



Test Report

Product Name : Wireless LAN PC Card
Model No. : WEN-2012, DW-650C, WL-650C
FCC ID.: PSL-WEN-2012

Applicant : W-Link Systems Inc.
Address : 1F, No. 20, Park Ave. II, Science-Based Industrial
Park, Hsin-Chu, Taiwan, R.O.C.

Date of Receipt : June 29, 2001

Date of Test : July 25, 2001

Report No. : 017H009FI

The Test Results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of Quietek Corporation.

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

Test Report Certification

Test Date : July 25, 2001

Report No. : 017H009FI



Accredited by NIST (NVLAP)
NVLAP Lab Code: 200347-0

Product Name : Wireless LAN PC Card

Applicant : W-Link Systems Inc.

Address : 1F, No. 20, Park Ave. II, Science-Based
Industrial Park, Hsin-Chu, Taiwan, R.O.C.

Manufacturer : W-Link Systems Inc.

Model No. : WEN-2012, DW-650C, WL-650C

FCC ID. : PSL-WEN-2012

Rated Voltage : DC 5V

Trade Name : W-Link

Measurement Standard : FCC Part 15 Subpart C Paragraph 15.247

Measurement Procedure : ANSI C63.4:1992

Classification : Class B

Test Result : Complied



The Test Results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of Quietek Corporation.

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

Documented By : Zoe Lee
(Zoe Lee)

Tested By : Kenny Jwo
(Kenny Jwo)

Approved By : Kevin Wang
(Kevin Wang)

TABLE OF CONTENTS

Description	Page
1. GENERAL INFORMATION.....	5
1.1. EUT Description	5
1.2. Tested System Details	6
1.3. Configuration of tested System.....	7
1.4. EUT Exercise Software.....	7
1.5. Test Facility	8
2. Conducted Emission.....	9
2.1. Test Equipment List.....	9
2.2. Test Setup	9
2.3. Limits	9
2.4. Test Procedure.....	10
2.5. Test Result of Conducted Emission.....	11
3. Peak Power Output.....	13
3.1. Test Equipment.....	13
3.2. Test Setup	13
3.3. Test Condition.....	13
3.4. Minimum Standard.....	13
3.5. Test Result of Peak Power Output.....	14
4. RF Exposure Evaluation.....	15
4.1. Friis Formula	15
4.2. EUT Operation condition	15
4.3. Test Result of RF Exposure Evaluation	16
5. Radiated Emission.....	17
5.1. Test Equipment.....	17
5.2. Test Setup	17
5.3. Test Condition.....	18
5.4. Limits	18
5.5. Test Procedure.....	19
5.6. Test Result of Radiated Emission	20
5.7. Test Result of Band Edge	44
6. Occupied Bandwidth	46
6.1. Test Equipment.....	46
6.2. Test Setup	46
6.3. Test Condition.....	46
6.4. Standard Requirement.....	46
6.5. Test Result of Occupied Bandwidth	47
7. Transmitter Power Density.....	50
7.1. Test Equipment.....	50
7.2. Test Setup	50
7.3. Test Condition.....	50
7.4. Standard Requirement.....	50
7.5. Test Result of Transmitter Power Density.....	51

8.	Processing Gain	54
8.1.	Test Condition.....	54
8.2.	Minimum Standard.....	54
8.3.	Method of Measurement	54
8.4.	Calculation of Processing Gain:.....	54
8.5.	Test Result of Processing Gain	55
9.	EMI Reduction Method During Compliance Testing	56
10.	Attachment.....	57

Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	: Wireless LAN PC Card	
Trade Name	: W-Link	
FCC ID.	: PSL-WEN-2012	
Model No.	: WEN-2012, DW-650C, WL-650C	
Frequency Range	: 2412MHz to 2462MHz	
Channel Number	: 11	
Frequency of Each Channel	: Channel 01: 2412MHz	Channel 07: 2442MHz
(Working Frequency)	Channel 02: 2417 MHz	Channel 08: 2447MHz
	Channel 03: 2422 MHz	Channel 09: 2452MHz
	Channel 04: 2427MHz	Channel 10: 2457MHz
	Channel 05: 2432MHz	Channel 11: 2462MHz
	Channel 06: 2437MHz	
Type of Modulation	: Direct Sequence Spread Spectrum	
Channel Control	: Software	

1.1.2 Operation Description

The EUT is Wireless LAN PC Card. Four kind of transmission speed 1,2,5.5 and 11Mbps were provide by this RF module. The modulation of RF carrier are DQPSK, DBPSK and CCK. A extender was used during the test to prove the PCMCIA card can pass all the regulation alone Self-shielding and on board power regulator were built in the EUT.

Direct sequence spread spectrum modulation was adopted by this module. Two dipole antenna provide diversity function to improve the receiving function of module. Data can be transmitted by the radio signal connect to Internet or local network.

Note:

1. 4 kinds of transmission speed 1, 2, 5.5 and 11Mbps were selected as test mode.
2. These tests were 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.
3. The receiver part was tested in report "017H009F" subjected to Part 15 paragraph 15.5.

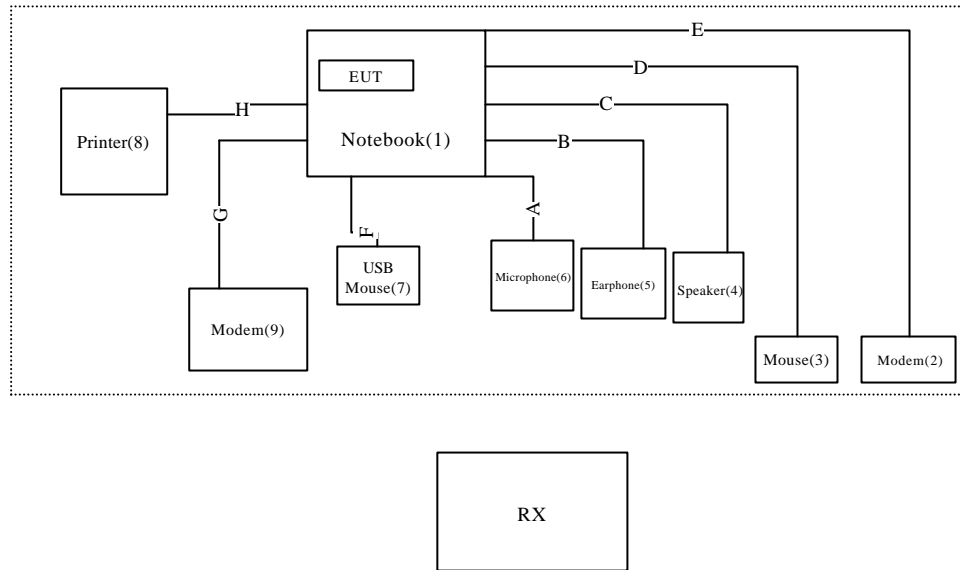
1.2. Tested System Details

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.	Power Cord
(1)	Notebook	Acer	370PCX	TZ65795	--
(2)	Monitor	HITACHI	CM752ET-311	T8E004443	Shielded, 1.8m
(3)	Mouse	IBM	M-SAU-IBM6	23-022675	
(4)	Speaker	JS	J-009	97-C-019799-T	
(5)	Earphone	SONY	MDR-354	N/A	
(6)	Microphone	AIWA	CD-8000	N/A	
(7)	USB Mouse	Logitech	M-UE55	LTC93813273	
(8)	Printer	HP	C2642A	MY75J1D1D0	Non-Shielded, 0.7m
(9)	Modem	ACEEX	1414	980033036	

	Signal Cable Type	Signal cable Description
A.	Microphone Cable	Non-Shielded, 0.8m
B.	Earphone Cable	Non-Shielded, 0.8m
C.	Speaker Cable	Non-Shielded, 0.5m
D.	PS2 Cable	Non-Shielded, 0.5m
E.	VGA Cable	Non-Shielded, 1.2m, two ferrite cores bonded
F.	USB Cable	Non-Shielded, 0.5m
G.	Modem Cable	Non-Shielded, 1.5m
H.	Printer Cable	Non-Shielded, 1.5m

1.3. Configuration of tested System



1.4. EUT Exercise Software

- 1.4.1 Setup the EUT and simulators as shown on 1.3.
- 1.4.2 Turn on the power of all equipment.
- 1.4.3 Notebook run “IE”.
- 1.4.4 <http://192.168.2.1/test.htm>
“Intial Command”
- 1.4.5 Setup the test channel.
- 1.4.6 Select the TX Data.
- 1.4.7 Modulation—“On”, Power Gain Adjust--:2”
- 1.4.8 Repeat the above procedure 1.4.6 to 1.4.7

1.5. 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: November 3, 1998 File on
 Federal Communications Commission
 FCC Engineering Laboratory
 7435 Oakland Mills Road
 Columbia, MD 21046
 Reference 31040/SIT1300F2
 September 30, 1998 Accreditation on NVLAP
 NVLAP Lab Code: 200347-0



Site Name: Quietek Corporation

Site Address: N0.75-1, Wang-Yeh Valley, Yung-Hsing,
 Chung-Lin, Hsin-Chu County,
 Taiwa, R.O.C.

2. Conducted Emission

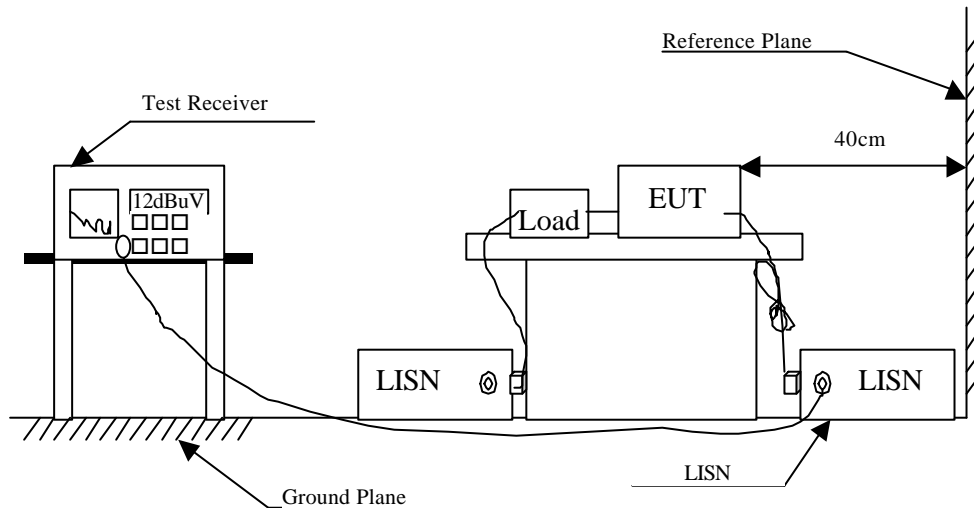
2.1. Test Equipment List

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, 2001	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 2001	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 2001	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	N/A	
5	N0.2 Shielded Room			N/A	

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Paragraph 15.207 (dBuV)		
Frequency MHz	Limits	
	uV	dBuV
0.45 - 30	250	48.0

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 C63.4:1992 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.45MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Test Result of Conducted Emission

Product : Wireless LAN PC Card
 Test Item : Conducted Emission Test
 Test Mode : Normal Operation (1Mbps)

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Measurement Level dBuV	Limits dBuV
Line 1					
Quasi-Peak:					
0.666	0.08	0.10	25.49	25.67	48.00
0.759	0.09	0.10	35.21	35.40	48.00
1.248	0.11	0.11	23.52	23.74	48.00
4.444	0.19	0.16	34.42	34.78	48.00
9.677	0.27	0.20	30.12	30.59	48.00
* 24.281	0.38	0.52	38.42	39.32	48.00

Line 2					
Quasi-Peak:					
0.468	0.06	0.10	38.73	38.89	48.00
1.919	0.14	0.13	38.51	38.78	48.00
2.984	0.17	0.15	27.14	27.46	48.00
4.442	0.19	0.16	33.38	33.74	48.00
9.484	0.27	0.20	29.53	30.00	48.00
* 24.284	0.38	0.52	38.74	39.64	48.00

Remarks :

1. “ * ” means that this data is the worst emission level.

Product : Wireless LAN PC Card
 Test Item : Conducted Emission Test
 Test Mode : Normal Operation (11Mbps)

Frequency MHz	Cable Loss dB	LISN Factor dB	Reading Level dBuV	Measurement Level dBuV	Limits dBuV
------------------	---------------------	----------------------	-----------------------	---------------------------	----------------

Line 1

Quasi-Peak:

0.462	0.06	0.10	34.58	34.74	48.00
3.980	0.19	0.16	33.30	33.65	48.00
4.643	0.20	0.17	35.00	35.36	48.00
7.564	0.25	0.19	32.00	32.43	48.00
10.283	0.28	0.21	29.10	29.59	48.00
* 24.465	0.38	0.53	35.28	36.18	48.00

Line 2

Quasi-Peak:

0.530	0.07	0.10	31.00	31.17	48.00
0.730	0.08	0.10	27.30	27.48	48.00
1.259	0.11	0.11	27.58	27.80	48.00
2.055	0.15	0.13	27.32	27.60	48.00
4.311	0.19	0.16	34.46	34.81	48.00
* 24.409	0.38	0.53	35.72	36.62	48.00

Remarks :

1. “ * ” means that this data is the worst emission level.

3. Peak Power Output

3.1. Test Equipment

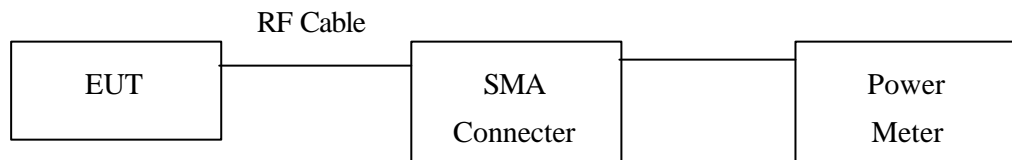
The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	Advantest	R3272 / 72421194	May, 2001
X	Power Meter	HP	EPM-441A	May, 2001

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.

3.2. Test Setup

Conduction Power Measurement



3.3. Test Condition

Standard Temperature and Humidity, Standard Test Voltage

3.4. Minimum Standard

The maximum peak power shall be less 1 Watt.

3.5. Test Result of Peak Power Output

Product : Wireless LAN PC Card
 Test Item : Peak Power Output Data
 Test Site : No.1 OATS
 Test Mode : Normal Operation

Data Speed: 1Mbps

Channel No.	Frequency(MHz)	Measurement	Required Limit	Result
1	2411	9.01dBm	1Watt= 30 dBm	Pass
6	2438	9.81 dBm	1Watt= 30 dBm	Pass
11	2461	9.24 dBm	1Watt= 30 dBm	Pass

Data Speed: 2Mbps

Channel No.	Frequency(MHz)	Measurement	Required Limit	Result
1	2411	9.06dBm	1Watt= 30 dBm	Pass
6	2438	10.06dBm	1Watt= 30 dBm	Pass
11	2461	9.6 dBm	1Watt= 30 dBm	Pass

Data Speed: 5.5Mbps

Channel No.	Frequency(MHz)	Measurement	Required Limit	Result
1	2411	9.28dBm	1Watt= 30 dBm	Pass
6	2438	10.13 dBm	1Watt= 30 dBm	Pass
11	2461	9.75 dBm	1Watt= 30 dBm	Pass

Data Speed: 11Mbps

Channel No.	Frequency(MHz)	Measurement	Required Limit	Result
1	2411	9.48dBm	1Watt= 30 dBm	Pass
6	2438	10.15 dBm	1Watt= 30 dBm	Pass
11	2461	9.36dBm	1Watt= 30 dBm	Pass

4. RF Exposure Evaluation

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500	--	--	F/1500	6
1500-100,000	--	--	1	30

F= Frequency in MHz

4.1. Friis Formula

$$\text{Friis transmission formula: } P_d = (P_{out} * G) / (4 * \pi * r^2)$$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

4.2. EUT Operation condition

A software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

4.3. Test Result of RF Exposure Evaluation

Product : Wireless LAN PC Card
 Test Item : RF Exposure Evaluation Data
 Test Site : No.1 OATS
 Test Mode : Normal Operation

4.3.1 Antenna Gain

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.6dBi or 1.45in linear scale.

4.3.2 Output Power Into Antenna & RF Exposure Evaluation Distance

Channel	Channel Frequency (MHz)	Output Power to Antenna (dBm)	Minimum Allowable Distance @From Skin(cm)
1 (1Mbps)	2412	9.01	0.71
1 (11Mbps)	2412	9.48	0.75
6 (1Mbps)	2437	9.81	0.78
6 (11Mbps)	2437	10.15	0.81
11 (1Mbps)	2462	9.24	0.73
11 (11Mbps)	2462	9.36	0.74

The distance r (4th column) calculated from the Friis transmission formula is far shorter than 20 cm separation requirement. So, RF exposure limit warning or SAR test are not required.

4. Radiated Emission

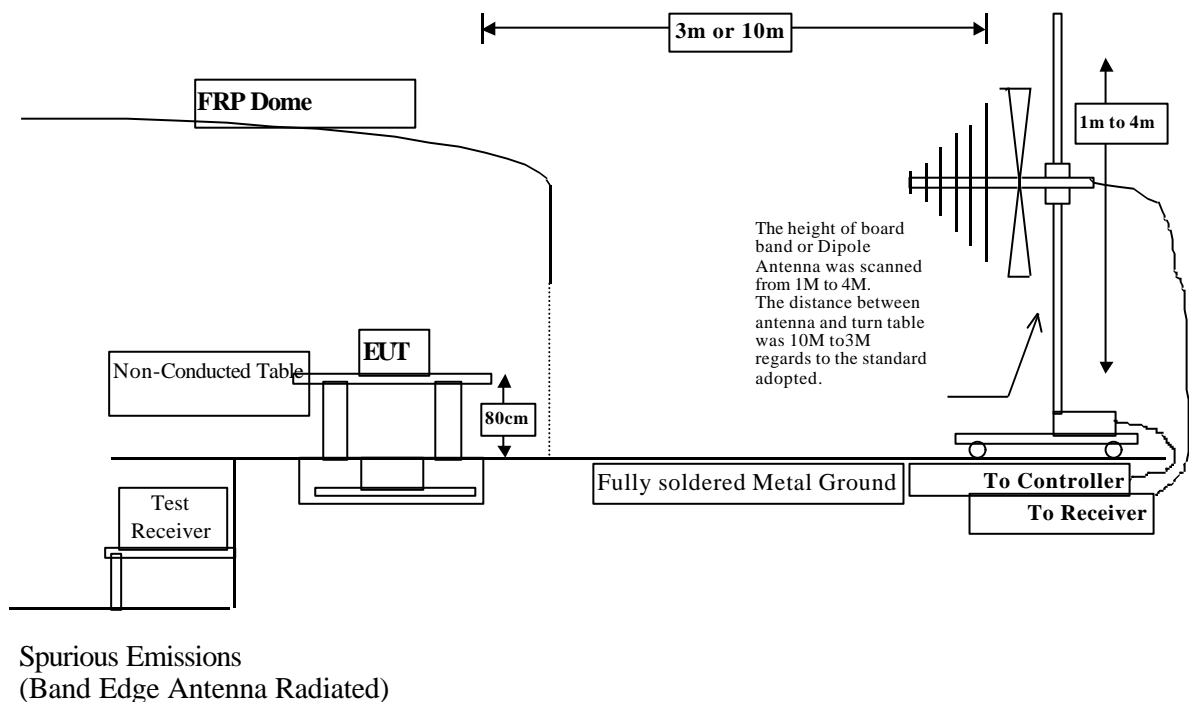
4.1. Test Equipment

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

Test Site	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Site # 1	X Test Receiver	R & S	ESCS 30 / 825442/14	May, 2001
	Spectrum Analyzer	Advantest	R3261C / 71720140	May, 2001
	Pre-Amplifier	HP	8447D/3307A01812	May, 2001
	X Bilog Antenna	Chase	CBL6112B / 12452	Sep., 2000
	X Horn Antenna	EM	EM6917 / 103325	May, 2001
Site # 2	X Test Receiver	R & S	ESCS 30 / 825442/17	May, 2001
	Spectrum Analyzer	Advantest	R3261C / 71720609	May, 2001
	Pre-Amplifier	HP	8447D/3307A01814	May, 2001
	X Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2000
	X Horn Antenna	EM	EM6917 / 103325	May, 2001

- Note:
1. All equipments that need to calibrate are with calibration period of 1 year.
 2. Mark "X" test instruments are used to measure the final test results.

4.2. Test Setup



4.3. Test Condition

Standard Temperature and Humidity, Standard Test Voltage

4.4. Limits

➤ General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

Frequency MHz	50dB below of the fundamental (dBuV/m @3m)	15.209 Limits (dBuV/m @3m)	General Radiated Limits (dBuV/m @3m)
30-88	40	40	40
88-216	43.5	43.5	43.5
216-960	44	46	46
Above 960	44	54	54

- Remarks :
1. RF Line Voltage (dBuV) = 20 log RF Line 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.

4.5. 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 C63.4:1992 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** of working frequency of the transmitter (EUT) is checked.

4.6. Test Result of Radiated Emission

Product : Wireless LAN PC Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 1 (1Mbps)

Freq.	Cable	Probe		PreAMP		Reading		Measurement		Margin		Limit
		Loss	Factor	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	dB	dBuV/m
MHz		dB	dB/m	dB	dBuV	dBuV/m		dB	dBuV/m			
Peak Detector (Horizontal)												
4823.949	6.27	33.50	34.77	43.09	48.09	25.91	74.00					
7236.400	8.32	36.24	34.90	43.45	< 53.11	20.89	74.00					
9648.951	10.18	37.43	35.10	44.08	< 56.59	17.41	74.00					
Peak Detector (Vertical)												
4823.849	6.27	33.50	34.77	48.36	53.36	20.64	74.00					
7236.901	8.32	36.24	34.90	43.38	< 53.04	20.96	74.00					
9649.251	10.18	37.43	35.10	44.38	< 56.89	17.11	74.00					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Emission Level = Reading Level + Probe Factor-PreAMP + Cable loss
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Wireless LAN PC Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 1 (2Mbps)

Freq.	Cable	Probe		PreAMP		Reading		Measurement		Margin		Limit		
		Loss	Factor	Level	Level	dB	dBuV	dBuV/m	dB	dBuV/m	dB	dBuV/m	dB	dBuV/m
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	dB	dBuV/m	dB	dBuV/m	dB	dBuV/m
Peak Detector (Horizontal)														
4825.002	6.27	33.50	34.77	43.79	48.79	25.21	74.00							
7237.603	8.32	36.24	34.90	44.00	< 53.66	20.34	74.00							
9648.901	10.18	37.43	35.10	45.15	< 57.66	16.34	74.00							
Peak Detector (Vertical)														
4824.100	6.27	33.50	34.77	47.42	52.42	21.58	74.00							
7238.004	8.32	36.24	34.90	44.60	< 54.26	19.74	74.00							
9649.102	10.18	37.43	35.10	45.28	< 57.79	16.21	74.00							

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Emission Level = Reading Level + Probe Factor-PreAMP + Cable loss
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Wireless LAN PC Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 1 (5.5Mbps)

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Measurement	Margin	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Peak Detector (Horizontal)

4823.849	6.27	33.50	34.77	45.03	50.03	23.97	74.00
7235.549	8.32	36.24	34.90	44.32	< 53.98	20.02	74.00
9647.489	10.17	37.43	35.10	44.53	< 57.02	16.98	74.00

Peak Detector (Vertical)

4824.150	6.27	33.50	34.77	47.64	52.64	21.36	74.00
7236.350	8.32	36.24	34.90	44.74	< 54.40	19.60	74.00
9649.452	10.18	37.43	35.10	46.01	< 58.52	15.48	74.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Emission Level = Reading Level + Probe Factor-PreAMP + Cable loss
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Wireless LAN PC Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 1 (11Mbps)

Freq.	Cable	Probe		PreAMP		Reading		Measurement		Margin		Limit	
		Loss	Factor	Level	dB	dBuV	dBuV/m	dB	dBuV/m	dB	dBuV/m		
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	dB	dBuV/m	dB	dBuV/m	dBuV/m
Peak Detector (Horizontal)													
4824.768	6.27	33.50	34.77	43.22	48.22	25.78	74.00						
7236.350	8.32	36.24	34.90	43.47	< 53.13	20.87	74.00						
9647.248	10.17	37.43	35.10	44.76	< 57.25	16.75	74.00						
Peak Detector (Vertical)													
4824.150	6.27	33.50	34.77	48.40	53.40	20.60	74.00						
7236.050	8.32	36.24	34.90	43.51	< 53.17	20.83	74.00						
9648.350	10.18	37.43	35.10	44.60	< 57.11	16.89	74.00						

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Emission Level = Reading Level + Probe Factor-PreAMP + Cable loss
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Wireless LAN PC Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 6 (1Mbps)

Freq.	Cable Loss	Probe Factor		PreAMP Reading		Measurement Level		Margin	Limit
		dB	dB/m	dB	dBuV	dBuV/m	dB		
Peak Detector (Horizontal)									
4874.050	6.32	33.56	34.75	42.60	47.73	26.27	74.00		
7311.350	8.38	36.31	34.90	43.38	< 53.16	20.84	74.00		
9747.549	10.25	37.45	35.10	44.55	< 57.15	16.85	74.00		
Peak Detector (Vertical)									
4874.299	6.32	33.56	34.75	45.80	50.93	23.07	74.00		
7310.698	8.38	36.31	34.90	44.56	< 54.34	19.66	74.00		
9748.391	10.25	37.45	35.10	45.00	< 57.60	16.40	74.00		

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Emission Level = Reading Level + Probe Factor-PreAMP + Cable loss
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Wireless LAN PC Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 6 (2Mbps)

Freq.	Cable Loss	Probe Factor		PreAMP Reading		Measurement Margin		Limit
		dB	dB/m	dB	dBuV	dB	dBuV/m	
Peak Detector (Horizontal)								
4875.302	6.32	33.56	34.75	44.25	49.38	24.62	74.00	
7312.953	8.38	36.31	34.90	44.14	< 53.92	20.08	74.00	
9752.107	10.25	37.45	35.10	44.94	< 57.54	16.46	74.00	
Peak Detector (Vertical)								
4873.400	6.32	33.56	34.75	47.07	52.20	21.80	74.00	
7312.753	8.38	36.31	34.90	44.21	< 53.99	20.01	74.00	
9751.707	10.25	37.45	35.10	44.81	< 57.41	16.59	74.00	

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Emission Level = Reading Level + Probe Factor-PreAMP + Cable loss
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Wireless LAN PC Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 16(5.5Mbps)

Freq.	Cable	Probe		PreAMP		Reading		Measurement		Margin		Limit
		Loss	Factor	Level	Level	dB	dBuV	dBuV/m	dB	dBuV/m		
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	dB	dBuV/m		
Peak Detector (Horizontal)												
4874.743	6.32	33.56	34.75	44.67	49.80	24.20	74.00					
7312.272	8.38	36.31	34.90	44.19	< 53.97	20.03	74.00					
9749.801	10.25	37.45	35.10	45.88	< 58.48	15.52	74.00					
Peak Detector (Vertical)												
4873.919	6.32	33.56	34.75	47.63	52.76	21.24	74.00					
7312.272	8.38	36.31	34.90	43.90	< 53.68	20.32	74.00					
9749.409	10.25	37.45	35.10	44.31	< 56.91	17.09	74.00					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Emission Level = Reading Level + Probe Factor-PreAMP + Cable loss
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Wireless LAN PC Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 6 (11Mbps)

Freq.	Cable Loss	Probe Factor	PreAMP	Reading	Measurement Level	Margin	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m
Peak Detector (Horizontal)							
4873.849	6.32	33.56	34.75	43.21	48.34	25.66	74.00
7310.448	8.38	36.31	34.90	43.58	< 53.36	20.64	74.00
9747.749	10.25	37.45	35.10	44.07	< 56.67	17.33	74.00
Peak Detector (Vertical)							
4873.749	6.32	33.56	34.75	46.79	51.92	22.08	74.00
7311.050	8.38	36.31	34.90	43.77	< 53.55	20.45	74.00
9748.651	10.25	37.45	35.10	44.35	< 56.95	17.05	74.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Emission Level = Reading Level + Probe Factor-PreAMP + Cable loss
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Wireless LAN PC Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 11 (1Mbps)

Freq.	Cable	Loss Factor		Level		Margin	Limit
		dB	dB/m	dB	dBuV		

Peak Detector (Horizontal)

4924.049	6.37	33.62	34.73	42.96	48.22	25.78	74.00
7387.790	8.45	36.39	34.90	44.28	< 54.22	19.78	74.00
9851.255	10.33	37.47	35.10	44.24	< 56.94	17.06	74.00

Peak Detector (Vertical)

4924.250	6.37	33.62	34.73	46.37	51.63	22.37	74.00
7388.203	8.45	36.39	34.90	44.02	< 53.96	20.04	74.00
9852.457	10.33	37.47	35.10	44.12	< 56.82	17.18	74.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Emission Level = Reading Level + Probe Factor-PreAMP + Cable loss
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Wireless LAN PC Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 11 (2Mbps)

Freq.	Cable	Probe		PreAMP		Reading		Measurement		Margin		Limit	
		Loss	Factor	Level	dB	dBuV	dBuV/m	dB	dBuV/m	dB	dBuV/m		
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	dB	dBuV/m	dB	dBuV/m	dBuV/m
Peak Detector (Horizontal)													
4925.602	6.37	33.62	34.73	43.38	48.64	25.36	74.00						
7387.651	8.45	36.39	34.90	44.95	< 54.89	19.11	74.00						
9851.203	10.33	37.47	35.10	45.53	< 58.23	15.77	74.00						
Peak Detector (Vertical)													
4923.999	6.37	33.62	34.73	46.83	52.09	21.91	74.00						
7388.152	8.45	36.39	34.90	44.27	< 54.21	19.79	74.00						
9850.702	10.33	37.47	35.10	45.35	< 58.05	15.95	74.00						

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Emission Level = Reading Level + Probe Factor-PreAMP + Cable loss
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Wireless LAN PC Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 11 (5.5Mbps)

Freq.	Cable	Probe		PreAMP		Reading		Measurement		Margin		Limit	
		Loss	Factor	Level	dB	dBuV	dBuV/m	dB	dBuV/m	dB	dBuV/m		
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	dB	dBuV/m	dB	dBuV/m	dBuV/m
Peak Detector (Horizontal)													
4924.588	6.37	33.62	34.73	44.05	49.31	24.69	74.00						
7386.196	8.45	36.39	34.90	45.53	< 55.47	18.53	74.00						
9848.824	10.33	37.47	35.10	44.61	< 57.31	16.69	74.00						
Peak Detector (Vertical)													
4924.039	6.37	33.62	34.73	48.52	53.78	20.22	74.00						
7386.196	8.45	36.39	34.90	43.82	< 53.76	20.24	74.00						
9848.902	10.33	37.47	35.10	45.04	< 57.74	16.26	74.00						

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Emission Level = Reading Level + Probe Factor-PreAMP + Cable loss
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Wireless LAN PC Card
 Test Item : Harmonic Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 11 (11Mbps)

Freq.	Cable	Probe		PreAMP		Reading		Measurement		Margin		Limit
		Loss	Factor	Level	Level	dB	dBuV	dBuV/m	dB	dBuV/m		
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	dB	dBuV/m		
Peak Detector (Horizontal)												
4924.350	6.37	33.62	34.73	43.06	48.32	25.68	74.00					
7386.751	8.45	36.39	34.90	44.70	< 54.64	19.36	74.00					
9847.348	10.33	37.47	35.10	44.46	< 57.16	16.84	74.00					
Peak Detector (Vertical)												
4924.150	6.37	33.62	34.73	47.23	52.49	21.51	74.00					
7385.549	8.45	36.39	34.90	43.28	< 53.22	20.78	74.00					
9848.551	10.33	37.47	35.10	43.72	< 56.42	17.58	74.00					

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. Emission Level = Reading Level + Probe Factor-PreAMP + Cable loss
3. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Wireless LAN PC Card
 Test Item : General Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 1 (1Mbps)

Freq.	Cable	Probe		PreAMP	Reading	Measurement		Margin	Limit
		Loss	Factor			Level	Level		
MHz		dB	dB/m		dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal:

*	132.820	1.53	11.82	26.89	55.60	42.06	1.44	43.50
	264.740	2.21	12.33	26.94	55.20	42.80	3.20	46.00
	299.660	2.39	12.53	26.95	53.20	41.17	4.83	46.00
	330.700	2.55	13.66	26.90	53.20	42.51	3.49	46.00
	596.480	3.92	15.93	26.48	49.80	43.16	2.84	46.00
	728.400	4.60	16.92	26.28	48.60	43.84	2.16	46.00

Vertical:

	84.320	1.28	9.43	26.87	49.00	32.84	7.16	40.00
	132.820	1.53	11.82	26.89	47.60	34.06	9.44	43.50
	299.660	2.39	12.53	26.95	50.60	38.57	7.43	46.00
*	596.480	3.92	15.93	26.48	50.00	43.36	2.64	46.00
	727.430	4.59	17.11	26.28	44.60	40.03	5.97	46.00
	745.860	4.69	17.29	26.25	42.80	38.53	7.47	46.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor-PreAMP + Cable loss

Product : Wireless LAN PC Card
 Test Item : General Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 1 (2Mbps)

Freq.	Cable	Probe PreAMP		Reading Measurement		Margin Limit	
		Loss	Factor	Level			
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB dBuV/m
Horizontal:							
132.820	1.53	11.82	26.89	54.00	40.46	3.04	43.50
263.770	2.21	12.41	26.94	56.20	43.88	2.12	46.00
299.660	2.39	12.53	26.95	52.00	39.97	6.03	46.00
* 595.510	3.91	15.93	26.49	51.00	44.36	1.64	46.00
727.430	4.59	17.11	26.28	48.40	43.83	2.17	46.00
746.830	4.69	17.19	26.25	41.80	37.44	8.56	46.00
Vertical:							
132.820	1.53	11.82	26.89	48.40	34.86	8.64	43.50
263.770	2.21	12.41	26.94	50.60	38.28	7.72	46.00
299.660	2.39	12.53	26.95	51.00	38.97	7.03	46.00
330.700	2.55	13.66	26.90	52.00	41.31	4.69	46.00
* 595.510	3.91	15.93	26.49	51.00	44.36	1.64	46.00
727.430	4.59	17.11	26.28	42.40	37.83	8.17	46.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor-PreAMP + Cable loss

Product : Wireless LAN PC Card
 Test Item : General Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 1 (5.5Mbps)

Freq.	Cable Loss Factor		PreAMP Reading		Measurement Level		Margin Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal:								
132.820	1.53	11.82	26.89	54.20	40.66	2.84	43.50	
199.750	1.88	9.24	26.91	54.60	38.80	4.70	43.50	
233.700	2.05	10.59	26.93	56.00	41.71	4.29	46.00	
266.680	2.22	12.15	26.94	54.80	42.23	3.77	46.00	
330.700	2.55	13.66	26.90	53.60	42.91	3.09	46.00	
* 597.450	3.92	15.95	26.48	50.40	43.79	2.21	46.00	
Vertical:								
133.790	1.54	11.82	26.89	49.60	36.06	7.44	43.50	
232.730	2.05	10.45	26.93	52.60	38.17	7.83	46.00	
330.700	2.55	13.66	26.90	51.00	40.31	5.69	46.00	
* 596.480	3.92	15.93	26.48	51.00	44.36	1.64	46.00	
727.430	4.59	17.11	26.28	42.20	37.63	8.37	46.00	
745.860	4.69	17.29	26.25	42.80	38.53	7.47	46.00	

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor-PreAMP + Cable loss

Product : Wireless LAN PC Card
 Test Item : General Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 1 (11Mbps)

Freq.	Cable		Probe		PreAMP	Reading	Measurement		Margin	Limit
	Loss	Factor	dB	dB/m			dB	dBuV		

Horizontal:

132.820	1.53	11.82	26.89	53.00	39.46	4.04	43.50
* 266.680	2.22	12.15	26.94	56.20	43.63	2.37	46.00
464.560	3.24	14.39	26.69	45.00	35.94	10.06	46.00
597.450	3.92	15.95	26.48	50.00	43.39	2.61	46.00
728.400	4.60	16.92	26.28	48.20	43.44	2.56	46.00
745.860	4.69	17.29	26.25	43.40	39.13	6.87	46.00

Vertical:

132.820	1.53	11.82	26.89	48.00	34.46	9.04	43.50
232.730	2.05	10.45	26.93	49.40	34.97	11.03	46.00
330.700	2.55	13.66	26.90	51.40	40.71	5.29	46.00
* 596.480	3.92	15.93	26.48	49.40	42.76	3.24	46.00
727.430	4.59	17.11	26.28	41.80	37.23	8.77	46.00
746.830	4.69	17.19	26.25	42.80	38.44	7.56	46.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor-PreAMP + Cable loss

Product : Wireless LAN PC Card
 Test Item : General Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 6 (1Mbps)

Freq.	Cable	Probe	PreAMP	Reading	Measurement	Margin	Limit
MHz	Loss	Factor	Level	dB	dBuV	dBuV/m	dB
	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal:

* 133.790	1.54	11.82	26.89	55.20	41.66	1.84	43.50
199.750	1.88	9.24	26.91	55.20	39.40	4.10	43.50
301.600	2.40	12.55	26.95	53.20	41.20	4.80	46.00
330.700	2.55	13.66	26.90	54.80	44.11	1.89	46.00
596.480	3.92	15.93	26.48	46.40	39.76	6.24	46.00
727.430	4.59	17.11	26.28	46.20	41.63	4.37	46.00

Vertical:

* 132.820	1.53	11.82	26.89	50.20	36.66	6.84	43.50
233.700	2.05	10.59	26.93	50.00	35.71	10.29	46.00
330.700	2.55	13.66	26.90	47.20	36.51	9.49	46.00
596.480	3.92	15.93	26.48	44.80	38.16	7.84	46.00
727.430	4.59	17.11	26.28	43.00	38.43	7.57	46.00
745.860	4.69	17.29	26.25	42.00	37.73	8.27	46.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor-PreAMP + Cable loss

Product : Wireless LAN PC Card
 Test Item : General Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 6 (2Mbps)

Freq.	Cable	Probe		PreAMP		Reading		Measurement		Margin		Limit	
		Loss	Factor	Level	dB	dBuV	dBuV/m	dB	dBuV/m				
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m					

Horizontal:

*	132.820	1.53	11.82	26.89	55.20	41.66	1.84	43.50
	299.660	2.39	12.53	26.95	55.80	43.77	2.23	46.00
	330.700	2.55	13.66	26.90	54.40	43.71	2.29	46.00
	595.510	3.91	15.93	26.49	50.00	43.36	2.64	46.00
	727.430	4.59	17.11	26.28	47.20	42.63	3.37	46.00
	745.860	4.69	17.29	26.25	43.00	38.73	7.27	46.00

Vertical:

	133.790	1.54	11.82	26.89	49.80	36.26	7.24	43.50
	233.700	2.05	10.59	26.93	50.40	36.11	9.89	46.00
*	330.700	2.55	13.66	26.90	50.60	39.91	6.09	46.00
	465.530	3.25	14.52	26.69	43.40	34.47	11.53	46.00
	727.430	4.59	17.11	26.28	43.40	38.83	7.17	46.00
	745.860	4.69	17.29	26.25	42.40	38.13	7.87	46.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor-PreAMP + Cable loss

Product : Wireless LAN PC Card
 Test Item : General Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 6 (5.5Mbps)

Freq.	Cable	Probe		PreAMP		Reading		Measurement		Margin		Limit	
		Loss	Factor	Level	dB	dBuV	dBuV/m	dB	dBuV/m				
MHz		dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m					

Horizontal:

*	134.760	1.54	11.50	26.89	55.60	41.75	1.75	43.50
	232.730	2.05	10.45	26.93	57.60	43.17	2.83	46.00
	266.680	2.22	12.15	26.94	56.20	43.63	2.37	46.00
	597.450	3.92	15.95	26.48	50.80	44.19	1.81	46.00
	728.400	4.60	16.92	26.28	48.40	43.64	2.36	46.00
	745.860	4.69	17.29	26.25	43.60	39.33	6.67	46.00

Vertical:

	132.820	1.53	11.82	26.89	50.80	37.26	6.24	43.50
	232.730	2.05	10.45	26.93	51.80	37.37	8.63	46.00
*	330.700	2.55	13.66	26.90	51.00	40.31	5.69	46.00
	727.430	4.59	17.11	26.28	43.20	38.63	7.37	46.00
	746.830	4.69	17.19	26.25	42.20	37.84	8.16	46.00
	859.350	5.27	17.79	26.07	37.80	34.79	11.21	46.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor-PreAMP + Cable loss

Product : Wireless LAN PC Card
 Test Item : General Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 6 (11Mbps)

Freq.	Cable Loss	Probe Factor		PreAMP Reading		Measurement Level		Margin	Limit
		dB	dB/m	dB	dBuV	dBuV/m	dB		
Horizontal:									
132.820	1.53	11.82	26.89	53.60	40.06	3.44	43.50		
232.730	2.05	10.45	26.93	56.20	41.77	4.23	46.00		
266.680	2.22	12.15	26.94	55.60	43.03	2.97	46.00		
299.660	2.39	12.53	26.95	53.40	41.37	4.63	46.00		
* 596.480	3.92	15.93	26.48	51.00	44.36	1.64	46.00		
727.430	4.59	17.11	26.28	47.80	43.23	2.77	46.00		
Vertical:									
132.820	1.53	11.82	26.89	50.00	36.46	7.04	43.50		
232.730	2.05	10.45	26.93	51.80	37.37	8.63	46.00		
264.740	2.21	12.33	26.94	51.80	39.40	6.60	46.00		
* 330.700	2.55	13.66	26.90	52.40	41.71	4.29	46.00		
727.430	4.59	17.11	26.28	42.40	37.83	8.17	46.00		
746.830	4.69	17.19	26.25	42.40	38.04	7.96	46.00		

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor-PreAMP + Cable loss

Product : Wireless LAN PC Card
 Test Item : General Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 11 (1Mbps)

Freq.	Cable	Probe	PreAMP	Reading	Measurement	Margin	Limit
MHz	Loss	Factor	Level	dBuV	dBuV/m	dB	dBuV/m
		dB	dB/m	dB			

Horizontal:

*	132.820	1.53	11.82	26.89	54.80	41.26	2.24	43.50
	199.750	1.88	9.24	26.91	56.40	40.60	2.90	43.50
	265.710	2.22	12.23	26.94	55.00	42.51	3.49	46.00
	596.480	3.92	15.93	26.48	50.20	43.56	2.44	46.00
	727.430	4.59	17.11	26.28	48.00	43.43	2.57	46.00
	745.860	4.69	17.29	26.25	43.20	38.93	7.07	46.00

Vertical:

	132.820	1.53	11.82	26.89	51.00	37.46	6.04	43.50
	299.660	2.39	12.53	26.95	50.80	38.77	7.23	46.00
	330.700	2.55	13.66	26.90	49.60	38.91	7.09	46.00
*	597.450	3.92	15.95	26.48	50.80	44.19	1.81	46.00
	727.430	4.59	17.11	26.28	44.60	40.03	5.97	46.00
	744.890	4.68	17.28	26.25	41.80	37.52	8.48	46.00

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor-PreAMP + Cable loss

Product : Wireless LAN PC Card
 Test Item : General Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 11 (2Mbps)

Freq.	Cable	Probe		PreAMP		Reading		Measurement		Margin		Limit	
		Loss	Factor	Level	dB	dBuV	dBuV/m	dB	dBuV/m				
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	dBuV/m	dB	dBuV/m	dB	dBuV/m	dB	dBuV/m
Horizontal:													
132.820	1.53	11.82	26.89	55.20	41.66	1.84	43.50						
200.720	1.88	9.14	26.91	56.20	40.30	3.20	43.50						
266.680	2.22	12.15	26.94	55.40	42.83	3.17	46.00						
299.660	2.39	12.53	26.95	56.00	43.97	2.03	46.00						
* 330.700	2.55	13.66	26.90	55.20	44.51	1.49	46.00						
596.480	3.92	15.93	26.48	50.20	43.56	2.44	46.00						
Vertical:													
133.790	1.54	11.82	26.89	51.80	38.26	5.24	43.50						
233.700	2.05	10.59	26.93	51.80	37.51	8.49	46.00						
330.700	2.55	13.66	26.90	49.60	38.91	7.09	46.00						
* 597.450	3.92	15.95	26.48	50.40	43.79	2.21	46.00						
727.430	4.59	17.11	26.28	43.00	38.43	7.57	46.00						
745.860	4.69	17.29	26.25	41.60	37.33	8.67	46.00						

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor-PreAMP + Cable loss

Product : Wireless LAN PC Card
 Test Item : General Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 11 (5.5Mbps)

Freq.	Cable Loss	Probe Factor		PreAMP Reading		Measurement Margin		Limit
		dB	dB/m	dB	dBuV	dBuV/m	dB	
Horizontal:								
198.780	1.87	9.14	26.91	56.40	40.50	3.00	43.50	
232.730	2.05	10.45	26.93	57.40	42.97	3.03	46.00	
265.710	2.22	12.23	26.94	56.20	43.71	2.29	46.00	
* 330.700	2.55	13.66	26.90	55.40	44.71	1.29	46.00	
596.480	3.92	15.93	26.48	50.00	43.36	2.64	46.00	
727.430	4.59	17.11	26.28	48.40	43.83	2.17	46.00	
Vertical:								
* 132.820	1.53	11.82	26.89	51.60	38.06	5.44	43.50	
232.730	2.05	10.45	26.93	52.60	38.17	7.83	46.00	
264.740	2.21	12.33	26.94	51.20	38.80	7.20	46.00	
330.700	2.55	13.66	26.90	50.60	39.91	6.09	46.00	
727.430	4.59	17.11	26.28	43.40	38.83	7.17	46.00	
745.860	4.69	17.29	26.25	42.20	37.93	8.07	46.00	

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor-PreAMP + Cable loss

Product : Wireless LAN PC Card
 Test Item : General Radiated Emission Data
 Test Site : No.1 OATS
 Test Mode : Channel 11 (11Mbps)

Freq.	Cable	Probe		PreAMP	Reading	Measurement		Margin	Limit
		Loss	Factor			Level	Level		
MHz		dB	dB/m		dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal:

*	132.820	1.53	11.82	26.89	55.20	41.66	1.84	43.50
	199.750	1.88	9.24	26.91	55.20	39.40	4.10	43.50
	233.700	2.05	10.59	26.93	53.60	39.31	6.69	46.00
	263.770	2.21	12.41	26.94	53.80	41.48	4.52	46.00
	595.510	3.91	15.93	26.49	50.00	43.36	2.64	46.00
	725.490	4.58	16.90	26.28	47.40	42.61	3.39	46.00

Vertical:

	133.790	1.54	11.82	26.89	51.20	37.66	5.84	43.50
	232.730	2.05	10.45	26.93	51.60	37.17	8.83	46.00
*	330.700	2.55	13.66	26.90	51.00	40.31	5.69	46.00
	464.560	3.24	14.39	26.69	42.00	32.94	13.06	46.00
	727.430	4.59	17.11	26.28	42.20	37.63	8.37	46.00
	745.860	4.69	17.29	26.25	42.20	37.93	8.07	46.00

Note:

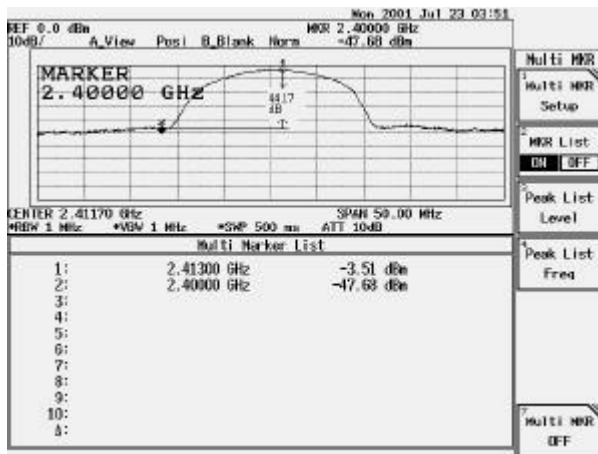
1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ * ”, means this data is the worst emission level.
3. Emission Level = Reading Level + Probe Factor-PreAMP + Cable loss

4.7. Test Result of Band Edge

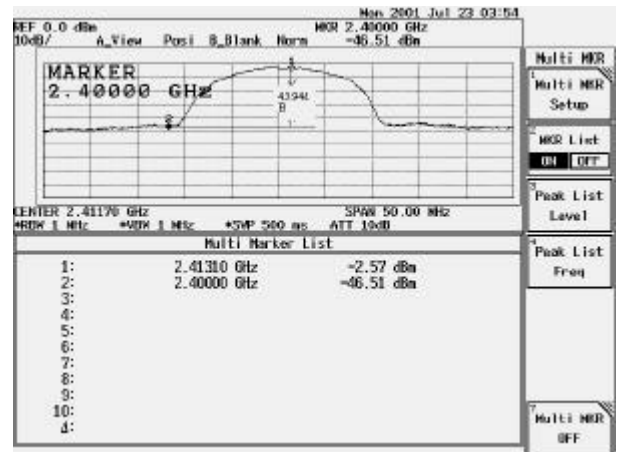
Product : Wireless LAN PC Card
 Test Item : Band Edge Data
 Test Site : No.1 OATS
 Test Mode : Channel 1

Channel No.	Frequency (MHz)	Required Limit (dBc)	Result
1 (1Mbps)	<2400	>20	Pass
1 (2Mbps)	<2400	>20	Pass
1 (5.5Mbps)	<2400	>20	Pass
1 (11Mbps)	<2400	>20	Pass

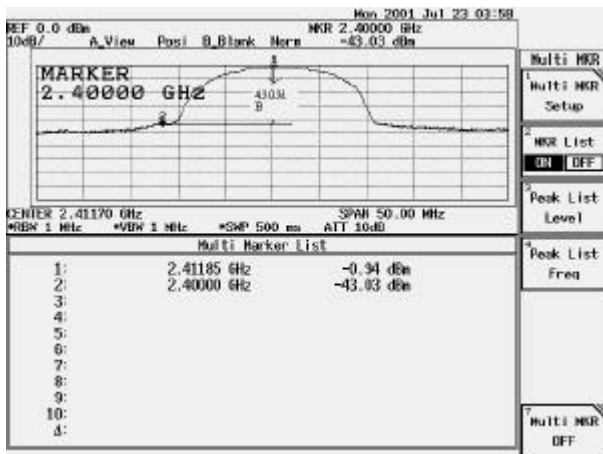
Figure Channel 1: 1Mbps



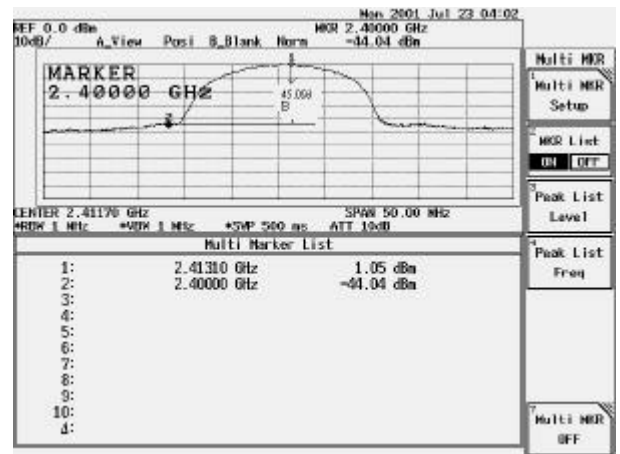
2Mbps



5.5Mbps



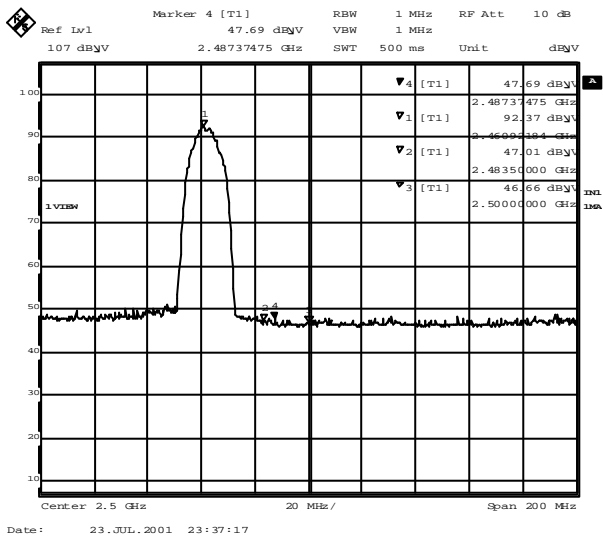
11Mbps



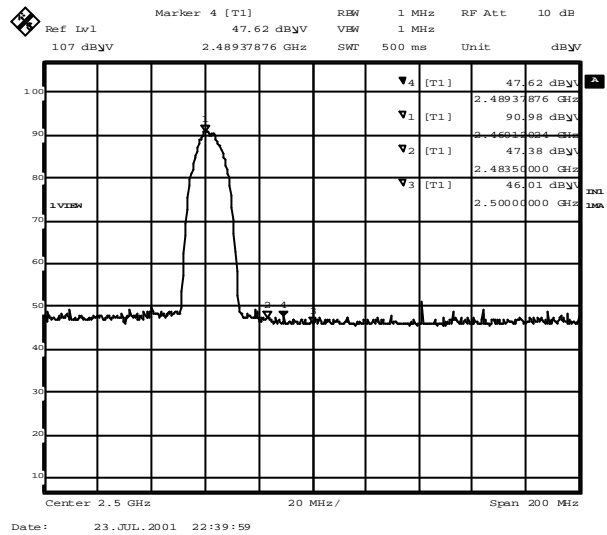
Product : Wireless LAN PC Card
 Test Item : Band Edge Data
 Test Site : No.1 OATS
 Test Mode : Channel 11

Channel No.	Frequency (MHz)	Required Limit (dBuV/m)	Result
11 (1Mbps)	>2486.5	<54	Pass
11 (2Mbps)	>2486.5	<54	Pass
11 (5.5Mbps)	>2486.5	<54	Pass
11 (11Mbps)	>2486.5	<54	Pass

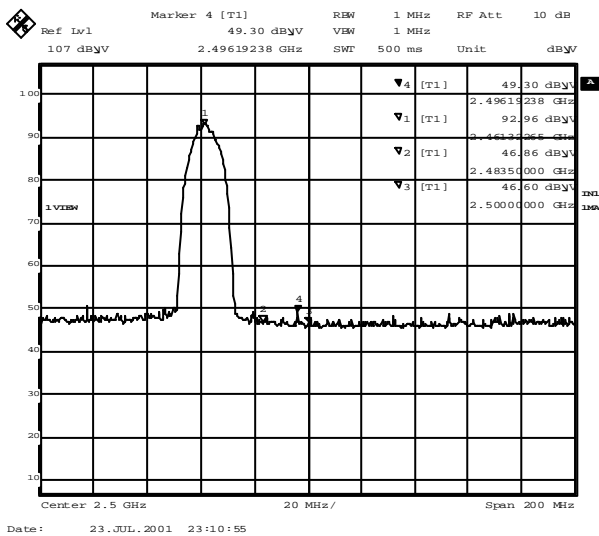
Figure Channel 11: 1Mbps



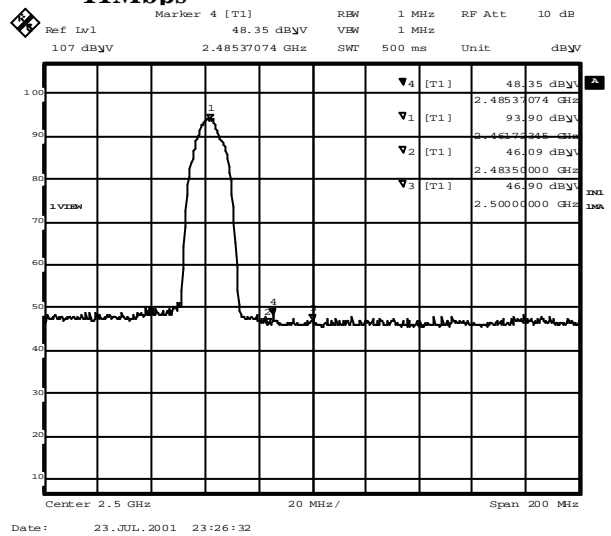
2Mbps



5.5Mbps



11Mbps



5. Occupied Bandwidth

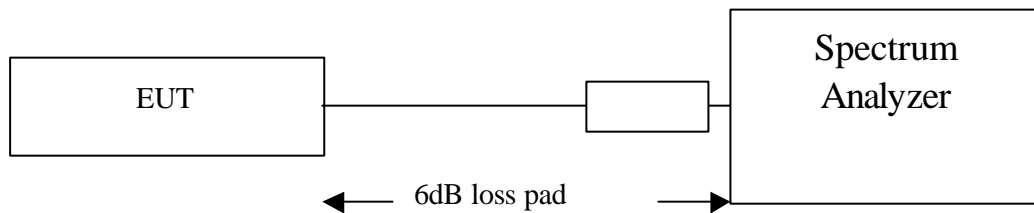
5.1. Test Equipment

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

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	Advantest	R3272 / 72421194	May, 2001
X	Horn Antenna	EM	EM6917 / 103325	May, 2001

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.

5.2. Test Setup



5.3. Test Condition

Standard Temperature and Humidity, Standard Test Voltage

5.4. Standard Requirement

The minimum bandwidth shall be at least 500kHz.

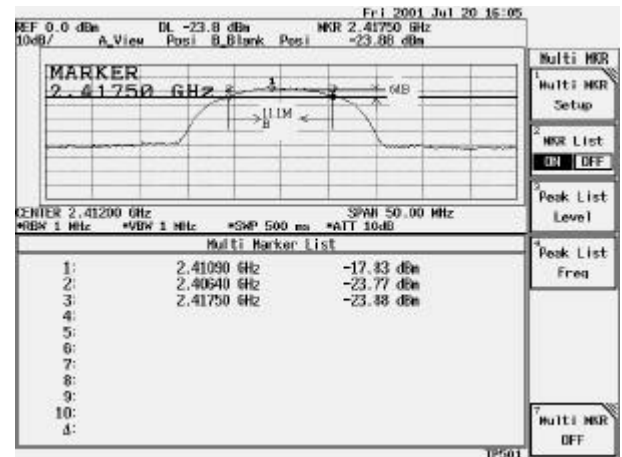
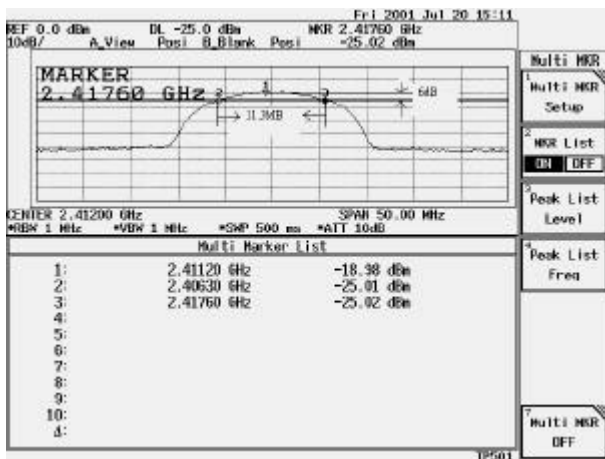
5.5. Test Result of Occupied Bandwidth

Product : Wireless LAN PC Card
 Test Item : Occupied Bandwidth Data
 Test Site : No.1 OATS
 Test Mode : Channel 1

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1 (1Mbps)	2412	1200	>500	Pass
1 (2Mbps)	2412	1210	>500	Pass
1 (5.5Mbps)	2412	1050	>500	Pass
1 (11Mbps)	2412	1110	>500	Pass

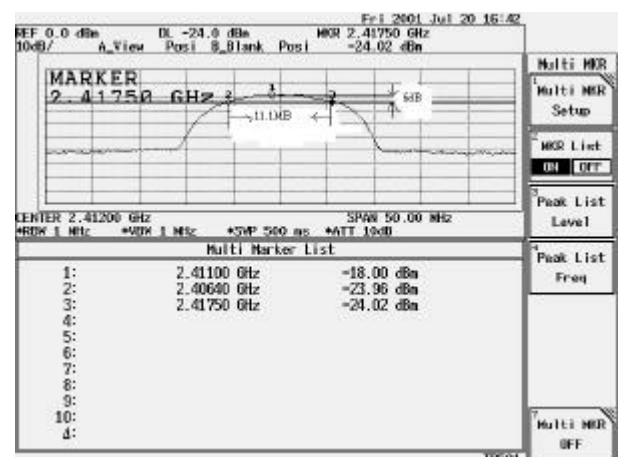
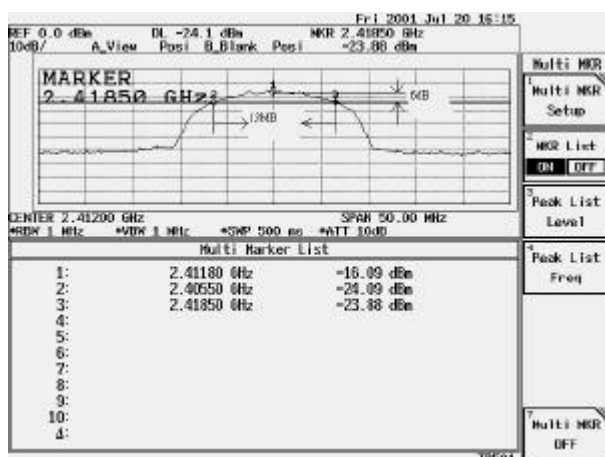
Figure Channel 1: 1Mbps

2Mbps



5.5Mbps

11Mbps

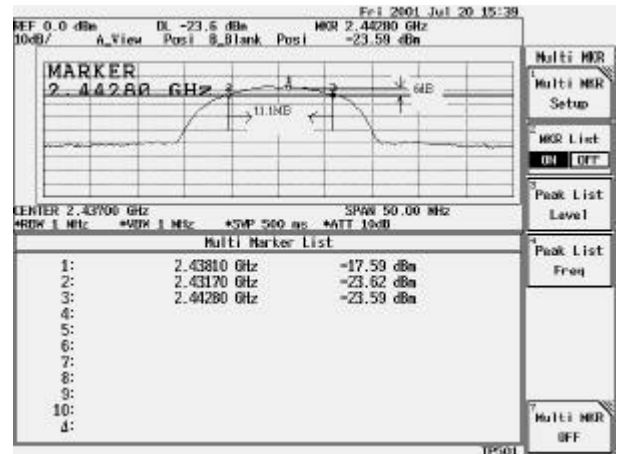
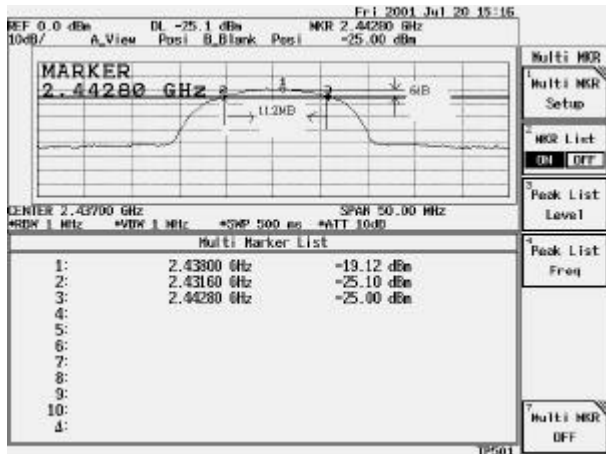


Product : Wireless LAN PC Card
 Test Item : Occupied Bandwidth Data
 Test Site : No.1 OATS
 Test Mode : Channel 6

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6 (1Mbps)	2437	1200	>500	Pass
6 (2Mbps)	2437	1200	>500	Pass
6(5.5Mbps)	2437	1000	>500	Pass
6 (11Mbps)	2437	1100	>500	Pass

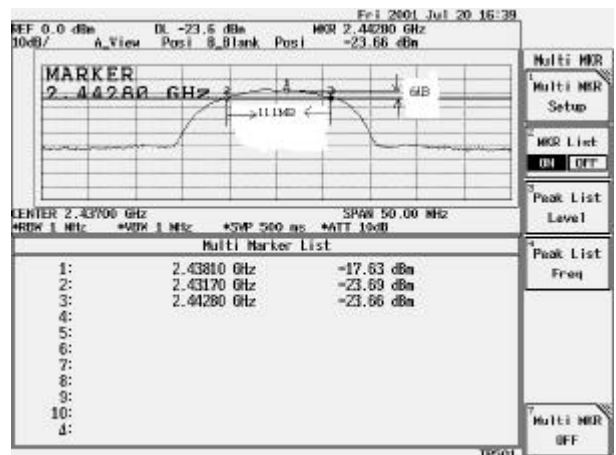
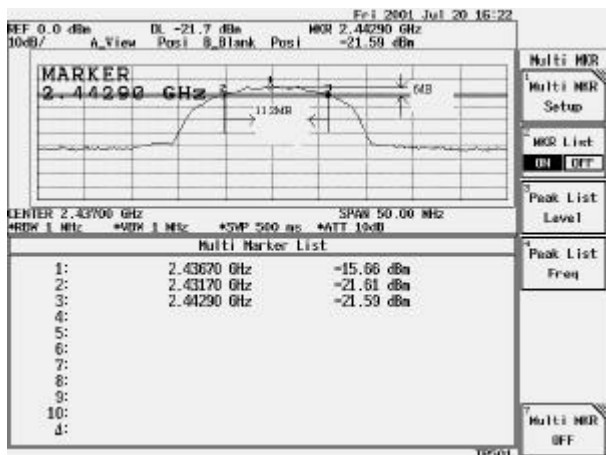
Figure Channel 6: 1Mbps

2Mbps



5.5Mbps

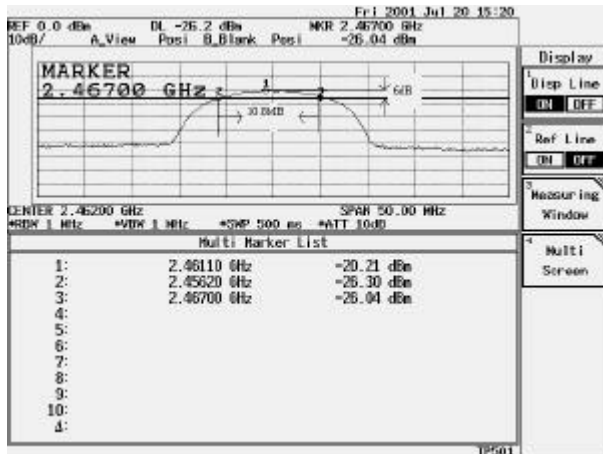
11Mbps



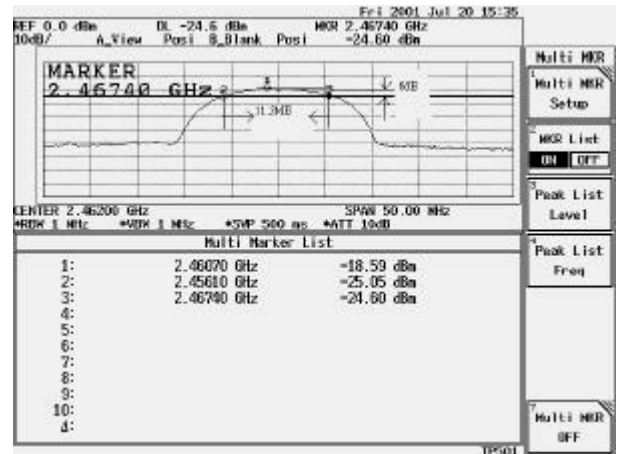
Product : Wireless LAN PC Card
 Test Item : Occupied Bandwidth Data
 Test Site : No.1 OATS
 Test Mode : Channel 11

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11 (1Mbps)	2462	1200	>500	Pass
11 (2Mbps)	2462	1200	>500	Pass
11 (5.5Mbps)	2462	1000	>500	Pass
11 (11Mbps)	2462	1080	>500	Pass

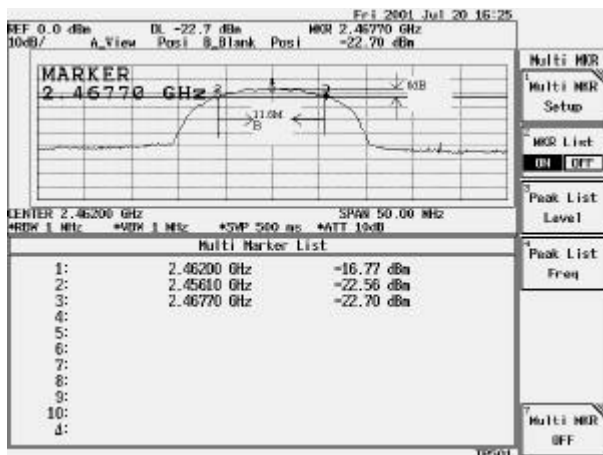
Figure Channel 11: 1Mbps



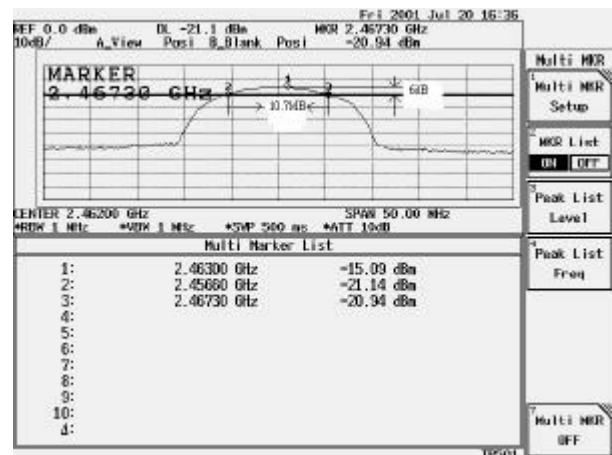
2Mbps



5.5Mbps



11Mbps



6. Transmitter Power Density

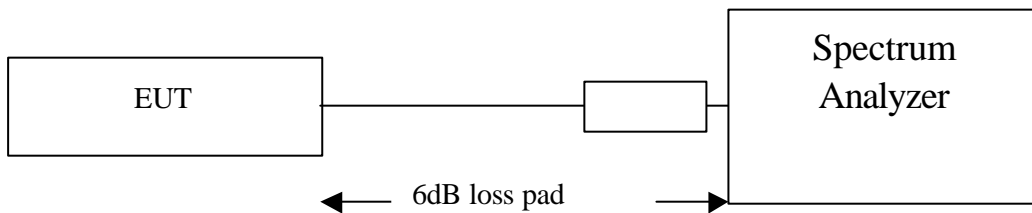
6.1. Test Equipment

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

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	Advantest	R3272 / 72421194	May, 2001
X	Attenuator	HP		May, 2001
X	Horn Antenna	EM	EM6917 / 103325	May, 2001

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.

6.2. Test Setup



6.3. Test Condition

Standard Temperature and Humidity, Standard Test Voltage

6.4. Standard Requirement

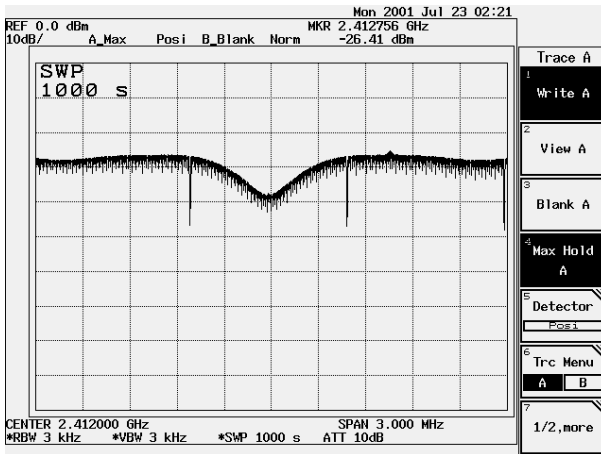
The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3kHz bandwidth.

6.5. Test Result of Transmitter Power Density

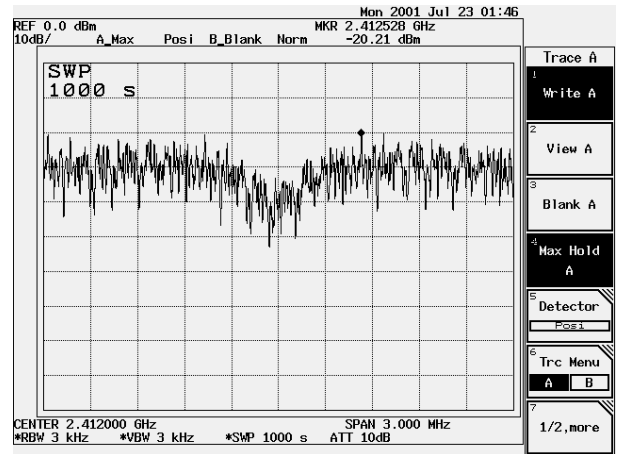
Product : Wireless LAN PC Card
 Test Item : Transmitter Power Density Data
 Test Site : No.1 OATS
 Test Mode : Channel 1

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
1 (1Mbps)	2411.991	-14.51dBm	< 8dBm	Pass
1 (2Mbps)	2411.991	-13.09dBm	< 8dBm	Pass
1 (5.5Mbps)	2411.991	-13.69dBm	< 8dBm	Pass
1 (11Mbps)	2411.991	-11.56dBm	< 8dBm	Pass

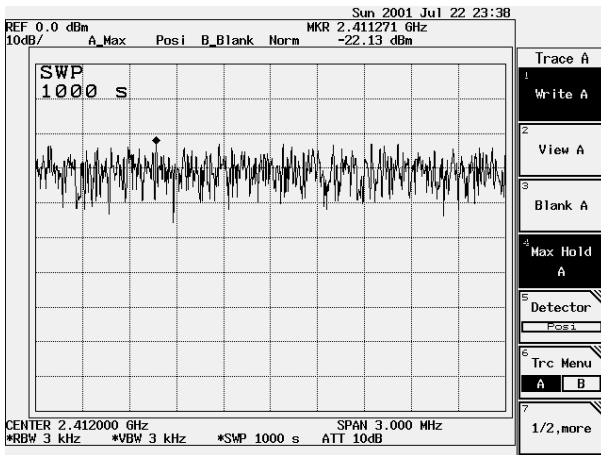
Figure Channel 1: 1Mbps



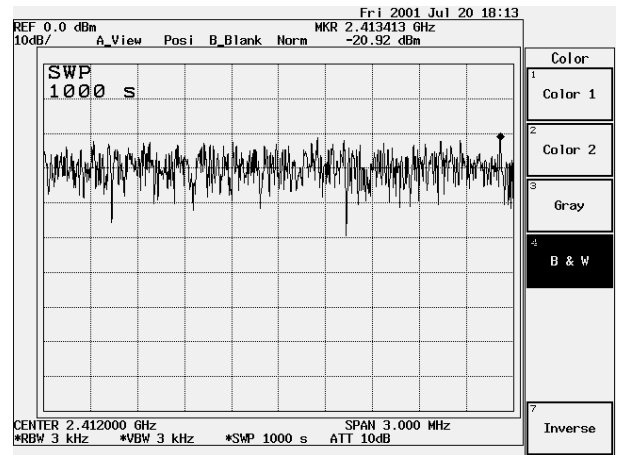
2Mbps



5.5Mbps



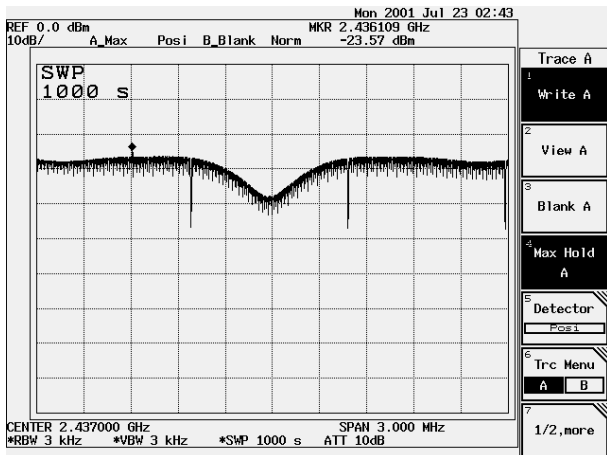
11Mbps



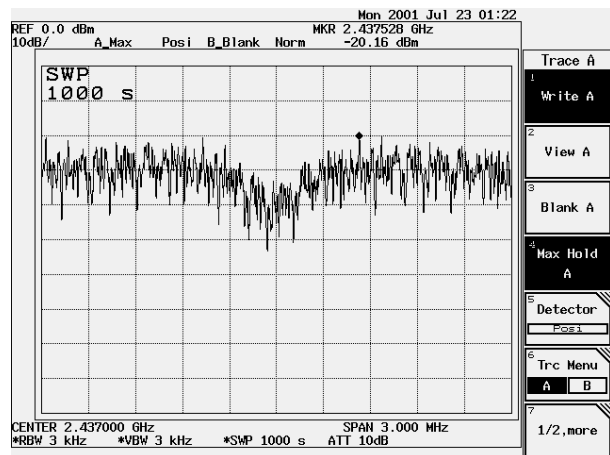
Product : Wireless LAN PC Card
 Test Item : Transmitter Power Density Data
 Test Site : No.1 OATS
 Test Mode : Channel 6

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6 (1Mbps)	2441.991	-14.87dBm	< 8dBm	Pass
6 (2Mbps)	2441.991	-13.40dBm	< 8dBm	Pass
6(5.5Mbps)	2441.991	-13.95dBm	< 8dBm	Pass
6 (11Mbps)	2441.991	-11.95dBm	< 8dBm	Pass

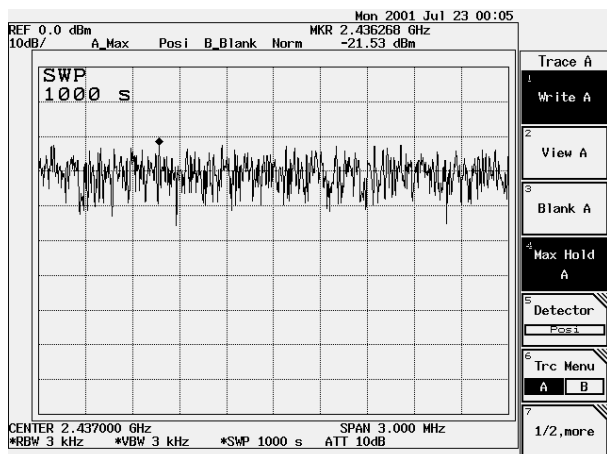
Figure Channel6: 1Mbps



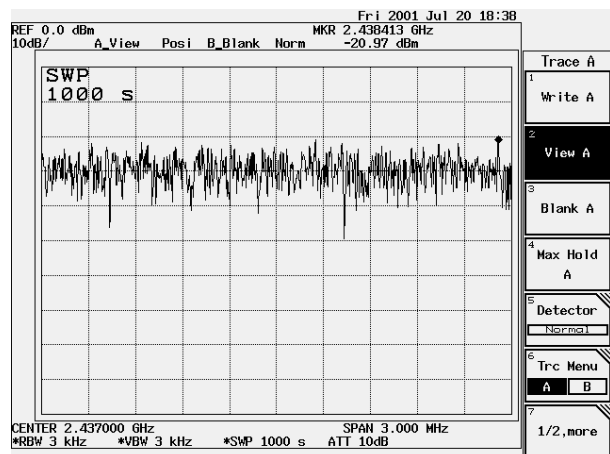
2Mbps



5.5Mbps



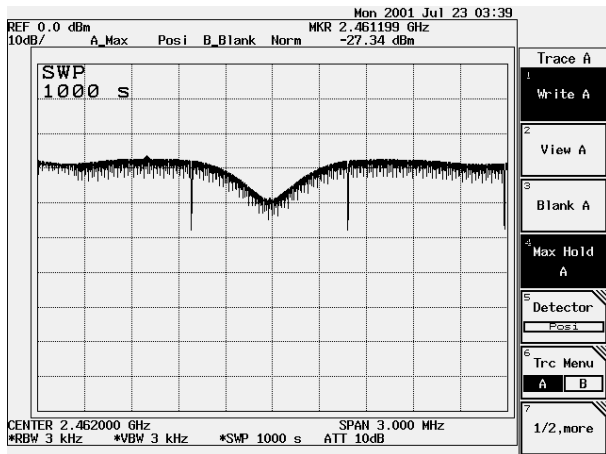
11Mbps



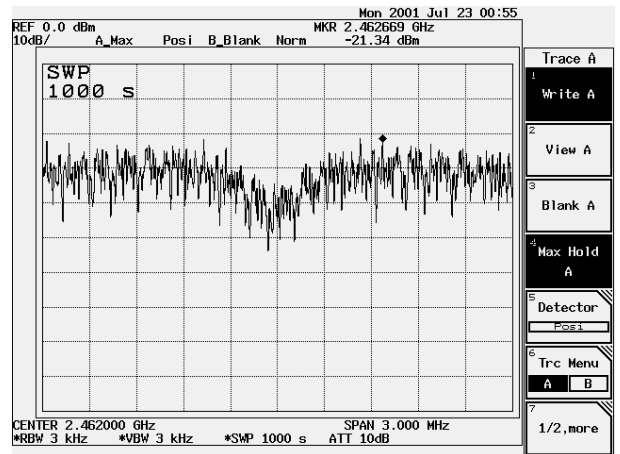
Product : Wireless LAN PC Card
 Test Item : Transmitter Power Density Data
 Test Site : No.1 OATS
 Test Mode : Channel 11

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11 (1Mbps)	2471.991	-14.98dBm	< 8dBm	Pass
11 (2Mbps)	2471.991	-13.40dBm	< 8dBm	Pass
11 (5.5Mbps)	2471.991	-13.99dBm	< 8dBm	Pass
11 (11Mbps)	2471.991	-11.95dBm	< 8dBm	Pass

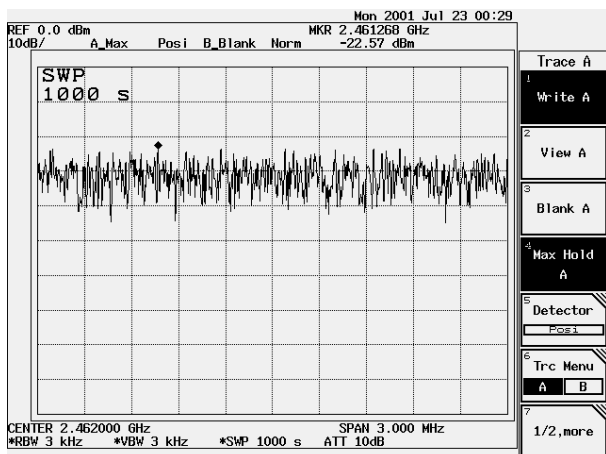
Figure Channell: 1Mbps



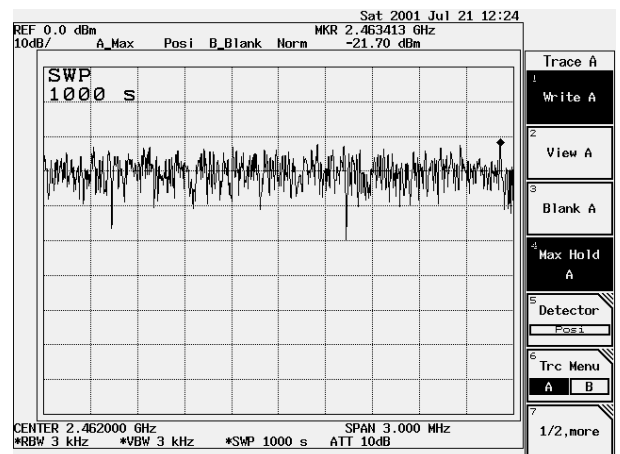
2Mbps



5.5Mbps



11Mbps



7. Processing Gain

7.1. Test Condition

Standard Temperature and Humidity, Standard Test Voltage

7.2. Minimum Standard

The processing gain shall be at least 10 dB.

7.3. Method of Measurement

The processing gain of this spread spectrum was measured the CW jamming method. The Section 9.1 illustrates the measurement setup. The output power of the spread spectrum transmitter is fixed and the output power of jammer is adjustable. The frequency of jammer was stepped through the pass band of nominal channel in 50kHz steps. In each frequency step of the jammer, the output power of jammer is adjusted to cause the Bit Error Rate (BER) to be 1.0×10^{-6} . The power levels are recorded to calculate the J/S as shown in Table 1.

7.4. Calculation of Processing Gain:

The processing gain was determined by measuring the jamming margin of the EUT and using the following formula:

$$G_p = (S/N)_o + M_j + L_{sys}$$

Where $(S/N)_o$ is the required signal to noise ratio at the receiver output

M_j is the jammer to signal ratio (J/S)

L_{sys} is the system loss

The $(S/N)_o$ is calculated from:

$$P_e = 1/2 \exp(-1/2(S/N)_o) \quad ; \quad P_e = \text{probability of error (BER)}$$

For the $P_e(\text{BER}) = 1.0 \times 10^{-6}$, the required $(S/N)_o$ is 14.2dB

From Measurement, the minimum J/S(M_j) is -3.4dB

We assume the system loss is 1dB.

Therefore the processing gain is calculated below:

$$G_p = (S/N)_o + M_j + L_{sys} = 14.2 + (-3.4) + 1 = 11.8 \text{ (dB)}$$

7.5. Test Result of Processing Gain

Testing for compliance with FCC rules 15-247e

Scope

This report presents the test procedure, test configuration and test data associated with a FCC Part 15.247 (e) Jamming Margin test for the indirect measurement of processing gain.

Applicable Reference Documents.

1. “Operation within the bands 902-928 MHz, 2400-2483.5, and 5725-5850 MHz” *Title 47 Part 15 section 247 (e) Code of Federal Regulations. (47 CFR 15.247).*
2. “Report and Order: Amendment of Parts 2 and 15 of the Commission’s Rules Regarding Spread Spectrum Transmitters. Appendix C: ‘Guidance on Measurements for Direct Sequence Spread Spectrum Systems” *FCC 97-114. ET Docket No. 96-8, RM-8435, RM-8608, RM-8609.*
3. “HFA3861A Direct Sequence Spread Spectrum Baseband Processor” *Harris Corporation Semiconductor Sector Preliminary Data Sheet*, Melbourne FL, July 1999.
4. “M-ary Orthogonal Keying BER Curve”,

Test Background and Procedure.

According to FCC regulations [1], a direct sequence spread spectrum system must have a processing gain, G_p of at least 10 dB. Compliance to this requirement can be shown by demonstrating a relative bit-error-ratio (BER) performance improvement (and corresponding signal to noise ratio per symbol improvement of at least 10 dB) between the case where spread spectrum processes (coding, modulation) are engaged relative to the processes being bypassed. In some practical systems, the spread spectrum processing cannot simply be bypassed. In these cases, the processing gain can be indirectly measured by a jamming margin test [2]. In accordance with the new NPRM 99-231, if the vendor has a system with less than 10 chips per symbol, the CW jamming results must be supported by a theoretical explanation of the system processing gain.

Theoretical calculations

The processing gain is related to the jamming margin as follows [2]:

$$G_p = \left(\frac{S}{N} \right)_{output} + \left(\frac{J}{S} \right) + L_{system}$$

Where $BER_{REFERENCE}$ is the reference bit error ratio with its corresponding, theoretical output signal to noise ratio per symbol, $(S/N)_{output}$, (J/S) is the jamming margin (jamming signal power relative to desired signal power), and L_{system} are the system implementation losses.

The maximum allowed total system implementation loss is 2 dB.

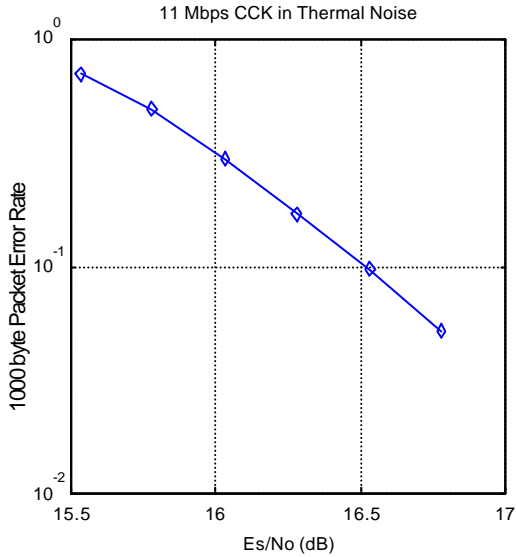
The HFA3861A direct sequence spread spectrum baseband processor uses CCK modulation which is a form of M-ary Orthogonal Keying. The BER performance curve is given by [5]:

“ The probability of error for generalized M-ary Orthogonal signaling using coherent demodulation is given by:

$$P_e = 1 - P_{c1} = 1 - \frac{1}{\sqrt{2p}} \int_{\frac{S_{01}}{N_0}}^{\infty} \left[2(1 - Q \left\{ z + \sqrt{2 \frac{E_b}{h}} \right\} \right)^{\frac{M}{2}-1} \exp \left\{ -\frac{z^2}{2} \right\} dz$$

This integral cannot be solved in closed form, and numerical integration must be used. There are error rate extensions for differential decoding and descrambling that are also to be accounted for. This is done in a MATHCAD environment and is displayed in graphical format below.

1.1 1000 byte PER vs. Es/No



The reference PER is specified as 8% . The corresponding Es/No (signal to noise ratio per symbol) is 16.4 dB. The Es/No required to achieve the desired BER with maximum system implementation losses is 18.4 dB. The minimum processing gain is again, 10 dB, therefore:

$$G_p = \left(\frac{E_s}{N_o} \right)_{output} + \left(\frac{J}{S} \right) + L_{system} = 16.4dB + 2.0dB + \left(\frac{J}{S} \right) \geq 10dB$$

$$G_p = 18.4 dB + \left(\frac{J}{S} \right) \geq 10dB$$

The minimum jammer to signal ratio is as follows:

$$\left(\frac{J}{S} \right) \geq -8.4 dB$$

For the case of the HFA3861A, the bit rates are 1, 2, 5.5, and 11 Mbps. The corresponding symbol rates are 1, 1, 1.375, and 1.375 MSps. The chip rate is always 11 MCps, so the ratio of chip rate to symbol rate is 11:1 for the 1 and 2 Mbps rates and 8:1 for the 5.5 and 11 Mbps rates. Since the symbol rate to bit rate is less than 10 for the higher rates, we supply the theoretical processing gain calculation for these cases where spread spectrum processing gain with embedded coding gain is utilized. This is reasonable in that they cannot be separated in the

demodulation process. If a separable FEC coding scheme were used, we would not be comfortable making this assertion.

As can be seen from the curve of figure 1, the E_s/N_0 is 16.4 dB at the PER of 8%. This PER can be related to a BER of $1e-5$ on 1000 byte packets. With 8 bits per symbol, the E_b/N_0 is then 7.4 dB or 9 dB less than the E_s/N_0 . It is well known that the E_b/N_0 of BPSK is 9.6 dB for $1e-5$ BER, so therefore the coding gain of CCK over BPSK is 2.2 dB. We add this to the processing gain of 9 dB to get 11.2 dB overall processing gain for the CW jammer test.

Taking the calculations above, if the $\left(\frac{J}{S}\right) \geq -8.4 \text{ dB}$ then the equipment passes the CW jamming test.

Test Configuration: CW Jamming Margin (15.247) (e)

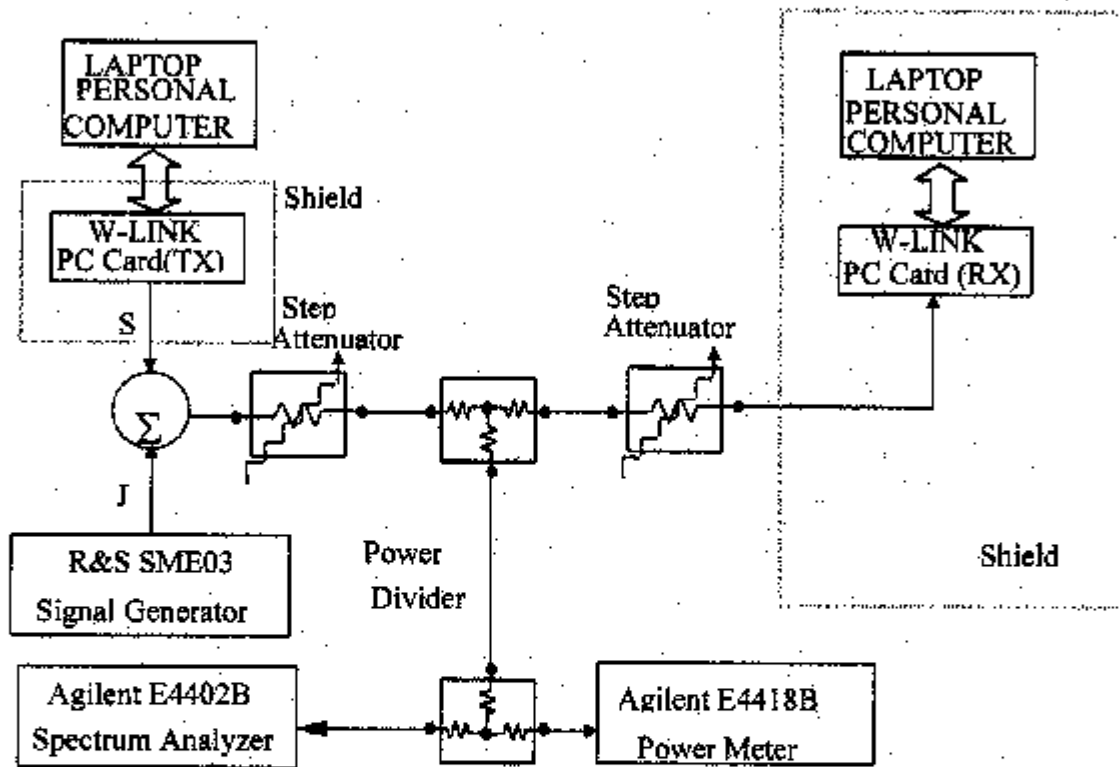
Test Instruments

Manufacturer & Description	Model Number
Agilent Spectrum Analyzer, 9KHz to 3GHz	E4402B
Agilent Power Meter	E4418B
Agilent Power Sensor, -70 to 20dBm	E4412A
Agilent Step Attenuator, 10dB steps, DC to 4GHz	8496A
Agilent Step Attenuator, 1dB steps, DC to 4GHz	8494A
Anaren Power Divider, 2 Way, 2 to 4GHz	40266
ROHDE & SCHWARZ Signal Generator, 5KHz to 3GHz	SME03
Compaq Laptop Computer, Pentium III 700, Windows ME	Presario 1700
Dell Laptop Computer, Pentium III 700, Windows 98	PP01L

Test Environment

25°C, 70%RH.

Test Block Diagram



Test Procedure

Setup the simplex link shown. Perform all independent instrumentation calibrations prior to this procedure. Set operating power levels using fixed and variable attenuators in system to meet the following objectives:

- Signal Power at receiver approximately -60 dBm (above thermal sensitivity such that thermal noise does not cause bit errors).
- Signal Power at power meter (using high sensitivity probe) between -20 and -40 dBm for optimal linearity.
- Use spectrum analyzer to monitor test.

- Ensure that CW Jammer generator RF output is disabled and measure the power at the power meter port using the power meter. This is the relative signal power, S_r .
- Disable Transmitter, and set CW Jammer generator RF output frequency equal to the carrier frequency and enable generator output. Set reference CW Jammer power level at power meter port 8.4 dB below S_r (minimum J/S, or 10 dB processing gain reference level). Note the power level setting on the generator, this is the reference CW Jammer power setting, J_r .
- Disable CW Jammer, re-establish link. PER test should be operating essentially error-free.
- Adjust the CW Jammer level to that which causes 8% PER and verify that the S/J is less than 8.4 dB.
- Repeat step 7 for uniform steps in frequency increments of 50 kHz across the receiver passband with the CW Jammer. In this case the receiver passband is ± 8.5 MHz.

The number of points where the S/J fails to achieve 8.4 dB (is higher than 8.4 dB) is determined and if this is above 20% of the total, the test is failed otherwise it is passed.

The numerical data associated with the following radio channels is tabulated and presented for:

11Mbps:

Channel 1: 2412MHz

Channel 7: 2442MHz

Channel 11: 2462MHz

2Mbps:

Channel 7: 2442MHz

Test Result

11Mbps Channel 1 (2412MHz) Processing Gain							
$G_p = (S/N)_o + L_{sys} + (J_r/S_r)$							
Frequency	(S/N)_o	S_r	J_r	J_r/S_r	L_{sys}	FER	G_p
(MHz)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(%)	(dB)
2403.5	16.4	-62	-60.6	1.4	2	6.2	19.8
2403.55	16.4	-62	-60.9	1.1	2	4.8	19.5
2403.6	16.4	-62	-59.8	2.2	2	5.6	20.6
2403.65	16.4	-62	-61.6	0.4	2	5.4	18.8
2403.7	16.4	-62	-61.3	0.7	2	7.1	19.1
2403.75	16.4	-62	-61.8	0.2	2	6.3	18.6
2403.8	16.4	-62	-60.5	1.5	2	4.8	19.9
2403.85	16.4	-62	-61.7	0.3	2	4.5	18.7
2403.9	16.4	-62	-60.6	1.4	2	5.6	19.8
2403.95	16.4	-62	-61.7	0.3	2	4.2	18.7
2404	16.4	-62	-60.4	1.6	2	4.7	20
2404.05	16.4	-62	-59.7	2.3	2	7	20.7
2404.1	16.4	-62	-60.5	1.5	2	5.2	19.9
2404.15	16.4	-62	-61.3	0.7	2	6.9	19.1
2404.2	16.4	-62	-60.9	1.1	2	5.1	19.5
2404.25	16.4	-62	-60.2	1.8	2	6.3	20.2
2404.3	16.4	-62	-60.3	1.7	2	5.7	20.1
2404.35	16.4	-62	-61.6	0.4	2	4.6	18.8
2404.4	16.4	-62	-61.3	0.7	2	4.9	19.1
2404.45	16.4	-62	-60.5	1.5	2	4.6	19.9
2404.5	16.4	-62	-61	1	2	5.2	19.4
2404.55	16.4	-62	-62.1	-0.1	2	6.1	18.3
2404.6	16.4	-62	-61.6	0.4	2	6.4	18.8
2404.65	16.4	-62	-61.9	0.1	2	4.2	18.5
2404.7	16.4	-62	-62.1	-0.1	2	5.7	18.3
2404.75	16.4	-62	-62.2	-0.2	2	5.9	18.2
2404.8	16.4	-62	-61	1	2	7	19.4
2404.85	16.4	-62	-62	0	2	7.3	18.4
2404.9	16.4	-62	-62.9	-0.9	2	5.1	17.5
2404.95	16.4	-62	-62	0	2	5.5	18.4

2405	16.4	-62	-60.9	1.1	2	6	19.5
2405.05	16.4	-62	-61.9	0.1	2	6.9	18.5
2405.1	16.4	-62	-61.4	0.6	2	5.2	19
2405.15	16.4	-62	-61.2	0.8	2	4.5	19.2
2405.2	16.4	-62	-61.3	0.7	2	4.4	19.1
2405.25	16.4	-62	-62.3	-0.3	2	7	18.1
2405.3	16.4	-62	-61	1	2	6.5	19.4
2405.35	16.4	-62	-62.5	-0.5	2	6.9	17.9
2405.4	16.4	-62	-61.2	0.8	2	4.1	19.2
2405.45	16.4	-62	-61.8	0.2	2	6.3	18.6
2405.5	16.4	-62	-62	0	2	7.2	18.4
2405.55	16.4	-62	-62.7	-0.7	2	6.7	17.7
2405.6	16.4	-62	-63	-1	2	6.8	17.4
2405.65	16.4	-62	-62.6	-0.6	2	7.2	17.8
2405.7	16.4	-62	-63.4	-1.4	2	5.1	17
2405.75	16.4	-62	-63.2	-1.2	2	6.5	17.2
2405.8	16.4	-62	-62.8	-0.8	2	7.8	17.6
2405.85	16.4	-62	-64	-2	2	7.2	16.4
2405.9	16.4	-62	-64	-2	2	5.2	16.4
2405.95	16.4	-62	-63	-1	2	6	17.4
2406	16.4	-62	-63	-1	2	5	17.4
2406.05	16.4	-62	-63	-1	2	5.7	17.4
2406.1	16.4	-62	-63.1	-1.1	2	4	17.3
2406.15	16.4	-62	-64	-2	2	4.8	16.4
2406.2	16.4	-62	-62.8	-0.8	2	6.3	17.6
2406.25	16.4	-62	-63.5	-1.5	2	7.7	16.9
2406.3	16.4	-62	-64.4	-2.4	2	6.8	16
2406.35	16.4	-62	-63.6	-1.6	2	5.4	16.8
2406.4	16.4	-62	-64.2	-2.2	2	5.2	16.2
2406.45	16.4	-62	-64.6	-2.6	2	5.5	15.8
2406.5	16.4	-62	-63.5	-1.5	2	4.3	16.9
2406.55	16.4	-62	-64.2	-2.2	2	6.7	16.2
2406.6	16.4	-62	-65.5	-3.5	2	5.8	14.9
2406.65	16.4	-62	-65.4	-3.4	2	5.3	15
2406.7	16.4	-62	-64.4	-2.4	2	5.5	16
2406.75	16.4	-62	-63.9	-1.9	2	7.6	16.5

2406.8	16.4	-62	-63.9	-1.9	2	6.4	16.5
2406.85	16.4	-62	-65.3	-3.3	2	5.1	15.1
2406.9	16.4	-62	-65.4	-3.4	2	6.1	15
2406.95	16.4	-62	-64.9	-2.9	2	5.1	15.5
2407	16.4	-62	-64.9	-2.9	2	5.2	15.5
2407.05	16.4	-62	-64.9	-2.9	2	5.2	15.5
2407.1	16.4	-62	-66.5	-4.5	2	4.7	13.9
2407.15	16.4	-62	-66.2	-4.2	2	7.7	14.2
2407.2	16.4	-62	-65.2	-3.2	2	5.6	15.2
2407.25	16.4	-62	-65.2	-3.2	2	5.3	15.2
2407.3	16.4	-62	-65.3	-3.3	2	4.5	15.1
2407.35	16.4	-62	-65.2	-3.2	2	4.7	15.2
2407.4	16.4	-62	-66	-4	2	4.4	14.4
2407.45	16.4	-62	-67	-5	2	6	13.4
2407.5	16.4	-62	-66.5	-4.5	2	5.3	13.9
2407.55	16.4	-62	-65.9	-3.9	2	6	14.5
2407.6	16.4	-62	-66.6	-4.6	2	5.7	13.8
2407.65	16.4	-62	-66.4	-4.4	2	5.1	14
2407.7	16.4	-62	-67.2	-5.2	2	7.4	13.2
2407.75	16.4	-62	-67.4	-5.4	2	7.3	13
2407.8	16.4	-62	-67.3	-5.3	2	7.6	13.1
2407.85	16.4	-62	-67.1	-5.1	2	7.5	13.3
2407.9	16.4	-62	-65.9	-3.9	2	5.4	14.5
2407.95	16.4	-62	-66.8	-4.8	2	7.2	13.6
2408	16.4	-62	-67.9	-5.9	2	5.6	12.5
2408.05	16.4	-62	-66.6	-4.6	2	7.3	13.8
2408.1	16.4	-62	-67.3	-5.3	2	4.8	13.1
2408.15	16.4	-62	-67.1	-5.1	2	5.5	13.3
2408.2	16.4	-62	-67.6	-5.6	2	6.7	12.8
2408.25	16.4	-62	-68.1	-6.1	2	4.3	12.3
2408.3	16.4	-62	-67.3	-5.3	2	5.8	13.1
2408.35	16.4	-62	-66.8	-4.8	2	7.4	13.6
2408.4	16.4	-62	-67.2	-5.2	2	4.3	13.2
2408.45	16.4	-62	-67.6	-5.6	2	6.8	12.8
2408.5	16.4	-62	-67.6	-5.6	2	7.7	12.8
2408.55	16.4	-62	-67.1	-5.1	2	7.1	13.3

2408.6	16.4	-62	-67.9	-5.9	2	5.6	12.5
2408.65	16.4	-62	-67.4	-5.4	2	6.8	13
2408.7	16.4	-62	-68.3	-6.3	2	4.8	12.1
2408.75	16.4	-62	-68.2	-6.2	2	6.3	12.2
2408.8	16.4	-62	-67	-5	2	4.8	13.4
2408.85	16.4	-62	-68.3	-6.3	2	6.7	12.1
2408.9	16.4	-62	-68.3	-6.3	2	4.8	12.1
2408.95	16.4	-62	-68.6	-6.6	2	5.5	11.8
2409	16.4	-62	-68.5	-6.5	2	7.3	11.9
2409.05	16.4	-62	-67.9	-5.9	2	7.2	12.5
2409.1	16.4	-62	-68.7	-6.7	2	7.8	11.7
2409.15	16.4	-62	-68.7	-6.7	2	6.6	11.7
2409.2	16.4	-62	-68.2	-6.2	2	7.1	12.2
2409.25	16.4	-62	-67.9	-5.9	2	5.8	12.5
2409.3	16.4	-62	-69.7	-7.7	2	5.4	10.7
2409.35	16.4	-62	-69	-7	2	5.1	11.4
2409.4	16.4	-62	-68.4	-6.4	2	7.9	12
2409.45	16.4	-62	-68.4	-6.4	2	5.9	12
2409.5	16.4	-62	-68.5	-6.5	2	5.8	11.9
2409.55	16.4	-62	-68.7	-6.7	2	6.8	11.7
2409.6	16.4	-62	-68.6	-6.6	2	4	11.8
2409.65	16.4	-62	-69.6	-7.6	2	4.8	10.8
2409.7	16.4	-62	-68.6	-6.6	2	7	11.8
2409.75	16.4	-62	-68	-6	2	7.5	12.4
2409.8	16.4	-62	-68.7	-6.7	2	6.3	11.7
2409.85	16.4	-62	-68.4	-6.4	2	7.1	12
2409.9	16.4	-62	-69.8	-7.8	2	4.5	10.6
2409.95	16.4	-62	-69.4	-7.4	2	6.3	11
2410	16.4	-62	-69.7	-7.7	2	4.6	10.7
2410.05	16.4	-62	-68.8	-6.8	2	3.7	11.6
2410.1	16.4	-62	-69.1	-7.1	2	6.5	11.3
2410.15	16.4	-62	-68.7	-6.7	2	6.7	11.7
2410.2	16.4	-62	-67.8	-5.8	2	4.6	12.6
2410.25	16.4	-62	-69.1	-7.1	2	6.3	11.3
2410.3	16.4	-62	-68.5	-6.5	2	6.2	11.9
2410.35	16.4	-62	-68.3	-6.3	2	5.4	12.1

2410.4	16.4	-62	-68.5	-6.5	2	4.5	11.9
2410.45	16.4	-62	-68.7	-6.7	2	5.4	11.7
2410.5	16.4	-62	-68.4	-6.4	2	4.5	12
2410.55	16.4	-62	-68	-6	2	4	12.4
2410.6	16.4	-62	-68.3	-6.3	2	4.4	12.1
2410.65	16.4	-62	-67.8	-5.8	2	4.6	12.6
2410.7	16.4	-62	-68	-6	2	6.6	12.4
2410.75	16.4	-62	-68.5	-6.5	2	7.6	11.9
2410.8	16.4	-62	-69.4	-7.4	2	4.8	11
2410.85	16.4	-62	-69.4	-7.4	2	6.9	11
2410.9	16.4	-62	-68.8	-6.8	2	5.4	11.6
2410.95	16.4	-62	-68	-6	2	5.5	12.4
2411	16.4	-62	-68.1	-6.1	2	3.9	12.3
2411.05	16.4	-62	-67.7	-5.7	2	5.3	12.7
2411.1	16.4	-62	-69.1	-7.1	2	6.5	11.3
2411.15	16.4	-62	-67.5	-5.5	2	7	12.9
2411.2	16.4	-62	-68.6	-6.6	2	6	11.8
2411.25	16.4	-62	-69.2	-7.2	2	7	11.2
2411.3	16.4	-62	-68.5	-6.5	2	7.2	11.9
2411.35	16.4	-62	-69.1	-7.1	2	4.7	11.3
2411.4	16.4	-62	-69.3	-7.3	2	6.1	11.1
2411.45	16.4	-62	-68.2	-6.2	2	6.2	12.2
2411.5	16.4	-62	-68.1	-6.1	2	6.6	12.3
2411.55	16.4	-62	-68.6	-6.6	2	4.6	11.8
2411.6	16.4	-62	-67.7	-5.7	2	5.7	12.7
2411.65	16.4	-62	-68.8	-6.8	2	6.8	11.6
2411.7	16.4	-62	-68.4	-6.4	2	7.5	12
2411.75	16.4	-62	-69	-7	2	5.1	11.4
2411.8	16.4	-62	-69.8	-7.8	2	4.3	10.6
2411.85	16.4	-62	-68.3	-6.3	2	7.3	12.1
2411.9	16.4	-62	-69.5	-7.5	2	5.8	10.9
2411.95	16.4	-62	-68.1	-6.1	2	6.9	12.3
2412	16.4	-62	-69.3	-7.3	2	4.1	11.1
2412.05	16.4	-62	-69.2	-7.2	2	5.9	11.2
2412.1	16.4	-62	-68.9	-6.9	2	6.3	11.5
2412.15	16.4	-62	-68.1	-6.1	2	5.7	12.3

2412.2	16.4	-62	-68	-6	2	7	12.4
2412.25	16.4	-62	-68.7	-6.7	2	6.8	11.7
2412.3	16.4	-62	-68.1	-6.1	2	5.9	12.3
2412.35	16.4	-62	-68.4	-6.4	2	7.4	12
2412.4	16.4	-62	-68.6	-6.6	2	7.4	11.8
2412.45	16.4	-62	-67.6	-5.6	2	6.7	12.8
2412.5	16.4	-62	-68.3	-6.3	2	6.4	12.1
2412.55	16.4	-62	-67.4	-5.4	2	7	13
2412.6	16.4	-62	-68.8	-6.8	2	4.9	11.6
2412.65	16.4	-62	-67.5	-5.5	2	6.7	12.9
2412.7	16.4	-62	-67.4	-5.4	2	6.9	13
2412.75	16.4	-62	-67.5	-5.5	2	6	12.9
2412.8	16.4	-62	-68.5	-6.5	2	6.7	11.9
2412.85	16.4	-62	-67.3	-5.3	2	4.9	13.1
2412.9	16.4	-62	-68.4	-6.4	2	6.1	12
2412.95	16.4	-62	-67.1	-5.1	2	5	13.3
2413	16.4	-62	-67.3	-5.3	2	5.1	13.1
2413.05	16.4	-62	-68.9	-6.9	2	5.7	11.5
2413.1	16.4	-62	-67.7	-5.7	2	4.4	12.7
2413.15	16.4	-62	-67.9	-5.9	2	4.6	12.5
2413.2	16.4	-62	-68.6	-6.6	2	6.4	11.8
2413.25	16.4	-62	-67.5	-5.5	2	4.8	12.9
2413.3	16.4	-62	-69.3	-7.3	2	3.8	11.1
2413.35	16.4	-62	-68.9	-6.9	2	6.5	11.5
2413.4	16.4	-62	-68	-6	2	6.7	12.4
2413.45	16.4	-62	-67.8	-5.8	2	4.1	12.6
2413.5	16.4	-62	-69.2	-7.2	2	4.8	11.2
2413.55	16.4	-62	-67.9	-5.9	2	5.9	12.5
2413.6	16.4	-62	-67.9	-5.9	2	4	12.5
2413.65	16.4	-62	-69.1	-7.1	2	6.5	11.3
2413.7	16.4	-62	-67.8	-5.8	2	6.9	12.6
2413.75	16.4	-62	-68.1	-6.1	2	4	12.3
2413.8	16.4	-62	-68	-6	2	7.3	12.4
2413.85	16.4	-62	-68.2	-6.2	2	6	12.2
2413.9	16.4	-62	-68.4	-6.4	2	6.1	12
2413.95	16.4	-62	-68.8	-6.8	2	6.1	11.6

2414	16.4	-62	-68.1	-6.1	2	5.8	12.3
2414.05	16.4	-62	-69.4	-7.4	2	5.7	11
2414.1	16.4	-62	-69.3	-7.3	2	5.1	11.1
2414.15	16.4	-62	-68	-6	2	5	12.4
2414.2	16.4	-62	-67.9	-5.9	2	3.7	12.5
2414.25	16.4	-62	-69.3	-7.3	2	7.5	11.1
2414.3	16.4	-62	-68.5	-6.5	2	6.3	11.9
2414.35	16.4	-62	-67.6	-5.6	2	5.6	12.8
2414.4	16.4	-62	-68.6	-6.6	2	6.3	11.8
2414.45	16.4	-62	-69	-7	2	4.8	11.4
2414.5	16.4	-62	-68.6	-6.6	2	5.8	11.8
2414.55	16.4	-62	-69.2	-7.2	2	4.6	11.2
2414.6	16.4	-62	-68.6	-6.6	2	6.2	11.8
2414.65	16.4	-62	-68.5	-6.5	2	7.4	11.9
2414.7	16.4	-62	-68.4	-6.4	2	5.6	12
2414.75	16.4	-62	-68.6	-6.6	2	4.5	11.8
2414.8	16.4	-62	-68.9	-6.9	2	5.1	11.5
2414.85	16.4	-62	-69.2	-7.2	2	4	11.2
2414.9	16.4	-62	-68.2	-6.2	2	6.7	12.2
2414.95	16.4	-62	-68.4	-6.4	2	4.7	12
2415	16.4	-62	-68.9	-6.9	2	7.4	11.5
2415.05	16.4	-62	-68.2	-6.2	2	4.4	12.2
2415.1	16.4	-62	-67.3	-5.3	2	5.3	13.1
2415.15	16.4	-62	-68.7	-6.7	2	6.7	11.7
2415.2	16.4	-62	-66.9	-4.9	2	4.2	13.5
2415.25	16.4	-62	-68.6	-6.6	2	5.8	11.8
2415.3	16.4	-62	-67.3	-5.3	2	6.7	13.1
2415.35	16.4	-62	-68.7	-6.7	2	7.5	11.7
2415.4	16.4	-62	-68	-6	2	5.9	12.4
2415.45	16.4	-62	-68.8	-6.8	2	7.4	11.6
2415.5	16.4	-62	-68.3	-6.3	2	6.4	12.1
2415.55	16.4	-62	-68.1	-6.1	2	7.9	12.3
2415.6	16.4	-62	-67.6	-5.6	2	5.1	12.8
2415.65	16.4	-62	-66.9	-4.9	2	6.3	13.5
2415.7	16.4	-62	-66.7	-4.7	2	5.4	13.7
2415.75	16.4	-62	-67.6	-5.6	2	6.8	12.8

2415.8	16.4	-62	-66.6	-4.6	2	5.7	13.8
2415.85	16.4	-62	-66.7	-4.7	2	5.9	13.7
2415.9	16.4	-62	-67.4	-5.4	2	4.9	13
2415.95	16.4	-62	-67.1	-5.1	2	6.1	13.3
2416	16.4	-62	-66.5	-4.5	2	5.8	13.9
2416.05	16.4	-62	-66.5	-4.5	2	6.7	13.9
2416.1	16.4	-62	-66.9	-4.9	2	6.4	13.5
2416.15	16.4	-62	-67.4	-5.4	2	4.5	13
2416.2	16.4	-62	-66.3	-4.3	2	7.9	14.1
2416.25	16.4	-62	-67.5	-5.5	2	6.6	12.9
2416.3	16.4	-62	-67.2	-5.2	2	5.7	13.2
2416.35	16.4	-62	-67.1	-5.1	2	6	13.3
2416.4	16.4	-62	-66	-4	2	5.5	14.4
2416.45	16.4	-62	-66.3	-4.3	2	4.8	14.1
2416.5	16.4	-62	-67	-5	2	5.9	13.4
2416.55	16.4	-62	-67	-5	2	6.5	13.4
2416.6	16.4	-62	-67.2	-5.2	2	6.3	13.2
2416.65	16.4	-62	-66.2	-4.2	2	5.9	14.2
2416.7	16.4	-62	-66.1	-4.1	2	6.2	14.3
2416.75	16.4	-62	-65.8	-3.8	2	6.4	14.6
2416.8	16.4	-62	-66.6	-4.6	2	7.3	13.8
2416.85	16.4	-62	-66.5	-4.5	2	5.5	13.9
2416.9	16.4	-62	-66.9	-4.9	2	5	13.5
2416.95	16.4	-62	-66.3	-4.3	2	6.5	14.1
2417	16.4	-62	-65.7	-3.7	2	4.6	14.7
2417.05	16.4	-62	-65.1	-3.1	2	4.2	15.3
2417.1	16.4	-62	-65.8	-3.8	2	6.3	14.6
2417.15	16.4	-62	-65	-3	2	3.8	15.4
2417.2	16.4	-62	-65.2	-3.2	2	4.5	15.2
2417.25	16.4	-62	-64.3	-2.3	2	5.3	16.1
2417.3	16.4	-62	-65.3	-3.3	2	5.1	15.1
2417.35	16.4	-62	-64.4	-2.4	2	4.6	16
2417.4	16.4	-62	-64.9	-2.9	2	6.7	15.5
2417.45	16.4	-62	-64.7	-2.7	2	3.7	15.7
2417.5	16.4	-62	-63.5	-1.5	2	3.5	16.9
2417.55	16.4	-62	-63.5	-1.5	2	4.6	16.9

2417.6	16.4	-62	-63.4	-1.4	2	7.3	17
2417.65	16.4	-62	-64	-2	2	5.8	16.4
2417.7	16.4	-62	-63.7	-1.7	2	5.6	16.7
2417.75	16.4	-62	-62.5	-0.5	2	4.7	17.9
2417.8	16.4	-62	-63.8	-1.8	2	6.3	16.6
2417.85	16.4	-62	-62.2	-0.2	2	7.3	18.2
2417.9	16.4	-62	-62.3	-0.3	2	7	18.1
2417.95	16.4	-62	-63.2	-1.2	2	4.3	17.2
2418	16.4	-62	-63.2	-1.2	2	5.6	17.2
2418.05	16.4	-62	-62.8	-0.8	2	5.3	17.6
2418.1	16.4	-62	-64.1	-2.1	2	7.4	16.3
2418.15	16.4	-62	-63.4	-1.4	2	6.3	17
2418.2	16.4	-62	-63	-1	2	7	17.4
2418.25	16.4	-62	-62.2	-0.2	2	3.9	18.2
2418.3	16.4	-62	-62.5	-0.5	2	6.2	17.9
2418.35	16.4	-62	-62.4	-0.4	2	5.6	18
2418.4	16.4	-62	-62.1	-0.1	2	6.1	18.3
2418.45	16.4	-62	-62.6	-0.6	2	6.3	17.8
2418.5	16.4	-62	-62.4	-0.4	2	6.9	18
2418.55	16.4	-62	-61.6	0.4	2	4.3	18.8
2418.6	16.4	-62	-61.7	0.3	2	5.2	18.7
2418.65	16.4	-62	-61.2	0.8	2	5.3	19.2
2418.7	16.4	-62	-62.6	-0.6	2	7.8	17.8
2418.75	16.4	-62	-61.9	0.1	2	7.5	18.5
2418.8	16.4	-62	-61.5	0.5	2	6.3	18.9
2418.85	16.4	-62	-62.5	-0.5	2	3.9	17.9
2418.9	16.4	-62	-62.3	-0.3	2	5.9	18.1
2418.95	16.4	-62	-61.8	0.2	2	7.4	18.6
2419	16.4	-62	-62	0	2	6.7	18.4
2419.05	16.4	-62	-61.3	0.7	2	6.5	19.1
2419.1	16.4	-62	-61.2	0.8	2	7.2	19.2
2419.15	16.4	-62	-61.5	0.5	2	6.7	18.9
2419.2	16.4	-62	-62.7	-0.7	2	7.1	17.7
2419.25	16.4	-62	-61.6	0.4	2	4.4	18.8
2419.3	16.4	-62	-62.7	-0.7	2	5	17.7
2419.35	16.4	-62	-62.5	-0.5	2	4.3	17.9

2419.4	16.4	-62	-61.9	0.1	2	5.4	18.5
2419.45	16.4	-62	-62.3	-0.3	2	4.1	18.1
2419.5	16.4	-62	-61.7	0.3	2	4.7	18.7
2419.55	16.4	-62	-60.9	1.1	2	5.8	19.5
2419.6	16.4	-62	-61	1	2	7.6	19.4
2419.65	16.4	-62	-60.6	1.4	2	5.2	19.8
2419.7	16.4	-62	-60.9	1.1	2	5	19.5
2419.75	16.4	-62	-60.6	1.4	2	5.3	19.8
2419.8	16.4	-62	-59.9	2.1	2	7.3	20.5
2419.85	16.4	-62	-60.9	1.1	2	5.8	19.5
2419.9	16.4	-62	-60.9	1.1	2	5.6	19.5
2419.95	16.4	-62	-60.3	1.7	2	4.2	20.1
2420	16.4	-62	-59.7	2.3	2	5.3	20.7
2420.05	16.4	-62	-61.8	0.2	2	6.2	18.6
2420.1	16.4	-62	-60.4	1.6	2	6.6	20
2420.15	16.4	-62	-61.1	0.9	2	6.6	19.3
2420.2	16.4	-62	-60.3	1.7	2	6.2	20.1
2420.25	16.4	-62	-60.6	1.4	2	6.7	19.8
2420.3	16.4	-62	-61.6	0.4	2	4.6	18.8
2420.35	16.4	-62	-60.2	1.8	2	5	20.2
2420.4	16.4	-62	-61	1	2	5.2	19.4
2420.45	16.4	-62	-59.9	2.1	2	5.2	20.5
2420.5	16.4	-62	-60.8	1.2	2	6.5	19.6
Processing Gain(dB)@20th Percentile=11.9							

(MHz)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(%)	(dB)
2433.5	16.4	-62	-59.3	2.7	2	5.5	21.1
2433.55	16.4	-62	-60.3	1.7	2	6.8	20.1
2433.6	16.4	-62	-60.5	1.5	2	6.4	19.9
2433.65	16.4	-62	-60	2	2	4.5	20.4
2433.7	16.4	-62	-60.4	1.6	2	6.4	20
2433.75	16.4	-62	-62	0	2	5.7	18.4
2433.8	16.4	-62	-60.3	1.7	2	6.3	20.1
2433.85	16.4	-62	-61.5	0.5	2	6.2	18.9
2433.9	16.4	-62	-61.5	0.5	2	4	18.9
2433.95	16.4	-62	-60.3	1.7	2	4.4	20.1
2434	16.4	-62	-61.2	0.8	2	5.3	19.2
2434.05	16.4	-62	-59.9	2.1	2	6	20.5
2434.1	16.4	-62	-60.2	1.8	2	4.8	20.2
2434.15	16.4	-62	-60.1	1.9	2	7.1	20.3
2434.2	16.4	-62	-60	2	2	6.8	20.4

2434.2	16.4	-62	-60	2	2	6.8	20.4
2434.25	16.4	-62	-60.3	1.7	2	7.6	20.1
2434.3	16.4	-62	-60.2	1.8	2	6.8	20.2
2434.35	16.4	-62	-59.9	2.1	2	6.5	20.5
2434.4	16.4	-62	-60.2	1.8	2	5.9	20.2
2434.45	16.4	-62	-61.3	0.7	2	4.7	19.1
2434.5	16.4	-62	-61.4	0.6	2	4.5	19
2434.55	16.4	-62	-62.4	-0.4	2	5.2	18
2434.6	16.4	-62	-60.9	1.1	2	6	19.5
2434.65	16.4	-62	-60.8	1.2	2	4.3	19.6
2434.7	16.4	-62	-61.8	0.2	2	4.7	18.6
2434.75	16.4	-62	-62.2	-0.2	2	6.4	18.2
2434.8	16.4	-62	-61.1	0.9	2	6.5	19.3
2434.85	16.4	-62	-61.3	0.7	2	6.6	19.1
2434.9	16.4	-62	-62.4	-0.4	2	4.6	18
2434.95	16.4	-62	-61.3	0.7	2	5.2	19.1
2435	16.4	-62	-61	1	2	6.9	19.4
2435.05	16.4	-62	-62.3	-0.3	2	4.9	18.1
2435.1	16.4	-62	-60.8	1.2	2	7.1	19.6
2435.15	16.4	-62	-61.6	0.4	2	5.8	18.8
2435.2	16.4	-62	-61.7	0.3	2	5.7	18.7
2435.25	16.4	-62	-60.8	1.2	2	3.7	19.6
2435.3	16.4	-62	-61	1	2	4.1	19.4
2435.35	16.4	-62	-61.3	0.7	2	7.8	19.1
2435.4	16.4	-62	-62.4	-0.4	2	5.4	18
2435.45	16.4	-62	-61.4	0.6	2	4.9	19
2435.5	16.4	-62	-62	0	2	7.2	18.4
2435.55	16.4	-62	-62.4	-0.4	2	5.3	18
2435.6	16.4	-62	-63.5	-1.5	2	5.8	16.9
2435.65	16.4	-62	-62.3	-0.3	2	5.4	18.1
2435.7	16.4	-62	-63.8	-1.8	2	4.6	16.6
2435.75	16.4	-62	-63.3	-1.3	2	7.1	17.1
2435.8	16.4	-62	-63.1	-1.1	2	7.4	17.3
2435.85	16.4	-62	-62.8	-0.8	2	6.3	17.6
2435.9	16.4	-62	-63.7	-1.7	2	5.6	16.7
2435.95	16.4	-62	-63.7	-1.7	2	6.6	16.7

2436	16.4	-62	-63.6	-1.6	2	4.3	16.8
2436.05	16.4	-62	-64.1	-2.1	2	5.2	16.3
2436.1	16.4	-62	-62.8	-0.8	2	5	17.6
2436.15	16.4	-62	-63.4	-1.4	2	6.3	17
2436.2	16.4	-62	-62.9	-0.9	2	5.1	17.5
2436.25	16.4	-62	-63.5	-1.5	2	7.8	16.9
2436.3	16.4	-62	-63.8	-1.8	2	5.2	16.6
2436.35	16.4	-62	-63.4	-1.4	2	5.2	17
2436.4	16.4	-62	-65.2	-3.2	2	4.4	15.2
2436.45	16.4	-62	-64.1	-2.1	2	6.9	16.3
2436.5	16.4	-62	-64	-2	2	6.9	16.4
2436.55	16.4	-62	-64.7	-2.7	2	7.1	15.7
2436.6	16.4	-62	-65.3	-3.3	2	4.5	15.1
2436.65	16.4	-62	-65	-3	2	7.5	15.4
2436.7	16.4	-62	-65.1	-3.1	2	7.2	15.3
2436.75	16.4	-62	-63.9	-1.9	2	7.6	16.5
2436.8	16.4	-62	-65.9	-3.9	2	4.7	14.5
2436.85	16.4	-62	-65.2	-3.2	2	6	15.2
2436.9	16.4	-62	-64.1	-2.1	2	3.8	16.3
2436.95	16.4	-62	-66.1	-4.1	2	7.1	14.3
2437	16.4	-62	-65.5	-3.5	2	7.2	14.9
2437.05	16.4	-62	-66.2	-4.2	2	4.7	14.2
2437.1	16.4	-62	-65.9	-3.9	2	6.6	14.5
2437.15	16.4	-62	-66.1	-4.1	2	6.3	14.3
2437.2	16.4	-62	-64.7	-2.7	2	7.1	15.7
2437.25	16.4	-62	-65	-3	2	6.6	15.4
2437.3	16.4	-62	-66.3	-4.3	2	3.6	14.1
2437.35	16.4	-62	-66.1	-4.1	2	4.7	14.3
2437.4	16.4	-62	-65.9	-3.9	2	5.2	14.5
2437.45	16.4	-62	-65.1	-3.1	2	6.3	15.3
2437.5	16.4	-62	-67	-5	2	4.2	13.4
2437.55	16.4	-62	-66.3	-4.3	2	6.6	14.1
2437.6	16.4	-62	-66.8	-4.8	2	4.3	13.6
2437.65	16.4	-62	-66.9	-4.9	2	5.7	13.5
2437.7	16.4	-62	-66.5	-4.5	2	4.4	13.9
2437.75	16.4	-62	-66.5	-4.5	2	6.8	13.9

2437.8	16.4	-62	-67.2	-5.2	2	5.9	13.2
2437.85	16.4	-62	-67.2	-5.2	2	5.8	13.2
2437.9	16.4	-62	-66.5	-4.5	2	4.3	13.9
2437.95	16.4	-62	-66.9	-4.9	2	4.6	13.5
2438	16.4	-62	-66.1	-4.1	2	5.5	14.3
2438.05	16.4	-62	-66.5	-4.5	2	4	13.9
2438.1	16.4	-62	-66.7	-4.7	2	5.4	13.7
2438.15	16.4	-62	-67.6	-5.6	2	7.2	12.8
2438.2	16.4	-62	-66.2	-4.2	2	4.5	14.2
2438.25	16.4	-62	-67.5	-5.5	2	7.3	12.9
2438.3	16.4	-62	-67.1	-5.1	2	6.8	13.3
2438.35	16.4	-62	-67.5	-5.5	2	4.9	12.9
2438.4	16.4	-62	-68.3	-6.3	2	5.9	12.1
2438.45	16.4	-62	-67.6	-5.6	2	4.8	12.8
2438.5	16.4	-62	-66.8	-4.8	2	3.9	13.6
2438.55	16.4	-62	-67.5	-5.5	2	4.8	12.9
2438.6	16.4	-62	-67.3	-5.3	2	5.9	13.1
2438.65	16.4	-62	-68.6	-6.6	2	7.4	11.8
2438.7	16.4	-62	-67.2	-5.2	2	4.5	13.2
2438.75	16.4	-62	-67.7	-5.7	2	4.8	12.7
2438.8	16.4	-62	-67.1	-5.1	2	6.8	13.3
2438.85	16.4	-62	-67.3	-5.3	2	6.9	13.1
2438.9	16.4	-62	-68	-6	2	3.9	12.4
2438.95	16.4	-62	-68.1	-6.1	2	5	12.3
2439	16.4	-62	-68.3	-6.3	2	4.4	12.1
2439.05	16.4	-62	-69	-7	2	5	11.4
2439.1	16.4	-62	-69.4	-7.4	2	5.3	11
2439.15	16.4	-62	-69.5	-7.5	2	5.2	10.9
2439.2	16.4	-62	-69.3	-7.3	2	4.5	11.1
2439.25	16.4	-62	-69.4	-7.4	2	6.9	11
2439.3	16.4	-62	-69.5	-7.5	2	4	10.9
2439.35	16.4	-62	-67.9	-5.9	2	6.6	12.5
2439.4	16.4	-62	-69.2	-7.2	2	5.9	11.2
2439.45	16.4	-62	-69.1	-7.1	2	4.3	11.3
2439.5	16.4	-62	-68.5	-6.5	2	4.6	11.9
2439.55	16.4	-62	-69.4	-7.4	2	6	11

2439.6	16.4	-62	-69.2	-7.2	2	6.4	11.2
2439.65	16.4	-62	-68.5	-6.5	2	5.4	11.9
2439.7	16.4	-62	-68.7	-6.7	2	8	11.7
2439.75	16.4	-62	-68.8	-6.8	2	5.3	11.6
2439.8	16.4	-62	-68.4	-6.4	2	6.9	12
2439.85	16.4	-62	-69.4	-7.4	2	7.1	11
2439.9	16.4	-62	-69.3	-7.3	2	5	11.1
2439.95	16.4	-62	-69	-7	2	6.5	11.4
2440	16.4	-62	-69.7	-7.7	2	7.4	10.7
2440.05	16.4	-62	-69.1	-7.1	2	6.8	11.3
2440.1	16.4	-62	-69.3	-7.3	2	5.9	11.1
2440.15	16.4	-62	-68.3	-6.3	2	7.5	12.1
2440.2	16.4	-62	-69.1	-7.1	2	7.5	11.3
2440.25	16.4	-62	-69.2	-7.2	2	4.8	11.2
2440.3	16.4	-62	-69.5	-7.5	2	5.7	10.9
2440.35	16.4	-62	-68.5	-6.5	2	7.5	11.9
2440.4	16.4	-62	-69.5	-7.5	2	7	10.9
2440.45	16.4	-62	-68.4	-6.4	2	6.9	12
2440.5	16.4	-62	-67.6	-5.6	2	5.2	12.8
2440.55	16.4	-62	-68.4	-6.4	2	7.1	12
2440.6	16.4	-62	-69.8	-7.8	2	6.8	10.6
2440.65	16.4	-62	-68.2	-6.2	2	5.8	12.2
2440.7	16.4	-62	-67.7	-5.7	2	7.3	12.7
2440.75	16.4	-62	-68.3	-6.3	2	4.2	12.1
2440.8	16.4	-62	-68.6	-6.6	2	4.5	11.8
2440.85	16.4	-62	-68.7	-6.7	2	6.2	11.7
2440.9	16.4	-62	-67.9	-5.9	2	7.3	12.5
2440.95	16.4	-62	-68.5	-6.5	2	5.5	11.9
2441	16.4	-62	-69.2	-7.2	2	4.4	11.2
2441.05	16.4	-62	-67.9	-5.9	2	5.3	12.5
2441.1	16.4	-62	-68.4	-6.4	2	5.8	12
2441.15	16.4	-62	-69	-7	2	5.1	11.4
2441.2	16.4	-62	-68.5	-6.5	2	5	11.9
2441.25	16.4	-62	-67.8	-5.8	2	6.4	12.6
2441.3	16.4	-62	-68.4	-6.4	2	5.5	12
2441.35	16.4	-62	-68.7	-6.7	2	5.7	11.7

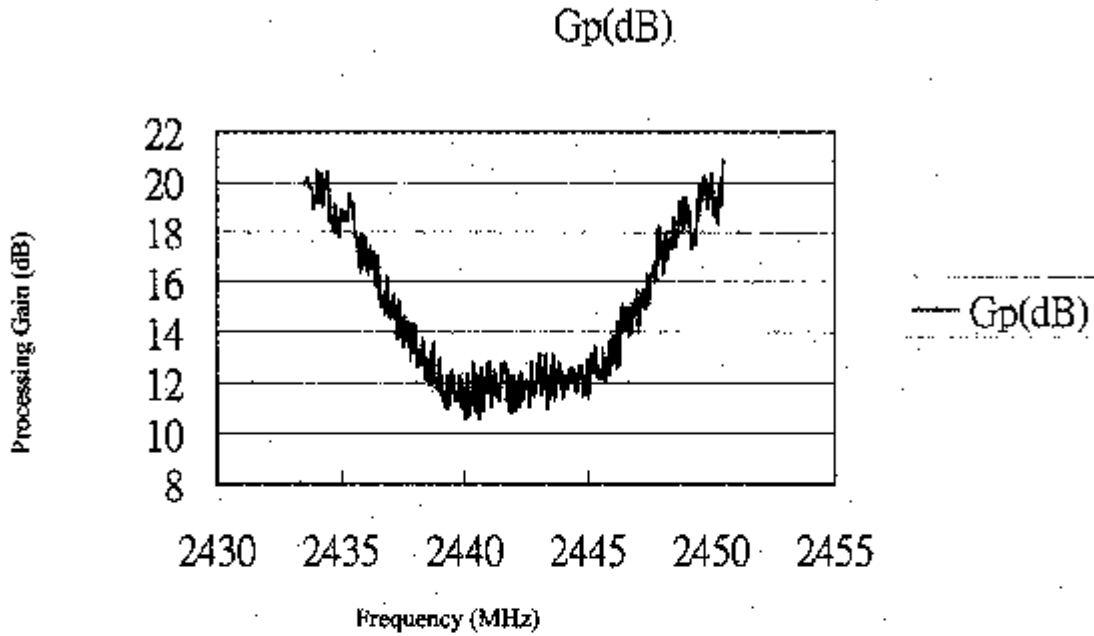
2441.4	16.4	-62	-69	-7	2	5.3	11.4
2441.45	16.4	-62	-68.9	-6.9	2	4.7	11.5
2441.5	16.4	-62	-68.5	-6.5	2	6.4	11.9
2441.55	16.4	-62	-67.7	-5.7	2	5.3	12.7
2441.6	16.4	-62	-68.8	-6.8	2	4.2	11.6
2441.65	16.4	-62	-68.1	-6.1	2	5.9	12.3
2441.7	16.4	-62	-68.2	-6.2	2	6.5	12.2
2441.75	16.4	-62	-69.1	-7.1	2	6.3	11.3
2441.8	16.4	-62	-67.9	-5.9	2	7.1	12.5
2441.85	16.4	-62	-69.7	-7.7	2	6.8	10.7
2441.9	16.4	-62	-68.3	-6.3	2	5.8	12.1
2441.95	16.4	-62	-70	-8	2	6	10.4
2442	16.4	-62	-69.2	-7.2	2	6.5	11.2
2442.05	16.4	-62	-69.8	-7.8	2	7.3	10.6
2442.1	16.4	-62	-68.6	-6.6	2	4.6	11.8
2442.15	16.4	-62	-68.5	-6.5	2	4.5	11.9
2442.2	16.4	-62	-69.4	-7.4	2	6.1	11
2442.25	16.4	-62	-68.3	-6.3	2	6.3	12.1
2442.3	16.4	-62	-67.4	-5.4	2	4.9	13
2442.35	16.4	-62	-68.8	-6.8	2	4	11.6
2442.4	16.4	-62	-68.3	-6.3	2	4.3	12.1
2442.45	16.4	-62	-69.1	-7.1	2	4.4	11.3
2442.5	16.4	-62	-68.7	-6.7	2	5.9	11.7
2442.55	16.4	-62	-68.2	-6.2	2	7.1	12.2
2442.6	16.4	-62	-68.5	-6.5	2	6.9	11.9
2442.65	16.4	-62	-68.9	-6.9	2	7.7	11.5
2442.7	16.4	-62	-67.3	-5.3	2	6.3	13.1
2442.75	16.4	-62	-67.8	-5.8	2	7.4	12.6
2442.8	16.4	-62	-67.5	-5.5	2	5.7	12.9
2442.85	16.4	-62	-68	-6	2	6.2	12.4
2442.9	16.4	-62	-67.2	-5.2	2	5.3	13.2
2442.95	16.4	-62	-69.1	-7.1	2	5	11.3
2443	16.4	-62	-68.7	-6.7	2	5.4	11.7
2443.05	16.4	-62	-67.1	-5.1	2	4	13.3
2443.1	16.4	-62	-67.2	-5.2	2	6.9	13.2
2443.15	16.4	-62	-68.6	-6.6	2	5	11.8

2443.2	16.4	-62	-68.7	-6.7	2	5.3	11.7
2443.25	16.4	-62	-68.1	-6.1	2	5.8	12.3
2443.3	16.4	-62	-68.3	-6.3	2	7.9	12.1
2443.35	16.4	-62	-68.4	-6.4	2	4.6	12
2443.4	16.4	-62	-69	-7	2	5.9	11.4
2443.45	16.4	-62	-67.7	-5.7	2	6.7	12.7
2443.5	16.4	-62	-67.8	-5.8	2	7.4	12.6
2443.55	16.4	-62	-69	-7	2	5.2	11.4
2443.6	16.4	-62	-69.1	-7.1	2	6.5	11.3
2443.65	16.4	-62	-67.7	-5.7	2	6.5	12.7
2443.7	16.4	-62	-67.2	-5.2	2	4.3	13.2
2443.75	16.4	-62	-69.2	-7.2	2	4.6	11.2
2443.8	16.4	-62	-67.7	-5.7	2	3.9	12.7
2443.85	16.4	-62	-68.8	-6.8	2	5	11.6
2443.9	16.4	-62	-68.1	-6.1	2	4.4	12.3
2443.95	16.4	-62	-68.9	-6.9	2	6.9	11.5
2444	16.4	-62	-68.2	-6.2	2	5.3	12.2
2444.05	16.4	-62	-69.3	-7.3	2	6	11.1
2444.1	16.4	-62	-69.4	-7.4	2	4.7	11
2444.15	16.4	-62	-69.5	-7.5	2	6.8	10.9
2444.2	16.4	-62	-68	-6	2	6.5	12.4
2444.25	16.4	-62	-69	-7	2	5.5	11.4
2444.3	16.4	-62	-67.6	-5.6	2	5.6	12.8
2444.35	16.4	-62	-68.3	-6.3	2	4.9	12.1
2444.4	16.4	-62	-67.9	-5.9	2	6.2	12.5
2444.45	16.4	-62	-68.2	-6.2	2	7.5	12.2
2444.5	16.4	-62	-69.4	-7.4	2	5.6	11
2444.55	16.4	-62	-68.1	-6.1	2	7.4	12.3
2444.6	16.4	-62	-67.8	-5.8	2	5.2	12.6
2444.65	16.4	-62	-67.7	-5.7	2	4.4	12.7
2444.7	16.4	-62	-68.1	-6.1	2	7.4	12.3
2444.75	16.4	-62	-69	-7	2	6.1	11.4
2444.8	16.4	-62	-68	-6	2	6.9	12.4
2444.85	16.4	-62	-67.8	-5.8	2	6.9	12.6
2444.9	16.4	-62	-68.3	-6.3	2	5.6	12.1
2444.95	16.4	-62	-69	-7	2	6.3	11.4

2445	16.4	-62	-67.7	-5.7	2	6.1	12.7
2445.05	16.4	-62	-67.3	-5.3	2	7.3	13.1
2445.1	16.4	-62	-67.6	-5.6	2	4	12.8
2445.15	16.4	-62	-67.3	-5.3	2	4.4	13.1
2445.2	16.4	-62	-68.7	-6.7	2	4.3	11.7
2445.25	16.4	-62	-68.1	-6.1	2	4.9	12.3
2445.3	16.4	-62	-66.9	-4.9	2	6.9	13.5
2445.35	16.4	-62	-66.9	-4.9	2	6.3	13.5
2445.4	16.4	-62	-68.9	-6.9	2	7.5	11.5
2445.45	16.4	-62	-68.8	-6.8	2	4.4	11.6
2445.5	16.4	-62	-67.8	-5.8	2	6.6	12.6
2445.55	16.4	-62	-66.9	-4.9	2	6.2	13.5
2445.6	16.4	-62	-67.3	-5.3	2	7.2	13.1
2445.65	16.4	-62	-67.2	-5.2	2	6.8	13.2
2445.7	16.4	-62	-67.3	-5.3	2	6.1	13.1
2445.75	16.4	-62	-67.5	-5.5	2	5	12.9
2445.8	16.4	-62	-67	-5	2	4.2	13.4
2445.85	16.4	-62	-67.9	-5.9	2	7.7	12.5
2445.9	16.4	-62	-66.7	-4.7	2	4.5	13.7
2445.95	16.4	-62	-66.4	-4.4	2	7.6	14
2446	16.4	-62	-66.8	-4.8	2	4.8	13.6
2446.05	16.4	-62	-67.5	-5.5	2	6.9	12.9
2446.1	16.4	-62	-67.8	-5.8	2	7.8	12.6
2446.15	16.4	-62	-66.7	-4.7	2	5.7	13.7
2446.2	16.4	-62	-66	-4	2	6	14.4
2446.25	16.4	-62	-66.2	-4.2	2	5.1	14.2
2446.3	16.4	-62	-66.2	-4.2	2	3.8	14.2
2446.35	16.4	-62	-67	-5	2	4.5	13.4
2446.4	16.4	-62	-65.5	-3.5	2	5.5	14.9
2446.45	16.4	-62	-65.5	-3.5	2	6.8	14.9
2446.5	16.4	-62	-65.9	-3.9	2	4.6	14.5
2446.55	16.4	-62	-65.4	-3.4	2	4.7	15
2446.6	16.4	-62	-66.8	-4.8	2	4.6	13.6
2446.65	16.4	-62	-66	-4	2	5	14.4
2446.7	16.4	-62	-65.5	-3.5	2	7.6	14.9
2446.75	16.4	-62	-65.3	-3.3	2	4.6	15.1

2446.8	16.4	-62	-67.1	-5.1	2	4.4	13.3
2446.85	16.4	-62	-66.3	-4.3	2	6.4	14.1
2446.9	16.4	-62	-66.6	-4.6	2	6.9	13.8
2446.95	16.4	-62	-65.1	-3.1	2	6.7	15.3
2447	16.4	-62	-66.5	-4.5	2	5.1	13.9
2447.05	16.4	-62	-66	-4	2	5.7	14.4
2447.1	16.4	-62	-65.6	-3.6	2	5	14.8
2447.15	16.4	-62	-65.2	-3.2	2	4.3	15.2
2447.2	16.4	-62	-65.2	-3.2	2	6.2	15.2
2447.25	16.4	-62	-65.3	-3.3	2	5.5	15.1
2447.3	16.4	-62	-64.9	-2.9	2	5.7	15.5
2447.35	16.4	-62	-64	-2	2	5.1	16.4
2447.4	16.4	-62	-65.1	-3.1	2	4.5	15.3
2447.45	16.4	-62	-65	-3	2	5.8	15.4
2447.5	16.4	-62	-64.2	-2.2	2	6.4	16.2
2447.55	16.4	-62	-64.5	-2.5	2	4.1	15.9
2447.6	16.4	-62	-63.4	-1.4	2	4.4	17
2447.65	16.4	-62	-64.3	-2.3	2	6.4	16.1
2447.7	16.4	-62	-63.8	-1.8	2	5.1	16.6
2447.75	16.4	-62	-62.7	-0.7	2	6.7	17.7
2447.8	16.4	-62	-63.6	-1.6	2	5.8	16.8
2447.85	16.4	-62	-64.2	-2.2	2	7.2	16.2
2447.9	16.4	-62	-62.3	-0.3	2	5	18.1
2447.95	16.4	-62	-62.8	-0.8	2	7	17.6
2448	16.4	-62	-62.4	-0.4	2	5	18
2448.05	16.4	-62	-62.7	-0.7	2	5.8	17.7
2448.1	16.4	-62	-63.4	-1.4	2	4.1	17
2448.15	16.4	-62	-63.9	-1.9	2	4.6	16.5
2448.2	16.4	-62	-63.7	-1.7	2	5.9	16.7
2448.25	16.4	-62	-63.1	-1.1	2	4.6	17.3
2448.3	16.4	-62	-63.5	-1.5	2	5.7	16.9
2448.35	16.4	-62	-63.8	-1.8	2	5.5	16.6
2448.4	16.4	-62	-62	0	2	6.6	18.4
2448.45	16.4	-62	-62.8	-0.8	2	6.2	17.6
2448.5	16.4	-62	-63	-1	2	4.3	17.4
2448.55	16.4	-62	-61.6	0.4	2	5.5	18.8

2448.6	16.4	-62	-61.6	0.4	2	4.4	18.8
2448.65	16.4	-62	-62	0	2	7.7	18.4
2448.7	16.4	-62	-61.9	0.1	2	6.9	18.5
2448.75	16.4	-62	-62.3	-0.3	2	4.8	18.1
2448.8	16.4	-62	-62.1	-0.1	2	6.9	18.3
2448.85	16.4	-62	-61	1	2	5.4	19.4
2448.9	16.4	-62	-60.8	1.2	2	7.5	19.6
2448.95	16.4	-62	-61.7	0.3	2	6.7	18.7
2449	16.4	-62	-62.1	-0.1	2	7.5	18.3
2449.05	16.4	-62	-62.3	-0.3	2	6.2	18.1
2449.1	16.4	-62	-62.2	-0.2	2	4.6	18.2
2449.15	16.4	-62	-62.4	-0.4	2	7.7	18
2449.2	16.4	-62	-61.4	0.6	2	4.8	19
2449.25	16.4	-62	-63.1	-1.1	2	5.9	17.3
2449.3	16.4	-62	-61.3	0.7	2	4.8	19.1
2449.35	16.4	-62	-61.6	0.4	2	5.3	18.8
2449.4	16.4	-62	-62.3	-0.3	2	5.1	18.1
2449.45	16.4	-62	-62.5	-0.5	2	6.7	17.9
2449.5	16.4	-62	-60.7	1.3	2	7.1	19.7
2449.55	16.4	-62	-61.7	0.3	2	7	18.7
2449.6	16.4	-62	-60	2	2	5.3	20.4
2449.65	16.4	-62	-60.6	1.4	2	4.5	19.8
2449.7	16.4	-62	-60.8	1.2	2	6.4	19.6
2449.75	16.4	-62	-61.6	0.4	2	7.7	18.8
2449.8	16.4	-62	-61.3	0.7	2	6.4	19.1
2449.85	16.4	-62	-60.3	1.7	2	5.3	20.1
2449.9	16.4	-62	-60.9	1.1	2	6.5	19.5
2449.95	16.4	-62	-61.5	0.5	2	5.1	18.9
2450	16.4	-62	-59.7	2.3	2	5.8	20.7
2450.05	16.4	-62	-60.9	1.1	2	4.5	19.5
2450.1	16.4	-62	-61	1	2	6	19.4
2450.15	16.4	-62	-61.3	0.7	2	3.6	19.1
2450.2	16.4	-62	-61.3	0.7	2	4.3	19.1
2450.25	16.4	-62	-60.1	1.9	2	5.1	20.3
2450.3	16.4	-62	-60.3	1.7	2	7.4	20.1
2450.35	16.4	-62	-60.1	1.9	2	6.1	20.3



11Mbps Channel 11 (2462MHz) Processing Gain							
$G_p = (S/N)_o + L_{sys} + (J_r/S_r)$							
Frequency	(S/N) _o	S _r	J _r	J _r /S _r	L _{sys}	FER	G _p
(MHz)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(%)	(dB)
2453.5	16.4	-62	-60.6	1.4	2	7.1	19.8
2453.55	16.4	-62	-60.4	1.6	2	7.1	20
2453.6	16.4	-62	-61.9	0.1	2	5.2	18.5
2453.65	16.4	-62	-62.2	-0.2	2	6.7	18.2
2453.7	16.4	-62	-61.4	0.6	2	5.5	19
2453.75	16.4	-62	-61.6	0.4	2	3.9	18.8
2453.8	16.4	-62	-62.8	-0.8	2	6.9	17.6
2453.85	16.4	-62	-62.4	-0.4	2	5.3	18

2453.9	16.4	-62	-60.9	1.1	2	6.9	19.5
2453.95	16.4	-62	-61.2	0.8	2	6.2	19.2
2454	16.4	-62	-60.8	1.2	2	6.8	19.6
2454.05	16.4	-62	-61.5	0.5	2	5.4	18.9
2454.1	16.4	-62	-61.3	0.7	2	5.2	19.1
2454.15	16.4	-62	-62	0	2	6.9	18.4
2454.2	16.4	-62	-60.4	1.6	2	5.9	20
2454.25	16.4	-62	-61.9	0.1	2	5.7	18.5
2454.3	16.4	-62	-62.4	-0.4	2	4.5	18
2454.35	16.4	-62	-61.1	0.9	2	7.4	19.3
2454.4	16.4	-62	-61.4	0.6	2	5.6	19
2454.45	16.4	-62	-60.8	1.2	2	6.2	19.6
2454.5	16.4	-62	-61.4	0.6	2	6.7	19
2454.55	16.4	-62	-62.2	-0.2	2	5.1	18.2
2454.6	16.4	-62	-62	0	2	5.5	18.4
2454.65	16.4	-62	-62	0	2	6.5	18.4
2454.7	16.4	-62	-62.2	-0.2	2	5.1	18.2
2454.75	16.4	-62	-63.1	-1.1	2	5.6	17.3
2454.8	16.4	-62	-63.2	-1.2	2	5.8	17.2
2454.85	16.4	-62	-61.6	0.4	2	5.1	18.8
2454.9	16.4	-62	-63.1	-1.1	2	4.1	17.3
2454.95	16.4	-62	-61.4	0.6	2	6.8	19
2455	16.4	-62	-62.5	-0.5	2	6.6	17.9
2455.05	16.4	-62	-62.6	-0.6	2	5.4	17.8
2455.1	16.4	-62	-61.3	0.7	2	5.9	19.1
2455.15	16.4	-62	-62	0	2	4.7	18.4
2455.2	16.4	-62	-63.1	-1.1	2	5.9	17.3
2455.25	16.4	-62	-61.5	0.5	2	6	18.9
2455.3	16.4	-62	-62.3	-0.3	2	5.6	18.1
2455.35	16.4	-62	-62.8	-0.8	2	6.2	17.6
2455.4	16.4	-62	-62.7	-0.7	2	7.2	17.7
2455.45	16.4	-62	-61.7	0.3	2	4.2	18.7
2455.5	16.4	-62	-61.7	0.3	2	6.4	18.7
2455.55	16.4	-62	-64.1	-2.1	2	5.7	16.3
2455.6	16.4	-62	-64.2	-2.2	2	5.1	16.2
2455.65	16.4	-62	-63	-1	2	6.2	17.4

2455.7	16.4	-62	-64	-2	2	5.8	16.4
2455.75	16.4	-62	-63.7	-1.7	2	5.3	16.7
2455.8	16.4	-62	-64	-2	2	4.5	16.4
2455.85	16.4	-62	-63.2	-1.2	2	4.1	17.2
2455.9	16.4	-62	-64.4	-2.4	2	4.2	16
2455.95	16.4	-62	-64.1	-2.1	2	7.2	16.3
2456	16.4	-62	-63.9	-1.9	2	6	16.5
2456.05	16.4	-62	-64.5	-2.5	2	4.7	15.9
2456.1	16.4	-62	-63.3	-1.3	2	5.8	17.1
2456.15	16.4	-62	-63.1	-1.1	2	4.2	17.3
2456.2	16.4	-62	-64.3	-2.3	2	4.1	16.1
2456.25	16.4	-62	-64.7	-2.7	2	7	15.7
2456.3	16.4	-62	-64.1	-2.1	2	6.5	16.3
2456.35	16.4	-62	-65.5	-3.5	2	3.7	14.9
2456.4	16.4	-62	-65.2	-3.2	2	5.4	15.2
2456.45	16.4	-62	-65.2	-3.2	2	5.4	15.2
2456.5	16.4	-62	-64.3	-2.3	2	5.9	16.1
2456.55	16.4	-62	-64.3	-2.3	2	4.8	16.1
2456.6	16.4	-62	-64.6	-2.6	2	6.4	15.8
2456.65	16.4	-62	-65	-3	2	6.7	15.4
2456.7	16.4	-62	-65.8	-3.8	2	6	14.6
2456.75	16.4	-62	-65.6	-3.6	2	5.8	14.8
2456.8	16.4	-62	-65.1	-3.1	2	6.2	15.3
2456.85	16.4	-62	-66.4	-4.4	2	5.6	14
2456.9	16.4	-62	-66.2	-4.2	2	7.3	14.2
2456.95	16.4	-62	-66.6	-4.6	2	5.2	13.8
2457	16.4	-62	-64.8	-2.8	2	3.9	15.6
2457.05	16.4	-62	-65.7	-3.7	2	6.6	14.7
2457.1	16.4	-62	-66.2	-4.2	2	6.7	14.2
2457.15	16.4	-62	-66.9	-4.9	2	4	13.5
2457.2	16.4	-62	-66.1	-4.1	2	6	14.3
2457.25	16.4	-62	-66.4	-4.4	2	5	14
2457.3	16.4	-62	-67.4	-5.4	2	6.2	13
2457.35	16.4	-62	-66.8	-4.8	2	7.9	13.6
2457.4	16.4	-62	-67.3	-5.3	2	7	13.1
2457.45	16.4	-62	-67.2	-5.2	2	4.8	13.2

2457.5	16.4	-62	-66.8	-4.8	2	4.2	13.6
2457.55	16.4	-62	-66.6	-4.6	2	4.1	13.8
2457.6	16.4	-62	-67.3	-5.3	2	5.3	13.1
2457.65	16.4	-62	-67.5	-5.5	2	4.4	12.9
2457.7	16.4	-62	-66.3	-4.3	2	5.1	14.1
2457.75	16.4	-62	-66.9	-4.9	2	5.5	13.5
2457.8	16.4	-62	-66.4	-4.4	2	7.7	14
2457.85	16.4	-62	-67.7	-5.7	2	6.3	12.7
2457.9	16.4	-62	-67.8	-5.8	2	3.8	12.6
2457.95	16.4	-62	-66.4	-4.4	2	6	14
2458	16.4	-62	-67.6	-5.6	2	5.2	12.8
2458.05	16.4	-62	-67.4	-5.4	2	5.9	13
2458.1	16.4	-62	-68	-6	2	6.9	12.4
2458.15	16.4	-62	-67.5	-5.5	2	6.1	12.9
2458.2	16.4	-62	-67.1	-5.1	2	6.7	13.3
2458.25	16.4	-62	-67.8	-5.8	2	6.1	12.6
2458.3	16.4	-62	-66.8	-4.8	2	6.1	13.6
2458.35	16.4	-62	-67.2	-5.2	2	5	13.2
2458.4	16.4	-62	-66.8	-4.8	2	5.1	13.6
2458.45	16.4	-62	-67.2	-5.2	2	6.8	13.2
2458.5	16.4	-62	-68.8	-6.8	2	5.5	11.6
2458.55	16.4	-62	-67.5	-5.5	2	4.1	12.9
2458.6	16.4	-62	-68.3	-6.3	2	6.8	12.1
2458.65	16.4	-62	-68.8	-6.8	2	5.7	11.6
2458.7	16.4	-62	-67.2	-5.2	2	4.2	13.2
2458.75	16.4	-62	-68.3	-6.3	2	4.4	12.1
2458.8	16.4	-62	-67.9	-5.9	2	7.8	12.5
2458.85	16.4	-62	-68.1	-6.1	2	5.5	12.3
2458.9	16.4	-62	-67.2	-5.2	2	4.3	13.2
2458.95	16.4	-62	-68.6	-6.6	2	6.9	11.8
2459	16.4	-62	-68.6	-6.6	2	4.6	11.8
2459.05	16.4	-62	-67.5	-5.5	2	5.7	12.9
2459.1	16.4	-62	-67.6	-5.6	2	5.8	12.8
2459.15	16.4	-62	-69.3	-7.3	2	6.1	11.1
2459.2	16.4	-62	-69.2	-7.2	2	5.2	11.2
2459.25	16.4	-62	-69.4	-7.4	2	5.1	11

2459.3	16.4	-62	-68.5	-6.5	2	5.6	11.9
2459.35	16.4	-62	-68.4	-6.4	2	5.2	12
2459.4	16.4	-62	-69.6	-7.6	2	6.3	10.8
2459.45	16.4	-62	-67.8	-5.8	2	5.6	12.6
2459.5	16.4	-62	-69	-7	2	6.1	11.4
2459.55	16.4	-62	-68.5	-6.5	2	4.7	11.9
2459.6	16.4	-62	-68.5	-6.5	2	4.8	11.9
2459.65	16.4	-62	-69.4	-7.4	2	7.2	11
2459.7	16.4	-62	-69.2	-7.2	2	6	11.2
2459.75	16.4	-62	-69.6	-7.6	2	4.3	10.8
2459.8	16.4	-62	-68.2	-6.2	2	4.8	12.2
2459.85	16.4	-62	-69.9	-7.9	2	6.9	10.5
2459.9	16.4	-62	-69.7	-7.7	2	6.3	10.7
2459.95	16.4	-62	-68.8	-6.8	2	6.3	11.6
2460	16.4	-62	-69.7	-7.7	2	5	10.7
2460.05	16.4	-62	-69.9	-7.9	2	5.3	10.5
2460.1	16.4	-62	-68.6	-6.6	2	5.7	11.8
2460.15	16.4	-62	-68.8	-6.8	2	6.8	11.6
2460.2	16.4	-62	-68.7	-6.7	2	6.9	11.7
2460.25	16.4	-62	-69.1	-7.1	2	7.6	11.3
2460.3	16.4	-62	-68.6	-6.6	2	5.5	11.8
2460.35	16.4	-62	-68.9	-6.9	2	6.3	11.5
2460.4	16.4	-62	-68.7	-6.7	2	5.3	11.7
2460.45	16.4	-62	-68.4	-6.4	2	5.6	12
2460.5	16.4	-62	-68	-6	2	4.2	12.4
2460.55	16.4	-62	-69.4	-7.4	2	4.1	11
2460.6	16.4	-62	-68.6	-6.6	2	7	11.8
2460.65	16.4	-62	-68.6	-6.6	2	4.6	11.8
2460.7	16.4	-62	-68	-6	2	6.9	12.4
2460.75	16.4	-62	-68.3	-6.3	2	5.5	12.1
2460.8	16.4	-62	-67.9	-5.9	2	3.8	12.5
2460.85	16.4	-62	-68.4	-6.4	2	6.5	12
2460.9	16.4	-62	-69	-7	2	3.9	11.4
2460.95	16.4	-62	-67.6	-5.6	2	6.1	12.8
2461	16.4	-62	-67.8	-5.8	2	5.7	12.6
2461.05	16.4	-62	-67.8	-5.8	2	6.3	12.6

2461.1	16.4	-62	-68.9	-6.9	2	6.3	11.5
2461.15	16.4	-62	-69.3	-7.3	2	5.2	11.1
2461.2	16.4	-62	-67.3	-5.3	2	6.5	13.1
2461.25	16.4	-62	-69.1	-7.1	2	6.5	11.3
2461.3	16.4	-62	-67.6	-5.6	2	7	12.8
2461.35	16.4	-62	-67.6	-5.6	2	6.6	12.8
2461.4	16.4	-62	-67.6	-5.6	2	4.9	12.8
2461.45	16.4	-62	-68.2	-6.2	2	5.4	12.2
2461.5	16.4	-62	-67.5	-5.5	2	4.5	12.9
2461.55	16.4	-62	-68.6	-6.6	2	4.5	11.8
2461.6	16.4	-62	-67.2	-5.2	2	4.2	13.2
2461.65	16.4	-62	-68.6	-6.6	2	6	11.8
2461.7	16.4	-62	-67.2	-5.2	2	7.1	13.2
2461.75	16.4	-62	-67.5	-5.5	2	5.4	12.9
2461.8	16.4	-62	-68.5	-6.5	2	6.5	11.9
2461.85	16.4	-62	-68	-6	2	4.6	12.4
2461.9	16.4	-62	-69	-7	2	6.2	11.4
2461.95	16.4	-62	-68.3	-6.3	2	5.6	12.1
2462	16.4	-62	-69.5	-7.5	2	4.6	10.9
2462.05	16.4	-62	-68.9	-6.9	2	5.6	11.5
2462.1	16.4	-62	-68	-6	2	6.8	12.4
2462.15	16.4	-62	-68.9	-6.9	2	6.6	11.5
2462.2	16.4	-62	-68	-6	2	5.9	12.4
2462.25	16.4	-62	-67.9	-5.9	2	5.9	12.5
2462.3	16.4	-62	-68.6	-6.6	2	7	11.8
2462.35	16.4	-62	-67.5	-5.5	2	6	12.9
2462.4	16.4	-62	-68.8	-6.8	2	7.7	11.6
2462.45	16.4	-62	-67.4	-5.4	2	4	13
2462.5	16.4	-62	-67.9	-5.9	2	5.2	12.5
2462.55	16.4	-62	-67.9	-5.9	2	5.6	12.5
2462.6	16.4	-62	-67.5	-5.5	2	7.1	12.9
2462.65	16.4	-62	-68.7	-6.7	2	6.7	11.7
2462.7	16.4	-62	-67.4	-5.4	2	6	13
2462.75	16.4	-62	-69	-7	2	7.3	11.4
2462.8	16.4	-62	-68.4	-6.4	2	5.8	12
2462.85	16.4	-62	-69.1	-7.1	2	4.6	11.3

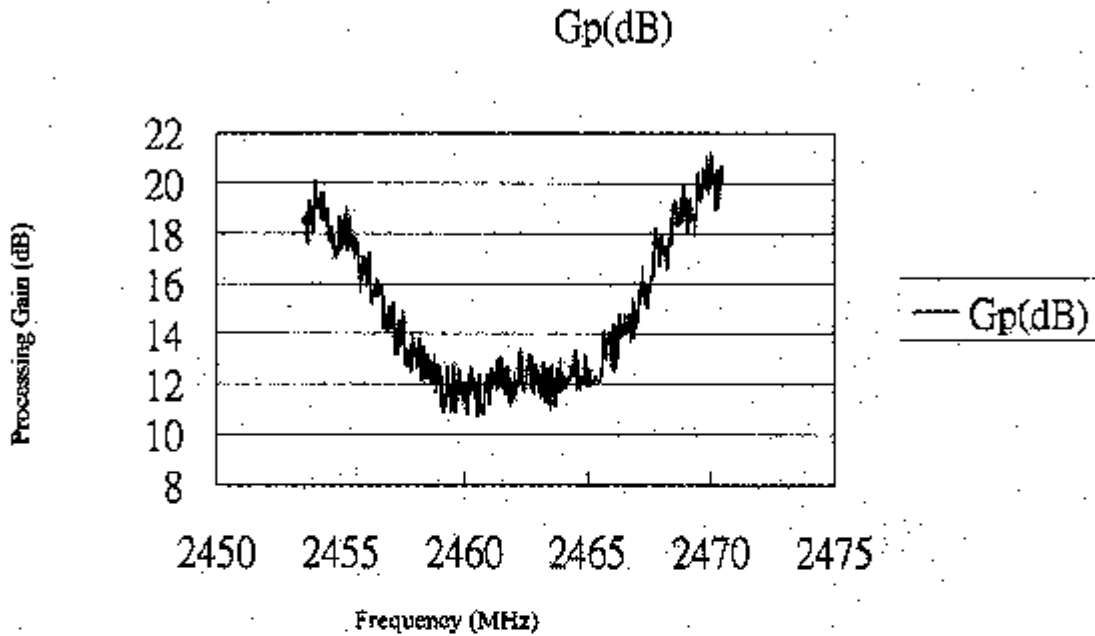
2462.9	16.4	-62	-67.6	-5.6	2	7.2	12.8
2462.95	16.4	-62	-68.6	-6.6	2	7.5	11.8
2463	16.4	-62	-68	-6	2	7.2	12.4
2463.05	16.4	-62	-69.2	-7.2	2	6.3	11.2
2463.1	16.4	-62	-67.7	-5.7	2	5.2	12.7
2463.15	16.4	-62	-68.8	-6.8	2	7.1	11.6
2463.2	16.4	-62	-68.6	-6.6	2	4.2	11.8
2463.25	16.4	-62	-68.5	-6.5	2	5.9	11.9
2463.3	16.4	-62	-68.6	-6.6	2	6.4	11.8
2463.35	16.4	-62	-68.2	-6.2	2	6.7	12.2
2463.4	16.4	-62	-69.4	-7.4	2	7.1	11
2463.45	16.4	-62	-68.3	-6.3	2	5.8	12.1
2463.5	16.4	-62	-68.5	-6.5	2	6.4	11.9
2463.55	16.4	-62	-68.7	-6.7	2	7.5	11.7
2463.6	16.4	-62	-68.7	-6.7	2	5.5	11.7
2463.65	16.4	-62	-67.8	-5.8	2	5.5	12.6
2463.7	16.4	-62	-67.8	-5.8	2	5.5	12.6
2463.75	16.4	-62	-67.3	-5.3	2	5.7	13.1
2463.8	16.4	-62	-68.8	-6.8	2	4.6	11.6
2463.85	16.4	-62	-68	-6	2	5.4	12.4
2463.9	16.4	-62	-68.3	-6.3	2	4.7	12.1
2463.95	16.4	-62	-68.8	-6.8	2	4.3	11.6
2464	16.4	-62	-69.1	-7.1	2	4.6	11.3
2464.05	16.4	-62	-67.8	-5.8	2	4.9	12.6
2464.1	16.4	-62	-68.3	-6.3	2	6.4	12.1
2464.15	16.4	-62	-69.3	-7.3	2	5.9	11.1
2464.2	16.4	-62	-68.3	-6.3	2	7.5	12.1
2464.25	16.4	-62	-69	-7	2	6.4	11.4
2464.3	16.4	-62	-68.6	-6.6	2	5.9	11.8
2464.35	16.4	-62	-67.9	-5.9	2	5.1	12.5
2464.4	16.4	-62	-68	-6	2	4.4	12.4
2464.45	16.4	-62	-67.9	-5.9	2	5.9	12.5
2464.5	16.4	-62	-69	-7	2	5.9	11.4
2464.55	16.4	-62	-68.6	-6.6	2	3.8	11.8
2464.6	16.4	-62	-67.5	-5.5	2	7.8	12.9
2464.65	16.4	-62	-69.1	-7.1	2	6.6	11.3

2464.7	16.4	-62	-67.7	-5.7	2	4.8	12.7
2464.75	16.4	-62	-68.8	-6.8	2	4.3	11.6
2464.8	16.4	-62	-68.8	-6.8	2	4.9	11.6
2464.85	16.4	-62	-68.9	-6.9	2	4.1	11.5
2464.9	16.4	-62	-67.2	-5.2	2	4.4	13.2
2464.95	16.4	-62	-67	-5	2	5.8	13.4
2465	16.4	-62	-68	-6	2	6.2	12.4
2465.05	16.4	-62	-67.2	-5.2	2	4.5	13.2
2465.1	16.4	-62	-68	-6	2	6.2	12.4
2465.15	16.4	-62	-68.6	-6.6	2	4.2	11.8
2465.2	16.4	-62	-67.7	-5.7	2	6.2	12.7
2465.25	16.4	-62	-67	-5	2	7.1	13.4
2465.3	16.4	-62	-66.7	-4.7	2	4.4	13.7
2465.35	16.4	-62	-67.8	-5.8	2	5.8	12.6
2465.4	16.4	-62	-68.2	-6.2	2	5.5	12.2
2465.45	16.4	-62	-68.2	-6.2	2	5.4	12.2
2465.5	16.4	-62	-67.9	-5.9	2	5.2	12.5
2465.55	16.4	-62	-68.1	-6.1	2	5.6	12.3
2465.6	16.4	-62	-67.2	-5.2	2	4.9	13.2
2465.65	16.4	-62	-67.7	-5.7	2	6.1	12.7
2465.7	16.4	-62	-68.1	-6.1	2	6	12.3
2465.75	16.4	-62	-66.6	-4.6	2	6.7	13.8
2465.8	16.4	-62	-67.9	-5.9	2	6	12.5
2465.85	16.4	-62	-66.4	-4.4	2	5.9	14
2465.9	16.4	-62	-68	-6	2	6.1	12.4
2465.95	16.4	-62	-67.2	-5.2	2	6.8	13.2
2466	16.4	-62	-66.2	-4.2	2	6	14.2
2466.05	16.4	-62	-67.3	-5.3	2	5.4	13.1
2466.1	16.4	-62	-67.5	-5.5	2	4.3	12.9
2466.15	16.4	-62	-66.9	-4.9	2	4	13.5
2466.2	16.4	-62	-66.8	-4.8	2	4.4	13.6
2466.25	16.4	-62	-67.1	-5.1	2	7.2	13.3
2466.3	16.4	-62	-67.2	-5.2	2	3.9	13.2
2466.35	16.4	-62	-66.1	-4.1	2	6.5	14.3
2466.4	16.4	-62	-66.6	-4.6	2	7.4	13.8
2466.45	16.4	-62	-66.3	-4.3	2	6.6	14.1

2466.5	16.4	-62	-65.5	-3.5	2	5.5	14.9
2466.55	16.4	-62	-66.4	-4.4	2	6.2	14
2466.6	16.4	-62	-66.1	-4.1	2	7.1	14.3
2466.65	16.4	-62	-65.4	-3.4	2	5.8	15
2466.7	16.4	-62	-66.2	-4.2	2	6.2	14.2
2466.75	16.4	-62	-65.3	-3.3	2	7.4	15.1
2466.8	16.4	-62	-66.8	-4.8	2	6	13.6
2466.85	16.4	-62	-65.9	-3.9	2	4.2	14.5
2466.9	16.4	-62	-66.2	-4.2	2	4.2	14.2
2466.95	16.4	-62	-65.4	-3.4	2	6.3	15
2467	16.4	-62	-64.9	-2.9	2	6.1	15.5
2467.05	16.4	-62	-65.3	-3.3	2	4.2	15.1
2467.1	16.4	-62	-65.9	-3.9	2	7	14.5
2467.15	16.4	-62	-64.9	-2.9	2	7.7	15.5
2467.2	16.4	-62	-65.2	-3.2	2	7.1	15.2
2467.25	16.4	-62	-65.4	-3.4	2	6.1	15
2467.3	16.4	-62	-64.1	-2.1	2	7.1	16.3
2467.35	16.4	-62	-65.1	-3.1	2	4.4	15.3
2467.4	16.4	-62	-64	-2	2	4.2	16.4
2467.45	16.4	-62	-64.1	-2.1	2	6.2	16.3
2467.5	16.4	-62	-64.7	-2.7	2	7.1	15.7
2467.55	16.4	-62	-63.2	-1.2	2	3.8	17.2
2467.6	16.4	-62	-63.4	-1.4	2	5.6	17
2467.65	16.4	-62	-64.7	-2.7	2	4.6	15.7
2467.7	16.4	-62	-64	-2	2	4.6	16.4
2467.75	16.4	-62	-63.9	-1.9	2	4.5	16.5
2467.8	16.4	-62	-62.3	-0.3	2	4.7	18.1
2467.85	16.4	-62	-62.3	-0.3	2	5.4	18.1
2467.9	16.4	-62	-62	0	2	6.8	18.4
2467.95	16.4	-62	-63	-1	2	4.4	17.4
2468	16.4	-62	-62.5	-0.5	2	6.5	17.9
2468.05	16.4	-62	-62.6	-0.6	2	6.2	17.8
2468.1	16.4	-62	-62.5	-0.5	2	5.4	17.9
2468.15	16.4	-62	-63.9	-1.9	2	5.7	16.5
2468.2	16.4	-62	-62.7	-0.7	2	5.7	17.7
2468.25	16.4	-62	-62.9	-0.9	2	4	17.5

2468.3	16.4	-62	-61.9	0.1	2	7.1	18.5
2468.35	16.4	-62	-62	0	2	5.2	18.4
2468.4	16.4	-62	-61.6	0.4	2	7	18.8
2468.45	16.4	-62	-62.1	-0.1	2	5	18.3
2468.5	16.4	-62	-62	0	2	6.5	18.4
2468.55	16.4	-62	-61.6	0.4	2	4.1	18.8
2468.6	16.4	-62	-61.5	0.5	2	4.9	18.9
2468.65	16.4	-62	-60.5	1.5	2	6.4	19.9
2468.7	16.4	-62	-61.6	0.4	2	5.2	18.8
2468.75	16.4	-62	-61.3	0.7	2	4.1	19.1
2468.8	16.4	-62	-60.5	1.5	2	4.6	19.9
2468.85	16.4	-62	-61.7	0.3	2	7.2	18.7
2468.9	16.4	-62	-62.1	-0.1	2	4.7	18.3
2468.95	16.4	-62	-60.6	1.4	2	6	19.8
2469	16.4	-62	-60.6	1.4	2	5.6	19.8
2469.05	16.4	-62	-60.7	1.3	2	6	19.7
2469.1	16.4	-62	-62.4	-0.4	2	5.3	18
2469.15	16.4	-62	-60.9	1.1	2	5.4	19.5
2469.2	16.4	-62	-61.6	0.4	2	4.8	18.8
2469.25	16.4	-62	-62.1	-0.1	2	5	18.3
2469.3	16.4	-62	-60.8	1.2	2	7.2	19.6
2469.35	16.4	-62	-60.9	1.1	2	5.7	19.5
2469.4	16.4	-62	-61.4	0.6	2	4.5	19
2469.45	16.4	-62	-61.8	0.2	2	7.6	18.6
2469.5	16.4	-62	-61.6	0.4	2	4	18.8
2469.55	16.4	-62	-60.6	1.4	2	7.3	19.8
2469.6	16.4	-62	-60.6	1.4	2	4.4	19.8
2469.65	16.4	-62	-60.9	1.1	2	5.4	19.5
2469.7	16.4	-62	-60	2	2	6.6	20.4
2469.75	16.4	-62	-60.6	1.4	2	6.6	19.8
2469.8	16.4	-62	-60.1	1.9	2	4.9	20.3
2469.85	16.4	-62	-59.8	2.2	2	5.2	20.6
2469.9	16.4	-62	-60.7	1.3	2	6	19.7
2469.95	16.4	-62	-60.5	1.5	2	7.2	19.9
2470	16.4	-62	-60.8	1.2	2	4.4	19.6
2470.05	16.4	-62	-61.3	0.7	2	4.7	19.1

Processing Gain(dB)@20th Percentile=12



2Mbps Channel 1 (2412MHz) Processing Gain							
Gp=(S/N)o+Lsys+(Jr/Sr)							
Frequency	(S/N)o	Sr	Jr	Jr/Sr	Lsys	FER	Gp
(MHz)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(%)	(dB)
2433.5	13.3	-62	-59.7	2.3	2	7.4	17.6
2433.55	13.3	-62	-61.1	0.9	2	4.9	16.2

2433.6	13.3	-62	-60.7	1.3	2	3.8	16.6
2433.65	13.3	-62	-61	1	2	4.6	16.3
2433.7	13.3	-62	-62.3	-0.3	2	4.1	15
2433.75	13.3	-62	-61.3	0.7	2	4.1	16
2433.8	13.3	-62	-62.3	-0.3	2	4.5	15
2433.85	13.3	-62	-62.6	-0.6	2	7	14.7
2433.9	13.3	-62	-61.7	0.3	2	7	15.6
2433.95	13.3	-62	-61.8	0.2	2	5.3	15.5
2434	13.3	-62	-60.3	1.7	2	6.8	17
2434.05	13.3	-62	-62	0	2	4.4	15.3
2434.1	13.3	-62	-61.5	0.5	2	6.5	15.8
2434.15	13.3	-62	-61.6	0.4	2	6.7	15.7
2434.2	13.3	-62	-61.7	0.3	2	4.9	15.6
2434.25	13.3	-62	-62	0	2	4.4	15.3
2434.3	13.3	-62	-61	1	2	4.7	16.3
2434.35	13.3	-62	-60.4	1.6	2	6.8	16.9
2434.4	13.3	-62	-60.8	1.2	2	4.8	16.5
2434.45	13.3	-62	-61.6	0.4	2	6.4	15.7
2434.5	13.3	-62	-62.3	-0.3	2	5.5	15
2434.55	13.3	-62	-61.5	0.5	2	6.1	15.8
2434.6	13.3	-62	-62.5	-0.5	2	6	14.8
2434.65	13.3	-62	-62	0	2	6.8	15.3
2434.7	13.3	-62	-62.8	-0.8	2	6.2	14.5
2434.75	13.3	-62	-62.4	-0.4	2	4.3	14.9
2434.8	13.3	-62	-62.3	-0.3	2	7.3	15
2434.85	13.3	-62	-61.5	0.5	2	4.6	15.8
2434.9	13.3	-62	-63.2	-1.2	2	4.4	14.1
2434.95	13.3	-62	-61.6	0.4	2	5.5	15.7
2435	13.3	-62	-61.5	0.5	2	7.2	15.8
2435.05	13.3	-62	-61.3	0.7	2	4.9	16
2435.1	13.3	-62	-61.6	0.4	2	6.7	15.7
2435.15	13.3	-62	-61.9	0.1	2	6.9	15.4
2435.2	13.3	-62	-63	-1	2	5.3	14.3
2435.25	13.3	-62	-61.3	0.7	2	6.2	16
2435.3	13.3	-62	-62.5	-0.5	2	6.2	14.8
2435.35	13.3	-62	-61.5	0.5	2	5.7	15.8

2435.4	13.3	-62	-61.9	0.1	2	5.6	15.4
2435.45	13.3	-62	-63.5	-1.5	2	4.8	13.8
2435.5	13.3	-62	-62.4	-0.4	2	4.9	14.9
2435.55	13.3	-62	-63.3	-1.3	2	4.5	14
2435.6	13.3	-62	-62.7	-0.7	2	4.5	14.6
2435.65	13.3	-62	-64.5	-2.5	2	6	12.8
2435.7	13.3	-62	-63	-1	2	4.3	14.3
2435.75	13.3	-62	-64.7	-2.7	2	5.6	12.6
2435.8	13.3	-62	-64.3	-2.3	2	6.5	13
2435.85	13.3	-62	-63	-1	2	3.8	14.3
2435.9	13.3	-62	-62.9	-0.9	2	5.8	14.4
2435.95	13.3	-62	-63	-1	2	4.4	14.3
2436	13.3	-62	-64.2	-2.2	2	5	13.1
2436.05	13.3	-62	-63.6	-1.6	2	4.3	13.7
2436.1	13.3	-62	-63.5	-1.5	2	4.9	13.8
2436.15	13.3	-62	-62.3	-0.3	2	6	15
2436.2	13.3	-62	-61.6	0.4	2	6.8	15.7
2436.25	13.3	-62	-61.6	0.4	2	4.7	15.7
2436.3	13.3	-62	-61.4	0.6	2	6.6	15.9
2436.35	13.3	-62	-59.5	2.5	2	4.4	17.8
2436.4	13.3	-62	-60	2	2	4.5	17.3
2436.45	13.3	-62	-58.9	3.1	2	7	18.4
2436.5	13.3	-62	-59.8	2.2	2	4.2	17.5
2436.55	13.3	-62	-59.3	2.7	2	5.5	18
2436.6	13.3	-62	-60.5	1.5	2	4.3	16.8
2436.65	13.3	-62	-58.4	3.6	2	6.4	18.9
2436.7	13.3	-62	-60.8	1.2	2	5.6	16.5
2436.75	13.3	-62	-62	0	2	4.9	15.3
2436.8	13.3	-62	-61.6	0.4	2	5.6	15.7
2436.85	13.3	-62	-61.8	0.2	2	6.5	15.5
2436.9	13.3	-62	-63	-1	2	6.7	14.3
2436.95	13.3	-62	-63.2	-1.2	2	6.6	14.1
2437	13.3	-62	-63.9	-1.9	2	5.9	13.4
2437.05	13.3	-62	-63.1	-1.1	2	6.3	14.2
2437.1	13.3	-62	-64.9	-2.9	2	6.8	12.4
2437.15	13.3	-62	-63.8	-1.8	2	6.7	13.5

2437.2	13.3	-62	-65	-3	2	5.4	12.3
2437.25	13.3	-62	-65	-3	2	7.8	12.3
2437.3	13.3	-62	-64.6	-2.6	2	7.6	12.7
2437.35	13.3	-62	-64.8	-2.8	2	6.9	12.5
2437.4	13.3	-62	-65	-3	2	4.5	12.3
2437.45	13.3	-62	-63.2	-1.2	2	7.4	14.1
2437.5	13.3	-62	-62.9	-0.9	2	4.6	14.4
2437.55	13.3	-62	-63.7	-1.7	2	5	13.6
2437.6	13.3	-62	-63.7	-1.7	2	6.1	13.6
2437.65	13.3	-62	-63.6	-1.6	2	6.2	13.7
2437.7	13.3	-62	-63.8	-1.8	2	5.5	13.5
2437.75	13.3	-62	-64.1	-2.1	2	6	13.2
2437.8	13.3	-62	-62.7	-0.7	2	6.7	14.6
2437.85	13.3	-62	-63.4	-1.4	2	7.4	13.9
2437.9	13.3	-62	-64.3	-2.3	2	6.7	13
2437.95	13.3	-62	-64.5	-2.5	2	3.7	12.8
2438	13.3	-62	-64.8	-2.8	2	5.6	12.5
2438.05	13.3	-62	-64.6	-2.6	2	6.4	12.7
2438.1	13.3	-62	-64.7	-2.7	2	4.8	12.6
2438.15	13.3	-62	-65	-3	2	6.9	12.3
2438.2	13.3	-62	-65.2	-3.2	2	7.4	12.1
2438.25	13.3	-62	-63.4	-1.4	2	4.3	13.9
2438.3	13.3	-62	-65	-3	2	6.8	12.3
2438.35	13.3	-62	-65	-3	2	5.9	12.3
2438.4	13.3	-62	-63.5	-1.5	2	4.3	13.8
2438.45	13.3	-62	-63.9	-1.9	2	4.8	13.4
2438.5	13.3	-62	-65.1	-3.1	2	5.6	12.2
2438.55	13.3	-62	-64.6	-2.6	2	6.3	12.7
2438.6	13.3	-62	-63.7	-1.7	2	6.4	13.6
2438.65	13.3	-62	-63.7	-1.7	2	4.7	13.6
2438.7	13.3	-62	-63.7	-1.7	2	6.9	13.6
2438.75	13.3	-62	-63.4	-1.4	2	6.8	13.9
2438.8	13.3	-62	-64.3	-2.3	2	4.9	13
2438.85	13.3	-62	-64.3	-2.3	2	6.1	13
2438.9	13.3	-62	-63.8	-1.8	2	6.7	13.5
2438.95	13.3	-62	-65.2	-3.2	2	5.5	12.1

2439	13.3	-62	-64	-2	2	5.7	13.3
2439.05	13.3	-62	-64.1	-2.1	2	6.7	13.2
2439.1	13.3	-62	-64	-2	2	5.6	13.3
2439.15	13.3	-62	-63.5	-1.5	2	5	13.8
2439.2	13.3	-62	-63.8	-1.8	2	6.8	13.5
2439.25	13.3	-62	-65.4	-3.4	2	5.8	11.9
2439.3	13.3	-62	-63.8	-1.8	2	4	13.5
2439.35	13.3	-62	-63.8	-1.8	2	4.6	13.5
2439.4	13.3	-62	-64.1	-2.1	2	4.9	13.2
2439.45	13.3	-62	-63.9	-1.9	2	5.2	13.4
2439.5	13.3	-62	-66	-4	2	3.7	11.3
2439.55	13.3	-62	-63.4	-1.4	2	4.6	13.9
2439.6	13.3	-62	-64.9	-2.9	2	6.7	12.4
2439.65	13.3	-62	-63.6	-1.6	2	5.7	13.7
2439.7	13.3	-62	-64.5	-2.5	2	5.6	12.8
2439.75	13.3	-62	-64.2	-2.2	2	6.9	13.1
2439.8	13.3	-62	-64.1	-2.1	2	4.6	13.2
2439.85	13.3	-62	-65.4	-3.4	2	4.6	11.9
2439.9	13.3	-62	-65.1	-3.1	2	4.2	12.2
2439.95	13.3	-62	-64.9	-2.9	2	5	12.4
2440	13.3	-62	-63.5	-1.5	2	5.9	13.8
2440.05	13.3	-62	-63.8	-1.8	2	5.7	13.5
2440.1	13.3	-62	-64.6	-2.6	2	4.9	12.7
2440.15	13.3	-62	-64.8	-2.8	2	6.7	12.5
2440.2	13.3	-62	-65.8	-3.8	2	4	11.5
2440.25	13.3	-62	-65.6	-3.6	2	6.9	11.7
2440.3	13.3	-62	-64.7	-2.7	2	3.7	12.6
2440.35	13.3	-62	-65	-3	2	5.2	12.3
2440.4	13.3	-62	-65.7	-3.7	2	5.8	11.6
2440.45	13.3	-62	-65	-3	2	4.7	12.3
2440.5	13.3	-62	-65.5	-3.5	2	6.4	11.8
2440.55	13.3	-62	-65.3	-3.3	2	6.3	12
2440.6	13.3	-62	-63.9	-1.9	2	6.5	13.4
2440.65	13.3	-62	-64.5	-2.5	2	6.4	12.8
2440.7	13.3	-62	-64	-2	2	6.7	13.3
2440.75	13.3	-62	-63.7	-1.7	2	4.8	13.6

2440.8	13.3	-62	-64	-2	2	4.4	13.3
2440.85	13.3	-62	-64.8	-2.8	2	4.1	12.5
2440.9	13.3	-62	-66.4	-4.4	2	4	10.9
2440.95	13.3	-62	-64.9	-2.9	2	6.8	12.4
2441	13.3	-62	-64.8	-2.8	2	7.2	12.5
2441.05	13.3	-62	-64.3	-2.3	2	5.9	13
2441.1	13.3	-62	-65.3	-3.3	2	7	12
2441.15	13.3	-62	-64.1	-2.1	2	6.3	13.2
2441.2	13.3	-62	-64.8	-2.8	2	5.4	12.5
2441.25	13.3	-62	-65	-3	2	4.5	12.3
2441.3	13.3	-62	-65.3	-3.3	2	4.2	12
2441.35	13.3	-62	-66.3	-4.3	2	7.5	11
2441.4	13.3	-62	-66.7	-4.7	2	5.4	10.6
2441.45	13.3	-62	-64.7	-2.7	2	5.7	12.6
2441.5	13.3	-62	-66.2	-4.2	2	7.9	11.1
2441.55	13.3	-62	-65.4	-3.4	2	5.6	11.9
2441.6	13.3	-62	-63.1	-1.1	2	6.8	14.2
2441.65	13.3	-62	-63.2	-1.2	2	5.7	14.1
2441.7	13.3	-62	-63.9	-1.9	2	4.4	13.4
2441.75	13.3	-62	-62.5	-0.5	2	3.7	14.8
2441.8	13.3	-62	-61.8	0.2	2	5.4	15.5
2441.85	13.3	-62	-60.4	1.6	2	7.1	16.9
2441.9	13.3	-62	-60.7	1.3	2	5.6	16.6
2441.95	13.3	-62	-60.8	1.2	2	6.7	16.5
2442	13.3	-62	-60.9	1.1	2	7.6	16.4
2442.05	13.3	-62	-60	2	2	7.7	17.3
2442.1	13.3	-62	-60.3	1.7	2	5.8	17
2442.15	13.3	-62	-61.4	0.6	2	6.1	15.9
2442.2	13.3	-62	-61.5	0.5	2	4	15.8
2442.25	13.3	-62	-62.6	-0.6	2	5.6	14.7
2442.3	13.3	-62	-63.4	-1.4	2	6.7	13.9
2442.35	13.3	-62	-63.6	-1.6	2	6.2	13.7
2442.4	13.3	-62	-63.4	-1.4	2	3.6	13.9
2442.45	13.3	-62	-64.2	-2.2	2	4.3	13.1
2442.5	13.3	-62	-65.1	-3.1	2	5.2	12.2
2442.55	13.3	-62	-65.5	-3.5	2	5.9	11.8

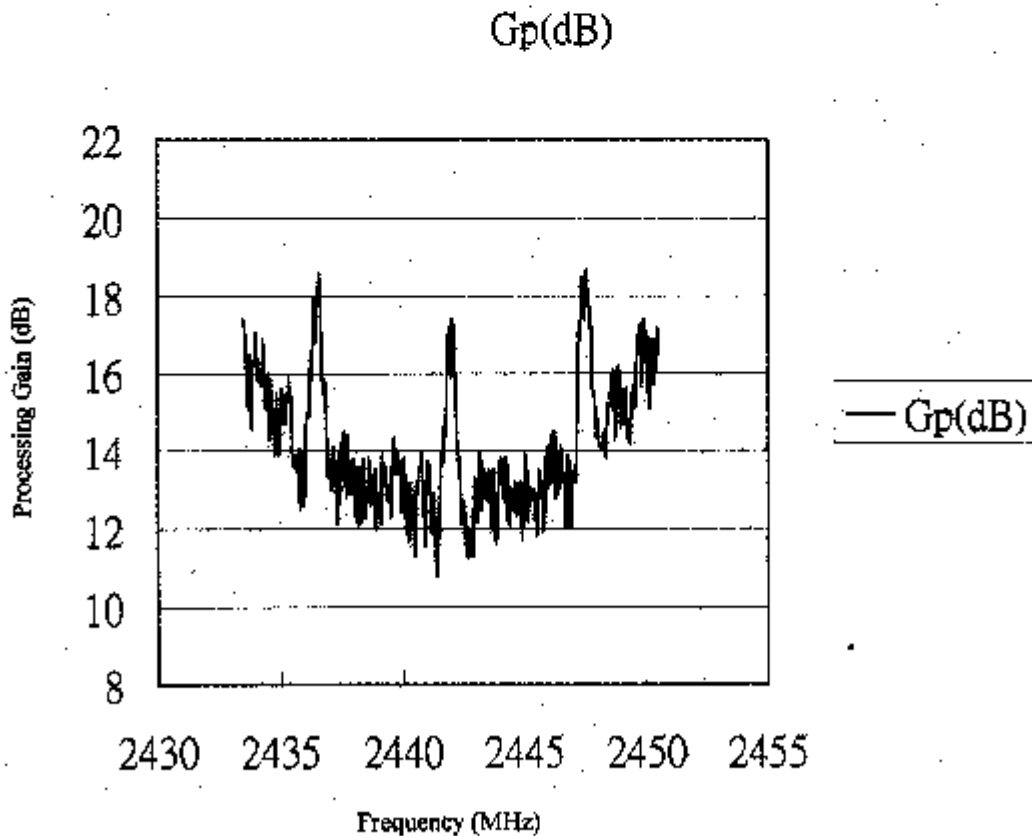
2442.6	13.3	-62	-65	-3	2	7	12.3
2442.65	13.3	-62	-64.7	-2.7	2	6.7	12.6
2442.7	13.3	-62	-64	-2	2	6.7	13.3
2442.75	13.3	-62	-66.3	-4.3	2	3.9	11
2442.8	13.3	-62	-64.3	-2.3	2	4.9	13
2442.85	13.3	-62	-66	-4	2	4.6	11.3
2442.9	13.3	-62	-66	-4	2	6.2	11.3
2442.95	13.3	-62	-64.9	-2.9	2	5.9	12.4
2443	13.3	-62	-63.9	-1.9	2	7.1	13.4
2443.05	13.3	-62	-64.8	-2.8	2	5.1	12.5
2443.1	13.3	-62	-63.5	-1.5	2	5.6	13.8
2443.15	13.3	-62	-64.1	-2.1	2	5.1	13.2
2443.2	13.3	-62	-64.2	-2.2	2	4.9	13.1
2443.25	13.3	-62	-64.6	-2.6	2	4.7	12.7
2443.3	13.3	-62	-63.5	-1.5	2	5	13.8
2443.35	13.3	-62	-65.3	-3.3	2	7.7	12
2443.4	13.3	-62	-65	-3	2	4.5	12.3
2443.45	13.3	-62	-64.6	-2.6	2	6.1	12.7
2443.5	13.3	-62	-65.2	-3.2	2	7.4	12.1
2443.55	13.3	-62	-64.5	-2.5	2	5.4	12.8
2443.6	13.3	-62	-64	-2	2	5.3	13.3
2443.65	13.3	-62	-65.8	-3.8	2	6	11.5
2443.7	13.3	-62	-65.3	-3.3	2	4.3	12
2443.75	13.3	-62	-65.5	-3.5	2	5.6	11.8
2443.8	13.3	-62	-64.5	-2.5	2	7	12.8
2443.85	13.3	-62	-65.1	-3.1	2	5.6	12.2
2443.9	13.3	-62	-65.9	-3.9	2	6.2	11.4
2443.95	13.3	-62	-64.5	-2.5	2	5.3	12.8
2444	13.3	-62	-64.3	-2.3	2	4.1	13
2444.05	13.3	-62	-64	-2	2	6.5	13.3
2444.1	13.3	-62	-63.9	-1.9	2	6.6	13.4
2444.15	13.3	-62	-64.8	-2.8	2	6.7	12.5
2444.2	13.3	-62	-64.8	-2.8	2	3.8	12.5
2444.25	13.3	-62	-63.9	-1.9	2	6.5	13.4
2444.3	13.3	-62	-64.6	-2.6	2	5.3	12.7
2444.35	13.3	-62	-65	-3	2	5.3	12.3

2444.4	13.3	-62	-65	-3	2	3.9	12.3
2444.45	13.3	-62	-63.8	-1.8	2	4.9	13.5
2444.5	13.3	-62	-64.2	-2.2	2	5.2	13.1
2444.55	13.3	-62	-65.5	-3.5	2	5.6	11.8
2444.6	13.3	-62	-63.9	-1.9	2	6.9	13.4
2444.65	13.3	-62	-64.7	-2.7	2	6.4	12.6
2444.7	13.3	-62	-65.3	-3.3	2	6.5	12
2444.75	13.3	-62	-65.4	-3.4	2	7.6	11.9
2444.8	13.3	-62	-65.6	-3.6	2	4	11.7
2444.85	13.3	-62	-64.6	-2.6	2	6.5	12.7
2444.9	13.3	-62	-65.8	-3.8	2	4.8	11.5
2444.95	13.3	-62	-63.9	-1.9	2	7.1	13.4
2445	13.3	-62	-64.7	-2.7	2	4.5	12.6
2445.05	13.3	-62	-64.6	-2.6	2	5.5	12.7
2445.1	13.3	-62	-64.4	-2.4	2	5.7	12.9
2445.15	13.3	-62	-63.9	-1.9	2	4.3	13.4
2445.2	13.3	-62	-64.1	-2.1	2	4.3	13.2
2445.25	13.3	-62	-64	-2	2	4.4	13.3
2445.3	13.3	-62	-64	-2	2	5.5	13.3
2445.35	13.3	-62	-63.9	-1.9	2	6	13.4
2445.4	13.3	-62	-63.8	-1.8	2	6	13.5
2445.45	13.3	-62	-65.3	-3.3	2	6.7	12
2445.5	13.3	-62	-65.3	-3.3	2	4.6	12
2445.55	13.3	-62	-64.8	-2.8	2	6.3	12.5
2445.6	13.3	-62	-64.6	-2.6	2	6	12.7
2445.65	13.3	-62	-65.2	-3.2	2	5.3	12.1
2445.7	13.3	-62	-64.4	-2.4	2	5.3	12.9
2445.75	13.3	-62	-65.5	-3.5	2	6.4	11.8
2445.8	13.3	-62	-63.9	-1.9	2	6	13.4
2445.85	13.3	-62	-64.8	-2.8	2	4.5	12.5
2445.9	13.3	-62	-64.9	-2.9	2	5	12.4
2445.95	13.3	-62	-65.2	-3.2	2	6.7	12.1
2446	13.3	-62	-63.1	-1.1	2	7.8	14.2
2446.05	13.3	-62	-64.1	-2.1	2	6.2	13.2
2446.1	13.3	-62	-64.8	-2.8	2	6.3	12.5
2446.15	13.3	-62	-63.3	-1.3	2	5.3	14

2446.2	13.3	-62	-64.1	-2.1	2	6.7	13.2
2446.25	13.3	-62	-63.8	-1.8	2	6.8	13.5
2446.3	13.3	-62	-64.3	-2.3	2	6.2	13
2446.35	13.3	-62	-64	-2	2	5.6	13.3
2446.4	13.3	-62	-63.7	-1.7	2	6.5	13.6
2446.45	13.3	-62	-63.1	-1.1	2	4.9	14.2
2446.5	13.3	-62	-64.3	-2.3	2	6.7	13
2446.55	13.3	-62	-62.9	-0.9	2	5.3	14.4
2446.6	13.3	-62	-63.7	-1.7	2	4.4	13.6
2446.65	13.3	-62	-63.3	-1.3	2	5.4	14
2446.7	13.3	-62	-63.7	-1.7	2	6	13.6
2446.75	13.3	-62	-63.9	-1.9	2	6.7	13.4
2446.8	13.3	-62	-65.3	-3.3	2	6.1	12
2446.85	13.3	-62	-64.7	-2.7	2	6.8	12.6
2446.9	13.3	-62	-64.8	-2.8	2	6.6	12.5
2446.95	13.3	-62	-63.5	-1.5	2	6.4	13.8
2447	13.3	-62	-63	-1	2	5.2	14.3
2447.05	13.3	-62	-63.3	-1.3	2	4.1	14
2447.1	13.3	-62	-62.2	-0.2	2	5.6	15.1
2447.15	13.3	-62	-62.3	-0.3	2	7.4	15
2447.2	13.3	-62	-63.1	-1.1	2	7.6	14.2
2447.25	13.3	-62	-60.7	1.3	2	7	16.6
2447.3	13.3	-62	-60.2	1.8	2	7.1	17.1
2447.35	13.3	-62	-59.7	2.3	2	6.1	17.6
2447.4	13.3	-62	-60.2	1.8	2	5.9	17.1
2447.45	13.3	-62	-58.8	3.2	2	4.5	18.5
2447.5	13.3	-62	-58.8	3.2	2	6	18.5
2447.55	13.3	-62	-58.5	3.5	2	6.7	18.8
2447.6	13.3	-62	-60.2	1.8	2	5.6	17.1
2447.65	13.3	-62	-58.3	3.7	2	6.5	19
2447.7	13.3	-62	-60.2	1.8	2	7.8	17.1
2447.75	13.3	-62	-61.4	0.6	2	6	15.9
2447.8	13.3	-62	-62.4	-0.4	2	7	14.9
2447.85	13.3	-62	-62.7	-0.7	2	3.6	14.6
2447.9	13.3	-62	-63.6	-1.6	2	6.4	13.7
2447.95	13.3	-62	-62.4	-0.4	2	6.1	14.9

2448	13.3	-62	-63	-1	2	4.6	14.3
2448.05	13.3	-62	-63.4	-1.4	2	5.5	13.9
2448.1	13.3	-62	-62.8	-0.8	2	5	14.5
2448.15	13.3	-62	-64	-2	2	5.5	13.3
2448.2	13.3	-62	-63.4	-1.4	2	7.2	13.9
2448.25	13.3	-62	-63.5	-1.5	2	7.2	13.8
2448.3	13.3	-62	-63.1	-1.1	2	5.9	14.2
2448.35	13.3	-62	-64.1	-2.1	2	4.5	13.2
2448.4	13.3	-62	-63.7	-1.7	2	7.2	13.6
2448.45	13.3	-62	-61.8	0.2	2	5.7	15.5
2448.5	13.3	-62	-63.3	-1.3	2	3.9	14
2448.55	13.3	-62	-62.1	-0.1	2	5.8	15.2
2448.6	13.3	-62	-61.5	0.5	2	4.4	15.8
2448.65	13.3	-62	-62.7	-0.7	2	6.7	14.6
2448.7	13.3	-62	-62.2	-0.2	2	4.2	15.1
2448.75	13.3	-62	-62.1	-0.1	2	4.9	15.2
2448.8	13.3	-62	-61.1	0.9	2	6.3	16.2
2448.85	13.3	-62	-62.6	-0.6	2	5.6	14.7
2448.9	13.3	-62	-62.1	-0.1	2	7	15.2
2448.95	13.3	-62	-61.8	0.2	2	5.3	15.5
2449	13.3	-62	-61.8	0.2	2	5.2	15.5
2449.05	13.3	-62	-62.7	-0.7	2	6.2	14.6
2449.1	13.3	-62	-61.7	0.3	2	7.2	15.6
2449.15	13.3	-62	-62	0	2	5.2	15.3
2449.2	13.3	-62	-61.9	0.1	2	4.4	15.4
2449.25	13.3	-62	-62.4	-0.4	2	7	14.9
2449.3	13.3	-62	-62.1	-0.1	2	6.5	15.2
2449.35	13.3	-62	-62.8	-0.8	2	5.8	14.5
2449.4	13.3	-62	-61.9	0.1	2	3.8	15.4
2449.45	13.3	-62	-62.1	-0.1	2	4.5	15.2
2449.5	13.3	-62	-61.6	0.4	2	6.4	15.7
2449.55	13.3	-62	-60.4	1.6	2	7	16.9
2449.6	13.3	-62	-61.5	0.5	2	4.5	15.8
2449.65	13.3	-62	-61.3	0.7	2	6	16
2449.7	13.3	-62	-60.8	1.2	2	6	16.5
2449.75	13.3	-62	-61.4	0.6	2	6.2	15.9

2449.8	13.3	-62	-61.2	0.8	2	5.9	16.1
2449.85	13.3	-62	-60.1	1.9	2	4.4	17.2
2449.9	13.3	-62	-59.9	2.1	2	6.9	17.4
2449.95	13.3	-62	-59.9	2.1	2	5.6	17.4
2450	13.3	-62	-61.8	0.2	2	3.8	15.5
2450.05	13.3	-62	-60.7	1.3	2	6.9	16.6
2450.1	13.3	-62	-60.4	1.6	2	5.1	16.9
2450.15	13.3	-62	-62.1	-0.1	2	6.8	15.2
2450.2	13.3	-62	-61.7	0.3	2	4.9	15.6
2450.25	13.3	-62	-61	1	2	5.6	16.3
2450.3	13.3	-62	-62	0	2	4.7	15.3
2450.35	13.3	-62	-60.9	1.1	2	7.6	16.4
2450.4	13.3	-62	-59.7	2.3	2	6.1	17.6
2450.45	13.3	-62	-60.8	1.2	2	3.8	16.5
2450.5	13.3	-62	-59.6	2.4	2	5.5	17.7
Processing Gain(dB)@20th Percentile=12.5							



8. EMI Reduction Method During Compliance Testing

No modification was made during testing.

9. Attachment

Attachment 1: EUT Test Photographs Number of Pages : 3

Attachment 2: EUT Detailed Photographs Number of Pages : 5

Attachment 1 : EUT Test Photographs

Attachment 1 : EUT Test Photographs

Front View of Conducted Test



Back View of Conducted Test



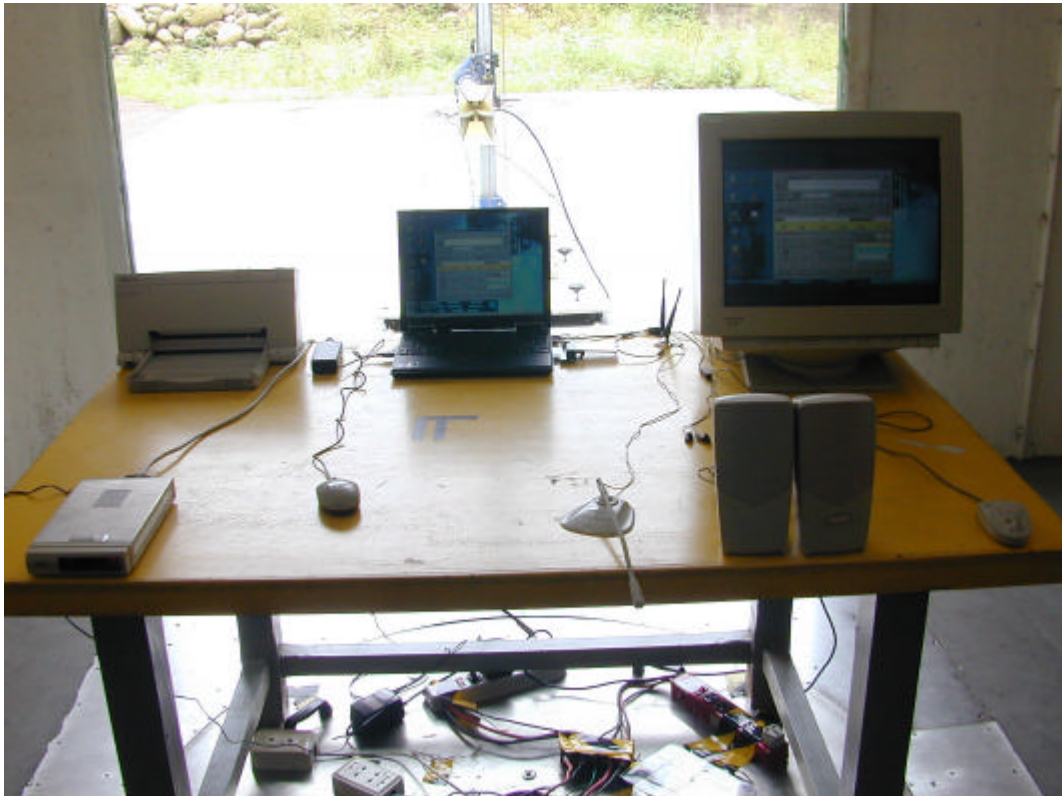
Front View of Radiated Test



Back View of Radiated Test



Front View of Radiated Test (Horn)



Back View of Radiated Test (Horn)

