



TEST REPORT

Reference No...... : WTS16S1166614E
Applicant..... : SUNVALLEYTEK INTERNATIONAL, INC.
Address..... : 46724 Lakeview Blvd, Fremont, California 94538-6529, United States
Manufacturer : Shenzhen NearbyExpress Technology Development Company
Limited
Address..... : Block D, Minle Industrial Park, Meiban Road, Longhua District,
Shenzhen, China
Product Name..... : Bluetooth Headphone
Model No : TT-BH17
Standards : FCC PART15 SUBPART B: 2016
Date of Receipt sample : Nov. 28, 2016
Date of Test : Dec. 01 - 06, 2016
Date of Issue..... : Dec. 12, 2016
Test Result..... : Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

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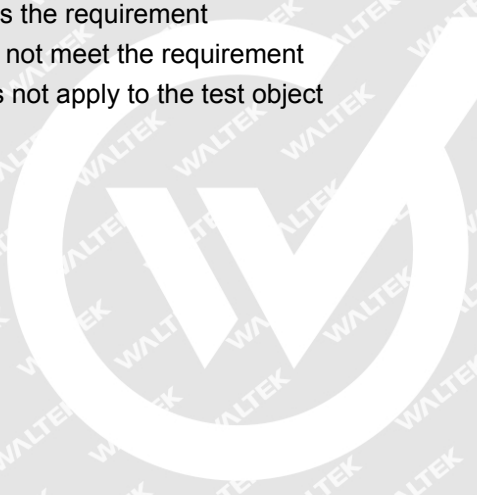


1 Test Summary

Test Item	Test Requirement	Class	Test Method	Test Result
Power Line Conducted Emission (150kHz to 30MHz)	FCC PART 15, SUBPART B: 2016	Class B	ANSI C63.4: 2014	Pass
Radiated Emission (30MHz to 1GHz)	FCC PART 15, SUBPART B: 2016	Class B	ANSI C63.4: 2014	Pass
Radiated Emission (Above 1GHz)	FCC PART 15, SUBPART B: 2016	Class B	ANSI C63.4: 2014	N/A

Remark:

Pass Test item meets the requirement
Fail Test item does not meet the requirement
N/A Test case does not apply to the test object



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3 General Information

3.1 General Description of E.U.T.

Product Name : Bluetooth Headphone
Model No. : TT-BH17
Model Difference : N/A

3.2 Details of E.U.T.

Technical Data : DC 3.7V, 450mAh, by battery.
Charging power supply: DC 5V by USB from PC

3.3 Standards Applicable for Testing

The tests were performed according to following standards:

FCC PART 15, SUBPART B: Electronic Code of Federal Regulations- Unintentional Radiators 2016

3.4 Test Facility

The test facility has a test site registered with the following organizations:

- **IC – Registration No.: 7760A-1**

Waltek Services(Shenzhen) Co., Ltd. has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration 7760A-1, October 15, 2015

- **FCC Test Site 1#– Registration No.: 880581**

Waltek Services (Shenzhen) Co., Ltd. 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 880581, April 29, 2014.

- **FCC Test Site 2#– Registration No.: 328995**

Waltek Services(Shenzhen) Co., Ltd. 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 328995, December 3, 2014.

3.5 Subcontracted

Whether parts of tests for the product have been subcontracted to other labs:

☐ Yes ☒ No

If Yes, list the related test items and lab information:

Test Lab: N/A
Lab address: N/A
Test items: N/A

3.6 Abnormalities from Standard Conditions

None.



4 Equipment Used during Test

4.1 Equipment List

Conducted Emissions						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMI Test Receiver	R&S	ESCI	101155	Sep.12, 2016	Sep.11, 2017
2.	LISN	SCHWARZBECK	NSLK 8128	8128-289	Sep.12, 2016	Sep.11, 2017
3.	Limiter	York	MTS-IMP-136	261115-001-0024	Sep.12, 2016	Sep.11, 2017
4.	Cable	LARGE	RF300	-	Sep.12, 2016	Sep.11, 2017
3m Semi-anechoic Chamber for Radiation(TDK), 30~1000MHz						
Item	Equipment	Manufacturer	Model No.	Serial No	Last Calibration Date	Calibration Due Date
1	Test Receiver	R&S	ESCI	101296	Apr.13, 2016	Apr.12, 2017
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	Apr.09, 2016	Apr.08, 2017
3	Amplifier	Compliance pirection systems inc	PAP-0203	22024	Apr.13, 2016	Apr.12, 2017
5	Cable	HUBER+SUHNE R	CBL2	525178	Apr.13, 2016	Apr.12, 2017

4.2 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	±3.64dB	(1)
Radiation Emission	30MHz~1000MHz	±5.03dB	(1)
	1GHz~6GHz	±5.47dB	(1)

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



5 Emission Test Results

5.1 Power Line Conducted Emission, 150 kHz to 30MHz

Test Requirement : FCC PART 15, SUBPART B
 Test Method : ANSI C63.4
 Test Result : Pass
 Frequency Range : 150kHz to 30MHz
 Class : Class B
 Limit :

Frequency (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50

5.1.1 E.U.T. Operation

Operating Environment:

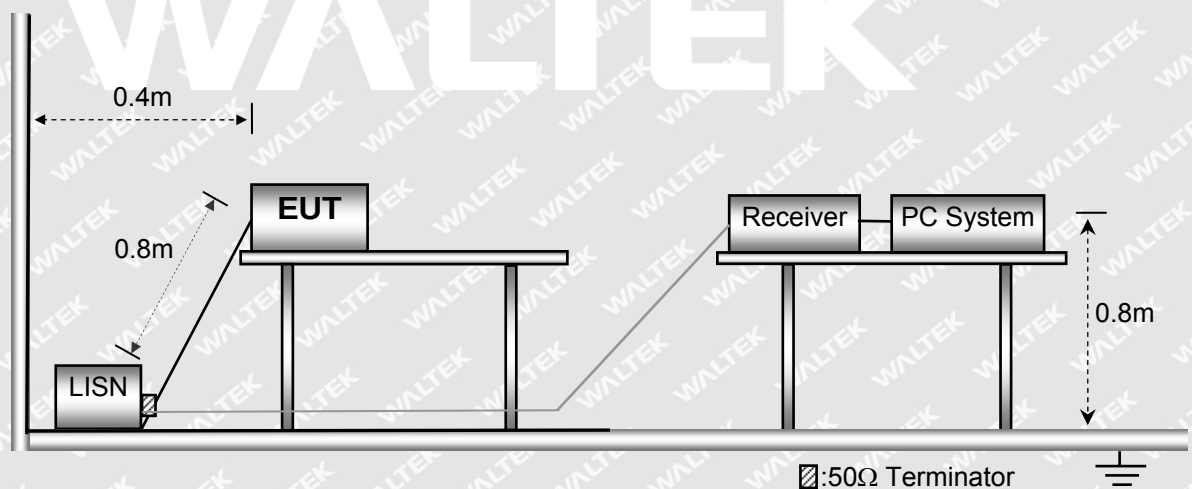
Temperature : 23°C
 Humidity : 53.6%RH
 Atmospheric Pressure : 101kPa

