



# FCC TEST REPORT

**REPORT NO.:** RF930920L09

**MODEL NO.:** WL-565, WL-565B

**RECEIVED:** Aug. 23, 2004

**TESTED:** Aug. 23 ~ Sep. 30, 2004

**ISSUED:** Oct. 03, 2004

**APPLICANT:** 3Com Corporation

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**ISSUED BY:** Advance Data Technology Corporation

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R.O.C.

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## 1 CERTIFICATION

**PRODUCT :** Indoor 11g 54Mbps Building to Building Bridge,  
Outdoor 11g 54Mbps Building to Building Bridge

**MODEL NO. :** WL-565, WL-565B

**BRAND NAME :** 3COM

**APPLICANT :** 3Com Corporation

**TESTED :** Aug. 23 ~ Sep. 30, 2004

**TEST SAMPLE :** ENGINEERING SAMPLE

**STANDARDS :** FCC Part 15, Subpart C (Section 15.247),  
ANSI C63.4-2001

The above equipment (model: WL-565, WL-565B) has 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 :** Windy Chou , **DATE:** Oct. 03, 2004  
( Windy Chou )

**TECHNICAL**  
**ACCEPTANCE :** Gary Chang , **DATE:** Oct. 03, 2004  
Responsible for RF ( Gary Chang )

**APPROVED BY :** Cody Chang , **DATE:** Oct. 03, 2004  
( Cody Chang,  
Deputy Manager )

## 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 -13.62dB at 13.908MHz |
| 15.247(a)(2)                             | Spectrum Bandwidth of a Direct Sequence Spread Spectrum System<br>Limit: min. 500kHz    | PASS   | Meet the requirement of limit.                                                    |
| 15.247(b)                                | Maximum Peak Output Power<br>Limit: max. 30dBm                                          | PASS   | Meet the requirement of limit.                                                    |
| 15.247(c)                                | Transmitter Radiated Emissions<br>Limit: Table 15.209                                   | PASS   | Meet the requirement of limit.<br>Minimum passing margin is -0.95dB at 4824.00MHz |
| 15.247(d)                                | Power Spectral Density<br>Limit: max. 8dBm                                              | PASS   | Meet the requirement of limit.                                                    |
| 15.247(c)                                | Band Edge Measurement<br>Limit: 20 dB less than the peak value of fundamental frequency | PASS   | Meet the requirement of limit.                                                    |

### 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  | 3.73 dB     |
|                     | 200MHz ~1000MHz | 3.74 dB     |
|                     | 1GHz ~ 18GHz    | 2.20 dB     |
|                     | 18GHz ~ 40GHz   | 1.88 dB     |

### 3 GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

|                           |                                                                                                  |
|---------------------------|--------------------------------------------------------------------------------------------------|
| <b>PRODUCT</b>            | Indoor 11g 54Mbps Building to Building Bridge,<br>Outdoor 11g 54Mbps Building to Building Bridge |
| <b>MODEL NO.</b>          | WL-565, WL-565B                                                                                  |
| <b>POWER SUPPLY</b>       | 48Vdc from POE                                                                                   |
| <b>MODULATION TYPE</b>    | CCK, DQPSK, DBPSK for DSSS<br>64QAM, 16QAM, QPSK, BPSK for OFDM                                  |
| <b>RADIO 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                                    |
| <b>FREQUENCY RANGE</b>    | 2412MHz ~ 2462MHz                                                                                |
| <b>NUMBER OF CHANNEL</b>  | 11                                                                                               |
| <b>OUTPUT POWER</b>       | 50.12mW                                                                                          |
| <b>ANTENNA TYPE</b>       | Please refer to the <b>note 4</b> as below                                                       |
| <b>DATA CABLE</b>         | NA                                                                                               |
| <b>I/O PORTS</b>          | RJ45                                                                                             |
| <b>ASSOCIATED DEVICES</b> | NA                                                                                               |

**NOTE:**

1. The EUT was tested with the following two POE (Power over Ethernet):

*POE 1:*

|                 |                            |
|-----------------|----------------------------|
| <b>BRAND:</b>   | 3COM                       |
| <b>MODEL :</b>  | PW130RA4800N02             |
| <b>INPUT :</b>  | 100-250Vac, 50/60Hz, 500mA |
| <b>OUTPUT :</b> | 48Vdc, 420mA               |

*POE 2:*

|                 |                            |
|-----------------|----------------------------|
| <b>BRAND:</b>   | 3 COM                      |
| <b>MODEL :</b>  | 61-0107-000                |
| <b>INPUT :</b>  | 100-240Vac, 50/60Hz, 500mA |
| <b>OUTPUT :</b> | 48Vdc, 400mA               |

2. The EUT operates in the 2.4GHz frequency spectrum with throughput of up to 54Mbps.
3. The EUT complies with IEEE 802.11g standards and backwards compatible with IEEE 802.11b products.

4. There are 7 antennas provided to this EUT. The information about those antennas as below table:

| Ant. Type                                        | Ant. Gain | Ant. Connector (model) |
|--------------------------------------------------|-----------|------------------------|
| Hallway Bidirectional Ant. (Patch Ant.)          | 4.0dBi    | N-Type (3CWE497)       |
| Ceiling Mount Omnidirectional Ant. (Dipole Ant.) | 2.5dBi    | N-Type (3CWE492)       |
| Omnidirectional Ant. (Dipole Ant.)               | 4.0dBi    | N-Type (3CWE490)       |
| Omnidirectional Ant. (Dipole Ant.)               | 8.0 dBi   | N-Type (3CWE491)       |
| Sector-Panel Ant. (Patch Ant.)                   | 8.0dBi    | N-Type (3CWE498)       |
| Sector-Panel Ant. (Patch Ant.)                   | 13.0dBi   | N-Type (3CWE495)       |
| Sector-Panel Ant. (Patch Ant.)                   | 18.0dBi   | N-Type (3CWE496)       |

**Remark:** The antenna type: Hallway Bidirectional Ant. (gain: 4.0dBi), Omnidirectional Ant. (gain: 8.0dBi) and Sector-Panel Ant. (gain: 18.0dBi) are chosen for final test in this report. We have tested for each type of antenna and chosen the highest gain of each type for final test and reported.

5. This case has two EUTs provided in the following sections. The indoor has 7 antennas (as above table) and outdoor has only 1 antenna which type: Sector-Panel Ant. (gain: 18.0dBi).
6. This case has two EUTs (WL565B and WL565 with same PCB and power board) provided in the following sections. Please refer to the table as below for EUT's information:

| Product Name                                   | Model Name |
|------------------------------------------------|------------|
| Outdoor 11g 54Mbps Building to Building Bridge | WL-565B    |
| Indoor 11g 54Mbps Building to Building Bridge  | WL-565     |

7. 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  |         |           |

**NOTE:**

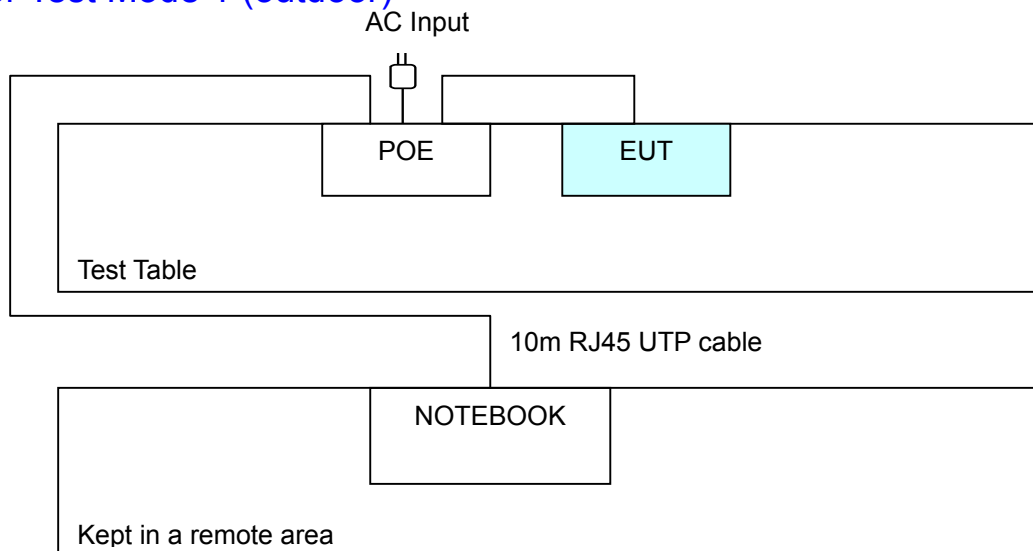
- Below 1GHz, the channel 1, 6, and 11 were pre-tested in chamber. The channel 11, the worst case, was chosen for final test. Above 1GHz, the channel 1, 6, and 11 were tested individually.
- After pre-testing all data rates, the worst cases were 11Mbps with DSSS technique, 6Mbps with OFDM technique.
- After pre-testing all test modes for the Conduction Emission Measurement, the worst case were WL-565B and tested with two POEs for final test recorded in the report.
- For the Radiation Emission Measurement, 4 test modes presented in the following section. The test mode 1 is for the outdoor model and the test mode 2 ~ 4 are for the indoor model. Please refer to the table as below:

| Test Mode | Description                            | Test Mode | Description                                  |
|-----------|----------------------------------------|-----------|----------------------------------------------|
| 1         | Sector-Panel Ant.<br>(gain: 18.0dBi)   | 2         | Hallway Bidirectional Ant.<br>(gain: 4.0dBi) |
| 3         | Omnidirectional Ant.<br>(gain: 8.0dBi) | 4         | Sector-Panel Ant.<br>(gain: 18.0dBi)         |

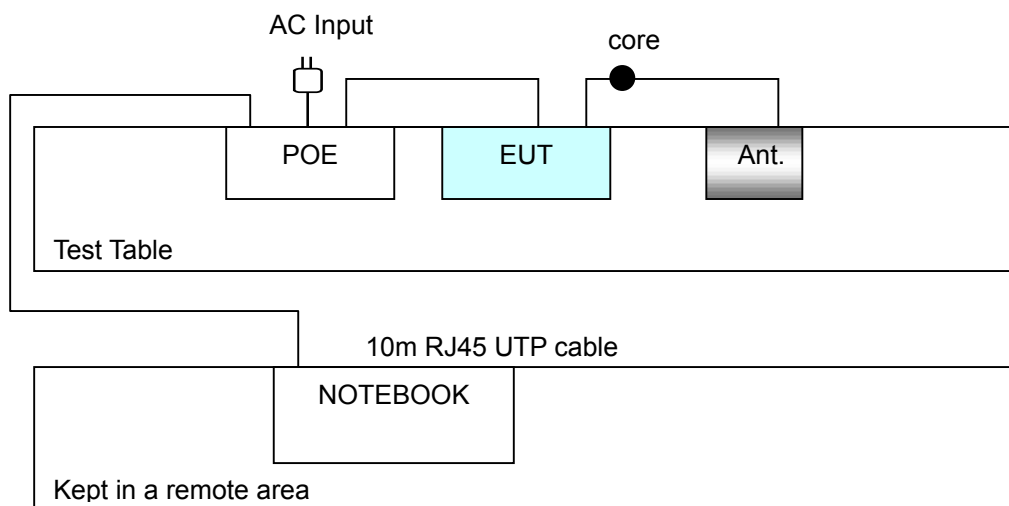
- Two test results were presented in the following sections. The test result A was for DSSS technique and the test result B was for OFDM technique.

### 3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

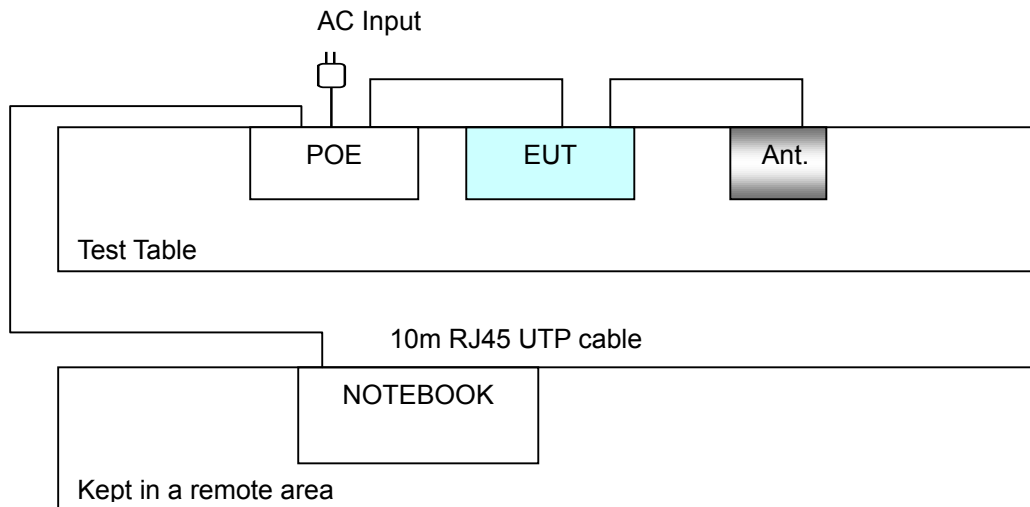
#### For Test Mode 1 (outdoor)



#### For Test Mode 2, 4 (indoor)



### For Test Mode 3 (indoor)



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

| EUT<br>configure<br>mode | Applicable to |       |        |        | Description |
|--------------------------|---------------|-------|--------|--------|-------------|
|                          | PLC           | RE<1G | RE≥1G  | APCM   |             |
| 1                        | Note 1        | x     | Note 2 | Note 3 | NA          |
| 2                        | Note 1        | x     | Note 2 | Note 3 | NA          |
| 3                        | Note 1        | x     | Note 2 | Note 3 | NA          |
| 4                        | Note 1        | x     | Note 2 | Note 3 | NA          |

Where PLC: Power Line Conducted Emission

RE<1G RE: Radiated Emission below 1GHz

RE≥1G: Radiated Emission above 1GHz

APCM: Antenna Port Conducted Measurement

Note 1: Pre-scan shown antenna has no effect for PLC test and only worst case recorded in the report.

Note 2: Pre-scan shown POE has no effect for radiated emission about 1GHz and only worst case recorded in the report.

Note 3: Conducted RF measurement is independent of antennas and POE.

#### 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) | USE POE |
|------|-------------------|----------------|-----------------------|-----------------|------------------|---------|
| 1    | 1 to 11           | 1, 6, 11       | OFDM                  | BPSK            | 6                | POE 1   |
| 1    | 1 to 11           | 1, 6, 11       | OFDM                  | BPSK            | 6                | POE 2   |



### **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) | USE POE |
|------------|-------------------|----------------|-----------------------|-----------------|------------------|---------|
| 1, 2, 3, 4 | 1 to 11           | 11             | OFDM                  | BPSK            | 6                | POE 1   |
| 1, 2, 3, 4 | 1 to 11           | 11             | OFDM                  | BPSK            | 6                | POE 2   |

### **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) | USE POE |
|------------|-------------------|----------------|-----------------------|-----------------|------------------|---------|
| 1, 2, 3, 4 | 1 to 11           | 1, 6, 11       | DSSS                  | CCK             | 11               | POE 1   |
| 1, 2, 3, 4 | 1 to 11           | 1, 6, 11       | OFDM                  | BPSK            | 6                | POE 2   |

### **Bandedge Measurement:**

- ☒ 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) |
|------|-------------------|----------------|-----------------------|-----------------|------------------|
| -    | 1 to 11           | 1, 11          | DSSS                  | CCK             | 11               |
| -    | 1 to 11           | 1, 11          | OFDM                  | BPSK            | 6                |

### **Antenna Port Conducted Measurement:**

- ☒ 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) |
|------|-------------------|----------------|-----------------------|-----------------|------------------|
| -    | 1 to 11           | 1, 6, 11       | DSSS                  | CCK             | 11               |
| -    | 1 to 11           | 1, 6, 11       | OFDM                  | BPSK            | 6                |



### 3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT are Indoor 11g 54Mbps Building to Building Bridge and Outdoor 11g 54Mbps Building to Building Bridge. 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 C63.4-2001**

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 |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS |
|-----|-----------------------------------------------------|
| 1   | NA                                                  |

**NOTE:**

1. All power cords of the above support units are non shielded (1.8m).
2. Item 1 act as a communication partner to transfer data.

## 4 TEST TYPES AND RESULTS

### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

| FREQUENCY OF EMISSION (MHz) | CONDUCTED LIMIT (dBμV) |          |
|-----------------------------|------------------------|----------|
|                             | 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 UNTIL |
|----------------------------------|-------------|----------------|------------------|
| Test Receiver<br>ROHDE & SCHWARZ | ESCS30      | 100291         | Dec. 12, 2004    |
| RF signal cable<br>Woken         | 5D-FB       | Cable-HYC01-01 | Mar. 02, 2005    |
| LISN<br>ROHDE & SCHWARZ          | ESH3-Z5     | 100312         | Mar. 03, 2005    |
| LISN<br>ROHDE & SCHWARZ          | ESH2-Z5     | 100104         | Mar. 02, 2005    |
| 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.



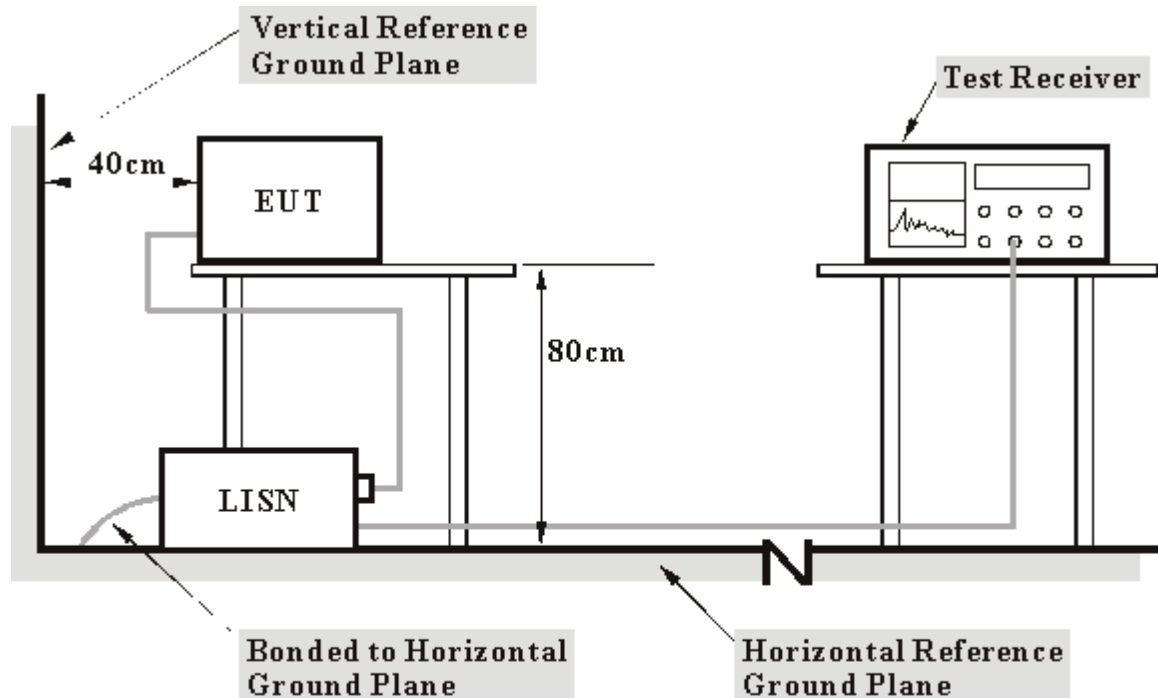
#### 4.1.3 TEST PROCEDURES

- 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 150 kHz to 30 MHz was searched. Emission levels (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) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

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

#### 4.1.6 EUT OPERATING CONDITIONS

- a. Placed the EUT on the testing table.
- b. Prepared another Notebook system to act as a communication partner and placed it outside of testing area.
- c. The communication partner connected with EUT via "RJ45" cable and run a Test program (provided by manufacturer) to enable EUT under transmission/Receiving condition continuously at specific channels frequency.
- d. The communication partner sent data to EUT by command "PING".

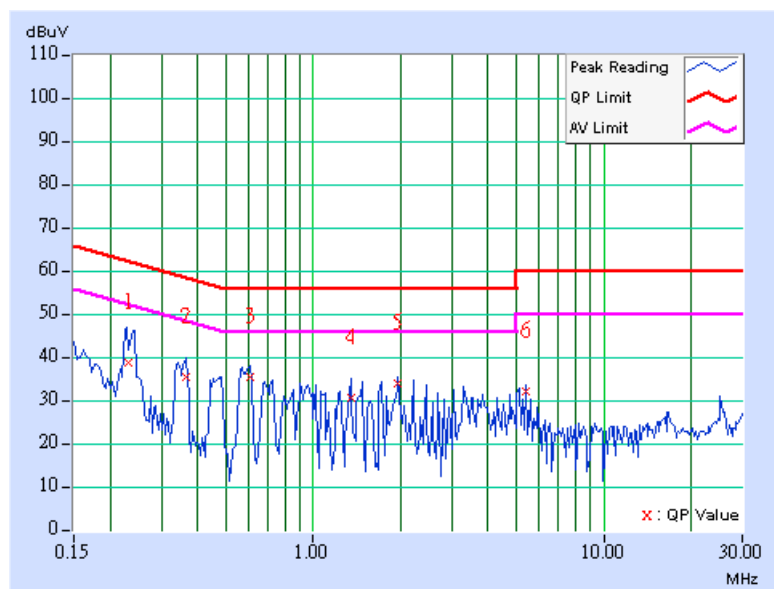
## 4.1.7 TEST RESULTS

## Test Mode 1- Conducted Worst-Case Data with POE 1

|                          |                                                |               |             |
|--------------------------|------------------------------------------------|---------------|-------------|
| EUT                      | Outdoor 11g 54Mbps Building to Building Bridge | MODEL         | WL-565B     |
| CHANNEL                  | 1                                              | POE (MODEL)   | 61-0107-000 |
| INPUT POWER (SYSTEM)     | 120 Vac, 60 Hz                                 | 6dB BANDWIDTH | 9 kHz       |
| ENVIRONMENTAL CONDITIONS | 25 deg. C, 65% RH, 991 hPa                     | PHASE         | Line (L)    |
| TESTED BY                | Rush Kao                                       |               |             |

| No | Freq.<br>[MHz] | Corr.<br>Factor<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  | 0.231          | 0.12                    | 38.69         | -   | 38.81          | -   | 62.42     | 52.42 | -23.61 | -   |
| 2  | 0.365          | 0.13                    | 35.48         | -   | 35.61          | -   | 58.62     | 48.62 | -23.01 | -   |
| 3  | 0.603          | 0.13                    | 35.43         | -   | 35.56          | -   | 56.00     | 46.00 | -20.44 | -   |
| 4  | 1.352          | 0.15                    | 30.52         | -   | 30.67          | -   | 56.00     | 46.00 | -25.33 | -   |
| 5  | 1.961          | 0.16                    | 33.67         | -   | 33.83          | -   | 56.00     | 46.00 | -22.17 | -   |
| 6  | 5.395          | 0.24                    | 32.07         | -   | 32.31          | -   | 60.00     | 50.00 | -27.69 | -   |

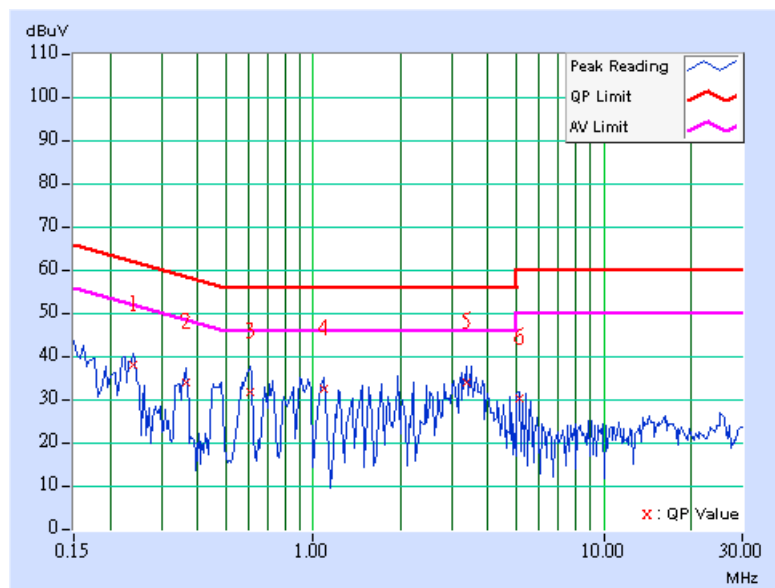
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.  
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.  
3. The emission levels of other frequencies were very low against the limit.  
4. Margin value = Emission level - Limit value  
5. Correction factor = Insertion loss + Cable loss  
6. Emission Level = Correction Factor + Reading Value.



|                                 |                                                |                      |             |
|---------------------------------|------------------------------------------------|----------------------|-------------|
| <b>EUT</b>                      | Outdoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>         | WL-565B     |
| <b>CHANNEL</b>                  | 1                                              | <b>POE (MODEL)</b>   | 61-0107-000 |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                 | <b>6dB BANDWIDTH</b> | 9 kHz       |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 65% RH, 991 hPa                     | <b>PHASE</b>         | Neutral (N) |
| <b>TESTED BY</b>                | Rush Kao                                       |                      |             |

| No | Freq.<br>[MHz] | Corr.<br>Factor<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  | 0.240          | 0.11                    | 37.94         | -   | 38.05          | -   | 62.10     | 52.10 | -24.05 | -   |
| 2  | 0.365          | 0.12                    | 33.67         | -   | 33.79          | -   | 58.62     | 48.62 | -24.83 | -   |
| 3  | 0.607          | 0.12                    | 31.78         | -   | 31.90          | -   | 56.00     | 46.00 | -24.10 | -   |
| 4  | 1.086          | 0.15                    | 32.28         | -   | 32.43          | -   | 56.00     | 46.00 | -23.57 | -   |
| 5  | 3.379          | 0.19                    | 33.75         | -   | 33.94          | -   | 56.00     | 46.00 | -22.06 | -   |
| 6  | 5.148          | 0.23                    | 30.22         | -   | 30.45          | -   | 60.00     | 50.00 | -29.55 | -   |

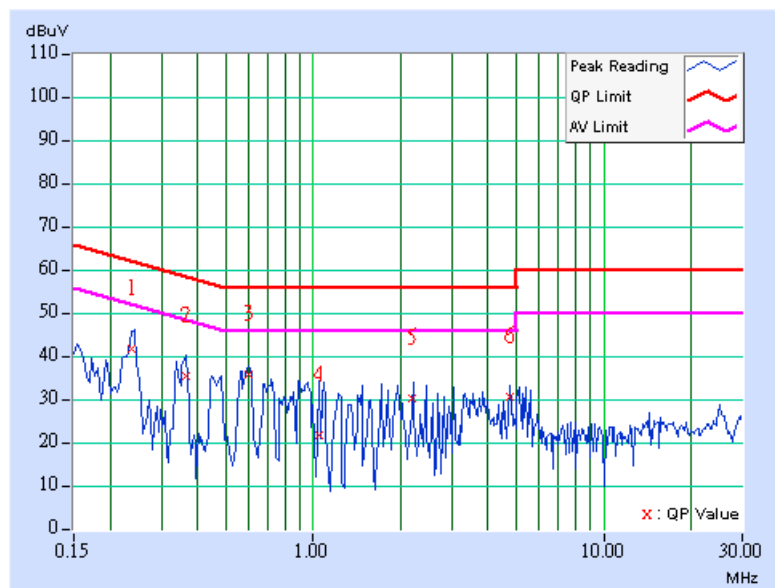
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



|                                 |                                                |                      |             |
|---------------------------------|------------------------------------------------|----------------------|-------------|
| <b>EUT</b>                      | Outdoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>         | WL-565B     |
| <b>CHANNEL</b>                  | 6                                              | <b>POE (MODEL)</b>   | 61-0107-000 |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                 | <b>6dB BANDWIDTH</b> | 9 kHz       |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 65% RH, 991 hPa                     | <b>PHASE</b>         | Line (L)    |
| <b>TESTED BY</b>                | Rush Kao                                       |                      |             |

| No | Freq.<br>[MHz] | Corr.<br>Factor<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  | 0.236          | 0.12                    | 41.73         | -   | 41.85          | -   | 62.24     | 52.24 | -20.39 | -   |
| 2  | 0.365          | 0.13                    | 35.49         | -   | 35.62          | -   | 58.62     | 48.62 | -23.00 | -   |
| 3  | 0.599          | 0.13                    | 35.54         | -   | 35.67          | -   | 56.00     | 46.00 | -20.33 | -   |
| 4  | 1.043          | 0.15                    | 21.81         | -   | 21.96          | -   | 56.00     | 46.00 | -34.04 | -   |
| 5  | 2.202          | 0.16                    | 30.32         | -   | 30.48          | -   | 56.00     | 46.00 | -25.52 | -   |
| 6  | 4.777          | 0.23                    | 30.44         | -   | 30.67          | -   | 56.00     | 46.00 | -25.33 | -   |

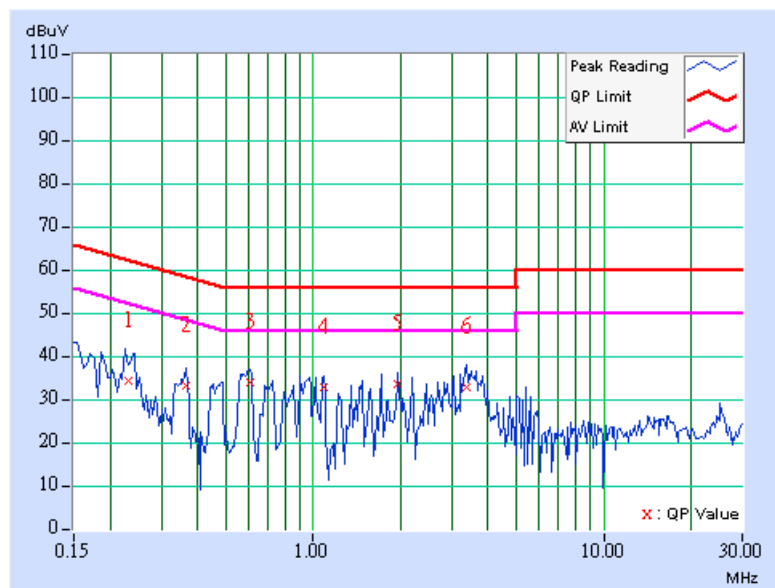
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.  
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.  
3. The emission levels of other frequencies were very low against the limit.  
4. Margin value = Emission level - Limit value  
5. Correction factor = Insertion loss + Cable loss  
6. Emission Level = Correction Factor + Reading Value.



|                                 |                                                |                      |             |
|---------------------------------|------------------------------------------------|----------------------|-------------|
| <b>EUT</b>                      | Outdoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>         | WL-565B     |
| <b>CHANNEL</b>                  | 6                                              | <b>POE (MODEL)</b>   | 61-0107-000 |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                 | <b>6dB BANDWIDTH</b> | 9 kHz       |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 65% RH, 991 hPa                     | <b>PHASE</b>         | Neutral (N) |
| <b>TESTED BY</b>                | Rush Kao                                       |                      |             |

| No | Freq.<br>[MHz] | Corr.<br>Factor<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  | 0.231          | 0.11                    | 34.16         | -   | 34.27          | -   | 62.43     | 52.43 | -28.16 | -   |
| 2  | 0.365          | 0.12                    | 33.02         | -   | 33.14          | -   | 58.62     | 48.62 | -25.48 | -   |
| 3  | 0.603          | 0.12                    | 34.03         | -   | 34.15          | -   | 56.00     | 46.00 | -21.85 | -   |
| 4  | 1.082          | 0.15                    | 32.70         | -   | 32.85          | -   | 56.00     | 46.00 | -23.15 | -   |
| 5  | 1.961          | 0.16                    | 33.65         | -   | 33.81          | -   | 56.00     | 46.00 | -22.19 | -   |
| 6  | 3.391          | 0.19                    | 32.59         | -   | 32.78          | -   | 56.00     | 46.00 | -23.22 | -   |

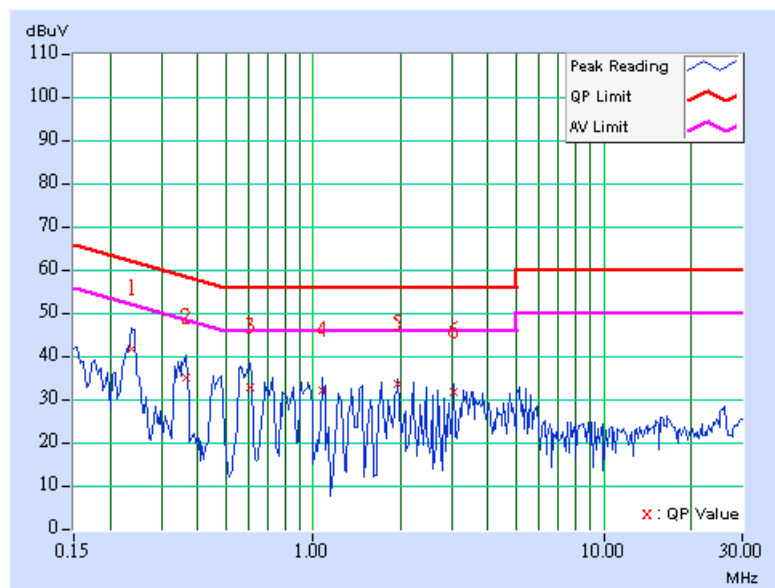
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



|                                 |                                                |                      |             |
|---------------------------------|------------------------------------------------|----------------------|-------------|
| <b>EUT</b>                      | Outdoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>         | WL-565B     |
| <b>CHANNEL</b>                  | 11                                             | <b>POE (MODEL)</b>   | 61-0107-000 |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                 | <b>6dB BANDWIDTH</b> | 9 kHz       |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 65% RH, 991 hPa                     | <b>PHASE</b>         | Line (L)    |
| <b>TESTED BY</b>                | Rush Kao                                       |                      |             |

| No | Freq.<br>[MHz] | Corr.<br>Factor<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  | 0.236          | 0.12                    | 41.84         | -   | 41.96          | -   | 62.24     | 52.24 | -20.28 | -   |
| 2  | 0.365          | 0.13                    | 34.96         | -   | 35.09          | -   | 58.62     | 48.62 | -23.53 | -   |
| 3  | 0.607          | 0.13                    | 32.73         | -   | 32.86          | -   | 56.00     | 46.00 | -23.14 | -   |
| 4  | 1.078          | 0.15                    | 32.02         | -   | 32.17          | -   | 56.00     | 46.00 | -23.83 | -   |
| 5  | 1.961          | 0.16                    | 33.57         | -   | 33.73          | -   | 56.00     | 46.00 | -22.27 | -   |
| 6  | 3.063          | 0.18                    | 31.60         | -   | 31.78          | -   | 56.00     | 46.00 | -24.22 | -   |

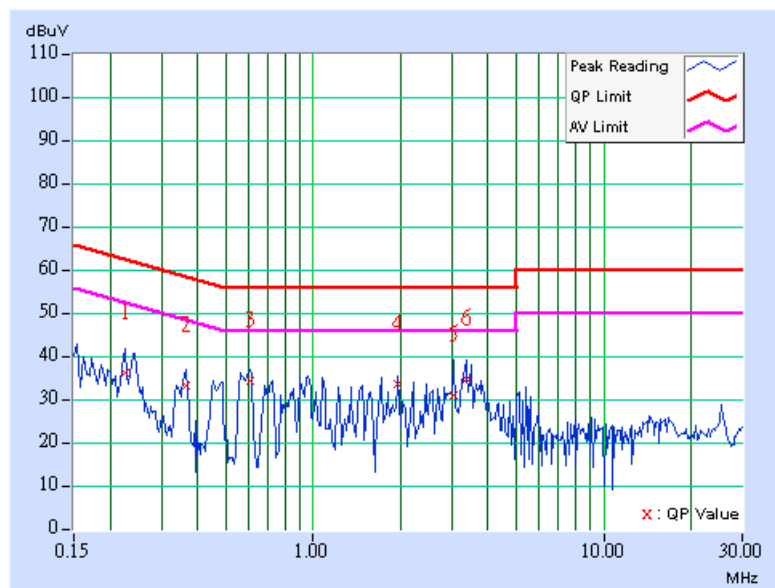
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



|                                 |                                                |                      |             |
|---------------------------------|------------------------------------------------|----------------------|-------------|
| <b>EUT</b>                      | Outdoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>         | WL-565B     |
| <b>CHANNEL</b>                  | 11                                             | <b>POE (MODEL)</b>   | 61-0107-000 |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                 | <b>6dB BANDWIDTH</b> | 9 kHz       |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 65% RH, 991 hPa                     | <b>PHASE</b>         | Neutral (N) |
| <b>TESTED BY</b>                | Rush Kao                                       |                      |             |

| No | Freq.<br>[MHz] | Corr.<br>Factor<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  | 0.224          | 0.11                    | 35.94         | -   | 36.05          | -   | 62.66     | 52.66 | -26.61 | -   |
| 2  | 0.365          | 0.12                    | 33.00         | -   | 33.12          | -   | 58.62     | 48.62 | -25.50 | -   |
| 3  | 0.603          | 0.12                    | 34.25         | -   | 34.37          | -   | 56.00     | 46.00 | -21.63 | -   |
| 4  | 1.961          | 0.16                    | 33.69         | -   | 33.85          | -   | 56.00     | 46.00 | -22.15 | -   |
| 5  | 3.059          | 0.18                    | 30.94         | -   | 31.12          | -   | 56.00     | 46.00 | -24.88 | -   |
| 6  | 3.367          | 0.19                    | 34.50         | -   | 34.69          | -   | 56.00     | 46.00 | -21.31 | -   |

- 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.

