FCC Test Report

Report No.: AGC03721180402FE03

FCC ID	:	2AP8D-LTD-001
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Wireless Charging
BRAND NAME	:	N/A
MODEL NAME	:	LTD-001
CLIENT	:	Shenzhen Wan Lian Tong Da Technology Co.,LTD
DATE OF ISSUE	:	May 07, 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 07, 2018	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen Wan Lian Tong Da Technology Co., LTD
Address	4th Floor, East of Hongliyuan Building, No. 48 of Meihua Road, Fuyong Street, Bao'an District, Shenzhen, China
Manufacturer	Shenzhen Wan Lian Tong Da Technology Co., LTD
Address	4th Floor, East of Hongliyuan Building, No. 48 of Meihua Road, Fuyong Street, Bao'an District, Shenzhen, China
Product Designation	Wireless Charging
Brand Name	N/A
Test Model	LTD-001
Date of test	Apr. 25, 2018 to May 07, 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 07, 2018

Reviewed by Bart Xie

Bart Xie(Xie Xiaobin)) May 07, 2018

Approved By Forrest Lei

Forrest Lei(Lei Yonggang) May 07, 2018

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	176.1KHz
Maximum field strength	55.72dBuV/m(Peak)@3m
Number of channels	1
Antenna Designation	Integrated Antenna (Met 15.203 Antenna requirement)
Hardware Version	END-02
Software Version	V1.0
Power Supply	Input: 5V/2A, 9V/1.67A Output: 5V/1A, 7.5V/1A, 9V/1.2A

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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 at 9V 1.2A(Full load)
2	Wireless charging Mode at 9V 1.2A (half load)
3	Wireless charging Mode at 9V 1.2A (Null load)
4	Wireless charging Mode at 7.5V 1A(Full load)
5	Wireless charging Mode at 7.5V 1A (half load)
6	Wireless charging Mode at 7.5V 1A (Null load)
7	Wireless charging Mode at 5V 1A (Full load)
8	Wireless charging Mode at 5V 1A (half load)
9	Wireless charging Mode at 5V 1A (Null load)

Note:
1. The mode 1 was the worst case and only the data of the worst case record in this report.
2. Output 9V/1.2A is the worst case of the three voltages under test.

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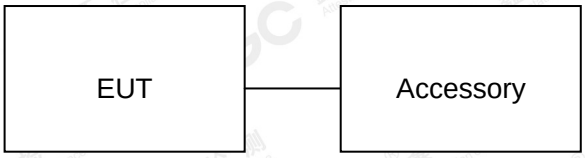
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure :



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Wireless Charging	LTD-001	2AP8D-LTD-001	EUT
2	Adapter	HW05010002	100-240V 50/60Hz 0.5A DC5V 1A	Support
3	Wireless electronic Load	--	Maximum power 12W	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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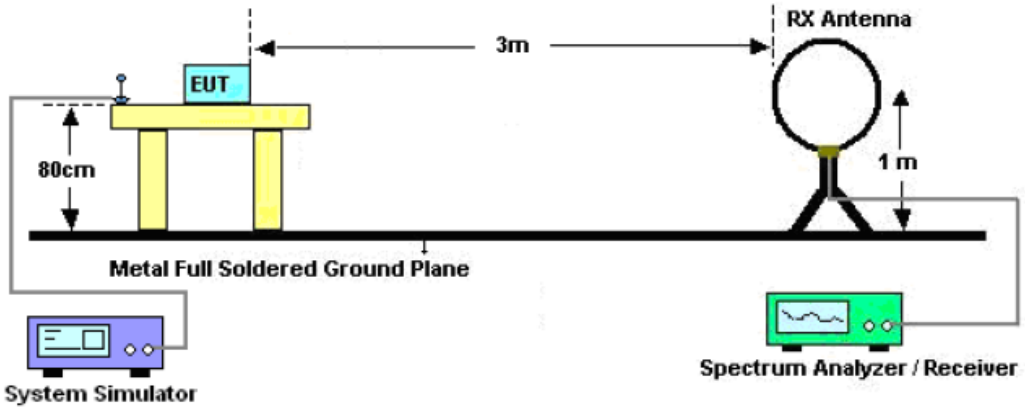
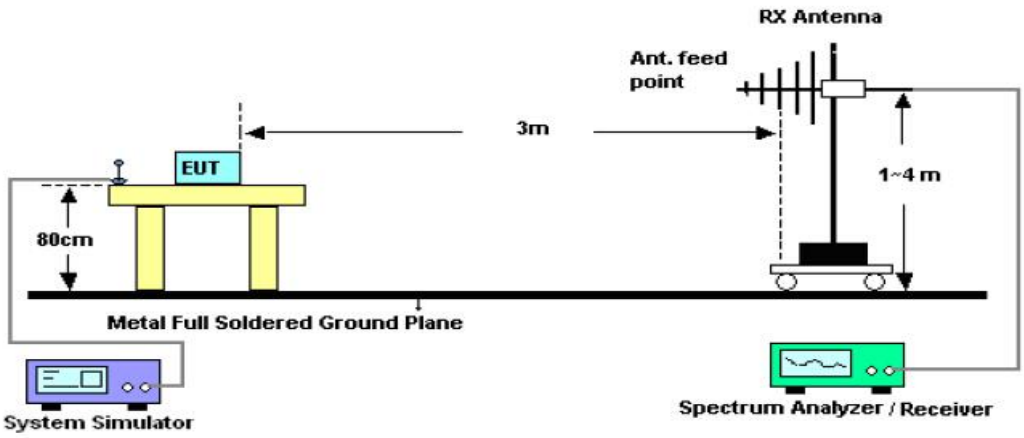
7.3. TEST SETUP

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
0.1761	Face	45.32	10.4	55.72	102.69	46.97	Pass
0.1761	Side	42.74	10.4	53.14	102.69	49.55	Pass

Note: No other emissions found between lowest internal used/generated frequencies to 30MHz. The peak level of the emission is less than the average limit, so the average level shall be less than the limit without test.

