



# FCC TEST REPORT (15.407)

**REPORT NO.:** RF961108H01

**MODEL NO.:** DWA-160

**RECEIVED:** Nov. 08, 2007

**TESTED:** Nov. 08, 2007 to Jan. 28, 2008

**ISSUED:** Jan. 31, 2008

**APPLICANT:** D-Link Co.

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**ISSUED BY:** Advance Data Technology Corporation

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No. 2177-01

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## 1. CERTIFICATION

**PRODUCT:** Xtreme N Dual Band USB Adapter  
**BRAND NAME:** D-Link  
**MODEL NO.:** DWA-160  
**TEST SAMPLE:** ENGINEERING SAMPLE  
**TESTED:** Nov. 08, 2007 to Jan. 28, 2008  
**APPLICANT:** D-Link Co.  
**STANDARDS:** FCC Part 15, Subpart E (Section 15.407),  
ANSI C63.4-2003

The above equipment (Model: DWA-160) 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** : Carol Liao , **DATE:** Jan 31, 2008  
( Carol Liao, Specialist )

**TECHNICAL ACCEPTANCE** : Hank Chung , **DATE:** Jan 31, 2008  
Responsible for RF ( Hank Chung, Deputy Manager )

**APPROVED BY** : May Chen , **DATE:** Jan 31, 2008  
( May Chen, Deputy Manager )

## 2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

For 802.11a

APPLIED STANDARD: FCC Part 15, Subpart E (Section 15.407)			
Standard Section	Test Type	Result	Remark
15.407(b)(5)	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -10.95dB at 0.150MHz
15.407(b/1/2/3)(b)(5)	Electric Field Strength Spurious Emissions, 30MHz ~ 40000MHz	PASS	Meet the requirement of limit. Minimum passing margin is -0.55dB at 5150.00MHz
15.407(a/1/2/3)	Peak Transmit Power	PASS	Meet the requirement of limit.
15.407(a)(6)	Peak Power Excursion	PASS	Meet the requirement of limit.
15.407(a/1/2/3)	Peak Power Spectral Density	PASS	Meet the requirement of limit.
15.407(g)	Frequency Stability	PASS	Meet the requirement of limit.

**NOTE:**

- The EUT was operating in 2.412 ~ 2.462GHz, 5.15~5.35GHz, 5.47~5.725GHz and 5.725~5.825GHz frequencies band. This report was recorded the RF parameters including 5.15~5.35GHz, 5.47~5.725GHz and 5.725~5.825GHz. For the 2.412 ~ 2.462GHz RF parameters was recorded in another test report.

## 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:

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

Measurement	Value
Conducted emissions	2.44 dB
Radiated emissions (30MHz-1GHz)	3.94 dB
Radiated emissions (1GHz -18GHz)	2.33 dB
Radiated emissions (18GHz -40GHz)	2.55 dB



### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	Xtreme N Dual Band USB Adapter
<b>MODEL NO.</b>	DWA-160
<b>FCC ID</b>	KA2WA160A1
<b>POWER SUPPLY</b>	DC 5V from host equipment
<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 Draft 802.11n (20MHz): 130 / 117 / 104 / 78 / 65 / 58.5 / 52 / 39 / 26 / 19.5 / 13 / 6.5Mbps Draft 802.11n (40MHz): 270 / 243 / 216 / 162 / 135 / 121.5 / 108 / 81 / 54 / 40.5 / 27 / 13.5Mbps
<b>FREQUENCY RANGE</b>	802.11b & 802.11g: 2412 ~ 2462MHz 802.11a: 5.18 ~ 5.32GHz, 5.50 ~ 5.70GHz and 5.745 ~ 5.825GHz
<b>NUMBER OF CHANNEL</b>	<b>For 15.247(2.4GHz)</b> 11 for 802.11b, 802.11g, draft 802.11n (20MHz) 7 for draft 802.11n (40MHz) <b>For 15.407(5GHz)</b> 23 for 802.11a, draft 802.11n (20MHz) 12 for draft 802.11n (40MHz)

<b>MAXIMUM OUTPUT POWER</b>	<b>For 15.247(2.4GHz)</b> 802.11b: 187.499mW 802.11g: 239.332mW draft 802.11n (20MHz): 273.569mW draft 802.11n (40MHz): 198.316mW <b>For 15.407(5GHz)</b> 802.11a: 41.783mW draft 802.11n (20MHz): 61.626mW draft 802.11n (40MHz): 49.106mW
<b>ANTENNA TYPE</b>	Please see note 1
<b>DATA CABLE</b>	NA
<b>INTERFACE</b>	USB
<b>ASSOCIATED DEVICES</b>	Cradle (with 1.5m cable, Unshielded)

**NOTE:**

1. There are two antennas provided to this EUT, please refer to the following table:

No.	Antenna Type	For 2.4GHz Gain (dBi)	For 5GHz Gain (dBi)	Antenna Connector
1	PCB Print	0.7	0.5	NA
2	PCB Print	0.7	0.5	NA

2. The EUT incorporates a MIMO function with 802.11a, 802.11b, 802.11g, draft 802.11n. Physically, the EUT provides two completed transmit and two completed receivers.
3. The EUT is 2 \* 2 spatial MIMO (2Tx & 2Rx) without beam forming function. The antenna configurations are two transmitter antennas and two receiver antennas, as there are 2 PCB Print antennas. Spatial multiplexing modes for simultaneous transmission using 2 antennas, and for simultaneous receiver using 2 antennas. 11bg and legacy 11a mode is limited to single transmitter mode only.
4. When the EUT operating in draft 802.11n, the software operation, which is defined by manufacturer, MCS (Modulation and Coding Schemes) from 0 to 15.
5. The EUT complies with draft 802.11n standards and backwards compatible with 802.11a, 802.11b, 802.11g products.
6. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.



### 3.2 DESCRIPTION OF TEST MODES

#### Operated in 5150MHz ~ 5350MHz bands:

Eight channels are provided for 802.11a and draft 802.11n (20MHz):

CHANNEL	FREQUENCY
1	5180 MHz
2	5200 MHz
3	5220 MHz
4	5240 MHz
5	5260 MHz
6	5280 MHz
7	5300 MHz
8	5320 MHz

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

CHANNEL	FREQUENCY
1	5190 MHz
2	5230 MHz
3	5270 MHz
4	5310 MHz

**Operated in 5470MHz ~ 5725MHz bands:**

Eleven channels are provided for 802.11a and draft 802.11n (20MHz):

CHANNEL	FREQUENCY
9	5500 MHz
10	5520 MHz
11	5540 MHz
12	5560 MHz
13	5580 MHz
14	5600 MHz
15	5620 MHz
16	5640 MHz
17	5660 MHz
18	5680 MHz
19	5700 MHz

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

CHANNEL	FREQUENCY
5	5510 MHz
6	5550 MHz
7	5590 MHz
8	5630 MHz
9	5670 MHz

**Operated in 5725 ~ 5825MHz band:**

Four channels are provided for 802.11a, draft 802.11n (20MHz):

CHANNEL	FREQUENCY
20	5745 MHz
21	5765 MHz
22	5785 MHz
23	5805 MHz

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

CHANNEL	FREQUENCY
10	5755 MHz
11	5775 MHz
12	5795 MHz

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

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	PLC	RE < 1G	RE ≥ 1G	APCM	
-	√	√	√	√	-

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

### ANTENNA COMBINATION MODE:

COMBINATION MODE	OPERATION MODE	CHAIN(0) (TX/RX)	CHAIN(1) (TX/RX)
A	802.11a, b, g	√	
B	DRAFT 802.11n(20MHz)	√	√
C	DRAFT 802.11n(40MHz)	√	√

Note:

- The above information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.
- Antenna 1 and Antenna 2 are PCB Print antennas.

### POWER LINE CONDUCTED EMISSION TEST:

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

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	TX COMBINATION
For 5 GHz Draft 802.11n (20MHz)	1 to 23	23	OFDM	BPSK	13	B

- The EUT was pre-tested in chamber as the following test modes:

TEST MODE	DESCRIPTION
Mode A	With Cradle
Mode B	Without Cradle

The worse case was found in Mode A. Its test data were recorded in this report individually.

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

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

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	TX COMBINATION
For 5 GHz Draft 802.11n (20MHz)	1 to 23	23	OFDM	BPSK	13	B

- The EUT was pre-tested in chamber as the following test modes:

TEST MODE	DESCRIPTION
Mode A	With Cradle
Mode B	Without Cradle

The worse case was found in Mode A. Its test data were recorded in this report individually.

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

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

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	TX COMBINATION
802.11a	1 to 23	1, 4, 5, 8, 9, 14, 19, 20, 22, 23	OFDM	BPSK	6	A
For 5 GHz Draft 802.11n (20MHz)	1 to 23	1, 4, 5, 8, 9, 14, 19, 20, 22, 23	OFDM	BPSK	13	B
For 5 GHz Draft 802.11n (40MHz)	1 to 12	1, 2, 3, 4, 5, 7, 9, 10, 12	OFDM	BPSK	27	C

- The EUT was pre-tested in chamber as the following test modes:

TEST MODE	DESCRIPTION
Mode A	With Cradle
Mode B	Without Cradle

The worse case was found in Mode A. Its test data were recorded in this report individually.

**BANDEDGE MEASUREMENT:**

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

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	TX COMBINATION
802.11a	1 to 23	1, 8, 9, 19, 20, 23	OFDM	BPSK	6	A
For 5 GHz Draft 802.11n (20MHz)	1 to 23	1, 8, 9, 19, 20, 23	OFDM	BPSK	13	B
For 5 GHz Draft 802.11n (40MHz)	1 to 12	1, 4, 5, 9, 10, 12	OFDM	BPSK	27	C

**ANTENNA PORT CONDUCTED MEASUREMENT:**

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

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	TX COMBINATION
802.11a	1 to 23	1, 4, 5, 8, 9, 14, 19, 20, 22, 23	OFDM	BPSK	6	A
For 5 GHz Draft 802.11n (20MHz)	1 to 23	1, 4, 5, 8, 9, 14, 19, 20, 22, 23	OFDM	BPSK	13	B
For 5 GHz Draft 802.11n (40MHz)	1 to 12	1, 2, 3, 4, 5, 7, 9, 10, 12	OFDM	BPSK	27	C



### **3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS**

The EUT is a Xtreme N Dual Band USB Adapter. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**FCC Part 15, Subpart E (15.407)**

**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

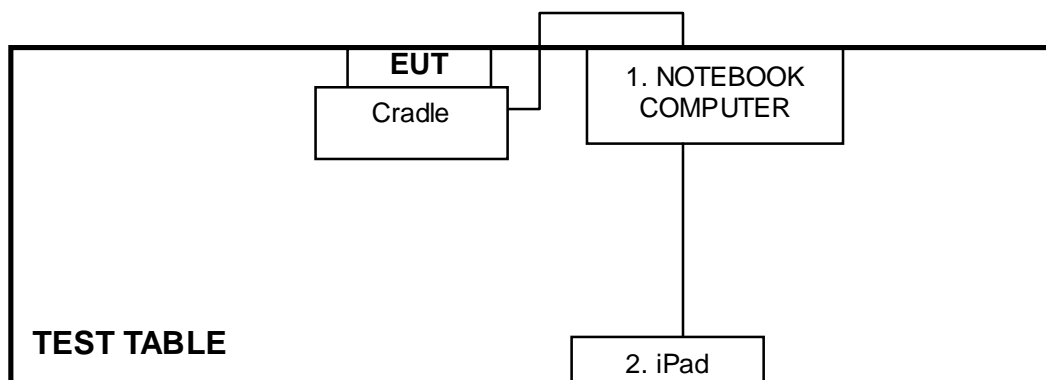
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK COMPUTER	DELL	PP19L	CN-OHC416-70166-5 CA-0448	PIW632500516610
2	iPod nano 2GB	Apple	A1199	6U6426MTVQS	FCC DoC

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

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

### 3.5 CONFIGURATION OF SYSTEM UNDER TEST



## 4. TEST TYPES AND RESULTS

### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

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

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

#### 4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver	ESCS 30	847124/029	Mar. 28, 2008
Line-Impedance Stabilization Network(for EUT)	ESH3-Z5	848773/004	Nov. 08, 2008
Line-Impedance Stabilization Network(for Peripheral)	ENV-216	100071	Nov. 26, 2008
RF Cable (JETBAO)	RG233/U	Cable_CB_01	Dec. 09, 2008
50 ohms Terminator	50	3	Nov. 15, 2008
Software	ADT_Cond_V7.3.2	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 ADT Shielded Room No. B.
  3. The VCCI Con B Registration No. is C-2193.





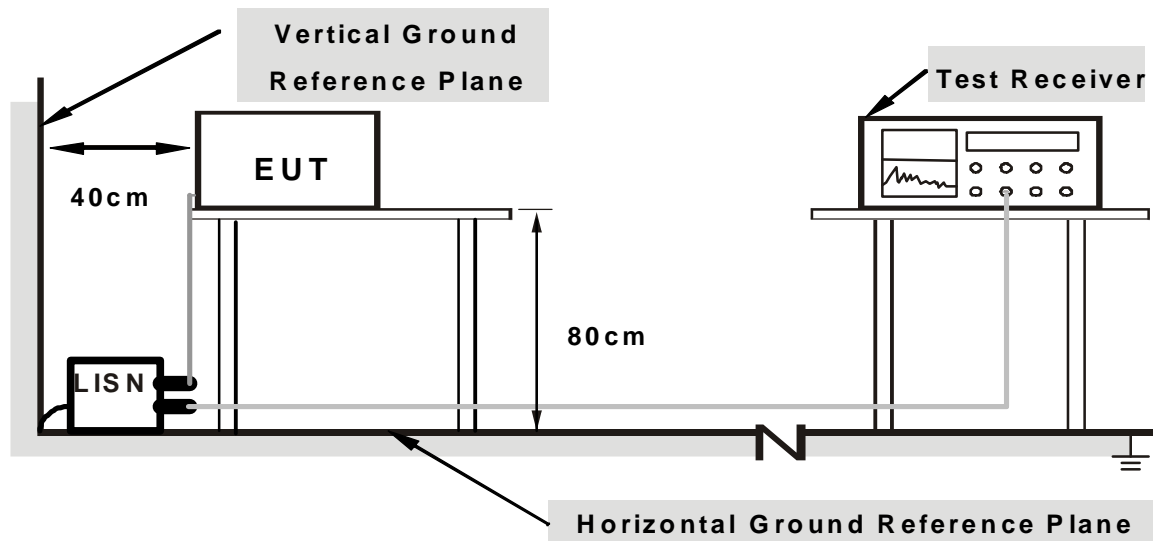
#### 4.1.3 TEST PROCEDURES

- 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
- b. provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- c. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- d. The frequency range from 150kHz to 30MHz was searched. Emission level 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 related item – Photographs of the Test Configuration.

#### 4.1.6 EUT OPERATING CONDITIONS

- 1 Connect the EUT with the support unit 1 (Notebook computer) which placed on a testing table.
- 2 The support unit 1 (Notebook computer) ran a test program “ART V80 b26” to enable EUT under transmission condition continuously.

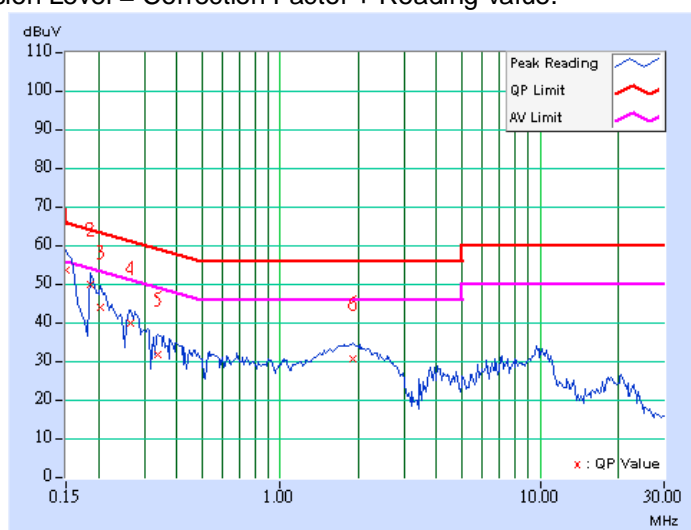
#### 4.1.7 TEST RESULTS

##### DRAFT 802.11n (20MHz) OFDM MODULATION:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 23	PHASE	Line (L)
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	13Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	19deg. C, 70%RH, 971hPa	TESTED BY	Wen Yu

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	0.150	0.14	53.36	-	53.50	-	66.00
2	0.185	0.16	49.72	-	49.88	-	64.25	54.25	-14.38	-
3	0.205	0.16	43.73	-	43.89	-	63.42	53.42	-19.53	-
4	0.267	0.16	39.66	-	39.82	-	61.20	51.20	-21.38	-
5	0.338	0.17	31.37	-	31.54	-	59.26	49.26	-27.73	-
6	1.896	0.39	30.30	-	30.69	-	56.00	46.00	-25.31	-

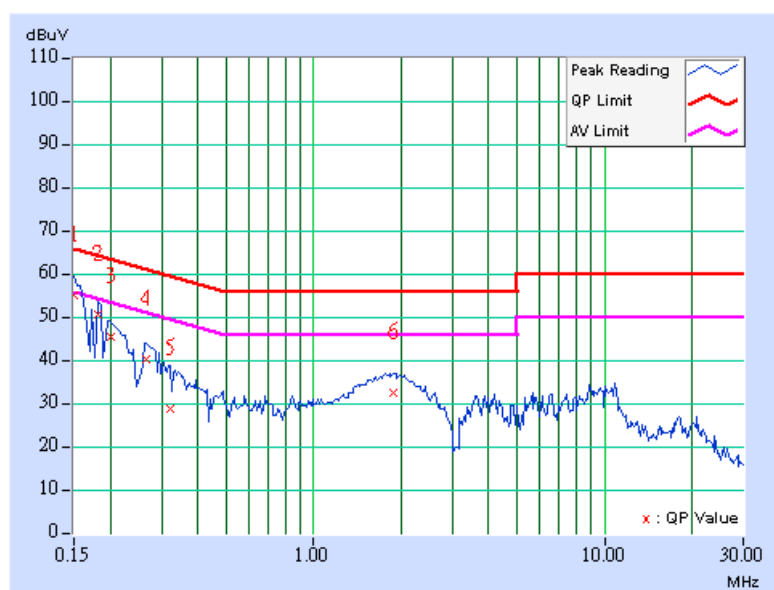
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 23	PHASE	Neutral (N)
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	13Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	19deg. C, 70%RH, 971hPa	TESTED BY	Wen Yu

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	0.150	0.07	54.98	-	55.05	-	66.00	56.00	-10.95
2	0.181	0.08	50.36	-	50.44	-	64.43	54.43	-13.99	-
3	0.201	0.08	45.39	-	45.47	-	63.58	53.58	-18.11	-
4	0.267	0.08	40.12	-	40.20	-	61.20	51.20	-21.00	-
5	0.322	0.08	28.58	-	28.66	-	59.66	49.66	-31.00	-
6	1.888	0.31	32.12	-	32.43	-	56.00	46.00	-23.57	-

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



## 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 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequencies (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBμV/m) *note 3
5150~5250	-27	68.3
5250~5350	-27	68.3
5470~5725	-27	68.3
5725~5825	-27 *note 1	68.3
	-17 *note 2	78.3

**NOTE:**

1. For frequencies 10MHz or greater above or below the band edge.
2. All emissions within the frequency range from the band edge to 10MHz above or below the band edge.
3. The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength

$$E = \frac{1000000 \sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts)}$$



#### 4.2.3 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
ADVANTEST Spectrum Analyzer	R3271A	85060311	July 15, 2008
HP Pre_Amplifier	8449B	3008A01922	Oct. 04, 2008
ROHDE & SCHWARZ Test Receiver	ESCS30	100375	Mar. 26, 2008
CHASE Broadband Antenna	VULB 9168	138	July 26, 2008
Schwarzbeck Horn_Antenna	BBHA9120	D124	Dec. 16, 2008
Schwarzbeck Horn_Antenna	BBHA 9170	BBHA9170153	Jan. 25, 2009
TRILOG Broad Band Antenna	VULB 9168	138	July 26, 2008
RF Switches (ARNITSU)	CS-201	1565157	Aug. 13, 2008
RF CABLE (Chaintek)	SF102	22054-2	Dec. 06, 2008
RF Cable(RICHTEC)	9913-30M N-N Cable	STCCAB-30M-1 GHz	Aug. 13, 2008
Software	ADT_Radiated_V 7.6.15.8	NA	NA
CHANCE MOST Antenna Tower	AT-100	0203	NA
CHANCE MOST Turn Table	TT-100	0203	NA

- Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.  
 2. The horn antenna, HP preamplifier (model: 8449B) and Spectrum Analyzer (model: R3271A) are used only for the measurement of emission frequency above 1GHz if tested.  
 3. The test was performed in ADT Open Site No. C.  
 4. The FCC Site Registration No. is 656396.  
 5. The VCCI Site Registration No. is R-1626.  
 6. The CANADA Site Registration No. is IC 4824A-3.

#### 4.2.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

**NOTE:**

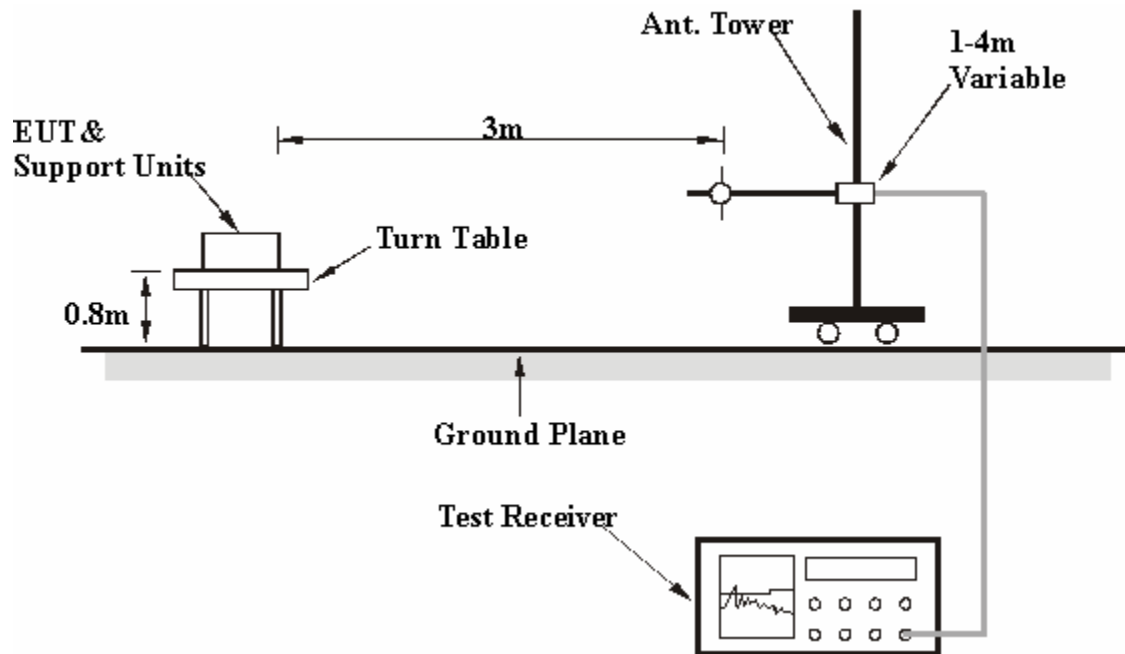
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK)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

#### 4.2.5 DEVIATION FROM TEST STANDARD

No deviation



#### 4.2.6 TEST SETUP



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

#### 4.2.7 EUT OPERATING CONDITION

Same as 4.1.6



## Below 1GHz Test Data

### 4.2.8 TEST RESULTS

#### 802.11n (20MHz) OFDM MODULATION:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 23	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	22deg. C, 68%RH, 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	133.32	34.21 QP	43.50	-9.29	1.80 H	20	21.59	12.62
2	199.98	32.17 QP	43.50	-11.33	1.40 H	211	20.97	11.20
3	300.01	36.14 QP	46.00	-9.86	1.37 H	25	19.58	16.56
4	399.98	38.74 QP	46.00	-7.26	1.00 H	285	19.98	18.76
5	700.01	32.16 QP	46.00	-13.84	1.28 H	211	6.99	25.17
6	800.02	36.54 QP	46.00	-9.46	1.02 H	239	9.60	26.94
7	933.33	38.00 QP	46.00	-8.00	1.44 H	360	8.80	29.20

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	125.01	25.41 QP	43.50	-18.09	1.00 V	239	12.18	13.23
2	249.99	41.28 QP	46.00	-4.72	1.00 V	317	28.45	12.83
3	400.01	31.23 QP	46.00	-14.77	1.28 V	39	13.18	18.05
4	499.99	32.18 QP	46.00	-13.82	1.28 V	88	11.13	21.05
5	700.01	31.28 QP	46.00	-14.72	1.90 V	96	6.76	24.52
6	800.01	35.12 QP	46.00	-10.88	1.44 V	2	7.07	28.05
7	933.23	41.22 QP	46.00	-4.78	2.21 V	285	11.70	29.52

- 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.

