



# FCC TEST REPORT

**REPORT NO.:** RF940831L06B

**MODEL NO.:** WET54G ver.3.1

**RECEIVED:** Jan. 09, 2007

**TESTED:** Feb. 26 ~ Apr. 02, 2007

**ISSUED:** Apr. 04, 2007

**APPLICANT:** Cisco-Linksys LLC

**ADDRESS:** 121 Theory Drive Irvine, CA 92617 (USA)

**ISSUED BY:** Advance Data Technology Corporation

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**TEST LOCATION:** No. 19, Hwa Ya 2<sup>nd</sup> Rd., Wen Hwa Tsuen, Kwei  
Shan Hsiang, Taoyuan Hsien 333, Taiwan,  
R.O.C.

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## 1 CERTIFICATION

**PRODUCT :** Wireless-G Ethernet Bridge  
**MODEL NO.:** WET54G ver.3.1  
**BRAND:** Linksys  
**APPLICANT :** Cisco-Linksys LLC  
**TESTED:** Feb. 26 ~ Apr. 02, 2007  
**TEST SAMPLE:** ENGINEERING SAMPLE  
**STANDARDS :** FCC Part 15, Subpart C (Section 15.247),  
ANSI C63.4-2003

The above equipment (Model: WET54G ver.3.1) have been tested by **Advance Data Technology Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**PREPARED BY** : Andrea Hsia, **DATE:** Apr. 04, 2007  
Andrea Hsia

**TECHNICAL  
ACCEPTANCE** : Long Chen, **DATE:** Apr. 04, 2007  
Responsible for RF  
Long Chen

**APPROVED BY** : Gary Chang, **DATE:** Apr. 04, 2007  
Gary Chang / Supervisor



## 2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC Part 15, Subpart C |  |        |   |
|--|--|--------|---|
| Standard Section                         | Test Type and Limit  | Result | REMARK  |
| 15.207                                   | AC Power Conducted Emission  | PASS   | Meet the requirement of limit.<br>Minimum passing margin is<br>-10.48dB at 24.352MHz. |
| 15.247(a)(2)                             | Spectrum Bandwidth of a Direct Sequence Spread Spectrum System<br>Limit : min. 500kHz      | NA     | NA  |
| 15.247(b)                                | Maximum Peak Output Power<br>Limit: max. 30dBm   | NA     | NA  |
| 15.247(d)                                | Transmitter Radiated Emissions<br>Limit: Table 15.209                                      | PASS   | Meet the requirement of limit.<br>Minimum passing margin is<br>-1.36dB at 41.57MHz.   |
| 15.247(e)                                | Power Spectral Density<br>Limit: max. 8dBm   | NA     | NA  |
| 15.247(d)                                | Band Edge Measurement<br>Limit: 20 dB less than the peak value<br>of fundamental frequency | NA     | NA  |

### 2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4:

| Measurement         | Frequency       | Uncertainty |
|---------------------|-----------------|-------------|
| Conducted emissions | 9kHz~30MHz      | 2.44 dB     |
| Radiated emissions  | 30MHz ~ 200MHz  | 3.62 dB     |
|                     | 200MHz ~1000MHz | 3.64 dB     |
|                     | 1GHz ~ 18GHz    | 2.26 dB     |
|                     | 18GHz ~ 40GHz   | 1.94 dB     |

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



### 3 GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

|                       |   |
|-----------------------|---|
| PRODUCT               | Wireless-G Ethernet Bridge                                      |
| MODEL NO.             | WET54G ver.3.1  |
| FCC ID                | Q87-WET54GV3  |
| POWER SUPPLY          | 5.0Vdc from AC adapter<br>48.0Vdc from POE                      |
| MODULATION TYPE       | CCK, DQPSK, DBPSK for DSSS<br>64QAM, 16QAM, QPSK, BPSK for OFDM |
| MODULATION TECHNOLOGY | DSSS, OFDM  |
| TRANSFER RATE         | 802.11b: 11/5.5/2/1Mbps<br>802.11g: 54/48/36/24/18/12/9/6Mbps   |
| FREQUENCY RANGE       | 2412MHz ~ 2462MHz   |
| NUMBER OF CHANNEL     | 11  |
| OUTPUT POWER          | 50.933mW  |
| ANTENNA TYPE          | Dipole antenna with 2dBi gain                                   |
| DATA CABLE            | NA  |
| I/O PORTS             | RJ45  |
| ASSOCIATED DEVICES    | Adapter   |

#### NOTE:

1. This report is issued as a supplementary report of ADT report no.: RF940831L06. This report is prepared for FCC class II permissive change. The differences compared with the original design are adding a new adapter and changing the model name and component (Layout and RF design didn't change). Therefore we re-tested the conduction emission test and radiation emission test and presented in the test report.
2. RF output power is the same as the original test report.
3. The EUT was tested with the following adapter:

|             |   |
|-------------|---|
| BRAND:      | Linksys                                 |
| MODEL:      | AD5V/2A-SW                              |
| INPUT:      | 100-120Vac, 60Hz, 0.5A                  |
| OUTPUT:     | 5.0Vdc, 2.0A                            |
| POWER LINE: | DC 1.8m non-shielded cable without core |

4. The EUT, operates in the 2.4GHz frequency range, lets you connect IEEE 802.11g or IEEE 802.11b devices to the network. With its high-speed data transmissions of up to 54Mbps.
5. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

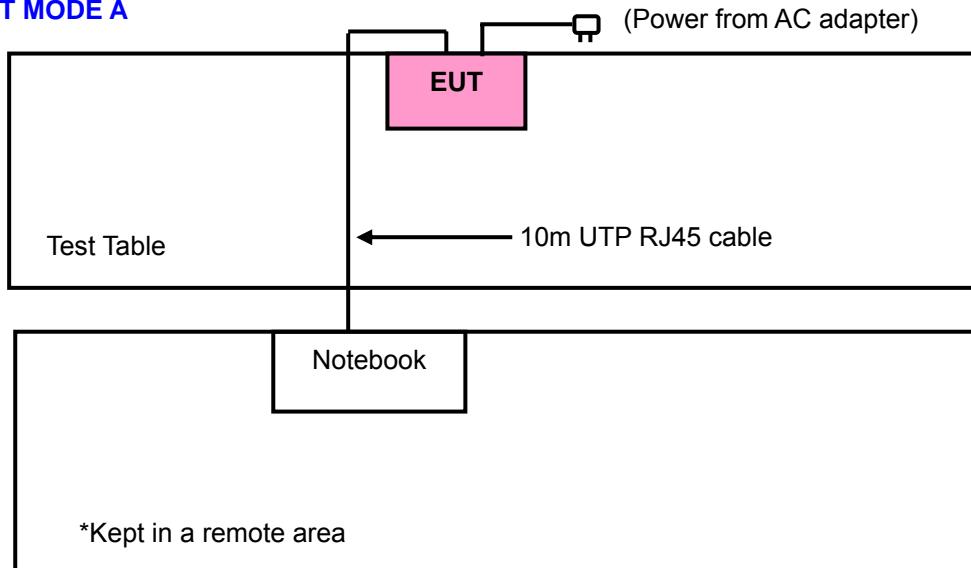
### 3.2 DESCRIPTION OF TEST MODES

Eleven channels are provided to this EUT.

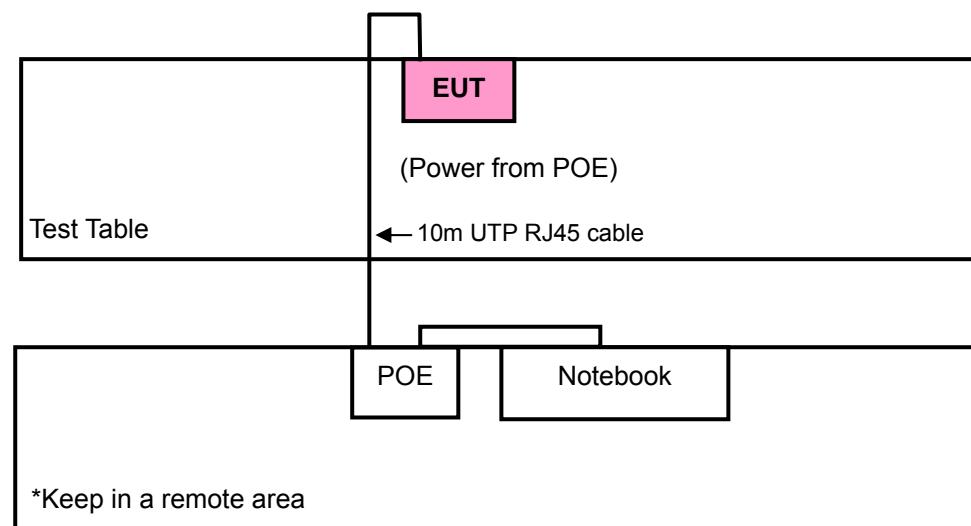
| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 1       | 2412 MHz  | 7       | 2442 MHz  |
| 2       | 2417 MHz  | 8       | 2447 MHz  |
| 3       | 2422 MHz  | 9       | 2452 MHz  |
| 4       | 2427 MHz  | 10      | 2457 MHz  |
| 5       | 2432 MHz  | 11      | 2462 MHz  |
| 6       | 2437 MHz  |         |           |

#### 3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

##### TEST MODE A



##### TEST MODE B



### 3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

| EUT<br>configure<br>mode | Applicable to |       |       | Description           |
|--------------------------|---------------|-------|-------|-----------------------|
|                          | PLC           | RE<1G | RE≥1G |                       |
| A                        | √             | √     | √     | Power from AC Adapter |
| B                        | √             | √     | -     | Power from POE        |

