

DECLARATION OF CONFORMITY
On Behalf of
Cheng Fong International Limited

Tablet PC
Model No.: TB892B

Prepared for : Cheng Fong International Limited
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Report Number : 201208676F
Date of Test : Aug. 11~16, 2012
Date of Report : Aug. 16, 2012

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TEST REPORT VERIFICATION

Applicant : Cheng Fong International Limited
Manufacturer : Cheng Fong International Limited
EUT : Tablet PC
Model No. : TB892B
Rating : DC 5V
Trade Mark : N.A.

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B 2011 & FCC / ANSI C63.4-2009

The device described above is tested by Anbotek Compliance Laboratory Limited To determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both radiated and conducted emissions. The measurement results are contained in this test report and Anbotek Compliance Laboratory Limited Is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Anbotek Compliance Laboratory Limited

Date of Test : Aug. 11~16, 2012

Prepared by : Barak Ban
(Engineer/ Barak Ban)

Reviewer : Jerry Du
(Project Manager/ Jerry Du)

Approved & Authorized Signer : Tom. Chen
(Manager/ Tom Chen)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

| | |
|-------------------------|--|
| Description | : Tablet PC |
| Model Number | : TB892B |
| Test Power Supply | : DC 5V |
| Applicant | : Cheng Fong International Limited |
| Address | : Rm 19HG, HangDu Building, HuaFu Road, Fu Tian District |
| Manufacturer | : Cheng Fong International Limited |
| Address | : Rm 19HG, HangDu Building, HuaFu Road, Fu Tian District |
| Date of Sample received | : Aug. 11, 2012 |
| Date of Test | : Aug. 11~16, 2012 |

2. POWER LINE CONDUCTED MEASUREMENT

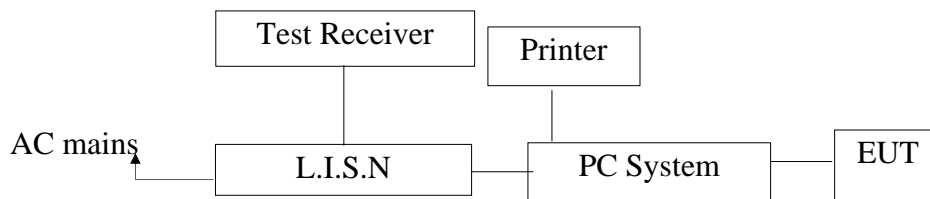
2.1. Test Equipment

The following test equipments are used during the power line conducted measurement:

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|--------------------|----------------------|-----------|------------|--------------|---------------|
| 1. | EMI Receiver | Rohde & Schwarz | ESCI | 100627 | Apr.25, 2012 | 1 Year |
| 2. | Two-Line V-network | Rohde & Schwarz | ENV216 | 10055 | Apr.25, 2012 | 1 Year |
| 3. | RF Switching Unit | Compliance Direction | RSU-M2 | 38303 | Apr.25, 2012 | 1 Year |
| 4. | EMI Test Software | ES-K1 | N/A | N/A | N/A | N/A |

2.2. Block Diagram of Test Setup

2.2.1. Block diagram of connection between the EUT and simulators



(EUT: Tablet PC)

2.3. Power Line Conducted Emission Measurement Limits (FCC Part 15

Class B)

| Frequency MHz | Limits dB(μV) | |
|------------------|------------------|---------------|
| | Quasi-peak Level | Average Level |
| 0.15 ~ 0.50 | 66 ~ 56* | 56 ~ 46* |
| 0.50 ~ 5.00 | 56 | 46 |
| 5.00 ~ 30.00 | 60 | 50 |

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

2.4. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

| | | |
|--------------|---|----------------------------------|
| EUT | : | Tablet PC |
| Model Number | : | TB892B |
| Applicant | : | Cheng Fong International Limited |

2.5. Operating Condition of EUT

- 2.5.1. Setup the EUT and simulator as shown as Section 2.2.
- 2.5.2. Turn on the power of all equipment.
- 2.5.3. Let the EUT work measure it.

2.6. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.4-2009 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9KHz.

The frequency range from 150KHz to 30MHz is checked.

The test result are reported on Section 2.7.

2.7. Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150KHz to 30 MHz is investigated.