## Above 1GHz Test Data

### 4.2.9 TEST RESULTS

#### 802.11a OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5150.00	68.39 PK	74.00	-5.61	1.20 H	325	32.15	36.24
2	#5150.00	48.16 AV	54.00	-5.84	1.20 H	325	11.92	36.24
3	*5180.00	110.30 PK			1.20 H	352	74.02	36.28
4	*5180.00	98.90 AV			1.20 H	352	62.62	36.28
5	6906.00	58.00 PK	88.30	-30.30	1.20 H	218	16.88	41.12
6	6906.00	53.40 AV	68.30	-14.90	1.20 H	218	12.28	41.12
7	10360.00	57.20 PK	88.30	-31.10	1.30 H	36	11.30	45.90
8	10360.00	43.00 AV	68.30	-25.30	1.30 H	36	-2.90	45.90
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	#5150.00	71.18 PK	74.00	-2.82	1.05 V	266	34.94	36.24
2	#5150.00	50.30 AV	54.00	-3.70	1.05 V	266	14.06	36.24
3	*5180.00	113.30 PK			1.08 V	266	77.02	36.28
4	*5180.00	102.60 AV			1.08 V	266	66.32	36.28
5	6906.00	60.60 PK	88.30	-27.70	1.22 V	15	19.48	41.12
6	6906.00	49.60 AV	68.30	-18.70	1.22 V	15	8.48	41.12
7	10360.00	57.40 PK	88.30	-30.90	1.42 V	7	11.50	45.90
8	10360.00	43.20 AV	68.30	-25.10	1.42 V	7	-2.70	45.90

- 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.
  6. “ # ”: The radiated frequency falling in the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	110.20 PK			1.22 H	342	73.85	36.35
2	*5240.00	98.00 AV			1.22 H	342	61.65	36.35
3	6986.60	56.00 PK	88.30	-32.30	1.25 H	340	14.67	41.33
4	6986.60	48.40 AV	68.30	-19.90	1.25 H	340	7.07	41.33
5	10480.00	57.40 PK	88.30	-30.90	1.36 H	32	11.29	46.11
6	10480.00	44.40 AV	68.30	-23.90	1.36 H	32	-1.71	46.11
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	111.30 PK			1.00 V	253	74.95	36.35
2	*5240.00	100.60 AV			1.00 V	253	64.25	36.35
3	6986.60	54.50 PK	88.30	-33.80	1.26 V	11	13.17	41.33
4	6986.60	46.90 AV	68.30	-21.40	1.26 V	11	5.57	41.33
5	10480.00	58.80 PK	88.30	-29.50	1.50 V	17	12.69	46.11
6	10480.00	44.80 AV	68.30	-23.50	1.50 V	17	-1.31	46.11

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 5	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	109.70 PK			1.20 H	340	73.33	36.37
2	*5260.00	98.30 AV			1.20 H	340	61.93	36.37
3	7013.30	56.40 PK	88.30	-31.90	1.20 H	325	14.99	41.41
4	7013.30	48.60 AV	68.30	-19.70	1.20 H	325	7.19	41.41
5	10520.00	57.20 PK	88.30	-31.10	1.48 H	44	11.03	46.17
6	10520.00	44.40 AV	68.30	-23.90	1.48 H	44	-1.77	46.17
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	*5260.00	109.70 PK			1.12 V	10	73.33	36.37
2	*5260.00	99.40 AV			1.12 V	10	63.03	36.37
3	7013.30	55.60 PK	88.30	-32.70	1.36 V	6	14.19	41.41
4	7013.30	48.20 AV	68.30	-20.10	1.36 V	6	6.79	41.41
5	10520.00	58.60 PK	88.30	-29.70	1.50 V	18	12.43	46.17
6	10520.00	49.60 AV	68.30	-18.70	1.50 V	18	3.43	46.17

- 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.
  6. “ # ”: The radiated frequency falling in the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 8	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	109.40 PK			1.05 H	348	72.96	36.44
2	*5320.00	98.00 AV			1.05 H	348	61.56	36.44
3	#5350.00	61.24 PK	74.00	-12.76	1.05 H	346	24.76	36.48
4	#5350.00	45.17 AV	54.00	-8.83	1.05 H	346	8.69	36.48
5	7093.00	56.60 PK	88.30	-31.70	1.22 H	348	14.89	41.71
6	7093.00	48.00 AV	68.30	-20.30	1.22 H	348	6.29	41.71
7	#10640.00	58.00 PK	74.00	-16.00	1.40 H	36	11.71	46.29
8	#10640.00	44.60 AV	54.00	-9.40	1.40 H	36	-1.69	46.29
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	*5320.00	112.20 PK			1.04 V	276	75.76	36.44
2	*5320.00	101.80 AV			1.04 V	276	65.36	36.44
3	#5350.00	63.30 PK	74.00	-10.70	1.04 V	276	26.82	36.48
4	#5350.00	46.78 AV	54.00	-7.22	1.04 V	276	10.30	36.48
5	7093.00	55.00 PK	88.30	-33.30	1.10 V	35	13.29	41.71
6	7093.00	47.90 AV	68.30	-20.40	1.10 V	35	6.19	41.71
7	#10640.00	60.20 PK	74.00	-13.80	1.42 V	340	13.91	46.29
8	#10640.00	46.10 AV	54.00	-7.90	1.42 V	340	-0.19	46.29

- 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.
  6. “ # ”: The radiated frequency falling in the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 9	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5460.00	65.65 PK	74.00	-8.35	1.27 H	344	29.04	36.61
2	#5460.00	46.58 AV	54.00	-7.42	1.27 H	344	9.97	36.61
3	5470.00	71.50 PK	88.30	-16.80	1.24 H	344	34.88	36.62
4	5470.00	51.10 AV	68.30	-17.20	1.24 H	344	14.48	36.62
5	*5500.00	112.50 PK			1.24 H	344	75.84	36.66
6	*5500.00	100.90 AV			1.24 H	344	64.24	36.66
7	#7333.30	56.40 PK	74.00	-17.60	2.00 H	346	13.80	42.60
8	#7333.30	47.90 AV	54.00	-6.10	2.00 H	346	5.30	42.60
9	#11000.00	57.80 PK	74.00	-16.20	1.44 H	44	11.15	46.65
10	#11000.00	44.50 AV	54.00	-9.50	1.44 H	44	-2.15	46.65
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5460.00	66.43 PK	74.00	-7.57	1.05 V	348	29.82	36.61
2	#5460.00	46.51 AV	54.00	-7.49	1.05 V	348	9.90	36.61
3	5470.00	72.20 PK	88.30	-16.10	1.02 V	348	35.58	36.62
4	5470.00	51.90 AV	68.30	-16.40	1.02 V	348	15.28	36.62
5	*5500.00	112.60 PK			1.02 V	348	75.94	36.66
6	*5500.00	101.30 AV			1.02 V	348	64.64	36.66
7	#7333.30	54.60 PK	74.00	-19.40	1.16 V	164	12.00	42.60
8	#7333.30	46.70 AV	54.00	-7.30	1.16 V	164	4.10	42.60
9	#11000.00	61.90 PK	74.00	-12.10	1.17 V	37	15.25	46.65
10	#11000.00	48.00 AV	54.00	-6.00	1.17 V	37	1.35	46.65

- 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.
  6. “ # ”: The radiated frequency falling in the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 14	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5600.00	109.80 PK			1.14 H	330	83.80	26.00
2	*5600.00	99.00 AV			1.14 H	330	73.00	26.00
3	#7466.60	57.30 PK	74.00	-16.70	1.18 H	210	30.19	27.11
4	#7466.60	50.10 AV	54.00	-3.90	1.18 H	210	22.99	27.11
5	#11200.00	58.20 PK	74.00	-15.80	1.30 H	42	30.12	28.08
6	#11200.00	44.00 AV	54.00	-10.00	1.30 H	42	15.92	28.08
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	*5600.00	110.70 PK			1.06 V	27	84.70	26.00
2	*5600.00	100.10 AV			1.06 V	27	74.10	26.00
3	#7466.60	55.50 PK	74.00	-18.50	1.02 V	5	28.39	27.11
4	#7466.60	46.00 AV	54.00	-8.00	1.02 V	5	18.89	27.11
5	#11200.00	58.40 PK	74.00	-15.60	1.50 V	2	30.32	28.08
6	#11200.00	44.20 AV	54.00	-9.80	1.50 V	2	16.12	28.08

- 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.
  6. “ # ”: The radiated frequency falling in the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 19	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	110.80 PK			1.10 H	333	84.75	26.05
2	*5700.00	99.60 AV			1.10 H	333	73.55	26.05
3	5725.00	68.00 PK	88.30	-20.30	1.10 H	333	41.94	26.06
4	5725.00	49.70 AV	68.30	-18.60	1.10 H	333	23.64	26.06
5	#7600.00	58.40 PK	74.00	-15.60	1.24 H	160	31.25	27.15
6	#7600.00	52.10 AV	54.00	-1.90	1.24 H	160	24.95	27.15
7	#11400.00	58.60 PK	74.00	-15.40	1.33 H	35	30.49	28.11
8	#11400.00	45.20 AV	54.00	-8.80	1.33 H	35	17.09	28.11
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	113.00 PK			1.07 V	284	86.95	26.05
2	*5700.00	101.70 AV			1.07 V	284	75.65	26.05
3	5725.00	67.50 PK	88.30	-20.80	1.07 V	284	41.44	26.06
4	5725.00	49.40 AV	68.30	-18.90	1.07 V	284	23.34	26.06
5	#7600.00	54.20 PK	74.00	-19.80	1.03 V	10	27.05	27.15
6	#7600.00	45.30 AV	54.00	-8.70	1.03 V	10	18.15	27.15
7	#11400.00	59.80 PK	74.00	-14.20	1.24 V	20	31.69	28.11
8	#11400.00	46.00 AV	54.00	-8.00	1.24 V	20	17.89	28.11

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 20	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5715.00	62.80 PK	88.30	-25.50	1.16 H	169	36.75	26.05
2	5715.00	44.60 AV	68.30	-23.70	1.16 H	169	18.55	26.05
3	5725.00	71.00 PK	98.30	-27.30	1.16 H	169	44.94	26.06
4	5725.00	50.50 AV	78.30	-27.80	1.16 H	169	24.44	26.06
5	*5745.00	108.90 PK			1.16 H	169	82.83	26.07
6	*5745.00	97.40 AV			1.16 H	169	71.33	26.07
7	#7660.00	58.00 PK	74.00	-16.00	1.75 H	174	30.83	27.17
8	#7660.00	50.20 AV	54.00	-3.80	1.75 H	174	23.03	27.17
9	#11490.00	59.20 PK	74.00	-14.80	1.38 H	30	31.07	28.13
10	#11490.00	46.00 AV	54.00	-8.00	1.38 H	30	17.87	28.13
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	5715.00	73.50 PK	88.30	-14.80	1.30 V	272	47.45	26.05
2	5715.00	46.21 AV	68.30	-22.09	1.30 V	272	20.16	26.05
3	5725.00	65.10 PK	98.30	-33.20	1.30 V	272	39.04	26.06
4	5725.00	53.87 AV	78.30	-24.43	1.30 V	272	27.81	26.06
5	*5745.00	111.20 PK			1.30 V	272	85.13	26.07
6	*5745.00	100.50 AV			1.30 V	272	74.43	26.07
7	#7660.00	53.90 PK	74.00	-20.10	1.04 V	10	26.73	27.17
8	#7660.00	46.60 AV	54.00	-7.40	1.04 V	10	19.43	27.17
9	#11200.00	58.40 PK	74.00	-15.60	1.50 V	2	30.32	28.08
10	#11200.00	44.20 AV	54.00	-9.80	1.50 V	2	16.12	28.08

- 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.
  6. “ # ”: The radiated frequency falling in the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 22	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	109.80 PK			1.15 H	336	83.71	26.09
2	*5785.00	98.60 AV			1.15 H	336	72.51	26.09
3	#7713.30	58.40 PK	74.00	-15.60	1.32 H	175	31.22	27.18
4	#7713.30	50.30 AV	54.00	-3.70	1.32 H	175	23.12	27.18
5	#11570.00	58.20 PK	74.00	-15.80	1.35 H	36	30.06	28.14
6	#11570.00	44.80 AV	54.00	-9.20	1.35 H	36	16.66	28.14
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	*5785.00	110.70 PK			1.02 V	20	84.61	26.09
2	*5785.00	100.21 AV			1.02 V	20	74.12	26.09
3	#7713.30	56.20 PK	74.00	-17.80	1.00 V	328	29.02	27.18
4	#7713.30	45.80 AV	54.00	-8.20	1.00 V	328	18.62	27.18
5	#11570.00	58.50 PK	74.00	-15.50	1.40 V	1	30.36	28.14
6	#11570.00	45.20 AV	54.00	-8.80	1.40 V	1	17.06	28.14

- 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.
  6. “ # ”: The radiated frequency falling in the restricted band.



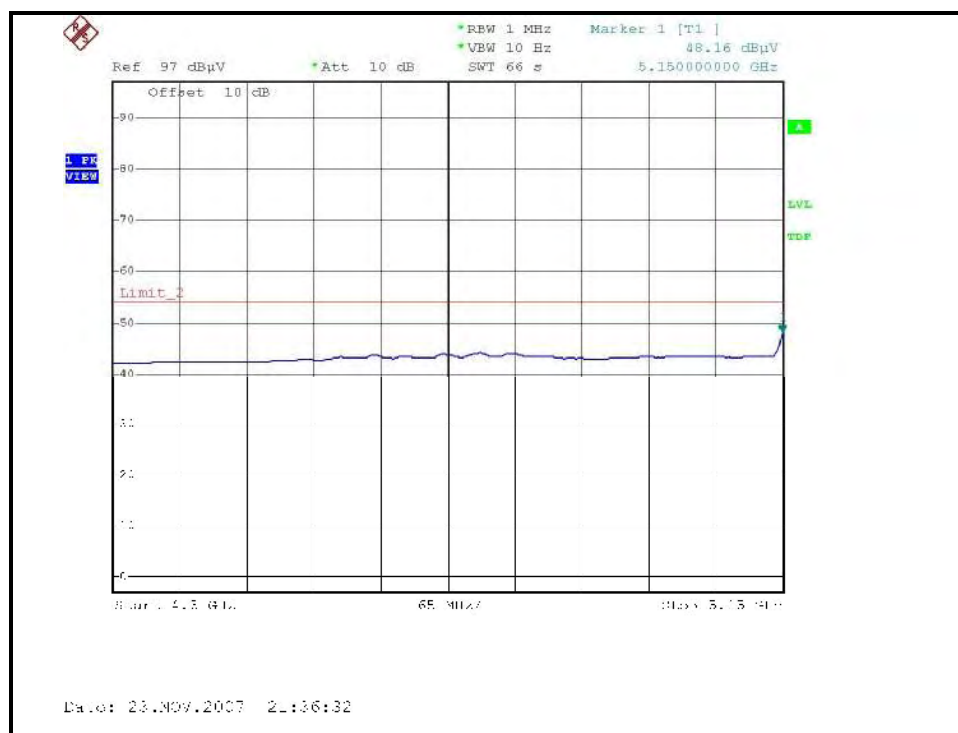
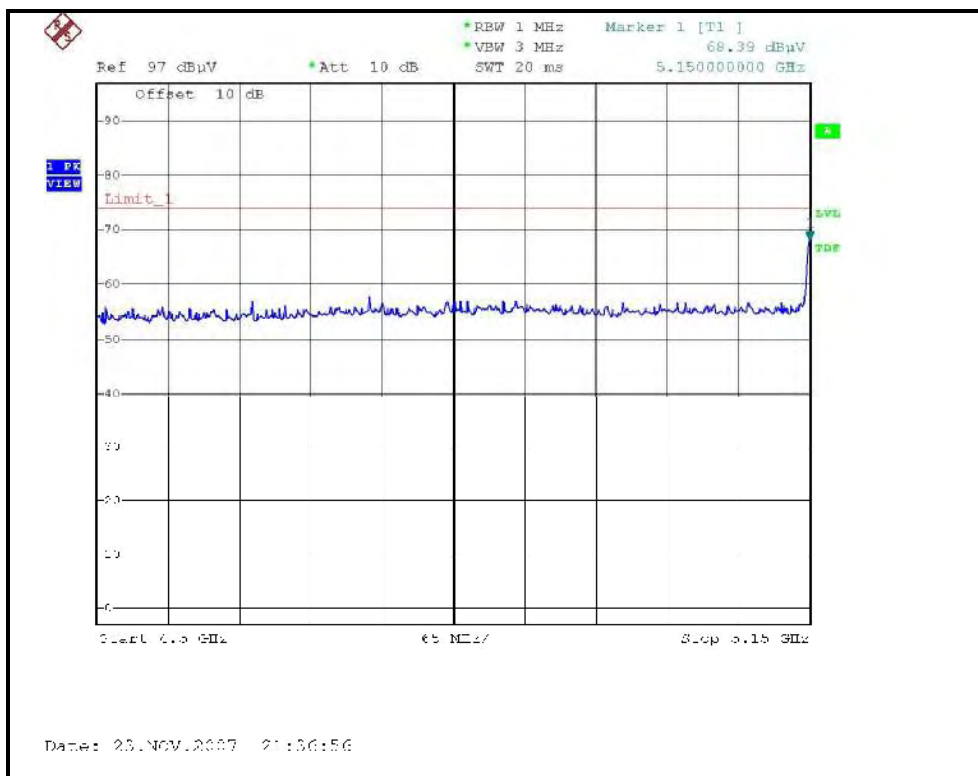
EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 23	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5805.00	108.40 PK			1.07 H	152	82.31	26.09
2	*5805.00	96.80 AV			1.07 H	152	70.71	26.09
3	5825.00	67.60 PK	98.30	-30.70	1.07 H	152	41.50	26.10
4	5825.00	48.00 AV	78.30	-30.30	1.07 H	152	21.90	26.10
5	5835.00	60.60 PK	88.30	-27.70	1.07 H	152	34.49	26.11
6	5835.00	44.10 AV	68.30	-24.20	1.07 H	152	17.99	26.11
7	#7740.00	58.60 PK	74.00	-15.40	1.28 H	158	31.41	27.19
8	#7740.00	50.10 AV	54.00	-3.90	1.28 H	158	22.91	27.19
9	#11610.00	58.80 PK	74.00	-15.20	1.34 H	14	30.66	28.14
10	#11610.00	44.80 AV	54.00	-9.20	1.34 H	14	16.66	28.14
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	*5805.00	110.40 PK			1.03 V	153	84.31	26.09
2	*5805.00	99.10 AV			1.03 V	153	73.01	26.09
3	5825.00	69.50 PK	98.30	-28.80	1.03 V	153	43.40	26.10
4	5825.00	50.72 AV	78.30	-27.58	1.03 V	153	24.62	26.10
5	5835.00	60.63 PK	88.30	-27.67	1.03 V	153	34.52	26.11
6	5835.00	44.48 AV	68.30	-23.82	1.03 V	153	18.37	26.11
7	#7740.00	54.50 PK	74.00	-19.50	1.00 V	274	27.31	27.19
8	#7740.00	44.30 AV	54.00	-9.70	1.00 V	274	17.11	27.19
9	#11610.00	60.50 PK	74.00	-13.50	1.20 V	34	32.36	28.14
10	#11610.00	46.60 AV	54.00	-7.40	1.20 V	34	18.46	28.14

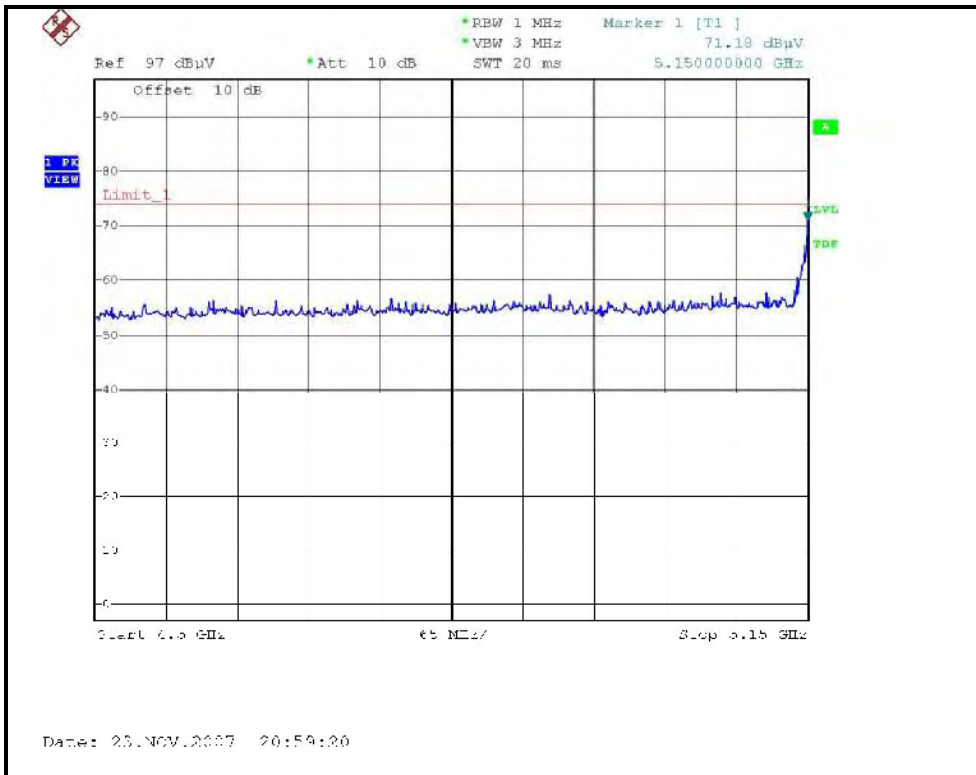
- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
  2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. “ \* “: Fundamental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



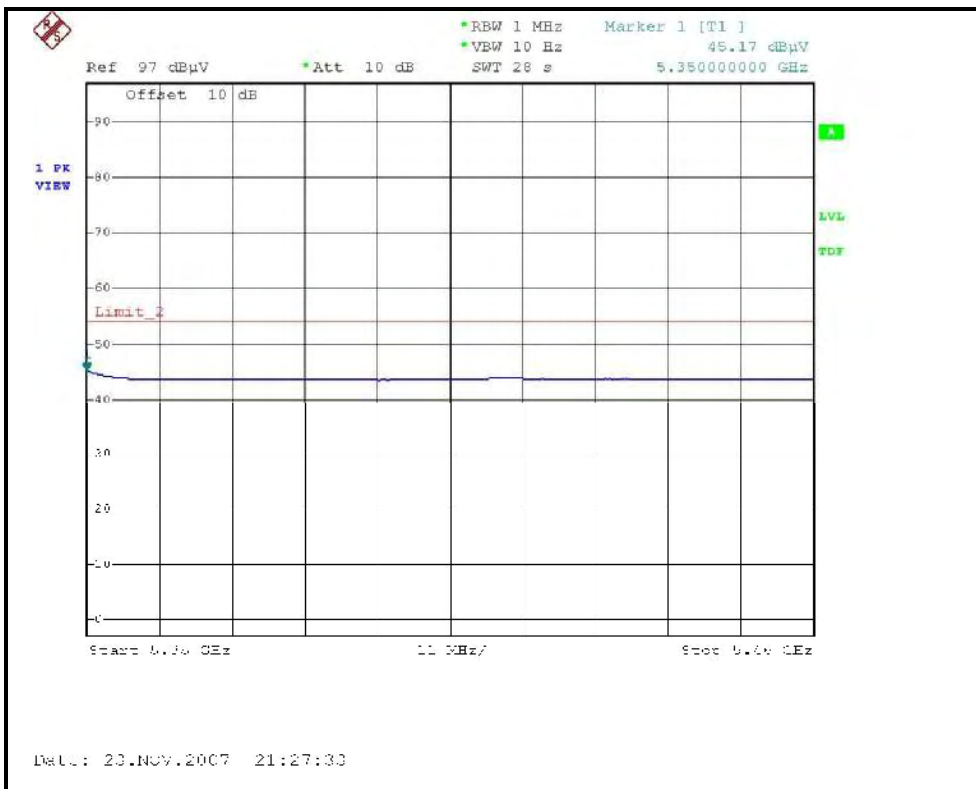
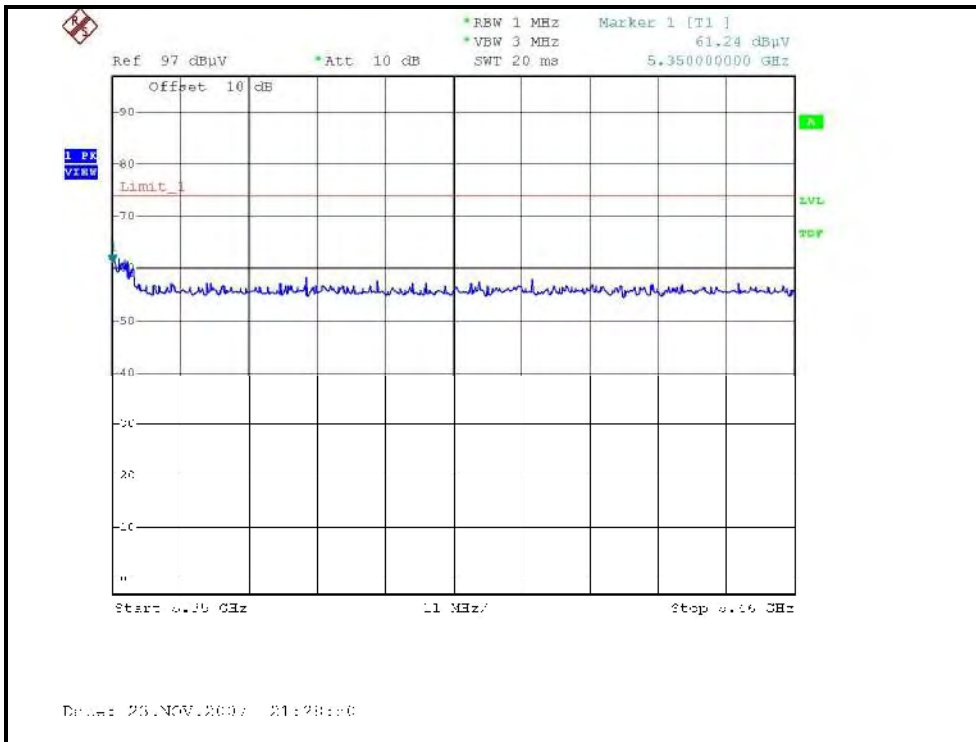
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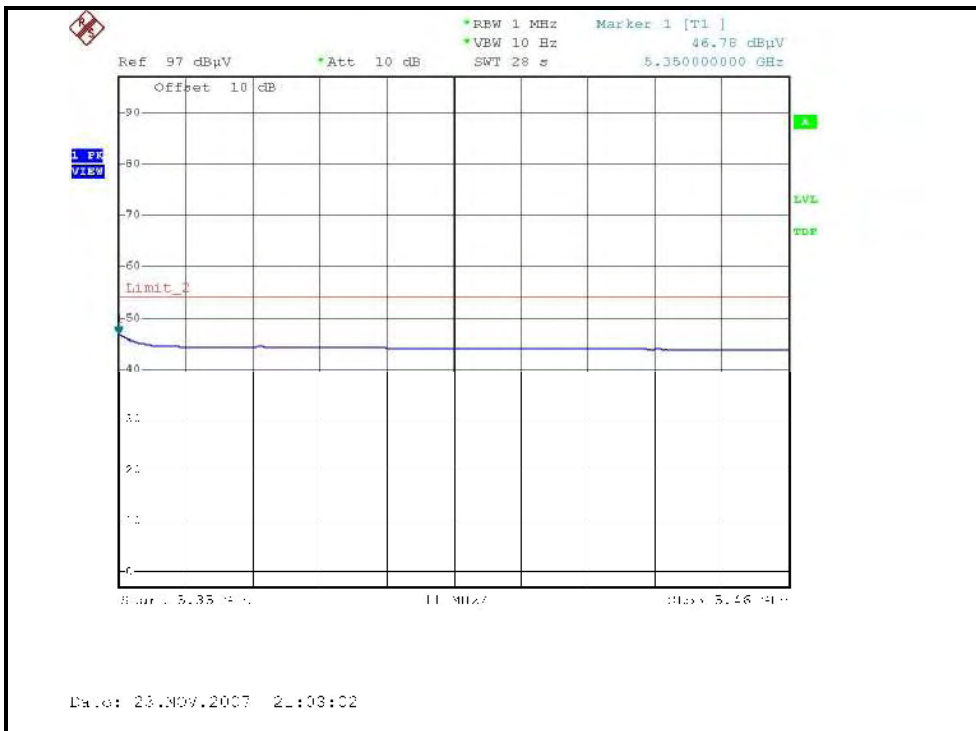
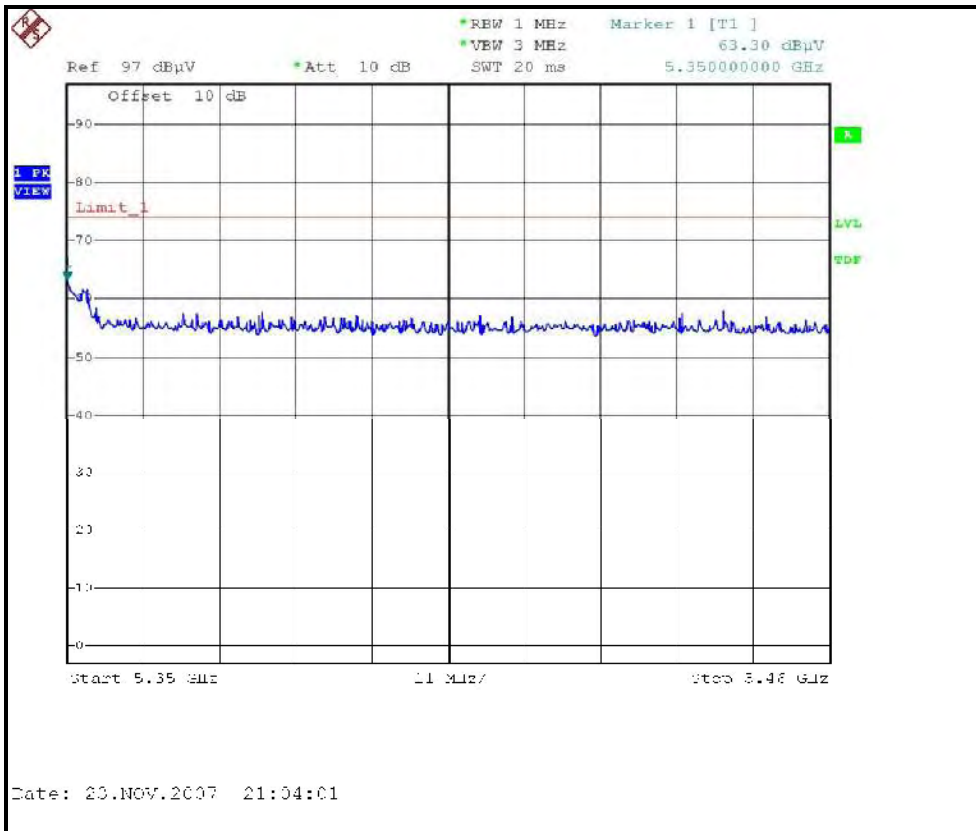
RESTRICTED BANDEDGE (802.11a MODE, CH1, VERTICAL)



