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# CO-TRANSMISSION

## SUPPLEMENTARY TEST REPORT

**REPORT NO.:** RF990104H03-1  
WR6202-1U, WR6202, SMCWBR11S-3GN,

**MODEL NO.:** SMCWBR11S-N, BG-100

**RECEIVED:** Jan. 04, 2010

**TESTED:** Jan. 14 to 26, 2010

**ISSUED:** Mar. 03, 2010

**APPLICANT:** Accton Wireless Broadband Corp.

**ADDRESS:** 3F, No. 1 Creation Rd. III, Science-based  
Industrial Park Hsinchu 30077, Taiwan, R.O.C.

**ISSUED BY:** Bureau Veritas Consumer Products Services  
(H.K.) Ltd., Taoyuan Branch

**LAB LOCATION:** No. 81-1, Lu Liao Keng, 9th Ling,Wu Lung Tsuen,  
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## 1 CERTIFICATION

**PRODUCT :** 150Mbps Wireless-N Mini 3G Broadband Router,  
150Mbps Wireless-N Mini Broadband Router,  
Pareto Networks BG-100 Branch Services Gateway

**BRAND NAME :** AWB, SMC, Pareto

**MODEL NO. :** WR6202-1U, WR6202, SMCWBR11S-3GN,  
SMCWBR11S-N, BG-100

**TESTED :** Jan. 14 to 26, 2010

**APPLICANT :** Accton Wireless Broadband Corp.

**TEST SAMPLE :** R&D SAMPLE

**STANDARDS :** 47 CFR Part 15, Subpart C (Section 15.247)  
ANSI C63.4-2003

The above equipment (Model: WR6202-1U) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, 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** : Midoli Peng , **DATE:** Mar. 03, 2010  
( Midoli Peng, Specialist )

**TECHNICAL  
ACCEPTANCE** : Hank Chung , **DATE:** Mar. 03, 2010  
( Hank Chung, Deputy Manager )

**APPROVED BY** : May Chen , **DATE:** Mar. 03, 2010  
( May Chen, Deputy Manager )

**Revision Note:**

| Revision No. | Revised Date  | Revised Pages | Comment   |
|--------------|---------------|---------------|---|
| Rev.1.0      | Mar. 03, 2010 | 7, 11         | Modify the brand name of 3G card (Model: E169). |



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## 2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: 47 CFR Part 15, Subpart C |  |        |  |
|---|--|--------|--|
| Standard Section                            | Test Type and Limit                                | Result | REMARK   |
| 15.207                                      | AC Power Conducted Emission                        | PASS   | Meet the requirement of limit. Minimum passing margin is -3.36dB at 0.334MHz   |
| 15.247(d)                                   | Transmitter Radiated Emissions Limit: Table 15.209 | PASS   | Meet the requirement of limit Minimum passing margin is -6.35 dB at 499.99 MHz |

### 2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

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

| Measurement                       | Value   |
|-----------------------------------|---------|
| Conducted emissions               | 2.45 dB |
| Radiated emissions (30MHz-1GHz)   | 3.94 dB |
| Radiated emissions (1GHz -18GHz)  | 2.49 dB |
| Radiated emissions (18GHz -40GHz) | 2.70 dB |



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### 3 GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

|                              |   |
|------------------------------|---|
| <b>PRODUCT</b>               | 150Mbps Wireless-N Mini 3G Broadband Router,<br>150Mbps Wireless-N Mini Broadband Router, Pareto<br>Networks BG-100 Branch Services Gateway   |
| <b>MODEL NO.</b>             | WR6202-1U, WR6202, SMCWBR11S-3GN,<br>SMCWBR11S-N, BG-100  |
| <b>FCC ID</b>                | V8YFIU816202T00W  |
| <b>POWER SUPPLY</b>          | 12V from power adapter  |
| <b>MODULATION TYPE</b>       | CCK, DQPSK, DBPSK for DSSS<br>64QAM, 16QAM, QPSK, BPSK for OFDM   |
| <b>MODULATION TECHNOLOGY</b> | DSSS, OFDM  |
| <b>TRANSFER RATE</b>         | 802.11b: 11 / 5.5 / 2 / 1Mbps<br>802.11g: 54 / 48 / 36 / 24 / 18 / 12 / 9 / 6Mbps<br>802.11n (20MHz, 800ns GI): 65 / 58.5 / 52 / 39 / 26 / 19.5<br>/ 13 / 6.5Mbps<br>802.11n (40MHz, 800ns GI): 135 / 121.5 / 108 / 81 / 54<br>/ 40.5 / 27 / 13.5Mbps<br>802.11n (20MHz, 400ns GI): 72.2 / 65 / 57.8 / 43.3 / 28.9<br>/ 21.7 / 14.4 / 7.2Mbps<br>802.11n (40MHz, 400ns GI): 150 / 135 / 120 / 90 / 60 / 45<br>/ 30 / 15Mbps |
| <b>FREQUENCY RANGE</b>       | 2412MHz ~ 2462MHz   |
| <b>NUMBER OF CHANNEL</b>     | 11 for 802.11b, 802.11g, 802.11n (20MHz)<br>7 for 802.11n (40MHz)   |
| <b>MAXIMUM OUTPUT POWER</b>  | 802.11b: 199.5mW<br>802.11g: 281.8mW<br>802.11n (20MHz): 263.0mW<br>802.11n (40MHz): 195.0mW  |
| <b>ANTENNA TYPE</b>          | Please see note 2   |
| <b>ANTENNA CONNECTOR</b>     | Please see note 2   |
| <b>DATA CABLE</b>            | NA  |
| <b>I/O PORT</b>              | RJ-45 port x 2 (Ethernet (10,100Mbps))<br>USB port x 1 (Option)<br>Antenna port x1  |
| <b>ASSOCIATED DEVICES</b>    | Adapter x1<br>Antenna x1  |