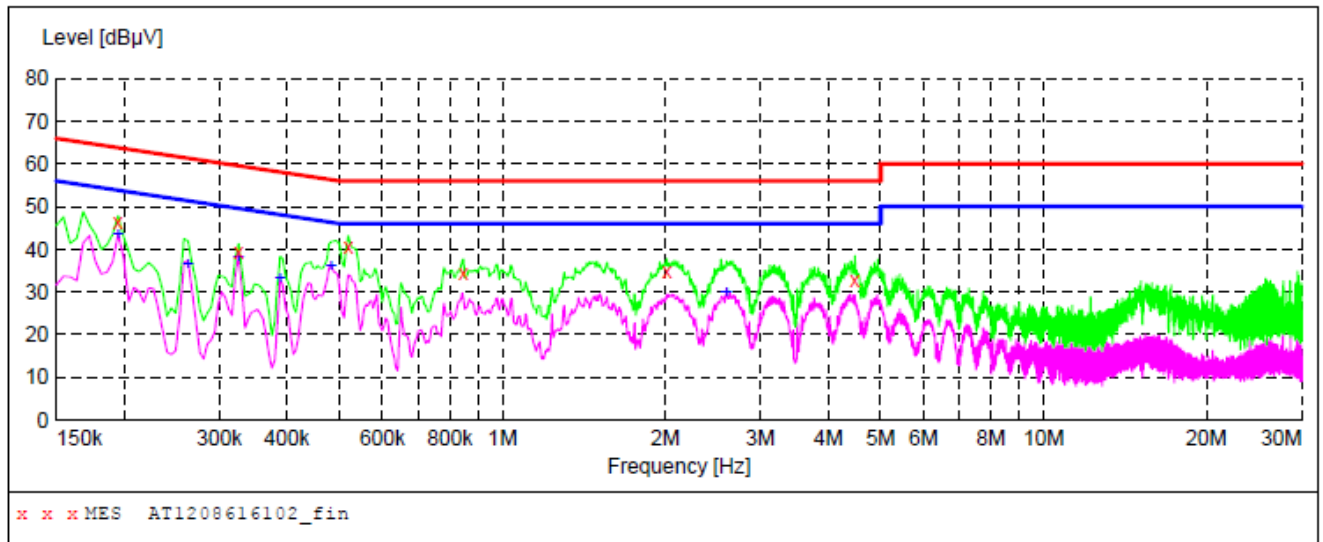
The test curves are shown in the following pages.

CONDUCTED EMISSION TEST DATA

EUT: Tablet PC M/N:TB892B
 Operating Condition: USB Charging and Playing
 Test Site: 1# Shielded Room
 Operator: Barak Ban
 Test Specification: DC 5V
 Comment: L
 Tem:25°C Hum:50%

SCAN TABLE: "Voltage (150K~30M) FIN"

Short Description: 150K-30M Disturbance Voltages

**MEASUREMENT RESULT: "AT1208616102_fin"**

8/13/2012 9:15AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.195000 | 46.20 | 20.1 | 64 | 17.6 | QP | L1 | GND |
| 0.325500 | 39.50 | 20.1 | 60 | 20.1 | QP | L1 | GND |
| 0.519000 | 40.60 | 20.1 | 56 | 15.4 | QP | L1 | GND |
| 0.847500 | 34.30 | 20.1 | 56 | 21.7 | QP | L1 | GND |
| 2.012500 | 34.90 | 20.3 | 56 | 21.1 | QP | L1 | GND |
| 4.483000 | 32.80 | 20.5 | 56 | 23.2 | QP | L1 | GND |

MEASUREMENT RESULT: "AT1208616102_fin2"

8/13/2012 9:15AM

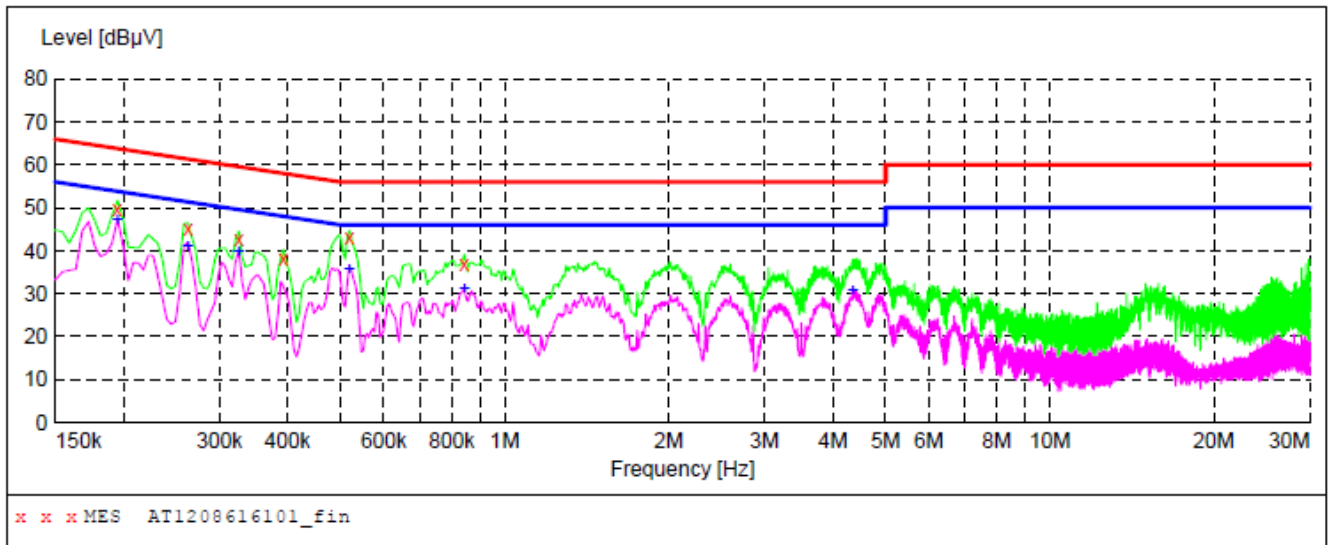
| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.195000 | 43.50 | 20.1 | 54 | 10.3 | AV | L1 | GND |
| 0.262500 | 36.50 | 20.1 | 51 | 14.9 | AV | L1 | GND |
| 0.325500 | 38.20 | 20.1 | 50 | 11.4 | AV | L1 | GND |
| 0.388500 | 33.20 | 20.1 | 48 | 14.9 | AV | L1 | GND |
| 0.483000 | 36.10 | 20.1 | 46 | 10.2 | AV | L1 | GND |
| 2.597500 | 29.80 | 20.4 | 46 | 16.2 | AV | L1 | GND |

