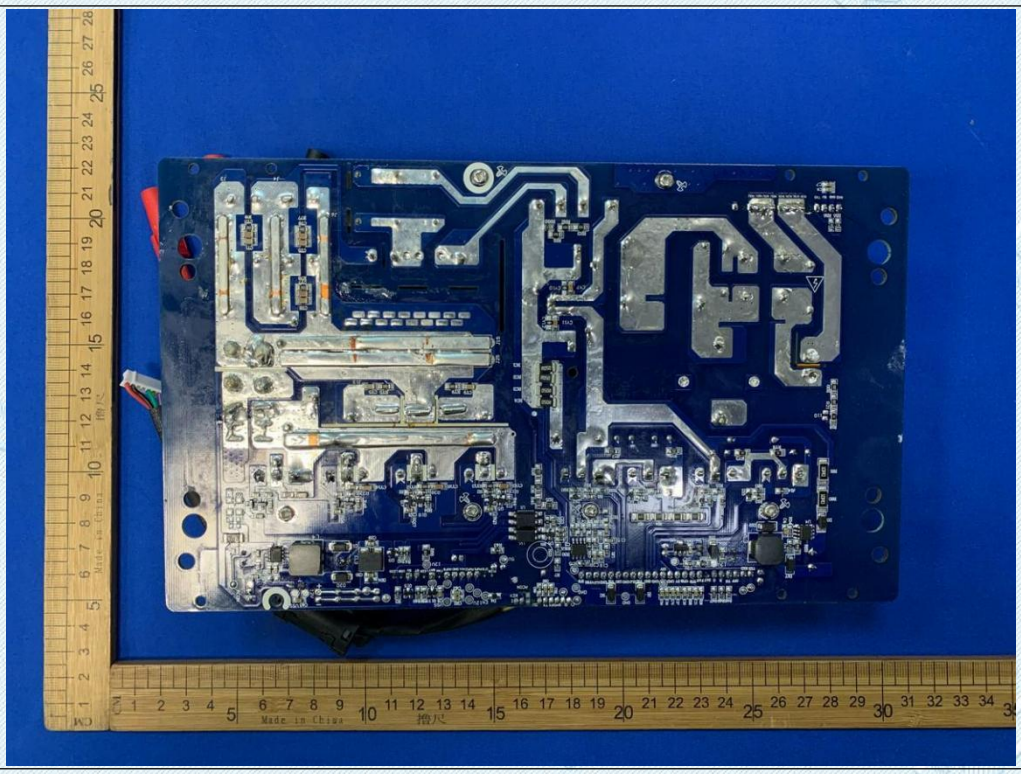

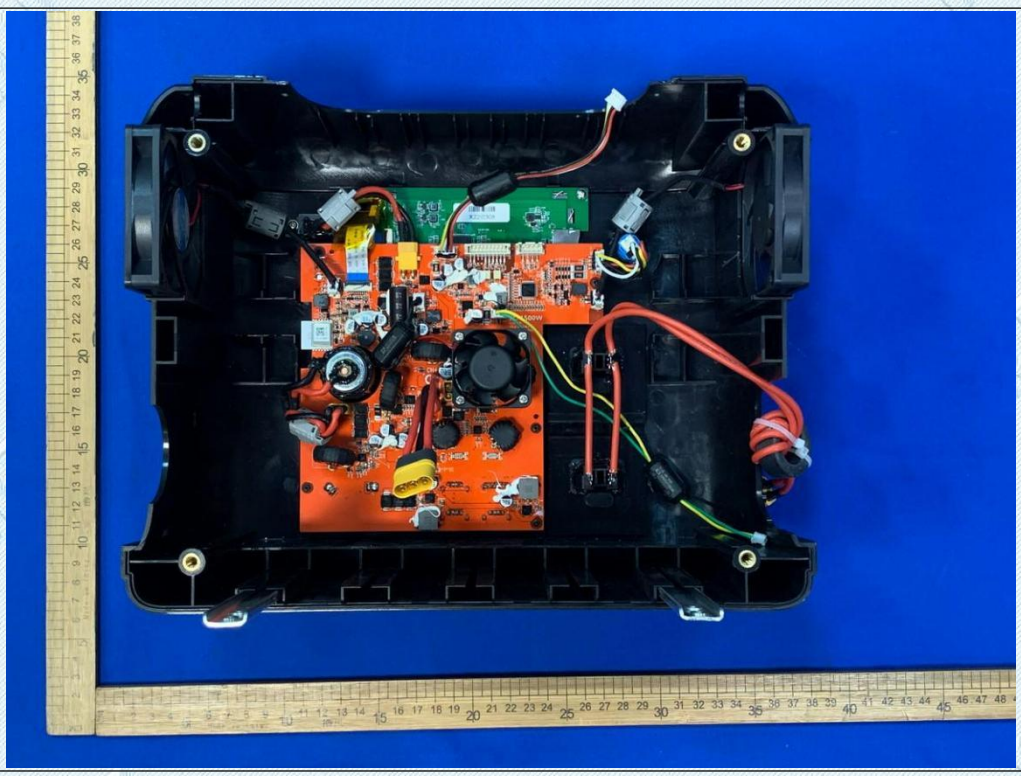

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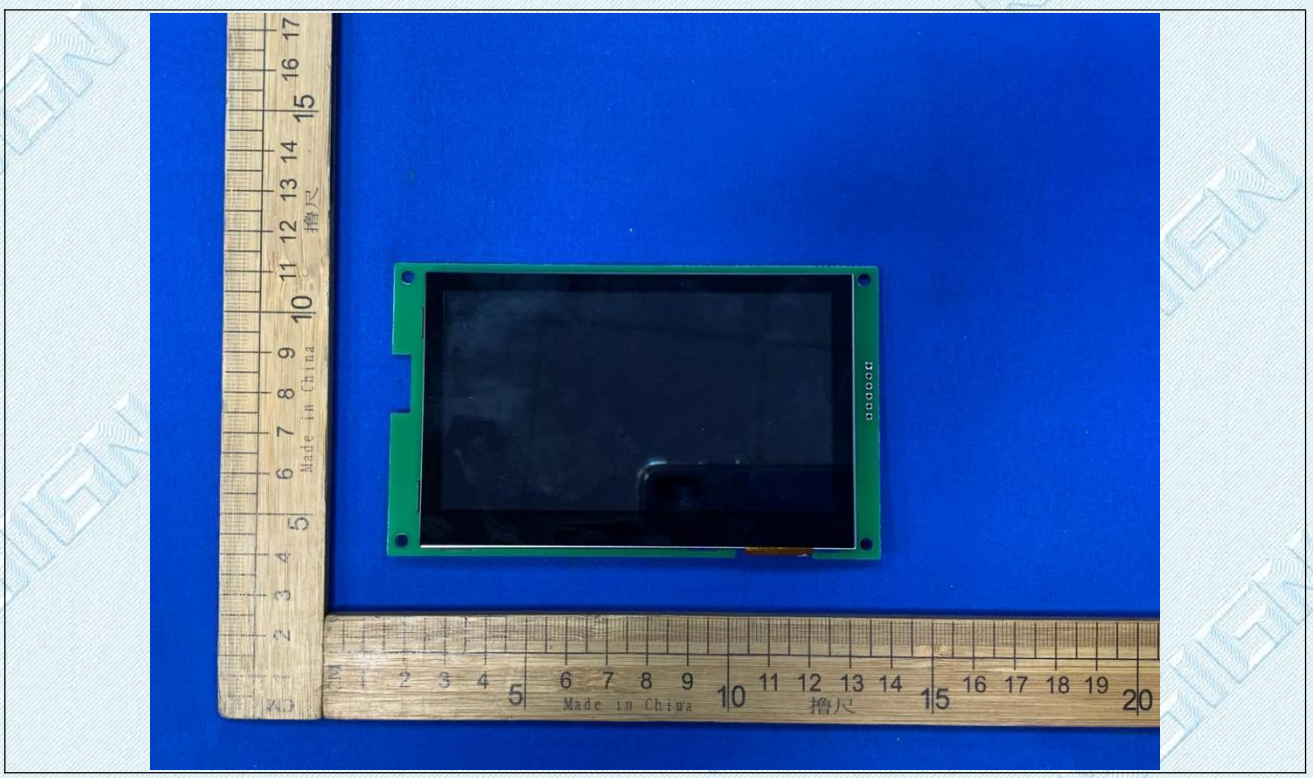

