



# FCC TEST REPORT (15.247)

**REPORT NO.:** RF950525L06B  
**MODEL NO.:** BW1251, BW1252  
**RECEIVED:** Mar. 22, 2007  
**TESTED:** Mar. 27 ~ Apr. 10, 2007  
**ISSUED:** Apr. 12, 2007

**APPLICANT:** Gemtek Technology Co., Ltd.

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**ISSUED BY:** Advance Data Technology Corporation

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

**PRODUCT:** Dual Radio 2.4GHz/5GHz Access Point

**MODEL:** BW1251, BW1252

**BRAND:** BROWAN

**APPLICANT:** Gemtek Technology Co., Ltd.

**TEST SAMPLE:** ENGINEERING SAMPLE

**TESTED:** Mar. 27 ~ Apr. 10, 2007

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

The above equipment (model: BW1251, BW1252) has been tested by **Advance Data Technology Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**PREPARED BY** : Rennie Wang , **DATE:** Apr. 12, 2007  
Rennie Wang

**TECHNICAL ACCEPTANCE** : Long Chen , **DATE:** Apr. 12, 2007  
Responsible for RF Long Chen

**APPROVED BY** : Gary Chang , **DATE:** Apr. 12, 2007  
Gary Chang / Supervisor

## 2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C (Section 15.247)			
Standard Section	Test Type and Limit	Result	Remark
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -1.08dB at 18.090MHz
15.247(d)	Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit. Minimum passing margin is -1.04dB at 667.63MHz
15.247(d)	Band Edge Measurement Limit: 20dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit.

### 2.1 MEASUREMENT UNCERTAINTY

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

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	3.62 dB
	200MHz ~1000MHz	3.64 dB
	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

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

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

<b>EUT</b>	Dual Radio 2.4GHz/5GHz Access Point
<b>MODEL NO.</b>	BW1251, BW1252
<b>FCC ID</b>	MXF-A950806AG
<b>POWER SUPPLY</b>	48Vdc from POE 12Vdc from AC adapter
<b>MODULATION TYPE</b>	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
<b>MODULATION TECHNOLOGY</b>	DSSS, OFDM
<b>TRANSFER RATE</b>	802.11b:11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps 802.11a: 54/48/36/24/18/12/9/6Mbps
<b>FREQUENCY RANGE</b>	802.11b & 802.11g: 2.412 ~ 2.462GHz 802.11a: 5.150 ~ 5.250GHz , 5.725 ~ 5.850GHz
<b>NUMBER OF CHANNEL</b>	802.11b & 802.11g: 11 802.11a: 8
<b>CHANNEL SPACING</b>	802.11b & 802.11g: 5MHz 802.11a: 20MHz
<b>OUTPUT POWER</b>	226.223mW for 2.4GHz (NOTE 7) 30.200mW for 5.150 ~ 5.250GHz 79.799mW for 5.725 ~ 5.850GHz
<b>ANTENNA TYPE</b>	External antenna: Dipole antenna with 2dBi gain (for 2.4 & 5.0GHz) Internal antenna: Dualband Built-in directional antenna with 6dBi gain (for 2.4GHz) Dualband Built-in directional antenna with 8dBi gain (for 5.0GHz)
<b>DATA CABLE</b>	1.6m shielded RJ45 cable without core
<b>I/O PORTS</b>	RJ45, RS232
<b>ASSOCIATED DEVICES</b>	Adapter

**NOTE:**

1. This report is issued as a supplementary report to the original ADT report no.: RF950525L06.
2. This report is prepared for FCC class II permissive change. The main change is adding external antenna to this EUT for the test. In this report, conducted, radiated emission and bandedge tests had been re-evaluated.

3. Two models are provided to this EUT. Please refer to following table for more details.

Model Name	Description
BW1251	External antenna
BW1252	External & Internal antenna

\*\*model BW1252 was chosen for final test.

4. The EUT was operated with following adapter & POEs:

Adapter	
Brand	JET UNIFIVE CO., LTD.
Model	UIT312-1210
Input Power	100-240Vac, 50-60Hz, 0.3A
Output Power	12Vdc, 1A
Power Line	1.8m non-shielded cable with one core

POE 1	
Brand	PowerDsine™ 3001
Model	PD-3001/AC
Input Power	100-250Vac, 50/60Hz, 0.5A
Output Power	48Vdc, 0.35A

POE 2	
Brand	BROWAN
Model	BE3011
Input Power	100-250Vac, 50/60Hz, 0.5A
Output Power	48Vdc, 0.35A

\*\*Two POEs are totally same and only for support unit use.

5. Internal & external antennas could not be selected separately for different Tx.

	Transmitter 1	Transmitter 2	Remark
Tx Path	Internal Antenna	Internal Antenna	Support
Tx Path	External Antenna	External Antenna	Support
Tx Path	Internal Antenna	External Antenna	not Support
Tx Path	External Antenna	Internal Antenna	not Support

6. Emission of Inter-modulation has been evaluated and is compliance with related rule.

7. Two radios are under firmware controlled not to use the same channel or a channel which are separated less than 4 channels.

8. The sum of the two biggest power value = 113.763mW (channel 4) + 112.460mW (channel 6) = 226.223mW.

9. The EUT operates in both the 5GHz and 2.4GHz Bands and compatibility with 802.11a and 802.11b, 802.11g technology.

10. The above EUT information was declared by the manufacturer and for more detailed features description, please refers to the manufacturer's specifications or User's Manual.

### 3.2 DESCRIPTION OF TEST MODES

Operated in 2400 ~ 2483.5MHz band:

11 channels are provided to the EUT:

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

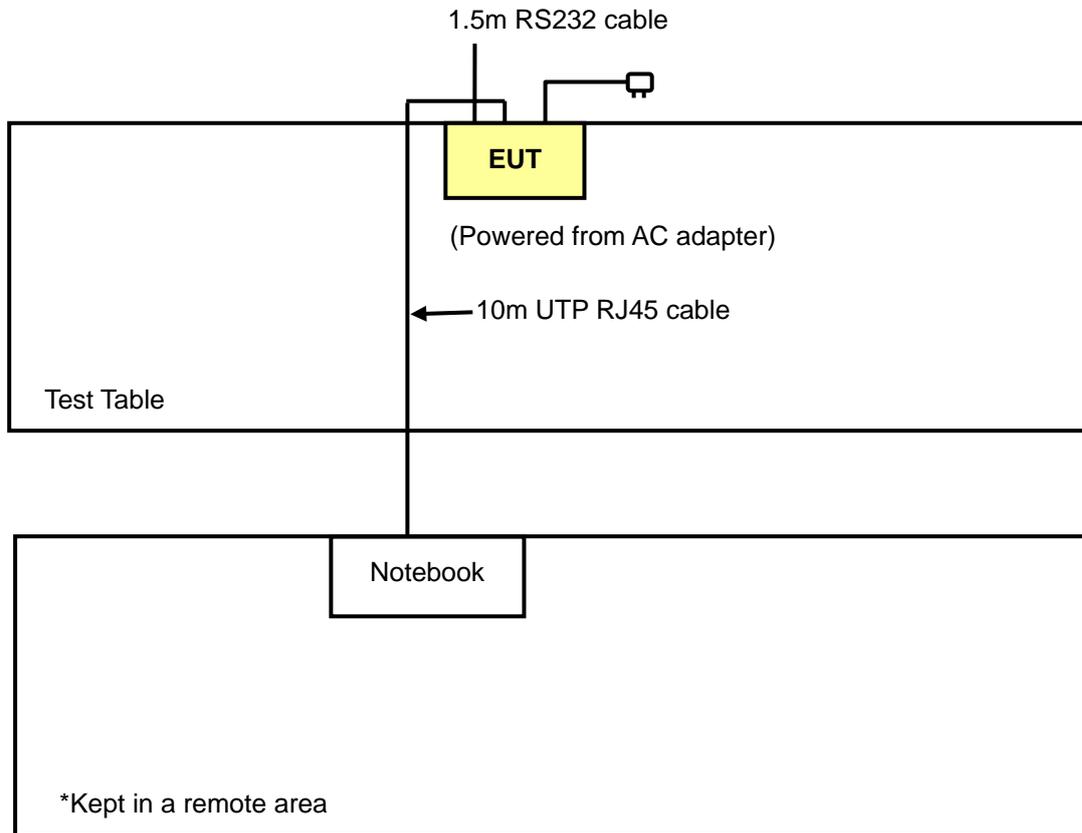
Operated in 5725 ~ 5850MHz band:

4 channels are provided to this EUT:

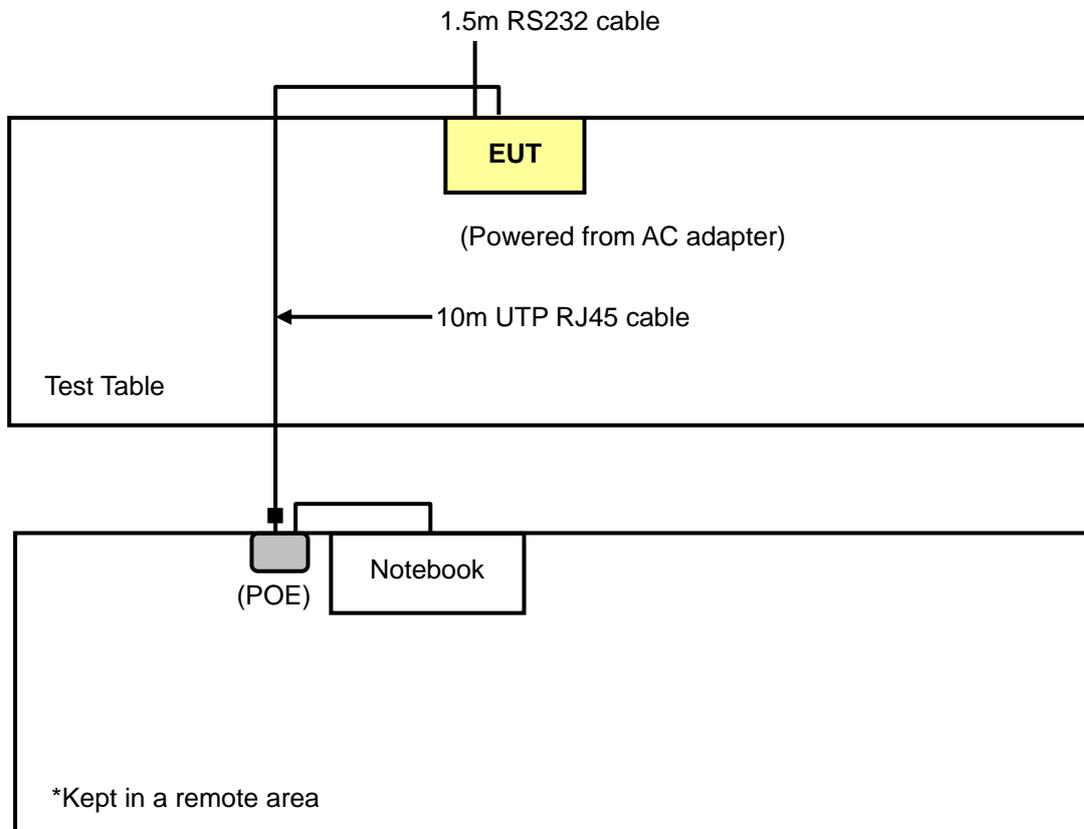
CHANNEL	FREQUENCY
1	5745 MHz
2	5765 MHz
3	5785 MHz
4	5805 MHz

### 3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

#### **Test mode A (adapter mode):**



**Test mode B (POE mode):**



### 3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	PLC	RE<1G	RE≥1G	BM	
A	√	√	-	-	Adapter mode with external antenna
B	√	√	√	√	POE mode with external antenna
C	-	-	√	√	POE mode with internal antenna

Where **PLC**: Power Line Conducted Emission  
**RE≥1G**: Radiated Emission above 1GHz

**RE<1G**: Radiated Emission below 1GHz  
**BM**: Bandedge Measurement:

#### **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 CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	TX
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	Single
A	802.11g & 802.11g	1 to 11	1 & 6, 4 & 9, 6 & 11	OFDM & OFDM	BPSK & BPSK	6 & 6	Dual
A	802.11a	1 to 4	4	OFDM	BPSK	6	Single
B	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	Single
B	802.11g & 802.11g	1 to 11	1 & 6, 4 & 9, 6 & 11	OFDM & OFDM	BPSK & BPSK	6 & 6	Dual
B	802.11a	1 to 4	4	OFDM	BPSK	6	Single

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

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

EUT CONFIG. MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	TX	AXIS
A	802.11g	1 to 11	11	OFDM	BPSK	6	Single	Z
A	802.11g & 802.11g	1 to 11	6 & 11	OFDM & OFDM	BPSK & BPSK	6 & 6	Dual	Z
A	802.11a	1 to 4	4	OFDM	BPSK	6	Single	Z
B	802.11g	1 to 11	11	OFDM	BPSK	6	Single	Z
B	802.11g & 802.11g	1 to 11	6 & 11	OFDM & OFDM	BPSK & BPSK	6 & 6	Dual	Z
B	802.11a	1 to 4	4	OFDM	BPSK	6	Single	Z

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

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

EUT CONFIG. MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	TX	AXIS
B	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1	Single	Z
B	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	Single	Z
B	802.11b & 802.11b	1 to 11	1 & 6, 4 & 9, 6 & 11	DSSS & DSSS	DBPSK & DBPSK	1 & 1	Dual	Z
B	802.11b & 802.11g	1 to 11	1 & 6, 4 & 9, 6 & 11	DSSS & OFDM	DBPSK & BPSK	1 & 6	Dual	Z
B	802.11g & 802.11b	1 to 11	1 & 6, 4 & 9, 6 & 11	OFDM & DSSS	BPSK & DBPSK	6 & 1	Dual	Z
B	802.11g & 802.11g	1 to 11	1 & 6, 4 & 9, 6 & 11	OFDM & OFDM	BPSK & BPSK	6 & 6	Dual	Z
B	802.11a	1 to 4	1, 3, 4	OFDM	BPSK	6	Single	Z
C	802.11b	1 to 11	1, 11	DSSS	DBPSK	1	Single	Z
C	802.11g	1 to 11	1, 11	OFDM	BPSK	6	Single	Z
C	802.11b & 802.11b	1 to 11	1 & 6, 6 & 11	DSSS & DSSS	DBPSK & DBPSK	1 & 1	Dual	Z
C	802.11b & 802.11g	1 to 11	1 & 6, 6 & 11	DSSS & OFDM	DBPSK & BPSK	1 & 6	Dual	Z
C	802.11g & 802.11b	1 to 11	1 & 6, 6 & 11	OFDM & DSSS	BPSK & DBPSK	6 & 1	Dual	Z
C	802.11g & 802.11g	1 to 11	1 & 6, 6 & 11	OFDM & OFDM	BPSK & BPSK	6 & 6	Dual	Z
C	802.11a	1 to 4	1, 4	OFDM	BPSK	6	Single	Z

**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 CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	TX
B	802.11b	1 to 11	1, 11	DSSS	DBPSK	1	Single
B	802.11g	1 to 11	1, 11	OFDM	BPSK	6	Single
B	802.11b & 802.11b	1 to 11	1 & 6, 6 & 11	DSSS & DSSS	DBPSK & DBPSK	1 & 1	Dual
B	802.11b & 802.11g	1 to 11	1 & 6, 6 & 11	DSSS & OFDM	DBPSK & BPSK	1 & 6	Dual
B	802.11g & 802.11b	1 to 11	1 & 6, 6 & 11	OFDM & DSSS	BPSK & DBPSK	6 & 1	Dual
B	802.11g & 802.11g	1 to 11	1 & 6, 6 & 11	OFDM & OFDM	BPSK & BPSK	6 & 6	Dual
B	802.11a	1 to 4	1, 4	OFDM	BPSK	6	Single
C	802.11b	1 to 11	1, 11	DSSS	DBPSK	1	Single
C	802.11g	1 to 11	1, 11	OFDM	BPSK	6	Single
C	802.11b & 802.11b	1 to 11	1 & 6, 6 & 11	DSSS & DSSS	DBPSK & DBPSK	1 & 1	Dual
C	802.11b & 802.11g	1 to 11	1 & 6, 6 & 11	DSSS & OFDM	DBPSK & BPSK	1 & 6	Dual
C	802.11g & 802.11b	1 to 11	1 & 6, 6 & 11	OFDM & DSSS	BPSK & DBPSK	6 & 1	Dual
C	802.11g & 802.11g	1 to 11	1 & 6, 6 & 11	OFDM & OFDM	BPSK & BPSK	6 & 6	Dual



### 3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

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

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

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

### 3.4 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK COMPUTER	DELL	PP05L	16484462992	E2K24CLNS
2	POE	PowerDsine™ 3001	PD-3001/AC	NA	NA

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

**NOTE 1:** All power cords of the above support units are non shielded (1.8m).

**2:** Item 1 is acted as a communication partner to transfer data.

## 4. TEST TYPES AND RESULTS (FOR 802.11b & g 2412~2462MHz BAND)

### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

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

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

#### 4.1.2 TEST INSTRUMENTS

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

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

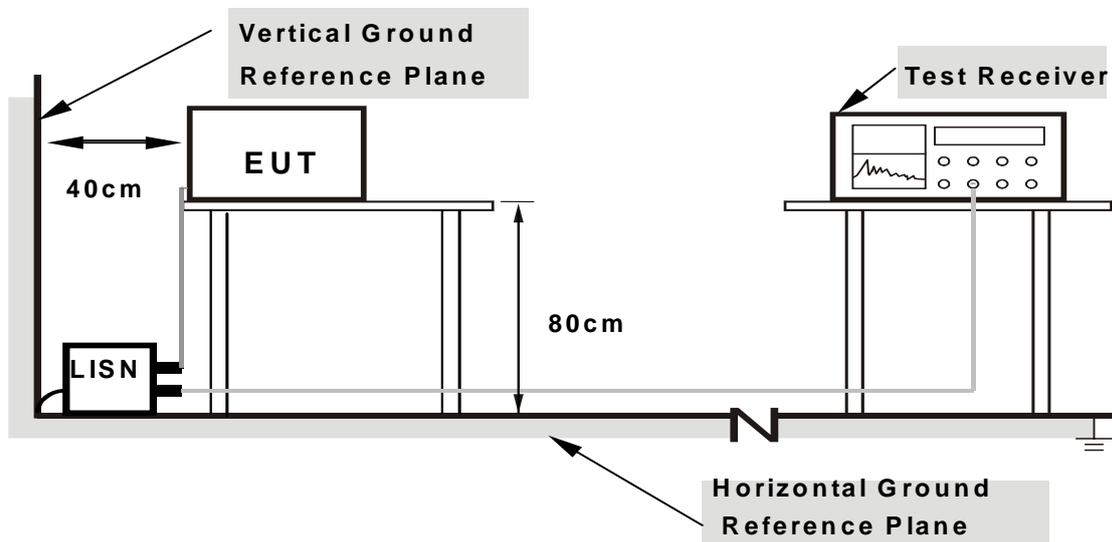
#### 4.1.3 TEST PROCEDURES

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

#### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.5 TEST SETUP



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

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

#### 4.1.6 EUT OPERATING CONDITIONS

- Placed the EUT on the testing table.
- Prepared another notebook system to act as a communication partner and placed it outside of testing area.
- The communication partner connected with EUT via a UTP cable and run a test program (provided by manufacturer) to enable EUT under transmission/receiving condition continuously at specific channel frequency.
- The communication partner sent data to EUT by command "PING".

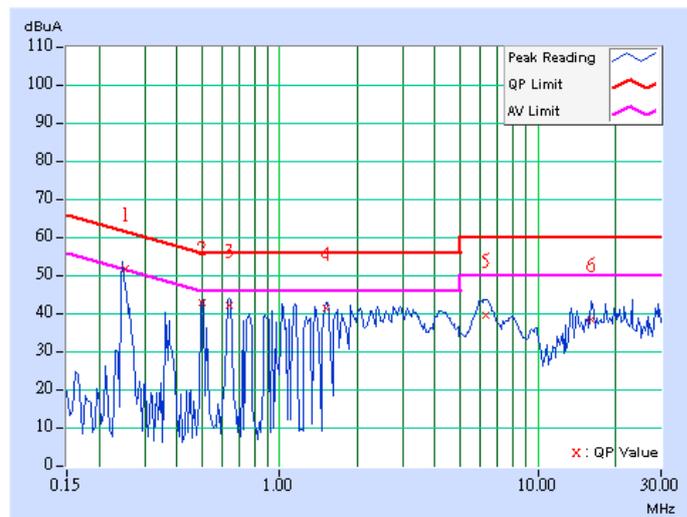
#### 4.1.7 TEST RESULTS

##### CONDUCTED WORST-CASE DATA FOR TEST MODE A (ADAPTER MODE): SINGLE TX

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

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.253	0.21	51.06	-	51.27	-	61.67
2	0.501	0.22	42.08	-	42.30	-	56.00	46.00	-13.70	-
3	0.642	0.22	41.30	-	41.52	-	56.00	46.00	-14.48	-
4	1.512	0.25	40.54	-	40.79	-	56.00	46.00	-15.21	-
5	6.293	0.45	38.66	-	39.11	-	60.00	50.00	-20.89	-
6	16.168	0.82	37.79	-	38.61	-	60.00	50.00	-21.39	-

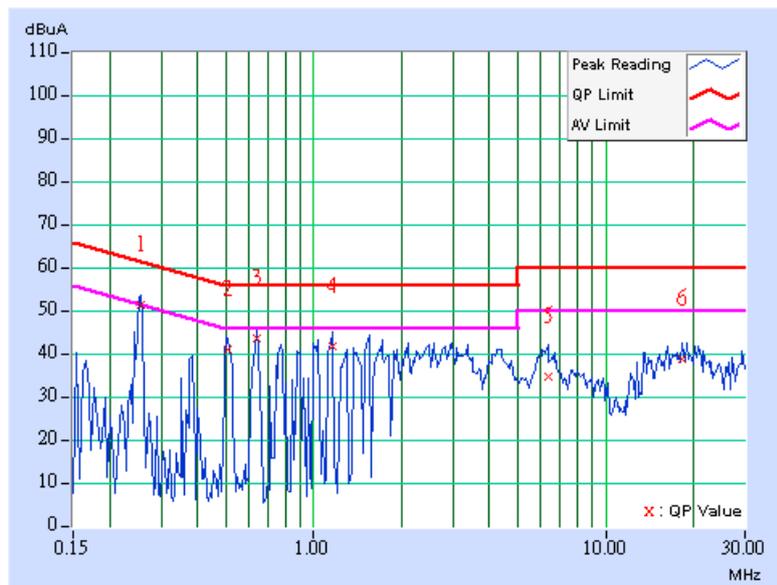
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



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

No	Freq. [MHz]	Corr. Factor (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	0.254	0.21	51.12	-	51.33	-	61.62	51.62	-10.29	-
2	0.505	0.22	40.50	-	40.72	-	56.00	46.00	-15.28	-
3	0.642	0.22	43.24	-	43.46	-	56.00	46.00	-12.54	-
4	1.156	0.24	41.53	-	41.77	-	56.00	46.00	-14.23	-
5	6.336	0.45	34.23	-	34.68	-	60.00	50.00	-25.32	-
6	18.246	0.50	38.54	-	39.04	-	60.00	50.00	-20.96	-

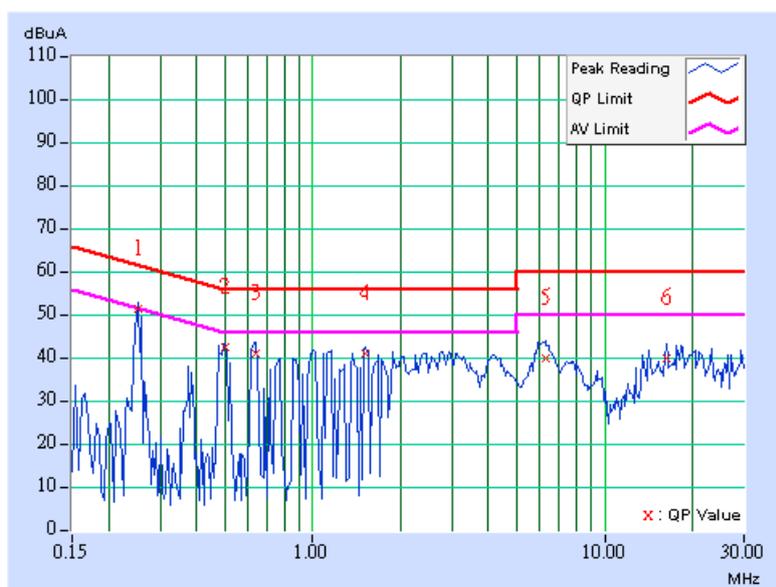
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



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

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.252	0.21	50.60	-	50.81	-	61.71	51.71	-10.90	-
2	0.500	0.22	41.94	-	42.16	-	56.00	46.00	-13.84	-
3	0.638	0.22	40.29	-	40.51	-	56.00	46.00	-15.49	-
4	1.508	0.25	40.33	-	40.58	-	56.00	46.00	-15.42	-
5	6.262	0.45	39.01	-	39.46	-	60.00	50.00	-20.54	-
6	16.230	0.82	39.09	-	39.91	-	60.00	50.00	-20.09	-

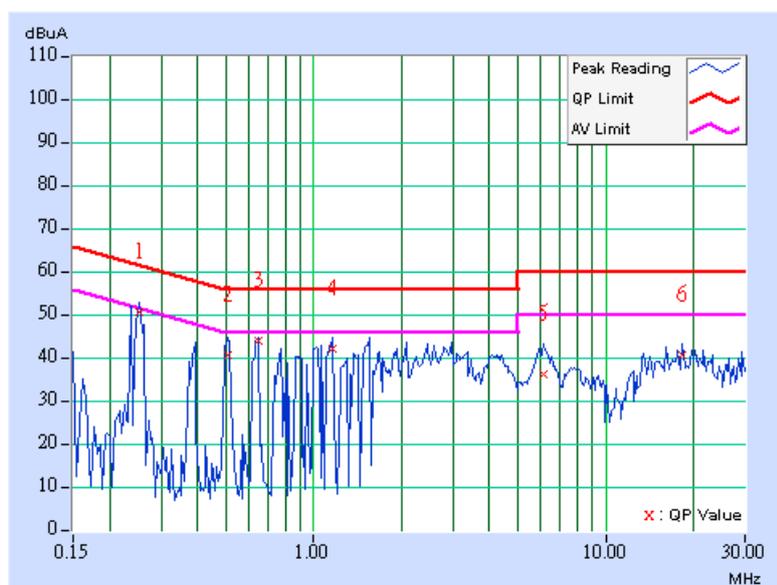
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