EUT Operation:

Input Voltage : DC 5V by USB
 Operating Mode : Charging +Aux in mode

5.1.2 Block Diagram of Test Setup

The Mains Terminals Disturbance Voltage tests were performed in accordance with the ANSI C63.4 .



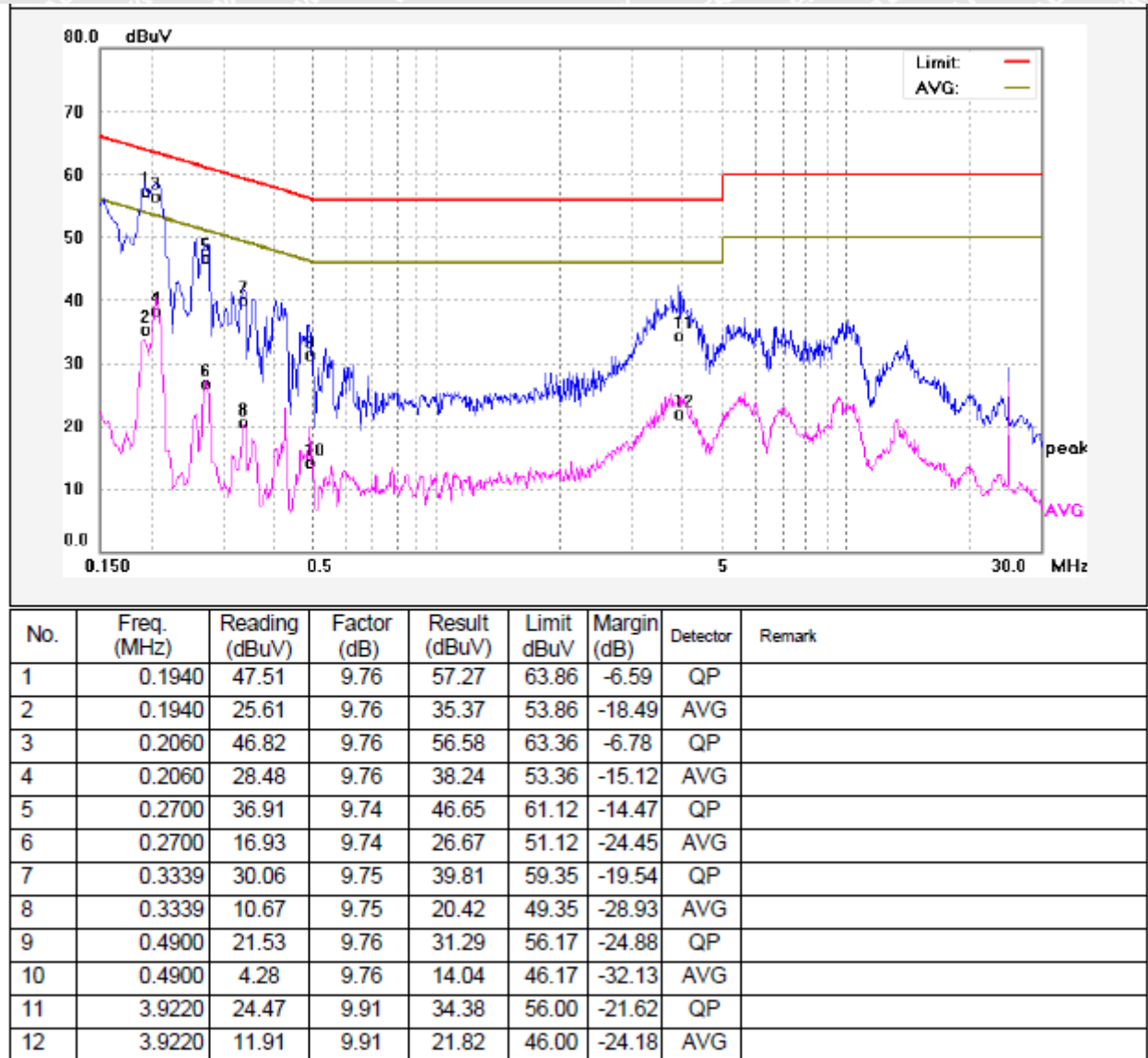


5.1.3 Measurement Data

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line. According to the data in section 5.1.4, the EUT complied with the FCC PART 15, SUBPART B standards.

