

FCC Part 15 EMI TEST REPORT of

E.U.T. : KymaStar

Model : KS24

FCC ID : UU6-KS2400

for

APPLICANT : WNI Global, Inc.

ADDRESS : 3146 Bering Drive, San Jose, CA 95131

Test Performed by

ELECTRONICS TESTING CENTER, TAIWAN

NO.34, LIN 5, DINGFU TSUEN, LINKOU SHIANG

TAIPEI COUNTY, TAIWAN, 24442, R.O.C.

Tel : (02)26023052 Fax : (02)26010910

<http://www.etc.org.tw> ; e-mail: r00@etc.org.tw

Report Number : 07-07-RBF-104

TEST REPORT CERTIFICATION

Applicant : WNI Global, Inc.
3146 Bering Drive, San Jose, CA 95131

Description of EUT

a) Type of EUT : KymaStar
b) Trade Name : KymaStar
c) Model No. : KS24
d) Power Supply : I/P: 100-240V 1.0A 50-60Hz; O/P: 24V 1.25A 30W MAX

Regulation Applied : FCC Rules and Regulations Part 15 Subpart C (2006)


I HEREBY CERTIFY THAT: The data shown in this report were made in accordance with the procedures given in ANSI C63.4, and the energy emitted by the device was founded to be within the limits applicable. I assume full responsibility for accuracy and completeness of these data.

Note: 1. The result of the testing report relate only to the item tested.
2. The testing report shall not be reproduced expect in full, without the written approval of ETC.

Date Test Item Received : Jul. 24, 2007

Date Test Campaign Completed : May. 04, 2007

Date of Issue : Jul. 25, 2007

Test Engineer : 
(falcon Shi)

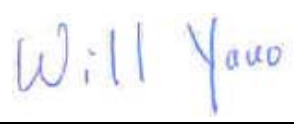
Approve & Authorized Signer : 
Will Yauo, Manager
EMC Dept. II of ELECTRONICS
TESTING CENTER, TAIWAN

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1 GENERAL INFORMATION

1.1 Product Description

- a) Type of EUT : KymaStar
- b) Trade Name : KymaStar
- c) Model No. : KS24
- d) Power Supply : I/P: 100-240V 1.0A 50-60Hz; O/P: 24V 1.25A 30W MAX

1.2 Characteristics of Device

Using advanced OFDM and power amp technology, KS24 has high output power and amazing throughput even at long distance transmission. Operating in 2.4GHz band, using IEEE 802.11g standard, KS24 can provide up to 54Mbps data rates communications.

1.3 Test Methodology

Both conducted and radiated emissions were performed according to the procedures illustrated in ANSI C63.4 (2003). There are four antennas reported and have been tested.

1.4 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the roof top of Building at NO.34, LIN 5, DINGFU TSUEN, LINKOU SHIANG TAIPEI COUNTY, TAIWAN, 24442, R.O.C.

This site has been fully described in a report submitted to your office, and accepted in a letter dated Oct. 20, 2005.

2 PROVISIONS APPLICABLE

2.1 Definition

Unintentional radiator:

A device that intentionally generates and radio frequency energy for use within the device, or that sends radio frequency signals by conduction to associated equipment via connecting wiring, but which is not intended to emit RF energy by radiation or induction.

Class A Digital Device:

A digital device which is marketed for use in commercial or business environment; exclusive of a device which is market for use by the general public, or which is intended to be used in the home.

Class B Digital Device :

A digital device which is marketed for use in a residential environment notwithstanding use in a commercial, business of industrial environment. Example of such devices that are marketed for the general public.

Note : A manufacturer may also qualify a device intended to be marketed in a commercial, business, or industrial environment as a Class B digital device, and in fact is encouraged to do so, provided the device complies with the technical specifications for a Class B Digital Device. In the event that a particular type of device has been found to repeatedly cause harmful interference to radio communications, the Commission may classify such a digital device as a Class B Digital Device, Regardless of its intended use.

Intentional radiator:

A device that intentionally generates and emits radio frequency energy by radiation or induction.

2.2 Requirement for Compliance

(1) Conducted Emission Requirement

Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

Frequency MHz	Quasi Peak dB μ V	Average dB μ V
0.15 - 0.5	66-56*	56-46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

* Decreases with the logarithm of the frequency

(2) Radiated Emission Requirement

For unintentional device, according to §15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency MHz	Distance Meters	Radiated dB μ V/m	Radiated μ V/m
30 - 88	3	40.0	100
88 - 216	3	43.5	150
216 - 960	3	46.0	200
Above 960	3	54.0	500

For intentional device, according to §15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

(3) Antenna Requirement

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

(4) Bandwidth Requirement

For direct sequence system, according to 15.247(a)(2), the minimum 6dB bandwidth shall be at least 500 kHz.

(5) Output Power Requirement

For direct sequence system, according to 15.247(b), the maximum peak output power of the transmitter shall not exceed 1 Watt. If transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(6) 100 kHz Bandwidth of Frequency Band Edges Requirement

According to 15.247(c), 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 in §15.209(a), whichever results in the lesser attenuation.

(7) Power Density Requirement

According to 15.247(d), for direct sequence systems, the transmitted power density averaged over any 1 second interval shall not be greater than 8 dBm in any 3 kHz bandwidth within these bands.

2.3 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below :

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42-16.423	399.9-410	4.5-5.15
0.495 - 0.505 **	16.69475 - 16.69525	608-614	5.35-5.46
2.1735 - 2.1905	16.80425 - 16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475 - 156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2655-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3360-4400	Above 38.6
13.36-13.41			

** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

2.4 Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device :

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.

2.5 User Information

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual.

The Federal Communications Commission Radio Frequency Interference Statement includes the following paragraph.

This equipment has been tested and found to comply with the limits for a Class B Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

3. SYSTEM TEST CONFIGURATION

3.1 Justification

For both radiated and conducted emissions below 1 GHz, the system was configured for testing in a typical fashion as a customer would normally use it. The peripherals other than EUT were connected in normally standing by situation. Measurement was performed under the condition that a computer program was exercised to simulate data communication of EUT, and the transmission rate was set to maximum allowed by EUT. Three highest emissions were verified with varying placement of the transmitting antenna connected to EUT to maximize the emission from EUT.

For conducted emissions, only measured on TX and RX operation, for the digital circuits portion also function normally whenever TX or RX is operated. For radiated emissions, whichever RF channel is operated, the digital circuits function identically. As the reason, measurement of radiated emissions from digital circuits is only performed with channel 7 by transmitting mode.

During the preliminary test, the worse case is the antenna with a cable, and data presented in this test report just shows the worse case.

3.2 Devices for Tested System

Device	Manufacture	Model / FCC ID.	Cable Description
KymaStar	WNI Global, Inc.	KS24/ UU6-KS2400	---

Remark “*” means equipment under test.

4 RADIATED EMISSION MEASUREMENT

4.1 Applicable Standard

For unintentional radiator, the radiated emission shall comply with §15.109(a).

For intentional radiators, according to §15.247 (a), operation under this provision is limited to frequency hopping and direct sequence spread spectrum, and the out band emission shall be comply with §15.247 (c)

4.2 Measurement Procedure

1. Setup the configuration per figure 1 and 2 for frequencies measured below and above 1 GHz respectively.
2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on a open test site. As the same purpose, for emission frequencies measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.
3. For emission frequencies measured below and above 1 GHz, set the spectrum analyzer on a 100 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.
4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0 ° to 360 ° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading. A RF test receiver is also used to confirm emissions measured.
5. Repeat step 4 until all frequencies need to be measured were complete.
6. Repeat step 5 with search antenna in vertical polarized orientations.
7. Check the three frequencies of highest emission with varying the placement of cables associated with EUT to obtain the worse case and record the result.

Figure 1 : Frequencies measured below 1 GHz configuration

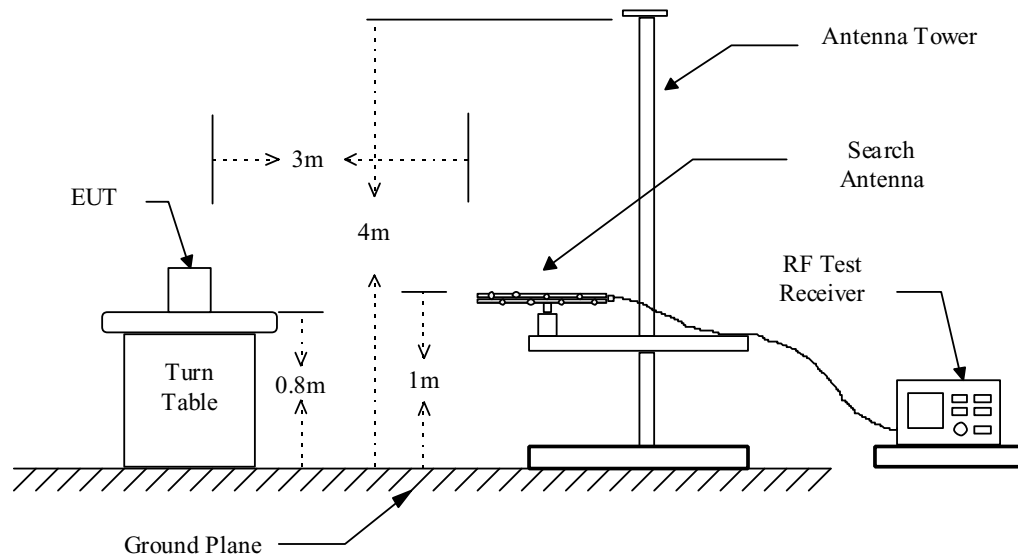
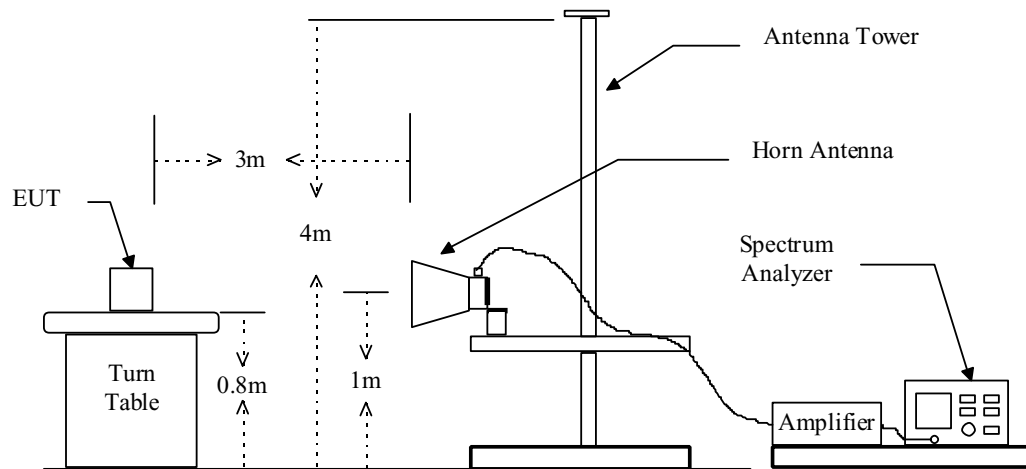


Figure 2 : Frequencies measured above 1 GHz configuration



4.3 Measuring Instrument

The following instrument are used for radiated emissions measurement:

Equipment	Manufacturer	Model No.	Next Cal. Date
Bi-Log Antenna	Schaffner	CBL 6111C	2007/12/21
Log-periodic Antenna	EMCO	3146	2007/08/13
Biconical Antenna	EMCO	3110	2008/06/21
EMI Test Receiver	Rohde & Schwarz	ESCI	2007/11/27
Double Ridged Antenna	EMCO	3115	2007/08/06
Double Ridged Antenna	EMCO	3115	2008/04/25
Amplifier	HP	8449B	2007/10/08
Amplifier	HP	83051A	2008/05/26
Spectrum	R&S	FSP40	2007/08/07
Signal generator	HP	HP 83732B	2008/06/22

Measuring instrument setup in measured frequency band when specified detector function is used :

Frequency Band (MHz)	Instrument	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	RF Test Receiver	Quasi-Peak	120 kHz	N/A
	Spectrum Analyzer	Peak	100 kHz	100 kHz
Above 1000	Spectrum Analyzer	Peak	1 MHz	1 MHz
	Spectrum Analyzer	Average	1 MHz	10 Hz

4.4 Radiated Emission Data

4.4.1 RF Portion

Mode: OB-003

A 802.11b

a) CH Low

Operation Mode : Receiving / Transmitting

Fundamental Frequency : 2412.000 MHz (Local Frequency : 2412.000 MHz)

Test Date : Apr. 19, 2007 Temperature : 23 °C Humidity : 51 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
* 2412.000	---	---	---	---	-3.0	---	---	74.0	54.0	---	---	---
* 4824.000	---	---	---	---	2.6	---	---	74.0	54.0	---	---	---
* 7236.000	---	---	---	---	5.8	---	---	74.0	54.0	---	---	---
* 9648.000	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
* 12060.000	---	---	---	---	9.2	---	---	74.0	54.0	---	---	---
4824.067	45.2	***	44.6	***	2.6	47.8	***	74.0	54.0	-26.2	114	1.4
7236.101	---	---	---	---	5.8	---	---	74.0	54.0	---	---	---
9648.135	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
12060.169	---	---	---	---	9.2	---	---	74.0	54.0	---	---	---
14472.203	---	---	---	---	11.6	---	---	74.0	54.0	---	---	---
16884.237	---	---	---	---	12.1	---	---	74.0	54.0	---	---	---
19296.271	---	---	---	---	8.8	---	---	74.0	54.0	---	---	---
21708.305	---	---	---	---	9.8	---	---	74.0	54.0	---	---	---
24120.339	---	---	---	---	10.4	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark "***" means that Peak result is meet average limit.
3. Remark "---" means that the emissions level is too low to be measured.
4. Item "Margin" referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.
6. Remark "*" means the receiving local frequency and the harmonics.

b) CH Middle

Operation Mode : Receiving / TransmittingFundamental Frequency : 2437.000 MHz (Local Frequency : 2437.000 MHz)Test Date : Apr. 19, 2007 Temperature : 23 °C Humidity : 51 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
* 2437.000	---	---	---	---	-2.9	---	---	74.0	54.0	---	---	---
* 4874.000	---	---	---	---	2.7	---	---	74.0	54.0	---	---	---
* 7311.000	---	---	---	---	5.9	---	---	74.0	54.0	---	---	---
* 9748.000	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
* 12185.000	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
4873.964	44.8	***	43.9	***	2.7	47.5	***	74.0	54.0	-26.5	96	1.3
7310.946	---	---	---	---	5.9	---	---	74.0	54.0	---	---	---
9747.928	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
12184.910	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
14621.892	---	---	---	---	11.6	---	---	74.0	54.0	---	---	---
17058.874	---	---	---	---	13.1	---	---	74.0	54.0	---	---	---
19495.856	---	---	---	---	8.5	---	---	74.0	54.0	---	---	---
21932.838	---	---	---	---	9.9	---	---	74.0	54.0	---	---	---
24369.820	---	---	---	---	10.7	---	---	74.0	54.0	---	---	---

Note :

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3. Remark “---” means that the emissions level is too low to be measured.
4. Item “Margin” referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.
6. Remark “*” means the receiving local frequency and the harmonics.

c) CH High

Operation Mode : Receiving / TransmittingFundamental Frequency : 2462.000 MHz (Local Frequency : 2462.000 MHz)Test Date : Apr. 19, 2007 Temperature : 27 °C Humidity : 51 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
* 2462.000	---	---	---	---	-2.8	---	---	74.0	54.0	---	---	---
* 4924.000	---	---	---	---	2.8	---	---	74.0	54.0	---	---	---
* 7386.000	---	---	---	---	6.0	---	---	74.0	54.0	---	---	---
* 9848.000	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
* 12310.000	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
4924.039	45.6	***	44.7	***	2.8	48.4	***	74.0	54.0	-25.6	102	1.4
7386.059	---	---	---	---	6.0	---	---	74.0	54.0	---	---	---
9747.928	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
12109.797	---	---	---	---	9.2	---	---	74.0	54.0	---	---	---
14471.666	---	---	---	---	11.6	---	---	74.0	54.0	---	---	---
16833.535	---	---	---	---	11.9	---	---	74.0	54.0	---	---	---
19195.404	---	---	---	---	8.9	---	---	74.0	54.0	---	---	---
21557.273	---	---	---	---	9.7	---	---	74.0	54.0	---	---	---
23919.142	---	---	---	---	10.3	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark “***” means that Peak result is meet average limit.
3. Remark “---” means that the emissions level is too low to be measured.
4. Item “Margin” referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.
6. Remark “*” means the receiving local frequency and the harmonics.

B 802.11g

a) CH Low

Operation Mode : Receiving / TransmittingFundamental Frequency : 2412.000 MHz (Local Frequency : 2412.000 MHz)Test Date : Apr. 19, 2007 Temperature : 27 °C Humidity : 51 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
* 2412.000	---	---	---	---	-3.0	---	---	74.0	54.0	---	---	---
* 4824.000	---	---	---	---	2.6	---	---	74.0	54.0	---	---	---
* 7236.000	---	---	---	---	5.8	---	---	74.0	54.0	---	---	---
* 9648.000	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
* 12060.000	---	---	---	---	9.2	---	---	74.0	54.0	---	---	---
4823.887	43.6	***	43.1	***	2.6	46.2	***	74.0	54.0	-27.8	86	1.5
7235.831	---	---	---	---	5.8	---	---	74.0	54.0	---	---	---
9647.775	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
12059.719	---	---	---	---	9.2	---	---	74.0	54.0	---	---	---
14471.663	---	---	---	---	11.6	---	---	74.0	54.0	---	---	---
16883.607	---	---	---	---	12.1	---	---	74.0	54.0	---	---	---
19295.551	---	---	---	---	8.8	---	---	74.0	54.0	---	---	---
21707.495	---	---	---	---	9.8	---	---	74.0	54.0	---	---	---
24119.439	---	---	---	---	10.4	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark “***” means that Peak result is meet average limit.
3. Remark “---” means that the emissions level is too low to be measured.
4. Item “Margin” referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.
6. Remark “*” means the receiving local frequency and the harmonics.

b) CH Middle

Operation Mode : Receiving / TransmittingFundamental Frequency : 2437.000 MHz (Local Frequency : 2437.000 MHz)Test Date : Apr. 19, 2007 Temperature : 27 °C Humidity : 51 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
* 2437.000	---	---	---	---	-2.9	---	---	74.0	54.0	---	---	---
* 4874.000	---	---	---	---	2.7	---	---	74.0	54.0	---	---	---
* 7311.000	---	---	---	---	5.9	---	---	74.0	54.0	---	---	---
* 9748.000	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
* 12185.000	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
4873.887	44.2	***	43.8	***	2.7	46.9	***	74.0	54.0	-27.1	67	1.5
7310.831	---	---	---	---	5.9	---	---	74.0	54.0	---	---	---
9747.774	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
12184.718	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
14621.661	---	---	---	---	11.6	---	---	74.0	54.0	---	---	---
17058.605	---	---	---	---	13.1	---	---	74.0	54.0	---	---	---
19495.548	---	---	---	---	8.5	---	---	74.0	54.0	---	---	---
21932.492	---	---	---	---	9.9	---	---	74.0	54.0	---	---	---
24369.435	---	---	---	---	10.7	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark “***” means that Peak result is meet average limit.
3. Remark “---” means that the emissions level is too low to be measured.
4. Item “Margin” referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.
6. Remark “*” means the receiving local frequency and the harmonics.

c) CH High

Operation Mode : Receiving / TransmittingFundamental Frequency : 2462.000 MHz (Local Frequency : 2462.000 MHz)Test Date : Apr. 19, 2007 Temperature : 27 °C Humidity : 51 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
* 2462.000	---	---	---	---	-2.8	---	---	74.0	54.0	---	---	---
* 4924.000	---	---	---	---	2.8	---	---	74.0	54.0	---	---	---
* 7386.000	---	---	---	---	6.0	---	---	74.0	54.0	---	---	---
* 9848.000	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
* 12310.000	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
4923.917	43.7	***	42.8	***	2.8	46.5	***	74.0	54.0	-27.5	72	1.4
7385.876	---	---	---	---	6.0	---	---	74.0	54.0	---	---	---
9847.835	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
12309.794	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
14771.753	---	---	---	---	11.5	---	---	74.0	54.0	---	---	---
17233.712	---	---	---	---	14.3	---	---	74.0	54.0	---	---	---
19695.671	---	---	---	---	8.5	---	---	74.0	54.0	---	---	---
22157.630	---	---	---	---	10.0	---	---	74.0	54.0	---	---	---
24619.589	---	---	---	---	10.9	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark “***” means that Peak result is meet average limit.
3. Remark “---” means that the emissions level is too low to be measured.
4. Item “Margin” referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.
6. Remark “*” means the receiving local frequency and the harmonics.

Mode: GRD-001**A 802.11b****a) CH Low**Operation Mode : Receiving / TransmittingFundamental Frequency : 2412.000 MHz (Local Frequency : 2412.000 MHz)Test Date : Apr. 19, 2007 Temperature : 23 °C Humidity : 51 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	Peak	Ave	Peak	Ave		Peak	Ave	Peak	Ave			
* 2412.000	---	---	---	---	-3.0	---	---	74.0	54.0	---	---	---
* 4824.000	---	---	---	---	2.6	---	---	74.0	54.0	---	---	---
* 7236.000	---	---	---	---	5.8	---	---	74.0	54.0	---	---	---
* 9648.000	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
* 12060.000	---	---	---	---	9.2	---	---	74.0	54.0	---	---	---
4824.058	48.8	***	50.5	***	-0.9	49.6	***	74.0	54.0	-24.4	62	1.3
7236.087	---	---	---	---	5.8	---	---	74.0	54.0	---	---	---
9648.116	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
12060.145	---	---	---	---	9.2	---	---	74.0	54.0	---	---	---
14472.174	---	---	---	---	11.6	---	---	74.0	54.0	---	---	---
16884.203	---	---	---	---	12.1	---	---	74.0	54.0	---	---	---
19296.232	---	---	---	---	8.8	---	---	74.0	54.0	---	---	---
21708.261	---	---	---	---	9.8	---	---	74.0	54.0	---	---	---
24120.290	---	---	---	---	10.4	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark "***" means that Peak result is meet average limit.
3. Remark "---" means that the emissions level is too low to be measured.
4. Item "Margin" referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.
6. Remark "*" means the receiving local frequency and the harmonics.

b) CH Middle

Operation Mode : Receiving / TransmittingFundamental Frequency : 2437.000 MHz (Local Frequency : 2437.000 MHz)Test Date : Apr. 19, 2007 Temperature : 23 °C Humidity : 51 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
* 2437.000	---	---	---	---	-2.9	---	---	74.0	54.0	---	---	---
* 4874.000	---	---	---	---	2.7	---	---	74.0	54.0	---	---	---
* 7311.000	---	---	---	---	5.9	---	---	74.0	54.0	---	---	---
* 9748.000	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
* 12185.000	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
4873.875	50.0	***	52.0	***	-0.8	51.2	***	74.0	54.0	-22.8	77	1.8
7310.813	---	---	---	---	5.9	---	---	74.0	54.0	---	---	---
9747.751	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
12184.689	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
14621.627	---	---	---	---	11.6	---	---	74.0	54.0	---	---	---
17058.565	---	---	---	---	13.1	---	---	74.0	54.0	---	---	---
19495.503	---	---	---	---	8.5	---	---	74.0	54.0	---	---	---
21932.441	---	---	---	---	9.9	---	---	74.0	54.0	---	---	---
24369.379	---	---	---	---	10.7	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark “***” means that Peak result is meet average limit.
3. Remark “---” means that the emissions level is too low to be measured.
4. Item “Margin” referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.
6. Remark “*” means the receiving local frequency and the harmonics.

c) CH High

Operation Mode : Receiving / TransmittingFundamental Frequency : 2462.000 MHz (Local Frequency : 2462.000 MHz)Test Date : Apr. 19, 2007 Temperature : 27 °C Humidity : 51 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	Peak	Ave	Peak	Ave		Peak	Ave	Peak	Ave			
* 2462.000	---	---	---	---	-2.8	---	---	74.0	54.0	---	---	---
* 4924.000	---	---	---	---	2.8	---	---	74.0	54.0	---	---	---
* 7386.000	---	---	---	---	6.0	---	---	74.0	54.0	---	---	---
* 9848.000	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
* 12310.000	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
4924.058	47.3	***	48.8	***	-0.6	48.2	***	74.0	54.0	-25.8	82	1.6
7386.087	---	---	---	---	6.0	---	---	74.0	54.0	---	---	---
9848.116	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
12310.145	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
14772.174	---	---	---	---	11.5	---	---	74.0	54.0	---	---	---
17234.203	---	---	---	---	14.3	---	---	74.0	54.0	---	---	---
19696.232	---	---	---	---	8.5	---	---	74.0	54.0	---	---	---
22158.261	---	---	---	---	10.0	---	---	74.0	54.0	---	---	---
24620.290	---	---	---	---	10.9	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark "***" means that Peak result is meet average limit.
3. Remark "---" means that the emissions level is too low to be measured.
4. Item "Margin" referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.
6. Remark "*" means the receiving local frequency and the harmonics.

