MEASUREMENT REPORT
of
Wireless Access Extension

Applicant	**:**	Terayon Communication System
EUT	**:**	Wireless Access Extension
Model No.	**:**	WX-54G
FCC ID	**:**	NJ2WX54G

Tested by :

Training Research Co., Ltd.

TEL : 886-2-26935155 FAX : 886-2-26934440

No. 255, Nanyang Street, Shijr, Taipei Hsien 221, Taiwan, R.O.C.

CERTIFICATION

We here by verify that:

The test data, data evaluation, test procedures and equipment configurations shown in this report were made mainly in accordance with the procedures given in ANSI C63.4 (2003) as a reference. All test were conducted by ***Training Research Co., Ltd.***, 255 Nanyang Street, Shijr, Taipei Hsien 221, Taiwan, R.O.C. Also, we attest to the accuracy of each.

We further submit that the energy emitted by the sample EUT tested as described in the report is **in compliance with** the technical requirements set forth in the FCC Rules Part 15 Subpart B (Declaration of Conformity) and Subpart C Section 15.247.

Applicant	**:**	Terayon Communication System
Applicant address	**:**	4988 Great America Parkway Santa Clara, California 95020 United States
FCC ID	**:**	NJ2WX54G
Report No.	**:**	A5415050095
Test Date	**:**	March 4, 2005

Prepared by: *Jack Tsai* **Approved by:** *Frank Tsai*

Conditions of issue :

(1) This test report shall not be reproduced except in full, without written approval of TRC. And the test result contained within this report only relate to the sample submitted for testing.

(2) This report must not be used by the client to claim product endorsement by NVLAP or any agency of U.S. Government.

(3) This test report, measurements made by TRC are traceable to the NIST only Conducted and Radiated Method.

★ NVLAP LAB CODE: 200174-0

Federal Communications Commission
Declaration of Conformity
(DoC)

for the following equipment:

Product name : Wireless Access Extension
Model name : WX-54G
Trade name : TERAYON

Is herewith confirmed and found to comply with the requirements of CFR 47 part15 Subpart B - Unintentional Radiators regulation. The results of electromagnetic mission evaluation are shown in the report number : A5415050095

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation

Manufacturer	***USA local representative***
Company name: ASUSTeK Computer Inc.	**Company name:** Terayon Communication System
Computer address: 4/F, 150, Li-Te Rd., Peitou, Taipei, Taiwan	**Computer address:** 4988 Great America Parkway Santa Clara, California 95020 United States
ZIP / Postal code 112	**ZIP / Postal code** 95020
Contact person: Mr. Lawrence Yu	**Contact person:** Mr. William S. Rink
Title: Manager	**Title:** Director Application Engineering
Internet e-mail address: lawrence_yu@asus.com.tw	**Internet e-mail address:** bill.rink@terayon.com
Tel / Fax: 886-2-28943447 / 886-2-28950113	**Tel / Fax:** (408) 486- 5251 / (408) 235- 5580

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Ⅰ. GENERAL

1.1 Introduction

The following measurement report is submitted on behalf of applicant in support that the certification in accordance with Part 2 Subpart J and Part 15 Subpart A, B and C of the Commission's Rules and Regulations.

1.2 Description of EUT

FCC ID	:	NJ2WX54G
Model Name	:	WX-54G
Product Description	:	Add 802.11g and 802.11b wireless capability to cable modem
Frequency Range	:	2.412 GHz ~ 2.462GHz
Support Channel	:	11 Channels
Modulation Skill	:	DBPSK, DQPSK, CCK, OFDM
Power Type	:	Powered by AC to DC adapter Model: AD-48101200D I/P: 120VAC 60Hz 0.3A; O/P: 10VDC 1200mA 190cm length, non-shielded, no ferrite core (between AC and Adapter) 187cm length, non-shielded, no ferrite core (between Adapter and Extension)

1.3 Test method

1. The POWER port connected with the AC power source via an AC to DC adaptor.
2. The CABLE port connected to simulator located remotely.
3. Connected the LAN port of EUT with the LAN interface of PC. Using PC and software provided by the manufacturer to control EUT, the test is performed under the specific conditions.
4. Set different data rate and channel (CH01/CH06/CH11) being tested and repeat the procedures above.
   (4.1) Radiated for Intentional test:
   making EUT to the mode of continuous transmission
   (4.2) Conducted test and Radiated for unintentional test:
   making EUT to the linking (RX/TX) mode with far support equipments

1.4 Description of Support Equipment

In order to construct the minimum testing, following equipment were used as the support units.

PC	**:**	**IBM 8434**
Model No.	:	IVG
Serial No.	:	99CCZA3
FCC ID	:	DoC (Declaration of Confirmation) Approved
BSMI	:	R33026
Power type	:	100 ~ 127 / 200 ~ 240VAC, 4A/2A 50/60 Hz, Switching
Power cord	:	Non-shielded, 182cm length, Plastic hood, No ferrite core
Monitor	**:**	**HP 15' Color Monitor**
Model No.	:	D2827A
Serial No.	:	KR91161719
FCC ID	:	C5F7NFCMC1518X
BSMI	:	3872B039
Power type	:	100 ~ 240 VAC / 50 ~ 60 Hz, Switching
Power cord	:	Shielded, 1.83m length, No ferrite core
Data cable	:	Shielded, 1.46m length, with two ferrite cores
Printer	**:**	**EPSON**
Model No.	:	B241A
Serial No.	:	FAPY155090
FCC ID	:	None (DoC Approved)
BSMI	:	R33126
Power type	:	Switching adaptor
Power cord	:	Non-shielded, 180cm length, No ferrite core
Data cable	:	Shielded, 1.70m length, No ferrite core
LAN Card	**:**	**D-Link**
Model No.	:	DFE-530TX
Serial No.	:	0050BAE32FF3
FCC ID	:	None (DoC Approved)

PS/2 Keyboard	**:**	**HP**
Model No.	:	SK-2501K
Serial No.	:	MR81008879
FCC ID	:	GYUR38SK
BSMI	:	3862A621
Power type	:	By PC
Data cable	:	Shielded, 1.73m length, with ferrite core

PS/2 Mouse	**:**	**HP**
Model No.	:	M-S34
Serial No.	:	LZB90910464
FCC ID	:	DZL211029
BSMI	:	4862A011
Power type	:	By PC
Power cord	:	Non-shielded, 1.88m length, No ferrite core

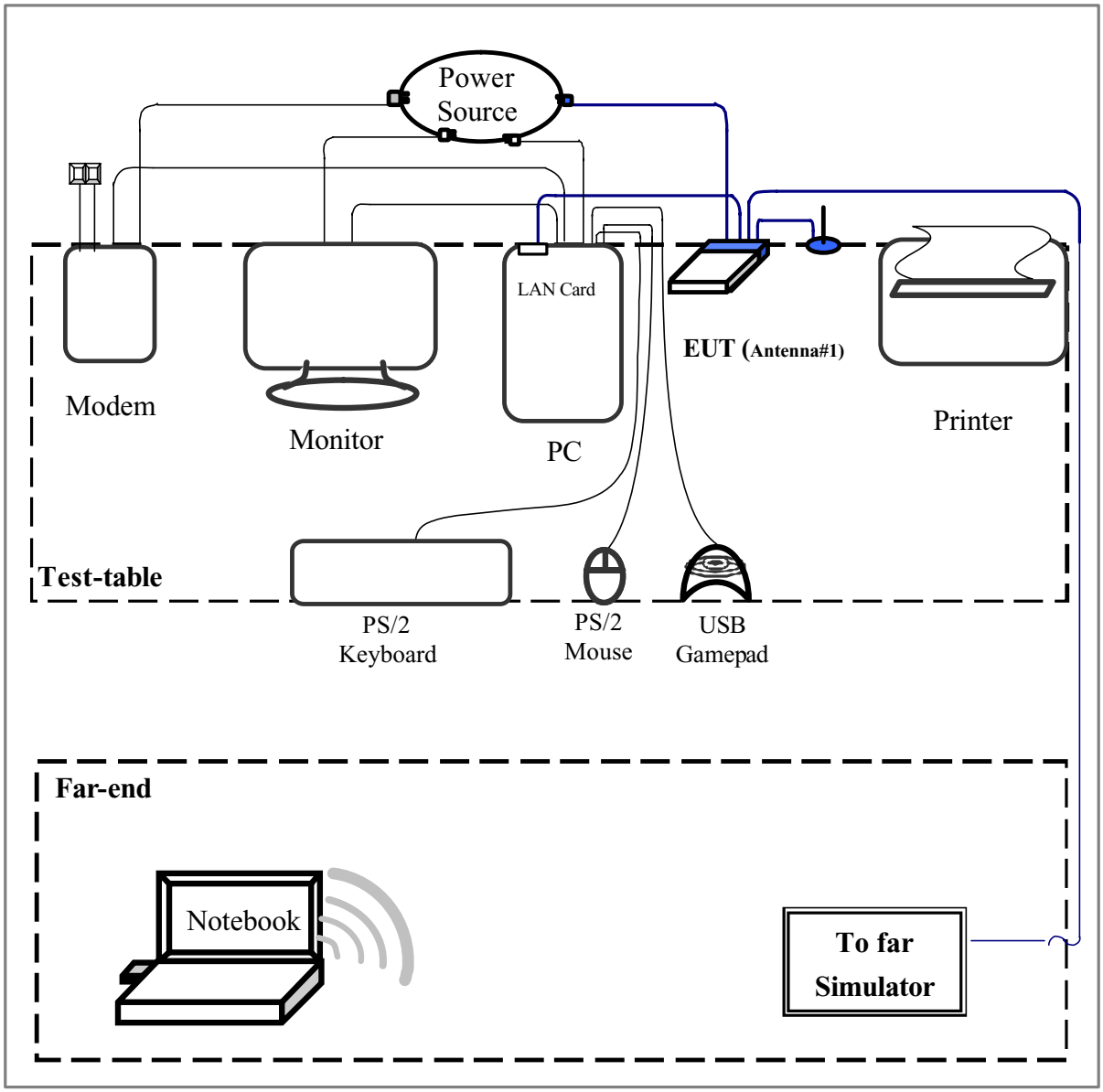
Modem	**:**	**ACEEX**
Model No.	:	XDM-56V14
FCC ID	:	IFAXDM-56V14
Power type	:	Linear
Power cord	:	Non-shielded, 1.9m length, No ferrite cord
Data cable	:	RS232, Shielded, 1.2m length, No ferrite core
		RJ11C x 2, 7’ length non-shielded, No ferrite core

USB Gamepad	**:**	**Rockfire**
Model No.	:	QF-337uv
Serial No.	:	KR91379759
FCC ID	:	None (CE approval)
BSMI	:	3862A574
Power type	:	By computer
Data Cable	:	Shielded, 1.81m length, Plastic, with ferrite core

Notebook	**:**	**IBM Think Pad X20**
Model No.	:	2662-11T
Serial No.	:	FX-1192200/09
FCC ID	:	N/A, DoC Approved
BSMI	:	3892B565
Adaptor	**:**	**IBM**
Model No.	:	PA2450U
Serial No.	:	02K6654
FCC ID	:	N/A, Doc Approved
Power type	:	I/P: 100 ~ 240Vac, 50 ~ 60 Hz, 0.5A ~ 1.2A
		O/P: 16Vdc, 4.5A
Power cord	:	Non-shielded, 1.80m length, Plastic, with ferrite core
WLAN Card	**:**	**Gemtek Technology Co., Ltd.**
Model No.	:	C911003
FCC ID	:	MXF-C911003
Networks	**:**	**Nortel CYMS 1000**
Model No.	:	DE3801E02
Serial No.	:	01325110
Power type	:	Linear
Cable Modem	**:**	**Terayon Communication System**
Model No.	:	TJ721X

1.5 Configuration of System Under Test

1.5.1 Conducted and Radiated for Unintentional



Connections of Computer:

*Parallel Port --- a printer

*Serial Port --- an external modem

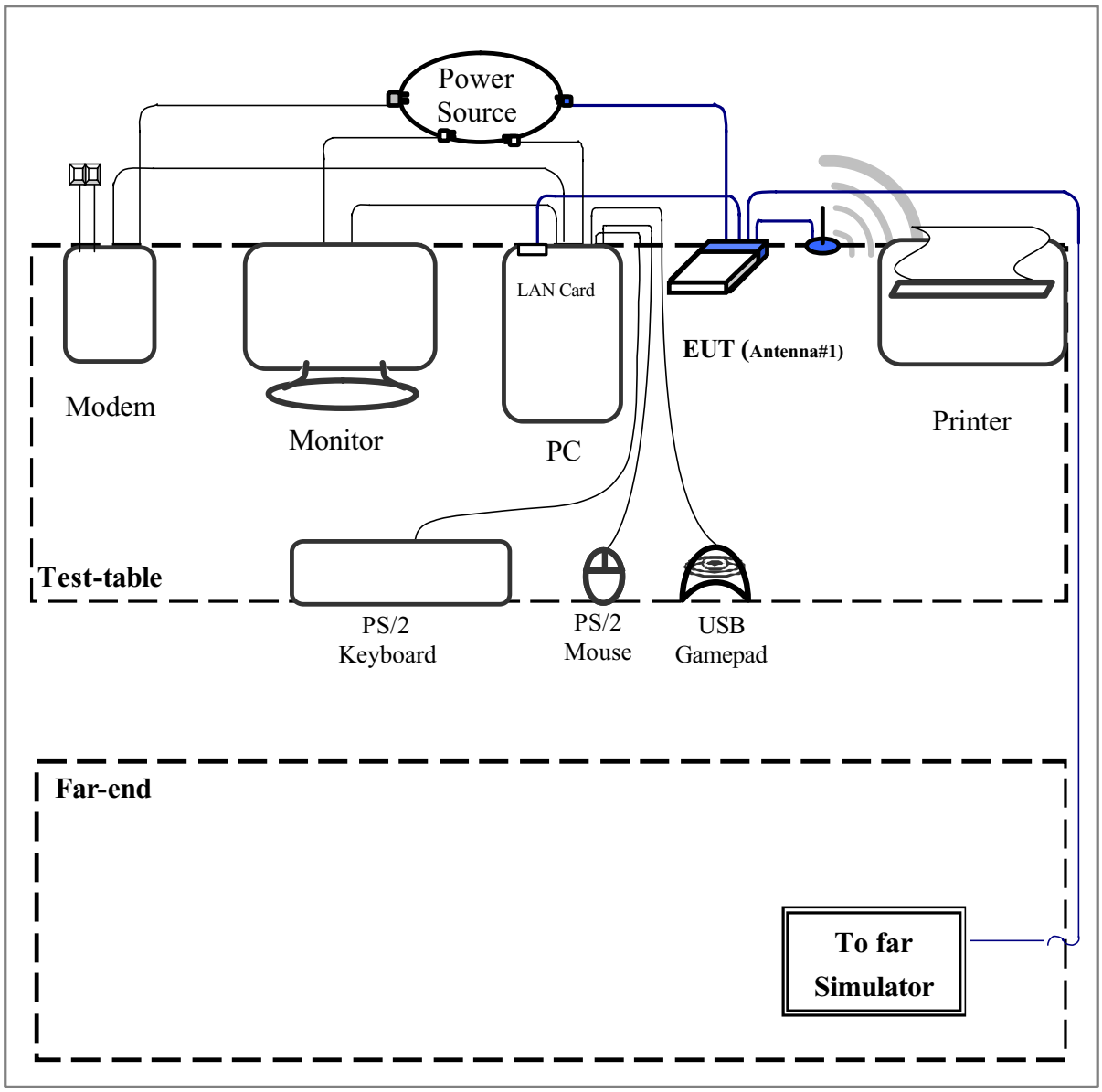
*PS/2 Port --- a PS/2 keyboard

*PS/2 Port --- a PS/2 mouse

*USB Port --- a USB gamepad

*LAN Interface --- **EUT**

1.5.2 Radiated of Intentional



The tests below are carried with the EUT transmitter set at high power in TDD mode. The EUT is forced to select of output power level and channel number by PC.

The setting up procedure was recorded in 1.3 test method.

1.6 Verify the Frequency and Channel

Channel	Frequency	Channel	Frequency
1	2.412 GHz	7	2.442 GHz
2	2.417 GHz	8	2.447 GHz
3	2.422 GHz	9	2.452 GHz
4	2.427 GHz	10	2.457 GHz
5	2.432 GHz	11	2.462 GHz
6	2.437 GHz		

Note:

1. This is for confirming that all frequencies are in 2.412GHz to 2.462GHz.
2. Section 15.31(m): Measurements on intentional radiators or receivers shall be performed at three frequencies for operating frequency range over 10 MHz.
   (The locations of these frequencies one near the top, one near the middle and one near the bottom.)
3. After test, the EUT operating frequencies are in 2.412GHz to 2.462GHz. So all the items as followed in testing report are need to test these three frequencies:
   Top: Ch – 1; Middle: Ch – 6; Bottom: Ch – 11.

1.7 Test Procedure

All measurements contained in this report were performed mainly according to the techniques described in ANSI C63.4 (2003) and the pre-setup was written on 1.3 test method, the detail setup was written on each test item.

1.8 Location of the Test Site

The radiated emissions measurements required by the rules were performed on the **three-meter**, **Anechoic Chamber (FCC Registration Number: 93906)** maintained by *Training Research Co., Ltd.* 1F, No. 255 Nanyang Street, Shijr, Taipei Hsien 221, Taiwan, R.O.C. Complete description and measurement data have been placed on file with the commission. The conducted power line emissions tests and other test items were performed in a anechoic chamber also located at Training Research Co., Ltd.

No. 255 Nanyang Street, Shijr, Taipei Hsien 221, Taiwan, R.O.C. *Training Research Co., Ltd.* is listed by the FCC as a facility available to do measurement work for others on a contract basis.

1.9 General Test Condition

The conditions under which the EUT operates were varied to determine their effect on the equipment's emission characteristics. The final configuration of the test system and the mode of operation used during these tests were chosen as that which produced the highest emission levels. However, only those conditions, which the EUT was considered likely to encounter in normal use were investigated.

In test, they were set in high power and continuously transmitting mode that controlled by computer. The CH01, CH06 and CH11 of EUT were all tested. The setting up procedure is recorded on 1.3 test method.

