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FCC PART 15 SUBPART B TEST REPORT

FCC Part 15B

Report Reference No......: **CTL120113030-WF**

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Date of issue.....: March 31, 2012

Representative Laboratory Name ..: **Shenzhen CTL Electromagnetic Technology Co., Ltd.**

Address.....: Zone B, 4/F, Block 20, Guangqian Industrial Park, Longzhu Road, Nanshan, Shenzhen 518055 China.

Test Firm.....:

Bontek Compliance Testing Laboratory Ltd

Address.....:

1/F, Block East H-3, OCT Eastern Ind. Zone, Qiaocheng East Road, Nanshan, Shenzhen, China

Applicant's name.....:

POINT OF VIEW US LLC

Address.....:

8300 NW 53rd Road, DORAL, FL 33166 MIAMI

Test specification:

Standard: FCC Part 15B: Unintentional Radiators

TRF Originator: Shenzhen CTL Electromagnetic Technology Co., Ltd.

Master TRF: Dated 2011-01

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Test item description: MID

Trade Mark: Point of View

Model/Type reference.....: TAB-PLAYTABPRO

I/O Type of EUT: USB Port/ Earphone Port/ DC Input Port

I/O Q'TY: 1/ 1/ 1

Antenna Type.....: /

FCC ID.....: AHRTAB-PLAYTABPRO

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

TEST REPORT

| | | |
|--------------------------|------------------------|----------------|
| Test Report No. : | CTL120113030-WF | March 31, 2012 |
| | | Date of issue |

Equipment under Test : MID

Model /Type : TAB-PLAYTABPRO

Listed Models : /

Applicant : POINT OF VIEW US LLC

Address : 8300 NW 53rd Road, DORAL, FL 33166 MIAMI

Manufacturer : Shenzhen A&G Technology CO., Ltd.

Address : NO.7 Guangyang Industrial, Jian'an Road West, Emerson Avenue, High-tech Development, Fuyong Peace Village, Bao'an District, Shenzhen, China.

| | |
|--|-----------------|
| Test Result according to the standards on page 4: | Positive |
|--|-----------------|

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 PartB: Unintentional Radiators](#)

[ANCI C63.4: 2003](#)



2. SUMMARY

2.1. General Remarks

Date of receipt of test sample : Jan. 10, 2012

Testing commenced on : Jan. 11, 2012

Testing concluded on : Jan. 18, 2012

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)

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

The device is a MID, work frequency at 2.4~2.4835GHz, support 802.11bgn.

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

Serial number: Prototype

2.4. EUT operation mode

Test Mode:

1. The EUT has been tested under normal operating condition.
2. No test program used to control the EUT within testing.
3. EUT Function and Test Mode

The field strength of radiation emission was measured in the following position: EUT stand-up position (Y axis), lie-down position (X, Z axis).

The following data show only with the worst case setup.

The worst case of Y axis was reported.

Based on client request, all normal using modes of the normal function were tested but only the worst test data of the worst mode is reported by this report.

2.5. EUT configuration

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

- supplied by the manufacturer
- supplied by the lab

U-disk

Manufacturer : KINGSTON

Model No. : 4047412

Ear-phone

Manufacturer : Philip

Model No. : KY21-05

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

This submittal(s) (test report) is intended for **FCC ID: AHRTAB-PLAYTABPRO** filing to comply with of the FCC Part 15B Rules.

2.7. Modifications

No modifications were implemented to meet testing criteria.



3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Bontek Compliance Testing Laboratory Ltd
1/F, Block East H-3, OCT Eastern Ind. Zone, Qiaocheng East Road, Nanshan, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 (2003) and CISPR Publication 22.

3.2. Test Facility

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

IC Registration No.: 7631A

The 3m alternate test site of Bontek Compliance Testing Laboratory Ltd EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 7631A on March, 2011.

FCC-Registration No.: 338263

Bontek Compliance Testing Laboratory 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 338263, March 24, 2008.