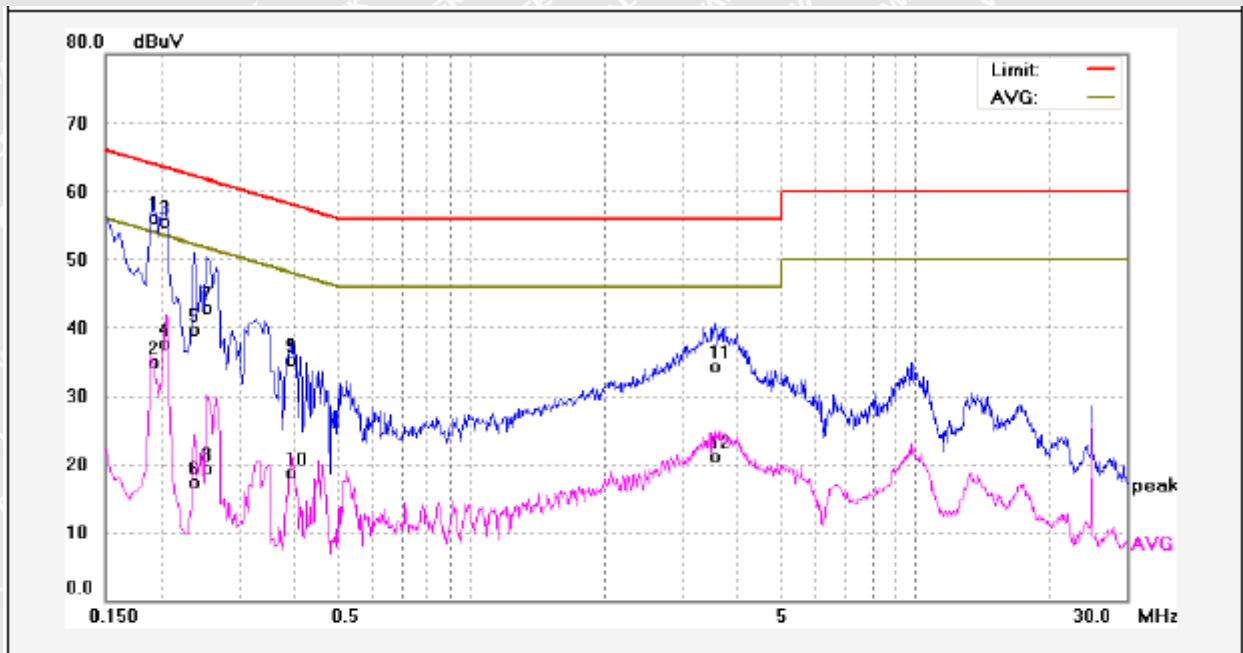
5.1.4 Power Line Conducted Emission Test Data

Live Line:





Neutral Line:





5.2 Radiation Emission, 30MHz to 1000MHz

Test Requirement : FCC PART 15, SUBPART B
Test Method : ANSI C63.4
Test Result : Pass
Frequency Range : 30MHz to 1000MHz
Class. : Class B
Limit..... :

Frequency (MHz)	Distance (Meter)	Limit (dB μ V/m Quasi-peak)
30 to 88	3	40
88 to 216	3	43.5
216 to 960	3	46
960 to 1000	3	54

5.2.1 E.U.T. Operation

Operating Environment:

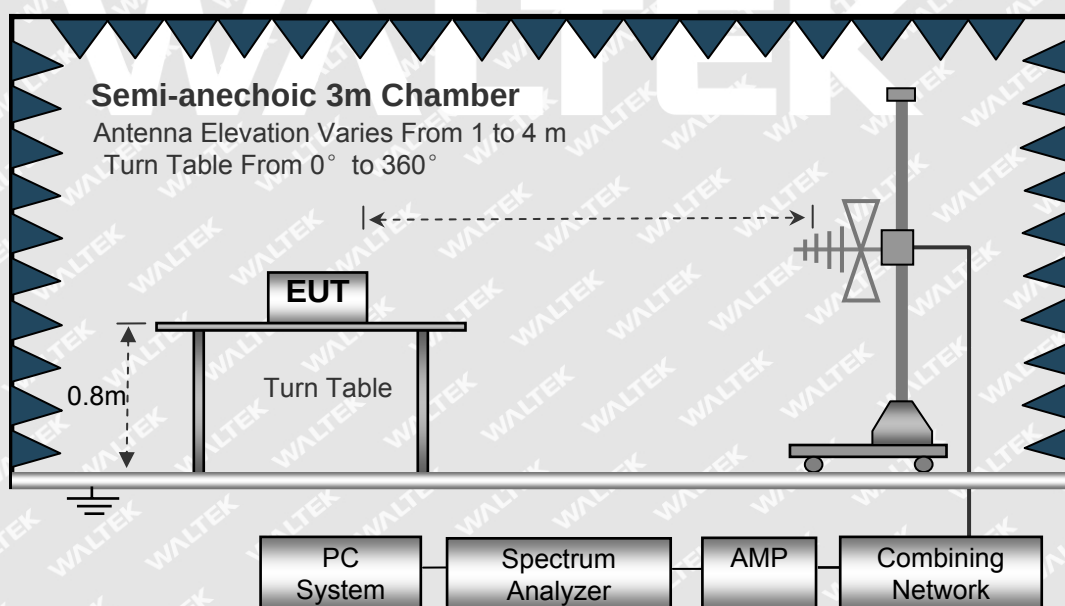
Temperature : 23°C
Humidity : 54.1%RH
Atmospheric Pressure..... : 101kPa

EUT Operation:

Input Voltage : DC 5V by USB, DC 3.7V by Battery
Operating Mode : Charging +Aux mode, Aux in mode
Remark : All test mode were tested and passed, only the worst case mode "Charging +Aux mode" which were recorded in this report.

