Zhuhai Eadersay Technology Co., Ltd.

FCC SDOC TEST REPORT

Prepared For:	Zhuhai Eadersay Technology Co., Ltd. 611, 6/F, Building 1, No. 341 Yanhedong Rd, Xiangzhou District, Zhuhai, China
Product Name:	Wireless charger
Trade Name:	N/A
Model :	EDSW0110, EDSW0210, EDSW0310
Prepared By :	Shenzhen United Testing Technology Co., Ltd. 2F, Annex Bldg, Jiahuangyuan Tech Park, #365 Baotian 1 Rd, Tiegang Community, Xixiang Str, Bao'an District, Shenzhen, China
Receipt Date	Jul., 09, 2018
Test Date:	Jul., 09, 2018 – Jul., 19, 2018
Date of Report:	Jul., 19, 2018
Report No.:	UNIA2018071909ER-01

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TEST REPORT DECLARATION

Applicant	:	Zhuhai Eadersay Technology Co., Ltd.
Address	:	611, 6/F, Building 1, No. 341 Yanhedong Rd, Xiangzhou District, Zhuhai, China
EUT Description	:	Wireless charger
Model Number	:	EDSW0110, EDSW0210, EDSW0310

Test Standards:

FCC Part 15B

ANSI C63.4:2014

The EUT described above is tested by US to determine the maximum emission levels emanating from the EUT, the maximum emission levels are compared to the FCC Part 15 limits. The measurement results are contained in this test report. and United Testing Technology (Hong Kong) Limited is assumed of full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT is to be technically compliant with the FCC requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of United Testing Technology (Hong Kong) Limited.

Prepared by: Kahn Yang/Editor

Reviewer: Sherwin Qian/Supervisor

Approved & Authorized Signer: Liuze/Manager

1. GENERAL INFORMATION

1.1.Report information

1.1.1.This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that UNI approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that UNI in any way guarantees the later performance of the product/equipment.

1.1.2.The sample/s mentioned in this report is/are supplied by Applicant, UNI therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.

1.1.3.Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through UNI, unless the applicant has authorized UNI in writing to do so.

1.2.Measurement Uncertainty

Available upon request.

1.3.Test Facility

Site Description

EMC Lab.	:	
Name of Firm	:	Shenzhen United Testing Technology Co., Ltd.
Site Location	:	2F, Annex Bldg, Jiahuangyuan Tech Park, #365 Baotian 1 Rd, Tiegang Community, Xixiang Str, Bao'an District, Shenzhen, China

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.The testing quality system of our laboratory meets with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.
Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L6494
The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of testing Laboratories.

Designation Number: CN1227
Test Firm Registration Number: 674885
The 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.

1.4.Test Uncertainty

Conducted Emission Uncertainty = ±2.66dB
Radiated Emission Uncertainty = ±4.26dB

2. PRODUCT DESCRIPTION

2.1.EUT Description

Description	:	Wireless charger
Applicant	:	Zhuhai Eadersay Technology Co., Ltd. 611, 6/F, Building 1, No. 341 Yanhedong Rd, Xiangzhou District, Zhuhai, China
Manufacturer	:	Zhuhai Eadersay Technology Co., Ltd. 611, 6/F, Building 1, No. 341 Yanhedong Rd, Xiangzhou District, Zhuhai, China
Model Number	:	EDSW0110

2.2.Test Conditions

Temperature: 23~25℃

Relative Humidity: 55~63 %

3. TEST RESULTS SUMMARY

Table 1 Test Results Summary

Test Items	Test Results
Conducted disturbance	N/A
Radiated disturbance	Pass

Remark: “N/A” means “Not applicable.”

4. TEST EQUIPMENT USED

4.1. Test Equipment Used to Measure Conducted Disturbance

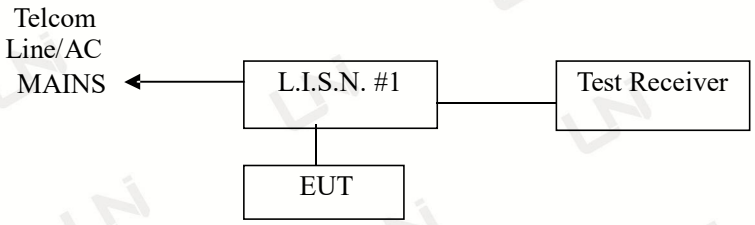
Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	AMN	SCHWARZBECK	NNLK8121	8121370	2018.9.9
2	AMN	ETS	3810/2	00020199	2018.9.9
3	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	101210	2018.9.9
4	AAN	TESEQ	T8-Cat6	38888	2018.9.9