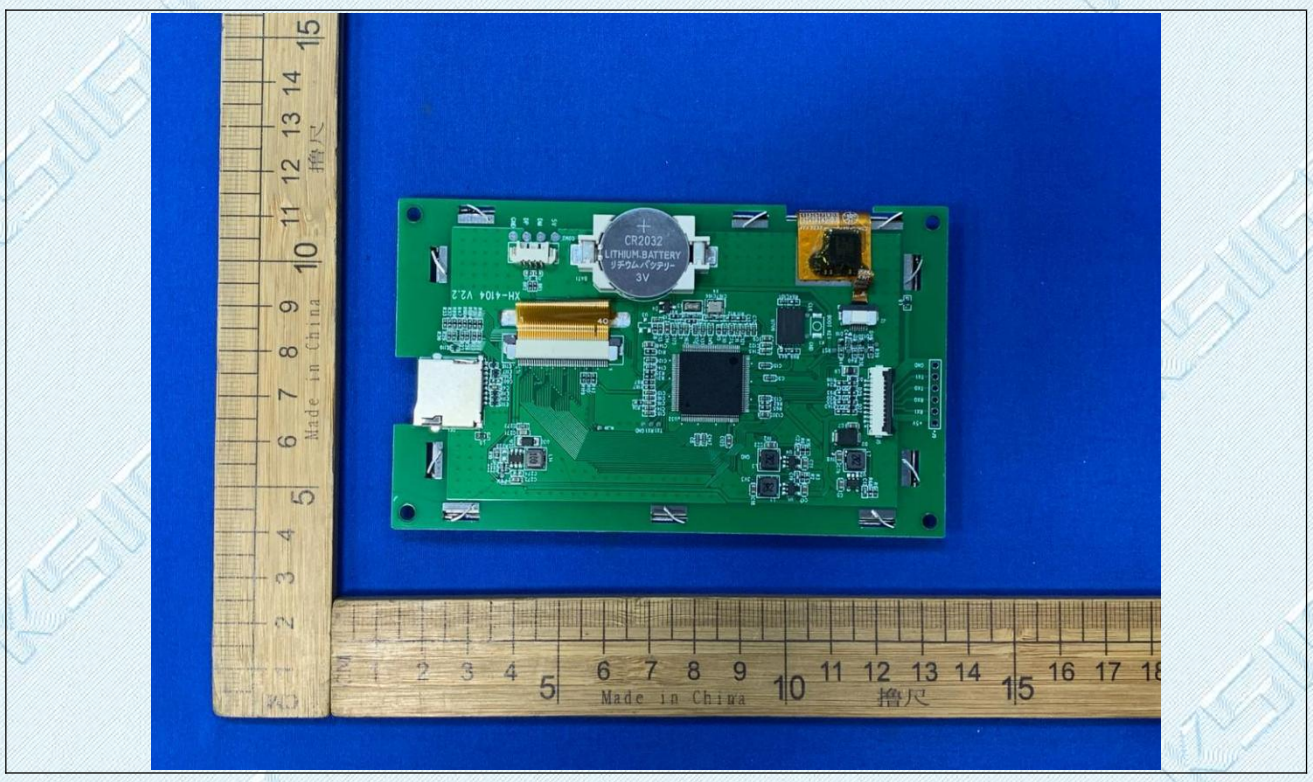

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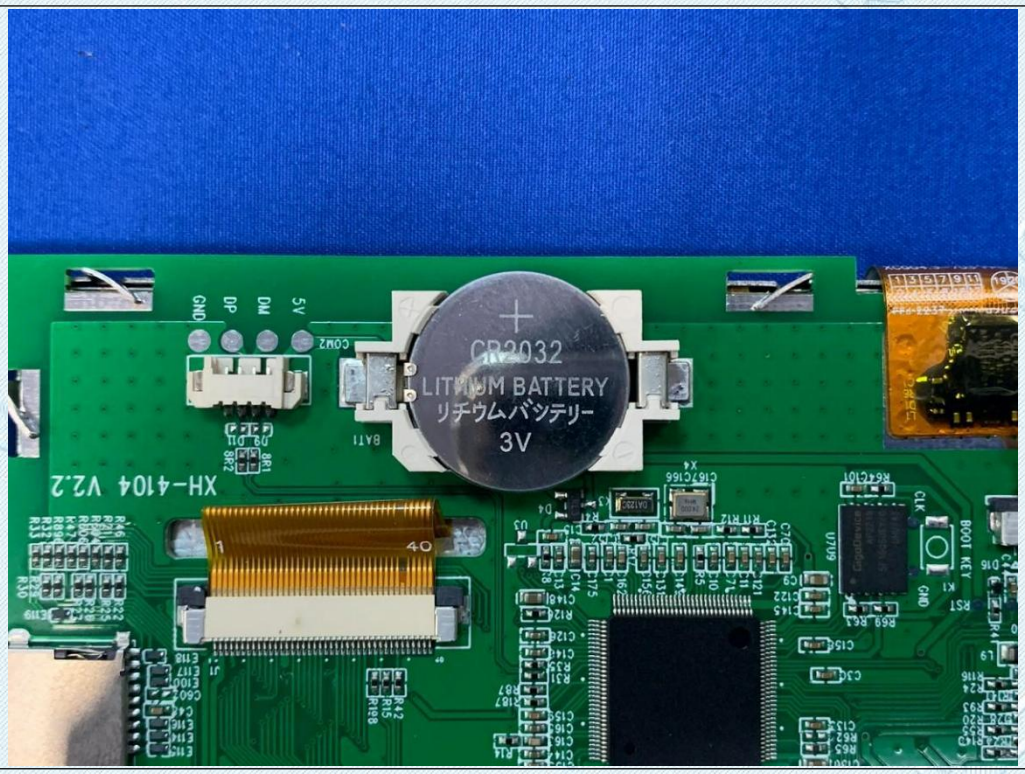

