FCC TEST REPORT

Client Name	:	E-trends Electronic Co.,Ltd
Address	:	No.5 Floor, No.9 Building,Huixin Industrial Park, Yangwu village, Dalingshan Town, Dongguan, Guangdong, 523839, China
Product Name	:	3 in 1 wireless charger
Date	:	Jul. 13, 2022

Shenzhen Anbotek Compliance Laboratory Limited

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TEST REPORT

Applicant	:	E-trends Electronic Co.,Ltd
Manufacturer	:	E-trends Electronic Co.,Ltd
Product Name	:	3 in 1 wireless charger
Model No.	:	Nowire Charger
Trade Mark	:	N.A.
Rating(s)	:	Input: 5V⎓ 3A, 9V⎓ 3A Phone output: 5W, 7.5W, 10W, 15W(MAX) Airpods output: 5W(MAX) Watch output: 3W(MAX)
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 Anbotek 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 Anbotek 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 Anbotek Compliance Laboratory Limited.

Date of Receipt	May 23, 2022
Date of Test	May 23~ Jul. 01, 2022
Prepared By	Nian xiu Chen (Nianxiu Chen)
Approved & Authorized Signer	Kingkong Jin (Kingkong Jin)

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com
Hotline 400-003-0500
www.anbotek.com

1. General Information

1.1. Client Information

Applicant	:	E-trends Electronic Co.,Ltd
Address	:	No.5 Floor, No.9 Building,Huixin Industrial Park, Yangwu village, Dalingshan Town, Dongguan, Guangdong, 523839, China
Manufacturer	:	E-trends Electronic Co.,Ltd
Address	:	No.5 Floor, No.9 Building,Huixin Industrial Park, Yangwu village, Dalingshan Town, Dongguan, Guangdong, 523839, China
Factory	:	E-trends Electronic Co.,Ltd
Address	:	No.5 Floor, No.9 Building,Huixin Industrial Park, Yangwu village, Dalingshan Town, Dongguan, Guangdong, 523839, China

1.2. Description of Device (EUT)

Product Name	:	3 in 1 wireless charger	
Model No.	:	Nowire Charger	
Trade Mark	:	N.A.	
Test Power Supply	:	AC 120V, 60Hz for adapter/ AC 240V, 60Hz for adapter	
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)	
Product Description	:	Operation Frequency:	Phone/ Airpods: 127.7KHz Watch: 325KHz
		Modulation Type:	ASK
		Antenna Type:	Inductive loop coil Antenna
		Antenna Gain(Peak):	0 dBi (Provided by customer)
		Adapter:	N/A
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

Adapter	:	Model: MDY-11-EX Input: 100-240V~50/60Hz, 07A Output: 5V⎓3A/ 9V⎓3A/ 12V⎓2.25A/ 20V⎓1.35A/ 11V⎓3A Max
Mobile Phone	:	iPhone 12
Wireless charging load	:	Manufacturer: Shenzhen Ouju Technology Co., Ltd. M/N: CD2577 Power: 5W/7.5W/10W/15W Last Cal.: Oct. 26, 2021 Cal. Interval: 1 Year
Apple Watch	:	M/N: WR-50M

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	Wireless Charging Mode (Phone+Wireless charging load+Watch)
Mode 2	Wireless Charging Mode (Phone+Wireless charging load)
Mode 3	Wireless Charging Mode (Wireless charging load+Watch)
Mode 4	Wireless Charging Mode(Phone+Watch)
Mode 5	Wireless Charging Mode(Phone)
Mode 6	Wireless Charging Mode(Wireless charging load)
Mode 7	Wireless Charging Mode(Watch)

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For Conducted Emission	
Final Test Mode	Description
Mode 1	Wireless Charging Mode (Phone+Wireless charging load+Watch)
Mode 2	Wireless Charging Mode (Phone+Wireless charging load)
Mode 3	Wireless Charging Mode (Wireless charging load+Watch)
Mode 4	Wireless Charging Mode(Phone+Watch)
Mode 5	Wireless Charging Mode(Phone)
Mode 6	Wireless Charging Mode(Wireless charging load)
Mode 7	Wireless Charging Mode(Watch)

For Radiated Emission	
Final Test Mode	Description
Mode 1	Wireless Charging Mode (Phone+Wireless charging load+Watch)
Mode 2	Wireless Charging Mode (Phone+Wireless charging load)
Mode 3	Wireless Charging Mode (Wireless charging load+Watch)
Mode 4	Wireless Charging Mode(Phone+Watch)
Mode 5	Wireless Charging Mode(Phone)
Mode 6	Wireless Charging Mode(Wireless charging load)
Mode 7	Wireless Charging Mode(Watch)

Note: (1)Test channel is 0.1277MHz, 325KHz.

(2) All the situation(full load, half load and empty load) has been tested,only the worst situation (full load 23W (Phone+Wireless charging load+Watch)) was recorded in the report.

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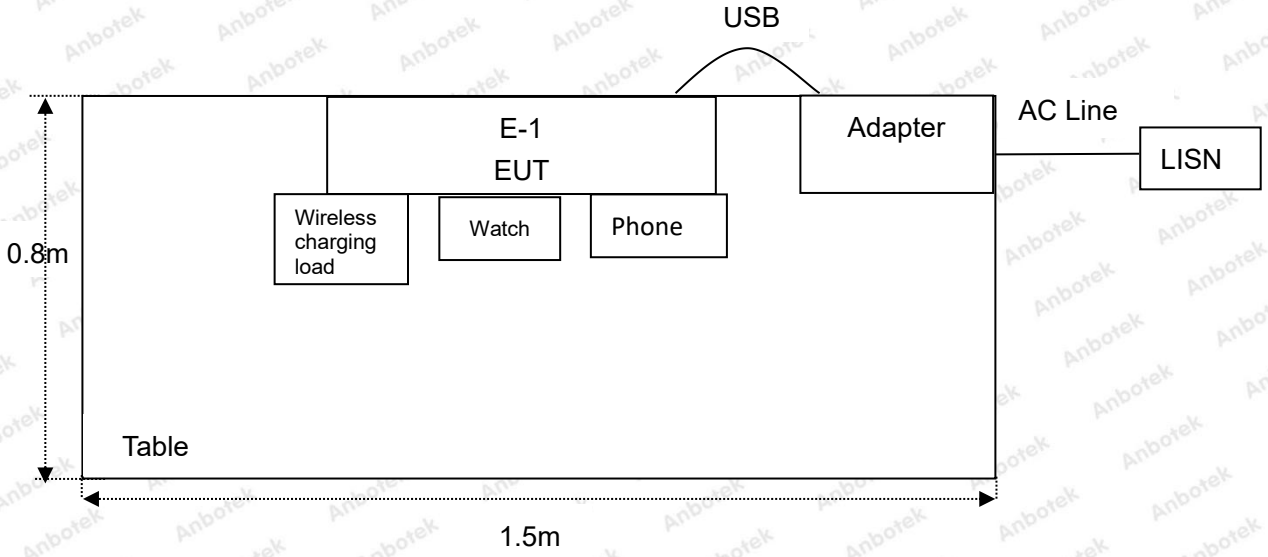
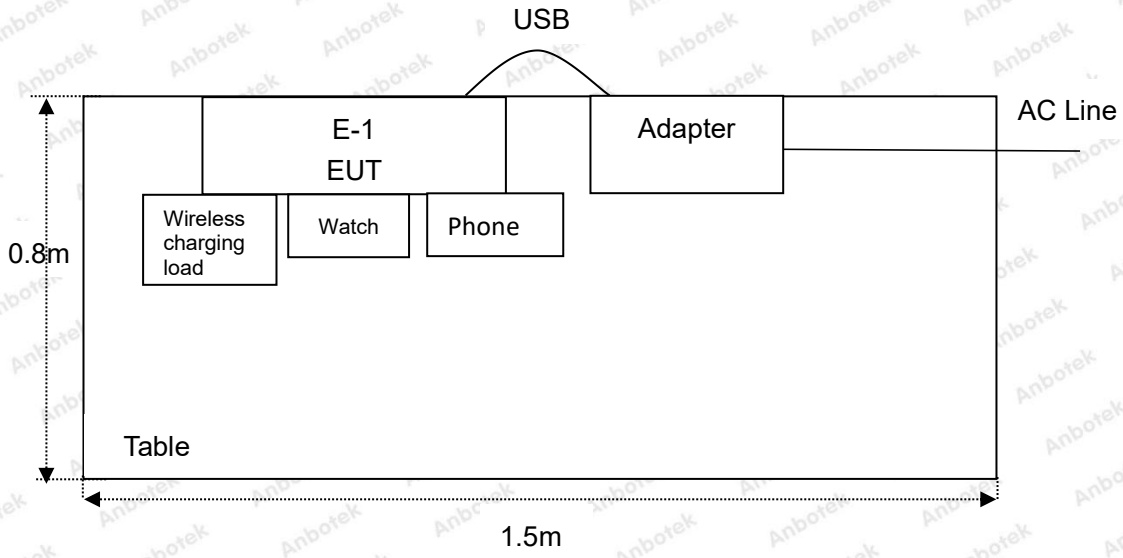
1.5. Description Of Test Setup