CONDUCTED EMISSION TEST DATA

EUT: Tablet PC M/N:TB892B
 Operating Condition: USB Charging and Playing
 Test Site: 1# Shielded Room
 Operator: Barak Ban
 Test Specification: DC 5V
 Comment: N
 Tem:25°C Hum:50%

SCAN TABLE: "Voltage (150K~30M) FIN"

Short Description: 150K-30M Disturbance Voltages

**MEASUREMENT RESULT: "AT1208616101_fin"**

8/13/2012 9:11AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.195000 | 49.70 | 20.1 | 64 | 14.1 | QP | N | GND |
| 0.262500 | 45.00 | 20.1 | 61 | 16.4 | QP | N | GND |
| 0.325500 | 42.60 | 20.1 | 60 | 17.0 | QP | N | GND |
| 0.393000 | 38.30 | 20.1 | 58 | 19.7 | QP | N | GND |
| 0.519000 | 42.90 | 20.1 | 56 | 13.1 | QP | N | GND |
| 0.843000 | 37.00 | 20.1 | 56 | 19.0 | QP | N | GND |

MEASUREMENT RESULT: "AT1208616101_fin2"

8/13/2012 9:11AM

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.195000 | 47.10 | 20.1 | 54 | 6.7 | AV | N | GND |
| 0.262500 | 40.90 | 20.1 | 51 | 10.5 | AV | N | GND |
| 0.325500 | 40.00 | 20.1 | 50 | 9.6 | AV | N | GND |
| 0.519000 | 35.70 | 20.1 | 46 | 10.3 | AV | N | GND |
| 0.843000 | 31.20 | 20.1 | 46 | 14.8 | AV | N | GND |
| 4.348000 | 30.80 | 20.5 | 46 | 15.2 | AV | N | GND |

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

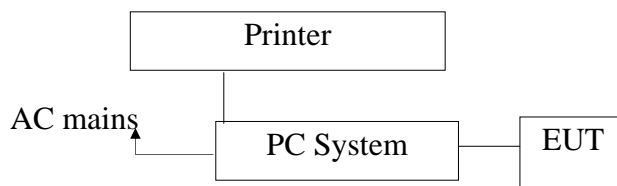
The following test equipments are used during the radiated emission measurement:

3.1.1. For Anechoic Chamber

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|-------------------|----------------------|-----------|------------|--------------|---------------|
| 1. | EMI Test Receiver | Rohde & Schwarz | ESCI | 101604 | Apr.25, 2012 | 1 Year |
| 2. | Bilog Antenna | Schwarzbeck | VULB9163 | 100015 | Apr.25, 2012 | 1 Year |
| 3. | Pre-amplifier | Compliance Direction | PAP-0203 | 22008 | Apr.25, 2012 | 1 Year |
| 4. | EMI Test Software | SHURPLE | N/A | N/A | N/A | N/A |
| 5. | Coaxial cable | ANBOTEK | N/A | N/A | N/A | N/A |

3.2. Block Diagram of Test Setup

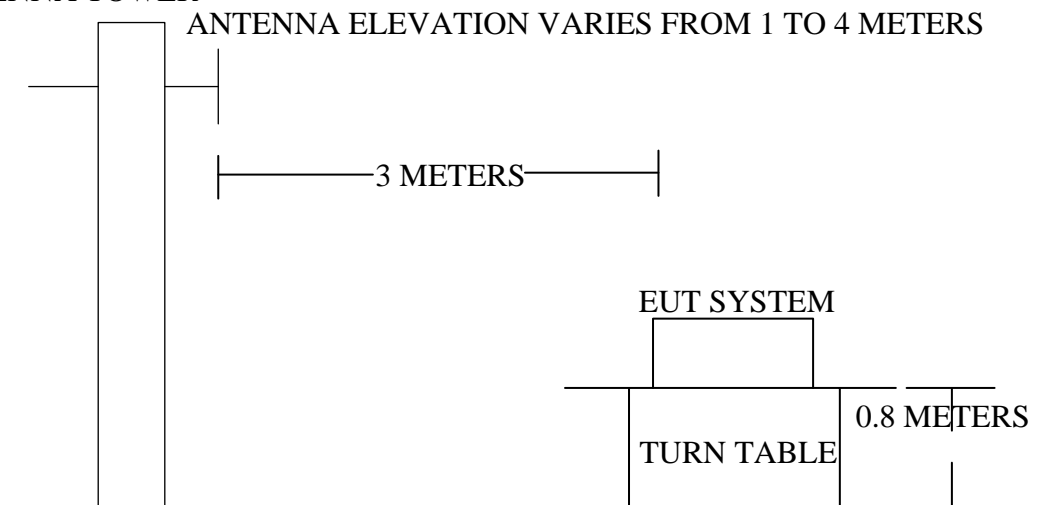
3.2.1. Block diagram of connection between the EUT and simulators



