

TEST REPORT

Report No..... : KS2307S3928E

FCC ID..... : 2BCA5-FT3600

Applicant..... : Shenzhen Faith Technology Co., Ltd.

Address..... : 318-319, Building 6, 1970 Science Park, Minzhi Community, Minzhi Street, Longhua District, Shenzhen

Manufacturer..... : Shenzhen Faith Technology Co., Ltd.

Address..... : 318-319, Building 6, 1970 Science Park, Minzhi Community, Minzhi Street, Longhua District, Shenzhen

Product Name..... : FT3600 POWER STATION

Trademark..... : 

Model/Type reference..... : FT3600

Standard..... : 47 CFR Part 15C

Date of Receipt..... : July 25, 2023

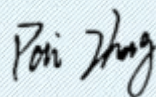
Date of Test Date..... : July 25, 2023, 2023 to August 23, 2023

Date of issue..... : August 24, 2023

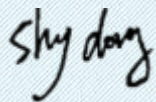
Test result..... : Pass

Conclusion..... : When determining of test conclusion, measurement uncertainty of tests have been considered.

Prepared by:
(Printed name + Signature) Pai Zheng



Approved by:
(Printed name + Signature) 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:

[FCC Rules and Regulations Part 15 Subpart C \(Section 15.207\)](#): Conducted limits.

[FCC Rules and Regulations Part 15 Subpart C \(Section 15.209\)](#): Radiated emission limits; general requirements.

[ANSI C63.10: 2013](#): American National Standard for Testing Unlicensed Wireless Devices

1.2. Report Version

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

1.3. Test Description

Test Item	Standard	Requirement	Result
Antenna requirement	47 CFR Part 15C	Part 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15C	47 CFR 15.207(a)	Pass
Emissions in frequency bands (below 30MHz)	47 CFR Part 15C	47 CFR 15.209	Pass
Emissions in frequency bands (30MHz - 1GHz)	47 CFR Part 15C	47 CFR 15.209	Pass

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 Requirements for 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.

1.5. Measurement Uncertainty

Test Items	Measurement Uncertainty
Conducted Emission (9-150kHz)	$\pm 3.74\text{dB}$
Conducted Emission (150k-30MHz)	$\pm 3.34\text{dB}$
RE (9kHz-30MHz)	$\pm 2.20\text{dB}$
RSE (30-1000MHz)	$\pm 5.7\text{dB}$

The reported uncertainty of measurement $y \pm U$, 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 %.

2. GENERAL INFORMATION

2.1. General Description Of EUT

Test Sample Number:	1-1(Normal Sample), 1-2(Engineering Sample)
Product Name:	FT3600 POWER STATION
Trademark:	
Model / Type reference:	FT3600
Model Difference:	N/A
Power Supply:	Input: AC 120V~, 60Hz Battery: DC 51.2V Wireless Charger: 5W, 7.5W, 10W, 15W
Operation Frequency:	115KHz-205KHz
Modulation Type:	FSK
Antenna Type:	0 dBi
Antenna Gain:	Loop coil antenna
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.	Technical Parameters	Provided by
Wireless charging load	EESON	2S	5W, 7.5W, 10W, 15W	laboratory

2.3. Description of Test Modes

No.	Title	Description of Mode
Test Mode1	Coil 1-Wireless charging mode(15W)	N/A
Test Mode2	Coil 1-Wireless charging mode(10W)	N/A
Test Mode3	Coil 1-Wireless charging mode(7.5W)	N/A
Test Mode4	Coil 1-Wireless charging mode(5W)	N/A
Test Mode5	Coil 2-Wireless charging mode(15W)	N/A
Test Mode6	Coil 2-Wireless charging mode(10W)	N/A
Test Mode7	Coil 2-Wireless charging mode(7.5W)	N/A
Test Mode8	Coil 2-Wireless charging mode(5W)	N/A
Test Mode9	Standby mode	N/A

Note:

1. 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.
2. The wireless charging module is a dual coil single charging system, Coil 1 and coil 2 cannot emit simultaneously

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 frequency bands (30MHz - 1GHz)				
Emissions in 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

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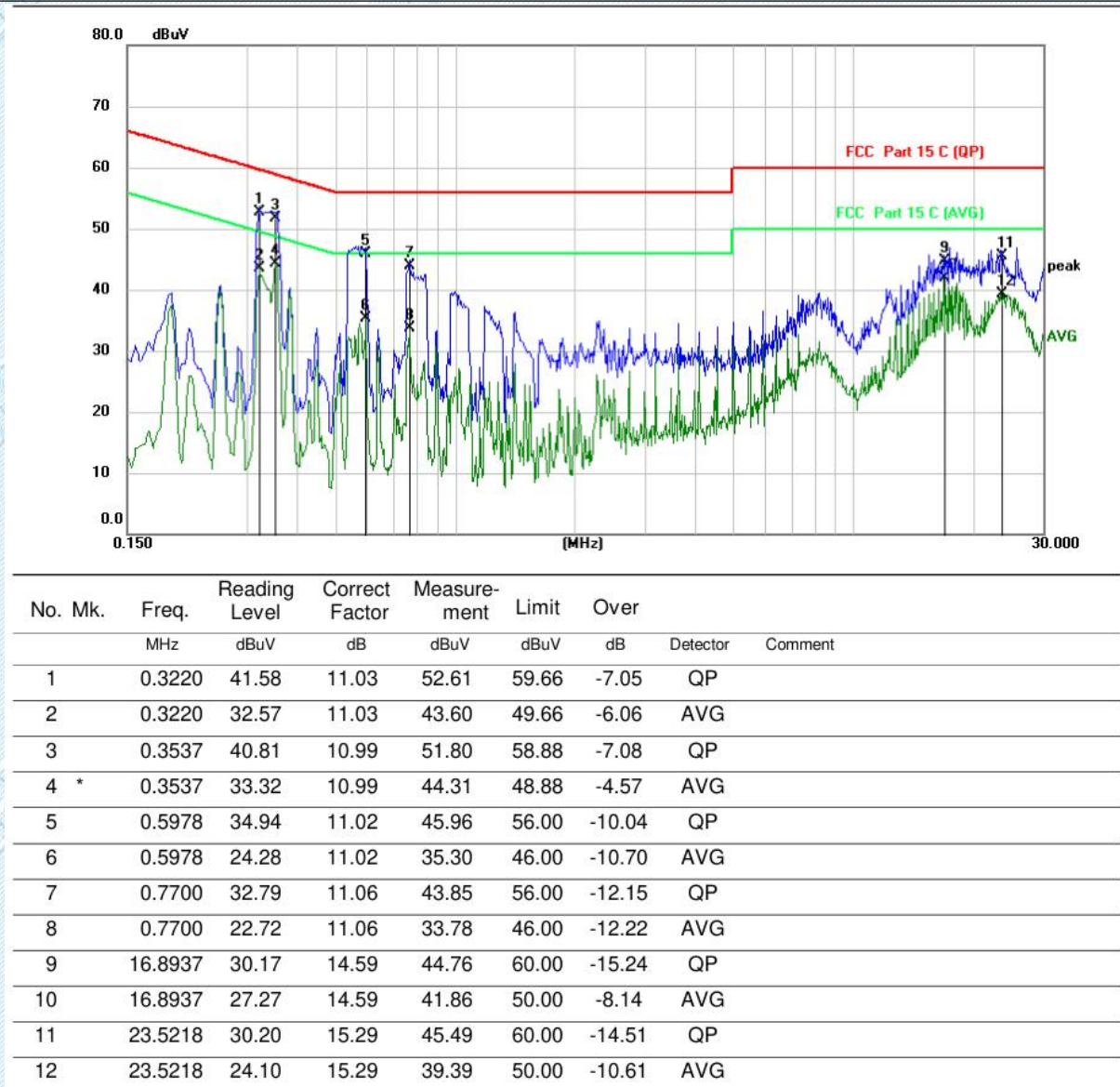
3. Evaluation Results (Evaluation)

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.
Antenna Information:	The antenna used in this product is a Coil Antenna.
Note: The antenna gain is 0dBi, and the antenna gain is provided by the applicant.	

4.1.3. Test Data:

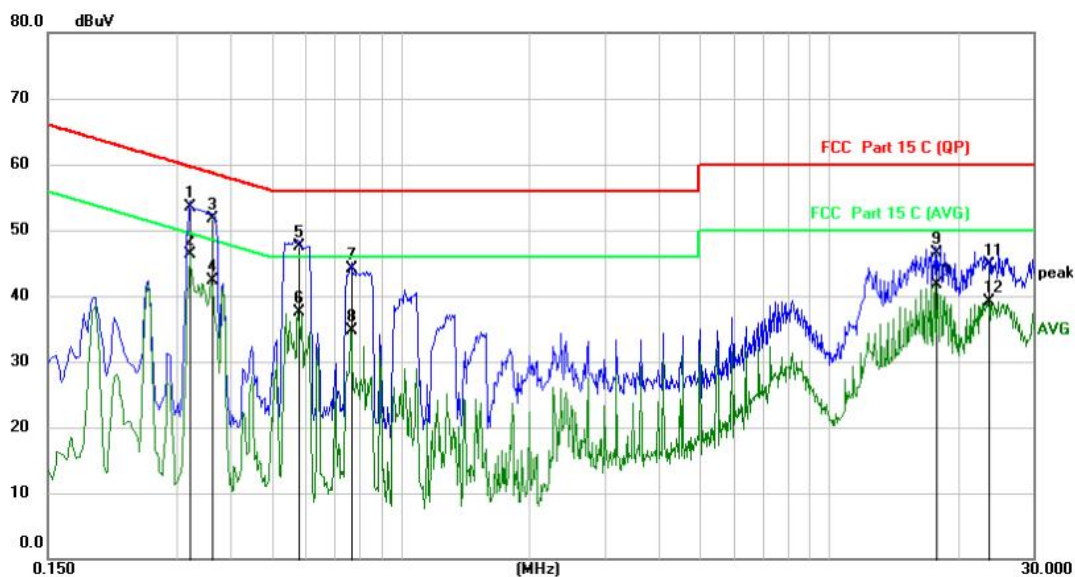
Test Mode1 / Line: Line



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Test Mode1 / Line: Neutral


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.3220	42.46	11.01	53.47	59.66	-6.19	QP	
2 *	0.3220	35.24	11.01	46.25	49.66	-3.41	AVG	
3	0.3618	40.78	11.01	51.79	58.69	-6.90	QP	
4	0.3618	31.30	11.01	42.31	48.69	-6.38	AVG	
5	0.5778	36.48	11.00	47.48	56.00	-8.52	QP	
6	0.5778	26.53	11.00	37.53	46.00	-8.47	AVG	
7	0.7660	33.10	11.06	44.16	56.00	-11.84	QP	
8	0.7660	23.71	11.06	34.77	46.00	-11.23	AVG	
9	17.8059	31.46	15.09	46.55	60.00	-13.45	QP	
10	17.8059	26.62	15.09	41.71	50.00	-8.29	AVG	
11	23.5138	29.18	15.47	44.65	60.00	-15.35	QP	
12	23.5138	23.64	15.47	39.11	50.00	-10.89	AVG	