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**NOTE:**

1. The EUT has three product / brand names and five model names, which are identical to each other in all aspects except for the followings:

| Product name                                   | Brand name | Model name    | Different        |
|--|------------|---------------|------------------|
| 150Mbps Wireless-N Mini 3G Broadband Router    | AWB        | WR6202-1U     | with 3G USB Port |
| 150Mbps Wireless-N Mini Broadband Router       | AWB        | WR6202        | w/o 3G USB Port  |
| 150Mbps Wireless-N Mini 3G Broadband Router    | SMC        | SMCWBR11S-3GN | with 3G USB Port |
| 150Mbps Wireless-N Mini Broadband Router       | SMC        | SMCWBR11S-N   | w/o 3G USB Port  |
| Pareto Networks BG-100 Branch Services Gateway | Pareto     | BG-100        | with 3G USB Port |

From the above models, model: WR6202-1U was selected as representative model for the test and its data was recorded in this report.

2. There is one antenna provided to this EUT, please refer to the following table:

| Brand No. | Model No.   | Net Gain (dBi) | Cable Length(cm) | Antenna Type | Connector   |
|-----------|-------------|----------------|------------------|--------------|-------------|
| E.S.G.T   | E6601144081 | 2.35           | 7.5              | Dipole       | Reverse SMA |

3. The EUT must be supplied with a power adapter and following three different models could be chosen:

| <b>Adapter 1</b>      |  |
|-----------------------|--|
| <b>Brand:</b>         | APD  |
| <b>Model No.:</b>     | WA-12I12FU   |
| <b>Input power :</b>  | AC 100-240V, 0.5A Max., 50-60Hz<br>Cable:1.5m / unshielded |
| <b>Output power :</b> | DC 12V, 1A   |
| <b>Adapter 2</b>      |  |
| <b>Brand:</b>         | APD  |
| <b>Model No.:</b>     | WA-12I12R  |
| <b>Input power :</b>  | AC 100-240V, 0.5A Max., 50-60Hz<br>Cable:1.5m / unshielded |
| <b>Output power :</b> | DC 12V, 1A   |
| <b>Adapter 3</b>      |  |
| <b>Brand:</b>         | Sunny  |
| <b>Model No.:</b>     | SYS1381-1212-W2  |
| <b>Input power :</b>  | AC 100-240V, 0.5A Max., 50-60Hz<br>Cable:1.9m / unshielded |
| <b>Output power :</b> | DC 12V, 1A   |

The EUT was pre-tested in chamber with above adapters, the radiated emission worst case was found in model: **WA-12I12R**. Therefore only the test data of the mode was recorded in this report.



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4. The EUT could be applied with one 3G Card and following three different models could be chosen; therefore emission tests are added for simultaneously transmit between wireless LAN and 3G function. The emission tests have been performed at the worst channel of both WLAN and 3G, and recorded in other report. <only for test, not for sale>

| Item | Product name    | Brand name | Model name | FCC ID       |
|------|-----------------|------------|------------|--------------|
| 1    | HSDPA USB Stick | HUAWEI     | E169       | QISE169      |
| 2    | HSDPA USB MODEM | ZTE        | MF626      | Q78-ZTEMF626 |
| 3    | HSDPA USB MODEM | HUAWEI     | E220       | QISE220      |

The EUT was pre-tested in chamber with above 3G Cards, the worst case was found in model: E169. Therefore only the test data of the mode was recorded in this report.

5. The EUT was pre-tested under the following modes:

| Test Mode     | Description      |
|---------------|------------------|
| Mode A        | Level-set        |
| <b>Mode B</b> | <b>Tower-set</b> |

From the above modes, the radiated emission worst case was found in **Mode B**. Therefore only the test data of the mode was recorded in this report.

6. The EUT incorporates a SISO function with 802.11b, 802.11g, 802.11n. Physically, the EUT provides one completed transmitter and receiver.

7. The EUT is 1 \* 1 spatial SISO without beam forming function. The antenna configuration is one transmitter antenna and one receiver antenna, as there is 1 Dipole antenna. There is one transmitter and one receiver.

8. The EUT complies with 802.11n standards and backwards compatible with 802.11b, 802.11g products.

9. The EUT, operates in the 2.4GHz frequency range, lets you connect IEEE 802.11g or IEEE 802.11b and 802.11n technique devices to the network.

10. 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.

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### 3.2 DESCRIPTION OF TEST MODES

Eleven channels are provided for 802.11b, 802.11g:

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

Seven channels are provided for draft 802.11n (40MHz):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 1       | 2422MHz   | 5       | 2442MHz   |
| 2       | 2427MHz   | 6       | 2447MHz   |
| 3       | 2432MHz   | 7       | 2452MHz   |
| 4       | 2437MHz   |         |           |



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### 3.3 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL:

| EUT<br>configure<br>mode | Applicable to |       |       | Description                    |
|--------------------------|---------------|-------|-------|--------------------------------|
|                          | PLC           | RE<1G | RE≥1G |                                |
| A                        | ✓             | -     | -     | Co-located mode with adapter 1 |
| B                        | ✓             | ✓     | ✓     | Co-located mode with adapter 2 |
| C                        | ✓             | -     | -     | Co-located mode with adapter 3 |

Where

PLC: Power Line Conducted Emission

RE&lt;1G: Radiated Emission below 1GHz

RE≥1G: Radiated Emission above 1GHz

#### 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.

| MODE         | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) | EUT configure mode |
|--------------|-------------------|----------------|-----------------------|-----------------|------------------|--------------------|
| 802.11g / 3G | 1 to 11/ -        | 6 / 810        | OFDM / WCDMA          | BPSK / -        | 6 / -            | A, B, C            |