II. Section 15.101(a): Equipment authorization of unintentional radiators

The EUT equipped with a Protocol Control Information interface and should be operated with the computer. It was categorized to *Class B personal computers and peripherals* as cannot be operated stand-alone. The authorization requires **Declaration of Conformity (DoC)** and the items required such as Sect.15.107 (Conducted limits) and Section15.109 (Radiated emission limits) is same as Section15.207 and 15.247(C).

III. Section 15.203: Antenna requirement

The EUT has a detachable antenna, the detachable antenna is affixed to the EUT using a unique connector, which allows for replacement of a broken antenna, but does not use a standard antenna jack or electrical connector. The antenna requirement stated in Sect.15.203 is inapplicable to this EUT.

The two kind antenna specifications (Option) of list as follows, (Please Ref. to RF Exposure Calculations, antenna specification)

Antenna#1

Manufacturer	:	GOLDEN BRIDGE ELECTECH INC.
Part No.	:	MFPRGB1DNCC000X
Connector	:	RSMA
Antenna Type	:	Dipole
Antenna Gain	:	2.9385dBi (Max.)

Antenna#2

Manufacturer	:	WHA YU INDUSTRIAL CO., LTD.
Part No.	:	C660-510004-A
Connector	:	RSMA
Antenna Type	:	Dipole
Antenna Gain	:	2.0dBi (Max.)

VI. Section 15.207: Power Line Conducted Emissions for AC Powered Units

4.1 Test Condition & Setup

The power line conducted emission measurements were performed in an anechoic chamber. The EUT was assembled on a wooden table, which is 80 centimeters high, was placed 40 centimeters from the backwall and at least 1 meter from the sidewall.

Power was fed to the EUT from the public utility power grid through a line filter and Line Impedance Stabilization Networks (LISNs). The LISN housing, measuring instrumentation case, ground plane, etc., were electrically bonded together at the same RF potential. The Spectrum analyzer (or EMI receiver) was connected to the AC line through an isolation transformer. The 50-ohm output of the LISN was connected to the spectrum analyzer directly. Conducted emission levels were in the CISPR quasi-peak and average detection mode. The analyzer's 6 dB bandwidth was set to 9 KHz. No post-detector video filter was used.

The spectrum was scanned from 150KHz to 30MHz. The physical arrangement of the test system and associated cabling was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude and frequency. All spurious emission frequencies were observed. The highest emission amplitudes relative to the appropriate limit were measured and have been recorded in paragraph 4.3

There is a test condition apply in this test item, the test procedure description as <1.3>. Three channels were tested, one in the top (CH01), one in the middle (CH06) and the other in bottom (CH11).

4.2 List of Test Instruments

Calibration Date

Instrument Name	Model	Brand	Serial No.	Next time
EMI Receiver	8546A	HP	3520A00242	08/05/05
RF Filter Section	85460A	HP	3448A00217	08/05/05
LISN (EUT)	LISN-01	TRC	99-05	10/07/05
LISN (Support E.)	LISN-01	TRC	9912-03, 04	11/04/05
Pre-amplifier	15542 ZFL-500	Mini – Circuits	0 0117	05/20/05
6dB Attenuator	MCL BW-S6W2	Mini – Circuits	9915 – Conducted	05/20/05
10dB Attenuator	A5542 VAT010	Mini – Circuits	0215 – Conducted	05/20/05
Coaxial Cable (2 meter)	A30A30-0058-50FS-2M	Jyebao	SMA-08	05/20/05
Coaxial Cable (1.1 meter)	A30A30-0058-50FS-1M	Jyebao	SMA-09	05/20/05
Coaxial Cable (20 meter)	RG-214/U	Jyebao	NP-01	05/20/05
Coaxial Cable (20 meter)	RG-214/U	Jyebao	NP-02	05/20/05
Auto Switch Box (< 30MHz)	ASB-01	TRC	9904-01	05/20/05

4.3 Test Result of Power Line Conducted Emissions

The following table shows a summary of the highest emissions of power line conducted emissions on the LIVE and NETURAL conductors of the EUT power cord. Show as follows.

Test Conditions: Temperature : 25 °C Humidity : 73 % RH

Test mode: Standby mode, Antenna1

Power Connected Emissions					*Class B*		
Conductor	***Frequency (KHz)***	***Peak (dBμV)***	***QP (dBμV)***	***Average (dBμV)***	***QP-limit (dBμV)***	***AVG-limit (dBμV)***	***Margin (dB)***
Line 1	196.315	57.20	51.92	18.04	64.43	54.43	-12.51
	258.135	55.38	49.78	14.92	62.66	52.66	-12.88
	350.360	52.62	46.87	11.91	60.03	50.03	-13.16
	1208.000	36.78	---	---	56.00	46.00	-9.22
	5860.000	42.95	---	---	60.00	50.00	-7.05
	15823.965	51.27	51.30	46.85	60.00	50.00	-3.15
Line 2	203.765	58.01	53.15	18.19	64.23	54.23	-11.08
	326.260	56.09	50.24	15.26	60.74	50.74	-10.50
	471.675	53.50	47.08	12.33	56.57	46.57	-9.49
	1324.270	45.49	38.71	1.81	56.00	46.00	-17.29
	6170.000	45.32	---	---	60.00	50.00	-4.68
	16156.255	50.53	50.56	44.89	60.00	50.00	-5.11

NOTE:

(1)Margin = Peak Amplitude – Limit, *The reading amplitudes are all under limit.*

(2)A "+" sign in the margin column means the emission is OVER the Class B Limit and "–" sign of means UNDER the Class B limit

Test mode: IEEE 802.11b Channel 1, Antenna1

Power Connected Emissions					*Class B*		
Conductor	***Frequency (KHz)***	***Peak (dBμV)***	***QP (dBμV)***	***Average (dBμV)***	***QP-limit (dBμV)***	***AVG-limit (dBμV)***	***Margin (dB)***
Line 1	227.090	57.20	52.01	17.27	63.54	53.54	-11.53
	425.090	53.87	47.88	12.86	57.89	47.89	-10.01
	583.180	50.37	44.39	9.55	56.00	46.00	-11.61
	1363.455	43.98	38.00	21.34	56.00	46.00	-18.00
	6200.000	43.42	---	---	60.00	50.00	-6.58
	16542.490	49.70	50.03	42.90	60.00	50.00	-7.10
Line 2	174.045	57.64	52.71	18.22	65.06	55.06	-12.35
	253.495	55.33	49.76	15.39	62.80	52.80	-13.04
	368.675	51.94	45.98	11.19	59.51	49.51	-13.53
	2286.000	34.55	---	---	56.00	46.00	-11.45
	6200.000	43.32	---	---	60.00	50.00	-6.68
	16185.355	50.28	51.20	45.95	60.00	50.00	-4.05

Test mode: IEEE 802.11b Channel 6, Antenna1

Power Connected Emissions					*Class B*		
Conductor	***Frequency (KHz)***	***Peak (dBμV)***	***QP (dBμV)***	***Average (dBμV)***	***QP-limit (dBμV)***	***AVG-limit (dBμV)***	***Margin (dB)***
Line 1	178.675	58.36	53.56	18.85	64.94	54.94	-11.38
	338.025	55.75	49.51	15.20	60.43	50.43	-10.92
	560.090	51.02	45.06	10.34	56.00	46.00	-10.94
	1325.035	45.13	37.95	1.50	56.00	46.00	-18.05
	6520.000	44.71	---	---	60.00	50.00	-5.29
	16157.520	50.21	50.73	47.52	60.00	50.00	-2.48
Line 2	203.180	56.89	51.75	16.95	64.23	54.23	-12.48
	270.765	55.22	49.31	14.47	62.31	52.31	-13.00
	421.450	50.03	43.72	9.29	58.00	48.00	-14.28
	788.000	35.95	---	---	56.00	46.00	-10.05
	6170.000	43.63	---	---	60.00	50.00	-6.37
	15807.930	51.20	51.00	47.18	60.00	50.00	-2.82

Test mode: IEEE 802.11b Channel 11, Antenna1

Power Connected Emissions					*Class B*		
Conductor	*Frequency (KHz)*	*Peak (dBμV)*	*QP (dBμV)*	*Average (dBμV)*	*QP-limit (dBμV)*	*AVG-limit (dBμV)*	*Margin (dB)*
Line 1	253.540	57.20	51.59	16.67	62.80	52.80	-11.21
	355.665	55.63	49.60	14.75	59.91	49.91	-10.31
	443.675	53.96	47.69	12.83	57.37	47.37	-9.68
	1314.870	45.37	38.70	2.14	56.00	46.00	-17.30
	6520.000	45.97	---	---	60.00	50.00	-4.03
	16142.425	50.41	50.69	47.67	60.00	50.00	-2.33
Line 2	164.545	57.97	53.39	18.75	65.37	55.37	-11.98
	229.090	56.09	50.84	16.21	63.49	53.49	-12.65
	375.045	51.69	45.96	11.11	59.31	49.31	-13.35
	767.000	36.46	---	---	56.00	46.00	-9.54
	6520.000	44.94	---	---	60.00	50.00	-5.06
	16140.395	51.96	52.25	47.87	60.00	50.00	-2.13

Test mode: IEEE 802.11g Channel 1, Antenna1

Power Connected Emissions					*Class B*		
Conductor	*Frequency (KHz)*	*Peak (dBμV)*	*QP (dBμV)*	*Average (dBμV)*	*QP-limit (dBμV)*	*AVG-limit (dBμV)*	*Margin (dB)*
Line 1	166.405	58.04	53.18	18.53	65.29	55.29	-12.11
	288.225	54.76	48.85	14.19	61.80	51.80	-12.95
	452.495	49.21	42.89	10.06	57.11	47.11	-14.22
	2243.000	35.50	---	---	56.00	46.00	-10.50
	5860.000	43.18	---	---	60.00	50.00	-6.82
	15882.705	48.89	48.97	43.01	60.00	50.00	-6.99
Line 2	217.225	57.76	52.29	17.60	63.83	53.83	-11.54
	343.225	55.82	49.65	14.87	60.23	50.23	-10.58
	466.540	53.43	47.11	11.91	56.71	46.71	-9.60
	1341.595	45.54	38.54	2.55	56.00	46.00	-17.46
	5860.000	44.24	---	---	60.00	50.00	-5.76
	15190.000	46.59	---	---	60.00	50.00	-3.41

Test mode: IEEE 802.11g Channel 6, Antenna1

Power Connected Emissions					*Class B*		
Conductor	*Frequency (KHz)*	*Peak (dBμV)*	*QP (dBμV)*	*Average (dBμV)*	*QP-limit (dBμV)*	*AVG-limit (dBμV)*	*Margin (dB)*
Line 1	239.675	58.36	52.02	18.20	63.20	53.20	-11.18
	357.225	56.16	49.87	15.51	59.83	49.83	-9.96
	490.225	52.76	46.99	19.55	56.03	46.03	-9.04
	1208.450	47.90	40.05	18.84	56.00	46.00	-15.95
	6520.000	46.60	---	---	60.00	50.00	-3.40
	16474.915	51.69	51.16	45.60	60.00	50.00	-4.40
Line 2	218.755	56.64	51.11	16.52	65.83	55.83	-12.72
	323.575	53.47	47.66	14.99	60.83	50.83	-13.17
	396.225	50.76	44.83	14.05	58.71	48.71	-13.88
	1208.000	41.79	---	---	56.00	46.00	-4.21
	9010.000	45.82	---	---	60.00	50.00	-4.18
	16472.265	52.92	52.40	49.71	60.00	50.00	-0.29

Test mode: IEEE 802.11g Channel 11, Antenna1

Power Connected Emissions					*FCC Class B*		
Conductor	*Frequency (KHz)*	*Peak (dBμV)*	*QP (dBμV)*	*Average (dBμV)*	*QP-limit (dBμV)*	*AVG-limit (dBμV)*	*Margin (dB)*
Line 1	186.135	59.11	53.29	18.74	64.71	54.71	-11.42
	293.450	57.38	50.97	16.31	61.66	51.66	-10.69
	366.385	55.75	49.41	14.37	59.63	49.63	-10.22
	1244.980	46.25	39.09	2.80	56.00	46.00	-16.91
	6520.000	45.77	---	---	60.00	50.00	-4.23
	16136.765	50.95	50.87	46.27	60.00	50.00	-3.73
Line 2	173.000	57.78	52.65	18.14	65.09	55.09	-12.44
	245.520	55.80	50.22	15.39	63.09	53.09	-12.87
	314.810	53.85	47.65	12.78	61.06	51.06	-13.41
	2094.000	35.59	---	---	56.00	46.00	-10.41
	6520.000	45.47	---	---	60.00	50.00	-4.53
	15792.060	52.24	51.44	47.02	60.00	50.00	-2.98

Test mode: Standby mode, Antenna2

Power Connected Emissions					*Class B*		
Conductor	***Frequency (KHz)***	***Peak (dBμV)***	***QP (dBμV)***	***Average (dBμV)***	***QP-limit (dBμV)***	***AVG-limit (dBμV)***	***Margin (dB)***
Line 1	171.980	58.04	52.88	18.36	65.17	55.17	-12.29
	246.270	55.80	50.12	15.45	63.00	53.00	-12.88
	389.180	51.59	45.17	10.54	58.91	48.91	-13.74
	5830.000	42.85	---	---	60.00	50.00	-7.15
	6520.000	44.26	---	---	60.00	50.00	-5.74
	16144.960	52.13	52.62	47.46	60.00	50.00	-2.54
Line 2	253.405	57.69	51.61	16.82	62.80	52.80	-11.19
	412.045	54.74	48.59	13.49	58.26	48.26	-9.67
	504.225	52.50	46.53	11.91	56.00	46.00	-9.47
	1292.030	46.27	39.45	2.94	56.00	46.00	-16.55
	6520.000	44.65	---	---	60.00	50.00	-5.35
	16137.180	50.16	50.79	47.97	60.00	50.00	-2.03

Test mode: IEEE 802.11b Channel 1, Antenna2

Power Connected Emissions					*Class B*		
Conductor	***Frequency (KHz)***	***Peak (dBμV)***	***QP (dBμV)***	***Average (dBμV)***	***QP-limit (dBμV)***	***AVG-limit (dBμV)***	***Margin (dB)***
Line 1	168.135	57.97	52.91	18.49	65.23	55.23	-12.32
	276.720	55.04	49.33	14.47	62.14	52.14	-12.81
	604.000	40.81	---	---	56.00	46.00	-5.19
	5830.000	43.70	---	---	60.00	50.00	-6.30
	6520.000	44.65	---	---	60.00	50.00	-5.35
	16157.585	51.04	50.19	47.39	60.00	50.00	-2.61
Line 2	231.135	57.78	52.25	17.57	63.43	53.43	-11.18
	477.035	53.45	47.31	12.22	56.43	46.43	-9.12
	1268.190	46.61	40.08	2.87	56.00	46.00	-15.92
	2136.000	39.31	---	---	56.00	46.00	-6.69
	6870.000	44.58	---	---	60.00	50.00	-5.42
	16149.550	50.48	51.02	44.54	60.00	50.00	-5.46

Test mode: IEEE 802.11b Channel 6, Antenna2

Power Connected Emissions					*Class B*		
Conductor	***Frequency (KHz)***	***Peak (dBμV)***	***QP (dBμV)***	***Average (dBμV)***	***QP-limit (dBμV)***	***AVG-limit (dBμV)***	***Margin (dB)***
Line 1	260.225	55.40	49.74	14.93	62.60	52.60	-12.86
	336.000	53.01	47.22	12.28	60.43	50.43	-13.21
	1028.000	37.95	---	---	56.00	46.00	-8.05
	2094.000	36.26	---	---	56.00	46.00	-9.74
	6520.000	45.86	---	---	60.00	50.00	-4.14
	14730.000	45.38	---	---	60.00	50.00	-4.62
Line 2	322.720	56.78	50.55	15.53	60.83	50.83	-10.28
	425.225	54.59	48.48	13.38	57.89	47.89	-9.41
	1290.095	46.36	39.86	2.71	56.00	46.00	-16.14
	2051.000	40.01	---	---	56.00	46.00	-5.99
	6520.000	46.96	---	---	60.00	50.00	-3.04
	16134.055	50.95	51.47	47.39	60.00	50.00	-2.61

Test mode: IEEE 802.11b Channel 11, Antenna2

Power Connected Emissions					*Class B*		
Conductor	***Frequency (KHz)***	***Peak (dBμV)***	***QP (dBμV)***	***Average (dBμV)***	***QP-limit (dBμV)***	***AVG-limit (dBμV)***	***Margin (dB)***
Line 1	234.045	56.06	50.57	15.99	63.34	53.34	-12.77
	389.585	51.12	45.01	11.05	58.91	48.91	-13.90
	1219.000	37.72	---	---	56.00	46.00	-8.28
	5830.000	42.53	---	---	60.00	50.00	-7.47
	6520.000	44.47	---	---	60.00	50.00	-5.53
	15099.505	47.45	46.97	43.33	60.00	50.00	-6.67
Line 2	285.720	57.24	51.29	16.06	61.89	51.89	-10.60
	495.495	53.03	46.98	12.14	56.00	46.00	-9.02
	1215.200	48.47	41.05	30.00	56.00	46.00	-14.95
	1994.000	39.92	---	---	56.00	46.00	-6.08
	6519.185	47.31	47.17	42.54	60.00	50.00	-7.46
	16128.440	50.92	51.25	45.81	60.00	50.00	-4.19

Test mode: IEEE 802.11g Channel 1, Antenna2

Power Connected Emissions					*Class B*		
Conductor	***Frequency (KHz)***	***Peak (dBμV)***	***QP (dBμV)***	***Average (dBμV)***	***QP-limit (dBμV)***	***AVG-limit (dBμV)***	***Margin (dB)***
Line 1	192.270	57.22	51.80	17.76	64.54	54.54	-12.74
	293.855	54.36	47.79	13.52	61.66	51.66	-13.87
	447.720	48.75	42.35	7.79	57.26	47.26	-14.91
	2265.000	35.50	---	---	56.00	46.00	-10.50
	6490.000	44.87	---	---	60.00	50.00	-5.13
	15778.020	51.64	51.40	48.39	60.00	50.00	-1.61
Line 2	227.490	58.01	51.67	16.75	63.69	53.69	-12.02
	394.085	55.52	48.95	13.97	58.91	48.91	-9.96
	504.045	53.17	47.07	12.21	56.00	46.00	-8.93
	1250.605	46.98	39.03	2.71	56.00	46.00	-16.97
	6490.000	46.63	---	---	60.00	50.00	-3.37
	16119.950	50.88	51.04	46.93	60.00	50.00	-3.07

