APPLICATION FOR CERTIFICATION
Class II PERMISSIVE CHANGE

On Behalf of

LG Electronics Inc.

WLAN Adapter Card

Model No.: WN7111B

FCC ID: BEJ9QK-WN7111B

IC: 2703H-WN7111B

Brand: LG

Prepared for : LG Electronics Inc.
19-1, Cheongho-Ri, Jinwuy-Myeon,
Pyeongtaek-City, Gyeonggi-Do, 451-713,
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File Number	:	C1M1208191
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Date of Test	:	Aug. 21 ~ 22, 2012
Date of Report	:	Aug. 28, 2012

TABLE OF CONTENTS

TEST REPORT CERTIFICATION
(Class II Permissive Change)

Applicant	:	LG Electronics Inc.
Manufacturer	:	Compal Networking (Kunshan) Co., Ltd.
EUT Description	:	WLAN Adapter Card
FCC ID	:	**BEJ9QK-WN7111B**
IC	:	**2703H-WN7111B**
	(A) Model No.	: WN7111B
	(B) Serial No.	: N/A
	(C) Brand	: LG
	(D) Power Supply	: DC 5V (Powered by Notebook PC)

Measurement Procedure Used:
FCC Rules and Regulations Part 15 Subpart C, Oct. 2011
(FCC 47 CFR Part 15C, §15.205 and §15.207 and §15.209 and §15.247)
Industry Canada Rules and Regulations RSS-Gen (Issue 2), December 2010 and
RSS-210 (Issue 8), December 2010
(Canada RSS-210 §Annex 8)
AND ANSI C63.4:2003

The device described above was tested by AUDIX Technology Corporation to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart C and Canada RSS-Gen, RSS-210 limits.

The measurement results are contained in this test report and AUDIX Technology Corporation is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the requirements of FCC and Industry Canada RSS-Gen, RSS-210 standards.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX Technology Corporation.

This report is base on report of EM-F1000873.

Date of Test: Aug. 21 ~ 22, 2012 Date of Report: Aug. 28, 2012

Producer: Tina Huang
(Tina Huang/Administrator)

Signatory: Leon Liu
(Leon Liu/Deputy General Manager)

1. DESCRIPTION OF VERSION

Edition No.	Date of Rev.	Revision Summary	Report No.
0	Oct. 18, 2011	Original Report.	EM-F1000873
Rev. A	Aug. 28, 2012	1. To add electric capacity (C55): 0 ohm, 0603. 2. To change Electrical Inductor (L12): SUNTECHNIC, 4.7uH, 2.5x2.0x1.2. 3. To remove two resistances (R98, R99) 4. To add Common Filter (L99): WALSIN, RFCMF1200100M4 5. To update standard from FCC CFR 47 Part 15 Subpart C/Oct. 2010 to FCC CFR 47 Part 15 Subpart C/Oct. 2011. 6. Supplementary test data are recorded in this report.	EM-F1010708

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description	:	WLAN Adapter Card
Model Number	:	WN7111B
Brand	:	LG
FCC ID	:	BEJ9QK-WN7111B
Canada IC	:	2703H-WN7111B
Applicant	:	LG Electronics Inc. 19-1, Cheongho-ri, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, 451-713 Korea
Manufacturer	:	Compal Networking (Kunshan) Co., Ltd. 520 Nanbang Rd., Economic & Technical Development Zone, Kunshan, Jiangsu, P.R. China.
Fundamental Range	:	2400MHz ~ 2483.5MHz
Frequency Channel	:	802.11b/g: 11 channels 802.11n-HT20: 11 channels 802.11n-HT40: 7 channels
Radio Technology	:	802.11b: DSSS Modulation (DBPSK/DQPSK/CCK) 802.11g/n: OFDM Modulation 1T1R, (BPSK/QPSK/16QAM/64QAM)
Data Transfer Rate	:	802.11b: 1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 150Mbps
Antenna Gain	:	1.63dBi (Peak)
Date of Receipt of Sample	:	Aug. 1, 2012
Date of Test	:	Aug. 21 ~ 22, 2012

Information for Class II Permissive:

1. The EUT is an additional version with original FCC ID: BEJ9QK-WN7111B ; IC: 2703H-WN7111B
2. The difference with original report are:
   (a) To add electric capacity (C55): 0 ohm, 0603.
   (b) To change Electrical Inductor (L12): SUNTECHNIC, 4.7uH, 2.5x2.0x1.2.
   (c) To remove resistance (R98, R99)
   (d) To add Common Filter (L99): WALSIN, RFCMF1200100M4
3. The EUT was re-measured with the radiated emission (Transmitting mode) and maximum peak output power measurement, the test data are reported in this report of EM-F1010708.
4. This report is based on report of EM-F1000873

2.2. Data Rate Relative to Output Power

This Table is measured base on low channel.

802.11b			
Channel	Modulation	Date Rate(Mbps)	Power(dBm)
1	DBPSK	1	18.71
1	DQPSK	2	18.68
1	CCK	5.5	18.63
1	CCK	11	18.65

802.11g			
Channel	Modulation	Date Rate(Mbps)	Power(dBm)
1	BPSK	6	14.16
1	BPSK	9	13.92
1	QPSK	12	13.87
1	QPSK	18	13.84
1	16-QAM	24	13.80
1	16-QAM	36	13.75
1	64-QAM	48	13.71
1	64-QAM	54	13.69

802.11n-HT20			
Channel	Modulation	Date Rate(Mbps)	Power(dBm)
1	BPSK	6.5	14.29
1	QPSK	13	14.23
1	QPSK	19.5	14.21
1	16-QAM	26	14.18
1	16-QAM	39	14.17
1	64-QAM	52	14.11
1	64-QAM	58.6	14.08
1	64-QAM	65	14.01

802.11g-HT40			
Channel	Modulation	Date Rate(Mbps)	Power(dBm)
3	BPSK	13.5	11.95
3	QPSK	27	11.89
3	QPSK	40.5	11.86
3	16-QAM	54	11.81
3	16-QAM	81	11.77
3	64-QAM	108	11.72
3	64-QAM	121.5	11.69
3	64-QAM	150	11.63

2.3. Test Configuration for Each Test Item

Test Item	802.11b	802.11g	802.11n-HT20	802.11n-HT40
	Data Rate for Test (Mbps)			
Peak Output Power	1	6	6.5	13.5
Radiated Spurious Emission	1	6	6.5	13.5

2.4. Tested Supporting System Details

2.4.1. NOTEBOOK PC

Model Number	:	PP19S
Serial Number	:	8285
FCC ID	:	MCLBCM92046
BSMI ID	:	R33002
Brand	:	DELL
AC Adapter	:	M/N:AD6513 DC Cord: Non-Shielded, Undetachable, 2.4m
USB Cable	:	Non-Shielded, Detachable, 0.25m
Power Cord	:	Non-Shielded, Detachable, 1.8m

2.5. Description of Test Facility

Name of Firm	:	**AUDIX Technology Corporation** **EMC Department** No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan, R.O.C.
Test Location & Facility (AC)	:	**Semi-Anechoic Chamber** No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan, R.O.C. May 14, 2009 Renewal on Federal Communication Commission Registration Number: 90993
NVLAP Lab. Code	:	200077-0
TAF Accreditation No	:	1724

2.6. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Radiation Test (Distance: 3m)	30MHz~300MHz	± 2.91dB
	300MHz~1000MHz	± 2.74dB
	Above 1GHz	± 5.02dB

Remark：Uncertainty = $ku_c(y)$

Test Item	Uncertainty
Maximum peak output power	± 0.33dBm

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

The following test equipment was used during the radiated emission measurement:

3.1.1. For Frequency Range 30MHz~1000MHz (at Semi-Anechoic Chamber)

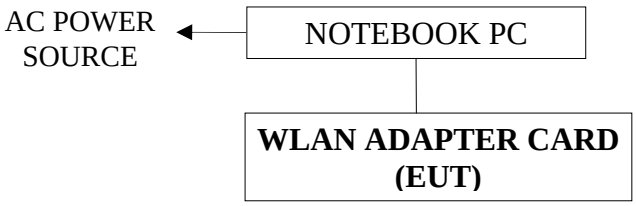
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 07, 12’	Aug. 06, 13’
2.	Test Receiver	R & S	ESCS30	100339	Mar. 08, 12’	Mar. 07, 13’
3.	Amplifier	HP	8447D	2944A06305	Feb. 13, 12’	Feb. 12, 13’
4.	Log Periodic Antenna	Schwarzbeck	UHALP 9108-A	0810	Mar. 03, 12’	Mar. 02, 13’
5.	Biconical Antenna	CHASE	VBA6106A	1264	Mar. 03, 12’	Mar. 02, 13’

