

FCC TEST REPORT

Client Name : ShenZhen CTECHI Technology Co., Ltd.

Address : 601, 701, 801, Building 5, Jiada Industrial Park, Honghu
East Road, Yanchuan Community, Yanluo Street, Baoan
District, Shenzhen City, China

Product Name : Portable Power Station

Date : Apr. 25, 2022



Shenzhen Anbotech Compliance Laboratory Limited

Shenzhen Anbotech Compliance Laboratory Limited

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TEST REPORT

Applicant : ShenZhen CTECHI Technology Co., Ltd.
Manufacturer : ShenZhen CTECHI Technology Co., Ltd.
Product Name : Portable Power Station
Model No. : GT500, GT500SPro, GT500S, T500, T500SPro, T500S, G500, G500SPro, G500S
Trade Mark : N.A
Rating(s) : Input: DC 27V, 4.5A(with DC 19.2V, 27000mAh battery inside)
Wireless Output: 5V/2A, 10W*2

Test Standard(s) : FCC Part15 Subpart C, Paragraph 15.209
Test Method(s) : ANSI C63.10: 2020

The device described above is tested by Shenzhen Anbotech Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotech Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotech Compliance Laboratory Limited.

Date of Receipt

Feb. 18, 2022

Date of Test

Feb. 18~ Mar. 26, 2022

Prepared By

Tu Tu Hong

(TuTu Hong)

Approved & Authorized Signer

Kingkong Jin

(Kingkong Jin)

1. General Information

1.1. Client Information

Applicant	:	ShenZhen CTECHI Technology Co., Ltd.
Address	:	601, 701, 801, Building 5, Jiada Industrial Park, Honghu East Road, Yanchuan Community, Yanluo Street, Baoan District, Shenzhen City, China
Manufacturer	:	ShenZhen CTECHI Technology Co., Ltd.
Address	:	601, 701, 801, Building 5, Jiada Industrial Park, Honghu East Road, Yanchuan Community, Yanluo Street, Baoan District, Shenzhen City, China
Factory	:	ShenZhen CTECHI Technology Co., Ltd.
Address	:	601, 701, 801, Building 5, Jiada Industrial Park, Honghu East Road, Yanchuan Community, Yanluo Street, Baoan District, Shenzhen City, China

1.2. Description of Device (EUT)

Product Name	:	Portable Power Station	
Model No.	:	GT500, GT500SPro, GT500S, T500, T500SPro, T500S, G500, G500SPro, G500S (Note: All samples are the same except the Color and Sales area, so we prepare “GT500” for test only.)	
Trade Mark	:	N.A	
Test Power Supply	:	AC 120V, 60Hz for adapter/AC 240V, 60Hz for adapter /DC 19.2V battery inside	
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)	
Product Description	:	Operation Frequency:	110.1-205KHz
	:	Modulation Type:	FSK
	:	Antenna Type:	Inductive loop coil Antenna
	:	Antenna Gain(Peak):	0 dBi (Provided by customer)
	:	Adapter:	Model: AK120WG-2700450W2 Input:100-240V~50/60Hz 2.0A Output: DC 27V, 4.5A 121.5W
Remark: 1) For a more detailed features description, please refer to the manufacturer’s specifications or the User’s Manual.			

1.3. Auxiliary Equipment Used During Test

Wireless charging load	:	Manufacturer: Shenzhen Ouju Technology Co., Ltd. M/N: CD2577 Power: 5W/7.5W/10W/15W Last Cal.: Oct. 26, 2020 Cal. Interval: 1 Year
Wireless charging load	:	Manufacturer: Shenzhen Ouju Technology Co., Ltd. M/N: CD2874 Power: 5W/7.5W/10W/15W Last Cal.: Oct. 26, 2020 Cal. Interval: 1 Year

1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Charging & Wireless Charging Mode (20W)
Mode 2	Wireless Charging Mode (20W)

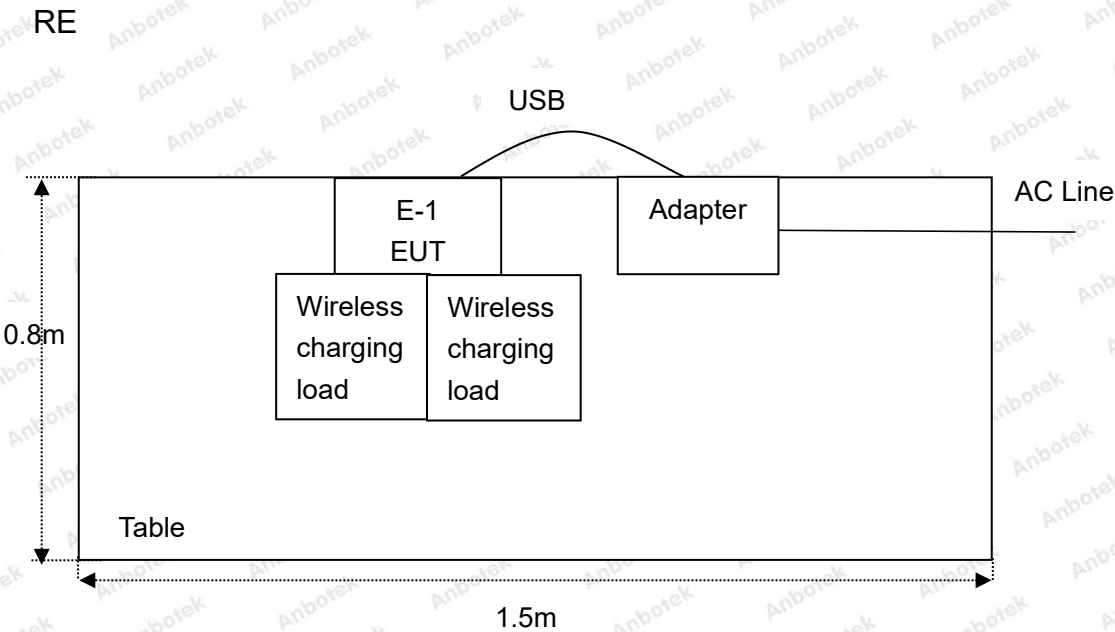
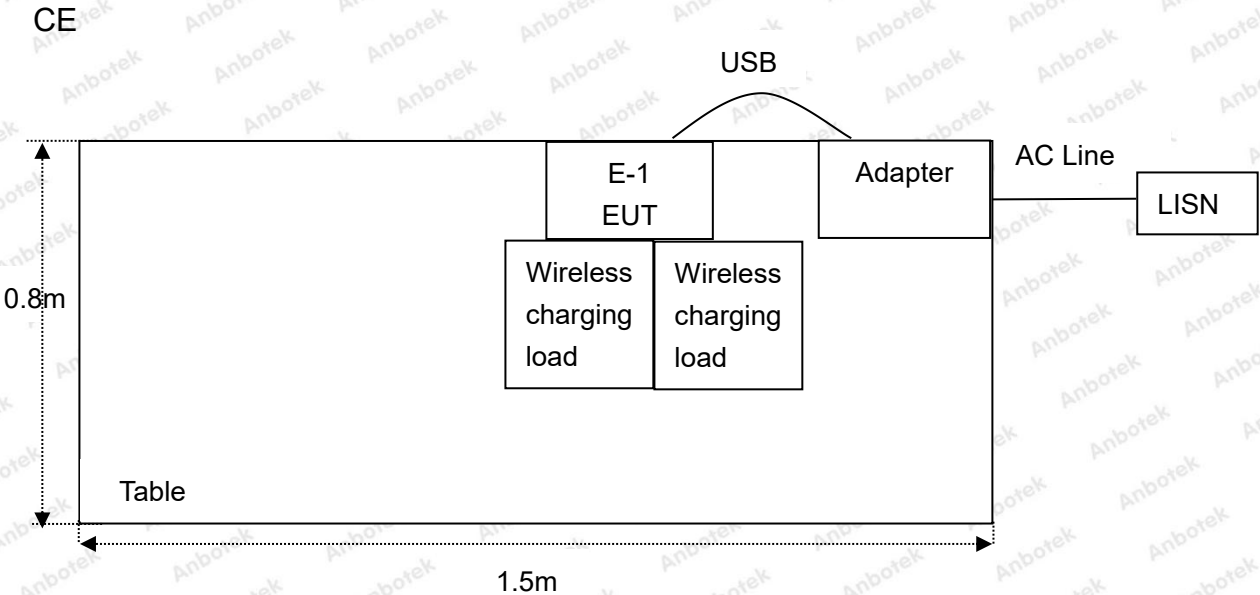
For Conducted Emission	
Final Test Mode	Description
Mode 1	Charging & Wireless Charging Mode (20W)

For Radiated Emission	
Final Test Mode	Description
Mode 1	Charging & Wireless Charging Mode (20W)
Mode 2	Wireless Charging Mode (20W)

Note: (1) Test channel is 0.1275MHz.

(2) All the situation(full load, half load and empty load) has been tested, only the worst situation (Mode 1: full load 20W) was recorded in the report.