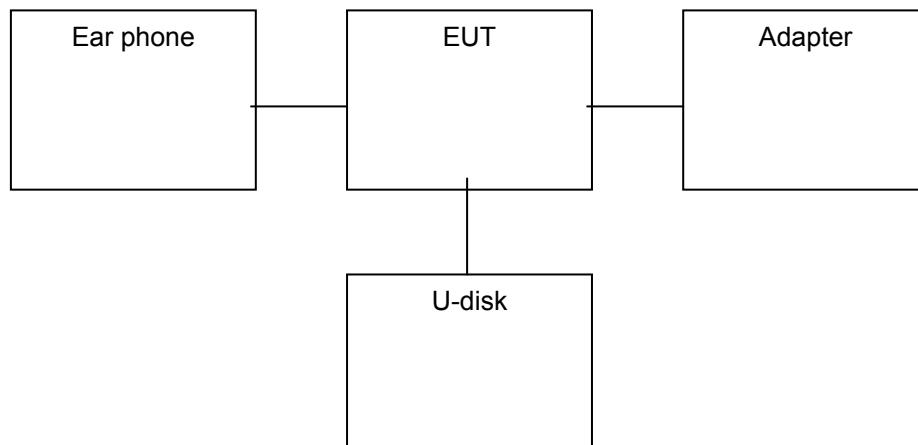
3.3. Environmental conditions

During 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



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 Bontek Compliance Testing Laboratory 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 Bontek laboratory is reported:

| Test | Range | Measurement Uncertainty | Notes |
|-----------------------|------------|-------------------------|-------|
| Radiated Emission | 30~1000MHz | 4.10dB | (1) |
| Radiated Emission | 1~12.75GHz | 4.32dB | (1) |
| Conducted Disturbance | 0.15~30MHz | 3.20dB | (1) |

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

3.6. Equipments Used during the Test

| Item | Test Equipment | Manufacturer | Model No. | Last Cal. | Due. Date |
|------|-----------------------------|-----------------|-----------------------|------------|------------|
| 1 | EMI Test Receiver | ROHDE & SCHWARZ | ESCI | 2011/04/14 | 2012/04/13 |
| 2 | Radio Communication Tester | ROHDE & SCHWARZ | CMU200 | 2011/04/14 | 2012/04/13 |
| 3 | Dual Directional Coupler | Agilent | 778D | 2011/04/14 | 2012/04/13 |
| 4 | 10dB attenuator | SCHWARZBECK | MTAIMP-136 | 2011/04/14 | 2012/04/13 |
| 5 | Tunable Bandreject filter | K&L | 3TNF-800 | 2011/04/14 | 2012/04/13 |
| 6 | Tunable Bandreject filter | K&L | 5TNF-1700 | 2011/04/14 | 2012/04/13 |
| 7 | High-Pass Filter | K&L | 9SH10-2700/X12750-O/O | 2011/04/14 | 2012/04/13 |
| 8 | High-Pass Filter | K&L | 41H10-1375/U12750-O/O | 2011/04/14 | 2012/04/13 |
| 9 | Coaxial Cable | Huber+Suhner | AC4-RF-H | 2011/04/14 | 2012/04/13 |
| 10 | AC Power Supply | IDRC | CF-500TP | 2011/04/14 | 2012/04/13 |
| 11 | DC Power Supply | IDRC | CD-035-020PR | 2011/04/14 | 2012/04/13 |
| 12 | RF Current Probe | FCC | F-33-4 | 2011/04/14 | 2012/04/13 |
| 13 | Temperature /Humidity Meter | zhicheng | ZC1-2 | 2011/04/14 | 2012/04/13 |
| 14 | MICROWAVE AMPLIFIER | HP | 8349B | 2011/04/14 | 2012/04/13 |
| 15 | Amplifier | HP | 8447D | 2011/04/14 | 2012/04/13 |
| 16 | SIGNAL GENERATOR | HP | 8647A | 2011/04/14 | 2012/04/13 |
| 17 | Log Periodic Antenna | ELECTRO-METRICS | EM-6950 | 2011/04/14 | 2012/04/13 |
| 18 | Loop Antenna | ROHDE & SCHWARZ | HFH2-Z2 | 2011/04/14 | 2012/04/13 |
| 19 | EMI Test Receiver | R&S | ESPI | 2011/04/14 | 2012/04/13 |