3.1.2. For Frequency Above 1GHz (at Semi-Anechoic Chamber)

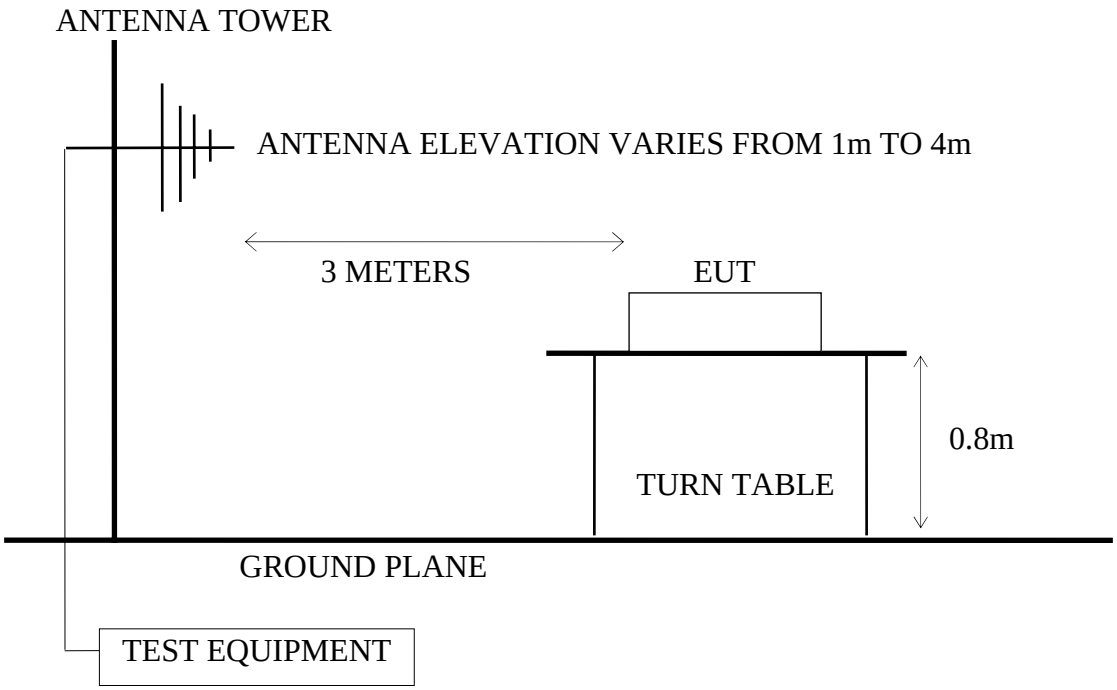
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 07, 12’	Aug. 06, 13’
2.	Test Receiver	R & S	ESCS30	100339	Mar. 08, 12’	Mar. 07, 13’
3.	Amplifier	HP	8449B	3008A00529	Dec. 09, 11’	Dec. 08, 12’
4.	Horn Antenna	EMCO	3115	9112-3775	May 09, 12’	May 08, 13’
5.	Horn Antenna	EMCO	3116	2653	Oct. 07, 11’	Oct. 06, 12’
6.	2.4GHz Notch Filter	EWT	EWT-14-0070-R1	G2	Dec. 05, 11’	Dec. 04, 12’
7.	3.5GHz High Pass Filter	HP	84300-80038	005	Jan. 04, 12’	Jan. 03, 13’

3.2. Test Setup

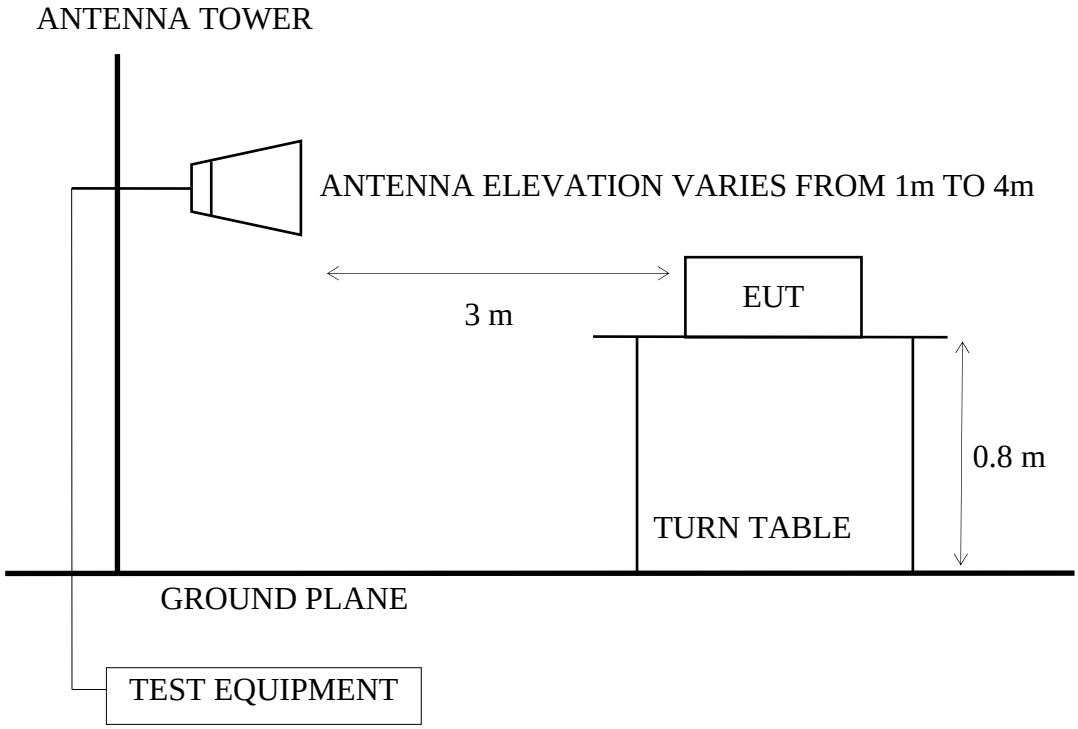
3.2.1. Block Diagram of connection between EUT and simulators



3.2.2. Semi-Anechoic Chamber (3m) Setup Diagram for 30-1000MHz



3.2.3. Semi-Anechoic Chamber (3m) Setup Diagram for above 1GHz



3.3. Radiated Emission Limits (§15.209, RSS-210 §2.7/Table 2)

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMITS	
		μV/m	dBμV/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
Above 1000	3	74.0 dBμV/m (Peak) 54.0 dBμV/m (Average)	

Remark：(1) Emission level (dBμV/m) = 20 log Emission level (μV/m)
(2) The tighter limit applies at the edge between two frequency bands.
(3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
(4) The limits in this table are based on CFR 47 Part 15.205(a)(b) and Part 15.209 (a).
(5) The over 1GHz limit, FCC limit is used based on CFR 47 Part 15.35 (b) and Part 15.205(b) & Part 15.209(e) and Part 15.207(c).

3.4. Operating Condition of EUT

3.4.1. Set up the EUT (WLAN Adapter Card) via Notebook PC and simulator as shown on 3.2.

3.4.2. To turn on the power of all equipments.

3.4.3. The EUT was set the Notebook PC using test program “QA Tool”.

3.4.4. The EUT supports 802.11b/g/n-HT20/n-HT40 modes, we performed pre-scan high, middle, low channels for each mode for spurious emission and listed the worst channel of each mode in test report.

The worst channel of each mode as following:

Mode	Type of Network	Channel
1.	802.11b	CH 1
2.	802.11g	CH 11
3.	802.11n-HT20	CH 1
4.	802.11n-HT40	CH 6

3.5. Test Procedure

The EUT and its simulators were placed on a turn table which was 0.8 meter above the ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT was set 3 meters away from the receiving antenna which was mounted on an antenna tower. The antenna moved up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna such as calibrated biconical and log-periodical antenna or horn antenna were used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4-2003, RSS-Gen and RSS-210 regulation.

The bandwidth of the R&S Test Receiver was set at 120kHz. (For 30MHz to 1000MHz)

The resolution bandwidth and video bandwidth of test spectrum analyzer is 1MHz for peak detection (PK) at frequency above 1GHz.

The resolution bandwidth of test spectrum analyzer is 1MHz and the video bandwidth is 10Hz for average detection (AV) at frequency above 1GHz.

The frequency range from 30MHz to 25GHz (Up to 10^{th} harmonics from fundamental frequency) was checked. 30MHz to 1000MHz was measured with Quasi-Peak detector.

Above 1GHz was measured with peak and average detector. For frequency from 1GHz to 25GHz, we checked it in 1 meter distance and with a shorter cable 2 meter instead of original's. There is no signal exist.

Pursuant to ANSI C63.4 8.3.1.2, when peak value complies with the average limit, we didn't perform measurement in average detector.

3.6. Test Results

PASSED.
(All emissions not reported below are too low against the prescribed limits.)