B 802.11g

a) CH Low

Operation Mode : Receiving / TransmittingFundamental Frequency : 2412.000 MHz (Local Frequency : 2412.000 MHz)Test Date : Apr. 19, 2007 Temperature : 27 °C Humidity : 51 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	Peak	Ave	Peak	Ave		Peak	Ave	Peak	Ave			
* 2412.000	---	---	---	---	-3.0	---	---	74.0	54.0	---	---	---
* 4824.000	---	---	---	---	2.6	---	---	74.0	54.0	---	---	---
* 7236.000	---	---	---	---	5.8	---	---	74.0	54.0	---	---	---
* 9648.000	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
* 12060.000	---	---	---	---	9.2	---	---	74.0	54.0	---	---	---
4824.208	46.6	***	47.0	***	-0.6	46.4	***	74.0	54.0	-27.6	102	1.4
7236.312	---	---	---	---	5.8	---	---	74.0	54.0	---	---	---
9648.416	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
12060.520	---	---	---	---	9.2	---	---	74.0	54.0	---	---	---
14472.624	---	---	---	---	11.6	---	---	74.0	54.0	---	---	---
16884.728	---	---	---	---	12.1	---	---	74.0	54.0	---	---	---
19296.832	---	---	---	---	8.8	---	---	74.0	54.0	---	---	---
21708.936	---	---	---	---	9.8	---	---	74.0	54.0	---	---	---
24121.040	---	---	---	---	10.4	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark “***” means that Peak result is meet average limit.
3. Remark “---” means that the emissions level is too low to be measured.
4. Item “Margin” referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.
6. Remark “*” means the receiving local frequency and the harmonics.

b) CH Middle

Operation Mode : Receiving / TransmittingFundamental Frequency : 2437.000 MHz (Local Frequency : 2437.000 MHz)Test Date : Apr. 19, 2007 Temperature : 27 °C Humidity : 51 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
* 2437.000	---	---	---	---	-2.9	---	---	74.0	54.0	---	---	---
* 4874.000	---	---	---	---	2.7	---	---	74.0	54.0	---	---	---
* 7311.000	---	---	---	---	5.9	---	---	74.0	54.0	---	---	---
* 9748.000	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
* 12185.000	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
4874.125	44.8	***	47.5	***	2.7	50.2	***	74.0	54.0	-23.8	96	1.3
7311.188	---	---	---	---	5.9	---	---	74.0	54.0	---	---	---
9648.416	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
12060.520	---	---	---	---	9.2	---	---	74.0	54.0	---	---	---
14472.624	---	---	---	---	11.6	---	---	74.0	54.0	---	---	---
16884.728	---	---	---	---	12.1	---	---	74.0	54.0	---	---	---
19296.832	---	---	---	---	8.8	---	---	74.0	54.0	---	---	---
21708.936	---	---	---	---	9.8	---	---	74.0	54.0	---	---	---
24121.040	---	---	---	---	10.4	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark “***” means that Peak result is meet average limit.
3. Remark “---” means that the emissions level is too low to be measured.
4. Item “Margin” referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.
6. Remark “*” means the receiving local frequency and the harmonics.

c) CH High

Operation Mode : Receiving / TransmittingFundamental Frequency : 2462.000 MHz (Local Frequency : 2462.000 MHz)Test Date : Apr. 19, 2007 Temperature : 27 °C Humidity : 51 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
* 2462.000	---	---	---	---	-2.8	---	---	74.0	54.0	---	---	---
* 4924.000	---	---	---	---	2.8	---	---	74.0	54.0	---	---	---
* 7386.000	---	---	---	---	6.0	---	---	74.0	54.0	---	---	---
* 9848.000	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
* 12310.000	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
4924.750	44.5	***	45.8	***	2.8	48.6	***	74.0	54.0	-25.4	88	1.5
7387.125	---	---	---	---	6.0	---	---	74.0	54.0	---	---	---
9849.500	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
12311.875	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
14774.250	---	---	---	---	11.5	---	---	74.0	54.0	---	---	---
17236.625	---	---	---	---	14.4	---	---	74.0	54.0	---	---	---
19699.000	---	---	---	---	8.5	---	---	74.0	54.0	---	---	---
22161.375	---	---	---	---	10.0	---	---	74.0	54.0	---	---	---
24623.750	---	---	---	---	10.9	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark “***” means that Peak result is meet average limit.
3. Remark “---” means that the emissions level is too low to be measured.
4. Item “Margin” referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.
6. Remark “*” means the receiving local frequency and the harmonics.

Mode: SA-101**A 802.11b****a) CH Low**Operation Mode : Receiving / TransmittingFundamental Frequency : 2412.000 MHz (Local Frequency : 2412.000 MHz)Test Date : Apr. 20, 2007 Temperature : 23 °C Humidity : 51 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	Peak	Ave	Peak	Ave		Peak	Ave	Peak	Ave			
* 2412.000	---	---	---	---	-3.0	---	---	74.0	54.0	---	---	---
* 4824.000	---	---	---	---	2.6	---	---	74.0	54.0	---	---	---
* 7236.000	---	---	---	---	5.8	---	---	74.0	54.0	---	---	---
* 9648.000	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
* 12060.000	---	---	---	---	9.2	---	---	74.0	54.0	---	---	---
4823.968	45.6	***	52.0	***	-0.9	51.1	***	74.0	54.0	-22.9	83	1.6
7235.952	---	---	---	---	5.8	---	---	74.0	54.0	---	---	---
9647.936	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
12059.920	---	---	---	---	9.2	---	---	74.0	54.0	---	---	---
14471.904	---	---	---	---	11.6	---	---	74.0	54.0	---	---	---
16883.888	---	---	---	---	12.1	---	---	74.0	54.0	---	---	---
19295.872	---	---	---	---	8.8	---	---	74.0	54.0	---	---	---
21707.856	---	---	---	---	9.8	---	---	74.0	54.0	---	---	---
24119.840	---	---	---	---	10.4	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark "***" means that Peak result is meet average limit.
3. Remark "---" means that the emissions level is too low to be measured.
4. Item "Margin" referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.
6. Remark "*" means the receiving local frequency and the harmonics.

b) CH Middle

Operation Mode : Receiving / TransmittingFundamental Frequency : 2437.000 MHz (Local Frequency : 2437.000 MHz)Test Date : Apr. 20, 2007 Temperature : 23 °C Humidity : 51 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
* 2437.000	---	---	---	---	-2.9	---	---	74.0	54.0	---	---	---
* 4874.000	---	---	---	---	2.7	---	---	74.0	54.0	---	---	---
* 7311.000	---	---	---	---	5.9	---	---	74.0	54.0	---	---	---
* 9748.000	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
* 12185.000	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
4874.076	46.2	***	50.1	***	-0.9	49.2	***	74.0	54.0	-24.8	79	1.4
7311.114	---	---	---	---	5.9	---	---	74.0	54.0	---	---	---
9748.152	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
12185.190	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
14622.228	---	---	---	---	11.6	---	---	74.0	54.0	---	---	---
17059.266	---	---	---	---	13.1	---	---	74.0	54.0	---	---	---
19496.304	---	---	---	---	8.5	---	---	74.0	54.0	---	---	---
21933.342	---	---	---	---	9.9	---	---	74.0	54.0	---	---	---
24370.380	---	---	---	---	10.7	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark “***” means that Peak result is meet average limit.
3. Remark “---” means that the emissions level is too low to be measured.
4. Item “Margin” referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.
6. Remark “*” means the receiving local frequency and the harmonics.

c) CH High

Operation Mode : Receiving / TransmittingFundamental Frequency : 2462.000 MHz (Local Frequency : 2462.000 MHz)Test Date : Apr. 20, 2007 Temperature : 27 °C Humidity : 51 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	Peak	Ave	Peak	Ave		Peak	Ave	Peak	Ave			
* 2462.000	---	---	---	---	-2.8	---	---	74.0	54.0	---	---	---
* 4924.000	---	---	---	---	2.8	---	---	74.0	54.0	---	---	---
* 7386.000	---	---	---	---	6.0	---	---	74.0	54.0	---	---	---
* 9848.000	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
* 12310.000	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
4923.964	46.3	***	51.4	***	-0.9	50.5	***	74.0	54.0	-23.5	88	1.6
7385.946	---	---	---	---	6.0	---	---	74.0	54.0	---	---	---
9847.928	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
12309.910	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
14771.892	---	---	---	---	11.5	---	---	74.0	54.0	---	---	---
17233.874	---	---	---	---	14.3	---	---	74.0	54.0	---	---	---
19695.856	---	---	---	---	8.5	---	---	74.0	54.0	---	---	---
22157.838	---	---	---	---	10.0	---	---	74.0	54.0	---	---	---
24619.820	---	---	---	---	10.9	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark “***” means that Peak result is meet average limit.
3. Remark “---” means that the emissions level is too low to be measured.
4. Item “Margin” referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.
6. Remark “*” means the receiving local frequency and the harmonics.

B 802.11g

a) CH Low

Operation Mode : Receiving / TransmittingFundamental Frequency : 2412.000 MHz (Local Frequency : 2412.000 MHz)Test Date : Apr. 20, 2007 Temperature : 27 °C Humidity : 51 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	Peak	Ave	Peak	Ave		Peak	Ave	Peak	Ave			
* 2412.000	---	---	---	---	-3.0	---	---	74.0	54.0	---	---	---
* 4824.000	---	---	---	---	2.6	---	---	74.0	54.0	---	---	---
* 7236.000	---	---	---	---	5.8	---	---	74.0	54.0	---	---	---
* 9648.000	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
* 12060.000	---	---	---	---	9.2	---	---	74.0	54.0	---	---	---
4824.102	46.6	***	48.2	***	-0.9	47.3	***	74.0	54.0	-26.7	79	1.5
7236.153	---	---	---	---	5.8	---	---	74.0	54.0	---	---	---
9648.204	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
12060.255	---	---	---	---	9.2	---	---	74.0	54.0	---	---	---
14472.306	---	---	---	---	11.6	---	---	74.0	54.0	---	---	---
16884.357	---	---	---	---	12.1	---	---	74.0	54.0	---	---	---
19296.408	---	---	---	---	8.8	---	---	74.0	54.0	---	---	---
21708.459	---	---	---	---	9.8	---	---	74.0	54.0	---	---	---
24120.510	---	---	---	---	10.4	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark “***” means that Peak result is meet average limit.
3. Remark “---” means that the emissions level is too low to be measured.
4. Item “Margin” referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.
6. Remark “*” means the receiving local frequency and the harmonics.

b) CH Middle

Operation Mode : Receiving / TransmittingFundamental Frequency : 2437.000 MHz (Local Frequency : 2437.000 MHz)Test Date : Apr. 20, 2007 Temperature : 27 °C Humidity : 51 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	H Ave	V Peak	V Ave		Peak	Ave	Peak	Ave			
* 2437.000	---	---	---	---	-2.9	---	---	74.0	54.0	---	---	---
* 4874.000	---	---	---	---	2.7	---	---	74.0	54.0	---	---	---
* 7311.000	---	---	---	---	5.9	---	---	74.0	54.0	---	---	---
* 9748.000	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
* 12185.000	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
4873.892	45.8	***	46.9	***	2.7	49.6	***	74.0	54.0	-24.4	78	1.4
7310.838	---	---	---	---	5.9	---	---	74.0	54.0	---	---	---
9747.784	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
12184.730	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
14621.676	---	---	---	---	11.6	---	---	74.0	54.0	---	---	---
17058.622	---	---	---	---	13.1	---	---	74.0	54.0	---	---	---
19495.568	---	---	---	---	8.5	---	---	74.0	54.0	---	---	---
21932.514	---	---	---	---	9.9	---	---	74.0	54.0	---	---	---
24369.460	---	---	---	---	10.7	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark “***” means that Peak result is meet average limit.
3. Remark “---” means that the emissions level is too low to be measured.
4. Item “Margin” referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.
6. Remark “*” means the receiving local frequency and the harmonics.

c) CH High

Operation Mode : Receiving / TransmittingFundamental Frequency : 2462.000 MHz (Local Frequency : 2462.000 MHz)Test Date : Apr. 20, 2007 Temperature : 27 °C Humidity : 51 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
* 2462.000	---	---	---	---	-2.8	---	---	74.0	54.0	---	---	---
* 4924.000	---	---	---	---	2.8	---	---	74.0	54.0	---	---	---
* 7386.000	---	---	---	---	6.0	---	---	74.0	54.0	---	---	---
* 9848.000	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
* 12310.000	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
4923.896	46.1	***	46.8	***	2.8	49.6	***	74.0	54.0	-24.4	88	1.5
7385.844	---	---	---	---	6.0	---	---	74.0	54.0	---	---	---
9847.792	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
12309.740	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
14771.688	---	---	---	---	11.5	---	---	74.0	54.0	---	---	---
17233.636	---	---	---	---	14.3	---	---	74.0	54.0	---	---	---
19695.584	---	---	---	---	8.5	---	---	74.0	54.0	---	---	---
22157.532	---	---	---	---	10.0	---	---	74.0	54.0	---	---	---
24619.480	---	---	---	---	10.9	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark “***” means that Peak result is meet average limit.
3. Remark “---” means that the emissions level is too low to be measured.
4. Item “Margin” referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.
6. Remark “*” means the receiving local frequency and the harmonics.

Mode: PA-L01**A 802.11b**

a) CH Low

Operation Mode : Receiving / TransmittingFundamental Frequency : 2412.000 MHz (Local Frequency : 2412.000 MHz)Test Date : Apr. 20, 2007 Temperature : 23 °C Humidity : 51 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
* 2412.000	---	---	---	---	-3.0	---	---	74.0	54.0	---	---	---
* 4824.000	---	---	---	---	2.6	---	---	74.0	54.0	---	---	---
* 7236.000	---	---	---	---	5.8	---	---	74.0	54.0	---	---	---
* 9648.000	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
* 12060.000	---	---	---	---	9.2	---	---	74.0	54.0	---	---	---
4824.133	45.6	***	44.8	***	-0.9	44.7	***	74.0	54.0	-29.3	93	1.5
7236.200	---	---	---	---	5.8	---	---	74.0	54.0	---	---	---
9648.267	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
12060.334	---	---	---	---	9.2	---	---	74.0	54.0	---	---	---
14472.401	---	---	---	---	11.6	---	---	74.0	54.0	---	---	---
16884.468	---	---	---	---	12.1	---	---	74.0	54.0	---	---	---
19296.535	---	---	---	---	8.8	---	---	74.0	54.0	---	---	---
21708.602	---	---	---	---	9.8	---	---	74.0	54.0	---	---	---
24120.669	---	---	---	---	10.4	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark "***" means that Peak result is meet average limit.
3. Remark "---" means that the emissions level is too low to be measured.
4. Item "Margin" referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.
6. Remark "*" means the receiving local frequency and the harmonics.

b) CH Middle

Operation Mode : Receiving / TransmittingFundamental Frequency : 2437.000 MHz (Local Frequency : 2437.000 MHz)Test Date : Apr. 20, 2007 Temperature : 23 °C Humidity : 51 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	H Ave	V Peak	V Ave		Peak	Ave	Peak	Ave			
* 2437.000	---	---	---	---	-2.9	---	---	74.0	54.0	---	---	---
* 4874.000	---	---	---	---	2.7	---	---	74.0	54.0	---	---	---
* 7311.000	---	---	---	---	5.9	---	---	74.0	54.0	---	---	---
* 9748.000	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
* 12185.000	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
4874.082	45.2	***	44.7	***	-0.9	44.3	***	74.0	54.0	-29.7	88	1.6
7311.123	---	---	---	---	5.9	---	---	74.0	54.0	---	---	---
9748.164	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
12185.205	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
14622.246	---	---	---	---	11.6	---	---	74.0	54.0	---	---	---
17059.287	---	---	---	---	13.1	---	---	74.0	54.0	---	---	---
19496.328	---	---	---	---	8.5	---	---	74.0	54.0	---	---	---
21933.369	---	---	---	---	9.9	---	---	74.0	54.0	---	---	---
24370.410	---	---	---	---	10.7	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark “***” means that Peak result is meet average limit.
3. Remark “---” means that the emissions level is too low to be measured.
4. Item “Margin” referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.
6. Remark “*” means the receiving local frequency and the harmonics.

c) CH High

Operation Mode : Receiving / TransmittingFundamental Frequency : 2462.000 MHz (Local Frequency : 2462.000 MHz)Test Date : Apr. 20, 2007 Temperature : 23 °C Humidity : 51 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
* 2462.000	---	---	---	---	-2.8	---	---	74.0	54.0	---	---	---
* 4924.000	---	---	---	---	2.8	---	---	74.0	54.0	---	---	---
* 7386.000	---	---	---	---	6.0	---	---	74.0	54.0	---	---	---
* 9848.000	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
* 12310.000	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
4924.079	45.8	***	45.2	***	-0.9	44.9	***	74.0	54.0	-29.1	72	1.4
7386.119	---	---	---	---	6.0	---	---	74.0	54.0	---	---	---
9848.159	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
12310.199	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
14772.239	---	---	---	---	11.5	---	---	74.0	54.0	---	---	---
17234.279	---	---	---	---	14.3	---	---	74.0	54.0	---	---	---
19696.319	---	---	---	---	8.5	---	---	74.0	54.0	---	---	---
22158.359	---	---	---	---	10.0	---	---	74.0	54.0	---	---	---
24620.399	---	---	---	---	10.9	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark “***” means that Peak result is meet average limit.
3. Remark “---” means that the emissions level is too low to be measured.
4. Item “Margin” referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.
6. Remark “*” means the receiving local frequency and the harmonics.

B 802.11g

a) CH Low

Operation Mode : Receiving / TransmittingFundamental Frequency : 2412.000 MHz (Local Frequency : 2412.000 MHz)Test Date : Apr. 20, 2007 Temperature : 23 °C Humidity : 51 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
* 2412.000	---	---	---	---	-3.0	---	---	74.0	54.0	---	---	---
* 4824.000	---	---	---	---	2.6	---	---	74.0	54.0	---	---	---
* 7236.000	---	---	---	---	5.8	---	---	74.0	54.0	---	---	---
* 9648.000	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
* 12060.000	---	---	---	---	9.2	---	---	74.0	54.0	---	---	---
4823.950	44.1	***	44.2	***	-0.9	43.3	***	74.0	54.0	-30.7	66	1.5
7235.925	---	---	---	---	5.8	---	---	74.0	54.0	---	---	---
9647.900	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
12059.875	---	---	---	---	9.2	---	---	74.0	54.0	---	---	---
14471.850	---	---	---	---	11.6	---	---	74.0	54.0	---	---	---
16883.825	---	---	---	---	12.1	---	---	74.0	54.0	---	---	---
19295.800	---	---	---	---	8.8	---	---	74.0	54.0	---	---	---
21707.775	---	---	---	---	9.8	---	---	74.0	54.0	---	---	---
24119.750	---	---	---	---	10.4	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark “***” means that Peak result is meet average limit.
3. Remark “---” means that the emissions level is too low to be measured.
4. Item “Margin” referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.
6. Remark “*” means the receiving local frequency and the harmonics.

b) CH Middle

Operation Mode : Receiving / TransmittingFundamental Frequency : 2437.000 MHz (Local Frequency : 2437.000 MHz)Test Date : Apr. 20, 2007 Temperature : 23 °C Humidity : 51 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	H Ave	V Peak	V Ave		Peak	Ave	Peak	Ave			
* 2437.000	---	---	---	---	-2.9	---	---	74.0	54.0	---	---	---
* 4874.000	---	---	---	---	2.7	---	---	74.0	54.0	---	---	---
* 7311.000	---	---	---	---	5.9	---	---	74.0	54.0	---	---	---
* 9748.000	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
* 12185.000	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
4873.920	45.2	***	44.9	***	2.7	47.9	***	74.0	54.0	-26.1	89	1.4
7310.880	---	---	---	---	5.9	---	---	74.0	54.0	---	---	---
9747.840	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
12184.800	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
14621.760	---	---	---	---	11.6	---	---	74.0	54.0	---	---	---
17058.720	---	---	---	---	13.1	---	---	74.0	54.0	---	---	---
19495.680	---	---	---	---	8.5	---	---	74.0	54.0	---	---	---
21932.640	---	---	---	---	9.9	---	---	74.0	54.0	---	---	---
24369.600	---	---	---	---	10.7	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark “***” means that Peak result is meet average limit.
3. Remark “---” means that the emissions level is too low to be measured.
4. Item “Margin” referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.
6. Remark “*” means the receiving local frequency and the harmonics.

c) CH High

Operation Mode : Receiving / TransmittingFundamental Frequency : 2462.000 MHz (Local Frequency : 2462.000 MHz)Test Date : Apr. 20, 2007 Temperature : 23 °C Humidity : 51 %

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
* 2462.000	---	---	---	---	-2.8	---	---	74.0	54.0	---	---	---
* 4924.000	---	---	---	---	2.8	---	---	74.0	54.0	---	---	---
* 7386.000	---	---	---	---	6.0	---	---	74.0	54.0	---	---	---
* 9848.000	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
* 12310.000	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
4924.098	44.0	***	43.6	***	2.8	46.8	***	74.0	54.0	-27.2	67	1.4
7385.147	---	---	---	---	6.0	---	---	74.0	54.0	---	---	---
9846.196	---	---	---	---	7.3	---	---	74.0	54.0	---	---	---
12307.245	---	---	---	---	9.3	---	---	74.0	54.0	---	---	---
14768.294	---	---	---	---	11.5	---	---	74.0	54.0	---	---	---
17229.343	---	---	---	---	14.3	---	---	74.0	54.0	---	---	---
19690.392	---	---	---	---	8.5	---	---	74.0	54.0	---	---	---
22151.441	---	---	---	---	10.0	---	---	74.0	54.0	---	---	---
24612.490	---	---	---	---	10.9	---	---	74.0	54.0	---	---	---

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark “***” means that Peak result is meet average limit.
3. Remark “---” means that the emissions level is too low to be measured.
4. Item “Margin” referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.
6. Remark “*” means the receiving local frequency and the harmonics.

4.4.2 Radiated Emission of Restricted bands**Mode: OB-003****A. 802.11b**Test Date : Jun. 06, 2007 Temperature : 23 °C Humidity : 51 %**Operation Mode : CH Low Restricted Frequency band: 2310MHz – 2390MHz**

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
2367.540	46.7	***	45.4	***	-3.2	43.5	***	74.0	54.0	-30.5	67	1.3
2389.120	45.8	***	46.1	***	-3.1	43.0	***	74.0	54.0	-31.0	76	1.4

Operation Mode : CH High Restricted Frequency band: 2483.5MHz – 2500MHz

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
2486.560	47.3	***	45.4	***	-2.8	44.5	***	74.0	54.0	-29.5	83	1.4
2494.330	48.1	***	46.2	***	-2.7	45.4	***	74.0	54.0	-28.6	56	1.3

B. 802.11gTest Date : Jun. 06, 2007 Temperature : 23 °C Humidity : 51 %**Operation Mode : CH Low Restricted Frequency band: 2310MHz – 2390MHz**

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
2354.640	48.6	---	45.6	---	-3.3	45.3	---	74.0	54.0	-28.7	74	1.4
2388.720	47.3	---	46.2	---	-3.1	44.2	---	74.0	54.0	-29.8	88	1.4

Operation Mode : CH High Restricted Frequency band: 2483.5MHz – 2500MHz

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
2486.140	47.6	***	47.4	***	-2.8	44.8	***	74.0	54.0	-29.2	69	1.3
2492.720	46.8	***	47.3	***	-2.7	44.6	***	74.0	54.0	-29.4	54	1.3

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark “***” means that Peak result is meet average limit.
3. Remark “---” means that the emissions level is too low to be measured.
4. Item “Margin” referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.

Mode: GRD-001**A. 802.11b**

Test Date : Jun. 06, 2007 Temperature : 23 °C Humidity : 51 %

Operation Mode : CH Low Restricted Frequency band: 2310MHz – 2390MHz

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
2357.640	48.6	***	47.9	***	-3.2	45.4	***	74.0	54.0	-28.6	78	1.3
2388.560	47.8	***	47.1	***	-3.1	44.7	***	74.0	54.0	-29.3	92	1.3

Operation Mode : CH High Restricted Frequency band: 2483.5MHz – 2500MHz

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
2486.920	48.3	***	47.2	***	-2.7	45.6	***	74.0	54.0	28.4	62	1.4
2497.640	47.4	***	46.9	***	-2.7	44.7	***	74.0	54.0	-29.3	74	1.4

B. 802.11g

Test Date : Jun. 06, 2007 Temperature : 23 °C Humidity : 51 %

Operation Mode : CH Low Restricted Frequency band: 2310MHz – 2390MHz

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
2374.620	46.8	***	47.0	***	-3.2	43.8	***	74.0	54.0	-30.2	58	1.3
2387.160	47.2	***	46.9	***	-3.1	44.1	***	74.0	54.0	-29.9	92	1.4

Operation Mode : CH High Restricted Frequency band: 2483.5MHz – 2500MHz

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
2487.210	47.1	***	46.2	***	-2.7	44.4	***	74.0	54.0	-29.6	77	1.4
2493.440	47.4	***	46.5	***	-2.7	44.7	***	74.0	54.0	-29.3	69	1.4

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark "***" means that Peak result is meet average limit.
3. Remark "---" means that the emissions level is too low to be measured.
4. Item "Margin" referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.

Mode: SA-101**A. 802.11b**1 Test Date : Jun. 06, 2007 Temperature : 23 °C Humidity : 51 %**Operation Mode : CH Low****Restricted Frequency band: 2310MHz – 2390MHz**

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
2349.520	47.8	***	46.2	***	-3.3	44.5	***	74.0	54.0	-29.5	78	1.4
2384.320	47.4	***	45.9	***	-3.1	44.3	***	74.0	54.0	-29.7	92	1.3

Operation Mode : CH High**Restricted Frequency band: 2483.5MHz – 2500MHz**

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
2486.100	46.8	***	47.3	***	-2.8	44.5	***	74.0	54.0	-29.5	69	1.3
2493.270	46.2	***	45.9	***	-2.7	43.5	***	74.0	54.0	-30.5	84	1.4

B. 802.11gTest Date : Jun. 06, 2007 Temperature : 23 °C Humidity : 51 %**Operation Mode : CH Low****Restricted Frequency band: 2310MHz – 2390MHz**

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
2363.450	46.3	***	45.8	***	-3.2	43.1	***	74.0	54.0	-30.9	88	1.3
2388.570	47.1	***	45.9	***	-3.1	44.0	***	74.0	54.0	-30.0	54	1.3

Operation Mode : CH High**Restricted Frequency band: 2483.5MHz – 2500MHz**

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
2485.920	46.2	***	47.1	***	-2.8	44.3	***	74.0	54.0	-29.7	67	1.4
2489.440	47.3	***	46.2	***	-2.7	44.6	***	74.0	54.0	-29.4	96	1.4

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark “***” means that Peak result is meet average limit.
3. Remark “---” means that the emissions level is too low to be measured.
4. Item “Margin” referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.