1.5. Description Of Test Setup



1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	Jul 05, 2021	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 22, 2021	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 22, 2021	1 Year
4.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Oct. 22, 2021	1 Year
5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 22, 2021	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Oct. 22, 2021	1 Year
7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Oct. 22, 2021	2 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Oct. 22, 2021	2 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Oct. 22, 2021	2 Year
10.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Oct. 22, 2021	2 Year
11.	Pre-amplifier	SONOMA	310N	186860	Oct. 22, 2021	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	RF Test Control System	YIHENG	YH3000	2017430	Oct. 22, 2021	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN045	Oct. 22, 2021	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN046	Oct. 22, 2021	1 Year
16.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 22, 2021	1 Year
17.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 22, 2021	1 Year
18.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 22, 2021	1 Year
19.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 22, 2021	1 Year
20.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Oct. 22, 2021	1 Year

1.7. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
		Ur = 3.8 dB (Vertical)
Conduction Uncertainty	:	Uc = 3.4 dB

1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 184111

Shenzhen Anbotech Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111.

ISED-Registration No.: 8058A

Shenzhen Anbotech Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotech Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102

2. Summary of Test Results

Standard Section	Test Item	Result
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS
FCC Part 15, Paragraph 15.209(a)(f)	Spurious Emission	PASS
Part 15.203	Antenna Requirement	PASS

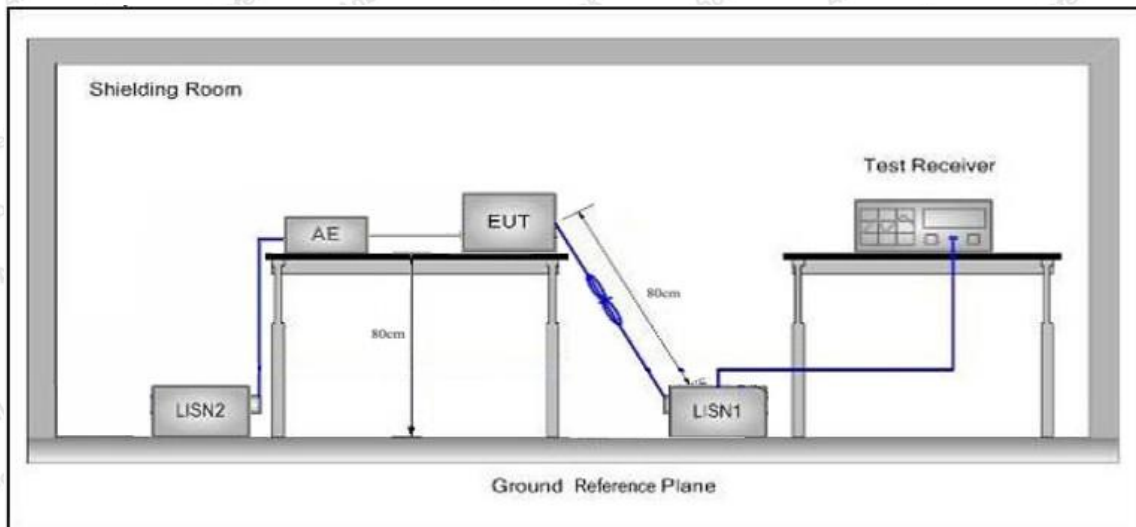
3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50

Remark: (1) *Decreasing linearly with logarithm of the frequency.
(2) The lower limit shall apply at the transition frequency.

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10-2020 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Please to see the following pages

Shenzhen Anbotech Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

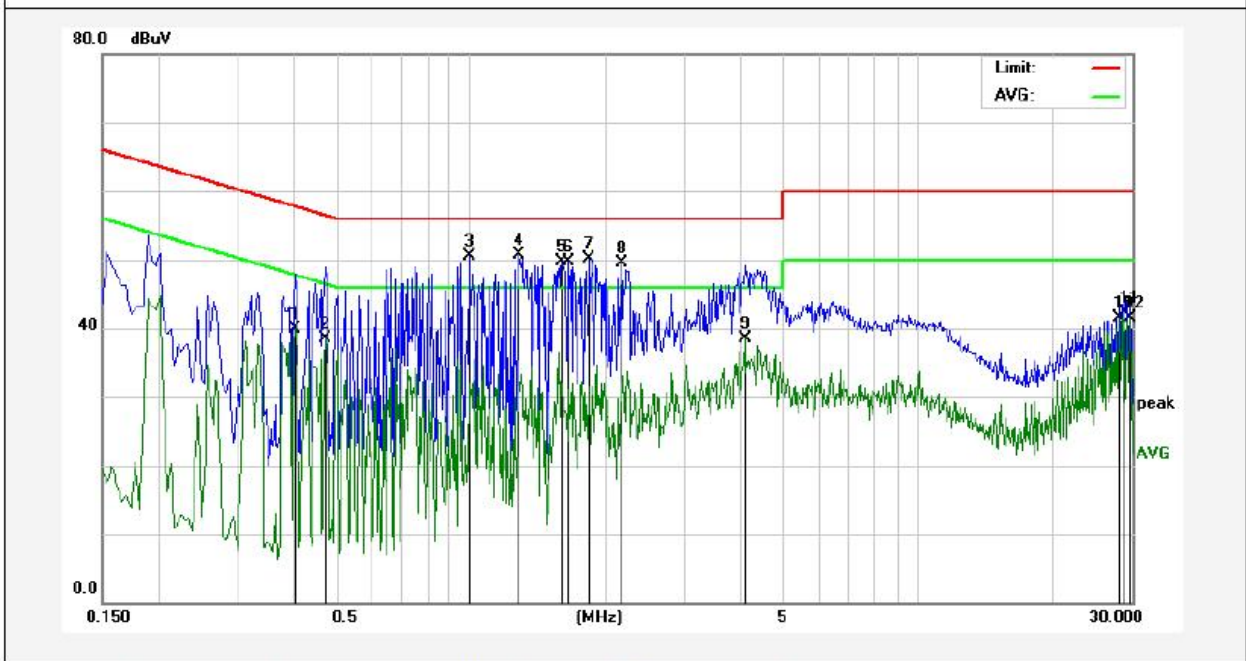
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Code:AB-RF-05-a

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Conducted Emission Test Data

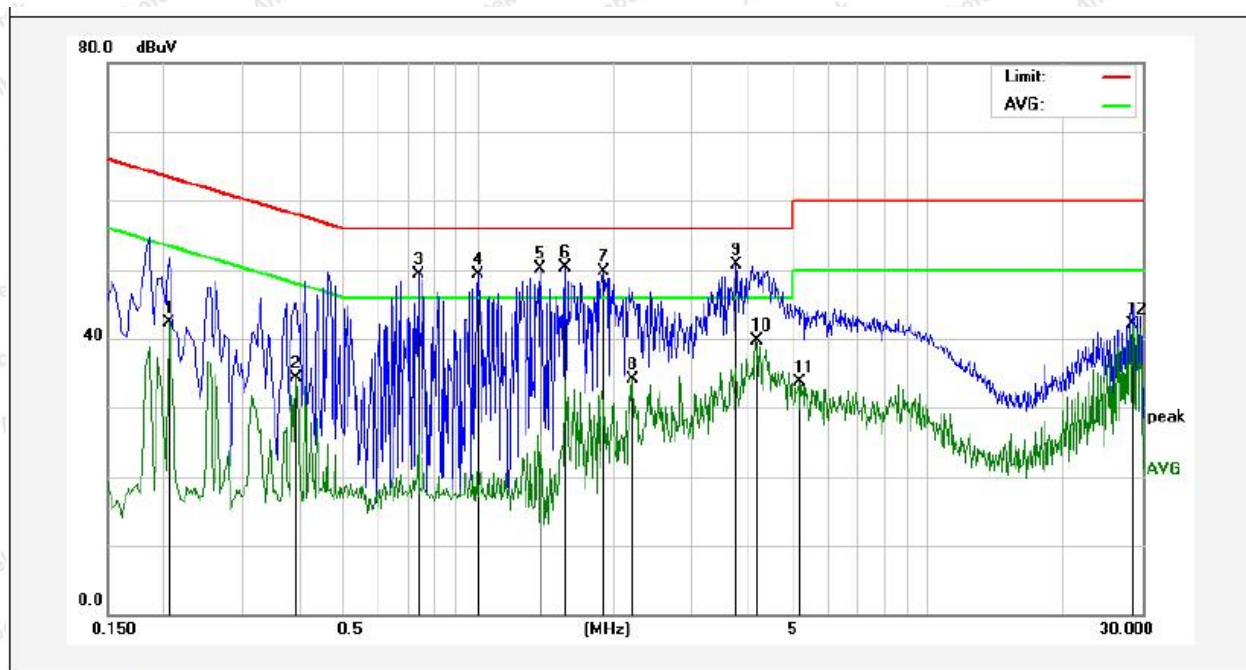
Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: AC 240V, 60Hz for adapter
 Comment: Live Line
 Tem.: 24.1°C Hum.: 48%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.4060	39.70	0.11	39.81	47.73	-7.92	AVG	
2	0.4740	38.32	0.14	38.46	46.44	-7.98	AVG	
3	0.9939	50.39	0.15	50.54	56.00	-5.46	QP	
4	1.2860	50.57	0.14	50.71	56.00	-5.29	QP	
5	1.5980	49.67	0.13	49.80	56.00	-6.20	QP	
6	1.6538	49.48	0.13	49.61	56.00	-6.39	QP	
7	1.8460	49.92	0.12	50.04	56.00	-5.96	QP	
8	2.1739	49.47	0.12	49.59	56.00	-6.41	QP	
9	4.1020	38.38	0.11	38.49	46.00	-7.51	AVG	
10	28.0540	41.21	0.29	41.50	50.00	-8.50	AVG	
11	28.9020	41.93	0.33	42.26	50.00	-7.74	AVG	
12	29.7540	41.22	0.36	41.58	50.00	-8.42	AVG	

