



## FCC PART 15 SUBPART B TEST REPORT

### FCC PART 15 B

**FCC ID**.....: X5QRD75606

**Report Reference No.**.....: WE10030015

Compiled by

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Approved by

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*Jimmy Li*

Date of issue.....: Apr 19, 2010

**Testing Laboratory Name** .....: Shenzhen Huatongwei International Inspection Co., Ltd

Address .....: Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China

**Applicant's name**.....: Jetlun (Shenzhen) Corporation

Address .....: 1008A Skyworth Building Gao-xin RD South High-tech Park  
Nanshan District Shenzhen China

#### Test specification:

Standard .....: FCC Part 15B- Unintentional Radiators

TRF Originator .....: Shenzhen Huatongwei International Inspection CO., Ltd

Master TRF .....: Dated 2006-06

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**Test item description** .....: Gateway Pro.

Trade Mark .....: /

Model/Type reference.....: RD75606

Listed Models .....: /

Serial Number .....: /

Result.....: **Positive**

## TEST REPORT

<b>Test Report No. :</b>	<b>WE10030015</b>	Apr 19, 2010 Date of issue
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Equipment under Test : Gateway Pro.

Model /Type : RD75606

Listed Models : /

Applicant : Jetlun (Shenzhen) Corporation

Address : 1008A Skyworth Building Gao-xin RD South High-tech Park Nanshan District Shenzhen China

Manufacturer : ZHUHAI YUEHUA ELECTRONIC CO.,LTD

Address : #13,No.4 PINGDONG ROAD,NANPING TECHNOLOGY DISTRICT,ZHUHAI,GUANGDONG,CHINA

<b>Test Result</b> according to the standards on page 4:	<b>Positive</b>
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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## 1. TEST STANDARDS

The tests were performed according to following standards:

**FCC Rules Part 15 Subpart B - Unintentional Radiators**

**ANSI C63.4-2009:** American National Standard for Methods of Measurement of Radio-Noise Emissions From Low Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz.

## 2. SUMMARY

### 2.1. General Remarks

Date of receipt of test sample : May 30, 2010

Testing commenced on : May 30, 2010

Testing concluded on : Apr 19, 2010

### 2.2. Equipment Under Test

#### Power supply system utilised

Power supply voltage :  120V / 60 Hz  115V / 60Hz  
 12 V DC  24 V DC  
 Other (specified in blank below)

DC 5V Adapter from AC 120V/60Hz

#### General Description of EUT

Product Name(EUT) : Gateway Pro.

Model No. : RD75606

Operating Frequency : 2405~2480MHz

Number of Channel : 16 channels

Standard Compliance : Zigbee

Modulation : OFDM/DCSK

Transport mode : Zigbee: Up to 206Kbps

Range : Zigbee: Up to 100ft(30m)

Temp. range : 0°C ~ +35°C(indoor usage only)

Operating voltage : 100-240 VAC, 50-60Hz

Type of Equipment : Stand-alone

### 2.3. Short description of the Equipment under Test (EUT)

## 2.4GHz (Gateway Pro.)

For more details, refer to the user's manual of the EUT.

Serial number: Prototype

## 2.4. EUT operation mode

The EUT has been tested under typical operating condition.

The EUT has been tested under typical operating condition.

There are sixteen channels of EUT, and the test carried out at the channel 11(lowest), channel 18(middle) and channel 26 (highest) channels.

Channel	Frequency	Channel	Frequency
11	<b>2405 MHz</b>	19	2445 MHz
12	2410 MHz	20	2450 MHz
13	2415 MHz	21	2455 MHz
14	2420 MHz	22	2460 MHz
15	2425 MHz	23	2465 MHz
16	2430 MHz	24	2470 MHz
17	2435 MHz	25	2475 MHz
<b>18</b>	<b>2440 MHz</b>	<b>26</b>	<b>2480 MHz</b>

**Note:** 1, Per-Scan have been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports.

## 2.5. EUT configuration

**The following peripheral devices and interface cables were connected during the measurement:**

- - supplied by the manufacturer
  - - supplied by the lab
  - Power Cable
    - Length (m) : /
    - Shield : /
  - Multimeter
    - Detachable : /
    - Manufacturer : /
    - Model No. : /
  - Cable
    - Length (m) : /
    - Shield : /

## 2.6. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **X5QRD75606** filing to comply with the FCC Part 15, Subpart B Rules.

## 2.7. Modifications

No modifications were implemented to meet testing criteria.

## 2.8. NOTE

1. The EUT is a Zigbee Gateway Pro., The functions of the EUT listed as below:

	Test Standards	Reference Report
Zigbee	FCC Part 15 Subpart C (Section15.247)	WE10010004
	FCC Part 15 Subpart B	WE10030015

### **3. TEST ENVIRONMENT**

#### **3.1. Address of the test laboratory**

Shenzhen Huatongwei International Inspection Co., Ltd  
Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China  
Phone: 86-755-26715686 Fax: 86-755-26748089

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 (2009) and CISPR Publication 22.

#### **3.2. Test Facility**

The test facility is recognized, certified, or accredited by the following organizations:

##### **CNAS-Lab Code: L1225**

Shenzhen Huatongwei International Inspection Co., Ltd has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories, Date of Registration: August 02, 2007. Valid time is until March 29, 2012.

##### **A2LA-Lab Cert. No. 2243.01**

Shenzhen Huatongwei International Inspection Co., Ltd, EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. Valid time is until Sept 30, 2011.

##### **FCC-Registration No.: 662850**

Shenzhen Huatongwei International Inspection 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 662850, Renewal date July 01, 2009.

##### **IC-Registration No.: 5377**

The 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377 on February 13th, 2009.

##### **ACA**

Shenzhen Huatongwei International Inspection Co., Ltd, EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

##### **NEMKO-Aut. No.: ELA125**

Shenzhen Huatongwei International Inspection Co., Ltd has been assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025:2005 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10; the Authorization is valid through Jul 07, 2011.

##### **VCCI**

The 3m Semi-anechoic chamber (12.2m×7.95m×6.7m) and Shielded Room (8m×4m×3m) of Shenzhen Huatongwei International Inspection Co., Ltd has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2484. Date of Registration: December 20, 2009. Valid time is until December 19, 2012.

Main Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-2726. Date of Registration: December 20, 2009. Valid time is until December 19, 2012.

**DNV**

Shenzhen Huatongwei International Inspection Co Ltd has been found to comply with the requirements of DNV towards subcontractor of EMC and safety testing services in conjunction with the EMC and Low voltage Directives and in the voluntary field. The acceptance is based on a formal quality Audit and follow-ups according to relevant parts of ISO/IEC Guide 17025(2005), in accordance with the requirements of the DNV Laboratory Quality Manual towards subcontractors. Valid time is until 09 July, 2010.

