FCC Test Report

Report No.: AGC01748180404FE03

FCC ID	:	2APR2-180001
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Wireless Charger
BRAND NAME	:	N/A
MODEL NAME	:	180001
CLIENT	:	GREAT FOREST MANUFACTURE CO., LTD.
DATE OF ISSUE	:	May 10, 2018
STANDARD(S) **TEST PROCEDURE(S)**	:	FCC Part 15 Rules
REPORT VERSION	:	V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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==REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May 10, 2018	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	GREAT FOREST MANUFACTURE CO, LTD.
Address	Room 1709 Building A, 95 International Mansion, No.598 Jiangnan Road, High-Tech District Ningbo China
Manufacturer	GREAT FOREST MANUFACTURE CO, LTD.
Address	Room 1709 Building A, 95 International Mansion, No.598 Jiangnan Road, High-Tech District Ningbo China
Product Designation	Wireless Charger
Brand Name	N/A
Test Model	180001
Date of test	Apr. 28, 2018 to May 10, 2018
Deviation	None
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with Section 15.207, 15.209, 15.203 of the FCC Part 15, Subpart C Rules.

The results of testing in this report apply to the product/system which was tested only.

Tested by Max Zhang

Max Zhang(Zhang Yi) May 10, 2018

Reviewed by Bart Xie

Bart Xie(Xie Xiaobin)) May 10, 2018

Approved By Forrest Lei

Forrest Lei(Lei Yonggang) May 10, 2018

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	174.6KHz
Maximum field strength	52.05dBuV/m(Peak)@3m
Number of channels	1
Antenna Designation	Integrated Antenna (Met 15.203 Antenna requirement)
Hardware Version	EYM-W22V0.1
Software Version	V1.0
Power Supply	Input: 5V/2A Output: 5V/1A

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3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in measurement” (GUM) published by CISPR and ANSI.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Wireless charging Mode (Full load)
2	Wireless charging Mode (half load)
3	Wireless charging Mode (Null load)

Note:
1. The mode 1 was the worst case and only the data of the worst case record in this report.

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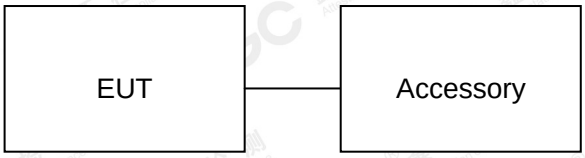
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure :



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Wireless Charger	180001	2APR2-180001	EUT
2	Adapter	HW05010002	100-240V 50/60Hz 0.5A DC5V 1A	Support
3	Wireless electronic Load	--	Maximum power 10.8W	Support

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.209	Radiated Emission	Compliant
§15.215	20dB bandwidth	Compliant
§15.207	Conducted Emission	Compliant

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012
NVLAP LAB CODE	600153-0
Designation Number	CN5028
FCC Test Firm Registration Number	682566
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B	--	Feb. 27, 2018	Feb. 26, 2020
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.20, 2017	Jun.19, 2018
LISN	R&S	ESH2-Z5	100086	Aug.21, 2017	Aug.20, 2018

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7. RADIATED EMISSION

7.1TEST LIMIT

Standard FCC 15.209

Frequency (MHz)	Distance Meters	Field Strengths Limit	
		μ V/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	---
0.490 ~ 1.705	30	24000/F(kHz)	---
1.705 ~ 30	30	30	---
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other:74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Remark: (1) Emission level dBμ V = 20 log Emission level μ V/m
(2) The smaller limit shall apply at the cross point between two frequency bands.
(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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7.2. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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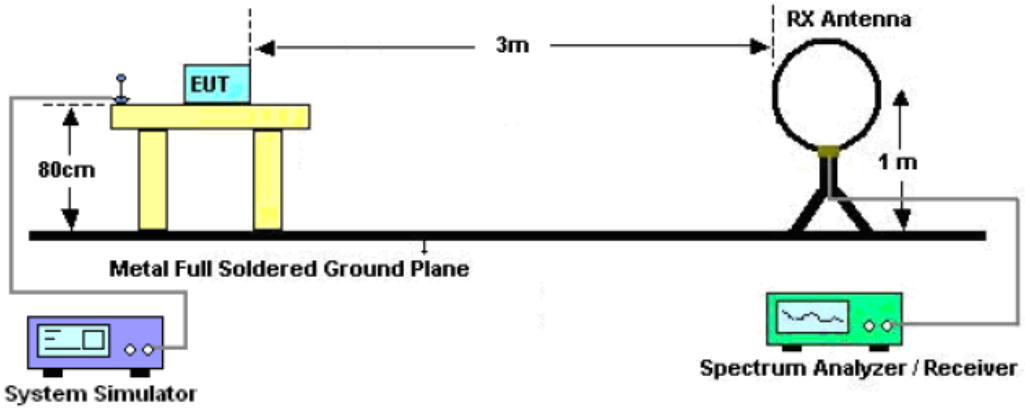
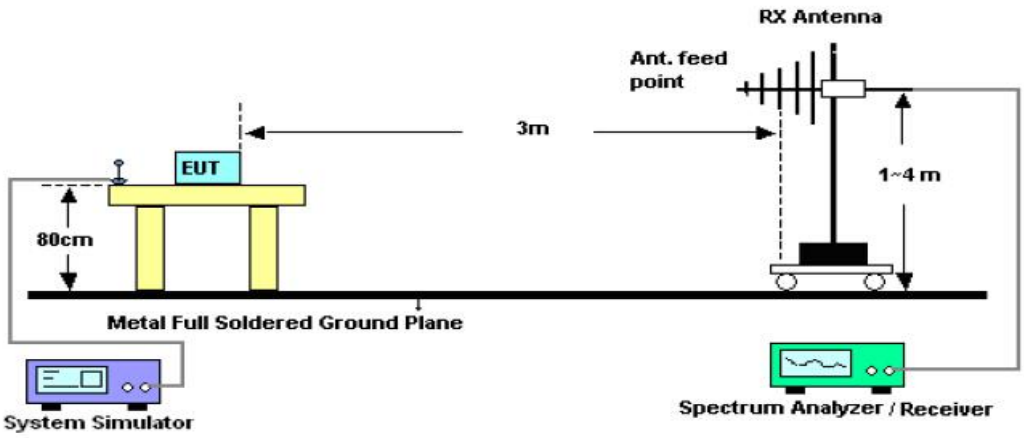
7.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



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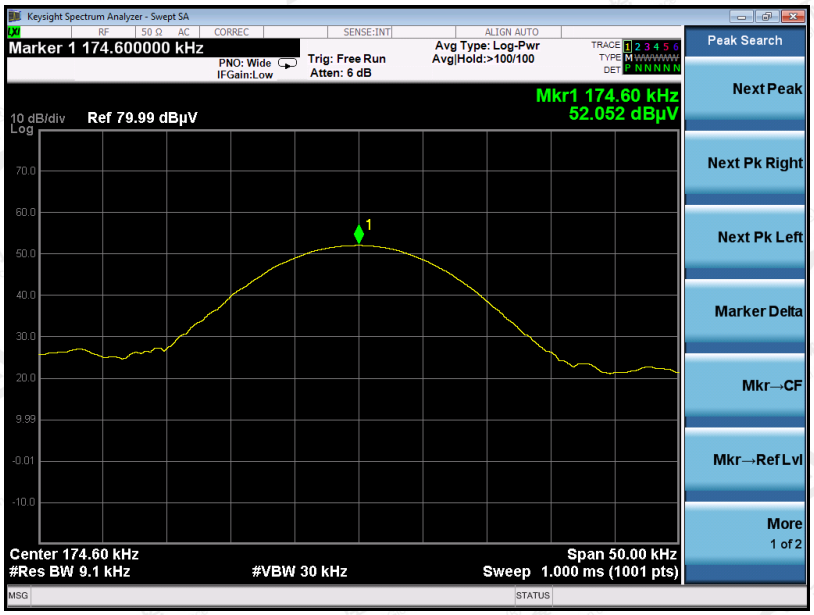
7.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