Test mode: IEEE 802.11g Channel 6, Antenna2

Power Connected Emissions					*Class B*		
Conductor	***Frequency (KHz)***	***Peak (dBμV)***	***QP (dBμV)***	***Average (dBμV)***	***QP-limit (dBμV)***	***AVG-limit (dBμV)***	***Margin (dB)***
Line 1	255.180	54.92	49.73	15.02	62.74	52.74	-13.01
	320.945	53.01	47.52	12.49	60.89	50.89	-13.37
	1346.000	33.99	---	---	56.00	46.00	-12.01
	2201.000	35.61	---	---	56.00	46.00	-10.39
	7190.000	44.12	---	---	60.00	50.00	-5.88
	15092.635	47.54	47.78	43.87	60.00	50.00	-6.13
Line 2	291.900	56.61	50.93	16.29	61.71	51.71	-10.78
	476.315	53.80	47.52	12.37	56.43	46.43	-8.91
	1303.860	45.86	39.83	3.64	56.00	46.00	-16.17
	5830.000	43.02	---	---	60.00	50.00	-6.98
	6516.375	47.36	46.02	41.68	60.00	50.00	-8.32
	16122.805	51.00	50.58	46.94	60.00	50.00	-3.06

Test mode: IEEE 802.11g Channel 11, Antenna2

Power Connected Emissions					*FCC Class B*		
Conductor	***Frequency (KHz)***	***Peak (dBμV)***	***QP (dBμV)***	***Average (dBμV)***	***QP-limit (dBμV)***	***AVG-limit (dBμV)***	***Margin (dB)***
Line 1	178.045	57.73	52.51	17.96	64.94	54.94	-12.43
	243.090	55.75	49.99	15.47	63.09	53.09	-13.10
	320.540	53.73	47.54	12.68	60.89	50.89	-13.35
	2136.000	36.12	---	---	56.00	46.00	-9.88
	6520.000	46.13	---	---	60.00	50.00	-3.87
	15093.695	47.12	47.75	44.03	60.00	50.00	-5.97
Line 2	203.160	58.39	52.83	18.13	64.29	54.29	-11.46
	332.270	56.59	50.37	15.40	60.54	50.54	-10.17
	485.135	53.45	47.30	12.40	56.17	46.17	-8.87
	1252.580	46.63	39.62	3.20	56.00	46.00	-16.38
	7190.000	45.15	---	---	60.00	50.00	-4.85
	15040.000	46.57	---	---	60.00	50.00	-3.43

V. Section 15.247 (a): Technical description of the EUT

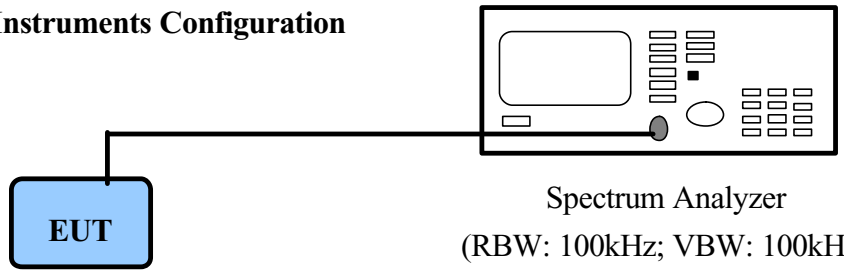
Direct Sequence System is a spread spectrum system in which the carrier has been modulated by a high speed spreading code and an information data stream. The high speed code sequence dominates the "modulating function" and is the direct cause of the wide spreading of the transmitted signal. In the operational description demonstrates the operation principles of the Baseband processor employed by the EUT, shows that which is a complete DSSS baseband processor and meets the definition of the direct sequence spread spectrum system.

VI. Section 15.247(a)(2): Bandwidth for Direct Sequence System.

6.1 Test Condition & Setup

The transmitter bandwidth measurements were performed by the contact manner. The EUT was set to transmit continuously, also various channels were investigated to find the maximum occupied bandwidth. The output of the EUT was connected to the spectrum analyzer. The bandwidth of the fundamental frequency is observed by the spectrum analyzer with 100kHz RBW and VBW.

6.2 Test Instruments Configuration



PC to control the EUT at maximal power output and channel number and set antenna kit

6.3 List of Test Instruments

Calibration Date

Instrument Name	Model	Brand	Serial No.	Next time
Spectrum Analyzer	MS2665C	ANRITSU	6200175476	11/02/05

6.4 Test Result of Bandwidth

Channel	802.11b	802.11g
01	9.60 MHz	16.64 MHz
06	9.60 MHz	16.64 MHz
11	9.56 MHz	16.64 MHz

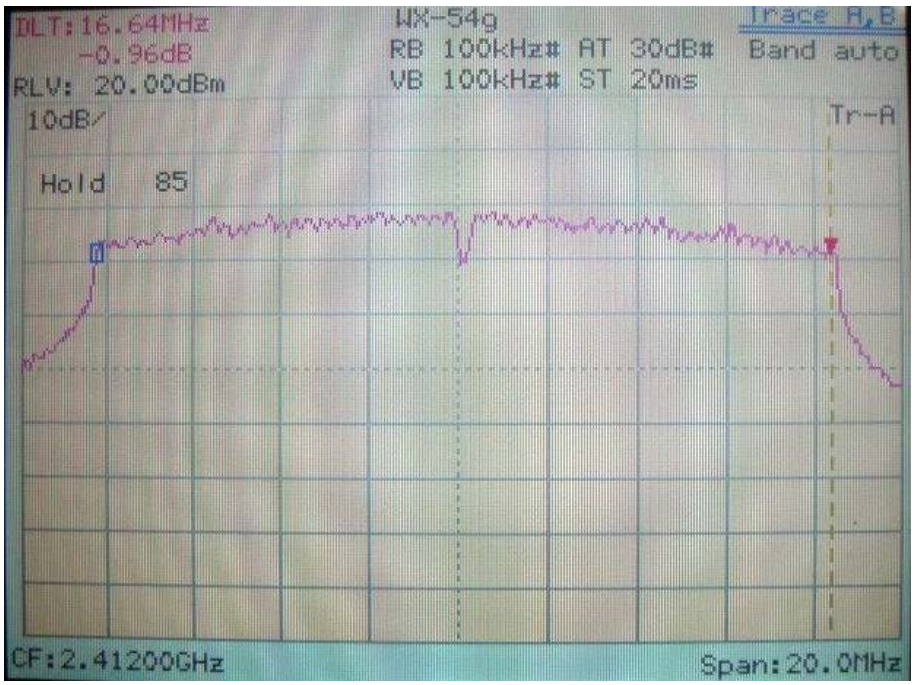
Note: 1. The data in the above table are summarizing the following attachment spectrum analyzer hard copy. According to the guidance, we' d made the measurement with the spectrum analyzer' s resolution bandwidth *(RBW)=100kHz* and set the *span>>RBW*. The results show the measured 6dB bandwidth comply with the minimum 500kHz requirement.

2. The attachments show these on the following pages.

6dB Bandwidth of Channel 1 (The minimum 6dB BW at least 500kHz)

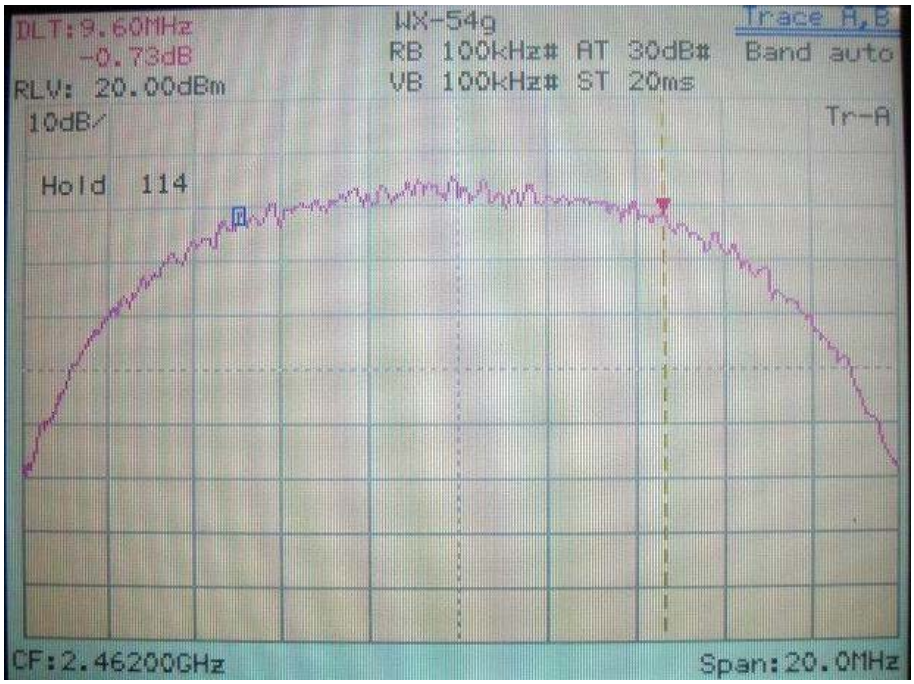
IEEE 802.11b

IEEE 802.11g

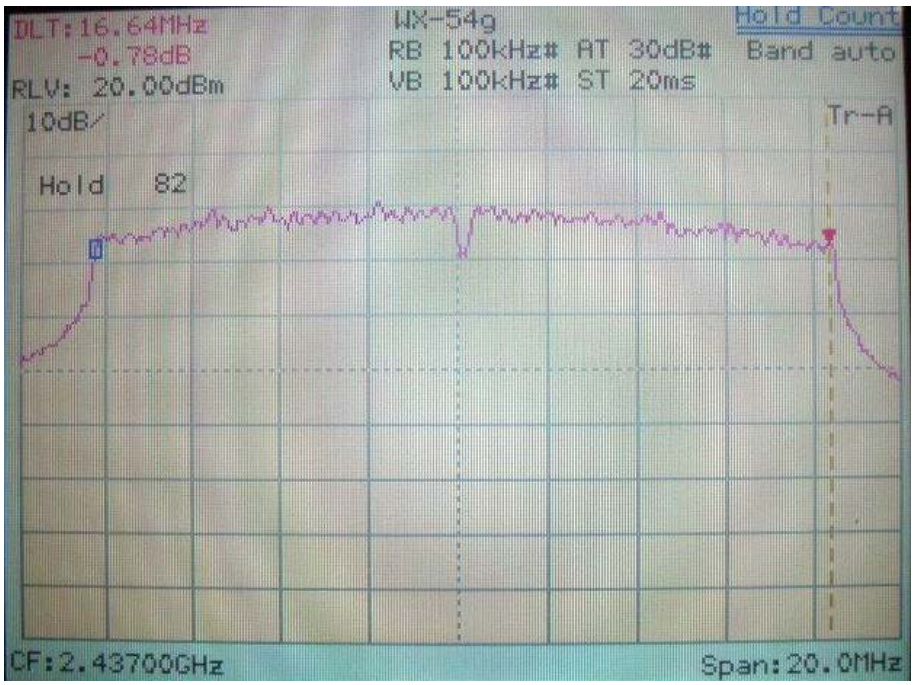


6dB Bandwidth of Channel 6 (The minimum 6dB BW at least 500kHz)

IEEE 802.11b



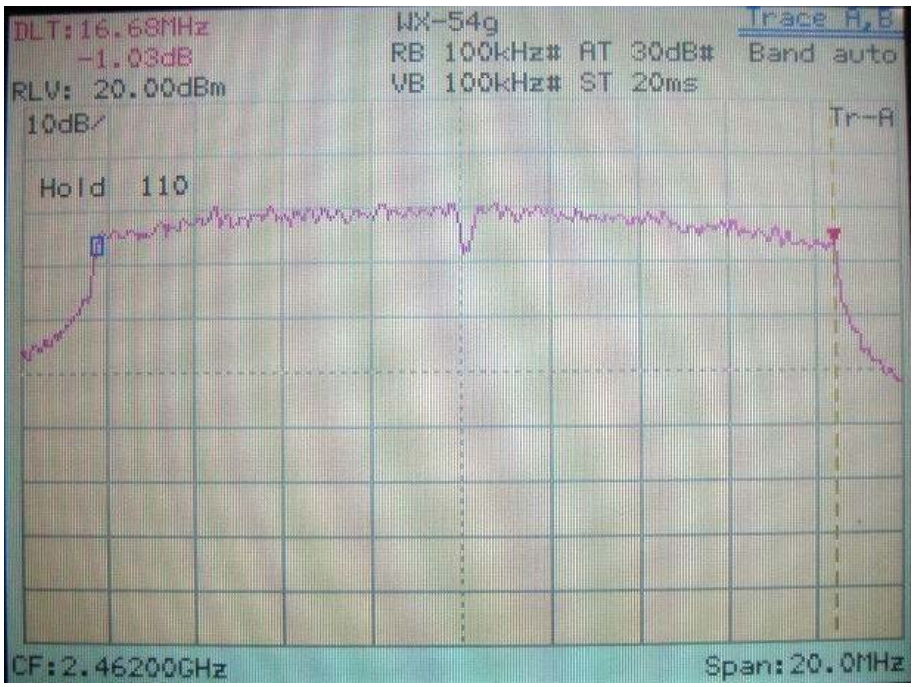
IEEE 802.11g



6dB Bandwidth of Channel 11 (The minimum 6dB BW at least 500kHz)

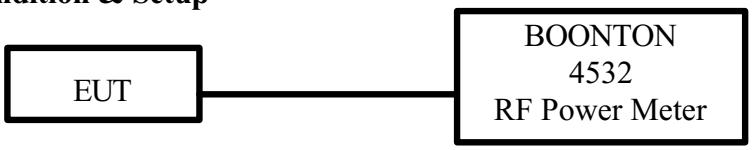
IEEE 802.11b

IEEE 802.11g



VII. Section 15.247(b): Power Output

7.1 Test Condition & Setup



1. The output of the transmitter is connected to the BOONTON RF Power Meter.
2. The calibration is performed before every test. The values of the output power of the EUT will shown in the dBm directly are the transmitter output peak power. Recording as follows.

7.2 List of Test Instruments

				Calibration Date
Instrument Name	**Model**	**Brand**	**Serial No.**	**Next time**
RF Power Meter	4532	BOONTON	117501	04/16/05
Peak Power Sensor	57340	BOONTON	2696	04/16/05

7.3 Test Result

Formula:

RF Output of EUT + |Cable Loss| = Output Peak Power

Channel	**RF Output**	**Cable Loss**	**Output Peak Power**	
	dBm	**dBm**	**dBm**	**mW**
802.11b CH01	18.87	0.70	19.57	90.57
802.11b CH06	19.94	0.70	20.64	115.88
802.11b CH11	17.73	0.70	18.43	69.66
802.11g CH01	26.76	0.70	27.46	557.19
802.11g CH06	25.79	0.70	26.49	445.66
802.11g CH11	24.40	0.70	25.10	323.59

VIII. Section 15.247 (C): Spurious Emissions (Radiated)

8.1 Test Condition & Setup

We' d performed the test by the *radiated emission* skill: The EUT was placed in an anechoic chamber, and set the EUT transmitting continuously and scanned at 3-meter distance to determine its emission characteristics. The physical arrangement of the EUT was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude, directivity, and frequency. The exact system configuration, which produced the highest emissions was noted so it could be reproduced later during the final tests. For the measurement above 1GHz, according to the guidance we' d set the spectrum analyzer's 6dB bandwidth RBW to 1MHz.

This was done to ensure that the final measurements would demonstrate the worst-case interference potential of the EUT.

Final radiation measurements were made on a three-meter, anechoic chamber. The EUT system was placed on a nonconductive turntable, which is 0.8 meters height, top surface 1.0 x 1.5 meter.

The spectrum was examined from 30 MHz to 1000 MHz using an Hewlett Packard 85460A EMI Receiver, SCHWARZECK whole range Small Biconical Antenna (Model No.: UBAA9114 & BBVU9135) is used to measure frequency from 30 MHz to 1GHz. The final test is used the HP 85460A spectrum and 8564E spectrum was examined from 1GHz to 25GHz using an Hewlett Packard Spectrum Analyzer, EMCO/HP Horn Antenna (Model 3115 / 84125-80008) for 1G - 25GHz.

At each frequency, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. There are two spectrum analyzers use on this testing, HP 85460A for frequency 30MHz to 1000MHz, and 8564E for frequency 1GHz to 25GHz. No post-detector video filters were used in the test. The spectrum analyzer's 6dB bandwidth was set to 120KHz (spectrum was examined from 30 MHz to 1000 MHz), the spectrum analyzer's 6 dB bandwidth was set to 1 MHz (spectrum was examined from 1GHz to 25GHz) and the analyzer was operated in the maximum hold mode. There is a test condition applies in this test item, the test procedure description as the following:

Three channels were tested, one in the top (CH01), one in the middle (CH06) and the other in bottom (CH11). The setting up procedure is recorded on <1.3>

With the transmitter operating from a AC source and using the internal of EUT, radiates spurious emissions falling within the restricted bands of 15.209 were measured at operating frequencies corresponding to upper, middle and bottom channels in the 2400 ~ 2483.5 MHz band.

The actual field intensity in decibels referenced to 1 microvolt per meter (dBμV/m) is determined by algebraically adding the measured reading in dBμV, the antenna factor (dB), and cable loss (dB) at the appropriate frequency. Since the EUT was set to transmit continuously, no *duty cycle* is present.

