



Test Report

Applicant: EU3C Company Limited
Address of Applicant: Unit 7, 8/F., Austin Tower, 22-26 Austin Avenue, Tsim Sha Tsui, Kowloon, HongKong
Equipment Under Test (EUT):
EUT Name: FS-II-5M
Model No.: SCND502B1232
Serial No.: Not supplied by client
Standards: FCC PART15 SUBPART B: 2007
Date of Receipt: Mar. 25, 2011
Date of Test: Mar. 25, 2011 – Mar. 31, 2011
Date of Issue: Apr. 6, 2011
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, Dongguanhuang 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, HongKong

4.2 General Description of E.U.T.

EUT Name: FS-II-5M
Trade Name: N/A
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: AC/DC adapter, manufactory: MLF; model: MLF-005W0501000-U; input: 100-240VAC, 50/60Hz, 250mA; output: 5VDC/1000mA.
Power Cord: 1.10 m USB cable with a core, 2.90 m Video cable with a core.

4.4 Description of Support Units

HP's Notebook (model: EliteBook 2740P, HP's adapter: model: PPP009L-E, input: 100-240VAC1.6A, 50-60Hz, output: 18.5VDC3.5A) or Qinghuatongfang 20" LCD TV (model: LC-20B82).

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 subcontract to 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

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	2010-6-8
2	CE	LISN	R&S ESH3-Z5	2010-6-8
3	CE	Shielding Room	DG ZongZhou 5x3x3 m	2010-6-8
4	RE	EMI Receiver	R&S ESCS 30	2010-6-8
5	RE	Anechoic Chamber	Lindgren FACT-4	2010-6-8
6	RE	Antenna	SCHAFFNER CBL6112B	2010-6-8

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: Mar. 28, 2011

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.0°C Humidity: 50% RH Atmospheric Pressure: 103.0kPa

EUT Operation:

1. Connect the EUT via an USB cable to an AC/DC adapter or 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.

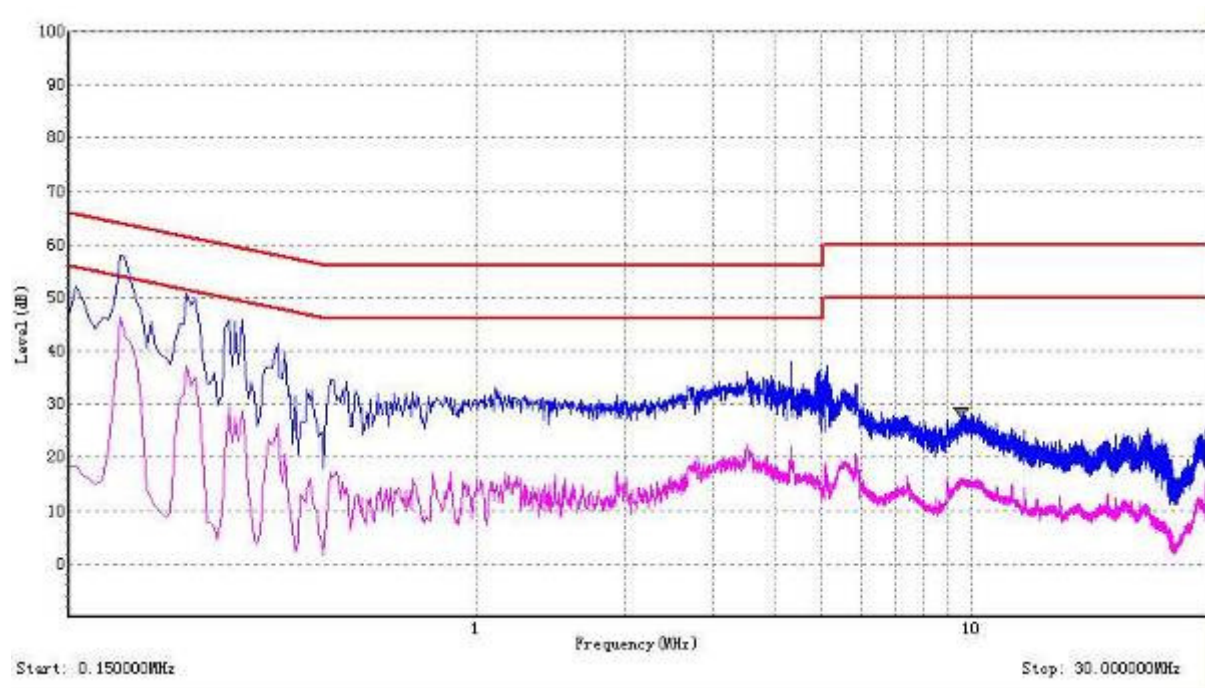
6.1.2 Plan View of Test Setup

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, Mode: Transmitting Data with Notebook

Peak Scan

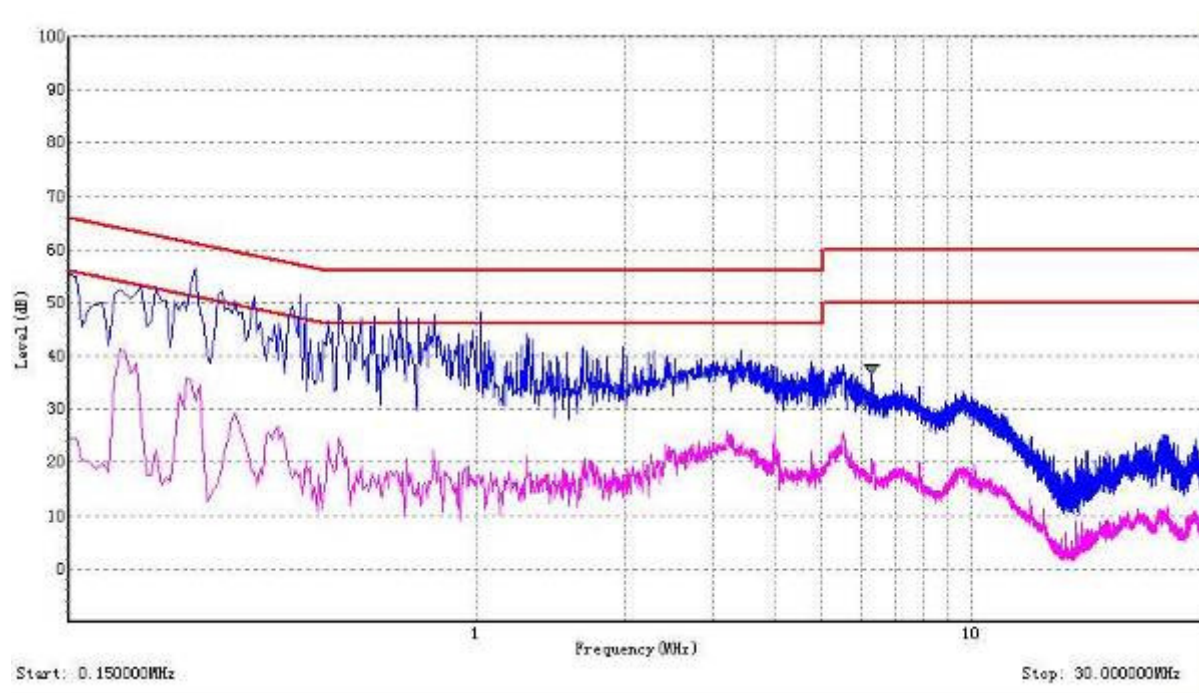


Quasi-peak and Average measurement

Freq. (MHz)	Line	QP (dBμV)	Transducer (dB)	QP limit (dBμV)	Margin (dB)	AV (dBμV)	Transducer (dB)	AV limit (dBμV)	Margin (dB)
0.190	Live	58.07	4.45	64.13	6.06	46.38	4.45	54.13	7.75
0.260	Live	50.76	4.22	61.49	10.73	37.38	4.22	51.49	14.11
0.515	Live	34.53	4.09	56.00	21.47	16.56	4.09	46.00	29.44
4.295	Live	38.10	3.92	56.00	17.90	21.11	3.92	46.00	24.89
5.095	Live	37.19	3.90	60.00	22.81	16.85	3.90	50.00	33.15
9.515	Live	28.44	3.76	60.00	31.56	15.91	3.76	50.00	34.09