Conducted Emission Test Data

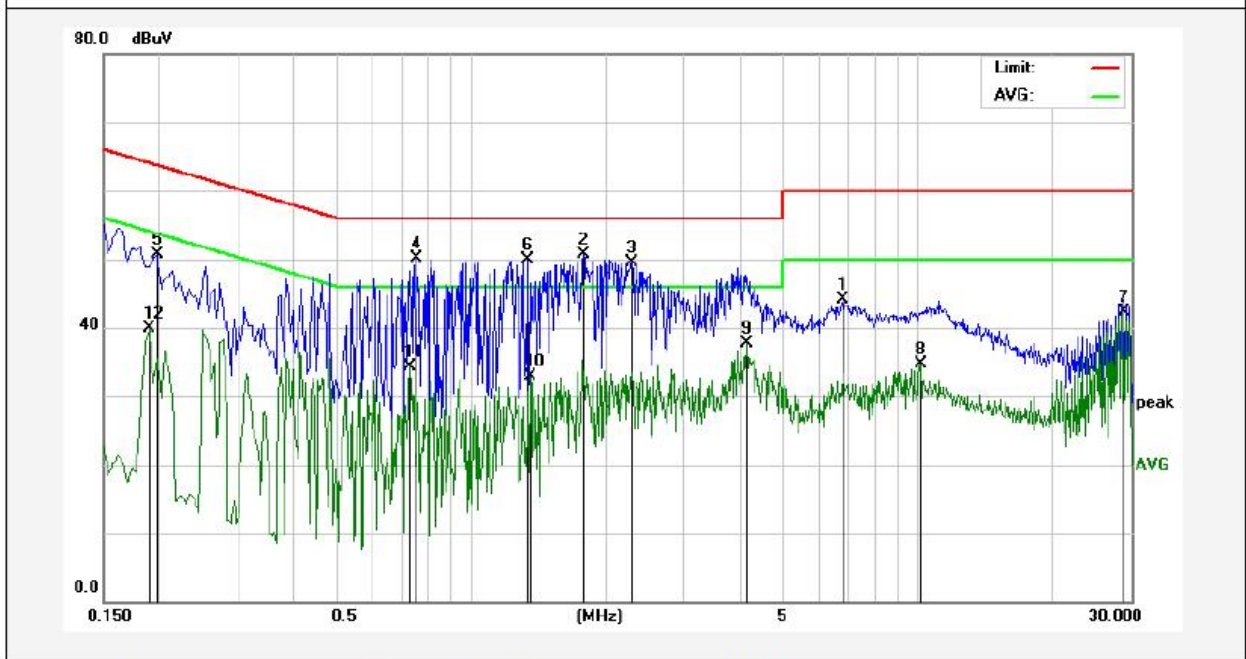
Test Site: 1# Shielded Room
Operating Condition: Mode 1
Test Specification: AC 240V, 60Hz for adapter
Comment: Neutral Line
Tem.: 24.1°C Hum.: 48%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.2059	42.17	0.12	42.29	53.37	-11.08	AVG	
2	0.3940	34.27	0.11	34.38	47.98	-13.60	AVG	
3	0.7378	49.18	0.15	49.33	56.00	-6.67	QP	
4	1.0020	49.19	0.15	49.34	56.00	-6.66	QP	
5	1.3740	50.06	0.14	50.20	56.00	-5.80	QP	
6	1.5620	50.24	0.13	50.37	56.00	-5.63	QP	
7	1.9019	49.58	0.12	49.70	56.00	-6.30	QP	
8	2.2019	34.06	0.12	34.18	46.00	-11.82	AVG	
9	3.7500	50.64	0.12	50.76	56.00	-5.24	QP	
10	4.1498	39.55	0.11	39.66	46.00	-6.34	AVG	
11	5.1859	33.64	0.11	33.75	50.00	-16.25	AVG	
12	28.4780	41.80	0.31	42.11	50.00	-7.89	AVG	

Conducted Emission Test Data

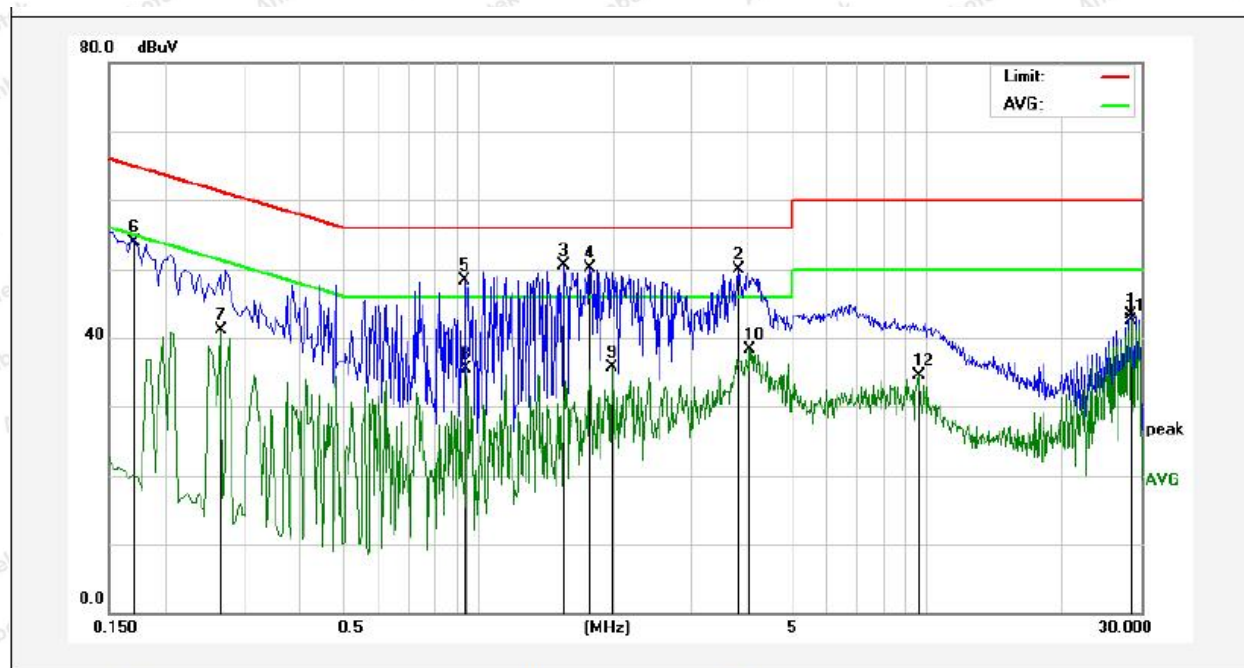
Test Site: 1# Shielded Room
 Operating Condition: Mode 1
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Live Line
 Tem.: 24.1°C Hum.: 48%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	6.7899	43.97	0.11	44.08	60.00	-15.92	QP	
2	1.7860	50.66	0.13	50.79	56.00	-5.21	QP	
3	2.2900	49.41	0.12	49.53	56.00	-6.47	QP	
4	0.7580	49.87	0.15	50.02	56.00	-5.98	QP	
5	0.1980	50.64	0.12	50.76	63.69	-12.93	QP	
6	1.3380	49.67	0.14	49.81	56.00	-6.19	QP	
7	28.9020	42.04	0.33	42.37	50.00	-7.63	AVG	
8	10.1699	34.59	0.12	34.71	50.00	-15.29	AVG	
9	4.1498	37.58	0.11	37.69	46.00	-8.31	AVG	
10	1.3580	32.82	0.14	32.96	46.00	-13.04	AVG	
11	0.7299	34.24	0.15	34.39	46.00	-11.61	AVG	
12	0.1900	39.71	0.12	39.83	54.03	-14.20	AVG	

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: Mode 1
Test Specification: AC 120V, 60Hz for adapter
Comment: Neutral Line
Tem.: 24.1°C Hum.: 48%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	28.4780	43.02	0.31	43.33	60.00	-16.67	QP	
2	3.8020	49.77	0.12	49.89	56.00	-6.11	QP	
3	1.5580	50.34	0.13	50.47	56.00	-5.53	QP	
4	1.7780	50.01	0.13	50.14	56.00	-5.86	QP	
5	0.9378	48.18	0.15	48.33	56.00	-7.67	QP	
6	0.1711	53.85	0.12	53.97	64.90	-10.93	QP	
7	0.2660	41.02	0.13	41.15	51.24	-10.09	AVG	
8	0.9418	35.27	0.15	35.42	46.00	-10.58	AVG	
9	1.9899	35.55	0.12	35.67	46.00	-10.33	AVG	
10	4.0220	38.22	0.11	38.33	46.00	-7.67	AVG	
11	28.4780	42.17	0.31	42.48	50.00	-7.52	AVG	
12	9.5539	34.44	0.12	34.56	50.00	-15.44	AVG	

4. Radiation Spurious Emission

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz~1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz~30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	74.0	Peak	3

Remark:

(1)The lower limit shall apply at the transition frequency.

