

MEASUREMENT REPORT

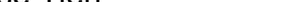
(FCC : Part 15 Subpart B & C (15.247) / ANSI C63.4:2003)



Testing Laboratory
1288

Product.....: 802.11b/g wireless Cardbus PC Card
Trade Name.: Amigo (The other see Appendix II)
Model No.: AWP-914T (The other see Appendix II)
Applicant.: Amigo Technology Inc.
Applicant Address.: 1F, No. 285, Sec 2, Ti-Ding Blvd., Nei Hu, Taipei, Taiwan 114, R.O.C.

Report Number	MLT0610P15001
Applicant	Amigo Technology Inc.
Product	802.11b/g wireless Cardbus PC Card
Sample Received Date	2006/10/04

Report Prepared By	Jesse Tien
Signature	
Date Prepared	2006/10/05 ~ 2006/11/03

Report Authorized By	Roger Chen
Signature	
Date Authorized	2007/01/12

Test By

Max Light Technology Co., Ltd.
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laboratory.

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CERTIFICATION

We here by verify that :

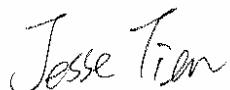
The test data, data evaluation, test procedures and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4: 2003. All test were conducted by

MLT(Max Light Technology Co.,Ltd) Room 5, 8F, No.125, Section 3 Roosevelt Road, Taipei, Taiwan, R.O.C Also, we attest to the accuracy of each.

We further submit that the energy emitted by the sample EUT tested as described in the report is in compliance with Class B radiated and conducted emission limit of FCC Rules Part 15 Subpart B & C (15.247).

Applicant Name	Amigo Technology Inc.
Applicant Address	1F, No. 285, Sec 2, Ti-Ding Blvd., Nei Hu, Taipei, Taiwan 114, R.O.C.
Manufacturer Name	FAIRWAY ELECTRONIC CO.,LTD.
Manufacturer Address	Huang Cjong No. 3 Industrial Area, Zhong Tang Town, Dong Guan, City, Guang Dong Province, China

Equipment	802.11b/g wireless Cardbus PC Card
Model No	AWP-914T (The other see Appendix II)
FCC ID	RC6AWP-914T

Report Prepared By	Jesse Tien
Signature	

Report Authorized By	Roger Chen
Signature	

I. GENERAL

1.1 Introduction

The following measurement report is submitted on behalf of Amigo Technology Inc. In support of a Class B Digital Device certification in accordance with Part2 Subpart J and Part 15 Subpart A , B and C of the Commission's and Regulations.

1.2 Customer Details

Applicant Name	Amigo Technology Inc.
Applicant Address	1F, No. 285, Sec 2, Ti-Ding Blvd., Nei Hu, Taipei, Taiwan 114, R.O.C.
Manufacturer Name	FAIRWAY ELECTRONIC CO.,LTD.
Manufacturer Address	Huang Cjong No. 3 Industrial Area, Zhong Tang Town, Dong Guan, City, Guang Dong Province, China

1.3 Technical data of EUT

Equipment	802.11b/g wireless Cardbus PC Card
Model No	AWP-914T (The other see Appendix II)
FCC ID	RC6AWP-914T
Power Type	Powered by PC/Desktop)
Type of Modulation	802.11b: CCK,DSSS 802.11g: OFDM
Type of Antenna	1/4λ Dipole Sleeve
Frequency of Channel	See Next page

During testing the EUT was operated at Tx or Rx mode for each emission measured. This was done in order to ensure that maximum emission levels were attained.

802.11b & 802.11g Frequency of Each Channel (Working Frequency)

Channel No.	Frequency (MHz)
01	2412
02	2417
03	2422
04	2427
05	2432
06	2437
07	2442
08	2447
09	2452
10	2457
11	2462

1.4 Summary Of Tests

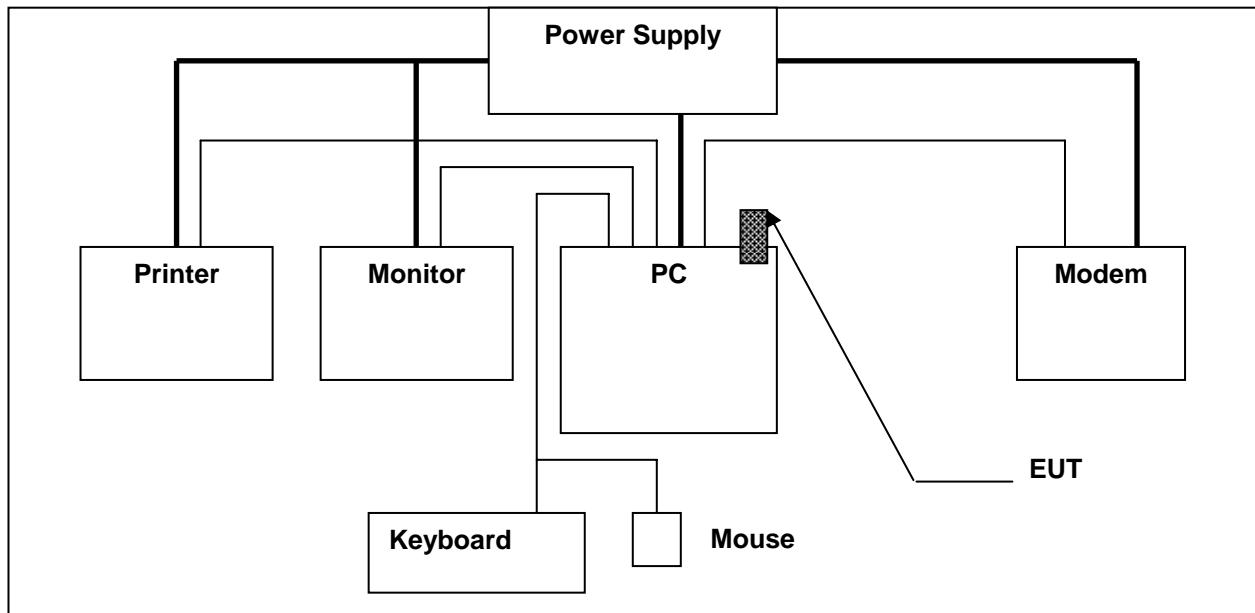
47 CFR Part 15 Subpart C			
Reference	Test	Results	Note
15.107	AC Power Conducted Emission	PASS	
15.247(c)	Transmitter Radiated Emissions	PASS	
15.247(b)	Max. Output Power	PASS	
15.247(a)(2)	6dB RF Bandwidth	PASS	
15.247(d)	Max. Power Density	PASS	
15.247(c)	Out of Band Conducted Spurious Emission	PASS	
15.247(c)	Band Edge Measurement	PASS	
15.203	Antenna Requirement	PASS	

1.5 Description of Support Equipment

In order to construct the minimum system which required by the ANSI C63.4: 2003, following equipments were used as the support units.

Component	Manufacturer	Model No.	Serial No.	FCC ID
Computer	Dell	DMC	CD6Y91S	FCC DOC
Monitor	EIZO	FlexScan L375	20809091	FCC DOC
Keyboard	Dell	SK8110	MY-05N456-38843-2CV-0642	FCC DOC
Mouse	DELL	M-SAW94	LZB34304316	FCC DOC
Printer	PANASONIC	KX-P10801	70KAKE93933	FCC DOC
Modem	ASKEY	WS1414SV	V1414VQE	FCC DOC
NB	DELL	PP19L	TD108 A00	FCC DOC

1.6 Configuration of System Under Test



1.7 Test Procedure

All measurements contained in this report were performed according to the techniques described in Measurement procedure ANSI C63.4: 2003 "Measurement of un-Intentional Radiators."

1.8 General Test Condition

The conditions under which the EUT operates were varied to determine their effect on the equipment's emission characteristics. The final configuration of the test system and the mode of operation used during these tests were chosen as that which produced the highest emission levels. However, only those conditions which the EUT was considered likely to encounter in normal use were investigated. The system's radiated and conducted emissions were investigated while the computer alternately transferred data to the EUT as well as to the monitor and printer. Using a test program which sent a continuous data and transferred data to and from the EUT was proven to worst case emissions. The system's physical layout and cabling was randomly arranged to ensure that maximum emission levels were attained.

II. Conducted Emissions Requirements

2.1 General & Setup :

The power line conducted emission measurements were performed in a shielded enclosure. The EUT was assembled on a wooden table which is 80 centimeters high, was placed 40 centimeters from the back-wall and at least 1 meter from the sidewall.

Power was fed to the EUT from the public utility power grid through a line filter and EMCO Model 3825/2 Line Impedance Stabilization Networks (LISN). The LISN housing, measuring instrumentation case, ground plane, etc., were electrically bonded together at the same RF potential. The Spectrum analyzer was connected to the AC line through an isolation transformer. The 50-ohm output of the LISN was connected to the spectrum analyzer directly. Conducted emission levels were in the CISPR quasi-peak detection mode. The analyzer's 6 dB bandwidth was set to 9 KHz. No post-detector video filter was used.

The spectrum was scanned from 150 KHz to 30 MHz. The physical arrangement of the test system and associated cabling was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude and frequency. All spurious emission frequencies were observed. The highest emission amplitudes relative to the appropriate limit were measured and have been recorded in paragraph 2.6.

2.2 Test Equipment List:

Item	Mfr/Brand	Instruments	Serial No.	Model/Type No.	Calibrated Date	Next Cali. Date
1.	ADVANTEST	Spectrum Analyzer	91780529	R3131	2006/01/17	2007/01/17
2.	AFJ	EMI Receiver	55090002141	ER 55C	2006/03/31	2007/03/31
3.	EMCO	LISN	2654	3825/2	2006/03/25	2007/03/25
4.	EMCO	LISN	2658	3825/2	2006/03/25	2007/03/25
5.	SCHAFFNER	ISN	16831	ISN T400	N/A	N/A

2.3 Test Configuration:



Front View of The Test Configuration



Rear View of The Test Configuration

2.4 Test condition:

EUT tested in accordance with the specifications given by the Manufacturer , and exercised in the most unfavorable manner.

2.5 Conducted Emissions Limits:

Frequency range (MHz)	Limits (dBuV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5.0	56	46
5.0 to 30	60	50

2.6 Measurement Data Of Conducted Emissions:

2.6.1 Conducted Emissions (Subpart B & C)

The following table show a summary of the highest emissions of power line conducted emissions to the HOT and NEUTRAL conductor of the EUT power.

Applicant : Amigo Technology Inc.
Model No : AWP-914T (The other see Appendix II)
EUT : 802.11b/g wireless Cardbus PC Card
Test Mode : 802.11b (CH01)

Conducted Emissions (Class B)					
Conductor	Frequency (MHz)	Quasi-Peak (dBuV)	Limits (dBuV)	Average (dBuV)	Limits (dBuV)
L1	0.23	45.81	62.13	--	52.13
	0.35	47.67	58.96	--	48.96
	0.55	41.94	56	--	46
	0.83	43.15	56	--	46
	1.33	50.18	56	41.16	46
	3.09	38.17	56	--	46
	20.49	39.77	60	--	50
L2	0.35	47.85	58.96	--	48.96
	0.47	42.29	56.41	--	46.41
	0.84	42.59	56	--	46
	0.95	44.07	56	--	46
	1.33	50.50	56	40.61	46
	2.07	39.19	56	--	46
	20.49	38.67	60	--	50

Notes : 1.L1: One end & Ground L2: The other end & Ground

2. Height of table on which the EUT was placed : 0.8 m.

3. The Quasi-Peak Value have already met the Average Value Limit showed on above limits.

4. The above test results are obtained under the normal condition.

2.6.2 Conducted Emissions (Subpart B & C)

The following table show a summary of the highest emissions of power line conducted emissions to the HOT and NEUTRAL conductor of the EUT power.

