



Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

FCC PART 15 SUBPART C TEST REPORT

Report Reference No..... : CTA23121201201

FCC ID..... : 2AZBC-KTM8-01

Compiled by

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Eric Wang

Date of issue.....: Dec. 18, 2023

Testing Laboratory Name.....: Shenzhen CTA Testing Technology Co., Ltd.

Address.....: Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name.....: Shenzhen Kuntu Technology Co. LTD

Address.....: 401, Building 3, No. 109, Yanluo Road, Luotian Community, Shenzhen, China

Test specification.....:

Standard.....: FCC Rules and Regulations Part 15 Subpart C (Section 15.209), ANSI C63.10: 2013

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Test item description.....: 3 in 1 wireless charger

Trade Mark.....: N/A

Manufacturer.....: Shenzhen Kuntu Technology Co. LTD

Model/Type reference.....: KTM8

Listed Models: N/A

Operation Frequency.....: 110.2kHz - 205kHz

Rating.....: N/A

Result.....: PASS

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TEST REPORT

Equipment under Test : 3 in 1 wireless charger

Model /Type : KTM8

Listed Models : N/A

Applicant : **Shenzhen Kuntu Technology Co. LTD**

Address : 401,Building 3,No.109, Yanluo Road,Luotian Community, Shenzhen,
China

Manufacturer : **Shenzhen Kuntu Technology Co. LTD**

Address : 401,Building 3,No.109, Yanluo Road,Luotian Community, Shenzhen,
China

Test Result:	PASS
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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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

2 SUMMARY

2.1 General Remarks

Date of receipt of test sample	:	Dec. 12, 2023
Testing commenced on	:	Dec. 18, 2023
Testing concluded on	:	Dec. 18, 2023

2.2 Product Description

Product Name:	3 in 1 wireless charger
Model/Type reference:	KTM8
Hardware version:	V1.0
Software version:	V1.0
Test samples ID:	CTA23121201201-1# (Engineer sample) CTA23121201201-2# (Normal sample)
Power supply:	Input: 5V/3A,9V/2.22A Wireless charging Output: 15W fro Phone Wireless charging Output: 5W fro Earphone Wireless charging Output: 3W fro Watch
Adapter information:	Model: EP-TA20CBC Input: AC 100-240V 50/60Hz Output: DC 9V 2A
Operation frequency:	110.2kHz - 205kHz
Modulation type:	ASK
Antenna type:	Coil Antenna

2.3 Description of the test mode

Equipment under test was operated during the measurement under the following conditions:

☒ Charging and communication mode

Operation mode	Description
Mode 1	AC/DC Adapter (9V/2.2A+EUT+Phone+Watch+TWS Earphone (Battery Status: <1%))
Mode 2	AC/DC Adapter (9V/2.2A+EUT+Phone+Watch+TWS Earphone (Battery Status: <50%))
Mode 3	AC/DC Adapter (9V/2.2A+EUT+Phone+Watch+TWS Earphone (Battery Status: <100%))
Mode 4	AC/DC Adapter (9V/2.2A+EUT+Phone+Watch(Battery Status: <1%))
Mode 5	AC/DC Adapter (9V/2.2A+EUT+Phone+Watch(Battery Status: <50%))
Mode 6	AC/DC Adapter (9V/2.2A+EUT+Phone+Watch (Battery Status: <100%))
Mode 7	AC/DC Adapter (9V/2.2A+EUT+Phone+TWS Earphone (Battery Status: <1%))
Mode 8	AC/DC Adapter (9V/2.2A+EUT+Phone+TWS Earphone (Battery Status: <50%))
Mode 9	AC/DC Adapter (9V/2.2A+EUT+Phone+TWS Earphone (Battery Status: <100%))
Mode 10	AC/DC Adapter (9V/2.2A+EUT+Watch+TWS Earphone (Battery Status: <1%))
Mode 11	AC/DC Adapter (9V/2.2A+EUT+Watch+TWS Earphone (Battery Status: <50%))

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Mode 12	AC/DC Adapter (9V/2.2A+EUT+Watch+TWS Earphone (Battery Status: <100%))
Mode 13	AC/DC Adapter (9V/2.2A+EUT+Phone (Battery Status: <1%))
Mode 14	AC/DC Adapter (9V/2.2A+EUT+Phone (Battery Status: <50%))
Mode 15	AC/DC Adapter (9V/2.2A+EUT+Phone (Battery Status: <100%))
Mode 16	AC/DC Adapter (9V/2.2A+EUT+Watch (Battery Status: <1%))
Mode 17	AC/DC Adapter (9V/2.2A+EUT+Watch (Battery Status: <50%))
Mode 18	AC/DC Adapter (9V/2.2A+EUT+Watch (Battery Status: <100%))
Mode 19	AC/DC Adapter (9V/2.2A+EUT+TWS Earphone (Battery Status: <1%))
Mode 20	AC/DC Adapter (9V/2.2A+EUT+TWS Earphone (Battery Status: <50%))
Mode 21	AC/DC Adapter (9V/2.2A+EUT+TWS Earphone (Battery Status: <100%))

Note: We tested all Modes and recorded the worst case as follow:

Test item	Test mode
Conducted emission	Mode 1
Radiated emission	Mode 1

2.4 Special Accessories

Follow auxiliary equipment(s) test with EUT that provided by the manufacturer or laboratory is listed as follow:

Item	Name	Description	Model	Certificate	Note
1	Phone	Huawei	Mate30	FCC	/
2	Watch	Huawei	WATCH GT 3	FCC	/
3	TWS Earphone	Xiaomi	Air2S	FCC	/
4	Adapter	Huawei	HW-050200C02	FCC	/

2.5 Modifications

No modifications were implemented to meet testing criteria.

3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community,
Fuhai Street, Bao'an District, Shenzhen, China

3.2 Test Facility

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

FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Radiated Emission:

Temperature:	24 ° C
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

AC Power Conducted Emission:

Temperature:	25 ° C
Humidity:	46 %
Atmospheric pressure:	950-1050mbar

Conducted testing:

Temperature:	25 ° C
Humidity:	44 %
Atmospheric pressure:	950-1050mbar

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3.4 Summary of measurement results

Description of test	Result
Conducted emissions test	Compliant
Radiated emission test	Compliant
The 20dB bandwidth measurement	Compliant

3.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen CTA Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen CTA laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.06 dB	(1)
Radiated Emission	1~18GHz	5.14 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.6 Equipments Used during the Test