Neutral Line, Mode: Transmitting Data with Notebook

Peak Scan

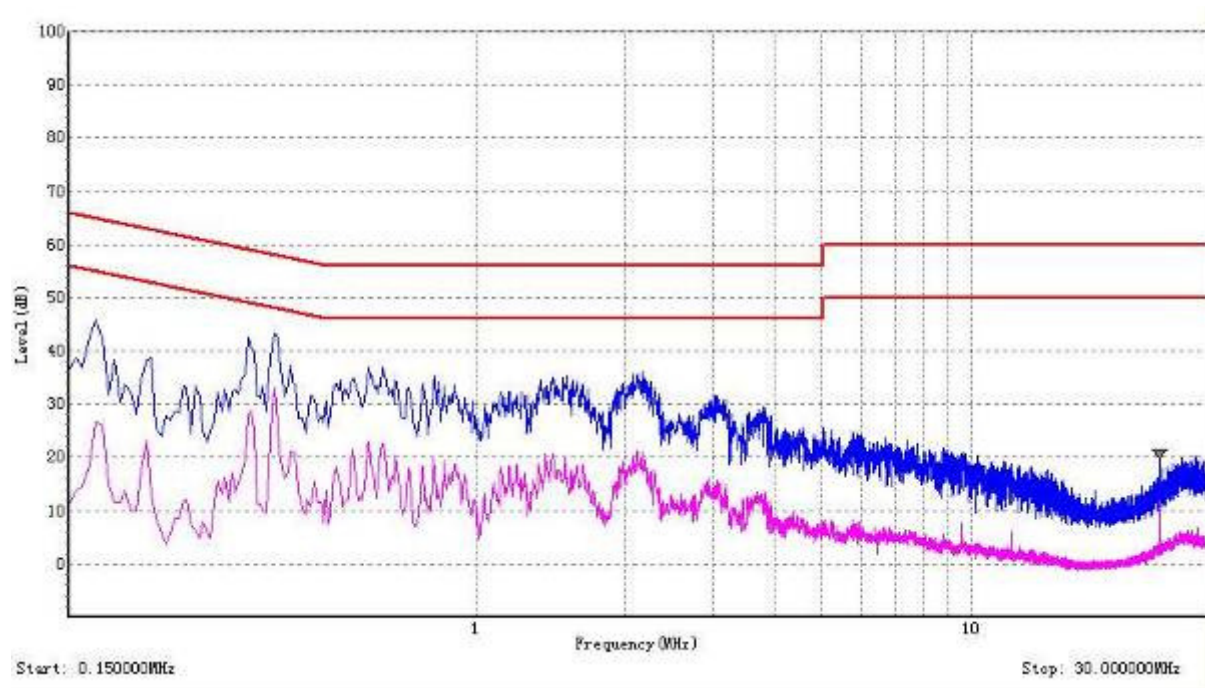


Quasi-peak and Average measurement

Freq. (MHz)	Line	QP (dBμV)	Transducer (dB)	QP limit (dBμV)	Margin (dB)	AV (dBμV)	Transducer (dB)	AV limit (dBμV)	Margin (dB)
0.190	Neutral	52.57	4.45	64.13	11.56	41.44	4.45	54.13	12.69
0.270	Neutral	56.67	4.21	61.16	4.49	31.45	4.21	51.16	19.71
0.525	Neutral	49.66	4.09	56.00	6.34	24.43	4.09	46.00	21.57
0.825	Neutral	47.77	4.06	56.00	8.23	20.14	4.06	46.00	25.86
5.520	Neutral	38.43	3.89	60.00	21.57	25.34	3.89	50.00	24.66
6.275	Neutral	37.43	3.86	60.00	22.57	20.66	3.86	50.00	29.34

Live Line, Mode: Power Supplied by Adapter and Scanning with TV

Peak Scan

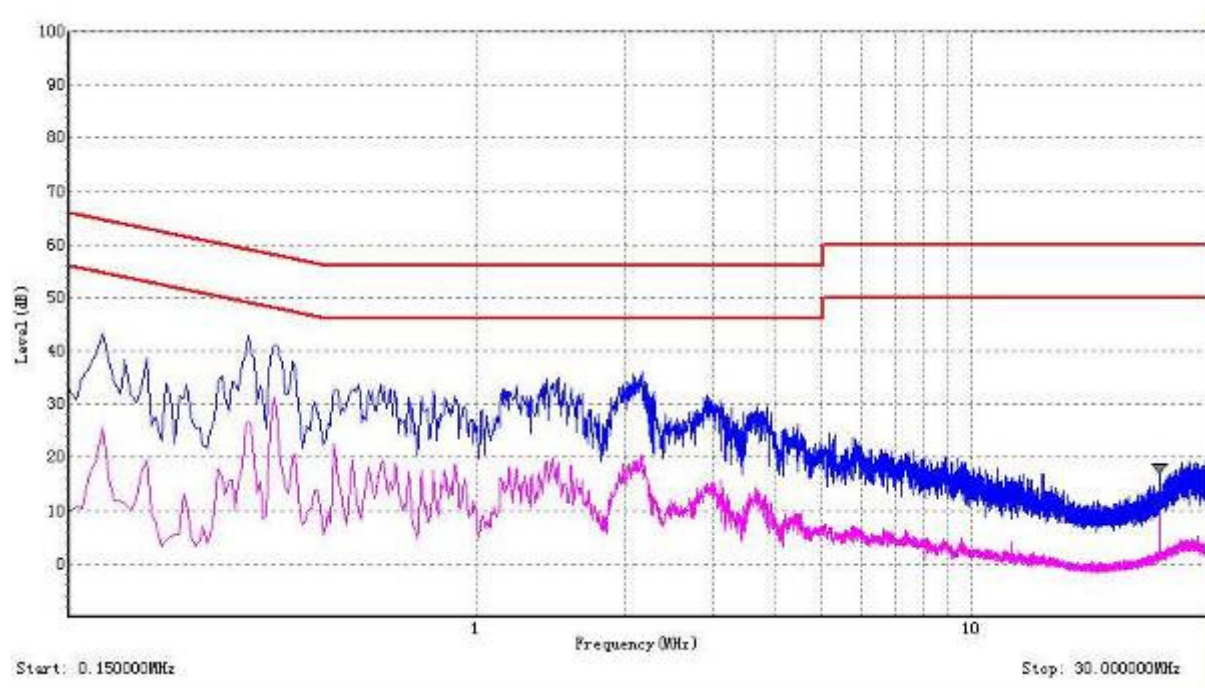


Quasi-peak and Average measurement

Freq. (MHz)	Line	QP (dBμV)	Transducer (dB)	QP limit (dBμV)	Margin (dB)	AV (dBμV)	Transducer (dB)	AV limit (dBμV)	Margin (dB)
0.170	Live	45.71	4.56	65.01	19.30	26.78	4.56	55.01	28.23
0.390	Live	43.25	4.13	58.08	14.83	33.14	4.13	48.08	14.94
0.605	Live	36.96	4.08	56.00	19.04	23.00	4.08	46.00	23.00
2.155	Live	36.23	4.00	56.00	19.77	20.90	4.00	46.00	25.10
5.755	Live	24.93	3.88	60.00	35.07	8.17	3.88	50.00	41.83
24.00	Live	20.80	3.51	60.00	39.20	11.96	3.51	50.00	38.04

Neutral Line, Mode: Power Supplied by Adapter and Scanning with TV

Peak Scan



Quasi-peak and Average measurement

Freq. (MHz)	Line	QP (dBμV)	Transducer (dB)	QP limit (dBμV)	Margin (dB)	AV (dBμV)	Transducer (dB)	AV limit (dBμV)	Margin (dB)
0.175	Neutral	43.45	4.53	64.79	21.34	25.78	4.53	54.79	29.01
0.390	Neutral	41.13	4.13	58.08	16.95	31.10	4.13	48.08	16.98
0.640	Neutral	33.67	4.07	56.00	22.33	18.33	4.07	46.00	27.67
2.155	Neutral	36.03	4.00	56.00	19.97	20.49	4.00	46.00	25.51
5.130	Neutral	24.66	3.90	60.00	35.34	6.58	3.90	50.00	43.42
24.00	Neutral	17.82	3.51	60.00	42.18	9.71	3.51	50.00	40.29