Applicant : Amigo Technology Inc.
 Model No : AWP-914T (The other see Appendix II)
 EUT : 802.11b/g wireless Cardbus PC Card
 Test Mode : 802.11b (CH06)

Conducted Emissions (Class B)					
Conductor	Frequency (MHz)	Quasi-Peak (dBuV)	Limits (dBuV)	Average (dBuV)	Limits (dBuV)
L1	0.35	47.76	58.78	--	48.78
	0.47	41.93	56.41	--	46.41
	0.83	43.04	56	--	46
	1.33	49.43	56	41.16	46
	2.61	37.51	56	--	46
	12.19	38.37	60	--	50
	20.49	38.80	60	--	50
L2	0.35	48.02	58.96	--	48.96
	0.58	44.28	56	--	46
	0.95	44.07	56	--	46
	1.33	49.08	56	40.51	46
	2.47	35.80	56	--	46
	5.74	36.87	60	--	50
	15.72	42.57	60	--	50

Notes : 1.L1: One end & Ground L2: The other end & Ground

2.Height of table on which the EUT was placed : 0.8 m.

3.The Quasi-Peak Value have already met the Average Value Limit showed on above limits.

4.The above test results are obtained under the normal condition.

2.6.3 Conducted Emissions (Subpart B & C)

The following table show a summary of the highest emissions of power line conducted emissions to the HOT and NEUTRAL conductor of the EUT power.

Applicant : Amigo Technology Inc.
 Model No : AWP-914T (The other see Appendix II)
 EUT : 802.11b/g wireless Cardbus PC Card
 Test Mode : 802.11b (CH11)

Conducted Emissions (Class B)					
Conductor	Frequency (MHz)	Quasi-Peak (dBuV)	Limits (dBuV)	Average (dBuV)	Limits (dBuV)
L1	0.35	47.06	58.96	--	48.96
	0.95	43.56	56	--	46
	1.33	48.93	56	41.46	46
	1.71	38.11	56	--	46
	3.31	37.41	56	--	46
	12.38	37.29	60	--	50
	20.49	39.33	60	--	50
L2	0.35	47.63	58.78	--	48.78
	0.55	42.23	56	--	46
	0.83	43.06	56	--	46
	1.33	50.30	56	40.61	46
	2.07	37.64	56	--	46
	3.44	36.68	56	--	46
	4.87	37.92	56	--	46

Notes : 1.L1: One end & Ground L2: The other end & Ground

2.Height of table on which the EUT was placed : 0.8 m.

3.The Quasi-Peak Value have already met the Average Value Limit showed on above limits.

4.The above test results are obtained under the normal condition.

2.6.4 Conducted Emissions (Subpart B & C)

The following table show a summary of the highest emissions of power line conducted emissions to the HOT and NEUTRAL conductor of the EUT power.

Applicant : Amigo Technology Inc.
 Model No : AWP-914T (The other see Appendix II)
 EUT : 802.11b/g wireless Cardbus PC Card
 Test Mode : 802.11g (CH01)

Conducted Emissions (Class B)					
Conductor	Frequency (MHz)	Quasi-Peak (dBuV)	Limits (dBuV)	Average (dBuV)	Limits (dBuV)
L1	0.35	47.70	58.96	--	48.96
	0.55	43.28	56	--	46
	0.95	43.92	56	--	46
	1.33	50.02	56	41.66	46
	4.29	35.65	56	--	46
	12.19	37.48	60	--	50
	20.49	39.35	60	--	50
L2	0.16	51.35	65.38	--	55.38
	0.35	47.69	58.96	--	48.96
	0.58	43.39	56	--	46
	0.84	43.98	56	--	46
	0.95	43.99	56	--	46
	1.33	50.05	56	40.91	46
	5.56	51.68	60	43.87	50

Notes : 1.L1: One end & Ground L2: The other end & Ground

2.Height of table on which the EUT was placed : 0.8 m.

3.The Quasi-Peak Value have already met the Average Value Limit showed on above limits.

4.The above test results are obtained under the normal condition.

2.6.5 Conducted Emissions (Subpart B & C)

The following table show a summary of the highest emissions of power line conducted emissions to the HOT and NEUTRAL conductor of the EUT power.

Applicant : Amigo Technology Inc.
 Model No : AWP-914T (The other see Appendix II)
 EUT : 802.11b/g wireless Cardbus PC Card
 Test Mode : 802.11g (CH06)

Conducted Emissions (Class B)					
Conductor	Frequency (MHz)	Quasi-Peak (dBuV)	Limits (dBuV)	Average (dBuV)	Limits (dBuV)
L1	0.16	49.69	65.30	--	55.30
	0.35	47.84	58.96	--	48.96
	0.95	44.17	56	--	46
	1.33	49.77	56	42.80	46
	3.31	37.77	56	--	46
	5.77	36.86	60	--	50
	20.49	38.94	60	--	50
L2	0.35	48.07	58.78	--	48.78
	0.84	43.76	56	--	46
	1.33	49.55	56	42.81	46
	1.45	44.49	56	--	46
	2.74	37.29	56	--	46
	11.87	38.33	60	--	50
	20.49	38.20	60	--	50

Notes : 1.L1: One end & Ground L2: The other end & Ground

2.Height of table on which the EUT was placed : 0.8 m.

3.The Quasi-Peak Value have already met the Average Value Limit showed on above limits.

4.The above test results are obtained under the normal condition.

2.6.6 Conducted Emissions (Subpart B & C)

The following table show a summary of the highest emissions of power line conducted emissions to the HOT and NEUTRAL conductor of the EUT power.

Applicant : Amigo Technology Inc.
 Model No : AWP-914T (The other see Appendix II)
 EUT : 802.11b/g wireless Cardbus PC Card
 Test Mode : 802.11g (CH11)

Conducted Emissions (Class B)					
Conductor	Frequency (MHz)	Quasi-Peak (dBuV)	Limits (dBuV)	Average (dBuV)	Limits (dBuV)
L1	0.35	47.45	58.78	--	48.78
	0.84	42.93	56	--	46
	0.95	44.28	56	--	46
	1.32	50.60	56	41.16	46
	1.45	43.68	56	--	46
	2.07	37.77	56	--	46
	4.77	36.90	56	--	46
L2	0.35	48.13	58.78	--	48.78
	0.95	44.24	56	--	46
	1.33	50.33	56	40.71	46
	1.45	44.68	56	--	46
	2.07	39.80	56	--	46
	5.53	51.45	60	39.47	50
	20.49	39.81	60	--	50

Notes : 1.L1: One end & Ground L2: The other end & Ground

2.Height of table on which the EUT was placed : 0.8 m.

3.The Quasi-Peak Value have already met the Average Value Limit showed on above limits.

4.The above test results are obtained under the normal condition.

III. Radiated Emissions Requirements

3.1 General Configuration:

Prior to open-field testing, the EUT was placed in a shielded enclosure and scanned at a close distance to determine its emission characteristics. The physical arrangement of the EUT was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude, directivity, and frequency. The exact system configuration which produced the highest emissions was noted so it could be reproduced later during the open-field tests. This was done to ensure that the final measurements would demonstrate the worst-case interference potential of the EUT.

Final radiation measurements were made on a three-meter, open-field test site. The EUT system was placed on a nonconductive turntable which was 0.8 meters height, top surface 1.0 x 1.5 meter. The spectrum was examined from 250 MHz to 2.5 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously & Measurements spectrum range from 30 MHz to 26.5 GHz is investigated.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

A nonconductive material surrounded the EUT to support the EUT for standing on three orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

The field strength below 1 GHz was measured by EMCO Biconilog Antenna (mode 3142) at 3 Meter and the SCHWARZBECK Double Ridged Guide Antenna (model BBHA9120D&9170) was used in frequencies 1 – 40 GHz at a distance of 1 meter. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20dB/decade).

For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dB_{BuV}) into field intensity in microvolts per meter(uV/m). The actual field intensity in decibels referenced to 1 microvolt in to field intensity in microvolts per meter (dB_{BuV}/m).

The actual field intensity in referenced to 1 microvolt per meter (dB_{BuV}/m) is determined by algebraically adding the measured reading in dB_{BuV}, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

$$(1) \text{Amplitude (dB}_{\text{BuV/m}}\text{)} = \text{FI(dB}_{\text{BuV}}\text{)} + \text{AF(dB}_{\text{BuV}}\text{)} + \text{CL(dB}_{\text{BuV}}\text{)} - \text{Gain(dB)}$$

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

$$(2) \text{Actual Amplitude (dB}_{\text{BuV/m}}\text{)} = \text{Amplitude (dB}_{\text{BuV}}\text{)} - \text{Dis(dB)}$$

The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:

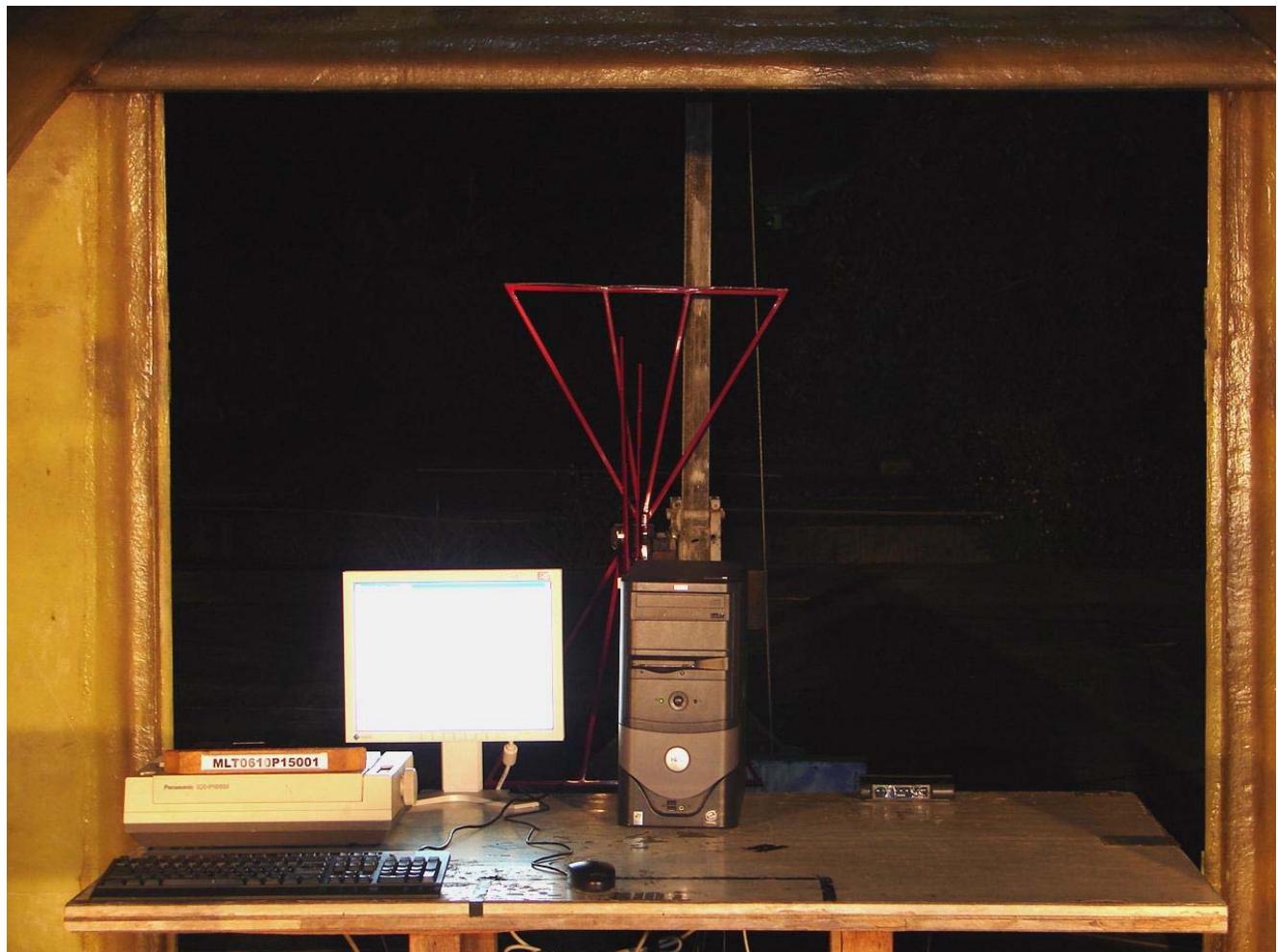
(1) For fundamental frequency : Transmitter Output < +30dBm

