

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

TÜV SÜD HONG KONG LTD. is a subcontractor to TÜV SÜD Product Service GmbH according to the principles outlined in ISO 17025. TÜV SÜD HONG KONG LTD. reports apply only to the specific samples tested under stated test conditions. Construction of the actual test samples has been documented. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. The manufacturer/importer is responsible to the Competent Authorities in Europe for any modifications made to the production units which result in non-compliance to the relevant regulations TÜV SÜD HONG KONG LTD. shall have no liability for any deductions, inferences or generalizations drawn by the client or others from TÜV SÜD HONG KONG LTD. issued reports. This report is the confidential property of the client. As a mutual protection to our clients, the public and ourselves, extracts from the test report shall not be reproduced except in full without our written approval.

1 Table of Contents

1 Table of Contents.....	2
2 Description of Equipment Under Test	3
3 Summary of Test Standards	4
4 Details about the Test Laboratory	5
4.1 Test Equipment Site List.....	6
4.2 Measurement System Uncertainty	7
5 Summary of Test Results.....	8
6 General Remarks.....	9
7 Emission Test Results	10
7.1 Radiated Emission.....	10
8 Appendix A - Photographs of EUT	12
9 Appendix B - Setup Photographs of EUT.....	19

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

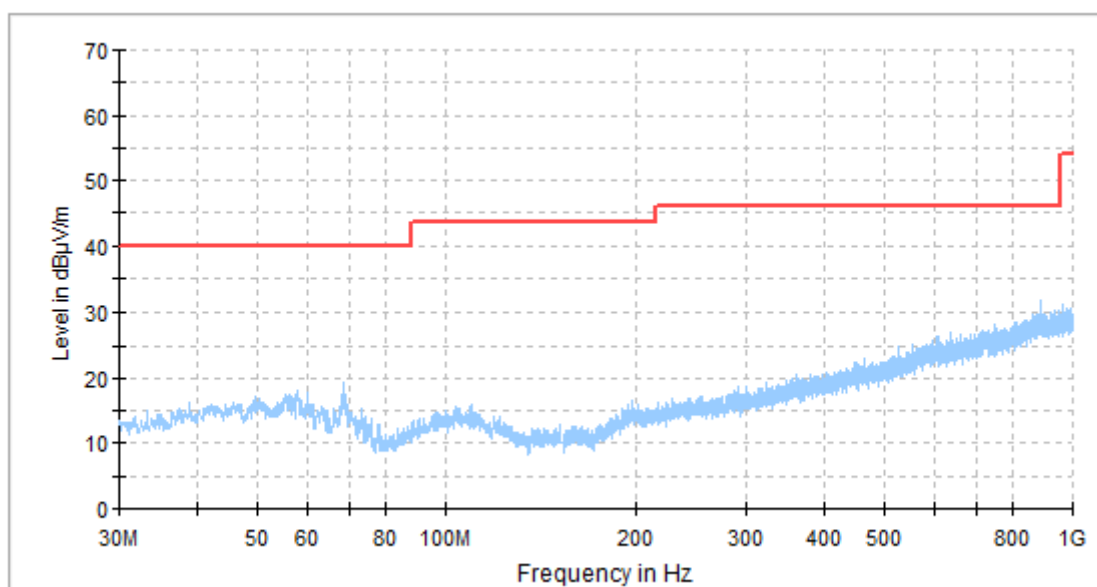
7 Emission Test Results

7.1 Radiated Emission

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

Test Result

☒ Passed

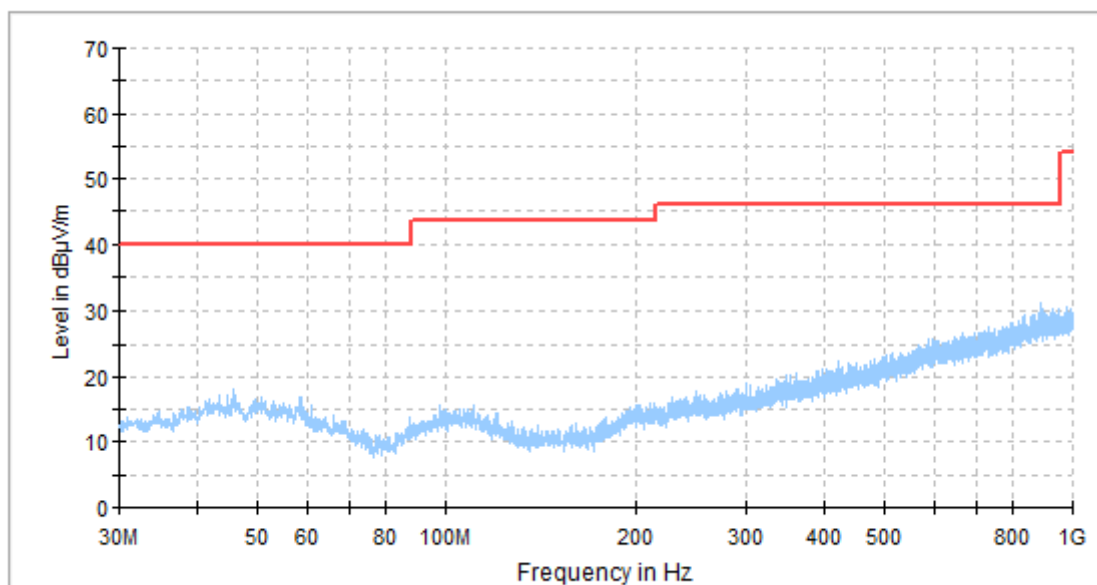
☐ Not Passed


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

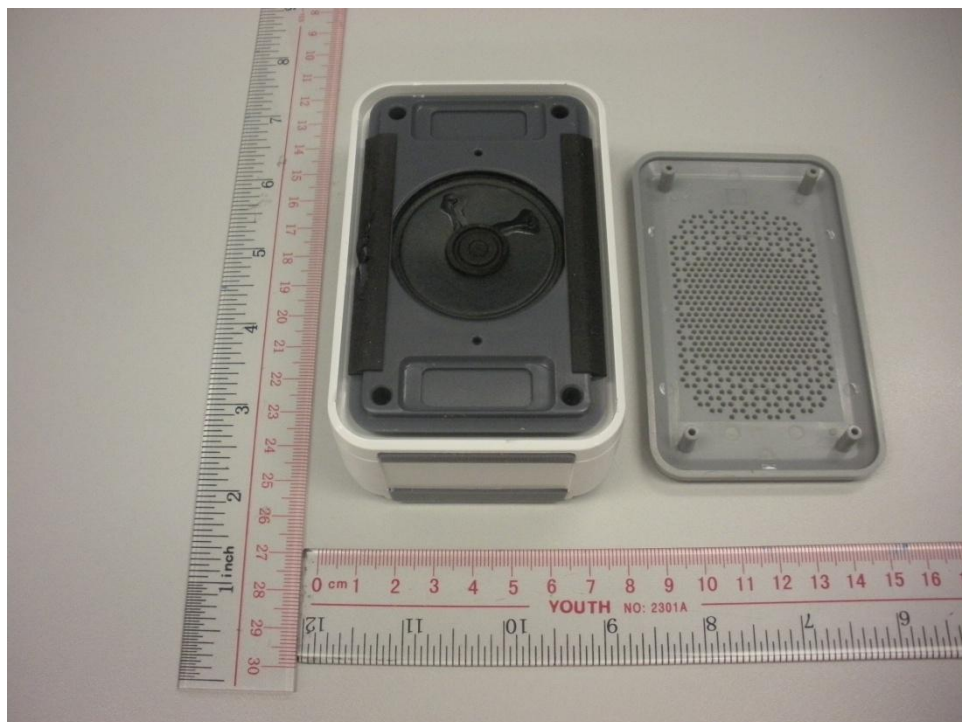
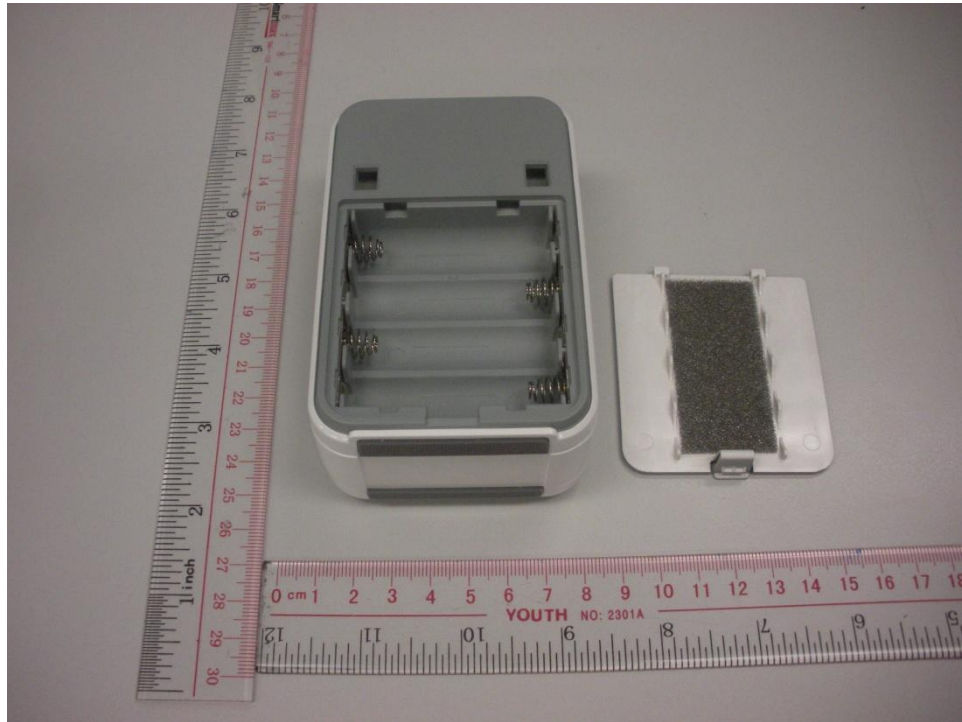
8 Appendix A - Photographs of EUT



