

FCC - TEST REPORT

Report Number : **60.790.16.010.01** Date of Issue : February 20, 2016

Model : **RDWL311A**

Product Type : **Doorbell**

Applicant : Honeywell International Inc.

Address : 1985 Douglas Drive North, Golden Valley, U.S.A

Production Facility : Ansen Electronics Company

Address : Chen Tung Industrial Zone, Ning Tau Administrative District,
Qiao Tau Zhen, Dongguan, Guangdong, China

Test Result : ☒ **Positive** ☐ **Negative**

Total pages including Appendices : 19

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2 Description of Equipment Under Test

Description of the Equipment Under Test

Product: Doorbell

Model no.: RDWL311A

FCC ID: HS9-RDWL311A

Rating: 6.0VDC (4 x 1.5VDC size "AA" Batteries)

Description: The EUT is considered as Superheterodyne Receiver, the operating frequency is 916.8MHz. More details of EUT technical specification please refer to the User's Manual.

3 Summary of Test Standards

Test Standards
FCC Part 15 Subpart B 10-1-14 Edition Federal Communications Commission, PART 15 — Radio Frequency Devices, Subpart B — Unintentional Radiators

4 Details about the Test Laboratory

Site 1

Company name: TÜV SÜD Hong Kong Ltd.
3/F, West Wing, Lakeside 2,
10 Science Park West Avenue,
Science Park, Shatin, Hong Kong

Site 2

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13 Zhiheng Wisdomland Business Park,
Nantou Checkpoint Road 2,
Shenzhen 518052, P.R.China
FCC Registration Number: 502708

Emission Tests	
Test Item	Test Site
FCC Part 15 Subpart B	
FCC Title 47 Part 15.109 Radiated Emission 30MHz-1000MHz	Site 2
FCC Title 47 Part 15.107 Conduct Emission 150kHz-30MHz	NIL

4.1 Test Equipment Site List

Radiated emission Test – Site 2

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	101269	17-Aug-16
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	707	17-Aug-17
Horn Antenna	Rohde & Schwarz	HF907	102294	17-Aug-17
Pre-amplifier	Rohde & Schwarz	SCU 18	102230	17-Aug-16
3m Semi-anechoic chamber	TDK	9X6X6	----	29-May-19

4.2 Measurement System Uncertainty

Measurement System Uncertainty Emissions

System Measurement Uncertainty	
Items	Extended Uncertainty
Uncertainty for Radiated Emission in 3m chamber 30MHz-1000MHz	Horizontal: 4.83dB; Vertical: 4.91dB;

5 Summary of Test Results

Emission Tests				
FCC Part 15 Subpart B				
Test Condition	Pages	Test Result		
		Pass	Fail	N/A
FCC Title 47 Part 15.109 Radiated Emission 30MHz-1000MHz	10-11	☒	☐	☐
FCC Title 47 Part 15.107 Conduct Emission 150kHz-30MHz	NIL	☐	☐	☒

6 General Remarks

Remarks

NIL

SUMMARY:

- All tests according to the regulations cited on page 5 were

■ - Performed

□ - **Not** Performed

- The Equipment Under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

Sample Received Date: January 26, 2016

Testing Start Date: January 27, 2016

Testing End Date: February 1, 2016

- TÜV SÜD HONG KONG LTD. -

Reviewed by:



TSENG Chi Kit
EMC Project Engineer



Prepared by:



CHAN Kwong Ngai
EMC Test Engineer

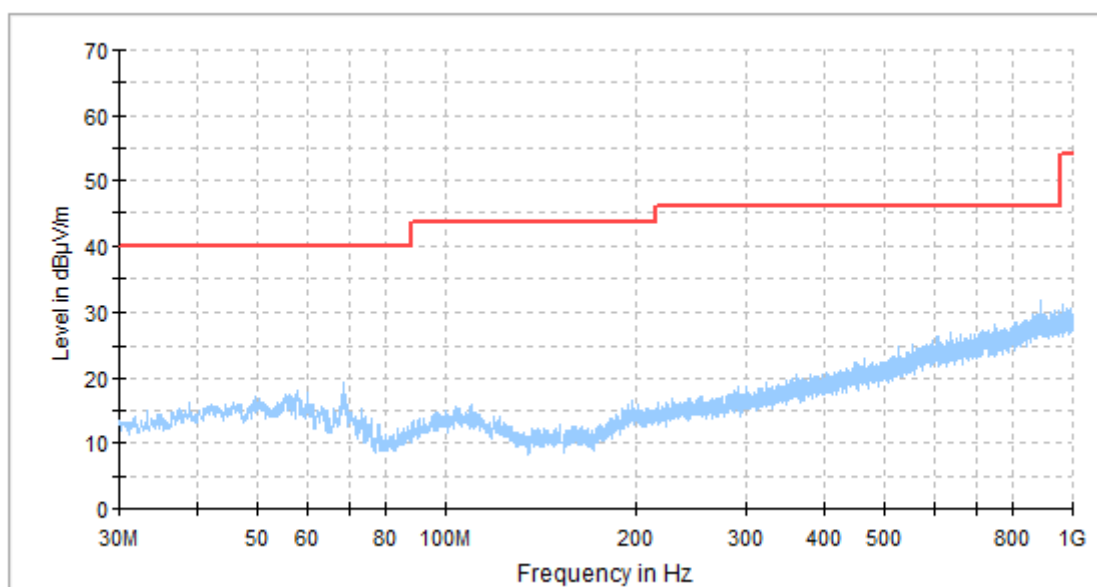
7 Emission Test Results

7.1 Radiated Emission

EUT: RDWL311A
 Op Condition: Operating, Normal Link
 Test Specification: Antenna: Horizontal
 Comment: 6.0VDC

Test Result

☒ Passed

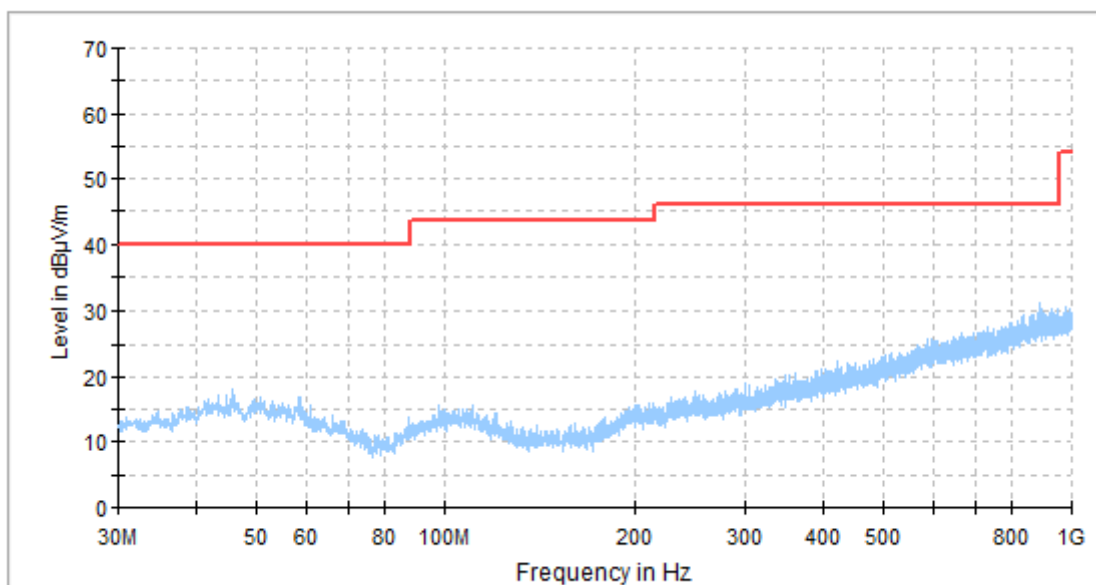
☐ Not Passed


Frequency MHz	QP dBμV/m	Limit dBμV/m	Margin dB
55.430	18.08	40	-21.92
66.873	18.95	40	-21.05

Radiated Emission

EUT: RDWL311A
Op Condition: Operated, Normal Link
Test Specification: Antenna: Vertical
Comment: 6.0VDC

Test Result
☒ Passed
☐ Not Passed



Frequency MHz	QP dBµV/m	Limit dBµV/m	Margin dB
45.782	18.03	40	-21.97
58.940	16.77	40	-23.23