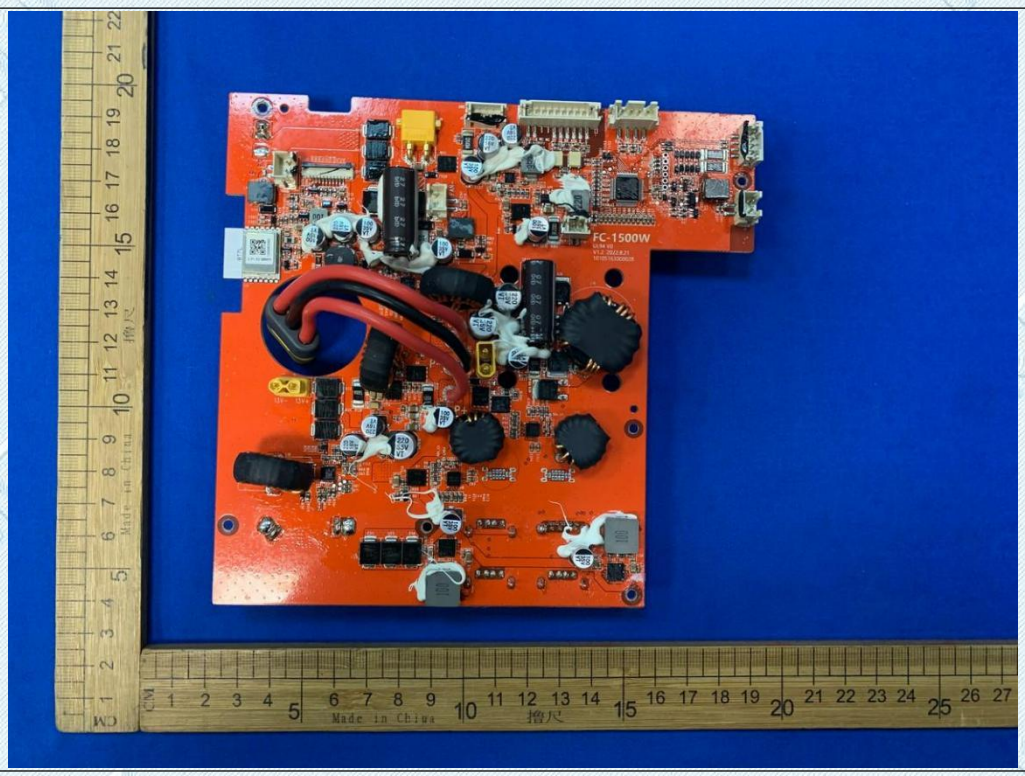

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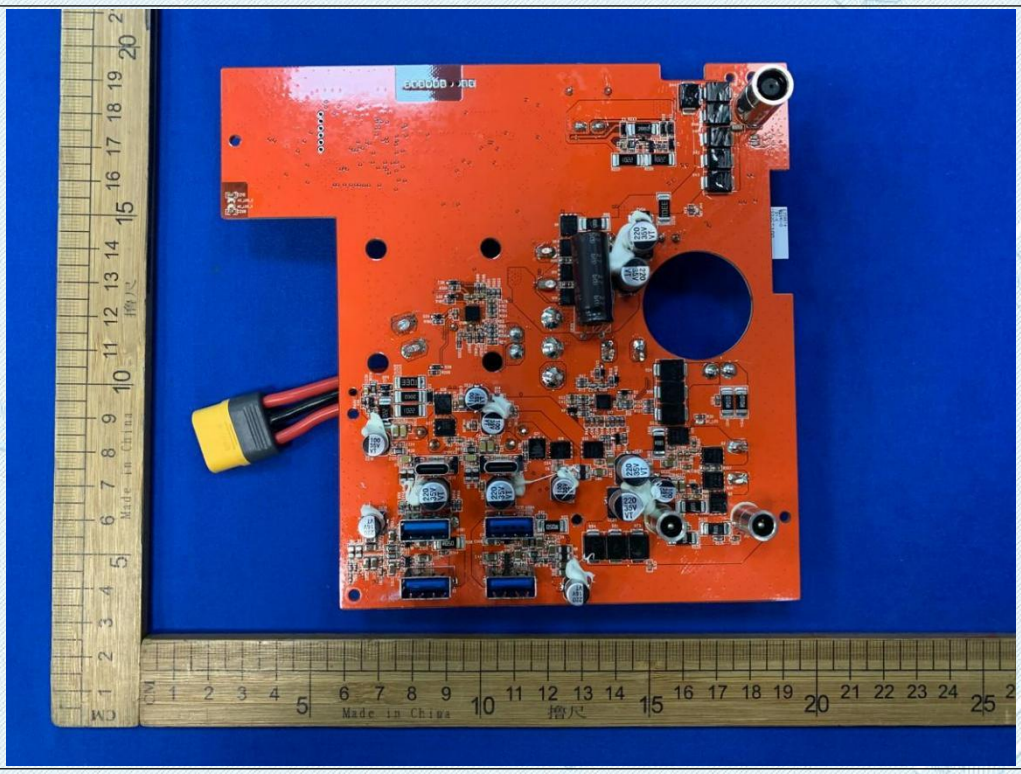