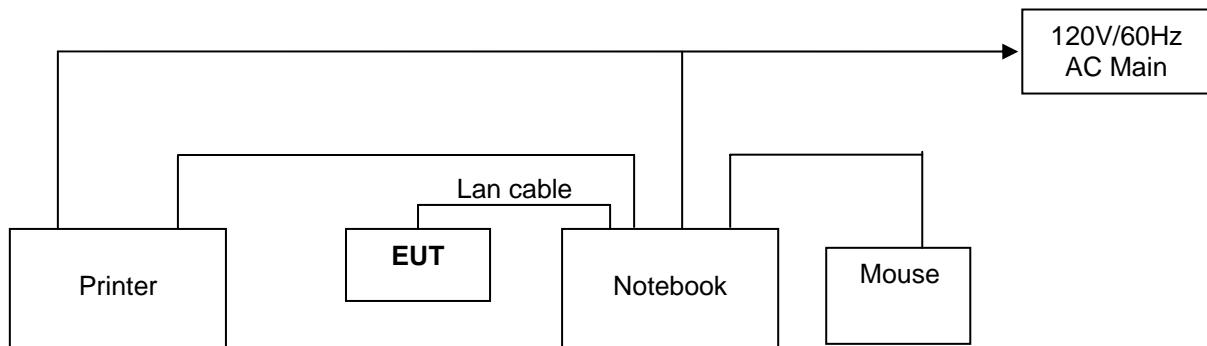
### 3.3. Environmental conditions

uring the measurement the environmental conditions were within the listed ranges:

Temperature: 15-35 ° C  
 Humidity: 30-60 %  
 Atmospheric pressure: 950-1050mbar

### 3.4. Configuration of Tested System

**Fig. 2-1 Configuration of Tested System**



**Table 2-1 Equipment Used in Tested System**

No.	Product	Manufacturer	Model No.	Serial No.	FCC ID
1	Printer	HP	Laserjet P2015d	/	DoC
2	Notebook PC	IBM	1843-2XL	LV-BLH05 06/02	DoC

Note: For actual sample please see test setup photos and EUT external photos.

### 3.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.24 dB	(1)
Radiated Emission	1~18GHz	5.16 dB	(1)
Conducted Disturbance	0.15~30MHz	3.39 dB	(1)

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

### 3.6. Test Description

FCC PART 15		
FCC Part 15.107	AC Power Conducted Emission	PASS
FCC Part 15.109	Radiated Emissions	PASS

Remark: The measurement uncertainty is not included in the test result.

### 3.7. Equipments Used during the Test

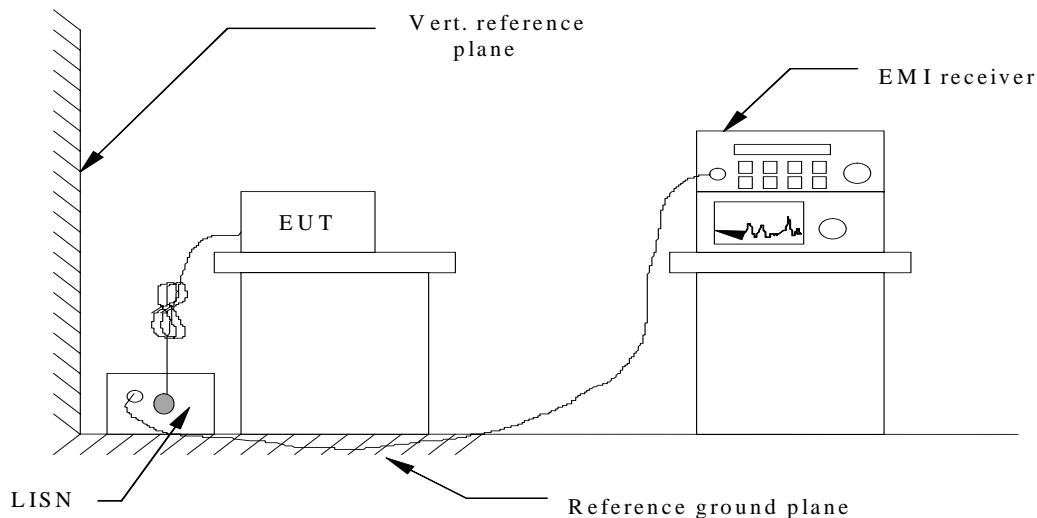
AC Power Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESCI	100106	2009/11
2	ARTIFICIAL MAINS	ROHDE & SCHWARZ	ESH2-Z5	100028	2009/11
3	PULSE LIMITER	ROHDE & SCHWARZ	ESHSZ2	100044	2009/11
4	EMI TEST SOFTWARE	ROHDE & SCHWARZ	ES-K1 1.71	N/A	2009/11

Radiated Emissions					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	ULTRA-BROADBAND ANTENNA	ROHDE & SCHWARZ	HL562	100015	2009/11
2	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESI 26	100009	2009/11
3	RF TEST PANEL	ROHDE & SCHWARZ	TS / RSP	335015/ 0017	2009/11
4	TURNTABLE	ETS	2088	2149	2009/11
5	ANTENNA MAST	ETS	2075	2346	2009/11
6	EMI TEST SOFTWARE	ROHDE & SCHWARZ	ESK1	N/A	2009/11

## 4. TEST CONDITIONS AND RESULTS

### 4.1. Conducted Emissions Test

#### TEST CONFIGURATION



#### TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4-2009.
- 2 Support equipment, if needed, was placed as per ANSI C63.4-2009.
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4-2009.
- 4 The EUT received the AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

#### Conducted Power Line Emission Limit

For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following :