(EUT: Tablet PC)

3.2.2. Anechoic Chamber Test Setup Diagram

ANTENNA TOWER



(EUT: Tablet PC)

3.3. Radiated Emission Limit (Subpart B Class B)

| FREQUENCY MHz | DISTANCE Meters | FIELD STRENGTHS LIMIT | |
|------------------|--------------------|-----------------------|-----------------------------------|
| | | $\mu\text{V/m}$ | $\text{dB}(\mu\text{V})/\text{m}$ |
| 30~88 | 3 | 100 | 40.0 |
| 88~216 | 3 | 150 | 43.5 |
| 216~960 | 3 | 200 | 46.0 |
| 960~1000 | 3 | 500 | 54.0 |

- Remark :
- (1) Emission level $(\text{dB})\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

3.4. EUT Configuration on Measurement

The following equipments are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

EUT : Tablet PC
 Model Number : TB892B
 Applicant : Cheng Fong International Limited

3.5. Operating Condition of EUT

3.5.1. Setup the EUT as shown in Section 3.2.

3.5.2. Let the EUT work measure it.

3.6. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (Trilog Broadband Antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2009 on radiated emission measurement.

The bandwidth of the EMI test receiver (ESPI) is set at 120kHz.

The frequency range from 30MHz to 1000MHz is checked.

The test mode (USB Charging and Playing) is tested in chamber and all the test results are listed in Section 3.7.

3.7. Radiated Emission Measurement Results

PASS.

The test curves are shown in the following pages.

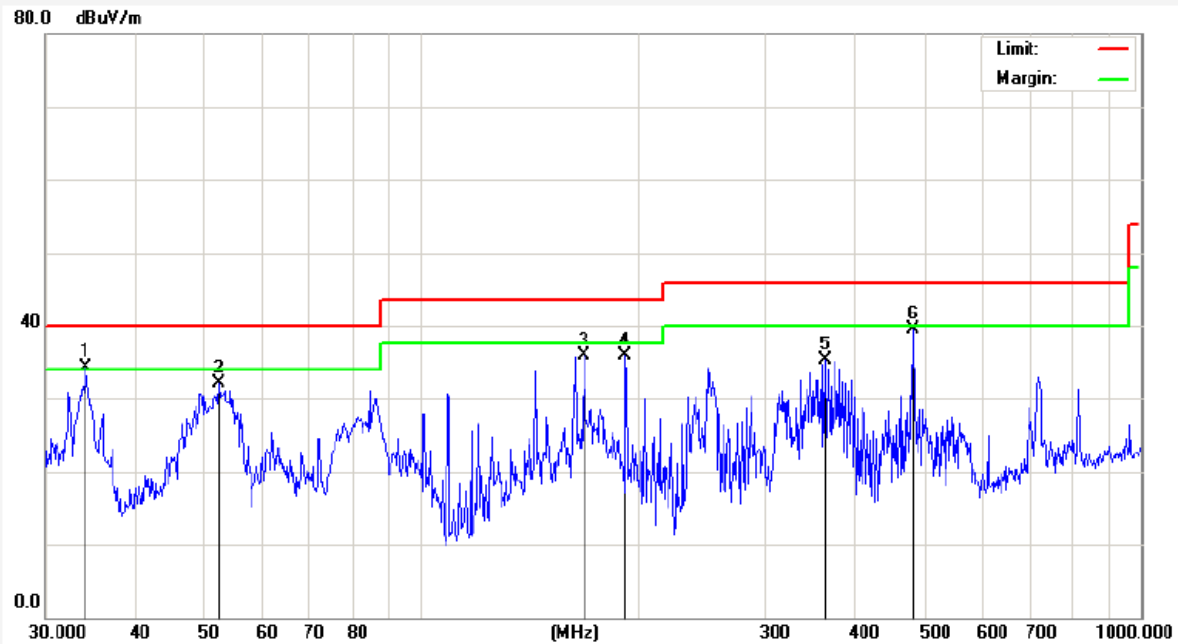
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| | | | |
|----------------------------|-----------------------------|----------------------|-------------------|
| Job No.: | AT1208616F | Polarization: | Horizontal |
| Standard: | (RE)FCC PART15 B _3m | Power Source: | DC 5V |
| Test item: | Radiation Test | Date: | 2012/08/11 |
| Temp.(C)/Hum.(%RH): | 24.3(C)/55%RH | Time: | 11:06:24 |
| EUT: | Tablet PC | Test By: | Barak Ban |
| Model: | TB892B | Distance: | 3m |