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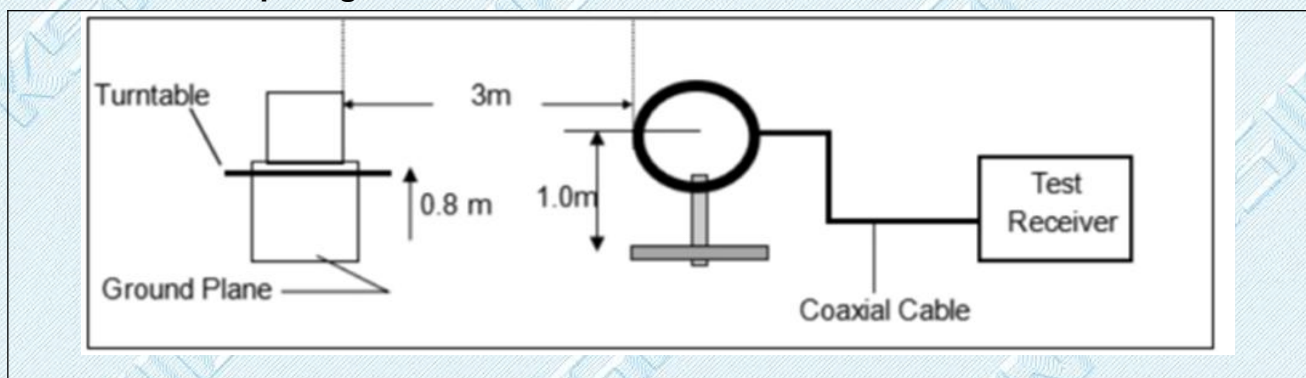
4.2. Emissions in frequency bands (below 30MHz)

Test Requirement:	47 CFR 15.209		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** 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.			
Test Method:	Radiated emissions tests		
Procedure:	ANSI C63.10-2013 section 6.6.4		

4.2.1. E.U.T. Operation:

Operating Environment:	
Temperature:	25.1 °C
Humidity:	52.5 %
Atmospheric Pressure:	102 kPa
Final test mode:	Test Mode1, Test Mode2, Test Mode3, Test Mode4, Test Mode5, Test Mode6, Test Mode7, Test Mode8, Test Mode9

4.2.2. Test Setup Diagram:



Note:

Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor

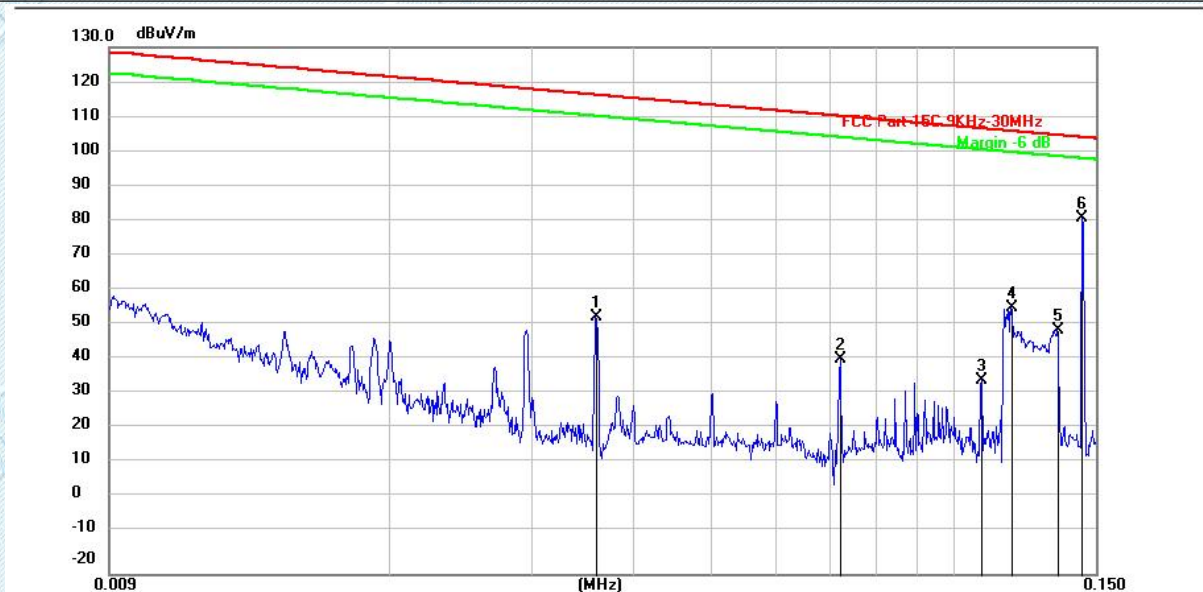
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4.2.3. Test Data:

Test Model1 / Face / 9KHz-150KHz

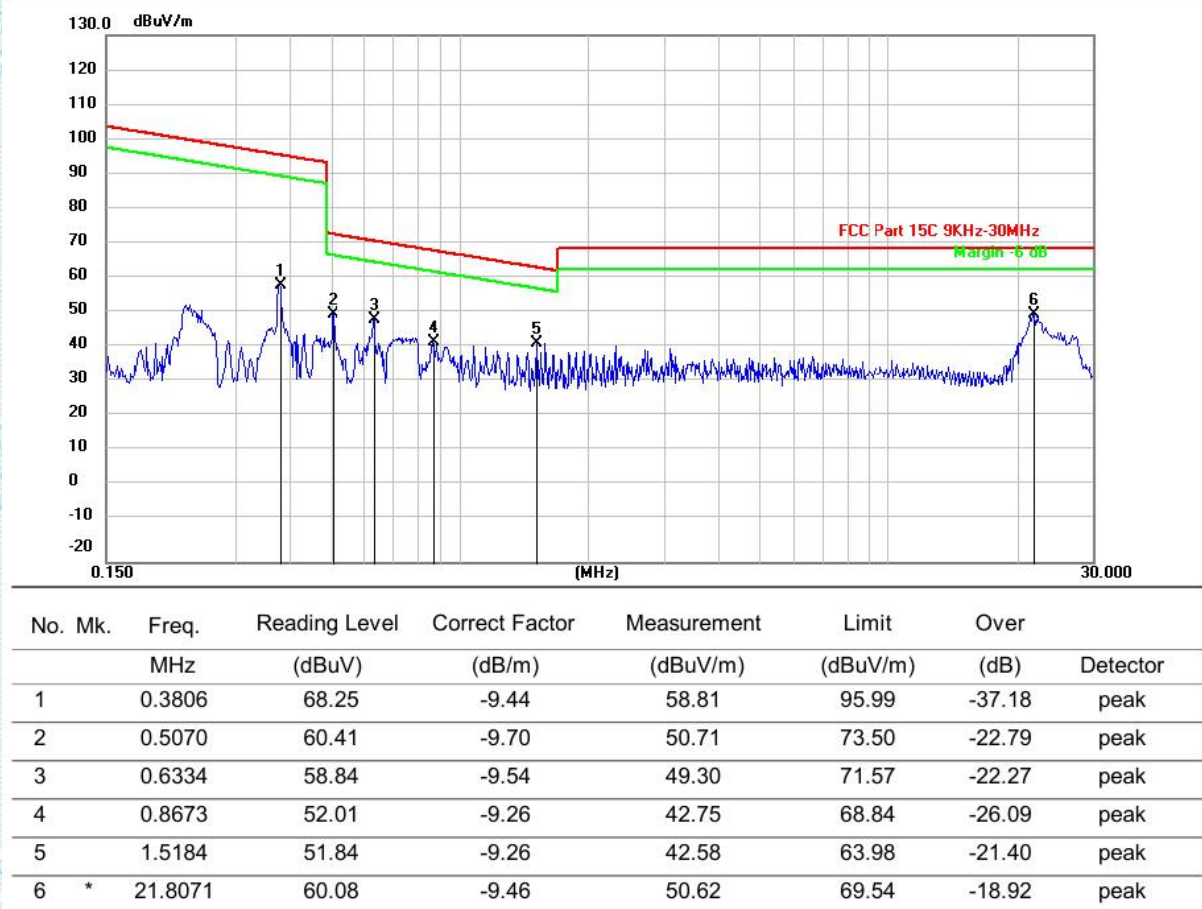


No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1		0.0361	62.43	-9.14	53.29	116.45	-63.16	peak
2		0.0722	50.32	-9.14	41.18	110.43	-69.25	peak
3		0.1082	43.74	-8.42	35.32	106.92	-71.60	peak
4		0.1179	64.57	-8.77	55.80	106.17	-50.37	peak
5		0.1345	58.96	-9.21	49.75	105.03	-55.28	peak
6	*	0.1440	90.42	-9.05	81.37	104.44	-23.07	peak

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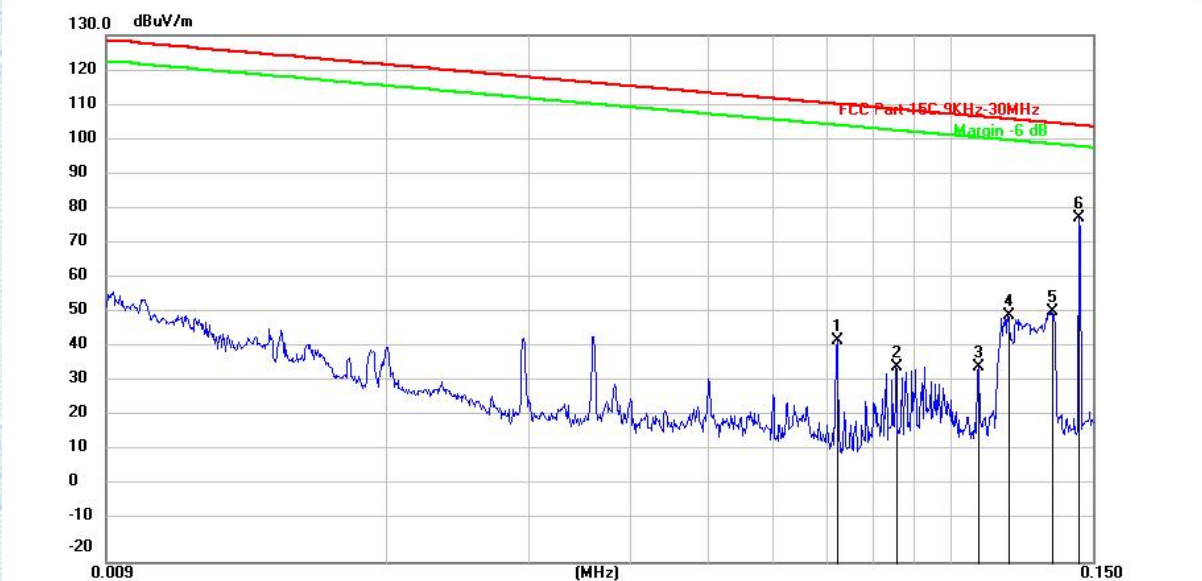
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Test Mode1 / Face / 150KHz-30MHz


