

# FCC TEST REPORT

**REPORT NO.:** RF140403C06

**MODEL NO.:** F7C043fc

**FCC ID:** K7SF7C043

**RECEIVED:** Apr. 03, 2014

**TESTED:** Jun. 18 ~ Sep. 17, 2014

**ISSUED:** Sep. 22, 2014

**APPLICANT:** Belkin International, Inc.

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90094 USA

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

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

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## RELEASE CONTROL RECORD

| ISSUE NO.   | REASON FOR CHANGE | DATE ISSUED   |
|-------------|-------------------|---------------|
| RF140403C06 | Original release. | Sep. 22, 2014 |

## 1. CERTIFICATION

**PRODUCT:** Wemo Maker  
**MODEL NO.:** F7C043fc  
**BRAND:** Belkin  
**APPLICANT:** Belkin International, Inc.  
**TESTED:** Jun. 18 ~ Sep. 17, 2014  
**TEST SAMPLE:** ENGINEERING SAMPLE  
**STANDARDS:** FCC Part 15, Subpart C (Section 15.247)  
ANSI C63.10-2009

The above equipment (model: F7C043fc) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**PREPARED BY :** Polly Chien , **DATE :** Sep. 22, 2014  
Polly Chien / Specialist

**APPROVED BY :** Ken Liu , **DATE :** Sep. 22, 2014  
Ken Liu / Senior Manager

## 2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247) |                             |        |                                                                                  |
|-----------------------------------------------------------|-----------------------------|--------|----------------------------------------------------------------------------------|
| STANDARD SECTION                                          | TEST TYPE                   | RESULT | REMARK                                                                           |
| 15.207                                                    | AC Power Conducted Emission | PASS   | Meet the requirement of limit. Minimum passing margin is -18.77dB at 0.76719MHz. |
| 15.205 & 209                                              | Radiated Emissions          | PASS   | Meet the requirement of limit. Minimum passing margin is -3.3dB at 600.38MHz.    |
| 15.247(d)                                                 | Band Edge Measurement       | PASS   | Meet the requirement of limit. Minimum passing margin is -1.1dB at 2483.50MHz.   |
| 15.247(d)                                                 | Antenna Port Emission       | PASS   | Meet the requirement of limit.                                                   |
| 15.247(a)(2)                                              | 6dB bandwidth               | PASS   | Meet the requirement of limit.                                                   |
| 15.247(b)                                                 | Conducted power             | PASS   | Meet the requirement of limit.                                                   |
| 15.247(e)                                                 | Power Spectral Density      | PASS   | Meet the requirement of limit.                                                   |
| 15.203                                                    | Antenna Requirement         | PASS   | No antenna connector is used.                                                    |

### 2.1 MEASUREMENT UNCERTAINTY

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

| MEASUREMENT         | FREQUENCY       | UNCERTAINTY |
|---------------------|-----------------|-------------|
| Conducted emissions | 150kHz~30MHz    | 2.44 dB     |
| Radiated emissions  | 30MHz ~ 200MHz  | 3.59 dB     |
|                     | 200MHz ~1000MHz | 3.60 dB     |
|                     | 1GHz ~ 18GHz    | 2.29 dB     |
|                     | 18GHz ~ 40GHz   | 2.29 dB     |

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

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

|                              |                                                                                                                         |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>EUT</b>                   | Wemo Maker                                                                                                              |
| <b>MODEL NO.</b>             | F7C043fc                                                                                                                |
| <b>POWER SUPPLY</b>          | 5Vdc (adapter)                                                                                                          |
| <b>MODULATION TYPE</b>       | CCK, DQPSK, DBPSK for DSSS<br>64QAM, 16QAM, QPSK, BPSK for OFDM                                                         |
| <b>MODULATION TECHNOLOGY</b> | DSSS, OFDM                                                                                                              |
| <b>TRANSFER RATE</b>         | 802.11b: 11.0/ 5.5/ 2.0/ 1.0Mbps<br>802.11g: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps<br>802.11n: up to 150Mbps |
| <b>OPERATING FREQUENCY</b>   | 2412 ~ 2462MHz                                                                                                          |
| <b>NUMBER OF CHANNEL</b>     | 11 for 802.11b, 802.11g, 802.11n (20MHz)<br>7 for 802.11n (40MHz)                                                       |
| <b>OUTPUT POWER</b>          | 293.765mW                                                                                                               |
| <b>ANTENNA TYPE</b>          | Printed antenna with 2.13dBi gain                                                                                       |
| <b>ANTENNA CONNECTOR</b>     | N/A                                                                                                                     |
| <b>DATA CABLE</b>            | 1.2m USB cable with 1 core                                                                                              |
| <b>I/O PORTS</b>             | Refer to user's manual                                                                                                  |
| <b>ACCESSORY DEVICES</b>     | Adapter                                                                                                                 |

#### NOTE:

- The EUT provides one completed transmitter and one receiver.

| MODULATION MODE | TX FUNCTION |
|-----------------|-------------|
| 802.11b         | 1TX         |
| 802.11g         | 1TX         |
| 802.11n (20MHz) | 1TX         |
| 802.11n (40MHz) | 1TX         |

- The EUT consumes power from the following adapter.

| ADAPTER        |                           |
|----------------|---------------------------|
| <b>BRAND:</b>  | belkin                    |
| <b>MODEL:</b>  | F8J052                    |
| <b>INPUT:</b>  | 100-240Vac, 50-60Hz, 0.5A |
| <b>OUTPUT:</b> | 5Vdc, 2.1A                |

- The above EUT information is declared by manufacturer and for more detailed feature description, please refer to the manufacturer's specifications or user's manual.

### 3.2 DESCRIPTION OF TEST MODES

11 channels are provided for 802.11b, 802.11g and 802.11n (20MHz):

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

7 channels are provided for 802.11n (40MHz):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 3       | 2422MHz   | 7       | 2442MHz   |
| 4       | 2427MHz   | 8       | 2447MHz   |
| 5       | 2432MHz   | 9       | 2452MHz   |
| 6       | 2437MHz   |         |           |

### 3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

| EUT CONFIGURE MODE | APPLICABLE TO |       |     |      | DESCRIPTION |
|--------------------|---------------|-------|-----|------|-------------|
|                    | RE $\geq$ 1G  | RE<1G | PLC | APCM |             |
| A                  | √             | √     | √   | √    | Sample 02   |
| B                  | -             | √     | -   | -    | Sample 01   |

Where **RE $\geq$ 1G**: Radiated Emission above 1GHz      **RE<1G**: Radiated Emission below 1GHz  
**PLC**: Power Line Conducted Emission      **APCM**: Antenna Port Conducted Measurement

**NOTE:**

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Y-plane**.
2. "-" means no effect.

#### **RADIATED EMISSION TEST (ABOVE 1GHz):**

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

| EUT CONFIGURE MODE | MODE            | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
|--------------------|-----------------|-------------------|----------------|-----------------------|-----------------|------------------|
| A                  | 802.11b         | 1 to 11           | 1, 6, 11       | DSSS                  | DBPSK           | 1.0              |
| A                  | 802.11g         | 1 to 11           | 1, 6, 11       | OFDM                  | BPSK            | 6.0              |
| A                  | 802.11n (20MHz) | 1 to 11           | 1, 6, 11       | OFDM                  | BPSK            | 6.5              |
| A                  | 802.11n (40MHz) | 3 to 9            | 3, 6, 9        | OFDM                  | BPSK            | 13.5             |

#### **RADIATED EMISSION TEST (BELOW 1GHz):**

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

| EUT CONFIGURE MODE | MODE            | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
|--------------------|-----------------|-------------------|----------------|-----------------------|-----------------|------------------|
| A, B               | 802.11n (20MHz) | 1 to 11           | 6              | OFDM                  | BPSK            | 6.5              |

#### **POWER LINE CONDUCTED EMISSION TEST:**

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

| EUT<br>CONFIGURE<br>MODE | MODE            | AVAILABLE<br>CHANNEL | TESTED<br>CHANNEL | MODULATION<br>TECHNOLOGY | MODULATION<br>TYPE | DATA<br>RATE<br>(Mbps) |
|--------------------------|-----------------|----------------------|-------------------|--------------------------|--------------------|------------------------|
| A                        | 802.11n (20MHz) | 1 to 11              | 6                 | OFDM                     | BPSK               | 6.5                    |

#### **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.

| EUT<br>CONFIGURE<br>MODE | MODE            | AVAILABLE<br>CHANNEL | TESTED<br>CHANNEL | MODULATION<br>TECHNOLOGY | MODULATION<br>TYPE | DATA<br>RATE<br>(Mbps) |
|--------------------------|-----------------|----------------------|-------------------|--------------------------|--------------------|------------------------|
| A                        | 802.11b         | 1 to 11              | 1, 11             | DSSS                     | DBPSK              | 1.0                    |
| A                        | 802.11g         | 1 to 11              | 1, 11             | OFDM                     | BPSK               | 6.0                    |
| A                        | 802.11n (20MHz) | 1 to 11              | 1, 11             | OFDM                     | BPSK               | 6.5                    |
| A                        | 802.11n (40MHz) | 3 to 9               | 3, 9              | OFDM                     | BPSK               | 13.5                   |

#### **ANTENNA PORT CONDUCTED MEASUREMENT:**

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

| EUT<br>CONFIGURE<br>MODE | MODE            | AVAILABLE<br>CHANNEL | TESTED<br>CHANNEL | MODULATION<br>TECHNOLOGY | MODULATION<br>TYPE | DATA<br>RATE<br>(Mbps) |
|--------------------------|-----------------|----------------------|-------------------|--------------------------|--------------------|------------------------|
| A                        | 802.11b         | 1 to 11              | 1, 6, 11          | DSSS                     | DBPSK              | 1.0                    |
| A                        | 802.11g         | 1 to 11              | 1, 6, 11          | OFDM                     | BPSK               | 6.0                    |
| A                        | 802.11n (20MHz) | 1 to 11              | 1, 6, 11          | OFDM                     | BPSK               | 6.5                    |
| A                        | 802.11n (40MHz) | 3 to 9               | 3, 6, 9           | OFDM                     | BPSK               | 13.5                   |



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**TEST CONDITION:**

| APPLICABLE TO | ENVIRONMENTAL CONDITIONS | INPUT POWER  | TESTED BY  |
|---------------|--------------------------|--------------|------------|
| RE $\geq$ 1G  | 29deg. C, 64%RH          | 120Vac, 60Hz | Alan Wu    |
| RE<1G         | 28deg. C, 64%RH          | 120Vac, 60Hz | Alan Wu    |
| PLC           | 24deg. C, 64%RH          | 120Vac, 60Hz | Match Tsai |
| APCM          | 25deg. C, 60%RH          | 120Vac, 60Hz | Jun Wu     |

### 3.3 DUTY CYCLE OF TEST SIGNAL

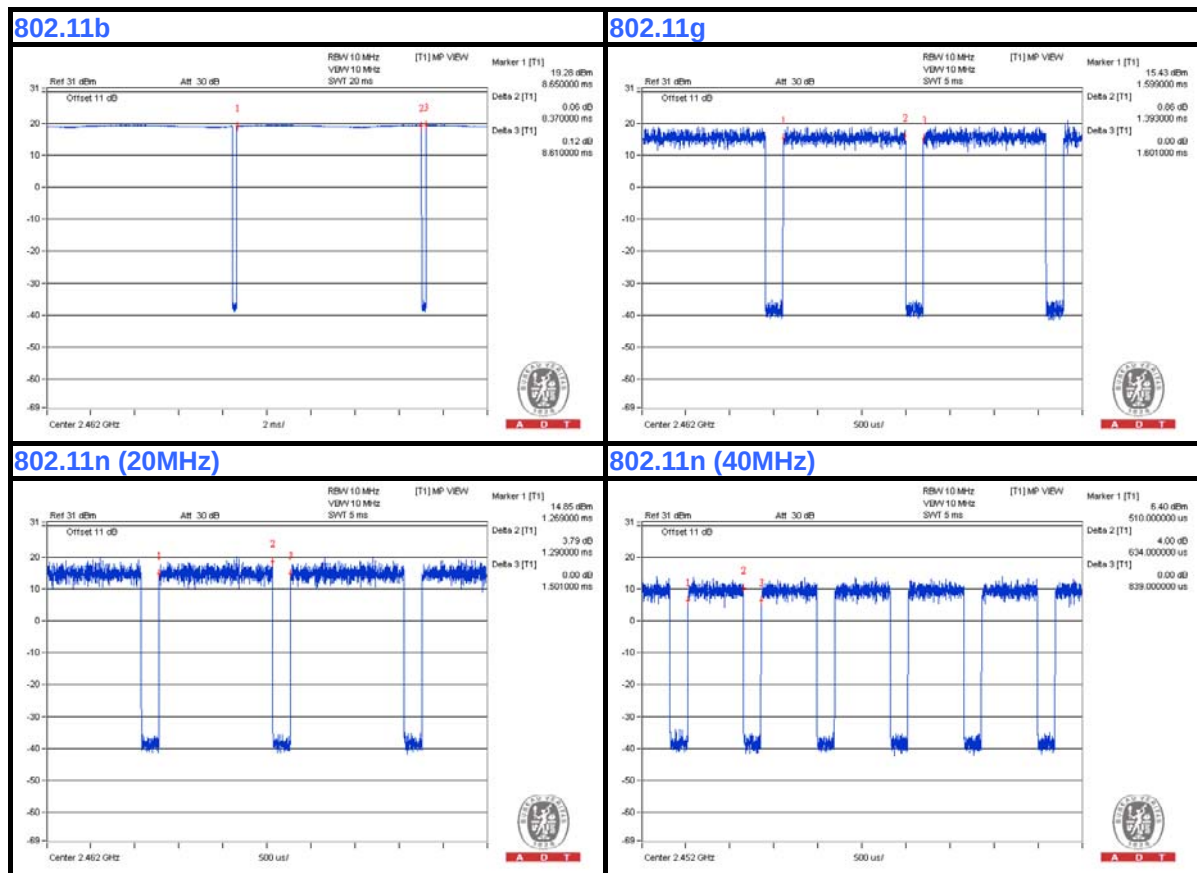
Duty cycle of test signal is < 98%

**802.11b:** Duty cycle =  $8.370/8.610 = 0.972$ , Duty factor =  $10 * \log(1/0.972) = 0.12$

**802.11g:** Duty cycle =  $1.393/1.601 = 0.870$ , Duty factor =  $10 * \log(1/0.870) = 0.60$

**802.11n (20MHz):** Duty cycle =  $1.290/1.501 = 0.859$ , Duty factor =  $10 * \log(1/0.859) = 0.66$

**802.11n (40MHz):** Duty cycle =  $0.634/0.839 = 0.756$ , Duty factor =  $10 * \log(1/0.756) = 1.21$



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### 3.4 DESCRIPTION OF SUPPORT UNITS