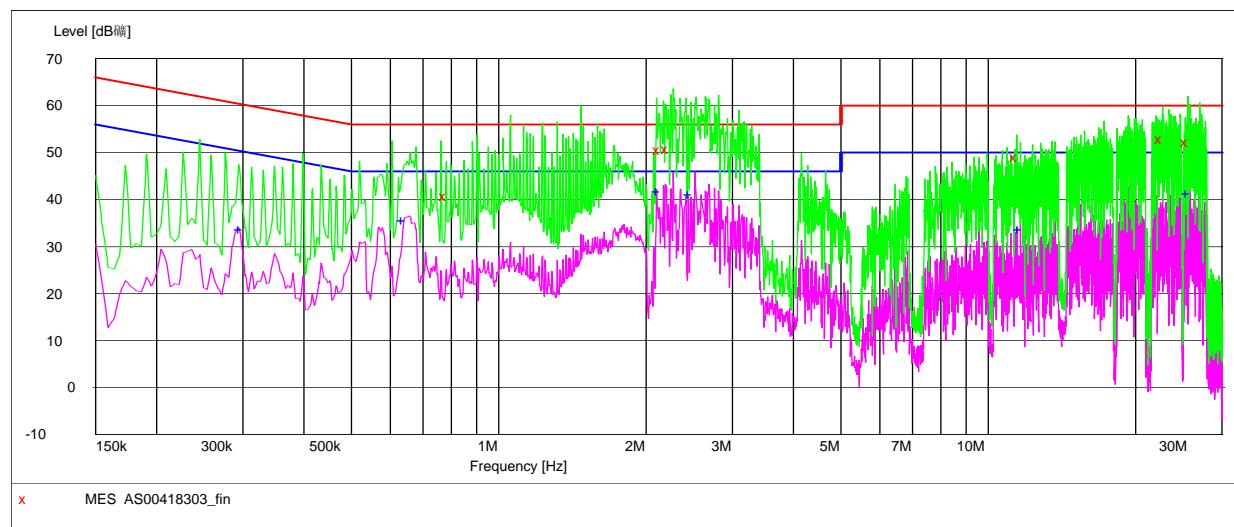
Frequency (MHz)	Maximum RF Line Voltage (dB $\mu$ V)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

\* Decreasing linearly with the logarithm of the frequency

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

**TEST RESULTS****SCAN TABLE: "Voltage (9K-30M) FIN"**

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "AS00418303\_fin"**

4/18/2010 7:38PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.780000	40.80	10.1	56	15.2	QP	N	GND
2.135000	50.60	10.2	56	5.4	QP	N	GND
2.216000	50.80	10.2	56	5.2	QP	N	GND
11.468000	49.10	10.6	60	9.9	QP	N	GND
22.646000	53.00	10.8	60	7.0	QP	N	GND
25.589000	52.30	10.9	60	7.7	QP	N	GND

**MEASUREMENT RESULT: "AS00418303\_fin2"**

4/18/2010 7:39PM

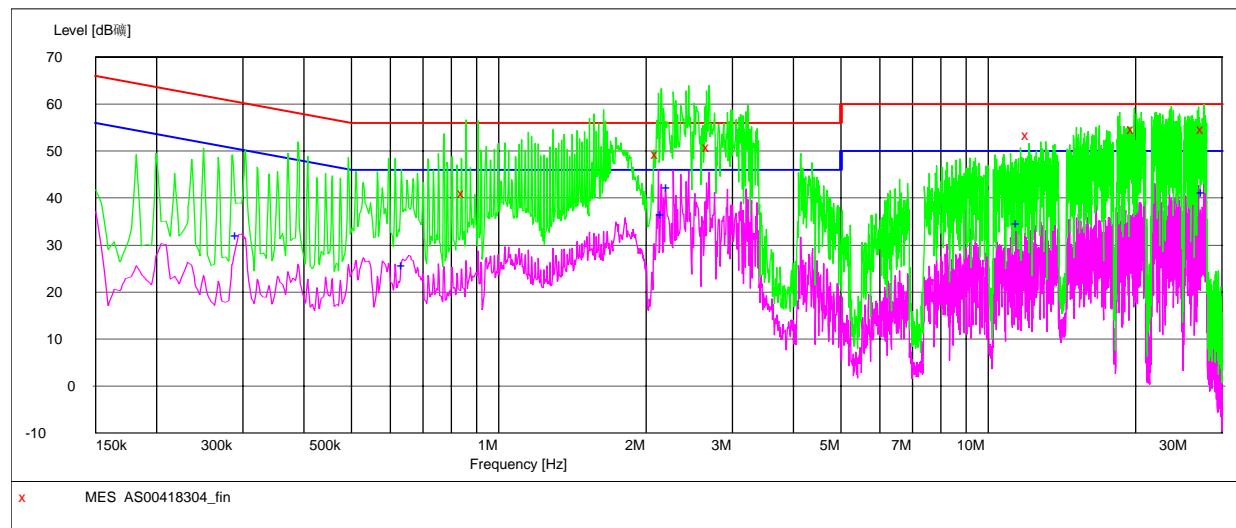
Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.298500	33.70	10.1	50	16.6	AV	N	GND
0.640500	35.50	10.1	46	10.5	AV	N	GND
2.126000	41.80	10.2	46	4.2	AV	N	GND
2.468000	41.20	10.2	46	4.8	AV	N	GND
11.648000	33.70	10.6	50	16.3	AV	N	GND
25.634000	41.40	10.9	50	8.6	AV	N	GND

**Remark:**

- (1) Measuring frequencies from 0.15 MHz to the 30 MHz.
- (2) Data of measurement within this frequency range shown "—" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) The IF bandwidth of EMI Test Receiver was 9KHz for measuring from 0.15 MHz to 30 MHz

**SCAN TABLE: "Voltage (9K-30M) FIN"**

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "AS00418304\_fin"**

4/18/2010 8:09PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.852000	41.00	10.1	56	15.0	QP	L1	GND
2.117000	49.40	10.2	56	6.6	QP	L1	GND
2.693000	50.90	10.2	56	5.1	QP	L1	GND
12.089000	53.40	10.6	60	6.7	QP	L1	GND
19.901000	54.80	10.8	60	5.2	QP	L1	GND
27.551000	54.70	11.0	60	5.3	QP	L1	GND

**MEASUREMENT RESULT: "AS00418304\_fin2"**

4/18/2010 8:10PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.294000	32.10	10.1	50	18.3	AV	L1	GND
0.640500	25.70	10.1	46	20.3	AV	L1	GND
2.171000	36.70	10.2	46	9.3	AV	L1	GND
2.234000	42.30	10.2	46	3.7	AV	L1	GND
11.549000	34.70	10.6	50	15.3	AV	L1	GND
27.542000	41.30	11.0	50	8.7	AV	L1	GND

