



Test Report

Product Name	Wireless LAN Card
Model No.	MS-6877
FCC ID	I4L-MS6877

Applicant	MICRO-STAR INTL Co., LTD.
Address	No. 69, Li-De St., Jung-He City, Taipei Hsien, Taiwan, R.O.C.

Date of Receipt	Mar. 16, 2006
Issued Date	Apr. 10, 2006
Report No.	063L107-RF-US-P05V01

The test results relate only to the samples tested.

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

Test Report Certification

Issued Date: Apr. 10, 2006

Report No.: 063L107-RF-US-P05V01



Accredited by NIST (NVLAP)

NVLAP Lab Code: 200533-0

Product Name	Wireless LAN Card
Applicant	MICRO-STAR INTL Co., LTD.
Address	No. 69, Li-De St., Jung-He City, Taipei Hsien, Taiwan, R.O.C.
Manufacturer	MICRO-STAR INTL Co., LTD.
Model No.	MS-6877
Rated Voltage	AC 120V/60Hz
Working Voltage	DC 3.3V
Trade Name	MSI
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2005 CISPR 22 Edition 4.1: 2004 ANSI C63.4: 2003
Test Result	Complied



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Documented By : Rita Huang
(Rita Huang)



Tested By : Tim Sung
(Tim Sung)

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Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Wireless LAN Card
Trade Name	MSI
Model No.	MS-6877
FCC ID	I4L-MS6877
Frequency Range	2412 – 2462MHz
Channel Number	11
Data Speed	IEEE 802.11b – 1, 2, 5.5, 11Mbps IEEE 802.11g – 6, 9, 12, 18, 24, 36 48, 54Mbps
Type of Modulation	DSSS/ OFDM
Antenna Type	Connector
Antenna Gain	Refer to the table “Antenna List”
Channel Control	Auto

Antenna List

No.	Manufacturer	Part No.	Peak Gain
1	Omni-Directional	SAA04-050350	4.5dBi for 2.4 GHz
2	MSI	S79-1800180-SB1	2.31dBi for 2.4 GHz
3	Uniwill	P72	1.29dBi for 2.4 GHz
4	Uniwill	S50 925(B) FVC	-1.05dBi for 2.4 GHz
5	Uniwill	S50 645(G) FVC	-1.05dBi for 2.4 GHz
6	Uniwill	S50 YAGEO	-1.05dBi for 2.4 GHz
7	Twinhead	TW12YWIP102A	0.93dBi for 2.4 GHz

Frequency of Each Channel:

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

Note:

1. The EUT is a Wireless LAN Card with a 2.4GHz transceiver.
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
3. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report. (802.11b is 11Mbps and 802.11g is 54Mbps)
4. These tests are conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.

1.2. Operational Description

The EUT is a Wireless LAN Card with 11 channels. This device provided four kinds of transmitting speed 1, 2, 5.5 and 11Mbps. The device of RF carrier is DBPSK, DQPSK and CCK (IEEE 802.11b) or eight kinds of transmitting speed 6, 9, 12, 18, 24, 36, 48 and 54Mbps. The device of RF carrier is OFDM (IEEE 802.11g).

The device adapts direct sequence spread spectrum modulation. The antenna provides diversity function to improve the receiving function.

This Wireless LAN Card, compliant with IEEE 802.11b and IEEE 802.11g, is a high-efficiency Wireless LAN adapter. It allows your computer to connect to a wireless network and to share resources, such as files or printers without being bound to the network wires. Operation in 2.4GHz Direct Sequence Spread Spectrum (DSSS) radio transmission, the Wireless LAN Card Wired Equivalent Protection (WEP) algorithm is used. In addition, its standard compliance ensures that it can communicate with any IEEE 802.11b and IEEE 802.11g network.

Test Mode	Mode 1: Transmitter 802.11b(Antenna 1)
	Mode 2: Transmitter 802.11g(Antenna 1)
	Mode 3: Transmitter 802.11b(Antenna 2)
	Mode 4: Transmitter 802.11g(Antenna 2)

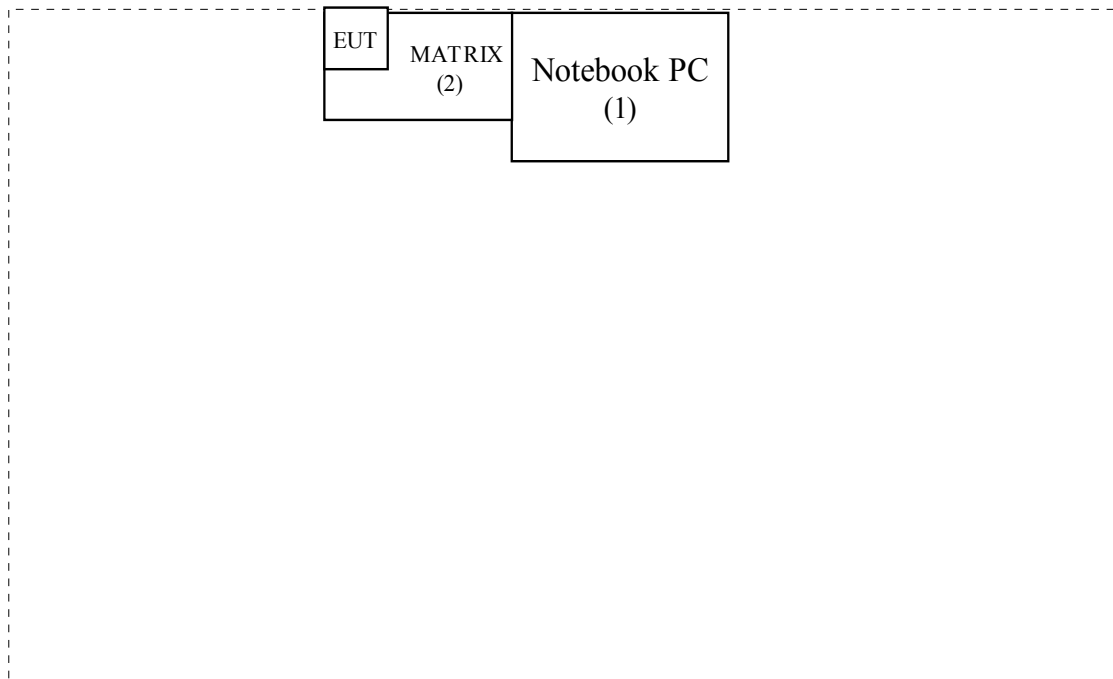
1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

	Product	Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1.	Notebook PC	DELL	PPT	N/A	DoC	Non-Shielded, 0.8m
2.	MATRIX	MSI	N/A	N/A	N/A	N/A

Signal Cable Type		Signal cable Description
A.	N/A	N/A

1.4. Configuration of Test System



1.5. EUT Exercise Software

- (1) Setup the EUT as shown in section 1.4
- (2) Execute the CRTU program (the continuous transmission program) on the EUT
- (3) Setup the test mode, the test channel, and the data rate.
- (4) Press OK to start the transmission.
- (5) Verify that the EUT works correctly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

Site Description: June 22, 2001 File on
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046
Reference 31040/SIT1300F2



July 03, 2001 Accreditation on NVLAP
NVLAP Lab Code: 200533-0

Site Name: Quietek Corporation



Site Address: No. 5-22, Ruei-Shu Valley, Ruei-Ping Tsuen,
Lin-Kou Shiang, Taipei,
Taiwan, R.O.C.
TEL: 886-2-8601-3788 / FAX : 886-2-8601-3789
E-Mail : service@quietek.com



2. Conducted Emission

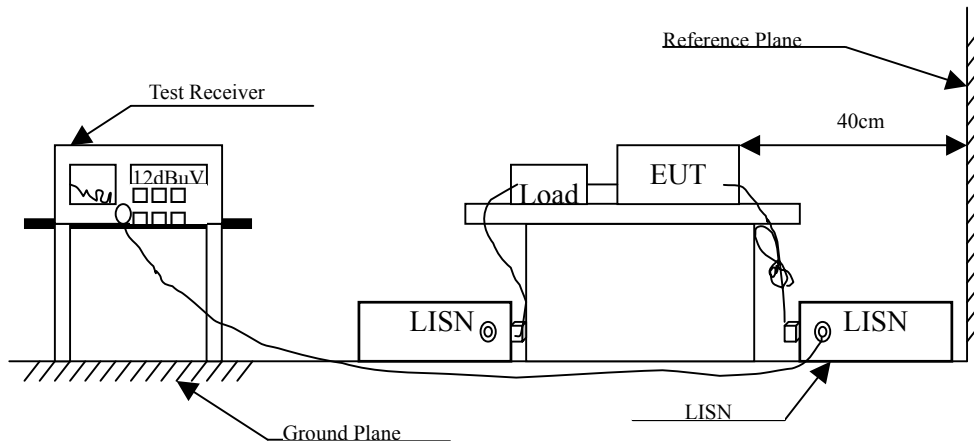
2.1. Test Equipment

The following test equipment are used during the conducted emission test:

Item	Instrument	Manufacturer	Type No./Serial No	Last Cal.	Remark
1	Test Receiver	R & S	ESCS 30/825442/17	May, 2005	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 2005	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 2005	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	May, 2005	
5	No.1 Shielded Room			N/A	

Note: All instruments are calibrated every one year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit		
Frequency MHz	Limits	
	uV	dBuV
0.15 - 0.50	66-56 _(註)	56-46 _(註)
0.50-5.0	56	46
5.0 - 30	60	50

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Uncertainty

The measurement uncertainty is defined as ± 2.02 dB

2.6. Test Result of Conducted Emission

Product : Wireless LAN Card
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2437MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV	Margin dB	Limit dBuV
LINE 1					
Quasi-Peak					
0.183	0.200	35.670	35.870	-29.187	65.057
0.379	0.200	18.570	18.770	-40.687	59.457
0.744	0.210	15.390	15.600	-40.400	56.000
2.248	0.220	15.830	16.050	-39.950	56.000
3.784	0.250	11.810	12.060	-43.940	56.000
10.232	0.330	16.230	16.560	-43.440	60.000
Average					
0.183	0.200	22.450	22.650	-32.407	55.057
0.379	0.200	7.160	7.360	-42.097	49.457
0.744	0.210	4.390	4.600	-41.400	46.000
2.248	0.220	6.390	6.610	-39.390	46.000
3.784	0.250	2.920	3.170	-42.830	46.000
10.232	0.330	10.550	10.880	-39.120	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Wireless LAN Card
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2437MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV	dB	dBuV
LINE 2					
Quasi-Peak					
0.186	0.200	35.410	35.610	-29.361	64.971
0.266	0.200	22.290	22.490	-40.196	62.686
0.575	0.200	15.090	15.290	-40.710	56.000
2.330	0.220	14.090	14.310	-41.690	56.000
3.803	0.250	12.550	12.800	-43.200	56.000
10.834	0.341	15.850	16.191	-43.809	60.000
Average					
0.186	0.200	21.890	22.090	-32.881	54.971
0.266	0.200	12.300	12.500	-40.186	52.686
0.575	0.200	2.340	2.540	-43.460	46.000
2.330	0.220	5.480	5.700	-40.300	46.000
3.803	0.250	4.190	4.440	-41.560	46.000
10.834	0.341	10.280	10.621	-39.379	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Wireless LAN Card
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1) (2437MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV	dB	dBuV
LINE 1					
Quasi-Peak					
0.194	0.200	37.780	37.980	-26.763	64.743
0.279	0.200	24.940	25.140	-37.174	62.314
0.478	0.200	13.040	13.240	-43.389	56.629
0.948	0.210	12.380	12.590	-43.410	56.000
1.642	0.220	12.820	13.040	-42.960	56.000
9.384	0.320	15.720	16.040	-43.960	60.000
Average					
0.194	0.200	23.410	23.610	-31.133	54.743
0.279	0.200	13.150	13.350	-38.964	52.314
0.478	0.200	3.370	3.570	-43.059	46.629
0.948	0.210	3.370	3.580	-42.420	46.000
1.642	0.220	3.660	3.880	-42.120	46.000
9.384	0.320	9.910	10.230	-39.770	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Wireless LAN Card
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1) (2437MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV	dB	dBuV
LINE 2					
Quasi-Peak					
0.184	0.200	36.980	37.180	-27.849	65.029
0.280	0.200	24.080	24.280	-38.006	62.286
0.468	0.200	13.300	13.500	-43.414	56.914
2.314	0.220	14.940	15.160	-40.840	56.000
3.871	0.250	11.020	11.270	-44.730	56.000
9.353	0.320	14.560	14.880	-45.120	60.000
Average					
0.184	0.200	21.720	21.920	-33.109	55.029
0.280	0.200	13.380	13.580	-38.706	52.286
0.468	0.200	3.780	3.980	-42.934	46.914
2.314	0.220	6.810	7.030	-38.970	46.000
3.871	0.250	3.430	3.680	-42.320	46.000
9.353	0.320	8.630	8.950	-41.050	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " " means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Wireless LAN Card
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 3: Transmitter 802.11b(Antenna 2) (2437MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV	dB	dBuV
LINE 1					
Quasi-Peak					
0.186	0.200	36.600	36.800	-28.171	64.971
0.283	0.200	24.160	24.360	-37.840	62.200
0.561	0.200	17.180	17.380	-38.620	56.000
1.780	0.220	12.840	13.060	-42.940	56.000
4.021	0.250	11.420	11.670	-44.330	56.000
9.257	0.320	16.060	16.380	-43.620	60.000
Average					
0.186	0.200	22.970	23.170	-31.801	54.971
0.283	0.200	15.290	15.490	-36.710	52.200
0.561	0.200	7.360	7.560	-38.440	46.000
1.780	0.220	3.840	4.060	-41.940	46.000
4.021	0.250	3.550	3.800	-42.200	46.000
9.257	0.320	10.300	10.620	-39.380	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Wireless LAN Card
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 3: Transmitter 802.11b(Antenna 2) (2437MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV	dB	dBuV
LINE 2					
Quasi-Peak					
0.188	0.200	35.980	36.180	-28.734	64.914
0.284	0.200	23.700	23.900	-38.271	62.171
0.574	0.200	16.040	16.240	-39.760	56.000
1.922	0.220	15.920	16.140	-39.860	56.000
3.569	0.240	11.420	11.660	-44.340	56.000
8.802	0.320	14.620	14.940	-45.060	60.000
Average					
0.188	0.200	22.970	23.170	-31.744	54.914
0.284	0.200	15.040	15.240	-36.931	52.171
0.574	0.200	5.820	6.020	-39.980	46.000
1.922	0.220	6.970	7.190	-38.810	46.000
3.569	0.240	3.610	3.850	-42.150	46.000
8.802	0.320	8.830	9.150	-40.850	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Wireless LAN Card
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 4: Transmitter 802.11g(Antenna 2) (2437MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV	dB	dBuV
LINE 1					
Quasi-Peak					
0.190	0.200	35.740	35.940	-28.917	64.857
0.288	0.200	23.520	23.720	-38.337	62.057
0.543	0.200	15.980	16.180	-39.820	56.000
2.111	0.220	15.500	15.720	-40.280	56.000
4.162	0.250	11.560	11.810	-44.190	56.000
10.752	0.340	15.860	16.200	-43.800	60.000
Average					
0.190	0.200	23.170	23.370	-31.487	54.857
0.288	0.200	14.250	14.450	-37.607	52.057
0.543	0.200	6.000	6.200	-39.800	46.000
2.111	0.220	6.480	6.700	-39.300	46.000
4.162	0.250	4.010	4.260	-41.740	46.000
10.752	0.340	10.300	10.640	-39.360	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Wireless LAN Card
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Mode : Mode 4: Transmitter 802.11g(Antenna 2) (2437MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV	dB	dBuV
LINE 2					
Quasi-Peak					
0.173	0.200	36.120	36.320	-29.023	65.343
0.281	0.200	24.100	24.300	-37.957	62.257
0.564	0.200	15.660	15.860	-40.140	56.000
2.084	0.220	14.840	15.060	-40.940	56.000
4.505	0.260	11.400	11.660	-44.340	56.000
9.068	0.320	15.320	15.640	-44.360	60.000
Average					
0.173	0.200	19.700	19.900	-35.443	55.343
0.281	0.200	15.350	15.550	-36.707	52.257
0.564	0.200	5.820	6.020	-39.980	46.000
2.084	0.220	6.130	6.350	-39.650	46.000
4.505	0.260	3.840	4.100	-41.900	46.000
9.068	0.320	9.510	9.830	-40.170	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. "■" means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

3. Peak Power Output

3.1. Test Equipment

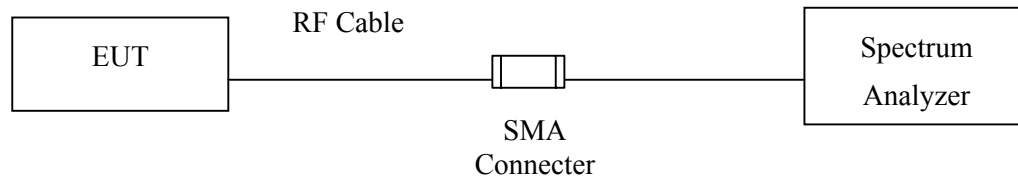
The following test equipments are used during the radiated emission tests:

Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2005

Note: 1. All instruments are calibrated every one year.
2. The test instruments marked by “X” are used to measure the final test results.

3.2. Test Setup

Conduction Power Measurement



3.3. Limits

The maximum peak power shall be less 1 Watt.