#### 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.

| MODE         | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) | EUT configure mode |
|--------------|-------------------|----------------|-----------------------|-----------------|------------------|--------------------|
| 802.11g / 3G | 1 to 11/ -        | 6 / 810        | OFDM / WCDMA          | BPSK / -        | 6 / -            | B                  |

#### 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.

| MODE         | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) | EUT configure mode |
|--------------|-------------------|----------------|-----------------------|-----------------|------------------|--------------------|
| 802.11g / 3G | 1 to 11/ -        | 6 / 810        | OFDM / WCDMA          | BPSK / -        | 6 / -            | B                  |



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**TEST CONDITION:**

| APPLICABLE TO | ENVIRONMENTAL CONDITIONS  | INPUT POWER (SYSTEM) | TESTED BY  |
|---------------|---------------------------|----------------------|------------|
| RE≥1G         | 15deg. C, 60%RH, 1024 hPa | 120Vac, 60Hz         | Kent Liu   |
| RE<1G         | 17deg. C, 58%RH, 1024 hPa | 120Vac, 60Hz         | Eagle Chen |
| PLC           | 25deg. C, 60%RH, 1024 hPa | 120Vac, 60Hz         | Timmy Hu   |

**3.4 GENERAL DESCRIPTION OF APPLIED STANDARDS**

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

**47 CFR Part 15, Subpart C. (15.247)**

**ANSI C63.4 : 2003**

All tests 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 47 CFR Part 15, Subpart B, Class B (DoC). The test report has been issued separately.



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### 3.5 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.

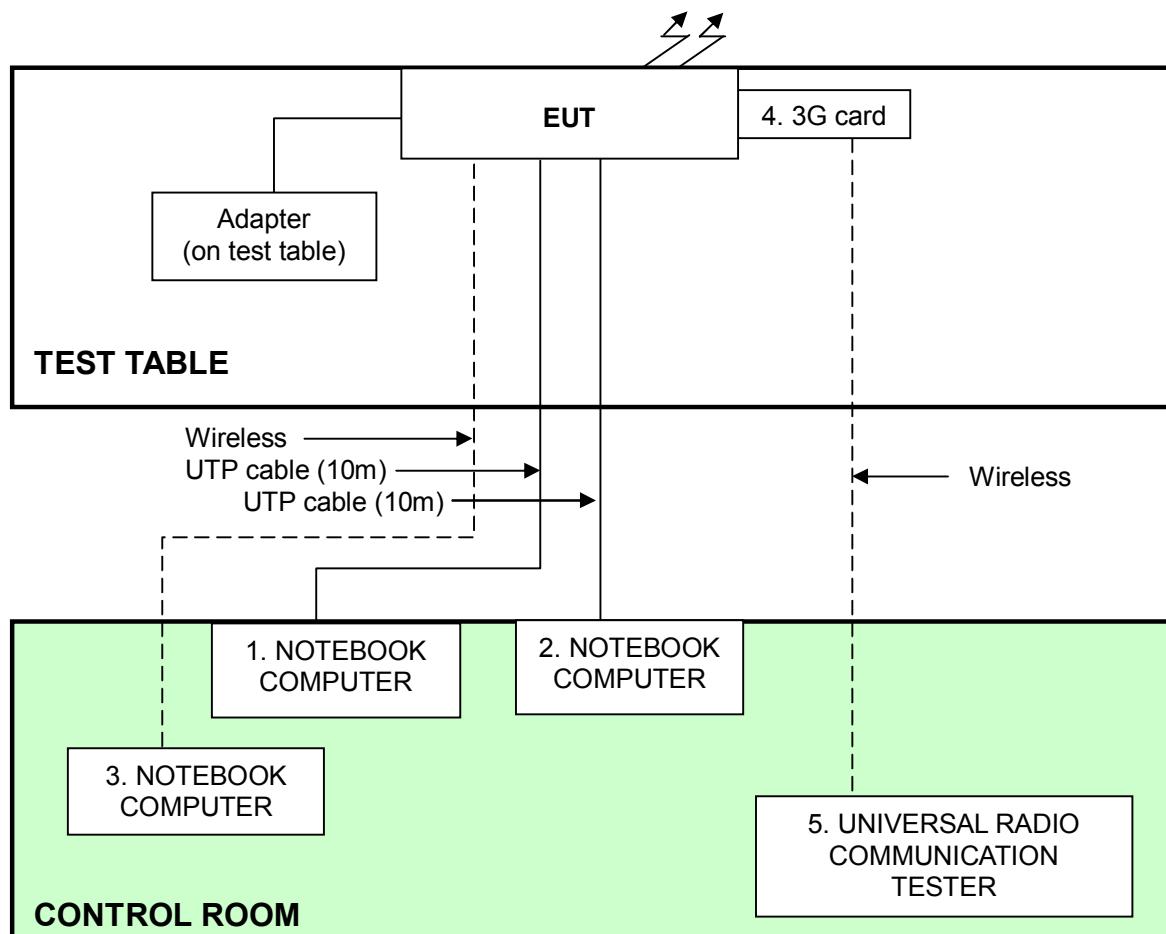
| NO. | PRODUCT                              | BRAND  | MODEL NO. | SERIAL NO.                   | FCC ID       |
|-----|--------------------------------------|--------|-----------|------------------------------|--------------|
| 1   | NOTEBOOK COMPUTER                    | DELL   | D531      | CN-0XM006-486<br>43-86L-4472 | QDS-BRCM1019 |
| 2   | NOTEBOOK COMPUTER                    | ASUS   | M2400N    | 4ANP088103                   | FCC DoC      |
| 3   | NOTEBOOK COMPUTER                    | DELL   | PP21L     | CN-0GD366-701<br>66-5B3-09ZX | QDS-BRCM1016 |
| 4   | 3G card                              | HUAWEI | E169      | NA                           | QISE169      |
| 5   | UNIVERSAL RADIO COMMUNICATION TESTER | R&S    | CMU200    | 104484                       | NA           |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS |
|-----|---|
| 1   | UTP cable (Unshielded, 10m)                         |
| 2   | UTP cable (Unshielded, 10m)                         |
| 3   | NA  |
| 4   | NA  |
| 5   | NA  |

