FC

Test Report

Product Name : WLAN MiniPCI Type III

Model No. : T60H424

FCC ID.: MCLT60H424

Applicant : Ambit Microsystems Corp.

Address : 4-1, Ming-Sheng St., Tu-Cheng Industrial Area,

Tu-Cheng City, Taipei, Taiwan, R.O.C.

Date of Receipt : Jan.31, 2002

Date of Test : Feb.04, 2002

Report No. : 022H017FI

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 : Feb.04, 2002

Report No. : 022H017FI

QTK QuieTek Corporation

Accredited by NIST (NVLAP)

NVLAP Lab Code: 200347-0

Product Name	:	WLAN MiniPCI Type III
Applicant	:	Ambit Microsystems Corp.
Address	:	5F-1, 5, Hsin-An Road Hsinchu Science-Based Industrial Park, Hsinchu, Taiwan, R.O.C.
Manufacturer	:	Ambit Microsystems Corp.
Model No.	:	T60H424
FCC ID.	:	MCLT60H424
Rated Voltage	:	DC 3.3V
Trade Name	:	Ambit
Measurement Standard	:	FCC Part 15 Subpart C Paragraph 15.247
Measurement Procedure	:	ANSI C63.4:1992
Test Result	:	Complied

The Test Results relate only to the samples tested.

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Documented By : _____

(Lisa Chen)

Tested By : _____

(Kenny Jwo)

Approved By : _____

(Kevin Wang)

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1. GENERAL INFORMATION

1.1. EUT Description

Product Name	:	WLAN MiniPCI Type III
Trade Name	:	Ambit
FCC ID.	:	MCLT60H424
Model No.	:	T60H424
Frequency Range	:	2412MHz to 2462MHz
Channel Number	:	11

Frequency of Each	:	Channel 01: 2412MHz Channel 07: 2442MHz
Channel		Channel 02: 2417 MHz Channel 08: 2447 MHz
(Working Frequency)		Channel 03: 2422 MHz Channel 09: 2452 MHz
		Channel 04: 2427MHz Channel 10: 2457MHz
		Channel 05: 2432MHz Channel 11: 2462MHz
		Channel 06: 2437MHz

Type of antenna	:	Connector
Type of Modulation	:	Direct Sequence Spread Spectrum
Channel Control	:	Auto

Note:
1. This device is a 2.4GHz WLAN MiniPCI Type III with USB interface included a 2.4GHz receiving function, a 2.4GHz transmitting function.
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. Regards to the frequency band operation; two rate that were included the lowest, middle and highest frequency of channel were selected to perform the test, them shown on this report.
4. This device is a composite device in accordance with Part 15 regulations. The function receiving was measured and made a test report that the report number is 022H017F under Declaration of Conformity

1.2. EUT Description

EUT is a WLAN MiniPCI Type IIIwith 11 Channels.

This device provided four kind of transmitting Speed 1, 2, 5.5 and 11Mbps. The device of RF Carrier is DBPSK modulation for transmitting Speed 1Mbps, DQPSK modulation for transmitting Speed 2Mbps and CCK modulation for transmitting Speed 5.5Mbps and 11Mbps.

The device was adapted direct sequence Speed Spectrum modulation. The antenna was printed on the PCB directly provides diversity function to improve the transmitting and receiving function.

The PCI Interface provides the connection to PC for data transmissions data can be transmitted by the radio signal connect to the local network.
1. Supports up to 11 Mbps data rate: T-1 line alternative/replacement that dramatically cuts costs.
2. Working range up to 800 ft. in an open environment enhances mobility.
3. Supports point-to point and point-to –multipoint access provides increased flexibility.
4. Seamless connectivity to wired Ethernet and PC network LAN's offers quick, trouble-free integration with existing networks.
5. Robust Direct Sequence Spread Spectrum (DSSS) technology provides secure, interference-resistant wireless connection.
6. Wireless connections eliminate the hassle and cost of cabling.
7. Supports a wide range of LAN (Local Area Network) Network Operating Systems (NOS) including Windows 98 and Windows 2000.
8. Easy Plug and Play installation (T60L198)
9. Omni-directional antenna included.
10. Greater flexibility to locate or move networked PC's.

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	FCC ID
(1) PC	IBM	16W	BNL676M	Non-shielded, 1.8m	DoC
(2) Monitor	HITACHI	CM752ET-311	T8F004799	Shielded,1.8m	
(3) Keyboard	HP	5181	BD12900515	Keyboard	--
(4) Mouse	IBM	M-SAU-IBM6	23-029014	--	JNZ211220
(5) DC Power Supply	Topward	63030	670345	--	--

Signal Cable Type		Signal Cable Description
A.	VGA Cable	Shielded, 1.8m, one ferrite core bonded
B.	Keyboard Cable	Shielded, 1.8m
C.	Mouse Cable	Shielded, 1.8m
D.	Power Line	Non-shielded, 1.0m

1.3. Configuration of tested System
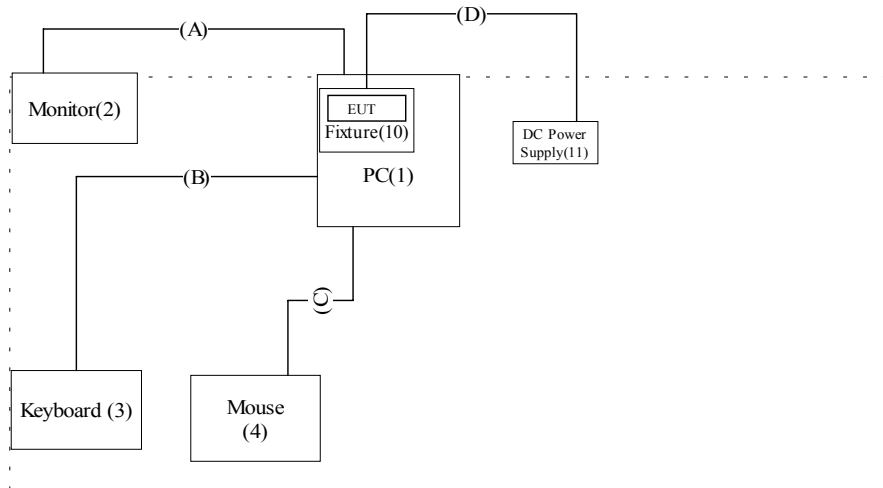
1.4. EUT Exercise Software

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   Personal Computer reads data from disk.

1.4.4   Data will be transmitted through EUT.

1.4.5   The transmission status will be shown on the monitor.

1.4.6   Repeat the above procedure 1.4.4 to 1.4.5

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

August 30, 2001 Accreditation on NVLAP
NVLAP Lab Code: 200347-0

Site Name: Quietek Corporation

Site Address: No.75-1, Wang-Yeh Valley, Yung-Hsing,
Chiung-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	No.2 Shielded Room			N/A	

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

2.2.   Test Setup
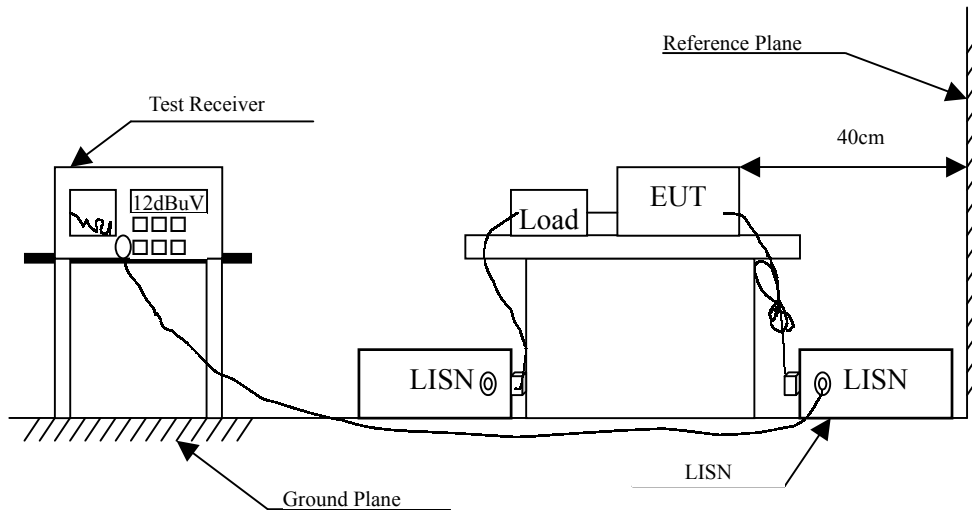
2.3.   Limits

FCC Part 15 Paragraph 15.207 (dBuV)		
Frequency	Limits	
MHz	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 : WLAN MiniPCI Type III
Test Item : Conducted Emission Test
Test Mode : Normal Operation

Frequency	Cable Loss	LISN Factor	Reading Level	Emission Level	Limits
MHz	dB	dB	dBuV	dBuV	dBuV

===

Line 1
Quasi-Peak:

0.497	0.06	0.21	33.79	34.07	48.00
* 0.594	0.07	0.23	36.80	37.10	48.00
0.697	0.08	0.25	36.64	36.97	48.00
1.095	0.11	0.29	35.96	36.35	48.00
14.012	0.31	0.53	28.75	29.59	48.00
22.266	0.37	0.57	25.24	26.18	48.00

Line 2
Quasi-Peak:

0.501	0.06	0.21	38.16	38.44	48.00
* 0.598	0.07	0.23	39.99	40.29	48.00
0.698	0.08	0.25	38.25	38.58	48.00
1.001	0.10	0.28	37.75	38.13	48.00
1.501	0.13	0.32	37.64	38.08	48.00
1.899	0.14	0.34	36.25	36.73	48.00

Remarks :

1. All Reading Levels are Quasi-Peak value.

2. " * " means that this data is the worst emission level.

3. Emission Level=Reading Level + LISN factor + Cable Loss.

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

RF Cable

EUT	SMA Connecter	Power Meter
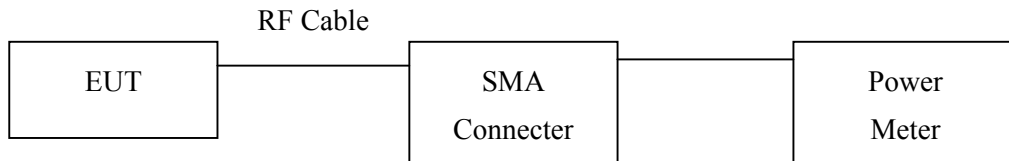
3.3. Test Condition

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   :   WLAN MiniPCI Type III
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	2412	14.50 dBm	1Watt= 30 dBm	Pass
6	2437	15.15dBm	1Watt= 30 dBm	Pass
11	2462	14.91 dBm	1Watt= 30 dBm	Pass

Data Speed: 11Mbps

Channel No.	Frequency(MHz)	Measurement	Required Limit	Result
1	2412	16.07 dBm	1Watt= 30 dBm	Pass
6	2437	16.53 dBm	1Watt= 30 dBm	Pass
11	2462	16.36 dBm	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

Friis transmission formula: $Pd = (Pout*G)/(4*pi*r^2)$

Where

Pd = power density in mW/cm^2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

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

Pd id the limit of MPE, 1 mW/cm^2 . 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   :   WLAN MiniPCI Type III
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 5.11dBi in 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	14.50	2.70
1 (11Mbps)	2412	16.07	3.23
6 (1Mbps)	2437	15.15	2.91
6 (11Mbps)	2437	16.53	3.41
11 (1Mbps)	2462	14.91	2.83
11 (11Mbps)	2462	16.36	3.34

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.

5. Radiated Emission

5.1. 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
	X	Spectrum Analyzer	Advantest	R3261C / 71720140	May, 2001
	X	Pre-Amplifier	HP	8447D/3307A01812	May, 2001
	X	Bilog Antenna	Chase	CBL6112B / 12452	Sep., 2001
	X	Horn Antenna	EM	EM6917 / 103325	May, 2001
Site # 2		Test Receiver	R & S	ESCS 30 / 825442/17	May, 2001
		Spectrum Analyzer	Advantest	R3261C / 71720609	May, 2001
		Pre-Amplifier	HP	8447D/3307A01814	May, 2001
		Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2001
		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.

5.2. Test Setup

3m

FRP Dome

1m to 4m

The height of board band or hornAntenna was scanned from 1M to 4M.
The distance between antenna and turn table was 3M regards to the standard adopted.

Non-Conducted Table

EUT

80cm

Test Receiver

Fully soldered Metal Ground

To Controller

To Receiver
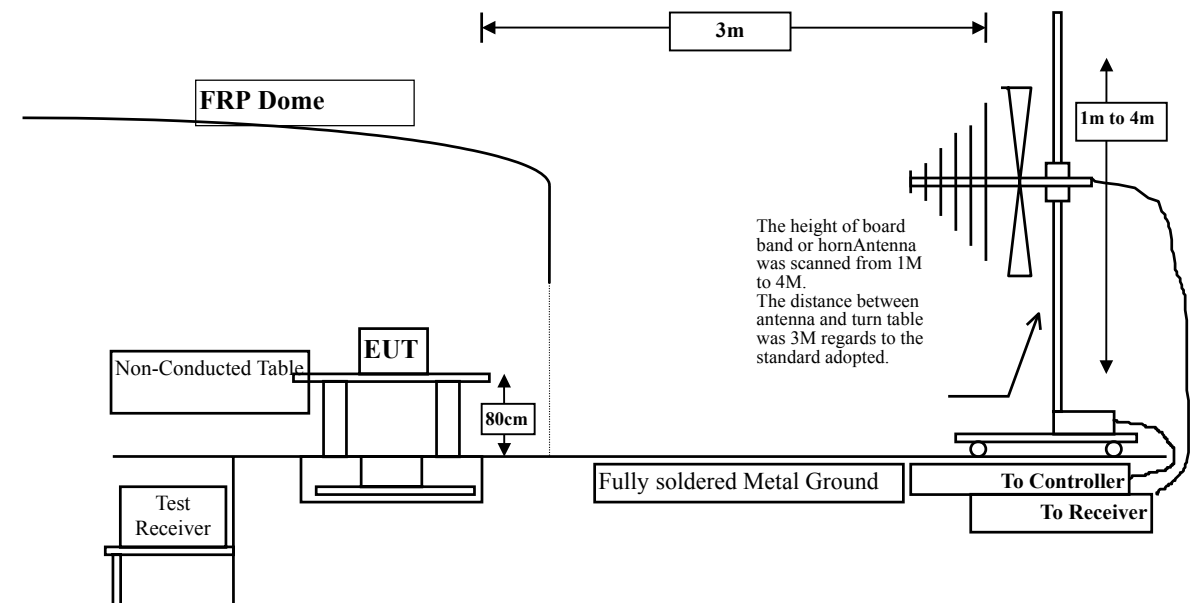
Spurious Emissions
(Band Edge Antenna Radiated)

5.3.   **Test Condition**

Standard Temperature and Humidity, Standard Test Voltage

5.4.   **Limits**

➢ **General Radiated Emission Limits**

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

Frequency MHz	General Radiated Limits (dBuV/m @3m)
30-88	40
88-216	43.5
216-960	46
Above 960	54

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

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument

antenna and the closed point of any part of the device or system.

5.5.   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 dtrength 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 harminics is checked.

5.6. Test Result of Radiated Emission

Product   :   WLAN MiniPCI Type III
Test Item   :   Harmonic Radiated Emission Data
Test Mode :   Channel 1(1Mbps)

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

Peak Detector (Horizontal)

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
4824.801	6.27	33.50	34.77	34.10	39.10	34.90	74.00
7236.600	8.32	36.24	34.90	34.30	<43.96	30.04	74.00
9649.201	10.18	37.43	35.10	35.06	<47.57	26.43	74.00

Peak Detector (Vertical)

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
4824.400	6.27	33.50	34.77	34.08	39.08	34.92	74.00
7237.001	8.32	36.24	34.90	34.27	<43.93	30.07	74.00
9648.800	10.18	37.43	35.10	35.07	<47.58	26.42	74.00

Note:

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

Product : WLAN MiniPCI Type III
Test Item : Harmonic Radiated Emission Data
Test Mode : Channel 6(1Mbps)

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

==

Peak Detector (Horizontal)

4874.551	6.32	33.56	34.75	34.08	39.21	34.79	74.00
7311.551	8.38	36.31	34.90	34.80	<44.58	29.42	74.00
9748.751	10.25	37.45	35.10	34.42	<47.02	26.98	74.00

Peak Detector (Vertical)

4874.551	6.32	33.56	34.75	34.10	39.23	34.77	74.00
7311.551	8.38	36.31	34.90	34.56	<44.34	29.66	74.00
9748.751	10.25	37.45	35.10	34.59	<47.19	26.81	74.00

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

Product : WLAN MiniPCI Type III
Test Item : Harmonic Radiated Emission Data
Test Mode : Channel 11(1Mbps)

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

==

Peak Detector (Horizontal)

4924.300	6.37	33.62	34.73	33.10	38.36	35.64	74.00
7386.100	8.45	36.39	34.90	33.61	<43.55	30.45	74.00
9848.100	10.32	37.47	35.10	35.25	<47.93	26.07	74.00

Peak Detector (Vertical)

4924.100	6.37	33.62	34.73	33.37	38.63	35.37	74.00
7385.899	8.45	36.39	34.90	35.33	<45.27	28.73	74.00
9848.300	10.32	37.47	35.10	35.13	<47.81	26.19	74.00

Note:

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

Product　　　　:　WLAN MiniPCI Type III
Test Item　　　:　Harmonic Radiated Emission Data
Test Mode　　　:　Channel 1(11Mbps)

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

==

Peak Detector (Horizontal)

4825.202	6.27	33.50	34.77	34.40	39.40	34.60	74.00
7236.600	8.32	36.24	34.90	34.58	<44.24	29.76	74.00
9648.800	10.18	37.43	35.10	34.54	<47.05	26.95	74.00

Peak Detector (Vertical)

4824.400	6.27	33.50	34.77	33.81	38.81	35.19	74.00
7236.600	8.32	36.24	34.90	34.81	<44.47	29.53	74.00
9650.002	10.18	37.43	35.10	35.03	<47.54	26.46	74.00

Note:

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

Product   :   WLAN MiniPCI Type III
Test Item   :   Harmonic Radiated Emission Data
Test Mode   :   Channel 6(11Mbps)

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

===

Peak Detector (Horizontal)

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
4874.551	6.32	33.56	34.75	33.74	38.87	35.13	74.00
7311.751	8.38	36.31	34.90	34.08	<43.86	30.14	74.00
9748.551	10.25	37.45	35.10	36.02	<48.62	25.38	74.00

Peak Detector (Vertical)

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
4874.751	6.32	33.56	34.75	34.04	39.17	34.83	74.00
7311.951	8.38	36.31	34.90	35.14	<44.92	29.08	74.00
9748.551	10.25	37.45	35.10	35.06	<47.66	26.34	74.00

Note:

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

Product : WLAN MiniPCI Type III
Test Item : Harmonic Radiated Emission Data
Test Mode : Channel 11(11Mbps)

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

===

Peak Detector (Horizontal)

4923.949	6.37	33.62	34.73	33.41	38.67	35.33	74.00
7384.246	8.43	36.37	34.90	44.38	54.29	19.71	74.00
9847.949	10.32	37.47	35.10	38.21	50.89	23.11	74.00
12310.05	12.07	39.22	34.46	34.49	<51.33	22.67	74.00
14771.94	13.72	40.19	34.51	25.02	<44.42	29.58	74.00

Average

7388.955	8.45	36.39	34.90	32.77	42.71	11.29	54.00

Peak Detector (Vertical)

4923.899	6.37	33.62	34.73	33.19	38.45	35.55	74.00
7384.496	8.43	36.37	34.90	45.27	55.18	18.82	74.00
9848.050	10.32	37.47	35.10	36.39	<49.07	24.93	74.00
12309.94	12.07	39.22	34.46	34.30	<51.14	22.86	74.00

Average

7388.755	8.45	36.39	34.90	34.15	44.09	9.91	54.00

Note:

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

Product   :   WLAN MiniPCI Type III
Test Item   :   General Radiated Emission Data
Test Mode   :   Channel 1(1Mbps)

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

==

Horizontal:

	Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
	100.810	1.31	17.44	26.88	46.40	38.28	5.22	43.50
*	232.730	1.85	16.45	26.93	52.80	44.17	1.83	46.00
	495.600	2.93	20.81	26.64	44.00	41.09	4.91	46.00
	562.530	3.20	21.72	26.54	39.20	37.59	8.41	46.00
	620.730	3.44	22.29	26.45	40.80	40.09	5.91	46.00
	692.510	3.74	22.02	26.33	36.80	36.22	9.78	46.00

Vertical:

	Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
	199.750	1.71	15.24	26.91	48.00	38.04	5.46	43.50
	231.760	1.84	16.31	26.92	45.00	36.23	9.77	46.00
	497.540	2.94	20.73	26.64	43.40	40.43	5.57	46.00
	563.500	3.21	21.82	26.54	41.60	40.09	5.91	46.00
*	621.700	3.45	22.29	26.44	44.40	43.69	2.31	46.00
	692.510	3.74	22.02	26.33	37.60	37.02	8.98	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 = Reading Level + Probe Factor + Cable loss.- PreAMP.

Product   :   WLAN MiniPCI Type III
Test Item   :   General Radiated Emission Data
Test Mode   :   Channel 6(1Mbps)

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

Horizontal:

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
99.840	1.30	17.25	26.88	49.60	41.28	2.22	43.50
* 127.000	1.42	17.85	26.89	49.00	41.38	2.12	43.50
231.760	1.84	16.31	26.92	51.60	42.83	3.17	46.00
495.600	2.93	20.81	26.64	43.80	40.89	5.11	46.00
563.500	3.21	21.82	26.54	38.60	37.09	8.91	46.00
621.700	3.45	22.29	26.44	41.20	40.49	5.51	46.00

Vertical:

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
199.750	1.71	15.24	26.91	47.80	37.84	5.66	43.50
232.730	1.85	16.45	26.93	48.00	39.37	6.63	46.00
496.570	2.93	20.83	26.64	43.20	40.33	5.67	46.00
561.560	3.20	21.80	26.54	40.40	38.86	7.14	46.00
*620.730	3.44	22.29	26.45	44.60	43.89	2.11	46.00
693.480	3.74	22.04	26.33	38.40	37.85	8.15	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 = Reading Level + Probe Factor + Cable loss.- PreAMP.

Product : WLAN MiniPCI Type III
Test Item : General Radiated Emission Data
Test Mode : Channel 11(1Mbps)

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

===

Horizontal:

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
127.000	1.42	17.85	26.89	48.20	40.58	2.92	43.50
* 232.730	1.85	16.45	26.93	52.20	43.57	2.43	46.00
495.600	2.93	20.81	26.64	43.80	40.89	5.11	46.00
563.500	3.21	21.82	26.54	37.80	36.29	9.71	46.00
621.700	3.45	22.29	26.44	42.60	41.89	4.11	46.00
697.360	3.76	22.08	26.33	35.40	34.92	11.08	46.00

Vertical:

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
198.780	1.71	15.14	26.91	47.80	37.73	5.77	43.50
231.760	1.84	16.31	26.92	47.80	39.03	6.97	46.00
497.540	2.94	20.73	26.64	42.60	39.63	6.37	46.00
562.530	3.20	21.72	26.54	40.40	38.79	7.21	46.00
*620.730	3.44	22.29	26.45	45.00	44.29	1.71	46.00
641.100	3.53	22.24	26.41	37.40	36.76	9.24	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 = Reading Level + Probe Factor + Cable loss.- PreAMP.

Product   :   WLAN MiniPCI Type III
Test Item   :   General Radiated Emission Data
Test Mode   :   Channel 1(11Mbps)

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

Horizontal:

Freq. MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
* 100.810	1.31	17.44	26.88	49.80	41.68	1.82	43.50
232.730	1.85	16.45	26.93	48.40	39.77	6.23	46.00
494.630	2.92	20.81	26.64	42.40	39.49	6.51	46.00
562.530	3.20	21.72	26.54	36.80	35.19	10.81	46.00
620.730	3.44	22.29	26.45	42.20	41.49	4.51	46.00
692.510	3.74	22.02	26.33	36.20	35.62	10.38	46.00

Vertical:

Freq. MHz	Cable Loss dB	Probe Factor dB/m	PreAMP dB	Reading Level dBuV	Emission Level dBuV/m	Margin dB	Limit dBuV/m
199.750	1.71	15.24	26.91	47.00	37.04	6.46	43.50
232.730	1.85	16.45	26.93	46.00	37.37	8.63	46.00
496.570	2.93	20.83	26.64	43.60	40.73	5.27	46.00
*626.550	3.47	22.33	26.44	43.60	42.97	3.03	46.00
641.100	3.53	22.24	26.41	37.00	36.36	9.64	46.00
692.510	3.74	22.02	26.33	36.40	35.82	10.18	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 = Reading Level + Probe Factor + Cable loss.- PreAMP.

Product   :   WLAN MiniPCI Type III
Test Item   :   General Radiated Emission Data
Test Mode   :   Channel 6(11Mbps)

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

==

Horizontal:

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
*100.810	1.31	17.44	26.88	48.60	40.48	3.02	43.50
232.730	1.85	16.45	26.93	49.40	40.77	5.23	46.00
495.600	2.93	20.81	26.64	42.20	39.29	6.71	46.00
612.000	3.41	22.03	26.46	35.80	34.78	11.22	46.00
626.550	3.47	22.33	26.44	43.00	42.37	3.63	46.00
692.510	3.74	22.02	26.33	36.60	36.02	9.98	46.00

Vertical:

Freq.	Cable Loss	Probe Factor	PreAMP	Reading Level	Emission Level	Margin	Limit
199.750	1.71	15.24	26.91	46.20	36.24	7.26	43.50
230.790	1.84	16.31	26.92	46.40	37.63	8.37	46.00
496.570	2.93	20.83	26.64	43.00	40.13	5.87	46.00
563.500	3.21	21.82	26.54	37.40	35.89	10.11	46.00
*621.700	3.45	22.29	26.44	42.60	41.89	4.11	46.00
692.510	3.74	22.02	26.33	36.80	36.22	9.78	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 = Reading Level + Probe Factor + Cable loss.- PreAMP.

Product   :   WLAN MiniPCI Type III
Test Item   :   General Radiated Emission Data
Test Mode   :   Channel 11(11Mbps)

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

Horizontal:

*100.810	1.31	17.44	26.88	48.00	39.88	3.62	43.50
231.760	1.84	16.31	26.92	49.00	40.23	5.77	46.00
495.600	2.93	20.81	26.64	42.20	39.29	6.71	46.00
563.500	3.21	21.82	26.54	36.60	35.09	10.91	46.00
621.700	3.45	22.29	26.44	42.00	41.29	4.71	46.00
693.480	3.74	22.04	26.33	36.40	35.85	10.15	46.00

Vertical:

199.750	1.71	15.24	26.91	46.60	36.64	6.86	43.50
230.790	1.84	16.31	26.92	47.80	39.03	6.97	46.00
495.600	2.93	20.81	26.64	42.60	39.69	6.31	46.00
563.500	3.21	21.82	26.54	36.20	34.69	11.31	46.00
*621.700	3.45	22.29	26.44	43.60	42.89	3.11	46.00
692.510	3.74	22.02	26.33	36.80	36.22	9.78	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 = Reading Level + Probe Factor + Cable loss.- PreAMP.

5.7.   Test Result of Band Edge

Product   :   WLAN MiniPCI Type III
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

Figure Channel 1: 1Mbps (Horizontal)
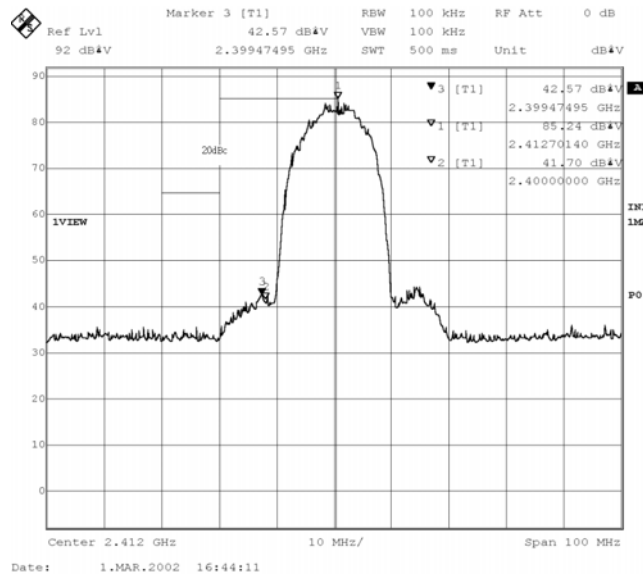
Figure Channel 1: 1Mbps (Vertical)

Product   :   WLAN MiniPCI Type III
Test Item   :   Band Edge Data
Test Site   :   No.1 OATS
Test Mode   :   Channel 1

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

Figure Channel 1:11Mbps (Horizontal)

Figure Channel 1:11Mbps (Vertical)
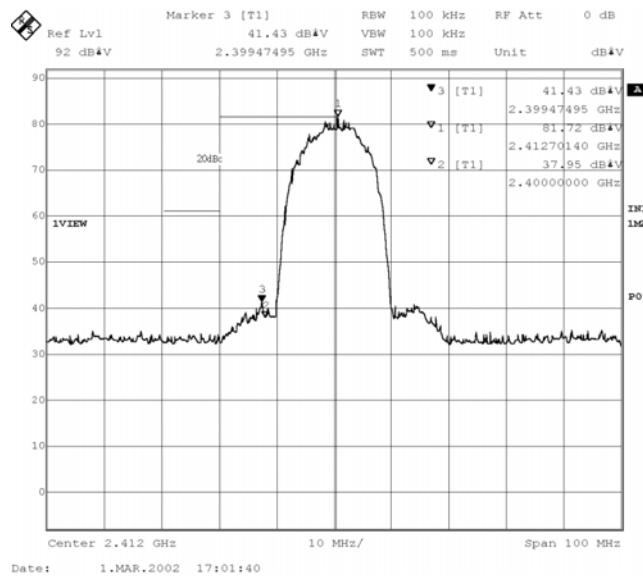
Product : WLAN MiniPCI Type III
Test Item : Band Edge Data
Test Site : No.1 OATS
Test Mode : Channel 11

Band Edge-1 Mbps (Horizontal)

Frequency (MHz).	Reading (dBuV)	Measure (dBuV/m)	Limit (dBuV/m)
2487.4	54.35	52.8	54
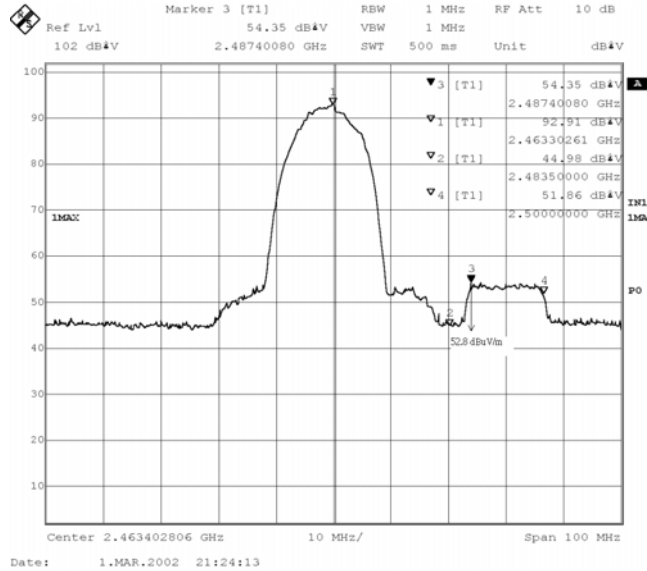
Band Edge-1 Mbps (Vertical)

Frequency (MHz).	Reading (dBuV)	Measure (dBuV/m)	Limit (dBuV/m)
2487.6	48.88	47.39	54
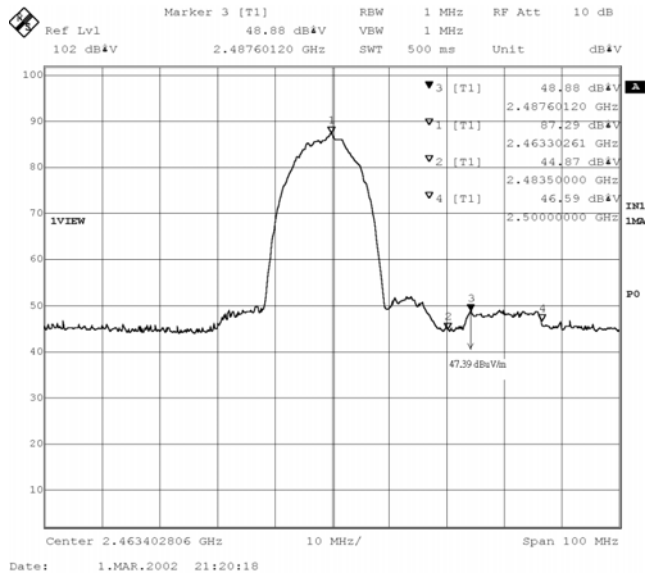
Band Edge-11 Mbps (Horizontal)

Frequency (MHz).	Reading (dBuV)	Measure (dBuV/m)	Limit (dBuV/m)
2489	53.28	51.78	54
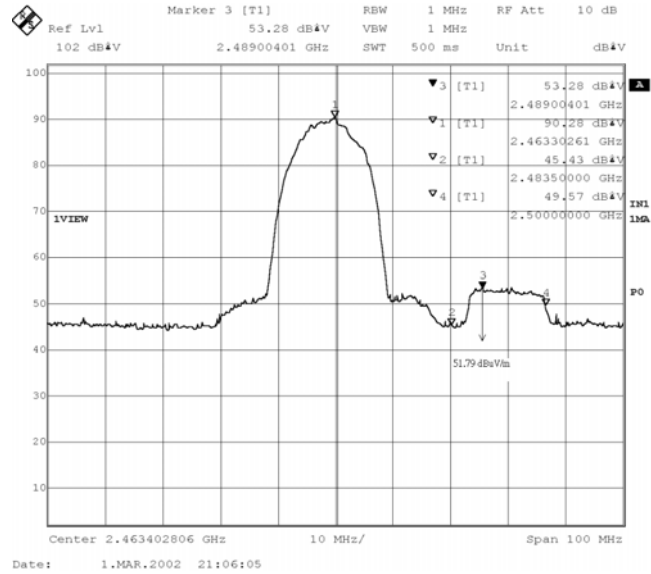
Band Edge-11 Mbps (Vertical)

Frequency (MHz).	Reading (dBuV)	Measure (dBuV/m)	Limit (dBuV/m)
2495.36	50.00	48.51	54
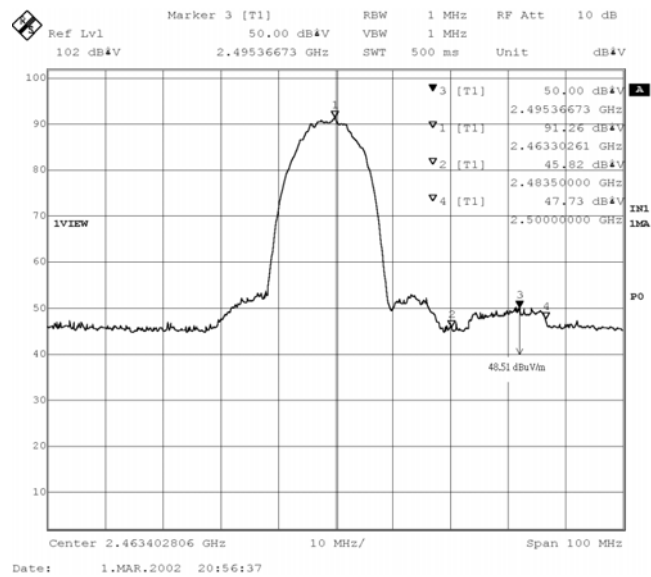
6. Occupied Bandwidth

6.1. Test Equipment

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

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	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.

6.2. Test Setup

RF Cable

EUT		SMA Connecter		Spectrum Analyzer
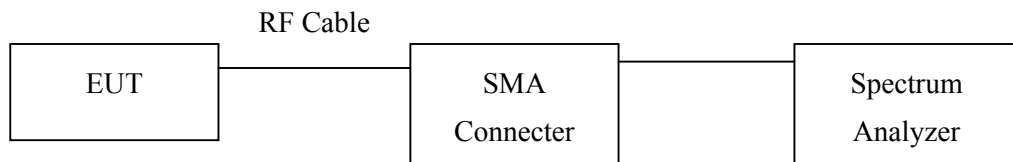
6.3. Test Condition

Standard Temperature and Humidity, Standard Test Voltage

6.4. Standard Reqirement

The minimum bandwidth shall be at least 500kHz.

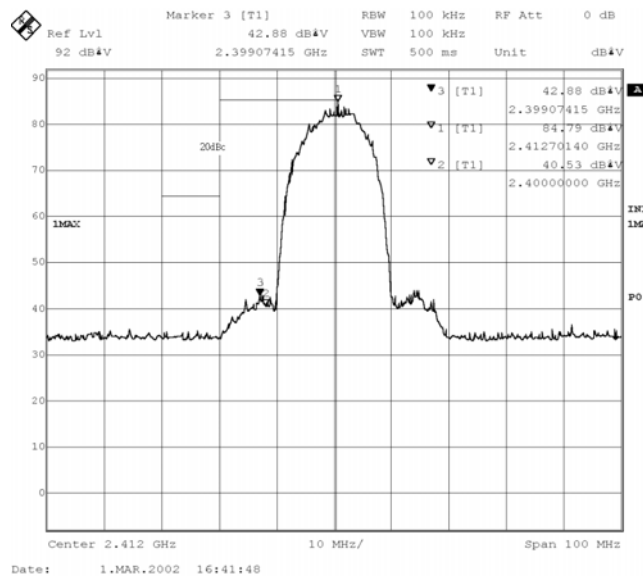## 6.5.   Test Result of Occupied Bandwidth

Product   :   WLAN MiniPCI Type III
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)	2412.9	10900	>500	Pass
1 (11Mbps)	2413.1	10500	>500	Pass

Figure Channel 1: 1Mbps
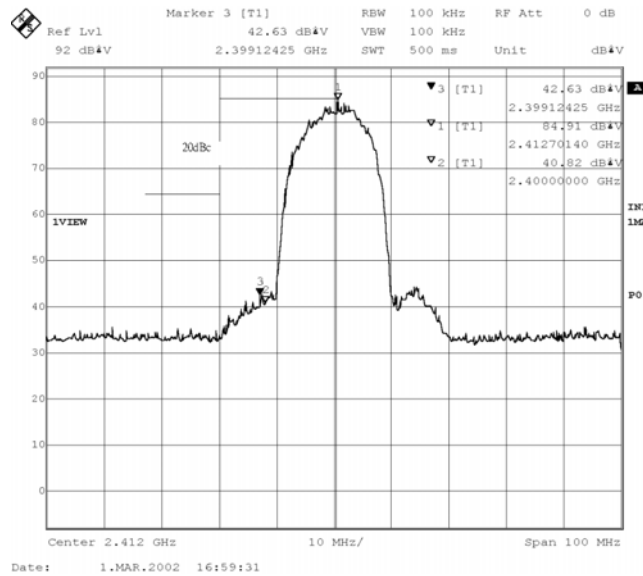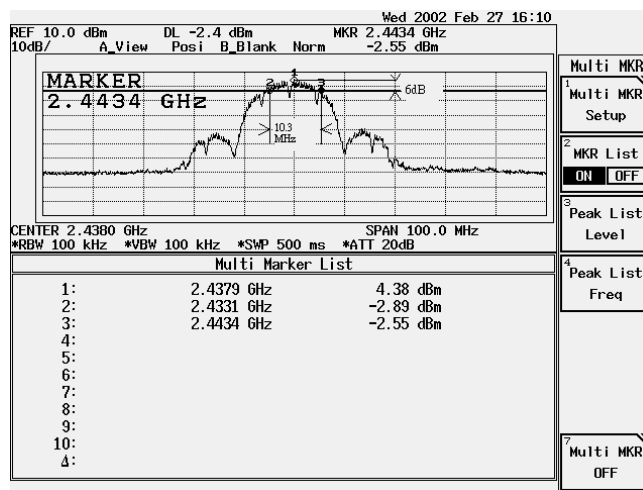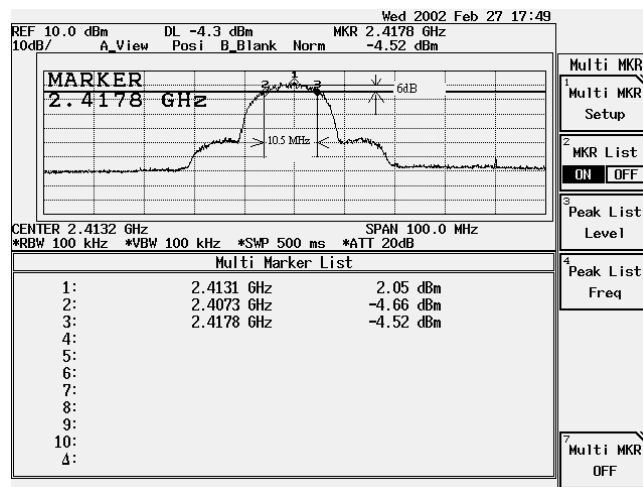

Figure Channel 1: 11Mbps

Product   :   WLAN MiniPCI Type III
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)	2437.9	10300	>500	Pass
6 (11Mbps)	2438.1	10500	>500	Pass

**Figure Channel 6:**   1Mbps
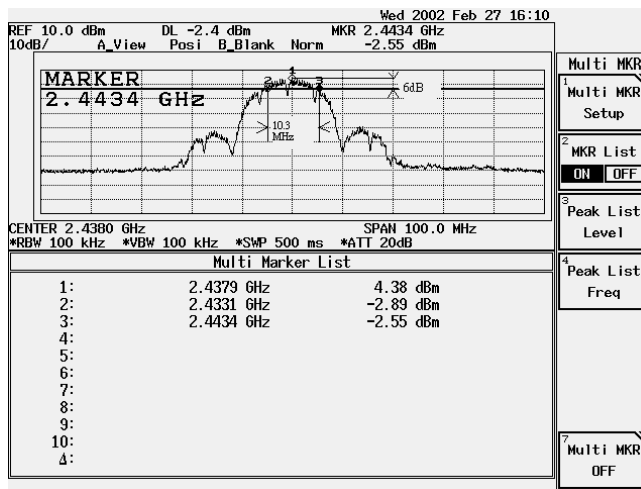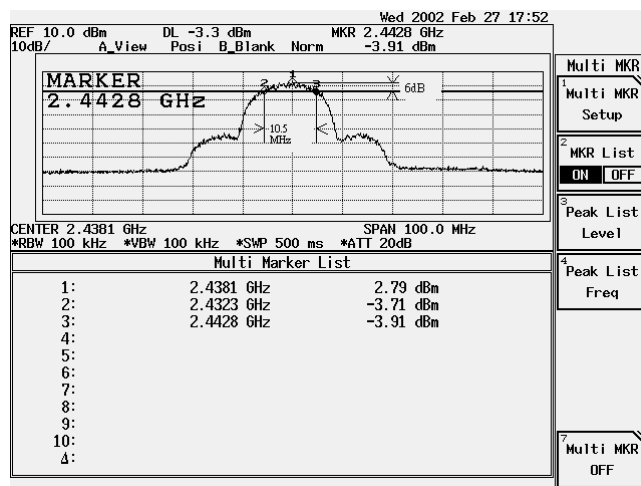
Figure Channel 6: 11Mbps

Product　　　:　WLAN MiniPCI Type III
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)	2462.9	11000	>500	Pass
11 (11Mbps)	2463.1	10100	>500	Pass

Figure Channel 11: 1Mbps
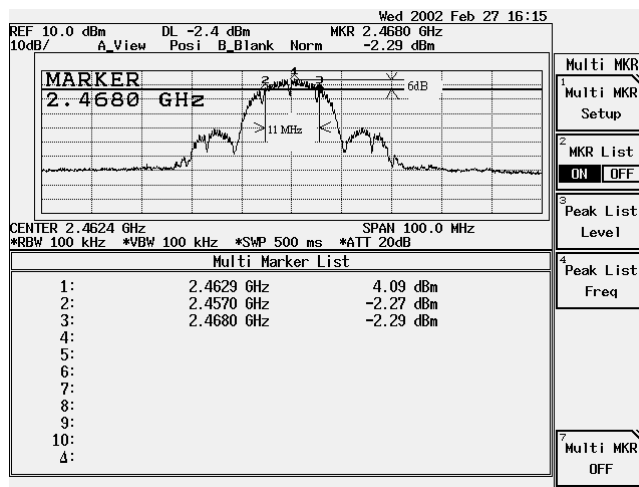
Figure Channel 11: 11Mbps
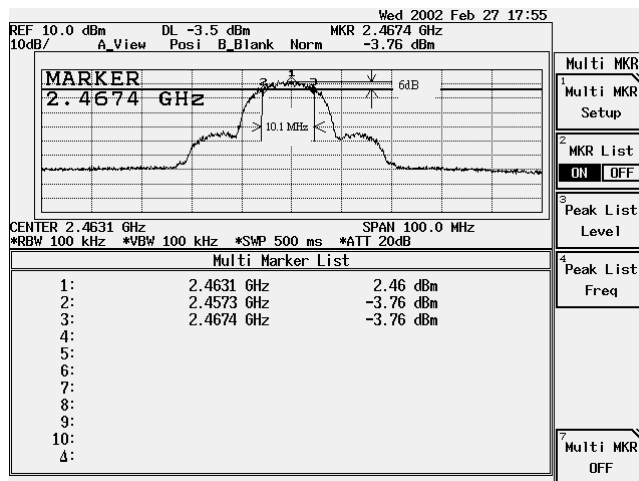
7. Transmitter Power Density

7.1. Test Equipment

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

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

7.2. Test Setup

RF Cable

| EUT | | SMA Connecter | | Spectrum Analyzer |
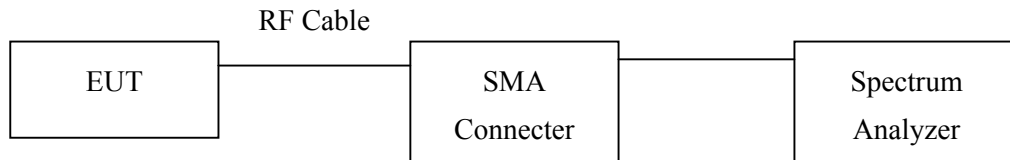
7.3. Test Condition

Standard Temperature and Humidity, Standard Test Voltage

7.4. Standard Reqirement

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

7.5. Test Result of Transmitter Power Density

Product   :   WLAN MiniPCI Type III
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)	2412.741	-13.11dBm	< 8dBm	Pass
1 (11Mbps)	2411.11	-11.69dBm	< 8dBm	Pass

Figure Channel 1:1Mbps
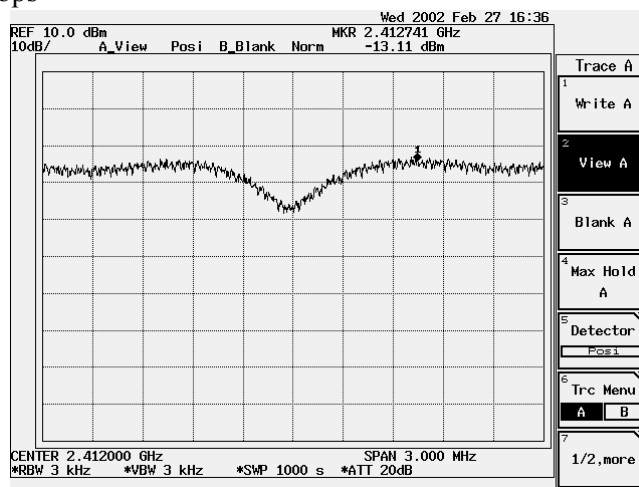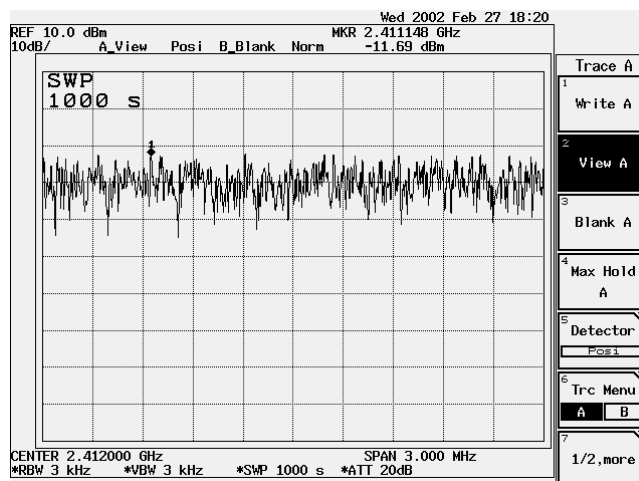
Figure Channel 1:11Mbps

Product : WLAN MiniPCI Type III
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)	2437.741	-12.40dBm	< 8dBm	Pass
6 (11Mbps)	2436.148	-10.84dBm	< 8dBm	Pass

Figure Channel 6:1Mbps
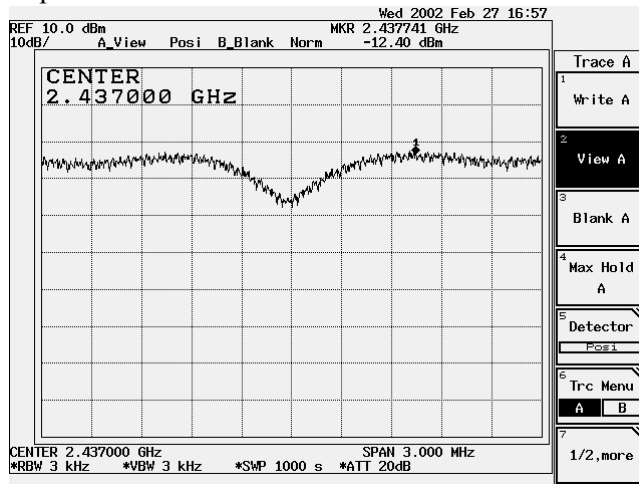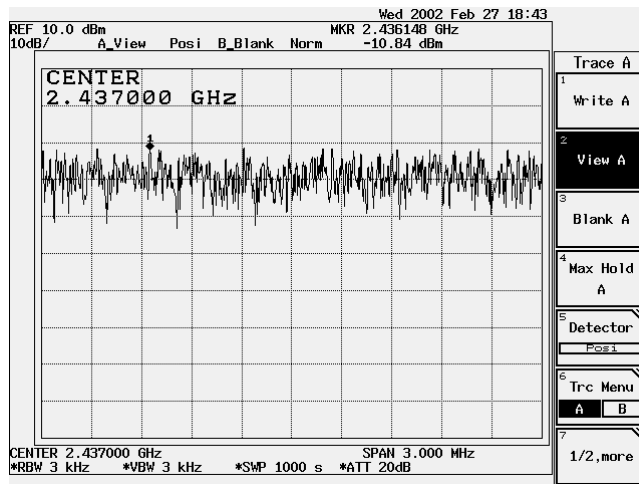
Figure Channel 6:11Mbps

Product   :   WLAN MiniPCI Type III
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)	2462.744	-12.73dBm	< 8dBm	Pass
11 (11Mbps)	2462.000	-11.25dBm	< 8dBm	Pass

Figure Channel 11:1Mbps
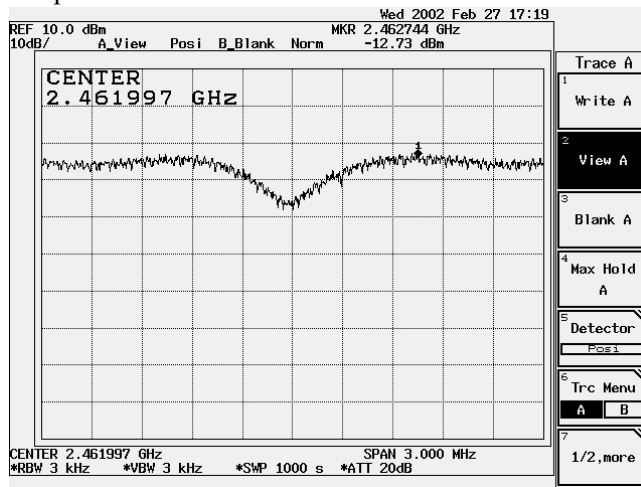
Figure Channel 11:11Mbps
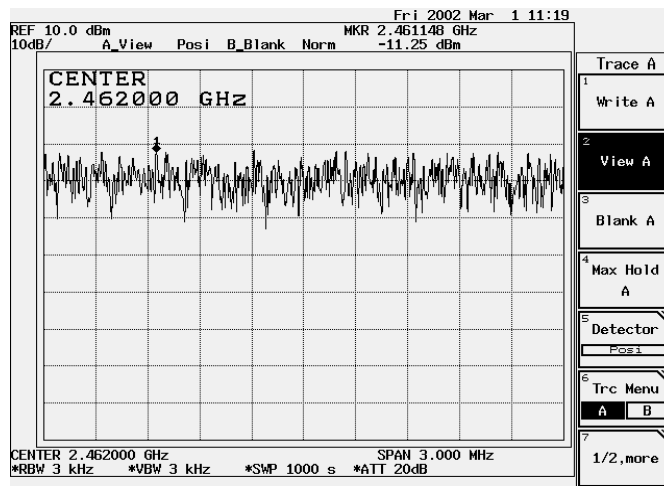
8. Processing Gain

8.1. Test Condition

Standard Temperature and Humidity, Standard Test Voltage

8.2. Minimum Standard

The processing gain shall be at least 10 dB.

8.3. Method of Measurement

The processing gain of this spread spectrum was measured the CW jamming method. The Section9.1 illustrates the measurement setup. The output power of the spread spectrum transmitter is fixed and the output power of jammed is adjustable. The frequency of iammer was stopped through the pass band of nominal channel in 50kHz steps. In each frequency step of the jammed, the output power of rammed is adjusted to cause the Bit Error Rate (BER) to be 1.0*10e-6. The power levels are recorded to calculate the J/S as shown in Table 1.

8.4. Calculation of Processing Gain:

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

Gp = (S/N)o + Mj + Lsys

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

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

Lsys is the system loss

The (S/N)o is calculated from:

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

For the Pe(BER) = 1.0*10e-6, the required (S/N)o is 16.4dB

From Measurement, the minimum J/S(Mj) is $\geqq 8.4$dB
We assume the system loss is 2dB.
Therefore the processing gain is calculated below:

Gp = (S/N)o + Mj + Lsys = 16.4 + (-8.4) + 2 = 10 (dB)

8.5. Test Result of Processing Gain

Product   :   WLAN MiniPCI Type III
Test Item   :   Processing Gain Data
Test Site   :   No.1 OATS
Test Mode   :   Figure Channel 1:Normal Operation

Freq (GHz)	Gp (dB)	(S/N)o (dB)	Mj=J/S (dB)	Lsys (dB)	Jammer (dBm)	FER
2.4035	19.9	16.4	1.5	2	-38.5	7.8
2.40355	19.7	16.4	1.3	2	-38.7	7.3
2.4036	19.2	16.4	0.8	2	-39.2	5.6
2.40365	19.2	16.4	0.8	2	-39.2	5.6
2.4037	19.2	16.4	0.8	2	-39.2	5.7
2.40375	19.8	16.4	1.4	2	-38.6	7.5
2.4038	19	16.4	0.6	2	-39.4	5
2.40385	19	16.4	0.6	2	-39.4	5
2.4039	19.2	16.4	0.8	2	-39.2	5.6
2.40395	19.9	16.4	1.5	2	-38.5	7.7
2.404	19.3	16.4	0.9	2	-39.1	6
2.40405	19.4	16.4	1	2	-39	6.2
2.4041	19.6	16.4	1.2	2	-38.8	6.9
2.40415	19.9	16.4	1.5	2	-38.5	7.8
2.4042	19	16.4	0.6	2	-39.4	5
2.40425	19	16.4	0.6	2	-39.4	5.1
2.4043	18.6	16.4	0.2	2	-39.8	6.9
2.40435	18.4	16.4	0	2	-40	6.3
2.4044	18.4	16.4	0	2	-40	6.4
2.40445	18.2	16.4	-0.2	2	-40.2	5.6
2.4045	18.2	16.4	-0.2	2	-40.2	5.6
2.40455	18.3	16.4	-0.1	2	-40.1	6.1
2.4046	18.8	16.4	0.4	2	-39.6	7.6
2.40465	18.7	16.4	0.3	2	-39.7	7.3
2.4047	18.4	16.4	0	2	-40	6.4
2.40475	18	16.4	-0.4	2	-40.4	5.1
2.4048	18.1	16.4	-0.3	2	-40.3	5.5
2.40485	18.6	16.4	0.2	2	-39.8	6.8
2.4049	18.2	16.4	-0.2	2	-40.2	5.7
2.40495	18.4	16.4	0	2	-40	6.2

2.405	18.4	16.4	0	2	-40	6.4
2.40505	18.3	16.4	-0.1	2	-40.1	6
2.4051	18.7	16.4	0.3	2	-39.7	7.1
2.40515	18.5	16.4	0.1	2	-39.9	6.6
2.4052	18.6	16.4	0.2	2	-39.8	7
2.40525	17.9	16.4	-0.5	2	-40.5	7.7
2.4053	17.5	16.4	-0.9	2	-40.9	6.5
2.40535	17.6	16.4	-0.8	2	-40.8	6.9
2.4054	17.5	16.4	-0.9	2	-40.9	6.5
2.40545	17.5	16.4	-0.9	2	-40.9	6.6
2.4055	17.8	16.4	-0.6	2	-40.6	7.4
2.40555	17.4	16.4	-1	2	-41	6.2
2.4056	17.6	16.4	-0.8	2	-40.8	6.8
2.40565	17.4	16.4	-1	2	-41	6.2
2.4057	17.2	16.4	-1.2	2	-41.2	5.8
2.40575	16.6	16.4	-1.8	2	-41.8	6.9
2.4058	16.6	16.4	-1.8	2	-41.8	7
2.40585	16.8	16.4	-1.6	2	-41.6	7.5
2.4059	16.1	16.4	-2.3	2	-42.3	5.4
2.40595	16.9	16.4	-1.5	2	-41.5	7.9
2.406	16.6	16.4	-1.8	2	-41.8	7
2.40605	16.8	16.4	-1.6	2	-41.6	7.4
2.4061	16	16.4	-2.4	2	-42.4	5.1
2.40615	16.1	16.4	-2.3	2	-42.3	5.3
2.4062	16.4	16.4	-2	2	-42	6.4
2.40625	16.8	16.4	-1.6	2	-41.6	7.6
2.4063	16	16.4	-2.4	2	-42.4	5.1
2.40635	15	16.4	-3.4	2	-43.4	5.2
2.4064	15	16.4	-3.4	2	-43.4	5.1
2.40645	15.6	16.4	-2.8	2	-42.8	6.8
2.4065	15.2	16.4	-3.2	2	-43.2	5.8
2.40655	15.5	16.4	-2.9	2	-42.9	6.5
2.4066	15.1	16.4	-3.3	2	-43.3	5.3
2.40665	15	16.4	-3.4	2	-43.4	5.1
2.4067	15.1	16.4	-3.3	2	-43.3	5.3
2.40675	15.2	16.4	-3.2	2	-43.2	5.6
2.4068	15.5	16.4	-2.9	2	-42.9	6.5
2.40685	15.9	16.4	-2.5	2	-42.5	7.9

2.4069	15.1	16.4	-3.3	2	-43.3	5.4
2.40695	14.4	16.4	-4	2	-44	6.3
2.407	14.1	16.4	-4.3	2	-44.3	5.5
2.40705	14.5	16.4	-3.9	2	-43.9	6.7
2.4071	14.5	16.4	-3.9	2	-43.9	6.6
2.40715	14.6	16.4	-3.8	2	-43.8	6.9
2.4072	14.5	16.4	-3.9	2	-43.9	6.5
2.40725	14	16.4	-4.4	2	-44.4	5
2.4073	14.5	16.4	-3.9	2	-43.9	6.6
2.40735	14	16.4	-4.4	2	-44.4	5.1
2.4074	14	16.4	-4.4	2	-44.4	5.1
2.40745	13.4	16.4	-5	2	-45	6.3
2.4075	13.7	16.4	-4.7	2	-44.7	7.3
2.40755	13.7	16.4	-4.7	2	-44.7	7.2
2.4076	13.7	16.4	-4.7	2	-44.7	7.2
2.40765	13.2	16.4	-5.2	2	-45.2	5.8
2.4077	13.2	16.4	-5.2	2	-45.2	5.6
2.40775	13.4	16.4	-5	2	-45	6.4
2.4078	13.5	16.4	-4.9	2	-44.9	6.5
2.40785	13.4	16.4	-5	2	-45	6.4
2.4079	13.5	16.4	-4.9	2	-44.9	6.7
2.40795	13.4	16.4	-5	2	-45	6.3
2.408	12.4	16.4	-6	2	-46	6.4
2.40805	12	16.4	-6.4	2	-46.4	5.1
2.4081	12.8	16.4	-5.6	2	-45.6	7.4
2.40815	12.8	16.4	-5.6	2	-45.6	7.4
2.4082	12	16.4	-6.4	2	-46.4	5.2
2.40825	12	16.4	-6.4	2	-46.4	5.1
2.4083	12.9	16.4	-5.5	2	-45.5	7.9
2.40835	12.1	16.4	-6.3	2	-46.3	5.4
2.4084	12.5	16.4	-5.9	2	-45.9	6.5
2.40845	12.7	16.4	-5.7	2	-45.7	7.3
2.4085	12.6	16.4	-5.8	2	-45.8	7
2.40855	12.6	16.4	-5.8	2	-45.8	6.9
2.4086	12.4	16.4	-6	2	-46	6.2
2.40865	12.9	16.4	-5.5	2	-45.5	7.8
2.4087	12	16.4	-6.4	2	-46.4	5.1
2.40875	12.9	16.4	-5.5	2	-45.5	7.7

2.4088	12	16.4	-6.4	2	-46.4	5
2.40885	12.4	16.4	-6	2	-46	6.4
2.4089	12.7	16.4	-5.7	2	-45.7	7.2
2.40895	12.9	16.4	-5.5	2	-45.5	7.9
2.409	11.7	16.4	-6.7	2	-46.7	7.3
2.40905	11.5	16.4	-6.9	2	-46.9	6.6
2.4091	11.8	16.4	-6.6	2	-46.6	7.6
2.40915	11.1	16.4	-7.3	2	-47.3	5.5
2.4092	11.8	16.4	-6.6	2	-46.6	7.6
2.40925	11.4	16.4	-7	2	-47	6.4
2.4093	11.3	16.4	-7.1	2	-47.1	6
2.40935	11.7	16.4	-6.7	2	-46.7	7.3
2.4094	11	16.4	-7.4	2	-47.4	5.2
2.40945	11.2	16.4	-7.2	2	-47.2	5.8
2.4095	11.6	16.4	-6.8	2	-46.8	6.9
2.40955	11.8	16.4	-6.6	2	-46.6	7.5
2.4096	11	16.4	-7.4	2	-47.4	5.1
2.40965	11.3	16.4	-7.1	2	-47.1	6
2.4097	11.1	16.4	-7.3	2	-47.3	5.3
2.40975	11.3	16.4	-7.1	2	-47.1	6.1
2.4098	11.4	16.4	-7	2	-47	6.4
2.40985	11.8	16.4	-6.6	2	-46.6	7.5
2.4099	11	16.4	-7.4	2	-47.4	5.2
2.40995	11.2	16.4	-7.2	2	-47.2	5.6
2.41	11.8	16.4	-6.6	2	-46.6	7.6
2.41005	11.9	16.4	-6.5	2	-46.5	7.9
2.4101	11.7	16.4	-6.7	2	-46.7	7.1
2.41015	11.5	16.4	-6.9	2	-46.9	6.7
2.4102	11.2	16.4	-7.2	2	-47.2	5.8
2.41025	11.1	16.4	-7.3	2	-47.3	5.4
2.4103	11.8	16.4	-6.6	2	-46.6	7.5
2.41035	11.1	16.4	-7.3	2	-47.3	5.4
2.4104	11	16.4	-7.4	2	-47.4	5
2.41045	11.8	16.4	-6.6	2	-46.6	7.4
2.4105	11.6	16.4	-6.8	2	-46.8	7
2.41055	11	16.4	-7.4	2	-47.4	5.2
2.4106	11	16.4	-7.4	2	-47.4	5.2
2.41065	11.4	16.4	-7	2	-47	6.4

2.4107	11	16.4	-7.4	2	-47.4	5
2.41075	11	16.4	-7.4	2	-47.4	5.2
2.4108	11.4	16.4	-7	2	-47	6.4
2.41085	11.9	16.4	-6.5	2	-46.5	7.8
2.4109	11.7	16.4	-6.7	2	-46.7	7.2
2.41095	11.6	16.4	-6.8	2	-46.8	6.9
2.411	11.4	16.4	-7	2	-47	6.3
2.41105	11.4	16.4	-7	2	-47	6.3
2.4111	11.8	16.4	-6.6	2	-46.6	7.4
2.41115	11.8	16.4	-6.6	2	-46.6	7.4
2.4112	11.2	16.4	-7.2	2	-47.2	5.6
2.41125	11.8	16.4	-6.6	2	-46.6	7.5
2.4113	11.6	16.4	-6.8	2	-46.8	6.8
2.41135	11.6	16.4	-6.8	2	-46.8	6.8
2.4114	11.4	16.4	-7	2	-47	6.2
2.41145	11.5	16.4	-6.9	2	-46.9	6.5
2.4115	11.7	16.4	-6.7	2	-46.7	7.2
2.41155	11.3	16.4	-7.1	2	-47.1	6
2.4116	11.2	16.4	-7.2	2	-47.2	5.6
2.41165	11.8	16.4	-6.6	2	-46.6	7.5
2.4117	11.7	16.4	-6.7	2	-46.7	7.1
2.41175	11.4	16.4	-7	2	-47	6.2
2.4118	11	16.4	-7.4	2	-47.4	5.2
2.41185	11.6	16.4	-6.8	2	-46.8	7
2.4119	11.5	16.4	-6.9	2	-46.9	6.5
2.41195	11.9	16.4	-6.5	2	-46.5	7.7
2.412	11.2	16.4	-7.2	2	-47.2	5.6
2.41205	11.1	16.4	-7.3	2	-47.3	5.3
2.4121	11.3	16.4	-7.1	2	-47.1	6
2.41215	11.9	16.4	-6.5	2	-46.5	7.9
2.4122	11.4	16.4	-7	2	-47	6.2
2.41225	11.5	16.4	-6.9	2	-46.9	6.6
2.4123	11	16.4	-7.4	2	-47.4	5.2
2.41235	11.3	16.4	-7.1	2	-47.1	6.1
2.4124	11.5	16.4	-6.9	2	-46.9	6.5
2.41245	11.3	16.4	-7.1	2	-47.1	6
2.4125	11.5	16.4	-6.9	2	-46.9	6.6
2.41255	11.1	16.4	-7.3	2	-47.3	5.5

2.4126	11.8	16.4	-6.6	2	-46.6	7.5
2.41265	11.7	16.4	-6.7	2	-46.7	7.1
2.4127	11	16.4	-7.4	2	-47.4	5
2.41275	11.4	16.4	-7	2	-47	6.3
2.4128	11	16.4	-7.4	2	-47.4	5.2
2.41285	11.2	16.4	-7.2	2	-47.2	5.7
2.4129	11.9	16.4	-6.5	2	-46.5	7.7
2.41295	11.3	16.4	-7.1	2	-47.1	5.9
2.413	11.4	16.4	-7	2	-47	6.2
2.41305	11.1	16.4	-7.3	2	-47.3	5.5
2.4131	11.8	16.4	-6.6	2	-46.6	7.5
2.41315	11.7	16.4	-6.7	2	-46.7	7.1
2.4132	11.4	16.4	-7	2	-47	6.2
2.41325	11.3	16.4	-7.1	2	-47.1	5.9
2.4133	11.2	16.4	-7.2	2	-47.2	5.7
2.41335	11.1	16.4	-7.3	2	-47.3	5.5
2.4134	11.4	16.4	-7	2	-47	6.3
2.41345	11.6	16.4	-6.8	2	-46.8	6.8
2.4135	11.4	16.4	-7	2	-47	6.3
2.41355	11.9	16.4	-6.5	2	-46.5	7.8
2.4136	11.7	16.4	-6.7	2	-46.7	7.2
2.41365	11.7	16.4	-6.7	2	-46.7	7.2
2.4137	11.3	16.4	-7.1	2	-47.1	5.9
2.41375	11.5	16.4	-6.9	2	-46.9	6.7
2.4138	11.4	16.4	-7	2	-47	6.4
2.41385	11.4	16.4	-7	2	-47	6.3
2.4139	11.9	16.4	-6.5	2	-46.5	7.8
2.41395	11.7	16.4	-6.7	2	-46.7	7.3
2.414	11.5	16.4	-6.9	2	-46.9	6.5
2.41405	11.5	16.4	-6.9	2	-46.9	6.7
2.4141	11.1	16.4	-7.3	2	-47.3	5.3
2.41415	11.4	16.4	-7	2	-47	6.4
2.4142	11.5	16.4	-6.9	2	-46.9	6.6
2.41425	11.8	16.4	-6.6	2	-46.6	7.6
2.4143	11.3	16.4	-7.1	2	-47.1	6
2.41435	11.8	16.4	-6.6	2	-46.6	7.6
2.4144	11.7	16.4	-6.7	2	-46.7	7.3
2.41445	11.2	16.4	-7.2	2	-47.2	5.8

2.4145	11.8	16.4	-6.6	2	-46.6	7.5
2.41455	11.8	16.4	-6.6	2	-46.6	7.4
2.4146	11.7	16.4	-6.7	2	-46.7	7.1
2.41465	11.4	16.4	-7	2	-47	6.3
2.4147	11.6	16.4	-6.8	2	-46.8	7
2.41475	11.6	16.4	-6.8	2	-46.8	6.8
2.4148	11.3	16.4	-7.1	2	-47.1	5.9
2.41485	11.1	16.4	-7.3	2	-47.3	5.3
2.4149	11.4	16.4	-7	2	-47	6.4
2.41495	11.3	16.4	-7.1	2	-47.1	6
2.415	11.8	16.4	-6.6	2	-46.6	7.4
2.41505	11.6	16.4	-6.8	2	-46.8	6.9
2.4151	11.4	16.4	-7	2	-47	6.4
2.41515	12.7	16.4	-5.7	2	-45.7	7.3
2.4152	12.3	16.4	-6.1	2	-46.1	6
2.41525	12.1	16.4	-6.3	2	-46.3	5.3
2.4153	12.2	16.4	-6.2	2	-46.2	5.7
2.41535	12.9	16.4	-5.5	2	-45.5	7.9
2.4154	12.7	16.4	-5.7	2	-45.7	7.3
2.41545	12.3	16.4	-6.1	2	-46.1	5.9
2.4155	12.4	16.4	-6	2	-46	6.4
2.41555	12.3	16.4	-6.1	2	-46.1	6.1
2.4156	12.8	16.4	-5.6	2	-45.6	7.4
2.41565	12.2	16.4	-6.2	2	-46.2	5.6
2.4157	12.7	16.4	-5.7	2	-45.7	7.3
2.41575	12.6	16.4	-5.8	2	-45.8	6.9
2.4158	12.1	16.4	-6.3	2	-46.3	5.5
2.41585	12.6	16.4	-5.8	2	-45.8	7
2.4159	12.6	16.4	-5.8	2	-45.8	6.9
2.41595	12.6	16.4	-5.8	2	-45.8	7
2.416	12.8	16.4	-5.6	2	-45.6	7.6
2.41605	12.2	16.4	-6.2	2	-46.2	5.8
2.4161	12	16.4	-6.4	2	-46.4	5
2.41615	12.7	16.4	-5.7	2	-45.7	7.3
2.4162	13.5	16.4	-4.9	2	-44.9	6.7
2.41625	13.1	16.4	-5.3	2	-45.3	5.4
2.4163	13.5	16.4	-4.9	2	-44.9	6.6
2.41635	13	16.4	-5.4	2	-45.4	5.2

2.4164	13.5	16.4	-4.9	2	-44.9	6.5
2.41645	13	16.4	-5.4	2	-45.4	5.2
2.4165	13.3	16.4	-5.1	2	-45.1	6.1
2.41655	13.2	16.4	-5.2	2	-45.2	5.7
2.4166	13.1	16.4	-5.3	2	-45.3	5.3
2.41665	13.5	16.4	-4.9	2	-44.9	6.5
2.4167	13.5	16.4	-4.9	2	-44.9	6.5
2.41675	13.5	16.4	-4.9	2	-44.9	6.6
2.4168	13.7	16.4	-4.7	2	-44.7	7.3
2.41685	13.5	16.4	-4.9	2	-44.9	6.7
2.4169	13.2	16.4	-5.2	2	-45.2	5.6
2.41695	14.1	16.4	-4.3	2	-44.3	5.5
2.417	14.8	16.4	-3.6	2	-43.6	7.4
2.41705	14.7	16.4	-3.7	2	-43.7	7.3
2.4171	14.2	16.4	-4.2	2	-44.2	5.7
2.41715	14.2	16.4	-4.2	2	-44.2	5.7
2.4172	14.9	16.4	-3.5	2	-43.5	7.9
2.41725	14	16.4	-4.4	2	-44.4	5.2
2.4173	15.7	16.4	-2.7	2	-42.7	7.2
2.41735	15.4	16.4	-3	2	-43	6.4
2.4174	15.3	16.4	-3.1	2	-43.1	6
2.41745	15.3	16.4	-3.1	2	-43.1	6.1
2.4175	15.7	16.4	-2.7	2	-42.7	7.3
2.41755	15.7	16.4	-2.7	2	-42.7	7.2
2.4176	15	16.4	-3.4	2	-43.4	5.1
2.41765	15.5	16.4	-2.9	2	-42.9	6.7
2.4177	15.1	16.4	-3.3	2	-43.3	5.4
2.41775	16.8	16.4	-1.6	2	-41.6	7.5
2.4178	16	16.4	-2.4	2	-42.4	5
2.41785	16	16.4	-2.4	2	-42.4	5.1
2.4179	16.3	16.4	-2.1	2	-42.1	6
2.41795	16.9	16.4	-1.5	2	-41.5	7.8
2.418	16.8	16.4	-1.6	2	-41.6	7.5
2.41805	16.1	16.4	-2.3	2	-42.3	5.5
2.4181	16.3	16.4	-2.1	2	-42.1	5.9
2.41815	16.5	16.4	-1.9	2	-41.9	6.5
2.4182	16.3	16.4	-2.1	2	-42.1	6.1
2.41825	16	16.4	-2.4	2	-42.4	5.1

2.4183	16.2	16.4	-2.2	2	-42.2	5.6
2.41835	16.8	16.4	-1.6	2	-41.6	7.4
2.4184	17.3	16.4	-1.1	2	-41.1	5.9
2.41845	17.9	16.4	-0.5	2	-40.5	7.8
2.4185	17.2	16.4	-1.2	2	-41.2	5.6
2.41855	17	16.4	-1.4	2	-41.4	5
2.4186	17.1	16.4	-1.3	2	-41.3	5.5
2.41865	17.6	16.4	-0.8	2	-40.8	6.9
2.4187	17.8	16.4	-0.6	2	-40.6	7.5
2.41875	17	16.4	-1.4	2	-41.4	5.1
2.4188	17.4	16.4	-1	2	-41	6.4
2.41885	18.2	16.4	-0.2	2	-40.2	5.8
2.4189	18.1	16.4	-0.3	2	-40.3	5.3
2.41895	18.5	16.4	0.1	2	-39.9	6.5
2.419	18.6	16.4	0.2	2	-39.8	6.9
2.41905	18.1	16.4	-0.3	2	-40.3	5.3
2.4191	18.8	16.4	0.4	2	-39.6	7.6
2.41915	18.5	16.4	0.1	2	-39.9	6.7
2.4192	18.7	16.4	0.3	2	-39.7	7.2
2.41925	18.9	16.4	0.5	2	-39.5	7.7
2.4193	18.4	16.4	0	2	-40	6.3
2.41935	18.7	16.4	0.3	2	-39.7	7.2
2.4194	18.2	16.4	-0.2	2	-40.2	5.8
2.41945	18.6	16.4	0.2	2	-39.8	7
2.4195	18.4	16.4	0	2	-40	6.4
2.41955	18.2	16.4	-0.2	2	-40.2	5.6
2.4196	18.1	16.4	-0.3	2	-40.3	5.3
2.41965	18.7	16.4	0.3	2	-39.7	7.1
2.4197	18.8	16.4	0.4	2	-39.6	7.5
2.41975	18.5	16.4	0.1	2	-39.9	6.5
2.4198	18.7	16.4	0.3	2	-39.7	7.1
2.41985	18.5	16.4	0.1	2	-39.9	6.6
2.4199	18.7	16.4	0.3	2	-39.7	7.1
2.41995	18.5	16.4	0.1	2	-39.9	6.6
2.42	18.3	16.4	-0.1	2	-40.1	6.1
2.42005	18.5	16.4	0.1	2	-39.9	6.5
2.4201	18.2	16.4	-0.2	2	-40.2	5.8
2.42015	18.7	16.4	0.3	2	-39.7	7.2

2.4202	18.1	16.4	-0.3	2	-40.3	5.4
2.42025	18.4	16.4	0	2	-40	6.2
2.4203	18.8	16.4	0.4	2	-39.6	7.5
2.42035	18.8	16.4	0.4	2	-39.6	7.6
2.4204	18.7	16.4	0.3	2	-39.7	7.1
2.42045	18.2	16.4	-0.2	2	-40.2	5.6
2.4205	18	16.4	-0.4	2	-40.4	5.2
Average Processing Gain(dB)= **14.3** dB						
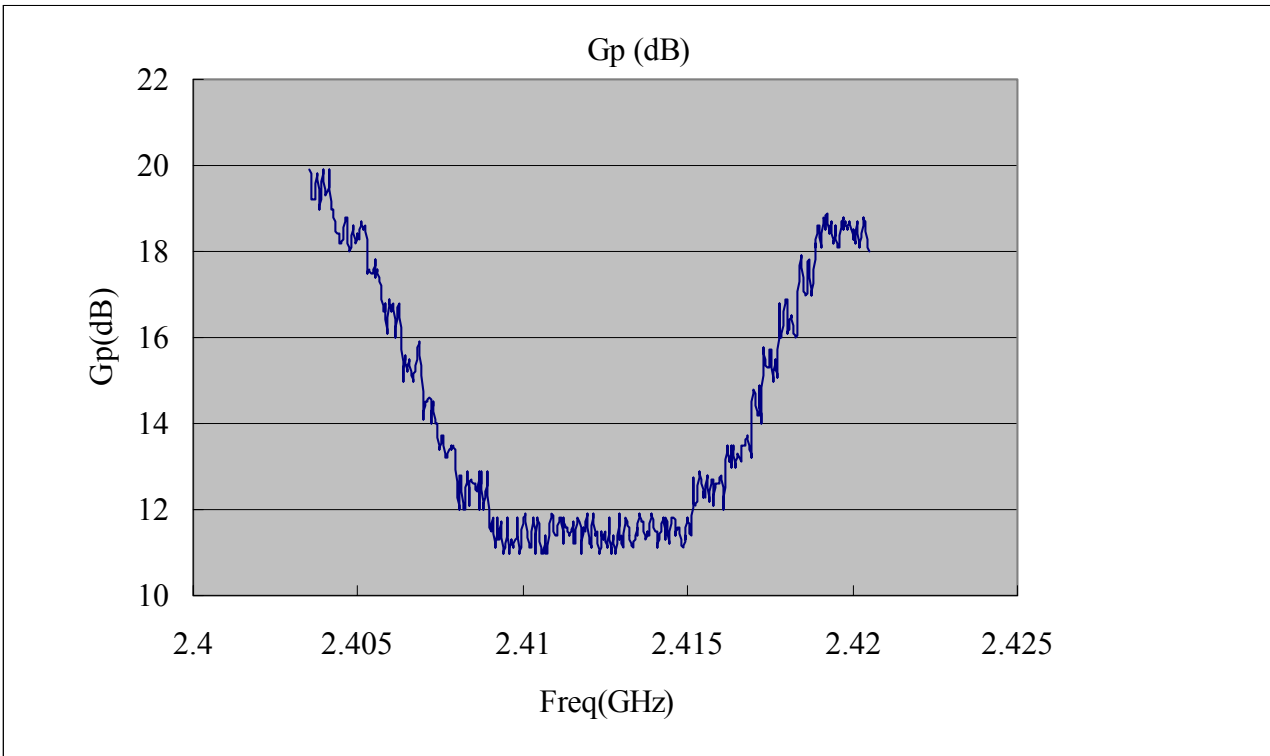
Product : WLAN MiniPCI Type III
Test Item : Processing Gain Data
Test Site : No.1 OATS
Test Mode : Figure Channel 6:Normal Operation

Freq (GHz)	Gp (dB)	(S/N)o (dB)	Mj=J/S (dB)	Lsys (dB)	Jammer (dBm)	FER
2.4285	19.6	16.4	1.2	2	-38.8	6.8
2.42855	19.7	16.4	1.3	2	-38.7	7.1
2.4286	19.7	16.4	1.3	2	-38.7	7.1
2.42865	19.4	16.4	1	2	-39	6.2
2.4287	19.4	16.4	1	2	-39	6.2
2.42875	19.9	16.4	1.5	2	-38.5	7.9
2.4288	19.7	16.4	1.3	2	-38.7	7.2
2.42885	19.5	16.4	1.1	2	-38.9	6.6
2.4289	19.4	16.4	1	2	-39	6.3
2.42895	19.8	16.4	1.4	2	-38.6	7.6
2.429	19.3	16.4	0.9	2	-39.1	5.9
2.42905	19.7	16.4	1.3	2	-38.7	7.2
2.4291	19.9	16.4	1.5	2	-38.5	7.9
2.42915	19.1	16.4	0.7	2	-39.3	5.5
2.4292	19.4	16.4	1	2	-39	6.3
2.42925	19.7	16.4	1.3	2	-38.7	7.3
2.4293	18.6	16.4	0.2	2	-39.8	6.9
2.42935	18.2	16.4	-0.2	2	-40.2	5.7
2.4294	18.8	16.4	0.4	2	-39.6	7.4
2.42945	18.3	16.4	-0.1	2	-40.1	6.1
2.4295	18.6	16.4	0.2	2	-39.8	6.9
2.42955	18.9	16.4	0.5	2	-39.5	7.8
2.4296	18.1	16.4	-0.3	2	-40.3	5.5
2.42965	18	16.4	-0.4	2	-40.4	5
2.4297	18.8	16.4	0.4	2	-39.6	7.6
2.42975	18.1	16.4	-0.3	2	-40.3	5.5
2.4298	18.9	16.4	0.5	2	-39.5	7.8
2.42985	18.9	16.4	0.5	2	-39.5	7.7
2.4299	18.8	16.4	0.4	2	-39.6	7.5
2.42995	18.9	16.4	0.5	2	-39.5	7.9
2.43	18.8	16.4	0.4	2	-39.6	7.4

2.43005	18.6	16.4	0.2	2	-39.8	6.8
2.4301	18	16.4	-0.4	2	-40.4	5.1
2.43015	18.4	16.4	0	2	-40	6.3
2.4302	18.9	16.4	0.5	2	-39.5	7.8
2.43025	17.3	16.4	-1.1	2	-41.1	5.9
2.4303	17.5	16.4	-0.9	2	-40.9	6.6
2.43035	17.9	16.4	-0.5	2	-40.5	7.9
2.4304	17.4	16.4	-1	2	-41	6.4
2.43045	17.3	16.4	-1.1	2	-41.1	6
2.4305	17.6	16.4	-0.8	2	-40.8	7
2.43055	17.8	16.4	-0.6	2	-40.6	7.5
2.4306	17.4	16.4	-1	2	-41	6.2
2.43065	17.8	16.4	-0.6	2	-40.6	7.6
2.4307	17.1	16.4	-1.3	2	-41.3	5.4
2.43075	16.7	16.4	-1.7	2	-41.7	7.1
2.4308	16.9	16.4	-1.5	2	-41.5	7.8
2.43085	16.1	16.4	-2.3	2	-42.3	5.3
2.4309	16.2	16.4	-2.2	2	-42.2	5.7
2.43095	16.4	16.4	-2	2	-42	6.4
2.431	16.4	16.4	-2	2	-42	6.4
2.43105	16.3	16.4	-2.1	2	-42.1	6
2.4311	16.6	16.4	-1.8	2	-41.8	7
2.43115	16.4	16.4	-2	2	-42	6.4
2.4312	16.3	16.4	-2.1	2	-42.1	6
2.43125	16.2	16.4	-2.2	2	-42.2	5.6
2.4313	16.7	16.4	-1.7	2	-41.7	7.2
2.43135	15.9	16.4	-2.5	2	-42.5	7.8
2.4314	15.6	16.4	-2.8	2	-42.8	7
2.43145	15.2	16.4	-3.2	2	-43.2	5.6
2.4315	15.4	16.4	-3	2	-43	6.3
2.43155	15.6	16.4	-2.8	2	-42.8	7
2.4316	15.6	16.4	-2.8	2	-42.8	6.8
2.43165	15.5	16.4	-2.9	2	-42.9	6.7
2.4317	15.8	16.4	-2.6	2	-42.6	7.6
2.43175	15.7	16.4	-2.7	2	-42.7	7.1
2.4318	15.9	16.4	-2.5	2	-42.5	7.9
2.43185	15.2	16.4	-3.2	2	-43.2	5.6
2.4319	15.4	16.4	-3	2	-43	6.4

2.43195	14.5	16.4	-3.9	2	-43.9	6.6
2.432	14.7	16.4	-3.7	2	-43.7	7.3
2.43205	14.9	16.4	-3.5	2	-43.5	7.9
2.4321	14.9	16.4	-3.5	2	-43.5	7.7
2.43215	14.2	16.4	-4.2	2	-44.2	5.7
2.4322	14	16.4	-4.4	2	-44.4	5.1
2.43225	14.3	16.4	-4.1	2	-44.1	6.1
2.4323	14.4	16.4	-4	2	-44	6.2
2.43235	14.3	16.4	-4.1	2	-44.1	6
2.4324	14.3	16.4	-4.1	2	-44.1	6.1
2.43245	13.6	16.4	-4.8	2	-44.8	6.8
2.4325	13.6	16.4	-4.8	2	-44.8	6.8
2.43255	13.4	16.4	-5	2	-45	6.2
2.4326	13.4	16.4	-5	2	-45	6.2
2.43265	13	16.4	-5.4	2	-45.4	5.1
2.4327	13.1	16.4	-5.3	2	-45.3	5.3
2.43275	13.5	16.4	-4.9	2	-44.9	6.5
2.4328	13.1	16.4	-5.3	2	-45.3	5.3
2.43285	13.5	16.4	-4.9	2	-44.9	6.7
2.4329	13.3	16.4	-5.1	2	-45.1	5.9
2.43295	13.1	16.4	-5.3	2	-45.3	5.4
2.433	12.4	16.4	-6	2	-46	6.4
2.43305	12.8	16.4	-5.6	2	-45.6	7.5
2.4331	12.8	16.4	-5.6	2	-45.6	7.4
2.43315	12.5	16.4	-5.9	2	-45.9	6.5
2.4332	12.7	16.4	-5.7	2	-45.7	7.1
2.43325	12.1	16.4	-6.3	2	-46.3	5.5
2.4333	12.6	16.4	-5.8	2	-45.8	7
2.43335	12.9	16.4	-5.5	2	-45.5	7.8
2.4334	12.6	16.4	-5.8	2	-45.8	6.8
2.43345	12	16.4	-6.4	2	-46.4	5.2
2.4335	12.5	16.4	-5.9	2	-45.9	6.5
2.43355	12	16.4	-6.4	2	-46.4	5
2.4336	12.1	16.4	-6.3	2	-46.3	5.5
2.43365	12	16.4	-6.4	2	-46.4	5
2.4337	12.1	16.4	-6.3	2	-46.3	5.4
2.43375	12.2	16.4	-6.2	2	-46.2	5.7
2.4338	12.6	16.4	-5.8	2	-45.8	7

2.43385	12.2	16.4	-6.2	2	-46.2	5.8
2.4339	12.9	16.4	-5.5	2	-45.5	7.7
2.43395	12.7	16.4	-5.7	2	-45.7	7.1
2.434	11.6	16.4	-6.8	2	-46.8	6.8
2.43405	11.6	16.4	-6.8	2	-46.8	6.9
2.4341	11.1	16.4	-7.3	2	-47.3	5.4
2.43415	11.1	16.4	-7.3	2	-47.3	5.4
2.4342	11.3	16.4	-7.1	2	-47.1	6
2.43425	11.9	16.4	-6.5	2	-46.5	7.8
2.4343	11.8	16.4	-6.6	2	-46.6	7.4
2.43435	11.1	16.4	-7.3	2	-47.3	5.5
2.4344	11	16.4	-7.4	2	-47.4	5.1
2.43445	11.2	16.4	-7.2	2	-47.2	5.6
2.4345	11.9	16.4	-6.5	2	-46.5	7.9
2.43455	11.2	16.4	-7.2	2	-47.2	5.8
2.4346	11.8	16.4	-6.6	2	-46.6	7.4
2.43465	11.4	16.4	-7	2	-47	6.2
2.4347	11.7	16.4	-6.7	2	-46.7	7.1
2.43475	11.8	16.4	-6.6	2	-46.6	7.4
2.4348	11.4	16.4	-7	2	-47	6.4
2.43485	11.5	16.4	-6.9	2	-46.9	6.6
2.4349	11.4	16.4	-7	2	-47	6.2
2.43495	11.6	16.4	-6.8	2	-46.8	6.8
2.435	11	16.4	-7.4	2	-47.4	5.1
2.43505	11.8	16.4	-6.6	2	-46.6	7.5
2.4351	11.6	16.4	-6.8	2	-46.8	6.9
2.43515	11.9	16.4	-6.5	2	-46.5	7.8
2.4352	11.5	16.4	-6.9	2	-46.9	6.6
2.43525	11.5	16.4	-6.9	2	-46.9	6.5
2.4353	11.8	16.4	-6.6	2	-46.6	7.6
2.43535	11	16.4	-7.4	2	-47.4	5.2
2.4354	11.7	16.4	-6.7	2	-46.7	7.2
2.43545	11.5	16.4	-6.9	2	-46.9	6.6
2.4355	11.5	16.4	-6.9	2	-46.9	6.6
2.43555	11.6	16.4	-6.8	2	-46.8	6.9
2.4356	11	16.4	-7.4	2	-47.4	5
2.43565	11.3	16.4	-7.1	2	-47.1	5.9
2.4357	11.5	16.4	-6.9	2	-46.9	6.7

2.43575	11.8	16.4	-6.6	2	-46.6	7.5
2.4358	11.7	16.4	-6.7	2	-46.7	7.2
2.43585	11.7	16.4	-6.7	2	-46.7	7.3
2.4359	11.6	16.4	-6.8	2	-46.8	6.8
2.43595	11.8	16.4	-6.6	2	-46.6	7.6
2.436	11.2	16.4	-7.2	2	-47.2	5.7
2.43605	11.1	16.4	-7.3	2	-47.3	5.5
2.4361	11.2	16.4	-7.2	2	-47.2	5.8
2.43615	11.9	16.4	-6.5	2	-46.5	7.8
2.4362	11.2	16.4	-7.2	2	-47.2	5.6
2.43625	11.7	16.4	-6.7	2	-46.7	7.2
2.4363	11.4	16.4	-7	2	-47	6.4
2.43635	11.7	16.4	-6.7	2	-46.7	7.2
2.4364	11.8	16.4	-6.6	2	-46.6	7.6
2.43645	11.5	16.4	-6.9	2	-46.9	6.6
2.4365	11.2	16.4	-7.2	2	-47.2	5.7
2.43655	11.2	16.4	-7.2	2	-47.2	5.7
2.4366	11.4	16.4	-7	2	-47	6.2
2.43665	11.8	16.4	-6.6	2	-46.6	7.6
2.4367	11.3	16.4	-7.1	2	-47.1	5.9
2.43675	11.6	16.4	-6.8	2	-46.8	6.9
2.4368	11.2	16.4	-7.2	2	-47.2	5.7
2.43685	11.4	16.4	-7	2	-47	6.4
2.4369	11.9	16.4	-6.5	2	-46.5	7.9
2.43695	11.9	16.4	-6.5	2	-46.5	7.8
2.437	11.6	16.4	-6.8	2	-46.8	7
2.43705	11.9	16.4	-6.5	2	-46.5	7.7
2.4371	11.9	16.4	-6.5	2	-46.5	7.8
2.43715	11.3	16.4	-7.1	2	-47.1	6.1
2.4372	11.7	16.4	-6.7	2	-46.7	7.3
2.43725	11.6	16.4	-6.8	2	-46.8	7
2.4373	11.7	16.4	-6.7	2	-46.7	7.2
2.43735	11.7	16.4	-6.7	2	-46.7	7.2
2.4374	11.2	16.4	-7.2	2	-47.2	5.8
2.43745	11.5	16.4	-6.9	2	-46.9	6.6
2.4375	11.5	16.4	-6.9	2	-46.9	6.6
2.43755	11	16.4	-7.4	2	-47.4	5.2
2.4376	11.3	16.4	-7.1	2	-47.1	5.9

2.43765	11.1	16.4	-7.3	2	-47.3	5.3
2.4377	11.7	16.4	-6.7	2	-46.7	7.3
2.43775	11.2	16.4	-7.2	2	-47.2	5.7
2.4378	11.3	16.4	-7.1	2	-47.1	5.9
2.43785	11.7	16.4	-6.7	2	-46.7	7.2
2.4379	11.9	16.4	-6.5	2	-46.5	7.7
2.43795	11.6	16.4	-6.8	2	-46.8	6.9
2.438	11.1	16.4	-7.3	2	-47.3	5.4
2.43805	11.6	16.4	-6.8	2	-46.8	6.9
2.4381	11.5	16.4	-6.9	2	-46.9	6.6
2.43815	11.5	16.4	-6.9	2	-46.9	6.6
2.4382	11.5	16.4	-6.9	2	-46.9	6.6
2.43825	11	16.4	-7.4	2	-47.4	5
2.4383	11.6	16.4	-6.8	2	-46.8	6.8
2.43835	11.4	16.4	-7	2	-47	6.4
2.4384	11.6	16.4	-6.8	2	-46.8	6.9
2.43845	11.6	16.4	-6.8	2	-46.8	6.8
2.4385	11.5	16.4	-6.9	2	-46.9	6.5
2.43855	11.6	16.4	-6.8	2	-46.8	6.8
2.4386	11.9	16.4	-6.5	2	-46.5	7.7
2.43865	11.8	16.4	-6.6	2	-46.6	7.6
2.4387	11.8	16.4	-6.6	2	-46.6	7.6
2.43875	11.8	16.4	-6.6	2	-46.6	7.6
2.4388	11	16.4	-7.4	2	-47.4	5
2.43885	11.9	16.4	-6.5	2	-46.5	7.9
2.4389	11.7	16.4	-6.7	2	-46.7	7.2
2.43895	11	16.4	-7.4	2	-47.4	5
2.439	11.1	16.4	-7.3	2	-47.3	5.4
2.43905	11.8	16.4	-6.6	2	-46.6	7.6
2.4391	11.8	16.4	-6.6	2	-46.6	7.4
2.43915	11.8	16.4	-6.6	2	-46.6	7.5
2.4392	11.8	16.4	-6.6	2	-46.6	7.6
2.43925	11.1	16.4	-7.3	2	-47.3	5.4
2.4393	11	16.4	-7.4	2	-47.4	5.1
2.43935	11	16.4	-7.4	2	-47.4	5
2.4394	11.9	16.4	-6.5	2	-46.5	7.7
2.43945	11.2	16.4	-7.2	2	-47.2	5.8
2.4395	11.9	16.4	-6.5	2	-46.5	7.7

2.43955	11.1	16.4	-7.3	2	-47.3	5.5
2.4396	11.9	16.4	-6.5	2	-46.5	7.9
2.43965	11.3	16.4	-7.1	2	-47.1	6.1
2.4397	11.1	16.4	-7.3	2	-47.3	5.3
2.43975	11.6	16.4	-6.8	2	-46.8	7
2.4398	11.1	16.4	-7.3	2	-47.3	5.4
2.43985	11.9	16.4	-6.5	2	-46.5	7.9
2.4399	11.3	16.4	-7.1	2	-47.1	6
2.43995	11.3	16.4	-7.1	2	-47.1	5.9
2.44	11.7	16.4	-6.7	2	-46.7	7.2
2.44005	11	16.4	-7.4	2	-47.4	5.1
2.4401	11.2	16.4	-7.2	2	-47.2	5.7
2.44015	12.9	16.4	-5.5	2	-45.5	7.7
2.4402	12.7	16.4	-5.7	2	-45.7	7.3
2.44025	12.1	16.4	-6.3	2	-46.3	5.5
2.4403	12.7	16.4	-5.7	2	-45.7	7.3
2.44035	12.1	16.4	-6.3	2	-46.3	5.3
2.4404	12.4	16.4	-6	2	-46	6.2
2.44045	12.2	16.4	-6.2	2	-46.2	5.7
2.4405	12.1	16.4	-6.3	2	-46.3	5.5
2.44055	12.8	16.4	-5.6	2	-45.6	7.6
2.4406	12	16.4	-6.4	2	-46.4	5.1
2.44065	12	16.4	-6.4	2	-46.4	5
2.4407	12.2	16.4	-6.2	2	-46.2	5.8
2.44075	12.1	16.4	-6.3	2	-46.3	5.4
2.4408	12	16.4	-6.4	2	-46.4	5
2.44085	12	16.4	-6.4	2	-46.4	5.2
2.4409	12.8	16.4	-5.6	2	-45.6	7.4
2.44095	12.8	16.4	-5.6	2	-45.6	7.6
2.441	12.4	16.4	-6	2	-46	6.3
2.44105	12.5	16.4	-5.9	2	-45.9	6.5
2.4411	12.8	16.4	-5.6	2	-45.6	7.4
2.44115	12.4	16.4	-6	2	-46	6.3
2.4412	13.4	16.4	-5	2	-45	6.3
2.44125	13.8	16.4	-4.6	2	-44.6	7.6
2.4413	13	16.4	-5.4	2	-45.4	5.2
2.44135	13.3	16.4	-5.1	2	-45.1	6.1
2.4414	13.4	16.4	-5	2	-45	6.3

2.44145	13.2	16.4	-5.2	2	-45.2	5.8
2.4415	13.3	16.4	-5.1	2	-45.1	6.1
2.44155	13	16.4	-5.4	2	-45.4	5.2
2.4416	13.1	16.4	-5.3	2	-45.3	5.3
2.44165	13.3	16.4	-5.1	2	-45.1	6
2.4417	13.1	16.4	-5.3	2	-45.3	5.4
2.44175	13.8	16.4	-4.6	2	-44.6	7.4
2.4418	13.2	16.4	-5.2	2	-45.2	5.6
2.44185	13.5	16.4	-4.9	2	-44.9	6.6
2.4419	13.2	16.4	-5.2	2	-45.2	5.8
2.44195	14.4	16.4	-4	2	-44	6.3
2.442	14.7	16.4	-3.7	2	-43.7	7.2
2.44205	14.6	16.4	-3.8	2	-43.8	7
2.4421	14.8	16.4	-3.6	2	-43.6	7.4
2.44215	14	16.4	-4.4	2	-44.4	5.1
2.4422	14.1	16.4	-4.3	2	-44.3	5.3
2.44225	14.5	16.4	-3.9	2	-43.9	6.7
2.4423	15	16.4	-3.4	2	-43.4	5.1
2.44235	15.2	16.4	-3.2	2	-43.2	5.7
2.4424	15.9	16.4	-2.5	2	-42.5	7.9
2.44245	15	16.4	-3.4	2	-43.4	5
2.4425	15.9	16.4	-2.5	2	-42.5	7.9
2.44255	15.6	16.4	-2.8	2	-42.8	7
2.4426	15.4	16.4	-3	2	-43	6.4
2.44265	15.7	16.4	-2.7	2	-42.7	7.1
2.4427	15.1	16.4	-3.3	2	-43.3	5.3
2.44275	16.9	16.4	-1.5	2	-41.5	7.9
2.4428	16.2	16.4	-2.2	2	-42.2	5.6
2.44285	16.9	16.4	-1.5	2	-41.5	7.9
2.4429	16.7	16.4	-1.7	2	-41.7	7.1
2.44295	16	16.4	-2.4	2	-42.4	5.2
2.443	16	16.4	-2.4	2	-42.4	5.1
2.44305	16.3	16.4	-2.1	2	-42.1	6.1
2.4431	16.6	16.4	-1.8	2	-41.8	6.8
2.44315	16.2	16.4	-2.2	2	-42.2	5.7
2.4432	16.1	16.4	-2.3	2	-42.3	5.5
2.44325	16.2	16.4	-2.2	2	-42.2	5.7
2.4433	16.5	16.4	-1.9	2	-41.9	6.7

2.44335	16.4	16.4	-2	2	-42	6.3
2.4434	17.9	16.4	-0.5	2	-40.5	7.9
2.44345	17.4	16.4	-1	2	-41	6.2
2.4435	17.9	16.4	-0.5	2	-40.5	7.8
2.44355	17.8	16.4	-0.6	2	-40.6	7.6
2.4436	17.4	16.4	-1	2	-41	6.4
2.44365	17.4	16.4	-1	2	-41	6.2
2.4437	17.9	16.4	-0.5	2	-40.5	7.8
2.44375	17.6	16.4	-0.8	2	-40.8	7
2.4438	17.8	16.4	-0.6	2	-40.6	7.5
2.44385	18.4	16.4	0	2	-40	6.3
2.4439	18.2	16.4	-0.2	2	-40.2	5.7
2.44395	18.6	16.4	0.2	2	-39.8	6.9
2.444	18.5	16.4	0.1	2	-39.9	6.7
2.44405	18.1	16.4	-0.3	2	-40.3	5.3
2.4441	18.4	16.4	0	2	-40	6.2
2.44415	18.4	16.4	0	2	-40	6.2
2.4442	18.7	16.4	0.3	2	-39.7	7.2
2.44425	18.3	16.4	-0.1	2	-40.1	6.1
2.4443	18.4	16.4	0	2	-40	6.2
2.44435	18.7	16.4	0.3	2	-39.7	7.1
2.4444	18.6	16.4	0.2	2	-39.8	6.9
2.44445	18.2	16.4	-0.2	2	-40.2	5.6
2.4445	18.2	16.4	-0.2	2	-40.2	5.8
2.44455	18.9	16.4	0.5	2	-39.5	7.7
2.4446	18.4	16.4	0	2	-40	6.3
2.44465	18	16.4	-0.4	2	-40.4	5
2.4447	18.8	16.4	0.4	2	-39.6	7.6
2.44475	18.7	16.4	0.3	2	-39.7	7.3
2.4448	18.2	16.4	-0.2	2	-40.2	5.8
2.44485	18.1	16.4	-0.3	2	-40.3	5.5
2.4449	18.8	16.4	0.4	2	-39.6	7.4
2.44495	18.2	16.4	-0.2	2	-40.2	5.7
2.445	18.4	16.4	0	2	-40	6.3
2.44505	18.6	16.4	0.2	2	-39.8	6.9
2.4451	18.5	16.4	0.1	2	-39.9	6.6
2.44515	18.3	16.4	-0.1	2	-40.1	6.1
2.4452	18.8	16.4	0.4	2	-39.6	7.4

2.44525	18.3	16.4	-0.1	2	-40.1	6
2.4453	18.9	16.4	0.5	2	-39.5	7.7
2.44535	18.5	16.4	0.1	2	-39.9	6.5
2.4454	18.2	16.4	-0.2	2	-40.2	5.8
2.44545	18.4	16.4	0	2	-40	6.4
2.4455	18	16.4	-0.4	2	-40.4	5.2
Average Processing Gain=14.3dB						
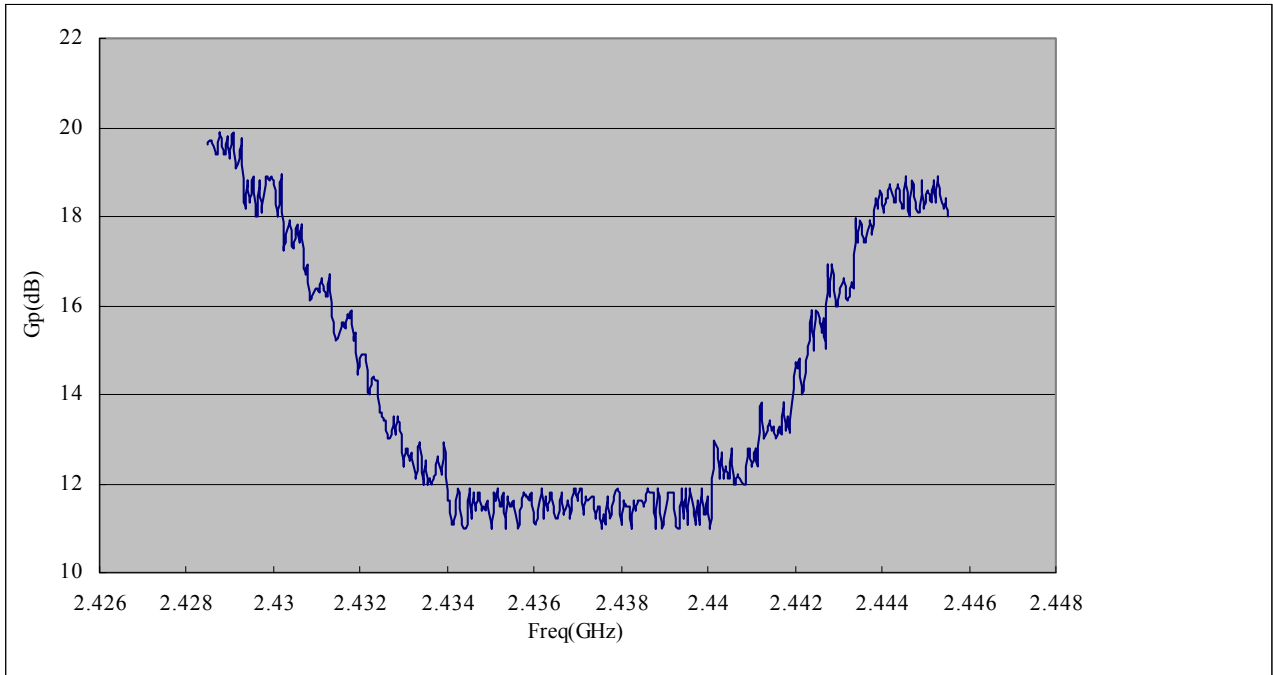
Product   :   WLAN MiniPCI Type III
Test Item   :   Processing Gain Data
Test Site   :   No.1 OATS
Test Mode   :   Figure Channel 11:Normal Operation

Freq	Gp	(S/N)o	Mj=J/S	Lsys	Jammer	FER
(GHz)	(dB)	(dB)	(dB)	(dB)	(dBm)	
2.4535	19.4	16.4	1	2	-39	6.4
2.45355	19.5	16.4	1.1	2	-38.9	6.7
2.4536	19	16.4	0.6	2	-39.4	5
2.45365	19.1	16.4	0.7	2	-39.3	5.3
2.4537	19.7	16.4	1.3	2	-38.7	7.1
2.45375	19.2	16.4	0.8	2	-39.2	5.7
2.4538	19.2	16.4	0.8	2	-39.2	5.8
2.45385	19.6	16.4	1.2	2	-38.8	7
2.4539	19.6	16.4	1.2	2	-38.8	7
2.45395	19	16.4	0.6	2	-39.4	5.1
2.454	19.5	16.4	1.1	2	-38.9	6.5
2.45405	19.9	16.4	1.5	2	-38.5	7.8
2.4541	19.8	16.4	1.4	2	-38.6	7.6
2.45415	19.3	16.4	0.9	2	-39.1	6.1
2.4542	19	16.4	0.6	2	-39.4	5
2.45425	19.9	16.4	1.5	2	-38.5	7.9
2.4543	18	16.4	-0.4	2	-40.4	5.2
2.45435	18.9	16.4	0.5	2	-39.5	7.9
2.4544	18.8	16.4	0.4	2	-39.6	7.6
2.45445	18	16.4	-0.4	2	-40.4	5.2
2.4545	18.4	16.4	0	2	-40	6.4
2.45455	18.7	16.4	0.3	2	-39.7	7.2
2.4546	18.8	16.4	0.4	2	-39.6	7.6
2.45465	18.2	16.4	-0.2	2	-40.2	5.6
2.4547	18.9	16.4	0.5	2	-39.5	7.9
2.45475	18.1	16.4	-0.3	2	-40.3	5.4
2.4548	18	16.4	-0.4	2	-40.4	5
2.45485	18.6	16.4	0.2	2	-39.8	6.9
2.4549	18.6	16.4	0.2	2	-39.8	6.9
2.45495	18.2	16.4	-0.2	2	-40.2	5.7
2.455	18.7	16.4	0.3	2	-39.7	7.3

2.45505	18.6	16.4	0.2	2	-39.8	6.8
2.4551	18.6	16.4	0.2	2	-39.8	6.8
2.45515	18.8	16.4	0.4	2	-39.6	7.5
2.4552	18.9	16.4	0.5	2	-39.5	7.9
2.45525	17.2	16.4	-1.2	2	-41.2	5.8
2.4553	17.9	16.4	-0.5	2	-40.5	7.7
2.45535	17.6	16.4	-0.8	2	-40.8	6.9
2.4554	17.4	16.4	-1	2	-41	6.2
2.45545	17.6	16.4	-0.8	2	-40.8	6.9
2.4555	17.5	16.4	-0.9	2	-40.9	6.6
2.45555	17.6	16.4	-0.8	2	-40.8	6.9
2.4556	17.3	16.4	-1.1	2	-41.1	5.9
2.45565	17	16.4	-1.4	2	-41.4	5.1
2.4557	17	16.4	-1.4	2	-41.4	5.1
2.45575	16.1	16.4	-2.3	2	-42.3	5.5
2.4558	16.4	16.4	-2	2	-42	6.2
2.45585	16.7	16.4	-1.7	2	-41.7	7.3
2.4559	16.8	16.4	-1.6	2	-41.6	7.5
2.45595	16	16.4	-2.4	2	-42.4	5.2
2.456	16.5	16.4	-1.9	2	-41.9	6.6
2.45605	16.2	16.4	-2.2	2	-42.2	5.8
2.4561	16.7	16.4	-1.7	2	-41.7	7.1
2.45615	16.7	16.4	-1.7	2	-41.7	7.3
2.4562	16.3	16.4	-2.1	2	-42.1	6
2.45625	16.1	16.4	-2.3	2	-42.3	5.3
2.4563	16.9	16.4	-1.5	2	-41.5	7.8
2.45635	15.2	16.4	-3.2	2	-43.2	5.8
2.4564	15.6	16.4	-2.8	2	-42.8	6.8
2.45645	15.8	16.4	-2.6	2	-42.6	7.5
2.4565	15.3	16.4	-3.1	2	-43.1	5.9
2.45655	15.5	16.4	-2.9	2	-42.9	6.7
2.4566	15.6	16.4	-2.8	2	-42.8	6.8
2.45665	15.5	16.4	-2.9	2	-42.9	6.5
2.4567	15.5	16.4	-2.9	2	-42.9	6.5
2.45675	15.3	16.4	-3.1	2	-43.1	6.1
2.4568	15.1	16.4	-3.3	2	-43.3	5.3
2.45685	15.9	16.4	-2.5	2	-42.5	7.7
2.4569	15.5	16.4	-2.9	2	-42.9	6.5

2.45695	14.1	16.4	-4.3	2	-44.3	5.4
2.457	14.4	16.4	-4	2	-44	6.2
2.45705	14.7	16.4	-3.7	2	-43.7	7.3
2.4571	14.8	16.4	-3.6	2	-43.6	7.4
2.45715	14.1	16.4	-4.3	2	-44.3	5.4
2.4572	14.1	16.4	-4.3	2	-44.3	5.3
2.45725	14.2	16.4	-4.2	2	-44.2	5.6
2.4573	14.5	16.4	-3.9	2	-43.9	6.6
2.45735	14	16.4	-4.4	2	-44.4	5.1
2.4574	14.8	16.4	-3.6	2	-43.6	7.4
2.45745	13.8	16.4	-4.6	2	-44.6	7.5
2.4575	13	16.4	-5.4	2	-45.4	5.2
2.45755	13.7	16.4	-4.7	2	-44.7	7.1
2.4576	13.3	16.4	-5.1	2	-45.1	6
2.45765	13.2	16.4	-5.2	2	-45.2	5.7
2.4577	13.7	16.4	-4.7	2	-44.7	7.2
2.45775	13.5	16.4	-4.9	2	-44.9	6.5
2.4578	13.5	16.4	-4.9	2	-44.9	6.6
2.45785	13.1	16.4	-5.3	2	-45.3	5.3
2.4579	13.2	16.4	-5.2	2	-45.2	5.7
2.45795	13.2	16.4	-5.2	2	-45.2	5.8
2.458	12.6	16.4	-5.8	2	-45.8	6.8
2.45805	12.1	16.4	-6.3	2	-46.3	5.4
2.4581	12.4	16.4	-6	2	-46	6.2
2.45815	12.1	16.4	-6.3	2	-46.3	5.4
2.4582	12.6	16.4	-5.8	2	-45.8	6.9
2.45825	12.4	16.4	-6	2	-46	6.2
2.4583	12	16.4	-6.4	2	-46.4	5.1
2.45835	12.6	16.4	-5.8	2	-45.8	6.8
2.4584	12.7	16.4	-5.7	2	-45.7	7.1
2.45845	12.6	16.4	-5.8	2	-45.8	6.9
2.4585	12.6	16.4	-5.8	2	-45.8	6.9
2.45855	12.1	16.4	-6.3	2	-46.3	5.4
2.4586	12.6	16.4	-5.8	2	-45.8	6.9
2.45865	12.7	16.4	-5.7	2	-45.7	7.2
2.4587	12.1	16.4	-6.3	2	-46.3	5.3
2.45875	12.6	16.4	-5.8	2	-45.8	6.9
2.4588	12.9	16.4	-5.5	2	-45.5	7.7

2.45885	12.3	16.4	-6.1	2	-46.1	6.1
2.4589	12.3	16.4	-6.1	2	-46.1	6
2.45895	12.9	16.4	-5.5	2	-45.5	7.8
2.459	11.5	16.4	-6.9	2	-46.9	6.6
2.45905	11.4	16.4	-7	2	-47	6.2
2.4591	11.1	16.4	-7.3	2	-47.3	5.3
2.45915	11.7	16.4	-6.7	2	-46.7	7.3
2.4592	11.8	16.4	-6.6	2	-46.6	7.4
2.45925	11.4	16.4	-7	2	-47	6.4
2.4593	11.3	16.4	-7.1	2	-47.1	6
2.45935	11.8	16.4	-6.6	2	-46.6	7.5
2.4594	11.9	16.4	-6.5	2	-46.5	7.9
2.45945	11	16.4	-7.4	2	-47.4	5.2
2.4595	11.5	16.4	-6.9	2	-46.9	6.7
2.45955	11.1	16.4	-7.3	2	-47.3	5.4
2.4596	11.9	16.4	-6.5	2	-46.5	7.9
2.45965	11.2	16.4	-7.2	2	-47.2	5.6
2.4597	11.9	16.4	-6.5	2	-46.5	7.7
2.45975	11.9	16.4	-6.5	2	-46.5	7.7
2.4598	11.1	16.4	-7.3	2	-47.3	5.5
2.45985	11.4	16.4	-7	2	-47	6.3
2.4599	11.1	16.4	-7.3	2	-47.3	5.3
2.45995	11.5	16.4	-6.9	2	-46.9	6.6
2.46	11.7	16.4	-6.7	2	-46.7	7.1
2.46005	11.5	16.4	-6.9	2	-46.9	6.7
2.4601	11.9	16.4	-6.5	2	-46.5	7.9
2.46015	11.4	16.4	-7	2	-47	6.4
2.4602	11.4	16.4	-7	2	-47	6.2
2.46025	11	16.4	-7.4	2	-47.4	5.2
2.4603	11.1	16.4	-7.3	2	-47.3	5.4
2.46035	11.3	16.4	-7.1	2	-47.1	5.9
2.4604	11.1	16.4	-7.3	2	-47.3	5.5
2.46045	11.9	16.4	-6.5	2	-46.5	7.7
2.4605	11.8	16.4	-6.6	2	-46.6	7.4
2.46055	11.1	16.4	-7.3	2	-47.3	5.4
2.4606	11	16.4	-7.4	2	-47.4	5
2.46065	11.1	16.4	-7.3	2	-47.3	5.4
2.4607	11.7	16.4	-6.7	2	-46.7	7.2

2.46075	11.8	16.4	-6.6	2	-46.6	7.5
2.4608	11.5	16.4	-6.9	2	-46.9	6.5
2.46085	11.9	16.4	-6.5	2	-46.5	7.9
2.4609	11.2	16.4	-7.2	2	-47.2	5.6
2.46095	11.7	16.4	-6.7	2	-46.7	7.2
2.461	11	16.4	-7.4	2	-47.4	5
2.46105	11.3	16.4	-7.1	2	-47.1	6
2.4611	11.7	16.4	-6.7	2	-46.7	7.3
2.46115	11	16.4	-7.4	2	-47.4	5.1
2.4612	11.2	16.4	-7.2	2	-47.2	5.7
2.46125	11.2	16.4	-7.2	2	-47.2	5.7
2.4613	11.8	16.4	-6.6	2	-46.6	7.6
2.46135	11.5	16.4	-6.9	2	-46.9	6.7
2.4614	11.5	16.4	-6.9	2	-46.9	6.7
2.46145	11.2	16.4	-7.2	2	-47.2	5.8
2.4615	11.5	16.4	-6.9	2	-46.9	6.6
2.46155	11.9	16.4	-6.5	2	-46.5	7.7
2.4616	11.8	16.4	-6.6	2	-46.6	7.4
2.46165	11.3	16.4	-7.1	2	-47.1	5.9
2.4617	11.9	16.4	-6.5	2	-46.5	7.8
2.46175	11.5	16.4	-6.9	2	-46.9	6.5
2.4618	11.8	16.4	-6.6	2	-46.6	7.5
2.46185	11.5	16.4	-6.9	2	-46.9	6.7
2.4619	11	16.4	-7.4	2	-47.4	5.1
2.46195	11.5	16.4	-6.9	2	-46.9	6.7
2.462	11.1	16.4	-7.3	2	-47.3	5.3
2.46205	11.1	16.4	-7.3	2	-47.3	5.5
2.4621	11.1	16.4	-7.3	2	-47.3	5.4
2.46215	11.5	16.4	-6.9	2	-46.9	6.7
2.4622	11.8	16.4	-6.6	2	-46.6	7.6
2.46225	11	16.4	-7.4	2	-47.4	5.1
2.4623	11.3	16.4	-7.1	2	-47.1	5.9
2.46235	11.2	16.4	-7.2	2	-47.2	5.8
2.4624	11.4	16.4	-7	2	-47	6.3
2.46245	11.6	16.4	-6.8	2	-46.8	6.8
2.4625	11.7	16.4	-6.7	2	-46.7	7.3
2.46255	11.4	16.4	-7	2	-47	6.2
2.4626	11.6	16.4	-6.8	2	-46.8	7

2.46265	11.8	16.4	-6.6	2	-46.6	7.5
2.4627	11.9	16.4	-6.5	2	-46.5	7.9
2.46275	11.3	16.4	-7.1	2	-47.1	6.1
2.4628	11.2	16.4	-7.2	2	-47.2	5.7
2.46285	11.7	16.4	-6.7	2	-46.7	7.2
2.4629	11.2	16.4	-7.2	2	-47.2	5.6
2.46295	11.5	16.4	-6.9	2	-46.9	6.6
2.463	11.9	16.4	-6.5	2	-46.5	7.7
2.46305	11	16.4	-7.4	2	-47.4	5.2
2.4631	11.4	16.4	-7	2	-47	6.3
2.46315	11.9	16.4	-6.5	2	-46.5	7.9
2.4632	11.5	16.4	-6.9	2	-46.9	6.7
2.46325	11.5	16.4	-6.9	2	-46.9	6.6
2.4633	11.1	16.4	-7.3	2	-47.3	5.5
2.46335	11.4	16.4	-7	2	-47	6.2
2.4634	11.7	16.4	-6.7	2	-46.7	7.1
2.46345	11.9	16.4	-6.5	2	-46.5	7.9
2.4635	11.4	16.4	-7	2	-47	6.4
2.46355	11.6	16.4	-6.8	2	-46.8	7
2.4636	11.8	16.4	-6.6	2	-46.6	7.5
2.46365	11.9	16.4	-6.5	2	-46.5	7.8
2.4637	11	16.4	-7.4	2	-47.4	5
2.46375	11.8	16.4	-6.6	2	-46.6	7.6
2.4638	11.8	16.4	-6.6	2	-46.6	7.6
2.46385	11.8	16.4	-6.6	2	-46.6	7.6
2.4639	11.4	16.4	-7	2	-47	6.4
2.46395	11.3	16.4	-7.1	2	-47.1	6.1
2.464	11.7	16.4	-6.7	2	-46.7	7.3
2.46405	11.3	16.4	-7.1	2	-47.1	6
2.4641	11.6	16.4	-6.8	2	-46.8	6.8
2.46415	11.2	16.4	-7.2	2	-47.2	5.6
2.4642	11.5	16.4	-6.9	2	-46.9	6.6
2.46425	11.9	16.4	-6.5	2	-46.5	7.9
2.4643	11.4	16.4	-7	2	-47	6.4
2.46435	11.4	16.4	-7	2	-47	6.4
2.4644	11.6	16.4	-6.8	2	-46.8	6.8
2.46445	11.9	16.4	-6.5	2	-46.5	7.9
2.4645	11.2	16.4	-7.2	2	-47.2	5.6

2.46455	11.4	16.4	-7	2	-47	6.3
2.4646	11.6	16.4	-6.8	2	-46.8	6.8
2.46465	11	16.4	-7.4	2	-47.4	5
2.4647	11.9	16.4	-6.5	2	-46.5	7.7
2.46475	11	16.4	-7.4	2	-47.4	5.1
2.4648	11.9	16.4	-6.5	2	-46.5	7.8
2.46485	11.3	16.4	-7.1	2	-47.1	5.9
2.4649	11.9	16.4	-6.5	2	-46.5	7.7
2.46495	11.5	16.4	-6.9	2	-46.9	6.6
2.465	11	16.4	-7.4	2	-47.4	5.1
2.46505	11.8	16.4	-6.6	2	-46.6	7.4
2.4651	11.7	16.4	-6.7	2	-46.7	7.1
2.46515	12.5	16.4	-5.9	2	-45.9	6.5
2.4652	12.1	16.4	-6.3	2	-46.3	5.3
2.46525	12.9	16.4	-5.5	2	-45.5	7.8
2.4653	12.7	16.4	-5.7	2	-45.7	7.3
2.46535	12.1	16.4	-6.3	2	-46.3	5.4
2.4654	12.4	16.4	-6	2	-46	6.3
2.46545	12.7	16.4	-5.7	2	-45.7	7.1
2.4655	12.8	16.4	-5.6	2	-45.6	7.5
2.46555	12.1	16.4	-6.3	2	-46.3	5.3
2.4656	12.2	16.4	-6.2	2	-46.2	5.7
2.46565	12.8	16.4	-5.6	2	-45.6	7.4
2.4657	12.8	16.4	-5.6	2	-45.6	7.5
2.46575	12.3	16.4	-6.1	2	-46.1	6
2.4658	12	16.4	-6.4	2	-46.4	5.1
2.46585	12.5	16.4	-5.9	2	-45.9	6.6
2.4659	12.1	16.4	-6.3	2	-46.3	5.5
2.46595	12.6	16.4	-5.8	2	-45.8	6.8
2.466	12.1	16.4	-6.3	2	-46.3	5.5
2.46605	12.2	16.4	-6.2	2	-46.2	5.6
2.4661	12.7	16.4	-5.7	2	-45.7	7.2
2.46615	12.6	16.4	-5.8	2	-45.8	6.9
2.4662	13.3	16.4	-5.1	2	-45.1	6
2.46625	13.9	16.4	-4.5	2	-44.5	7.8
2.4663	13	16.4	-5.4	2	-45.4	5.1
2.46635	13.1	16.4	-5.3	2	-45.3	5.5
2.4664	13	16.4	-5.4	2	-45.4	5.2

2.46645	13.9	16.4	-4.5	2	-44.5	7.7
2.4665	13.3	16.4	-5.1	2	-45.1	6
2.46655	13.8	16.4	-4.6	2	-44.6	7.5
2.4666	13.2	16.4	-5.2	2	-45.2	5.7
2.46665	13.6	16.4	-4.8	2	-44.8	7
2.4667	13.1	16.4	-5.3	2	-45.3	5.3
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2.4668	13.7	16.4	-4.7	2	-44.7	7.3
2.46685	13.9	16.4	-4.5	2	-44.5	7.7
2.4669	13.4	16.4	-5	2	-45	6.3
2.46695	14.6	16.4	-3.8	2	-43.8	6.8
2.467	14.7	16.4	-3.7	2	-43.7	7.2
2.46705	14.3	16.4	-4.1	2	-44.1	6.1
2.4671	14.1	16.4	-4.3	2	-44.3	5.4
2.46715	14.3	16.4	-4.1	2	-44.1	6
2.4672	14	16.4	-4.4	2	-44.4	5
2.46725	14.8	16.4	-3.6	2	-43.6	7.5
2.4673	15.5	16.4	-2.9	2	-42.9	6.5
2.46735	15.8	16.4	-2.6	2	-42.6	7.5
2.4674	15.8	16.4	-2.6	2	-42.6	7.4
2.46745	15	16.4	-3.4	2	-43.4	5.1
2.4675	15.4	16.4	-3	2	-43	6.4
2.46755	15.8	16.4	-2.6	2	-42.6	7.5
2.4676	15.2	16.4	-3.2	2	-43.2	5.6
2.46765	15	16.4	-3.4	2	-43.4	5.2
2.4677	15.9	16.4	-2.5	2	-42.5	7.8
2.46775	16.2	16.4	-2.2	2	-42.2	5.6
2.4678	16.7	16.4	-1.7	2	-41.7	7.3
2.46785	16.7	16.4	-1.7	2	-41.7	7.3
2.4679	16.1	16.4	-2.3	2	-42.3	5.3
2.46795	16.9	16.4	-1.5	2	-41.5	7.7
2.468	16.6	16.4	-1.8	2	-41.8	6.8
2.46805	16	16.4	-2.4	2	-42.4	5.2
2.4681	16.1	16.4	-2.3	2	-42.3	5.3
2.46815	16.5	16.4	-1.9	2	-41.9	6.5
2.4682	16	16.4	-2.4	2	-42.4	5.2
2.46825	16.7	16.4	-1.7	2	-41.7	7.1
2.4683	16.7	16.4	-1.7	2	-41.7	7.1

2.46835	16.8	16.4	-1.6	2	-41.6	7.4
2.4684	17.3	16.4	-1.1	2	-41.1	5.9
2.46845	17.2	16.4	-1.2	2	-41.2	5.8
2.4685	17.6	16.4	-0.8	2	-40.8	7
2.46855	17.3	16.4	-1.1	2	-41.1	6.1
2.4686	17.3	16.4	-1.1	2	-41.1	5.9
2.46865	17.9	16.4	-0.5	2	-40.5	7.9
2.4687	17.7	16.4	-0.7	2	-40.7	7.1
2.46875	17.8	16.4	-0.6	2	-40.6	7.4
2.4688	17.3	16.4	-1.1	2	-41.1	6
2.46885	18.7	16.4	0.3	2	-39.7	7.3
2.4689	18.9	16.4	0.5	2	-39.5	7.9
2.46895	18.3	16.4	-0.1	2	-40.1	6.1
2.469	18	16.4	-0.4	2	-40.4	5.1
2.46905	18.8	16.4	0.4	2	-39.6	7.4
2.4691	18.6	16.4	0.2	2	-39.8	6.8
2.46915	18.8	16.4	0.4	2	-39.6	7.4
2.4692	18.2	16.4	-0.2	2	-40.2	5.8
2.46925	18.2	16.4	-0.2	2	-40.2	5.8
2.4693	18.6	16.4	0.2	2	-39.8	7
2.46935	18.8	16.4	0.4	2	-39.6	7.5
2.4694	18	16.4	-0.4	2	-40.4	5.2
2.46945	18.7	16.4	0.3	2	-39.7	7.1
2.4695	18.4	16.4	0	2	-40	6.2
2.46955	18.6	16.4	0.2	2	-39.8	7
2.4696	18.6	16.4	0.2	2	-39.8	7
2.46965	18.1	16.4	-0.3	2	-40.3	5.3
2.4697	18.3	16.4	-0.1	2	-40.1	5.9
2.46975	18.2	16.4	-0.2	2	-40.2	5.8
2.4698	18.4	16.4	0	2	-40	6.4
2.46985	18.4	16.4	0	2	-40	6.4
2.4699	18	16.4	-0.4	2	-40.4	5.2
2.46995	18.7	16.4	0.3	2	-39.7	7.2
2.47	18.6	16.4	0.2	2	-39.8	6.8
2.47005	18.7	16.4	0.3	2	-39.7	7.2
2.4701	18.8	16.4	0.4	2	-39.6	7.5
2.47015	18.6	16.4	0.2	2	-39.8	6.9
2.4702	18.1	16.4	-0.3	2	-40.3	5.5

2.47025	18	16.4	-0.4	2	-40.4	5.1
2.4703	18.1	16.4	-0.3	2	-40.3	5.5
2.47035	18.7	16.4	0.3	2	-39.7	7.3
2.4704	18.2	16.4	-0.2	2	-40.2	5.7
2.47045	18.5	16.4	0.1	2	-39.9	6.6
2.4705	18.3	16.4	-0.1	2	-40.1	6.1
Average Processing Gain=14.3dB						
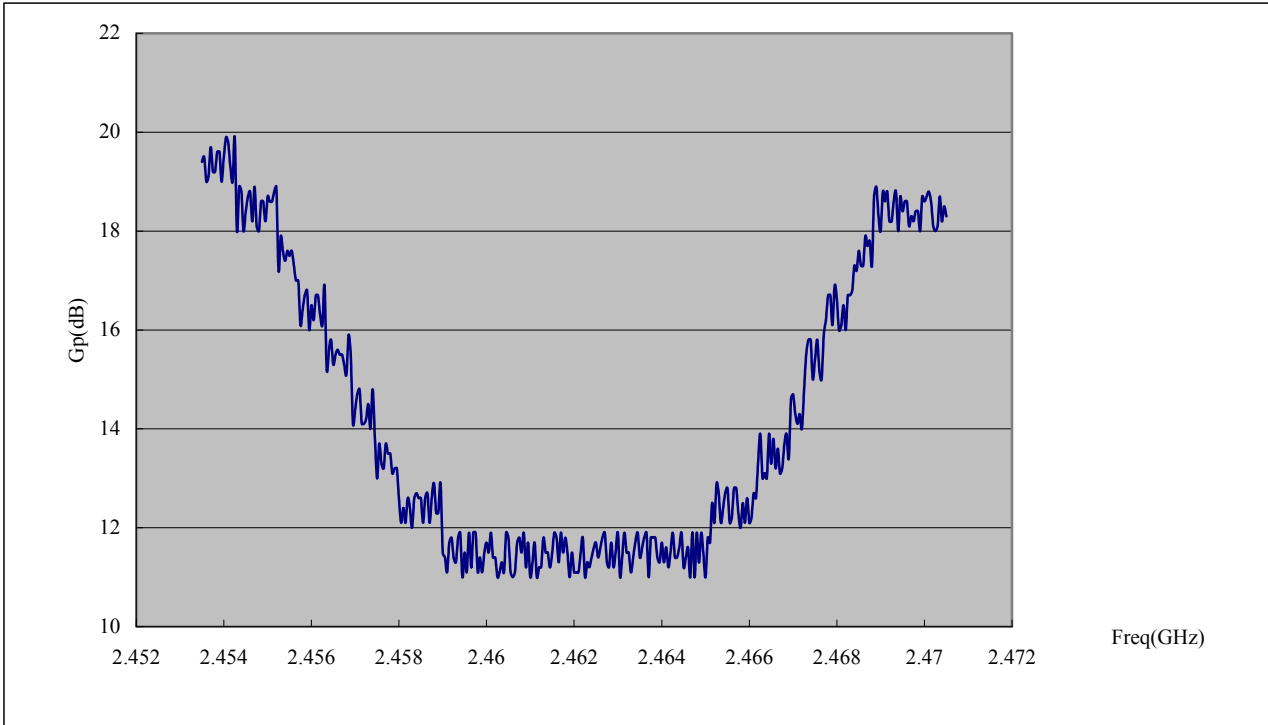
9. EMI Reduction Method During Compliance Testing

No modification was made during testing.

10.   Attachment

Attachment 1: EUT Test Photographs   Number of Pages :   3

Attachment 2: EUT Detailed Photographs   Number of Pages :   4

Attachment 1 : EUT Test Photographs

Attachment 2 : EUT Detailed Photographs