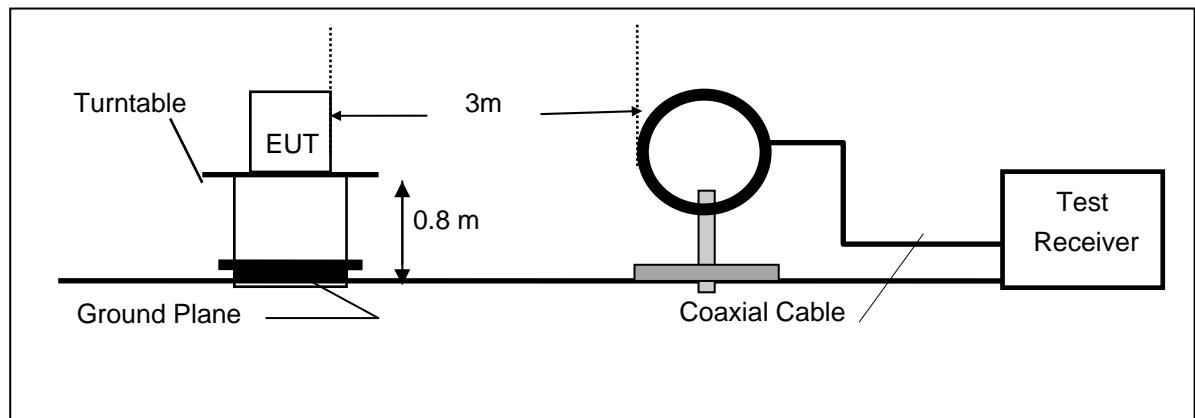
**Remark:**

- (1) Measuring frequencies from 0.15 MHz to the 30 MHz.
- (2) Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) The IF bandwidth of EMI Test Receiver was 9KHz for measuring from 0.15 MHz to 30MHz

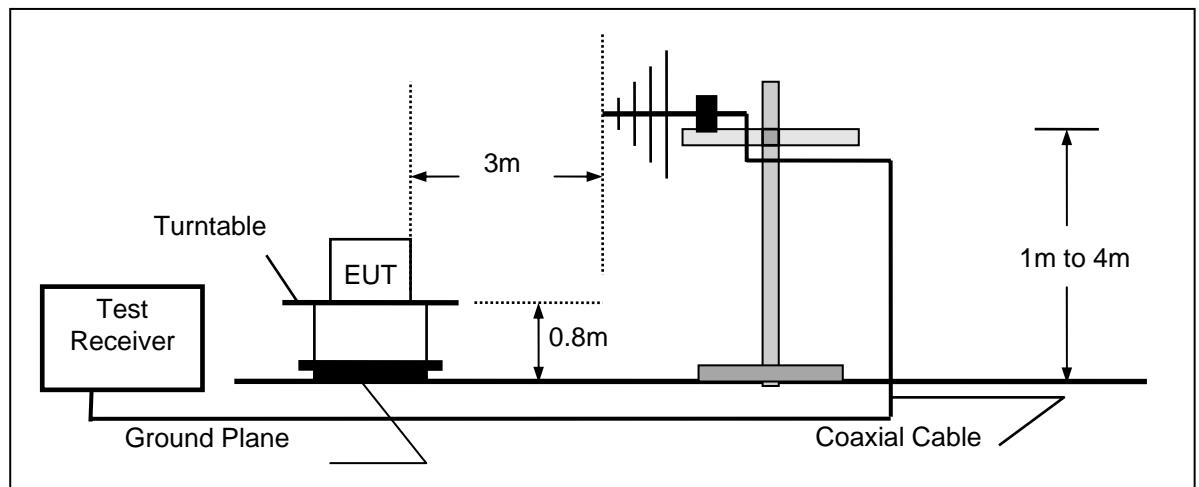
## 4.2. Radiated Emission Test

### TEST CONFIGURATION

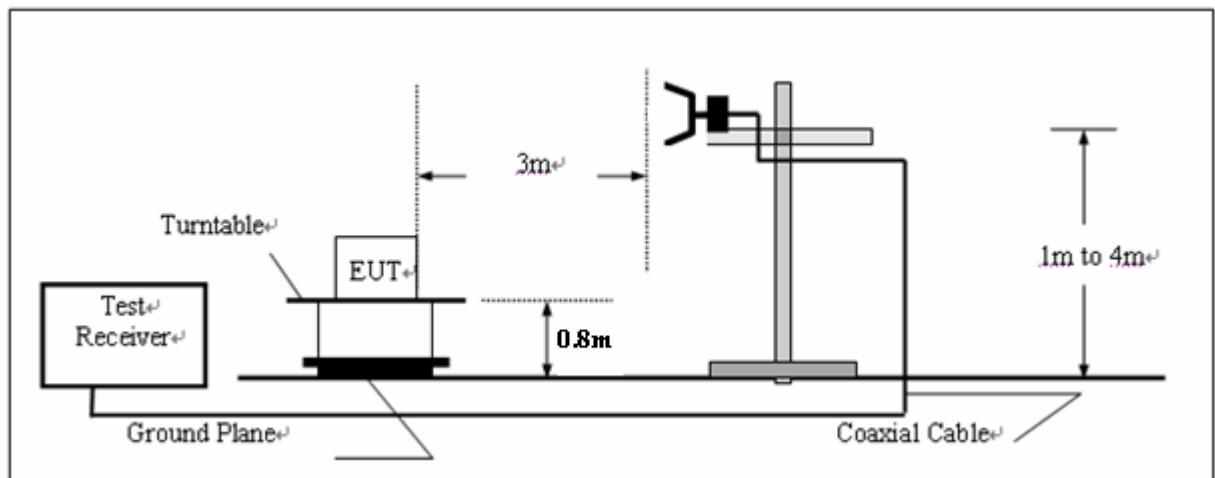
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



**TEST PROCEDURE**

- 1 The EUT was placed on a turn table which is 0.8m above ground plane.
- 2 Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.

**Field Strength Calculation**

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

**RADIATION LIMIT**

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dB $\mu$ V/m)	Radiated ( $\mu$ V/m)
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