For frequency between 30MHz to 1000MHz

FIa (dBuV/m) = FIr (dBμV) + Correction Factors

FIa : Actual Field Intensity

FIr : Reading of the Field Intensity

Correction Factors = Antenna Factor + Cable Loss – Amplifier Gain + Switching Box Loss

For frequency between 1GHz to 25GHz

FIa (dBμV/m) = FIr (dBμV) + Correction Factor

FIa : Actual Field Intensity

FIr : Reading of the Field Intensity

Correction Factors = Antenna Factor + Cable Loss – Amplifier Gain + Switching Box Loss

8.2 List of Test Instruments

				Calibration Date
Instrument Name	**Model**	**Brand**	**Serial No.**	**Next time**
EMI Receiver	8546A	HP	3520A00242	08/05/05
RF Filter Section	85460A	HP	3448A00217	08/05/05
Small Biconical Antenna	UBAA9114 & BBVU9135	SCHWARZECK	127	10/11/05
Pre-amplifier	PA1F	TRC	1FAC	05/20/05
Auto Switch Box (>30MHz)	ASB-01	TRC	9904-01	05/20/05
Coaxial Cable (Double shielded, 15 meter)	A30A30-0058-50FS-15M	JYEBAO	SMA-01	05/20/05
Coaxial Cable (1.1 meter)	A30A30-0058-50FS-1M	JYEBAO	SMA-02	05/20/05
Spectrum Analyzer	8564E	HP	3720A00840	08/13/05
Microwave Preamplifier	84125C	HP	US36433002	08/13/05
Horn Antenna	3115	EMCO	9104-3668	12/27/05
Standard Guide Horn Antenna	84125-80008	HP	18-26.5GHz	10/15/05
Standard Guide Horn Antenna	84125-80001	HP	26.5-40GHz	10/15/05
Horn Antenna	1196E (3115)	HP (EMCO)	9704-5178	01/11/06
Pre-amplifier	PA2F	TRC	2F1GZ	03/20/05
Coaxial Cable (3 miter)	A30A30-0058-50FST118	JYEBAO	MSA-05	03/20/05
Coaxial Cable (1 meter)	A30A30-0058-50FST118	JYEBAO	MSA-04	03/20/05

8.3 Test Result of Spurious Radiated Emissions

The highest peak values of radiated emissions form the EUT at various antenna heights, antenna polarizations, EUT orientation, etc. are recorded on the following.

Test Conditions: Temperature : 25 ° C Humidity : 73 % RH

Test mode: Standby mode for 30MHz to 1GHz, Antenna1 [Horizontal]

Radiated Emission				*Correction Factors*	*Corrected Amplitude*	*Class B (3 m)*	
Frequency (MHz)	*Amplitude (dBμV)*	*Ant. H. (m)*	*Table (°)*	*(dB)*	*(dBμV/m)*	*Limit (dBμV/m)*	*Margin (dB)*
353.74	41.10	1.00	195	-2.60	38.50	46.00	-7.50
455.59	36.93	1.00	249	1.22	38.15	46.00	-7.85
505.30	33.05	1.00	218	3.12	36.17	46.00	-9.83
551.37	33.94	1.00	210	5.06	39.00	46.00	-7.00
740.87	26.48	1.00	229	10.26	36.74	46.00	-9.26
801.15	25.17	1.00	236	11.65	36.82	46.00	-9.18

Test mode: Standby mode for 30MHz to 1GHz, Antenna1 [Vertical]

Radiated Emission				*Correction Factors*	*Corrected Amplitude*	*Class B (3 m)*	
Frequency (MHz)	*Amplitude (dBμV)*	*Ant. H. (m)*	*Table (°)*	*(dB)*	*(dBμV/m)*	*Limit (dBμV/m)*	*Margin (dB)*
253.10	38.06	1.00	184	-4.08	33.98	46.00	-12.02
451.95	35.71	1.00	232	1.08	36.79	46.00	-9.21
484.69	34.34	1.00	202	2.32	36.66	46.00	-9.34
550.16	29.24	1.00	180	5.02	34.26	46.00	-11.74
741.74	29.41	1.00	206	10.27	39.68	46.00	-6.32
801.15	25.27	1.00	281	11.65	36.92	46.00	-9.08

Note:

1. Margin = Amplitude – Limit, *if margin is minus means under limit.*
2. Corrected Amplitude = Reading Amplitude + Correction Factors
3. Correction Factor = Antenna factor + (Cable Loss – Amplitude gain) + Switching Box Loss

Test mode: Standby mode for 1GHz to 25GHz, Antenna1 [Horizontal]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBμV*		*dB/m*	*dBμV/m*		*dBμV/m*		*dB*
1389.58	1.00	221	40.58	---	0.44	41.02	---	73.96	53.96	-12.94
2806.25	1.00	134	32.41	---	8.62	41.03	---	73.96	53.96	-12.93
6312.50	1.00	236	27.57	---	18.70	46.27	---	73.96	53.96	-7.69
9755.00	1.00	325	24.90	---	23.20	48.10	---	73.96	53.96	-5.86
22087.08	1.00	93	46.33	---	2.89	49.22	---	73.96	53.96	-4.74

Test mode: Standby mode for 1GHz to 25GHz, Antenna1 [Vertical]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBμV*		*dB/m*	*dBμV/m*		*dBμV/m*		*dB*
2707.08	1.00	222	32.41	---	8.19	40.60	---	73.96	53.96	-13.36
4307.92	1.00	300	29.57	---	12.95	42.52	---	73.96	53.96	-11.44
9818.75	1.00	190	23.41	---	23.14	46.55	---	73.96	53.96	-7.41
19374.17	1.00	313	47.49	---	1.60	49.09	---	73.96	53.96	-4.87
23918.12	1.00	254	45.83	---	3.08	48.91	---	73.96	53.96	-5.05

Note:

1. Margin = Corrected - Limit.
2. The EUT utilizes a *permanently attached antenna*. In addition the spurious RF radiated emissions levels do comply with the *20dBc limit* both at its bandedges and other spurious emissions.
3. As stated in Section 15.35(b), for any frequencies above 1000MHz, radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. As the results of our test, the peak amplitudes are already below the FCC limit. Thus the average amplitudes of the rest are omitted.

Test mode: IEEE 802.11b CH01 for 30MHz to 1GHz, Antenna1 [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)	(dB)	(dBμV/m)	Limit (dBμV/m)	Margin (dB)
353.74	39.92	1.00	199	-2.60	37.32	46.00	-8.68
453.16	37.33	1.00	230	1.13	38.46	46.00	-7.54
504.09	32.51	1.00	214	3.07	35.58	46.00	-10.42
550.16	33.83	1.00	207	5.02	38.85	46.00	-7.15
739.77	31.32	1.00	234	10.24	41.56	46.00	-4.44
801.15	24.95	1.00	245	11.65	36.60	46.00	-9.40

Test mode: IEEE 802.11b CH01 for 30MHz to 1GHz, Antenna1 [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)	(dB)	(dBμV/m)	Limit (dBμV/m)	Margin (dB)
253.10	40.76	1.00	170	-4.08	36.68	46.00	-9.32
451.95	34.71	1.00	204	1.08	35.79	46.00	-10.21
505.30	37.31	1.00	190	3.12	40.43	46.00	-5.57
551.37	31.91	1.00	290	5.06	36.97	46.00	-9.03
641.10	26.68	1.00	334	8.14	34.82	46.00	-11.18
741.74	29.64	1.00	258	10.27	39.91	46.00	-6.09

Test mode: IEEE 802.11b CH01 for 1GHz to 25GHz, Antenna1 [Horizontal]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBμV*		*dB/m*	*dBμV/m*		*dBμV/m*		*dB*
2108.33	1.00	112	40.34	---	8.39	48.73	---	73.96	53.96	-5.23
2239.58	1.00	313	37.00	---	8.76	45.76	---	73.96	53.96	-8.20
2558.33	1.00	252	37.33	---	9.60	46.93	---	73.96	53.96	-7.03
7233.75	1.00	242	36.94	---	10.07	47.01	---	73.96	53.96	-6.95
9650.42	1.00	57	36.27	---	11.47	47.74	---	73.96	53.96	-6.22
12061.04	1.00	202	39.44	---	9.81	49.25	---	73.96	53.96	-4.71

Test mode: IEEE 802.11b CH01 for 1GHz to 25GHz, Antenna1 [Vertical]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBμV*		*dB/m*	*dBμV/m*		*dBμV/m*		*dB*
2037.50	1.00	272	40.66	---	8.20	48.86	---	73.96	53.96	-5.10
2239.58	1.00	267	40.67	---	8.76	49.43	---	73.96	53.96	-4.53
2352.08	1.00	170	43.00	---	9.08	52.08	---	73.96	53.96	-1.88
2529.17	1.00	170	42.34	---	9.54	51.88	---	73.96	53.96	-2.08
4823.12	1.00	25	48.60	---	3.76	52.36	---	73.96	53.96	-1.60
7233.75	1.00	271	38.94	---	10.07	49.01	---	73.96	53.96	-4.95

Test mode: IEEE 802.11b CH06 for 30MHz to 1GHz, Antenna1 [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)	(dB)	(dBμV/m)	Limit (dBμV/m)	Margin (dB)
352.52	39.25	1.00	199	-2.64	36.61	46.00	-9.39
453.16	37.43	1.00	245	1.13	38.56	46.00	-7.44
550.16	33.90	1.00	210	5.02	38.92	46.00	-7.08
641.10	26.38	1.00	56	8.14	34.52	46.00	-11.48
739.34	31.36	1.00	214	10.23	41.59	46.00	-4.41
801.15	25.36	1.00	206	11.65	37.01	46.00	-8.99

Test mode: IEEE 802.11b CH06 for 30MHz to 1GHz, Antenna1 [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)	(dB)	(dBμV/m)	Limit (dBμV/m)	Margin (dB)
253.10	40.85	1.00	179	-4.08	36.77	46.00	-9.23
302.81	37.95	1.00	269	-3.65	34.30	46.00	-11.70
454.37	34.84	1.00	199	1.18	36.02	46.00	-9.98
504.09	35.88	1.00	184	3.07	38.95	46.00	-7.05
550.16	31.89	1.00	296	5.02	36.91	46.00	-9.09
740.52	30.56	1.00	258	10.25	40.81	46.00	-5.19

Test mode: IEEE 802.11b CH06 for 1GHz to 25GHz, Antenna1 [Horizontal]

Frequency	Ant. H.	Table	Amplitude Peak / Ave.		Correction Factor	Corrected Amplitude Peak / Ave.		Limit Peak / Ave.		Margin
MHz	m	degree	dBμV		dB/m	dBμV/m		dBμV/m		dB
2108.33	1.00	158	40.17	---	8.39	48.56	---	73.96	53.96	-5.40
2239.58	1.00	289	38.50	---	8.76	47.26	---	73.96	53.96	-6.70
2529.17	1.00	310	35.50	---	9.54	45.04	---	73.96	53.96	-8.92
7312.29	1.00	274	36.11	---	10.30	46.41	---	73.96	53.96	-7.55
9747.08	1.00	14	36.27	---	11.89	48.16	---	73.96	53.96	-5.80
12187.92	1.00	273	39.94	---	9.74	49.68	---	73.96	53.96	-4.28

Test mode: IEEE 802.11b CH06 for 1GHz to 25GHz, Antenna1 [Vertical]

Frequency	Ant. H.	Table	Amplitude Peak / Ave.		Correction Factor	Corrected Amplitude Peak / Ave.		Limit Peak / Ave.		Margin
MHz	m	degree	dBμV		dB/m	dBμV/m		dBμV/m		dB
2152.08	1.00	254	39.00	---	8.52	47.52	---	73.96	53.96	-6.44
2558.33	1.00	47	40.83	---	9.60	50.43	---	73.96	53.96	-3.53
4876.40	1.00	116	49.62	40.11	3.96	53.58	44.07	73.96	53.96	-9.89
7312.29	1.00	288	37.77	---	10.30	48.07	---	73.96	53.96	-5.89
9747.08	1.00	217	36.60	---	11.89	48.49	---	73.96	53.96	-5.47
12187.92	1.00	73	41.10	---	9.74	50.84	---	73.96	53.96	-3.12

Test mode: IEEE 802.11b CH11 for 30MHz to 1GHz, Antenna1 [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)	(dB)	(dBμV/m)	Limit (dBμV/m)	Margin (dB)
353.74	37.70	1.00	201	-2.60	35.10	46.00	-10.90
453.16	36.13	1.00	243	1.13	37.26	46.00	-8.74
550.16	33.36	1.00	210	5.02	38.38	46.00	-7.62
641.10	26.05	1.00	56	8.14	34.19	46.00	-11.81
739.97	32.06	1.00	229	10.24	42.30	46.00	-3.70
801.15	24.92	1.00	206	11.65	36.57	46.00	-9.43

Test mode: IEEE 802.11b CH11 for 30MHz to 1GHz, Antenna1 [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)	(dB)	(dBμV/m)	Limit (dBμV/m)	Margin (dB)
251.89	39.14	1.00	317	-4.05	35.09	46.00	-10.91
302.81	37.23	1.00	248	-3.65	33.58	46.00	-12.42
453.16	34.82	1.00	204	1.13	35.95	46.00	-10.05
504.09	37.05	1.00	190	3.07	40.12	46.00	-5.88
641.10	26.75	1.00	334	8.14	34.89	46.00	-11.11
740.52	30.59	1.00	258	10.25	40.84	46.00	-5.16

Test mode: IEEE 802.11b CH11 for 1GHz to 25GHz, Antenna1 [Horizontal]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBμV*		*dB/m*	*dBμV/m*		*dBμV/m*		*dB*
2108.33	1.00	98	40.50	---	8.39	48.89	---	73.96	53.96	-5.07
2608.33	1.00	306	36.50	---	9.69	46.19	---	73.96	53.96	-7.77
4925.83	1.00	319	39.61	---	4.13	43.74	---	73.96	53.96	-10.22
7384.79	1.00	119	35.44	---	10.42	45.86	---	73.96	53.96	-8.10
9849.79	1.00	198	35.78	---	11.93	47.71	---	73.96	53.96	-6.25
12308.75	1.00	199	37.77	---	9.56	47.33	---	73.96	53.96	-6.63

Test mode: IEEE 802.11b CH11 for 1GHz to 25GHz, Antenna1 [Vertical]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBμV*		*dB/m*	*dBμV/m*		*dBμV/m*		*dB*
2239.58	1.00	300	41.50	---	8.76	50.26	---	73.96	53.96	-3.70
2395.97	1.00	203	44.15	36.50	9.20	53.35	45.70	73.96	53.96	-8.26
2558.33	1.00	203	43.17	---	9.60	52.77	---	73.96	53.96	-1.19
4925.83	1.00	354	43.11	---	4.13	47.24	---	73.96	53.96	-6.72
9849.79	1.00	3	35.44	---	11.93	47.37	---	73.96	53.96	-6.59
12308.75	1.00	30	38.61	---	9.56	48.17	---	73.96	53.96	-5.79

Test mode: IEEE 802.11g CH01 for 30MHz to 1GHz, Antenna1 [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)	(dB)	(dBμV/m)	Limit (dBμV/m)	Margin (dB)
350.00	39.80	1.00	192	-2.73	37.07	46.00	-8.93
450.00	36.86	1.00	224	1.01	37.87	46.00	-8.13
550.00	34.56	1.00	199	5.01	39.57	46.00	-6.43
641.10	29.38	1.00	53	8.14	37.52	46.00	-8.48
740.20	27.26	1.00	228	10.25	37.51	46.00	-8.49
801.15	28.26	1.00	196	11.65	39.91	46.00	-6.09

Test mode: IEEE 802.11g CH01 for 30MHz to 1GHz, Antenna1 [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)	(dB)	(dBμV/m)	Limit (dBμV/m)	Margin (dB)
76.07	31.11	1.00	181	0.62	31.73	40.00	-8.27
254.31	40.94	1.00	179	-4.10	36.84	46.00	-9.16
302.81	36.80	1.00	291	-3.65	33.15	46.00	-12.85
453.16	35.71	1.00	204	1.13	36.84	46.00	-9.16
504.09	36.59	1.00	190	3.07	39.66	46.00	-6.34
741.74	29.22	1.00	258	10.27	39.49	46.00	-6.51

Test mode: IEEE 802.11g CH01 for 1GHz to 25GHz, Antenna1 [Horizontal]

Frequency	Ant. H.	Table	Amplitude Peak / Ave.		Correction Factor	Corrected Amplitude Peak / Ave.		Limit Peak / Ave.		Margin
MHz	m	degree	dBμV		dB/m	dBμV/m		dBμV/m		dB
2108.33	1.00	127	40.67	---	8.39	49.06	---	73.96	53.96	-4.90
2152.08	1.00	150	35.33	---	8.52	43.85	---	73.96	53.96	-10.11
2239.58	1.00	111	39.50	---	8.76	48.26	---	73.96	53.96	-5.70
7233.75	1.00	33	37.44	---	10.07	47.51	---	73.96	53.96	-6.45
9650.42	1.00	20	35.94	---	11.47	47.41	---	73.96	53.96	-6.55
12061.04	1.00	195	38.27	---	9.81	48.08	---	73.96	53.96	-5.88
21708.12	1.00	213	48.12	---	2.87	50.99	---	73.96	53.96	-2.97

Test mode: IEEE 802.11g CH01 for 1GHz to 25GHz, Antenna1 [Vertical]

Frequency	Ant. H.	Table	Amplitude Peak / Ave.		Correction Factor	Corrected Amplitude Peak / Ave.		Limit Peak / Ave.		Margin
MHz	m	degree	dBμV		dB/m	dBμV/m		dBμV/m		dB
2037.50	1.00	137	40.66	---	8.20	48.86	---	73.96	53.96	-5.10
2522.92	1.00	136	42.34	---	9.53	51.87	---	73.96	53.96	-2.09
2559.98	1.00	136	43.84	39.83	9.60	53.44	49.43	73.96	53.96	-4.53
4823.12	1.00	100	46.77	---	3.76	50.53	---	73.96	53.96	-3.43
7233.75	1.00	282	40.11	---	10.07	50.18	---	73.96	53.96	-3.78
12061.04	1.00	282	38.10	---	9.81	47.91	---	73.96	53.96	-6.05

Test mode: IEEE 802.11g CH06 for 30MHz to 1GHz, Antenna1 [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)	(dB)	(dBμV/m)	Limit (dBμV/m)	Margin (dB)
353.74	40.89	1.00	201	-2.60	38.29	46.00	-7.71
453.16	38.49	1.00	235	1.13	39.62	46.00	-6.38
550.00	35.30	1.00	208	5.01	40.31	46.00	-5.69
641.10	28.63	1.00	57	8.14	36.77	46.00	-9.23
740.78	28.17	1.00	220	10.26	38.43	46.00	-7.57
801.15	27.03	1.00	205	11.65	38.68	46.00	-7.32