(2) For spurious frequency : Spurious emission limits = fundamental emission limit /10

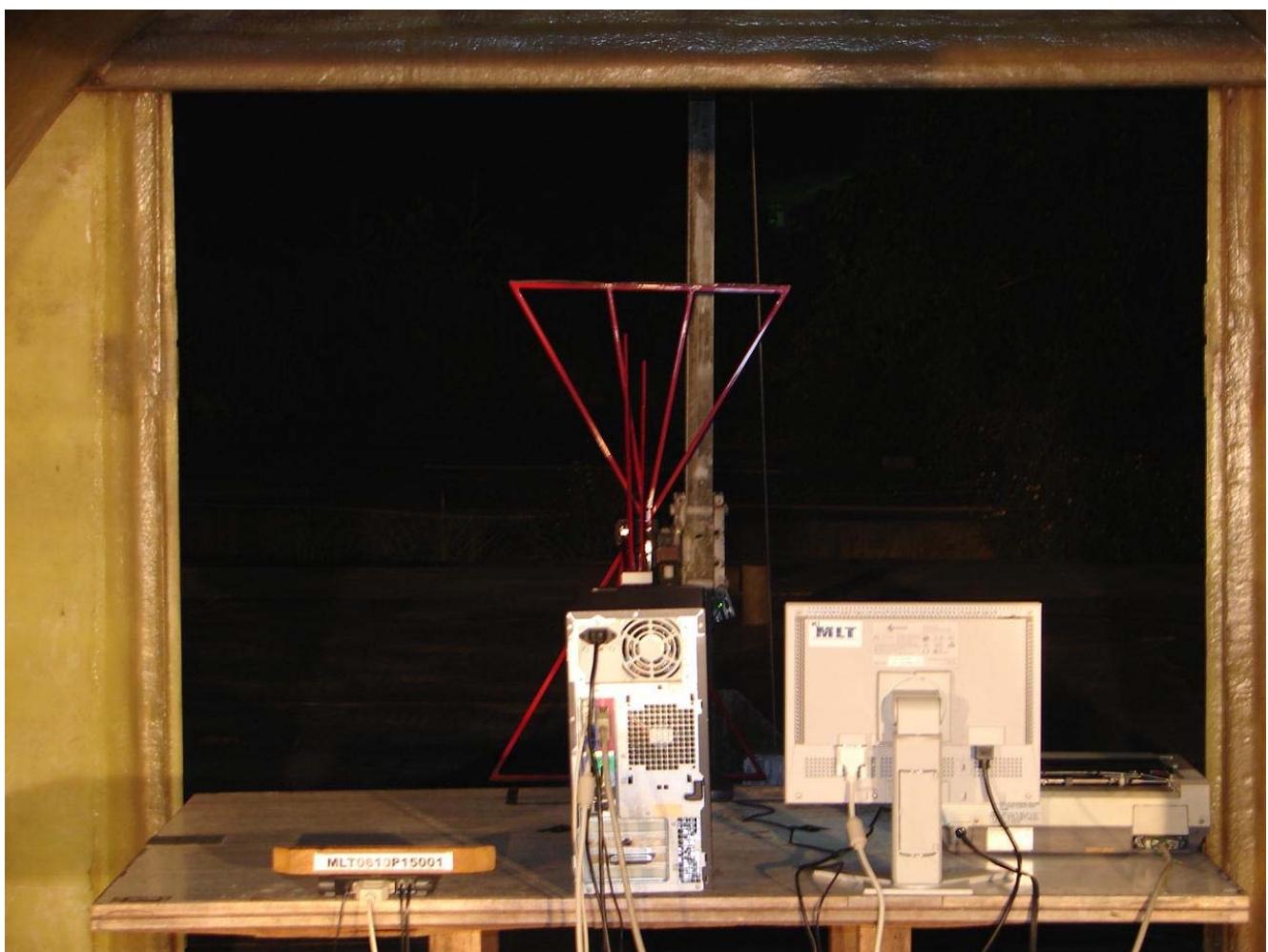
3.2 Test Equipment List:

Item	Mfr/Brand	Instruments	Serial No.	Model/Type No.	Calibrated Date	Next Cali. Date
1.	HP	Spectrum Analyzer	73412A00110	8591EM	2006/01/17	2007/01/17
2.	HP	Pre Amplifier	2944A08954	8447D	2006/04/14	2007/04/14
3.	HP	Pre Amplifier	3113A05475	8447F	2006/01/10	2007/01/10
4.	R&S	EMI Receiver	881121/010	354.3000.52	2005/12/10	2006/12/10
5.	EMCO	Biconilog Antenna	1184	3142	2006/02/03	2007/02/03
6.	Agilent	Spectrum Analyzer	US39240419	E4407B	2006/02/01	2007/02/01
7.	HP	Pre Amplifier	3008A01463	8449B	2006/02/23	2007/02/23
8.	SCHWARZBECK	Horn Antenna	181	BBHA 9170	2006/07/06	2007/07/06
9.	SCHWARZBECK	Horn Antenna	304	BBHA 9120 D	2006/07/06	2007/07/06

3.3 Test Configuration:



Front View of The Test Configuration



Rear View of The Test Configuration

3.4 Test condition:

EUT tested in accordance with the specifications given by the manufacturer , and exercised in the most unfavorable manner.

3.5 Radiated Emissions Limits:

Frequency range (MHz)	Peak(dBuV/m)
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960	54

3.6 Measurement Data Of Radiated Emissions:

3.6.1 Open Field Radiated Emissions (Subpart B)

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

Applicant : Amigo Technology Inc.
 Model No : AWP-914T (The other see Appendix II)
 EUT : 802.11b/g wireless Cardbus PC Card
 Test Mode : 802.11b (CH11)

Radiated Emissions (HORIZONTAL)					
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Limits(Class B) (dBuV/m)	Margin (dB)
132.29	24.08	2.1	250	43.5	-19.42
166.35	25.29	2	300	43.5	-18.21
200.00	24.85	1	140	43.5	-18.65
233.23	27.82	1.5	200	46	-18.18
431.38	29.36	1.3	290	46	-16.64
499.28	29.09	1	320	46	-16.91
519.10	27.69	1	240	46	-18.31
645.14	32.37	1	210	46	-13.63
715.10	29.77	1	280	46	-16.23
815.20	30.39	1	330	46	-15.61
864.27	33.03	1	160	46	-12.97

Notes : 1. Margin= Amplitude - Limits

2. Distance of Measurement : 3 Meter (30-1000MHz)
3. Height of table for EUT placed: 0.8 Meter.
4. ANT= Antenna height.
5. Amplitude= Reading Amplitude –Amplifier gain + Cable loss + Antenna factor
(Auto calculate in spectrum analyzer)

3.6.2 Open Field Radiated Emissions (Subpart B)

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

Applicant : Amigo Technology Inc.
 Model No : AWP-914T (The other see Appendix II)
 EUT : 802.11b/g wireless Cardbus PC Card
 Test Mode : 802.11b (CH06)

Radiated Emissions (VERTICAL)					
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Limits(Class B) (dBuV/m)	Margin (dB)
30.27	25.60	1	230	40	-14.40
132.03	24.01	1.5	80	43.5	-19.49
165.97	23.18	1	270	43.5	-20.32
200.00	22.05	2	320	43.5	-21.45
433.09	31.94	1.5	110	46	-14.06
449.99	32.12	1	160	46	-13.88
641.77	27.78	1	300	46	-18.22
664.00	27.65	2	240	46	-18.35
795.60	29.62	2	160	46	-16.38
865.60	33.53	1	190	46	-12.47
928.60	33.93	1	70	46	-12.07

Notes :

1. Margin= Amplitude - Limits
2. Distance of Measurement : 3 Meter (30-1000MHz)
3. Height of table for EUT placed: 0.8 Meter.
4. ANT= Antenna height.
5. Amplitude= Reading Amplitude –Amplifier gain + Cable loss + Antenna factor
(Auto calculate in spectrum analyzer)

3.6.3 Open Field Radiated Emissions (Subpart B)

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

Applicant : Amigo Technology Inc.
 Model No : AWP-914T (The other see Appendix II)
 EUT : 802.11b/g wireless Cardbus PC Card
 Test Mode : 802.11g (CH11)

Radiated Emissions (HORIZONTAL)					
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Limits(Class B) (dBuV/m)	Margin (dB)
47.55	24.78	1.5	220	40	-15.22
126.13	25.81	1	250	43.5	-17.69
166.57	25.30	2	120	43.5	-18.20
431.40	30.00	1.7	140	46	-16.00
466.46	28.00	1	300	46	-18.00
479.10	29.80	1	100	46	-16.20
499.28	28.06	1	60	46	-17.94
601.41	31.35	1	320	46	-14.65
815.20	29.92	1	290	46	-16.08
864.10	33.37	1	200	46	-12.63
950.30	32.60	1	330	46	-13.40

Notes :

1. Margin= Amplitude - Limits
2. Distance of Measurement : 3 Meter (30-1000MHz)
3. Height of table for EUT placed: 0.8 Meter.
4. ANT= Antenna height.
5. Amplitude= Reading Amplitude –Amplifier gain + Cable loss + Antenna factor
(Auto calculate in spectrum analyzer)

3.6.4 Open Field Radiated Emissions (Subpart B)

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

Applicant : Amigo Technology Inc.
 Model No : AWP-914T (The other see Appendix II)
 EUT : 802.11b/g wireless Cardbus PC Card
 Test Mode : 802.11g (CH11)

Radiated Emissions (VERTICAL)					
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Limits(Class B) (dBuV/m)	Margin (dB)
30.34	24.30	1	200	40	-15.70
92.91	24.26	1	90	43.5	-19.24
146.37	24.10	1	320	43.5	-19.40
166.35	23.93	1.6	130	43.5	-19.57
200.02	21.85	1	220	43.5	-21.65
298.68	29.09	1.7	70	46	-16.91
431.38	33.09	1.4	140	46	-12.91
450.00	29.70	2	260	46	-16.30
769.00	29.91	1	120	46	-16.09
799.10	29.78	1	180	46	-16.22
864.20	32.51	1	60	46	-13.49

Notes :
 1. Margin= Amplitude - Limits
 2. Distance of Measurement : 3 Meter (30-1000MHz)
 3. Height of table for EUT placed: 0.8 Meter.
 4. ANT= Antenna height.
 5. Amplitude= Reading Amplitude –Amplifier gain + Cable loss + Antenna factor
 (Auto calculate in spectrum analyzer)

3.6.7 Open Field Radiated Emissions (Subpart C)

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

Applicant : Amigo Technology Inc.
 Model No : AWP-914T (The other see Appendix II)
 EUT : 802.11b/g wireless Cardbus PC Card
 Test Mode : 802.11b (CH01)

Radiated Emissions (HORIZONTAL)									
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1102.5	49.00	PK	1	240	0	9.54	39.46	74.00	-34.54
1227.5	47.56	PK	1	200	0	9.54	38.02	74.00	-35.98
1457.5	46.17	PK	1	320	0	9.54	36.63	74.00	-37.37
1720.0	49.76	PK	1	310	0	9.54	40.22	74.00	-33.78
2252.5	49.22	PK	1	70	0	9.54	39.68	74.00	-34.32
4827.5	57.72	AV	1	210	0	9.54	48.18	54.00	-5.82
9644.0	59.00	PK	1	290	0	9.54	49.46	74.00	-24.54

Notes : 1. Margin= Amplitude - Limits

2. Distance of Measurement : 1 Meter (1G-26.5GHz)
3. Height of table for EUT placed: 0.8 Meter.
4. ANT= Antenna height.
5. Duty= Duty cycle correction factor.
6. Dist= Distance extrapolation factor.
7. Amplitude= Reading Amplitude – Amplifier gain + Cable loss + Antenna factor
(Auto calculate in spectrum analyzer)
8. Actual Amp= Amplitude – Duty – Dist.
9. The other emission levels were very low against the limit.