(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup

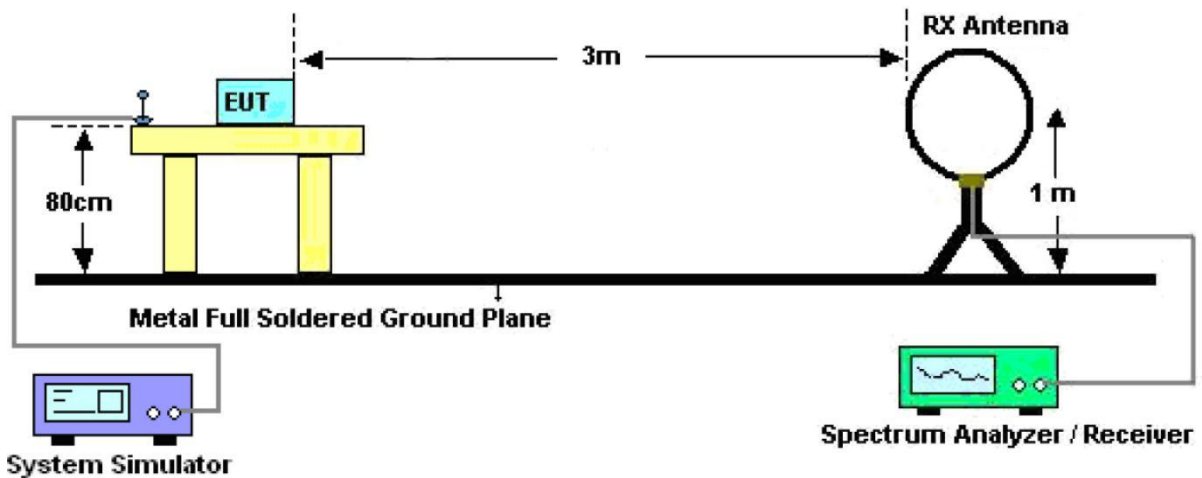


Figure 1. Below 30MHz

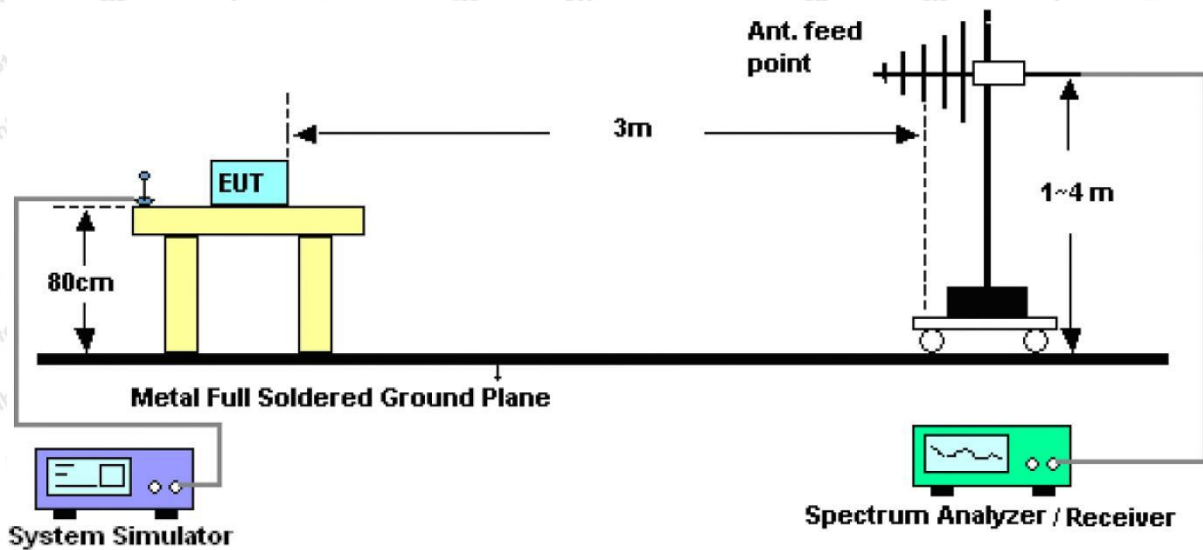


Figure 2. 30MHz to 1GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW = 30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW = 300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

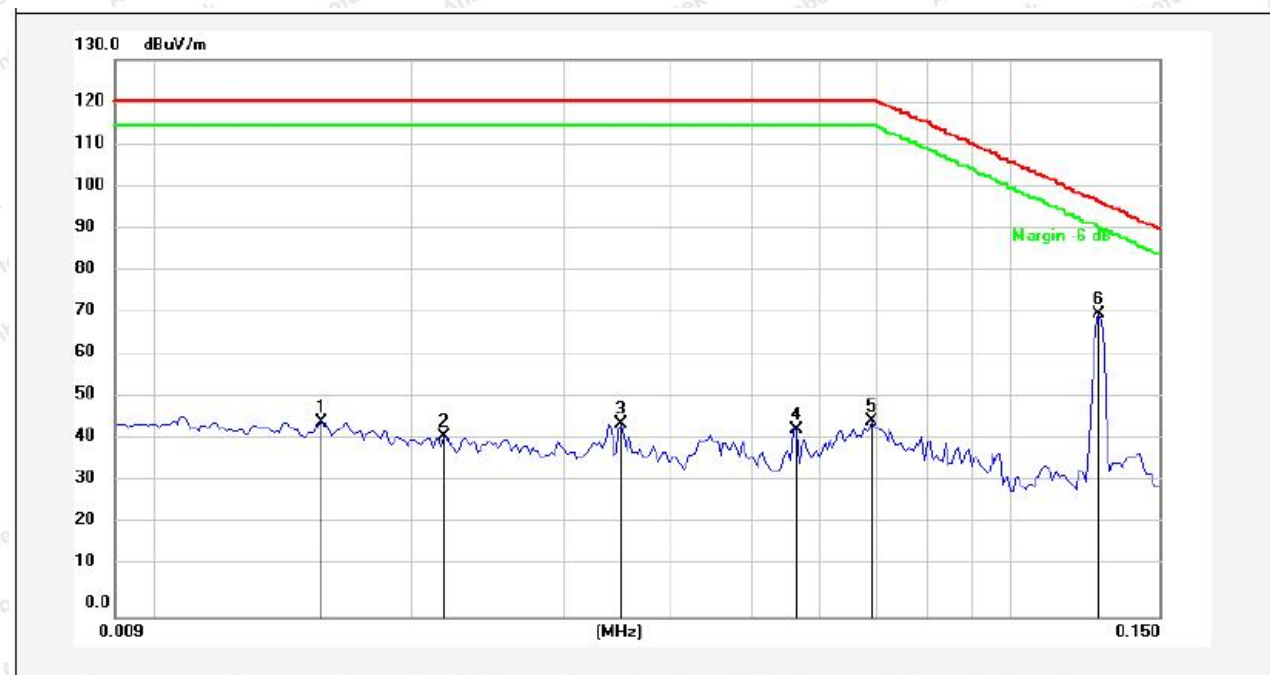
4.4. Test Data

PASS

Note: The data is in TX mode, and this is the worst mode.