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: Mar. 28, 2011

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20°C

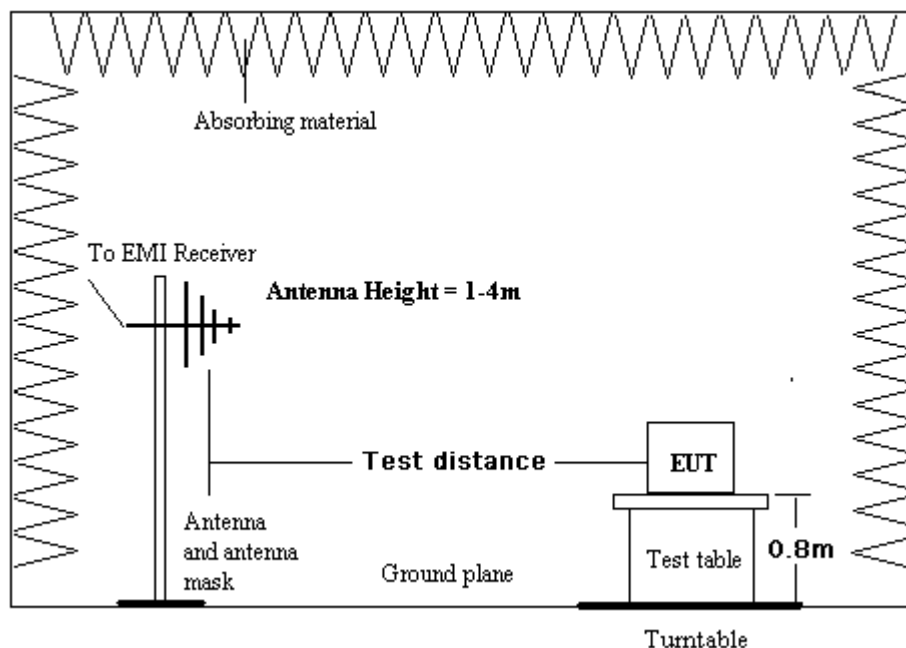
Humidity: 50% RH

Atmospheric Pressure: 103.0kPa

EUT Operation:

1. Connect the EUT via an USB cable to an AC/DC adapter or 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

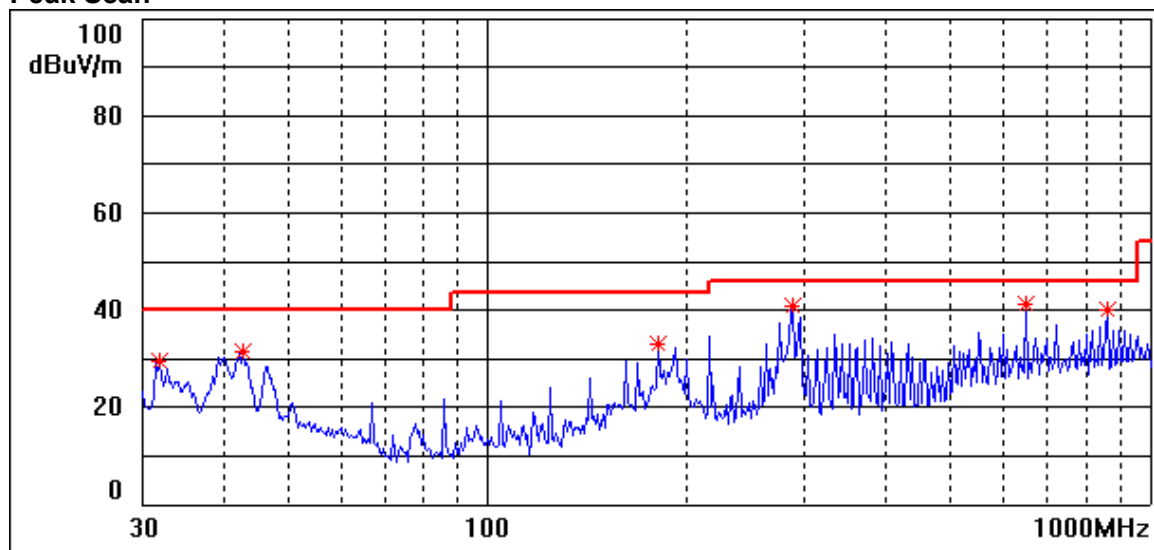


6.2.3 Measurement Data

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, Mode: Transmitting Data with Notebook

Peak Scan



Quasi-peak measurement

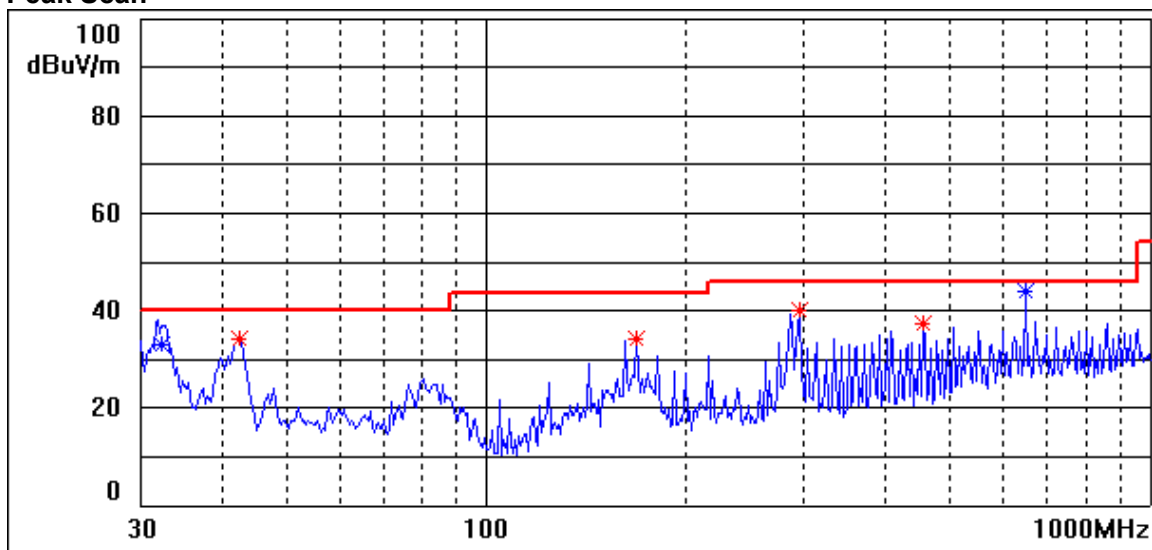
Frequency	Level	Transducer	Limit	Margin
MHz	dBuV/m	dB	dBuV/m	dB
31.9	29.7	17.3	40	10.3
42.6	31.3	12.9	40	8.7
181.1	33.1	11.5	43.5	10.4
288.0	40.8	15.9	46	5.2
648.0	41.1	24.0	46	4.9
864.0	40.1	26.7	46	5.9

Note:

The transducer factor includes antenna factor and cable loss.

Vertical, Mode: Transmitting Data with Notebook

Peak Scan



Quasi-peak measurement

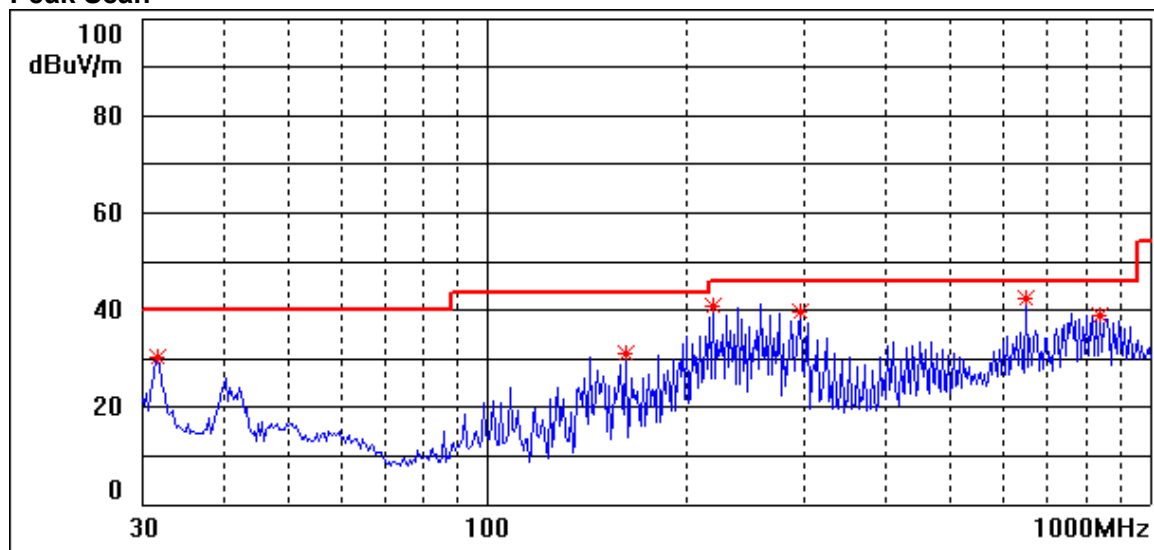
Frequency	Level	Transducer	Limit	Margin
MHz	dBuV/m	dB	dBuV/m	dB
32.3	33.2	17.1	40	6.8
42.4	34.1	13.0	40	5.9
168.0	34.1	11.2	43.5	9.4
295.4	39.9	16.3	46	6.1
456.0	37.4	19.7	46	8.6
648.0	43.8	24.0	46	2.2

Note:

The transducer factor includes antenna factor and cable loss.