EUT：WLAN Adapter Card M/N：WN7111B

Test Date：Aug. 22, 2012 Temperature：26℃ Humidity：61%

For Frequency Range 30MHz~1000MHz:

The EUT with following test modes were performed during this section testing and all the test results are listed in section 3.6.1.

Mode	Type of Network	Channel	Frequency	Test Mode	Reference Test Data	
					Horizontal	Vertical
1.	802.11b	CH 1	2412MHz	Transmit	# 2	# 1
2.	802.11g	CH 11	2462MHz		# 2	# 1
3.	802.11n-HT20	CH 1	2412MHz		# 2	# 1
4.	802.11n-HT40	CH 6	2437MHz		# 2	# 1

* Above all final readings were measured with Quasi-Peak detector.

For Frequency above 1GHz:

The EUT with following test modes was performed during this section testing and all the test results are listed in section 3.6.2.

Mode	Type of Network	Channel	Frequency	Test Mode	Reference Test Data			
					Horizontal		Vertical	
					Peak	Average	Peak	Average
1.	802.11b	CH 1	2412MHz	Transmit	# 4	--(Note2)	# 3	--(Note2)
2.	802.11g	CH 11	2462MHz		# 4	--(Note2)	# 3	--(Note2)
3.	802.11n-HT20	CH 1	2412MHz		# 4	--(Note2)	# 3	--(Note2)
4.	802.11n-HT40	CH 6	2437MHz		# 4	--(Note2)	# 3	--(Note2)

Note: 1. Above all final readings were measured with Peak and Average detector.
2. For measurements above 1GHz to 2.68GHz or 2.68GHz-4GHz, the peak measured value complies with the average limit, it is unnecessary to perform an average measurement. (According to ANSI C63.4-2003 section 8.3.1.2)
3. The emissions (up to 25GHz) not reported are too low to be measured.

For Restricted Bands:

The EUT was tested in restricted bands and all the test results are listed in section 3.6.4. (The restricted bands defined in part 15.205(a))

Mode	Type of Network	Channel	Frequency	Test Mode	Reference Test Data	
					Horizontal	Vertical
1.	802.11b	CH 6	2412MHz	Transmit	# 3, # 4	# 1, # 2
2.		CH 11	2462MHz		# 7, # 8	# 5, # 6
3.	802.11g	CH 6	2412MHz	Transmit	# 3, # 4	# 1, # 2
4.		CH 11	2462MHz		# 7, # 8	# 5, # 6
5.	802.11n-HT20	CH 6	2412MHz	Transmit	# 3, # 4	# 1, # 2
6.		CH 11	2462MHz		# 7, # 8	# 5, # 6
7.	802.11n-HT40	CH 3	2422MHz	Transmit	# 3, # 4	# 1, # 2
8.		CH 9	2452MHz		# 7, # 8	# 5, # 6

3.6.1. For 30-1000MHz Frequency Range Measurement Results

802.11b, Transmit, Frequency: 2412MHz

```
Site no.      : A/C Chamber                  Data no.  : 2
Dis. / Ant.   : 3m   VBA6106A/UHALP9108A     Ant. pol. : HORIZONTAL
Limit         : FCC PART-15C
Env. / Ins.   : E4446A 26℃/61%                          □jianlun_hung
EUT           : WN7111B
Power Rating  : DC5V
Test Mode     : TX2412(802.11b)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	121.180	19.15	2.30	3.29	24.75	43.50	18.75	QP
2	194.900	21.77	3.00	12.94	37.72	43.50	5.78	QP
3	289.960	26.08	3.80	0.29	30.17	46.00	15.83	QP
4	360.770	16.24	4.43	5.65	26.32	46.00	19.68	QP
5	793.390	23.98	6.90	1.48	32.36	46.00	13.64	QP
6	840.920	25.08	7.10	-0.91	31.26	46.00	14.74	QP
7	963.140	26.63	7.60	1.07	35.30	54.00	18.70	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

```
Site no.      : A/C Chamber                  Data no.  : 1
Dis. / Ant.   : 3m   VBA6106A/UHALP9108A     Ant. pol. : VERTICAL
Limit         : FCC PART-15C
Env. / Ins.   : E4446A 26℃/61%                          □jianlun_hung
EUT           : WN7111B
Power Rating  : DC5V
Test Mode     : TX2412(802.11b)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	192.960	21.66	3.00	4.78	29.43	43.50	14.07	QP
2	360.770	16.24	4.43	7.27	27.94	46.00	18.06	QP
3	408.300	17.28	4.90	6.94	29.12	46.00	16.88	QP
4	486.870	18.67	6.20	2.96	27.83	46.00	18.17	QP
5	967.990	26.90	7.69	-0.25	34.34	54.00	19.66	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

802.11g, Transmit, Frequency: 2462MHz

```
Site no.      : A/C Chamber                  Data no.  : 2
Dis. / Ant.   : 3m   VBA6106A/UHALP9108A     Ant. pol. : HORIZONTAL
Limit         : FCC PART-15C
Env. / Ins.   : E4446A 26℃/61%                          □jianlun_hung
EUT           : WN7111B
Power Rating  : DC5V
Test Mode     : TX2462(802.11g)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	120.210	19.08	2.30	0.09	21.47	43.50	22.03	QP
2	192.960	21.66	3.00	11.83	36.49	43.50	7.01	QP
3	360.770	16.24	4.43	4.70	25.37	46.00	20.63	QP
4	850.620	25.63	7.10	-1.15	31.58	46.00	14.42	QP
5	963.140	26.63	7.60	-0.71	33.52	54.00	20.48	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

```
Site no.      : A/C Chamber                  Data no.  : 1
Dis. / Ant.   : 3m   VBA6106A/UHALP9108A     Ant. pol. : VERTICAL
Limit         : FCC PART-15C
Env. / Ins.   : E4446A 26℃/61%                          □jianlun_hung
EUT           : WN7111B
Power Rating  : DC5V
Test Mode     : TX2462(802.11g)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	120.210	19.08	2.30	-0.83	20.55	43.50	22.95	QP
2	192.960	21.66	3.00	2.79	27.44	43.50	16.06	QP
3	360.770	16.24	4.43	4.97	25.64	46.00	20.36	QP
4	408.300	17.28	4.90	5.73	27.91	46.00	18.09	QP
5	793.390	23.98	6.90	-0.87	30.01	46.00	15.99	QP
6	967.990	26.90	7.69	-0.37	34.22	54.00	19.78	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

802.11n-HT20, Transmit, Frequency: 2412MHz

```
Site no.      : A/C Chamber                 Data no.  : 2
Dis. / Ant.   : 3m   VBA6106A/UHALP9108A    Ant. pol. : HORIZONTAL
Limit         : FCC PART-15C
Env. / Ins.   : E4446A 26℃/61%                        □jianlun_hung
EUT           : WN7111B
Power Rating  : DC5V
Test Mode     : TX2412(802.11n-HT20)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	120.210	19.08	2.30	1.52	22.90	43.50	20.60	QP
2	168.710	20.99	2.80	4.69	28.49	43.50	15.01	QP
3	192.960	21.66	3.00	12.66	37.31	43.50	6.19	QP
4	749.740	23.25	6.70	0.69	30.64	46.00	15.36	QP
5	964.110	26.80	7.60	-1.49	32.91	54.00	21.09	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

```
Site no.      : A/C Chamber                 Data no.  : 1
Dis. / Ant.   : 3m   VBA6106A/UHALP9108A    Ant. pol. : VERTICAL
Limit         : FCC PART-15C
Env. / Ins.   : E4446A 26℃/61%                        □jianlun_hung
EUT           : WN7111B
Power Rating  : DC5V
Test Mode     : TX2412(802.11n-HT20)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	166.770	20.96	2.70	1.27	24.93	43.50	18.57	QP
2	360.770	16.24	4.43	2.76	23.43	46.00	22.57	QP
3	408.300	17.28	4.90	4.97	27.15	46.00	18.85	QP
4	793.390	23.98	6.90	-1.67	29.21	46.00	16.79	QP
5	961.200	26.50	7.60	-3.11	30.99	54.00	23.01	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

802.11n-HT40, Transmit, Frequency: 2437MHz

Site no. : A/C Chamber Data no. : 2
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
Limit : FCC PART-15C
Env. / Ins. : E4446A 26℃/61% □jianlun_hung
EUT : WN7111B
Power Rating : DC5V
Test Mode : TX2437(802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	120.210	19.08	2.30	-3.29	18.09	43.50	25.41	QP
2	168.710	20.99	2.80	5.27	29.07	43.50	14.43	QP
3	217.210	21.90	3.20	0.07	25.17	46.00	20.83	QP
4	360.770	16.24	4.43	4.99	25.66	46.00	20.34	QP
5	793.390	23.98	6.90	-1.34	29.54	46.00	16.46	QP
6	967.020	26.92	7.70	-2.39	32.23	54.00	21.77	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber Data no. : 1
Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
Limit : FCC PART-15C
Env. / Ins. : E4446A 26℃/61% □jianlun_hung
EUT : WN7111B
Power Rating : DC5V
Test Mode : TX2437(802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	360.770	16.24	4.43	6.61	27.28	46.00	18.72	QP
2	408.300	17.28	4.90	3.67	25.85	46.00	20.15	QP
3	793.390	23.98	6.90	-2.69	28.19	46.00	17.81	QP
4	963.140	26.63	7.60	-1.97	32.26	54.00	21.74	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