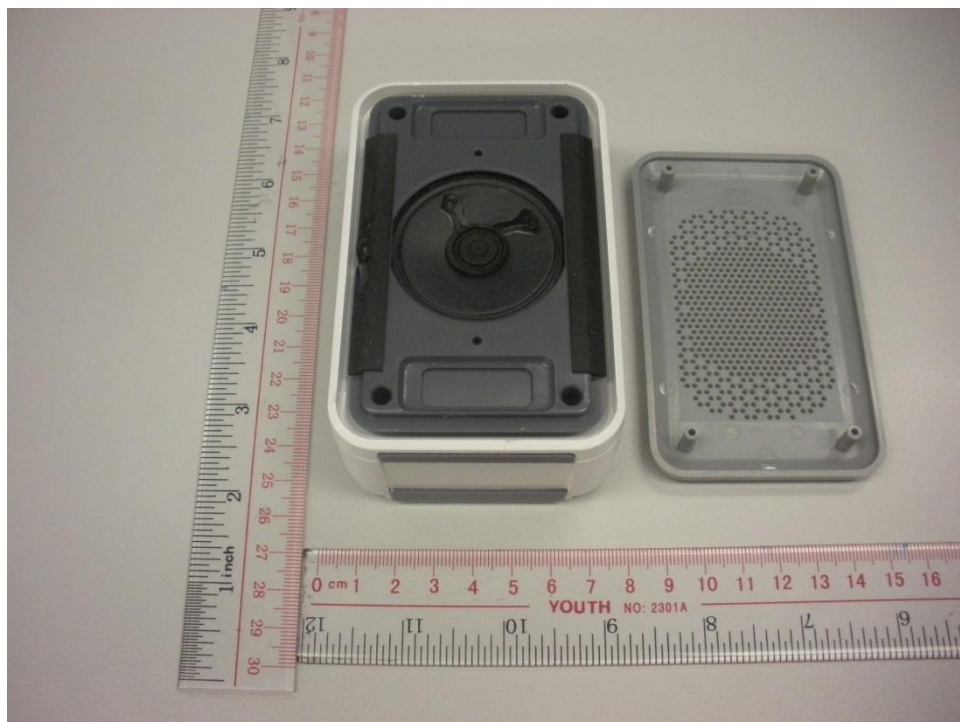
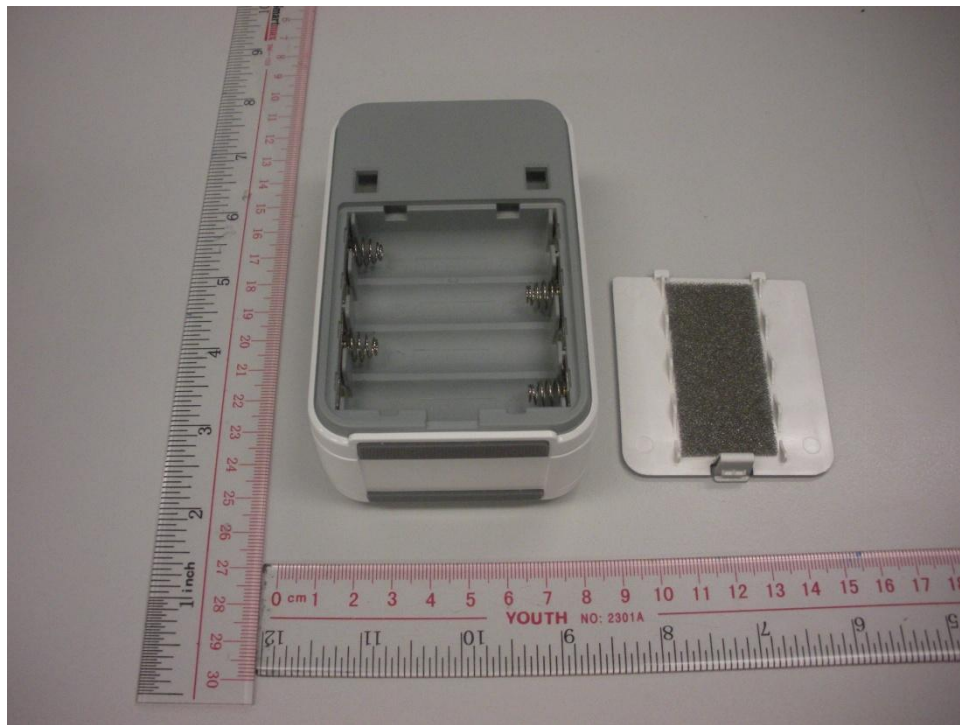
8 Appendix A - Photographs of EUT