3.6.8 Open Field Radiated Emissions (Subpart C)

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

Applicant : Amigo Technology Inc.
 Model No : AWP-914T (The other see Appendix II)
 EUT : 802.11b/g wireless Cardbus PC Card
 Test Mode : 802.11b (CH01)

Radiated Emissions (VERTICAL)									
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1000.0	54.28	PK	1	190	0	9.54	44.74	74.00	-29.26
1595.0	55.33	PK	1	300	0	9.54	45.79	74.00	-28.21
1990.0	54.92	PK	1	270	0	9.54	45.38	74.00	-28.62
2590.0	54.92	PK	1	200	0	9.54	45.38	74.00	-28.62
4827.5	58.68	AV	1	250	0	9.54	49.14	54.00	-4.86
7235.0	52.39	PK	1	140	0	9.54	42.85	74.00	-31.15
9644.0	59.75	AV	1	160	0	9.54	50.21	54.00	-3.79

Notes : 1. Margin= Amplitude - Limits

2. Distance of Measurement : 1 Meter (1G-26.5GHz)

3. Height of table for EUT placed: 0.8 Meter.

4. ANT= Antenna height.

5. Duty= Duty cycle correction factor.

6. Dist= Distance extrapolation factor.

7. Amplitude= Reading Amplitude – Amplifier gain + Cable loss + Antenna factor
(Auto calculate in spectrum analyzer)

8. Actual Amp= Amplitude – Duty – Dist.

9. The other emission levels were very low against the limit.

3.6.9 Open Field Radiated Emissions (Subpart C)

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

Applicant : Amigo Technology Inc.
 Model No : AWP-914T (The other see Appendix II)
 EUT : 802.11b/g wireless Cardbus PC Card
 Test Mode : 802.11b (CH06)

Radiated Emissions (HORIZONTAL)									
Frequency (MHz)	Amplitude (dBuV/m)		Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1102.5	50.38	PK	1	220	0	9.54	40.84	74.00	-33.16
1227.5	46.71	PK	1	300	0	9.54	37.17	74.00	-36.83
1720.0	50.93	PK	1	120	0	9.54	41.39	74.00	-32.61
2127.5	50.47	PK	1	90	0	9.54	40.93	74.00	-33.07
2252.5	49.24	PK	1	190	0	9.54	39.70	74.00	-34.30
4872.5	59.82	PK	1	300	0	9.54	50.28	74.00	-23.72
9744.0	59.81	AV	1	260	0	9.54	50.27	54.00	-3.73

Notes : 1. Margin= Amplitude - Limits

2. Distance of Measurement : 1 Meter (1G-26.5GHz)
3. Height of table for EUT placed: 0.8 Meter.
4. ANT= Antenna height.
5. Duty= Duty cycle correction factor.
6. Dist= Distance extrapolation factor.
7. Amplitude= Reading Amplitude – Amplifier gain + Cable loss + Antenna factor
(Auto calculate in spectrum analyzer)
8. Actual Amp= Amplitude – Duty – Dist.
9. The other emission levels were very low against the limit.

3.6.10 Open Field Radiated Emissions (Subpart C)

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

Applicant : Amigo Technology Inc.
 Model No : AWP-914T (The other see Appendix II)
 EUT : 802.11b/g wireless Cardbus PC Card
 Test Mode : 802.11b (CH06)

Radiated Emissions (VERTICAL)									
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1127.5	48.69	PK	1	300	0	9.54	39.15	74.00	-34.85
1595.0	55.67	PK	1	320	0	9.54	46.13	74.00	-27.87
1990.0	55.29	PK	1	70	0	9.54	45.75	74.00	-28.25
2595.0	53.21	PK	1	160	0	9.54	43.67	74.00	-30.33
4872.5	57.34	AV	1	280	0	9.54	47.80	54.00	-6.20
7307.0	50.62	PK	1	240	0	9.54	41.08	74.00	-32.92
9744.0	56.60	PK	1	310	0	9.54	47.06	74.00	-26.94

Notes : 1. Margin= Amplitude - Limits

2. Distance of Measurement : 1 Meter (1G-26.5GHz)

3. Height of table for EUT placed: 0.8 Meter.

4. ANT= Antenna height.

5. Duty= Duty cycle correction factor.

6. Dist= Distance extrapolation factor.

7. Amplitude= Reading Amplitude – Amplifier gain + Cable loss + Antenna factor
(Auto calculate in spectrum analyzer)

8. Actual Amp= Amplitude – Duty – Dist.

9. The other emission levels were very low against the limit.

3.6.11 Open Field Radiated Emissions (Subpart C)

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

Applicant : Amigo Technology Inc.
 Model No : AWP-914T (The other see Appendix II)
 EUT : 802.11b/g wireless Cardbus PC Card
 Test Mode : 802.11b (CH11)

Radiated Emissions (HORIZONTAL)									
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1102.5	48.15	PK	1	240	0	9.54	38.61	74.00	-35.39
1232.5	46.36	PK	1	100	0	9.54	36.82	74.00	-37.18
1332.5	49.41	PK	1	310	0	9.54	39.87	74.00	-34.13
1720.0	46.97	PK	1	190	0	9.54	37.43	74.00	-36.57
2162.5	48.25	PK	1	250	0	9.54	38.71	74.00	-35.29
4922.0	59.77	PK	1	270	0	9.54	50.23	74.00	-23.77
9844.0	57.23	AV	1	230	0	9.54	47.69	54.00	-6.31

Notes : 1. Margin= Amplitude - Limits

2. Distance of Measurement : 1 Meter (1G-26.5GHz)

3. Height of table for EUT placed: 0.8 Meter.

4. ANT= Antenna height.

5. Duty= Duty cycle correction factor.

6. Dist= Distance extrapolation factor.

7. Amplitude= Reading Amplitude – Amplifier gain + Cable loss + Antenna factor
(Auto calculate in spectrum analyzer)

8. Actual Amp= Amplitude – Duty – Dist.

9. The other emission levels were very low against the limit.

3.6.12 Open Field Radiated Emissions (Subpart C)

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

Applicant : Amigo Technology Inc.
 Model No : AWP-914T (The other see Appendix II)
 EUT : 802.11b/g wireless Cardbus PC Card
 Test Mode : 802.11b (CH11)

Radiated Emissions (VERTICAL)									
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1127.5	48.32	PK	1	320	0	9.54	38.78	74.00	-35.22
1200.0	48.47	PK	1	80	0	9.54	38.93	74.00	-35.07
1332.5	48.34	PK	1	260	0	9.54	38.80	74.00	-35.20
1595.0	56.06	PK	1	100	0	9.54	46.52	74.00	-27.48
2000.0	54.31	PK	1	280	0	9.54	44.77	74.00	-29.23
4922.0	58.36	PK	1	190	0	9.54	48.82	74.00	-25.18
9844.0	59.74	PK	1	60	0	9.54	50.20	74.00	-23.80

Notes : 1. Margin= Amplitude - Limits

2. Distance of Measurement : 1 Meter (1G-26.5GHz)

3. Height of table for EUT placed: 0.8 Meter.

4. ANT= Antenna height.

5. Duty= Duty cycle correction factor.

6. Dist= Distance extrapolation factor.

7. Amplitude= Reading Amplitude – Amplifier gain + Cable loss + Antenna factor
(Auto calculate in spectrum analyzer)

8. Actual Amp= Amplitude – Duty – Dist.

9. The other emission levels were very low against the limit.

3.6.13 Open Field Radiated Emissions (Subpart C)

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

Applicant : Amigo Technology Inc.
 Model No : AWP-914T (The other see Appendix II)
 EUT : 802.11b/g wireless Cardbus PC Card
 Test Mode : 802.11g (CH01)

Radiated Emissions (HORIZONTAL)									
Frequency (MHz)	Amplitude (dBuV/m)	Ant.	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1102.5	49.32	PK	1	300	0	9.54	39.78	74.00	-34.22
1232.5	46.80	PK	1	250	0	9.54	37.26	74.00	-36.74
1720.0	51.65	PK	1	120	0	9.54	42.11	74.00	-31.89
1990.0	47.29	PK	1	190	0	9.54	37.75	74.00	-36.25
2252.5	48.46	PK	1	100	0	9.54	38.92	74.00	-35.08
4827.5	49.63	PK	1	270	0	9.54	40.09	74.00	-33.91
9640.0	52.44	PK	1	180	0	9.54	42.90	74.00	-31.10

Notes : 1. Margin= Amplitude - Limits

2. Distance of Measurement : 1 Meter (1G-26.5GHz)
3. Height of table for EUT placed: 0.8 Meter.
4. ANT= Antenna height.
5. Duty= Duty cycle correction factor.
6. Dist= Distance extrapolation factor.
7. Amplitude= Reading Amplitude – Amplifier gain + Cable loss + Antenna factor
(Auto calculate in spectrum analyzer)
8. Actual Amp= Amplitude – Duty – Dist.
9. The other emission levels were very low against the limit.

3.6.14 Open Field Radiated Emissions (Subpart C)

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

Applicant : Amigo Technology Inc.
Model No : AWP-914T (The other see Appendix II)
EUT : 802.11b/g wireless Cardbus PC Card
Test Mode : 802.11g (CH01)

Radiated Emissions (VERTICAL)									
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table Degree	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1095.0	51.62	PK	1	300	0	9.54	42.08	74.00	-31.92
1595.0	55.67	PK	1	100	0	9.54	46.13	74.00	-27.87
2000.0	53.87	PK	1	210	0	9.54	44.33	74.00	-29.67
2590.0	54.74	PK	1	140	0	9.54	45.20	74.00	-28.80
4827.5	51.92	PK	1	180	0	9.54	42.38	74.00	-31.62
7235.0	50.99	PK	1	300	0	9.54	41.45	74.00	-32.55
9644.0	54.13	PK	1	230	0	9.54	44.59	74.00	-29.41

Notes : 1. Margin = Amplitude - Limits

2. Distance of Measurement : 1 Meter (1G-26.5GHz)

3. Height of table for EUT placed: 0.8 Meter.

4. ANT= Antenna height.

5.Duty= Duty cycle correction factor.

6. Dist= Distance extrapolation factor.

7. Amplitude = Reading Amplitude – Amplifier gain + Cable loss + Antenna factor
(Auto calculate in spectrum analyzer)

8. Actual Amp= Amplitude – Duty – Dist.

9. The other emission levels were very low against the limit.

3.6.15 Open Field Radiated Emissions (Subpart C)

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

Applicant : Amigo Technology Inc.
 Model No : AWP-914T (The other see Appendix II)
 EUT : 802.11b/g wireless Cardbus PC Card
 Test Mode : 802.11g (CH06)

Radiated Emissions (HORIZONTAL)									
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1102.5	48.97	PK	1	290	0	9.54	39.43	74.00	-34.57
1227.5	46.40	PK	1	270	0	9.54	36.86	74.00	-37.14
1687.5	45.88	PK	1	200	0	9.54	36.34	74.00	-37.66
1720.0	50.91	PK	1	160	0	9.54	41.37	74.00	-32.63
2252.5	49.22	PK	1	350	0	9.54	39.68	74.00	-34.32
4872.5	49.01	PK	1	120	0	9.54	39.47	74.00	-34.53
9744.0	53.10	PK	1	100	0	9.54	43.56	74.00	-30.44

Notes : 1. Margin= Amplitude - Limits

2. Distance of Measurement : 1 Meter (1G-26.5GHz)
3. Height of table for EUT placed: 0.8 Meter.
4. ANT= Antenna height.
5. Duty= Duty cycle correction factor.
6. Dist= Distance extrapolation factor.
7. Amplitude= Reading Amplitude – Amplifier gain + Cable loss + Antenna factor
(Auto calculate in spectrum analyzer)
8. Actual Amp= Amplitude – Duty – Dist.
9. The other emission levels were very low against the limit.