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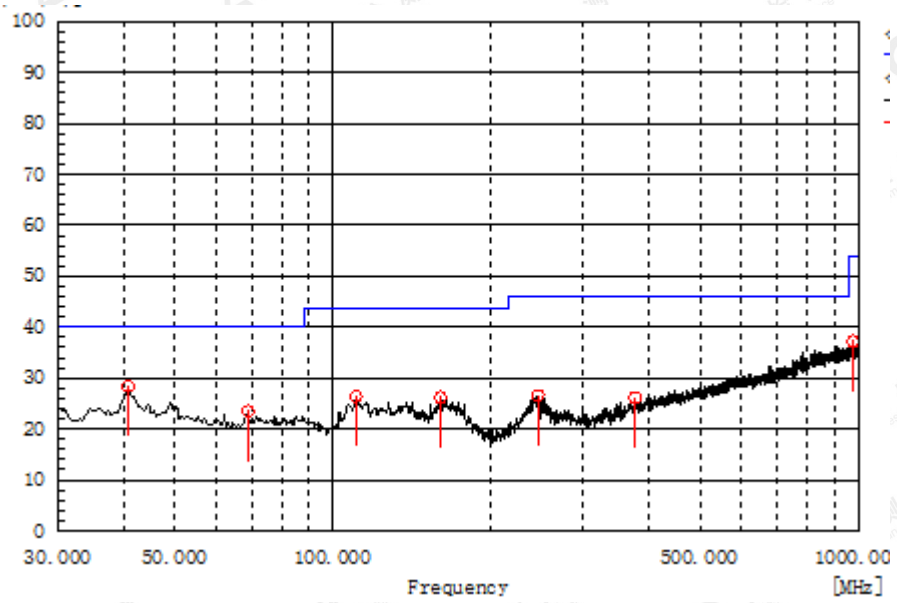
RADIATED EMISSION 30MHz- 1GHZ

EUT：	Wireless Charging	Model Name. ：	LTD-001
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
40.670	H	11.0	17.4	28.4	40.0	11.6	Pass	100.0	336.3
110.510	H	11.8	14.6	26.4	43.5	17.1	Pass	100.0	337.4
245.340	H	10.4	16.2	26.6	46.0	19.4	Pass	100.0	304.5
976.720	H	6.3	30.9	37.2	54.0	16.8	Pass	100.0	264.7
375.805	H	6.3	19.9	26.2	46.0	19.8	Pass	100.0	240.7
68.800	H	8.7	14.8	23.5	40.0	16.5	Pass	100.0	42.1
159.980	H	9.6	16.6	26.2	43.5	17.3	Pass	100.0	334.1

RESULT: PASS

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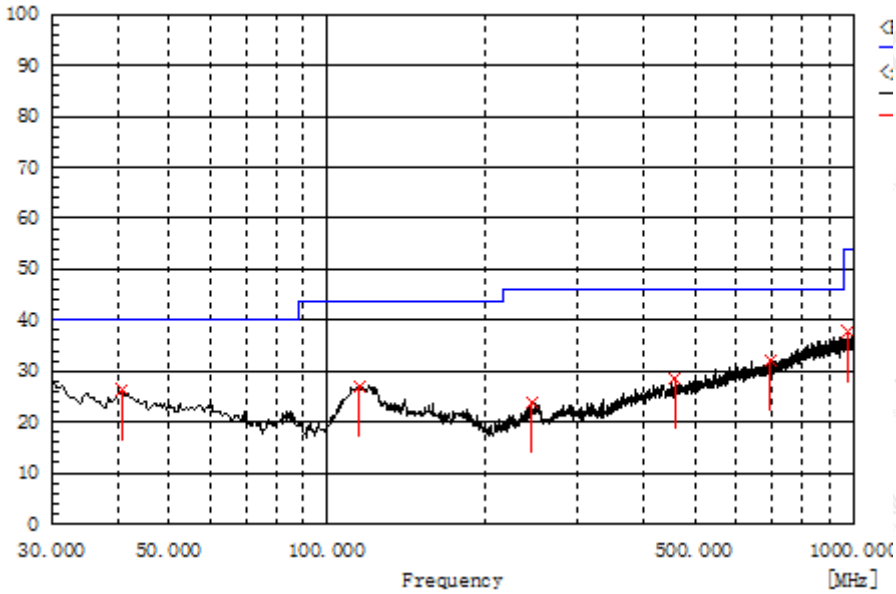
EUT：	Wireless Charging	Model Name. ：	LTD-001
Temperature：	20 ℃	Relative Humidtity：	48%
Pressure：	1010 hPa	Test Voltage ：	Normal
Test Mode ：	Mode 1	Polarization :	Vertical



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
114.875	V	12.1	15.0	27.1	43.5	16.4	Pass	100.0	148.7
978.660	V	6.8	30.9	37.7	54.0	16.3	Pass	100.0	301.5
40.670	V	8.9	17.4	26.3	40.0	13.7	Pass	100.0	38.0
244.370	V	7.7	16.2	23.9	46.0	22.1	Pass	100.0	272.2
457.285	V	6.3	22.2	28.5	46.0	17.5	Pass	100.0	345.8
695.905	V	5.8	26.3	32.1	46.0	13.9	Pass	100.0	352.1

RESULT: PASS

Note:

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

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

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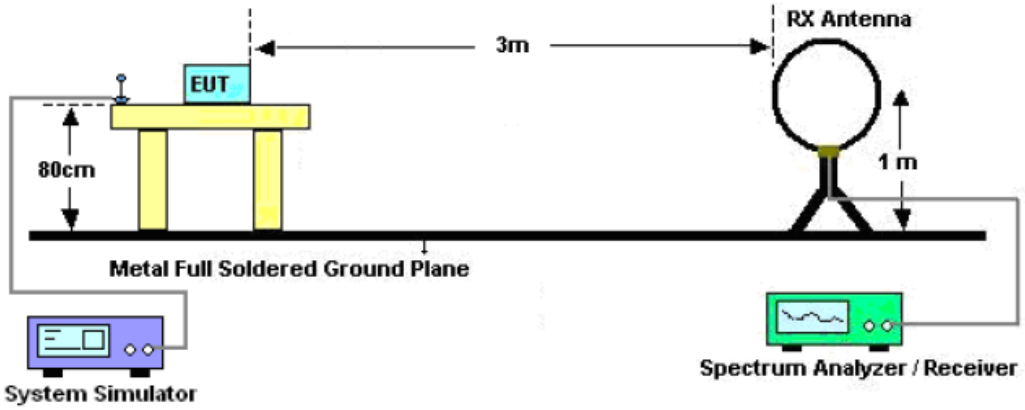
8. 20DB BANDWIDTH