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

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.252	0.21	50.28	-	50.49	-	61.71	51.71	-11.22	-
2	0.509	0.22	40.24	-	40.46	-	56.00	46.00	-15.54	-
3	0.646	0.22	43.52	-	43.74	-	56.00	46.00	-12.26	-
4	1.160	0.24	41.61	-	41.85	-	56.00	46.00	-14.15	-
5	6.145	0.44	35.72	-	36.16	-	60.00	50.00	-23.84	-
6	18.242	0.50	40.20	-	40.70	-	60.00	50.00	-19.30	-

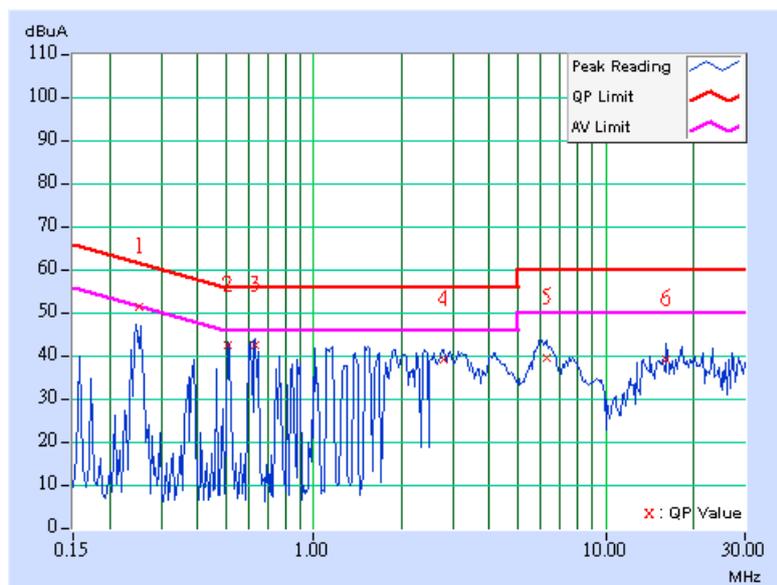
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



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

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.254	0.21	50.54	-	50.75	-	61.62	51.62	-10.87	-
2	0.505	0.22	41.75	-	41.97	-	56.00	46.00	-14.03	-
3	0.634	0.22	41.86	-	42.08	-	56.00	46.00	-13.92	-
4	2.781	0.31	38.50	-	38.81	-	56.00	46.00	-17.19	-
5	6.277	0.45	38.99	-	39.44	-	60.00	50.00	-20.56	-
6	16.168	0.82	38.39	-	39.21	-	60.00	50.00	-20.79	-

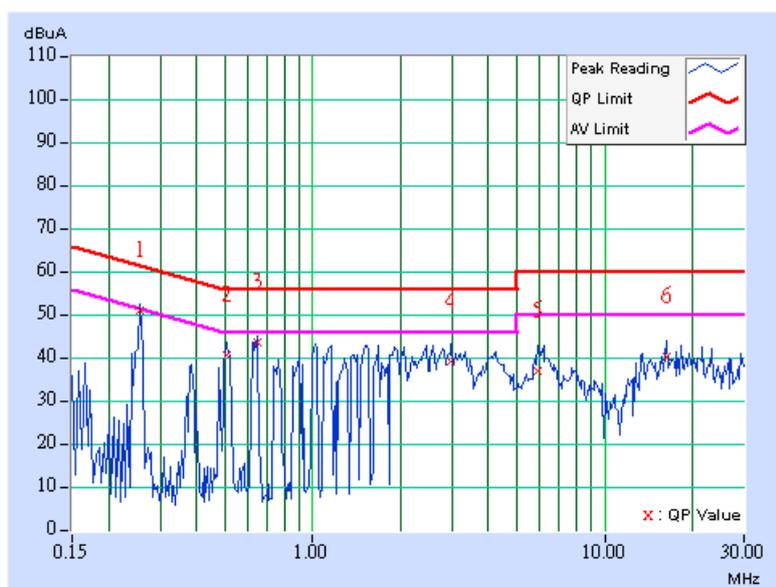
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



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

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.255	0.21	50.46	-	50.67	-	61.58	51.58	-10.91	-
2	0.505	0.22	40.30	-	40.52	-	56.00	46.00	-15.48	-
3	0.645	0.22	43.36	-	43.58	-	56.00	46.00	-12.42	-
4	2.973	0.32	38.96	-	39.28	-	56.00	46.00	-16.72	-
5	5.930	0.44	36.57	-	37.01	-	60.00	50.00	-22.99	-
6	16.227	0.47	39.80	-	40.27	-	60.00	50.00	-19.73	-

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

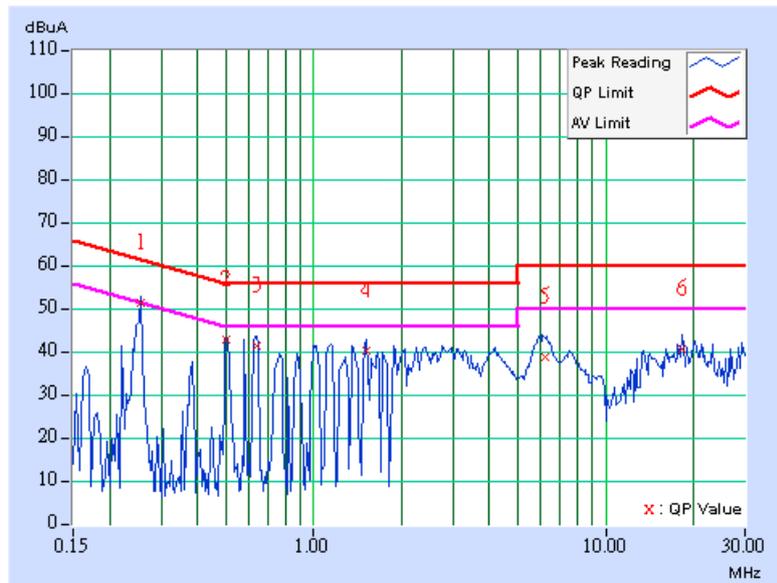


**FOR TEST MODE A (ADAPTER MODE): DUAL TX**

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

No	Freq. [MHz]	Corr. Factor (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	0.255	0.21	50.68	-	50.89	-	61.58	51.58	-10.69	-
2	0.500	0.22	41.85	-	42.07	-	56.00	46.00	-13.93	-
3	0.642	0.22	40.70	-	40.92	-	56.00	46.00	-15.08	-
4	1.523	0.25	39.48	-	39.73	-	56.00	46.00	-16.27	-
5	6.199	0.44	38.07	-	38.51	-	60.00	50.00	-21.49	-
6	18.242	0.93	39.74	-	40.67	-	60.00	50.00	-19.33	-

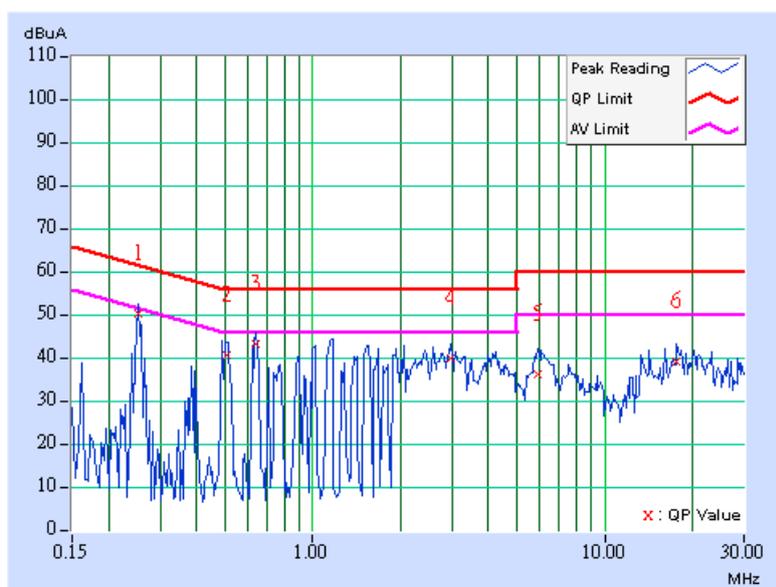
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



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

No	Freq. [MHz]	Corr. Factor (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	0.252	0.21	50.03	-	50.24	-	61.71	51.71	-11.47	-
2	0.505	0.22	40.14	-	40.36	-	56.00	46.00	-15.64	-
3	0.642	0.22	42.81	-	43.03	-	56.00	46.00	-12.97	-
4	2.965	0.32	39.47	-	39.79	-	56.00	46.00	-16.21	-
5	5.910	0.44	35.66	-	36.10	-	60.00	50.00	-23.90	-
6	17.691	0.49	38.92	-	39.41	-	60.00	50.00	-20.59	-

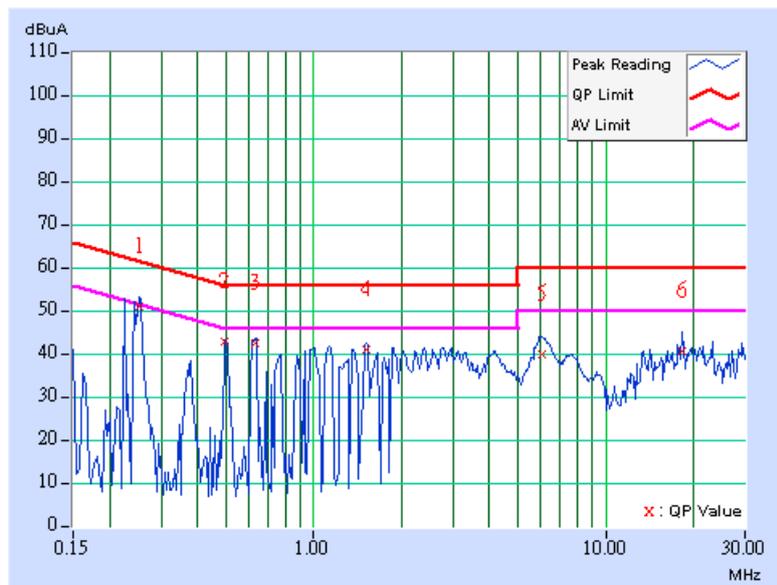
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4 & Channel 9	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

No	Freq. [MHz]	Corr. Factor (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	0.252	0.21	50.34	-	50.55	-	61.71	51.71	-11.16	-
2	0.498	0.21	41.88	-	42.09	-	56.04	46.04	-13.94	-
3	0.630	0.22	41.83	-	42.05	-	56.00	46.00	-13.95	-
4	1.516	0.25	40.06	-	40.31	-	56.00	46.00	-15.69	-
5	6.035	0.44	39.01	-	39.45	-	60.00	50.00	-20.55	-
6	18.242	0.93	39.84	-	40.77	-	60.00	50.00	-19.23	-

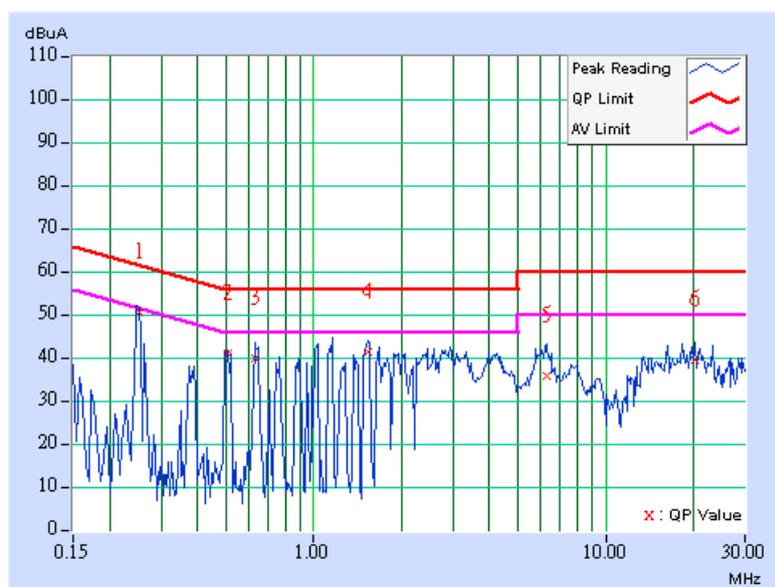
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4 & Channel 9	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

No	Freq. [MHz]	Corr. Factor (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	0.253	0.21	50.15	-	50.36	-	61.65	51.65	-11.29	-
2	0.509	0.22	40.56	-	40.78	-	56.00	46.00	-15.22	-
3	0.627	0.22	39.60	-	39.82	-	56.00	46.00	-16.18	-
4	1.543	0.25	41.09	-	41.34	-	56.00	46.00	-14.66	-
5	6.273	0.45	35.37	-	35.82	-	60.00	50.00	-24.18	-
6	20.258	0.53	39.08	-	39.61	-	60.00	50.00	-20.39	-

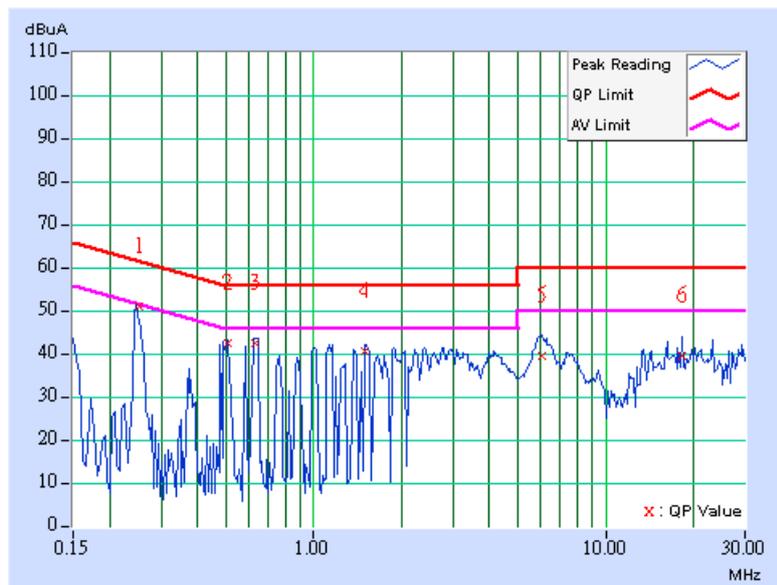
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



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

No	Freq. [MHz]	Corr. Factor (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	0.251	0.21	50.30	-	50.51	-	61.71	51.71	-11.20	-
2	0.505	0.22	41.53	-	41.75	-	56.00	46.00	-14.25	-
3	0.628	0.22	41.73	-	41.95	-	56.00	46.00	-14.05	-
4	1.492	0.25	39.67	-	39.92	-	56.00	46.00	-16.08	-
5	6.031	0.44	38.85	-	39.29	-	60.00	50.00	-20.71	-
6	18.305	0.94	38.81	-	39.75	-	60.00	50.00	-20.25	-

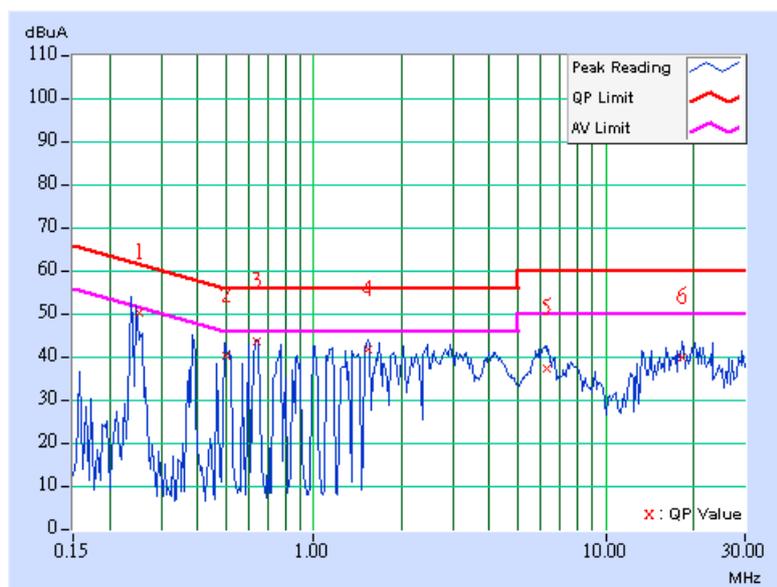
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



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

No	Freq. [MHz]	Corr. Factor (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	0.251	0.21	49.99	-	50.20	-	61.72	51.72	-11.52	-
2	0.503	0.22	40.00	-	40.22	-	56.00	46.00	-15.78	-
3	0.642	0.22	43.13	-	43.35	-	56.00	46.00	-12.65	-
4	1.543	0.25	41.21	-	41.46	-	56.00	46.00	-14.54	-
5	6.320	0.45	36.99	-	37.44	-	60.00	50.00	-22.56	-
6	18.246	0.50	39.49	-	39.99	-	60.00	50.00	-20.01	-

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

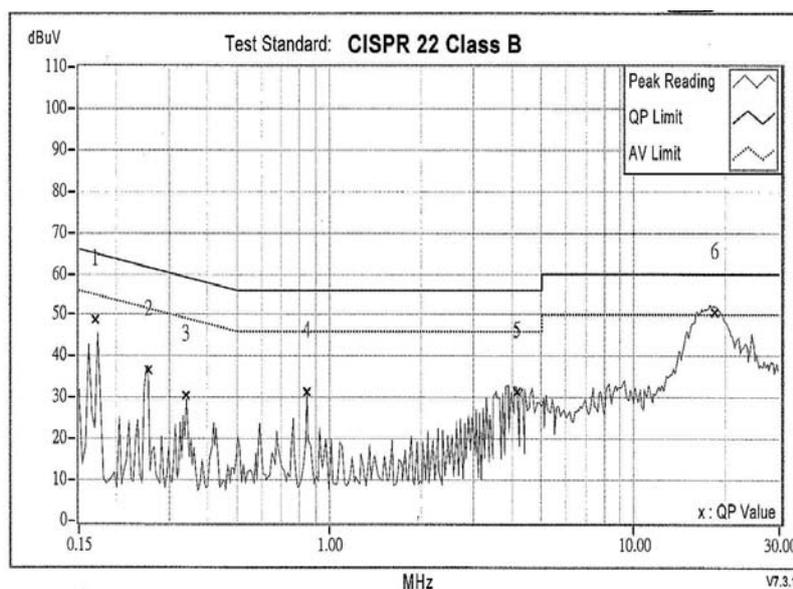


**FOR TEST MODE B (POE MODE): SINGLE TX**

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

No	Freq. [MHz]	Corr. Factor (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	0.171	0.21	47.97	-	48.18	-	64.92	54.92	-16.74	-
2	0.255	0.21	35.93	-	36.14	-	61.58	51.58	-25.44	-
3	0.339	0.21	29.70	-	29.91	-	59.23	49.23	-29.32	-
4	0.845	0.23	30.35	-	30.58	-	56.00	46.00	-25.42	-
5	4.148	0.39	30.33	-	30.72	-	56.00	46.00	-25.28	-
6	18.305	0.94	49.68	-	50.62	-	60.00	50.00	-9.38	-

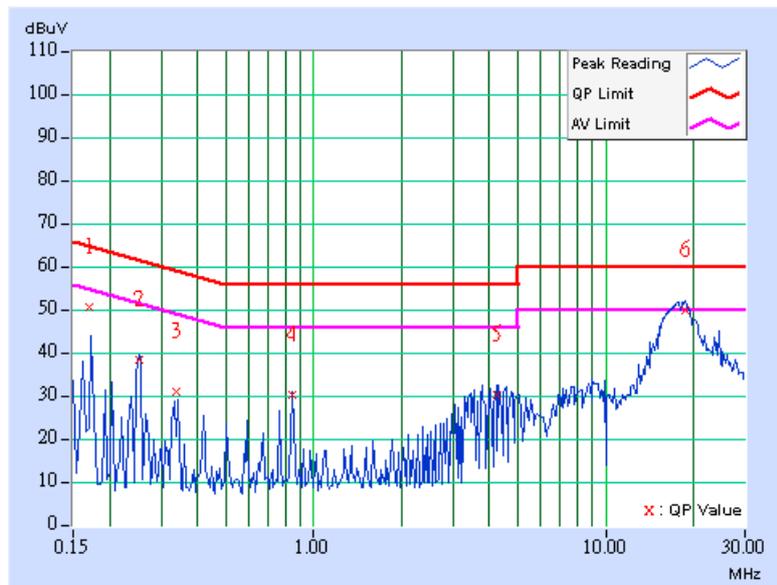
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



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

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.169	0.21	50.21	-	50.42	-	64.99	54.99	-14.57	-
2	0.252	0.21	37.85	-	38.06	-	61.71	51.71	-23.65	-
3	0.339	0.21	30.77	-	30.98	-	59.23	49.23	-28.25	-
4	0.845	0.23	30.01	-	30.24	-	56.00	46.00	-25.76	-
5	4.219	0.40	29.95	-	30.35	-	56.00	46.00	-25.65	-
6	18.731	0.51	49.41	-	49.92	-	60.00	50.00	-10.08	-

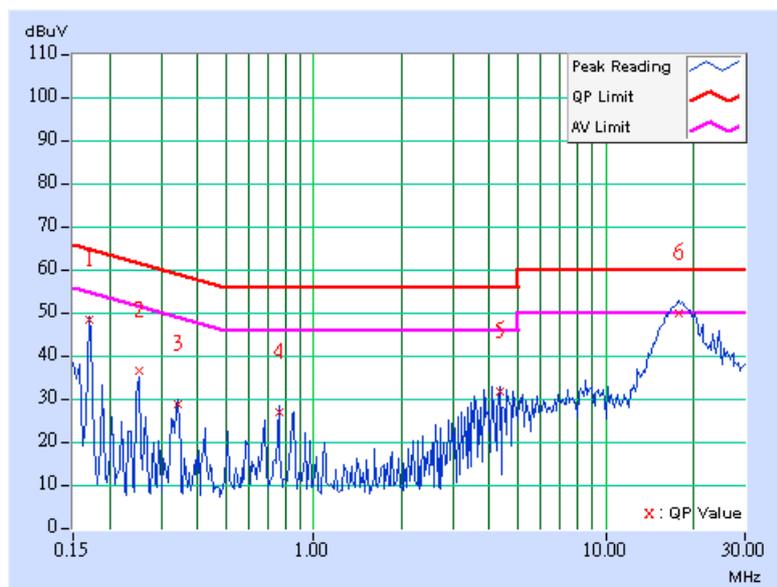
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



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

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.21	47.50	-	47.71	-	64.98	54.98	-17.28	-
2	0.253	0.21	35.63	-	35.84	-	61.66	51.66	-25.82	-
3	0.341	0.21	28.15	-	28.36	-	59.17	49.17	-30.81	-
4	0.763	0.23	26.16	-	26.39	-	56.00	46.00	-29.61	-
5	4.324	0.40	31.03	-	31.43	-	56.00	46.00	-24.57	-
6	17.869	0.91	49.22	47.82	50.13	48.73	60.00	50.00	-9.87	-1.27

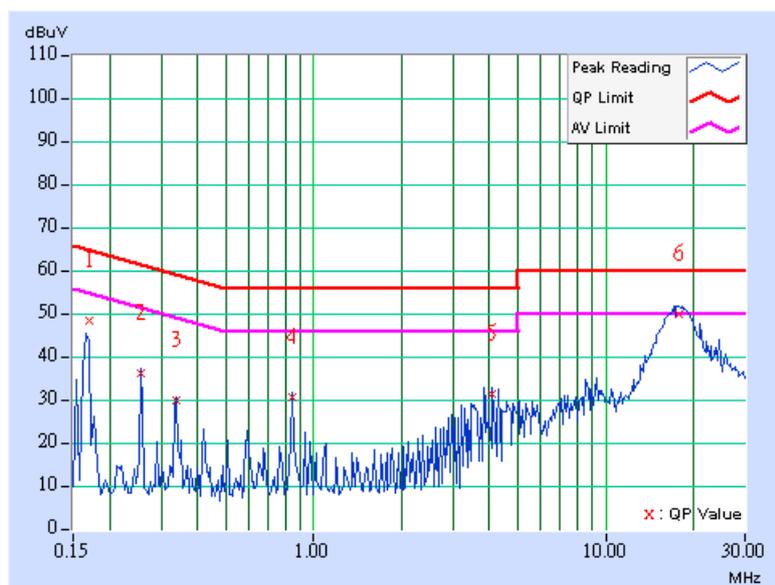
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



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

No	Freq. [MHz]	Corr. Factor (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	0.169	0.21	47.99	-	48.20	-	64.99	54.99	-16.79	-
2	0.255	0.21	35.63	-	35.84	-	61.58	51.58	-25.74	-
3	0.340	0.21	29.42	-	29.63	-	59.20	49.20	-29.57	-
4	0.849	0.23	30.25	-	30.48	-	56.00	46.00	-25.52	-
5	4.066	0.39	30.99	-	31.38	-	56.00	46.00	-24.62	-
6	17.872	0.50	49.53	48.24	50.03	48.74	60.00	50.00	-9.97	-1.26

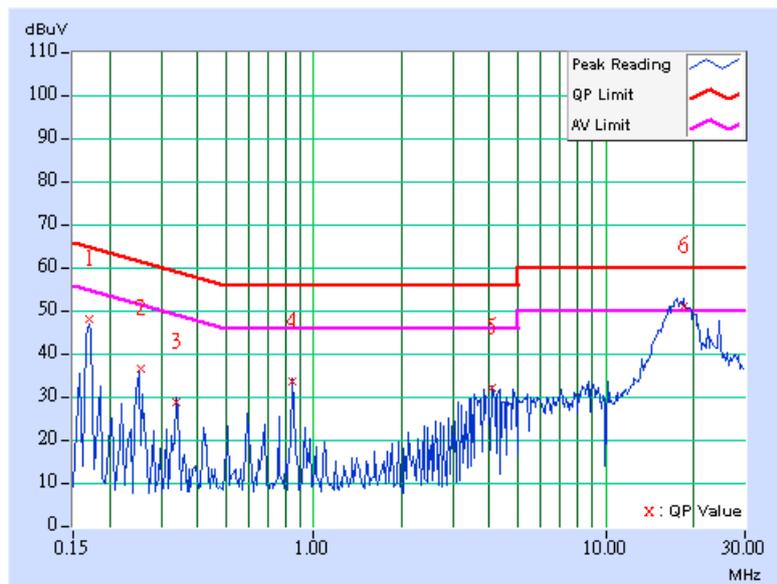
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



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

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.21	47.04	-	47.25	-	64.98	54.98	-17.74	-
2	0.255	0.21	35.55	-	35.76	-	61.58	51.58	-25.82	-
3	0.338	0.21	28.03	-	28.24	-	59.26	49.26	-31.02	-
4	0.849	0.23	32.67	-	32.90	-	56.00	46.00	-23.10	-
5	4.074	0.39	31.32	-	31.71	-	56.00	46.00	-24.29	-
6	18.414	0.94	50.16	47.39	51.10	48.33	60.00	50.00	-8.90	-1.67