Where **PLC**: Power Line Conducted Emission

**RE<1G**: Radiated Emission below 1GHz

**RE≥1G**: Radiated Emission above 1GHz

**APCM**: Antenna Port Conducted Measurement

**Note**: “-” means no effect.

#### Power Line Conducted Emission Test:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

| EUT<br>configure<br>mode | Mode    | Available<br>Channel | Tested<br>Channel | Modulation<br>Technology | Modulation<br>Type | Data Rate<br>(Mbps) |
|--------------------------|---------|----------------------|-------------------|--------------------------|--------------------|---------------------|
| A                        | 802.11g | 1 to 11              | 1, 6, 11          | OFDM                     | BPSK               | 6                   |
| B                        | 802.11g | 1 to 11              | 1, 6, 11          | OFDM                     | BPSK               | 6                   |

#### Radiated Emission Test (Below 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

| EUT<br>configure<br>mode | Mode    | Available<br>Channel | Tested<br>Channel | Modulation<br>Technology | Modulation<br>Type | Data Rate<br>(Mbps) |
|--------------------------|---------|----------------------|-------------------|--------------------------|--------------------|---------------------|
| A                        | 802.11g | 1 to 11              | 11                | OFDM                     | BPSK               | 6                   |
| B                        | 802.11g | 1 to 11              | 11                | OFDM                     | BPSK               | 6                   |

#### Radiated Emission Test (Above 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

| EUT<br>configure<br>mode | Mode    | Available<br>Channel | Tested<br>Channel | Modulation<br>Technology | Modulation<br>Type | Data Rate<br>(Mbps) |
|--------------------------|---------|----------------------|-------------------|--------------------------|--------------------|---------------------|
| A                        | 802.11b | 1 to 11              | 1, 11             | DSSS                     | DBPSK              | 1                   |
| A                        | 802.11g | 1 to 11              | 1, 11             | OFDM                     | BPSK               | 6                   |



### 3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**FCC Part 15, Subpart C. (15.247)**  
**ANSI C63.4-2003**

All test items have been performed and recorded as per the above standards.

**NOTE:** The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

### 3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| NO. | PRODUCT           | BRAND   | MODEL NO. | SERIAL NO.  | FCC ID    |
|-----|-------------------|---------|-----------|-------------|-----------|
| 1   | NOTEBOOK COMPUTER | DELL    | PP05L     | 12130898320 | E2K24CLNS |
| 2   | DC POWER SUPPLY   | Topward | 6603D     | 713072      | NA        |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS |
|-----|---|
| 1   | NA  |
| 2   | 1.0m Shielded cable.                                |

**NOTE:**

1. All power cords of the above support units are non shielded (1.8m).
2. Item 1 ~ 2 acted as communication partners to transfer data.
3. Item 2 was supplied from client.



## 4 TEST TYPES AND RESULTS

### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

| FREQUENCY OF EMISSION (MHz) | CONDUCTED LIMIT (dB $\mu$ V) |          |
|-----------------------------|------------------------------|----------|
| 0.15-0.5<br>0.5-5<br>5-30   | Quasi-peak                   | Average  |
|                             | 66 to 56                     | 56 to 46 |
|                             | 56                           | 46       |
|                             | 60                           | 50       |

**NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

#### 4.1.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER       | MODEL NO.   | SERIAL NO.     | CALIBRATED UNTIL |
|----------------------------------|-------------|----------------|------------------|
| Test Receiver<br>ROHDE & SCHWARZ | ESCS30      | 100289         | Dec. 07, 2007    |
| RF signal cable<br>Woken         | 5D-FB       | Cable-HYC01-01 | Jan. 06, 2008    |
| LISN<br>ROHDE & SCHWARZ          | ESH3-Z5     | 100312         | Feb. 13, 2008    |
| LISN<br>ROHDE & SCHWARZ          | ESH2-Z5     | 100104         | Sep. 14, 2007    |
| Software<br>ADT                  | ADT_Cond_V3 | NA             | NA               |

**NOTE:**

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Shielded Room 1.
3. The VCCI Site Registration No. is C-2040.



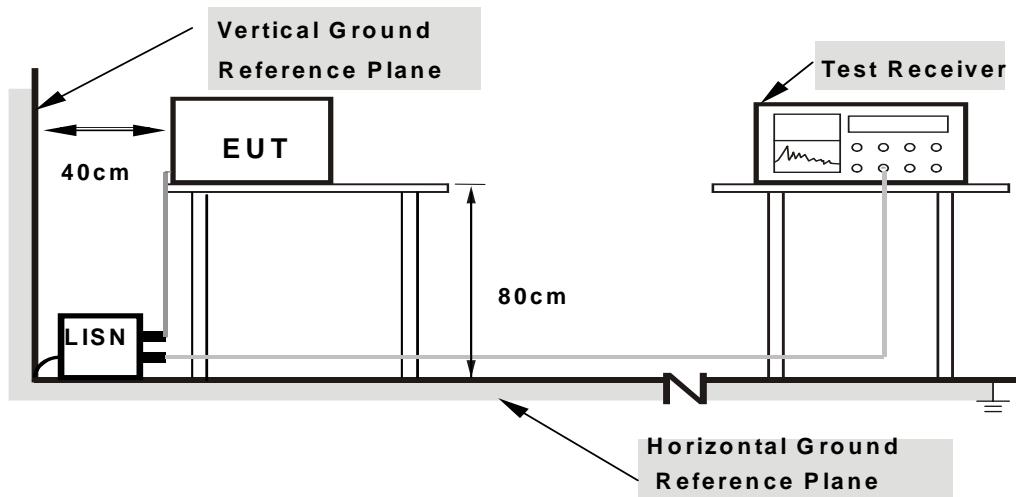
#### 4.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under Limit - 20dB was not recorded.

#### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.5 TEST SETUP



**Note:** 1. Support units were connected to second LISN.  
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.1.6 EUT OPERATING CONDITIONS

##### TEST MODE A

- Placed the EUT on the testing table.
- Prepare a notebook system out of the test table.
- The notebook system connected with EUT and run a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
- The necessary accessories enable the system in full functions.

##### TEST MODE B

- Placed the EUT on the testing table.
- Prepare a notebook system via POE out of the test table.
- The notebook system connected with EUT and run a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
- The necessary accessories enable the system in full functions.

#### 4.1.7 TEST RESULTS

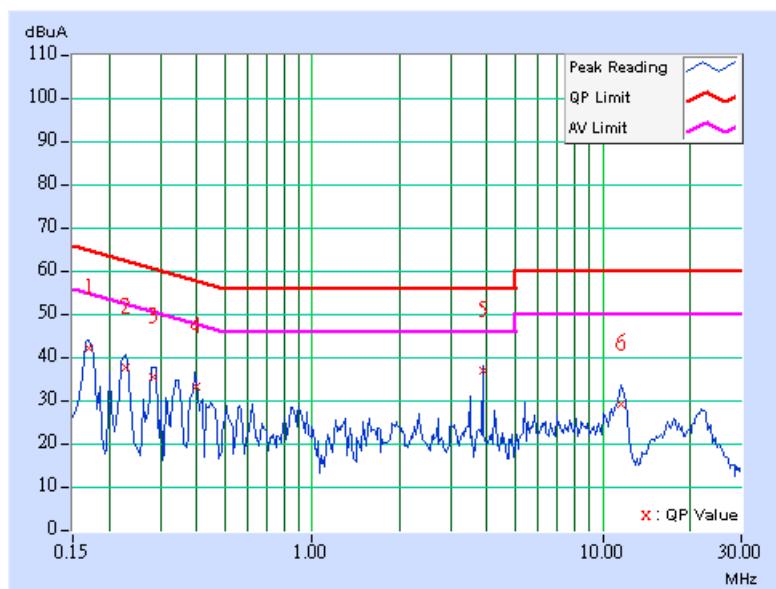
##### CONDUCTED WORST-CASE DATA

| EUT TEST CONDITION       |                         | MEASUREMENT DETAIL   |               |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL                  | Channel 1               | PHASE                | Line 1        |
| MODULATION TYPE          | BPSK                    | 6dB BANDWIDTH        | 9 kHz         |
| TRANSFER RATE            | 6Mbps                   | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 20deg. C, 60%RH, 991hPa | TEST MODE            | A             |
| TESTED BY                | Match Tsui              |                      |               |

| No | Freq.<br>[MHz] | Corr.<br>(dB) | Reading Value |     | Emission Level |     | Limit     |       | Margin |     |
|----|----------------|---------------|---------------|-----|----------------|-----|-----------|-------|--------|-----|
|    |                |               | [dB (uV)]     |     | [dB (uV)]      |     | [dB (uV)] |       | (dB)   |     |
|    |                |               | Q.P.          | AV. | Q.P.           | AV. | Q.P.      | AV.   | Q.P.   | AV. |
| 1  | 0.170          | 0.10          | 41.79         | -   | 41.89          | -   | 64.98     | 54.98 | -23.09 | -   |
| 2  | 0.228          | 0.10          | 37.52         | -   | 37.62          | -   | 62.52     | 52.52 | -24.90 | -   |
| 3  | 0.284          | 0.10          | 35.04         | -   | 35.14          | -   | 60.69     | 50.69 | -25.55 | -   |
| 4  | 0.397          | 0.10          | 32.87         | -   | 32.97          | -   | 57.91     | 47.91 | -24.94 | -   |
| 5  | 3.871          | 0.28          | 36.74         | -   | 37.02          | -   | 56.00     | 46.00 | -18.98 | -   |
| 6  | 11.512         | 0.38          | 29.05         | -   | 29.43          | -   | 60.00     | 50.00 | -30.57 | -   |