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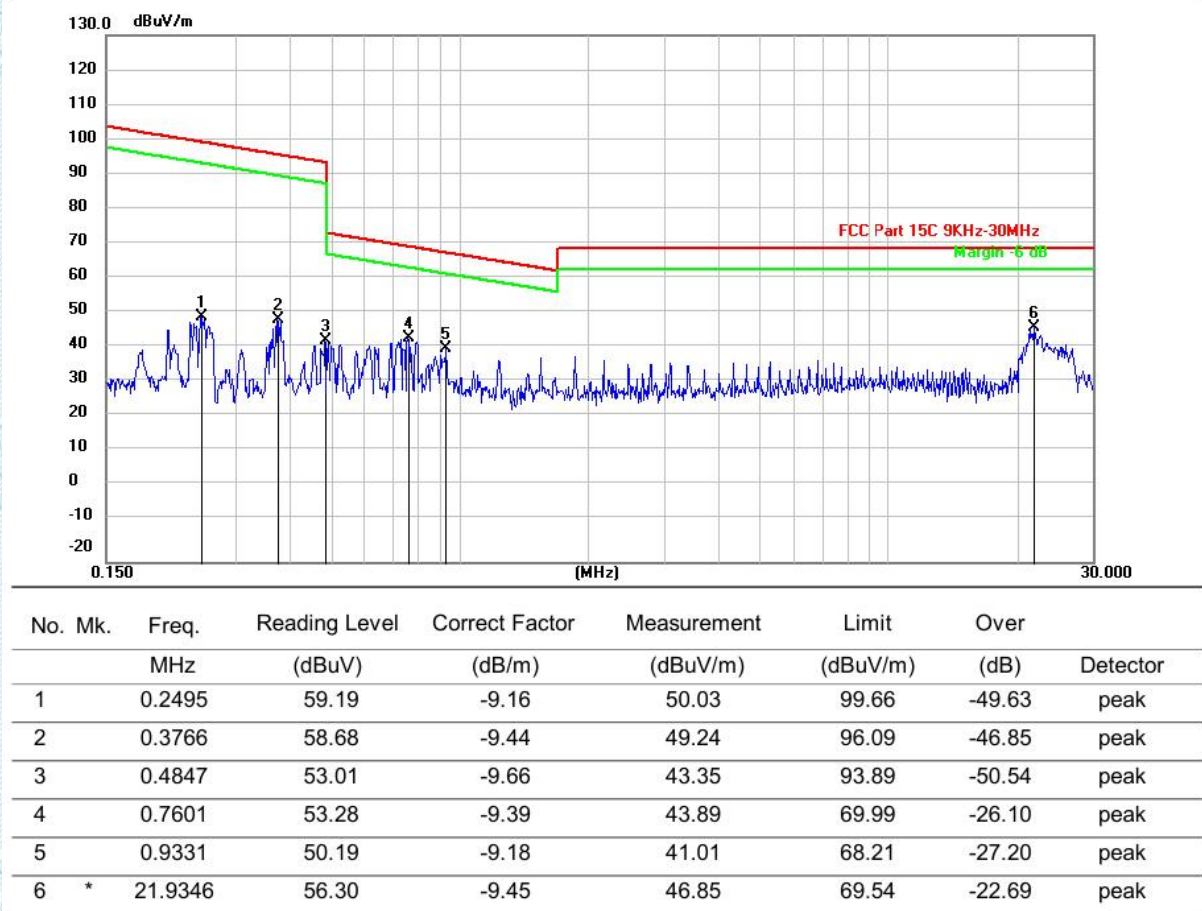
Test Mode1 / Side / 9KHz-150KHz


No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1		0.0722	52.20	-9.14	43.06	110.43	-67.37	peak
2		0.0858	44.29	-8.66	35.63	108.93	-73.30	peak
3		0.1082	44.24	-8.42	35.82	106.92	-71.10	peak
4		0.1179	59.07	-8.77	50.30	106.17	-55.87	peak
5		0.1333	60.81	-9.23	51.58	105.11	-53.53	peak
6	*	0.1440	87.29	-9.05	78.24	104.44	-26.20	peak

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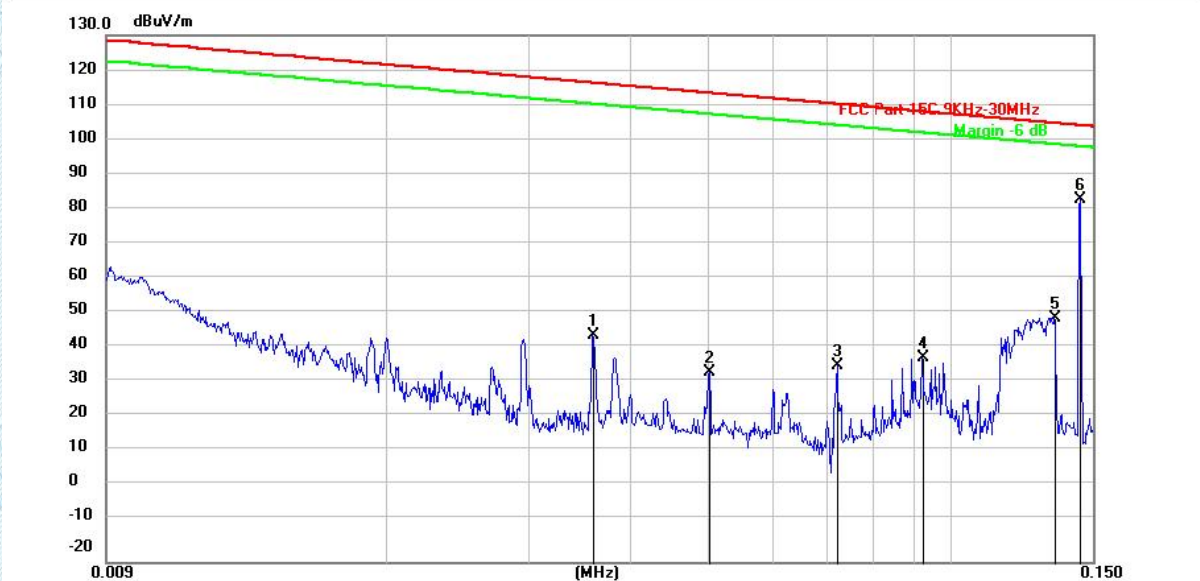
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Test Mode1 / Side / 150KHz-30MHz


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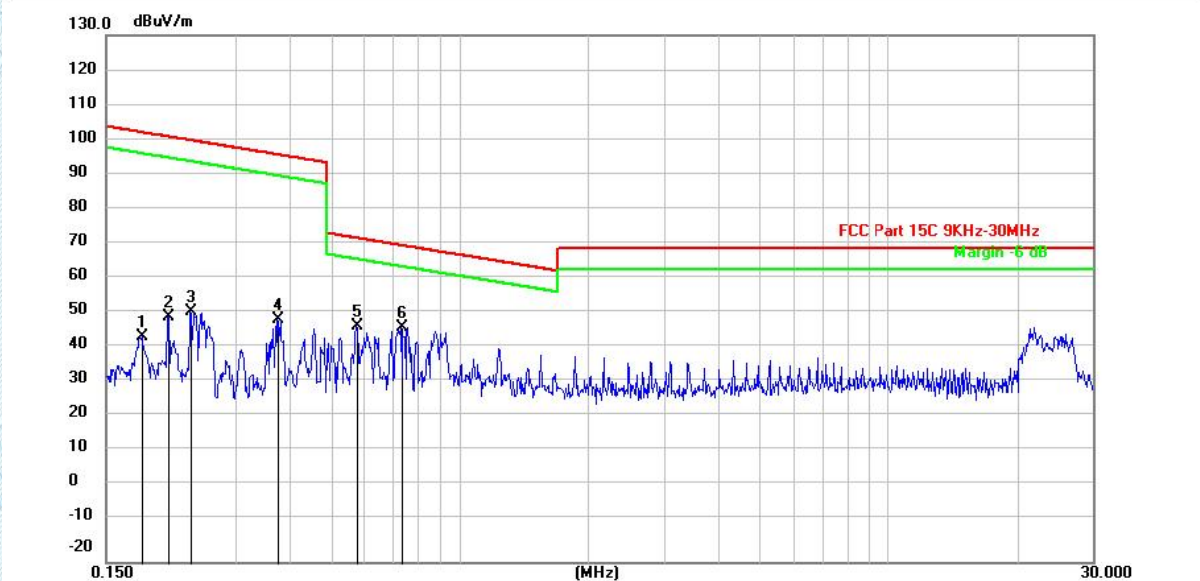
Test Mode5 / Face / 9KHz-150KHz


No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1		0.0361	53.93	-9.14	44.79	116.45	-71.66	peak
2		0.0502	43.02	-8.86	34.16	113.59	-79.43	peak
3		0.0722	45.32	-9.14	36.18	110.43	-74.25	peak
4		0.0922	46.81	-8.49	38.32	108.31	-69.99	peak
5		0.1345	58.96	-9.21	49.75	105.03	-55.28	peak
6	*	0.1446	92.52	-9.04	83.48	104.40	-20.92	peak

TRF RF_R1

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Test Mode5 / Face / 150KHz-30MHz


No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1		0.1816	53.43	-9.01	44.42	102.42	-58.00	peak
2		0.2093	58.85	-9.08	49.77	101.19	-51.42	peak
3		0.2363	60.70	-9.14	51.56	100.13	-48.57	peak
4		0.3765	58.68	-9.44	49.24	96.09	-46.85	peak
5		0.5783	56.74	-9.60	47.14	72.36	-25.22	peak
6	*	0.7324	56.36	-9.42	46.94	70.31	-23.37	peak

TRF RF_R1

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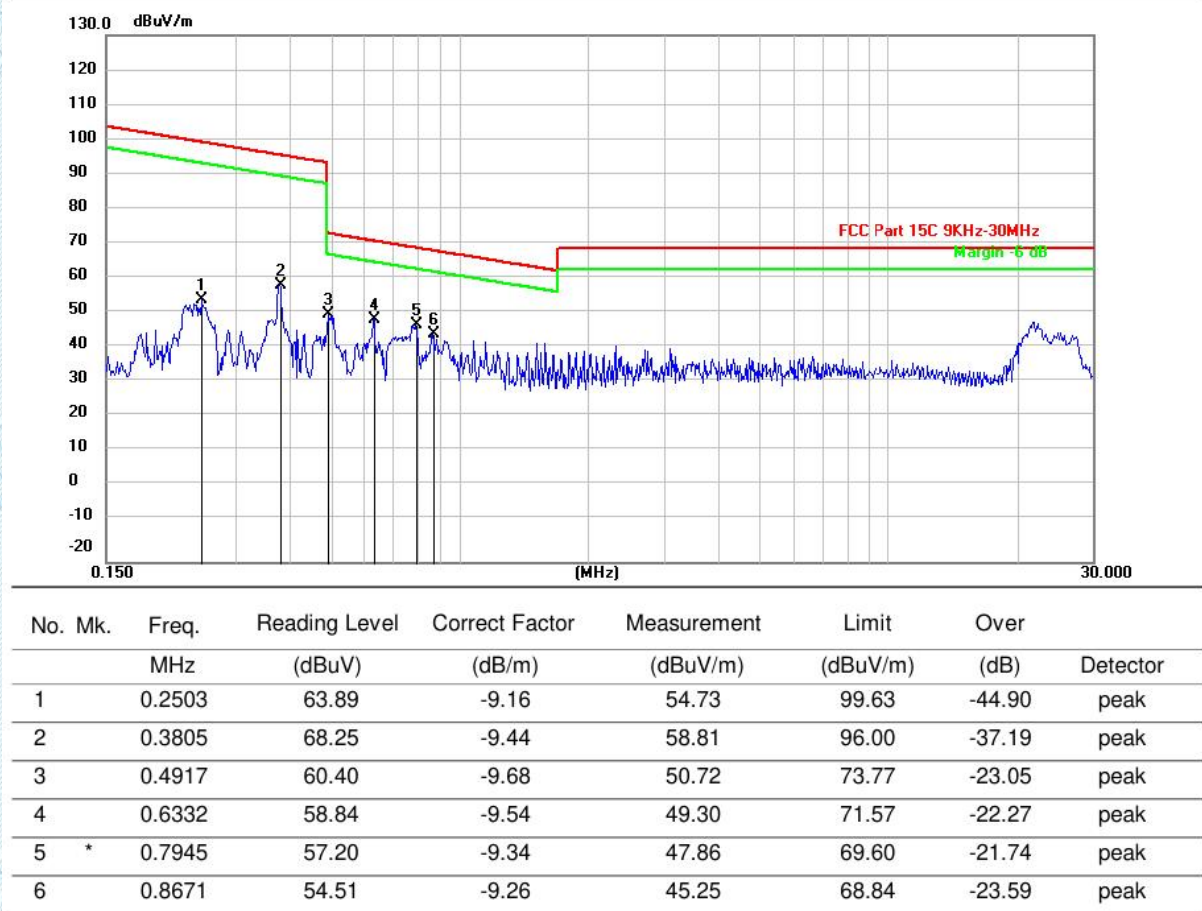
Test Mode5 / Side / 9KHz-150KHz


No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1		0.0722	49.70	-9.14	40.56	110.43	-69.87	peak
2		0.0858	47.79	-8.66	39.13	108.93	-69.80	peak
3		0.0931	52.02	-8.48	43.54	108.23	-64.69	peak
4		0.1082	44.24	-8.42	35.82	106.92	-71.10	peak
5		0.1247	59.20	-9.06	50.14	105.69	-55.55	peak
6	*	0.1446	89.02	-9.04	79.98	104.40	-24.42	peak