**NOTE:** All power cords of the above support units are non shielded (1.8m).

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### 3.6 CONFIGURATION OF SYSTEM UNDER TEST





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## 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) |          |
|-----------------------------|------------------------------|----------|
|                             | Quasi-peak                   | Average  |
| 0.15-0.5                    | 66 to 56                     | 56 to 46 |
| 0.5-5                       | 56                           | 46       |
| 5-30                        | 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 DATE | CALIBRATED UNTIL |
|---|-----------------------|------------|-----------------|------------------|
| ROHDE & SCHWARZ<br>Test Receiver                            | ESCS 30               | 100287     | Mar. 05, 2009   | Mar. 04, 2010    |
| Line-Impedance<br>Stabilization Network<br>(for EUT)        | KNW-407               | 8-1395-12  | May 04, 2009    | May 03, 2010     |
| Line-Impedance<br>Stabilization Network<br>(for Peripheral) | ENV-216               | 100072     | June 08, 2009   | June 07, 2010    |
| RF Cable (JYEBAO)   | 5DFB                  | COACAB-001 | Dec. 14, 2009   | Dec. 13, 2010    |
| 50 ohms Terminator  | 50                    | 3          | Oct. 28, 2009   | Oct. 27, 2010    |
| Software  | BV<br>ADT_Cond_V7.3.7 | NA         | 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 Shielded Room No. A.
3. The VCCI Con A Registration No. is C-817.

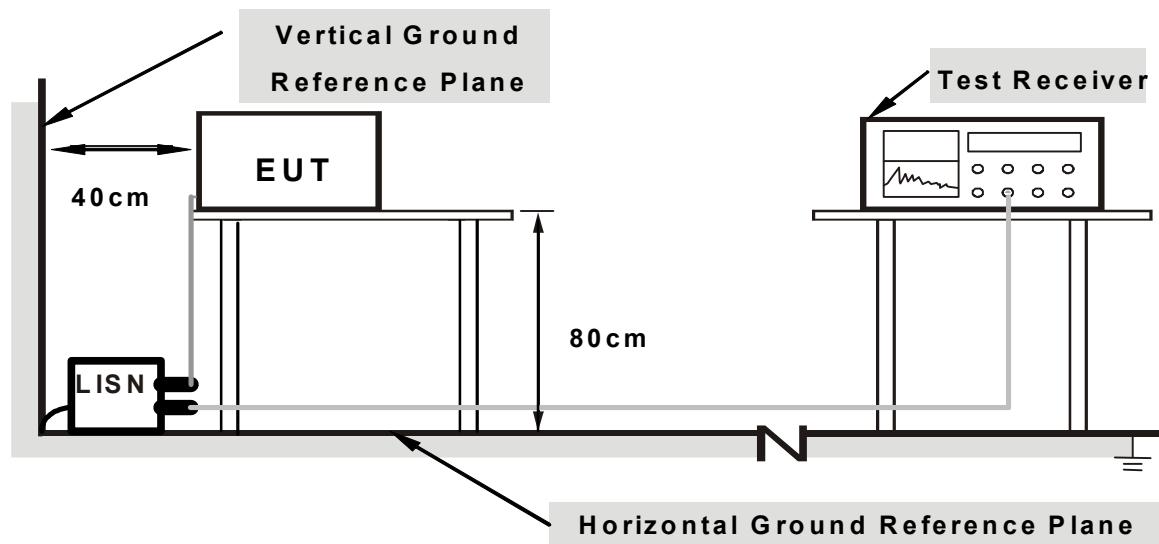
#### 4.1.3 TEST PROCEDURES

- 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.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were 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 related item – Photographs of the Test Configuration.



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#### 4.1.6 EUT OPERATING CONDITIONS

- a. Placed the EUT on testing table.
- b. The 3G card link support unit 5 (Universal Radio Communication Tester) via wireless.
- c. Prepared other computer systems (support units 1 ~ 3) to act as communication partners and placed them outside of testing area.
- d. The communication partners run test program “QA RT3052.exe” to enable EUT under transmission/receiving condition continuously via UTP cables.
- e. Repeat steps b-e.

#### 4.1.7 TEST RESULTS - With adapter 1

|           |                                 |               |       |
|-----------|---------------------------------|---------------|-------|
| PHASE     | Line (L)                        | 6dB BANDWIDTH | 9 kHz |
| TEST MODE | Co-location made with adapter 1 |               |       |

| No | Freq.  | Corr. | Reading Value |           | Emission Level |           | Limit |       | Margin |     |
|----|--------|-------|---------------|-----------|----------------|-----------|-------|-------|--------|-----|
|    |        |       | Factor        | [dB (uV)] | [dB (uV)]      | [dB (uV)] | Q.P.  | AV.   | Q.P.   | AV. |
|    |        |       | [MHz]         | (dB)      | Q.P.           | AV.       | Q.P.  | AV.   | Q.P.   | AV. |
| 1  | 0.150  | 0.04  | 53.73         | -         | 53.77          | -         | 66.00 | 56.00 | -12.23 | -   |
| 2  | 0.166  | 0.04  | 51.49         | -         | 51.53          | -         | 65.18 | 55.18 | -13.65 | -   |
| 3  | 0.326  | 0.05  | 44.41         | -         | 44.46          | -         | 59.56 | 49.56 | -15.10 | -   |
| 4  | 0.541  | 0.07  | 34.62         | -         | 34.69          | -         | 56.00 | 46.00 | -21.31 | -   |
| 5  | 2.523  | 0.14  | 30.71         | -         | 30.85          | -         | 56.00 | 46.00 | -25.15 | -   |
| 6  | 19.586 | 0.53  | 38.15         | -         | 38.68          | -         | 60.00 | 50.00 | -21.32 | -   |

