

Certificate of Test

September 2004

PRIME ELECTRONICS & SATELLITICS INC.

Product Type : Wireless LAN USB Adapter
Model Number : WU233g
Test Report Number : GTK-0409011
Date of Test : September 02, 2004- September 09, 2004

This Product was tested to the following standards at the laboratory of Global EMC Standard Tech. Corp., and found Compliance.

Standards:

FCC Part 15 Subpart C Paragraph 15.247
ANSI C63.4: 2001

<http://www.gestek.com.tw>



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Date: September 15, 2004



1082
ILAC MRA





**Test Report
Application for
Declaration of Conformity
On Behalf Of**

PRIME ELECTRONICS & SATELLITICS INC.

**EUT:
Wireless LAN USB Adapter**

**Model Number:
WU233g**

**FCC ID:
PQP-WU233G**

**Prepared for:
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TABLE OF CONTENTS

DESCRIPTION	PAGE
1. CERTIFICATION	3
2. GENERAL INFORMATION	4
2.1 PRODUCTION DESCRIPTION	4
2.2 OPERATIONAL DESCRIPTION	5
2.3 TEST MODES & EUT COMPONENTS DESCRIPTION	5
2.4 CONFIGURATION OF THE TESTED SYSTEM	6
2.5 TEST FACILITY	8
2.6 TEST SETUP	9
2.7 EUT OPERATING CONDITIONS	9
3. CONDUCTION EMISSION DATA	10
3.1 TEST EQUIPMENTS	10
3.2 BLOCK DIAGRAM OF TEST SETUP	10
3.3 CONDUCTED EMISSION LIMIT	11
3.4 OPERATING CONDITION OF EUT	11
3.5 EUT CONFIGURATION ON MEASUREMENT	11
3.6 CONDUCTED EMISSION DATA	11
3.7 CONDUCTED EMISSIONS MEASUREMENT RESULTS	12
4. RADIATION EMISSION DATA	13
4.1 TEST EQUIPMENT	13
4.2 OPEN TEST SITE SETUP DIAGRAM	13
4.3 RADIATED EMISSION LIMIT	14
4.4 EUT CONFIGURATION	14
4.5 OPERATING CONDITION OF EUT	14
4.6 RADIATED EMISSION DATA	14
4.7 RADIATED EMISSIONS MEASUREMENT RESULTS	15
5. PEAK POWER OUTPUT	33
5.1 TEST EQUIPMENT	33
5.2 BLOCK DIAGRAM OF TEST SETUP	33
5.3 PEAK POWER OUTPUT LIMIT	33
5.4 TEST RESULT	34
6. BAND EDGE	35
6.1 TEST EQUIPMENT	35
6.2 BLOCK DIAGRAM OF TEST SETUP	35
6.3 BAND EDGE LIMIT	36
6.4 EUT CONFIGURATION	36
6.5 OPERATING CONDITION OF EUT	36
6.6 TEST RESULT	37
7. OCCUPIED BANDWIDTH	47
7.1 TEST EQUIPMENT	47
7.2 BLOCK DIAGRAM OF TEST SETUP	47
7.3 LIMIT	47
7.4 TEST RESULT	48
8. POWER DENSITY	52
8.1 TEST EQUIPMENT	52
8.2 BLOCK DIAGRAM OF TEST SETUP	52
8.3 LIMIT	52
8.4 TEST RESULT	53
9. PHOTOGRAPHS FOR TEST	57
9.1 TEST PHOTOGRAPHS FOR CONDUCTION	57
9.2 TEST PHOTOGRAPHS FOR RADIATION	58
10. PHOTOGRAPHS FOR PRODUCT	60
11. EMI REDUCTION METHOD DURING COMPLIANCE TESTING	66

1. CERTIFICATION

Applicant : PRIME ELECTRONICS & SATELLITICS INC.

EUT Description : Wireless LAN USB Adapter
 Model Number : WU233g
 Serial Number : N/A
 FCC ID : PQP-WU233G
 Tested Power Supply : 120V/60Hz

MEASUREMENT PROCEDURES USED:

- CFR 47, Part 15** Radio Frequency Device Subpart C Paragraph 15.247 Intentional Radiators :2000
- ANSI C63.4** Methods of Measurements of Radio-Noise Emissions from Low- Voltage Electrical and Electronic Equipment in the range of 9kHz To 40GHz. 2001

THE MEASUREMENT SHOWN IN THE ATTACHMENT WAS MADE IN ACCORDANCE WITH THE PROCEDURES INDICATED, AND THE MAXIMUM ENERGY EMITTED BY THE EQUIPMENT WAS FOUND TO BE WITHIN THE ABOVE LIMITS APPLICABLE.



Sample Received Date : **September 02, 2004**

Final Test Date : **September 09, 2004**

In order to ensure the quality and accuracy of this document, the contents have been thoroughly reviewed by the following qualified personnel from GesTek Lab.

<p>Documented By :</p> <p><i>Rini Chen</i></p> <hr style="border: 0.5px solid blue;"/> <p>Rini Chen / adm. Dept. Supervisor</p>	<p>Test By :</p> <p><i>John Wu</i></p> <hr style="border: 0.5px solid blue;"/> <p>John Wu / eng. Dept. Engineer</p>
<p>Technical Reviewed By :</p> <p><i>Shine Chang</i></p> <hr style="border: 0.5px solid blue;"/> <p>Shine Chang / eng. Dept. Supervisor</p>	<p>Approved By :</p> <p><i>Tonny Lin</i></p> <hr style="border: 0.5px solid blue;"/> <p>Tonny Lin / General Manager</p>

This test data shown below is traceable to National or international standard such as NIST/USA, etc. The laboratory's NVLAP accreditation in no way constitutes or implies product certification, approval, or endorsement by NVLAP or the United States government.

2. GENERAL INFORMATION

2.1 PRODUCTION DESCRIPTION

Product Name : Wireless LAN USB Adapter
Model Number : WU233g
Serial Number : N/A
FCC ID : PQP-WU233G
Modulation Type : DBPSK, DQPSK, OFDM, CCK
Antenna Gain : 0dBi
Antenna Type : Soldered on PCB
Frequencg Range : 2412-2462MHz
Channel Number : 11 Channel
Data Rate : 1, 2, 5.5, 11, 6, 9, 12, 18, 24, 36, 48, 54Mbps
Channel Control : Auto
Working Voltage : AC 120V/60Hz
USB Cable : 110cm, Non-Shielded, with core x 1

Frequency of Each Channel:

(1) WLAN :

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

Note:

1. This device is a 2.4GHz Wireless LAN USB Adapter included 802.11b and 802.11g 2.4GH transceiver function.
2. Test of channel was included the lowest, middle and highest frequency in highest data rate and to perform the test, then record on this report.
3. 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.
4. The device is a transceiver equipment to accordance with Part 15 regulations. The function receiving was under Declaration of Conformity and record of measurement in test report that the report number is 0409011FCC DOC.

2.2 OPERATIONAL DESCRIPTION

The Transmitter of EUT is a Wireless USB Adapter and powered by host equipment. This device have one antenna is soldered on PCB. The other instruction, please look at user manual. This is Digital transmission System(DTS) and have four type of modulation DBPSK DQPSK CCK & OFDM. The data rate are 1,2,5.5,11,6,9,12,18,24,36,48.54 Mbps. The equipment enables high-speed access without wires to network assets. This adapter uses the IEEE 802.11b & 802.11g protocol to enable wireless communications between the host computer and other computers, in the same way that the computer would use an Ethernet adapter.

2.3 TEST MODES & EUT COMPONENTS DESCRIPTION

EUT: Wireless LAN USB Adapter, M/N: WU233g		
The EUT tested with Notebook PC.		
Test Mode	Mode 1	Mode 2
	802.11b	802.11g
USB Cable	110cm, Non-Shielded, with core x 1	

2.4 CONFIGURATION OF THE TESTED SYSTEM


The FCC IDs/Types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards, which have grants) are:

Device	No.	Configuration
D-Sub Monitor	M01-035	Manufacturer : ADI Model Number : MICRO SCAN G1000 Serial Number : N/A BSMI ID : 3892A351 FCC ID : N/A Data Cable : Shielded, detachable, 1.5m, VGA Cable Power Cord : 3Pin, Shielded, Detachable, 1.5m
Modem	M03-028	Manufacturer : ACEEX Model Number : 1414V Serial Number : 0046183 BSMI ID : N/A FCC ID : IFAXDM1414 Data Cable : T Type:RS232, Shielded, Detachable, 1.2m Power Cord : Non-Shielded, Detachable, 1.5m Line : Type:RJ11(4P2C), Detachable, 1.8m Phone : Type:RJ11(4P2C), Detachable, 1.8m
Headset & Earphone	E01-062	Manufacturer : TOKYO Model Number : SX-M1 Serial Number : N/A Data Cable : Non-Shielded, Undetachable, 1.8 m Power Cord : N/A Purchase Date : 2/22/1999
USB Mouse	M02-279	Manufacturer : Logitech Model Number : M-U48A BSMI ID : 4882A177 FCC ID : JNZ211360 Data Cable : Shielded, Undetachable, 1.5m
Printer	P01-015	Manufacturer : Hewlett Packard Model Number : 2225C Serial Number : 2512S40942 BSMI ID : 3892A957 FCC ID : BS46XU2225C Data Cable : Shielded, Detachable, 1.2m, Parallel Cable Power Cord : Non-Shielded, Detachable, 1.8m
Digital Video Camera Recorder (Digital 8)	V01-004	Manufacturer : SONY CORPORATION Model Number : DCR-TRV230 Serial Number : 380334 BSMI ID : N/A AC Power Adaptor : M/N:AC-L10B, S/N:60308774 Input:AC IN:100-240V 50/60Hz 23W Output:DC 8.4V/1.5A Battery Pack(Li-ion): M/N:NP-FM30 Input :DC 7.2V/5.0Wh

Device	No.	Configuration
NOTEBOOK	DELL NB 2	Model Number : Latitude D600 PPO5L BSMI ID : R33002 Serial Number : 11444680576 C.P.U : Intel Pentium M 1.4G HZ DDR : PC2100 256MB F.D.D : N/A H.D.D. : Manufacturer : HITACHI 20.G M/N: IC25N020ATMR04-0, S/N:MRG157K1GJP9JH BSMI ID:D33082 CD-ROM : Manufacturer :DELL M/N:6T980-A01 BATTERY : Manufacturer:DELL Li-ion MODULE M/N:6Y270 RATING:14.8V 220mAh AC ADAPTOR : Manufacturer :DELL M/N: PA-1650-05D S/N:CN-05U092-71615-41K-58C3 INPUT:AC 100-240 V~1.5A 50-60HZ Shielded, Undetachable, 2.5m
NOTEBOOK	DELL NB 1	Model Number : Latitude D600 PPO5L BSMI ID : R33002 FCC ID : E2K24CLNS Serial Number : 10826163280 C.P.U : Intel Pentium M 1.4G HZ DDR : PC2100 256MB WIRELESS LAN : Manufacturer :INTEL CARD M/N:WM3A2100 FCC ID: E2K24CLNS F.D.D : N/A H.D.D. : Manufacturer : FUJITSU 30G M/N: MHT2030AT S/N:NN15T421E09C BSMI ID:D33073 DVD-ROM : Manufacturer :DELL M/N:5W299-A01 BATTERY : Manufacturer :DELL Li-ion MODULE M/N:6Y270 RATING:14.8V 220mAh AC ADAPTOR : Manufacturer :DELL M/N: PA-1650-05D S/N:CN-05U092-48010-39N-227C INPUT:AC 100-240 V~1.5A 50-60HZ Shielded, Undetachable, 2.5m

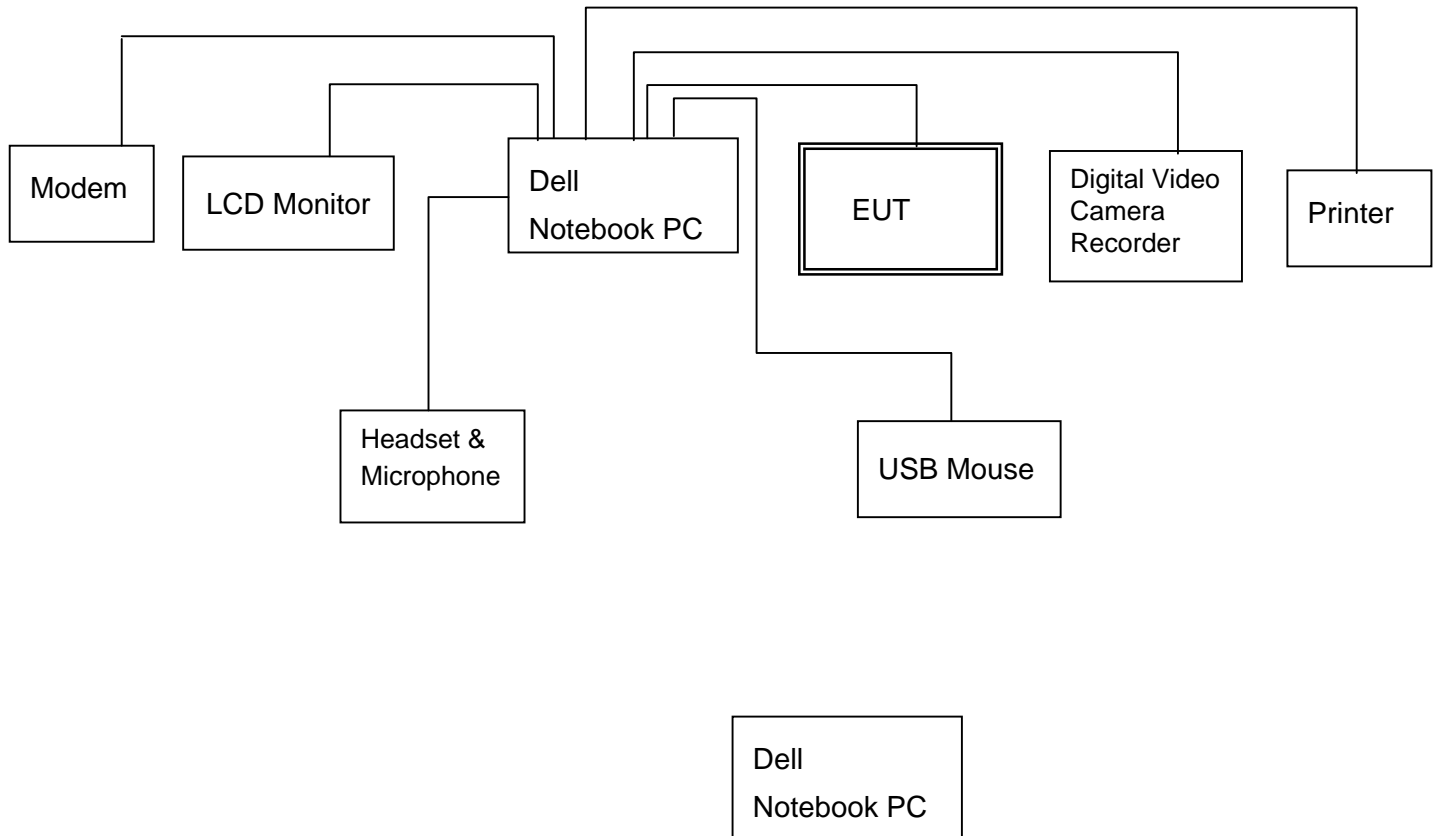
2.5 TEST FACILITY

Ambient conditions in the laboratory:

ITEMS	REQIORED(IEC 68-1)	ACTUAL
TEMPERATURE (°C)	15-35	24-27
HUMIDITY (%RH)	25-75	50-65
BAROMETRIC PRESSURE (mbar)	860-1060	950-1000
FCC SITE DESCRIPTION	Aug. 10, 1995 /Aug. 25, 1998 File on FCC Engineering Laboratory Federal Communication Commission 7435 Oakland Mills Road Columbia, MD 21046 Reference 31040/SIT1300F2	
NVLAP LAB. CODE	200085-0 United States Department of commerce National Institute of Standards and Technology National Voluntary Laboratory Accreditation Program Accreditation on NVLAP effective through Sep. 30,2004 For CISPR 22, FCC Method and AS/NZS 3548 Measurement.	
Chinese National Laboratory Accreditation Certificate R.O.C. 	Recognized by the Council of Chinese National Laboratory Accreditation and confirmed to meet the requirements of ISO/IEC 17025 also has been registered for fifteen items, and meet the requirements of the Article 4 of Measures Governing the Recognition both Approval of Designated Laboratory for Commodities Inspection and has been registered for four items within the field of Electrical Testing. Registration No.: 1082 Registration on CNLA effective through April 30, 2006.	

2.6 TEST SETUP

2.6.1 BLOCK DIAGRAM OF CONNECTIONS BETWEEN EUT AND SIMULATORS



2.7 EUT OPERATING CONDITIONS

The EUT exercise program used during conducted testing was designed to exercise the EUT in a manner similar to a typical use. The exercise sequence is listed as below:

1. Setup the EUT and simulators as shown on 2.6.
2. Turn on the power of all equipments.
3. The EUT ping with the wireless LAN card.
4. Repeat the above steps.