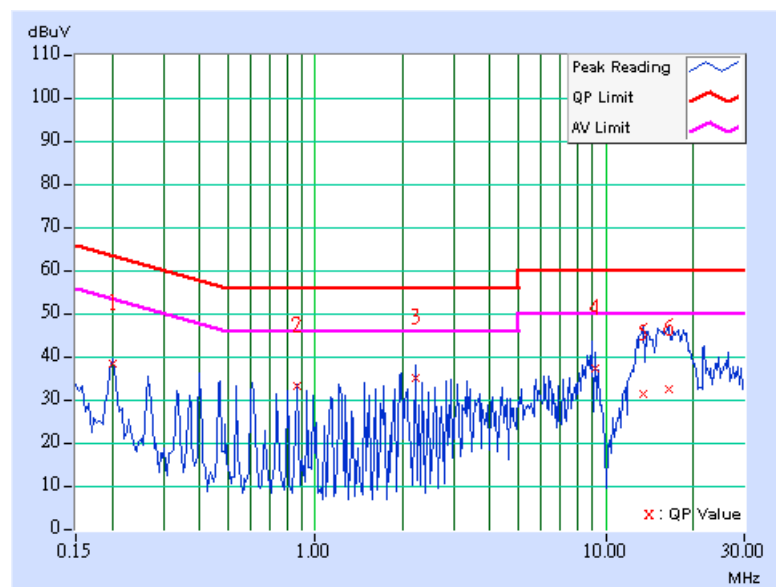


**Test Mode 1- Conducted Worst-Case Data with POE 2**

|                                 |                                                |                      |                 |
|---------------------------------|------------------------------------------------|----------------------|-----------------|
| <b>EUT</b>                      | Outdoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>         | WL-565B         |
| <b>CHANNEL</b>                  | 1                                              | <b>POE (MODEL)</b>   | PW130RA4800 N02 |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                 | <b>6dB BANDWIDTH</b> | 9 kHz           |
| <b>ENVIRONMENTAL CONDITIONS</b> | 24 deg. C, 64% RH, 991 hPa                     | <b>PHASE</b>         | Line (L)        |
| <b>TESTED BY</b>                | Leo Hung                                       |                      |                 |

| No | Freq.<br>[MHz] | Corr.<br>Factor<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  | 0.201          | 0.12                    | 37.62         | -   | 37.74          | -   | 63.58     | 53.58 | -25.84 | -   |
| 2  | 0.869          | 0.14                    | 32.37         | -   | 32.51          | -   | 56.00     | 46.00 | -23.49 | -   |
| 3  | 2.211          | 0.16                    | 34.24         | -   | 34.40          | -   | 56.00     | 46.00 | -21.60 | -   |
| 4  | 9.246          | 0.30                    | 36.58         | -   | 36.88          | -   | 60.00     | 50.00 | -23.12 | -   |
| 5  | 13.527         | 0.64                    | 30.45         | -   | 31.09          | -   | 60.00     | 50.00 | -28.91 | -   |
| 6  | 16.477         | 0.85                    | 31.71         | -   | 32.56          | -   | 60.00     | 50.00 | -27.44 | -   |

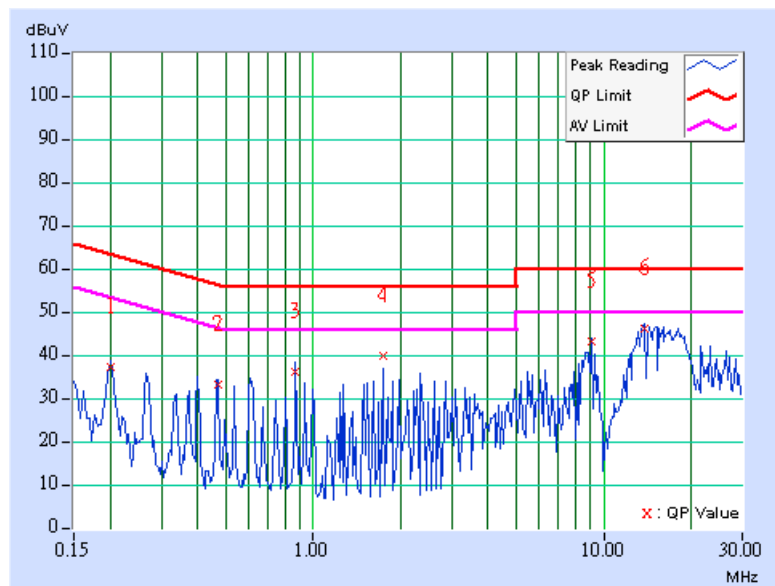
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.  
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.  
3. The emission levels of other frequencies were very low against the limit.  
4. Margin value = Emission level - Limit value  
5. Correction factor = Insertion loss + Cable loss  
6. Emission Level = Correction Factor + Reading Value.



|                                 |                                                |                      |                 |
|---------------------------------|------------------------------------------------|----------------------|-----------------|
| <b>EUT</b>                      | Outdoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>         | WL-565B         |
| <b>CHANNEL</b>                  | 1                                              | <b>POE (MODEL)</b>   | PW130RA480 0N02 |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                 | <b>6dB BANDWIDTH</b> | 9 kHz           |
| <b>ENVIRONMENTAL CONDITIONS</b> | 24 deg. C, 64% RH, 991 hPa                     | <b>PHASE</b>         | Neutral (N)     |
| <b>TESTED BY</b>                | Leo Hung                                       |                      |                 |

| No | Freq.<br>[MHz] | Corr.<br>Factor<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  | 0.201          | 0.11                    | 36.83         | -   | 36.94          | -   | 63.58     | 53.58 | -26.64 | -   |
| 2  | 0.470          | 0.12                    | 32.95         | -   | 33.07          | -   | 56.51     | 46.51 | -23.44 | -   |
| 3  | 0.869          | 0.14                    | 35.91         | -   | 36.05          | -   | 56.00     | 46.00 | -19.95 | -   |
| 4  | 1.738          | 0.16                    | 39.52         | -   | 39.68          | -   | 56.00     | 46.00 | -16.32 | -   |
| 5  | 9.055          | 0.28                    | 42.63         | -   | 42.91          | -   | 60.00     | 50.00 | -17.09 | -   |
| 6  | 13.896         | 0.56                    | 45.81         | -   | 46.37          | -   | 60.00     | 50.00 | -13.63 | -   |

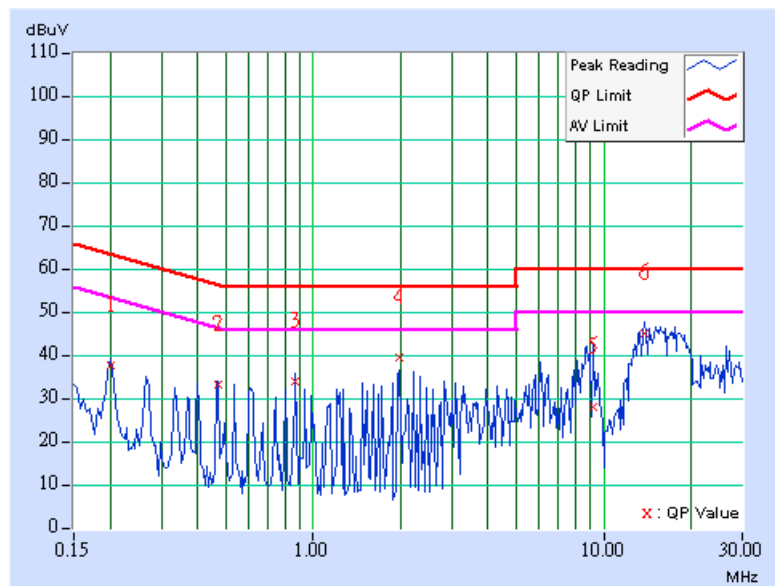
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



|                                 |                                                |                      |                 |
|---------------------------------|------------------------------------------------|----------------------|-----------------|
| <b>EUT</b>                      | Outdoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>         | WL-565B         |
| <b>CHANNEL</b>                  | 6                                              | <b>POE (MODEL)</b>   | PW130RA480 0N02 |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                 | <b>6dB BANDWIDTH</b> | 9 kHz           |
| <b>ENVIRONMENTAL CONDITIONS</b> | 24 deg. C, 64% RH, 991 hPa                     | <b>PHASE</b>         | Line (L)        |
| <b>TESTED BY</b>                | Leo Hung                                       |                      |                 |

| No | Freq.<br>[MHz] | Corr.<br>Factor<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  | 0.201          | 0.12                    | 37.13         | -   | 37.25          | -   | 63.58     | 53.58 | -26.33 | -   |
| 2  | 0.470          | 0.13                    | 32.83         | -   | 32.96          | -   | 56.51     | 46.51 | -23.55 | -   |
| 3  | 0.869          | 0.14                    | 33.33         | -   | 33.47          | -   | 56.00     | 46.00 | -22.53 | -   |
| 4  | 1.977          | 0.16                    | 39.14         | -   | 39.30          | -   | 56.00     | 46.00 | -16.70 | -   |
| 5  | 9.258          | 0.30                    | 27.47         | -   | 27.77          | -   | 60.00     | 50.00 | -32.23 | -   |
| 6  | 13.837         | 0.67                    | 44.61         | -   | 45.28          | -   | 60.00     | 50.00 | -14.72 | -   |

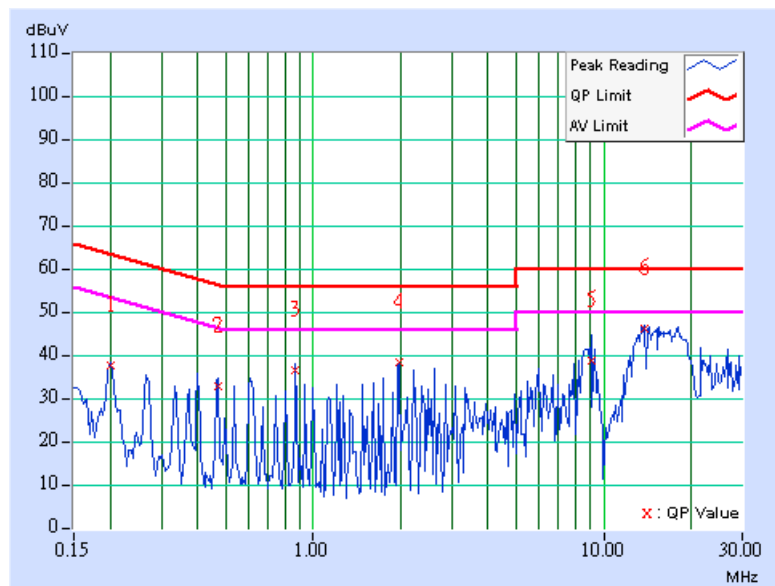
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



|                                 |                                                |                      |                 |
|---------------------------------|------------------------------------------------|----------------------|-----------------|
| <b>EUT</b>                      | Outdoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>         | WL-565B         |
| <b>CHANNEL</b>                  | 6                                              | <b>POE (MODEL)</b>   | PW130RA480 0N02 |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                 | <b>6dB BANDWIDTH</b> | 9 kHz           |
| <b>ENVIRONMENTAL CONDITIONS</b> | 24 deg. C, 64% RH, 991 hPa                     | <b>PHASE</b>         | Neutral (N)     |
| <b>TESTED BY</b>                | Leo Hung                                       |                      |                 |

| No | Freq.<br>[MHz] | Corr.<br>Factor<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  | 0.201          | 0.11                    | 37.23         | -   | 37.34          | -   | 63.58     | 53.58 | -26.24 | -   |
| 2  | 0.470          | 0.12                    | 32.42         | -   | 32.54          | -   | 56.51     | 46.51 | -23.97 | -   |
| 3  | 0.869          | 0.14                    | 35.99         | -   | 36.13          | -   | 56.00     | 46.00 | -19.87 | -   |
| 4  | 1.984          | 0.16                    | 37.79         | -   | 37.95          | -   | 56.00     | 46.00 | -18.05 | -   |
| 5  | 9.059          | 0.28                    | 38.35         | -   | 38.63          | -   | 60.00     | 50.00 | -21.37 | -   |
| 6  | 13.908         | 0.56                    | 45.82         | -   | 46.38          | -   | 60.00     | 50.00 | -13.62 | -   |

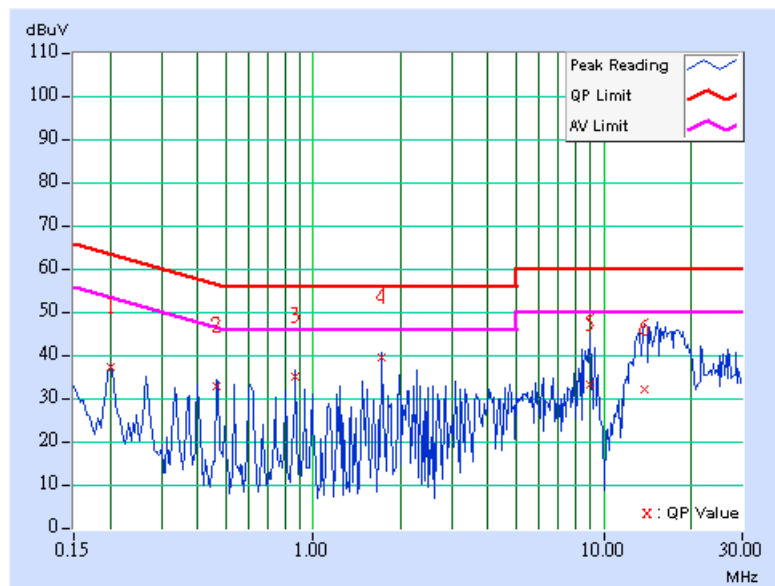
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



|                                 |                                                |                      |                 |
|---------------------------------|------------------------------------------------|----------------------|-----------------|
| <b>EUT</b>                      | Outdoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>         | WL-565B         |
| <b>CHANNEL</b>                  | 11                                             | <b>POE (MODEL)</b>   | PW130RA480 0N02 |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                 | <b>6dB BANDWIDTH</b> | 9 kHz           |
| <b>ENVIRONMENTAL CONDITIONS</b> | 24 deg. C, 64% RH, 991 hPa                     | <b>PHASE</b>         | Line (L)        |
| <b>TESTED BY</b>                | Leo Hung                                       |                      |                 |

| No | Freq.<br>[MHz] | Corr.<br>Factor<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  | 0.201          | 0.12                    | 36.81         | -   | 36.93          | -   | 63.58     | 53.58 | -26.65 | -   |
| 2  | 0.466          | 0.13                    | 32.41         | -   | 32.54          | -   | 56.58     | 46.58 | -24.04 | -   |
| 3  | 0.869          | 0.14                    | 34.59         | -   | 34.73          | -   | 56.00     | 46.00 | -21.27 | -   |
| 4  | 1.730          | 0.16                    | 38.94         | -   | 39.10          | -   | 56.00     | 46.00 | -16.90 | -   |
| 5  | 9.023          | 0.30                    | 32.56         | -   | 32.86          | -   | 60.00     | 50.00 | -27.14 | -   |
| 6  | 13.848         | 0.67                    | 31.65         | -   | 32.32          | -   | 60.00     | 50.00 | -27.68 | -   |

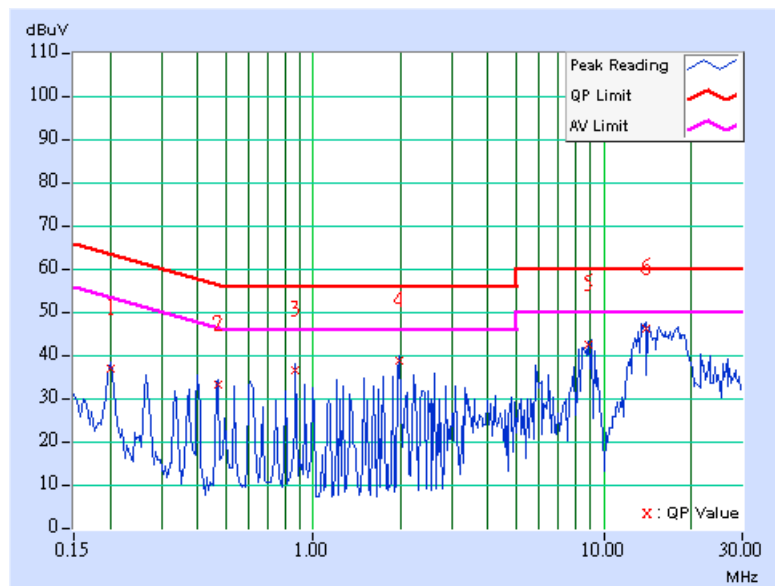
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



|                                 |                                                |                      |                 |
|---------------------------------|------------------------------------------------|----------------------|-----------------|
| <b>EUT</b>                      | Outdoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>         | WL-565B         |
| <b>CHANNEL</b>                  | 11                                             | <b>POE (MODEL)</b>   | PW130RA4800 N02 |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                 | <b>6dB BANDWIDTH</b> | 9 kHz           |
| <b>ENVIRONMENTAL CONDITIONS</b> | 24 deg. C, 64% RH, 991 hPa                     | <b>PHASE</b>         | Neutral (N)     |
| <b>TESTED BY</b>                | Leo Hung                                       |                      |                 |

| No | Freq.<br>[MHz] | Corr.<br>Factor<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  | 0.201          | 0.11                    | 36.46         | -   | 36.57          | -   | 63.58     | 53.58 | -27.01 | -   |
| 2  | 0.470          | 0.12                    | 32.93         | -   | 33.05          | -   | 56.51     | 46.51 | -23.46 | -   |
| 3  | 0.869          | 0.14                    | 36.11         | -   | 36.25          | -   | 56.00     | 46.00 | -19.75 | -   |
| 4  | 1.988          | 0.16                    | 38.41         | -   | 38.57          | -   | 56.00     | 46.00 | -17.43 | -   |
| 5  | 8.816          | 0.28                    | 41.94         | -   | 42.22          | -   | 60.00     | 50.00 | -17.78 | -   |
| 6  | 13.910         | 0.56                    | 45.68         | -   | 46.24          | -   | 60.00     | 50.00 | -13.76 | -   |

- 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<br>(MHz) | Field strength<br>(microvolts/meter) | Measurement distance<br>(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     | ESIB7              | 100188       | Jan. 13, 2005    |
| Spectrum Analyzer<br>ROHDE & SCHWARZ | FSP40              | 100039       | Dec. 15, 2004    |
| BILOG Antenna<br>SCHWARZBECK         | VULB9168           | 9168-157     | Feb. 03, 2005    |
| HORN Antenna<br>SCHWARZBECK          | BBHA 9120 D        | 9120D-407    | Feb. 03, 2005    |
| HORN Antenna<br>SCHWARZBECK          | BBHA 9170          | BBHA 9170241 | Feb. 23, 2005    |
| Preamplifier<br>Agilent              | 8449B              | 3008A01961   | Jan. 22, 2005    |
| Preamplifier<br>Agilent              | 8447D              | 2944A10629   | Jan. 14, 2005    |
| RF signal cable<br>HUBER+SUHNER      | SUCOFLEX 104       | 218182/4     | Mar. 04, 2005    |
| RF signal cable<br>HUBER+SUHNER      | SUCOFLEX 104       | 218194/4     | Mar. 04, 2005    |
| Software<br>ADT.                     | ADT_Radiated_V5.14 | NA           | NA               |
| Antenna Tower<br>ADT.                | AT100              | AT93021702   | NA               |
| Turn Table<br>ADT.                   | TT100.             | TT93021702   | NA               |
| Controller<br>ADT.                   | SC100.             | SC93021702   | 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 1.
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 IC4924-2.

#### 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 meter 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 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.

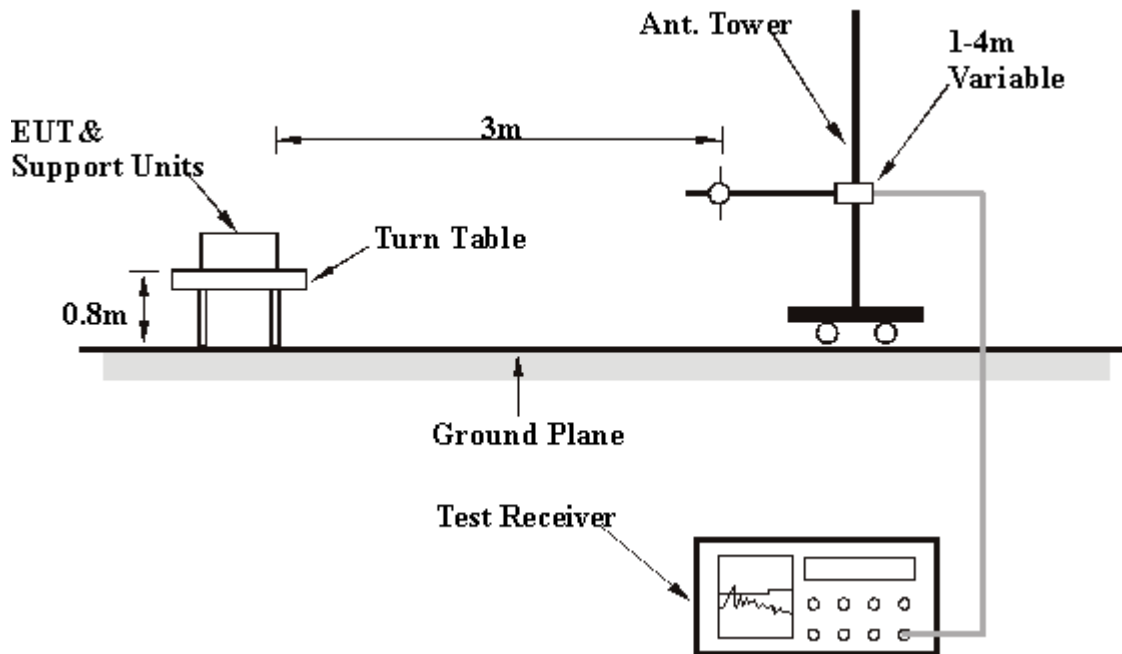
**NOTE:**

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 DEVIATION FROM TEST STANDARD

No deviation

#### 4.2.5 TEST SETUP



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

#### 4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6

## 4.2.7 TEST RESULTS

**Below 1GHz Worst-Case Data with POE (Model): PW130RA4800N02**

|                                 |                                                   |                          |                |
|---------------------------------|---------------------------------------------------|--------------------------|----------------|
| <b>EUT</b>                      | Outdoor 11g 54Mbps<br>Building to Building Bridge | <b>MODEL</b>             | WL-565B        |
| <b>CHANNEL</b>                  | 11                                                | <b>TEST MODE</b>         | 1              |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60Hz                                     | <b>FREQUENCY RANGE</b>   | Below 1000 MHz |
| <b>POE (MODEL)</b>              | PW130RA4800N02                                    | <b>DETECTOR FUNCTION</b> | Quasi-Peak     |
| <b>MODULATION TYPE</b>          | BPSK                                              | <b>TRANSFER RATE</b>     | 6Mbps          |
| <b>ENVIRONMENTAL CONDITIONS</b> | 26 deg. C, 70% RH,<br>991 hPa                     | <b>TESTED BY</b>         | Steven Lu      |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b> |             |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 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                                                              | 149.40      | 36.32 QP                | 43.50          | -7.18       | 1.23 H             | 63                   | 25.23            | 11.09                    |
| 2                                                              | 250.00      | 41.90 QP                | 46.00          | -4.10       | 1.23 H             | 20                   | 28.49            | 13.41                    |
| 3                                                              | 263.98      | 40.16 QP                | 46.00          | -5.84       | 1.08 H             | 0                    | 25.48            | 14.68                    |
| 4                                                              | 375.00      | 37.74 QP                | 46.00          | -8.26       | 1.20 H             | 161                  | 20.65            | 17.09                    |
| 5                                                              | 395.98      | 40.89 QP                | 46.00          | -5.11       | 1.00 H             | 186                  | 23.02            | 17.87                    |
| 6                                                              | 440.00      | 33.05 QP                | 46.00          | -12.95      | 1.00 H             | 333                  | 14.67            | 18.38                    |
| 7                                                              | 475.00      | 38.36 QP                | 46.00          | -7.64       | 1.25 H             | 83                   | 19.27            | 19.09                    |
| 8                                                              | 500.00      | 38.93 QP                | 46.00          | -7.07       | 2.05 H             | 142                  | 19.21            | 19.72                    |
| 9                                                              | 528.98      | 44.98 QP                | 46.00          | -1.02       | 1.73 H             | 186                  | 24.72            | 20.26                    |
| 10                                                             | 660.00      | 43.63 QP                | 46.00          | -2.37       | 1.00 H             | 115                  | 21.50            | 22.13                    |
| 11                                                             | 750.00      | 34.14 QP                | 46.00          | -11.86      | 1.21 H             | 232                  | 10.95            | 23.19                    |
| 12                                                             | 791.98      | 40.61 QP                | 46.00          | -5.39       | 1.78 H             | 180                  | 17.27            | 23.34                    |
| 13                                                             | 875.00      | 34.68 QP                | 46.00          | -11.32      | 1.91 H             | 173                  | 10.64            | 24.04                    |
| 14                                                             | 923.98      | 32.40 QP                | 46.00          | -13.60      | 1.53 H             | 212                  | 7.83             | 24.57                    |

- 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.

|                                 |                                                   |                          |                |
|---------------------------------|---------------------------------------------------|--------------------------|----------------|
| <b>EUT</b>                      | Outdoor 11g 54Mbps<br>Building to Building Bridge | <b>MODEL</b>             | WL-565B        |
| <b>CHANNEL</b>                  | 11                                                | <b>TEST MODE</b>         | 1              |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60Hz                                     | <b>FREQUENCY RANGE</b>   | Below 1000 MHz |
| <b>POE (MODEL)</b>              | PW130RA4800N02                                    | <b>DETECTOR FUNCTION</b> | Quasi-Peak     |
| <b>MODULATION TYPE</b>          | BPSK                                              | <b>TRANSFER RATE</b>     | 6Mbps          |
| <b>ENVIRONMENTAL CONDITIONS</b> | 26 deg. C, 70% RH,<br>991 hPa                     | <b>TESTED BY</b>         | Steven Lu      |

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 149.40         | 37.34 QP                      | 43.50             | -6.16          | 1.54 V                   | 162                        | 26.25                  | 11.09                          |
| 2   | 250.01         | 36.72 QP                      | 46.00             | -9.28          | 1.44 V                   | 150                        | 23.31                  | 13.41                          |
| 3   | 264.01         | 34.32 QP                      | 46.00             | -11.68         | 1.61 V                   | 218                        | 19.64                  | 14.68                          |
| 4   | 375.01         | 32.54 QP                      | 46.00             | -13.46         | 1.62 V                   | 305                        | 15.45                  | 17.09                          |
| 5   | 396.01         | 36.05 QP                      | 46.00             | -9.95          | 1.39 V                   | 201                        | 18.18                  | 17.87                          |
| 6   | 440.01         | 31.54 QP                      | 46.00             | -14.46         | 1.30 V                   | 81                         | 13.16                  | 18.38                          |
| 7   | 475.01         | 37.35 QP                      | 46.00             | -8.65          | 1.66 V                   | 275                        | 18.25                  | 19.10                          |
| 8   | 500.01         | 35.41 QP                      | 46.00             | -10.59         | 1.32 V                   | 233                        | 15.69                  | 19.72                          |
| 9   | 528.01         | 41.97 QP                      | 46.00             | -4.03          | 1.17 V                   | 184                        | 21.72                  | 20.25                          |
| 10  | 625.01         | 40.71 QP                      | 46.00             | -5.29          | 1.57 V                   | 171                        | 18.73                  | 21.98                          |
| 11  | 660.01         | 44.36 QP                      | 46.00             | -1.64          | 1.00 V                   | 178                        | 22.23                  | 22.13                          |
| 12  | 750.01         | 33.56 QP                      | 46.00             | -12.44         | 1.03 V                   | 162                        | 10.37                  | 23.19                          |
| 13  | 792.01         | 33.79 QP                      | 46.00             | -12.21         | 1.10 V                   | 173                        | 10.45                  | 23.34                          |
| 14  | 924.01         | 35.81 QP                      | 46.00             | -10.19         | 1.00 V                   | 332                        | 11.24                  | 24.57                          |

- 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.

|                                     |                                                  |                              |                |
|-------------------------------------|--------------------------------------------------|------------------------------|----------------|
| <b>EUT</b>                          | Indoor 11g 54Mbps<br>Building to Building Bridge | <b>MODEL</b>                 | WL-565         |
| <b>CHANNEL</b>                      | 11                                               | <b>TEST MODE</b>             | 2              |
| <b>INPUT POWER<br/>(SYSTEM)</b>     | 120 Vac, 60Hz                                    | <b>FREQUENCY<br/>RANGE</b>   | Below 1000 MHz |
| <b>POE (MODEL)</b>                  | PW130RA4800N02                                   | <b>DETECTOR<br/>FUNCTION</b> | Quasi-Peak     |
| <b>MODULATION<br/>TYPE</b>          | BPSK                                             | <b>TRANSFER<br/>RATE</b>     | 6Mbps          |
| <b>ENVIRONMENTAL<br/>CONDITIONS</b> | 26 deg. C, 70% RH,<br>991 hPa                    | <b>TESTED BY</b>             | Steven Lu      |

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 149.40         | 36.74 QP                      | 43.50             | -6.76          | 1.23 H                   | 45                         | 25.65                  | 11.09                          |
| 2   | 250.00         | 41.01 QP                      | 46.00             | -4.99          | 1.52 H                   | 63                         | 27.60                  | 13.41                          |
| 3   | 263.98         | 40.86 QP                      | 46.00             | -5.14          | 1.25 H                   | 223                        | 26.18                  | 14.68                          |
| 4   | 375.00         | 36.86 QP                      | 46.00             | -9.14          | 1.25 H                   | 168                        | 19.77                  | 17.09                          |
| 5   | 395.98         | 41.27 QP                      | 46.00             | -4.73          | 1.32 H                   | 165                        | 23.40                  | 17.87                          |
| 6   | 440.00         | 35.32 QP                      | 46.00             | -10.68         | 1.32 H                   | 254                        | 16.94                  | 18.38                          |
| 7   | 475.00         | 35.96 QP                      | 46.00             | -10.04         | 1.25 H                   | 86                         | 16.87                  | 19.09                          |
| 8   | 500.00         | 39.96 QP                      | 46.00             | -6.04          | 2.10 H                   | 220                        | 20.24                  | 19.72                          |
| 9   | 528.98         | 43.68 QP                      | 46.00             | -2.32          | 1.63 H                   | 211                        | 23.42                  | 20.26                          |
| 10  | 660.00         | 44.32 QP                      | 46.00             | -1.68          | 1.23 H                   | 186                        | 22.19                  | 22.13                          |
| 11  | 750.00         | 37.35 QP                      | 46.00             | -8.65          | 1.53 H                   | 222                        | 14.16                  | 23.19                          |
| 12  | 791.98         | 41.32 QP                      | 46.00             | -4.68          | 1.63 H                   | 168                        | 17.98                  | 23.34                          |
| 13  | 875.01         | 36.65 QP                      | 46.00             | -9.35          | 1.96 H                   | 165                        | 12.60                  | 24.05                          |
| 14  | 923.98         | 36.35 QP                      | 46.00             | -9.65          | 1.51 H                   | 320                        | 11.78                  | 24.57                          |

- 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.

|                                     |                                                  |                              |                |
|-------------------------------------|--------------------------------------------------|------------------------------|----------------|
| <b>EUT</b>                          | Indoor 11g 54Mbps<br>Building to Building Bridge | <b>MODEL</b>                 | WL-565         |
| <b>CHANNEL</b>                      | 11                                               | <b>TEST MODE</b>             | 2              |
| <b>INPUT POWER<br/>(SYSTEM)</b>     | 120 Vac, 60Hz                                    | <b>FREQUENCY<br/>RANGE</b>   | Below 1000 MHz |
| <b>POE (MODEL)</b>                  | PW130RA4800N02                                   | <b>DETECTOR<br/>FUNCTION</b> | Quasi-Peak     |
| <b>MODULATION<br/>TYPE</b>          | BPSK                                             | <b>TRANSFER<br/>RATE</b>     | 6Mbps          |
| <b>ENVIRONMENTAL<br/>CONDITIONS</b> | 26 deg. C, 70% RH,<br>991 hPa                    | <b>TESTED BY</b>             | Steven Lu      |

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 149.40         | 36.63 QP                      | 43.50             | -6.87          | 1.63 V                   | 236                        | 25.54                  | 11.09                          |
| 2   | 250.01         | 37.86 QP                      | 46.00             | -8.14          | 1.44 V                   | 320                        | 24.45                  | 13.41                          |
| 3   | 264.01         | 36.35 QP                      | 46.00             | -9.65          | 1.62 V                   | 223                        | 21.67                  | 14.68                          |
| 4   | 375.01         | 35.32 QP                      | 46.00             | -10.68         | 1.63 V                   | 310                        | 18.23                  | 17.09                          |
| 5   | 396.01         | 37.32 QP                      | 46.00             | -8.68          | 1.41 V                   | 214                        | 19.45                  | 17.87                          |
| 6   | 440.01         | 33.63 QP                      | 46.00             | -12.37         | 1.32 V                   | 82                         | 15.25                  | 18.38                          |
| 7   | 475.00         | 36.35 QP                      | 46.00             | -9.65          | 1.52 V                   | 223                        | 17.26                  | 19.09                          |
| 8   | 500.01         | 36.96 QP                      | 46.00             | -9.04          | 1.35 V                   | 234                        | 17.24                  | 19.72                          |
| 9   | 528.01         | 42.32 QP                      | 46.00             | -3.68          | 1.23 V                   | 132                        | 22.07                  | 20.25                          |
| 10  | 625.01         | 41.32 QP                      | 46.00             | -4.68          | 2.10 V                   | 263                        | 19.34                  | 21.98                          |
| 11  | 660.00         | 44.30 QP                      | 46.00             | -1.70          | 1.32 V                   | 196                        | 22.17                  | 22.13                          |
| 12  | 750.00         | 34.32 QP                      | 46.00             | -11.68         | 1.20 V                   | 188                        | 11.13                  | 23.19                          |
| 13  | 792.00         | 34.62 QP                      | 46.00             | -11.38         | 1.20 V                   | 185                        | 11.28                  | 23.34                          |
| 14  | 924.00         | 36.96 QP                      | 46.00             | -9.04          | 1.10 V                   | 296                        | 12.39                  | 24.57                          |