3.6.16 Open Field Radiated Emissions (Subpart C)

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

Applicant : Amigo Technology Inc.
 Model No : AWP-914T (The other see Appendix II)
 EUT : 802.11b/g wireless Cardbus PC Card
 Test Mode : 802.11g (CH06)

Radiated Emissions (VERTICAL)									
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1132.5	48.94	PK	1	120	0	9.54	39.40	74.00	-34.60
1200.0	48.81	PK	1	300	0	9.54	39.27	74.00	-34.73
1332.5	49.58	PK	1	270	0	9.54	40.04	74.00	-33.96
1595.0	55.83	PK	1	340	0	9.54	46.29	74.00	-27.71
2000.0	53.67	PK	1	160	0	9.54	44.13	74.00	-29.87
4872.5	51.58	PK	1	290	0	9.54	42.04	74.00	-31.96
9752.0	53.90	PK	1	150	0	9.54	44.36	74.00	-29.64

Notes : 1. Margin= Amplitude - Limits

2. Distance of Measurement : 1 Meter (1G-26.5GHz)
3. Height of table for EUT placed: 0.8 Meter.
4. ANT= Antenna height.
5. Duty= Duty cycle correction factor.
6. Dist= Distance extrapolation factor.
7. Amplitude= Reading Amplitude – Amplifier gain + Cable loss + Antenna factor
(Auto calculate in spectrum analyzer)
8. Actual Amp= Amplitude – Duty – Dist.
9. The other emission levels were very low against the limit.

3.6.17 Open Field Radiated Emissions (Subpart C)

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

Applicant : Amigo Technology Inc.
Model No : AWP-914T (The other see Appendix II)
EUT : 802.11b/g wireless Cardbus PC Card
Test Mode : 802.11g (CH11)

Radiated Emissions (HORIZONTAL)									
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1102.5	48.63	PK	1	260	0	9.54	39.09	74.00	-34.91
1232.5	46.59	PK	1	300	0	9.54	37.05	74.00	-36.95
1687.5	45.48	PK	1	140	0	9.54	35.94	74.00	-38.06
1987.5	46.39	PK	1	240	0	9.54	36.85	74.00	-37.15
2145.0	47.89	PK	1	280	0	9.54	38.35	74.00	-35.65
4922.0	48.47	PK	1	210	0	9.54	38.93	74.00	-35.07
9844.0	46.88	PK	1	200	0	9.54	37.34	74.00	-36.66

Notes : 1. Margin = Amplitude - Limits

2. Distance of Measurement : 1 Meter (1G-26.5GHz)

3. Height of table for EUT placed: 0.8 Meter.

4. ANT= Antenna height.

5.Duty= Duty cycle correction factor.

6. Dist= Distance extrapolation factor.

7. Amplitude = Reading Amplitude – Amplifier gain + Cable loss + Antenna factor
(Auto calculate in spectrum analyzer)

8. Actual Amp = Amplitude – Duty – Dist.

9. The other emission levels were very low against the limit.

3.6.18 Open Field Radiated Emissions (Subpart C)

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

Applicant : Amigo Technology Inc.
 Model No : AWP-914T (The other see Appendix II)
 EUT : 802.11b/g wireless Cardbus PC Card
 Test Mode : 802.11g (CH11)

Radiated Emissions (VERTICAL)									
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1127.5	48.44	PK	1	110	0	9.54	38.90	74.00	-35.10
1332.5	48.42	PK	1	350	0	9.54	38.88	74.00	-35.12
1595.0	55.47	PK	1	120	0	9.54	45.93	74.00	-28.07
1990.0	54.64	PK	1	160	0	9.54	45.10	74.00	-28.90
2587.5	52.19	PK	1	270	0	9.54	42.65	54.00	-11.35
4922.0	51.81	PK	1	220	0	9.54	42.27	74.00	-31.73
9844.0	53.76	PK	1	280	0	9.54	44.22	74.00	-29.78

Notes : 1. Margin= Amplitude - Limits

2. Distance of Measurement : 1 Meter (1G-26.5GHz)
3. Height of table for EUT placed: 0.8 Meter.
4. ANT= Antenna height.
5. Duty= Duty cycle correction factor.
6. Dist= Distance extrapolation factor.
7. Amplitude= Reading Amplitude – Amplifier gain + Cable loss + Antenna factor
(Auto calculate in spectrum analyzer)
8. Actual Amp= Amplitude – Duty – Dist.
9. The other emission levels were very low against the limit.

IV. Maximum Conducted Output Power Requirements

4.1 Test Condition & Setup :

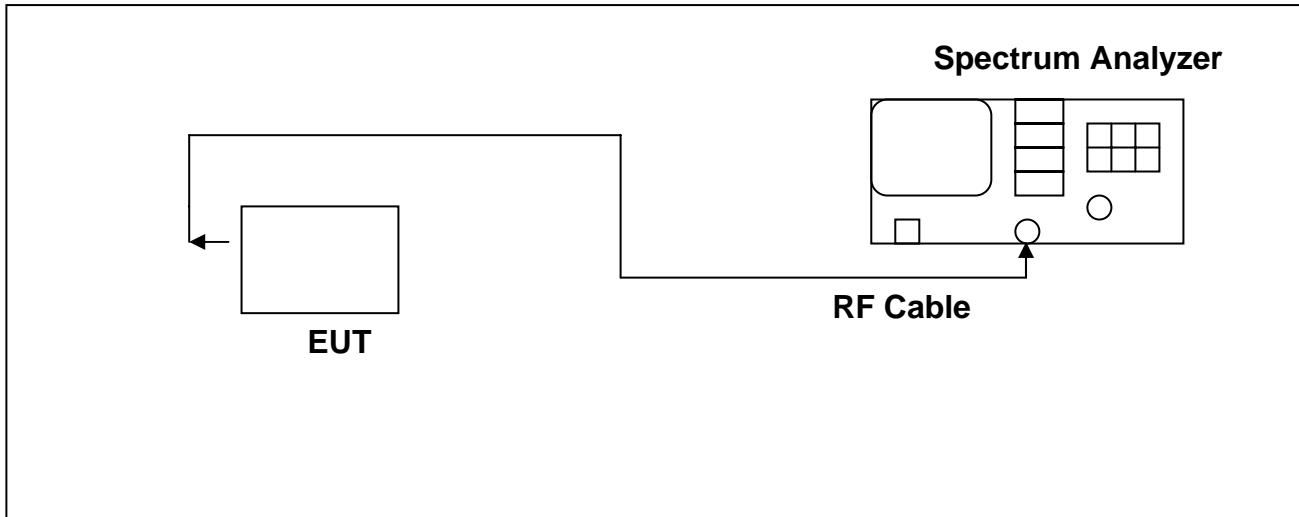
The tests below are run with the EUT's transmitter set at high power in TDD mode. A RJ-45 port from a computer to the EUT is needed to force selection of output power level and channel number. While testing, EUT was set to transmit continuously. Remove the Subjective device's antenna and connect the RF output port to spectrum analyzer. The maximum peak output power shall not exceed 1 watt.

Use a direct connection between the antenna port of transmitter and the spectrum Analyzer, for prevent the spectrum analyzer input attenuation 40-50 dB. Set the RBW Bandwidth of the emission or use a channel power meter mode .

For antennas with gains of 6 dBi or less , maximum allowed transmitter output is 1 watt (+30 dBm). For antennas with gains greater than 6 dBi, transmitter output level must be decreased by an amount equal to $(GAIN - 6)/3$ dBm.

The antenna port of the EUT was connected to the input of a power meter. Power was read directly and cable loss correction was added to the reading to obtain power at the EUT antenna terminals.

4.2 Test Instruments Configuration:



4.3 Test Equipment List:

Item	Mfr/Brand	Instruments	Serial No.	Model/Type No.	Calibrated Date	Next Cali. Date
1.	Agilent	Spectrum Analyzer	US39240419	E4407B	2006/02/01	2007/02/01

4.4 Test Result:

802.11b

Frequency (MHz)	Output(dBm)	Required Limit
2412	16.52	<30dBm
2437	16.34	<30dBm
2462	16.56	<30dBm

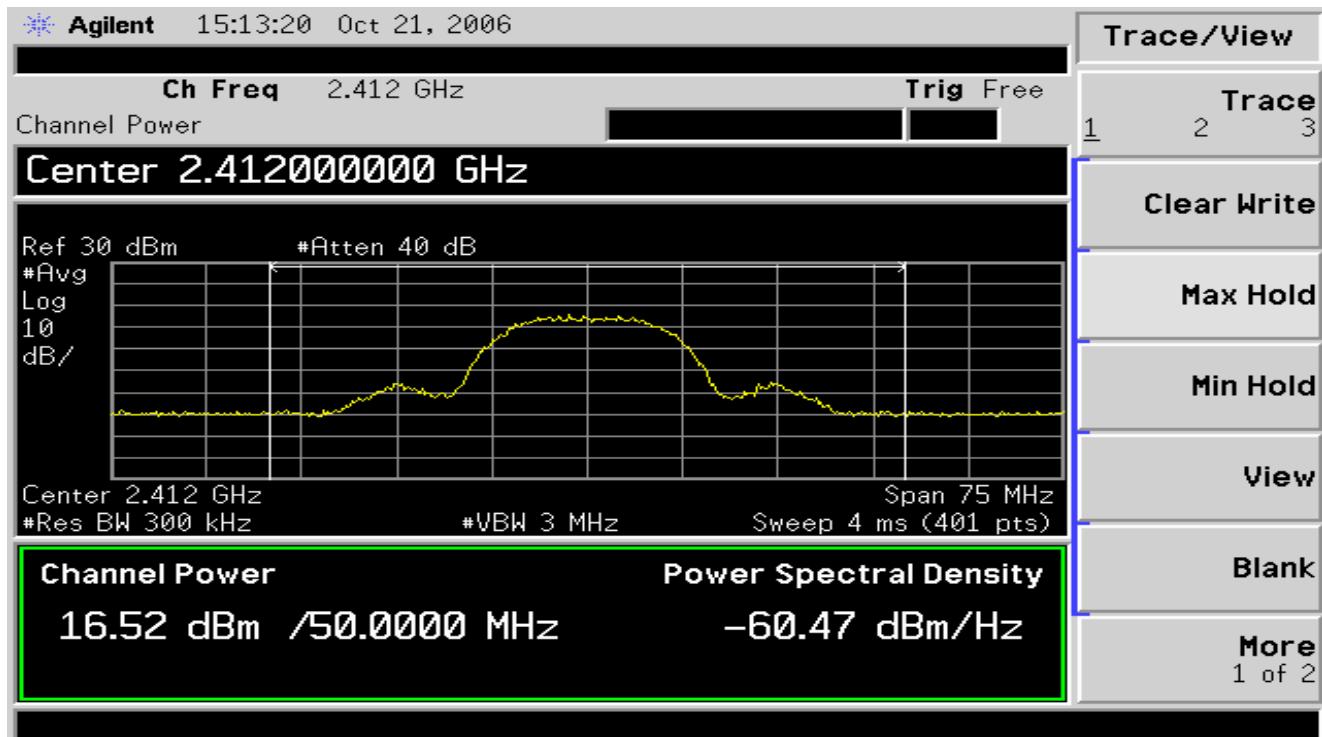
Note : Test Graphs See next page.