3.7. Summary of Test Result

No deviations from the test standards

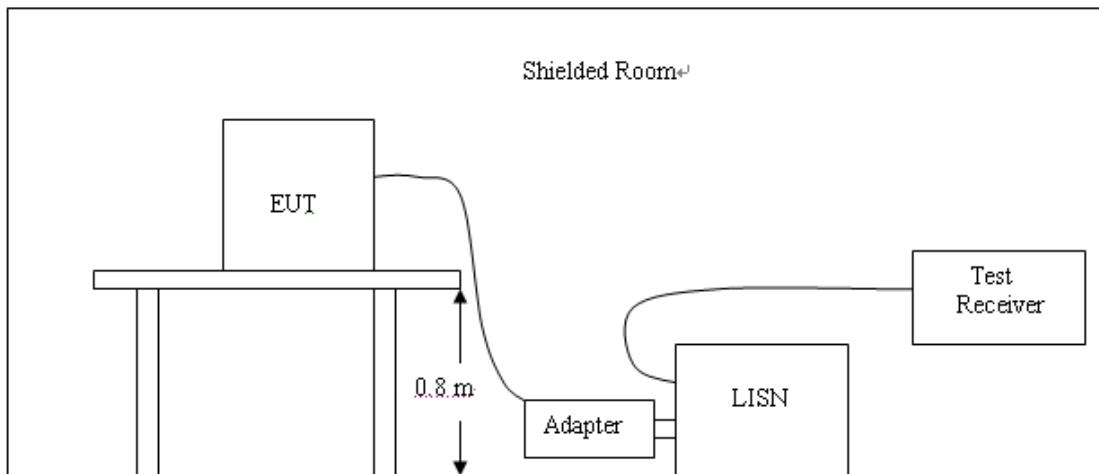
| Test Item | Test Requirement | Standard Paragraph | Result |
|--------------------|------------------|--------------------|--------|
| Radiated Emission | FCC PART 15 | Section 15.109 | PASS |
| Conducted Emission | FCC PART 15 | Section 15.107 | PASS |



4. TEST CONDITIONS AND RESULTS

4.1. Conducted Emissions Test

TEST CONFIGURATION



TEST PROCEDURE

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

| Frequency (MHz) | Maximum RF Line Voltage (dB μ 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

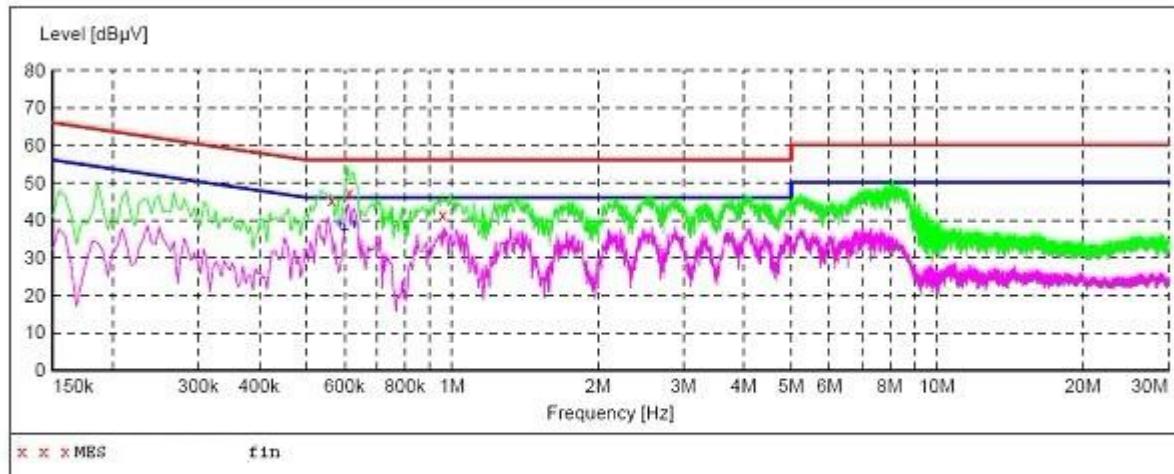
For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