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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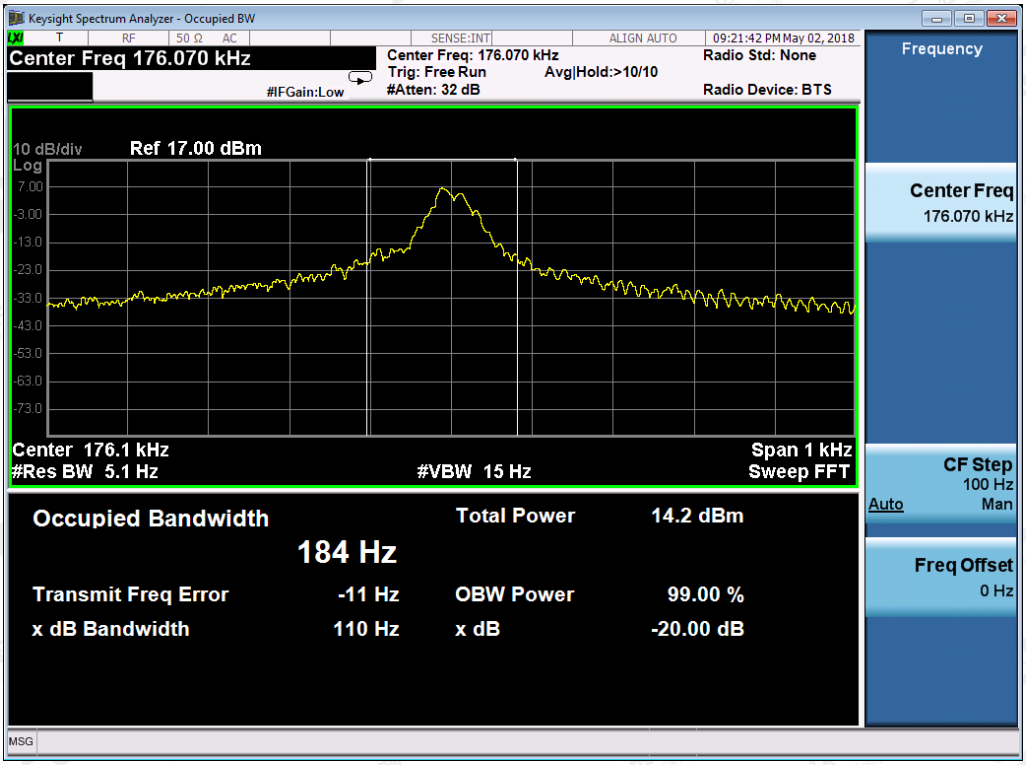
8.3. MEASUREMENT RESULTS

TEST ITEM	20DB BANDWIDTH
TEST MODULATION	FSK

Test Data (Hz)		Criteria
Operate Channel	110	PASS

TEST PLOT OF BANDWIDTH



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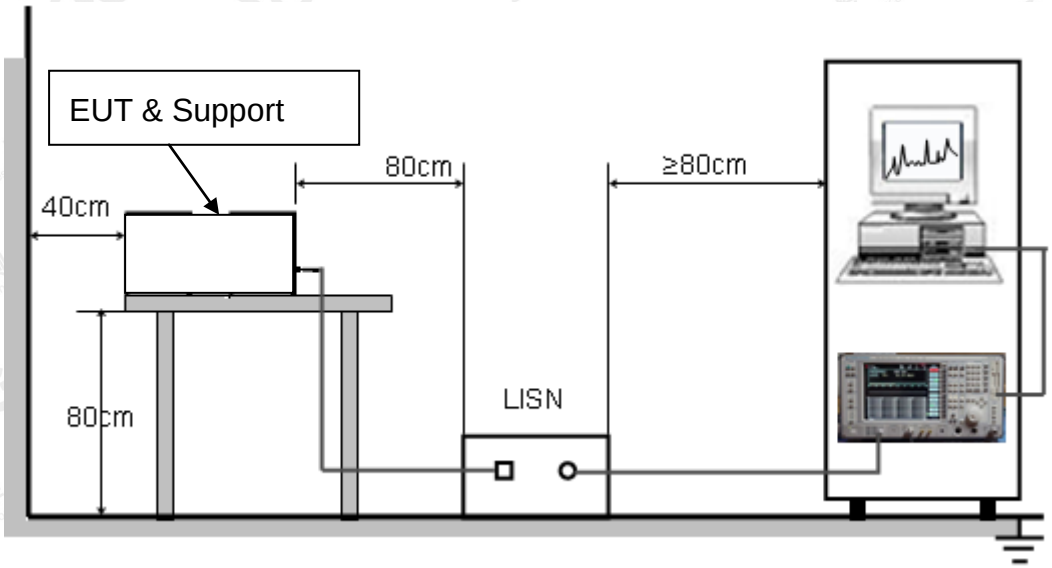
9. FCC LINE CONDUCTED EMISSION TEST

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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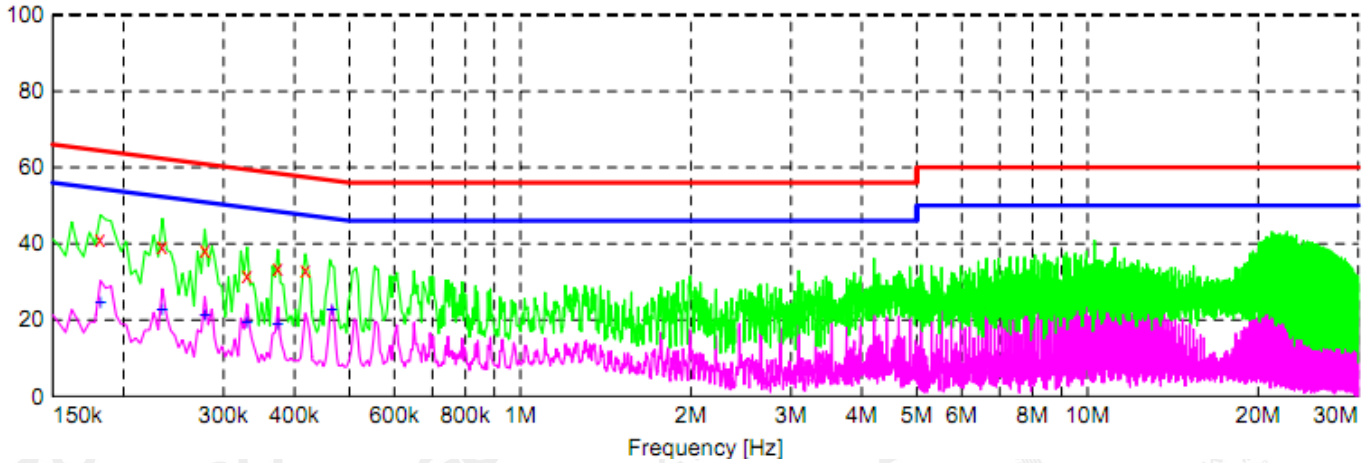
9.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L



Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.182000	41.10	10.0	64	23.3	QP	L1	FLO
0.234000	39.40	10.1	62	22.9	QP	L1	FLO
0.278000	38.30	10.1	61	22.6	QP	L1	FLO
0.330000	31.80	10.1	60	27.7	QP	L1	FLO
0.374000	33.50	10.1	58	24.9	QP	L1	FLO
0.418000	32.90	10.1	58	24.6	QP	L1	FLO

Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.182000	24.60	10.0	54	29.8	AV	L1	FLO
0.234000	22.40	10.1	52	29.9	AV	L1	FLO
0.278000	21.20	10.1	51	29.7	AV	L1	FLO
0.330000	19.40	10.1	50	30.1	AV	L1	FLO
0.374000	18.90	10.1	48	29.5	AV	L1	FLO
0.466000	22.60	10.1	47	24.0	AV	L1	FLO