CE



RE



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	BK1G18G30D	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-KF	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-KHWS80B	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 Anbotek 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 Anbotek 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 Anbotek 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

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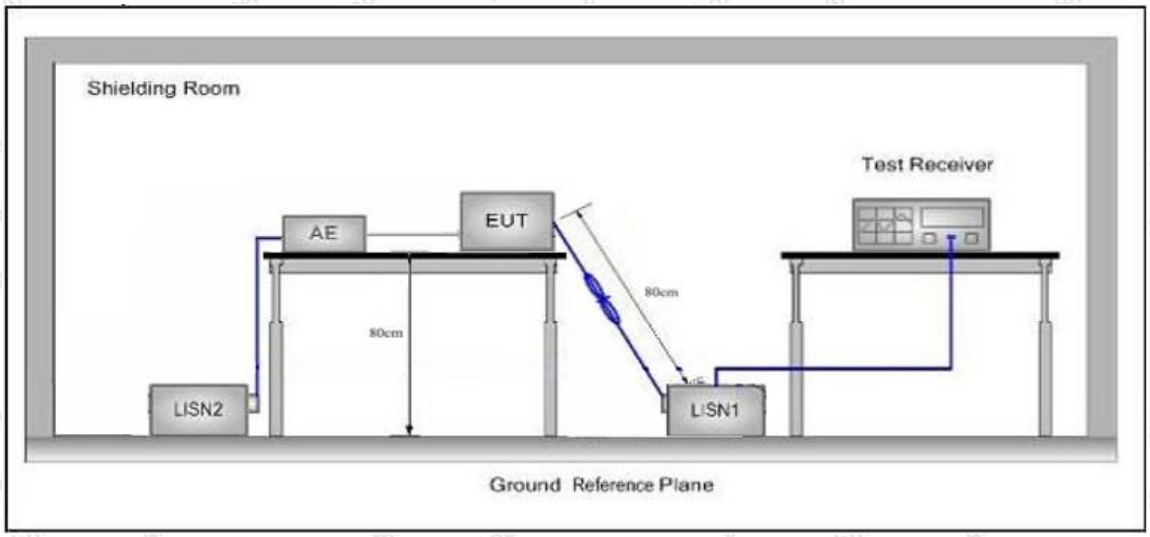
3. Conducted Emission Test

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.

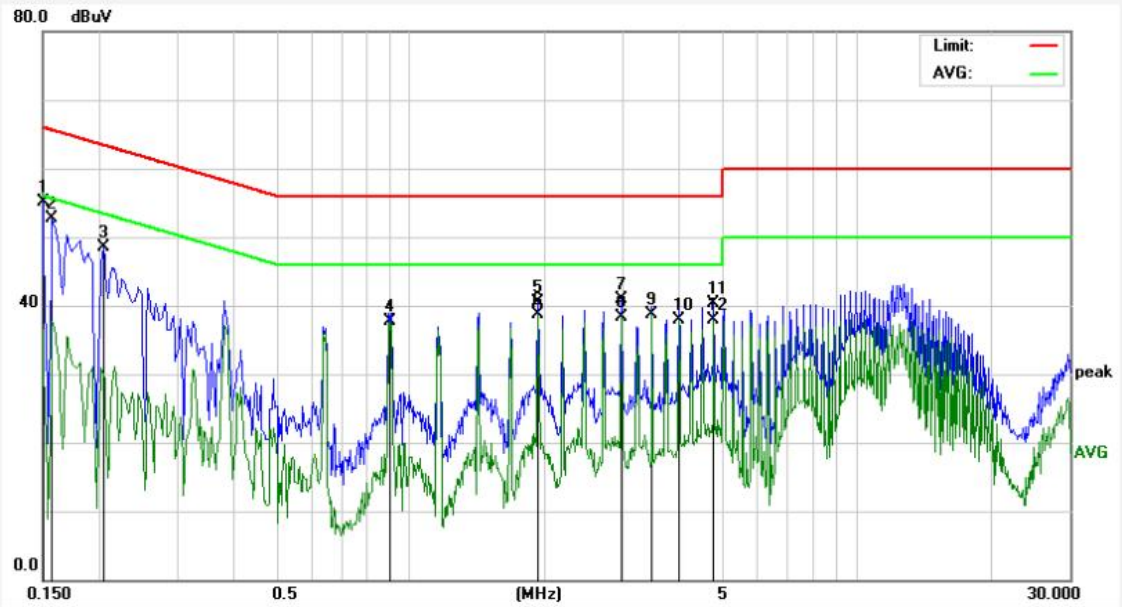
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Please to see the following pages

Conducted Emission Test Data

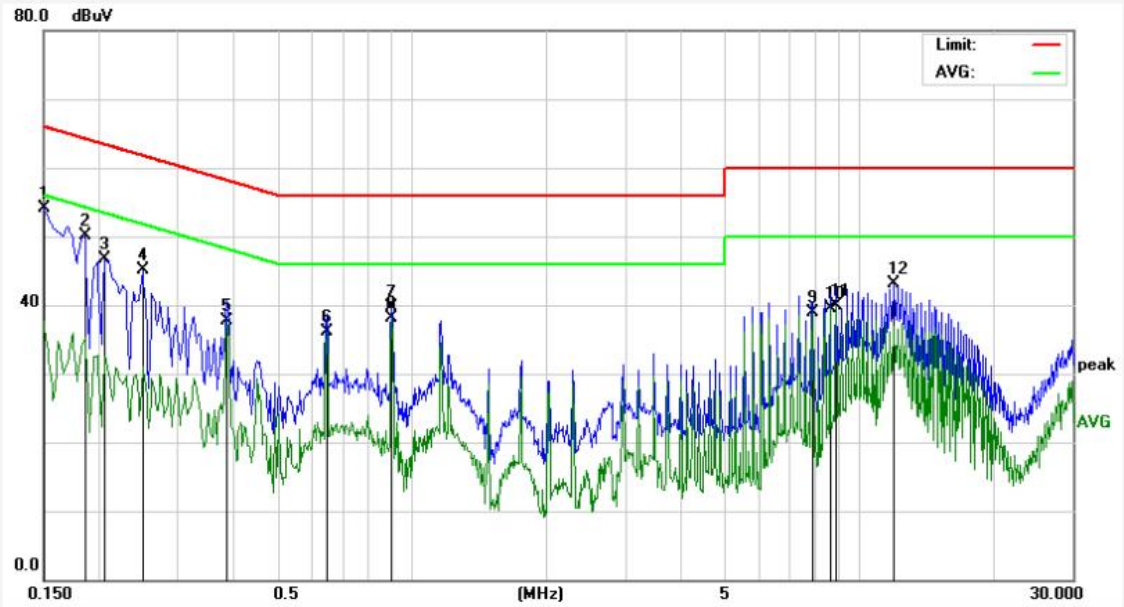
Test Site: 1# Shielded Room
Operating Condition: Mode 1
Test Specification: AC 240V, 60Hz for adapter
Comment: Live Line
Tem.: 23.9℃ Hum.: 47%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	45.33	9.69	55.02	65.99	-10.97	QP	
2	0.1580	42.96	9.70	52.66	65.56	-12.90	QP	
3	0.2060	38.83	9.71	48.54	63.36	-14.82	QP	
4	0.9020	27.91	9.74	37.65	46.00	-8.35	AVG	
5	1.9340	30.85	9.72	40.57	56.00	-15.43	QP	
6	1.9340	29.05	9.72	38.77	46.00	-7.23	AVG	
7	2.9700	31.09	9.73	40.82	56.00	-15.18	QP	
8	2.9700	28.65	9.73	38.38	46.00	-7.62	AVG	
9	3.4820	28.97	9.73	38.70	46.00	-7.30	AVG	
10	4.0020	28.16	9.73	37.89	46.00	-8.11	AVG	
11	4.7780	30.60	9.74	40.34	56.00	-15.66	QP	
12	4.7780	28.26	9.74	38.00	46.00	-8.00	AVG	