Test mode: IEEE 802.11g CH06 for 30MHz to 1GHz, Antenna1 [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)	(dB)	(dBμV/m)	Limit (dBμV/m)	Margin (dB)
76.07	31.72	1.00	173	0.62	32.34	40.00	-7.66
203.39	36.44	1.00	184	-3.84	32.60	43.50	-10.90
253.10	39.84	1.00	170	-4.08	35.76	46.00	-10.24
453.16	35.55	1.00	204	1.13	36.68	46.00	-9.32
504.09	36.96	1.00	199	3.07	40.03	46.00	-5.97
740.52	30.19	1.00	264	10.25	40.44	46.00	-5.56

Test mode: IEEE 802.11g CH06 for 1GHz to 25GHz, Antenna1 [Horizontal]

Frequency	Ant. H.	Table	Amplitude Peak / Ave.		Correction Factor	Corrected Amplitude Peak / Ave.		Limit Peak / Ave.		Margin
MHz	m	degree	dBμV		dB/m	dBμV/m		dBμV/m		dB
2108.33	1.00	299	40.67	---	8.39	49.06	---	73.96	53.96	-4.90
2239.58	1.00	244	40.50	---	8.76	49.26	---	73.96	53.96	-4.70
7312.29	1.00	89	36.27	---	10.30	46.57	---	73.96	53.96	-7.39
9747.08	1.00	189	36.10	---	11.89	47.99	---	73.96	53.96	-5.97
12187.92	1.00	131	40.27	---	9.74	50.01	---	73.96	53.96	-3.95
21934.79	1.00	29	47.41	---	3.09	50.50	---	73.96	53.96	-3.46

Test mode: IEEE 802.11g CH06 for 1GHz to 25GHz, Antenna1 [Vertical]

Frequency	Ant. H.	Table	Amplitude Peak / Ave.		Correction Factor	Corrected Amplitude Peak / Ave.		Limit Peak / Ave.		Margin
MHz	m	degree	dBμV		dB/m	dBμV/m		dBμV/m		dB
2062.50	1.00	253	38.16	---	8.27	46.43	---	73.96	53.96	-7.53
2239.58	1.00	225	40.00	---	8.76	48.76	---	73.96	53.96	-5.20
2352.08	1.00	150	41.83	---	9.08	50.91	---	73.96	53.96	-3.05
2559.97	1.00	115	44.17	39.83	9.60	53.77	49.43	73.96	53.96	-4.53
4875.80	1.00	112	49.26	37.61	3.96	53.22	41.57	73.96	53.96	-12.39
7312.29	1.00	297	39.77	---	10.30	50.07	---	73.96	53.96	-3.89

Test mode: IEEE 802.11g CH11 for 30MHz to 1GHz, Antenna1 [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)	(dB)	(dBμV/m)	Limit (dBμV/m)	Margin (dB)
353.74	40.56	1.00	197	-2.60	37.96	46.00	-8.04
450.00	37.88	1.00	230	1.01	38.89	46.00	-7.11
550.00	34.96	1.00	208	5.01	39.97	46.00	-6.03
641.10	27.56	1.00	57	8.14	35.70	46.00	-10.30
738.99	28.17	1.00	220	10.23	38.40	46.00	-7.60
801.15	26.75	1.00	205	11.65	38.40	46.00	-7.60

Test mode: IEEE 802.11g CH11 for 30MHz to 1GHz, Antenna1 [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)	(dB)	(dBμV/m)	Limit (dBμV/m)	Margin (dB)
76.07	31.14	1.00	165	0.62	31.76	40.00	-8.24
251.89	41.45	1.00	168	-4.05	37.40	46.00	-8.60
453.16	35.10	1.00	203	1.13	36.23	46.00	-9.77
504.09	37.10	1.00	189	3.07	40.17	46.00	-5.83
741.74	30.45	1.00	258	10.27	40.72	46.00	-5.28
801.15	27.33	1.00	183	11.65	38.98	46.00	-7.02

Test mode: IEEE 802.11g CH11 for 1GHz to 25GHz, Antenna1 [Horizontal]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBμV*		*dB/m*	*dBμV/m*		*dBμV/m*		*dB*
2108.33	1.00	121	41.00	---	8.39	49.39	---	73.96	53.96	-4.57
2239.58	1.00	296	40.00	---	8.76	48.76	---	73.96	53.96	-5.20
2560.42	1.00	302	37.34	---	9.60	46.94	---	73.96	53.96	-7.02
7384.79	1.00	256	34.78	---	10.42	45.20	---	73.96	53.96	-8.76
8949.79	1.00	17	36.61	---	11.93	48.54	---	73.96	53.96	-5.42
12308.75	1.00	252	38.27	---	9.56	47.83	---	73.96	53.96	-6.13

Test mode: IEEE 802.11g CH11 for 1GHz to 25GHz, Antenna1 [Vertical]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBμV*		*dB/m*	*dBμV/m*		*dBμV/m*		*dB*
2087.50	1.00	331	37.83	---	8.34	46.17	---	73.96	53.96	-7.79
2152.08	1.00	206	38.33	---	8.52	46.85	---	73.96	53.96	-7.11
2239.58	1.00	298	41.00	---	8.76	49.76	---	73.96	53.96	-4.20
2560.42	1.00	187	42.17	---	9.60	51.77	---	73.96	53.96	-2.19
9849.79	1.00	98	35.61	---	11.93	47.54	---	73.96	53.96	-6.42
12308.75	1.00	304	37.94	---	9.56	47.50	---	73.96	53.96	-6.46

Test mode: Standby mode for 30MHz to 1GHz, Antenna2 [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)	(dB)	(dBμV/m)	Limit (dBμV/m)	Margin (dB)
160.95	37.20	1.00	308	-3.50	33.70	43.50	-9.80
250.03	45.65	1.00	252	-4.01	41.64	46.00	-4.36
350.00	45.17	1.00	216	-2.73	42.44	46.00	-3.56
450.00	38.88	1.00	224	1.01	39.89	46.00	-6.11
550.16	33.32	1.00	12	5.02	38.34	46.00	-7.66
739.37	26.93	1.00	28	10.23	37.16	46.00	-8.84

Test mode: Standby mode for 30MHz to 1GHz, Antenna2 [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)	(dB)	(dBμV/m)	Limit (dBμV/m)	Margin (dB)
68.80	28.67	1.00	188	1.45	30.12	40.00	-9.88
251.89	42.01	1.00	84	-4.05	37.96	46.00	-8.04
310.09	40.71	1.00	228	-3.51	37.20	46.00	-8.80
351.31	42.19	1.00	280	-2.68	39.51	46.00	-6.49
451.95	35.15	1.00	256	1.08	36.23	46.00	-9.77
739.80	31.39	1.00	356	10.24	41.63	46.00	-4.37

Test mode: Standby mode for 1GHz to 25GHz, Antenna2 [Horizontal]

Frequency	*Ant. H.*	*Table*	*Amplitude*		*Correction Factor*	*Corrected Amplitude*		*Limit*		*Margin*
			Peak / Ave.			*Peak / Ave.*		*Peak / Ave.*		
MHz	*m*	*degree*	*dBμV*		*dB/m*	*dBμV/m*		*dBμV/m*		*dB*
1382.50	1.00	218	39.74	---	0.47	40.21	---	73.96	53.96	-13.75
2600.83	1.00	69	32.74	---	7.63	40.37	---	73.96	53.96	-13.59
5179.17	1.00	78	27.91	---	15.97	43.88	---	73.96	53.96	-10.08
9670.00	1.00	243	24.08	---	23.07	47.15	---	73.96	53.96	-6.81
21846.25	1.00	313	47.32	---	2.86	50.18	---	73.96	53.96	-3.78
23861.46	1.00	235	46.16	---	3.45	49.61	---	73.96	53.96	-4.35

Test mode: Standby mode for 1GHz to 25GHz, Antenna2 [Vertical]

Frequency	*Ant. H.*	*Table*	*Amplitude*		*Correction Factor*	*Corrected Amplitude*		*Limit*		*Margin*
			Peak / Ave.			*Peak / Ave.*		*Peak / Ave.*		
MHz	*m*	*degree*	*dBμV*		*dB/m*	*dBμV/m*		*dBμV/m*		*dB*
1396.67	1.00	222	36.41	---	0.41	36.82	---	73.96	53.96	-17.14
3047.08	1.00	67	29.91	---	9.31	39.22	---	73.96	53.96	-14.74
6007.92	1.00	129	25.91	---	18.00	43.91	---	73.96	53.96	-10.05
9953.33	1.00	144	23.07	---	22.98	46.05	---	73.96	53.96	-7.91
19760.21	1.00	352	47.99	---	1.90	49.89	---	73.96	53.96	-4.07
24711.46	1.00	212	46.82	---	2.75	49.57	---	73.96	53.96	-4.39

Test mode: IEEE 802.11b CH01 for 30MHz to 1GHz, Antenna2 [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)	(dB)	(dBμV/m)	Limit (dBμV/m)	Margin (dB)
250.03	45.67	1.00	246	-4.01	41.66	46.00	-4.34
350.00	45.10	1.00	206	-2.73	42.37	46.00	-3.63
450.00	38.91	1.00	220	1.01	39.92	46.00	-6.08
550.16	33.46	1.00	13	5.02	38.48	46.00	-7.52
739.12	26.48	1.00	36	10.23	36.71	46.00	-9.29
801.15	26.59	1.00	169	11.65	38.24	46.00	-7.76

Test mode: IEEE 802.11b CH01 for 30MHz to 1GHz, Antenna2 [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)	(dB)	(dBμV/m)	Limit (dBμV/m)	Margin (dB)
251.89	40.24	1.00	108	-4.05	36.19	46.00	-9.81
321.00	40.56	1.00	272	-3.30	37.26	46.00	-8.74
351.31	41.38	1.00	40	-2.68	38.70	46.00	-7.30
451.95	35.64	1.00	256	1.08	36.72	46.00	-9.28
550.16	31.22	1.00	12	5.02	36.24	46.00	-9.76
739.11	25.49	1.00	16	10.23	35.72	46.00	-10.28

Test mode: IEEE 802.11b CH01 for 1GHz to 25GHz, Antenna2 [Horizontal]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBμV*		*dB/m*	*dBμV/m*		*dBμV/m*		*dB*
2037.50	1.00	219	40.33	---	8.20	48.53	---	73.96	53.96	-5.43
2108.33	1.00	277	40.00	---	8.39	48.39	---	73.96	53.96	-5.57
2239.58	1.00	301	37.67	---	8.76	46.43	---	73.96	53.96	-7.53
2560.42	1.00	45	40.00	---	9.60	49.60	---	73.96	53.96	-4.36
9650.42	1.00	55	36.77	---	11.47	48.24	---	73.96	53.96	-5.72
12061.04	1.00	330	38.44	---	9.81	48.25	---	73.96	53.96	-5.71

Test mode: IEEE 802.11b CH01 for 1GHz to 25GHz, Antenna2 [Vertical]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBμV*		*dB/m*	*dBμV/m*		*dBμV/m*		*dB*
2037.50	1.00	115	41.33	---	8.20	49.53	---	73.96	53.96	-4.43
2239.58	1.00	197	40.00	---	8.76	48.76	---	73.96	53.96	-5.20
2559.97	1.00	46	44.33	42.00	9.60	53.93	51.60	73.96	53.96	-2.36
4823.12	1.00	221	48.44	---	3.76	52.20	---	73.96	53.96	-1.76
7233.75	1.00	342	41.78	---	10.07	51.85	---	73.96	53.96	-2.11
9650.42	1.00	210	37.44	---	11.47	48.91	---	73.96	53.96	-5.05

Test mode: IEEE 802.11b CH06 for 30MHz to 1GHz, Antenna2 [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)	(dB)	(dBμV/m)	Limit (dBμV/m)	Margin (dB)
250.03	45.49	1.00	245	-4.01	41.48	46.00	-4.52
350.00	44.99	1.00	206	-2.73	42.26	46.00	-3.74
450.00	38.91	1.00	222	1.01	39.92	46.00	-6.08
482.26	35.00	1.00	229	2.23	37.23	46.00	-8.77
550.16	33.72	1.00	356	5.02	38.74	46.00	-7.26
739.49	26.72	1.00	32	10.24	36.96	46.00	-9.04

Test mode: IEEE 802.11b CH06 for 30MHz to 1GHz, Antenna2 [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)	(dB)	(dBμV/m)	Limit (dBμV/m)	Margin (dB)
67.59	28.85	1.00	212	1.55	30.40	40.00	-9.60
251.89	40.06	1.00	24	-4.05	36.01	46.00	-9.99
351.31	41.04	1.00	292	-2.68	38.36	46.00	-7.64
451.95	35.55	1.00	256	1.08	36.63	46.00	-9.37
550.16	30.99	1.00	304	5.02	36.01	46.00	-9.99
739.22	25.35	1.00	16	10.23	35.58	46.00	-10.42

Test mode: IEEE 802.11b CH06 for 1GHz to 25GHz, Antenna2 [Horizontal]

Frequency	Ant. H.	Table	Amplitude Peak / Ave.		Correction Factor	Corrected Amplitude Peak / Ave.		Limit Peak / Ave.		Margin
MHz	m	degree	dBμV		dB/m	dBμV/m		dBμV/m		dB
2062.50	1.00	242	39.50	---	8.27	47.77	---	73.96	53.96	-6.19
2108.33	1.00	293	40.67	---	8.39	49.06	---	73.96	53.96	-4.90
2560.42	1.00	184	41.34	---	9.60	50.94	---	73.96	53.96	-3.02
7312.29	1.00	248	36.61	---	10.30	46.91	---	73.96	53.96	-7.05
9747.08	1.00	275	35.77	---	11.89	47.66	---	73.96	53.96	-6.30
12187.92	1.00	289	40.27	---	9.74	50.01	---	73.96	53.96	-3.95

Test mode: IEEE 802.11b CH06 for 1GHz to 25GHz, Antenna2 [Vertical]

Frequency	Ant. H.	Table	Amplitude Peak / Ave.		Correction Factor	Corrected Amplitude Peak / Ave.		Limit Peak / Ave.		Margin
MHz	m	degree	dBμV		dB/m	dBμV/m		dBμV/m		dB
2062.50	1.00	178	39.66	---	8.27	47.93	---	73.96	53.96	-6.03
2239.58	1.00	206	39.00	---	8.76	47.76	---	73.96	53.96	-6.20
2399.98	1.00	148	46.00	38.50	9.21	55.21	47.71	73.96	53.96	-6.25
2559.97	1.00	161	43.84	41.33	9.60	53.44	50.93	73.96	53.96	-3.03
4871.46	1.00	164	48.94	---	3.95	52.89	---	73.96	53.96	-1.07
12187.92	1.00	207	39.94	---	9.74	49.68	---	73.96	53.96	-4.28

Test mode: IEEE 802.11b CH11 for 30MHz to 1GHz, Antenna2 [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)	(dB)	(dBμV/m)	Limit (dBμV/m)	Margin (dB)
250.03	45.74	1.00	248	-4.01	41.73	46.00	-4.27
350.00	44.78	1.00	224	-2.73	42.05	46.00	-3.95
450.00	38.81	1.00	232	1.01	39.82	46.00	-6.18
550.16	33.30	1.00	356	5.02	38.32	46.00	-7.68
650.80	27.30	1.00	24	8.48	35.78	46.00	-10.22
739.10	26.51	1.00	28	10.23	36.74	46.00	-9.26

Test mode: IEEE 802.11b CH11 for 30MHz to 1GHz, Antenna2 [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)	(dB)	(dBμV/m)	Limit (dBμV/m)	Margin (dB)
251.89	40.40	1.00	103	-4.05	36.35	46.00	-9.65
351.31	41.08	1.00	320	-2.68	38.40	46.00	-7.60
451.95	35.15	1.00	253	1.08	36.23	46.00	-9.77
550.16	32.20	1.00	292	5.02	37.22	46.00	-8.78
601.09	29.07	1.00	288	6.71	35.78	46.00	-10.22
740.35	25.16	1.00	352	10.25	35.41	46.00	-10.59

Test mode: IEEE 802.11b CH11 for 1GHz to 25GHz, Antenna2 [Horizontal]

Frequency	Ant. H.	Table	Amplitude Peak / Ave.		Correction Factor	Corrected Amplitude Peak / Ave.		Limit Peak / Ave.		Margin
MHz	m	degree	dBμV		dB/m	dBμV/m		dBμV/m		dB
2108.33	1.00	290	40.00	---	8.39	48.39	---	73.96	53.96	-5.57
2239.58	1.00	145	36.67	---	8.76	45.43	---	73.96	53.96	-8.53
2558.33	1.00	70	37.50	---	9.60	47.10	---	73.96	53.96	-6.86
9849.79	1.00	183	35.78	---	11.93	47.71	---	73.96	53.96	-6.25
12308.75	1.00	312	38.44	---	9.56	48.00	---	73.96	53.96	-5.96
24619.37	1.00	212	46.29	---	3.01	49.30	---	73.96	53.96	-4.66

Test mode: IEEE 802.11b CH11 for 1GHz to 25GHz, Antenna2 [Vertical]

Frequency	Ant. H.	Table	Amplitude Peak / Ave.		Correction Factor	Corrected Amplitude Peak / Ave.		Limit Peak / Ave.		Margin
MHz	m	degree	dBμV		dB/m	dBμV/m		dBμV/m		dB
2087.50	1.00	157	39.50	---	8.34	47.84	---	73.96	53.96	-6.12
2239.58	1.00	291	38.17	---	8.76	46.93	---	73.96	53.96	-7.03
2559.96	1.00	157	45.00	42.00	9.60	54.60	51.60	73.96	53.96	-2.36
2991.67	1.00	99	39.50	---	10.41	49.91	---	73.96	53.96	-4.05
4925.83	1.00	200	44.11	---	4.13	48.24	---	73.96	53.96	-5.72
9849.79	1.00	63	36.44	---	11.93	48.37	---	73.96	53.96	-5.59