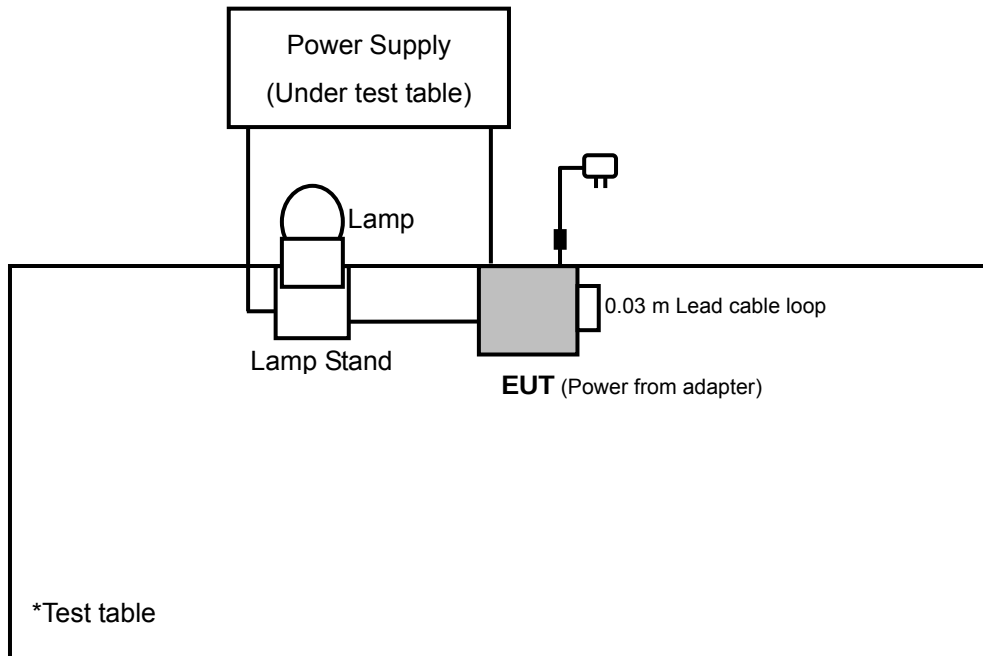
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| NO. | PRODUCT      | BRAND   | MODEL NO. | SERIAL NO. | FCC ID |
|-----|--------------|---------|-----------|------------|--------|
| 1   | Power Supply | TOPWARD | 6306A     | 727263     | NA     |
| 2   | Lamp Stand   | NA      | NA        | NA         | NA     |
| 3   | Lamp         | NA      | NA        | NA         | NA     |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS |
|-----|-----------------------------------------------------|
| 1   | NA                                                  |
| 2   | NA                                                  |
| 3   | NA                                                  |

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

### 3.4.1 CONFIGURATION OF SYSTEM UNDER TEST



### 3.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

**FCC Part 15, Subpart C (15.247)**

**558074 D01 DTS Meas Guidance v03r02**

**ANSI C63.10-2009**

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

## 4. TEST TYPES AND RESULTS

### 4.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

#### 4.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

| 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. 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.

#### 4.1.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER                 | MODEL NO.                    | SERIAL NO.  | DATE OF CALIBRATION | DUE DATE OF CALIBRATION |
|--------------------------------------------|------------------------------|-------------|---------------------|-------------------------|
| Test Receiver<br>ROHDE & SCHWARZ           | ESCI                         | 100187      | Jan. 02, 2014       | Jan. 01, 2015           |
| Spectrum Analyzer<br>ROHDE & SCHWARZ       | FSU 43                       | 100115      | Dec. 18, 2013       | Dec. 17, 2014           |
| BILOG Antenna<br>SCHWARZBECK               | VULB9168                     | 9168-155    | Feb. 26, 2014       | Feb. 25, 2015           |
| HORN Antenna<br>SCHWARZBECK                | BBHA 9120D                   | 9120D-404   | Jan. 05, 2014       | Jan. 04, 2015           |
| HORN Antenna<br>SCHWARZBECK                | BBHA 9170                    | BBHA9170241 | Feb. 17, 2014       | Feb. 16, 2015           |
| Loop Antenna                               | HFH2-Z2                      | 100070      | Mar. 06, 2014       | Mar. 05, 2016           |
| Preamplifier<br>Agilent                    | 8449B                        | 3008A01961  | Oct. 28, 2013       | Oct. 27, 2014           |
| Preamplifier<br>Agilent                    | 8447D                        | 2944A10738  | Oct. 18, 2013       | Oct. 17, 2014           |
| RF signal cable<br>HUBER+SUHNNER           | SUCOFLEX 104                 | 309220/4    | Aug. 26, 2013       | Aug. 25, 2014           |
|                                            |                              |             | Aug. 09, 2014       | Aug. 08, 2015           |
| RF signal cable<br>HUBER+SUHNNER           | SUCOFLEX 104                 | 250724/4    | Aug. 26, 2013       | Aug. 25, 2014           |
|                                            |                              |             | Aug. 09, 2014       | Aug. 08, 2015           |
| RF signal cable<br>HUBER+SUHNNER           | SUCOFLEX 104                 | 295012/4    | Aug. 26, 2013       | Aug. 25, 2014           |
|                                            |                              |             | Aug. 09, 2014       | Aug. 08, 2015           |
| Software<br>BV ADT                         | ADT_Radiated_<br>V7.6.15.9.4 | NA          | NA                  | NA                      |
| Antenna Tower<br>inn-co GmbH               | MA 4000                      | 010303      | NA                  | NA                      |
| Antenna Tower<br>Controller<br>inn-co GmbH | CO2000                       | 019303      | NA                  | NA                      |
| Turn Table<br>BV ADT                       | TT100.                       | TT93021704  | NA                  | NA                      |
| Turn Table Controller<br>BV ADT            | SC100.                       | SC93021704  | NA                  | NA                      |
| High Speed Power<br>Meter                  | ML2495A                      | 0824011     | Jul. 29, 2013       | Jul. 28, 2014           |
|                                            |                              |             | Jul. 26, 2014       | Jul. 25, 2015           |
| Power Sensor                               | MA2411B                      | 0738171     | Jul. 29, 2013       | Jul. 28, 2014           |
|                                            |                              |             | Jul. 26, 2014       | Jul. 25, 2015           |

- 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 calibration interval of the loop antenna is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. The test was performed in HwaYa Chamber 4.
4. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
5. The FCC Site Registration No. is 460141.
6. The IC Site Registration No. is IC7450F-4.

#### 4.1.3 TEST PROCEDURES

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

**NOTE:**

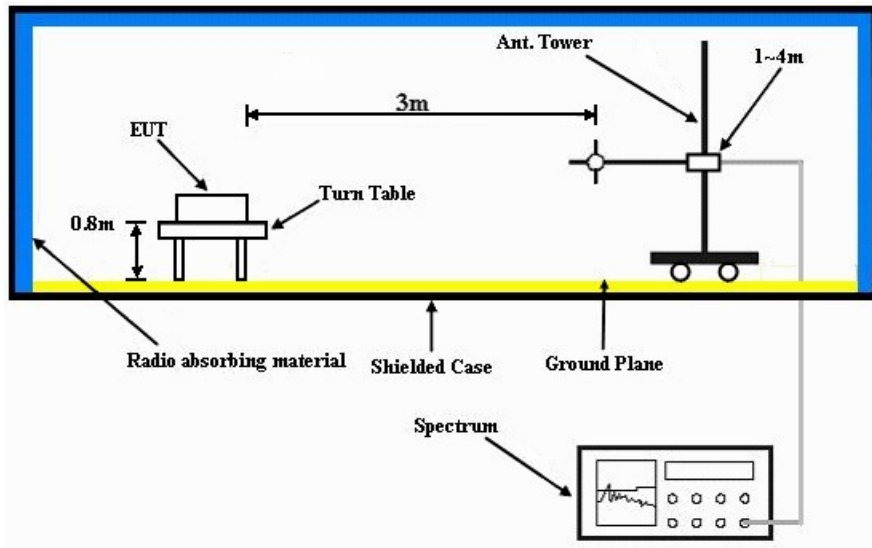
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle  $< 98\%$ ) or 10Hz(Duty cycle  $> 98\%$ ) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

#### 4.1.4 DEVIATION FROM TEST STANDARD

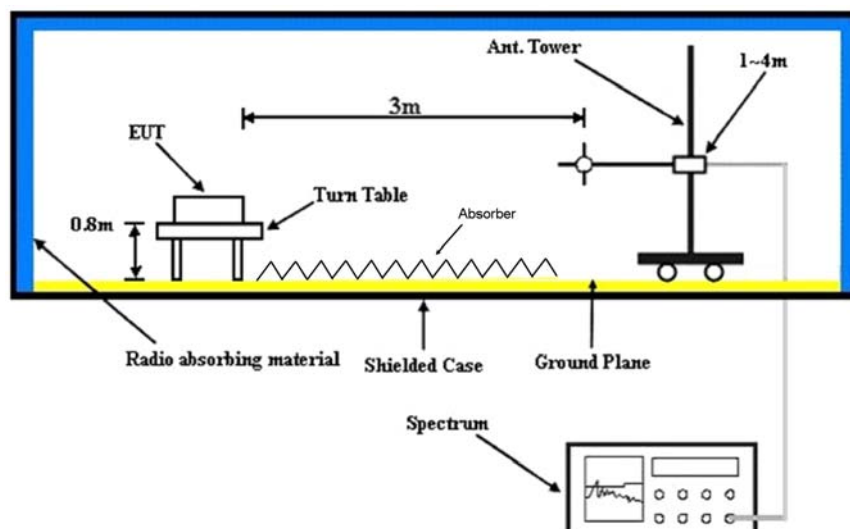
No deviation.

#### 4.1.5 TEST SETUP

##### Frequency range 30MHz~1GHz



##### Frequency range above 1GHz



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

#### 4.1.6 EUT OPERATING CONDITIONS

- a. The EUT's relay connected to a power source via a Lamp to check in action.
- b. During the test, the Sensor port "GPIO and Ground" are in loop (Lead cable).
- c. The notebook system ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
- d. The necessary accessories enable the system in full functions.