**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.

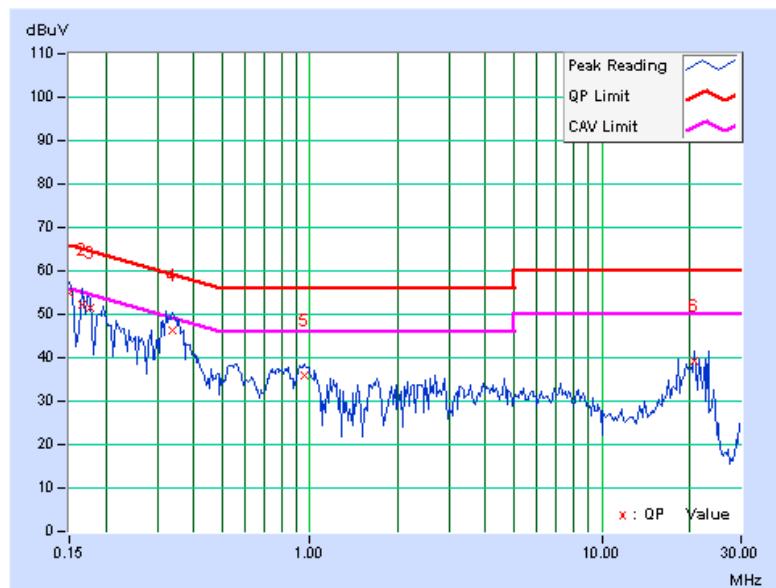


|           |                                 |               |       |
|-----------|---------------------------------|---------------|-------|
| PHASE     | Neutral (N)                     | 6dB BANDWIDTH | 9 kHz |
| TEST MODE | Co-location made with adapter 1 |               |       |

| 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  | 0.150          | 0.05          | 54.62         | -   | 54.67          | -   | 66.00     | 56.00 | -11.33 | -   |
| 2  | 0.166          | 0.05          | 52.16         | -   | 52.21          | -   | 65.18     | 55.18 | -12.97 | -   |
| 3  | 0.177          | 0.05          | 51.41         | -   | 51.46          | -   | 64.61     | 54.61 | -13.15 | -   |
| 4  | 0.338          | 0.06          | 46.28         | -   | 46.34          | -   | 59.26     | 49.26 | -12.92 | -   |
| 5  | 0.959          | 0.10          | 35.66         | -   | 35.76          | -   | 56.00     | 46.00 | -20.24 | -   |
| 6  | 20.809         | 0.59          | 38.52         | -   | 39.11          | -   | 60.00     | 50.00 | -20.89 | -   |

**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.

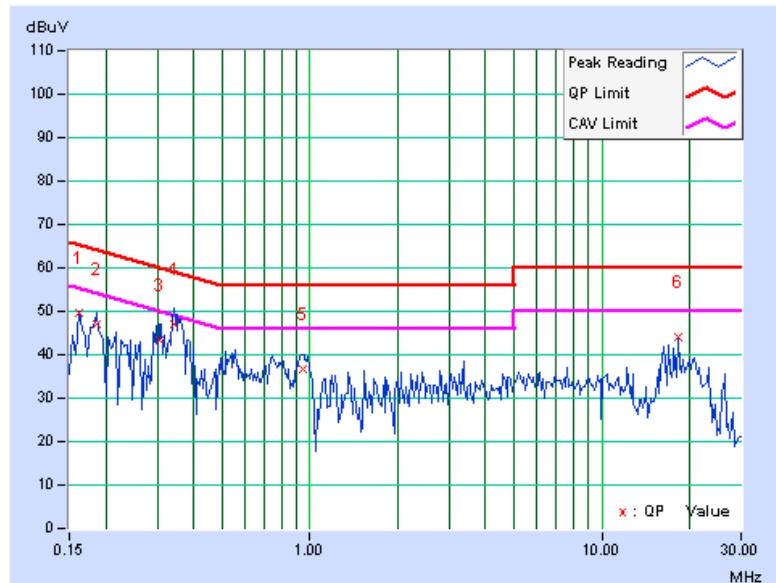


#### 4.1.8 TEST RESULTS - With adapter 2

|                  |                                 |                      |       |
|------------------|---------------------------------|----------------------|-------|
| <b>PHASE</b>     | Line (L)                        | <b>6dB BANDWIDTH</b> | 9 kHz |
| <b>TEST MODE</b> | Co-location made with adapter 2 |                      |       |

| 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  | 0.162          | 0.04          | 49.65         | -   | 49.69          | -   | 65.38     | 55.38 | -15.69 | -   |
| 2  | 0.185          | 0.04          | 46.87         | -   | 46.91          | -   | 64.25     | 54.25 | -17.34 | -   |
| 3  | 0.306          | 0.05          | 43.18         | -   | 43.23          | -   | 60.07     | 50.07 | -16.84 | -   |
| 4  | 0.341          | 0.05          | 46.81         | -   | 46.86          | -   | 59.17     | 49.17 | -12.30 | -   |
| 5  | 0.943          | 0.09          | 36.73         | -   | 36.82          | -   | 56.00     | 46.00 | -19.18 | -   |
| 6  | 18.242         | 0.51          | 43.69         | -   | 44.20          | -   | 60.00     | 50.00 | -15.80 | -   |