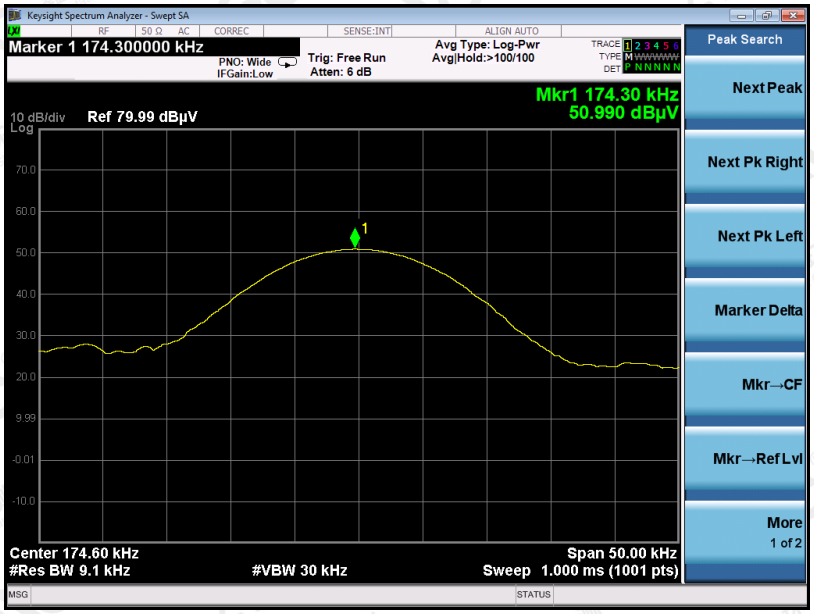
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) Peak	Limit dB(uV/m) Average	Margin dB	Pass/Fail
0.1746	Face	41.65	10.4	52.05	102.76	50.71	Pass
0.1746	Side	40.59	10.4	50.99	102.76	51.77	Pass

The peak level of the emission is less than the average limit, so the average level shall be less than the limit without test.

Face



Side



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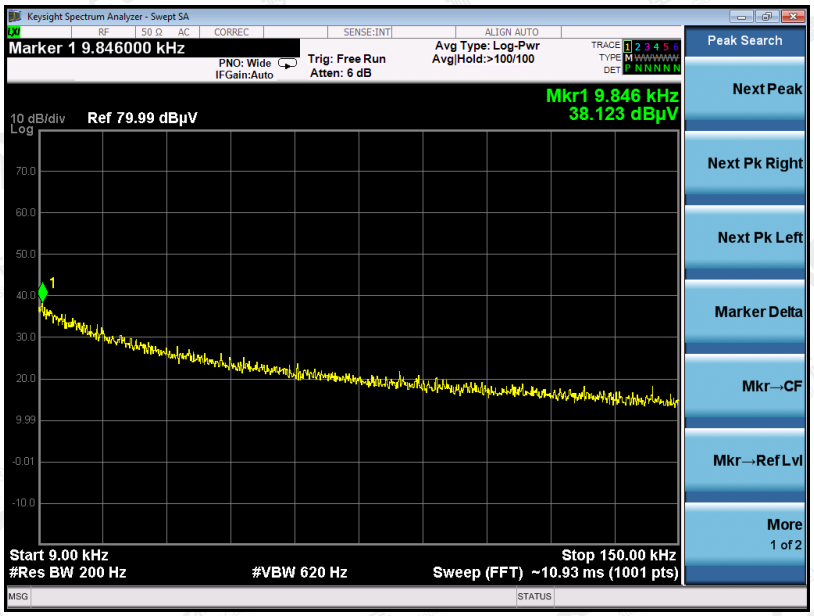
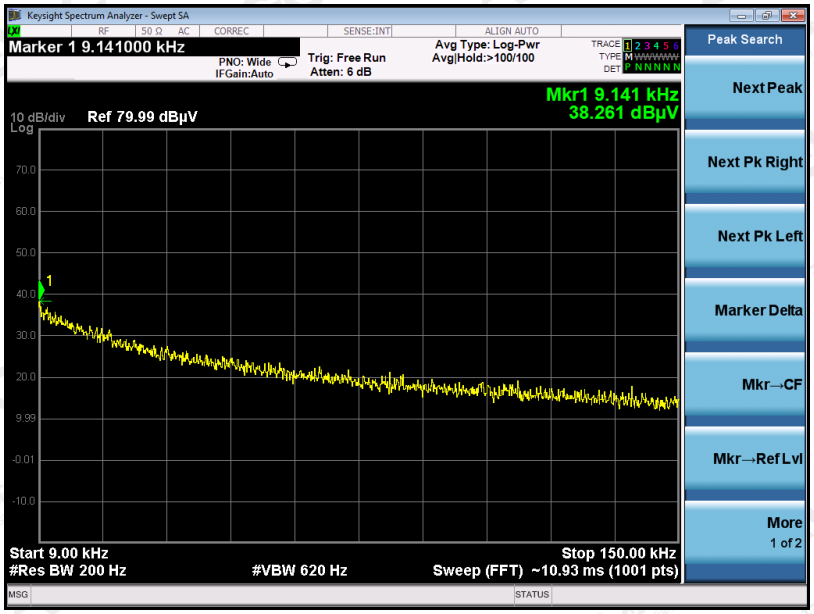
9kHz-150kHz Face



9kHz-150kHz Side



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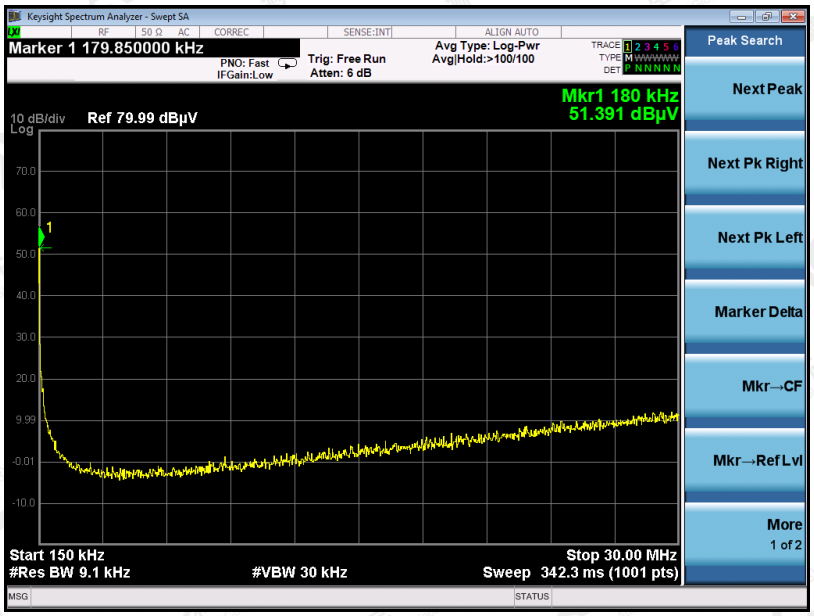
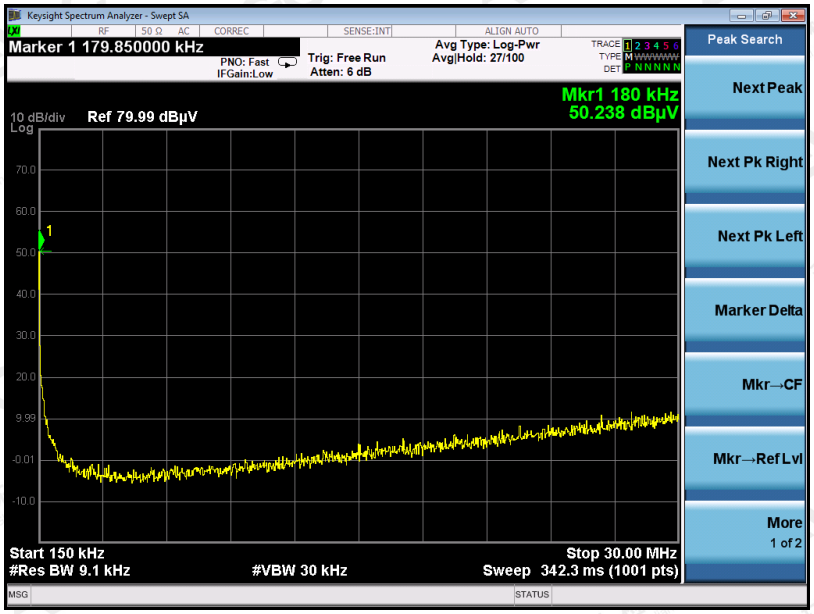
150kHz-30MHz Face