## 4.1.7 TEST RESULTS

### ABOVE 1GHz DATA :

#### 802.11b

| EUT TEST CONDITION       |                 | MEASUREMENT DETAIL |                           |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL                  | Channel 1       | FREQUENCY RANGE    | 1 ~ 25GHz                 |
| INPUT POWER              | 120Vac, 60 Hz   | DETECTOR FUNCTION  | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 29deg. C, 64%RH | TESTED BY          | Alan Wu                   |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 2386.00     | 57.5 PK                 | 74.0           | -16.5       | 1.01 H             | 329                  | 25.50            | 32.00                    |
| 2                                                   | 2386.00     | 47.5 AV                 | 54.0           | -6.5        | 1.01 H             | 329                  | 15.50            | 32.00                    |
| 3                                                   | *2412.00    | 99.8 PK                 |                |             | 1.03 H             | 329                  | 67.80            | 32.00                    |
| 4                                                   | *2412.00    | 95.9 AV                 |                |             | 1.03 H             | 329                  | 63.90            | 32.00                    |
| 5                                                   | 4824.00     | 51.8 PK                 | 74.0           | -22.2       | 1.00 H             | 148                  | 46.60            | 5.20                     |
| 6                                                   | 4824.00     | 45.6 AV                 | 54.0           | -8.4        | 1.00 H             | 148                  | 40.40            | 5.20                     |
| 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                                                   | 2386.00     | 59.9 PK                 | 74.0           | -14.1       | 1.17 V             | 31                   | 27.90            | 32.00                    |
| 2                                                   | 2386.00     | 51.1 AV                 | 54.0           | -2.9        | 1.17 V             | 31                   | 19.10            | 32.00                    |
| 3                                                   | *2412.00    | 110.5 PK                |                |             | 1.17 V             | 35                   | 78.50            | 32.00                    |
| 4                                                   | *2412.00    | 106.7 AV                |                |             | 1.17 V             | 35                   | 74.70            | 32.00                    |
| 5                                                   | 4824.00     | 51.5 PK                 | 74.0           | -22.5       | 1.03 V             | 165                  | 46.30            | 5.20                     |
| 6                                                   | 4824.00     | 47.4 AV                 | 54.0           | -6.6        | 1.03 V             | 165                  | 42.20            | 5.20                     |

#### 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)  
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ \* “: Fundamental frequency.

| EUT TEST CONDITION       |                 | MEASUREMENT DETAIL |                           |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL                  | Channel 6       | FREQUENCY RANGE    | 1 ~ 25GHz                 |
| INPUT POWER              | 120Vac, 60 Hz   | DETECTOR FUNCTION  | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 29deg. C, 64%RH | TESTED BY          | Alan Wu                   |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2437.00    | 99.1 PK                 |                |             | 1.05 H             | 328                  | 67.00            | 32.10                    |
| 2                                                   | *2437.00    | 95.1 AV                 |                |             | 1.05 H             | 328                  | 63.00            | 32.10                    |
| 3                                                   | 4874.00     | 50.7 PK                 | 74.0           | -23.3       | 1.00 H             | 140                  | 45.40            | 5.30                     |
| 4                                                   | 4874.00     | 44.3 AV                 | 54.0           | -9.7        | 1.00 H             | 140                  | 39.00            | 5.30                     |
| 5                                                   | 7311.00     | 55.0 PK                 | 74.0           | -19.0       | 1.28 H             | 109                  | 43.70            | 11.30                    |
| 6                                                   | 7311.00     | 47.7 AV                 | 54.0           | -6.3        | 1.28 H             | 109                  | 36.40            | 11.30                    |
| 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    | 109.2 PK                |                |             | 1.12 V             | 46                   | 77.10            | 32.10                    |
| 2                                                   | *2437.00    | 105.4 AV                |                |             | 1.12 V             | 46                   | 73.30            | 32.10                    |
| 3                                                   | 4874.00     | 52.7 PK                 | 74.0           | -21.3       | 1.03 V             | 166                  | 47.40            | 5.30                     |
| 4                                                   | 4874.00     | 47.9 AV                 | 54.0           | -6.1        | 1.03 V             | 166                  | 42.60            | 5.30                     |
| 5                                                   | 7311.00     | 55.3 PK                 | 74.0           | -18.7       | 1.11 V             | 329                  | 44.00            | 11.30                    |
| 6                                                   | 7311.00     | 47.6 AV                 | 54.0           | -6.4        | 1.11 V             | 329                  | 36.30            | 11.30                    |

**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)  
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ \* “: Fundamental frequency.

| EUT TEST CONDITION       |                 | MEASUREMENT DETAIL |                           |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL                  | Channel 11      | FREQUENCY RANGE    | 1 ~ 25GHz                 |
| INPUT POWER              | 120Vac, 60 Hz   | DETECTOR FUNCTION  | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 29deg. C, 64%RH | TESTED BY          | Alan Wu                   |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2462.00    | 95.8 PK                 |                |             | 1.04 H             | 309                  | 63.50            | 32.30                    |
| 2                                                   | *2462.00    | 92.0 AV                 |                |             | 1.04 H             | 309                  | 59.70            | 32.30                    |
| 3                                                   | 2483.50     | 57.4 PK                 | 74.0           | -16.6       | 1.09 H             | 301                  | 25.00            | 32.40                    |
| 4                                                   | 2483.50     | 44.2 AV                 | 54.0           | -9.8        | 1.09 H             | 301                  | 11.80            | 32.40                    |
| 5                                                   | 4924.00     | 48.1 PK                 | 74.0           | -25.9       | 1.46 H             | 117                  | 42.70            | 5.40                     |
| 6                                                   | 4924.00     | 43.1 AV                 | 54.0           | -10.9       | 1.46 H             | 117                  | 37.70            | 5.40                     |
| 7                                                   | 7386.00     | 54.4 PK                 | 74.0           | -19.6       | 1.44 H             | 121                  | 43.00            | 11.40                    |
| 8                                                   | 7386.00     | 47.9 AV                 | 54.0           | -6.1        | 1.44 H             | 121                  | 36.50            | 11.40                    |
| 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    | 106.9 PK                |                |             | 1.08 V             | 54                   | 74.60            | 32.30                    |
| 2                                                   | *2462.00    | 103.1 AV                |                |             | 1.08 V             | 54                   | 70.80            | 32.30                    |
| 3                                                   | 2483.50     | 60.2 PK                 | 74.0           | -13.8       | 1.02 V             | 57                   | 27.80            | 32.40                    |
| 4                                                   | 2483.50     | 52.4 AV                 | 54.0           | -1.6        | 1.02 V             | 57                   | 20.00            | 32.40                    |
| 5                                                   | 4924.00     | 50.2 PK                 | 74.0           | -23.8       | 1.05 V             | 169                  | 44.80            | 5.40                     |
| 6                                                   | 4924.00     | 45.6 AV                 | 54.0           | -8.4        | 1.05 V             | 169                  | 40.20            | 5.40                     |
| 7                                                   | 7386.00     | 54.3 PK                 | 74.0           | -19.7       | 1.17 V             | 332                  | 42.90            | 11.40                    |
| 8                                                   | 7386.00     | 47.5 AV                 | 54.0           | -6.5        | 1.17 V             | 332                  | 36.10            | 11.40                    |

**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)  
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ \* ”: Fundamental frequency.



A D T

# 802.11g

| EUT TEST CONDITION       |                 | MEASUREMENT DETAIL |                           |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL                  | Channel 1       | FREQUENCY RANGE    | 1 ~ 25GHz                 |
| INPUT POWER              | 120Vac, 60 Hz   | DETECTOR FUNCTION  | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 29deg. C, 64%RH | TESTED BY          | Alan Wu                   |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 2390.00     | 58.1 PK                 | 74.0           | -15.9       | 1.00 H             | 329                  | 26.10            | 32.00                    |
| 2                                                   | 2390.00     | 45.7 AV                 | 54.0           | -8.3        | 1.00 H             | 329                  | 13.70            | 32.00                    |
| 3                                                   | *2412.00    | 97.8 PK                 |                |             | 1.04 H             | 329                  | 65.80            | 32.00                    |
| 4                                                   | *2412.00    | 88.3 AV                 |                |             | 1.04 H             | 329                  | 56.30            | 32.00                    |
| 5                                                   | 4824.00     | 48.2 PK                 | 74.0           | -25.8       | 1.00 H             | 149                  | 43.00            | 5.20                     |
| 6                                                   | 4824.00     | 35.1 AV                 | 54.0           | -18.9       | 1.00 H             | 149                  | 29.90            | 5.20                     |
| 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                                                   | 2390.00     | 70.9 PK                 | 74.0           | -3.1        | 1.15 V             | 31                   | 38.90            | 32.00                    |
| 2                                                   | 2390.00     | 52.4 AV                 | 54.0           | -1.6        | 1.15 V             | 31                   | 20.40            | 32.00                    |
| 3                                                   | *2412.00    | 109.4 PK                |                |             | 1.17 V             | 33                   | 77.40            | 32.00                    |
| 4                                                   | *2412.00    | 99.8 AV                 |                |             | 1.17 V             | 33                   | 67.80            | 32.00                    |
| 5                                                   | 4824.00     | 48.5 PK                 | 74.0           | -25.5       | 1.02 V             | 162                  | 43.30            | 5.20                     |
| 6                                                   | 4824.00     | 36.3 AV                 | 54.0           | -17.7       | 1.02 V             | 162                  | 31.10            | 5.20                     |

## 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)  
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ \* “: Fundamental frequency.

| EUT TEST CONDITION       |                 | MEASUREMENT DETAIL |                           |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL                  | Channel 6       | FREQUENCY RANGE    | 1 ~ 25GHz                 |
| INPUT POWER              | 120Vac, 60 Hz   | DETECTOR FUNCTION  | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 29deg. C, 64%RH | TESTED BY          | Alan Wu                   |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2437.00    | 98.6 PK                 |                |             | 1.04 H             | 328                  | 66.50            | 32.10                    |
| 2                                                   | *2437.00    | 88.9 AV                 |                |             | 1.04 H             | 328                  | 56.80            | 32.10                    |
| 3                                                   | 2489.00     | 57.0 PK                 | 74.0           | -17.0       | 1.02 H             | 320                  | 24.60            | 32.40                    |
| 4                                                   | 2489.00     | 44.5 AV                 | 54.0           | -9.5        | 1.02 H             | 320                  | 12.10            | 32.40                    |
| 5                                                   | 4874.00     | 48.0 PK                 | 74.0           | -26.0       | 1.00 H             | 148                  | 42.70            | 5.30                     |
| 6                                                   | 4874.00     | 34.8 AV                 | 54.0           | -19.2       | 1.00 H             | 148                  | 29.50            | 5.30                     |
| 7                                                   | 7311.00     | 64.0 PK                 | 74.0           | -10.0       | 1.47 H             | 125                  | 52.70            | 11.30                    |
| 8                                                   | 7311.00     | 47.5 AV                 | 54.0           | -6.5        | 1.47 H             | 125                  | 36.20            | 11.30                    |
| 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    | 108.6 PK                |                |             | 1.16 V             | 34                   | 76.50            | 32.10                    |
| 2                                                   | *2437.00    | 98.8 AV                 |                |             | 1.16 V             | 34                   | 66.70            | 32.10                    |
| 3                                                   | 2489.00     | 67.0 PK                 | 74.0           | -7.0        | 1.16 V             | 36                   | 34.60            | 32.40                    |
| 4                                                   | 2489.00     | 52.5 AV                 | 54.0           | -1.5        | 1.16 V             | 36                   | 20.10            | 32.40                    |
| 5                                                   | 4874.00     | 49.3 PK                 | 74.0           | -24.7       | 1.05 V             | 165                  | 44.00            | 5.30                     |
| 6                                                   | 4874.00     | 36.4 AV                 | 54.0           | -17.6       | 1.05 V             | 165                  | 31.10            | 5.30                     |
| 7                                                   | 7311.00     | 62.6 PK                 | 74.0           | -11.4       | 1.32 V             | 327                  | 51.30            | 11.30                    |
| 8                                                   | 7311.00     | 47.7 AV                 | 54.0           | -6.3        | 1.32 V             | 327                  | 36.40            | 11.30                    |

**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)  
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ \* ”: Fundamental frequency.

| EUT TEST CONDITION       |                 | MEASUREMENT DETAIL |                           |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL                  | Channel 11      | FREQUENCY RANGE    | 1 ~ 25GHz                 |
| INPUT POWER              | 120Vac, 60 Hz   | DETECTOR FUNCTION  | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 29deg. C, 64%RH | TESTED BY          | Alan Wu                   |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2462.00    | 92.4 PK                 |                |             | 1.00 H             | 333                  | 60.10            | 32.30                    |
| 2                                                   | *2462.00    | 83.2 AV                 |                |             | 1.00 H             | 333                  | 50.90            | 32.30                    |
| 3                                                   | 2483.50     | 57.6 PK                 | 74.0           | -16.4       | 1.00 H             | 331                  | 25.20            | 32.40                    |
| 4                                                   | 2483.50     | 43.6 AV                 | 54.0           | -10.4       | 1.00 H             | 331                  | 11.20            | 32.40                    |
| 5                                                   | 4924.00     | 46.1 PK                 | 74.0           | -27.9       | 1.00 H             | 145                  | 40.70            | 5.40                     |
| 6                                                   | 4924.00     | 33.3 AV                 | 54.0           | -20.7       | 1.00 H             | 145                  | 27.90            | 5.40                     |
| 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    | 105.5 PK                |                |             | 1.10 V             | 53                   | 73.20            | 32.30                    |
| 2                                                   | *2462.00    | 95.6 AV                 |                |             | 1.10 V             | 53                   | 63.30            | 32.30                    |
| 3                                                   | 2483.50     | 71.5 PK                 | 74.0           | -2.5        | 1.12 V             | 32                   | 39.10            | 32.40                    |
| 4                                                   | 2483.50     | 52.8 AV                 | 54.0           | -1.2        | 1.12 V             | 32                   | 20.40            | 32.40                    |
| 5                                                   | 4924.00     | 46.5 PK                 | 74.0           | -27.5       | 1.00 V             | 160                  | 41.10            | 5.40                     |
| 6                                                   | 4924.00     | 33.9 AV                 | 54.0           | -20.1       | 1.00 V             | 160                  | 28.50            | 5.40                     |

**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)  
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ \* “: Fundamental frequency.