Conducted Emission Test Data

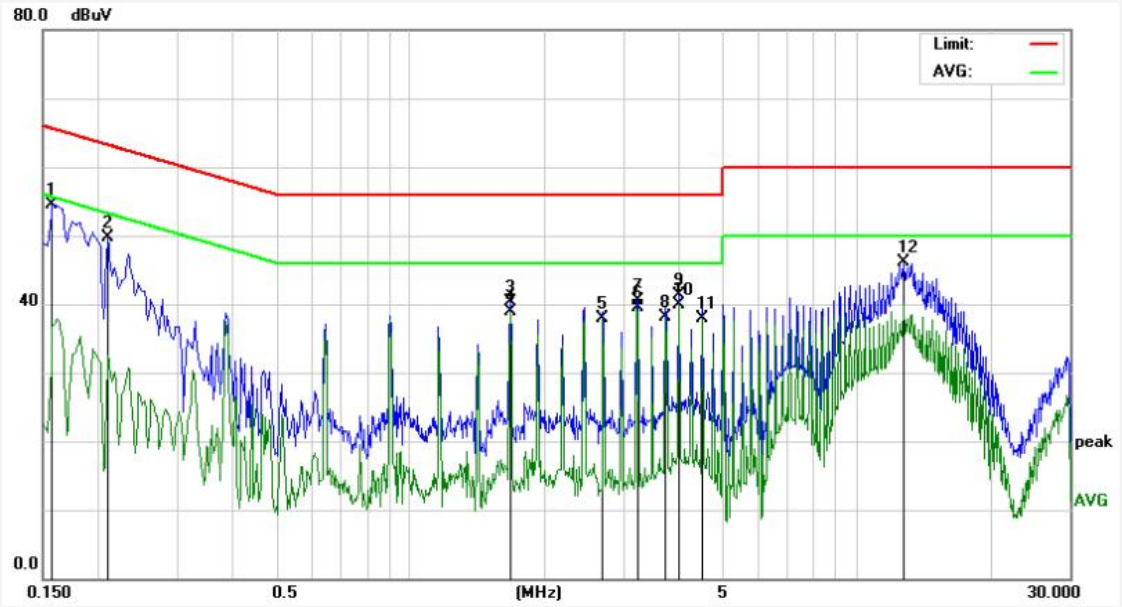
Test Site: 1# Shielded Room
Operating Condition: Mode 1
Test Specification: AC 240V, 60Hz for adapter
Comment: Neutral Line
Tem.: 23.9℃ Hum.: 47%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	44.50	9.69	54.19	65.99	-11.80	QP	
2	0.1860	40.42	9.71	50.13	64.21	-14.08	QP	
3	0.2060	36.94	9.71	46.65	63.36	-16.71	QP	
4	0.2500	35.37	9.71	45.08	61.75	-16.67	QP	
5	0.3860	28.04	9.71	37.75	48.15	-10.40	AVG	
6	0.6460	26.29	9.75	36.04	46.00	-9.96	AVG	
7	0.9020	29.98	9.74	39.72	56.00	-16.28	QP	
8	0.9020	28.45	9.74	38.19	46.00	-7.81	AVG	
9	7.8540	29.00	9.81	38.81	50.00	-11.19	AVG	
10	8.6260	29.62	9.82	39.44	50.00	-10.56	AVG	
11	8.8820	30.12	9.82	39.94	50.00	-10.06	AVG	
12	11.9780	33.28	9.89	43.17	60.00	-16.83	QP	

Conducted Emission Test Data

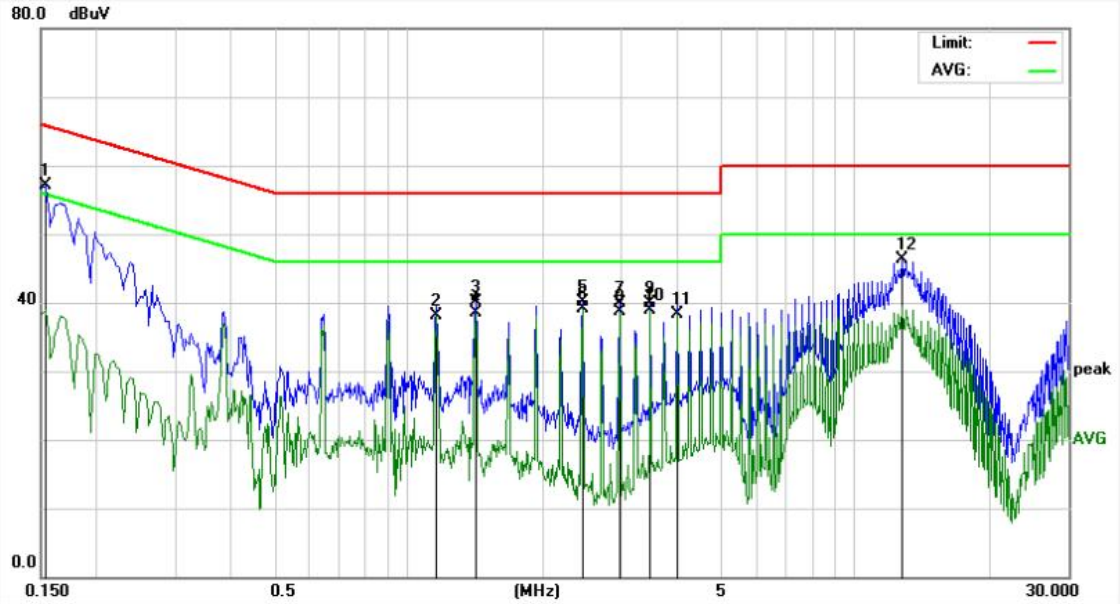
Test Site: 1# Shielded Room
Operating Condition: Mode 1
Test Specification: AC 120V, 60Hz for adapter
Comment: Live Line
Tem.: 23.9℃ Hum.: 47%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1580	44.83	9.70	54.53	65.56	-11.03	QP	
2	0.2100	40.03	9.71	49.74	63.20	-13.46	QP	
3	1.6780	30.66	9.73	40.39	56.00	-15.61	QP	
4	1.6780	29.26	9.73	38.99	46.00	-7.01	AVG	
5	2.7060	28.20	9.73	37.93	46.00	-8.07	AVG	
6	3.2220	29.74	9.73	39.47	46.00	-6.53	AVG	
7	3.2260	30.81	9.73	40.54	56.00	-15.46	QP	
8	3.7380	28.36	9.74	38.10	46.00	-7.90	AVG	
9	3.9940	31.66	9.73	41.39	56.00	-14.61	QP	
10	3.9940	30.11	9.73	39.84	46.00	-6.16	AVG	
11	4.5100	28.16	9.74	37.90	46.00	-8.10	AVG	
12	12.7620	36.27	9.92	46.19	60.00	-13.81	QP	

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: Mode 1
Test Specification: AC 120V, 60Hz for adapter
Comment: Neutral Line
Tem.: 23.9℃ Hum.: 47%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1539	47.31	9.70	57.01	65.78	-8.77	QP	
2	1.1500	28.41	9.74	38.15	46.00	-7.85	AVG	
3	1.4180	30.42	9.73	40.15	56.00	-15.85	QP	
4	1.4180	28.68	9.73	38.41	46.00	-7.59	AVG	
5	2.4500	30.31	9.72	40.03	56.00	-15.97	QP	
6	2.4500	29.29	9.72	39.01	46.00	-6.99	AVG	
7	2.9660	30.26	9.73	39.99	56.00	-16.01	QP	
8	2.9660	29.06	9.73	38.79	46.00	-7.21	AVG	
9	3.4780	30.22	9.73	39.95	56.00	-16.05	QP	
10	3.4780	29.15	9.73	38.88	46.00	-7.12	AVG	
11	3.9940	28.55	9.73	38.28	46.00	-7.72	AVG	
12	12.7500	36.30	9.92	46.22	60.00	-13.78	QP	