- 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.

|                                     |                                                  |                              |                |
|-------------------------------------|--------------------------------------------------|------------------------------|----------------|
| <b>EUT</b>                          | Indoor 11g 54Mbps<br>Building to Building Bridge | <b>MODEL</b>                 | WL-565         |
| <b>CHANNEL</b>                      | 11                                               | <b>TEST MODE</b>             | 3              |
| <b>INPUT POWER<br/>(SYSTEM)</b>     | 120 Vac, 60Hz                                    | <b>FREQUENCY<br/>RANGE</b>   | Below 1000 MHz |
| <b>POE (MODEL)</b>                  | PW130RA4800N02                                   | <b>DETECTOR<br/>FUNCTION</b> | Quasi-Peak     |
| <b>MODULATION<br/>TYPE</b>          | BPSK                                             | <b>TRANSFER<br/>RATE</b>     | 6Mbps          |
| <b>ENVIRONMENTAL<br/>CONDITIONS</b> | 26 deg. C, 70% RH,<br>991 hPa                    | <b>TESTED BY</b>             | Steven Lu      |

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 149.32         | 36.32 QP                      | 43.50             | -7.18          | 1.10 H                   | 144                        | 25.23                  | 11.09                          |
| 2   | 250.00         | 41.00 QP                      | 46.00             | -5.00          | 1.14 H                   | 124                        | 27.59                  | 13.41                          |
| 3   | 263.98         | 41.32 QP                      | 46.00             | -4.68          | 1.12 H                   | 45                         | 26.64                  | 14.68                          |
| 4   | 375.00         | 36.63 QP                      | 46.00             | -9.37          | 1.23 H                   | 78                         | 19.54                  | 17.09                          |
| 5   | 395.98         | 41.05 QP                      | 46.00             | -4.95          | 1.23 H                   | 196                        | 23.18                  | 17.87                          |
| 6   | 440.01         | 35.35 QP                      | 46.00             | -10.65         | 1.00 H                   | 247                        | 16.97                  | 18.38                          |
| 7   | 475.00         | 39.65 QP                      | 46.00             | -6.35          | 1.14 H                   | 22                         | 20.55                  | 19.09                          |
| 8   | 500.00         | 36.62 QP                      | 46.00             | -9.38          | 1.20 H                   | 146                        | 16.90                  | 19.72                          |
| 9   | 528.98         | 44.32 QP                      | 46.00             | -1.68          | 1.89 H                   | 200                        | 24.06                  | 20.26                          |
| 10  | 660.01         | 43.68 QP                      | 46.00             | -2.32          | 1.69 H                   | 153                        | 21.55                  | 22.13                          |
| 11  | 750.00         | 36.38 QP                      | 46.00             | -9.62          | 1.52 H                   | 238                        | 13.19                  | 23.19                          |
| 12  | 791.98         | 41.35 QP                      | 46.00             | -4.65          | 1.57 H                   | 163                        | 18.01                  | 23.34                          |
| 13  | 875.00         | 35.78 QP                      | 46.00             | -10.22         | 1.63 H                   | 123                        | 11.74                  | 24.04                          |
| 14  | 923.98         | 35.41 QP                      | 46.00             | -10.59         | 1.45 H                   | 169                        | 10.84                  | 24.57                          |

- 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.

|                                     |                                                  |                              |                |
|-------------------------------------|--------------------------------------------------|------------------------------|----------------|
| <b>EUT</b>                          | Indoor 11g 54Mbps<br>Building to Building Bridge | <b>MODEL</b>                 | WL-565         |
| <b>CHANNEL</b>                      | 11                                               | <b>TEST MODE</b>             | 3              |
| <b>INPUT POWER<br/>(SYSTEM)</b>     | 120 Vac, 60Hz                                    | <b>FREQUENCY<br/>RANGE</b>   | Below 1000 MHz |
| <b>POE (MODEL)</b>                  | PW130RA4800N02                                   | <b>DETECTOR<br/>FUNCTION</b> | Quasi-Peak     |
| <b>MODULATION<br/>TYPE</b>          | BPSK                                             | <b>TRANSFER<br/>RATE</b>     | 6Mbps          |
| <b>ENVIRONMENTAL<br/>CONDITIONS</b> | 26 deg. C, 70% RH,<br>991 hPa                    | <b>TESTED BY</b>             | Steven Lu      |

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 149.40         | 36.32 QP                      | 43.50             | -7.18          | 1.42 V                   | 196                        | 25.23                  | 11.09                          |
| 2   | 250.01         | 36.75 QP                      | 46.00             | -9.25          | 1.20 V                   | 125                        | 23.34                  | 13.41                          |
| 3   | 264.01         | 37.21 QP                      | 46.00             | -8.79          | 1.62 V                   | 220                        | 22.53                  | 14.68                          |
| 4   | 375.01         | 33.85 QP                      | 46.00             | -12.15         | 1.42 V                   | 320                        | 16.76                  | 17.09                          |
| 5   | 396.01         | 35.63 QP                      | 46.00             | -10.37         | 1.40 V                   | 225                        | 17.76                  | 17.87                          |
| 6   | 440.01         | 35.47 QP                      | 46.00             | -10.53         | 1.32 V                   | 82                         | 17.09                  | 18.38                          |
| 7   | 475.01         | 38.62 QP                      | 46.00             | -7.38          | 1.45 V                   | 320                        | 19.52                  | 19.10                          |
| 8   | 500.02         | 35.77 QP                      | 46.00             | -10.23         | 1.22 V                   | 241                        | 16.05                  | 19.72                          |
| 9   | 528.01         | 43.32 QP                      | 46.00             | -2.68          | 1.20 V                   | 142                        | 23.07                  | 20.25                          |
| 10  | 625.01         | 41.32 QP                      | 46.00             | -4.68          | 1.57 V                   | 132                        | 19.34                  | 21.98                          |
| 11  | 660.01         | 44.00 QP                      | 46.00             | -2.00          | 1.20 V                   | 163                        | 21.87                  | 22.13                          |
| 12  | 750.01         | 35.32 QP                      | 46.00             | -10.68         | 1.12 V                   | 163                        | 12.13                  | 23.19                          |
| 13  | 792.01         | 35.35 QP                      | 46.00             | -10.65         | 1.10 V                   | 154                        | 12.01                  | 23.34                          |
| 14  | 924.01         | 35.74 QP                      | 46.00             | -10.26         | 1.20 V                   | 27                         | 11.17                  | 24.57                          |

- 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.

|                                     |                                                  |                              |                |
|-------------------------------------|--------------------------------------------------|------------------------------|----------------|
| <b>EUT</b>                          | Indoor 11g 54Mbps<br>Building to Building Bridge | <b>MODEL</b>                 | WL-565         |
| <b>CHANNEL</b>                      | 11                                               | <b>TEST MODE</b>             | 4              |
| <b>INPUT POWER<br/>(SYSTEM)</b>     | 120 Vac, 60Hz                                    | <b>FREQUENCY<br/>RANGE</b>   | Below 1000 MHz |
| <b>POE (MODEL)</b>                  | PW130RA4800N02                                   | <b>DETECTOR<br/>FUNCTION</b> | Quasi-Peak     |
| <b>MODULATION<br/>TYPE</b>          | BPSK                                             | <b>TRANSFER<br/>RATE</b>     | 6Mbps          |
| <b>ENVIRONMENTAL<br/>CONDITIONS</b> | 26 deg. C, 70% RH,<br>991 hPa                    | <b>TESTED BY</b>             | Steven Lu      |

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 149.40         | 37.32 QP                      | 43.50             | -6.18          | 1.23 H                   | 67                         | 26.23                  | 11.09                          |
| 2   | 250.00         | 42.32 QP                      | 46.00             | -3.68          | 1.32 H                   | 23                         | 28.91                  | 13.41                          |
| 3   | 263.98         | 42.22 QP                      | 46.00             | -3.78          | 1.10 H                   | 43                         | 27.55                  | 14.68                          |
| 4   | 375.00         | 37.25 QP                      | 46.00             | -8.75          | 1.52 H                   | 263                        | 20.16                  | 17.09                          |
| 5   | 396.00         | 41.32 QP                      | 46.00             | -4.68          | 1.00 H                   | 192                        | 23.45                  | 17.87                          |
| 6   | 440.00         | 34.52 QP                      | 46.00             | -11.48         | 1.23 H                   | 320                        | 16.14                  | 18.38                          |
| 7   | 475.00         | 37.62 QP                      | 46.00             | -8.38          | 1.32 H                   | 296                        | 18.52                  | 19.09                          |
| 8   | 500.00         | 39.67 QP                      | 46.00             | -6.33          | 2.00 H                   | 142                        | 19.95                  | 19.72                          |
| 9   | 528.98         | 45.00 QP                      | 46.00             | -1.00          | 1.85 H                   | 210                        | 24.74                  | 20.26                          |
| 10  | 660.00         | 44.32 QP                      | 46.00             | -1.68          | 1.25 H                   | 168                        | 22.19                  | 22.13                          |
| 11  | 750.00         | 35.32 QP                      | 46.00             | -10.68         | 1.22 H                   | 314                        | 12.13                  | 23.19                          |
| 12  | 791.98         | 41.32 QP                      | 46.00             | -4.68          | 1.85 H                   | 213                        | 17.98                  | 23.34                          |
| 13  | 875.00         | 35.62 QP                      | 46.00             | -10.38         | 1.99 H                   | 162                        | 11.58                  | 24.04                          |
| 14  | 924.00         | 33.68 QP                      | 46.00             | -12.32         | 1.62 H                   | 196                        | 9.11                   | 24.57                          |

- 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.

|                                 |                                                  |                          |                |
|---------------------------------|--------------------------------------------------|--------------------------|----------------|
| <b>EUT</b>                      | Indoor 11g 54Mbps<br>Building to Building Bridge | <b>MODEL</b>             | WL-565         |
| <b>CHANNEL</b>                  | 11                                               | <b>TEST MODE</b>         | 4              |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60Hz                                    | <b>FREQUENCY RANGE</b>   | Below 1000 MHz |
| <b>POE (MODEL)</b>              | PW130RA4800N02                                   | <b>DETECTOR FUNCTION</b> | Quasi-Peak     |
| <b>MODULATION TYPE</b>          | BPSK                                             | <b>TRANSFER RATE</b>     | 6Mbps          |
| <b>ENVIRONMENTAL CONDITIONS</b> | 26 deg. C, 70% RH,<br>991 hPa                    | <b>TESTED BY</b>         | Steven Lu      |

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 149.40         | 36.32 QP                      | 43.50             | -7.18          | 1.63 V                   | 268                        | 25.23                  | 11.09                          |
| 2   | 250.02         | 37.32 QP                      | 46.00             | -8.68          | 1.44 V                   | 153                        | 23.91                  | 13.41                          |
| 3   | 264.01         | 35.63 QP                      | 46.00             | -10.37         | 1.62 V                   | 241                        | 20.95                  | 14.68                          |
| 4   | 375.01         | 33.32 QP                      | 46.00             | -12.68         | 1.63 V                   | 201                        | 16.23                  | 17.09                          |
| 5   | 396.01         | 36.52 QP                      | 46.00             | -9.48          | 1.40 V                   | 246                        | 18.65                  | 17.87                          |
| 6   | 440.01         | 32.32 QP                      | 46.00             | -13.68         | 1.30 V                   | 74                         | 13.94                  | 18.38                          |
| 7   | 475.00         | 36.21 QP                      | 46.00             | -9.79          | 1.44 V                   | 125                        | 17.12                  | 19.09                          |
| 8   | 500.00         | 36.65 QP                      | 46.00             | -9.35          | 1.32 V                   | 241                        | 16.93                  | 19.72                          |
| 9   | 528.01         | 42.31 QP                      | 46.00             | -3.69          | 1.20 V                   | 132                        | 22.06                  | 20.25                          |
| 10  | 625.01         | 41.32 QP                      | 46.00             | -4.68          | 1.63 V                   | 123                        | 19.34                  | 21.98                          |
| 11  | 660.01         | 44.78 QP                      | 46.00             | -1.22          | 1.00 V                   | 322                        | 22.65                  | 22.13                          |
| 12  | 750.01         | 36.32 QP                      | 46.00             | -9.68          | 1.06 V                   | 167                        | 13.13                  | 23.19                          |
| 13  | 792.01         | 35.32 QP                      | 46.00             | -10.68         | 1.10 V                   | 185                        | 11.98                  | 23.34                          |
| 14  | 924.01         | 36.62 QP                      | 46.00             | -9.38          | 1.23 V                   | 196                        | 12.05                  | 24.57                          |

- 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.

**Below 1GHz Worst-Case Data with POE (Model): 61-0107-000**

|                                 |                                                   |                          |                |
|---------------------------------|---------------------------------------------------|--------------------------|----------------|
| <b>EUT</b>                      | Outdoor 11g 54Mbps<br>Building to Building Bridge | <b>MODEL</b>             | WL-565B        |
| <b>CHANNEL</b>                  | 11                                                | <b>TEST MODE</b>         | 1              |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60Hz                                     | <b>FREQUENCY RANGE</b>   | Below 1000 MHz |
| <b>POE (MODEL)</b>              | 61-0107-000                                       | <b>DETECTOR FUNCTION</b> | Quasi-Peak     |
| <b>MODULATION TYPE</b>          | BPSK                                              | <b>TRANSFER RATE</b>     | 6Mbps          |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 70% RH,<br>991 hPa                     | <b>TESTED BY</b>         | Martin Lee     |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b> |             |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 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                                                              | 132.00      | 29.17 QP                | 43.50          | -14.33      | 1.94 H             | 179                  | 17.76            | 11.41                    |
| 2                                                              | 240.00      | 36.42 QP                | 46.00          | -9.58       | 1.47 H             | 9                    | 25.41            | 11.01                    |
| 3                                                              | 264.00      | 41.93 QP                | 46.00          | -4.07       | 1.20 H             | 111                  | 29.10            | 12.83                    |
| 4                                                              | 297.00      | 26.65 QP                | 46.00          | -19.35      | 1.40 H             | 315                  | 13.17            | 13.48                    |
| 5                                                              | 330.00      | 32.95 QP                | 46.00          | -13.05      | 1.00 H             | 249                  | 19.02            | 13.93                    |
| 6                                                              | 396.00      | 43.55 QP                | 46.00          | -2.45       | 1.00 H             | 8                    | 27.65            | 15.90                    |
| 7                                                              | 480.00      | 38.56 QP                | 46.00          | -7.44       | 1.32 H             | 98                   | 21.45            | 17.11                    |
| 8                                                              | 527.99      | 42.86 QP                | 46.00          | -3.14       | 1.01 H             | 109                  | 24.43            | 18.43                    |
| 9                                                              | 600.00      | 22.34 QP                | 46.00          | -23.66      | 2.03 H             | 38                   | 3.11             | 19.23                    |
| 10                                                             | 660.00      | 32.12 QP                | 46.00          | -13.88      | 1.29 H             | 157                  | 12.80            | 19.32                    |
| 11                                                             | 720.00      | 32.62 QP                | 46.00          | -13.38      | 1.44 H             | 307                  | 13.13            | 19.49                    |
| 12                                                             | 792.00      | 33.13 QP                | 46.00          | -12.87      | 1.25 H             | 4                    | 12.98            | 20.15                    |

**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.



|                                 |                                                   |                          |                |
|---------------------------------|---------------------------------------------------|--------------------------|----------------|
| <b>EUT</b>                      | Outdoor 11g 54Mbps<br>Building to Building Bridge | <b>MODEL</b>             | WL-565B        |
| <b>CHANNEL</b>                  | 11                                                | <b>TEST MODE</b>         | 1              |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60Hz                                     | <b>FREQUENCY RANGE</b>   | Below 1000 MHz |
| <b>POE (MODEL)</b>              | 61-0107-000                                       | <b>DETECTOR FUNCTION</b> | Quasi-Peak     |
| <b>MODULATION TYPE</b>          | BPSK                                              | <b>TRANSFER RATE</b>     | 6Mbps          |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 70% RH,<br>991 hPa                     | <b>TESTED BY</b>         | Martin Lee     |

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 131.98         | 28.38 QP                      | 43.50             | -15.12         | 1.00 V                   | 259                        | 16.97                  | 11.41                          |
| 2   | 239.98         | 34.27 QP                      | 46.00             | -11.73         | 1.20 V                   | 47                         | 23.26                  | 11.01                          |
| 3   | 264.04         | 37.28 QP                      | 46.00             | -8.72          | 1.42 V                   | 161                        | 24.45                  | 12.83                          |
| 4   | 297.00         | 26.67 QP                      | 46.00             | -19.33         | 1.40 V                   | 327                        | 13.19                  | 13.48                          |
| 5   | 329.98         | 37.06 QP                      | 46.00             | -8.94          | 1.37 V                   | 220                        | 23.13                  | 13.93                          |
| 6   | 396.00         | 37.78 QP                      | 46.00             | -8.22          | 1.45 V                   | 34                         | 21.88                  | 15.90                          |
| 7   | 479.99         | 35.35 QP                      | 46.00             | -10.65         | 1.10 V                   | 214                        | 18.24                  | 17.11                          |
| 8   | 528.00         | 41.77 QP                      | 46.00             | -4.23          | 1.42 V                   | 179                        | 23.34                  | 18.43                          |
| 9   | 599.98         | 23.20 QP                      | 46.00             | -22.80         | 1.27 V                   | 214                        | 3.97                   | 19.23                          |
| 10  | 659.98         | 34.80 QP                      | 46.00             | -11.20         | 1.00 V                   | 39                         | 15.48                  | 19.32                          |
| 11  | 719.98         | 30.77 QP                      | 46.00             | -15.23         | 1.21 V                   | 21                         | 11.28                  | 19.49                          |
| 12  | 792.00         | 33.25 QP                      | 46.00             | -12.75         | 1.09 V                   | 243                        | 13.10                  | 20.15                          |

#### 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.

|                                 |                                                  |                          |                |
|---------------------------------|--------------------------------------------------|--------------------------|----------------|
| <b>EUT</b>                      | Indoor 11g 54Mbps<br>Building to Building Bridge | <b>MODEL</b>             | WL-565         |
| <b>CHANNEL</b>                  | 11                                               | <b>TEST MODE</b>         | 2              |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60Hz                                    | <b>FREQUENCY RANGE</b>   | Below 1000 MHz |
| <b>POE (MODEL)</b>              | 61-0107-000                                      | <b>DETECTOR FUNCTION</b> | Quasi-Peak     |
| <b>MODULATION TYPE</b>          | BPSK                                             | <b>TRANSFER RATE</b>     | 6Mbps          |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 70% RH,<br>991 hPa                    | <b>TESTED BY</b>         | Martin Lee     |

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 132.00         | 26.01 QP                      | 43.50             | -17.49         | 1.56 H                   | 170                        | 14.60                  | 11.41                          |
| 2   | 240.00         | 34.52 QP                      | 46.00             | -11.48         | 1.43 H                   | 92                         | 23.51                  | 11.01                          |
| 3   | 264.00         | 38.04 QP                      | 46.00             | -7.96          | 1.16 H                   | 334                        | 25.21                  | 12.83                          |
| 4   | 297.00         | 29.88 QP                      | 46.00             | -16.12         | 1.00 H                   | 161                        | 16.40                  | 13.48                          |
| 5   | 330.00         | 39.00 QP                      | 46.00             | -7.00          | 1.23 H                   | 195                        | 25.07                  | 13.93                          |
| 6   | 396.00         | 41.11 QP                      | 46.00             | -4.89          | 1.01 H                   | 38                         | 25.21                  | 15.90                          |
| 7   | 480.00         | 35.98 QP                      | 46.00             | -10.02         | 1.40 H                   | 175                        | 18.87                  | 17.11                          |
| 8   | 528.00         | 41.05 QP                      | 46.00             | -4.95          | 1.96 H                   | 358                        | 22.62                  | 18.43                          |
| 9   | 599.98         | 26.82 QP                      | 46.00             | -19.18         | 2.32 H                   | 41                         | 7.59                   | 19.23                          |
| 10  | 660.00         | 31.13 QP                      | 46.00             | -14.87         | 1.32 H                   | 217                        | 11.81                  | 19.32                          |
| 11  | 719.99         | 33.41 QP                      | 46.00             | -12.59         | 1.53 H                   | 335                        | 13.92                  | 19.49                          |
| 12  | 792.00         | 34.77 QP                      | 46.00             | -11.23         | 1.46 H                   | 327                        | 14.62                  | 20.15                          |

- 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.

|                                 |                                                  |                          |                |
|---------------------------------|--------------------------------------------------|--------------------------|----------------|
| <b>EUT</b>                      | Indoor 11g 54Mbps<br>Building to Building Bridge | <b>MODEL</b>             | WL-565         |
| <b>CHANNEL</b>                  | 11                                               | <b>TEST MODE</b>         | 2              |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60Hz                                    | <b>FREQUENCY RANGE</b>   | Below 1000 MHz |
| <b>POE (MODEL)</b>              | 61-0107-000                                      | <b>DETECTOR FUNCTION</b> | Quasi-Peak     |
| <b>MODULATION TYPE</b>          | BPSK                                             | <b>TRANSFER RATE</b>     | 6Mbps          |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 70% RH,<br>991 hPa                    | <b>TESTED BY</b>         | Martin Lee     |

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 131.98         | 29.30 QP                      | 43.50             | -14.20         | 1.26 V                   | 27                         | 17.89                  | 11.41                          |
| 2   | 239.98         | 32.71 QP                      | 46.00             | -13.29         | 1.61 V                   | 226                        | 21.70                  | 11.01                          |
| 3   | 263.98         | 37.62 QP                      | 46.00             | -8.38          | 1.01 V                   | 218                        | 24.79                  | 12.83                          |
| 4   | 296.98         | 23.32 QP                      | 46.00             | -22.68         | 1.64 V                   | 323                        | 9.84                   | 13.48                          |
| 5   | 329.98         | 31.07 QP                      | 46.00             | -14.93         | 1.12 V                   | 1                          | 17.14                  | 13.93                          |
| 6   | 396.00         | 42.41 QP                      | 46.00             | -3.59          | 1.20 V                   | 21                         | 26.51                  | 15.90                          |
| 7   | 479.98         | 33.74 QP                      | 46.00             | -12.26         | 1.52 V                   | 160                        | 16.63                  | 17.11                          |
| 8   | 528.01         | 42.90 QP                      | 46.00             | -3.10          | 1.20 V                   | 202                        | 24.47                  | 18.43                          |
| 9   | 599.98         | 25.26 QP                      | 46.00             | -20.74         | 1.34 V                   | 342                        | 6.03                   | 19.23                          |
| 10  | 659.98         | 36.97 QP                      | 46.00             | -9.03          | 1.00 V                   | 291                        | 17.65                  | 19.32                          |
| 11  | 720.00         | 31.08 QP                      | 46.00             | -14.92         | 1.57 V                   | 16                         | 11.59                  | 19.49                          |
| 12  | 792.01         | 30.77 QP                      | 46.00             | -15.23         | 1.19 V                   | 216                        | 10.62                  | 20.15                          |

#### 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.

|                                 |                                                  |                          |                |
|---------------------------------|--------------------------------------------------|--------------------------|----------------|
| <b>EUT</b>                      | Indoor 11g 54Mbps<br>Building to Building Bridge | <b>MODEL</b>             | WL-565         |
| <b>CHANNEL</b>                  | 11                                               | <b>TEST MODE</b>         | 3              |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60Hz                                    | <b>FREQUENCY RANGE</b>   | Below 1000 MHz |
| <b>POE (MODEL)</b>              | 61-0107-000                                      | <b>DETECTOR FUNCTION</b> | Quasi-Peak     |
| <b>MODULATION TYPE</b>          | BPSK                                             | <b>TRANSFER RATE</b>     | 6Mbps          |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 70% RH,<br>991 hPa                    | <b>TESTED BY</b>         | Martin Lee     |

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 132.00         | 32.23 QP                      | 43.50             | -11.27         | 1.45 H                   | 313                        | 20.82                  | 11.41                          |
| 2   | 240.00         | 37.02 QP                      | 46.00             | -8.98          | 1.09 H                   | 138                        | 26.01                  | 11.01                          |
| 3   | 264.00         | 42.16 QP                      | 46.00             | -3.84          | 1.36 H                   | 257                        | 29.33                  | 12.83                          |
| 4   | 297.00         | 27.18 QP                      | 46.00             | -18.82         | 1.48 H                   | 321                        | 13.70                  | 13.48                          |
| 5   | 330.00         | 37.13 QP                      | 46.00             | -8.87          | 1.26 H                   | 270                        | 23.20                  | 13.93                          |
| 6   | 396.00         | 41.73 QP                      | 46.00             | -4.27          | 1.00 H                   | 160                        | 25.83                  | 15.90                          |
| 7   | 480.00         | 35.33 QP                      | 46.00             | -10.67         | 1.49 H                   | 208                        | 18.22                  | 17.11                          |
| 8   | 528.00         | 38.93 QP                      | 46.00             | -7.07          | 1.34 H                   | 220                        | 20.50                  | 18.43                          |
| 9   | 599.97         | 26.21 QP                      | 46.00             | -19.79         | 1.56 H                   | 44                         | 6.98                   | 19.23                          |
| 10  | 660.00         | 32.28 QP                      | 46.00             | -13.72         | 1.43 H                   | 201                        | 12.96                  | 19.32                          |
| 11  | 720.00         | 33.44 QP                      | 46.00             | -12.56         | 1.37 H                   | 87                         | 13.95                  | 19.49                          |
| 12  | 792.00         | 32.46 QP                      | 46.00             | -13.54         | 1.41 H                   | 349                        | 12.31                  | 20.15                          |

- 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.



|                                 |                                                  |                          |                |
|---------------------------------|--------------------------------------------------|--------------------------|----------------|
| <b>EUT</b>                      | Indoor 11g 54Mbps<br>Building to Building Bridge | <b>MODEL</b>             | WL-565         |
| <b>CHANNEL</b>                  | 11                                               | <b>TEST MODE</b>         | 3              |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60Hz                                    | <b>FREQUENCY RANGE</b>   | Below 1000 MHz |
| <b>POE (MODEL)</b>              | 61-0107-000                                      | <b>DETECTOR FUNCTION</b> | Quasi-Peak     |
| <b>MODULATION TYPE</b>          | BPSK                                             | <b>TRANSFER RATE</b>     | 6Mbps          |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 70% RH,<br>991 hPa                    | <b>TESTED BY</b>         | Martin Lee     |

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 132.00         | 30.20 QP                      | 43.50             | -13.30         | 1.73 V                   | 111                        | 18.79                  | 11.41                          |
| 2   | 240.00         | 35.57 QP                      | 46.00             | -10.43         | 1.00 V                   | 210                        | 24.56                  | 11.01                          |
| 3   | 264.00         | 35.86 QP                      | 46.00             | -10.14         | 1.46 V                   | 8                          | 23.03                  | 12.83                          |
| 4   | 297.00         | 27.13 QP                      | 46.00             | -18.87         | 1.43 V                   | 21                         | 13.65                  | 13.48                          |
| 5   | 330.00         | 31.17 QP                      | 46.00             | -14.83         | 1.79 V                   | 62                         | 17.24                  | 13.93                          |
| 6   | 396.00         | 38.12 QP                      | 46.00             | -7.88          | 2.04 V                   | 320                        | 22.22                  | 15.90                          |
| 7   | 480.00         | 35.35 QP                      | 46.00             | -10.65         | 1.22 V                   | 1                          | 18.24                  | 17.11                          |
| 8   | 528.00         | 42.24 QP                      | 46.00             | -3.76          | 1.22 V                   | 21                         | 23.81                  | 18.43                          |
| 9   | 600.00         | 25.43 QP                      | 46.00             | -20.57         | 2.32 V                   | 32                         | 6.20                   | 19.23                          |
| 10  | 660.00         | 31.82 QP                      | 46.00             | -14.18         | 1.96 V                   | 118                        | 12.50                  | 19.32                          |
| 11  | 720.00         | 30.28 QP                      | 46.00             | -15.72         | 1.08 V                   | 25                         | 10.79                  | 19.49                          |
| 12  | 792.00         | 33.50 QP                      | 46.00             | -12.50         | 1.32 V                   | 205                        | 13.35                  | 20.15                          |

#### 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.

|                                 |                                                  |                          |                |
|---------------------------------|--------------------------------------------------|--------------------------|----------------|
| <b>EUT</b>                      | Indoor 11g 54Mbps<br>Building to Building Bridge | <b>MODEL</b>             | WL-565         |
| <b>CHANNEL</b>                  | 11                                               | <b>TEST MODE</b>         | 4              |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60Hz                                    | <b>FREQUENCY RANGE</b>   | Below 1000 MHz |
| <b>POE (MODEL)</b>              | 61-0107-000                                      | <b>DETECTOR FUNCTION</b> | Quasi-Peak     |
| <b>MODULATION TYPE</b>          | BPSK                                             | <b>TRANSFER RATE</b>     | 6Mbps          |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 70% RH,<br>991 hPa                    | <b>TESTED BY</b>         | Martin Lee     |

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 131.93         | 26.20 QP                      | 43.50             | -17.30         | 1.36 H                   | 205                        | 14.79                  | 11.41                          |
| 2   | 239.99         | 30.39 QP                      | 46.00             | -15.61         | 1.46 H                   | 70                         | 19.38                  | 11.01                          |
| 3   | 264.00         | 30.89 QP                      | 46.00             | -15.11         | 1.55 H                   | 39                         | 18.06                  | 12.83                          |
| 4   | 297.00         | 24.28 QP                      | 46.00             | -21.72         | 2.30 H                   | 212                        | 10.80                  | 13.48                          |
| 5   | 330.00         | 29.28 QP                      | 46.00             | -16.72         | 1.04 H                   | 51                         | 15.35                  | 13.93                          |
| 6   | 396.01         | 37.94 QP                      | 46.00             | -8.06          | 1.00 H                   | 44                         | 22.04                  | 15.90                          |
| 7   | 480.00         | 36.27 QP                      | 46.00             | -9.73          | 1.16 H                   | 57                         | 19.16                  | 17.11                          |
| 8   | 528.00         | 38.49 QP                      | 46.00             | -7.51          | 1.61 H                   | 33                         | 20.06                  | 18.43                          |
| 9   | 599.99         | 27.50 QP                      | 46.00             | -18.50         | 1.46 H                   | 133                        | 8.27                   | 19.23                          |
| 10  | 660.00         | 42.13 QP                      | 46.00             | -3.87          | 1.26 H                   | 333                        | 22.81                  | 19.32                          |
| 11  | 720.00         | 28.81 QP                      | 46.00             | -17.19         | 1.00 H                   | 72                         | 9.32                   | 19.49                          |
| 12  | 792.00         | 39.75 QP                      | 46.00             | -6.25          | 2.23 H                   | 308                        | 19.60                  | 20.15                          |

- 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.

|                                 |                                                  |                          |                |
|---------------------------------|--------------------------------------------------|--------------------------|----------------|
| <b>EUT</b>                      | Indoor 11g 54Mbps<br>Building to Building Bridge | <b>MODEL</b>             | WL-565         |
| <b>CHANNEL</b>                  | 11                                               | <b>TEST MODE</b>         | 4              |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60Hz                                    | <b>FREQUENCY RANGE</b>   | Below 1000 MHz |
| <b>POE (MODEL)</b>              | 61-0107-000                                      | <b>DETECTOR FUNCTION</b> | Quasi-Peak     |
| <b>MODULATION TYPE</b>          | BPSK                                             | <b>TRANSFER RATE</b>     | 6Mbps          |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 70% RH,<br>991 hPa                    | <b>TESTED BY</b>         | Martin Lee     |

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 131.85         | 37.13 QP                      | 43.50             | -6.37          | 1.24 V                   | 1                          | 25.71                  | 11.42                          |
| 2   | 240.00         | 31.75 QP                      | 46.00             | -14.25         | 1.64 V                   | 78                         | 20.74                  | 11.01                          |
| 3   | 264.00         | 20.49 QP                      | 46.00             | -25.51         | 1.00 V                   | 334                        | 7.66                   | 12.83                          |
| 4   | 297.00         | 21.14 QP                      | 46.00             | -24.86         | 1.20 V                   | 1                          | 7.66                   | 13.48                          |
| 5   | 330.00         | 23.55 QP                      | 46.00             | -22.45         | 1.07 V                   | 0                          | 9.62                   | 13.93                          |
| 6   | 396.00         | 26.62 QP                      | 46.00             | -19.38         | 1.98 V                   | 311                        | 10.72                  | 15.90                          |
| 7   | 480.00         | 37.79 QP                      | 46.00             | -8.21          | 1.54 V                   | 28                         | 20.68                  | 17.11                          |
| 8   | 528.00         | 33.18 QP                      | 46.00             | -12.82         | 1.00 V                   | 6                          | 14.75                  | 18.43                          |
| 9   | 600.00         | 26.18 QP                      | 46.00             | -19.82         | 1.37 V                   | 265                        | 6.95                   | 19.23                          |
| 10  | 660.00         | 42.43 QP                      | 46.00             | -3.57          | 1.61 V                   | 14                         | 23.11                  | 19.32                          |
| 11  | 720.00         | 32.35 QP                      | 46.00             | -13.65         | 1.72 V                   | 345                        | 12.86                  | 19.49                          |
| 12  | 792.00         | 42.10 QP                      | 46.00             | -3.90          | 1.00 V                   | 12                         | 21.95                  | 20.15                          |