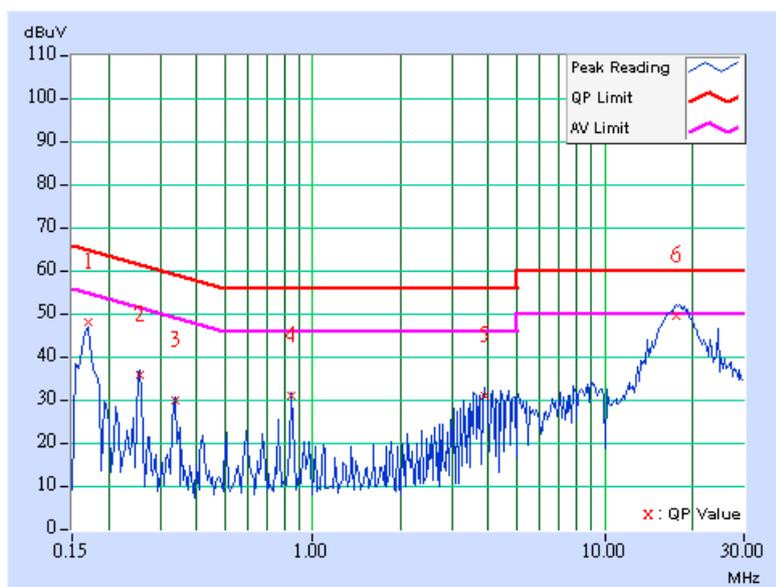
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



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

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.21	47.62	-	47.83	-	64.98	54.98	-17.16	-
2	0.255	0.21	35.32	-	35.53	-	61.58	51.58	-26.05	-
3	0.340	0.21	29.36	-	29.57	-	59.20	49.20	-29.63	-
4	0.849	0.23	30.75	-	30.98	-	56.00	46.00	-25.02	-
5	3.904	0.38	30.47	-	30.85	-	56.00	46.00	-25.15	-
6	17.547	0.49	49.12	-	49.61	-	60.00	50.00	-10.39	-

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

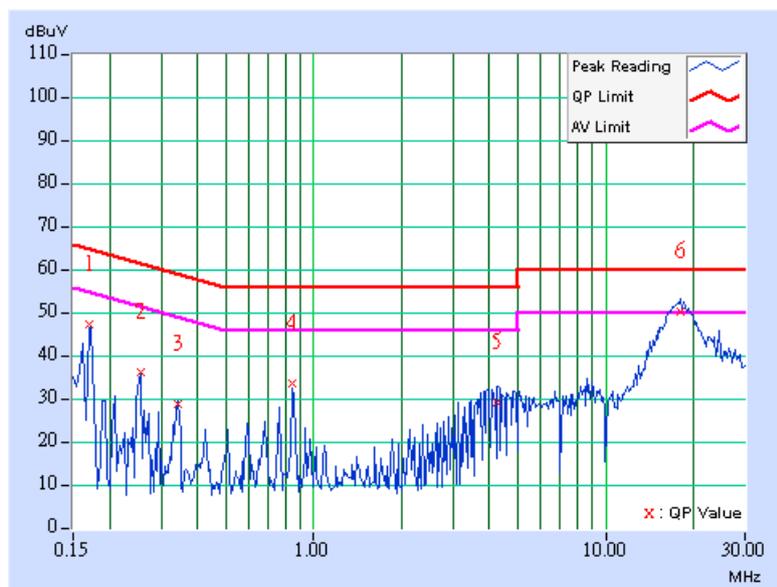


### FOR TEST MODE B (POE MODE): DUAL TX

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

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.171	0.21	46.64	-	46.85	-	64.92
2	0.255	0.21	35.34	-	35.55	-	61.58	51.58	-26.03	-
3	0.341	0.21	28.07	-	28.28	-	59.17	49.17	-30.89	-
4	0.849	0.23	32.77	-	33.00	-	56.00	46.00	-23.00	-
5	4.246	0.40	28.22	-	28.62	-	56.00	46.00	-27.38	-
6	18.090	0.92	49.46	48.00	50.38	48.92	60.00	50.00	-9.62	-1.08

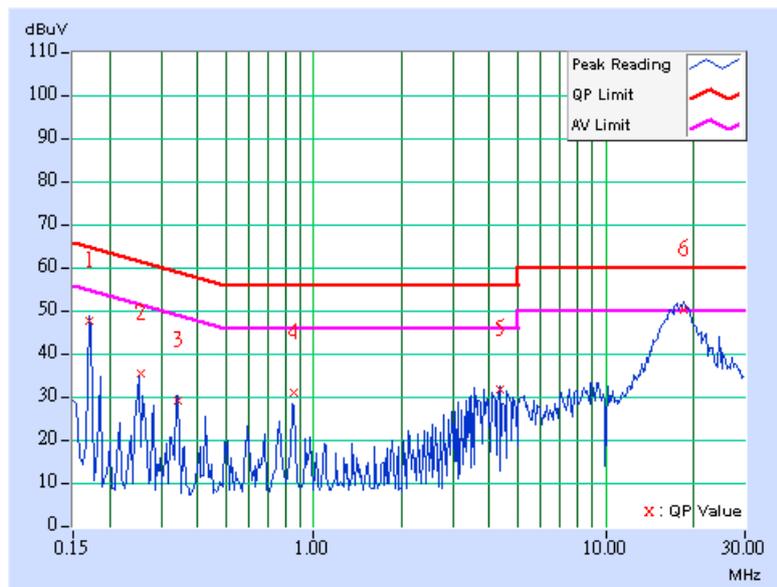
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



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

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.21	47.30	-	47.51	-	64.98	54.98	-17.48	-
2	0.255	0.21	35.08	-	35.29	-	61.58	51.58	-26.29	-
3	0.341	0.21	28.88	-	29.09	-	59.17	49.17	-30.08	-
4	0.850	0.23	30.61	-	30.84	-	56.00	46.00	-25.16	-
5	4.331	0.40	31.48	-	31.88	-	56.00	46.00	-24.12	-
6	18.414	0.50	49.74	48.33	50.24	48.83	60.00	50.00	-9.76	-1.17

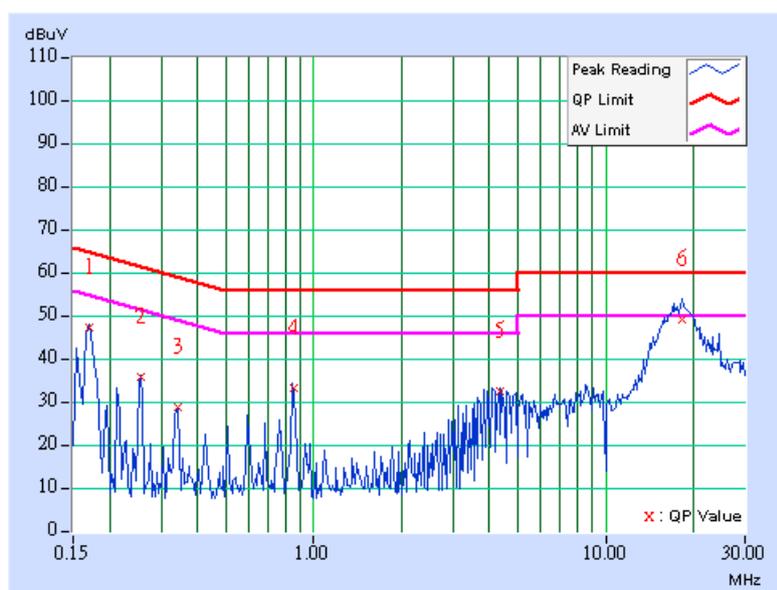
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4 & Channel 9	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.21	46.50	-	46.71	-	64.98	54.98	-18.28	-
2	0.255	0.21	35.12	-	35.33	-	61.58	51.58	-26.25	-
3	0.341	0.21	27.99	-	28.20	-	59.17	49.17	-30.97	-
4	0.852	0.23	32.55	-	32.78	-	56.00	46.00	-23.22	-
5	4.336	0.40	31.58	-	31.98	-	56.00	46.00	-24.02	-
6	18.306	0.94	48.36	-	49.30	-	60.00	50.00	-10.70	-

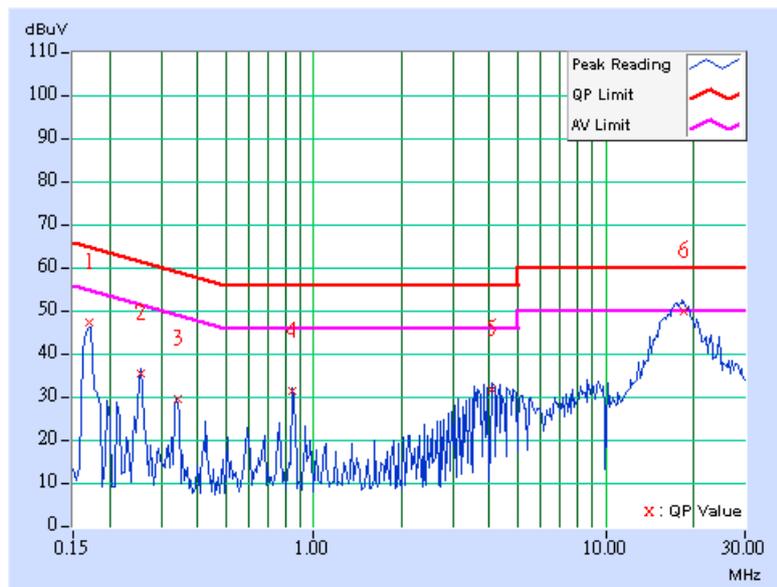
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4 & Channel 9	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.170	0.21	47.08	-	47.29	-	64.98
2	0.255	0.21	34.87	-	35.08	-	61.58	51.58	-26.50	-
3	0.341	0.21	28.96	-	29.17	-	59.17	49.17	-30.00	-
4	0.849	0.23	30.85	-	31.08	-	56.00	46.00	-24.92	-
5	4.078	0.39	31.28	-	31.67	-	56.00	46.00	-24.33	-
6	18.415	0.50	49.53	48.15	50.03	48.65	60.00	50.00	-9.97	-1.35

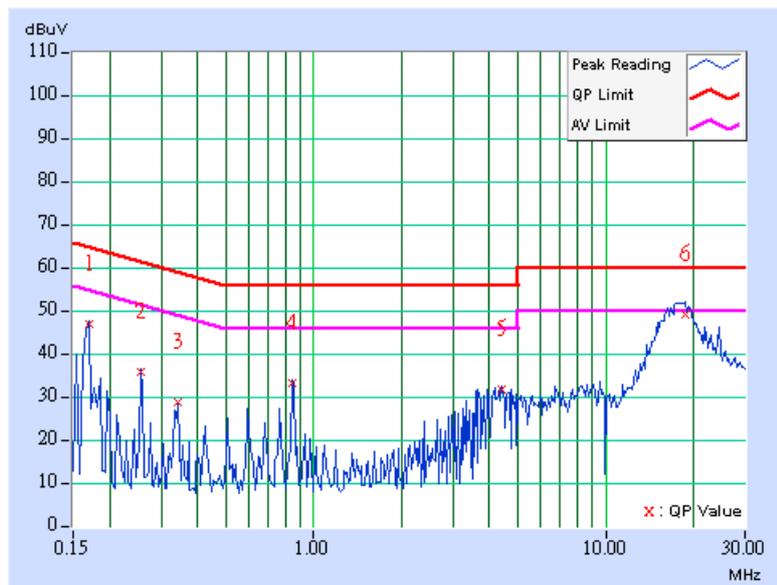
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



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

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.21	46.23	-	46.44	-	64.98	54.98	-18.55	-
2	0.255	0.21	34.94	-	35.15	-	61.58	51.58	-26.43	-
3	0.341	0.21	27.93	-	28.14	-	59.17	49.17	-31.03	-
4	0.849	0.23	32.53	-	32.76	-	56.00	46.00	-23.24	-
5	4.426	0.40	30.93	-	31.33	-	56.00	46.00	-24.67	-
6	18.633	0.95	48.29	-	49.24	-	60.00	50.00	-10.76	-

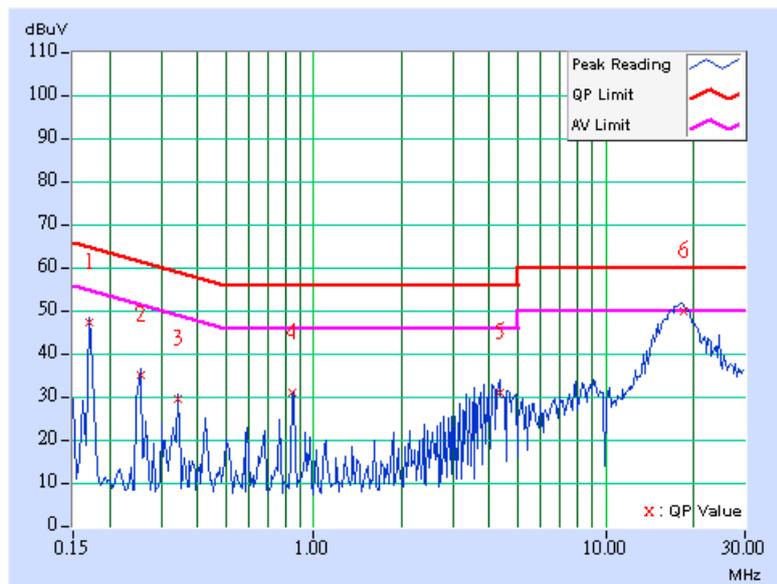
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



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

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.21	46.84	-	47.05	-	64.98	54.98	-17.94	-
2	0.255	0.21	34.65	-	34.86	-	61.58	51.58	-26.72	-
3	0.341	0.21	28.98	-	29.19	-	59.17	49.17	-29.98	-
4	0.849	0.23	30.69	-	30.92	-	56.00	46.00	-25.08	-
5	4.336	0.40	30.55	-	30.95	-	56.00	46.00	-25.05	-
6	18.414	0.50	49.57	48.22	50.07	48.72	60.00	50.00	-9.93	-1.28

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



## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

Frequencies (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

**NOTE:**

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



#### 4.2.2 TEST INSTRUMENTS

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

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

### 4.2.3 TEST PROCEDURES

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

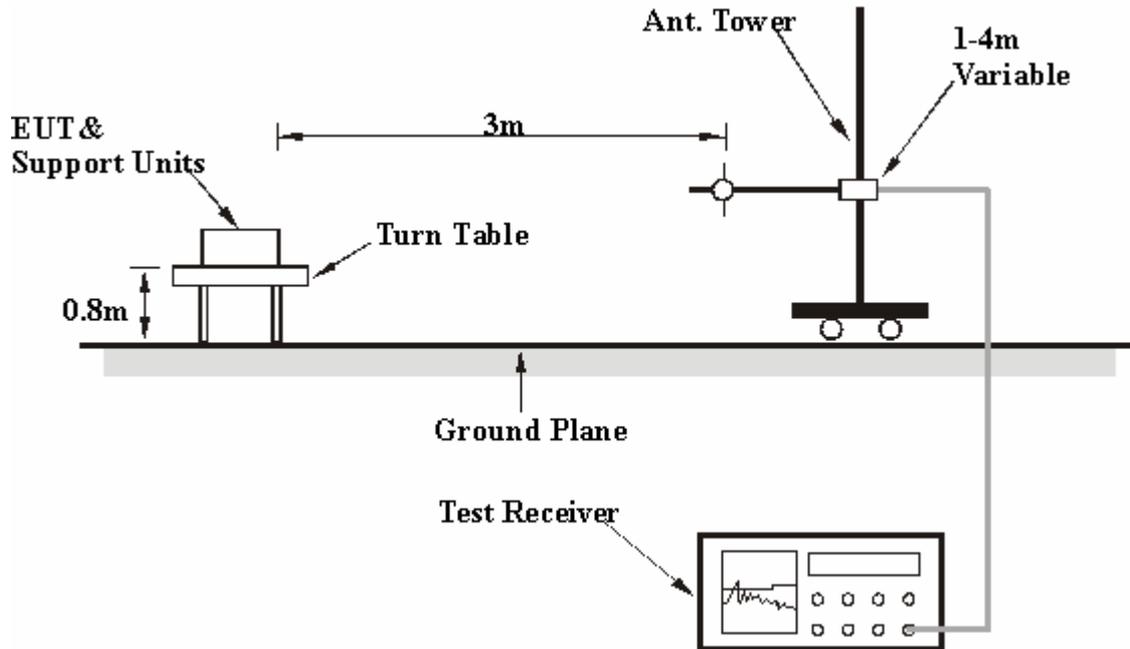
**NOTE:**

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

### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.2.5 TEST SETUP



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

#### 4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6

#### 4.2.7 TEST RESULTS

#### BELOW 1GHz WORST-CASE DATA FOR TEST MODE A (ADAPTER MODE): SINGLE TX

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	249.60	39.96 QP	46.00	-6.04	1.50 H	76	26.27	13.69
2	366.26	41.08 QP	46.00	-4.92	1.00 H	325	24.61	16.47
3	467.36	39.23 QP	46.00	-6.77	2.00 H	10	19.76	19.47
4	500.42	40.15 QP	46.00	-5.85	1.50 H	10	19.61	20.54
5	667.63	41.27 QP	46.00	-4.73	1.00 H	49	16.66	24.61
6	700.68	40.17 QP	46.00	-5.83	1.00 H	37	14.91	25.26
7	731.79	39.89 QP	46.00	-6.11	1.50 H	37	14.27	25.62
8	799.84	39.43 QP	46.00	-6.57	1.00 H	217	13.00	26.43

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	38.66 QP	40.00	-1.34	1.00 V	349	26.13	12.53
2	119.34	35.99 QP	43.50	-7.51	1.50 V	10	23.84	12.15
3	132.95	35.75 QP	43.50	-7.75	1.00 V	64	22.75	13.00
4	166.00	36.31 QP	43.50	-7.19	1.00 V	136	22.30	14.01
5	249.60	42.16 QP	46.00	-3.84	1.00 V	82	28.47	13.69
6	366.26	44.52 QP	46.00	-1.48	1.50 V	127	28.05	16.47
7	667.63	43.12 QP	46.00	-2.88	1.00 V	76	18.51	24.61
8	729.84	44.36 QP	46.00	-1.64	1.00 V	319	18.76	25.60
9	799.84	42.31 QP	46.00	-3.69	1.50 V	235	15.89	26.43
10	867.89	41.30 QP	46.00	-4.70	1.00 V	61	13.86	27.44

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

**FOR TEST MODE A (ADAPTER MODE): DUAL TX**

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	249.60	40.59 QP	46.00	-5.41	1.00 H	91	26.90	13.69
2	366.26	41.72 QP	46.00	-4.28	1.00 H	298	25.25	16.47
3	500.42	41.05 QP	46.00	-4.95	2.00 H	10	20.51	20.54
4	667.63	38.70 QP	46.00	-7.30	2.00 H	217	14.09	24.61
5	733.73	41.06 QP	46.00	-4.94	1.50 H	55	15.42	25.64
6	799.84	40.18 QP	46.00	-5.82	1.50 H	13	13.75	26.43
7	865.94	41.77 QP	46.00	-4.23	2.00 H	10	14.36	27.41
8	933.99	44.87 QP	46.00	-1.13	2.00 H	10	16.53	28.34

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	38.42 QP	40.00	-1.58	1.50 V	10	25.89	12.53
2	132.95	35.63 QP	43.50	-7.87	1.00 V	124	22.63	13.00
3	249.60	41.44 QP	46.00	-4.56	1.00 V	100	27.75	13.69
4	366.26	41.90 QP	46.00	-4.10	1.00 V	61	25.43	16.47
5	500.42	38.51 QP	46.00	-7.49	1.50 V	10	17.97	20.54
6	667.63	44.96 QP	46.00	-1.04	1.50 V	127	20.35	24.61
7	733.73	42.71 QP	46.00	-3.29	1.50 V	10	17.07	25.64
8	799.84	38.96 QP	46.00	-7.04	1.50 V	220	12.53	26.43
9	865.94	42.71 QP	46.00	-3.29	1.50 V	10	15.30	27.41
10	933.99	43.81 QP	46.00	-2.19	1.00 V	1	15.47	28.34

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

**FOR TEST MODE B (POE MODE): SINGLE TX**

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	166.00	33.03 QP	43.50	-10.47	1.50 H	94	19.02	14.01
2	366.26	41.55 QP	46.00	-4.45	1.00 H	160	25.08	16.47
3	399.31	36.06 QP	46.00	-9.94	2.50 H	10	18.74	17.31
4	500.42	40.73 QP	46.00	-5.27	2.00 H	10	20.20	20.54
5	533.47	42.08 QP	46.00	-3.92	1.50 H	37	20.69	21.39
6	667.63	38.13 QP	46.00	-7.87	1.50 H	202	13.52	24.61
7	700.68	36.57 QP	46.00	-9.43	1.50 H	10	11.32	25.26
8	799.84	43.10 QP	46.00	-2.90	1.50 H	10	16.67	26.43
9	848.45	35.57 QP	46.00	-10.43	1.00 H	181	8.44	27.13

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	53.23	38.11 QP	40.00	-1.89	1.00 V	61	23.94	14.17
2	166.00	32.77 QP	43.50	-10.73	1.00 V	196	18.76	14.01
3	366.26	37.48 QP	46.00	-8.52	1.00 V	331	21.02	16.47
4	399.31	36.32 QP	46.00	-9.68	1.50 V	241	19.01	17.31
5	500.42	36.62 QP	46.00	-9.38	1.00 V	52	16.09	20.54
6	667.63	42.79 QP	46.00	-3.21	1.00 V	118	18.18	24.61
7	700.68	37.51 QP	46.00	-8.49	1.50 V	10	12.25	25.26
8	799.84	36.70 QP	46.00	-9.30	1.50 V	10	10.27	26.43
9	900.94	39.71 QP	46.00	-6.29	1.00 V	67	11.75	27.97
10	933.99	42.90 QP	46.00	-3.10	1.50 V	10	14.56	28.34

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

**FOR TEST MODE B (POE MODE): DUAL TX**

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	199.05	34.10 QP	43.50	-9.40	1.00 H	190	22.70	11.40
2	232.11	40.01 QP	46.00	-5.99	1.00 H	190	27.15	12.86
3	366.26	38.12 QP	46.00	-7.88	1.00 H	322	21.66	16.47
4	399.31	40.96 QP	46.00	-5.04	2.00 H	169	23.64	17.31
5	432.37	37.16 QP	46.00	-8.84	2.00 H	178	18.81	18.35
6	500.42	35.47 QP	46.00	-10.53	1.50 H	229	14.93	20.54
7	564.58	35.51 QP	46.00	-10.49	1.50 H	10	13.31	22.20
8	667.63	43.78 QP	46.00	-2.22	1.00 H	154	19.16	24.61
9	700.68	35.17 QP	46.00	-10.83	1.00 H	280	9.91	25.26
10	733.73	36.68 QP	46.00	-9.32	1.00 H	43	11.04	25.64
11	799.84	41.46 QP	46.00	-4.54	1.00 H	16	15.04	26.43
12	900.94	39.02 QP	46.00	-6.98	1.00 H	7	11.05	27.97
13	933.99	44.87 QP	46.00	-1.13	1.50 H	349	16.53	28.34

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	53.23	37.46 QP	40.00	-2.54	1.00 V	34	23.29	14.17
2	86.28	31.83 QP	40.00	-8.17	1.50 V	28	22.22	9.61
3	179.61	37.93 QP	43.50	-5.57	1.50 V	28	25.15	12.78
4	249.60	35.17 QP	46.00	-10.83	1.00 V	10	21.48	13.69
5	366.26	38.18 QP	46.00	-7.82	1.50 V	82	21.71	16.47
6	399.31	38.58 QP	46.00	-7.42	1.00 V	193	21.27	17.31
7	667.63	41.50 QP	46.00	-4.50	1.00 V	106	16.89	24.61
8	799.84	38.20 QP	46.00	-7.80	1.50 V	112	11.77	26.43
9	900.94	38.64 QP	46.00	-7.36	1.00 V	229	10.68	27.97
10	933.99	42.08 QP	46.00	-3.92	1.00 V	274	13.74	28.34

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



**802.11b DSSS MODULATION**

**FOR TEST MODE B (POE MODE): SINGLE TX**

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	51.63 PK	74.00	-22.37	1.18 H	94	22.90	28.73
2	1066.00	45.89 AV	54.00	-8.11	1.18 H	94	17.16	28.73
3	2386.00	50.76 PK	74.00	-23.24	1.30 H	221	18.52	32.24
4	2386.00	43.11 AV	54.00	-10.89	1.30 H	221	10.87	32.24
5	*2412.00	99.82 PK			1.30 H	221	67.48	32.34
6	*2412.00	95.13 AV			1.30 H	221	62.79	32.34
7	4824.00	51.56 PK	74.00	-22.44	1.15 H	293	12.96	38.60
8	4824.00	40.22 AV	54.00	-13.78	1.15 H	293	1.62	38.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1066.00	50.81 PK	74.00	-23.19	1.15 V	261	22.08	28.73
2	1066.00	45.13 AV	54.00	-8.87	1.15 V	261	16.40	28.73
3	2386.00	59.85 PK	74.00	-14.15	1.66 V	346	27.61	32.24
4	2386.00	52.20 AV	54.00	-1.80	1.66 V	346	19.96	32.24
5	*2412.00	107.48 PK			1.66 V	346	75.14	32.34
6	*2412.00	103.15 AV			1.66 V	346	70.81	32.34
7	4824.00	53.04 PK	74.00	-20.96	1.11 V	264	14.44	38.60
8	4824.00	46.82 AV	54.00	-7.18	1.11 V	264	8.22	38.60

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	51.24 PK	74.00	-22.76	1.21 H	84	22.51	28.73
2	1066.00	45.46 AV	54.00	-8.54	1.21 H	84	16.73	28.73
3	*2437.00	100.96 PK			1.31 H	220	68.53	32.43
4	*2437.00	96.25 AV			1.31 H	220	63.82	32.43
5	4874.00	51.24 PK	74.00	-22.76	1.16 H	252	12.50	38.74
6	4874.00	39.95 AV	54.00	-14.05	1.16 H	252	1.21	38.74

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	50.95 PK	74.00	-23.05	1.10 V	64	22.22	28.73
2	1066.00	45.28 AV	54.00	-8.72	1.10 V	64	16.55	28.73
3	*2437.00	110.01 PK			1.67 V	339	77.58	32.43
4	*2437.00	105.46 AV			1.67 V	339	73.03	32.43
5	4874.00	53.65 PK	74.00	-20.35	1.02 V	74	14.91	38.74
6	4874.00	47.31 AV	54.00	-6.69	1.02 V	74	8.57	38.74