RESULT: PASS

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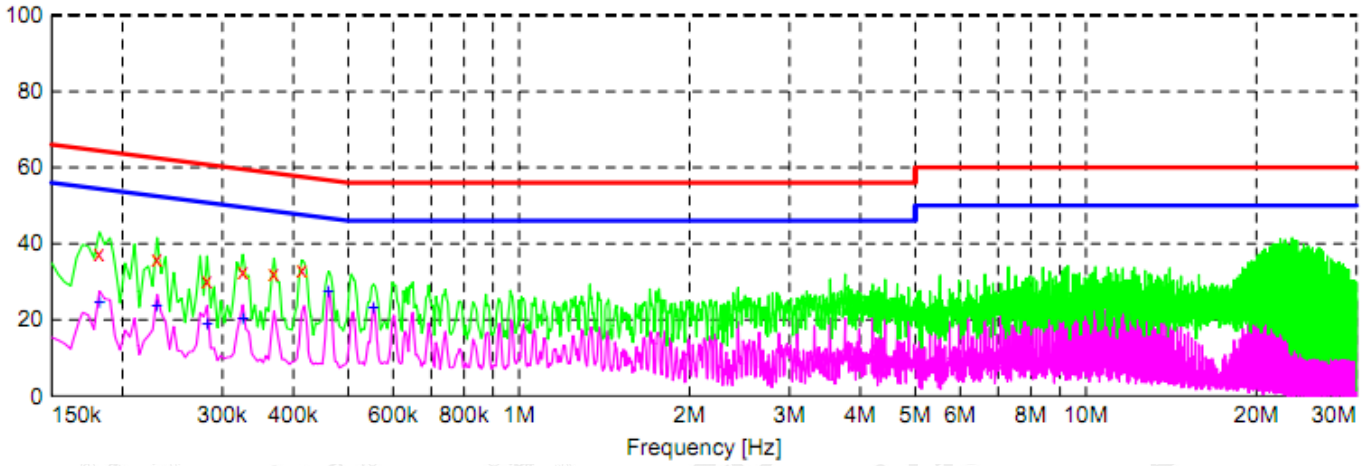
LINE CONDUCTED EMISSION TEST-N



Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.182000	37.20	10.0	64	27.2	QP	N	FLO
0.230000	36.00	10.1	62	26.4	QP	N	FLO
0.282000	30.20	10.1	61	30.6	QP	N	FLO
0.326000	32.60	10.1	60	27.0	QP	N	FLO
0.370000	32.30	10.1	59	26.2	QP	N	FLO
0.414000	33.20	10.1	58	24.4	QP	N	FLO

Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.182000	24.30	10.0	54	30.1	AV	N	FLO
0.230000	23.40	10.1	52	29.0	AV	N	FLO
0.282000	18.60	10.1	51	32.2	AV	N	FLO
0.326000	20.20	10.1	50	29.4	AV	N	FLO
0.462000	27.30	10.1	47	19.4	AV	N	FLO
0.554000	23.20	10.1	46	22.8	AV	N	FLO

RESULT: PASS

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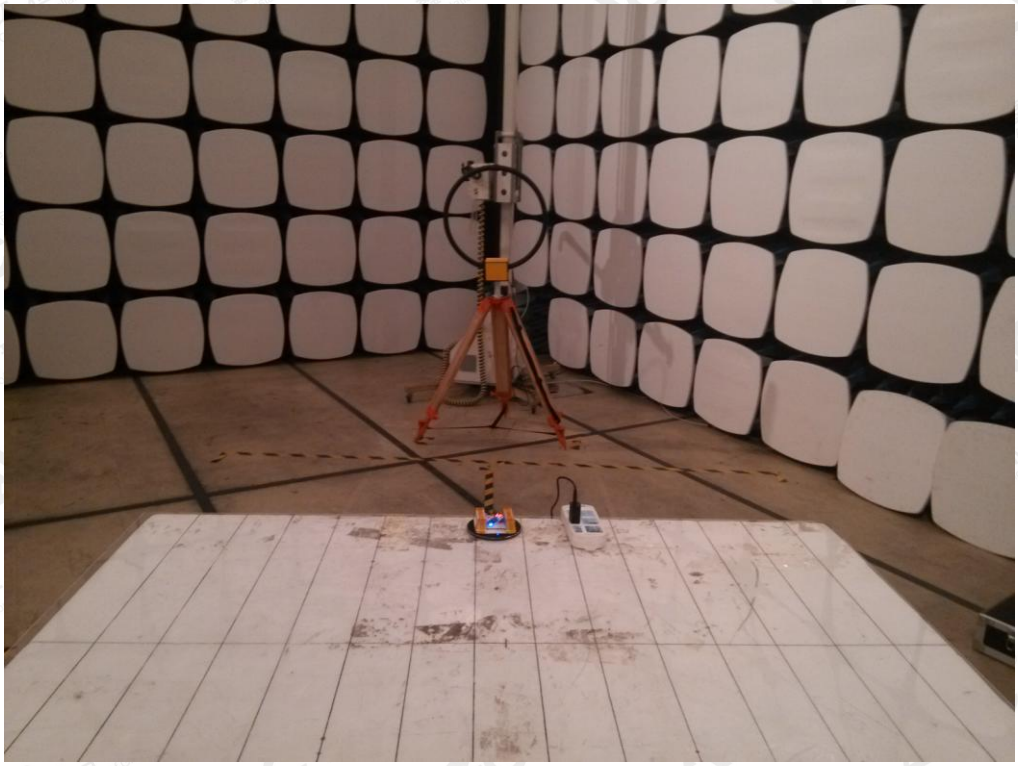
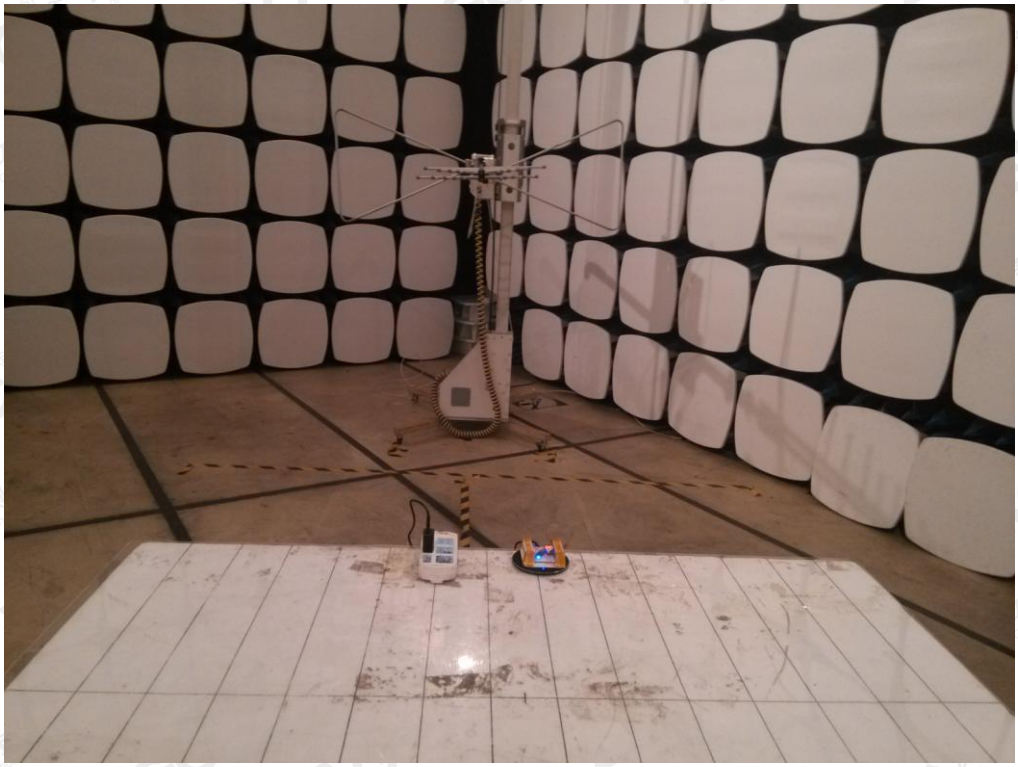
APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ





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FCC LINE CONDUCTED EMISSION TEST SETUP

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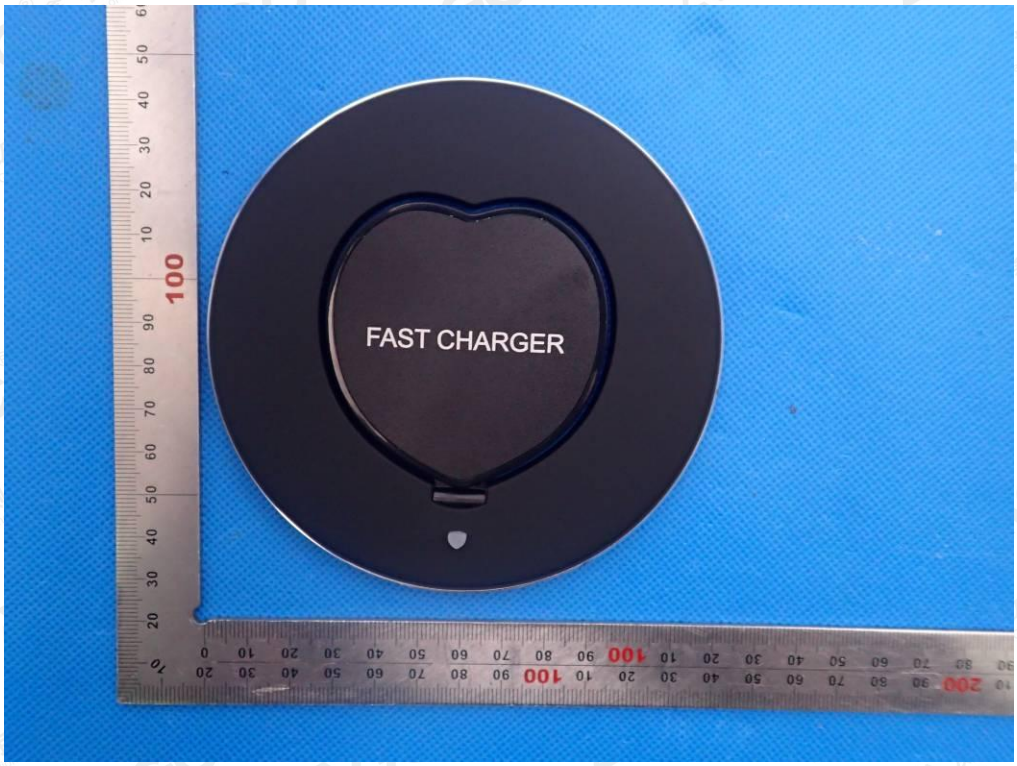
APPENDIX B: PHOTOGRAPHS OF EUT

ALL VIEW OF EUT

TOP VIEW OF EUT



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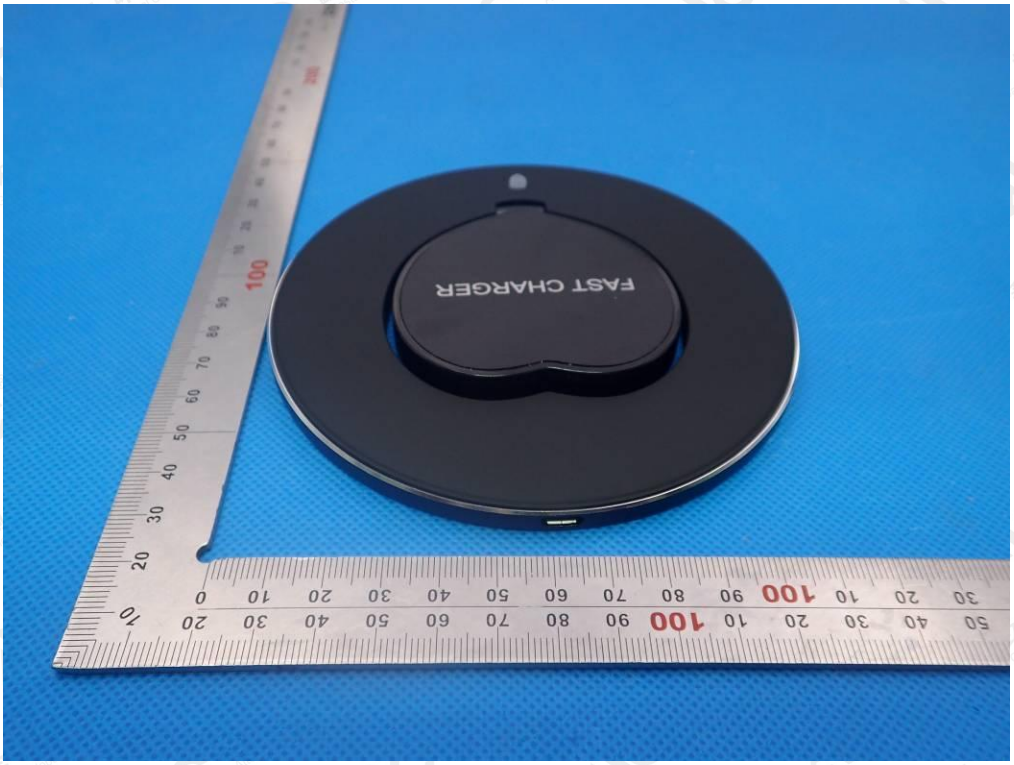
BOTTOM VIEW OF EUT