5.2.2 Block Diagram of Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4.



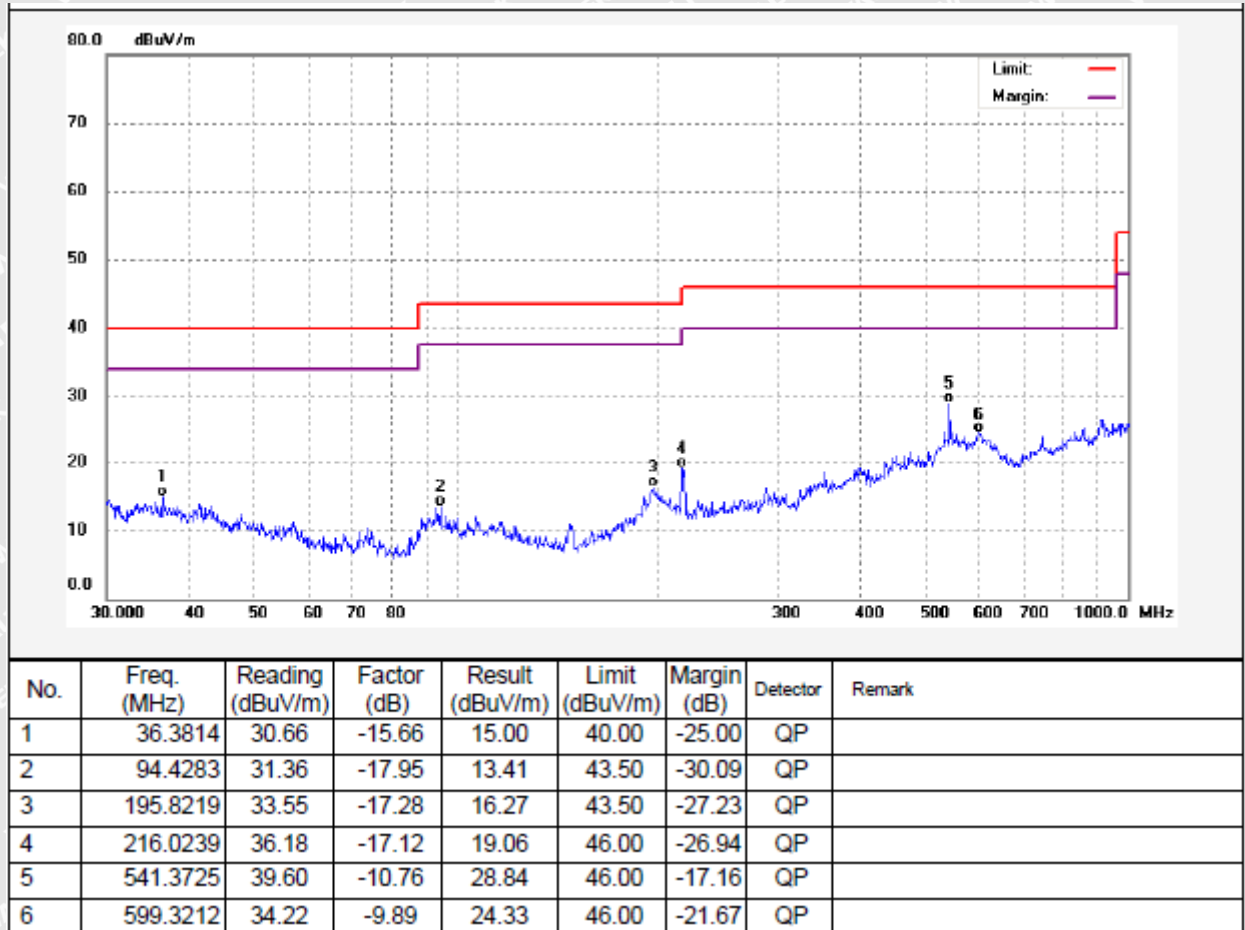


5.2.3 Measurement Data

The maximised peak emissions from the EUT was scanned and measured for both the Antenna Vertical Polarization and Antenna Horizontal Polarization. Quasi-peak measurements were performed if peak emissions were within 6dB of the Quasi-peak limit line.

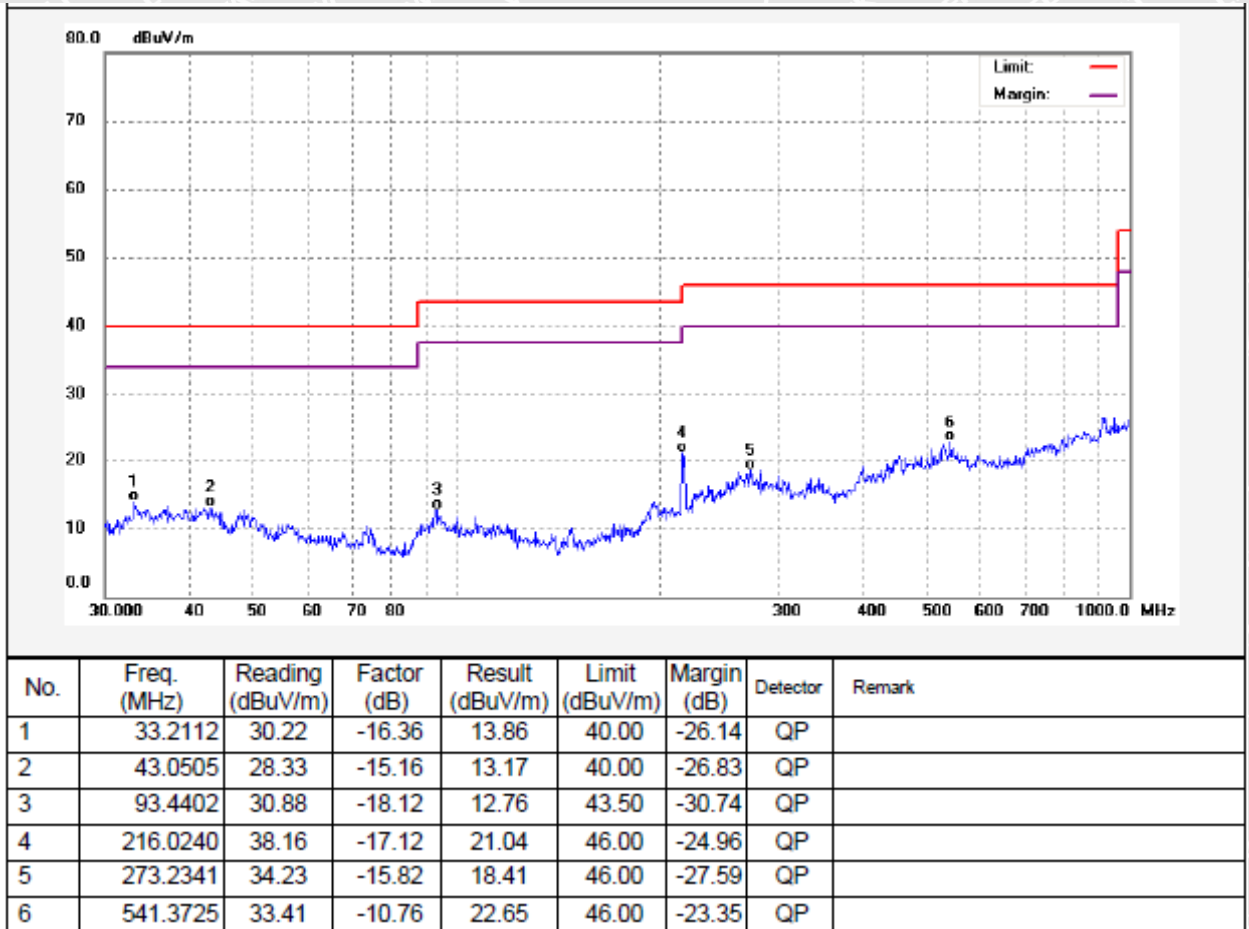
5.2.4 Radiated Emission Test Data, 30MHz to 1000MHz