Mode: PA-L01**A. 802.11b**Test Date : Jun. 06, 2007 Temperature : 23 °C Humidity : 51 %**Operation Mode : CH Low****Restricted Frequency band: 2310MHz – 2390MHz**

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
2367.820	47.8	***	47.2	***	-3.2	44.6	***	74.0	54.0	-29.4	78	1.4
2387.770	47.4	***	47.0	***	-3.1	44.3	***	74.0	54.0	-29.7	54	1.4

Operation Mode : CH High**Restricted Frequency band: 2483.5MHz – 2500MHz**

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
2483.940	48.1	***	47.2	***	-2.8	45.3	***	74.0	54.0	-28.7	66	1.3
2486.570	47.4	***	48.3	***	-2.8	45.5	***	74.0	54.0	-28.5	72	1.4

B. 802.11gTest Date : Jun. 06, 2007 Temperature : 23 °C Humidity : 51 %**Operation Mode : CH Low****Restricted Frequency band: 2310MHz – 2390MHz**

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
2374.320	46.9	***	45.8	***	-3.2	43.7	***	74.0	54.0	-30.3	77	1.3
2388.540	46.2	***	46.1	***	-3.1	43.1	***	74.0	54.0	-30.9	62	1.3

Operation Mode : CH High**Restricted Frequency band: 2483.5MHz – 2500MHz**

Frequency (MHz)	Reading (dBuV)				Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Deg. (Deg.)	Ant. High (m)
	H Peak	Ave	V Peak	Ave		Peak	Ave	Peak	Ave			
2484.310	47.1	***	46.2	***	-2.8	44.3	***	74.0	54.0	-29.7	89	1.4
2489.520	47.4	***	47.0	***	-2.7	44.7	***	74.0	54.0	-29.3	92	1.4

Note :

1. Item of margin shown in above table refer to average limit.
2. It is considered that the results of average comply with average limit when measuring data with a peak function detector meet the average limit. Mark “***” means that Peak result is meet average limit.
3. Remark “---” means that the emissions level is too low to be measured.
4. Item “Margin” referred to Average limit while there is only peak result.
5. The expanded uncertainty of the radiated emission tests is 3.53 dB.

4.4.3 Other Emission

a) Emission frequencies below 1 GHz

Mode: OB-003/ 802.11bOperation Mode : Receiving / TransmittingTest Date : Apr. 20, 2007 Temperature : 23 °C Humidity : 51 %

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
36.480	V	36.7	-11.1	25.6	40.0	-14.4	216	1.0
79.140	V	41.3	-15.1	26.2	40.0	-13.8	77	1.2
139.620	V	36.9	-10.8	26.1	43.5	-17.4	228	1.2
394.520	H	38.2	-6.3	31.9	46.0	-14.1	83	1.6
659.840	H	39.4	-2.2	37.2	46.0	-8.8	296	1.7
923.740	H	36.1	2.5	38.6	46.0	-7.4	214	1.8

Mode: OB-003/ 802.11gOperation Mode : Receiving / TransmittingTest Date : Apr. 20, 2007 Temperature : 23 °C Humidity : 53 %

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
78.230	V	41.1	-15.3	25.8	40.0	-14.2	93	1.0
139.540	V	36.9	-10.8	26.1	43.5	-17.4	102	1.2
494.420	V	37.5	-4.4	33.1	46.0	-12.9	156	1.5
659.830	V	38.0	-2.2	35.8	46.0	-10.2	59	1.4
886.620	V	33.9	2.3	36.2	46.0	-9.8	101	1.9
923.740	H	35.3	2.5	37.8	46.0	-8.2	78	1.2

Note :

1. Remark “---” means that the emissions level is too low to be measured.
2. The expanded uncertainty of the radiated emission tests is 3.53 dB.

Mode: GRD-001/ 802.11bOperation Mode : Receiving / TransmittingTest Date : Apr. 20, 2007 Temperature : 23 °C Humidity : 51 %

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
36.480	V	37.3	-11.1	26.2	40.0	-13.8	67	1.2
139.620	V	37.9	-10.8	27.1	43.5	-16.4	254	1.0
199.300	V	33.5	-7.2	26.3	43.5	-17.2	112	1.8
394.520	V	37.2	-6.3	30.9	46.0	-15.1	86	1.2
494.420	V	38.6	-4.4	34.2	46.0	-11.8	98	1.5
853.720	H	34.0	2.2	36.2	46.0	-9.8	57	1.6

Mode: GRD-001/ 802.11gOperation Mode : Receiving / TransmittingTest Date : Apr. 20, 2007 Temperature : 23 °C Humidity : 51 %

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
79.140	V	41.4	-15.1	26.3	40.0	-13.7	72	1.0
139.580	V	38.2	-10.8	27.4	43.5	-16.1	174	1.0
199.290	V	33.0	-7.2	25.8	43.5	-17.7	162	1.4
394.520	V	37.5	-6.3	31.2	46.0	-14.8	102	1.6
528.240	V	41.2	-5.0	36.2	46.0	-9.8	258	1.9
659.830	V	39.3	-2.2	37.1	46.0	-8.9	159	1.4

Note :

1. Remark “---” means that the emissions level is too low to be measured.
2. The expanded uncertainty of the radiated emission tests is 3.53 dB.

Mode: SA-101/ 802.11bOperation Mode : Receiving / TransmittingTest Date : Apr. 20, 2007 Temperature : 23 °C Humidity : 51 %

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
79.140	V	40.5	-15.1	25.4	40.0	-14.6	213	1.0
139.620	V	35.9	-10.8	25.1	43.5	-18.4	184	1.0
199.290	V	32.6	-7.2	25.4	43.5	-18.1	72	1.2
394.520	V	37.5	-6.3	31.2	46.0	-14.8	166	1.6
659.840	V	38.9	-2.2	36.7	46.0	-9.3	59	1.2
853.720	H	34.3	2.2	36.5	46.0	-9.5	114	2.1

Mode: SA-101/ 802.11gOperation Mode : Receiving / TransmittingTest Date : Apr. 20, 2007 Temperature : 23 °C Humidity : 51 %

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
100.740	V	34.3	-13.7	20.6	43.5	-22.9	182	1.0
129.930	H	37.8	-11.5	26.3	43.5	-17.2	149	1.9
394.520	H	38.1	-6.3	31.8	46.0	-14.2	172	2.1
528.240	V	40.4	-5.0	35.4	46.0	-10.6	163	1.8
659.840	V	39.0	-2.2	36.8	46.0	-9.2	54	1.4
853.720	H	33.7	2.2	35.9	46.0	-10.1	102	1.6

Note :

1. Remark “---” means that the emissions level is too low to be measured.
2. The expanded uncertainty of the radiated emission tests is 3.53 dB.

Mode: PA-L01/ 802.11bOperation Mode : Receiving / TransmittingTest Date : Apr. 20, 2007 Temperature : 23 °C Humidity : 51 %

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
394.520	H	37.9	-6.3	31.6	46.0	-14.4	214	2.1
424.610	V	34.6	-5.5	29.1	46.0	-16.9	28	1.8
494.600	V	37.5	-4.4	33.1	46.0	-12.9	62	2.1
528.240	V	40.4	-5.0	35.4	46.0	-10.6	136	1.6
659.840	V	38.9	-2.2	36.7	46.0	-9.3	138	1.8
811.700	V	33.8	1.1	34.9	46.0	-11.1	96	1.7

Mode: PA-L01/ 802.11gOperation Mode : Receiving / TransmittingTest Date : Apr. 20, 2007 Temperature : 23 °C Humidity : 51 %

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (m)
394.520	V	38.1	-6.3	31.8	46.0	-14.2	162	1.6
498.100	V	37.8	-4.4	33.4	46.0	-12.6	133	2.4
528.240	V	40.2	-5.0	35.2	46.0	-10.8	169	1.9
659.840	H	39.1	-2.2	36.9	46.0	-9.1	183	2.2
853.720	H	34.5	2.2	36.7	46.0	-9.3	257	1.8
923.700	H	36.5	2.5	39.0	46.0	-7.0	233	2.1

Note :

1. Remark “---” means that the emissions level is too low to be measured.
2. The expanded uncertainty of the radiated emission tests is 3.53 dB.

b) Emission frequencies above 1 GHz

Radiated emission frequencies above 1 GHz to 25 GHz were too low to be measured with a pre-amplifier of 35 dB.

4.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor, High Pass Filter Loss(if used) and Cable Loss, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

where

$$\text{Corrected Factor} = \text{Antenna FACTOR} + \text{Cable Loss} + \text{High Pass Filter Loss} - \text{Amplifier Gain}$$

4.6 Photos of Radiation Measuring Setup

Mode: OB-003



Mode: GRD-001



Mode: SA-101



Mode: PA-L01



5 CONDUCTED EMISSION MEASUREMENT

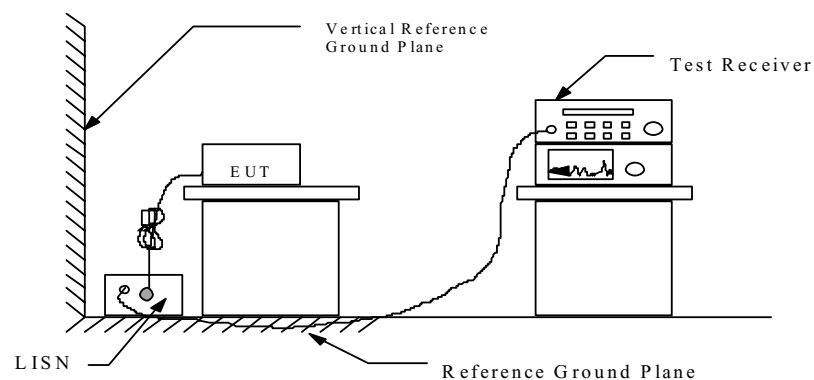
5.1 Standard Applicable

For unintentional and intentional device, Line Conducted Emission Limits are in accordance to § 15.107(a) and §15.207(a) respectively. Both Limits are identical specification.

5.2 Measurement Procedure

1. Setup the configuration per figure 3.
2. A preliminary scan with a spectrum monitor is performed to identify the frequency of emission that has the highest amplitude relative to the limit by operating the EUT in selected modes of operation, typical cable positions, and with a typical system configuration.
3. Record the 6 or 8 highest emissions relative to the limit.
4. Measure each frequency obtained from step 3 by a test receiver set on quasi peak detector function, and then record the accuracy frequency and emission level. If all emissions measured in the specified band are attenuated more than 20 dB from the limit, this step would be ignored, and the peak detector function would be used.
5. Confirm the highest three emissions with variation of the EUT cable configuration and record the final data.
6. Repeat all above procedures on measuring each operation mode of EUT.

Figure 3 : Conducted emissions measurement configuration



5.3 Conducted Emission Data**Mode: OB-003/802.11b**Operation Mode : Receiving / TransmittingTest Date : Apr. 22, 2007 Temperature : 27 °C Humidity : 51 %

Mode: Working Neutral

Frequency (MHz)	Meter Reading (dBμV)		Factor (dB)	Result (dBμV)		Limit (dBμV)		Margin (dBμV)	
	Q.P	AVG		Q.P	AVG	Q.P	AVG	Q.P	AVG
0.251	50.3	----	0.2	50.5	----	61.7	51.7	-11.2	----
0.876	47.4	41.2	0.3	47.7	41.5	56.0	46.0	-8.3	-4.5
1.230	47.6	41.4	0.3	47.9	41.7	56.0	46.0	-8.1	-4.3
10.636	43.8	----	0.8	44.6	----	60.0	50.0	-15.4	----
16.304	52.1	39.6	1.2	53.3	40.8	60.0	50.0	-6.7	-9.2
16.531	52.2	39.8	1.2	53.4	41.0	60.0	50.0	-6.6	-9.0

Mode: Working

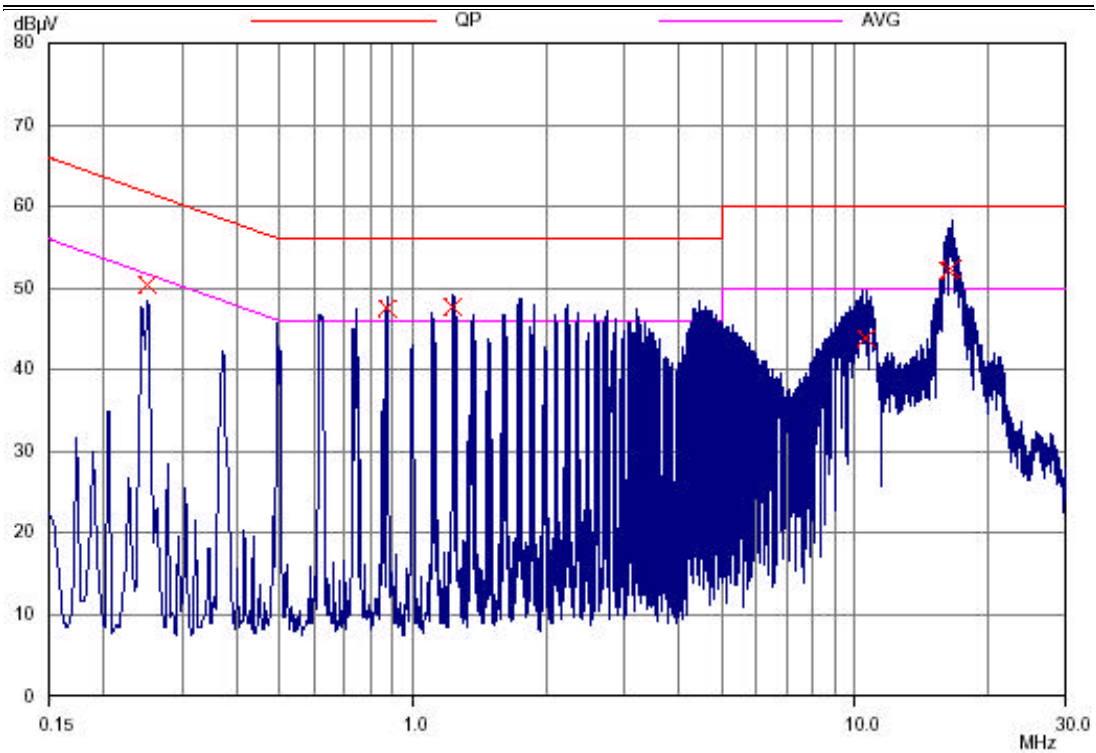
Line

Frequency (MHz)	Meter Reading (dBμV)		Factor (dB)	Result (dBμV)		Limit (dBμV)		Margin (dBμV)	
	Q.P	AVG		Q.P	AVG	Q.P	AVG	Q.P	AVG
0.247	50.3	----	0.2	50.5	----	61.9	51.9	-11.3	----
0.614	45.2	40.3	0.3	45.5	40.6	56.0	46.0	-10.5	-5.4
0.876	46.8	41.6	0.3	47.1	41.9	56.0	46.0	-8.9	-4.1
1.238	47.7	39.6	0.3	48.0	39.9	56.0	46.0	-8.0	-6.1
16.187	51.3	39.2	1.2	52.5	40.4	60.0	50.0	-7.5	-9.6
16.734	51.8	38.9	1.2	53.0	40.1	60.0	50.0	-7.0	-9.9

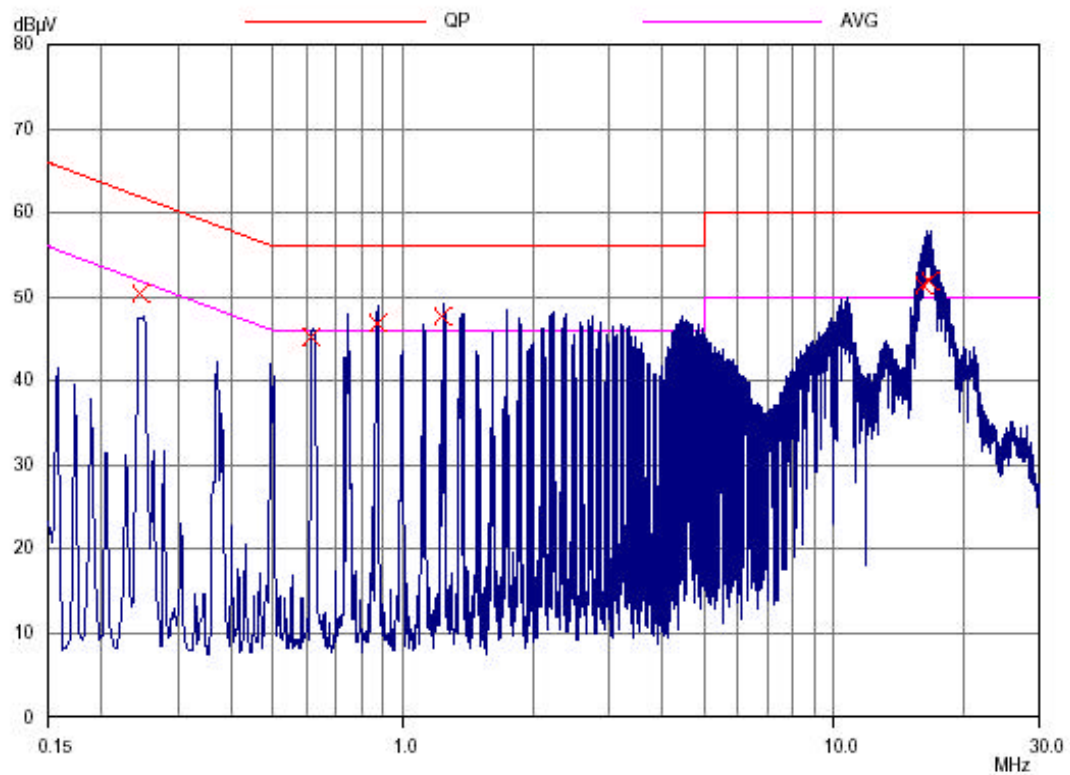
- Notes:
- 1) Place of measurement: EMC LAB. of the ETC
 - 2) The EUT was placed 0.8m above reference ground plane.
 - 3) The symbol of "----" means the Q.P. value is under the limit for AVG. so, the AVG. value doesn't need to be measured.
 - 4) The expanded uncertainty of the conducted emission tests is 2.45 dB.

Mode: Working

Neutral



Mode: Working



Mode: OB-003/802.11gOperation Mode : Receiving / TransmittingTest Date : Apr. 22, 2007 Temperature : 27 °C Humidity : 51 %

Mode: Working Neutral

Frequency (MHz)	Meter Reading (dBμV)		Factor (dB)	Result (dBμV)		Limit (dBμV)		Margin (dBμV)	
	Q.P	AVG		Q.P	AVG	Q.P	AVG	Q.P	AVG
0.271	48.6	----	0.2	48.8	----	61.1	51.1	-12.3	----
0.724	46.3	40.7	0.3	46.6	41.0	56.0	46.0	-9.4	-5.0
0.853	47.0	41.2	0.3	47.3	41.5	56.0	46.0	-8.7	-4.5
1.195	44.1	38.4	0.3	44.4	38.7	56.0	46.0	-11.6	-7.3
17.351	53.5	39.2	1.2	54.7	40.4	60.0	50.0	-5.3	-9.6
17.687	53.9	40.3	1.3	55.2	41.6	60.0	50.0	-4.8	-8.4

Mode: Working

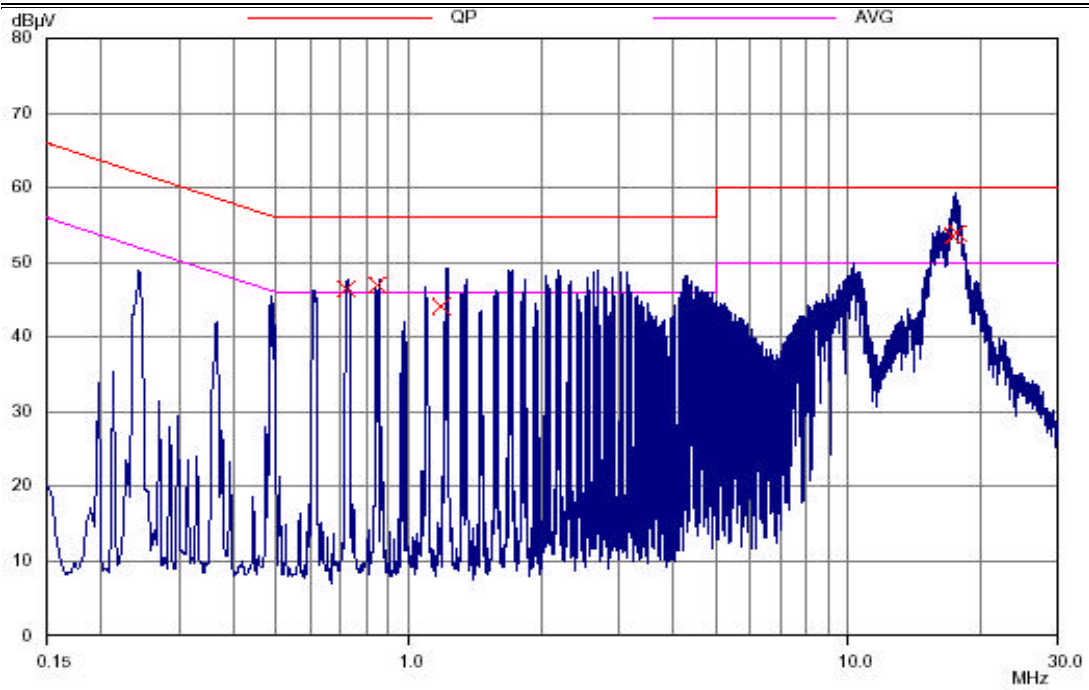
Line

Frequency (MHz)	Meter Reading (dBμV)		Factor (dB)	Result (dBμV)		Limit (dBμV)		Margin (dBμV)	
	Q.P	AVG		Q.P	AVG	Q.P	AVG	Q.P	AVG
0.243	49.4	----	0.2	49.6	----	62.0	52.0	-12.4	----
0.482	44.4	----	0.3	44.7	----	56.3	46.3	-11.6	----
0.739	45.8	39.2	0.3	46.1	39.5	56.0	46.0	-9.9	-6.5
0.857	47.1	41.1	0.3	47.4	41.4	56.0	46.0	-8.6	-4.6
1.210	47.8	40.2	0.3	48.1	40.5	56.0	46.0	-7.9	-5.5
17.421	52.9	41.3	1.2	54.1	42.5	60.0	50.0	-5.9	-7.5

- Notes:
- 1) Place of measurement: EMC LAB. of the ETC
 - 2) The EUT was placed 0.8m above reference ground plane.
 - 3) The symbol of "----" means the Q.P. value is under the limit for AVG. so, the AVG. value doesn't need to be measured.
 - 4) The expanded uncertainty of the conducted emission tests is 2.45 dB.