RESTRICTED BANDEDGE (802.11a MODE, CH8, HORIZONTAL)

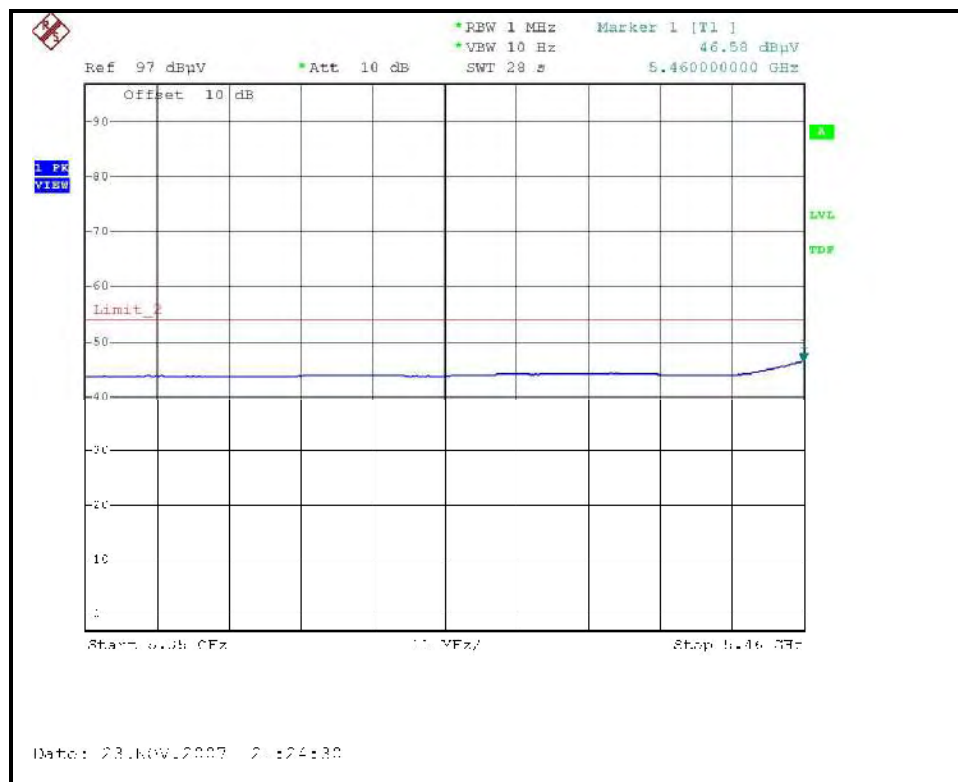
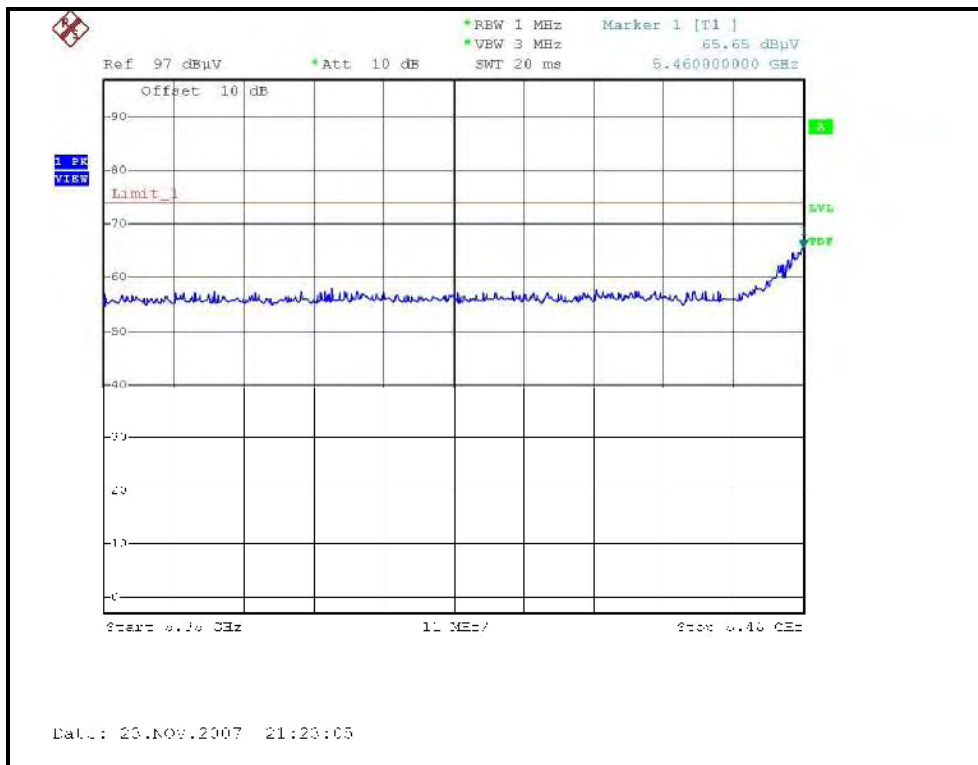


RESTRICTED BANDEDGE (802.11a MODE, CH8, VERTICAL)

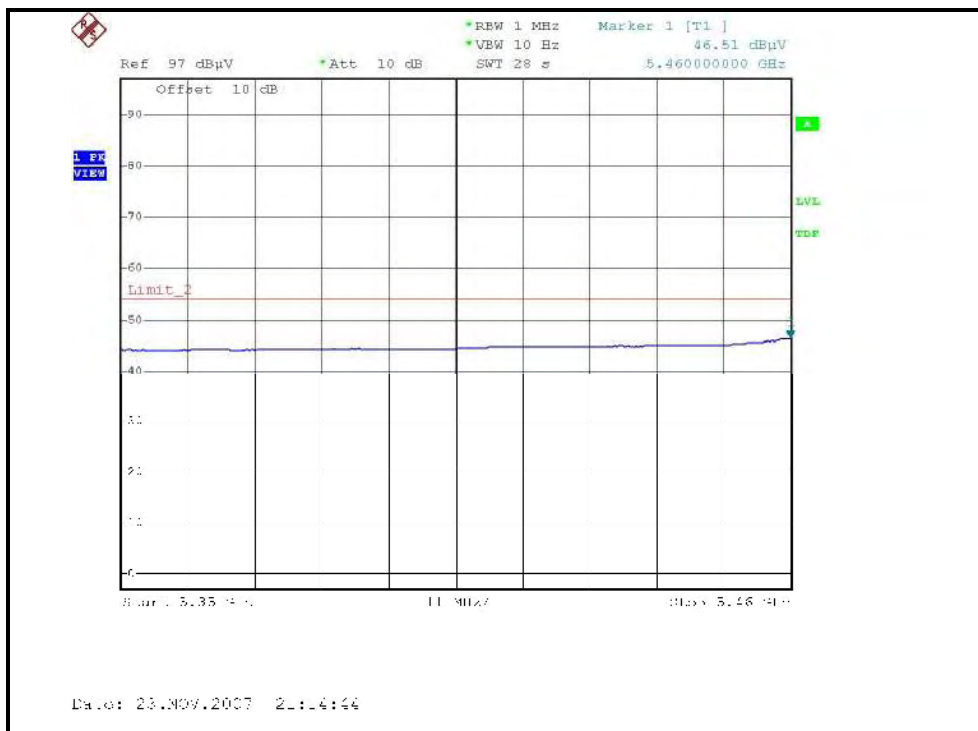
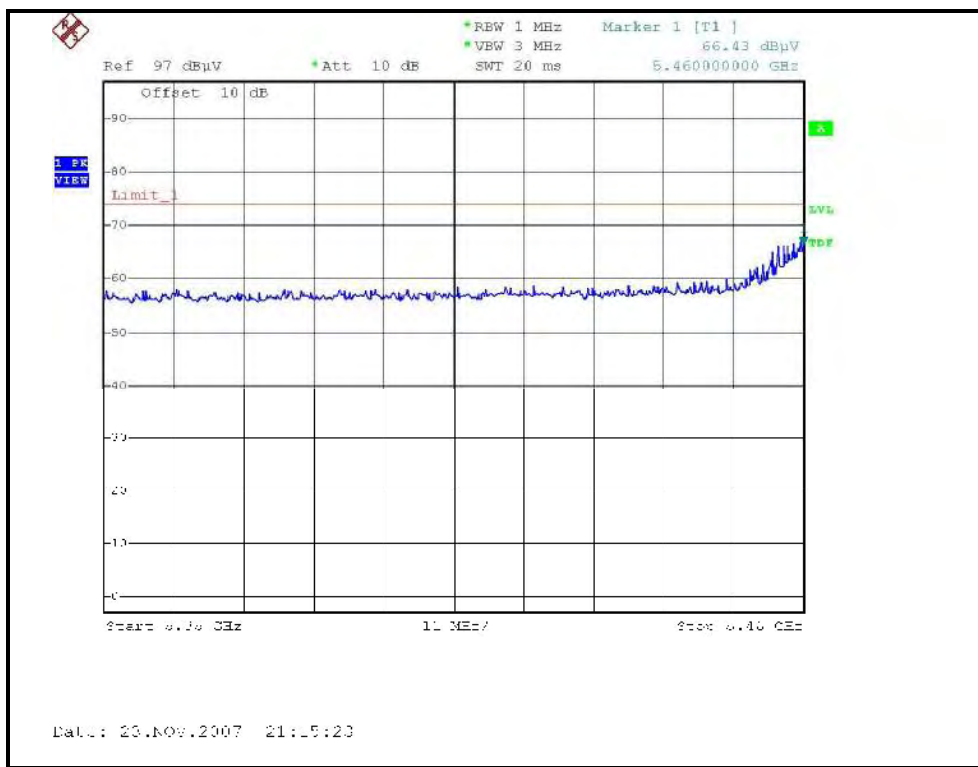




RESTRICTED BANDEDGE (802.11a MODE, CH9, HORIZONTAL)



RESTRICTED BANDEDGE (802.11a MODE, CH9, VERTICAL)





**DRAFT 802.11n (20MHz) OFDM MODULATION**

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5150.00	67.25 PK	74.00	-6.75	1.14 H	200	31.01	36.24
2	#5150.00	47.57 AV	54.00	-6.43	1.14 H	200	11.33	36.24
3	*5180.00	113.80 PK			1.14 H	200	77.52	36.28
4	*5180.00	100.80 AV			1.14 H	200	64.52	36.28
5	6906.60	57.20 PK	88.30	-31.10	1.06 H	126	16.08	41.12
6	6906.60	50.40 AV	68.30	-17.90	1.06 H	126	9.28	41.12
7	10360.00	62.20 PK	88.30	-26.10	1.28 H	44	16.30	45.90
8	10360.00	45.60 AV	68.30	-22.70	1.28 H	44	-0.30	45.90
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	#5150.00	68.69 PK	74.00	-5.31	1.30 V	290	32.45	36.24
2	#5150.00	49.91 AV	54.00	-4.09	1.30 V	290	13.67	36.24
3	*5180.00	116.20 PK			1.30 V	290	79.92	36.28
4	*5180.00	102.70 AV			1.30 V	290	66.42	36.28
5	6906.60	53.50 PK	88.30	-34.80	1.20 V	22	12.38	41.12
6	6906.60	46.80 AV	68.30	-21.50	1.20 V	22	5.68	41.12
7	10360.00	63.50 PK	88.30	-24.80	1.54 V	5	17.60	45.90
8	10360.00	48.20 AV	68.30	-20.10	1.54 V	5	2.30	45.90

- 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.
  6. “ # ”: The radiated frequency falling in the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	113.50 PK			1.15 H	202	77.15	36.35
2	*5240.00	100.60 AV			1.15 H	202	64.25	36.35
3	6986.60	56.80 PK	88.30	-31.50	1.22 H	106	15.47	41.33
4	6986.60	49.60 AV	68.30	-18.70	1.22 H	106	8.27	41.33
5	10480.00	63.40 PK	88.30	-24.90	1.18 H	52	17.29	46.11
6	10480.00	47.60 AV	68.30	-20.70	1.18 H	52	1.49	46.11
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	114.60 PK			1.34 V	290	78.25	36.35
2	*5240.00	102.20 AV			1.34 V	290	65.85	36.35
3	6986.60	53.90 PK	88.30	-34.40	1.00 V	13	12.57	41.33
4	6986.60	46.00 AV	68.30	-22.30	1.00 V	13	4.67	41.33
5	10480.00	64.60 PK	88.30	-23.70	1.30 V	28	18.49	46.11
6	10480.00	48.20 AV	68.30	-20.10	1.30 V	28	2.09	46.11

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 5	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	113.40 PK			1.18 H	205	77.03	36.37
2	*5260.00	100.20 AV			1.18 H	205	63.83	36.37
3	7013.30	57.00 PK	88.30	-31.30	1.02 H	100	15.59	41.41
4	7013.30	49.80 AV	68.30	-18.50	1.02 H	100	8.39	41.41
5	10520.00	64.00 PK	88.30	-24.30	1.22 H	38	17.83	46.17
6	10520.00	49.40 AV	68.30	-18.90	1.22 H	38	3.23	46.17
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	*5260.00	114.20 PK			1.22 V	257	77.83	36.37
2	*5260.00	101.80 AV			1.22 V	257	65.43	36.37
3	7013.30	54.90 PK	88.30	-33.40	1.00 V	8	13.49	41.41
4	7013.30	46.20 AV	68.30	-22.10	1.00 V	8	4.79	41.41
5	10520.00	65.60 PK	88.30	-22.70	1.49 V	355	19.43	46.17
6	10520.00	50.60 AV	68.30	-17.70	1.49 V	355	4.43	46.17

- 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.
  6. “ # ”: The radiated frequency falling in the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 8	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	113.60 PK			1.12 H	208	77.16	36.44
2	*5320.00	100.40 AV			1.12 H	208	63.96	36.44
3	#5350.00	67.32 PK	74.00	-6.68	1.26 H	165	30.84	36.48
4	#5350.00	47.15 AV	54.00	-6.85	1.26 H	165	10.67	36.48
5	7093.30	56.80 PK	88.30	-31.50	1.06 H	108	15.09	41.71
6	7093.30	49.80 AV	68.30	-18.50	1.06 H	108	8.09	41.71
7	#10640.00	67.20 PK	74.00	-6.80	1.20 H	45	20.91	46.29
8	#10640.00	51.40 AV	54.00	-2.60	1.20 H	45	5.11	46.29
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	*5320.00	115.70 PK			1.06 V	94	79.26	36.44
2	*5320.00	102.00 AV			1.06 V	94	65.56	36.44
3	#5350.00	63.23 PK	74.00	-10.77	1.06 V	94	26.75	36.48
4	#5350.00	48.97 AV	54.00	-5.03	1.06 V	94	12.49	36.48
5	7093.30	53.70 PK	88.30	-34.60	1.00 V	18	11.99	41.71
6	7093.30	46.70 AV	68.30	-21.60	1.00 V	18	4.99	41.71
7	#10640.00	68.70 PK	74.00	-5.30	1.28 V	340	22.41	46.29
8	#10640.00	52.40 AV	54.00	-1.60	1.28 V	340	6.11	46.29

- 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.
  6. “ # ”: The radiated frequency falling in the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 9	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5460.00	62.72 PK	74.00	-11.28	1.25 H	164	26.11	36.61
2	#5460.00	44.92 AV	54.00	-9.08	1.25 H	164	8.31	36.61
3	5470.00	71.80 PK	88.30	-16.50	1.25 H	164	35.18	36.62
4	5470.00	46.20 AV	68.30	-22.10	1.25 H	164	9.58	36.62
5	*5500.00	114.20 PK			1.25 H	164	77.54	36.66
6	*5500.00	100.70 AV			1.25 H	164	64.04	36.66
7	#7333.30	55.00 PK	74.00	-19.00	1.05 H	96	12.40	42.60
8	#7333.30	47.20 AV	54.00	-6.80	1.05 H	96	4.60	42.60
9	#11000.00	68.20 PK	74.00	-5.80	1.00 H	25	21.55	46.65
10	#11000.00	52.00 AV	54.00	-2.00	1.00 H	25	5.35	46.65
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5460.00	64.04 PK	74.00	-9.96	1.10 V	70	27.43	36.61
2	#5460.00	45.60 AV	54.00	-8.40	1.10 V	70	8.99	36.61
3	5470.00	73.50 PK	88.30	-14.80	1.10 V	70	36.88	36.62
4	5470.00	48.60 AV	68.30	-19.70	1.10 V	70	11.98	36.62
5	*5500.00	115.30 PK			1.10 V	70	78.64	36.66
6	*5500.00	102.00 AV			1.10 V	70	65.34	36.66
7	#7333.30	53.60 PK	74.00	-20.40	1.26 V	154	11.00	42.60
8	#7333.30	44.70 AV	54.00	-9.30	1.26 V	154	2.10	42.60
9	#11000.00	71.30 PK	74.00	-2.70	1.30 V	352	24.65	46.65
10	#11000.00	53.20 AV	54.00	-0.80	1.30 V	352	6.55	46.65

- 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.
  6. “ # “: The radiated frequency falling in the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 14	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5600.00	114.20 PK			1.22 H	172	77.30	36.90
2	*5600.00	100.60 AV			1.22 H	172	63.70	36.90
3	#7466.60	56.80 PK	74.00	-17.20	1.02 H	120	13.70	43.10
4	#7466.60	50.00 AV	54.00	-4.00	1.02 H	120	6.90	43.10
5	#11200.00	64.80 PK	74.00	-9.20	1.15 H	66	18.00	46.80
6	#11200.00	49.60 AV	54.00	-4.40	1.15 H	66	2.80	46.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5600.00	114.40 PK			1.15 V	280	77.50	36.90
2	*5600.00	101.90 AV			1.15 V	280	65.00	36.90
3	#7466.60	54.60 PK	74.00	-19.40	1.32 V	1	11.50	43.10
4	#7466.60	46.70 AV	54.00	-7.30	1.32 V	1	3.60	43.10
5	#11200.00	66.60 PK	74.00	-7.40	1.38 V	298	19.80	46.80
6	#11200.00	51.00 AV	54.00	-3.00	1.38 V	298	4.20	46.80

- 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.
  6. “ # ”: The radiated frequency falling in the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 19	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	114.30 PK			1.20 H	177	77.15	37.15
2	*5700.00	100.50 AV			1.20 H	177	63.35	37.15
3	5725.00	67.50 PK	88.30	-20.80	1.20 H	177	30.29	37.21
4	5725.00	47.10 AV	68.30	-21.20	1.20 H	177	9.89	37.21
5	#7600.00	56.00 PK	74.00	-18.00	1.10 H	128	12.55	43.45
6	#7600.00	49.20 AV	54.00	-4.80	1.10 H	128	5.75	43.45
7	#11400.00	65.20 PK	74.00	-8.80	1.12 H	45	18.25	46.95
8	#11400.00	49.40 AV	54.00	-4.60	1.12 H	45	2.45	46.95
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	*5700.00	115.30 PK			1.32 V	284	78.15	37.15
2	*5700.00	101.80 AV			1.32 V	284	64.65	37.15
3	5725.00	71.20 PK	88.30	-17.10	1.32 V	284	33.99	37.21
4	5725.00	49.50 AV	68.30	-18.80	1.32 V	284	12.29	37.21
5	#7600.00	53.70 PK	74.00	-20.30	1.03 V	260	10.25	43.45
6	#7600.00	45.30 AV	54.00	-8.70	1.03 V	260	1.85	43.45
7	#11400.00	66.80 PK	74.00	-7.20	1.24 V	6	19.85	46.95
8	#11400.00	51.00 AV	54.00	-3.00	1.24 V	6	4.05	46.95

- 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.
  6. “ # ”: The radiated frequency falling in the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 20	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5715.00	77.50 PK	88.30	-10.80	1.15 H	180	40.32	37.18
2	5715.00	60.40 AV	68.30	-7.90	1.15 H	180	23.22	37.18
3	5725.00	84.20 PK	98.30	-14.10	1.15 H	180	46.99	37.21
4	5725.00	65.20 AV	78.30	-13.10	1.15 H	180	27.99	37.21
5	*5745.00	112.30 PK			1.15 H	180	75.04	37.26
6	*5745.00	99.50 AV			1.15 H	180	62.24	37.26
7	#7660.00	54.20 PK	74.00	-19.80	1.05 H	114	10.61	43.59
8	#7660.00	45.40 AV	54.00	-8.60	1.05 H	114	1.81	43.59
9	#11490.00	64.60 PK	74.00	-9.40	1.08 H	62	17.58	47.02
10	#11490.00	48.40 AV	54.00	-5.60	1.08 H	62	1.38	47.02
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	5715.00	78.40 PK	88.30	-9.90	1.00 V	65	41.22	37.18
2	5715.00	61.40 AV	68.30	-6.90	1.00 V	65	24.22	37.18
3	5725.00	85.30 PK	98.30	-13.00	1.00 V	65	48.09	37.21
4	5725.00	66.40 AV	78.30	-11.90	1.00 V	65	29.19	37.21
5	*5745.00	115.50 PK			1.07 V	67	78.24	37.26
6	*5745.00	102.10 AV			1.07 V	67	64.84	37.26
7	#7660.00	52.60 PK	74.00	-21.40	1.00 V	54	9.01	43.59
8	#7660.00	42.30 AV	54.00	-11.70	1.00 V	54	-1.29	43.59
9	#11490.00	66.60 PK	74.00	-7.40	1.30 V	5	19.58	47.02
10	#11490.00	50.60 AV	54.00	-3.40	1.30 V	5	3.58	47.02

- 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.
  6. “ # ”: The radiated frequency falling in the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 22	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	113.20 PK			1.18 H	172	75.84	37.36
2	*5785.00	100.20 AV			1.18 H	172	62.84	37.36
3	#7713.30	56.20 PK	74.00	-17.80	1.22 H	130	12.49	43.71
4	#7713.30	47.40 AV	54.00	-6.60	1.22 H	130	3.69	43.71
5	#11570.00	67.20 PK	74.00	-6.80	1.08 H	55	20.25	46.95
6	#11570.00	51.60 AV	54.00	-2.40	1.08 H	55	4.65	46.95
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	*5785.00	114.20 PK			1.10 V	284	76.84	37.36
2	*5785.00	101.60 AV			1.10 V	284	64.24	37.36
3	#7713.30	55.80 PK	74.00	-18.20	1.50 V	260	12.09	43.71
4	#7713.30	45.50 AV	54.00	-8.50	1.50 V	260	1.79	43.71
5	#11570.00	69.00 PK	74.00	-5.00	1.40 V	1	22.05	46.95
6	#11570.00	53.10 AV	54.00	-0.90	1.40 V	1	6.15	46.95

- 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.
  6. “ # ”: The radiated frequency falling in the restricted band.