#### 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 with POE (Model): PW130RA4800N02**

|                                     |                                                      |                              |                           |
|-------------------------------------|------------------------------------------------------|------------------------------|---------------------------|
| <b>EUT</b>                          | Outdoor 11g 54Mbps<br>Building to Building<br>Bridge | <b>MODEL</b>                 | WL-565B                   |
| <b>CHANNEL</b>                      | 1                                                    | <b>TEST MODE</b>             | 1                         |
| <b>INPUT POWER<br/>(SYSTEM)</b>     | 120 Vac, 60 Hz                                       | <b>FREQUENCY<br/>RANGE</b>   | 1~25 GHz                  |
| <b>MODULATION TYPE</b>              | CCK                                                  | <b>TRANSFER<br/>RATE</b>     | 11Mbps                    |
| <b>ENVIRONMENTAL<br/>CONDITIONS</b> | 25 deg. C, 58% RH,<br>991 hPa                        | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)<br>Average (AV) |
| <b>TESTED BY</b>                    | Match Tsui                                           |                              |                           |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b> |                |                               |                   |                |                          |                            |                        |                                |
|----------------------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No.                                                            | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                              | 2375.00        | 40.11 PK                      | 74.00             | -33.89         | 1.00 H                   | 306                        | 8.36                   | 31.75                          |
| 2                                                              | *2412.00       | 98.35 PK                      |                   |                | 1.00 H                   | 306                        | 66.48                  | 31.87                          |
| 2                                                              | *2412.00       | 90.45 AV                      |                   |                | 1.00 H                   | 306                        | 58.58                  | 31.87                          |
| 3                                                              | 4824.00        | 57.40 PK                      | 74.00             | -16.60         | 1.28 H                   | 106                        | 19.29                  | 38.11                          |
| <b>3</b>                                                       | <b>4824.00</b> | <b>53.05 AV</b>               | <b>54.00</b>      | <b>-0.95</b>   | <b>1.28 H</b>            | <b>106</b>                 | <b>14.94</b>           | <b>38.11</b>                   |
| 4                                                              | 9648.00        | 56.92 PK                      | 74.00             | -17.08         | 1.42 H                   | 153                        | 14.64                  | 42.28                          |
| 4                                                              | 9648.00        | 51.13 AV                      | 54.00             | -2.87          | 1.42 H                   | 153                        | 8.85                   | 42.28                          |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b> |                |                               |                   |                |                          |                            |                        |                                |
|--------------------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No.                                                          | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                            | 2375.00        | 59.87 PK                      | 74.00             | -14.13         | 1.14 V                   | 342                        | 28.12                  | 31.75                          |
| 1                                                            | 2375.00        | 52.06 AV                      | 54.00             | -1.94          | 1.14 V                   | 342                        | 20.31                  | 31.75                          |
| 2                                                            | *2412.00       | 118.11 PK                     |                   |                | 1.14 V                   | 342                        | 86.24                  | 31.87                          |
| 2                                                            | *2412.00       | 110.30 AV                     |                   |                | 1.14 V                   | 342                        | 78.43                  | 31.87                          |
| 3                                                            | 2500.00        | 59.25 PK                      | 74.00             | -14.75         | 1.06 V                   | 342                        | 27.11                  | 32.14                          |
| 3                                                            | 2500.00        | 47.57 AV                      | 54.00             | -6.43          | 1.06 V                   | 342                        | 15.43                  | 32.14                          |
| 4                                                            | 4824.00        | 56.26 PK                      | 74.00             | -17.74         | 1.24 V                   | 128                        | 18.15                  | 38.11                          |
| 4                                                            | 4824.00        | 52.82 AV                      | 54.00             | -1.18          | 1.24 V                   | 128                        | 14.71                  | 38.11                          |
| 5                                                            | 9648.00        | 56.54 PK                      | 74.00             | -17.46         | 1.09 V                   | 190                        | 14.26                  | 42.28                          |
| 5                                                            | 9648.00        | 50.92 AV                      | 54.00             | -3.08          | 1.09 V                   | 190                        | 8.64                   | 42.28                          |

- 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.

|                                     |                                                      |                              |                           |
|-------------------------------------|------------------------------------------------------|------------------------------|---------------------------|
| <b>EUT</b>                          | Outdoor 11g 54Mbps<br>Building to Building<br>Bridge | <b>MODEL</b>                 | WL-565B                   |
| <b>CHANNEL</b>                      | 6                                                    | <b>TEST MODE</b>             | 1                         |
| <b>INPUT POWER<br/>(SYSTEM)</b>     | 120 Vac, 60 Hz                                       | <b>FREQUENCY<br/>RANGE</b>   | 1~25 GHz                  |
| <b>MODULATION TYPE</b>              | CCK                                                  | <b>TRANSFER<br/>RATE</b>     | 11Mbps                    |
| <b>ENVIRONMENTAL<br/>CONDITIONS</b> | 25 deg. C, 58% RH,<br>991 hPa                        | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)<br>Average (AV) |
| <b>TESTED BY</b>                    | Match Tsui                                           |                              |                           |

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *2437.00       | 104.31 PK                     |                   |                | 1.00 H                   | 302                        | 72.36                  | 31.95                          |
| 1   | *2437.00       | 96.76 AV                      |                   |                | 1.00 H                   | 302                        | 64.81                  | 31.95                          |
| 2   | 4874.00        | 57.35 PK                      | 74.00             | -16.65         | 1.49 H                   | 207                        | 19.07                  | 38.28                          |
| 2   | 4874.00        | 52.86 AV                      | 54.00             | -1.14          | 1.49 H                   | 207                        | 14.58                  | 38.28                          |
| 3   | 9748.00        | 52.00 PK                      | 74.00             | -22.00         | 1.27 H                   | 156                        | 13.49                  | 38.51                          |
| 3   | 9748.00        | 44.88 AV                      | 54.00             | -9.12          | 1.27 H                   | 156                        | 6.37                   | 38.51                          |

#### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 2376.00        | 61.57 PK                      | 74.00             | -12.43         | 1.16 V                   | 340                        | 29.81                  | 31.76                          |
| 1   | 2376.00        | 50.19 AV                      | 54.00             | -3.81          | 1.16 V                   | 340                        | 18.43                  | 31.76                          |
| 2   | *2437.00       | 124.36 PK                     |                   |                | 1.16 V                   | 341                        | 92.41                  | 31.95                          |
| 2   | *2437.00       | 116.56 AV                     |                   |                | 1.16 V                   | 341                        | 84.61                  | 31.95                          |
| 3   | 2500.00        | 60.15 PK                      | 74.00             | -13.85         | 1.16 V                   | 340                        | 28.01                  | 32.14                          |
| 3   | 2500.00        | 49.07 AV                      | 54.00             | -4.93          | 1.16 V                   | 340                        | 16.93                  | 32.14                          |
| 4   | 4874.00        | 55.77 PK                      | 74.00             | -18.23         | 1.27 V                   | 198                        | 17.49                  | 38.28                          |
| 4   | 4874.00        | 49.96 AV                      | 54.00             | -4.04          | 1.27 V                   | 198                        | 11.68                  | 38.28                          |
| 5   | 9748.00        | 52.79 PK                      | 74.00             | -21.21         | 1.07 V                   | 189                        | 14.28                  | 38.51                          |
| 5   | 9748.00        | 46.68 AV                      | 54.00             | -7.32          | 1.07 V                   | 189                        | 8.17                   | 38.51                          |

- 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.

|                                     |                                                      |                              |                           |
|-------------------------------------|------------------------------------------------------|------------------------------|---------------------------|
| <b>EUT</b>                          | Outdoor 11g 54Mbps<br>Building to Building<br>Bridge | <b>MODEL</b>                 | WL-565B                   |
| <b>CHANNEL</b>                      | 11                                                   | <b>TEST MODE</b>             | 1                         |
| <b>INPUT POWER<br/>(SYSTEM)</b>     | 120 Vac, 60 Hz                                       | <b>FREQUENCY<br/>RANGE</b>   | 1~25 GHz                  |
| <b>MODULATION TYPE</b>              | CCK                                                  | <b>TRANSFER<br/>RATE</b>     | 11Mbps                    |
| <b>ENVIRONMENTAL<br/>CONDITIONS</b> | 25 deg. C, 58% RH,<br>991 hPa                        | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)<br>Average (AV) |
| <b>TESTED BY</b>                    | Match Tsui                                           |                              |                           |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | *2462.00       | 96.92 PK                      |                   |                | 1.16 H                   | 310                        | 64.90                  | 32.02                          |
| 1   | *2462.00       | 89.06 AV                      |                   |                | 1.16 H                   | 310                        | 57.04                  | 32.02                          |
| 2   | 2500.00        | 39.30 PK                      | 74.00             | -34.70         | 1.16 H                   | 310                        | 7.16                   | 32.14                          |
| 3   | 4924.00        | 57.10 PK                      | 74.00             | -16.90         | 1.24 H                   | 133                        | 18.61                  | 38.49                          |
| 3   | 4924.00        | 53.02 AV                      | 54.00             | -0.98          | 1.24 H                   | 133                        | 14.53                  | 38.49                          |
| 4   | 9848.00        | 48.51 PK                      | 74.00             | -25.49         | 1.24 H                   | 156                        | 13.18                  | 35.33                          |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 2374.00        | 57.85 PK                      | 74.00             | -16.15         | 1.17 V                   | 342                        | 26.10                  | 31.75                          |
| 1   | 2374.00        | 46.69 AV                      | 54.00             | -7.31          | 1.17 V                   | 342                        | 14.94                  | 31.75                          |
| 2   | *2462.00       | 117.67 PK                     |                   |                | 1.10 V                   | 342                        | 85.65                  | 32.02                          |
| 2   | *2462.00       | 109.85 AV                     |                   |                | 1.10 V                   | 342                        | 77.83                  | 32.02                          |
| 3   | 2500.00        | 60.05 PK                      | 74.00             | -13.95         | 1.10 V                   | 342                        | 27.91                  | 32.14                          |
| 3   | 2500.00        | 52.23 AV                      | 54.00             | -1.77          | 1.10 V                   | 342                        | 20.09                  | 32.14                          |
| 4   | 4924.00        | 54.27 PK                      | 74.00             | -19.73         | 1.07 V                   | 125                        | 15.78                  | 38.49                          |
| 4   | 4924.00        | 50.26 AV                      | 54.00             | -3.74          | 1.07 V                   | 125                        | 11.77                  | 38.49                          |
| 5   | 9848.00        | 49.68 PK                      | 74.00             | -24.32         | 1.24 V                   | 189                        | 14.35                  | 35.33                          |

- 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.

|                                 |                                               |                          |                           |
|---------------------------------|-----------------------------------------------|--------------------------|---------------------------|
| <b>EUT</b>                      | Indoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>             | WL-565                    |
| <b>CHANNEL</b>                  | 1                                             | <b>TEST MODE</b>         | 2                         |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                | <b>FREQUENCY RANGE</b>   | 1~25 GHz                  |
| <b>MODULATION TYPE</b>          | CCK                                           | <b>TRANSFER RATE</b>     | 11Mbps                    |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 58% RH, 991 hPa                    | <b>DETECTOR FUNCTION</b> | Peak (PK)<br>Average (AV) |
| <b>TESTED BY</b>                | Match Tsui                                    |                          |                           |

| 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                                                   | 2390.00     | 32.11 PK                | 74.00          | -41.89      | 1.20 H             | 145                  | 0.31             | 31.80                    |
| 2                                                   | *2412.00    | 84.11 PK                |                |             | 1.20 H             | 145                  | 52.24            | 31.87                    |
| 2                                                   | *2412.00    | 75.20 AV                |                |             | 1.20 H             | 145                  | 43.33            | 31.87                    |
| 3                                                   | 4824.00     | 56.80 PK                | 74.00          | -17.20      | 1.45 H             | 250                  | 18.69            | 38.11                    |
| 3                                                   | 4824.00     | 49.80 AV                | 54.00          | -4.20       | 1.45 H             | 250                  | 11.69            | 38.11                    |
| 4                                                   | 9648.00     | 56.10 PK                | 74.00          | -17.90      | 1.45 H             | 89                   | 13.82            | 42.28                    |
| 4                                                   | 9648.00     | 50.10 AV                | 54.00          | -3.90       | 1.45 H             | 89                   | 7.82             | 42.28                    |

| 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                                                 | 2373.00     | 53.90 PK                | 74.00          | -20.10      | 1.20 V             | 120                  | 22.15            | 31.75                    |
| 1                                                 | 2373.00     | 43.80 AV                | 54.00          | -10.20      | 1.20 V             | 120                  | 12.05            | 31.75                    |
| 2                                                 | 2390.00     | 53.40 PK                | 74.00          | -20.60      | 1.29 V             | 135                  | 21.60            | 31.80                    |
| 2                                                 | 2390.00     | 44.90 AV                | 54.00          | -9.10       | 1.29 V             | 135                  | 13.10            | 31.80                    |
| 3                                                 | *2412.00    | 105.40 PK               |                |             | 1.29 V             | 135                  | 73.53            | 31.87                    |
| 3                                                 | *2412.00    | 96.90 AV                |                |             | 1.29 V             | 135                  | 65.03            | 31.87                    |
| 4                                                 | 4824.00     | 54.20 PK                | 74.00          | -19.80      | 1.22 V             | 120                  | 16.09            | 38.11                    |
| 4                                                 | 4824.00     | 47.90 AV                | 54.00          | -6.10       | 1.22 V             | 120                  | 9.79             | 38.11                    |
| 5                                                 | 9648.00     | 54.70 PK                | 74.00          | -19.30      | 1.22 V             | 110                  | 12.42            | 42.28                    |
| 5                                                 | 9648.00     | 47.20 AV                | 54.00          | -6.80       | 1.22 V             | 110                  | 4.92             | 42.28                    |

- 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.

|                                 |                                               |                          |                           |
|---------------------------------|-----------------------------------------------|--------------------------|---------------------------|
| <b>EUT</b>                      | Indoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>             | WL-565                    |
| <b>CHANNEL</b>                  | 6                                             | <b>TEST MODE</b>         | 2                         |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                | <b>FREQUENCY RANGE</b>   | 1~25 GHz                  |
| <b>MODULATION TYPE</b>          | CCK                                           | <b>TRANSFER RATE</b>     | 11Mbps                    |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 58% RH, 991 hPa                    | <b>DETECTOR FUNCTION</b> | Peak (PK)<br>Average (AV) |
| <b>TESTED BY</b>                | Match Tsui                                    |                          |                           |

#### 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   | *2437.00    | 90.47 PK                |                |             | 1.10 H             | 300                  | 58.52            | 31.95                    |
| 1   | *2437.00    | 79.10 AV                |                |             | 1.10 H             | 300                  | 47.15            | 31.95                    |
| 2   | 4874.00     | 58.20 PK                | 74.00          | -15.80      | 1.20 H             | 50                   | 19.92            | 38.28                    |
| 2   | 4874.00     | 50.10 AV                | 54.00          | -3.90       | 1.20 H             | 50                   | 11.82            | 38.28                    |
| 3   | 9748.00     | 51.80 PK                | 74.00          | -22.20      | 1.16 H             | 45                   | 13.29            | 38.51                    |
| 3   | 9748.00     | 44.50 AV                | 54.00          | -9.50       | 1.16 H             | 45                   | 5.99             | 38.51                    |

#### 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   | 2366.00     | 53.20 PK                | 74.00          | -20.80      | 1.30 V             | 150                  | 21.47            | 31.73                    |
| 1   | 2366.00     | 40.89 AV                | 54.00          | -13.11      | 1.30 V             | 150                  | 9.16             | 31.73                    |
| 2   | *2437.00    | 109.40 PK               |                |             | 1.50 V             | 180                  | 77.95            | 31.95                    |
| 2   | *2437.00    | 100.40 AV               |                |             | 1.50 V             | 180                  | 68.45            | 31.95                    |
| 3   | 4874.00     | 58.50 PK                | 74.00          | -15.50      | 1.30 V             | 150                  | 20.22            | 38.28                    |
| 3   | 4874.00     | 48.50 AV                | 54.00          | -5.50       | 1.30 V             | 150                  | 10.22            | 38.28                    |
| 4   | 9748.00     | 50.80 PK                | 74.00          | -23.20      | 1.20 V             | 185                  | 12.29            | 38.51                    |

- 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.

|                                 |                                               |                          |                           |
|---------------------------------|-----------------------------------------------|--------------------------|---------------------------|
| <b>EUT</b>                      | Indoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>             | WL-565                    |
| <b>CHANNEL</b>                  | 11                                            | <b>TEST MODE</b>         | 2                         |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                | <b>FREQUENCY RANGE</b>   | 1~25 GHz                  |
| <b>MODULATION TYPE</b>          | CCK                                           | <b>TRANSFER RATE</b>     | 11Mbps                    |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 58% RH, 991 hPa                    | <b>DETECTOR FUNCTION</b> | Peak (PK)<br>Average (AV) |
| <b>TESTED BY</b>                | Match Tsui                                    |                          |                           |

#### 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   | *2462.00    | 82.70 PK                |                |             | 1.18 H             | 140                  | 50.68            | 32.02                    |
| 1   | *2462.00    | 73.70 AV                |                |             | 1.18 H             | 140                  | 41.68            | 32.02                    |
| 2   | 2500.00     | 28.70 PK                | 74.00          | -45.30      | 1.18 H             | 140                  | -3.44            | 32.14                    |
| 3   | 4924.00     | 56.40 PK                | 74.00          | -17.60      | 1.20 H             | 56                   | 17.91            | 38.49                    |
| 3   | 4924.00     | 51.79 AV                | 54.00          | -2.21       | 1.20 H             | 56                   | 13.30            | 38.49                    |
| 4   | 9848.00     | 49.80 PK                | 74.00          | -24.20      | 1.18 H             | 50                   | 14.47            | 35.33                    |

#### 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   | 2367.00     | 50.60 PK                | 74.00          | -23.40      | 1.50 V             | 50                   | 18.87            | 31.73                    |
| 1   | 2367.00     | 39.70 AV                | 54.00          | -14.30      | 1.50 V             | 50                   | 7.97             | 31.73                    |
| 2   | *2462.00    | 102.41 PK               |                |             | 1.04 V             | 230                  | 70.39            | 32.02                    |
| 2   | *2462.00    | 93.70 AV                |                |             | 1.04 V             | 230                  | 61.68            | 32.02                    |
| 3   | 2500.00     | 48.41 PK                | 74.00          | -25.59      | 1.05 V             | 230                  | 16.27            | 32.14                    |
| 4   | 4924.00     | 54.80 PK                | 74.00          | -19.20      | 1.30 V             | 68                   | 16.31            | 38.49                    |
| 4   | 4924.00     | 50.70 AV                | 54.00          | -3.30       | 1.30 V             | 68                   | 12.21            | 38.49                    |
| 5   | 9848.00     | 47.80 PK                | 74.00          | -26.20      | 1.30 V             | 50                   | 12.47            | 35.33                    |

- 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.

|                                 |                                               |                          |                           |
|---------------------------------|-----------------------------------------------|--------------------------|---------------------------|
| <b>EUT</b>                      | Indoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>             | WL-565                    |
| <b>CHANNEL</b>                  | 1                                             | <b>TEST MODE</b>         | 3                         |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                | <b>FREQUENCY RANGE</b>   | 1~25 GHz                  |
| <b>MODULATION TYPE</b>          | CCK                                           | <b>TRANSFER RATE</b>     | 11Mbps                    |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 58% RH, 991 hPa                    | <b>DETECTOR FUNCTION</b> | Peak (PK)<br>Average (AV) |
| <b>TESTED BY</b>                | Match Tsui                                    |                          |                           |

| 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                                                   | 1000.00     | 43.97 PK                | 74.00          | -30.03      | 1.10 H             | 360                  | 17.63            | 26.34                    |
| 2                                                   | 2390.00     | 29.65 PK                | 74.00          | -44.35      | 1.50 H             | 332                  | -2.15            | 31.80                    |
| 3                                                   | *2412.00    | 87.73 PK                |                |             | 1.50 H             | 332                  | 55.86            | 31.87                    |
| 3                                                   | *2412.00    | 79.94 AV                |                |             | 1.50 H             | 332                  | 48.07            | 31.87                    |
| 4                                                   | 4824.00     | 56.11 PK                | 74.00          | -17.89      | 1.50 H             | 360                  | 18.00            | 38.11                    |
| 4                                                   | 4824.00     | 56.11 PK                | 74.00          | -17.89      | 1.50 H             | 360                  | 18.00            | 38.11                    |
| 5                                                   | 9648.00     | 55.99 PK                | 74.00          | -18.01      | 1.50 H             | 69                   | 13.71            | 42.28                    |
| 5                                                   | 9648.00     | 55.99 PK                | 74.00          | -18.01      | 1.50 H             | 69                   | 13.71            | 42.28                    |

| 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                                                 | 2373.00     | 54.80 PK                | 74.00          | -19.20      | 1.29 V             | 135                  | 23.05            | 31.75                    |
| 1                                                 | 2373.00     | 43.31 AV                | 54.00          | -10.69      | 1.29 V             | 135                  | 11.56            | 31.75                    |
| 2                                                 | 2387.00     | 49.85 PK                | 74.00          | -24.15      | 1.10 V             | 160                  | 18.06            | 31.79                    |
| 3                                                 | *2412.00    | 107.93 PK               |                |             | 1.10 V             | 160                  | 76.06            | 31.87                    |
| 3                                                 | *2412.00    | 99.74 AV                |                |             | 1.10 V             | 160                  | 67.87            | 31.87                    |
| 4                                                 | 4824.00     | 55.09 PK                | 74.00          | -18.91      | 1.22 V             | 154                  | 16.98            | 38.11                    |
| 4                                                 | 4824.00     | 48.51 AV                | 54.00          | -5.49       | 1.22 V             | 154                  | 10.40            | 38.11                    |
| 5                                                 | 9648.00     | 55.08 PK                | 74.00          | -18.92      | 1.21 V             | 51                   | 12.80            | 42.28                    |
| 5                                                 | 9648.00     | 47.28 AV                | 54.00          | -6.72       | 1.21 V             | 51                   | 5.00             | 42.28                    |

- 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.

|                                 |                                               |                          |                           |
|---------------------------------|-----------------------------------------------|--------------------------|---------------------------|
| <b>EUT</b>                      | Indoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>             | WL-565                    |
| <b>CHANNEL</b>                  | 6                                             | <b>TEST MODE</b>         | 3                         |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                | <b>FREQUENCY RANGE</b>   | 1~25 GHz                  |
| <b>MODULATION TYPE</b>          | CCK                                           | <b>TRANSFER RATE</b>     | 11Mbps                    |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 58% RH, 991 hPa                    | <b>DETECTOR FUNCTION</b> | Peak (PK)<br>Average (AV) |
| <b>TESTED BY</b>                | Match Tsui                                    |                          |                           |

#### 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   | *2437.00    | 96.07 PK                |                |             | 1.17 H             | 309                  | 64.12            | 31.95                    |
| 1   | *2437.00    | 88.39 AV                |                |             | 1.17 H             | 309                  | 56.44            | 31.95                    |
| 2   | 4874.00     | 57.09 PK                | 74.00          | -16.91      | 1.21 H             | 18                   | 18.81            | 38.28                    |
| 2   | 4874.00     | 49.53 AV                | 54.00          | -4.47       | 1.21 H             | 18                   | 11.25            | 38.28                    |
| 3   | 9748.00     | 51.06 PK                | 74.00          | -22.94      | 1.18 H             | 95                   | 12.55            | 38.51                    |
| 3   | 9748.00     | 43.29 AV                | 54.00          | -10.71      | 1.18 H             | 95                   | 4.78             | 38.51                    |

#### 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   | 2366.00     | 53.22 PK                | 74.00          | -20.78      | 1.30 V             | 138                  | 21.49            | 31.73                    |
| 1   | 2366.00     | 41.87 AV                | 54.00          | -12.13      | 1.30 V             | 138                  | 10.14            | 31.73                    |
| 2   | *2437.00    | 113.29 PK               |                |             | 1.53 V             | 52                   | 81.34            | 31.95                    |
| 2   | *2437.00    | 105.42 AV               |                |             | 1.53 V             | 52                   | 73.47            | 31.95                    |
| 3   | 4874.00     | 59.02 PK                | 74.00          | -14.98      | 1.35 V             | 155                  | 20.74            | 38.28                    |
| 3   | 4874.00     | 49.21 AV                | 54.00          | -4.79       | 1.35 V             | 155                  | 10.93            | 38.28                    |
| 4   | 9748.00     | 51.94 PK                | 74.00          | -22.06      | 1.36 V             | 218                  | 13.43            | 38.51                    |
| 4   | 9748.00     | 46.11 AV                | 54.00          | -7.89       | 1.36 V             | 218                  | 7.60             | 38.51                    |

- 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.

|                                 |                                               |                          |                           |
|---------------------------------|-----------------------------------------------|--------------------------|---------------------------|
| <b>EUT</b>                      | Indoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>             | WL-565                    |
| <b>CHANNEL</b>                  | 11                                            | <b>TEST MODE</b>         | 3                         |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                | <b>FREQUENCY RANGE</b>   | 1~25 GHz                  |
| <b>MODULATION TYPE</b>          | CCK                                           | <b>TRANSFER RATE</b>     | 11Mbps                    |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 58% RH, 991 hPa                    | <b>DETECTOR FUNCTION</b> | Peak (PK)<br>Average (AV) |
| <b>TESTED BY</b>                | Match Tsui                                    |                          |                           |

| 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                                                   | 1000.00     | 44.62 PK                | 74.00          | -29.38      | 1.28 H             | 360                  | 18.28            | 26.34                    |
| 2                                                   | *2462.00    | 87.79 PK                |                |             | 1.15 H             | 144                  | 55.77            | 32.02                    |
| 2                                                   | *2462.00    | 79.98 AV                |                |             | 1.15 H             | 144                  | 47.96            | 32.02                    |
| 3                                                   | 2500.00     | 29.77 PK                | 74.00          | -44.23      | 1.15 H             | 144                  | -2.37            | 32.14                    |
| 4                                                   | 4924.00     | 55.34 PK                | 74.00          | -18.66      | 1.20 H             | 25                   | 16.85            | 38.49                    |
| 4                                                   | 4924.00     | 51.49 AV                | 54.00          | -2.51       | 1.20 H             | 25                   | 13.00            | 38.49                    |
| 5                                                   | 9848.00     | 48.74 PK                | 74.00          | -25.26      | 1.16 H             | 63                   | 13.41            | 35.33                    |

| 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                                                 | 2367.00     | 49.33 PK                | 74.00          | -24.67      | 1.24 V             | 60                   | 17.60            | 31.73                    |
| 2                                                 | *2462.00    | 107.24 PK               |                |             | 1.04 V             | 231                  | 75.22            | 32.02                    |
| 2                                                 | *2462.00    | 99.71 AV                |                |             | 1.04 V             | 231                  | 67.89            | 32.02                    |
| 3                                                 | 2500.00     | 49.22 PK                | 74.00          | -24.78      | 1.04 V             | 231                  | 12.08            | 32.14                    |
| 3                                                 | 2500.00     | 41.69 AV                | 54.00          | -12.31      | 1.04 V             | 231                  | 12.08            | 32.14                    |
| 4                                                 | 4924.00     | 54.68 PK                | 74.00          | -19.32      | 1.40 V             | 34                   | 16.19            | 38.49                    |
| 4                                                 | 4924.00     | 49.19 AV                | 54.00          | -4.81       | 1.40 V             | 34                   | 10.70            | 38.49                    |
| 5                                                 | 9848.00     | 47.99 PK                | 74.00          | -26.01      | 1.05 V             | 36                   | 12.66            | 35.33                    |

- 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.

|                                 |                                               |                          |                           |
|---------------------------------|-----------------------------------------------|--------------------------|---------------------------|
| <b>EUT</b>                      | Indoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>             | WL-565                    |
| <b>CHANNEL</b>                  | 1                                             | <b>TEST MODE</b>         | 4                         |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                | <b>FREQUENCY RANGE</b>   | 1~25 GHz                  |
| <b>MODULATION TYPE</b>          | CCK                                           | <b>TRANSFER RATE</b>     | 11Mbps                    |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 58% RH, 991 hPa                    | <b>DETECTOR FUNCTION</b> | Peak (PK)<br>Average (AV) |
| <b>TESTED BY</b>                | Match Tsui                                    |                          |                           |

| 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                                                   | 2390.00     | 43.14 PK                | 74.00          | -30.86      | 1.00 H             | 128                  | 11.34            | 31.80                    |
| 2                                                   | *2412.00    | 100.63 PK               |                |             | 1.00 H             | 128                  | 68.76            | 31.87                    |
| 2                                                   | *2412.00    | 92.49 AV                |                |             | 1.00 H             | 128                  | 60.62            | 31.87                    |
| 3                                                   | 4824.00     | 55.49 PK                | 74.00          | -18.51      | 1.13 H             | 65                   | 17.38            | 38.11                    |
| 3                                                   | 4824.00     | 51.33 AV                | 54.00          | -2.67       | 1.13 H             | 65                   | 13.22            | 38.11                    |

| 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                                                 | 2374.00     | 60.97 PK                | 74.00          | -13.03      | 1.17 V             | 160                  | 29.22            | 31.75                    |
| 1                                                 | 2374.00     | 49.71 AV                | 54.00          | -4.29       | 1.17 V             | 160                  | 17.96            | 31.75                    |
| 2                                                 | 2390.00     | 59.92 PK                | 74.00          | -14.08      | 1.15 V             | 163                  | 28.12            | 31.80                    |
| 2                                                 | 2390.00     | 51.68 AV                | 54.00          | -2.32       | 1.15 V             | 163                  | 19.88            | 31.80                    |
| 3                                                 | *2412.00    | 117.93 PK               |                |             | 1.15 V             | 163                  | 86.06            | 31.87                    |
| 3                                                 | *2412.00    | 109.69 AV               |                |             | 1.15 V             | 163                  | 77.82            | 31.87                    |
| 4                                                 | 4824.00     | 54.66 PK                | 74.00          | -19.34      | 1.00 V             | 330                  | 16.55            | 38.11                    |
| 4                                                 | 4824.00     | 49.77 AV                | 54.00          | -4.23       | 1.00 V             | 330                  | 11.66            | 38.11                    |
| 5                                                 | 9648.00     | 54.46 PK                | 74.00          | -19.54      | 1.12 V             | 25                   | 12.18            | 42.28                    |
| 5                                                 | 9648.00     | 45.44 AV                | 54.00          | -8.56       | 1.12 V             | 25                   | 3.16             | 42.28                    |

- 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.

|                                 |                                               |                          |                           |
|---------------------------------|-----------------------------------------------|--------------------------|---------------------------|
| <b>EUT</b>                      | Indoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>             | WL-565                    |
| <b>CHANNEL</b>                  | 6                                             | <b>TEST MODE</b>         | 4                         |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                | <b>FREQUENCY RANGE</b>   | 1~25 GHz                  |
| <b>MODULATION TYPE</b>          | CCK                                           | <b>TRANSFER RATE</b>     | 11Mbps                    |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 58% RH, 991 hPa                    | <b>DETECTOR FUNCTION</b> | Peak (PK)<br>Average (AV) |
| <b>TESTED BY</b>                | Match Tsui                                    |                          |                           |

#### 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   | *2437.00    | 102.96 PK               |                |             | 1.00 H             | 128                  | 71.01            | 31.95                    |
| 1   | *2437.00    | 95.19 AV                |                |             | 1.00 H             | 128                  | 63.24            | 31.95                    |
| 2   | 4874.00     | 58.66 PK                | 74.00          | -15.34      | 1.00 H             | 1                    | 20.38            | 38.28                    |
| 2   | 4874.00     | 48.16 AV                | 54.00          | -5.84       | 1.00 H             | 1                    | 9.88             | 38.28                    |

#### 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   | 2376.00     | 58.67 PK                | 74.00          | -15.33      | 1.16 V             | 163                  | 26.91            | 31.76                    |
| 1   | 2376.00     | 46.91 AV                | 54.00          | -7.09       | 1.16 V             | 163                  | 15.15            | 31.76                    |
| 2   | *2437.00    | 123.34 PK               |                |             | 1.14 V             | 162                  | 91.39            | 31.95                    |
| 2   | *2437.00    | 115.50 AV               |                |             | 1.14 V             | 162                  | 83.55            | 31.95                    |
| 3   | 4874.00     | 60.14 PK                | 74.00          | -13.86      | 1.01 V             | 76                   | 21.86            | 38.28                    |
| 3   | 4874.00     | 51.78 AV                | 54.00          | -2.22       | 1.01 V             | 76                   | 13.50            | 38.28                    |
| 4   | 9748.00     | 50.85 PK                | 74.00          | -23.15      | 1.01 V             | 25                   | 12.34            | 38.51                    |

- 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.

|                                 |                                               |                          |                           |
|---------------------------------|-----------------------------------------------|--------------------------|---------------------------|
| <b>EUT</b>                      | Indoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>             | WL-565                    |
| <b>CHANNEL</b>                  | 11                                            | <b>TEST MODE</b>         | 4                         |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                | <b>FREQUENCY RANGE</b>   | 1~25 GHz                  |
| <b>MODULATION TYPE</b>          | CCK                                           | <b>TRANSFER RATE</b>     | 11Mbps                    |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 58% RH, 991 hPa                    | <b>DETECTOR FUNCTION</b> | Peak (PK)<br>Average (AV) |
| <b>TESTED BY</b>                | Match Tsui                                    |                          |                           |

#### 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   | *2462.00    | 95.97 PK                |                |             | 1.14 H             | 131                  | 63.95            | 32.02                    |
| 1   | *2462.00    | 88.04 AV                |                |             | 1.14 H             | 131                  | 56.02            | 32.02                    |
| 2   | 2483.50     | 41.31 PK                | 74.00          | -32.69      | 1.14 H             | 131                  | 9.22             | 32.09                    |
| 3   | 4924.00     | 53.54 PK                | 74.00          | -20.46      | 1.13 H             | 13                   | 15.05            | 38.49                    |
| 3   | 4924.00     | 47.11 AV                | 54.00          | -6.89       | 1.13 H             | 13                   | 8.62             | 38.49                    |

#### 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   | *2462.00    | 114.45 PK               |                |             | 1.10 V             | 158                  | 82.43            | 32.02                    |
| 1   | *2462.00    | 109.39 AV               |                |             | 1.10 V             | 158                  | 77.37            | 32.02                    |
| 2   | 2483.50     | 57.79 PK                | 74.00          | -16.21      | 1.10 V             | 158                  | 25.70            | 32.09                    |
| 2   | 2483.50     | 52.73 AV                | 54.00          | -1.27       | 1.10 V             | 158                  | 20.64            | 32.09                    |
| 3   | 2500.00     | 59.29 PK                | 74.00          | -14.71      | 1.07 V             | 162                  | 27.15            | 32.14                    |
| 3   | 2500.00     | 48.51 AV                | 54.00          | -5.49       | 1.07 V             | 162                  | 16.37            | 32.14                    |
| 4   | 4924.00     | 54.15 PK                | 74.00          | -19.85      | 1.10 V             | 57                   | 15.66            | 38.49                    |
| 4   | 4924.00     | 49.26 AV                | 54.00          | -4.74       | 1.10 V             | 57                   | 10.77            | 38.49                    |

- 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 with POE (Model): PW130RA4800N02**

|                                     |                                                      |                              |                           |
|-------------------------------------|------------------------------------------------------|------------------------------|---------------------------|
| <b>EUT</b>                          | Outdoor 11g 54Mbps<br>Building to Building<br>Bridge | <b>MODEL</b>                 | WL-565B                   |
| <b>CHANNEL</b>                      | 1                                                    | <b>TEST MODE</b>             | 1                         |
| <b>INPUT POWER<br/>(SYSTEM)</b>     | 120 Vac, 60 Hz                                       | <b>FREQUENCY<br/>RANGE</b>   | 1~25 GHz                  |
| <b>MODULATION TYPE</b>              | BPSK                                                 | <b>TRANSFER<br/>RATE</b>     | 6Mbps                     |
| <b>ENVIRONMENTAL<br/>CONDITIONS</b> | 25 deg. C, 58% RH,<br>991 hPa                        | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)<br>Average (AV) |
| <b>TESTED BY</b>                    | Match Tsui                                           |                              |                           |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 2374.00        | 40.70 PK                      | 74.00             | -33.30         | 1.00 H                   | 306                        | 8.95                   | 31.75                          |
| 2   | *2412.00       | 94.18 PK                      |                   |                | 1.00 H                   | 306                        | 62.31                  | 31.87                          |
| 2   | *2412.00       | 84.95 AV                      |                   |                | 1.00 H                   | 306                        | 53.08                  | 31.87                          |
| 3   | 4824.00        | 55.00 PK                      | 74.00             | -19.00         | 1.15 H                   | 212                        | 16.89                  | 38.11                          |
| 3   | 4824.00        | 51.57 AV                      | 54.00             | -2.43          | 1.15 H                   | 212                        | 13.46                  | 38.11                          |
| 4   | 9648.00        | 56.66 PK                      | 74.00             | -17.34         | 1.41 H                   | 153                        | 14.38                  | 42.28                          |
| 4   | 9648.00        | 50.85 AV                      | 54.00             | -3.15          | 1.41 H                   | 153                        | 8.57                   | 42.28                          |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 2374.00        | 61.77 PK                      | 74.00             | -12.23         | 1.12 V                   | 342                        | 30.02                  | 31.75                          |
| 1   | 2374.00        | 51.98 AV                      | 54.00             | -2.02          | 1.12 V                   | 342                        | 20.23                  | 31.75                          |
| 2   | *2412.00       | 115.25 PK                     |                   |                | 1.12 V                   | 342                        | 83.38                  | 31.87                          |
| 2   | *2412.00       | 105.46 AV                     |                   |                | 1.12 V                   | 342                        | 73.59                  | 31.87                          |
| 3   | 2500.00        | 58.22 PK                      | 74.00             | -15.78         | 1.08 V                   | 340                        | 26.08                  | 32.14                          |
| 3   | 2500.00        | 45.52 AV                      | 54.00             | -8.48          | 1.08 V                   | 340                        | 13.38                  | 32.14                          |
| 4   | 4824.00        | 56.41 PK                      | 74.00             | -17.59         | 1.00 V                   | 127                        | 18.30                  | 38.11                          |
| 4   | 4824.00        | 52.82 AV                      | 54.00             | -1.18          | 1.00 V                   | 127                        | 14.71                  | 38.11                          |
| 5   | 9648.00        | 56.64 PK                      | 74.00             | -17.36         | 1.08 V                   | 201                        | 14.36                  | 42.28                          |
| 5   | 9648.00        | 50.78 AV                      | 54.00             | -3.22          | 1.08 V                   | 201                        | 8.50                   | 42.28                          |