Test Equipment	Manufacturer	Model No.	Equipment No.	Calibration Date	Calibration Due Date
LISN	R&S	ENV216	CTA-308	2023/08/02	2024/08/01
LISN	R&S	ENV216	CTA-314	2023/08/02	2024/08/01
EMI Test Receiver	R&S	ESPI	CTA-307	2023/08/02	2024/08/01
EMI Test Receiver	R&S	ESCI	CTA-306	2023/08/02	2024/08/01
Spectrum Analyzer	Agilent	N9020A	CTA-301	2023/08/02	2024/08/01
Spectrum Analyzer	R&S	FSP	CTA-337	2023/08/02	2024/08/01
Vector Signal generator	Agilent	N5182A	CTA-305	2023/08/02	2024/08/01
Analog Signal Generator	R&S	SML03	CTA-304	2023/08/02	2024/08/01
Universal Radio Communication	CMW500	R&S	CTA-302	2023/08/02	2024/08/01
Temperature and humidity meter	Chigo	ZG-7020	CTA-326	2023/08/02	2024/08/01
Ultra-Broadband Antenna	Schwarzbeck	VULB9163	CTA-310	2023/08/02	2024/08/01
Horn Antenna	Schwarzbeck	BBHA 9120D	CTA-309	2023/08/02	2024/08/01
Loop Antenna	Zhinan	ZN30900C	CTA-311	2023/08/02	2024/08/01
Horn Antenna	Beijing Hangwei Dayang	OBH100400	CTA-336	2023/08/02	2024/08/01
Amplifier	Schwarzbeck	BBV 9745	CTA-312	2023/08/02	2024/08/01
Amplifier	Taiwan chengyi	EMC051845B	CTA-313	2023/08/02	2024/08/01
Directional coupler	NARDA	4226-10	CTA-303	2023/08/02	2024/08/01
High-Pass Filter	XingBo	XBLBQ-GTA18	CTA-402	2023/08/02	2024/08/01
High-Pass Filter	XingBo	XBLBQ-GTA27	CTA-403	2023/08/02	2024/08/01
Automated filter bank	Tonscend	JS0806-F	CTA-404	2023/08/02	2024/08/01
Power Sensor	Agilent	U2021XA	CTA-405	2023/08/02	2024/08/01
Amplifier	Schwarzbeck	BBV9719	CTA-406	2023/08/02	2024/08/01

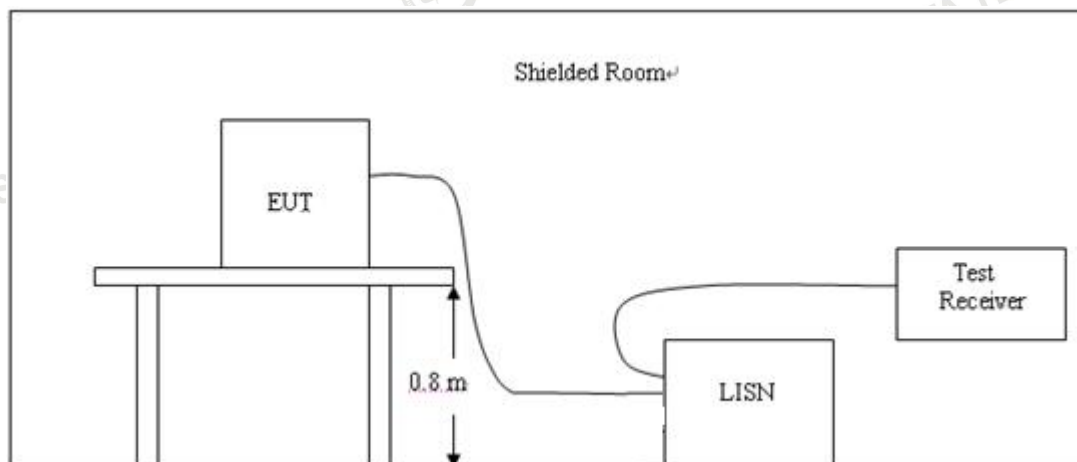
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4 TEST CONDITIONS AND RESULTS

4.1 AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

- 1, The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
- 2, Support equipment, if needed, was placed as per ANSI C63.10.
- 3, All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4, If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5, All support equipments received AC power from a second LISN, if any.
- 6, The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7, Analyzer / Receiver scanned from 150 KHZ to 30MHz for emissions in each of the test modes.

AC Power Conducted Emission Limit

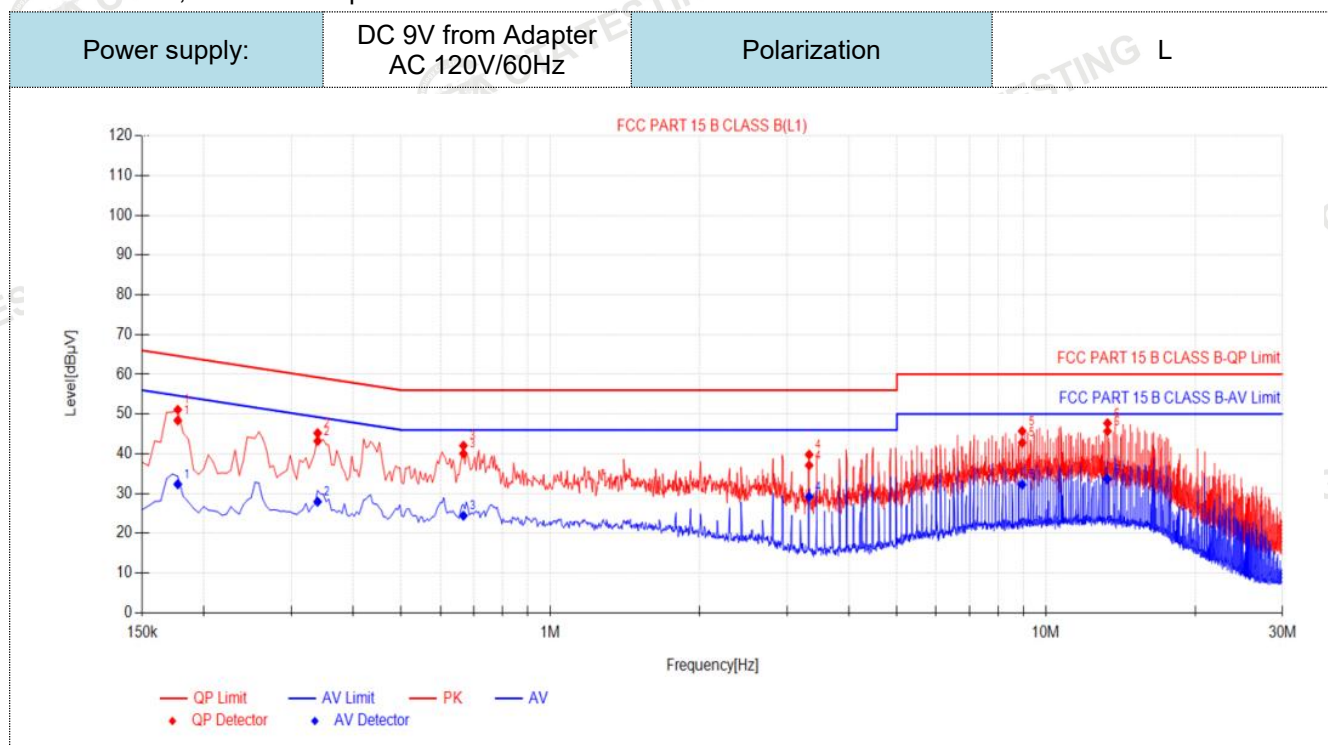
For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following:

Frequency range (MHz)	Limit (dBuV)	
	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 RESULTS

1. Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:

**Final Data List**

NO.	Freq. [MHz]	Factor [dB]	QP Reading[dB μV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.177	9.99	38.40	48.39	64.63	16.24	22.35	32.34	54.63	22.29	PASS
2	0.339	9.89	33.31	43.20	59.23	16.03	18.04	27.93	49.23	21.30	PASS
3	0.6675	9.95	30.09	40.04	56.00	15.96	14.46	24.41	46.00	21.59	PASS
4	3.327	9.98	27.11	37.09	56.00	18.91	19.19	29.17	46.00	16.83	PASS
5	8.952	10.27	32.52	42.79	60.00	17.21	21.96	32.23	50.00	17.77	PASS
6	13.308	10.29	35.38	45.67	60.00	14.33	23.34	33.63	50.00	16.37	PASS

Note: 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)

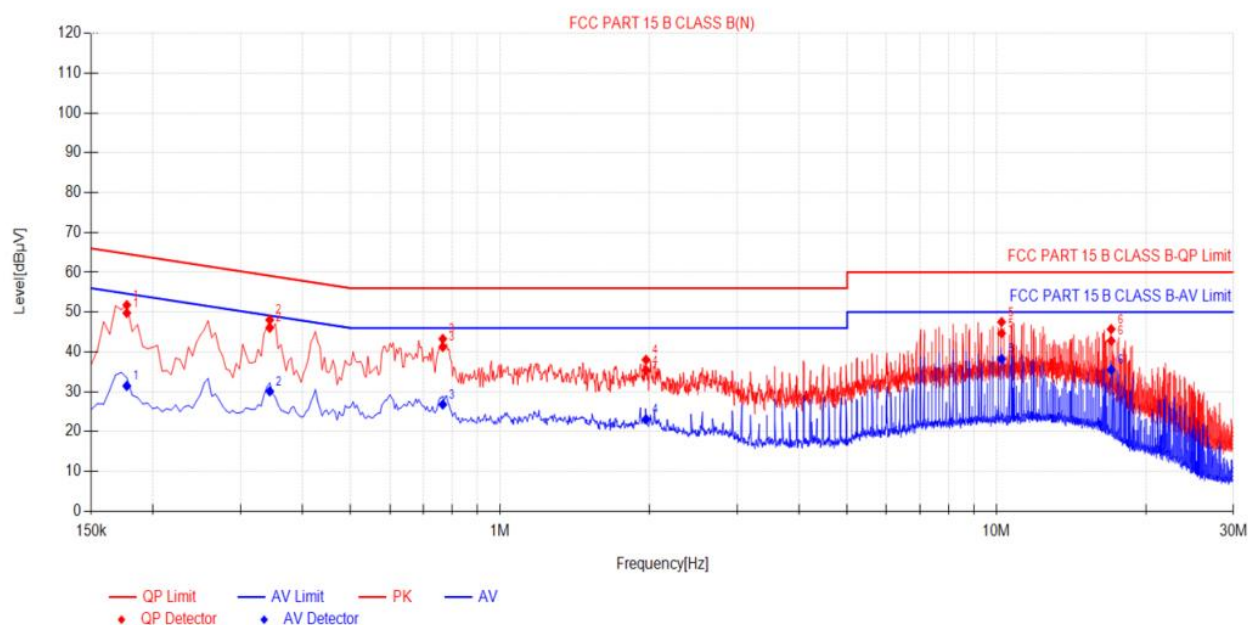
4). AVMargin(dB) = AV Limit (dBμV) - AV Value (dBμV)

Power supply:

DC 9V from Adapter
AC 120V/60Hz

Polarization

N



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading[dB μV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.177	10.05	39.70	49.75	64.63	14.88	21.41	31.46	54.63	23.17	PASS
2	0.3435	9.86	36.18	46.04	59.12	13.08	20.25	30.11	49.12	19.01	PASS
3	0.7665	10.11	31.14	41.25	56.00	14.75	16.68	26.79	46.00	19.21	PASS
4	1.968	10.19	25.21	35.40	56.00	20.60	12.91	23.10	46.00	22.90	PASS
5	10.239	10.40	34.27	44.67	60.00	15.33	27.84	38.24	50.00	11.76	PASS
6	17.0205	10.48	32.30	42.78	60.00	17.22	25.03	35.51	50.00	14.49	PASS

Note: 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)

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4.2 Radiated Emission

Limit

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

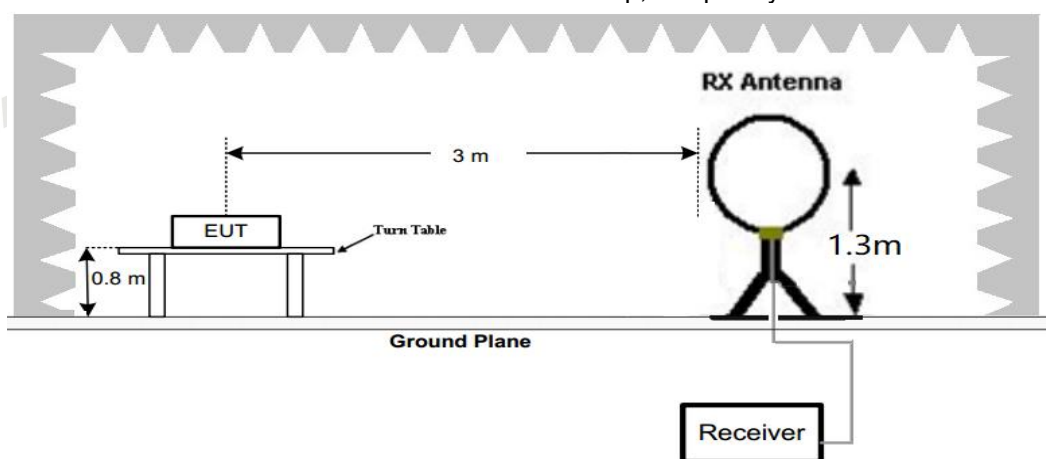
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