3.6.2. For Above 1GHz Frequency Range Measurement Results

802.11b, Transmit, Frequency: 2412MHz

```
Site no.      : A/C Chamber                 Data no.  : 4
Dis. / Ant.   : 3m   3115(4927)             Ant. pol. : HORIZONTAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : E4446A 26℃/61%                        □jianlun_hung
EUT           : WN7111B
Power Rating  : DC5V
Test Mode     : TX2412(802.11b)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1196.560	24.88	4.58	16.90	46.36	54.00	7.64	Peak
2	1599.760	26.08	6.14	17.36	49.57	54.00	4.43	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

```
Site no.      : A/C Chamber                 Data no.  : 3
Dis. / Ant.   : 3m   3115(4927)             Ant. pol. : VERTICAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : E4446A 26℃/61%                        □jianlun_hung
EUT           : WN7111B
Power Rating  : DC5V
Test Mode     : TX2412(802.11b)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1196.560	24.88	4.58	16.39	45.85	54.00	8.15	Peak
2	1611.520	26.14	6.21	17.58	49.93	54.00	4.07	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

802.11g, Transmit, Frequency: 2462MHz

```
Site no.      : A/C Chamber                 Data no.  : 4
Dis. / Ant.   : 3m   3115(4927)             Ant. pol. : HORIZONTAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : E4446A 26℃/61%                        □jianlun_hung
EUT           : WN7111B
Power Rating  : DC5V
Test Mode     : TX2462(802.11g)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1199.920	24.88	4.59	14.37	43.84	54.00	10.16	Peak
2	1594.720	26.08	6.12	16.70	48.91	54.00	5.09	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

```
Site no.      : A/C Chamber                 Data no.  : 3
Dis. / Ant.   : 3m   3115(4927)             Ant. pol. : VERTICAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : E4446A 26℃/61%                        □jianlun_hung
EUT           : WN7111B
Power Rating  : DC5V
Test Mode     : TX2462(802.11g)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1191.520	24.83	4.56	13.63	43.02	54.00	10.98	Peak
2	1594.720	26.08	6.12	18.93	51.14	54.00	2.86	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

802.11n-HT20, Transmit, Frequency: 2412MHz

```
Site no.      : A/C Chamber                 Data no.  : 4
Dis. / Ant.   : 3m   3115(4927)             Ant. pol. : HORIZONTAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : E4446A 26℃/61%                        □jianlun_hung
EUT           : WN7111B
Power Rating  : DC5V
Test Mode     : TX2412(802.11n-HT20)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1196.560	24.88	4.58	14.99	44.45	54.00	9.55	Peak
2	1591.360	26.08	6.09	14.81	46.98	54.00	7.02	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

```
Site no.      : A/C Chamber                 Data no.  : 3
Dis. / Ant.   : 3m   3115(4927)             Ant. pol. : VERTICAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : E4446A 26℃/61%                        □jianlun_hung
EUT           : WN7111B
Power Rating  : DC5V
Test Mode     : TX2412(802.11n-HT20)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1196.560	24.88	4.58	18.34	47.80	54.00	6.20	Peak
2	1599.760	26.08	6.14	19.88	52.09	54.00	1.91	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

802.11n-HT40, Transmit, Frequency: 2437MHz

```
Site no.      : A/C Chamber                 Data no.  : 4
Dis. / Ant.   : 3m   3115(4927)             Ant. pol. : HORIZONTAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : E4446A 26℃/61%                        □jianlun_hung
EUT           : WN7111B
Power Rating  : DC5V
Test Mode     : TX2437(802.11n-HT40)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1194.880	24.83	4.57	17.71	47.11	54.00	6.89	Peak
2	1594.720	26.08	6.12	15.69	47.90	54.00	6.10	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

```
Site no.      : A/C Chamber                 Data no.  : 3
Dis. / Ant.   : 3m   3115(4927)             Ant. pol. : VERTICAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : E4446A 26℃/61%                        □jianlun_hung
EUT           : WN7111B
Power Rating  : DC5V
Test Mode     : TX2437(802.11n-HT40)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	1196.560	24.88	4.58	16.85	46.31	54.00	7.69	Peak
2	1598.080	26.08	6.12	14.99	47.20	54.00	6.80	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

3.6.3. Restricted Bands Measurement Results

Date of Test：	Aug. 22, 2012	Temperature：	26℃
EUT：	WLAN Adapter Card	Humidity：	61%
Test Mode：	802.11b, Transmit, Channel: 01, Frequency: 2412MHz		

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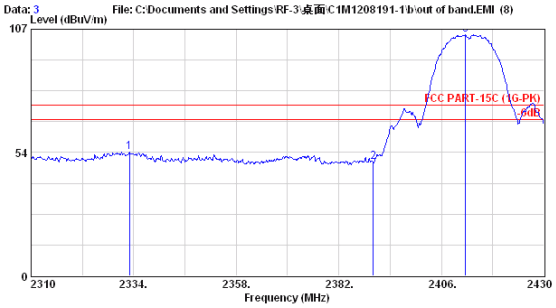

Site no. : A/C Chamber Data no. : 3
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 26℃/61% □jianlun_hung
EUT : WN7111B
Power Rating : DC5V
Test Mode : TX2412(802.11b)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2333.040	28.32	6.27	19.01	53.60	74.00	20.40	Peak
2	2390.040	28.47	6.34	14.58	49.40	74.00	24.60	Peak
3	2411.640	28.51	6.36	69.70	104.58	74.00	-30.58	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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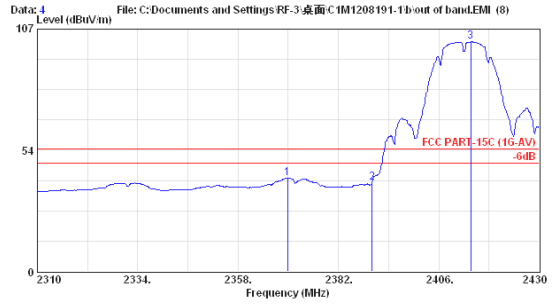

Site no. : A/C Chamber Data no. : 4
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 26℃/61% □jianlun_hung
EUT : WN7111B
Power Rating : DC5V
Test Mode : TX2412(802.11b)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2369.880	28.43	6.31	6.49	41.24	54.00	12.76	Average
2	2390.040	28.47	6.34	4.48	39.30	54.00	14.70	Average
3	2413.680	28.51	6.36	66.51	101.38	54.00	-47.38	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Date of Test：	Aug. 22, 2012	Temperature：	26℃
EUT：	WLAN Adapter Card	Humidity：	61%
Test Mode：	802.11b, Transmit, Channel: 01, Frequency: 2412MHz		

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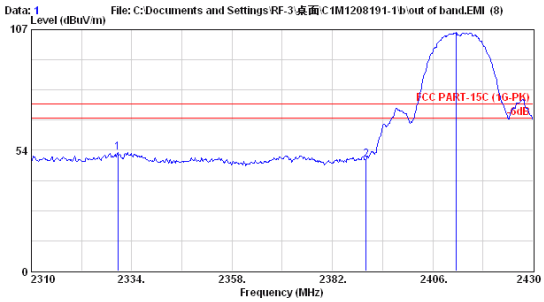

Site no. : A/C Chamber Data no. : 1
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 26℃/61% □jianlun_hung
EUT : WN7111B
Power Rating : DC5V
Test Mode : TX2412(802.11b)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2330.640	28.32	6.26	17.94	52.52	74.00	21.48	Peak
2	2390.040	28.47	6.34	14.40	49.22	74.00	24.78	Peak
3	2411.640	28.51	6.36	70.89	105.77	74.00	-31.77	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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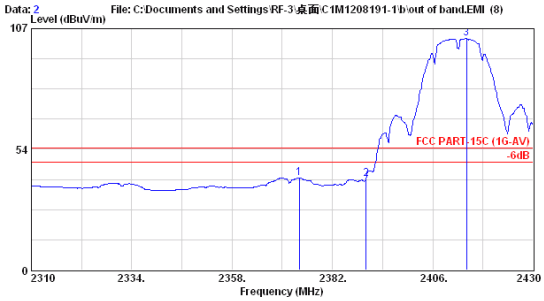

