



Test Report

Applicant: EU3C Company Limited

Address of Applicant: Unit 7, 8/F., Austin Tower, 22-26 Austin Avenue, Tsim Sha Tsui, Kowloon, Hong Kong

Equipment Under Test (EUT):

EUT Name: ComboScan I

Model No.: SCND503T1231

Serial No.: Not supplied by client

Standards: FCC PART15 SUBPART B: 2007

Date of Receipt: May 20, 2010

Date of Test: May 20, 2010 –May 21, 2010

Date of Issue: May 30, 2010

Test Result : **PASS***

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:


Henly.xie / Manager

This report refers to the General Conditions for Inspection and Testing Services, printed overleaf

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

All test results in this report can be traceable to National or International Standards.

The test report prepare by:

Guangzhou Huesent Testing Service Co.,Ltd.

No.91, Dongguanzhuang Road,Guangzhou,China.

Tel: 86-20-28263298 Fax: 86-20-28263237 <http://www.hst.org.cn> E-mail:hst@hst.org.cn



2. Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Radiated Emission (30MHz to 1GHz)	FCC PART 15, SUBPART B: 2007	ANSI C63.4:2003	Class B	PASS
Conducted Emission (150KHz to 30MHz)	FCC PART 15, SUBPART B: 2007	ANSI C63.4:2003	Class B	PASS



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4. General Information

4.1 Client Information

Applicant: EU3C Company Limited
Address of Applicant: Unit 7, 8/F., Austin Tower, 22-26 Austin Avenue, Tsim Sha Tsui, Kowloon, Hong Kong

4.2 General Description of E.U.T.

EUT Name: ComboScan I
Trade Name: EU3C
Item No.: See the model number shown on cover page.
Serial No.: Not supplied by client

4.3 Details of E.U.T.

Power Supply: Via USB cable to the PC host
Power Cord: 1.12 m USB cable with a core
CPU Operation frequency: 32.768kHz, 12MHz, and they are used as crystals in the PCB

4.4 Description of Support Units

Samsung's Notebook (model: R463; Li Shin international enterprise corp.'s adapter: model: 0455A1990 AD-9019S, input: 100-240VAC1.5A, 50-60Hz, output: 10VDC4.74A).

4.5 Standards Applicable for Testing

The standard used was FCC PART 15, SUBPART B, CLASS B 2007

4.6 Test Location

Huesent Testing Service Ltd.
No. 91, Dongguanzhuang Road, Guangzhou City, Guangdong Province, P.R. China
Tel: 86-20-28263298 Fax: 86-20-28263237

All tests were witness tested in the laboratory following: CEPREI (headquarters) lab.
No.110, Dongguanzhuang Road, Tianhe District, Guangzhou city, Guangdong Province,
P.R. China
Tel: 86-20-87237178 Fax: 86-20-87236171 Email: emc@ceprei.biz
FCC- Registration No: 258518 on Mar 25, 2005

Test by Jietao Yan of CEPREI, the signature of representative of CEPREI:

4.8 Deviation from Standards

None.

4.9 Abnormalities from Standard Conditions

None.



5. Equipments Used during Test

No.	Test item.	Name of Equipment's	Model/Type	Last Calibrated Date
1	CE	EMI Receiver	R&S ESCS 30	2009-6-8
2	CE	LISN	R&S ESH3-Z5	2009-6-8
3	CE	Shielding Room	DG ZongZhou 5x3x3 m	2009-6-8
4	RE	EMI Receiver	R&S ESCS 30	2009-6-8
5	RE	Anechoic Chamber	Lindgren FACT-4	2009-6-8
6	RE	Antenna	SCHAFFNER CBL6112B	2009-6-8

Note:
/



6. Test Results

6.1 Conducted Emissions Mains Terminals, 150 kHz to 30MHz

Test Requirement: FCC Part 15 B
Test Method: ANSI C63.4
Class / Severity: Class B
Detector: Peak for pre-scan (9kHz Resolution Bandwidth)
Quasi-Peak if maximised peak within 6dB of Quasi-Peak limit
Test Date: May 20, 2010

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.0°C Humidity: 60% RH Atmospheric Pressure: 103.0kPa

EUT Operation:

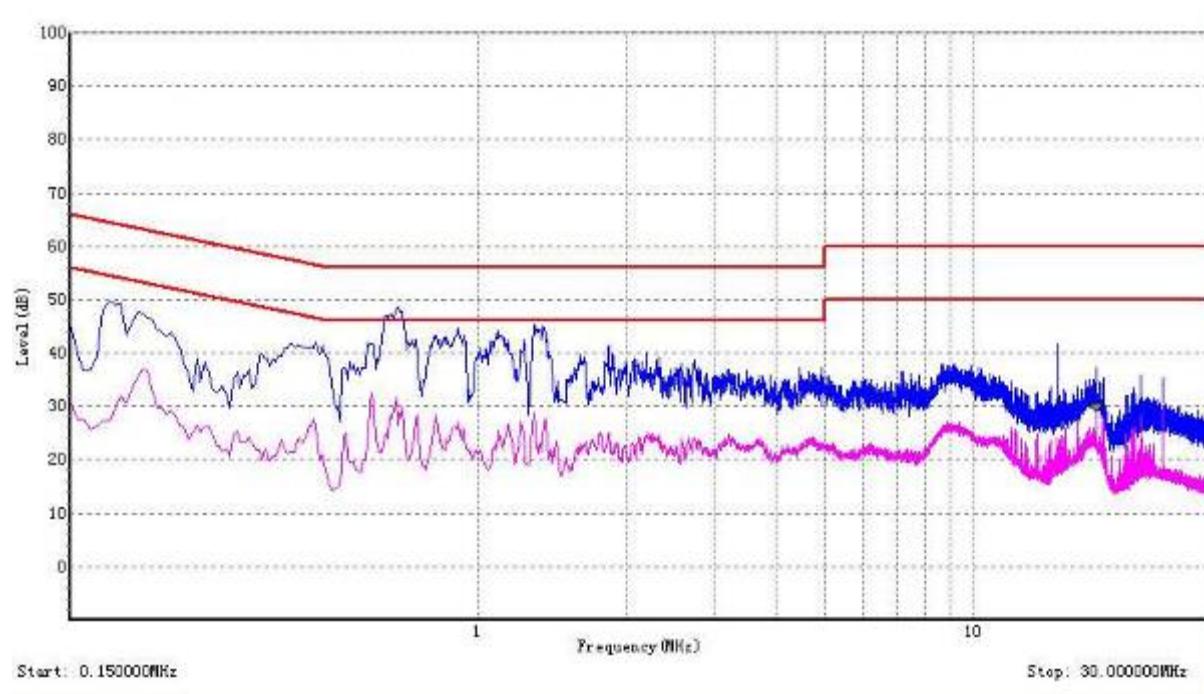
1. Connect the EUT via an USB cable to a Notebook in 120VAC/60Hz.
2. Pre-test the EUT work normally in three modes: previewing/ scanning/ transmit data, then select the worst case: scanning mode to measure during the whole test.

6.1.2 Plan View of Test Setup

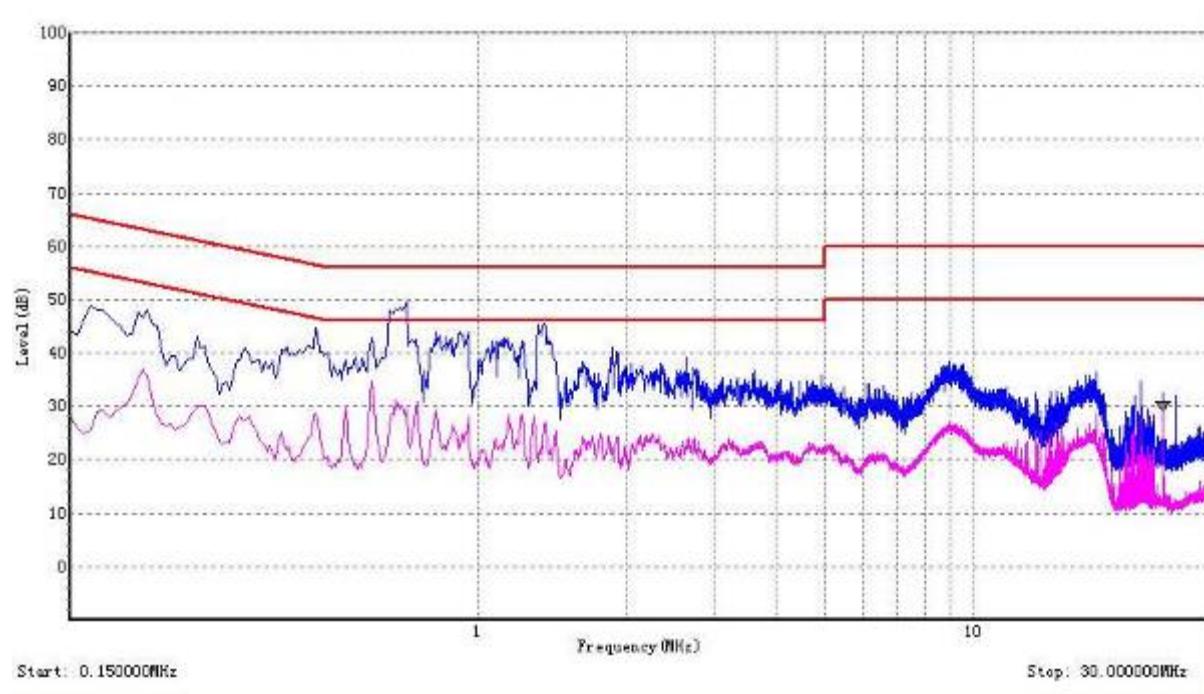
6.1.3 Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized emission were detected when Peak measurement level is over Average Limit.