Radiated emission limits

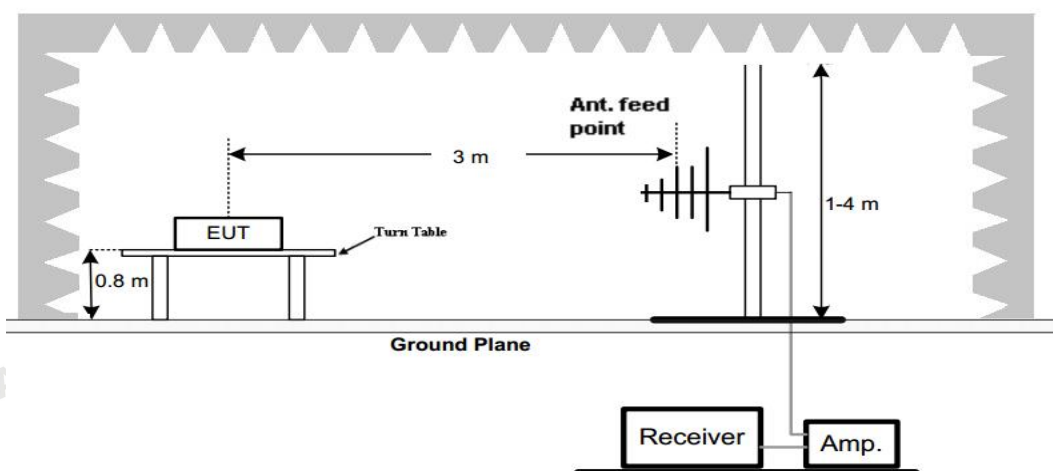
Frequency (MHz)	Distance (Meters)	Radiated (dBμV/m)	Radiated (μV/m)
0.009-0.49	3	$20\log(2400/F(\text{KHz}))+40\log(300/3)$	$2400/F(\text{KHz})$
0.49-1.705	3	$20\log(24000/F(\text{KHz}))+40\log(30/3)$	$24000/F(\text{KHz})$
1.705-30	3	$20\log(30)+40\log(30/3)$	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

TEST CONFIGURATION

1. Radiated Emission Test Set-Up, Frequency Below 30MHz



2. Radiated Emission Test Set-Up, Frequency below 1000MHz



Test Procedure

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- Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane.
- Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turntable from 0° to 360° to acquire the highest emissions from EUT
- And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- Repeat above procedures until all frequency measurements have been completed.
- Radiated emission test frequency band from 9KHz to 1000MHz.
- The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Bilog Antenna	3

- Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz, Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz, Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz, Sweep time=Auto	QP

TEST RESULTS

For 9 KHz-30MHz

WORST-CASE RADIATED EMISSION BELOW 30 MHz

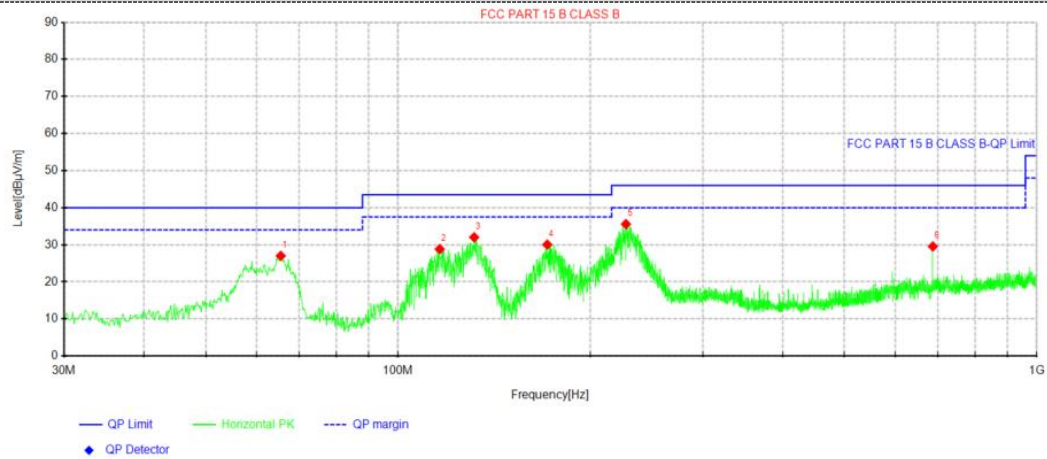
Frequency	Reading	Polar	Antenna Factor	Cable Loss	Emission Levels	Limits at 3m	Margin	Detector Mode
(MHz)	(dBμV/m)	Loop	(dB/m)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
0.119760(F)	76.92	Loop	23.63	0.02	100.57	106.00	5.43	PK
0.119760(F)	53.89	Loop	23.63	0.02	77.54	86.00	8.46	AV
0.129	51.93	Loop	23.51	0.02	75.46	106.78	31.32	PK
0.129	48.20	Loop	23.51	0.02	71.73	86.78	15.05	AV
1.288	43.37	Loop	23.82	-0.17	67.02	85.41	18.39	QP
1.471	40.42	Loop	24.21	-0.28	64.35	84.25	19.90	QP
2.549	33.89	Loop	24.32	-0.3	57.91	59.48	1.57	QP
--	--	--	--	--	--	--	--	--

Remark:

- Data of measurement within this frequency range shown "-- in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits and not recorded.
- The test limit distance is 3m limit.
- PK means Peak Value, QP means Quasi Peak Value, AV means Average Value.
- F means Fundamental Frequency.
- Emission level (dBμV/m) = Reading + Antenna Factor + Cable Loss.
- Margin value = Limit value- Emission level.

For 30MHz-1GHz

Horizontal



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	65.5262	46.70	27.01	-19.69	40.00	12.99	100	98	Horizontal
2	116.208	48.57	28.83	-19.74	43.50	14.67	100	150	Horizontal
3	131.607	53.40	32.01	-21.39	43.50	11.49	100	115	Horizontal
4	171.256	51.02	30.04	-20.98	43.50	13.46	100	281	Horizontal
5	227.395	54.13	35.57	-18.56	46.00	10.43	100	38	Horizontal
6	687.538	41.29	29.55	-11.74	46.00	16.45	100	141	Horizontal

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)

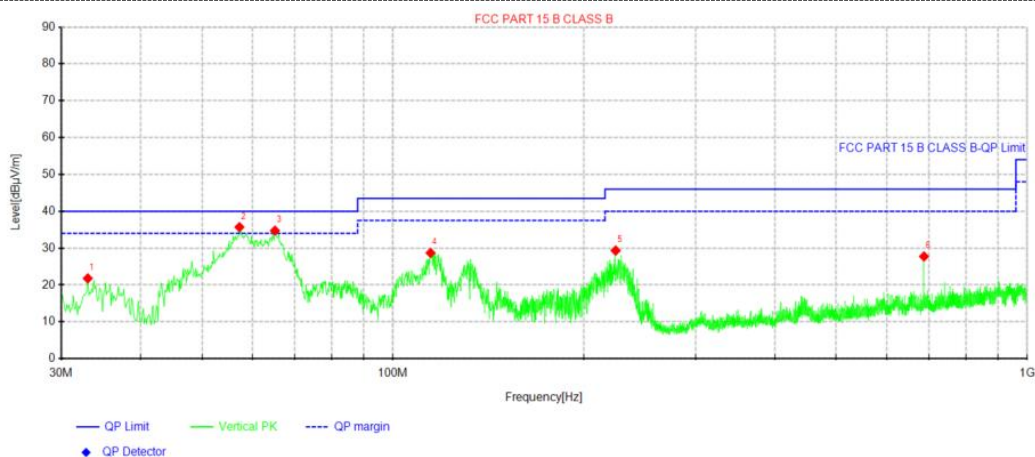
3). Margin (dB) = Limit (dBμV/m) - Level (dBμV/m)