802.11g

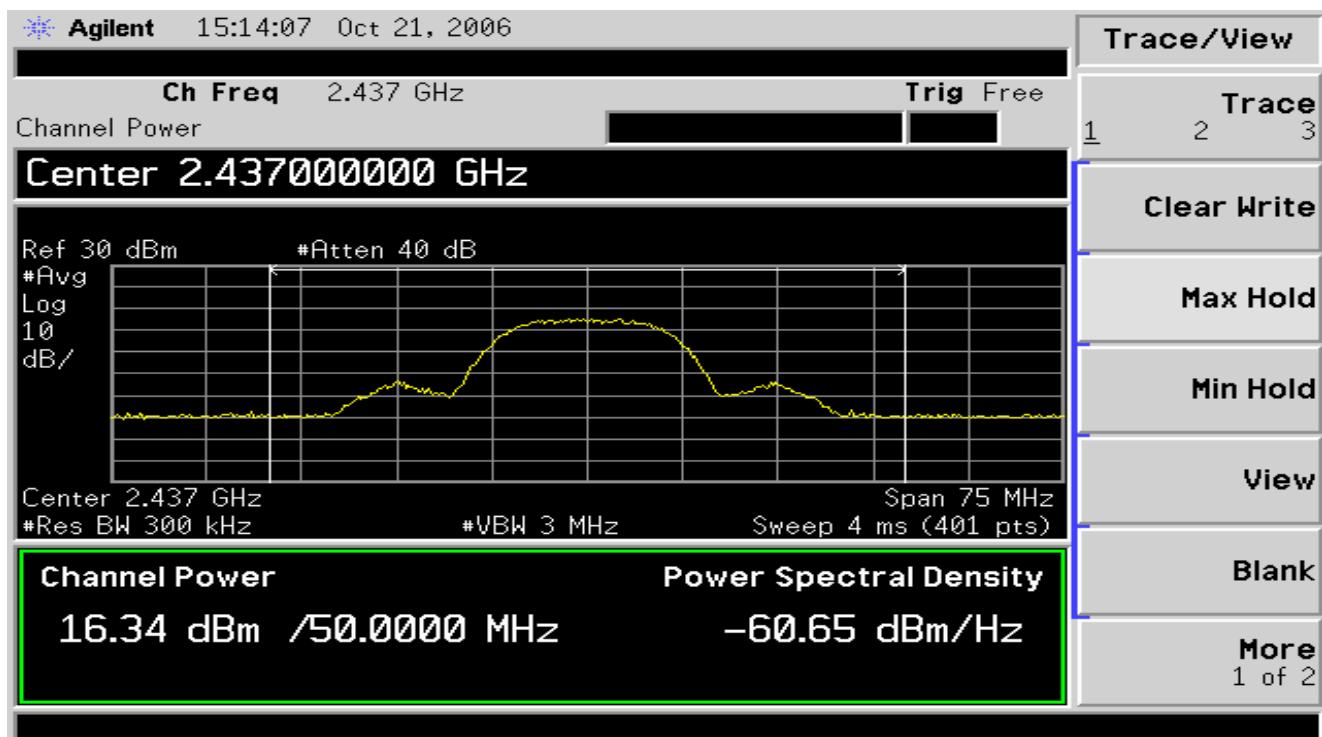
Frequency (MHz)	Output(dBm)	Required Limit
2412	10.17	<30dBm
2437	11.10	<30dBm
2462	11.80	<30dBm

Note : Test Graphs See next page.

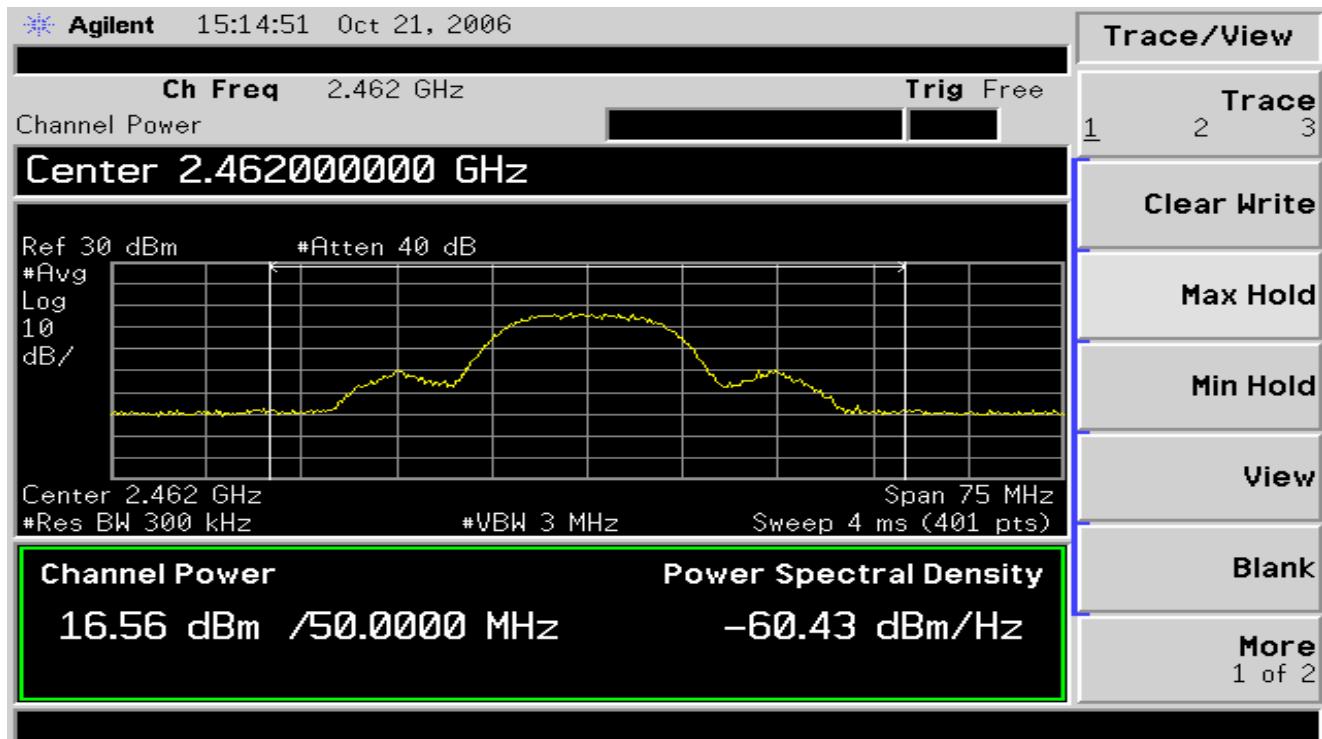
802.11b (2412MHz)



802.11b (2437MHz)



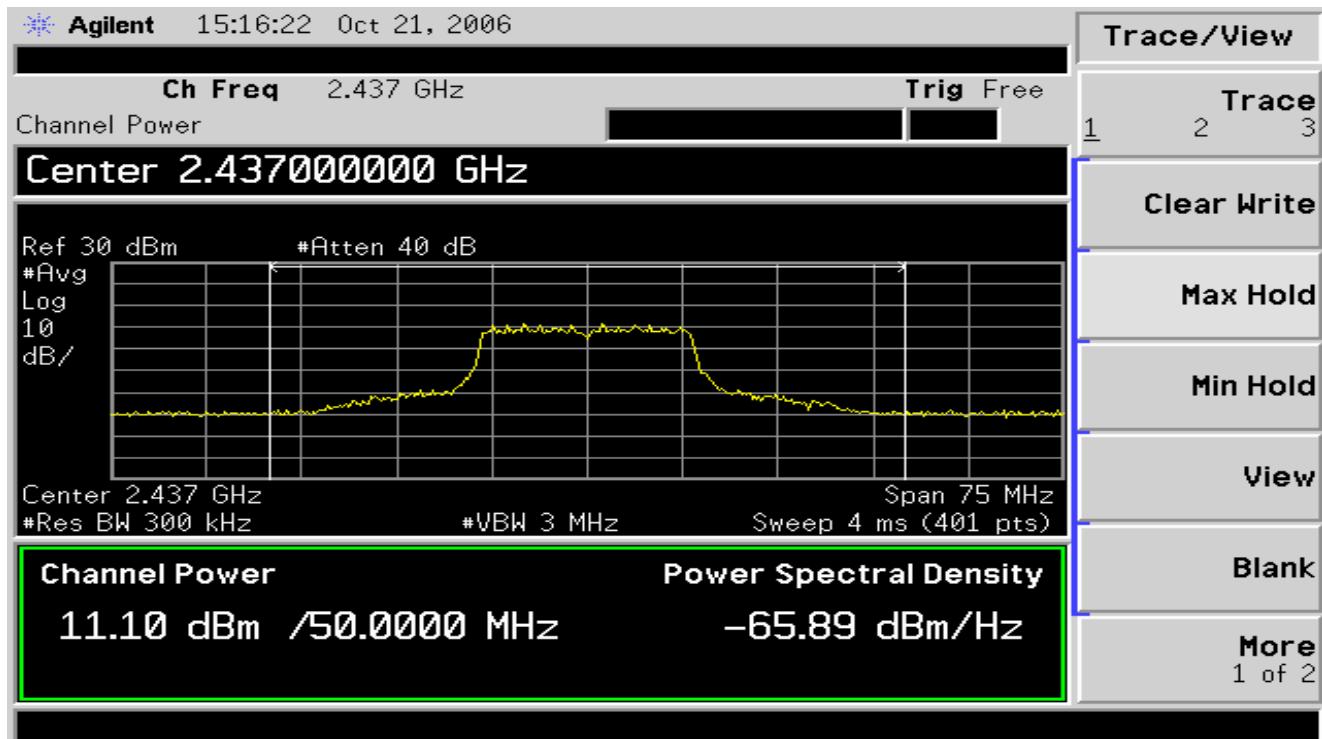
802.11b (2462MHz)



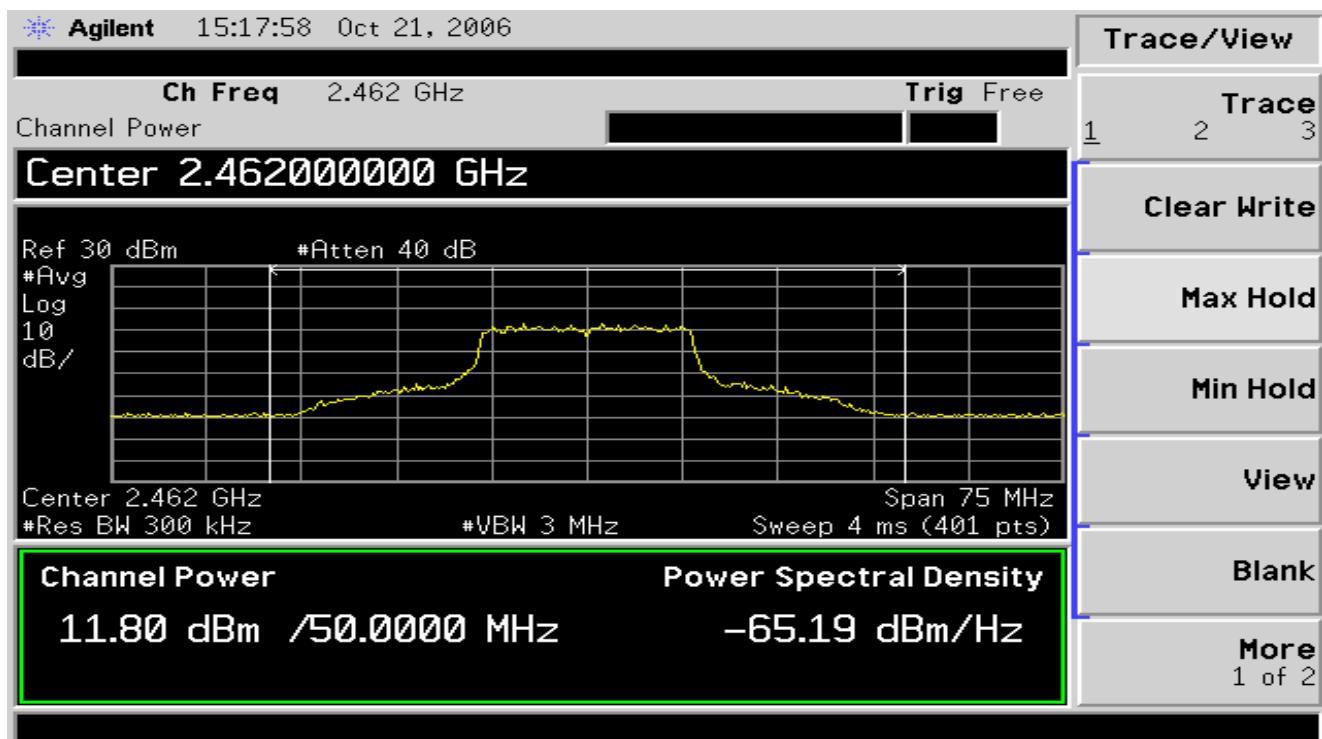
802.11g (2412MHz)