150kHz-30MHz Side



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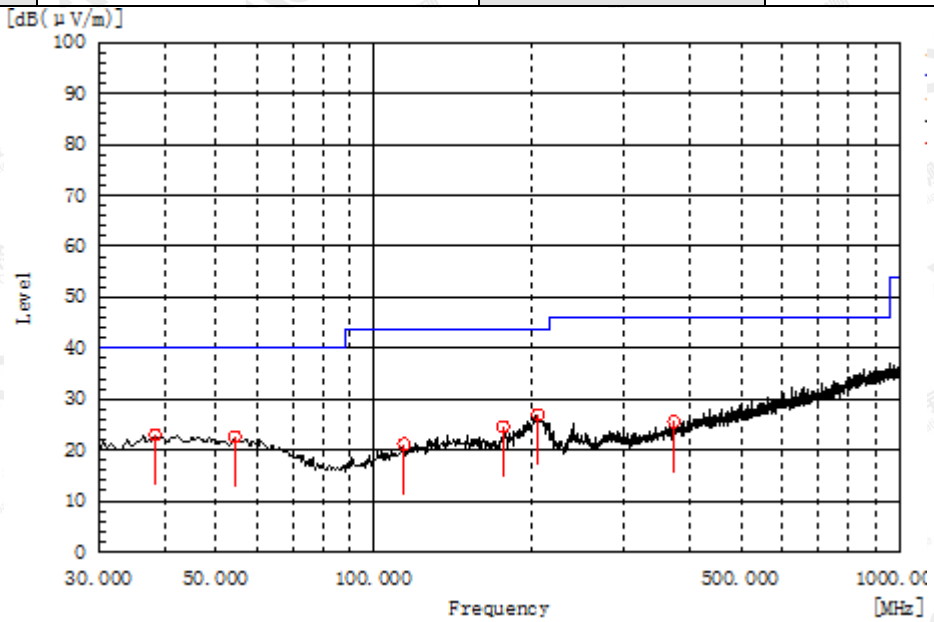
RADIATED EMISSION 30MHz- 1GHZ

EUT：	Wireless Charger	Model Name. ：	180001
Temperature：	20 ℃	Relative Humidtity:	48%
Pressure：	1010 hPa	Test Voltage ：	Normal
Test Mode ：	Mode 1	Polarization :	Horizontal



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
38.245	H	5.8	17.2	23.0	40.0	17.0	Pass	100.0	219.5
205.085	H	13.4	13.6	27.0	43.5	16.5	Pass	100.0	320.9
54.250	H	5.8	16.8	22.6	40.0	17.4	Pass	100.0	286.1
113.905	H	6.3	14.9	21.2	43.5	22.3	Pass	100.0	233.1
175.985	H	9.4	15.1	24.5	43.5	19.0	Pass	100.0	320.9
372.410	H	5.8	19.8	25.6	46.0	20.4	Pass	100.0	245.8

RESULT: PASS

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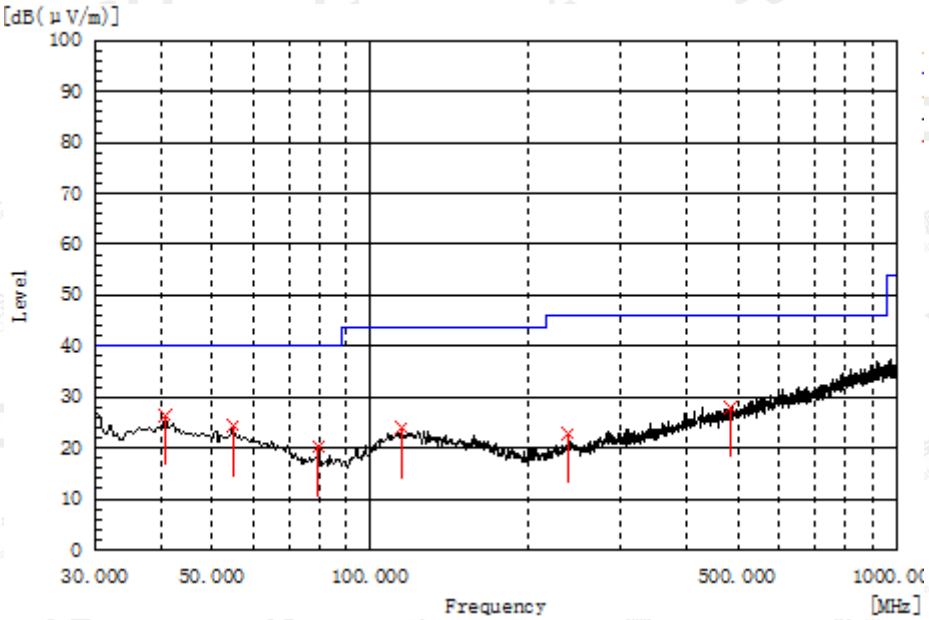
EUT：	Wireless Charger	Model Name. ：	180001
Temperature：	20 ℃	Relative Humidtity：	48%
Pressure：	1010 hPa	Test Voltage ：	Normal
Test Mode ：	Mode 1	Polarization :	Vertical



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
114.390	V	9.0	14.9	23.9	43.5	19.6	Pass	100.0	229.9
40.670	V	9.1	17.4	26.5	40.0	13.5	Pass	100.0	39.0
237.095	V	6.8	16.1	22.9	46.0	23.1	Pass	100.0	211.5
483.960	V	5.5	22.6	28.1	46.0	17.9	Pass	100.0	101.5
54.735	V	7.6	16.7	24.3	40.0	15.7	Pass	100.0	149.9
79.470	V	7.9	12.3	20.2	40.0	19.8	Pass	100.0	238.9

RESULT: PASS

Note:

Factor=Antenna Factor + Cable loss, Margin= Limit-level.

The “Factor” value can be calculated automatically by software of measurement system.

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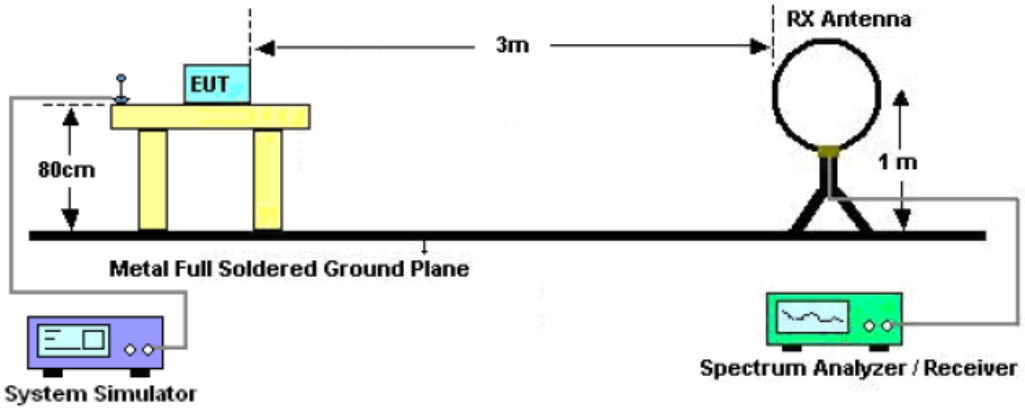
8. 20DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2, Set the EUT Work on operation frequency.
3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a channel
   The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
4. Set SPA Trace 1 Max hold, then View.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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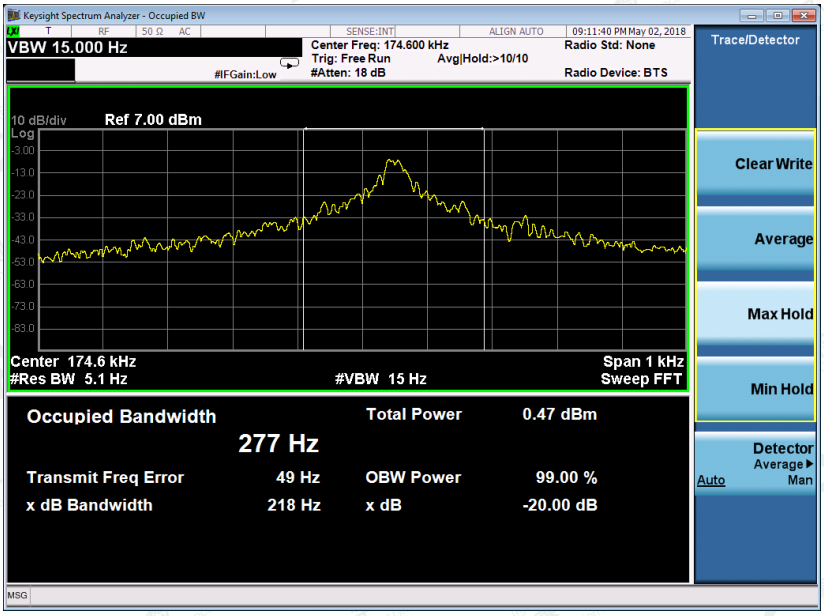
8.3. MEASUREMENT RESULTS