1. Please follow the guidelines in ANSI C63.4-2003.
2. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN).
4. All the support units are connecting to the other LISN.
5. The LISN provides 50 ohm coupling impedance for the measuring instrument.
6. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
7. Both sides of AC line were checked for maximum conducted interference.
8. The frequency range from 150 kHz to 30 MHz was searched.
9. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

The RBW/VBW for 150KHz to 30MHz: 9KHz

TEST RESULTS

SCAN TABLE: "Voltage (9K-30M) FIN"
Short Description: 150K-30M Voltage

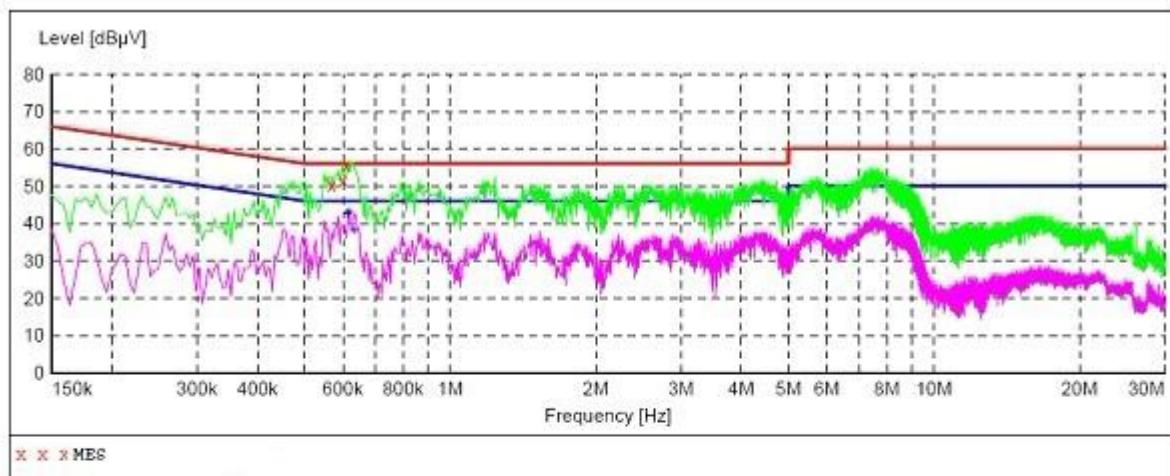
**MEASUREMENT RESULT:**

| Frequency MHz | Level dB μ V | Transd dB | Limit dB μ V | Margin dB | Detector | Line | PE |
|------------------|---------------------|--------------|---------------------|--------------|----------|------|-----|
| 0.564000 | 45.30 | 10.2 | 56 | 10.7 | QP | N | GND |
| 0.613500 | 47.50 | 10.2 | 56 | 8.5 | QP | N | GND |
| 0.955500 | 41.30 | 10.1 | 56 | 14.7 | QP | N | GND |

MEASUREMENT RESULT:

| Frequency MHz | Level dB μ V | Transd dB | Limit dB μ V | Margin dB | Detector | Line | PE |
|------------------|---------------------|--------------|---------------------|--------------|----------|------|-----|
| 0.586500 | 38.90 | 10.2 | 46 | 7.1 | AV | N | GND |
| 0.600000 | 37.50 | 10.2 | 46 | 8.5 | AV | N | GND |
| 0.627000 | 38.90 | 10.2 | 46 | 7.1 | AV | N | GND |

SCAN TABLE: "Voltage (9K-30M) FIN"
 Short Description: 150K-30M Voltage



MEASUREMENT RESULT:

| Frequency MHz | Level dB μ V | Transd dB | Limit dB μ V | Margin dB | Detector | Line | PE |
|------------------|---------------------|--------------|---------------------|--------------|----------|------|-----|
| 0.568500 | 50.20 | 10.2 | 56 | 5.8 | QP | L1 | GND |
| 0.600000 | 51.60 | 10.2 | 56 | 4.4 | QP | L1 | GND |
| 0.609000 | 55.40 | 10.2 | 56 | 0.6 | QP | L1 | GND |