3.4. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

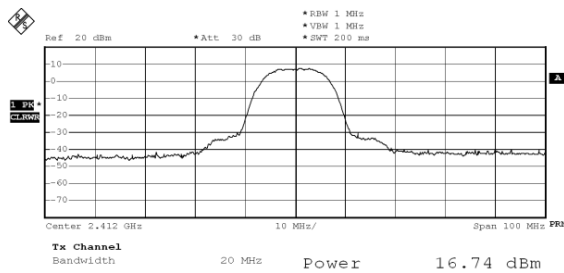
3.5. Test Result of Peak Power Output

Product : Wireless LAN Card
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b(Antenna 1)

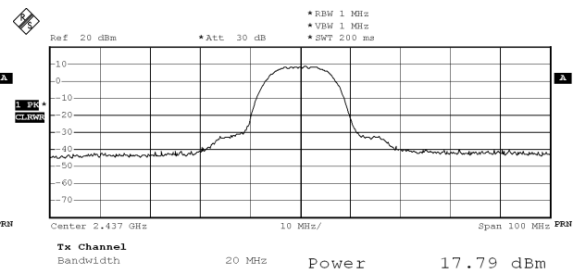
Data Speed: 11Mbps

Channel No.	Frequency (MHz)	Measurement	Required Limit	Result
1	2412.00	16.74dBm	1 Watt= 30 dBm	Pass
6	2437.00	17.79dBm	1 Watt= 30 dBm	Pass
11	2462.00	18.20dBm	1 Watt= 30 dBm	Pass

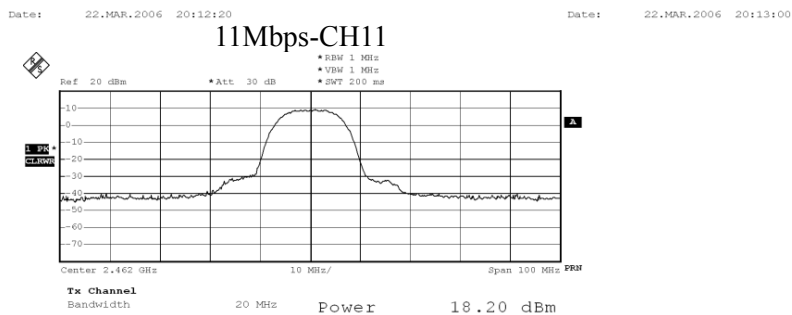
11Mbps-CH01



11Mbps-CH 06



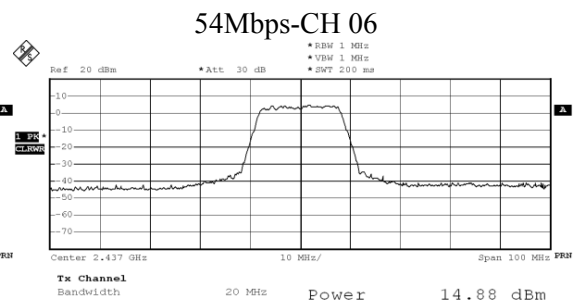
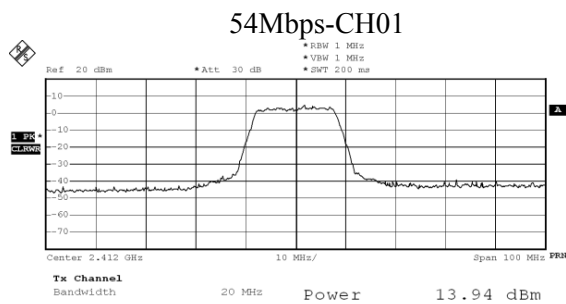
11Mbps-CH11



Product : Wireless LAN Card
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1)

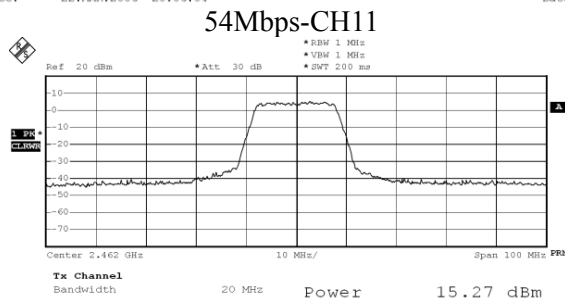
Data Speed: 54Mbps

Channel No.	Frequency (MHz)	Measurement	Required Limit	Result
1	2412.00	13.94dBm	1 Watt= 30 dBm	Pass
6	2437.00	14.88dBm	1 Watt= 30 dBm	Pass
11	2462.00	15.27dBm	1 Watt= 30 dBm	Pass



Date: 22.MAR.2006 20:06:04

Date: 22.MAR.2006 20:06:42



Date: 22.MAR.2006 20:07:23

4. Radiated Emission

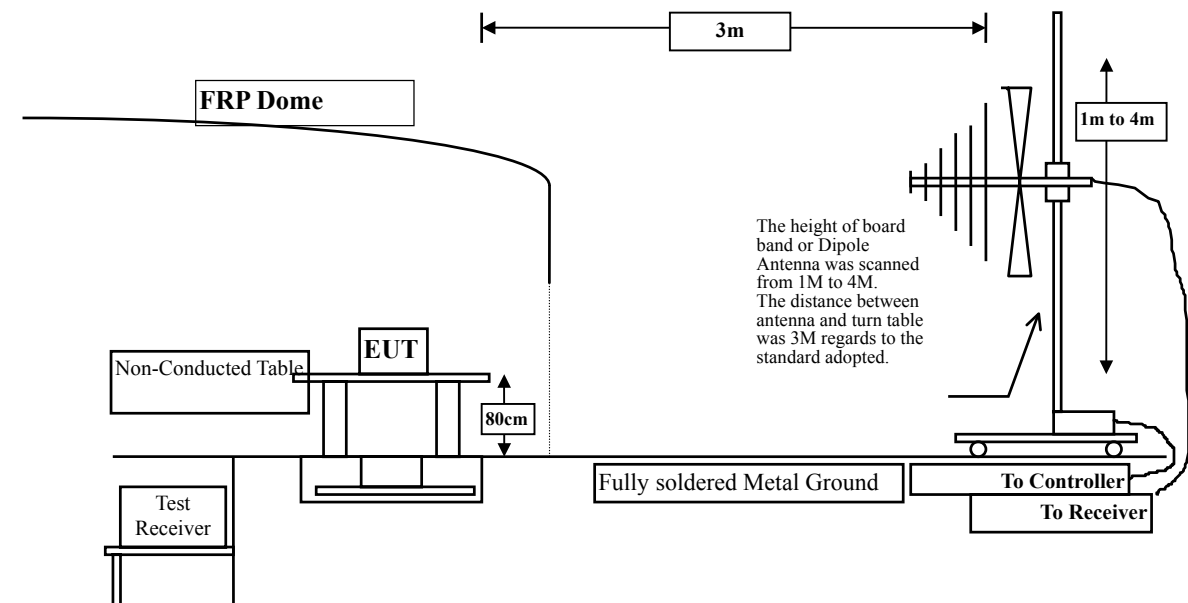
4.1. Test Equipment

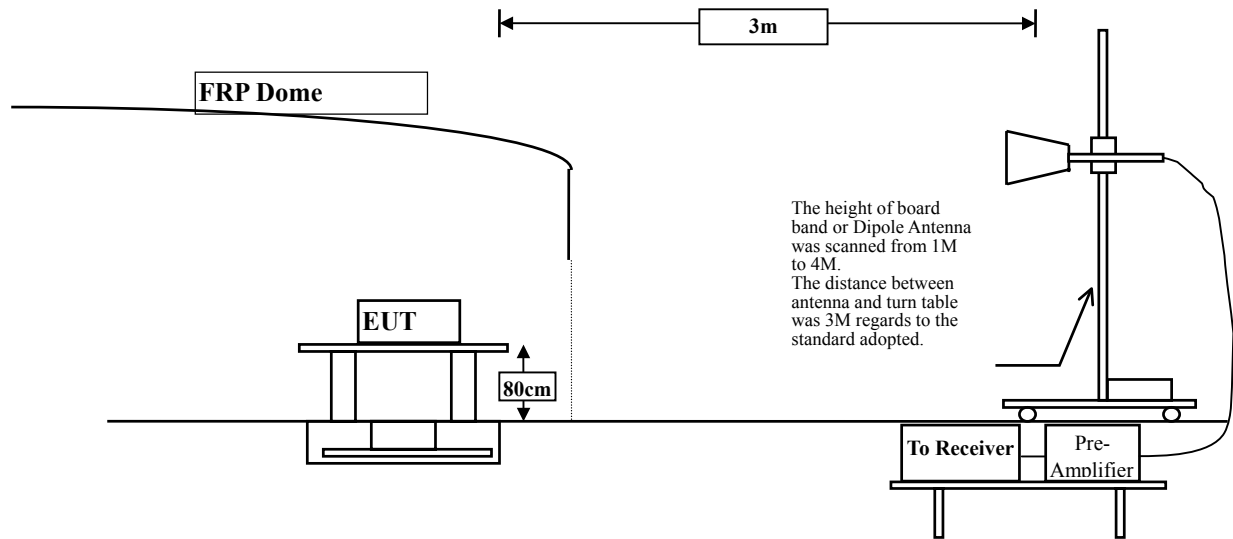
The following test equipment are used during the radiated emission test:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Site # 1		Test Receiver	R & S	ESCS 30 / 825442/14	May, 2005
		Spectrum Analyzer	Advantest	R3261C / 71720140	May, 2005
		Pre-Amplifier	HP	8447D/3307A01812	May, 2005
		Bilog Antenna	Chase	CBL6112B / 12452	Sep., 2005
		Horn Antenna	EM	EM6917 / 103325	May, 2005
Site # 2		Test Receiver	R & S	ESCS 30 / 825442/17	May, 2005
		Spectrum Analyzer	Advantest	R3261C / 71720609	May, 2005
		Pre-Amplifier	HP	8447D/3307A01814	May, 2005
		Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2005
		Horn Antenna	EM	EM6917 / 103325	May, 2005
Site # 3	X	Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2005
	X	Spectrum Analyzer	Advantest	R3162 / 100803480	May, 2005
	X	Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2005
	X	Bilog Antenna	SCHAFFNER	CBL6112B / 2697	May, 2005
	X	Horn Antenna	ETS	3115 / 0005-6160	July, 2005
	X	Pre-Amplifier	QTK	QTK-AMP-01 / 0001	July, 2005

- Note:
1. All instruments are calibrated every one year.
 2. The test instruments marked by "X" are used to measure the final test results.

4.2. Test Setup





4.3. Limits

➤ General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209(a) Limits		
Frequency MHz	uV/m @3m	dBuV/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

- Remarks :
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement.

The additional latch filter below 1GHz was used to measure the level of harmonics radiated emission during field strength of harmonics measurement.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCS 30)is 120 kHz, above 1GHz are 1 MHz.

The frequency range from 30MHz to 10th harmonics is checked.

Note: The lowest frequency of oscillators is 40MHz. And there are no spurious emissions under 30MHz.

4.5. Uncertainty

The measurement uncertainty is defined as ± 3.8 dB above 1GHz as ± 3.9 dB

4.6. Test Result of Radiated Emission

Product : Wireless LAN Card
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2412MHz)

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4823.960	2.772	38.780	41.552	-32.448	74.00
7236.010	7.981	36.410	44.391	-29.609	74.00
9648.000	11.526	36.630	48.156	-25.844	74.00
12059.980	13.468	34.190	47.658	-26.342	74.00
Average Detector:					
--					
Vertical					
Peak Detector:					
4823.880	1.019	43.130	44.149	-29.851	74.00
7236.000	7.981	36.250	44.231	-29.769	74.00
9648.000	13.526	35.500	49.026	-24.974	74.00
12059.980	15.636	34.670	50.306	-23.694	74.00
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Wireless LAN Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

Peak Detector:

4874.040	3.004	37.220	40.224	-33.776	74.00
7311.060	8.551	35.610	44.160	-29.840	74.00
9747.960	11.606	35.750	47.356	-26.644	74.00
12185.040	17.456	32.860	50.316	-23.684	74.00

Average Detector:

--

Vertical

Peak Detector:

4874.040	1.351	43.460	44.811	-29.189	74.00
7311.000	8.550	35.040	43.590	-30.410	74.00
9747.980	13.606	34.700	48.306	-25.694	74.00
12184.980	17.784	33.780	51.563	-22.437	74.00

Average Detector:

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Wireless LAN Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2462 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4920.180	3.203	38.320	41.523	-32.477	74.00
7385.980	9.130	35.980	45.110	-28.890	74.00
9847.940	12.057	35.180	47.238	-26.762	74.00
12309.980	4.116	33.610	37.726	-36.274	74.00
Average Detector:					
--					
Vertical					
Peak Detector:					
4923.860	1.670	42.830	44.500	-29.500	74.00
7386.020	9.130	35.980	45.110	-28.890	74.00
9847.980	13.579	34.920	48.498	-25.502	74.00
12309.980	15.716	34.130	49.847	-24.153	74.00
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Wireless LAN Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3OATS
 Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1) (2412 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4823.940	2.771	36.960	39.732	-34.268	74.00
7235.920	7.981	35.990	43.971	-30.029	74.00
9648.060	11.526	36.110	47.636	-26.364	74.00
12060.020	13.471	32.970	46.441	-27.559	74.00
Average Detector:					
--					
Vertical					
Peak Detector:					
4824.120	1.021	37.600	38.621	-35.379	74.00
7235.980	7.981	36.150	44.131	-29.869	74.00
9648.100	13.527	35.240	48.766	-25.234	74.00
12060.060	15.637	34.180	49.817	-24.183	74.00
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Wireless LAN Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1) (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4873.980	3.004	36.890	39.894	-34.106	74.00
7311.040	8.551	36.360	44.910	-29.090	74.00
9748.100	11.606	35.490	47.096	-26.904	74.00
12184.940	17.456	33.840	51.296	-22.704	74.00
Average Detector:					
--					
Vertical					
Peak Detector:					
4874.120	1.351	37.950	39.301	-34.699	74.00
7310.940	8.549	35.660	44.209	-29.791	74.00
9748.080	13.606	35.250	48.856	-25.144	74.00
12185.000	17.784	33.910	51.694	-22.306	74.00
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Wireless LAN Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1) (2462 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal

Peak Detector:

4923.940	3.218	36.920	40.138	-33.862	74.00
7386.060	9.131	35.680	44.811	-29.189	74.00
9847.960	12.057	34.680	46.738	-27.262	74.00
12309.900	4.102	35.050	39.152	-34.848	74.00

Average Detector:

--

Vertical

Peak Detector:

4924.060	1.671	38.040	39.711	-34.289	74.00
7386.040	9.130	36.290	45.421	-28.579	74.00
9847.920	13.578	35.560	49.138	-24.862	74.00
12309.940	15.717	34.330	50.048	-23.952	74.00

Average Detector:

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Wireless LAN Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmitter 802.11b(Antenna 2) (2412MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4824.100	2.772	36.710	39.482	-34.518	74.00
7236.080	7.982	36.110	44.092	-29.908	74.00
9648.060	11.526	34.810	46.336	-27.664	74.00
12059.980	13.468	33.070	46.538	-27.462	74.00
Average Detector:					
--					
Vertical					
Peak Detector:					
4824.000	1.020	37.100	38.120	-35.880	74.00
7235.980	7.981	36.820	44.801	-29.199	74.00
9648.060	13.526	36.050	49.576	-24.424	74.00
12060.080	15.637	34.400	50.037	-23.963	74.00
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Wireless LAN Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmitter 802.11b(Antenna 2) (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4874.000	3.004	36.640	39.644	-34.356	74.00
7306.000	8.509	36.150	44.659	-29.341	74.00
9748.040	11.606	35.230	46.836	-27.164	74.00
12185.000	17.456	31.930	49.386	-24.614	74.00
Average Detector:					
--					
Vertical					
Peak Detector:					
4874.060	1.351	37.240	38.591	-35.409	74.00
7311.060	8.551	36.070	44.620	-29.380	74.00
9748.000	13.605	35.610	49.216	-24.784	74.00
12185.060	17.785	31.310	49.095	-24.905	74.00
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Wireless LAN Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmitter 802.11b(Antenna 2) (2462 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4924.080	3.218	37.240	40.458	-33.542	74.00
7385.960	9.130	36.480	45.610	-28.390	74.00
9848.040	12.059	35.460	47.519	-26.481	74.00
12310.060	4.129	34.060	38.189	-35.811	74.00
Average Detector:					
--					
Vertical					
Peak Detector:					
4923.920	1.671	42.030	43.700	-30.300	74.00
7386.040	9.130	35.810	44.941	-29.059	74.00
9847.920	13.578	34.860	48.438	-25.562	74.00
12309.920	15.718	34.620	50.338	-23.662	74.00
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Wireless LAN Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3OATS
 Test Mode : Mode 4: Transmitter 802.11g(Antenna 2) (2412 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4824.080	2.772	37.190	39.962	-34.038	74.00
7236.040	7.982	36.710	44.692	-29.308	74.00
9648.000	11.526	35.440	46.966	-27.034	74.00
12059.940	13.465	33.710	47.174	-26.826	74.00
Average Detector:					
--					
Vertical					
Peak Detector:					
4824.120	1.021	38.040	39.061	-34.939	74.00
7236.020	7.981	37.490	45.471	-28.529	74.00
9648.060	13.526	35.180	48.706	-25.294	74.00
12059.960	15.636	34.660	50.295	-23.705	74.00
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Wireless LAN Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmitter 802.11g(Antenna 2) (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4873.980	3.004	37.020	40.024	-33.976	74.00
7311.020	8.550	36.970	45.520	-28.480	74.00
9747.980	11.606	34.810	46.416	-27.584	74.00
12184.960	17.456	31.590	49.046	-24.954	74.00
Average Detector:					
--					
Vertical					
Peak Detector:					
4873.960	1.350	36.690	38.040	-35.960	74.00
7310.920	8.549	35.750	44.299	-29.701	74.00
9748.040	13.606	34.590	48.196	-25.804	74.00
12184.920	17.783	32.150	49.932	-24.068	74.00
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Wireless LAN Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmitter 802.11g(Antenna 2) (2462 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4923.920	3.218	37.700	40.918	-33.082	74.00
7386.080	9.131	36.300	45.431	-28.569	74.00
9847.960	12.057	35.090	47.148	-26.852	74.00
12309.960	4.112	34.730	38.843	-35.157	74.00
Average Detector:					
--					
Vertical					
Peak Detector:					
4924.080	1.671	37.390	39.061	-34.939	74.00
7386.080	9.131	36.310	45.441	-28.559	74.00
9847.960	13.578	34.760	48.338	-25.662	74.00
12309.940	15.717	34.070	49.788	-24.212	74.00
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. Receiver setting (Peak Detector) : RBW:1MHz; VBW:1MHz; Span:100MHz °
3. Receiver setting (AVG Detector) : RBW:1MHz; VBW:30Hz; Span:20MHz °
4. Emission Level = Reading Level + Correct Factor.
5. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Wireless LAN Card
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2412 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
265.230	14.027	7.014	21.041	-24.959	46.000
398.600	16.458	7.974	24.432	-21.568	46.000
522.280	18.602	10.764	29.366	-16.634	46.000
599.880	20.000	10.661	30.661	-15.339	46.000
718.700	20.707	13.555	34.262	-11.738	46.000
839.950	21.985	11.057	33.042	-12.958	46.000
Vertical					
331.120	14.388	12.032	26.420	-19.580	46.000
478.620	18.643	6.597	25.240	-20.760	46.000
599.880	21.899	10.711	32.610	-13.390	46.000
721.120	22.229	4.111	26.340	-19.660	46.000
791.450	22.153	6.007	28.160	-17.840	46.000
839.950	21.403	12.857	34.260	-11.740	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

Product : Wireless LAN Card
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
260.380	14.514	11.080	25.594	-20.406	46.000
311.300	13.820	13.099	26.919	-19.081	46.000
500.450	18.352	12.126	30.478	-15.522	46.000
599.880	20.000	11.721	31.721	-14.279	46.000
721.120	20.929	13.051	33.980	-12.020	46.000
839.950	21.985	13.757	35.742	-10.258	46.000
Vertical					
345.250	14.913	8.337	23.250	-22.750	46.000
384.050	16.822	11.798	28.620	-17.380	46.000
481.050	18.586	10.464	29.050	-16.950	46.000
599.880	21.899	9.551	31.450	-14.550	46.000
718.700	21.907	11.393	33.300	-12.700	46.000
839.950	21.403	12.177	33.580	-12.420	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

Product : Wireless LAN Card
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2462 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
384.050	15.761	8.878	24.639	-21.361	46.000
401.020	16.644	8.142	24.786	-21.214	46.000
599.880	20.000	11.791	31.791	-14.209	46.000
718.700	20.707	12.683	33.390	-12.610	46.000
839.950	21.985	10.167	32.152	-13.848	46.000
876.330	21.967	10.103	32.070	-13.930	46.000
Vertical					
260.380	14.610	12.050	26.660	-19.340	46.000
335.550	14.360	8.360	22.720	-23.280	46.000
481.050	18.586	8.374	26.960	-19.040	46.000
599.880	21.899	12.361	34.260	-11.740	46.000
721.120	22.229	10.801	33.030	-12.970	46.000
839.950	21.403	10.037	31.440	-14.560	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

Product : Wireless LAN Card
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g(Antenna 1) (2412 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
384.050	15.761	9.698	25.459	-20.541	46.000
468.920	18.779	9.765	28.544	-17.456	46.000
529.550	18.654	13.337	31.991	-14.009	46.000
599.880	20.000	11.591	31.591	-14.409	46.000
721.120	20.929	12.531	33.460	-12.540	46.000
839.950	21.985	10.147	32.132	-13.868	46.000
Vertical					
359.800	15.957	9.843	25.800	-20.200	46.000
485.900	18.545	9.525	28.070	-17.930	46.000
599.880	21.899	12.261	34.160	-11.840	46.000
718.700	21.907	10.493	32.400	-13.600	46.000
764.780	22.857	5.903	28.760	-17.240	46.000
839.950	21.403	11.227	32.630	-13.370	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

Product : Wireless LAN Card
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1) (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
376.770	15.837	7.379	23.216	-22.784	46.000
515.000	18.950	8.921	27.871	-18.129	46.000
599.880	20.000	11.261	31.261	-14.739	46.000
624.120	20.859	7.820	28.680	-17.320	46.000
718.700	20.707	11.953	32.660	-13.340	46.000
839.950	21.985	13.117	35.102	-10.898	46.000
Vertical					
219.150	10.370	12.020	22.390	-23.610	46.000
381.620	16.688	8.972	25.660	-20.340	46.000
485.900	18.545	6.955	25.500	-20.500	46.000
599.880	21.899	11.261	33.160	-12.840	46.000
723.550	22.347	9.553	31.900	-14.100	46.000
839.950	21.403	13.377	34.780	-11.220	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

Product : Wireless LAN Card
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1) (2462 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
384.050	15.761	8.298	24.059	-21.941	46.000
599.880	20.000	10.711	30.711	-15.289	46.000
660.500	20.942	9.368	30.310	-15.690	46.000
718.700	20.707	12.623	33.330	-12.670	46.000
839.950	21.985	11.077	33.062	-12.938	46.000
876.330	21.967	10.593	32.560	-13.440	46.000
Vertical					
151.250	10.473	12.597	23.070	-20.430	43.500
478.620	18.643	6.677	25.320	-20.680	46.000
599.880	21.899	11.691	33.590	-12.410	46.000
713.850	21.577	10.563	32.140	-13.860	46.000
827.830	21.428	7.642	29.070	-16.930	46.000
839.950	21.403	13.717	35.120	-10.880	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