4.2. Test Equipment Used to Measure Radiated Disturbance

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Horn Antenna	Sunol	DRH-118	A101415	2018.9.29
2	Broadband Hybrid Antenna	Sunol	JB1 Antenna	A090215	2018.9.29
3	Amplifier	HP	8449B	3008A00160	2018.9.9
4	Amplifier	HP	8447D	2944A07999	2018.9.9
5	EMI TEST RECEIVER	ROHDE&SCHWARZ	ESR3	101891	2018.9.9
6	MXA Signal Analyzer	Keysight	N9020A	MY51110104	2018.9.9
7	Biconical antenna	Schwarzbeck	VHA 9103	91032360	2018.9.8
8	Biconical antenna	Schwarzbeck	VHA 9103	91032361	2018.9.8
9	Broadband Hybrid Antenna	Schwarzbeck	VULB9163	VULB9163#958	2018.9.8
10	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1680	2019.1.12
11	Active Receive Loop Antenna	Schwarzbeck	FMZB 1919B	00023	2018.11.02
12	Loop Antenna	Beijing daze Technology	ZN30401	13015	2018.9.9
13	EM CAMLP	SCHWARZBECK	MDS21	03350	2018.9.12
14	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170651	2018.03.14
15	Microwave Broadband Preamplifier	Schwarzbeck	BBV 9721	100472	2018.10.24

5. CONDUCTED EMISSION TEST

5.1.Block Diagram of Test Setup



(EUT: Wireless charger)

5.2.Test Standard

FCC Part 15B
ANSI C63.4:2014

5.3.Conducted Emission Limit

Frequency iwox	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.

5.4.EUT Configuration on Test

The following equipments are installed on conducted emission test to meet Part 15 requirement and operating in a manner, which tends to maximize its emission characteristics in a normal application.

5.4.1.EUT Information

Model Number : EDSW0110
Serial Number :

5.5.Operating Condition of EUT

5.5.1.Setup the EUT and simulators as shown in Section 5.1.

5.5.2.Turn on the power of all equipments.

5.5.3.Let the EUT work in test modes (EUT Working) and test it.

5.6.Test Procedure

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI test receiver (R&S Test Receiver ESCS30) is used to test the emissions form both sides of AC line. The bandwidth of EMI test receiver is set at 9kHz.

The bandwidth of the test receiver (R&S Test Receiver ESHS30) is set at 10KHz. and all the scanning waveform are attached

5.7. Test Result

N/A

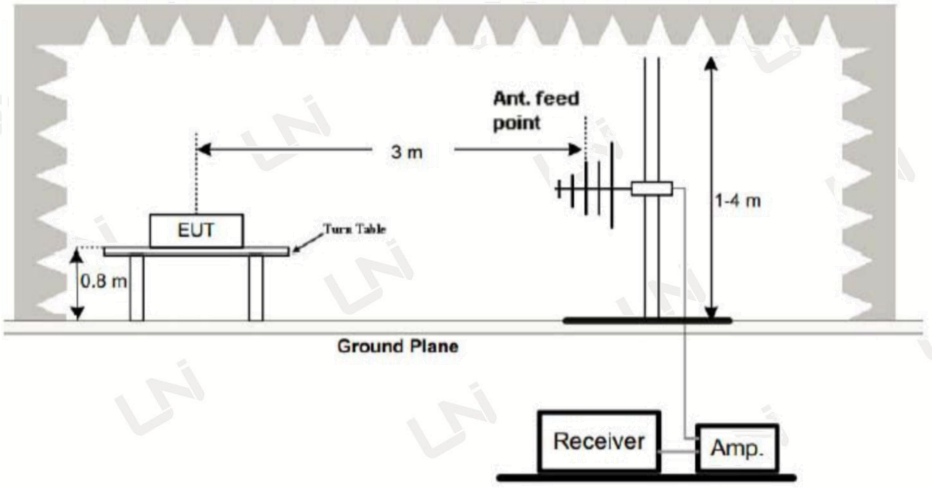
6. RADIATED EMISSION MEASUREMENT

6.1. Block Diagram of EUT Configuration

6.1.1. Block Diagram of connection between the EUT and the simulators

(*EUT: Wireless charger*)

6.1.2. Block diagram of test setup (in semi-Anechoic Chamber)



6.2. Test Standard

FCC Part 15B
ANSI C63.4:2014

6.3. Radiated Emission Limit (Class B)

FREQUENCY (iwoxsz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dBmV/m)
30 ~ 88	3	40.0
88 ~ 216	3	43.5
216 ~ 960	3	46.0
960 ~ 1000	3	54.0

Note: (1) The smaller limit shall apply at the edge between two frequency bands.
(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT or system.