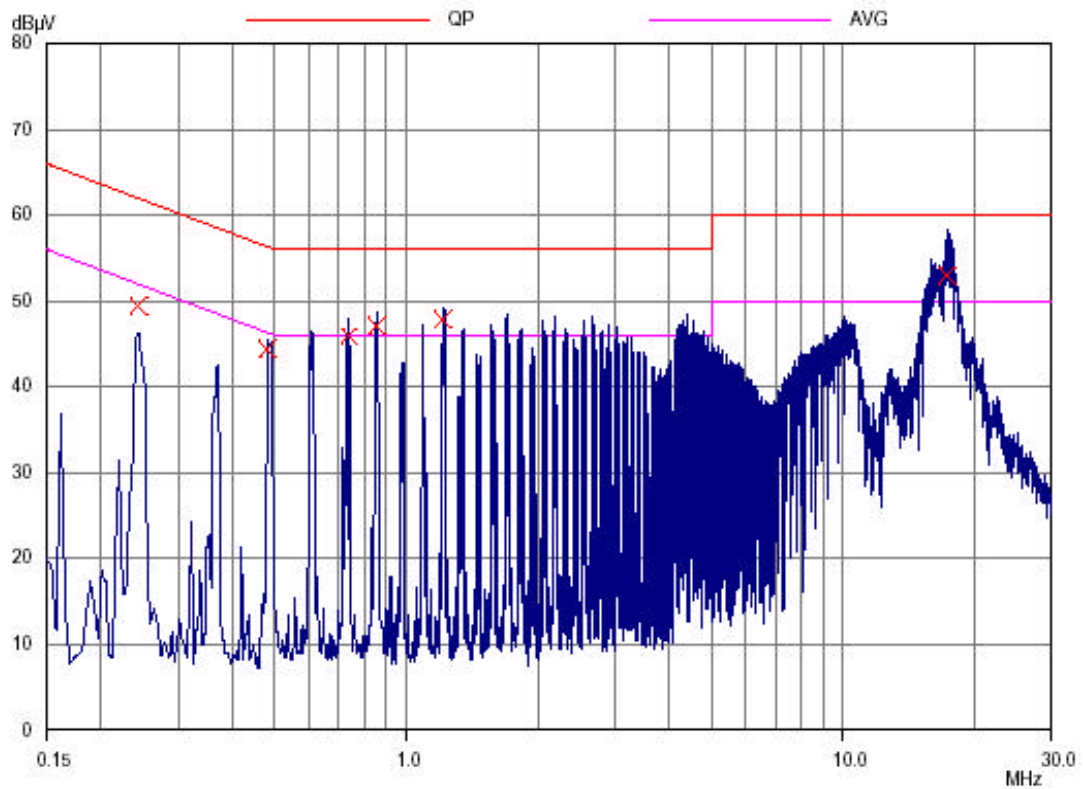
Mode: Working

Neutral



Mode: Working

Line



Mode: GRD-001/802.11bOperation Mode : Receiving / TransmittingTest Date : Apr. 22, 2007 Temperature : 27 °C Humidity : 51 %

Mode: Working Neutral

Frequency (MHz)	Meter Reading (dBμV)		Factor (dB)	Result (dBμV)		Limit (dBμV)		Margin (dBμV)	
	Q.P	AVG		Q.P	AVG	Q.P	AVG	Q.P	AVG
0.239	48.5	----	0.2	48.7	----	62.1	52.1	-13.4	----
0.857	46.8	40.6	0.3	47.1	40.9	56.0	46.0	-8.9	-5.1
1.226	47.6	41.3	0.3	47.9	41.6	56.0	46.0	-8.1	-4.4
16.085	51.1	39.2	1.2	52.3	40.4	60.0	50.0	-7.7	-9.6
16.683	51.3	40.1	1.2	52.5	41.3	60.0	50.0	-7.5	-8.7
16.765	51.0	39.8	1.2	52.2	41.0	60.0	50.0	-7.8	-9.0

Mode: Working

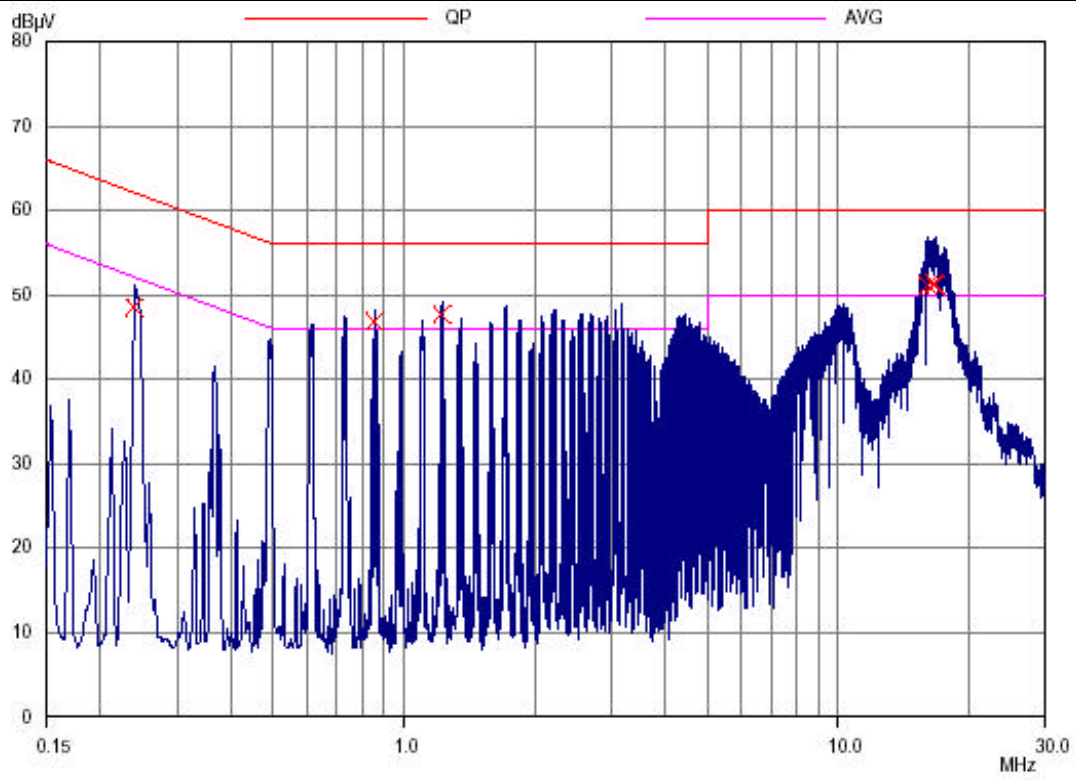
Line

Frequency (MHz)	Meter Reading (dBμV)		Factor (dB)	Result (dBμV)		Limit (dBμV)		Margin (dBμV)	
	Q.P	AVG		Q.P	AVG	Q.P	AVG	Q.P	AVG
0.251	49.8	----	0.2	50.0	----	61.7	51.7	-11.7	----
0.739	46.6	40.2	0.3	46.9	40.5	56.0	46.0	-9.1	-5.5
0.857	45.9	40.0	0.3	46.2	40.3	56.0	46.0	-9.8	-5.7
1.234	47.7	41.2	0.3	48.0	41.5	56.0	46.0	-8.0	-4.5
16.218	51.1	40.3	1.2	52.3	41.5	60.0	50.0	-7.7	-8.5
16.722	51.6	40.8	1.2	52.8	42.0	60.0	50.0	-7.2	-8.0

- Notes:
- 1) Place of measurement: EMC LAB. of the ETC
 - 2) The EUT was placed 0.8m above reference ground plane.
 - 3) The symbol of "----" means the Q.P. value is under the limit for AVG. so, the AVG. value doesn't need to be measured.
 - 4) The expanded uncertainty of the conducted emission tests is 2.45 dB.

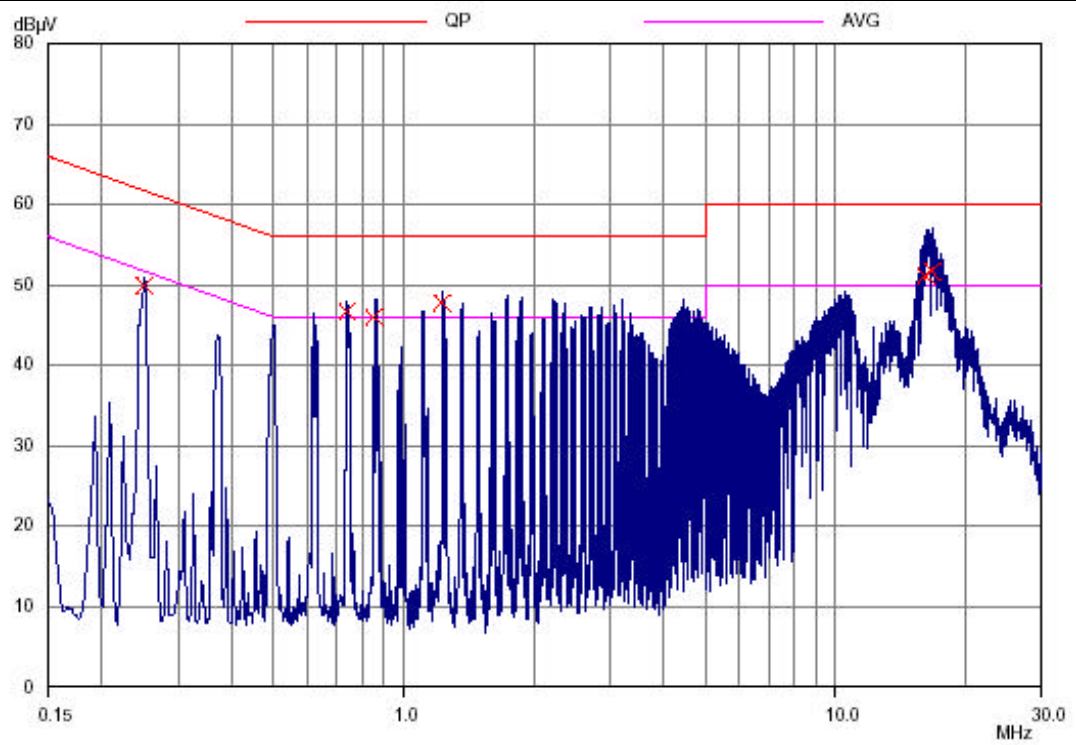
Mode: Working

Neutral



Mode: Working

Line



Mode: GRD-001/802.11gOperation Mode : Receiving / TransmittingTest Date : Apr. 22, 2007 Temperature : 27 °C Humidity : 51 %

Mode: Working Neutral

Frequency (MHz)	Meter Reading (dBμV)		Factor (dB)	Result (dBμV)		Limit (dBμV)		Margin (dBμV)	
	Q.P	AVG		Q.P	AVG	Q.P	AVG	Q.P	AVG
0.243	49.6	----	0.2	49.8	----	62.0	52.0	-12.2	----
0.728	46.4	40.3	0.3	46.7	40.6	56.0	46.0	-9.3	-5.4
0.853	46.9	40.6	0.3	47.2	40.9	56.0	46.0	-8.8	-5.1
1.201	47.8	41.2	0.3	48.1	41.5	56.0	46.0	-7.9	-4.5
17.503	54.5	40.4	1.3	55.8	41.7	60.0	50.0	-4.2	-8.3
17.695	54.6	41.3	1.3	55.9	42.6	60.0	50.0	-4.1	-7.4

Mode: Working

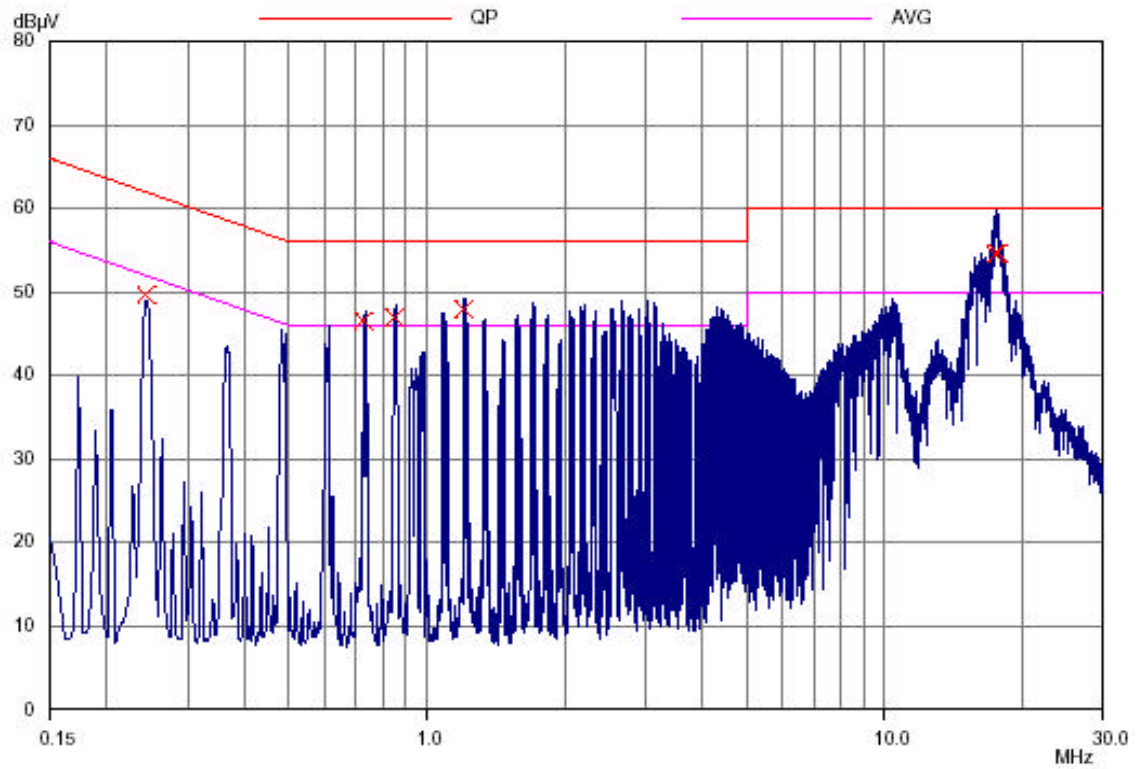
Line

Frequency (MHz)	Meter Reading (dBμV)		Factor (dB)	Result (dBμV)		Limit (dBμV)		Margin (dBμV)	
	Q.P	AVG		Q.P	AVG	Q.P	AVG	Q.P	AVG
0.739	45.6	----	0.3	45.9	----	56.0	46.0	-10.1	----
0.857	47.0	41.2	0.3	47.3	41.5	56.0	46.0	-8.7	-4.5
1.210	47.8	41.4	0.3	48.1	41.7	56.0	46.0	-7.9	-4.3
1.703	47.1	41.2	0.4	47.5	41.6	56.0	46.0	-8.5	-4.4
17.421	52.6	40.3	1.2	53.8	41.5	60.0	50.0	-6.2	-8.5
17.566	52.9	41.6	1.3	54.2	42.9	60.0	50.0	-5.8	-7.1

- Notes:
- 1) Place of measurement: EMC LAB. of the ETC
 - 2) The EUT was placed 0.8m above reference ground plane.
 - 3) The symbol of "----" means the Q.P. value is under the limit for AVG. so, the AVG. value doesn't need to be measured.
 - 4) The expanded uncertainty of the conducted emission tests is 2.45 dB.

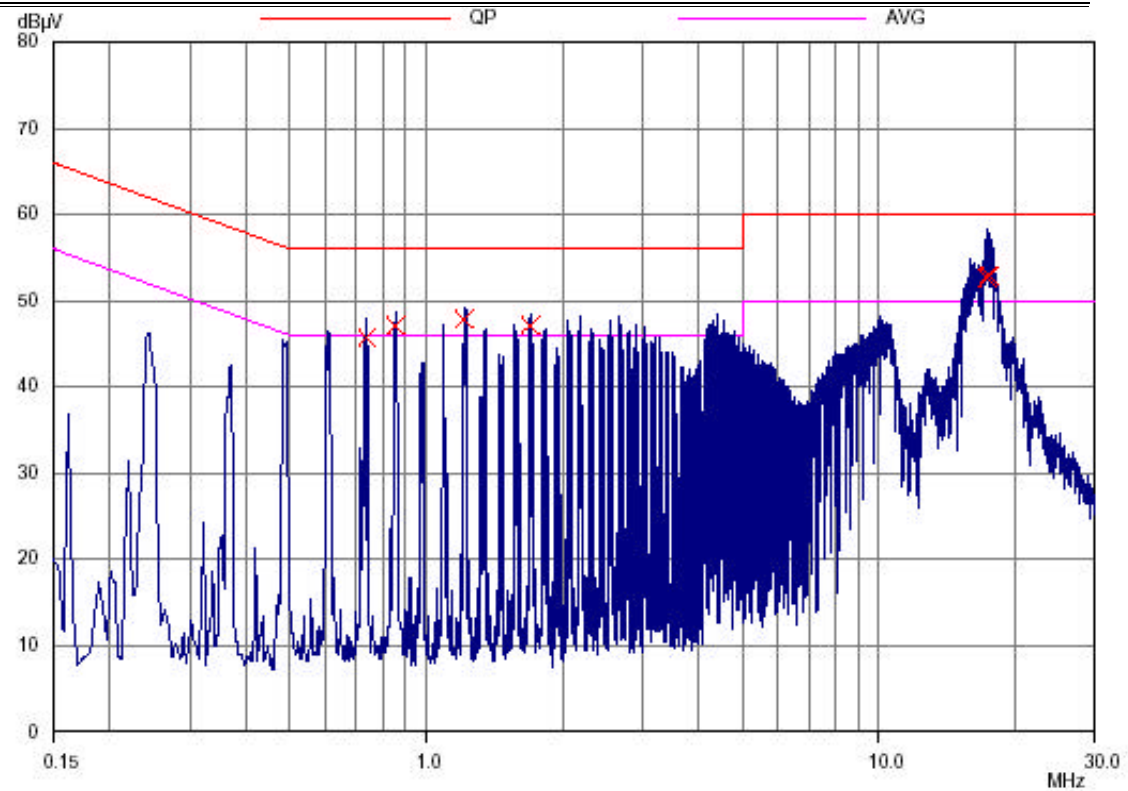
Mode: Working

Neutral



Mode: Working

Line



Mode: SA-101/802.11bOperation Mode : Receiving / TransmittingTest Date : Apr. 22, 2007 Temperature : 27 °C Humidity : 51 %

Mode: Working Neutral

Frequency (MHz)	Meter Reading (dBμV)		Factor (dB)	Result (dBμV)		Limit (dBμV)		Margin (dBμV)	
	Q.P	AVG		Q.P	AVG	Q.P	AVG	Q.P	AVG
0.271	35.2	----	0.2	35.4	----	61.1	51.1	-25.7	----
0.536	31.3	----	0.3	31.6	----	56.0	46.0	-24.4	----
0.939	34.7	----	0.3	35.0	----	56.0	46.0	-21.0	----
1.347	44.3	----	0.4	44.7	----	56.0	46.0	-11.3	----
16.164	51.4	40.2	1.2	52.6	41.4	60.0	50.0	-7.4	-8.6
16.777	51.9	41.3	1.2	53.1	42.5	60.0	50.0	-6.9	-7.5

Mode: Working

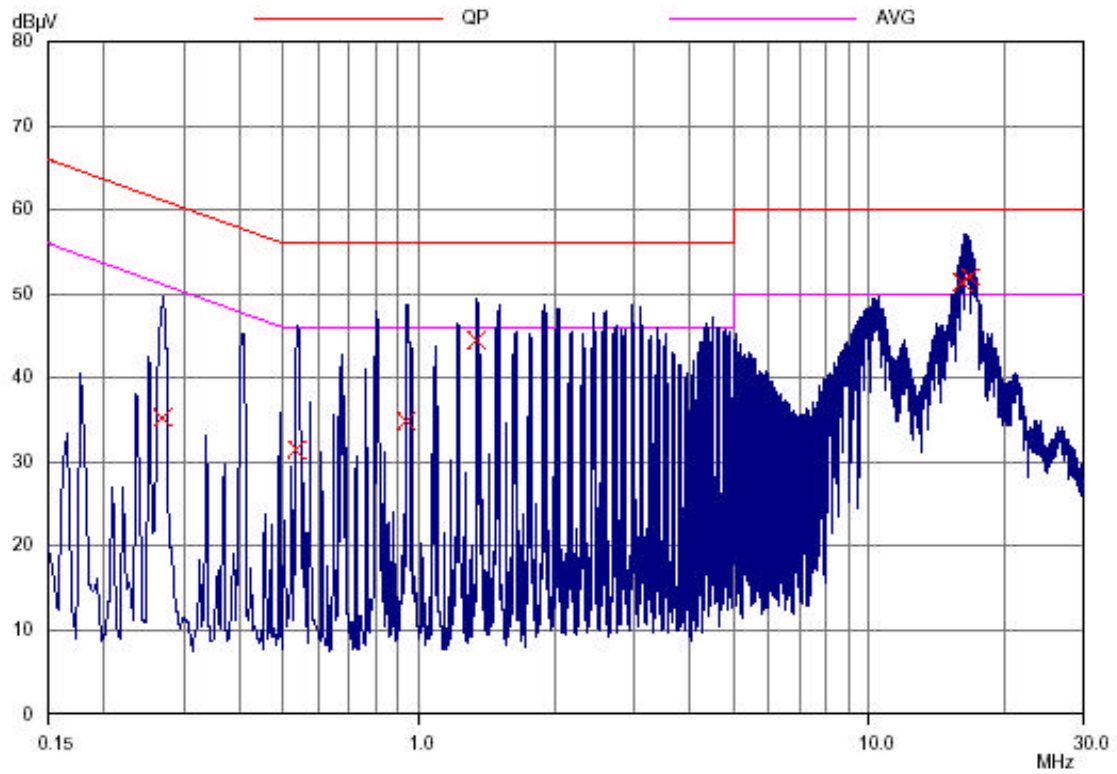
Line

Frequency (MHz)	Meter Reading (dBμV)		Factor (dB)	Result (dBμV)		Limit (dBμV)		Margin (dBμV)	
	Q.P	AVG		Q.P	AVG	Q.P	AVG	Q.P	AVG
0.739	47.5	42.7	0.3	47.8	43.0	56.0	46.0	-8.2	-3.0
1.101	46.4	38.8	0.3	46.7	39.1	56.0	46.0	-9.3	-6.9
1.222	47.4	39.6	0.3	47.7	39.9	56.0	46.0	-8.3	-6.1
3.199	45.7	31.0	0.6	46.3	31.6	56.0	46.0	-9.7	-14.4
16.445	52.8	38.9	1.2	54.0	40.1	60.0	50.0	-6.0	-9.9
16.722	52.6	39.3	1.2	53.8	40.5	60.0	50.0	-6.2	-9.5

- Notes:
- 1) Place of measurement: EMC LAB. of the ETC
 - 2) The EUT was placed 0.8m above reference ground plane.
 - 3) The symbol of "----" means the Q.P. value is under the limit for AVG. so, the AVG. value doesn't need to be measured.
 - 4) The expanded uncertainty of the conducted emission tests is 2.45 dB.

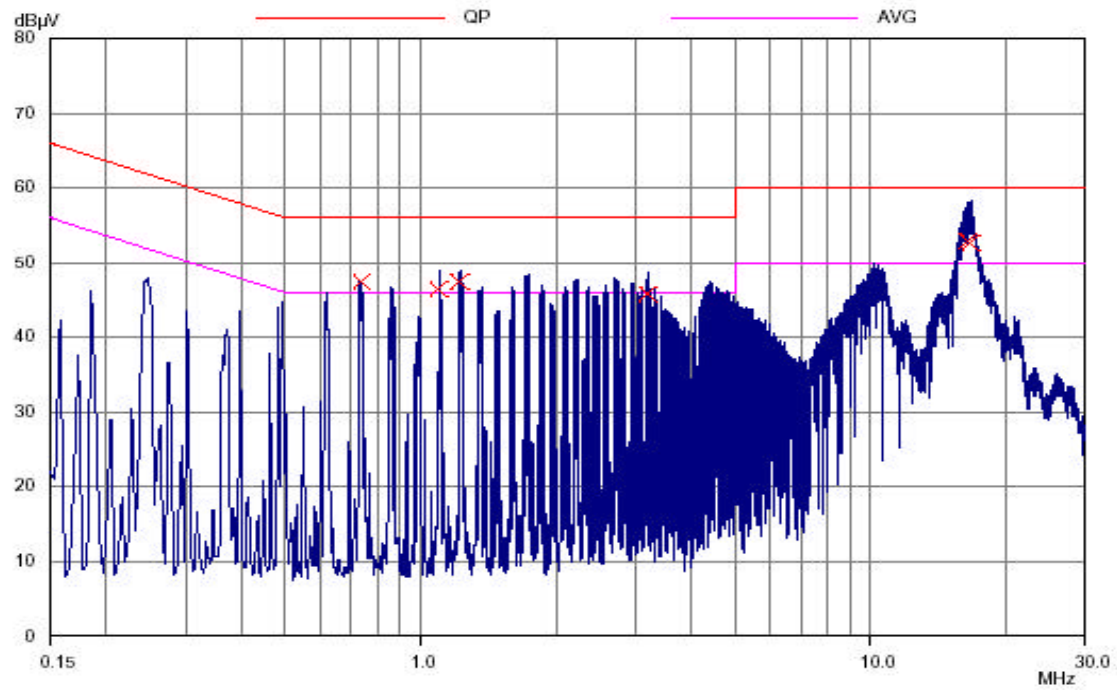
Mode: Working

Neutral



Mode: Working

Line



Mode: SA-101/802.11gOperation Mode : Receiving / TransmittingTest Date : Apr. 22, 2007 Temperature : 27 °C Humidity : 51 %

Mode: Working Neutral

Frequency (MHz)	Meter Reading (dBμV)		Factor (dB)	Result (dBμV)		Limit (dBμV)		Margin (dBμV)	
	Q.P	AVG		Q.P	AVG	Q.P	AVG	Q.P	AVG
0.243	49.6	----	0.2	49.8	----	62.0	52.0	-12.2	----
0.860	47.4	40.8	0.3	47.7	41.1	56.0	46.0	-8.3	-4.9
1.210	47.8	41.1	0.3	48.1	41.4	56.0	46.0	-7.9	-4.6
1.703	47.3	41.0	0.4	47.7	41.4	56.0	46.0	-8.3	-4.6
17.503	54.6	40.3	1.3	55.9	41.6	60.0	50.0	-4.1	-8.4
17.550	54.7	41.6	1.3	56.0	42.9	60.0	50.0	-4.0	-7.1

Mode: Working

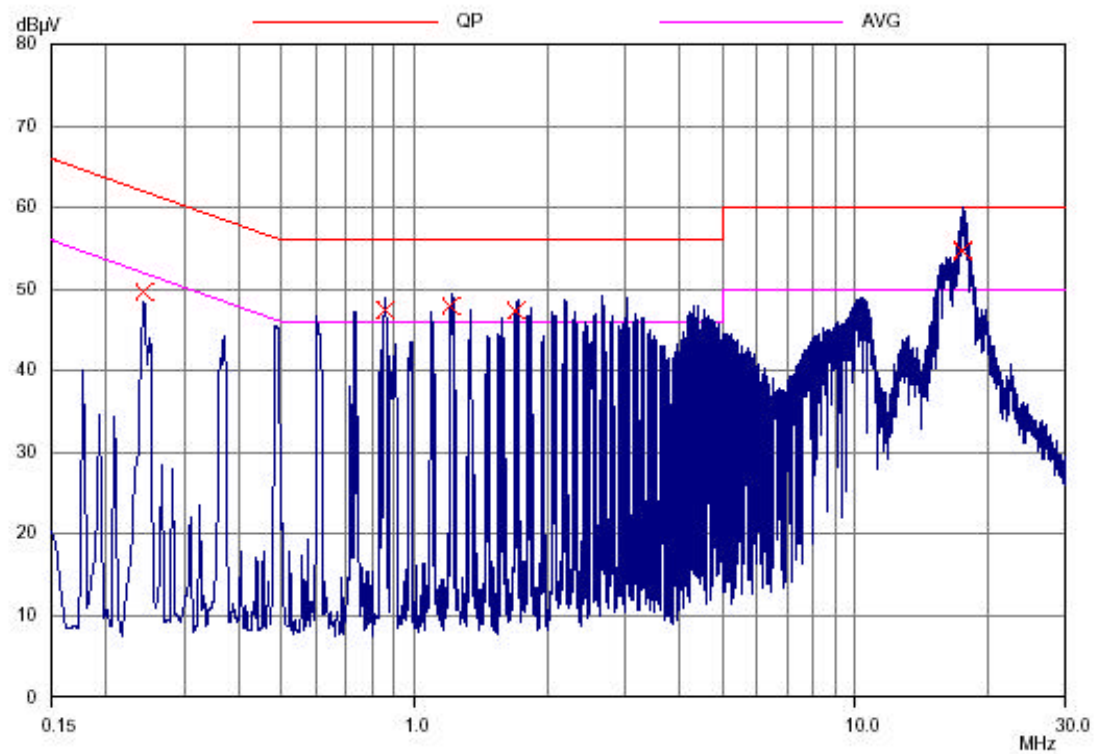
Line

Frequency (MHz)	Meter Reading (dBμV)		Factor (dB)	Result (dBμV)		Limit (dBμV)		Margin (dBμV)	
	Q.P	AVG		Q.P	AVG	Q.P	AVG	Q.P	AVG
0.247	49.5	----	0.2	49.7	----	61.9	51.9	-12.1	----
0.732	46.7	39.2	0.3	47.0	39.5	56.0	46.0	-9.0	-6.5
1.230	47.9	40.1	0.3	48.2	40.4	56.0	46.0	-7.8	-5.6
2.207	46.3	39.8	0.5	46.8	40.3	56.0	46.0	-9.2	-5.7
4.289	45.6	38.2	0.6	46.2	38.8	56.0	46.0	-9.8	-7.2
16.824	48.8	40.1	1.2	50.0	41.3	60.0	50.0	-10.0	-8.7

- Notes:
- 1) Place of measurement: EMC LAB. of the ETC
 - 2) The EUT was placed 0.8m above reference ground plane.
 - 3) The symbol of "----" means the Q.P. value is under the limit for AVG. so, the AVG. value doesn't need to be measured.
 - 4) The expanded uncertainty of the conducted emission tests is 2.45 dB.