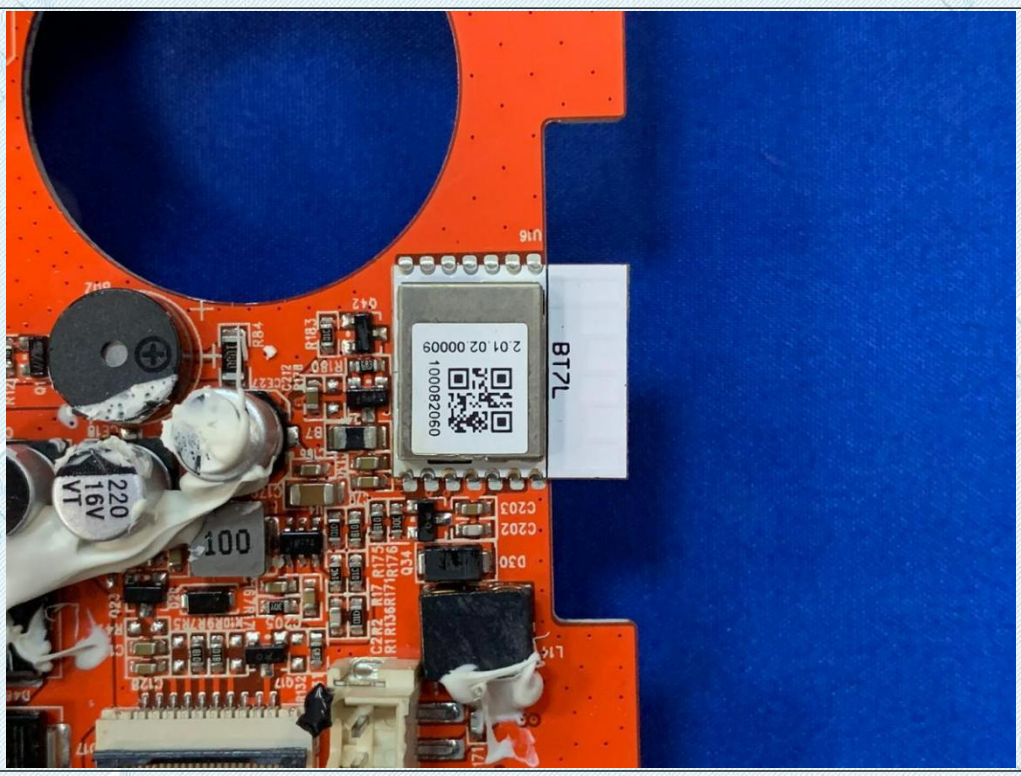

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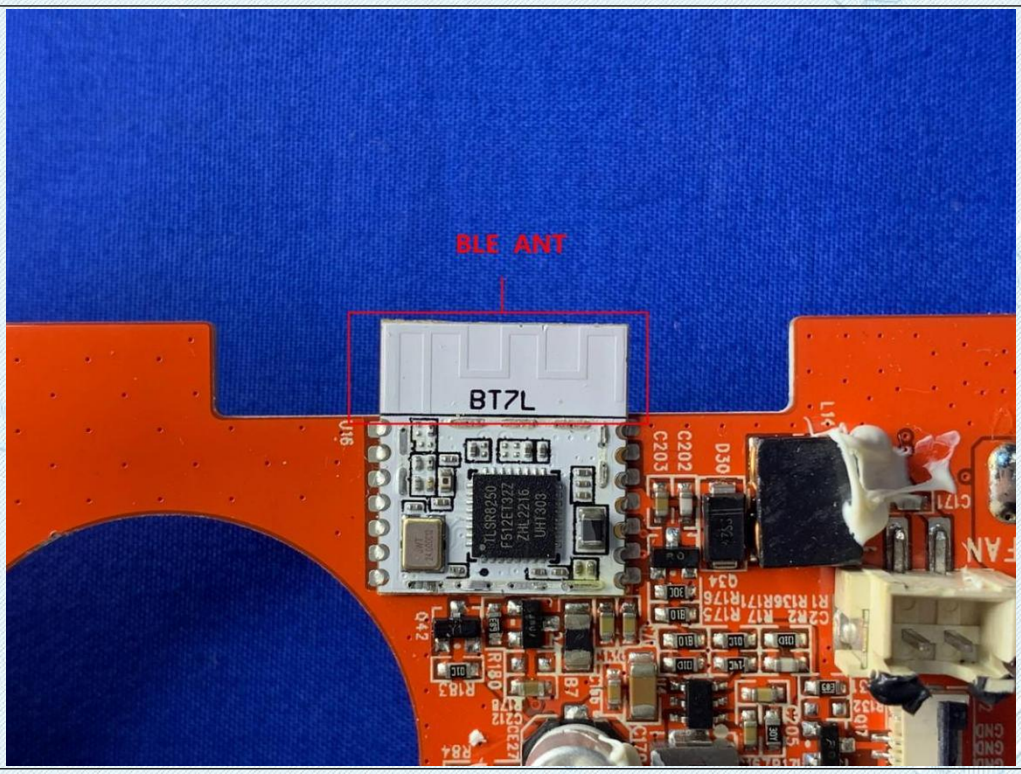