3. CONDUCTION EMISSION DATA

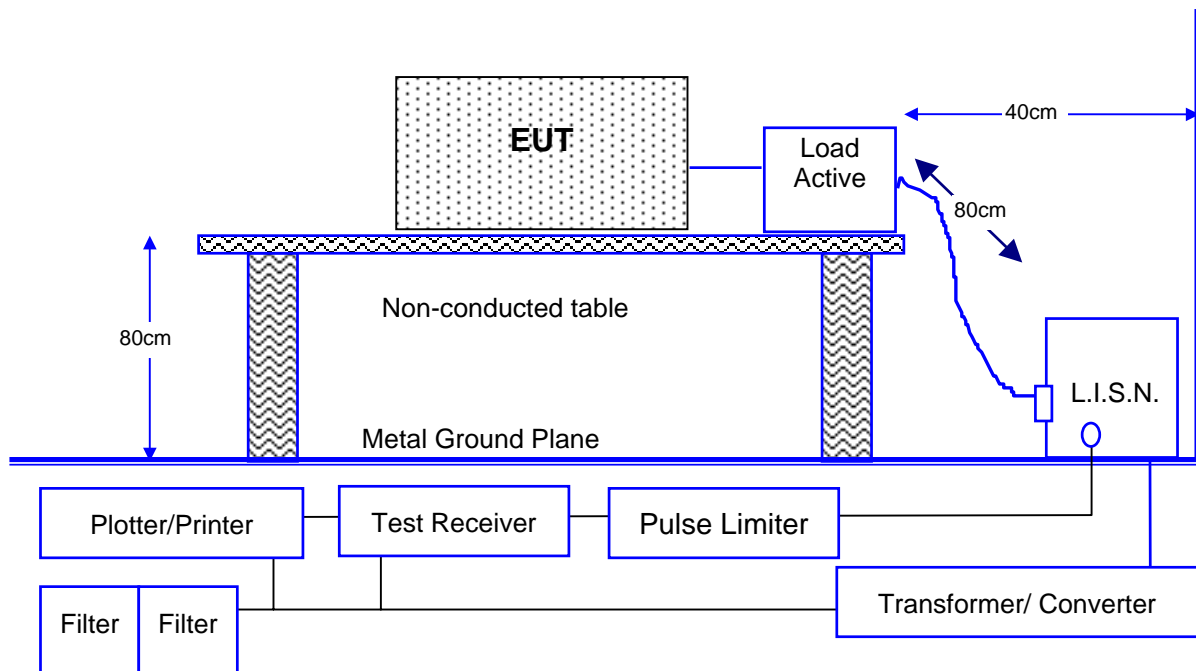
3.1 TEST EQUIPMENTS

The following test equipment are used during the conducted power line tests:

Item	Instrument	Manufacturer	Model	Serial No.	Last Cal.
1	Test Receiver	Rohde & Schwarz	ESHS30	828109/010	12/22/03
2	L.I.S.N.	KYORISTU	KNW-407	8-1345-10	11/20/03
3	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	357.8810.52	08/07/03
4	RF CABLE	GesTek	N/A	GTK-E-A154-01	12/03/03
5	50 Ohm Terminator	GesTek	N/A	GTK-E-A130-01	10/11/03
6	Shielded Room	GesTek	N/A	B5	N/A

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

3.2 BLOCK DIAGRAM OF TEST SETUP



Note: This is a representative setup diagram for Table-top EUT.
For Floor-standing EUT, the table will be removed with all other setup conditions remain the same.

3.3 CONDUCTED EMISSION LIMIT

FCC Limit (15.207)

Frequency MHz	Conducted Limits dB(μ V)	
	QUASI-PEAK	AVERAGE
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5.0	56	46
5.0 to 30	60	50

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

3.4 OPERATING CONDITION OF EUT

Same as section 2.7.

3.5 EUT CONFIGURATION ON MEASUREMENT

The equipment, which is listed 3.1, is installed on Conducted Power Line Test to meet the Commission requirement and operating in a manner, which tends to maximize its emission characteristics in a normal application.

The device under test, installed in a representative system as described in section 3.2, was placed on a non-conductive table whose total height equal to 80cm. Powered from one L.I.S.N. which signal output to receiver, and the other peripherals was powered from another L.I.S.N. which signal output was terminated by 50 Ω .

3.6 CONDUCTED EMISSION DATA

The measurement range of conducted emission from [0.15 MHz to 30 MHz](#) was investigated. All readings are quasi-peak and average values with a resolution Bandwidth of 9 KHz. The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range for all the test modes. Then the worst modes were reported the following data pages.

3.7 CONDUCTED EMISSIONS MEASUREMENT RESULTS

Date of Test	September 06, 2004	Temperature	25
EUT	Wireless LAN USB Adapter	Humidity	58 %
Test Mode	Tx Mode	Display Pattern	H Pattern

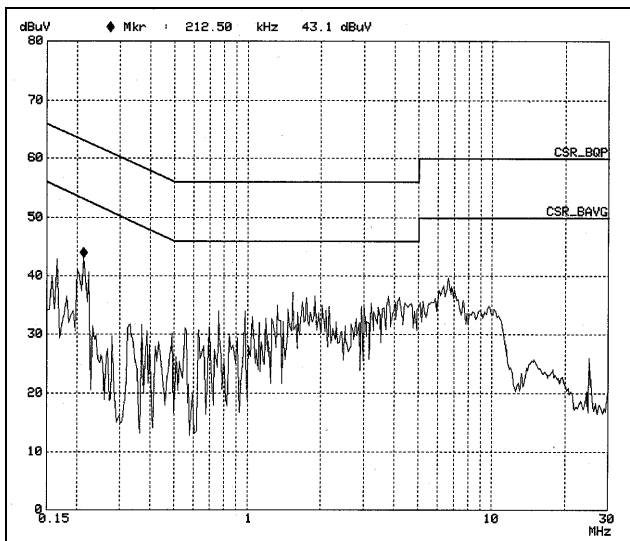
No.	FREQUENCY	READING LEVEL dB μ V		LIMIT	
	MHz	LINE1 Q.P.	LINE1 AV.	Q.P.	AV.
1	0.213	41.80	30.80	63.11	53.11
2	0.330	31.93	23.23	59.46	49.46
3	0.768	31.40	27.50	56.00	46.00
4	1.537	35.26	30.26	56.00	46.00
5	3.776	36.23	30.43	56.00	46.00
6	6.646	35.71	29.01	60.00	50.00

No.	FREQUENCY	READING LEVEL dB μ V		LIMIT	
	MHz	LINE2 Q.P.	LINE2 AV.	Q.P.	AV.
1	0.220	41.70	30.70	62.81	52.81
2	0.326	33.04	26.24	59.54	49.54
3	0.420	28.30	23.70	57.46	47.46
4	1.611	34.06	29.96	56.00	46.00
5	1.888	35.28	31.38	56.00	46.00
6	6.084	37.51	29.81	60.00	50.00

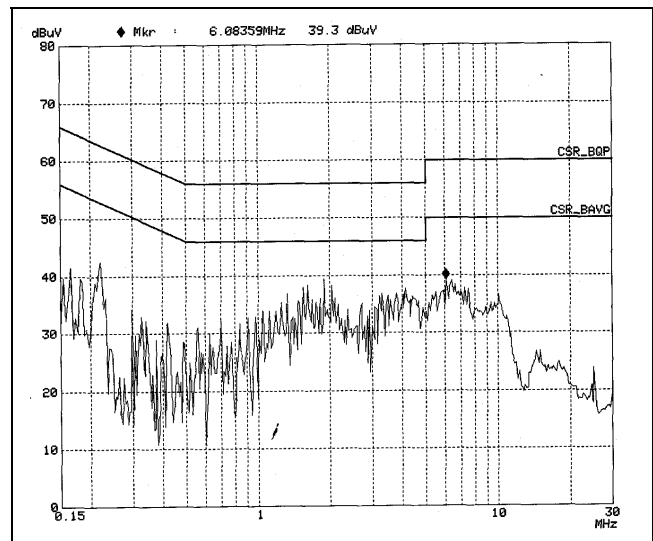
Remarks :

- 1 All readings are Quasi-peak and Average..
- 2 " " means that this data is the worse case emission level.
- 3 Final measurement = (Receiver reading) + (Correction factor if available).

Line 1



Line 2



4. RADIATION EMISSION DATA

4.1 TEST EQUIPMENT

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

Radiated test was performed on: Site #1 Site #2 Site #3 Site #4

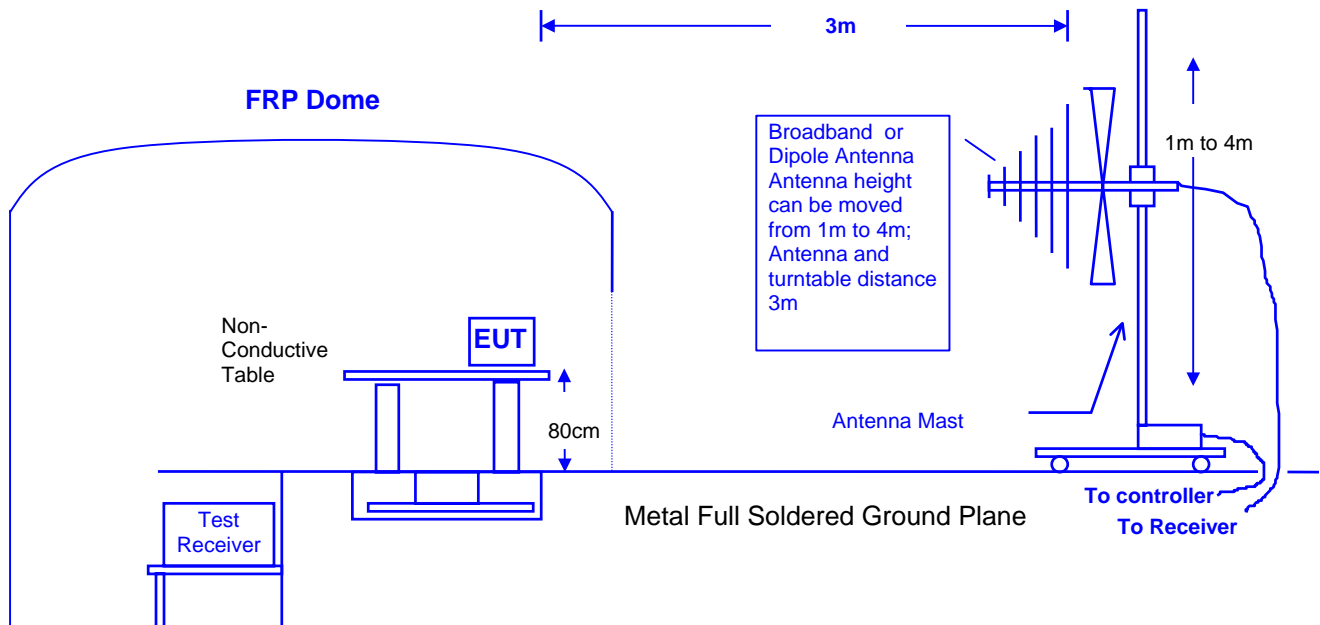
Item	Instrument	Manufacturer	Model	Serial No.	Last Cal.
1	Test Receiver	Rohde & Schwarz	ESCS30	100035	06/10/04
2	Spectrum Analyzer	Rohde & Schwarz	FSP40	100061	03/16/04
3	Spectrum Analyzer	HP	E4407B	39240339	07/28/04
4	Power Meter	Rohde & Schwarz	NRVS	100666	04/29/04
5	Peak Power Sensor	Rohde & Schwarz	NRV-Z32	8360191058	04/29/04
6	Pre-Amplifier	HP	8449B	3008A01263	03/10/04
7	BILOG ANTENNA	SCHAFFNER	CBL6112B	2620	12/01/03
8	Horn Antenna	Electro-Metrics	EM-6961	103318	02/19/04
9	Horn Antenna	Schwarzbeck	BBHA 9120	D243	12/18/03
10	RF Cable	GesTek	N/A	GTK-E-A151-01	02/09/04
11	Open Site	GesTek	N/A	B1	11/25/03
12	Test Program Software	GesTek	N/A	GTK-E-S001-01	N/A

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

4.2 OPEN TEST SITE SETUP DIAGRAM

Note: This is a comprehensive setup diagram for Table-top EUT.

For Floor-standing EUT, the table will be removed with all others setup condition remain the same.



4.3 RADIATED EMISSION LIMIT

☒ FCC Class C Limit at 3m

Frequency	Distance	Field Strength	
		$\mu\text{V}/\text{M}$	$\text{dB}\mu\text{V}/\text{M}$
30 to 88	3	100	40.0
88 to 216	3	150	43.5
216 to 960	3	200	46.0
Above 960	3	500	54.0

Note: The frequencies above 1000MHz, as measured using instrumentation with a peak detector function was corresponding to 20dB above the maximum permitted average limit.

4.4 EUT CONFIGURATION

The equipment, which is listed on 4.1 was, installed on radiated emission test to meet the commission requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

The device under test, installed in a representative system as described in section 4.2, was placed on a non-conductive table whose total height equaled 80 cm. This table can be rotated 360 degree. The measurement antenna was mounted to a non-conductive mast capable of moving the antenna vertically. Antenna height was varied from 1 meter to 4 meters and the system under test was rotated from 0 degree through 360 degrees relative to the antenna position and polarization (Horizontal and Vertical). Also the I/O cable position was investigated to find the maximum emission condition.

4.5 OPERATING CONDITION OF EUT

Same as section 2.7.

4.6 RADIATED EMISSION DATA

The measurement range of radiated emissions from **30 MHz to 10 Harmonics** was investigated. All readings below 1GHz are quasi-peak values with a resolution bandwidth of 120 KHz. Above 1GHz are peak and avg. values with a resolution bandwidth of 1MHz. The initial step in collecting radiated emission data is a spectrum analyzer peak scans of the measurement range for all the test modes and then use test receiver for final measurement. Then the worst modes were reported the following data pages..

4.7 RADIATED EMISSIONS MEASUREMENT RESULTS

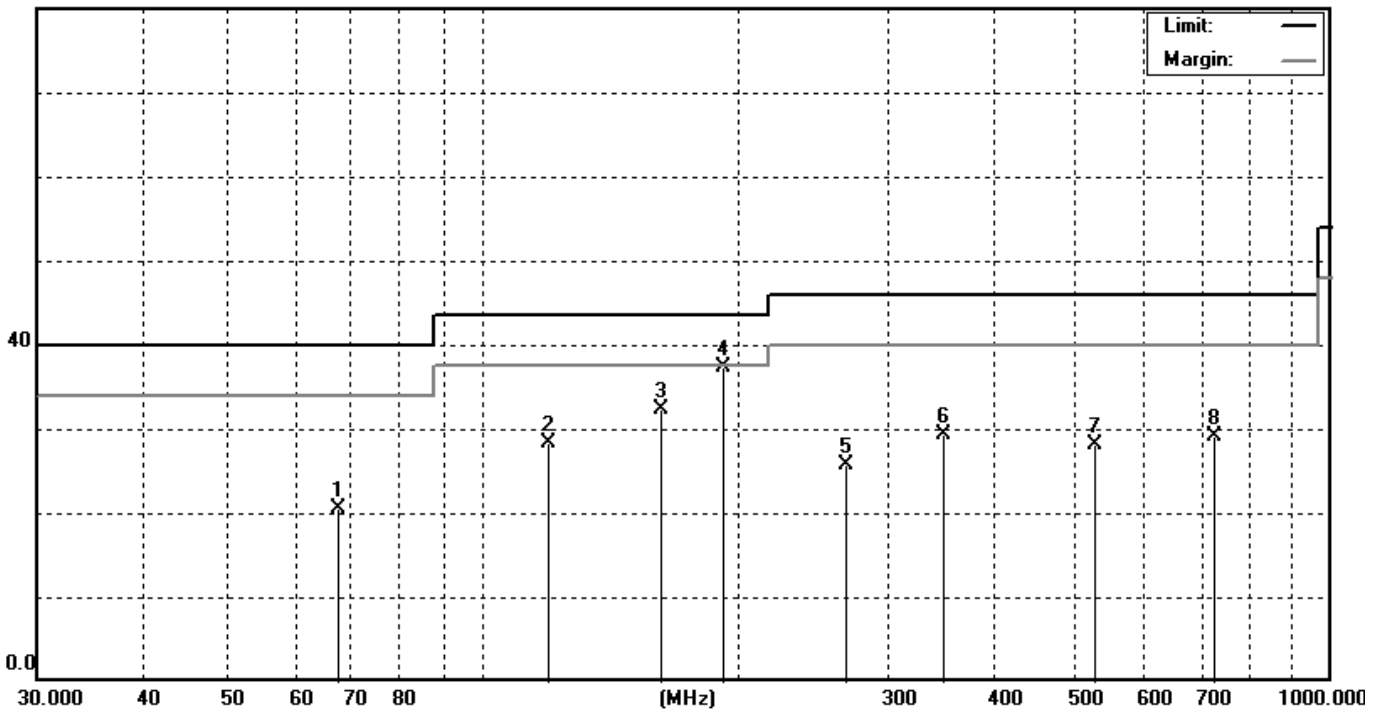
Date of Test	September 06, 2004	Temperature	24 deg/C
EUT	Wireless LAN USB Adapter	Humidity	58 %RH
Working Cond.	WLAN (Channel 1)	Display Pattern	H Pattern
Antenna distance	3m at Horizontal	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	67.2508	12.69	7.8	20.49	40	-19.51	QP
2	119.7005	14.03	14.19	28.22	43.5	-15.28	QP
3	161.998	19.4	12.9	32.3	43.5	-11.2	QP
4	191.75	25.08	12.18	37.26	43.5	-6.24	QP
5	267.145	9.31	16.33	25.64	46	-20.36	QP
6	347.4632	10.32	18.96	29.28	46	-16.72	QP
7	526.495	4.6	23.44	28.04	46	-17.96	QP
8	729.089	2.3	26.88	29.18	46	-16.82	QP

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Emission Level= Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. The “ ” means this data is worst-case Measurement level.