Antenna Polarization: Vertical





Antenna Polarization: Horizontal



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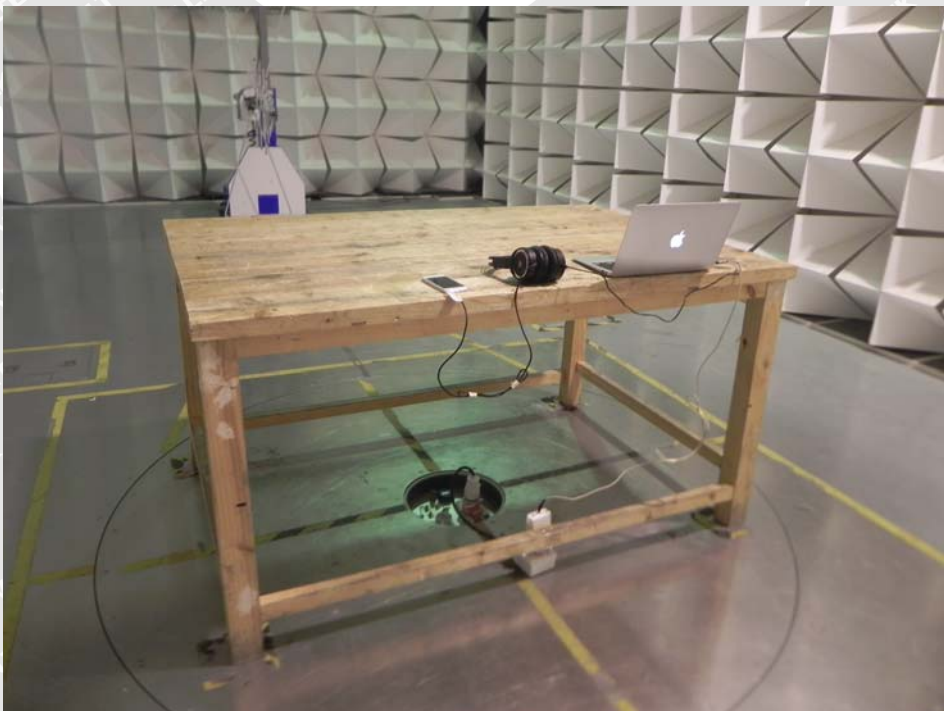


6 Photographs – Test Setup

6.1 Photograph –Power Line Conducted Emission Test Setup



6.2 Photograph – Radiated Emission Test Setup for 30MHz~1000MHz





7 Photographs – Constructional Details

7.1 EUT – Appearance View





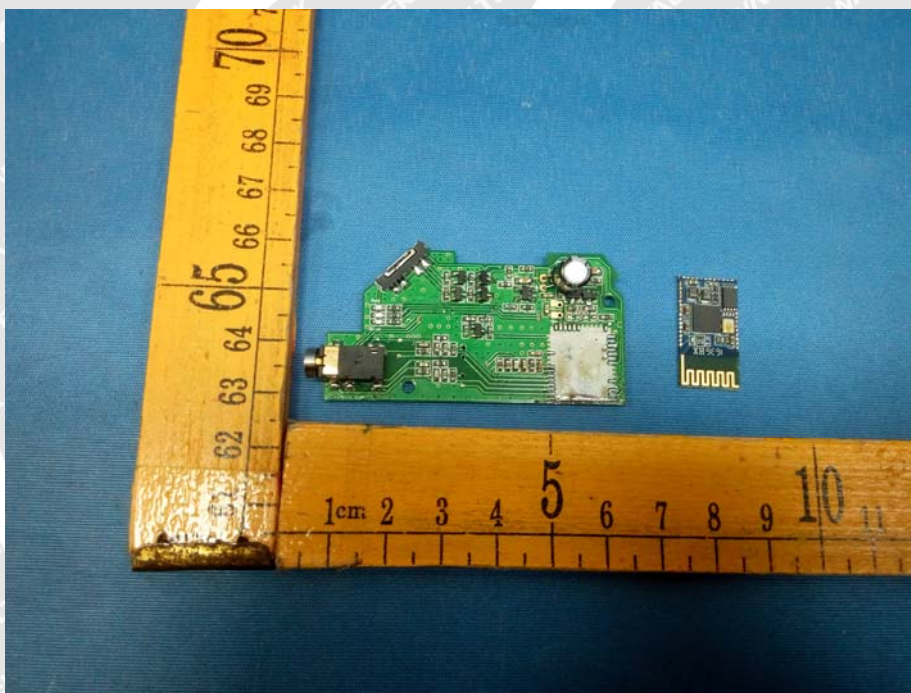
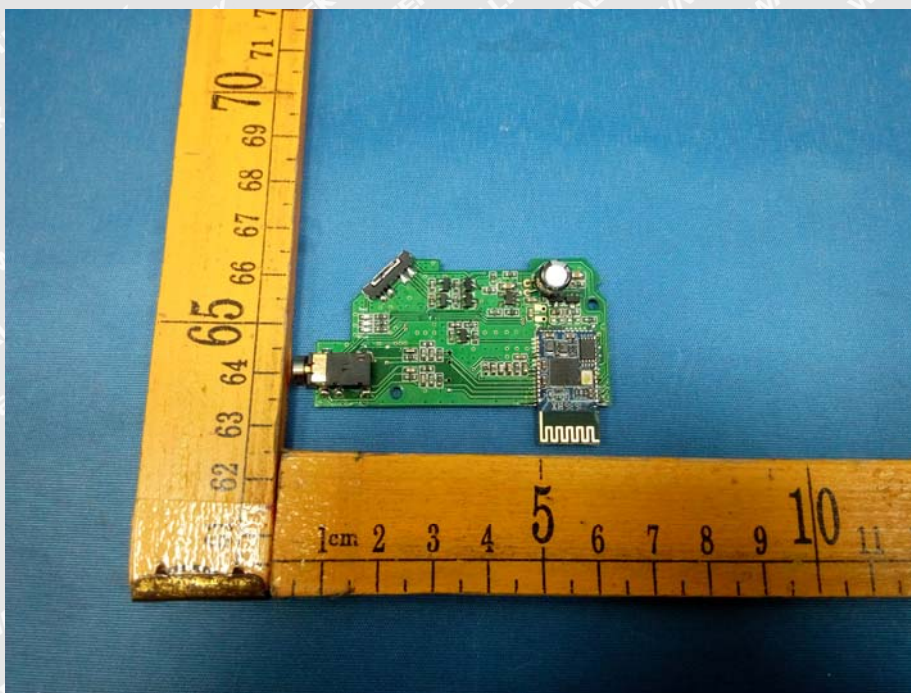