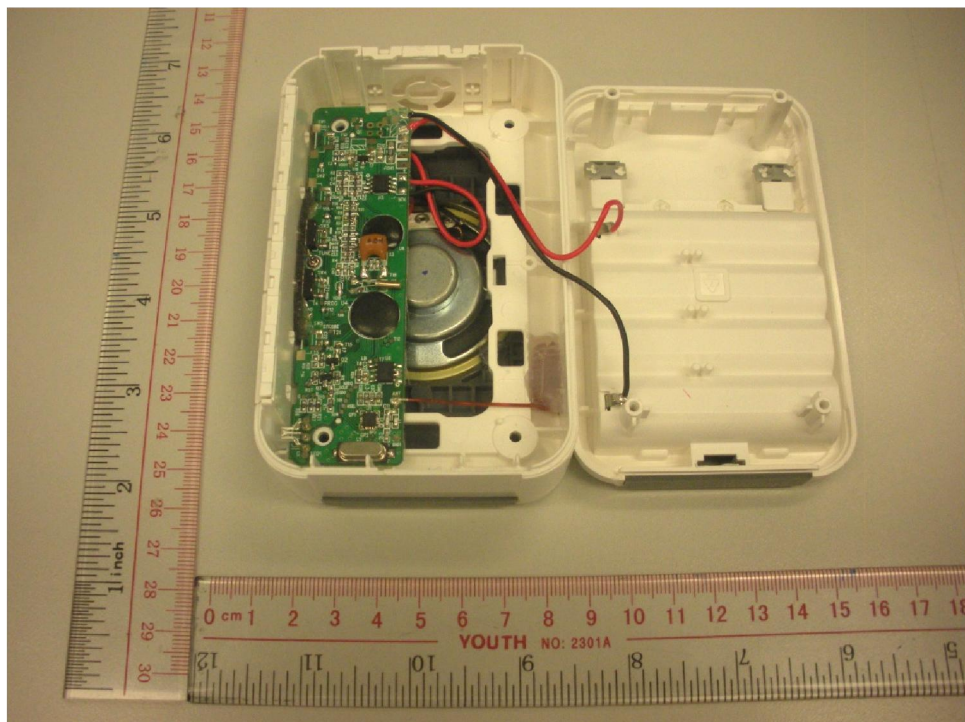
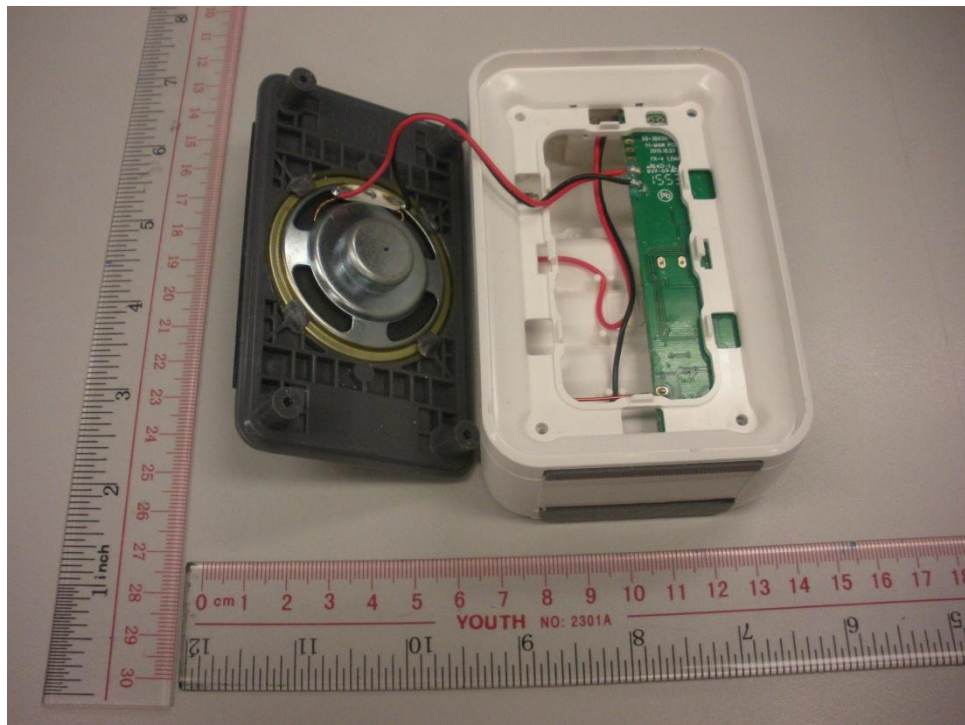
Appendix A