**Test Procedure**

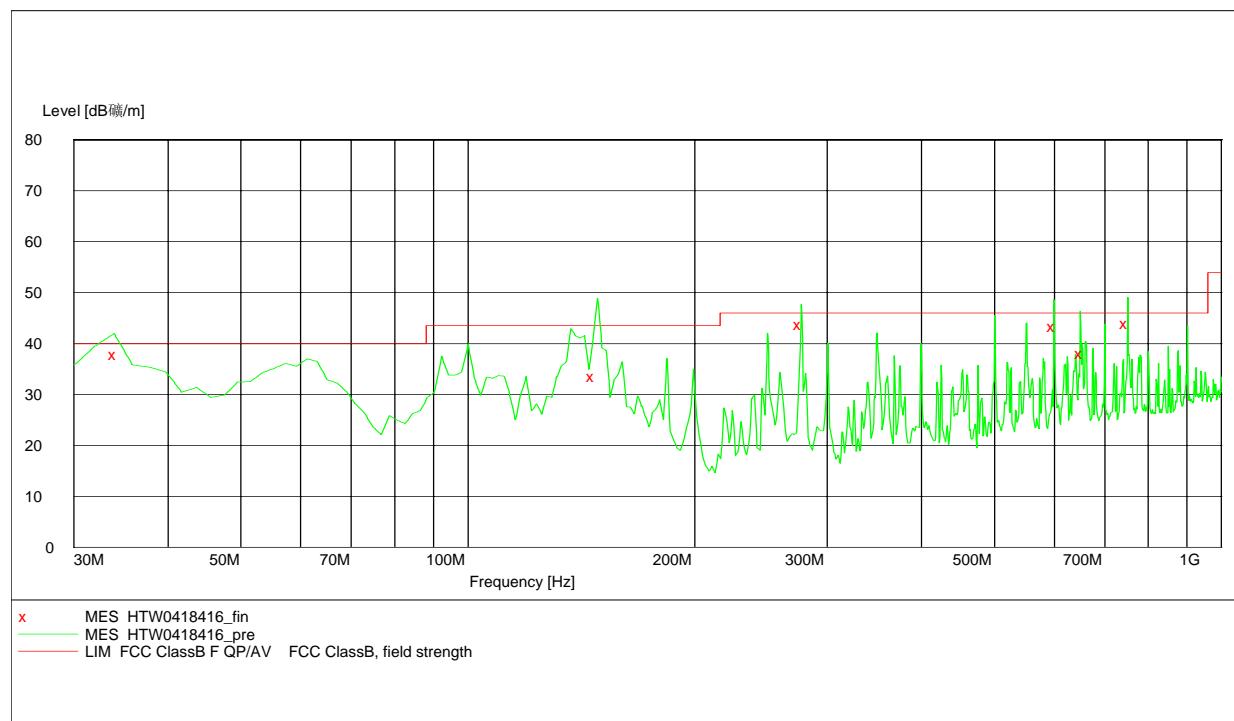
1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.

**TEST RESULTS**

Operation Mode: Normal Operation      Temperature: 25 °C      Humidity: 55 % RH      Polarity: Ver. / Hor.

***SCAN TABLE: "test Field (30M-1G) QP"***

Short Description:			Field Strength (30M-1G)			
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer
30.0 MHz	1.0 GHz	60.0 kHz	QuasiPeak	1.0 s	120 kHz	HL562 09

***MEASUREMENT RESULT: "HTW0418416\_fin"***

4/18/2010 6:57PM

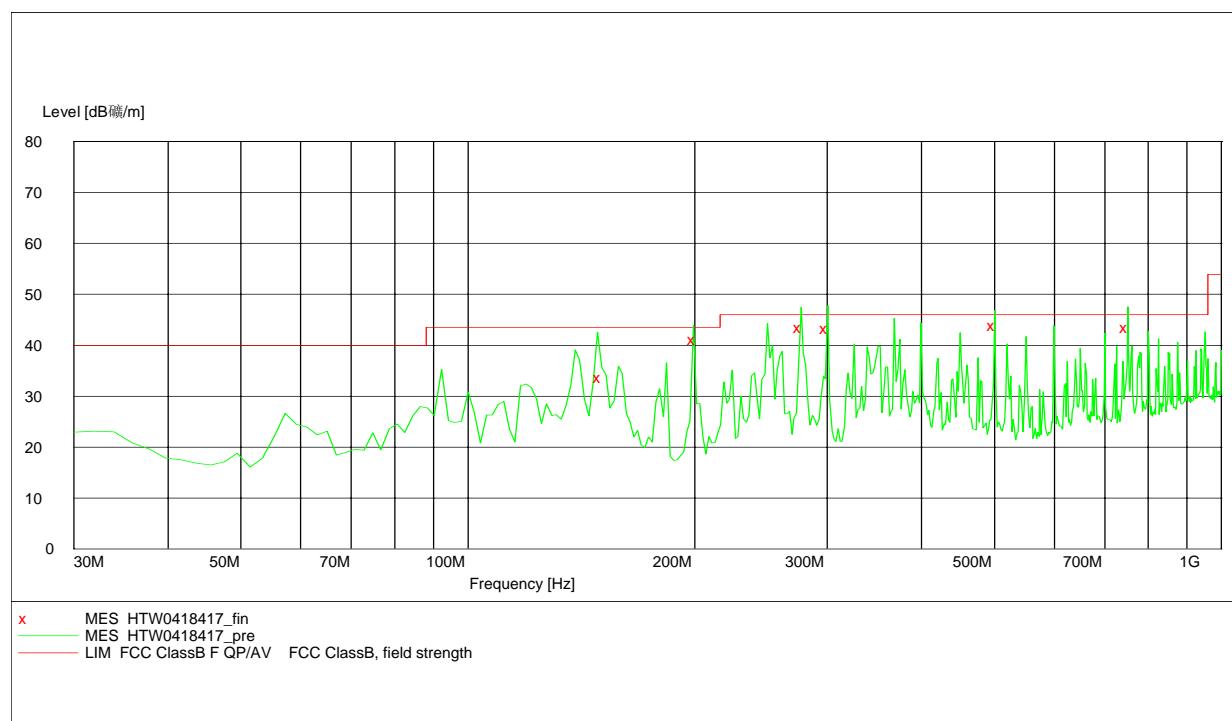
Frequency MHz	Level dB <sub>μ</sub> V/m	Transd dB	Limit dB <sub>μ</sub> V/m	Margin dB	Det. QP	Height cm	Azimuth deg	Polarization
34.080000	37.80	-7.0	40.0	2.2	QP	100.0	167.00	VERTICAL
147.000000	33.60	-15.9	43.5	9.9	QP	114.0	212.00	VERTICAL
276.480000	43.70	-11.9	46.0	2.3	QP	100.0	0.00	VERTICAL
600.060000	43.40	-5.3	46.0	2.6	QP	100.0	245.00	VERTICAL
653.040000	38.00	-3.2	46.0	8.0	QP	100.0	343.00	VERTICAL
750.060000	43.90	-1.8	46.0	2.1	QP	100.0	89.00	VERTICAL

***Remark:***

- (1) Measuring frequencies from 30 MHz to the 1 GHz.
- (2) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) Data of measurement within this frequency range shown “---” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of EMI Test Receiver was 120KHz for measuring from 30 MHz to 1 GHz and 1 MHz for measuring above 1 GHz

## SCAN TABLE: "test Field (30M-1G) QP"

Short Description: Field Strength (30M-1G)  
 Start Stop Step Detector Meas. IF Transducer  
 Frequency Frequency Width Time Bandw.  
 30.0 MHz 1.0 GHz 60.0 kHz QuasiPeak 1.0 s 120 kHz HL562 09