Site no. : A/C Chamber Data no. : 2
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 26℃/61% □jianlun_hung
EUT : WN7111B
Power Rating : DC5V
Test Mode : TX2412(802.11b)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2374.080	28.43	6.32	6.17	40.92	54.00	13.08	Average
2	2390.040	28.47	6.34	5.69	40.51	54.00	13.49	Average
3	2414.040	28.51	6.36	67.68	102.55	54.00	-48.55	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Date of Test：	Aug. 22, 2012	Temperature：	26℃
EUT：	WLAN Adapter Card	Humidity：	61%
Test Mode：	802.11b, Transmit, Channel: 11, Frequency: 2462MHz		

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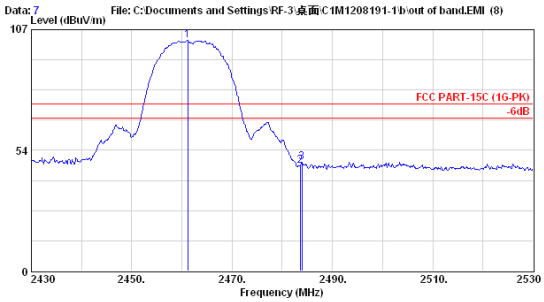


```
Site no.      : A/C Chamber                  Data no.  : 7
Dis. / Ant.   : 3m   3115(4927)              Ant. pol. : HORIZONTAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : E4446A 26℃/61%                        □jianlun_hung
EUT           : WN7111B
Power Rating  : DC5V
Test Mode     : TX2462(802.11b)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2461.200	28.62	6.42	67.36	102.40	74.00	-28.40	Peak
2	2483.600	28.66	6.45	11.68	46.80	74.00	27.20	Peak
3	2483.900	28.66	6.45	12.97	48.09	74.00	25.91	Peak

```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```

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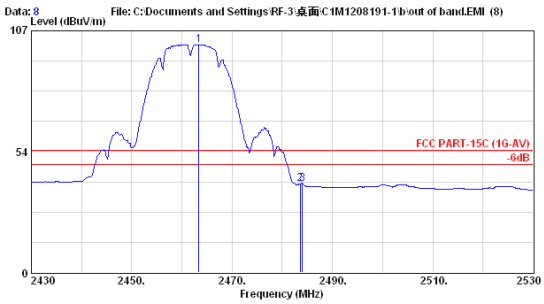


```
Site no.      : A/C Chamber                  Data no.  : 8
Dis. / Ant.   : 3m   3115(4927)              Ant. pol. : HORIZONTAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : E4446A 26℃/61%                        □jianlun_hung
EUT           : WN7111B
Power Rating  : DC5V
Test Mode     : TX2462(802.11b)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2463.400	28.62	6.42	65.86	100.91	54.00	-46.91	Average
2	2483.600	28.66	6.45	4.24	39.35	54.00	14.65	Average
3	2484.000	28.66	6.45	4.23	39.35	54.00	14.65	Average

```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```

Date of Test：	Aug. 22, 2012	Temperature：	26℃
EUT：	WLAN Adapter Card	Humidity：	61%
Test Mode：	802.11b, Transmit, Channel: 11, Frequency: 2462MHz		

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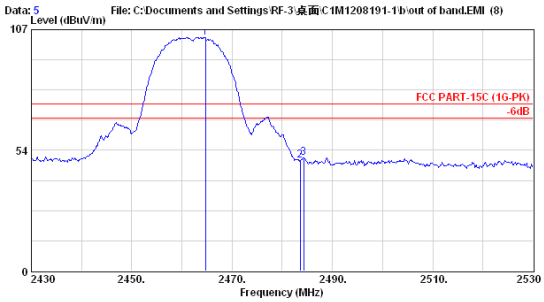

Site no. : A/C Chamber Data no. : 5
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 26℃/61% □jianlun_hung
EUT : WN7111B
Power Rating : DC5V
Test Mode : TX2462(802.11b)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2464.700	28.62	6.42	68.59	103.64	74.00	-29.64	Peak
2	2483.600	28.66	6.45	13.89	49.00	74.00	25.00	Peak
3	2484.300	28.66	6.45	15.02	50.13	74.00	23.87	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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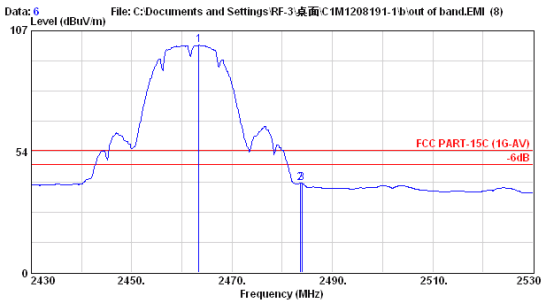

Site no. : A/C Chamber Data no. : 6
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 26℃/61% □jianlun_hung
EUT : WN7111B
Power Rating : DC5V
Test Mode : TX2462(802.11b)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2463.400	28.62	6.42	65.55	100.60	54.00	-46.60	Average
2	2483.600	28.66	6.45	4.38	39.49	54.00	14.51	Average
3	2483.900	28.66	6.45	4.38	39.50	54.00	14.50	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Date of Test：	Aug. 22, 2012	Temperature：	26℃
EUT：	WLAN Adapter Card	Humidity：	61%
Test Mode：	802.11g, Transmit, Channel: 01, Frequency: 2412MHz		

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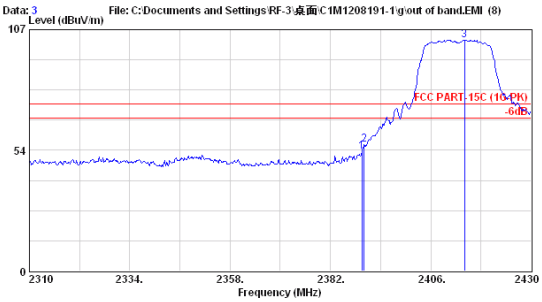

Site no. : A/C Chamber Data no. : 3
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 26℃/61% jianlun_hung
EUT : WN7111B
Power Rating : DC5V
Test Mode : TX2412(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2389.560	28.47	6.34	17.96	52.77	74.00	21.23	Peak
2	2390.040	28.47	6.34	21.14	55.96	74.00	18.04	Peak
3	2414.040	28.51	6.36	67.58	102.45	74.00	-28.45	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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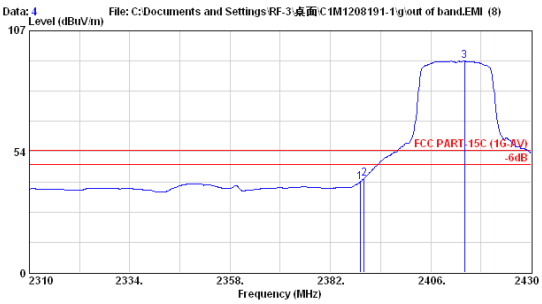

Site no. : A/C Chamber Data no. : 4
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 26℃/61% jianlun_hung
EUT : WN7111B
Power Rating : DC5V
Test Mode : TX2412(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2389.080	28.47	6.34	5.22	40.03	54.00	13.97	Average
2	2390.040	28.47	6.34	6.75	41.57	54.00	12.43	Average
3	2414.040	28.51	6.36	58.65	93.52	54.00	-39.52	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Date of Test：	Aug. 22, 2012	Temperature：	26℃
EUT：	WLAN Adapter Card	Humidity：	61%
Test Mode：	802.11g, Transmit, Channel: 01, Frequency: 2412MHz		

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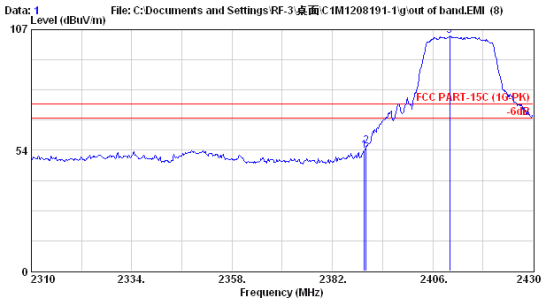


```
Site no.      : A/C Chamber                Data no.  : 1
Dis. / Ant.   : 3m   3115(4927)            Ant. pol. : VERTICAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : E4446A 26℃/61%                       □jianlun_hung
EUT           : WN7111B
Power Rating  : DC5V
Test Mode     : TX2412(802.11g)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2389.680	28.47	6.34	18.43	53.25	74.00	20.75	Peak
2	2390.040	28.47	6.34	20.29	55.11	74.00	18.89	Peak
3	2410.080	28.51	6.36	69.22	104.09	74.00	-30.09	Peak