802.11g (2437MHz)



802.11g (2462MHz)

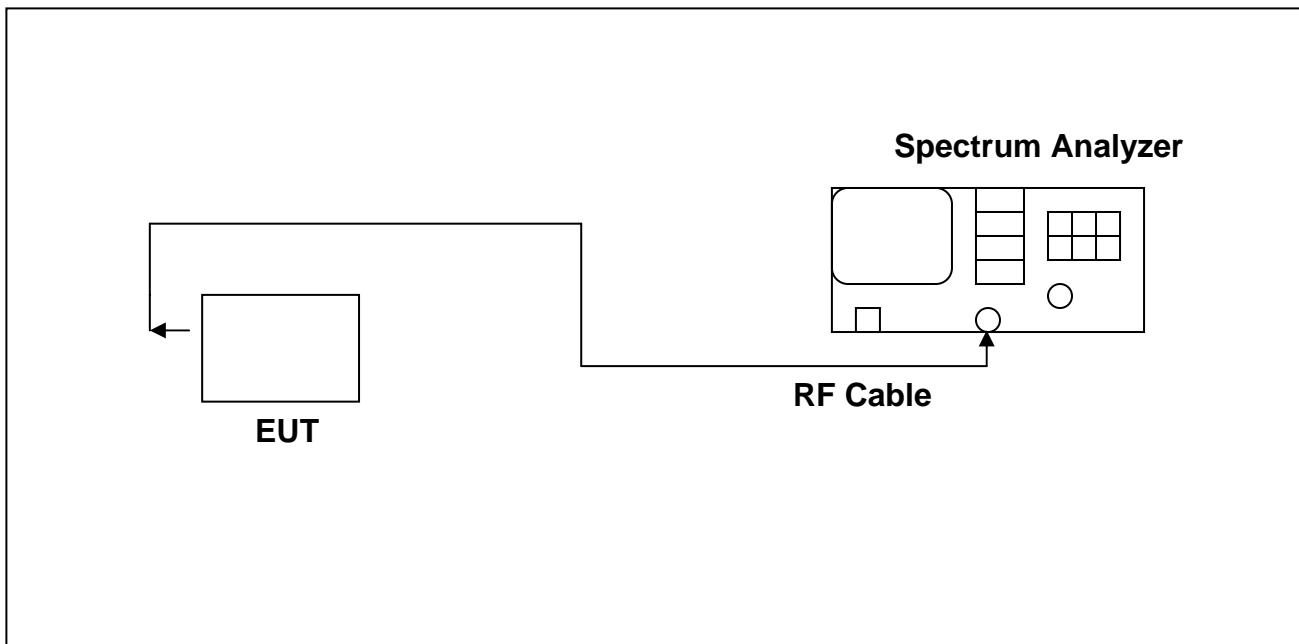


V. Minimum 6dB RF Bandwidth Requirements

5.1 Test Condition & Setup :

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was taken, a DISPLAY line was drawn 6 dB lower than PEAK level. The 6 dB bandwidth was determined from where the channel output spectrum intersected the display line.
 The test was performed at 3 channels (Channel 1, 6,11)

5.2 Test Instruments Configuration:



5.3 Test Equipment List:

Item	Mfr/Brand	Instruments	Serial No.	Model/Type No.	Calibrated Date	Next Cali. Date
1.	Agilent	Spectrum Analyzer	US39240419	E4407B	2006/02/01	2007/02/01

5.4 Test Result:

802.11b

Frequency (MHz)	Min. 6dB Bandwidth (MHz)	Required Limit
2412	11.25	>500KHz
2437	11.00	>500KHz
2462	11.00	>500KHz

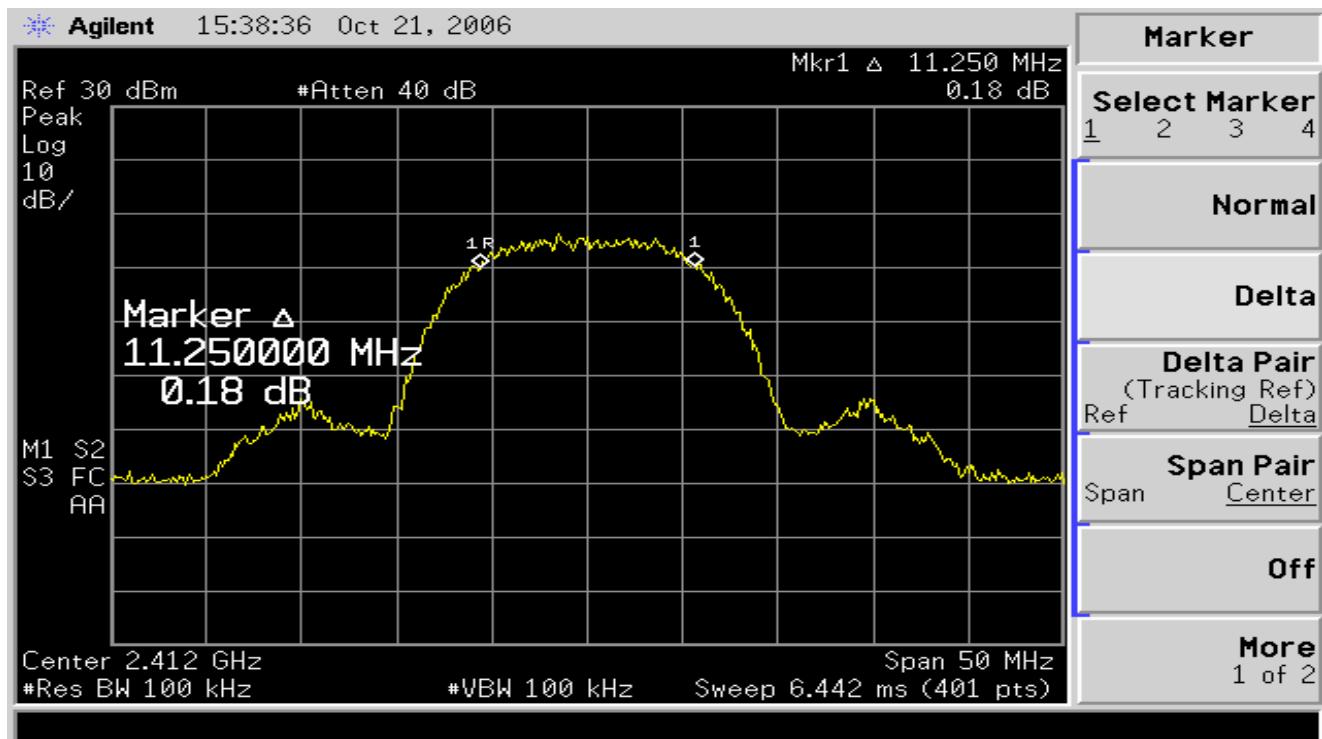
Note : Test Graphs See next page.

802.11g

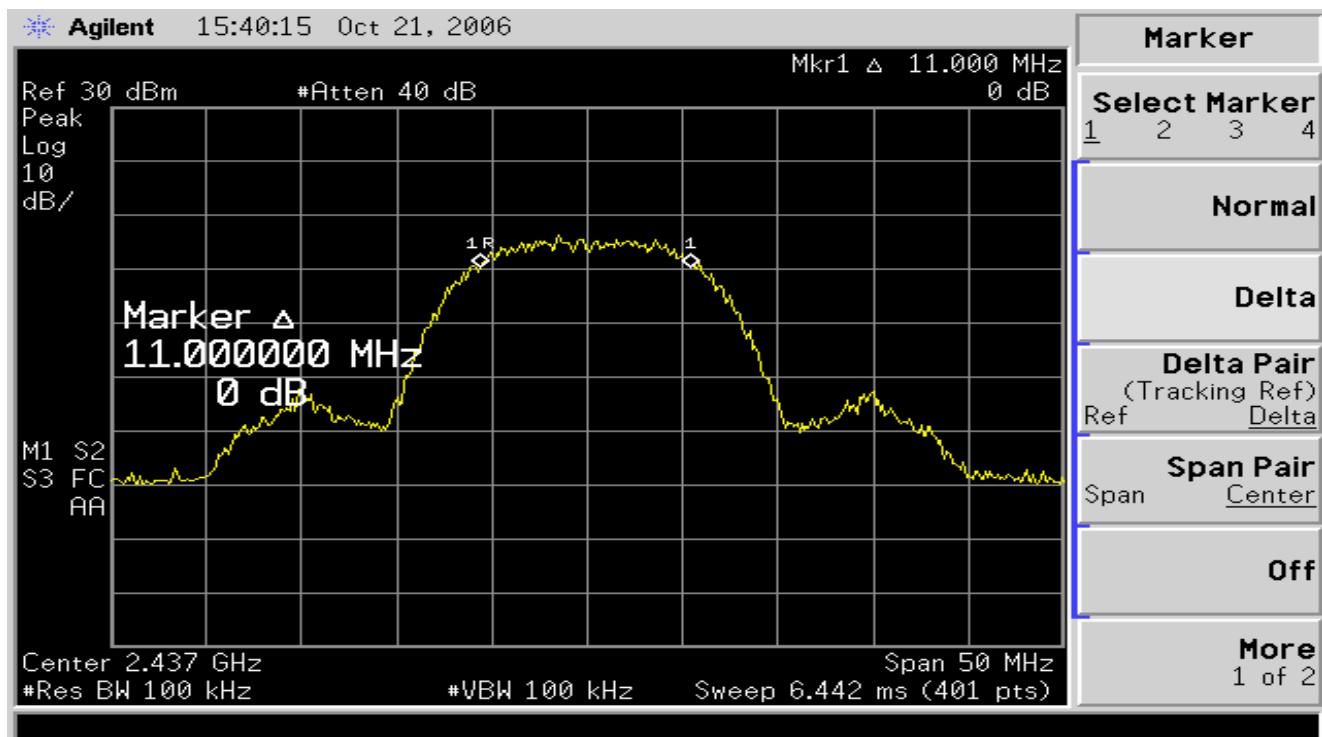
Frequency (MHz)	Min. 6dB Bandwidth (MHz)	Required Limit
2412	16.62	>500KHz
2437	16.62	>500KHz
2462	16.62	>500KHz

Note : Test Graphs See next page.