## MEASUREMENT RESULT: "HTW0418417\_fin"

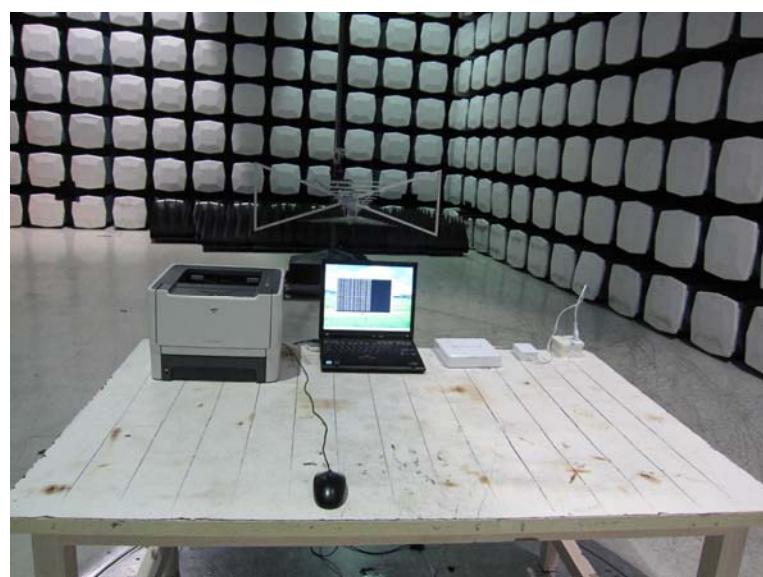
4/18/2010 6:54PM

Frequency MHz	Level dB $\mu$ V/m	Transd dB	Limit dB $\mu$ V/m	Margin dB	Det. QP	Height cm	Azimuth deg	Polarization
150.000000	33.60	-16.2	43.5	9.9	QP	150.0	98.00	HORIZONTAL
200.040000	41.10	-15.0	43.5	2.4	QP	150.0	295.00	HORIZONTAL
276.480000	43.50	-11.9	46.0	2.5	QP	99.0	238.00	HORIZONTAL
300.000000	43.30	-10.9	46.0	2.7	QP	100.0	228.00	HORIZONTAL
500.040000	43.80	-6.7	46.0	2.2	QP	100.0	108.00	HORIZONTAL
750.060000	43.50	-1.8	46.0	2.5	QP	100.0	243.00	HORIZONTAL

## Remark:

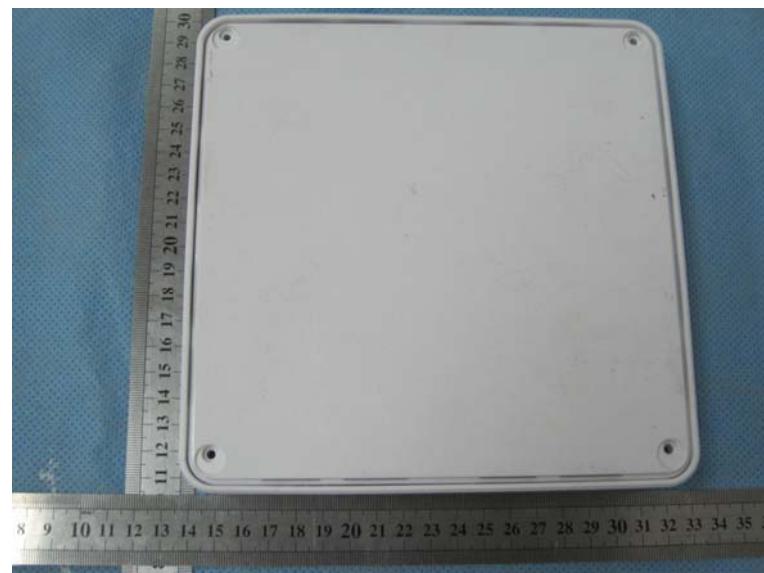
- (1) Measuring frequencies from 30 MHz to the 1 GHz.
- (2) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of EMI Test Receiver was 120KHz for measuring from 30 MHz to 1 GHz and 1 MHz for measuring above 1 GHz

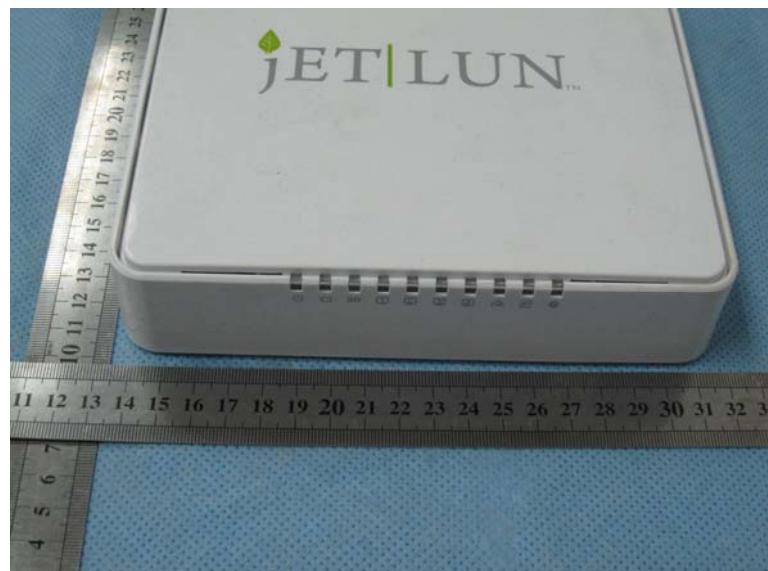
## 5. Test Setup Photos of the EUT



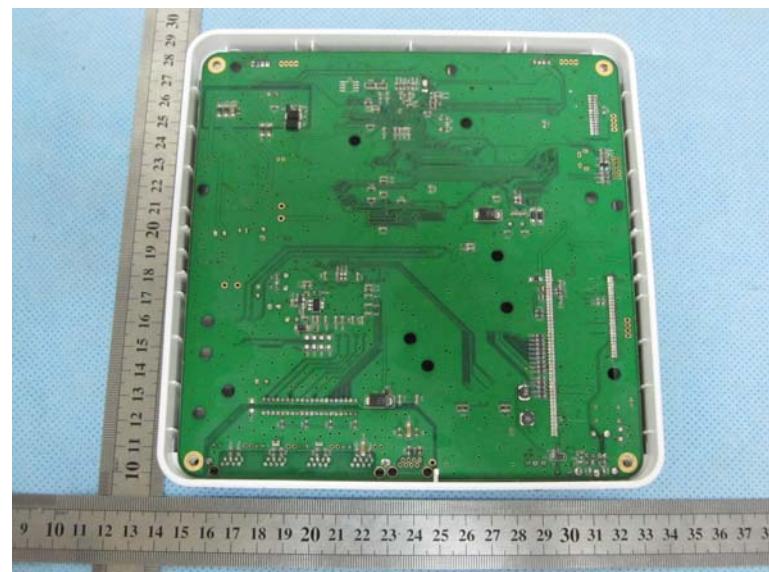
## 6. External and Internal Photos of the EUT