Horizontal, Mode: Power Supplied by Adapter and Scanning with TV

Peak Scan



Quasi-peak measurement

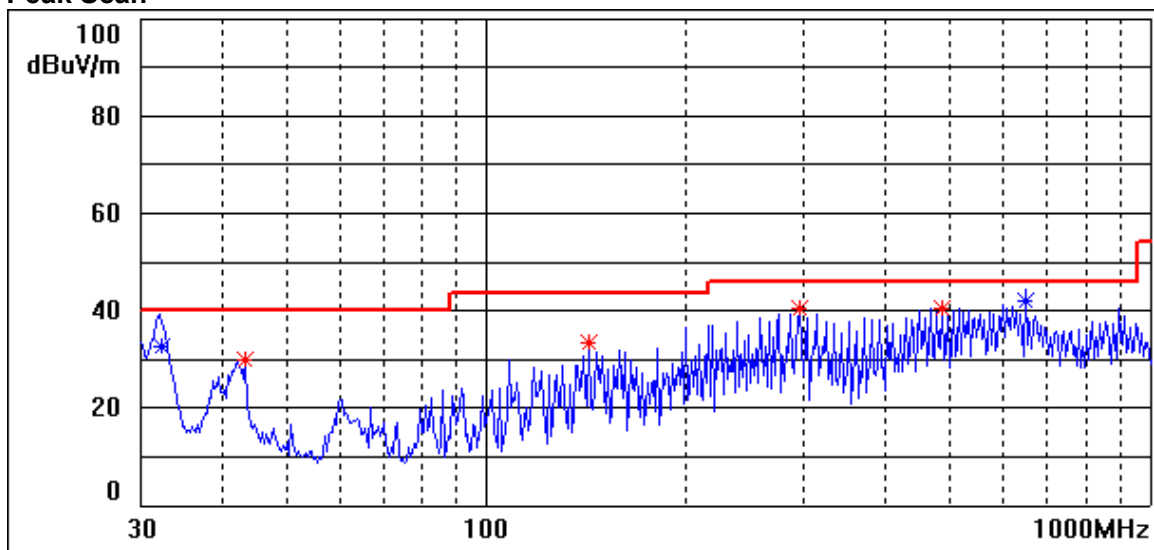
Frequency	Level	Transducer	Limit	Margin
MHz	dBuV/m	dB	dBuV/m	dB
31.8	30.2	17.3	40	9.8
162.0	31.0	11.3	43.5	12.5
219.2	41.0	13.0	46	5.0
295.4	39.5	16.3	46	6.5
648.0	42.3	24.0	46	3.7
838.6	39.0	26.2	46	7.0

Note:

The transducer factor includes antenna factor and cable loss.

Vertical, Mode: Power Supplied by Adapter and Scanning with TV

Peak Scan



Quasi-peak measurement

Frequency	Level	Transducer	Limit	Margin
MHz	dBuV/m	dB	dBuV/m	dB
32.5	32.6	17.0	40	7.4
43.3	30.0	12.6	40	10.0
142.9	33.4	9.9	43.5	10.1
295.4	40.6	16.3	46	5.4
486.0	40.5	20.5	46	5.5
648.0	42.1	24.0	46	3.9

Note:

The transducer factor includes antenna factor and cable loss.

7. Photographs

7.1 Conducted Emission Test Setup





7.2 Radiated Emission Test Setup



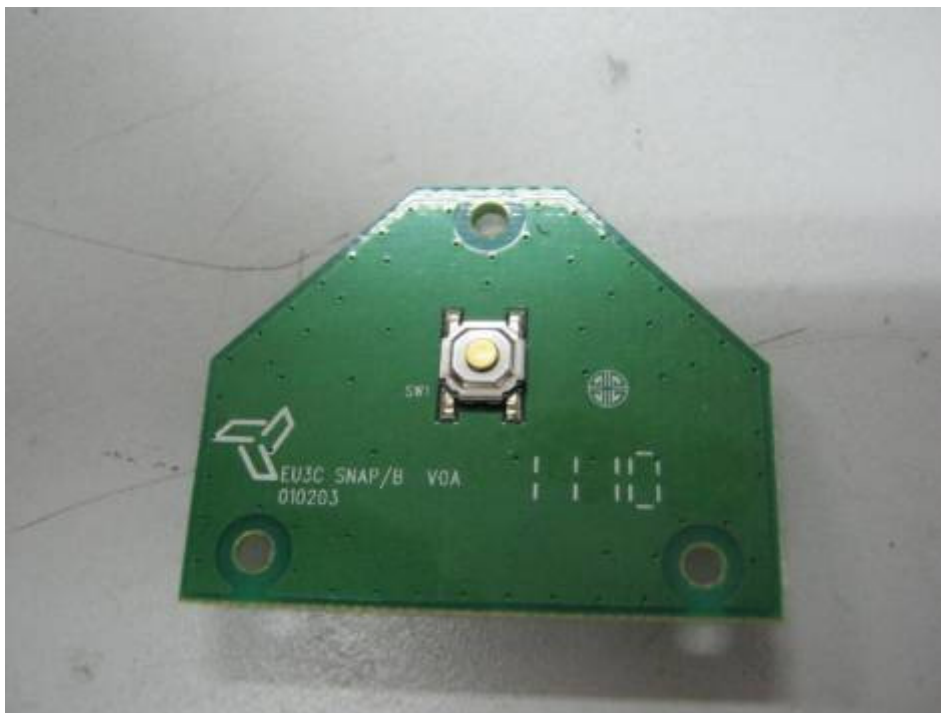
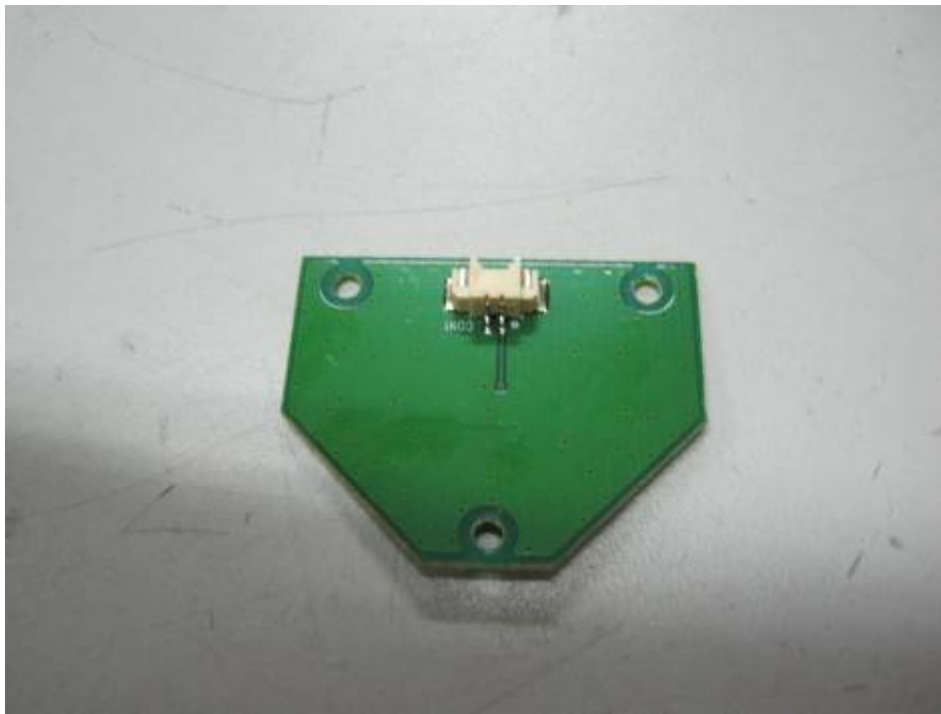