**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.

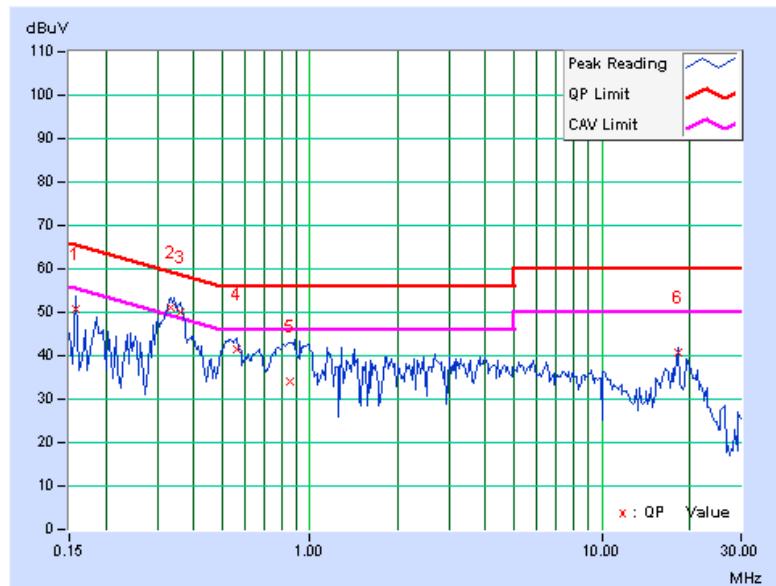


|           |                                 |               |       |
|-----------|---------------------------------|---------------|-------|
| PHASE     | Neutral (N)                     | 6dB BANDWIDTH | 9 kHz |
| TEST MODE | Co-location made with adapter 2 |               |       |

| No | Freq.        | Corr.       | Reading Value |              | Emission Level |              | Limit        |              | Margin       |              |
|----|--------------|-------------|---------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|
|    |              |             | [dB (uV)]     |              | [dB (uV)]      |              | [dB (uV)]    |              | (dB)         |              |
|    |              |             | [MHz]         | (dB)         | Q.P.           | AV.          | Q.P.         | AV.          | Q.P.         | AV.          |
| 1  | 0.158        | 0.05        | 50.57         | -            | 50.62          | -            | 65.58        | 55.58        | -14.96       | -            |
| 2  | <b>0.334</b> | <b>0.06</b> | <b>51.23</b>  | <b>45.94</b> | <b>51.29</b>   | <b>46.00</b> | <b>59.36</b> | <b>49.36</b> | <b>-8.07</b> | <b>-3.36</b> |
| 3  | 0.361        | 0.07        | 50.02         | 44.89        | 50.09          | 44.96        | 58.71        | 48.71        | -8.62        | -3.75        |
| 4  | 0.560        | 0.08        | 41.27         | -            | 41.35          | -            | 56.00        | 46.00        | -14.65       | -            |
| 5  | 0.853        | 0.09        | 33.98         | -            | 34.07          | -            | 56.00        | 46.00        | -21.93       | -            |
| 6  | 18.305       | 0.53        | 40.10         | -            | 40.63          | -            | 60.00        | 50.00        | -19.37       | -            |

**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.



#### 4.1.9 TEST RESULTS - With adapter 3

|                  |                                 |                      |       |
|------------------|---------------------------------|----------------------|-------|
| <b>PHASE</b>     | Line (L)                        | <b>6dB BANDWIDTH</b> | 9 kHz |
| <b>TEST MODE</b> | Co-location made with adapter 3 |                      |       |

| 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  | 0.295          | 0.05          | 37.09         | -   | 37.14          | -   | 60.39     | 50.39 | -23.25 | -   |
| 2  | 0.716          | 0.08          | 31.37         | -   | 31.45          | -   | 56.00     | 46.00 | -24.55 | -   |
| 3  | 0.873          | 0.08          | 29.44         | -   | 29.52          | -   | 56.00     | 46.00 | -26.48 | -   |
| 4  | 3.552          | 0.18          | 35.69         | -   | 35.87          | -   | 56.00     | 46.00 | -20.13 | -   |
| 5  | 15.363         | 0.47          | 39.26         | -   | 39.73          | -   | 60.00     | 50.00 | -20.27 | -   |
| 6  | 17.387         | 0.50          | 33.65         | -   | 34.15          | -   | 60.00     | 50.00 | -25.85 | -   |

**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.

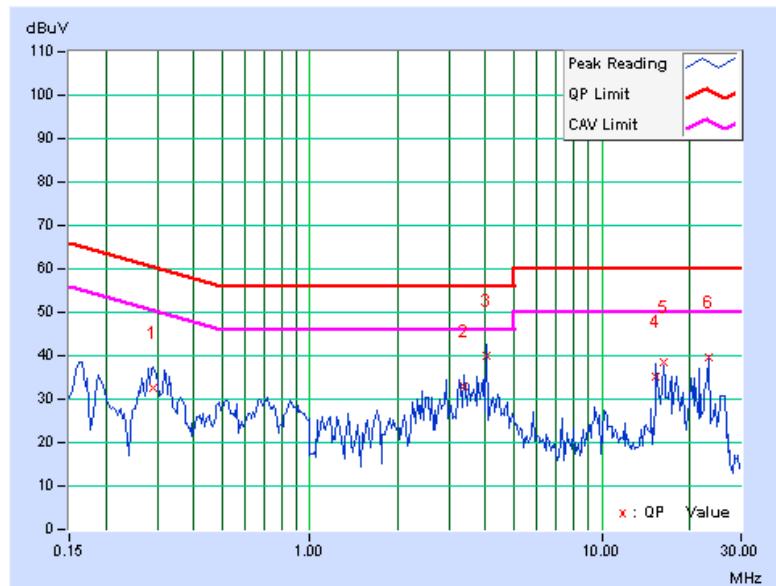


|           |                                 |               |       |
|-----------|---------------------------------|---------------|-------|
| PHASE     | Neutral (N)                     | 6dB BANDWIDTH | 9 kHz |
| TEST MODE | Co-location made with adapter 3 |               |       |