- 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.

|                                     |                                                      |                              |                           |
|-------------------------------------|------------------------------------------------------|------------------------------|---------------------------|
| <b>EUT</b>                          | Outdoor 11g 54Mbps<br>Building to Building<br>Bridge | <b>MODEL</b>                 | WL-565B                   |
| <b>CHANNEL</b>                      | 6                                                    | <b>TEST MODE</b>             | 1                         |
| <b>INPUT POWER<br/>(SYSTEM)</b>     | 120 Vac, 60 Hz                                       | <b>FREQUENCY<br/>RANGE</b>   | 1~25 GHz                  |
| <b>MODULATION TYPE</b>              | BPSK                                                 | <b>TRANSFER<br/>RATE</b>     | 6Mbps                     |
| <b>ENVIRONMENTAL<br/>CONDITIONS</b> | 25 deg. C, 58% RH,<br>991 hPa                        | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)<br>Average (AV) |
| <b>TESTED BY</b>                    | Match Tsui                                           |                              |                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No.                                                 | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                   | *2437.00       | 101.30 PK                     |                   |                | 1.00 H                   | 310                        | 69.35                  | 31.95                          |
| 1                                                   | *2437.00       | 92.07 AV                      |                   |                | 1.00 H                   | 310                        | 60.12                  | 31.95                          |
| 2                                                   | 4874.00        | 54.42 PK                      | 74.00             | -19.58         | 1.14 H                   | 211                        | 16.14                  | 38.28                          |
| 2                                                   | 4874.00        | 50.62 AV                      | 54.00             | -3.38          | 1.14 H                   | 211                        | 12.34                  | 38.28                          |
| 3                                                   | 9748.00        | 53.10 PK                      | 74.00             | -20.90         | 1.34 H                   | 154                        | 14.59                  | 38.51                          |
| 3                                                   | 9748.00        | 47.03 AV                      | 54.00             | -6.97          | 1.34 H                   | 154                        | 8.52                   | 38.51                          |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|---------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No.                                               | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                 | 2372.00        | 61.80 PK                      | 74.00             | -12.20         | 1.17 V                   | 341                        | 30.06                  | 31.74                          |
| 1                                                 | 2372.00        | 49.81 AV                      | 54.00             | -4.19          | 1.17 V                   | 341                        | 18.07                  | 31.74                          |
| 2                                                 | *2437.00       | 121.21 PK                     |                   |                | 1.10 V                   | 340                        | 89.26                  | 31.95                          |
| 2                                                 | *2437.00       | 112.09 AV                     |                   |                | 1.10 V                   | 340                        | 80.14                  | 31.95                          |
| 3                                                 | 4874.00        | 57.06 PK                      | 74.00             | -16.94         | 1.22 V                   | 129                        | 18.78                  | 38.28                          |
| 3                                                 | 4874.00        | 52.71 AV                      | 54.00             | -1.29          | 1.22 V                   | 129                        | 14.43                  | 38.28                          |
| 4                                                 | 9748.00        | 51.10 PK                      | 74.00             | -22.90         | 1.28 V                   | 167                        | 12.59                  | 38.51                          |
| 4                                                 | 9748.00        | 44.38 AV                      | 54.00             | -9.62          | 1.28 V                   | 167                        | 5.87                   | 38.51                          |

- 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.

|                                     |                                                      |                              |                           |
|-------------------------------------|------------------------------------------------------|------------------------------|---------------------------|
| <b>EUT</b>                          | Outdoor 11g 54Mbps<br>Building to Building<br>Bridge | <b>MODEL</b>                 | WL-565B                   |
| <b>CHANNEL</b>                      | 11                                                   | <b>TEST MODE</b>             | 1                         |
| <b>INPUT POWER<br/>(SYSTEM)</b>     | 120 Vac, 60 Hz                                       | <b>FREQUENCY<br/>RANGE</b>   | 1~25 GHz                  |
| <b>MODULATION TYPE</b>              | BPSK                                                 | <b>TRANSFER<br/>RATE</b>     | 6Mbps                     |
| <b>ENVIRONMENTAL<br/>CONDITIONS</b> | 25 deg. C, 58% RH,<br>991 hPa                        | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)<br>Average (AV) |
| <b>TESTED BY</b>                    | Match Tsui                                           |                              |                           |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No.                                                 | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                   | *2462.00       | 92.92 PK                      |                   |                | 1.15 H                   | 310                        | 60.90                  | 32.02                          |
| 1                                                   | *2462.00       | 83.26 AV                      |                   |                | 1.15 H                   | 310                        | 51.24                  | 32.02                          |
| 2                                                   | 2500.00        | 40.19 PK                      | 74.00             | -33.81         | 1.15 H                   | 310                        | 8.05                   | 32.14                          |
| 3                                                   | 4924.00        | 55.41 PK                      | 74.00             | -18.59         | 1.09 H                   | 131                        | 16.92                  | 38.49                          |
| 3                                                   | 4924.00        | 52.05 AV                      | 54.00             | -1.95          | 1.09 H                   | 131                        | 13.56                  | 38.49                          |
| 4                                                   | 9848.00        | 49.51 PK                      | 74.00             | -24.49         | 1.15 H                   | 154                        | 14.18                  | 35.33                          |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|---------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No.                                               | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                 | 2374.00        | 59.55 PK                      | 74.00             | -14.45         | 1.14 V                   | 341                        | 27.80                  | 31.75                          |
| 1                                                 | 2374.00        | 45.53 AV                      | 54.00             | -8.47          | 1.14 V                   | 341                        | 13.78                  | 31.75                          |
| 2                                                 | *2462.00       | 113.53 PK                     |                   |                | 1.09 V                   | 342                        | 81.51                  | 32.02                          |
| 2                                                 | *2462.00       | 103.91 AV                     |                   |                | 1.09 V                   | 342                        | 71.89                  | 32.02                          |
| 3                                                 | 2500.00        | 60.80 PK                      | 74.00             | -13.20         | 1.09 V                   | 342                        | 28.66                  | 32.14                          |
| 3                                                 | 2500.00        | 51.18 AV                      | 54.00             | -2.82          | 1.09 V                   | 342                        | 19.04                  | 32.14                          |
| 4                                                 | 4924.00        | 56.52 PK                      | 74.00             | -17.48         | 1.08 V                   | 136                        | 18.03                  | 38.49                          |
| 4                                                 | 4924.00        | 53.00 AV                      | 54.00             | -1.00          | 1.08 V                   | 136                        | 14.51                  | 38.49                          |
| 5                                                 | 9848.00        | 47.07 PK                      | 74.00             | -26.93         | 1.26 V                   | 131                        | 11.74                  | 35.33                          |

- 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.

|                                 |                                               |                          |                           |
|---------------------------------|-----------------------------------------------|--------------------------|---------------------------|
| <b>EUT</b>                      | Indoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>             | WL-565                    |
| <b>CHANNEL</b>                  | 1                                             | <b>TEST MODE</b>         | 2                         |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                | <b>FREQUENCY RANGE</b>   | 1~25 GHz                  |
| <b>MODULATION TYPE</b>          | BPSK                                          | <b>TRANSFER RATE</b>     | 6Mbps                     |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 58% RH, 991 hPa                    | <b>DETECTOR FUNCTION</b> | Peak (PK)<br>Average (AV) |
| <b>TESTED BY</b>                | Match Tsui                                    |                          |                           |

| 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                                                   | 2390.00     | 35.10 PK                | 74.00          | -38.90      | 1.00 H             | 270                  | 3.30             | 31.80                    |
| 2                                                   | *2412.00    | 81.10 PK                |                |             | 1.00 H             | 270                  | 49.23            | 31.87                    |
| 2                                                   | *2412.00    | 72.80 AV                |                |             | 1.00 H             | 270                  | 40.93            | 31.87                    |
| 3                                                   | 4824.00     | 57.10 PK                | 74.00          | -16.90      | 1.00 H             | 300                  | 18.99            | 38.11                    |
| 3                                                   | 4824.00     | 51.20 AV                | 54.00          | -2.80       | 1.00 H             | 300                  | 13.09            | 38.11                    |

| 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                                                 | 2375.00     | 52.10 PK                | 74.00          | -21.90      | 1.00 V             | 222                  | 20.35            | 31.75                    |
| 1                                                 | 2375.00     | 41.50 AV                | 54.00          | -12.50      | 1.00 V             | 222                  | 9.75             | 31.75                    |
| 2                                                 | 2390.00     | 56.82 PK                | 74.00          | -17.18      | 1.06 V             | 222                  | 25.02            | 31.80                    |
| 2                                                 | 2390.00     | 45.85 AV                | 54.00          | -8.15       | 1.06 V             | 222                  | 14.05            | 31.80                    |
| 3                                                 | *2412.00    | 101.48 PK               |                |             | 1.18 V             | 222                  | 69.61            | 31.87                    |
| 3                                                 | *2412.00    | 92.14 AV                |                |             | 1.18 V             | 222                  | 60.27            | 31.87                    |
| 4                                                 | 4824.00     | 53.80 PK                | 74.00          | -20.20      | 1.11 V             | 10                   | 15.69            | 38.11                    |
| 4                                                 | 4824.00     | 50.10 AV                | 54.00          | -3.90       | 1.11 V             | 10                   | 11.99            | 38.11                    |

- 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.

|                                 |                                               |                          |                           |
|---------------------------------|-----------------------------------------------|--------------------------|---------------------------|
| <b>EUT</b>                      | Indoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>             | WL-565                    |
| <b>CHANNEL</b>                  | 6                                             | <b>TEST MODE</b>         | 2                         |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                | <b>FREQUENCY RANGE</b>   | 1~25 GHz                  |
| <b>MODULATION TYPE</b>          | BPSK                                          | <b>TRANSFER RATE</b>     | 6Mbps                     |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 58% RH, 991 hPa                    | <b>DETECTOR FUNCTION</b> | Peak (PK)<br>Average (AV) |
| <b>TESTED BY</b>                | Match Tsui                                    |                          |                           |

| 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                                                   | *2437.00    | 87.20 PK                |                |             | 1.28 H             | 280                  | 55.25            | 31.95                    |
| 1                                                   | *2437.00    | 78.20 AV                |                |             | 1.28 H             | 280                  | 46.25            | 31.95                    |
| 2                                                   | 4874.00     | 57.90 PK                | 74.00          | -16.10      | 1.10 H             | 50                   | 19.62            | 38.28                    |
| 2                                                   | 4874.00     | 51.80 AV                | 54.00          | -2.20       | 1.10 H             | 50                   | 13.52            | 38.28                    |
| 3                                                   | 9748.00     | 51.20 PK                | 74.00          | -22.80      | 1.40 H             | 40                   | 12.69            | 38.51                    |
| 3                                                   | 9748.00     | 43.60 AV                | 54.00          | -10.40      | 1.40 H             | 40                   | 5.09             | 38.51                    |

| 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                                                 | *2437.00    | 106.50 PK               |                |             | 1.04 V             | 270                  | 74.55            | 31.95                    |
| 1                                                 | *2437.00    | 97.50 AV                |                |             | 1.04 V             | 270                  | 65.55            | 31.95                    |
| 2                                                 | 4874.00     | 53.20 PK                | 74.00          | -20.80      | 1.06 V             | 60                   | 14.92            | 38.28                    |
| 2                                                 | 4874.00     | 45.80 AV                | 54.00          | -8.20       | 1.06 V             | 60                   | 7.52             | 38.28                    |
| 3                                                 | 9748.00     | 50.20 PK                | 74.00          | -23.80      | 1.20 V             | 10                   | 11.69            | 38.51                    |
| 3                                                 | 9748.00     | 40.80 AV                | 54.00          | -13.20      | 1.20 V             | 10                   | 2.29             | 38.51                    |

- 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.

|                                 |                                               |                          |                           |
|---------------------------------|-----------------------------------------------|--------------------------|---------------------------|
| <b>EUT</b>                      | Indoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>             | WL-565                    |
| <b>CHANNEL</b>                  | 11                                            | <b>TEST MODE</b>         | 2                         |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                | <b>FREQUENCY RANGE</b>   | 1~25 GHz                  |
| <b>MODULATION TYPE</b>          | BPSK                                          | <b>TRANSFER RATE</b>     | 6Mbps                     |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 58% RH, 991 hPa                    | <b>DETECTOR FUNCTION</b> | Peak (PK)<br>Average (AV) |
| <b>TESTED BY</b>                | Match Tsui                                    |                          |                           |

| 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                                                   | *2462.00    | 80.80 PK                |                |             | 1.14 H             | 300                  | 48.78            | 32.02                    |
| 1                                                   | *2462.00    | 71.10 AV                |                |             | 1.14 H             | 300                  | 39.08            | 32.02                    |
| 2                                                   | 2500.00     | 32.80 PK                | 74.00          | -41.20      | 1.14 H             | 300                  | 0.66             | 32.14                    |
| 3                                                   | 4924.00     | 55.80 PK                | 74.00          | -18.20      | 1.10 H             | 50                   | 17.31            | 38.49                    |
| 3                                                   | 4924.00     | 51.80 AV                | 54.00          | -2.20       | 1.10 H             | 50                   | 13.31            | 38.49                    |
| 4                                                   | 9848.00     | 49.80 PK                | 74.00          | -24.20      | 1.10 H             | 60                   | 14.47            | 35.33                    |

| 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                                                 | *2462.00    | 100.85 PK               |                |             | 1.20 V             | 46                   | 68.83            | 32.02                    |
| 1                                                 | *2462.00    | 91.20 AV                |                |             | 1.20 V             | 46                   | 59.18            | 32.02                    |
| 2                                                 | 2500.00     | 52.85 PK                | 74.00          | -21.15      | 1.20 V             | 46                   | 20.71            | 32.14                    |
| 2                                                 | 2500.00     | 43.20 AV                | 54.00          | -10.80      | 1.20 V             | 46                   | 11.06            | 32.14                    |
| 3                                                 | 4924.00     | 51.80 PK                | 74.00          | -22.20      | 1.10 V             | 150                  | 13.31            | 38.49                    |
| 3                                                 | 4924.00     | 44.80 AV                | 54.00          | -9.20       | 1.10 V             | 150                  | 6.31             | 38.49                    |

- 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.

|                                 |                                               |                          |                           |
|---------------------------------|-----------------------------------------------|--------------------------|---------------------------|
| <b>EUT</b>                      | Indoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>             | WL-565                    |
| <b>CHANNEL</b>                  | 1                                             | <b>TEST MODE</b>         | 3                         |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                | <b>FREQUENCY RANGE</b>   | 1~25 GHz                  |
| <b>MODULATION TYPE</b>          | BPSK                                          | <b>TRANSFER RATE</b>     | 6Mbps                     |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 58% RH, 991 hPa                    | <b>DETECTOR FUNCTION</b> | Peak (PK)<br>Average (AV) |
| <b>TESTED BY</b>                | Match Tsui                                    |                          |                           |

| 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                                                   | 2390.00     | 32.54 PK                | 74.00          | -41.46      | 1.00 H             | 273                  | 0.74             | 31.80                    |
| 2                                                   | *2412.00    | 84.57 PK                |                |             | 1.00 H             | 273                  | 52.70            | 31.87                    |
| 2                                                   | *2412.00    | 74.99 AV                |                |             | 1.00 H             | 273                  | 43.12            | 31.87                    |
| 3                                                   | 4824.00     | 57.07 PK                | 74.00          | -16.93      | 1.00 H             | 340                  | 18.96            | 38.11                    |
| 3                                                   | 4824.00     | 52.42 AV                | 54.00          | -1.58       | 1.00 H             | 340                  | 14.31            | 38.11                    |

| 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                                                 | 2375.00     | 53.79 PK                | 74.00          | -20.21      | 1.00 V             | 220                  | 22.04            | 31.75                    |
| 1                                                 | 2375.00     | 42.71 AV                | 54.00          | -11.29      | 1.00 V             | 220                  | 10.96            | 31.75                    |
| 2                                                 | 2390.00     | 52.08 PK                | 74.00          | -21.92      | 1.03 V             | 221                  | 20.28            | 31.80                    |
| 2                                                 | 2390.00     | 42.23 AV                | 54.00          | -11.77      | 1.03 V             | 221                  | 10.43            | 31.80                    |
| 3                                                 | *2412.00    | 104.11 PK               |                |             | 1.03 V             | 221                  | 72.24            | 31.87                    |
| 3                                                 | *2412.00    | 94.26 AV                |                |             | 1.03 V             | 221                  | 62.39            | 31.87                    |
| 4                                                 | 4824.00     | 54.97 PK                | 74.00          | -19.03      | 1.14 V             | 13                   | 16.86            | 38.11                    |
| 4                                                 | 4824.00     | 49.49 AV                | 54.00          | -4.51       | 1.14 V             | 13                   | 11.38            | 38.11                    |

- 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.

|                                 |                                               |                          |                           |
|---------------------------------|-----------------------------------------------|--------------------------|---------------------------|
| <b>EUT</b>                      | Indoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>             | WL-565                    |
| <b>CHANNEL</b>                  | 6                                             | <b>TEST MODE</b>         | 3                         |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                | <b>FREQUENCY RANGE</b>   | 1~25 GHz                  |
| <b>MODULATION TYPE</b>          | BPSK                                          | <b>TRANSFER RATE</b>     | 6Mbps                     |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 58% RH, 991 hPa                    | <b>DETECTOR FUNCTION</b> | Peak (PK)<br>Average (AV) |
| <b>TESTED BY</b>                | Match Tsui                                    |                          |                           |

| 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                                                   | *2437.00    | 90.57 PK                |                |             | 1.38 H             | 321                  | 58.62            | 31.95                    |
| 1                                                   | *2437.00    | 80.24 AV                |                |             | 1.38 H             | 321                  | 48.29            | 31.95                    |
| 2                                                   | 4874.00     | 57.08 PK                | 74.00          | -16.92      | 1.24 H             | 30                   | 18.80            | 38.28                    |
| 2                                                   | 4874.00     | 52.00 AV                | 54.00          | -2.00       | 1.24 H             | 30                   | 13.72            | 38.28                    |
| 3                                                   | 9748.00     | 52.27 PK                | 74.00          | -21.73      | 1.47 H             | 64                   | 13.76            | 38.51                    |
| 3                                                   | 9748.00     | 44.26 AV                | 54.00          | -9.74       | 1.47 H             | 64                   | 5.75             | 38.51                    |

| 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                                                 | *2437.00    | 110.14 PK               |                |             | 1.05 V             | 271                  | 78.19            | 31.95                    |
| 1                                                 | *2437.00    | 100.02 AV               |                |             | 1.05 V             | 271                  | 68.07            | 31.95                    |
| 2                                                 | 4874.00     | 53.24 PK                | 74.00          | -20.76      | 1.07 V             | 65                   | 14.96            | 38.28                    |
| 2                                                 | 4874.00     | 46.28 AV                | 54.00          | -7.72       | 1.07 V             | 65                   | 8.00             | 38.28                    |
| 3                                                 | 9748.00     | 51.04 PK                | 74.00          | -22.96      | 1.24 V             | 28                   | 12.53            | 38.51                    |
| 3                                                 | 9748.00     | 41.58 AV                | 54.00          | -12.42      | 1.24 V             | 28                   | 3.07             | 38.51                    |

- 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.

|                                 |                                               |                          |                           |
|---------------------------------|-----------------------------------------------|--------------------------|---------------------------|
| <b>EUT</b>                      | Indoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>             | WL-565                    |
| <b>CHANNEL</b>                  | 11                                            | <b>TEST MODE</b>         | 3                         |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                | <b>FREQUENCY RANGE</b>   | 1~25 GHz                  |
| <b>MODULATION TYPE</b>          | BPSK                                          | <b>TRANSFER RATE</b>     | 6Mbps                     |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 58% RH, 991 hPa                    | <b>DETECTOR FUNCTION</b> | Peak (PK)<br>Average (AV) |
| <b>TESTED BY</b>                | Match Tsui                                    |                          |                           |

| 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                                                   | *2462.00    | 84.73 PK                |                |             | 1.14 H             | 311                  | 52.71            | 32.02                    |
| 1                                                   | *2462.00    | 75.02 AV                |                |             | 1.14 H             | 311                  | 43.00            | 32.02                    |
| 2                                                   | 2498.00     | 32.22 PK                | 74.00          | -41.78      | 1.14 H             | 311                  | 0.09             | 32.13                    |
| 3                                                   | 4924.00     | 56.40 PK                | 74.00          | -17.60      | 1.15 H             | 16                   | 17.91            | 38.49                    |
| 3                                                   | 4924.00     | 52.40 AV                | 54.00          | -1.60       | 1.15 H             | 16                   | 13.91            | 38.49                    |
| 4                                                   | 9848.00     | 50.02 PK                | 74.00          | -23.98      | 1.16 H             | 71                   | 14.69            | 35.33                    |

| 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                                                 | *2462.00    | 103.31 PK               |                |             | 1.45 V             | 1                    | 71.29            | 32.02                    |
| 1                                                 | *2462.00    | 93.73 AV                |                |             | 1.45 V             | 1                    | 61.71            | 32.02                    |
| 2                                                 | 2498.00     | 50.80 PK                | 74.00          | -23.20      | 1.45 V             | 1                    | 18.67            | 32.13                    |
| 3                                                 | 4924.00     | 52.72 PK                | 74.00          | -21.28      | 1.15 V             | 58                   | 14.23            | 38.49                    |
| 3                                                 | 4924.00     | 45.49 AV                | 54.00          | -8.51       | 1.15 V             | 58                   | 7.00             | 38.49                    |

- 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.

|                                 |                                               |                          |                           |
|---------------------------------|-----------------------------------------------|--------------------------|---------------------------|
| <b>EUT</b>                      | Indoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>             | WL-565                    |
| <b>CHANNEL</b>                  | 1                                             | <b>TEST MODE</b>         | 4                         |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                | <b>FREQUENCY RANGE</b>   | 1~25 GHz                  |
| <b>MODULATION TYPE</b>          | BPSK                                          | <b>TRANSFER RATE</b>     | 6Mbps                     |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 58% RH, 991 hPa                    | <b>DETECTOR FUNCTION</b> | Peak (PK)<br>Average (AV) |
| <b>TESTED BY</b>                | Match Tsui                                    |                          |                           |

| 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                                                   | 1374.00     | 43.58 PK                | 74.00          | -30.42      | 1.00 H             | 55                   | 15.93            | 27.66                    |
| 2                                                   | 2390.00     | 43.09 PK                | 74.00          | -30.91      | 1.00 H             | 125                  | 11.29            | 31.80                    |
| 3                                                   | *2412.00    | 94.47 PK                |                |             | 1.00 H             | 125                  | 62.60            | 31.87                    |
| 3                                                   | *2412.00    | 84.81 AV                |                |             | 1.00 H             | 125                  | 52.94            | 31.87                    |
| 4                                                   | 4824.00     | 56.33 PK                | 74.00          | -17.67      | 1.03 H             | 328                  | 18.22            | 38.11                    |
| 4                                                   | 4824.00     | 52.03 AV                | 54.00          | -1.97       | 1.03 H             | 328                  | 13.92            | 38.11                    |

| 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                                                 | 2376.00     | 61.54 PK                | 74.00          | -12.46      | 1.16 V             | 157                  | 29.78            | 31.76                    |
| 1                                                 | 2376.00     | 49.20 AV                | 54.00          | -4.80       | 1.16 V             | 157                  | 17.44            | 31.76                    |
| 2                                                 | 2390.00     | 62.76 PK                | 74.00          | -11.24      | 1.13 V             | 161                  | 30.96            | 31.80                    |
| 2                                                 | 2390.00     | 53.00 AV                | 54.00          | -1.00       | 1.13 V             | 161                  | 21.20            | 31.80                    |
| 3                                                 | *2412.00    | 114.14 PK               |                |             | 1.14 V             | 160                  | 82.27            | 31.87                    |
| 3                                                 | *2412.00    | 104.38 AV               |                |             | 1.14 V             | 160                  | 72.51            | 31.87                    |
| 4                                                 | 4824.00     | 57.16 PK                | 74.00          | -16.84      | 1.01 V             | 52                   | 19.05            | 38.11                    |
| 4                                                 | 4824.00     | 52.58 AV                | 54.00          | -1.42       | 1.01 V             | 52                   | 14.47            | 38.11                    |
| 5                                                 | 9648.00     | 54.57 PK                | 74.00          | -19.43      | 1.01 V             | 360                  | 12.29            | 42.28                    |
| 5                                                 | 9648.00     | 45.38 AV                | 54.00          | -8.62       | 1.01 V             | 360                  | 3.10             | 42.28                    |

- 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.

|                                 |                                               |                          |                           |
|---------------------------------|-----------------------------------------------|--------------------------|---------------------------|
| <b>EUT</b>                      | Indoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>             | WL-565                    |
| <b>CHANNEL</b>                  | 6                                             | <b>TEST MODE</b>         | 4                         |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                | <b>FREQUENCY RANGE</b>   | 1~25 GHz                  |
| <b>MODULATION TYPE</b>          | BPSK                                          | <b>TRANSFER RATE</b>     | 6Mbps                     |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 58% RH, 991 hPa                    | <b>DETECTOR FUNCTION</b> | Peak (PK)<br>Average (AV) |
| <b>TESTED BY</b>                | Match Tsui                                    |                          |                           |

| 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                                                   | *2437.00    | 100.16 PK               |                |             | 1.00 H             | 124                  | 68.21            | 31.95                    |
| 1                                                   | *2437.00    | 90.55 AV                |                |             | 1.00 H             | 124                  | 58.60            | 31.95                    |
| 2                                                   | 4874.00     | 57.33 PK                | 74.00          | -16.67      | 1.00 H             | 339                  | 19.05            | 38.28                    |
| 2                                                   | 4874.00     | 48.29 AV                | 54.00          | -5.71       | 1.00 H             | 339                  | 10.01            | 38.28                    |

| 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                                                 | 1090.00     | 42.13 PK                | 74.00          | -31.87      | 1.17 V             | 160                  | 15.47            | 26.66                    |
| 2                                                 | 2376.00     | 59.03 PK                | 74.00          | -14.97      | 1.13 V             | 155                  | 27.27            | 31.76                    |
| 2                                                 | 2376.00     | 46.62 AV                | 54.00          | -7.38       | 1.13 V             | 155                  | 14.86            | 31.76                    |
| 3                                                 | *2437.00    | 119.99 PK               |                |             | 1.11 V             | 157                  | 88.04            | 31.95                    |
| 3                                                 | *2437.00    | 110.38 AV               |                |             | 1.11 V             | 157                  | 78.43            | 31.95                    |
| 4                                                 | 4874.00     | 57.73 PK                | 74.00          | -16.27      | 1.00 V             | 85                   | 19.45            | 38.28                    |
| 4                                                 | 4874.00     | 52.58 AV                | 54.00          | -1.42       | 1.00 V             | 85                   | 14.30            | 38.28                    |

- 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.

|                                 |                                               |                          |                           |
|---------------------------------|-----------------------------------------------|--------------------------|---------------------------|
| <b>EUT</b>                      | Indoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>             | WL-565                    |
| <b>CHANNEL</b>                  | 11                                            | <b>TEST MODE</b>         | 4                         |
| <b>INPUT POWER (SYSTEM)</b>     | 120 Vac, 60 Hz                                | <b>FREQUENCY RANGE</b>   | 1~25 GHz                  |
| <b>MODULATION TYPE</b>          | BPSK                                          | <b>TRANSFER RATE</b>     | 6Mbps                     |
| <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 58% RH, 991 hPa                    | <b>DETECTOR FUNCTION</b> | Peak (PK)<br>Average (AV) |
| <b>TESTED BY</b>                | Match Tsui                                    |                          |                           |

| 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                                                   | *2462.00    | 93.07 PK                |                |             | 1.14 H             | 129                  | 61.05            | 32.02                    |
| 1                                                   | *2462.00    | 83.35 AV                |                |             | 1.14 H             | 129                  | 51.33            | 32.02                    |
| 2                                                   | 2483.50     | 39.39 PK                | 74.00          | -34.61      | 1.14 H             | 129                  | 7.30             | 32.09                    |
| 3                                                   | 4924.00     | 53.53 PK                | 74.00          | -20.47      | 1.07 H             | 50                   | 15.04            | 38.49                    |
| 3                                                   | 4924.00     | 48.21 AV                | 54.00          | -5.79       | 1.07 H             | 50                   | 9.72             | 38.49                    |

| 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                                                 | *2462.00    | 113.31 PK               |                |             | 1.10 V             | 158                  | 81.29            | 32.02                    |
| 1                                                 | *2462.00    | 103.53 AV               |                |             | 1.10 V             | 158                  | 71.51            | 32.02                    |
| 2                                                 | 2483.50     | 59.63 PK                | 74.00          | -14.37      | 1.25 V             | 87                   | 27.54            | 32.09                    |
| 2                                                 | 2483.50     | 49.85 AV                | 54.00          | -4.15       | 1.25 V             | 87                   | 17.76            | 32.09                    |
| 3                                                 | 2498.00     | 58.78 PK                | 74.00          | -15.22      | 1.09 V             | 163                  | 26.65            | 32.13                    |
| 3                                                 | 2498.00     | 47.54 AV                | 54.00          | -6.46       | 1.09 V             | 163                  | 15.41            | 32.13                    |
| 4                                                 | 4924.00     | 56.43 PK                | 74.00          | -17.57      | 1.25 V             | 87                   | 17.94            | 38.49                    |
| 4                                                 | 4924.00     | 52.39 AV                | 54.00          | -1.61       | 1.25 V             | 87                   | 13.90            | 38.49                    |

- 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.