FRONT VIEW OF EUT



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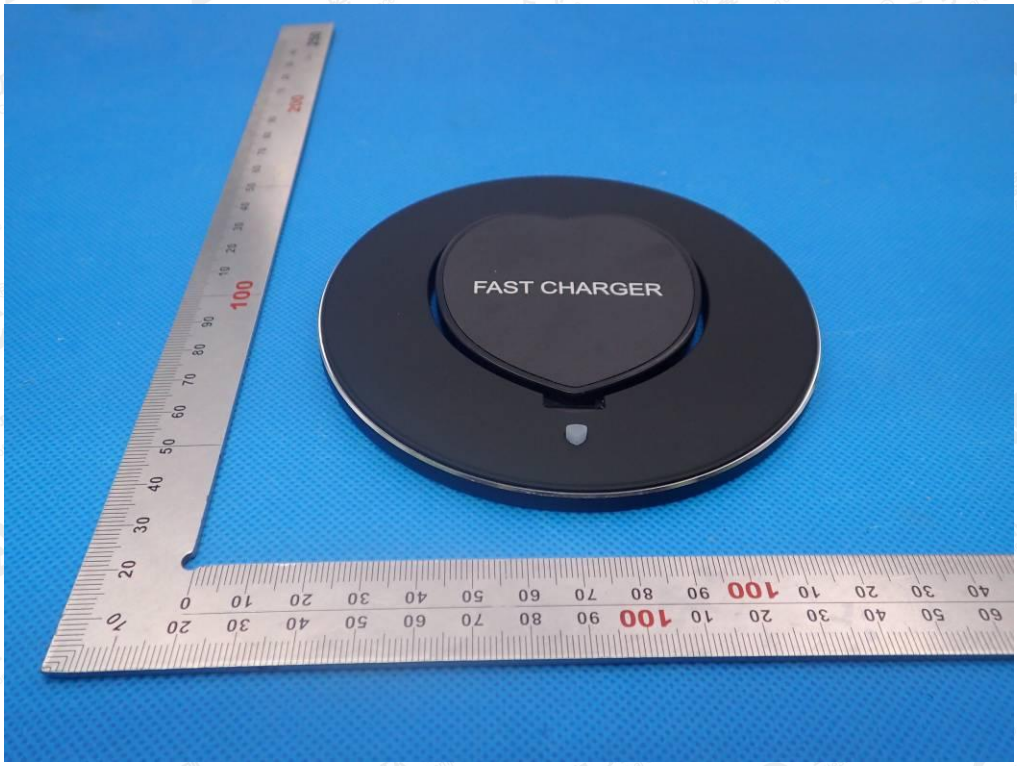
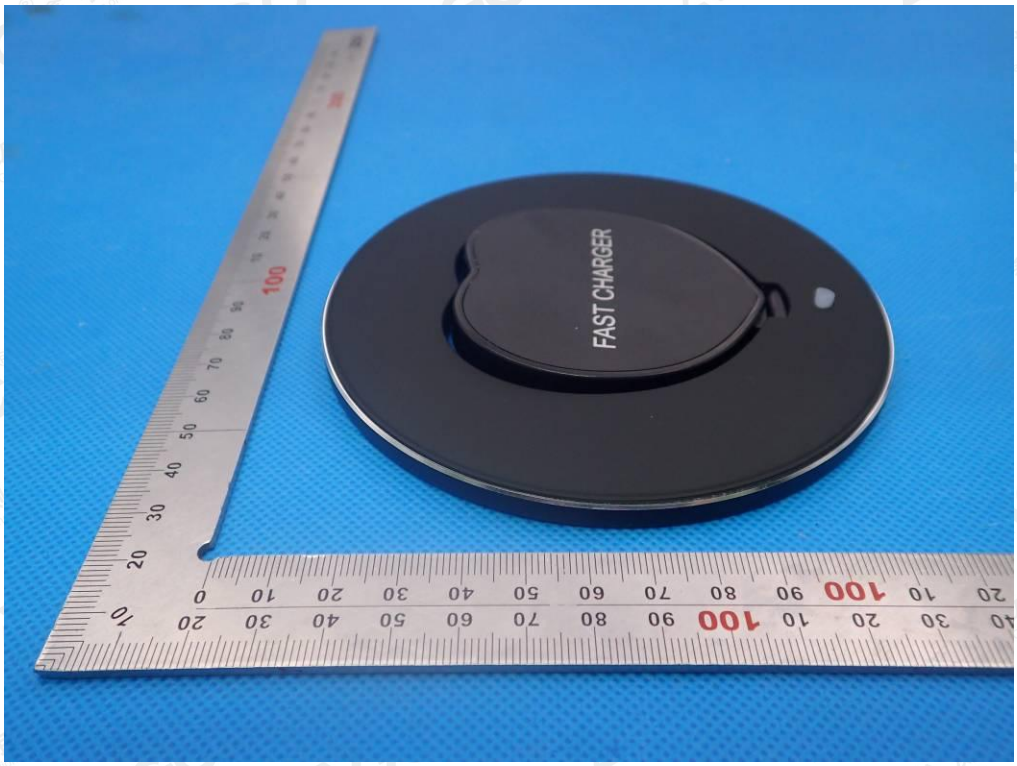
BACK VIEW OF EUT



LEFT VIEW OF EUT



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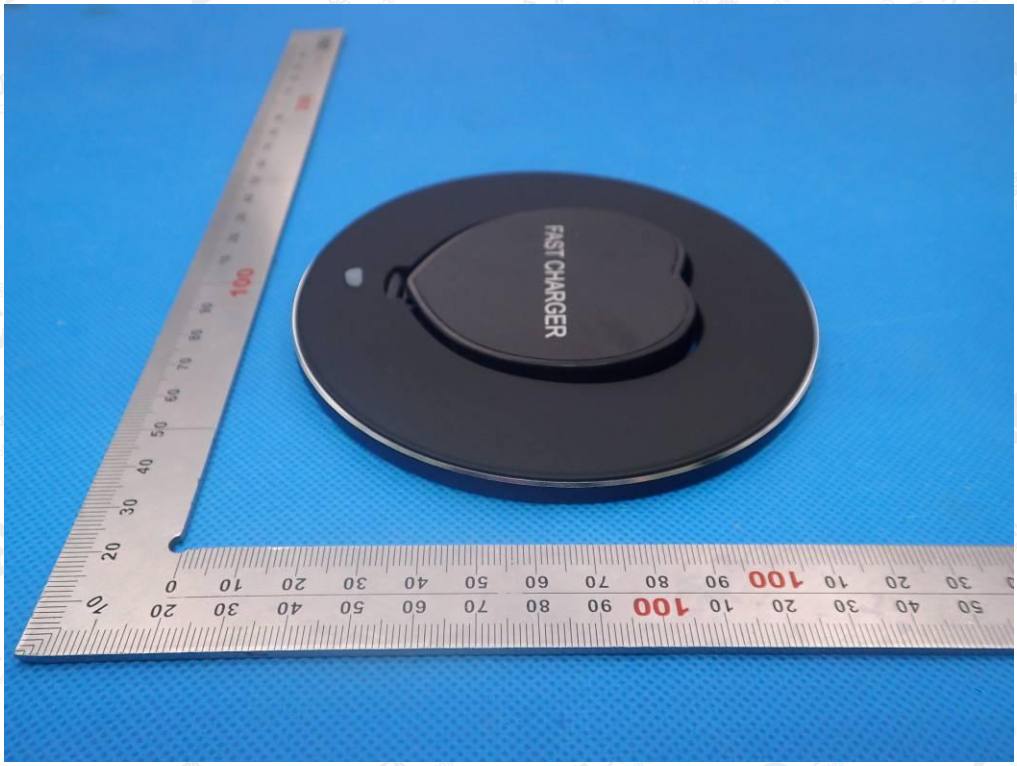
RIGHT VIEW OF EUT