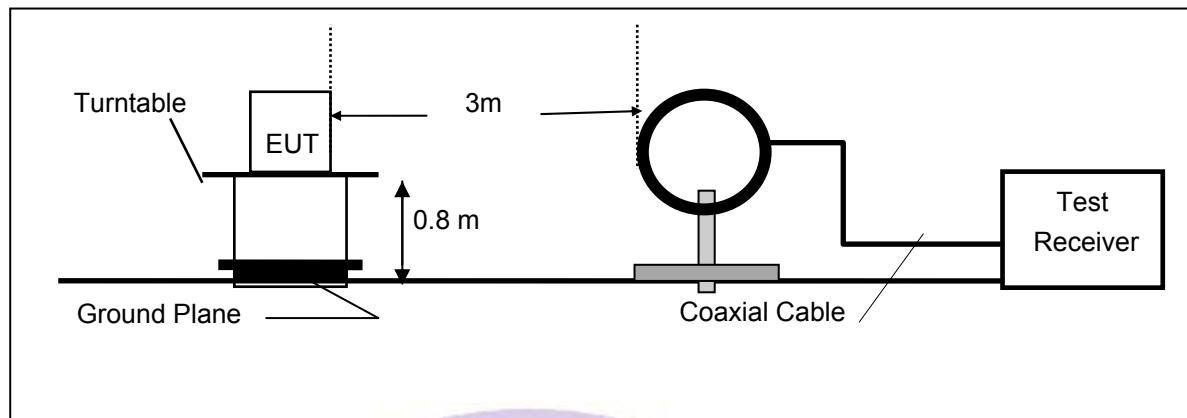
MEASUREMENT RESULT:

| Frequency MHz | Level dB μ V | Transd dB | Limit dB μ V | Margin dB | Detector | Line | PE |
|------------------|---------------------|--------------|---------------------|--------------|----------|------|-----|
| 0.613500 | 42.70 | 10.2 | 46 | 3.3 | AV | L1 | GND |
| 0.618000 | 43.00 | 10.2 | 46 | 3.0 | AV | L1 | GND |
| 0.636000 | 38.30 | 10.2 | 46 | 7.7 | AV | L1 | GND |