A D T

## 802.11n (20MHz)

| EUT TEST CONDITION       |                 | MEASUREMENT DETAIL |                           |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL                  | Channel 1       | FREQUENCY RANGE    | 1 ~ 25GHz                 |
| INPUT POWER              | 120Vac, 60 Hz   | DETECTOR FUNCTION  | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 29deg. C, 64%RH | TESTED BY          | Alan Wu                   |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 2390.00     | 62.7 PK                 | 74.0           | -11.3       | 1.07 H             | 331                  | 30.70            | 32.00                    |
| 2                                                   | 2390.00     | 44.5 AV                 | 54.0           | -9.5        | 1.07 H             | 331                  | 12.50            | 32.00                    |
| 3                                                   | *2412.00    | 97.2 PK                 |                |             | 1.05 H             | 332                  | 65.20            | 32.00                    |
| 4                                                   | *2412.00    | 86.7 AV                 |                |             | 1.05 H             | 332                  | 54.70            | 32.00                    |
| 5                                                   | 4824.00     | 47.4 PK                 | 74.0           | -26.6       | 1.00 H             | 148                  | 42.20            | 5.20                     |
| 6                                                   | 4824.00     | 34.8 AV                 | 54.0           | -19.2       | 1.00 H             | 148                  | 29.60            | 5.20                     |
| 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                                                   | 2390.00     | 70.1 PK                 | 74.0           | -3.9        | 1.16 V             | 35                   | 38.10            | 32.00                    |
| 2                                                   | 2390.00     | 52.6 AV                 | 54.0           | -1.4        | 1.16 V             | 35                   | 20.60            | 32.00                    |
| 3                                                   | *2412.00    | 108.4 PK                |                |             | 1.17 V             | 39                   | 76.40            | 32.00                    |
| 4                                                   | *2412.00    | 97.9 AV                 |                |             | 1.17 V             | 39                   | 65.90            | 32.00                    |
| 5                                                   | 4824.00     | 47.7 PK                 | 74.0           | -26.3       | 1.01 V             | 161                  | 42.50            | 5.20                     |
| 6                                                   | 4824.00     | 36.0 AV                 | 54.0           | -18.0       | 1.01 V             | 161                  | 30.80            | 5.20                     |

## 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)  
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ \* “: Fundamental frequency.

| EUT TEST CONDITION       |                 | MEASUREMENT DETAIL |                           |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL                  | Channel 6       | FREQUENCY RANGE    | 1 ~ 25GHz                 |
| INPUT POWER              | 120Vac, 60 Hz   | DETECTOR FUNCTION  | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 29deg. C, 64%RH | TESTED BY          | Alan Wu                   |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2437.00    | 99.1 PK                 |                |             | 1.05 H             | 330                  | 67.00            | 32.10                    |
| 2                                                   | *2437.00    | 88.6 AV                 |                |             | 1.05 H             | 330                  | 56.50            | 32.10                    |
| 3                                                   | 2489.00     | 57.5 PK                 | 74.0           | -16.5       | 1.07 H             | 325                  | 25.10            | 32.40                    |
| 4                                                   | 2489.00     | 44.8 AV                 | 54.0           | -9.2        | 1.07 H             | 325                  | 12.40            | 32.40                    |
| 5                                                   | 4874.00     | 48.1 PK                 | 74.0           | -25.9       | 1.00 H             | 143                  | 42.80            | 5.30                     |
| 6                                                   | 4874.00     | 35.2 AV                 | 54.0           | -18.8       | 1.00 H             | 143                  | 29.90            | 5.30                     |
| 7                                                   | 7311.00     | 63.0 PK                 | 74.0           | -11.0       | 1.47 H             | 126                  | 51.70            | 11.30                    |
| 8                                                   | 7311.00     | 47.5 AV                 | 54.0           | -6.5        | 1.47 H             | 126                  | 36.20            | 11.30                    |
| 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    | 109.5 PK                |                |             | 1.39 V             | 43                   | 77.40            | 32.10                    |
| 2                                                   | *2437.00    | 99.3 AV                 |                |             | 1.39 V             | 43                   | 67.20            | 32.10                    |
| 3                                                   | 2489.00     | 67.5 PK                 | 74.0           | -6.5        | 1.30 V             | 40                   | 35.10            | 32.40                    |
| 4                                                   | 2489.00     | 52.1 AV                 | 54.0           | -1.9        | 1.30 V             | 40                   | 19.70            | 32.40                    |
| 5                                                   | 4874.00     | 48.3 PK                 | 74.0           | -25.7       | 1.00 V             | 160                  | 43.00            | 5.30                     |
| 6                                                   | 4874.00     | 36.6 AV                 | 54.0           | -17.4       | 1.00 V             | 160                  | 31.30            | 5.30                     |
| 7                                                   | 7311.00     | 62.0 PK                 | 74.0           | -12.0       | 1.33 V             | 329                  | 50.70            | 11.30                    |
| 8                                                   | 7311.00     | 47.2 AV                 | 54.0           | -6.8        | 1.33 V             | 329                  | 35.90            | 11.30                    |

**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)  
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ \* “: Fundamental frequency.

| EUT TEST CONDITION       |                 | MEASUREMENT DETAIL |                           |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL                  | Channel 11      | FREQUENCY RANGE    | 1 ~ 25GHz                 |
| INPUT POWER              | 120Vac, 60 Hz   | DETECTOR FUNCTION  | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 29deg. C, 64%RH | TESTED BY          | Alan Wu                   |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2462.00    | 92.1 PK                 |                |             | 1.00 H             | 333                  | 59.80            | 32.30                    |
| 2                                                   | *2462.00    | 82.3 AV                 |                |             | 1.00 H             | 333                  | 50.00            | 32.30                    |
| 3                                                   | 2483.50     | 61.7 PK                 | 74.0           | -12.3       | 1.00 H             | 330                  | 29.30            | 32.40                    |
| 4                                                   | 2483.50     | 43.8 AV                 | 54.0           | -10.2       | 1.00 H             | 330                  | 11.40            | 32.40                    |
| 5                                                   | 4924.00     | 46.7 PK                 | 74.0           | -27.3       | 1.00 H             | 140                  | 41.30            | 5.40                     |
| 6                                                   | 4924.00     | 34.6 AV                 | 54.0           | -19.4       | 1.00 H             | 140                  | 29.20            | 5.40                     |
| 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    | 105.6 PK                |                |             | 1.08 V             | 53                   | 73.30            | 32.30                    |
| 2                                                   | *2462.00    | 95.1 AV                 |                |             | 1.08 V             | 53                   | 62.80            | 32.30                    |
| 3                                                   | 2483.50     | 72.9 PK                 | 74.0           | -1.1        | 1.01 V             | 54                   | 40.50            | 32.40                    |
| 4                                                   | 2483.50     | 51.1 AV                 | 54.0           | -2.9        | 1.01 V             | 54                   | 18.70            | 32.40                    |
| 5                                                   | 4924.00     | 47.0 PK                 | 74.0           | -27.0       | 1.03 V             | 165                  | 41.60            | 5.40                     |
| 6                                                   | 4924.00     | 35.1 AV                 | 54.0           | -18.9       | 1.03 V             | 165                  | 29.70            | 5.40                     |

**REMARKS:**

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)  
– Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- \* \*: Fundamental frequency.



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## 802.11n (40MHz)

| EUT TEST CONDITION       |                 | MEASUREMENT DETAIL |                           |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL                  | Channel 3       | FREQUENCY RANGE    | 1 ~ 25GHz                 |
| INPUT POWER              | 120Vac, 60 Hz   | DETECTOR FUNCTION  | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 29deg. C, 64%RH | TESTED BY          | Alan Wu                   |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | 2390.00     | 56.2 PK                 | 74.0           | -17.8       | 1.09 H             | 320                  | 24.20            | 32.00                    |
| 2                                                   | 2390.00     | 43.6 AV                 | 54.0           | -10.4       | 1.09 H             | 320                  | 11.60            | 32.00                    |
| 3                                                   | *2422.00    | 91.9 PK                 |                |             | 1.04 H             | 328                  | 59.80            | 32.10                    |
| 4                                                   | *2422.00    | 80.7 AV                 |                |             | 1.04 H             | 328                  | 48.60            | 32.10                    |
| 5                                                   | 4844.00     | 46.9 PK                 | 74.0           | -27.1       | 1.00 H             | 149                  | 41.60            | 5.30                     |
| 6                                                   | 4844.00     | 34.1 AV                 | 54.0           | -19.9       | 1.00 H             | 149                  | 28.80            | 5.30                     |
| 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                                                   | 2390.00     | 66.6 PK                 | 74.0           | -7.4        | 1.13 V             | 54                   | 34.60            | 32.00                    |
| 2                                                   | 2390.00     | 52.5 AV                 | 54.0           | -1.5        | 1.13 V             | 54                   | 20.50            | 32.00                    |
| 3                                                   | *2422.00    | 102.8 PK                |                |             | 1.11 V             | 50                   | 70.70            | 32.10                    |
| 4                                                   | *2422.00    | 91.6 AV                 |                |             | 1.11 V             | 50                   | 59.50            | 32.10                    |
| 5                                                   | 4844.00     | 47.1 PK                 | 74.0           | -26.9       | 1.01 V             | 167                  | 41.80            | 5.30                     |
| 6                                                   | 4844.00     | 35.4 AV                 | 54.0           | -18.6       | 1.01 V             | 167                  | 30.10            | 5.30                     |

## 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)  
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ \* “: Fundamental frequency.

| EUT TEST CONDITION       |                 | MEASUREMENT DETAIL |                           |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL                  | Channel 6       | FREQUENCY RANGE    | 1 ~ 25GHz                 |
| INPUT POWER              | 120Vac, 60 Hz   | DETECTOR FUNCTION  | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 29deg. C, 64%RH | TESTED BY          | Alan Wu                   |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2437.00    | 91.9 PK                 |                |             | 1.05 H             | 329                  | 59.80            | 32.10                    |
| 2                                                   | *2437.00    | 81.2 AV                 |                |             | 1.05 H             | 329                  | 49.10            | 32.10                    |
| 3                                                   | 2483.50     | 59.6 PK                 | 74.0           | -14.4       | 1.08 H             | 326                  | 27.20            | 32.40                    |
| 4                                                   | 2483.50     | 44.9 AV                 | 54.0           | -9.1        | 1.08 H             | 326                  | 12.50            | 32.40                    |
| 5                                                   | 4874.00     | 47.5 PK                 | 74.0           | -26.5       | 1.00 H             | 142                  | 42.20            | 5.30                     |
| 6                                                   | 4874.00     | 34.3 AV                 | 54.0           | -19.7       | 1.00 H             | 142                  | 29.00            | 5.30                     |
| 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    | 102.7 PK                |                |             | 1.78 V             | 34                   | 70.60            | 32.10                    |
| 2                                                   | *2437.00    | 92.3 AV                 |                |             | 1.78 V             | 34                   | 60.20            | 32.10                    |
| 3                                                   | 2483.50     | 69.2 PK                 | 74.0           | -4.8        | 1.74 V             | 36                   | 36.80            | 32.40                    |
| 4                                                   | 2483.50     | 52.4 AV                 | 54.0           | -1.6        | 1.74 V             | 36                   | 20.00            | 32.40                    |
| 5                                                   | 4874.00     | 47.8 PK                 | 74.0           | -26.2       | 1.00 V             | 162                  | 42.50            | 5.30                     |
| 6                                                   | 4874.00     | 35.8 AV                 | 54.0           | -18.2       | 1.00 V             | 162                  | 30.50            | 5.30                     |

**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)  
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ \* “: Fundamental frequency.

| EUT TEST CONDITION       |                 | MEASUREMENT DETAIL |                           |
|--------------------------|-----------------|--------------------|---------------------------|
| CHANNEL                  | Channel 9       | FREQUENCY RANGE    | 1 ~ 25GHz                 |
| INPUT POWER              | 120Vac, 60 Hz   | DETECTOR FUNCTION  | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 29deg. C, 64%RH | TESTED BY          | Alan Wu                   |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |             |                         |                |             |                    |                      |                  |                          |
|-----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO.                                                 | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1                                                   | *2452.00    | 88.3 PK                 |                |             | 1.00 H             | 4                    | 56.00            | 32.30                    |
| 2                                                   | *2452.00    | 77.7 AV                 |                |             | 1.00 H             | 4                    | 45.40            | 32.30                    |
| 3                                                   | 2483.50     | 59.0 PK                 | 74.0           | -15.0       | 1.00 H             | 353                  | 26.60            | 32.40                    |
| 4                                                   | 2483.50     | 43.9 AV                 | 54.0           | -10.1       | 1.00 H             | 353                  | 11.50            | 32.40                    |
| 5                                                   | 4904.00     | 46.2 PK                 | 74.0           | -27.8       | 1.00 H             | 146                  | 40.80            | 5.40                     |
| 6                                                   | 4904.00     | 33.2 AV                 | 54.0           | -20.8       | 1.00 H             | 146                  | 27.80            | 5.40                     |
| 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                                                   | *2452.00    | 101.7 PK                |                |             | 1.09 V             | 55                   | 69.40            | 32.30                    |
| 2                                                   | *2452.00    | 90.4 AV                 |                |             | 1.09 V             | 55                   | 58.10            | 32.30                    |
| 3                                                   | 2483.50     | 69.6 PK                 | 74.0           | -4.4        | 1.01 V             | 57                   | 37.20            | 32.40                    |
| 4                                                   | 2483.50     | 52.4 AV                 | 54.0           | -1.6        | 1.01 V             | 57                   | 20.00            | 32.40                    |
| 5                                                   | 4904.00     | 46.6 PK                 | 74.0           | -27.4       | 1.06 V             | 168                  | 41.20            | 5.40                     |
| 6                                                   | 4904.00     | 34.7 AV                 | 54.0           | -19.3       | 1.06 V             | 168                  | 29.30            | 5.40                     |

**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)  
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ \* “: Fundamental frequency.