### 4.3 6dB BANDWIDTH MEASUREMENT

#### 4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

#### 4.3.2 TEST INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|----------------------------|-----------|------------|------------------|
| SPECTRUM ANALYZER          | FSEK30    | 100049     | Aug. 12, 2005    |

**NOTE:**

The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

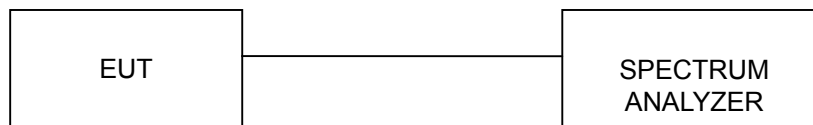
#### 4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 100kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

#### 4.3.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.3.5 TEST SETUP



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

#### 4.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

## 4.3.7 TEST RESULTS

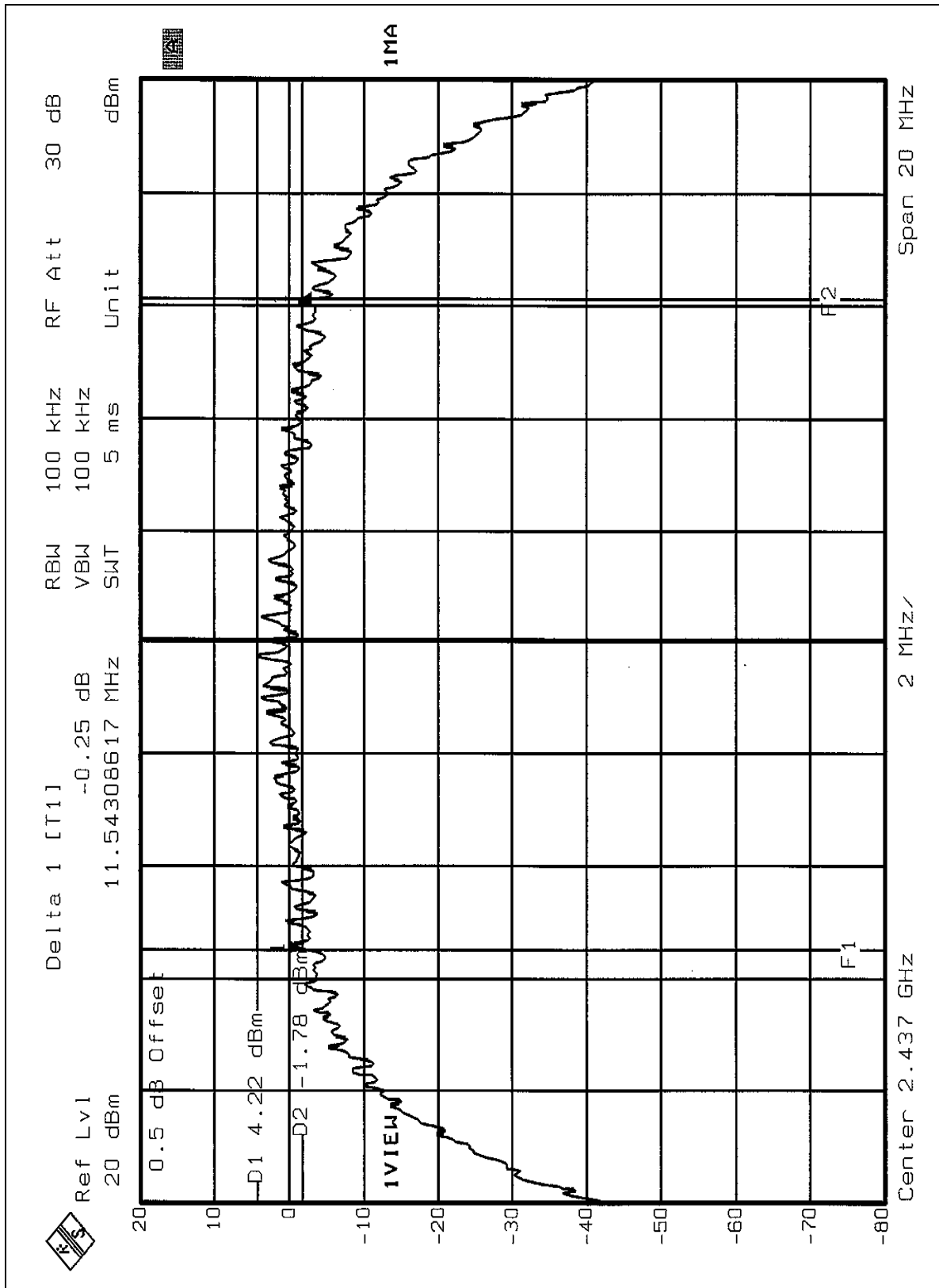
**802.11b DSSS modulation**

|                                 |                                                                                                           |                                     |                               |
|---------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------|
| <b>EUT</b>                      | Indoor 11g 54Mbps<br>Building to Building<br>Bridge, Outdoor 11g<br>54Mbps Building to<br>Building Bridge | <b>MODEL</b>                        | WL-565, WL-565B               |
| <b>INPUT POWER<br/>(SYSTEM)</b> | 120 Vac, 60 Hz                                                                                            | <b>ENVIRONMENTAL<br/>CONDITIONS</b> | 25 deg. C, 64% RH,<br>991 hPa |
| <b>MODULATION<br/>TYPE</b>      | CCK                                                                                                       | <b>TRANSFER RATE</b>                | 11Mbps                        |
| <b>TESTED BY</b>                | Steven Lu                                                                                                 |                                     |                               |

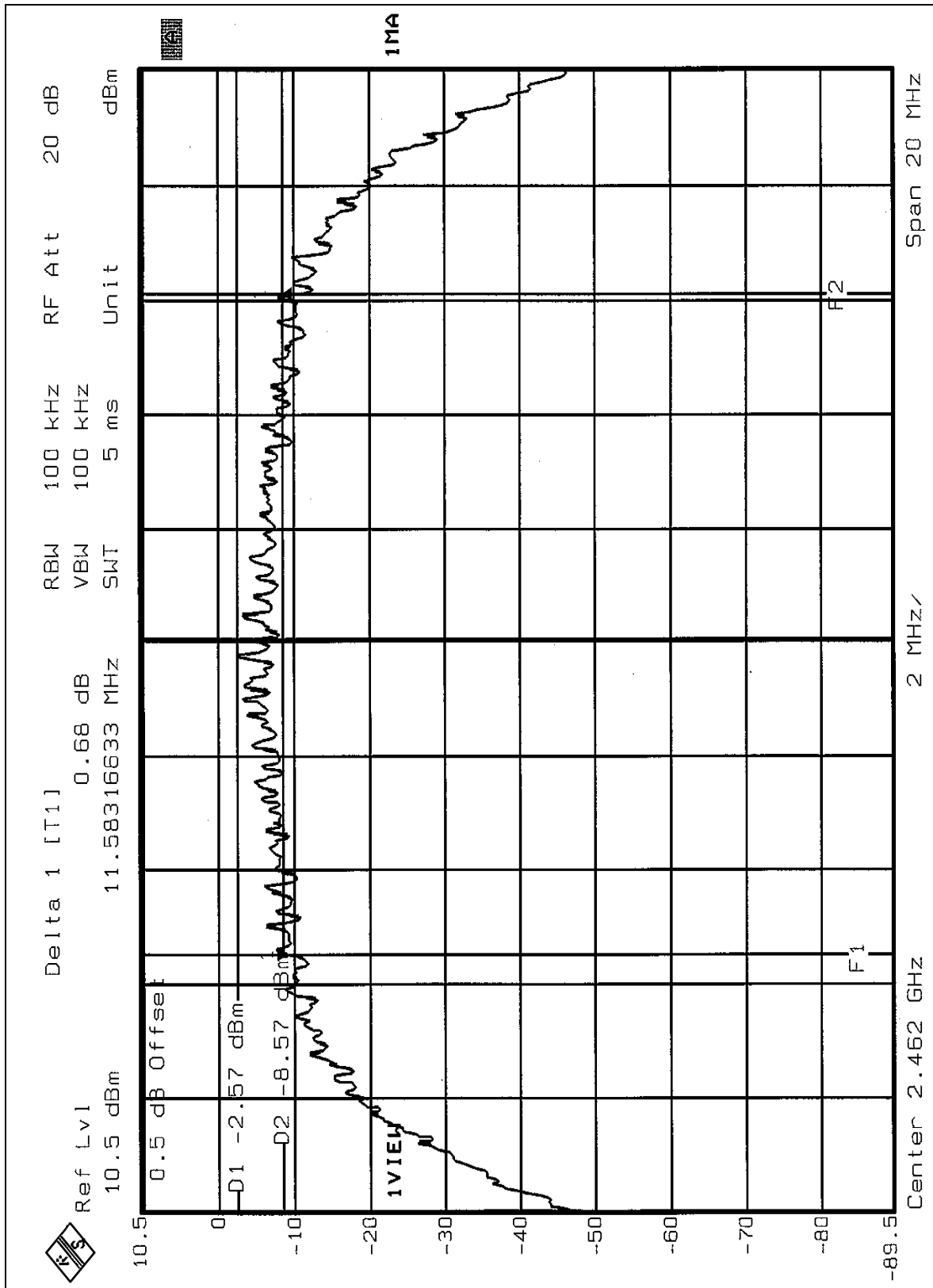
| CHANNEL | CHANNEL<br>FREQUENCY<br>(MHz) | 6dB BANDWIDTH<br>(MHz) | MINIMUM<br>LIMIT<br>(MHz) | PASS/FAIL |
|---------|-------------------------------|------------------------|---------------------------|-----------|
| 1       | 2412                          | 11.54                  | 0.5                       | PASS      |
| 6       | 2437                          | 11.54                  | 0.5                       | PASS      |
| 11      | 2462                          | 11.58                  | 0.5                       | PASS      |



CH6



## CH11

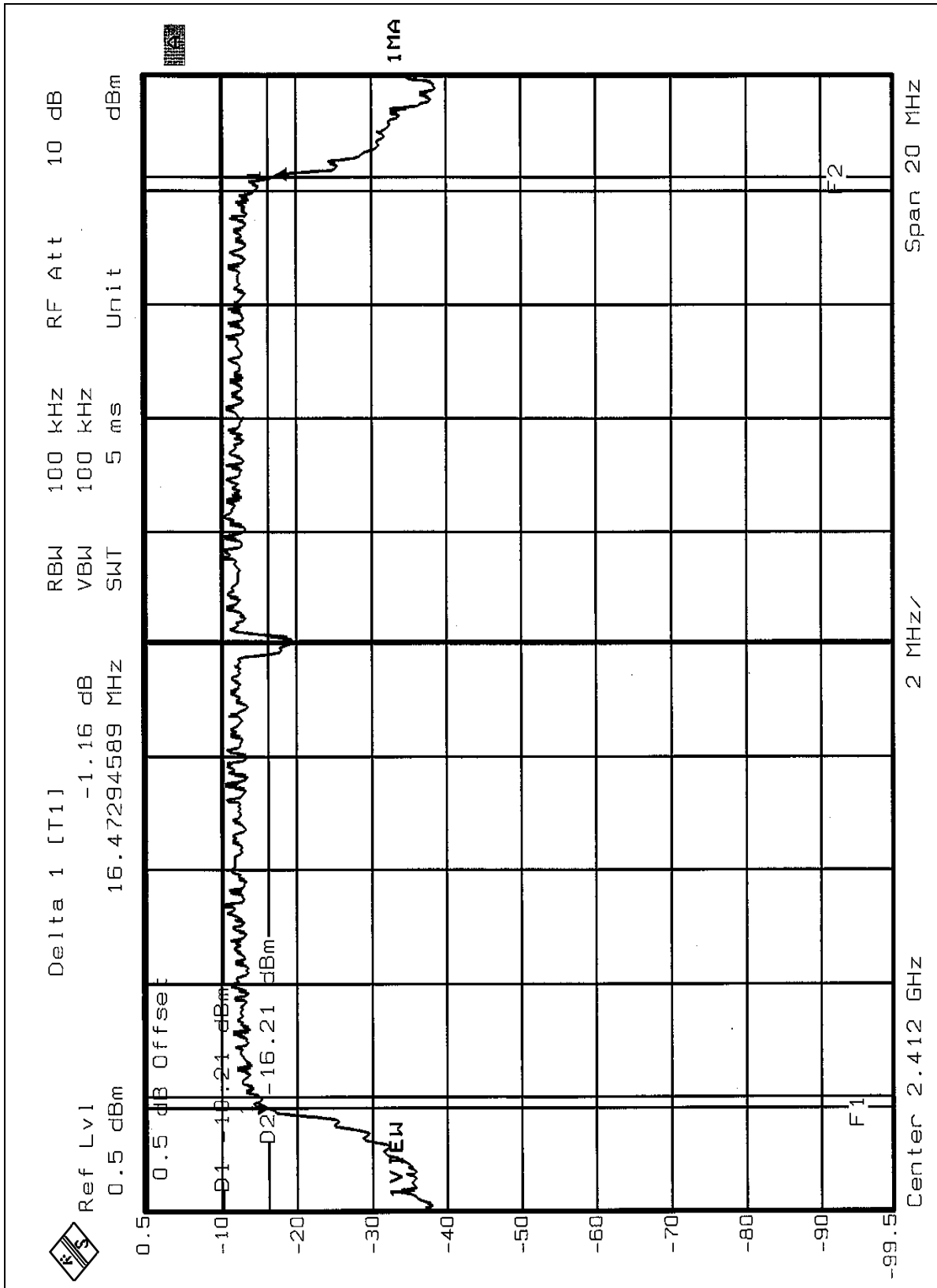


**802.11g OFDM modulation**

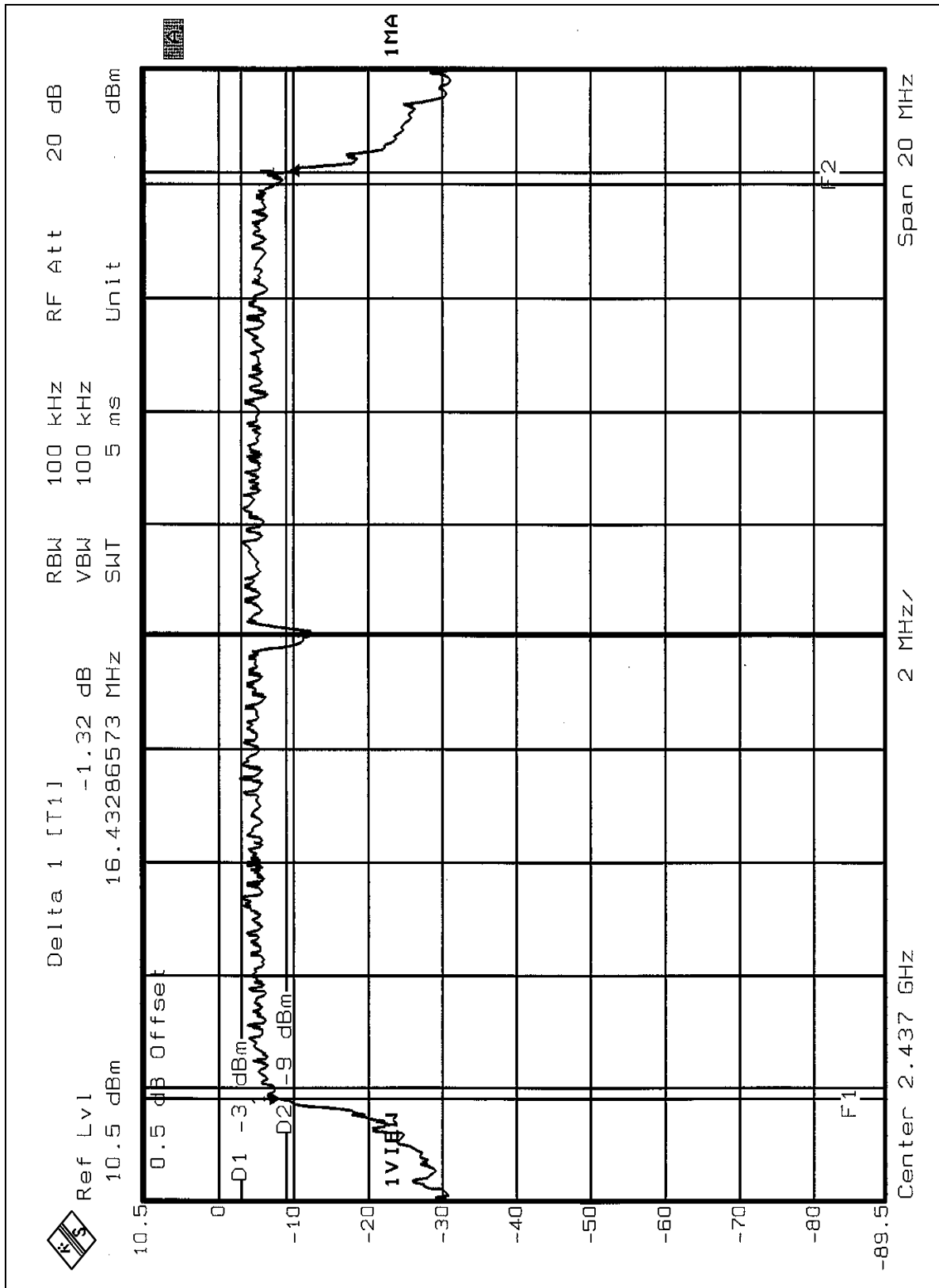
|                             |                                                                                               |                                 |                            |
|-----------------------------|-----------------------------------------------------------------------------------------------|---------------------------------|----------------------------|
| <b>EUT</b>                  | Indoor 11g 54Mbps Building to Building Bridge, Outdoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>                    | WL-565, WL-565B            |
| <b>INPUT POWER (SYSTEM)</b> | 120 Vac, 60 Hz                                                                                | <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 64% RH, 991 hPa |
| <b>MODULATION TYPE</b>      | BPSK                                                                                          | <b>TRANSFER RATE</b>            | 6Mbps                      |
| <b>TESTED BY</b>            | Steven Lu                                                                                     |                                 |                            |

| <b>CHANNEL</b> | <b>CHANNEL FREQUENCY (MHz)</b> | <b>6 dB BANDWIDTH (MHz)</b> | <b>MINIMUM LIMIT (MHz)</b> | <b>PASS/FAIL</b> |
|----------------|--------------------------------|-----------------------------|----------------------------|------------------|
| 1              | 2412                           | 16.47                       | 0.5                        | PASS             |
| 6              | 2437                           | 16.43                       | 0.5                        | PASS             |
| 11             | 2462                           | 16.43                       | 0.5                        | PASS             |

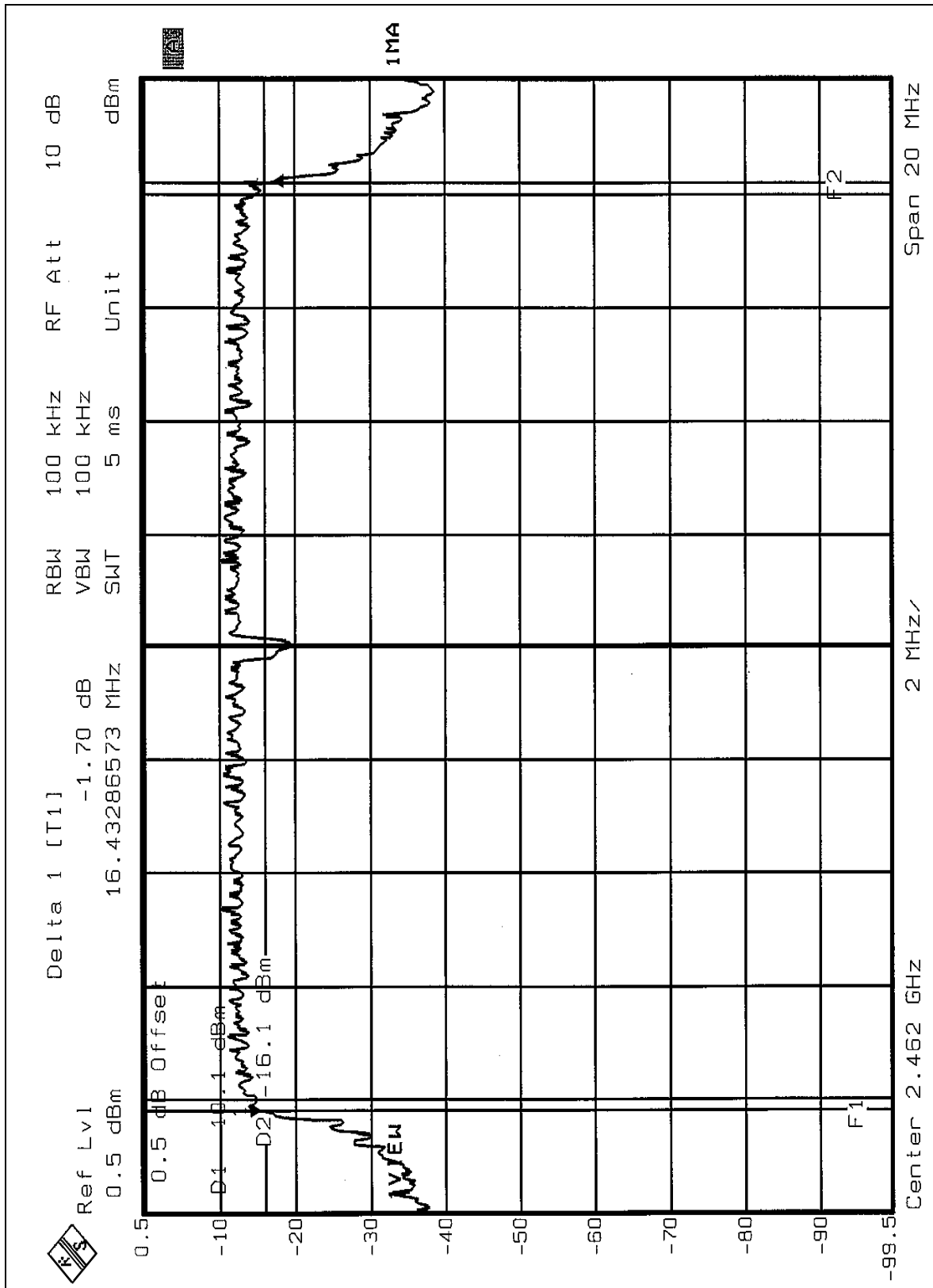
CH1



CH6



## CH11



#### 4.4 MAXIMUM PEAK OUTPUT POWER

##### 4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

##### 4.4.2 TEST INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|----------------------------|-----------|------------|------------------|
| R&S SPECTRUM ANALYZER      | FSEK30    | 100049     | Aug. 12, 2005    |
| AGILENT SIGNAL GENERATOR   | E8257C    | MY43320668 | Dec. 31, 2004    |
| TEKTRONIX OSCILLOSCOPE     | TDS 220   | C019167    | Feb. 1, 2005     |
| NARDA DETECTOR             | 4503A     | FSCM99899  | NA               |

**NOTE:**

The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

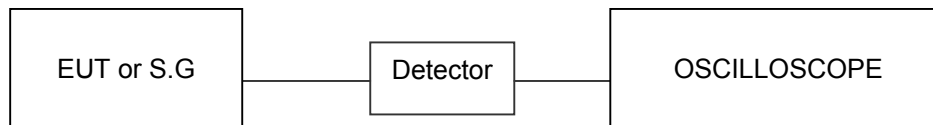
#### 4.4.3 TEST PROCEDURES

1. A detector was used on the output port of the EUT. An oscilloscope was used to read the response of the detector.
2. Replaced the EUT by the signal generator. The center frequency of the S.G. was adjusted to the center frequency of the measured channel.
3. Adjusted the power to have the same reading on oscilloscope. Record the power level.

#### 4.4.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.4.5 TEST SETUP



#### 4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6

## 4.4.7 TEST RESULTS

**802.11b DSSS modulation**

|                                 |                                                                                                           |                                     |                               |
|---------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------|
| <b>EUT</b>                      | Indoor 11g 54Mbps<br>Building to Building<br>Bridge, Outdoor 11g<br>54Mbps Building to<br>Building Bridge | <b>MODEL</b>                        | WL-565, WL-565B               |
| <b>INPUT POWER<br/>(SYSTEM)</b> | 120 Vac, 60 Hz                                                                                            | <b>ENVIRONMENTAL<br/>CONDITIONS</b> | 25 deg. C, 64% RH,<br>991 hPa |
| <b>MODULATION<br/>TYPE</b>      | CCK                                                                                                       | <b>TRANSFER RATE</b>                | 11Mbps                        |
| <b>TESTED BY</b>                | Steven Lu                                                                                                 |                                     |                               |

| CHANNEL | CHANNEL<br>FREQUENCY<br>(MHz) | PEAK POWER<br>OUTPUT<br>(mW) | PEAK<br>POWER<br>OUTPUT<br>(dBm) | PEAK<br>POWER<br>LIMIT<br>(dBm) | PASS/FAIL |
|---------|-------------------------------|------------------------------|----------------------------------|---------------------------------|-----------|
| 1       | 2412                          | 12.62                        | 11.01                            | 18                              | PASS      |
| 6       | 2437                          | 50.12                        | 17.00                            | 18                              | PASS      |
| 11      | 2462                          | 12.65                        | 11.02                            | 18                              | PASS      |

**Note:** According to 15.247 (b) (4), the maximum antenna gain 18.0dBi is higher than 6dBi, so the limit of peak power should be reduced by 12dBi.

**802.11g OFDM modulation**

|                             |                                                                                               |                                 |                            |
|-----------------------------|-----------------------------------------------------------------------------------------------|---------------------------------|----------------------------|
| <b>EUT</b>                  | Indoor 11g 54Mbps Building to Building Bridge, Outdoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>                    | WL-565, WL-565B            |
| <b>INPUT POWER (SYSTEM)</b> | 120 Vac, 60 Hz                                                                                | <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 64% RH, 991 hPa |
| <b>MODULATION TYPE</b>      | BPSK                                                                                          | <b>TRANSFER RATE</b>            | 6Mbps                      |
| <b>TESTED BY</b>            | Steven Lu                                                                                     |                                 |                            |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (mW) | PEAK POWER OUTPUT (dBm) | PEAK POWER LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|------------------------|-------------------------|------------------------|-----------|
| 1       | 2412                    | 7.94                   | 9.00                    | 18                     | PASS      |
| 6       | 2437                    | 50.12                  | 17.00                   | 18                     | PASS      |
| 11      | 2462                    | 7.98                   | 9.02                    | 18                     | PASS      |

**Note:** According to 15.247(b) (4), the maximum antenna gain 18.0dBi is higher than 6dBi, so the limit of peak power should be reduced by 12dBi.

#### 4.5 POWER SPECTRAL DENSITY MEASUREMENT

##### 4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

##### 4.5.2 TEST INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|----------------------------|-----------|------------|------------------|
| SPECTRUM ANALYZER          | FSEK30    | 100049     | Aug. 12, 2005    |

**NOTE:**

The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

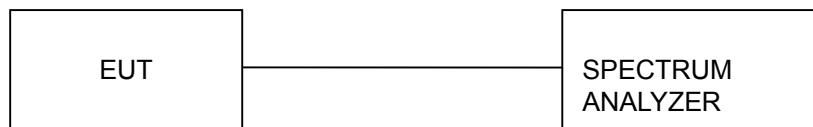
#### 4.5.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3 kHz RBW and 30 kHz VBW, set sweep time=span/3kHz. The power spectral density was measured and recorded. The sweep time is allowed to be longer than span/3kHz for a full response of the mixer in the spectrum analyzer.

#### 4.5.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.5.5 TEST SETUP



#### 4.5.6 EUT OPERATING CONDITIONS

Same as 4.3.6

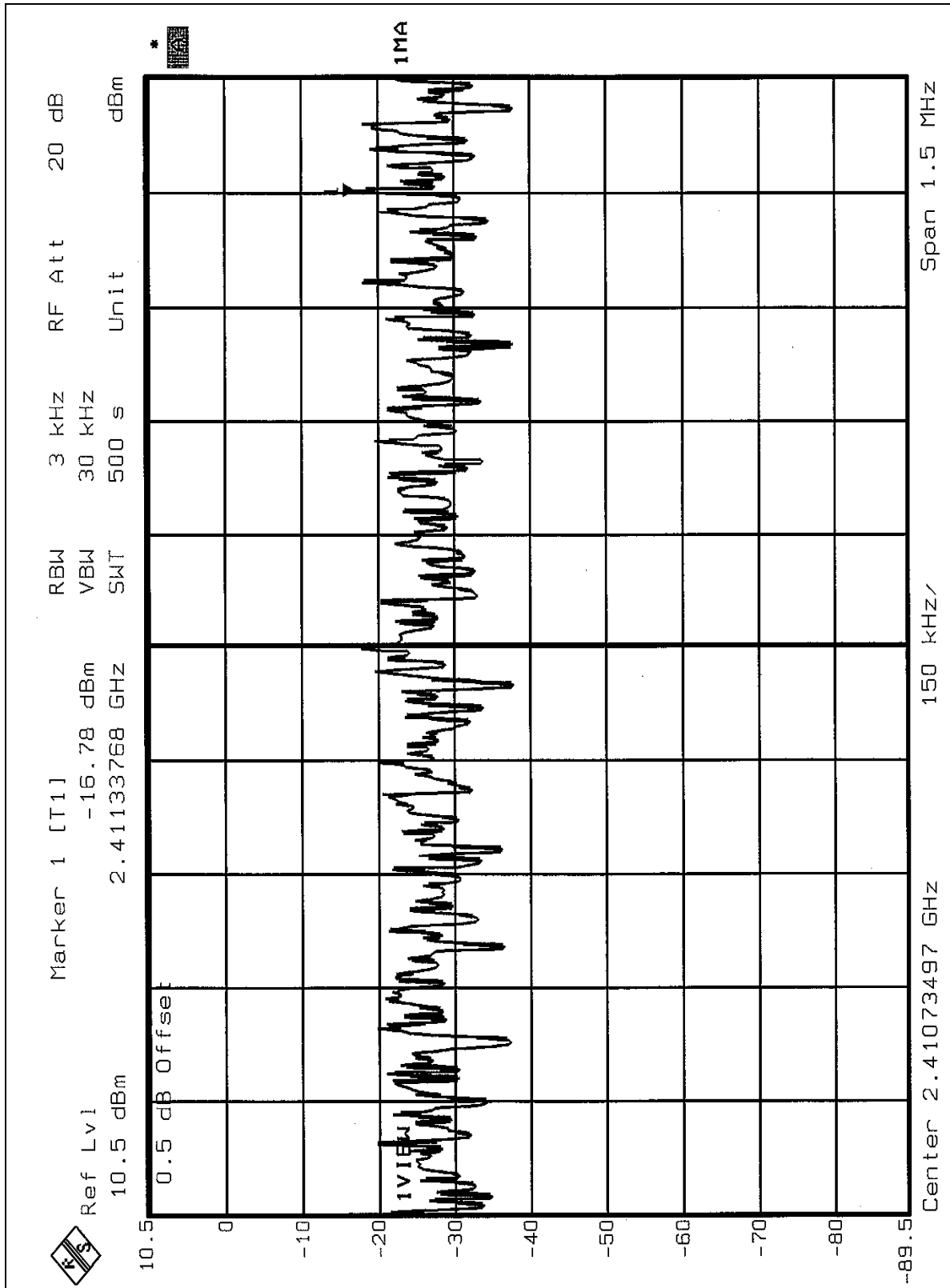
## 4.5.7 TEST RESULTS

**802.11b DSSS modulation**

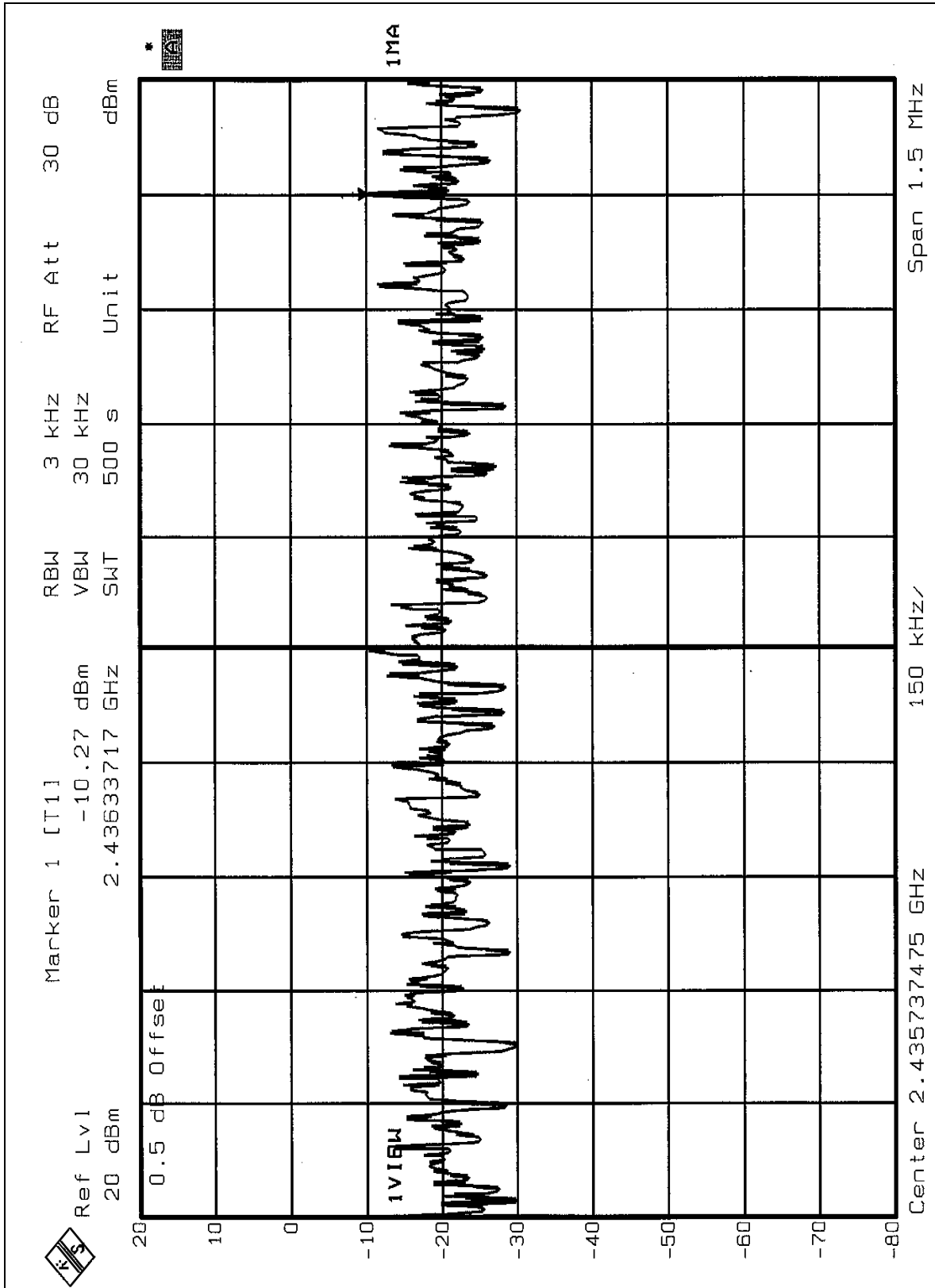
|                             |                                                                                               |                                 |                            |
|-----------------------------|-----------------------------------------------------------------------------------------------|---------------------------------|----------------------------|
| <b>EUT</b>                  | Indoor 11g 54Mbps Building to Building Bridge, Outdoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>                    | WL-565, WL-565B            |
| <b>INPUT POWER (SYSTEM)</b> | 120 Vac, 60 Hz                                                                                | <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 64% RH, 991 hPa |
| <b>MODULATION TYPE</b>      | CCK                                                                                           | <b>TRANSFER RATE</b>            | 11Mbps                     |
| <b>TESTED BY</b>            | Steven Lu                                                                                     |                                 |                            |

| <b>CHANNEL NUMBER</b> | <b>CHANNEL FREQUENCY (MHz )</b> | <b>RF POWER LEVEL IN 3kHz BW (dBm)</b> | <b>MAXIMUM LIMIT (dBm)</b> | <b>PASS/FAIL</b> |
|-----------------------|---------------------------------|----------------------------------------|----------------------------|------------------|
| 1                     | 2412                            | -16.78                                 | 8                          | PASS             |
| 6                     | 2437                            | -10.27                                 | 8                          | PASS             |
| 11                    | 2462                            | -16.65                                 | 8                          | PASS             |

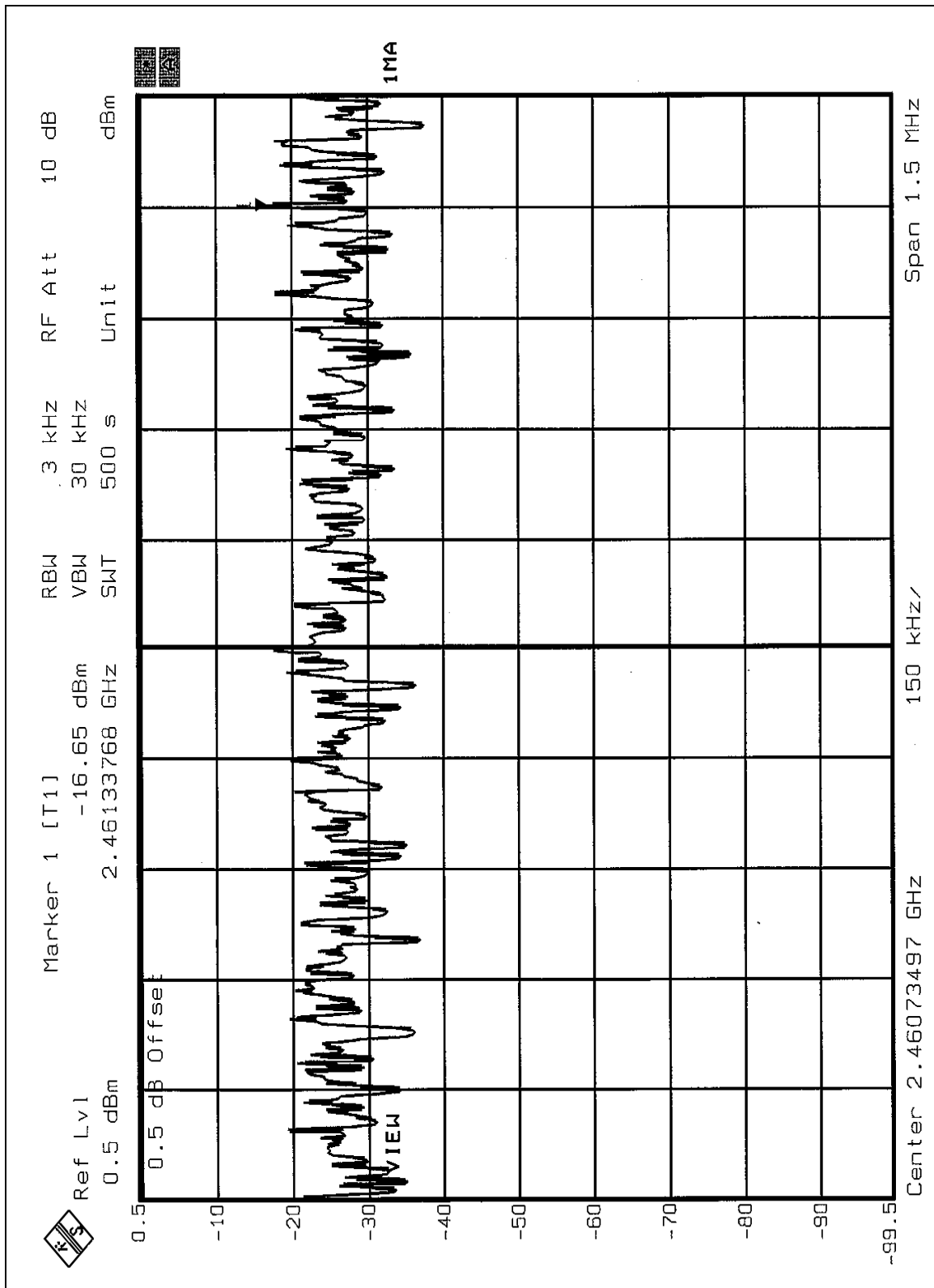
CH1



CH6



# CH11

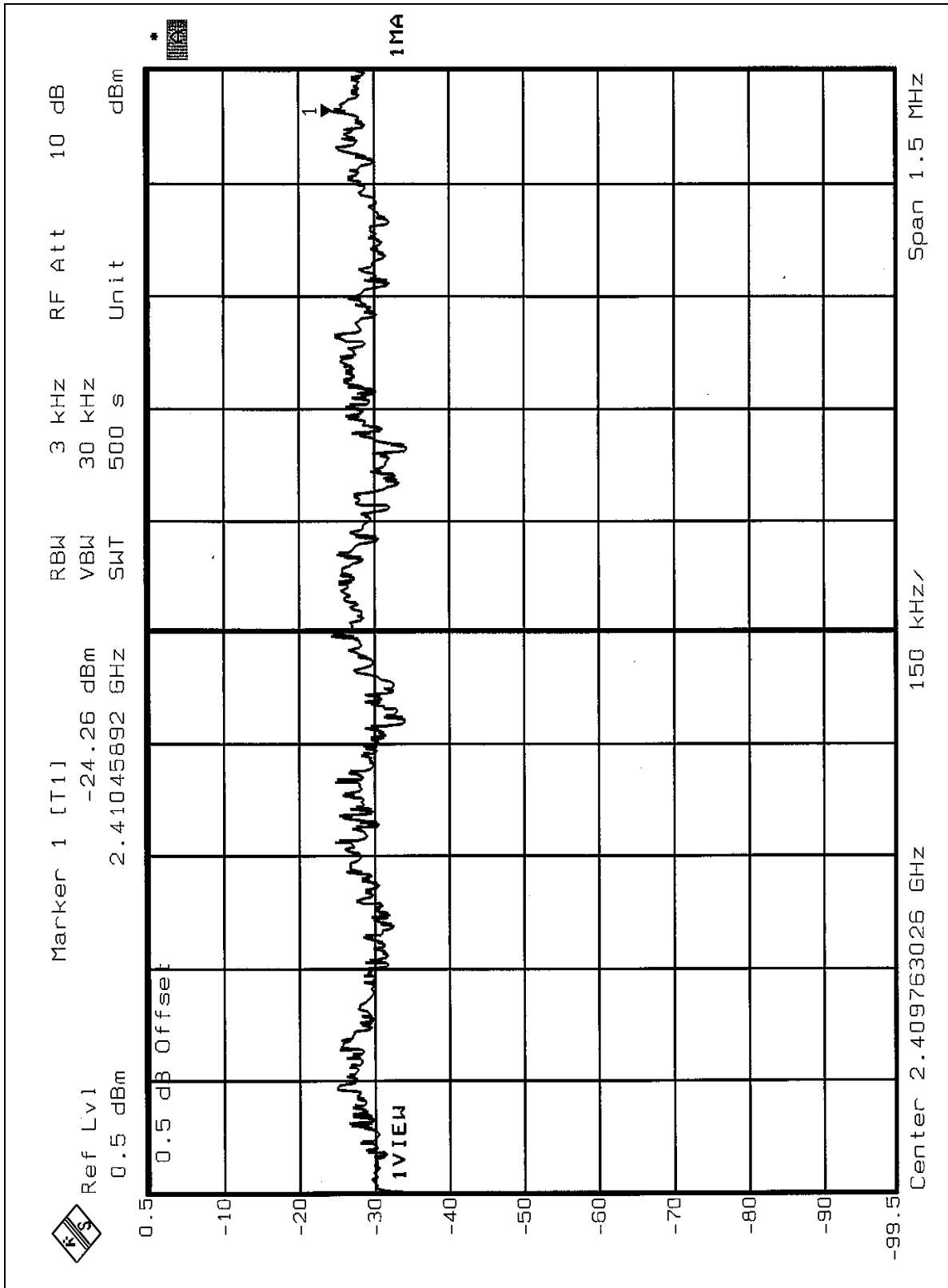


**802.11g OFDM modulation**

|                             |                                                                                               |                                 |                            |
|-----------------------------|-----------------------------------------------------------------------------------------------|---------------------------------|----------------------------|
| <b>EUT</b>                  | Indoor 11g 54Mbps Building to Building Bridge, Outdoor 11g 54Mbps Building to Building Bridge | <b>MODEL</b>                    | WL-565, WL-565B            |
| <b>INPUT POWER (SYSTEM)</b> | 120 Vac, 60 Hz                                                                                | <b>ENVIRONMENTAL CONDITIONS</b> | 25 deg. C, 64% RH, 991 hPa |
| <b>MODULATION TYPE</b>      | BPSK                                                                                          | <b>TRANSFER RATE</b>            | 6Mbps                      |
| <b>TESTED BY</b>            | Steven Lu                                                                                     |                                 |                            |