**Live Line****Peak Scan****Quasi-peak and Average measurement**

Freq. (MHz)	Line	QP (dB μ V)	Transd ucer (dB)	QP limit (dB μ V)	Margin (dB)	AV (dB μ V)	Transd ucer (dB)	AV limit (dB μ V)	Margin (dB)
0.210	Live	47.39	11.28	63.25	15.86	37.08	11.28	53.25	16.17
0.455	Live	40.86	9.90	56.87	16.01	26.37	9.90	46.87	20.50
0.610	Live	41.67	9.70	56	14.33	32.70	9.70	46	13.30
3.200	Live	34.64	8.98	56	21.36	24.95	8.98	46	21.05
9.355	Live	36.29	8.72	60	23.71	26.25	8.72	50	23.75
17.70	Live	37.35	9.98	60	22.65	29.70	9.98	50	20.30

**Neutral Line****Peak Scan****Quasi-peak and Average measurement**

Freq. (MHz)	Line	QP (dB μ V)	Transd ucer (dB)	QP limit (dB μ V)	Margin (dB)	AV (dB μ V)	Transd ucer (dB)	AV limit (dB μ V)	Margin (dB)
0.210	Neutral	46.62	11.28	63.25	16.63	36.86	11.28	53.25	16.39
0.345	Neutral	39.76	10.23	59.18	19.42	28.02	10.23	49.18	21.16
0.750	Neutral	40.06	9.60	56	15.94	30.90	9.60	46	15.10
2.245	Neutral	35.98	9.17	56	20.02	24.74	9.17	46	21.26
8.880	Neutral	35.87	8.66	60	24.13	26.95	8.66	50	23.05
24.02	Neutral	32.56	11.35	60	27.44	30.17	11.35	50	19.83

6.2 Radiated Emissions, 30MHz to 1GHz

Test Requirement: FCC Part15 B
Test Method: ANSI C63.4
Class: Class B
Detector: Peak for pre-scan (120kHz resolution bandwidth)
Quasi-Peak if maximised peak within 6dB of limit
Test Date: May 20, 2010

6.2.1 E.U.T. Operation

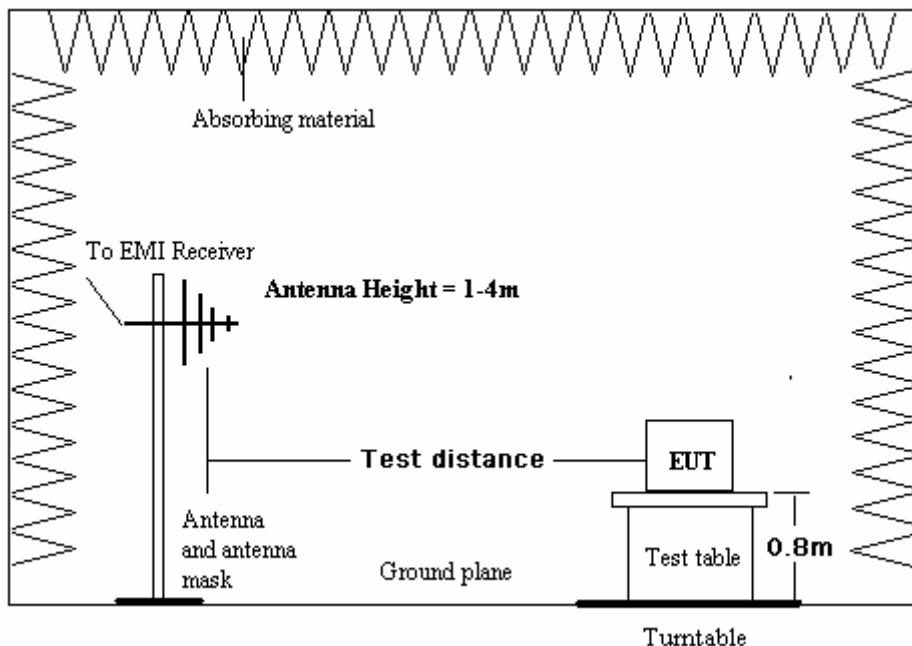
Operating Environment:

Temperature: 20°C Humidity:60% RH Atmospheric Pressure: 103.0kPa

EUT Operation:

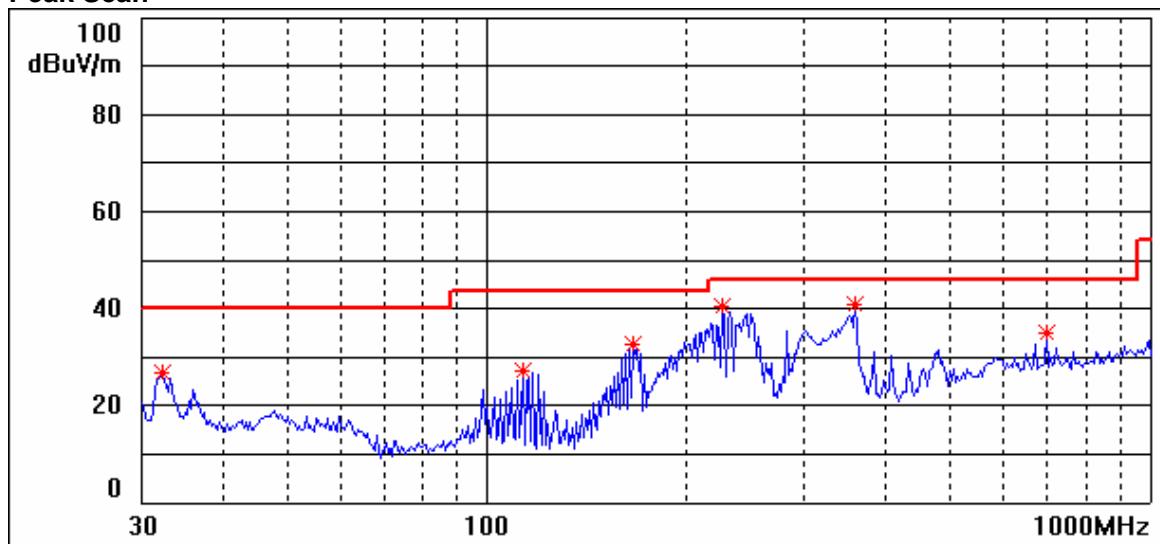
1. Connect the EUT via an USB cable to a Notebook in 120VAC/60Hz.
2. Pre-test the EUT work normally in three modes: previewing/ scanning/ transmit data, then select the worst cases: scanning mode and transmit data with PC host for final measurement during the whole test.

6.2.2 Test Setup



6.2.3 Measurement Data

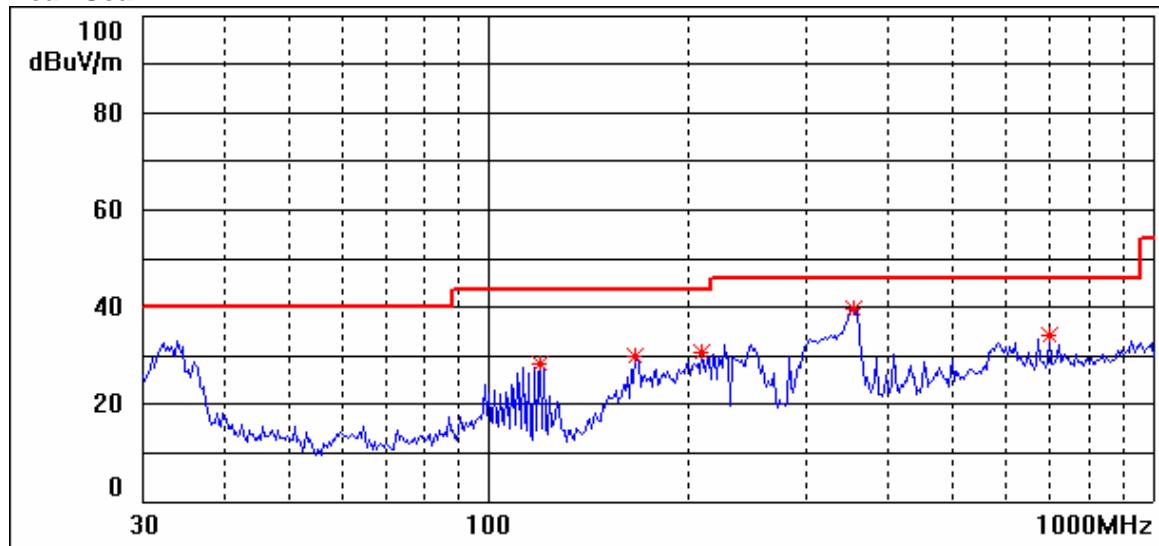
An initial pre-scan was performed in the 3m chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bilog antenna with 2 orthogonal polarities

Horizontal**Peak Scan****Quasi-peak measurement**

Frequency MHz	Level dBuV/m	Transducer dB	Limit dBuV/m	Margin dB
32.4	26.6	17.1	40	13.4
112.9	27.3	9.8	43.5	16.2
166.3	32.8	11.2	43.5	10.7
225.9	40.4	13.3	46	5.6
360.0	40.6	17.9	46	5.4
696.0	35.0	25.0	46	11.0

Note:

The transducer factor includes antenna factor and cable loss.

Vertical**Peak Scan****Quasi-peak measurement**

Frequency MHz	Level dBuV/m	Transducer dB	Limit dBuV/m	Margin dB
32.4	28.9	17.1	40	11.1
119.1	28.1	9.3	43.5	15.4
166.0	30.0	11.2	43.5	13.5
208.4	30.6	12.4	43.5	12.9
353.2	39.7	17.7	46	6.3
696.0	34.3	25.0	46	11.8

Note:

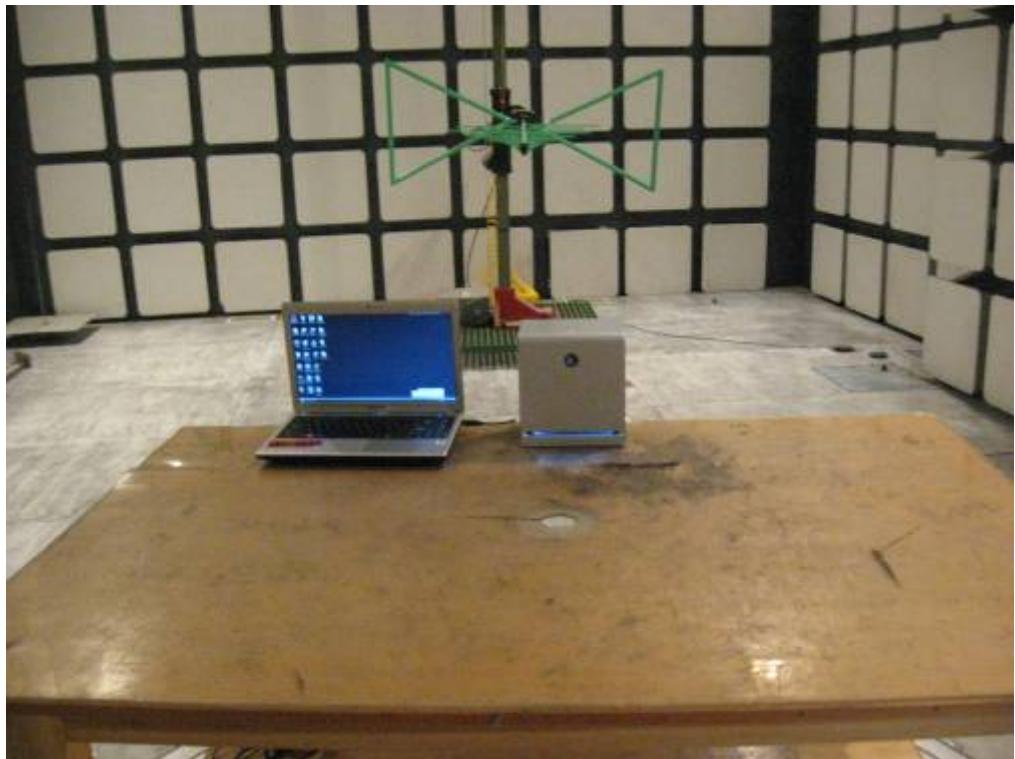
The transducer factor includes antenna factor and cable loss.

7. Photographs

7.1 Conducted Emission Test Setup



7.2 Radiated Emission Test Setup



7.3 EUT Constructional Details



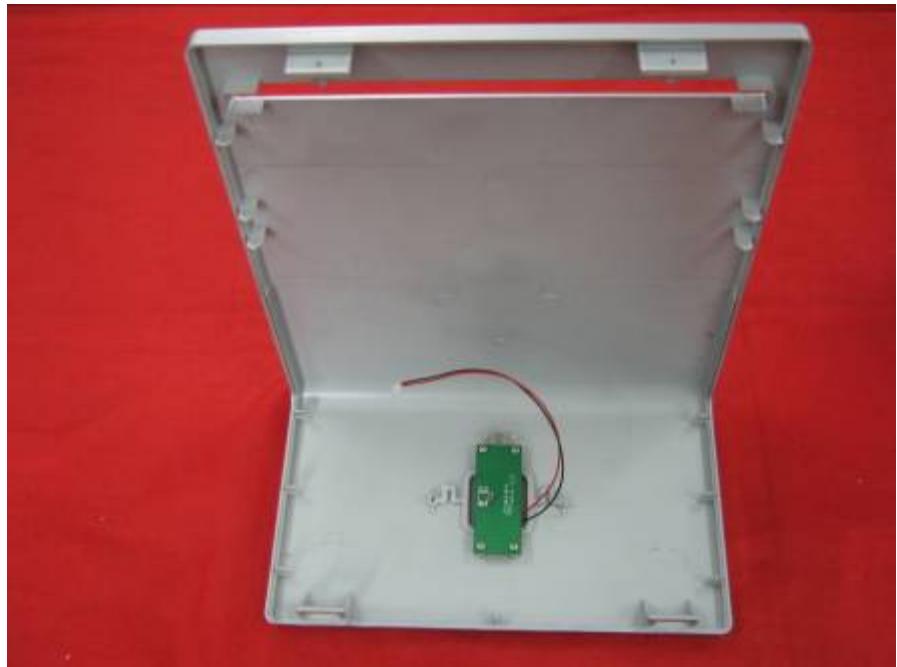


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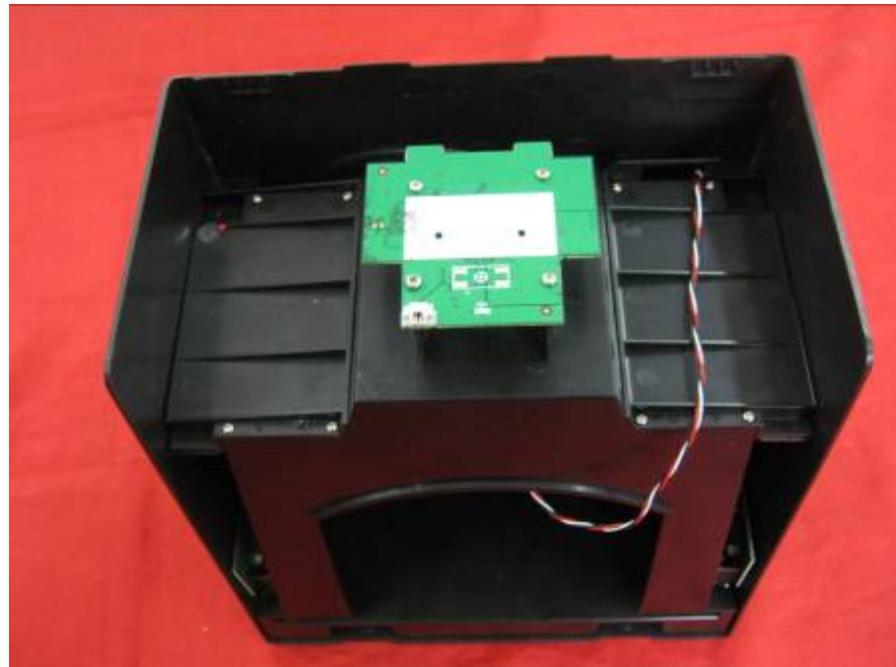


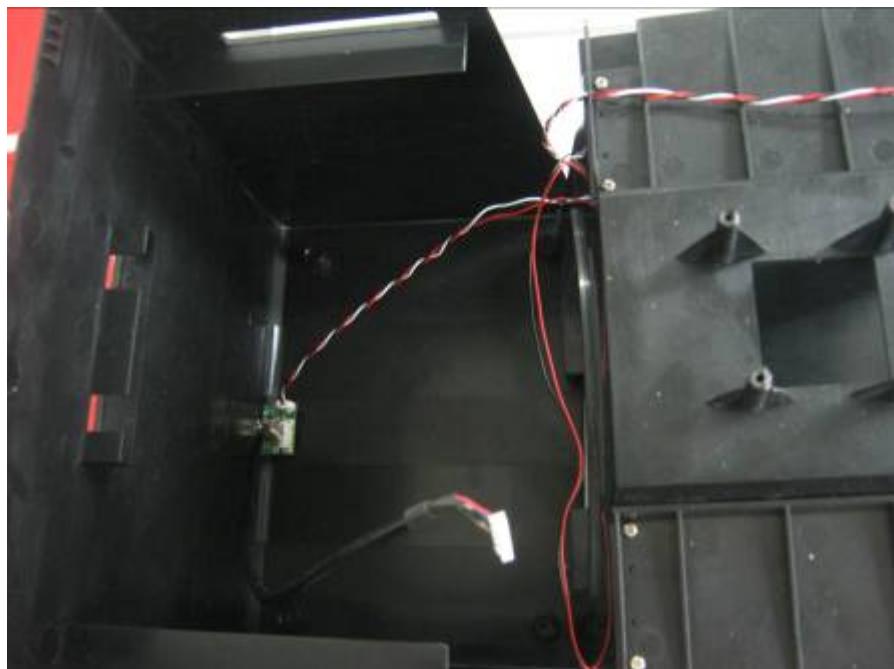
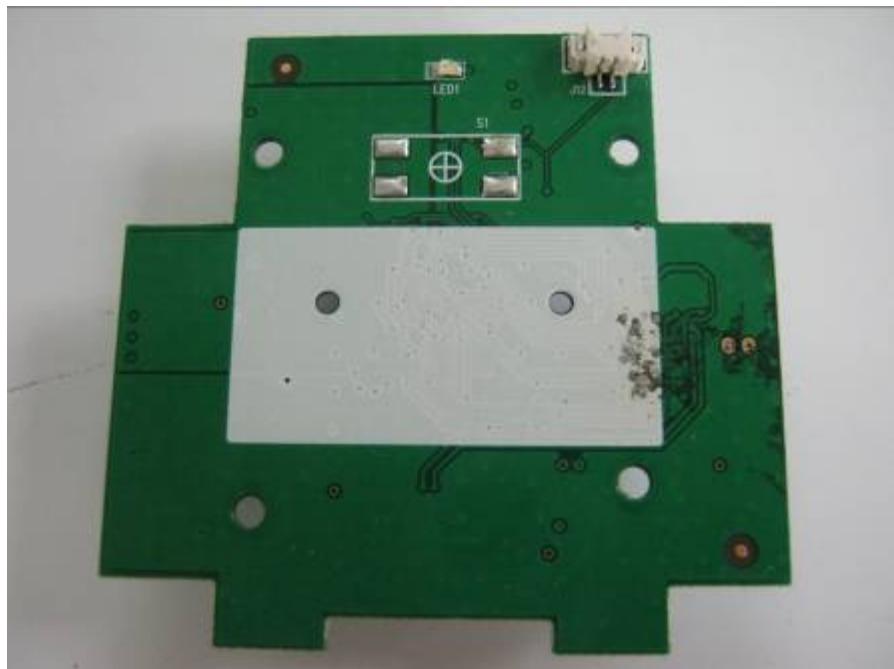
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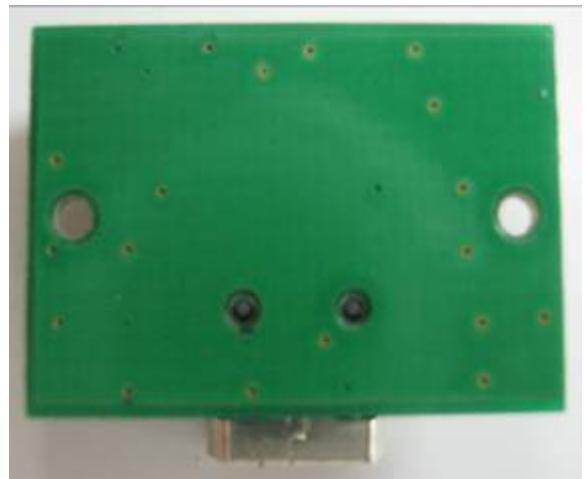
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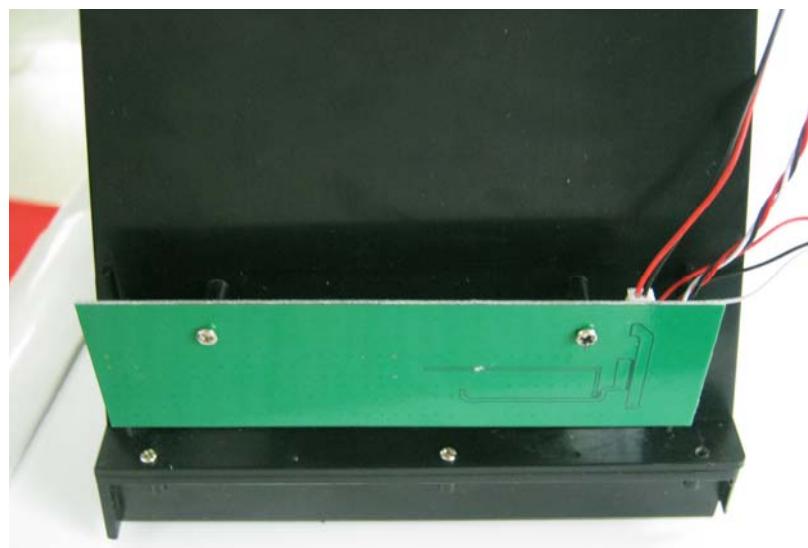


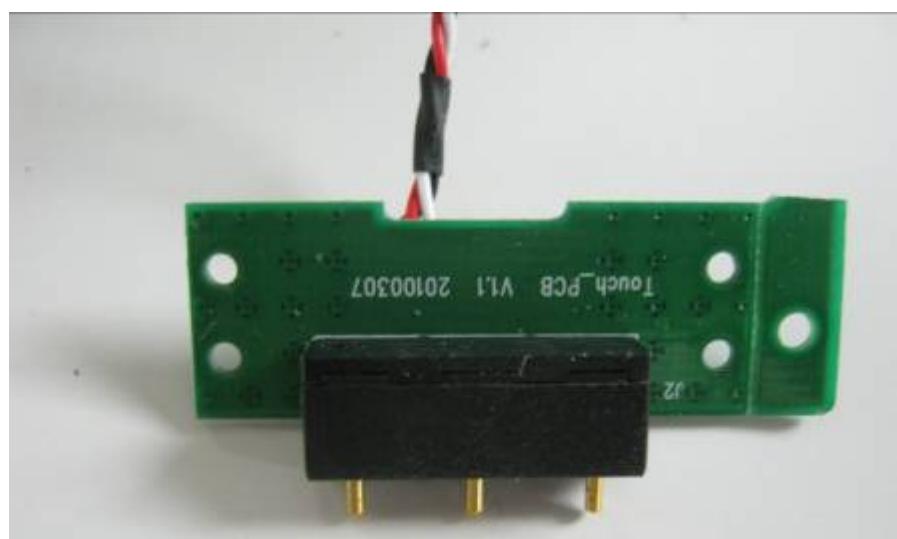
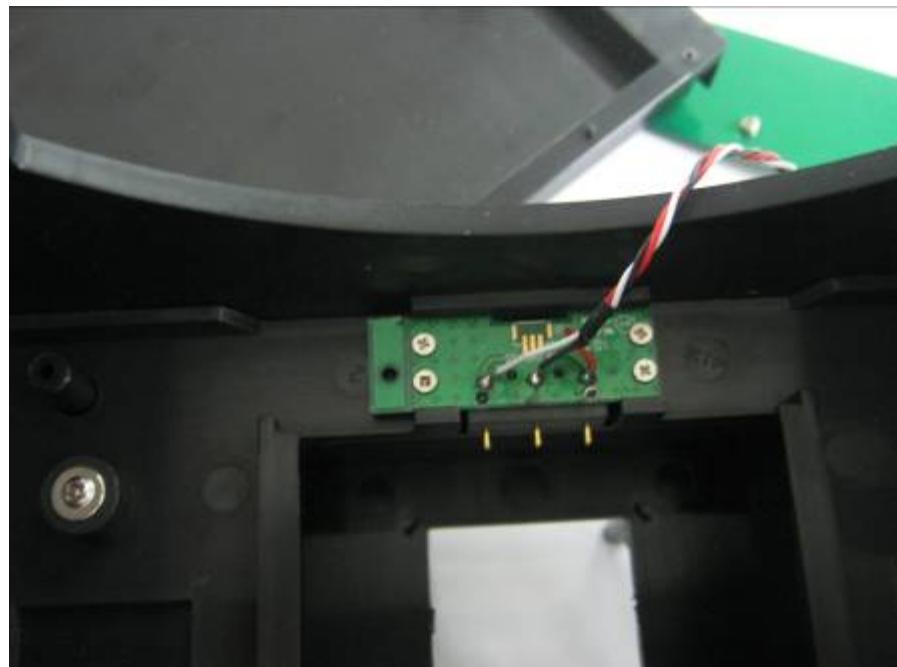




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