Test mode: IEEE 802.11g CH01 for 30MHz to 1GHz, Antenna2 [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)	(dB)	(dBμV/m)	Limit (dBμV/m)	Margin (dB)
99.11	34.94	1.00	120	-1.15	33.79	43.50	-9.71
250.03	45.60	1.00	256	-4.01	41.59	46.00	-4.41
350.00	44.75	1.00	216	-2.73	42.02	46.00	-3.98
450.00	38.84	1.00	220	1.01	39.85	46.00	-6.15
550.16	33.20	1.00	8	5.02	38.22	46.00	-7.78
739.55	26.46	1.00	36	10.24	36.70	46.00	-9.30

Test mode: IEEE 802.11g CH01 for 30MHz to 1GHz, Antenna2 [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)	(dB)	(dBμV/m)	Limit (dBμV/m)	Margin (dB)
71.22	28.90	1.00	186	1.2	30.10	40.00	-9.90
251.89	41.23	1.00	53	-4.05	37.18	46.00	-8.82
351.31	41.43	1.00	283	-2.68	38.75	46.00	-7.25
451.95	35.22	1.00	255	1.08	36.30	46.00	-9.70
550.16	31.11	1.00	360	5.02	36.13	46.00	-9.87
739.60	30.73	1.00	352	10.24	40.97	46.00	-5.03

Test mode: IEEE 802.11g CH01 for 1GHz to 25GHz, Antenna2 [Horizontal]

Frequency	Ant. H.	Table	Amplitude Peak / Ave.		Correction Factor	Corrected Amplitude Peak / Ave.		Limit Peak / Ave.		Margin
MHz	m	degree	dBμV		dB/m	dBμV/m		dBμV/m		dB
2037.50	1.00	292	41.50	---	8.20	49.70	---	73.96	53.96	-4.26
2108.33	1.00	151	40.67	---	8.39	49.06	---	73.96	53.96	-4.90
7239.79	1.00	137	36.94	---	10.11	47.05	---	73.96	53.96	-6.91
9650.42	1.00	5	36.44	---	11.47	47.91	---	73.96	53.96	-6.05
12061.04	1.00	236	38.77	---	9.81	48.58	---	73.96	53.96	-5.38
21708.12	1.00	212	47.97	---	2.87	50.84	---	73.96	53.96	-3.12

Test mode: IEEE 802.11g CH01 for 1GHz to 25GHz, Antenna2 [Vertical]

Frequency	Ant. H.	Table	Amplitude Peak / Ave.		Correction Factor	Corrected Amplitude Peak / Ave.		Limit Peak / Ave.		Margin
MHz	m	degree	dBμV		dB/m	dBμV/m		dBμV/m		dB
2037.50	1.00	117	44.16	---	8.20	52.36	---	73.96	53.96	-1.60
2152.08	1.00	84	39.50	---	8.52	48.02	---	73.96	53.96	-5.94
2559.97	1.00	360	45.17	42.33	9.60	54.77	51.93	73.96	53.96	-2.03
7233.75	1.00	16	38.28	---	10.07	48.35	---	73.96	53.96	-5.61
9650.42	1.00	15	36.77	---	11.47	48.24	---	73.96	53.96	-5.72
12061.04	1.00	109	39.77	---	9.81	49.58	---	73.96	53.96	-4.38

Test mode: IEEE 802.11g CH06 for 30MHz to 1GHz, Antenna2 [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)	(dB)	(dBμV/m)	Limit (dBμV/m)	Margin (dB)
160.95	36.94	1.00	312	-3.50	33.44	43.50	-10.06
250.03	45.74	1.00	264	-4.01	41.73	46.00	-4.27
350.00	44.61	1.00	220	-2.73	41.88	46.00	-4.12
450.00	38.86	1.00	228	1.01	39.87	46.00	-6.13
550.16	33.20	1.00	360	5.02	38.22	46.00	-7.78
739.70	26.23	1.00	32	10.24	36.47	46.00	-9.53

Test mode: IEEE 802.11g CH06 for 30MHz to 1GHz, Antenna2 [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)	(dB)	(dBμV/m)	Limit (dBμV/m)	Margin (dB)
251.89	40.36	1.00	47	-4.05	36.31	46.00	-9.69
322.21	39.45	1.00	214	-3.27	36.18	46.00	-9.82
351.31	42.74	1.00	320	-2.68	40.06	46.00	-5.94
451.95	35.41	1.00	277	1.08	36.49	46.00	-9.51
550.16	30.53	1.00	300	5.02	35.55	46.00	-10.45
739.16	31.40	1.00	352	10.23	41.63	46.00	-4.37

Test mode: IEEE 802.11g CH06 for 1GHz to 25GHz, Antenna2 [Horizontal]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBμV*		*dB/m*	*dBμV/m*		*dBμV/m*		*dB*
2108.33	1.00	135	41.00	---	8.39	49.39	---	73.96	53.96	-4.57
2558.33	1.00	175	39.33	---	9.60	48.93	---	73.96	53.96	-5.03
9747.08	1.00	318	35.94	---	11.89	47.83	---	73.96	53.96	-6.13
12187.92	1.00	172	39.44	---	9.74	49.18	---	73.96	53.96	-4.78
21934.79	1.00	32	47.55	---	3.09	50.64	---	73.96	53.96	-3.32
24371.46	1.00	352	46.85	---	3.26	50.11	---	73.96	53.96	-3.85

Test mode: IEEE 802.11g CH06 for 1GHz to 25GHz, Antenna2 [Vertical]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBμV*		*dB/m*	*dBμV/m*		*dBμV/m*		*dB*
1918.75	1.00	329	37.66	---	9.36	47.02	---	73.96	53.96	-6.94
2062.50	1.00	251	41.00	---	8.27	49.27	---	73.96	53.96	-4.69
2559.97	1.00	164	45.17	42.50	9.60	54.77	52.10	73.96	53.96	-1.86
7312.29	1.00	99	36.11	---	10.30	46.41	---	73.96	53.96	-7.55
9747.08	1.00	91	37.44	---	11.89	49.33	---	73.96	53.96	-4.63
12187.92	1.00	66	40.60	---	9.74	50.34	---	73.96	53.96	-3.62

Test mode: IEEE 802.11g CH11 for 30MHz to 1GHz, Antenna2 [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)	(dB)	(dBμV/m)	Limit (dBμV/m)	Margin (dB)
160.95	36.69	1.00	304	-3.50	33.19	43.50	-10.31
250.03	45.67	1.00	248	-4.01	41.66	46.00	-4.34
350.00	44.71	1.00	216	-2.73	41.98	46.00	-4.02
450.00	38.86	1.00	236	1.01	39.87	46.00	-6.13
550.16	33.18	1.00	360	5.02	38.20	46.00	-7.80
739.60	26.30	1.00	32	10.24	36.54	46.00	-9.46

Test mode: IEEE 802.11g CH11 for 30MHz to 1GHz, Antenna2 [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table (°)	(dB)	(dBμV/m)	Limit (dBμV/m)	Margin (dB)
200.96	35.84	1.00	12	-3.82	32.02	43.50	-11.48
251.89	40.72	1.00	72	-4.05	36.67	46.00	-9.33
351.31	41.38	1.00	292	-2.68	38.70	46.00	-7.30
451.95	35.43	1.00	252	1.08	36.51	46.00	-9.49
550.16	31.87	1.00	292	5.02	36.89	46.00	-9.11
740.47	30.69	1.00	352	10.25	40.94	46.00	-5.06

Test mode: IEEE 802.11g CH11 for 1GHz to 25GHz, Antenna2 [Horizontal]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBμV*		*dB/m*	*dBμV/m*		*dBμV/m*		*dB*
2108.33	1.00	359	40.84	---	8.39	49.23	---	73.96	53.96	-4.73
4925.83	1.00	85	38.94	---	4.13	43.07	---	73.96	53.96	-10.89
7384.79	1.00	69	35.78	---	10.42	46.20	---	73.96	53.96	-7.76
9849.79	1.00	65	35.61	---	11.93	47.54	---	73.96	53.96	-6.42
12308.75	1.00	150	38.77	---	9.56	48.33	---	73.96	53.96	-5.63
24619.37	1.00	213	46.56	---	3.01	49.57	---	73.96	53.96	-4.39

Test mode: IEEE 802.11g CH11 for 1GHz to 25GHz, Antenna2 [Vertical]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBμV*		*dB/m*	*dBμV/m*		*dBμV/m*		*dB*
2087.50	1.00	237	40.66	---	8.34	49.00	---	73.96	53.96	-4.96
2154.17	1.00	0	39.34	---	8.52	47.86	---	73.96	53.96	-6.10
2395.98	1.00	159	44.16	38.17	9.20	53.36	47.37	73.96	53.96	-6.59
2559.97	1.00	158	45.50	42.50	9.60	55.10	52.10	73.96	53.96	-1.86
9849.79	1.00	119	36.28	---	11.93	48.21	---	73.96	53.96	-5.75
12308.75	1.00	338	38.27	---	9.56	47.83	---	73.96	53.96	-6.13

8.5 Test Result of the Bandedge

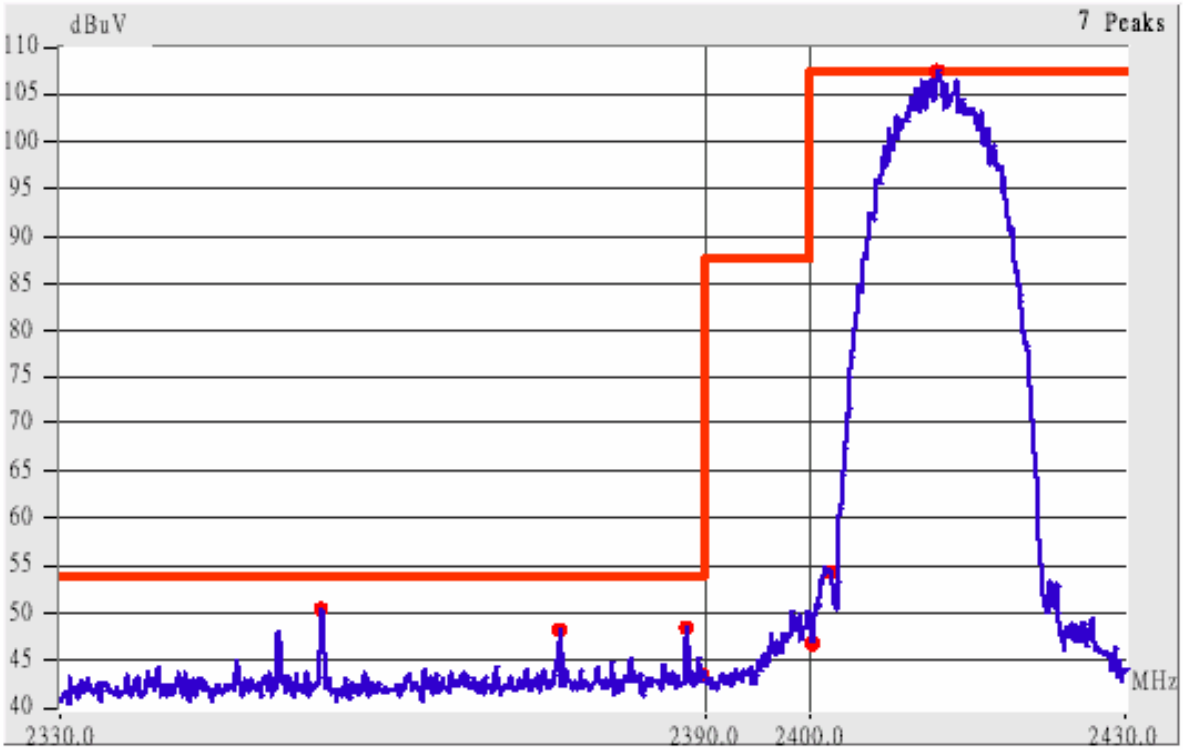
If any 100 kHz bandwidth outside these frequency bands, the radio frequency power that is produced by the modulation products of the spreading sequence, the information sequence and the carrier frequency shall be either *at least 20 dB below that in any 100 kHz bandwidth within the band that contains the highest level of the desired power or shall not exceed the general levels specified id § 15.209(a)*,

We perform this section by the *radiated manner*, the RBW is set to 100kHz and VBW>RBW. We' d made the observation *up to 10th harmonics and the criterion is all the harmonic/spurious emissions must be 20dB below the highest emission level measured.* If the emissions fall in the restricted bands stated in the Part15.205(a) must also *comply with the radiated emission limits specified in Part15.209(a). (Peak mode: RBW=VBW=1MHz, Average mode: RBW=1MHz; VBW=10Hz)*

The following pages show our observations referring to the channel 1 and 11 respectively.

Test Condition & Setup: same as < 8.1 >

Channel 1 of IEEE 802.11b, Antenna1

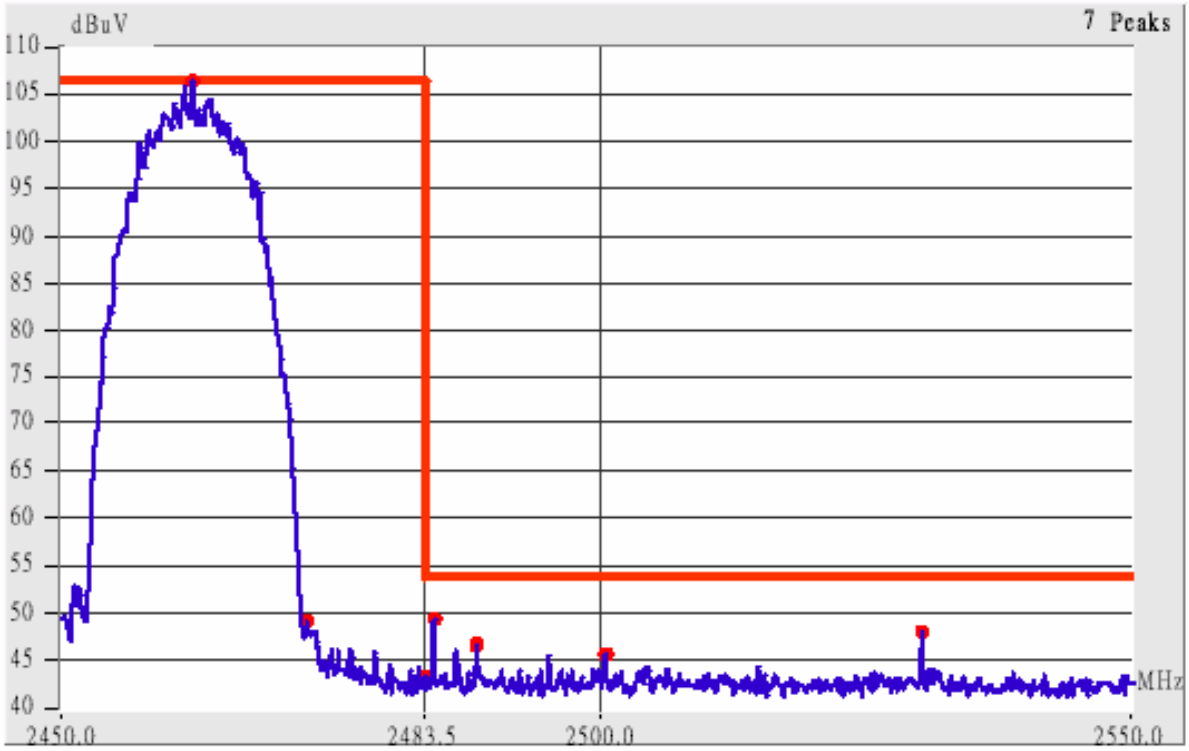


This is the hard copy of our bandedge measurement generated by our bandedge testing program. The plot shown above is the bandedge of channel 1.

1. The lobe left by the fundamental side is already 20dB below the highest emission level.
2. The emissions recorded in the restricted band is do comply with the Part 15.209(a) – as below.

Radiated Emission					*Corrected Amplitude (dBμV/m)*		*Class B (3m)*		
Frequency (MHz)	*Ant. P.*	*Ant. H. (m)*	*Table (°)*	*Factors (dB)*	*Peak*	*Average*	*Limit (dBμV/m) Peak*	*Ave.*	*Margin (dB)*
2354.00	Hor	1.00	272	9.08	45.75	---	73.96	53.96	-8.21
2376.10	Hor	1.00	329	9.14	46.98	---	73.96	53.96	-6.98
2353.94	Ver	1.00	61	9.08	51.91	---	73.96	53.96	-2.05
2375.72	Ver	1.00	260	9.14	52.31	---	73.96	53.96	-1.65
2390.02	Ver	1.00	300	9.18	49.52	---	73.96	53.96	-4.44

Channel 11 of IEEE 802.11b, Antenna1

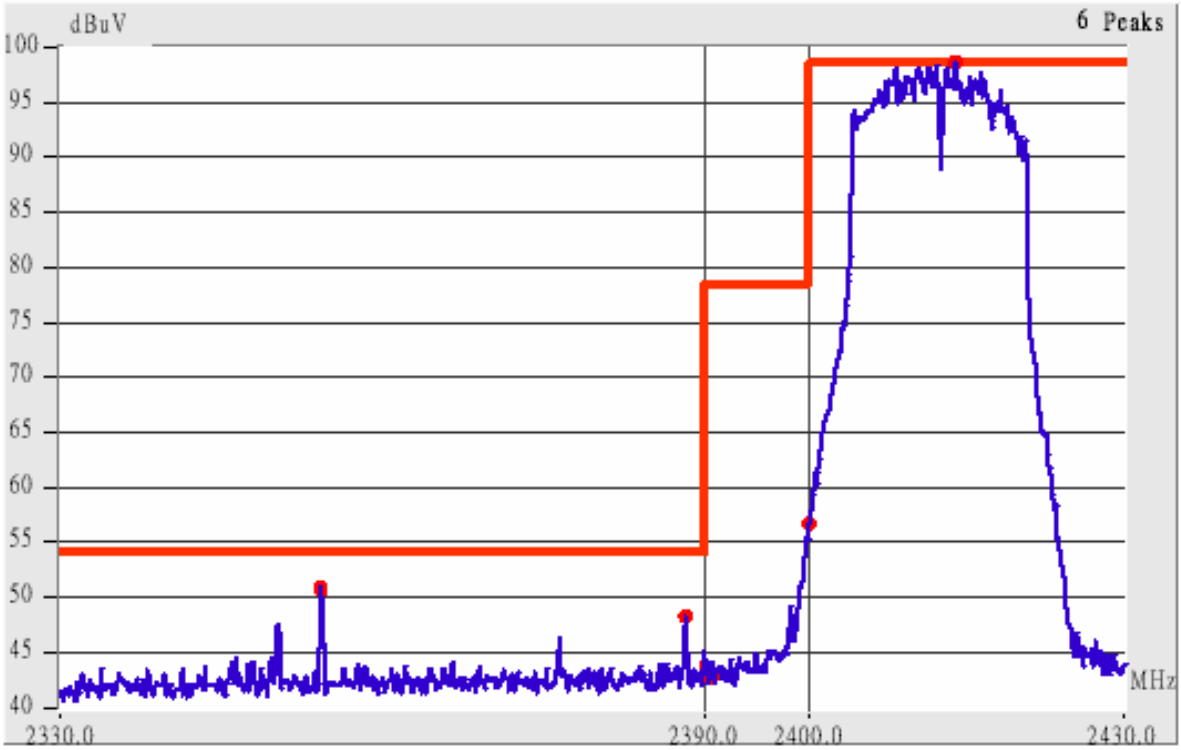


This is the hard copy of our bandedge measurement generated by our bandedge testing program. The plot shown above is the bandedge of channel 11.