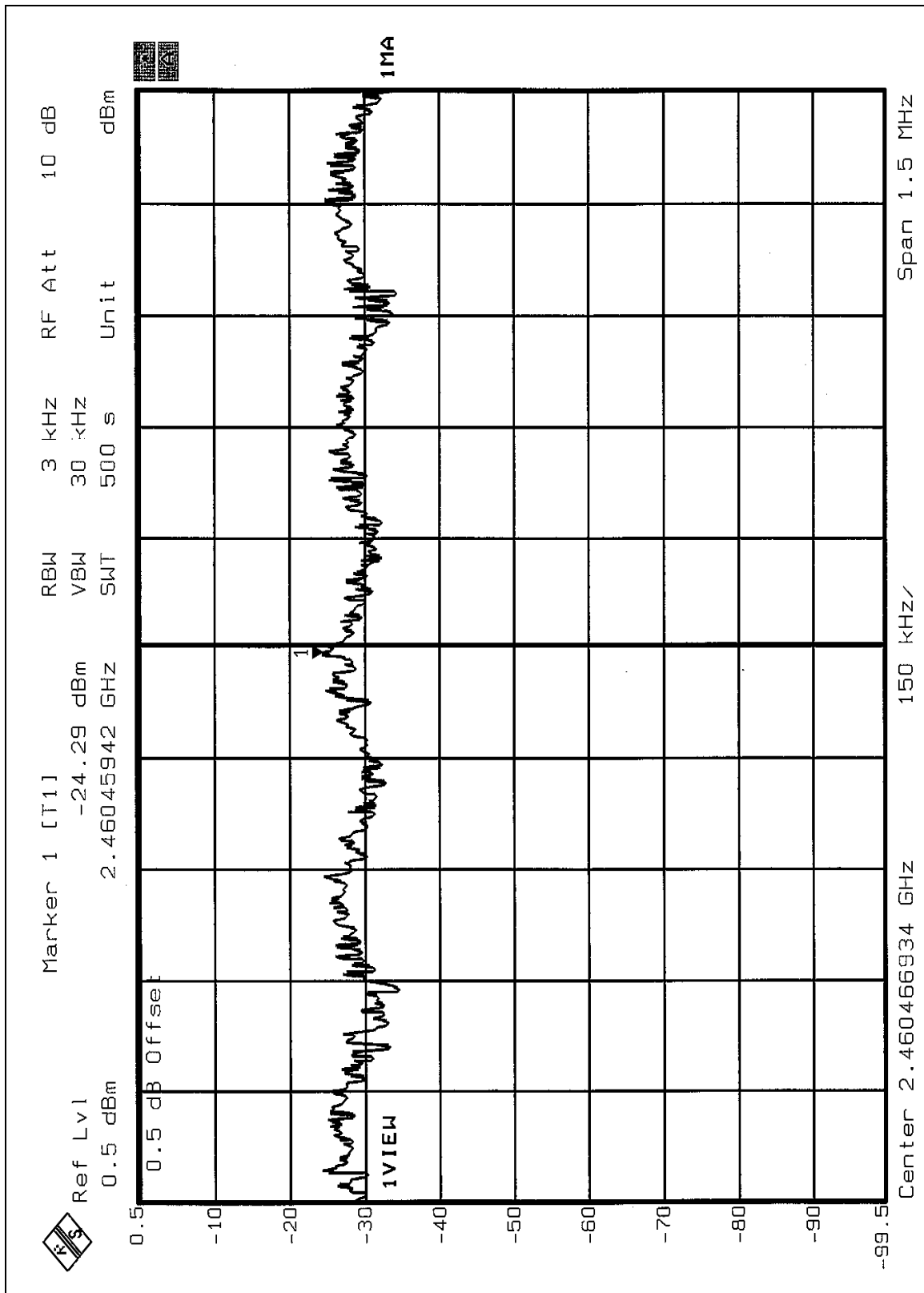
| <b>CHANNEL NUMBER</b> | <b>CHANNEL FREQUENCY (MHz )</b> | <b>RF POWER LEVEL IN 3KHz BW (dBm)</b> | <b>MAXIMUM LIMIT (dBm)</b> | <b>PASS/FAIL</b> |
|-----------------------|---------------------------------|----------------------------------------|----------------------------|------------------|
| 1                     | 2412                            | -24.26                                 | 8                          | PASS             |
| 6                     | 2437                            | -16.82                                 | 8                          | PASS             |
| 11                    | 2462                            | -24.29                                 | 8                          | PASS             |

CH1



[illegible]

## CH11



## 4.6 BAND EDGES MEASUREMENT

### 4.6.1 LIMITS OF BAND EDGES MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

### 4.6.2 TEST INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|----------------------------|-----------|------------|------------------|
| SPECTRUM ANALYZER          | FSEK30    | 100049     | Aug. 12, 2005    |

**NOTE:**

The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

### 4.6.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz and 100 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots (Peak RBW=VBW=100kHz ; Average RBW=1MHz, VBW=1kHz) are attached on the following pages.

### 4.6.4 DEVIATION FROM TEST STANDARD

No deviation

### 4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6

#### 4.6.6 TEST RESULTS

The spectrum plots are attached on the following 12 pages. D2 line indicates the highest level, D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(C).

#### 4.6.7 TEST RESULTS

##### **802.11b DSSS modulation**

**NOTE 1:** The band edge emission plot on page 99 show 52.64dBc delta between carrier maximum power and local maximum emission in restrict band (2.3888GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 118.11dBuV/m (Peak), so the maximum field strength in restrict band is  $118.11 - 52.64 = 65.47$  BuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 100 show 58.08dBc delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 110.30dBuV/m (Average), so the maximum field strength in restrict band is  $110.30 - 58.08 = 52.22$  dBuV/m which is under 54dBuV/m limit.

**NOTE 2:** The band edge emission plot on the page 102 show 56.53dBc delta between carrier maximum power and local maximum emission in restrict band (2.4875GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 117.67dBuV/m (Peak), so the maximum field strength in restrict band is  $117.67 - 56.53 = 61.14$  dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the page 103 show 58.02dBc delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 109.85dBuV/m (Average), so the maximum field strength in restrict band is  $109.85 - 58.02 = 51.83$  dBuV/m which is under 54dBuV/m limit.

## 802.11g OFDM modulation

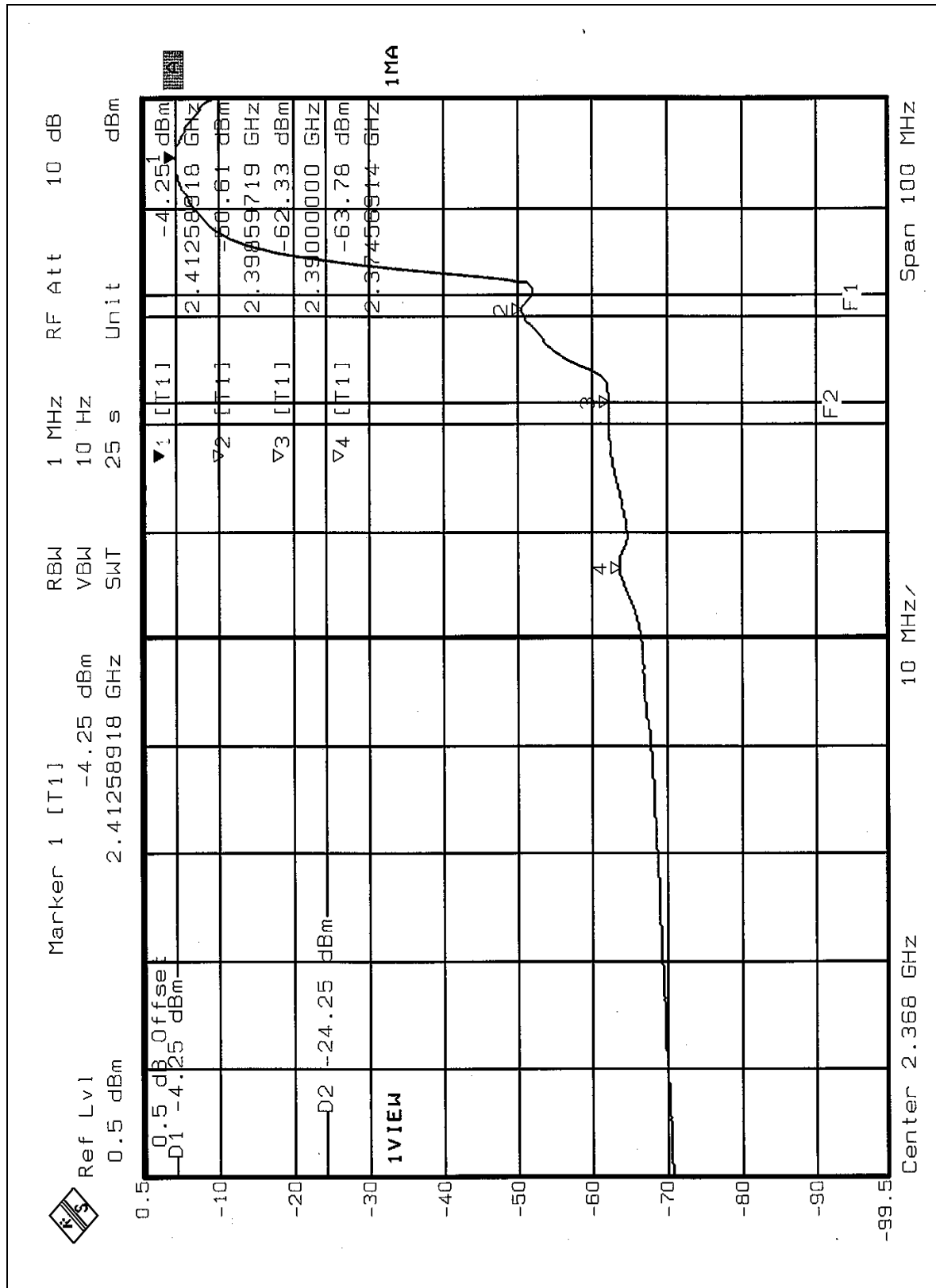
**NOTE 1:** The band edge emission plot on page 105 show 49.30dBc delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 115.25dBuV/m (Peak), so the maximum field strength in restrict band is  $115.25 - 49.30 = 65.95$  dBuV/m which is under 74dBuV/m limit.

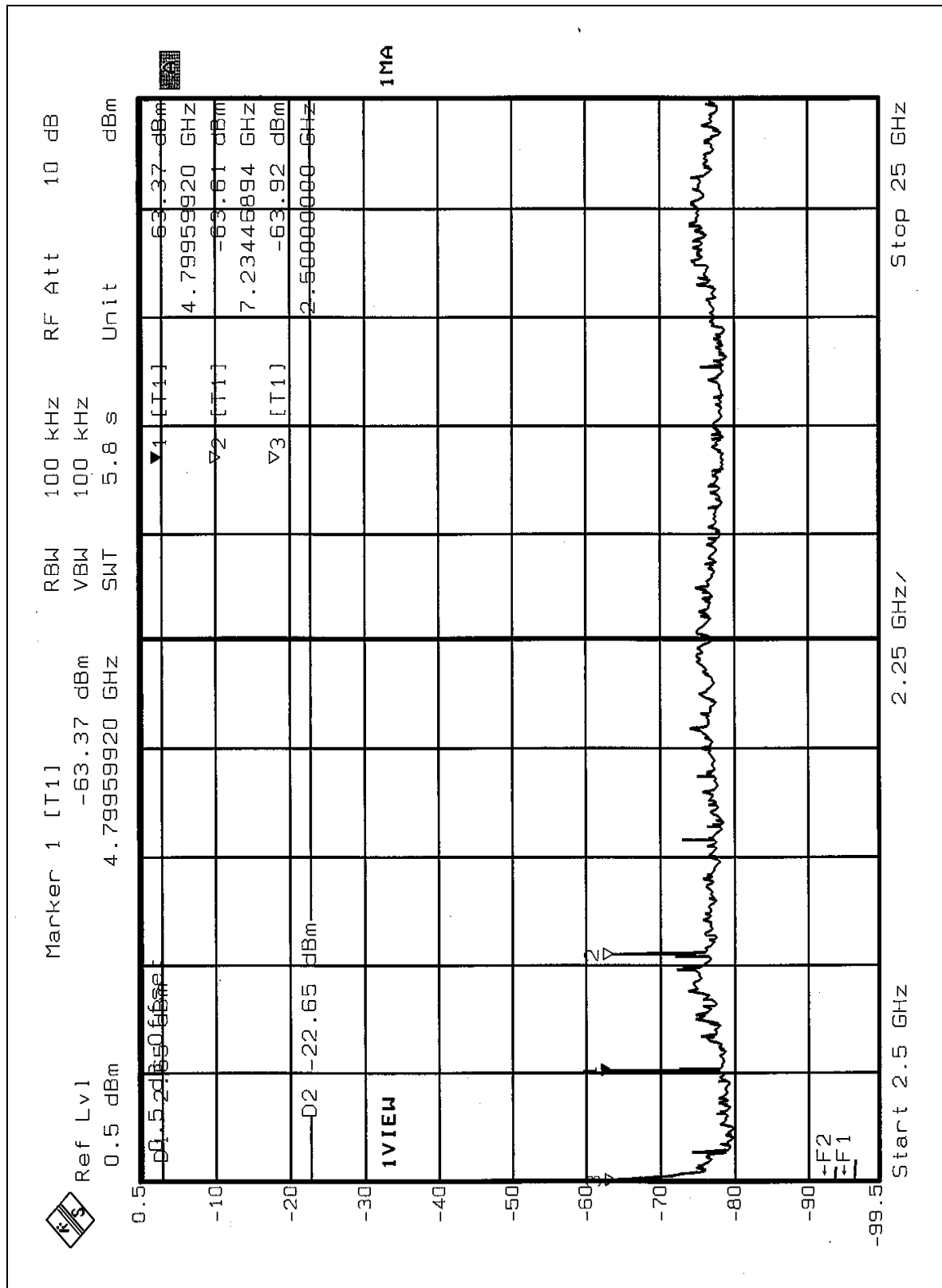
The band edge emission plot on page 106 show 52.03dBc delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 105.46dBuV/m (Average), so the maximum field strength in restrict band is  $105.46 - 52.03 = 53.43$  dBuV/m which is under 54dBuV/m limit.

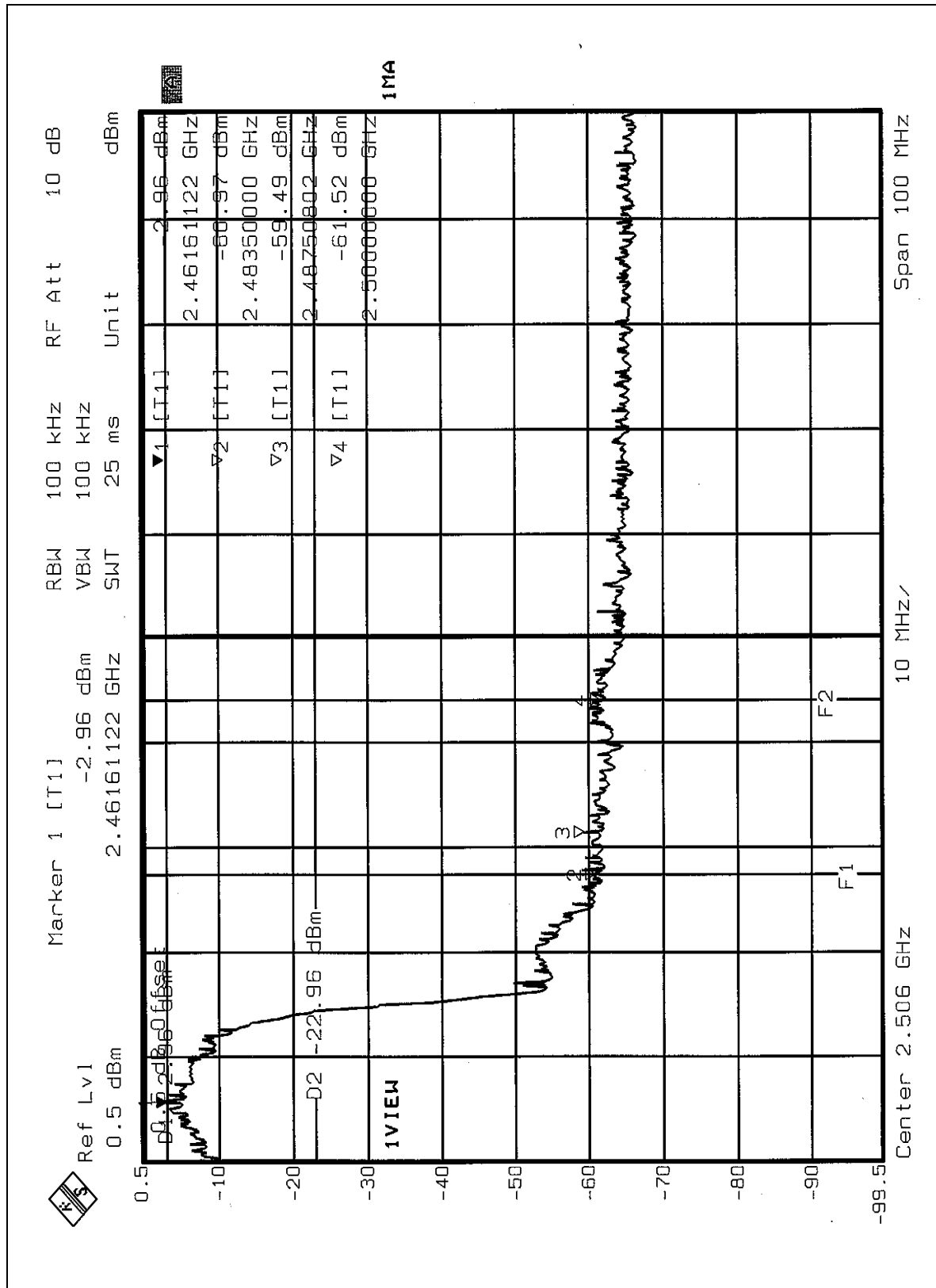
**NOTE 2:** The band edge emission plot on the page 108 show 49.96dBc delta between carrier maximum power and local maximum emission in restrict band (2.4985GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 113.53dBuV/m (Peak), so the maximum field strength in restrict band is  $113.53 - 49.96 = 63.57$  dBuV/m which is under 74dBuV/m limit.

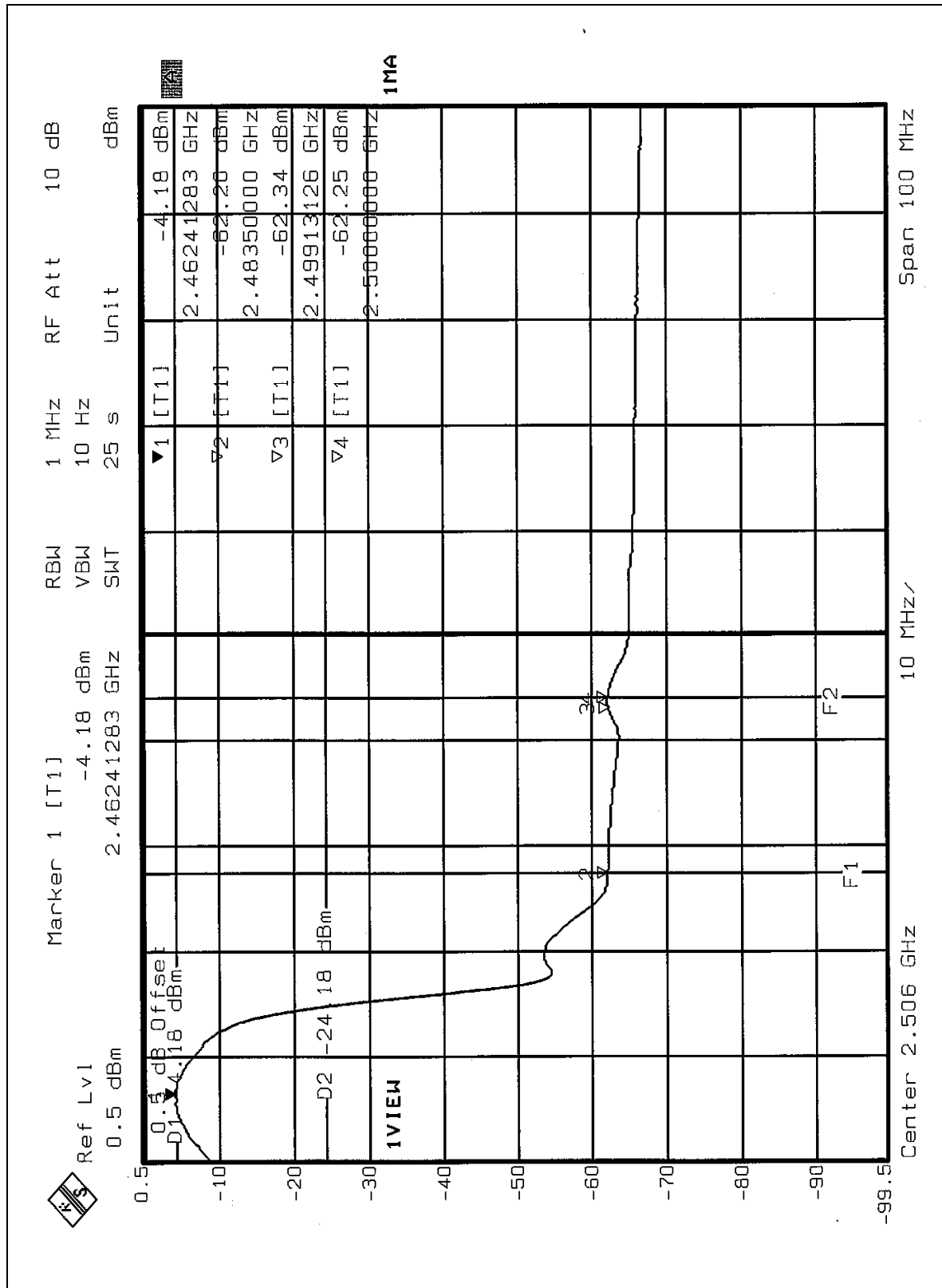
The band edge emission plot on the page 109 show 52.51dBc delta between carrier maximum power and local maximum emission in restrict band (2.4983GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 103.91dBuV/m (Average), so the maximum field strength in restrict band is  $103.91 - 52.51 = 51.40$  dBuV/m which is under 54dBuV/m limit.