| 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  | 0.291          | 0.06          | 32.64         | -   | 32.70          | -   | 60.51     | 50.51 | -27.81 | -   |
| 2  | 3.391          | 0.19          | 32.74         | -   | 32.93          | -   | 56.00     | 46.00 | -23.07 | -   |
| 3  | 4.019          | 0.22          | 39.86         | -   | 40.08          | -   | 56.00     | 46.00 | -15.92 | -   |
| 4  | 15.391         | 0.49          | 34.87         | -   | 35.36          | -   | 60.00     | 50.00 | -24.64 | -   |
| 5  | 16.227         | 0.50          | 37.85         | -   | 38.35          | -   | 60.00     | 50.00 | -21.65 | -   |
| 6  | 23.129         | 0.68          | 38.84         | -   | 39.52          | -   | 60.00     | 50.00 | -20.48 | -   |

**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.





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## 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 (dB<sub>u</sub>V/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.



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#### 4.2.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER    | MODEL NO.                | SERIAL NO.          | CALIBRATED DATE | CALIBRATED UNTIL |
|-------------------------------|--------------------------|---------------------|-----------------|------------------|
| ADVANTEST Spectrum Analyzer   | U3751                    | 170100022           | Nov. 18, 2009   | Nov. 17, 2010    |
| ADVANTEST Spectrum Analyzer   | U3772                    | 160100280           | Sep. 21, 2009   | Sep. 20, 2010    |
| HP Pre_Amplifier              | 8449B                    | 3008A01922          | Sep. 25, 2009   | Sep. 24, 2010    |
| ROHDE & SCHWARZ Test Receiver | ESCS 30                  | 100027              | May 05, 2009    | May 04, 2010     |
| SCHWARZBECK Broadband Antenna | VULB-9168                | 263                 | April 29, 2009  | April 28, 2010   |
| Schwarzbeck Horn_Antenna      | BBHA9120                 | D123                | Sep. 21, 2009   | Sep. 20, 2010    |
| Schwarzbeck Horn_Antenna      | BBHA 9170                | BBHA9170153         | Jan. 22, 2010   | Jan. 21, 2011    |
| RF Switches                   | EM-H-01-1                | 1009                | Aug. 10, 2009   | Aug. 09, 2010    |
| RF Cable                      | 8DFB                     | STACAB-30M-1GHz-091 | Feb. 19, 2009   | Feb. 18, 2010    |
| Software                      | ADT_Radiated_V7.6.15.9.2 | NA                  | NA              | NA               |
| CT Antenna Tower & Turn Table | TT100                    | ADT01               | NA              | NA               |
| CORCOM AC Filter              | MRI2030                  | 107/108             | 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 horn antenna, HP preamplifier (model: 8449B) and Spectrum Analyzer (model: FSP40) are used only for the measurement of emission frequency above 1GHz if tested.  
3. The test was performed in Open Site No. C.  
4. The FCC Site Registration No. is 656396.  
5. The VCCI Site Registration No. is R-1626.  
6. The CANADA Site Registration No. is IC 7450G-3.



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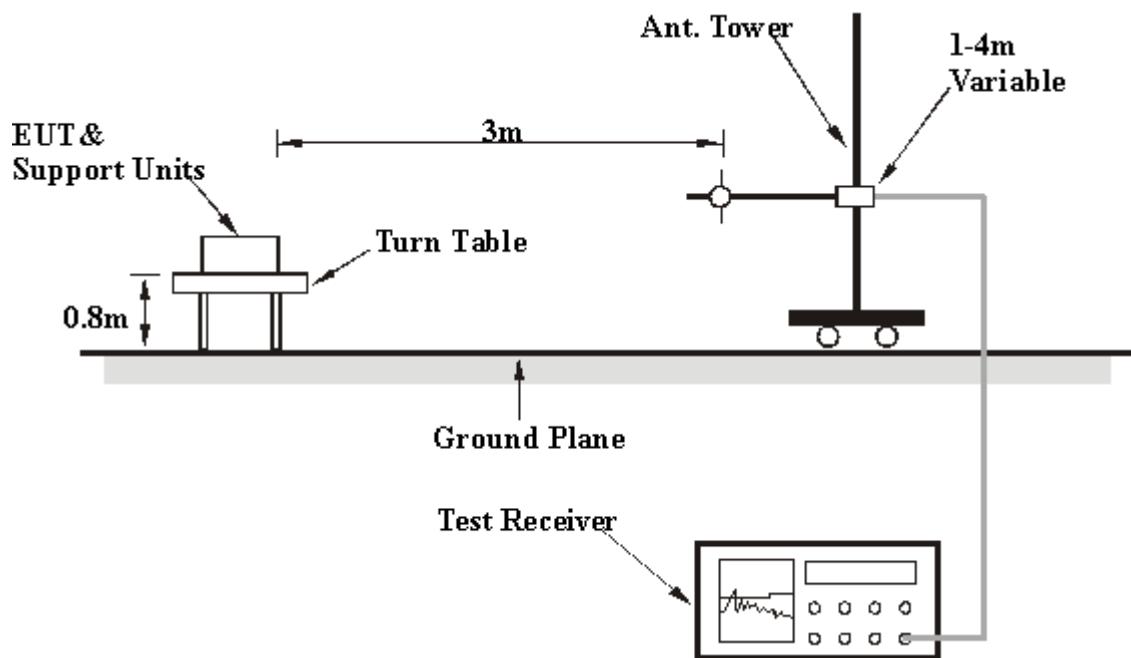
#### 4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. 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 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin 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 and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