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



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	50.98 PK	74.00	-23.02	1.18 H	66	22.25	28.73
2	1066.00	45.24 AV	54.00	-8.76	1.18 H	66	16.51	28.73
3	*2462.00	100.72 PK			1.30 H	214	68.19	32.53
4	*2462.00	96.03 AV			1.30 H	214	63.50	32.53
5	2488.00	53.14 PK	74.00	-20.86	1.30 H	214	20.52	32.62
6	2488.00	43.62 AV	54.00	-10.38	1.30 H	214	11.00	32.62
7	4924.00	50.99 PK	74.00	-23.01	1.12 H	319	12.12	38.87
8	4924.00	39.62 AV	54.00	-14.38	1.12 H	319	0.75	38.87

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	50.49 PK	74.00	-23.51	1.11 V	56	21.76	28.73
2	1066.00	44.72 AV	54.00	-9.28	1.11 V	56	15.99	28.73
3	*2462.00	109.81 PK			1.61 V	339	77.28	32.53
4	*2462.00	105.27 AV			1.61 V	339	72.74	32.53
5	2488.00	62.05 PK	74.00	-11.95	1.61 V	339	29.43	32.62
6	2488.00	52.50 AV	54.00	-1.50	1.61 V	339	19.88	32.62
7	4924.00	53.04 PK	74.00	-20.96	1.00 V	66	14.17	38.87
8	4924.00	46.75 AV	54.00	-7.25	1.00 V	66	7.88	38.87

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



**FOR TEST MODE C (POE MODE): SINGLE TX**

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.36 PK	74.00	-25.64	1.01 H	23	19.63	28.73
2	1066.00	43.05 AV	54.00	-10.95	1.01 H	23	14.32	28.73
3	2390.00	52.94 PK	74.00	-21.06	1.32 H	319	20.69	32.25
4	2390.00	44.56 AV	54.00	-9.44	1.32 H	319	12.31	32.25
5	*2412.00	102.74 PK			1.32 H	319	70.40	32.34
6	*2412.00	98.38 AV			1.32 H	319	66.04	32.34
7	4824.00	50.25 PK	74.00	-23.75	1.02 H	311	11.65	38.60
8	4824.00	39.74 AV	54.00	-14.26	1.02 H	311	1.14	38.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1066.00	50.12 PK	74.00	-23.88	1.02 V	34	21.39	28.73
2	1066.00	46.95 AV	54.00	-7.05	1.02 V	34	18.22	28.73
3	2390.00	62.59 PK	74.00	-11.41	1.09 V	11	30.34	32.25
4	2390.00	52.57 AV	54.00	-1.43	1.09 V	11	20.32	32.25
5	*2412.00	110.59 PK			1.09 V	11	78.25	32.34
6	*2412.00	106.05 AV			1.09 V	11	73.71	32.34
7	4824.00	50.46 PK	74.00	-23.54	1.12 V	59	11.86	38.60
8	4824.00	46.05 AV	54.00	-7.95	1.12 V	59	7.45	38.60

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.59 PK	74.00	-25.41	1.09 H	64	19.86	28.73
2	1066.00	43.21 AV	54.00	-10.79	1.09 H	64	14.48	28.73
3	*2462.00	105.23 PK			1.35 H	334	72.70	32.53
4	*2462.00	100.11 AV			1.35 H	334	67.58	32.53
5	2488.00	53.96 PK	74.00	-20.04	1.31 H	339	21.34	32.62
6	2488.00	45.68 AV	54.00	-8.32	1.31 H	339	13.06	32.62
7	4924.00	50.38 PK	74.00	-23.62	1.01 H	48	11.51	38.87
8	4924.00	39.76 AV	54.00	-14.24	1.01 H	48	0.89	38.87

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	49.95 PK	74.00	-24.05	1.09 V	63	21.22	28.73
2	1066.00	46.90 AV	54.00	-7.10	1.09 V	63	18.17	28.73
3	*2462.00	113.14 PK			1.14 V	353	80.61	32.53
4	*2462.00	108.27 AV			1.14 V	353	75.74	32.53
5	2488.00	62.30 PK	74.00	-11.70	1.14 V	353	29.68	32.62
6	2488.00	52.86 AV	54.00	-1.14	1.14 V	353	20.24	32.62
7	4924.00	52.80 PK	74.00	-21.20	1.05 V	2	13.93	38.87
8	4924.00	44.97 AV	54.00	-9.03	1.05 V	2	6.10	38.87

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



**802.11g OFDM MODULATION  
FOR TEST MODE B (POE MODE): SINGLE TX**

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.77 PK	74.00	-25.23	1.31 H	141	20.04	28.73
2	1066.00	41.75 AV	54.00	-12.25	1.31 H	141	13.02	28.73
3	2390.00	59.81 PK	74.00	-14.19	1.44 H	153	27.56	32.25
4	2390.00	43.32 AV	54.00	-10.68	1.44 H	153	11.07	32.25
5	*2412.00	97.54 PK			1.44 H	153	65.20	32.34
6	*2412.00	87.06 AV			1.44 H	153	54.72	32.34
7	4824.00	48.13 PK	74.00	-25.87	1.31 H	20	9.53	38.60
8	4824.00	34.58 AV	54.00	-19.42	1.31 H	20	-4.02	38.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	50.74 PK	74.00	-23.26	1.58 V	325	22.01	28.73
2	1066.00	44.96 AV	54.00	-9.04	1.58 V	325	16.23	28.73
3	2390.00	67.90 PK	74.00	-6.10	1.68 V	343	35.65	32.25
4	2390.00	51.49 AV	54.00	-2.51	1.68 V	343	19.24	32.25
5	*2412.00	105.96 PK			1.68 V	343	73.62	32.34
6	*2412.00	95.24 AV			1.68 V	343	62.90	32.34
7	4824.00	48.66 PK	74.00	-25.34	1.01 V	21	10.06	38.60
8	4824.00	35.62 AV	54.00	-18.38	1.01 V	21	-2.98	38.60

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.96 PK	74.00	-25.04	1.29 H	138	20.23	28.73
2	1066.00	41.89 AV	54.00	-12.11	1.29 H	138	13.16	28.73
3	*2437.00	103.86 PK			1.42 H	151	71.43	32.43
4	*2437.00	93.42 AV			1.42 H	151	60.99	32.43
5	4874.00	49.26 PK	74.00	-24.74	1.18 H	266	10.52	38.74
6	4874.00	35.63 AV	54.00	-18.37	1.18 H	266	-3.11	38.74

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	50.89 PK	74.00	-23.11	1.49 V	313	22.16	28.73
2	1066.00	45.21 AV	54.00	-8.79	1.49 V	313	16.48	28.73
3	2390.00	62.00 PK	74.00	-12.00	1.64 V	338	29.75	32.25
4	2390.00	49.75 AV	54.00	-4.25	1.64 V	338	17.50	32.25
5	*2437.00	111.95 PK			1.63 V	341	79.52	32.43
6	*2437.00	101.90 AV			1.63 V	341	69.47	32.43
7	4874.00	49.66 PK	74.00	-24.34	1.64 V	20	10.92	38.74
8	4874.00	37.13 AV	54.00	-16.87	1.64 V	20	-1.61	38.74

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.98 PK	74.00	-25.02	1.26 H	135	20.25	28.73
2	1066.00	41.93 AV	54.00	-12.07	1.26 H	135	13.20	28.73
3	*2462.00	97.58 PK			1.42 H	151	65.05	32.53
4	*2462.00	87.10 AV			1.42 H	151	54.57	32.53
5	2483.50	59.68 PK	74.00	-14.32	1.42 H	151	27.07	32.61
6	2483.50	43.10 AV	54.00	-10.90	1.42 H	151	10.49	32.61
7	4924.00	48.54 PK	74.00	-25.46	1.16 H	323	9.67	38.87
8	4924.00	34.96 AV	54.00	-19.04	1.16 H	323	-3.91	38.87

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	50.96 PK	74.00	-23.04	1.11 V	231	22.23	28.73
2	1066.00	45.19 AV	54.00	-8.81	1.11 V	231	16.46	28.73
3	*2462.00	105.93 PK			1.62 V	342	73.40	32.53
4	*2462.00	95.26 AV			1.62 V	342	62.73	32.53
5	2483.50	66.16 PK	74.00	-7.84	1.62 V	342	33.55	32.61
6	2483.50	51.46 AV	54.00	-2.54	1.62 V	342	18.85	32.61
7	4924.00	48.95 PK	74.00	-25.05	1.11 V	26	10.08	38.87
8	4924.00	35.92 AV	54.00	-18.08	1.11 V	26	-2.95	38.87

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

**FOR TEST MODE C (POE MODE): SINGLE TX**

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.23 PK	74.00	-25.77	1.20 H	174	19.50	28.73
2	1066.00	42.75 AV	54.00	-11.25	1.20 H	174	14.02	28.73
3	2390.00	52.81 PK	74.00	-21.19	1.36 H	352	20.56	32.25
4	2390.00	44.40 AV	54.00	-9.60	1.36 H	352	12.15	32.25
5	*2412.00	100.10 PK			1.36 H	352	67.76	32.34
6	*2412.00	91.36 AV			1.36 H	352	59.02	32.34
7	4824.00	47.81 PK	74.00	-26.19	1.06 H	313	9.21	38.60
8	4824.00	35.50 AV	54.00	-18.50	1.06 H	313	-3.10	38.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	49.15 PK	74.00	-24.85	1.05 V	336	20.42	28.73
2	1066.00	45.92 AV	54.00	-8.08	1.05 V	336	17.19	28.73
3	2390.00	68.96 PK	74.00	-5.04	1.13 V	12	36.71	32.25
4	2390.00	52.94 AV	54.00	-1.06	1.13 V	12	20.69	32.25
5	*2412.00	109.02 PK			1.13 V	12	76.68	32.34
6	*2412.00	99.85 AV			1.13 V	12	67.51	32.34
7	4824.00	49.12 PK	74.00	-24.88	1.13 V	29	10.52	38.60
8	4824.00	37.34 AV	54.00	-16.66	1.13 V	29	-1.26	38.60

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.95 PK	74.00	-25.05	1.05 H	231	20.22	28.73
2	1066.00	43.46 AV	54.00	-10.54	1.05 H	231	14.73	28.73
3	*2462.00	100.52 PK			1.36 H	348	67.99	32.53
4	*2462.00	91.76 AV			1.36 H	348	59.23	32.53
5	2483.50	53.26 PK	74.00	-20.74	1.36 H	348	20.65	32.61
6	2483.50	44.85 AV	54.00	-9.15	1.36 H	348	12.24	32.61
7	4924.00	48.35 PK	74.00	-25.65	1.13 H	241	9.48	38.87
8	4924.00	35.96 AV	54.00	-18.04	1.13 H	241	-2.91	38.87

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	51.69 PK	74.00	-22.31	1.08 V	263	22.96	28.73
2	1066.00	46.48 AV	54.00	-7.52	1.08 V	263	17.75	28.73
3	*2462.00	109.56 PK			1.12 V	10	77.03	32.53
4	*2462.00	100.47 AV			1.12 V	10	67.94	32.53
5	2483.50	69.42 PK	74.00	-4.58	1.12 V	10	36.81	32.61
6	2483.50	52.51 AV	54.00	-1.49	1.12 V	10	19.90	32.61
7	4924.00	48.72 PK	74.00	-25.28	1.15 V	291	9.85	38.87
8	4924.00	36.85 AV	54.00	-17.15	1.15 V	291	-2.02	38.87

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



**802.11b DSSS & 802.11b DSSS MODULATION**

**FOR TEST MODE B (POE MODE): DUAL TX**

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	50.62 PK	74.00	-23.38	1.14 H	59	21.89	28.73
2	1066.00	44.71 AV	54.00	-9.29	1.14 H	59	15.98	28.73
3	2386.00	50.68 PK	74.00	-23.32	1.30 H	229	18.44	32.24
4	2386.00	43.04 AV	54.00	-10.96	1.30 H	229	10.80	32.24
5	*2412.00	99.47 PK			1.30 H	229	67.13	32.34
6	*2412.00	95.11 AV			1.30 H	229	62.77	32.34
7	*2437.00	100.66 PK			1.30 H	226	68.23	32.43
8	*2437.00	96.04 AV			1.30 H	226	63.61	32.43
9	4824.00	52.35 PK	74.00	-21.65	1.11 H	92	13.75	38.60
10	4824.00	41.06 AV	54.00	-12.94	1.11 H	92	2.46	38.60
11	4874.00	52.69 PK	74.00	-21.31	1.22 H	51	13.95	38.74
12	4874.00	41.24 AV	54.00	-12.76	1.22 H	51	2.50	38.74

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	50.85 PK	74.00	-23.15	1.13 V	246	22.12	28.73
2	1066.00	45.23 AV	54.00	-8.77	1.13 V	246	16.50	28.73
3	2386.00	59.86 PK	74.00	-14.14	1.58 V	338	27.62	32.24
4	2386.00	52.23 AV	54.00	-1.77	1.58 V	338	19.99	32.24
5	*2412.00	107.34 PK			1.58 V	338	75.00	32.34
6	*2412.00	102.75 AV			1.58 V	338	70.41	32.34
7	*2437.00	109.26 PK			1.54 V	345	76.83	32.43
8	*2437.00	104.74 AV			1.54 V	345	72.31	32.43
9	4824.00	53.46 PK	74.00	-20.54	1.13 V	296	14.86	38.60
10	4824.00	47.25 AV	54.00	-6.75	1.13 V	296	8.65	38.60
11	4874.00	54.26 PK	74.00	-19.74	1.06 V	253	15.52	38.74
12	4874.00	48.01 AV	54.00	-5.99	1.06 V	253	9.27	38.74

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4 & Channel 9	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	50.83 PK	74.00	-23.17	1.08 H	265	22.10	28.73
2	1066.00	44.94 AV	54.00	-9.06	1.08 H	265	16.21	28.73
3	*2427.00	100.32 PK			1.31 H	225	67.93	32.39
4	*2427.00	95.71 AV			1.31 H	225	63.32	32.39
5	*2452.00	100.26 PK			1.30 H	226	67.77	32.49
6	*2452.00	95.64 AV			1.30 H	226	63.15	32.49
7	4854.00	52.46 PK	74.00	-21.54	1.13 H	214	13.78	38.68
8	4854.00	41.18 AV	54.00	-12.82	1.13 H	214	2.50	38.68
9	4904.00	52.36 PK	74.00	-21.64	1.09 H	255	13.54	38.82
10	4904.00	41.09 AV	54.00	-12.91	1.09 H	255	2.27	38.82

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	50.76 PK	74.00	-23.24	1.18 V	261	22.03	28.73
2	1066.00	45.12 AV	54.00	-8.88	1.18 V	261	16.39	28.73
3	*2427.00	108.95 PK			1.50 V	351	76.56	32.39
4	*2427.00	104.42 AV			1.50 V	351	72.03	32.39
5	*2452.00	108.72 PK			1.48 V	346	76.23	32.49
6	*2452.00	104.21 AV			1.48 V	346	71.72	32.49
7	4854.00	53.31 PK	74.00	-20.69	1.08 V	212	14.63	38.68
8	4854.00	47.16 AV	54.00	-6.84	1.08 V	212	8.48	38.68
9	4904.00	53.26 PK	74.00	-20.74	1.10 V	269	14.44	38.82
10	4904.00	47.11 AV	54.00	-6.89	1.10 V	269	8.29	38.82

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	51.02 PK	74.00	-22.98	1.18 H	213	22.29	28.73
2	1066.00	45.24 AV	54.00	-8.76	1.18 H	213	16.51	28.73
3	*2437.00	100.75 PK			1.30 H	218	68.32	32.43
4	*2437.00	96.01 AV			1.30 H	218	63.58	32.43
5	*2462.00	100.35 PK			1.28 H	210	67.82	32.53
6	*2462.00	95.68 AV			1.28 H	210	63.15	32.53
7	2488.00	53.02 PK	74.00	-20.98	1.28 H	210	20.40	32.62
8	2488.00	43.41 AV	54.00	-10.59	1.28 H	210	10.79	32.62
9	4874.00	51.12 PK	74.00	-22.88	1.09 H	234	12.38	38.74
10	4874.00	39.84 AV	54.00	-14.16	1.09 H	234	1.10	38.74
11	4924.00	50.86 PK	74.00	-23.14	1.19 H	256	11.99	38.87
12	4924.00	39.51 AV	54.00	-14.49	1.19 H	256	0.64	38.87

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	50.84 PK	74.00	-23.16	1.09 V	52	22.11	28.73
2	1066.00	45.11 AV	54.00	-8.89	1.09 V	52	16.38	28.73
3	*2437.00	109.85 PK			1.61 V	340	77.42	32.43
4	*2437.00	105.31 AV			1.61 V	340	72.88	32.43
5	*2462.00	109.32 PK			1.60 V	338	76.79	32.53
6	*2462.00	104.78 AV			1.60 V	338	72.25	32.53
7	2488.00	61.85 PK	74.00	-12.15	1.60 V	338	29.23	32.62
8	2488.00	52.36 AV	54.00	-1.64	1.60 V	338	19.74	32.62
9	4874.00	53.51 PK	74.00	-20.49	1.12 V	214	14.77	38.74
10	4874.00	47.22 AV	54.00	-6.78	1.12 V	214	8.48	38.74
11	4924.00	53.15 PK	74.00	-20.85	1.18 V	252	14.28	38.87
12	4924.00	46.87 AV	54.00	-7.13	1.18 V	252	8.00	38.87

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



**FOR TEST MODE C (POE MODE): DUAL TX**

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.51 PK	74.00	-25.49	1.13 H	245	19.78	28.73
2	1066.00	43.26 AV	54.00	-10.74	1.13 H	245	14.53	28.73
3	2390.00	53.24 PK	74.00	-20.76	1.30 H	322	20.99	32.25
4	2390.00	44.89 AV	54.00	-9.11	1.30 H	322	12.64	32.25
5	*2412.00	102.16 PK			1.30 H	322	69.82	32.34
6	*2412.00	97.75 AV			1.30 H	322	65.41	32.34
7	*2437.00	103.25 PK			1.31 H	324	70.82	32.43
8	*2437.00	98.90 AV			1.31 H	324	66.47	32.43
9	4824.00	50.36 PK	74.00	-23.64	1.03 H	224	11.76	38.60
10	4824.00	39.85 AV	54.00	-14.15	1.03 H	224	1.25	38.60
11	4874.00	50.66 PK	74.00	-23.34	1.12 H	69	11.92	38.74
12	4874.00	40.15 AV	54.00	-13.85	1.12 H	69	1.41	38.74

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	50.36 PK	74.00	-23.64	1.05 V	29	21.63	28.73
2	1066.00	47.15 AV	54.00	-6.85	1.05 V	29	18.42	28.73
3	2390.00	62.84 PK	74.00	-11.16	1.10 V	20	30.59	32.25
4	2390.00	52.69 AV	54.00	-1.31	1.10 V	20	20.44	32.25
5	*2412.00	110.03 PK			1.10 V	20	77.69	32.34
6	*2412.00	105.54 AV			1.10 V	20	73.20	32.34
7	*2437.00	111.16 PK			1.11 V	28	78.73	32.43
8	*2437.00	106.69 AV			1.11 V	28	74.26	32.43
9	4824.00	50.26 PK	74.00	-23.74	1.13 V	29	11.66	38.60
10	4824.00	45.72 AV	54.00	-8.28	1.13 V	29	7.12	38.60
11	4874.00	50.96 PK	74.00	-23.04	1.11 V	49	12.22	38.74
12	4874.00	46.62 AV	54.00	-7.38	1.11 V	49	7.88	38.74

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.36 PK	74.00	-25.64	1.10 H	27	19.63	28.73
2	1066.00	43.02 AV	54.00	-10.98	1.10 H	27	14.29	28.73
3	*2437.00	103.49 PK			1.30 H	329	71.06	32.43
4	*2437.00	99.12 AV			1.30 H	329	66.69	32.43
5	*2462.00	105.02 PK			1.32 H	330	72.49	32.53
6	*2462.00	99.87 AV			1.32 H	330	67.34	32.53
7	2488.00	53.81 PK	74.00	-20.19	1.32 H	330	21.19	32.62
8	2488.00	45.50 AV	54.00	-8.50	1.32 H	330	12.88	32.62
9	4874.00	50.46 PK	74.00	-23.54	1.15 H	249	11.72	38.74
10	4874.00	39.91 AV	54.00	-14.09	1.15 H	249	1.17	38.74
11	4924.00	50.16 PK	74.00	-23.84	1.17 H	243	11.29	38.87
12	4924.00	39.54 AV	54.00	-14.46	1.17 H	243	0.67	38.87

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	50.28 PK	74.00	-23.72	1.13 V	248	21.55	28.73
2	1066.00	47.11 AV	54.00	-6.89	1.13 V	248	18.38	28.73
3	*2437.00	111.45 PK			1.10 V	32	79.02	32.43
4	*2437.00	106.92 AV			1.10 V	32	74.49	32.43
5	*2462.00	112.94 PK			1.13 V	40	80.41	32.53
6	*2462.00	108.02 AV			1.13 V	40	75.49	32.53
7	2488.00	62.15 PK	74.00	-11.85	1.13 V	40	29.53	32.62
8	2488.00	52.71 AV	54.00	-1.29	1.13 V	40	20.09	32.62
9	4874.00	50.82 PK	74.00	-23.18	1.15 V	213	12.08	38.74
10	4874.00	46.45 AV	54.00	-7.55	1.15 V	213	7.71	38.74
11	4924.00	52.61 PK	74.00	-21.39	1.13 V	246	13.74	38.87
12	4924.00	44.82 AV	54.00	-9.18	1.13 V	246	5.95	38.87

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



**802.11b DSSS & 802.11g OFDM MODULATION**

**FOR TEST MODE B (POE MODE): DUAL TX**

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	51.72 PK	74.00	-22.28	1.20 H	48	22.99	28.73
2	1066.00	45.87 AV	54.00	-8.13	1.20 H	48	17.14	28.73
3	2386.00	50.31 PK	74.00	-23.69	1.31 H	224	18.07	32.24
4	2386.00	42.76 AV	54.00	-11.24	1.31 H	224	10.52	32.24
5	*2412.00	99.51 PK			1.31 H	224	67.17	32.34
6	*2412.00	94.85 AV			1.31 H	224	62.51	32.34
7	*2437.00	103.56 PK			1.35 H	146	71.13	32.43
8	*2437.00	93.11 AV			1.35 H	146	60.68	32.43
9	4824.00	51.96 PK	74.00	-22.04	1.12 H	31	13.36	38.60
10	4824.00	40.61 AV	54.00	-13.39	1.12 H	31	2.01	38.60
11	4874.00	49.23 PK	74.00	-24.77	1.18 H	47	10.49	38.74
12	4874.00	36.95 AV	54.00	-17.05	1.18 H	47	-1.79	38.74

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	50.31 PK	74.00	-23.69	1.09 V	234	21.58	28.73
2	1066.00	44.68 AV	54.00	-9.32	1.09 V	234	15.95	28.73
3	2386.00	59.42 PK	74.00	-14.58	1.61 V	340	27.18	32.24
4	2386.00	51.82 AV	54.00	-2.18	1.61 V	340	19.58	32.24
5	*2412.00	107.19 PK			1.61 V	340	74.85	32.34
6	*2412.00	102.64 AV			1.61 V	340	70.30	32.34
7	*2437.00	110.86 PK			1.58 V	339	78.43	32.43
8	*2437.00	100.47 AV			1.58 V	339	68.04	32.43
9	4824.00	53.25 PK	74.00	-20.75	1.18 V	239	14.65	38.60
10	4824.00	47.12 AV	54.00	-6.88	1.18 V	239	8.52	38.60
11	4874.00	47.26 PK	74.00	-26.74	1.16 V	57	8.52	38.74
12	4874.00	34.03 AV	54.00	-19.97	1.16 V	57	-4.71	38.74

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4 & Channel 9	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	50.76 PK	74.00	-23.24	1.13 H	281	22.03	28.73
2	1066.00	44.85 AV	54.00	-9.15	1.13 H	281	16.12	28.73
3	*2427.00	100.21 PK			1.30 H	226	67.82	32.39
4	*2427.00	95.60 AV			1.30 H	226	63.21	32.39
5	*2452.00	103.25 PK			1.36 H	148	70.76	32.49
6	*2452.00	92.84 AV			1.36 H	148	60.35	32.49
7	4854.00	52.63 PK	74.00	-21.37	1.09 H	68	13.95	38.68
8	4854.00	41.42 AV	54.00	-12.58	1.09 H	68	2.74	38.68
9	4904.00	49.38 PK	74.00	-24.62	1.16 H	299	10.56	38.82
10	4904.00	40.63 AV	54.00	-13.37	1.16 H	299	1.81	38.82

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4 & Channel 9	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	50.45 PK	74.00	-23.55	1.13 V	269	21.72	28.73
2	1066.00	44.82 AV	54.00	-9.18	1.13 V	269	16.09	28.73
3	*2427.00	108.75 PK			1.45 V	350	76.36	32.39
4	*2427.00	104.21 AV			1.45 V	350	71.82	32.39
5	*2452.00	110.35 PK			1.53 V	342	77.86	32.49
6	*2452.00	100.02 AV			1.53 V	342	67.53	32.49
7	4854.00	53.46 PK	74.00	-20.54	1.11 V	209	14.78	38.68
8	4854.00	47.32 AV	54.00	-6.68	1.11 V	209	8.64	38.68
9	4904.00	49.36 PK	74.00	-24.64	1.13 V	62	10.54	38.82
10	4904.00	37.15 AV	54.00	-16.85	1.13 V	62	-1.67	38.82

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	49.13 PK	74.00	-24.87	1.06 H	235	20.40	28.73
2	1066.00	42.08 AV	54.00	-11.92	1.06 H	235	13.35	28.73
3	*2437.00	100.75 PK			1.30 H	218	68.32	32.43
4	*2437.00	96.03 AV			1.30 H	218	63.60	32.43
5	*2462.00	97.29 PK			1.40 H	153	64.76	32.53
6	*2462.00	86.81 AV			1.40 H	153	54.28	32.53
7	2483.50	59.51 PK	74.00	-14.49	1.40 H	153	26.90	32.61
8	2483.50	42.95 AV	54.00	-11.05	1.40 H	153	10.34	32.61
9	4874.00	51.35 PK	74.00	-22.65	1.12 H	17	12.61	38.74
10	4874.00	40.06 AV	54.00	-13.94	1.12 H	17	1.32	38.74
11	4924.00	48.69 PK	74.00	-25.31	1.15 H	236	9.82	38.87
12	4924.00	35.12 AV	54.00	-18.88	1.15 H	236	-3.75	38.87