Product : Wireless LAN Card
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmitter 802.11b(Antenna 2) (2412 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
367.080	15.893	9.365	25.258	-20.742	46.000
401.020	16.644	6.912	23.556	-22.444	46.000
456.800	18.477	7.978	26.455	-19.545	46.000
597.450	19.917	13.157	33.074	-12.926	46.000
764.780	22.306	7.753	30.059	-15.941	46.000
801.150	21.771	11.192	32.963	-13.037	46.000
Vertical					
345.250	14.913	7.577	22.490	-23.510	46.000
384.050	16.822	9.858	26.680	-19.320	46.000
677.470	20.110	8.040	28.150	-17.850	46.000
750.220	23.184	6.906	30.090	-15.910	46.000
801.150	21.828	12.442	34.270	-11.730	46.000
827.150	21.422	8.428	29.850	-16.150	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

Product : Wireless LAN Card
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmitter 802.11b(Antenna 2) (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
401.020	16.644	10.182	26.826	-19.174	46.000
459.230	18.563	8.250	26.813	-19.187	46.000
563.500	19.112	9.403	28.515	-17.485	46.000
597.450	19.917	12.997	32.914	-13.086	46.000
713.850	20.577	8.063	28.640	-17.360	46.000
901.150	22.041	10.490	32.532	-13.468	46.000
Vertical					
250.680	13.346	12.404	25.750	-20.250	46.000
384.050	16.822	11.518	28.340	-17.660	46.000
612.000	21.748	4.592	26.340	-19.660	46.000
750.220	23.184	7.076	30.260	-15.740	46.000
801.150	21.828	11.222	33.050	-12.950	46.000
876.330	22.617	3.503	26.120	-19.880	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. "■" means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

Product : Wireless LAN Card
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmitter 802.11b(Antenna 2) (2462 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
374.350	16.016	7.516	23.532	-22.468	46.000
476.200	18.910	6.960	25.870	-20.130	46.000
563.500	19.112	6.273	25.385	-20.615	46.000
682.330	20.917	5.484	26.401	-19.599	46.000
801.150	21.771	10.892	32.663	-13.337	46.000
876.330	21.967	6.103	28.070	-17.930	46.000
Vertical					
384.050	16.822	9.828	26.650	-19.350	46.000
481.050	18.586	6.974	25.560	-20.440	46.000
604.720	21.811	4.689	26.500	-19.500	46.000
750.220	23.184	7.386	30.570	-15.430	46.000
801.150	21.828	11.122	32.950	-13.050	46.000
876.330	22.617	6.603	29.220	-16.780	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

Product : Wireless LAN Card
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmitter 802.11g(Antenna 2) (2412 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
260.380	14.514	13.400	27.914	-18.086	46.000
464.080	18.667	9.053	27.720	-18.280	46.000
498.020	18.413	10.437	28.850	-17.150	46.000
599.880	20.000	10.891	30.891	-15.109	46.000
687.170	21.022	8.838	29.860	-16.140	46.000
801.150	21.771	12.552	34.323	-11.677	46.000
Vertical					
384.050	16.822	10.398	27.220	-18.780	46.000
481.050	18.586	8.244	26.830	-19.170	46.000
624.120	21.210	5.000	26.210	-19.790	46.000
687.170	20.371	10.968	31.340	-14.660	46.000
801.150	21.828	11.062	32.890	-13.110	46.000
827.830	21.428	8.032	29.460	-16.540	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

Product : Wireless LAN Card
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmitter 802.11g(Antenna 2) (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
226.430	10.510	12.591	23.101	-22.899	46.000
401.020	16.644	7.002	23.646	-22.354	46.000
563.500	19.112	9.073	28.185	-17.815	46.000
599.880	20.000	12.271	32.271	-13.729	46.000
675.080	20.789	9.564	30.353	-15.647	46.000
932.100	22.840	9.780	32.620	-13.380	46.000
Vertical					
393.750	17.620	6.790	24.410	-21.590	46.000
488.330	18.566	7.884	26.450	-19.550	46.000
595.030	21.868	4.222	26.090	-19.910	46.000
750.220	23.184	6.916	30.100	-15.900	46.000
876.330	22.617	5.763	28.380	-17.620	46.000
941.800	23.800	6.850	30.650	-15.350	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. "■" means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

Product : Wireless LAN Card
 Test Item : General Radiated Emission Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmitter 802.11g(Antenna 2) (2462 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
333.120	14.272	11.248	25.520	-20.480	46.000
500.450	18.352	10.876	29.228	-16.772	46.000
597.450	19.917	11.917	31.834	-14.166	46.000
653.220	20.881	9.752	30.633	-15.367	46.000
721.120	20.929	7.181	28.110	-17.890	46.000
801.150	21.771	11.822	33.593	-12.407	46.000
Vertical					
257.950	14.277	10.733	25.010	-20.990	46.000
384.050	16.822	9.678	26.500	-19.500	46.000
495.600	18.480	7.330	25.810	-20.190	46.000
684.750	20.297	7.603	27.900	-18.100	46.000
801.150	21.828	11.942	33.770	-12.230	46.000
827.830	21.428	7.692	29.120	-16.880	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. “ ” means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. The radiated emissions were checked with horizontal and vertical positions of the cords to find the worst emissions.

5. Band Edge

5.1. Test Equipment

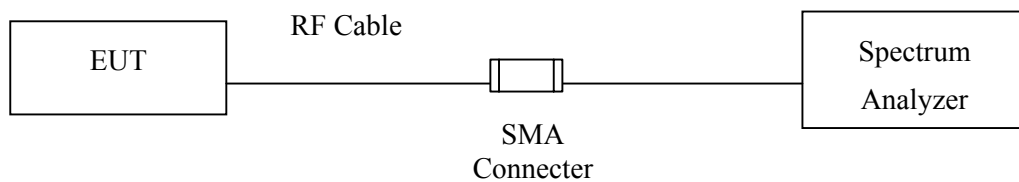
The following test equipments are used during the band edge tests:

Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X Spectrum Analyzer	HP	E4407B / US39440758	May, 2005
X Test Receiver	R & S	ESCS 30 / 825442/14	May, 2005
X Spectrum Analyzer	Advantest	R3261C / 71720140	May, 2005
X Pre-Amplifier	HP	8447D/3307A01812	May, 2005
X Bilog Antenna	Chase	CBL6112B / 12452	Sep., 2005
X Horn Antenna	EM	EM6917 / 103325	May, 2005

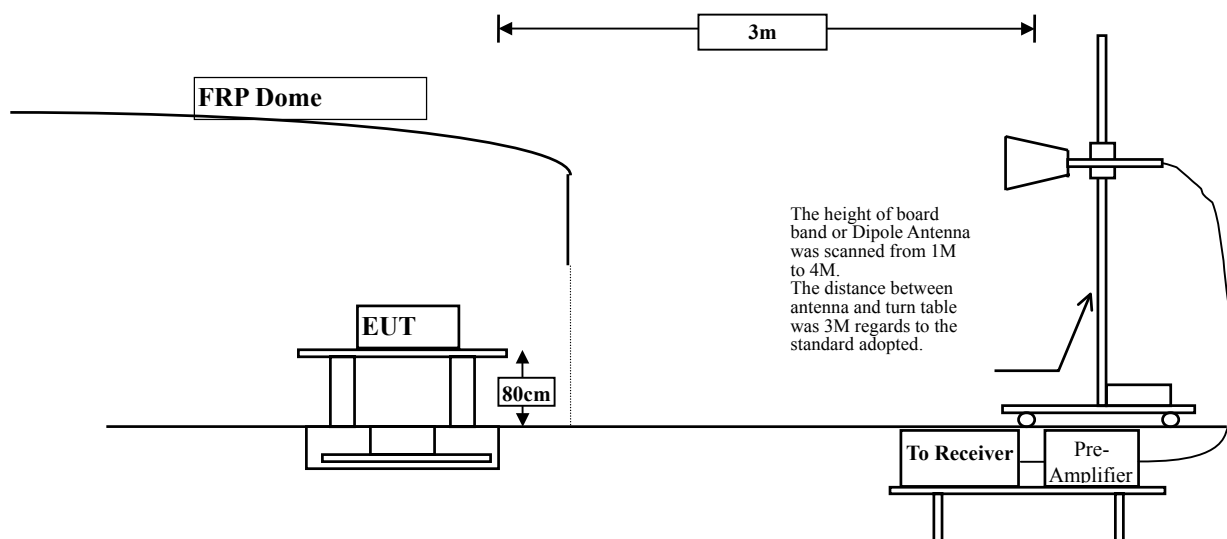
Note: 1. All instruments are calibrated every one year.
2. The test instruments marked by "X" are used to measure the final test results.

5.2. Test Setup

RF Conducted Measurement:



RF Radiated Measurement:



5.3. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCS 30)is 120 kHz, above 1GHz are 1 MHz.

5.5. Uncertainty

The measurement uncertainty Conducted is defined as ± 1 MHz and Radiated above 1GHz as ± 3.9 dB.

5.6. Test Result of Band Edge

Product : Wireless LAN Card
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b(Antenna 1)

RF Radiated Measurement:

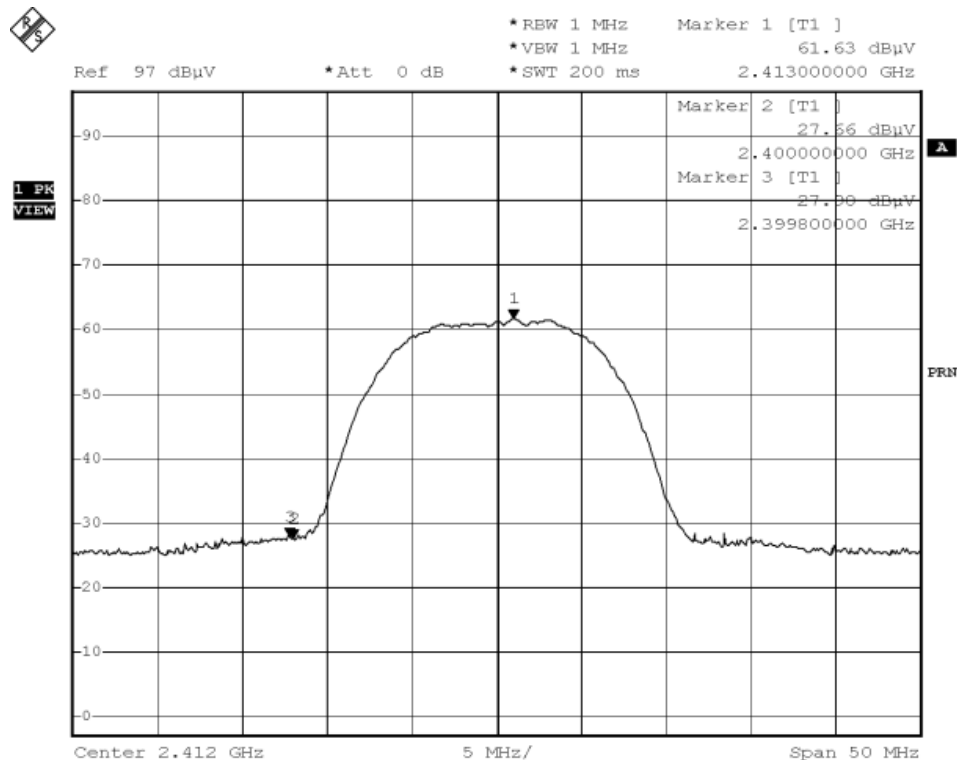
Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
1 (Horizontal)	<2400	>20	Pass

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Peak)	2399.800	27.900	56.327	74.00	54.00	Pass
1 (Average)	2399.800	15.830	44.257	74.00	54.00	Pass

Figure Channel 1:

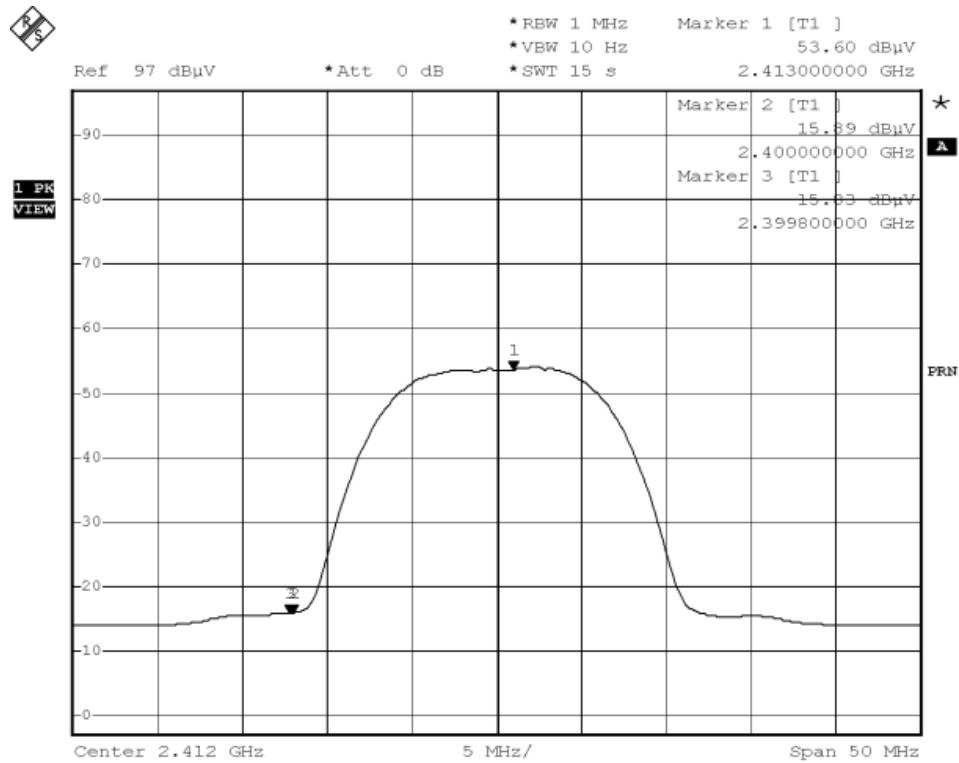
Horizontal (Peak)



Date: 23.MAR.2006 20:59:10

Figure Channel 1:

Horizontal (Average)



Date: 23.MAR.2006 21:00:52

Product : Wireless LAN Card
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b(Antenna 1)

RF Radiated Measurement:

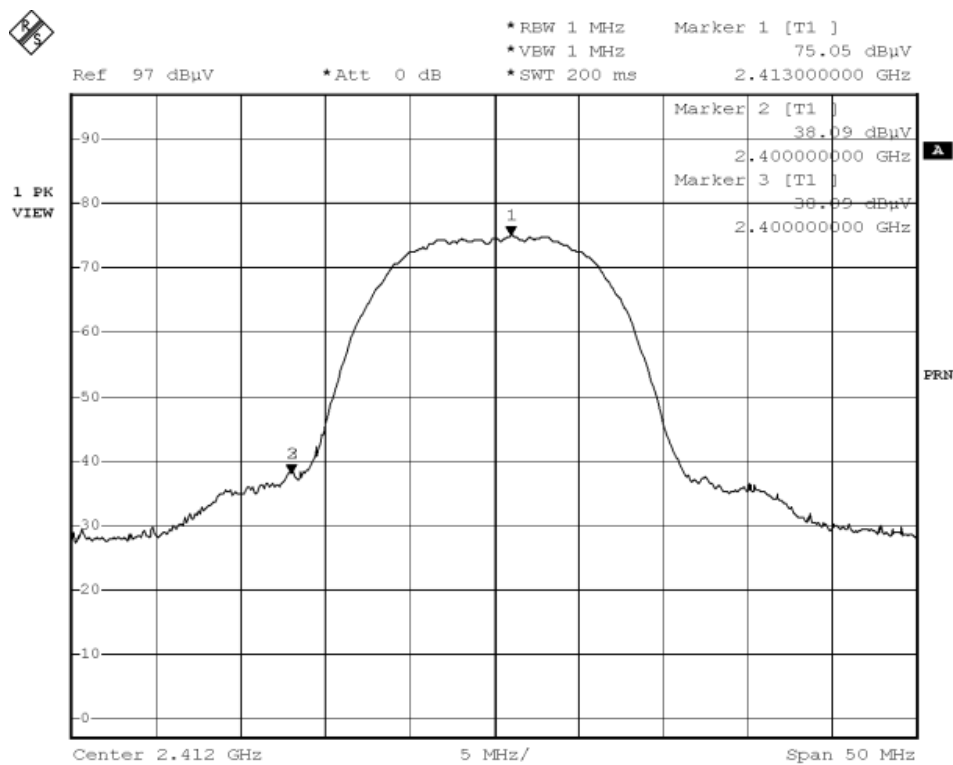
Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
1 (Vertical)	<2400	>20	Pass

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Peak)	2400.000	38.090	64.918	74.00	54.00	Pass
1 (Average)	2400.000	25.220	52.048	74.00	54.00	Pass

Figure Channel 1:

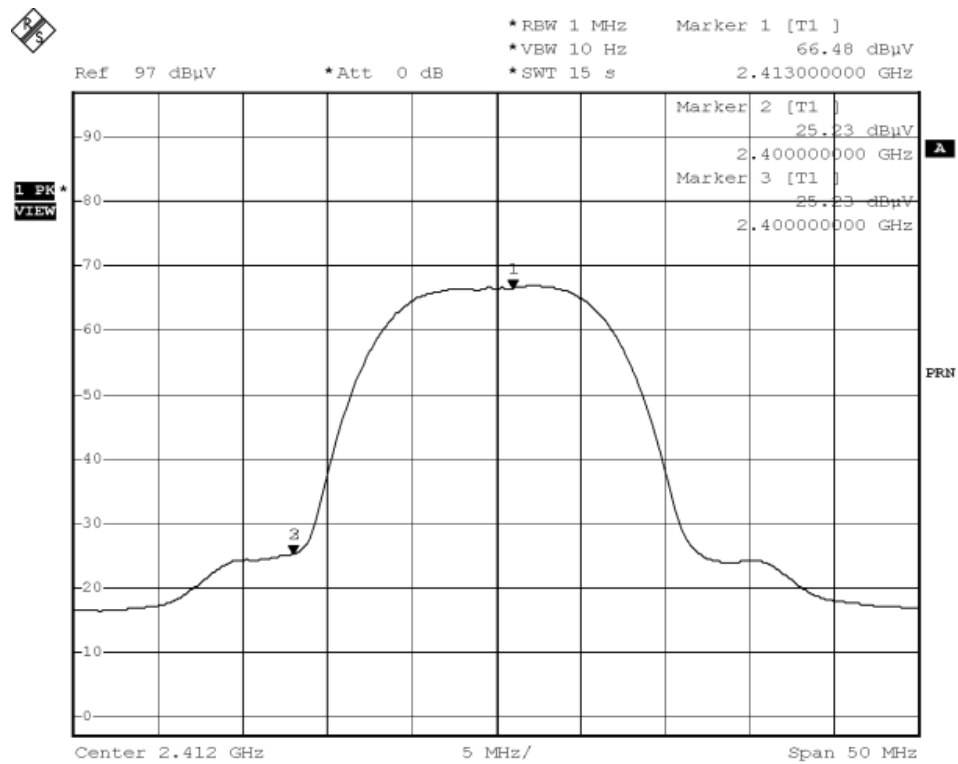
Vertical (Peak)



Date: 23.MAR.2006 20:37:35

Figure Channel 1:

Vertical (Average)



Date: 23.MAR.2006 20:38:51

Product : Wireless LAN Card
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b(Antenna 1)

RF Radiated Measurement:

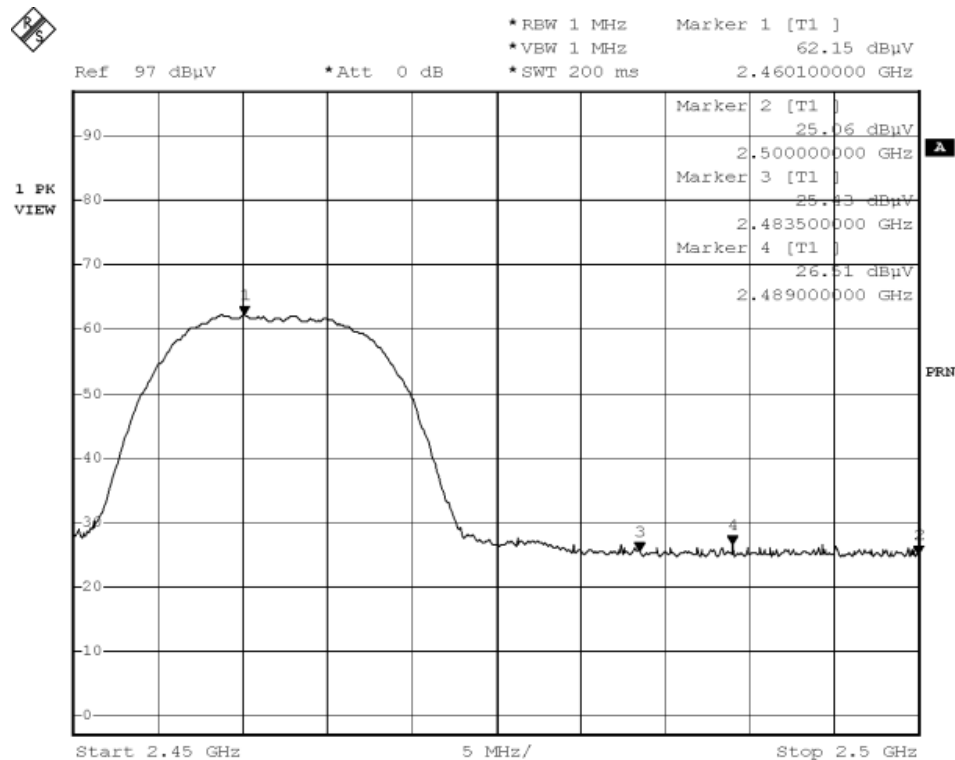
Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
11 (Horizontal)	>2483.5	>20	Pass

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Peak)	2489.000	26.510	55.240	74.00	54.00	Pass
11(Average)	2489.000	13.880	42.610	74.00	54.00	Pass

Figure Channel 11:

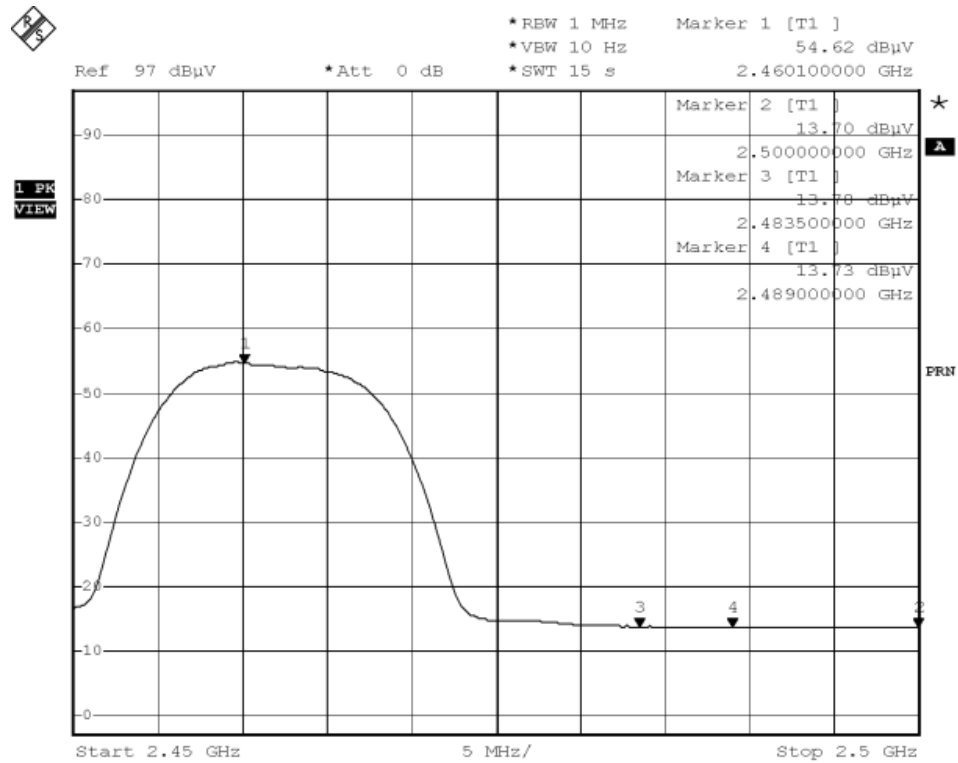
Horizontal (Peak)



Date: 23.MAR.2006 21:28:46

Figure Channel 11:

Horizontal (Average)



Date: 23.MAR.2006 21:29:37

Product : Wireless LAN Card
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b(Antenna 1)

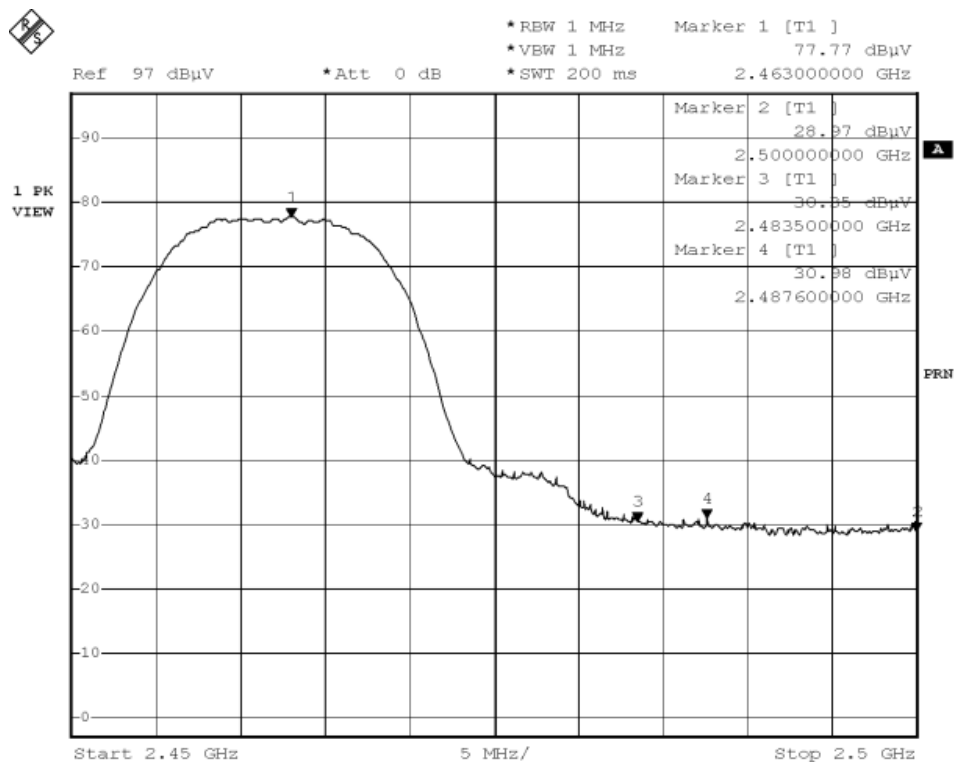
RF Radiated Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
11 (Vertical)	>2483.5	>20	Pass

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Peak)	2487.600	30.980	58.105	74.00	54.00	Pass
11(Average)	2487.600	18.340	45.465	74.00	54.00	Pass

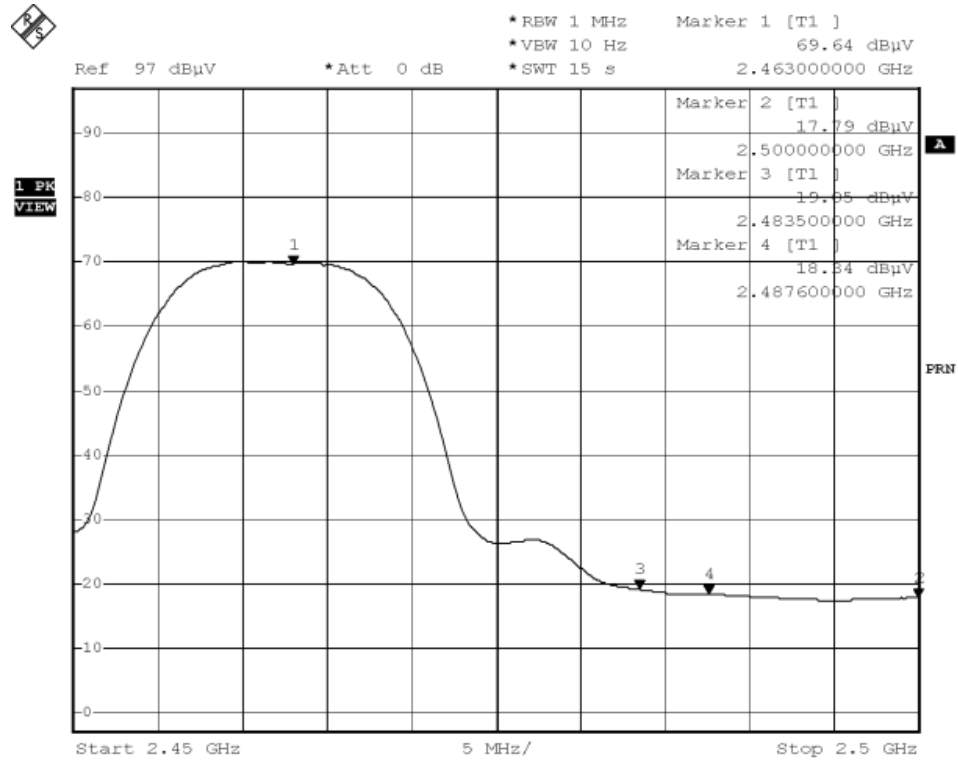
Figure Channel 11: Vertical (Peak)



Date: 23.MAR.2006 21:23:13

Figure Channel 11:

Vertical (Average)



Date: 23.MAR.2006 21:24:30

Product : Wireless LAN Card
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1)

RF Radiated Measurement:

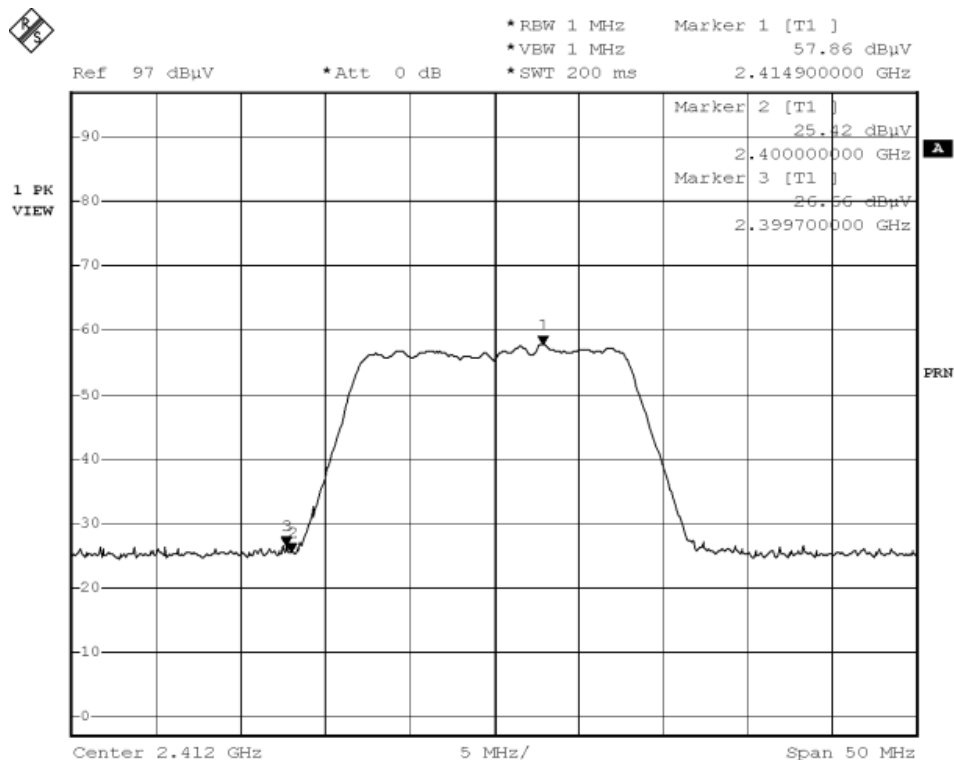
Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
1 (Horizontal)	<2400	>20	Pass

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Peak)	2399.700	26.660	55.087	74.00	54.00	Pass
1 (Average)	2399.700	14.500	42.927	74.00	54.00	Pass

Figure Channel 1:

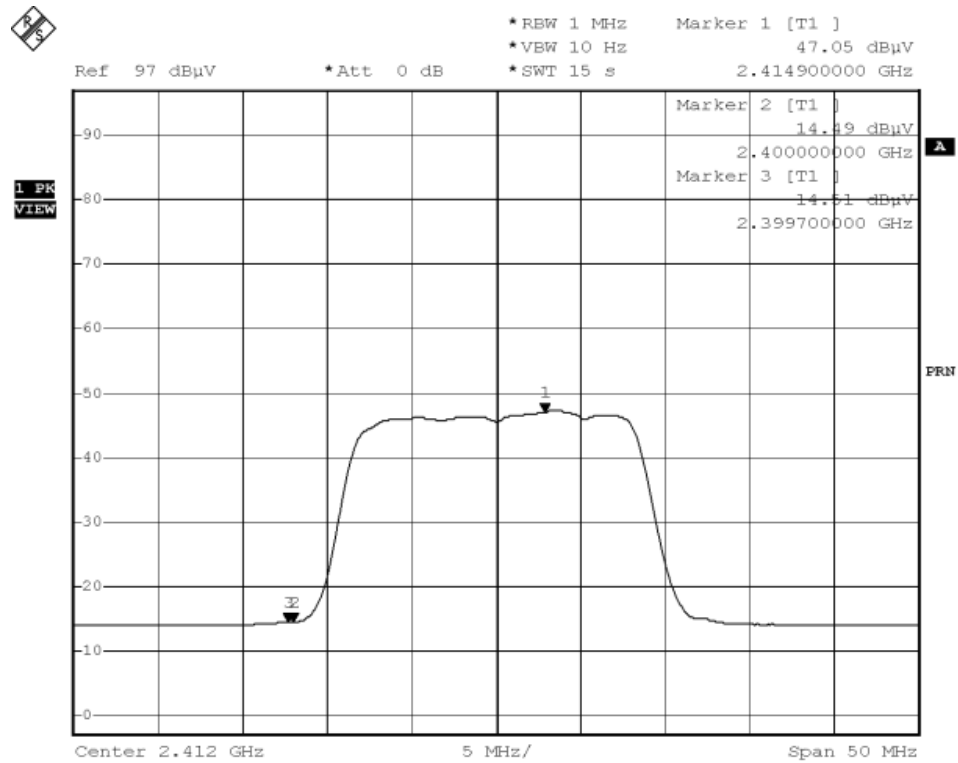
Horizontal (Peak)



Date: 23.MAR.2006 21:06:56

Figure Channel 1:

Horizontal (Average)



Date: 23.MAR.2006 21:08:04

Product : Wireless LAN Card
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1)

RF Radiated Measurement:

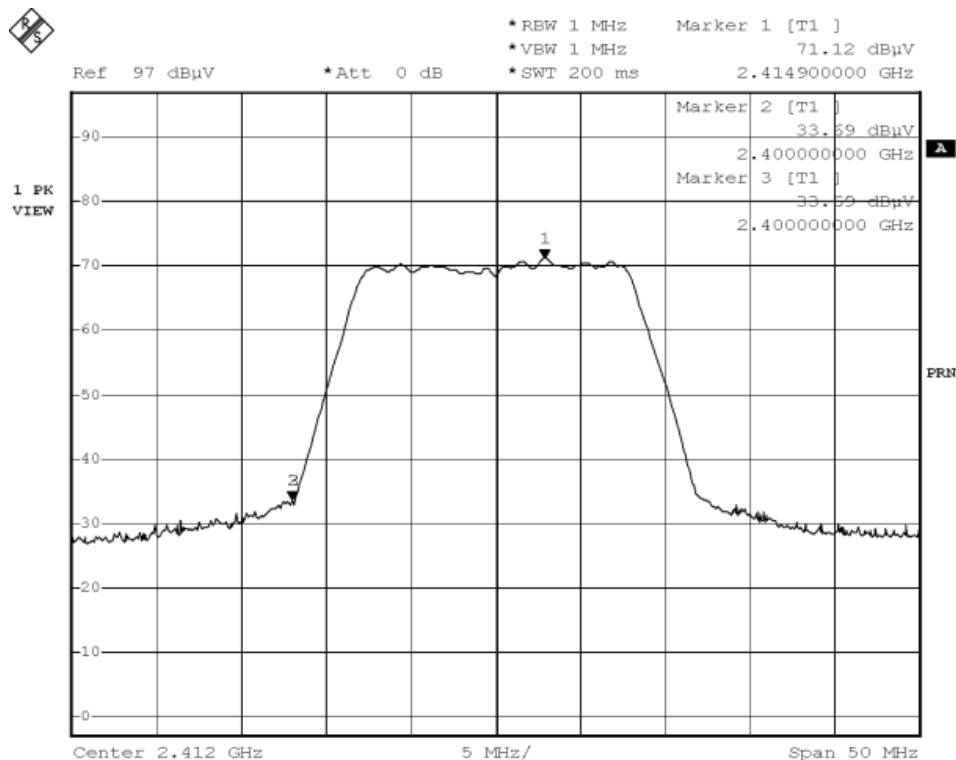
Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
1 (Vertical)	<2400	>20	Pass

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Peak)	2400.000	33.690	60.518	74.00	54.00	Pass
1 (Average)	2400.000	21.440	48.268	74.00	54.00	Pass

Figure Channel 1:

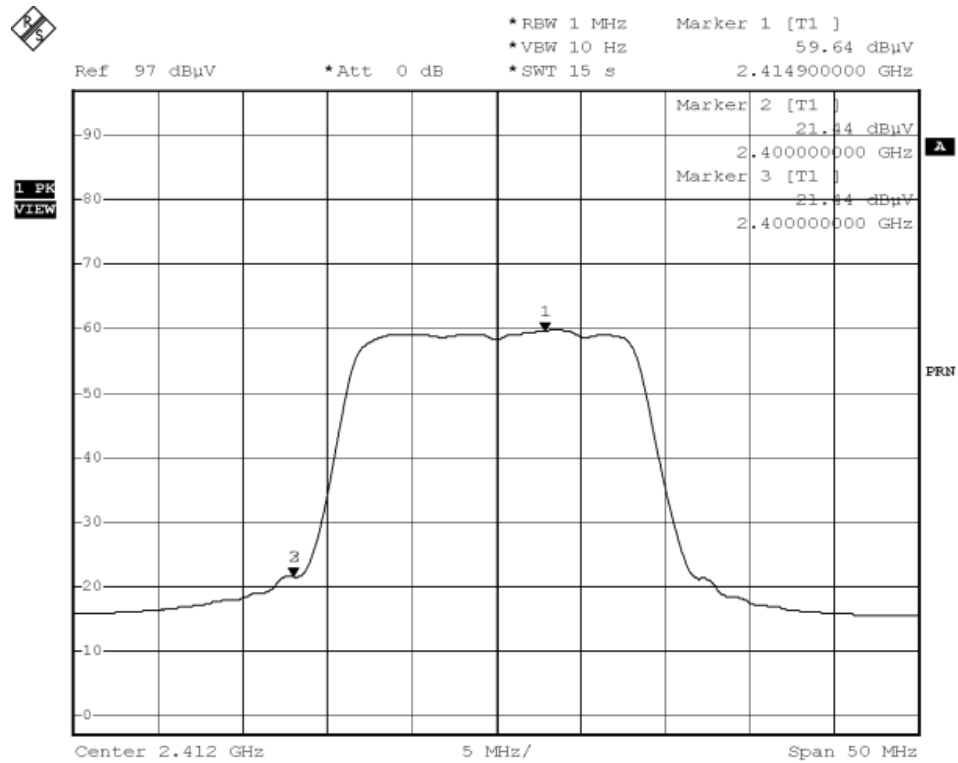
Vertical (Peak)



Date: 23.MAR.2006 21:12:13

Figure Channel 1:

Vertical (Average)



Date: 23.MAR.2006 21:16:26

Product : Wireless LAN Card
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1)

RF Radiated Measurement:

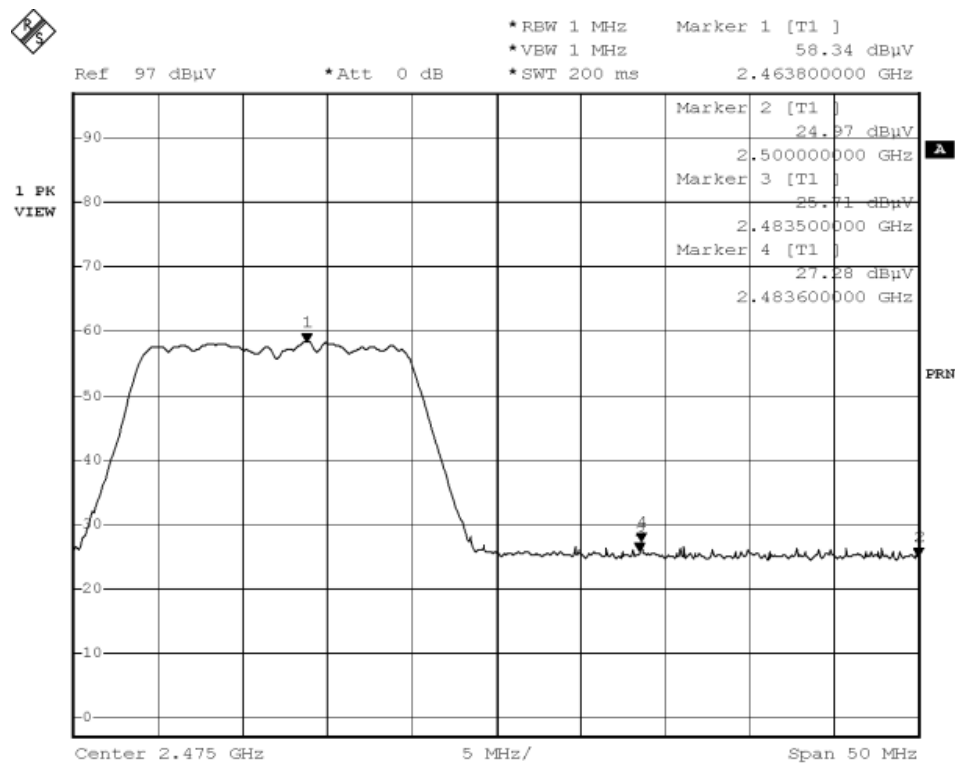
Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
11 (Horizontal)	>2483.5	>20	Pass

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2483.600	27.280	55.992	74.00	54.00	Pass
11(Average)	2483.600	13.930	42.642	74.00	54.00	Pass

Figure Channel 11:

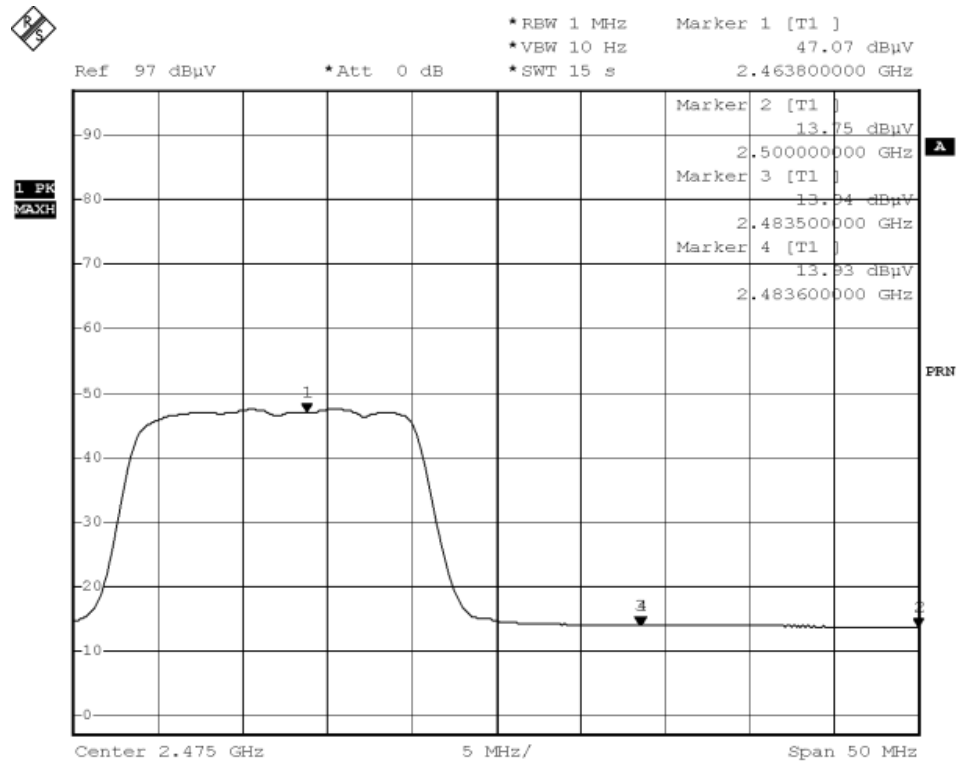
Horizontal (Peak)



Date: 23.MAR.2006 21:49:10

Figure Channel 11:

Horizontal (Average)



Date: 23.MAR.2006 21:50:19

Product : Wireless LAN Card
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1)

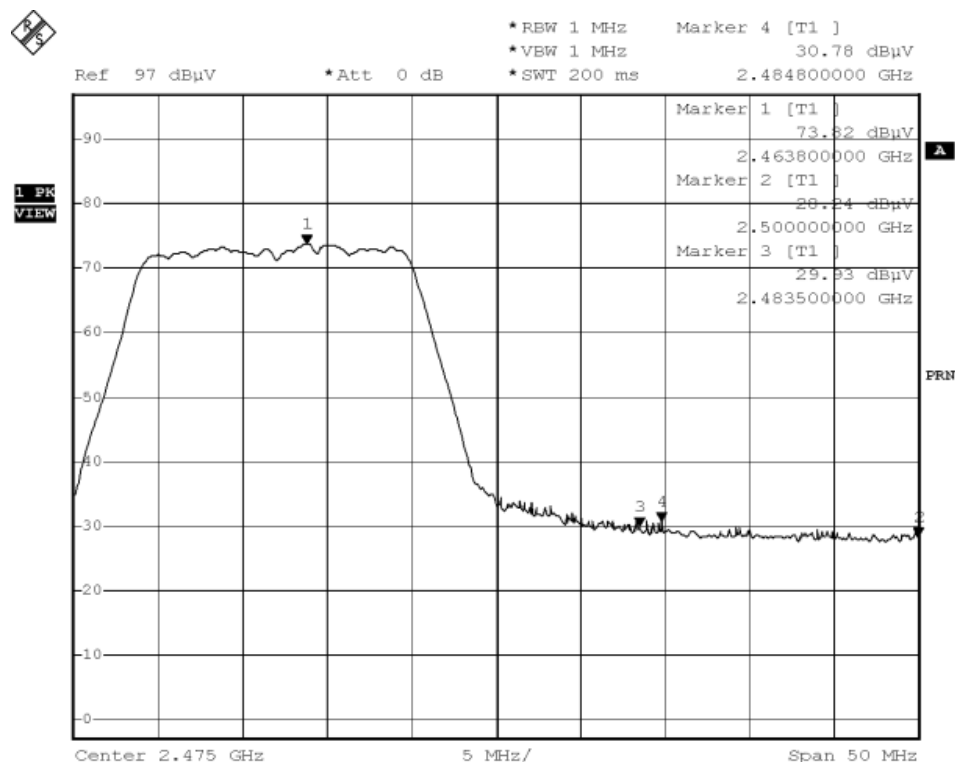
RF Radiated Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
11 (Vertical)	>2483.5	>20	Pass

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2484.800	30.780	57.896	74.00	54.00	Pass
11(Average)	2484.800	17.950	45.066	74.00	54.00	Pass

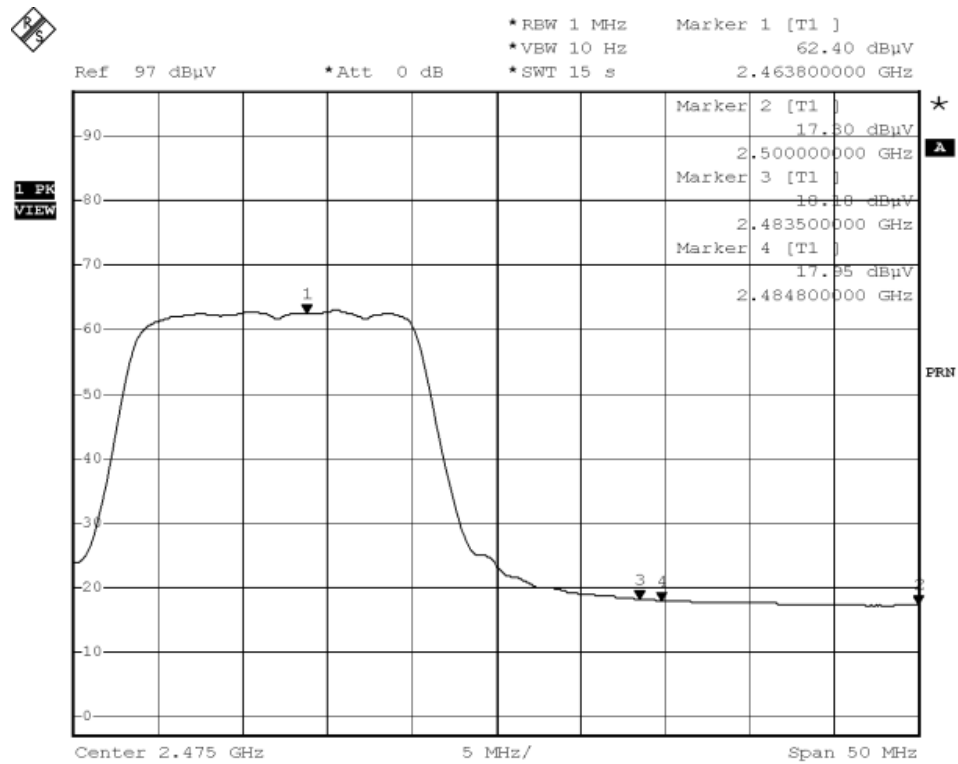
Figure Channel 11: Vertical (Peak)



Date: 23.MAR.2006 21:42:24

Figure Channel 11:

Vertical (Average)



Date: 23.MAR.2006 21:43:59

Product : Wireless LAN Card
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmitter 802.11b(Antenna 2)

RF Radiated Measurement:

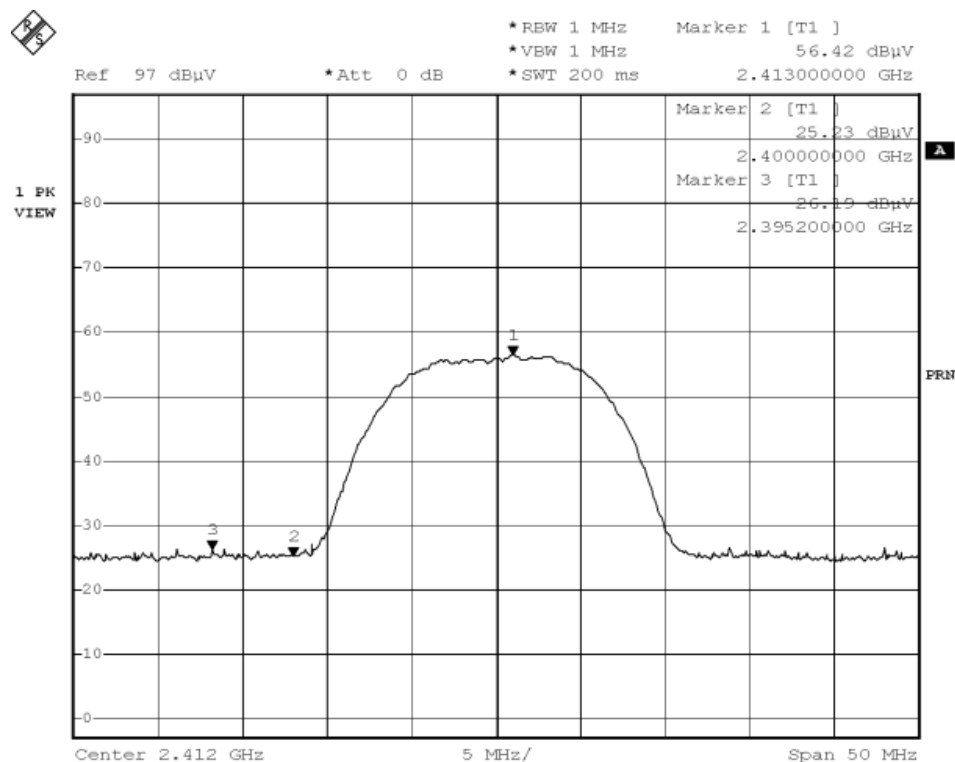
Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
1 (Horizontal)	<2400	>20	Pass

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Peak)	2395.200	26.190	54.604	74.00	54.00	Pass
1 (Average)	2395.200	14.000	42.414	74.00	54.00	Pass

Figure Channel 1:

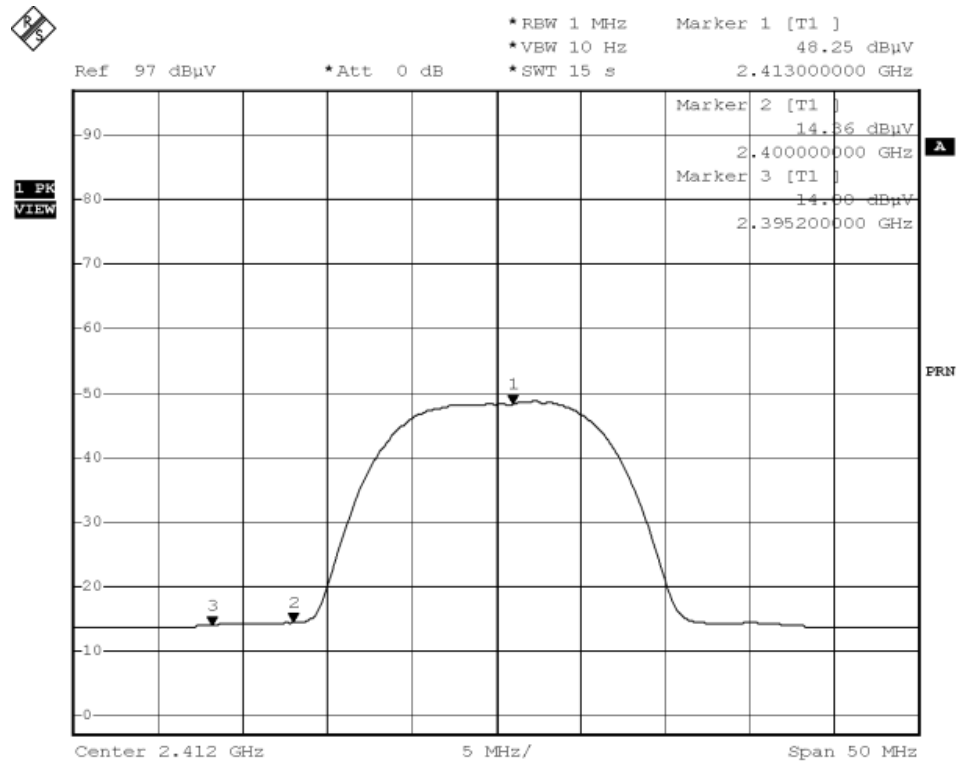
Horizontal (Peak)



Date: 23.MAR.2006 18:16:49

Figure Channel 1:

Horizontal (Average)



Date: 23.MAR.2006 18:18:12

Product : Wireless LAN Card
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmitter 802.11b(Antenna 2)

RF Radiated Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
1 (Vertical)	<2400	>20	Pass

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Peak)	2399.700	28.950	55.777	74.00	54.00	Pass
1 (Average)	2399.700	16.500	43.327	74.00	54.00	Pass

Figure Channel 1:

Vertical (Peak)

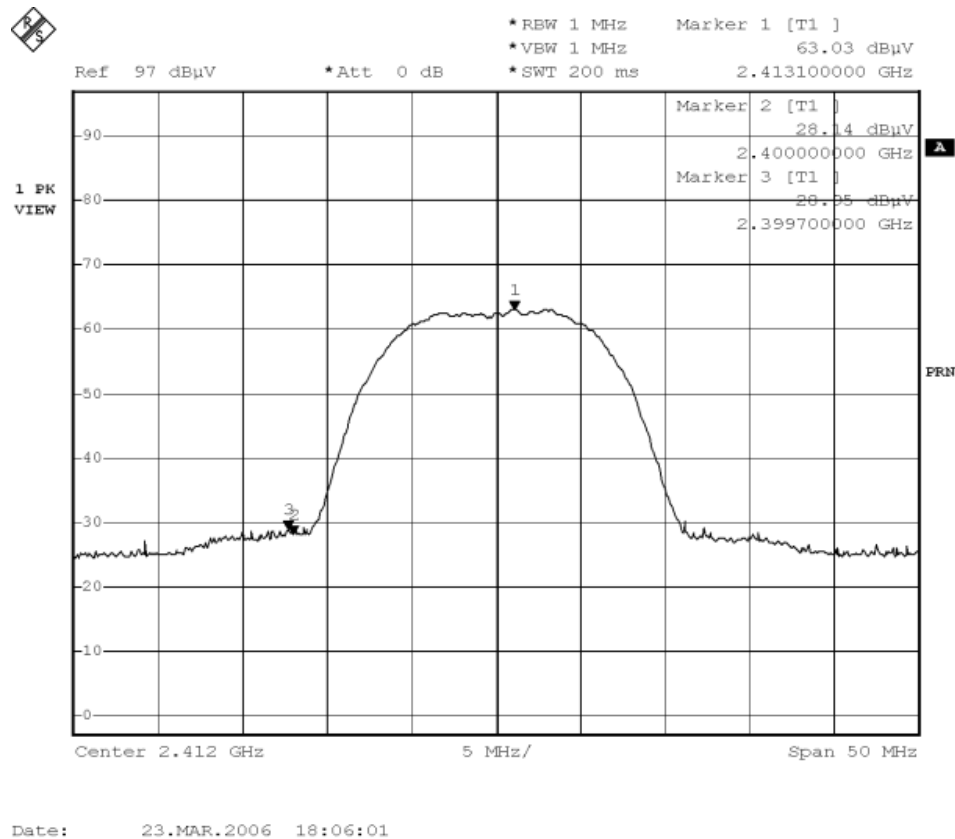
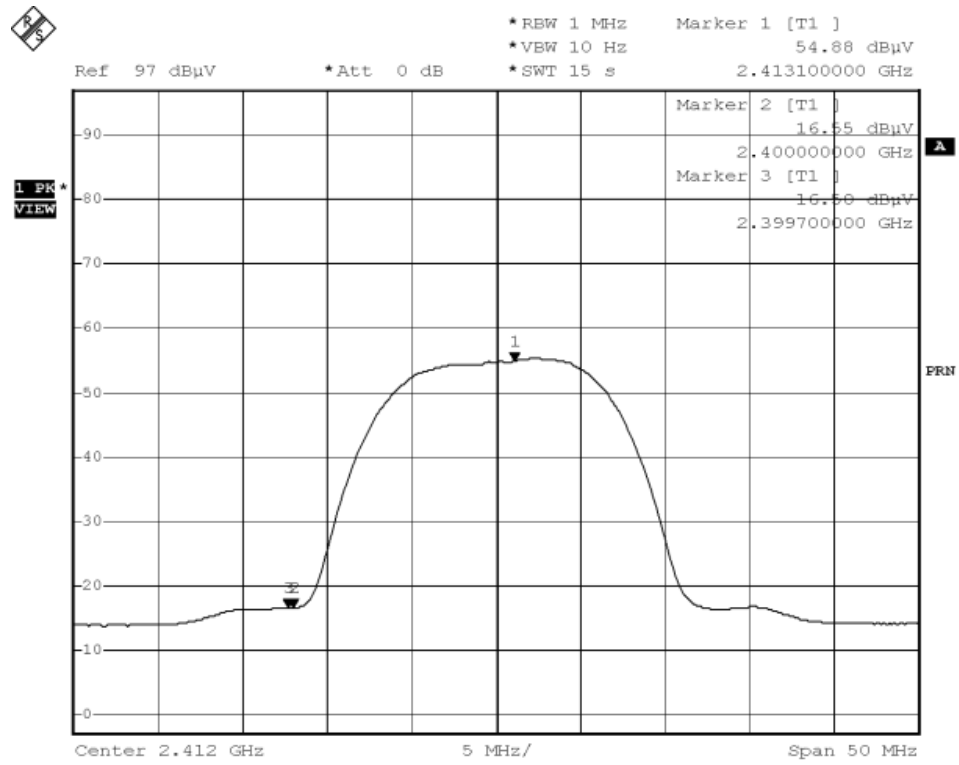