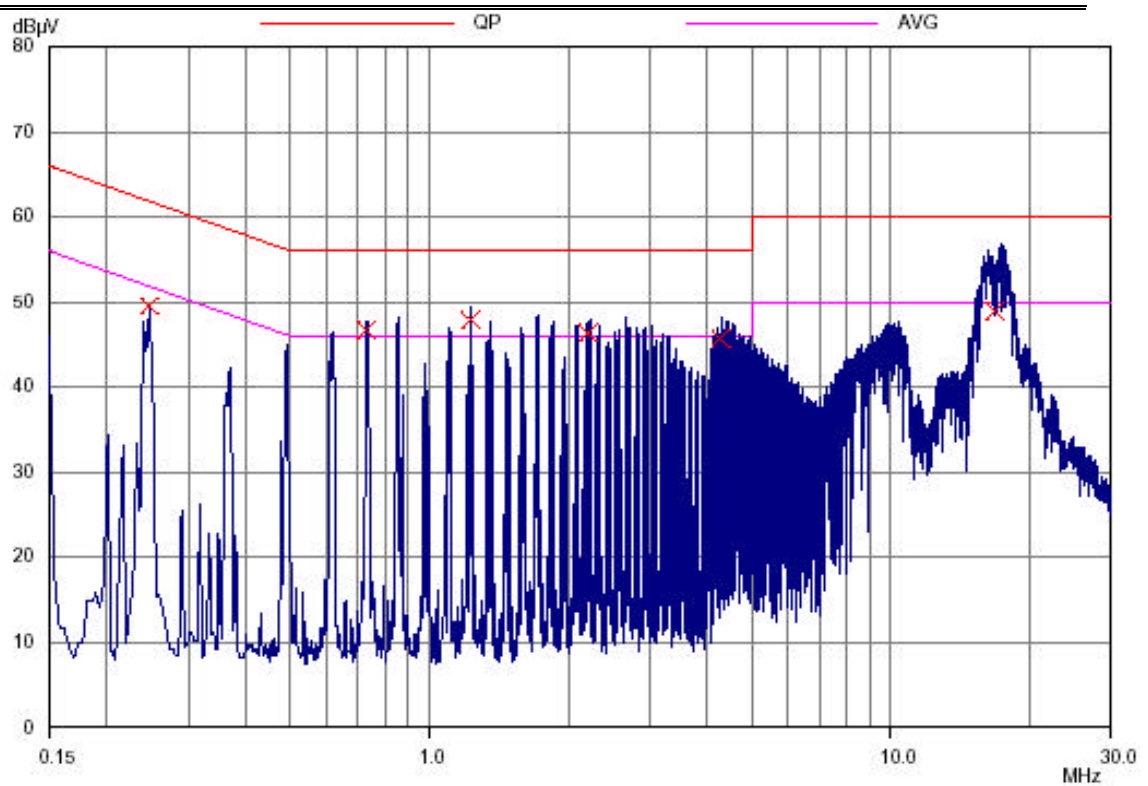
Mode: Working

Neutral



Mode: Working

Line



Mode: PA-L01/802.11bOperation Mode : Receiving / TransmittingTest Date : Apr. 22, 2007 Temperature : 27 °C Humidity : 51 %

Mode: Working Neutral

Frequency (MHz)	Meter Reading (dBμV)		Factor (dB)	Result (dBμV)		Limit (dBμV)		Margin (dBμV)	
	Q.P	AVG		Q.P	AVG	Q.P	AVG	Q.P	AVG
0.251	50.3	----	0.2	50.5	----	61.7	51.7	-11.2	----
0.876	47.4	36.8	0.3	47.7	37.1	56.0	46.0	-8.3	-8.9
1.230	47.6	37.3	0.3	47.9	37.6	56.0	46.0	-8.1	-8.4
10.636	43.8	----	0.8	44.6	----	60.0	50.0	-15.4	----
16.304	52.1	38.1	1.2	53.3	39.3	60.0	50.0	-6.7	-10.7
16.531	52.2	38.6	1.2	53.4	39.8	60.0	50.0	-6.6	-10.2

Mode: Working

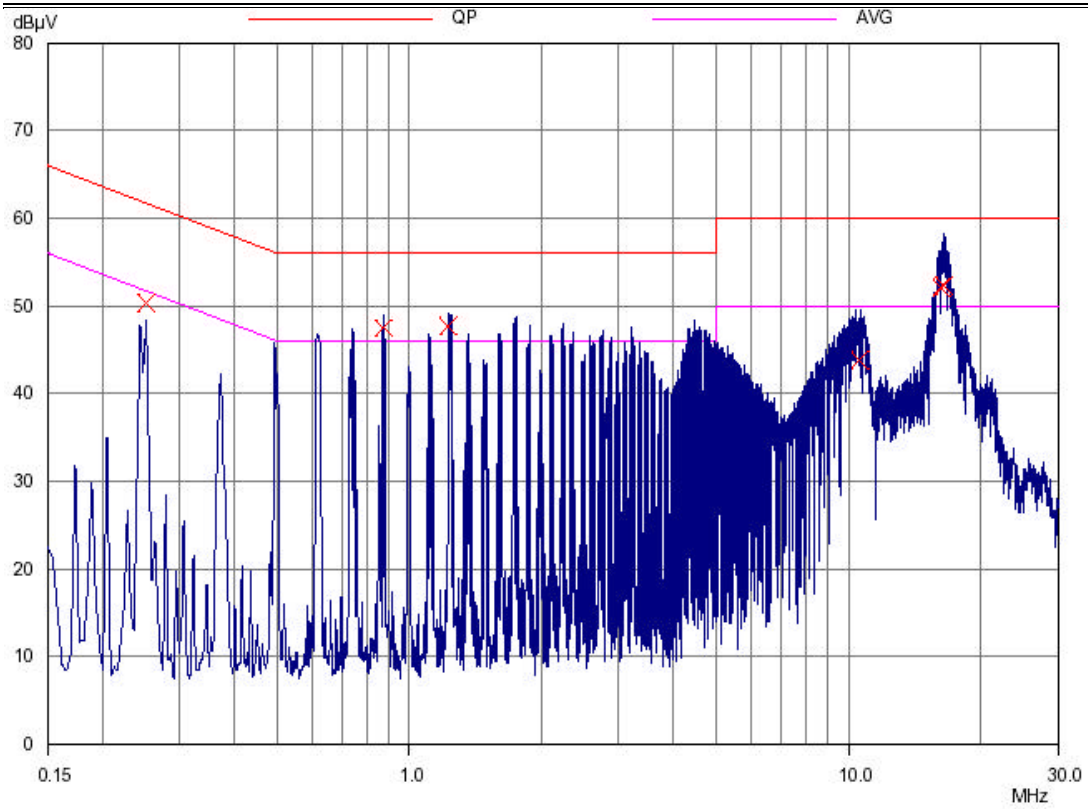
Line

Frequency (MHz)	Meter Reading (dBμV)		Factor (dB)	Result (dBμV)		Limit (dBμV)		Margin (dBμV)	
	Q.P	AVG		Q.P	AVG	Q.P	AVG	Q.P	AVG
0.247	49.9	40.3	0.2	50.1	40.5	61.9	51.9	-11.7	-11.3
0.857	47.1	40.2	0.3	47.4	40.5	56.0	46.0	-8.6	-5.5
1.222	47.8	36.8	0.3	48.1	37.1	56.0	46.0	-7.9	-8.9
1.695	46.3	37.3	0.4	46.7	37.7	56.0	46.0	-9.3	-8.3
16.300	51.0	38.1	1.2	52.2	39.3	60.0	50.0	-7.8	-10.7
17.328	50.7	38.8	1.2	51.9	40.0	60.0	50.0	-8.1	-10.0

- Notes:
- 1) Place of measurement: EMC LAB. of the ETC
 - 2) The EUT was placed 0.8m above reference ground plane.
 - 3) The symbol of "----" means the Q.P. value is under the limit for AVG. so, the AVG. value doesn't need to be measured.
 - 4) The expanded uncertainty of the conducted emission tests is 2.45 dB.

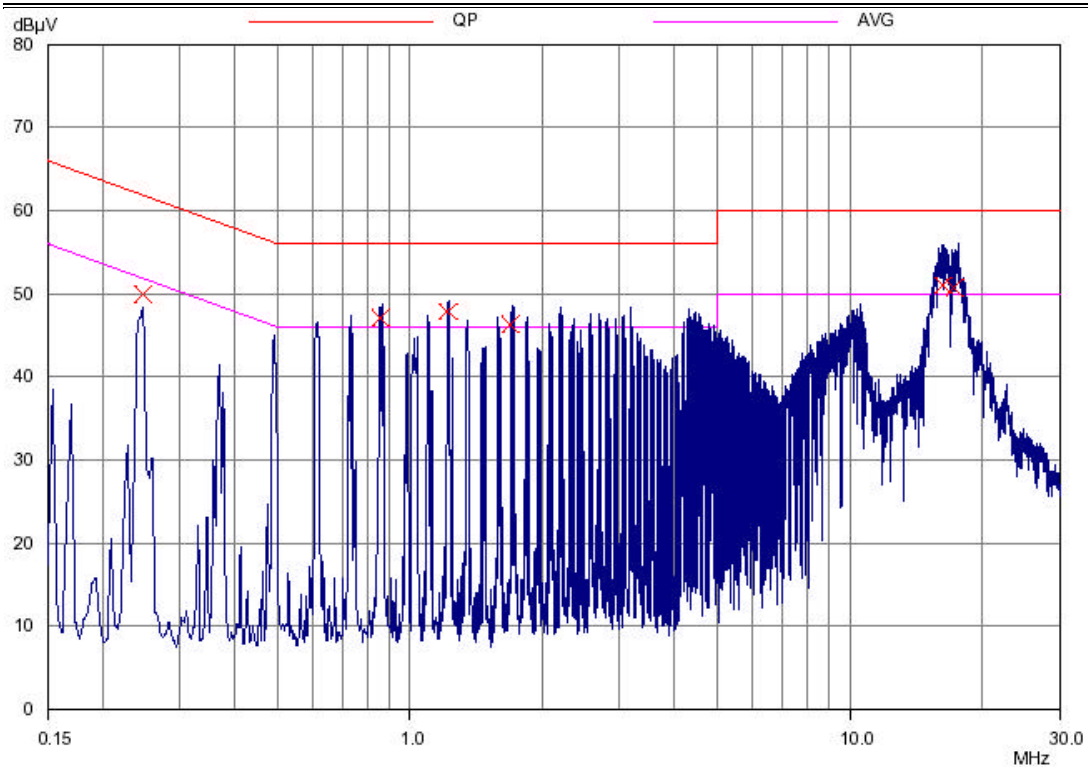
Mode: Working

Neutral



Mode: Working

Line



Mode: PA-L01/802.11gOperation Mode : Receiving / TransmittingTest Date : Apr. 22, 2007 Temperature : 27 °C Humidity : 51 %

Mode: Working Neutral

Frequency (MHz)	Meter Reading (dBμV)		Factor (dB)	Result (dBμV)		Limit (dBμV)		Margin (dBμV)	
	Q.P	AVG		Q.P	AVG	Q.P	AVG	Q.P	AVG
0.247	49.4	45.1	0.2	49.6	45.3	61.9	51.9	-12.2	-6.5
0.735	46.4	42.3	0.3	46.7	42.6	56.0	46.0	-9.3	-3.4
0.845	46.4	36.6	0.3	46.7	36.9	56.0	46.0	-9.3	-9.1
1.203	45.9	28.6	0.3	46.2	28.9	56.0	46.0	-9.8	-17.1
17.433	54.5	41.7	1.2	55.7	42.9	60.0	50.0	-4.3	-7.1
17.492	54.7	42.0	1.2	55.9	43.2	60.0	50.0	-4.1	-6.8

Mode: Working

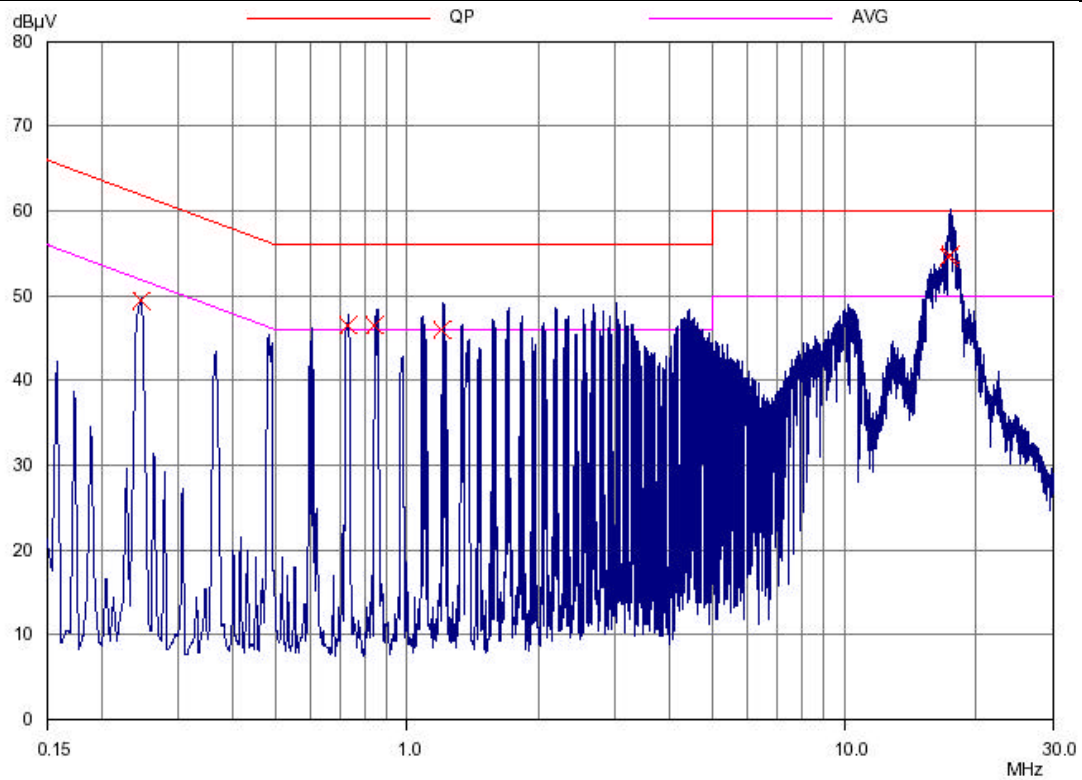
Line

Frequency (MHz)	Meter Reading (dBμV)		Factor (dB)	Result (dBμV)		Limit (dBμV)		Margin (dBμV)	
	Q.P	AVG		Q.P	AVG	Q.P	AVG	Q.P	AVG
0.738	45.6	41.2	0.3	45.9	41.5	56.0	46.0	-10.1	-4.5
0.856	47.1	40.3	0.3	47.4	40.6	56.0	46.0	-8.6	-5.4
1.210	47.8	32.9	0.3	48.1	33.2	56.0	46.0	-7.9	-12.8
1.703	47.1	38.2	0.4	47.5	38.6	56.0	46.0	-8.5	-7.4
17.422	52.6	37.4	1.2	53.8	38.6	60.0	50.0	-6.2	-11.4
17.567	52.9	36.8	1.3	54.2	38.1	60.0	50.0	-5.8	-11.9

- Notes:
- 1) Place of measurement: EMC LAB. of the ETC
 - 2) The EUT was placed 0.8m above reference ground plane.
 - 3) The symbol of "----" means the Q.P. value is under the limit for AVG. so, the AVG. value doesn't need to be measured.
 - 4) The expanded uncertainty of the conducted emission tests is 2.45 dB.

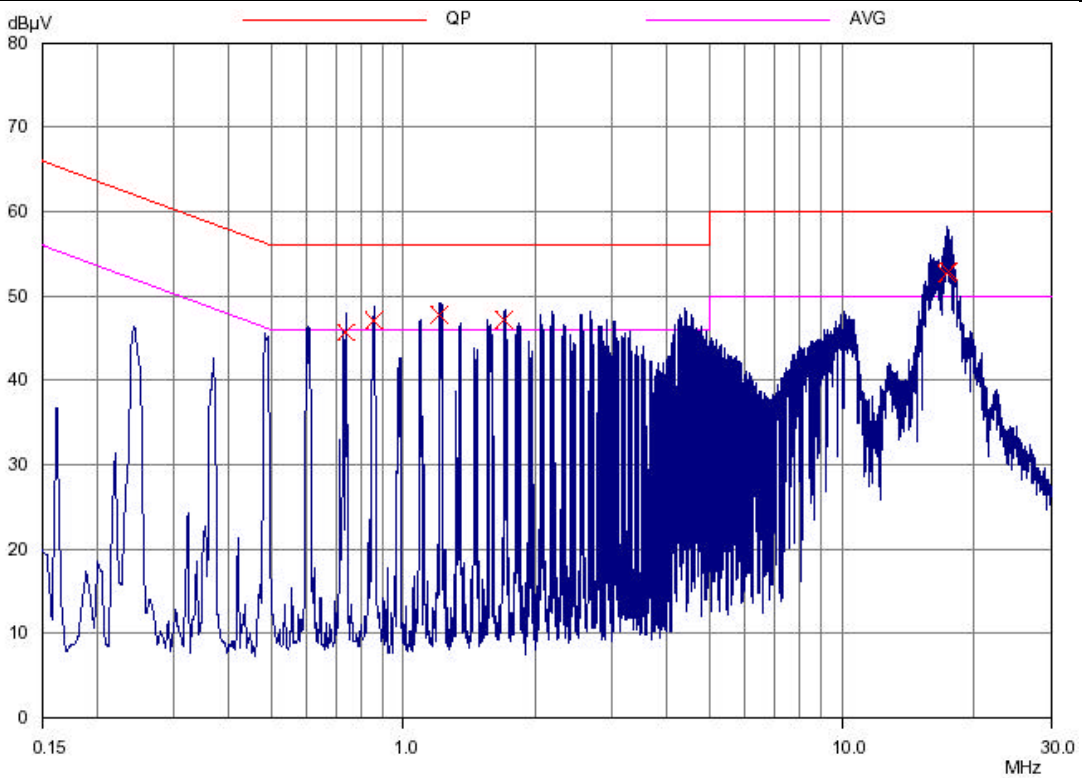
Mode: Working

Neutral



Mode: Working

Line



5.4 Result Data Calculation

The result data is calculated by adding the LISN Factor to the measured reading. The basic equation with a sample calculation is as follows:

$$\text{RESULT} = \text{READING} + \text{LISN FACTOR}$$

Assume a receiver reading of 22.5 dB μ V is obtained, and LISN Factor is 0.1 dB, then the total of disturbance voltage is 22.6 dB μ V.

$$\text{RESULT} = 22.5 + 0.1 = 22.6 \text{ dB } \mu \text{ V}$$

$$\begin{aligned} \text{Level in } \mu \text{ V} &= \text{Common Antilogarithm}[(22.6 \text{ dB } \mu \text{ V})/20] \\ &= 13.48 \text{ } \mu \text{ V} \end{aligned}$$

5.5 Conducted Measurement Equipment

The following test equipment are used during the conducted test .

Equipment	Manufacturer	Model No.	Next Cal. Due
EMI Test Receiver	Rohde & Schwarz	ESCI	11/27/2007
Line Impedance Stabilization network	EMCO	3825/2	07/03/2007
Line Impedance Stabilization network	Rohde & Schwarz	ESH2-Z5	09/11/2007
Monitor	IBM	E54	N.C.R.
Printer	HP	LaserJet 1000	N.C.R.
Shielded Room	Riken	----	N.C.R.
Computer	Acer	Veriton	N.C.R.

5.6 Photos of Conduction Measuring Setup

Mode: OB-003



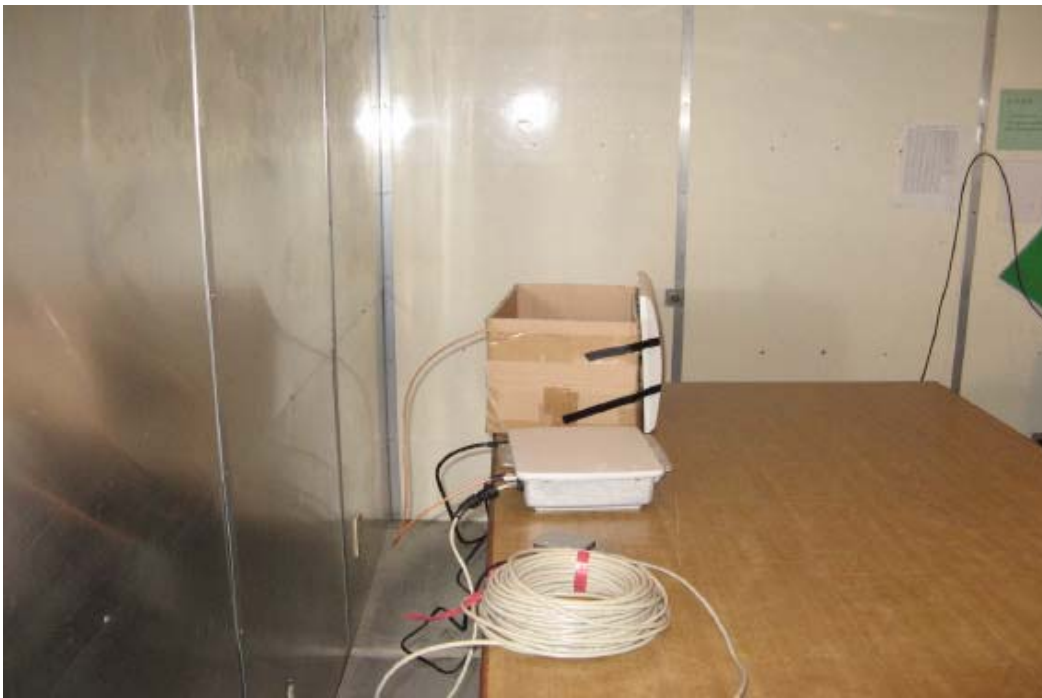
Mode: GRD-001



Mode: SA-101



Mode: PA-L01



6 ANTENNA REQUIREMENT

6.1 Standard Applicable

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to §15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to §15.247 (c)(1)(i), systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

6.2 Antenna Construction and Directional Gain

There are four antenna reported. The antenna type and antenna gain were listed below. Please see construction Photos of Exhibit B and the antenna specifications of Exhibits M for details.

Model	Type	Antenna Gain	Application
PA-L01	Panel antenna	18 dBi	Fixed, point-to-point
GRD-001	Grid antenna	24 dBi	Fixed, point-to-point
OB-003	Omni antenna	12 dBi	Fixed, point-to-point or Fixed, point-to-multipoint
SA-101	Sector antenna	12 dBi	Fixed, point-to-point or Fixed, point-to-multipoint

For point-to-multipoint operations, the highest antenna gain of antennas is 12dBi.

The power should be reduced by 6dBi. Thus the power limit is 24dBm.

For point-to-point operations, the highest antenna gain of antennas is 24dBi.

The power should be reduced by 6dB. Thus the power limit is 24dBm.

7 EMISSION BANDWIDTH MEASUREMENT

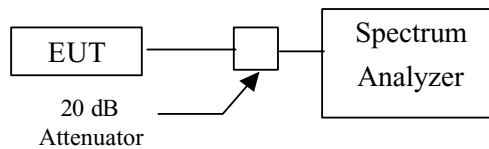
7.1 Standard Applicable

According to 15.247(a)(2), for direct sequence system, the minimum 6dB bandwidth shall be at least 500 kHz.

7.2 Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT as shown in figure 4 without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

Figure 4: Emission bandwidth measurement configuration.