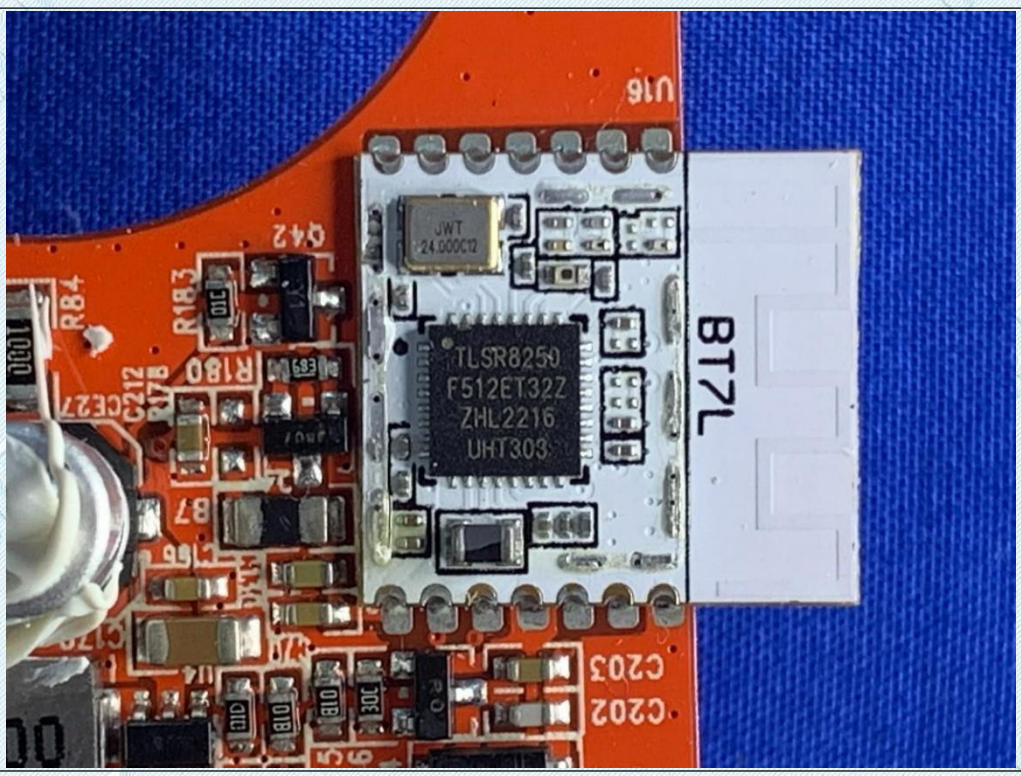

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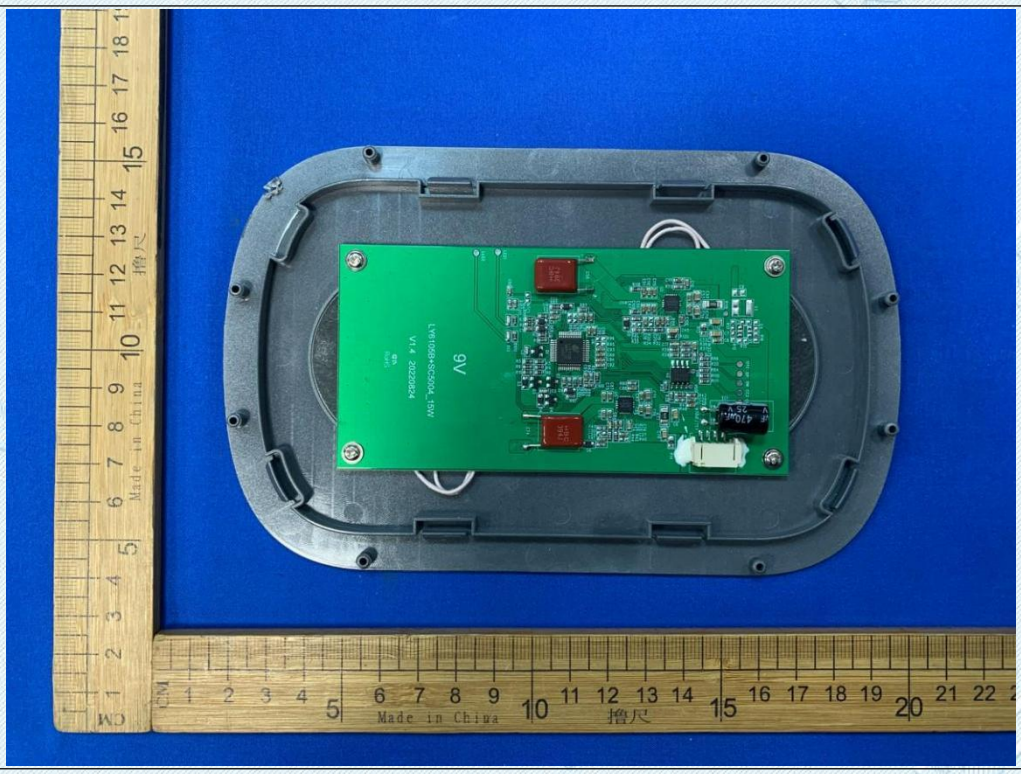