#### 4.2.4 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

#### 4.2.5 EUT OPERATING CONDITIONS

Same as 4.1.6



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## 4.2.6 TEST RESULTS

### BELOW 1GHz WORST-CASE DATA :

| EUT TEST CONDITION              |  | MEASUREMENT DETAIL       |  |                           |
|---------------------------------|--|--------------------------|--|---------------------------|
| <b>CHANNEL</b>                  |  | <b>FREQUENCY RANGE</b>   |  | 30-1000 MHz               |
| <b>INPUT POWER</b>              |  | <b>DETECTOR FUNCTION</b> |  | Peak (PK)<br>Average (AV) |
| <b>ENVIRONMENTAL CONDITIONS</b> |  | <b>TESTED BY</b>         |  | Eagle Chen                |

| 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   | 125.00        | 33.11 QP                | 43.50          | -10.39       | 4.00 H             | 337                  | 20.57            | 12.54                    |
| 2   | 250.00        | 36.65 QP                | 46.00          | -9.35        | 3.17 H             | 47                   | 22.65            | 14.00                    |
| 3   | 375.00        | 35.52 QP                | 46.00          | -10.48       | 2.20 H             | 347                  | 18.14            | 17.38                    |
| 4   | <b>499.99</b> | <b>39.65 QP</b>         | <b>46.00</b>   | <b>-6.35</b> | <b>1.76 H</b>      | <b>31</b>            | <b>19.29</b>     | <b>20.36</b>             |
| 5   | 639.99        | 39.60 QP                | 46.00          | -6.40        | 1.41 H             | 33                   | 17.64            | 21.96                    |
| 6   | 853.32        | 37.94 QP                | 46.00          | -8.06        | 1.00 H             | 33                   | 13.65            | 24.29                    |
| 7   | 1000.00       | 42.70 QP                | 54.00          | -11.30       | 1.00 H             | 331                  | 17.14            | 25.56                    |
| 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   | 125.00        | 32.05 QP                | 43.50          | -11.45       | 1.00 V             | 43                   | 19.51            | 12.54                    |
| 2   | 250.00        | 37.32 QP                | 46.00          | -8.68        | 1.00 V             | 330                  | 23.32            | 14.00                    |
| 3   | 375.00        | 33.43 QP                | 46.00          | -12.57       | 2.12 V             | 348                  | 16.05            | 17.38                    |
| 4   | 500.00        | 37.45 QP                | 46.00          | -8.55        | 1.53 V             | 65                   | 17.09            | 20.36                    |
| 5   | 750.01        | 34.57 QP                | 46.00          | -11.43       | 2.24 V             | 349                  | 11.50            | 23.07                    |
| 6   | 875.01        | 35.71 QP                | 46.00          | -10.29       | 2.21 V             | 50                   | 11.15            | 24.56                    |
| 7   | 1000.00       | 40.26 QP                | 54.00          | -13.74       | 1.92 V             | 34                   | 14.70            | 25.56                    |

**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.



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#### 4.2.7 TEST RESULTS

##### Above 1GHz WORST-CASE DATA :

| EUT TEST CONDITION       |  | MEASUREMENT DETAIL                  |  |   |
|--------------------------|--|-------------------------------------|--|---|
| CHANNEL                  |  | 11g :Channel 6 /<br>3G :Channel 810 |  | FREQUENCY RANGE 1 ~ 25GHz                   |
| INPUT POWER              |  | 120Vac, 60 Hz                       |  | DETECTOR FUNCTION Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS |  | 17deg. C, 58%RH<br>1024hPa          |  | TESTED BY Eagle Chen                        |

| 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   | 1634.00     | 39.15 PK                | 74.00          | -34.85      | 1.05 H             | 154                  | 10.96            | 28.19                    |
| 2   | 1634.00     | 28.12 AV                | 54.00          | -25.88      | 1.05 H             | 154                  | -0.07            | 28.19                    |
| 3   | 4874.00     | 47.69 PK                | 74.00          | -26.31      | 1.02 H             | 198                  | 12.17            | 35.52                    |
| 4   | 4874.00     | 36.41 AV                | 54.00          | -17.59      | 1.02 H             | 198                  | 0.89             | 35.52                    |
| 5   | 7311.00     | 51.32 PK                | 74.00          | -22.68      | 1.22 H             | 95                   | 9.36             | 41.96                    |
| 6   | 7311.00     | 40.98 AV                | 54.00          | -13.02      | 1.22 H             | 95                   | -0.98            | 41.96                    |
| 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   | 1634.00     | 37.80 PK                | 74.00          | -36.20      | 1.04 V             | 254                  | 9.61             | 28.19                    |
| 2   | 1634.00     | 30.10 AV                | 54.00          | -23.90      | 1.04 V             | 254                  | 1.91             | 28.19                    |
| 3   | 4874.00     | 45.89 PK                | 74.00          | -28.11      | 1.33 V             | 247                  | 10.37            | 35.52                    |
| 4   | 4874.00     | 33.98 AV                | 54.00          | -20.02      | 1.33 V             | 247                  | -1.54            | 35.52                    |
| 5   | 7311.00     | 50.21 PK                | 74.00          | -23.79      | 1.08 V             | 54                   | 8.25             | 41.96                    |
| 6   | 7311.00     | 39.66 AV                | 54.00          | -14.34      | 1.08 V             | 54                   | -2.30            | 41.96                    |

**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.



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## 5 INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

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: 886-2-26052943

**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

**Email:** [service@adt.com.tw](mailto:service@adt.com.tw)

**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.



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## 6 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.

--- END ---