Figure Channel 1:

Vertical (Average)



Date: 23.MAR.2006 18:13:02

Product : Wireless LAN Card
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmitter 802.11b(Antenna 2)

RF Radiated Measurement:

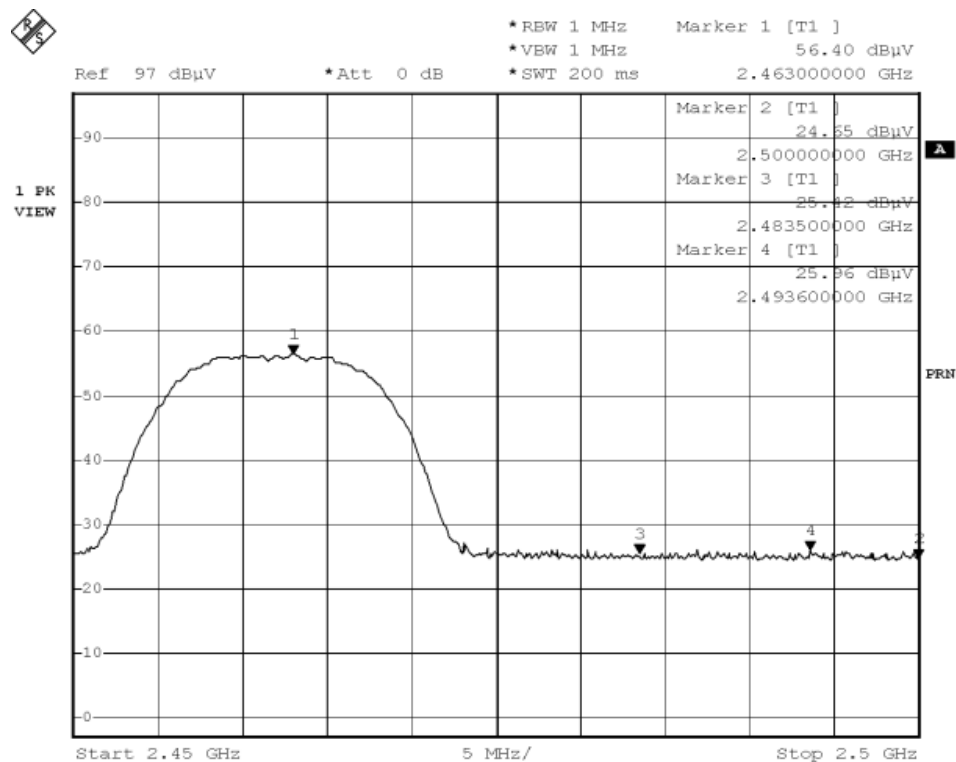
Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
11 (Horizontal)	>2483.5	>20	Pass

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Peak)	2493.600	25.960	54.705	74.00	54.00	Pass
11(Average)	2493.600	13.710	42.455	74.00	54.00	Pass

Figure Channel 11:

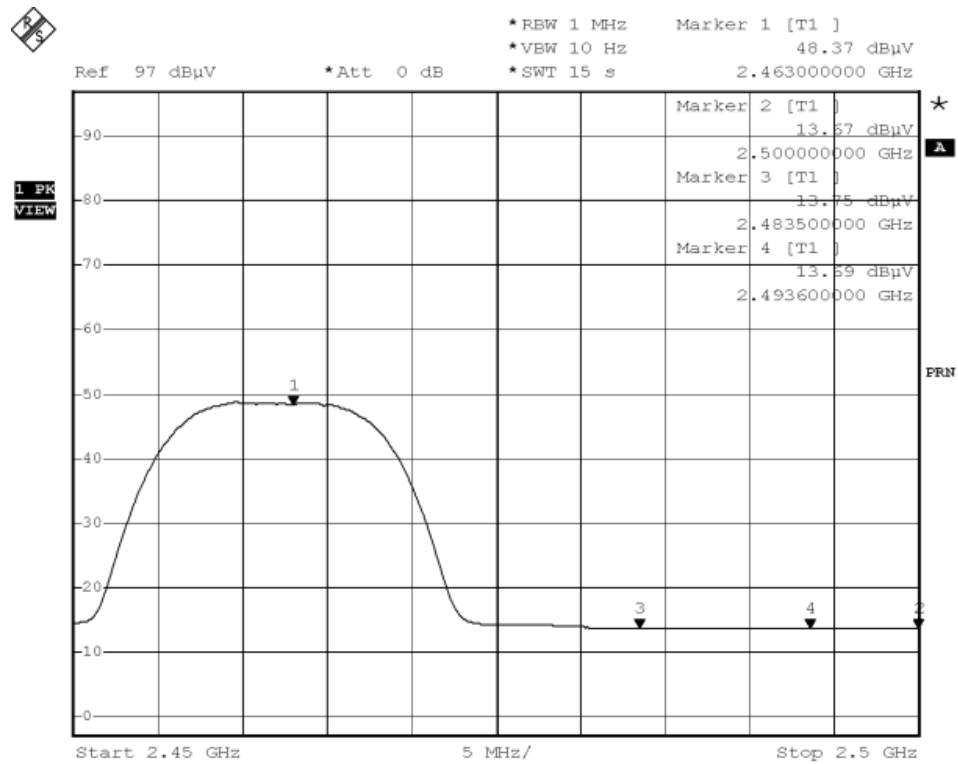
Horizontal (Peak)



Date: 23.MAR.2006 19:50:10

Figure Channel 11:

Horizontal (Average)



Date: 23.MAR.2006 19:51:01

Product : Wireless LAN Card
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmitter 802.11b(Antenna 2)

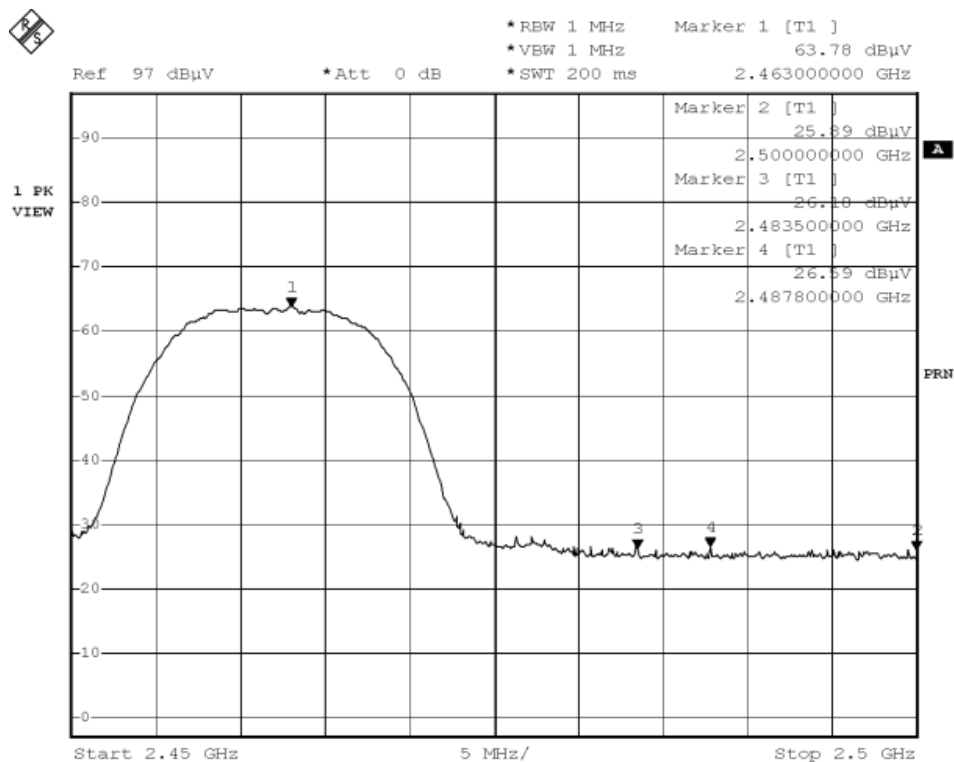
RF Radiated Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
11 (Vertical)	>2483.5	>20	Pass

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11(Peak)	2487.800	26.590	53.716	74.00	54.00	Pass
11(Average)	2487.800	13.960	41.086	74.00	54.00	Pass

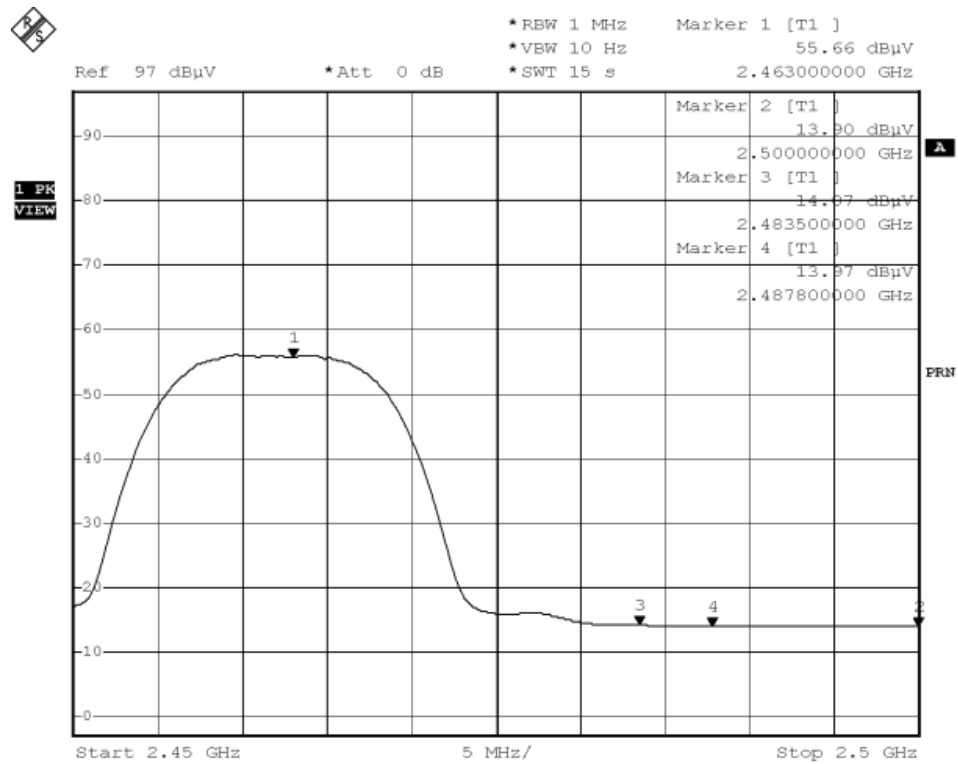
Figure Channel 11: Vertical (Peak)



Date: 23.MAR.2006 19:43:24

Figure Channel 11:

Vertical (Average)



Date: 23.MAR.2006 19:44:31

Product : Wireless LAN Card
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmitter 802.11g(Antenna 2)

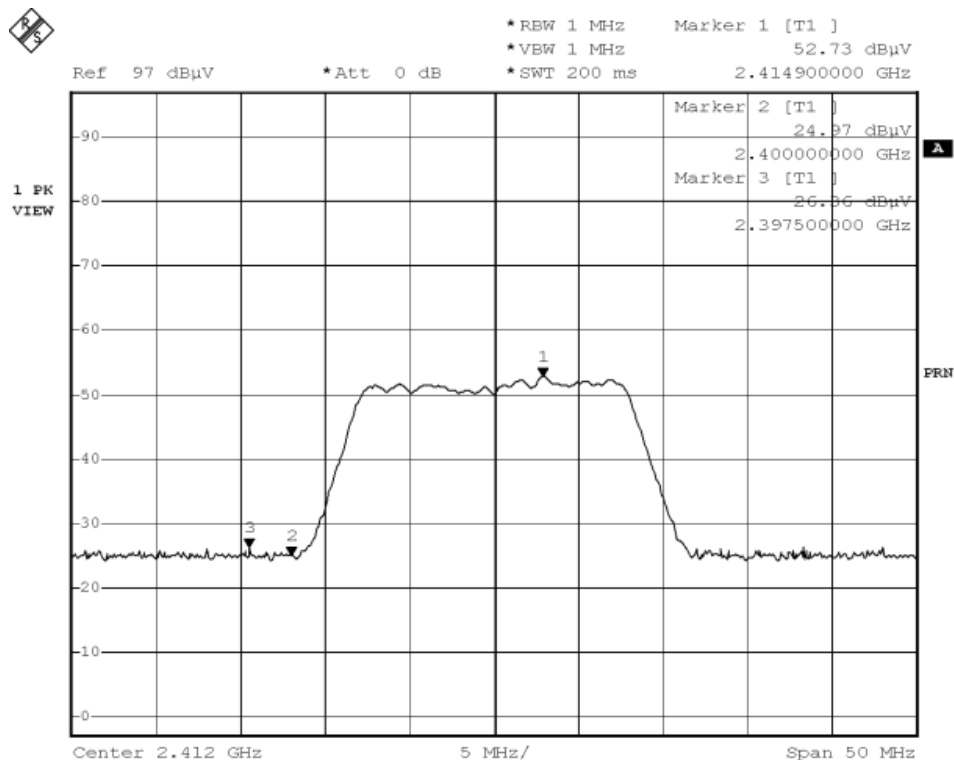
RF Radiated Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
1 (Horizontal)	<2400	>20	Pass

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Peak)	2397.500	26.360	54.780	74.00	54.00	Pass
1 (Average)	2397.500	13.700	42.120	74.00	54.00	Pass

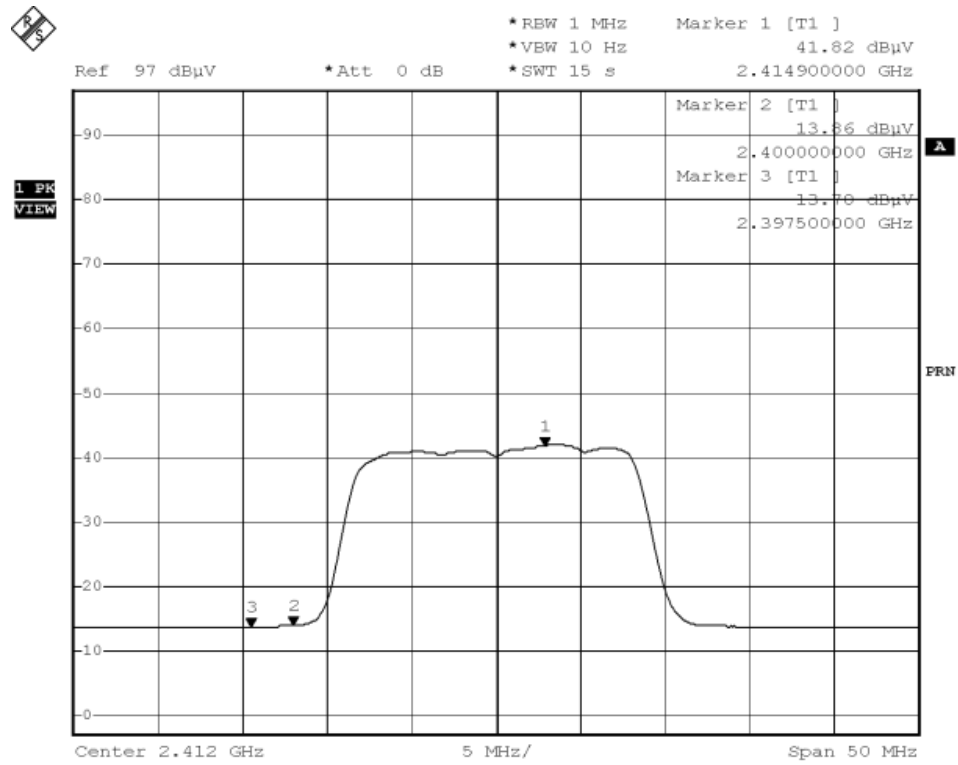
Figure Channel 1: Horizontal (Peak)



Date: 23.MAR.2006 18:22:42

Figure Channel 1:

Horizontal (Average)



Date: 23.MAR.2006 18:23:29

Product : Wireless LAN Card
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmitter 802.11g(Antenna 2)

RF Radiated Measurement:

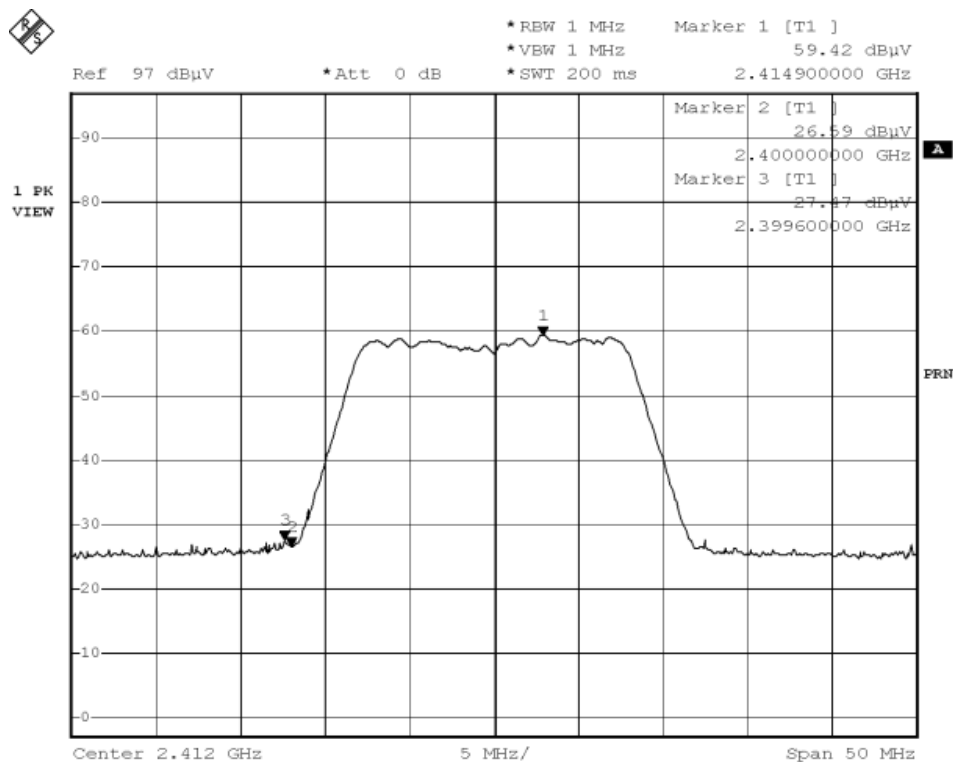
Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
1 (Vertical)	<2400	>20	Pass

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
1 (Peak)	2399.600	27.470	54.296	74.00	54.00	Pass
1 (Average)	2399.600	15.280	42.106	74.00	54.00	Pass

Figure Channel 1:

Vertical (Peak)



Date: 23.MAR.2006 19:29:59

Vertical (Average)



Product : Wireless LAN Card
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmitter 802.11g(Antenna 2)