**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.

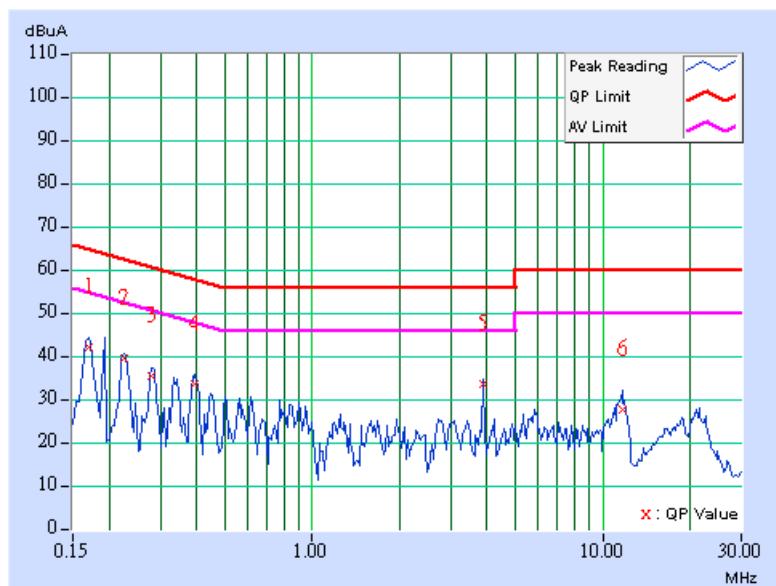


| EUT TEST CONDITION       |                         | MEASUREMENT DETAIL   |               |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL                  | Channel 1               | PHASE                | Line 2        |
| MODULATION TYPE          | BPSK                    | 6dB BANDWIDTH        | 9 kHz         |
| TRANSFER RATE            | 6Mbps                   | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 20deg. C, 60%RH, 991hPa | TEST MODE            | A             |
| TESTED BY                | Match Tsui              |                      |               |

| No | Freq.  | Corr.       | Reading Value |           | Emission Level |     | Limit |       | Margin |     |
|----|--------|-------------|---------------|-----------|----------------|-----|-------|-------|--------|-----|
|    | [MHz]  | Factor (dB) | [dB (uV)]     | [dB (uV)] | Q.P.           | AV. | Q.P.  | AV.   | Q.P.   | AV. |
| 1  | 0.170  | 0.10        | 41.65         | -         | 41.75          | -   | 64.98 | 54.98 | -23.23 | -   |
| 2  | 0.224  | 0.10        | 39.08         | -         | 39.18          | -   | 62.66 | 52.66 | -23.48 | -   |
| 3  | 0.279  | 0.10        | 34.96         | -         | 35.06          | -   | 60.85 | 50.85 | -25.79 | -   |
| 4  | 0.392  | 0.10        | 33.18         | -         | 33.28          | -   | 58.02 | 48.02 | -24.74 | -   |
| 5  | 3.871  | 0.28        | 33.12         | -         | 33.40          | -   | 56.00 | 46.00 | -22.60 | -   |
| 6  | 11.652 | 0.45        | 27.16         | -         | 27.61          | -   | 60.00 | 50.00 | -32.39 | -   |

**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.

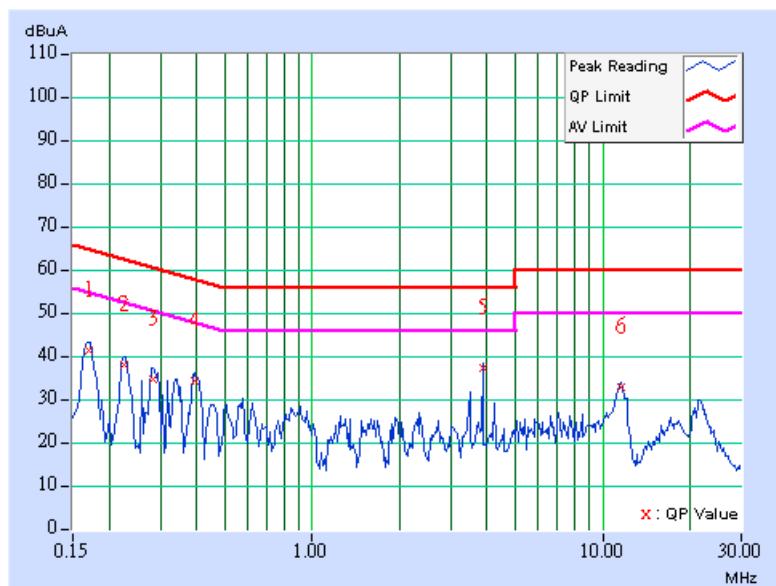


| EUT TEST CONDITION       |                         | MEASUREMENT DETAIL   |               |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL                  | Channel 6               | PHASE                | Line 1        |
| MODULATION TYPE          | BPSK                    | 6dB BANDWIDTH        | 9 kHz         |
| TRANSFER RATE            | 6Mbps                   | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 20deg. C, 60%RH, 991hPa | TEST MODE            | A             |
| TESTED BY                | Match Tsui              |                      |               |

| No | Freq.  | Corr. | Reading Value |           | Emission Level |           | Limit     |       | Margin |     |
|----|--------|-------|---------------|-----------|----------------|-----------|-----------|-------|--------|-----|
|    |        |       | Factor        | [dB (uV)] | [dB (uV)]      | [dB (uV)] | [dB (uV)] | (dB)  |        |     |
|    | [MHz]  | (dB)  | Q.P.          | AV.       | Q.P.           | AV.       | Q.P.      | AV.   | Q.P.   | AV. |
| 1  | 0.170  | 0.10  | 40.97         | -         | 41.07          | -         | 64.98     | 54.98 | -23.91 | -   |
| 2  | 0.224  | 0.10  | 37.85         | -         | 37.95          | -         | 62.66     | 52.66 | -24.71 | -   |
| 3  | 0.283  | 0.10  | 34.49         | -         | 34.59          | -         | 60.73     | 50.73 | -26.14 | -   |
| 4  | 0.392  | 0.10  | 34.04         | -         | 34.14          | -         | 58.02     | 48.02 | -23.88 | -   |
| 5  | 3.871  | 0.28  | 36.90         | -         | 37.18          | -         | 56.00     | 46.00 | -18.82 | -   |
| 6  | 11.617 | 0.38  | 32.44         | -         | 32.82          | -         | 60.00     | 50.00 | -27.18 | -   |

**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.

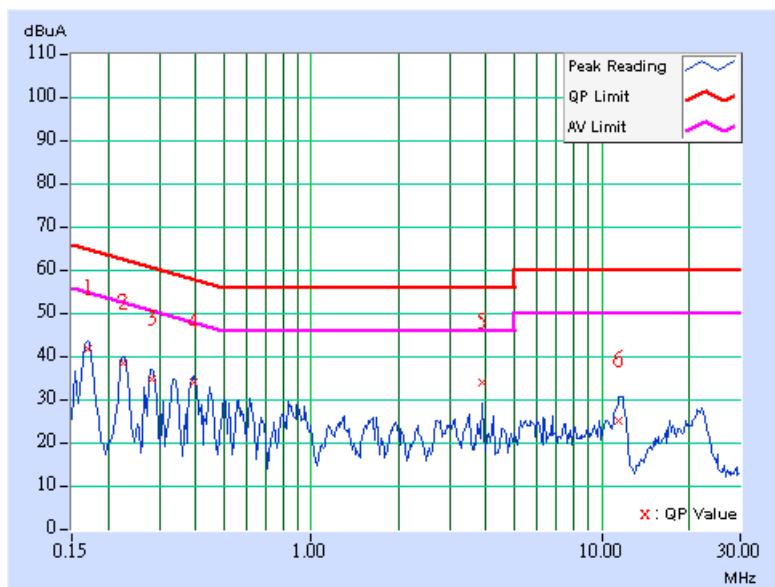


| EUT TEST CONDITION       |                         | MEASUREMENT DETAIL   |               |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL                  | Channel 6               | PHASE                | Line 2        |
| MODULATION TYPE          | BPSK                    | 6dB BANDWIDTH        | 9 kHz         |
| TRANSFER RATE            | 6Mbps                   | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 20deg. C, 60%RH, 991hPa | TEST MODE            | A             |
| TESTED BY                | Match Tsui              |                      |               |

|    | Freq.  | Corr. | Reading Value |           | Emission Level |           | Limit |       | Margin |     |
|----|--------|-------|---------------|-----------|----------------|-----------|-------|-------|--------|-----|
|    |        |       | Factor        | [dB (uV)] | [dB (uV)]      | [dB (uV)] | Q.P.  | AV.   | Q.P.   | AV. |
| No | [MHz]  | (dB)  | (dB)          | Q.P.      | AV.            | Q.P.      | AV.   | Q.P.  | AV.    |     |
| 1  | 0.170  | 0.10  | 41.49         | -         | 41.59          | -         | 64.98 | 54.98 | -23.39 | -   |
| 2  | 0.224  | 0.10  | 37.93         | -         | 38.03          | -         | 62.66 | 52.66 | -24.63 | -   |
| 3  | 0.283  | 0.10  | 34.51         | -         | 34.61          | -         | 60.73 | 50.73 | -26.12 | -   |
| 4  | 0.392  | 0.10  | 33.55         | -         | 33.65          | -         | 58.02 | 48.02 | -24.37 | -   |
| 5  | 3.871  | 0.28  | 33.51         | -         | 33.79          | -         | 56.00 | 46.00 | -22.21 | -   |
| 6  | 11.492 | 0.44  | 24.86         | -         | 25.30          | -         | 60.00 | 50.00 | -34.70 | -   |