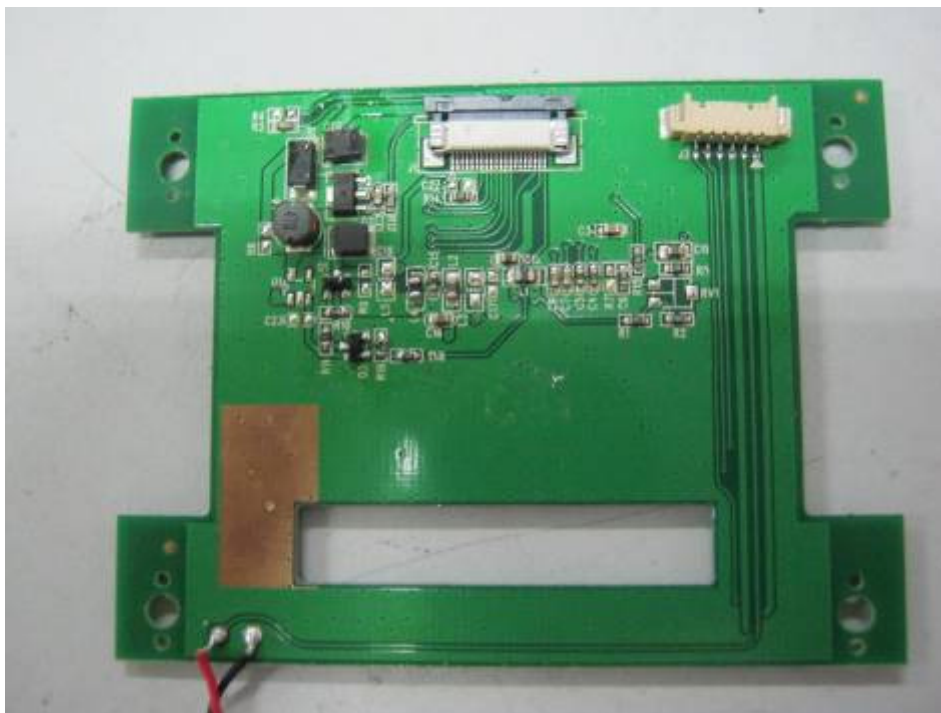
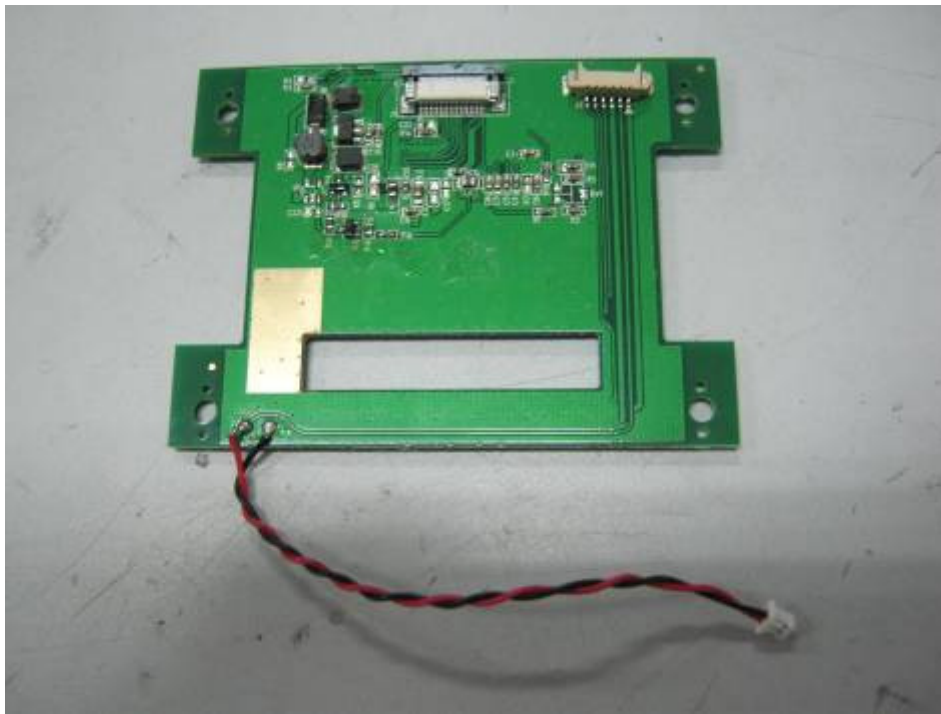
7.3 EUT Constructional Details