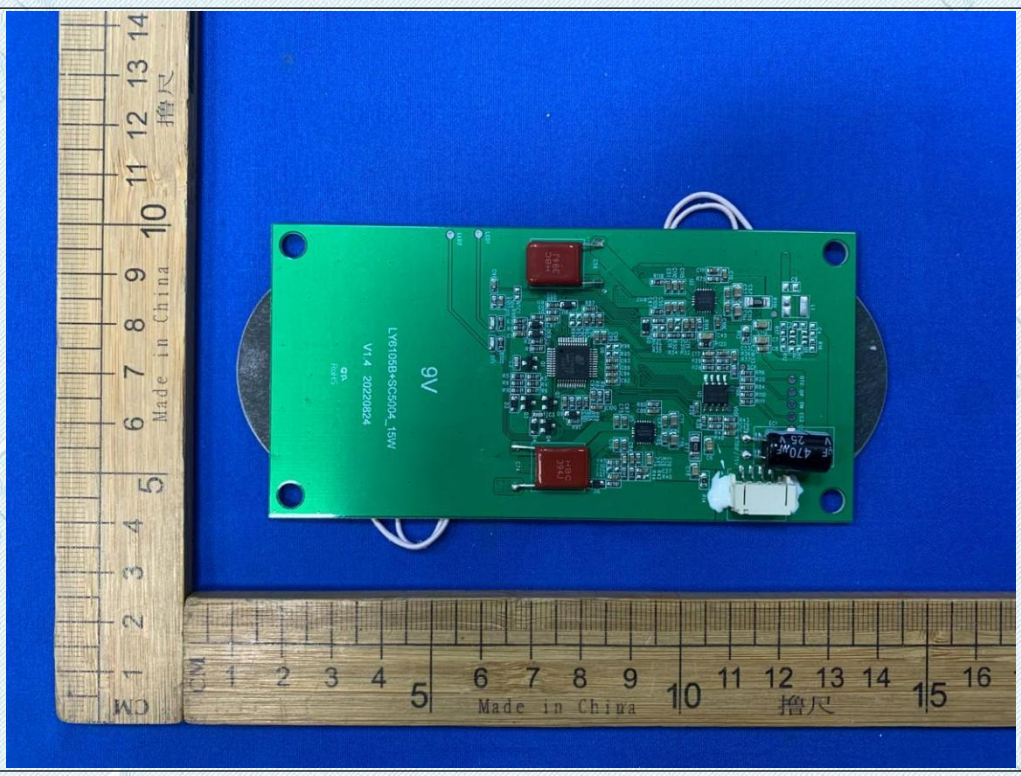

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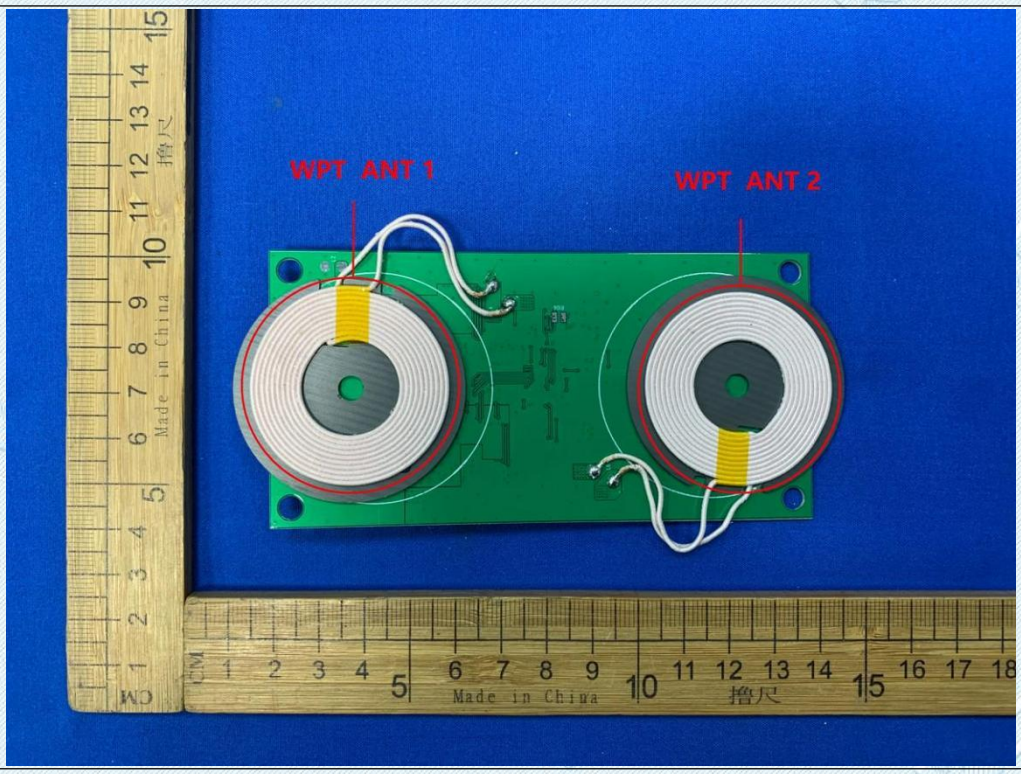