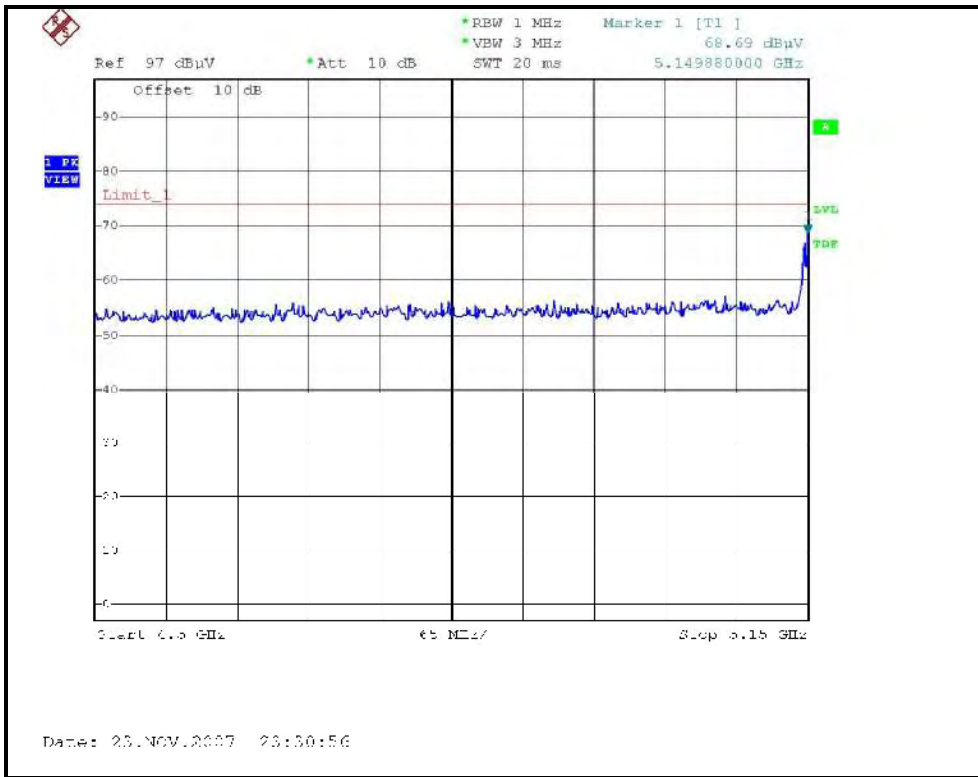
EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 23	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5805.00	115.30 PK			1.10 H	198	77.90	37.40
2	*5805.00	100.80 AV			1.10 H	198	63.40	37.40
3	5825.00	84.40 PK	98.30	-13.90	1.10 H	200	46.95	37.45
4	5825.00	65.80 AV	78.30	-12.50	1.10 H	200	28.35	37.45
5	5835.00	76.80 PK	88.30	-11.50	1.10 H	198	39.32	37.48
6	5835.00	60.20 AV	68.30	-8.10	1.10 H	198	22.72	37.48
7	#7740.00	56.80 PK	74.00	-17.20	1.15 H	102	13.03	43.77
8	#7740.00	48.00 AV	54.00	-6.00	1.15 H	102	4.23	43.77
9	#11610.00	65.60 PK	74.00	-8.40	1.05 H	38	18.69	46.91
10	#11610.00	48.20 AV	54.00	-5.80	1.05 H	38	1.29	46.91
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	*5805.00	118.20 PK			1.04 V	284	80.80	37.40
2	*5805.00	103.70 AV			1.04 V	284	66.30	37.40
3	5825.00	85.20 PK	98.30	-13.10	1.04 V	280	47.75	37.45
4	5825.00	67.20 AV	78.30	-11.10	1.04 V	280	29.75	37.45
5	5835.00	77.40 PK	88.30	-10.90	1.04 V	284	39.92	37.48
6	5835.00	60.80 AV	68.30	-7.50	1.04 V	284	23.32	37.48
7	#7740.00	54.60 PK	74.00	-19.40	1.20 V	240	10.83	43.77
8	#7740.00	45.60 AV	54.00	-8.40	1.20 V	240	1.83	43.77
9	#11610.00	71.80 PK	74.00	-2.20	1.40 V	4	24.89	46.91
10	#11610.00	50.20 AV	54.00	-3.80	1.40 V	4	3.29	46.91

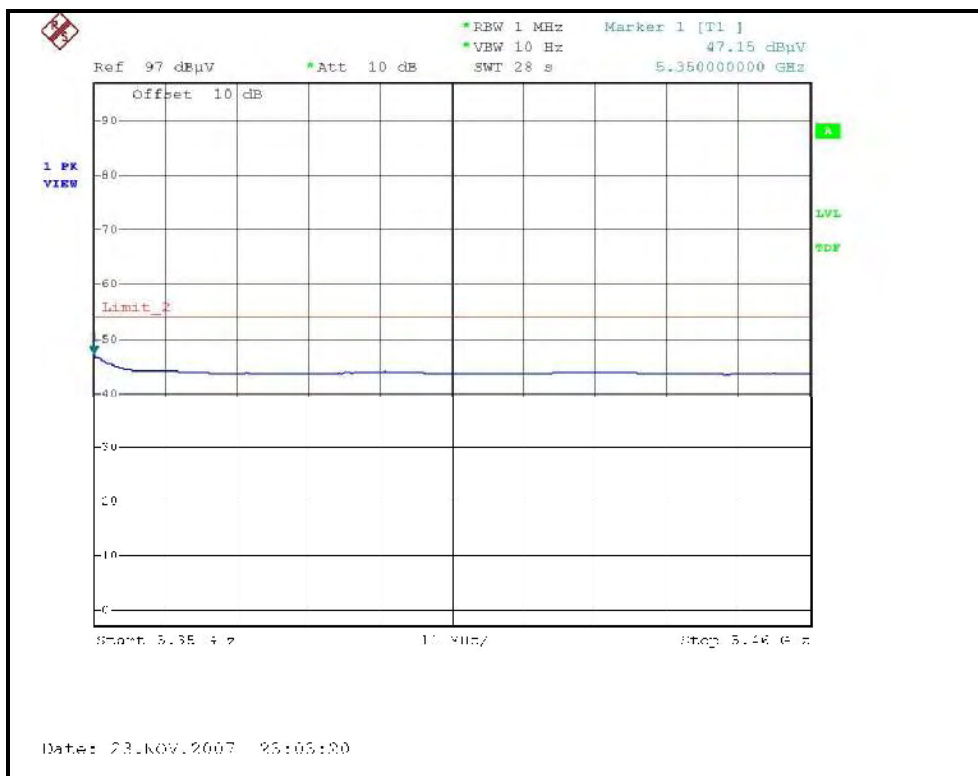
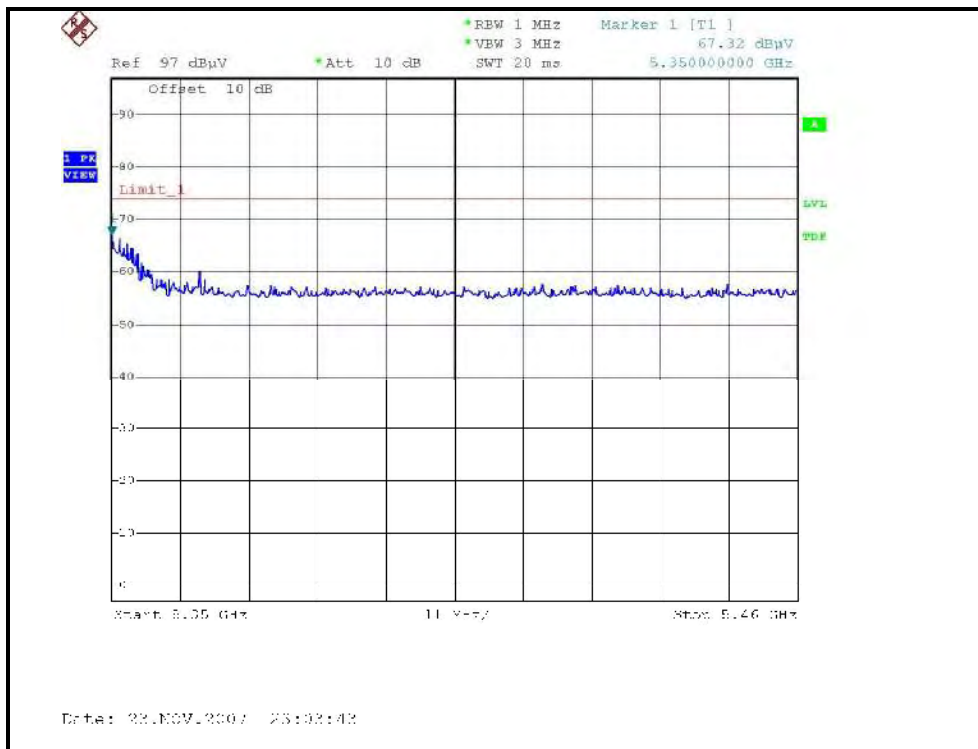
- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
  2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. “ \* “: Fundamental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



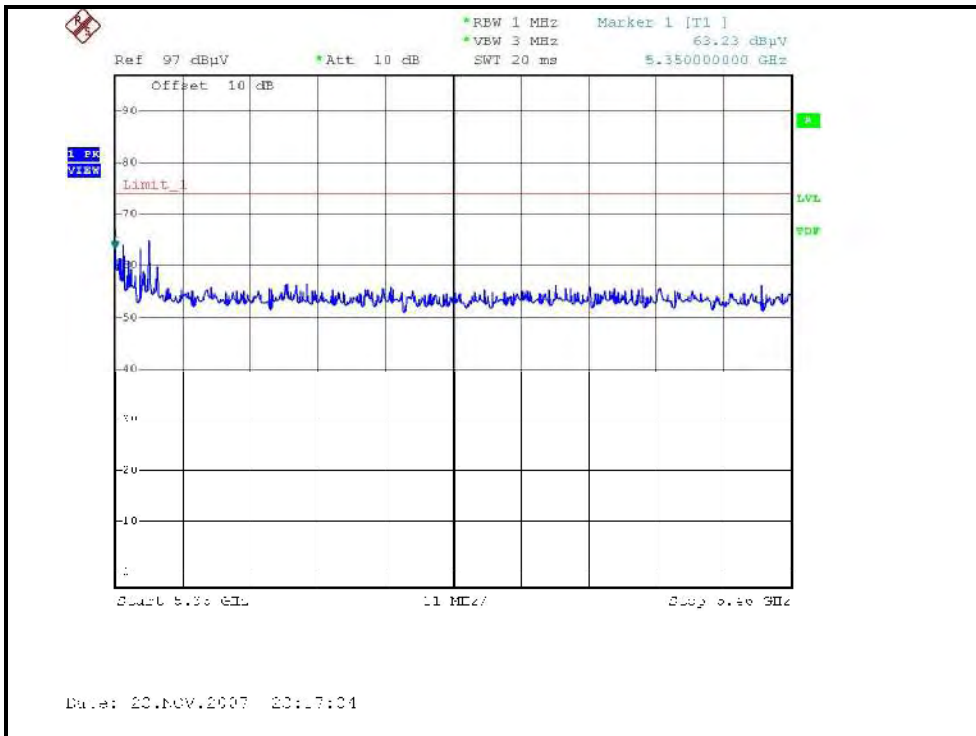
RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE, CH1, VERTICAL )



RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE, CH8, HORIZONTAL )

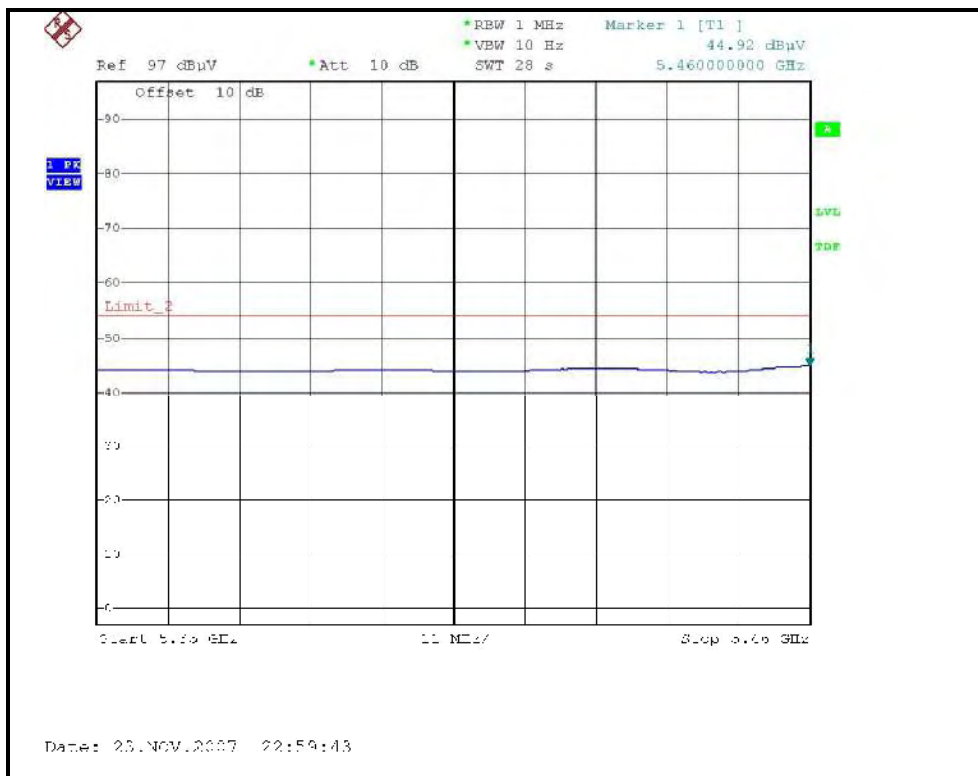
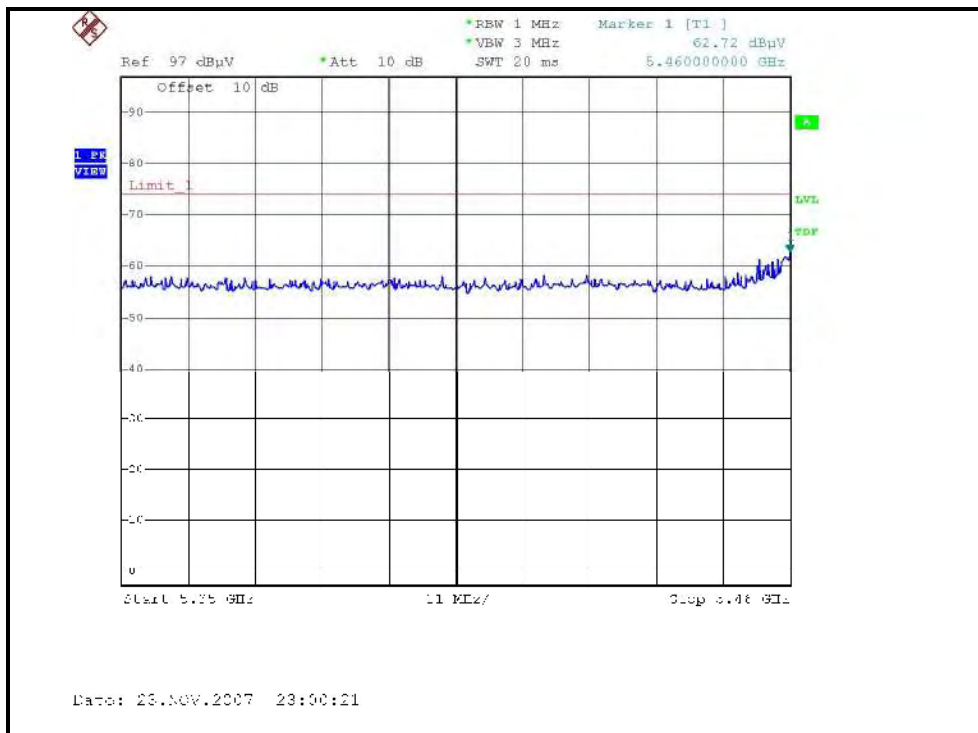


RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE,CH8, VERTICAL )

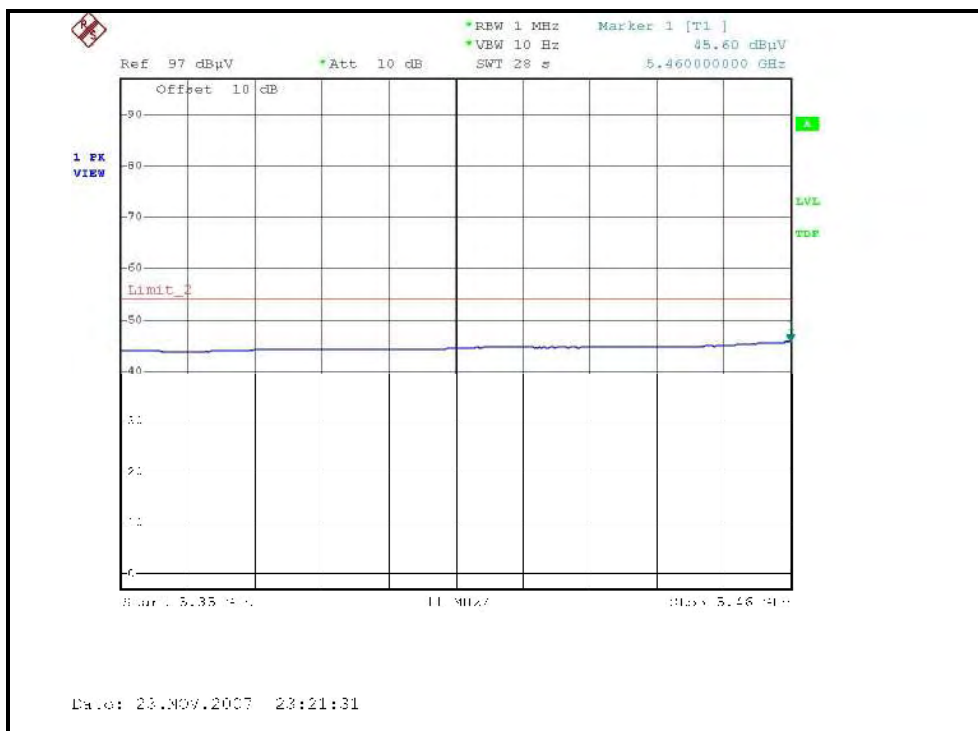
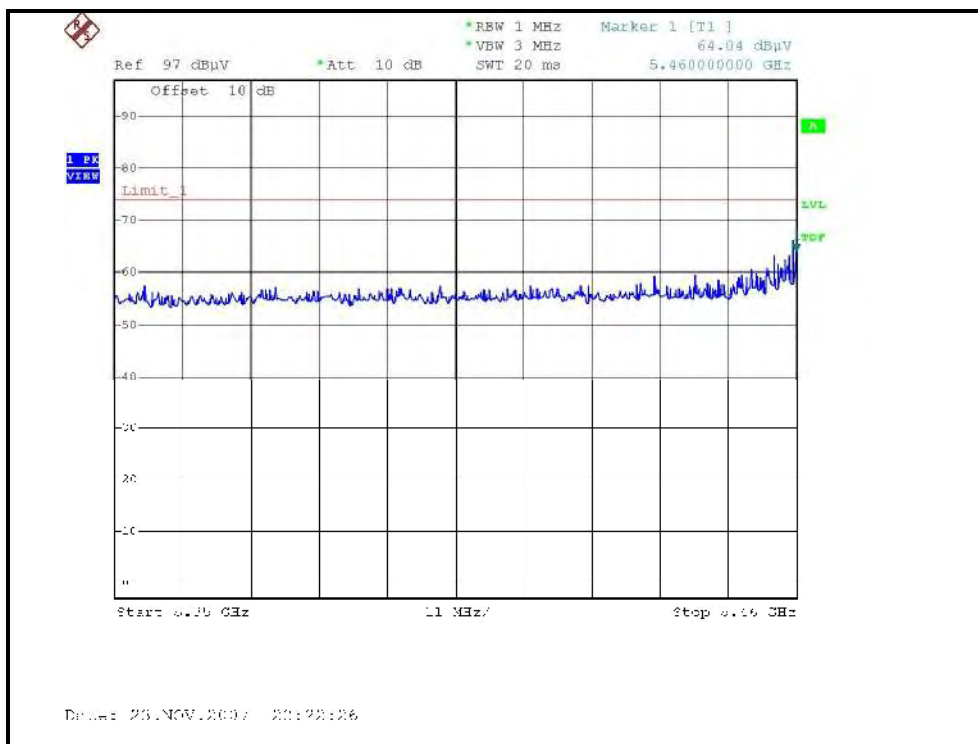




RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE, CH9, HORIZONTAL )



RESTRICTED BANDEDGE (DRAFT 802.11n (20MHz) MODE, CH9, VERTICAL )



**DRAFT 802.11n (40MHz) OFDM MODULATION**

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5150.00	67.19 PK	74.00	-6.81	1.25 H	203	30.95	36.24
2	#5150.00	52.13 AV	54.00	-1.87	1.25 H	203	15.89	36.24
3	*5190.00	107.20 PK			1.25 H	203	70.91	36.29
4	*5190.00	93.40 AV			1.25 H	203	57.11	36.29
5	6920.00	57.00 PK	88.30	-31.30	1.18 H	220	15.84	41.16
6	6920.00	47.20 AV	68.30	-21.10	1.18 H	220	6.04	41.16
7	10380.00	58.00 PK	88.30	-30.30	1.06 H	22	12.07	45.93
8	10380.00	44.80 AV	68.30	-23.50	1.06 H	22	-1.13	45.93

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	#5150.00	70.56 PK	74.00	-3.44	1.30 V	145	34.32	36.24
2	#5150.00	53.45 AV	54.00	-0.55	1.30 V	145	17.21	36.24
3	*5190.00	110.60 PK			1.30 V	280	74.31	36.29
4	*5190.00	96.60 AV			1.30 V	280	60.31	36.29
5	6920.00	52.20 PK	88.30	-36.10	1.24 V	18	11.04	41.16
6	6920.00	44.80 AV	68.30	-23.50	1.24 V	18	3.64	41.16
7	10380.00	59.30 PK	88.30	-29.00	1.40 V	3	13.37	45.93
8	10380.00	46.20 AV	68.30	-22.10	1.40 V	3	0.27	45.93

- 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.
  6. “ # ”: The radiated frequency falling in the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 2	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	108.20 PK			1.28 H	212	71.86	36.34
2	*5230.00	94.60 AV			1.28 H	212	58.26	36.34
3	6973.30	59.00 PK	88.30	-29.30	1.06 H	185	17.71	41.29
4	6973.30	48.20 AV	68.30	-20.10	1.06 H	185	6.91	41.29
5	10460.00	59.60 PK	88.30	-28.70	1.12 H	18	13.52	46.08
6	10460.00	44.60 AV	68.30	-23.70	1.12 H	18	-1.48	46.08
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	*5230.00	110.80 PK			1.24 V	266	74.46	36.34
2	*5230.00	97.20 AV			1.24 V	266	60.86	36.34
3	6973.30	54.20 PK	88.30	-34.10	1.20 V	20	12.91	41.29
4	6973.30	46.00 AV	68.30	-22.30	1.20 V	20	4.71	41.29
5	10460.00	63.50 PK	88.30	-24.80	1.50 V	14	17.42	46.08
6	10460.00	46.10 AV	68.30	-22.20	1.50 V	14	0.02	46.08

- 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.
  6. “ # ”: The radiated frequency falling in the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 3	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5270.00	107.50 PK			1.22 H	208	71.12	36.38
2	*5270.00	94.00 AV			1.22 H	208	57.62	36.38
3	7026.60	58.20 PK	88.30	-30.10	1.14 H	210	16.74	41.46
4	7026.60	48.60 AV	68.30	-19.70	1.14 H	210	7.14	41.46
5	10540.00	60.80 PK	88.30	-27.50	1.20 H	42	14.61	46.19
6	10540.00	46.00 AV	68.30	-22.30	1.20 H	42	-0.19	46.19
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	*5270.00	110.10 PK			1.24 V	330	73.72	36.38
2	*5270.00	96.50 AV			1.24 V	330	60.12	36.38
3	7026.60	54.80 PK	88.30	-33.50	1.30 V	2	13.34	41.46
4	7026.60	46.40 AV	68.30	-21.90	1.30 V	2	4.94	41.46
5	10540.00	64.60 PK	88.30	-23.70	1.55 V	10	18.41	46.19
6	10540.00	47.20 AV	68.30	-21.10	1.55 V	10	1.01	46.19

- 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.
  6. “ # ”: The radiated frequency falling in the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	109.80 PK			1.18 H	3	73.37	36.43
2	*5310.00	94.70 AV			1.18 H	3	58.27	36.43
3	#5350.00	67.29 PK	74.00	-6.71	1.18 H	3	30.81	36.48
4	#5350.00	52.74 AV	54.00	-1.26	1.18 H	3	16.26	36.48
5	7080.00	57.80 PK	88.30	-30.50	1.25 H	242	16.14	41.66
6	7080.00	48.80 AV	68.30	-19.50	1.25 H	242	7.14	41.66
7	#10620.00	59.20 PK	74.00	-14.80	1.28 H	15	12.93	46.27
8	#10620.00	47.00 AV	54.00	-7.00	1.28 H	15	0.73	46.27
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	*5310.00	111.20 PK			1.16 V	282	74.77	36.43
2	*5310.00	96.90 AV			1.16 V	282	60.47	36.43
3	#5350.00	67.21 PK	74.00	-6.79	1.26 V	16	30.73	36.48
4	#5350.00	53.29 AV	54.00	-0.71	1.26 V	16	16.81	36.48
5	7080.00	53.60 PK	88.30	-34.70	1.02 V	17	11.94	41.66
6	7080.00	46.20 AV	68.30	-22.10	1.02 V	17	4.54	41.66
7	#10620.00	62.50 PK	74.00	-11.50	1.48 V	10	16.23	46.27
8	#10620.00	48.90 AV	54.00	-5.10	1.48 V	10	2.63	46.27

- 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.
  6. “ # ”: The radiated frequency falling in the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 5	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5460.00	67.36 PK	74.00	-6.64	1.23 H	0	30.75	36.61
2	#5460.00	49.21 AV	54.00	-4.79	1.23 H	0	12.60	36.61
3	5470.00	72.60 PK	88.30	-15.70	1.23 H	0	35.98	36.62
4	5470.00	52.80 AV	68.30	-15.50	1.23 H	0	16.18	36.62
5	*5510.00	110.00 PK			1.24 H	0	73.32	36.68
6	*5510.00	94.50 AV			1.24 H	0	57.82	36.68
7	#7346.60	55.20 PK	74.00	-18.80	1.12 H	205	12.55	42.65
8	#7346.60	47.00 AV	54.00	-7.00	1.12 H	205	4.35	42.65
9	#11020.00	62.40 PK	74.00	-11.60	1.10 H	6	15.73	46.67
10	#11020.00	48.60 AV	54.00	-5.40	1.10 H	6	1.93	46.67
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	#5460.00	70.21 PK	74.00	-3.79	1.02 V	60	33.60	36.61
2	#5460.00	51.16 AV	54.00	-2.84	1.02 V	60	14.55	36.61
3	5470.00	73.70 PK	88.30	-14.60	1.02 V	60	37.08	36.62
4	5470.00	53.70 AV	68.30	-14.60	1.02 V	60	17.08	36.62
5	*5510.00	111.30 PK			1.02 V	60	74.62	36.68
6	*5510.00	97.20 AV			1.02 V	60	60.52	36.68
7	#7346.60	53.90 PK	74.00	-20.10	1.34 V	154	11.25	42.65
8	#7346.60	45.80 AV	54.00	-8.20	1.34 V	154	3.15	42.65
9	#11020.00	64.40 PK	74.00	-9.60	1.36 V	340	17.73	46.67
10	#11020.00	50.50 AV	54.00	-3.50	1.36 V	340	3.83	46.67