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

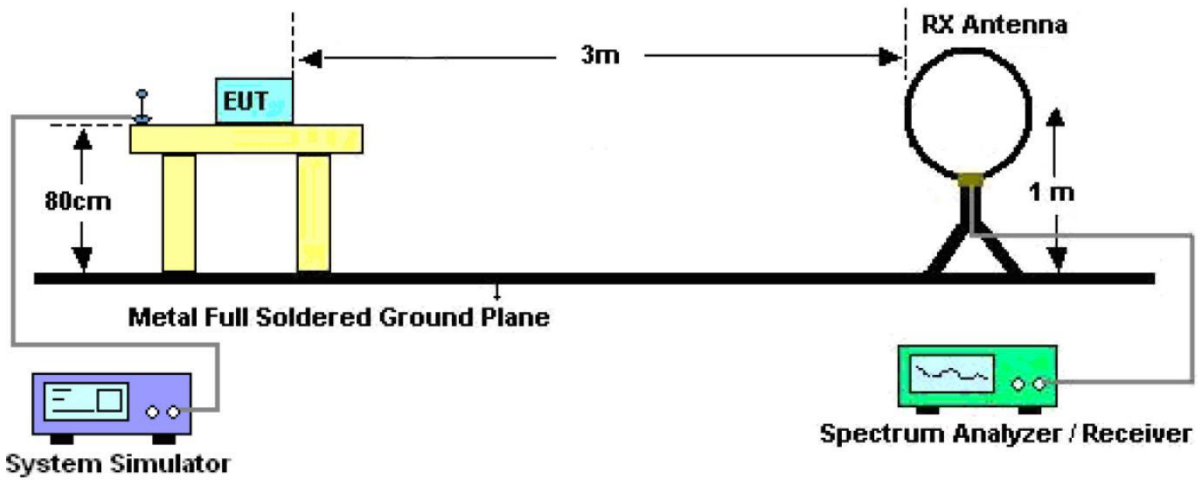


Figure 1. Below 30MHz

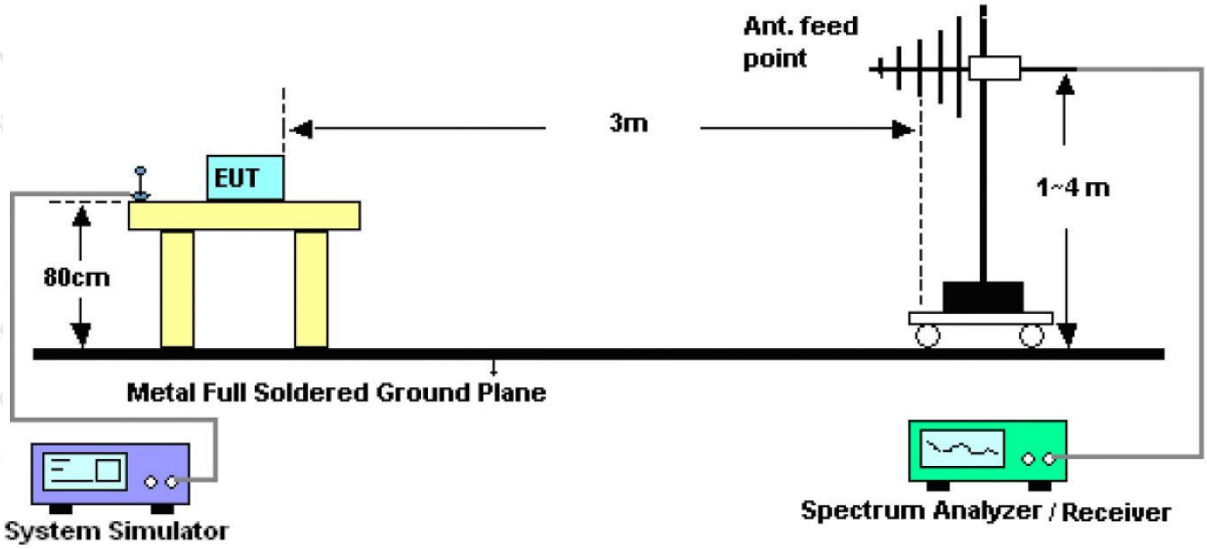


Figure 2. 30MHz to 1GHz

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

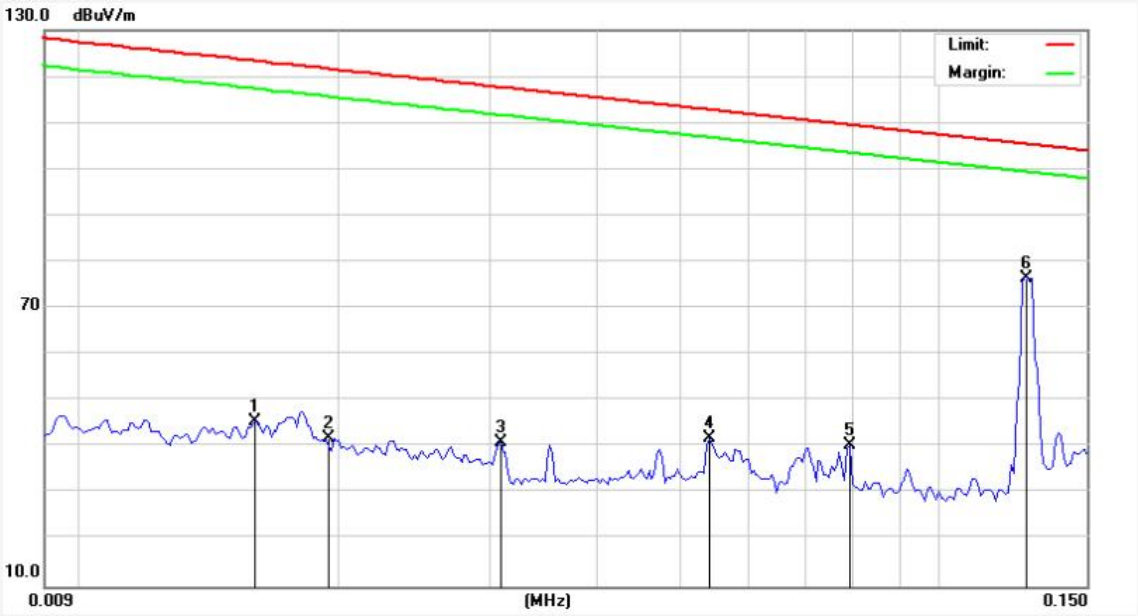
PASS

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

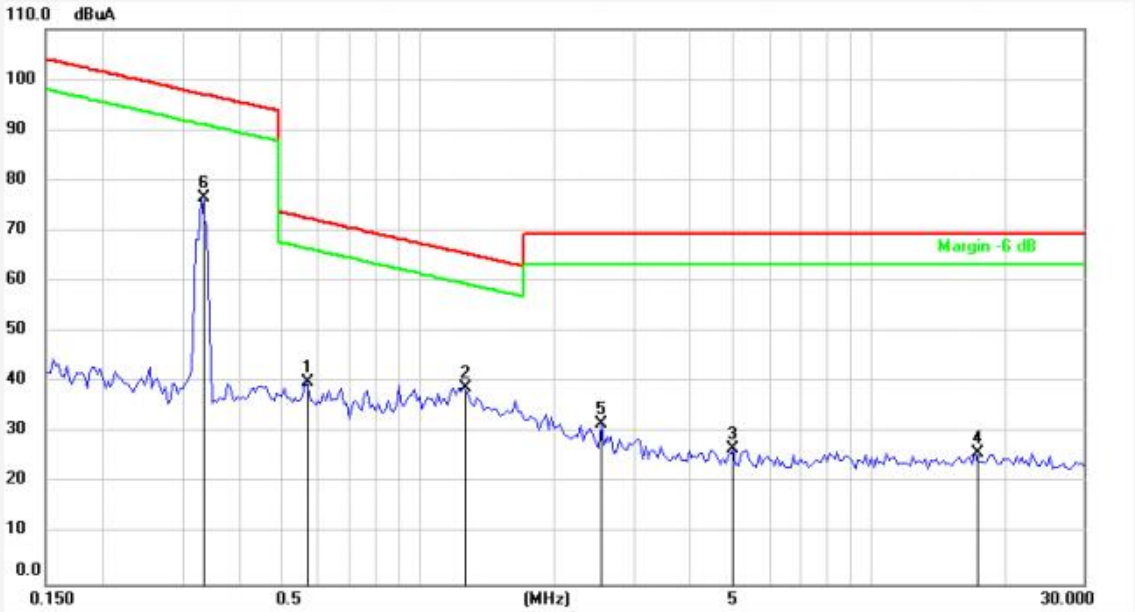
Test Results

(Between 9KHz – 30MHz)

Standard:	**FCC PART15 C_3m**	**Power Source:**	**AC 120V, 60Hz for adapter**
Test item:	**Radiation Test**	**Temp.(C)/Hum.(%RH):**	**24.1℃/48%RH**
Test Mode:	**Mode 1**	**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	0.0159	25.39	20.30	45.69	123.39	-77.70	QP			
2	0.0194	21.58	20.30	41.88	121.68	-79.80	QP			
3	0.0308	20.47	20.55	41.02	117.68	-76.66	QP			
4	0.0541	21.58	20.36	41.94	112.82	-70.88	QP			
5	0.0791	19.97	20.36	40.33	109.54	-69.21	QP			
6	0.1277	55.97	20.34	76.31	105.41	-29.10	QP			



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.5641	19.67	20.28	39.95	72.58	-32.63	QP			
2	1.2655	18.71	20.26	38.97	65.58	-26.61	QP			
3	5.0179	6.35	20.41	26.76	69.50	-42.74	QP			
4	17.1994	5.44	20.56	26.00	69.50	-43.50	QP			
5	2.5535	11.59	20.29	31.88	69.50	-37.62	QP			
6	0.3270	56.36	20.29	76.65	97.16	-20.51	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):**	**24.1℃/48%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	31.9546	48.08	-19.54	28.54	40.00	-11.46	QP			
2	77.8654	51.11	-22.78	28.33	40.00	-11.67	QP			
3	177.5092	57.70	-23.29	34.41	43.50	-9.09	QP			
4	231.7179	60.34	-21.80	38.54	46.00	-7.46	QP			
5	243.3772	58.82	-21.60	37.22	46.00	-8.78	QP			
6	219.0853	60.58	-22.01	38.57	46.00	-7.43	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):**	**24.1℃/48%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	31.2893	53.55	-17.75	35.80	40.00	-4.20	QP			
2	38.0783	48.31	-15.56	32.75	40.00	-7.25	QP			
3	79.8003	54.58	-19.33	35.25	40.00	-4.75	QP			
4	172.5988	50.25	-20.99	29.26	43.50	-14.24	QP			
5	183.8440	48.25	-20.42	27.83	43.50	-15.67	QP			
6	229.2931	54.47	-18.66	35.81	46.00	-10.19	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.