6.4. EUT Configuration on Test

The following equipment are installed on Radiated Emission Measurement to meet the Commission requirements and operating regulations in a manner which tends to maximize Its emission characteristics in normal application.

6.5. Operating Condition of EUT

6.5.1.Setup the EUT as shown on Section 6.1.2
6.5.2.Turn on the power of all equipments.
6.5.3.Let the EUT work in test mode(EUT working) and measure it.

6.6. Test Procedure

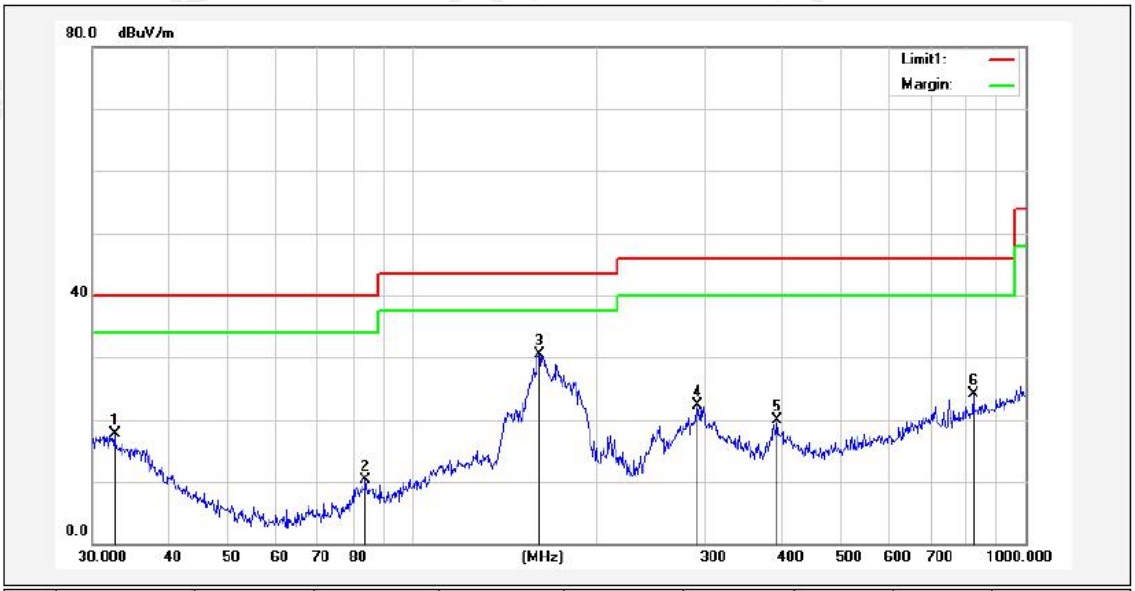
The EUT is placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna (calibrated by dipole antenna) are used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on measurement.

The bandwidth setting on the test receiver (R&S TEST RECEIVER ESCS20) is 120 KHz. The EUT is tested in Anechoic Chamber. The frequency range from 30iwoxsz to 1000 iwoxsz is checked. All the test results are listed in Section 6.7. and all the scanning waveform are attached within Appendix I.