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Vertical



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	33.0312	40.00	21.79	-18.21	40.00	18.21	100	164	Vertical
2	57.2812	53.32	35.70	-17.62	40.00	4.30	100	198	Vertical
3	65.1625	54.33	34.74	-19.59	40.00	5.26	100	233	Vertical
4	114.632	48.21	28.70	-19.51	43.50	14.80	100	224	Vertical
5	224.485	48.00	29.34	-18.66	46.00	16.66	100	130	Vertical
6	687.538	39.49	27.75	-11.74	46.00	18.25	100	310	Vertical

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 The 20dB bandwidth

TEST CONFIGURATION

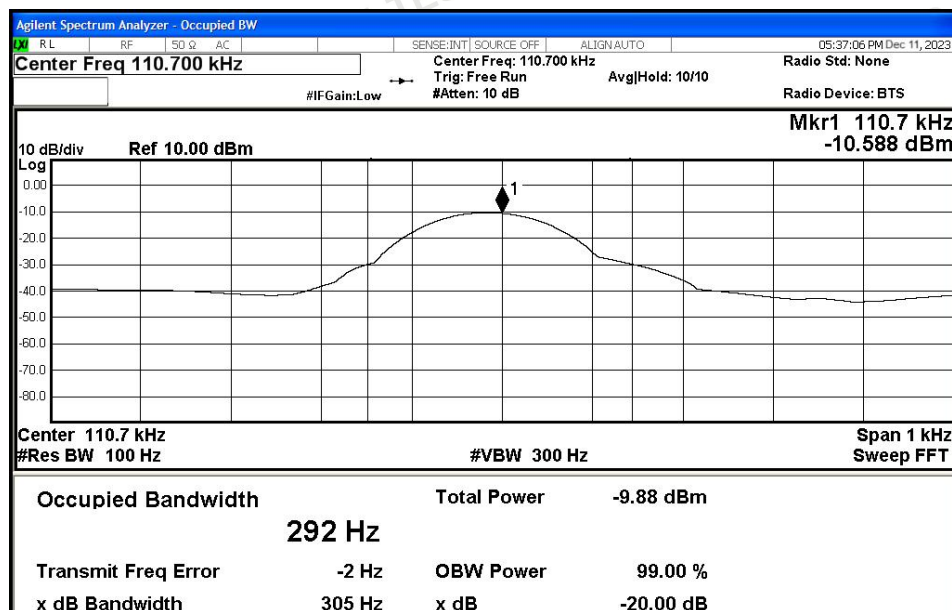


TEST PROCEDURE

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth of the emission. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

TEST RESULTS

Freq (KHz)	20dB Bandwidth (KHz)	Limit (kHz)	Conclusion
110.7	0.305	Non-Specified	PASS



5 Test Setup Photos of the EUT



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Tel:+86-755 2322 5875 E-mail:cta@cta-test.cn Web:http://www.cta-test.cn

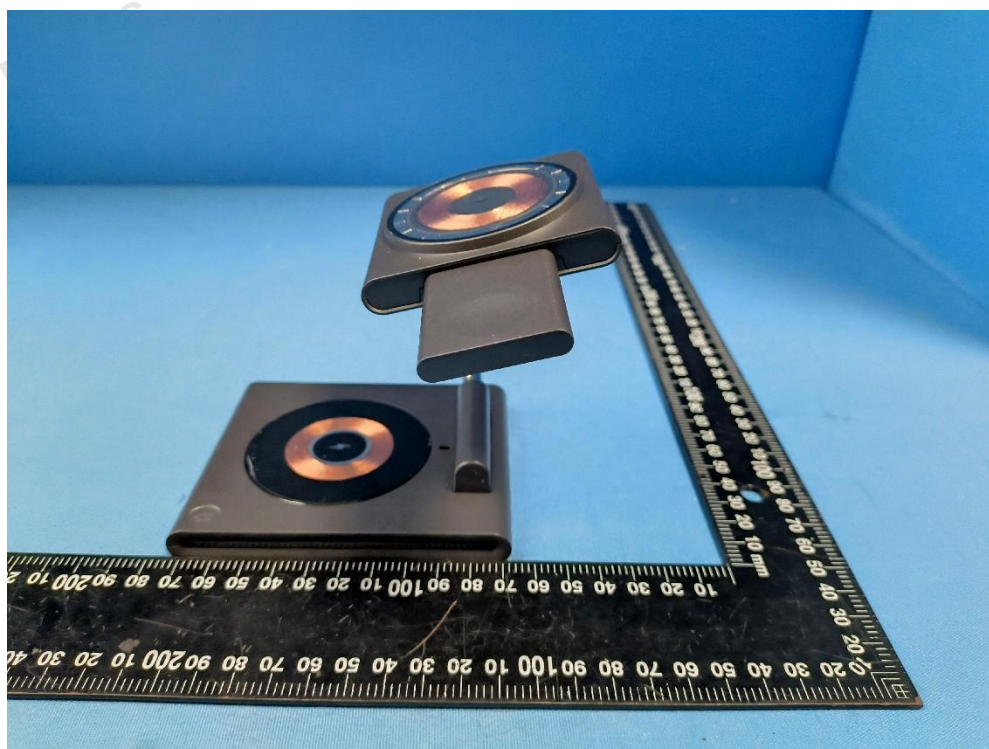
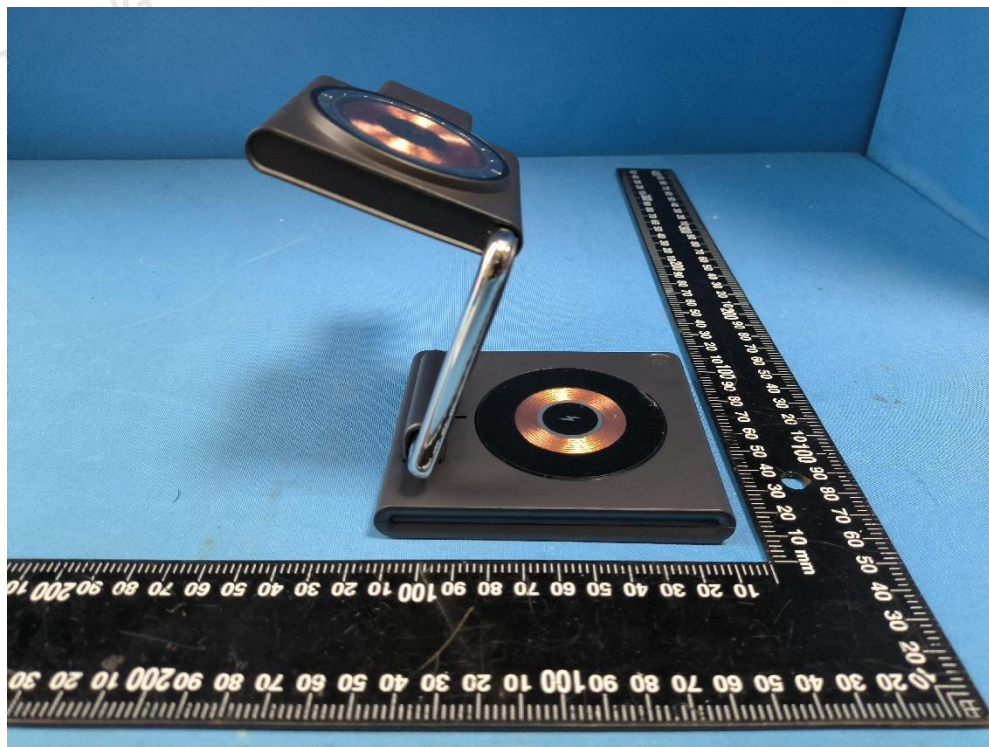
6 PHOTOS OF THE EUT