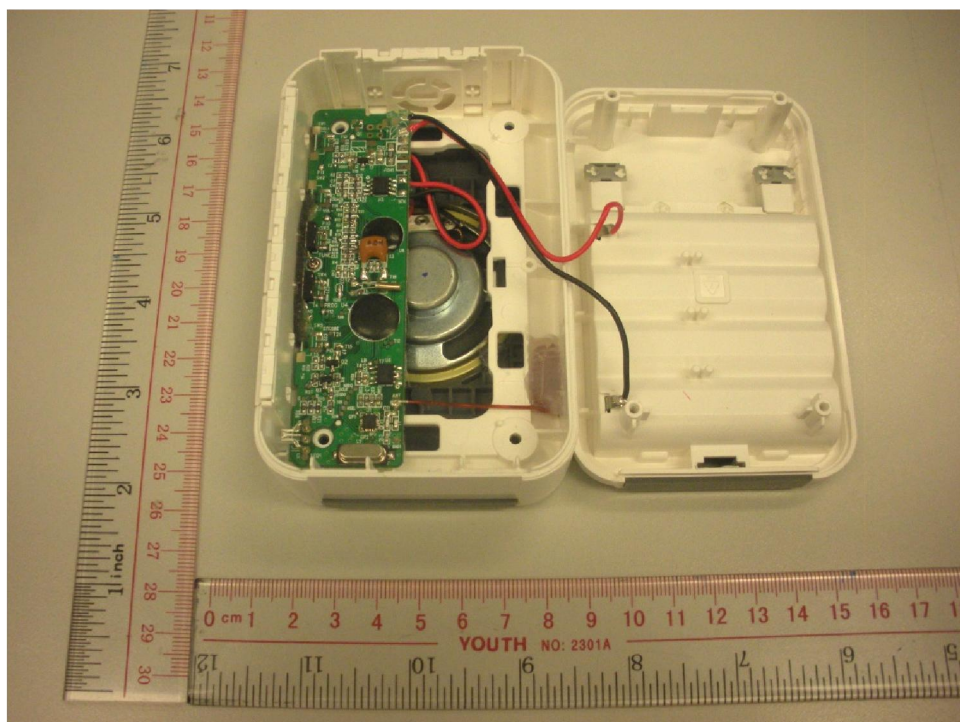
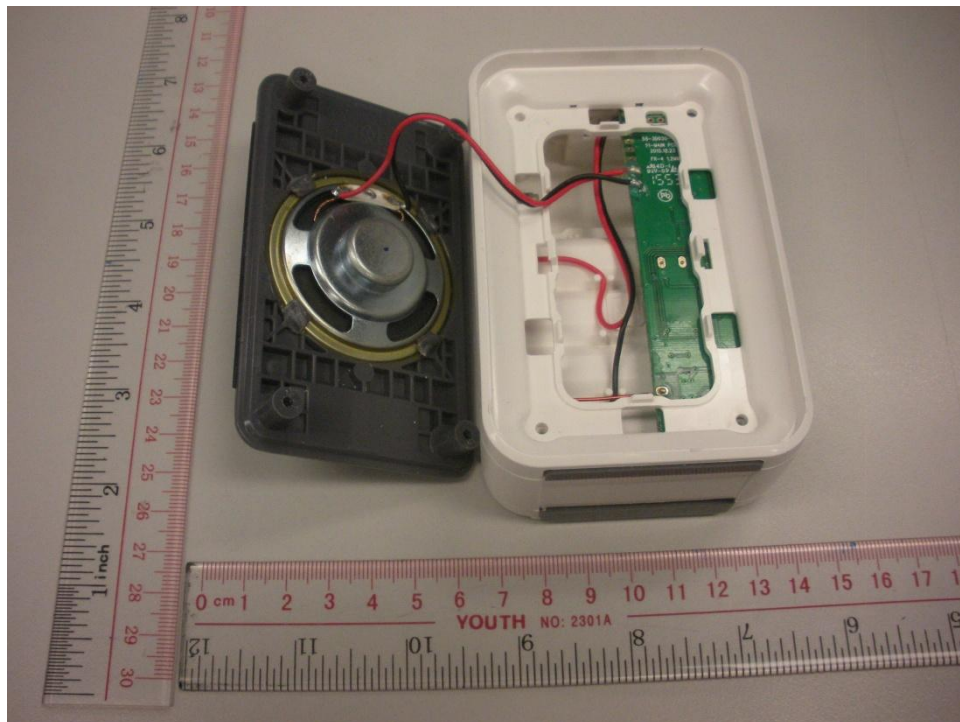
Appendix A