3. The lobe right by the fundamental side is already 20dB below the highest emission level.
4. The emissions recorded in the restricted band is do comply with the Part 15.209(a) – as below

Radiated Emission					*Corrected Amplitude (dBμV/m)*		*Class B (3m)*		
Frequency (MHz)	*Ant. P.*	*Ant. H. (m)*	*Table (°)*	*Factors (dB)*	*Peak*	*Average*	*Limit (dBμV/m) Peak*	*Ave.*	*Margin (dB)*
2484.08	Hor	1.00	29	9.45	46.28	---	73.96	53.96	-7.68
2525.21	Hor	1.00	31	9.54	46.20	---	73.96	53.96	-7.76
2483.50	Ver	1.00	319	9.44	50.28	---	73.96	53.96	-3.68
2484.08	Ver	1.00	294	9.45	52.61	---	73.96	53.96	-1.35
2500.01	Ver	1.00	287	9.49	50.82	---	73.96	53.96	-3.14
2529.70	Ver	1.00	183	9.55	52.88	---	73.96	53.96	-1.08

Channel 1 of IEEE 802.11g, Antenna1

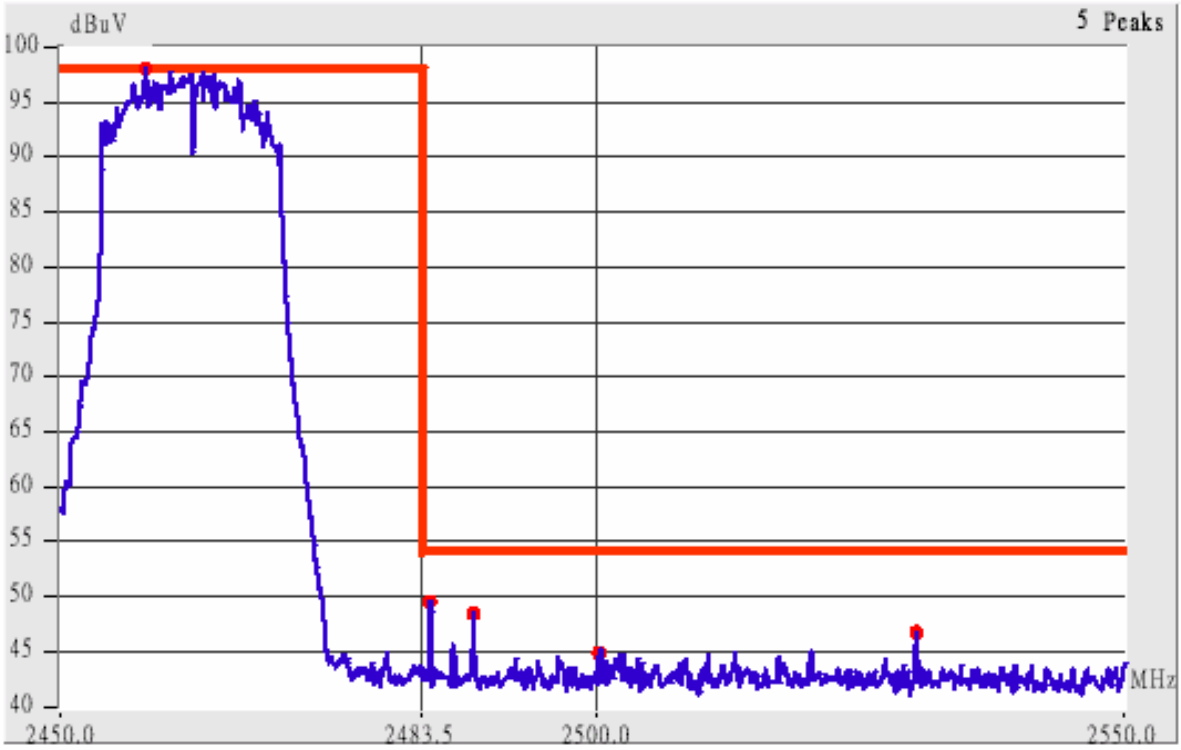


This is the hard copy of our bandedge measurement generated by our bandedge testing program. The plot shown above is the bandedge of channel 1.

5. The lobe left by the fundamental side is already 20dB below the highest emission level.
6. The emissions recorded in the restricted band is do comply with the Part 15.209(a) – as below.

Radiated Emission					*Corrected Amplitude (dBμV/m)*		*Class B (3m)*		
Frequency (MHz)	*Ant. P.*	*Ant. H. (m)*	*Table (°)*	*Factors (dB)*	*Peak*	*Average*	*Limit (dBμV/m) Peak*	*Ave.*	*Margin (dB)*
2345.87	Hor	1.00	349	9.06	46.89	---	73.96	53.96	-7.07
2388.22	Hor	1.00	285	9.18	53.01	36.01	73.96	53.96	-17.95
2390.02	Hor	1.00	195	9.18	52.18	---	73.96	53.96	-1.78
2345.98	Ver	1.00	35	9.06	54.23	45.23	73.96	53.96	-8.73
2388.07	Ver	1.00	232	9.18	60.18	43.35	73.96	53.96	-10.61
2390.13	Ver	1.00	289	9.18	56.52	40.68	73.96	53.96	-13.28

Channel 11 of IEEE 802.11g, Antenna1

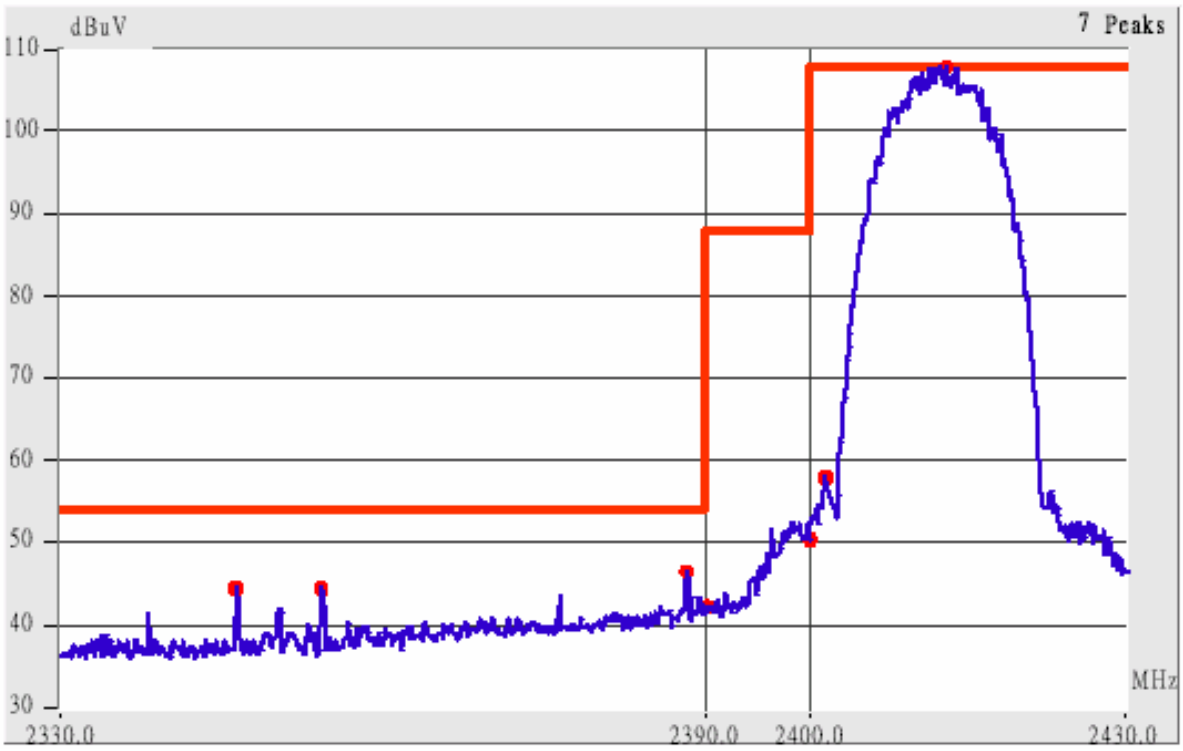


This is the hard copy of our bandedge measurement generated by our bandedge testing program. The plot shown above is the bandedge of channel 11.

7. The lobe right by the fundamental side is already 20dB below the highest emission level.
8. The emissions recorded in the restricted band is do comply with the Part 15.209(a) – as below

Radiated Emission					*Corrected Amplitude (dBμV/m)*		*Class B (3m)*		
Frequency (MHz)	*Ant. P.*	*Ant. H. (m)*	*Table (°)*	*Factors (dB)*	*Peak*	*Average*	*Limit (dBμV/m) Peak*	*Ave.*	*Margin (dB)*
2483.91	Hor	1.00	322	9.44	49.11	---	73.96	53.96	-4.85
2512.37	Hor	1.00	319	9.51	46.51	---	73.96	53.96	-7.45
2483.21	Ver	1.00	328	9.44	55.11	43.61	73.96	53.96	-10.35
2483.99	Ver	1.00	96	9.45	56.28	48.28	73.96	53.96	-5.68
2500.01	Ver	1.00	356	9.49	51.82	---	73.96	53.96	-2.14
2529.99	Ver	1.00	292	9.55	52.88	---	73.96	53.96	-1.08

Channel 1 of IEEE 802.11b, Antenna2

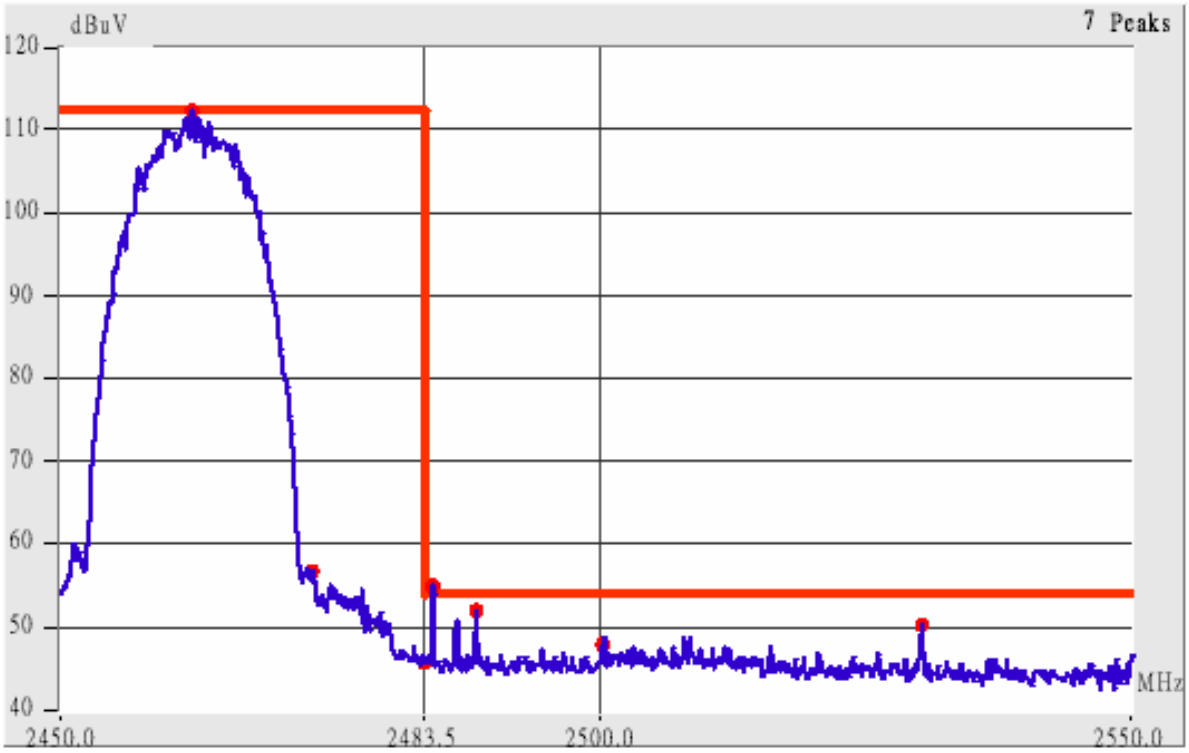


This is the hard copy of our bandedge measurement generated by our bandedge testing program. The plot shown above is the bandedge of channel 1.

1. The lobe left by the fundamental side is already 20dB below the highest emission level.
2. The emissions recorded in the restricted band is do comply with the Part 15.209(a) – as below.

Radiated Emission					*Corrected Amplitude (dBμV/m)*		*Class B (3m)*		
Frequency (MHz)	*Ant. P.*	*Ant. H. (m)*	*Table (°)*	*Factors (dB)*	*Peak*	*Average*	*Limit (dBμV/m) Peak*	*Ave.*	*Margin (dB)*
2354.05	Hor	1.00	110	9.08	47.25	---	73.96	53.96	-6.71
2388.55	Hor	1.00	21	9.18	49.34	---	73.96	53.96	-4.62
2353.94	Ver	1.00	212	9.08	51.41	---	73.96	53.96	-2.55
2380.65	Ver	1.00	113	9.16	52.82	---	73.96	53.96	-1.14
2390.02	Ver	1.00	113	9.18	49.85	---	73.96	53.96	-4.11

Channel 11 of IEEE 802.11b, Antenna2

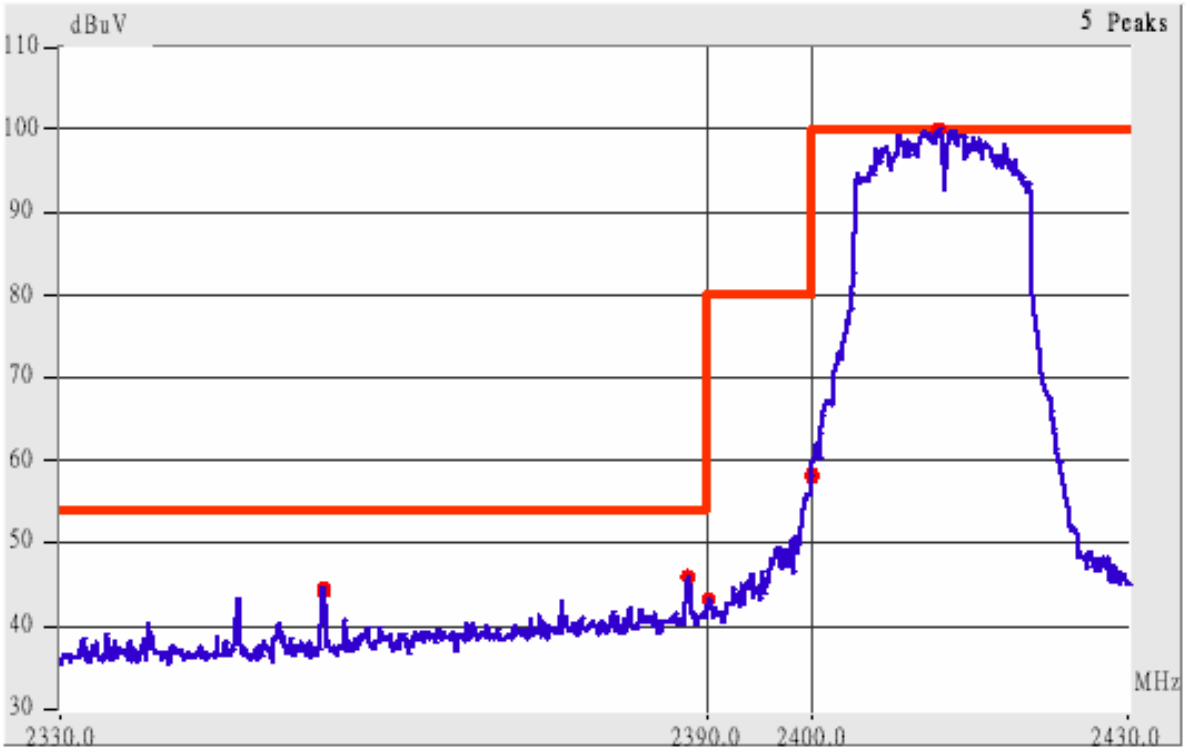


This is the hard copy of our bandedge measurement generated by our bandedge testing program. The plot shown above is the bandedge of channel 11.