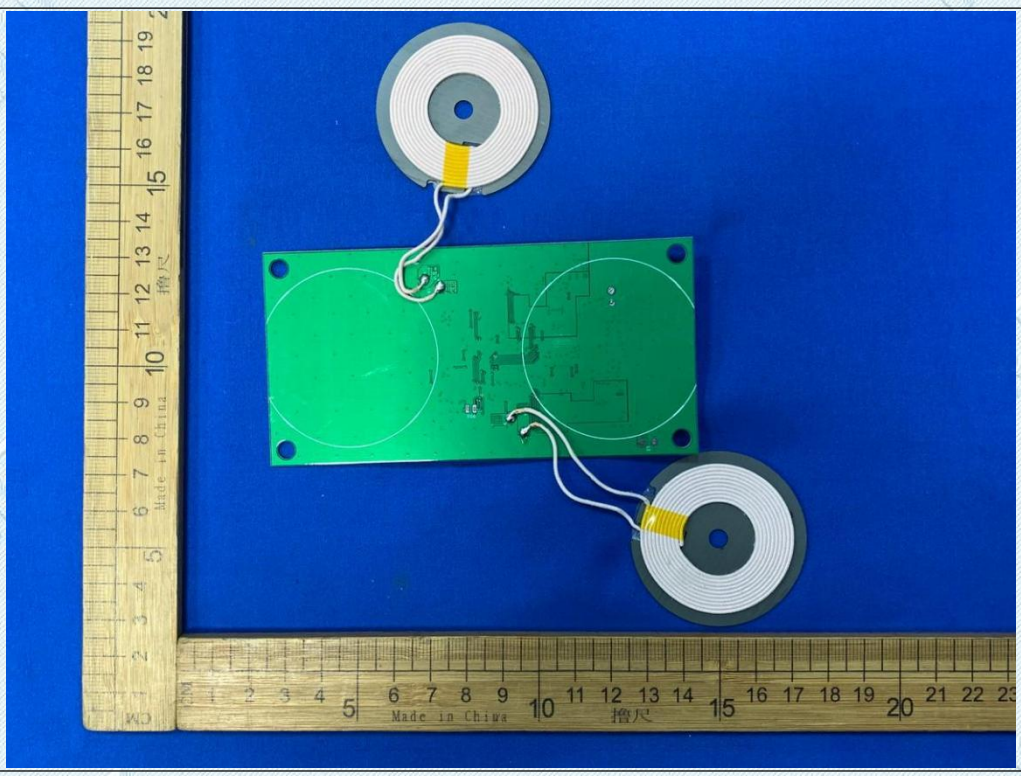

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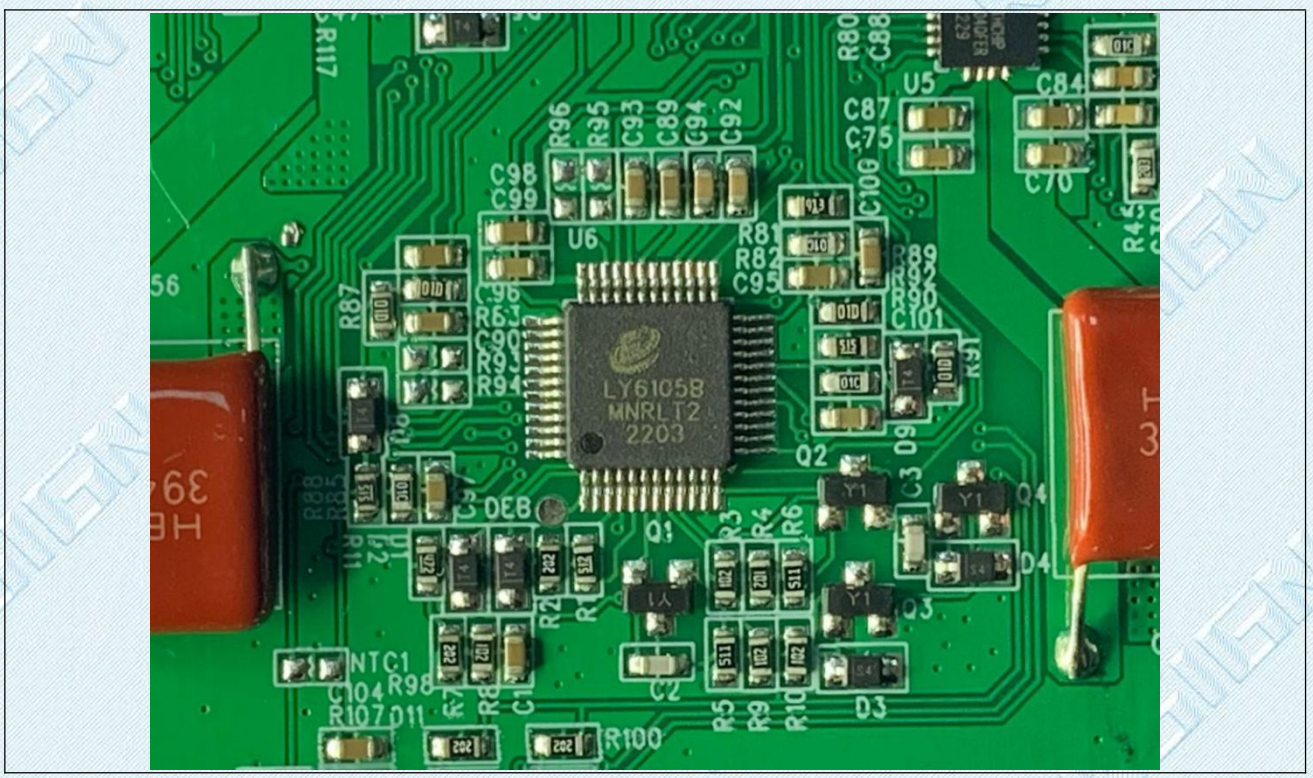