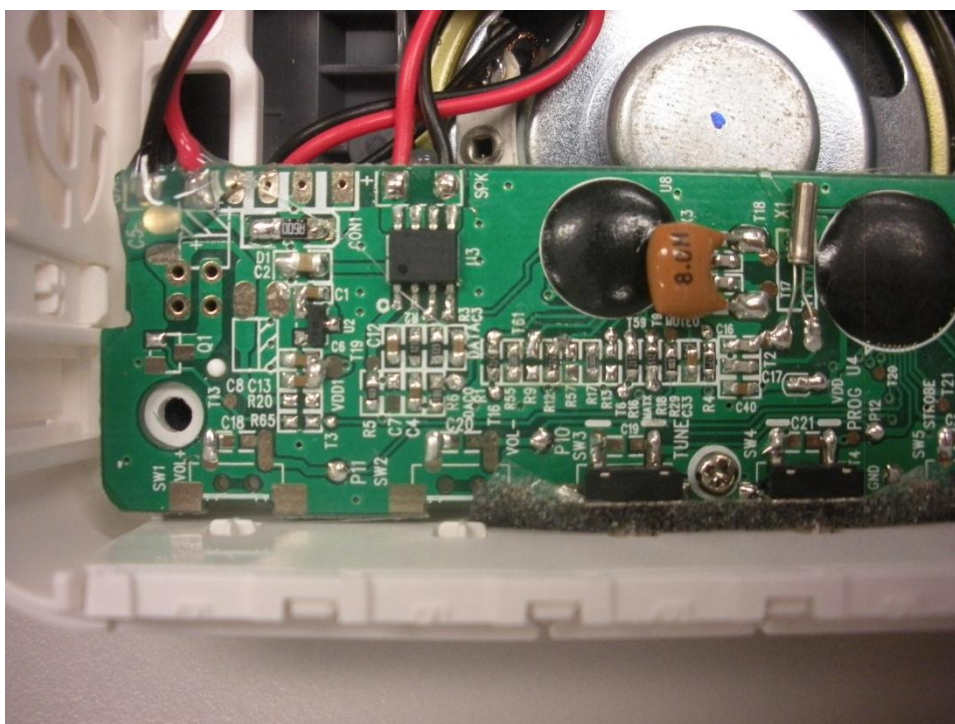
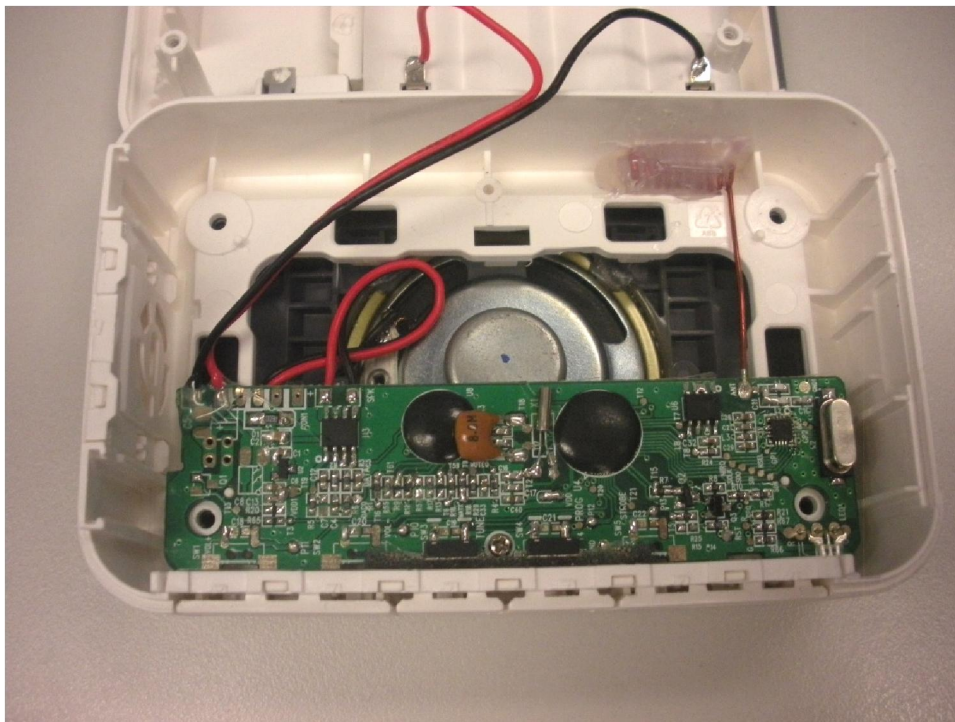
Appendix A