OPEN VIEW-1 OF EUT

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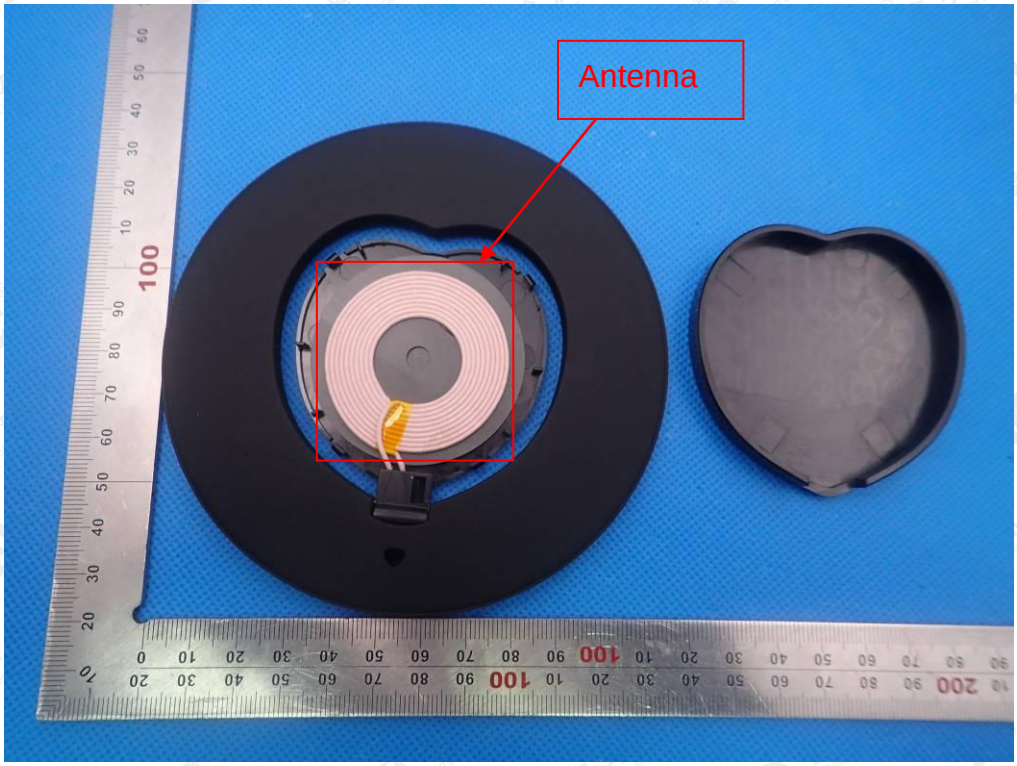
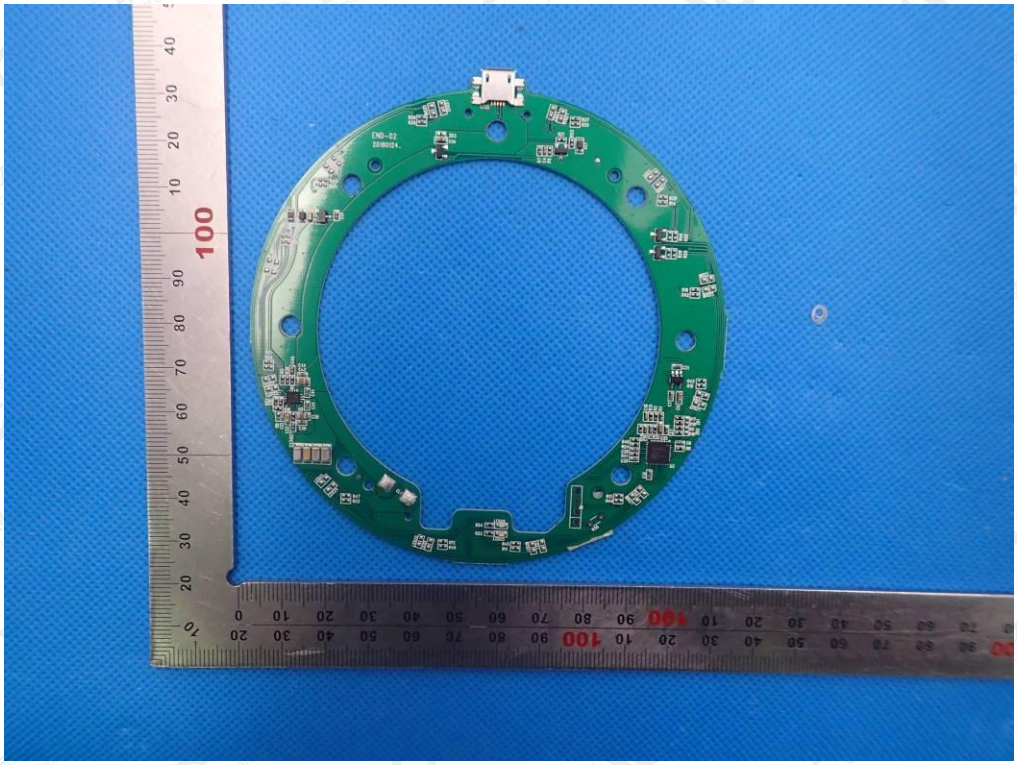
OPEN VIEW-2 OF EUT