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	50.75 PK	74.00	-23.25	1.12 V	64	22.02	28.73
2	1066.00	45.02 AV	54.00	-8.98	1.12 V	64	16.29	28.73
3	*2437.00	109.81 PK			1.60 V	329	77.38	32.43
4	*2437.00	105.25 AV			1.60 V	329	72.82	32.43
5	*2462.00	105.52 PK			1.61 V	350	72.99	32.53
6	*2462.00	94.85 AV			1.61 V	350	62.32	32.53
7	2483.50	66.03 PK	74.00	-7.97	1.61 V	350	33.42	32.61
8	2483.50	51.32 AV	54.00	-2.68	1.61 V	350	18.71	32.61
9	4874.00	53.63 PK	74.00	-20.37	1.16 V	265	14.89	38.74
10	4874.00	47.36 AV	54.00	-6.64	1.16 V	265	8.62	38.74
11	4924.00	49.15 PK	74.00	-24.85	1.01 V	242	10.28	38.87
12	4924.00	36.11 AV	54.00	-17.89	1.01 V	242	-2.76	38.87

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



**FOR TEST MODE C (POE MODE): DUAL TX**

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.36 PK	74.00	-25.64	1.19 H	176	19.63	28.73
2	1066.00	42.84 AV	54.00	-11.16	1.19 H	176	14.11	28.73
3	2390.00	53.36 PK	74.00	-20.64	1.31 H	320	21.11	32.25
4	2390.00	44.95 AV	54.00	-9.05	1.31 H	320	12.70	32.25
5	*2412.00	102.35 PK			1.31 H	320	70.01	32.34
6	*2412.00	97.90 AV			1.31 H	320	65.56	32.34
7	*2437.00	105.26 PK			1.35 H	359	72.83	32.43
8	*2437.00	96.54 AV			1.35 H	359	64.11	32.43
9	4824.00	50.66 PK	74.00	-23.34	1.11 H	34	12.06	38.60
10	4824.00	40.18 AV	54.00	-13.82	1.11 H	34	1.58	38.60
11	4874.00	48.96 PK	74.00	-25.04	1.04 H	239	10.22	38.74
12	4874.00	36.24 AV	54.00	-17.76	1.04 H	239	-2.50	38.74

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	50.48 PK	74.00	-23.52	1.11 V	25	21.75	28.73
2	1066.00	47.23 AV	54.00	-6.77	1.11 V	25	18.50	28.73
3	2390.00	62.72 PK	74.00	-11.28	1.11 V	14	30.47	32.25
4	2390.00	52.54 AV	54.00	-1.46	1.11 V	14	20.29	32.25
5	*2412.00	110.24 PK			1.11 V	14	77.90	32.34
6	*2412.00	105.81 AV			1.11 V	14	73.47	32.34
7	*2437.00	114.13 PK			1.12 V	13	81.70	32.43
8	*2437.00	104.92 AV			1.12 V	13	72.49	32.43
9	4824.00	50.36 PK	74.00	-23.64	1.19 V	56	11.76	38.60
10	4824.00	45.84 AV	54.00	-8.16	1.19 V	56	7.24	38.60
11	4874.00	50.36 PK	74.00	-23.64	1.21 V	39	11.62	38.74
12	4874.00	38.45 AV	54.00	-15.55	1.21 V	39	-0.29	38.74

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.45 PK	74.00	-25.55	1.08 H	35	19.72	28.73
2	1066.00	43.16 AV	54.00	-10.84	1.08 H	35	14.43	28.73
3	*2437.00	103.53 PK			1.29 H	330	71.10	32.43
4	*2437.00	99.21 AV			1.29 H	330	66.78	32.43
5	*2462.00	100.31 PK			1.30 H	351	67.78	32.53
6	*2462.00	91.54 AV			1.30 H	351	59.01	32.53
7	2483.50	53.15 PK	74.00	-20.85	1.30 H	351	20.54	32.61
8	2483.50	44.71 AV	54.00	-9.29	1.30 H	351	12.10	32.61
9	4874.00	50.69 PK	74.00	-23.31	1.14 H	252	11.95	38.74
10	4874.00	40.15 AV	54.00	-13.85	1.14 H	252	1.41	38.74
11	4924.00	48.22 PK	74.00	-25.78	1.06 H	259	9.35	38.87
12	4924.00	35.83 AV	54.00	-18.17	1.06 H	259	-3.04	38.87

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	50.49 PK	74.00	-23.51	1.10 V	259	21.76	28.73
2	1066.00	47.35 AV	54.00	-6.65	1.10 V	259	18.62	28.73
3	*2437.00	111.35 PK			1.11 V	40	78.92	32.43
4	*2437.00	106.84 AV			1.11 V	40	74.41	32.43
5	*2462.00	109.19 PK			1.14 V	16	76.66	32.53
6	*2462.00	100.10 AV			1.14 V	16	67.57	32.53
7	2483.50	69.35 PK	74.00	-4.65	1.14 V	16	36.74	32.61
8	2483.50	52.38 AV	54.00	-1.62	1.14 V	16	19.77	32.61
9	4874.00	50.93 PK	74.00	-23.07	1.15 V	226	12.19	38.74
10	4874.00	46.56 AV	54.00	-7.44	1.15 V	226	7.82	38.74
11	4924.00	48.93 PK	74.00	-25.07	1.18 V	263	10.06	38.87
12	4924.00	37.05 AV	54.00	-16.95	1.18 V	263	-1.82	38.87

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



**802.11g OFDM & 802.11b DSSS MODULATION  
FOR TEST MODE B (POE MODE): DUAL TX**

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	51.54 PK	74.00	-22.46	1.13 H	104	22.81	28.73
2	1066.00	45.70 AV	54.00	-8.30	1.13 H	104	16.97	28.73
3	2390.00	59.46 PK	74.00	-14.54	1.40 H	151	27.21	32.25
4	2390.00	42.95 AV	54.00	-11.05	1.40 H	151	10.70	32.25
5	*2412.00	97.10 PK			1.40 H	151	64.76	32.34
6	*2412.00	86.56 AV			1.40 H	151	54.22	32.34
7	*2437.00	100.80 PK			1.28 H	245	68.37	32.43
8	*2437.00	96.11 AV			1.28 H	245	63.68	32.43
9	4824.00	48.93 PK	74.00	-25.07	1.13 H	24	10.33	38.60
10	4824.00	35.64 AV	54.00	-18.36	1.13 H	24	-2.96	38.60
11	4874.00	51.31 PK	74.00	-22.69	1.13 H	247	12.57	38.74
12	4874.00	40.03 AV	54.00	-13.97	1.13 H	247	1.29	38.74

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	50.86 PK	74.00	-23.14	1.29 V	313	22.13	28.73
2	1066.00	45.13 AV	54.00	-8.87	1.29 V	313	16.40	28.73
3	2390.00	67.72 PK	74.00	-6.28	1.60 V	321	35.47	32.25
4	2390.00	51.23 AV	54.00	-2.77	1.60 V	321	18.98	32.25
5	*2412.00	105.51 PK			1.63 V	350	73.17	32.34
6	*2412.00	94.85 AV			1.63 V	350	62.51	32.34
7	*2437.00	109.52 PK			1.60 V	351	77.09	32.43
8	*2437.00	105.03 AV			1.60 V	351	72.60	32.43
9	4824.00	48.51 PK	74.00	-25.49	1.10 V	253	9.91	38.60
10	4824.00	35.46 AV	54.00	-18.54	1.10 V	253	-3.14	38.60
11	4874.00	53.69 PK	74.00	-20.31	1.09 V	253	14.95	38.74
12	4874.00	47.41 AV	54.00	-6.59	1.09 V	253	8.67	38.74

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4 & Channel 9	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	50.67 PK	74.00	-23.33	1.13 H	274	21.94	28.73
2	1066.00	44.72 AV	54.00	-9.28	1.13 H	274	15.99	28.73
3	*2427.00	103.21 PK			1.35 H	150	70.82	32.39
4	*2427.00	92.83 AV			1.35 H	150	60.44	32.39
5	*2452.00	100.19 PK			1.29 H	228	67.70	32.49
6	*2452.00	95.58 AV			1.29 H	228	63.09	32.49
7	4854.00	51.46 PK	74.00	-22.54	1.09 H	68	12.78	38.68
8	4854.00	36.22 AV	54.00	-17.78	1.09 H	68	-2.46	38.68
9	4904.00	49.46 PK	74.00	-24.54	1.09 H	241	10.64	38.82
10	4904.00	41.24 AV	54.00	-12.76	1.09 H	241	2.42	38.82

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4 & Channel 9	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	50.61 PK	74.00	-23.39	1.18 V	56	21.88	28.73
2	1066.00	45.03 AV	54.00	-8.97	1.18 V	56	16.30	28.73
3	*2427.00	110.06 PK			1.48 V	351	77.67	32.39
4	*2427.00	99.83 AV			1.48 V	351	67.44	32.39
5	*2452.00	108.78 PK			1.49 V	348	76.29	32.49
6	*2452.00	104.31 AV			1.49 V	348	71.82	32.49
7	4854.00	49.52 PK	74.00	-24.48	1.07 V	266	10.84	38.68
8	4854.00	37.36 AV	54.00	-16.64	1.07 V	266	-1.32	38.68
9	4904.00	53.35 PK	74.00	-20.65	1.09 V	263	14.53	38.82
10	4904.00	47.20 AV	54.00	-6.80	1.09 V	263	8.38	38.82

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	49.48 PK	74.00	-24.52	1.16 H	62	20.75	28.73
2	1066.00	42.39 AV	54.00	-11.61	1.16 H	62	13.66	28.73
3	*2437.00	103.68 PK			1.36 H	151	71.25	32.43
4	*2437.00	93.26 AV			1.36 H	151	60.83	32.43
5	*2462.00	100.28 PK			1.26 H	211	67.75	32.53
6	*2462.00	95.61 AV			1.26 H	211	63.08	32.53
7	2488.00	52.86 PK	74.00	-21.14	1.26 H	211	20.24	32.62
8	2488.00	43.29 AV	54.00	-10.71	1.26 H	211	10.67	32.62
9	4874.00	49.46 PK	74.00	-24.54	1.18 H	269	10.72	38.74
10	4874.00	35.87 AV	54.00	-18.13	1.18 H	269	-2.87	38.74
11	4924.00	50.78 PK	74.00	-23.22	1.20 H	248	11.91	38.87
12	4924.00	39.43 AV	54.00	-14.57	1.20 H	248	0.56	38.87

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	50.96 PK	74.00	-23.04	1.12 V	34	22.23	28.73
2	1066.00	45.25 AV	54.00	-8.75	1.12 V	34	16.52	28.73
3	*2437.00	111.72 PK			1.60 V	336	79.29	32.43
4	*2437.00	101.65 AV			1.60 V	336	69.22	32.43
5	*2462.00	109.36 PK			1.60 V	335	76.83	32.53
6	*2462.00	104.83 AV			1.60 V	335	72.30	32.53
7	2488.00	61.92 PK	74.00	-12.08	1.60 V	335	29.30	32.62
8	2488.00	52.43 AV	54.00	-1.57	1.60 V	335	19.81	32.62
9	4874.00	49.75 PK	74.00	-24.25	1.25 V	36	11.01	38.74
10	4874.00	37.21 AV	54.00	-16.79	1.25 V	36	-1.53	38.74
11	4924.00	53.26 PK	74.00	-20.74	1.23 V	264	14.39	38.87
12	4924.00	46.98 AV	54.00	-7.02	1.23 V	264	8.11	38.87

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

**FOR TEST MODE C (POE MODE): DUAL TX**

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.56 PK	74.00	-25.44	1.15 H	241	19.83	28.73
2	1066.00	43.01 AV	54.00	-10.99	1.15 H	241	14.28	28.73
3	2390.00	52.60 PK	74.00	-21.40	1.35 H	350	20.35	32.25
4	2390.00	44.15 AV	54.00	-9.85	1.35 H	350	11.90	32.25
5	*2412.00	99.86 PK			1.35 H	350	67.52	32.34
6	*2412.00	91.24 AV			1.35 H	350	58.90	32.34
7	*2437.00	103.85 PK			1.30 H	321	71.42	32.43
8	*2437.00	99.51 AV			1.30 H	321	67.08	32.43
9	4824.00	47.65 PK	74.00	-26.35	1.13 H	244	9.05	38.60
10	4824.00	35.26 AV	54.00	-18.74	1.13 H	244	-3.34	38.60
11	4874.00	50.36 PK	74.00	-23.64	1.12 H	58	11.62	38.74
12	4874.00	39.94 AV	54.00	-14.06	1.12 H	58	1.20	38.74

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	49.56 PK	74.00	-24.44	1.01 V	345	20.83	28.73
2	1066.00	46.38 AV	54.00	-7.62	1.01 V	345	17.65	28.73
3	2390.00	68.71 PK	74.00	-5.29	1.11 V	15	36.46	32.25
4	2390.00	52.70 AV	54.00	-1.30	1.11 V	15	20.45	32.25
5	*2412.00	108.65 PK			1.11 V	15	76.31	32.34
6	*2412.00	99.56 AV			1.11 V	15	67.22	32.34
7	*2437.00	111.68 PK			1.10 V	20	79.25	32.43
8	*2437.00	107.34 AV			1.10 V	20	74.91	32.43
9	4824.00	49.35 PK	74.00	-24.65	1.15 V	260	10.75	38.60
10	4824.00	37.54 AV	54.00	-16.46	1.15 V	260	-1.06	38.60
11	4874.00	50.69 PK	74.00	-23.31	1.18 V	34	11.95	38.74
12	4874.00	46.25 AV	54.00	-7.75	1.18 V	34	7.51	38.74

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.56 PK	74.00	-25.44	1.09 H	54	19.83	28.73
2	1066.00	43.25 AV	54.00	-10.75	1.09 H	54	14.52	28.73
3	*2437.00	105.02 PK			1.30 H	351	72.59	32.43
4	*2437.00	96.13 AV			1.30 H	351	63.70	32.43
5	*2462.00	104.96 PK			1.14 H	42	72.43	32.53
6	*2462.00	100.04 AV			1.14 H	42	67.51	32.53
7	2488.00	62.04 PK	74.00	-11.96	1.14 H	42	29.42	32.62
8	2488.00	52.63 AV	54.00	-1.37	1.14 H	42	20.01	32.62
9	4874.00	48.45 PK	74.00	-25.55	1.20 H	249	9.71	38.74
10	4874.00	36.23 AV	54.00	-17.77	1.20 H	249	-2.51	38.74
11	4924.00	52.76 PK	74.00	-21.24	1.19 H	233	13.89	38.87
12	4924.00	44.95 AV	54.00	-9.05	1.19 H	233	6.08	38.87

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	50.35 PK	74.00	-23.65	1.18 V	231	21.62	28.73
2	1066.00	47.26 AV	54.00	-6.74	1.18 V	231	18.53	28.73
3	*2437.00	113.98 PK			1.11 V	25	81.55	32.43
4	*2437.00	104.95 AV			1.11 V	25	72.52	32.43
5	*2462.00	112.90 PK			1.10 V	38	80.37	32.53
6	*2462.00	108.00 AV			1.10 V	38	75.47	32.53
7	2488.00	62.03 PK	74.00	-11.97	1.10 V	38	29.41	32.62
8	2488.00	52.59 AV	54.00	-1.41	1.10 V	38	19.97	32.62
9	4874.00	50.51 PK	74.00	-23.49	1.16 V	24	11.77	38.74
10	4874.00	38.82 AV	54.00	-15.18	1.16 V	24	0.08	38.74
11	4924.00	52.74 PK	74.00	-21.26	1.10 V	251	13.87	38.87
12	4924.00	44.93 AV	54.00	-9.07	1.10 V	251	6.06	38.87

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



## 802.11g OFDM & 802.11g OFDM MODULATION

### FOR TEST MODE B (POE MODE): DUAL TX

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	51.89 PK	74.00	-22.11	1.23 H	59	23.16	28.73
2	1066.00	46.04 AV	54.00	-7.96	1.23 H	59	17.31	28.73
3	2390.00	59.86 PK	74.00	-14.14	1.36 H	152	27.61	32.25
4	2390.00	43.32 AV	54.00	-10.68	1.36 H	152	11.07	32.25
5	*2412.00	97.34 PK			1.36 H	152	65.00	32.34
6	*2412.00	86.72 AV			1.36 H	152	54.38	32.34
7	*2437.00	103.36 PK			1.38 H	147	70.93	32.43
8	*2437.00	92.95 AV			1.38 H	147	60.52	32.43
9	4824.00	48.76 PK	74.00	-25.24	1.25 H	296	10.16	38.60
10	4824.00	35.49 AV	54.00	-18.51	1.25 H	296	-3.11	38.60
11	4874.00	48.69 PK	74.00	-25.31	1.19 H	264	9.95	38.74
12	4874.00	48.35 AV	54.00	-5.65	1.19 H	264	9.61	38.74

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	50.94 PK	74.00	-23.06	1.21 V	304	22.21	28.73
2	1066.00	45.26 AV	54.00	-8.74	1.21 V	304	16.53	28.73
3	2390.00	67.94 PK	74.00	-6.06	1.61 V	352	35.69	32.25
4	2390.00	51.46 AV	54.00	-2.54	1.61 V	352	19.21	32.25
5	*2412.00	105.84 PK			1.61 V	352	73.50	32.34
6	*2412.00	95.12 AV			1.61 V	352	62.78	32.34
7	*2437.00	111.12 PK			1.60 V	341	78.69	32.43
8	*2437.00	101.44 AV			1.60 V	341	69.01	32.43
9	4824.00	48.69 PK	74.00	-25.31	1.10 V	52	10.09	38.60
10	4824.00	35.61 AV	54.00	-18.39	1.10 V	52	-2.99	38.60
11	4874.00	47.76 PK	74.00	-26.24	1.13 V	249	9.02	38.74
12	4874.00	34.52 AV	54.00	-19.48	1.13 V	249	-4.22	38.74

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4 & Channel 9	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	50.85 PK	74.00	-23.15	1.21 H	53	22.12	28.73
2	1066.00	44.96 AV	54.00	-9.04	1.21 H	53	16.23	28.73
3	*2427.00	103.25 PK			1.36 H	152	70.86	32.39
4	*2427.00	92.84 AV			1.36 H	152	60.45	32.39
5	*2452.00	103.36 PK			1.35 H	150	70.87	32.49
6	*2452.00	92.95 AV			1.35 H	150	60.46	32.49
7	4854.00	51.58 PK	74.00	-22.42	1.05 H	24	12.90	38.68
8	4854.00	40.36 AV	54.00	-13.64	1.05 H	24	1.68	38.68
9	4904.00	51.46 PK	74.00	-22.54	1.13 H	304	12.64	38.82
10	4904.00	40.23 AV	54.00	-13.77	1.13 H	304	1.41	38.82

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4 & Channel 9	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	50.38 PK	74.00	-23.62	1.21 V	34	21.65	28.73
2	1066.00	44.75 AV	54.00	-9.25	1.21 V	34	16.02	28.73
3	*2427.00	110.21 PK			1.50 V	348	77.82	32.39
4	*2427.00	99.95 AV			1.50 V	348	67.56	32.39
5	*2452.00	110.40 PK			1.52 V	350	77.91	32.49
6	*2452.00	100.11 AV			1.52 V	350	67.62	32.49
7	4854.00	54.31 PK	74.00	-19.69	1.12 V	213	15.63	38.68
8	4854.00	48.15 AV	54.00	-5.85	1.12 V	213	9.47	38.68
9	4904.00	54.46 PK	74.00	-19.54	1.11 V	72	15.64	38.82
10	4904.00	48.26 AV	54.00	-5.74	1.11 V	72	9.44	38.82

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	49.25 PK	74.00	-24.75	1.18 H	56	20.52	28.73
2	1066.00	42.17 AV	54.00	-11.83	1.18 H	56	13.44	28.73
3	*2437.00	103.72 PK			1.40 H	152	71.29	32.43
4	*2437.00	93.31 AV			1.40 H	152	60.88	32.43
5	*2462.00	97.13 PK			1.38 H	150	64.60	32.53
6	*2462.00	86.68 AV			1.38 H	150	54.15	32.53
7	2483.50	59.40 PK	74.00	-14.60	1.38 H	150	26.79	32.61
8	2483.50	42.78 AV	54.00	-11.22	1.38 H	150	10.17	32.61
9	4874.00	49.35 PK	74.00	-24.65	1.20 H	274	10.61	38.74
10	4874.00	35.74 AV	54.00	-18.26	1.20 H	274	-3.00	38.74
11	4924.00	48.78 PK	74.00	-25.22	1.10 H	230	9.91	38.87
12	4924.00	35.26 AV	54.00	-18.74	1.10 H	230	-3.61	38.87

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	50.75 PK	74.00	-23.25	1.38 V	306	22.02	28.73
2	1066.00	45.12 AV	54.00	-8.88	1.38 V	306	16.39	28.73
3	*2437.00	111.80 PK			1.61 V	340	79.37	32.43
4	*2437.00	101.74 AV			1.61 V	340	69.31	32.43
5	*2462.00	105.43 PK			1.61 V	352	72.90	32.53
6	*2462.00	94.72 AV			1.61 V	352	62.19	32.53
7	2483.50	65.91 PK	74.00	-8.09	1.61 V	352	33.30	32.61
8	2483.50	51.26 AV	54.00	-2.74	1.61 V	352	18.65	32.61
9	4874.00	49.87 PK	74.00	-24.13	1.19 V	236	11.13	38.74
10	4874.00	37.35 AV	54.00	-16.65	1.19 V	236	-1.39	38.74
11	4924.00	49.25 PK	74.00	-24.75	1.16 V	329	10.38	38.87
12	4924.00	36.21 AV	54.00	-17.79	1.16 V	329	-2.66	38.87

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



**FOR TEST MODE C (POE MODE): DUAL TX**

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.35 PK	74.00	-25.65	1.15 H	162	19.62	28.73
2	1066.00	42.84 AV	54.00	-11.16	1.15 H	162	14.11	28.73
3	2390.00	52.65 PK	74.00	-21.35	1.32 H	348	20.40	32.25
4	2390.00	44.21 AV	54.00	-9.79	1.32 H	348	11.96	32.25
5	*2412.00	99.52 PK			1.32 H	248	67.18	32.34
6	*2412.00	90.85 AV			1.32 H	248	58.51	32.34
7	*2437.00	104.96 PK			1.34 H	351	72.53	32.43
8	*2437.00	96.02 AV			1.34 H	351	63.59	32.43
9	4824.00	47.96 PK	74.00	-26.04	1.10 H	54	9.36	38.60
10	4824.00	35.64 AV	54.00	-18.36	1.10 H	54	-2.96	38.60
11	4874.00	48.21 PK	74.00	-25.79	1.10 H	54	9.47	38.74
12	4874.00	35.96 AV	54.00	-18.04	1.10 H	54	-2.78	38.74

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	49.26 PK	74.00	-24.74	1.06 V	341	20.53	28.73
2	1066.00	46.08 AV	54.00	-7.92	1.06 V	341	17.35	28.73
3	2390.00	68.82 PK	74.00	-5.18	1.12 V	20	36.57	32.25
4	2390.00	52.81 AV	54.00	-1.19	1.12 V	20	20.56	32.25
5	*2412.00	108.50 PK			1.12 V	20	76.16	32.34
6	*2412.00	99.36 AV			1.12 V	20	67.02	32.34
7	*2437.00	113.86 PK			1.10 V	15	81.43	32.43
8	*2437.00	104.32 AV			1.10 V	15	71.89	32.43
9	4824.00	49.36 PK	74.00	-24.64	1.10 V	34	10.76	38.60
10	4824.00	37.61 AV	54.00	-16.39	1.10 V	34	-0.99	38.60
11	4874.00	50.23 PK	74.00	-23.77	1.18 V	266	11.49	38.74
12	4874.00	38.44 AV	54.00	-15.56	1.18 V	266	-0.30	38.74

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.32 PK	74.00	-25.68	1.10 H	48	19.59	28.73
2	1066.00	43.05 AV	54.00	-10.95	1.10 H	48	14.32	28.73
3	*2437.00	105.13 PK			1.32 H	353	72.70	32.43
4	*2437.00	96.22 AV			1.32 H	353	63.79	32.43
5	*2462.00	100.15 PK			1.29 H	350	67.62	32.53
6	*2462.00	91.42 AV			1.29 H	350	58.89	32.53
7	2483.50	53.02 PK	74.00	-20.98	1.29 H	350	20.41	32.61
8	2483.50	44.59 AV	54.00	-9.41	1.29 H	350	11.98	32.61
9	4874.00	48.35 PK	74.00	-25.65	1.19 H	255	9.61	38.74
10	4874.00	36.11 AV	54.00	-17.89	1.19 H	255	-2.63	38.74
11	4924.00	48.11 PK	74.00	-25.89	1.12 H	84	9.24	38.87
12	4924.00	35.72 AV	54.00	-18.28	1.12 H	84	-3.15	38.87

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	49.48 PK	74.00	-24.52	1.13 V	229	20.75	28.73
2	1066.00	46.25 AV	54.00	-7.75	1.13 V	229	17.52	28.73
3	*2437.00	113.95 PK			1.12 V	24	81.52	32.43
4	*2437.00	104.84 AV			1.12 V	24	72.41	32.43
5	*2462.00	109.02 PK			1.13 V	17	76.49	32.53
6	*2462.00	99.98 AV			1.13 V	17	67.45	32.53
7	2483.50	69.28 PK	74.00	-4.72	1.13 V	17	36.67	32.61
8	2483.50	52.31 AV	54.00	-1.69	1.13 V	17	19.70	32.61
9	4874.00	50.63 PK	74.00	-23.37	1.13 V	241	11.89	38.74
10	4874.00	38.85 AV	54.00	-15.15	1.13 V	241	0.11	38.74
11	4924.00	48.75 PK	74.00	-25.25	1.18 V	29	9.88	38.87
12	4924.00	36.83 AV	54.00	-17.17	1.18 V	29	-2.04	38.87

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

### 4.3 BAND EDGES MEASUREMENT

#### 4.3.1 LIMITS OF BAND EDGES MEASUREMENT

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

#### 4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP 40	100040	Jun. 07, 2007

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

#### 4.3.3 TEST PROCEDURE

##### For Single TX:

The transmitter output was connected to the spectrum analyzer via a low loss cable. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 10Hz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots (Peak RBW = VBW = 100kHz; Average RBW = 1MHz, VBW = 10Hz) are attached on the following pages.

##### For Dual TX:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100MHz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots (Peak RBW = VBW = 100kHz; Average RBW = 1MHz, VBW = 10Hz)

**NOTE:** The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.

#### 4.3.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.3.5 EUT OPERATING CONDITION

Same as Item 4.3.6

#### 4.3.6 TEST RESULTS

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

#### **SINGLE TX: 802.11b DSSS MODULATION (TEST MODE B)**

**NOTE 1:** The band edge emission plot on the next second page shows 50.16dBc between carrier maximum power and local maximum emission in restrict band (2.38572GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 107.48dBuV/m (Peak), so the maximum field strength in restrict band is  $107.48 - 50.16 = 57.32$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot of on the next second page shows 55.14dBc between carrier maximum power and local maximum emission in restrict band (2.38572GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 103.15dBuV/m (Average), so the maximum field strength in restrict band is  $103.15 - 55.14 = 48.01$ dBuV/m which is under 54dBuV/m limit.