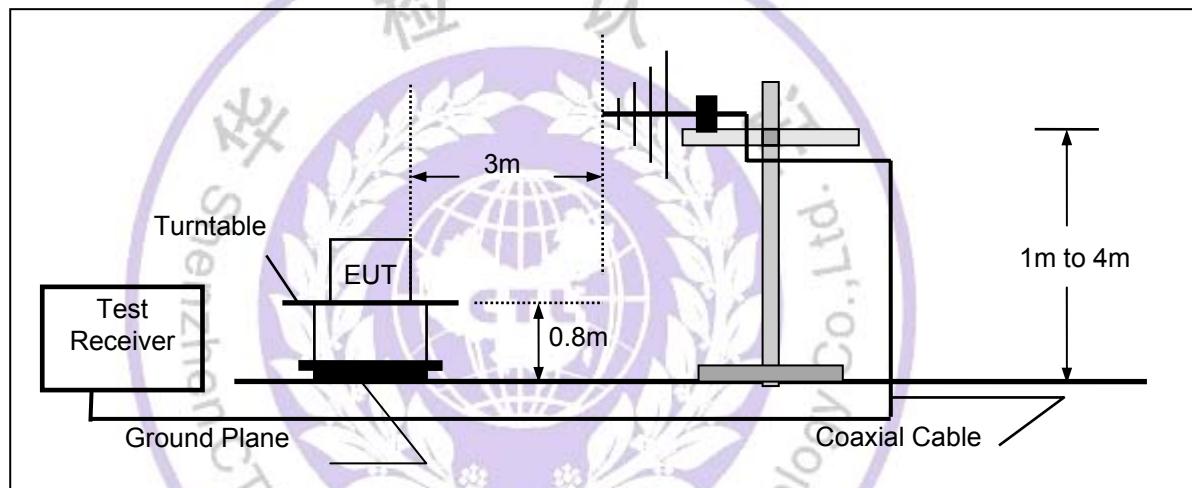
4.2. Radiated Emissions Test

TEST CONFIGURATION

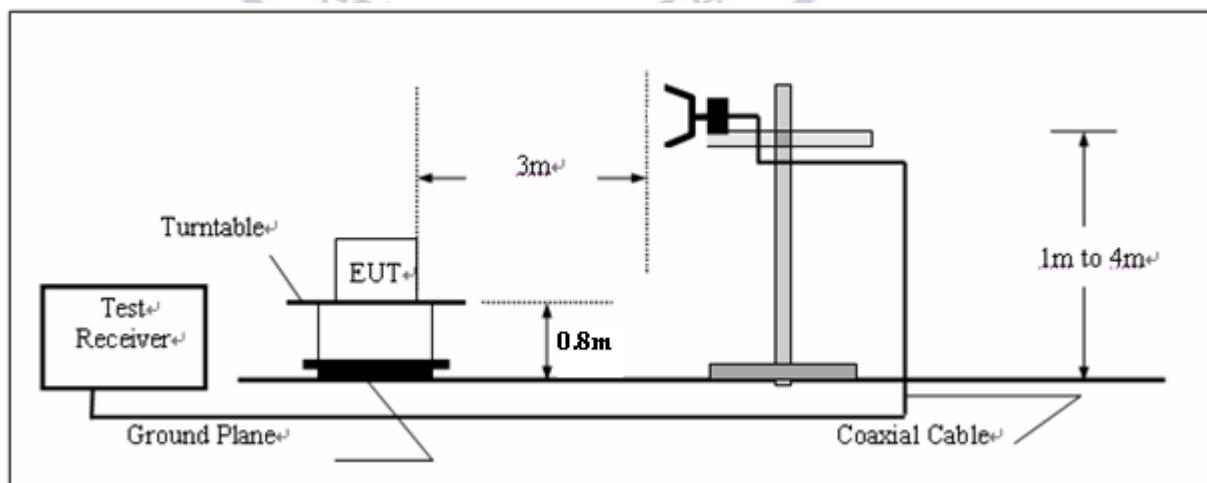
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



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



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



LIMIT

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|--------------------|--------------------------------------|----------------------------------|
| 0.009 – 0.490 | 2400/F(kHz) | 300 |
| 0.490 – 1.705 | 24000/F(kHz) | 30 |
| 1.705 – 30.0 | 30 | 30 |
| 30 – 88 | 100 | 3 |
| 88 – 216 | 150 | 3 |
| 216 – 960 | 200 | 3 |
| Above 960 | 500 | 3 |

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:

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

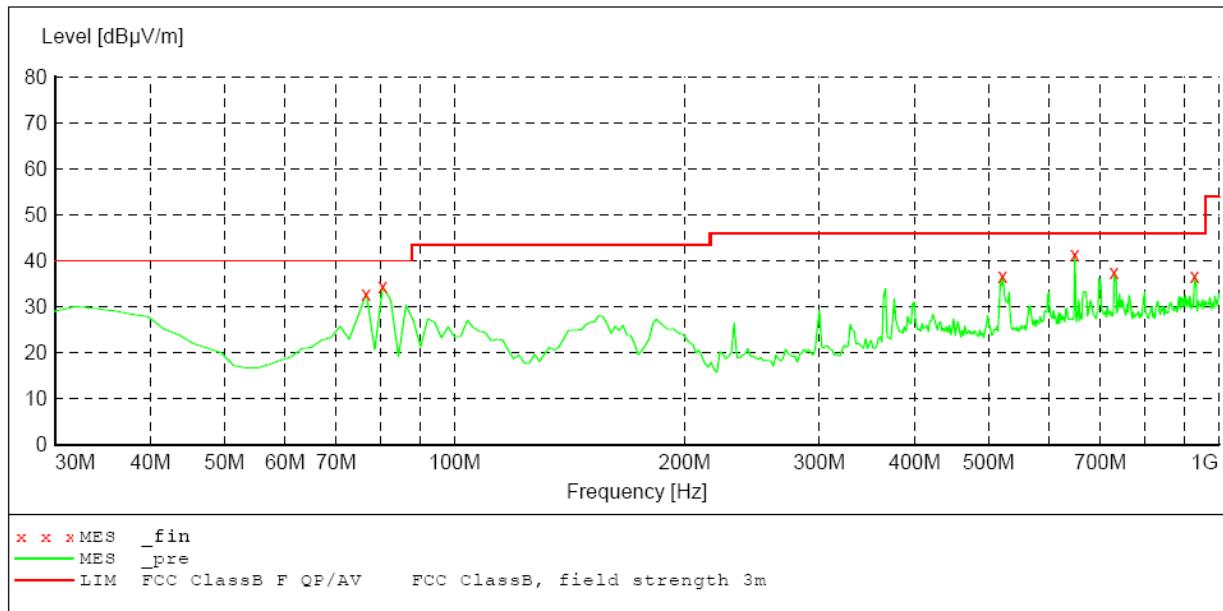
| | |
|---------------------------|--|
| Where FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude | AG = Amplifier Gain |
| AF = Antenna Factor | |

TEST PROCEDURE

1. The testing follows the guidelines in ANSI C63.4-2003
2. The EUT was placed on a turn table which is 0.8m above ground plane.
3. 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
4. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
5. Repeat above procedures until all frequency measurements have been completed.

TEST RESULTS***SCAN TABLE: "test Field(30M-1G) OP"***

| Short Description: | | Field Strength(30M-1G) | | | | |
|--------------------|----------------|------------------------|-----------|------------|-----------|------------|
| Start Frequency | Stop Frequency | Step Width | Detector | Meas. Time | IF Bandw. | Transducer |
| 30.0 MHz | 1.0 GHz | 60.0 kHz | QuasiPeak | 1.0 s | 120 kHz | HL562 10 |