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Test Mode5 / Side / 150KHz-30MHz


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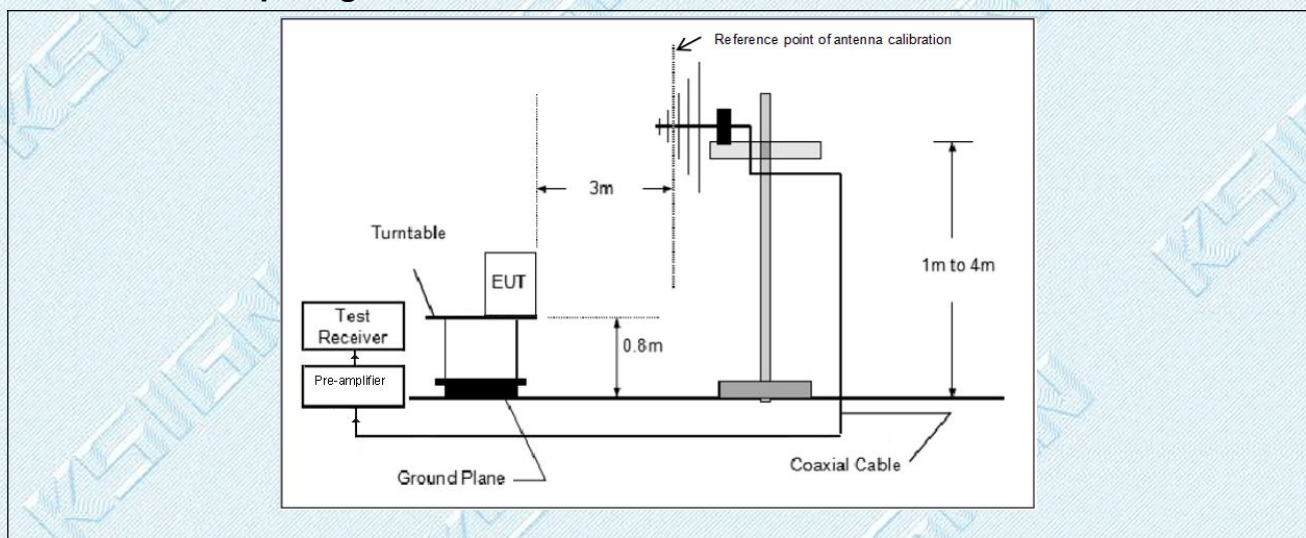
4.3. Emissions in frequency bands (30MHz - 1GHz)

Test Requirement:	47 CFR 15.209		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** 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.			
Test Method:	Radiated emissions tests		
Procedure:	ANSI C63.10-2013 section 6.6.4		

4.3.1. E.U.T. Operation:

Operating Environment:	
Temperature:	25.1 °C
Humidity:	52.5 %
Atmospheric Pressure:	102 kPa
Final test mode:	Test Mode1, Test Mode2, Test Mode3, Test Mode4, Test Mode5, Test Mode6, Test Mode7, Test Mode8, Test Mode9

4.3.2. Test Setup Diagram:



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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)

4.3.3. Test Data:

Test Mode1 / Polarization: Horizontal



No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1		73.6427	47.25	-20.03	27.22	40.00	-12.78	QP
2		112.1697	47.91	-18.68	29.23	43.50	-14.27	QP
3		148.0252	52.59	-21.04	31.55	43.50	-11.95	QP
4		206.9773	51.38	-18.64	32.74	43.50	-10.76	QP
5		241.1682	52.67	-17.71	34.96	46.00	-11.04	QP
6	*	363.8765	53.84	-11.95	41.89	46.00	-4.11	QP

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Test Mode1 / Polarization: Vertical


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5. EUT TEST PHOTOS

Conducted Emission at AC power line



Emissions in frequency bands (below 30MHz)



Emissions in frequency bands (30MHz - 1GHz)

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6. PHOTOGRAPHS OF EUT CONSTRUCTIONAL

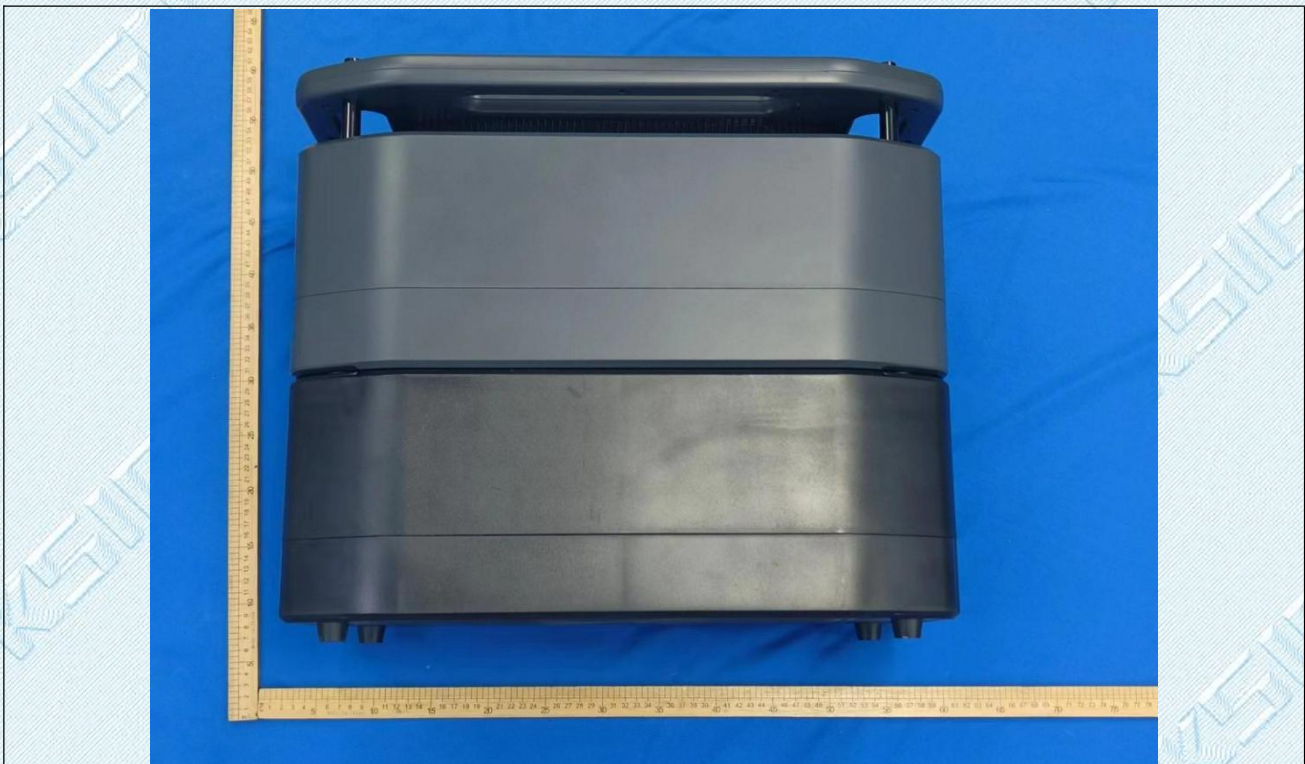
External



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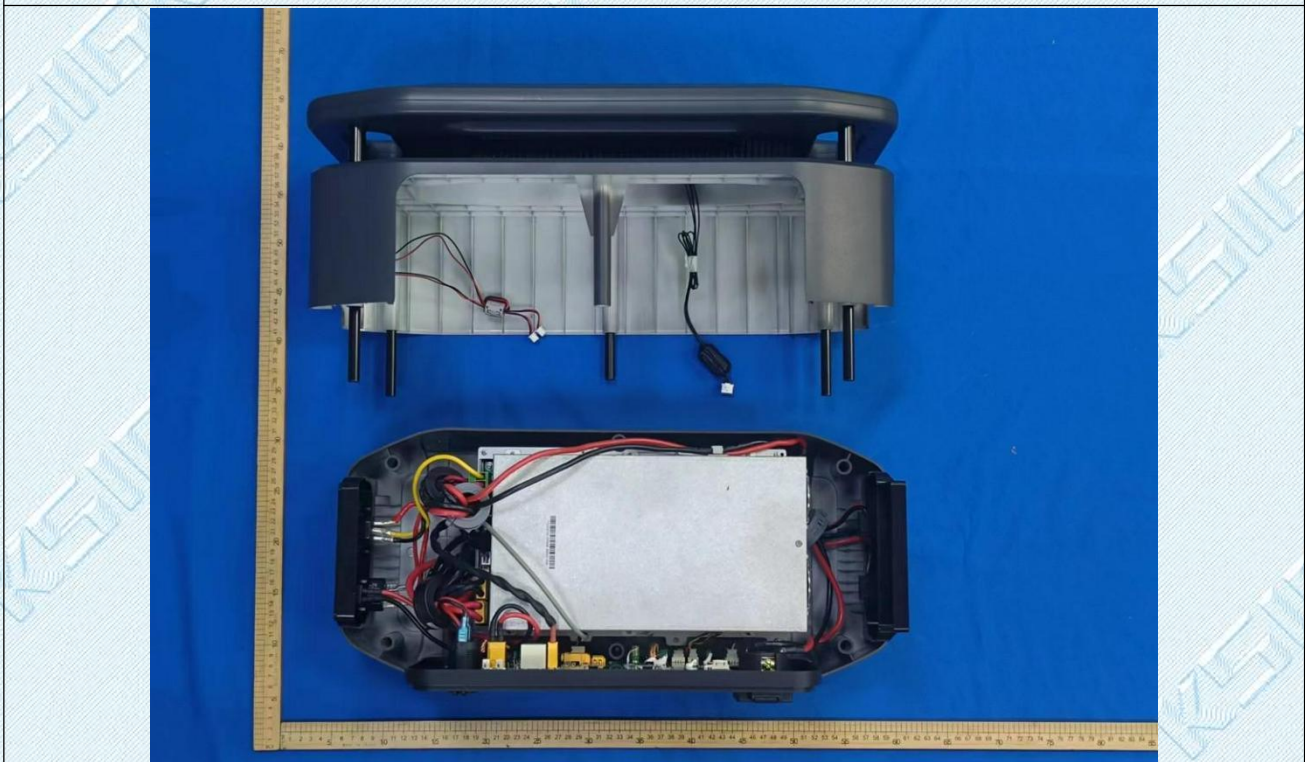
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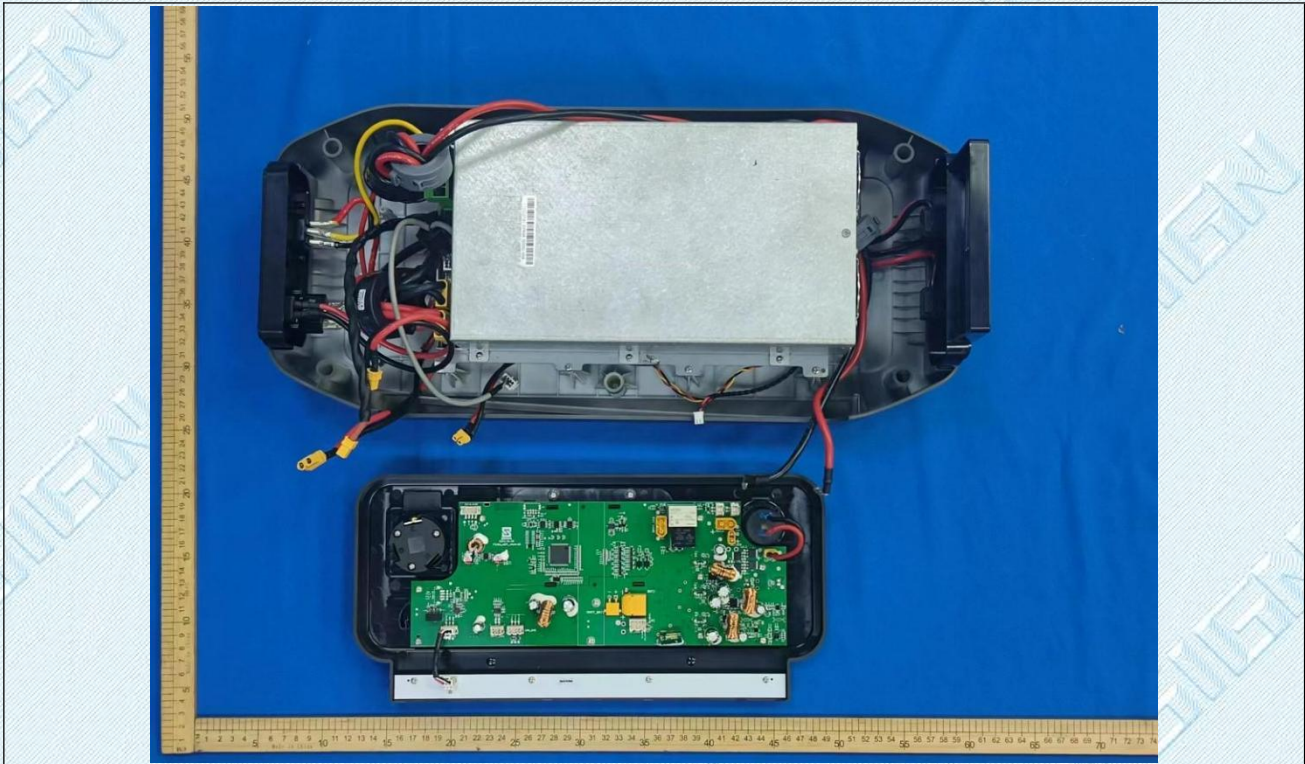
Internal