80.0 dBuV/m



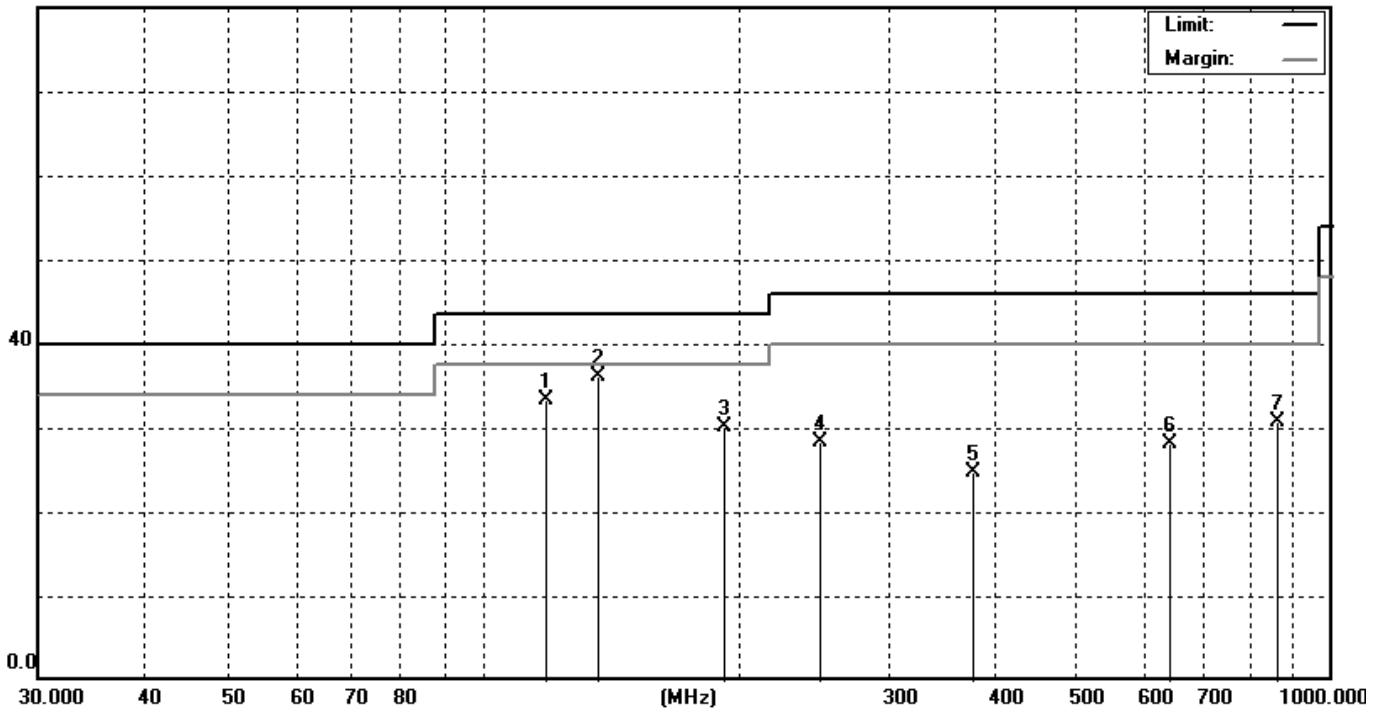
Date of Test	September 06, 2004	Temperature	25 deg/C
EUT	Wireless LAN USB Adapter	Humidity	58 %RH
Working Cond.	WLAN (Channel 1)	Display Pattern	H Pattern
Antenna distance	3m at Vertical	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	118.1	19.22	14.06	33.28	43.5	-10.22	QP
2	135.595	21.88	14.18	36.06	43.5	-7.44	QP
3	191.7473	17.89	12.18	30.07	43.5	-13.43	QP
4	249.9962	12.59	15.77	28.36	46	-17.64	QP
5	374.9935	4.87	19.87	24.74	46	-21.26	QP
6	641.1831	2.78	25.41	28.19	46	-17.81	QP
7	857.9654	1.43	29.23	30.66	46	-15.34	QP

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Emission Level= Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. The " " means this data is worst-case Measurement level.

80.0 dBuV/m



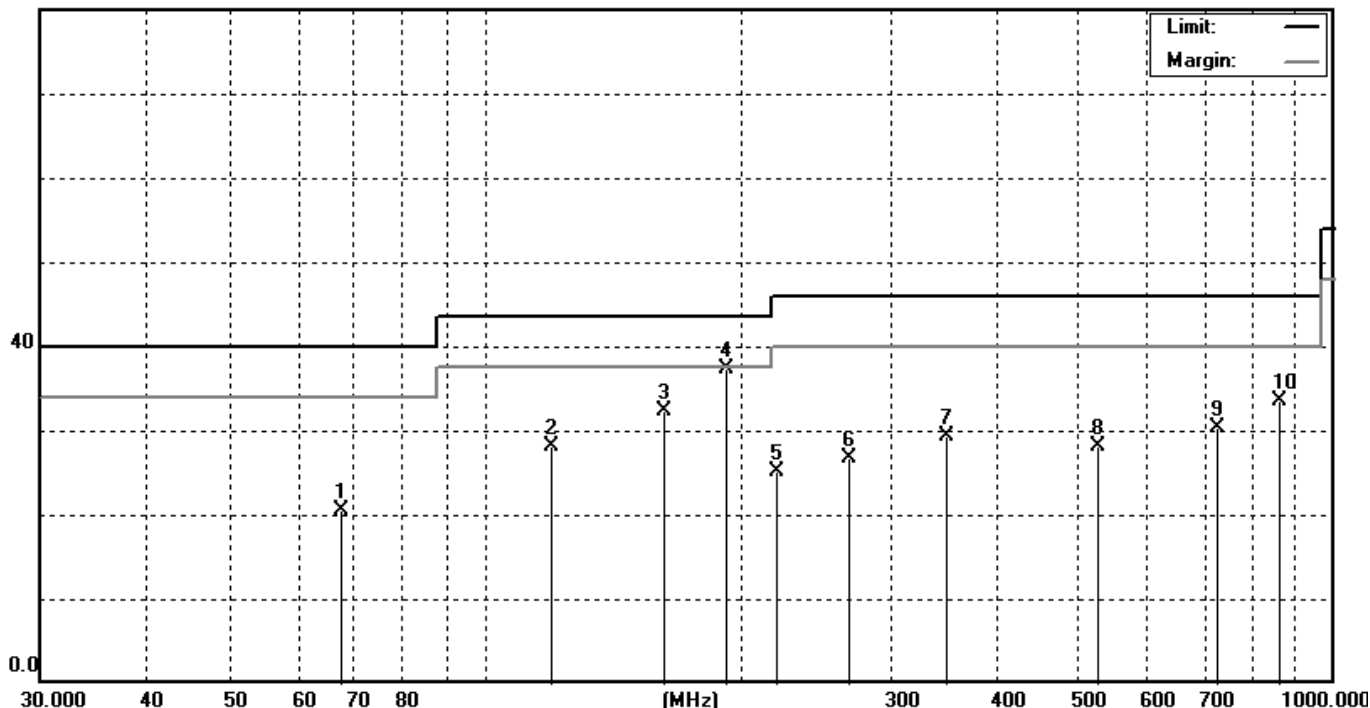
Date of Test	September 06, 2004	Temperature	24 deg/C
EUT	Wireless LAN USB Adapter	Humidity	58 %RH
Working Cond.	WLAN (Channel 6)	Display Pattern	H Pattern
Antenna distance	3m at Horizontal	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	67.2504	12.63	7.8	20.43	40	-19.57	QP
2	119.7	14	14.19	28.19	43.5	-15.31	QP
3	162	19.43	12.9	32.33	43.5	-11.17	QP
4	191.753	25.12	12.18	37.3	43.5	-6.2	QP
5	221.3361	11.35	13.76	25.11	46	-20.89	QP
6	267.1413	10.36	16.33	26.69	46	-19.31	QP
7	347.461	10.39	18.96	29.35	46	-16.65	QP
8	526.4955	4.64	23.44	28.08	46	-17.92	QP
9	729.1093	3.34	26.89	30.23	46	-15.77	QP
10	858.3687	4.21	29.24	33.45	46	-12.55	QP

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Emission Level= Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. The " X " means this data is worst-case Measurement level.

80.0 dBuV/m



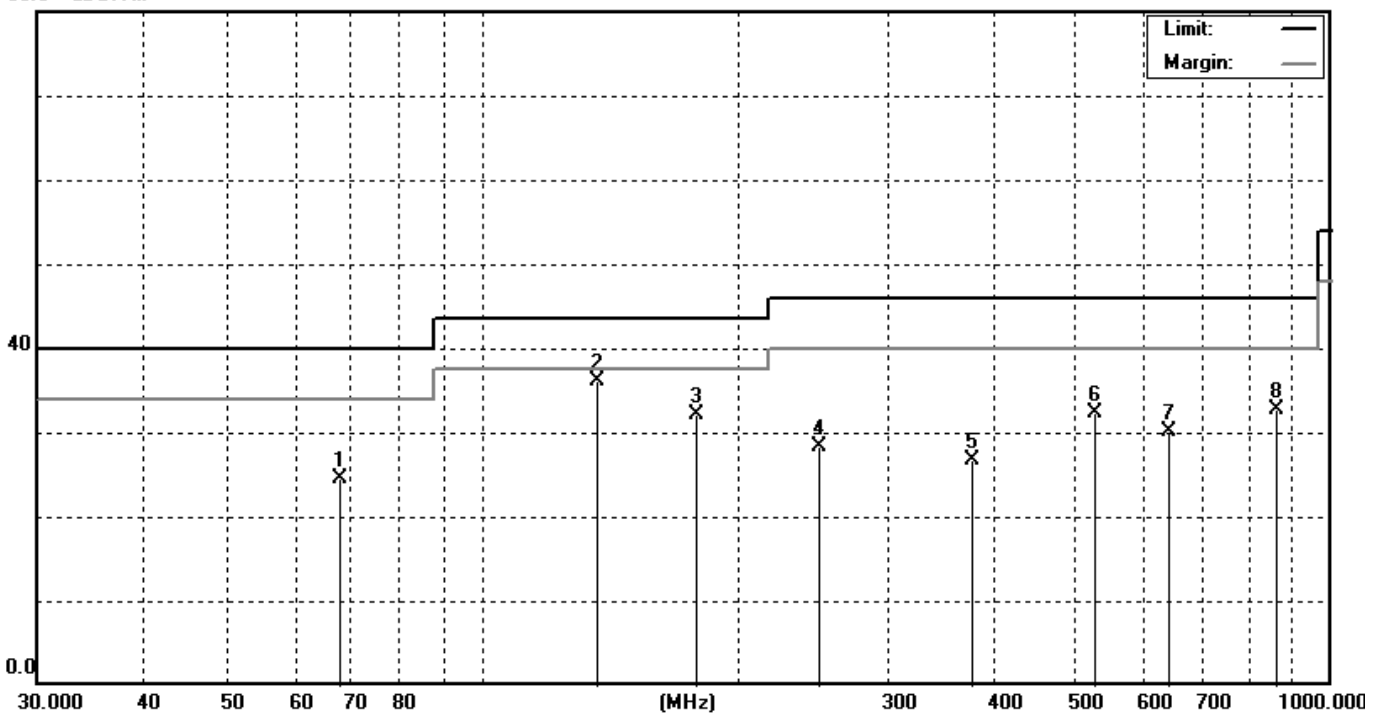
Date of Test	September 06, 2004	Temperature	24 deg/C
EUT	Wireless LAN USB Adapter	Humidity	58 %RH
Working Cond.	WLAN (Channel 6)	Display Pattern	H Pattern
Antenna distance	3m at Vertical	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	68.2368	16.58	7.86	24.44	40	-15.56	QP
2	135.5947	21.92	14.18	36.1	43.5	-7.4	QP
3	178.6357	19.92	12.14	32.06	43.5	-11.44	QP
4	249.9966	12.62	15.77	28.39	46	-17.61	QP
5	374.9938	6.87	19.87	26.74	46	-19.26	QP
6	525.3691	8.87	23.42	32.29	46	-13.71	QP
7	641.183	4.69	25.41	30.1	46	-15.9	QP
8	857.9651	3.44	29.23	32.67	46	-13.33	QP

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Emission Level= Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. The " " means this data is worst-case Measurement level.

80.0 dBuV/m



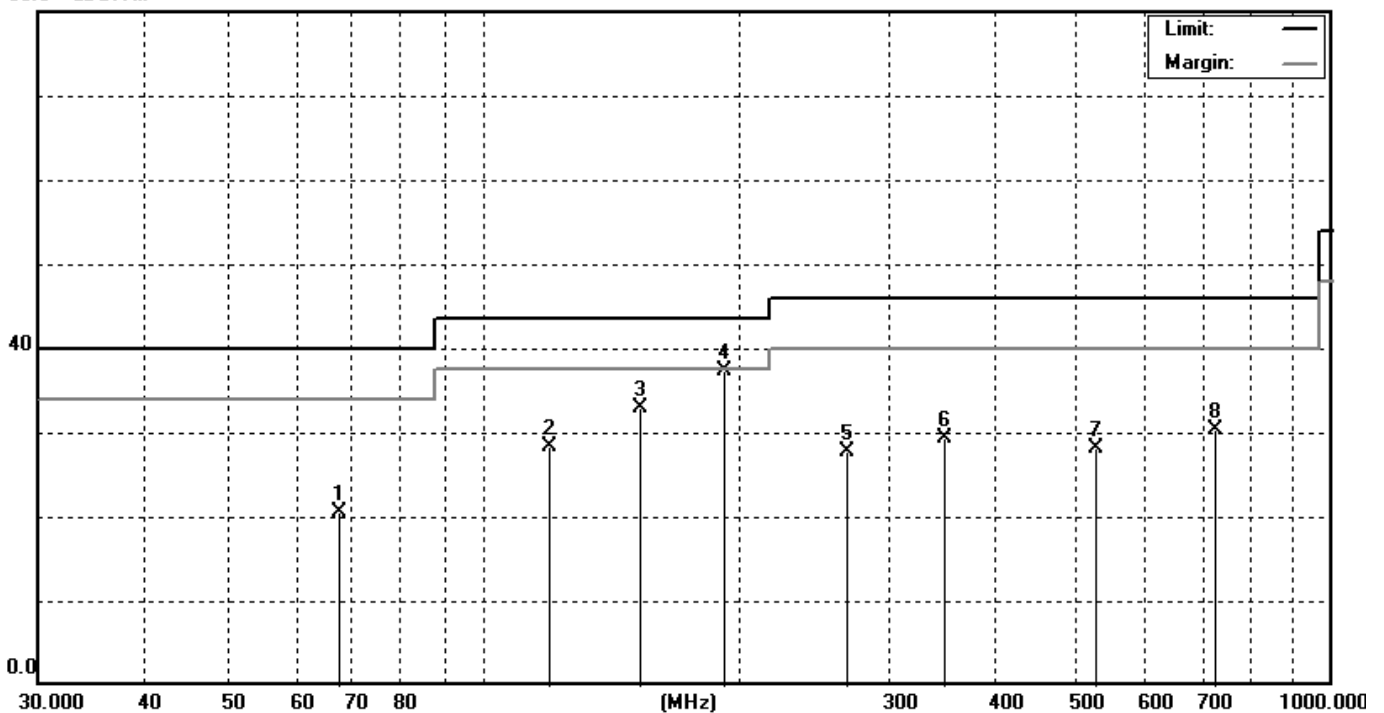
Date of Test	September 06, 2004	Temperature	24 deg/C
EUT	Wireless LAN USB Adapter	Humidity	58 %RH
Working Cond.	WLAN (Channel 11)	Display Pattern	H Pattern
Antenna distance	3m at Horizontal	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	67.25	12.65	7.8	20.45	40	-19.55	QP
2	119.701	14.06	14.19	28.25	43.5	-15.25	QP
3	152.3362	19.4	13.44	32.84	43.5	-10.66	QP
4	191.7532	25.1	12.18	37.28	43.5	-6.22	QP
5	267.1411	11.35	16.33	27.68	46	-18.32	QP
6	347.4612	10.42	18.96	29.38	46	-16.62	QP
7	526.4951	4.66	23.44	28.1	46	-17.9	QP
8	729.1095	3.4	26.89	30.29	46	-15.71	QP

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Emission Level= Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. The "x" means this data is worst-case Measurement level.

80.0 dBuV/m



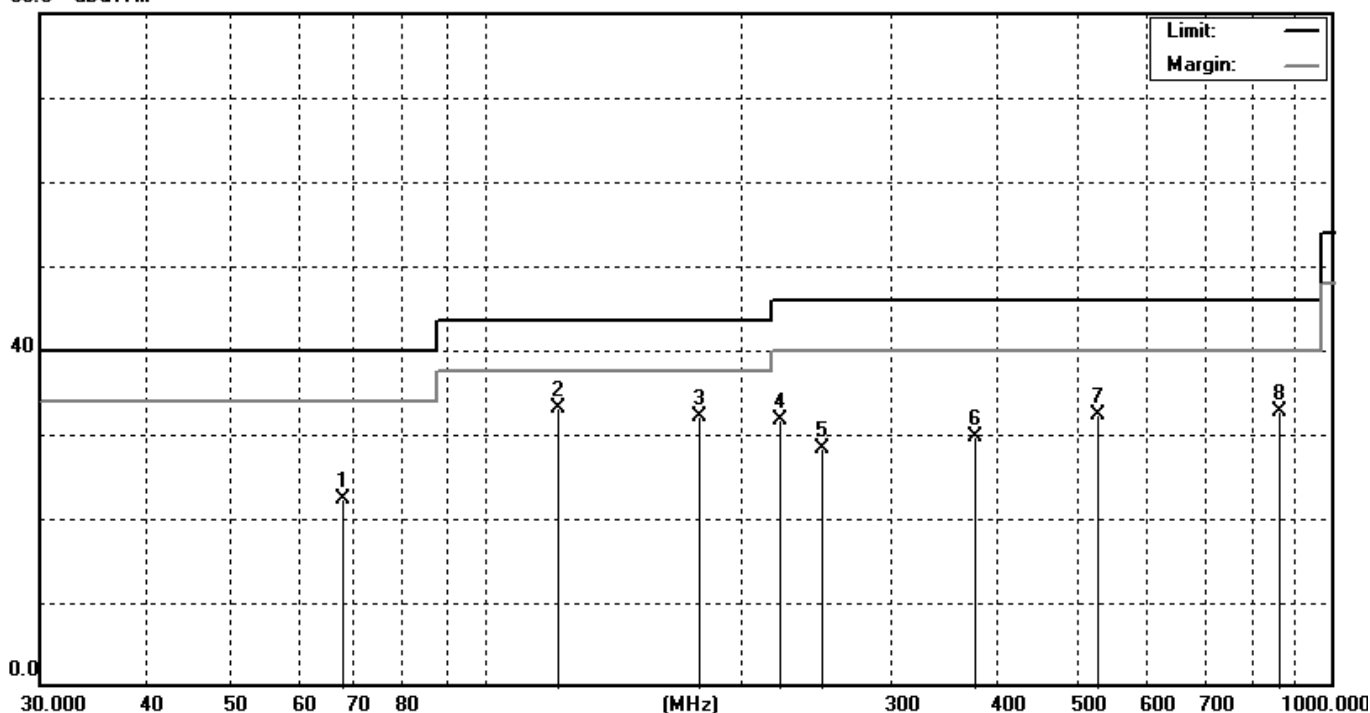
Date of Test	September 06, 2004	Temperature	24 deg/C
EUT	Wireless LAN USB Adapter	Humidity	58 %RH
Working Cond.	WLAN (Channel 11)	Display Pattern	H Pattern
Antenna distance	3m at Vertical	Frequency Range	30-1000MHz

No.	Frequency MHz	Reading Level dBuV	Factor dB	Measurement dBuV/m	Limit dBuV/m	Over Limit dB	Detector
1	68.2364	14.46	7.86	22.32	40	-17.68	QP
2	121.6657	18.9	14.21	33.11	43.5	-10.39	QP
3	178.6355	19.9	12.14	32.04	43.5	-11.46	QP
4	221.5873	17.9	13.77	31.67	46	-14.33	QP
5	249.9962	12.6	15.77	28.37	46	-17.63	QP
6	374.994	9.8	19.87	29.67	46	-16.33	QP
7	525.3688	8.82	23.42	32.24	46	-13.76	QP
8	857.9647	3.56	29.23	32.79	46	-13.21	QP

Remarks:

1. All Readings below 1GHz are Quasi-Peak.
2. Emission Level= Reading + Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
3. Over Limit (Margin Value)=Measurement level-Limit value.
4. The " " means this data is worst-case Measurement level.