**NOTE 2:** The band edge emission plot on the next third page shows 52.61dBc between carrier maximum power and local maximum emission in restrict band (2.48902GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 109.81dBuV/m (Peak), so the maximum field strength in restrict band is  $109.81 - 52.61 = 57.20$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next fourth page shows 57.57dBc between carrier maximum power and local maximum emission in restrict band (2.48472GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 105.27dBuV/m (Average), so the maximum field strength in restrict band is  $105.27 - 57.57 = 47.70$ dBuV/m which is under 54dBuV/m limit.

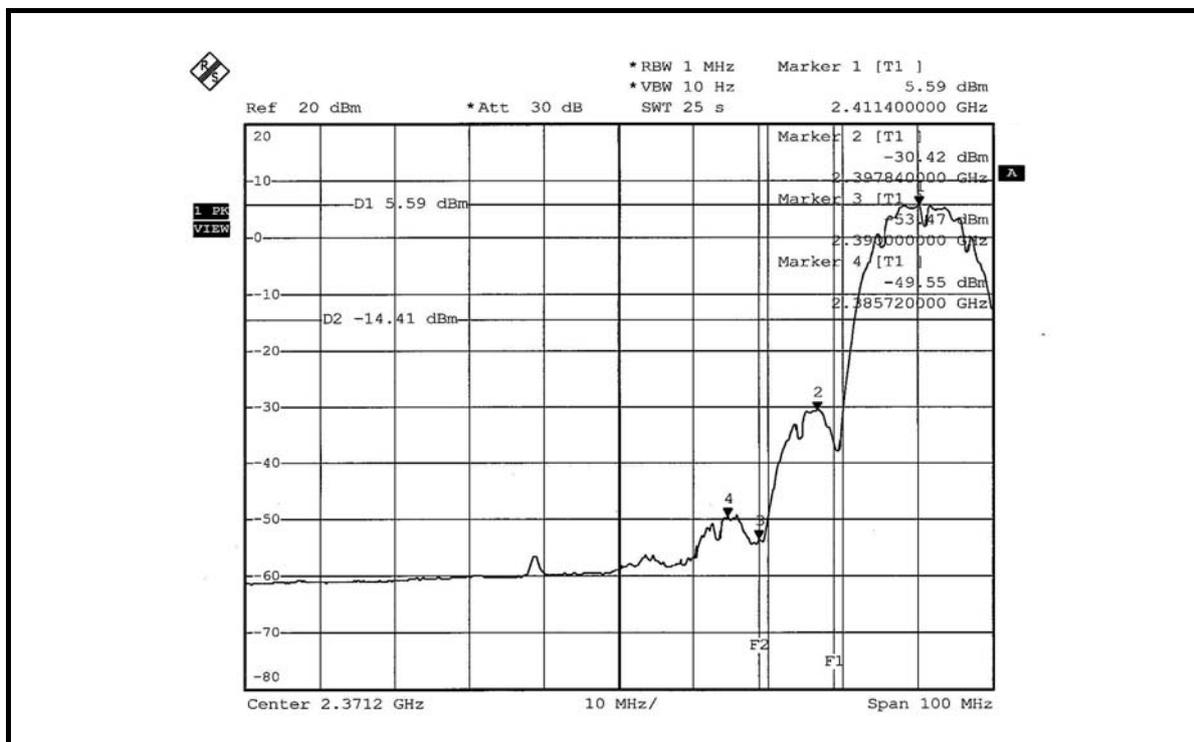
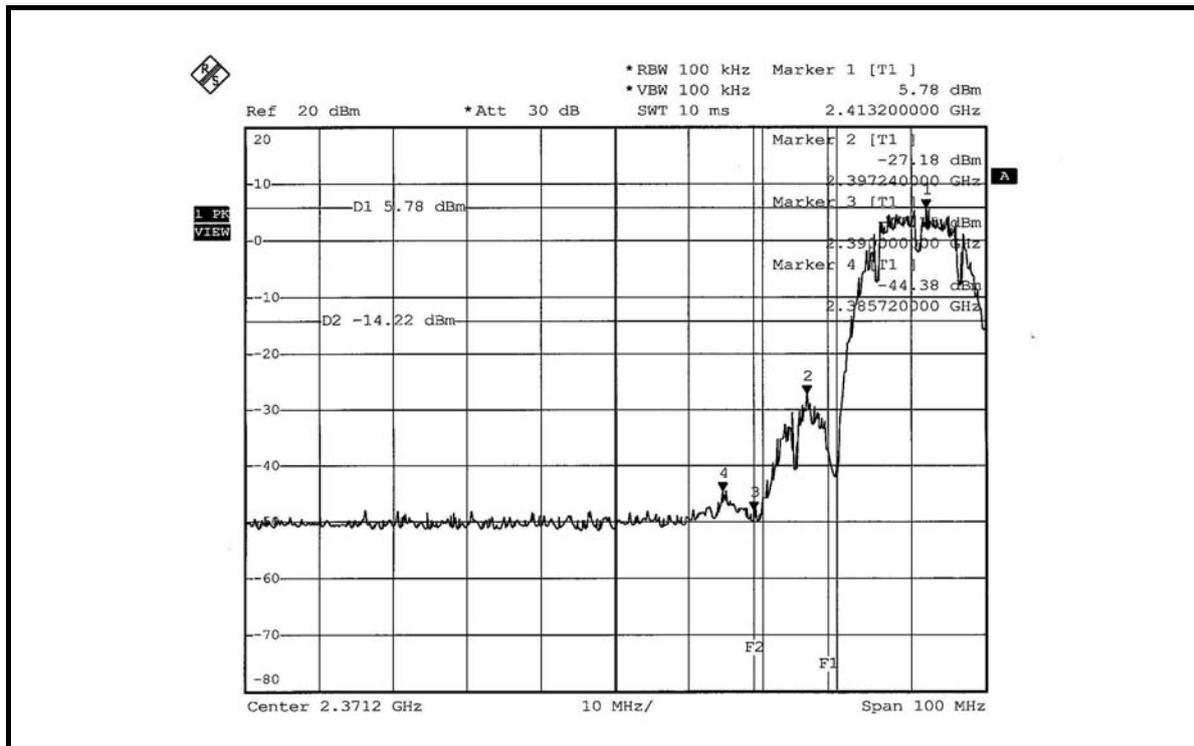
### **SINGLE TX: 802.11b DSSS MODULATION (TEST MODE C)**

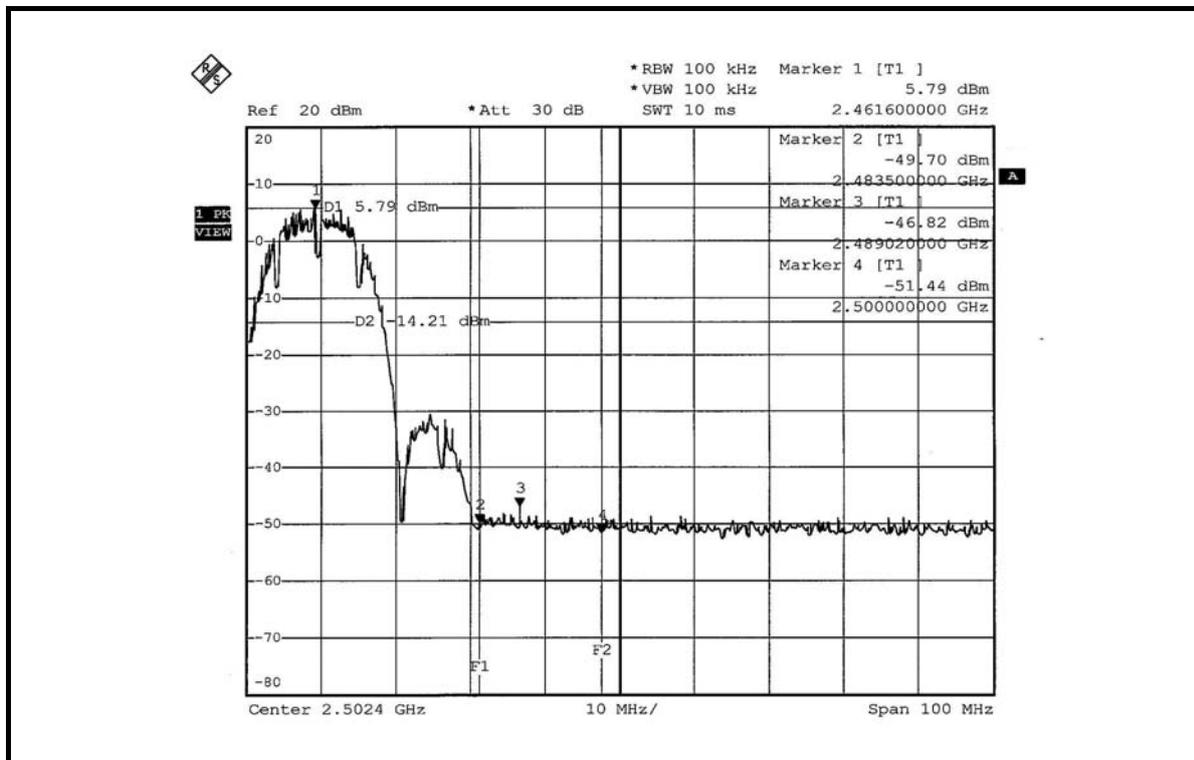
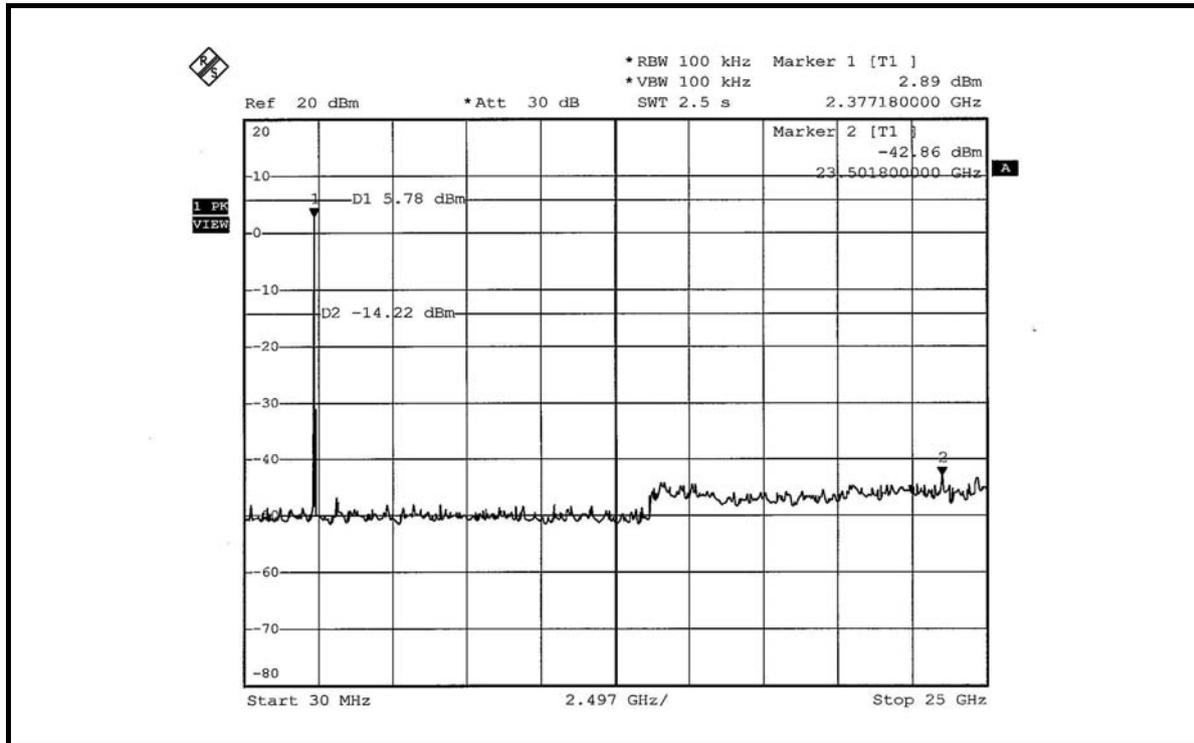
**NOTE 1:** The band edge emission plot on the next page shows 50.16dBc between carrier maximum power and local maximum emission in restrict band (2.38572GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 110.59dBuV/m (Peak), so the maximum field strength in restrict band is  $110.59 - 50.16 = 60.43$ dBuV/m which is under 74dBuV/m limit.

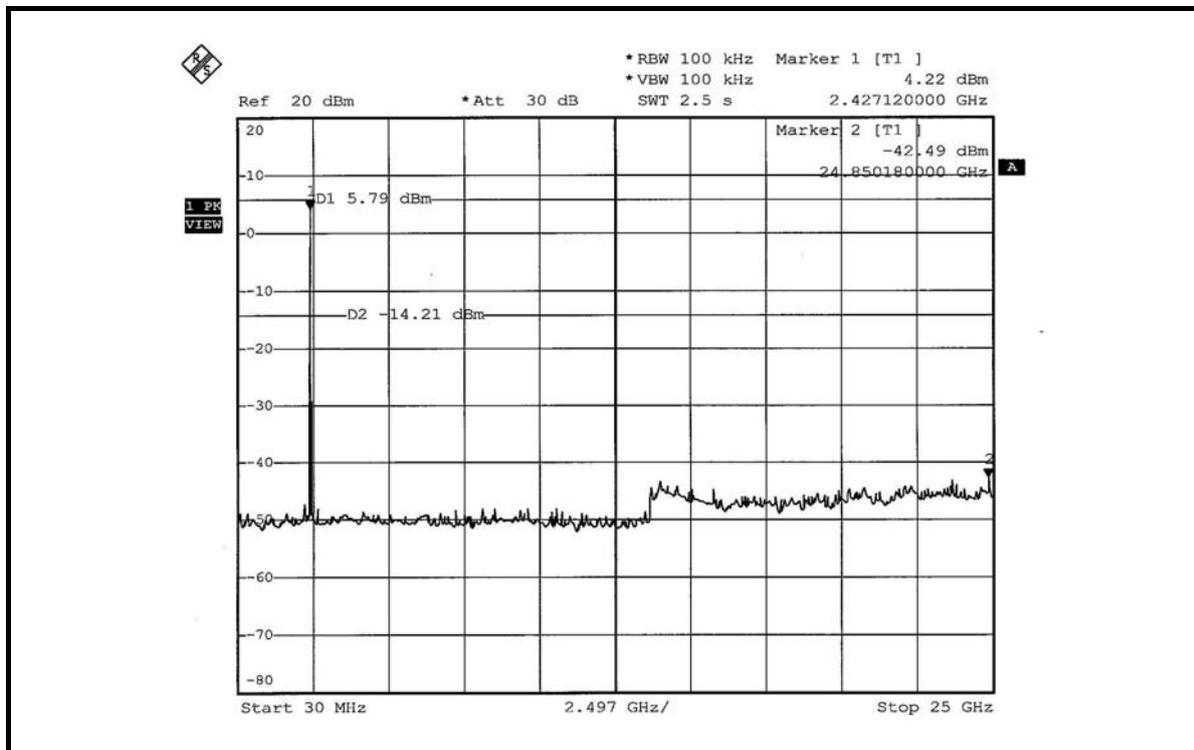
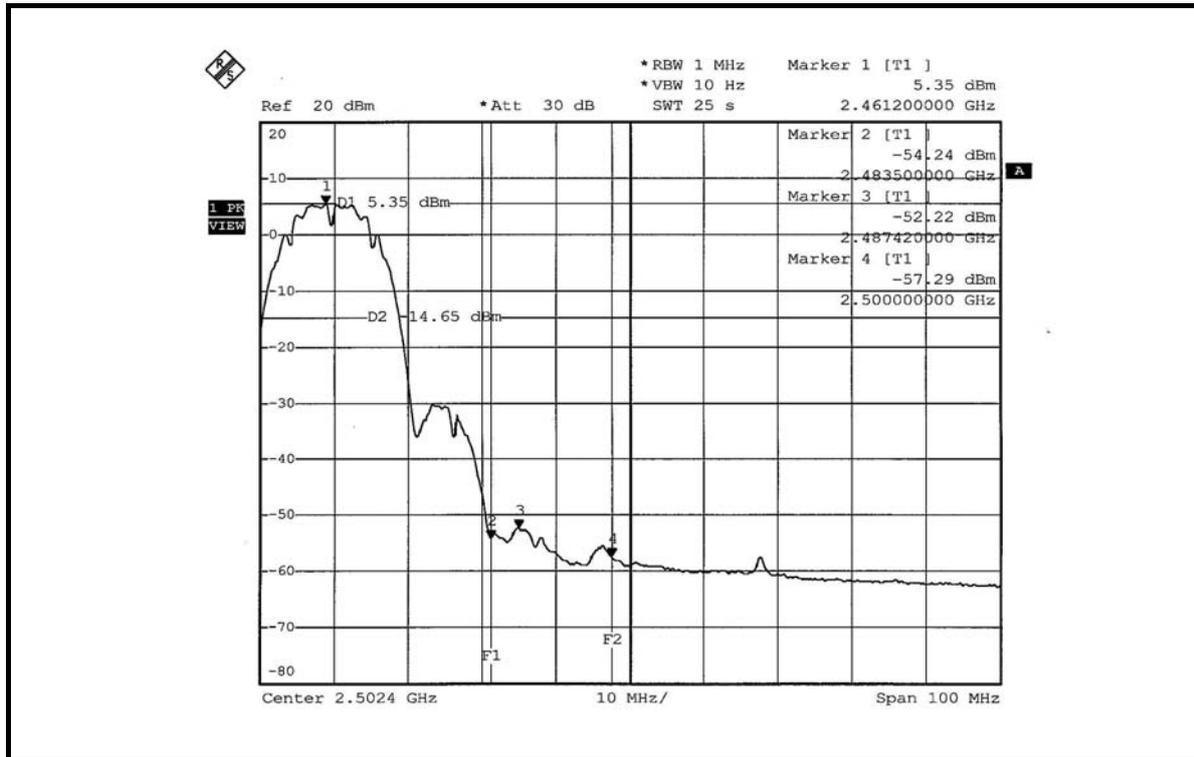
The band edge emission plot of on the next page shows 55.14dBc between carrier maximum power and local maximum emission in restrict band (2.38572GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 106.05dBuV/m (Average), so the maximum field strength in restrict band is  $106.05 - 55.14 = 50.91$ dBuV/m which is under 54dBuV/m limit.

**NOTE 2:** The band edge emission plot on the next second page shows 52.61dBc between carrier maximum power and local maximum emission in restrict band (2.48902GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 113.14dBuV/m (Peak), so the maximum field strength in restrict band is  $113.14 - 52.61 = 60.53$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next third page shows 57.57dBc between carrier maximum power and local maximum emission in restrict band (2.48472GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 108.27dBuV/m (Average), so the maximum field strength in restrict band is  $108.27 - 57.57 = 50.70$ dBuV/m which is under 54dBuV/m limit.







### **SINGLE TX: 802.11g OFDM MODULATION (TEST MODE B)**

**NOTE 1:** The band edge emission plot on the next second page shows 45.78dBc between carrier maximum power and local maximum emission in restrict band (2.39000GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 105.96dBuV/m (Peak), so the maximum field strength in restrict band is  $105.96 - 45.78 = 60.18$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot of on the next second page shows 48.60dBc between carrier maximum power and local maximum emission in restrict band (2.39000GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 95.24dBuV/m (Average), so the maximum field strength in restrict band is  $95.24 - 48.60 = 46.64$ dBuV/m which is under 54dBuV/m limit.

**NOTE 2:** The band edge emission plot on the next third second page shows 44.96dBc between carrier maximum power and local maximum emission in restrict band (2.48430GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 105.93dBuV/m (Peak), so the maximum field strength in restrict band is  $105.93 - 44.96 = 60.97$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next fourth page shows 49.39dBc between carrier maximum power and local maximum emission in restrict band (2.48350GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 95.26dBuV/m (Average), so the maximum field strength in restrict band is  $95.26 - 49.39 = 45.87$ dBuV/m which is under 54dBuV/m limit.

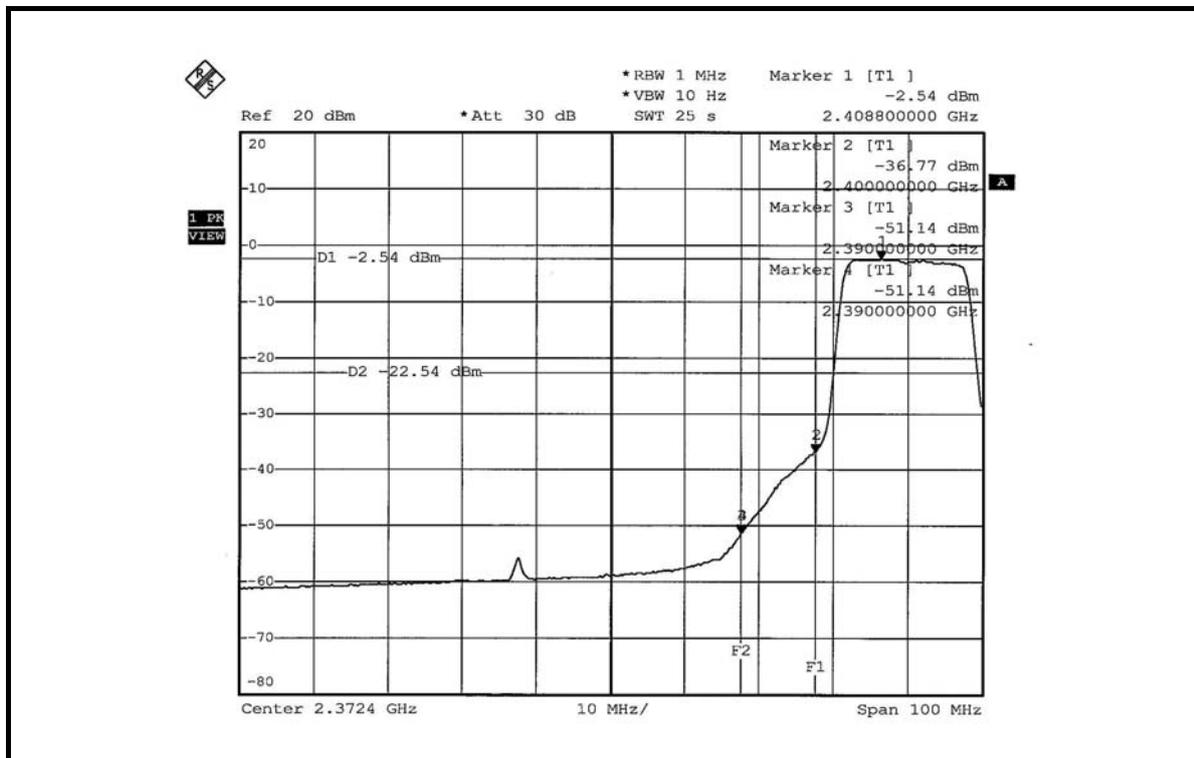
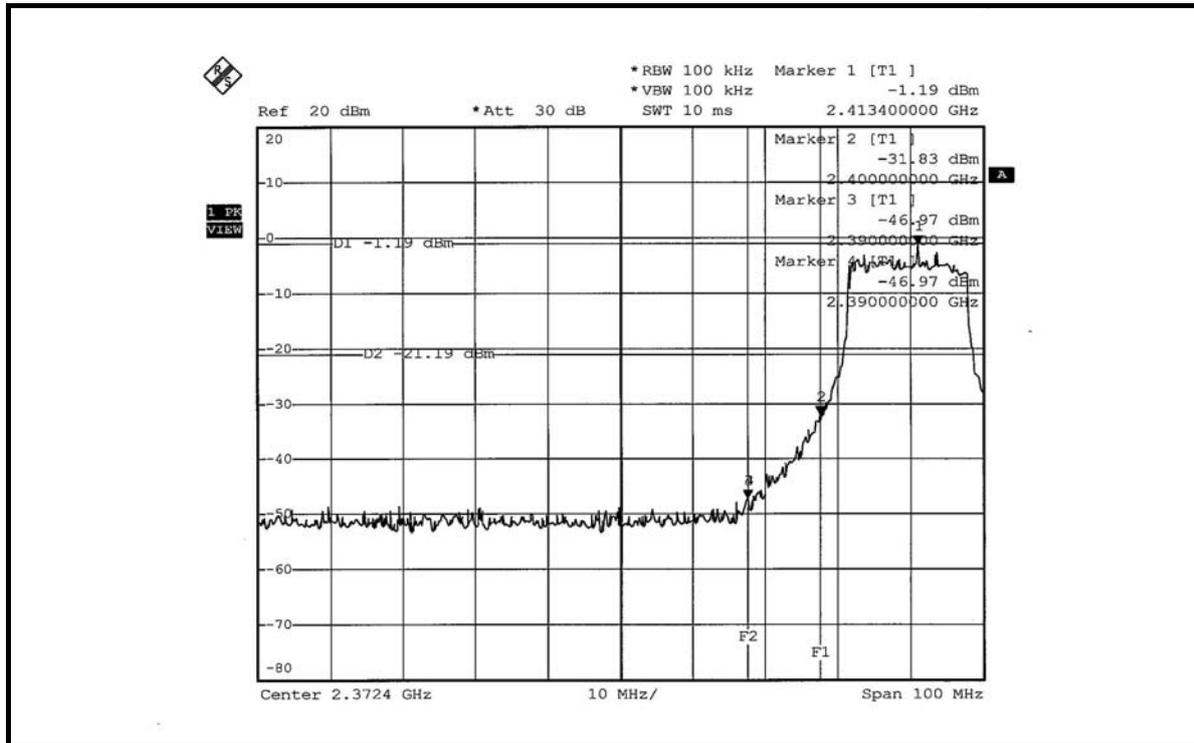
### **SINGLE TX: 802.11g OFDM MODULATION (TEST MODE C)**