```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```

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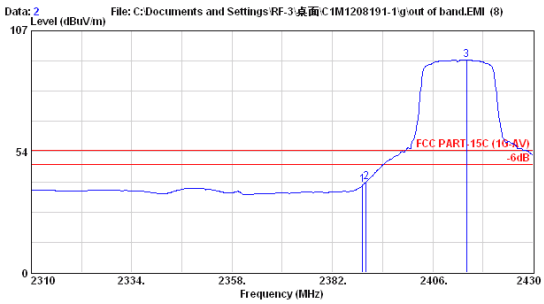


```
Site no.      : A/C Chamber                Data no.  : 2
Dis. / Ant.   : 3m   3115(4927)            Ant. pol. : VERTICAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : E4446A 26℃/61%                       □jianlun_hung
EUT           : WN7111B
Power Rating  : DC5V
Test Mode     : TX2412(802.11g)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2389.200	28.47	6.34	3.80	38.61	54.00	15.39	Average
2	2390.040	28.47	6.34	5.17	39.99	54.00	14.01	Average
3	2414.040	28.51	6.36	59.28	94.15	54.00	-40.15	Average

```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```

Date of Test：	Aug. 22, 2012	Temperature：	26℃
EUT：	WLAN Adapter Card	Humidity：	61%
Test Mode：	802.11g, Transmit, Channel: 11, Frequency: 2462MHz		

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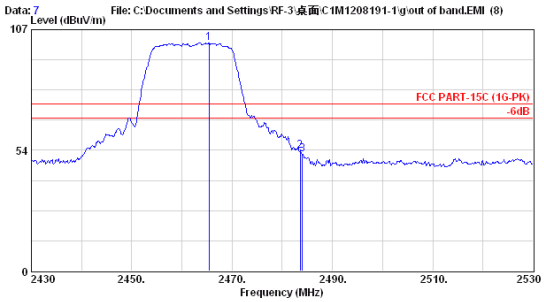

Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 26℃/61% □jianlun_hung
EUT : WN7111B
Power Rating : DC5V
Test Mode : TX2462(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2465.400	28.62	6.42	66.14	101.19	74.00	-27.19	Peak
2	2483.600	28.66	6.45	18.13	53.25	74.00	20.75	Peak
3	2484.000	28.66	6.45	16.71	51.82	74.00	22.18	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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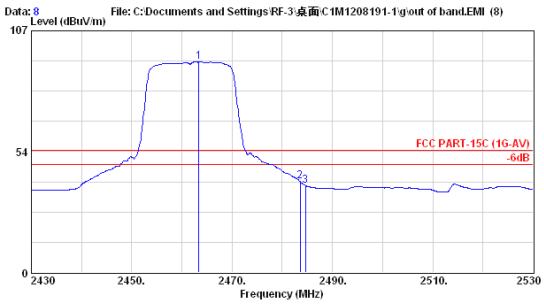

Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 26℃/61% □jianlun_hung
EUT : WN7111B
Power Rating : DC5V
Test Mode : TX2462(802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2463.400	28.62	6.42	58.10	93.15	54.00	-39.15	Average
2	2483.600	28.66	6.45	5.08	40.19	54.00	13.81	Average
3	2484.600	28.66	6.45	3.43	38.54	54.00	15.46	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Date of Test：	Aug. 22, 2012	Temperature：	26℃
EUT：	WLAN Adapter Card	Humidity：	61%
Test Mode：	802.11g, Transmit, Channel: 11, Frequency: 2462MHz		

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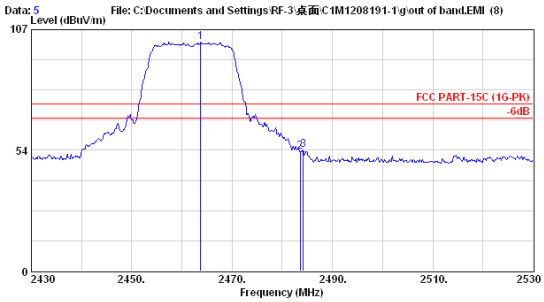


```
Site no.      : A/C Chamber                 Data no.  : 5
Dis. / Ant.   : 3m   3115(4927)             Ant. pol. : VERTICAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : E4446A 26℃/61%                        jianlun_hung
EUT           : WN7111B
Power Rating  : DC5V
Test Mode     : TX2462(802.11g)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2463.700	28.62	6.42	66.64	101.69	74.00	-27.69	Peak
2	2483.600	28.66	6.45	17.66	52.77	74.00	21.23	Peak
3	2484.200	28.66	6.45	18.51	53.62	74.00	20.38	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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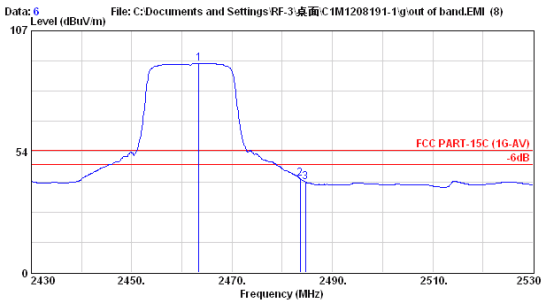


```
Site no.      : A/C Chamber                 Data no.  : 6
Dis. / Ant.   : 3m   3115(4927)             Ant. pol. : VERTICAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : E4446A 26℃/61%                        jianlun_hung
EUT           : WN7111B
Power Rating  : DC5V
Test Mode     : TX2462(802.11g)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2463.400	28.62	6.42	57.51	92.56	54.00	-38.56	Average
2	2483.600	28.66	6.45	6.39	41.51	54.00	12.49	Average
3	2484.600	28.66	6.45	4.95	40.07	54.00	13.93	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Date of Test：	Aug. 22, 2012	Temperature：	26℃
EUT：	WLAN Adapter Card	Humidity：	61%
Test Mode：	802.11n-HT20, Transmit, Channel: 01, Frequency: 2412MHz		

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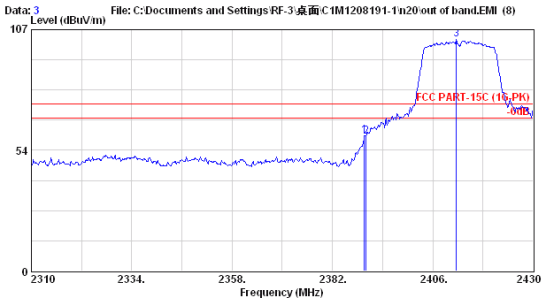


```
Site no.      : A/C Chamber                    Data no.  : 3
Dis. / Ant.   : 3m   3115(4927)                Ant. pol. : HORIZONTAL
Limit         : FCC PART-15C (1G-PK)
Env. / Ins.   : E4446A 26℃/61%                           □jianlun_hung
EUT           : WN7111B
Power Rating  : DC5V
Test Mode     : TX2412(802.11n-HT20)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2389.680	28.47	6.34	25.19	60.01	74.00	13.99	Peak
2	2390.040	28.47	6.34	24.74	59.56	74.00	14.44	Peak
3	2411.640	28.51	6.36	67.70	102.58	74.00	-28.58	Peak

```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```

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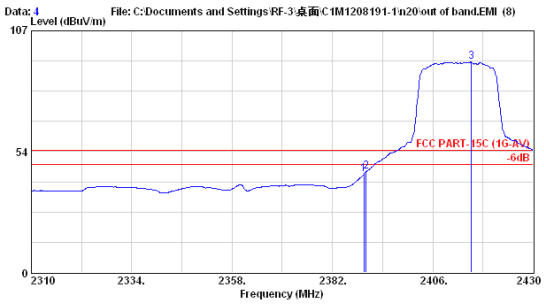


```
Site no.      : A/C Chamber                    Data no.  : 4
Dis. / Ant.   : 3m   3115(4927)                Ant. pol. : HORIZONTAL
Limit         : FCC PART-15C (1G-AV)
Env. / Ins.   : E4446A 26℃/61%                           □jianlun_hung
EUT           : WN7111B
Power Rating  : DC5V
Test Mode     : TX2412(802.11n-HT20)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2389.560	28.47	6.34	8.72	43.54	54.00	10.46	Average
2	2390.040	28.47	6.34	9.69	44.51	54.00	9.49	Average
3	2415.240	28.51	6.36	58.21	93.09	54.00	-39.09	Average