**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.

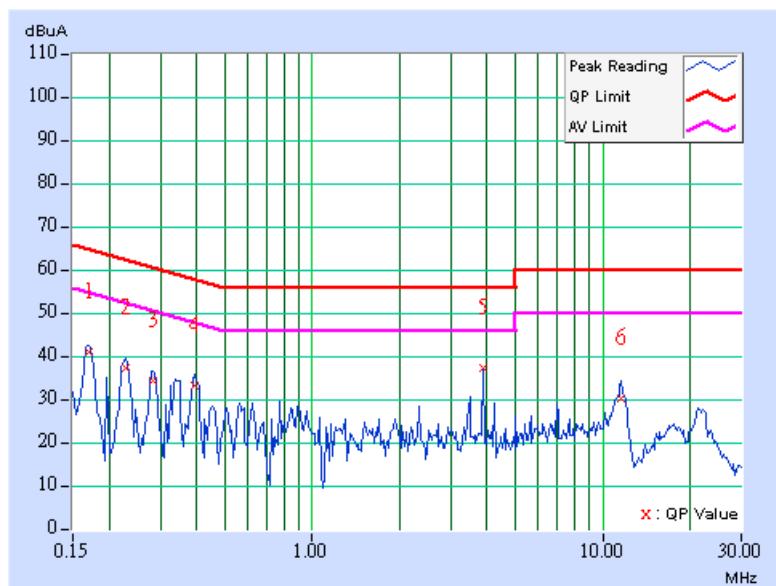


| EUT TEST CONDITION       |                         | MEASUREMENT DETAIL   |               |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL                  | Channel 11              | PHASE                | Line 1        |
| MODULATION TYPE          | BPSK                    | 6dB BANDWIDTH        | 9 kHz         |
| TRANSFER RATE            | 6Mbps                   | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 20deg. C, 60%RH, 991hPa | TEST MODE            | A             |
| TESTED BY                | Match Tsui              |                      |               |

| No | Freq.  | Corr. | Reading Value |           | Emission Level |     | Limit |           | Margin |     |
|----|--------|-------|---------------|-----------|----------------|-----|-------|-----------|--------|-----|
|    |        |       | Factor [MHz]  | [dB (uV)] | Q.P.           | AV. | Q.P.  | [dB (uV)] | Q.P.   | AV. |
| 1  | 0.170  | 0.10  | 40.67         | -         | 40.77          | -   | 64.98 | 54.98     | -24.21 | -   |
| 2  | 0.228  | 0.10  | 36.87         | -         | 36.97          | -   | 62.52 | 52.52     | -25.55 | -   |
| 3  | 0.283  | 0.10  | 34.20         | -         | 34.30          | -   | 60.73 | 50.73     | -26.43 | -   |
| 4  | 0.395  | 0.10  | 32.92         | -         | 33.02          | -   | 57.96 | 47.96     | -24.94 | -   |
| 5  | 3.871  | 0.28  | 36.94         | -         | 37.22          | -   | 56.00 | 46.00     | -18.78 | -   |
| 6  | 11.621 | 0.38  | 30.03         | -         | 30.41          | -   | 60.00 | 50.00     | -29.59 | -   |

**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.

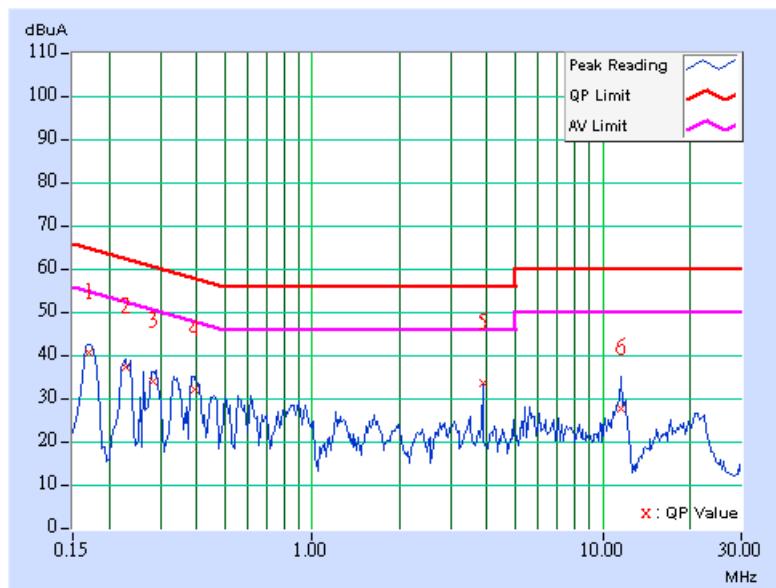


| EUT TEST CONDITION       |                         | MEASUREMENT DETAIL   |               |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL                  | Channel 11              | PHASE                | Line 2        |
| MODULATION TYPE          | BPSK                    | 6dB BANDWIDTH        | 9 kHz         |
| TRANSFER RATE            | 6Mbps                   | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 20deg. C, 60%RH, 991hPa | TEST MODE            | A             |
| TESTED BY                | Match Tsui              |                      |               |

| No | Freq.<br>[MHz] | Corr.<br>(dB) | Reading Value |     | Emission Level |     | Limit     |       | Margin |     |
|----|----------------|---------------|---------------|-----|----------------|-----|-----------|-------|--------|-----|
|    |                |               | [dB (uV)]     |     | [dB (uV)]      |     | [dB (uV)] |       | (dB)   |     |
|    |                |               | Q.P.          | AV. | Q.P.           | AV. | Q.P.      | AV.   | Q.P.   | AV. |
| 1  | 0.170          | 0.10          | 40.28         | -   | 40.38          | -   | 64.98     | 54.98 | -24.60 | -   |
| 2  | 0.228          | 0.10          | 36.91         | -   | 37.01          | -   | 62.52     | 52.52 | -25.51 | -   |
| 3  | 0.282          | 0.10          | 33.59         | -   | 33.69          | -   | 60.76     | 50.76 | -27.07 | -   |
| 4  | 0.395          | 0.10          | 31.61         | -   | 31.71          | -   | 57.96     | 47.96 | -26.25 | -   |
| 5  | 3.871          | 0.28          | 33.26         | -   | 33.54          | -   | 56.00     | 46.00 | -22.46 | -   |
| 6  | 11.625         | 0.45          | 27.40         | -   | 27.85          | -   | 60.00     | 50.00 | -32.15 | -   |

**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.

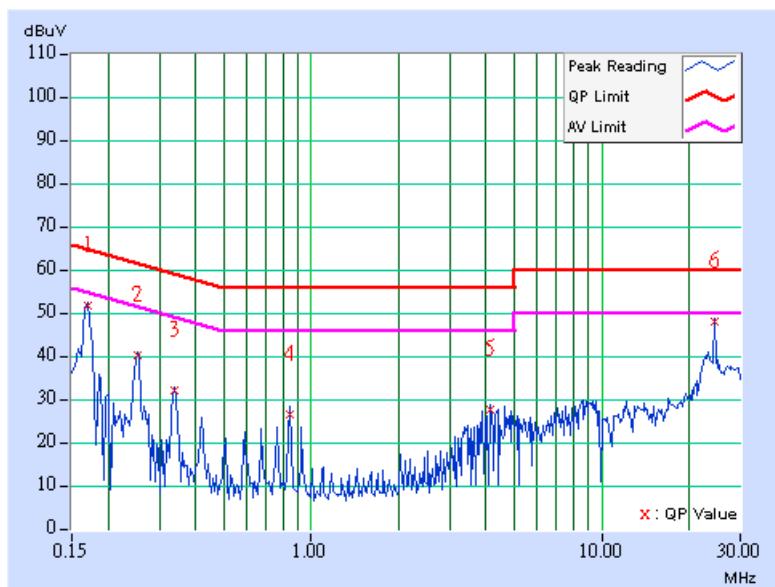


| EUT TEST CONDITION       |                         | MEASUREMENT DETAIL   |               |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL                  | Channel 1               | PHASE                | Line 1        |
| MODULATION TYPE          | BPSK                    | 6dB BANDWIDTH        | 9 kHz         |
| TRANSFER RATE            | 6Mbps                   | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 20deg. C, 60%RH, 991hPa | TEST MODE            | B             |
| TESTED BY                | Match Tsui              |                      |               |

|    | Freq.  | Corr. | Reading Value |           | Emission Level |           | Limit |       | Margin |     |
|----|--------|-------|---------------|-----------|----------------|-----------|-------|-------|--------|-----|
|    |        |       | Factor        | [dB (uV)] | [dB (uV)]      | [dB (uV)] | Q.P.  | AV.   | Q.P.   | AV. |
| No | [MHz]  | (dB)  | (dB)          | Q.P.      | AV.            | Q.P.      | AV.   | Q.P.  | AV.    |     |
| 1  | 0.170  | 0.10  | 51.13         | -         | 51.23          | -         | 64.98 | 54.98 | -13.75 | -   |
| 2  | 0.252  | 0.10  | 39.71         | -         | 39.81          | -         | 61.71 | 51.71 | -21.90 | -   |
| 3  | 0.338  | 0.10  | 31.52         | -         | 31.62          | -         | 59.26 | 49.26 | -27.64 | -   |
| 4  | 0.841  | 0.11  | 25.98         | -         | 26.09          | -         | 56.00 | 46.00 | -29.91 | -   |
| 5  | 4.133  | 0.28  | 26.88         | -         | 27.16          | -         | 56.00 | 46.00 | -28.84 | -   |
| 6  | 24.355 | 0.79  | 47.54         | -         | 48.33          | -         | 60.00 | 50.00 | -11.67 | -   |