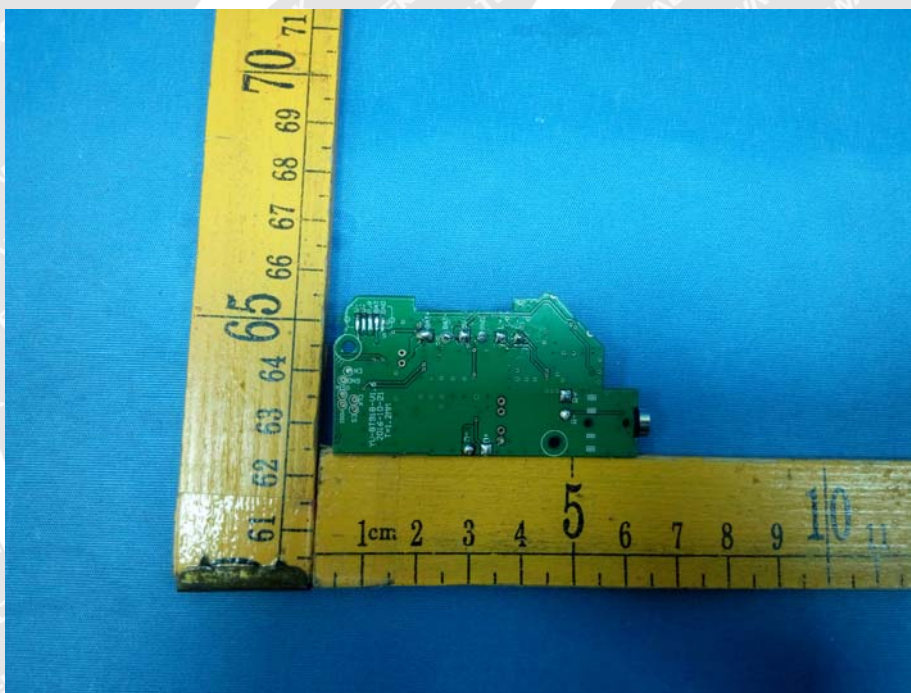
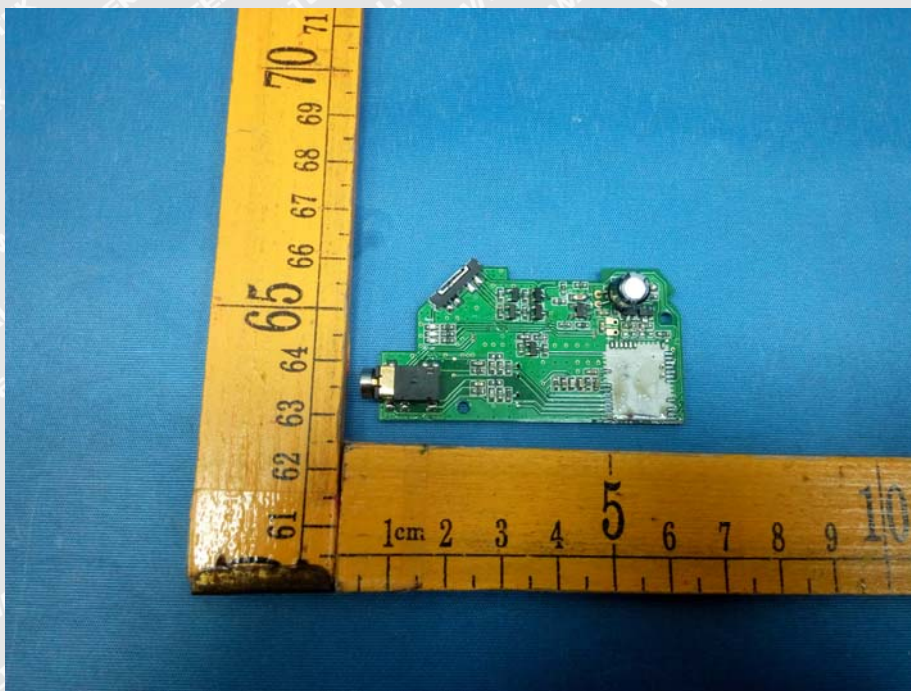