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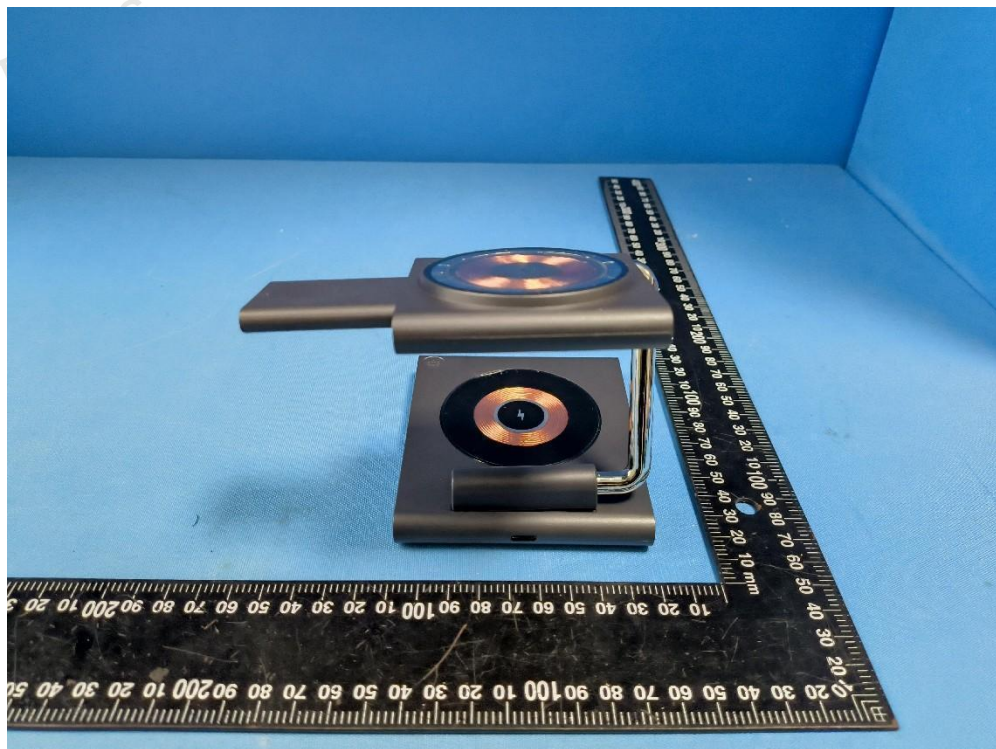
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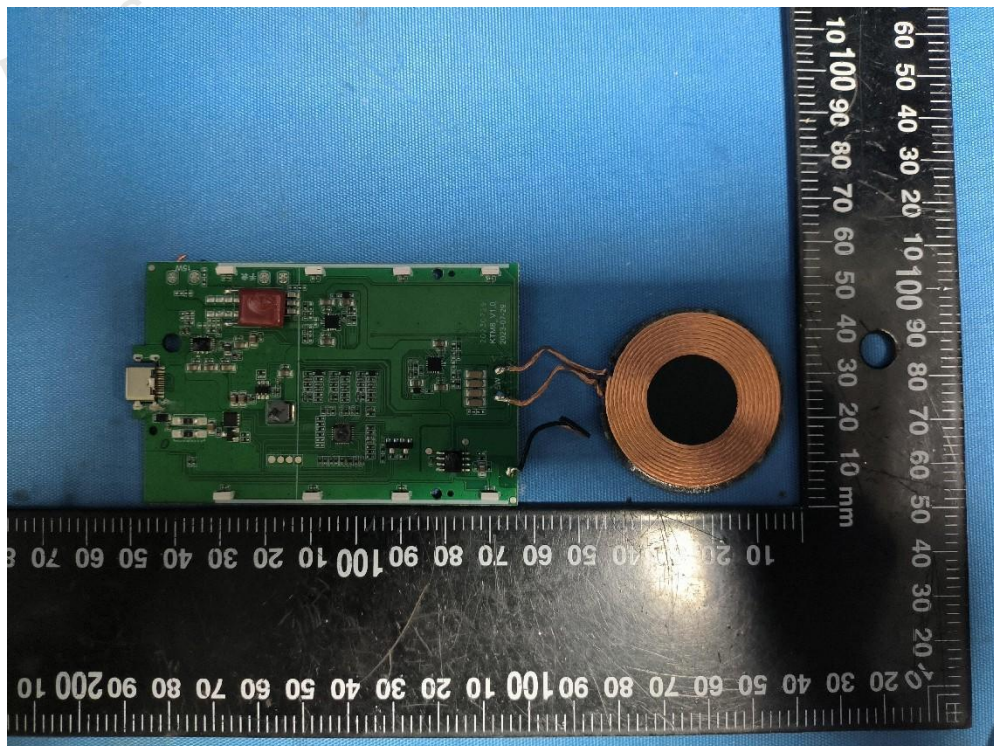
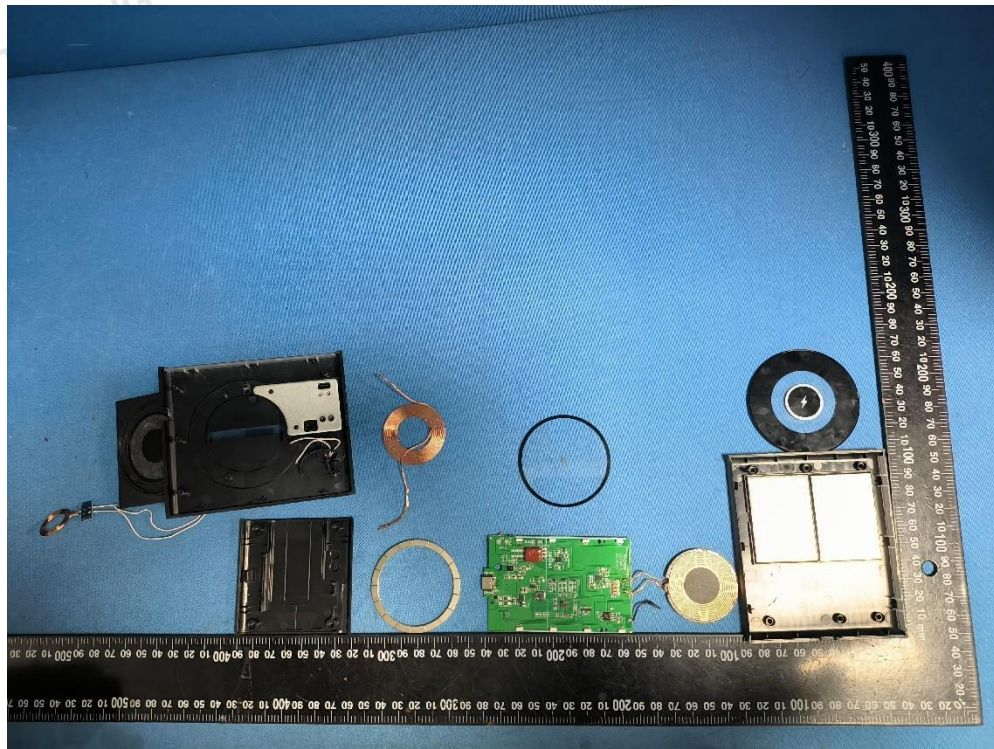