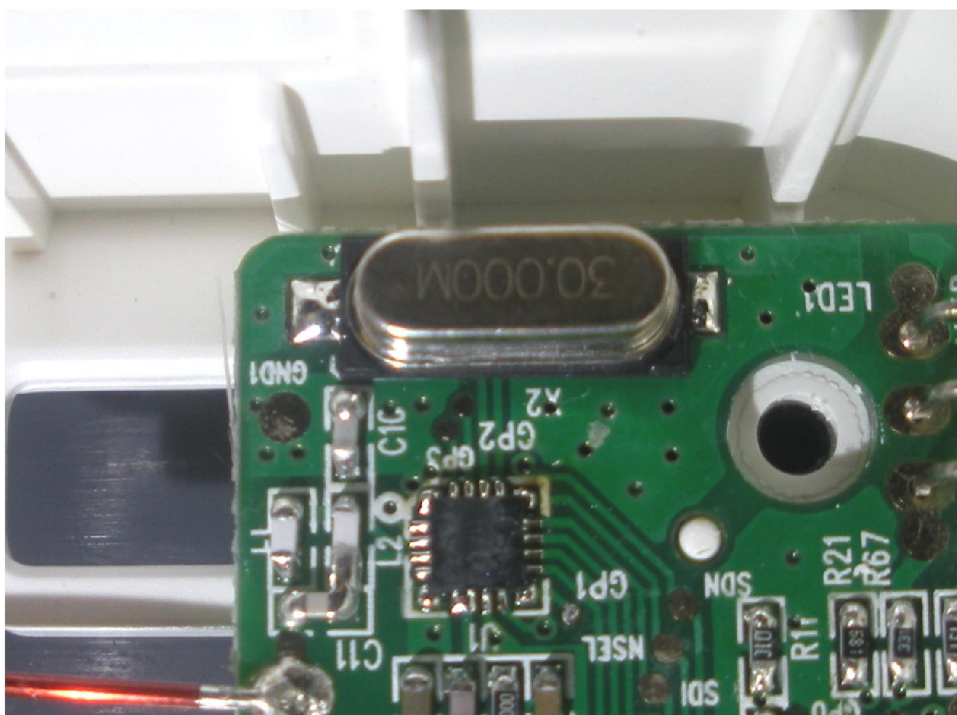
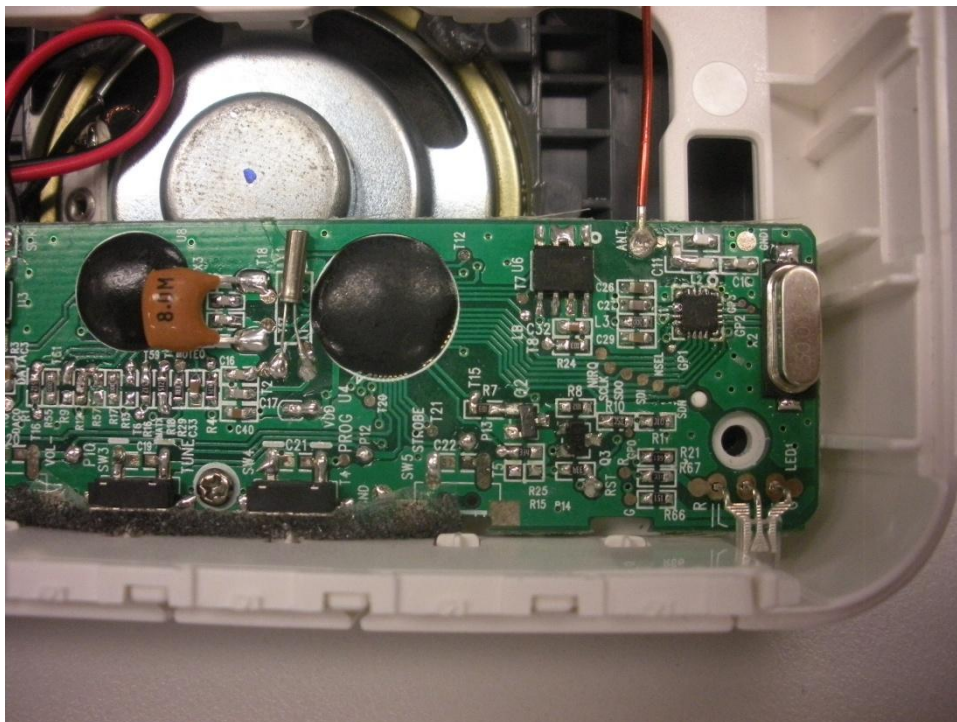
Appendix A