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5590.00	112.01 PK			1.27 H	2	75.13	36.88
2	*5590.00	95.42 AV			1.27 H	2	58.54	36.88
3	#7453.33	55.70 PK	74.00	-18.30	1.14 H	269	12.65	43.05
4	#7453.33	47.21 AV	54.00	-6.79	1.14 H	269	4.16	43.05
5	#11180.00	61.73 PK	74.00	-12.27	1.12 H	64	14.94	46.79
6	#11180.00	47.80 AV	54.00	-6.20	1.12 H	64	1.01	46.79
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	*5590.00	111.80 PK			1.30 V	26	74.92	36.88
2	*5590.00	95.34 AV			1.30 V	26	58.46	36.88
3	#7453.30	53.10 PK	74.00	-20.90	1.40 V	90	10.05	43.05
4	#7453.30	43.80 AV	54.00	-10.20	1.40 V	90	0.75	43.05
5	#11180.00	63.18 PK	74.00	-10.82	1.32 V	80	16.39	46.79
6	#11180.00	49.25 AV	54.00	-4.75	1.32 V	80	2.46	46.79

- 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.
  6. “ # ”: The radiated frequency falling in the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 9	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	108.80 PK			1.28 H	16	71.73	37.07
2	*5670.00	94.60 AV			1.28 H	16	57.53	37.07
3	5725.00	67.20 PK	88.30	-21.10	1.28 H	16	29.99	37.21
4	5725.00	46.80 AV	68.30	-21.50	1.28 H	16	9.59	37.21
5	#7560.00	57.80 PK	74.00	-16.20	1.06 H	100	14.44	43.36
6	#7560.00	48.40 AV	54.00	-5.60	1.06 H	100	5.04	43.36
7	#11340.00	59.50 PK	74.00	-14.50	1.20 H	56	12.59	46.91
8	#11340.00	47.00 AV	54.00	-7.00	1.20 H	56	0.09	46.91
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	*5670.00	111.80 PK			1.08 V	284	74.73	37.07
2	*5670.00	98.30 AV			1.08 V	284	61.23	37.07
3	5725.00	68.80 PK	88.30	-19.50	1.08 V	284	31.59	37.21
4	5725.00	47.70 AV	68.30	-20.60	1.08 V	284	10.49	37.21
5	#7560.00	54.10 PK	74.00	-19.90	1.03 V	10	10.74	43.36
6	#7560.00	46.30 AV	54.00	-7.70	1.03 V	10	2.94	43.36
7	#11340.00	61.70 PK	74.00	-12.30	1.36 V	0	14.79	46.91
8	#11340.00	48.90 AV	54.00	-5.10	1.36 V	0	1.99	46.91

- 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.
  6. “ # ”: The radiated frequency falling in the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 10	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5715.00	77.60 PK	88.30	-10.70	1.20 H	25	40.42	37.18
2	#5715.00	50.20 AV	68.30	-18.10	1.20 H	25	13.02	37.18
3	5725.00	85.00 PK	98.30	-13.30	1.20 H	25	47.79	37.21
4	5725.00	54.80 AV	78.30	-23.50	1.20 H	25	17.59	37.21
5	*5755.00	108.20 PK			1.20 H	25	70.92	37.28
6	*5755.00	94.20 AV			1.20 H	25	56.92	37.28
7	#7673.30	58.00 PK	74.00	-16.00	1.10 H	192	14.38	43.62
8	#7673.30	48.00 AV	54.00	-6.00	1.10 H	192	4.38	43.62
9	#11510.00	59.20 PK	74.00	-14.80	1.25 H	48	12.18	47.02
10	#11510.00	47.50 AV	54.00	-6.50	1.25 H	48	0.48	47.02
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	#5715.00	78.80 PK	88.30	-9.50	1.07 V	290	41.62	37.18
2	#5715.00	51.40 AV	68.30	-16.90	1.07 V	290	14.22	37.18
3	5725.00	86.20 PK	98.30	-12.10	1.07 V	290	48.99	37.21
4	5725.00	56.00 AV	78.30	-22.30	1.07 V	290	18.79	37.21
5	*5755.00	110.90 PK			1.07 V	290	73.62	37.28
6	*5755.00	97.20 AV			1.07 V	290	59.92	37.28
7	#7673.30	54.40 PK	74.00	-19.60	1.24 V	325	10.78	43.62
8	#7673.30	46.60 AV	54.00	-7.40	1.24 V	325	2.98	43.62
9	#11510.00	60.90 PK	74.00	-13.10	1.30 V	6	13.88	47.02
10	#11510.00	49.20 AV	54.00	-4.80	1.30 V	6	2.18	47.02

- 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.
  6. “ # ”: The radiated frequency falling in the restricted band.

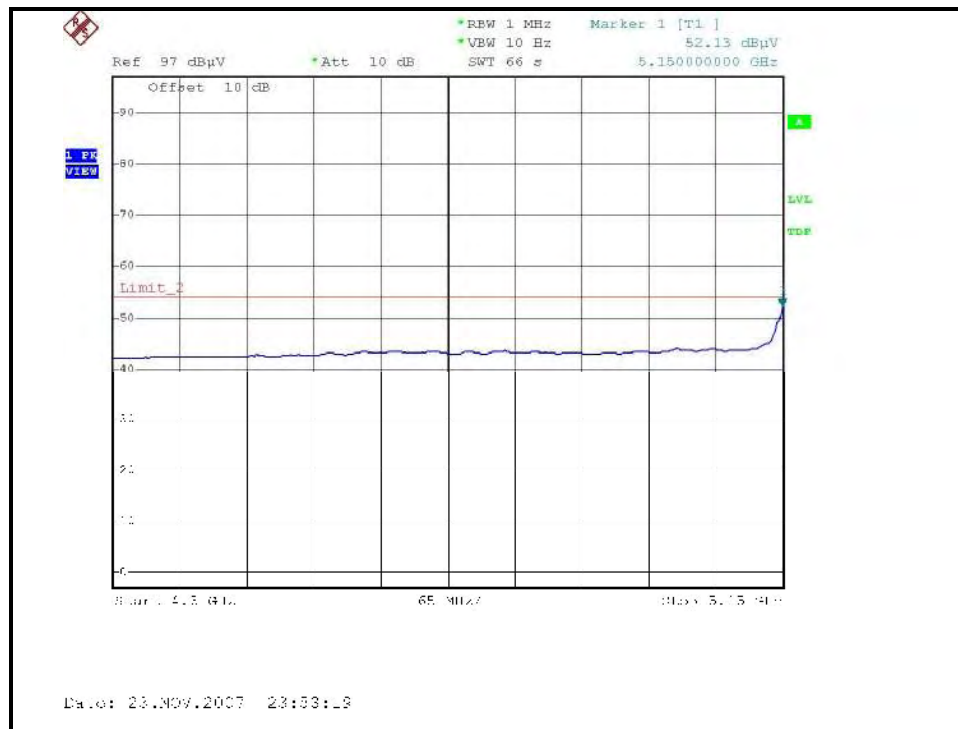
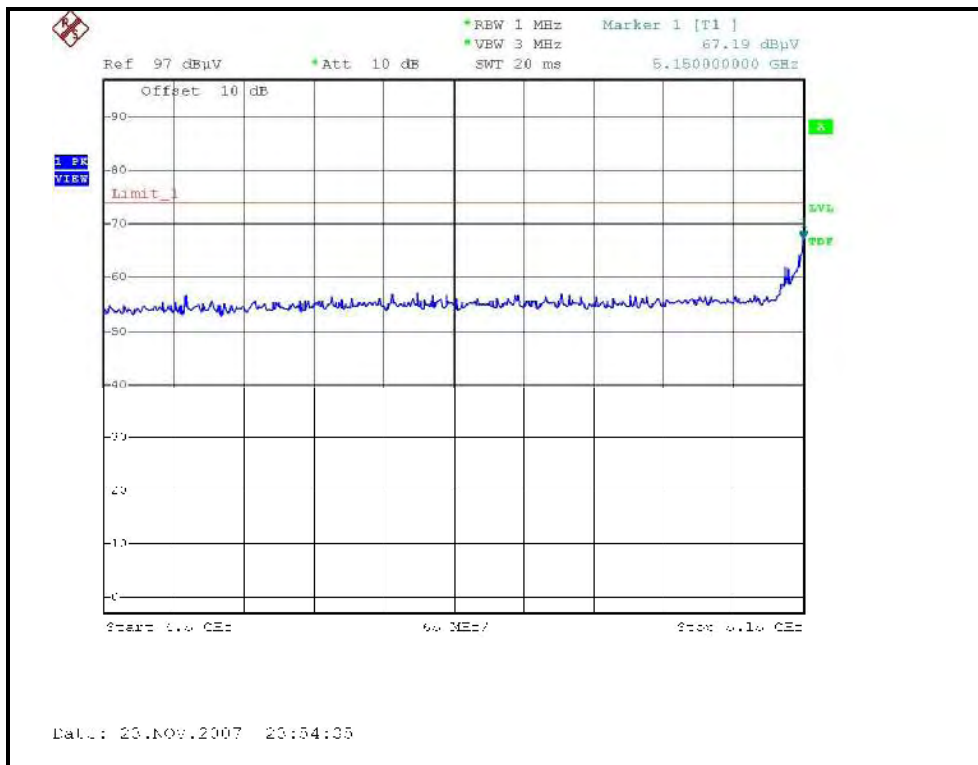


EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 12	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	20deg. C, 62%RH 971hPa	TESTED BY	Sky Liao

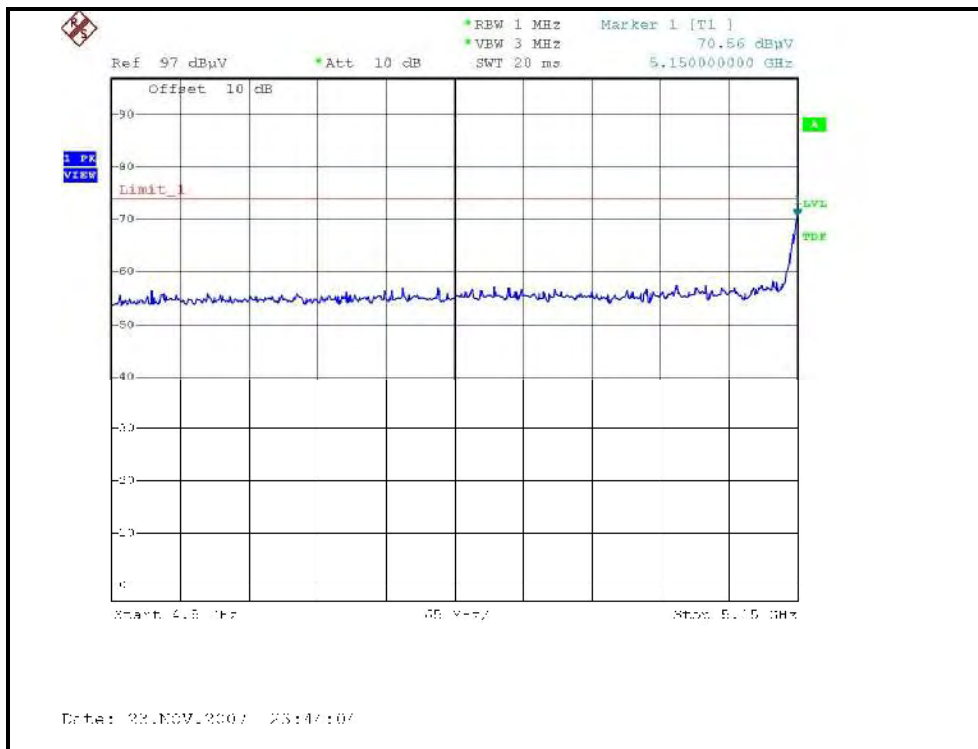
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5795.00	109.00 PK			1.25 H	12	71.62	37.38
2	*5795.00	94.80 AV			1.25 H	12	57.42	37.38
3	5825.00	85.00 PK	98.30	-13.30	1.25 H	12	47.55	37.45
4	5825.00	51.20 AV	78.30	-27.10	1.25 H	12	13.75	37.45
5	5835.00	76.20 PK	88.30	-12.10	1.25 H	12	38.72	37.48
6	5835.00	46.80 AV	68.30	-21.50	1.25 H	12	9.32	37.48
7	#7726.60	57.20 PK	74.00	-16.80	1.02 H	233	13.46	43.74
8	#7726.60	47.40 AV	54.00	-6.60	1.02 H	233	3.66	43.74
9	#11590.00	58.50 PK	74.00	-15.50	1.28 H	32	11.57	46.93
10	#11590.00	46.60 AV	54.00	-7.40	1.28 H	32	-0.33	46.93
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	*5795.00	111.70 PK			1.07 V	288	74.32	37.38
2	*5795.00	97.20 AV			1.07 V	288	59.82	37.38
3	5825.00	86.60 PK	98.30	-11.70	1.08 V	288	49.15	37.45
4	5825.00	52.10 AV	78.30	-26.20	1.08 V	288	14.65	37.45
5	5835.00	77.80 PK	88.30	-10.50	1.07 V	288	40.32	37.48
6	5835.00	48.20 AV	68.30	-20.10	1.07 V	288	10.72	37.48
7	#7726.60	53.40 PK	74.00	-20.60	1.04 V	266	9.66	43.74
8	#7726.60	45.50 AV	54.00	-8.50	1.04 V	266	1.76	43.74
9	#11590.00	62.10 PK	74.00	-11.90	1.34 V	14	15.17	46.93
10	#11590.00	48.10 AV	54.00	-5.90	1.34 V	14	1.17	46.93

- 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.
  6. “ # ”: The radiated frequency falling in the restricted band.

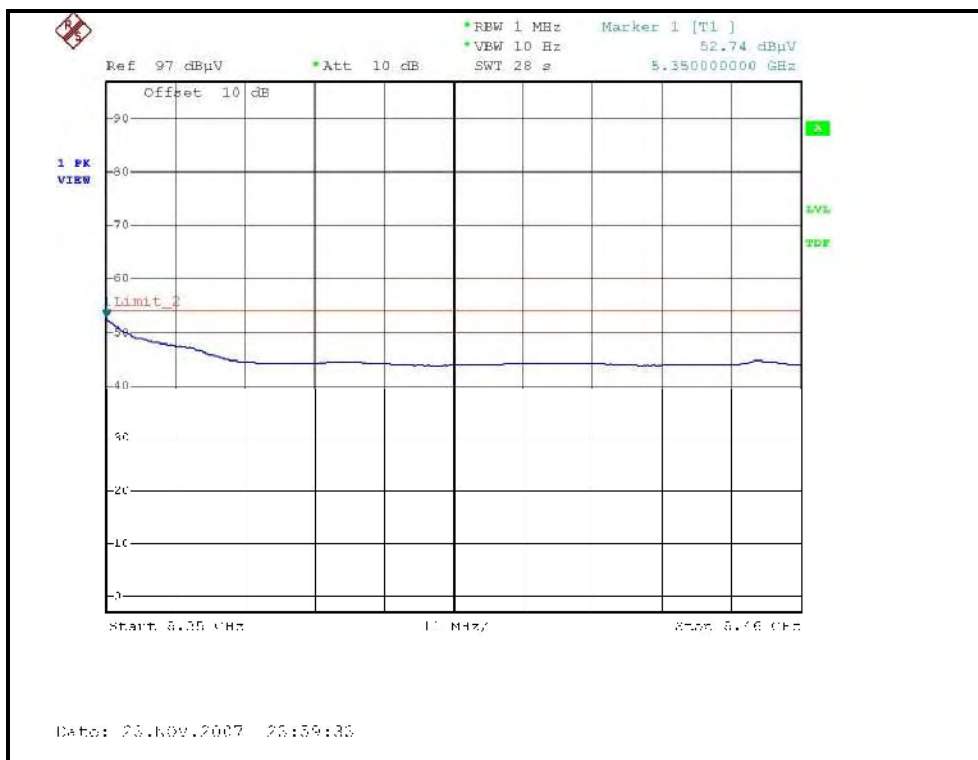
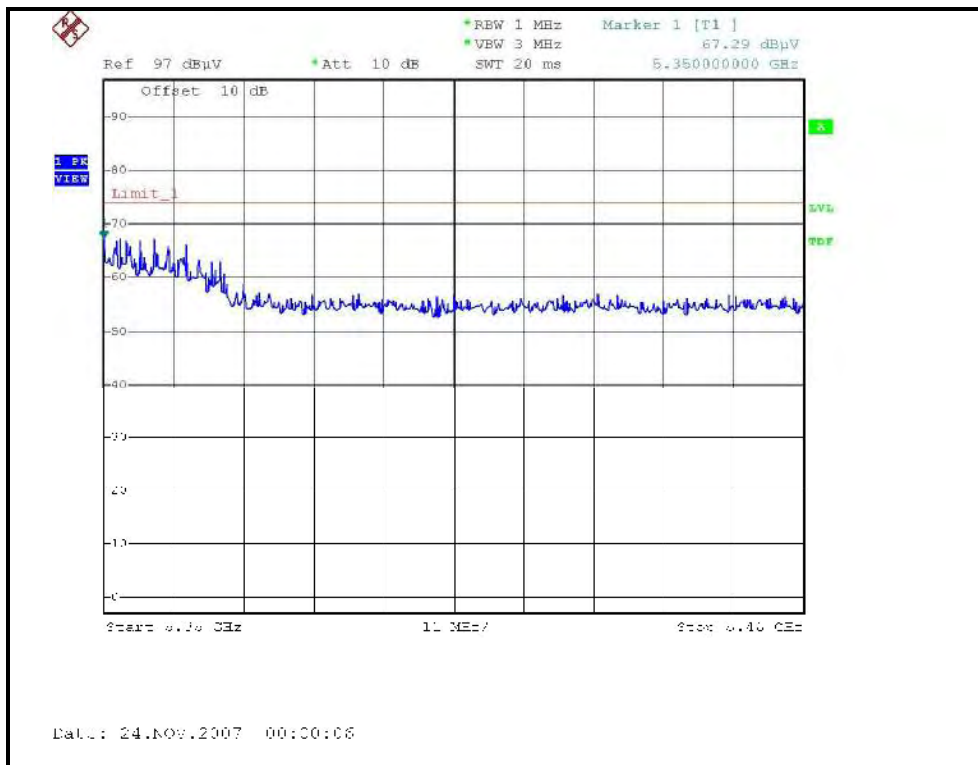
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH1, HORIZONTAL)



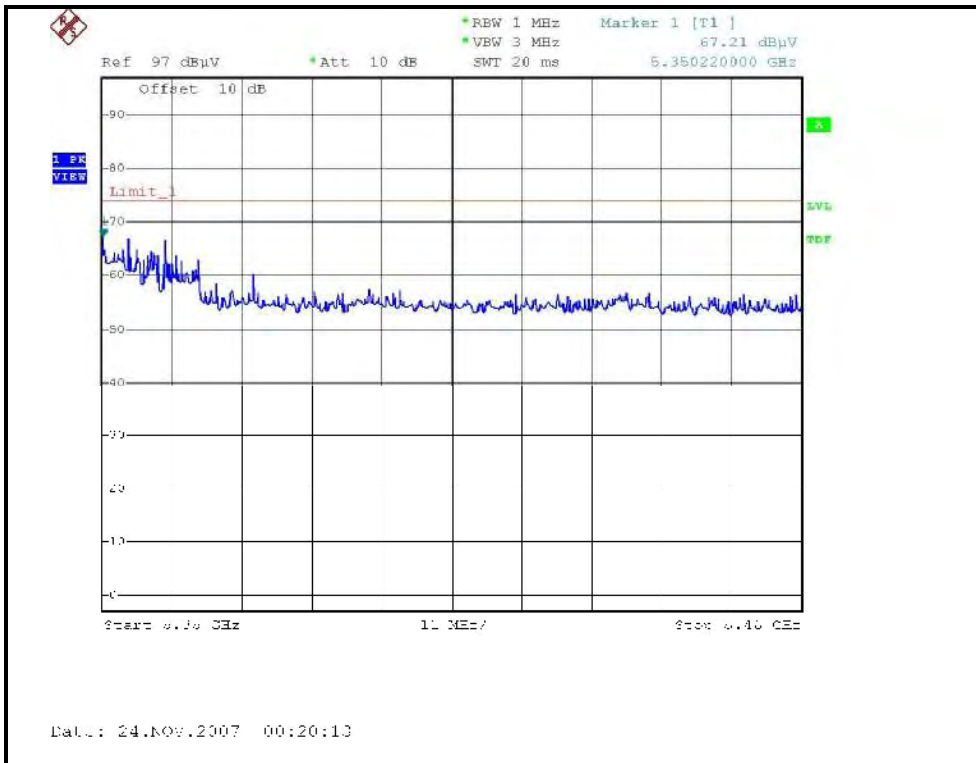
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE,CH1, VERTICAL )



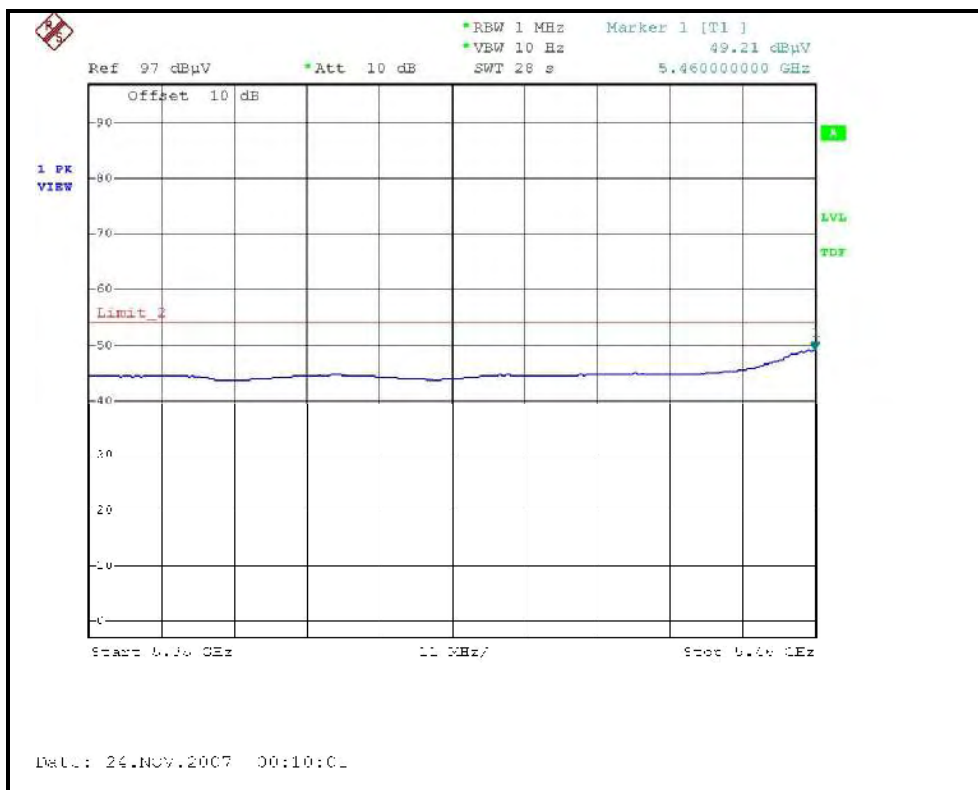
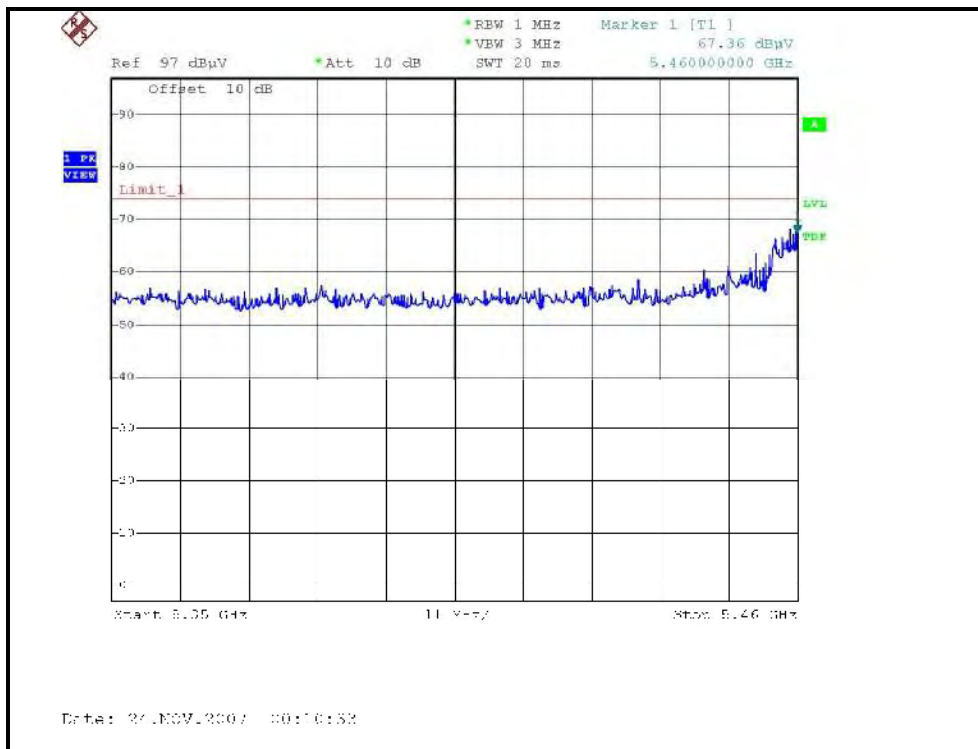
RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH4, HORIZONTAL)



RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH4, VERTICAL)