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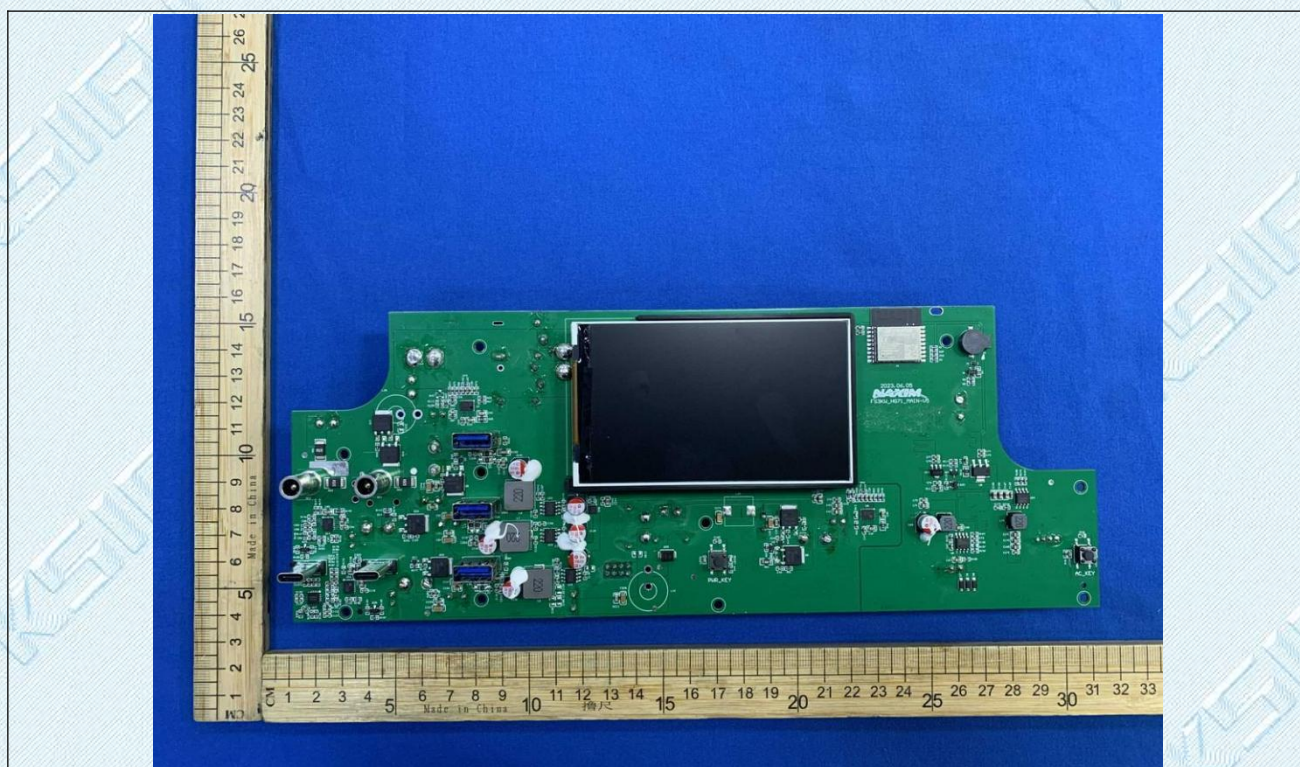
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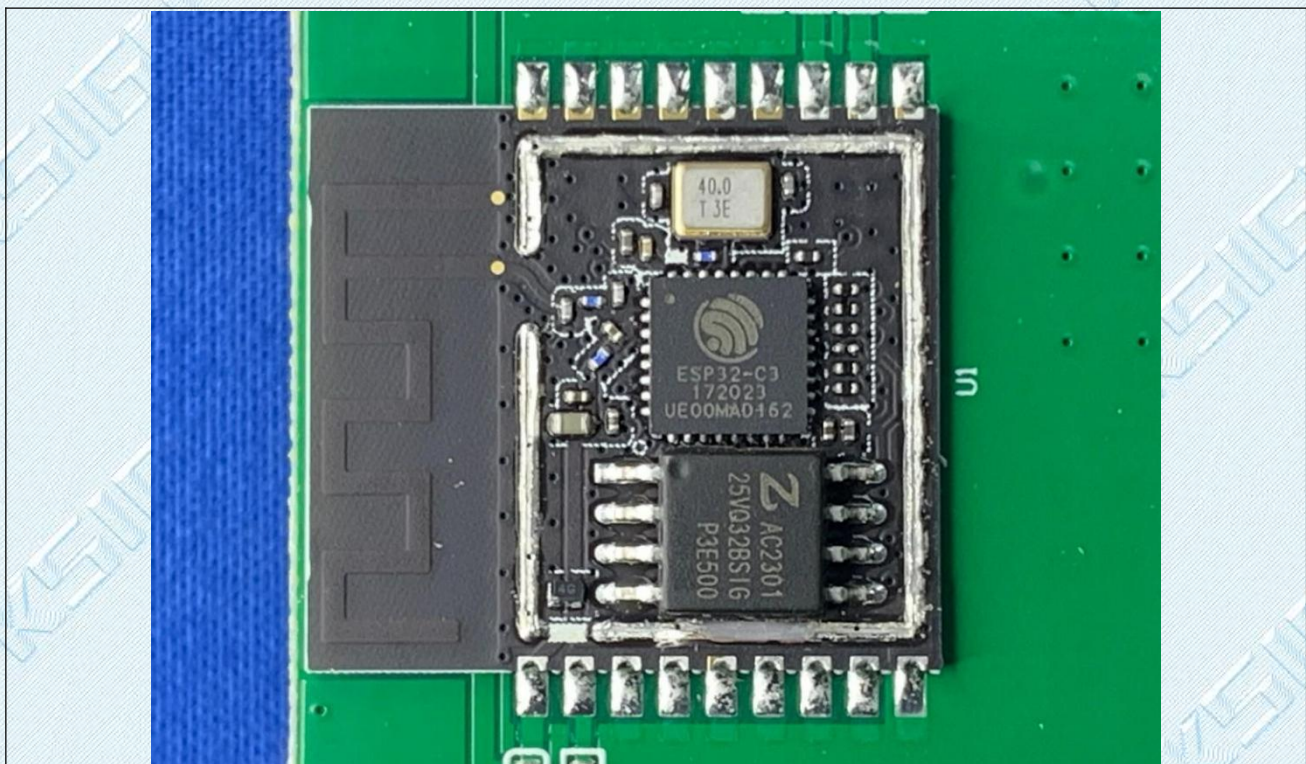
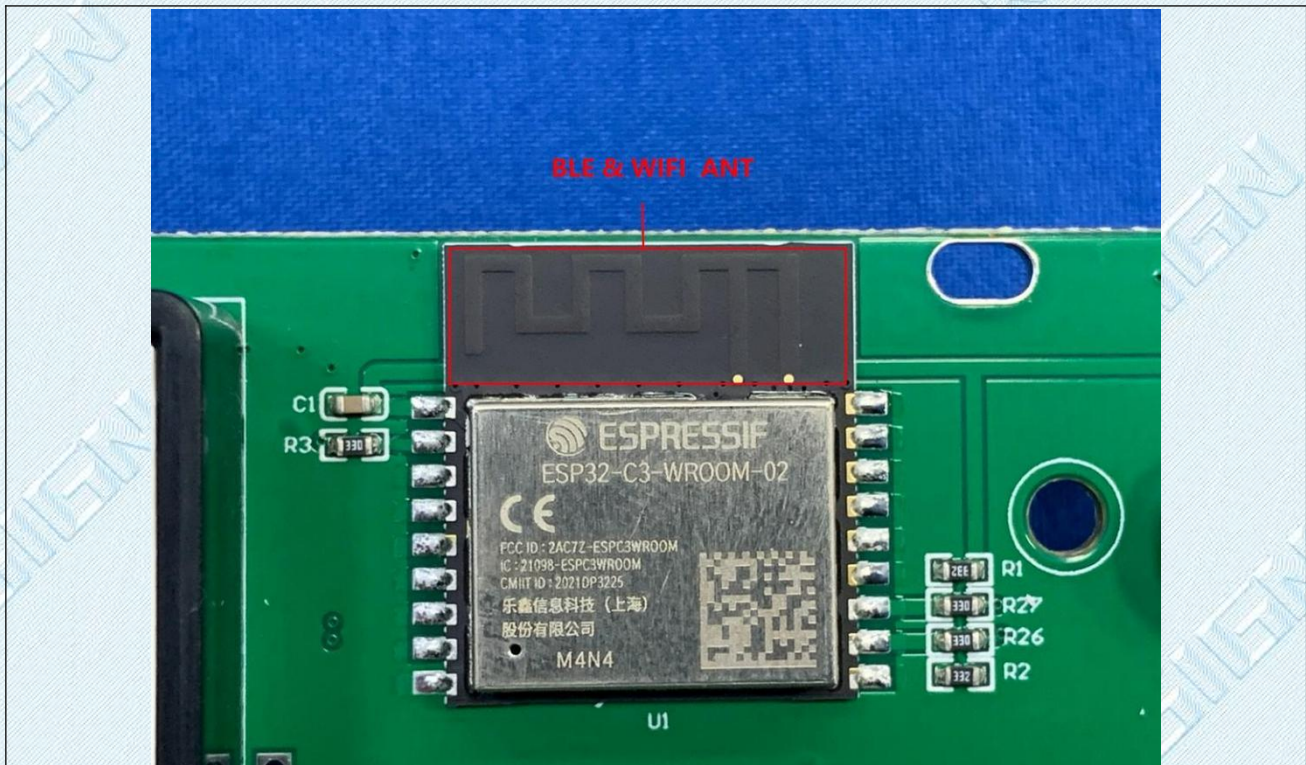