TEST ITEM	20DB BANDWIDTH
TEST MODULATION	FSK

Operate Frequency(KHz)	20dB bandwidth(Hz)	**Criteria**
174.6	218	PASS

TEST PLOT OF BANDWIDTH



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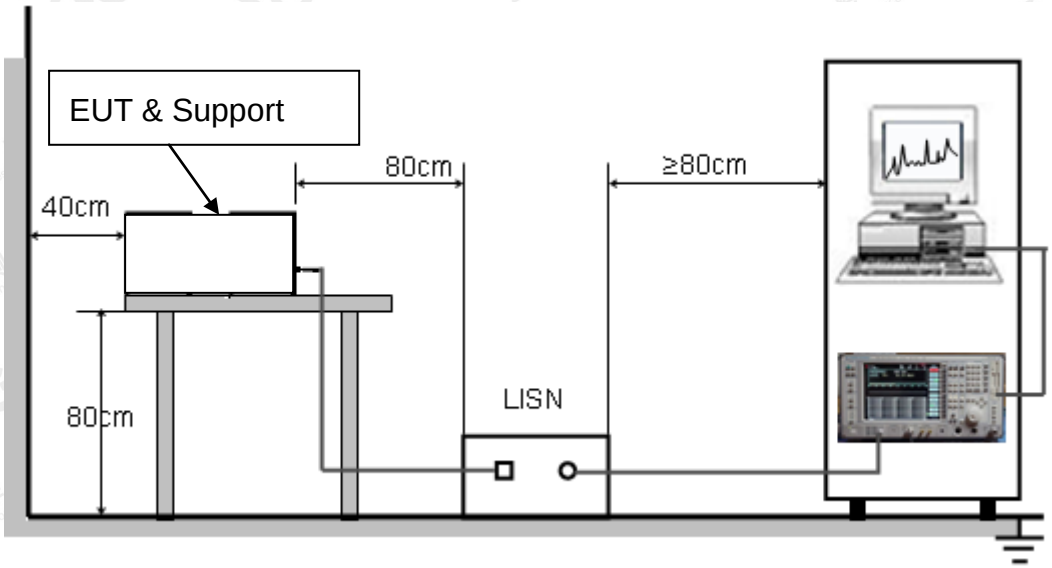
9. FCC LINE CONDUCTED EMISSION TEST

9.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:
1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

9.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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9.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When 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 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
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. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received charging voltage by adapter which received 120V/60Hzpower by a LISN..
6. The 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.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

9.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

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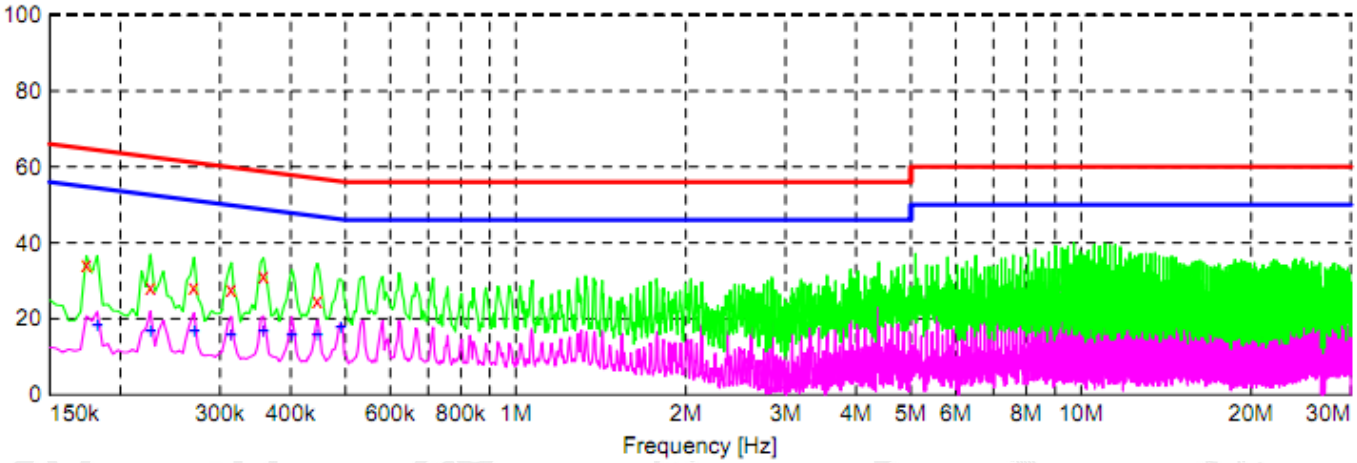
9.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L



Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.174000	34.10	10.0	65	30.7	QP	L1	FLO
0.226000	28.20	10.1	63	34.4	QP	L1	FLO
0.270000	28.30	10.1	61	32.8	QP	L1	FLO
0.314000	27.80	10.1	60	32.1	QP	L1	FLO
0.358000	31.20	10.1	59	27.6	QP	L1	FLO
0.446000	24.70	10.1	57	32.2	QP	L1	FLO

Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.182000	18.20	10.0	54	36.2	AV	L1	FLO
0.226000	16.50	10.1	53	36.1	AV	L1	FLO
0.270000	16.50	10.1	51	34.6	AV	L1	FLO
0.314000	15.80	10.1	50	34.1	AV	L1	FLO
0.358000	16.70	10.1	49	32.1	AV	L1	FLO
0.402000	15.60	10.1	48	32.2	AV	L1	FLO
0.446000	15.70	10.1	47	31.2	AV	L1	FLO
0.490000	17.50	10.1	46	28.7	AV	L1	FLO

RESULT: PASS

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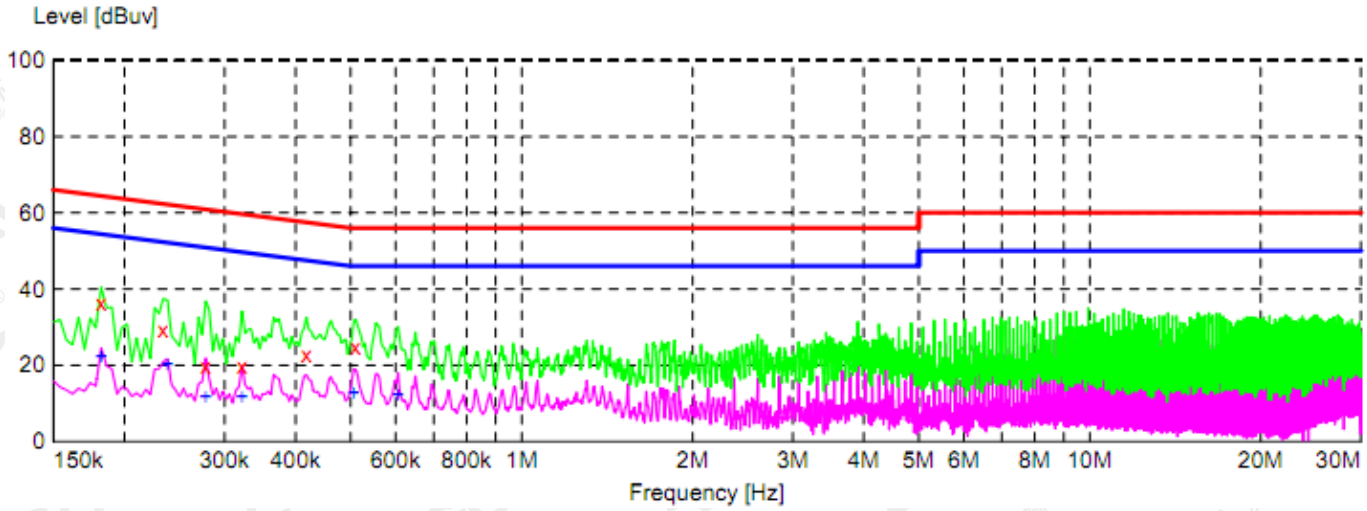
LINE CONDUCTED EMISSION TEST-N



Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.182000	36.30	10.0	64	28.1	QP	N	FLO
0.234000	29.30	10.1	62	33.0	QP	N	FLO
0.278000	19.60	10.1	61	41.3	QP	N	FLO
0.322000	19.70	10.1	60	40.0	QP	N	FLO
0.418000	22.80	10.1	58	34.7	QP	N	FLO
0.510000	24.90	10.1	56	31.1	QP	N	FLO

Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.182000	22.30	10.0	54	32.1	AV	N	FLO
0.238000	20.00	10.1	52	32.2	AV	N	FLO
0.278000	11.70	10.1	51	39.2	AV	N	FLO
0.322000	11.70	10.1	50	38.0	AV	N	FLO
0.506000	12.50	10.1	46	33.5	AV	N	FLO
0.606000	12.40	10.1	46	33.6	AV	N	FLO