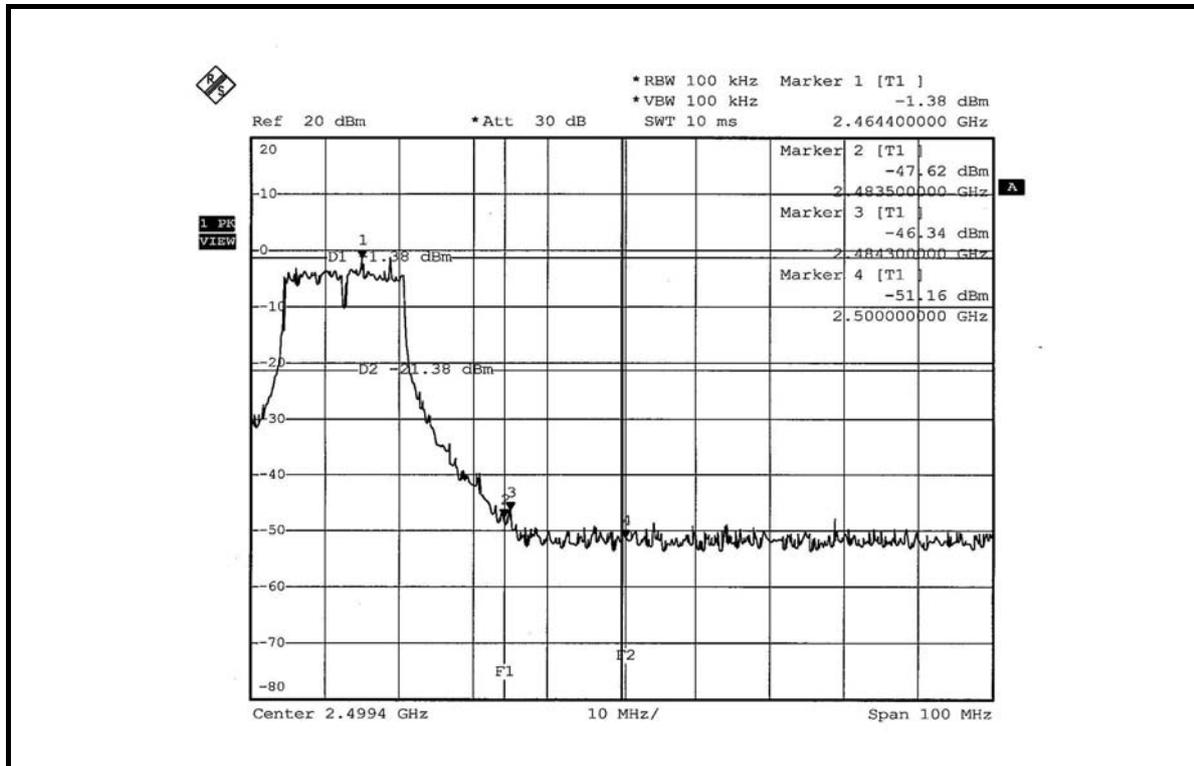
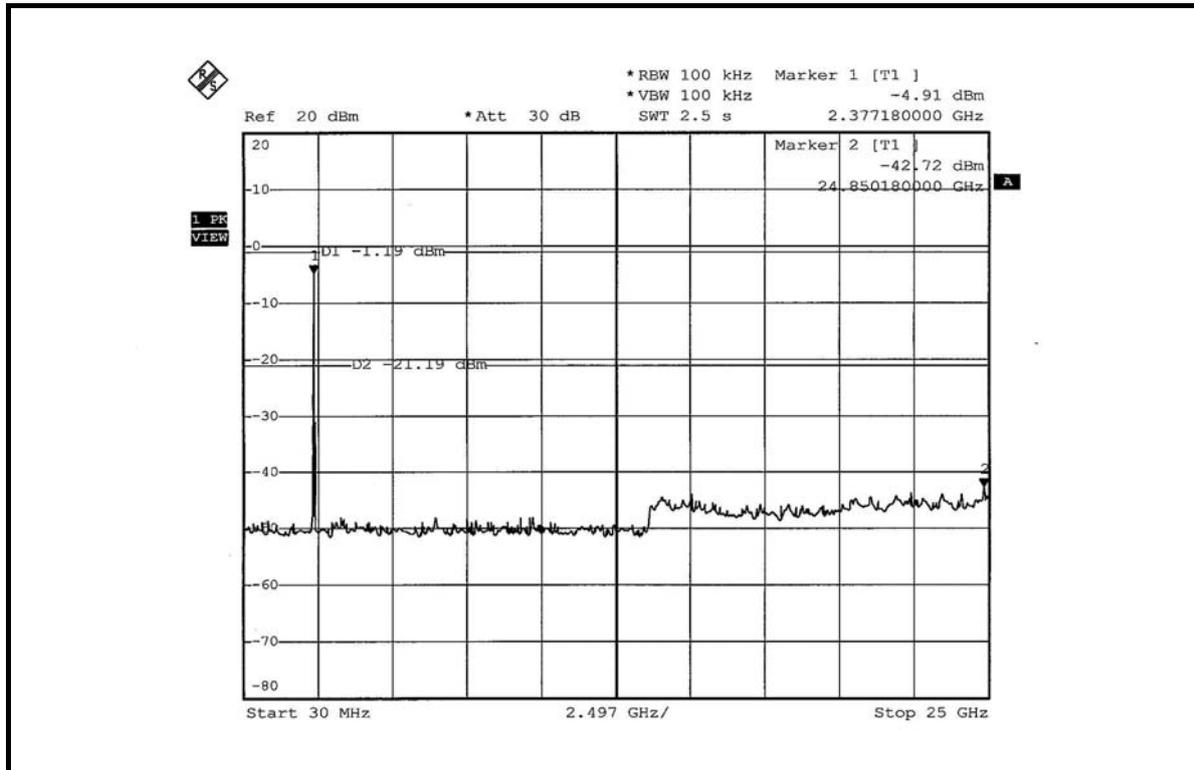
**NOTE 1:** The band edge emission plot on the next page shows 45.78dBc between carrier maximum power and local maximum emission in restrict band (2.39000GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 109.02dBuV/m (Peak), so the maximum field strength in restrict band is  $109.02 - 45.78 = 63.24$ dBuV/m which is under 74dBuV/m limit.

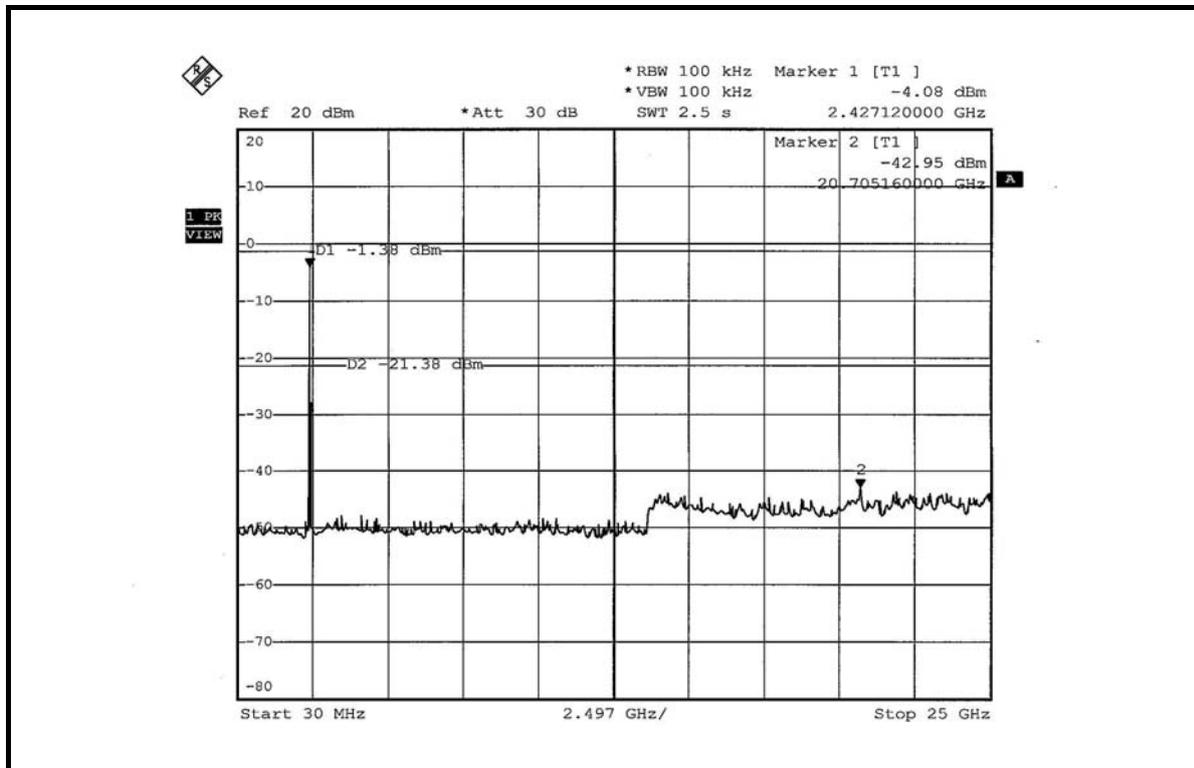
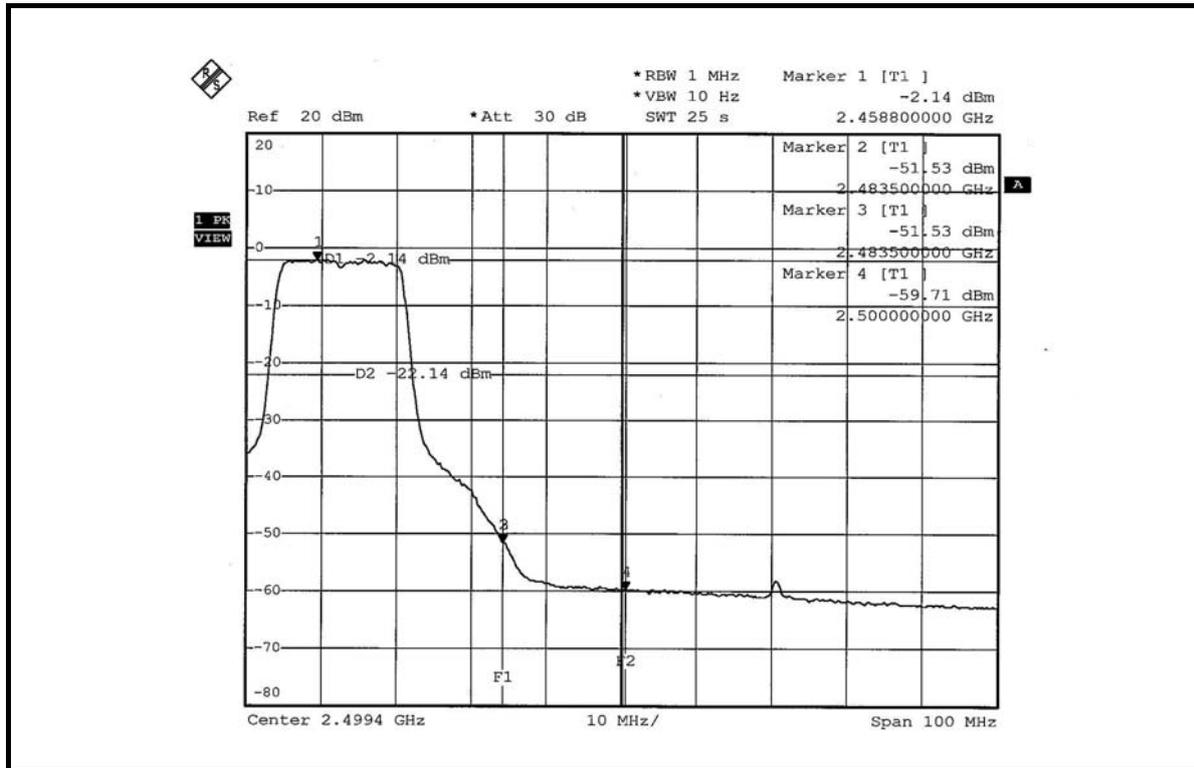
The band edge emission plot of on the next page shows 48.60dBc between carrier maximum power and local maximum emission in restrict band (2.39000GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 99.85dBuV/m (Average), so the maximum field strength in restrict band is  $99.85 - 48.60 = 51.25$ dBuV/m which is under 54dBuV/m limit.

**NOTE 2:** The band edge emission plot on the next second page shows 44.96dBc between carrier maximum power and local maximum emission in restrict band (2.48430GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 109.56dBuV/m (Peak), so the maximum field strength in restrict band is  $109.56 - 44.96 = 64.60$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next third page shows 49.39dBc between carrier maximum power and local maximum emission in restrict band (2.48350GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 100.47dBuV/m (Average), so the maximum field strength in restrict band is  $100.47 - 49.39 = 51.08$ dBuV/m which is under 54dBuV/m limit.







## DUAL TX: 802.11b DSSS & 802.11b DSSS MODULATION (TEST MODE B)

### NOTE 1:

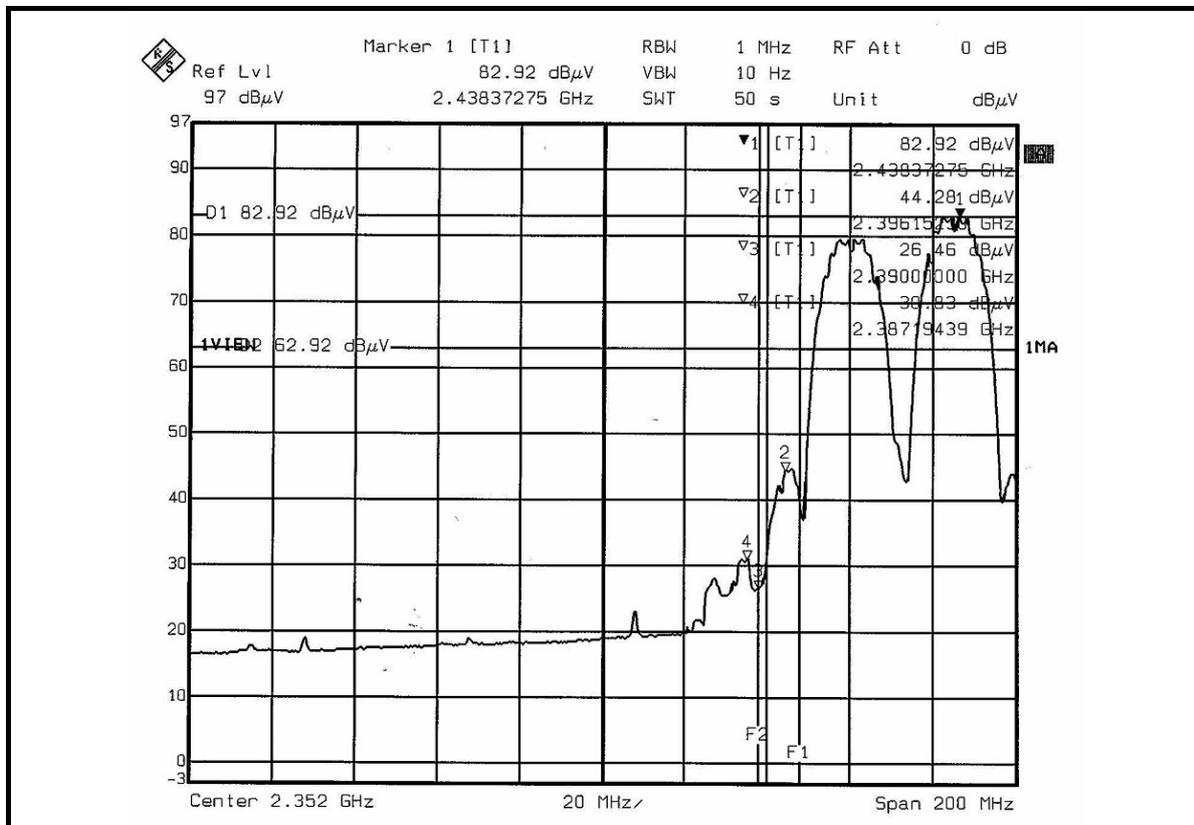
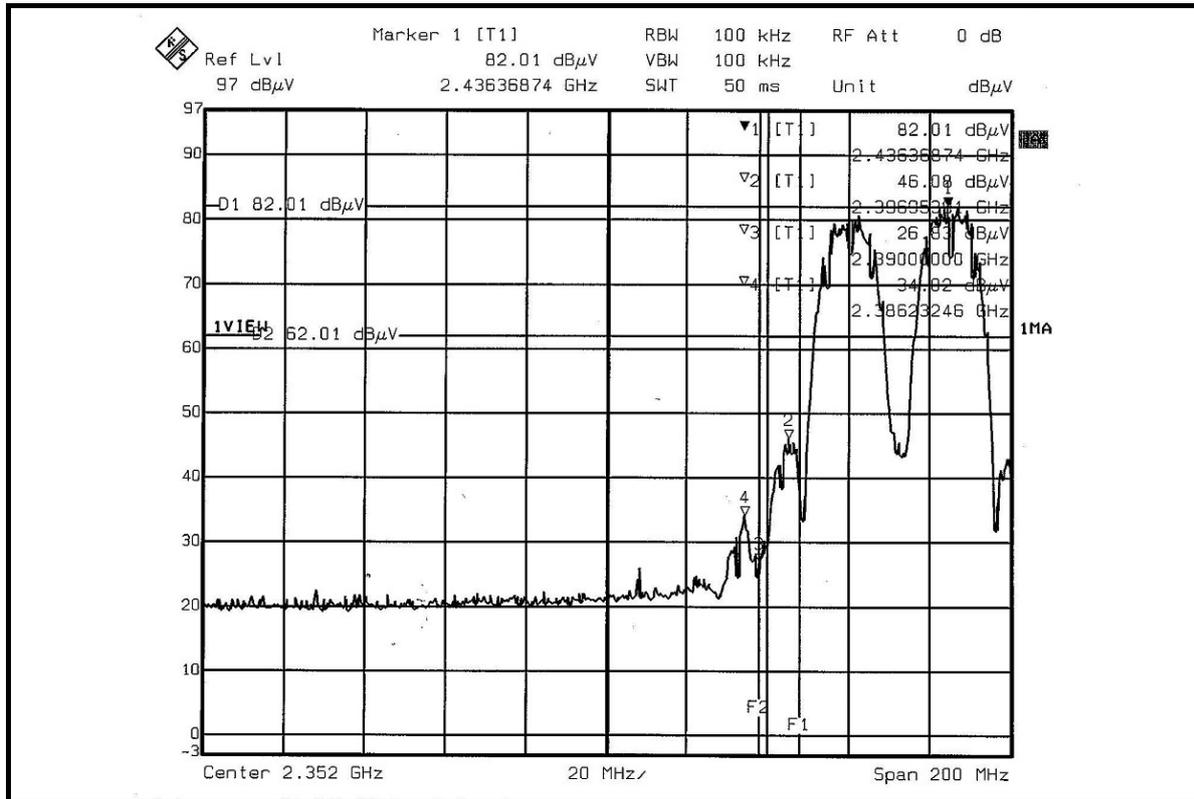
The band edge emission plot on the next page shows 47.99dBc between carrier maximum power and local maximum emission in restrict band (2.38623GHz). The emission of carrier strength list in the test result of channel 1 & channel 6 at the item 4.2.7 is 109.26dBuV/m (Peak), so the maximum field strength in restrict band is  $109.26 - 47.99 = 61.27$ dBuV/m which is under 74dBuV/m limit.

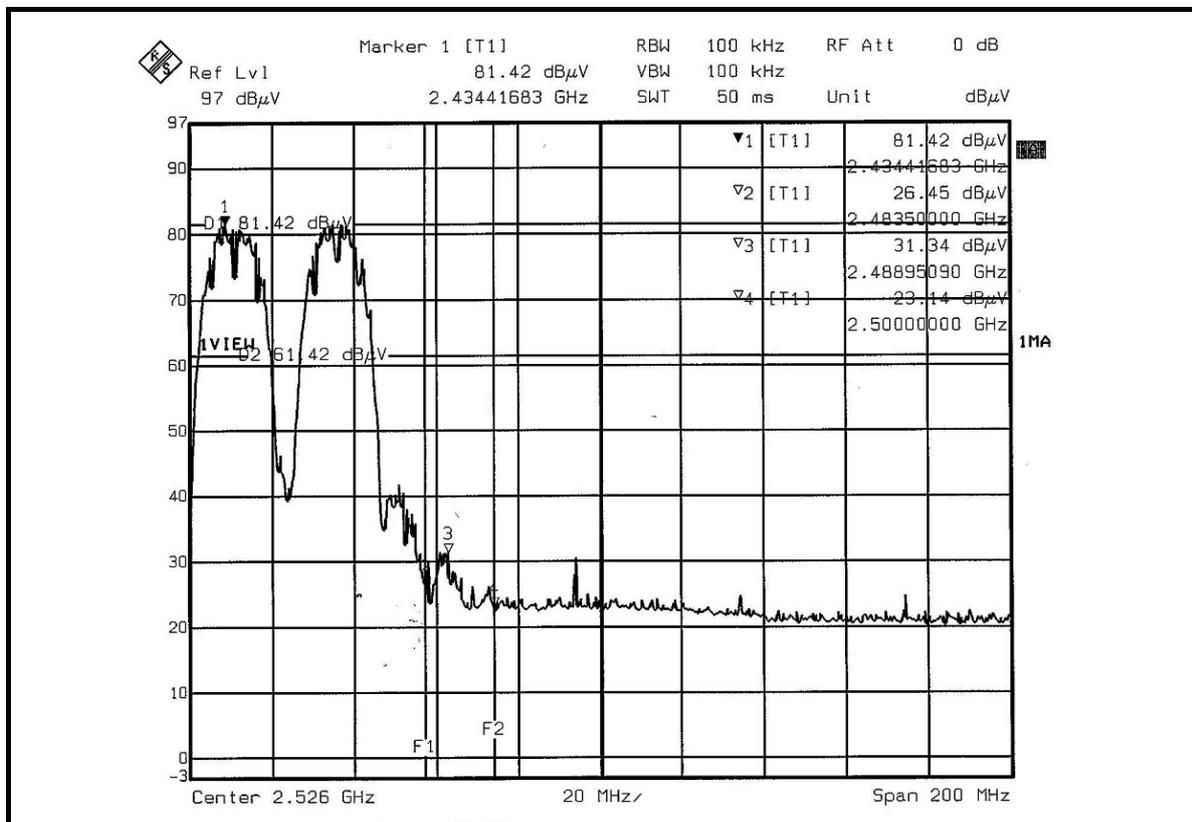
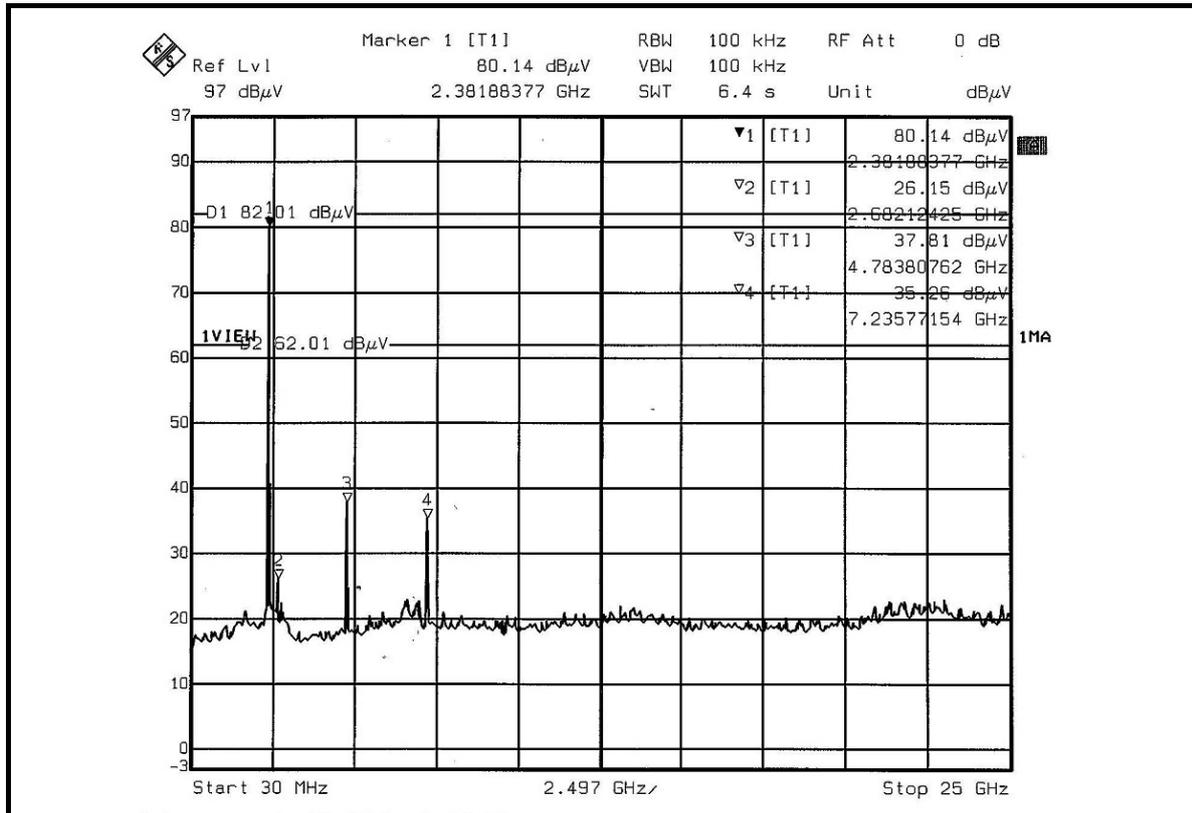
The band edge emission plot of on the next page shows 52.09dBc between carrier maximum power and local maximum emission in restrict band (2.38719GHz). The emission of carrier strength list in the test result of channel 1 & channel 6 at the item 4.2.7 is 104.74dBuV/m (Average), so the maximum field strength in restrict band is  $104.74 - 52.09 = 52.65$ dBuV/m which is under 54dBuV/m limit.