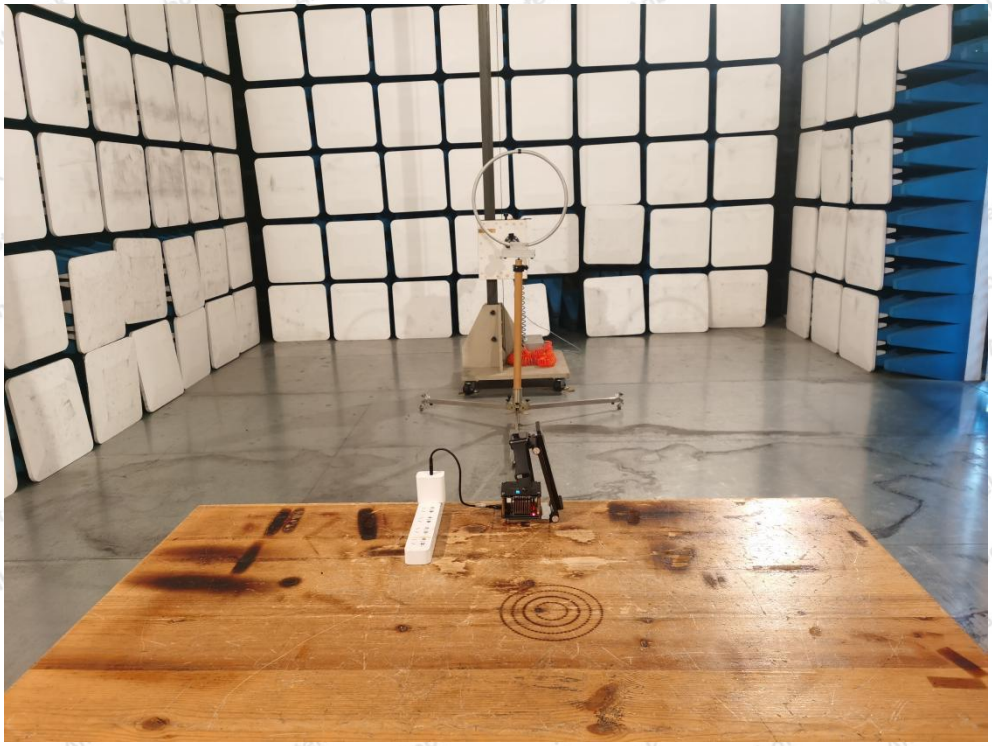
5.2. Antenna Connected Construction

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.