6.7. Test Result

PASS

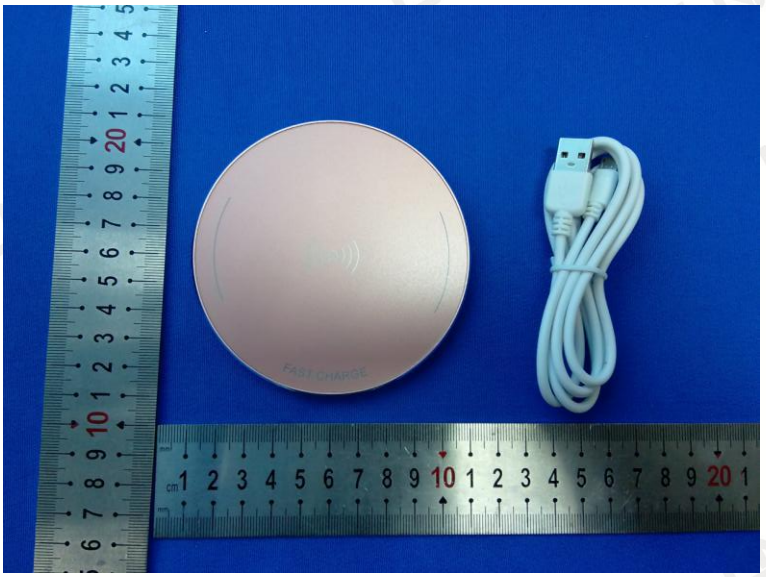
APPENDIX I



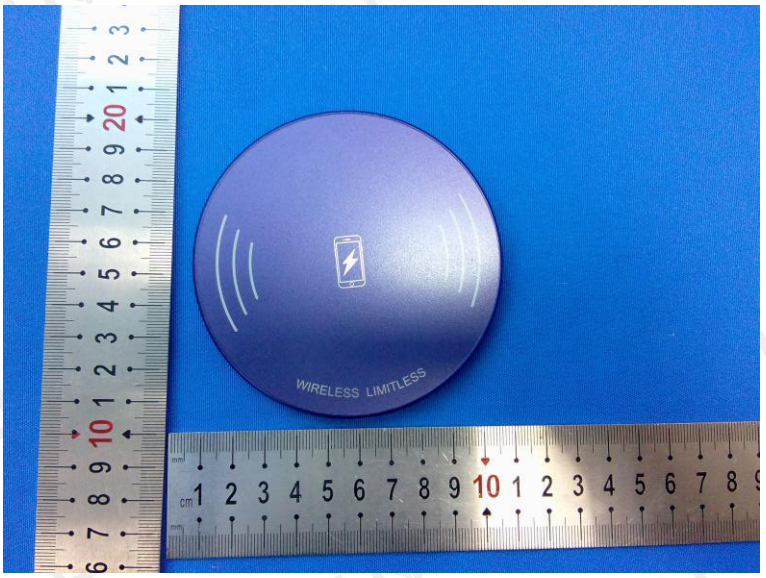
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	32.6340	28.51	-10.81	17.70	40.00	-22.30			peak
2	83.8156	31.75	-21.49	10.26	40.00	-29.74			peak
3*	160.9089	46.67	-16.22	30.45	43.50	-13.05			peak
4	292.0583	35.64	-13.40	22.24	46.00	-23.76			peak
5	393.4724	32.25	-12.36	19.89	46.00	-26.11			peak
6	821.7104	29.38	-5.25	24.13	46.00	-21.87			peak

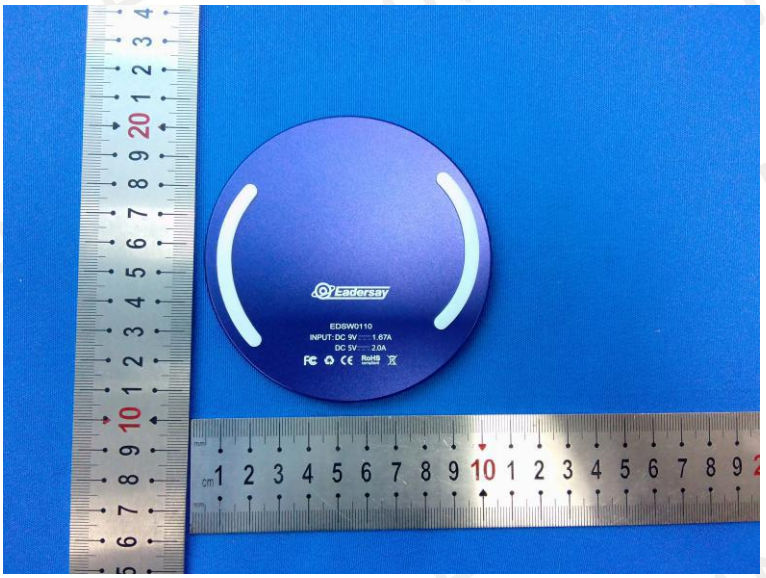
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Remark
1	33.4449	36.71	-11.31	25.40	40.00	-14.60			peak
2	82.9385	42.63	-21.62	21.01	40.00	-18.99			peak
3*	160.9089	46.92	-16.22	30.70	43.50	-12.80			peak
4	305.6800	33.89	-13.31	20.58	46.00	-25.42			peak
5	396.2415	36.14	-12.33	23.81	46.00	-22.19			peak
6	938.8326	29.95	-2.99	26.96	46.00	-19.04			peak