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**BELOW 1GHz WORST-CASE DATA : 802.11n (20MHz)**

| EUT TEST CONDITION       |                 | MEASUREMENT DETAIL |               |
|--------------------------|-----------------|--------------------|---------------|
| CHANNEL                  | Channel 6       | FREQUENCY RANGE    | Below 1000MHz |
| INPUT POWER              | 120Vac, 60 Hz   | DETECTOR FUNCTION  | Quasi-Peak    |
| ENVIRONMENTAL CONDITIONS | 28deg. C, 64%RH | TESTED BY          | Alan Wu       |
| TEST MODE                | A               |                    |               |

| 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                                                   | 179.31      | 34.3 QP                 | 43.5           | -9.2        | 1.99 H             | 6                    | 49.30            | -15.00                   |
| 2                                                   | 299.62      | 31.8 QP                 | 46.0           | -14.2       | 1.00 H             | 222                  | 44.30            | -12.50                   |
| 3                                                   | 417.98      | 32.2 QP                 | 46.0           | -13.8       | 1.00 H             | 145                  | 42.70            | -10.50                   |
| 4                                                   | 480.07      | 32.7 QP                 | 46.0           | -13.3       | 1.99 H             | 159                  | 41.90            | -9.20                    |
| 5                                                   | 540.23      | 34.2 QP                 | 46.0           | -11.8       | 1.49 H             | 12                   | 42.50            | -8.30                    |
| 6                                                   | 600.38      | 42.7 QP                 | 46.0           | -3.3        | 1.25 H             | 190                  | 49.40            | -6.70                    |
| 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                                                   | 31.84       | 34.2 QP                 | 40.0           | -5.8        | 1.49 V             | 314                  | 49.70            | -15.50                   |
| 2                                                   | 111.40      | 33.0 QP                 | 43.5           | -10.5       | 1.00 V             | 56                   | 50.00            | -17.00                   |
| 3                                                   | 179.31      | 30.1 QP                 | 43.5           | -13.4       | 1.00 V             | 210                  | 45.10            | -15.00                   |
| 4                                                   | 299.62      | 30.1 QP                 | 46.0           | -15.9       | 1.49 V             | 222                  | 42.60            | -12.50                   |
| 5                                                   | 480.07      | 34.4 QP                 | 46.0           | -11.6       | 1.00 V             | 162                  | 43.60            | -9.20                    |
| 6                                                   | 600.38      | 36.2 QP                 | 46.0           | -9.8        | 1.24 V             | 359                  | 42.90            | -6.70                    |

**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)  
– Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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| EUT TEST CONDITION       |                 | MEASUREMENT DETAIL |               |
|--------------------------|-----------------|--------------------|---------------|
| CHANNEL                  | Channel 6       | FREQUENCY RANGE    | Below 1000MHz |
| INPUT POWER              | 120Vac, 60 Hz   | DETECTOR FUNCTION  | Quasi-Peak    |
| ENVIRONMENTAL CONDITIONS | 28deg. C, 64%RH | TESTED BY          | Alan Wu       |
| TEST MODE                | B               |                    |               |

| 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                                                   | 194.83      | 39.9 QP                 | 43.5           | -3.6        | 1.25 H             | 333                  | 56.40            | -16.50                   |
| 2                                                   | 359.77      | 34.2 QP                 | 46.0           | -11.8       | 1.00 H             | 147                  | 45.70            | -11.50                   |
| 3                                                   | 480.07      | 33.9 QP                 | 46.0           | -12.1       | 2.00 H             | 34                   | 43.10            | -9.20                    |
| 4                                                   | 538.28      | 35.3 QP                 | 46.0           | -10.7       | 2.00 H             | 120                  | 43.70            | -8.40                    |
| 5                                                   | 600.38      | 39.4 QP                 | 46.0           | -6.6        | 1.25 H             | 180                  | 46.10            | -6.70                    |
| 6                                                   | 720.68      | 30.7 QP                 | 46.0           | -15.3       | 1.00 H             | 195                  | 35.50            | -4.80                    |
| 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                                                   | 35.72       | 34.5 QP                 | 40.0           | -5.5        | 1.24 V             | 209                  | 49.70            | -15.20                   |
| 2                                                   | 119.16      | 33.9 QP                 | 43.5           | -9.6        | 1.00 V             | 156                  | 50.00            | -16.10                   |
| 3                                                   | 189.01      | 31.6 QP                 | 43.5           | -11.9       | 1.24 V             | 229                  | 47.70            | -16.10                   |
| 4                                                   | 295.73      | 32.0 QP                 | 46.0           | -14.0       | 1.49 V             | 232                  | 44.60            | -12.60                   |
| 5                                                   | 480.07      | 34.0 QP                 | 46.0           | -12.0       | 1.00 V             | 74                   | 43.20            | -9.20                    |
| 6                                                   | 600.38      | 39.5 QP                 | 46.0           | -6.5        | 1.00 V             | 9                    | 46.20            | -6.70                    |

**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)  
– Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

## 4.2 CONDUCTED EMISSION MEASUREMENT

### 4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

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

- NOTE:** 1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
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.

### 4.2.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER              | MODEL NO.                | SERIAL NO.     | DATE OF CALIBRATION | DUE DATE OF CALIBRATION |
|-----------------------------------------|--------------------------|----------------|---------------------|-------------------------|
| Test Receiver<br>ROHDE & SCHWARZ        | ESCS30                   | 100288         | Apr. 24, 2014       | Apr. 23, 2015           |
| RF signal cable<br>Woken                | 5D-FB                    | Cable-HYCO2-01 | Dec. 27, 2013       | Dec. 26, 2014           |
| LISN<br>ROHDE & SCHWARZ<br>(EUT)        | ESH2-Z5                  | 100100         | Dec. 23, 2013       | Dec. 22, 2014           |
| LISN<br>ROHDE & SCHWARZ<br>(Peripheral) | ESH3-Z5                  | 100312         | Jul. 10, 2014       | Jul. 09, 2015           |
| Software<br>ADT                         | BV ADT_Cond_<br>V7.3.7.3 | NA             | NA                  | NA                      |

- NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Shielded Room 2.
3. The VCCI Site Registration No. is C-2047.

#### 4.2.3 TEST PROCEDURES

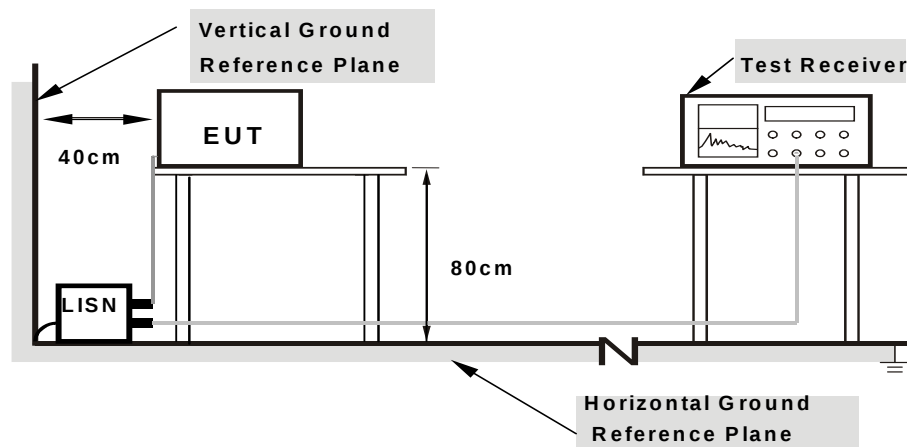
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

**NOTE:** All modes of operation were investigated and the worst-case emissions are reported.

#### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.2.5 TEST SETUP



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

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

#### 4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6.

## 4.2.7 TEST RESULTS

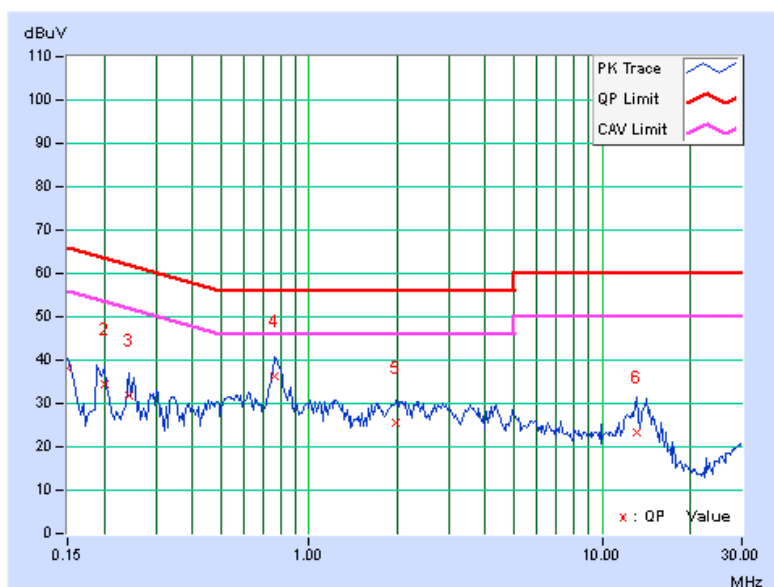
### CONDUCTED WORST-CASE DATA : 802.11n (20MHz)

|       |        |               |      |
|-------|--------|---------------|------|
| PHASE | Line 1 | 6dB BANDWIDTH | 9kHz |
|-------|--------|---------------|------|

| 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  | 0.15000        | 0.26                    | 38.07         | 26.73        | 38.33          | 26.99        | 66.00        | 56.00        | -27.67        | -29.01        |
| 2  | 0.20078        | 0.28                    | 34.17         | 24.07        | 34.45          | 24.35        | 63.58        | 53.58        | -29.13        | -29.23        |
| 3  | 0.24375        | 0.28                    | 31.58         | 22.34        | 31.86          | 22.62        | 61.97        | 51.97        | -30.10        | -29.34        |
| 4  | <b>0.76719</b> | <b>0.32</b>             | <b>35.80</b>  | <b>26.91</b> | <b>36.12</b>   | <b>27.23</b> | <b>56.00</b> | <b>46.00</b> | <b>-19.88</b> | <b>-18.77</b> |
| 5  | 1.98828        | 0.36                    | 25.26         | 16.56        | 25.62          | 16.92        | 56.00        | 46.00        | -30.38        | -29.08        |
| 6  | 13.11328       | 0.52                    | 22.83         | 15.01        | 23.35          | 15.53        | 60.00        | 50.00        | -36.65        | -34.47        |

#### REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

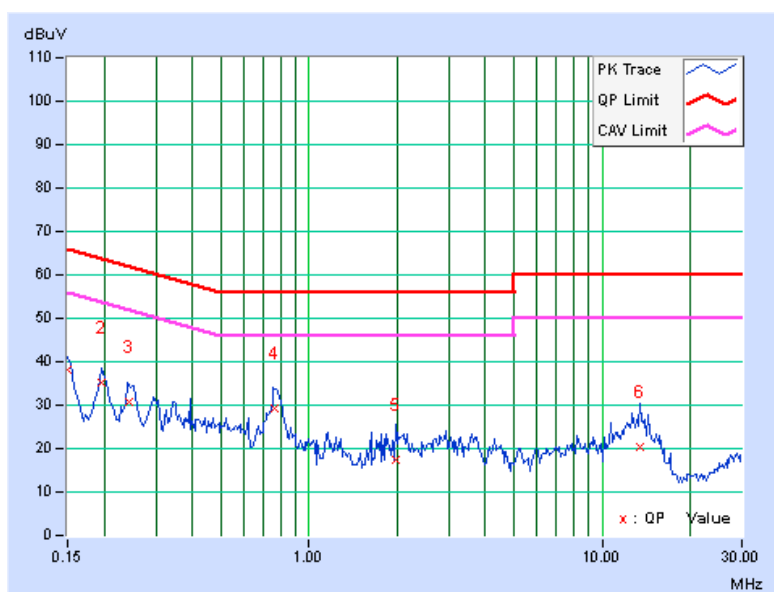


|       |        |               |      |
|-------|--------|---------------|------|
| PHASE | Line 2 | 6dB BANDWIDTH | 9kHz |
|-------|--------|---------------|------|

| 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  | 0.15000        | 0.26                    | 37.92         | 25.14 | 38.18          | 25.40 | 66.00     | 56.00 | -27.82 | -30.60 |
| 2  | 0.19687        | 0.28                    | 35.07         | 22.67 | 35.35          | 22.95 | 63.74     | 53.74 | -28.39 | -30.79 |
| 3  | 0.24233        | 0.28                    | 30.34         | 16.92 | 30.62          | 17.20 | 62.02     | 52.02 | -31.39 | -34.81 |
| 4  | 0.76564        | 0.32                    | 28.76         | 19.47 | 29.08          | 19.79 | 56.00     | 46.00 | -26.92 | -26.21 |
| 5  | 1.96875        | 0.37                    | 16.97         | 6.87  | 17.34          | 7.24  | 56.00     | 46.00 | -38.66 | -38.76 |
| 6  | 13.44922       | 0.55                    | 19.76         | 9.43  | 20.31          | 9.98  | 60.00     | 50.00 | -39.69 | -40.02 |

#### REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

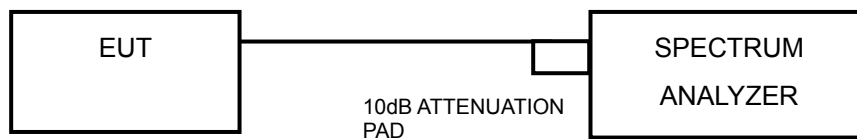


### 4.3 6dB BANDWIDTH MEASUREMENT

#### 4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

#### 4.3.2 TEST SETUP



#### 4.3.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

#### 4.3.4 TEST PROCEDURE

- Set resolution bandwidth (RBW) = 100kHz
- Set the video bandwidth (VBW)  $\geq 3 \times$  RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

#### 4.3.5 DEVIATION FROM TEST STANDARD

No deviation.