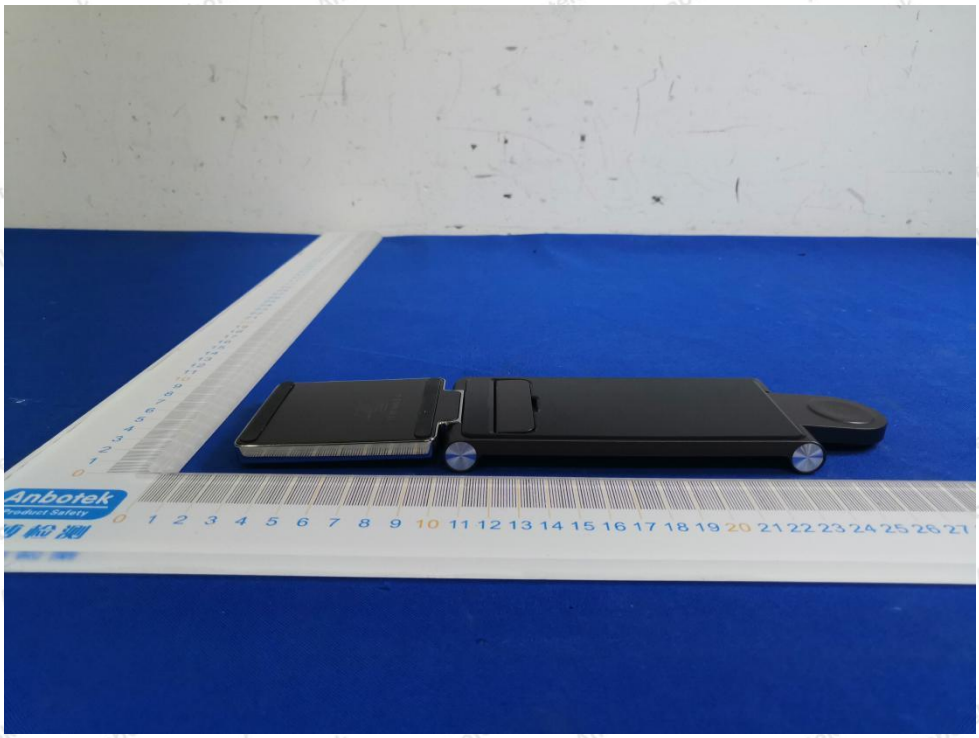
APPENDIX I -- TEST SETUP PHOTOGRAPH

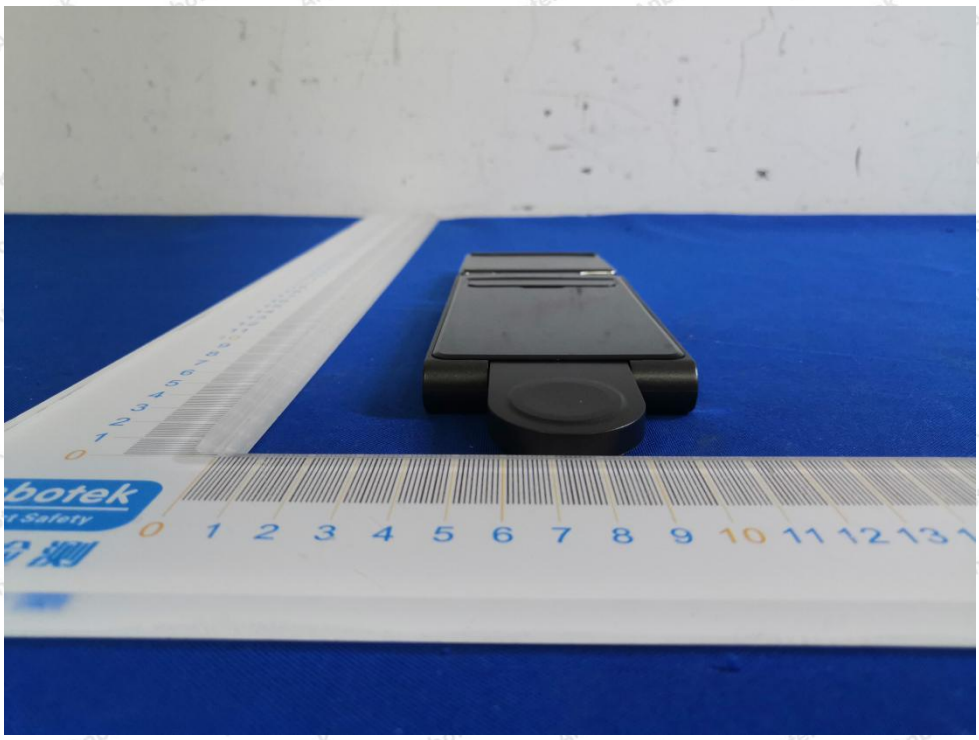
Photo of Conducted Emission Measurement

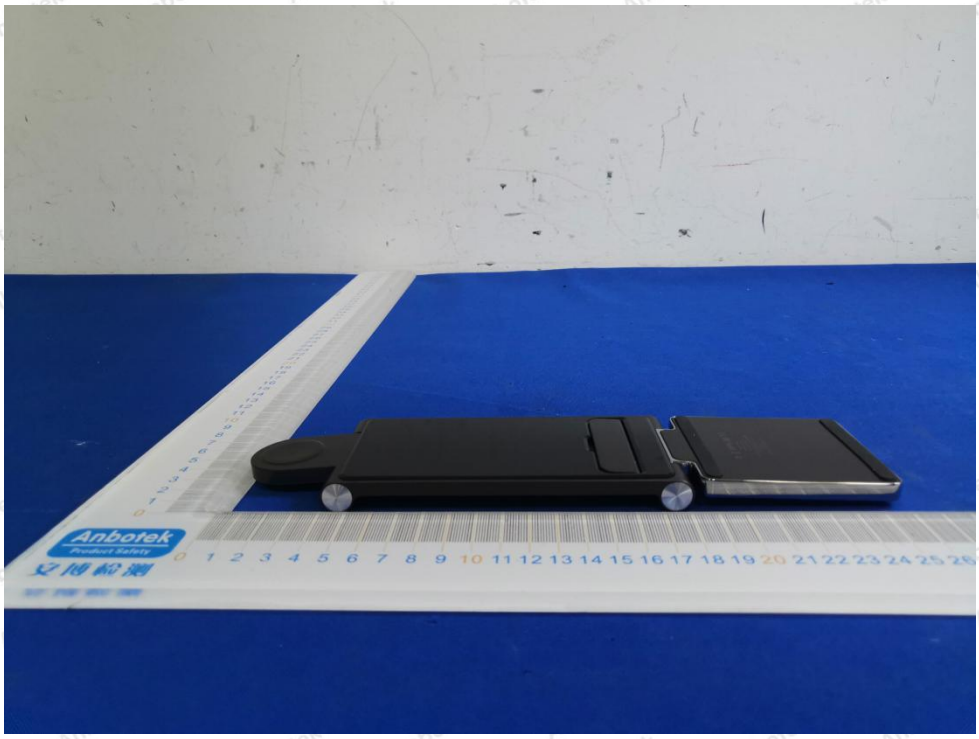
Photo of Radiation Emission Test

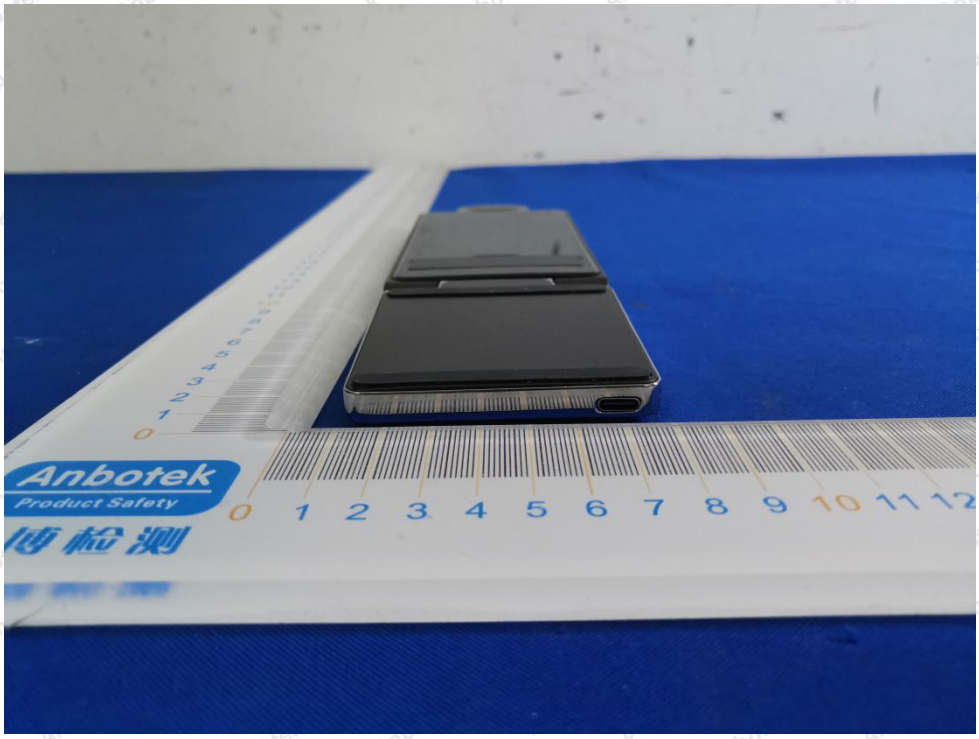