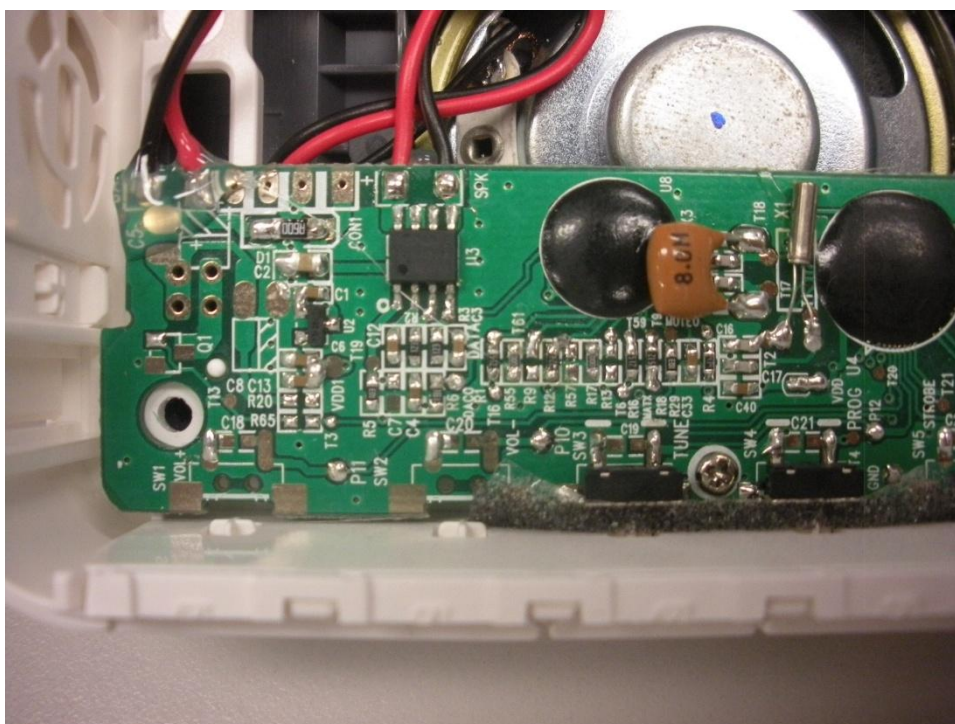
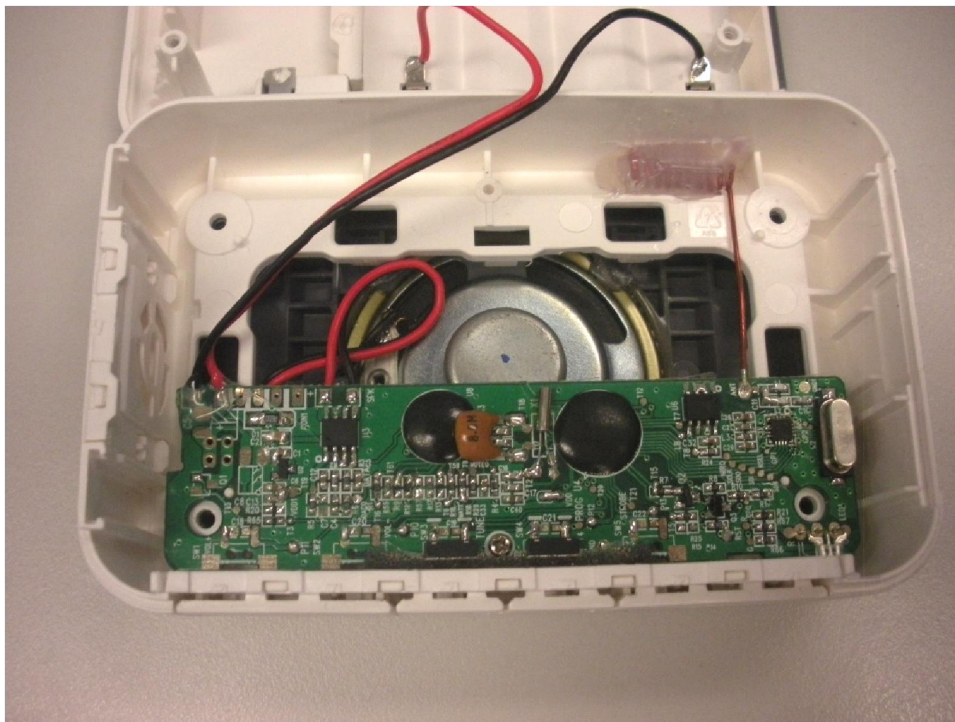
Appendix A

