

MEASUREMENT REPORT
of
CLASS II PERMISSIVE CHANGE
for
802.11g WLAN Hard Drive Box

Applicant : ASUSTek Computer Inc.
EUT : Wireless Hard Drive Box
Model No. : WL-HDD 2.5
FCC ID : MSQWLHDD25
Report No. : A5415213

Tested by :

Training Research Co., Ltd.

TEL : 886-2-26935155 FAX : 886-2-26934440

No. 255, Nanyang Street, Shijr, Taipei Hsien 221, Taiwan, R.O.C.

CERTIFICATION

We here by verify that:

The test data, data evaluation, test procedures and equipment configurations shown in this report were made mainly in accordance with the procedures given in ANSI C63.4 (1992) as a reference. All test were conducted by *Training Research Co., Ltd.*, 255 Nanyang Street, Shijr, Taipei Hsien 221, Taiwan, R.O.C. Also, we attest to the accuracy of each.

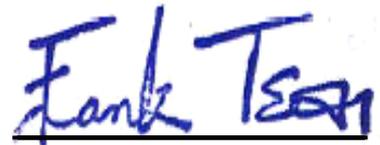
We further submit that the energy emitted by the sample EUT tested as described in the report is **in compliance with** the technical requirements set forth in the FCC Rules Part 15 Subpart B (Declaration of Conformity) and C Section 15.247.

Applicant : ASUSTek Computer Inc.
Applicant address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.
Product Name : Wireless Hard Drive Box
Model Name : WL-HDD 2.5
FCC ID : MSQWLHDD25
Report No. : A5415213
Test Date : October 1, 2004

Prepared by:


Jack Tsai

Approved by:


Frank Tsai

Conditions of issue :

- (1) **This test report shall not be reproduced except in full, without written approval of TRC. And the test result contained within this report only relate to the sample submitted for testing.**
- (2) **This report must not be used by the client to claim product endorsement by NVLAP or any agency of U.S. Government.**
- (3) **This test report, measurements made by TRC are traceable to the NIST only Conducted and Radiated Method.**

★ NVLAP LAB CODE: 200174-0

Federal Communications Commission **Declaration of Conformity (DoC)**

for the following equipment:

Product name : Wireless Hard Drive Box
 Model name : WL-HDD 2.5
 Trade name : ASUS

Is herewith confirmed and found to comply with the requirements of CFR 47 part15 Subpart B - Unintentional Radiators regulation. The results of electromagnetic mission evaluation are shown in the report number : A5415642, A5415213

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation

Manufacturer	USA local representative
Company name: ASUSTeK Computer Inc.	To be determined
Computer address: 4/F, 150, Li-Te Rd., Peitou, Taipei, Taiwan	
ZIP / Postal code 112	
Contact person: Lawrence Yu	
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I . GENERAL

1.1 Introduction

The following measurement report is submitted on behalf of applicant in support that the certification in accordance with Part 2 Subpart J and Part 15 Subpart A, B and C of the Commission's Rules and Regulations.

1.2 Description of EUT

FCC ID : MSQWLHDD25
Product Name : Wireless Hard Drive Box
Model Name : WL-HDD 2.5
Frequency Range : 2.412 GHz ~ 2.462GHz
Support Channel : 11 Channels
Modulation Skill : DBPSK, DQPSK, CCK, OFDM
Power Type : Powered by the adapter,
Model: DSA-0101F-05 A
I/P: 100-240VAC, 50/60Hz, 0.3A; 30VA
O/P: 5VDC, 2.0A
185cm length, non-shielded, incorporates a ferrite core

1.3 Test method

1. Connected the LAN jack of EUT with the LAN card of installed in PC.
2. Using the PC and software provided by the manufacturer to control EUT, the test is performed under the specific conditions.
3. Set different data rate, channels (CH1/CH6/CH11), and EUT Read/Write to memory of PEN drive being tested, repeat the procedures above.
 - (a) Radiated for Intentional test:
making EUT to the mode of continuous transmission and R/W mode
 - (b) Conducted test and Radiated for unintentional test:
making EUT to the linking and R/W mode with support equipments

1.4 Description of Support Equipment

In order to construct the minimum testing, following equipment were used as the support units.

PC : **HP Pavilion**
Model No. : P8574A
Serial No. : TW21920435
FCC ID : N/A, DoC (Declaration of Confirmation) Approved
BSMI : 3902H097
Power type : 100 ~ 127VAC / 4A, 200 ~ 240VAC/2A, 50 ~ 60Hz, 5A,
Switching
Power cord : Non-shielded, 2.33 m length, Plastic hood, No ferrite core

Monitor : **HP 15' Color Monitor**
Model No. : D2827A
Serial No. : KR91161719
FCC ID : C5F7NFCMC1518X
BSMI : 3872B039
Power type : 110 ~ 240 VAC / 50 ~ 60 Hz, Switching
Power cord : Shielded, 1.83m long, No ferrite core
Data cable : Shielded, 1.46m length, with two ferrite cores

Printer : **HP**
Model No. : C6464A
Serial No. : TH16LEB5PK
FCC ID : N/A, DoC Approved
BSMI : 3892H381
Power type : Switching adaptor
Power cord : Non-shielded, 173cm length, No ferrite core
(between adaptor and AC source)
Non-shielded, 180cm length, with ferrite core
(between printer and adaptor)
Data cable : Shielded, 1.70m length, No ferrite core

PS/2 Keyboard : HP
Model No. : 5187-0343
Serial No. : BE21700404
FCC ID : DoC Approved
BSMI : 3892C981
Data cable : Shielded, 1.73m length, Plastic hood, No ferrite core

PS/2 Mouse : HP
Model No. : M-S34
Serial No. : LZB90910464
FCC ID : DZL211029
BSMI : 4862A011
Power type : By PC
Power cord : Non-shielded, 1.88m long, No ferrite core

Modem : ACEEX
Model No. : XDM-56V14
FCC ID : IFAXDM-56V14
Power type : Linear
Power cord : Non-shielded, 1.9m length, No ferrite cord
Data cable : RS232, Shielded, 1.2m length, No ferrite core
RJ11C x 2, 7' length non-shielded, No ferrite core

USB gamepad : Rockfire
Model No. : QF-337uv
Serial No. : KR91379759
FCC ID : None (CE approval)
BSMI : 3862A574
Power type : By computer
Data Cable : Shielded, 1.81m length, Plastic, with ferrite core

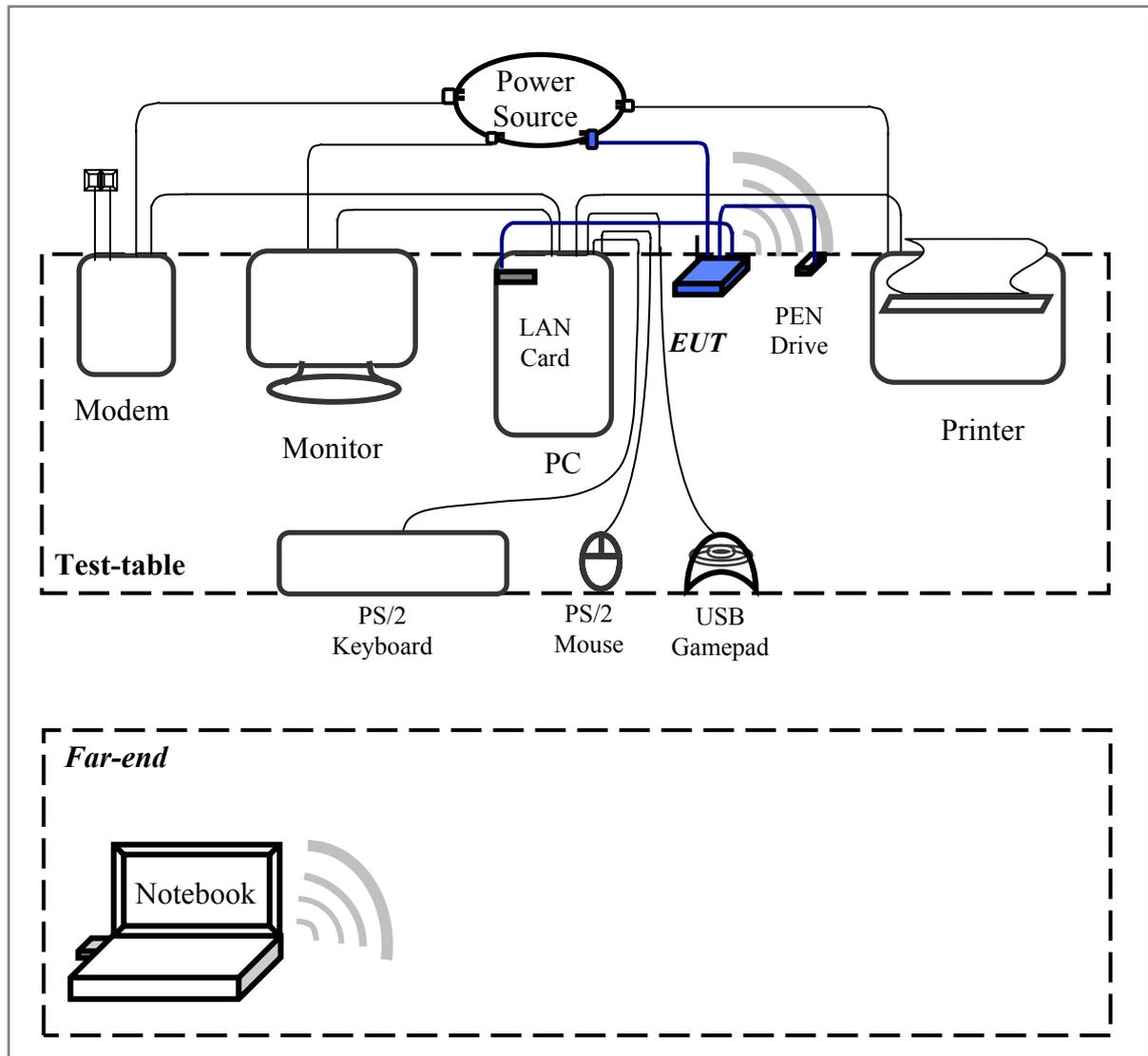
Notebook : **TWINHEAD**
Model No. : N222S8
Serial No. : SY3261000988
FCC ID : N/A, DoC Approved
BSMI : 71001018
Adaptor : **LISHIN INTERNATIONAL ENTERPRISE CORP.**
Model No. : LSE9802A2060
Serial No. : A20231065818
BSMI : 3882B381
Power type : I/P: 100 ~ 240Vac, 50/ 60 Hz, 1.5A ; O/P: 20Vdc, 3A 60W Max.
Power cord : Non-shielded, 180cm length, No ferrite core
(between adaptor and AC source)
Non-shielded, 150cm length, with ferrite core
(between NB and adaptor)

WLAN Card : **Gemtek Technology Co., Ltd.**
Model No. : C911003
FCC ID : MXF-C911003

USB Pen Drive : **G-STAR Communications Inc.**
Model No. : FD20T
Serial No. : 0025
FCC ID : N/A, DoC Approved
BSMI : D33A45
Data cable : Shielded, 120cm length, No ferrite core

LAN Card : **D-Link**
Model No. : DFE-530TX
Serial No. : 0050BAE32FF3, 0050BAE3158B
FCC ID : N/A, DoC Approved
Power type : Powered by PC

1.5 Configuration of System Under Test



Connections of Equipment

- PC:**
- *Parallel Port --- a printer
 - *VGA Port --- a monitor
 - *Serial Port --- an external modem
 - *USB Port --- a USB gamepad
 - *LAN Interface --- **EUT**
 - *PS/2-key Port --- a PS/2 keyboard
 - *PS/2-mouse Port --- a PS/2 mouse

1.6 Verify the Frequency and Channel

Channel	Frequency (GHz)
1	2.412
2	2.417
3	2.422
4	2.427
5	2.432
6	2.437
7	2.442
8	2.447
9	2.452
10	2.457
11	2.462

Note:

1. This is for confirming that all frequencies are in 2.412GHz to 2.462GHz.
2. Section 15.31(m): Measurements on intentional radiators or receivers shall be performed at three frequencies for operating frequency range over 10 MHz.
(The locations of these frequencies one near the top, one near the middle and one near the bottom.)
3. After test, the EUT operating frequencies are in 2.412GHz to 2.462GHz. So all the items as followed in testing report are need to test these three frequencies:
Top: Channel – 1; Middle: Channel – 6; Bottom: Channel – 11.

1.7 Test Procedure

All measurements contained in this report were performed mainly according to the techniques described in ANSI C63.4 (1992) and the pre-setup was written on 1.3 test method, the detail setup was written on each test item.

1.8 Location of the Test Site

The radiated emissions measurements required by the rules were performed on the **three-meter, Anechoic Chamber (FCC Registration Number: 93906)** maintained by *Training Research Co., Ltd.* 1F, No. 255 Nanyang Street, Shijr, Taipei Hsien 221, Taiwan, R.O.C. Complete description and measurement data have been placed on file with the commission. The conducted power line emissions tests and other test items were performed in a anechoic chamber also located at Training Research Co., Ltd.

No. 255 Nanyang Street, Shijr, Taipei Hsien 221, Taiwan, R.O.C. *Training Research Co., Ltd.* is listed by the FCC as a facility available to do measurement work for others on a contract basis.

1.9 General Test Condition

The conditions under which the EUT operates were varied to determine their effect on the equipment's emission characteristics. The final configuration of the test system and the mode of operation used during these tests were chosen as that which produced the highest emission levels. However, only those conditions, which the EUT was considered likely to encounter in normal use were investigated.

In test, they were set in high power and continuously transmitting mode that controlled by computer. The ch01, ch06 and ch11 of EUT were all tested. The setting up procedure is recorded on 1.3 test method.

II. Section 15.101(a): Equipment authorization of unintentional radiators

The EUT equipped with a LAN interface and should be operated with the computer. It was categorized to *Class B personal computers and peripherals* as cannot be operated stand-alone. The authorization requires **Declaration of Conformity (DoC)** and the items required such as Sect.15.107 (Conducted limits) and Section15.109 (Radiated emission limits) is same as Section15.207 and 15.247(C).

III. Section 15.207: Power Line Conducted Emissions for AC Powered Units

3.1 Test Condition & Setup

The power line conducted emission measurements were performed in an anechoic chamber. The EUT was assembled on a wooden table, which is 80 centimeters high, was placed 40 centimeters from the backwall and at least 1 meter from the sidewall.

Power was fed to the EUT from the public utility power grid through a line filter and Line Impedance Stabilization Networks (LISNs). The LISN housing, measuring instrumentation case, ground plane, etc., were electrically bonded together at the same RF potential. The Spectrum analyzer (or EMI receiver) was connected to the AC line through an isolation transformer. The 50-ohm output of the LISN was connected to the spectrum analyzer directly. Conducted emission levels were in the CISPR quasi-peak and average detection mode. The analyzer's 6 dB bandwidth was set to 9 KHz. No post-detector video filter was used.

The spectrum was scanned from 150 KHz to 30 MHz. The physical arrangement of the test system and associated cabling was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude and frequency. All spurious emission frequencies were observed. The highest emission amplitudes relative to the appropriate limit were measured and have been recorded in paragraph 2.4.

There is a test condition apply in this test item, the test procedure description as <1.3>. Three channels were tested, one in the top (CH01), one in the middle (CH06) and the other in bottom (CH11).

3.2 List of Test Instruments

Instrument Name	Model	Brand	Serial No.	Calibration Date
				Next time
EMI Receiver	8546A	HP	3520A00242	08/05/05
RF Filter Section	85460A	HP	3448A00217	08/05/05
LISN (EUT)	LISN-01	TRC	99-05	10/07/05
LISN (Support E.)	LISN-01	TRC	9912-03, 04	10/21/04
Pre-amplifier	15542 ZFL-500	Mini – Circuits	0 0117	05/20/05
6dB Attenuator	MCL BW-S6W2	Mini – Circuits	9915 – Conducted	05/20/05
10dB Attenuator	A5542 VAT010	Mini – Circuits	0215 – Conducted	05/20/05
Coaxial Cable (2 meter)	A30A30-0058-50FS-2M	Jyebao	SMA-08	05/20/05
Coaxial Cable (1.1 meter)	A30A30-0058-50FS-1M	Jyebao	SMA-09	05/20/05
Coaxial Cable (20 meter)	RG-214/U	Jyebao	NP-01	05/20/05
Coaxial Cable (20 meter)	RG-214/U	Jyebao	NP-02	05/20/05
Auto Switch Box (< 30MHz)	ASB-01	TRC	9904-01	05/20/05

3.3 Test Result of Power Line Conducted Emissions

The following table shows a summary of the highest emissions of power line conducted emissions on the LIVE and NETURAL conductors of the EUT power cord. Show as follows.

Test Conditions: Temperature : 25 °C Humidity : 75 % RH

Test mode: Standby mode

<i>Power Connected Emissions</i>					<i>Class B</i>		
<i>Conductor</i>	<i>Frequency (KHz)</i>	<i>Peak (dBµV)</i>	<i>QP (dBµV)</i>	<i>Average (dBµV)</i>	<i>QP-limit (dBµV)</i>	<i>AVG-limit (dBµV)</i>	<i>Margin (dB)</i>
Line 1	243.000	50.26	---	---	63.34	53.34	-3.08
	348.000	38.67	---	---	60.34	50.34	-11.67
	461.000	36.05	---	---	57.11	47.11	-11.06
	587.000	36.64	---	---	56.00	46.00	-9.36
	919.000	36.67	---	---	56.00	46.00	-9.33
	1398.000	36.98	---	---	56.00	46.00	-9.02
	1924.000	35.91	---	---	56.00	46.00	-10.09
	3638.000	35.88	---	---	56.00	46.00	-10.12
	23120.000	37.42	---	---	60.00	50.00	-12.58
Line 2	233.905	52.73	52.26	42.30	63.49	53.49	-11.19
	338.000	38.86	---	---	60.63	50.63	-11.77
	587.000	35.66	---	---	56.00	46.00	-10.34
	928.000	34.59	---	---	56.00	46.00	-11.41
	1613.000	36.57	---	---	56.00	46.00	-9.43
	1994.000	36.78	---	---	56.00	46.00	-9.22
	2415.000	37.00	---	---	56.00	46.00	-9.00
	3780.000	35.36	---	---	56.00	46.00	-10.64

NOTE:

- (1)Margin = Peak Amplitude – Limit, *The reading amplitudes are all under limit.*
- (2)A "+" sign in the margin column means the emission is OVER the Class B Limit and "-" sign of means UNDER the Class B limit

Test mode: IEEE 802.11b, Channel 1

<i>Power Connected Emissions</i>					<i>Class B</i>		
<i>Conductor</i>	<i>Frequency (KHz)</i>	<i>Peak (dBμV)</i>	<i>QP (dBμV)</i>	<i>Average (dBμV)</i>	<i>QP-limit (dBμV)</i>	<i>AVG-limit (dBμV)</i>	<i>Margin (dB)</i>
Line 1	225.260	53.24	51.39	37.08	63.63	53.63	-12.24
	592.000	38.27	---	---	56.00	46.00	-7.73
	928.000	36.50	---	---	56.00	46.00	-9.50
	1282.000	36.21	---	---	56.00	46.00	-9.79
	1598.000	36.21	---	---	56.00	46.00	-9.79
	1994.000	36.30	---	---	56.00	46.00	-9.70
Line 2	224.900	53.06	51.61	37.16	63.63	53.63	-12.02
	587.000	35.62	---	---	56.00	46.00	-10.38
	1243.000	35.81	---	---	56.00	46.00	-10.19
	1598.000	37.40	---	---	56.00	46.00	-8.60
	2415.000	37.21	---	---	56.00	46.00	-8.79
	3702.000	37.74	---	---	56.00	46.00	-8.26

Test mode: IEEE 802.11b, Channel 6

<i>Power Connected Emissions</i>					<i>Class B</i>		
<i>Conductor</i>	<i>Frequency (KHz)</i>	<i>Peak (dBμV)</i>	<i>QP (dBμV)</i>	<i>Average (dBμV)</i>	<i>QP-limit (dBμV)</i>	<i>AVG-limit (dBμV)</i>	<i>Margin (dB)</i>
Line 1	229.315	51.55	52.46	42.06	63.49	53.49	-11.03
	592.000	37.42	---	---	56.00	46.00	-8.58
	911.000	36.76	---	---	56.00	46.00	-9.24
	1308.000	37.42	---	---	56.00	46.00	-8.58
	1629.000	37.12	---	---	56.00	46.00	-8.88
	1994.000	35.81	---	---	56.00	46.00	-10.19
Line 2	234.130	52.42	51.99	41.53	63.49	53.49	-11.50
	954.000	35.95	---	---	56.00	46.00	-10.05
	1269.000	36.78	---	---	56.00	46.00	-9.22
	1977.000	37.49	---	---	56.00	46.00	-8.51
	2458.000	37.72	---	---	56.00	46.00	-8.28
	3670.000	37.74	---	---	56.00	46.00	-8.26

Test mode: IEEE 802.11b, Channel 11

<i>Power Connected Emissions</i>					<i>Class B</i>		
<i>Conductor</i>	<i>Frequency (KHz)</i>	<i>Peak (dBμV)</i>	<i>QP (dBμV)</i>	<i>Average (dBμV)</i>	<i>QP-limit (dBμV)</i>	<i>AVG-limit (dBμV)</i>	<i>Margin (dB)</i>
Line 1	223.015	52.80	51.07	28.10	64.74	54.74	-12.67
	587.000	37.07	---	---	56.00	46.00	-8.93
	937.000	36.81	---	---	56.00	46.00	-9.19
	1269.000	37.42	---	---	56.00	46.00	-8.58
	1613.000	37.45	---	---	56.00	46.00	-8.55
	2415.000	34.77	---	---	56.00	46.00	-11.23
Line 2	223.555	53.32	48.28	28.34	63.74	53.74	-15.46
	587.000	35.91	---	---	56.00	46.00	-10.09
	919.000	35.66	---	---	56.00	46.00	-10.34
	1269.000	36.97	---	---	56.00	46.00	-9.03
	1613.000	37.33	---	---	56.00	46.00	-8.67
	2394.000	36.43	---	---	56.00	46.00	-9.57

Test mode: IEEE 802.11g, Channel 1

<i>Power Connected Emissions</i>					<i>Class B</i>		
<i>Conductor</i>	<i>Frequency (KHz)</i>	<i>Peak (dBμV)</i>	<i>QP (dBμV)</i>	<i>Average (dBμV)</i>	<i>QP-limit (dBμV)</i>	<i>AVG-limit (dBμV)</i>	<i>Margin (dB)</i>
Line 1	225.760	53.48	49.70	33.28	63.74	53.74	-14.04
	587.000	37.00	---	---	56.00	46.00	-9.00
	928.000	36.34	---	---	56.00	46.00	-9.66
	1256.000	36.60	---	---	56.00	46.00	-9.40
	1613.000	37.38	---	---	56.00	46.00	-8.62
	2437.000	35.31	---	---	56.00	46.00	-10.69
Line 2	225.285	53.17	48.37	30.61	63.69	53.69	-15.32
	919.000	35.43	---	---	56.00	46.00	-10.57
	1598.000	36.92	---	---	56.00	46.00	-9.08
	1941.000	37.26	---	---	56.00	46.00	-8.74
	2415.000	37.74	---	---	56.00	46.00	-8.26
	3606.000	35.84	---	---	56.00	46.00	-10.16

Test mode: IEEE 802.11g, Channel 6

<i>Power Connected Emissions</i>					<i>Class B</i>		
<i>Conductor</i>	<i>Frequency (KHz)</i>	<i>Peak (dBμV)</i>	<i>QP (dBμV)</i>	<i>Average (dBμV)</i>	<i>QP-limit (dBμV)</i>	<i>AVG-limit (dBμV)</i>	<i>Margin (dB)</i>
Line 1	229.700	52.92	52.38	42.10	63.54	53.54	-11.16
	575.000	36.34	---	---	56.00	46.00	-9.66
	954.000	37.72	---	---	56.00	46.00	-8.28
	1424.000	37.49	---	---	56.00	46.00	-8.51
	2458.000	35.22	---	---	56.00	46.00	-10.78
	3317.000	35.29	---	---	56.00	46.00	-10.71
Line 2	228.305	52.73	52.08	37.36	63.54	53.54	-11.46
	1269.000	36.78	---	---	56.00	46.00	-9.22
	1598.000	37.52	---	---	56.00	46.00	-8.48
	1941.000	37.54	---	---	56.00	46.00	-8.46
	2415.000	36.98	---	---	56.00	46.00	-9.02
	3670.000	37.38	---	---	56.00	46.00	-8.62

Test mode: IEEE 802.11g, Channel 11

<i>Power Connected Emissions</i>					<i>FCC Class B</i>		
<i>Conductor</i>	<i>Frequency (KHz)</i>	<i>Peak (dBμV)</i>	<i>QP (dBμV)</i>	<i>Average (dBμV)</i>	<i>QP-limit (dBμV)</i>	<i>AVG-limit (dBμV)</i>	<i>Margin (dB)</i>
Line 1	221.710	53.46	43.29	20.30	63.74	53.74	-20.45
	592.000	37.26	---	---	56.00	46.00	-8.74
	928.000	36.78	---	---	56.00	46.00	-9.22
	1256.000	37.42	---	---	56.00	46.00	-8.58
	1613.000	37.31	---	---	56.00	46.00	-8.69
	3413.000	35.81	---	---	56.00	46.00	-10.19
Line 2	223.080	53.03	44.66	28.64	65.69	55.69	-19.03
	598.000	35.95	---	---	56.00	46.00	-10.05
	1282.000	36.87	---	---	56.00	46.00	-9.13
	1598.000	37.24	---	---	56.00	46.00	-8.76
	2394.000	36.62	---	---	56.00	46.00	-9.38
	3702.000	37.95	---	---	56.00	46.00	-8.05

VI. Section 15.247 (C): Spurious Emissions (Radiated)

4.1 Test Condition & Setup

We'd performed the test by the *radiated emission* skill: The EUT was placed in an anechoic chamber, and set the EUT transmitting continuously and scanned at 3-meter distance to determine its emission characteristics. The physical arrangement of the EUT was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude, directivity, and frequency. The exact system configuration, which produced the highest emissions was noted so it could be reproduced later during the final tests. For the measurement above 1GHz, according to the guidance we'd set the spectrum analyzer's 6dB bandwidth RBW to 1MHz.

This was done to ensure that the final measurements would demonstrate the worst-case interference potential of the EUT.

Final radiation measurements were made on a three-meter, anechoic chamber. The EUT system was placed on a nonconductive turntable, which is 0.8 meters height, top surface 1.0 x 1.5 meter.

The spectrum was examined from 30 MHz to 1000 MHz using an Hewlett Packard 85460A EMI Receiver, SCHWARZECK whole range Small Biconical Antenna (Model No.: UBAA9114 & BBVU9135) is used to measure frequency from 30 MHz to 1GHz. The final test is used the HP 85460A spectrum and 8564E spectrum was examined from 1GHz to 25GHz using an Hewlett Packard Spectrum Analyzer, EMCO/HP Horn Antenna (Model 3115 / 84125-80008) for 1G - 25GHz.

At each frequency, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. There are two spectrum analyzers use on this testing, HP 85460A for frequency 30MHz to 1000MHz, and 8564E for frequency 1GHz to 25GHz. No post-detector video filters were used in the test. The spectrum analyzer's 6dB bandwidth was set to 120KHz (spectrum was examined from 30 MHz to 1000 MHz), the spectrum analyzer's 6 dB bandwidth was set to 1 MHz (spectrum was examined from 1GHz to 25GHz) and the analyzer was operated in the maximum hold mode. There is a test condition applies in this test item, the test procedure description as the following:

Three channels were tested, one in the top (CH01), one in the middle (CH06) and the other in bottom (CH11). The setting up procedure is recorded on <1.3>

With the transmitter operating from a AC source and using the internal of EUT, radiates spurious emissions falling within the restricted bands of 15.209 were measured at operating frequencies corresponding to upper, middle and bottom channels in the 2400 ~ 2483.5 MHz band.

The actual field intensity in decibels referenced to 1 microvolt per meter (dB μ V/m) is determined by algebraically adding the measured reading in dB μ V, the antenna factor (dB), and cable loss (dB) at the appropriate frequency. Since the EUT was set to transmit continuously, no *duty cycle* is present.

For frequency between 30MHz to 1000MHz

$$F_{Ia} \text{ (dB}\mu\text{V/m)} = F_{Ir} \text{ (dB}\mu\text{V)} + \text{Correction Factors}$$

F_{Ia} : Actual Field Intensity

F_{Ir} : Reading of the Field Intensity

Correction Factors = Antenna Factor + Cable Loss – Amplifier Gain

For frequency between 1GHz to 25GHz

$$F_{Ia} \text{ (dB}\mu\text{V/m)} = F_{Ir} \text{ (dB}\mu\text{V)} + \text{Correction Factor}$$

F_{Ia} : Actual Field Intensity

F_{Ir} : Reading of the Field Intensity

Correction Factors = Antenna Factor + Cable Loss – Amplifier Gain

4.2 List of Test Instruments

Instrument Name	Model	Brand	Serial No.	Calibration Date
				Next time
EMI Receiver	8546A	HP	3520A00242	08/05/05
RF Filter Section	85460A	HP	3448A00217	08/05/05
Small Biconical Antenna	UBAA9114 & BBVU9135	SCHWARZECK	127	10/11/05
Pre-amplifier	PA1F	TRC	1FAC	05/20/05
Auto Switch Box (>30MHz)	ASB-01	TRC	9904-01	05/20/05
Coaxial Cable (Double shielded, 15 meter)	A30A30-0058-50FS-15 M	JYEBAO	SMA-01	05/20/05
Coaxial Cable (1.1 meter)	A30A30-0058-50FS-1M	JYEBAO	SMA-02	05/20/05
Spectrum Analyzer	8564E	HP	3720A00840	08/13/05
Microwave Preampfier	84125C	HP	US36433002	08/13/05
Horn Antenna	3115	EMCO	9104-3668	12/18/04
Standard Guide Horn Antenna	84125-80008	HP	18-26.5GHz	12/18/04
Standard Guide Horn Antenna	84125-80001	HP	26.5-40GHz	12/18/04
Horn Antenna	1196E (3115)	HP (EMCO)	9704-5178	12/12/04
Pre-amplifier	PA2F	TRC	2F1GZ	03/20/05
Coaxial Cable (3 miter)	A30A30-0058-50FST11 8	JYEBAO	MSA-05	03/20/05
Coaxial Cable (1 meter)	A30A30-0058-50FST11 8	JYEBAO	MSA-04	03/20/05

4.3 Test Result of Spurious Radiated Emissions

The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarizations, EUT orientation, etc. are recorded on the following.

Test Conditions: Temperature : 25 ° C Humidity : 73 % RH

Test mode: Standby mode for 30MHz to 1GHz [Horizontal]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dBµV/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dBµV)	Ant. H. (m)	Table (°)			Limit (dBµV/m)	Margin (dB)
66.37	27.45	1.00	116	1.66	29.11	40.00	-10.89
253.10	44.40	1.00	151	-4.08	40.32	46.00	-5.68
504.09	34.02	1.00	308	3.07	37.09	46.00	-8.91
625.34	27.30	1.00	87	7.58	34.88	46.00	-11.12
750.23	26.41	1.00	229	10.42	36.83	46.00	-9.17
875.11	22.79	1.00	229	13.94	36.73	46.00	-9.27

Test mode: Standby mode for 30MHz to 1GHz [Vertical]

Radiated Emission				Correction Factors (dB)	Corrected Amplitude (dBµV/m)	Class B (3 m)	
Frequency (MHz)	Amplitude (dBµV)	Ant. H. (m)	Table (°)			Limit (dBµV/m)	Margin (dB)
65.16	27.97	1.00	165	1.77	29.74	40.00	-10.26
253.10	43.51	1.00	99	-4.08	39.43	46.00	-6.57
288.26	36.59	1.00	64	-3.80	32.79	46.00	-13.21
625.34	29.90	1.00	233	7.58	37.48	46.00	-8.52
750.23	23.61	1.00	322	10.42	34.03	46.00	-11.97
873.90	24.70	1.00	310	13.91	38.61	46.00	-7.39

Note:

1. Margin = Amplitude – limit, *if margin is minus means under limit.*
2. Corrected Amplitude = Reading Amplitude + Correction Factors
3. Correction factor = Antenna factor + (Cable Loss – Amplitude gain) + Switching Box Loss

Test mode: Standby mode for 1GHz to 25GHz [Horizontal]

Frequency	Ant. H.	Table	Amplitude		Correction Factor	Corrected Amplitude		Limit		Margin
			Peak / Ave.			Peak / Ave.		Peak / Ave.		
MHz	m	degree	dBμV		dB/m	dBμV/m		dBμV/m		dB
1439.17	1.00	213	37.24	---	0.25	37.49	---	73.96	53.96	-16.47
2395.42	1.00	121	35.57	---	6.35	41.92	---	73.96	53.96	-12.04
5696.25	1.00	69	27.24	---	17.37	44.61	---	73.96	53.96	-9.35
8791.67	1.00	242	25.58	---	23.07	48.65	---	73.96	53.96	-5.31
25292.29	1.00	101	49.00	---	0.37	49.37	---	73.96	53.96	-4.59

Test mode: Standby mode for 1GHz to 25GHz [Vertical]

Frequency	Ant. H.	Table	Amplitude		Correction Factor	Corrected Amplitude		Limit		Margin
			Peak / Ave.			Peak / Ave.		Peak / Ave.		
MHz	m	degree	dBμV		dB/m	dBμV/m		dBμV/m		dB
2395.42	1.00	205	33.41	---	6.35	39.76	---	73.96	53.96	-14.20
4081.25	1.00	212	29.74	---	12.62	42.36	---	73.96	53.96	-11.60
5377.50	1.00	360	27.24	---	16.66	43.90	---	73.96	53.96	-10.06
8253.33	1.00	40	24.74	---	22.74	47.48	---	73.96	53.96	-6.48
19668.12	1.00	342	47.50	---	1.16	48.66	---	73.96	53.96	-5.30

Note:

1. Margin = Corrected - Limit.
2. The EUT utilizes a *permanently attached antenna*. In addition the spurious RF radiated emissions levels do comply with the *20dBc limit* both at its bandedges and other spurious emissions.
3. As stated in Section 15.35(b), for any frequencies above 1000MHz, radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. As the results of our test, the peak amplitudes are already below the FCC limit. Thus the average amplitudes of the rest are omitted.

Test mode: IEEE 802.11b CH01 for 30MHz to 1GHz [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table ()			Limit (dBμV/m)	Margin (dB)
66.37	27.63	1.00	285	1.66	29.29	40.00	-10.71
253.10	37.85	1.00	131	-4.08	33.77	46.00	-12.23
504.09	32.40	1.00	308	3.07	35.47	46.00	-10.53
625.34	27.74	1.00	84	7.58	35.32	46.00	-10.68
750.23	27.53	1.00	235	10.42	37.95	46.00	-8.05
875.11	23.47	1.00	258	13.94	37.41	46.00	-8.59

Test mode: IEEE 802.11b CH01 for 30MHz to 1GHz [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table ()			Limit (dBμV/m)	Margin (dB)
67.59	28.46	1.00	189	1.55	30.01	40.00	-9.99
253.10	40.65	1.00	90	-4.08	36.57	46.00	-9.43
288.26	38.87	1.00	73	-3.80	35.07	46.00	-10.93
624.12	28.71	1.00	231	7.53	36.24	46.00	-9.76
750.23	24.42	1.00	240	10.42	34.84	46.00	-11.16
873.90	22.76	1.00	32	13.91	36.67	46.00	-9.33

Test mode: IEEE 802.11b CH01 for 1GHz to 25GHz [Horizontal]

<i>Frequency</i>	<i>Ant. H.</i>	<i>Table</i>	<i>Amplitude</i>		<i>Correction Factor</i>	<i>Corrected Amplitude</i>		<i>Limit</i>		<i>Margin</i>
			<i>Peak / Ave.</i>			<i>Peak / Ave.</i>		<i>Peak / Ave.</i>		
<i>MHz</i>	<i>m</i>	<i>degree</i>	<i>dBμV</i>		<i>dB/m</i>	<i>dBμV/m</i>		<i>dBμV/m</i>		<i>dB</i>
3216.67	1.00	23	36.50	---	11.47	47.97	---	73.96	53.96	-5.99
4823.12	1.00	120	37.77	---	3.76	41.53	---	73.96	53.96	-12.43
7233.75	1.00	248	36.28	---	10.07	46.35	---	73.96	53.96	-7.61
9650.42	1.00	118	34.94	---	11.47	46.41	---	73.96	53.96	-7.55
12061.04	1.00	250	36.60	---	9.81	46.41	---	73.96	53.96	-7.55
19296.25	1.00	67	45.33	---	1.22	46.55	---	73.96	53.96	-7.41

Test mode: IEEE 802.11b CH01 for 1GHz to 25GHz [Vertical]

<i>Frequency</i>	<i>Ant. H.</i>	<i>Table</i>	<i>Amplitude</i>		<i>Correction Factor</i>	<i>Corrected Amplitude</i>		<i>Limit</i>		<i>Margin</i>
			<i>Peak / Ave.</i>			<i>Peak / Ave.</i>		<i>Peak / Ave.</i>		
<i>MHz</i>	<i>m</i>	<i>degree</i>	<i>dBμV</i>		<i>dB/m</i>	<i>dBμV/m</i>		<i>dBμV/m</i>		<i>dB</i>
3216.67	1.00	278	40.00	---	11.47	51.47	---	73.96	53.96	-2.49
7233.75	1.00	228	36.11	---	10.07	46.18	---	73.96	53.96	-7.78
9650.42	1.00	271	35.77	---	11.47	47.24	---	73.96	53.96	-6.72
12061.04	1.00	317	37.27	---	9.81	47.08	---	73.96	53.96	-6.88
19296.25	1.00	225	45.83	---	1.22	47.05	---	73.96	53.96	-6.91
21708.12	1.00	75	45.16	---	0.88	46.04	---	73.96	53.96	-7.92

Test mode: IEEE 802.11b CH06 for 30MHz to 1GHz [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table ()			Limit (dBμV/m)	Margin (dB)
253.10	41.95	1.00	141	-4.08	37.87	46.00	-8.13
402.24	37.31	1.00	274	-0.91	36.40	46.00	-9.60
505.30	31.70	1.00	311	3.12	34.82	46.00	-11.18
625.34	27.27	1.00	88	7.58	34.85	46.00	-11.15
750.23	28.05	1.00	230	10.42	38.47	46.00	-7.53
875.11	22.60	1.00	263	13.94	36.54	46.00	-9.46

Test mode: IEEE 802.11b CH06 for 30MHz to 1GHz [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table ()			Limit (dBμV/m)	Margin (dB)
66.37	28.19	1.00	199	1.66	29.85	40.00	-10.15
253.10	42.66	1.00	102	-4.08	38.58	46.00	-7.42
288.26	38.85	1.00	255	-3.80	35.05	46.00	-10.95
624.12	29.96	1.00	229	7.53	37.49	46.00	-8.51
750.23	23.61	1.00	229	10.42	34.03	46.00	-11.97
873.90	24.51	1.00	16	13.91	38.42	46.00	-7.58

Test mode: IEEE 802.11b CH06 for 1GHz to 25GHz [Horizontal]

<i>Frequency</i>	<i>Ant. H.</i>	<i>Table</i>	<i>Amplitude</i>		<i>Correction Factor</i>	<i>Corrected Amplitude</i>		<i>Limit</i>		<i>Margin</i>
			<i>Peak / Ave.</i>			<i>Peak / Ave.</i>		<i>Peak / Ave.</i>		
<i>MHz</i>	<i>m</i>	<i>degree</i>	<i>dBμV</i>		<i>dB/m</i>	<i>dBμV/m</i>		<i>dBμV/m</i>		<i>dB</i>
3250.00	1.00	131	36.17	---	11.63	47.80	---	73.96	53.96	-6.16
7312.29	1.00	114	35.77	---	10.30	46.07	---	73.96	53.96	-7.89
9747.08	1.00	254	35.27	---	11.89	47.16	---	73.96	53.96	-6.80
12187.92	1.00	340	39.44	---	9.74	49.18	---	73.96	53.96	-4.78
19498.12	1.00	302	45.67	---	1.19	46.86	---	73.96	53.96	-7.10
24371.46	1.00	354	46.00	---	0.50	46.50	---	73.96	53.96	-7.46

Test mode: IEEE 802.11b CH06 for 1GHz to 25GHz [Vertical]

<i>Frequency</i>	<i>Ant. H.</i>	<i>Table</i>	<i>Amplitude</i>		<i>Correction Factor</i>	<i>Corrected Amplitude</i>		<i>Limit</i>		<i>Margin</i>
			<i>Peak / Ave.</i>			<i>Peak / Ave.</i>		<i>Peak / Ave.</i>		
<i>MHz</i>	<i>m</i>	<i>degree</i>	<i>dBμV</i>		<i>dB/m</i>	<i>dBμV/m</i>		<i>dBμV/m</i>		<i>dB</i>
3250.00	1.00	186	38.67	---	11.63	50.30	---	73.96	53.96	-3.66
4877.50	1.00	211	38.61	---	3.97	42.58	---	73.96	53.96	-11.38
7312.29	1.00	54	36.61	---	10.30	46.91	---	73.96	53.96	-7.05
9747.08	1.00	33	35.10	---	11.89	46.99	---	73.96	53.96	-6.97
12187.92	1.00	192	38.60	---	9.74	48.34	---	73.96	53.96	-5.62
19498.12	1.00	201	46.33	---	1.19	47.52	---	73.96	53.96	-6.44

Test mode: IEEE 802.11b CH11 for 30MHz to 1GHz [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table ()			Limit (dBμV/m)	Margin (dB)
66.37	27.80	1.00	132	1.66	29.46	40.00	-10.54
253.10	42.82	1.00	141	-4.08	38.74	46.00	-7.26
501.66	32.67	1.00	312	2.97	35.64	46.00	-10.36
625.34	28.44	1.00	81	7.58	36.02	46.00	-9.98
750.23	28.05	1.00	229	10.42	38.47	46.00	-7.53
875.11	22.18	1.00	293	13.94	36.12	46.00	-9.88

Test mode: IEEE 802.11b CH11 for 30MHz to 1GHz [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table ()			Limit (dBμV/m)	Margin (dB)
66.37	27.61	1.00	209	1.66	29.27	40.00	-10.73
254.31	42.61	1.00	106	-4.10	38.51	46.00	-7.49
288.26	38.22	1.00	16	-3.80	34.42	46.00	-11.58
624.12	27.92	1.00	229	7.53	35.45	46.00	-10.55
750.23	24.07	1.00	49	10.42	34.49	46.00	-11.51
873.90	25.07	1.00	6	13.91	38.98	46.00	-7.02

Test mode: IEEE 802.11b CH11 for 1GHz to 25GHz [Horizontal]

<i>Frequency</i>	<i>Ant. H.</i>	<i>Table</i>	<i>Amplitude</i>		<i>Correction Factor</i>	<i>Corrected Amplitude</i>		<i>Limit</i>		<i>Margin</i>
			<i>Peak / Ave.</i>			<i>Peak / Ave.</i>		<i>Peak / Ave.</i>		
<i>MHz</i>	<i>m</i>	<i>degree</i>	<i>dBμV</i>		<i>dB/m</i>	<i>dBμV/m</i>		<i>dBμV/m</i>		<i>dB</i>
4877.50	1.00	283	37.94	---	3.97	41.91	---	73.96	53.96	-12.05
7312.29	1.00	165	35.11	---	10.30	45.41	---	73.96	53.96	-8.55
9747.08	1.00	232	34.60	---	11.89	46.49	---	73.96	53.96	-7.47
12187.92	1.00	302	38.94	---	9.74	48.68	---	73.96	53.96	-5.28
19696.46	1.00	311	45.17	---	1.16	46.33	---	73.96	53.96	-7.63
24619.37	1.00	293	45.16	---	0.47	45.63	---	73.96	53.96	-8.33

Test mode: IEEE 802.11b CH11 for 1GHz to 25GHz [Vertical]

<i>Frequency</i>	<i>Ant. H.</i>	<i>Table</i>	<i>Amplitude</i>		<i>Correction Factor</i>	<i>Corrected Amplitude</i>		<i>Limit</i>		<i>Margin</i>
			<i>Peak / Ave.</i>			<i>Peak / Ave.</i>		<i>Peak / Ave.</i>		
<i>MHz</i>	<i>m</i>	<i>degree</i>	<i>dBμV</i>		<i>dB/m</i>	<i>dBμV/m</i>		<i>dBμV/m</i>		<i>dB</i>
3283.33	1.00	71	38.67	---	11.79	50.46	---	73.96	53.96	-3.50
7384.79	1.00	59	34.94	---	10.42	45.36	---	73.96	53.96	-8.60
9849.79	1.00	287	35.11	---	11.93	47.04	---	73.96	53.96	-6.92
12308.75	1.00	262	37.11	---	9.56	46.67	---	73.96	53.96	-7.29
19696.46	1.00	27	45.83	---	1.16	46.99	---	73.96	53.96	-6.97
24619.37	1.00	3	45.50	---	0.47	45.97	---	73.96	53.96	-7.99

Test mode: IEEE 802.11g CH01 for 30MHz to 1GHz [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table ()			Limit (dBμV/m)	Margin (dB)
67.59	27.29	1.00	115	1.55	28.84	40.00	-11.16
253.10	41.72	1.00	145	-4.08	37.64	46.00	-8.36
504.09	32.40	1.00	292	3.07	35.47	46.00	-10.53
625.34	27.44	1.00	76	7.58	35.02	46.00	-10.98
750.23	27.63	1.00	222	10.42	38.05	46.00	-7.95
905.42	25.01	1.00	152	14.89	39.90	46.00	-6.10

Test mode: IEEE 802.11g CH01 for 30MHz to 1GHz [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table ()			Limit (dBμV/m)	Margin (dB)
65.16	28.68	1.00	226	1.77	30.45	40.00	-9.55
253.10	42.52	1.00	99	-4.08	38.44	46.00	-7.56
288.26	38.94	1.00	75	-3.80	35.14	46.00	-10.86
625.34	28.63	1.00	246	7.58	36.21	46.00	-9.79
750.23	23.61	1.00	293	10.42	34.03	46.00	-11.97
873.90	24.47	1.00	3	13.91	38.38	46.00	-7.62

Test mode: IEEE 802.11g CH01 for 1GHz to 25GHz [Horizontal]

<i>Frequency</i>	<i>Ant. H.</i>	<i>Table</i>	<i>Amplitude</i>		<i>Correction Factor</i>	<i>Corrected Amplitude</i>		<i>Limit</i>		<i>Margin</i>
			<i>Peak / Ave.</i>			<i>Peak / Ave.</i>		<i>Peak / Ave.</i>		
<i>MHz</i>	<i>m</i>	<i>degree</i>	<i>dBμV</i>		<i>dB/m</i>	<i>dBμV/m</i>		<i>dBμV/m</i>		<i>dB</i>
3216.67	1.00	129	36.17	---	11.47	47.64	---	73.96	53.96	-6.32
7239.79	1.00	240	35.44	---	10.11	45.55	---	73.96	53.96	-8.41
9650.42	1.00	253	34.77	---	11.47	46.24	---	73.96	53.96	-7.72
12061.04	1.00	238	36.27	---	9.81	46.08	---	73.96	53.96	-7.88
19296.25	1.00	256	48.00	---	1.22	49.22	---	73.96	53.96	-4.74
21708.12	1.00	211	45.16	---	0.88	46.04	---	73.96	53.96	-7.92

Test mode: IEEE 802.11g CH01 for 1GHz to 25GHz [Vertical]

<i>Frequency</i>	<i>Ant. H.</i>	<i>Table</i>	<i>Amplitude</i>		<i>Correction Factor</i>	<i>Corrected Amplitude</i>		<i>Limit</i>		<i>Margin</i>
			<i>Peak / Ave.</i>			<i>Peak / Ave.</i>		<i>Peak / Ave.</i>		
<i>MHz</i>	<i>m</i>	<i>degree</i>	<i>dBμV</i>		<i>dB/m</i>	<i>dBμV/m</i>		<i>dBμV/m</i>		<i>dB</i>
4829.17	1.00	291	40.11	---	3.78	43.89	---	73.96	53.96	-10.07
7239.79	1.00	88	35.60	---	10.11	45.71	---	73.96	53.96	-8.25
9650.42	1.00	104	34.27	---	11.47	45.74	---	73.96	53.96	-8.22
16918.54	1.00	196	37.27	---	13.02	50.29	---	73.96	53.96	-3.67
19296.25	1.00	224	46.66	---	1.22	47.88	---	73.96	53.96	-6.08
21708.12	1.00	83	44.33	---	0.88	45.21	---	73.96	53.96	-8.75

Test mode: IEEE 802.11g CH06 for 30MHz to 1GHz [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table ()			Limit (dBμV/m)	Margin (dB)
67.59	27.39	1.00	164	1.55	28.94	40.00	-11.06
253.10	42.43	1.00	143	-4.08	38.35	46.00	-7.65
502.87	33.76	1.00	313	3.02	36.78	46.00	-9.22
625.34	26.70	1.00	171	7.58	34.28	46.00	-11.72
750.23	27.77	1.00	229	10.42	38.19	46.00	-7.81
875.11	22.49	1.00	264	13.94	36.43	46.00	-9.57

Test mode: IEEE 802.11g CH06 for 30MHz to 1GHz [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table ()			Limit (dBμV/m)	Margin (dB)
66.37	28.75	1.00	223	1.66	30.41	40.00	-9.59
253.10	41.17	1.00	98	-4.08	37.09	46.00	-8.91
288.26	38.76	1.00	121	-3.80	34.96	46.00	-11.04
528.34	28.86	1.00	310	4.10	32.96	46.00	-13.04
625.34	28.42	1.00	268	7.58	36.00	46.00	-10.00
873.90	24.86	1.00	360	13.91	38.77	46.00	-7.23

Test mode: IEEE 802.11g CH06 for 1GHz to 25GHz [Horizontal]

Frequency	Ant. H.	Table	Amplitude		Correction Factor	Corrected Amplitude		Limit		Margin
			Peak / Ave.			Peak / Ave.		Peak / Ave.		
MHz	m	degree	dBµV		dB/m	dBµV/m		dBµV/m		dB
7312.29	1.00	30	34.61	---	10.30	44.91	---	73.96	53.96	-9.05
9747.08	1.00	273	34.44	---	11.89	46.33	---	73.96	53.96	-7.63
12187.92	1.00	241	38.60	---	9.74	48.34	---	73.96	53.96	-5.62
19498.12	1.00	347	46.17	---	1.19	47.36	---	73.96	53.96	-6.60
21934.79	1.00	14	46.00	---	0.84	46.84	---	73.96	53.96	-7.12
24371.46	1.00	106	45.17	---	0.50	45.67	---	73.96	53.96	-8.29

Test mode: IEEE 802.11g CH06 for 1GHz to 25GHz [Vertical]

Frequency	Ant. H.	Table	Amplitude		Correction Factor	Corrected Amplitude		Limit		Margin
			Peak / Ave.			Peak / Ave.		Peak / Ave.		
MHz	m	degree	dBµV		dB/m	dBµV/m		dBµV/m		dB
3249.28	1.00	295	41.00	36.50	11.63	52.63	48.13	73.96	53.96	-5.83
4877.50	1.00	268	39.11	---	3.97	43.08	---	73.96	53.96	-10.88
7312.29	1.00	41	35.94	---	10.30	46.24	---	73.96	53.96	-7.72
9747.08	1.00	44	35.77	---	11.89	47.66	---	73.96	53.96	-6.30
12187.92	1.00	205	39.10	---	9.74	48.84	---	73.96	53.96	-5.12
19498.12	1.00	115	46.00	---	1.19	47.19	---	73.96	53.96	-6.77

Test mode: IEEE 802.11g CH11 for 30MHz to 1GHz [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table ()			Limit (dBμV/m)	Margin (dB)
65.16	27.81	1.00	151	1.77	29.58	40.00	-10.42
253.10	41.58	1.00	119	-4.08	37.50	46.00	-8.50
501.66	33.28	1.00	287	2.97	36.25	46.00	-9.75
625.34	27.62	1.00	171	7.58	35.20	46.00	-10.80
750.23	27.32	1.00	233	10.42	37.74	46.00	-8.26
875.11	22.37	1.00	263	13.94	36.31	46.00	-9.69

Test mode: IEEE 802.11g CH11 for 30MHz to 1GHz [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBμV)	Ant. H. (m)	Table ()			Limit (dBμV/m)	Margin (dB)
67.59	27.39	1.00	173	1.55	28.94	40.00	-11.06
253.10	41.77	1.00	100	-4.08	37.69	46.00	-8.31
288.26	38.83	1.00	56	-3.80	35.03	46.00	-10.97
624.12	28.45	1.00	232	7.53	35.98	46.00	-10.02
750.23	23.68	1.00	324	10.42	34.10	46.00	-11.90
873.90	24.68	1.00	351	13.91	38.59	46.00	-7.41

Test mode: IEEE 802.11g CH11 for 1GHz to 25GHz [Horizontal]

Frequency	Ant. H.	Table	Amplitude		Correction Factor	Corrected Amplitude		Limit		Margin
			Peak / Ave.			Peak / Ave.		Peak / Ave.		
MHz	m	degree	dBμV		dB/m	dBμV/m		dBμV/m		dB
3283.33	1.00	126	35.67	---	11.79	47.46	---	73.96	53.96	-6.50
7390.83	1.00	13	36.78	---	10.41	47.19	---	73.96	53.96	-6.77
9849.79	1.00	62	35.44	---	11.93	47.37	---	73.96	53.96	-6.59
12308.75	1.00	151	38.27	---	9.56	47.83	---	73.96	53.96	-6.13
19696.46	1.00	293	46.67	---	1.16	47.83	---	73.96	53.96	-6.13
22157.92	1.00	253	46.00	---	0.81	46.81	---	73.96	53.96	-7.15

Test mode: IEEE 802.11g CH11 for 1GHz to 25GHz [Vertical]

Frequency	Ant. H.	Table	Amplitude		Correction Factor	Corrected Amplitude		Limit		Margin
			Peak / Ave.			Peak / Ave.		Peak / Ave.		
MHz	m	degree	dBμV		dB/m	dBμV/m		dBμV/m		dB
3283.33	1.00	241	38.67	---	11.79	50.46	---	73.96	53.96	-3.50
7378.75	1.00	143	39.78	---	10.43	50.21	---	73.96	53.96	-3.75
9843.72	1.00	120	37.27	---	11.93	49.20	---	73.96	53.96	-4.76
12308.75	1.00	110	36.94	---	9.56	46.50	---	73.96	53.96	-7.46
19696.46	1.00	270	45.83	---	1.16	46.99	---	73.96	53.96	-6.97
24619.37	1.00	17	45.50	---	0.47	45.97	---	73.96	53.96	-7.99