APPENDIX II -- EXTERNAL PHOTOGRAPH

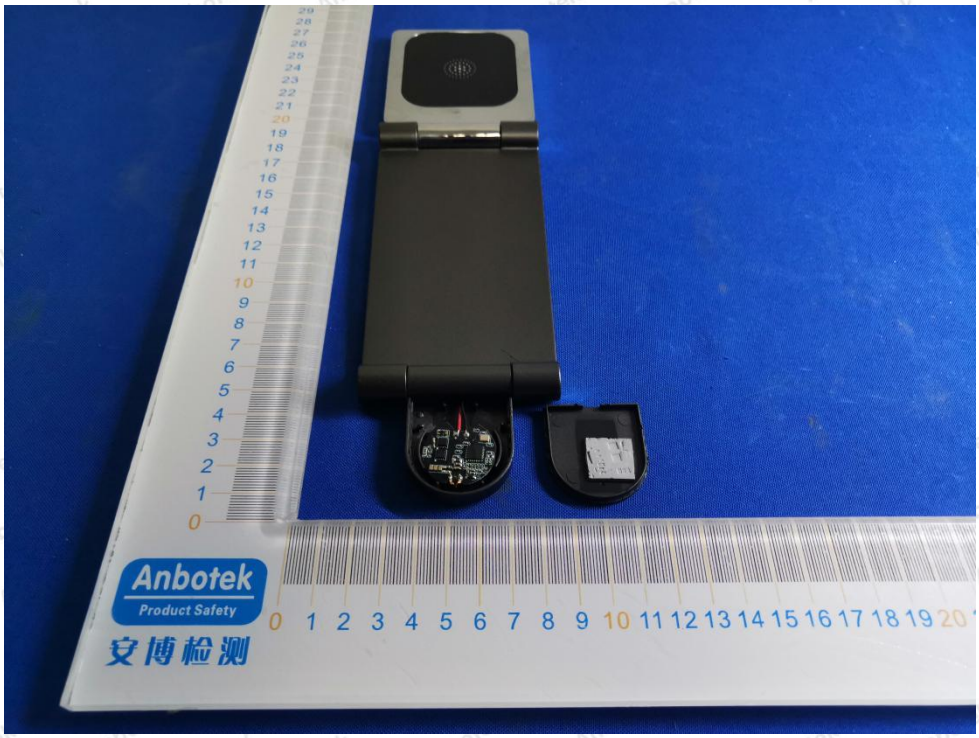








APPENDIX III -- INTERNAL PHOTOGRAPH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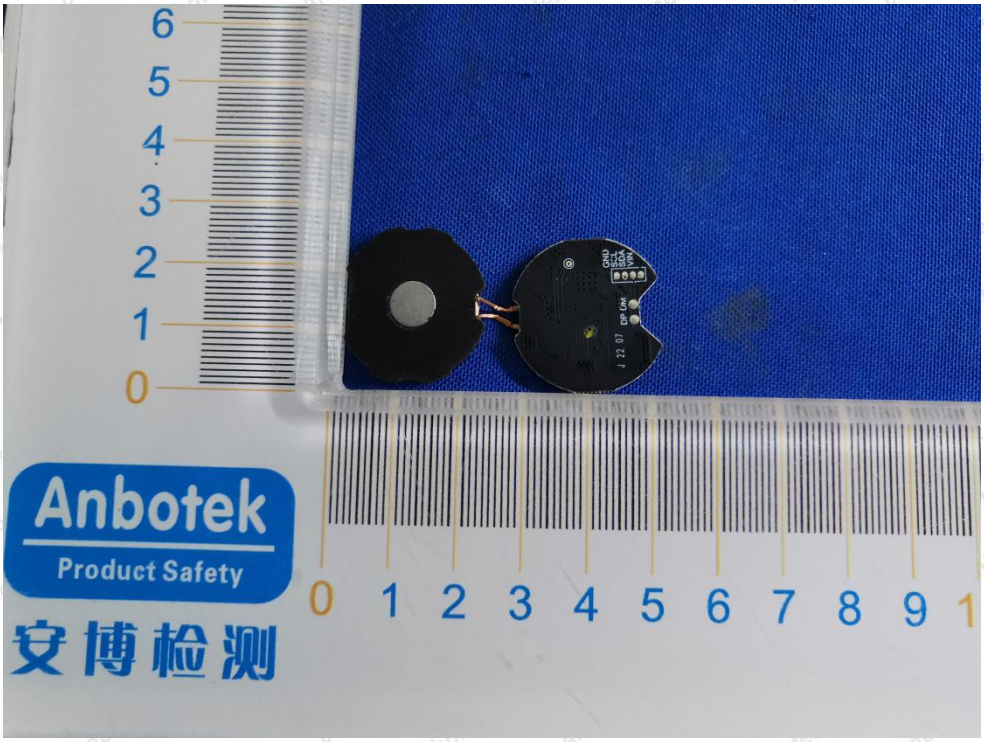
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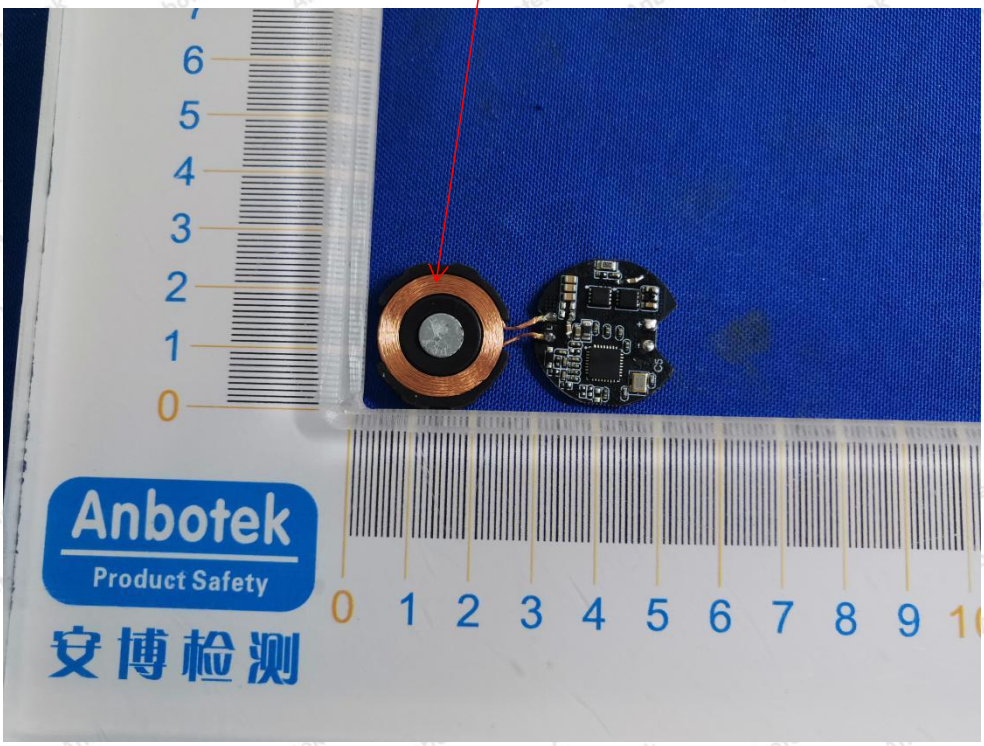