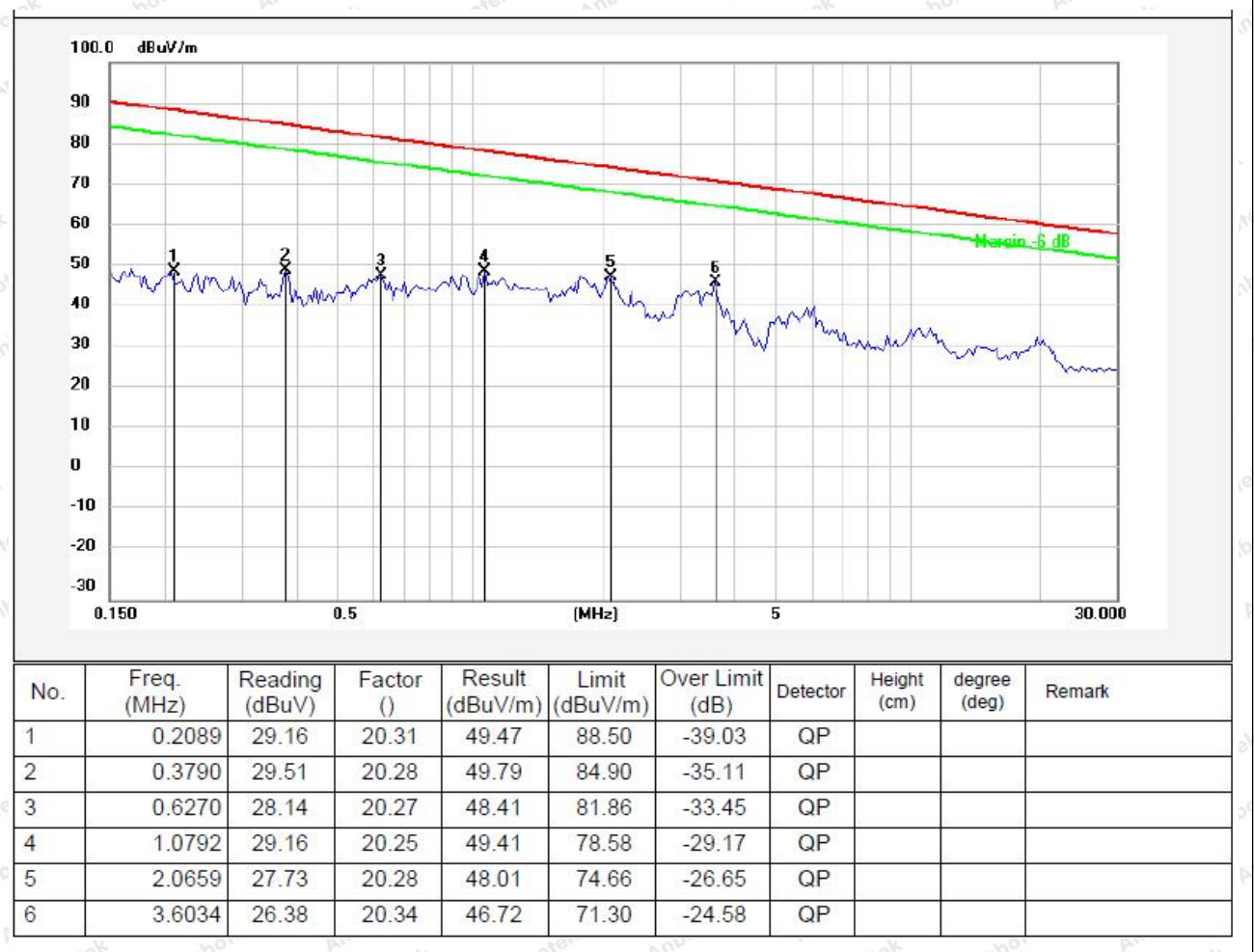
Test Results

(Between 9KHz – 30MHz)

Standard: FCC PART15 C _3m**Power Source:** AC 120V, 60Hz for adapter**Test item:** Radiation Test**Temp.(C)/Hum.(%RH):** 22.4°C/49%RH**Test Mode:** Mode 1**Distance:** 3m

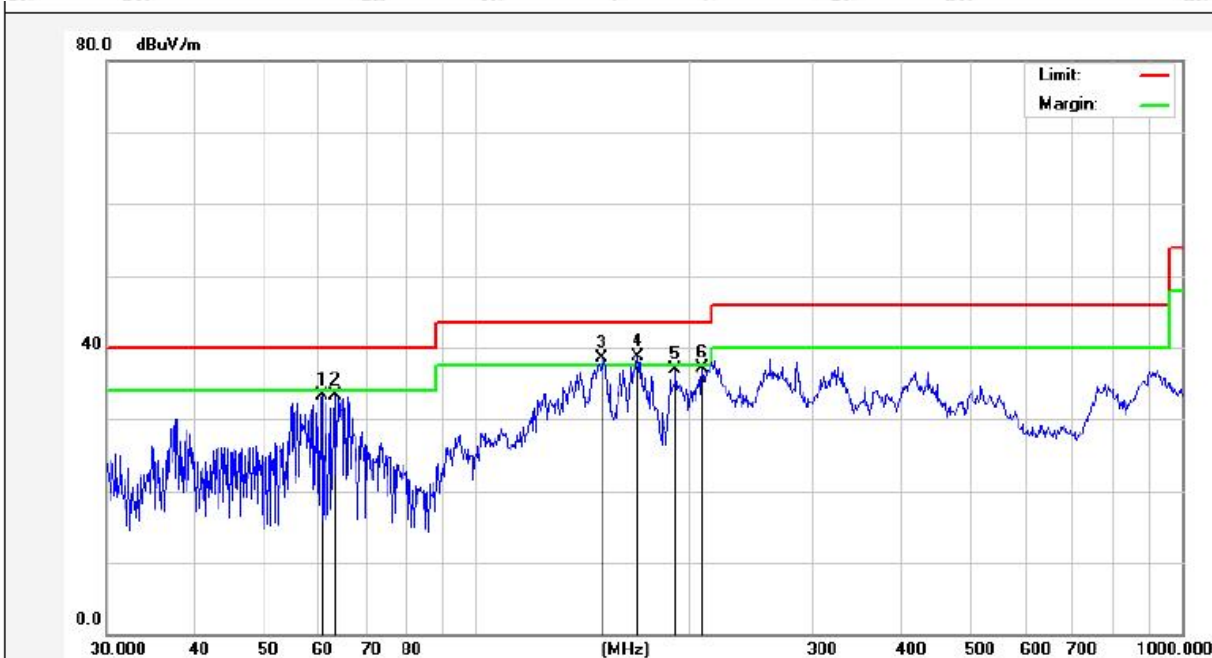
No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.0156	25.18	20.30	45.48	120.50	-75.02	QP			
2	0.0218	21.86	20.33	42.19	120.50	-78.31	QP			
3	0.0352	24.61	20.48	45.09	120.50	-75.41	QP			
4	0.0563	23.38	20.36	43.74	120.50	-76.76	QP			
5	0.0691	25.24	20.37	45.61	120.50	-74.89	QP			
6	0.1275	50.32	20.34	70.66	96.90	-26.24	QP			





Remark: According to FCC PART 15.209 (d), the emission limits for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, Radiated emission limits in these three bands are based on measurements employing an average detector.

(Between 30MHz –1000 MHz)

Standard: FCC PART15 C _3m**Polarization:****Horizontal****Test item:** Radiation Test**Power Source:****AC 120V, 60Hz for adapter****Test Mode:** Mode 1**Temp.(C)/Hum.(%RH):****24.3℃/46%RH****Distance:** 3m

No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	60.7043	50.98	-17.75	33.23	40.00	-6.77	QP			
2	63.3132	52.00	-18.71	33.29	40.00	-6.71	QP			
3	151.0664	61.44	-22.98	38.46	43.50	-5.04	QP			
4	169.5988	62.26	-23.63	38.63	43.50	-4.87	QP			
5	191.7450	59.65	-22.68	36.97	43.50	-6.53	QP			
6	209.3129	59.31	-22.18	37.13	43.50	-6.37	QP			



Standard: FCC PART15 C _3m**Polarization:****Vertical****Test item:** Radiation Test**Power Source:****AC 120V, 60Hz for adapter****Test Mode:** Mode 1**Temp.(C)/Hum.(%RH):****24.3℃/46%RH****Distance:** 3m

No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	40.2757	49.57	-14.59	34.98	40.00	-5.02	QP			
2	59.8588	52.56	-17.49	35.07	40.00	-4.93	QP			
3	85.2980	53.60	-18.48	35.12	40.00	-4.88	QP			
4	175.6516	59.72	-20.83	38.89	43.50	-4.61	QP			
5	441.7425	54.77	-13.81	40.96	46.00	-5.04	QP			
6	912.8618	47.97	-6.08	41.89	46.00	-4.11	QP			

5. Antenna Requirement

5.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

5.2. Antenna Connected Construction

The antenna is a Inductive loop coil Antenna which permanently attached, and the best case gain of the antenna is 0 dBi. It complies with the standard requirement.

APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement



Photo of Radiation Emission Test





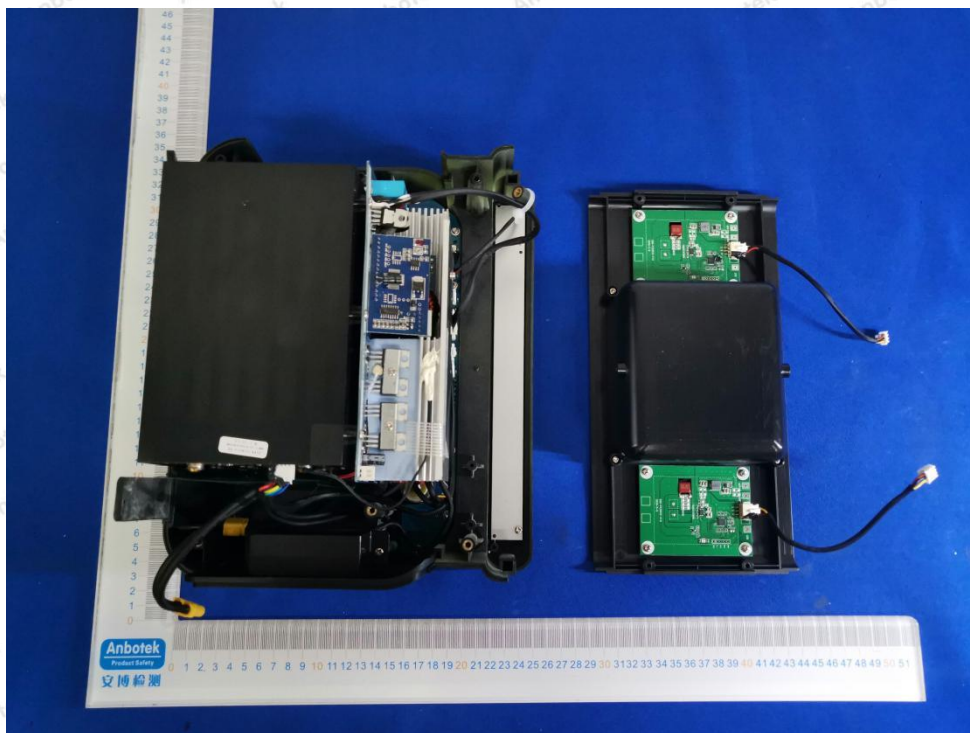
APPENDIX II -- EXTERNAL PHOTOGRAPH

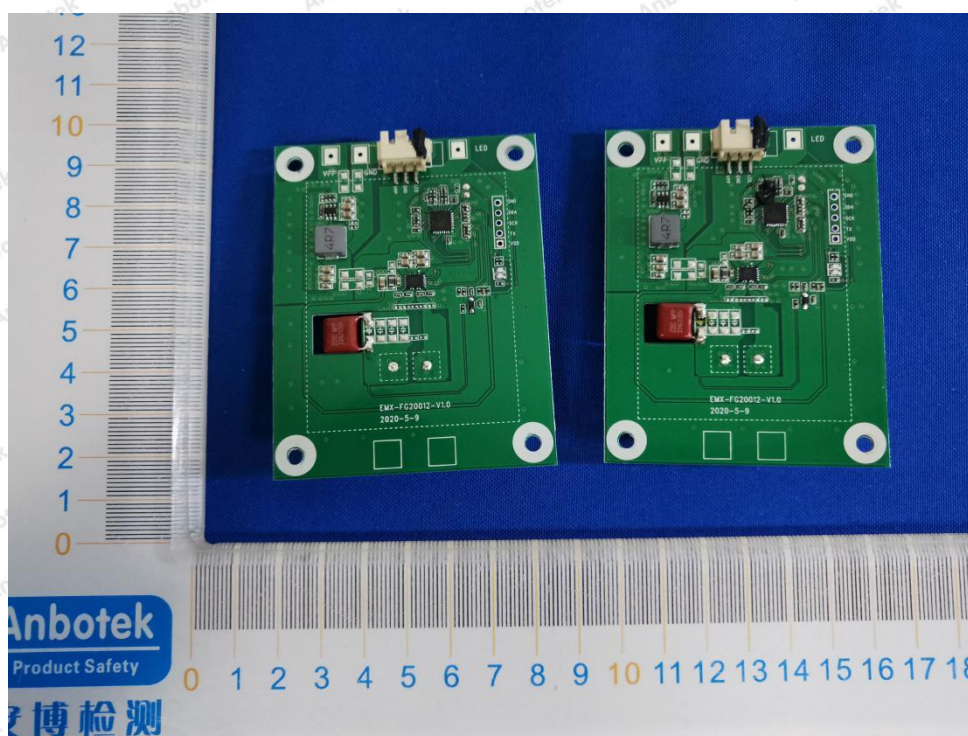
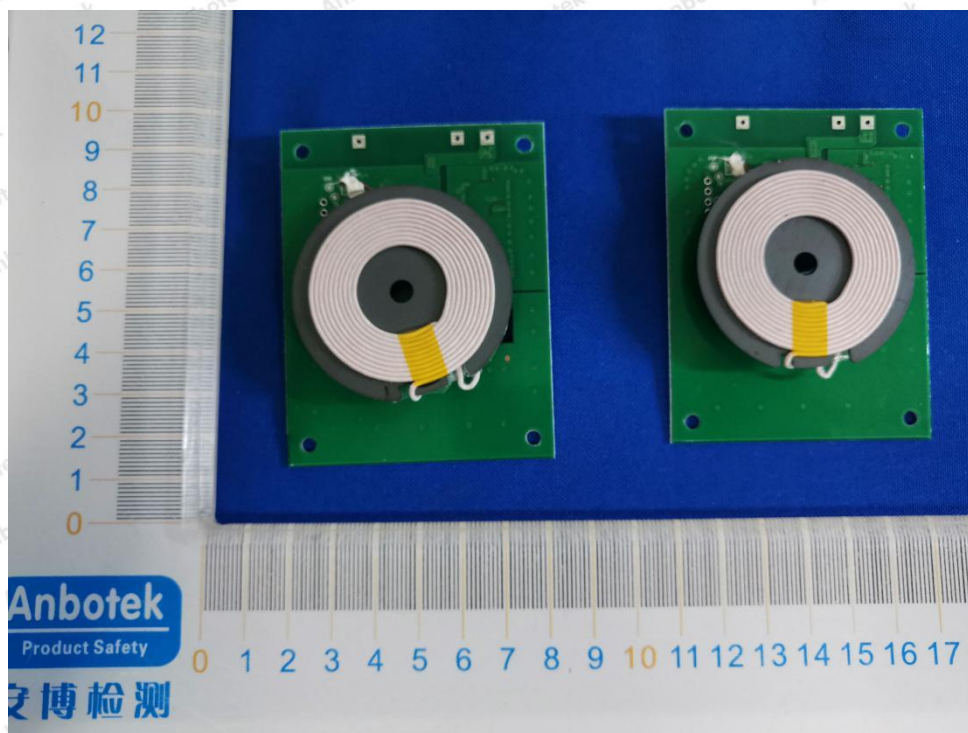