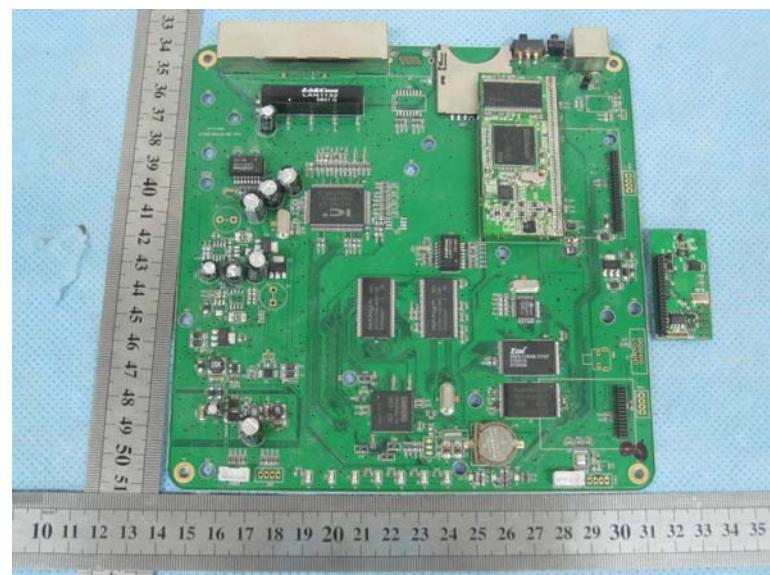
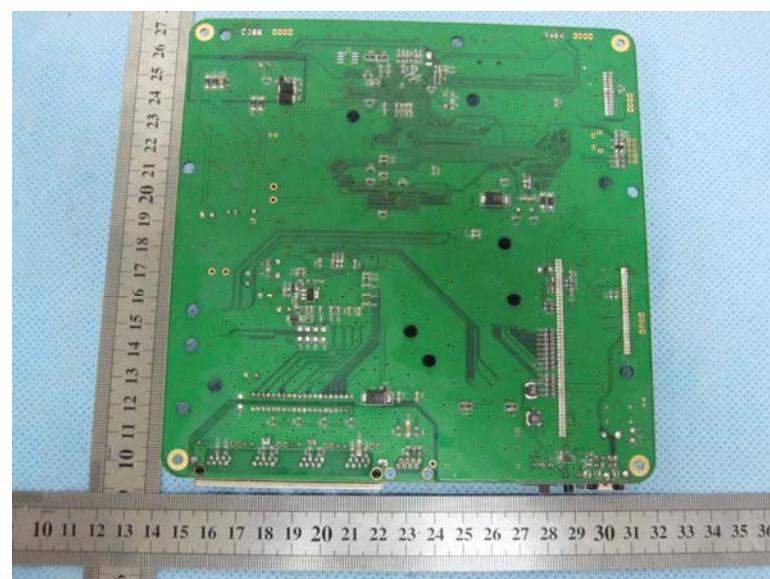
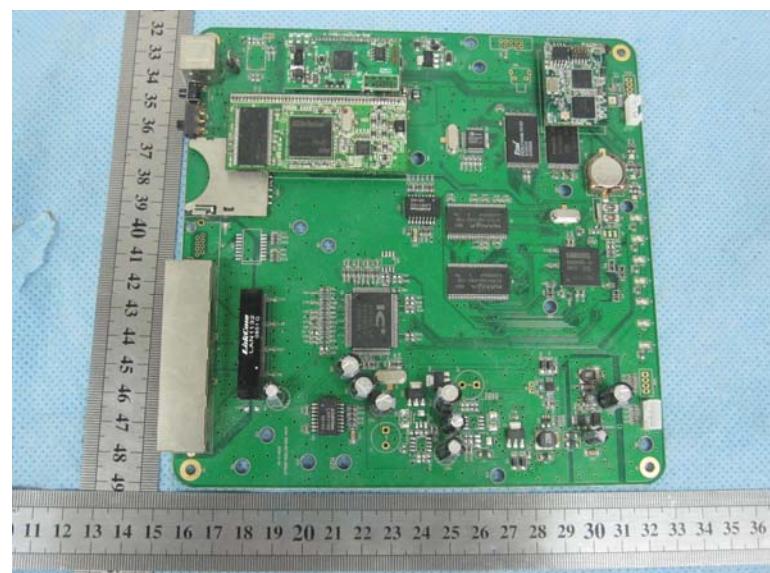
### External Photos

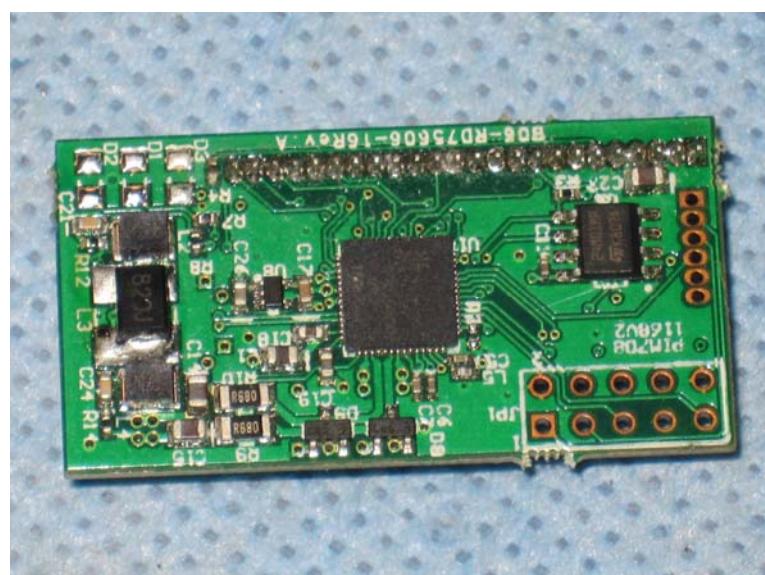
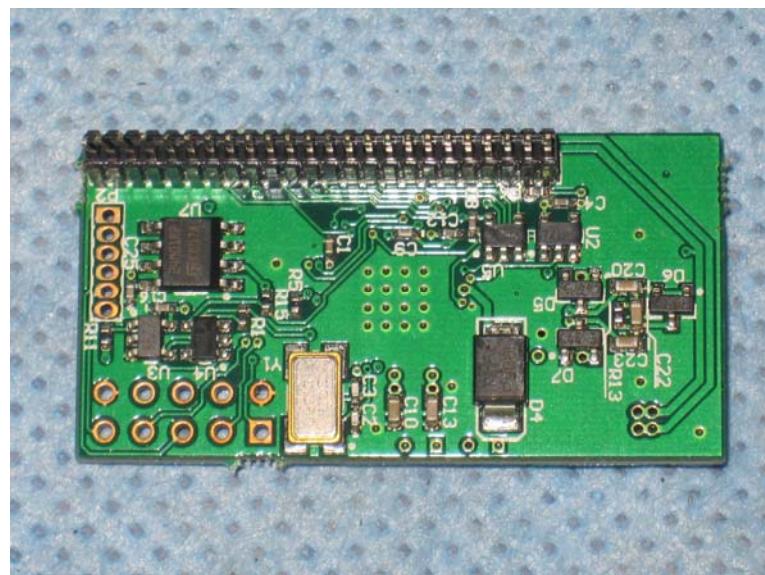


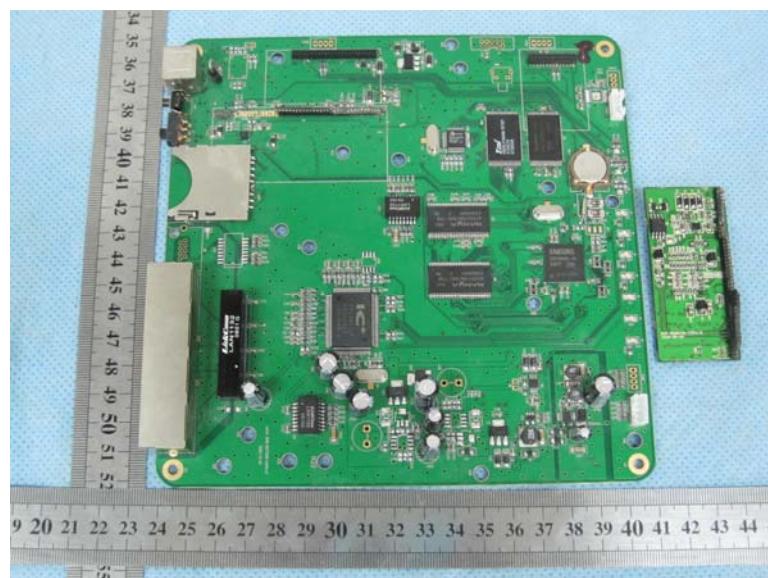
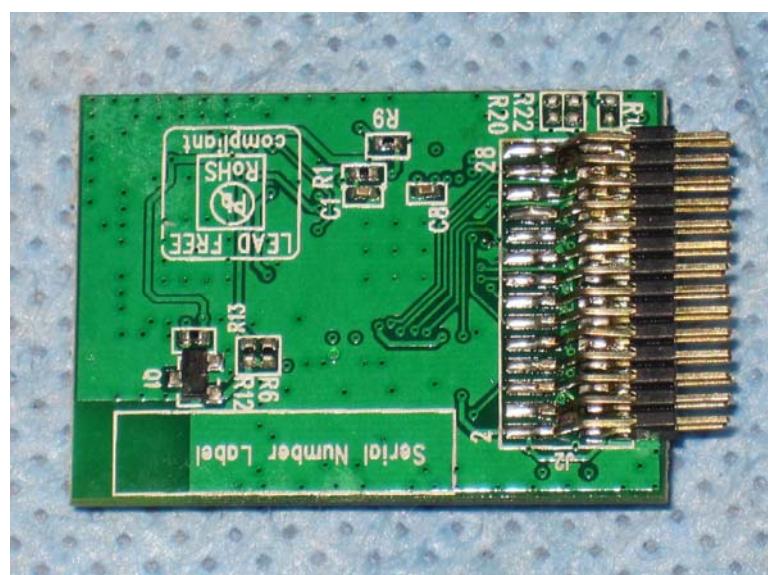
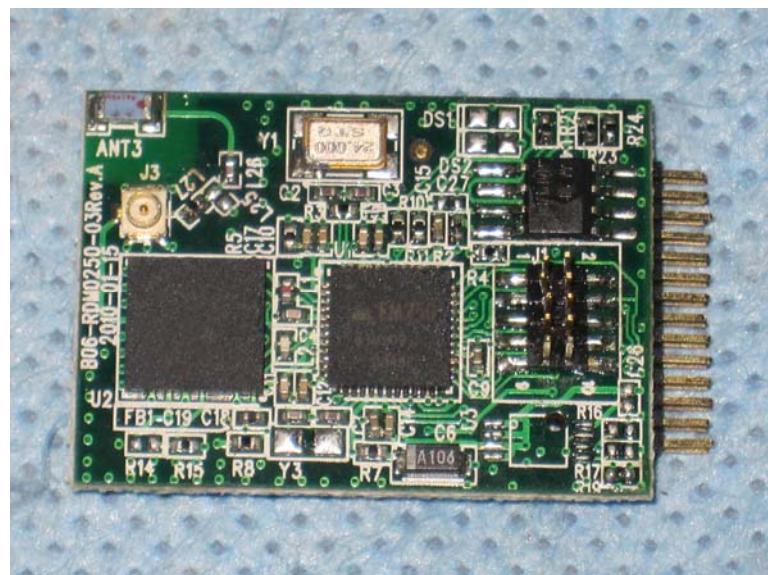


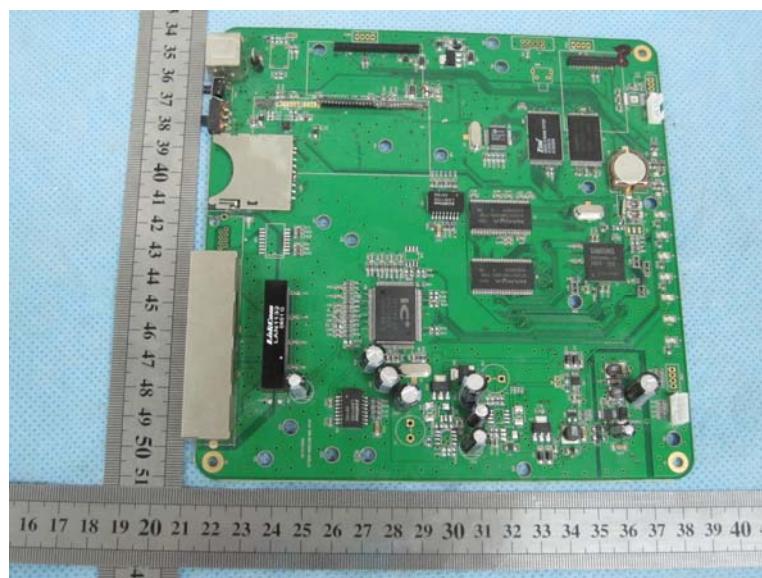


Internal Photos









.....End of Report.....