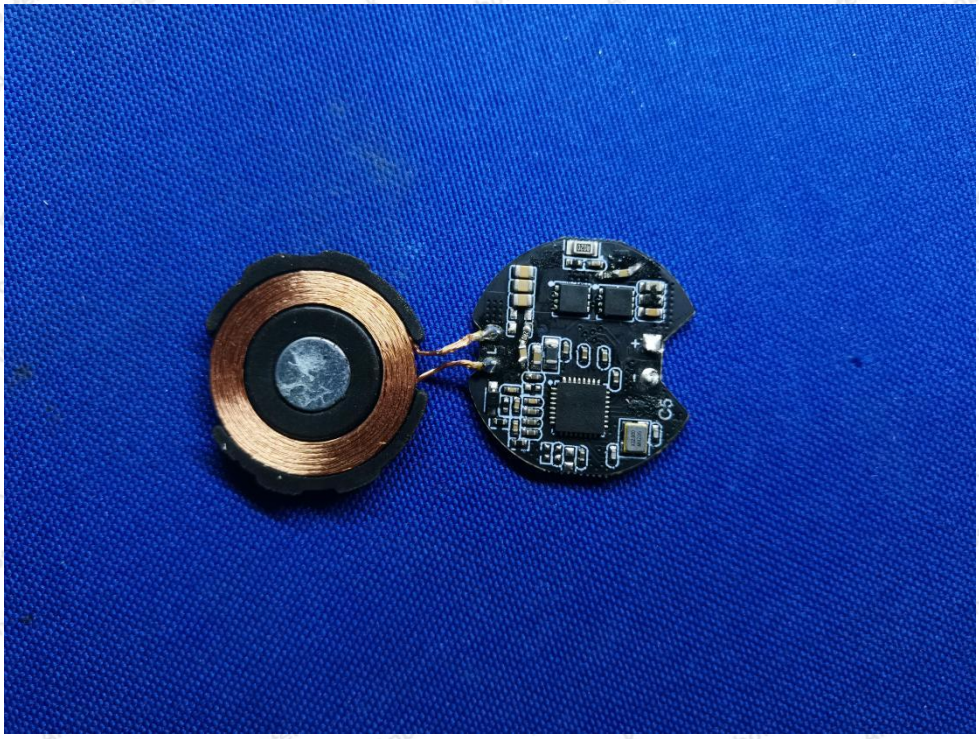

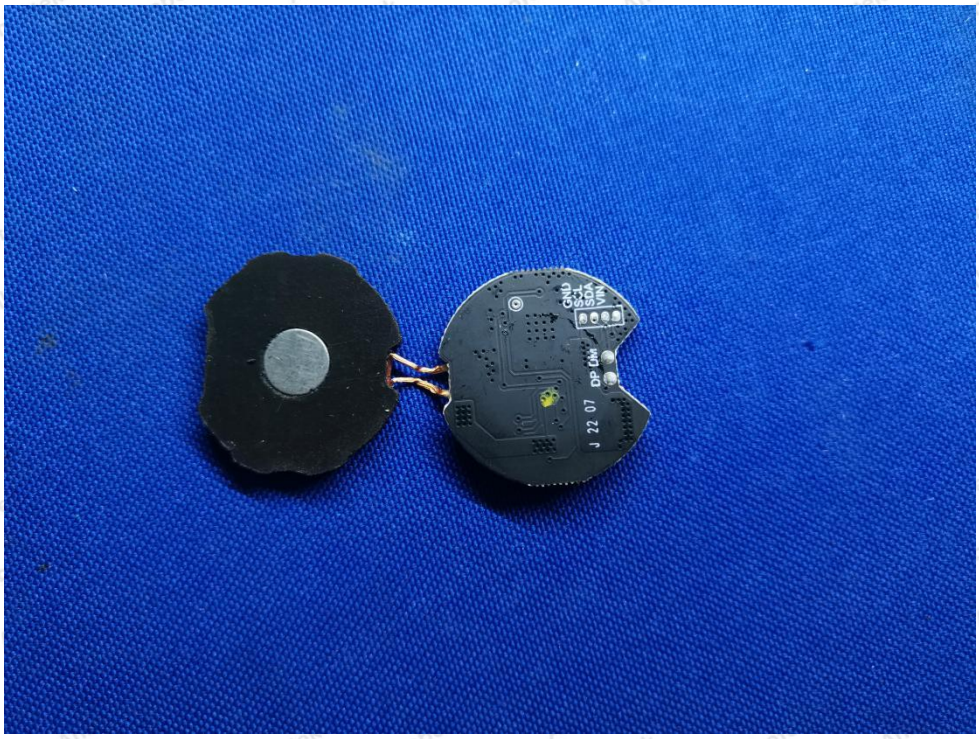
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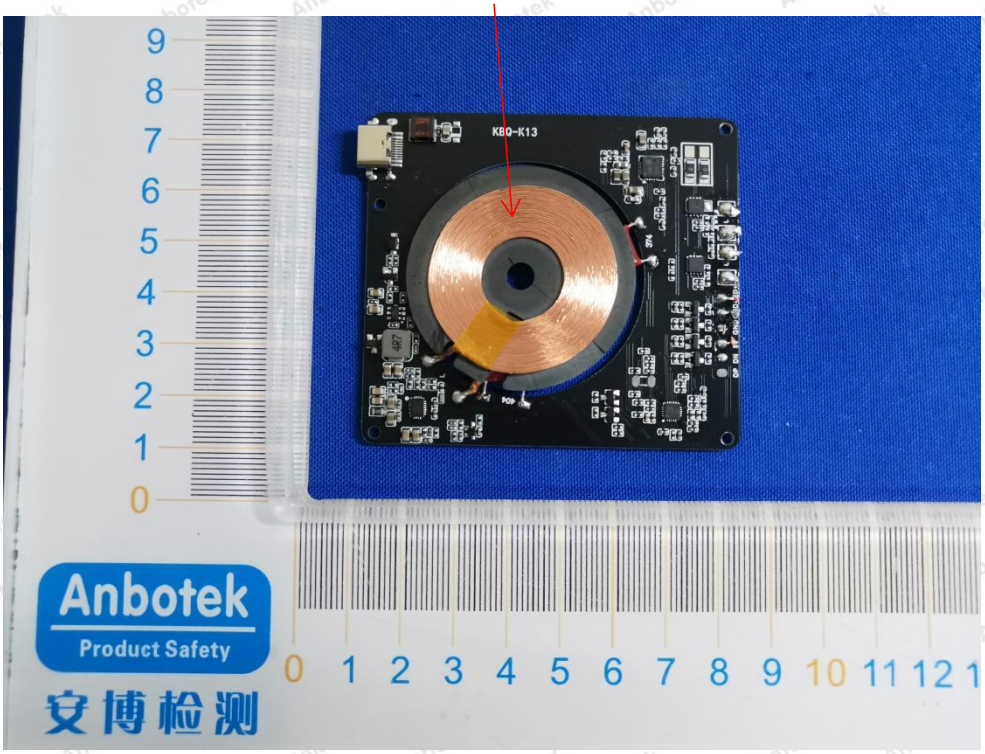
ANT 3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Product Safety
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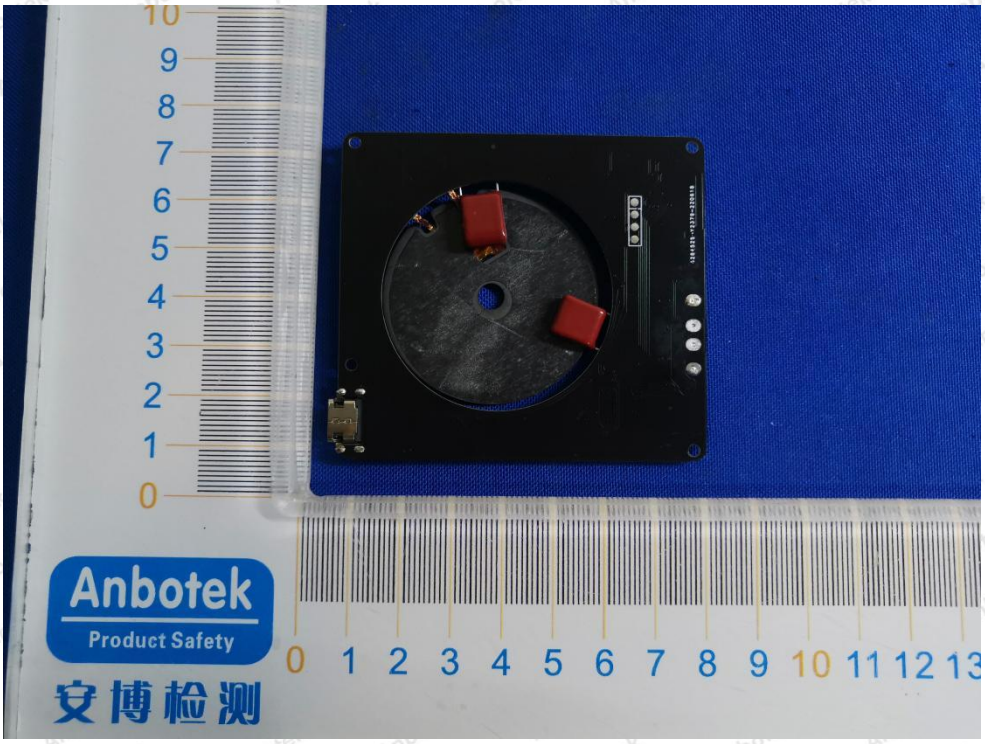
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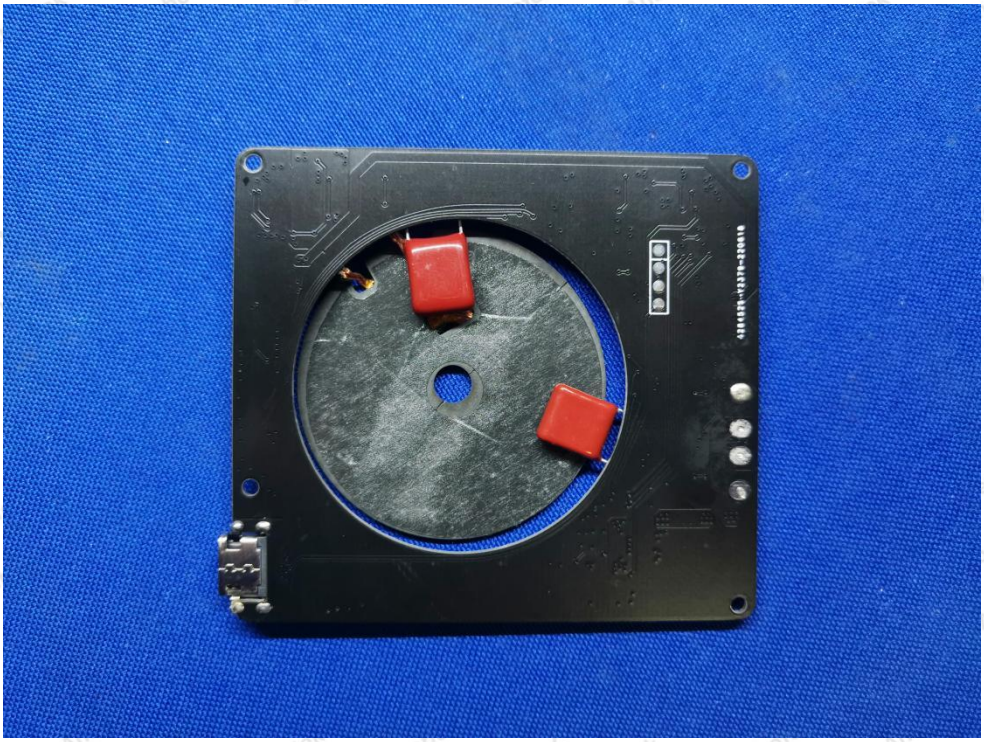

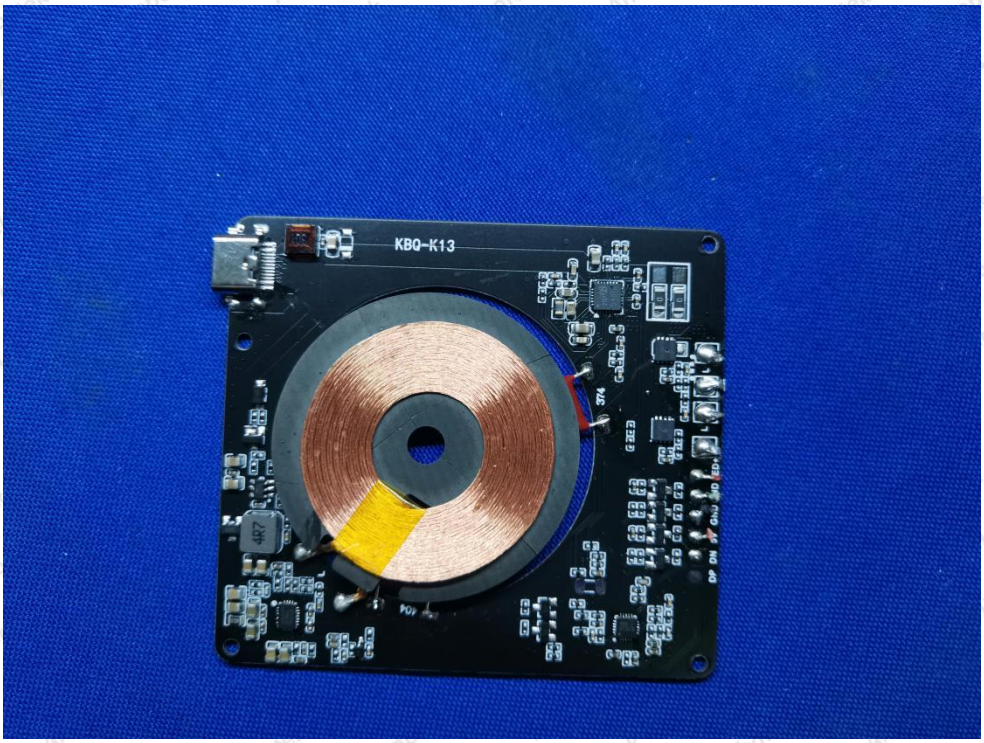

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