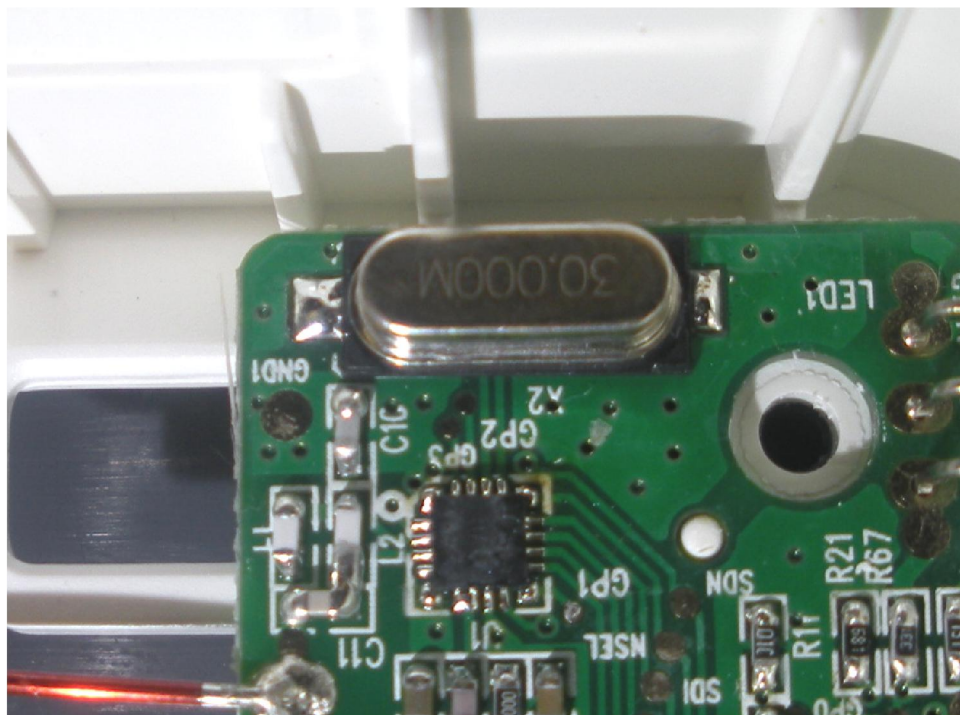


Appendix A

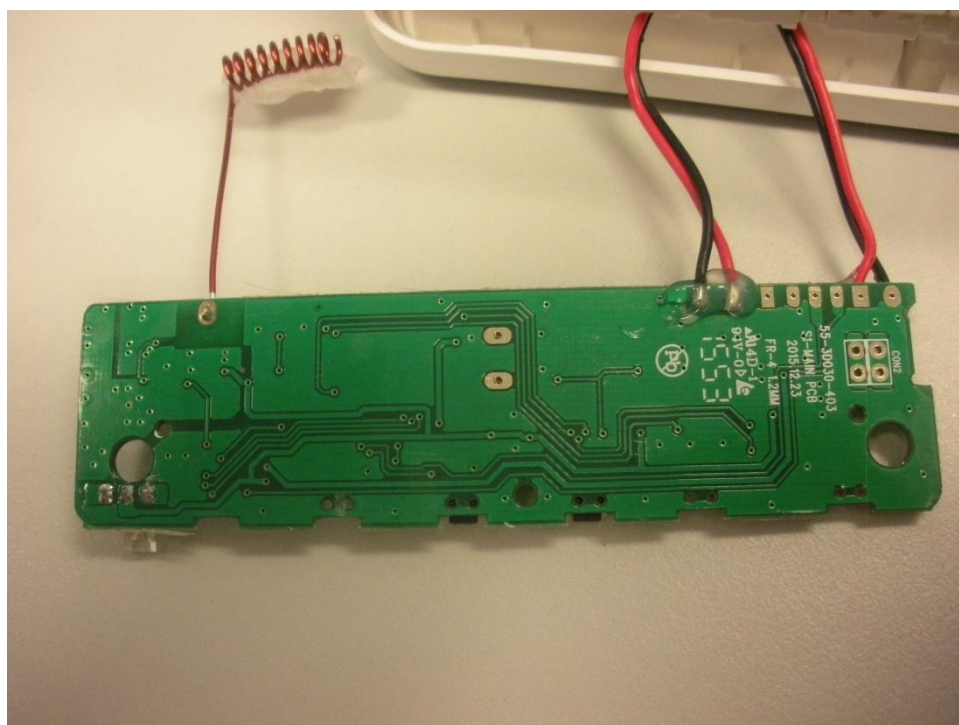