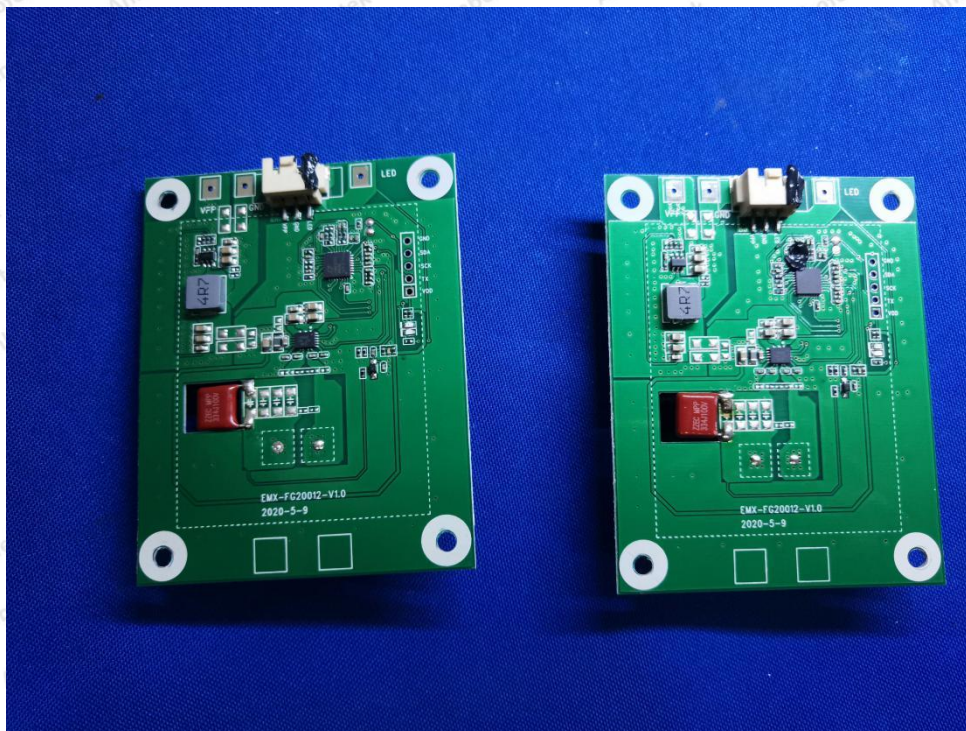




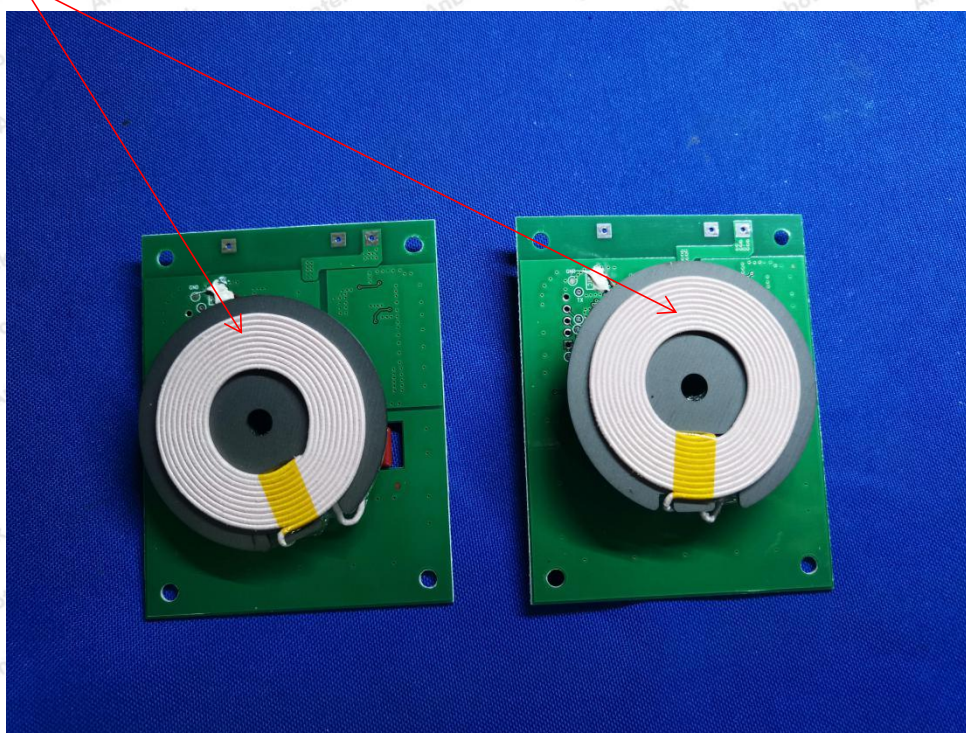


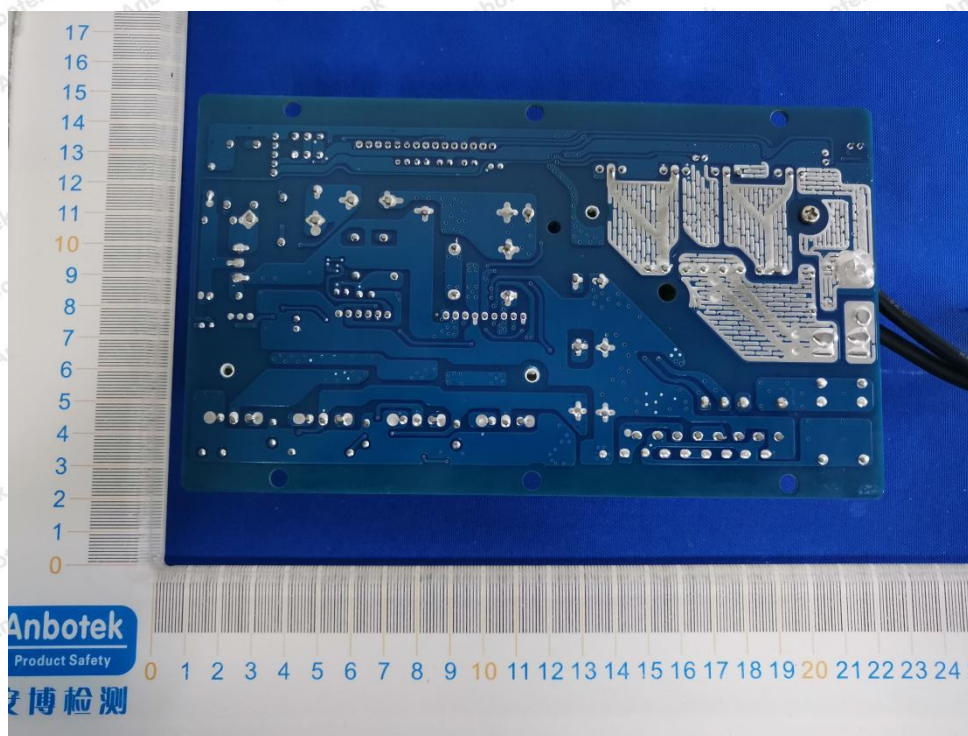
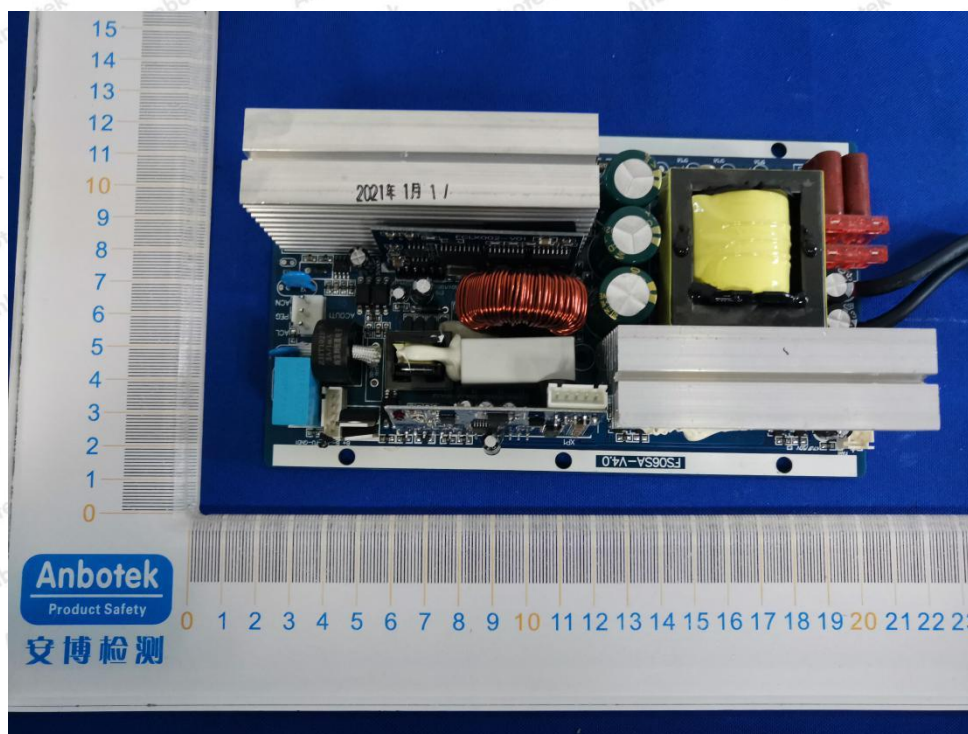
APPENDIX III -- INTERNAL PHOTOGRAPH

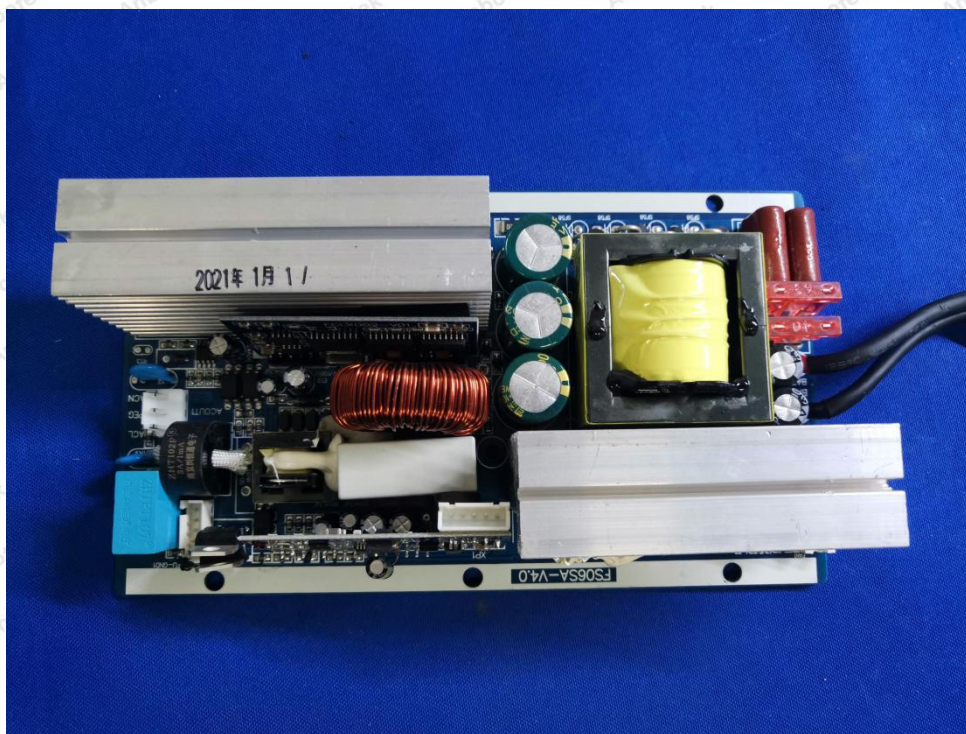
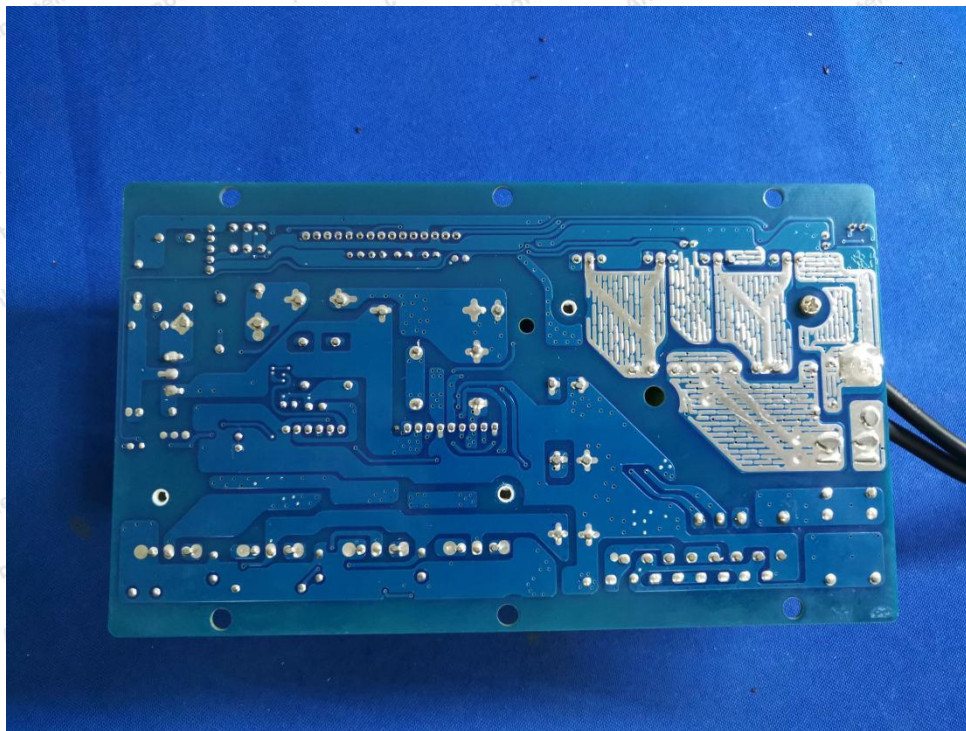