Note: USB Charging and Playing



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|------------------|---------------|-----------------|---------------|-----------------|----------|-------------|--------------|--------|
| 1 | 34.1561 | 62.09 | -27.79 | 34.30 | 40.00 | -5.70 | QP | 100 | 0 | |
| 2 | 52.2079 | 59.84 | -27.76 | 32.08 | 40.00 | -7.92 | peak | | | |
| 3 | 167.8243 | 69.06 | -33.18 | 35.88 | 43.50 | -7.62 | peak | | | |
| 4 | 191.7450 | 67.30 | -31.33 | 35.97 | 43.50 | -7.53 | peak | | | |
| 5 | 362.9844 | 58.93 | -23.70 | 35.23 | 46.00 | -10.77 | peak | | | |
| 6 | 480.5276 | 61.41 | -21.94 | 39.47 | 46.00 | -6.53 | peak | | | |

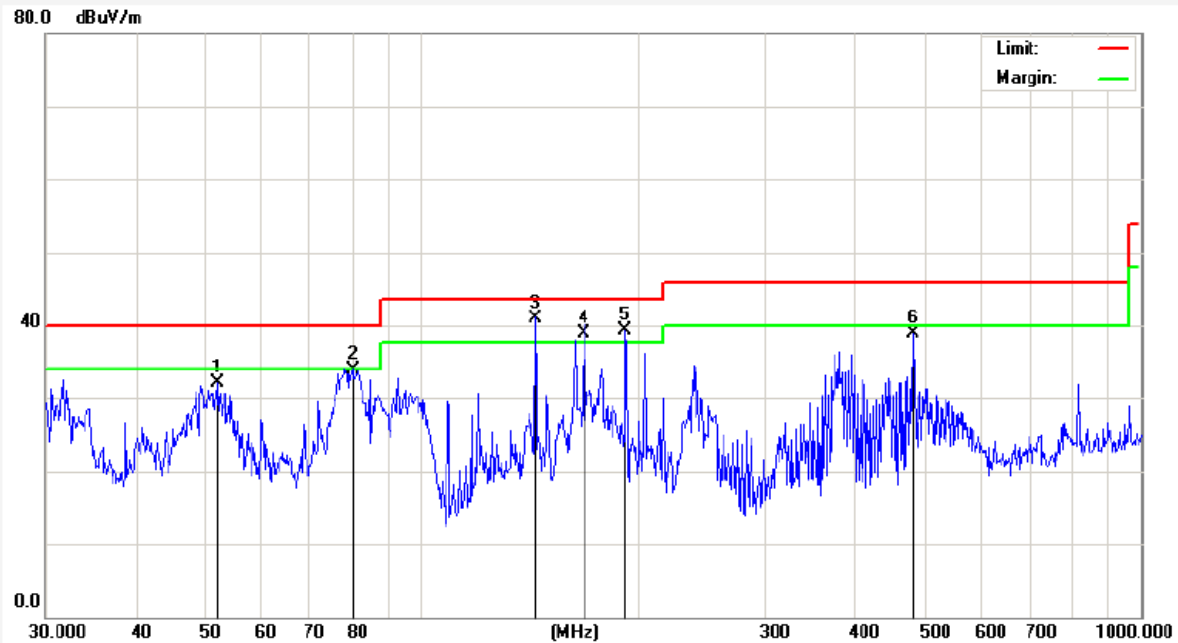

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| | | | |
|----------------------------|-----------------------------|----------------------|-------------------|
| Job No.: | AT1208616F | Polarziation: | Vertical |
| Standard: | (RE)FCC PART15 B _3m | Power Source: | DC 5V |
| Test item: | Radiation Test | Date: | 2012/08/11 |
| Temp.(C)/Hum.(%RH): | 24.3(C)/55%RH | Time: | 11:09:28 |
| EUT: | Tablet PC | Test By: | Barak Ban |
| Model: | TB892B | Distance: | 3m |