7.3 Measurement Equipment

Equipment	Manufacturer	Model No.	Next Cal. Due
Spectrum Analyzer	Rohde & Schwarz	FSP40	08/07/2007
Attenuator	Weinschel Engineering	1	N/A
Plotter	Hewlett-Packard	7440A	N/A

7.4 Measurement Data

Test Date : MAY 01, 2007 Temperature : 23 °C Humidity : 52 %

A 802.11b

- a) Channel Low : 6 dB Emission Bandwidth is 11.6 MHz
- b) Channel Middle : 6 dB Emission Bandwidth is 12.0 MHz
- c) Channel High : 6 dB Emission Bandwidth is 12.0 MHz

B 802.11g

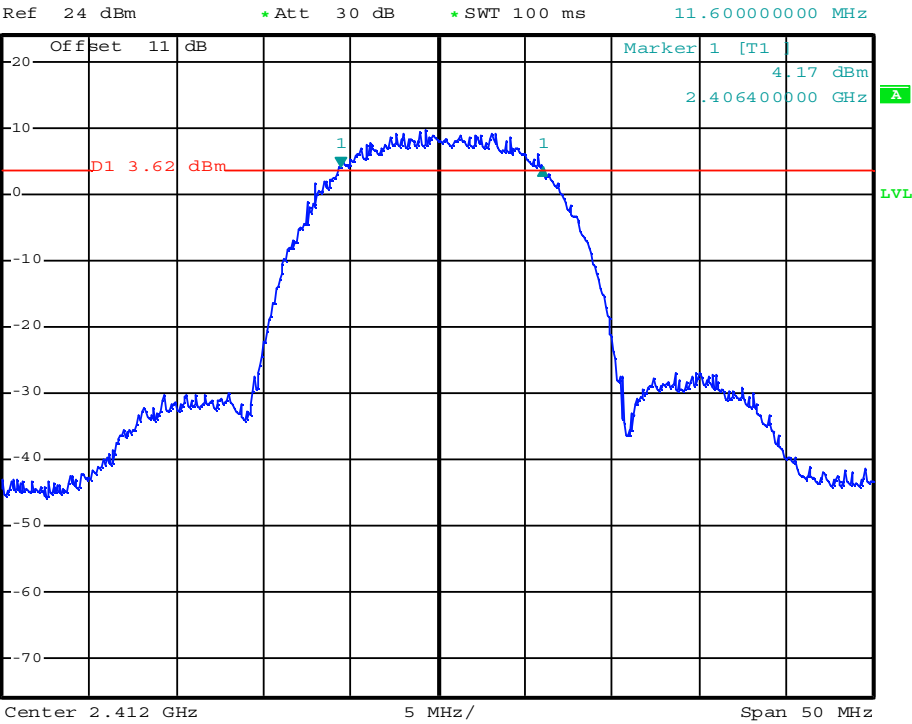
- a) Channel Low : 6 dB Emission Bandwidth is 16.5 MHz
- b) Channel Middle : 6 dB Emission Bandwidth is 16.5 MHz
- c) Channel High : 6 dB Emission Bandwidth is 16.5 MHz

Note : *The expanded uncertainty of the emission bandwidth tests is 1500Hz.*

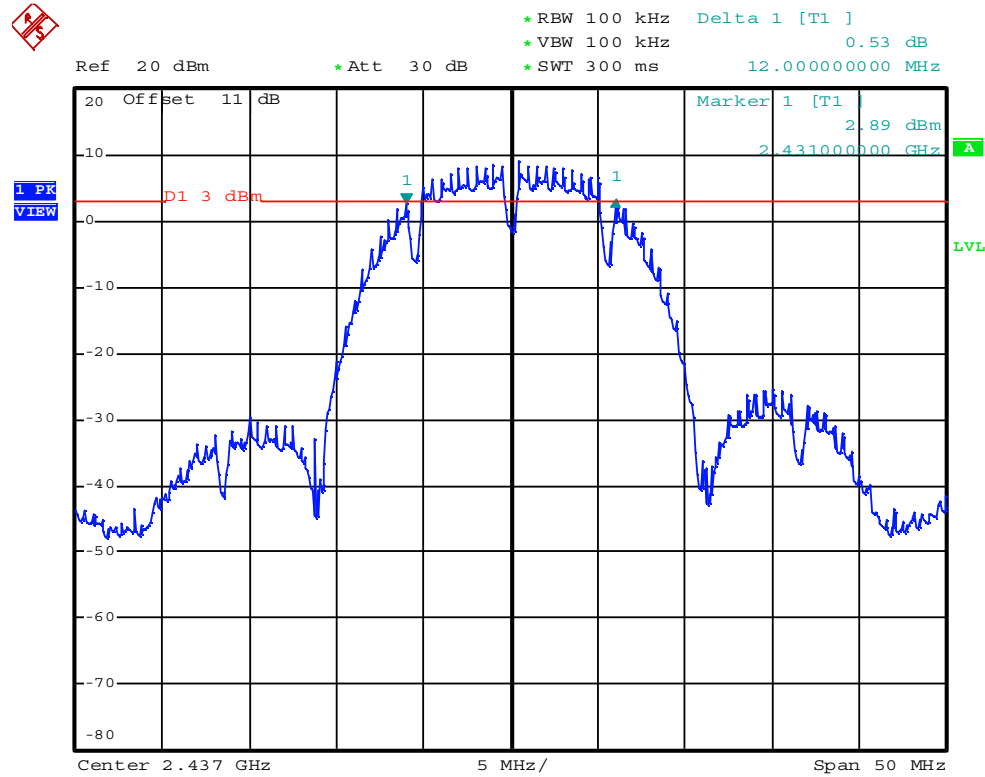
Mode: 802.11b/Channel Low



* RBW 100 kHz Delta 1 [T1]
* VBW 100 kHz -0.02 dB
* SWT 100 ms 11.600000000 MHz

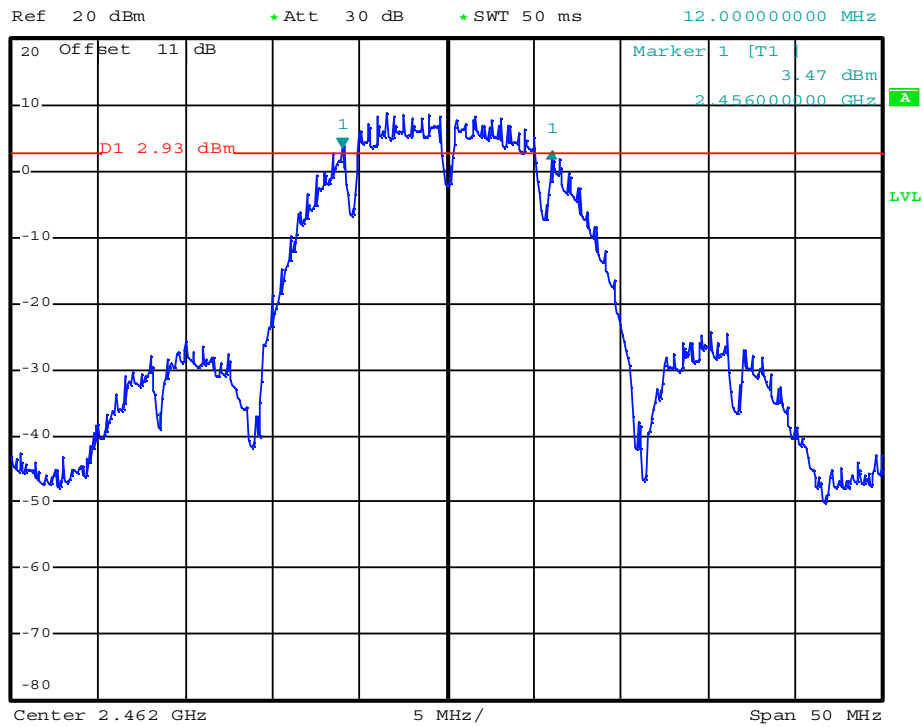


Mode: 802.11b/Channel Middle



Mode: 802.11b/Channel High

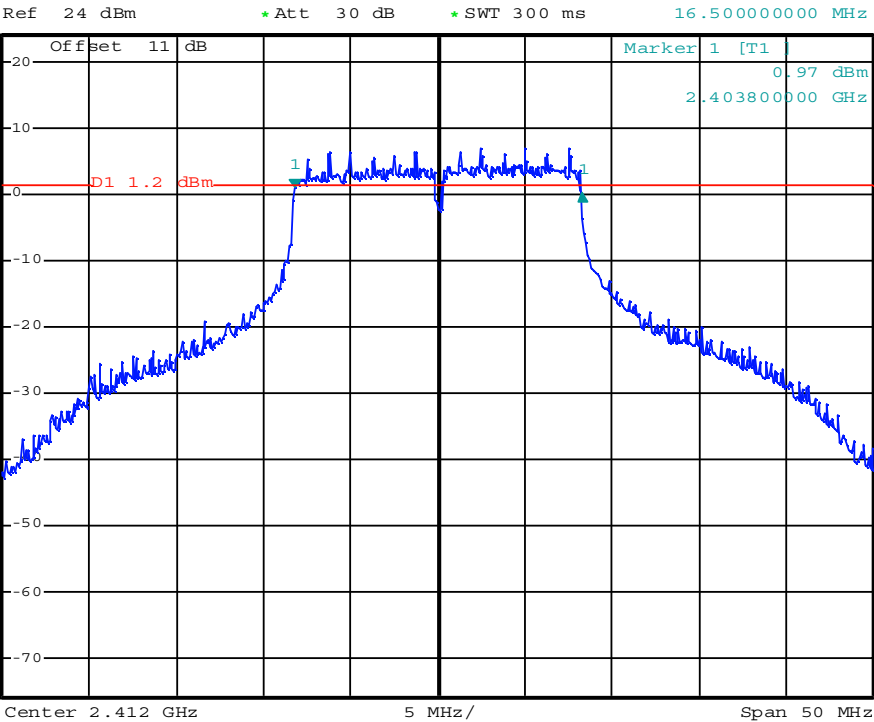
* RBW 100 kHz Delta 1 [T1]
* VBW 100 kHz -0.38 dB
* SWT 50 ms 12.000000000 MHz



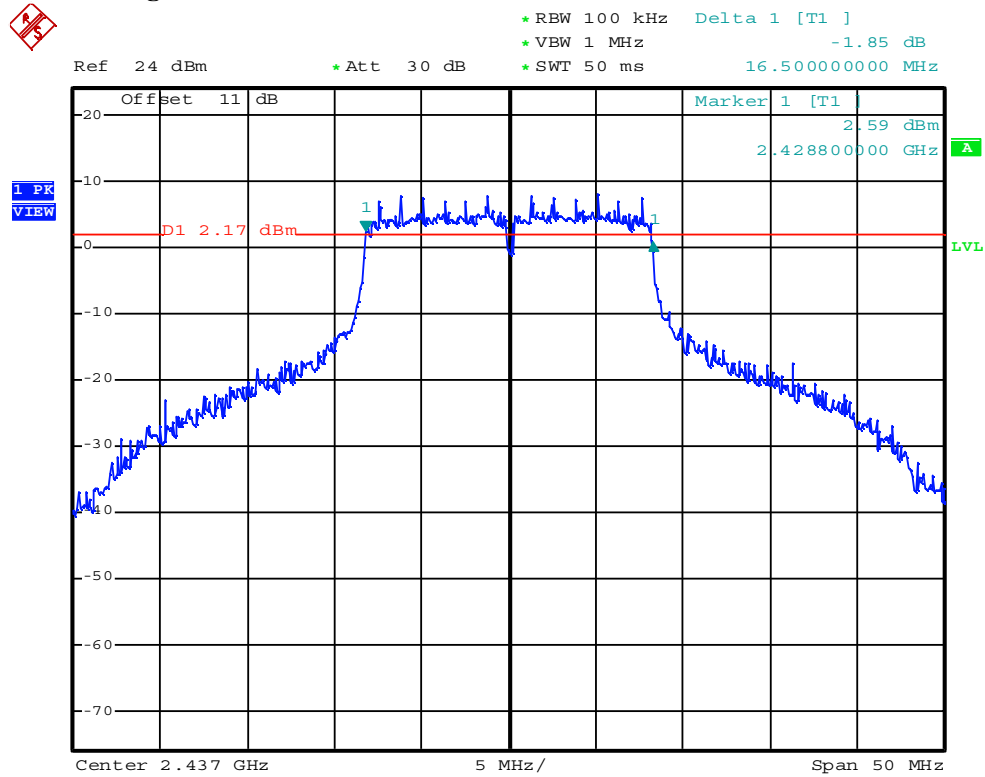
Mode: 802.11g/Channel Low



* RBW 100 kHz Delta 1 [T1]
* VBW 100 kHz -0.84 dB
* SWT 300 ms 16.500000000 MHz



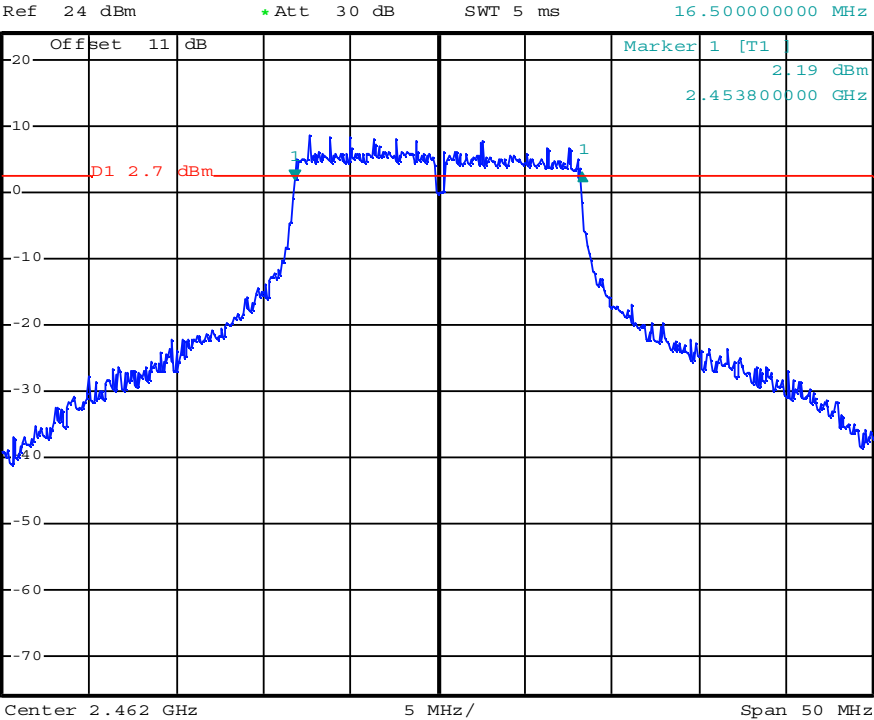
Mode: 802.11g/Channel Middle



Mode: 802.11g/Channel High



* RBW 100 kHz Delta 1 [T1]
* VBW 100 kHz 0.84 dB
SWT 5 ms 16.50000000 MHz



8 OUTPUT POWER MEASUREMENT

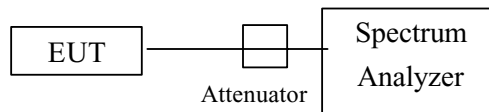
8.1 Standard Applicable

For direct sequence system, according to 15.247(b), the maximum peak output power of the transmitter shall not exceed 1 Watt. If transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.2 Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT as shown in figure 5 without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 1 MHz and VBW to 1 MHz.
4. Use channel power function and record the level displayed.
5. Repeat above procedures until all frequencies measured were complete.

Figure 5: Output power and measurement configuration.



8.3 Measurement Equipment

Equipment	Manufacturer	Model No.	Next Cal. Due
Spectrum Analyzer	Rohde & Schwarz	FSP40	08/07/2007
Attenuator	Weinschel Engineering	1	N/A
Plotter	Hewlett-Packard	7440A	N/A

8.4 Measurement Data

Test Date : MAY 01, 2007 Temperature : 23 °C Humidity : 52 %

For both point-to point or point-to multipoint operations the power limit is 24dBm.

A 802.11b

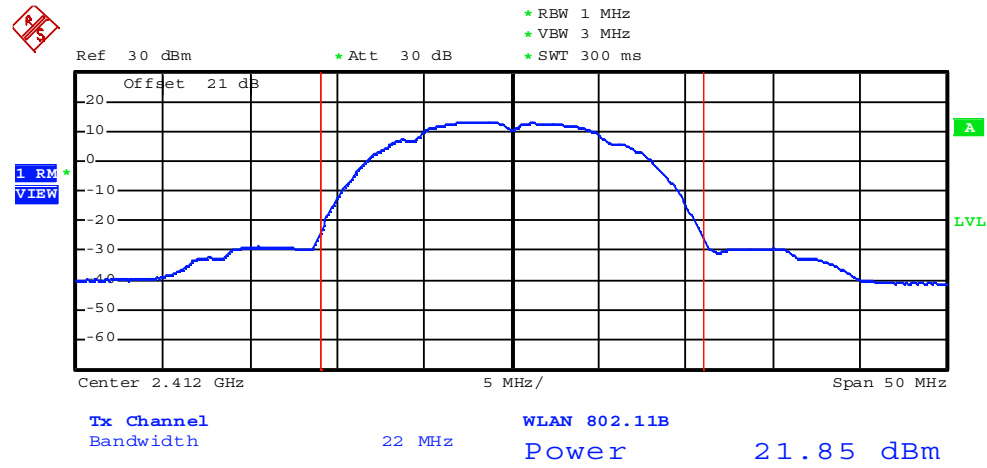
- | | | | |
|-------------------|------------------------|--------------|-------------------|
| a) Channel Low | : Output Peak Power is | 21.85 dBm or | 153.109 mW |
| b) Channel Middle | : Output Peak Power is | 22.22 dBm or | 166.725 mW |
| c) Channel High | : Output Peak Power is | 22.45 dBm or | 175.792 mW |

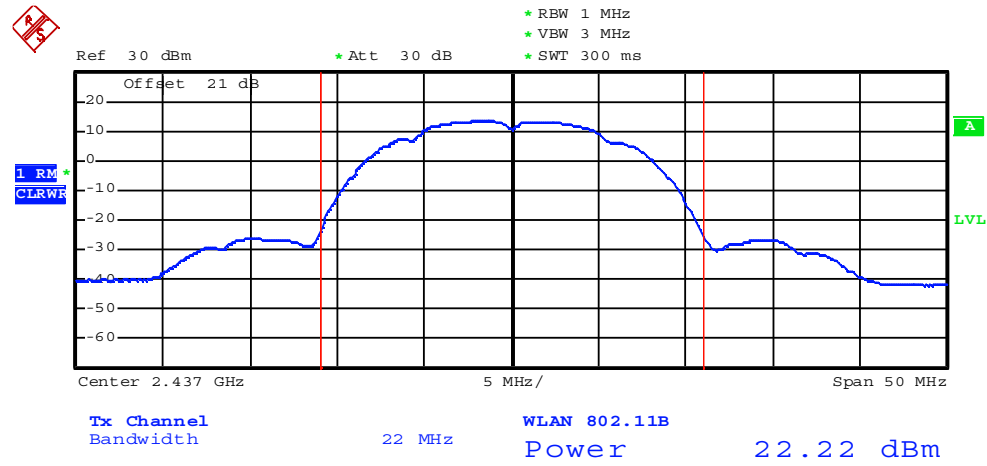
B 802.11g

- | | | | |
|-------------------|------------------------|--------------|-------------------|
| a) Channel Low | : Output Peak Power is | 20.41 dBm or | 109.901 mW |
| b) Channel Middle | : Output Peak Power is | 20.12 dBm or | 102.802 mW |
| c) Channel High | : Output Peak Power is | 20.60 dBm or | 114.815 mW |

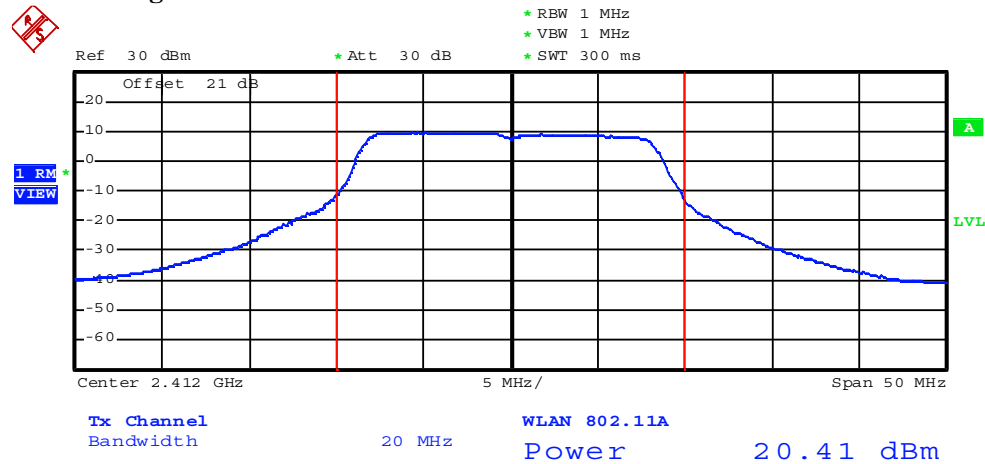
Note : The expanded uncertainty of the output power tests is 2dB.

Mode: 802.11b/Channel Low

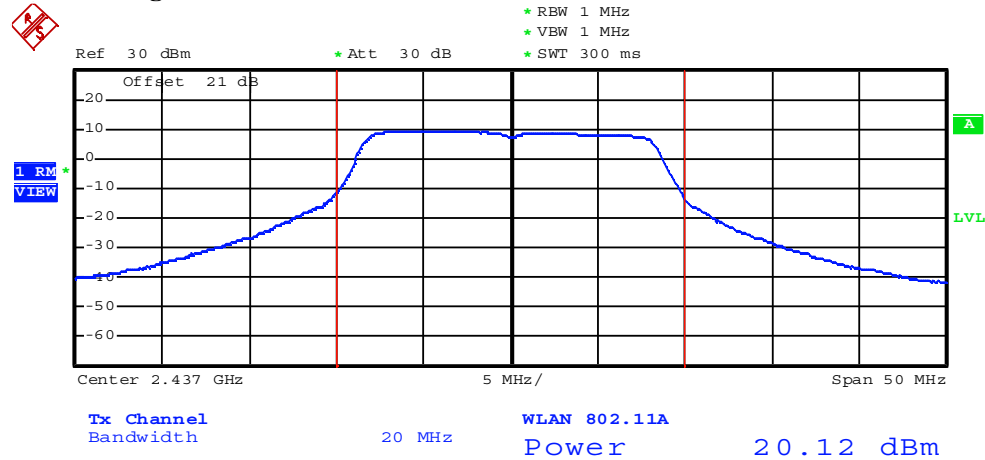


Mode: 802.11b/Channel Middle

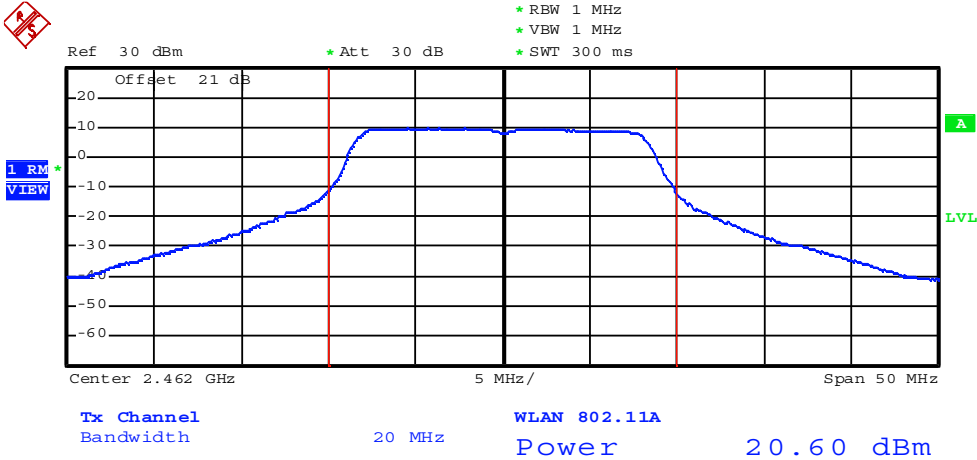
Mode: 802.11g/Channel Low



Mode: 802.11g/Channel Middle



Mode: 802.11g/Channel High



9 100 kHz BANDWIDTH OF BAND EDGES MEASUREMENT

9.1 Standard Applicable

According to 15.247(c), 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 in §15.209(a), whichever results in the lesser attenuation.

9.2 Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT as shown in figure 5 without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
3. Set both RBW of spectrum analyzer to 100kHz and VBW to 1 MHz with a convenient frequency span including 100kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

9.3 Measurement Equipment

Equipment	Manufacturer	Model No.	Next Cal. Due
Spectrum Analyzer	Rohde & Schwarz	FSP40	08/07/2007
Attenuator	Weinschel Engineering	1	N/A
Plotter	Hewlett-Packard	7440A	N/A

9.4 Measurement Data

Test Date : MAY 01, 2007 Temperature : 23 °C Humidity : 52 %

A 802.11b

- a) Lower Band Edge : All emissions in this 100kHz bandwidth are attenuated more than 20dB from the carrier.
- b) Upper Band Edge : All emissions in this 100kHz bandwidth are attenuated more than 20dB from the carrier.

B 802.11g

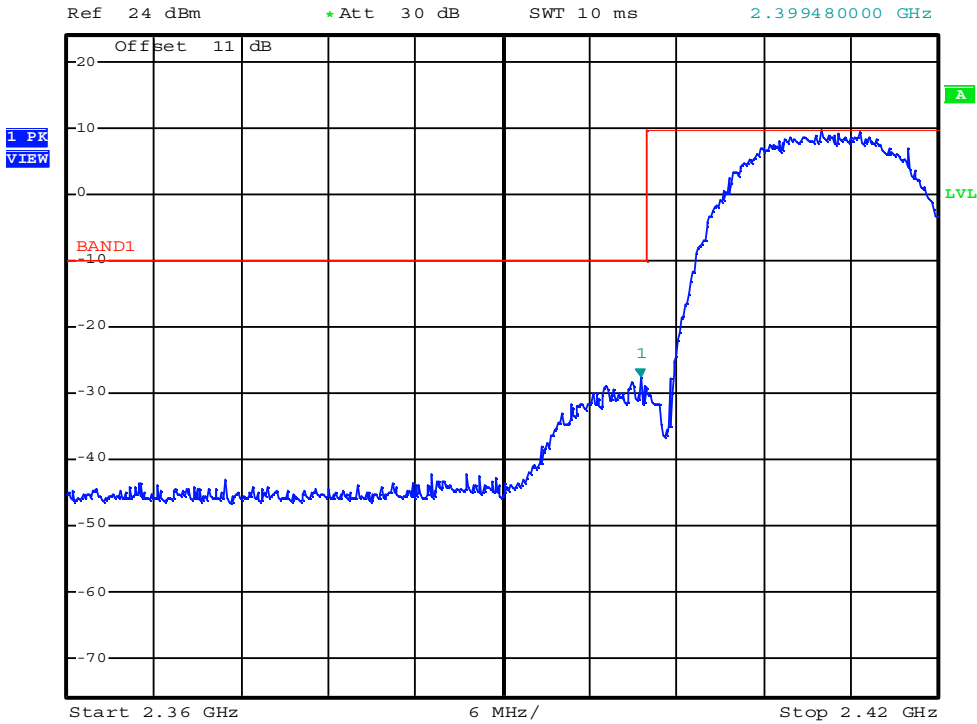
- a) Lower Band Edge : All emissions in this 100kHz bandwidth are attenuated more than 20dB from the carrier.
- b) Upper Band Edge : All emissions in this 100kHz bandwidth are attenuated more than 20dB from the carrier.