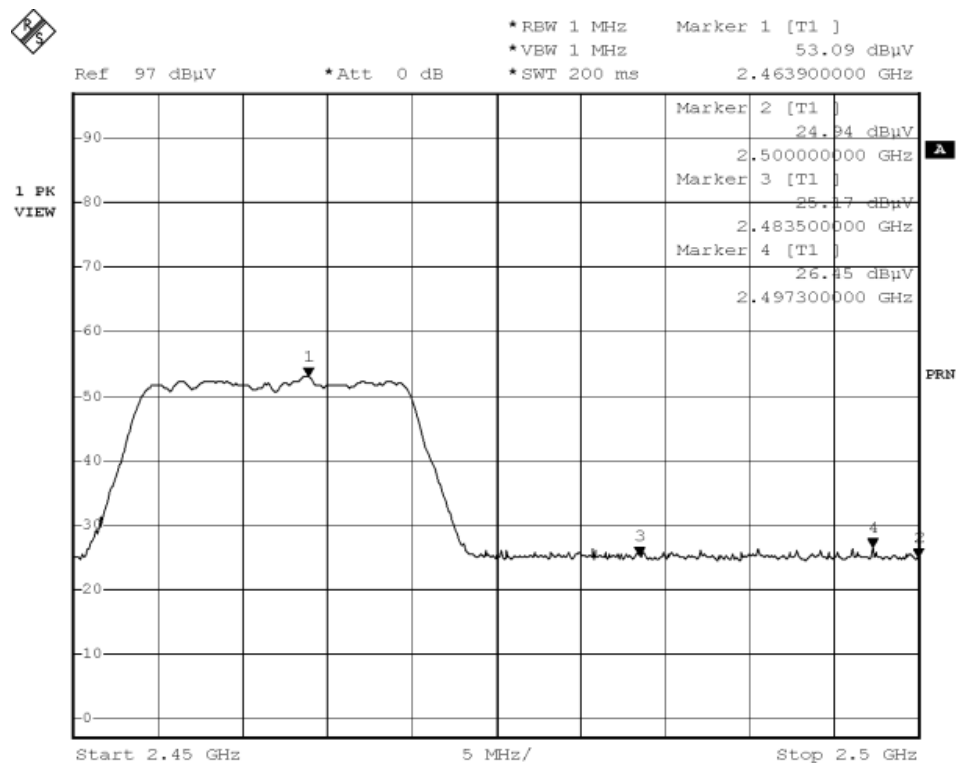
RF Radiated Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
11 (Horizontal)	>2483.5	>20	Pass

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2497.300	25.450	54.206	74.00	54.00	Pass
11(Average)	2497.300	13.683	42.439	74.00	54.00	Pass

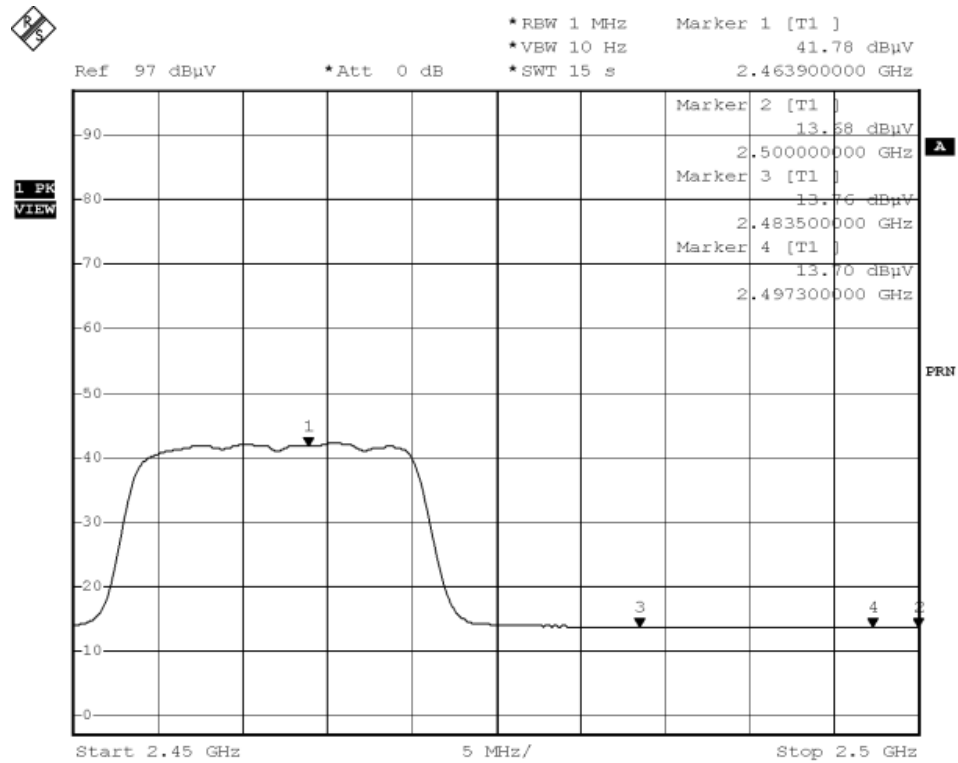
Figure Channel 11: Horizontal (Peak)



Date: 23.MAR.2006 20:00:58

Figure Channel 11:

Horizontal (Average)



Date: 23.MAR.2006 20:02:37

Product : Wireless LAN Card
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmitter 802.11g(Antenna 2)

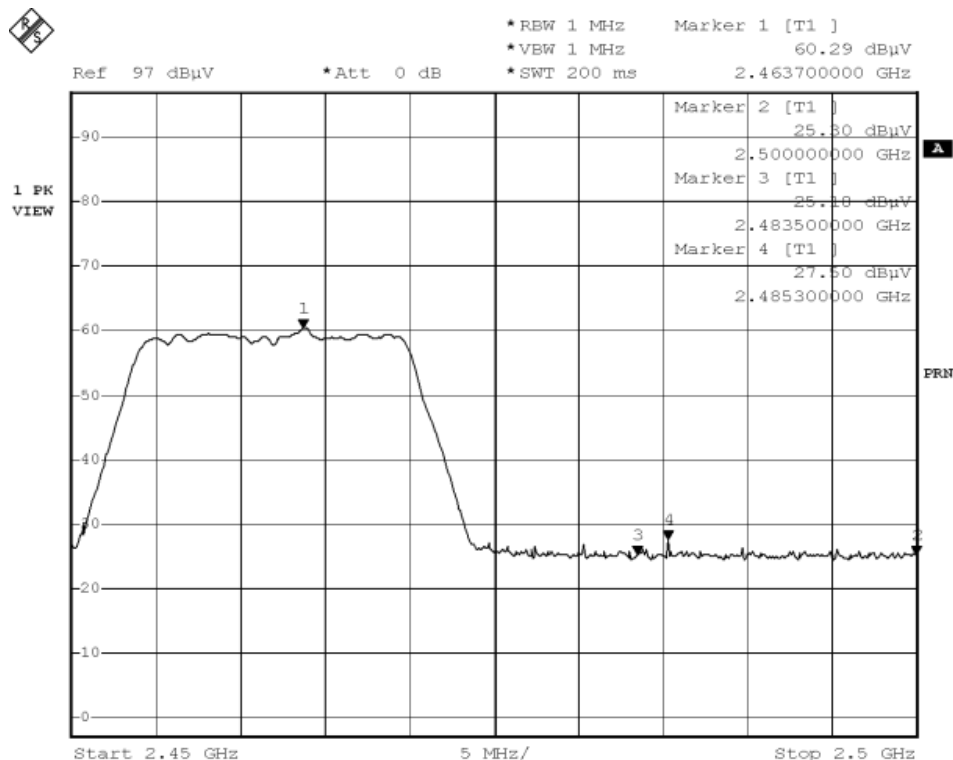
RF Radiated Measurement:

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
11 (Horizontal)	>2483.5	>20	Pass

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2485.300	27.500	54.617	74.00	54.00	Pass
11(Average)	2485.300	13.960	41.077	74.00	54.00	Pass

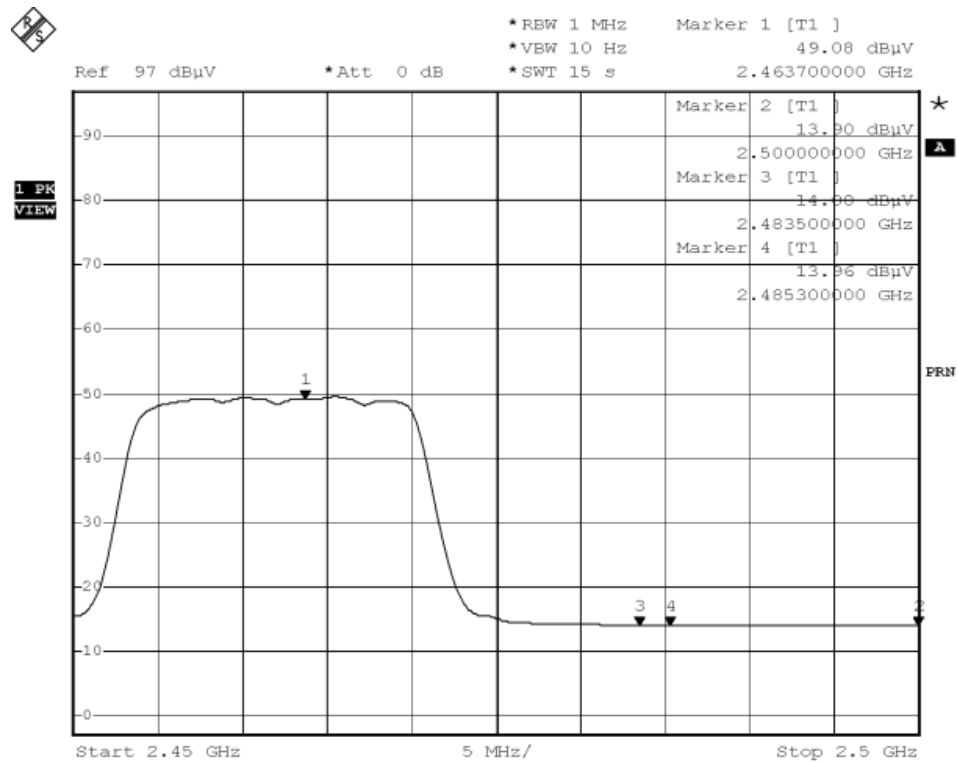
Figure Channel 11: Vertical (Peak)



Date: 23.MAR.2006 20:08:26

Figure Channel 11:

Vertical (Average)



Note: The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

6. Occupied Bandwidth

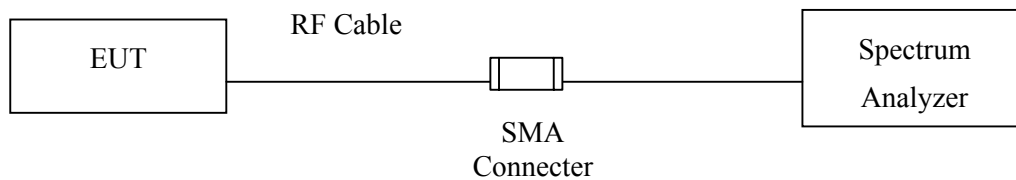
6.1. Test Equipment

The following test equipments are used during the radiated emission tests:

Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2005

Note: 1. All instruments are calibrated every one year.
2. The test instruments marked by “X” are used to measure the final test results.

6.2. Test Setup



6.3. Limits

The minimum bandwidth shall be at least 500kHz.

6.4. Uncertainty

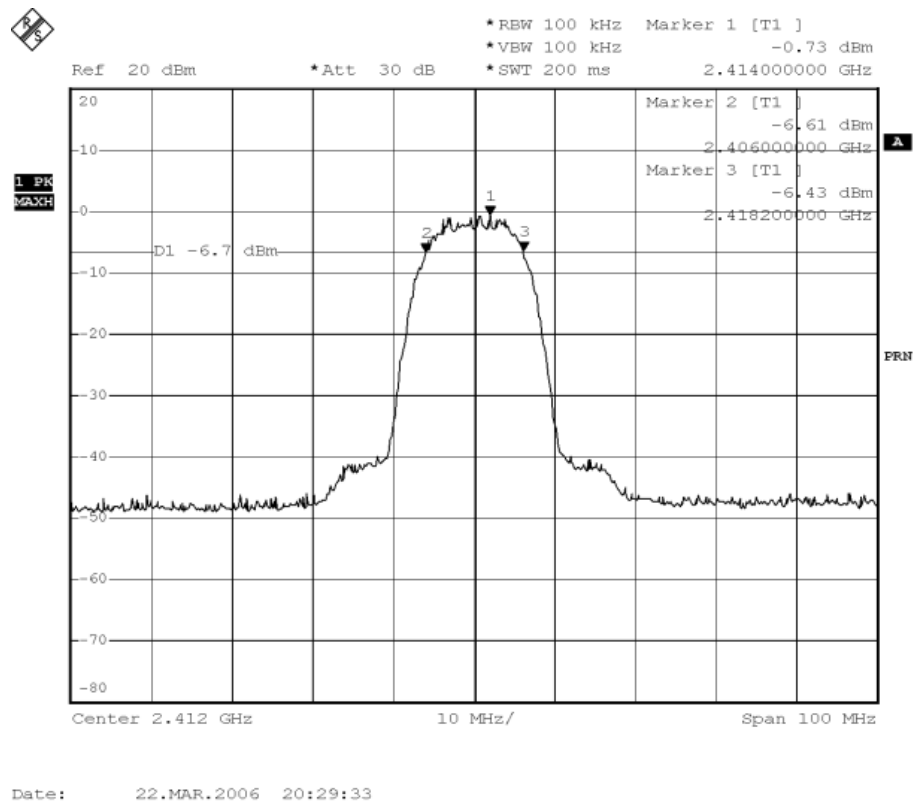
The measurement uncertainty is defined as ± 1.27 dB

6.5. Test Result of Occupied Bandwidth

Product : Wireless LAN Card
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1 (11Mbps)	2412.00	12200	>500	Pass

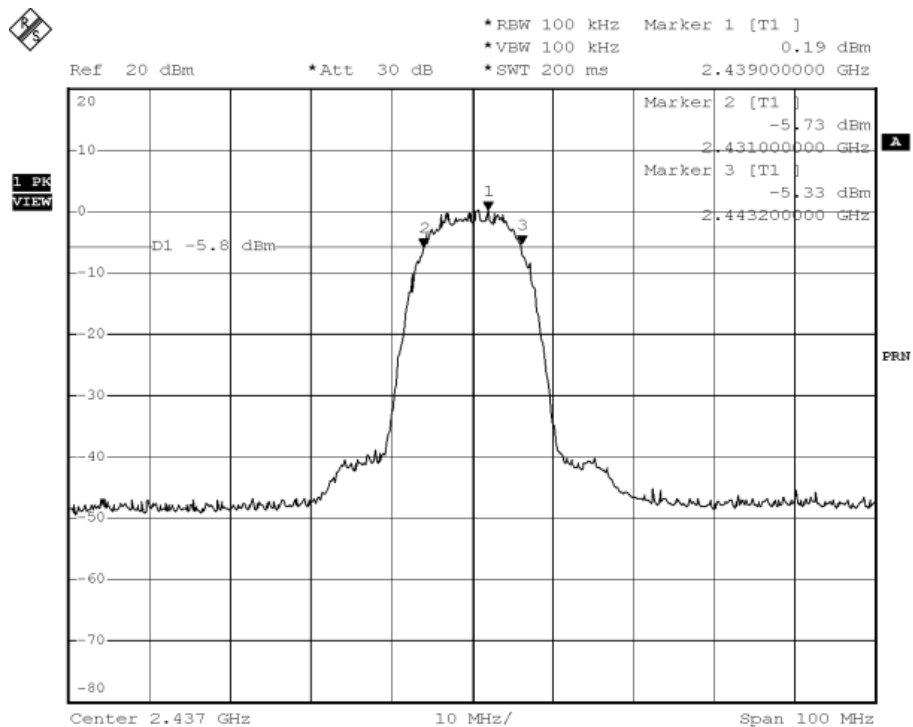
Figure Channel 1: 11Mbps



Product : Wireless LAN Card
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6 (11Mbps)	2437.00	12200	>500	Pass

Figure Channel 6: 11Mbps

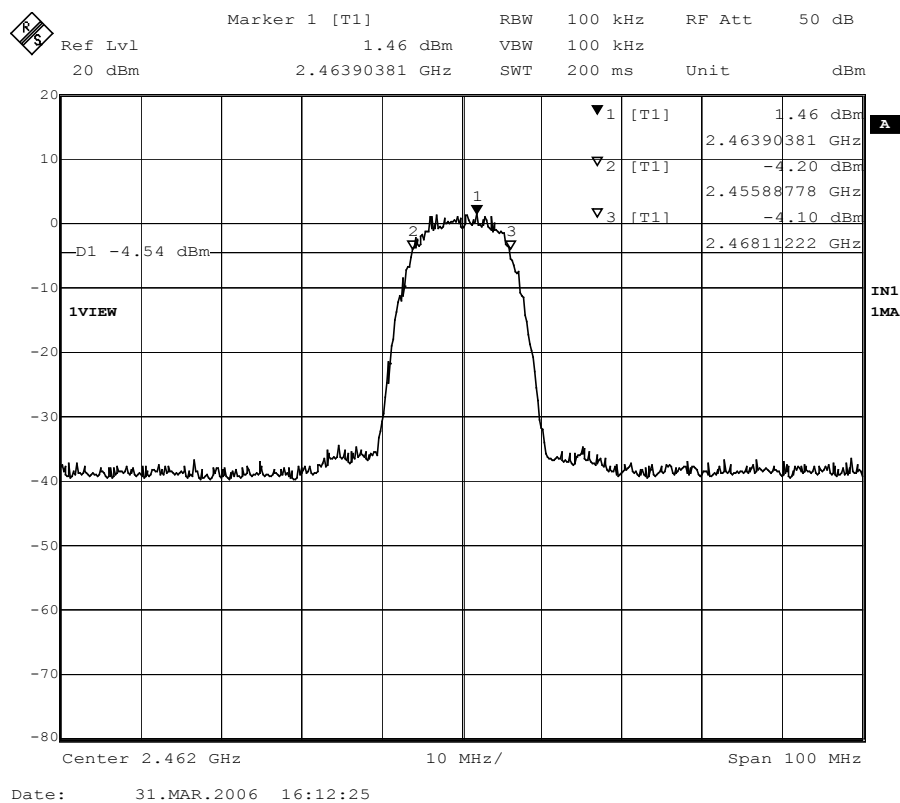


Date: 22.MAR.2006 20:28:22

Product : Wireless LAN Card
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11 (11Mbps)	2462.00	12225	>500	Pass

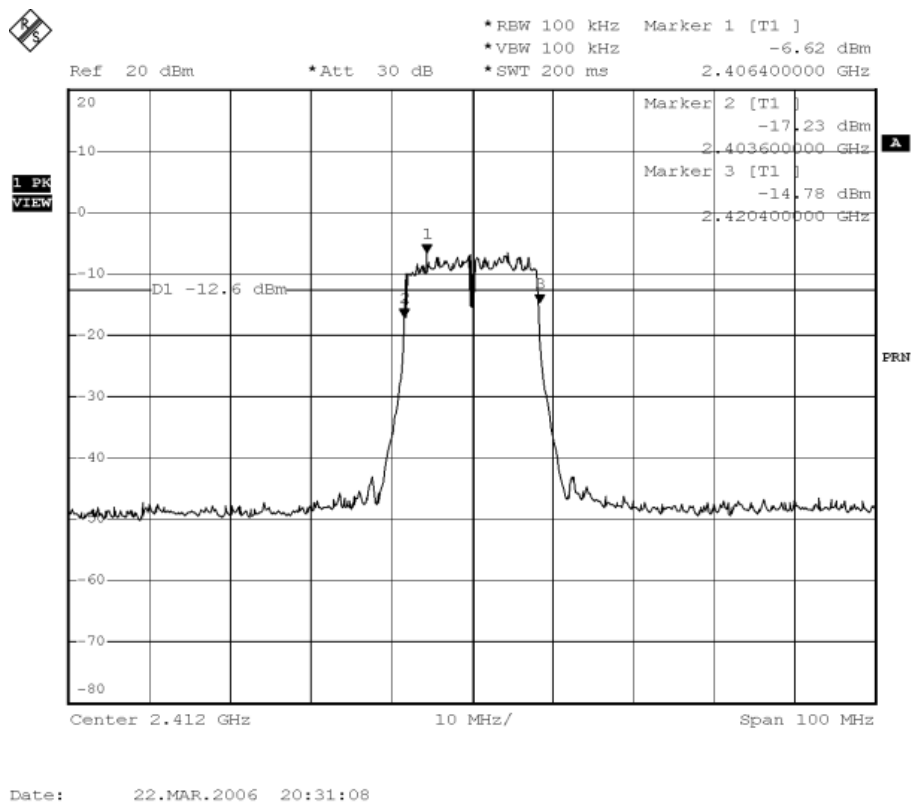
Figure Channel 11: 11Mbps



Product : Wireless LAN Card
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1) (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1 (54Mbps)	2412.00	16800	>500	Pass