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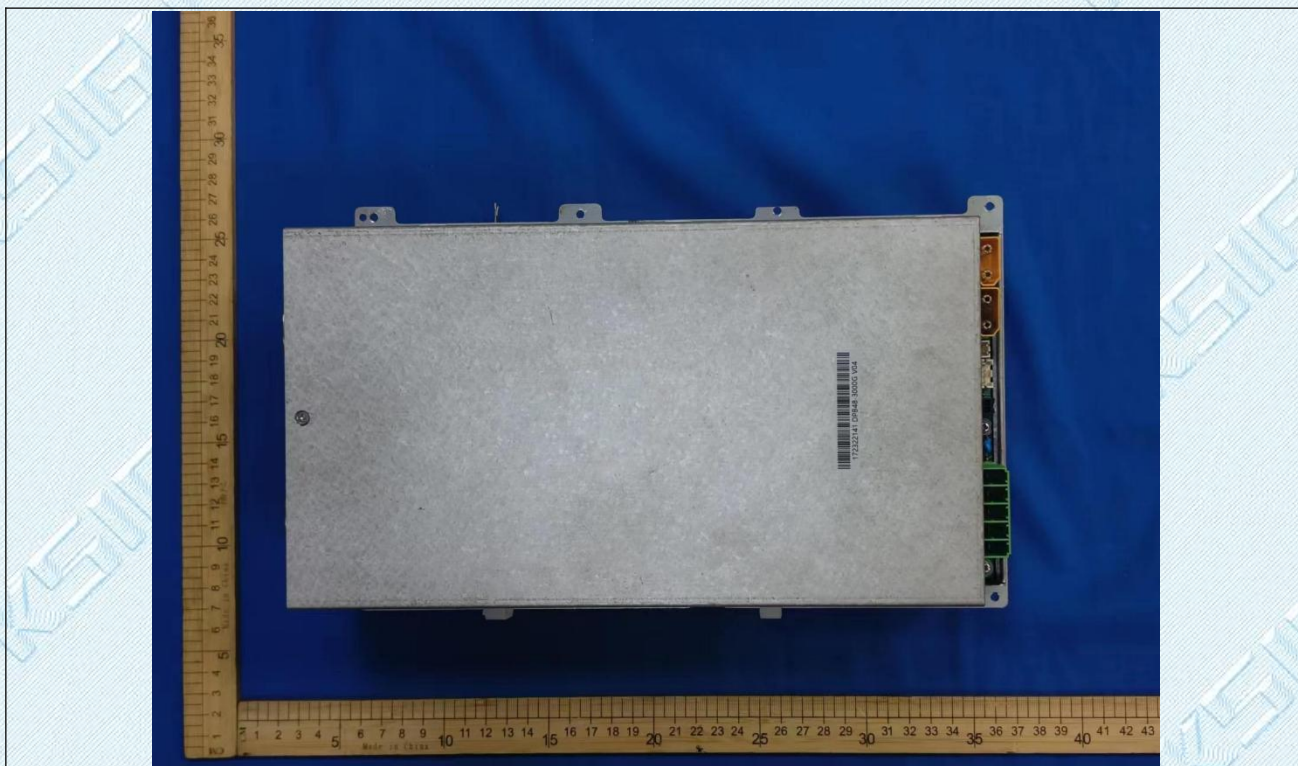
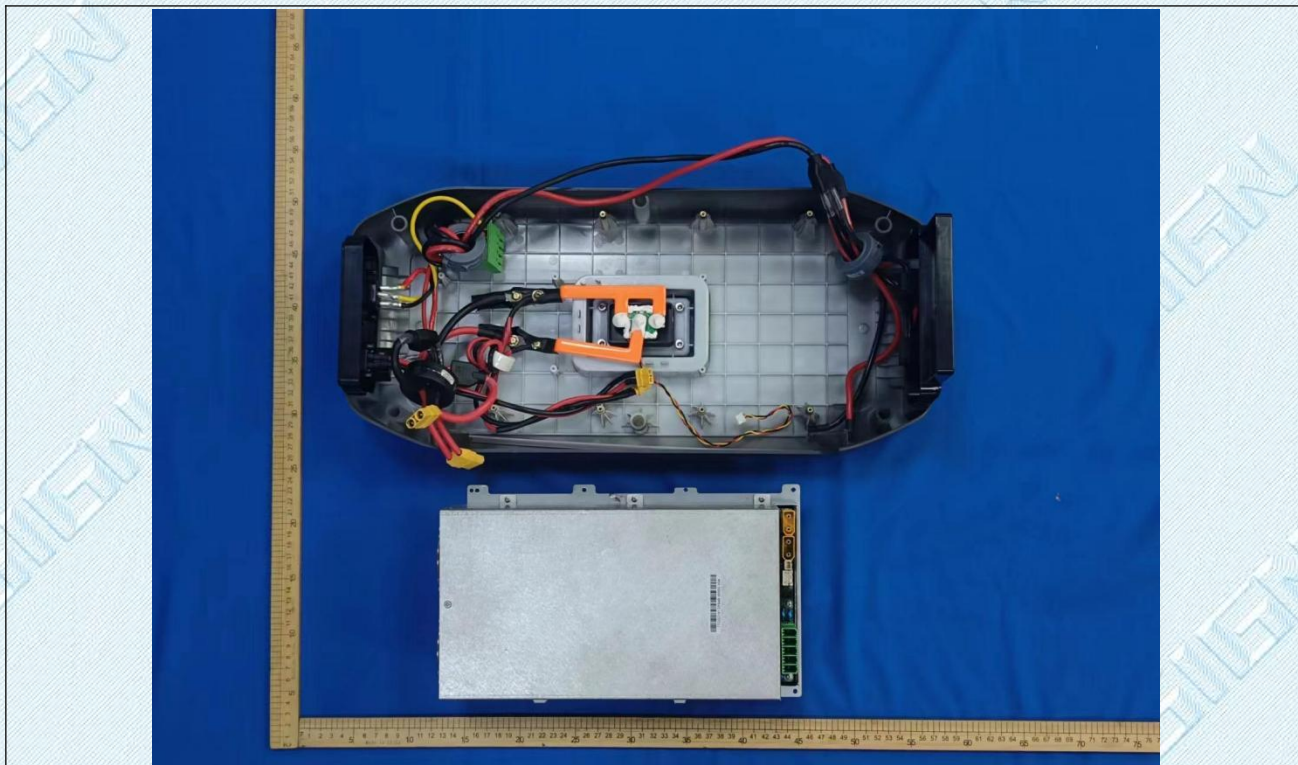
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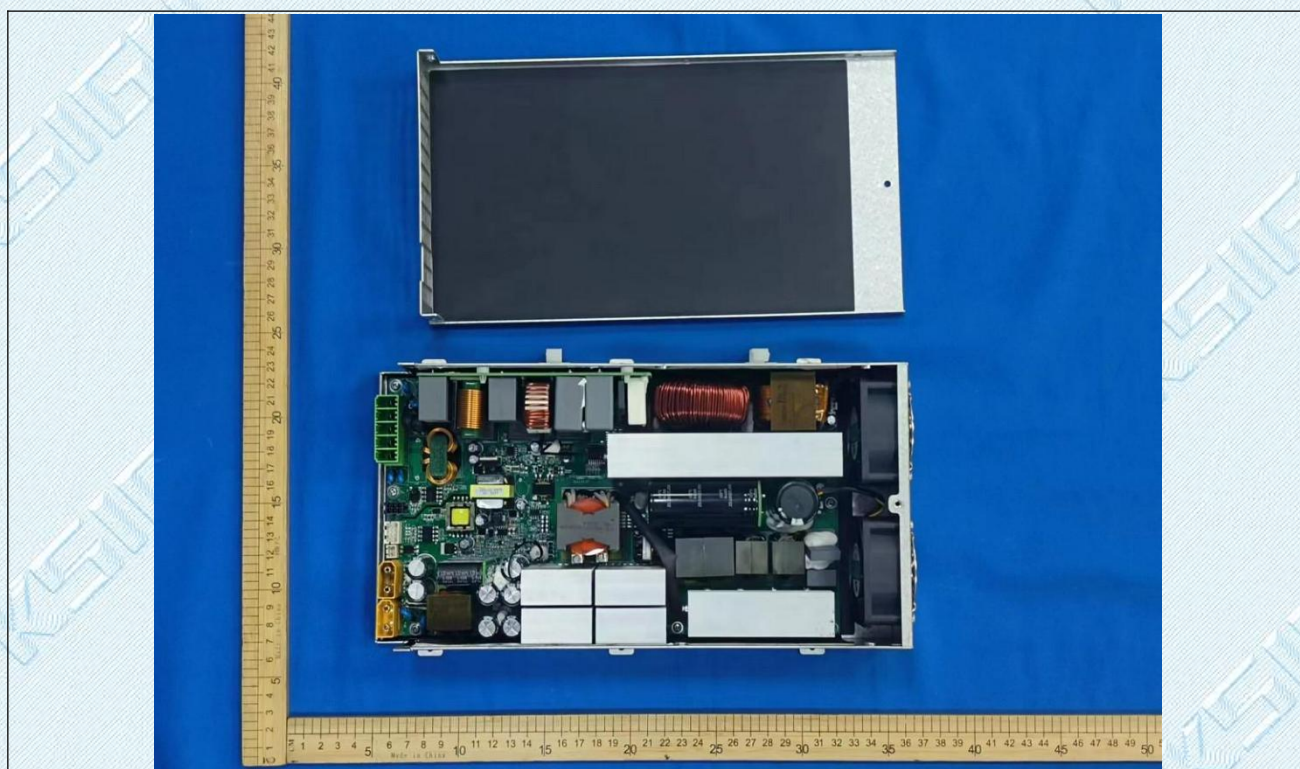
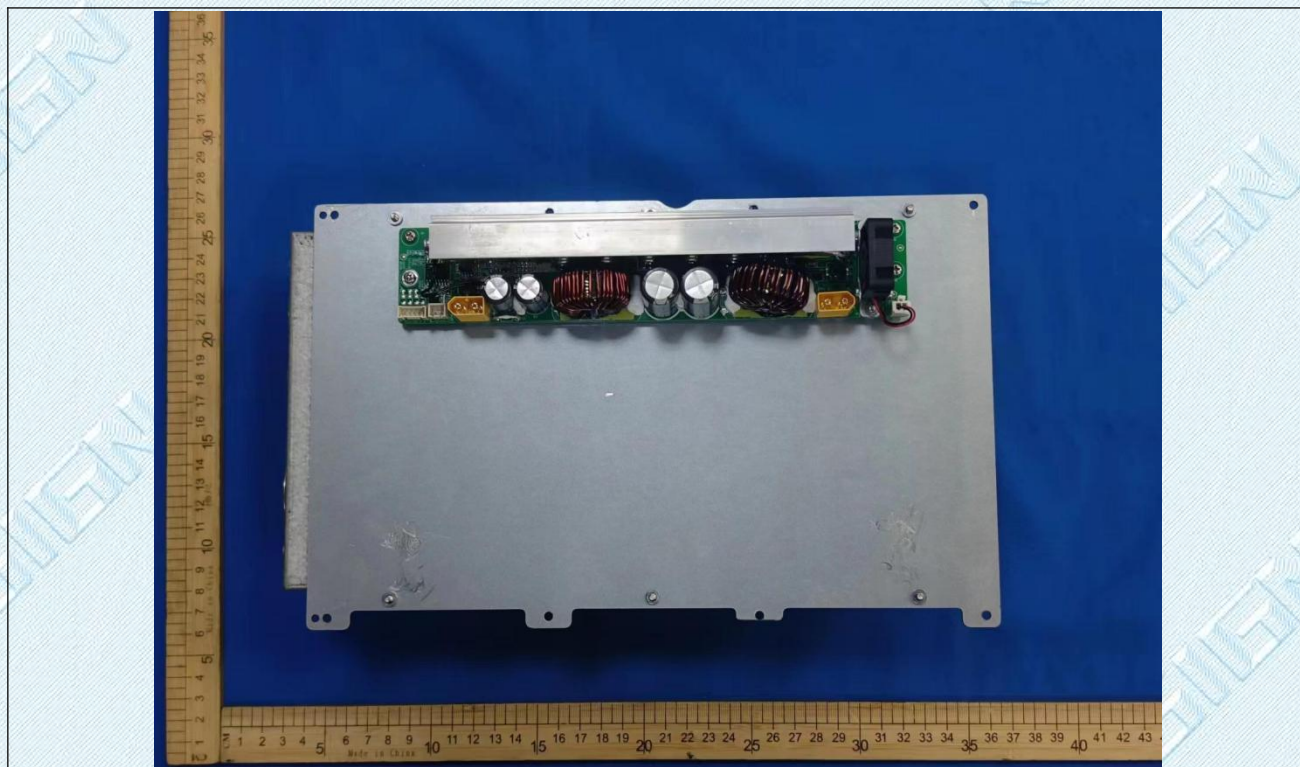