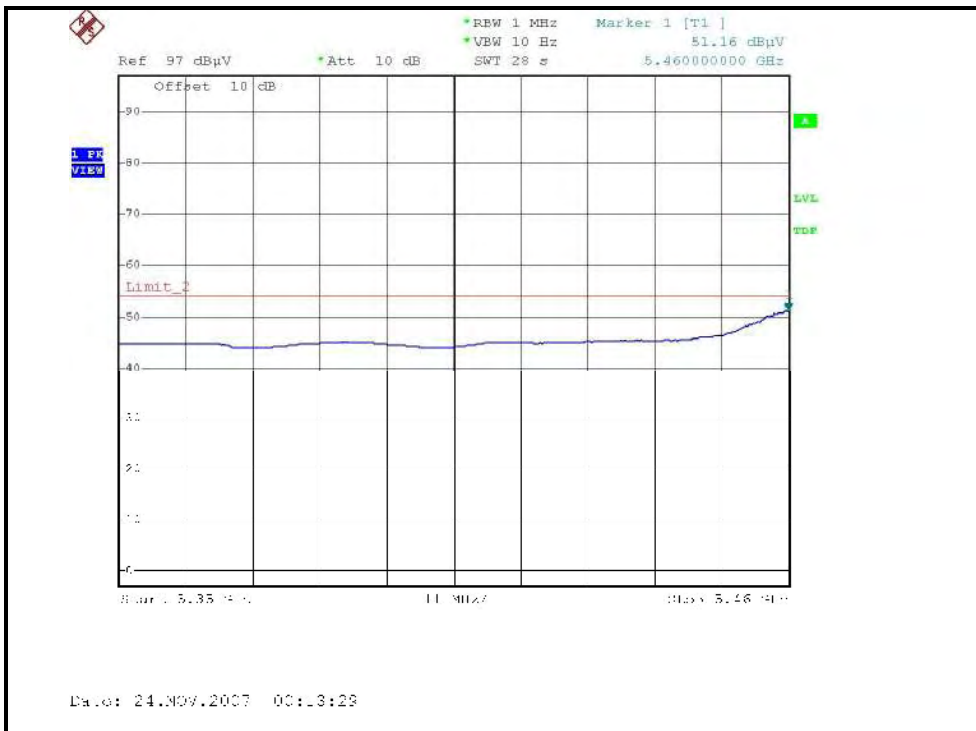
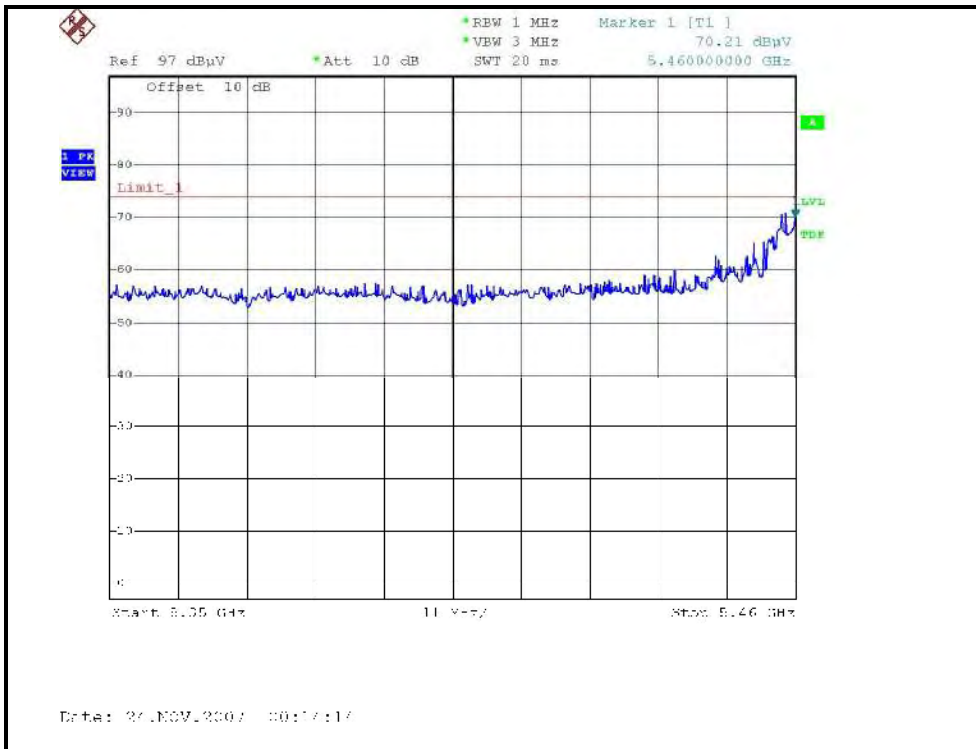


RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH5, HORIZONTAL)





RESTRICTED BANDEDGE (DRAFT 802.11n (40MHz) MODE, CH5, VERTICAL)





### 4.3 PEAK TRANSMIT POWER MEASUREMENT

#### 4.3.1 LIMITS OF PEAK TRANSMIT POWER MEASUREMENT

Frequency Band	Limit
5.15 – 5.25GHz	The lesser of 50mW (17dBm) or 4dBm + 10logB
5.25 – 5.35GHz	The lesser of 250mW (24dBm) or 11dBm + 10logB
5.47 – 5.725GHz	The lesser of 250mW (24dBm) or 11dBm + 10logB
5.725 – 5.825GHz	The lesser of 1W (30dBm) or 17dBm + 10logB

**NOTE:** Where B is the 26dB emission bandwidth in MHz.

#### 4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
ADVANTEST SPECTRUM ANALYZER	U3772	160100280	April 10, 2008

**NOTE:**

- 1.The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
- 2.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

1. The transmitter output was connected to the spectrum analyzer.
2. Set span to encompass the entire emission bandwidth of the signal.
3. Set RBW to 1MHz, VBW to 300kHz.
4. Using the spectrum analyzer's channel power measurement function to measure the output power.

**NOTE:**

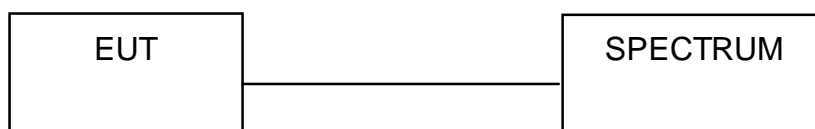
The test is performed in accordance with FCC Public Notice: APPENDIX A Guidelines for Assessing Unlicensed National Information Infrastructure (U-NII) Devices – Part 15, Subpart E, August 2002.

The transmitter output operates continuously therefore Method # 1 is used.

#### 4.3.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.3.5 TEST SETUP



#### 4.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.



#### 4.3.7 TEST RESULTS

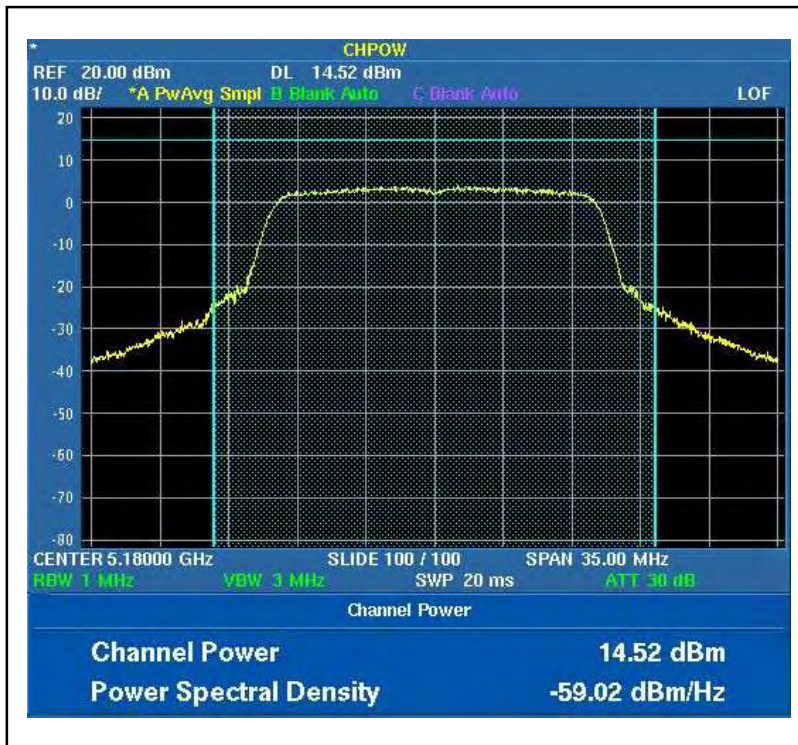
##### 802.11a OFDM MODULATION:

<b>MODULATION TYPE</b>	BPSK	<b>TRANSFER RATE</b>	6Mbps
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>ENVIRONMENTAL CONDITIONS</b>	20deg.C, 60%RH, 971hPa
<b>TESTED BY</b>	Rex Huang		

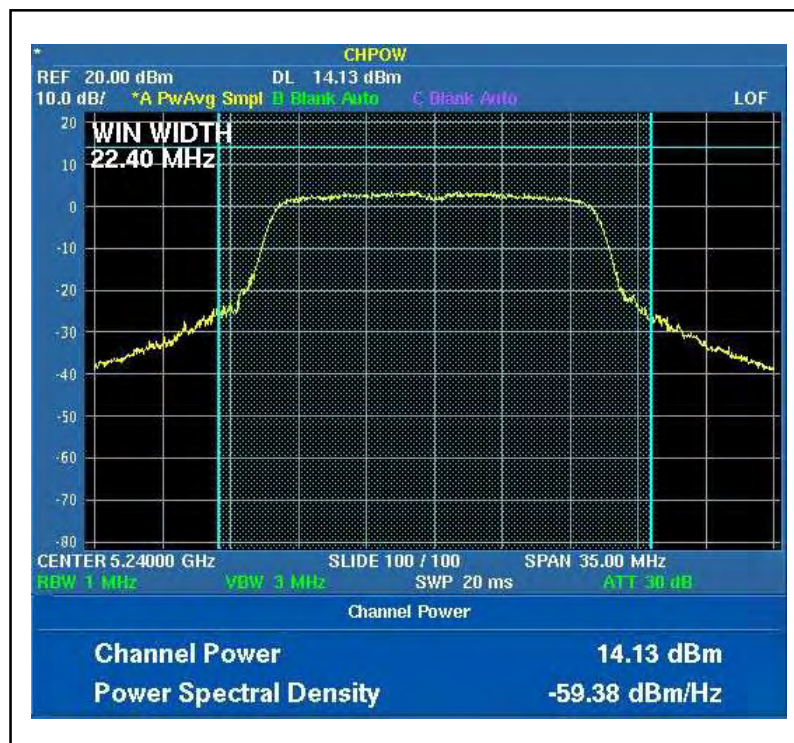
CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER OUTPUT (mW)	PEAK POWER LIMIT (dBm)	26dBc Occupied Bandwidth (MHz)	PASS/FAIL
1	5180	14.52	28.314	17	22.57	PASS
4	5240	14.13	25.882	17	22.4	PASS
5	5260	15.79	37.931	24	22.4	PASS
8	5320	15.92	39.084	24	22.5	PASS
9	5500	16.21	41.783	24	22.47	PASS
14	5600	14.95	31.261	24	22.19	PASS
19	5700	15.72	37.325	24	24.75	PASS
20	5745	15.27	31.261	30	24.39	PASS
22	5785	14.67	33.651	30	24.54	PASS
23	5805	14.53	28.379	30	25.13	PASS