**MEASUREMENT RESULT:**

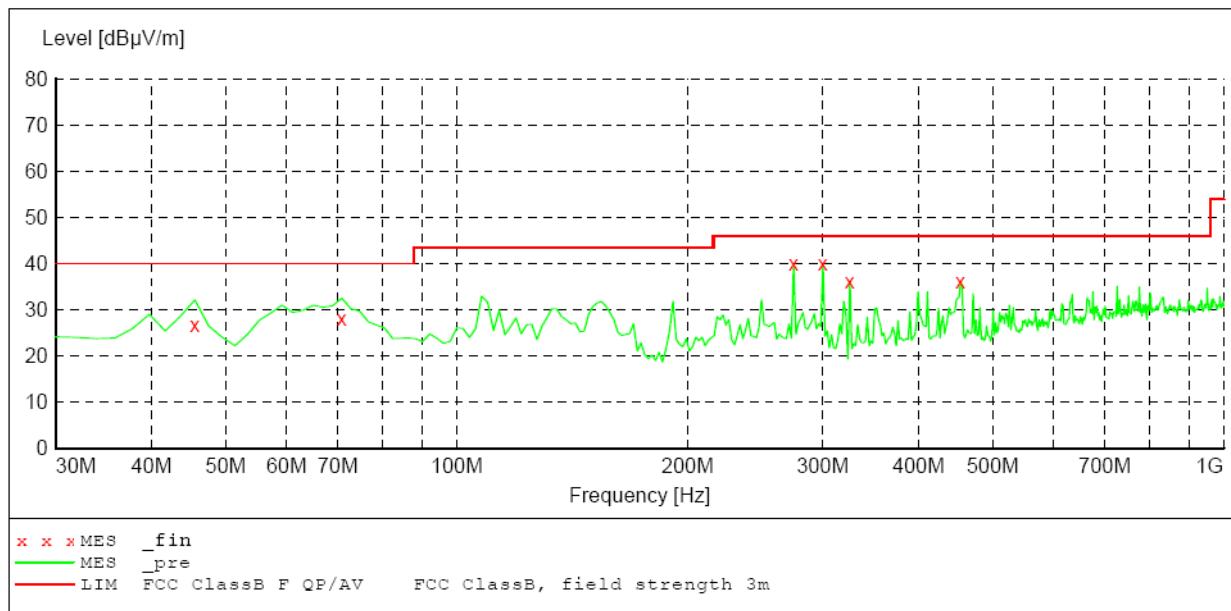
| Frequency MHz | Level dB μ V/m | Transd dB | Limit dB μ V/m | Margin dB | Det. | Height cm | Azimuth deg | Polarization |
|------------------|-----------------------|--------------|-----------------------|--------------|------|--------------|----------------|--------------|
| 76.650000 | 32.80 | 11.2 | 40.0 | 7.2 | QP | 300.0 | 197.00 | HORIZONTAL |
| 80.540000 | 34.40 | 11.4 | 40.0 | 5.6 | QP | 300.0 | 197.00 | HORIZONTAL |
| 521.800000 | 36.70 | 20.7 | 46.0 | 9.3 | QP | 100.0 | 140.00 | HORIZONTAL |
| 648.150000 | 41.30 | 23.4 | 46.0 | 4.7 | QP | 100.0 | 140.00 | HORIZONTAL |
| 729.790000 | 37.40 | 23.9 | 46.0 | 8.6 | QP | 100.0 | 210.00 | HORIZONTAL |
| 930.020000 | 36.70 | 25.5 | 46.0 | 9.3 | QP | 300.0 | 229.00 | HORIZONTAL |

Remark:

- (1) Measuring frequencies from 9KHz to the 1GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * 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.
- (4) Datas 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.
- (5) The test results from 9KHz to 25MHz are not reported because the emisssions levels that are 20dB below the official limit.
- (6) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 100KHz. Below 30MHz was 10KHz.

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

| Short Description: | | Field Strength(30M-1G) | | | |
|--------------------|----------------|------------------------|-----------|------------|-----------|
| Start Frequency | Stop Frequency | Step Width | Detector | Meas. Time | IF Bandw. |
| 30.0 MHz | 1.0 GHz | 60.0 kHz | QuasiPeak | 1.0 s | 120 kHz |
| | | | | | HL562 10 |

**MEASUREMENT RESULT:**

| Frequency MHz | Level dB μ V/m | Transd dB | Limit dB μ V/m | Margin dB | Det. | Height cm | Azimuth deg | Polarization |
|------------------|-----------------------|--------------|-----------------------|--------------|------|--------------|----------------|--------------|
| 45.550000 | 27.20 | 12.6 | 40.0 | 12.8 | QP | 300.0 | 158.00 | VERTICAL |
| 70.820000 | 28.50 | 10.7 | 40.0 | 11.5 | QP | 300.0 | 58.00 | VERTICAL |
| 274.920000 | 40.00 | 13.0 | 46.0 | 6.0 | QP | 100.0 | 209.00 | VERTICAL |
| 300.200000 | 40.00 | 13.8 | 46.0 | 6.0 | QP | 100.0 | 209.00 | VERTICAL |
| 325.470000 | 36.00 | 15.6 | 46.0 | 10.0 | QP | 100.0 | 209.00 | VERTICAL |
| 453.760000 | 36.10 | 20.1 | 46.0 | 9.9 | QP | 100.0 | 209.00 | VERTICAL |

Remark:

- (1) Measuring frequencies from 9KHz to the 1GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * 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.
- (4) Datas 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.
- (5) The test results from 9KHz to 25MHz are not reported because the emisssions levels that are 20dB below the official limit.
- (6) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 100KHz. Below 30MHz was 10KHz.

5. Test Setup Photos of the EUT



6. External and Internal Photos of the EUT

External Photos



Internal Photos

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