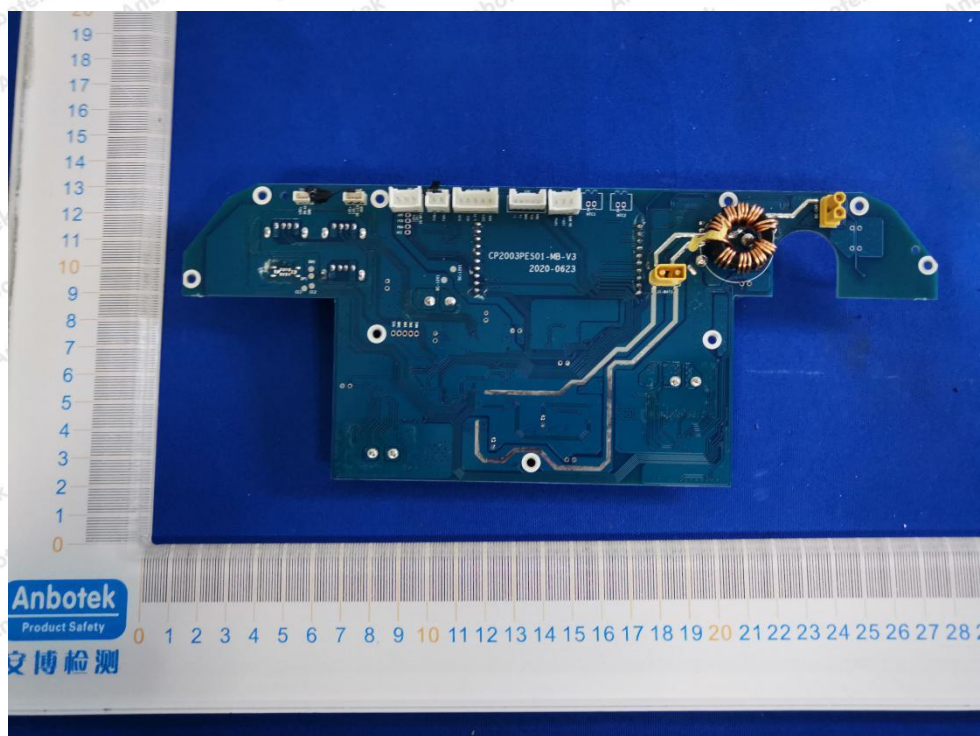
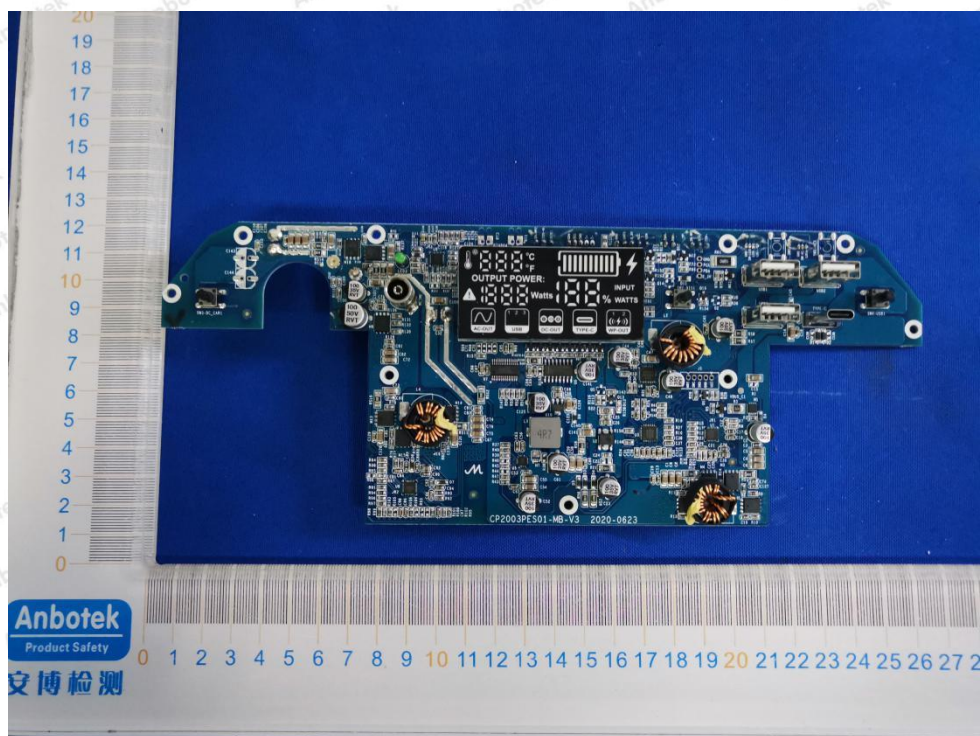


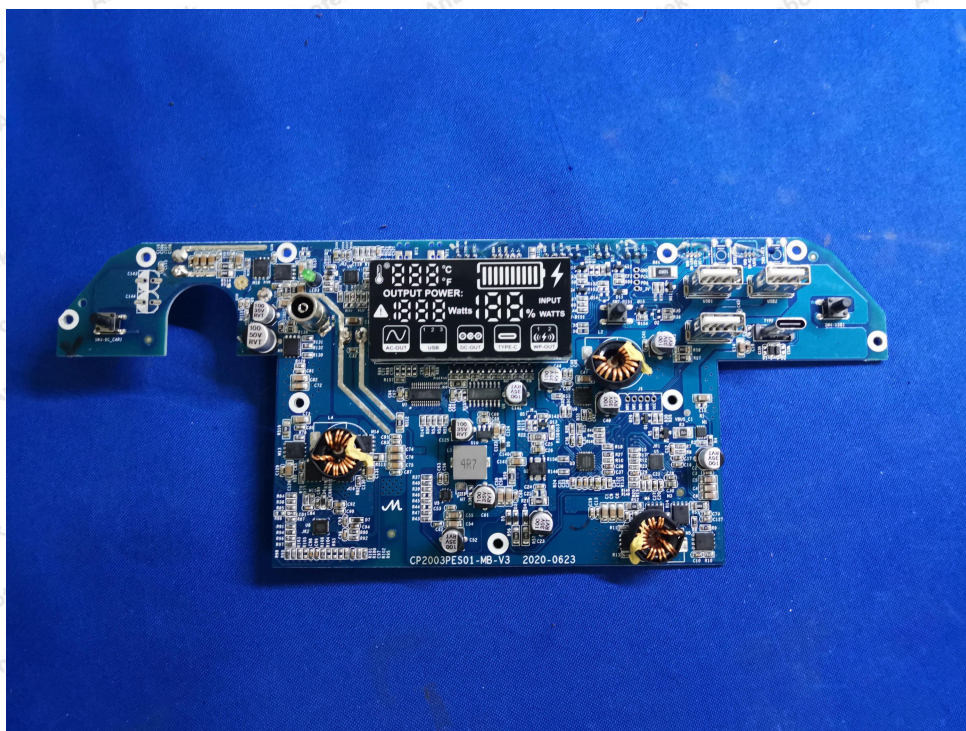
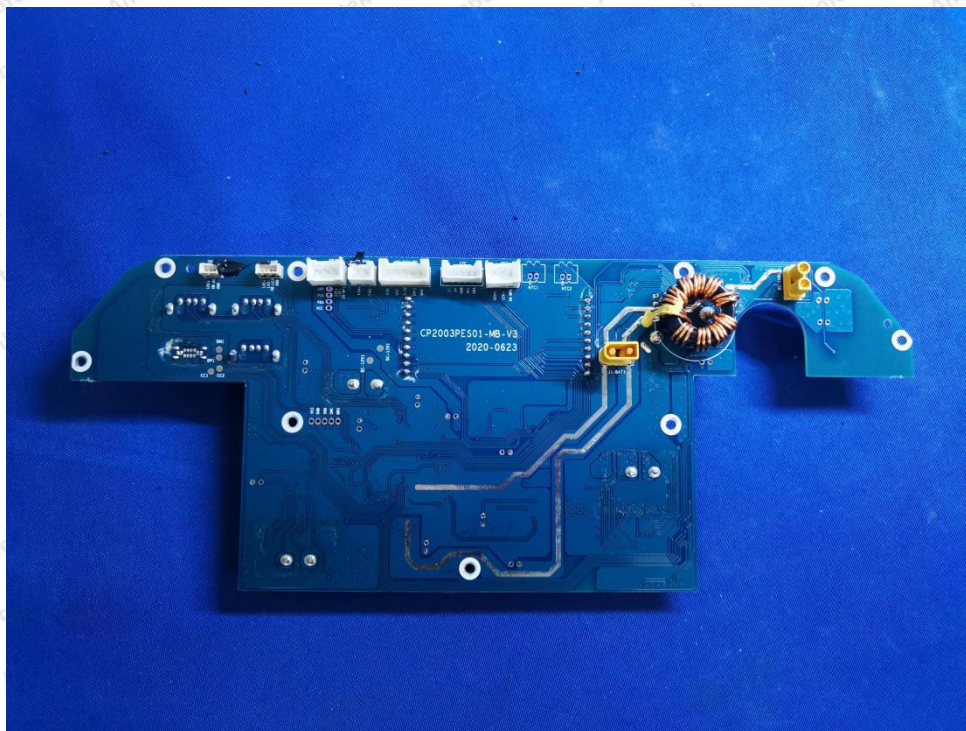
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----- End of Report -----

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