**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.

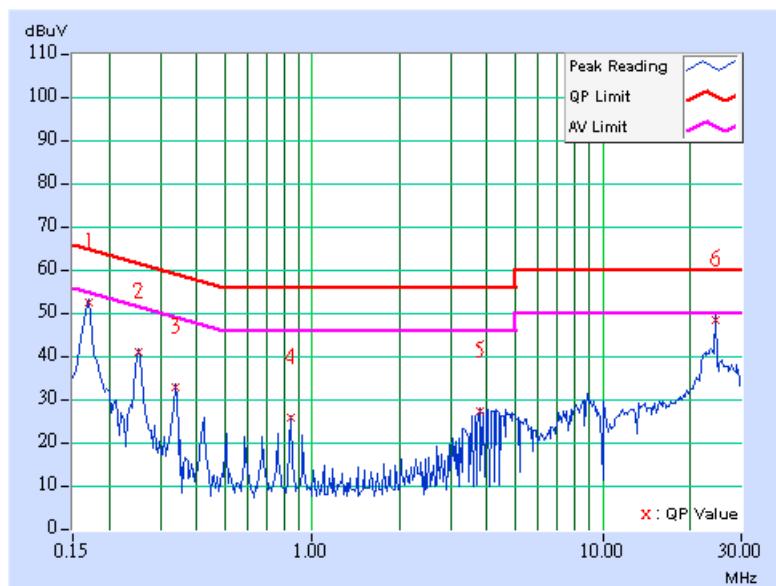


| EUT TEST CONDITION       |                         | MEASUREMENT DETAIL   |               |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL                  | Channel 1               | PHASE                | Line 2        |
| MODULATION TYPE          | BPSK                    | 6dB BANDWIDTH        | 9 kHz         |
| TRANSFER RATE            | 6Mbps                   | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 20deg. C, 60%RH, 991hPa | TEST MODE            | B             |
| TESTED BY                | Match Tsui              |                      |               |

| No | Freq.  | Corr.       | Reading Value |           | Emission Level |     | Limit |       | Margin |     |
|----|--------|-------------|---------------|-----------|----------------|-----|-------|-------|--------|-----|
|    | [MHz]  | Factor (dB) | [dB (uV)]     | [dB (uV)] | Q.P.           | AV. | Q.P.  | AV.   | Q.P.   | AV. |
| 1  | 0.170  | 0.10        | 51.83         | -         | 51.93          | -   | 64.98 | 54.98 | -13.05 | -   |
| 2  | 0.252  | 0.10        | 40.32         | -         | 40.42          | -   | 61.71 | 51.71 | -21.29 | -   |
| 3  | 0.338  | 0.10        | 32.23         | -         | 32.33          | -   | 59.26 | 49.26 | -26.93 | -   |
| 4  | 0.841  | 0.18        | 25.06         | -         | 25.24          | -   | 56.00 | 46.00 | -30.76 | -   |
| 5  | 3.793  | 0.27        | 26.57         | -         | 26.84          | -   | 56.00 | 46.00 | -29.16 | -   |
| 6  | 24.355 | 0.70        | 47.99         | -         | 48.69          | -   | 60.00 | 50.00 | -11.31 | -   |

**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.

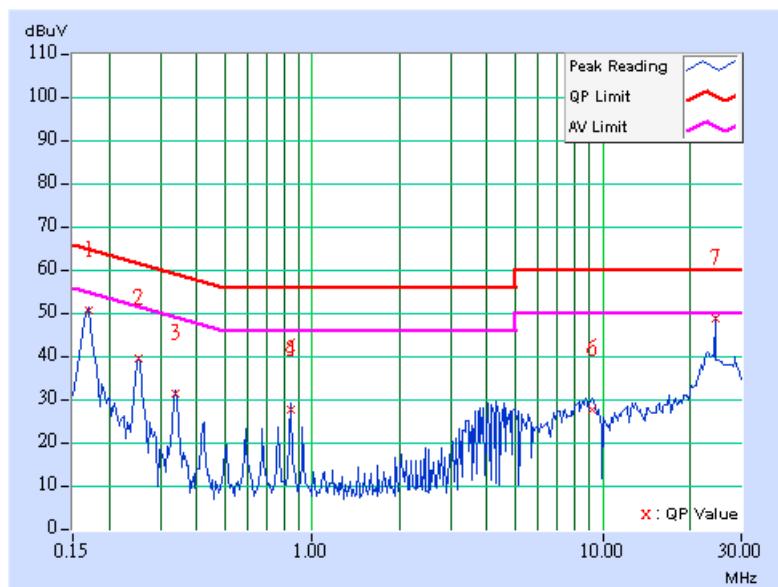


| EUT TEST CONDITION       |                         | MEASUREMENT DETAIL   |               |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL                  | Channel 6               | PHASE                | Line 1        |
| MODULATION TYPE          | BPSK                    | 6dB BANDWIDTH        | 9 kHz         |
| TRANSFER RATE            | 6Mbps                   | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 20deg. C, 60%RH, 991hPa | TEST MODE            | B             |
| TESTED BY                | Match Tsui              |                      |               |

| No | Freq.<br>[MHz] | Corr.<br>(dB) | Reading Value |           | Emission Level |           | Limit     |           | Margin |   |
|----|----------------|---------------|---------------|-----------|----------------|-----------|-----------|-----------|--------|---|
|    |                |               | [dB (uV)]     | [dB (uV)] | [dB (uV)]      | [dB (uV)] | [dB (uV)] | [dB (uV)] | (dB)   |   |
| 1  | 0.170          | 0.10          | 49.93         | -         | 50.03          | -         | 64.98     | 54.98     | -14.95 | - |
| 2  | 0.253          | 0.10          | 38.80         | -         | 38.90          | -         | 61.65     | 51.65     | -22.75 | - |
| 3  | 0.338          | 0.10          | 30.60         | -         | 30.70          | -         | 59.26     | 49.26     | -28.56 | - |
| 4  | 0.844          | 0.11          | 26.95         | -         | 27.06          | -         | 56.00     | 46.00     | -28.94 | - |
| 5  | 0.844          | 0.11          | 27.03         | -         | 27.14          | -         | 56.00     | 46.00     | -28.86 | - |
| 6  | 9.195          | 0.32          | 27.14         | -         | 27.46          | -         | 60.00     | 50.00     | -32.54 | - |
| 7  | 24.352         | 0.79          | 48.05         | -         | 48.84          | -         | 60.00     | 50.00     | -11.16 | - |

**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.

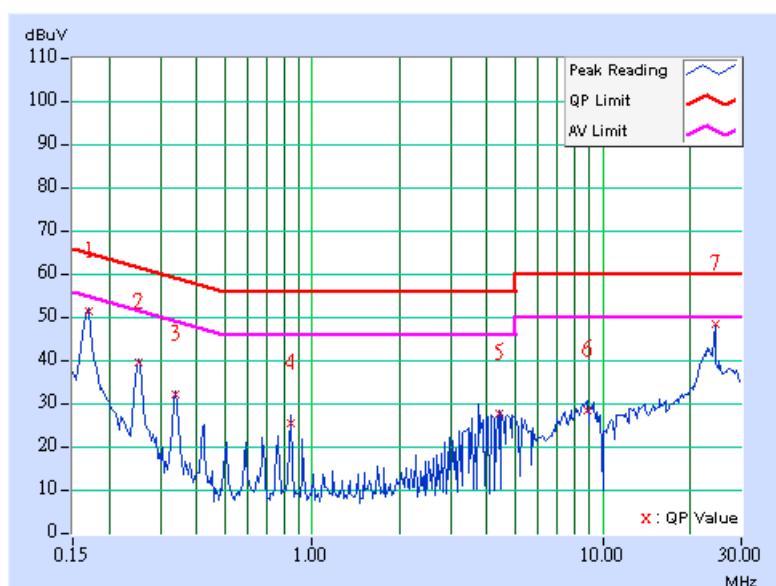


| EUT TEST CONDITION       |                         | MEASUREMENT DETAIL   |               |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL                  | Channel 6               | PHASE                | Line 2        |
| MODULATION TYPE          | BPSK                    | 6dB BANDWIDTH        | 9 kHz         |
| TRANSFER RATE            | 6Mbps                   | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 20deg. C, 60%RH, 991hPa | TEST MODE            | B             |
| TESTED BY                | Match Tsui              |                      |               |

| No | Freq.<br>[MHz] | Corr.<br>(dB) | Reading Value  |           | Emission Level |     | Limit |       | Margin |     |
|----|----------------|---------------|----------------|-----------|----------------|-----|-------|-------|--------|-----|
|    |                |               | Factor<br>(dB) | [dB (uV)] | Q.P.           | AV. | Q.P.  | AV.   | Q.P.   | AV. |
| 1  | 0.170          | 0.10          | 50.65          | -         | 50.75          | -   | 64.98 | 54.98 | -14.23 | -   |
| 2  | 0.252          | 0.10          | 39.02          | -         | 39.12          | -   | 61.71 | 51.71 | -22.59 | -   |
| 3  | 0.338          | 0.10          | 31.42          | -         | 31.52          | -   | 59.26 | 49.26 | -27.74 | -   |
| 4  | 0.841          | 0.18          | 25.04          | -         | 25.22          | -   | 56.00 | 46.00 | -30.78 | -   |
| 5  | 4.387          | 0.29          | 27.05          | -         | 27.34          | -   | 56.00 | 46.00 | -28.66 | -   |
| 6  | 8.855          | 0.40          | 27.74          | -         | 28.14          | -   | 60.00 | 50.00 | -31.86 | -   |
| 7  | 24.352         | 0.70          | 47.70          | -         | 48.40          | -   | 60.00 | 50.00 | -11.60 | -   |