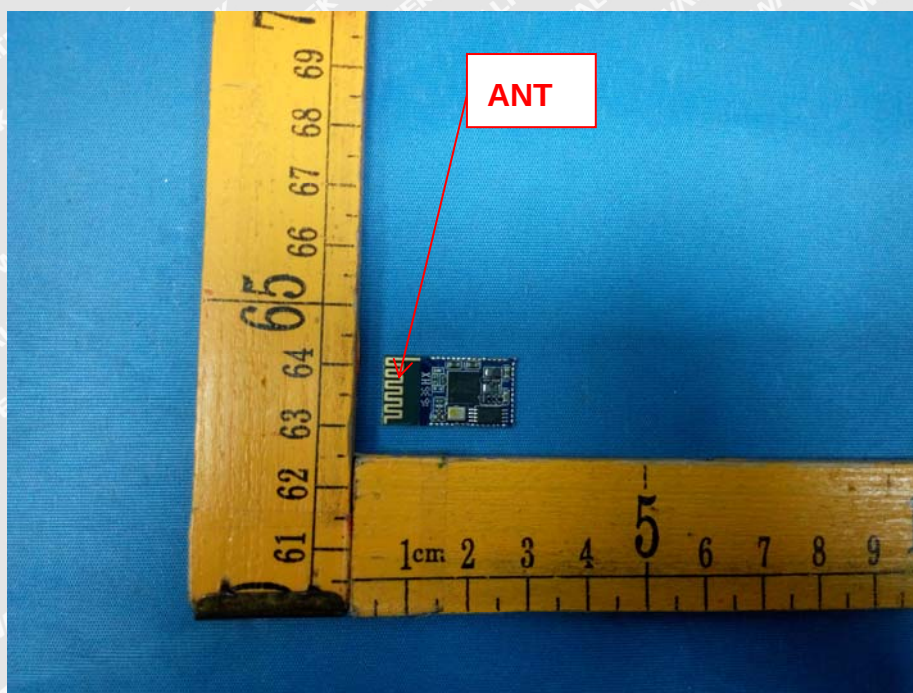


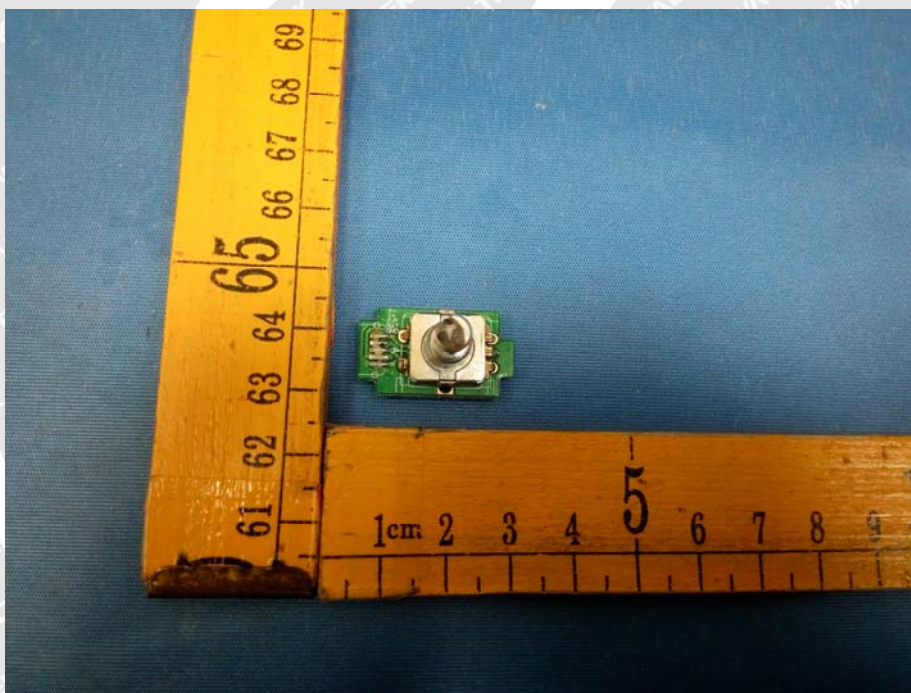
7.2 EUT – Internal View

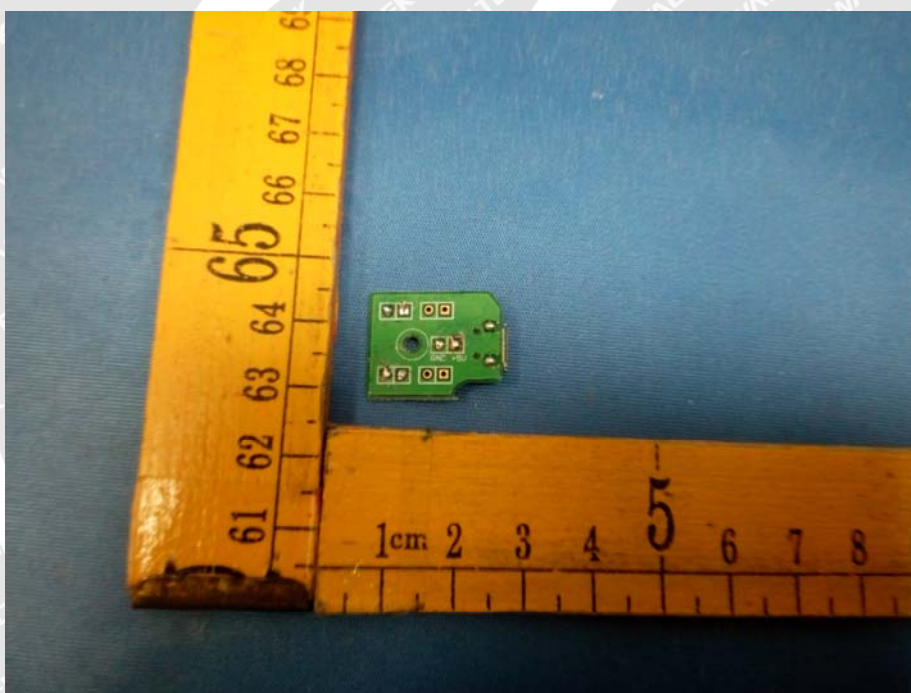
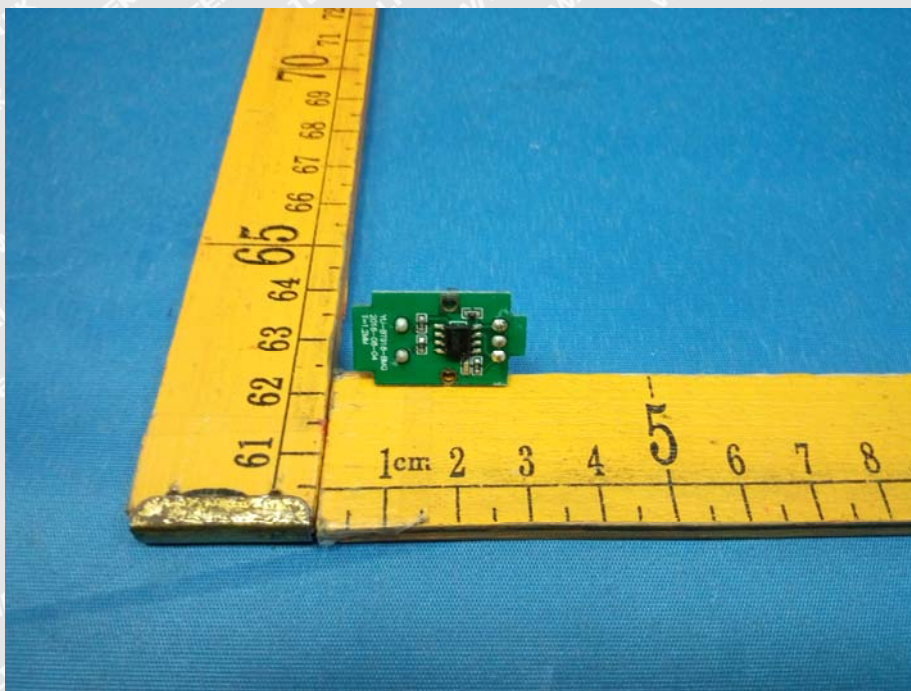