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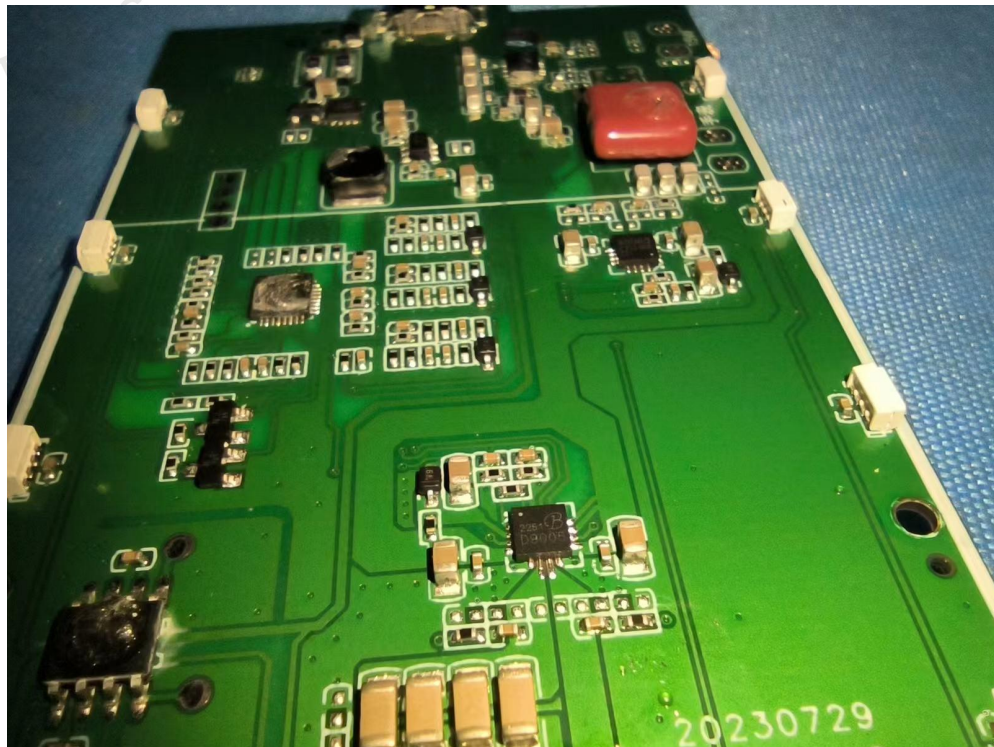
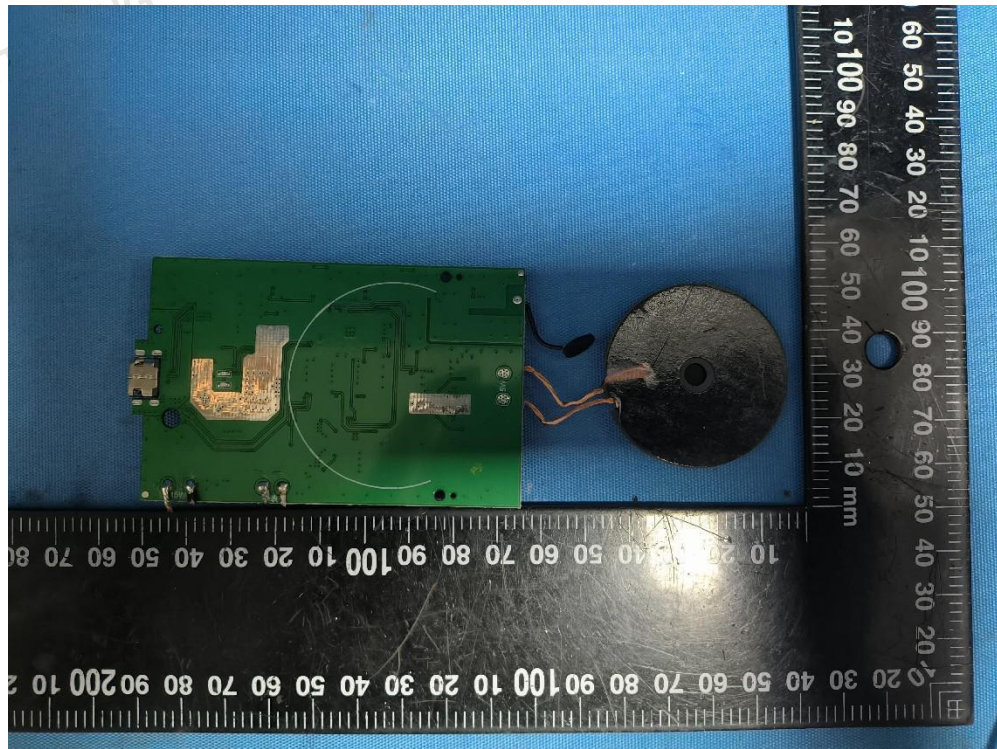
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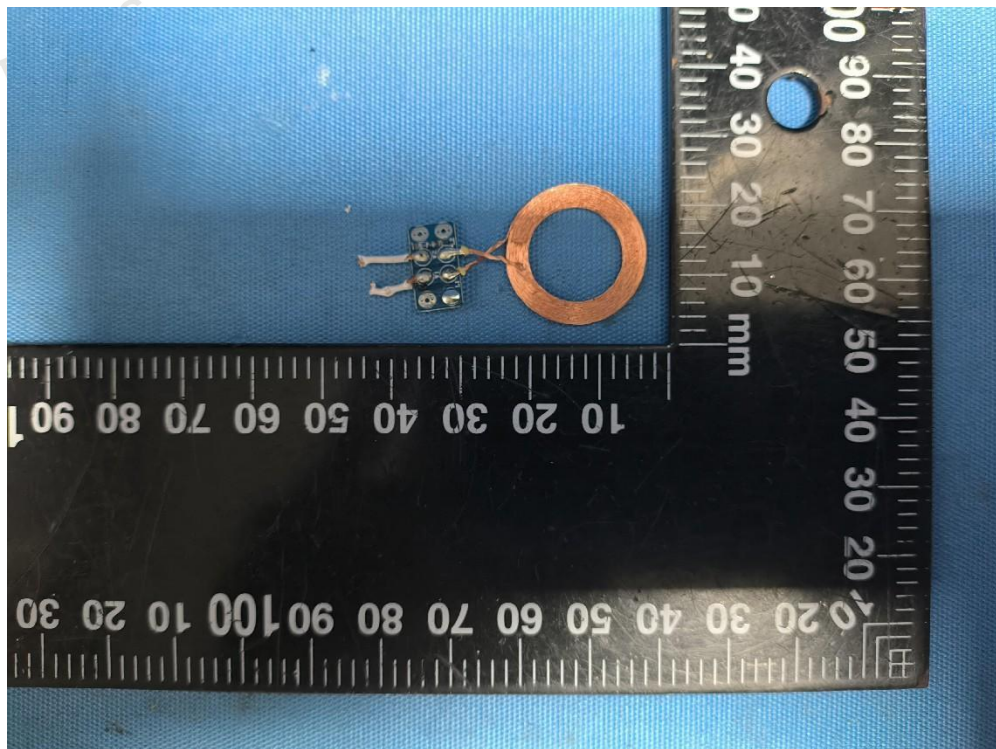
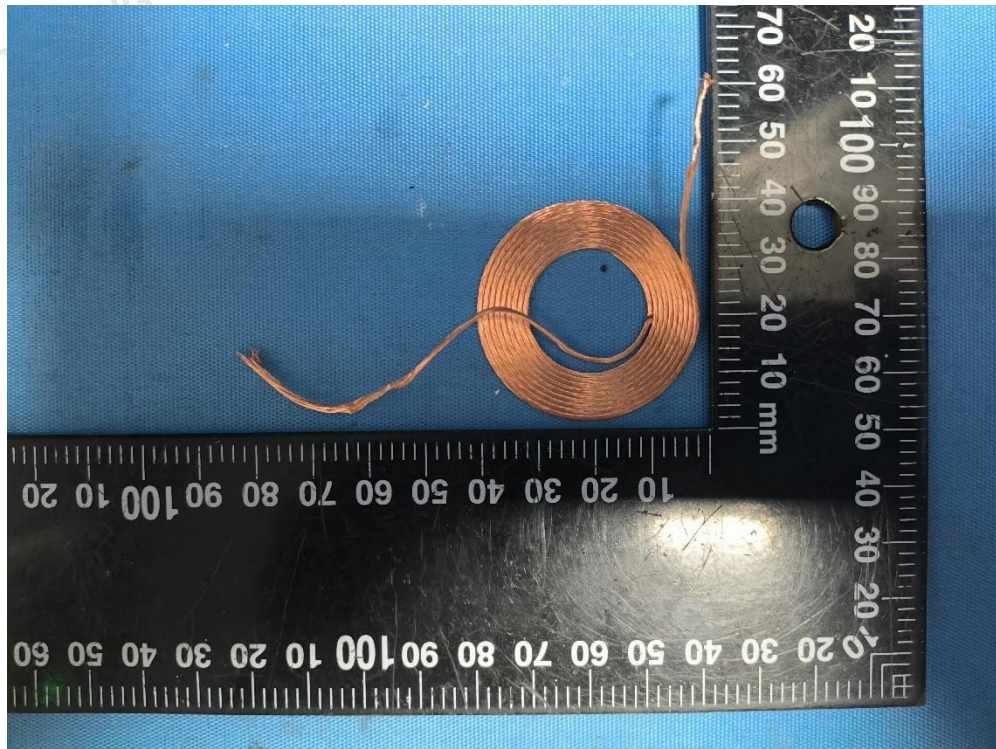