**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.

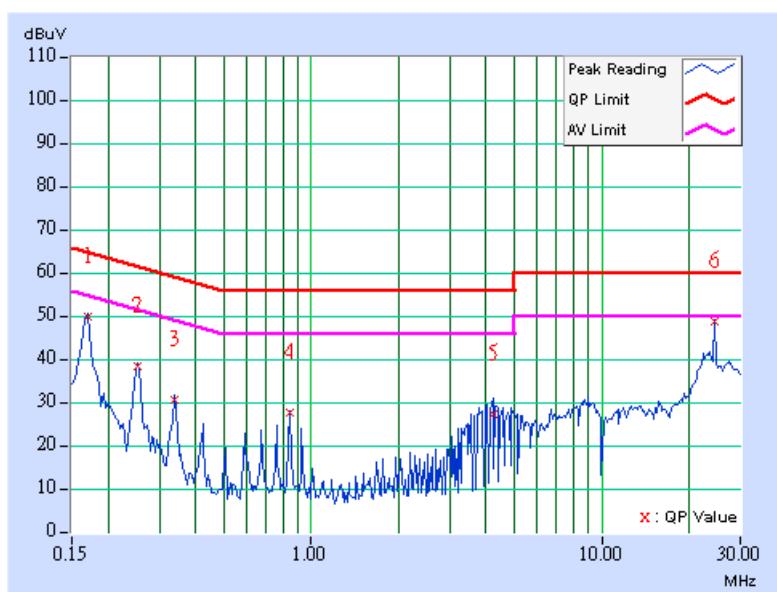


| EUT TEST CONDITION       |                         | MEASUREMENT DETAIL   |               |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL                  | Channel 11              | PHASE                | Line 1        |
| MODULATION TYPE          | BPSK                    | 6dB BANDWIDTH        | 9 kHz         |
| TRANSFER RATE            | 6Mbps                   | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 20deg. C, 60%RH, 991hPa | TEST MODE            | B             |
| TESTED BY                | Match Tsui              |                      |               |

| No | Freq.  | Corr.       | Reading Value |           | Emission Level |           | Limit     |           | Margin |     |
|----|--------|-------------|---------------|-----------|----------------|-----------|-----------|-----------|--------|-----|
|    | [MHz]  | Factor (dB) | [dB (uV)]     | [dB (uV)] | [dB (uV)]      | [dB (uV)] | [dB (uV)] | [dB (uV)] | (dB)   |     |
|    | [MHz]  | (dB)        | Q.P.          | AV.       | Q.P.           | AV.       | Q.P.      | AV.       | Q.P.   | AV. |
| 1  | 0.170  | 0.10        | 49.29         | -         | 49.39          | -         | 64.98     | 54.98     | -15.59 | -   |
| 2  | 0.252  | 0.10        | 37.81         | -         | 37.91          | -         | 61.71     | 51.71     | -23.80 | -   |
| 3  | 0.338  | 0.10        | 30.10         | -         | 30.20          | -         | 59.26     | 49.26     | -29.06 | -   |
| 4  | 0.845  | 0.11        | 26.97         | -         | 27.08          | -         | 56.00     | 46.00     | -28.92 | -   |
| 5  | 4.219  | 0.28        | 26.55         | -         | 26.83          | -         | 56.00     | 46.00     | -29.17 | -   |
| 6  | 24.352 | 0.79        | 47.98         | -         | 48.77          | -         | 60.00     | 50.00     | -11.23 | -   |

**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.

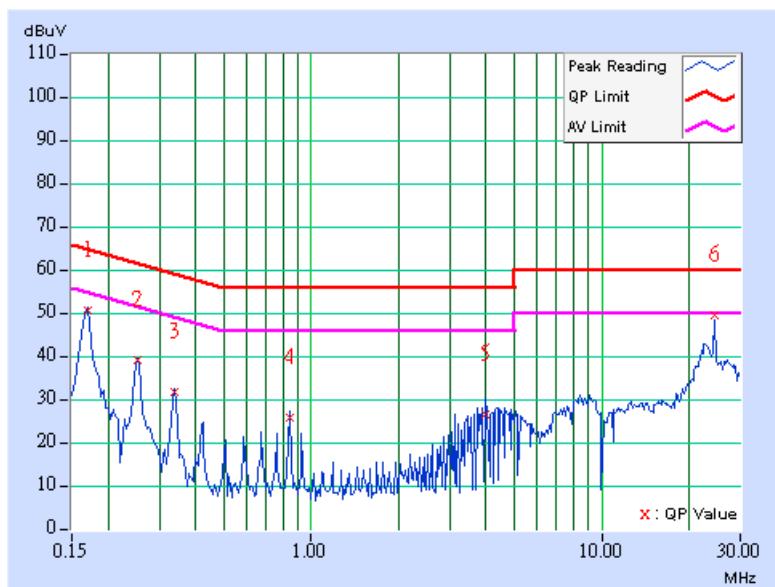


| EUT TEST CONDITION       |                         | MEASUREMENT DETAIL   |               |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL                  | Channel 11              | PHASE                | Line 2        |
| MODULATION TYPE          | BPSK                    | 6dB BANDWIDTH        | 9 kHz         |
| TRANSFER RATE            | 6Mbps                   | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 20deg. C, 60%RH, 991hPa | TEST MODE            | B             |
| TESTED BY                | Match Tsui              |                      |               |

|    | Freq.  | Corr. | Reading Value |           | Emission Level |           | Limit |       | Margin |     |
|----|--------|-------|---------------|-----------|----------------|-----------|-------|-------|--------|-----|
|    |        |       | Factor        | [dB (uV)] | [dB (uV)]      | [dB (uV)] | Q.P.  | AV.   | Q.P.   | AV. |
| No | [MHz]  | (dB)  | (dB)          | Q.P.      | AV.            | Q.P.      | AV.   | Q.P.  | AV.    |     |
| 1  | 0.170  | 0.10  | 50.09         | -         | 50.19          | -         | 64.98 | 54.98 | -14.79 | -   |
| 2  | 0.254  | 0.10  | 38.40         | -         | 38.50          | -         | 61.62 | 51.62 | -23.12 | -   |
| 3  | 0.338  | 0.10  | 31.00         | -         | 31.10          | -         | 59.26 | 49.26 | -28.16 | -   |
| 4  | 0.845  | 0.18  | 25.09         | -         | 25.27          | -         | 56.00 | 46.00 | -30.73 | -   |
| 5  | 3.965  | 0.28  | 26.05         | -         | 26.33          | -         | 56.00 | 46.00 | -29.67 | -   |
| 6  | 24.352 | 0.70  | 48.82         | -         | 49.52          | -         | 60.00 | 50.00 | -10.48 | -   |

**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

| Frequencies (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                             |

**NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



#### 4.2.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER              | MODEL NO.         | SERIAL NO.  | CALIBRATED UNTIL |
|---|-------------------|-------------|------------------|
| Test Receiver<br>ROHDE & SCHWARZ        | ESI7              | 838496/016  | Dec. 29, 2007    |
| Spectrum Analyzer<br>ROHDE & SCHWARZ    | FSP40             | 100039      | Dec. 01, 2007    |
| BILOG Antenna<br>SCHWARZBECK            | VULB9168          | 9168-155    | Jan. 04, 2008    |
| HORN Antenna<br>SCHWARZBECK             | BBHA 9120D        | 9120D-405   | Dec. 18, 2007    |
| HORN Antenna<br>SCHWARZBECK             | BBHA 9170         | BBHA9170242 | Jan. 16, 2008    |
| Preamplifier<br>Agilent                 | 8449B             | 3008A1960   | Oct. 30, 2007    |
| Preamplifier<br>Agilent                 | 8447D             | 2944A10631  | Oct. 30, 2007    |
| RF signal cable<br>HUBER+SUHNNER        | SUCOFLEX 104      | 230128/4    | Nov. 14, 2007    |
| RF signal cable<br>HUBER+SUHNNER        | SUCOFLEX 104      | 233233/4    | Nov. 14, 2007    |
| Software<br>ADT.                        | ADT_Radiated_V7.6 | NA          | NA               |
| Antenna Tower<br>inn-co GmbH            | MA 4000           | 010303      | NA               |
| Antenna Tower Controller<br>inn-co GmbH | CO2000            | 019303      | NA               |
| Turn Table<br>ADT.                      | TT100.            | TT93021704  | NA               |
| Turn Table Controller<br>ADT.           | SC100.            | SC93021704  | NA               |

**NOTE:**

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 4.
3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The IC Site Registration No. is IC3789B-4.