RESULT: PASS

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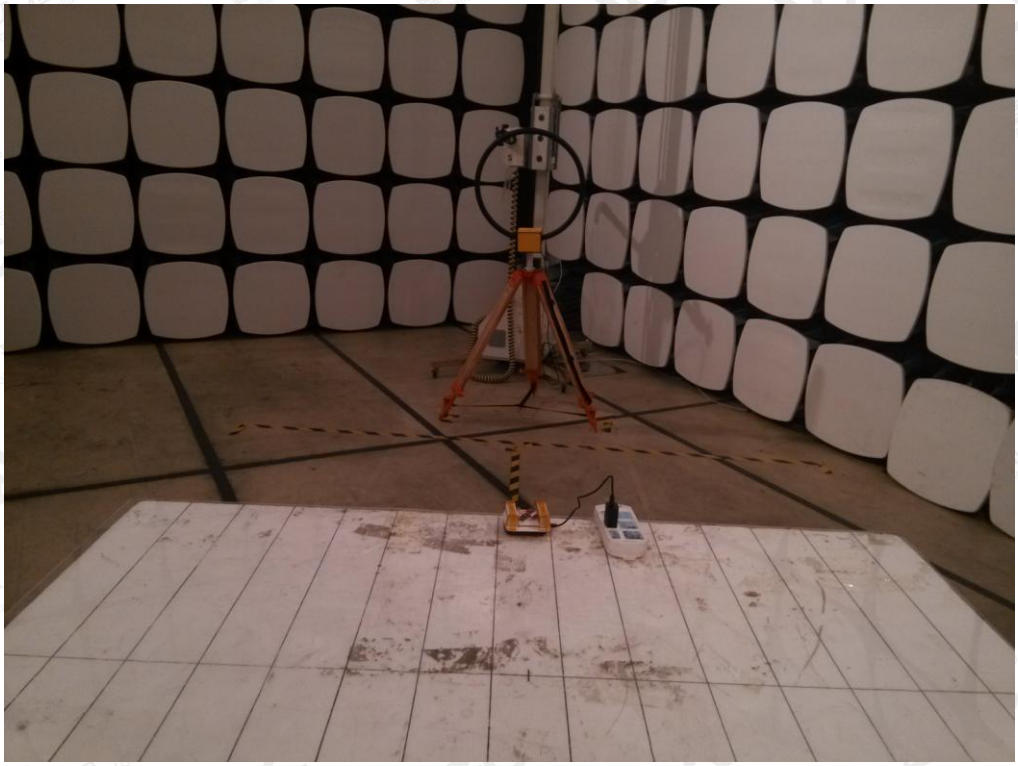
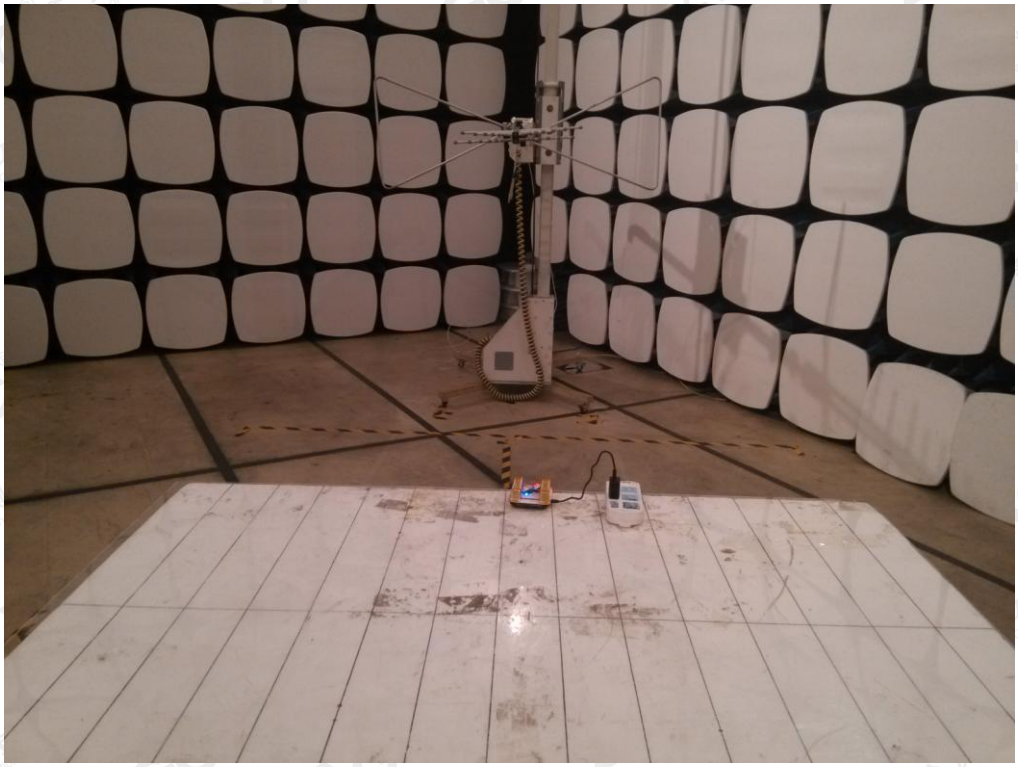
APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ





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FCC LINE CONDUCTED EMISSION TEST SETUP

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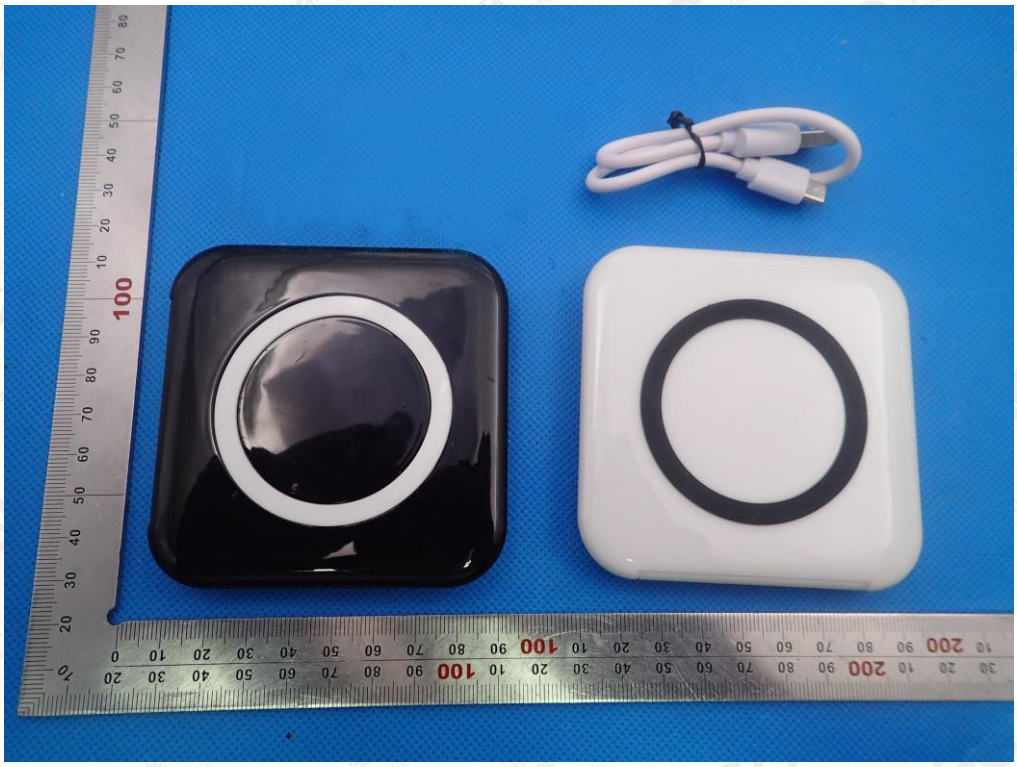
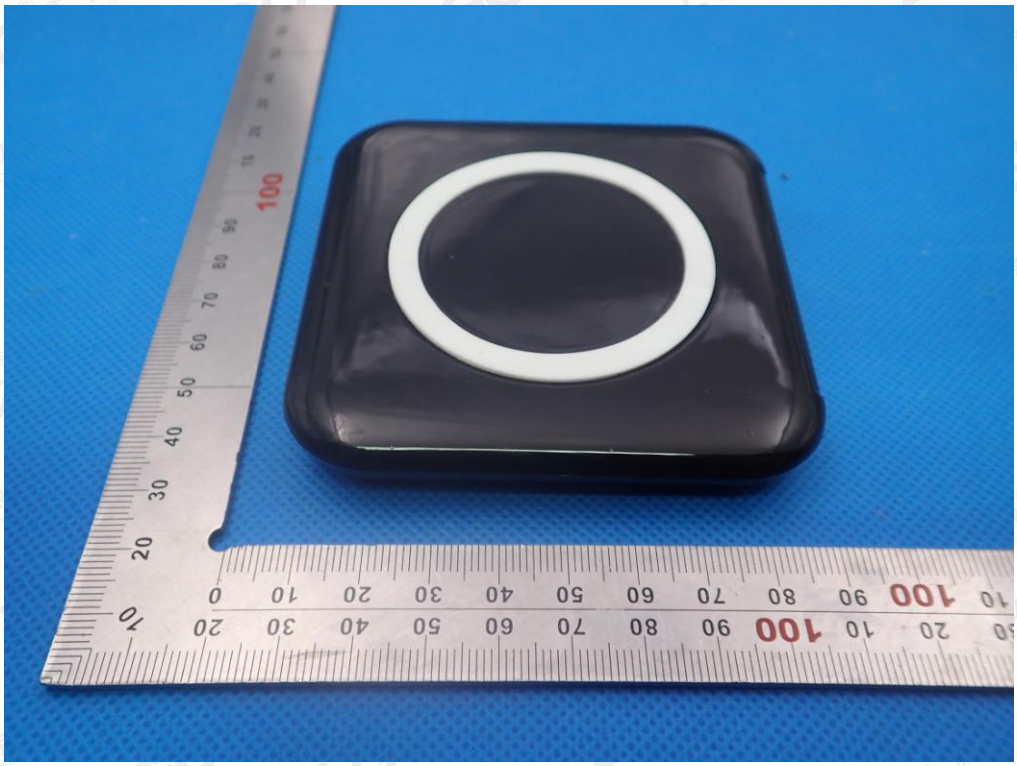
APPENDIX B: PHOTOGRAPHS OF EUT