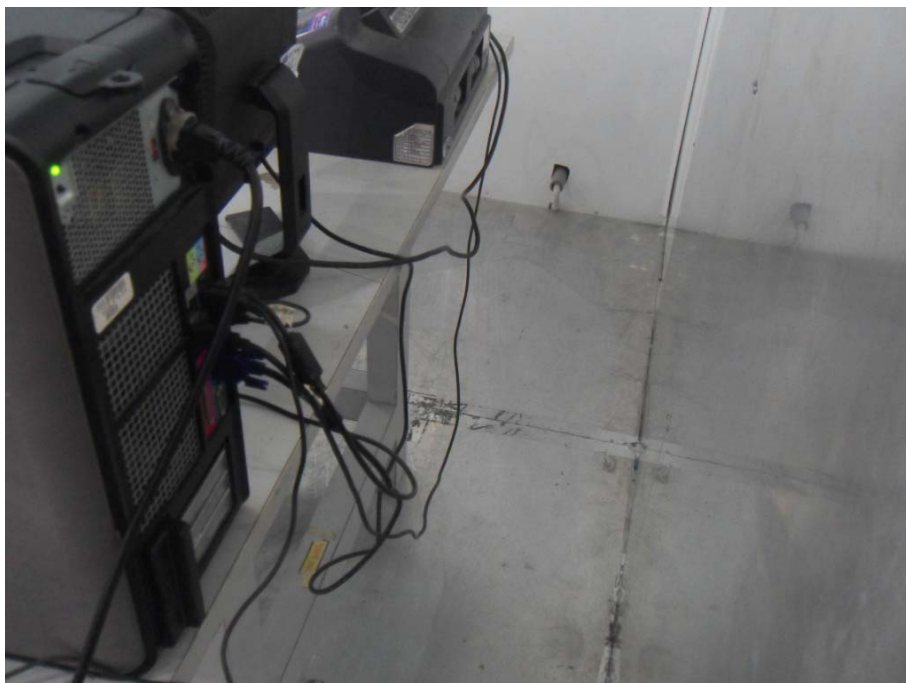
Note: USB Charging and Playing



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|------------------|---------------|-----------------|---------------|-----------------|----------|-------------|--------------|--------|
| 1 | 52.0251 | 59.77 | -27.75 | 32.02 | 40.00 | -7.98 | peak | | | |
| 2 | 80.0806 | 65.73 | -31.74 | 33.99 | 40.00 | -6.01 | peak | | | |
| 3 | 143.9995 | 69.95 | -29.10 | 40.85 | 43.50 | -2.65 | QP | 100 | 0 | |
| 4 | 167.8243 | 67.18 | -28.18 | 39.00 | 43.50 | -4.50 | QP | 100 | 360 | |
| 5 | 191.7450 | 65.65 | -26.33 | 39.32 | 43.50 | -4.18 | QP | 100 | 0 | |
| 6 | 480.5276 | 60.81 | -21.94 | 38.87 | 46.00 | -7.13 | peak | | | |

4. PHOTOGRAPH

4.1. Photo of Power Line Conducted Emission Test



4.2. Photo of Radiated Emission Test



Appendix I (External Photos)

Figure 1
The EUT-Overall View



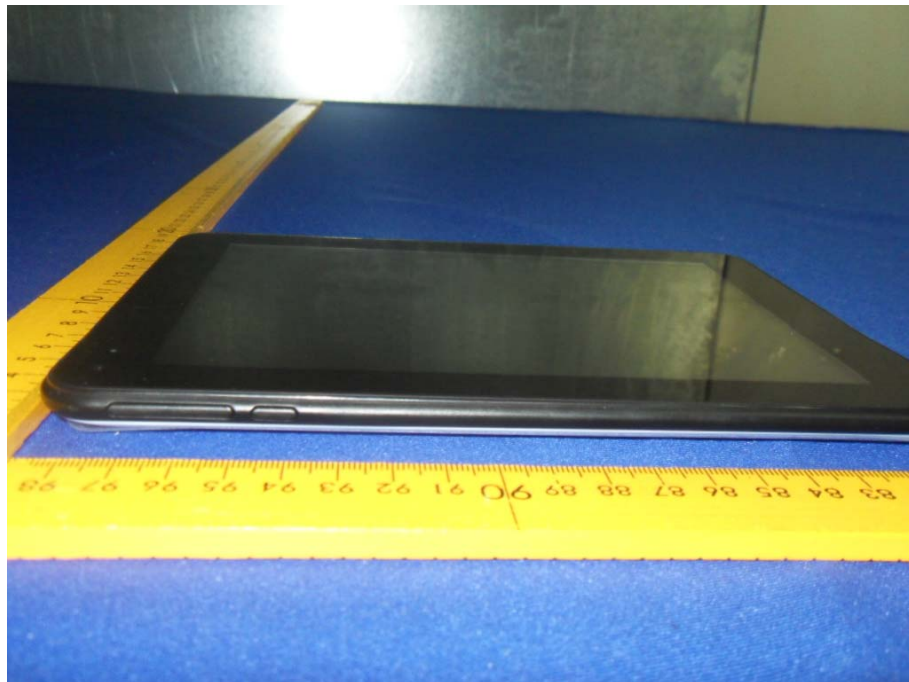
Figure 2
The EUT-Back View



Figure 3
The EUT-Side View



Figure 4
The EUT-Side View



Appendix II (Internal Photos)