3. The lobe right by the fundamental side is already 20dB below the highest emission level.
4. The emissions recorded in the restricted band is do comply with the Part 15.209(a) – as below

Radiated Emission					*Corrected Amplitude (dBμV/m)*		*Class B (3m)*		
Frequency (MHz)	*Ant. P.*	*Ant. H. (m)*	*Table (°)*	*Factors (dB)*	*Peak*	*Average*	*Limit (dBμV/m) Peak*	*Ave.*	*Margin (dB)*
2488.57	Hor	1.00	154	9.46	49.12	---	73.96	53.96	-4.84
2530.05	Hor	1.00	50	9.55	49.05	---	73.96	53.96	-4.91
2483.97	Ver	1.00	177	9.45	53.11	48.62	73.96	53.96	-5.34
2487.97	Ver	1.00	267	9.46	54.79	45.96	73.96	53.96	-8.00
2499.99	Ver	1.00	244	9.49	54.66	44.16	73.96	53.96	-9.80
2529.98	Ver	1.00	104	9.55	54.71	45.22	73.96	53.96	-8.74

Channel 1 of IEEE 802.11g, Antenna2

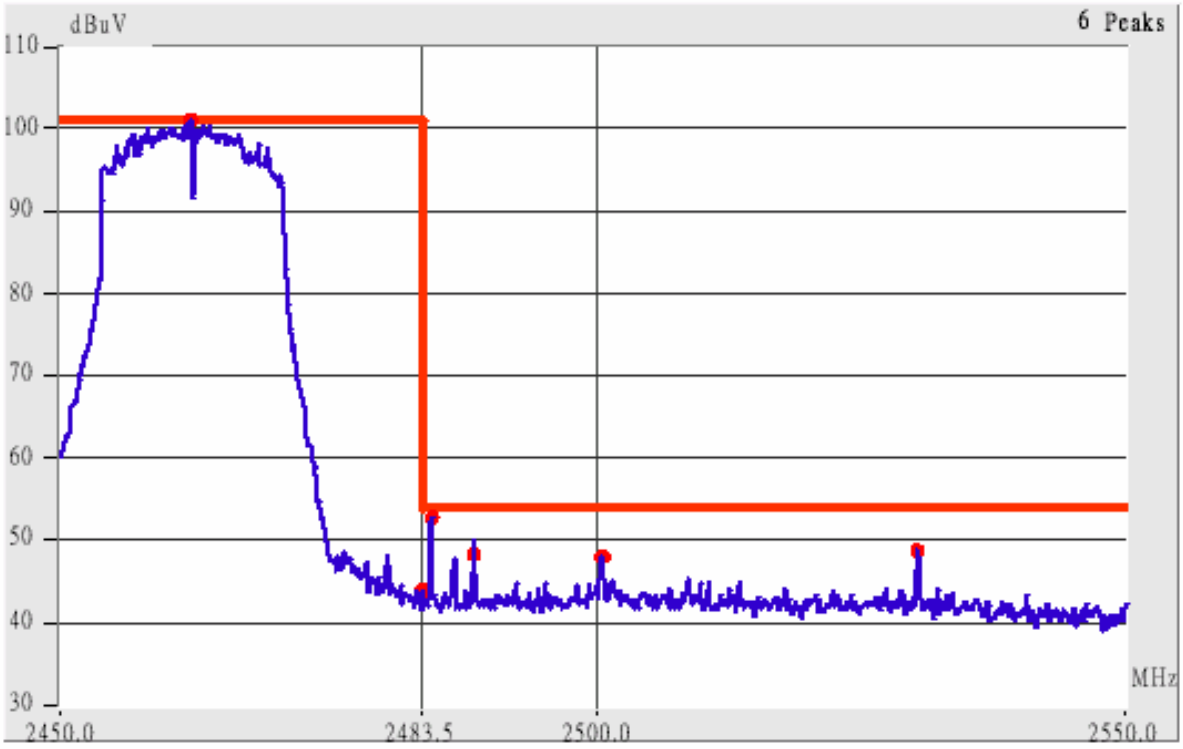


This is the hard copy of our bandedge measurement generated by our bandedge testing program. The plot shown above is the bandedge of channel 1.

5. The lobe left by the fundamental side is already 20dB below the highest emission level.
6. The emissions recorded in the restricted band is do comply with the Part 15.209(a) – as below.

Radiated Emission					*Corrected Amplitude (dBμV/m)*		*Class B (3m)*		
Frequency (MHz)	*Ant. P.*	*Ant. H. (m)*	*Table (°)*	*Factors (dB)*	*Peak*	*Average*	*Limit (dBμV/m) Peak*	*Ave.*	*Margin (dB)*
2388.84	Hor	1.00	28	9.18	58.35	38.68	73.96	53.96	-15.28
2389.43	Hor	1.00	328	9.18	56.02	38.85	73.96	53.96	-15.11
2346.30	Ver	1.00	359	9.06	51.89	---	73.96	53.96	-2.07
2388.86	Ver	1.00	1	9.18	65.35	45.8	73.96	53.96	-8.61
2389.82	Ver	1.00	33	9.18	64.18	45.68	73.96	53.96	-8.28

Channel 11 of IEEE 802.11g, Antenna2



This is the hard copy of our bandedge measurement generated by our bandedge testing program. The plot shown above is the bandedge of channel 11.

7. The lobe right by the fundamental side is already 20dB below the highest emission level.
8. The emissions recorded in the restricted band is do comply with the Part 15.209(a) – as below

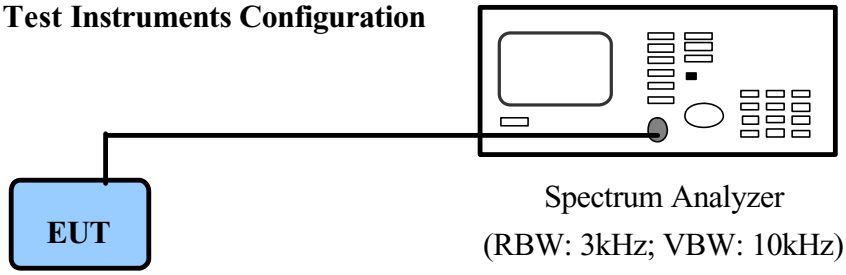
Radiated Emission					*Corrected Amplitude (dBμV/m)*		*Class B (3m)*		
Frequency (MHz)	*Ant. P.*	*Ant. H. (m)*	*Table (°)*	*Factors (dB)*	*Peak*	*Average*	*Limit (dBμV/m) Peak*	*Ave.*	*Margin (dB)*
2483.50	Hor	1.00	233	9.44	50.11	---	73.96	53.96	-3.85
2483.97	Hor	1.00	236	9.45	53.61	44.62	73.96	53.96	-9.34
2483.96	Ver	1.00	345	9.45	56.44	50.45	73.96	53.96	-3.51
2483.97	Ver	1.00	317	9.45	59.45	50.45	73.96	53.96	-3.51
2499.97	Ver	1.00	252	9.49	55.66	44.49	73.96	53.96	-9.47
2529.97	Ver	1.00	129	9.55	55.21	45.55	73.96	53.96	-8.41

IX. Section 15.247(d): Power Spectral Density

9.1 Test Condition & Setup

The tests below are running with the EUT transmitter set at high power in TDD mode. The EUT is needed to force selection of output power level and channel number. While testing, the EUT was set to transmit continuously and to be tested by the contact manner with the spectrum analyzer.

9.2 Test Instruments Configuration



PC to control the EUT at maximal power output and channel number and set antenna kit

9.3 List of Test Instruments

Instrument Name	Model No.	Brand	Serial No.	Next time
Spectrum Analyzer	MS2665C	ANRITSU	6200175476	11/02/05

9.4 Test Result of Power spectral density

The following table shows a summary of the test results of the Power Spectral Density.

Channel	*Ppr (dBm)*	*Cable Loss (dB)*	*Ppq (dBm)*	*Limit (dB)*	*Margin (dB)*
802.11b CH01	-5.95	0.70	-5.25	8.00	-13.25
802.11b CH06	-6.57	0.70	-5.87	8.00	-13.87
802.11b CH11	-8.48	0.70	-7.78	8.00	-15.78
802.11g CH01	-16.16	0.70	-15.46	8.00	-23.46
802.11g CH06	-15.68	0.70	-14.98	8.00	-22.98
802.11g CH11	-15.29	0.70	-14.59	8.00	-22.59

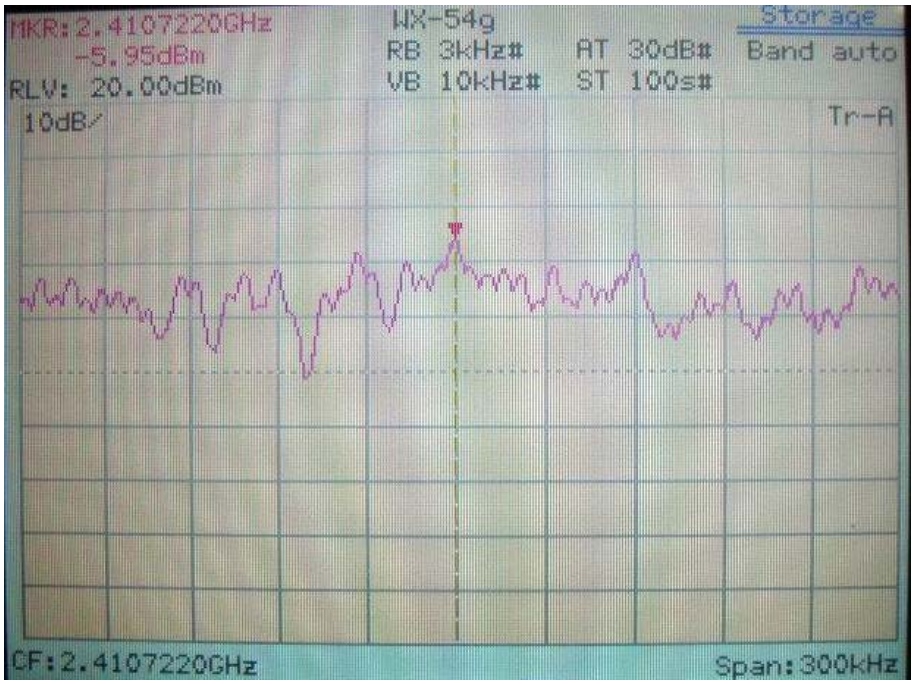
Note: 1. The following pages show the results of spectrum reading.

2. Ppr: spectrum read power density (using peak search mode),
   Ppq: actual peak power density in the spread spectrum band.

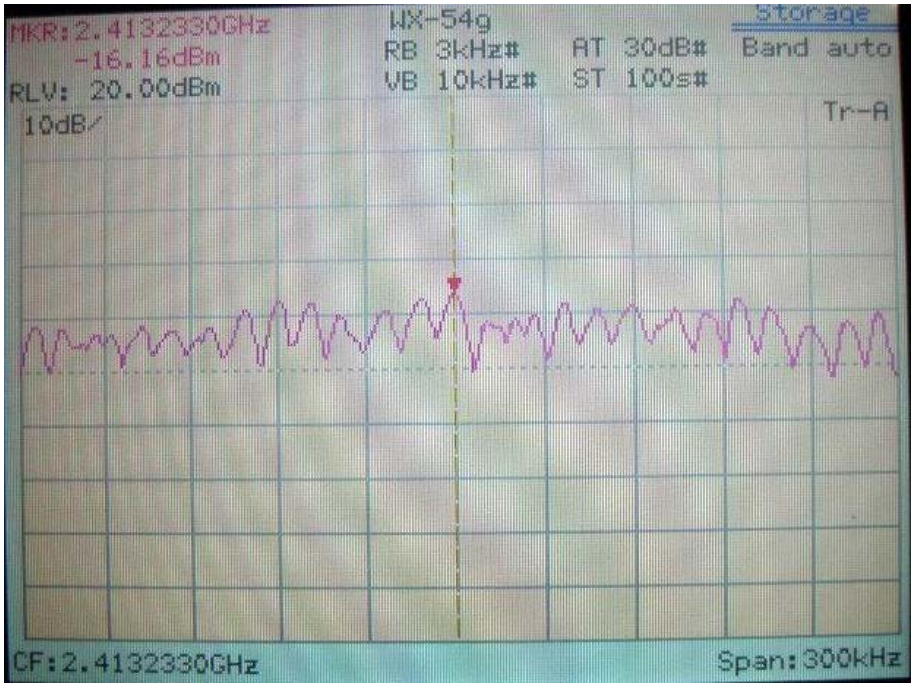
3. Ppq = Ppr + |Cable Loss|

Power Spectral Density for Channel 01

IEEE 802.11b

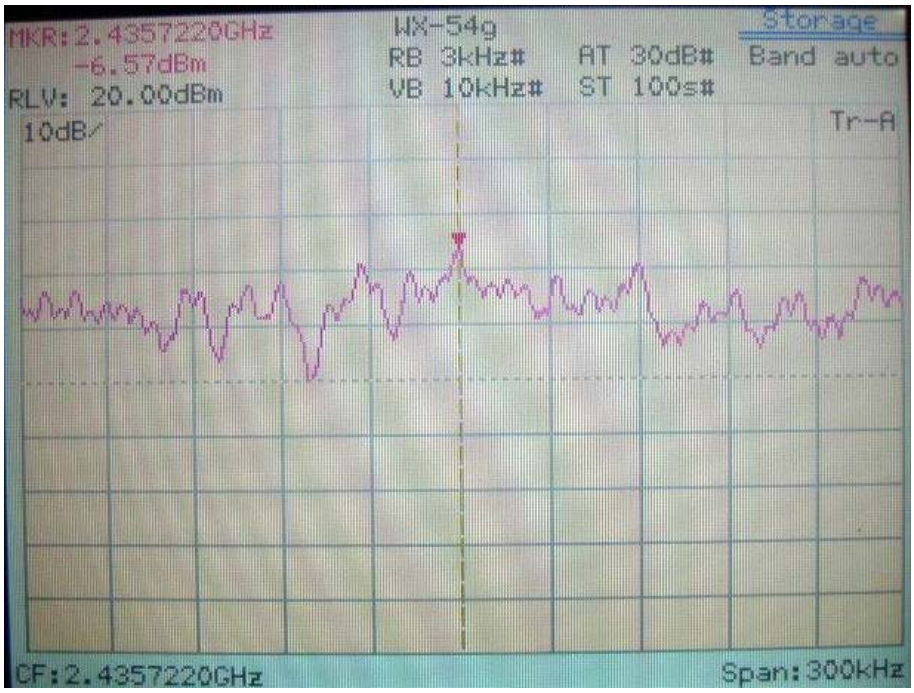


IEEE 802.11g

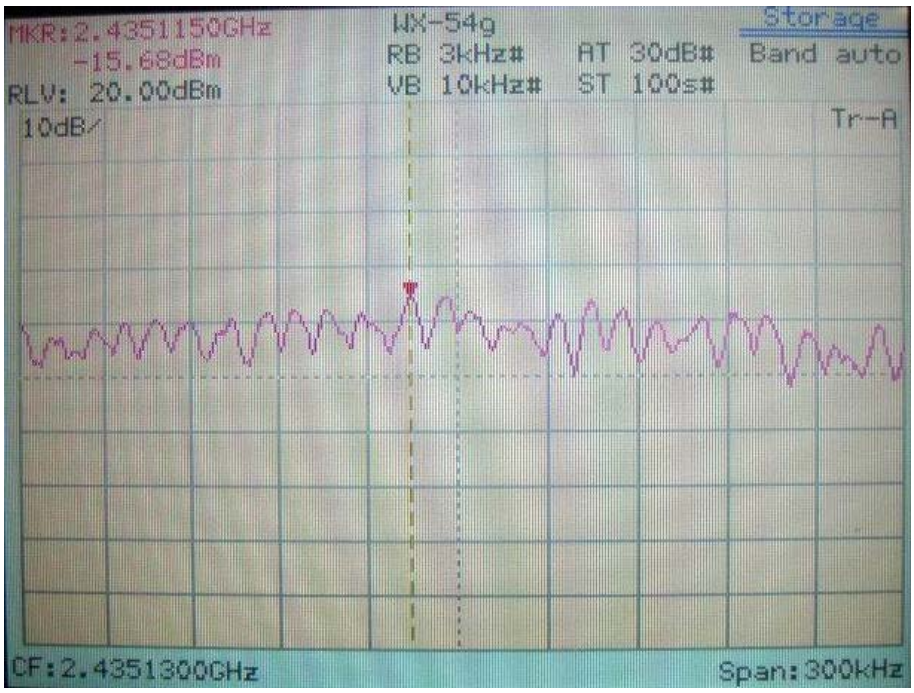


Power Spectral Density for Channel 06

IEEE 802.11b

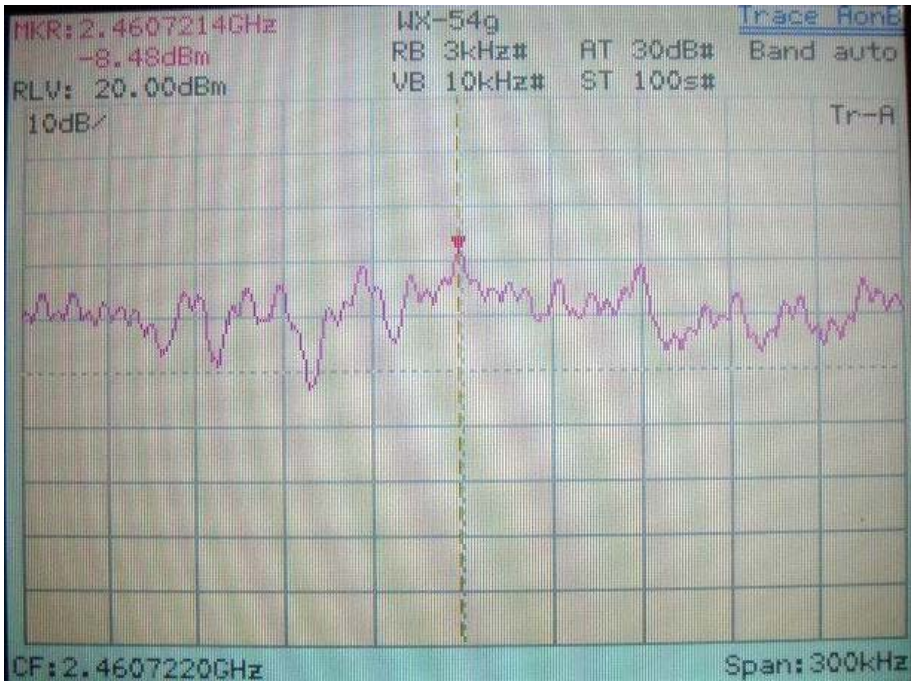


IEEE 802.11g



Power Spectral Density for Channel 11

IEEE 802.11b



IEEE 802.11g