```
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
         2. The emission levels that are 20dB below the official
            limit are not reported.
```

Date of Test：	Aug. 22, 2012	Temperature：	26℃
EUT：	WLAN Adapter Card	Humidity：	61%
Test Mode：	802.11n-HT20, Transmit, Channel: 01, Frequency: 2412MHz		

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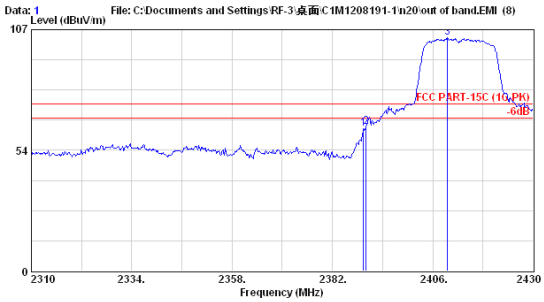

Site no. : A/C Chamber Data no. : 1
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 26℃/61% □jianlun_hung
EUT : WN7111B
Power Rating : DC5V
Test Mode : TX2412(802.11n-HT20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2389.440	28.47	6.34	28.30	63.12	74.00	10.88	Peak
2	2390.040	28.47	6.34	29.19	64.01	74.00	9.99	Peak
3	2409.480	28.51	6.36	68.42	103.30	74.00	-29.30	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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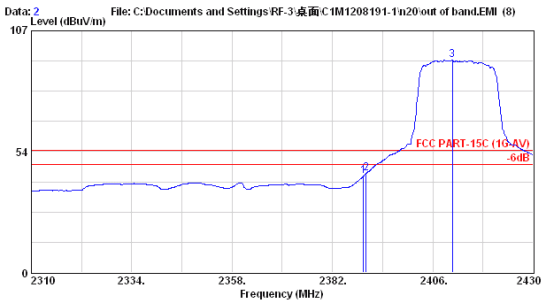

Site no. : A/C Chamber Data no. : 2
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 26℃/61% □jianlun_hung
EUT : WN7111B
Power Rating : DC5V
Test Mode : TX2412(802.11n-HT20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2389.440	28.47	6.34	7.75	42.57	54.00	11.43	Average
2	2390.040	28.47	6.34	9.05	43.87	54.00	10.13	Average
3	2410.680	28.51	6.36	59.04	93.91	54.00	-39.91	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Date of Test：	Aug. 22, 2012	Temperature：	26℃
EUT：	WLAN Adapter Card	Humidity：	61%
Test Mode：	802.11n-HT20, Transmit, Channel: 11, Frequency: 2462MHz		

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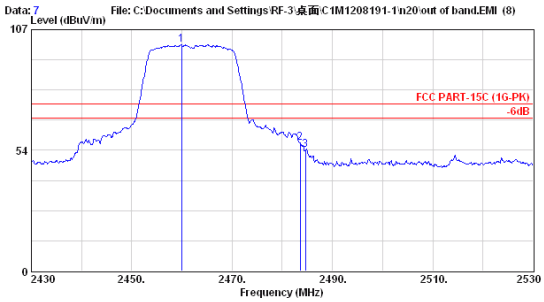

Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 26℃/61% □jianlun_hung
EUT : WN7111B
Power Rating : DC5V
Test Mode : TX2462(802.11n-HT20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2459.900	28.62	6.42	65.27	100.31	74.00	-26.31	Peak
2	2483.600	28.66	6.45	21.73	56.85	74.00	17.15	Peak
3	2484.600	28.66	6.45	18.54	53.65	74.00	20.35	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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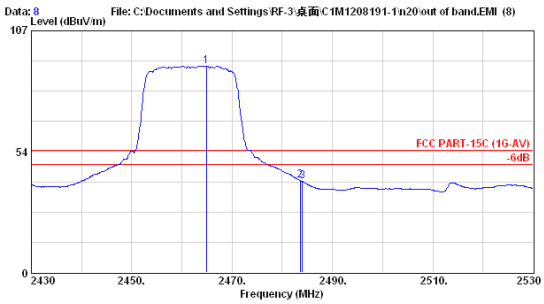

Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 26℃/61% □jianlun_hung
EUT : WN7111B
Power Rating : DC5V
Test Mode : TX2462(802.11n-HT20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2464.900	28.62	6.42	56.30	91.35	54.00	-37.35	Average
2	2483.600	28.66	6.45	5.60	40.71	54.00	13.29	Average
3	2484.000	28.66	6.45	5.17	40.28	54.00	13.72	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Date of Test：	Aug. 22, 2012	Temperature：	26℃
EUT：	WLAN Adapter Card	Humidity：	61%
Test Mode：	802.11n-HT20, Transmit, Channel: 11, Frequency: 2462MHz		

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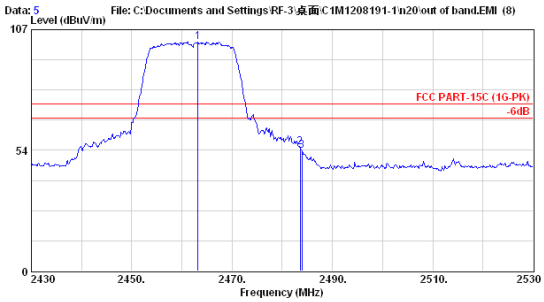

Site no. : A/C Chamber Data no. : 5
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 26℃/61% □jianlun_hung
EUT : WN7111B
Power Rating : DC5V
Test Mode : TX2462(802.11n-HT20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2463.200	28.62	6.42	66.37	101.42	74.00	-27.42	Peak
2	2483.600	28.66	6.45	19.62	54.73	74.00	19.27	Peak
3	2483.900	28.66	6.45	18.08	53.20	74.00	20.80	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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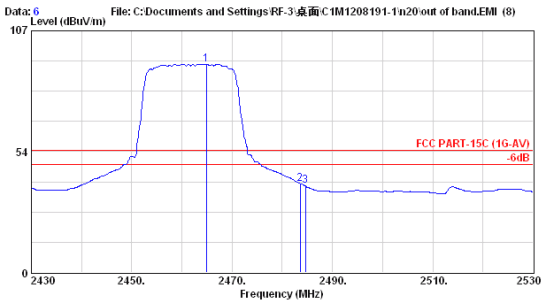

Site no. : A/C Chamber Data no. : 6
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 26℃/61% □jianlun_hung
EUT : WN7111B
Power Rating : DC5V
Test Mode : TX2462(802.11n-HT20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2464.900	28.62	6.42	57.24	92.29	54.00	-38.29	Average
2	2483.600	28.66	6.45	4.27	39.38	54.00	14.62	Average
3	2484.600	28.66	6.45	3.15	38.27	54.00	15.73	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Date of Test：	Aug. 22, 2012	Temperature：	26℃
EUT：	WLAN Adapter Card	Humidity：	61%
Test Mode：	802.11n-HT40, Transmit, Channel: 03, Frequency: 2422MHz		

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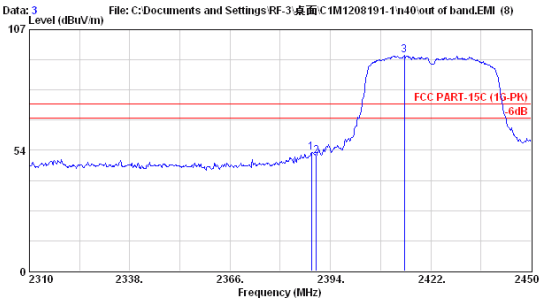

Site no. : A/C Chamber Data no. : 3
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 26℃/61% jianlun_hung
EUT : WN7111B
Power Rating : DC5V
Test Mode : TX2422(802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2388.680	28.47	6.34	17.67	52.48	74.00	21.52	Peak
2	2390.080	28.47	6.34	15.96	50.78	74.00	23.22	Peak
3	2414.580	28.51	6.36	60.95	95.82	74.00	-21.82	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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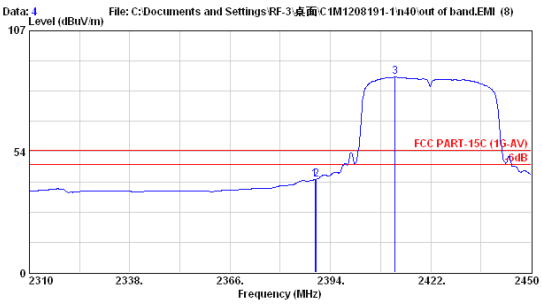

Site no. : A/C Chamber Data no. : 4
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 26℃/61% jianlun_hung
EUT : WN7111B
Power Rating : DC5V
Test Mode : TX2422(802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2389.660	28.47	6.34	6.33	41.15	54.00	12.85	Average
2	2390.080	28.47	6.34	6.52	41.34	54.00	12.66	Average
3	2412.060	28.51	6.36	51.65	86.53	54.00	-32.53	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Date of Test：	Aug. 22, 2012	Temperature：	26℃
EUT：	WLAN Adapter Card	Humidity：	61%
Test Mode：	802.11n-HT40, Transmit, Channel: 03, Frequency: 2422MHz		