**NOTE:** The 26dBc Occupied Bandwidth plot, please refer to the following pages.

Peak Power Output:  
CH1



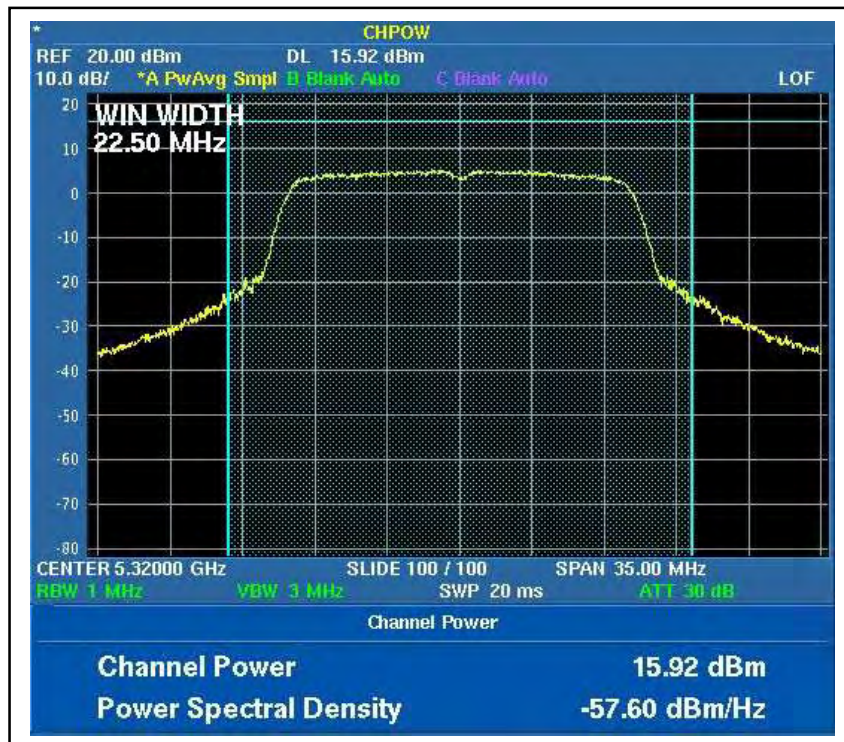
CH4



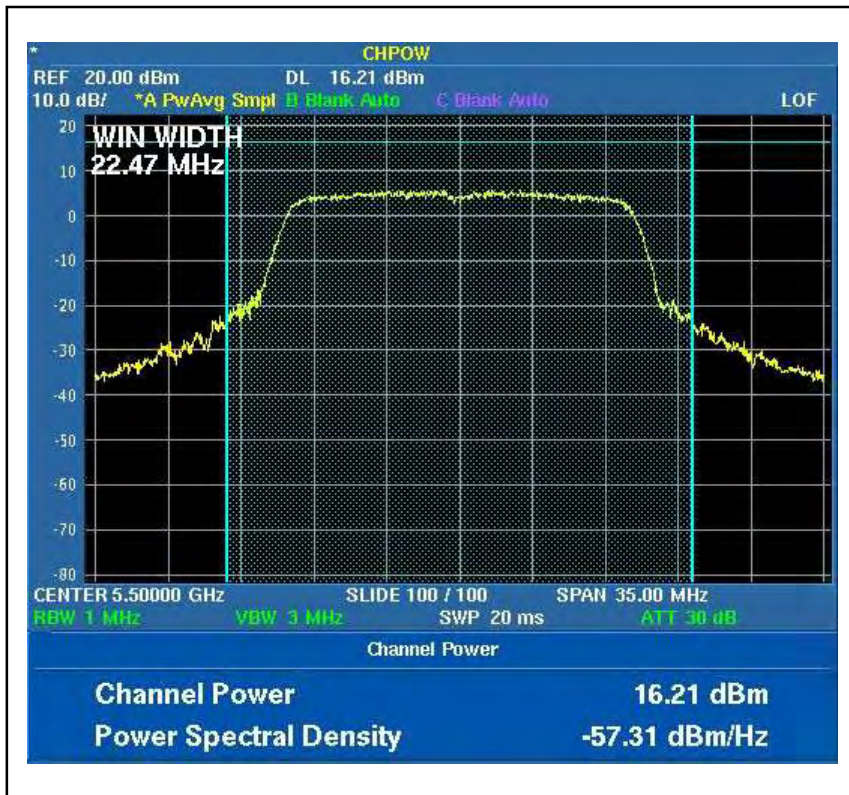
CH5



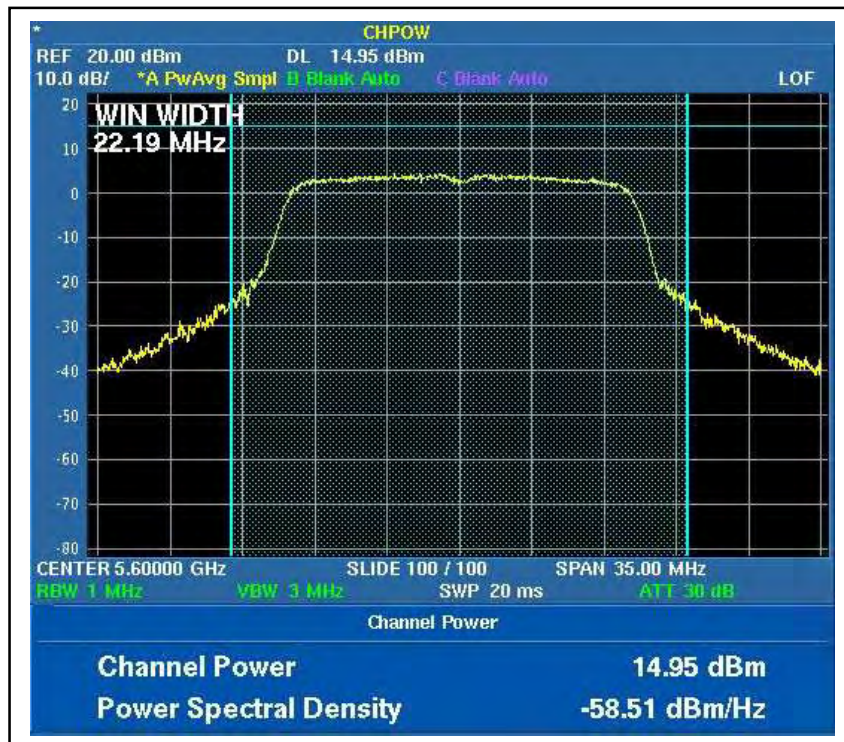
CH8



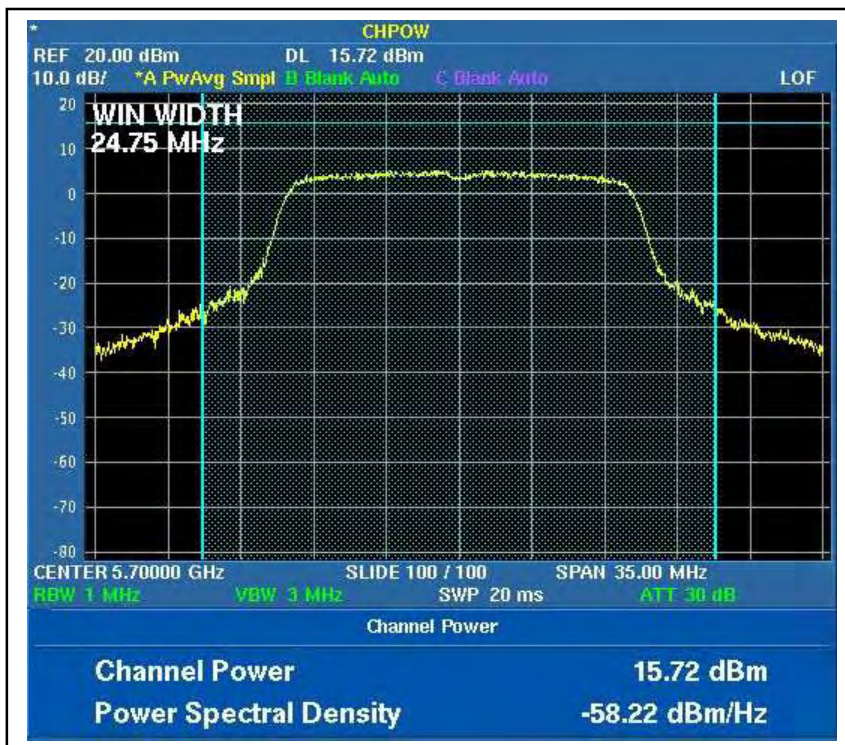
CH9



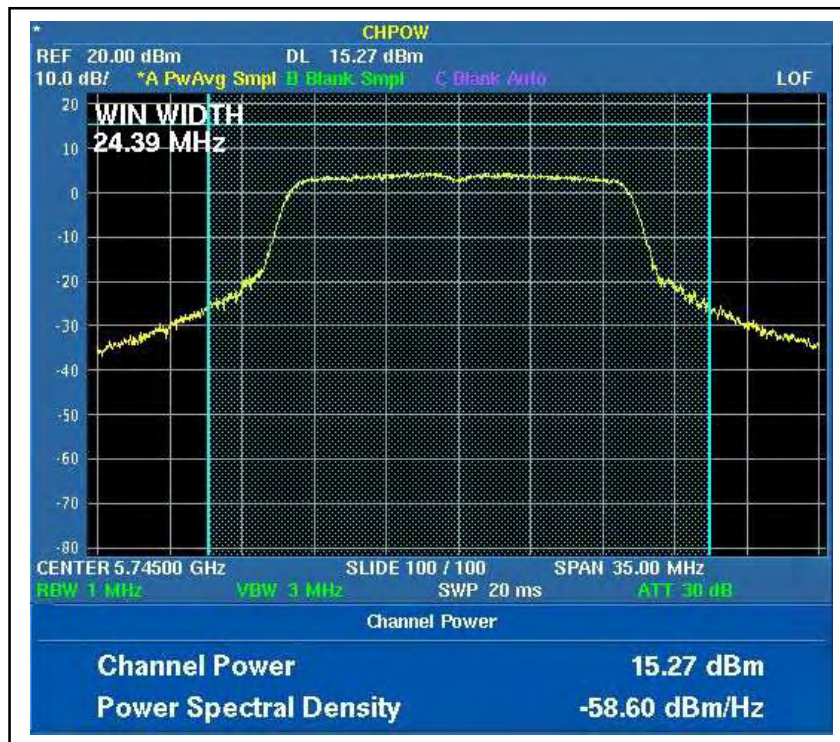
CH14



CH19

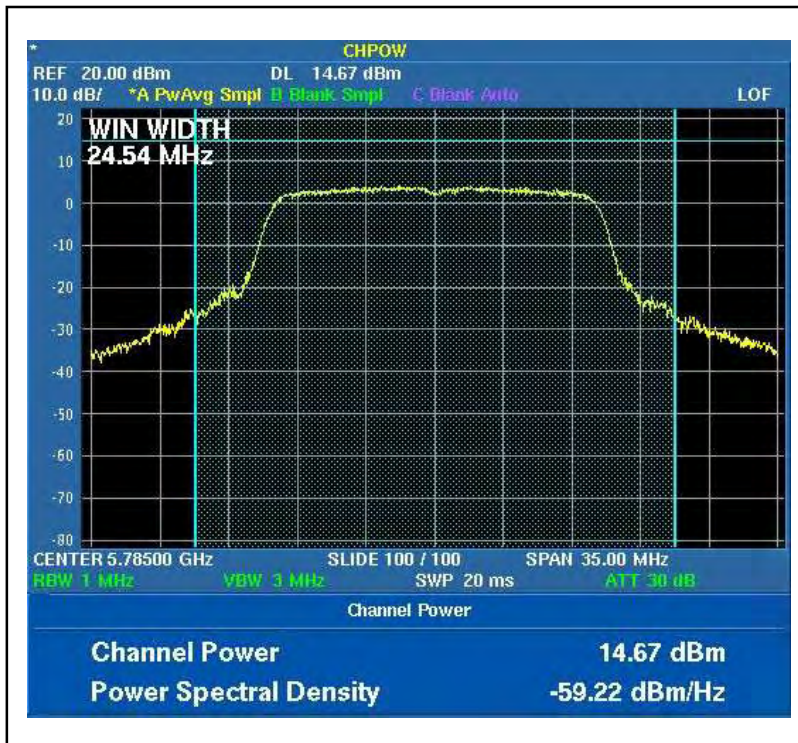


CH20

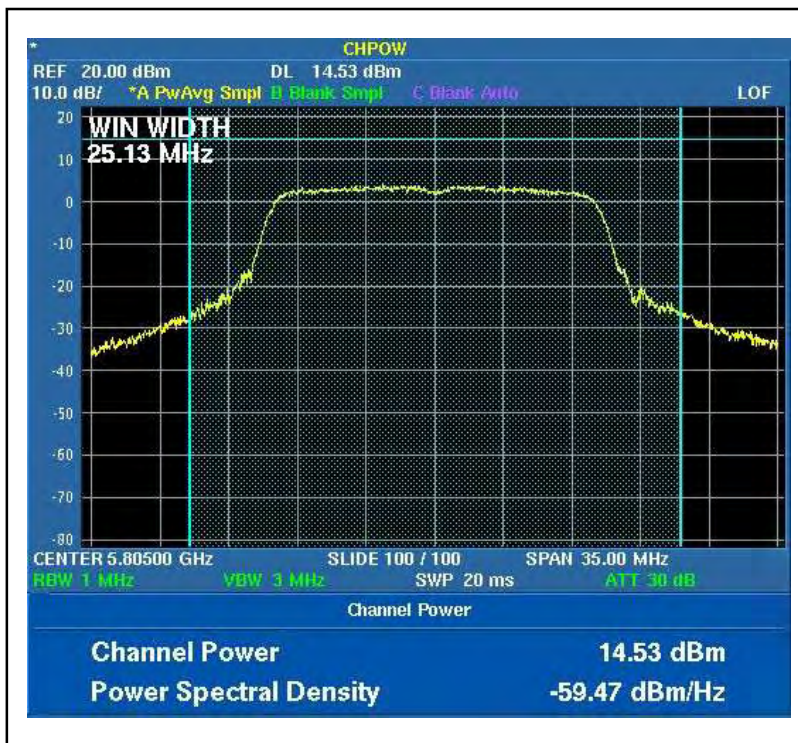




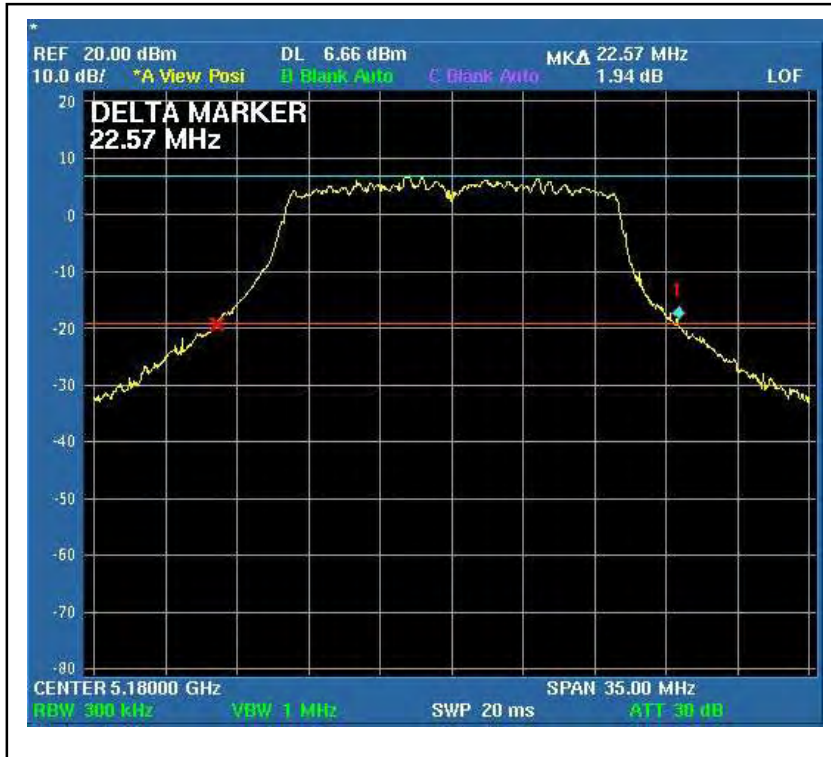
CH22



CH23



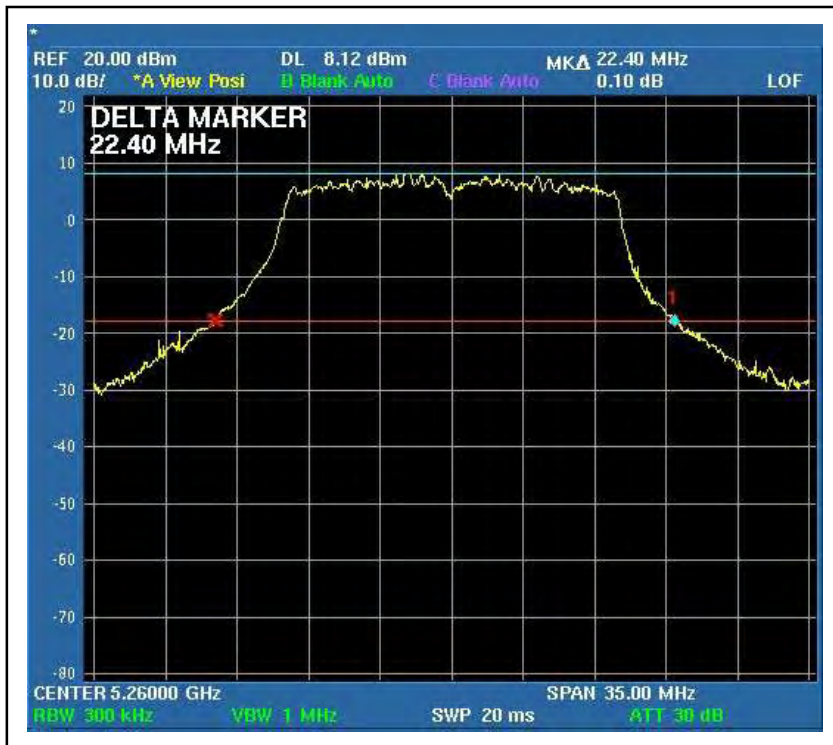
26dB Occupied Bandwidth:  
CH1



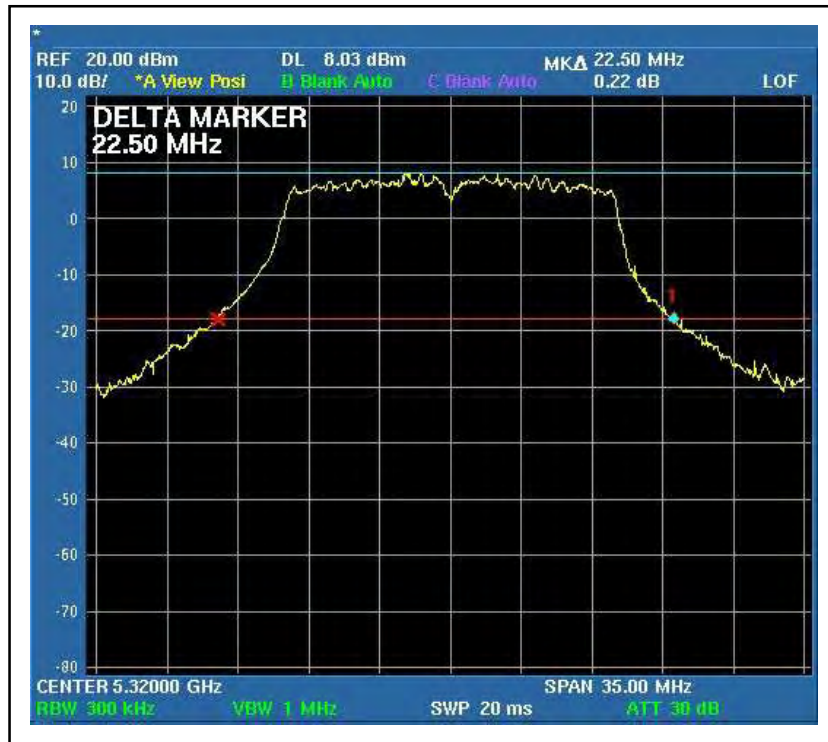
CH4



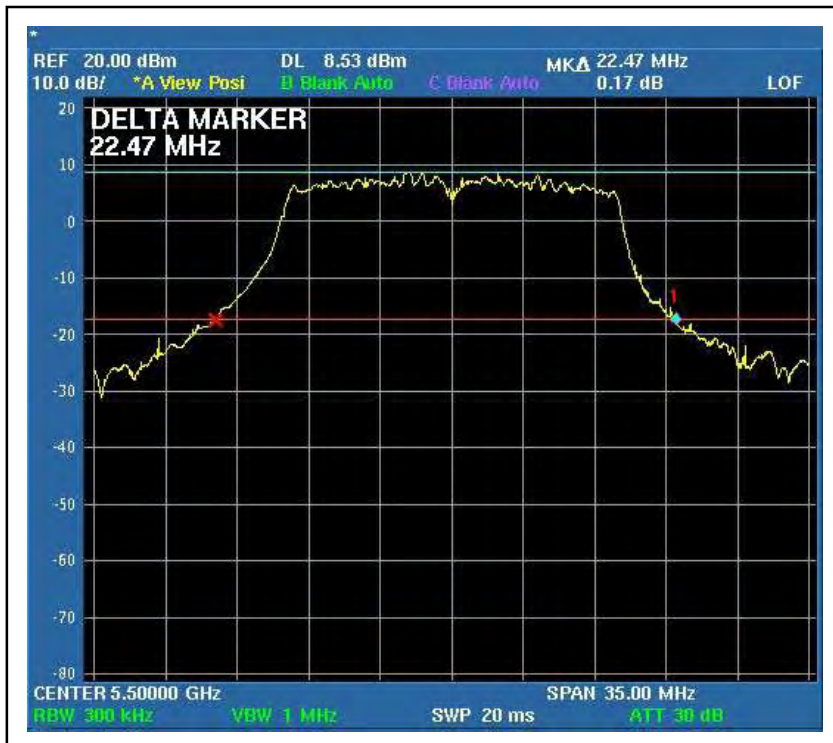
CH5



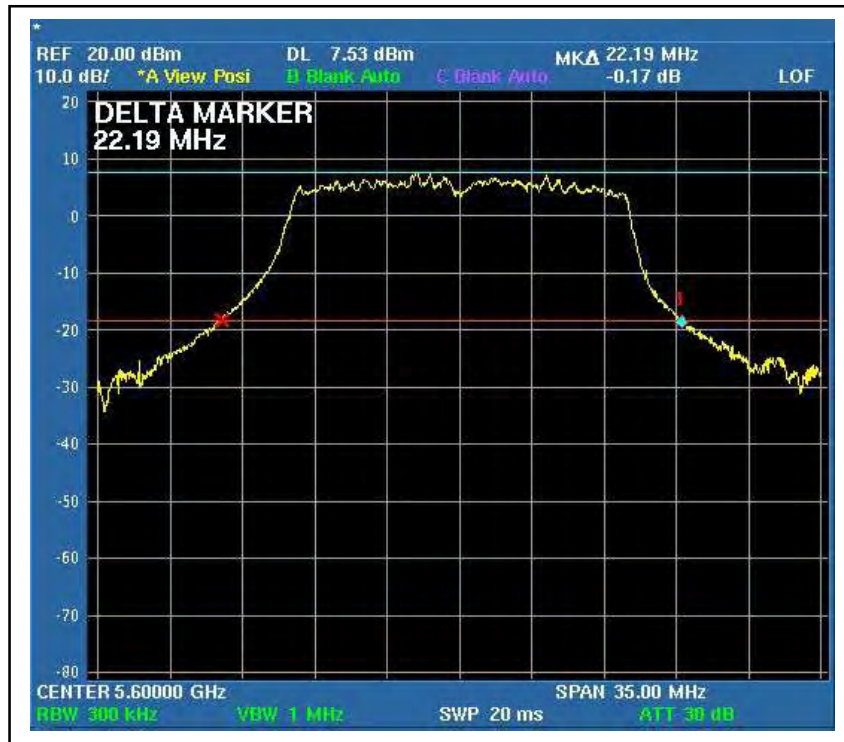
CH8



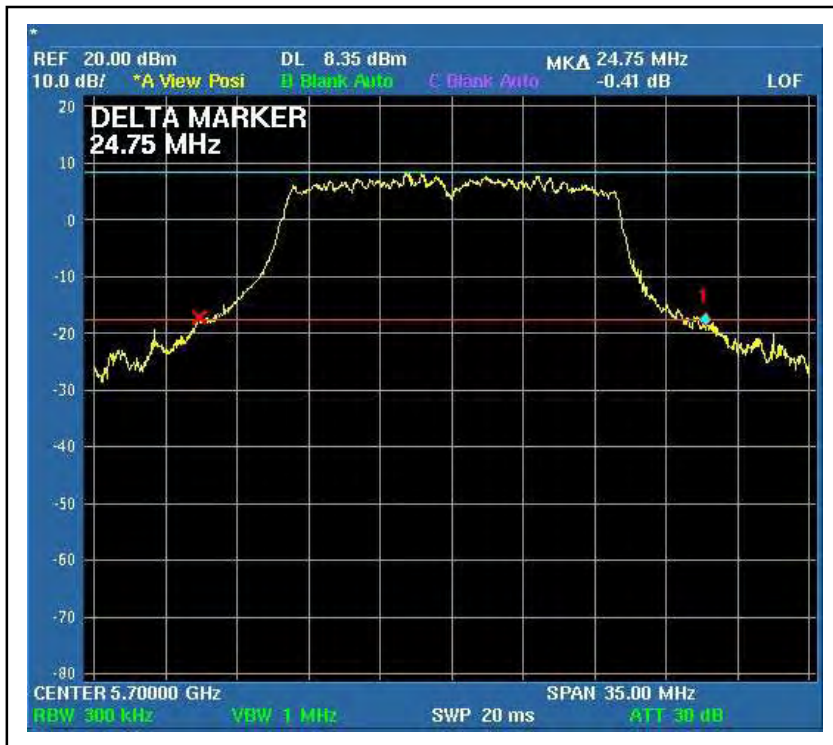
CH9



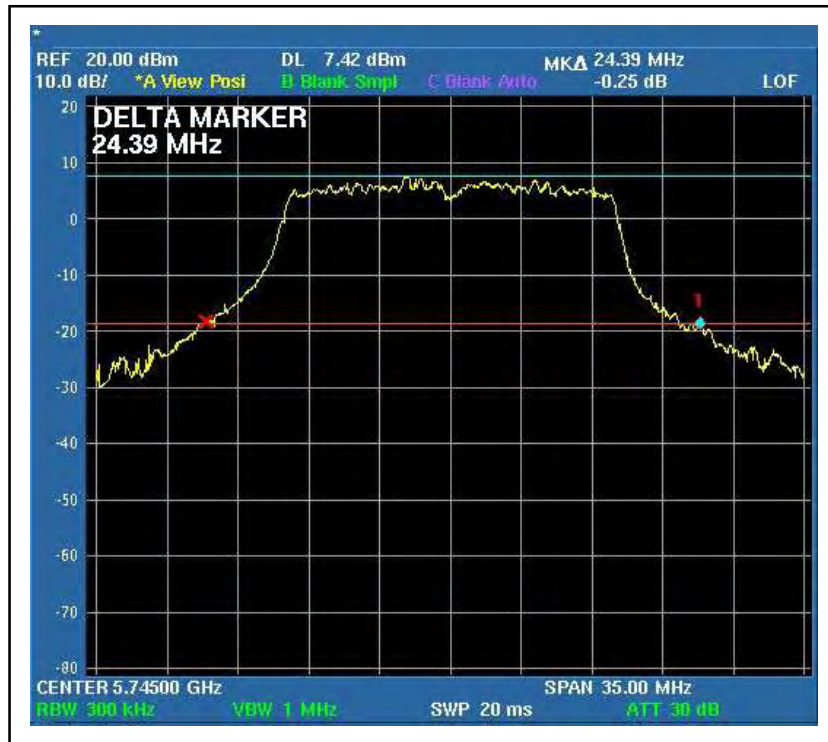
CH14



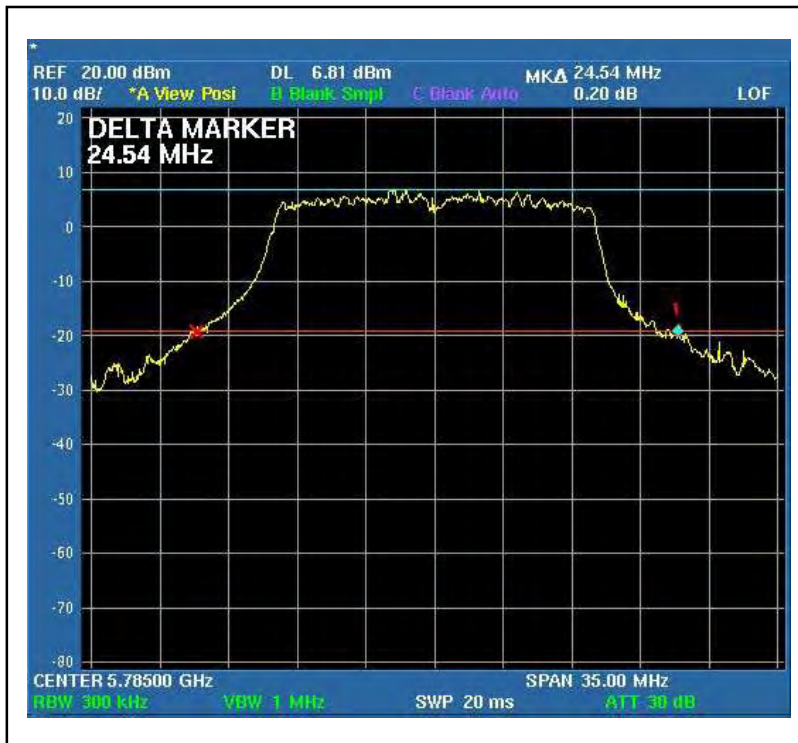
CH19



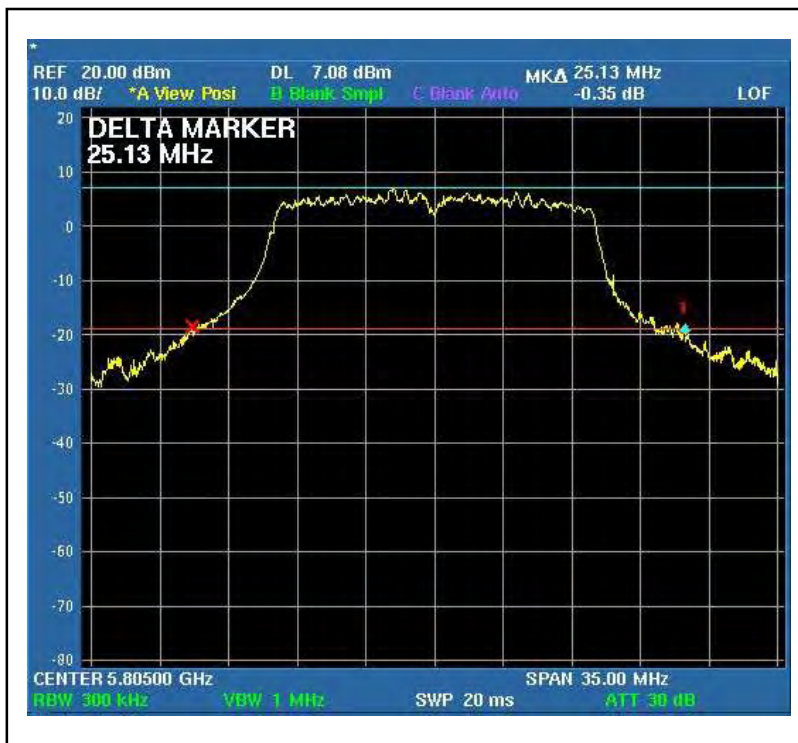
CH20



CH22



CH23





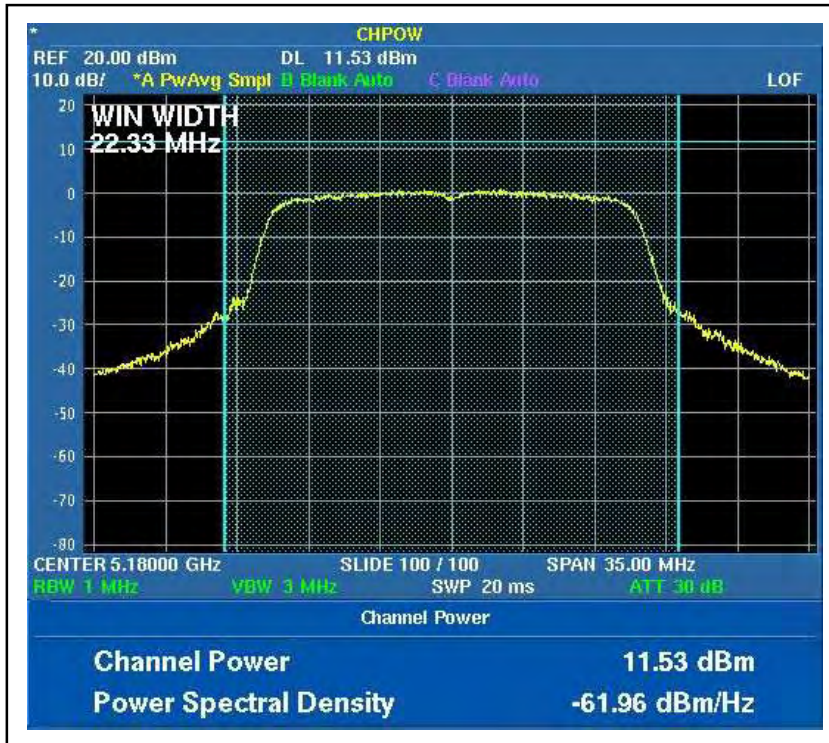
**DRAFT 802.11n (20MHz) OFDM modulation:**

<b>MODULATION TYPE</b>	BPSK	<b>TRANSFER RATE</b>	13Mbps
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>ENVIRONMENTAL CONDITIONS</b>	20deg.C, 60%RH, 971hPa
<b>TESTED BY</b>	Rex Huang		

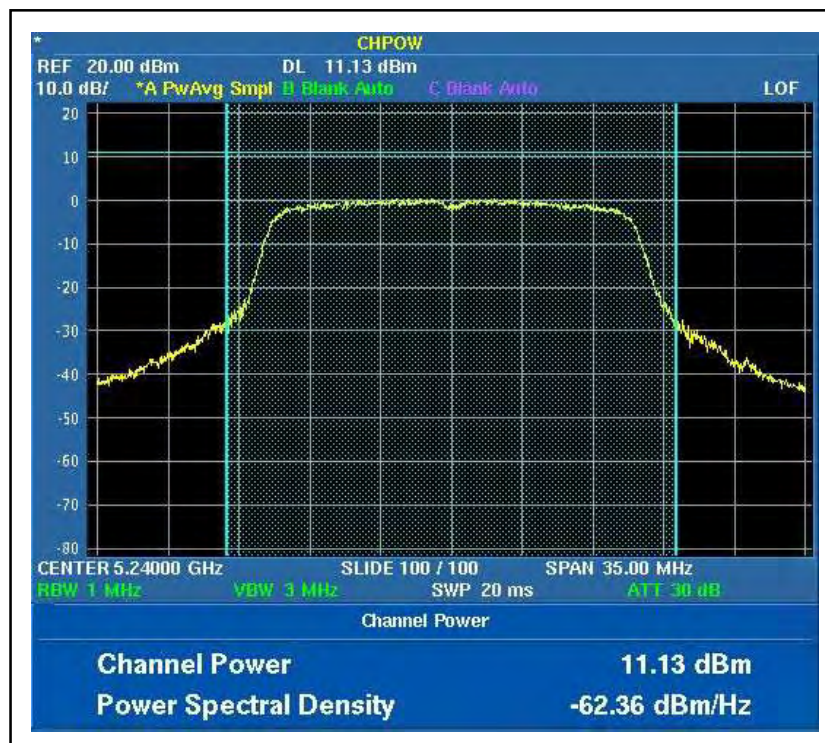
CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)		PEAK POWER OUTPUT (mW)		TOTAL PEAK POWER (dBm)	TOTAL PEAK POWER (mW)	PEAK POWER LIMIT (dBm)	26dBc Occupied Bandwidth (MHz)		PASS/FAIL
		Chain 0	Chain 1	Chain 0	Chain 1				Chain 0	Chain 1	
1	5180	11.53	10.95	14.223	12.445	14.26	26.668	17.00	22.33	23.2	PASS
4	5240	11.13	11.25	12.972	13.335	14.20	26.307	17.00	22.33	23.34	PASS
5	5260	14.45	14.22	27.861	26.424	17.35	54.285	24.00	22.3	23.24	PASS
8	5320	14.44	14.20	27.797	26.303	17.33	54.100	24.00	22.54	23.14	PASS
9	5500	14.16	14.24	26.062	26.546	17.21	52.608	24.00	22.26	23.17	PASS
14	5600	14.11	14.28	25.763	26.792	17.21	52.555	24.00	22.33	23.34	PASS
19	5700	14.40	14.52	27.542	28.314	17.47	55.856	24.00	22.3	23.1	PASS
20	5745	14.27	14.66	26.730	29.242	17.48	55.972	30.00	22.68	23.34	PASS
22	5785	13.48	15.28	22.284	33.729	17.48	56.013	30.00	23.03	23.34	PASS
23	5805	13.53	15.92	22.542	39.084	17.90	61.626	30.00	23.07	23.24	PASS