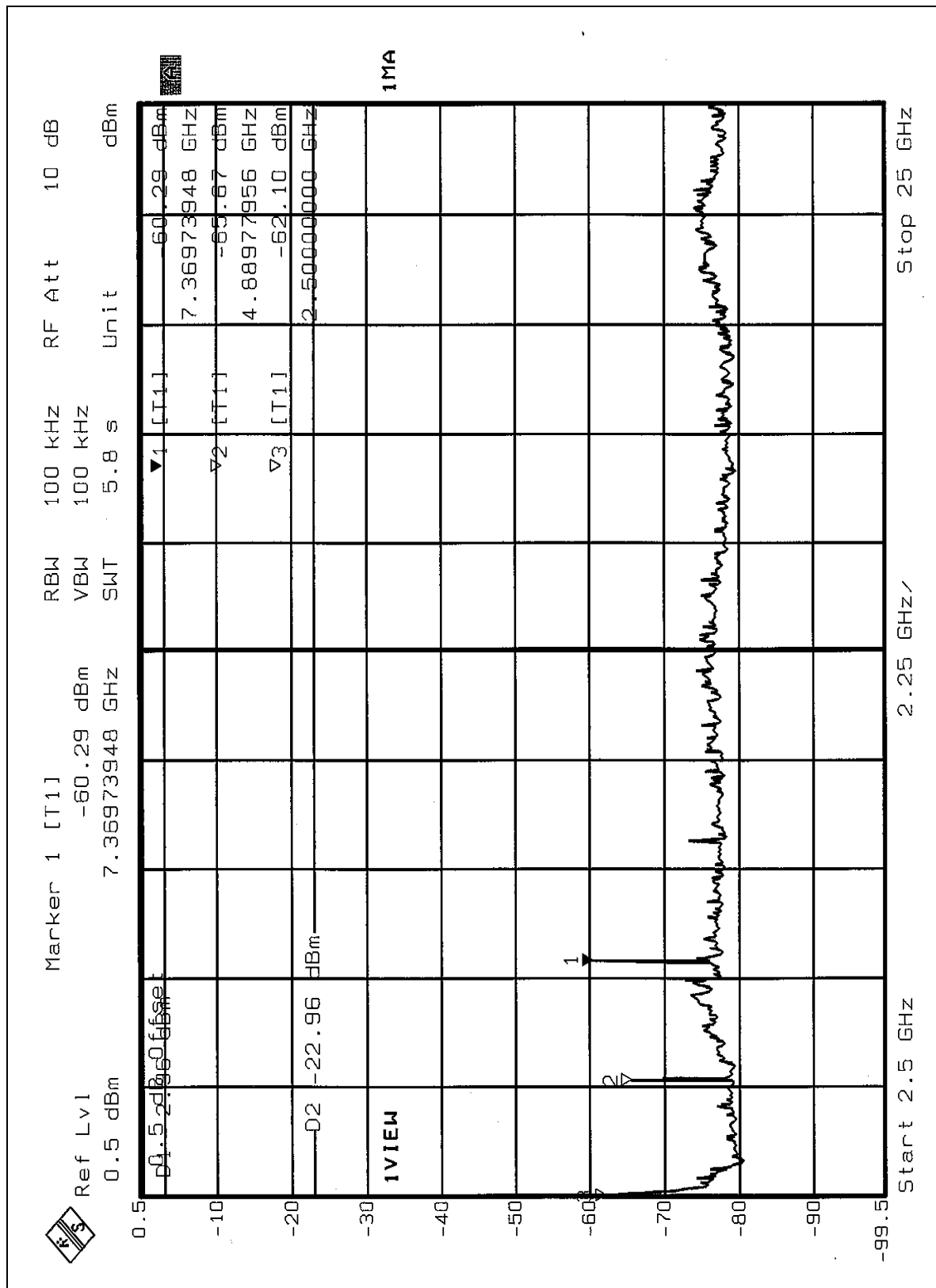


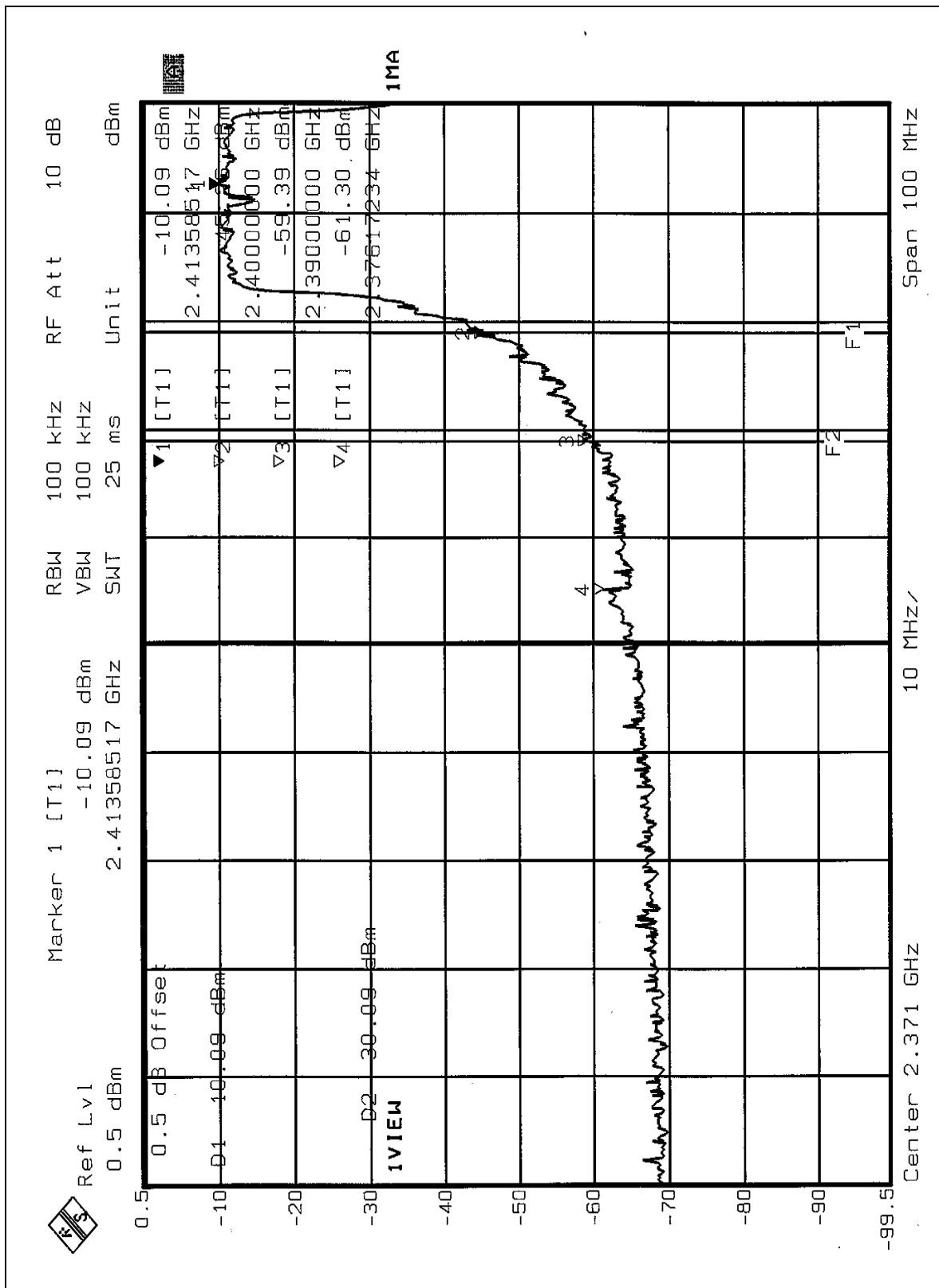


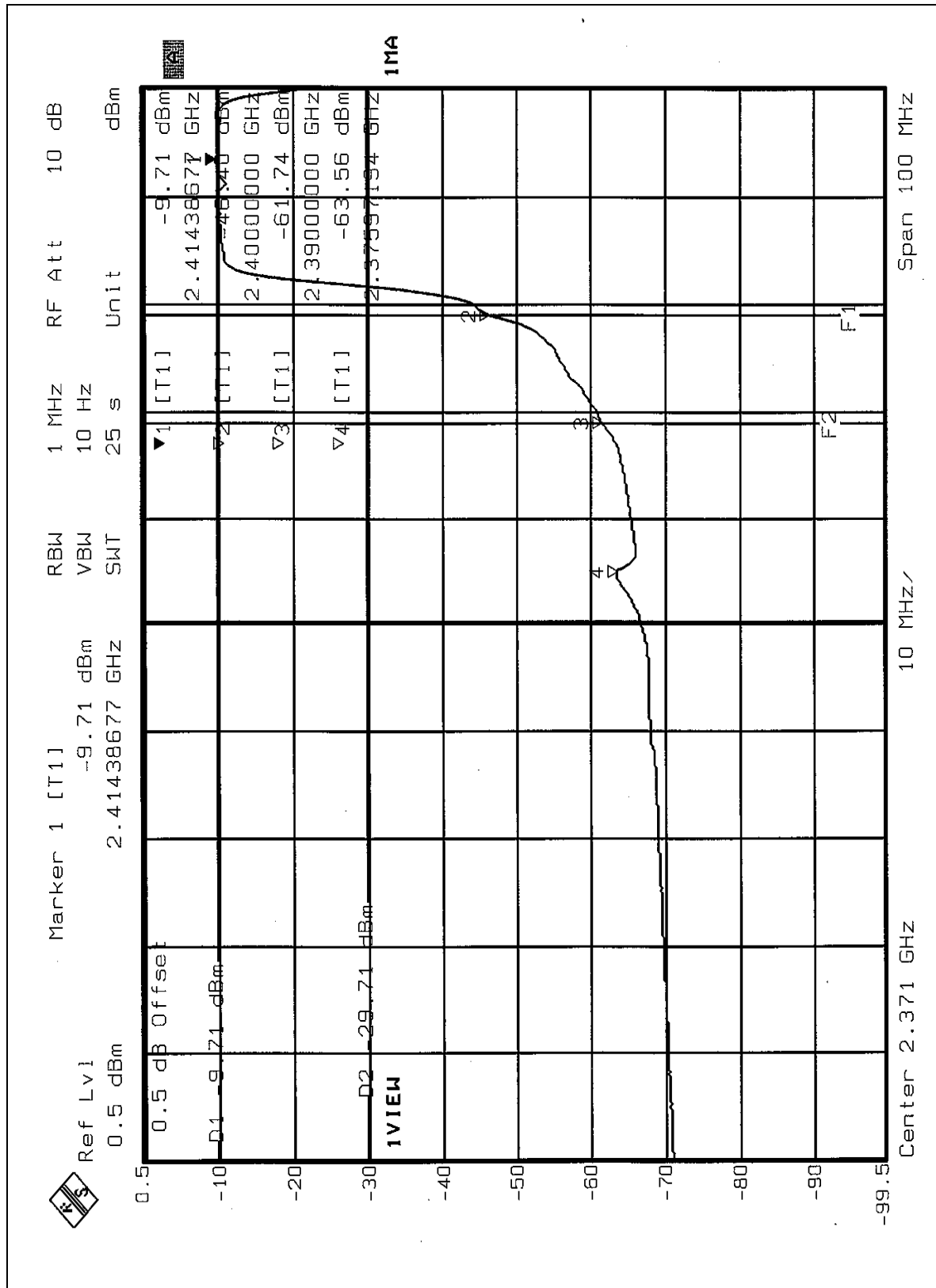


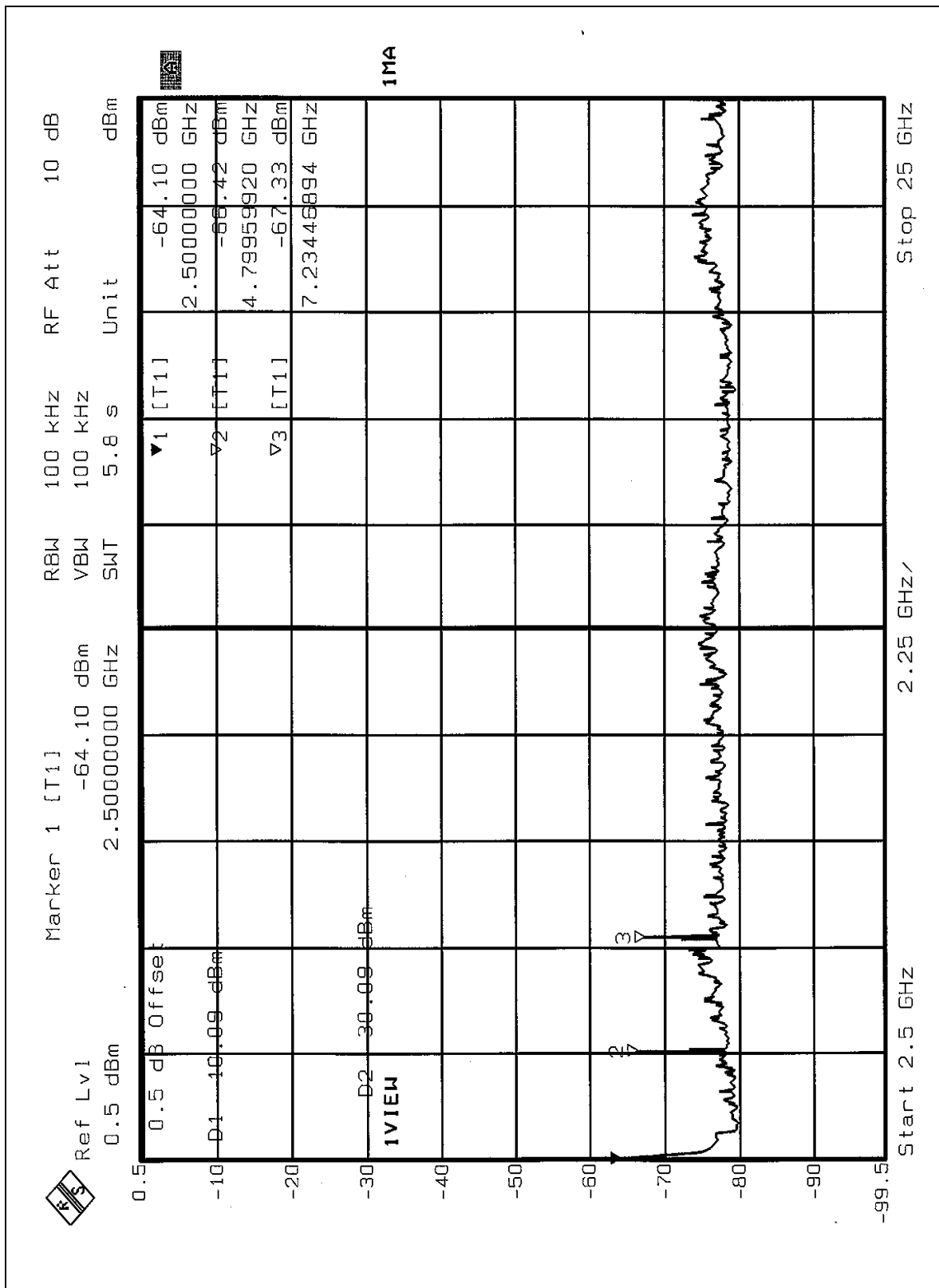


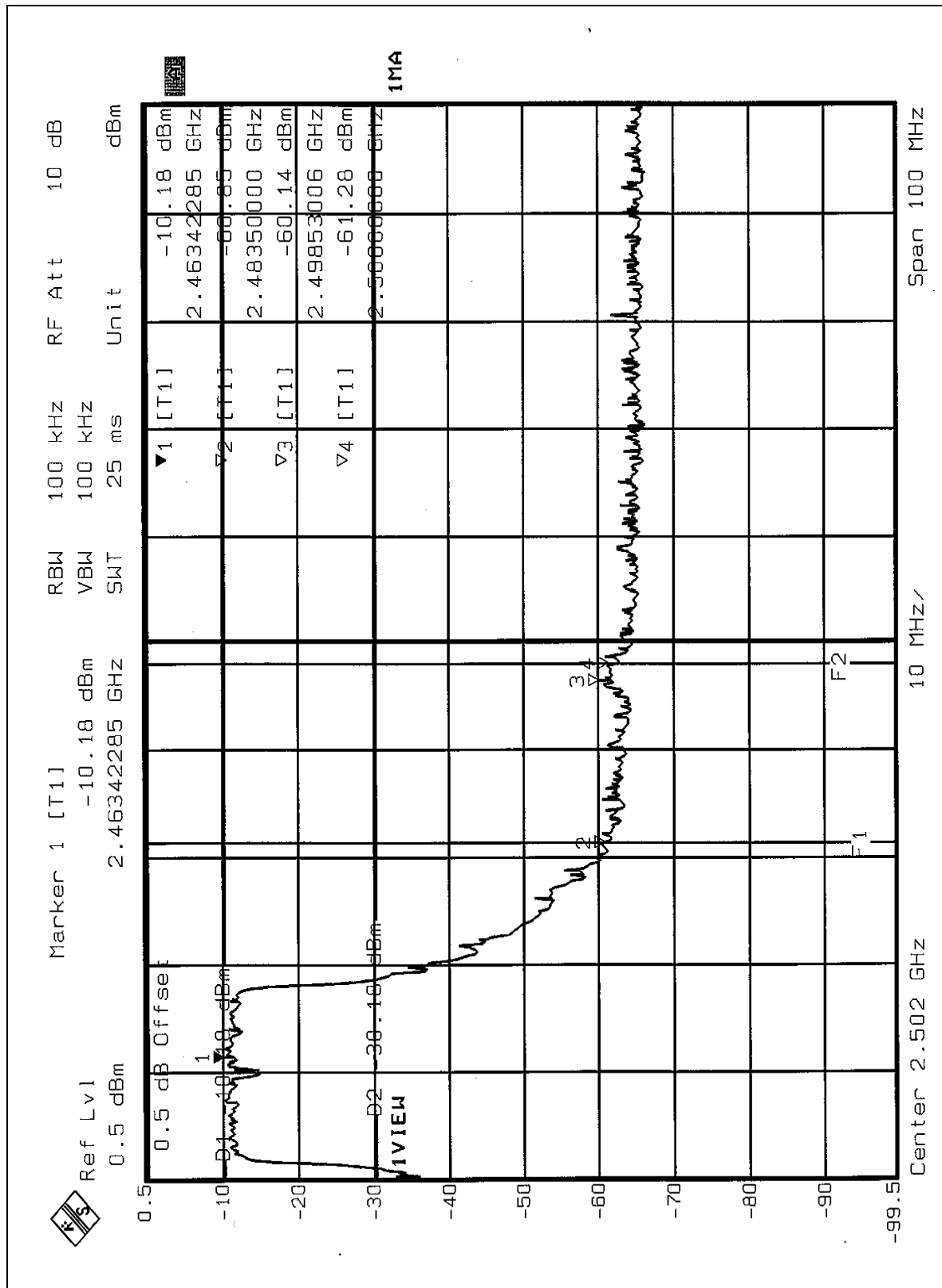


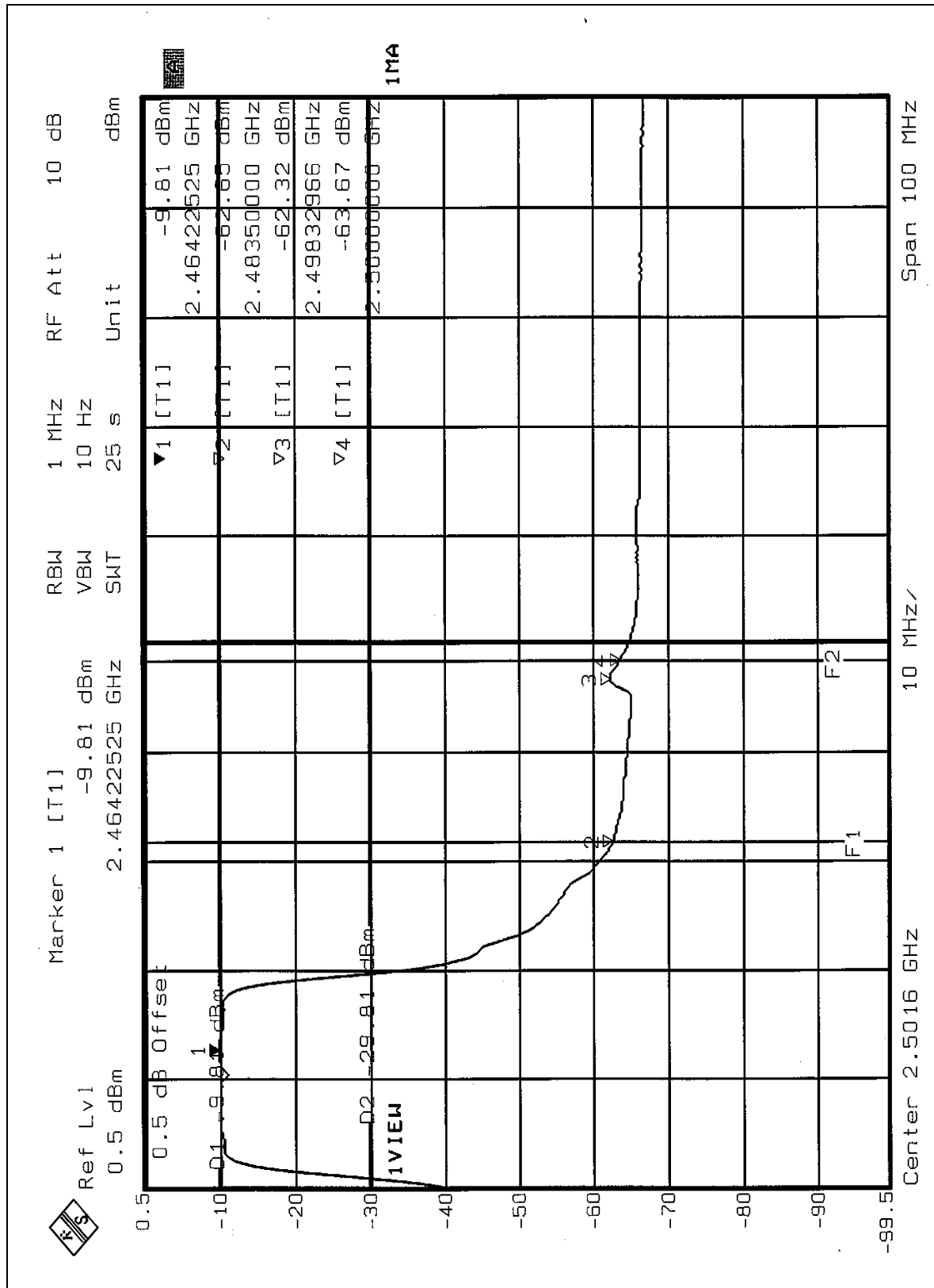


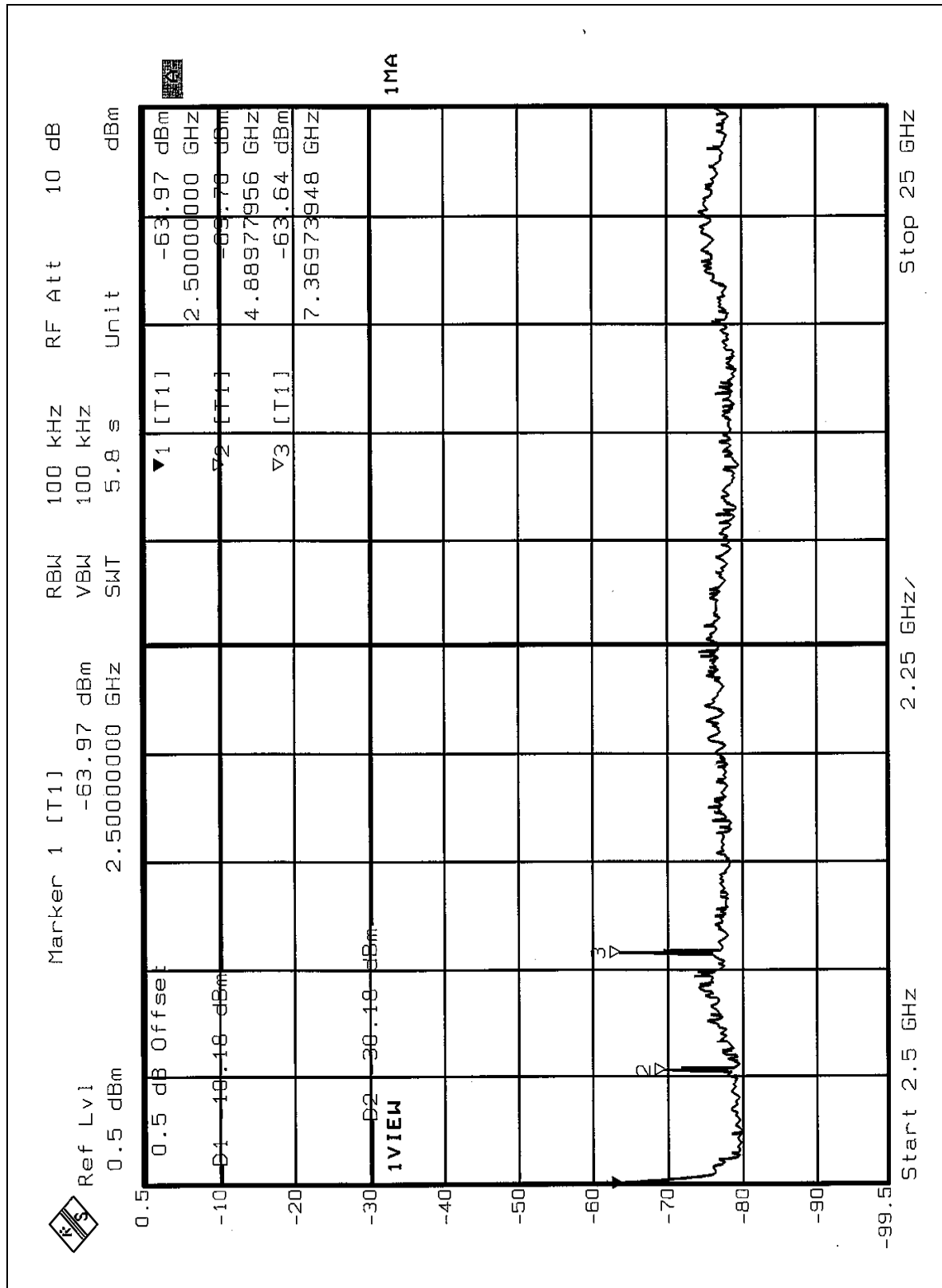














## **4.7 ANTENNA REQUIREMENT**

### **4.7.1 STANDARD APPLICABLE**

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### **4.7.2 ANTENNA CONNECTED CONSTRUCTION**

There are 7 antennas used for this product (please refer to page 8 of this report). The antenna types are patch and dipole with N type antenna connector. The maximum Gain is 18dBi.

## 5 PHOTOGRAPHS OF THE TEST CONFIGURATION

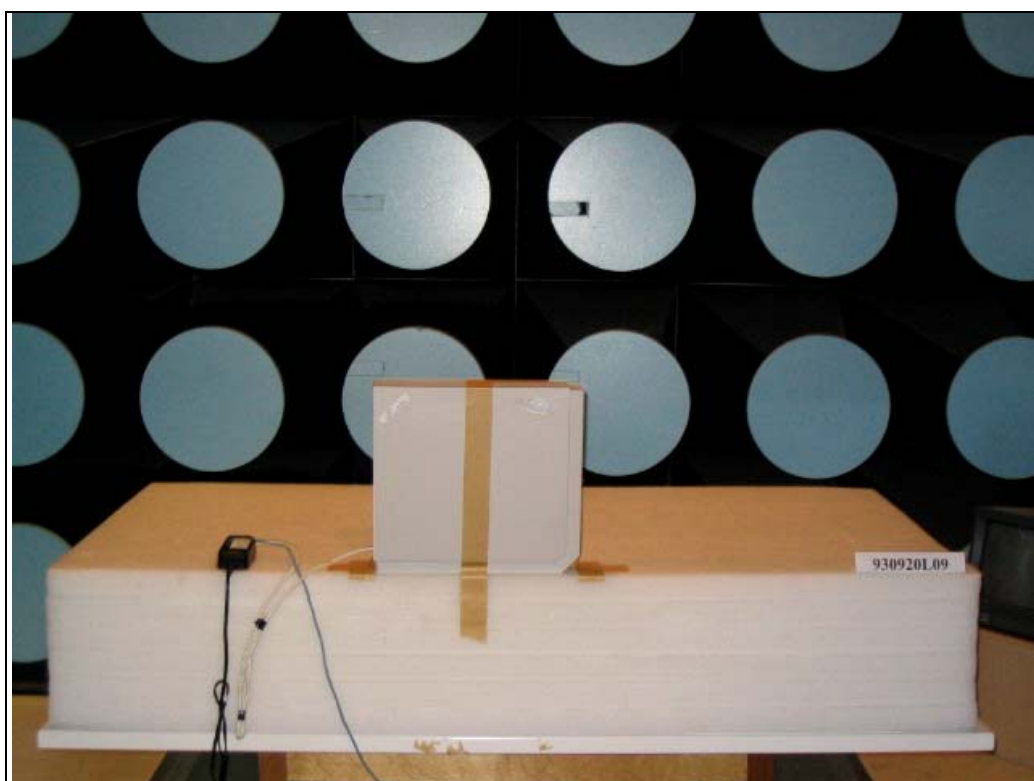
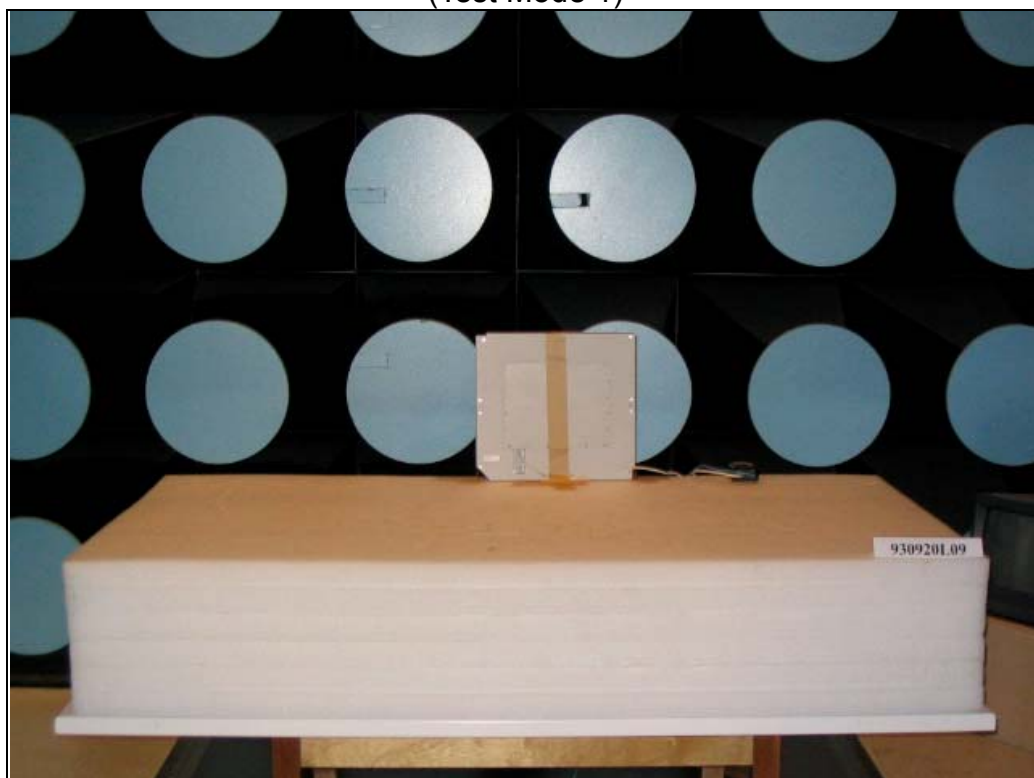
### CONDUCTED EMISSION TEST (Test Mode 1)



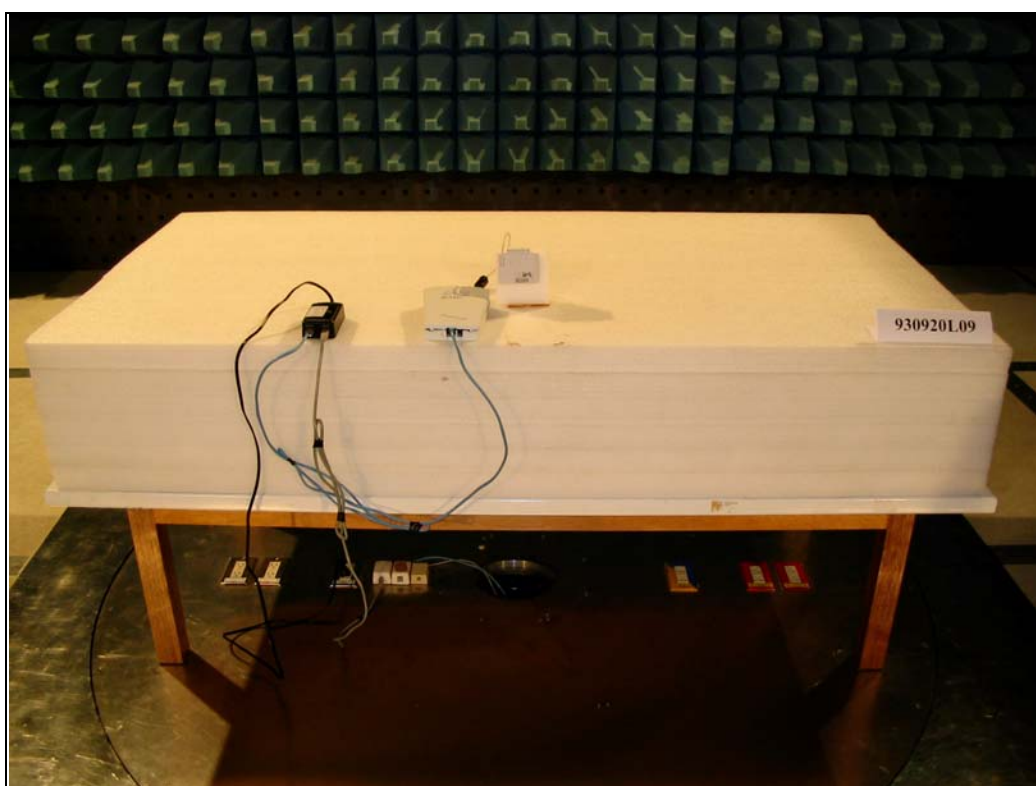
(Test Mode 4)



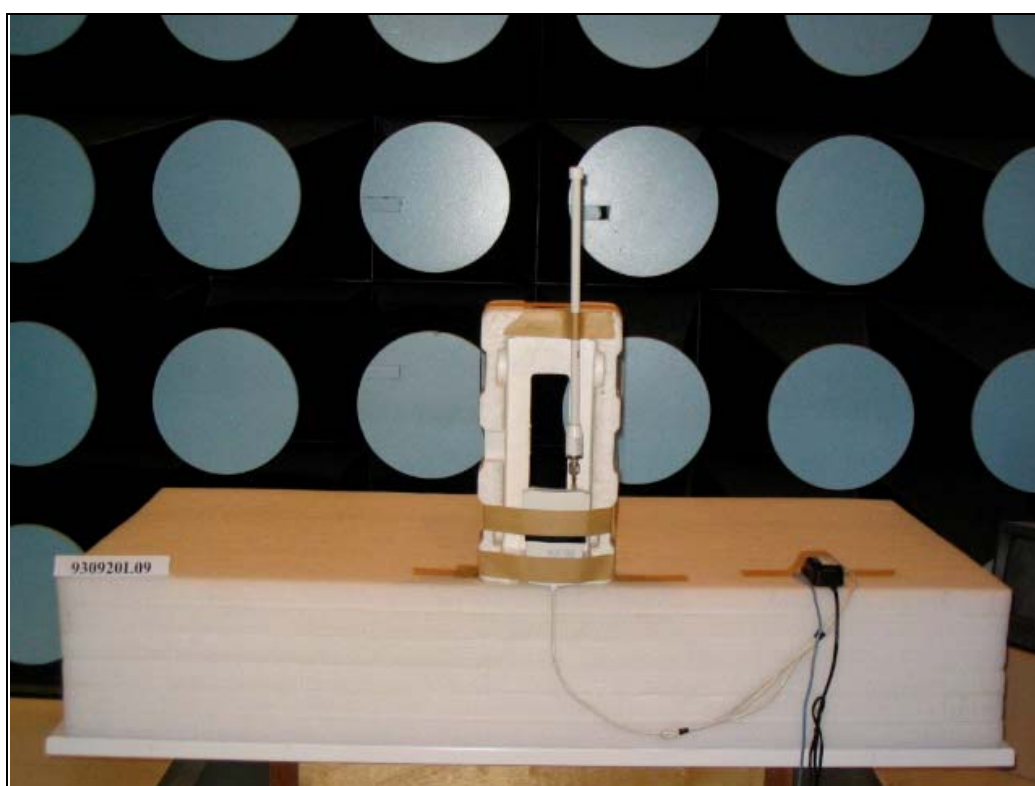
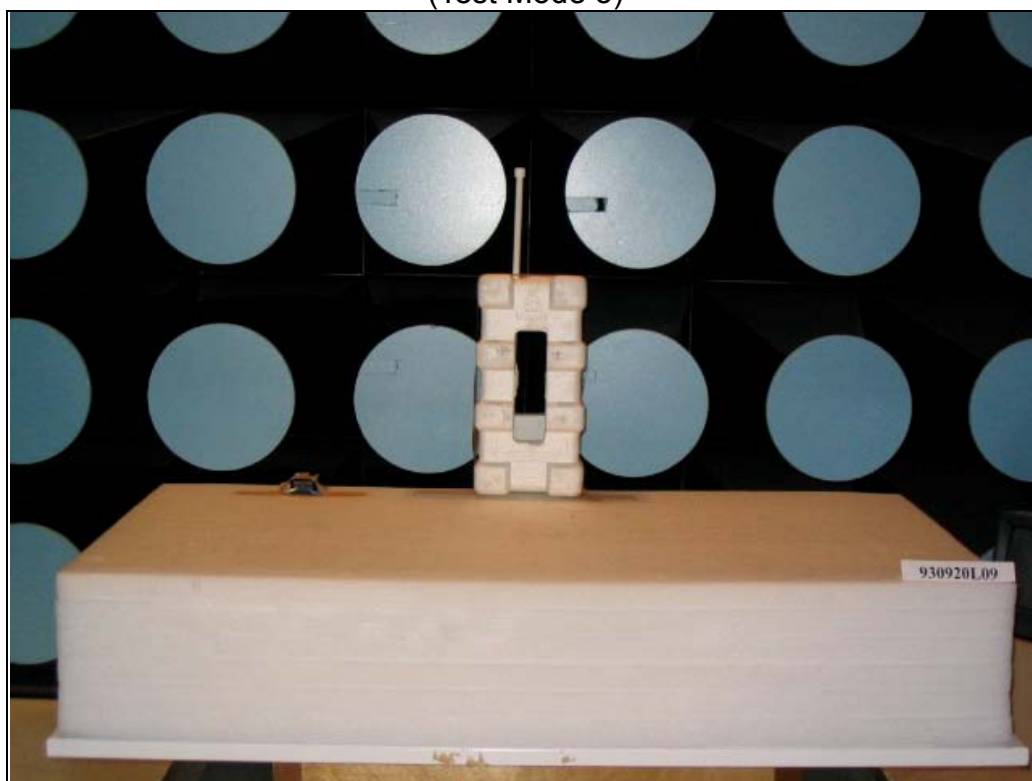
RADIATED EMISSION TEST  
(Test Mode 1)



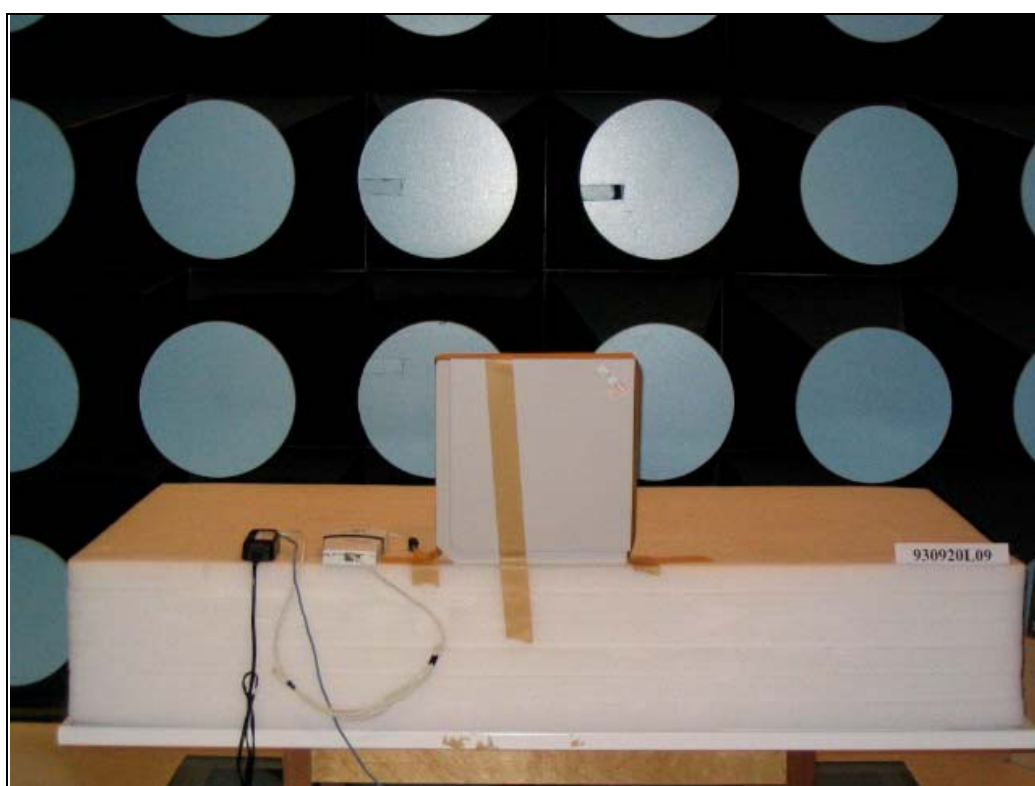
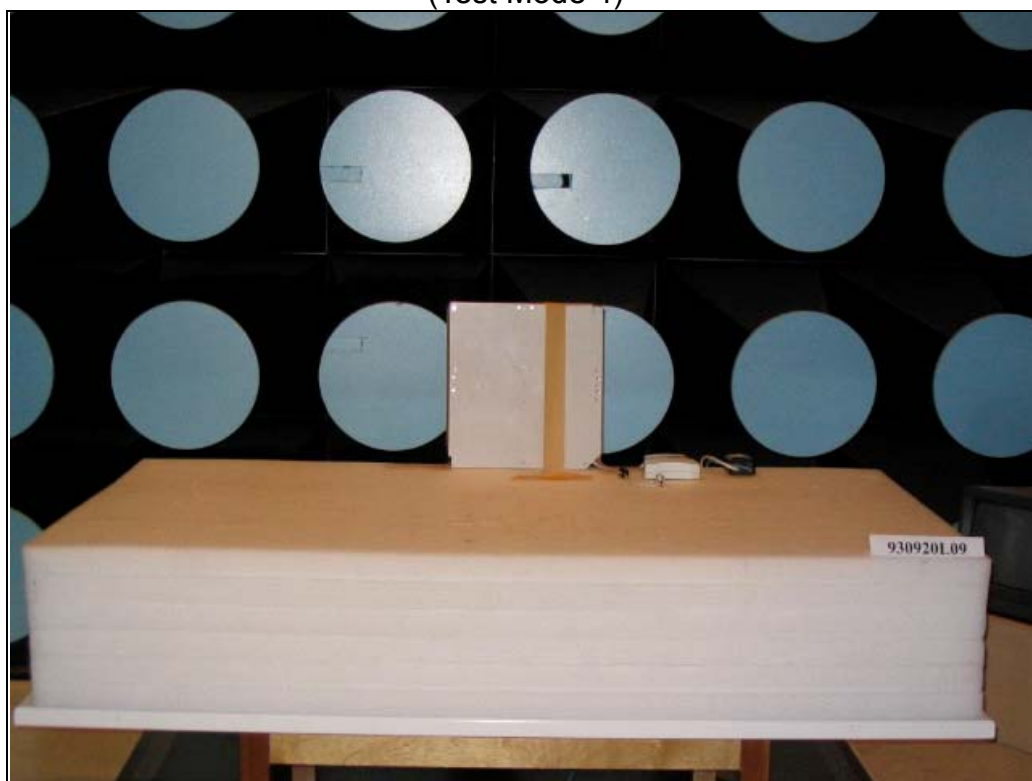
(Test Mode 2)



(Test Mode 3)



(Test Mode 4)



## 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, NVLAP, 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, DGT       |
| <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:

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Tel: 886-2-26052180

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**Hsin Chu EMC/RF Lab:**

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Fax: 886-3-5935342

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

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**Linko RF Lab.**

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**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.