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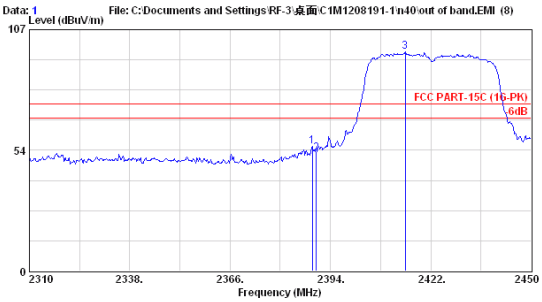

Site no. : A/C Chamber Data no. : 1
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 26℃/61% □jianlun_hung
EUT : WN7111B
Power Rating : DC5V
Test Mode : TX2422(802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2388.960	28.47	6.34	20.32	55.13	74.00	18.87	Peak
2	2390.080	28.47	6.34	17.14	51.96	74.00	22.04	Peak
3	2414.860	28.51	6.36	62.29	97.17	74.00	-23.17	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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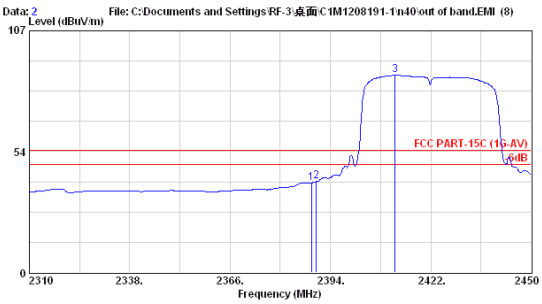

Site no. : A/C Chamber Data no. : 2
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 26℃/61% □jianlun_hung
EUT : WN7111B
Power Rating : DC5V
Test Mode : TX2422(802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2388.680	28.47	6.34	4.87	39.68	54.00	14.32	Average
2	2390.080	28.47	6.34	5.38	40.20	54.00	13.80	Average
3	2412.060	28.51	6.36	52.48	87.36	54.00	-33.36	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Date of Test：	Aug. 22, 2012	Temperature：	26℃
EUT：	WLAN Adapter Card	Humidity：	61%
Test Mode：	802.11n-HT40, Transmit, Channel: 09, Frequency: 2452MHz		

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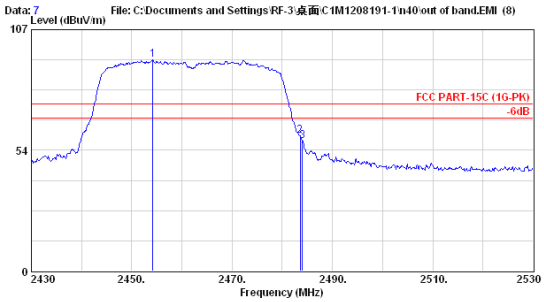

Site no. : A/C Chamber Data no. : 7
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 26℃/61% jianlun_hung
EUT : WN7111B
Power Rating : DC5V
Test Mode : TX2452(802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2454.200	28.62	6.42	58.73	93.77	74.00	-19.77	Peak
2	2483.600	28.66	6.45	24.67	59.78	74.00	14.22	Peak
3	2484.000	28.66	6.45	22.68	57.80	74.00	16.20	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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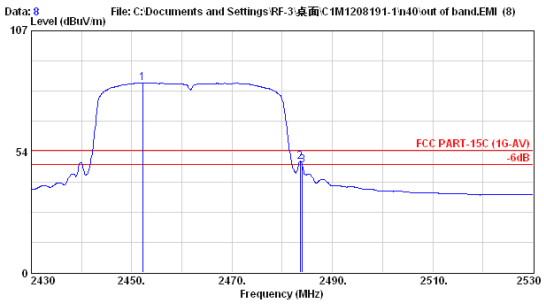

Site no. : A/C Chamber Data no. : 8
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 26℃/61% jianlun_hung
EUT : WN7111B
Power Rating : DC5V
Test Mode : TX2452(802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2452.200	28.59	6.41	48.98	83.98	54.00	-29.98	Average
2	2483.600	28.66	6.45	13.85	48.96	54.00	5.04	Average
3	2484.000	28.66	6.45	12.44	47.56	54.00	6.44	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Date of Test：	Aug. 22, 2012	Temperature：	26℃
EUT：	WLAN Adapter Card	Humidity：	61%
Test Mode：	802.11n-HT40, Transmit, Channel: 09, Frequency: 2452MHz		

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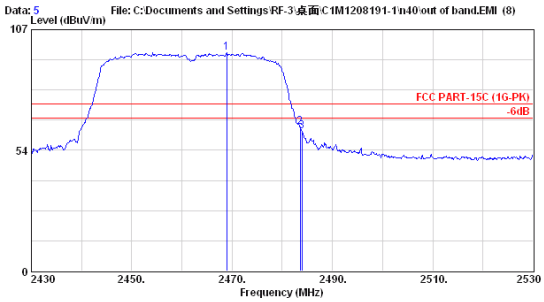

Site no. : A/C Chamber Data no. : 5
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-PK)
Env. / Ins. : E4446A 26℃/61% □jianlun_hung
EUT : WN7111B
Power Rating : DC5V
Test Mode : TX2452(802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2468.900	28.62	6.43	61.71	96.77	74.00	-22.77	Peak
2	2483.600	28.66	6.45	28.90	64.01	74.00	9.99	Peak
3	2483.900	28.66	6.45	26.97	62.09	74.00	11.91	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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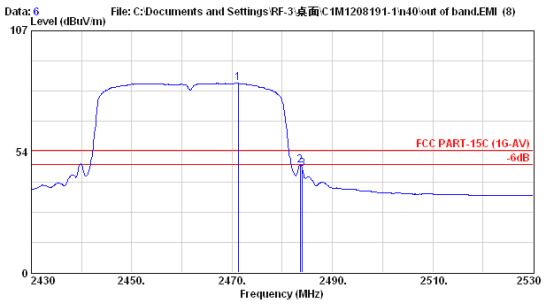


Site no. : A/C Chamber Data no. : 6
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
Limit : FCC PART-15C (1G-AV)
Env. / Ins. : E4446A 26℃/61% □jianlun_hung
EUT : WN7111B
Power Rating : DC5V
Test Mode : TX2452(802.11n-HT40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1	2471.200	28.66	6.43	48.71	83.81	54.00	-29.81	Average
2	2483.600	28.66	6.45	12.30	47.41	54.00	6.59	Average
3	2484.000	28.66	6.45	10.61	45.72	54.00	8.28	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

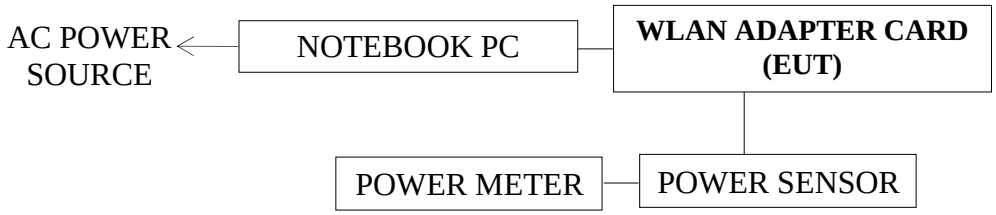
4. MAXIMUM PEAK OUTPUT POWER MEASUREMENT

4.1. Test Equipment

The following test equipment was used during the maximum peak output power measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Power Meter	Anritsu	ML2487A	6K00005406	Feb. 13, 12’	Feb. 12, 13’
2.	Power Sensor	Anritsu	MA2491A	030873	Feb. 13, 12’	Feb. 12, 13’

4.2. Block Diagram of Test Setup



4.3. Specification Limits (§15.247(b)-(3), RSS-210 A8.4 (4))

The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5MHz is : 1Watt. (30dBm)

4.4. Operating Condition of EUT

The test program “QA Tool” was used to enable the EUT to transmit data at different channel frequency individually.

4.5. Test Procedure

The transmitter output was connected to the power sensor and record the reading of power meter.

The measurement guideline was according to KDB 558074 D01.

4.6. Test Results

PASSED. All the test results are listed below.

(Test Date: Aug. 21, 2012 Temperature : 27℃ Humidity : 63%)

Mode	Type of Network	Channel	Frequency	**Peak Output Power (dBm)**
1.	802.11b	CH 1	2412MHz	**18.71dBm**
2.		CH 6	2437MHz	**18.24dBm**
3.		CH 11	2462MHz	**17.65dBm**
4.	802.11g	CH 1	2412MHz	**14.16dBm**
5.		CH 6	2437MHz	**13.52dBm**
6.		CH 11	2462MHz	**14.02dBm**
7.	802.11n-HT20	CH 1	2412MHz	**14.29dBm**
8.		CH 6	2437MHz	**14.18dBm**
9.		CH 11	2462MHz	**13.84dBm**
10.	802.11n-HT40	CH 3	2422MHz	**11.95dBm**
11.		CH 6	2437MHz	**12.36dBm**
12.		CH 9	2452MHz	**10.01dBm**

[Limit: 1Watt (30dBm)]

5. DEVIATION TO TEST SPECIFICATIONS

【NONE】