#### 4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

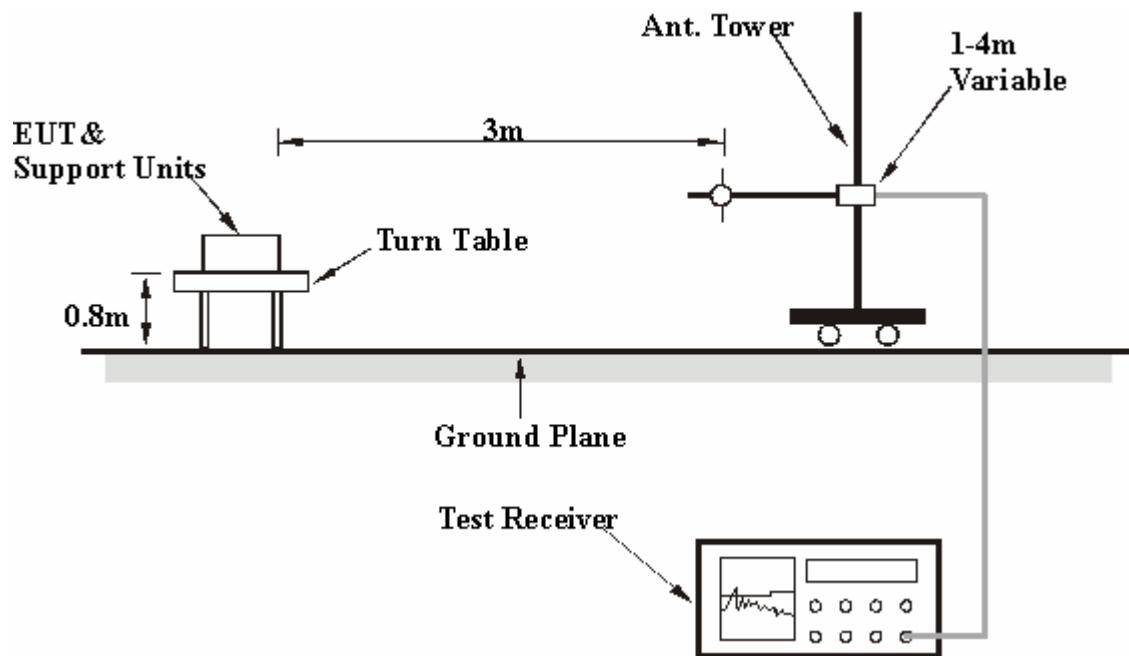
#### NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.

#### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.2.5 TEST SETUP



For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6



#### 4.2.7 TEST RESULTS

##### RADIATED WORST-CASE DATA: BELOW 1GHz

| EUT TEST CONDITION       |                         | MEASUREMENT DETAIL   |               |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL                  | Channel 11              | FREQUENCY RANGE      | Below 1000MHz |
| MODULATION TYPE          | BPSK                    | DETECTOR FUNCTION    | Quasi-Peak    |
| TRANSFER RATE            | 6Mbps                   | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 24deg. C, 63%RH, 991hPa | TEST MODE            | A             |
| TESTED BY                | Brad Wu                 |                      |               |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.   | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1   | 160.17      | 36.56 QP                | 43.50          | -6.94       | 1.00 H             | 85                   | 22.24            | 14.32                    |
| 2   | 278.77      | 37.11 QP                | 46.00          | -8.89       | 1.00 H             | 262                  | 22.81            | 14.30                    |
| 3   | 360.43      | 38.81 QP                | 46.00          | -7.19       | 1.00 H             | 55                   | 22.49            | 16.32                    |
| 4   | 479.03      | 38.05 QP                | 46.00          | -7.95       | 1.50 H             | 187                  | 18.21            | 19.85                    |
| 5   | 640.41      | 38.32 QP                | 46.00          | -7.68       | 1.50 H             | 28                   | 14.27            | 24.05                    |
| 6   | 799.84      | 37.74 QP                | 46.00          | -8.26       | 1.00 H             | 64                   | 11.31            | 26.43                    |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.   | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1   | 41.57       | 38.64 QP                | 40.00          | -1.36       | 1.00 V             | 37                   | 25.99            | 12.65                    |
| 2   | 84.34       | 38.31 QP                | 40.00          | -1.69       | 1.50 V             | 10                   | 28.23            | 10.08                    |
| 3   | 160.17      | 39.36 QP                | 43.50          | -4.14       | 1.00 V             | 10                   | 25.04            | 14.32                    |
| 4   | 360.43      | 35.22 QP                | 46.00          | -10.78      | 1.00 V             | 79                   | 18.90            | 16.32                    |
| 5   | 440.14      | 35.43 QP                | 46.00          | -10.57      | 1.00 V             | 256                  | 16.84            | 18.59                    |
| 6   | 640.41      | 36.85 QP                | 46.00          | -9.15       | 1.00 V             | 73                   | 12.80            | 24.05                    |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



| EUT TEST CONDITION       |  | MEASUREMENT DETAIL   |  |               |
|--------------------------|--|----------------------|--|---------------|
| CHANNEL                  |  | Frequency Range      |  | Below 1000MHz |
| MODULATION TYPE          |  | Detector Function    |  | Quasi-Peak    |
| TRANSFER RATE            |  | Input Power (System) |  | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS |  | Test Mode            |  | B             |
| TESTED BY                |  | Brad Wu              |  |               |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.   | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1   | 249.60      | 36.13 QP                | 46.00          | -9.87       | 1.50 H             | 109                  | 22.44            | 13.69                    |
| 2   | 360.43      | 34.59 QP                | 46.00          | -11.41      | 1.00 H             | 241                  | 18.28            | 16.32                    |
| 3   | 479.03      | 36.66 QP                | 46.00          | -9.34       | 1.50 H             | 199                  | 16.81            | 19.85                    |
| 4   | 550.97      | 35.60 QP                | 46.00          | -10.40      | 1.50 H             | 208                  | 13.76            | 21.84                    |
| 5   | 640.41      | 38.55 QP                | 46.00          | -7.45       | 1.50 H             | 40                   | 14.50            | 24.05                    |
| 6   | 960.00      | 31.18 QP                | 46.00          | -14.82      | 1.50 H             | 25                   | 2.53             | 28.65                    |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.   | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1   | 160.17      | 38.05 QP                | 43.50          | -5.45       | 1.00 V             | 52                   | 23.73            | 14.32                    |
| 2   | 249.60      | 37.36 QP                | 46.00          | -8.64       | 1.50 V             | 10                   | 23.67            | 13.69                    |
| 3   | 360.43      | 33.20 QP                | 46.00          | -12.80      | 1.00 V             | 163                  | 16.88            | 16.32                    |
| 4   | 479.03      | 34.56 QP                | 46.00          | -11.44      | 1.50 V             | 124                  | 14.71            | 19.85                    |
| 5   | 640.41      | 34.75 QP                | 46.00          | -11.25      | 1.00 V             | 88                   | 10.70            | 24.05                    |
| 6   | 961.21      | 35.47 QP                | 54.00          | -18.53      | 1.00 V             | 256                  | 6.80             | 28.67                    |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



## 802.11b DSSS MODULATION

| EUT TEST CONDITION   |               | MEASUREMENT DETAIL       |                          |
|----------------------|---------------|--------------------------|--------------------------|
| CHANNEL              | Channel 1     | FREQUENCY RANGE          | 1 ~ 25GHz                |
| MODULATION TYPE      | DBPSK         | DETECTOR FUNCTION        | Peak(PK)<br>Average (AV) |
| TRANSFER RATE        | 1Mbps         | ENVIRONMENTAL CONDITIONS | 23deg. C, 63%RH, 991hPa  |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | TEST MODE                | A                        |
| TESTED BY            | Brad Wu       |                          |                          |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.   | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1   | 1600.00     | 45.50 PK                | 74.00          | -28.50      | 1.00 H             | 30                   | 15.51            | 29.99                    |
| 2   | 1600.00     | 39.95 AV                | 54.00          | -14.05      | 1.00 H             | 30                   | 9.96             | 29.99                    |
| 3   | 2390.00     | 49.56 PK                | 74.00          | -24.44      | 1.00 H             | 287                  | 17.31            | 32.25                    |
| 4   | 2390.00     | 38.10 AV                | 54.00          | -15.90      | 1.00 H             | 287                  | 5.85             | 32.25                    |
| 5   | *2412.00    | 101.39 PK               |                |             | 1.00 H             | 287                  | 69.05            | 32.34                    |
| 6   | *2412.00    | 93.26 AV                |                |             | 1.00 H             | 287                  | 60.92            | 32.34                    |
| 7   | 4824.00     | 51.67 PK                | 74.00          | -22.33      | 1.34 H             | 62                   | 13.07            | 38.60                    |
| 8   | 4824.00     | 37.12 AV                | 54.00          | -16.88      | 1.34 H             | 62                   | -1.48            | 38.60                    |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.   | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1   | 1600.00     | 48.55 PK                | 74.00          | -25.45      | 1.02 V             | 295                  | 18.56            | 29.99                    |
| 2   | 1600.00     | 45.61 AV                | 54.00          | -8.39       | 1.02 V             | 295                  | 15.62            | 29.99                    |
| 3   | 2390.00     | 59.82 PK                | 74.00          | -14.18      | 1.31 V             | 18                   | 27.57            | 32.25                    |
| 4   | 2390.00     | 48.23 AV                | 54.00          | -5.77       | 1.31 V             | 18                   | 15.98            | 32.25                    |
| 5   | *2412.00    | 112.60 PK               |                |             | 1.30 V             | 19                   | 80.26            | 32.34                    |
| 6   | *2412.00    | 104.42 AV               |                |             | 1.30 V             | 19                   | 72.08            | 32.34                    |
| 7   | 4824.00     | 52.78 PK                | 74.00          | -21.22      | 1.00 V             | 12                   | 14.18            | 38.60                    |
| 8   | 4824.00     | 39.67 AV                | 54.00          | -14.33      | 1.00 V             | 12                   | 1.07             | 38.60                    |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “\*” : Fundamental frequency.