Note : The expanded uncertainty of the 100 kHz bandwidth of band edges tests is 2dB.

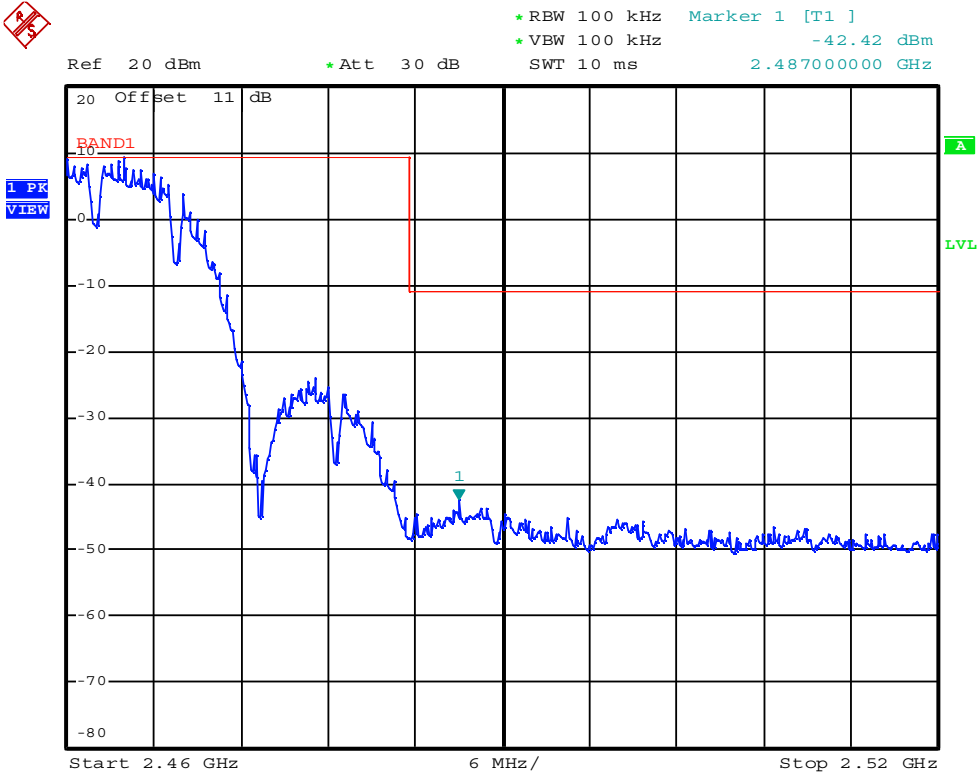
Mode: 802.11b/Channel Lowest



* RBW 100 kHz Marker 1 [T1]
* VBW 100 kHz -27.57 dBm
SWT 10 ms 2.399480000 GHz



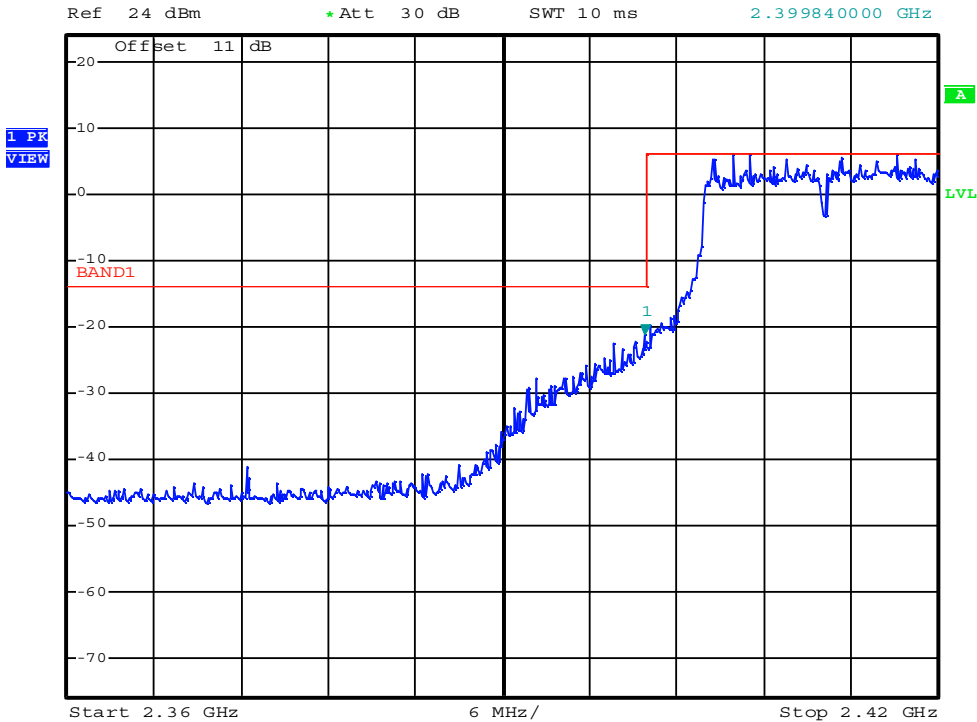
Mode: 802.11b/Highest



Mode: 802.11g/Channel Lowest



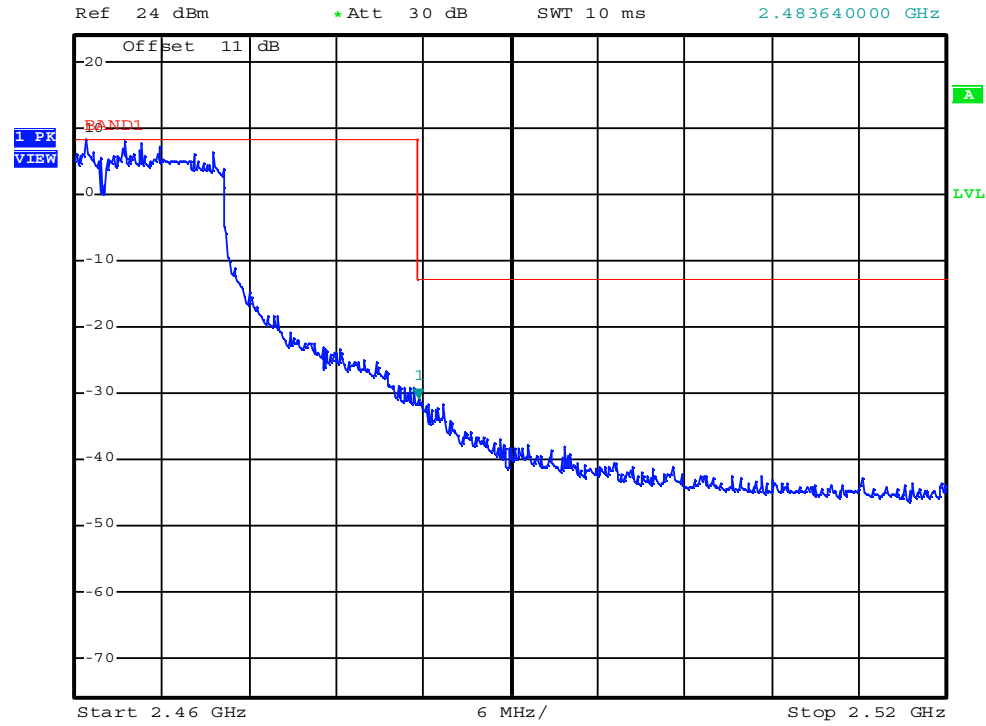
* RBW 100 kHz Marker 1 [T1]
* VBW 100 kHz -20.91 dBm
SWT 10 ms 2.399840000 GHz



Mode: 802.11g/Highest



* RBW 100 kHz Marker 1 [T1]
* VBW 100 kHz -30.74 dBm
SWT 10 ms 2.483640000 GHz



10 POWER DENSITY MEASUREMENT

10.1 Standard Applicable

According to 15.247(d), for direct sequence systems, the transmitted power density averaged over any 1 second interval shall not be greater than 8 dBm in any 3 kHz bandwidth within these bands.

10.2 Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT as shown in figure 4 without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set EUT to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
3. Adjust the center frequency of spectrum analyzer on highest level appearing on spectral display within a 300 kHz frequency span.
4. Set the spectrum analyzer on a 3 kHz resolution bandwidth and 300 kHz video bandwidth as well as max hold function.
5. Repeat above procedures until all measured frequencies were complete.

10.3 Measurement Equipment

Equipment	Manufacturer	Model No.	Next Cal. Due
Spectrum Analyzer	Rohde & Schwarz	FSP40	08/07/2007
Attenuator	Weinschel Engineering	1	N/A
Plotter	Hewlett-Packard	7440A	N/A

10.4 Measurement Data

Test Date : MAY 01, 2007 Temperature : 23 °C Humidity : 52 %

A 802.11b

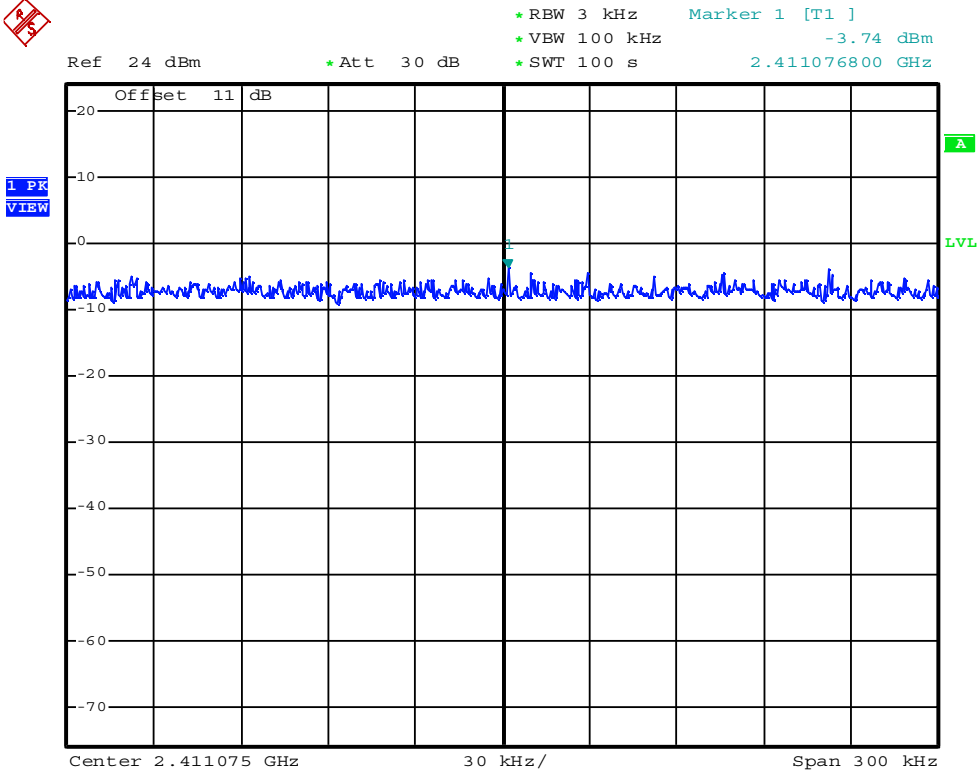
- | | | |
|-------------------|---|-----------|
| a) Channel Low | : Maximun Power Density of 3 kHz Bandwidth is | -3.74 dBm |
| b) Channel Middle | : Maximun Power Density of 3 kHz Bandwidth is | -3.98 dBm |
| c) Channel High | : Maximun Power Density of 3 kHz Bandwidth is | -4.37 dBm |

B 802.11g

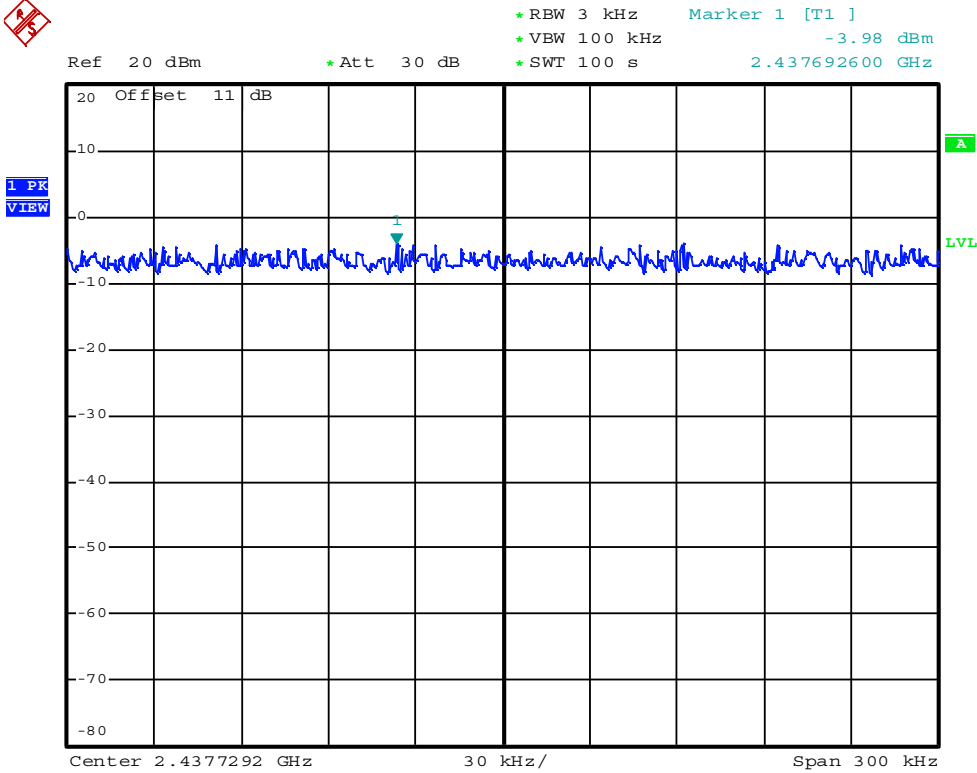
- | | | |
|-------------------|---|-----------|
| a) Channel Low | : Maximun Power Density of 3 kHz Bandwidth is | -5.9 dBm |
| b) Channel Middle | : Maximun Power Density of 3 kHz Bandwidth is | -4.92 dBm |
| c) Channel High | : Maximun Power Density of 3 kHz Bandwidth is | -2.91 dBm |

Note : *The expanded uncertainty of the power density tests is 2dB.*

Mode: 802.11b/Channel Low



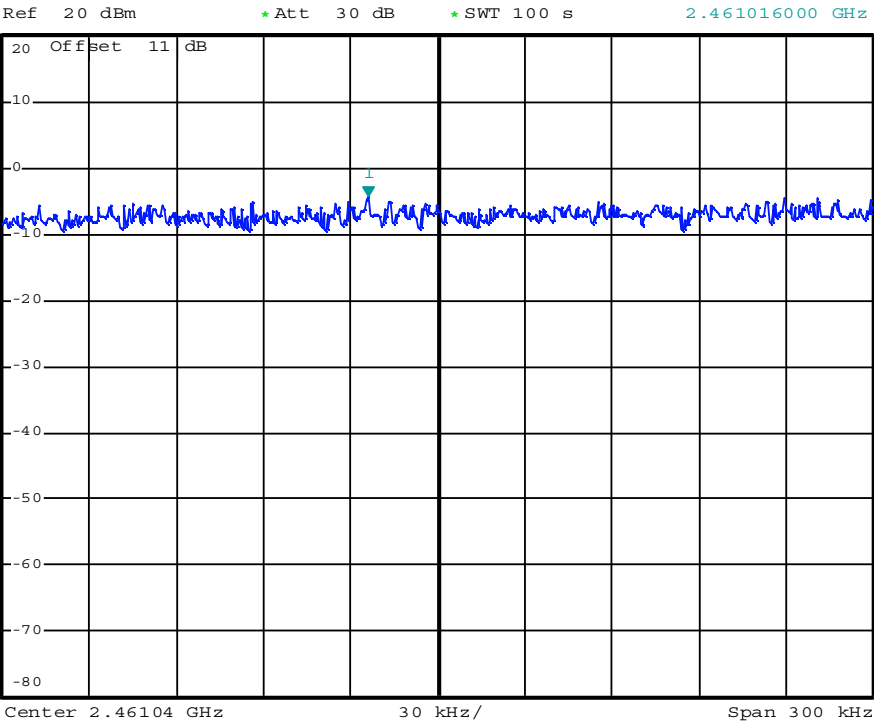
Mode: 802.11b/Channel Middle



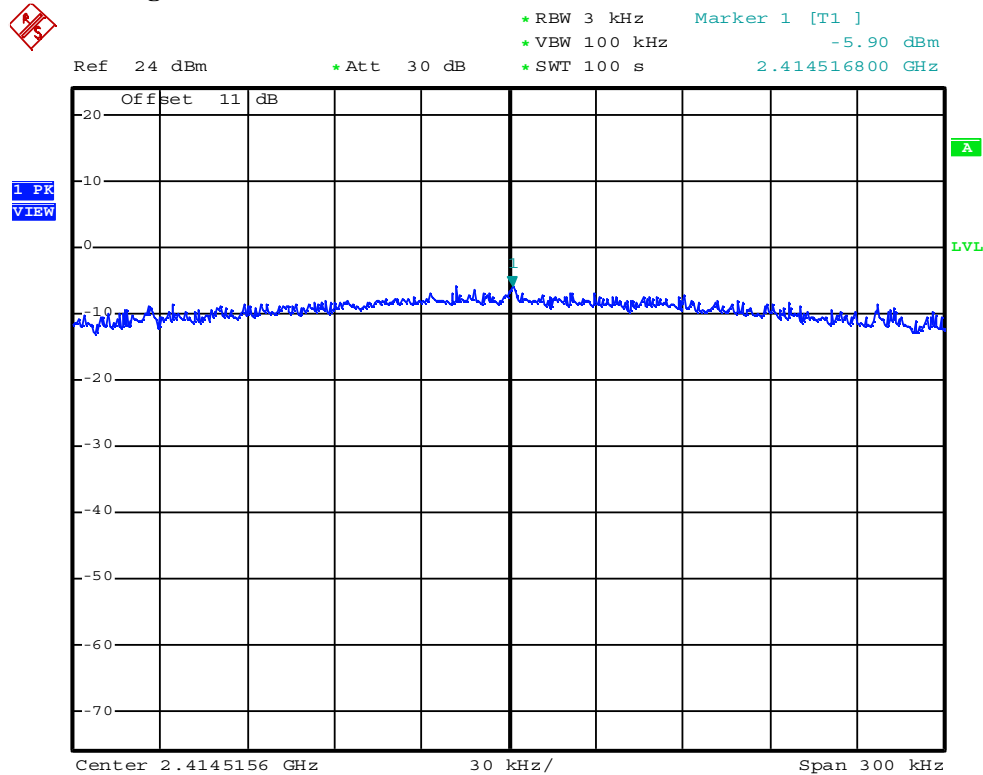
Mode: 802.11b/Channel High



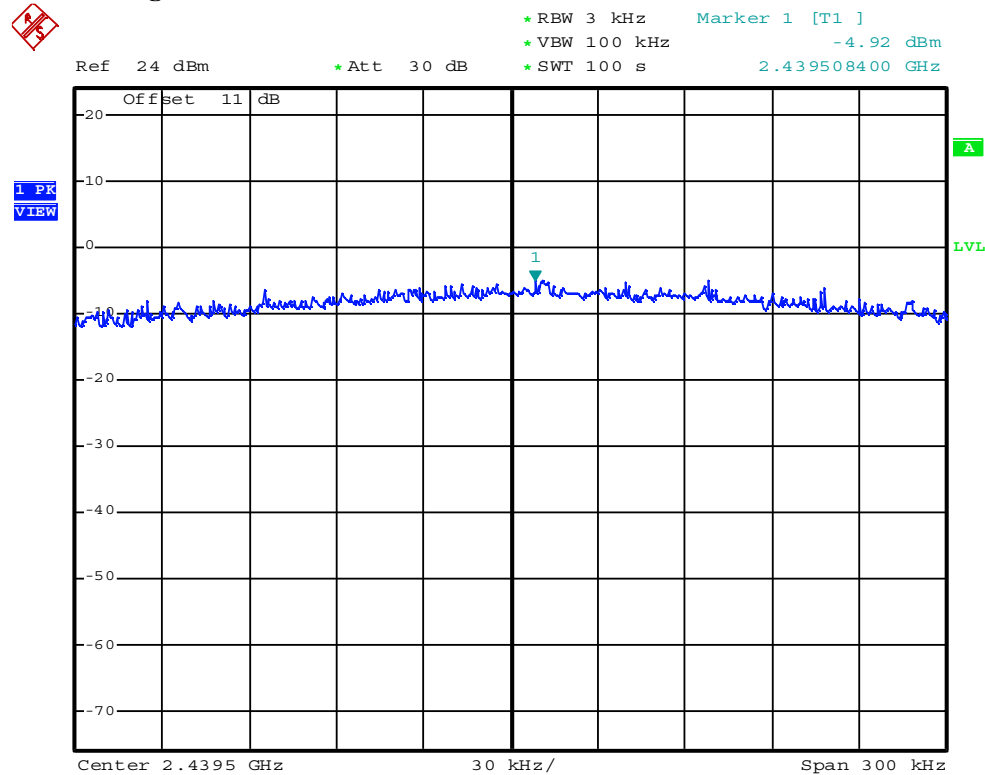
* RBW 3 kHz Marker 1 [T1]
* VBW 100 kHz -4.37 dBm
* SWT 100 s 2.461016000 GHz



Mode: 802.11g/Channel Low



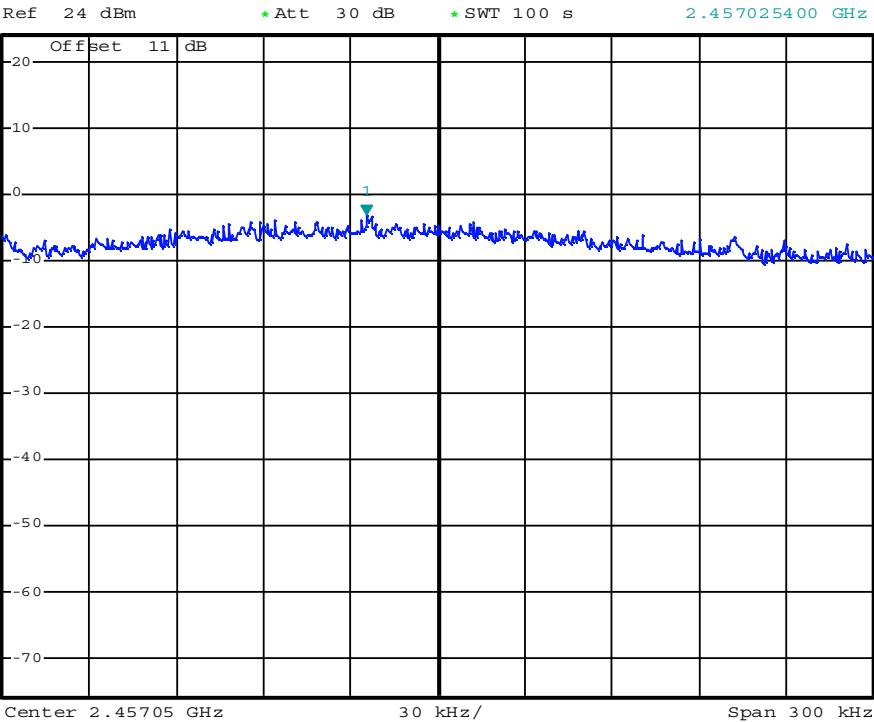
Mode: 802.11g/Channel Middle



Mode: 802.11g/Channel High



* RBW 3 kHz Marker 1 [T1]
* VBW 100 kHz -2.91 dBm
* SWT 100 s 2.457025400 GHz



11. OUT-OF-BAND CONDUCTED EMISSION MEASUREMENT

11.1 Standard Applicable

According to 15.247(c), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required.

11.2 Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT as shown in figure 4 without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
3. Use the following spectrum analyzer settings:
 Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
 RBW = 100 kHz
 VBW \geq RBW
 Sweep = auto
 Detector function = peak
 Trace = max hold.
4. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded. Plot the result on the screen of spectrum analyzer.
5. Repeat above procedures until all measured frequencies were complete.

11.3 Measurement Equipment

Equipment	Manufacturer	Model No.	Next Cal. Due
RF Test Receiver	Rohde & Schwarz	ESBI	07/22/2008
Attenuator	Weinschel Engineering	AS3667	N/A
Plotter	Hewlett-Packard	7440A	N/A

11.4 Measurement Data

Test Date : MAY 01, 2007 Temperature : 23 °C Humidity : 52 %

A 802.11b

Mode: Channel Low

- a) 1 GHz to 3 GHz frequency band: All emissions are attenuated more than 20dB from the carrier.
- b) 3 GHz to 25 GHz frequency band: All emissions are attenuated more than 20dB from the carrier.

Mode: Channel Middle

- a) 1 GHz to 3 GHz frequency band: All emissions are attenuated more than 20dB from the carrier.
- b) 3 GHz to 25 GHz frequency band: All emissions are attenuated more than 20dB from the carrier.