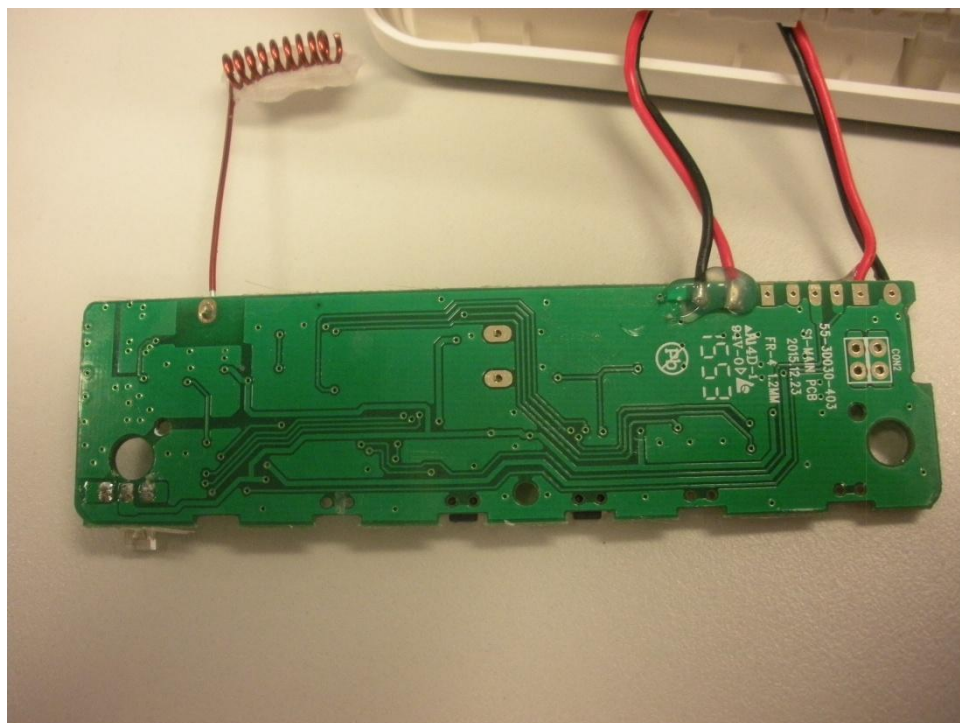
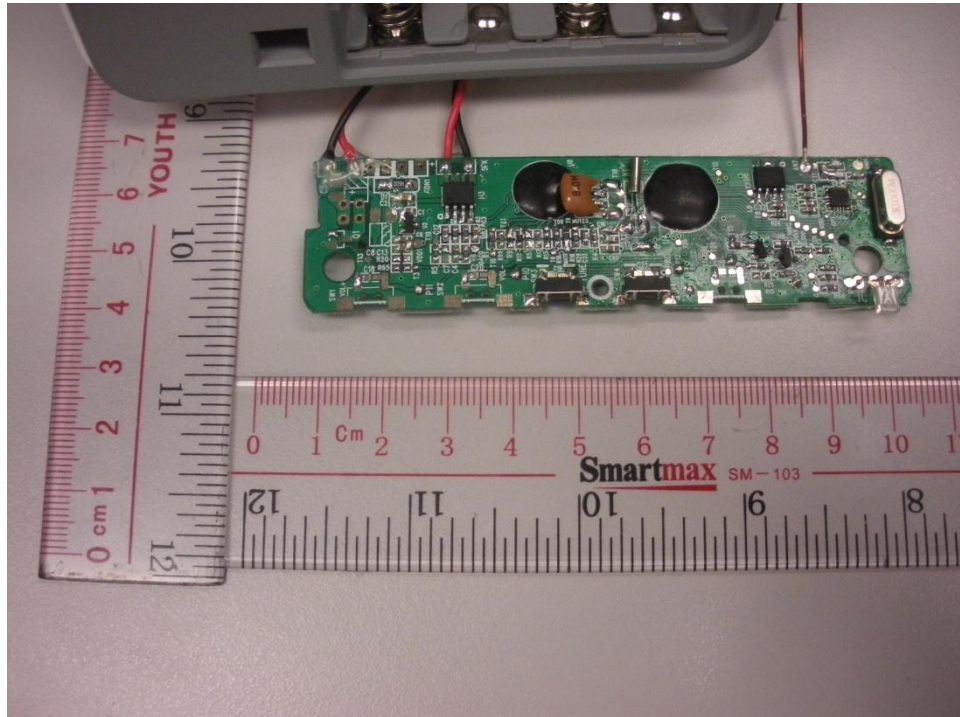
Appendix A



Appendix A



Appendix A



9 Appendix B - Setup Photographs of EUT

Radiated Emission