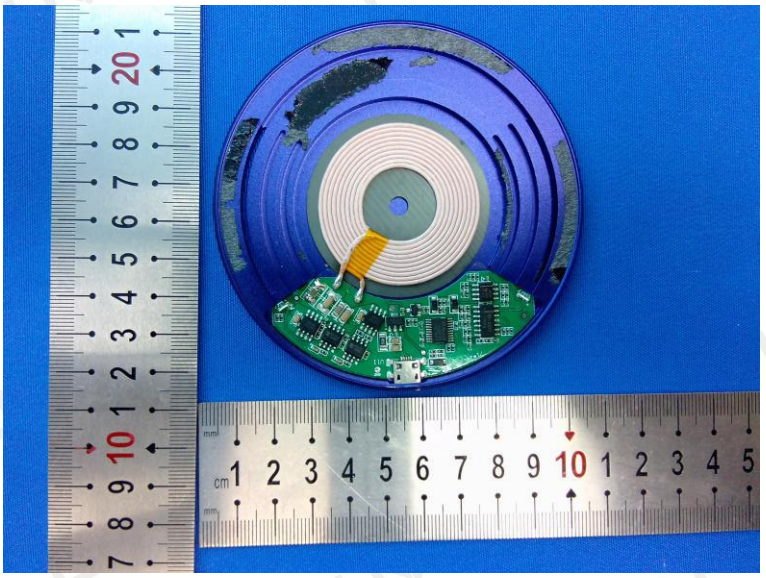
APPENDIX II

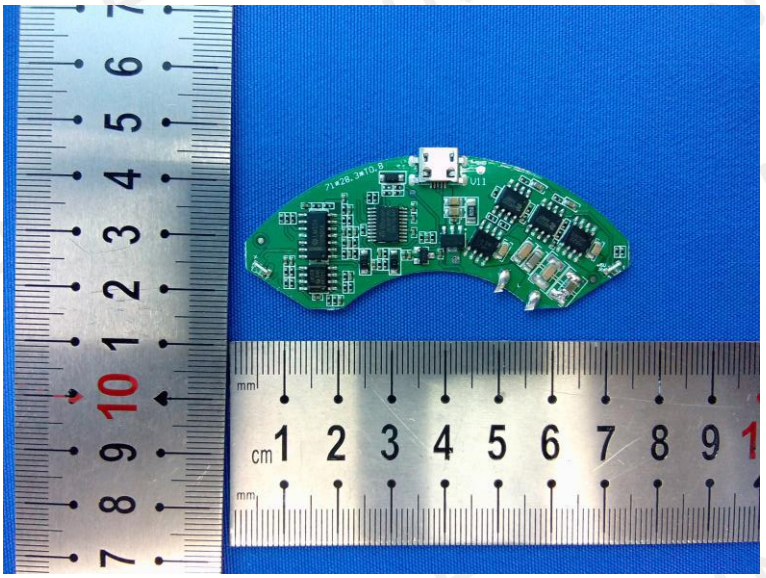


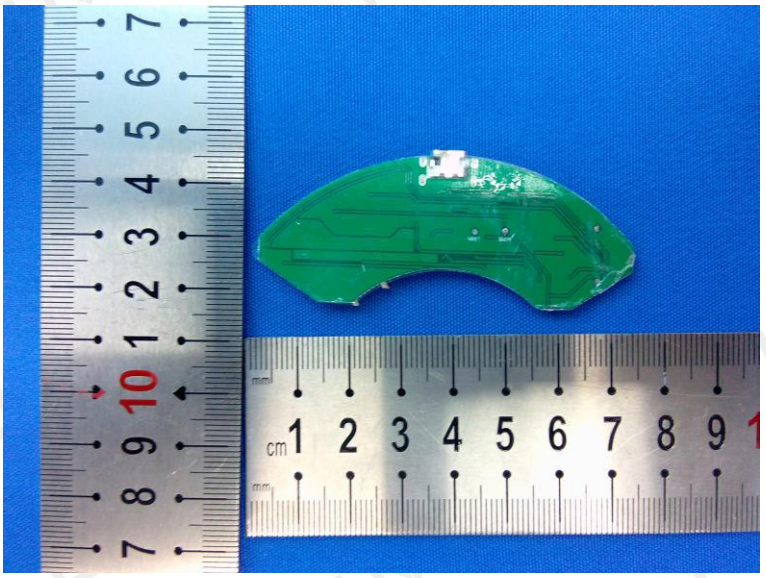

FAST CHARGE

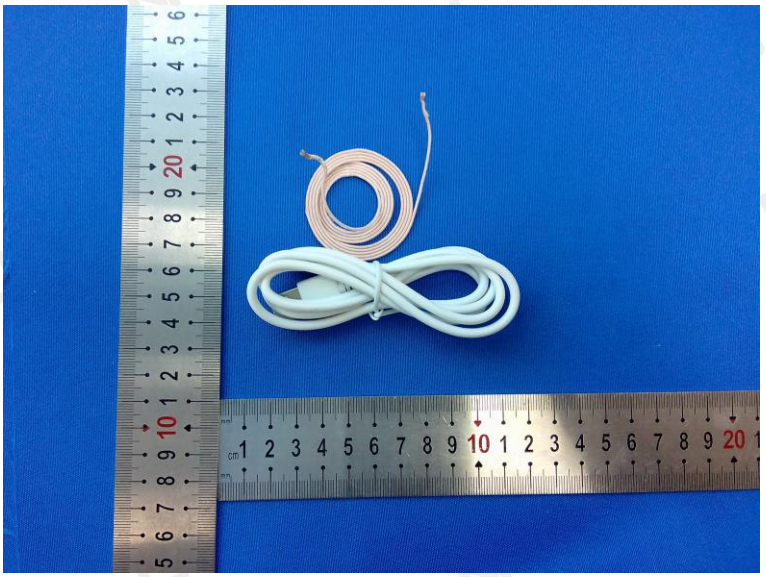