Figure 5
The EUT-Inside View

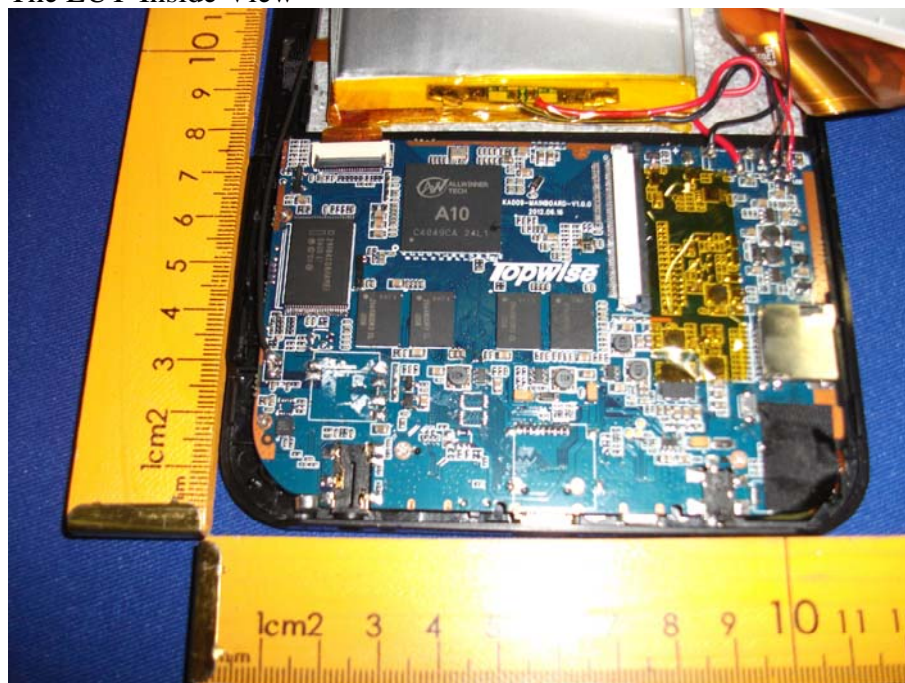


Figure 6
PCB of the EUT-Front View

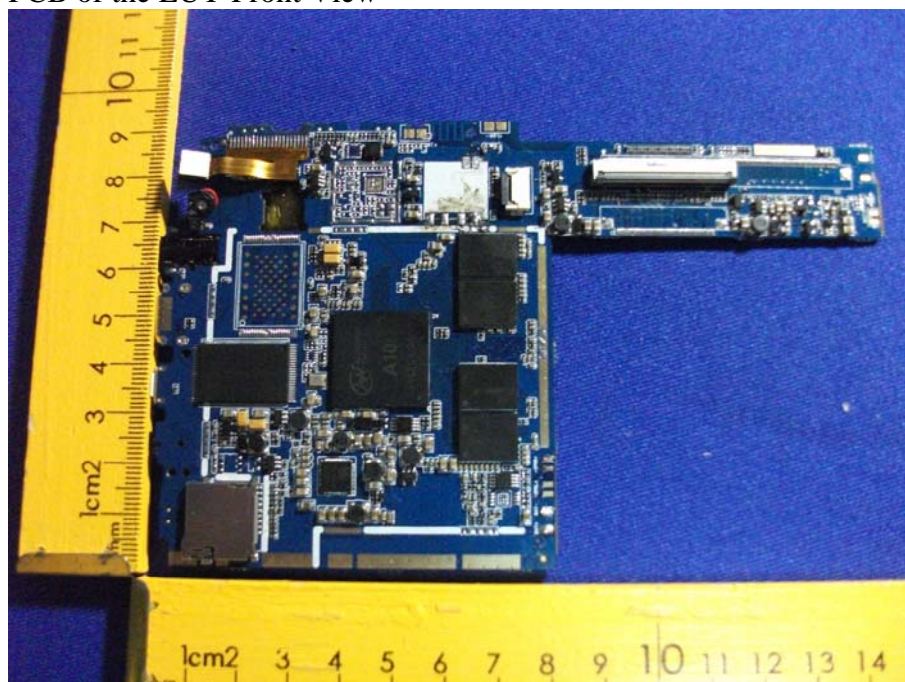


Figure 7
PCB of the EUT-Back View

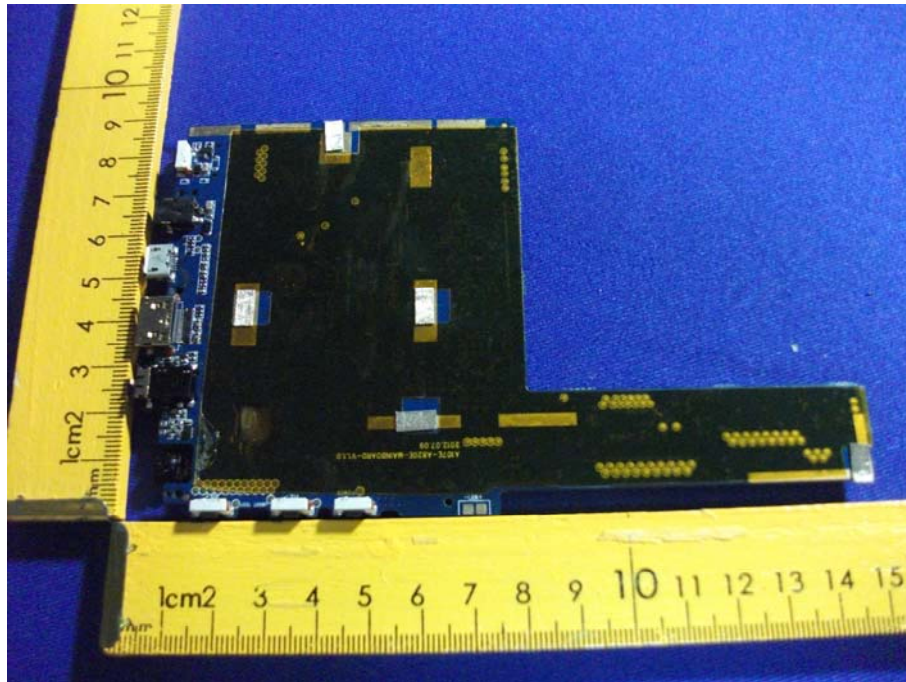