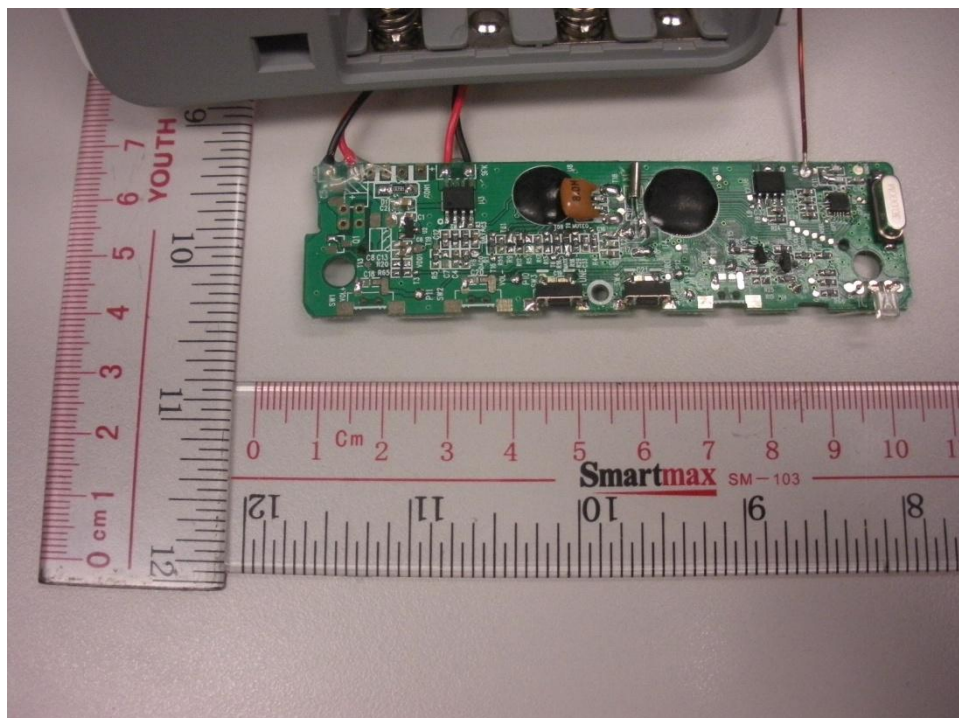


Appendix A





Appendix A



9 Appendix B - Setup Photographs of EUT

Radiated Emission