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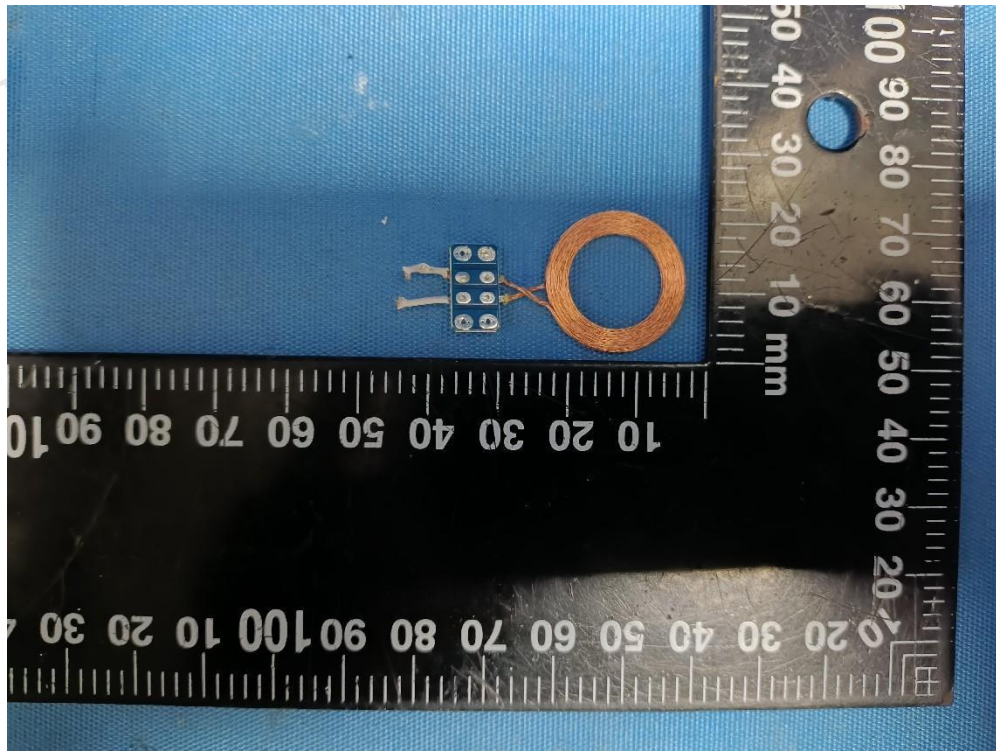
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***** End of Report *****

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