#### 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

| CHANNEL | FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | MINIMUM LIMIT (MHz) | PASS / FAIL |
|---------|-----------------|---------------------|---------------------|-------------|
| 1       | 2412            | 12.13               | 0.5                 | PASS        |
| 6       | 2437            | 12.14               | 0.5                 | PASS        |
| 11      | 2462            | 12.15               | 0.5                 | PASS        |

##### 802.11g

| CHANNEL | FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | MINIMUM LIMIT (MHz) | PASS / FAIL |
|---------|-----------------|---------------------|---------------------|-------------|
| 1       | 2412            | 16.36               | 0.5                 | PASS        |
| 6       | 2437            | 16.36               | 0.5                 | PASS        |
| 11      | 2462            | 16.40               | 0.5                 | PASS        |

##### 802.11n (20MHz)

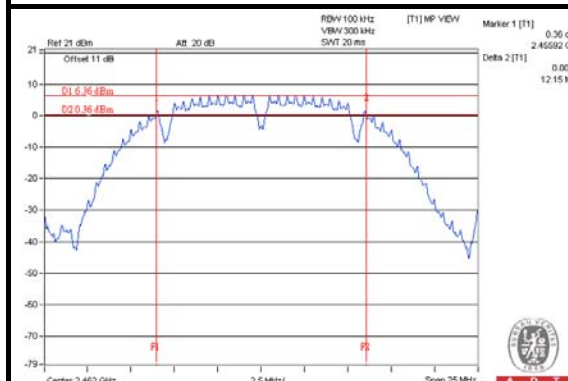
| CHANNEL | FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | MINIMUM LIMIT (MHz) | PASS / FAIL |
|---------|-----------------|---------------------|---------------------|-------------|
| 1       | 2412            | 17.33               | 0.5                 | PASS        |
| 6       | 2437            | 17.12               | 0.5                 | PASS        |
| 11      | 2462            | 17.35               | 0.5                 | PASS        |

##### 802.11n (40MHz)

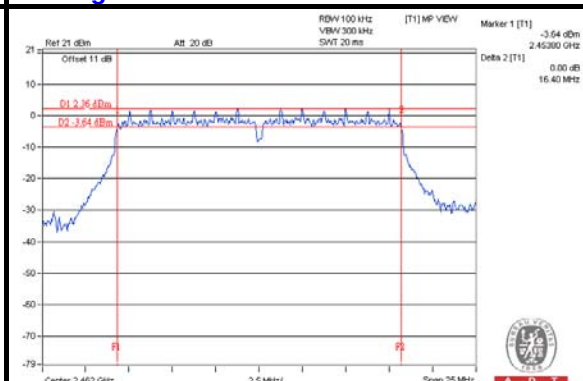
| CHANNEL | FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | MINIMUM LIMIT (MHz) | PASS / FAIL |
|---------|-----------------|---------------------|---------------------|-------------|
| 3       | 2422            | 35.71               | 0.5                 | PASS        |
| 6       | 2437            | 35.74               | 0.5                 | PASS        |
| 9       | 2452            | 35.90               | 0.5                 | PASS        |

# SPECTRUM PLOT OF WORST VALUE

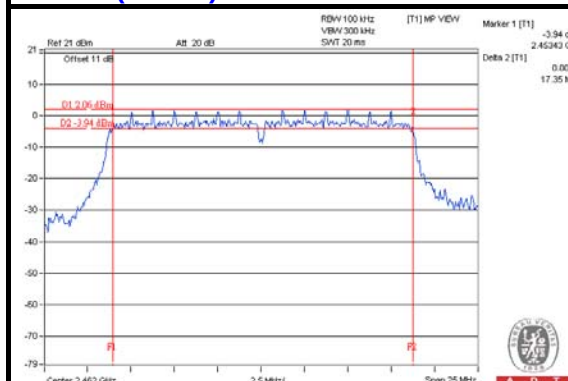
802.11b



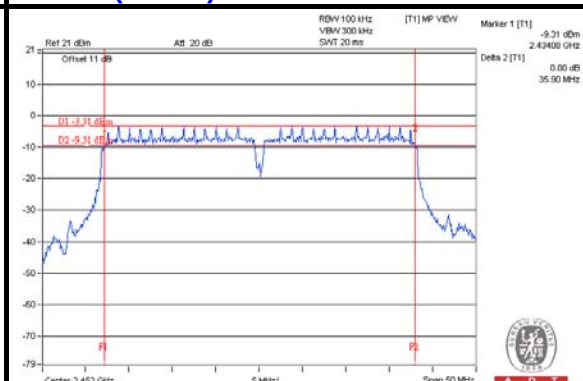
802.11g



802.11n (20MHz)



802.11n (40MHz)

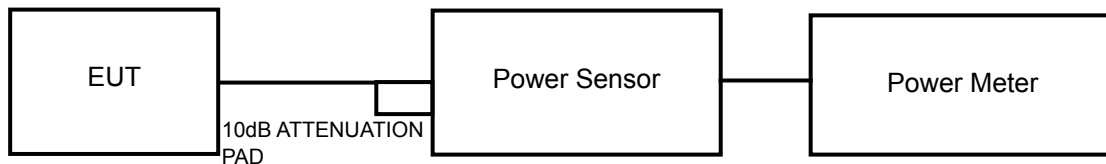


## 4.4 CONDUCTED OUTPUT POWER

### 4.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30dBm)

### 4.4.2 TEST SETUP



### 4.4.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

### 4.4.4 TEST PROCEDURES

A peak / average power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak / average power sensor. Record the power level.

### 4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

### 4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6.

#### 4.4.7 TEST RESULTS

##### FOR PEAK POWER

##### 802.11b

| CHANNEL | FREQUENCY (MHz) | PEAK POWER (mW) | PEAK POWER (dBm) | LIMIT (dBm) | PASS/FAIL |
|---------|-----------------|-----------------|------------------|-------------|-----------|
| 1       | 2412            | 248.313         | 23.95            | 30          | PASS      |
| 6       | 2437            | 155.239         | 21.91            | 30          | PASS      |
| 11      | 2462            | 95.060          | 19.78            | 30          | PASS      |

##### 802.11g

| CHANNEL | FREQUENCY (MHz) | PEAK POWER (mW) | PEAK POWER (dBm) | LIMIT (dBm) | PASS/FAIL |
|---------|-----------------|-----------------|------------------|-------------|-----------|
| 1       | 2412            | 271.644         | 24.34            | 30          | PASS      |
| 6       | 2437            | 266.073         | 24.25            | 30          | PASS      |
| 11      | 2462            | 142.561         | 21.54            | 30          | PASS      |

##### 802.11n (20MHz)

| CHANNEL | FREQUENCY (MHz) | PEAK POWER (mW) | PEAK POWER (dBm) | LIMIT (dBm) | PASS/FAIL |
|---------|-----------------|-----------------|------------------|-------------|-----------|
| 1       | 2412            | 251.768         | 24.01            | 30          | PASS      |
| 6       | 2437            | <b>293.765</b>  | 24.68            | 30          | PASS      |
| 11      | 2462            | 144.212         | 21.59            | 30          | PASS      |

##### 802.11n (40MHz)

| CHANNEL | FREQUENCY (MHz) | PEAK POWER (mW) | PEAK POWER (dBm) | LIMIT (dBm) | PASS/FAIL |
|---------|-----------------|-----------------|------------------|-------------|-----------|
| 3       | 2422            | 172.187         | 22.36            | 30          | PASS      |
| 6       | 2437            | 172.982         | 22.38            | 30          | PASS      |
| 9       | 2452            | 104.713         | 20.20            | 30          | PASS      |

## FOR AVERAGE POWER

### 802.11b

| CHANNEL | FREQUENCY (MHz) | AVERAGE POWER (mW) | AVERAGE POWER (dBm) |
|---------|-----------------|--------------------|---------------------|
| 1       | 2412            | 171.002            | 22.33               |
| 6       | 2437            | 94.189             | 19.74               |
| 11      | 2462            | 54.828             | 17.39               |

### 802.11g

| CHANNEL | FREQUENCY (MHz) | AVERAGE POWER (mW) | AVERAGE POWER (dBm) |
|---------|-----------------|--------------------|---------------------|
| 1       | 2412            | 66.988             | 18.26               |
| 6       | 2437            | 69.183             | 18.40               |
| 11      | 2462            | 21.827             | 13.39               |

### 802.11n (20MHz)

| CHANNEL | FREQUENCY (MHz) | AVERAGE POWER (mW) | AVERAGE POWER (dBm) |
|---------|-----------------|--------------------|---------------------|
| 1       | 2412            | 46.666             | 16.69               |
| 6       | 2437            | 68.865             | 18.38               |
| 11      | 2462            | 19.543             | 12.91               |

### 802.11n (40MHz)

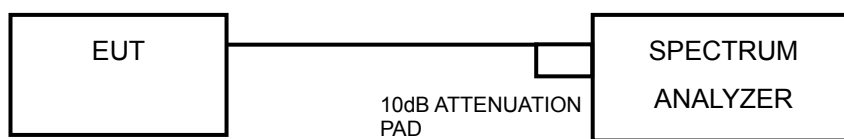
| CHANNEL | FREQUENCY (MHz) | AVERAGE POWER (mW) | AVERAGE POWER (dBm) |
|---------|-----------------|--------------------|---------------------|
| 1       | 2412            | 23.335             | 13.68               |
| 6       | 2437            | 29.174             | 14.65               |
| 11      | 2462            | 13.740             | 11.38               |

## 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 SETUP



### 4.5.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

### 4.5.4 TEST PROCEDURE

#### 4.5.5 TEST PROCEDURE

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- d) Set the VBW  $\geq 3 \times \text{RBW}$ .
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.

#### 4.5.6 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.5.7 EUT OPERATING CONDITION

Same as Item 4.3.6

#### 4.5.8 TEST RESULTS

##### 802.11b

| Channel | Freq. (MHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | PASS /FAIL |
|---------|-------------|----------------|------------------|------------|
| 1       | 2412        | -4.45          | 8                | PASS       |
| 6       | 2437        | -6.92          | 8                | PASS       |
| 11      | 2462        | -8.69          | 8                | PASS       |

##### 802.11g

| Channel | Freq. (MHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | PASS /FAIL |
|---------|-------------|----------------|------------------|------------|
| 1       | 2412        | -8.28          | 8                | PASS       |
| 6       | 2437        | -8.27          | 8                | PASS       |
| 11      | 2462        | -13.51         | 8                | PASS       |

##### 802.11n (20MHz)

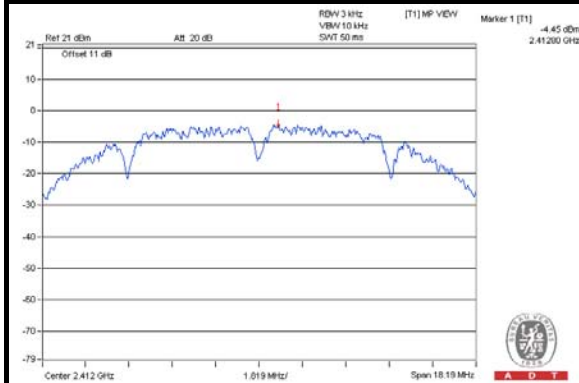
| Channel | Freq. (MHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | PASS /FAIL |
|---------|-------------|----------------|------------------|------------|
| 1       | 2412        | -9.97          | 8                | PASS       |
| 6       | 2437        | -8.35          | 8                | PASS       |
| 11      | 2462        | -13.58         | 8                | PASS       |

##### 802.11n (40MHz)

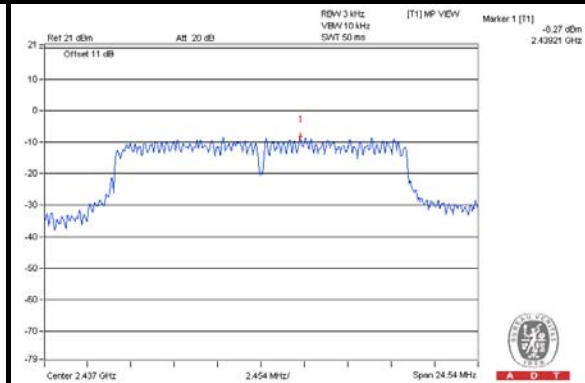
| Channel | Freq. (MHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | PASS /FAIL |
|---------|-------------|----------------|------------------|------------|
| 3       | 2422        | -17.47         | 8                | PASS       |
| 6       | 2437        | -16.30         | 8                | PASS       |
| 9       | 2452        | -19.27         | 8                | PASS       |