ALL VIEW OF EUT



TOP VIEW OF EUT



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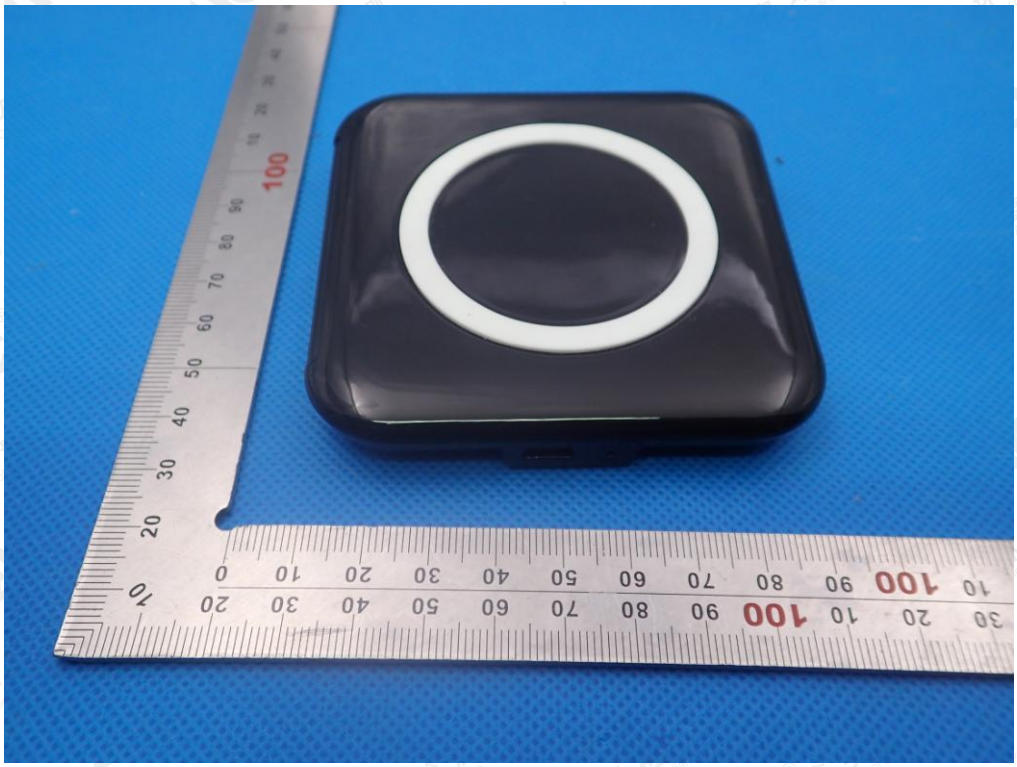
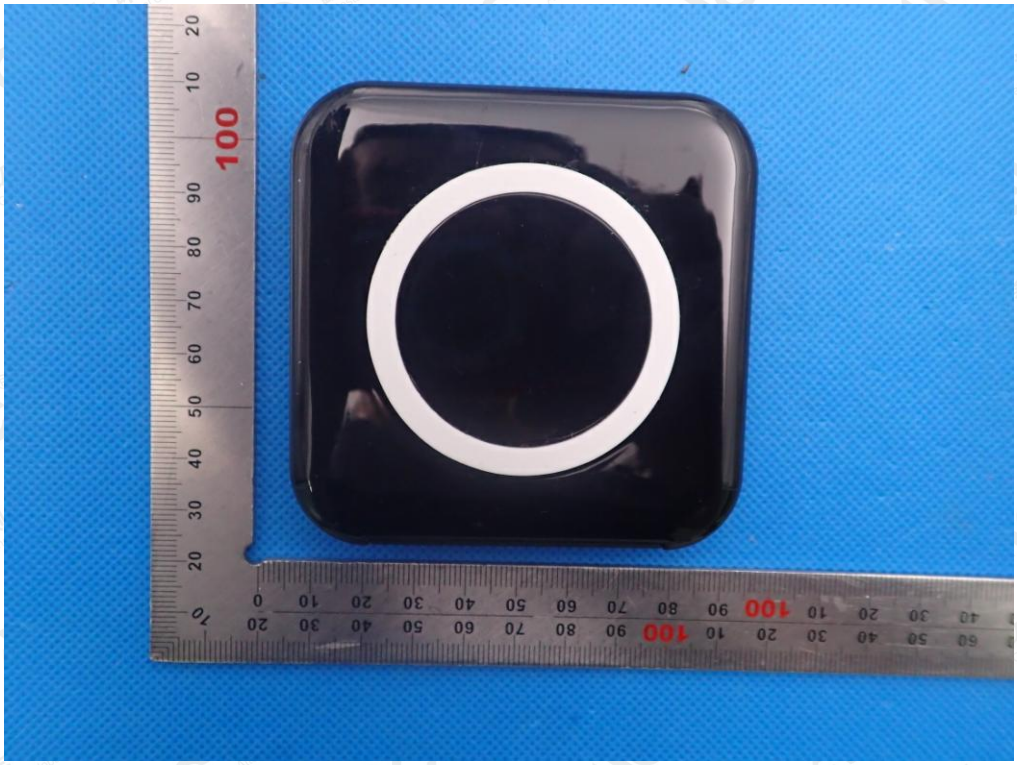
BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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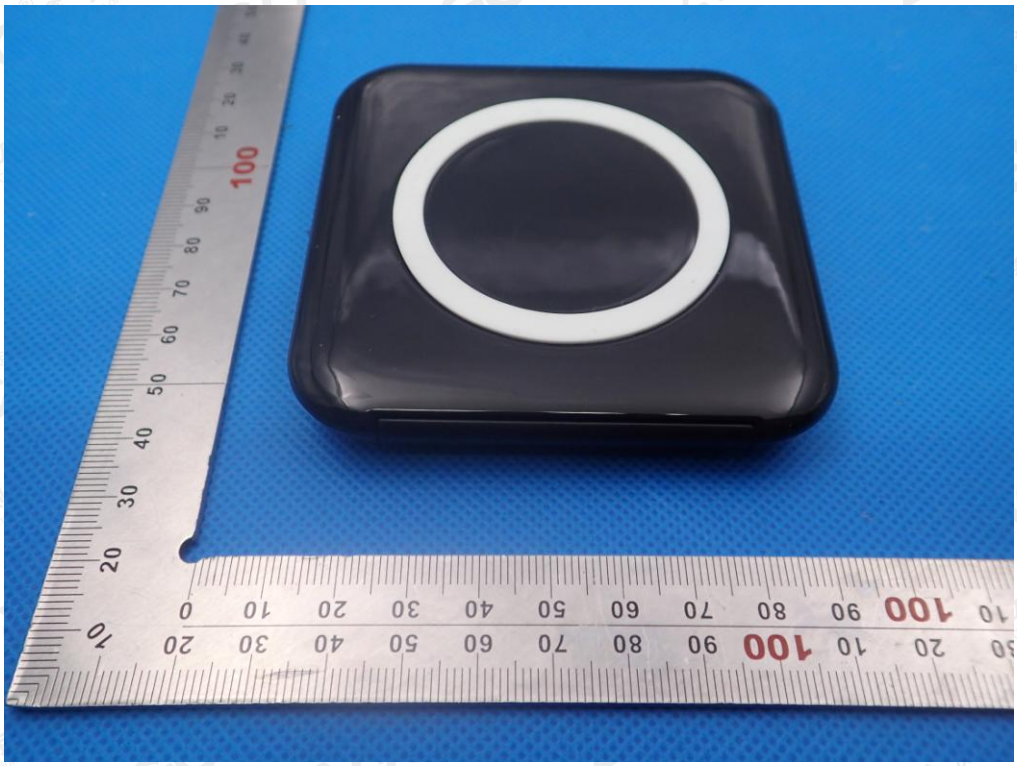
BACK VIEW OF EUT