80.0 dBuV/m



Date of Test	September 02, 2004	Temperature	24 deg/C
EUT	Wireless LAN USB Adapter	Humidity	60 %RH
Working Cond.	Mode 1 (802.11b) Channel 1	Data Rate	11Mbps
Antenna distance	3m at Horizontal	Frequency Range	Above 1GHz

Peak

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4824.00	63.16	0.68	63.84	74.00	-10.16
2	7228.00	51.48	7.31	58.79	74.00	-15.21
3	9648.00	55.06	7.67	62.73	74.00	-11.27
4	12059.80	40.03	13.88	< 53.91	74.00	-20.09
5	14472.00	47.57	19.45	< 67.02	74.00	-6.98
6	16884.00	47.13	11.23	< 58.36	74.00	-15.64

Average

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4822.10	46.48	0.66	47.14	54.00	-6.86
2	7234.40	37.93	7.33	45.26	54.00	-8.74
3	9647.98	44.54	7.67	52.21	54.00	-1.79
4	12060.00	31.75	13.88	< 45.63	54.00	-8.37
5	14472.00	29.03	19.45	< 48.48	54.00	-5.52
6	16884.00	33.77	11.23	< 45.00	54.00	-9.00

Remark

- All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz, Span=100MHz.
- Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
- Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
- Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
- Margin Value=Emission level-Limit value.
- The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.

Date of Test	September 02, 2004	Temperature	24 deg/C
EUT	Wireless LAN USB Adapter	Humidity	60 %RH
Working Cond.	Mode 1 (802.11b) Channel 1	Data Rate	11Mbps
Antenna distance	3m at Vertical	Frequency Range	Above 1GHz

Peak

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4824.00	57.83	1.89	59.72	74.00	-14.28
2	7231.60	48.70	7.92	56.62	74.00	-17.38
3	9647.80	48.95	9.64	58.59	74.00	-15.41
4	12059.80	44.96	13.45	< 58.41	74.00	-15.59
5	14472.00	45.88	21.14	< 67.02	74.00	-6.98
6	16884.00	46.87	12.46	< 59.33	74.00	-14.67

Average

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4822.20	45.64	1.87	47.51	54.00	-6.49
2	7233.90	35.90	7.92	43.82	54.00	-10.18
3	9647.90	41.84	9.64	51.48	54.00	2.52
4	12060.10	31.92	13.45	< 45.37	54.00	-8.63
5	14472.10	26.31	21.14	< 47.45	54.00	-6.55
6	16884.10	34.14	12.46	< 46.60	54.00	-7.40

Remark

- All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz, Span=100MHz.
- Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
- Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
- Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
- Margin Value=Emission level-Limit value.
- The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.

Date of Test	September 02, 2004	Temperature	24 deg/C
EUT	Wireless LAN USB Adapter	Humidity	60 %RH
Working Cond.	Mode 1 (802.11b) Channel 6	Data Rate	11Mbps
Antenna distance	3m at Horizontal	Frequency Range	Above 1GHz

Peak

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4874.00	54.32	1.02	55.34	74.00	-18.66
2	7307.70	46.29	7.59	53.88	74.00	-20.12
3	9748.00	48.60	8.13	56.73	74.00	-17.27
4	12180.00	44.17	13.47	< 57.64	74.00	-16.36
5	14616.00	45.04	18.51	< 63.55	74.00	-10.45
6	17052.00	46.14	12.22	<58.36	74.00	-15.64

Average

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4872.10	40.78	1.01	41.79	54.00	-12.21
2	7310.50	33.65	7.60	41.25	54.00	-12.75
3	9748.10	39.86	8.13	47.99	54.00	-6.01
4	12180.00	31.88	13.47	< 45.35	54.00	-8.65
5	14616.00	32.03	18.51	< 50.54	54.00	-3.46
6	17052.00	33.52	12.22	< 45.74	54.00	-8.26

Remark

- All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz, Span=100MHz.
- Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
- Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
- Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
- Margin Value=Emission level-Limit value.
- The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.

Date of Test	September 02, 2004	Temperature	24 deg/C
EUT	Wireless LAN USB Adapter	Humidity	60 %RH
Working Cond.	Mode 1 (802.11b) Channel 6	Data Rate	11Mbps
Antenna distance	3m at Vertical	Frequency Range	Above 1GHz

Peak

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4784.00	58.05	2.26	60.31	74.00	-13.69
2	7309.60	46.55	8.10	54.65	74.00	-19.35
3	9748.00	47.47	9.87	57.34	74.00	-16.66
4	12180.00	44.54	13.43	< 57.97	74.00	-16.03
5	14616.00	45.21	19.81	< 65.02	74.00	-8.98
6	17052.00	46.09	12.73	< 58.82	74.00	-15.18

Average

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4872.10	45.53	2.24	47.67	54.00	-6.33
2	7308.20	33.91	8.10	42.01	54.00	-11.99
3	9748.00	40.32	9.87	50.19	54.00	-3.81
4	12180.00	32.41	13.43	< 45.84	54.00	-8.16
5	14616.00	30.25	19.81	< 50.06	54.00	-3.94
6	17052.00	33.57	12.73	< 46.30	54.00	-7.70

Remark

- All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz, Span=100MHz.
- Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
- Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
- Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
- Margin Value=Emission level-Limit value.
- The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.

Date of Test	September 02, 2004	Temperature	24 deg/C
EUT	Wireless LAN USB Adapter	Humidity	60 %RH
Working Cond.	Mode 1 (802.11b) Channel 11	Data Rate	11Mbps
Antenna distance	3m at Horizontal	Frequency Range	Above 1GHz

Peak

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4924.20	53.33	1.37	54.70	74.00	-19.30
2	7375.00	47.21	7.82	55.02	74.00	-18.98
3	9848.20	48.49	8.78	57.27	74.00	-16.73
4	12310.20	43.88	13.14	< 57.02	74.00	-16.98
5	14772.20	44.61	17.39	< 62.00	74.00	-12.00
6	17234.20	46.23	14.50	< 60.73	74.00	-13.27

Average

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4922.00	41.17	1.35	42.52	54.00	-11.48
2	7383.90	33.71	7.85	41.56	54.00	-12.44
3	9848.00	40.18	8.78	48.96	54.00	-5.04
4	12310.00	31.66	13.14	< 44.80	54.00	-9.20
5	14772.00	32.36	17.40	< 49.76	54.00	-4.24
6	17234.00	33.40	14.50	< 47.90	54.00	-6.10

Remark

- All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz, Span=100MHz.
- Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
- Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
- Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
- Margin Value=Emission level-Limit value.
- The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.

Date of Test	September 02, 2004	Temperature	24 deg/C
EUT	Wireless LAN USB Adapter	Humidity	60 %RH
Working Cond.	Mode 1 (802.11b) Channel 11	Data Rate	11Mbps
Antenna distance	3m at Vertical	Frequency Range	Above 1GHz

Peak

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4924.00	58.02	2.62	60.64	74.00	-13.36
2	7386.60	45.91	8.29	54.20	74.00	-19.80
3	9847.80	48.43	10.28	58.71	74.00	-15.29
4	12309.80	45.35	13.53	< 58.88	74.00	-15.12
5	14771.80	44.81	18.24	< 63.05	74.00	-10.95
6	17233.80	45.96	14.70	< 60.66	74.00	-13.34

Average

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4922.00	45.50	2.61	48.11	54.00	-5.89
2	7386.00	33.90	8.29	42.19	54.00	-11.81
3	9847.90	40.26	10.28	50.54	54.00	-3.46
4	12310.00	31.86	13.53	< 45.39	54.00	-8.61
5	14772.00	32.35	18.24	< 50.59	54.00	-3.41
6	17234.00	33.33	14.70	< 48.03	54.00	-5.97

Remark

- All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz, Span=100MHz.
- Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
- Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
- Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
- Margin Value=Emission level-Limit value.
- The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.

Date of Test	September 02, 2004	Temperature	24 deg/C
EUT	Wireless LAN USB Adapter	Humidity	60 %RH
Working Cond.	Mode 2 (802.11g) Channel 1	Data Rate	54Mbps
Antenna distance	3m at Horizontal	Frequency Range	Above 1GHz

Peak

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4818.40	49.53	0.64	50.17	74.00	-23.83
2	7236.00	46.94	7.34	54.28	74.00	-19.72
3	9647.60	45.92	7.67	53.59	74.00	-20.41
4	12059.60	43.84	13.88	< 57.72	74.00	-16.28
5	14471.80	46.21	19.45	< 65.66	74.00	-8.34
6	16883.80	47.40	11.23	< 58.63	74.00	-15.37

Average

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4823.90	35.74	0.68	36.42	54.00	-17.58
2	7236.00	33.35	7.34	40.69	54.00	-13.31
3	9648.00	32.15	7.67	39.82	54.00	-14.18
4	12060.00	31.88	13.88	< 45.76	54.00	-8.24
5	14472.00	32.30	19.45	< 51.75	54.00	-2.25
6	16884.00	33.82	11.23	< 45.05	54.00	-8.95

Remark

- All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz, Span=100MHz.
- Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
- Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
- Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
- Margin Value=Emission level-Limit value.
- The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.

Date of Test	September 02, 2004	Temperature	24 deg/C
EUT	Wireless LAN USB Adapter	Humidity	60 %RH
Working Cond.	Mode 2 (802.11g) Channel 1	Data Rate	54Mbps
Antenna distance	3m at Vertical	Frequency Range	Above 1GHz

Peak

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4818.20	52.64	1.84	54.48	74.00	-19.52
2	7236.00	45.95	7.93	53.88	74.00	-20.12
3	9648.20	45.37	9.65	55.02	74.00	-18.98
4	12060.20	44.60	13.45	< 58.05	74.00	-15.95
5	14472.20	46.01	21.14	< 67.15	74.00	-6.85
6	16884.00	45.92	12.46	< 58.38	74.00	-15.62

Average

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4823.50	39.38	1.88	41.26	54.00	-12.74
2	7236.20	33.47	7.93	41.40	54.00	-12.60
3	9648.00	32.13	9.65	41.78	54.00	-12.22
4	12060.00	31.81	13.45	< 45.26	54.00	-8.74
5	14472.00	30.27	21.14	< 51.41	54.00	-2.59
6	16884.00	33.74	12.46	< 46.20	54.00	-7.80

Remark

- All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz, Span=100MHz.
- Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
- Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
- Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
- Margin Value=Emission level-Limit value.
- The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.

Date of Test	September 02, 2004	Temperature	24 deg/C
EUT	Wireless LAN USB Adapter	Humidity	60 %RH
Working Cond.	Mode 2 (802.11g) Channel 6	Data Rate	54Mbps
Antenna distance	3m at Horizontal	Frequency Range	Above 1GHz

Peak

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4868.80	49.69	0.99	50.68	74.00	-23.32
2	7308.60	46.26	7.59	53.85	74.00	-20.15
3	9744.60	46.63	8.12	54.75	74.00	-19.25
4	12180.00	45.16	13.47	< 58.63	74.00	-15.37
5	14616.00	45.18	18.51	< 63.69	74.00	-10.31
6	17052.00	46.47	12.22	< 58.69	74.00	-15.31

Average

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4872.20	36.87	1.01	37.88	54.00	-16.12
2	7308.00	32.94	7.59	40.53	54.00	-13.47
3	9744.00	32.84	8.11	40.95	54.00	-13.05
4	12180.00	32.05	13.47	< 45.52	54.00	-8.48
5	14616.00	32.06	18.51	< 50.57	54.00	-3.43
6	17052.00	33.53	12.22	< 45.75	54.00	-8.25

Remark

- All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz, Span=100MHz.
- Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
- Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
- Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
- Margin Value=Emission level-Limit value.
- The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.

Date of Test	September 02, 2004	Temperature	24 deg/C
EUT	Wireless LAN USB Adapter	Humidity	60 %RH
Working Cond.	Mode 2 (802.11g) Channel 6	Data Rate	54Mbps
Antenna distance	3m at Vertical	Frequency Range	Above 1GHz

Peak

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4872.80	53.46	2.25	55.71	74.00	-18.29
2	7304.00	46.65	8.09	54.74	74.00	-19.26
3	9744.60	45.93	9.86	55.79	74.00	-18.21
4	12180.00	44.53	13.43	< 57.96	74.00	-16.04
5	14616.00	45.16	19.81	< 64.97	74.00	-9.03
6	17052.00	46.06	12.73	< 58.79	74.00	-15.21

Average

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4873.40	39.97	2.25	42.22	54.00	-11.78
2	7308.10	32.74	8.10	40.84	54.00	-13.16
3	9744.10	32.38	9.86	42.24	54.00	-11.76
4	12180.10	32.01	13.43	< 45.44	54.00	-8.56
5	14616.10	32.07	19.81	< 51.88	54.00	-2.12
6	17052.10	33.46	12.73	< 46.19	54.00	-7.81

Remark

- All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz, Span=100MHz.
- Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
- Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
- Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
- Margin Value=Emission level-Limit value.
- The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.

Date of Test	September 02, 2004	Temperature	24 deg/C
EUT	Wireless LAN USB Adapter	Humidity	60 %RH
Working Cond.	Mode 2 (802.11g) Channel 11	Data Rate	54Mbps
Antenna distance	3m at Horizontal	Frequency Range	Above 1GHz

Peak

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4931.40	49.60	1.42	51.02	74.00	-22.98
2	7372.60	46.50	7.81	54.31	74.00	-19.69
3	9845.20	46.92	8.76	55.68	74.00	-18.32
4	12310.00	44.25	13.14	< 57.39	74.00	-16.61
5	14775.60	46.63	17.37	< 64.00	74.00	-10.00
6	17234.20	47.01	14.50	< 61.51	74.00	-12.49

Average

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4923.30	36.94	1.36	38.30	54.00	-15.70
2	7386.60	32.77	7.85	40.62	54.00	-13.38
3	9847.50	33.05	8.77	41.82	54.00	-12.18
4	12310.10	32.00	13.14	< 45.14	54.00	-8.86
5	14772.10	32.48	17.40	< 49.88	54.00	-4.12
6	17234.10	33.48	14.50	< 47.98	54.00	-6.02

Remark

- All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz, Span=100MHz.
- Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
- Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
- Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
- Margin Value=Emission level-Limit value.
- The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.

Date of Test	September 02, 2004	Temperature	24 deg/C
EUT	Wireless LAN USB Adapter	Humidity	60 %RH
Working Cond.	Mode 2 (802.11g) Channel 11	Data Rate	54Mbps
Antenna distance	3m at Vertical	Frequency Range	Above 1GHz

Peak

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4918.40	53.68	2.58	56.26	74.00	-17.74
2	7375.20	46.15	8.26	54.41	74.00	-19.59
3	9839.80	46.94	10.25	57.19	74.00	-16.81
4	12310.00	44.34	13.53	< 57.87	74.00	-16.13
5	14772.00	45.09	18.24	< 63.33	74.00	-10.67
6	17234.00	46.40	14.70	< 61.10	74.00	-12.90

Average

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]
1	4923.70	40.12	2.62	42.74	54.00	-11.26
2	7386.00	32.74	8.29	41.03	54.00	-12.97
3	9841.60	33.38	10.25	43.63	54.00	-10.37
4	12310.10	31.87	13.53	< 45.40	54.00	-8.60
5	14772.10	32.40	18.24	< 50.64	54.00	-3.36
6	17234.10	33.50	14.70	< 48.20	54.00	-5.80

Remark

- All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHz, Span=100MHz.
- Spectrum Analyzer Setting(AVG Detector): RBW=1MHz, VBW=30HZ, Span=20MHz.
- Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
- Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor
- Margin Value=Emission level-Limit value.
- The average measurement was not performed when the peak measured data under the limit of average detection. If the average value is measured, peak measurement should also be supplied.

5. PEAK POWER OUTPUT

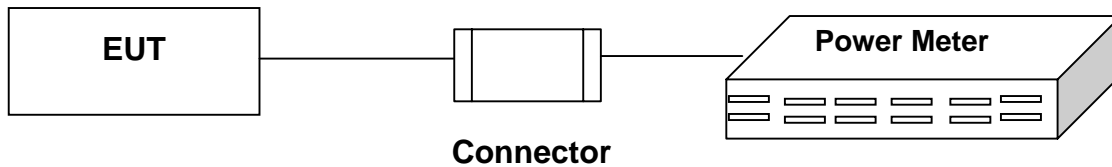
5.1 TEST EQUIPMENT

The following test equipments are used during the Conduct tests:

Item	Instrument	Manufacturer	Model	Serial No.	Last Cal.
1	Spectrum Analyzer	Advantest	R3272	82420232	02/11/04
	Spectrum Analyzer	HP	E4407B	39240339	07/28/04
2	Power Meter	Rohde & Schwarz	NRVS	100666	04/29/04
3	Peak Power Sensor	Rohde & Schwarz	NRV-Z32	8360191058	04/29/04

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

5.2 BLOCK DIAGRAM OF TEST SETUP



5.3 PEAK POWER OUTPUT LIMIT

The maximum peak power shall be less 1 Watt.

5.4 TEST RESULT

Date of Test	September 03, 2004
EUT	Wireless LAN USB Adapter
Test Mode	Mode 1 (802.11b)

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit	Result
1	2412	20.57	1W(30dBm)	Pass
6	2437	20.45	1W(30dBm)	Pass
11	2468	19.94	1W(30dBm)	Pass

Date of Test	September 03, 2004
EUT	Wireless LAN USB Adapter
Test Mode	Mode 2 (802.11g)

Channel No.	Frequency (MHz)	Measurement (dBm)	Required Limit	Result
1	2412	20.45	1W(30dBm)	Pass
6	2437	20.18	1W(30dBm)	Pass
11	2468	19.55	1W(30dBm)	Pass

6. BAND EDGE

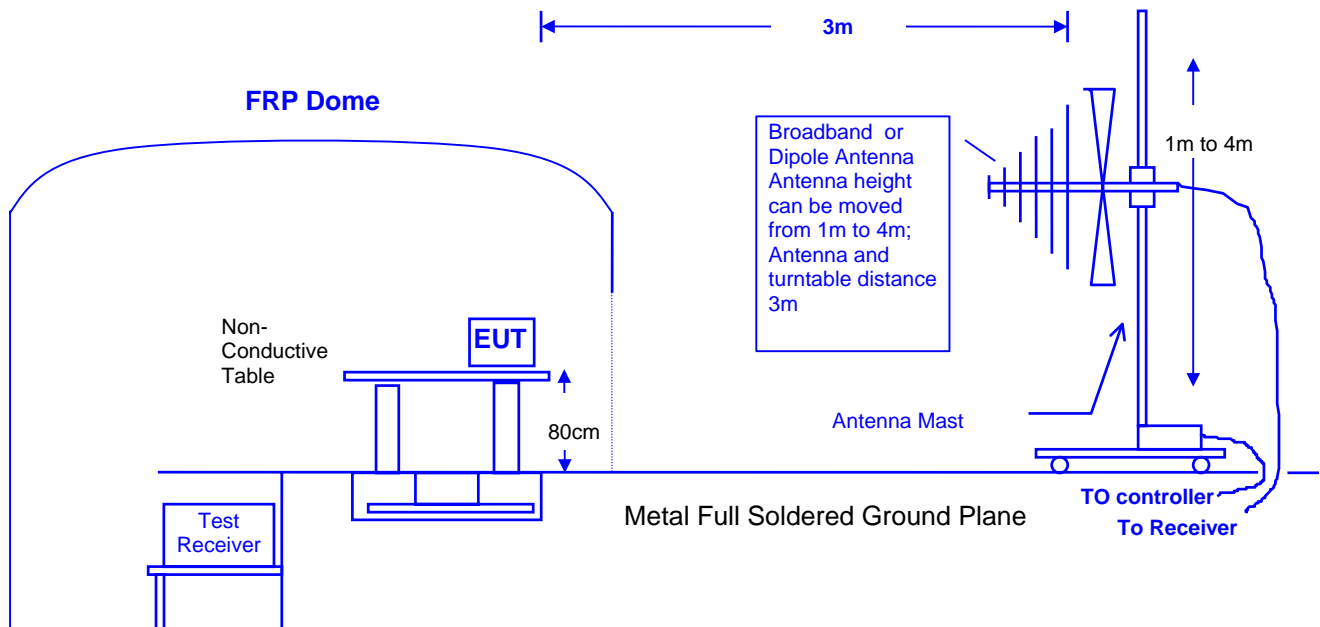
6.1 TEST EQUIPMENT

Item	Instrument	Manufacturer	Model	Serial No.	Last Cal.
1	Test Receiver	Rohde & Schwarz	ESVS30	829007/014	12/13/03
2	Spectrum Analyzer	Rohde & Schwarz	FSP40	100061	03/16/04
3	Spectrum Analyzer	HP	E4407B	39240339	07/28/04
4	Power Meter	Rohde & Schwarz	NRVS	100666	04/29/04
5	Peak Power Sensor	Rohde & Schwarz	NRV-Z32	8360191058	04/29/04
6	Pre-Amplifier	HP	8449B	3008A01263	10/11/03
7	BILOG ANTENNA	SCHAFFNER	CBL6112B	2620	12/01/03
8	Horn Antenna	Electro-Metrics	EM-6961	103318	02/19/04
9	Horn Antenna	Schwarzbeck	BBHA 9120	D243	12/18/03
10	RF Cable	GesTek	N/A	GTK-E-A151-01	02/09/04
11	Open Site	GesTek	N/A	B1	11/25/03
12	Test Program Software	GesTek	N/A	GTK-E-S001-01	N/A

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

6.2 BLOCK DIAGRAM OF TEST SETUP

⊙ RF Radiated Measurement: ⊙



6.3 BAND EDGE LIMIT

In any 100KHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100KHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209 (a) (see Section 15.205(c)).

6.4 EUT CONFIGURATION

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 C63.4:2000 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter is 120KHz, above 1GHz are 1MHz.

6.5 OPERATING CONDITION OF EUT

Same as section 2.7.

6.6 TEST RESULT

Date of Test	September 03, 2004	Temperature	23.4 deg/C
EUT	Wireless LAN USB Adapter	Humidity	58 %RH
Test Mode	Mode 1 (80211 b)	Data Rate	11Mbps

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

Horizontal

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]
1	2408.24	94.35	-2.86	91.49
2	2400.08	56.39	-2.93	53.46
3	2397.20	61.30	-2.96	58.34

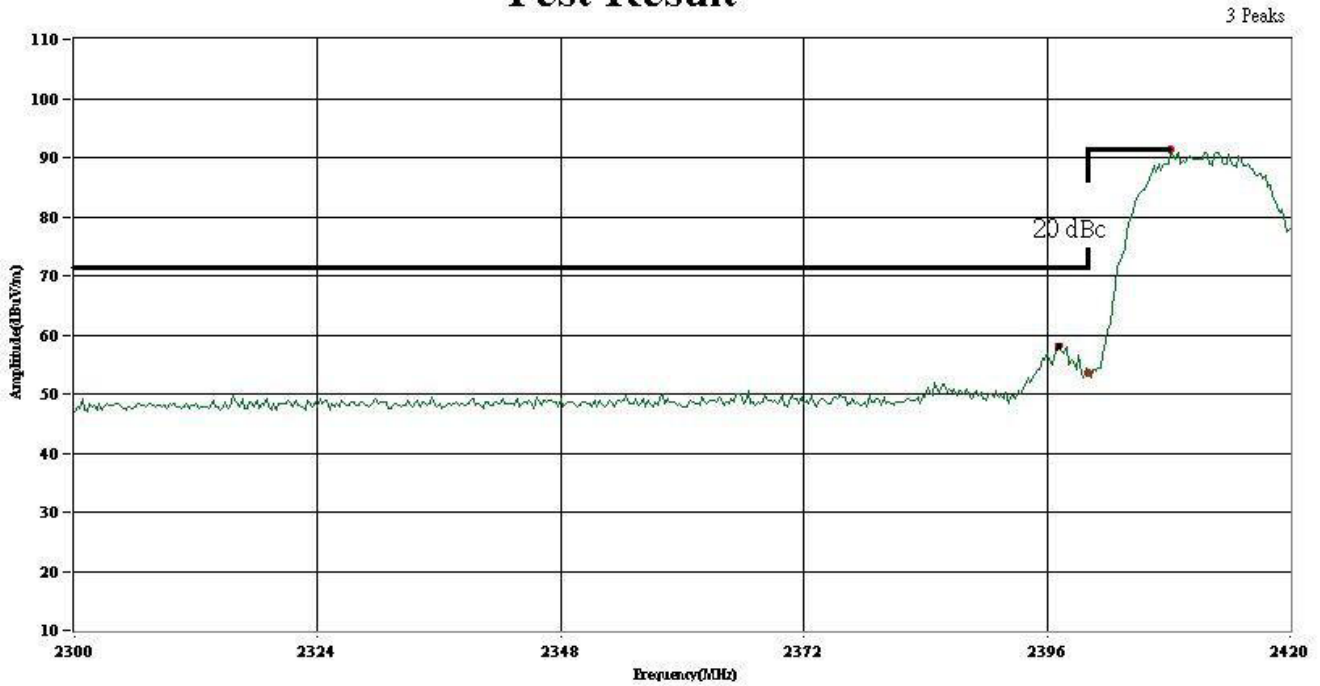
Vertical

No.	Frequency [MHz]	Reading Level [dB(μV)]	Correction Factor [dB/m]	Emission Level [dB(μV/m)]
1	2408.24	105.72	-7.37	98.35
2	2400.08	67.96	-7.42	60.54
3	2397.20	73.16	-7.44	65.72

Note: RBW=100kHz, VBW=100kHz

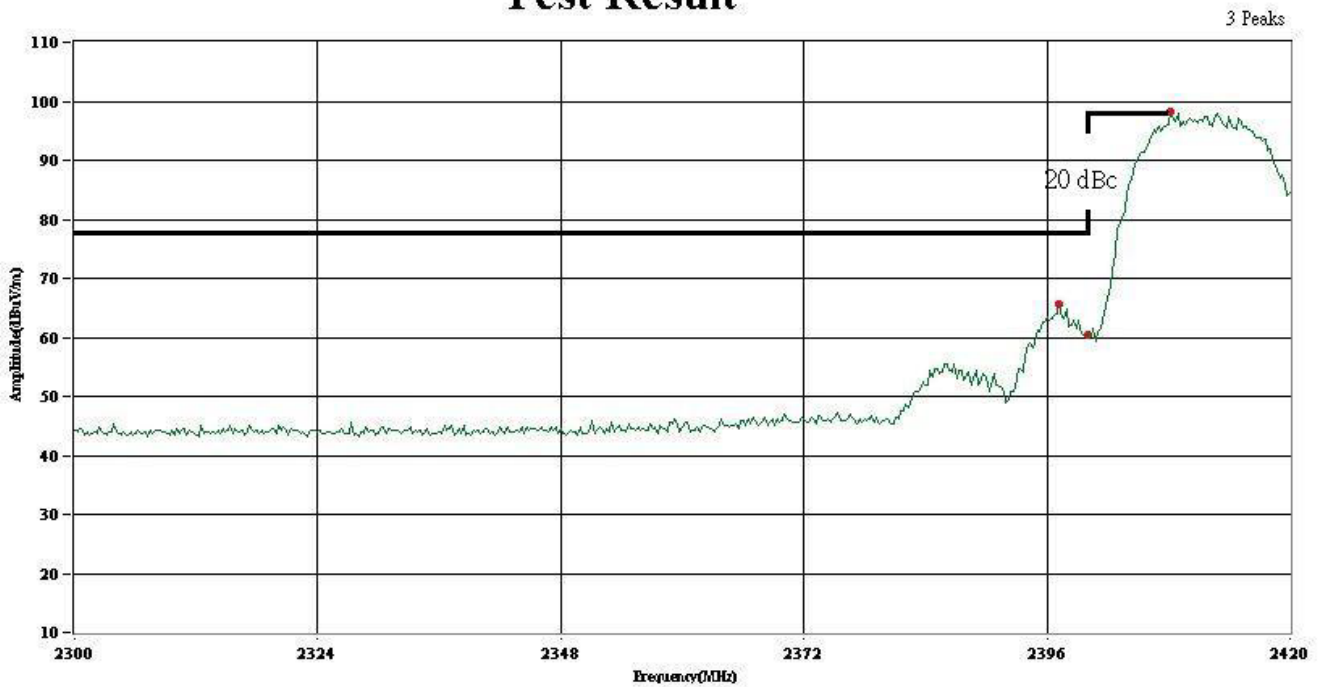
Horizontal

Test Result



Vertical

Test Result



Date of Test	September 03, 2004	Temperature	23.4 deg/C
EUT	Wireless LAN USB Adapter	Humidity	58 %RH
Test Mode	Mode 1 (80211 g)	Data Rate	54Mbps

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

Horizontal

No.	Frequency [MHz]	Reading Level [dB(μ V)]	Correction Factor [dB/m]	Emission Level [dB(μ V/m)]
1	2400.00	58.09	-2.3	55.16
2	2406.50	89.73	-2.87	86.86

Vertical

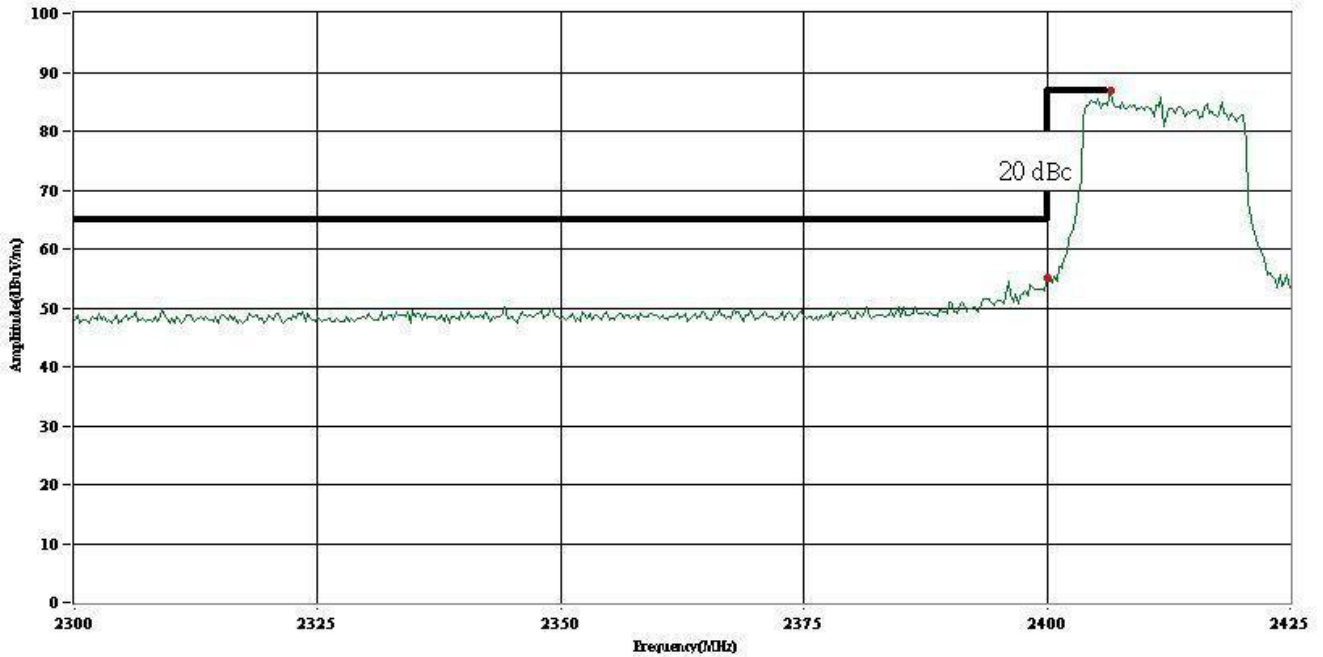
No.	Frequency [MHz]	Reading Level [dB(μ V)]	Correction Factor [dB/m]	Emission Level [dB(μ V/m)]
1	2400.25	69.55	-7.42	62.13
2	2406.50	101.73	-7.38	94.35
3	2398.25	70.34	-7.42	62.91

Note: RBW=100kHz, VBW=100kHz

Horizontal

Test Result

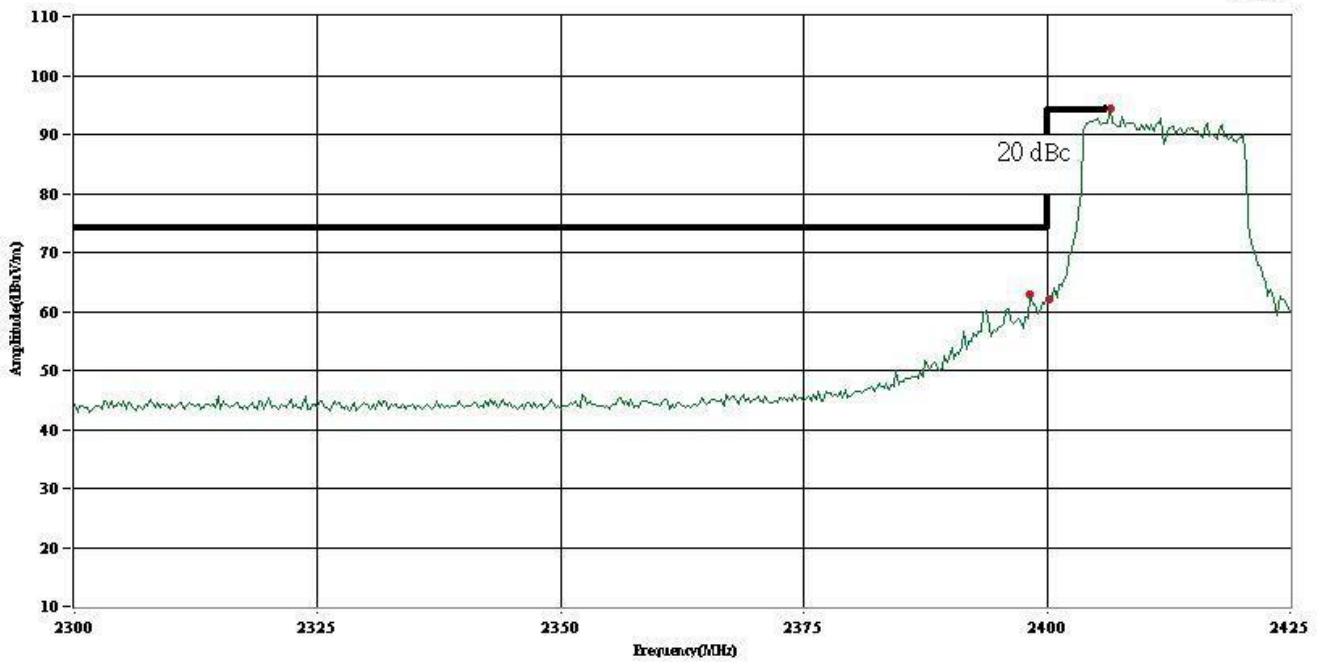
2 Peaks



Vertical

Test Result

3 Peaks



Date of Test	September 03, 2004	Temperature	23.4 deg/C
EUT	Wireless LAN USB Adapter	Humidity	48 %RH
Working Cond.	Mode 1 (802.11b)	Data Rate	11Mbps
Antenna distance	3m at Horizontal		

Radiation Emission of Fundamental

Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2460.00	65.27	34.12	99.39

Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2459.60	57.77	34.11	91.88

Remark:

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ.
3. Average Value= peak value -20log(duty cycle).
4. Emission Level= Reading + Correction Factor (Could have ± 0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor

TEST Result

The band edge emission plot on page 43 show 44.4 dB delta between carry power and maximum emission in restrict band 2487.74 MHz. The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2487.74 MHz is 99.39 dBuV/m – 44.4 dB = 54.99 dBuV/m which is under 74dBuV/m.

Average field strength of 2487.74 MHz is 91.88 dBuV/m – 44.4 dB = 47.48 dBuV/m which is under 54dBuV/m.

Date of Test	September 03, 2004	Temperature	23.4 deg/C
EUT	Wireless LAN USB Adapter	Humidity	48 %RH
Working Cond.	Mode 1 (802.11b)	Data Rate	11Mbps
Antenna distance	3m at Vertical		

Radiation Emission of Fundamental

Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2460.00	76.02	29.45	105.47

Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2459.60	67.91	29.45	97.36

Remark:

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ.
3. Average Value= peak value -20log(duty cycle).
4. Emission Level= Reading + Correction Factor (Could have ± 0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor

TEST Result

The band edge emission plot on page 43 show 44.4 dB delta between carry power and maximum emission in restrict band 2487.743 MHz. The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2487.743MHz is 105.47 dBuV/m – 44.4 dB = 61.07 dBuV/m which is under 74dBuV/m.

Average field strength of 2487.743 MHz is 97.36 dBuV/m – 44.4 dB = 52.96 dBuV/m which is under 54dBuV/m.

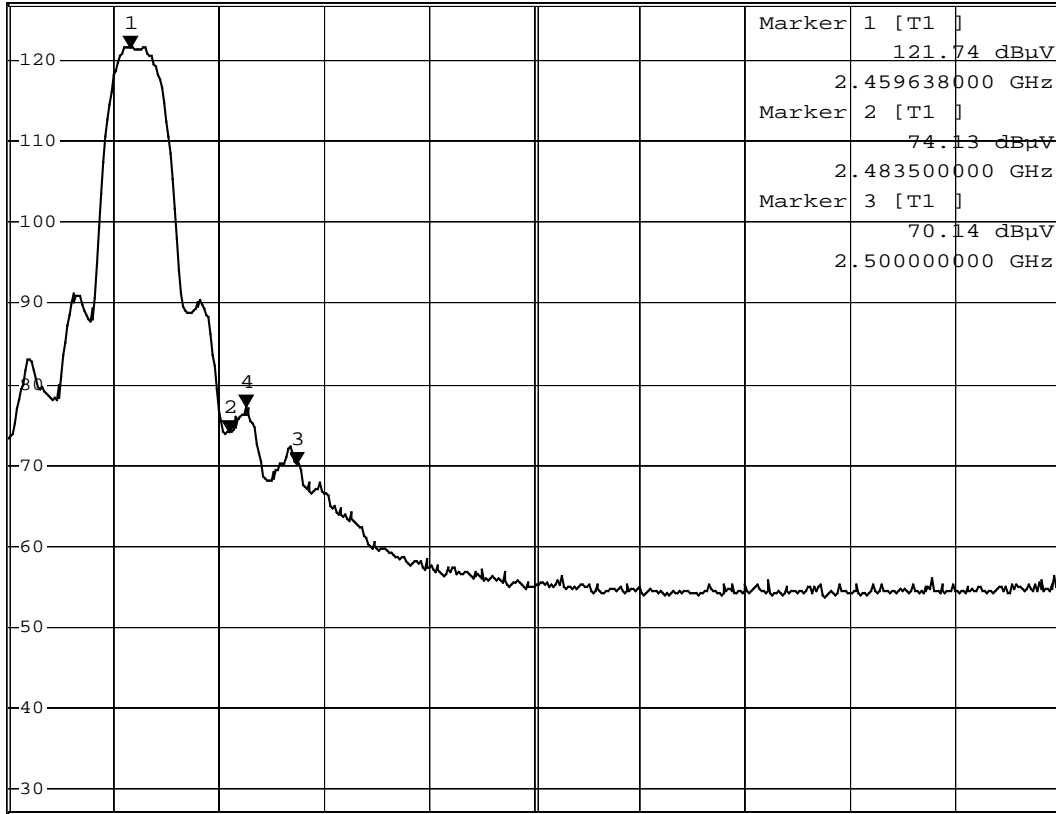


*RBW 1 MHz Marker 4 [T1]
*VBW 1 MHz 77.34 dBuV
*SWT 500 ms 2.487743000 GHz

Ref 127 dBuV

*Att 30 dB

1 PK
VIEW



Center 2.55775 GHz 25.55 MHz/ Span 255.5 MHz

Date: 7.SEP.2004 14:32:11

Date of Test	September 03, 2004	Temperature	23.4 deg/C
EUT	Wireless LAN USB Adapter	Humidity	48 %RH
Working Cond.	Mode 2 (802.11g)	Data Rate	54Mbps
Antenna distance	3m at Horizontal		

Radiation Emission of Fundamental

Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2456.20	62.97	34.08	97.05

Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2455.20	52.47	34.08	86.55

Remark:

- All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
- Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ.
- Average Value= peak value -20log(duty cycle).
- Emission Level= Reading + Correction Factor (Could have ±0.01 tolerance due to computer automatically round off calculation).
- Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor

TEST Result

The band edge emission plot on page 46 show 39.22 dB delta between carry power and maximum emission in restrict band 2483.5 MHz. The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2483.5 MHz is 97.05 dBuV/m – 39.22 dB = 57.83 dBuV/m which is under 74dBuV/m.

Average field strength of 2483.5 MHz is 86.55 dBuV/m – 39.22 dB = 47.33 dBuV/m which is under 54dBuV/m.

Date of Test	September 03, 2004	Temperature	23.4 deg/C
EUT	Wireless LAN USB Adapter	Humidity	48 %RH
Working Cond.	Mode 2 (802.11g)	Data Rate	54Mbps
Antenna distance	3m at Vertical		

Radiation Emission of Fundamental

Peak

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2455.25	74.23	29.42	103.65

Average

Frequency [MHz]	Reading Level [dB(uV)]	Correction Factor [dB/m]	Emission Level [dB(uV/m)]
2455.80	62.77	29.42	92.19

Remark:

1. All Readings below 1GHz are Quasi-Peak and above 1GHz are peak or average.
2. Spectrum Analyzer Setting(Peak Detector): RBW=1MHz, VBW=1MHZ.
3. Average Value= peak value -20log(duty cycle).
4. Emission Level= Reading + Correction Factor (Could have ± 0.01 tolerance due to computer automatically round off calculation).
5. Correction Factor= Antenna Factor + Cable Loss – Amplifier Factor

TEST Result

The band edge emission plot on page 46 show 39.22 dB delta between carry power and maximum emission in restrict band 2483.5 MHz. The above tables are list of fundamental emission test result.

Therefore, peak field strength of 2483.5MHz is 103.65 dBuV/m – 39.22 dB = 64.43 dBuV/m which is under 74dBuV/m.

Average field strength of 2483.5 MHz is 92.19 dBuV/m – 39.22 dB = 52.97 dBuV/m which is under 54dBuV/m.



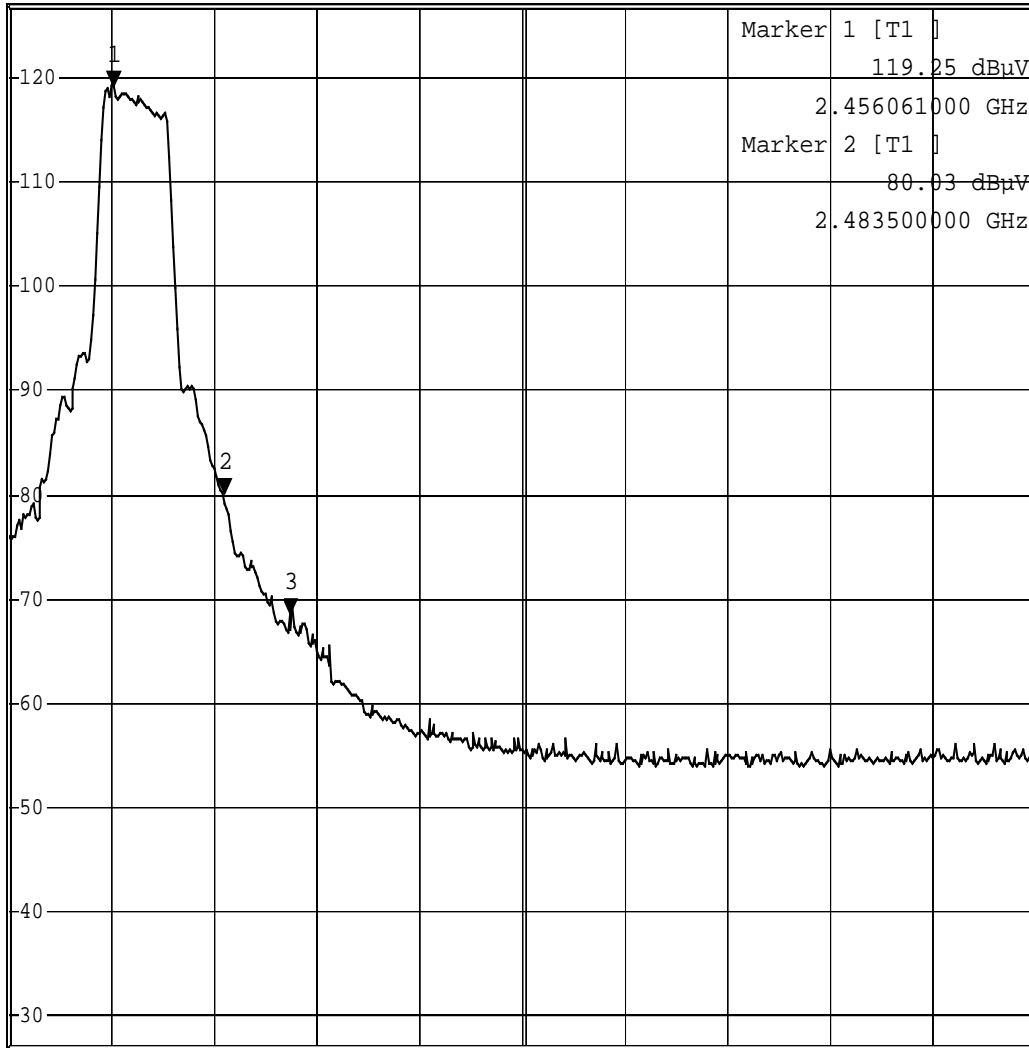
*RBW 1 MHz Marker 3 [T1]
*VBW 1 MHz 68.50 dBμV
*SWT 500 ms 2.50000000 GHz

Ref 127 dBμV

*Att 30 dB

2.50000000 GHz

1 PK VIEW



Center 2.55775 GHz

25.55 MHz/

Span 255.5 MHz

Date: 7.SEP.2004 14:30:46

7. OCCUPIED BANDWIDTH

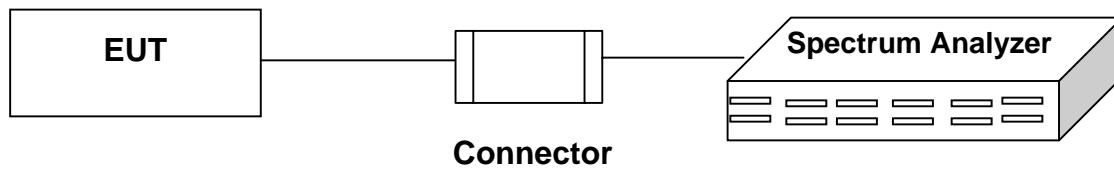
7.1 TEST EQUIPMENT

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

Item	Instrument	Manufacturer	Model	Serial No.	Last Cal.
1	Spectrum Analyzer	Rohde & Schwarz	FSP40	100061	03/16/04
2	Spectrum Analyzer	HP	E4407B	39240339	07/28/04

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

7.2 BLOCK DIAGRAM OF TEST SETUP



7.3 LIMIT

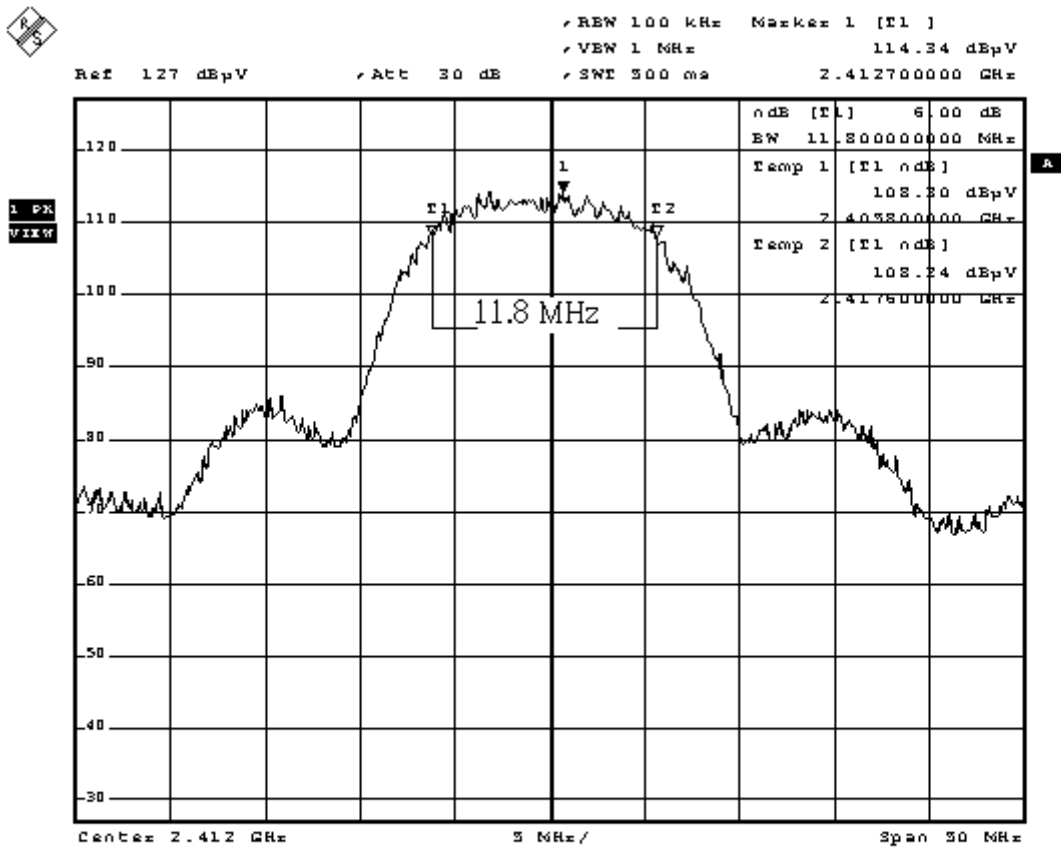
WLAN: The minimum 6dB bandwidth shall be at least 500KHz.

7.4 TEST RESULT

Date of Test	September 09, 2004	Temperature	24 deg/C
EUT	Wireless LAN USB Adapter	Humidity	60 %RH
Working Cond.	Mode 1	Data Rate	11Mbps

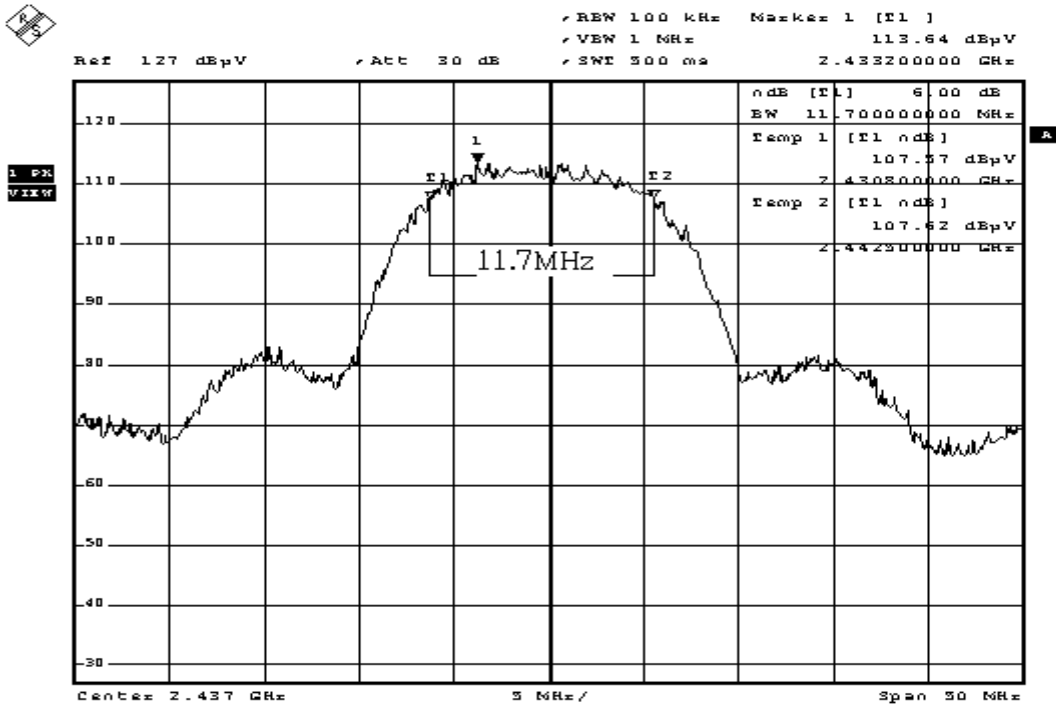
Channel No.	Frequency (MHz)	Bandwidth (MHz)	Required limit (KHz)	Result
1	2412	11.8	>500	Pass
6	2437	11.7	>500	Pass
11	2462	11.7	>500	Pass

Figure Channel 1:



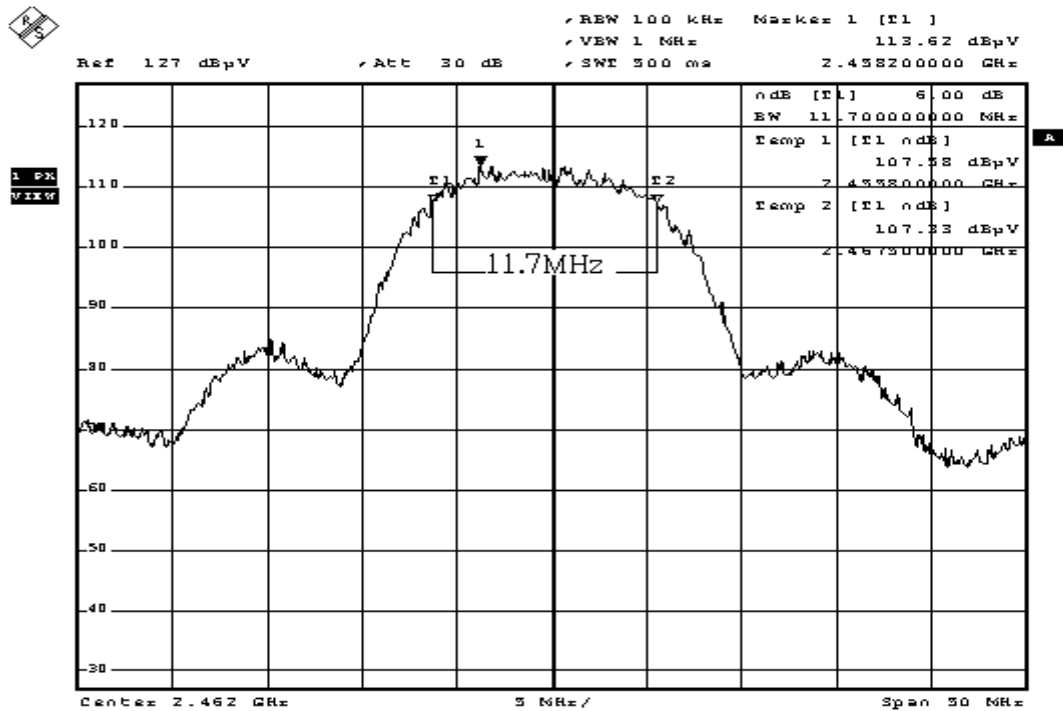
Date: 9.SEP.2004 09:46:16

Figure Channel 6:



Date: 9.SEP.2004 09:48:41

Figure Channel 11:

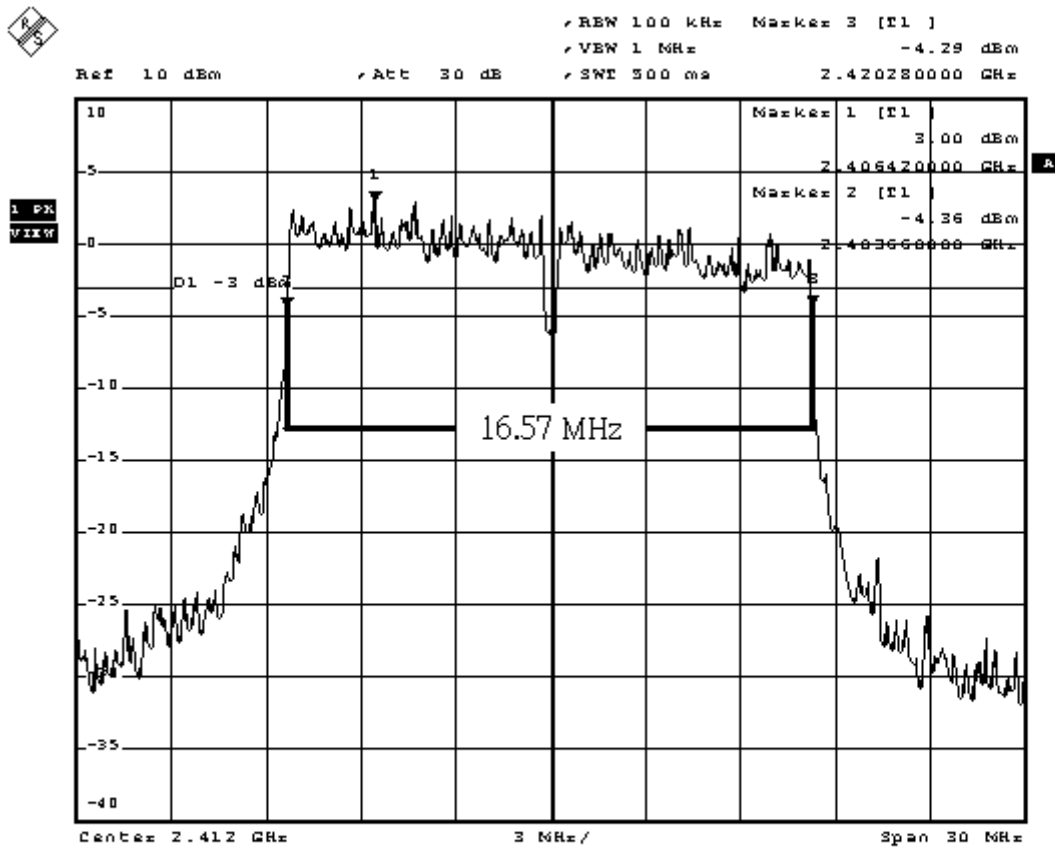


Date: 9.SEP.2004 09:50:50

Date of Test	September 09, 2004	Temperature	24 deg/C
EUT	Wireless LAN USB Adapter	Humidity	60 %RH
Working Cond.	Mode 2	Data Rate	54Mbps

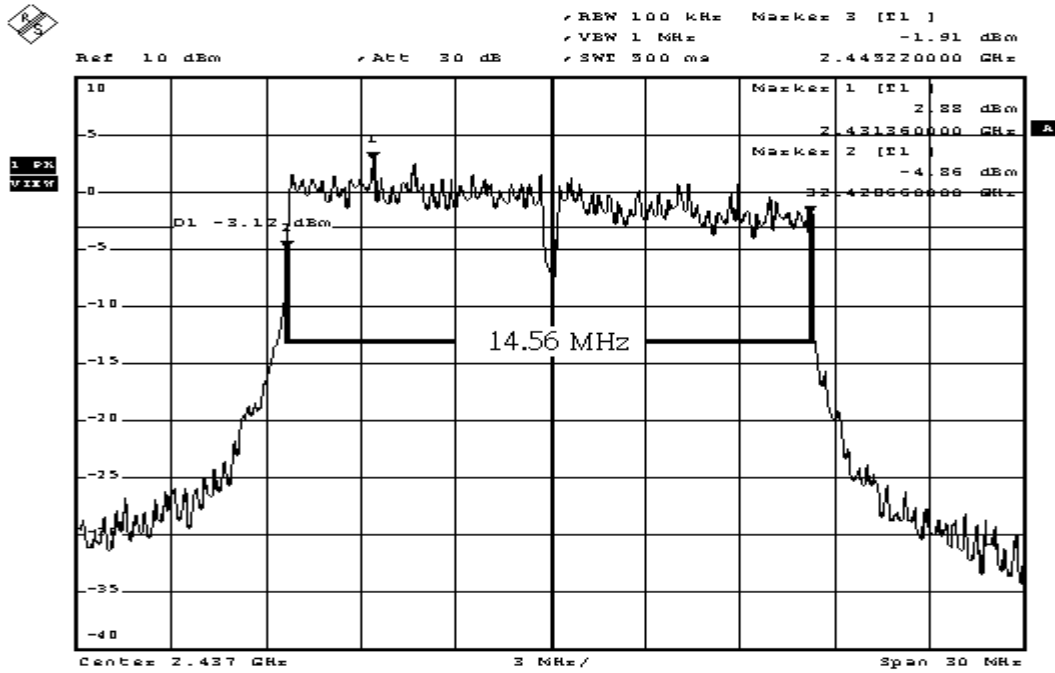
Channel No.	Frequency (MHz)	Bandwidth (MHz)	Required limit (KHz)	Result
1	2412	16.57	>500	Pass
6	2437	14.56	>500	Pass
11	2462	16.56	>500	Pass

Figure Channel 1:



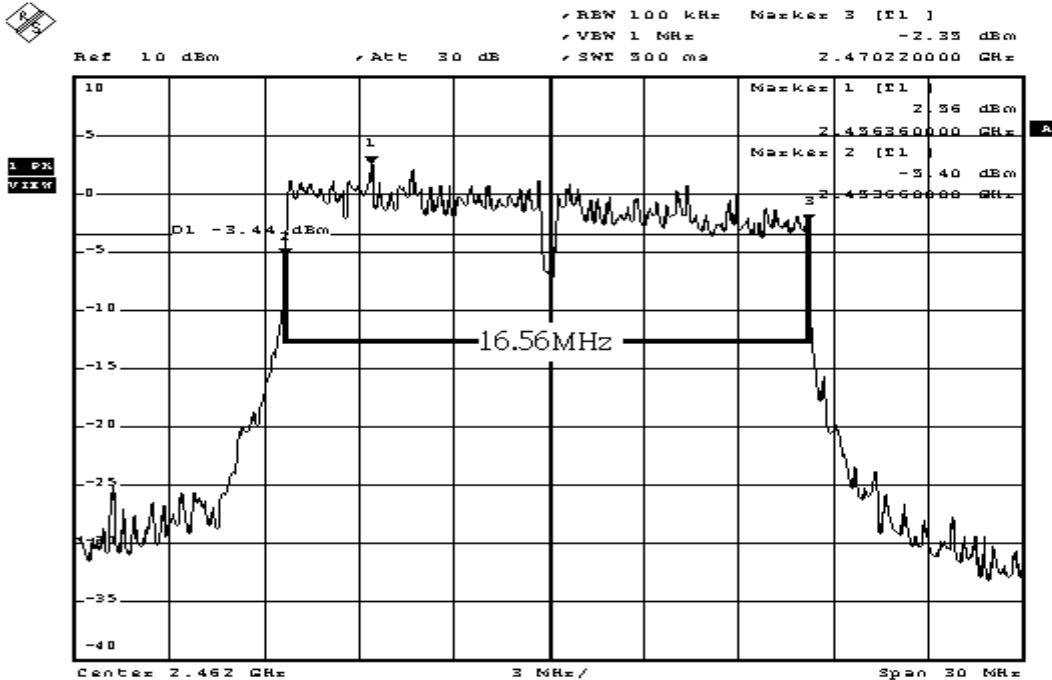
Date: 13.SEP.2004 15:39:18

Figure Channel 6:



Date: 13.SEP.2004 15:41:59

Figure Channel 11:



Date: 13.SEP.2004 15:45:44

8. POWER DENSITY

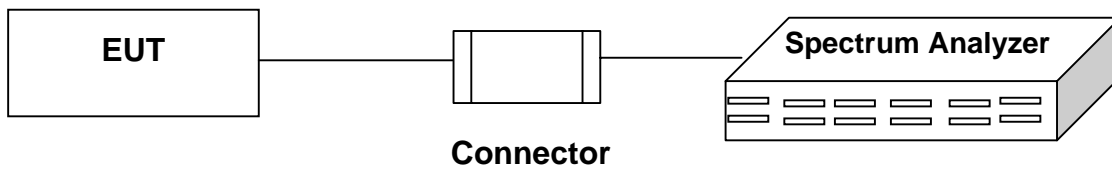
8.1 TEST EQUIPMENT

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

Item	Instrument	Manufacturer	Model	Serial No.	Last Cal.
1	Spectrum Analyzer	Rohde & Schwarz	FSP40	100061	03/16/04
2	Spectrum Analyzer	HP	E4407B	39240339	07/28/04

Note: All measurement critical items of test instrumentation were within their calibration period of 1 year.

8.2 BLOCK DIAGRAM OF TEST SETUP



8.3 LIMIT

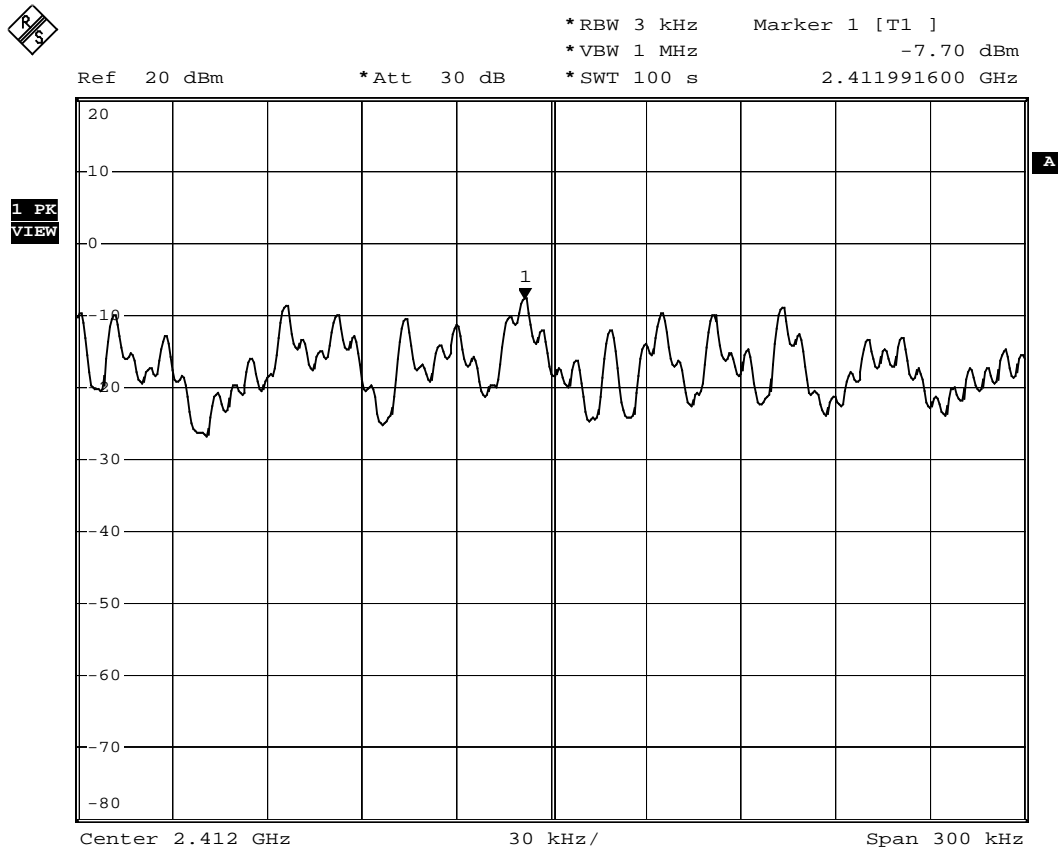
The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3KHz bandwidth.

8.4 TEST RESULT

Date of Test	September 03 2004	Temperature	23.4 deg/C
EUT	Wireless LAN USB Adapter	Humidity	48 %RH
Working Cond.	Mode 1 (802.11b)	Data Rate	11Mbps

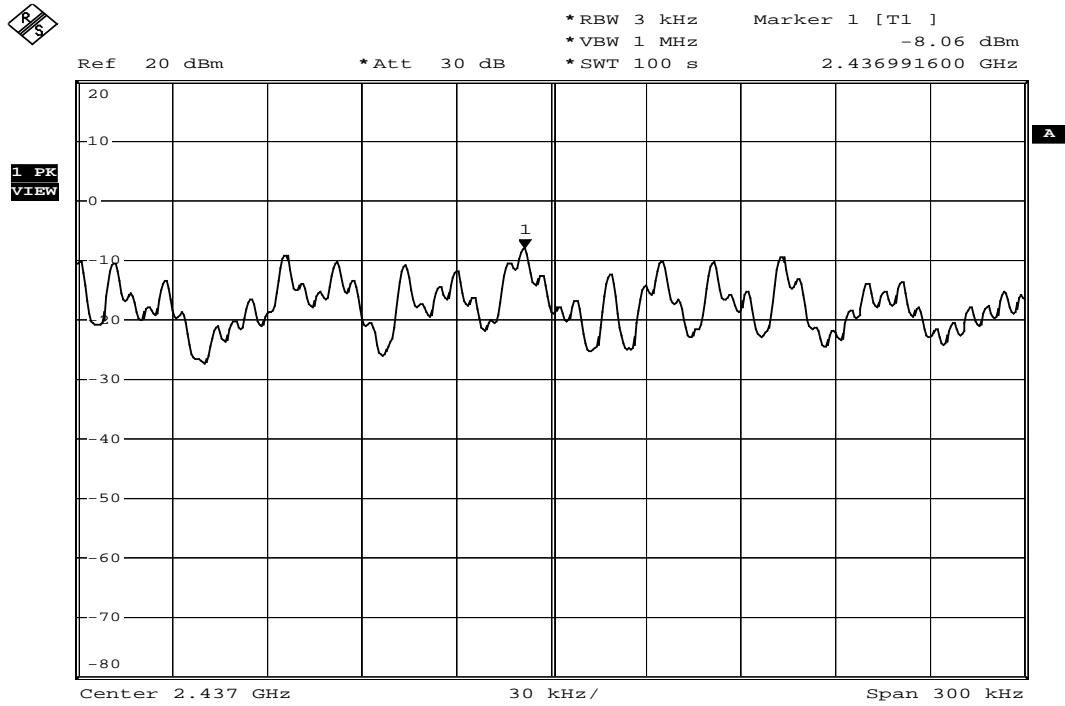
Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required limit (dBm)	Result
1	2412	-7.70	<8dBm	Pass
6	2437	-8.06	<8dBm	Pass
11	2462	-8.49	<8dBm	Pass

Figure Channel 1:



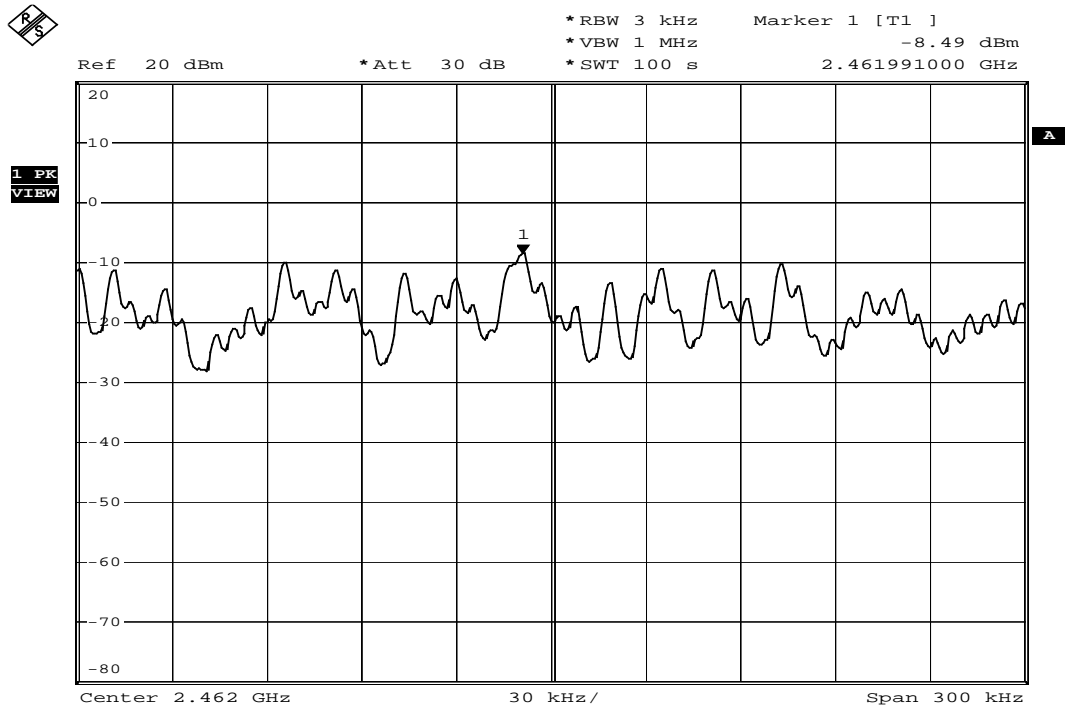
Date: 3.SEP.2004 17:50:51

Figure Channel 6:



Date: 3.SEP.2004 17:46:05

Figure Channel 11:

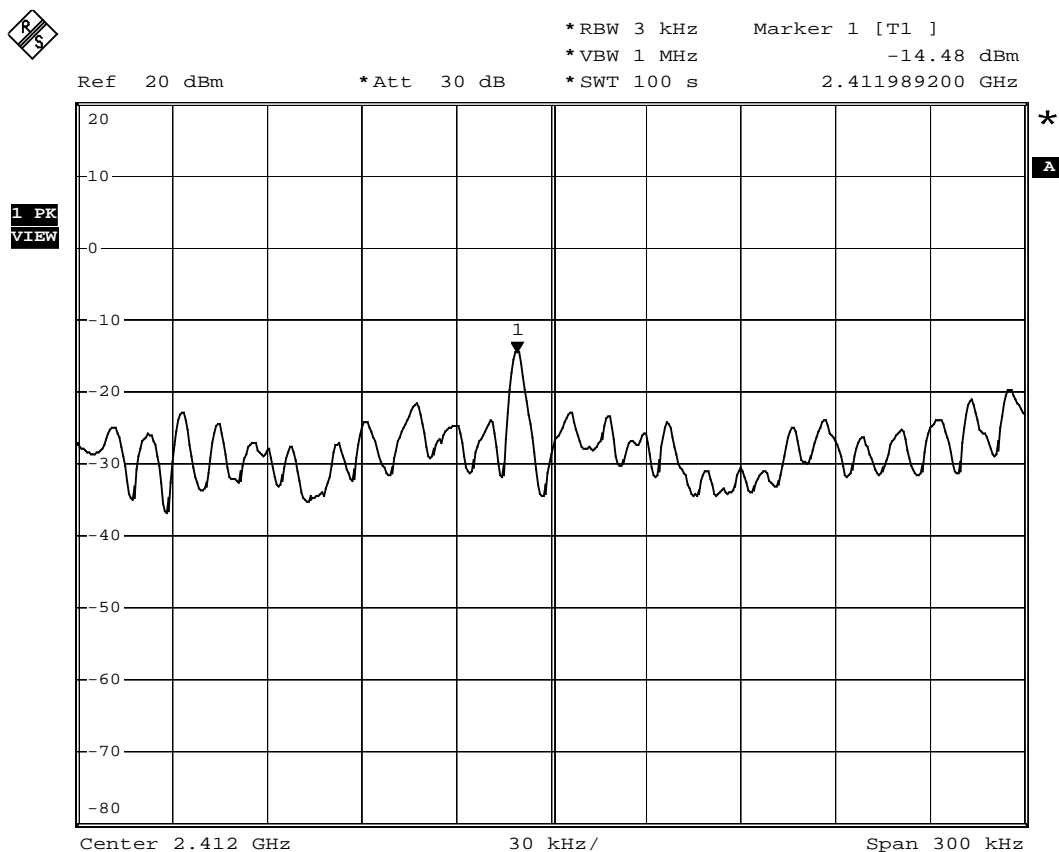


Date: 3.SEP.2004 17:40:58

Date of Test	September 03 2004	Temperature	23.4 deg/C
EUT	Wireless LAN USB Adapter	Humidity	48 %RH
Working Cond.	Mode 1 (802.11g)	Data Rate	11Mbps

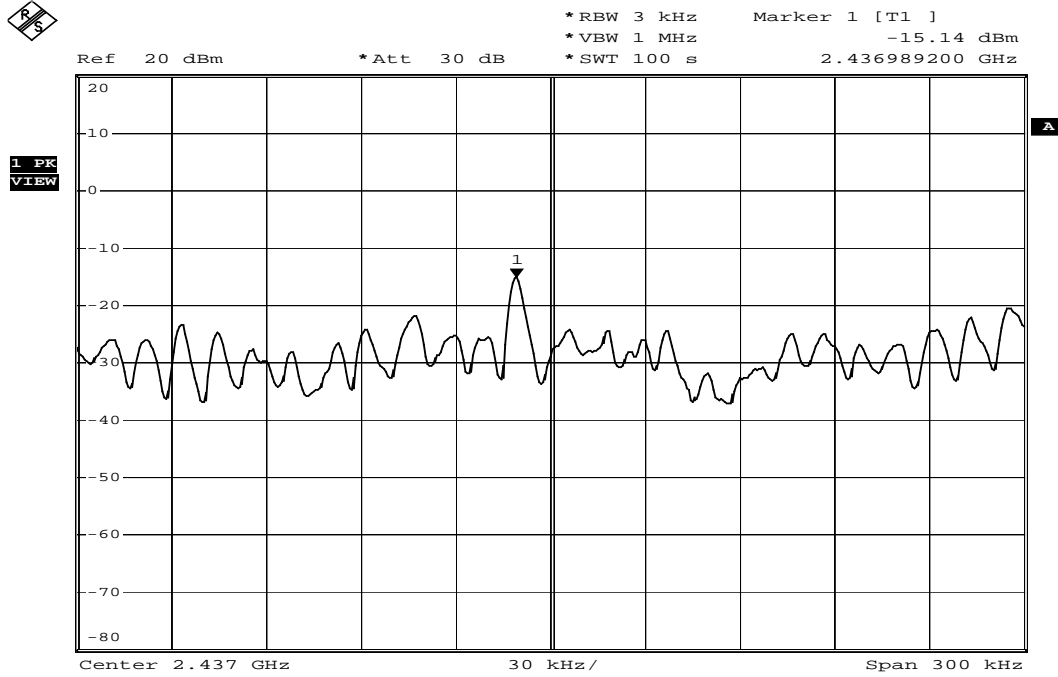
Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required limit (dBm)	Result
1	2412	-14.48	<8dBm	Pass
6	2437	-15.14	<8dBm	Pass
11	2462	-16.24	<8dBm	Pass

Figure Channel 1:



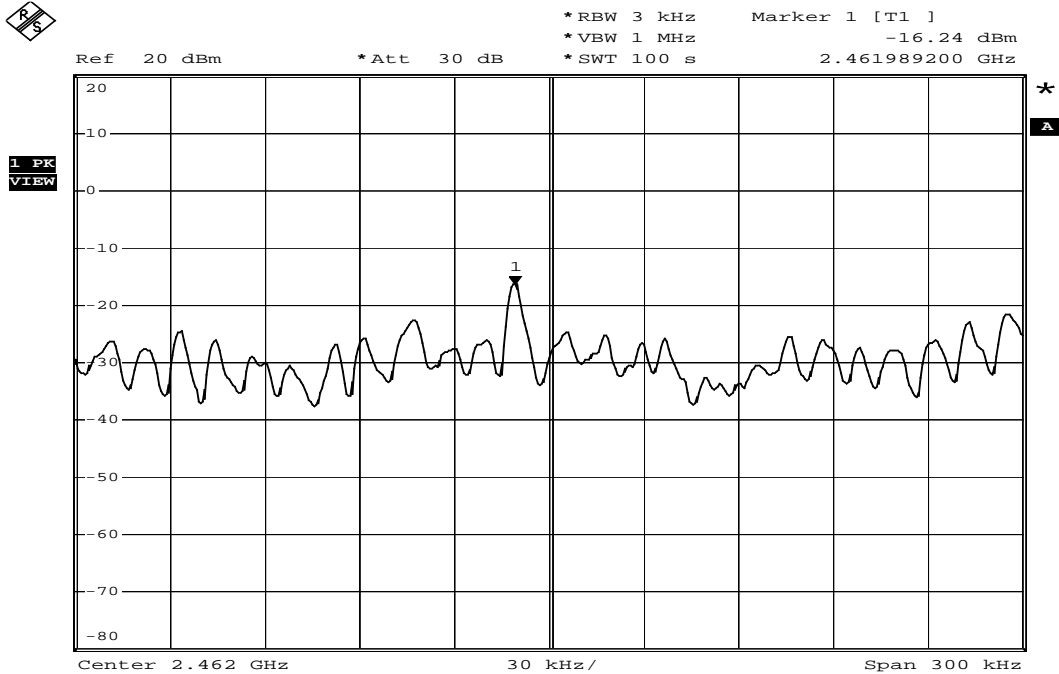
Date: 3.SEP.2004 17:55:01

Figure Channel 6:



Date: 3.SEP.2004 17:59:10

Figure Channel 11:



Date: 3.SEP.2004 18:01:48

9. PHOTOGRAPHS FOR TEST

9.1 TEST PHOTOGRAPHS FOR CONDUCTION



9.2 TEST PHOTOGRAPHS FOR RADIATION

30-1000MHz



Above 1GHz



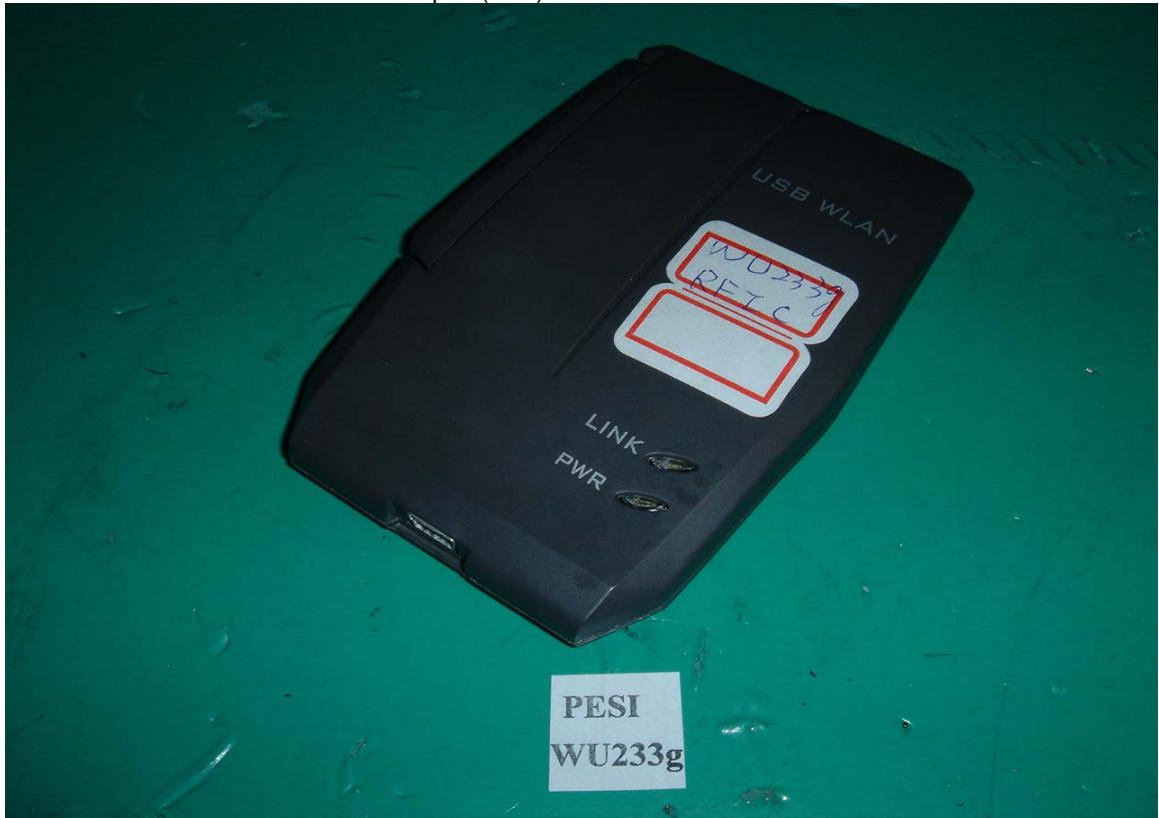
10. PHOTOGRAPHS FOR PRODUCT

1. Front View Of Wireless LAN USB Adapter (EUT)
2. Back View Of Wireless LAN USB Adapter (EUT)



3. Front View Of Wireless LAN USB Adapter (EUT)

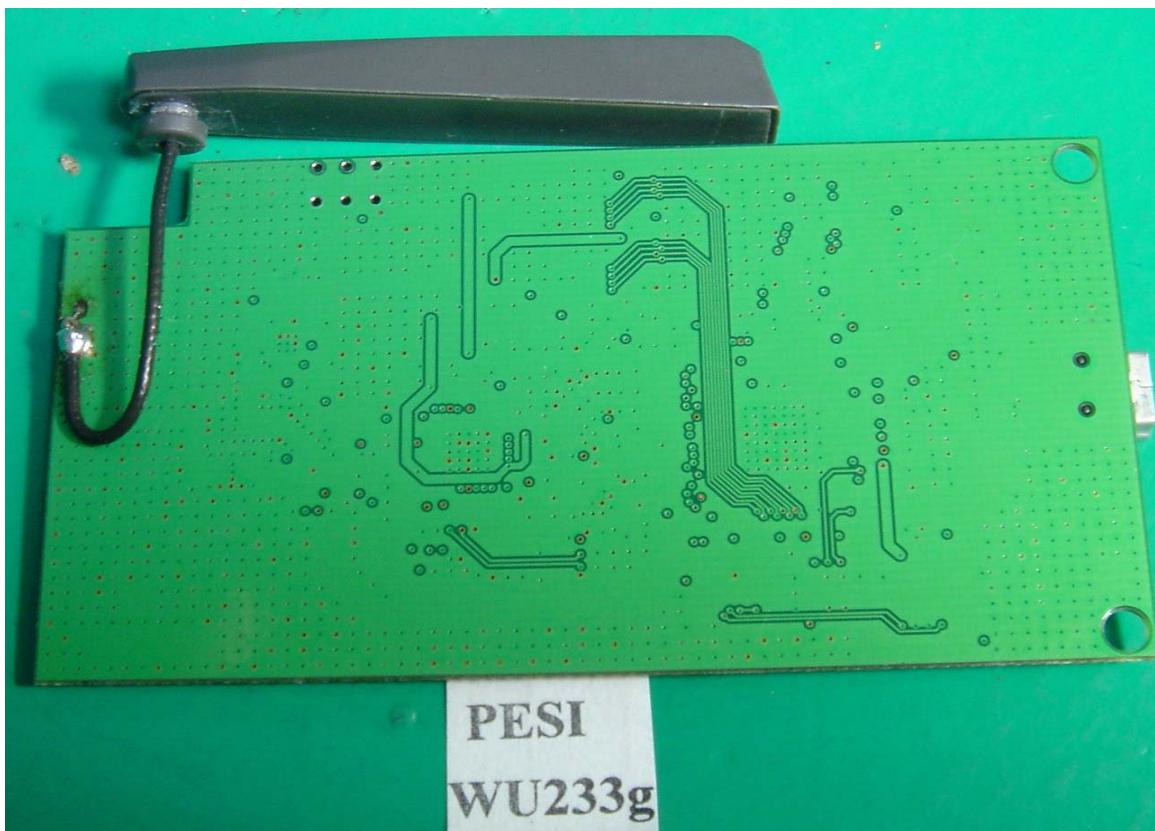
4. Back View Of Wireless LAN USB Adapter (EUT)



- 5. Front View Of Wireless LAN USB Adapter (EUT)
- 6. Back View Of Wireless LAN USB Adapter (EUT)



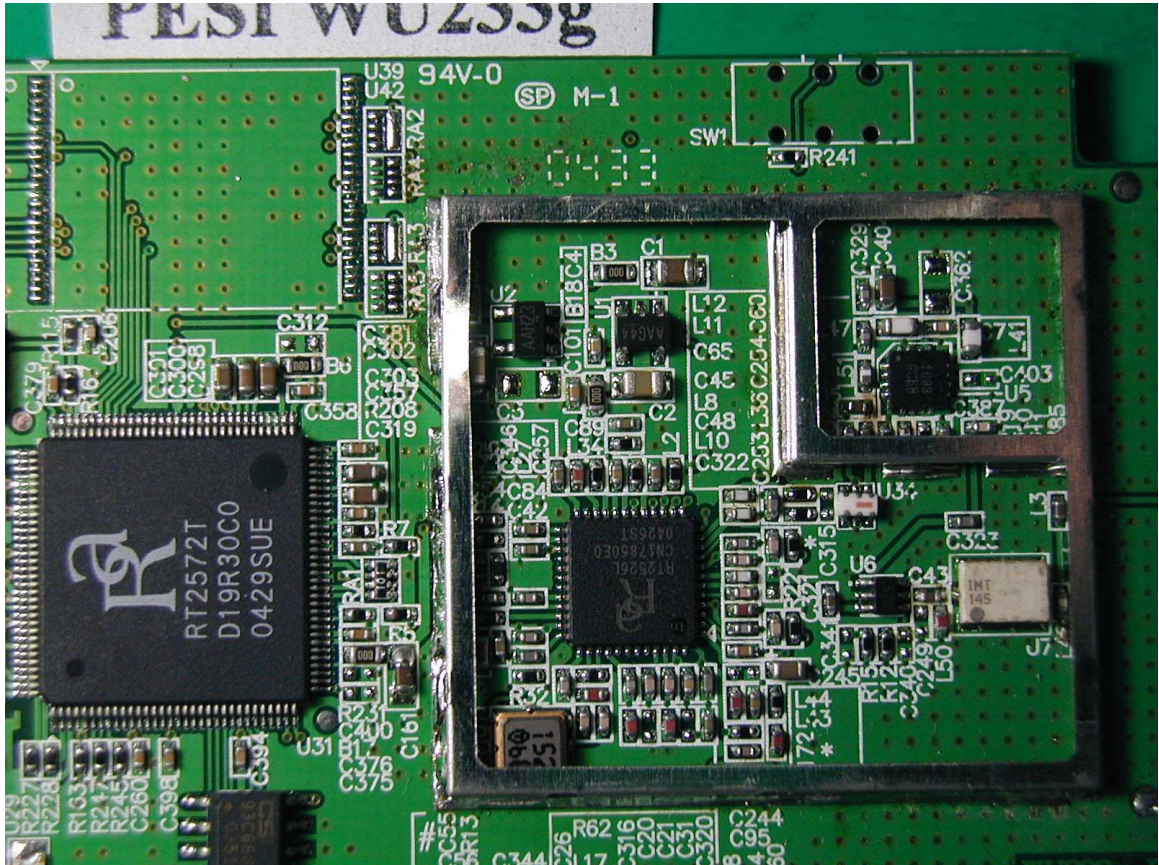
- 7. Front View Of Wireless LAN USB Adapter (EUT)
- 8. Back View Of Wireless LAN USB Adapter (EUT)



- 9. Front View Of Wireless LAN USB Adapter (EUT)
- 10. Front View Of Wireless LAN USB Adapter (EUT)



- 11. Front View Of Wireless LAN USB Adapter (EUT)
- 12. LABEL HERE



11. EMI REDUCTION METHOD DURING COMPLIANCE TESTING

No modification was made during testing.

Appendix A

Circuit (Block) Diagram

(Shall be added by Applicant)

Appendix B

User Manual

(Shall be added by Applicant)