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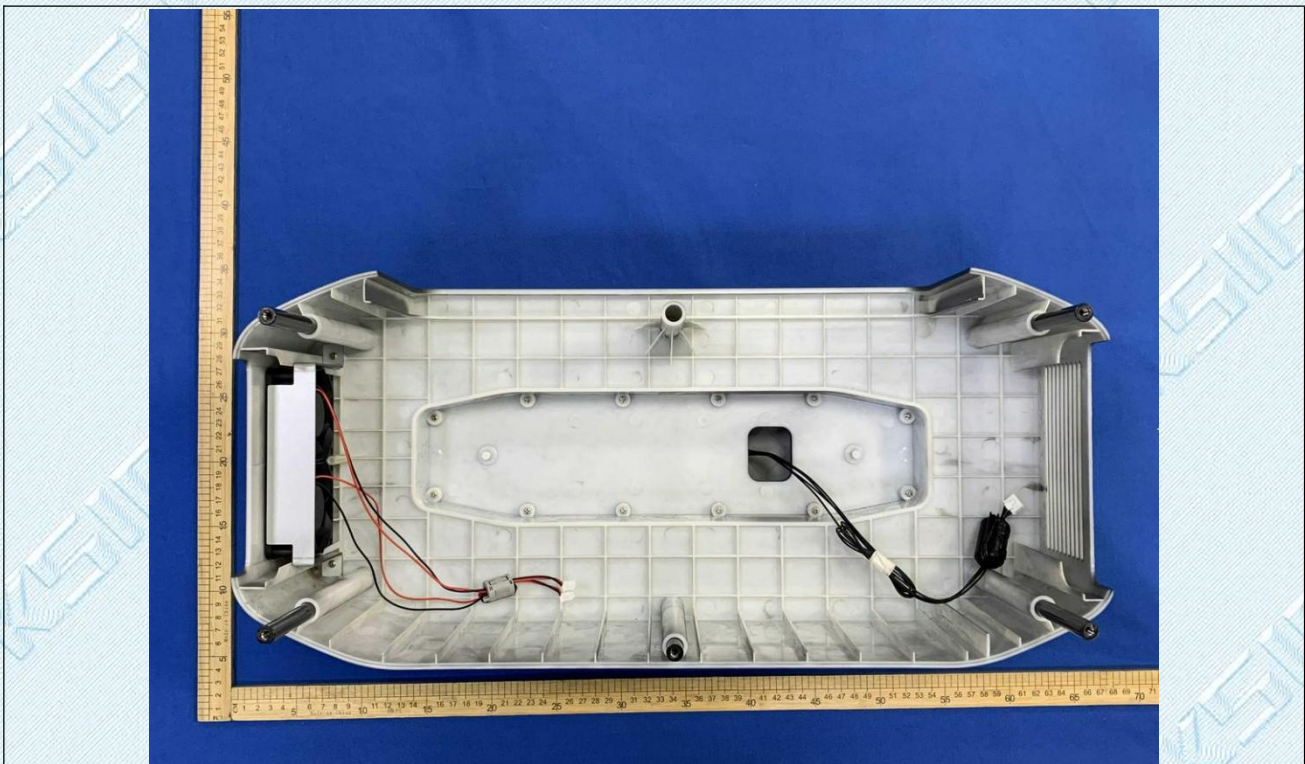
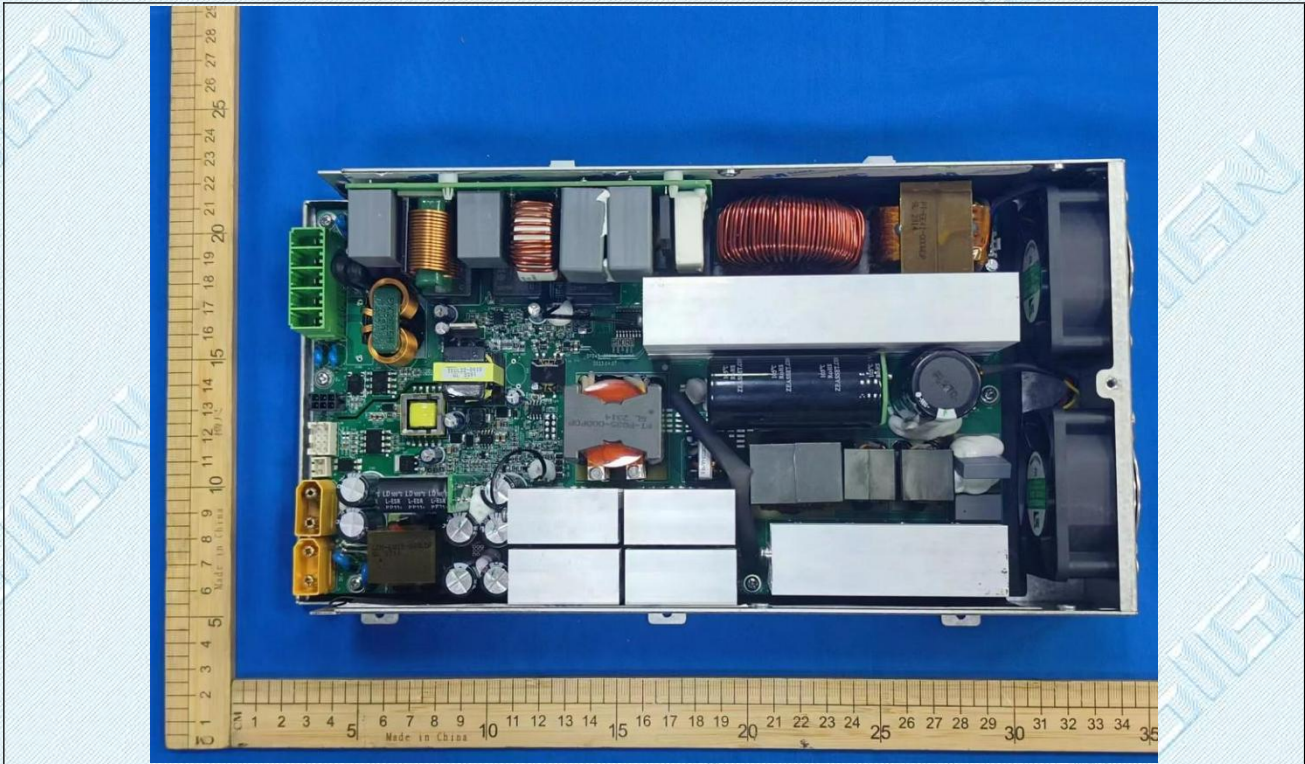
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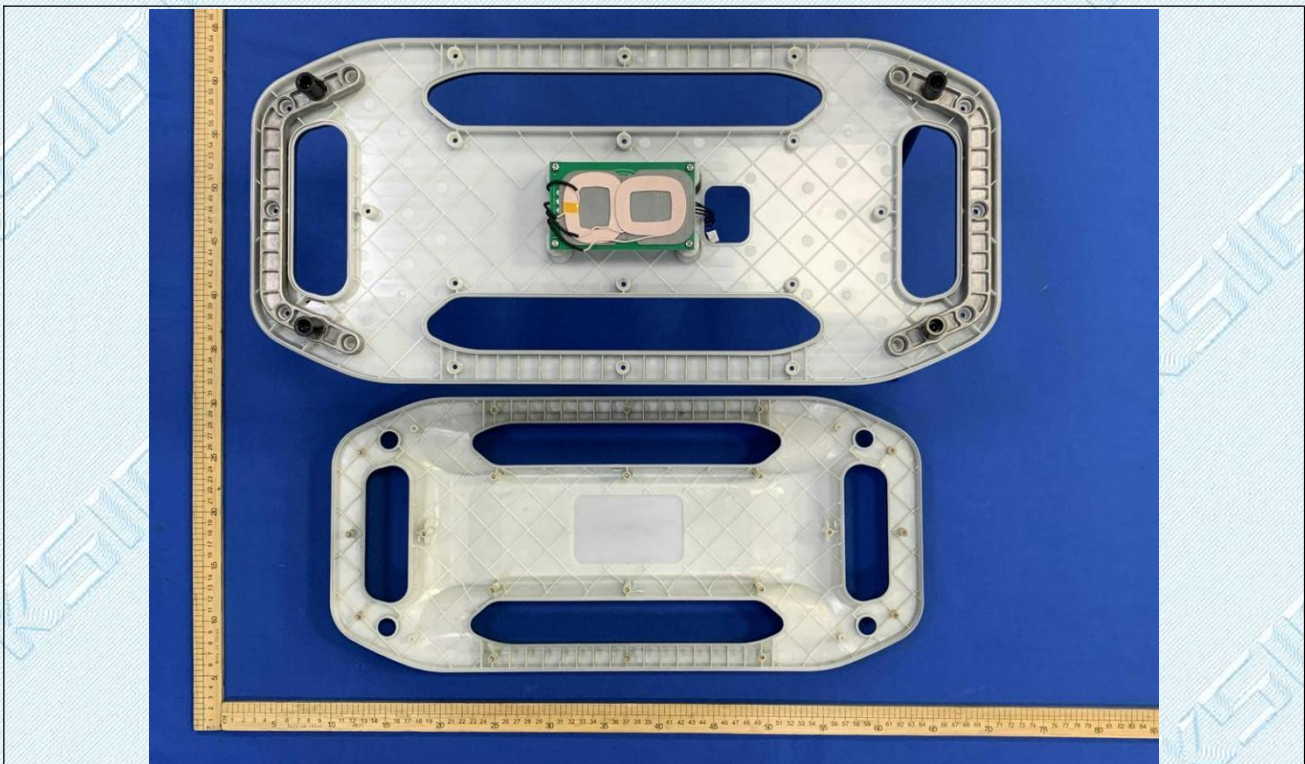
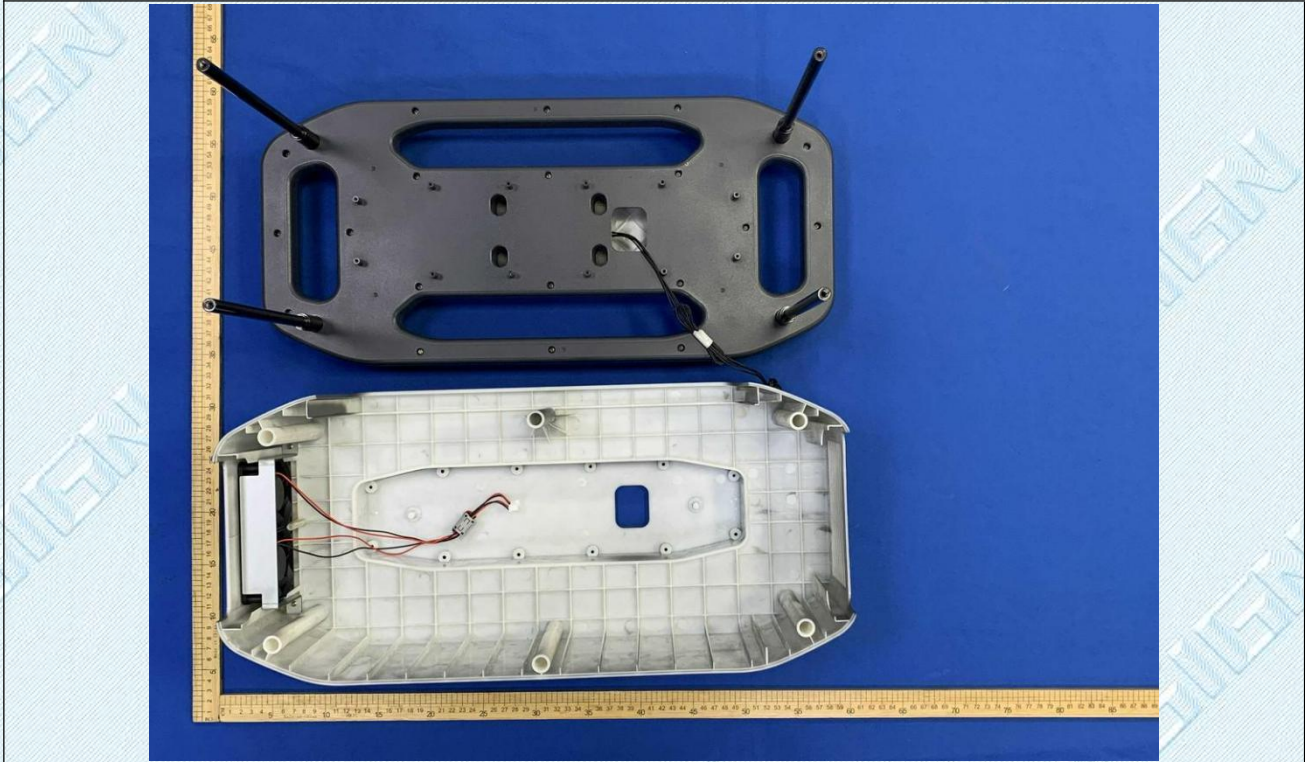