LEFT VIEW OF EUT



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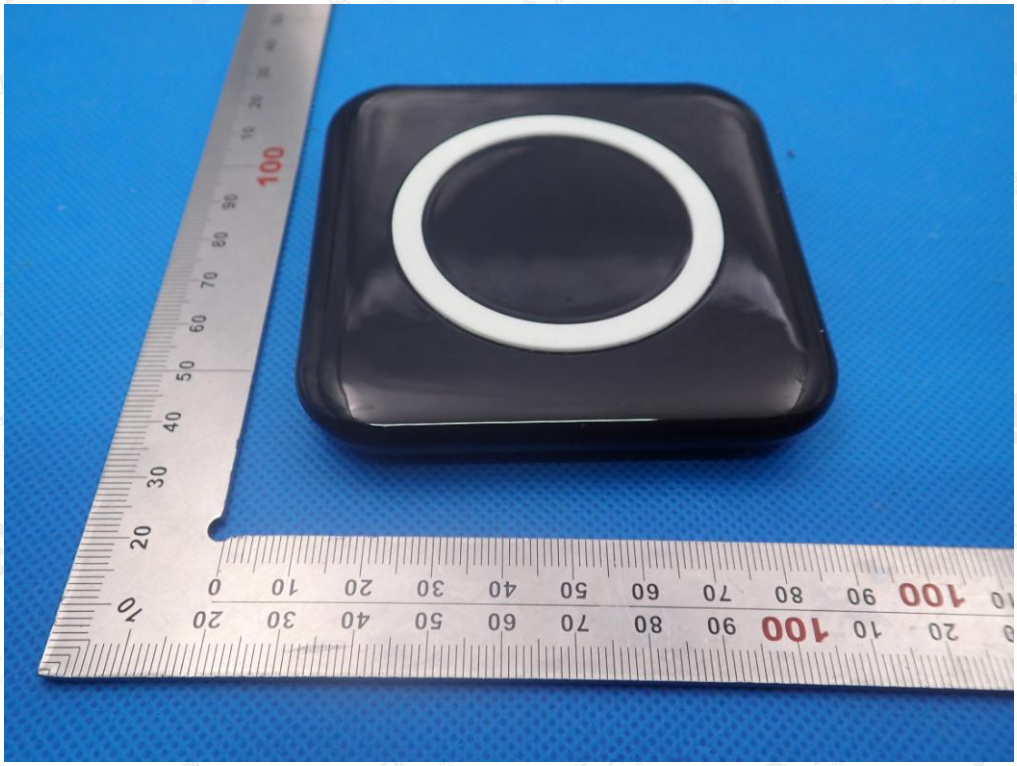
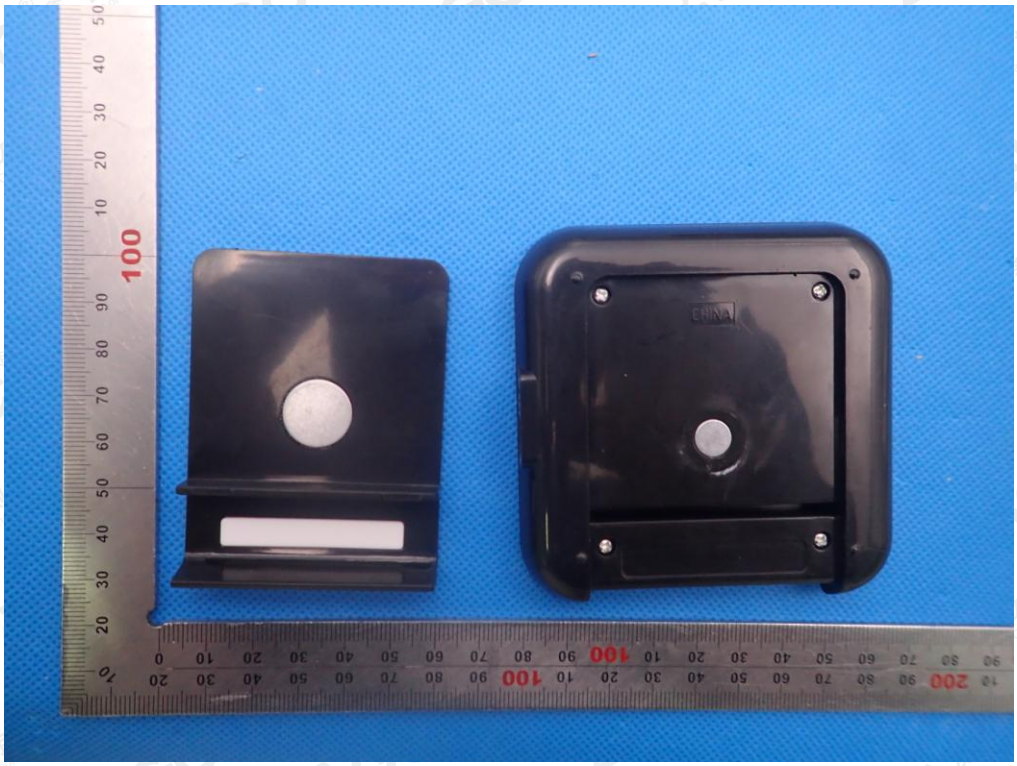
RIGHT VIEW OF EUT