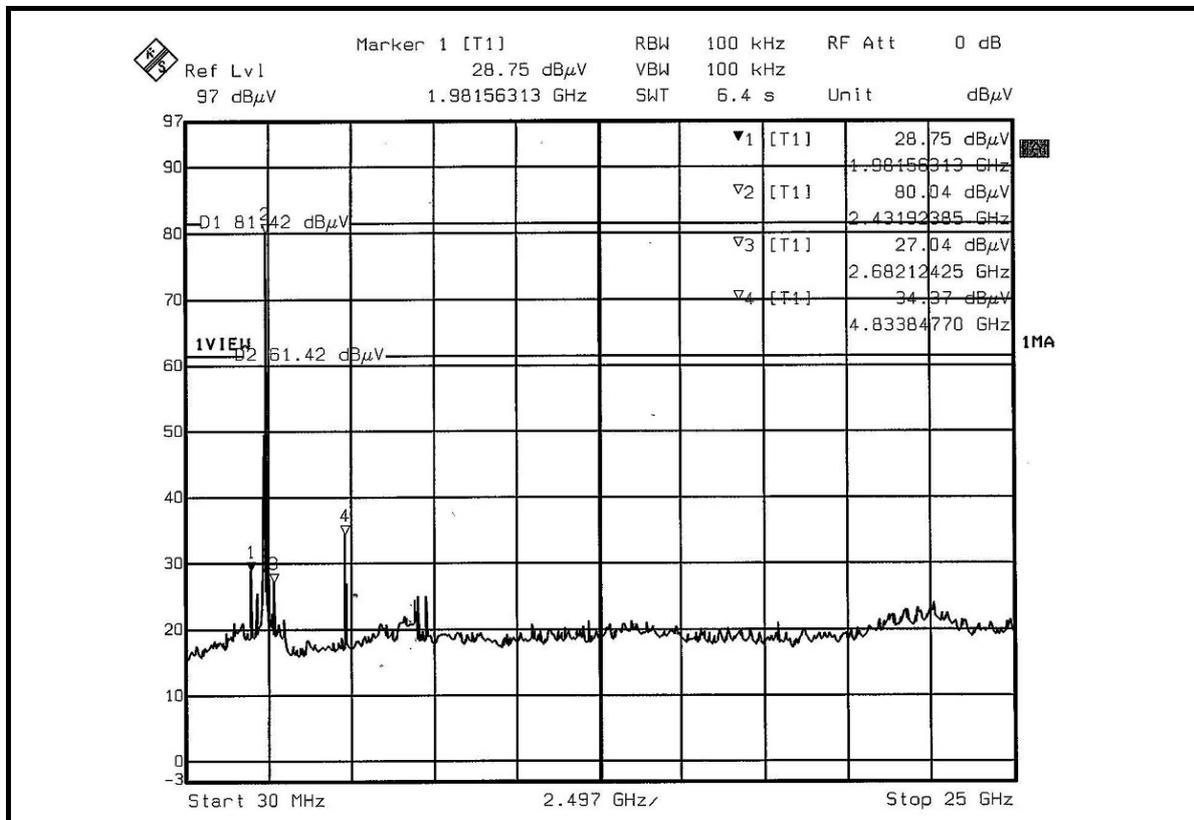
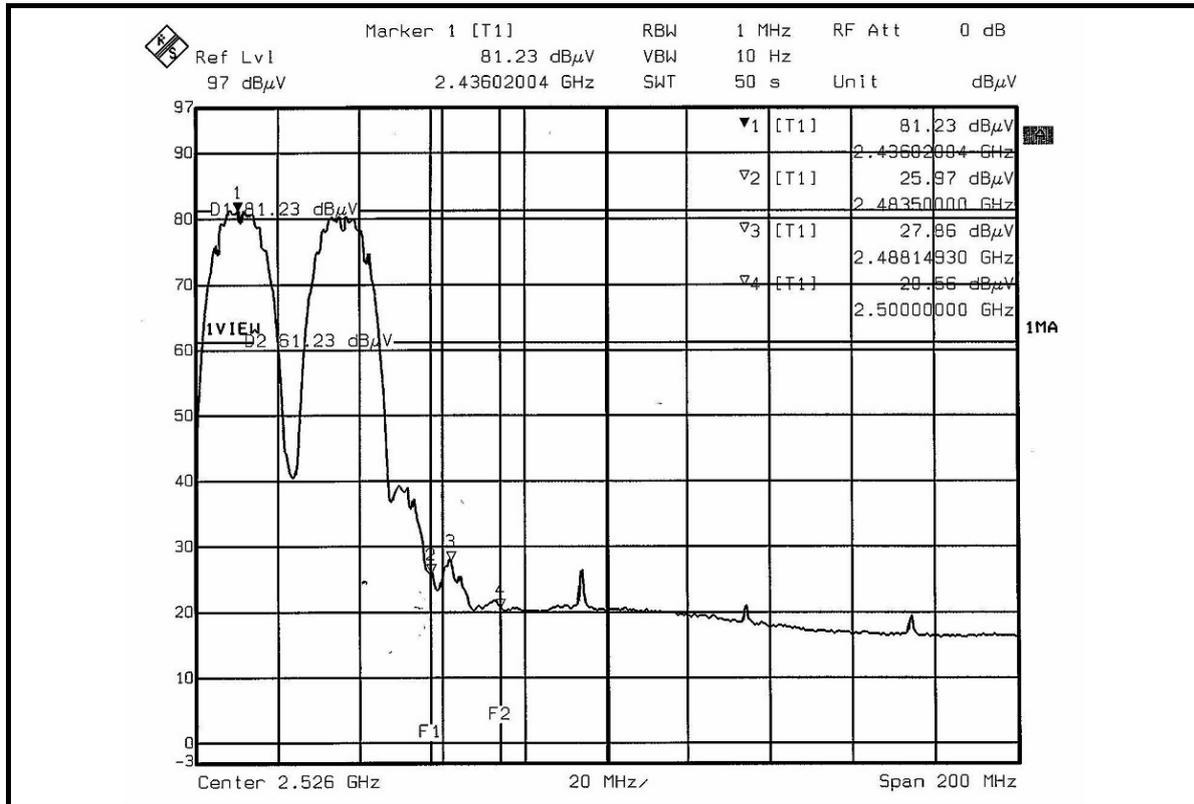
### NOTE 2:

The band edge emission plot on the next second page shows 50.08dBc between carrier maximum power and local maximum emission in restrict band (2.48895GHz). The emission of carrier strength list in the test result of channel 6 & channel 11 at the item 4.2.7 is 109.85dBuV/m (Peak), so the maximum field strength in restrict band is  $109.85 - 50.08 = 59.77$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next third page shows 53.37dBc between carrier maximum power and local maximum emission in restrict band (2.48815GHz). The emission of carrier strength list in the test result of channel 6 & channel 11 at the item 4.2.7 is 105.31dBuV/m (Average), so the maximum field strength in restrict band is  $105.31 - 53.37 = 51.94$ dBuV/m which is under 54dBuV/m limit.







## DUAL TX: 802.11b DSSS & 802.11b DSSS MODULATION (TEST MODE C)

### NOTE 1:

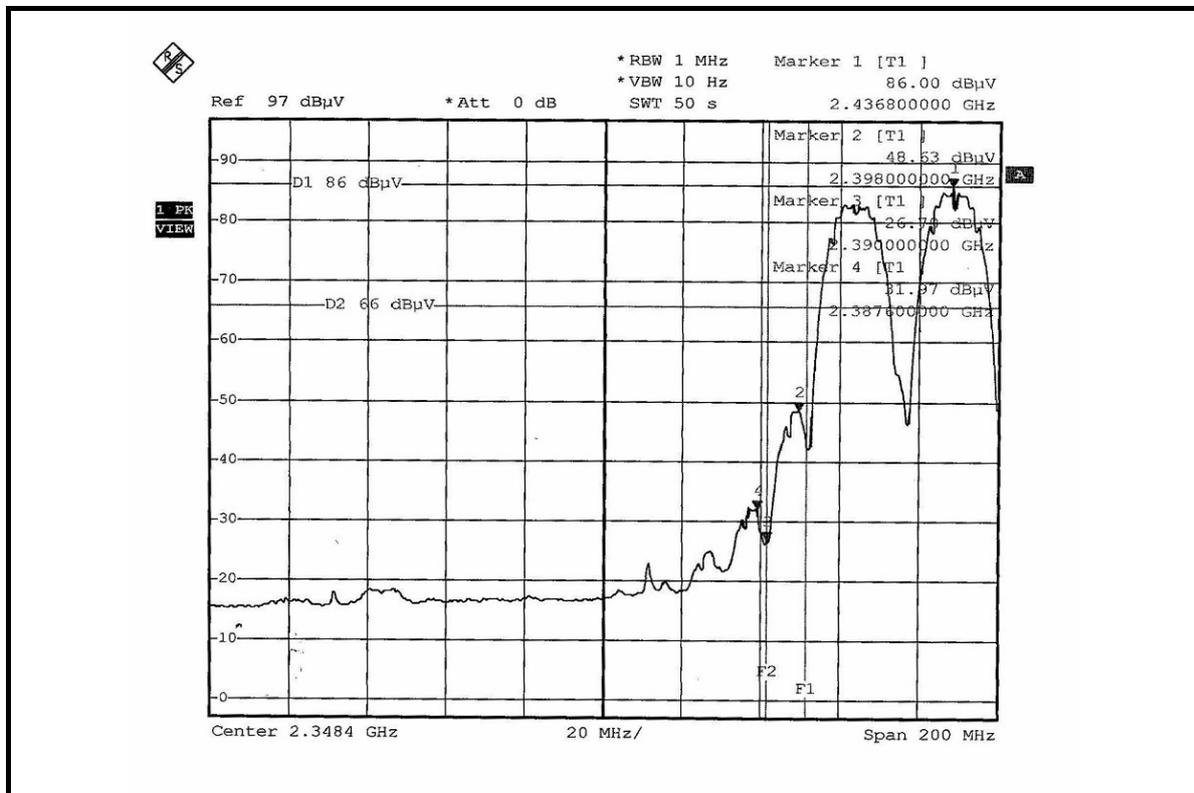
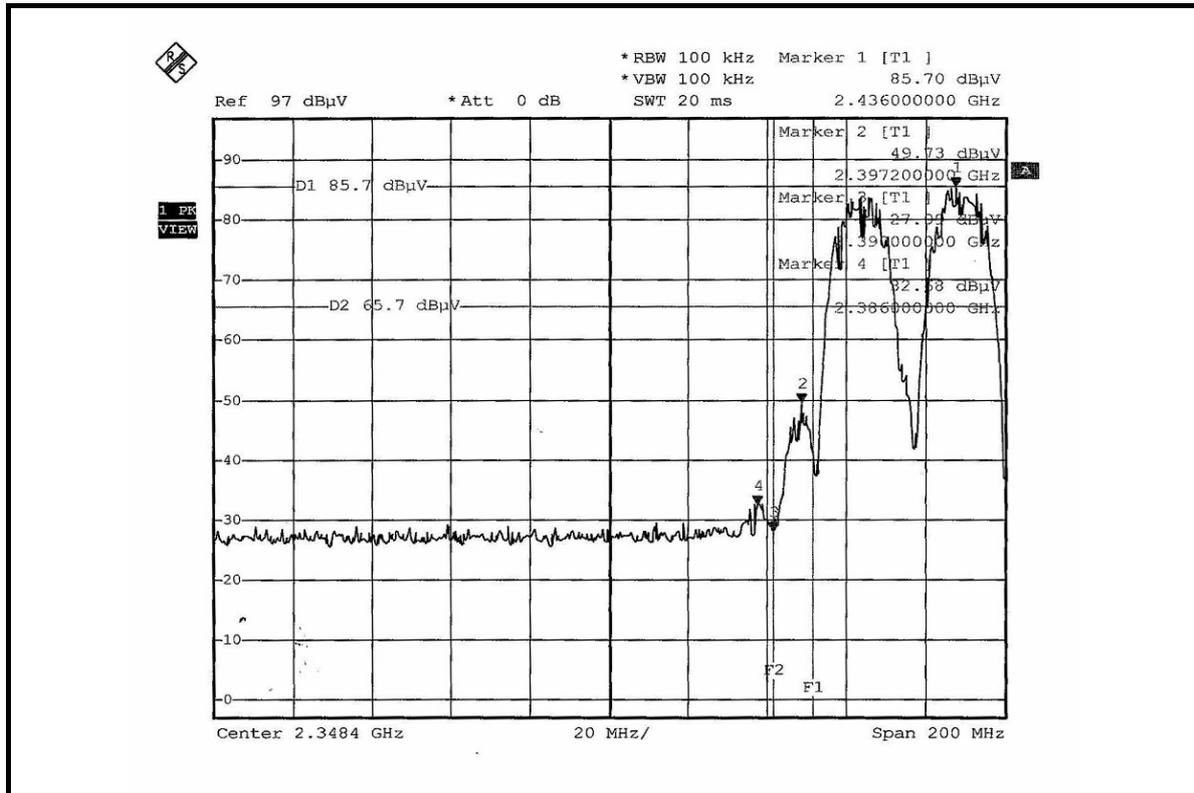
The band edge emission plot on the next page shows 53.12dBc between carrier maximum power and local maximum emission in restrict band (2.38600GHz). The emission of carrier strength list in the test result of channel 1 & channel 6 at the item 4.2.7 is 111.16dBuV/m (Peak), so the maximum field strength in restrict band is  $111.16 - 53.12 = 58.04$ dBuV/m which is under 74dBuV/m limit.

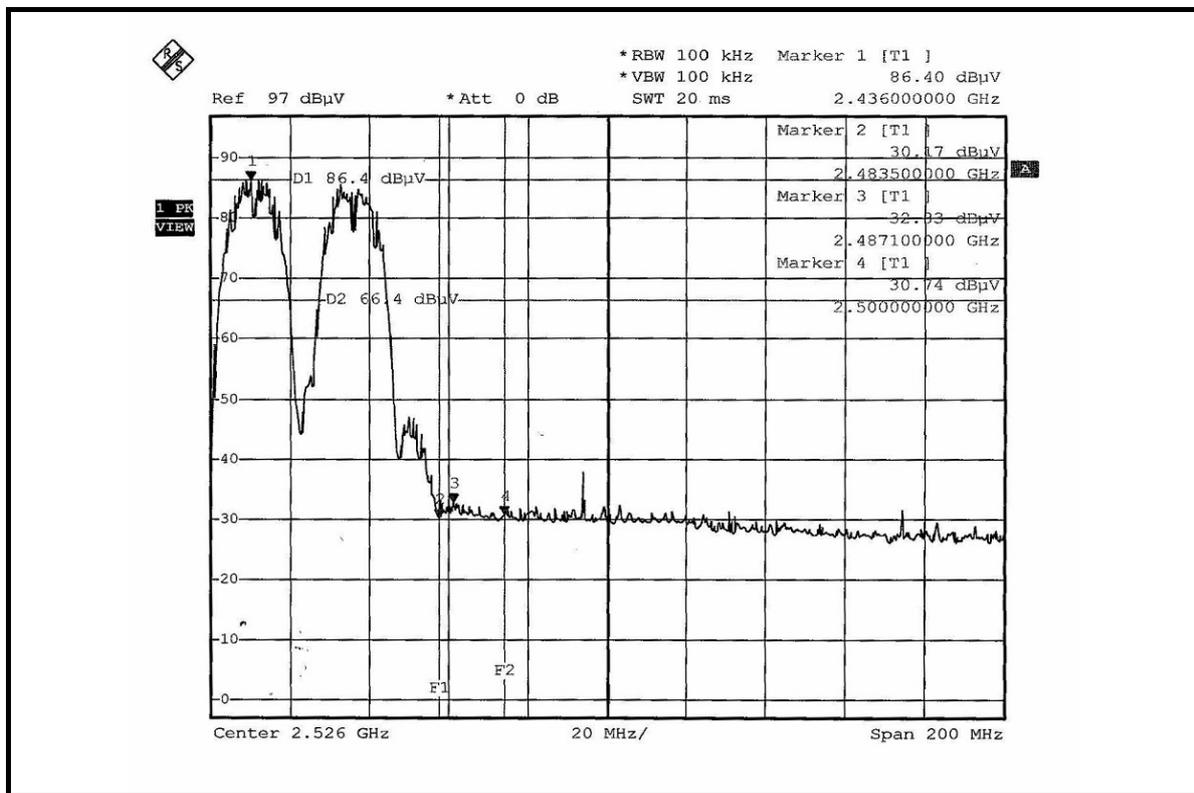
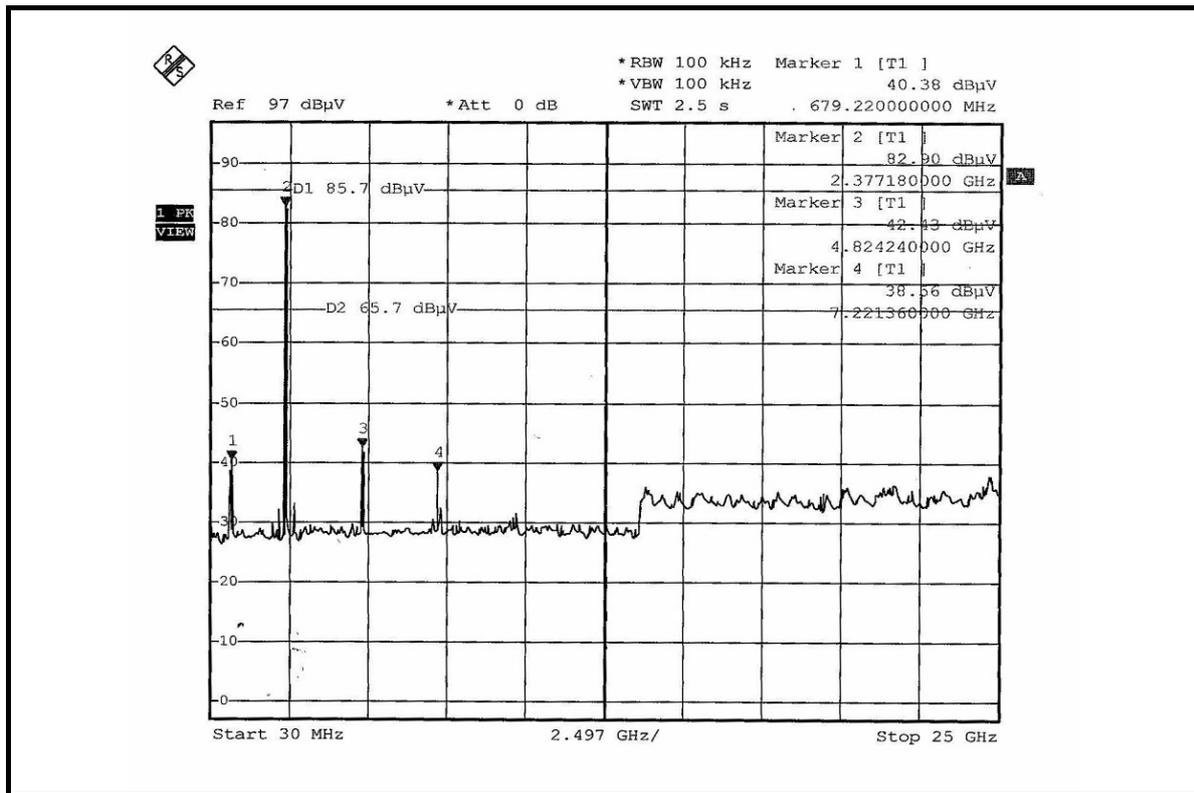
The band edge emission plot of on the next page shows 54.03dBc between carrier maximum power and local maximum emission in restrict band (2.38760GHz). The emission of carrier strength list in the test result of channel 1 & channel 6 at the item 4.2.7 is 106.69dBuV/m (Average), so the maximum field strength in restrict band is  $106.69 - 54.03 = 52.66$ dBuV/m which is under 54dBuV/m limit.

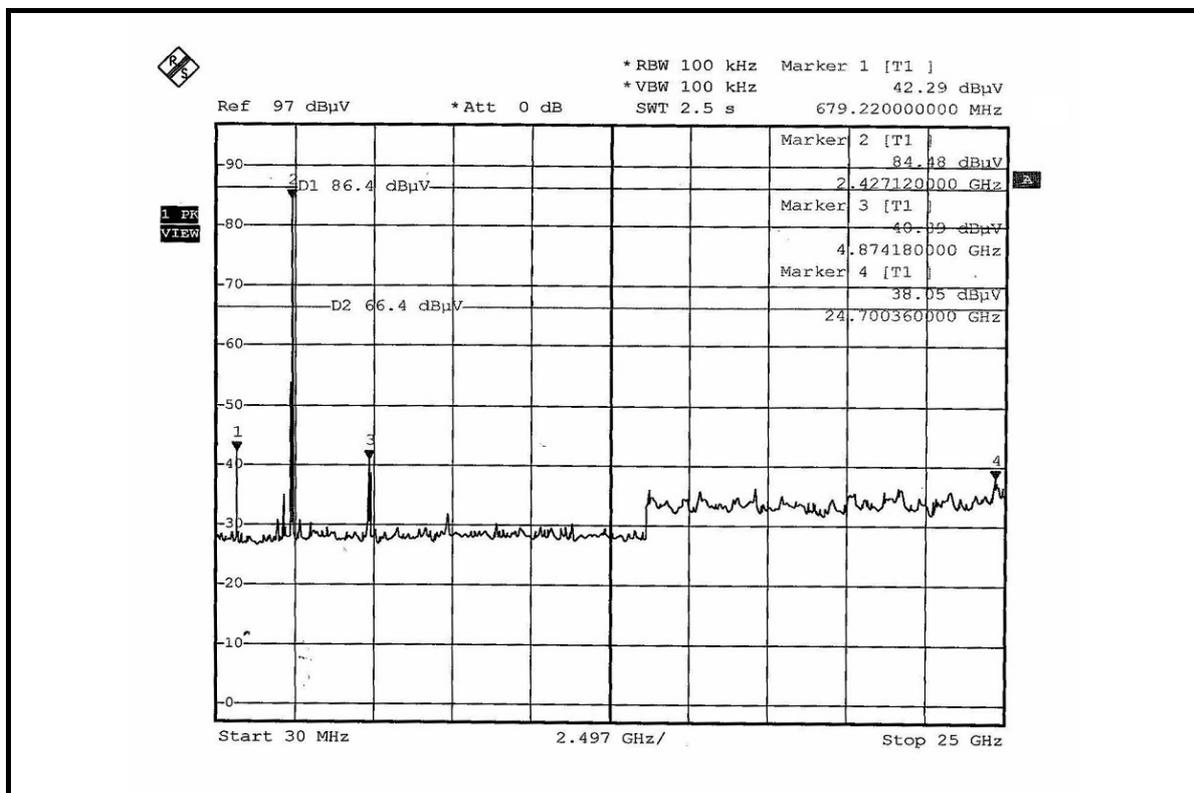
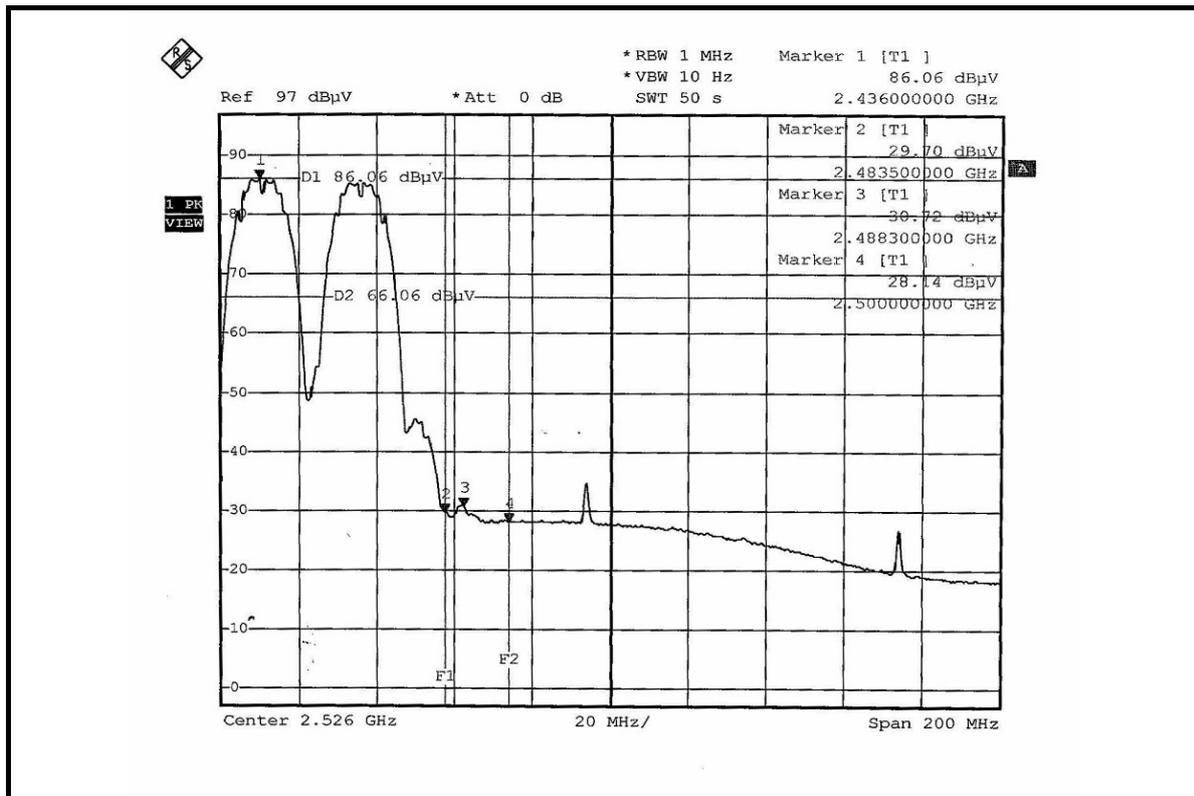
### NOTE 2:

The band edge emission plot on the next second page shows 53.57dBc between carrier maximum power and local maximum emission in restrict band (2.48710GHz). The emission of carrier strength list in the test result of channel 6 & channel 11 at the item 4.2.7 is 112.94dBuV/m (Peak), so the maximum field strength in restrict band is  $112.94 - 53.57 = 59.37$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next third page shows 55.34dBc between carrier maximum power and local maximum emission in restrict band (2.48830GHz). The emission of carrier strength list in the test result of channel 6 & channel 11 at the item 4.2.7 is 108.02dBuV/m (Average), so the maximum field strength in restrict band is  $108.02 - 55.34 = 52.68$ dBuV/m which is under 54dBuV/m limit.







## DUAL TX: 802.11b DSSS & 802.11g OFDM MODULATION (TEST MODE B)

### NOTE 1:

The band edge emission plot on the next page shows 52.33dBc between carrier maximum power and local maximum emission in restrict band (2.38639GHz). The emission of carrier strength list in the test result of channel 1 & channel 6 at the item 4.2.7 is 107.19dBuV/m (Peak), so the maximum field strength in restrict band is  $107.19 - 52.33 = 54.86$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot of on the next page shows 52.08dBc between carrier maximum power and local maximum emission in restrict band (2.38639GHz). The emission of carrier strength list in the test result of channel 1 & channel 6 at the item 4.2.7 is 102.64dBuV/m (Average), so the maximum field strength in restrict band is  $102.64 - 52.08 = 50.56$ dBuV/m which is under 54dBuV/m limit.

### NOTE 2:

The band edge emission plot on the next second page shows 52.02dBc between carrier maximum power and local maximum emission in restrict band (2.48390GHz). The emission of carrier strength list in the test result of channel 6 & channel 11 at the item 4.2.7 is 109.81dBuV/m (Peak), so the maximum field strength in restrict band is  $109.81 - 52.02 = 57.79$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next third page shows 54.45dBc between carrier maximum power and local maximum emission in restrict band (2.48350GHz). The emission of carrier strength list in the test result of channel 6 & channel 11 at the item 4.2.7 is 105.25dBuV/m (Average), so the maximum field strength in restrict band is  $105.25 - 54.45 = 50.80$ dBuV/m which is under 54dBuV/m limit.