# SPECTRUM PLOT OF WORST VALUE

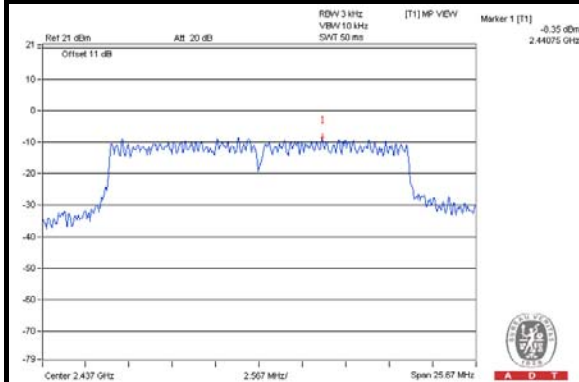
802.11b



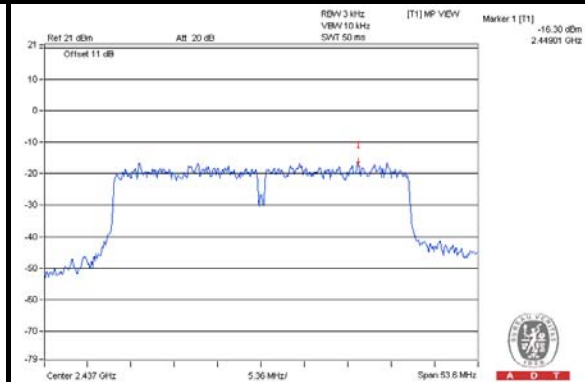
802.11g



802.11n (20MHz)



802.11n (40MHz)

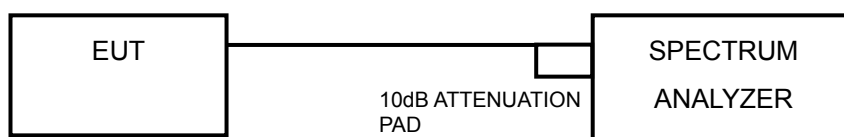


## 4.6 CONDUCTED OUT OF BAND EMISSION MEASUREMENT

### 4.6.1 LIMITS OF CONDUCTED OUT OF BAND EMISSION MEASUREMENT

Below  $-20\text{dB}$  of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

### 4.6.2 TEST SETUP



### 4.6.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

#### 4.6.4 TEST PROCEDURE

##### MEASUREMENT PROCEDURE REF

1. Set the RBW = 100 kHz.
2. Set the VBW  $\geq$  300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

##### MEASUREMENT PROCEDURE OOB

1. Set RBW = 100 kHz.
2. Set VBW  $\geq$  300 kHz.
3. Detector = peak.
4. Sweep = auto couple.
5. Trace Mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum amplitude level.

#### 4.6.5 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.6.6 EUT OPERATING CONDITION

Same as Item 4.3.6

#### 4.6.7 TEST RESULTS

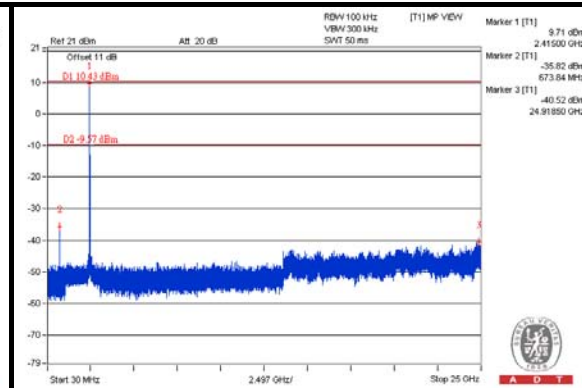
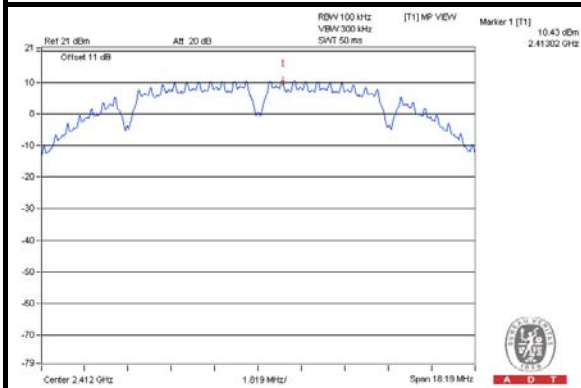
The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.



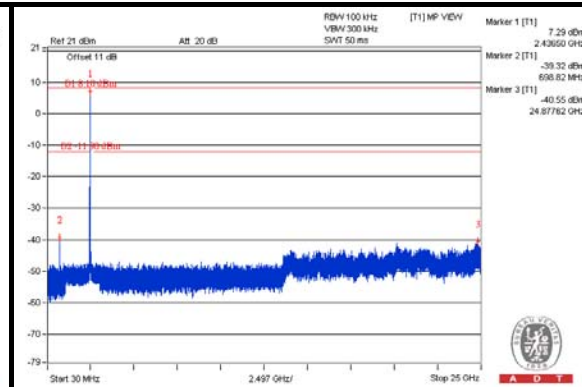
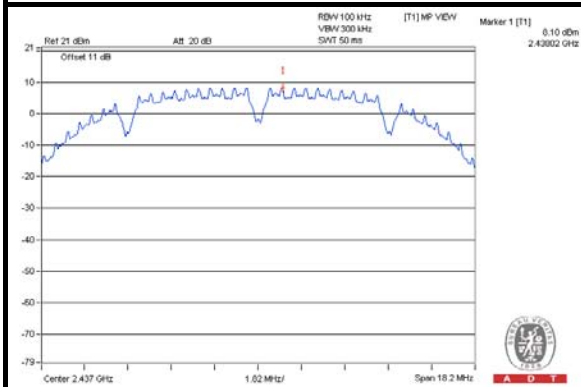
A D T

802.11b

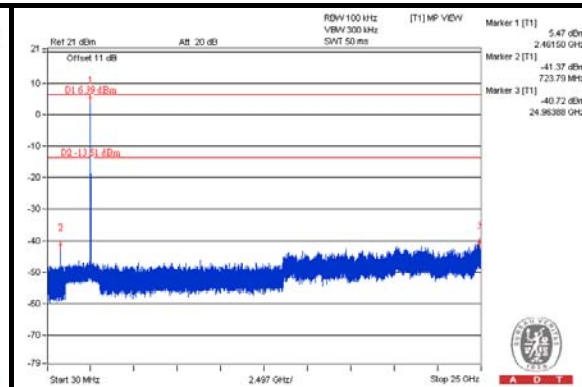
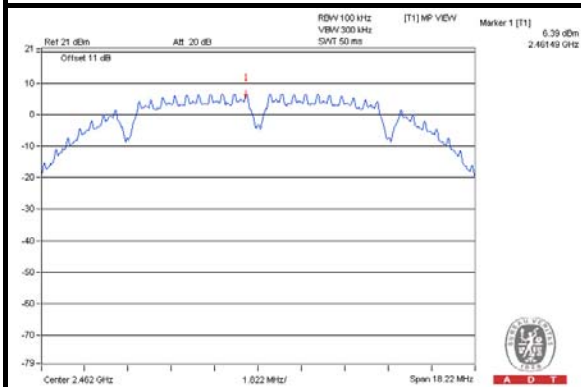
## CH 1



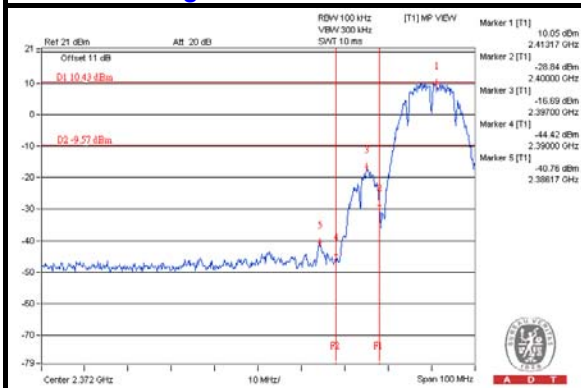
## CH 6



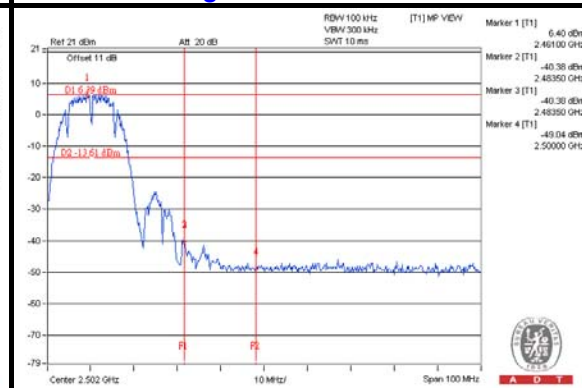
## CH 11



## CH 1 Band edge



## CH 11 Band edge

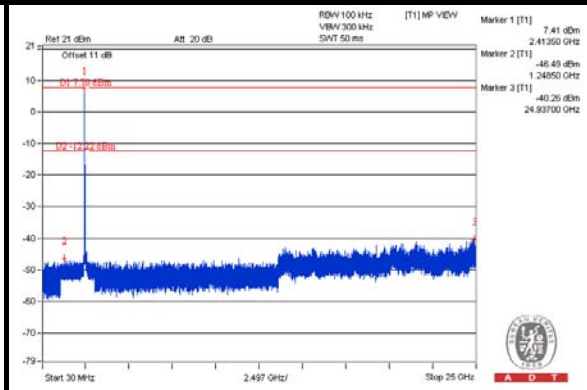
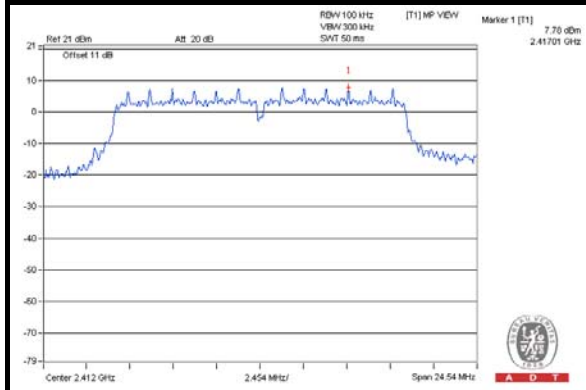




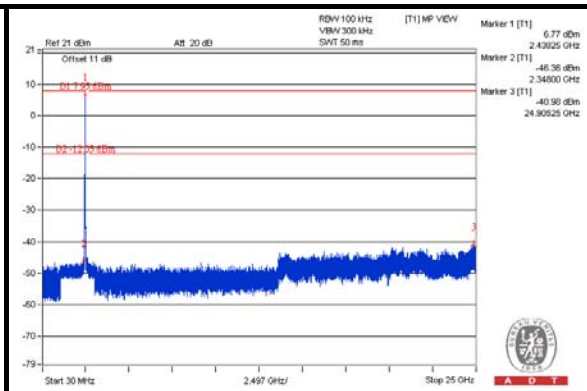
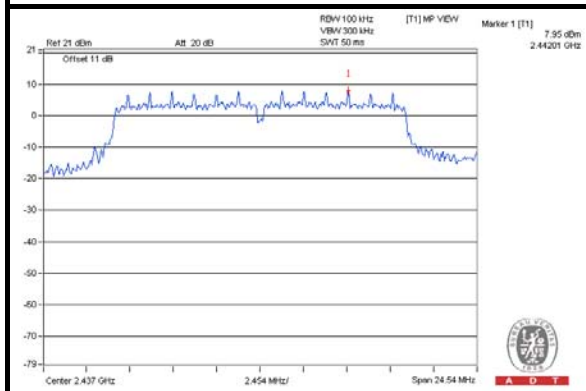
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802.11g

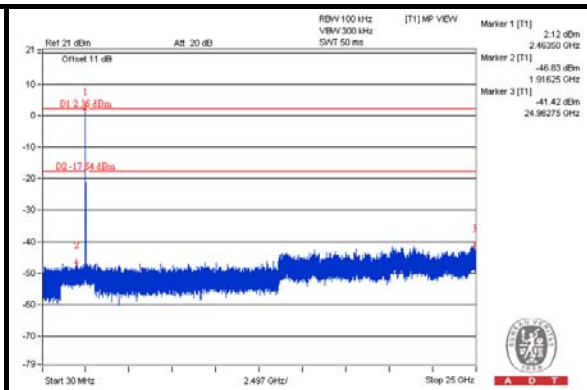
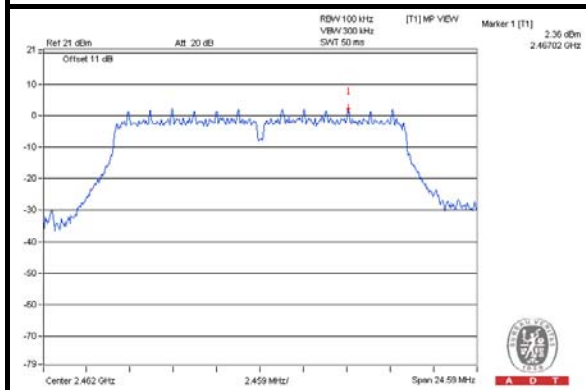
## CH 1



