



Test Report

Product Name : Wireless Broadband Router
Model No. : DI-524
FCC ID. : KA2DI524G

Applicant : D-Link Corporation
Address : No. 289, Sinhu 3rd Rd., Neihu District,
Taipei City 114, Taiwan, R.O.C.

Date of Receipt : 2006/02/21
Issued Date : 2006/03/08
Report No. : 062H034-RF-US-P05V01

The test results relate only to the samples tested.

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

Test Report Certification

Issued Date : 2006/03/08

Report No. : 062H034-RF-US-P05V01



Product Name : Wireless Broadband Router
 Applicant : D-Link Corporation
 Address : No. 289, Sinhu 3rd Rd., Neihu District, Taipei City 114,
 Taiwan, R.O.C.
 Manufacturer : Advance Multimedia Internet Technology
 Model No. : DI-524
 FCC ID. : KA2DI524G
 Rated Voltage : AC 120 V / 60 Hz
 EUT Voltage : AC 120 V / 60 Hz
 Trade Name : D-Link
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247:2005
 Test Result : Complied

The test results relate only to the samples tested.

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

Documented By : Demi Chang
 (Demi Chang)

Tested By : Louis Hsu
 (Louis Hsu)

Approved By : Bob Fang
 (Bob Fang)

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Reference : Laboratory of License

1. General Information

1.1. EUT Description

Product Name	Wireless Broadband Router
Trade Name	D-Link
Model No.	DI-524
Frequency Range	2412~2462MHz
Channel Number	11
Type of Modulation (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Type of Modulation (IEEE 802.11g)	Orthogonal Frequency Division Multiplexing (OFDM)
Data Speed (IEEE 802.11b)	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data Speed (IEEE 802.11g)	6Mbps,9Mbps,12Mbps,18Mbps,24Mbps,36Mbps,48Mbps,54Mbps
Antenna Gain	1.8dBi
Channel Control	Auto
Antenna Type	Connector
Antenna Joint Type	Reverse SMA

Component	
Power Adapter	D-Link, AM-0751500D Input: AC 120V/60Hz, 30W Output: DC 7.5V, 1500mA Cable Out: Non-Shielded, 1.8m

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
001	2412 MHz	002	2417 MHz	003	2422 MHz	004	2427 MHz
005	2432 MHz	006	2437 MHz	007	2442 MHz	008	2447 MHz
009	2452 MHz	010	2457 MHz	011	2462 MHz		

Note:

1. This device is a Wireless Broadband Router included a 2.4GHz receiving function, and 2.4GHz transmitting function.
2. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.
3. Regards to the frequency band operation; the highest rate that was included the lowest 、middle and highest frequency of channel were selected to perform the test, and then shown on this report.
4. This device is a composite device in accordance with Part 15 regulations. The function receiving was measured and made a test report that the report number is 062H034-RF-US-P01V02 under Declaration of Conformity.

1.2. Operational Description

EUT is a Wireless Broadband Router. This device provided four kinds of transmitting speed 1, 2, 5.5 and 11Mbps for IEEE 802.11b and eight kinds of transmitting speed 6, 9, 12, 18, 24, 36, 48 and 54Mbps for IEEE 802.11g. The device of RF carrier is DQPSK, DBPSK and CCK.

The device adapts Digitally Modulation Spread Spectrum modulation. The Connector antenna was provides diversity function to improve the receiving function.

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

The EUT is an 802.11g high-performance, wireless router that supports high-speed wireless networking at home, at work or in public places.

Unlike most routers, the EUT provides data transfers at up to 108 Mbps (compared to the standard 54 Mbps) when used with other same EUTs. The 802.11g standard is backwards compatible with 802.11b products. This means that you do not need to change your entire network to maintain connectivity. You may sacrifice some of 802.11g's speed when you mix 802.11b and 802.11g devices, but you will not lose the ability to communicate when you incorporate the 802.11g standard into your 802.11b network. You may choose to slowly change your network by gradually replacing the 802.11b devices with 802.11g devices.

In addition to offering faster data transfer speeds when used with other 802.11g products, the EUT has the newest, strongest, most advanced security features available today. When used with other 802.11g WPA (WiFi Protected Access) and 802.1x compatible products in a network with a RADIUS server, the security features include:

WPA: Wi-Fi Protected Access authorizes and identifies users based on a secret key that changes automatically at a regular interval. WPA uses TKIP (Temporal Key Integrity Protocol) to change the temporal key every 10,000 packets (a packet is a kind of message transmitted over a network.) This insures much greater security than the standard WEP security. (By contrast, the older WEP encryption required the keys to be changed manually.)

802.1x: Authentication is a first line of defense against intrusion. In the Authentication process the server verifies the identity of the client attempting to connect to the network. Unfamiliar clients would be denied access.

1.3. Test Mode

QuieTek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

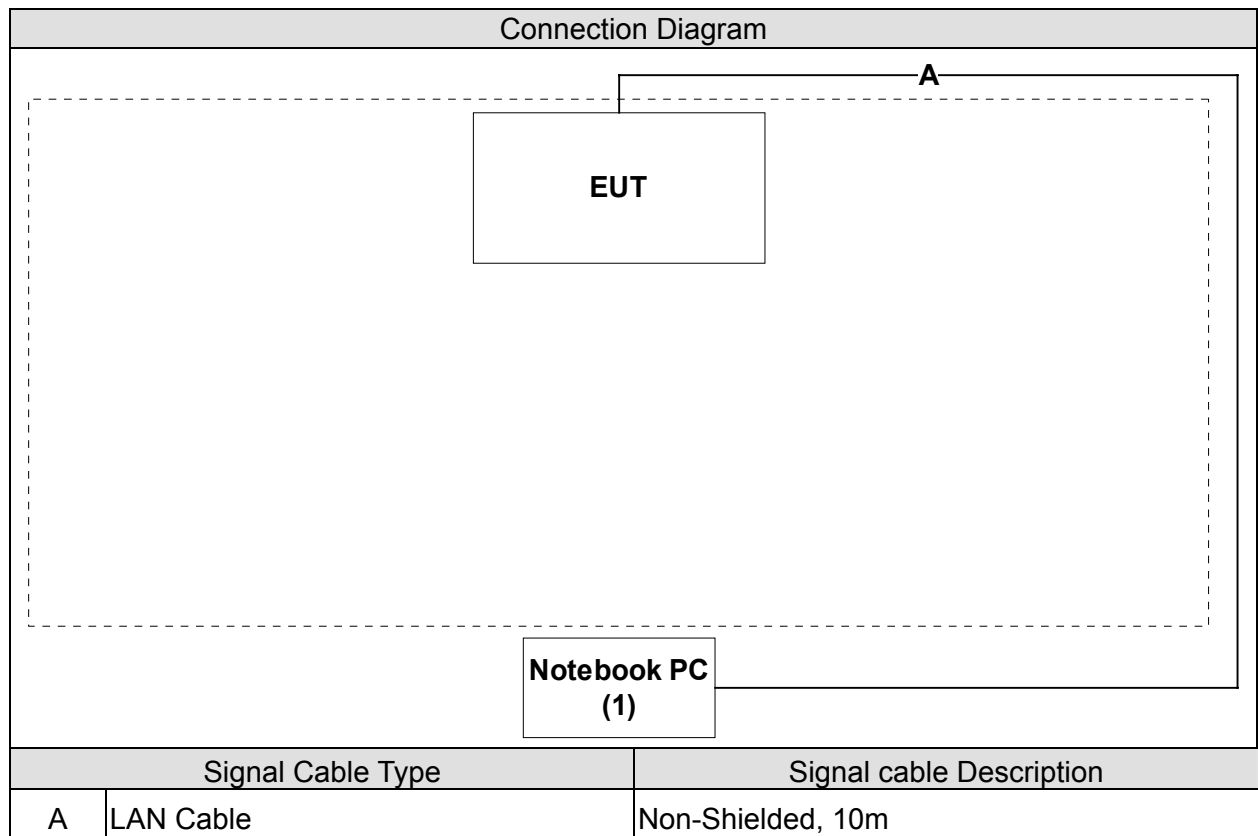
Pre-Test Mode	
EMI	Mode 1: Transmit
Final Test Mode	
TX	Mode 1: Transmit

1.4. Tested System Details

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

	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook PC	DELL	Latitude 600	N/A	Non-Shielded, 1.7m, one ferrite core bonded

1.5. Configuration of tested System



1.6. EUT Exercise Software

1	Setup the EUT and simulators as shown on 1.5.
2	Turn on the power of all equipment.
3	Boot the PC from Hard Disk.
4	Data will communicate between personal computer and partner personal computer through EUT.
5	The personal computer' s and partner computer' s monitor will show the transmitting and receiving characteristics when the communication is success.
6	Repeat the above procedure (4) to (5).

1.7. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual
Temperature (°C)	FCC PART 15 C 15.207 Conducted Emission	15 - 35	22
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Band Edge (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Peak Power Output (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Power Density (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission (DSSS)	15 - 35	25
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000

Site Description:

January 24, 2005 File on
Federal Communications Commission
Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 365520



Accredited by CNLA
Accreditation Number: 1313
Effective through: September 27, 2007



1313
ILAC MRA

Accredited by NVLAP
NVLAP Lab Code: 200347-0
Effective through: September 30, 2006



Site Name: Quietek Corporation
Site Address: No.75-1, Wang-Yeh Valley, Yung-Hsing,
Chiung-Lin, Hsin-Chu County,
Taiwan, R.O.C.

TEL : 886-3-592-8858 / FAX : 886-3-592-8859
E-Mail : service@quietek.com

2. Conducted Emission

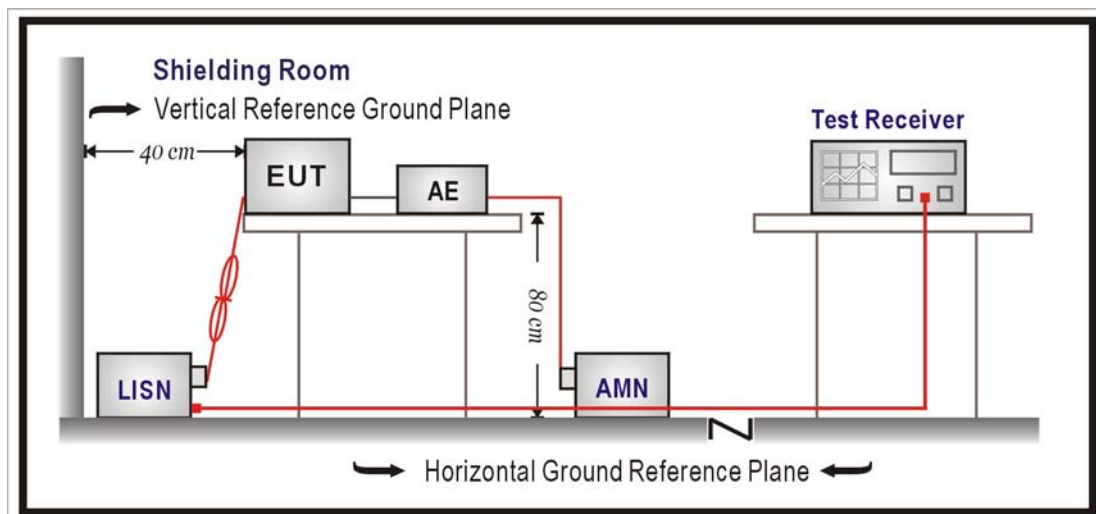
2.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.	Remark
1	4-Wire ISN	R & S	ENY 41/837032/001	Feb., 2006	
2	Double 2-Wire ISN	R & S	ENY 22/835354/008	Feb., 2006	Peripherals
3	LISN	R & S	ESH3-Z5/836679/022	Jun., 2006	EUT
4	LISN	R & S	ESH3-Z5/836679/013	Dec., 2006	
5	Pulse Limiter	R & S	ESH3-Z2/100411	Oct., 2006	
6	Test Receiver	R & S	ESCS 30/100149	Oct., 2006	
7	No.3 Shielded Room			N/A	

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

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency MHz	QP	AV
0.15 - 0.50	66-56	56-46
0.50-5.0	56	46
5.0 - 30	60	50

Remarks : In the above table, the tighter limit applies at the band edges.

2.4. Test Procedure

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

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

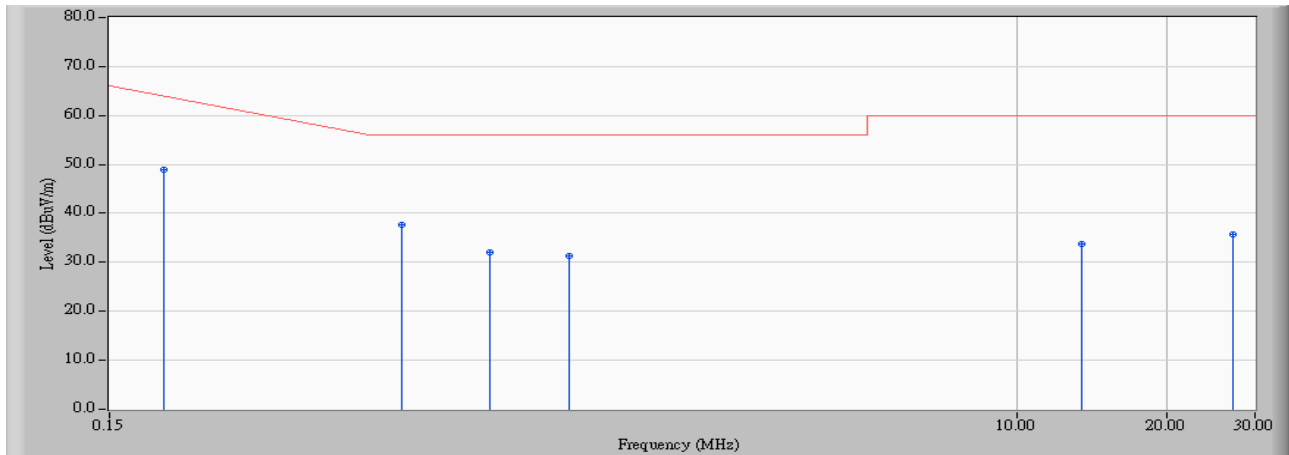
Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Test Specification

According to FCC CFR Title 47 Part 15 Subpart C Section 15.207:2005

2.6. Test Result

Site : QuieTek Shielding Room 3	Time : 2006/02/22 - 15:38
Limit : CISPR_B_00M_QP	Margin : 0
EUT : DI-524	Probe : SR3_LISN(16A) - Line1
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11b

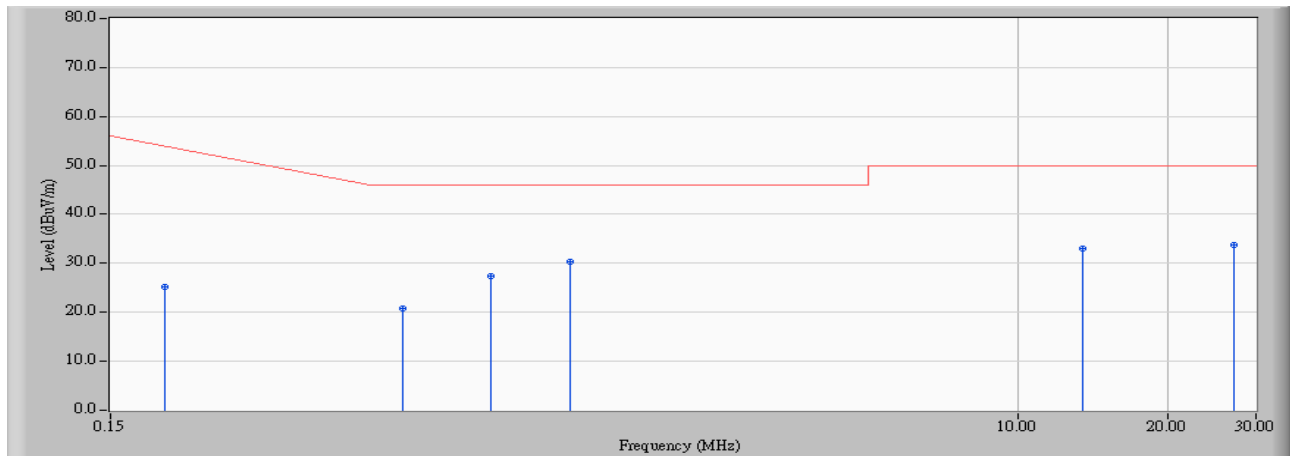


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.193	0.151	48.860	49.011	-15.760	64.771	QUASIPeAK
2		0.581	0.210	37.480	37.690	-18.310	56.000	QUASIPeAK
3		0.871	0.227	31.940	32.167	-23.833	56.000	QUASIPeAK
4		1.261	0.250	30.980	31.230	-24.770	56.000	QUASIPeAK
5		13.479	0.890	32.940	33.830	-26.170	60.000	QUASIPeAK
6		27.158	1.060	34.720	35.780	-24.220	60.000	QUASIPeAK

Note:

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

Site : QuieTek Shielding Room 3	Time : 2006/02/22 - 15:38
Limit : CISPR_B_00M_AV	Margin : 0
EUT : DI-524	Probe : SR3_LISN(16A) - Line1
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11b

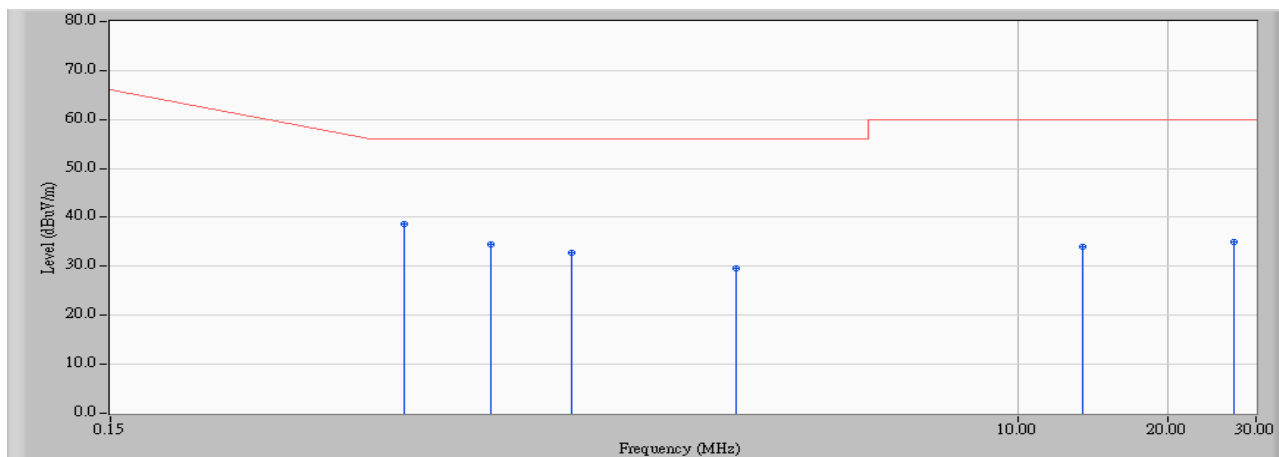


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.193	0.151	24.970	25.121	-29.650	54.771	AVERAGE
2		0.581	0.210	20.570	20.780	-25.220	46.000	AVERAGE
3		0.871	0.227	27.150	27.377	-18.623	46.000	AVERAGE
4	*	1.261	0.250	30.130	30.380	-15.620	46.000	AVERAGE
5		13.479	0.890	32.230	33.120	-16.880	50.000	AVERAGE
6		27.158	1.060	32.770	33.830	-16.170	50.000	AVERAGE

Note:

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

Site : QuieTek Shielding Room 3	Time : 2006/02/22 - 15:48
Limit : CISPR_B_00M_QP	Margin : 0
EUT : DI-524	Probe : SR3_LISN(16A) - Line2
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11b

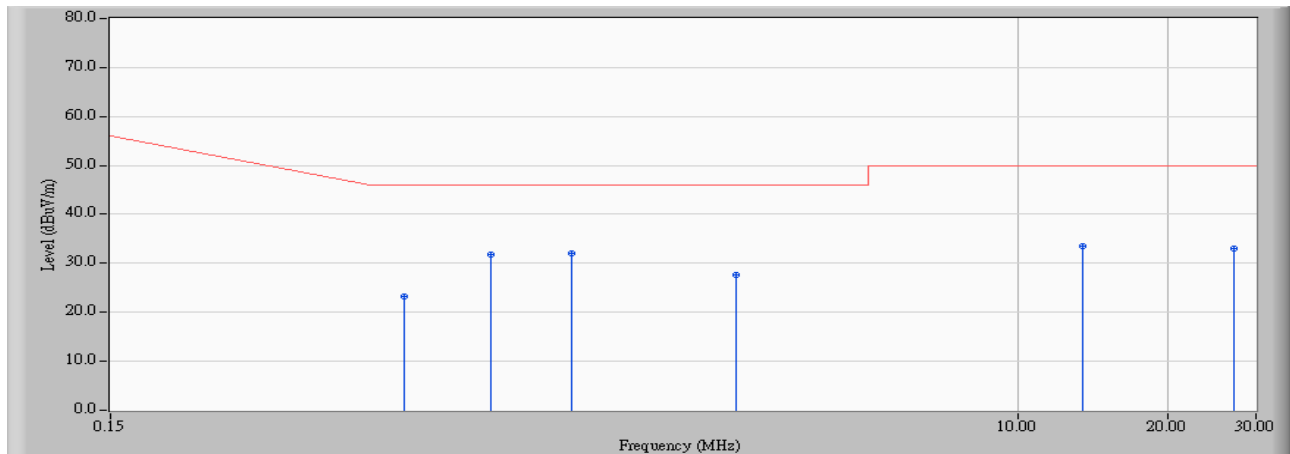


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.582	0.210	38.460	38.670	-17.330	56.000	QUASIPeAK
2		0.872	0.228	34.280	34.508	-21.492	56.000	QUASIPeAK
3		1.262	0.250	32.560	32.810	-23.190	56.000	QUASIPeAK
4		2.717	0.350	29.280	29.630	-26.370	56.000	QUASIPeAK
5		13.478	0.820	33.300	34.120	-25.880	60.000	QUASIPeAK
6		27.158	0.860	34.040	34.900	-25.100	60.000	QUASIPeAK

Note:

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

Site : QuieTek Shielding Room 3	Time : 2006/02/22 - 15:48
Limit : CISPR_B_00M_AV	Margin : 0
EUT : DI-524	Probe : SR3_LISN(16A) - Line2
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11b

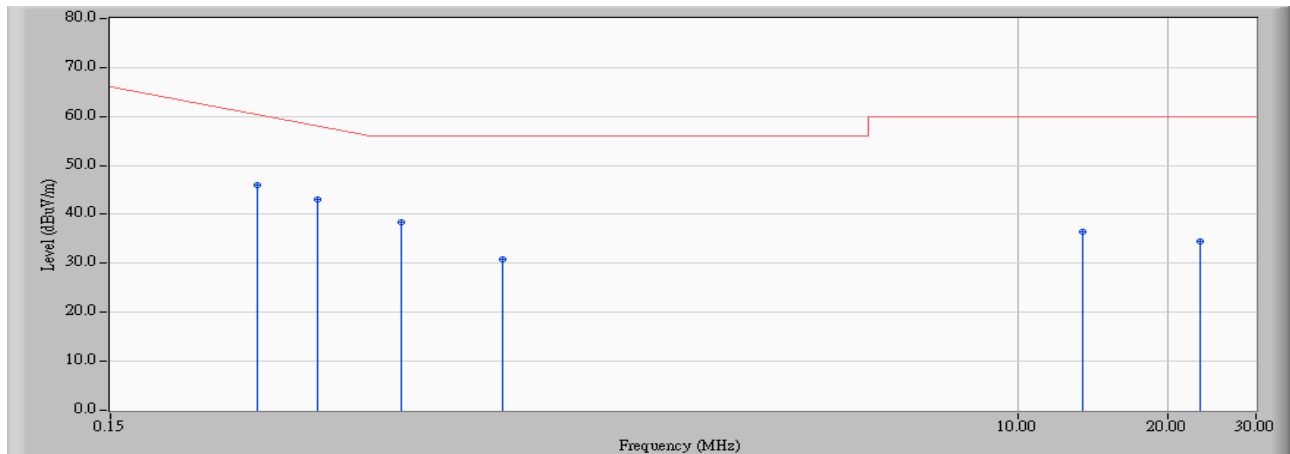


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.582	0.210	23.150	23.360	-22.640	46.000	AVERAGE
2		0.872	0.228	31.550	31.778	-14.222	46.000	AVERAGE
3	*	1.262	0.250	31.840	32.090	-13.910	46.000	AVERAGE
4		2.717	0.350	27.390	27.740	-18.260	46.000	AVERAGE
5		13.478	0.820	32.660	33.480	-16.520	50.000	AVERAGE
6		27.158	0.860	32.180	33.040	-16.960	50.000	AVERAGE

Note:

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

Site : QuieTek Shielding Room 3	Time : 2006/02/22 - 17:26
Limit : CISPR_B_00M_QP	Margin : 0
EUT : DI-524	Probe : SR3_LISN(16A) - Line1
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11g

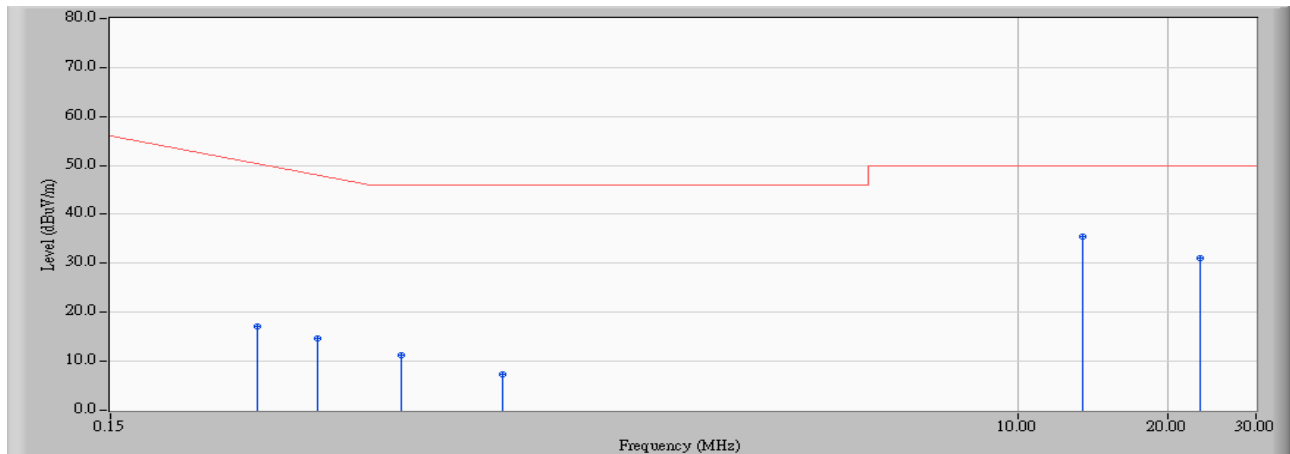


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.295	0.175	45.900	46.075	-15.782	61.857	QUASIPeAK
2		0.392	0.198	42.900	43.098	-15.988	59.086	QUASIPeAK
3		0.576	0.210	38.180	38.390	-17.610	56.000	QUASIPeAK
4		0.920	0.230	30.500	30.730	-25.270	56.000	QUASIPeAK
5		13.420	0.890	35.620	36.510	-23.490	60.000	QUASIPeAK
6		23.127	1.060	33.400	34.460	-25.540	60.000	QUASIPeAK

Note:

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

Site : QuieTek Shielding Room 3	Time : 2006/02/22 - 17:26
Limit : CISPR_B_00M_AV	Margin : 0
EUT : DI-524	Probe : SR3_LISN(16A) - Line1
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11g

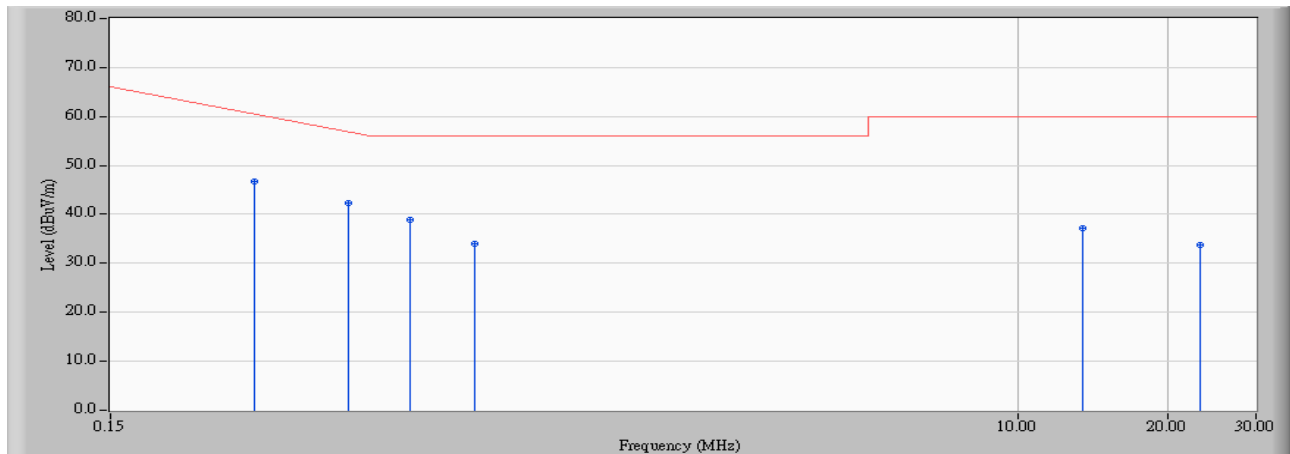


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.295	0.175	16.890	17.065	-34.792	51.857	AVERAGE
2		0.392	0.198	14.440	14.638	-34.448	49.086	AVERAGE
3		0.576	0.210	11.110	11.320	-34.680	46.000	AVERAGE
4		0.920	0.230	7.230	7.460	-38.540	46.000	AVERAGE
5	*	13.420	0.890	34.540	35.430	-14.570	50.000	AVERAGE
6		23.127	1.060	29.990	31.050	-18.950	50.000	AVERAGE

Note:

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

Site : QuieTek Shielding Room 3	Time : 2006/02/22 - 17:36
Limit : CISPR_B_00M_QP	Margin : 0
EUT : DI-524	Probe : SR3_LISN(16A) - Line2
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11g

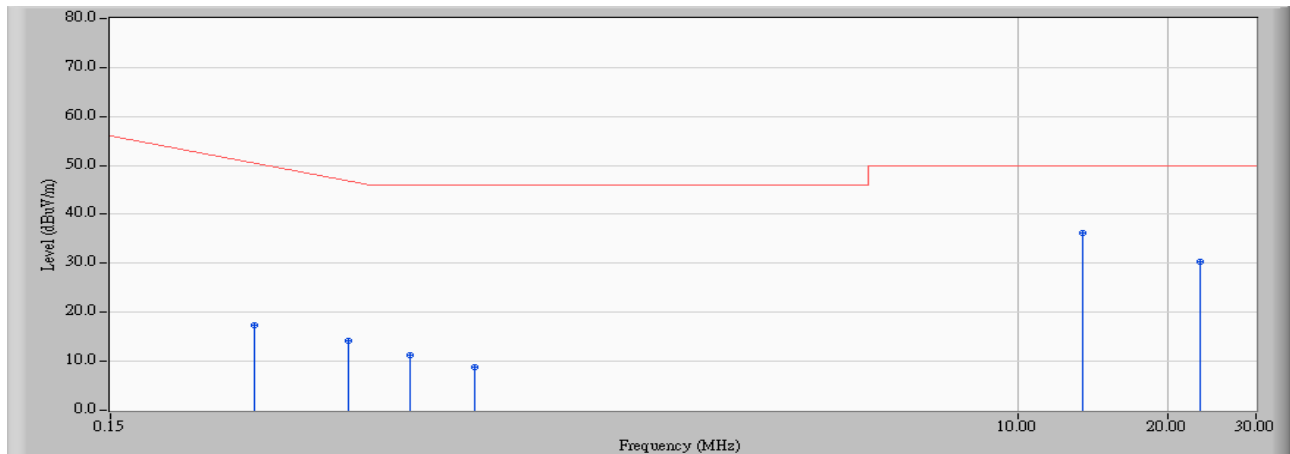


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.291	0.174	46.580	46.754	-15.217	61.971	QUASIPeAK
2	*	0.451	0.200	42.160	42.360	-15.040	57.400	QUASIPeAK
3		0.599	0.210	38.720	38.930	-17.070	56.000	QUASIPeAK
4		0.806	0.220	33.860	34.080	-21.920	56.000	QUASIPeAK
5		13.420	0.820	36.380	37.200	-22.800	60.000	QUASIPeAK
6		23.126	0.900	32.960	33.860	-26.140	60.000	QUASIPeAK

Note:

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

Site : QuieTek Shielding Room 3	Time : 2006/02/22 - 17:36
Limit : CISPR_B_00M_AV	Margin : 0
EUT : DI-524	Probe : SR3_LISN(16A) - Line2
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11g



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.291	0.174	17.200	17.374	-34.597	51.971	AVERAGE
2		0.451	0.200	13.890	14.090	-33.310	47.400	AVERAGE
3		0.599	0.210	11.110	11.320	-34.680	46.000	AVERAGE
4		0.806	0.220	8.690	8.910	-37.090	46.000	AVERAGE
5	*	13.420	0.820	35.490	36.310	-13.690	50.000	AVERAGE
6		23.126	0.900	29.470	30.370	-19.630	50.000	AVERAGE

Note:

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

2.7. Test Photo

Test Mode : Mode 1: Transmit

Description : Front View of Conducted Emission Test Setup



Test Mode : Mode 1: Transmit

Description : Back View of Conducted Emission Test Setup



3. Peak Power Output

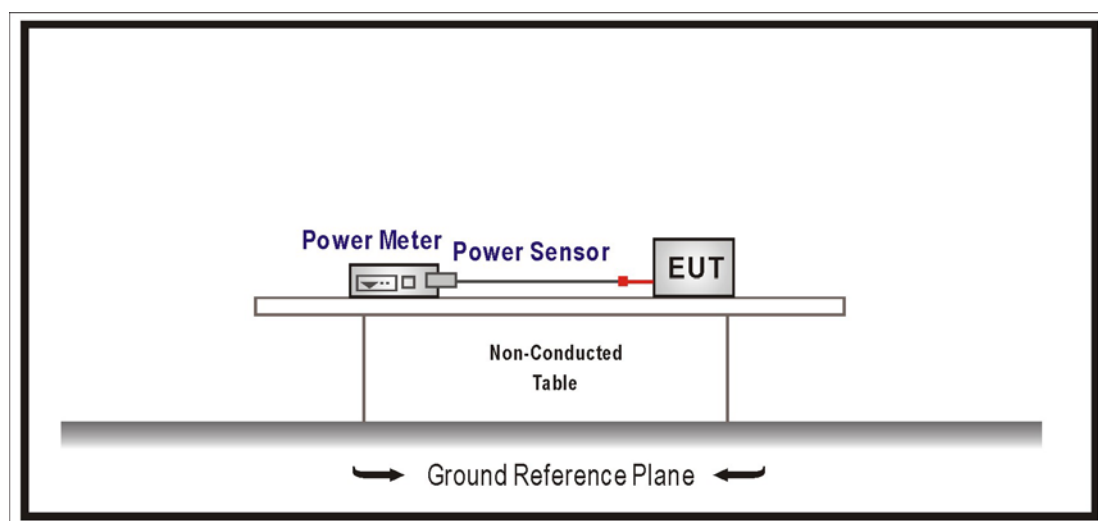
3.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Power Meter	Agilent	E4416A / GB41291630	May, 2006
2	Power Sensor	Agilent	E9323A / US40411166	Apr., 2005
3	No.1 OATS			Sep., 2005

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

3.2. Test Setup



3.3. Limits

The maximum peak power shall be less 1 Watt.

3.4. Test Specification

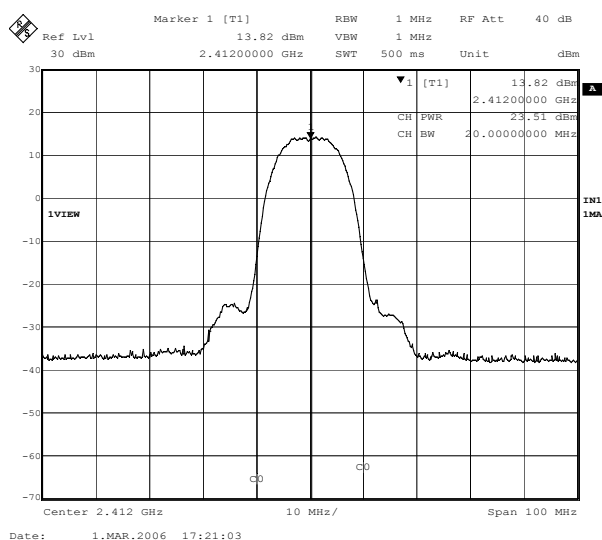
According to FCC CFR Title 47 Part 15 Subpart C Section 15.247:2005

3.5. Test Result

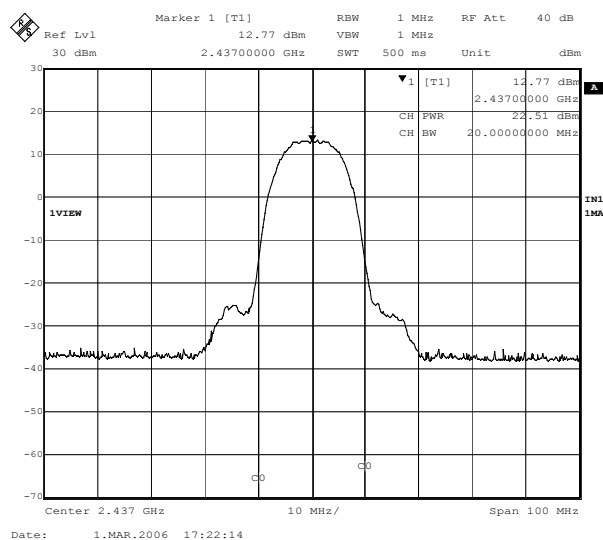
Product	Wireless Broadband Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2006/03/01	Test Site	No.1 OATS

IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	23.51	1Watt= 30 dBm	Pass
6	2437	22.51	1Watt= 30 dBm	Pass
11	2462	22.63	1Watt= 30 dBm	Pass

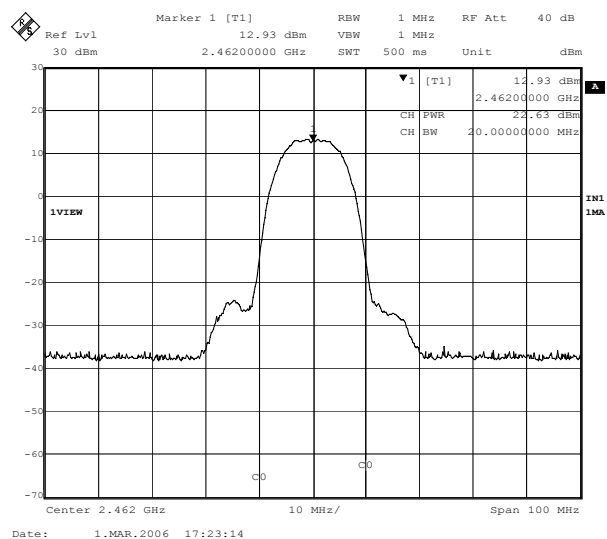
Channel 1



Channel 6



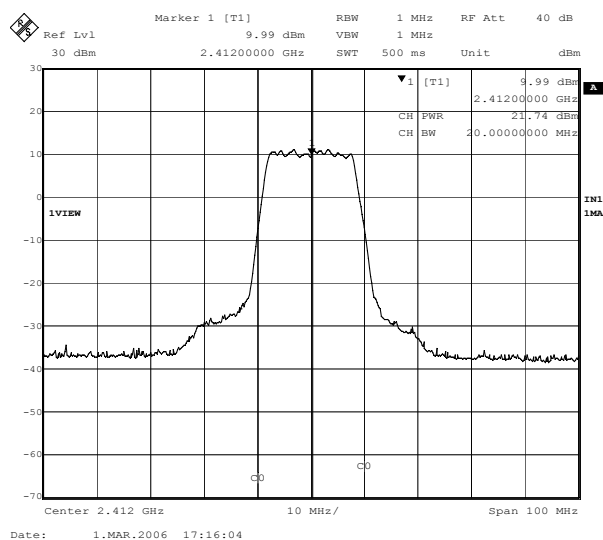
Channel 11



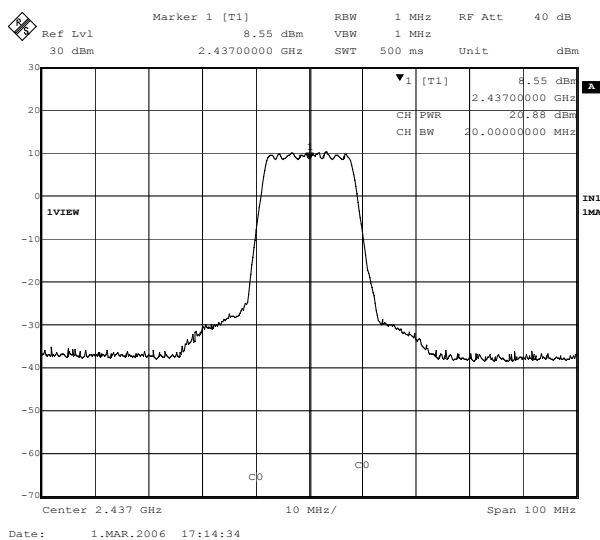
Product	Wireless Broadband Router		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2006/03/01	Test Site	No.1 OATS

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	21.74	1Watt= 30 dBm	Pass
6	2437	20.88	1Watt= 30 dBm	Pass
11	2462	21.06	1Watt= 30 dBm	Pass

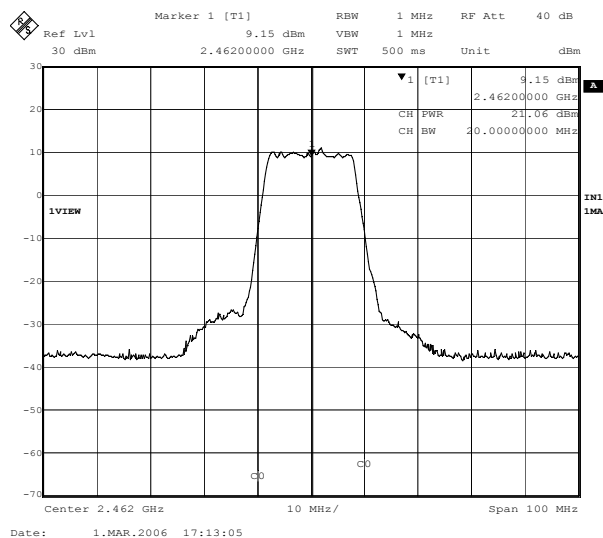
Channel 1



Channel 6



Channel 11



4. Radiated Emission

4.1. Test Equipment

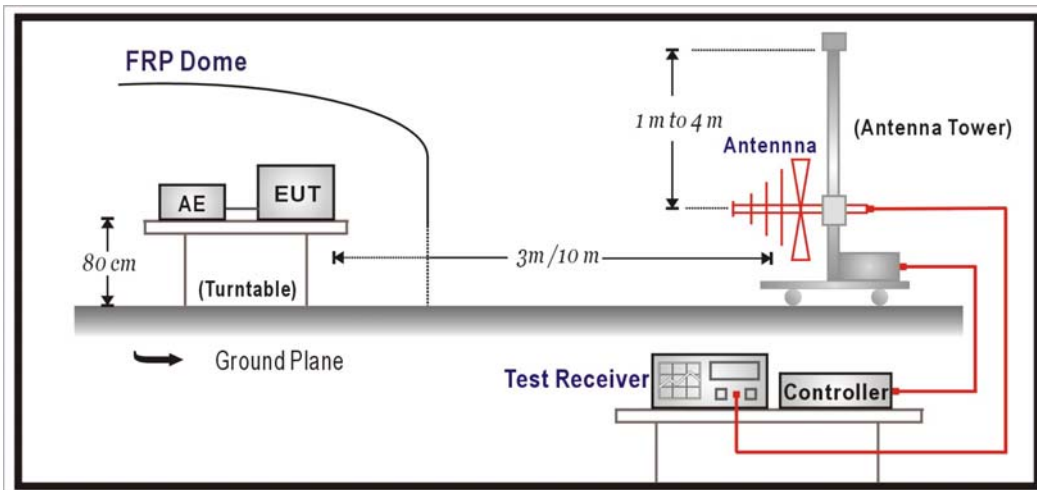
The following test equipment are used during the test:

Item		Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	X	Test Receiver	R & S	ESCS 30 / 825442/017	Jan., 2006
2	X	Spectrum Analyzer	Advantest	R3261C / 81720266	N/A
3	X	Pre-Amplifier	HP	8447D / 2944A09276	N/A
4	X	Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2005
5	X	Spectrum Analyzer	R & S	FSP40 / 100005	Aug., 2005
6	X	Pre-Amplifier	HP	8449B / 3008A01123	Feb., 2006
7	X	Horn Antenna	Schwarzbeck	BBHA 9120D / BBHA9120D312	Jul., 2005
8		No.1 OATS			Sep., 2005

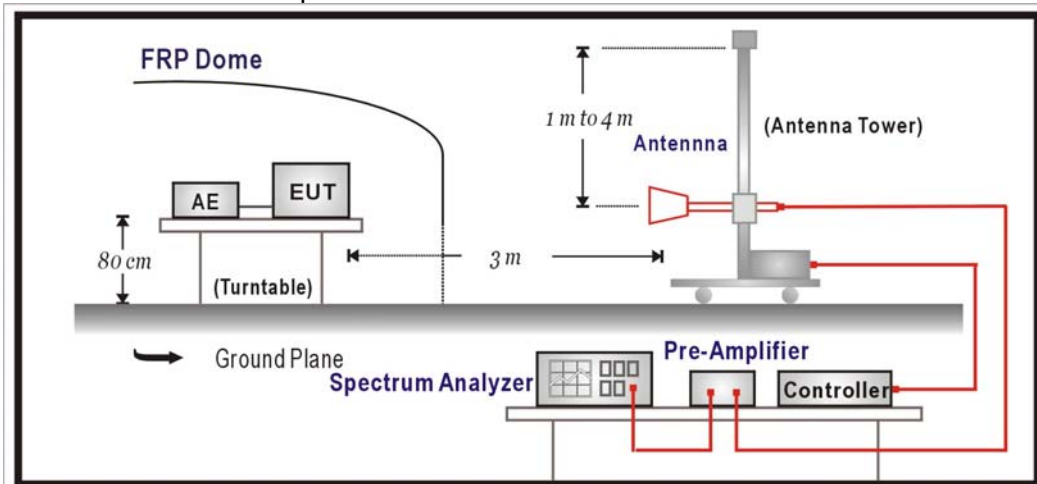
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.
2. Mark "X" test instruments are used to measure the final test results.

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limits

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

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

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

4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

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

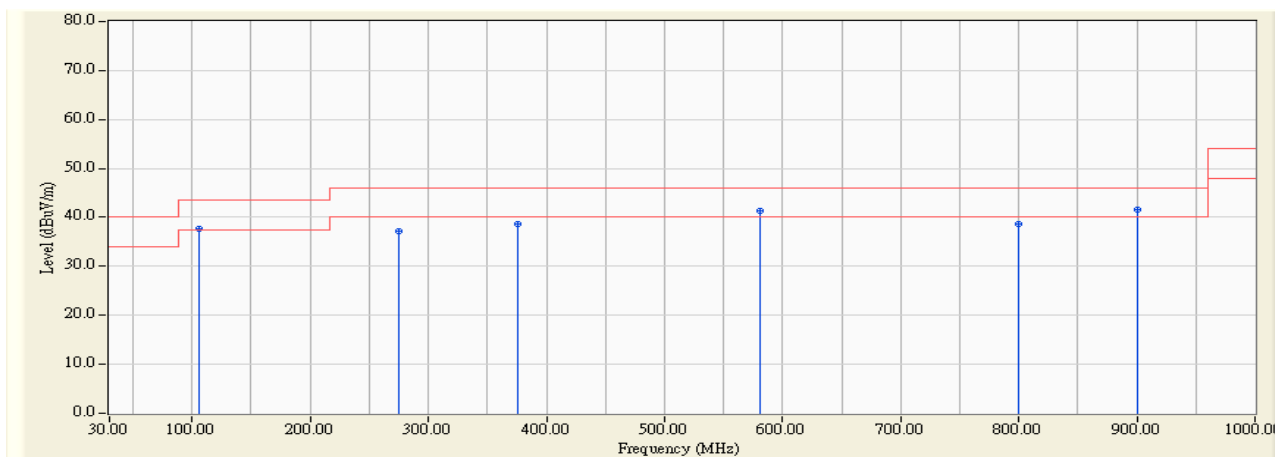
On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit. The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

4.5. Test Specification

According to FCC CFR Title 47 Part 15 Subpart C Section 15.209:2005

4.6. Test Result

Site : No.1 OATS	Time : 2006/03/02 - 20:21
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : DI-524	Probe : RF_30-1G(2005) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11b 2412MHz

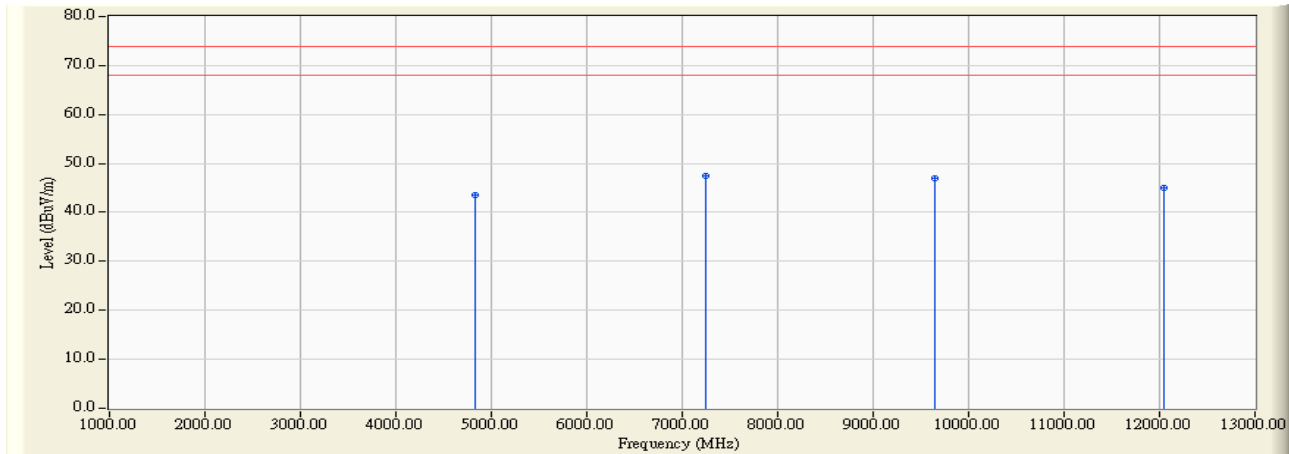


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		105.660	-3.469	41.119	37.650	-5.850	43.500	QUASIPeAK	0.000	0.000
2		274.440	-5.216	42.406	37.190	-8.810	46.000	QUASIPeAK	0.000	0.000
3		375.320	-5.419	44.179	38.760	-7.240	46.000	QUASIPeAK	0.000	0.000
4	*	580.960	1.200	40.213	41.413	-4.587	46.000	QUASIPeAK	0.000	0.000
5		800.180	3.461	35.079	38.540	-7.460	46.000	QUASIPeAK	0.000	0.000
6	*	901.060	4.516	37.164	41.680	-4.320	46.000	QUASIPeAK	0.000	0.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : No.1 OATS	Time : 2006/02/27 - 17:46
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : DI-524	Probe : RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11b 2412MHz

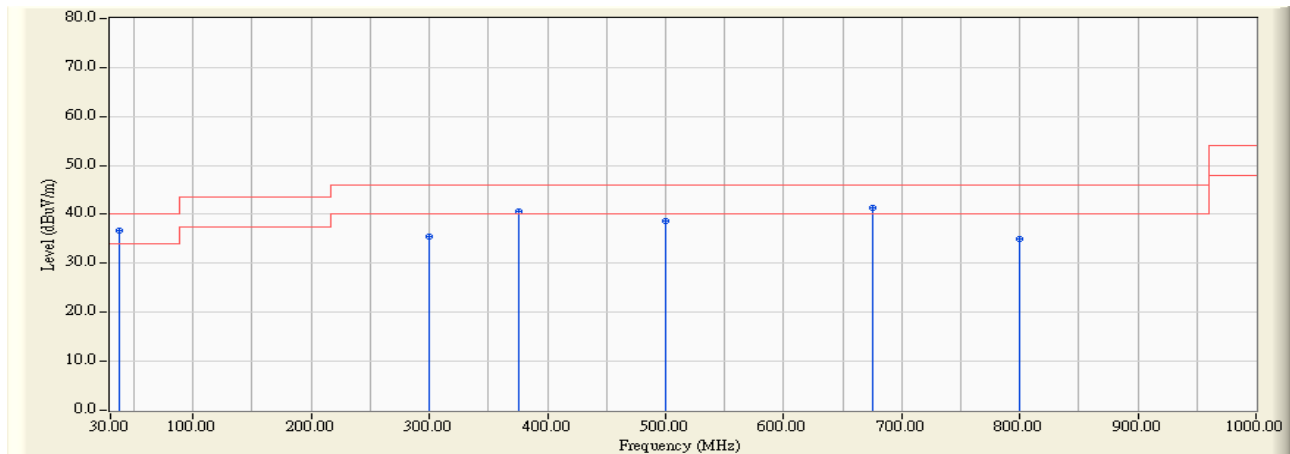


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		4824.300	2.774	40.880	43.653	-30.347	74.000	PEAK	0.000	0.000
2	*	7239.100	8.004	39.480	47.484	-26.516	74.000	PEAK	0.000	0.000
3		9639.900	11.520	35.330	46.850	-27.150	74.000	PEAK	0.000	0.000
4		12047.900	12.396	32.580	44.976	-29.024	74.000	PEAK	0.000	0.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : No.1 OATS	Time : 2006/03/02 - 20:24
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : DI-524	Probe : RF_30-1G(2005) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11b 2412MHz

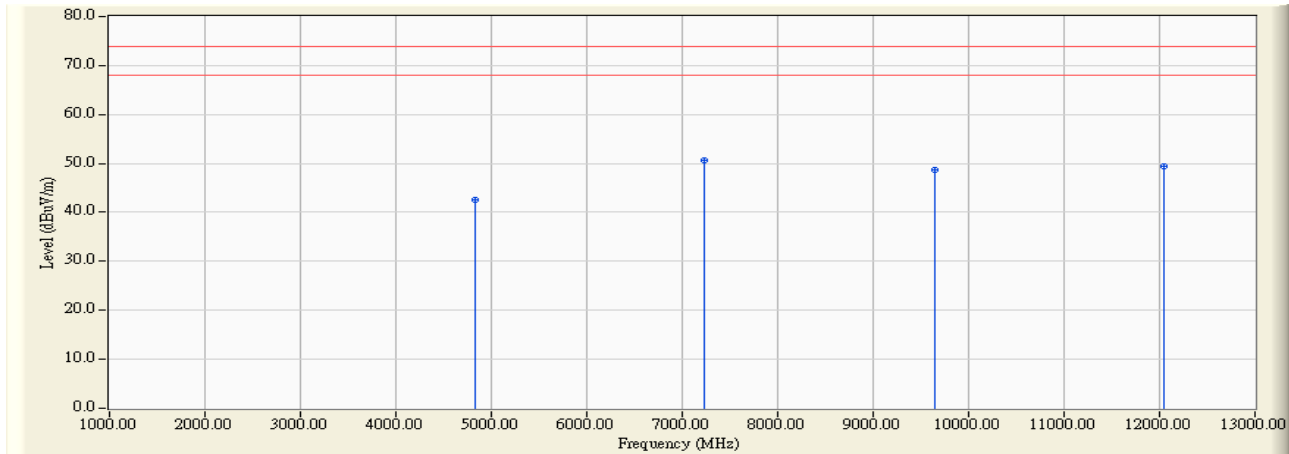


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	37.760	-3.308	40.098	36.790	-3.210	40.000	QUASIPeAK	0.000	0.000
2		299.660	-8.268	43.758	35.490	-10.510	46.000	QUASIPeAK	0.000	0.000
3		375.320	-0.789	41.319	40.530	-5.470	46.000	QUASIPeAK	0.000	0.000
4		499.480	-0.324	38.864	38.540	-7.460	46.000	QUASIPeAK	0.000	0.000
5		676.020	1.300	39.970	41.270	-4.730	46.000	QUASIPeAK	0.000	0.000
6		800.180	2.971	31.919	34.890	-11.110	46.000	QUASIPeAK	0.000	0.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : No.1 OATS	Time : 2006/02/27 - 17:51
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : DI-524	Probe : RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11b 2412MHz

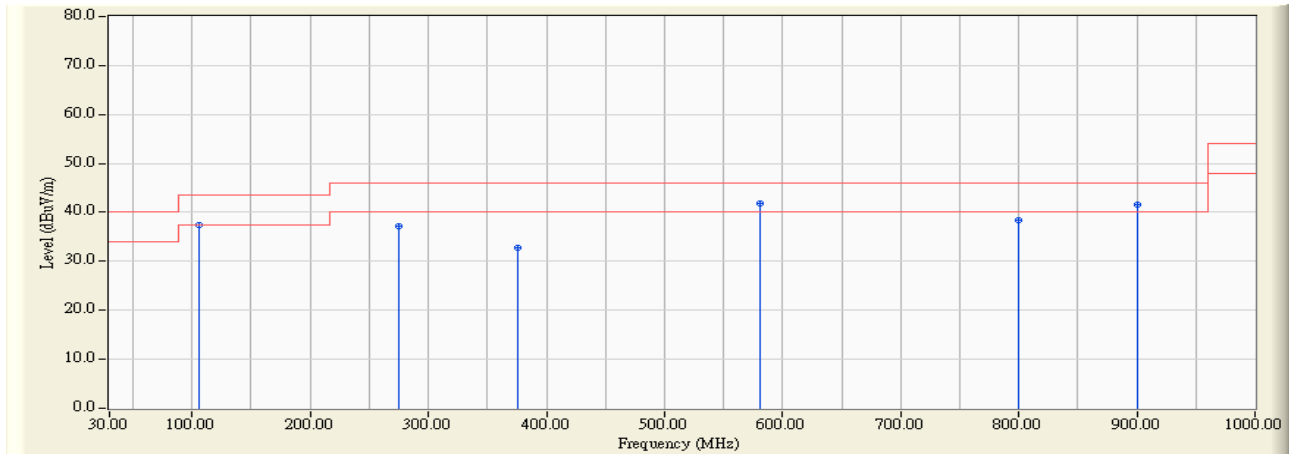


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		4824.100	1.021	41.470	42.491	-31.509	74.000	QUASIPeAK	0.000	0.000
2	*	7234.500	7.970	42.590	50.560	-23.440	74.000	QUASIPeAK	0.000	0.000
3		9639.900	13.520	35.260	48.780	-25.220	74.000	QUASIPeAK	0.000	0.000
4		12047.900	15.436	33.950	49.386	-24.614	74.000	QUASIPeAK	0.000	0.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : No.1 OATS	Time : 2006/03/02 - 20:28
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : DI-524	Probe : RF_30-1G(2005) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11b 2437MHz

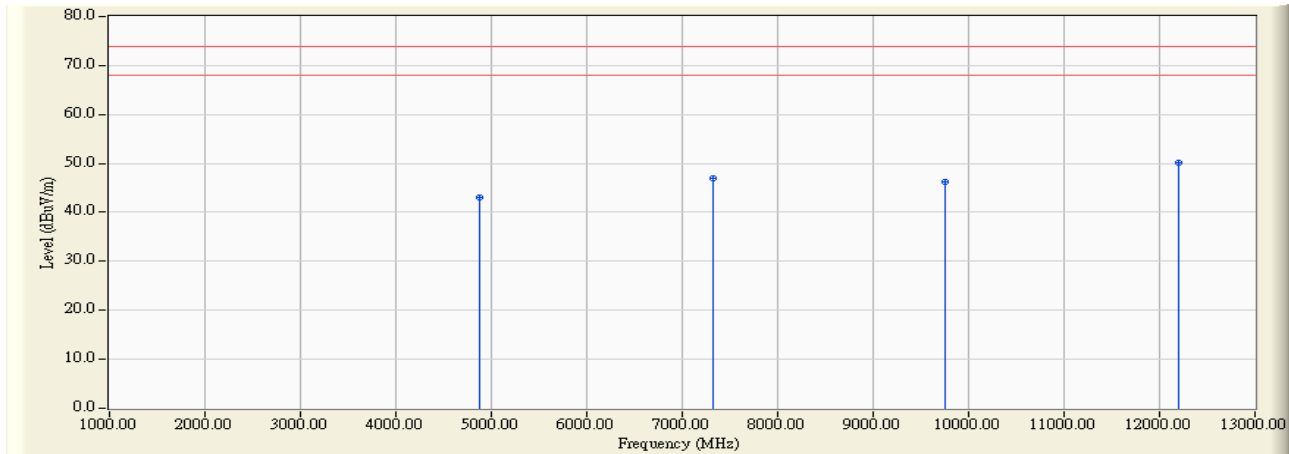


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		105.685	-3.472	41.025	37.553	-5.947	43.500	QUASIPeAK	0.000	0.000
2		274.563	-5.217	42.331	37.114	-8.886	46.000	QUASIPeAK	0.000	0.000
3		375.864	-5.387	38.248	32.862	-13.138	46.000	QUASIPeAK	0.000	0.000
4	*	580.960	1.200	40.534	41.734	-4.266	46.000	QUASIPeAK	0.000	0.000
5		800.176	3.461	35.068	38.529	-7.471	46.000	QUASIPeAK	0.000	0.000
6		901.024	4.517	37.188	41.705	-4.295	46.000	QUASIPeAK	0.000	0.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : No.1 OATS	Time : 2006/02/27 - 18:01
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : DI-524	Probe : RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11b 2437MHz

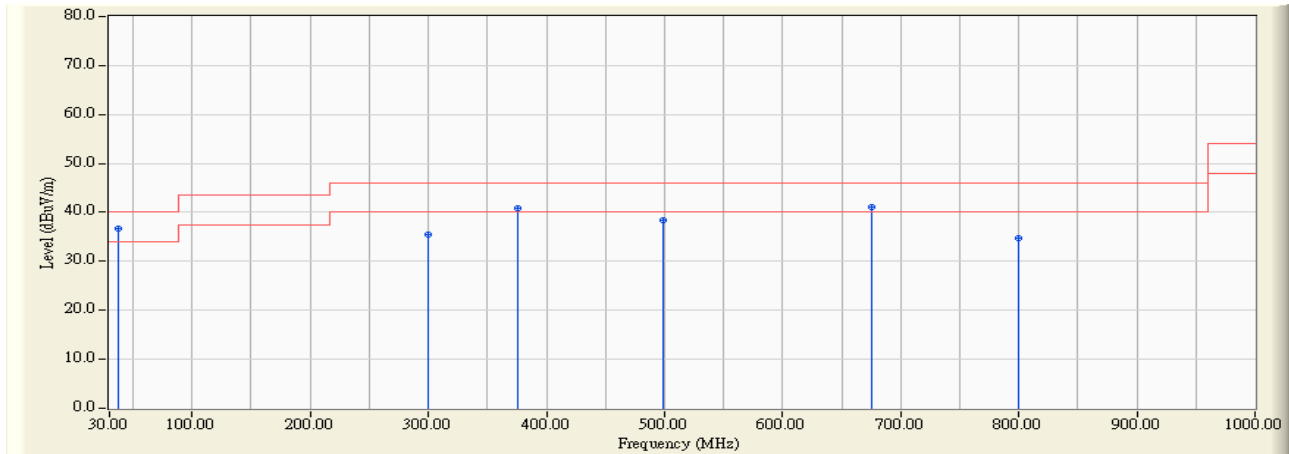


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		4874.100	3.004	40.060	43.065	-30.935	74.000	QUASIPeAK	0.000	0.000
2	*	7315.600	8.589	38.350	46.939	-27.061	74.000	QUASIPeAK	0.000	0.000
3		9754.000	11.611	34.620	46.232	-27.768	74.000	QUASIPeAK	0.000	0.000
4	*	12194.000	17.255	32.900	50.154	-23.846	74.000	QUASIPeAK	0.000	0.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : No.1 OATS	Time : 2006/03/02 - 20:30
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : DI-524	Probe : RF_30-1G(2005) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11b 2437MHz

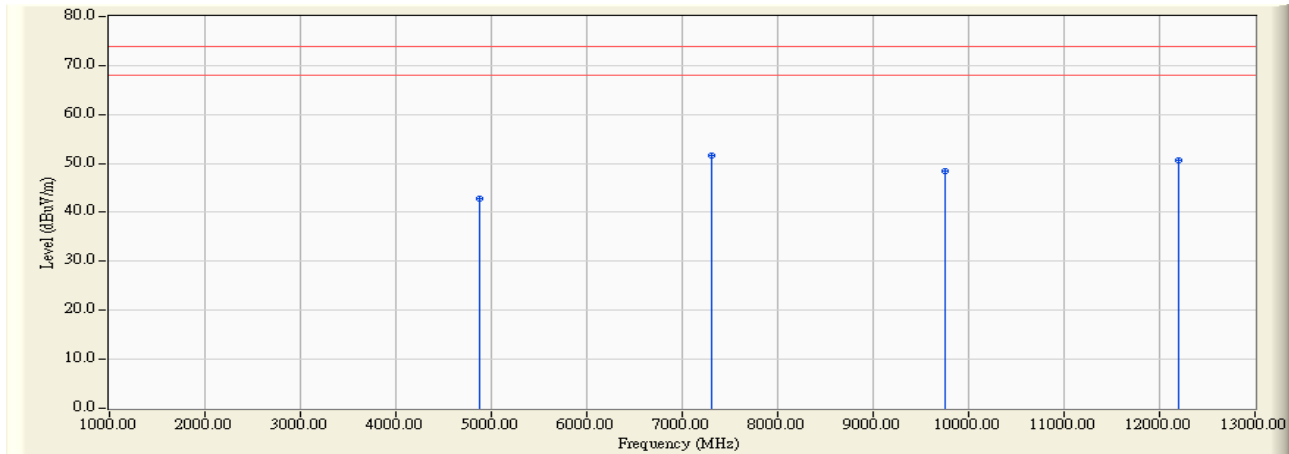


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	37.752	-3.311	40.085	36.774	-3.226	40.000	QUASIPeAK	0.000	0.000
2		299.684	-8.264	43.771	35.507	-10.493	46.000	QUASIPeAK	0.000	0.000
3		375.386	-0.787	41.556	40.770	-5.230	46.000	QUASIPeAK	0.000	0.000
4		499.301	-0.342	38.637	38.295	-7.705	46.000	QUASIPeAK	0.000	0.000
5		676.034	1.300	39.764	41.064	-4.936	46.000	QUASIPeAK	0.000	0.000
6		800.223	2.968	31.687	34.655	-11.345	46.000	QUASIPeAK	0.000	0.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : No.1 OATS	Time : 2006/02/27 - 18:05
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : DI-524	Probe : RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11b 2437MHz

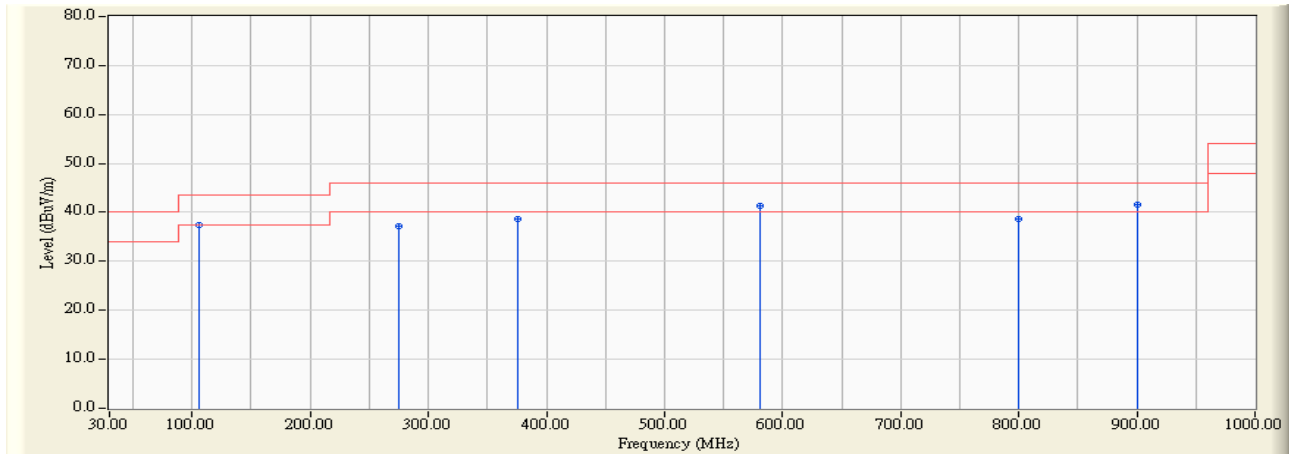


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		4874.000	1.351	41.480	42.831	-31.169	74.000	PEAK	0.000	0.000
2	*	7308.800	8.531	43.160	51.691	-22.309	74.000	PEAK	0.000	0.000
3		9753.800	13.610	34.900	48.511	-25.489	74.000	PEAK	0.000	0.000
4		12193.800	17.870	32.830	50.700	-23.300	74.000	PEAK	0.000	0.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : No.1 OATS	Time : 2006/03/02 - 20:33
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : DI-524	Probe : RF_30-1G(2005) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11b 2462MHz

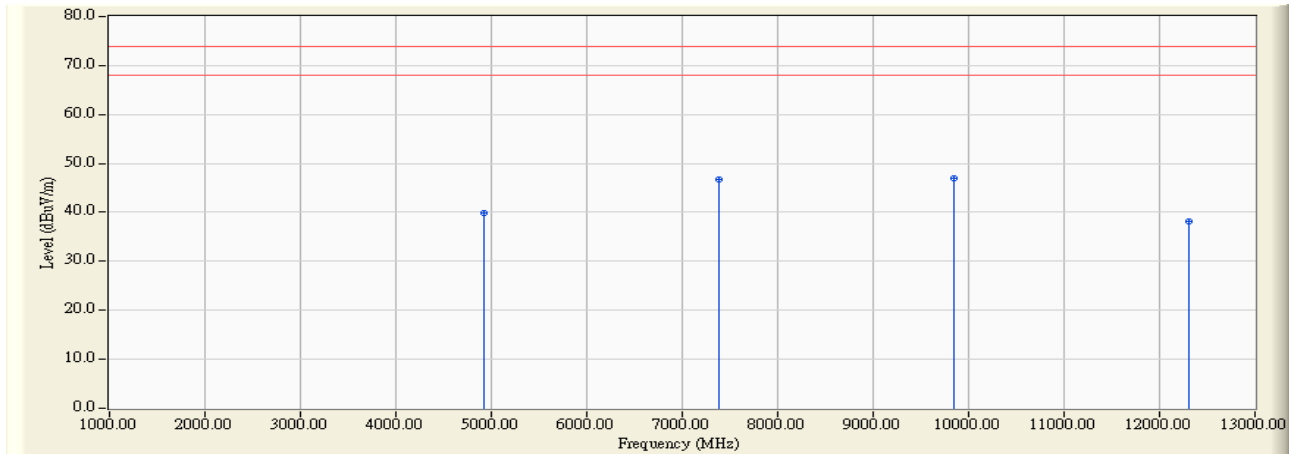


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		105.684	-3.472	41.021	37.549	-5.951	43.500	QUASIPeAK	0.000	0.000
2		274.425	-5.216	42.310	37.094	-8.906	46.000	QUASIPeAK	0.000	0.000
3		375.274	-5.421	44.013	38.592	-7.408	46.000	QUASIPeAK	0.000	0.000
4	*	580.885	1.219	40.020	41.238	-4.762	46.000	QUASIPeAK	0.000	0.000
5		800.124	3.463	35.070	38.533	-7.467	46.000	QUASIPeAK	0.000	0.000
6	*	901.023	4.517	37.010	41.527	-4.473	46.000	QUASIPeAK	0.000	0.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : No.1 OATS	Time : 2006/02/28 - 15:32
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : DI-524	Probe : RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11b 2462MHz

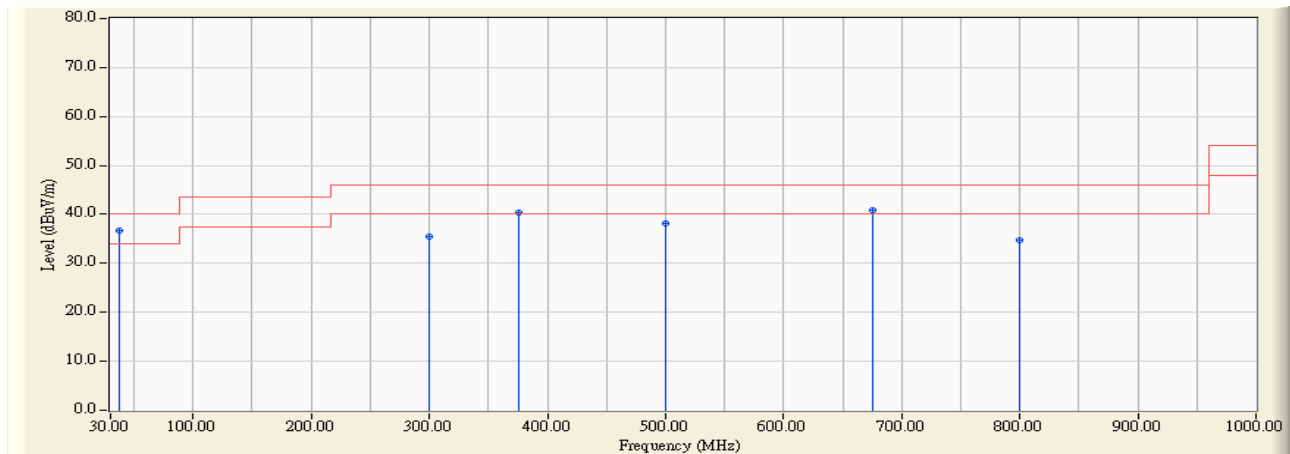


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	4924.180	3.218	36.760	39.979	-34.021	74.000	PEAK	0.000	0.000
2	7386.100	9.131	37.510	46.641	-27.359	74.000	PEAK	0.000	0.000
3	* 9848.300	12.060	34.820	46.881	-27.119	74.000	PEAK	0.000	0.000
4	12310.200	4.153	34.070	38.223	-35.777	74.000	PEAK	0.000	0.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : No.1 OATS	Time : 2006/03/02 - 20:35
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : DI-524	Probe : RF_30-1G(2005) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11b 2462MHz

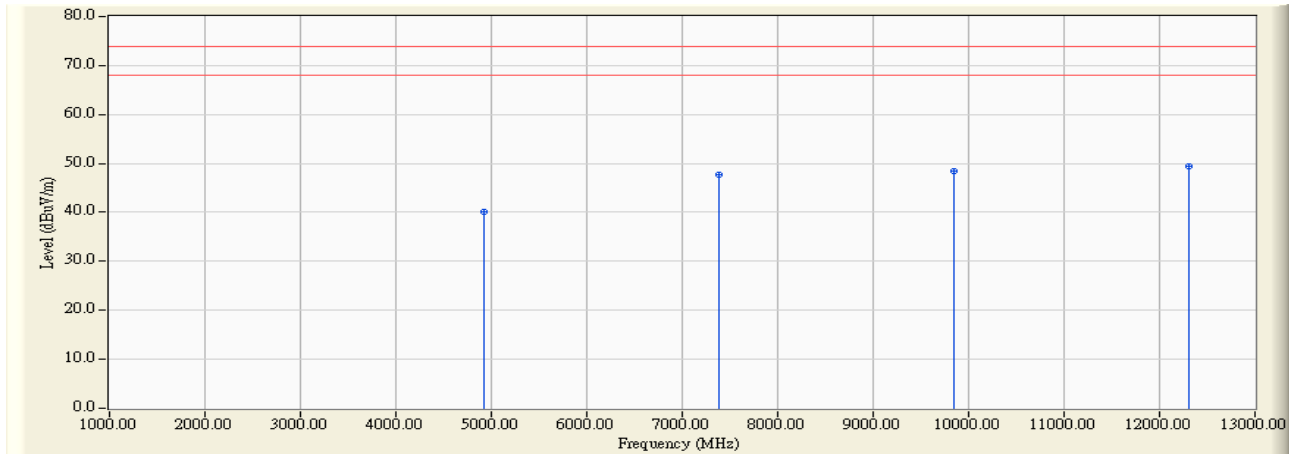


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	37.852	-3.276	40.022	36.747	-3.253	40.000	QUASIPeAK	0.000	0.000
2		299.740	-8.253	43.711	35.457	-10.543	46.000	QUASIPeAK	0.000	0.000
3		375.241	-0.795	41.213	40.418	-5.582	46.000	QUASIPeAK	0.000	0.000
4		499.467	-0.325	38.542	38.217	-7.783	46.000	QUASIPeAK	0.000	0.000
5		676.015	1.300	39.644	40.944	-5.056	46.000	QUASIPeAK	0.000	0.000
6		800.176	2.971	31.856	34.827	-11.173	46.000	QUASIPeAK	0.000	0.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : No.1 OATS	Time : 2006/02/28 - 15:36
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : DI-524	Probe : RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11b 2462MHz

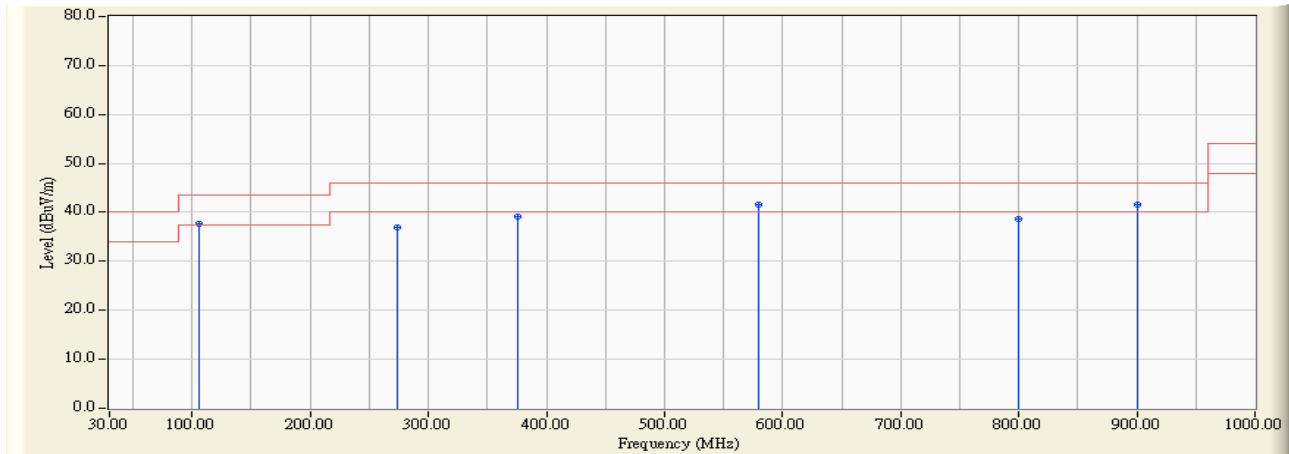


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		4924.700	1.676	38.510	40.185	-33.815	74.000	PEAK	0.000	0.000
2		7386.100	9.131	38.680	47.811	-26.189	74.000	PEAK	0.000	0.000
3	*	9848.010	13.578	34.830	48.408	-25.592	74.000	PEAK	0.000	0.000
4	*	12310.400	15.708	33.830	49.538	-24.462	74.000	PEAK	0.000	0.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : No.1 OATS	Time : 2006/03/02 - 20:37
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : DI-524	Probe : RF_30-1G(2005) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11g 2412MHz

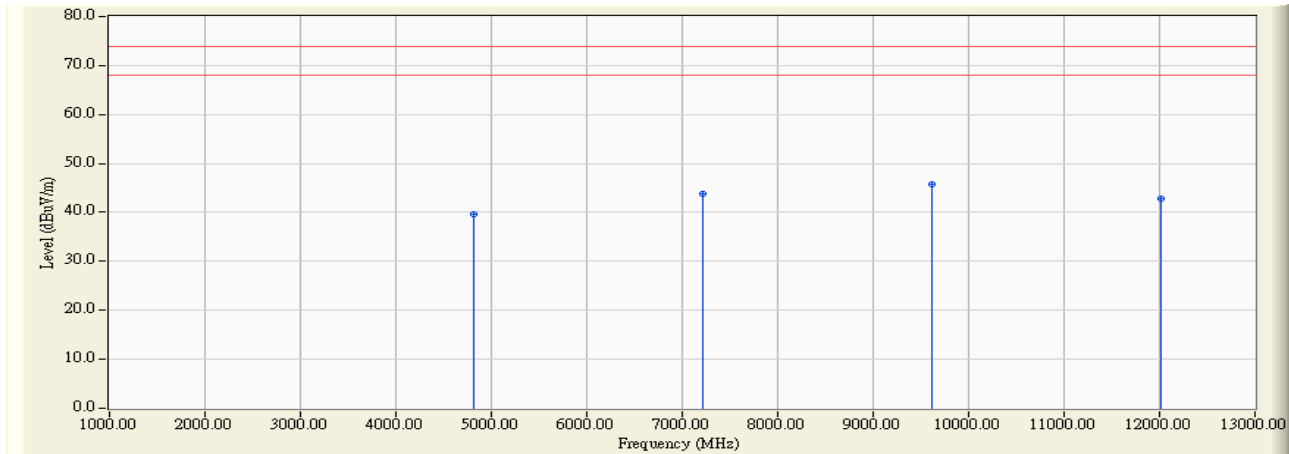


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		105.554	-3.458	41.123	37.665	-5.835	43.500	QUASIPeAK	0.000	0.000
2		274.125	-5.214	42.243	37.029	-8.971	46.000	QUASIPeAK	0.000	0.000
3		375.384	-5.415	44.465	39.050	-6.950	46.000	QUASIPeAK	0.000	0.000
4	*	580.220	1.378	40.168	41.546	-4.454	46.000	QUASIPeAK	0.000	0.000
5		800.168	3.460	35.152	38.613	-7.387	46.000	QUASIPeAK	0.000	0.000
6	*	901.087	4.515	37.155	41.671	-4.329	46.000	QUASIPeAK	0.000	0.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : No.1 OATS	Time : 2006/02/27 - 18:42
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : DI-524	Probe : RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11g 2412MHz

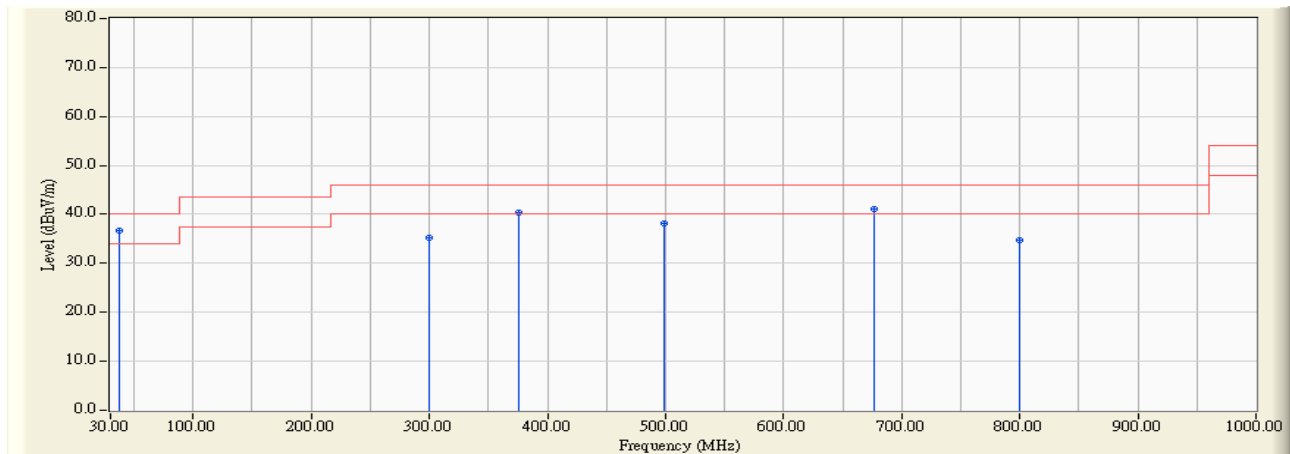


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		4808.600	2.700	36.990	39.691	-34.309	74.000	PEAK	0.000	0.000
2		7212.600	7.808	35.940	43.748	-30.252	74.000	PEAK	0.000	0.000
3	*	9616.600	11.499	34.350	45.849	-28.151	74.000	PEAK	0.000	0.000
4		12020.600	9.976	32.790	42.766	-31.234	74.000	PEAK	0.000	0.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : No.1 OATS	Time : 2006/03/02 - 20:39
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : DI-524	Probe : RF_30-1G(2005) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11g 2412MHz

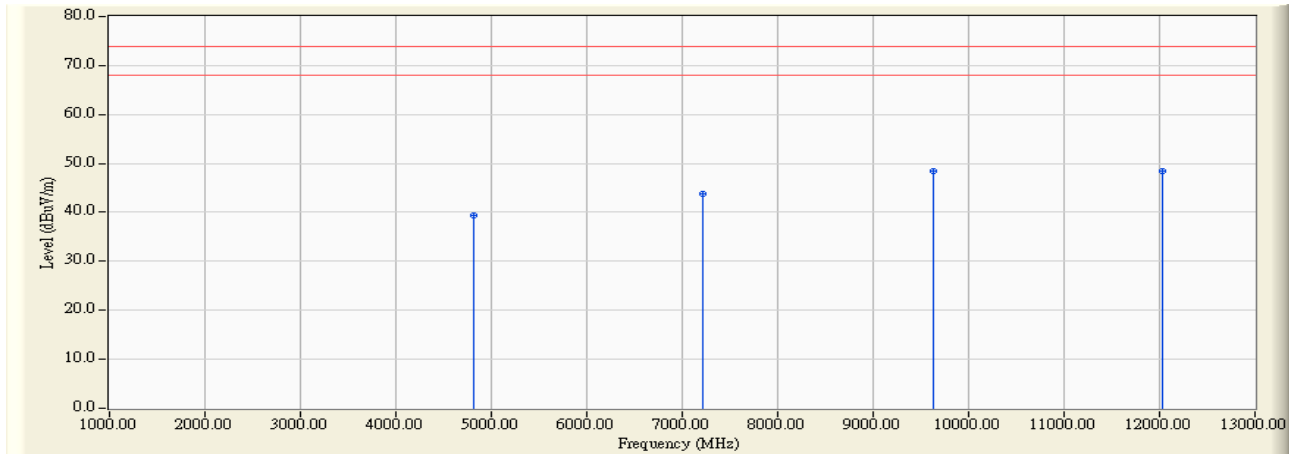


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	37.746	-3.313	39.976	36.663	-3.337	40.000	QUASIPeAK	0.000	0.000
2		299.348	-8.313	43.660	35.346	-10.654	46.000	QUASIPeAK	0.000	0.000
3		375.386	-0.787	41.052	40.266	-5.734	46.000	QUASIPeAK	0.000	0.000
4		499.312	-0.341	38.613	38.272	-7.728	46.000	QUASIPeAK	0.000	0.000
5		676.068	1.300	39.851	41.151	-4.849	46.000	QUASIPeAK	0.000	0.000
6		800.182	2.971	31.852	34.822	-11.178	46.000	QUASIPeAK	0.000	0.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : No.1 OATS	Time : 2006/02/27 - 18:47
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : DI-524	Probe : RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11g 2412MHz

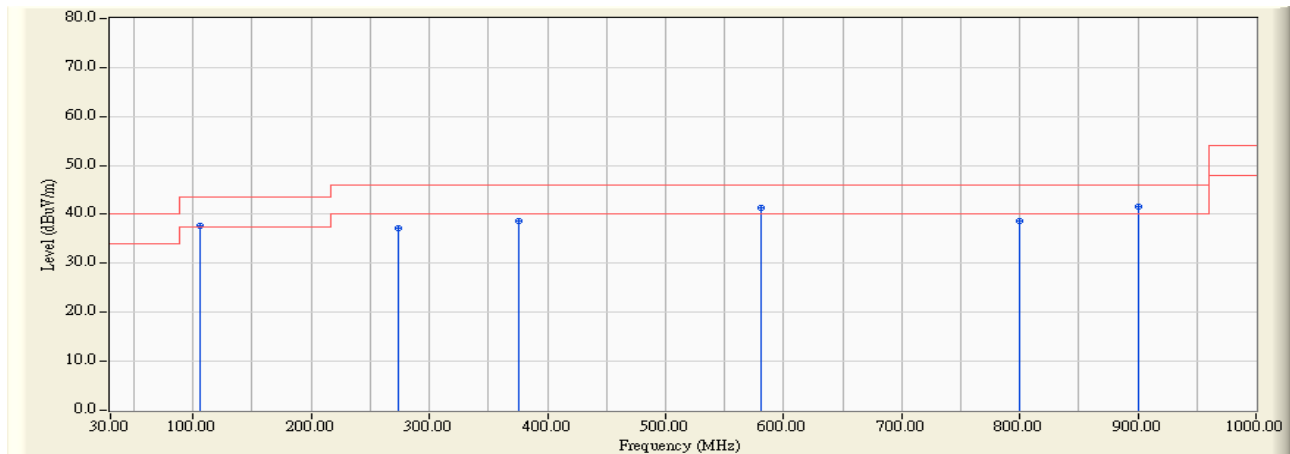


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		4808.000	0.918	38.450	39.368	-34.632	74.000	PEAK	0.000	0.000
2		7216.000	7.809	35.870	43.679	-30.321	74.000	PEAK	0.000	0.000
3	*	9624.000	13.504	34.960	48.463	-25.537	74.000	PEAK	0.000	0.000
4		12032.000	15.163	33.160	48.323	-25.677	74.000	PEAK	0.000	0.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : No.1 OATS	Time : 2006/03/03 - 15:20
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : DI-524	Probe : RF_30-1G(2005) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11g 2437MHz

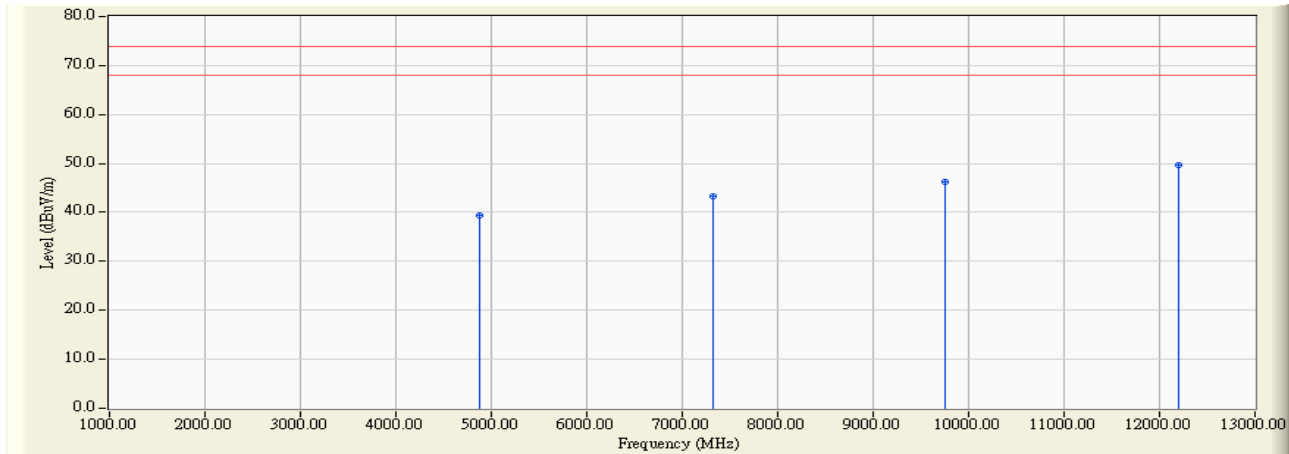


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		105.645	-3.467	41.123	37.656	-5.844	43.500	QUASIPeAK	0.000	0.000
2		274.258	-5.215	42.356	37.141	-8.859	46.000	QUASIPeAK	0.000	0.000
3		375.316	-5.419	44.188	38.769	-7.231	46.000	QUASIPeAK	0.000	0.000
4	*	580.942	1.204	40.228	41.433	-4.567	46.000	QUASIPeAK	0.000	0.000
5		800.175	3.461	35.088	38.549	-7.451	46.000	QUASIPeAK	0.000	0.000
6	*	901.052	4.516	37.177	41.693	-4.307	46.000	QUASIPeAK	0.000	0.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : No.1 OATS	Time : 2006/02/27 - 18:51
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : DI-524	Probe : RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11g 2437MHz

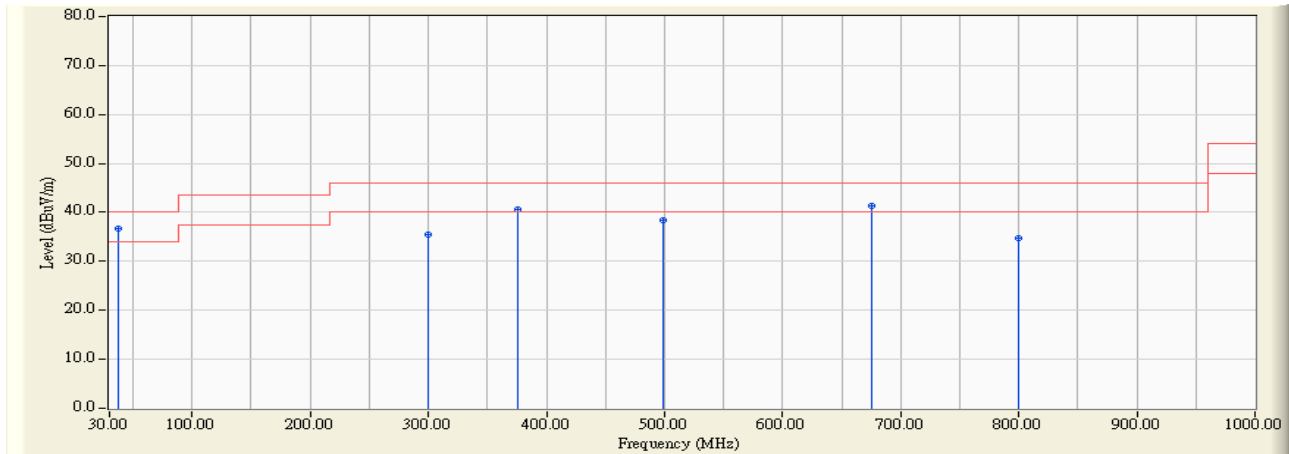


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		4880.000	3.032	36.470	39.502	-34.498	74.000	PEAK	0.000	0.000
2		7320.000	8.627	34.680	43.307	-30.693	74.000	PEAK	0.000	0.000
3	*	9760.000	11.617	34.500	46.116	-27.884	74.000	PEAK	0.000	0.000
4	*	12200.000	17.102	32.600	49.702	-24.298	74.000	PEAK	0.000	0.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : No.1 OATS	Time : 2006/03/03 - 15:22
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : DI-524	Probe : RF_30-1G(2005) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11g 2437MHz

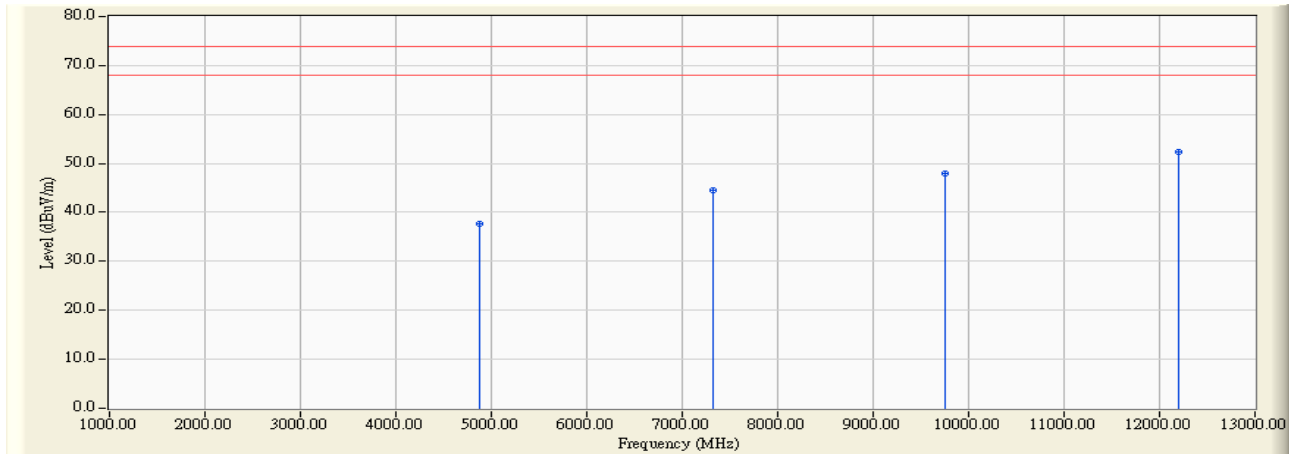


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	37.774	-3.302	40.072	36.769	-3.231	40.000	QUASIPeAK	0.000	0.000
2		299.653	-8.269	43.762	35.493	-10.507	46.000	QUASIPeAK	0.000	0.000
3		375.385	-0.787	41.322	40.536	-5.464	46.000	QUASIPeAK	0.000	0.000
4		499.426	-0.330	38.852	38.523	-7.477	46.000	QUASIPeAK	0.000	0.000
5		676.022	1.300	39.929	41.229	-4.771	46.000	QUASIPeAK	0.000	0.000
6		800.164	2.971	31.875	34.846	-11.154	46.000	QUASIPeAK	0.000	0.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : No.1 OATS	Time : 2006/02/27 - 18:53
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : DI-524	Probe : RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11g 2437MHz

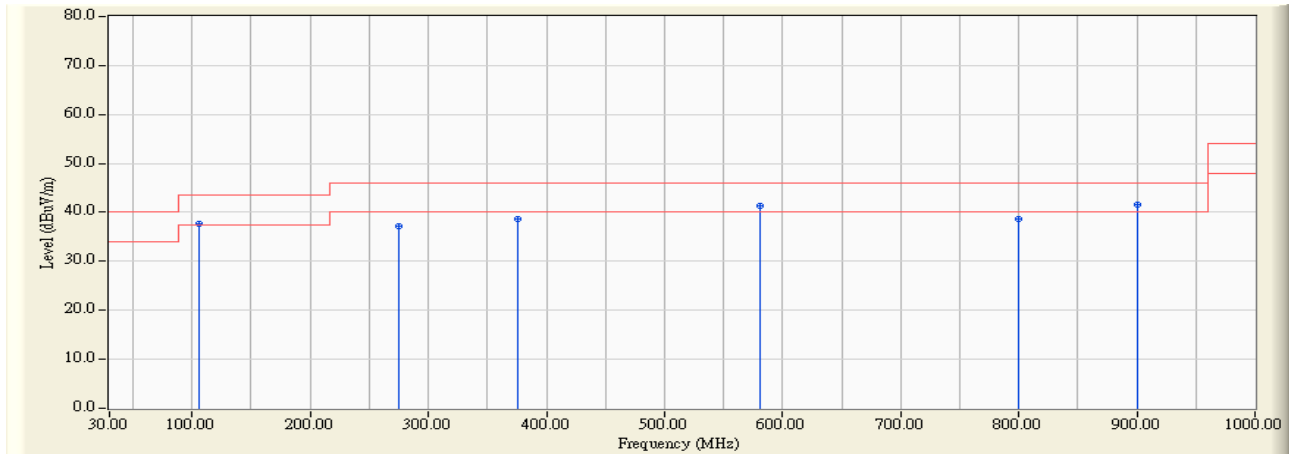


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		4880.000	1.389	36.400	37.789	-36.211	74.000	PEAK	0.000	0.000
2		7320.000	8.627	35.960	44.587	-29.413	74.000	PEAK	0.000	0.000
3	*	9760.000	13.617	34.240	47.856	-26.144	74.000	PEAK	0.000	0.000
4	*	12200.000	17.928	34.410	52.338	-21.662	74.000	PEAK	0.000	0.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : No.1 OATS	Time : 2006/03/03 - 15:24
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : DI-524	Probe : RF_30-1G(2005) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11g 2462MHz

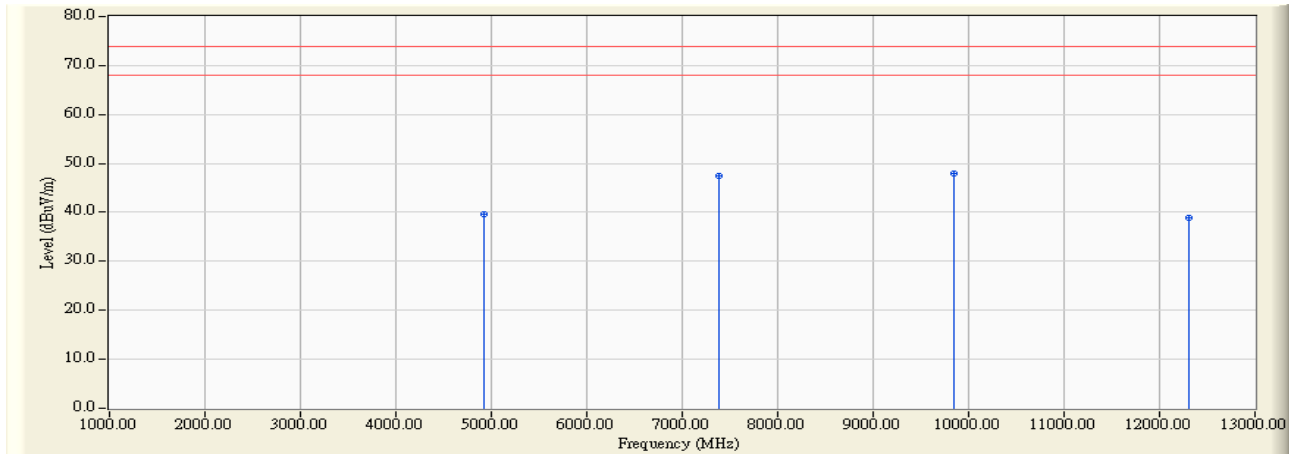


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		105.654	-3.468	41.102	37.634	-5.866	43.500	QUASIPeAK	0.000	0.000
2		274.561	-5.217	42.398	37.181	-8.819	46.000	QUASIPeAK	0.000	0.000
3		375.318	-5.419	44.185	38.766	-7.234	46.000	QUASIPeAK	0.000	0.000
4	*	580.922	1.210	40.255	41.465	-4.535	46.000	QUASIPeAK	0.000	0.000
5		800.185	3.461	35.087	38.547	-7.453	46.000	QUASIPeAK	0.000	0.000
6	*	901.038	4.517	37.184	41.701	-4.299	46.000	QUASIPeAK	0.000	0.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : No.1 OATS	Time : 2006/02/28 - 15:25
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : DI-524	Probe : RF_1G-18G(2005-3) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11g 2462MHz

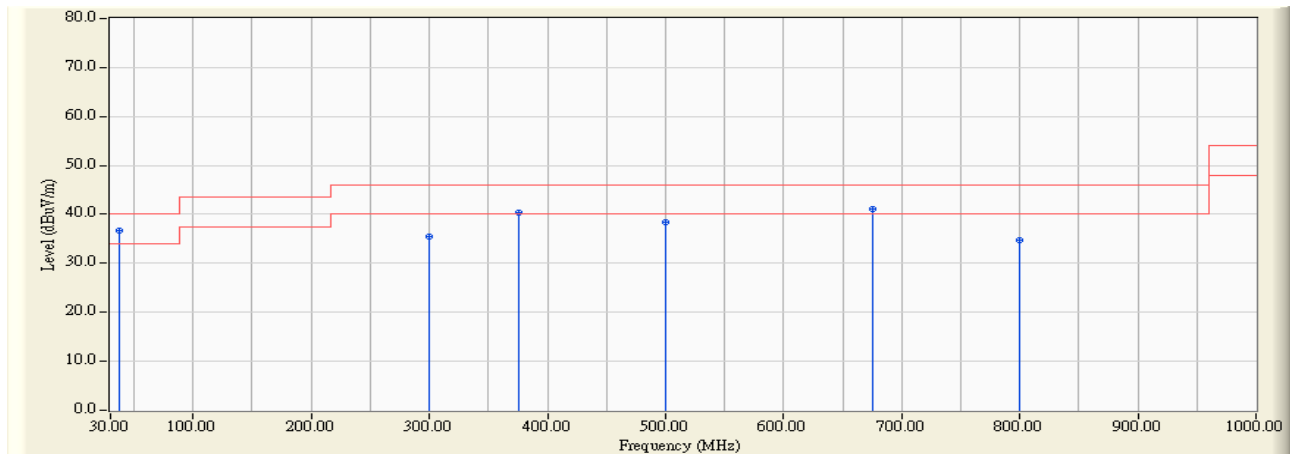


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	4924.400	3.219	36.300	39.520	-34.480	74.000	PEAK	0.000	0.000
2	7386.200	9.132	38.430	47.562	-26.438	74.000	PEAK	0.000	0.000
3	* 9848.200	12.060	35.890	47.950	-26.050	74.000	PEAK	0.000	0.000
4	12310.200	4.153	34.700	38.853	-35.147	74.000	PEAK	0.000	0.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : No.1 OATS	Time : 2006/03/03 - 15:25
Limit : FCC_CLASS_B_03M_QP	Margin : 6
EUT : DI-524	Probe : RF_30-1G(2005) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11g 2462MHz

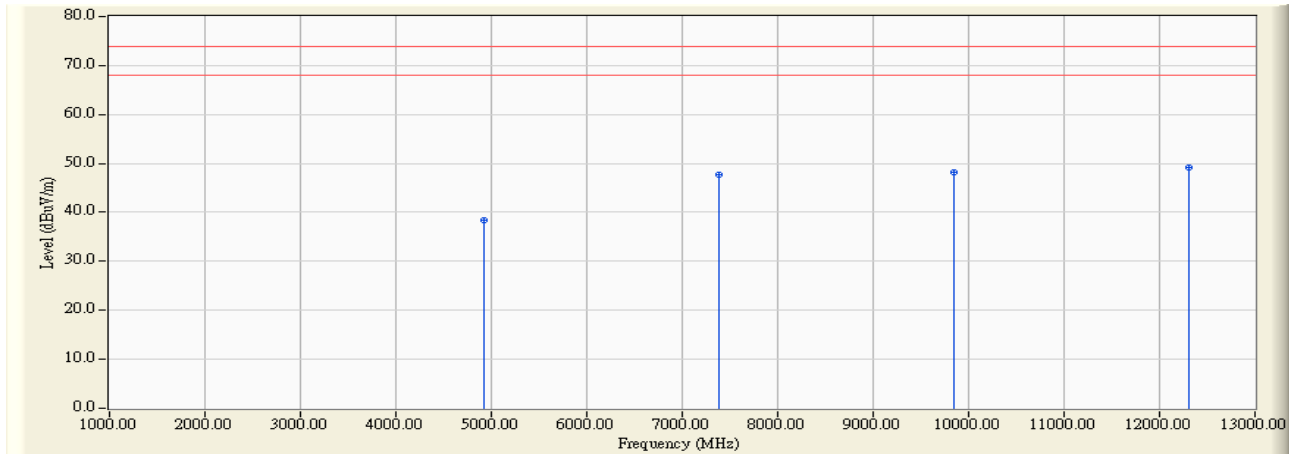


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	37.754	-3.310	40.086	36.776	-3.224	40.000	QUASIPeAK	0.000	0.000
2		299.654	-8.269	43.766	35.497	-10.503	46.000	QUASIPeAK	0.000	0.000
3		375.318	-0.789	41.124	40.335	-5.665	46.000	QUASIPeAK	0.000	0.000
4		499.477	-0.324	38.705	38.381	-7.619	46.000	QUASIPeAK	0.000	0.000
5		676.031	1.300	39.685	40.985	-5.015	46.000	QUASIPeAK	0.000	0.000
6		800.176	2.971	31.776	34.747	-11.253	46.000	QUASIPeAK	0.000	0.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : No.1 OATS	Time : 2006/02/28 - 15:28
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
EUT : DI-524	Probe : RF_1G-18G(2005-3) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit 802.11g 2462MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		4924.010	1.671	36.770	38.441	-35.559	74.000	PEAK	0.000	0.000
2		7385.700	9.129	38.590	47.718	-26.282	74.000	PEAK	0.000	0.000
3	*	9847.900	13.578	34.610	48.188	-25.812	74.000	PEAK	0.000	0.000
4	*	12310.210	15.712	33.580	49.292	-24.708	74.000	PEAK	0.000	0.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

4.7. Test Photo

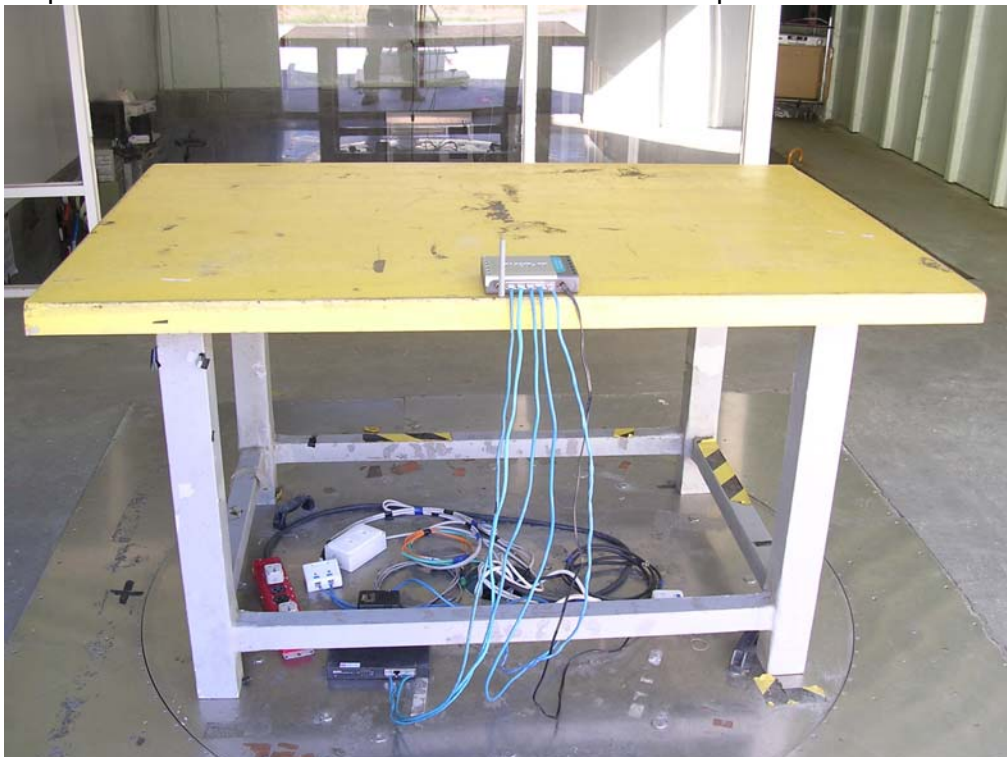
Test Mode : Mode 1: Transmit

Description : Front View of Radiated Emission Test Setup



Test Mode : Mode 1: Transmit

Description : Back View of Radiated Emission Test Setup



Test Mode : Mode 1: Transmit

Description : Front View of Radiated Emission Test Setup (Horn)



5. Band Edge

5.1. Test Equipment

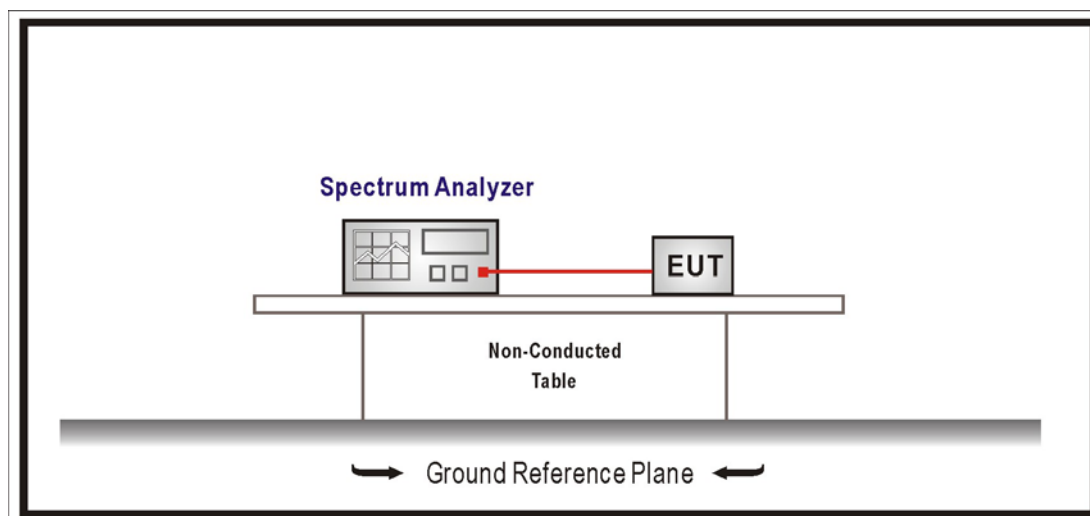
The following test equipment are used during the test:

RF Conducted Measurement:					
Item	Equipment		Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer		R & S	FSP / 100561	Mar., 2006
2	No.1 OATS				Sep., 2005
RF Radiated Measurement:					
Item	Equipment		Manufacturer	Model No. / Serial No.	Last Cal.
1	X	Spectrum Analyzer	R & S	FSP40 / 100005	Aug., 2005
2	X	Pre-Amplifier	HP	8449B / 3008A01123	Feb., 2006
3		Loop Antenna	R & S	HFH2-Z2 / 833799/004	Sep., 2005
4		BiconiLog Antenna	Schwarzbeck	VULB 9166 / 1061	Sep., 2005
5		Bilog Antenna	Chase	CBL6112B / 2455	Sep., 2005
6	X	Horn Antenna	Schwarzbeck	BBHA 9120D / BBHA9120D312	Sep., 2005
7	No.1 OATS				Sep., 2005

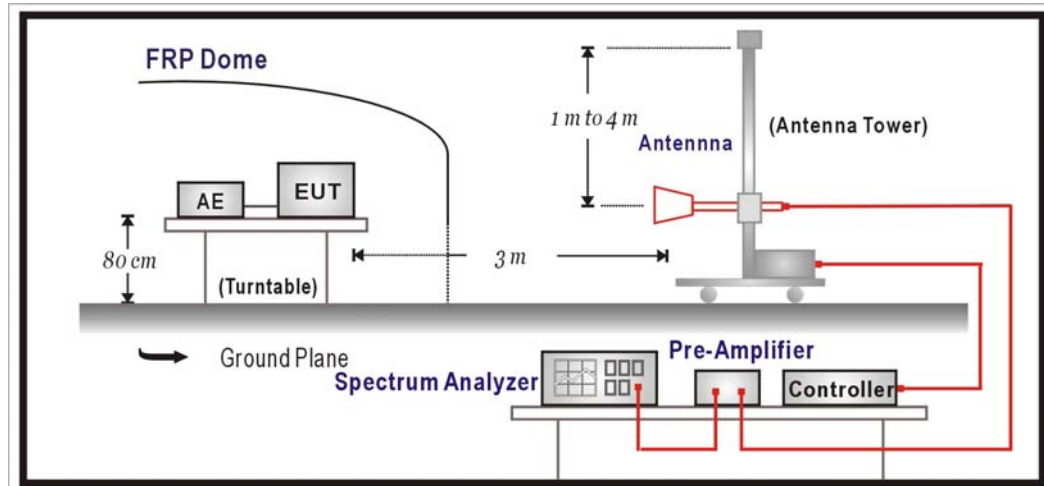
- Note:
1. All equipments that need to calibrate are with calibration period of 1 year.
 2. Mark "X" test instruments are used to measure the final test results.

5.2. Test Setup

RF Conducted Measurement:



RF Radiated Measurement:



5.3. Limits

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

5.4. Test Procedure

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

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

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

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

5.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2005

5.6. Test Result

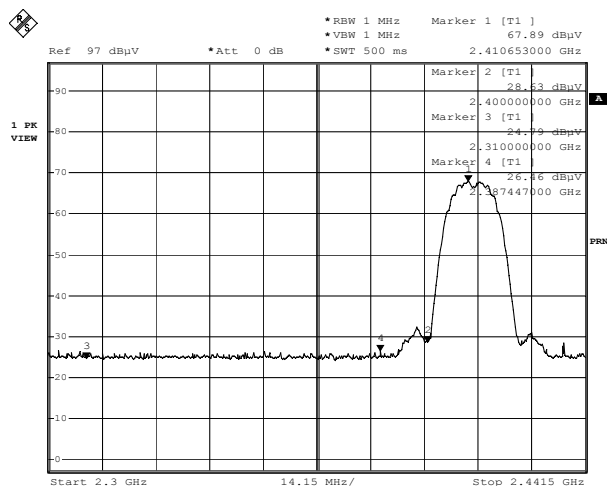
Product	Wireless Broadband Router		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2006/03/04	Test Site	No.1 OATS

RF Radiated Measurement: (Peak Detector)

IEEE 802.11b

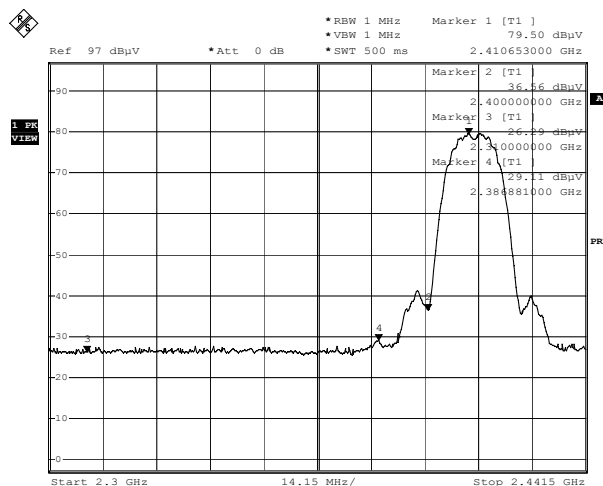
Channel No.	Frequency (MHz)	Reading Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	PreAMP (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Result
1(Horizontal)	2387.440	26.460	24.467	3.920	00.00	54.847	74	Pass
1(Vertical)	2386.880	29.110	22.865	3.920	00.00	55.895	74	Pass

Horizontal



Date: 4.MAR.2006 11:13:19

Vertical



Date: 4.MAR.2006 11:06:19

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

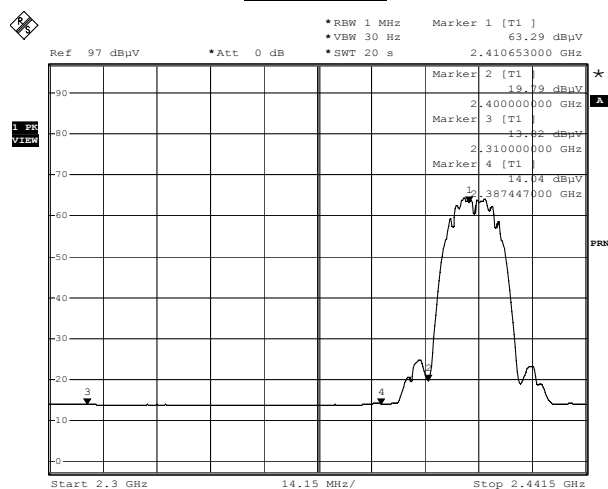
Product	Wireless Broadband Router		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2006/03/04	Test Site	No.1 OATS

RF Radiated Measurement: (Average Detector)

IEEE 802.11b

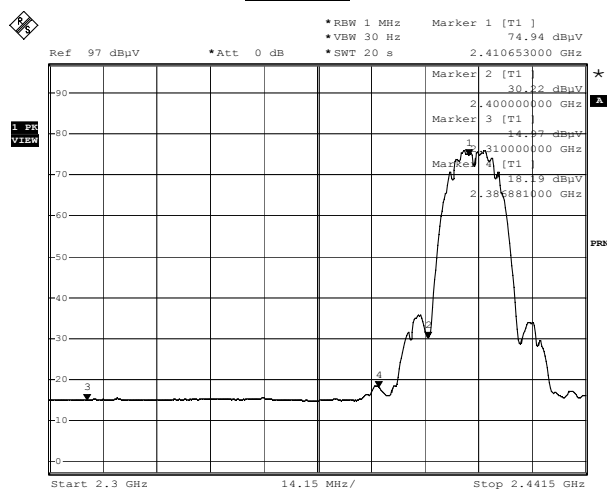
Channel No.	Frequency (MHz)	Reading Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	PreAMP (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Result
1(Horizontal)	2387.440	14.040	26.467	3.920	00.00	42.427	54	Pass
1(Vertical)	2386.880	18.190	22.865	3.920	00.00	44.975	54	Pass

Horizontal



Date: 4.MAR.2006 11:14:26

Vertical



Date: 4.MAR.2006 11:08:26

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

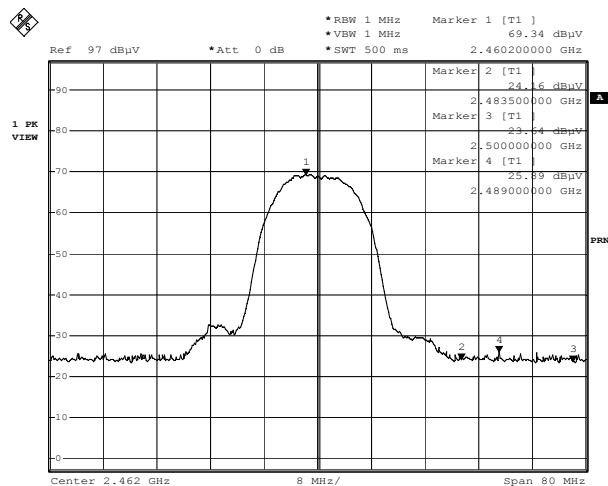
Product	Wireless Broadband Router		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2006/03/04	Test Site	No.1 OATS

RF Radiated Measurement: (Peak Detector)

IEEE 802.11b

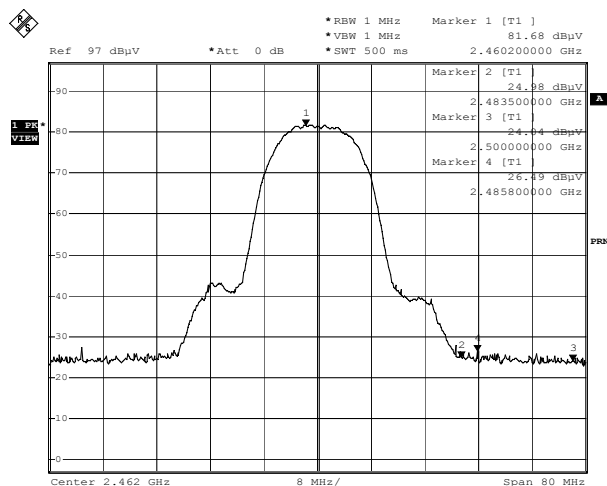
Channel No.	Frequency (MHz)	Reading Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	PreAMP (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Result
11(Horizontal)	2489.000	25.890	24.734	3.997	00.00	54.620	74	Pass
11(Vertical)	2485.800	26.490	23.126	3.993	00.00	53.609	74	Pass

Horizontal



Date: 4.MAR.2006 11:24:52

Vertical



Date: 4.MAR.2006 11:36:51

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

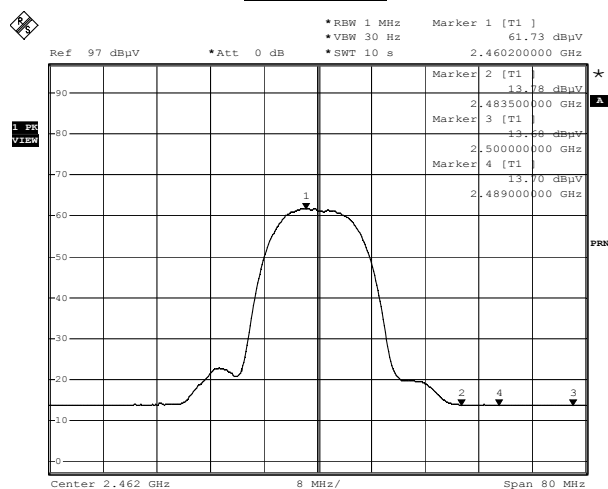
Product	Wireless Broadband Router		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2006/03/04	Test Site	No.1 OATS

RF Radiated Measurement: (Average Detector)

IEEE 802.11b

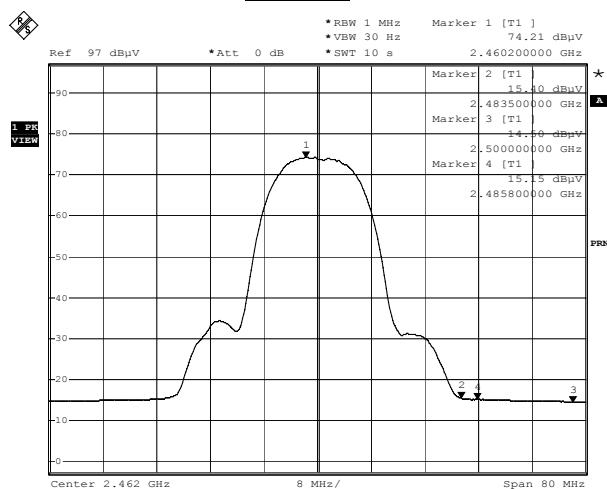
Channel No.	Frequency (MHz)	Reading Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	PreAMP (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Result
11(Horizontal)	2489.000	13.700	24.734	3.997	00.00	42.430	54	Pass
11(Vertical)	2485.800	15.150	23.126	3.993	00.00	42.269	54	Pass

Horizontal



Date: 4.MAR.2006 11:27:39

Vertical



Date: 4.MAR.2006 11:33:24

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

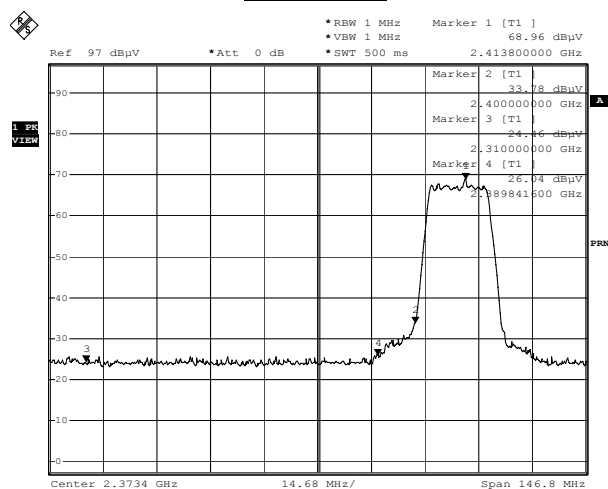
Product	Wireless Broadband Router		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2006/03/04	Test Site	No.1 OATS

RF Radiated Measurement: (Peak Detector)

IEEE 802.11g

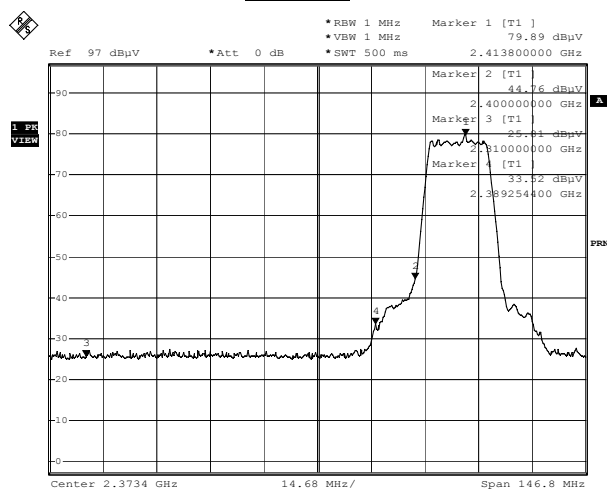
Channel No.	Frequency (MHz)	Reading Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	PreAMP (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Result
1(Horizontal)	2389.840	26.040	24.475	3.920	00.00	54.435	74	Pass
1(Vertical)	2389.250	33.520	22.873	3.920	00.00	60.313	74	Pass

Horizontal



Date: 4.MAR.2006 12:02:27

Vertical



Date: 4.MAR.2006 12:13:15

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

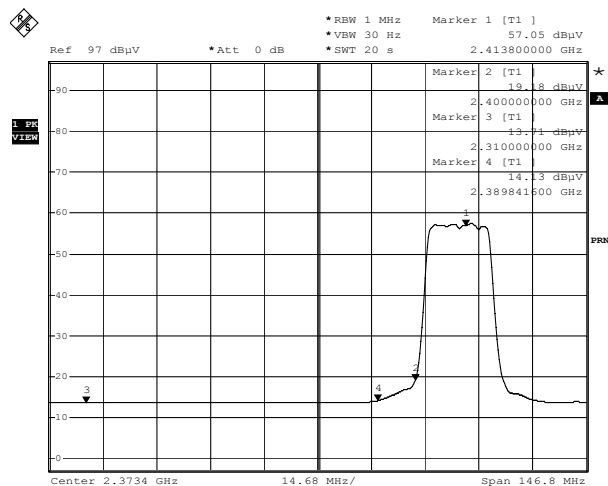
Product	Wireless Broadband Router		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	22006/03/04	Test Site	No.1 OATS

RF Radiated Measurement: (Average Detector)

IEEE 802.11g

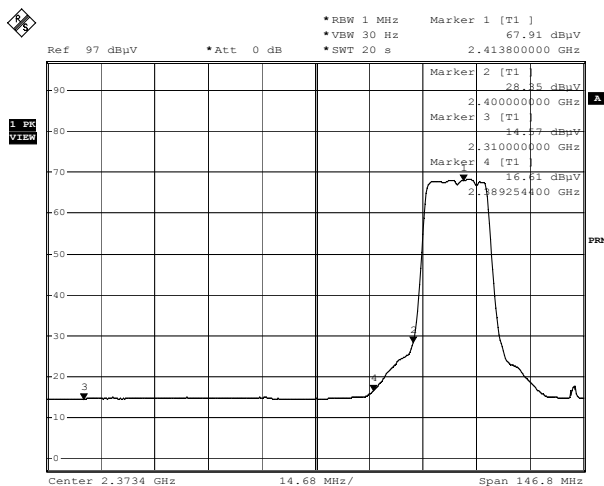
Channel No.	Frequency (MHz)	Reading Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	PreAMP (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Result
1(Horizontal)	2389.840	14.130	24.475	3.920	00.00	42.525	54	Pass
1(Vertical)	2389.250	16.610	22.873	3.920	00.00	43.403	54	Pass

Horizontal



Date: 4.MAR.2006 12:06:26

Vertical



Date: 4.MAR.2006 12:18:01

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

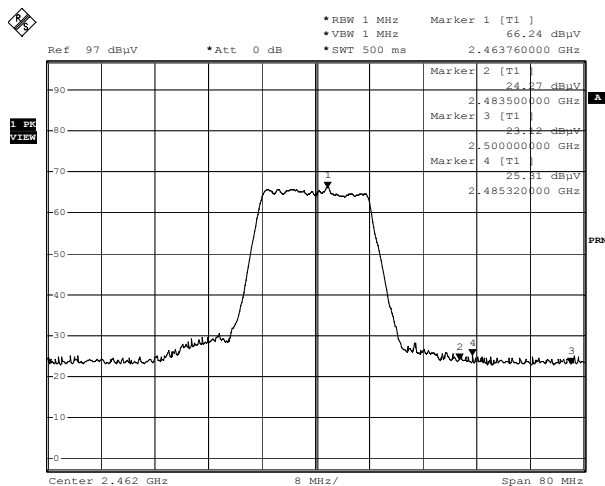
Product	Wireless Broadband Router		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2006/03/04	Test Site	No.1 OATS

RF Radiated Measurement: (Peak Detector)

IEEE 802.11g

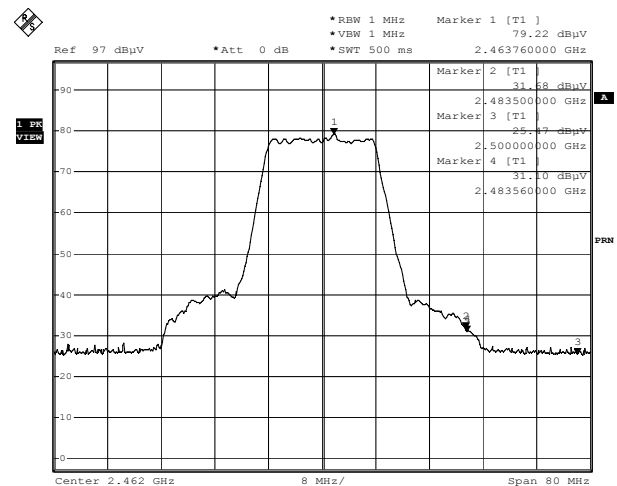
Channel No.	Frequency (MHz)	Reading Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	PreAMP (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Result
11(Horizontal)	2485.320	25.310	24.725	3.993	00.00	54.028	74	Pass
11(Vertical)	2483.560	31.100	23.121	3.991	00.00	58.211	74	Pass

Horizontal



Date: 4.MAR.2006 11:53:04

Vertical



Date: 4.MAR.2006 11:44:36

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

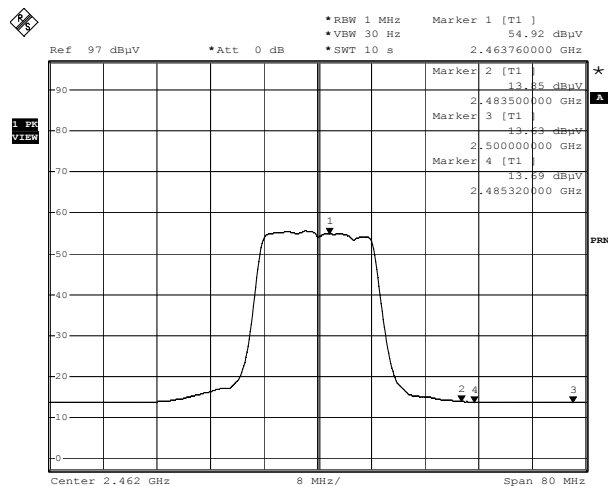
Product	Wireless Broadband Router		
Test Item	Band Edge		
Test Mode	Mode 1: Transmit		
Date of Test	2006/03/04	Test Site	No.1 OATS

RF Radiated Measurement: (Average Detector)

IEEE 802.11g

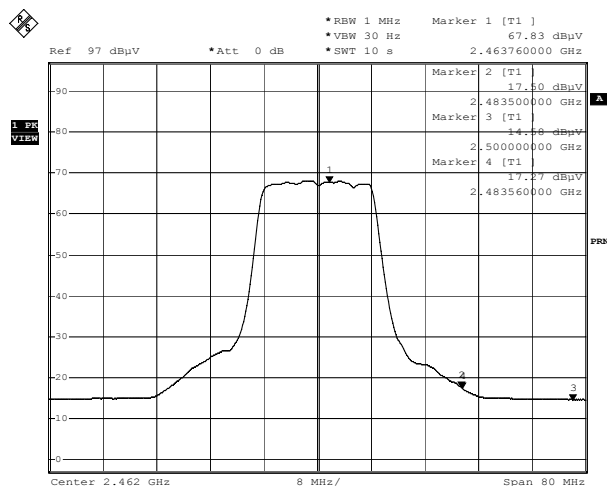
Channel No.	Frequency (MHz)	Reading Level (dBuV)	Probe Factor (dB/m)	Cable Loss (dB)	PreAMP (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)	Result
11(Horizontal)	2485.320	13.690	24.725	3.993	00.00	42.408	54	Pass
11(Vertical)	2483.560	17.270	23.121	3.991	00.00	44.381	54	Pass

Horizontal



Date: 4.MAR.2006 11:53:55

Vertical



Date: 4.MAR.2006 11:46:22

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

6. Occupied Bandwidth

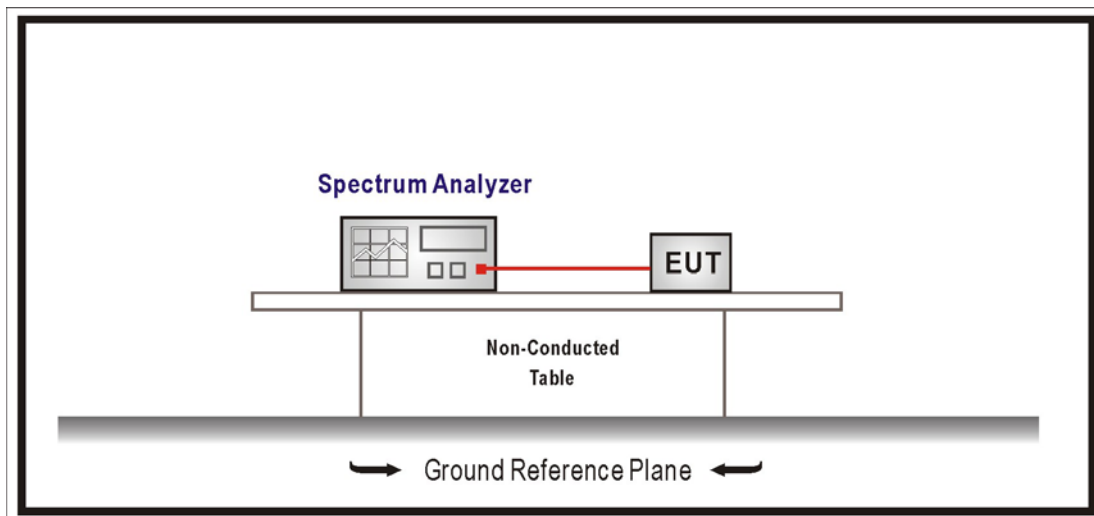
6.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Mar., 2006
2	No.1 OATS			Sep., 2005

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

6.2. Test Setup



6.3. Limits

The minimum 6dB bandwidth shall be at least 500kHz.

6.4. Test Specification

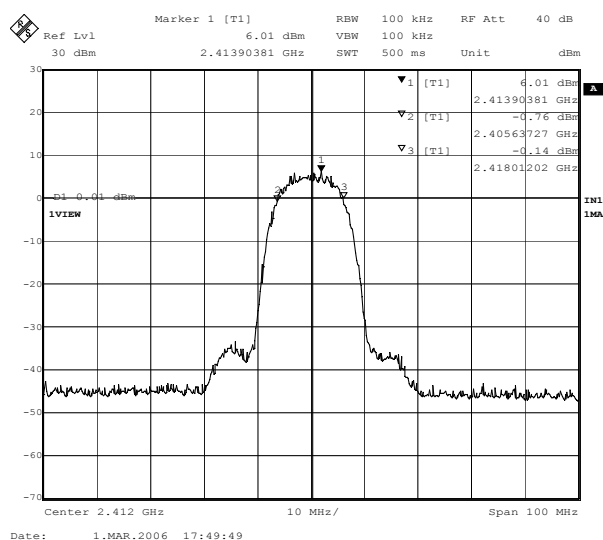
According to FCC Part 15 Subpart C Paragraph 15.247: 2005

6.5. Test Result

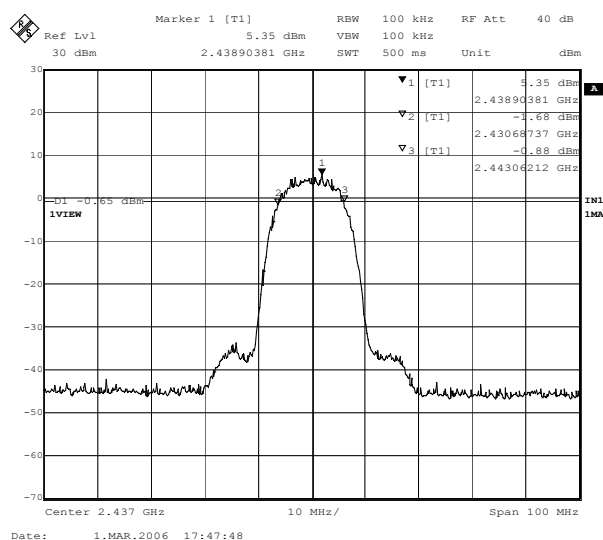
Product	Wireless Broadband Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2006/03/01	Test Site	No.1 OATS

IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (kHz)	Limit (kHz)	Result
1	2412	12370	>500	Pass
6	2437	12370	>500	Pass
11	2462	12420	>500	Pass

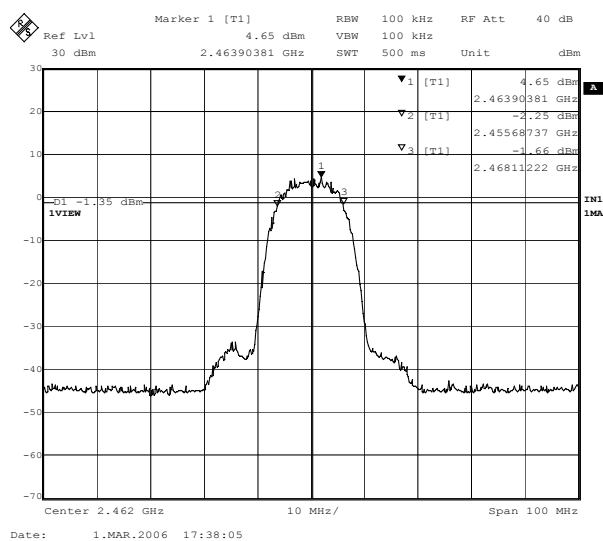
Channel 1



Channel 6



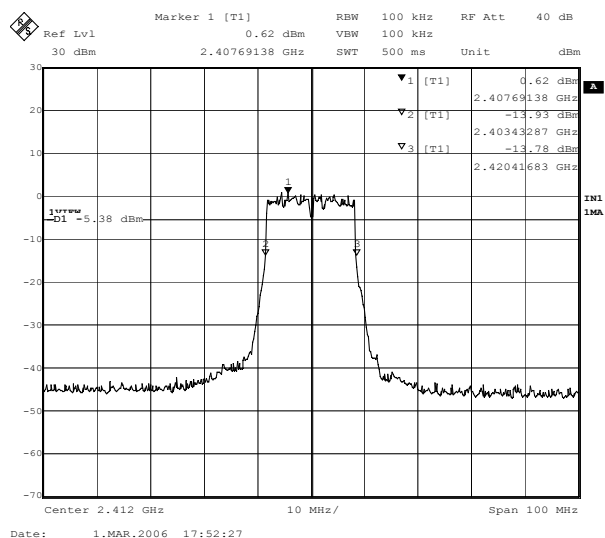
Channel 11



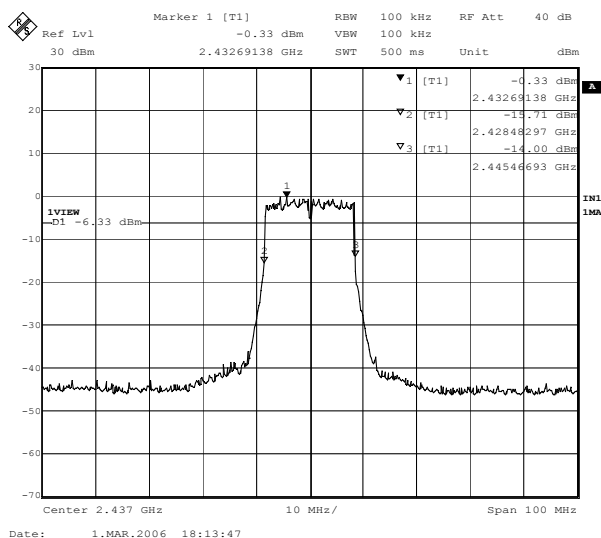
Product	Wireless Broadband Router		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit		
Date of Test	2006/03/01	Test Site	No.1 OATS

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (kHz)	Limit (kHz)	Result
1	2412	16990	>500	Pass
6	2437	16990	>500	Pass
11	2462	16990	>500	Pass

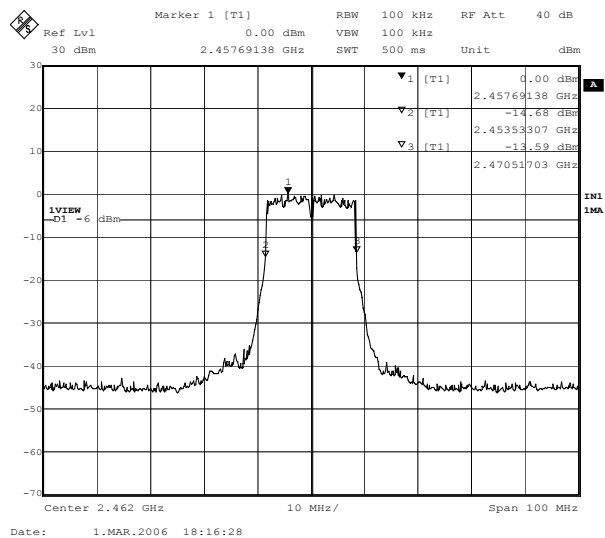
Channel 1



Channel 6



Channel 11



7. Power Density

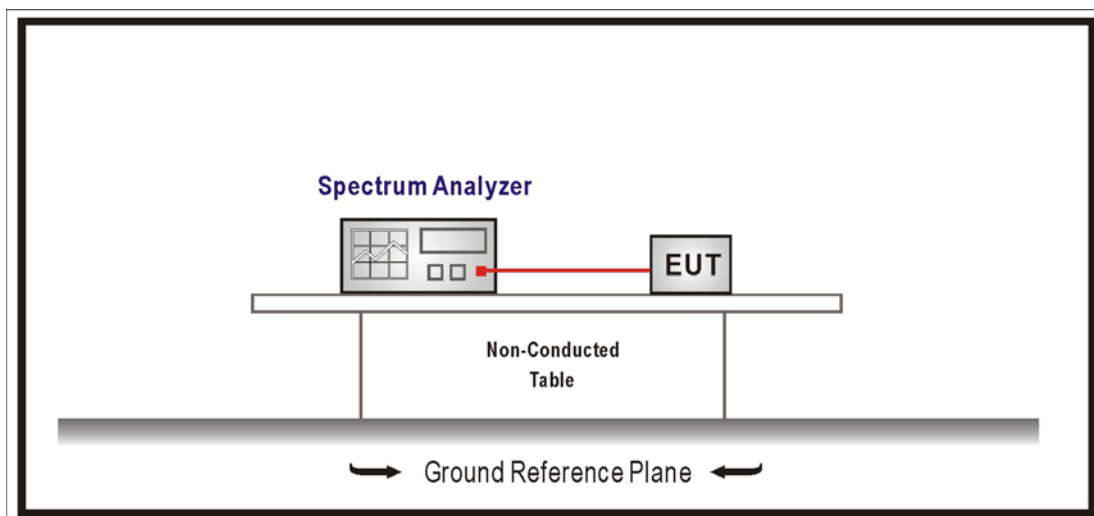
7.1. Test Equipment

The following test equipment are used during the test:

Item	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.
1	Spectrum Analyzer	R & S	FSP / 100561	Mar., 2006
2	No.1 OATS			Sep., 2005

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

7.2. Test Setup



7.3. Limits

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8dBm in any 3kHz band during any time interval of continuous transmission.

7.4. Test Specification

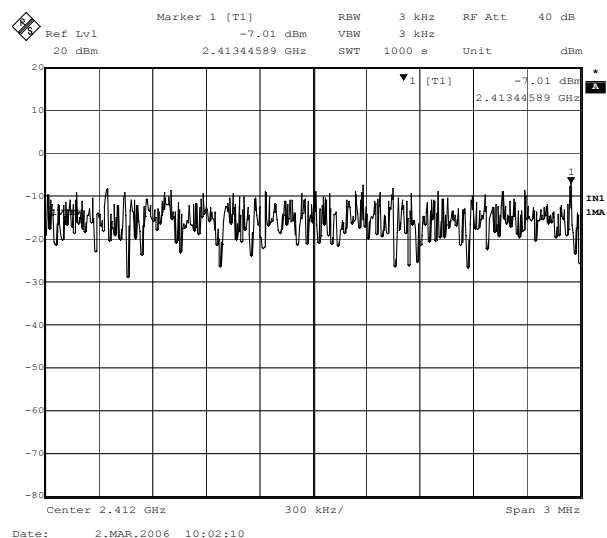
According to FCC Part 15 Subpart C Paragraph 15.247: 2005

7.5. Test Result

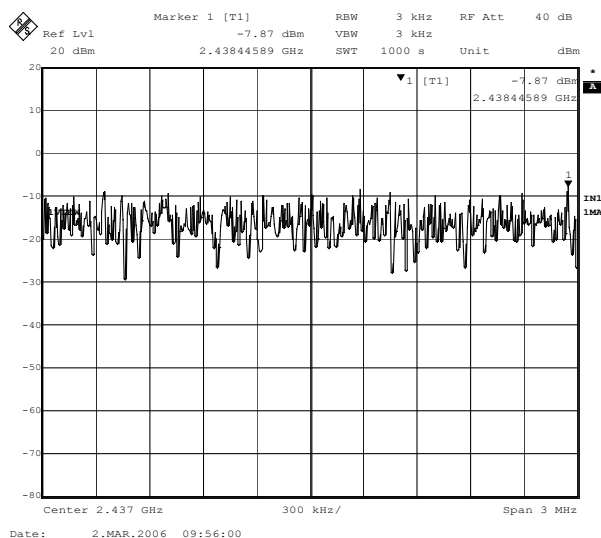
Product	Wireless Broadband Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	2006/03/02	Test Site	No.1 OATS

IEEE 802.11b				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-7.01	< 8	Pass
6	2437	-7.87	< 8	Pass
11	2462	-7.80	< 8	Pass

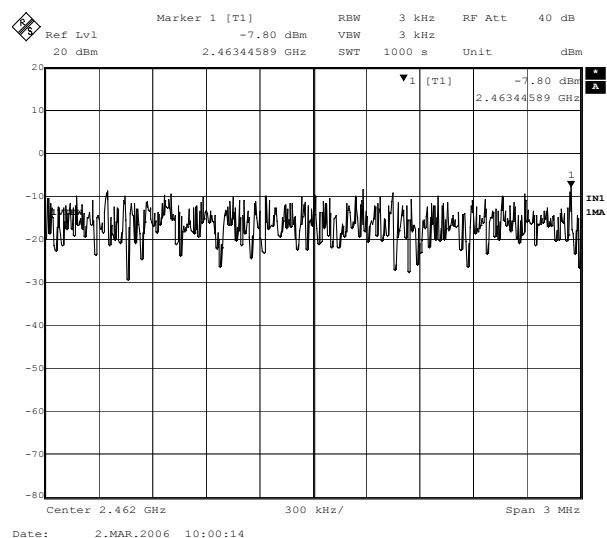
Channel 1



Channel 6



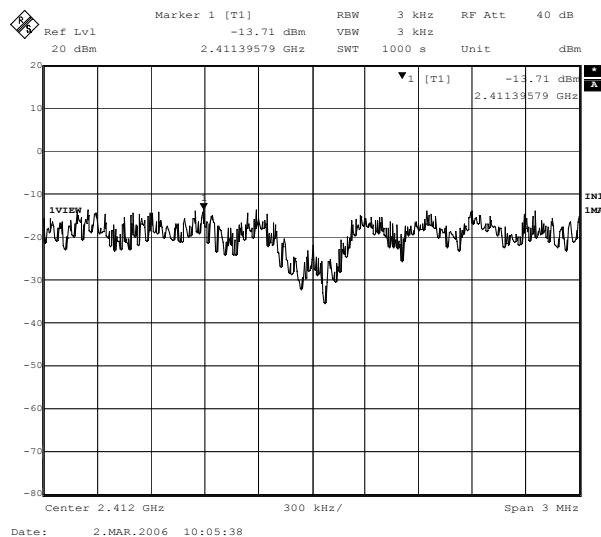
Channel 11



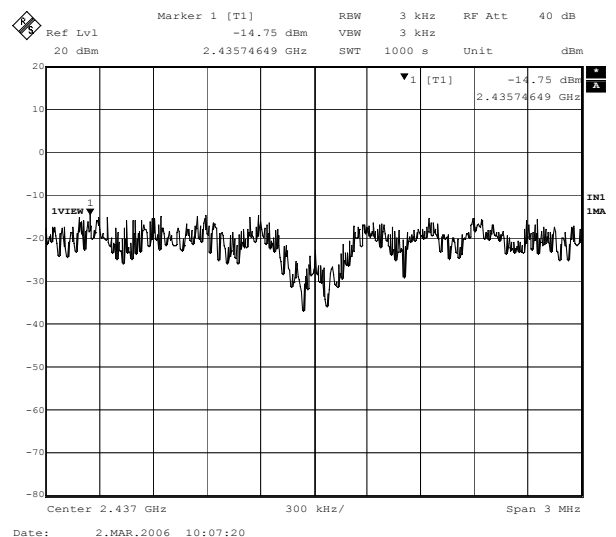
Product	Wireless Broadband Router		
Test Item	Power Density		
Test Mode	Mode 1: Transmit		
Date of Test	200603/02	Test Site	No.1 OATS

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-13.71	< 8	Pass
6	2437	-14.75	< 8	Pass
11	2462	-14.43	< 8	Pass

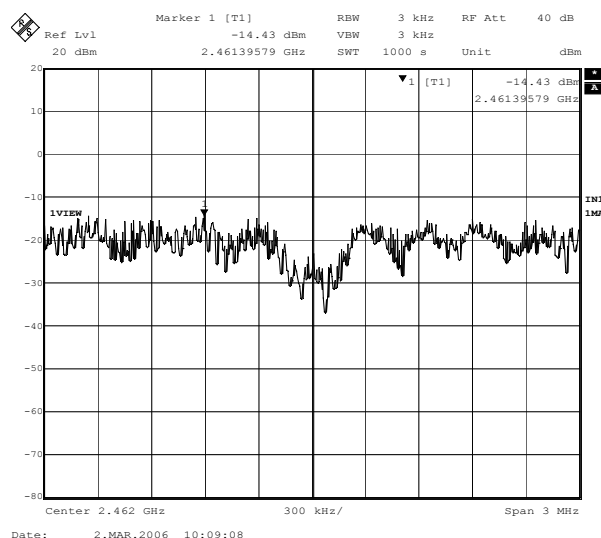
Channel 1



Channel 6



Channel 11



Attachement**➤ EUT Photograph**

(1) EUT Photo



(2) EUT Photo



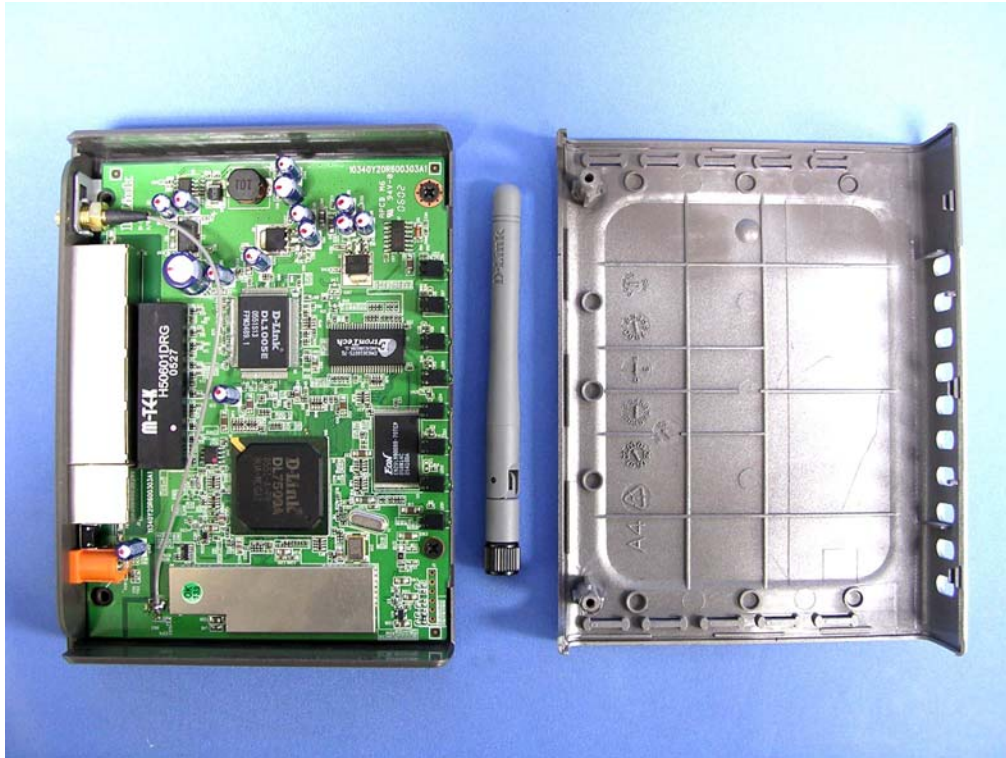
(3) EUT Photo



(4) EUT Photo



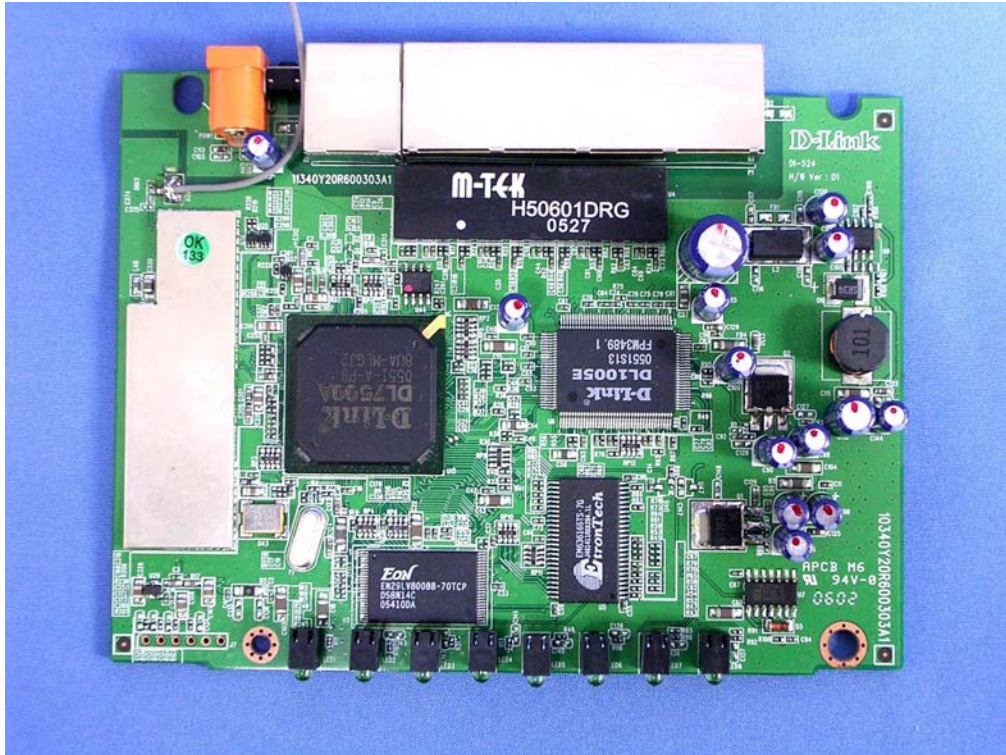
(5) EUT Photo



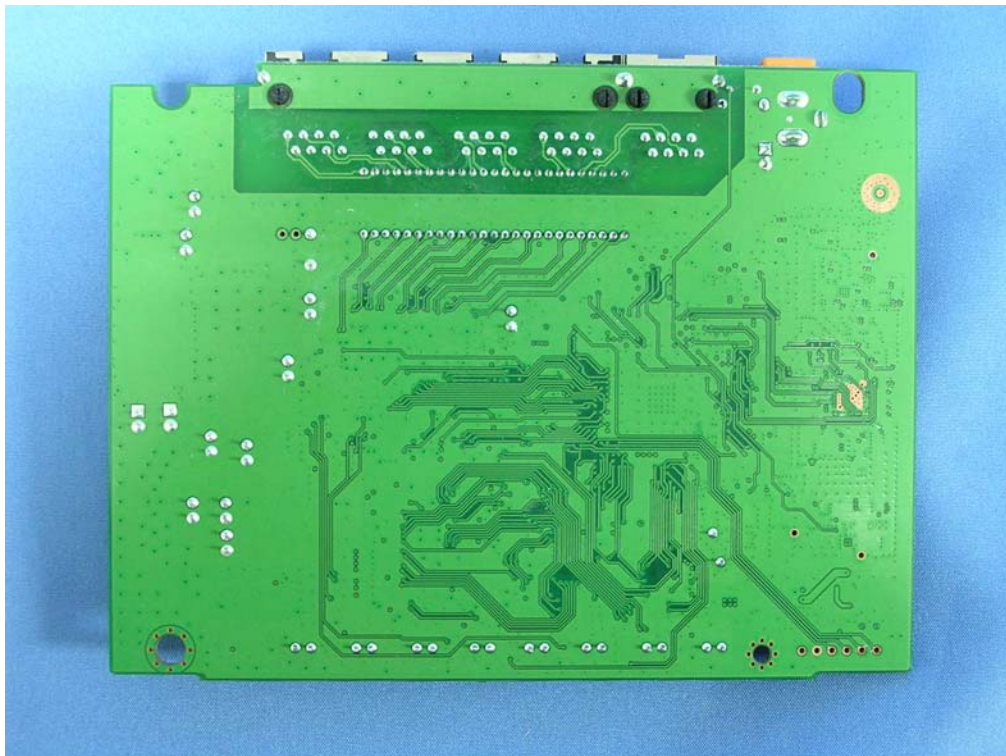
(6) EUT Photo



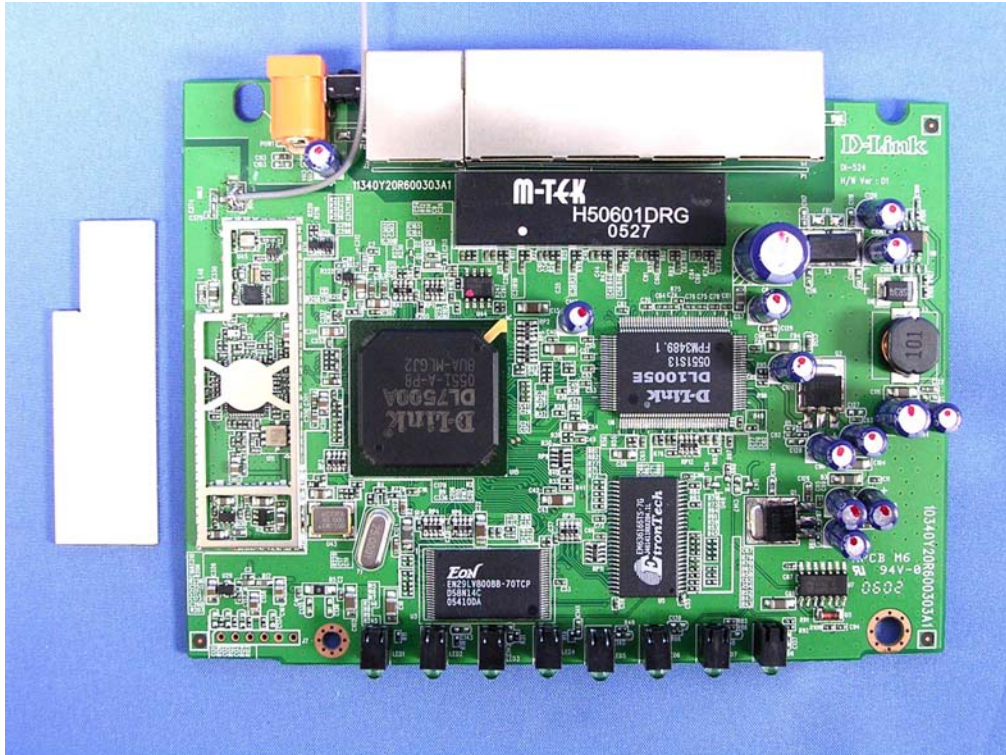
(7) EUT Photo



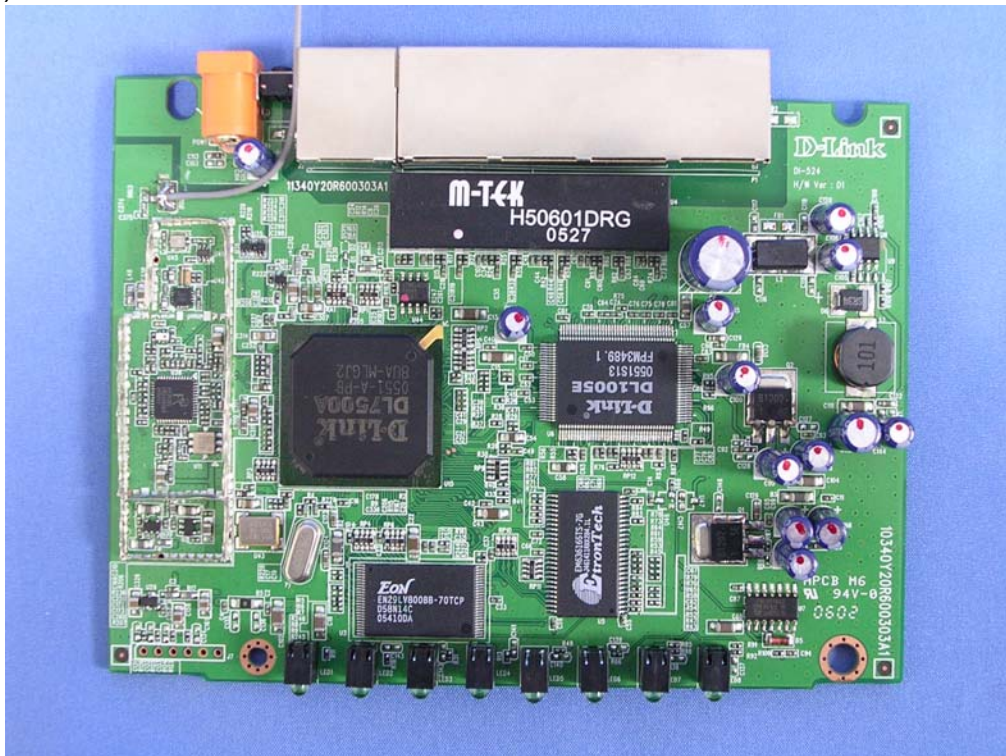
(8) EUT Photo



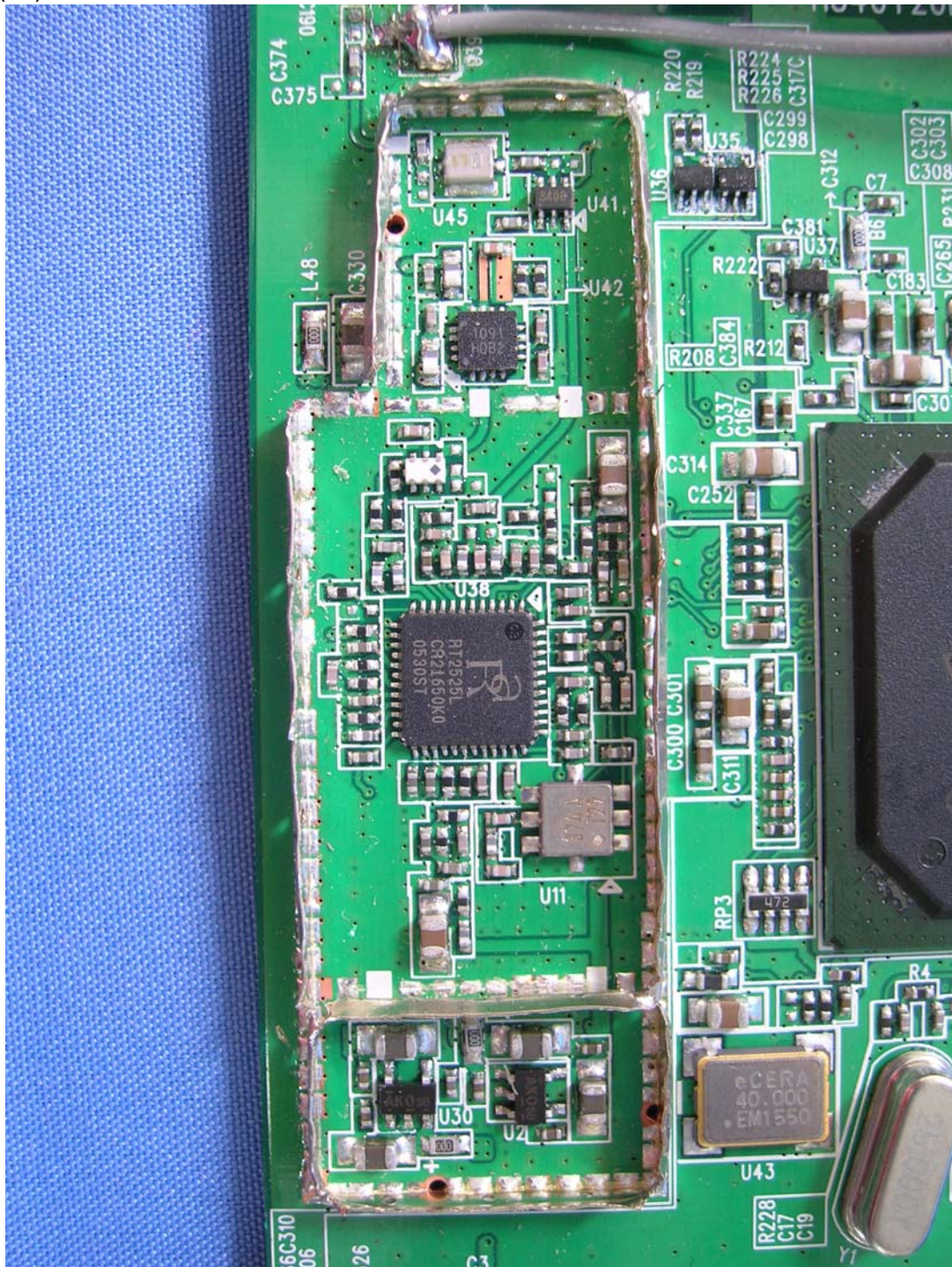
(9) EUT Photo



(10) EUT Photo



(11) EUT Photo



(12) EUT Photo