Mode: Channel High

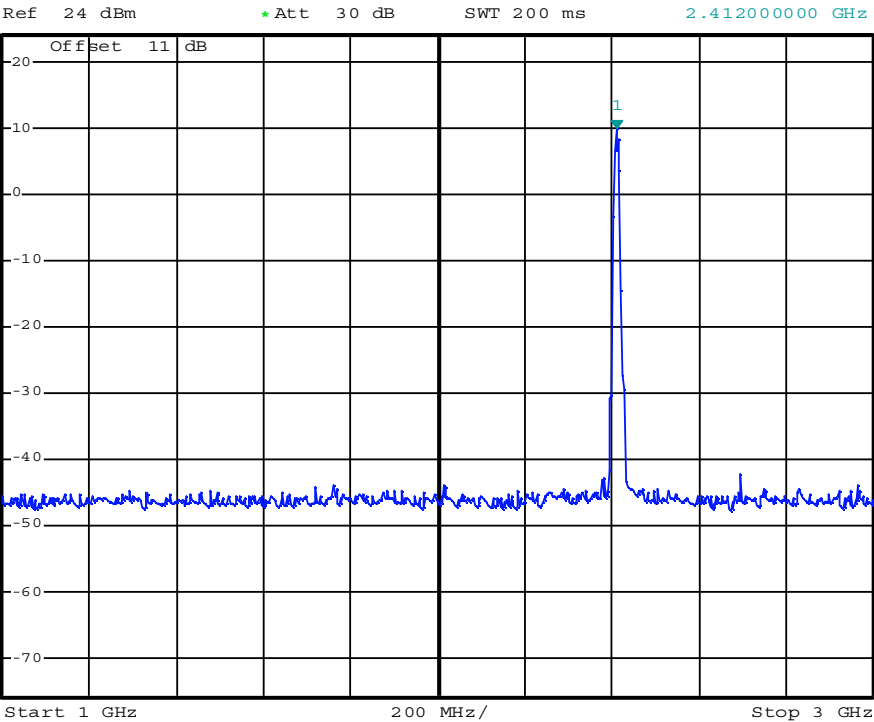
- a) 1 GHz to 3 GHz frequency band: All emissions are attenuated more than 20dB from the carrier.
- b) 3 GHz to 25 GHz frequency band: All emissions are attenuated more than 20dB from the carrier.

Note : *The expanded uncertainty of the out-of-band conducted emission tests is 2dB.*

Mode: 802.11b/Channel Low



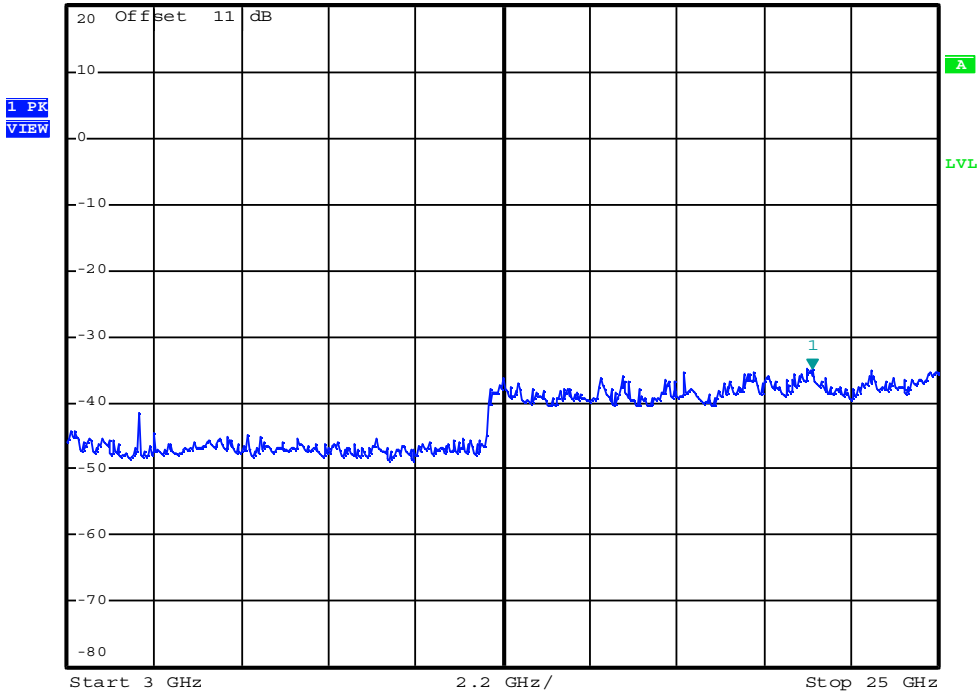
* RBW 100 kHz Marker 1 [T1]
* VBW 100 kHz 9.98 dBm
SWT 200 ms 2.412000000 GHz



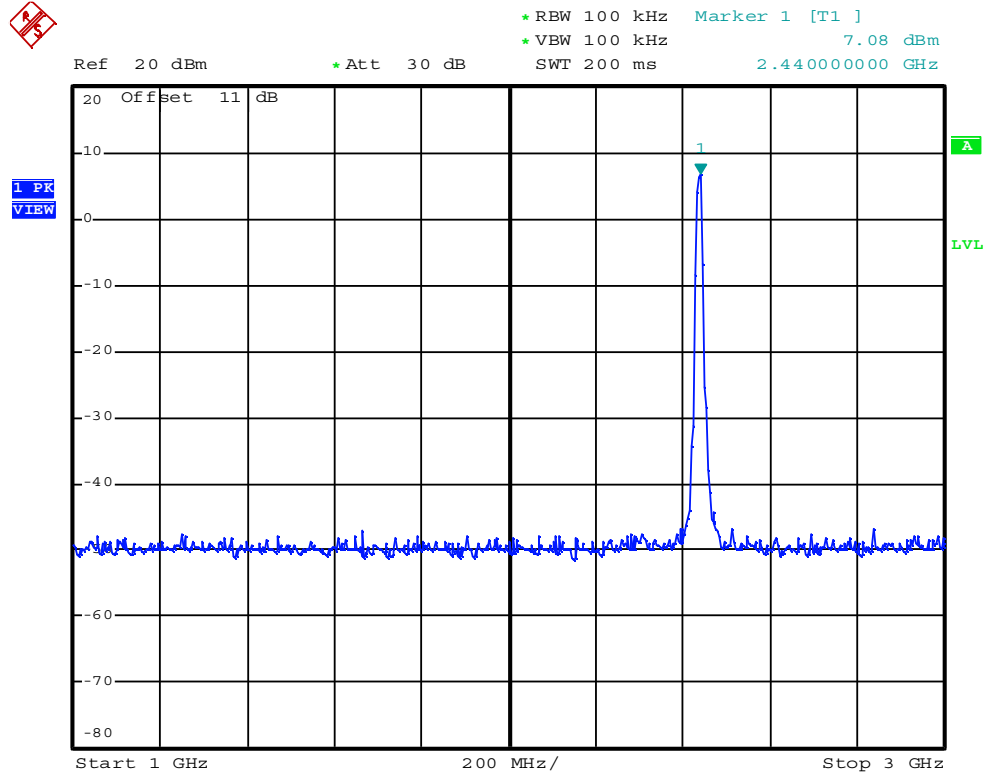
Mode: 802.11b/Channel Middle



* RBW 100 kHz Marker 1 [T1]
* VBW 100 kHz -34.60 dBm
SWT 2.2 s 21.83200000 GHz



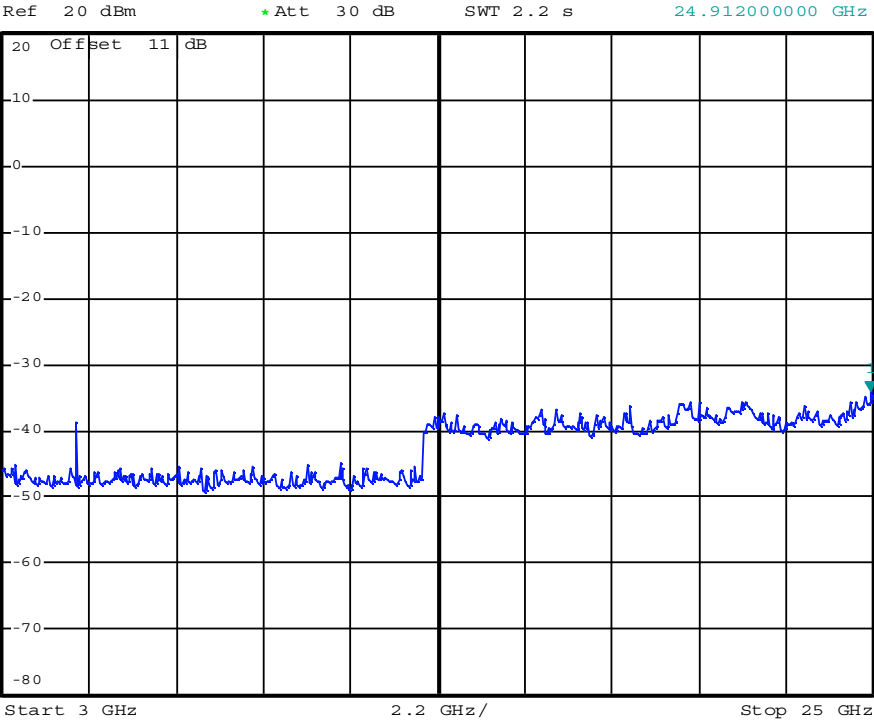
Mode: 802.11b/Channel High



Mode: 802.11g/Channel Low



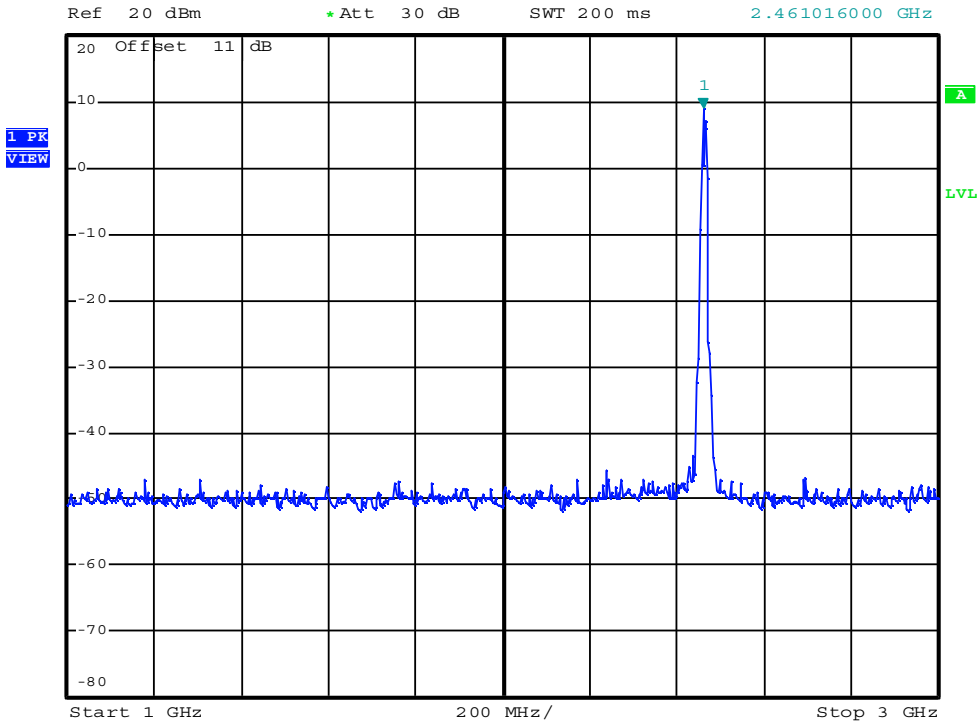
* RBW 100 kHz Marker 1 [T1]
* VBW 100 kHz -33.90 dBm
SWT 2.2 s 24.91200000 GHz



Mode: 802.11g/Channel Middle



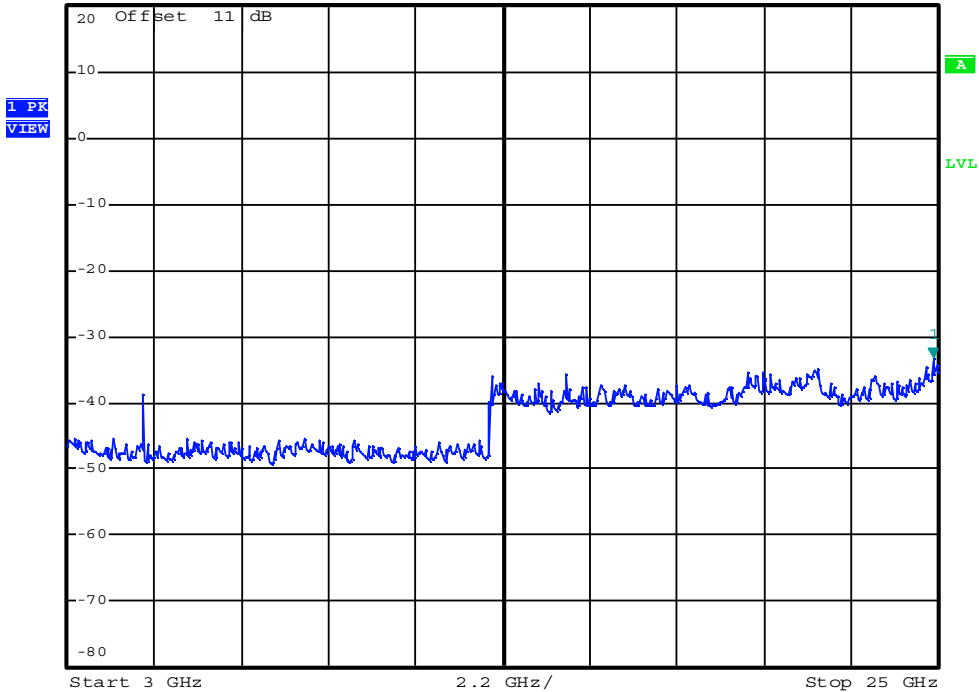
* RBW 100 kHz Marker 1 [T1]
* VBW 100 kHz 8.99 dBm
SWT 200 ms 2.461016000 GHz



Mode: 802.11g/Channel High



* RBW 100 kHz Marker 1 [T1]
* VBW 100 kHz -33.27 dBm
SWT 2.2 s 24.86800000 GHz



Test Date : MAY 01, 2007 Temperature : 23 °C Humidity : 52 %

B. 802.11g**Mode: Channel Low**

- a) 1 GHz to 3 GHz frequency band: All emissions are attenuated more than 20dB from the carrier.
- b) 3 GHz to 25 GHz frequency band: All emissions are attenuated more than 20dB from the carrier.

Mode: Channel Middle

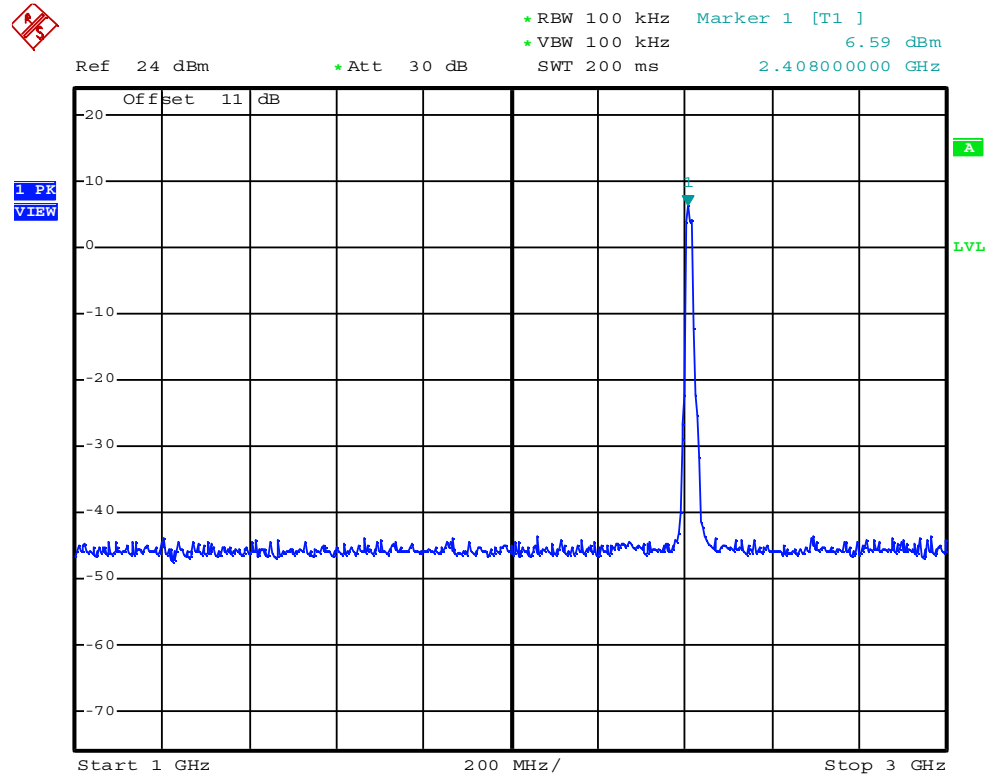
- a) 1 GHz to 3 GHz frequency band: All emissions are attenuated more than 20dB from the carrier.
- b) 3 GHz to 25 GHz frequency band: All emissions are attenuated more than 20dB from the carrier.

Mode: Channel High

- a) 1 GHz to 3 GHz frequency band: All emissions are attenuated more than 20dB from the carrier.
- b) 3 GHz to 25 GHz frequency band: All emissions are attenuated more than 20dB from the carrier.

Note : The expanded uncertainty of the out-of-band conducted emission tests is 2dB.

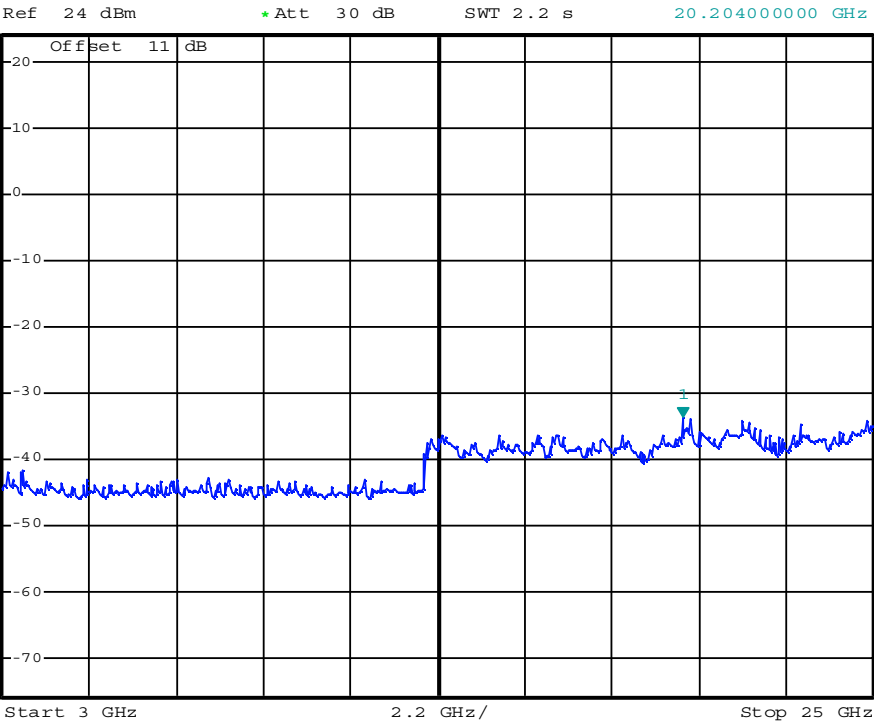
Mode: 802.11b/Channel Low



Mode: 802.11b/Channel Middle



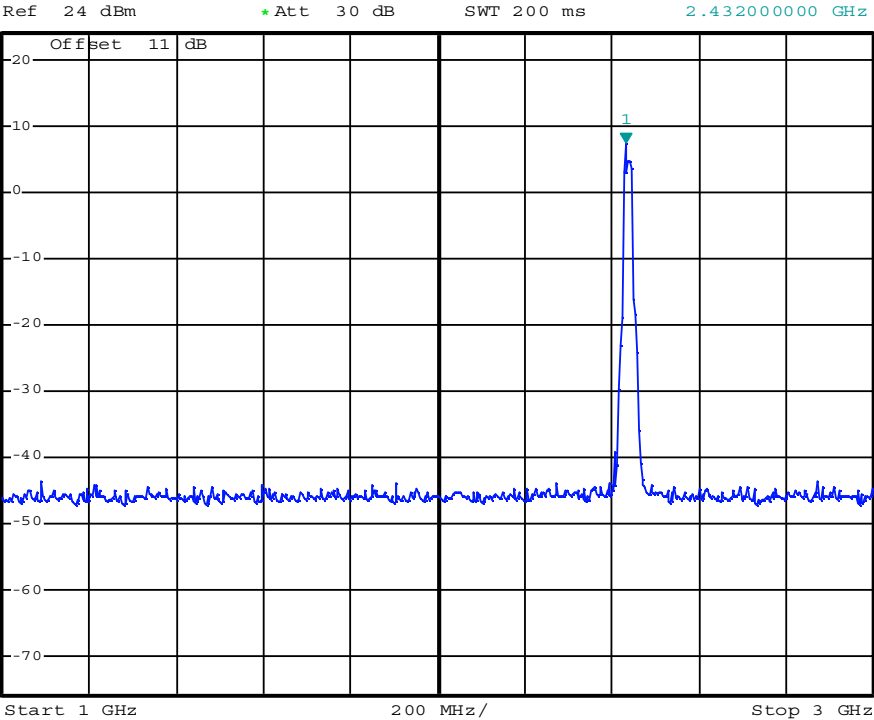
* RBW 100 kHz Marker 1 [T1]
* VBW 100 kHz -33.52 dBm
SWT 2.2 s 20.204000000 GHz



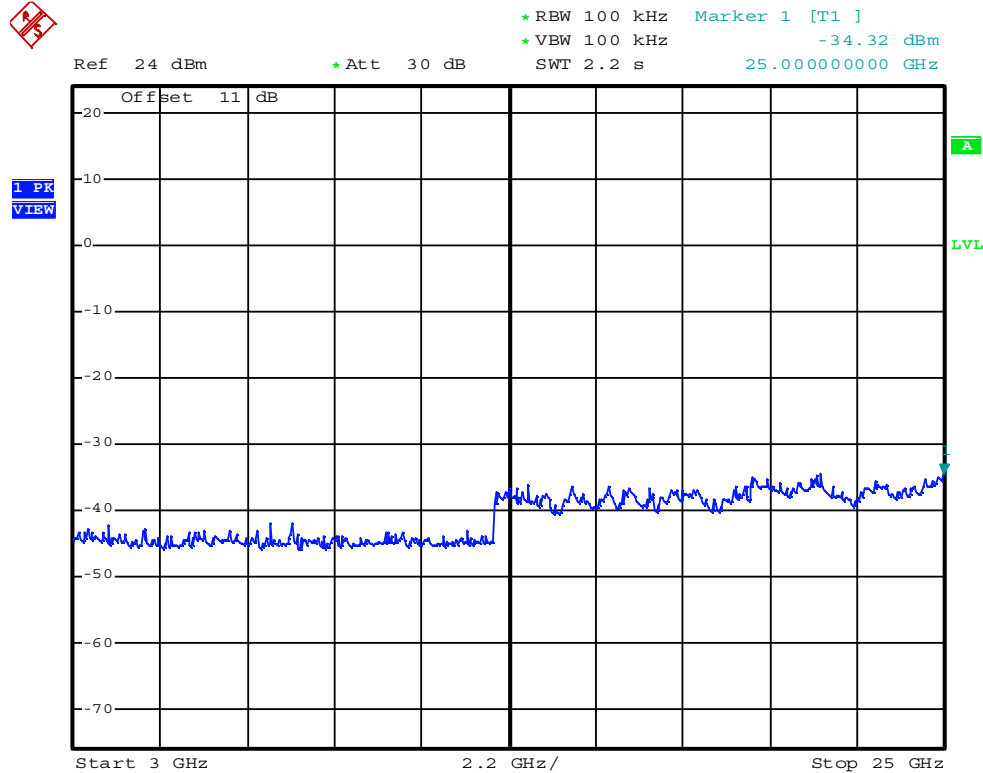
Mode: 802.11b/Channel High



* RBW 100 kHz Marker 1 [T1]
* VBW 100 kHz 7.72 dBm
SWT 200 ms 2.432000000 GHz



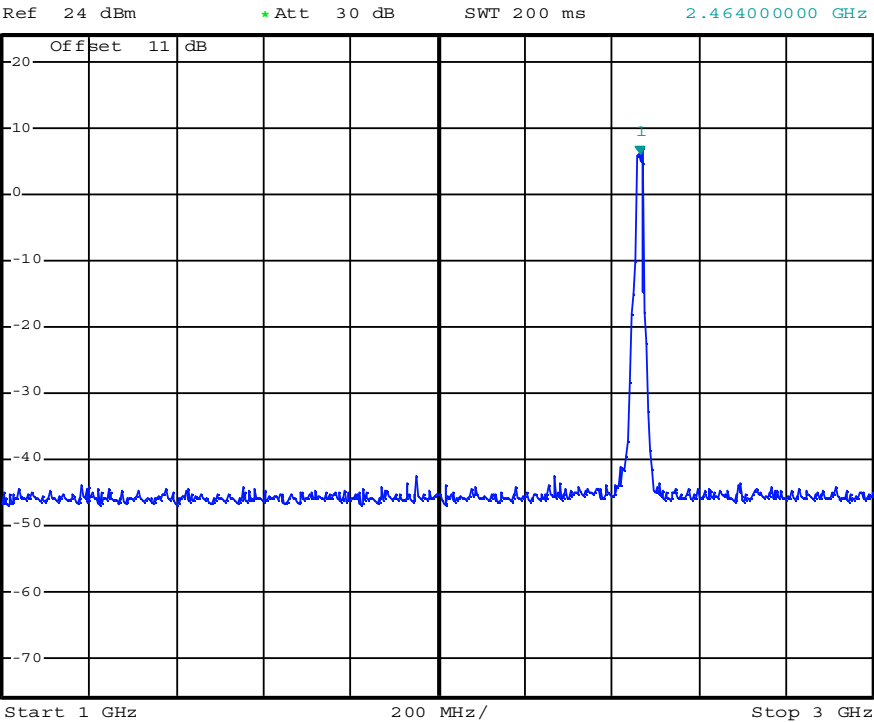
Mode: 802.11g/Channel Low



Mode: 802.11g/Channel Middle



* RBW 100 kHz Marker 1 [T1]
* VBW 100 kHz 6.12 dBm
SWT 200 ms 2.464000000 GHz



Mode: 802.11g/Channel High