WIRELESS LIMITLESS

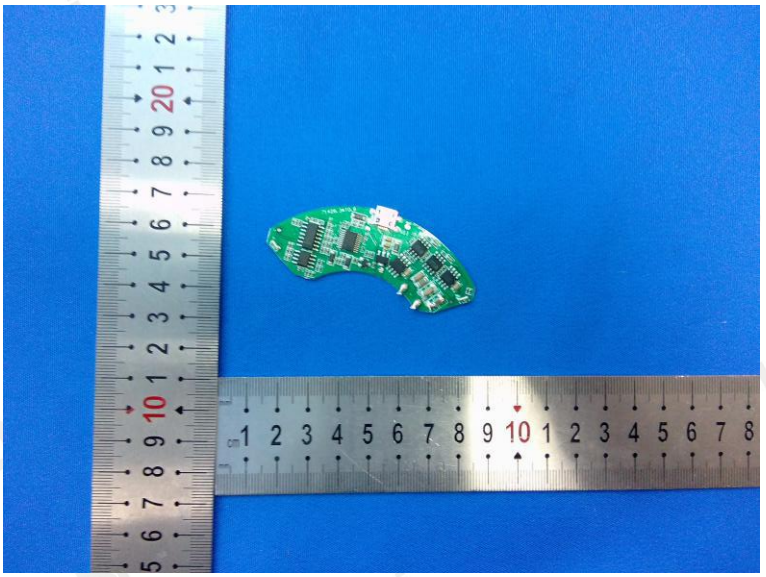

Eadersay
EDSW0110
INPUT: DC 9V 1.67A
DC 5V 2.0A

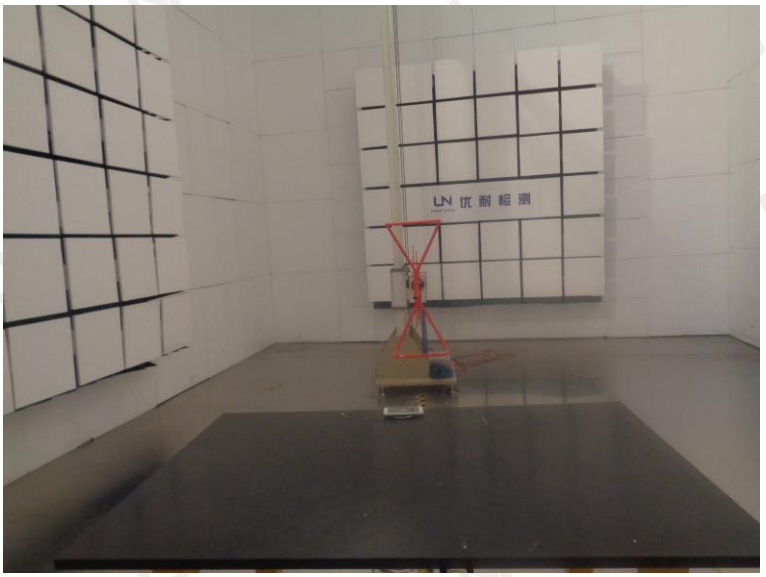












End of Report