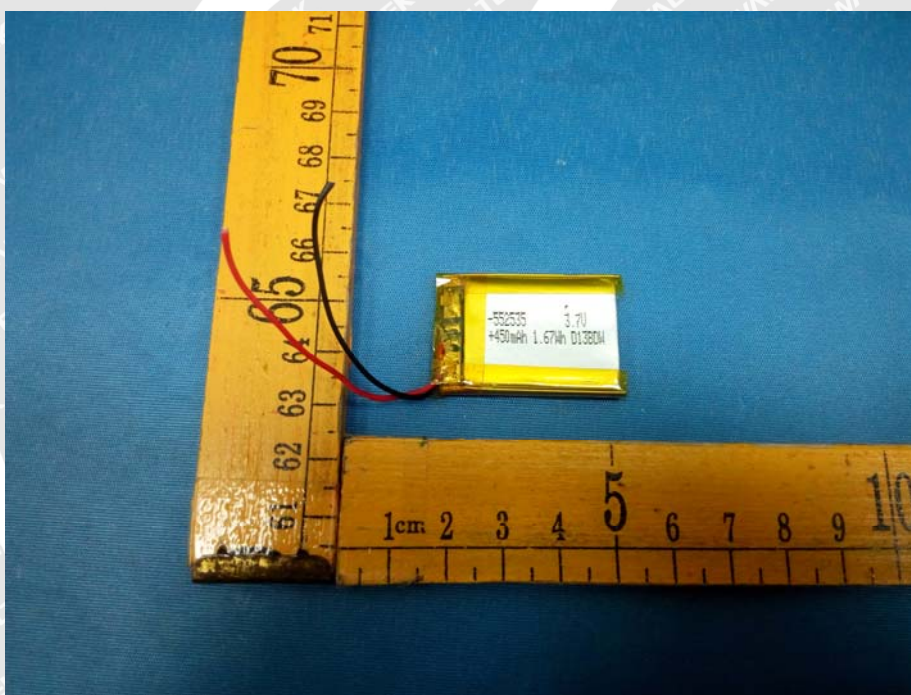
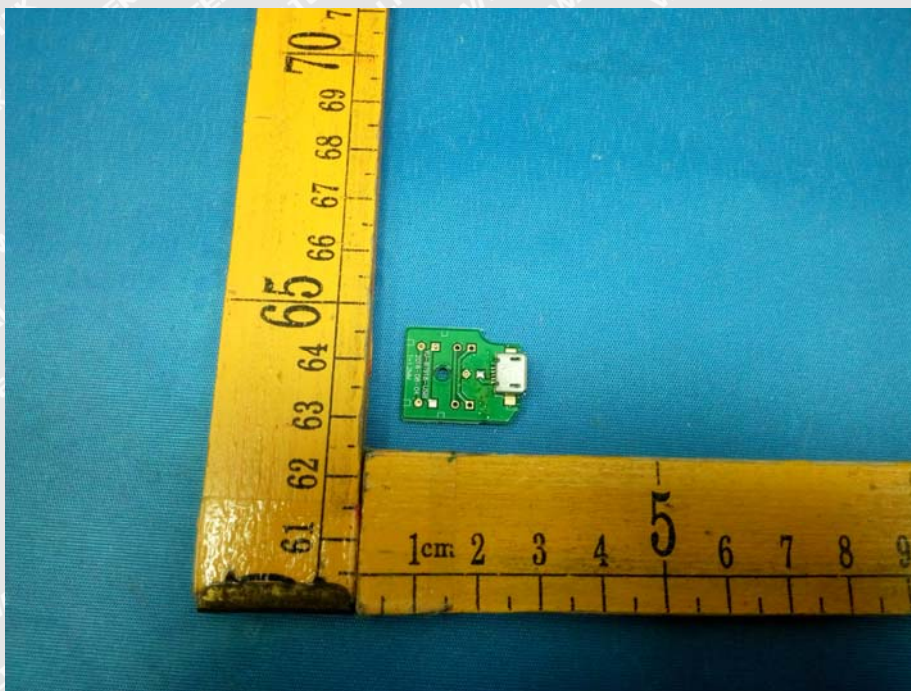


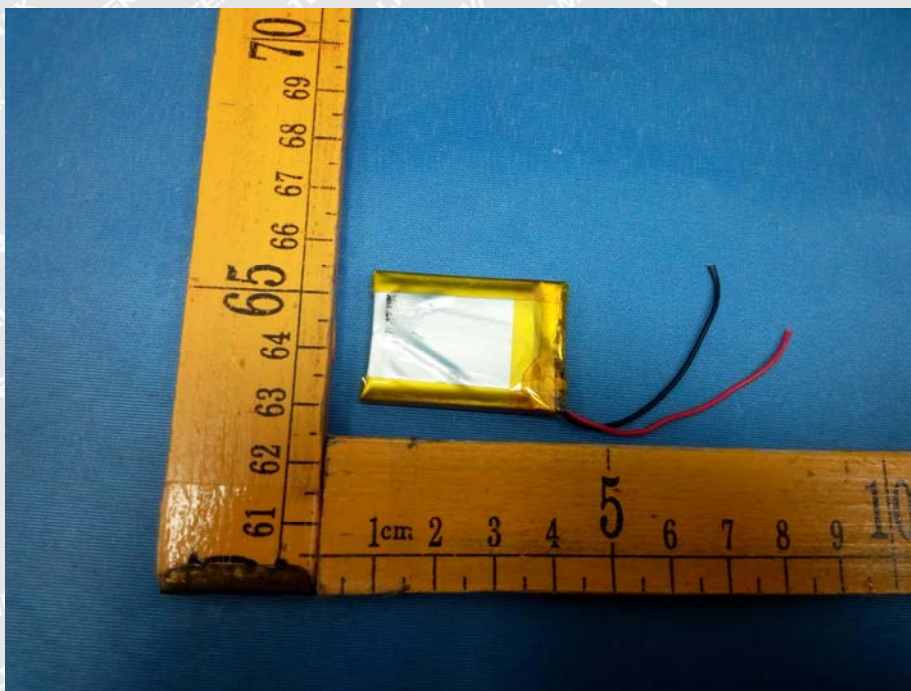












=====End of Report=====

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