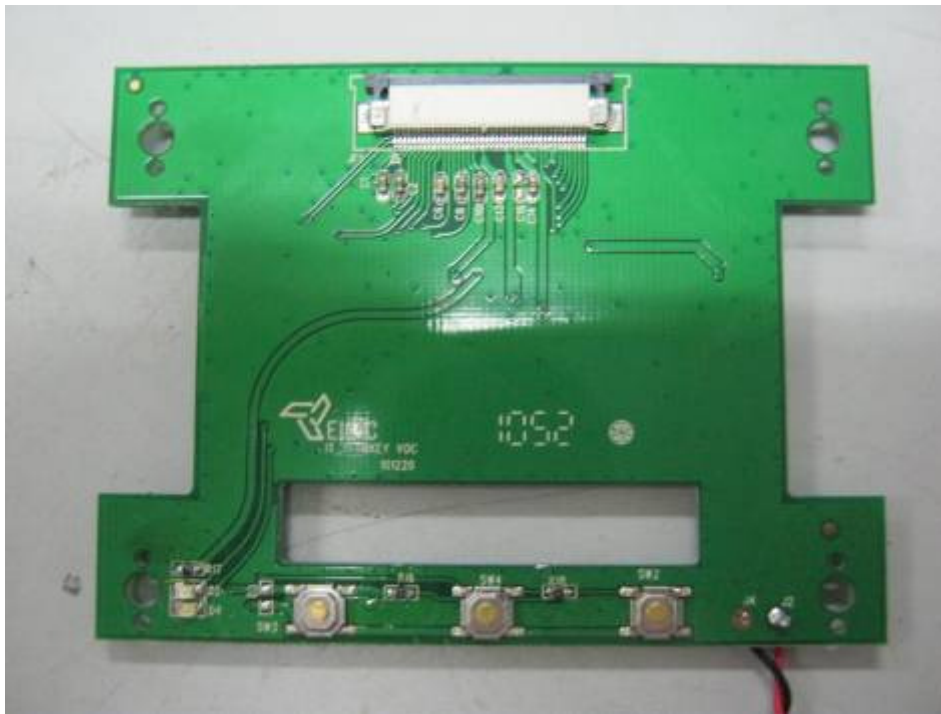


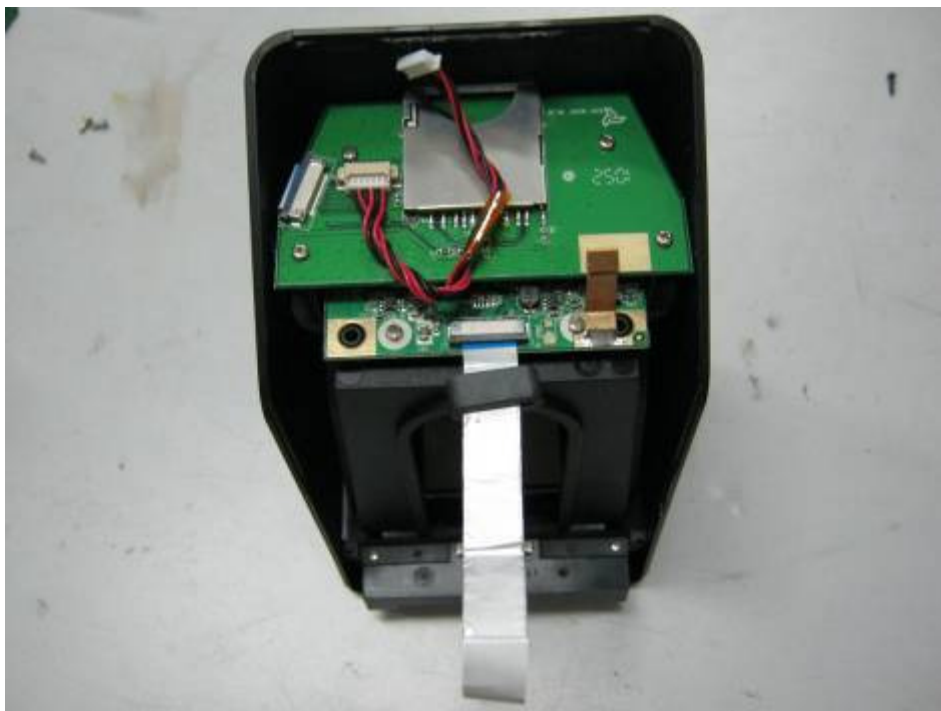
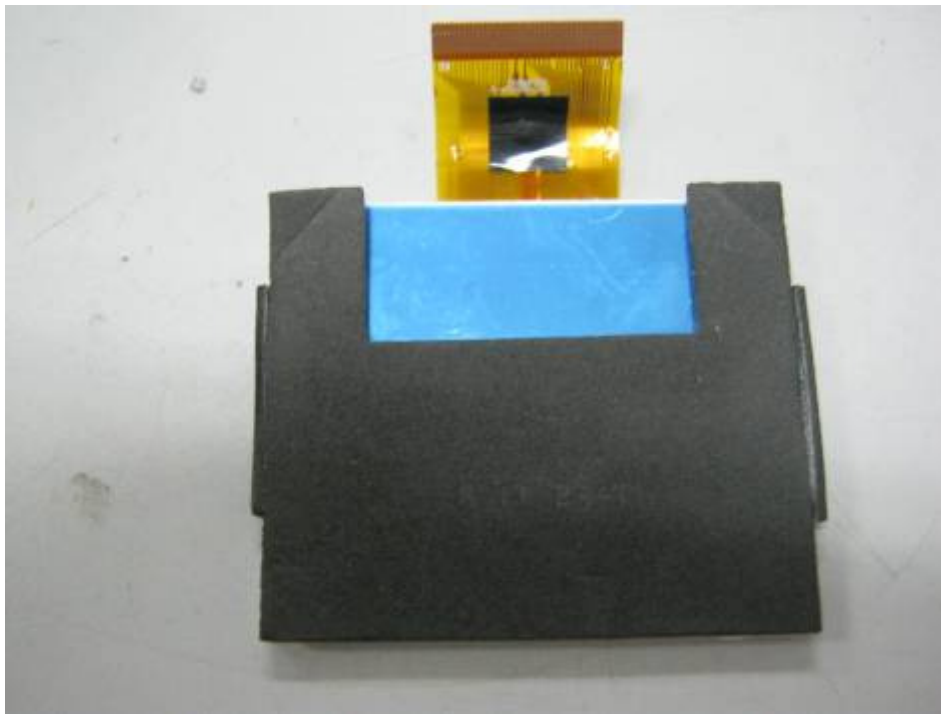


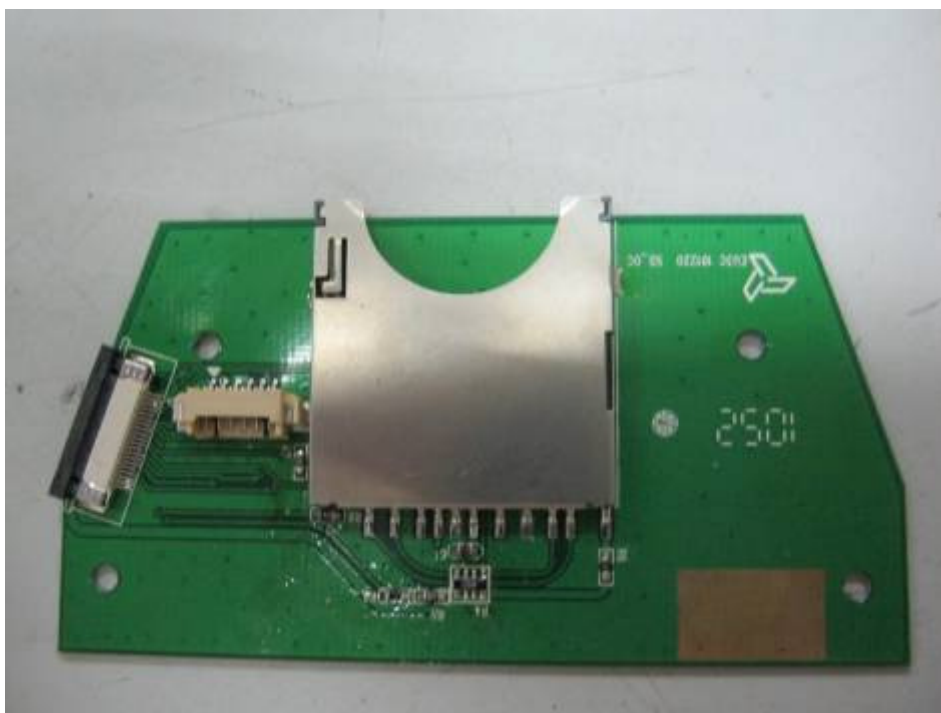
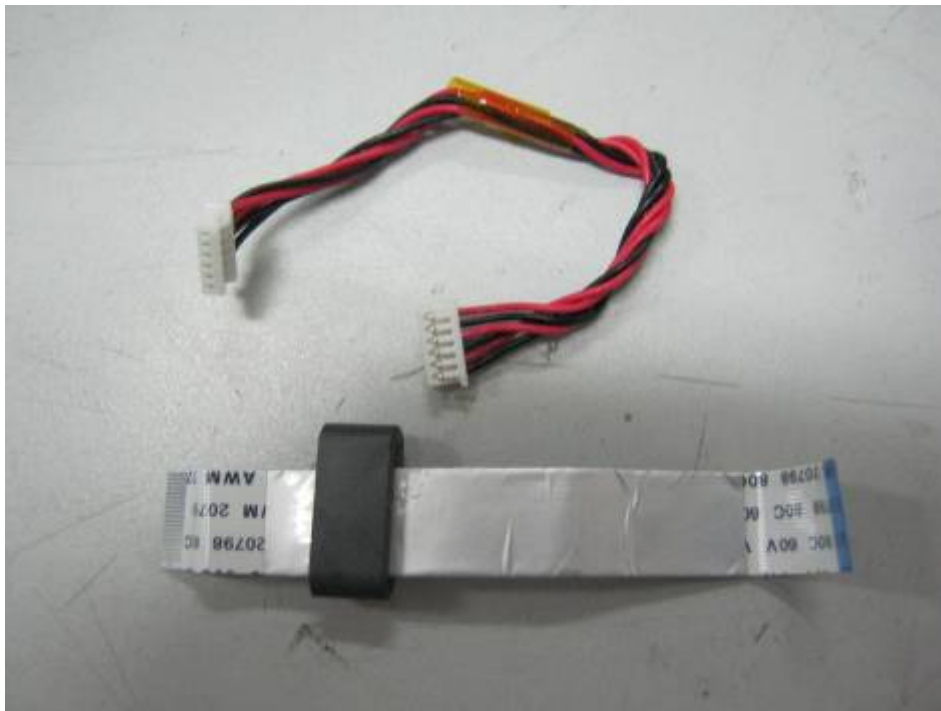