INTERNAL VIEW-1 OF EUT



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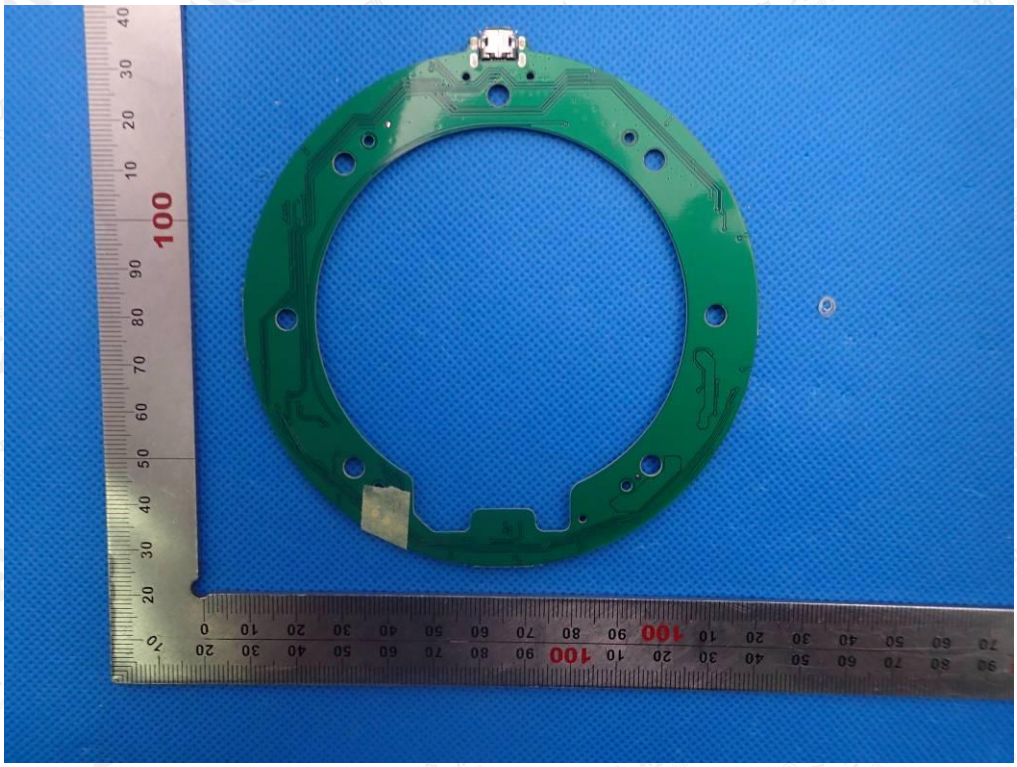
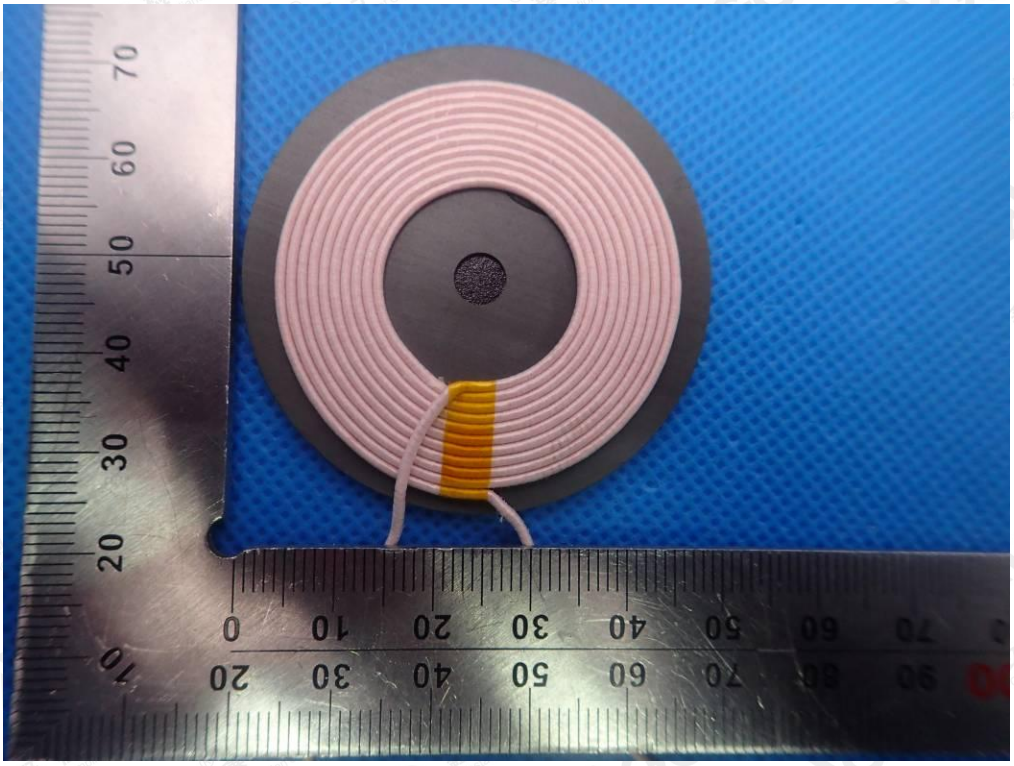
INTERNAL VIEW-2 OF EUT



INTERNAL VIEW-3 OF EUT



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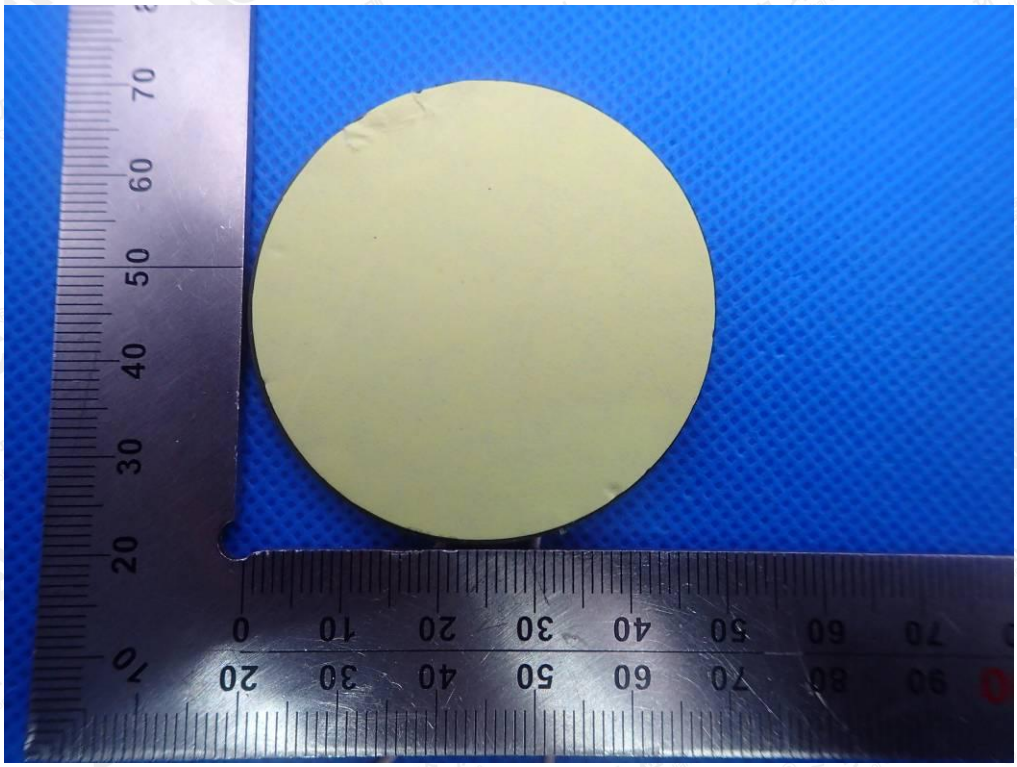
INTERNAL VIEW-4 OF EUT



----END OF REPORT----

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