| EUT TEST CONDITION   |               | MEASUREMENT DETAIL       |                          |
|----------------------|---------------|--------------------------|--------------------------|
| CHANNEL              | Channel 11    | FREQUENCY RANGE          | 1 ~ 25GHz                |
| MODULATION TYPE      | DBPSK         | DETECTOR FUNCTION        | Peak(PK)<br>Average (AV) |
| TRANSFER RATE        | 1Mbps         | ENVIRONMENTAL CONDITIONS | 23deg. C, 63%RH, 991hPa  |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | TEST MODE                | A                        |
| TESTED BY            | Brad Wu       |                          |                          |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.   | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1   | 1600.00     | 45.89 PK                | 74.00          | -28.11      | 1.05 H             | 213                  | 15.90            | 29.99                    |
| 2   | 1600.00     | 40.31 AV                | 54.00          | -13.69      | 1.05 H             | 213                  | 10.32            | 29.99                    |
| 3   | *2462.00    | 101.65 PK               |                |             | 1.02 H             | 300                  | 69.12            | 32.53                    |
| 4   | *2462.00    | 93.51 AV                |                |             | 1.02 H             | 300                  | 60.98            | 32.53                    |
| 5   | 2483.50     | 49.68 PK                | 74.00          | -24.32      | 1.02 H             | 300                  | 17.07            | 32.61                    |
| 6   | 2483.50     | 38.24 AV                | 54.00          | -15.76      | 1.02 H             | 300                  | 5.63             | 32.61                    |
| 7   | 4924.00     | 51.89 PK                | 74.00          | -22.11      | 1.16 H             | 52                   | 13.02            | 38.87                    |
| 8   | 4924.00     | 37.40 AV                | 54.00          | -16.60      | 1.16 H             | 52                   | -1.47            | 38.87                    |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.   | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1   | 1600.00     | 48.69 PK                | 74.00          | -25.31      | 1.15 V             | 29                   | 18.70            | 29.99                    |
| 2   | 1600.00     | 45.72 AV                | 54.00          | -8.28       | 1.15 V             | 29                   | 15.73            | 29.99                    |
| 3   | *2462.00    | 112.82 PK               |                |             | 1.35 V             | 177                  | 80.29            | 32.53                    |
| 4   | *2462.00    | 104.65 AV               |                |             | 1.35 V             | 177                  | 72.12            | 32.53                    |
| 5   | 2483.50     | 59.46 PK                | 74.00          | -14.54      | 1.35 V             | 177                  | 26.85            | 32.61                    |
| 6   | 2483.50     | 48.67 AV                | 54.00          | -5.33       | 1.35 V             | 177                  | 16.06            | 32.61                    |
| 7   | 4924.00     | 52.96 PK                | 74.00          | -21.04      | 1.10 V             | 215                  | 14.09            | 38.87                    |
| 8   | 4924.00     | 39.91 AV                | 54.00          | -14.09      | 1.10 V             | 215                  | 1.04             | 38.87                    |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “\*”: Fundamental frequency.



## 802.11g OFDM MODULATION

| EUT TEST CONDITION   |  | MEASUREMENT DETAIL       |  |                            |
|----------------------|--|--------------------------|--|----------------------------|
| CHANNEL              |  | FREQUENCY RANGE          |  | 1 ~ 25GHz                  |
| MODULATION TYPE      |  | DETECTOR FUNCTION        |  | Peak(PK)<br>Average (AV)   |
| TRANSFER RATE        |  | ENVIRONMENTAL CONDITIONS |  | 23deg. C, 63%RH,<br>991hPa |
| INPUT POWER (SYSTEM) |  | TEST MODE                |  | A                          |
| TESTED BY            |  | Brad Wu                  |  |                            |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.   | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1   | 1600.00     | 45.86 PK                | 74.00          | -28.14      | 1.16 H             | 88                   | 15.87            | 29.99                    |
| 2   | 1600.00     | 40.15 AV                | 54.00          | -13.85      | 1.16 H             | 88                   | 10.16            | 29.99                    |
| 3   | 2390.00     | 48.21 PK                | 74.00          | -25.79      | 1.02 H             | 20                   | 15.96            | 32.25                    |
| 4   | 2390.00     | 35.30 AV                | 54.00          | -18.70      | 1.02 H             | 20                   | 3.05             | 32.25                    |
| 5   | *2412.00    | 92.36 PK                |                |             | 1.02 H             | 20                   | 60.02            | 32.34                    |
| 6   | *2412.00    | 82.20 AV                |                |             | 1.02 H             | 20                   | 49.86            | 32.34                    |
| 7   | 4824.00     | 51.95 PK                | 74.00          | -22.05      | 1.19 H             | 323                  | 13.35            | 38.60                    |
| 8   | 4824.00     | 37.48 AV                | 54.00          | -16.52      | 1.19 H             | 323                  | -1.12            | 38.60                    |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.   | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1   | 1600.00     | 48.69 PK                | 74.00          | -25.31      | 1.13 V             | 29                   | 18.70            | 29.99                    |
| 2   | 1600.00     | 45.72 AV                | 54.00          | -8.28       | 1.13 V             | 29                   | 15.73            | 29.99                    |
| 3   | 2390.00     | 59.63 PK                | 74.00          | -14.37      | 1.41 V             | 153                  | 27.38            | 32.25                    |
| 4   | 2390.00     | 46.59 AV                | 54.00          | -7.41       | 1.41 V             | 153                  | 14.34            | 32.25                    |
| 5   | *2412.00    | 106.46 PK               |                |             | 1.41 V             | 153                  | 74.12            | 32.34                    |
| 6   | *2412.00    | 96.26 AV                |                |             | 1.41 V             | 153                  | 63.92            | 32.34                    |
| 7   | 4824.00     | 52.69 PK                | 74.00          | -21.31      | 1.13 V             | 241                  | 14.09            | 38.60                    |
| 8   | 4824.00     | 39.54 AV                | 54.00          | -14.46      | 1.13 V             | 241                  | 0.94             | 38.60                    |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “\*”: Fundamental frequency.



| EUT TEST CONDITION   |  | MEASUREMENT DETAIL       |  |                            |
|----------------------|--|--------------------------|--|----------------------------|
| CHANNEL              |  | FREQUENCY RANGE          |  | 1 ~ 25GHz                  |
| MODULATION TYPE      |  | DETECTOR FUNCTION        |  | Peak(PK)<br>Average (AV)   |
| TRANSFER RATE        |  | ENVIRONMENTAL CONDITIONS |  | 23deg. C, 63%RH,<br>991hPa |
| INPUT POWER (SYSTEM) |  | TEST MODE                |  | A                          |
| TESTED BY            |  | Brad Wu                  |  |                            |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.   | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1   | 1600.00     | 45.99 PK                | 74.00          | -28.01      | 1.02 H             | 109                  | 16.00            | 29.99                    |
| 2   | 1600.00     | 40.32 AV                | 54.00          | -13.68      | 1.02 H             | 109                  | 10.33            | 29.99                    |
| 3   | *2462.00    | 92.65 PK                |                |             | 1.05 H             | 24                   | 60.12            | 32.53                    |
| 4   | *2462.00    | 82.51 AV                |                |             | 1.05 H             | 24                   | 49.98            | 32.53                    |
| 5   | 2483.50     | 48.65 PK                | 74.00          | -25.35      | 1.05 H             | 24                   | 16.04            | 32.61                    |
| 6   | 2483.50     | 35.81 AV                | 54.00          | -18.19      | 1.05 H             | 24                   | 3.20             | 32.61                    |
| 7   | 4924.00     | 51.81 PK                | 74.00          | -22.19      | 1.16 H             | 3                    | 12.94            | 38.87                    |
| 8   | 4924.00     | 37.20 AV                | 54.00          | -16.80      | 1.16 H             | 3                    | -1.67            | 38.87                    |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.   | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1   | 1600.00     | 48.86 PK                | 74.00          | -25.14      | 1.10 V             | 95                   | 18.87            | 29.99                    |
| 2   | 1600.00     | 46.03 AV                | 54.00          | -7.97       | 1.10 V             | 95                   | 16.04            | 29.99                    |
| 3   | *2462.00    | 106.80 PK               |                |             | 1.37 V             | 178                  | 74.27            | 32.53                    |
| 4   | *2462.00    | 96.45 AV                |                |             | 1.37 V             | 178                  | 63.92            | 32.53                    |
| 5   | 2483.50     | 59.76 PK                | 74.00          | -14.24      | 1.37 V             | 178                  | 27.15            | 32.61                    |
| 6   | 2483.50     | 48.44 AV                | 54.00          | -5.56       | 1.37 V             | 178                  | 15.83            | 32.61                    |
| 7   | 4924.00     | 52.78 PK                | 74.00          | -21.22      | 1.12 V             | 325                  | 13.91            | 38.87                    |
| 8   | 4924.00     | 39.63 AV                | 54.00          | -14.37      | 1.12 V             | 325                  | 0.76             | 38.87                    |

**REMARKS:**

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “\*”: Fundamental frequency.



## 5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



## 6 INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025

|                    |                       |
|--------------------|-----------------------|
| <b>USA</b>         | FCC, UL, A2LA         |
| <b>Germany</b>     | TUV Rheinland         |
| <b>Japan</b>       | VCCI                  |
| <b>Norway</b>      | NEMKO                 |
| <b>Canada</b>      | INDUSTRY CANADA , CSA |
| <b>R.O.C.</b>      | CNLA, BSMI, NCC       |
| <b>Netherlands</b> | Telefication          |
| <b>Singapore</b>   | PSB , GOST-ASIA(MOU)  |
| <b>Russia</b>      | CERTIS(MOU)           |

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site:

[www.adt.com.tw/index.5/phtml](http://www.adt.com.tw/index.5/phtml). If you have any comments, please feel free to contact us at the following:

**Linko EMC/RF Lab:**

Tel: 886-2-26052180  
Fax: 886-2-26051924

**Hsin Chu EMC/RF Lab:**

Tel: 886-3-5935343  
Fax: 886-3-5935342

**Hwa Ya EMC/RF/Safety/Telecom Lab:**

Tel: 886-3-3183232  
Fax: 886-3-3185050

**Web Site:** [www.adt.com.tw](http://www.adt.com.tw)

The address and road map of all our labs can be found in our web site also.



## APPENDIX-A

### MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.