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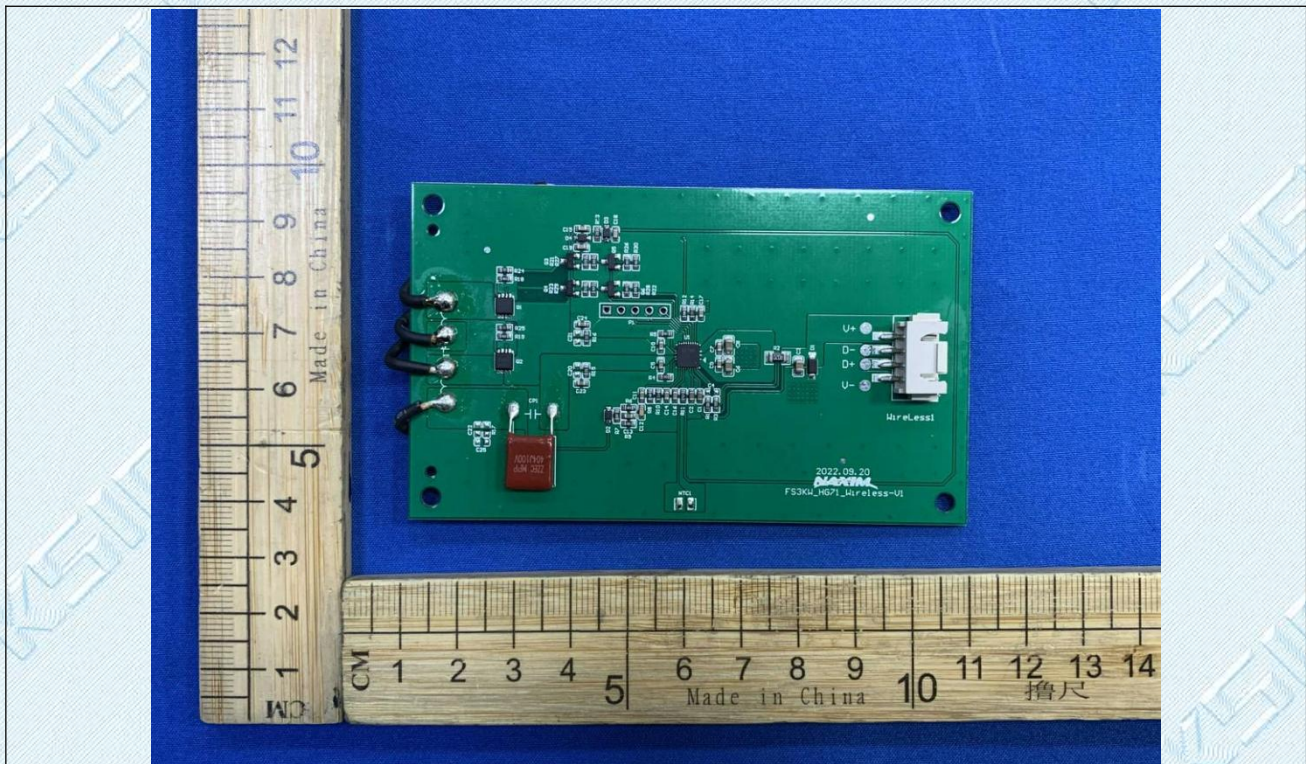
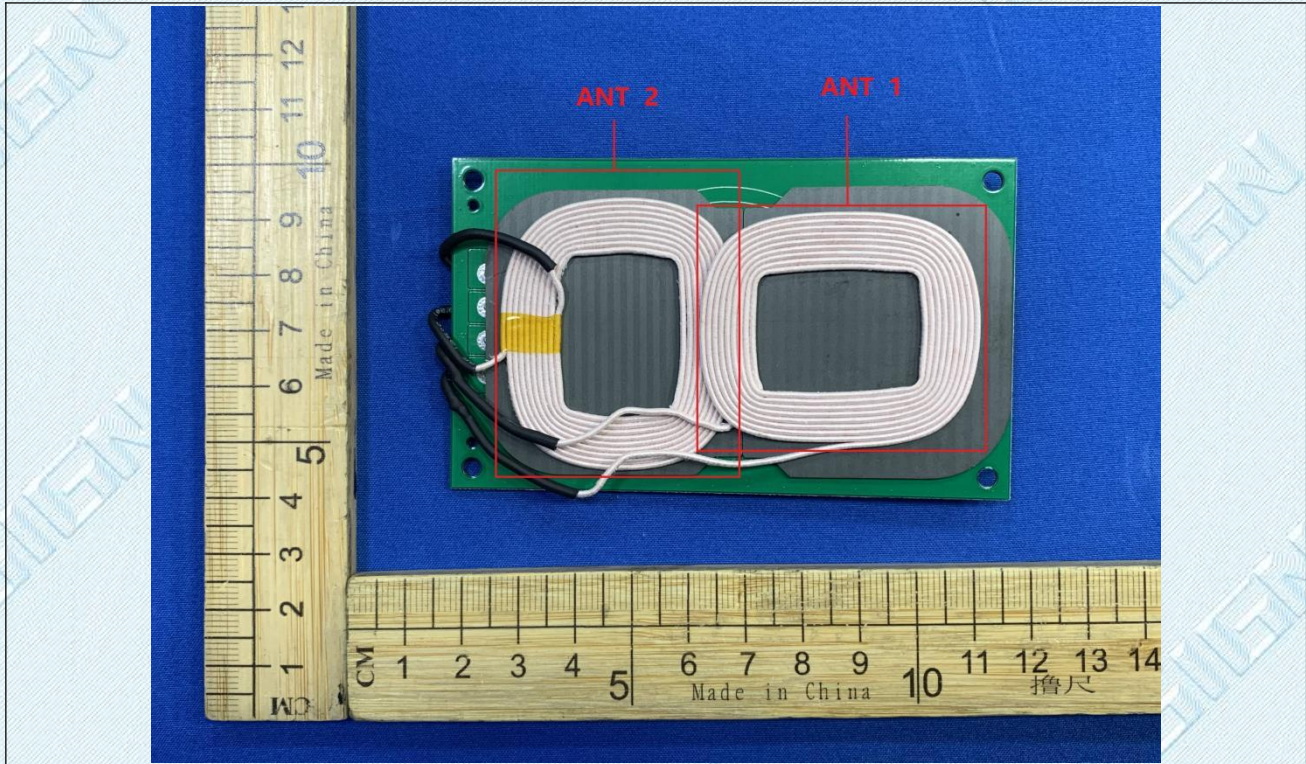
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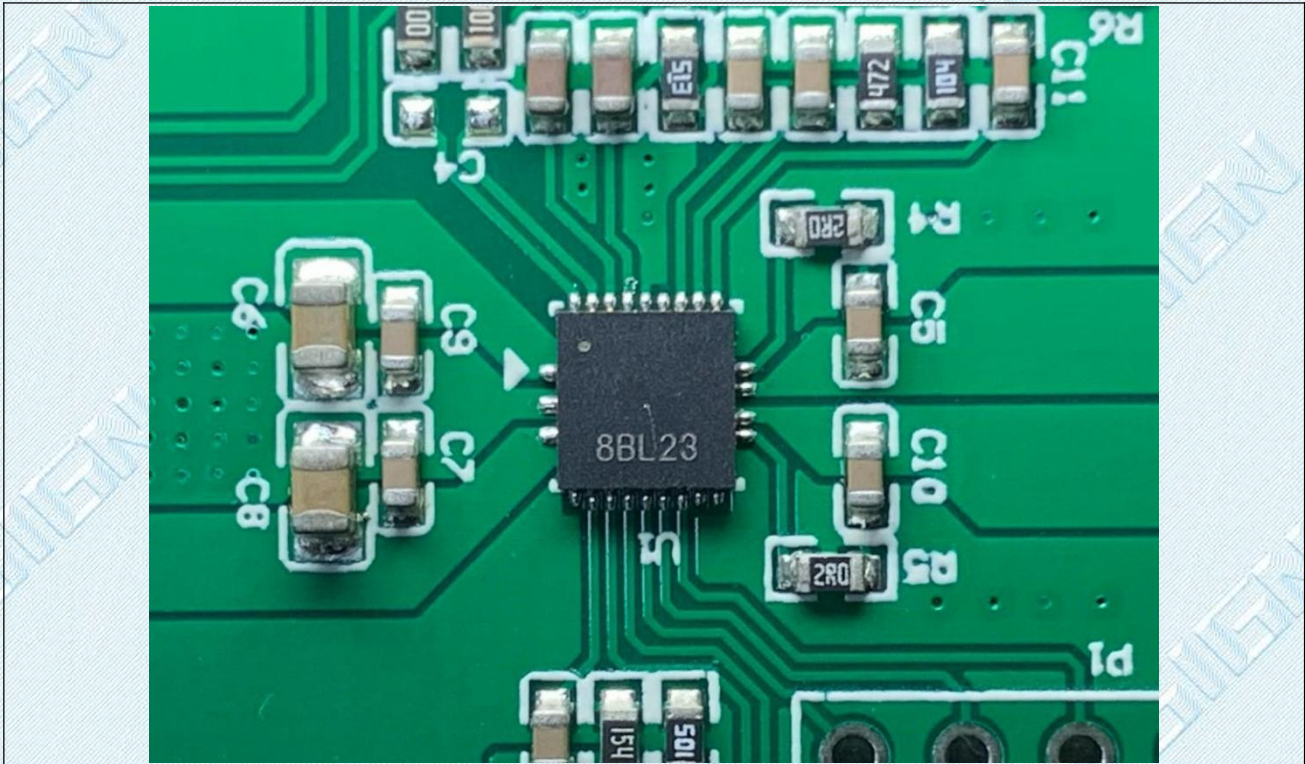
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--THE END--