Figure 8
PCB of the EUT-Side View

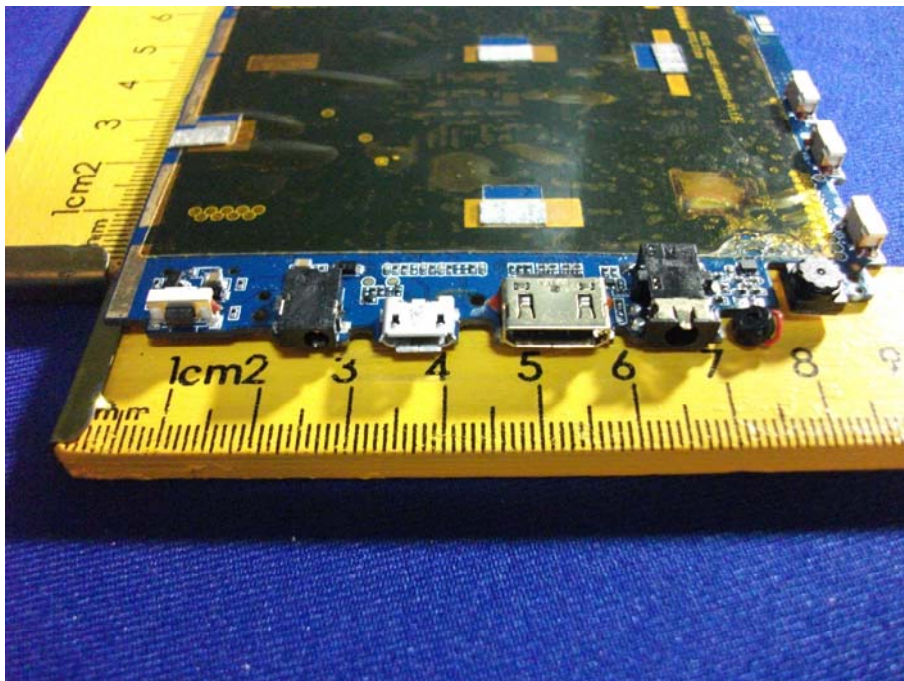


Figure 9
PCB of the WIFI Moudel FrontView

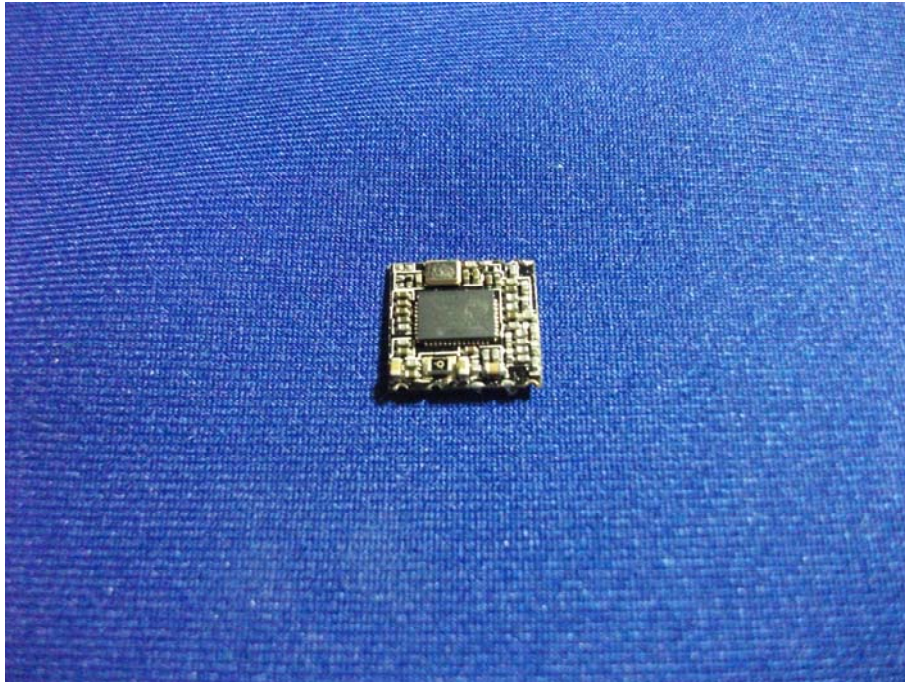


Figure 10
PCB of the WIFI Moudel Back View