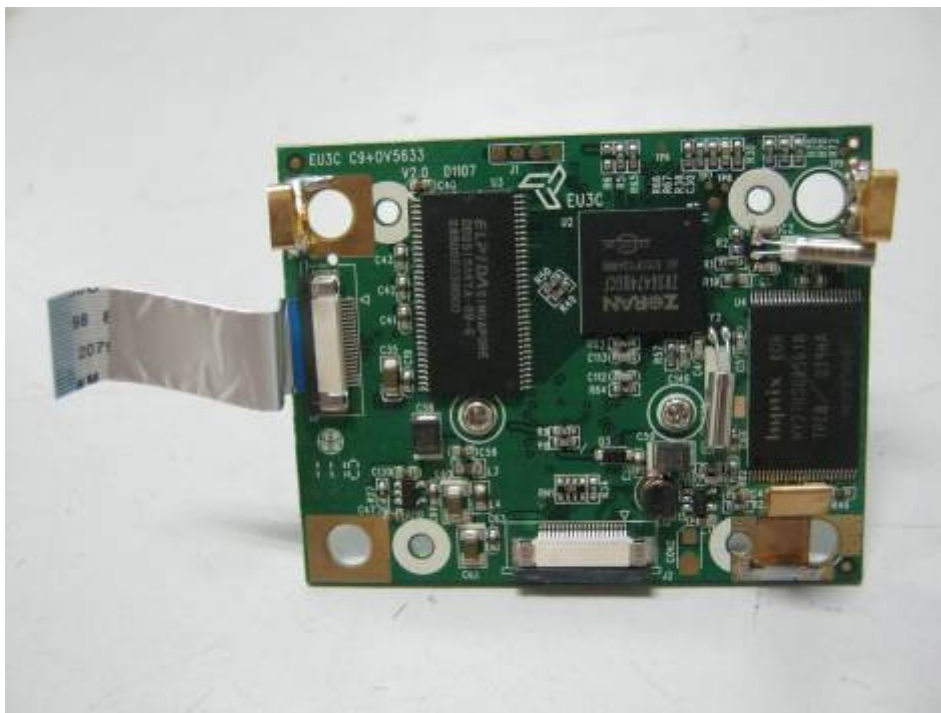
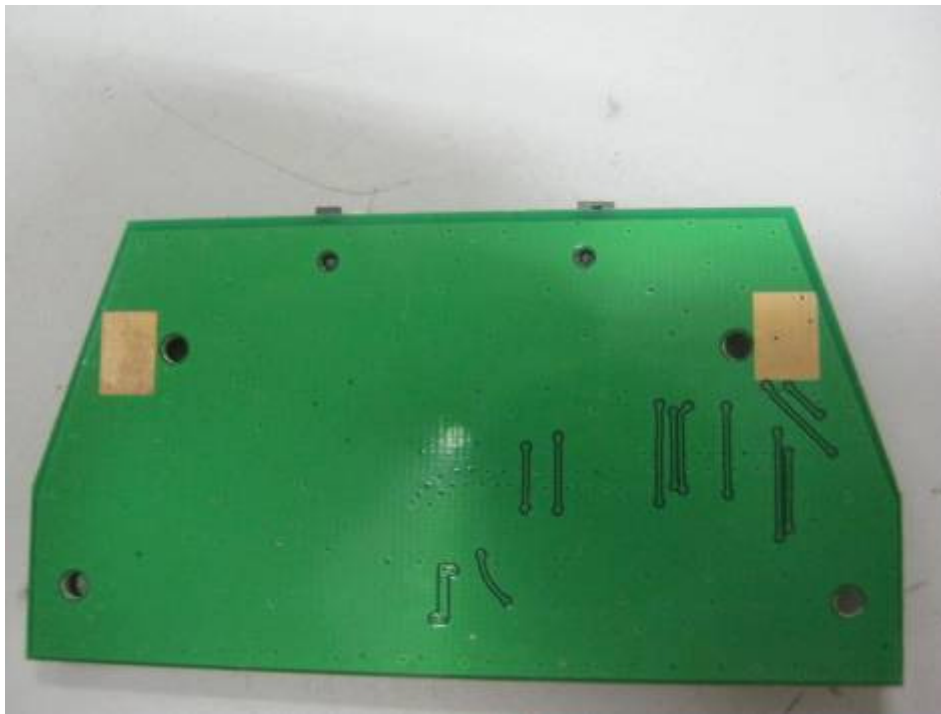






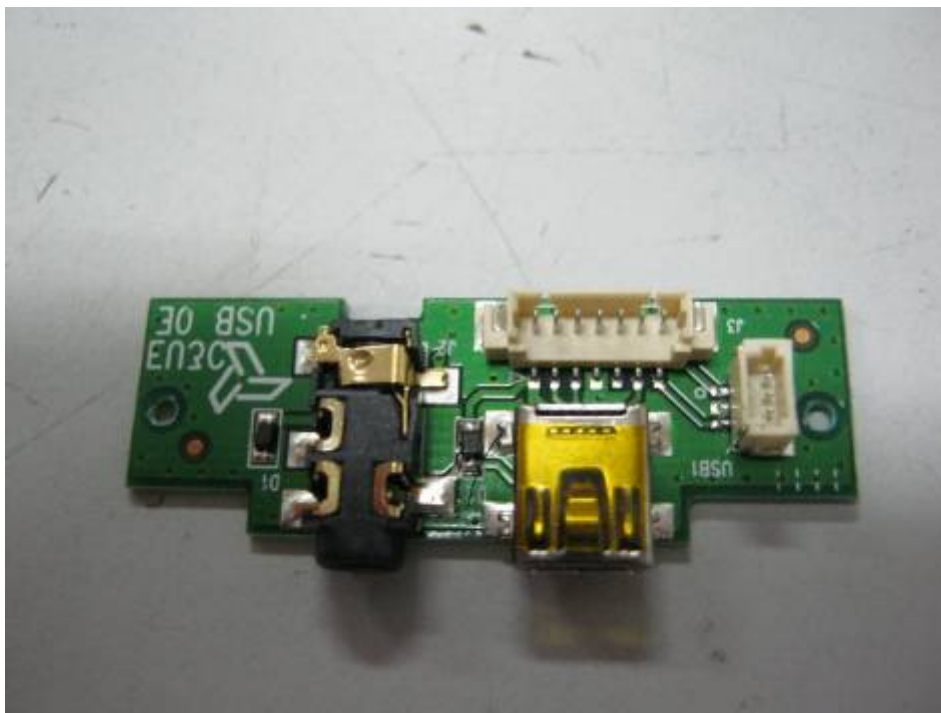
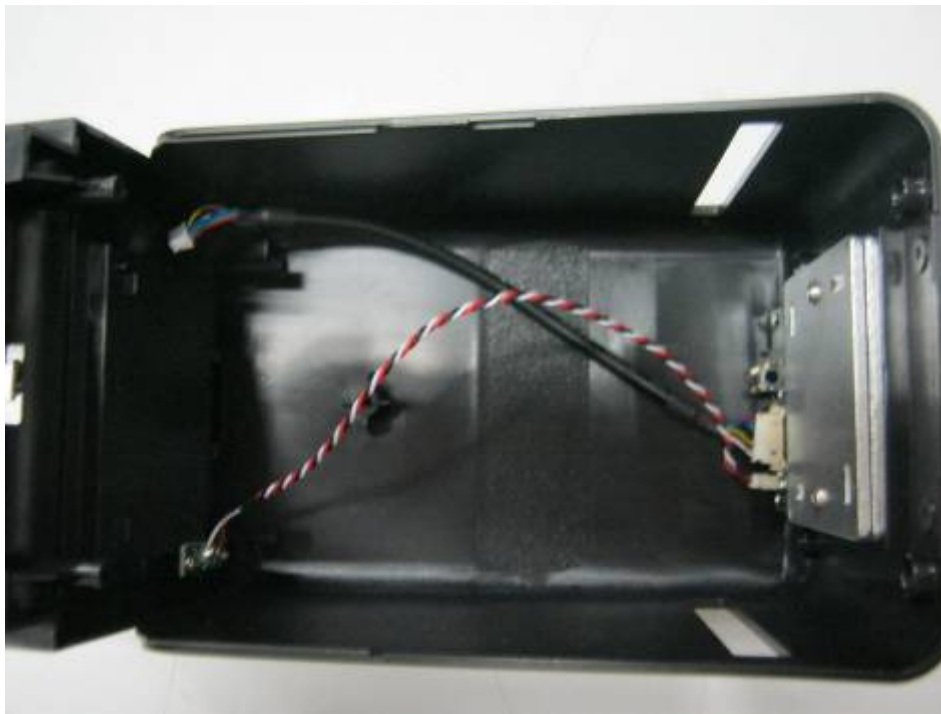