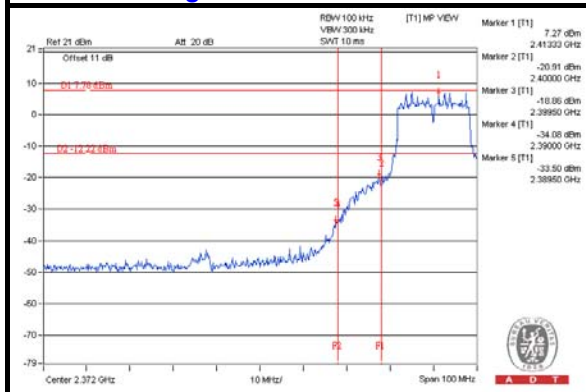
## CH 6



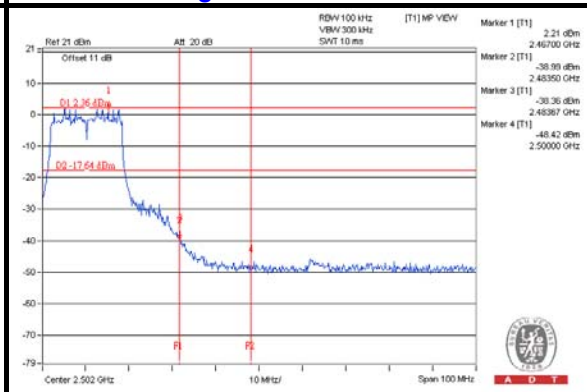
## CH 11



## CH 1 Band edge



## CH 11 Band edge

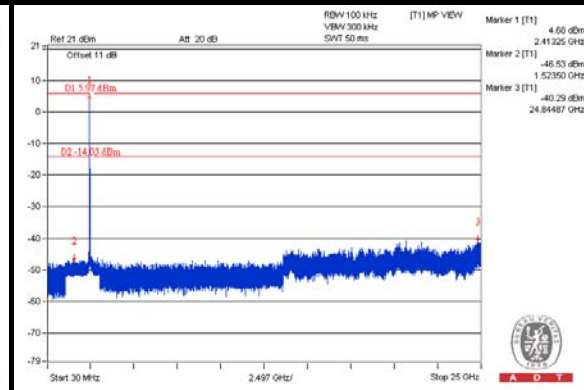
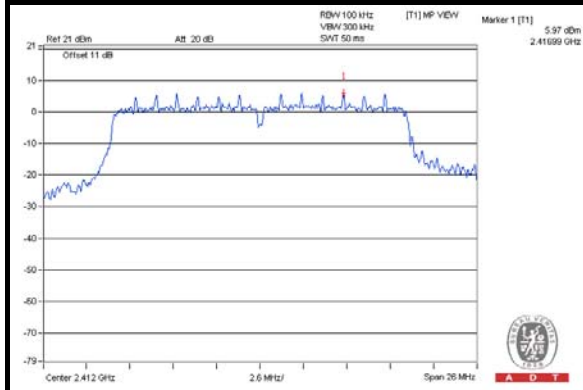




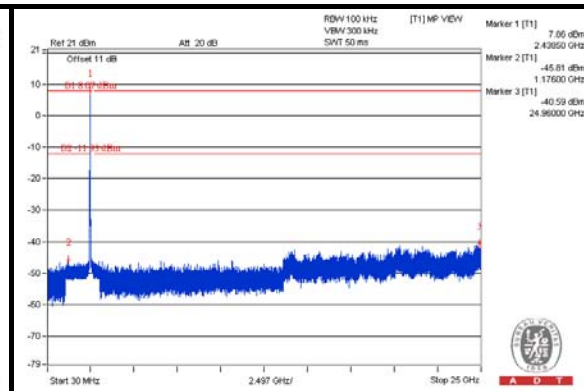
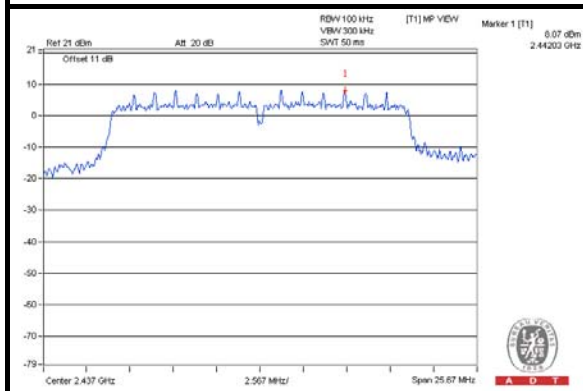
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## 802.11n (20MHz)

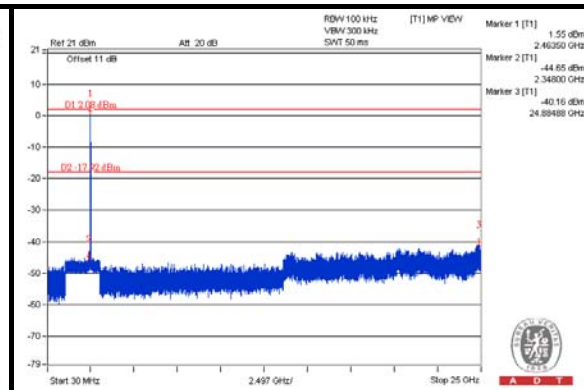
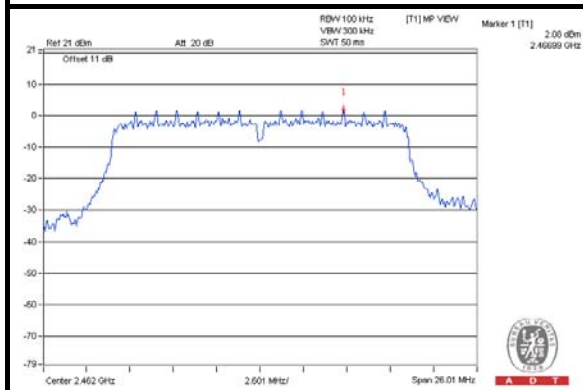
## CH 1



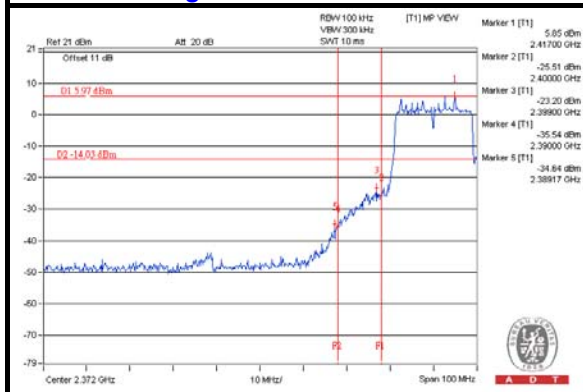
## CH 6



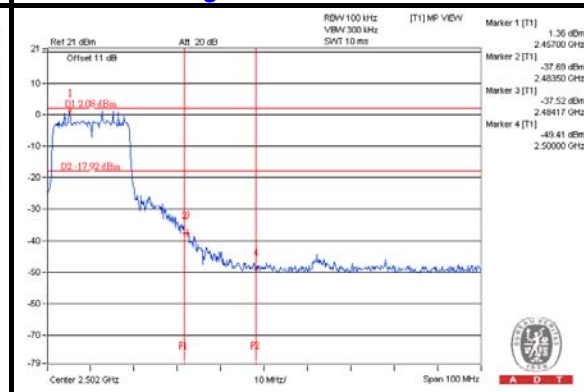
## CH 11



## CH 1 Band edge



## CH 11 Band edge

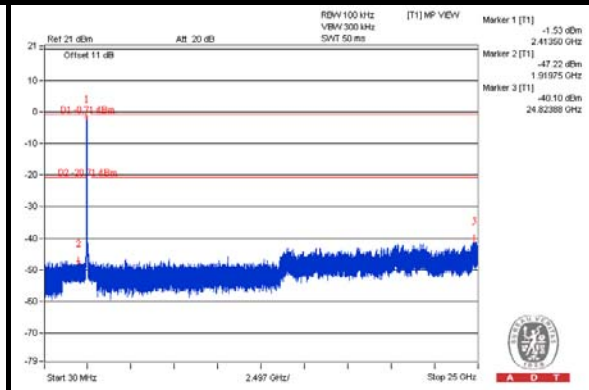
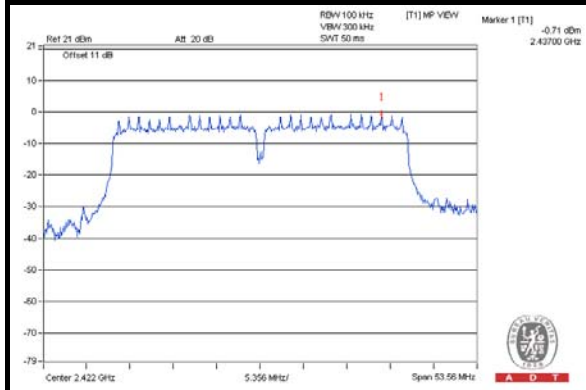




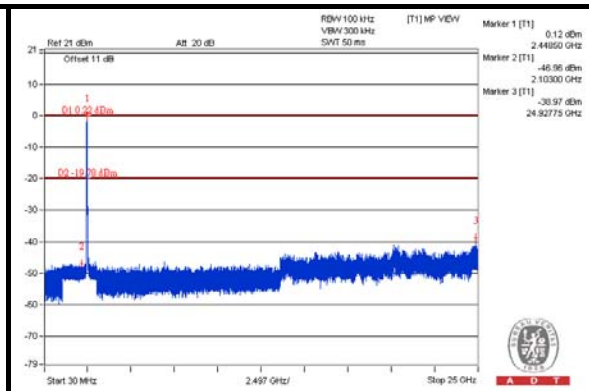
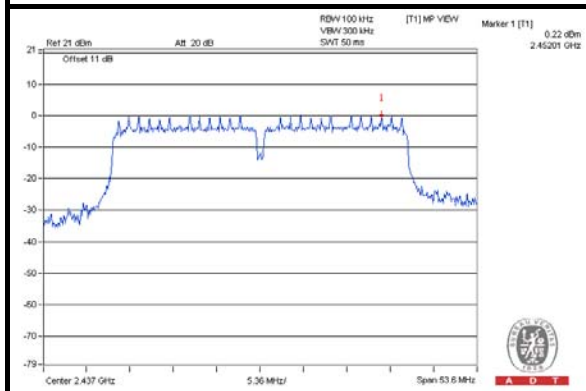
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## 802.11n (40MHz)

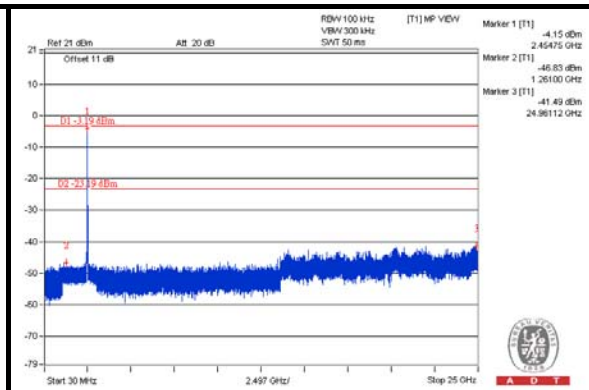
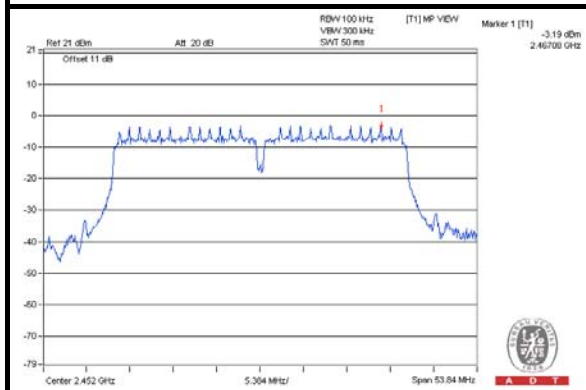
### CH 3



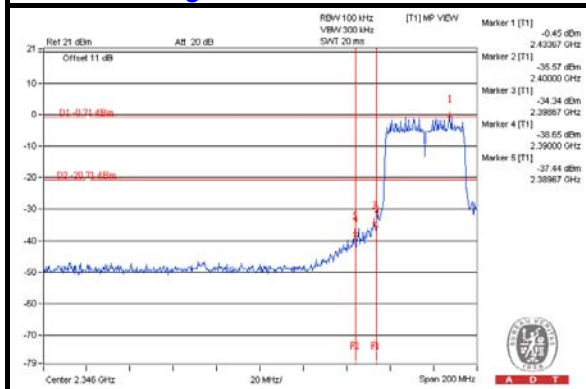
### CH 6



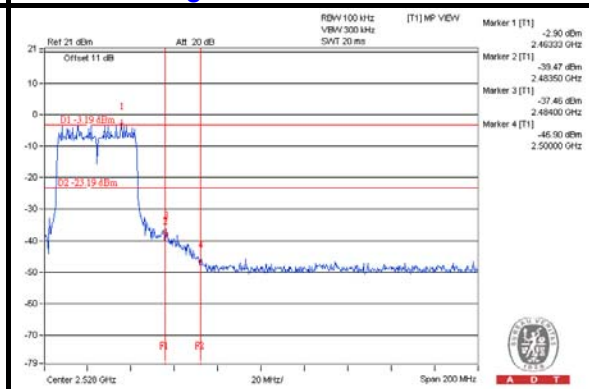
### CH 9



### CH 3 Band edge



### CH 9 Band edge



## 5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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## 6. INFORMATION ON THE TESTING LABORATORIES

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

If you have any comments, please feel free to contact us at the following:

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

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



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## **7. APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB**

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

**---END---**