**NOTE:** The 26dBc Occupied Bandwidth plot, please refer to the following pages.

Peak Power Output:  
For Chain (0) :CH1

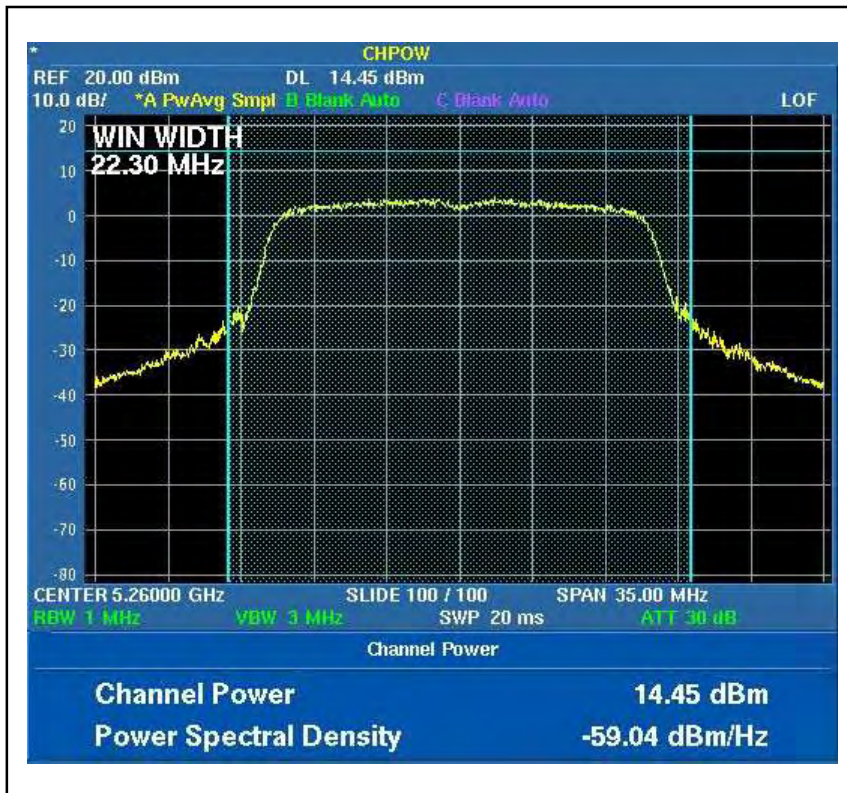


CH4

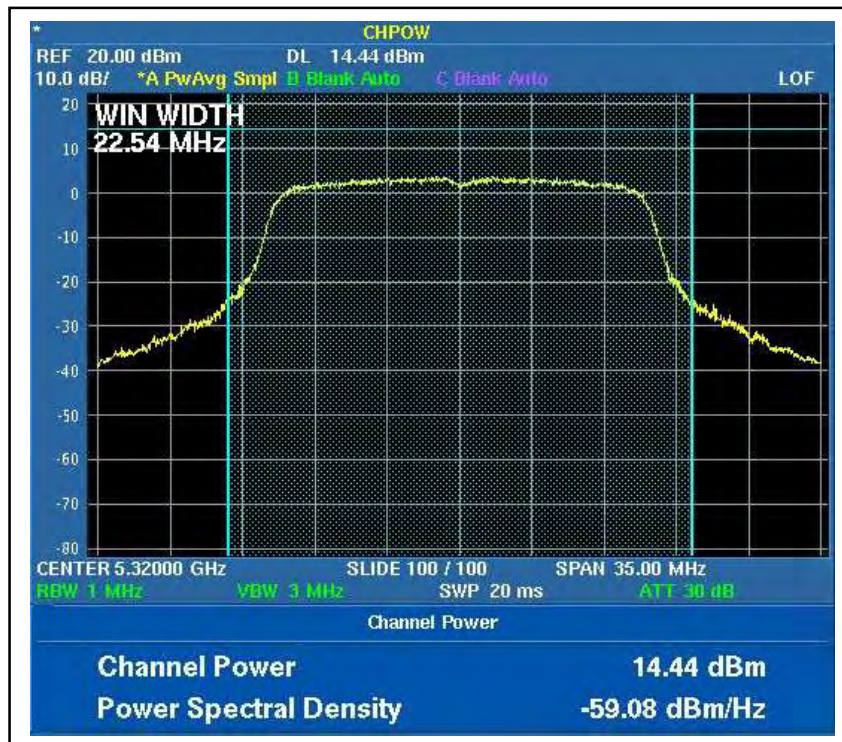




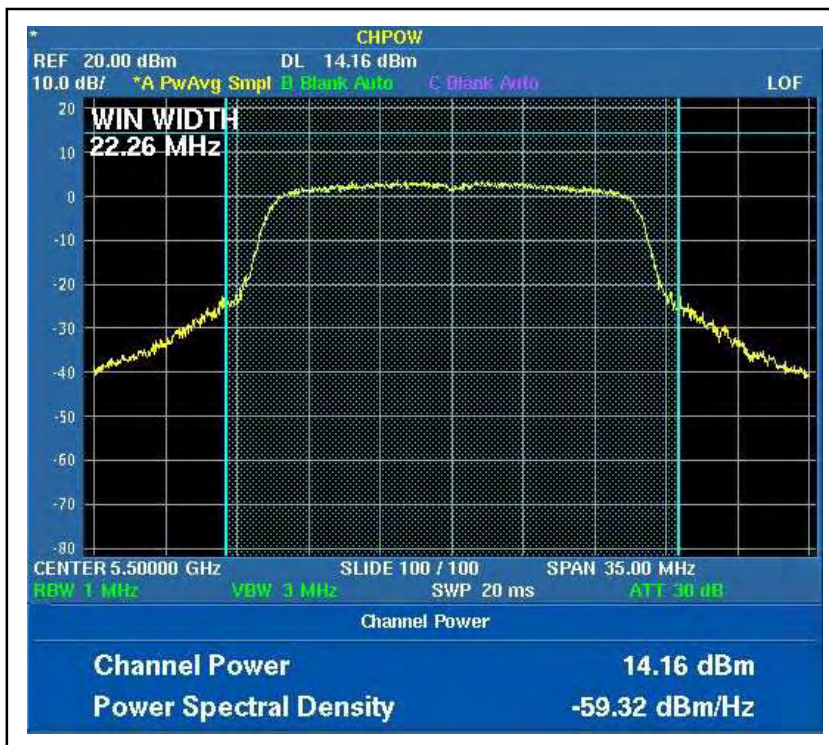
CH5



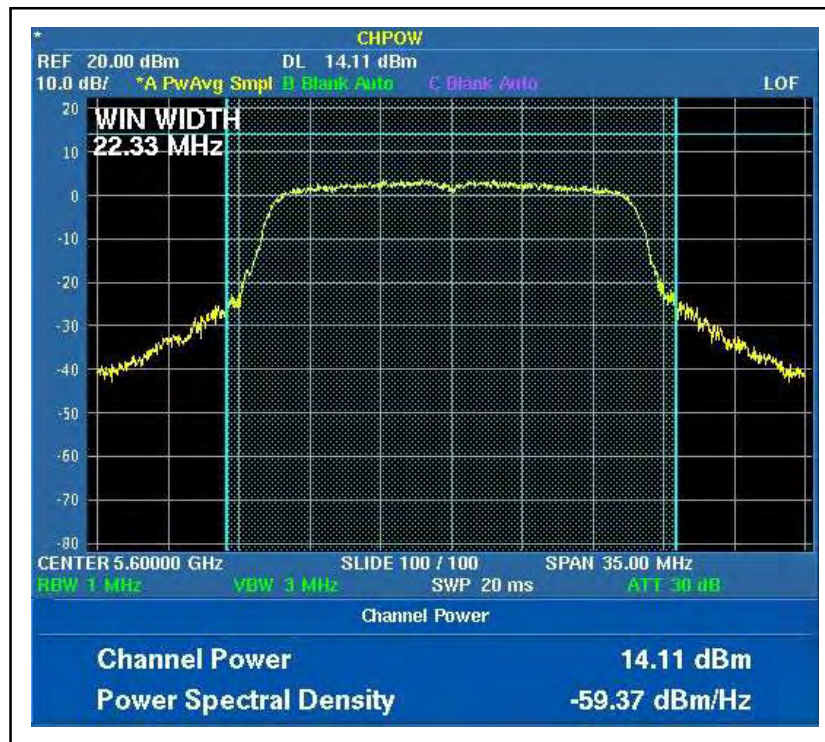
CH8



CH9



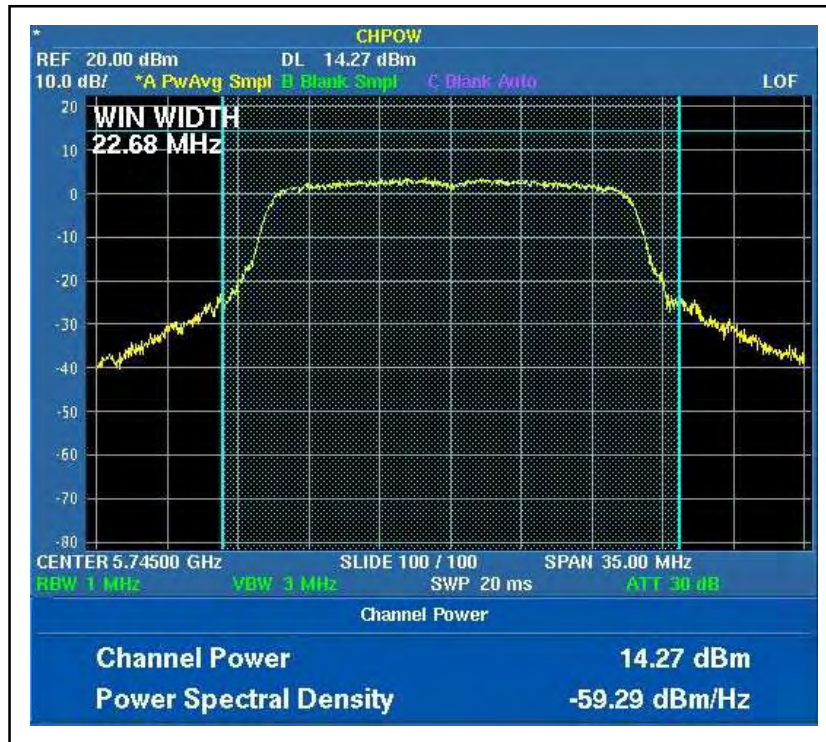
CH14



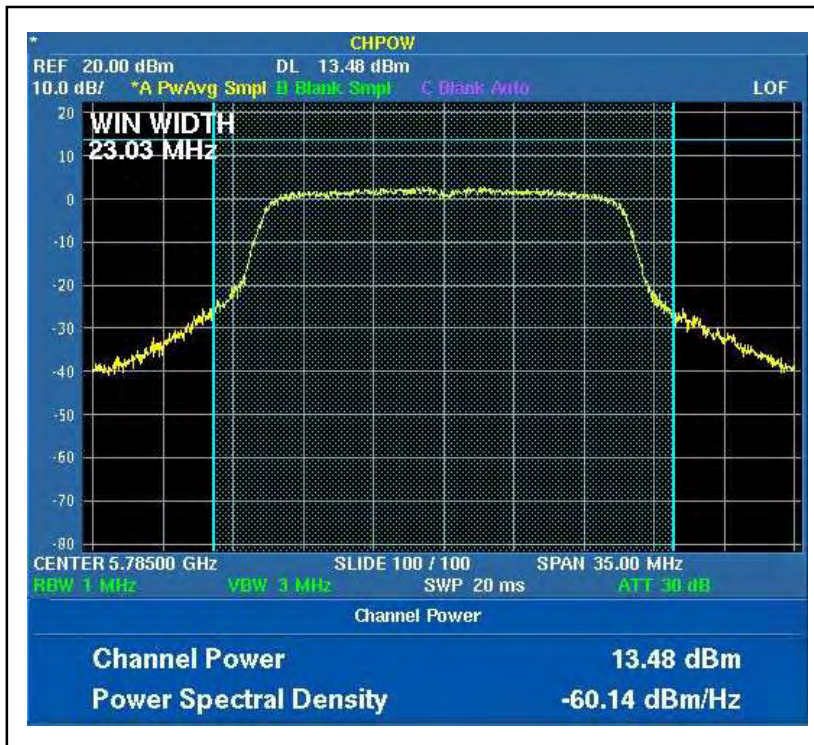
CH19



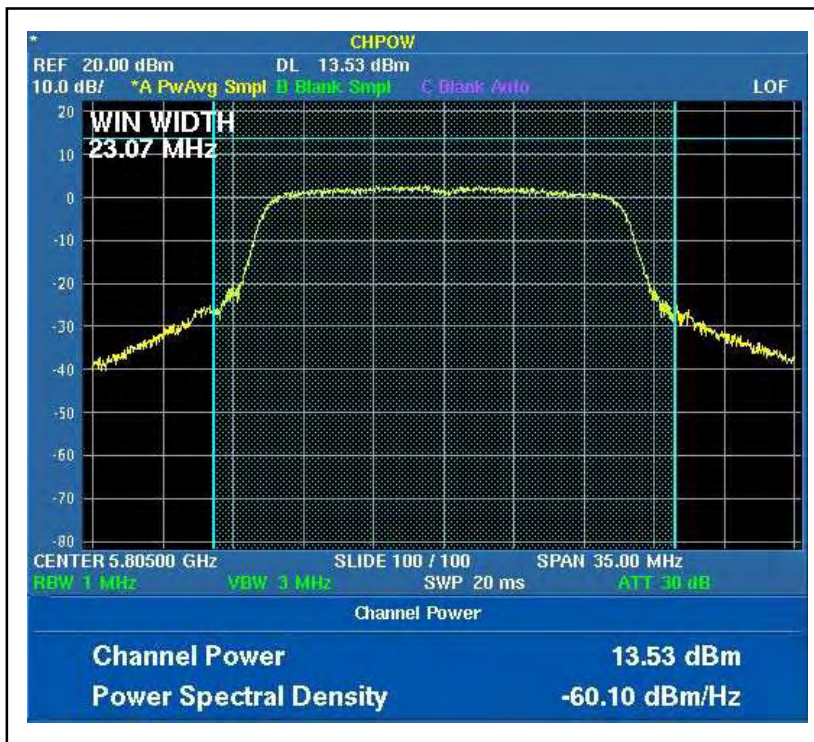
CH20



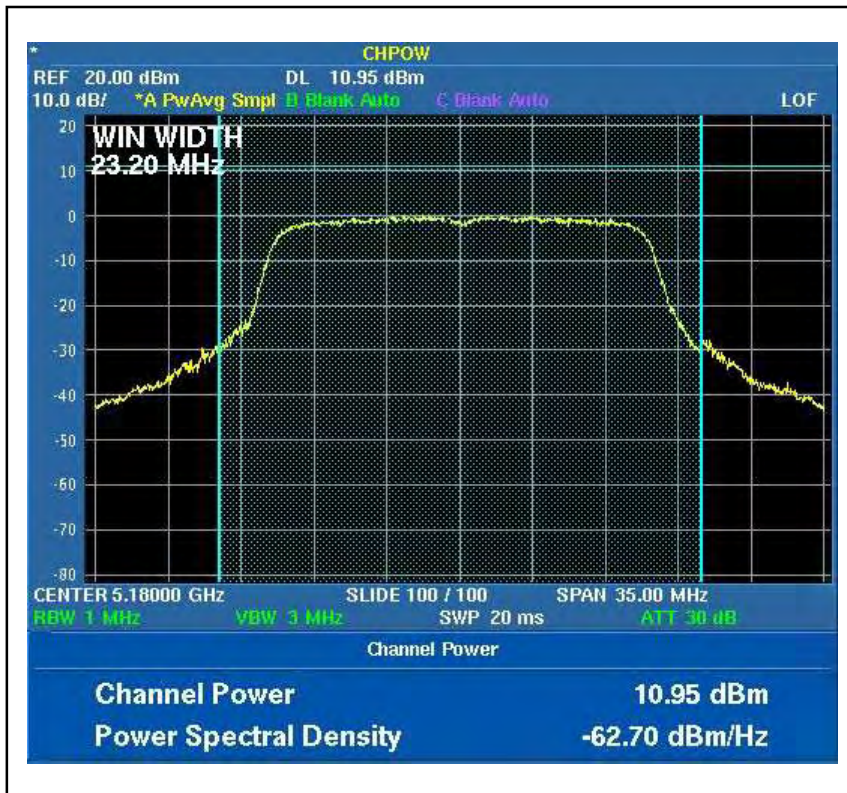
CH22



CH23



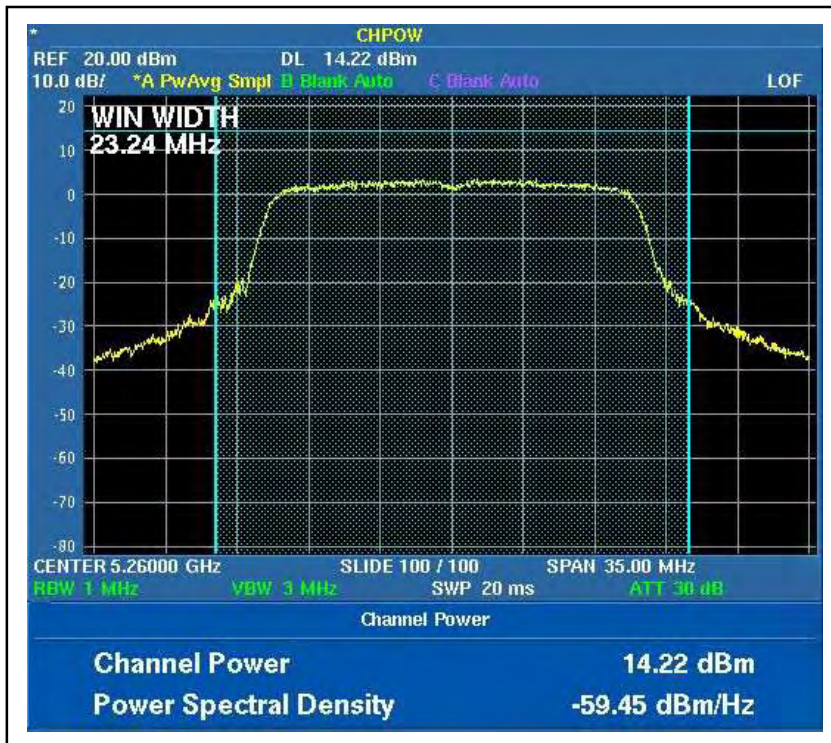
For Chain (1) :CH1



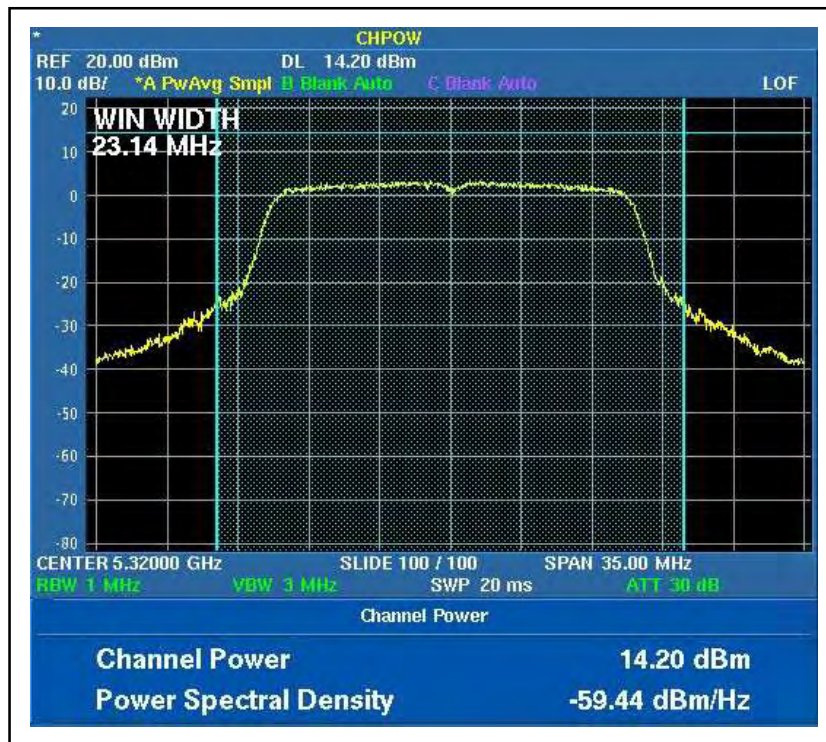
CH4



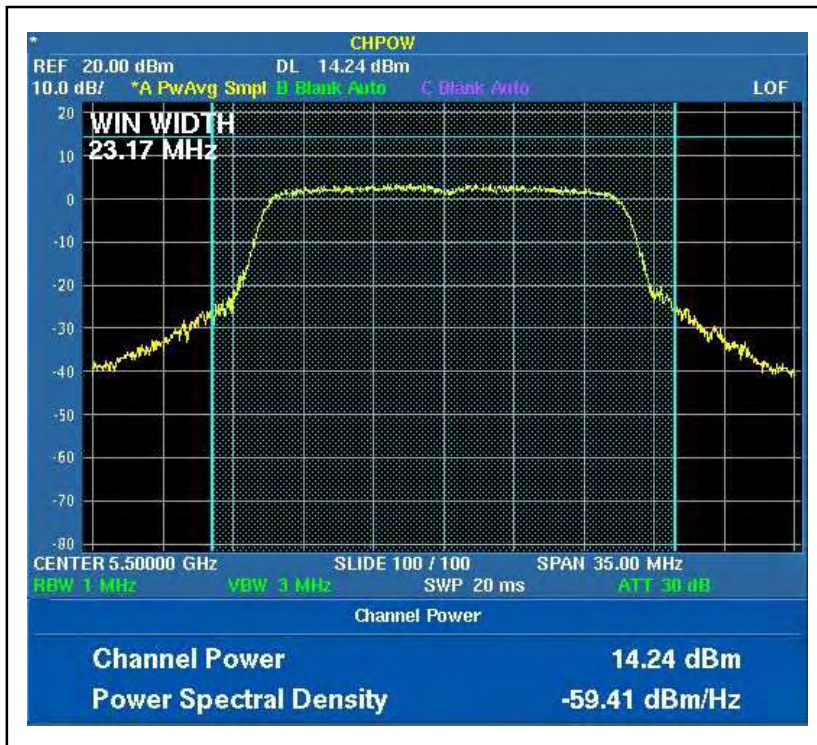
CH5



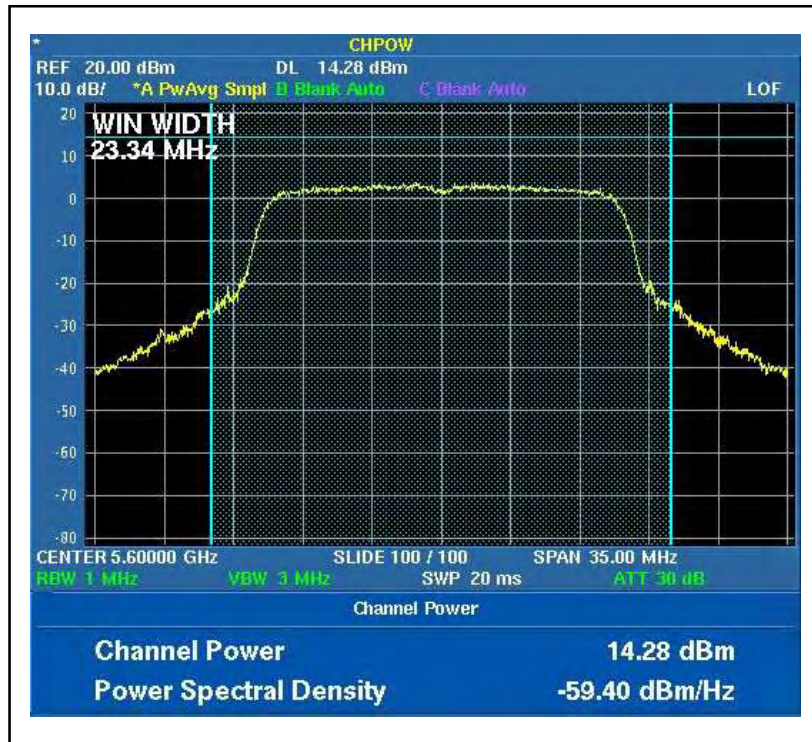
CH8



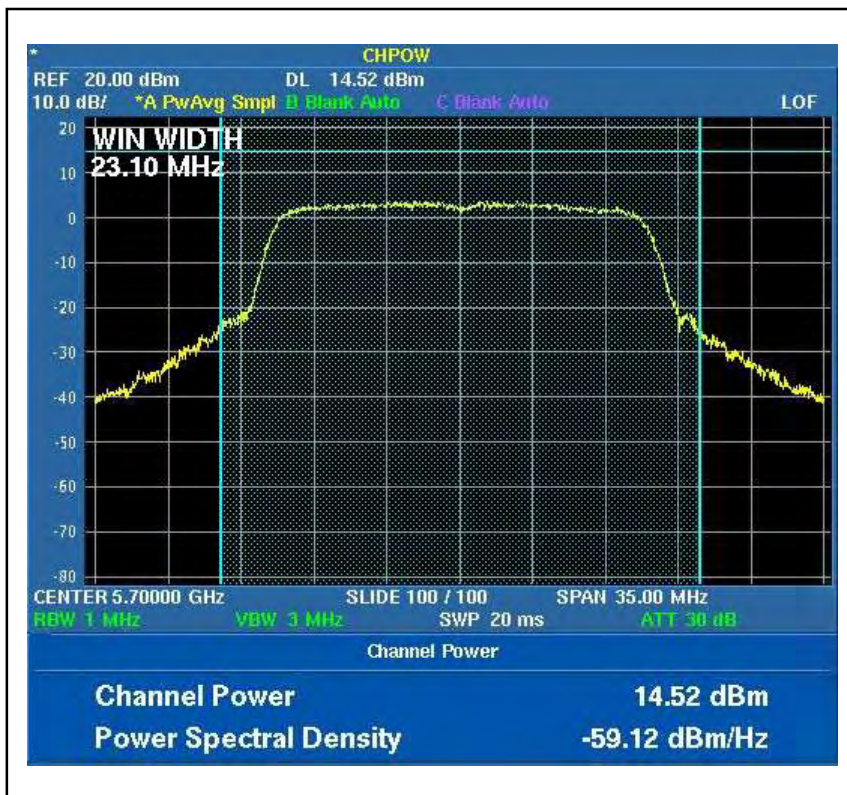
CH9



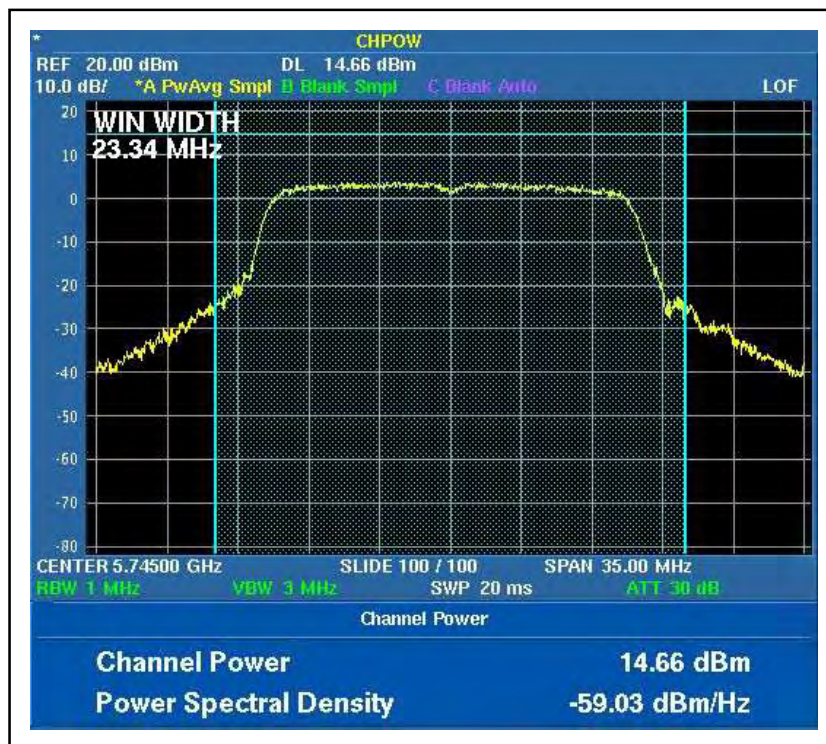
CH14



CH19

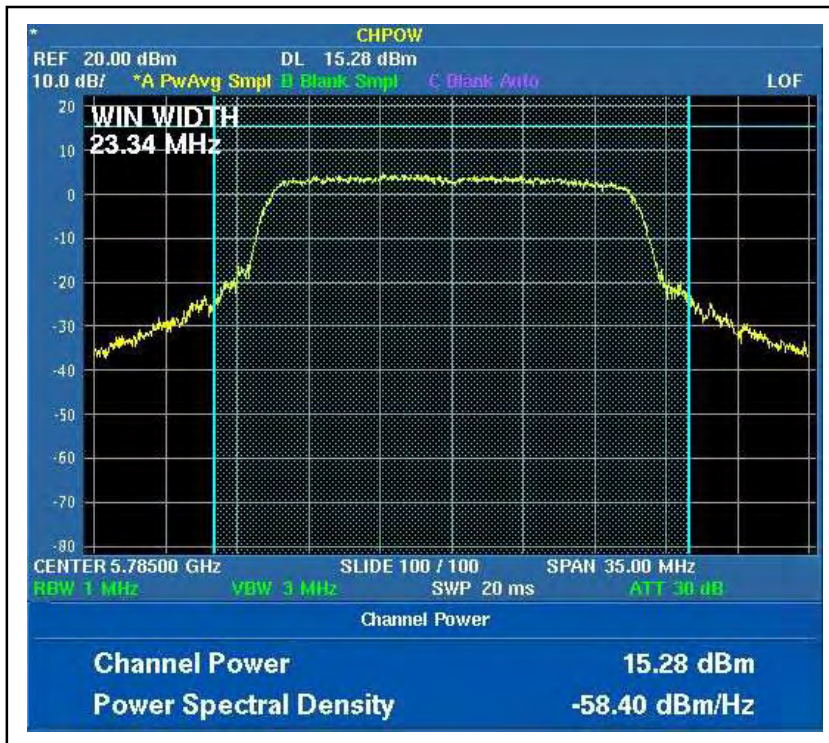


CH20





CH22



CH23