OPEN VIEW-1 OF EUT



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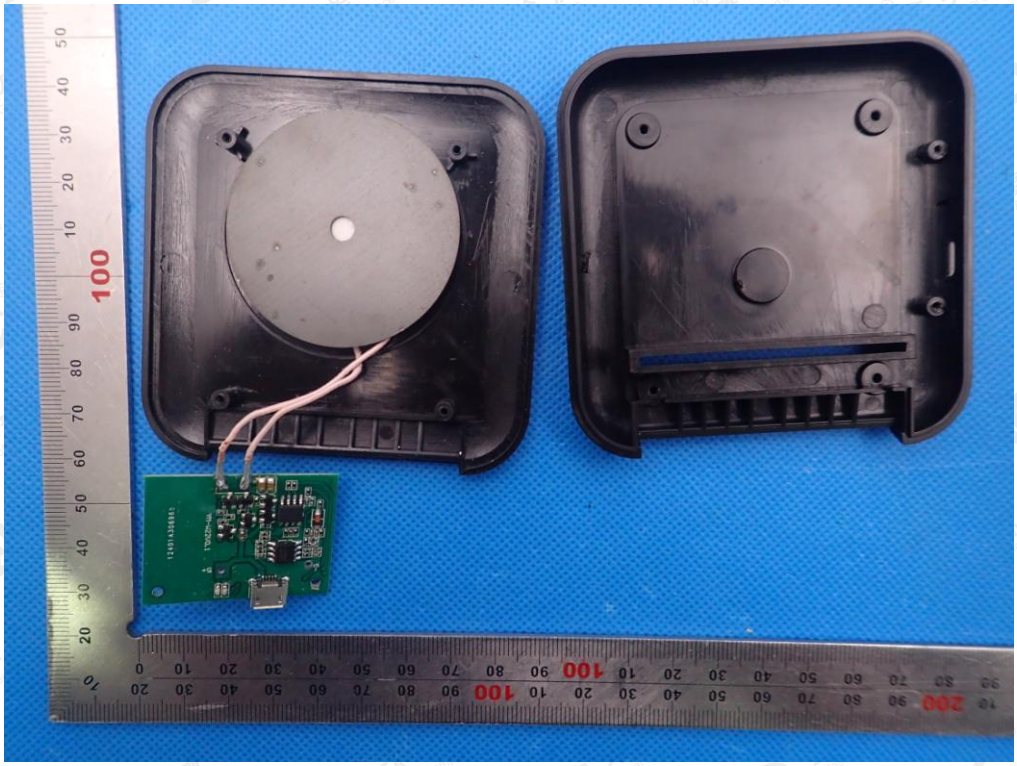
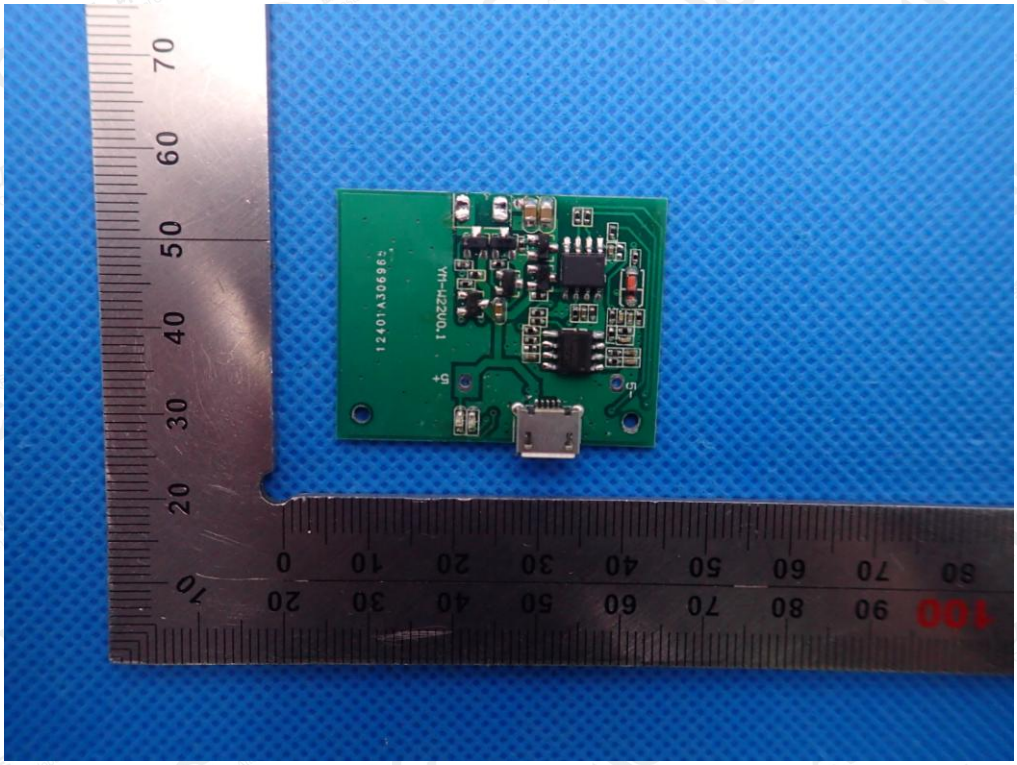
OPEN VIEW-2 OF EUT



INTERNAL VIEW-1 OF EUT



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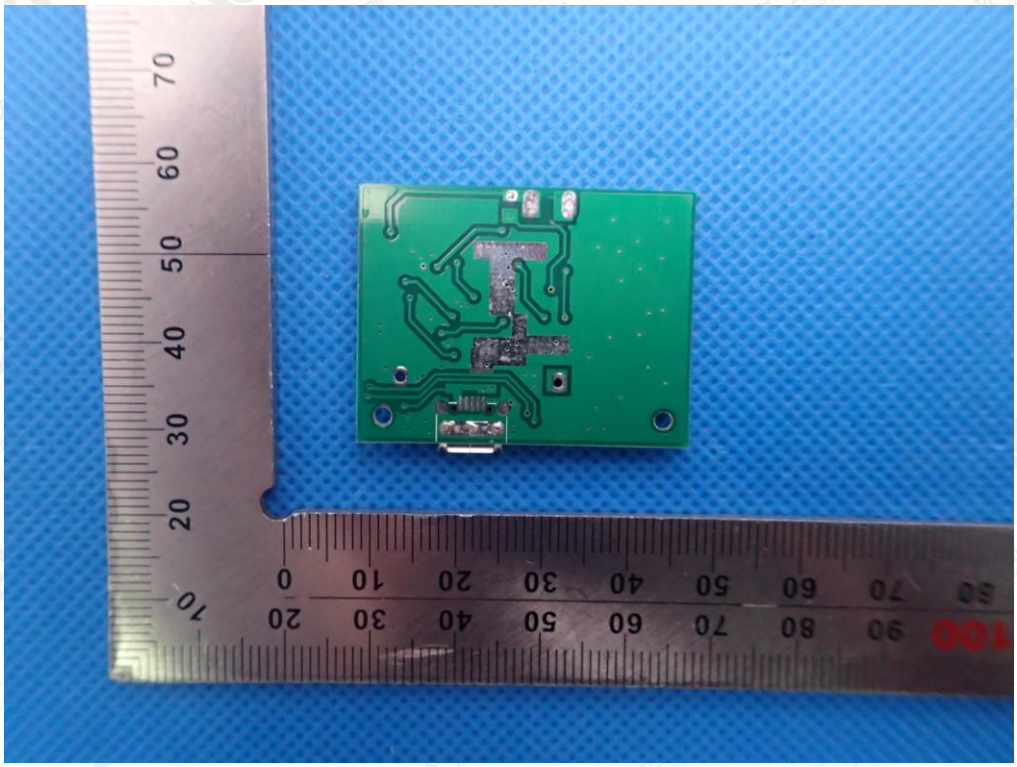
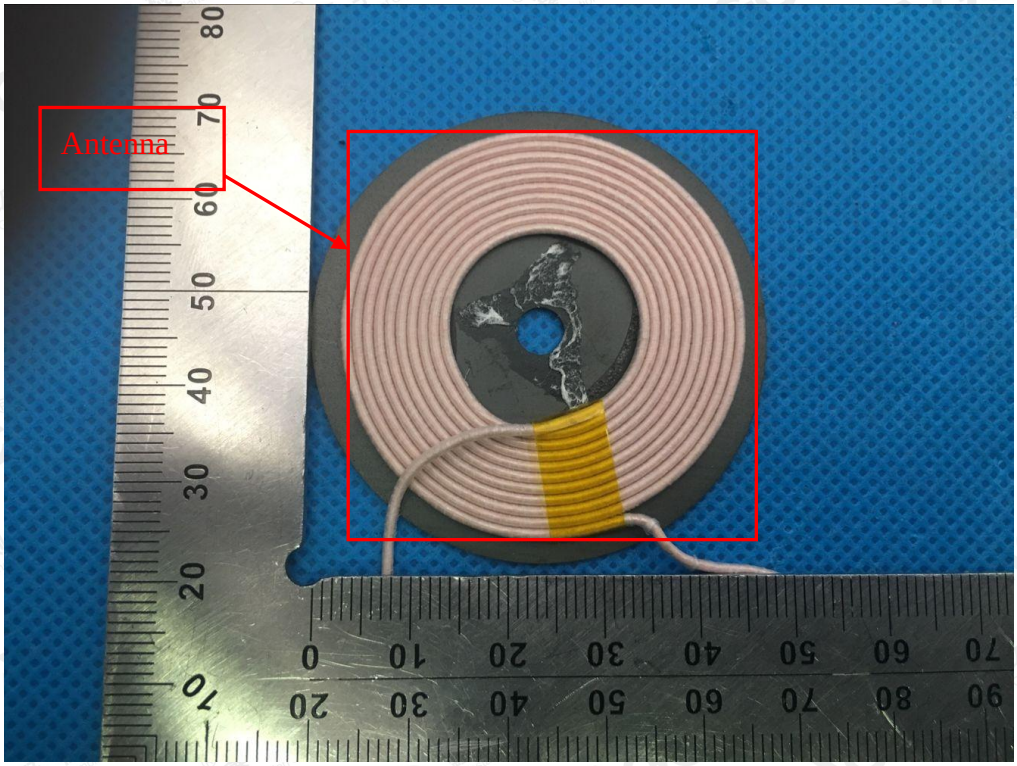
INTERNAL VIEW-2 OF EUT



INTERNAL VIEW-3 OF EUT



----END OF REPORT---

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