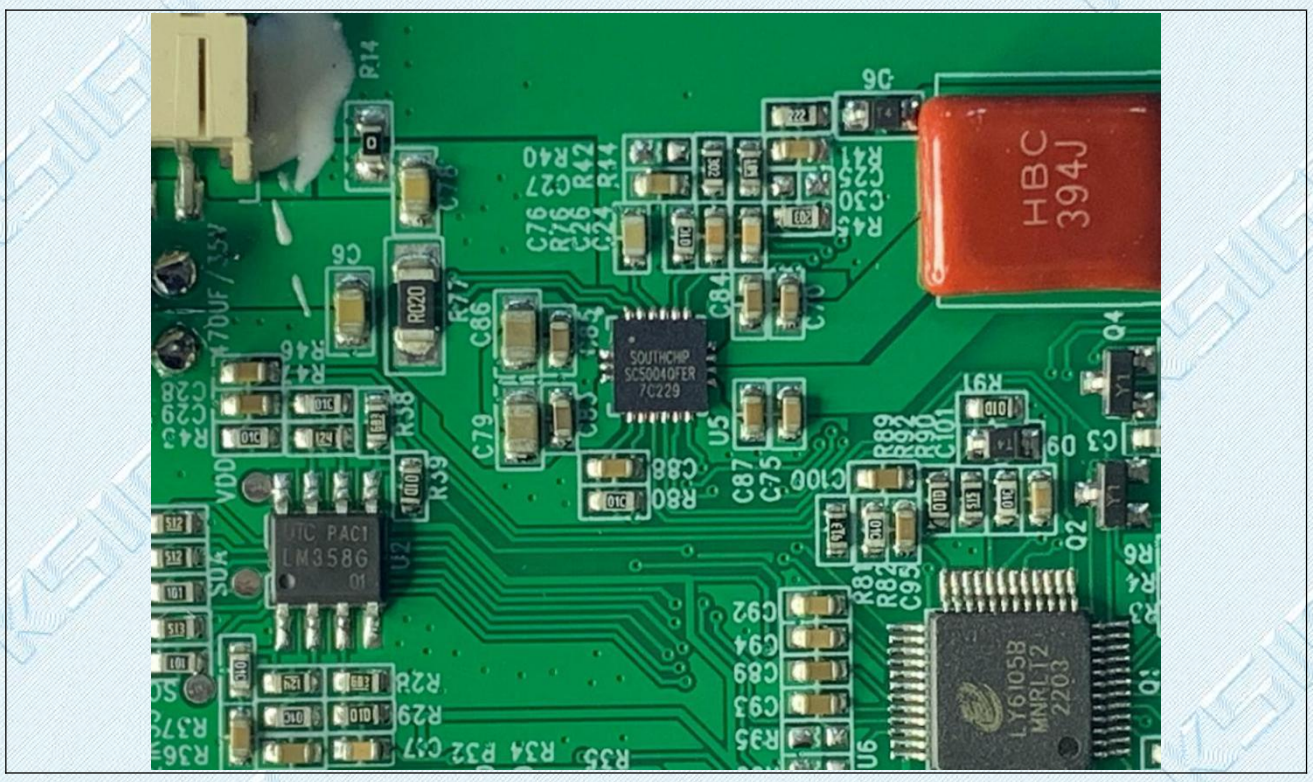

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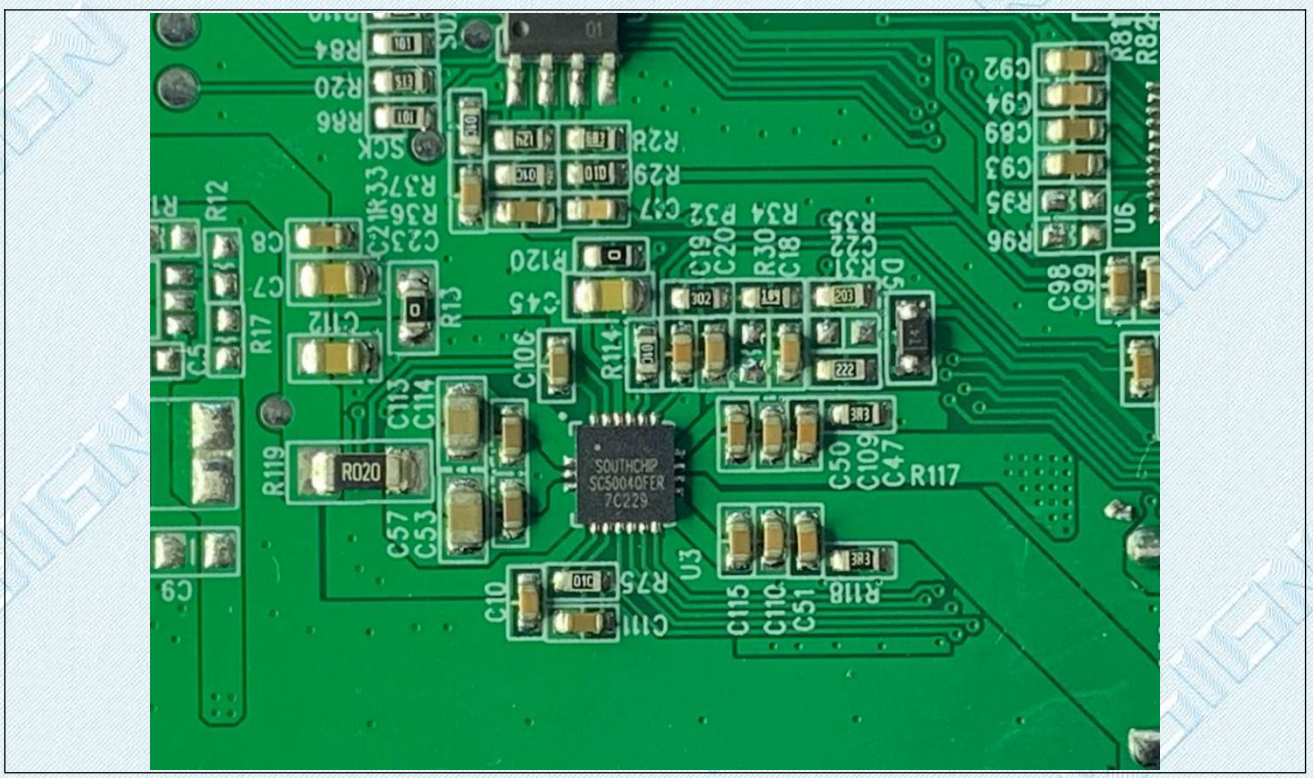

--THE END--

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