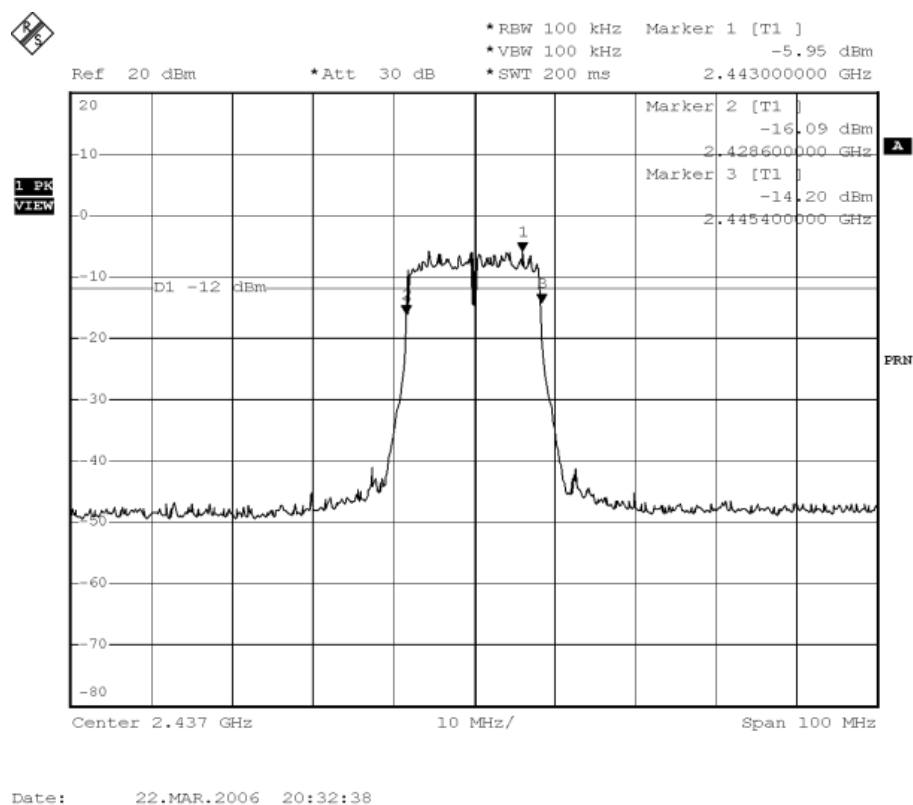
Figure Channel 1: 54Mbps



Product : Wireless LAN Card
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1) (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6 (54Mbps)	2437.00	16800	>500	Pass

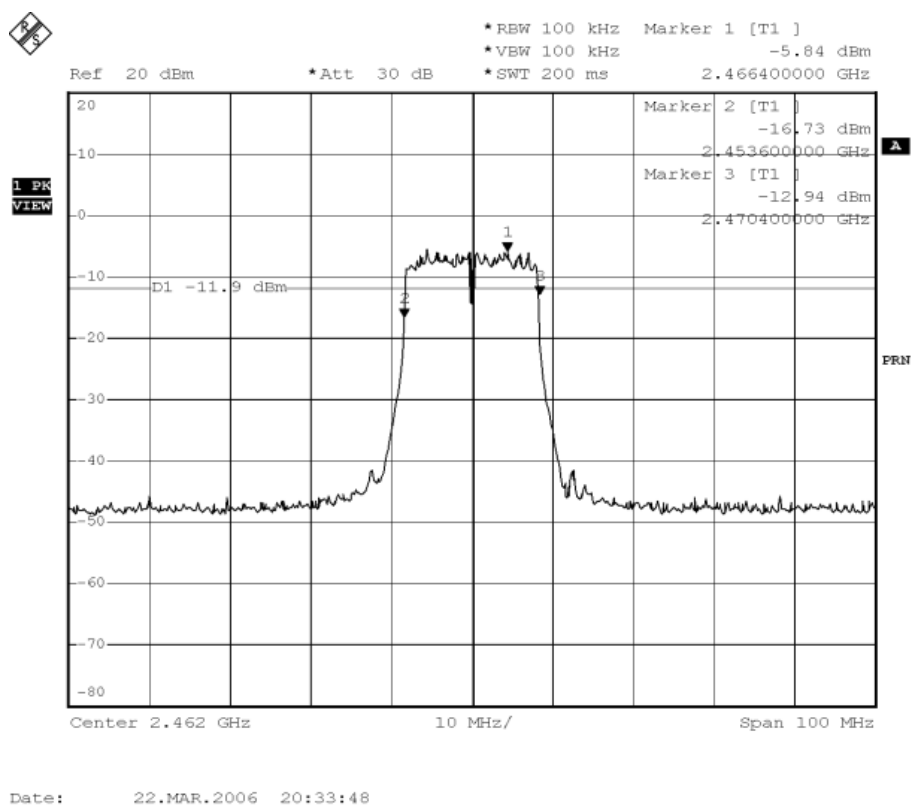
Figure Channel 6: 54Mbps



Product : Wireless LAN Card
 Test Item : Occupied Bandwidth Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1) (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11 (54Mbps)	2462.00	16800	>500	Pass

Figure Channel 11: 54Mbps



7. Power Density

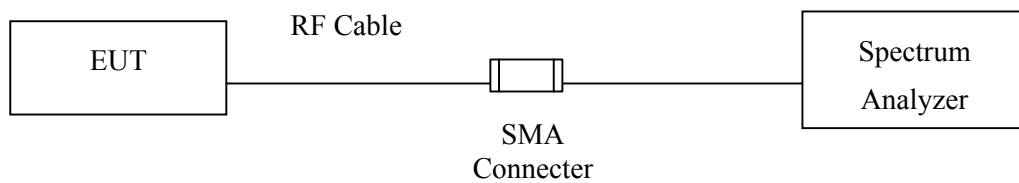
7.1. Test Equipment

The following test equipments are used during the radiated emission tests:

Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X Test Receiver	R & S	ESI 26 / 838786 / 004	May, 2005

Note: 1. All equipment upon which need to calibrated are with calibration period of 1 year.
2. Mark "X" test instruments are used to measure the final test results.

7.2. Test Setup



7.3. Limits

The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3kHz bandwidth.

7.4. Uncertainty

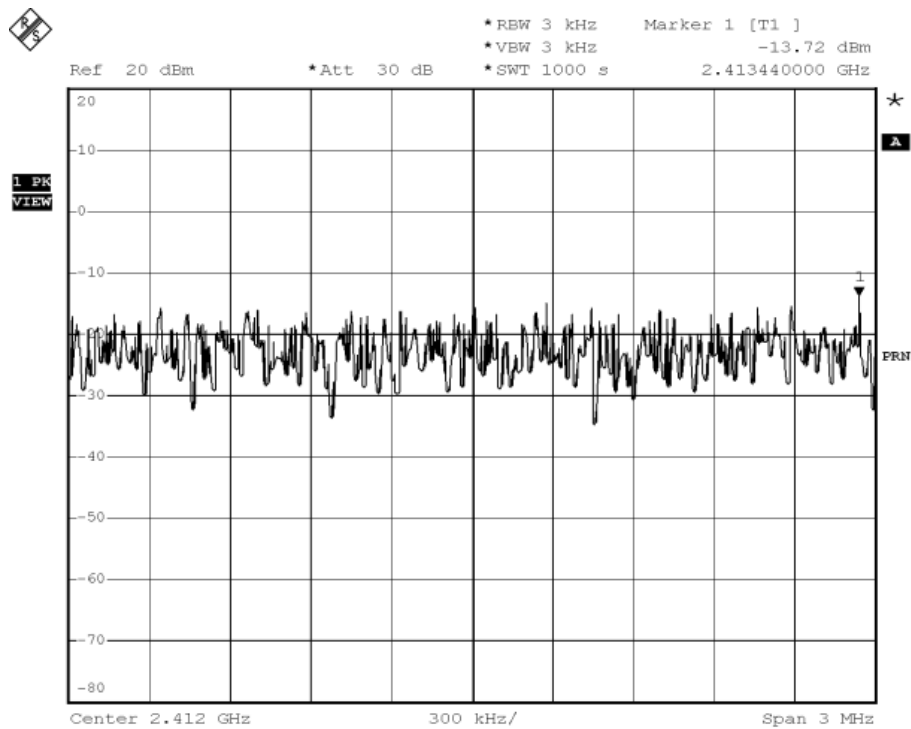
The measurement uncertainty is defined as ± 1.27 dB

7.5. Test Result of Power Density

Product : Wireless LAN Card
 Test Item : Power Density Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2412MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1 (11Mbps)	2412.00	-13.72	< 8dBm	Pass

Figure Channel 1: 11Mbps

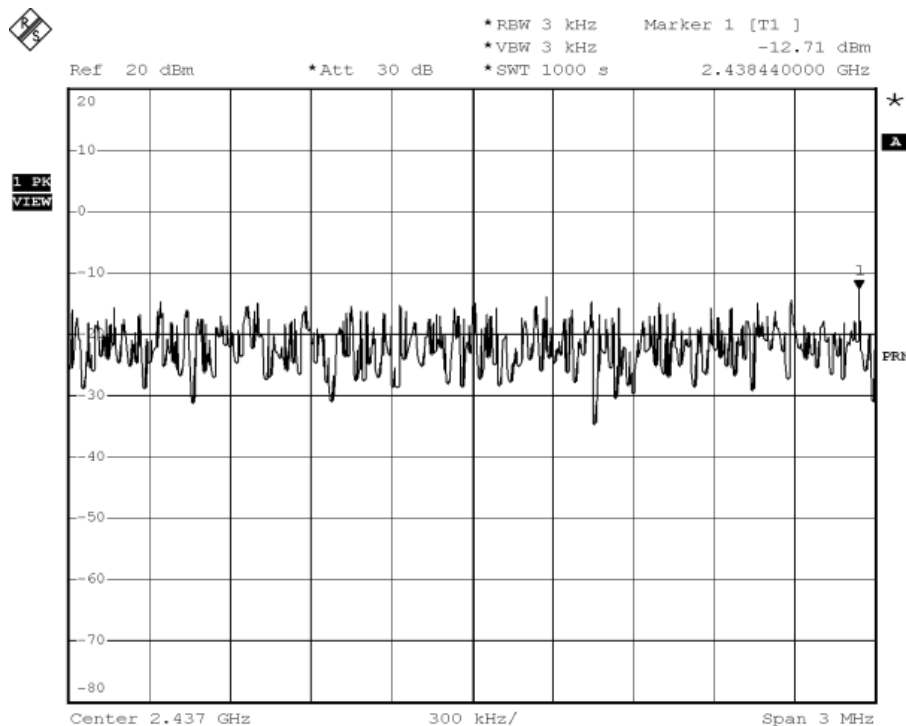


Date: 22.MAR.2006 21:18:16

Product : Wireless LAN Card
 Test Item : Power Density Data
 Test Site : No.3OATS
 Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6 (11Mbps)	2437.000	-12.71	< 8dBm	Pass

Figure Channel 6: 11Mbps

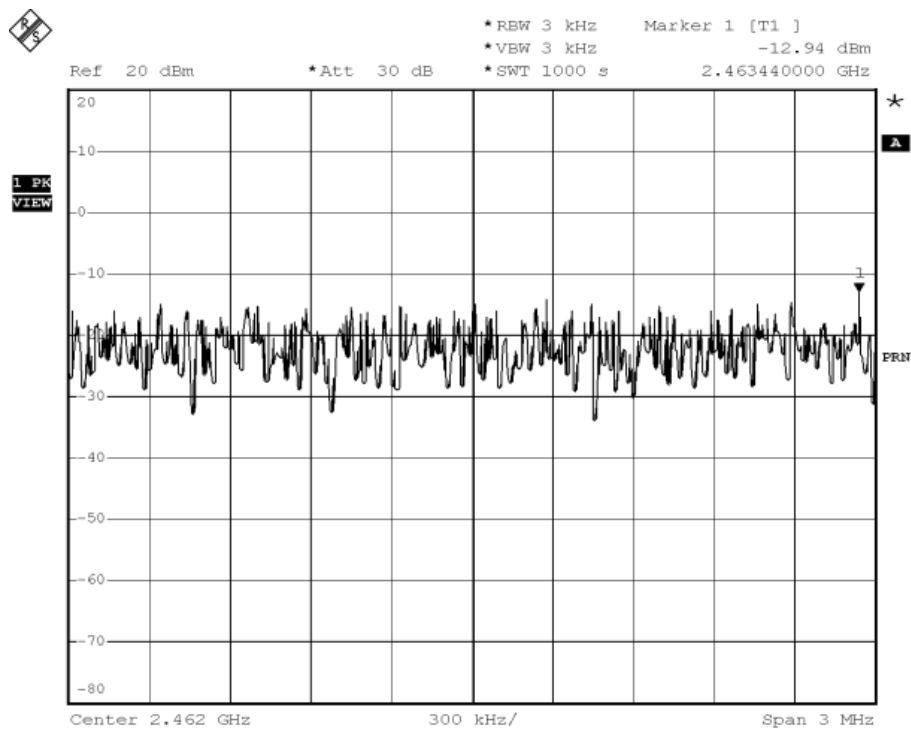


Date: 22.MAR.2006 21:27:18

Product : Wireless LAN Card
 Test Item : Power Density Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmitter 802.11b(Antenna 1) (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11 (11Mbps)	2462.00	-12.94	< 8dBm	Pass

Figure Channel 11: 11Mbps

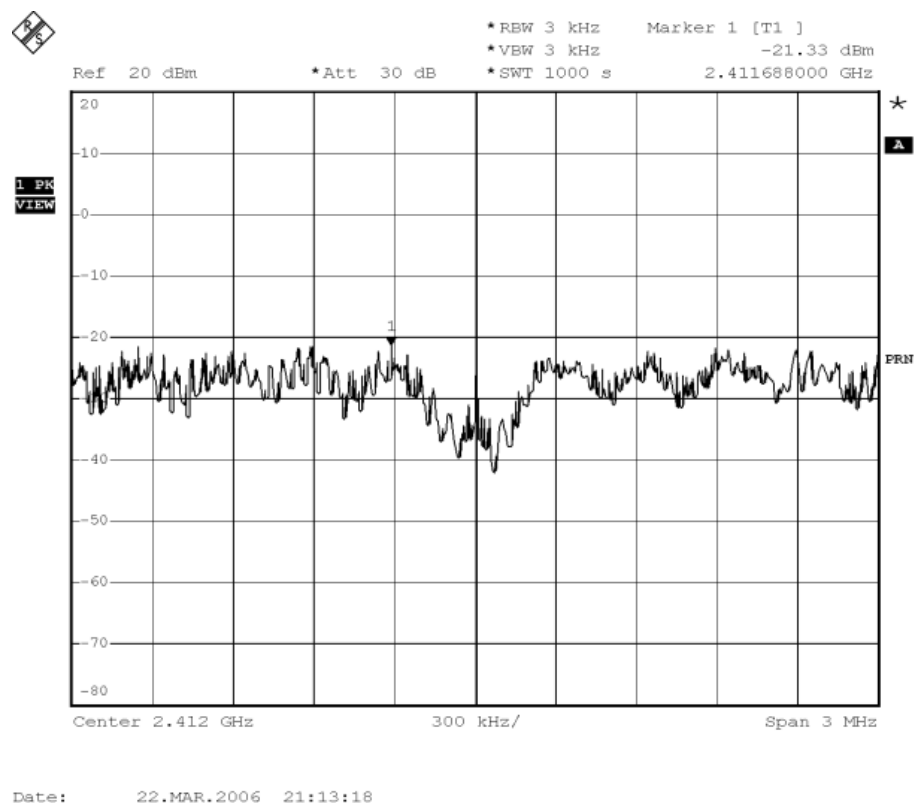


Date: 22.MAR.2006 21:32:10

Product : Wireless LAN Card
 Test Item : Power Density Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1) (2412MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1 (54Mbps)	2412.00	-21.33	< 8dBm	Pass

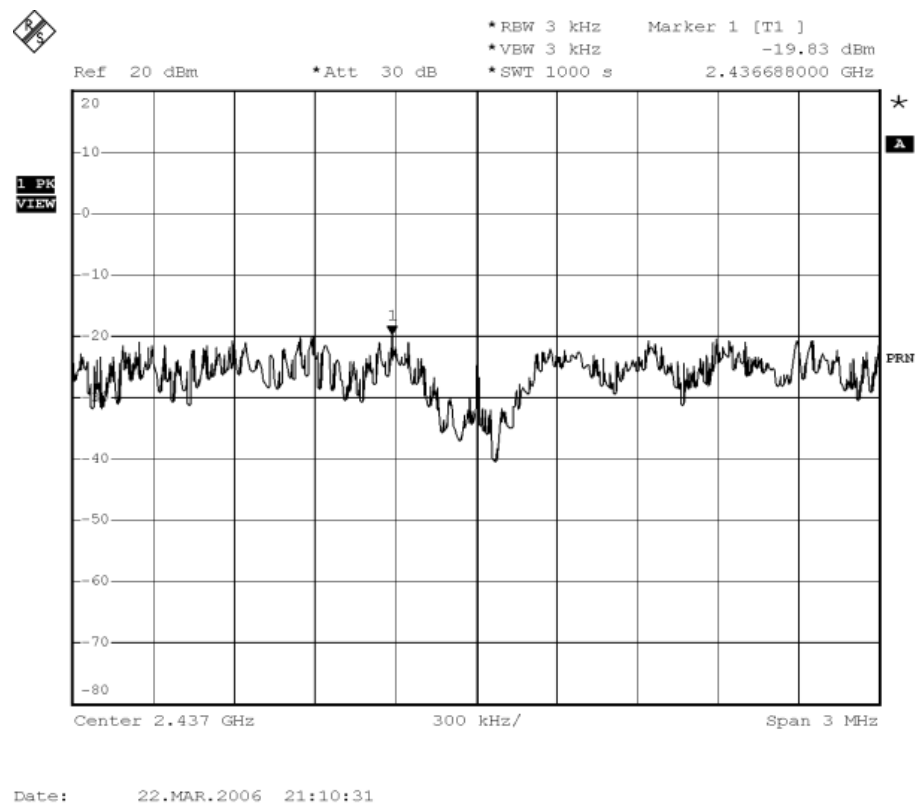
Figure Channel 1: 54Mbps



Product : Wireless LAN Card
 Test Item : Power Density Data
 Test Site : No.3OATS
 Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1) (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6 (54Mbps)	2437.000	-19.83	< 8dBm	Pass

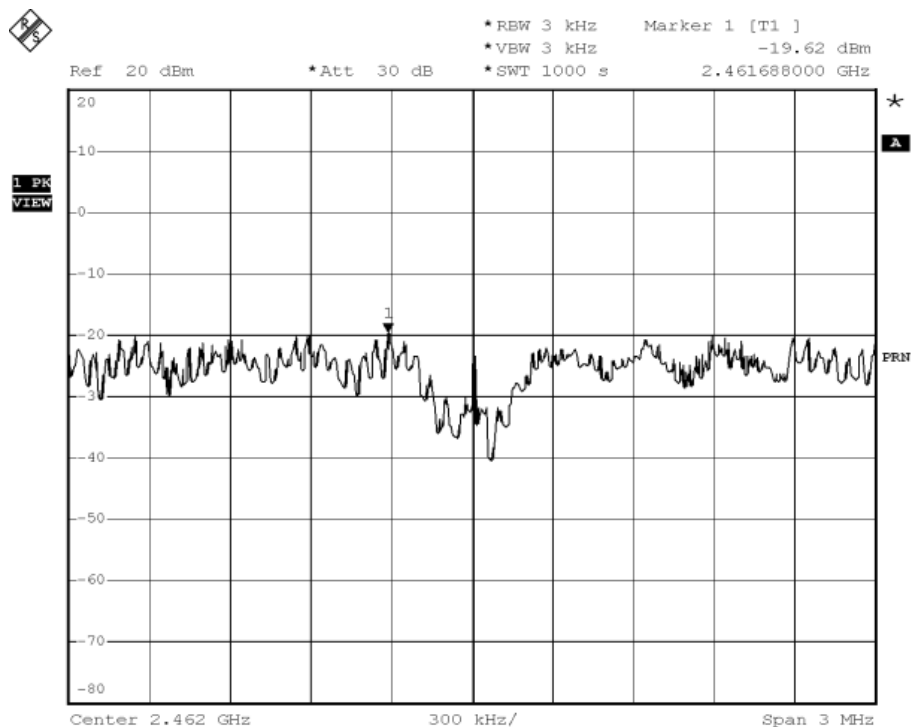
Figure Channel 6: 54Mbps



Product : Wireless LAN Card
 Test Item : Power Density Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmitter 802.11g(Anetenna 1) (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11 (54Mbps)	2462.00	-19.62	< 8dBm	Pass

Figure Channel 11: 54Mbps



Date: 22.MAR.2006 21:07:29

8. EMI Reduction Method During Compliance Testing

No modification was made during testing.

Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs