



# Test Report

Product Name : 802.11g Wireless ADSL2+ Router  
Model No. : P-660W-T1 v2, P-660W-T3 v2, 401793  
FCC ID : I88P660WTV2

Applicant : ZyXEL Communications Corporation  
Address : No. 6, Innovation Rd 2, Science-Based Industrial Park,  
Hsin-Chu, Taiwan

Date of Receipt : 2008/03/24  
Issued Date : 2008/04/10  
Report No. : 084S013-RF-US-P05V01

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by CNLA, NVLAP or any agency of the Government.  
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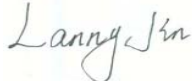
## Test Report Certification

Issued Date : 2008/04/10


Report No. : 084S013-RF-US-P05V01



Product Name : 802.11g Wireless ADSL2+ Router  
Applicant : ZyXEL Communications Corporation  
Address : No. 6, Innovation Rd 2, Science-Based Industrial Park,  
Hsin-Chu, Taiwan  
Manufacturer : ZyXEL Communications (Wuxi) Corp.  
Address : WuXi New District 60# - E Jiangsu PRC  
Model No. : P-660W-T1 v2, P-660W-T3 v2, 401793  
FCC ID : I88P660WTV2  
Rated Voltage : AC 120 V / 60 Hz  
EUT Voltage : Power by Adapter  
Trade Name : ZyXEL  
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2007  
ANSI C63.4: 2003  
Test Result : Complied  
Performed Location : SuZhou EMC laboratory  
No.99 Hongye Rd., Suzhou Industrial Park Loufeng  
Hi-Tech Development Zone., SuZhou, China  
TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098  
FCC Registration Number: 800392

Documented By :   
\_\_\_\_\_  
( Lanny Jin )

Reviewed By :   
\_\_\_\_\_  
( Dream Cao )

Approved By :   
\_\_\_\_\_  
( Murphy Wang )

## Laboratory Information

We , **Quietek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited by the following accreditation Bodies in compliance with ISO 17025, EN 45001 and Guide 25:

Taiwan R.O.C.	: BSMI, DGT, CNLA
Germany	: TUV Rheinland
Norway	: Nemko, DNV
USA	: FCC, NVLAP
Japan	: VCCI

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site : <http://tw.quietek.com/modules/myalbum/>  
 The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : <http://www.quietek.com/>  
 If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

### HsinChu Testing Laboratory :

No.75-2, 3rd Lin, Wangye Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan, R.O.C.  
 TEL:+886-3-592-8858 / FAX:+886-3-592-8859 E-Mail : service@quietek.com



### LinKou Testing Laboratory :

No. 5, Ruei-Shu Valley, Ruei-Ping Tsuen, Lin-Kou Shiang, Taipei, Taiwan, R.O.C.  
 TEL : +886-2-8601-3788 / FAX : 886-2-8601-3789 E-Mail : service@quietek.com



### Suzhou Testing Laboratory :

No.99 Hongye Rd., Suzhou Industrial Park Loufeng Hi-Tech Development Zone., SuZhou, China  
 TEL : +86-512-6251-5088 / FAX : 86-512-6251-5098 E-Mail : service@quietek.com



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## 1. General Information

### 1.1. EUT Description

Product Name	802.11g Wireless ADSL2+ Router
Trade Name	ZyXEL
Model No.	P-660W-T1 v2, P-660W-T3 v2, 401793
FCC ID	I88P660WTXV2
Working Voltage	DC 5.0V
Frequency Range	2412 - 2462 MHz
Channel Number	11
Type of Modulation	802.11b: DSSS 802.11g: OFDM
Data Rate	802.11b: 1/2/5.5/11 Mbps 802.11g: 6/9/12/18/24/36/48/54 Mbps
Channel Control	Auto
Antenna Type	Dipole
Antenna Gain	2.14dBi

Note:

This product has three models for different marketing requirements. From the above models, model: P-660W-T1 v2 was selected as a representative model for the test and its data were recorded in this report

Component	
Adapter	Manufacture: DVE M/N: DV-121AACS Input: 120V, 60Hz, 23W Output: 12VAC, 1000mA

802.11b/g Antenna List

No.	Manufacturer	Model No.	Peak Gain
1	Cortec	2.4 GHz External Antenna, AN2400-1702BO	2.14dBi

802.11b/g Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz	04	2427 MHz
05	2432 MHz	06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	10	2457 MHz	11	2462 MHz	--	--

**1.2. Mode of Operation**

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:

Test Mode
Mode 1: Transmit by 802.11b
Mode 2: Transmit by 802.11g

**Note:**

1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.
2. This device is a composite device in accordance with Part 15 Subpart B regulations. The function for the receiver was measured and made a test report that the report number is 084S013-IT-US-P01V02, certified under Declaration of Conformity.

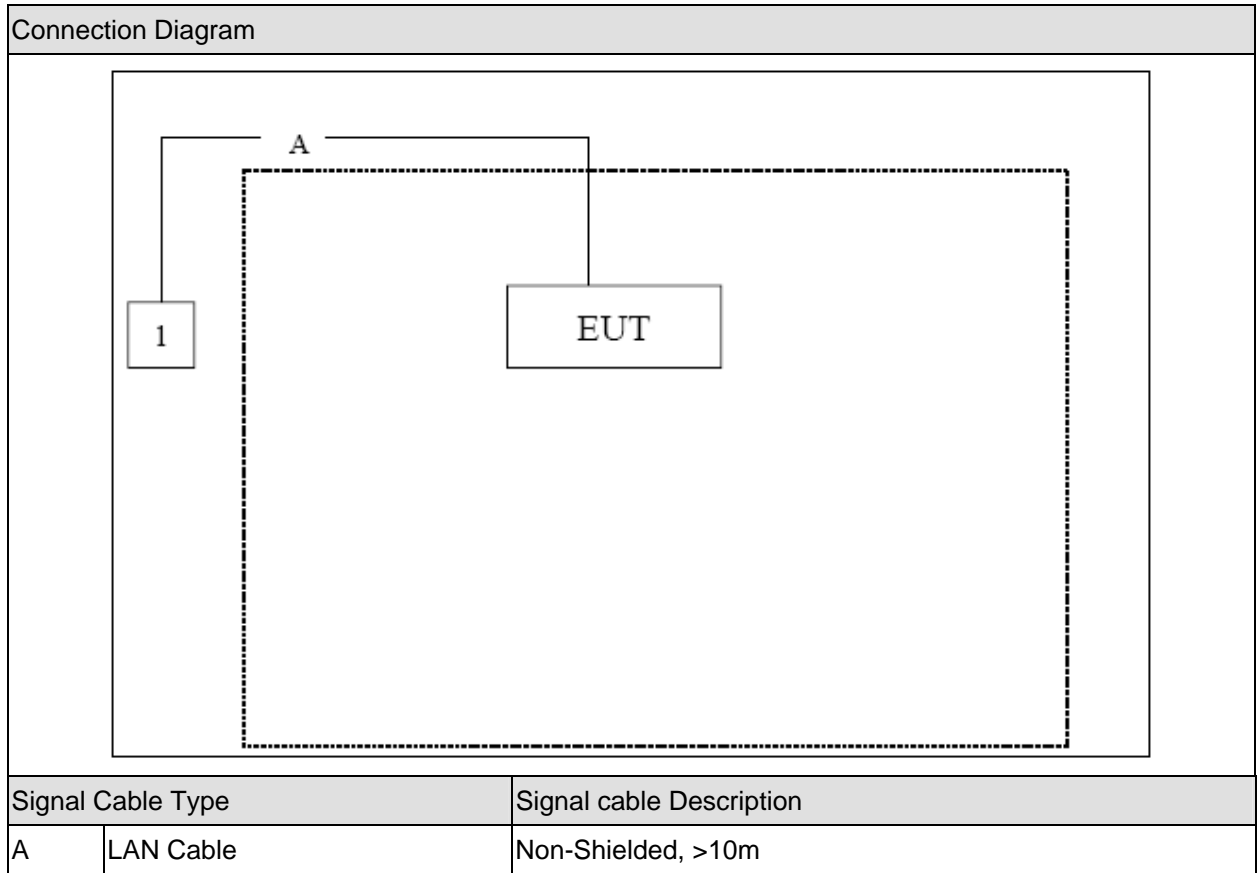


**1.3. Tested System Details**

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	DELL	PP19L	JH097 A01	Power by adapter

1.4. Configuration of Tested System



**1.5. EUT Exercise Software**

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of all equipment.
3	Execute the software ART.EXE (Version 2.4), let the EUT continuous transmit.

## 2. Technical Test

### 2.1. Summary of Test Result

- No deviations from the test standards  
 Deviations from the test standards as below description:

Performed Test Item	Normative References	Test Performed	Deviation
Conducted Emission	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.207	Yes	No
Radiated Emission	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.209	Yes	No
RF Antenna Conducted Spurious	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.247(d)	Yes	No
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart C: 2007 15.247(d)	Yes	No
Operation Frequency Range of 20dB Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2007 15.215(c)	Yes	No
Occupied Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.247(a)(2)	Yes	No
Power Output	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.247(b)(3)	Yes	No
Power Spectral Density	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.247(e)	Yes	No

**2.2. Test Environment**

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	21
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

### 3. Conducted Emission

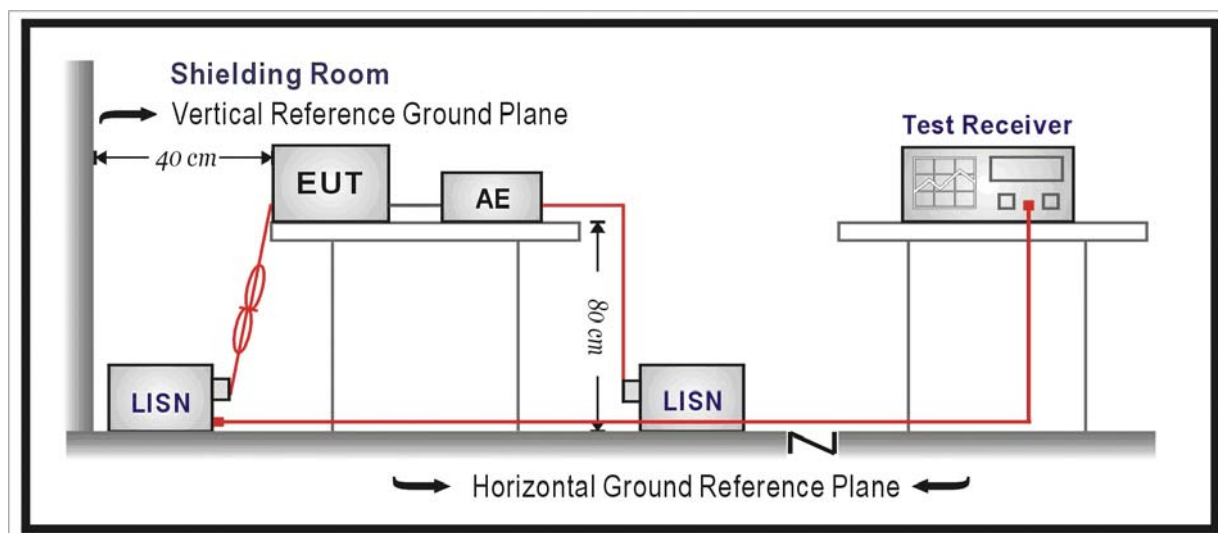
#### 3.1. Test Equipment

Conducted Emission / SR-1

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
EMI Test Receiver	R&S	ESCI	100176	2007/11/15
Two-Line V-Network	R&S	ENV216	100013	2007/11/15
Two-Line V-Network	R&S	ENV216	100014	2007/11/15
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2007/11/25
50ohm Termination	SHX	TF2	07081401	2007/10/19
Coaxial Cable	Luthi	RG214	519358	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH004	2008/03/31

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

#### 3.2. Test Setup



**3.3. Limit**

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

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

**3.4. Test Procedure**

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

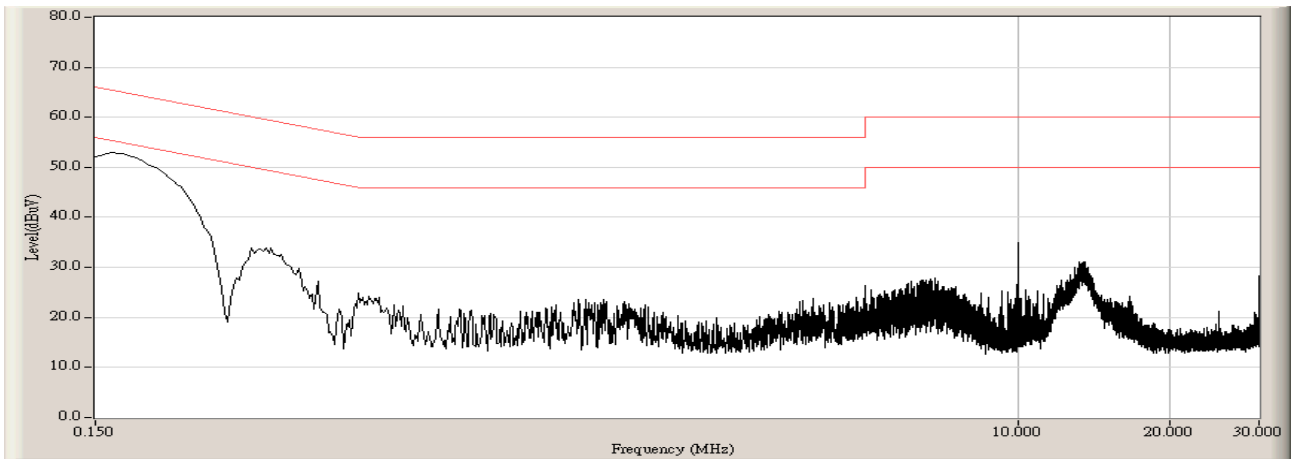
The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

**3.5. Uncertainty**

The measurement uncertainty is defined as  $\pm 2.02$  dB

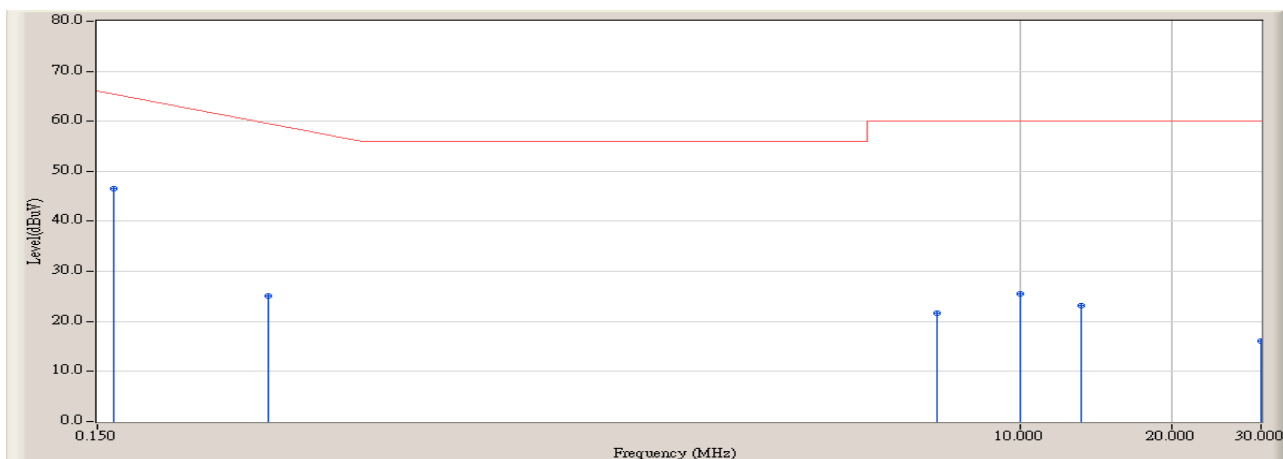
**3.6. Test Result**

Engineer : Robin	
Site : SR1 (Shielded Room for Conducted Emission and Power Disturbance Test)	Time : 2008/03/26 - 09:39
Limit : FCC_Part15.207_QP	Margin : 10
EUT : 802.11g Wireless ADSL2+ Router	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz





Engineer : Robin	
Site : SR1 (Shielded Room for Conducted Emission and Power Disturbance Test)	Time : 2008/03/26 - 09:43
Limit : FCC_Part15.207_QP	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz

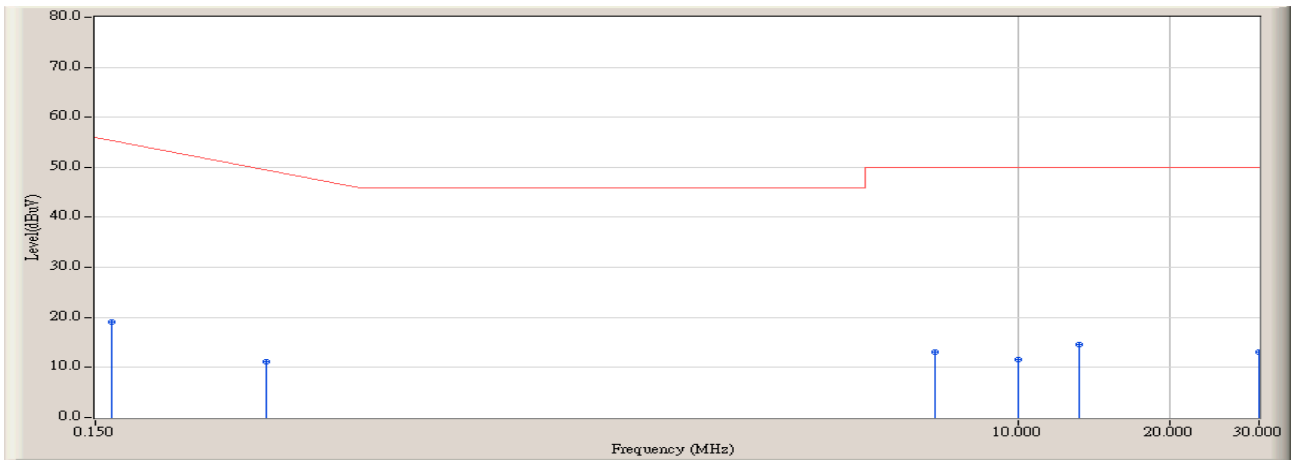


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.162	10.161	36.300	46.461	-19.196	65.657	QUASIPeAK
2		0.326	9.521	15.500	25.021	-35.950	60.971	QUASIPeAK
3		6.874	9.880	11.800	21.680	-38.320	60.000	QUASIPeAK
4		10.000	9.880	15.600	25.480	-34.520	60.000	QUASIPeAK
5		13.254	10.060	13.100	23.160	-36.840	60.000	QUASIPeAK
6		29.930	10.400	5.700	16.100	-43.900	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

Engineer : Robin	
Site : SR1 (Shielded Room for Conducted Emission and Power Disturbance Test)	Time : 2008/03/26 - 09:43
Limit : FCC_Part15.207_AV	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz

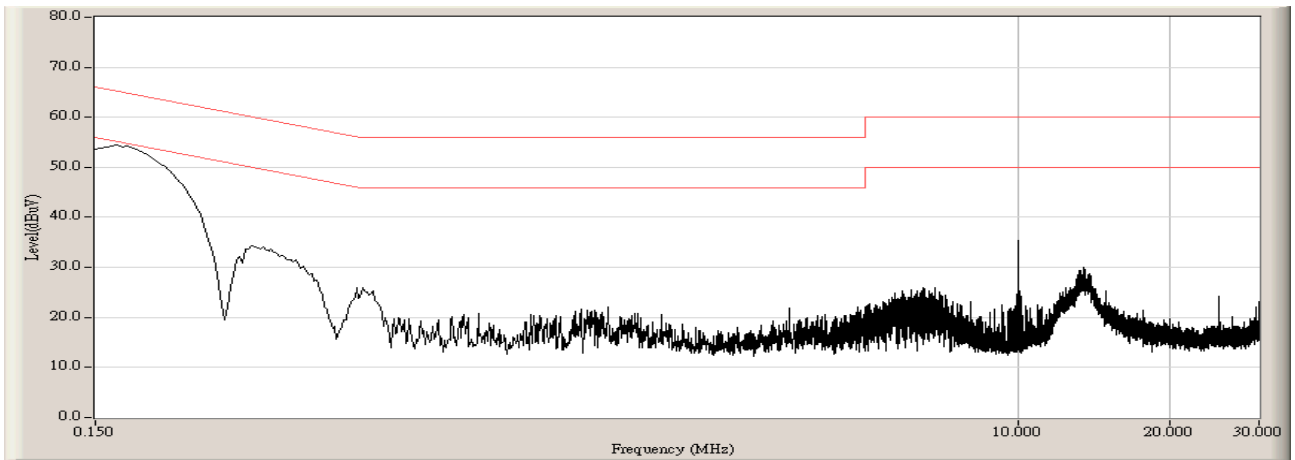


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	10.161	8.900	19.061	-36.596	55.657	AVERAGE
2		0.326	9.521	1.700	11.221	-39.750	50.971	AVERAGE
3		6.874	9.880	3.300	13.180	-36.820	50.000	AVERAGE
4		10.000	9.880	1.600	11.480	-38.520	50.000	AVERAGE
5	*	13.254	10.060	4.500	14.560	-35.440	50.000	AVERAGE
6		29.930	10.400	2.600	13.000	-37.000	50.000	AVERAGE

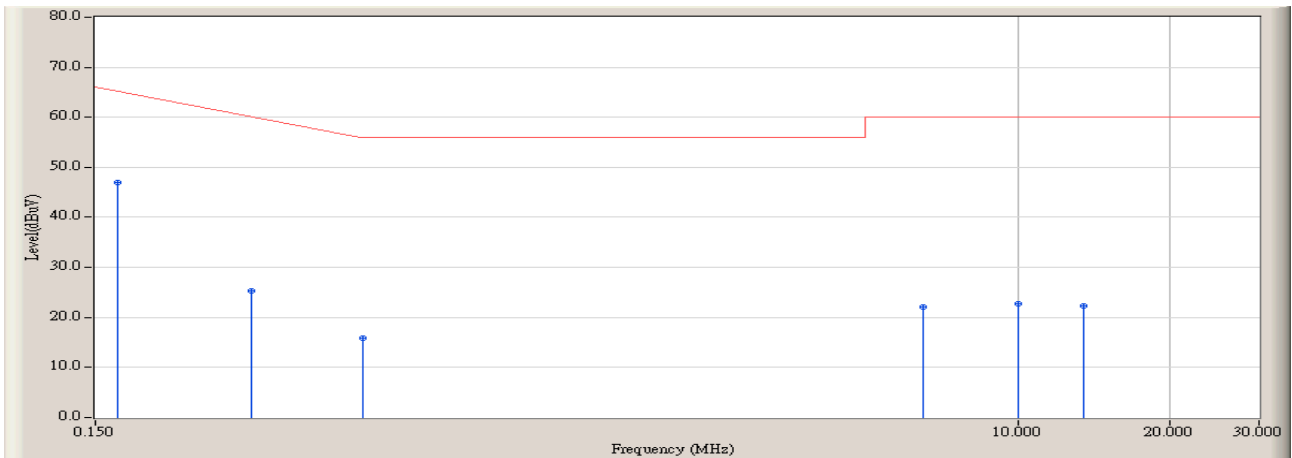
**Note:**

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

<b>Engineer : Robin</b>	
<b>Site : SR1 (Shielded Room for Conducted Emission and Power Disturbance Test)</b>	<b>Time : 2008/03/26 - 09:46</b>
<b>Limit : FCC_Part15.207_QP</b>	<b>Margin : 10</b>
<b>EUT : 802.11g Wireless ADSL2+ Router</b>	<b>Probe : ENV216_100014(0.009-30MHz) - Line2</b>
<b>Power : AC 120V/60Hz</b>	<b>Note : Mode 1: Transmit by 802.11b at channel 2437MHz</b>



Engineer : Robin	
Site : SR1 (Shielded Room for Conducted Emission and Power Disturbance Test)	Time : 2008/03/26 - 09:48
Limit : FCC_Part15.207_QP	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz

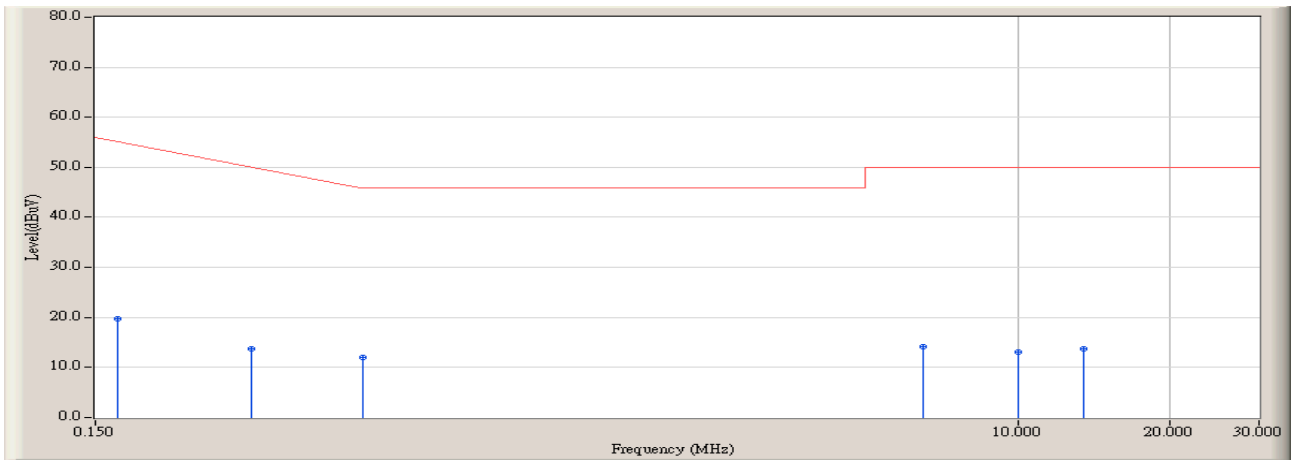


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.166	9.952	37.000	46.952	-18.591	65.543	QUASIPeAK
2		0.306	9.600	15.700	25.300	-36.243	61.543	QUASIPeAK
3		0.506	9.626	6.300	15.926	-40.074	56.000	QUASIPeAK
4		6.516	9.830	12.300	22.130	-37.870	60.000	QUASIPeAK
5		10.000	9.860	12.800	22.660	-37.340	60.000	QUASIPeAK
6		13.462	10.040	12.300	22.340	-37.660	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

Engineer : Robin	
Site : SR1 (Shielded Room for Conducted Emission and Power Disturbance Test)	Time : 2008/03/26 - 09:48
Limit : FCC_Part15.207_AV	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz

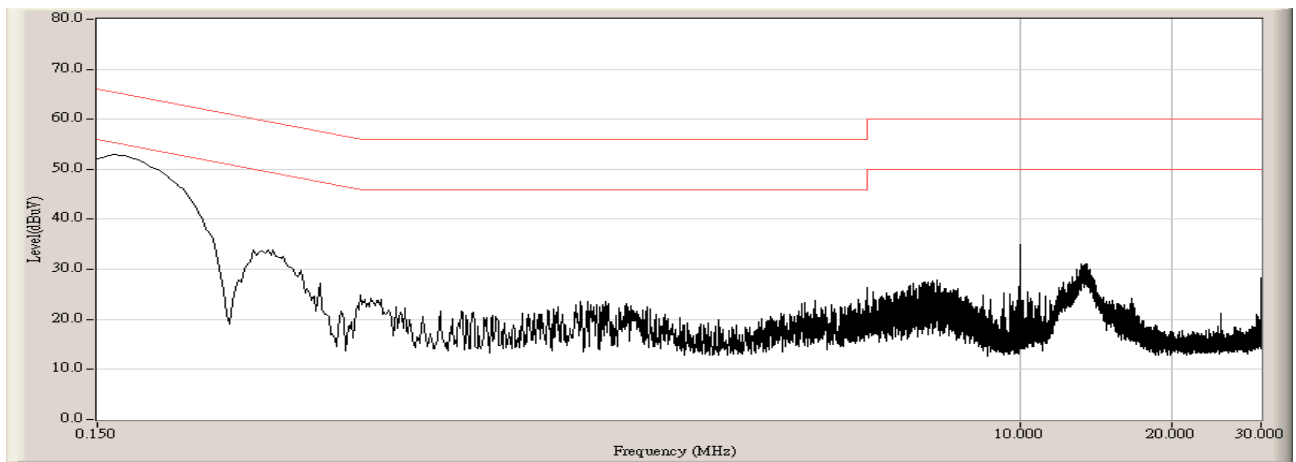


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.166	9.952	9.800	19.752	-35.791	55.543	AVERAGE
2		0.306	9.600	4.200	13.800	-37.743	51.543	AVERAGE
3	*	0.506	9.626	2.300	11.926	-34.074	46.000	AVERAGE
4		6.516	9.830	4.300	14.130	-35.870	50.000	AVERAGE
5		10.000	9.860	3.200	13.060	-36.940	50.000	AVERAGE
6		13.462	10.040	3.700	13.740	-36.260	50.000	AVERAGE

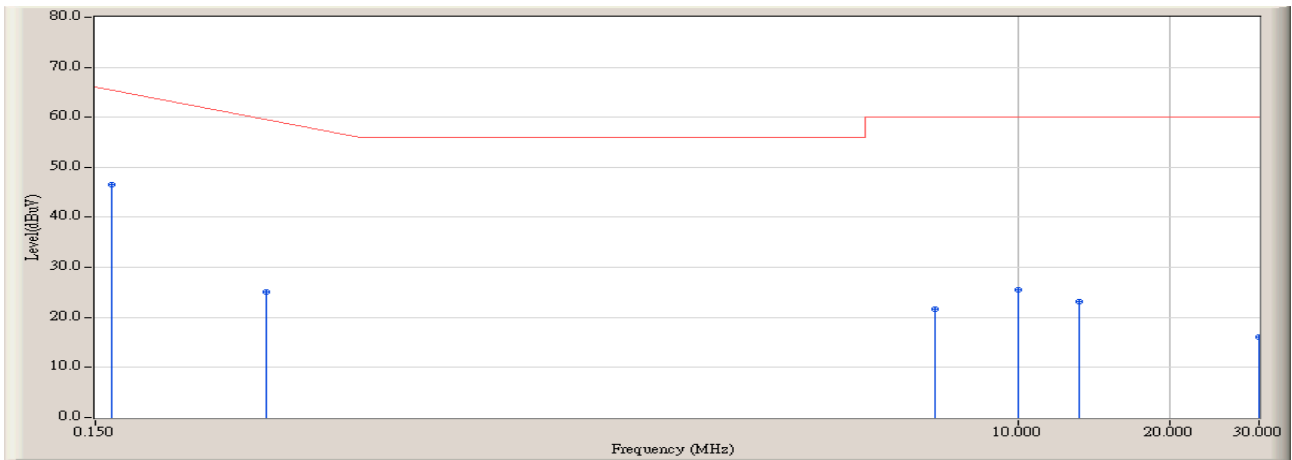
**Note:**

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

Engineer : Robin	
Site : SR1 (Shielded Room for Conducted Emission and Power Disturbance Test)	Time : 2008/03/26 - 09:50
Limit : FCC_Part15.207_QP	Margin : 10
EUT : 802.11g Wireless ADSL2+ Router	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz



Engineer : Robin	
Site : SR1 (Shielded Room for Conducted Emission and Power Disturbance Test)	Time : 2008/03/26 - 09:53
Limit : FCC_Part15.207_QP	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz

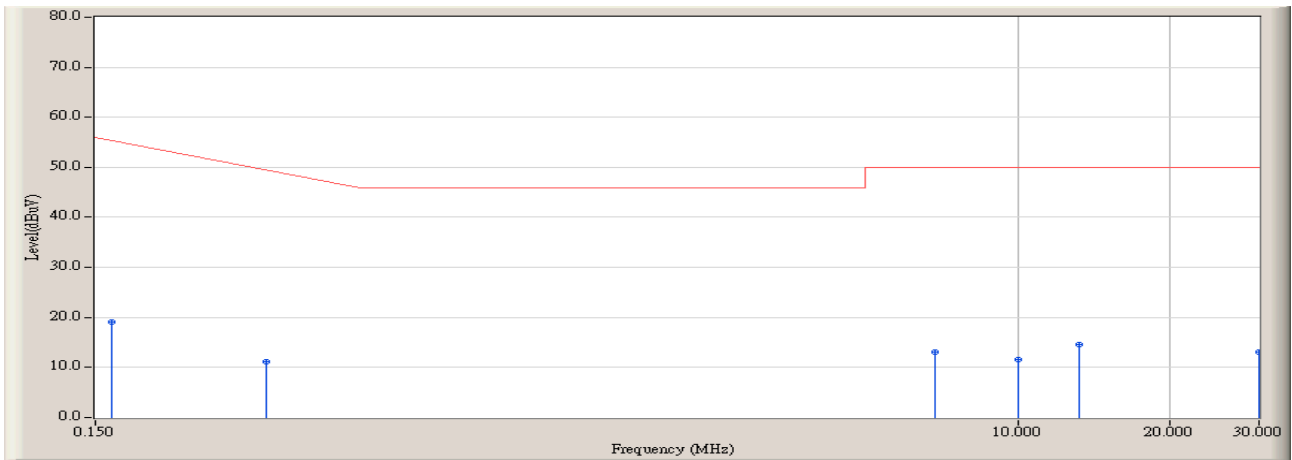


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.162	10.161	36.300	46.461	-19.196	65.657	QUASIPeAK
2		0.326	9.521	15.500	25.021	-35.950	60.971	QUASIPeAK
3		6.874	9.880	11.800	21.680	-38.320	60.000	QUASIPeAK
4		10.000	9.880	15.600	25.480	-34.520	60.000	QUASIPeAK
5		13.254	10.060	13.100	23.160	-36.840	60.000	QUASIPeAK
6		29.930	10.400	5.700	16.100	-43.900	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

Engineer : Robin	
Site : SR1 (Shielded Room for Conducted Emission and Power Disturbance Test)	Time : 2008/03/26 - 09:53
Limit : FCC_Part15.207_AV	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz



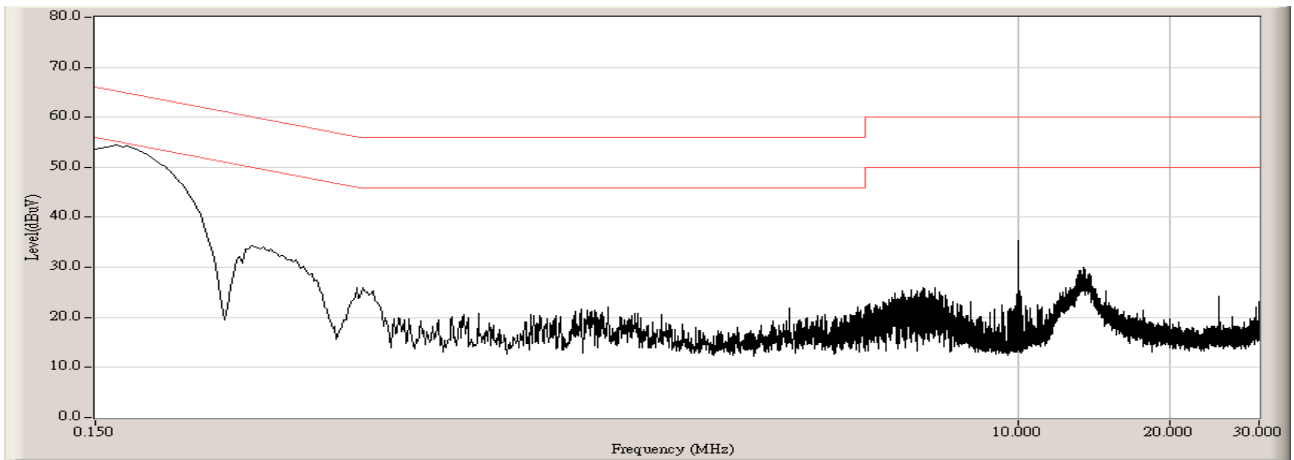
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.162	10.161	8.900	19.061	-36.596	55.657	AVERAGE
2		0.326	9.521	1.700	11.221	-39.750	50.971	AVERAGE
3		6.874	9.880	3.300	13.180	-36.820	50.000	AVERAGE
4		10.000	9.880	1.600	11.480	-38.520	50.000	AVERAGE
5	*	13.254	10.060	4.500	14.560	-35.440	50.000	AVERAGE
6		29.930	10.400	2.600	13.000	-37.000	50.000	AVERAGE

**Note:**

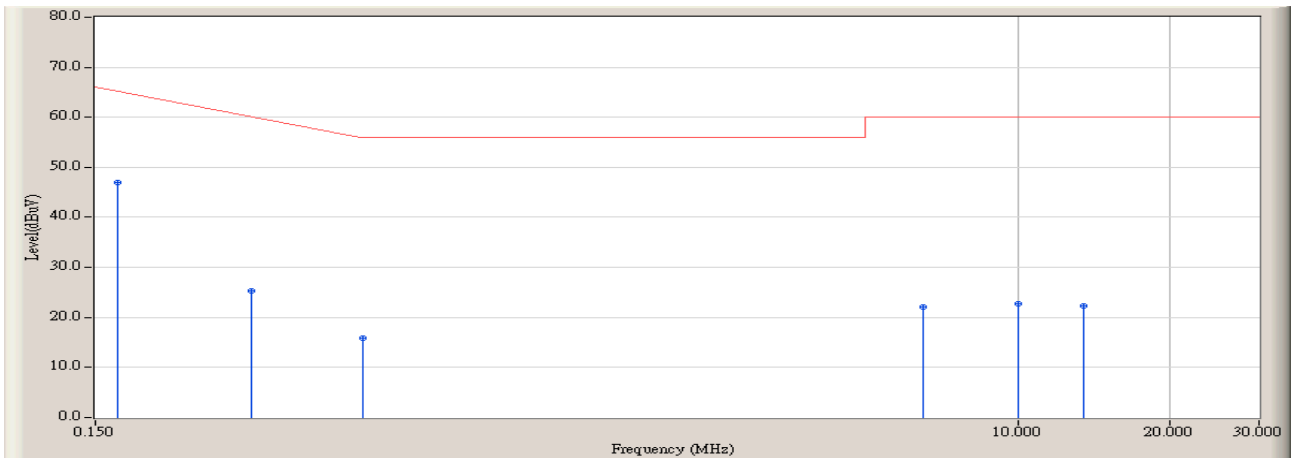
1. All Reading Levels are Quasi-Peak and average value.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Engineer : Robin	
Site : SR1 (Shielded Room for Conducted Emission and Power Disturbance Test)	Time : 2008/03/26 - 09:56
Limit : FCC_Part15.207_QP	Margin : 10
EUT : 802.11g Wireless ADSL2+ Router	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz



Engineer : Robin	
Site : SR1 (Shielded Room for Conducted Emission and Power Disturbance Test)	Time : 2008/03/26 - 09:58
Limit : FCC_Part15.207_QP	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz

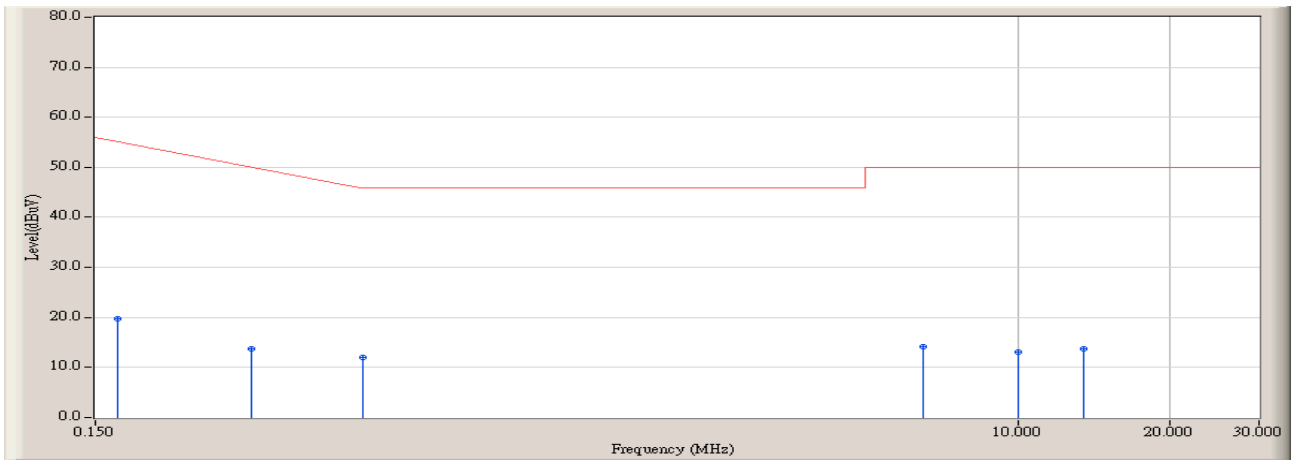


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.166	9.952	37.000	46.952	-18.591	65.543	QUASIPeAK
2		0.306	9.600	15.700	25.300	-36.243	61.543	QUASIPeAK
3		0.506	9.626	6.300	15.926	-40.074	56.000	QUASIPeAK
4		6.516	9.830	12.300	22.130	-37.870	60.000	QUASIPeAK
5		10.000	9.860	12.800	22.660	-37.340	60.000	QUASIPeAK
6		13.462	10.040	12.300	22.340	-37.660	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

Engineer : Robin	
Site : SR1 (Shielded Room for Conducted Emission and Power Disturbance Test)	Time : 2008/03/26 - 09:58
Limit : FCC_Part15.207_AV	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.166	9.952	9.800	19.752	-35.791	55.543	AVERAGE
2		0.306	9.600	4.200	13.800	-37.743	51.543	AVERAGE
3	*	0.506	9.626	2.300	11.926	-34.074	46.000	AVERAGE
4		6.516	9.830	4.300	14.130	-35.870	50.000	AVERAGE
5		10.000	9.860	3.200	13.060	-36.940	50.000	AVERAGE
6		13.462	10.040	3.700	13.740	-36.260	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

**4. Radiated Emission**

**4.1. Test Equipment**

Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4408B	MY45102679	2007/11/12
EMI Test Receiver	R&S	ESCI	100573	2007/05/23
Preamplifier	Quietek	AP-025C	QT-AP003	2007/11/25
Preamplifier	Quietek	AP-180C	CHM-0602012	2007/11/25
Bilog Type Antenna	Schaffner	CBL6112B	2932	2007/11/22
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2007/11/25
50ohm Coaxial Switch	Anritsu	MP59B	6200447304	2007/11/25
Coaxial Cable	Huber+Suhner	AC2-C	04	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH002	2008/03/31

Radiated Emission / AC-3

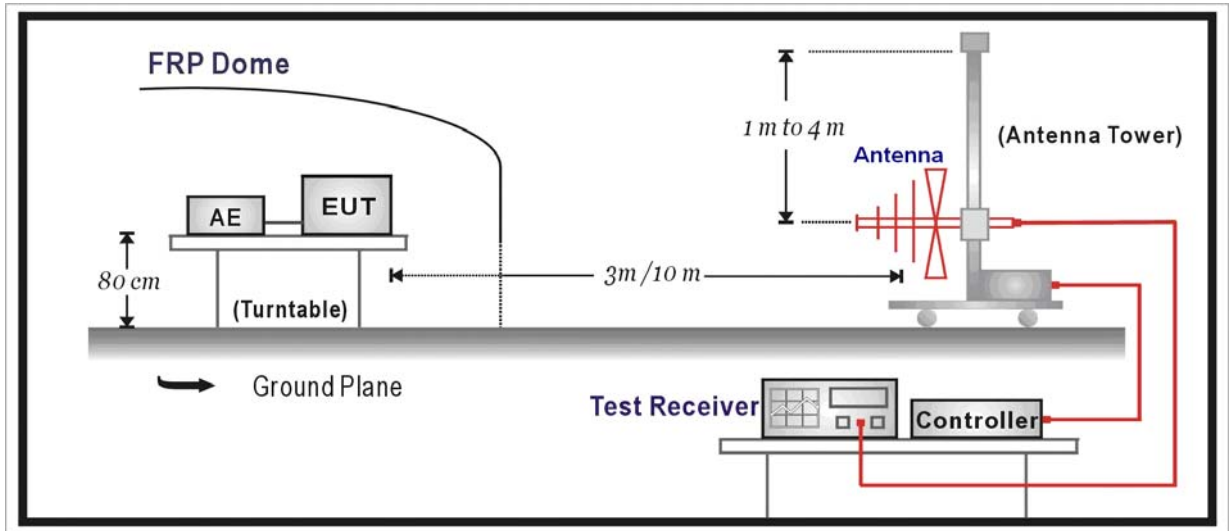
Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4408B	MY45102679	2007/11/12
EMI Test Receiver	R&S	ESCI	100176	2007/11/15
Preamplifier	Quietek	AP-025C	QT-AP004	2007/11/25
Preamplifier	Quietek	AP-180C	CHM-0602012	2007/11/25
Bilog Type Antenna	Schaffner	CBL6112D	22254	2007/11/22
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2007/11/25
50ohm Coaxial Switch	Anritsu	MP59B	6200464463	2007/11/25
Coaxial Cable	Huber+Suhner	AC2-C	05	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH003	2008/03/31

Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

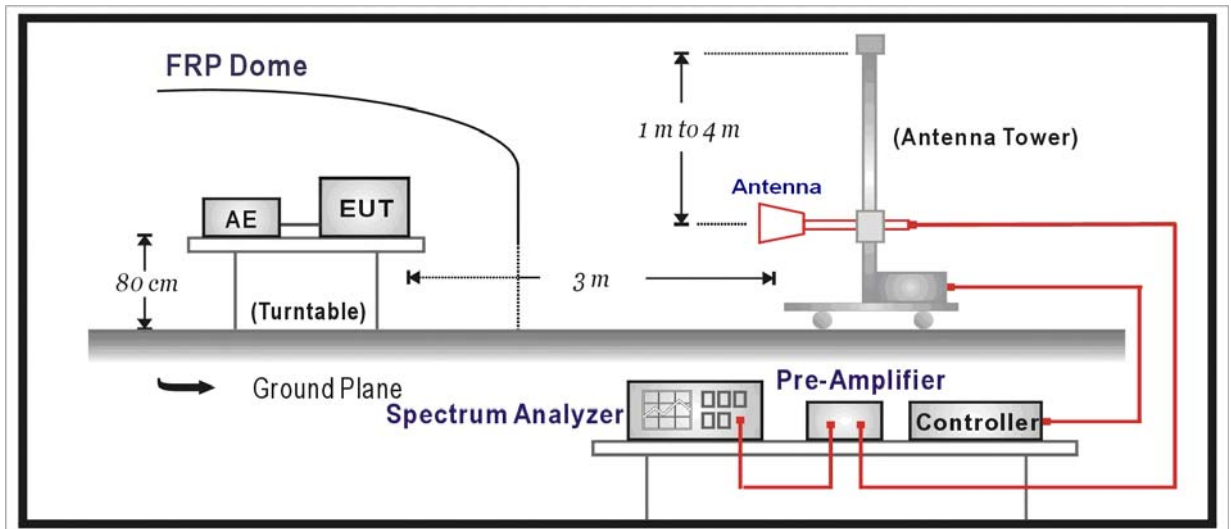
Note 2: The test instruments marked with "X" are used to measure the final test results.

### 4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



**4.3. Limit**

FCC Part 15 Subpart C Paragraph 15.209		
Frequency (MHz)	Distance (m)	Level (dBuV/m)
30 - 88	3	40
88 - 216	3	43.5
216 - 960	3	46
Above 960	3	54

Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Note 3: E field strength (dBuV/m) = 20 log E field strength (uV/m)

**4.4. Test Procedure**

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 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 is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2003 on radiated measurement.

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

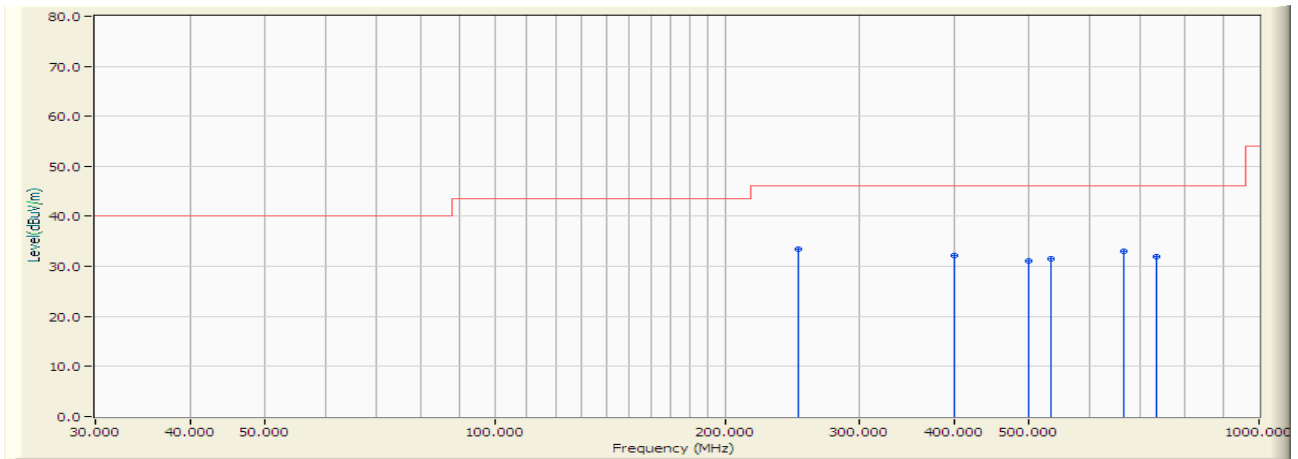
The frequency range from 30MHz to 10th harmonic is checked.

**4.5. Uncertainty**

The measurement uncertainty above 1G is defined as ± 3.9 dB  
 below 1G is defined as ± 3.8 dB

4.6. Test Result

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/28 - 15:50
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : CBL6112B_2932(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

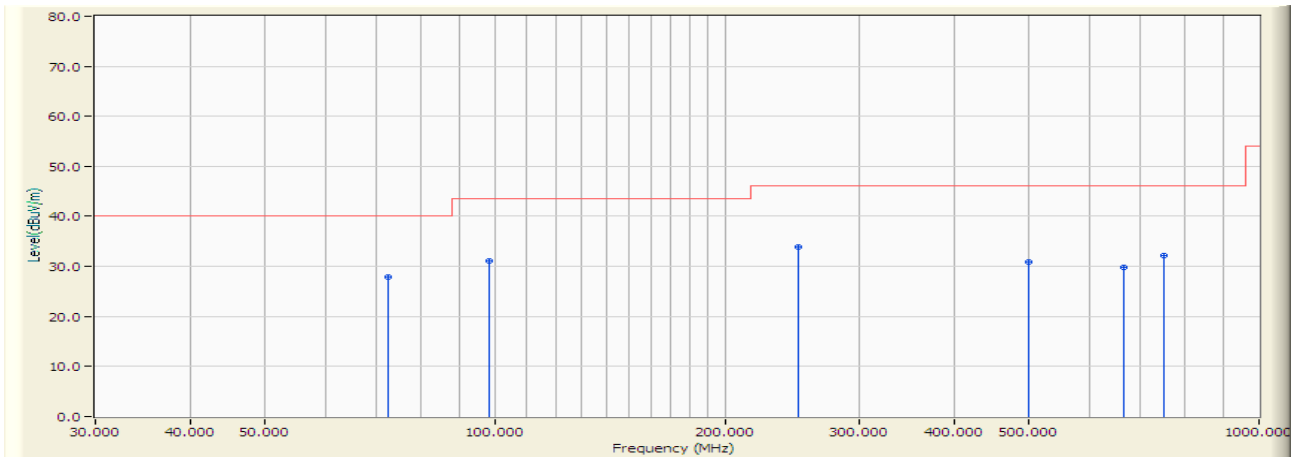


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	250.000	-8.178	41.600	33.422	-12.598	46.020	QUASIPeAK	135.000	221.400
2		399.950	-3.541	35.700	32.160	-13.860	46.020	QUASIPeAK	100.000	165.000
3		500.000	-1.802	32.900	31.098	-14.922	46.020	QUASIPeAK	106.000	179.500
4		533.350	-0.866	32.300	31.433	-14.587	46.020	QUASIPeAK	100.000	139.000
5		666.675	0.388	32.700	33.088	-12.932	46.020	QUASIPeAK	114.000	208.000
6		732.625	1.415	30.500	31.915	-14.105	46.020	QUASIPeAK	215.000	266.000

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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/28 - 15:51
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : CBL6112B_2932(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz



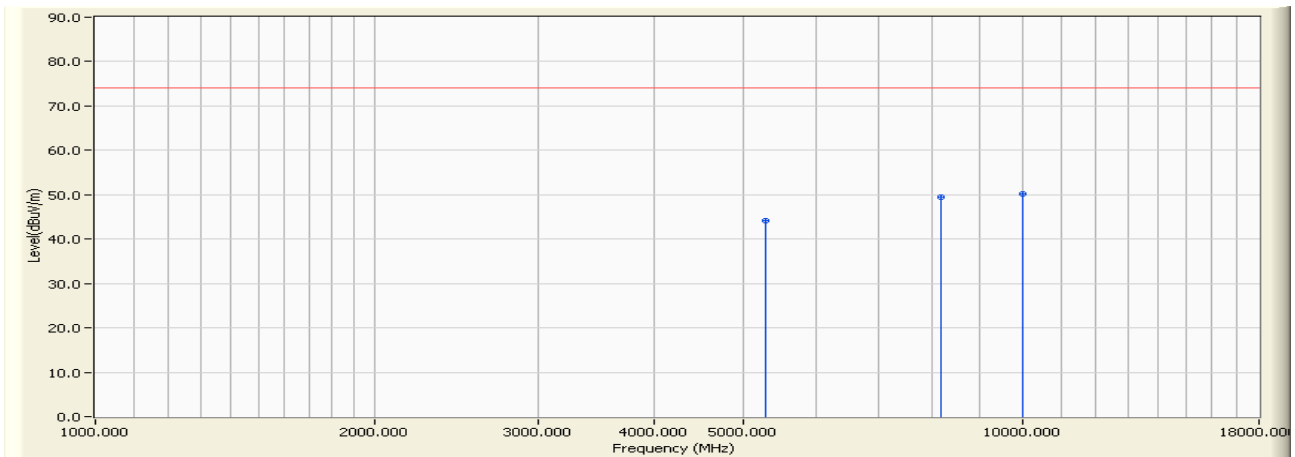
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	72.425	-15.577	43.500	27.924	-12.076	40.000	QUASIPeAK	100.000	217.900
2		98.450	-10.682	41.800	31.118	-12.402	43.520	QUASIPeAK	102.000	136.500
3		250.000	-8.178	42.000	33.822	-12.198	46.020	QUASIPeAK	100.000	81.600
4		499.995	-1.802	32.700	30.898	-15.122	46.020	QUASIPeAK	114.000	55.700
5		666.685	0.389	29.500	29.888	-16.132	46.020	QUASIPeAK	106.000	166.800
6		750.025	1.614	30.600	32.214	-13.806	46.020	QUASIPeAK	100.000	177.400

**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



Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 14:22
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

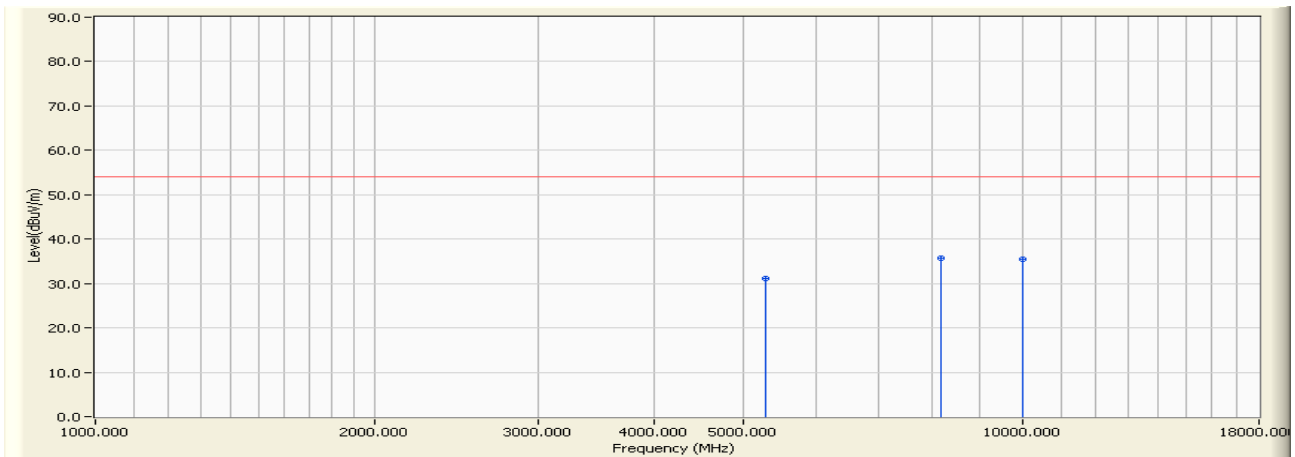


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	5292.500	6.125	37.994	44.119	-29.851	73.970	PEAK	113.200	157.800
2	8182.500	13.265	36.192	49.457	-24.513	73.970	PEAK	100.000	136.500
3	* 10010.000	14.300	35.811	50.111	-23.859	73.970	PEAK	126.300	206.000

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 14:22
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

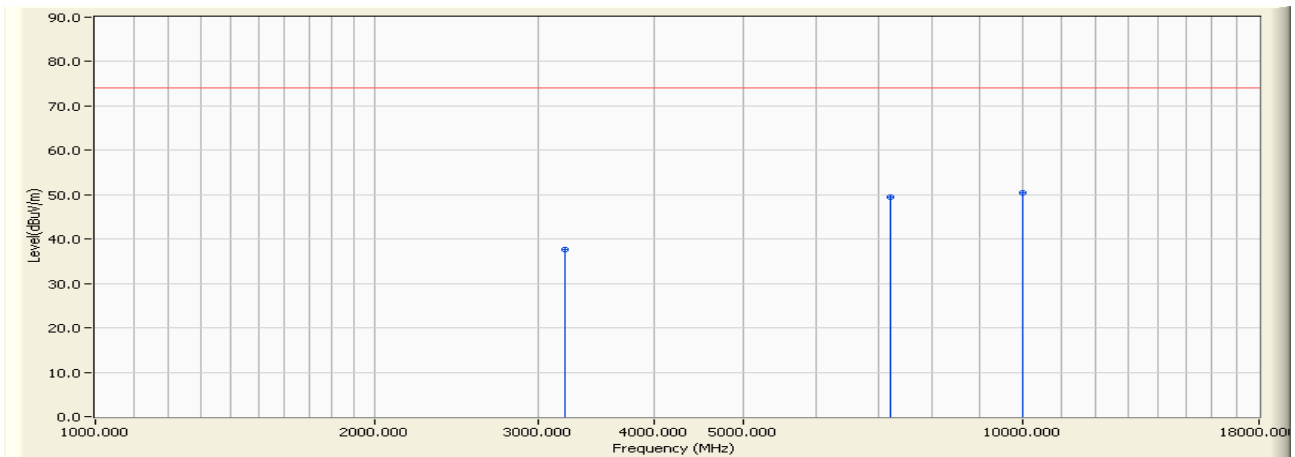


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	5292.500	6.125	24.900	31.025	-22.945	53.970	AVERAGE	113.200	157.800
2	* 8182.500	13.265	22.400	35.665	-18.305	53.970	AVERAGE	100.000	136.500
3	10010.000	14.300	21.200	35.500	-18.470	53.970	AVERAGE	126.300	206.000

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 14:22
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

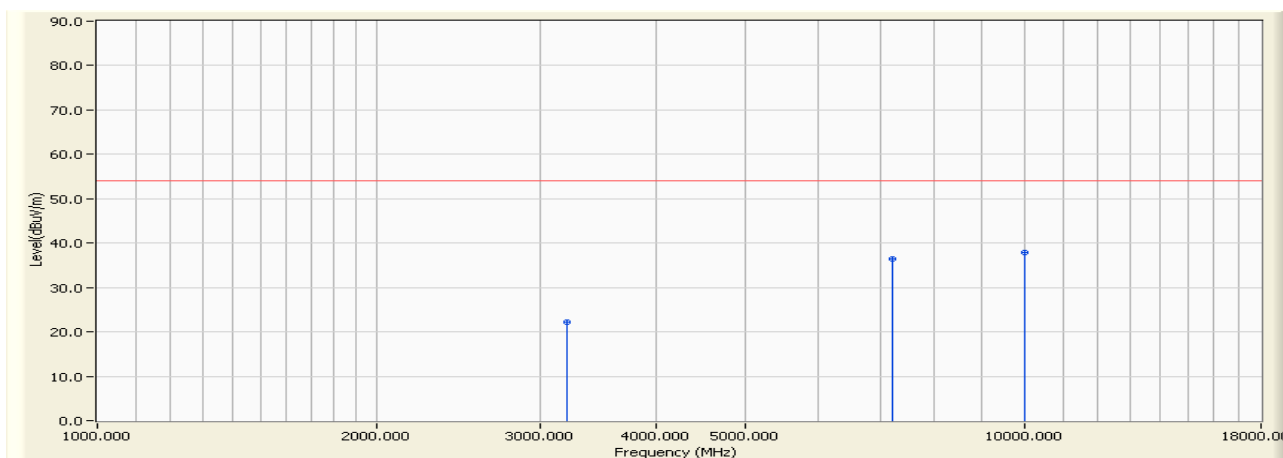


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3210.000	-3.090	40.691	37.601	-36.369	73.970	PEAK	100.000	176.000
2	7205.000	12.550	36.918	49.468	-24.502	73.970	PEAK	102.500	115.600
3	* 10010.000	14.300	36.031	50.331	-23.639	73.970	PEAK	100.000	245.400

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 14:22
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

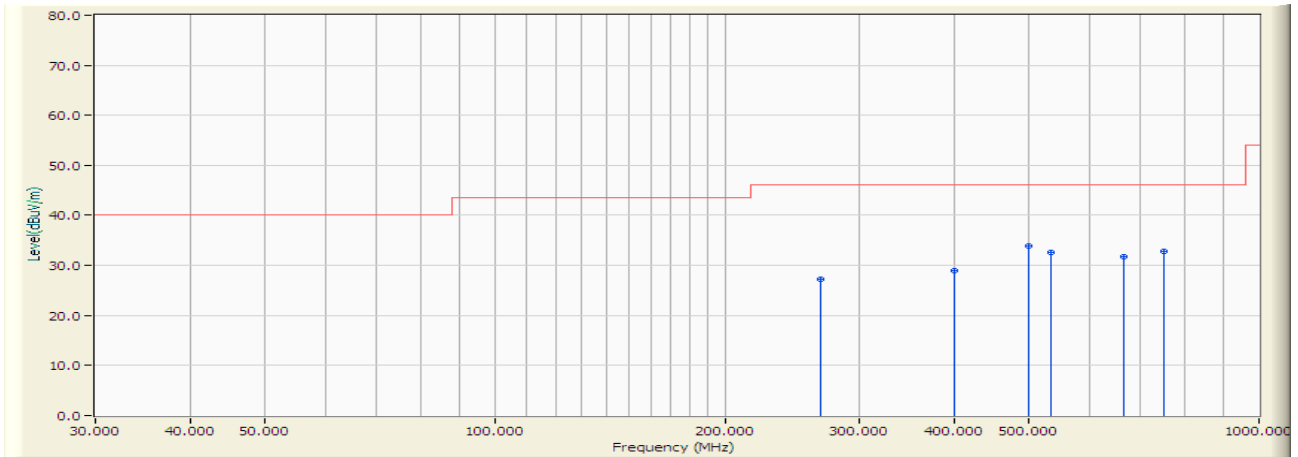


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3210.000	-3.090	25.300	22.210	-31.760	53.970	AVERAGE	100.000	176.000
2	7205.000	12.550	23.800	36.350	-17.620	53.970	AVERAGE	102.500	115.600
3	* 10010.000	14.300	23.700	38.000	-15.970	53.970	AVERAGE	100.000	245.400

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/28 - 15:51
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : CBL6112B_2932(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz

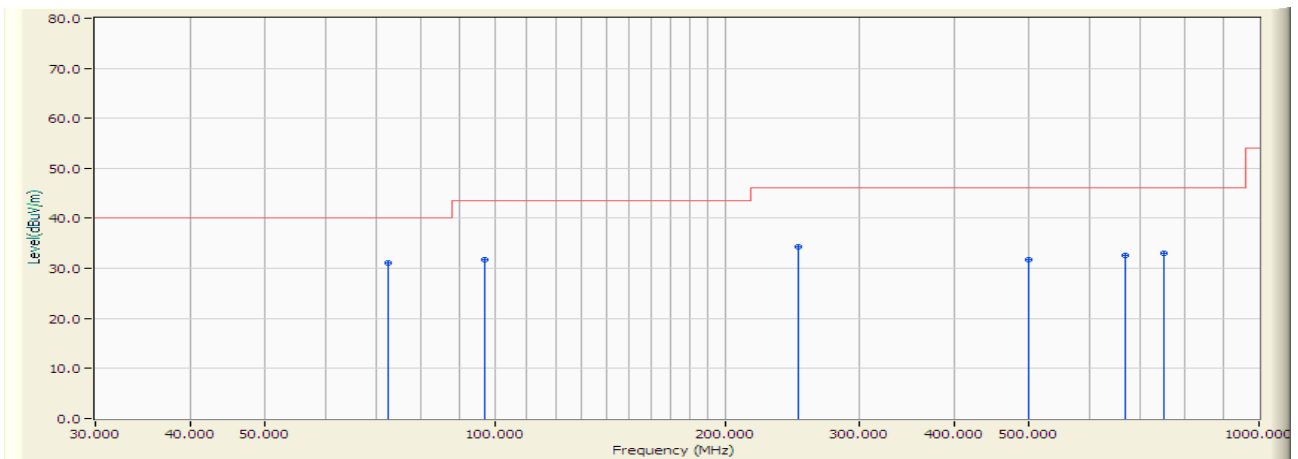


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	267.250	-7.389	34.600	27.211	-18.809	46.020	QUASPEAK	125.000	215.900
2	399.925	-3.541	32.600	29.059	-16.961	46.020	QUASPEAK	100.000	173.600
3	* 500.000	-1.802	35.600	33.798	-12.222	46.020	QUASPEAK	105.200	84.400
4	533.375	-0.866	33.500	32.635	-13.385	46.020	QUASPEAK	100.000	198.000
5	666.750	0.394	31.400	31.793	-14.227	46.020	QUASPEAK	142.800	277.500
6	750.000	1.613	31.200	32.813	-13.207	46.020	QUASPEAK	107.000	266.800

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/28 - 15:51
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : CBL6112B_2932(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz

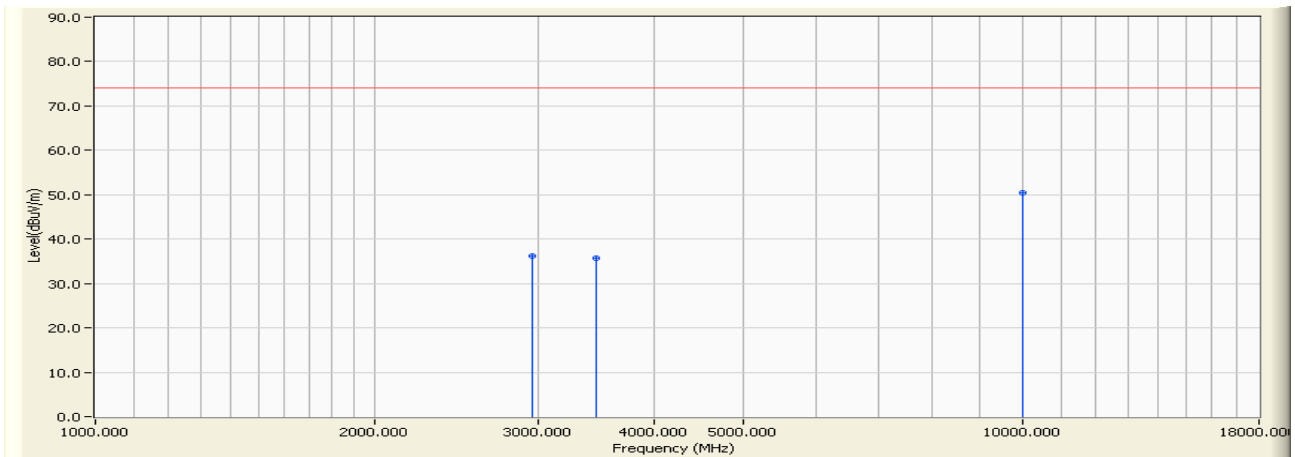


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	72.500	-15.565	46.700	31.135	-8.865	40.000	QUASIPeAK	100.000	78.400
2		96.850	-10.972	42.700	31.729	-11.791	43.520	QUASIPeAK	100.000	133.800
3		250.000	-8.178	42.400	34.222	-11.798	46.020	QUASIPeAK	108.500	227.000
4		500.000	-1.802	33.500	31.698	-14.322	46.020	QUASIPeAK	100.000	185.500
5		666.975	0.411	32.100	32.511	-13.509	46.020	QUASIPeAK	100.000	298.000
6		750.125	1.617	31.500	33.116	-12.904	46.020	QUASIPeAK	104.200	236.000

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 14:22
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz

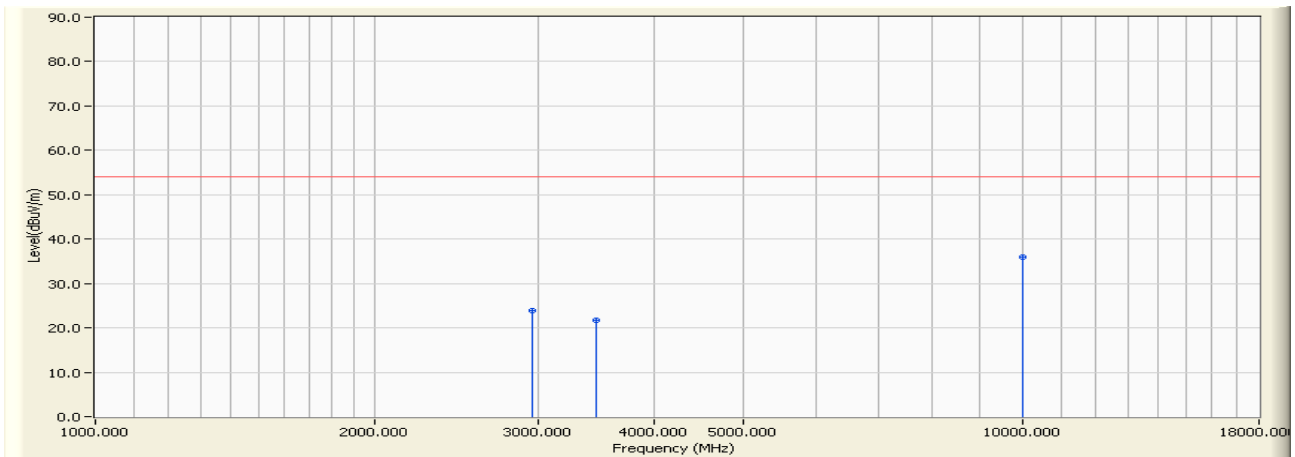


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	2955.000	-3.700	39.857	36.157	-37.813	73.970	PEAK	142.600	177.800
2	3465.000	-2.530	38.134	35.604	-38.366	73.970	PEAK	112.600	65.900
3	* 10010.000	14.300	36.161	50.461	-23.509	73.970	PEAK	106.500	286.700

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 14:22
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz



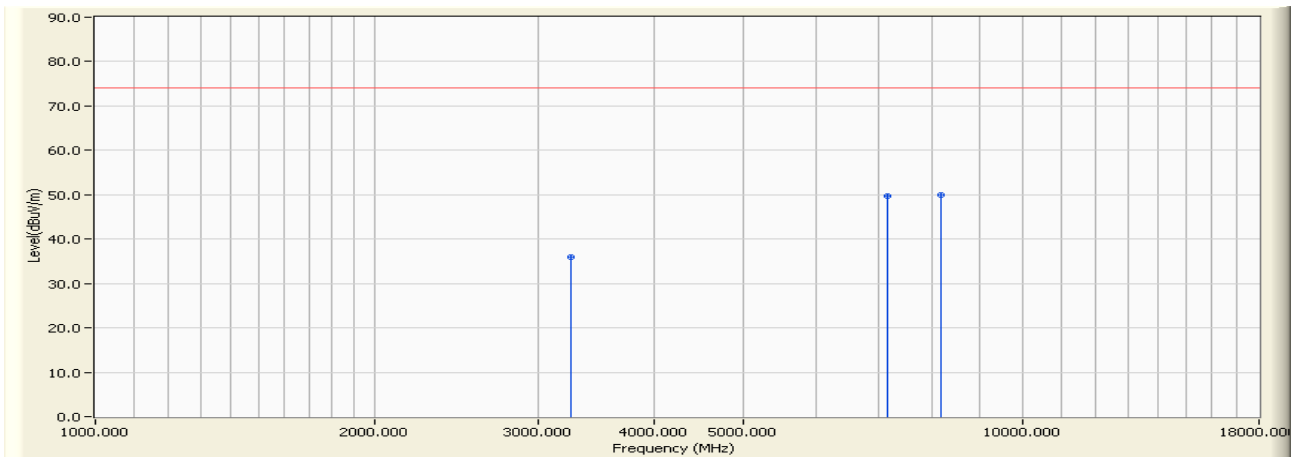
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	2955.000	-3.700	27.500	23.800	-30.170	53.970	AVERAGE	142.600	177.800
2	3465.000	-2.530	24.300	21.770	-32.200	53.970	AVERAGE	112.600	65.900
3	* 10010.000	14.300	21.600	35.900	-18.070	53.970	AVERAGE	106.500	286.700

**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



Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 14:22
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz

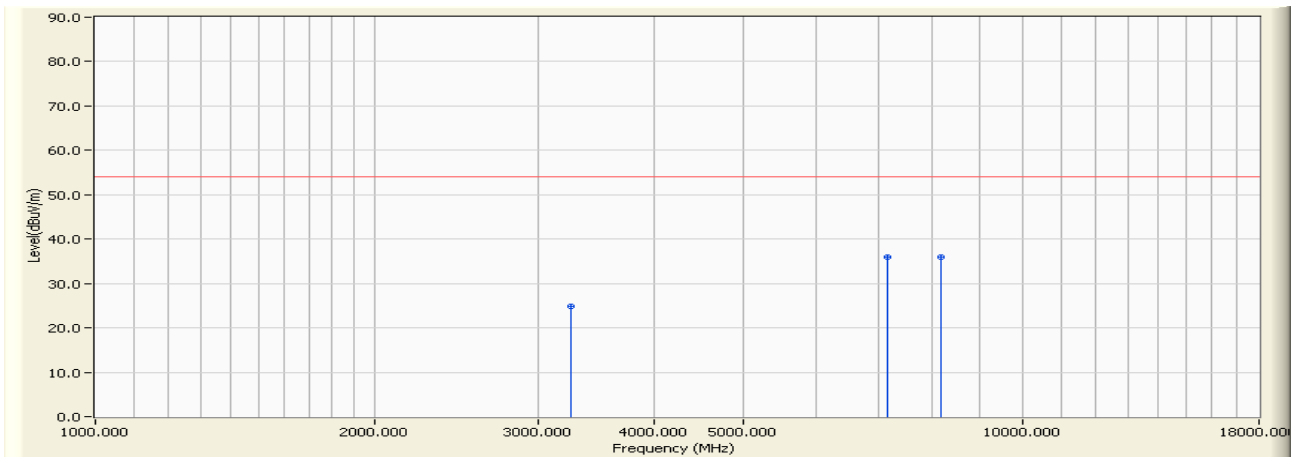


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3252.500	-3.680	39.532	35.852	-38.118	73.970	PEAK	100.000	178.500
2	7162.500	12.375	37.346	49.721	-24.249	73.970	PEAK	107.500	9.000
3	* 8182.500	13.265	36.722	49.987	-23.983	73.970	PEAK	103.600	258.000

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 14:22
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz

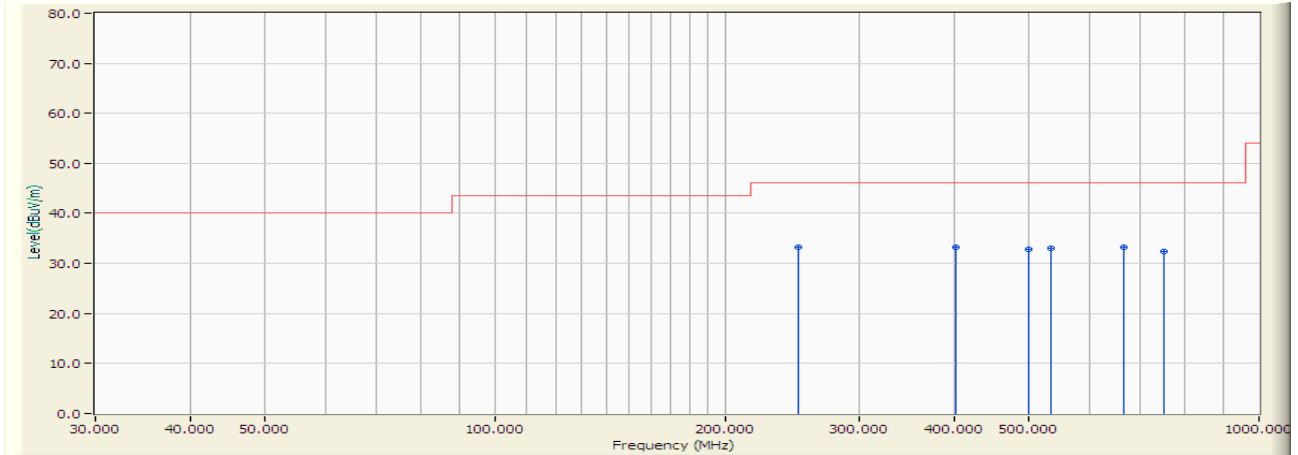


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3252.500	-3.680	28.500	24.820	-29.150	53.970	AVERAGE	100.000	178.500
2	7162.500	12.375	23.600	35.975	-17.995	53.970	AVERAGE	107.500	93.500
3	* 8182.500	13.265	22.800	36.065	-17.905	53.970	AVERAGE	103.600	258.000

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/28 - 15:52
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : CBL6112B_2932(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz

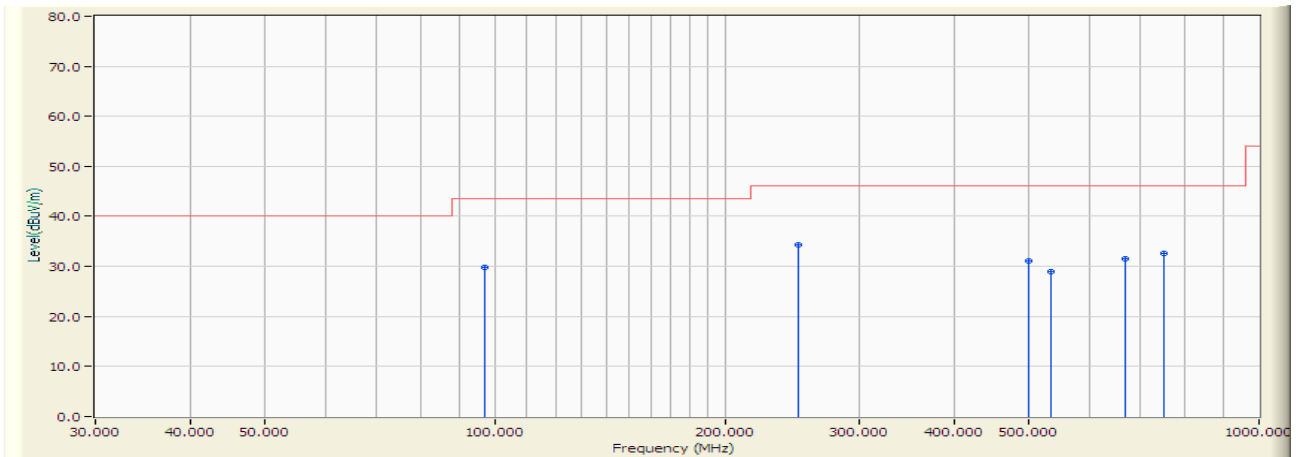


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	250.000	-8.178	41.500	33.322	-12.698	46.020	QUASPEAK	100.000	215.000
2		401.250	-3.511	36.700	33.189	-12.831	46.020	QUASPEAK	128.000	88.500
3		500.000	-1.802	34.600	32.798	-13.222	46.020	QUASPEAK	100.000	274.000
4		533.750	-0.844	33.800	32.956	-13.064	46.020	QUASPEAK	145.500	209.000
5		666.725	0.391	32.800	33.191	-12.829	46.020	QUASPEAK	177.500	93.800
6		750.000	1.613	30.700	32.313	-13.707	46.020	QUASPEAK	100.000	174.000

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/28 - 15:52
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : CBL6112B_2932(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz

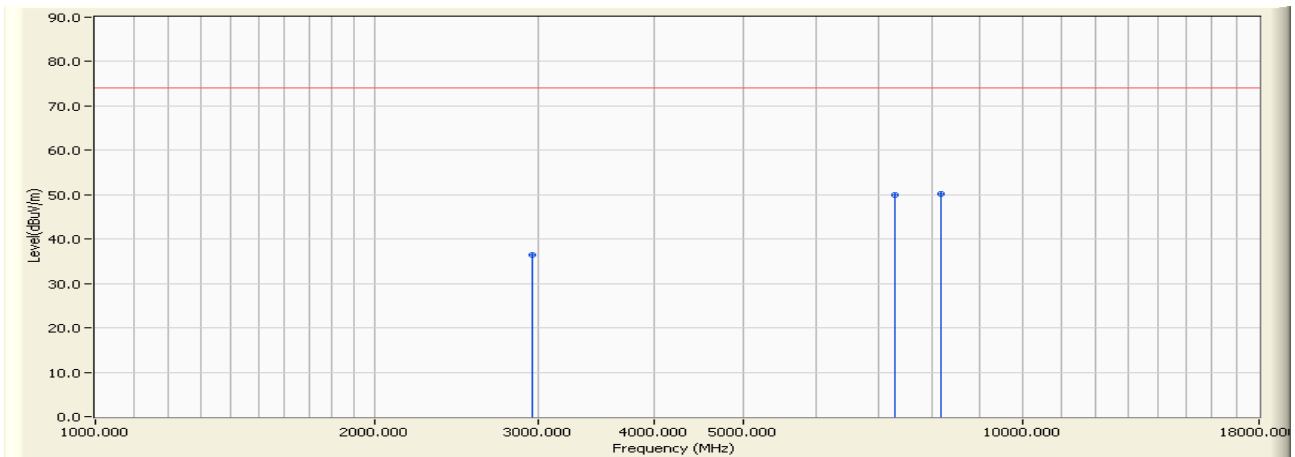


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	96.850	-10.972	40.800	29.829	-13.691	43.520	QUASIPeAK	100.000	248.000
2	* 250.000	-8.178	42.400	34.222	-11.798	46.020	QUASIPeAK	100.000	211.700
3	500.000	-1.802	32.900	31.098	-14.922	46.020	QUASIPeAK	105.600	225.000
4	533.750	-0.844	29.800	28.956	-17.064	46.020	QUASIPeAK	100.000	247.700
5	666.850	0.401	31.200	31.601	-14.419	46.020	QUASIPeAK	125.500	48.600
6	750.125	1.617	31.000	32.616	-13.404	46.020	QUASIPeAK	100.000	287.500

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 14:22
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz

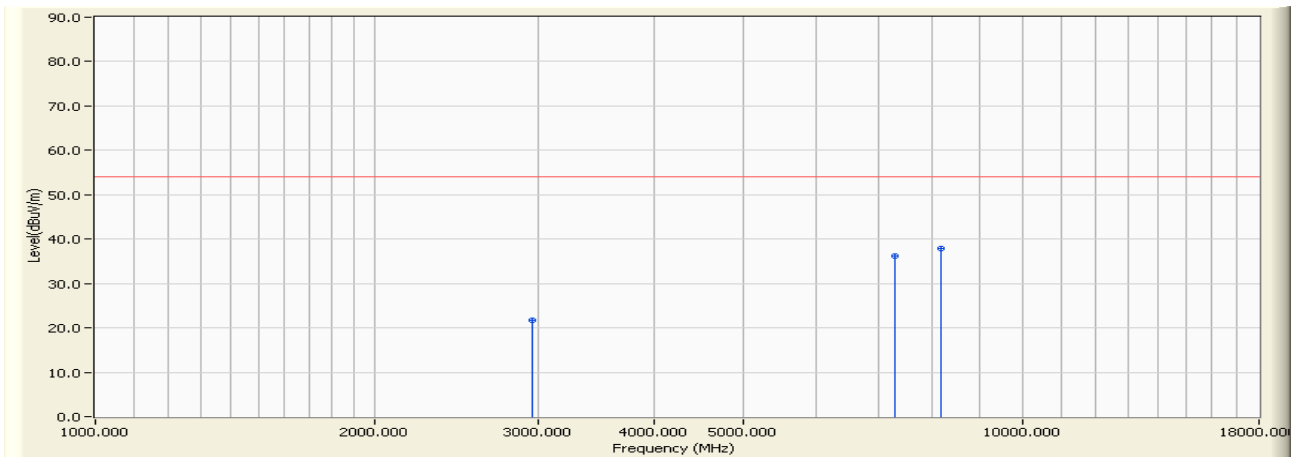


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	2955.000	-3.700	40.045	36.345	-37.625	73.970	PEAK	142.600	196.500
2	7290.000	12.180	37.693	49.873	-24.097	73.970	PEAK	116.200	93.500
3	* 8182.500	13.265	36.873	50.138	-23.832	73.970	PEAK	100.000	282.600

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 14:22
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz

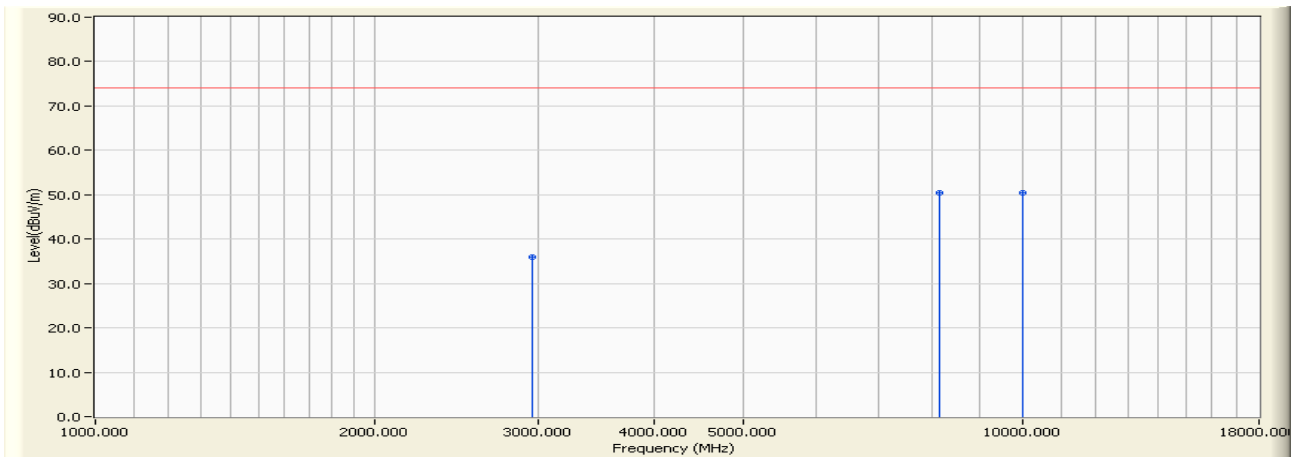


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	2955.000	-3.700	25.400	21.700	-32.270	53.970	AVERAGE	142.600	196.500
2	7290.000	12.180	23.900	36.080	-17.890	53.970	AVERAGE	116.200	93.500
3	* 8182.500	13.265	24.600	37.865	-16.105	53.970	AVERAGE	100.000	282.600

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 14:22
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz

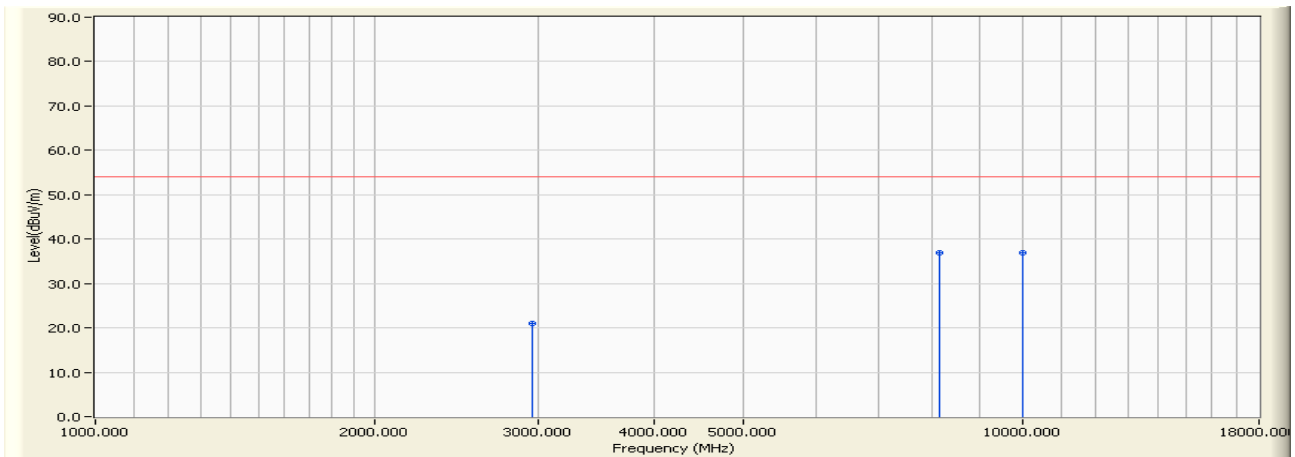


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	2955.000	-3.700	39.644	35.944	-38.026	73.970	PEAK	100.000	175.500
2	8140.000	13.110	37.199	50.309	-23.661	73.970	PEAK	106.500	135.200
3	* 10010.000	14.300	36.182	50.482	-23.488	73.970	PEAK	100.000	169.300

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 14:22
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz



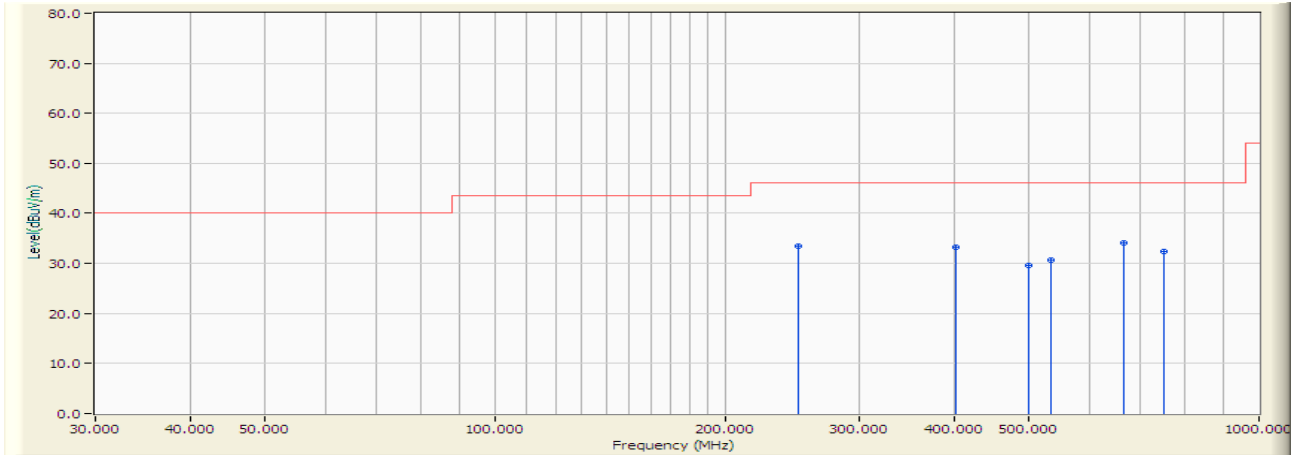
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	2955.000	-3.700	24.600	20.900	-33.070	53.970	AVERAGE	100.000	175.500
2	* 8140.000	13.110	23.900	37.010	-16.960	53.970	AVERAGE	106.500	135.200
3	10010.000	14.300	22.500	36.800	-17.170	53.970	AVERAGE	100.000	169.300

**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



Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/28 - 15:52
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : CBL6112B_2932(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz

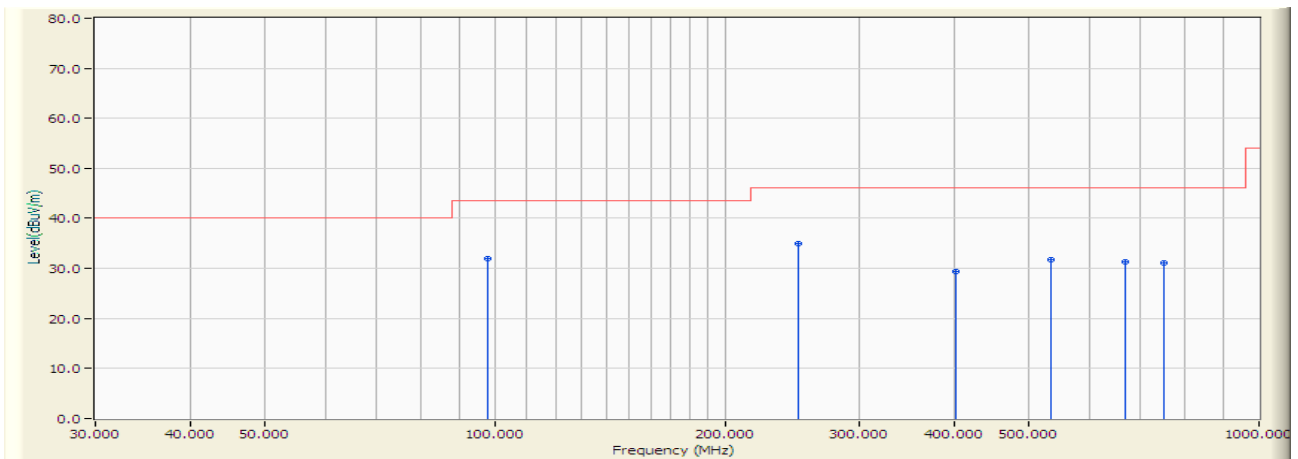


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	250.000	-8.178	41.600	33.422	-12.598	46.020	QUASPEAK	100.000	95.800
2	401.250	-3.511	36.700	33.189	-12.831	46.020	QUASPEAK	122.500	174.500
3	500.000	-1.802	31.500	29.698	-16.322	46.020	QUASPEAK	105.200	96.500
4	533.350	-0.866	31.500	30.633	-15.387	46.020	QUASPEAK	100.000	65.800
5	* 666.750	0.394	33.700	34.093	-11.927	46.020	QUASPEAK	100.000	214.000
6	750.000	1.613	30.800	32.413	-13.607	46.020	QUASPEAK	206.000	155.800

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/28 - 15:53
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : CBL6112B_2932(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz

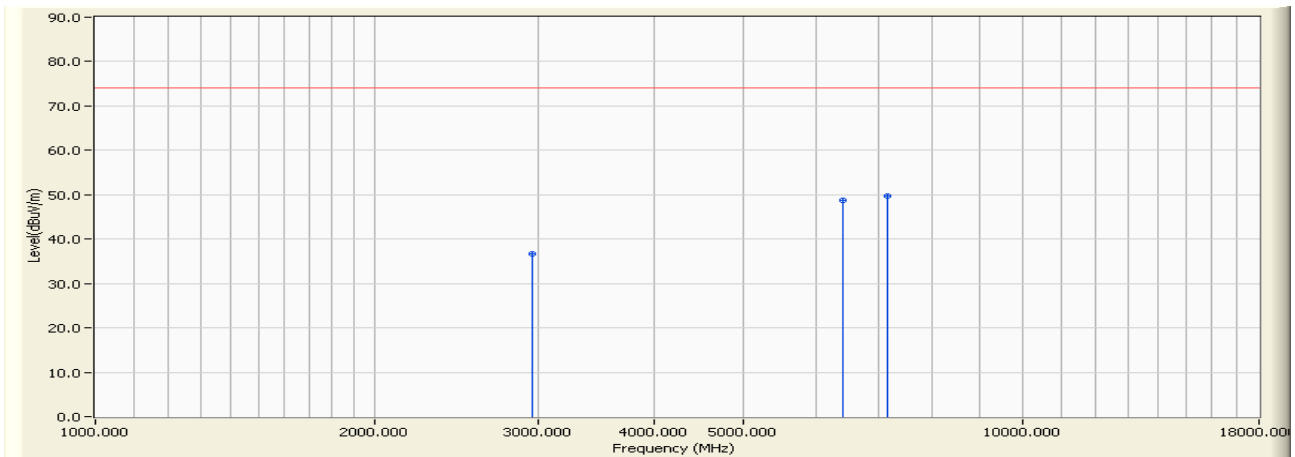


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	97.750	-10.801	42.700	31.900	-11.620	43.520	QUASIPeAK	100.000	88.900
2	* 250.000	-8.178	43.200	35.022	-10.998	46.020	QUASIPeAK	100.000	226.000
3	401.250	-3.511	32.800	29.289	-16.731	46.020	QUASIPeAK	112.600	65.900
4	533.750	-0.844	32.600	31.756	-14.264	46.020	QUASIPeAK	106.000	147.500
5	666.850	0.401	30.900	31.301	-14.719	46.020	QUASIPeAK	100.000	145.300
6	750.000	1.613	29.500	31.113	-14.907	46.020	QUASIPeAK	100.000	36.500

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 14:22
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz

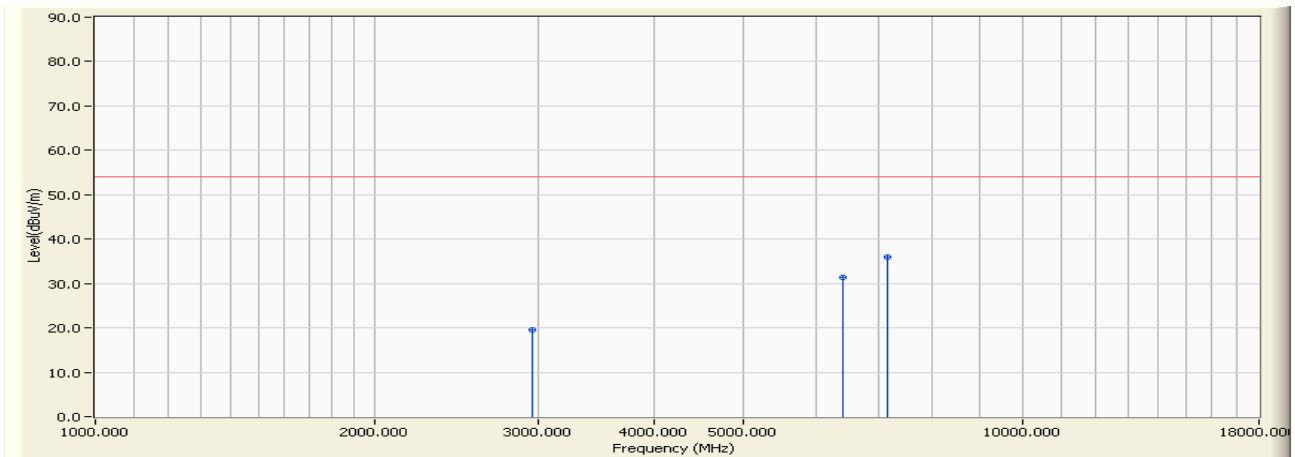


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	2955.000	-3.700	40.352	36.652	-37.318	73.970	PEAK	136.800	102.500
2	6397.500	10.670	38.078	48.748	-25.222	73.970	PEAK	112.600	63.700
3	* 7162.500	12.375	37.357	49.732	-24.238	73.970	PEAK	100.000	118.900

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 14:22
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz

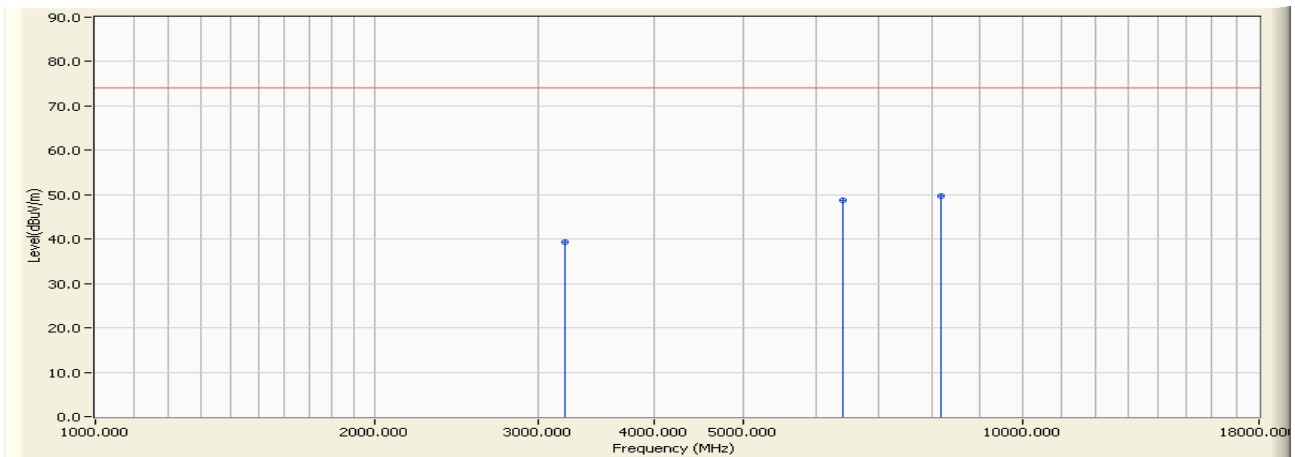


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	2955.000	-3.700	23.200	19.500	-34.470	53.970	AVERAGE	136.800	102.500
2	6397.500	10.670	20.800	31.470	-22.500	53.970	AVERAGE	112.600	63.700
3	* 7162.500	12.375	23.600	35.975	-17.995	53.970	AVERAGE	100.000	118.900

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 14:23
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz

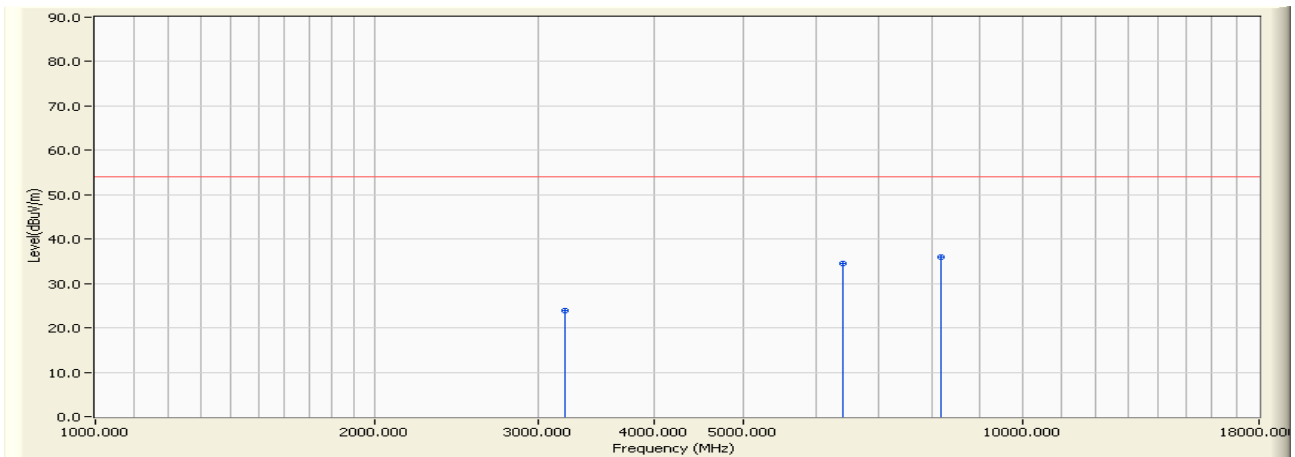


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3210.000	-3.090	42.516	39.426	-34.544	73.970	PEAK	100.000	152.600
2	6397.500	10.670	38.101	48.771	-25.199	73.970	PEAK	102.600	253.900
3	* 8182.500	13.265	36.389	49.654	-24.316	73.970	PEAK	107.200	94.800

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 14:23
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz

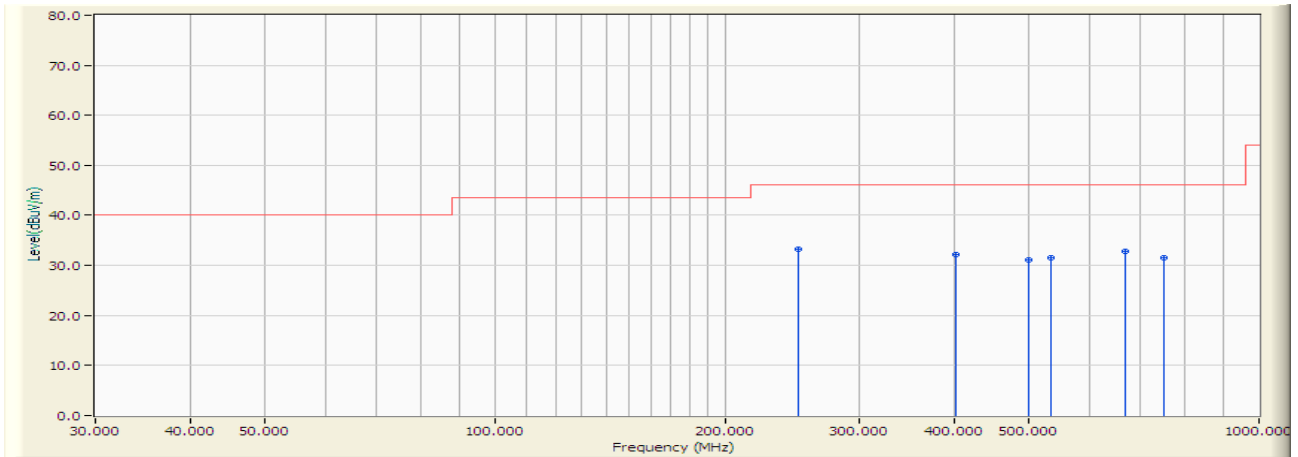


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3210.000	-3.090	26.900	23.810	-30.160	53.970	AVERAGE	100.000	152.600
2	6397.500	10.670	23.800	34.470	-19.500	53.970	AVERAGE	102.600	253.900
3	* 8182.500	13.265	22.800	36.065	-17.905	53.970	AVERAGE	107.200	94.800

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/28 - 15:53
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : CBL6112B_2932(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz

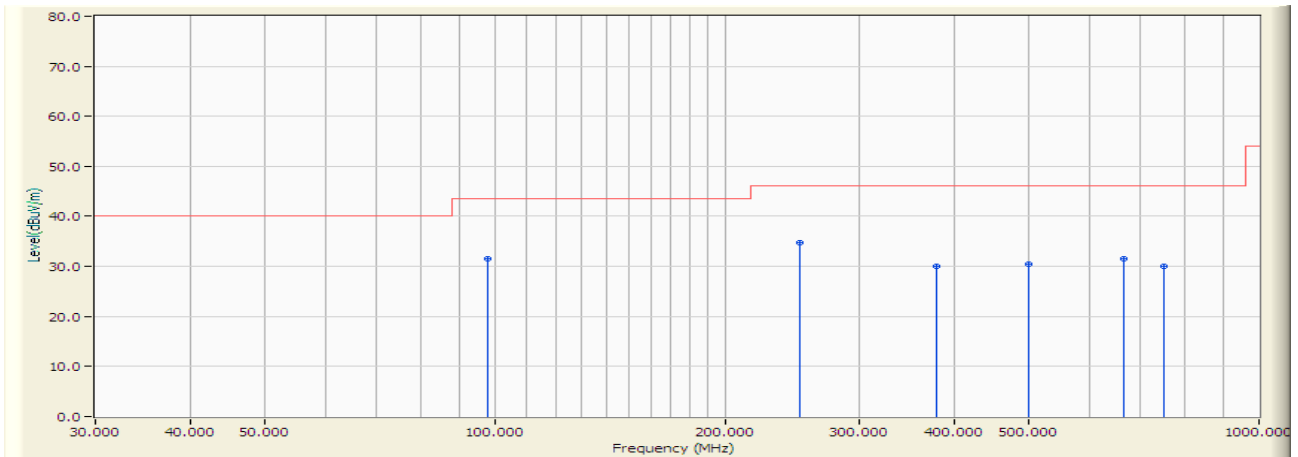


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	250.000	-8.178	41.400	33.222	-12.798	46.020	QUASPEAK	105.000	142.600
2		401.250	-3.511	35.700	32.189	-13.831	46.020	QUASPEAK	122.600	99.800
3		500.000	-1.802	32.900	31.098	-14.922	46.020	QUASPEAK	100.000	205.000
4		533.375	-0.866	32.500	31.635	-14.385	46.020	QUASPEAK	136.000	147.000
5		666.850	0.401	32.400	32.801	-13.219	46.020	QUASPEAK	142.500	98.500
6		750.750	1.632	30.000	31.633	-14.387	46.020	QUASPEAK	106.000	344.000

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/28 - 15:53
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : CBL6112B_2932(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz



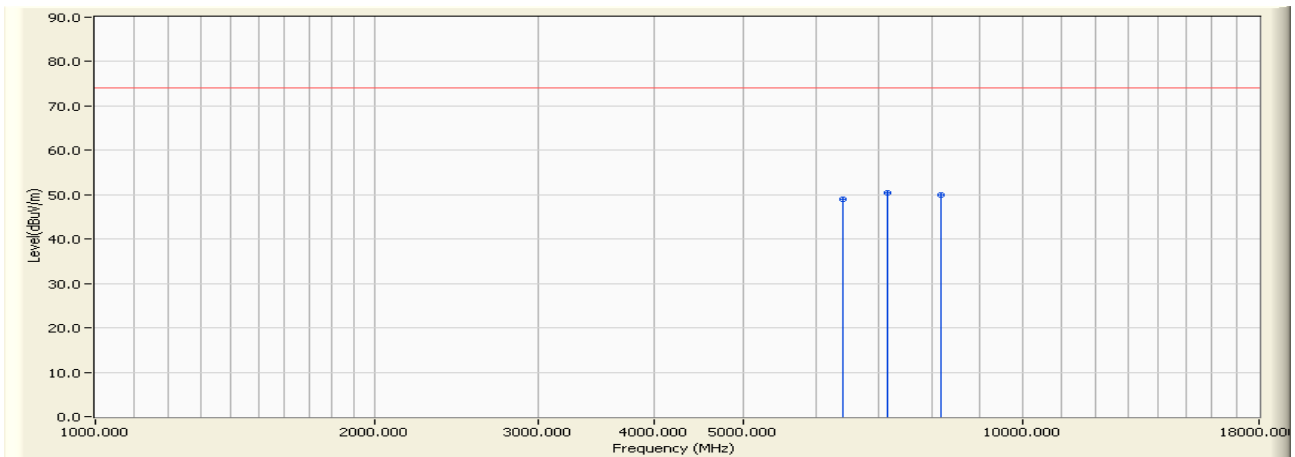
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	97.750	-10.801	42.300	31.500	-12.020	43.520	QUASIPeAK	100.000	63.900
2	* 250.125	-8.161	42.800	34.640	-11.380	46.020	QUASIPeAK	100.000	76.900
3	378.850	-4.456	34.400	29.944	-16.076	46.020	QUASIPeAK	105.500	255.700
4	500.000	-1.802	32.200	30.398	-15.622	46.020	QUASIPeAK	108.000	169.500
5	666.750	0.394	31.200	31.593	-14.427	46.020	QUASIPeAK	100.000	94.000
6	750.250	1.620	28.500	30.120	-15.900	46.020	QUASIPeAK	100.000	178.500

**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



Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 14:23
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz

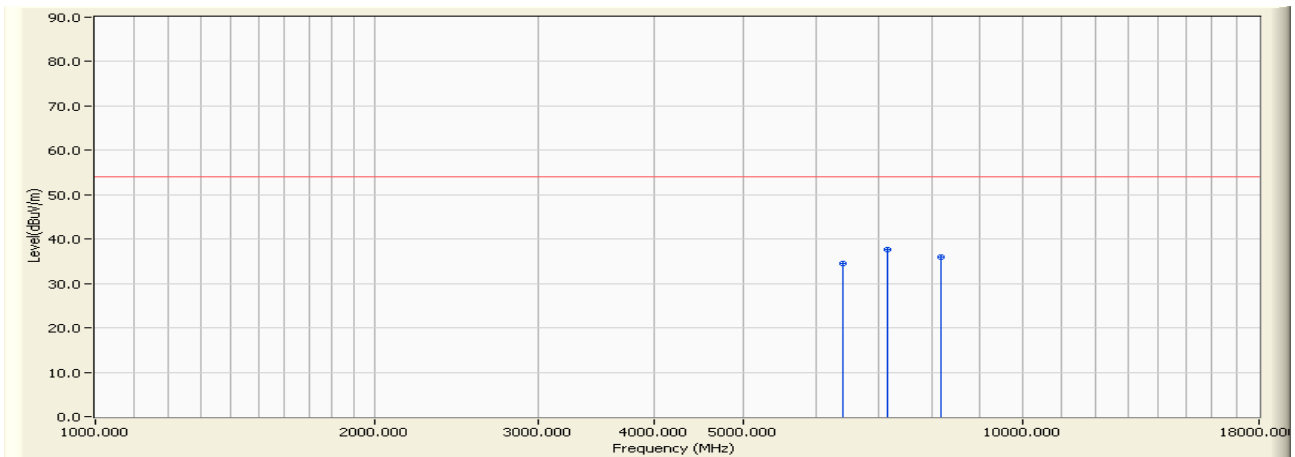


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	6397.500	10.670	38.333	49.003	-24.967	73.970	PEAK	105.600	74.600
2	* 7162.500	12.375	37.951	50.326	-23.644	73.970	PEAK	110.600	175.500
3	8182.500	13.265	36.575	49.840	-24.130	73.970	PEAK	132.600	65.000

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 14:23
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz

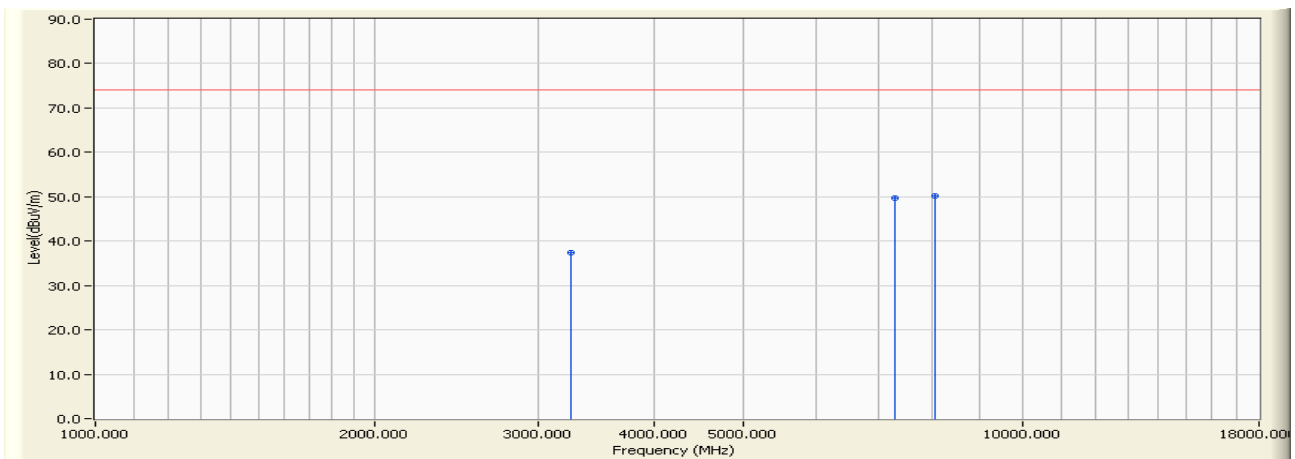


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	6397.500	10.670	23.800	34.470	-19.500	53.970	AVERAGE	105.600	74.600
2	* 7162.500	12.375	25.300	37.675	-16.295	53.970	AVERAGE	110.600	175.500
3	8182.500	13.265	22.800	36.065	-17.905	53.970	AVERAGE	132.600	65.000

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 14:23
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz

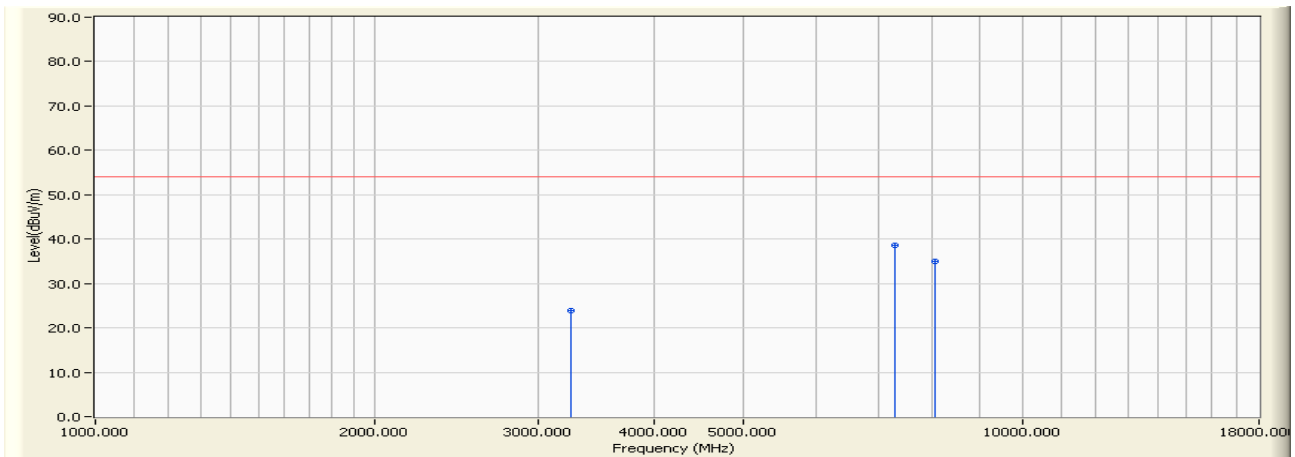


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3252.500	-3.680	41.111	37.431	-36.539	73.970	PEAK	100.000	56.900
2	7290.000	12.180	37.621	49.801	-24.169	73.970	PEAK	142.600	113.600
3	* 8055.000	12.580	37.525	50.105	-23.865	73.970	PEAK	104.600	73.900

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 14:23
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz

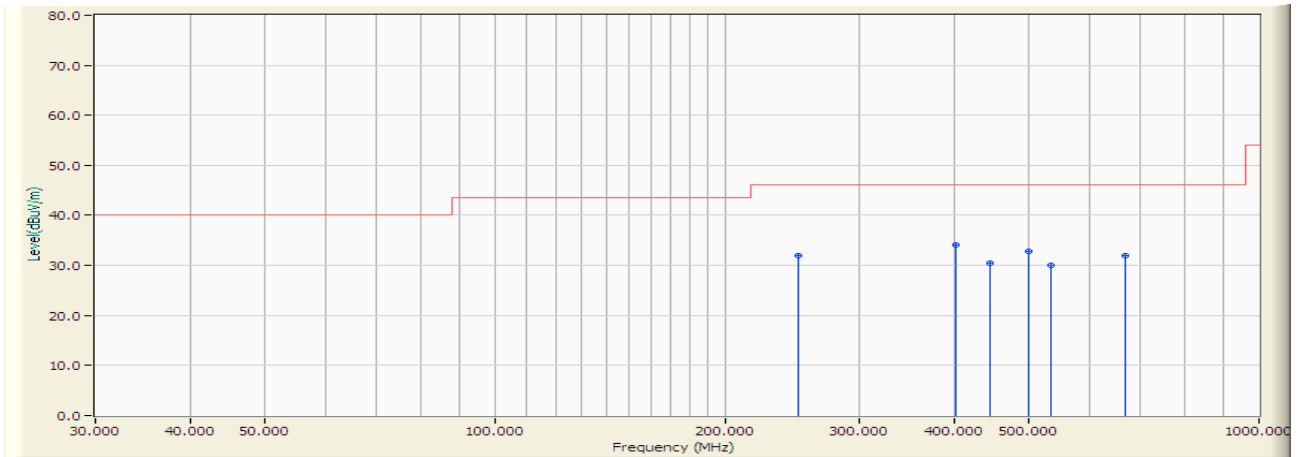


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	3252.500	-3.680	27.600	23.920	-30.050	53.970	AVERAGE	100.000	56.900
2	* 7290.000	12.180	26.400	38.580	-15.390	53.970	AVERAGE	142.600	113.600
3	8055.000	12.580	22.500	35.080	-18.890	53.970	AVERAGE	104.600	73.900

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/28 - 15:53
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : CBL6112B_2932(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz

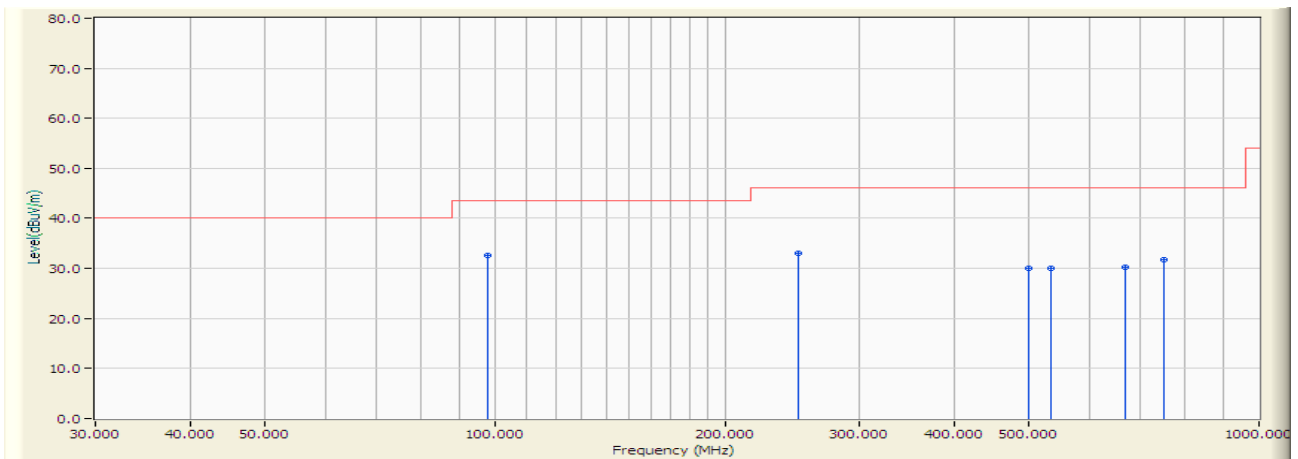


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	250.000	-8.178	40.100	31.922	-14.098	46.020	QUASIPeAK	100.000	215.600
2	* 401.250	-3.511	37.600	34.089	-11.931	46.020	QUASIPeAK	142.600	98.500
3	444.750	-2.931	33.300	30.368	-15.652	46.020	QUASIPeAK	125.500	158.400
4	500.000	-1.802	34.600	32.798	-13.222	46.020	QUASIPeAK	100.000	206.000
5	533.750	-0.844	30.900	30.056	-15.964	46.020	QUASIPeAK	140.500	99.700
6	666.850	0.401	31.500	31.901	-14.119	46.020	QUASIPeAK	100.000	196.400

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/03/28 - 15:53
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : CBL6112B_2932(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz

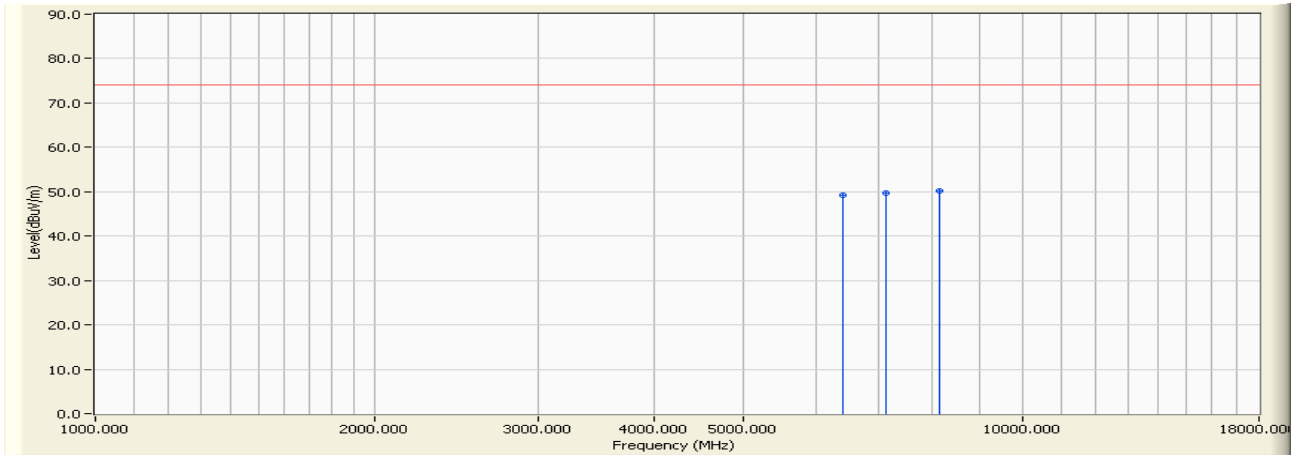


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	97.850	-10.782	43.400	32.619	-10.901	43.520	QUASIPeAK	100.000	243.500
2		250.000	-8.178	41.300	33.122	-12.898	46.020	QUASIPeAK	106.500	74.900
3		500.000	-1.802	31.900	30.098	-15.922	46.020	QUASIPeAK	100.000	182.500
4		533.745	-0.844	30.900	30.056	-15.964	46.020	QUASIPeAK	100.000	43.600
5		666.785	0.396	29.900	30.296	-15.724	46.020	QUASIPeAK	140.600	258.400
6		750.250	1.620	30.200	31.820	-14.200	46.020	QUASIPeAK	100.000	198.500

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 14:23
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz

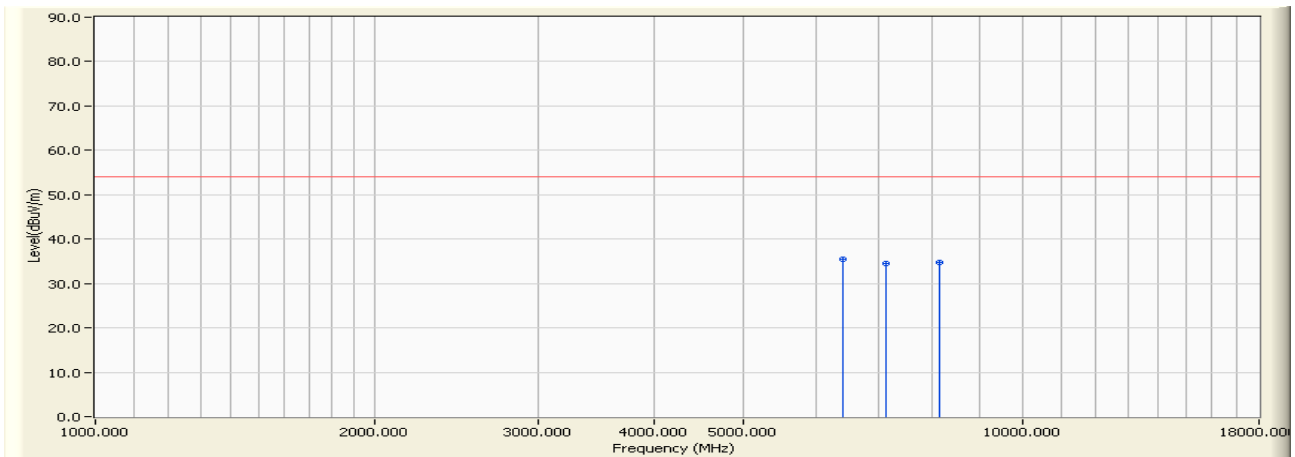


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	6397.500	10.670	38.474	49.144	-24.826	73.970	PEAK	105.300	93.600
2	7120.000	11.550	38.190	49.740	-24.230	73.970	PEAK	102.600	193.800
3	* 8140.000	13.110	37.176	50.286	-23.684	73.970	PEAK	100.000	85.600

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 14:23
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz



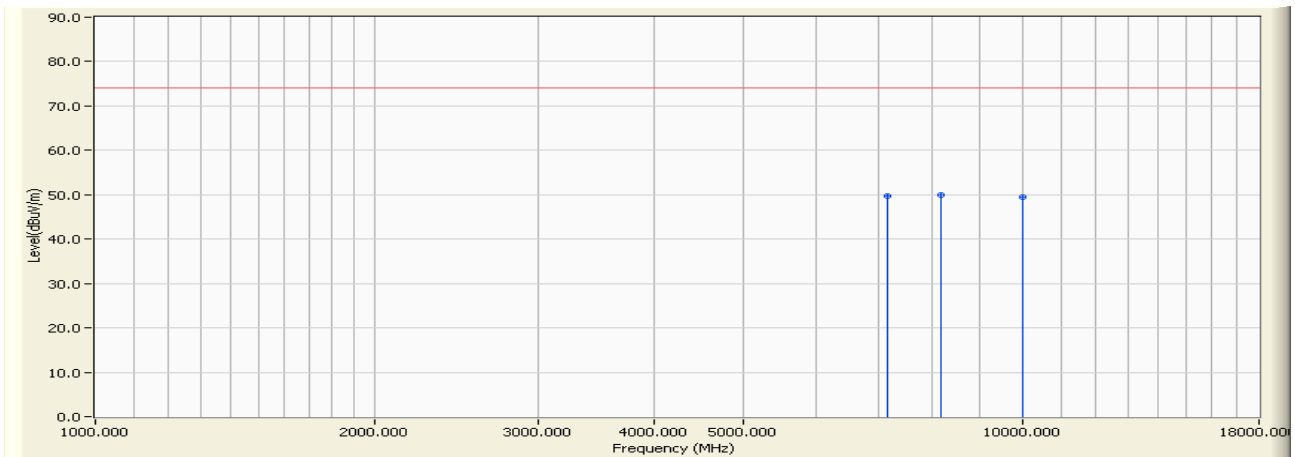
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	6397.500	10.670	24.700	35.370	-18.600	53.970	AVERAGE	105.300	93.600
2		7120.000	11.550	22.900	34.450	-19.520	53.970	AVERAGE	102.600	193.800
3		8140.000	13.110	21.600	34.710	-19.260	53.970	AVERAGE	100.000	85.600

**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



Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 14:23
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz

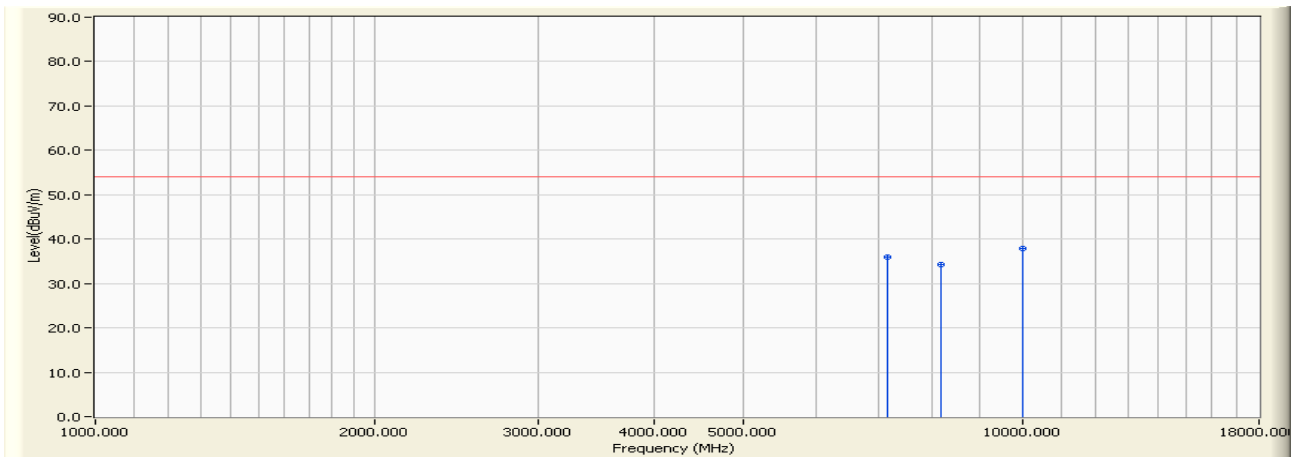


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	7162.500	12.375	37.346	49.721	-24.249	73.970	PEAK	100.000	196.800
2	* 8182.500	13.265	36.797	50.062	-23.908	73.970	PEAK	102.600	74.800
3	10010.000	14.300	35.162	49.462	-24.508	73.970	PEAK	106.500	64.800

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 14:23
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 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	7162.500	12.375	23.600	35.975	-17.995	53.970	AVERAGE	100.000	196.800
2	8182.500	13.265	20.900	34.165	-19.805	53.970	AVERAGE	102.600	74.800
3	* 10010.000	14.300	23.500	37.800	-16.170	53.970	AVERAGE	106.500	64.800

**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

## 5. RF Antenna Conducted Spurious

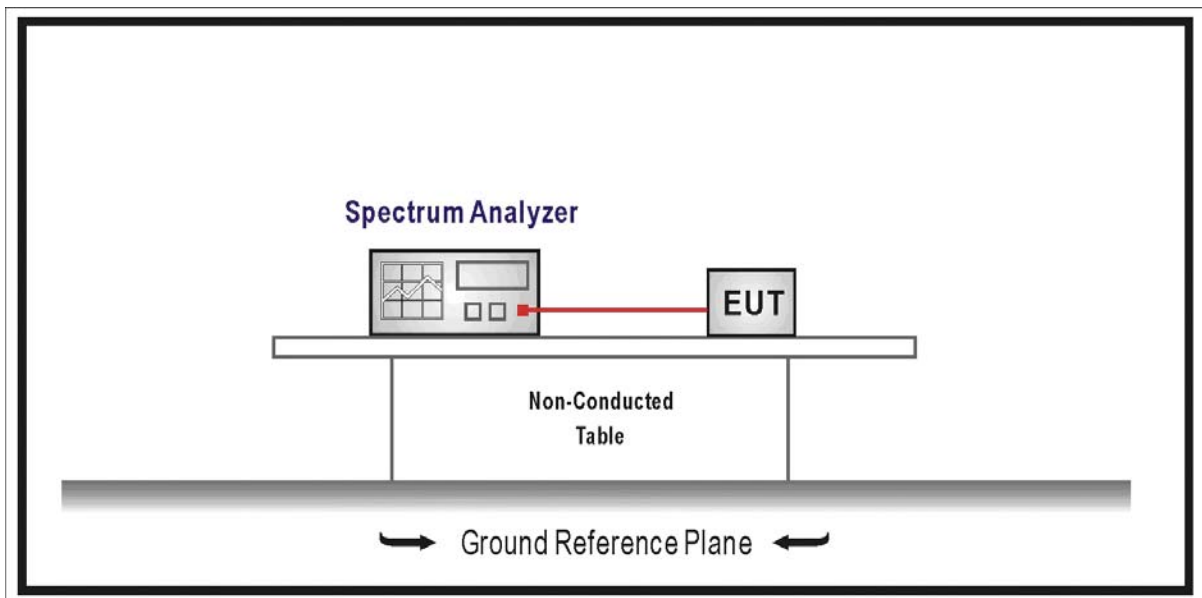
### 5.1. Test Equipment

RF Antenna Conducted Spurious / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2007/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2007/11/30

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 5.2. Test Setup



### 5.3. Limit

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.

#### **5.4. Test Procedure**

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

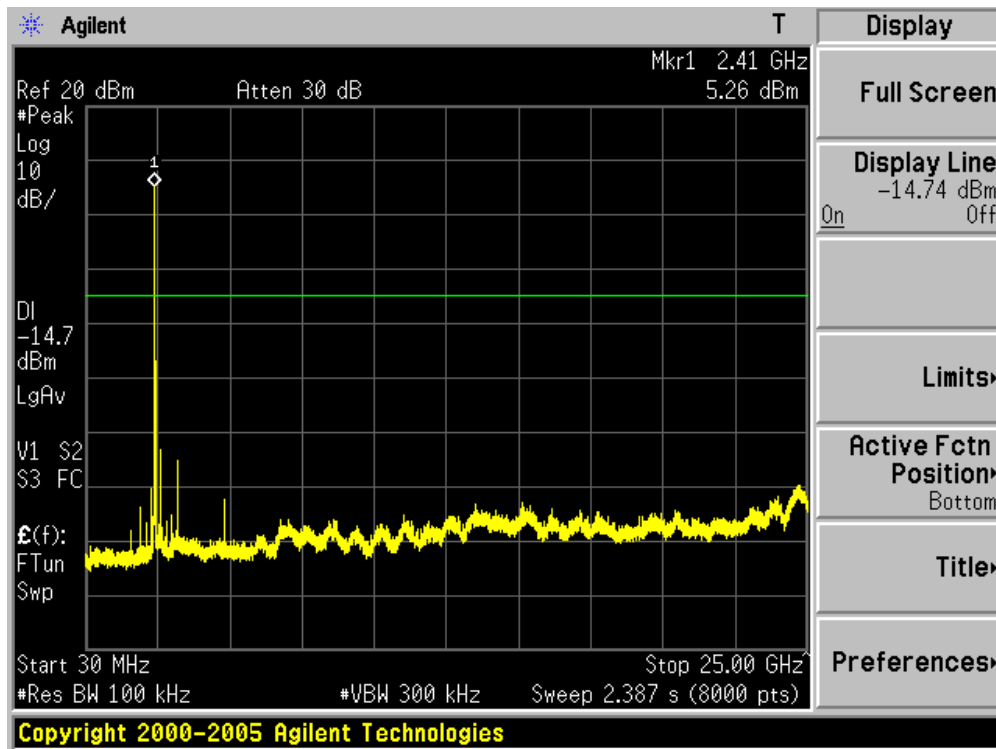
#### **5.5. Uncertainty**

The measurement uncertainty is defined as  $\pm 1.27$  dB

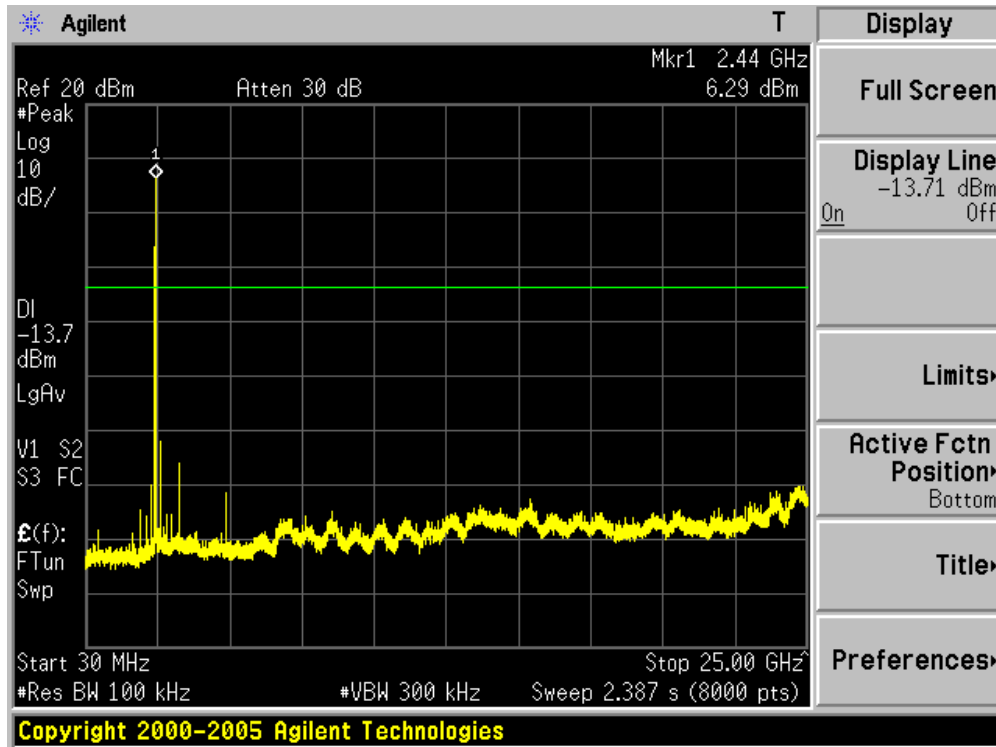
5.6. Test Result

Product	:	802.11g Wireless ADSL2+ Router
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b

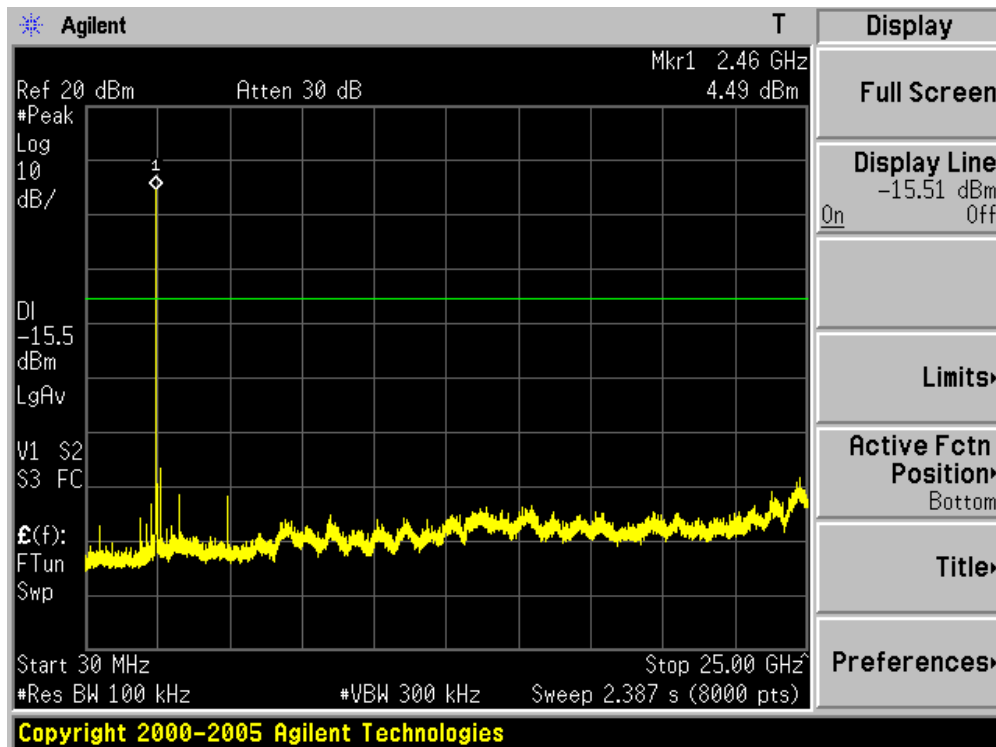
Channel 01 (2412MHz)



Channel 06 (2437MHz)

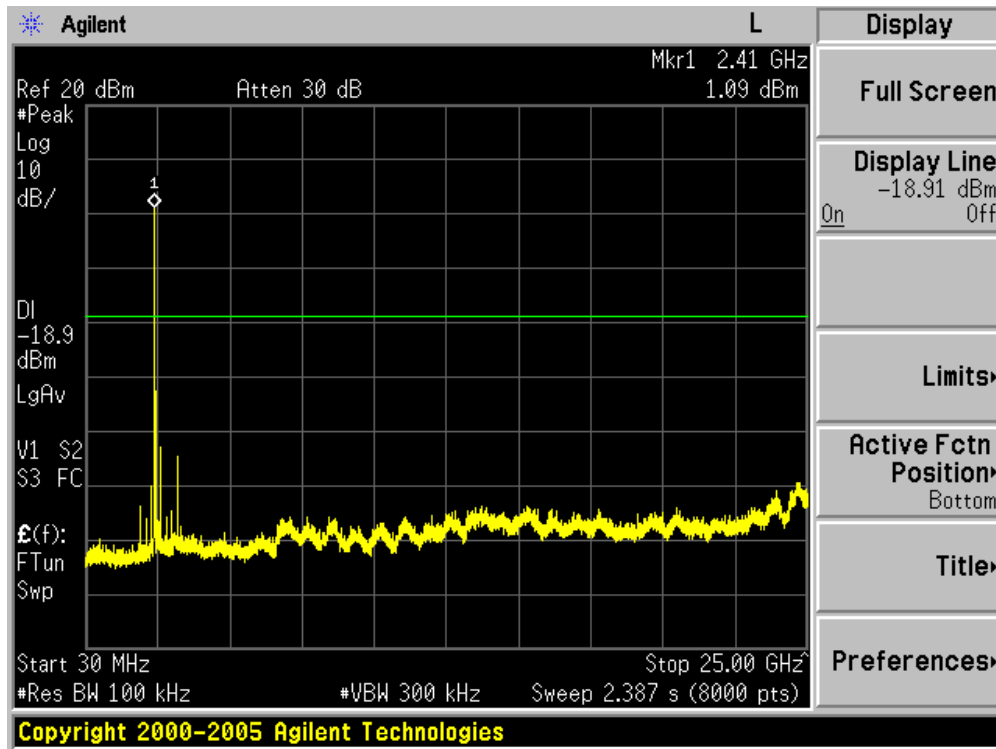


Channel 11 (2462MHz)

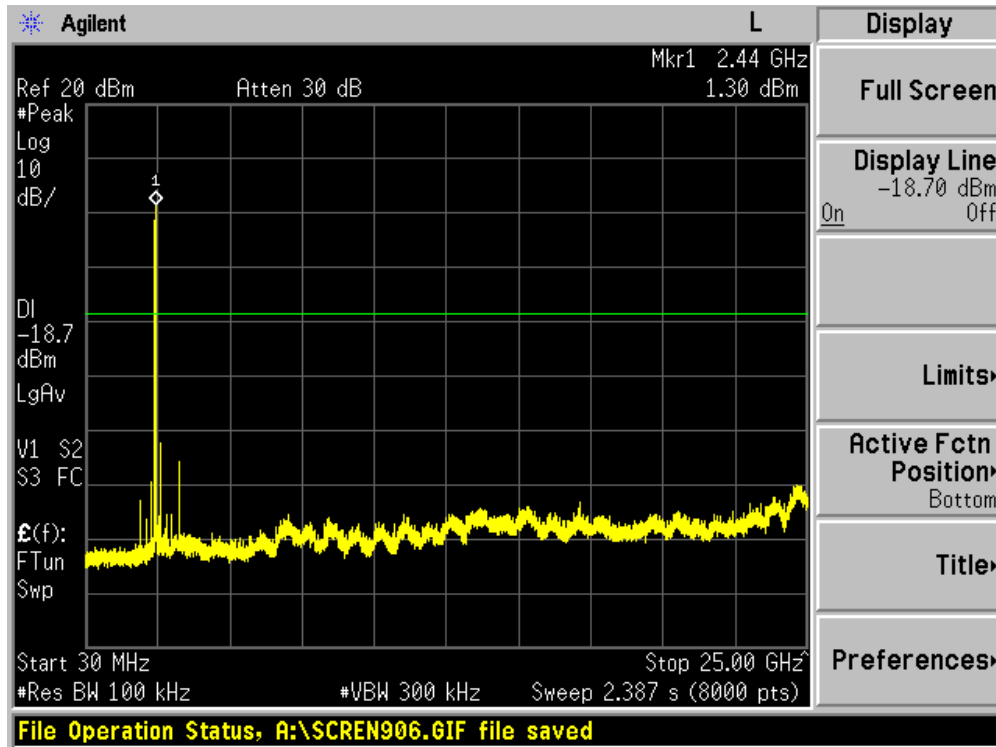


Product	:	802.11g Wireless ADSL2+ Router
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g

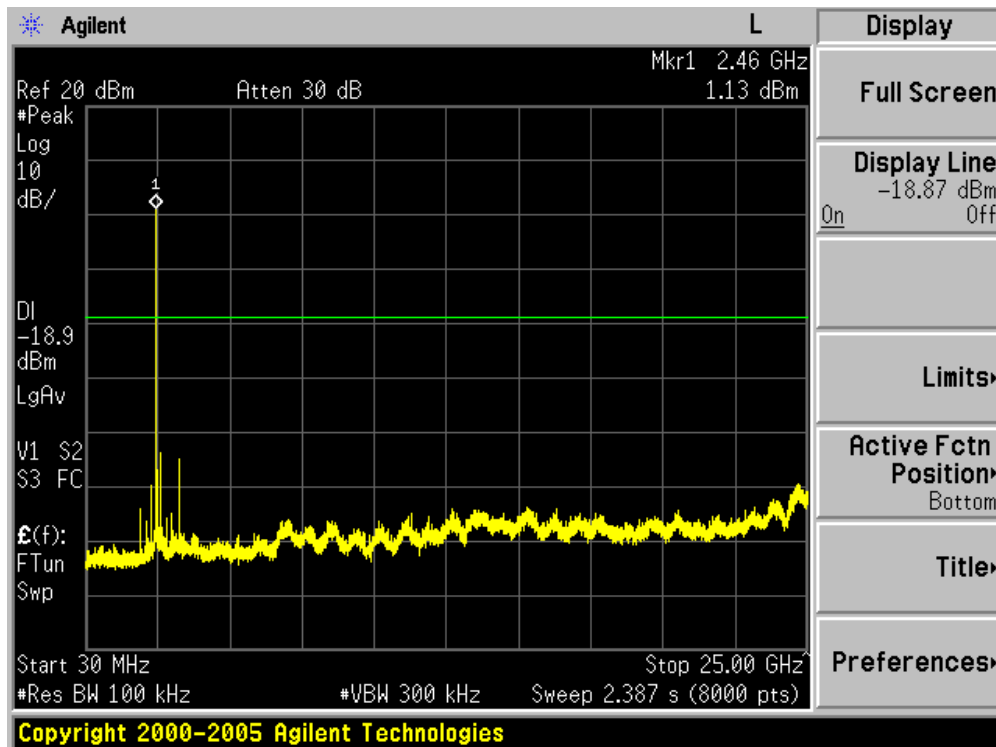
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)





## 6. Radiated Emission Band Edge

### 6.1. Test Equipment

Radiated Emission Band Edge / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4408B	MY45102679	2007/11/12
Preamplifier	Quietek	AP-180C	CHM-0602012	2007/11/25
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2007/11/25
Coaxial Cable	Huber+Suhner	AC2-C	04	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH002	2008/03/31

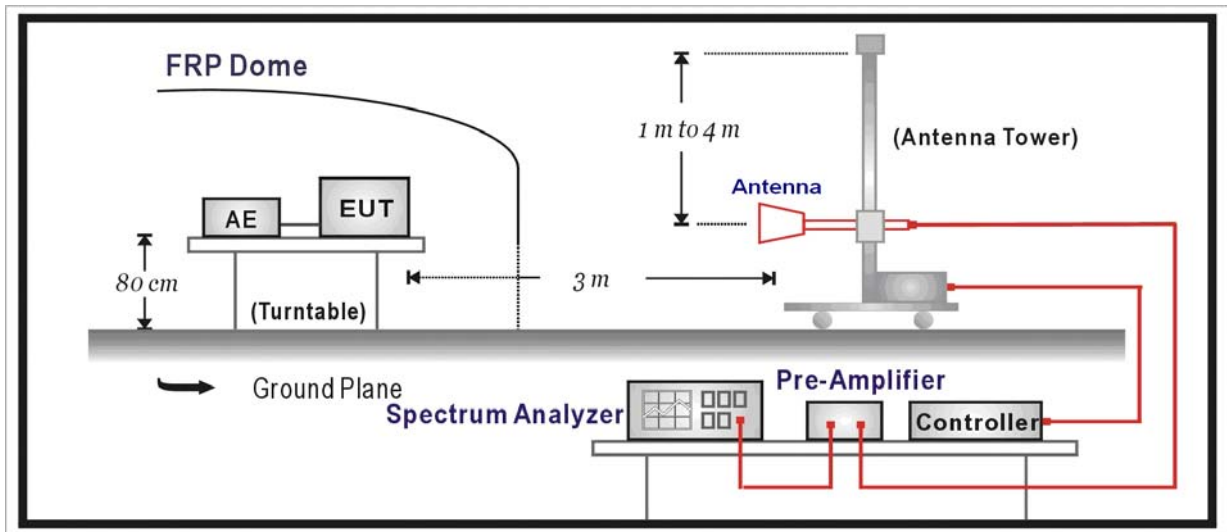
Radiated Emission Band Edge / AC-3

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4408B	MY45102679	2007/11/12
Preamplifier	Quietek	AP-180C	CHM-0602012	2007/11/25
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2007/11/25
Coaxial Cable	Huber+Suhner	AC2-C	05	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH003	2008/03/31

Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

Note 2: The test instruments marked with "X" are used to measure the final test results.

**6.2. Test Setup**



**6.3. Limit**

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

**6.4. Test Procedure**

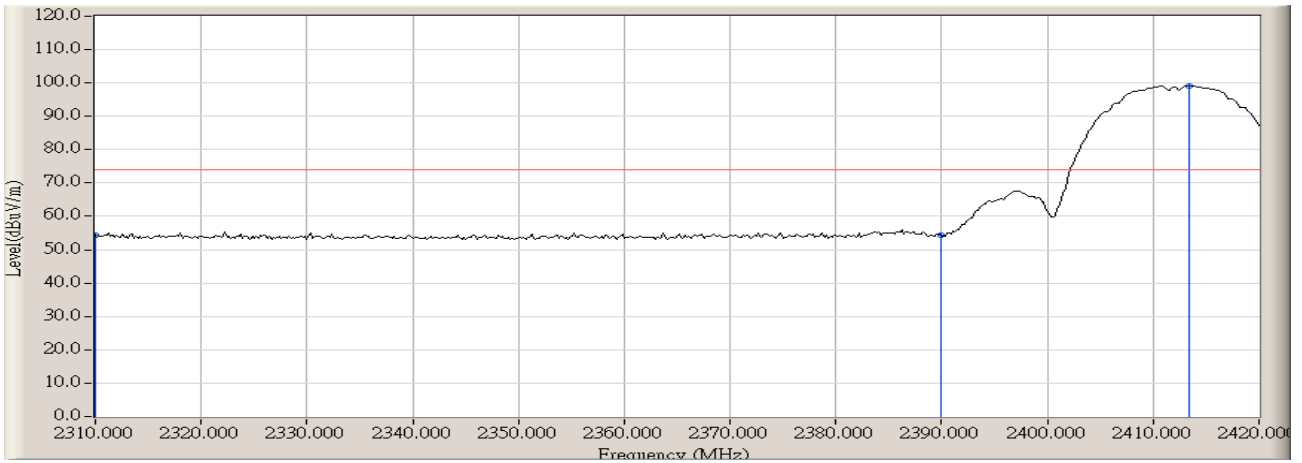
The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2003 on radiated measurement.

**6.5. Uncertainty**

The measurement uncertainty above 1G is defined as  $\pm 3.9$  dB

6.6. Test Result

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 11:39
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	-3.262	57.592	54.331	-19.639	73.970	PEAK
2		2390.000	-3.202	57.427	54.225	-19.745	73.970	PEAK
3	*	2413.400	-3.215	102.371	99.155	N/A	N/A	PEAK

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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 11:41
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

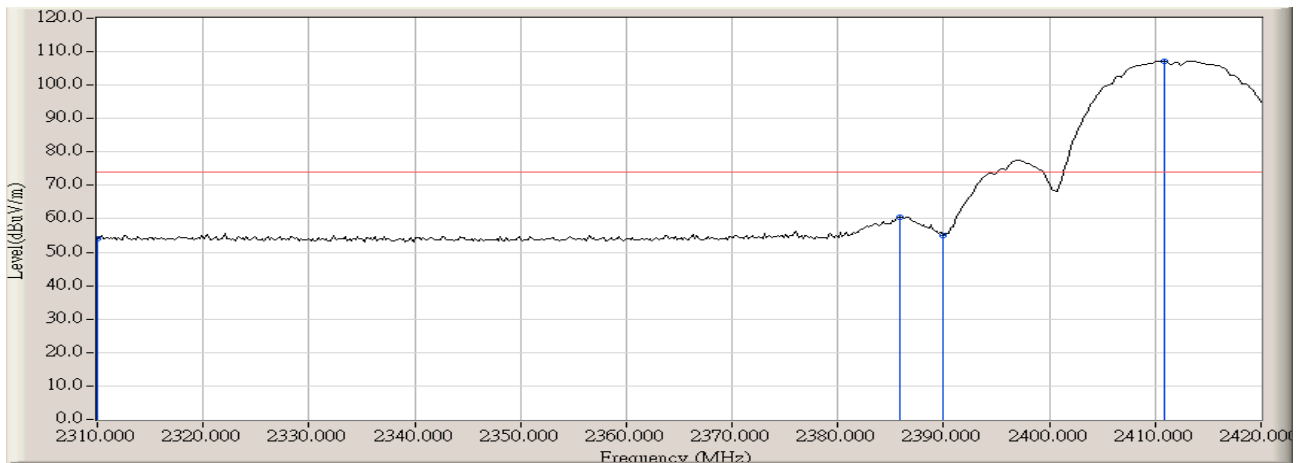


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-3.262	44.070	40.809	-13.161	53.970	AVERAGE
2	2386.267	-3.212	47.459	44.246	-9.724	53.970	AVERAGE
3	2390.000	-3.202	44.436	41.234	-12.736	53.970	AVERAGE
4	* 2411.200	-3.211	98.825	95.615	N/A	N/A	AVERAGE

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 11:43
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

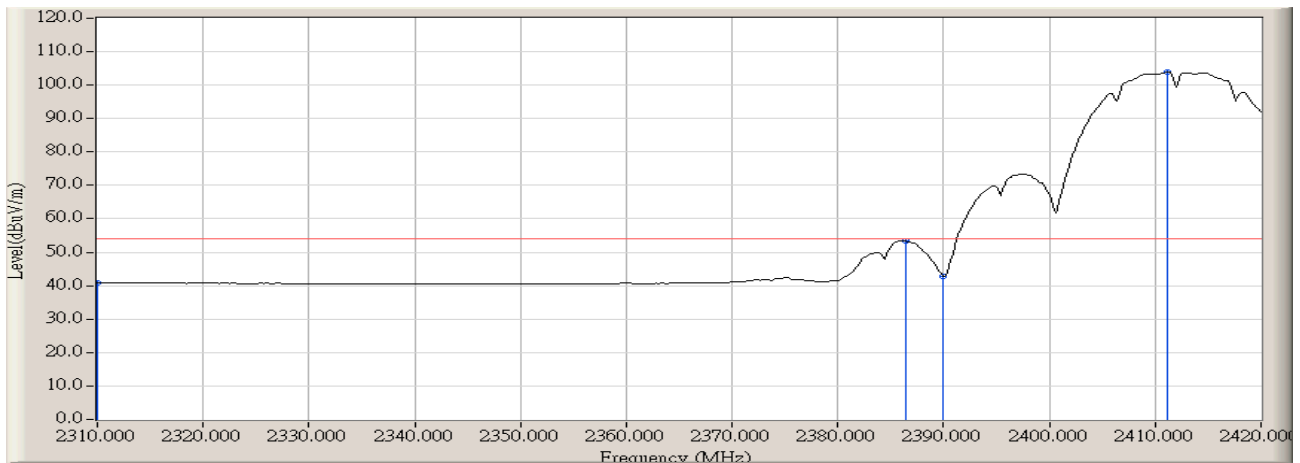


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-3.262	57.442	54.181	-19.789	73.970	PEAK
2	2385.900	-3.215	63.758	60.544	-13.426	73.970	PEAK
3	2390.000	-3.202	58.315	55.113	-18.857	73.970	PEAK
4	* 2410.833	-3.210	110.355	107.145	N/A	N/A	PEAK

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 11:45
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

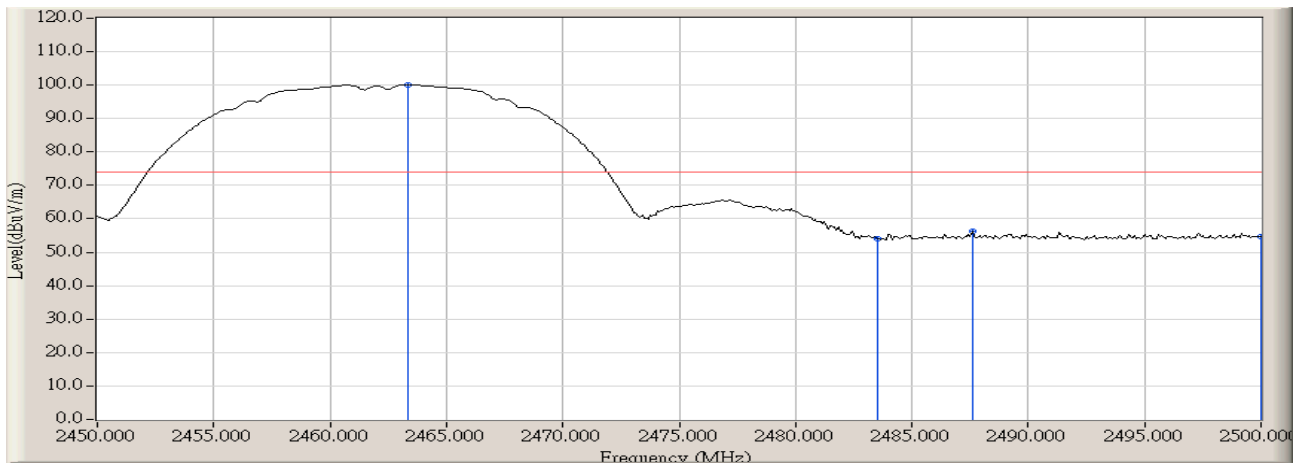


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-3.262	44.105	40.844	-13.126	53.970	AVERAGE
2	2386.450	-3.213	56.609	53.397	-0.573	53.970	AVERAGE
3	2390.000	-3.202	46.096	42.894	-11.076	53.970	AVERAGE
4	* 2411.200	-3.211	107.075	103.865	N/A	N/A	AVERAGE

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 11:29
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz

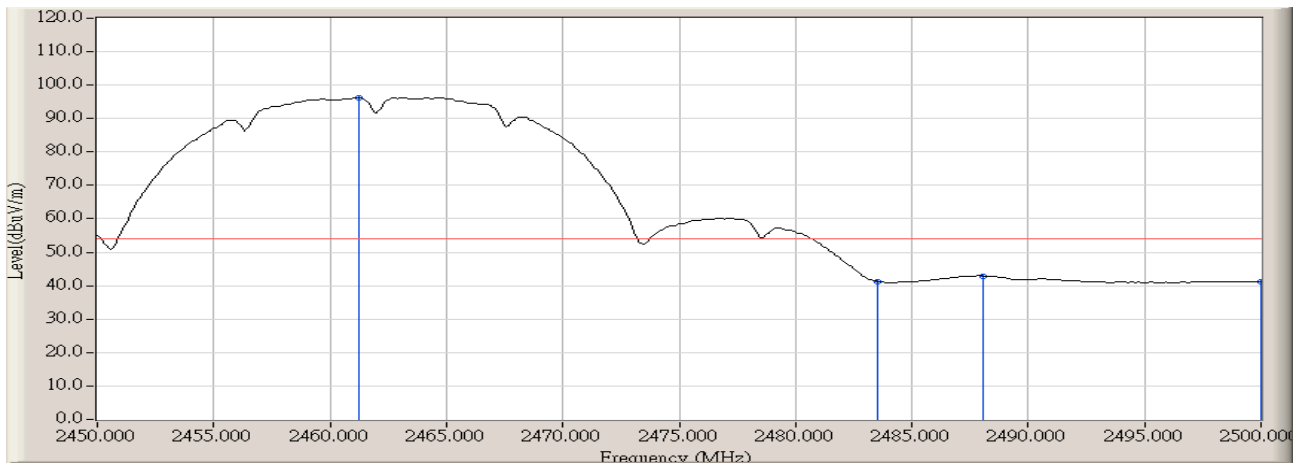


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.333	-3.255	103.331	100.076	N/A	N/A	PEAK
2		2483.500	-3.177	57.181	54.004	-19.966	73.970	PEAK
3		2487.583	-3.165	59.468	56.303	-17.667	73.970	PEAK
4		2500.000	-3.135	57.866	54.731	-19.239	73.970	PEAK

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 11:30
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz



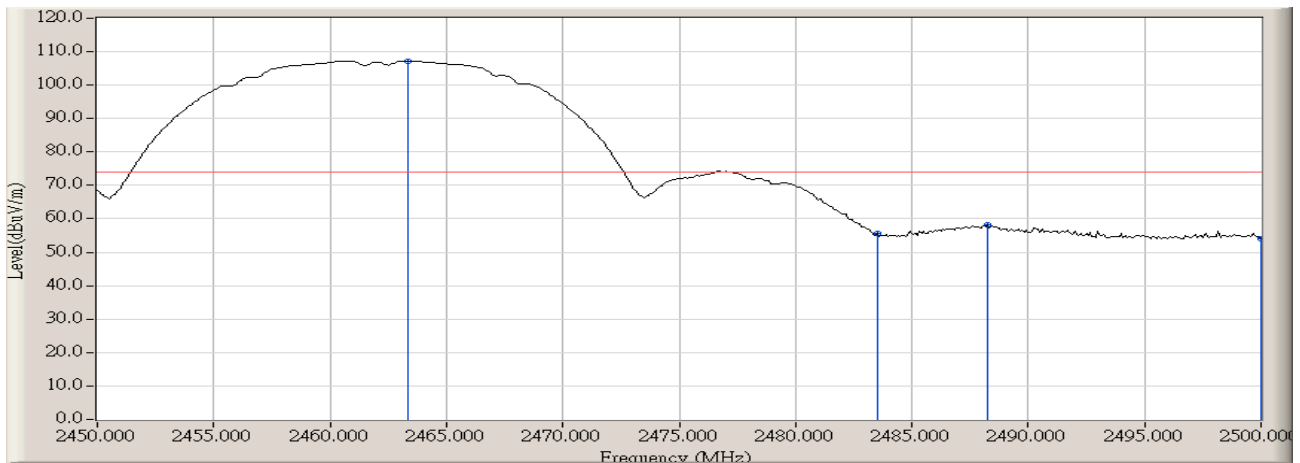
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.250	-3.261	99.514	96.252	N/A	N/A	AVERAGE
2		2483.500	-3.177	44.421	41.244	-12.726	53.970	AVERAGE
3		2488.083	-3.163	46.076	42.913	-11.057	53.970	AVERAGE
4		2500.000	-3.135	44.346	41.211	-12.759	53.970	AVERAGE

**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



Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 11:34
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz

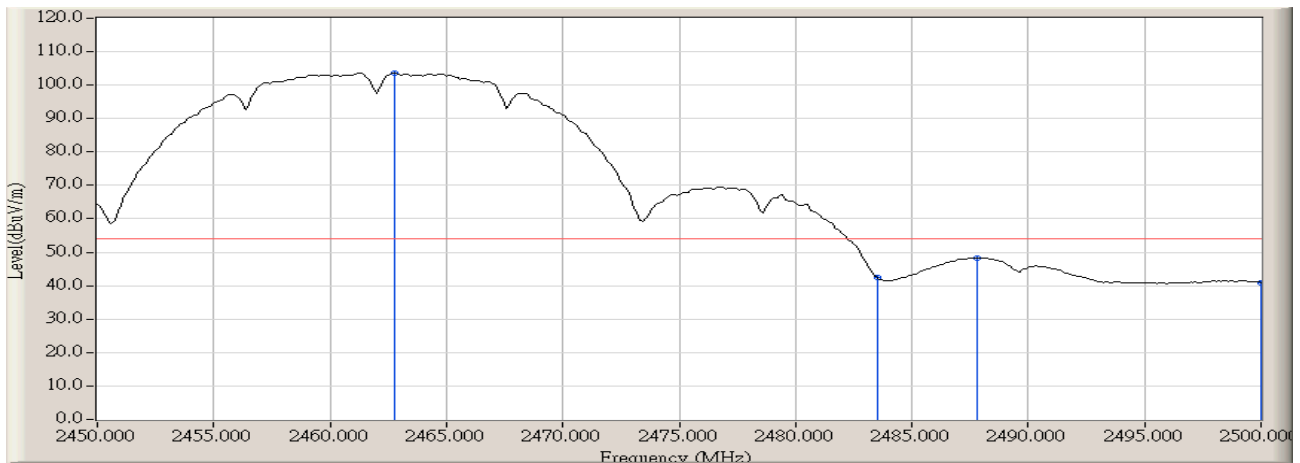


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.333	-3.255	110.465	107.210	N/A	N/A	PEAK
2		2483.500	-3.177	58.905	55.728	-18.242	73.970	PEAK
3		2488.250	-3.162	61.294	58.131	-15.839	73.970	PEAK
4		2500.000	-3.135	57.265	54.130	-19.840	73.970	PEAK

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 11:36
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz

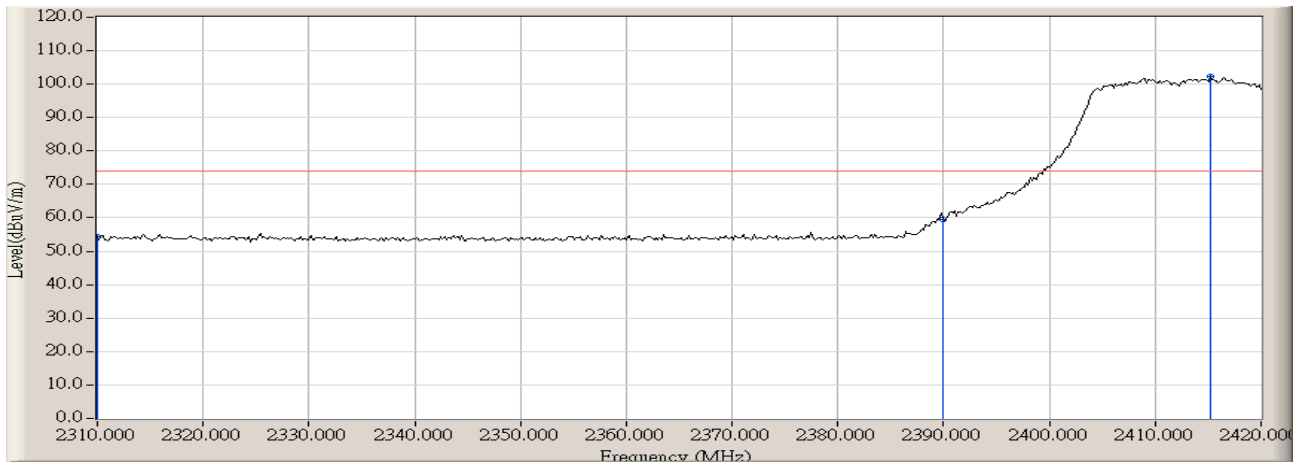


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2462.750	-3.257	106.841	103.584	N/A	N/A	AVERAGE
2		2483.500	-3.177	45.545	42.368	-11.602	53.970	AVERAGE
3		2487.833	-3.164	51.576	48.412	-5.558	53.970	AVERAGE
4		2500.000	-3.135	44.137	41.002	-12.968	53.970	AVERAGE

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 11:08
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	-3.262	57.495	54.234	-19.736	73.970	PEAK
2		2390.000	-3.202	62.849	59.647	-14.323	73.970	PEAK
3	*	2415.233	-3.219	105.415	102.195	N/A	N/A	PEAK

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 11:11
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz

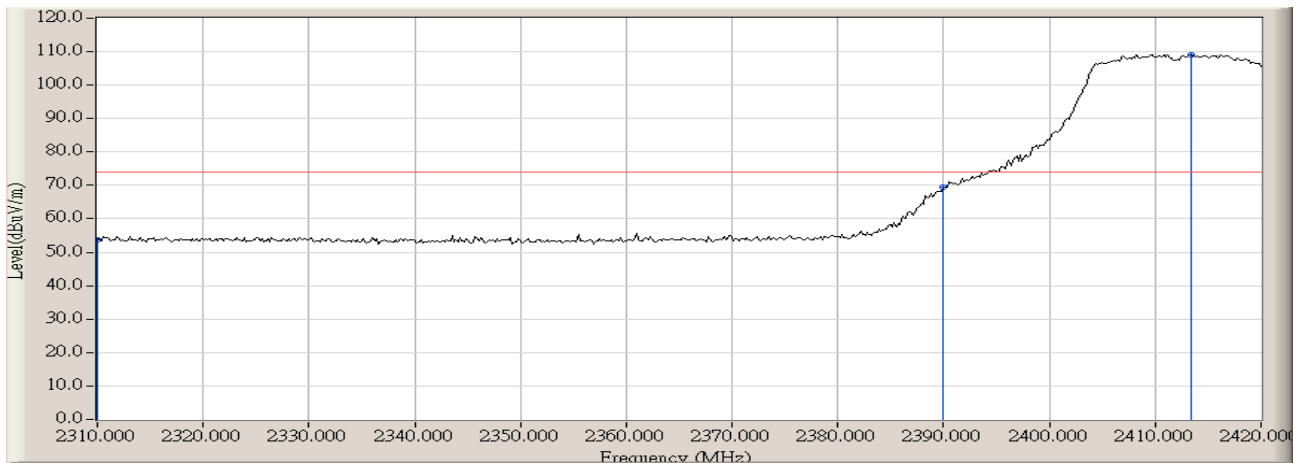


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-3.262	44.073	40.812	-13.158	53.970	AVERAGE
2	2390.000	-3.202	49.214	46.012	-7.958	53.970	AVERAGE
3	* 2414.317	-3.218	93.364	90.146	N/A	N/A	AVERAGE

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 11:07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz

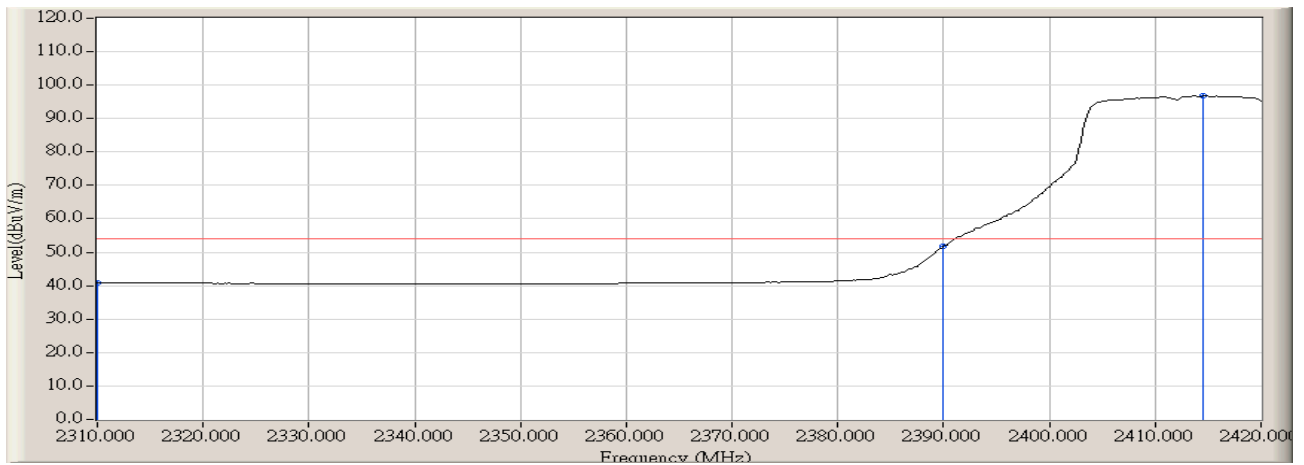


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-3.262	56.904	53.643	-20.327	73.970	PEAK
2	2390.000	-3.202	72.542	69.340	-4.630	73.970	PEAK
3	* 2413.400	-3.215	112.436	109.220	N/A	N/A	PEAK

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 11:05
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz

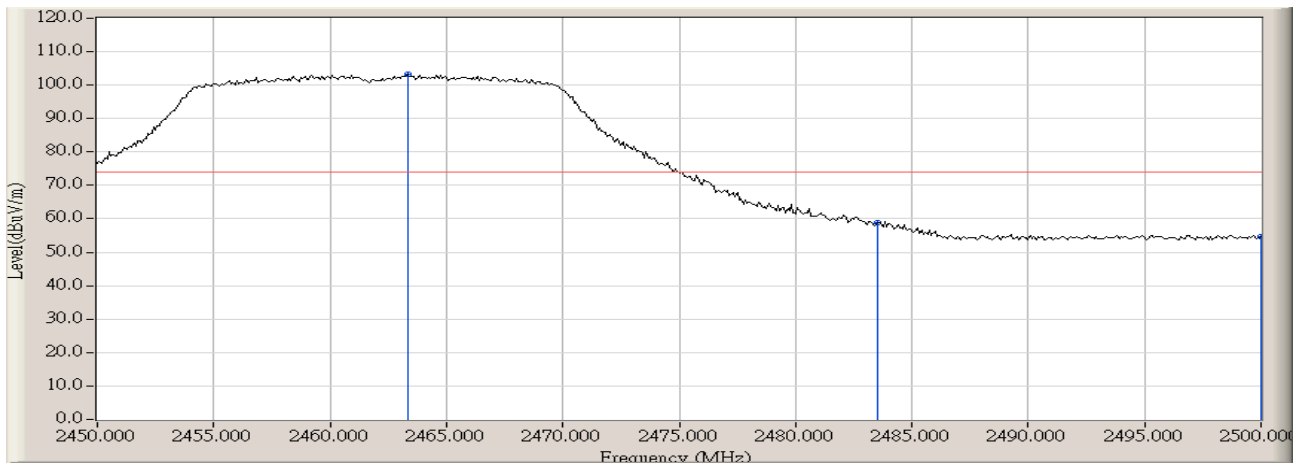


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	-3.262	44.072	40.811	-13.159	53.970	AVERAGE
2	2390.000	-3.202	54.958	51.756	-2.214	53.970	AVERAGE
3	* 2414.500	-3.218	99.934	96.716	N/A	N/A	AVERAGE

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 11:15
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz

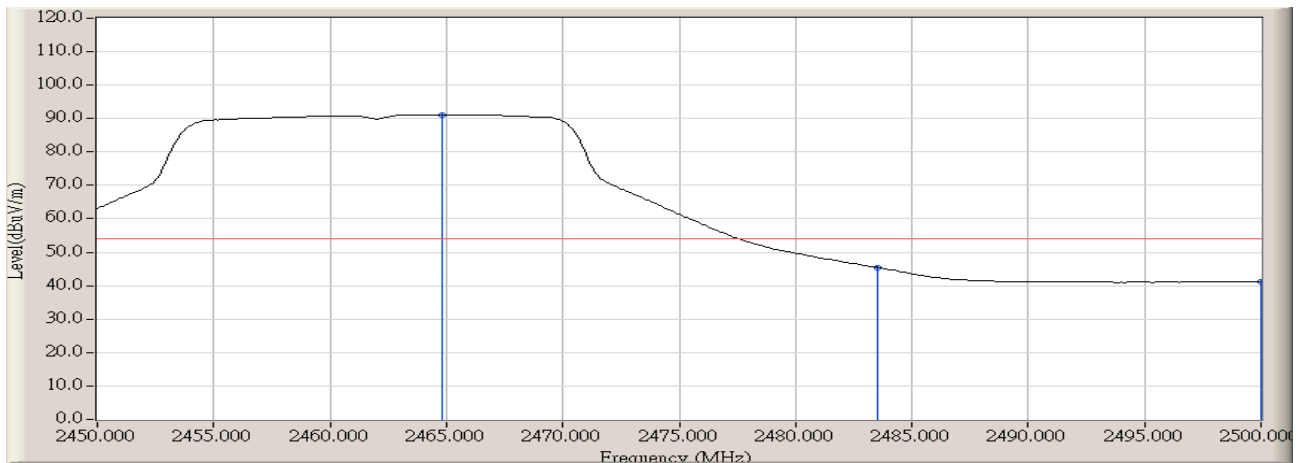


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.333	-3.255	106.625	103.370	N/A	N/A	PEAK
2		2483.500	-3.177	62.205	59.028	-14.942	73.970	PEAK
3		2500.000	-3.135	57.812	54.677	-19.293	73.970	PEAK

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 11:18
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz



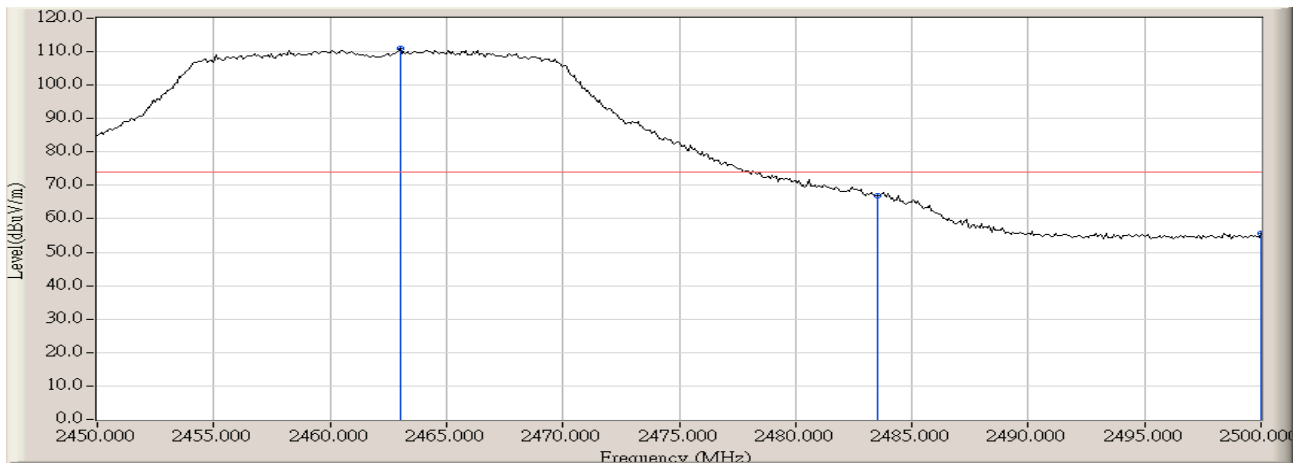
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.833	-3.248	94.378	91.130	N/A	N/A	AVERAGE
2		2483.500	-3.177	48.682	45.505	-8.465	53.970	AVERAGE
3		2500.000	-3.135	44.281	41.146	-12.824	53.970	AVERAGE

**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



Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 11:21
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz

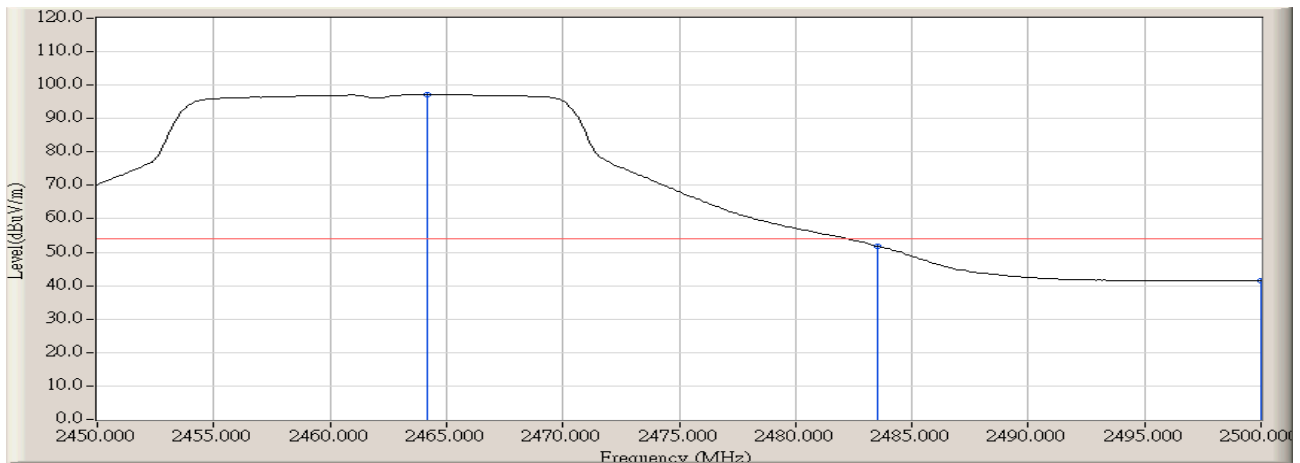


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.000	-3.256	114.250	110.994	N/A	N/A	PEAK
2		2483.500	-3.177	69.946	66.769	-7.201	73.970	PEAK
3		2500.000	-3.135	58.936	55.801	-18.169	73.970	PEAK

**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

Engineer : Robin	
Site : AC3 (3m Semi-Anechoic Chamber)	Time : 2008/04/02 - 11:24
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11g Wireless ADSL2+ Router	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.167	-3.251	100.487	97.236	N/A	N/A	AVERAGE
2		2483.500	-3.177	55.003	51.826	-2.144	53.970	AVERAGE
3		2500.000	-3.135	44.741	41.606	-12.364	53.970	AVERAGE

**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

## 7. Operation Frequency Range of 20dB Bandwidth

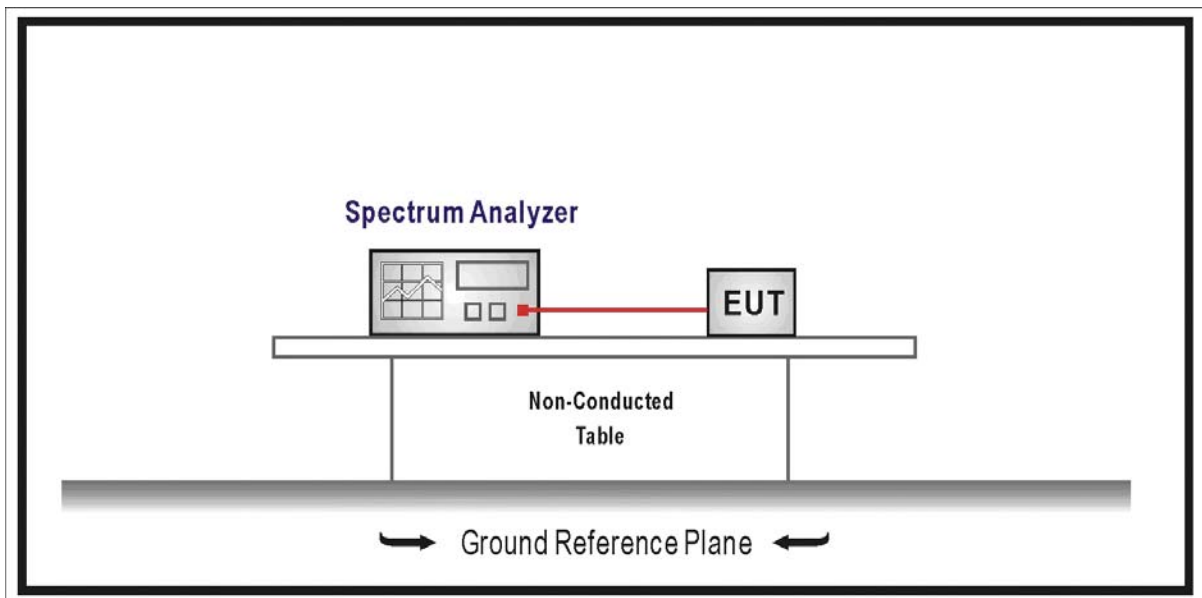
### 7.1. Test Equipment

Operation Frequency Range of 20dB Bandwidth / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2007/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2007/11/30

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 7.2. Test Setup



### 7.3. Limit

20 dB bandwidth of the emission is contained within the operation frequency band.

### 7.4. Test Procedure

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

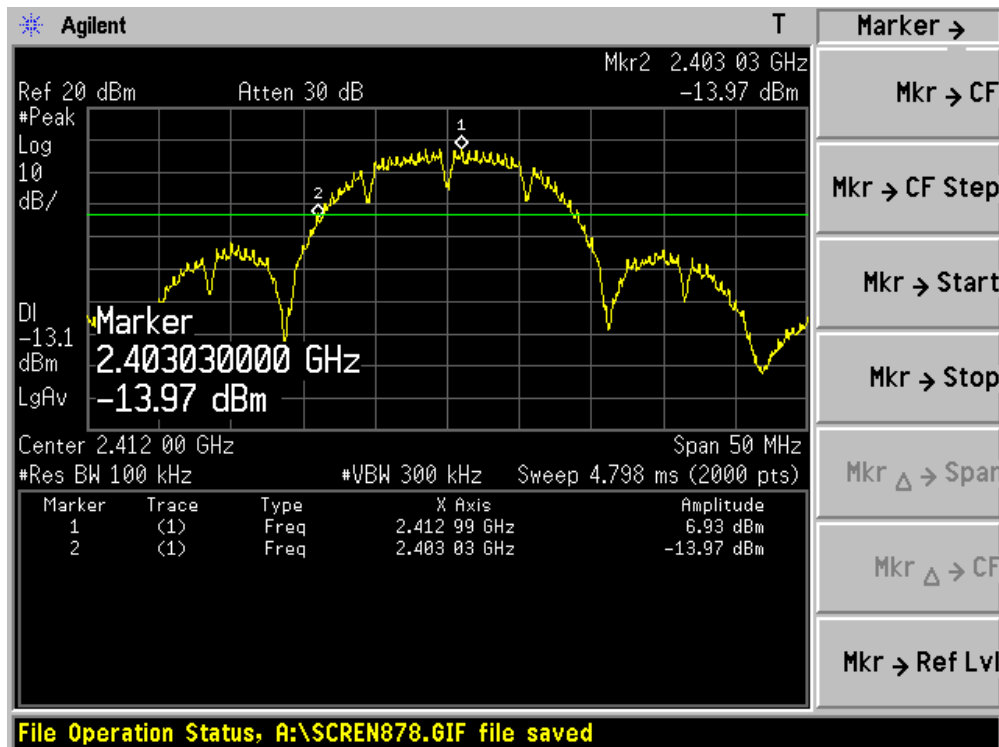
## 7.5. Uncertainty

The measurement uncertainty is defined as  $\pm 1$  kHz

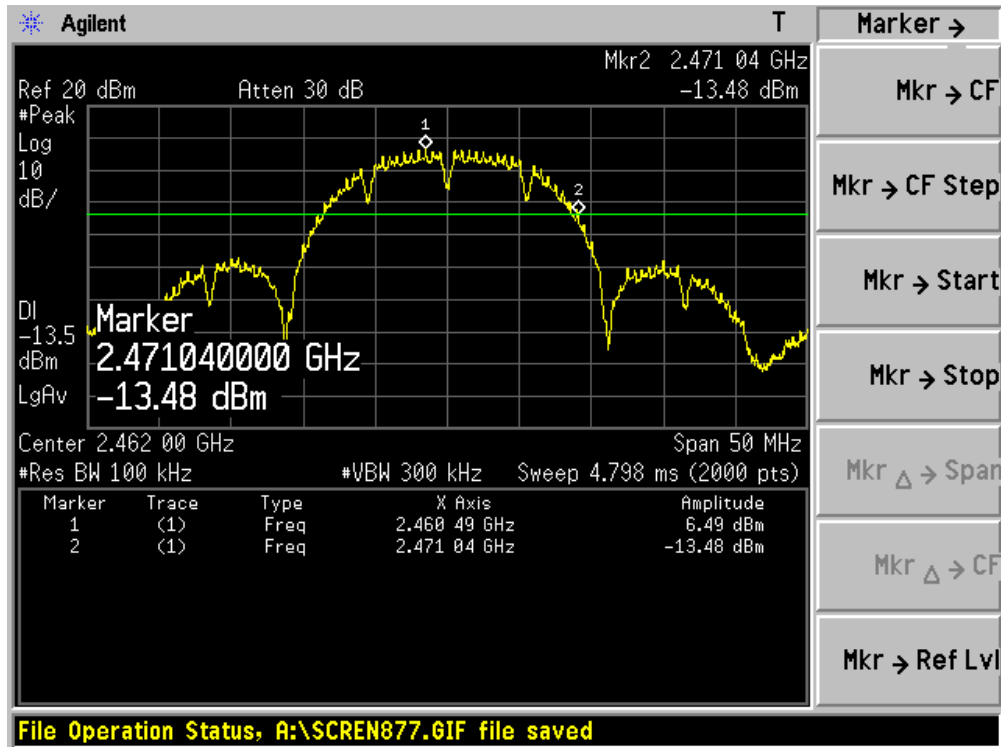
7.6. Test Result

Product	:	802.11g Wireless ADSL2+ Router
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b

Channel 01 (2412MHz)

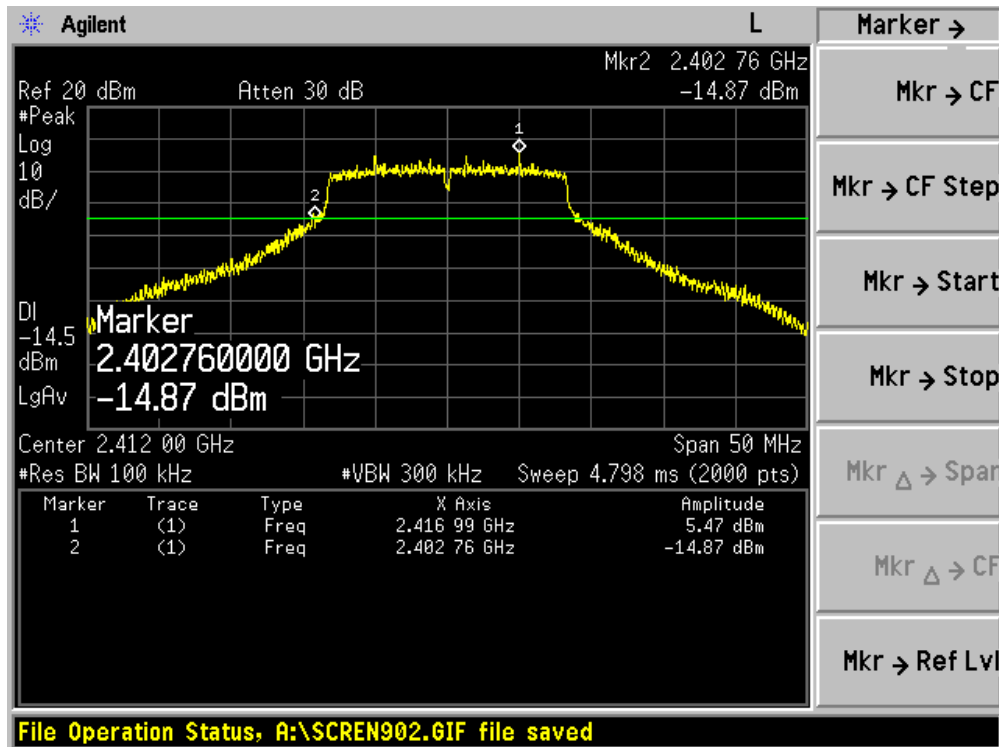


Channel 11 (2462MHz)

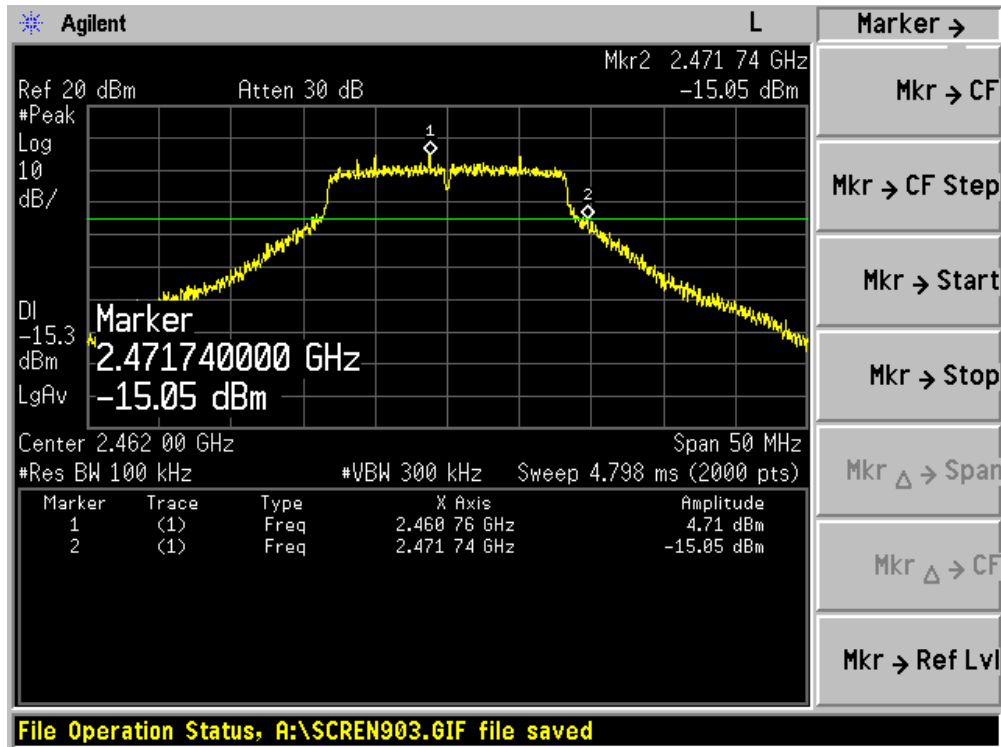


Product	: 802.11g Wireless ADSL2+ Router
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: AC-4
Test Mode	: Mode 2: Transmit by 802.11g

Channel 01 (2412MHz)



Channel 11 (2462MHz)





**8. Occupied Bandwidth**

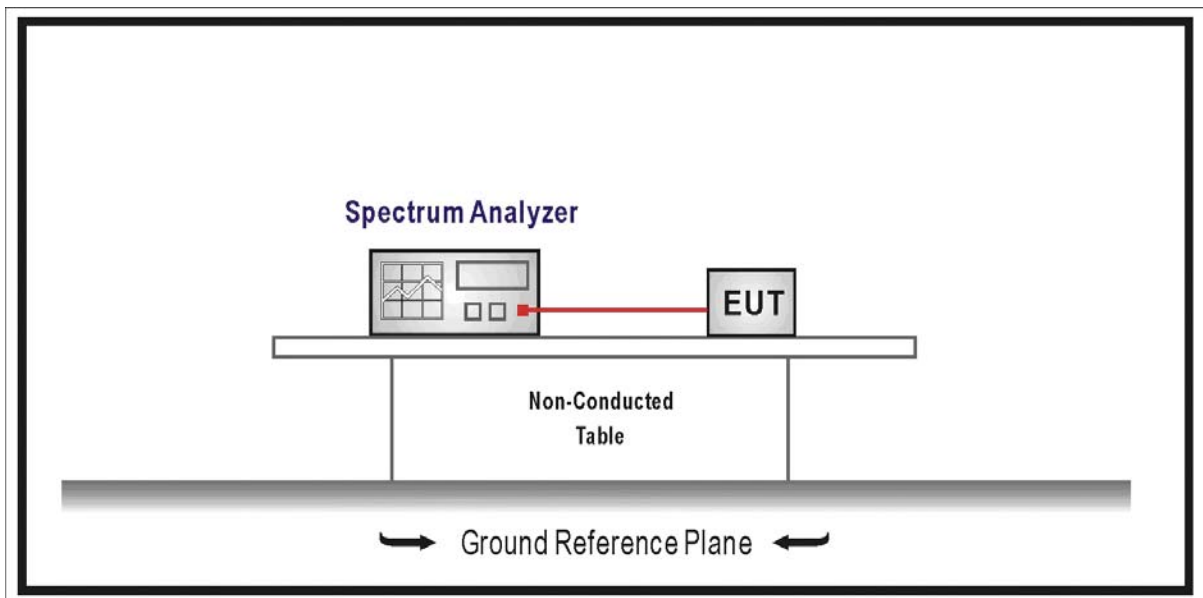
**8.1. Test Equipment**

Occupied Bandwidth / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2007/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2007/11/30

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

**8.2. Test Setup**



**8.3. Limit**

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

**8.4. Test Procedure**

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

**8.5. Uncertainty**

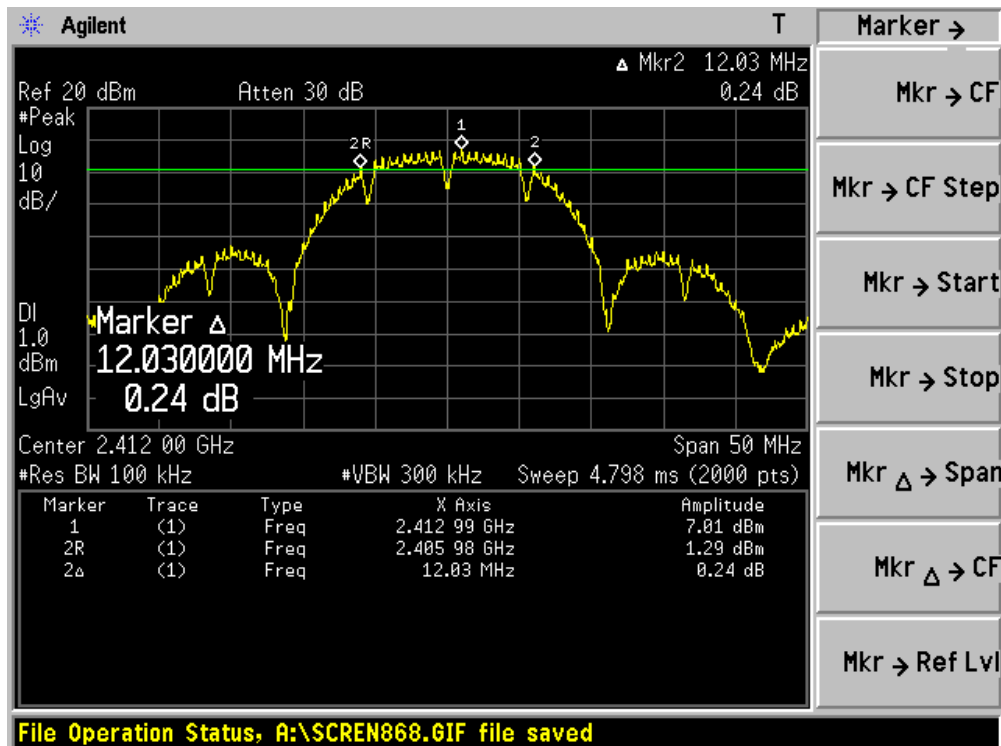
The measurement uncertainty is defined as  $\pm 1$  kHz

8.6. Test Result

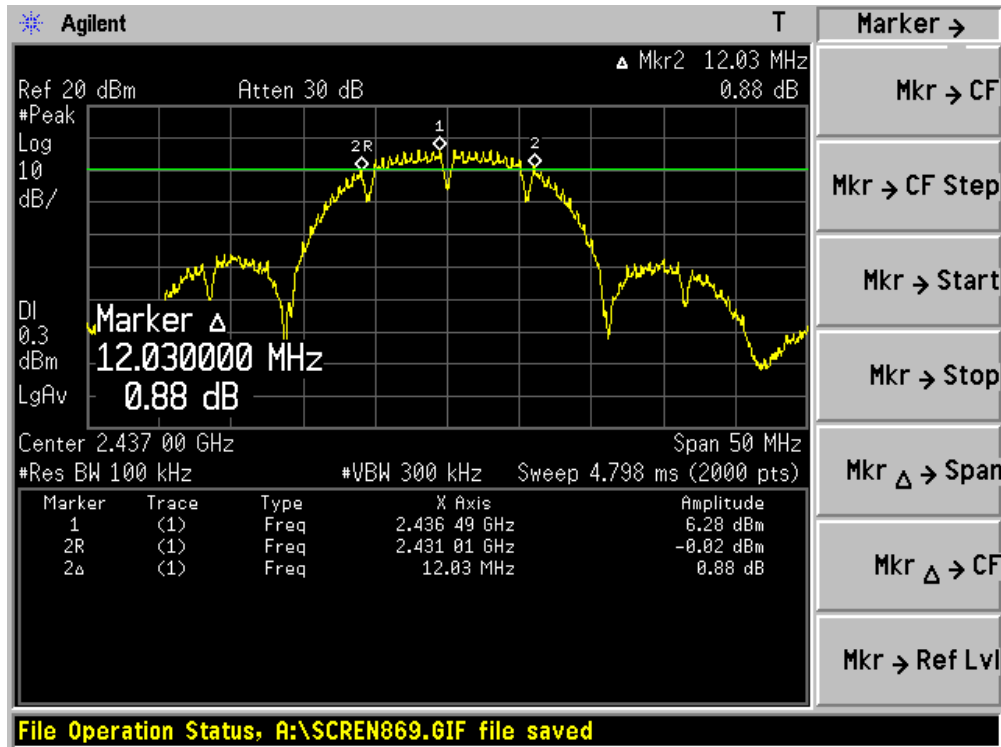
Product	:	802.11g Wireless ADSL2+ Router
Test Item	:	Occupied Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	12030	500	Pass
06	2437	12030	500	Pass
11	2462	11930	500	Pass

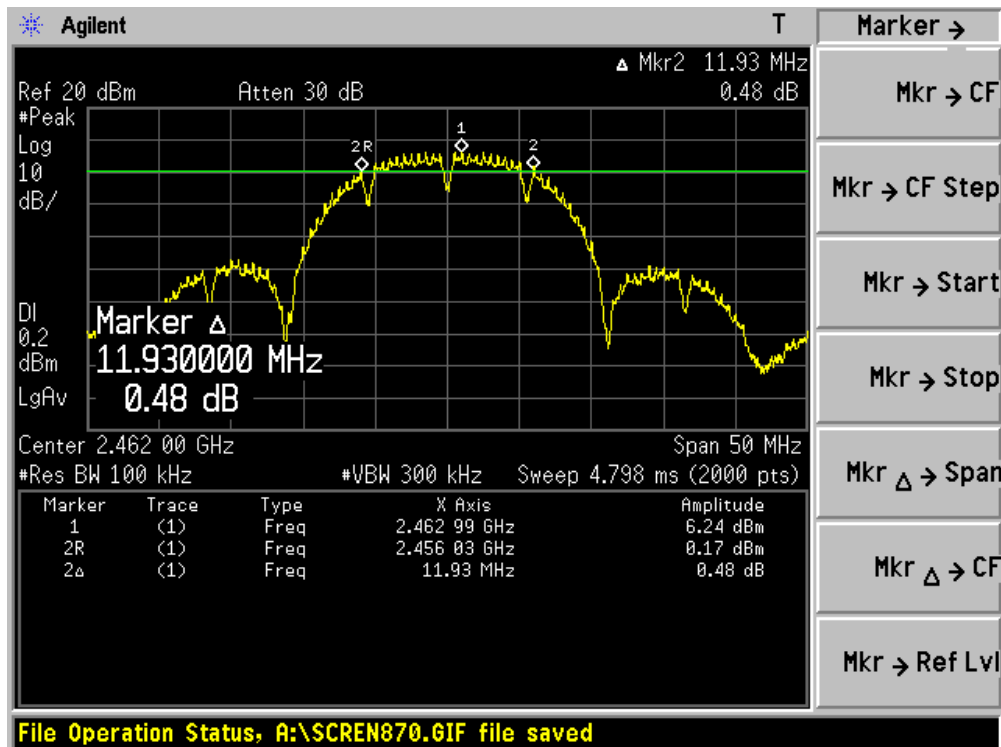
Channel 01 (2412MHz)



Channel 06 (2437MHz)



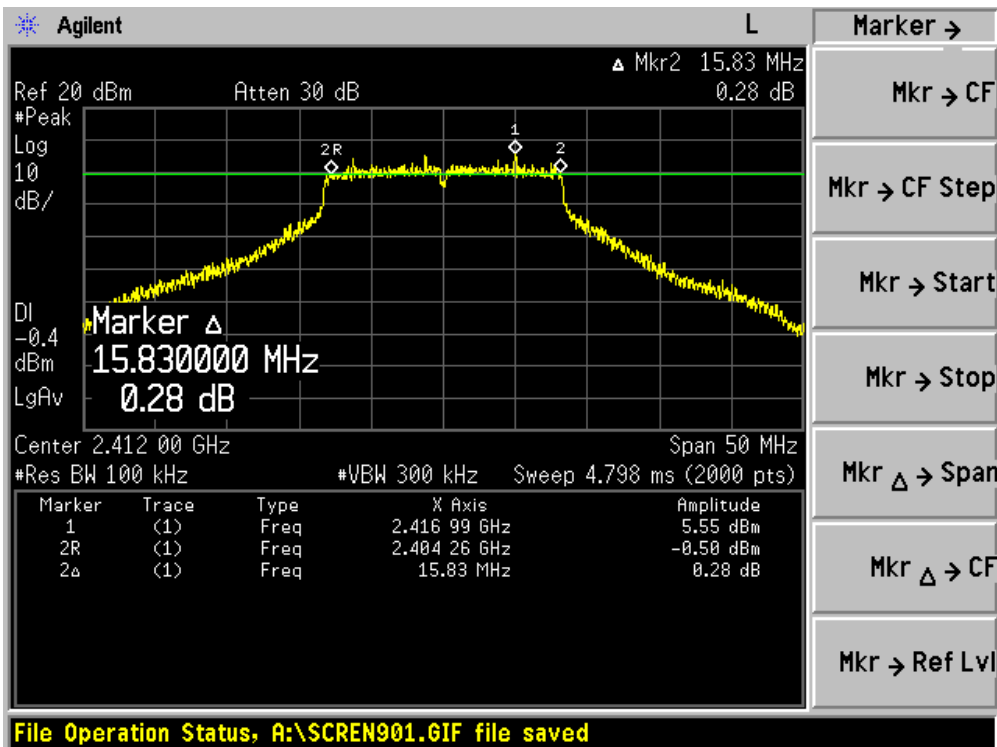
Channel 11 (2462MHz)



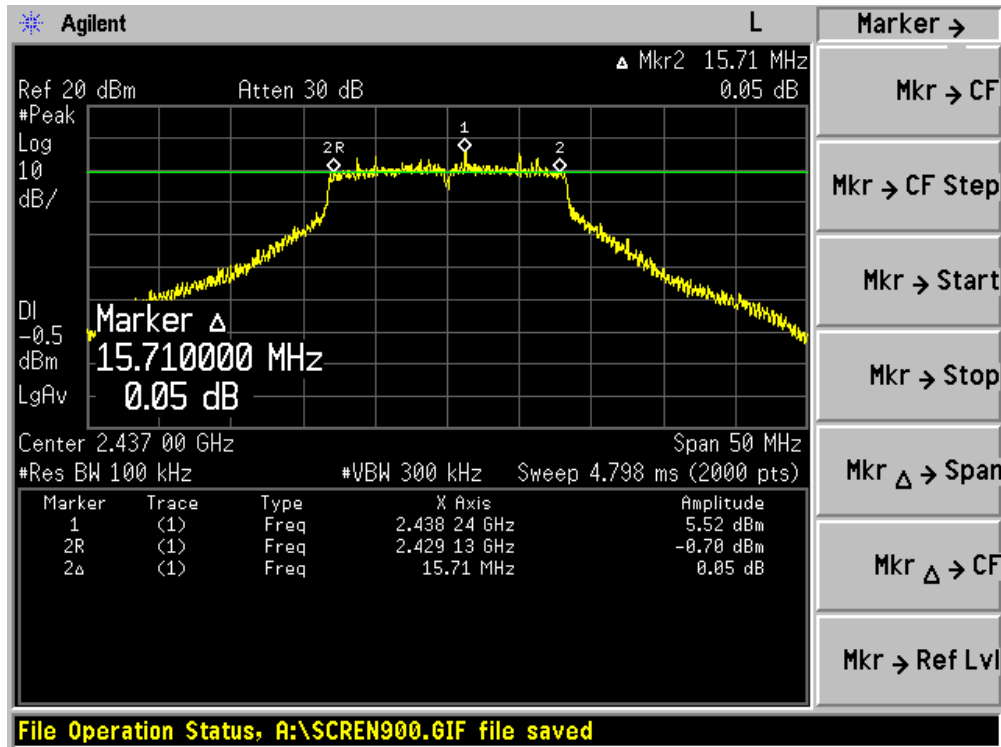
Product	:	802.11g Wireless ADSL2+ Router
Test Item	:	Occupied Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	15830	500	Pass
06	2437	15710	500	Pass
11	2462	16080	500	Pass

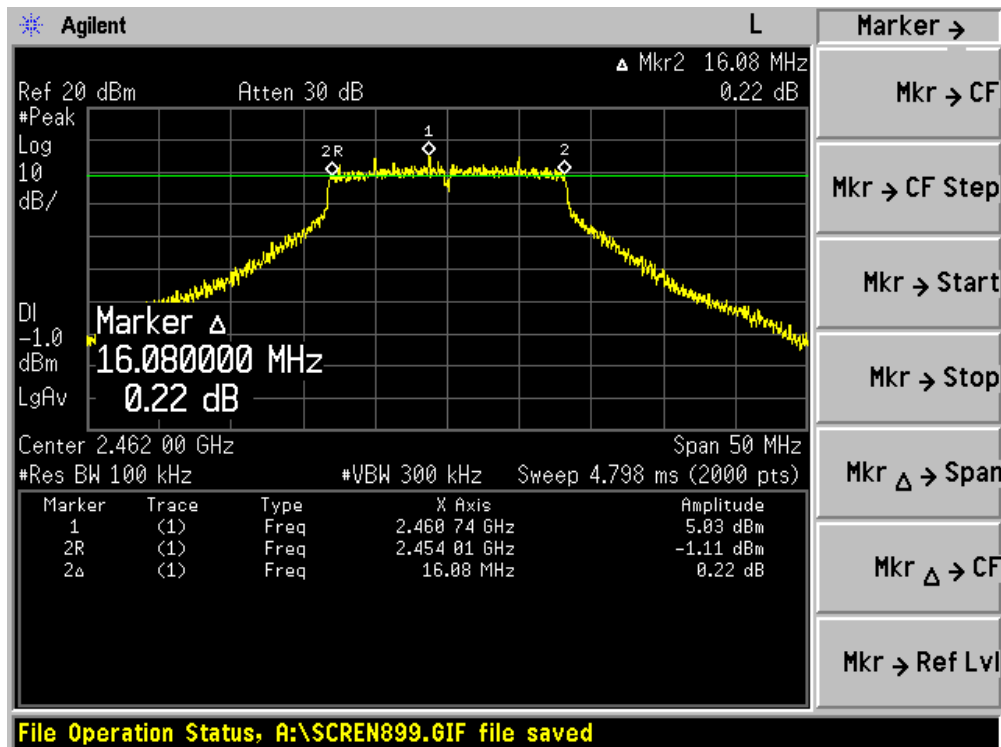
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



## 9. Power Output

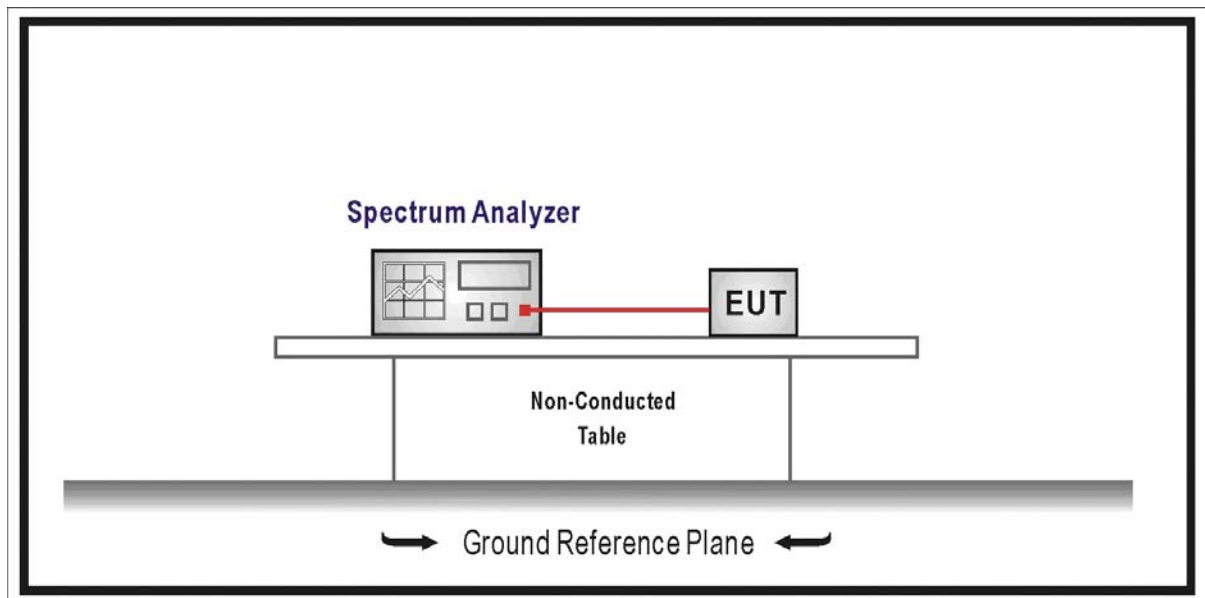
### 9.1. Test Equipment

Power Output / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2007/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2007/11/30

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 9.2. Test Setup



### 9.3. Limit

The maximum peak power shall be less 1 Watt (30dBm).

Note: the conducted output power limit specified above is based on the use the antennas with directional gains that do not exceed 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values above, as appropriate, by the amount in dB that the directional gain of antenna exceeds 6 dBi.

### 9.4. Test Procedure

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Power output measurement allowed per Section 15.247(b)(3).

In the following, “T” is the transmission pulse duration over which the transmitter is on and transmitting at its maximum power control level. Measurements are performed with a spectrum analyzer. Three methods are provided to accommodate measurement limitations of the spectrum analyzer depending on signal parameters. Set resolution bandwidth (RBW) = 1 MHz. Set span to encompass the entire emission bandwidth (EBW) of the signal. Use automatic setting for analyzer sweep time.

As “T”  $\geq$  sweep time, the test procedure will be used as following:

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz.
3. Set VBW  $\geq$  3 MHz.
4. Use sample detector mode if bin width (i.e., span/number of points in spectrum display) < 0.5 RBW. Otherwise use peak detector mode.
5. Use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at full control power for entire sweep of every sweep. If the device transmits continuously, with no off intervals or reduced power intervals, the trigger may be set to “free run”.
6. Trace average 100 traces in power averaging mode.
7. Compute power by integrating the spectrum across the 26 dB EBW of the signal. The integration can be performed using the spectrum analyzer’s band power measurement function with band limits set equal to the EBW band edges or by summing power levels in each 1 MHz band in linear power terms. The 1 MHz band power levels to be summed can be obtained by averaging, in linear power terms, power levels in each frequency bin across the 1 MHz.

## 9.5. Uncertainty

The measurement uncertainty is defined as  $\pm 1.27$  dB



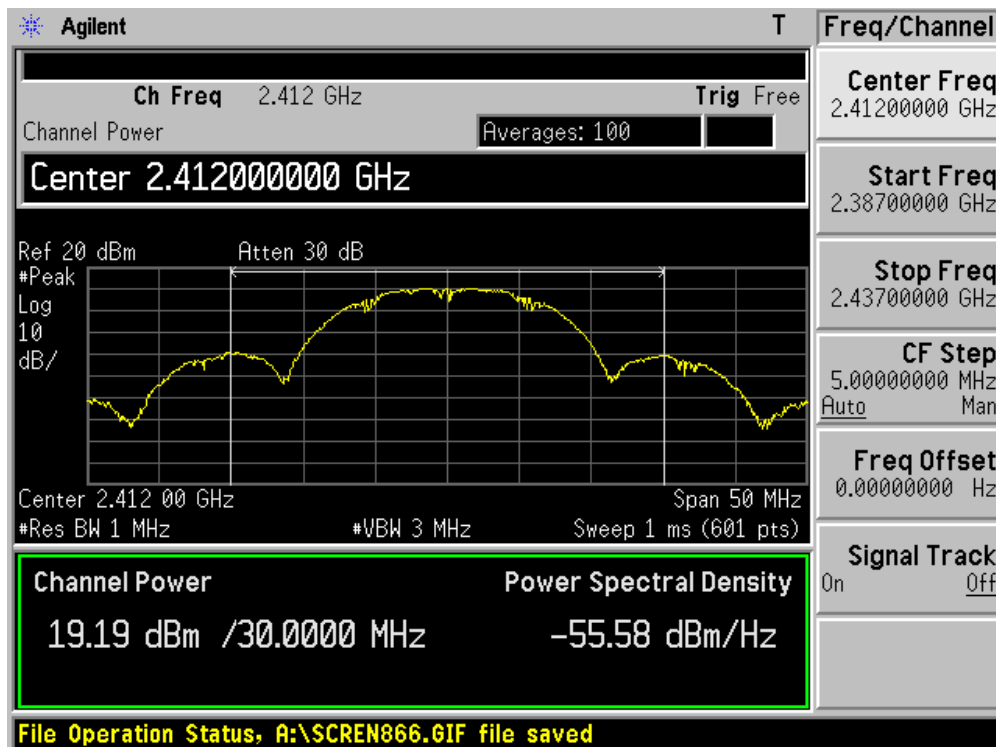
9.6. Test Result

Product	:	802.11g Wireless ADSL2+ Router
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b

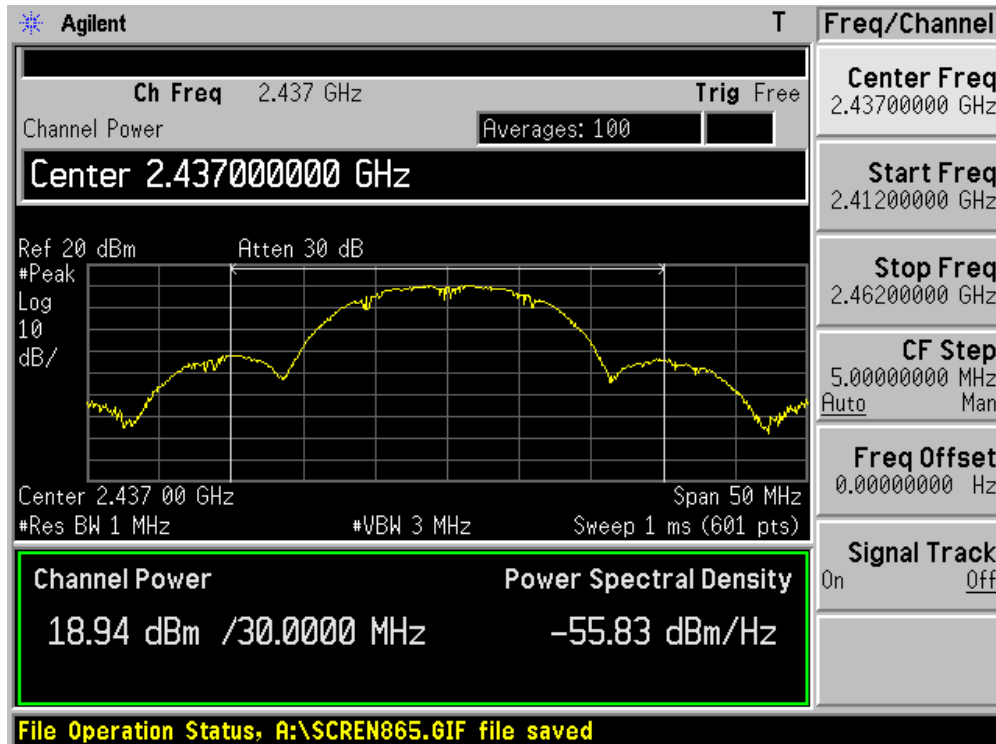
Channel No.	Frequency (MHz)	Data Rate (Mbps)				Limit (dBm)
		1	2	5.5	11	
01	2412	19.19	--	--	--	30
06	2437	18.94	18.83	18.76	18.68	30
11	2462	18.47	--	--	--	30

Note: The antenna gain of transmitter is less than 6 dBi and other than fixed, point-to-point operation, therefore the limit is 30 dBm.

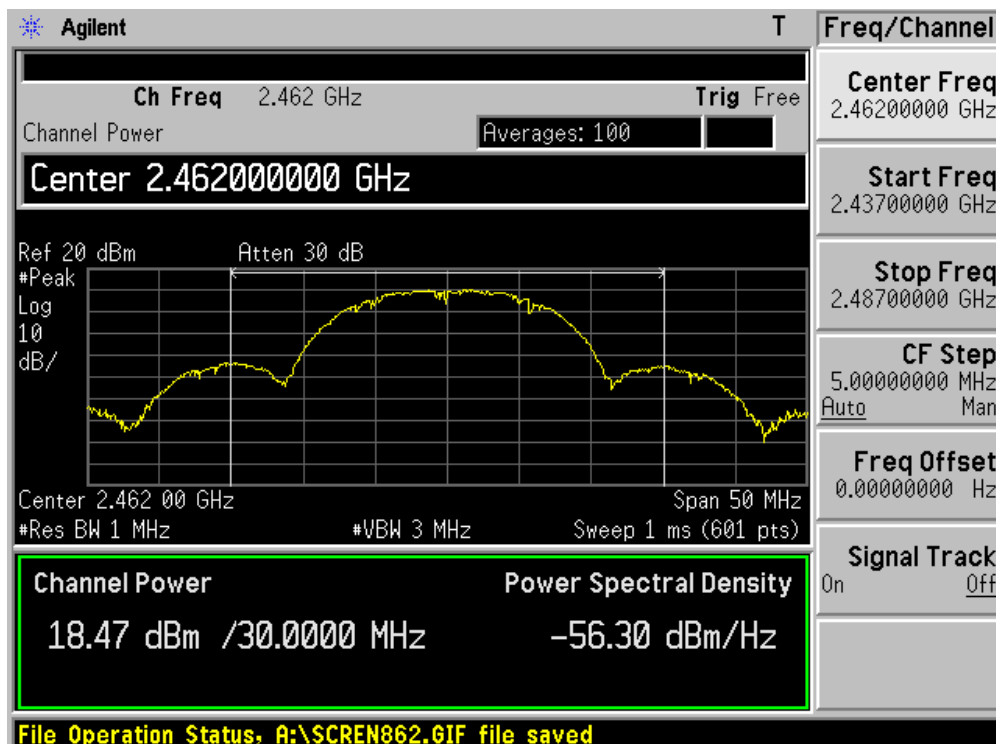
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

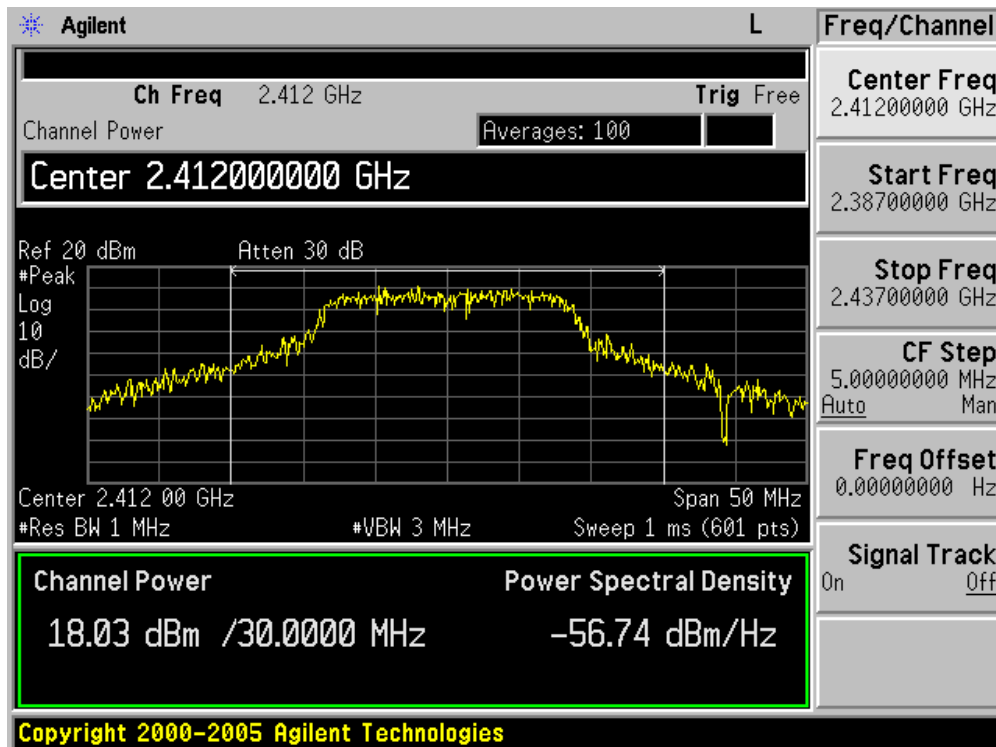


Product	:	802.11g Wireless ADSL2+ Router
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g

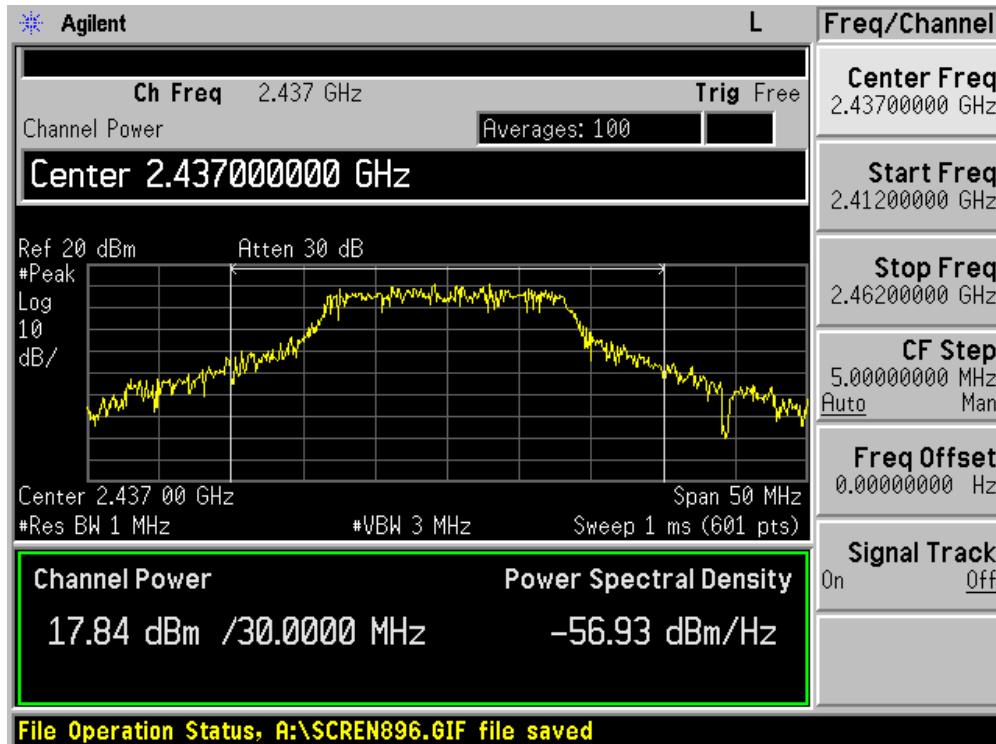
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Limit (dBm)
		6	9	12	18	24	36	48	54	
01	2412	18.03	--	--	--	--	--	--	--	30
06	2437	17.84	17.77	17.69	17.58	17.47	17.39	17.28	17.24	30
11	2462	17.82	--	--	--	--	--	--	--	30

Note: The antenna gain of transmitter is less than 6 dBi and other than fixed, point-to-point operation, therefore the limit is 30 dBm.

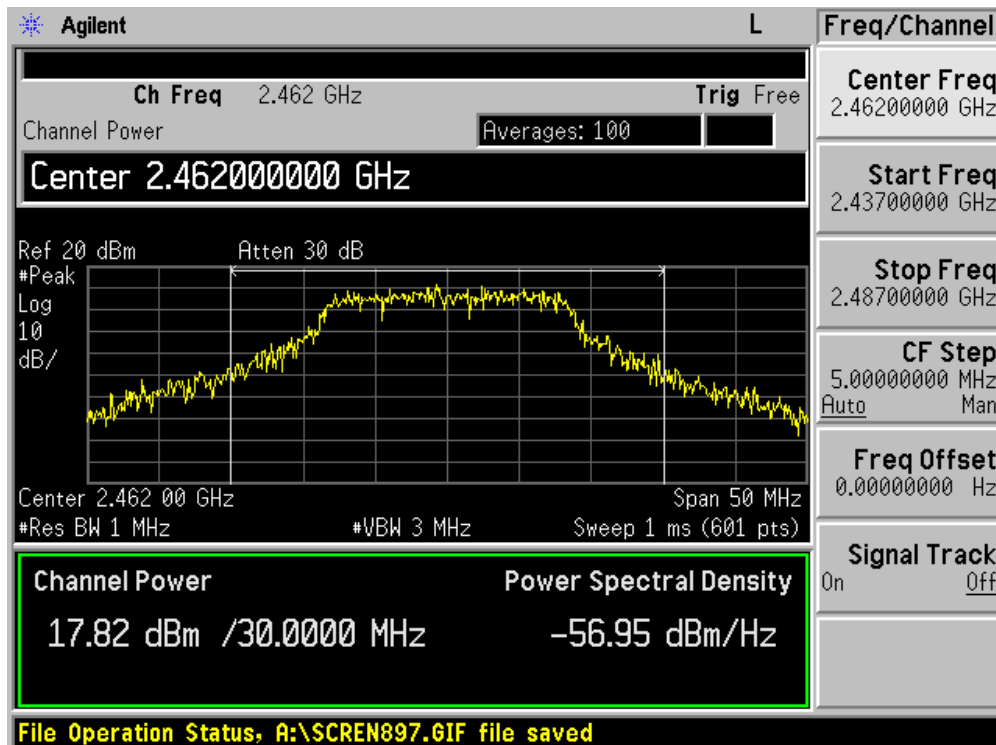
### Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



**10. Power Spectral Density**

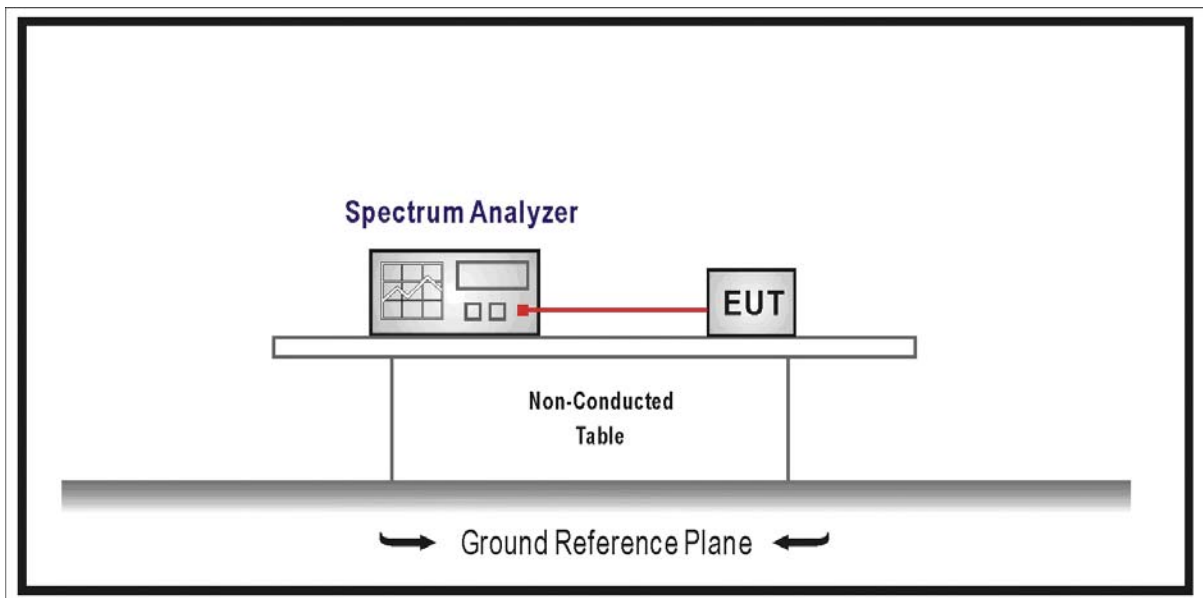
**10.1. Test Equipment**

Power Spectral Density / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2007/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2007/11/30

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

**10.2. Test Setup**



**10.3. Limit**

For digitally modulated systems, the 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.

**10.4. Test Procedure**

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW= 3 kHz, Set VBW  $\geq$  9 kHz, Sweep time=Auto, Set detector=Peak detector.

### **10.5. Uncertainty**

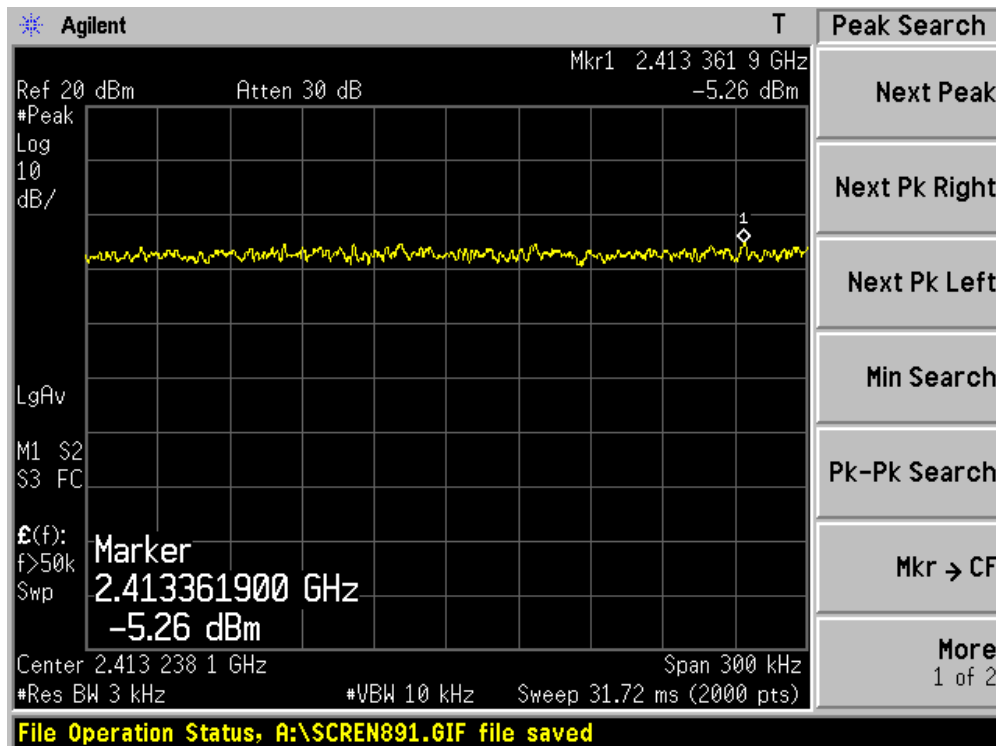
The measurement uncertainty is defined as  $\pm 1.27$  dB

10.6. Test Result

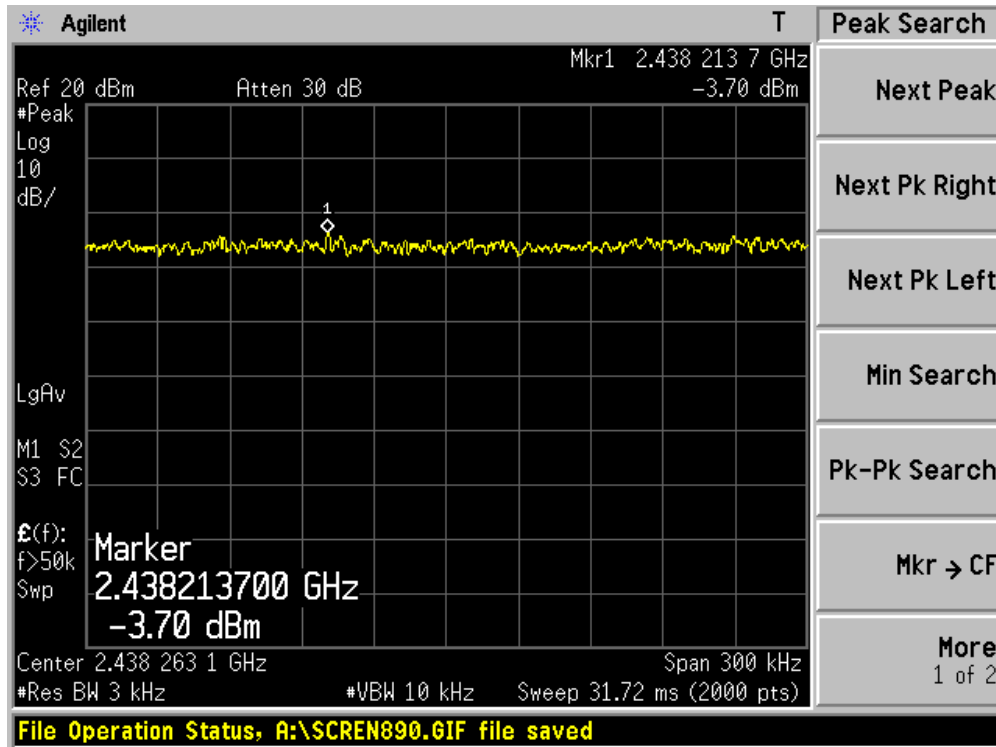
Product	:	802.11g Wireless ADSL2+ Router
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-5.26	8	Pass
06	2437	-3.70	8	Pass
11	2462	-2.75	8	Pass

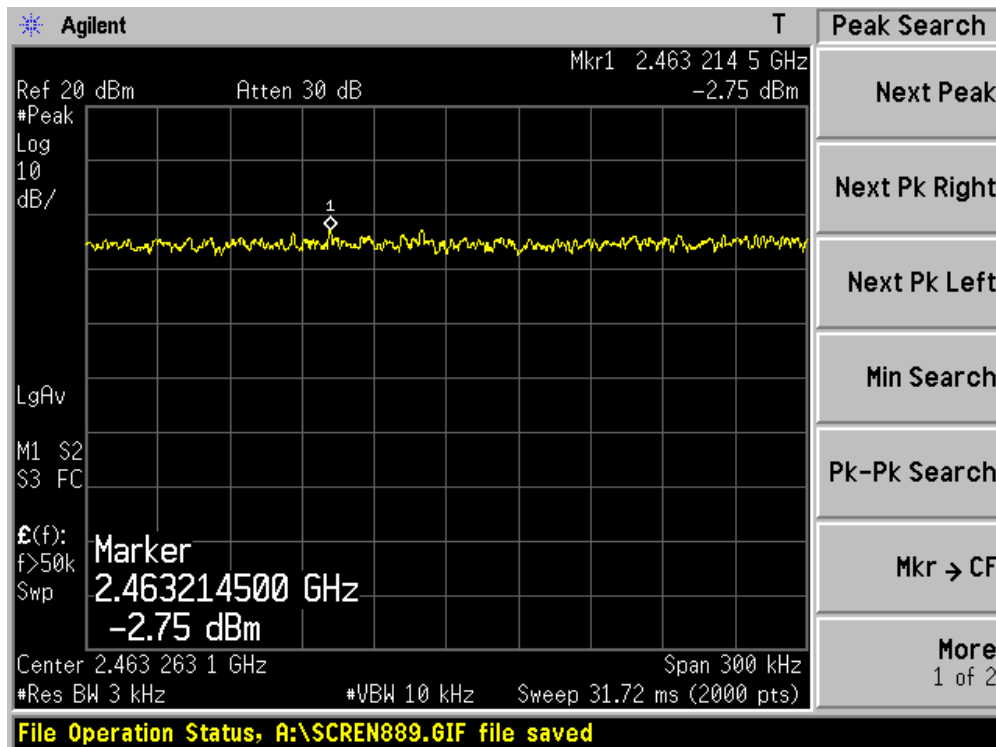
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

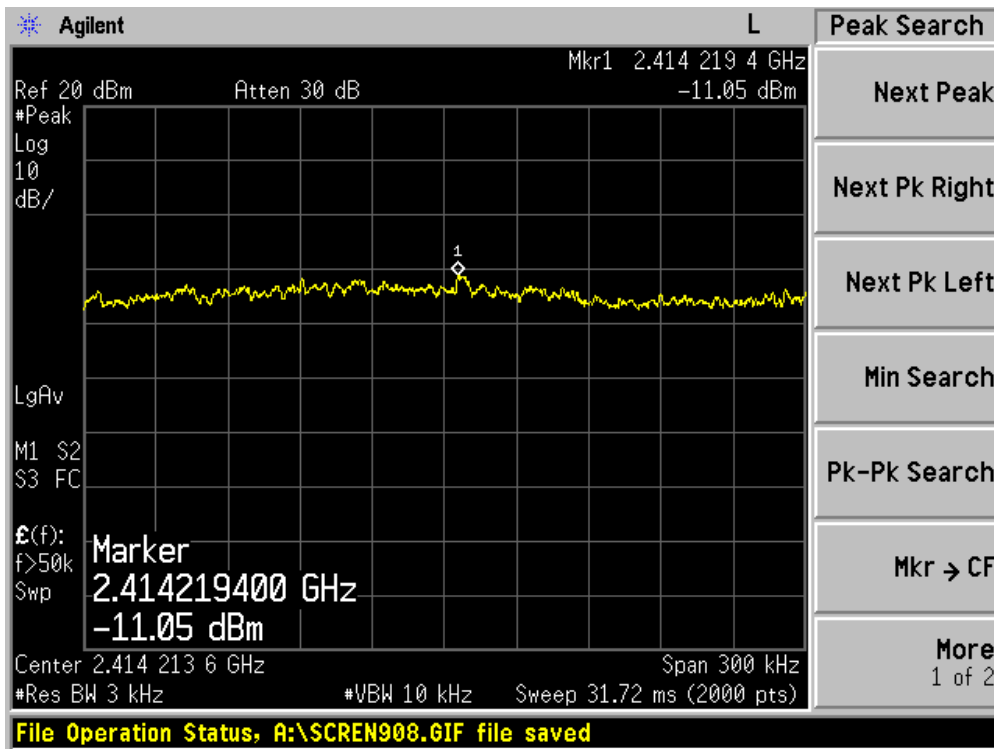




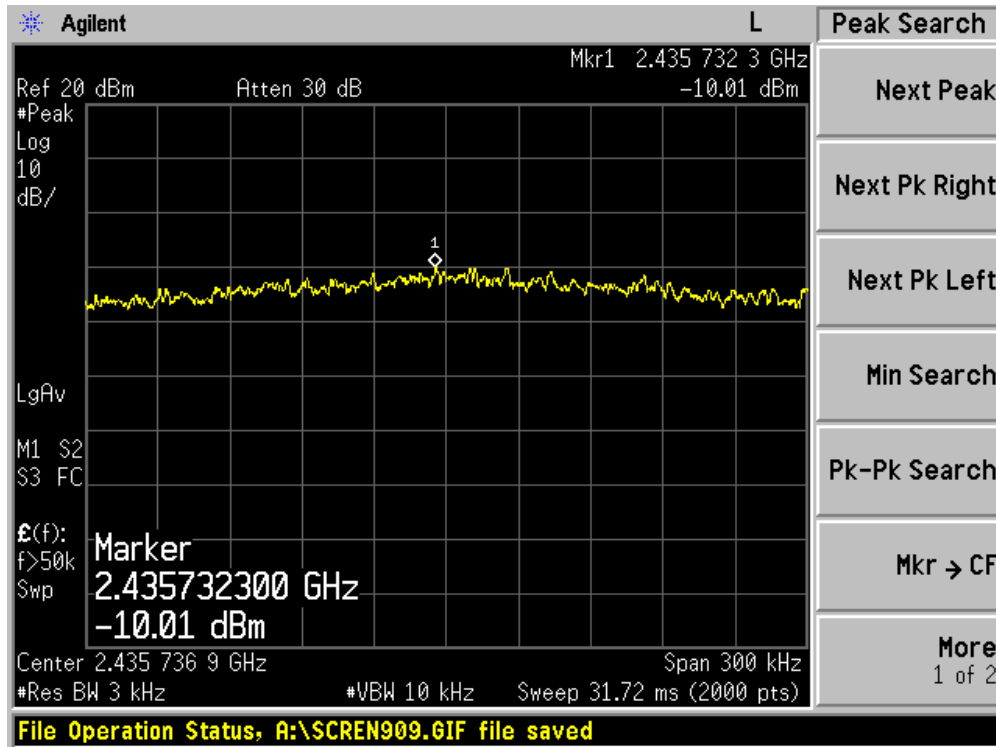
Product	:	802.11g Wireless ADSL2+ Router
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-11.05	8	Pass
06	2437	-10.01	8	Pass
11	2462	-10.24	8	Pass

### Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