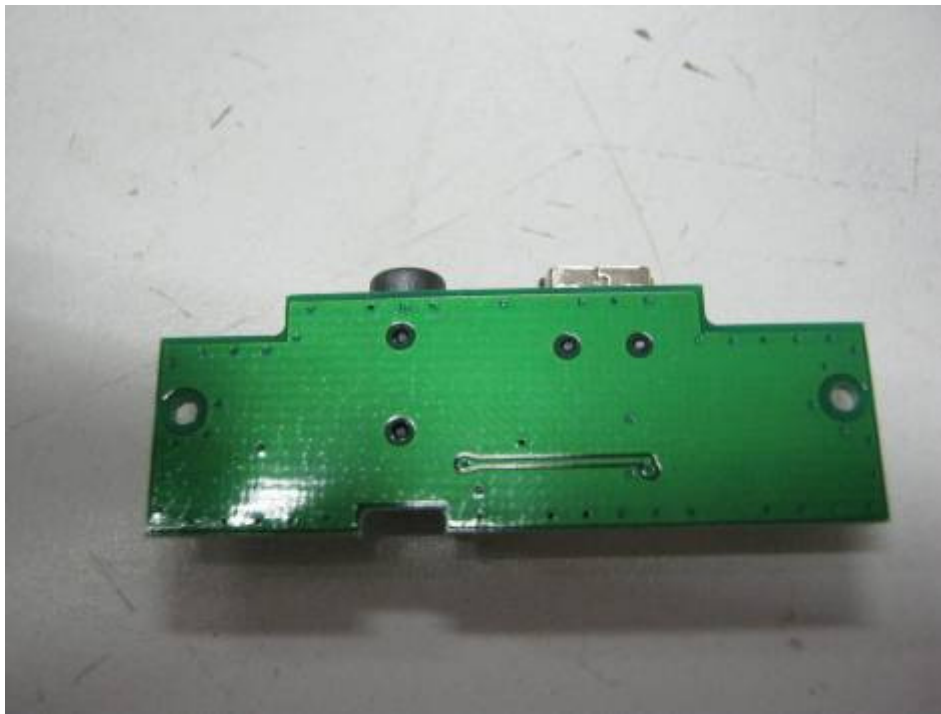


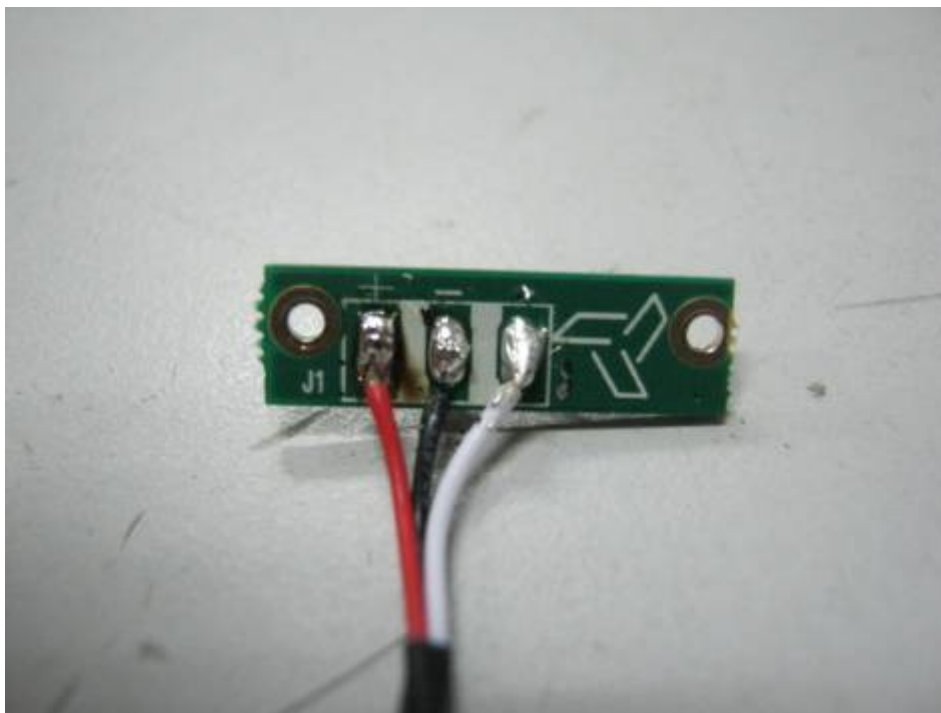


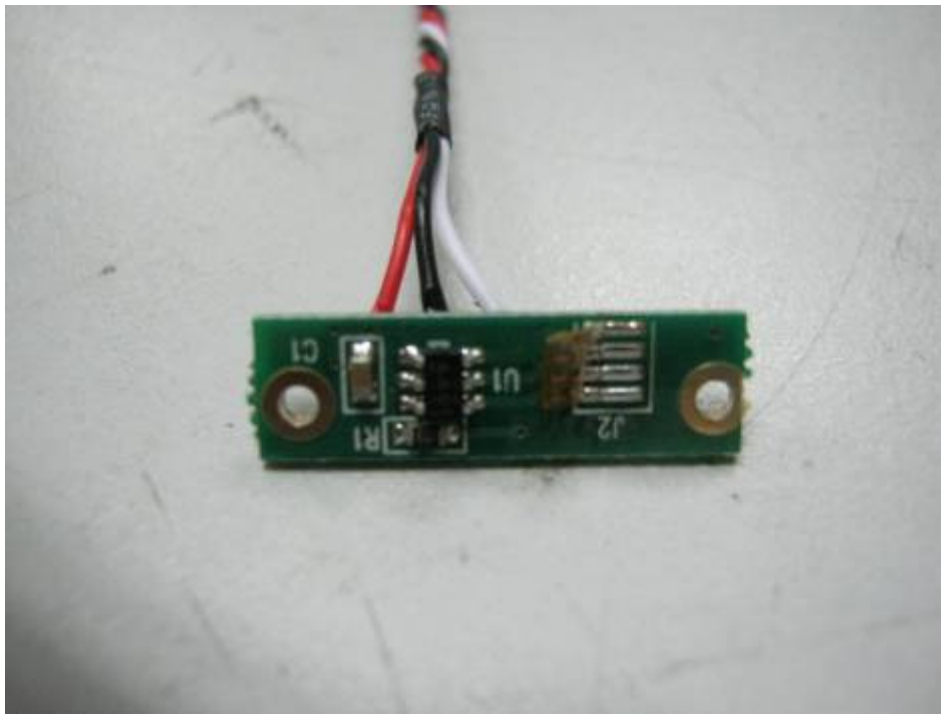






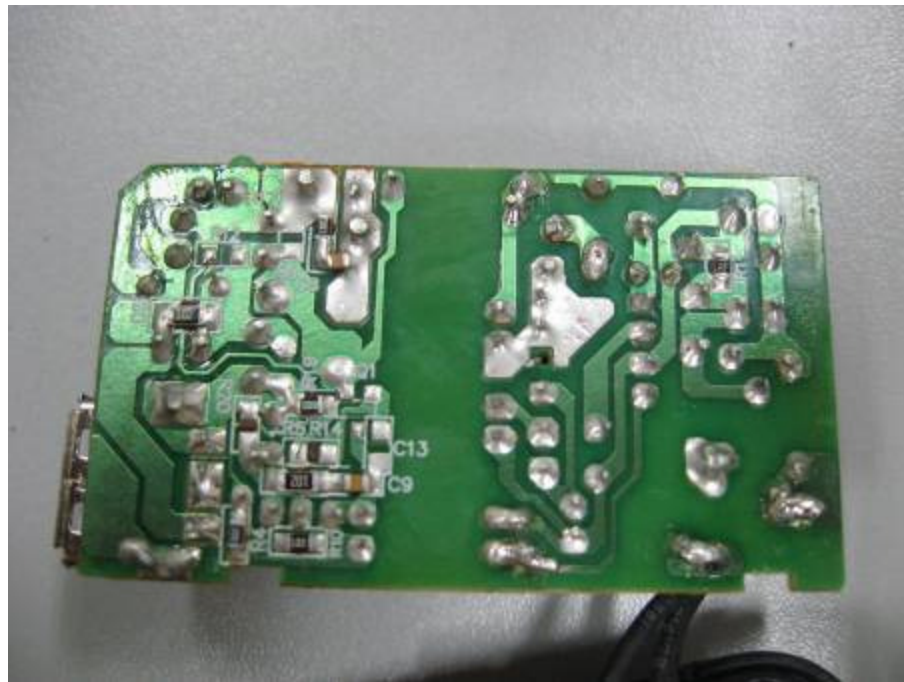












End of Report