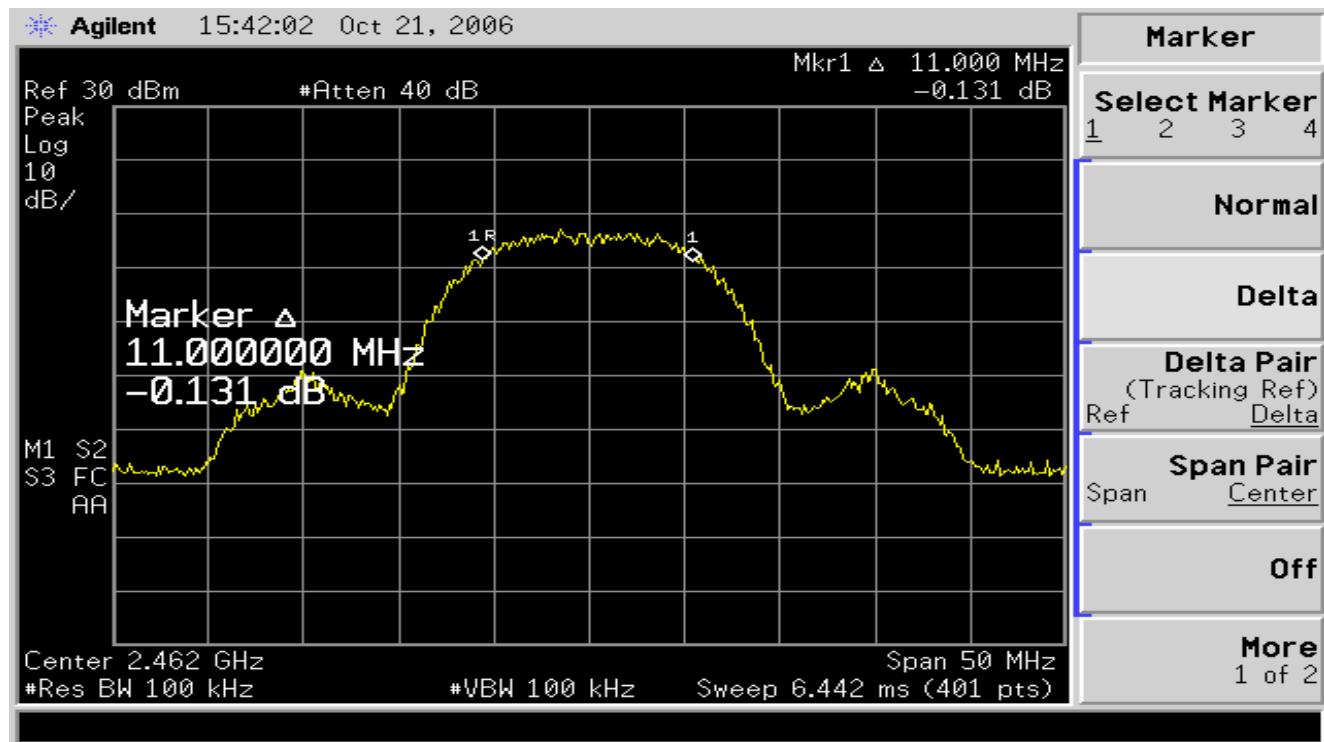
802.11b (2412MHz)



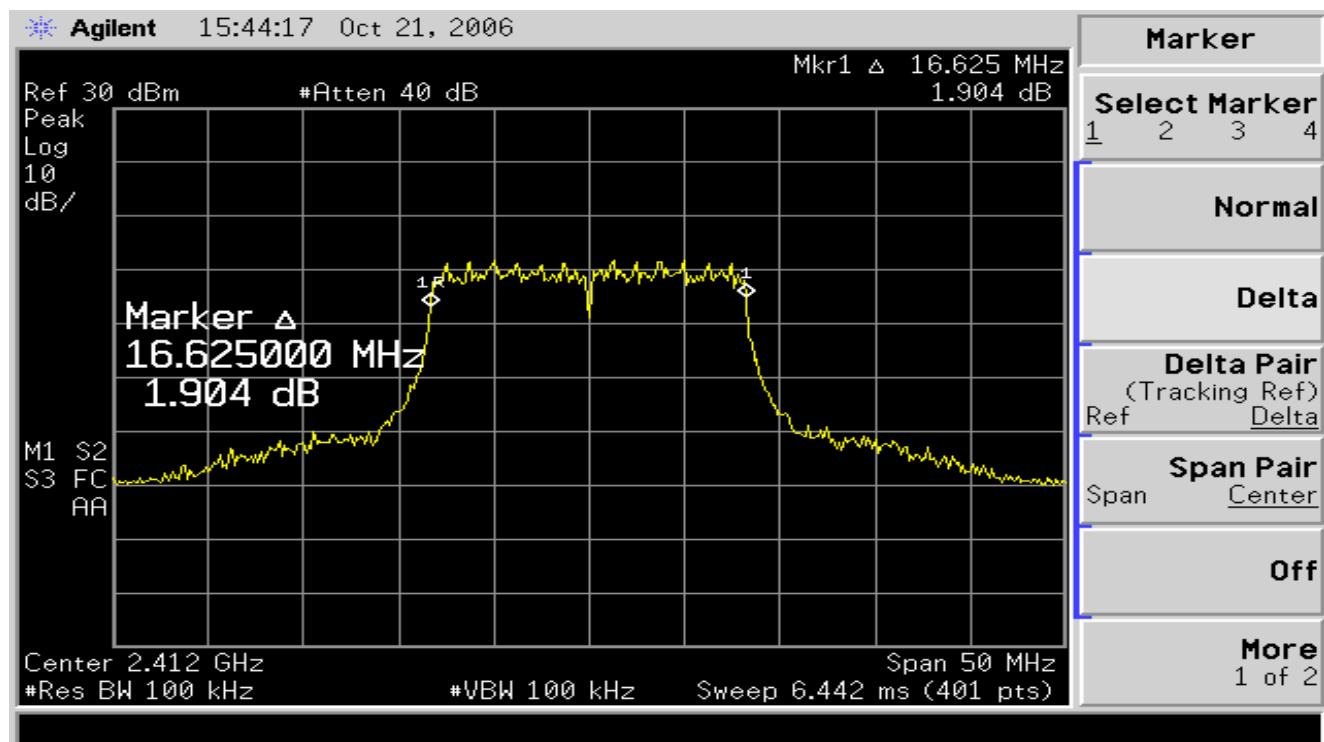
802.11b (2437MHz)



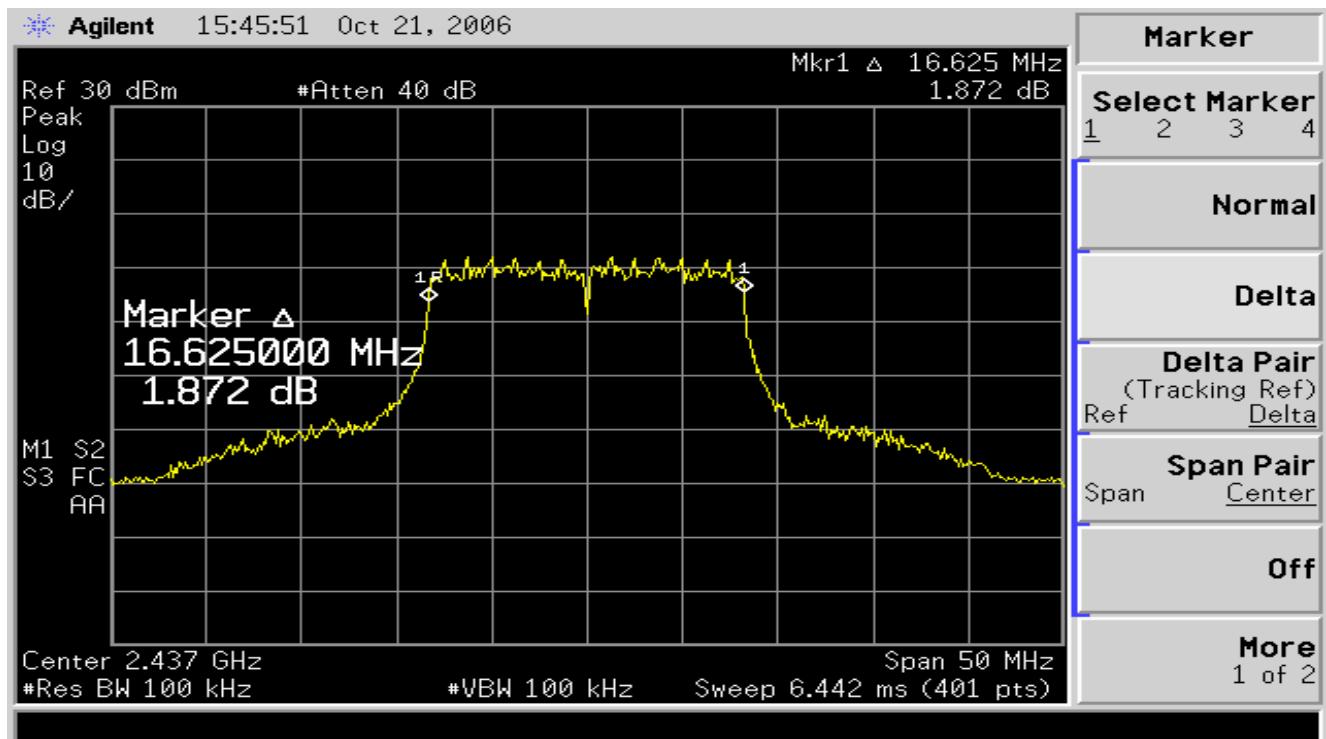
802.11b (2462MHz)



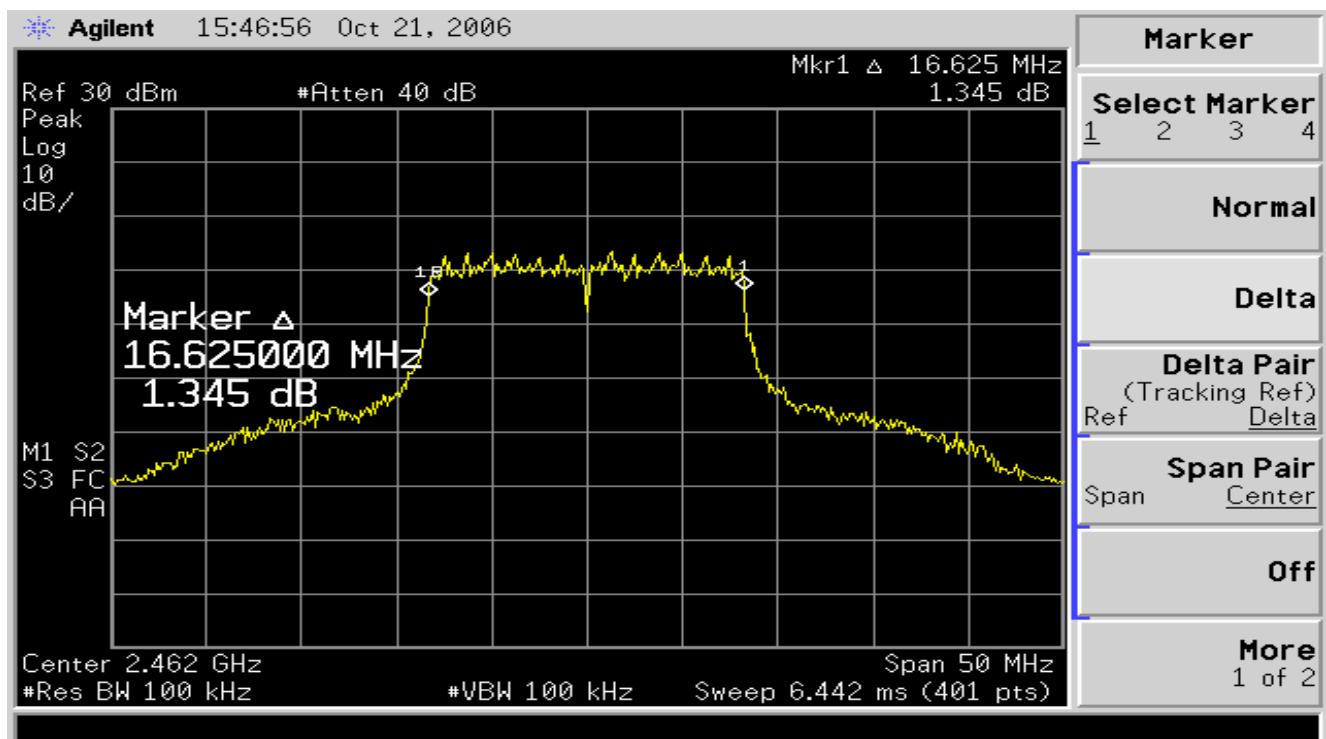
802.11g (2412MHz)



802.11g (2437MHz)



802.11g (2462MHz)



VI. Maximum Power Density Requirements

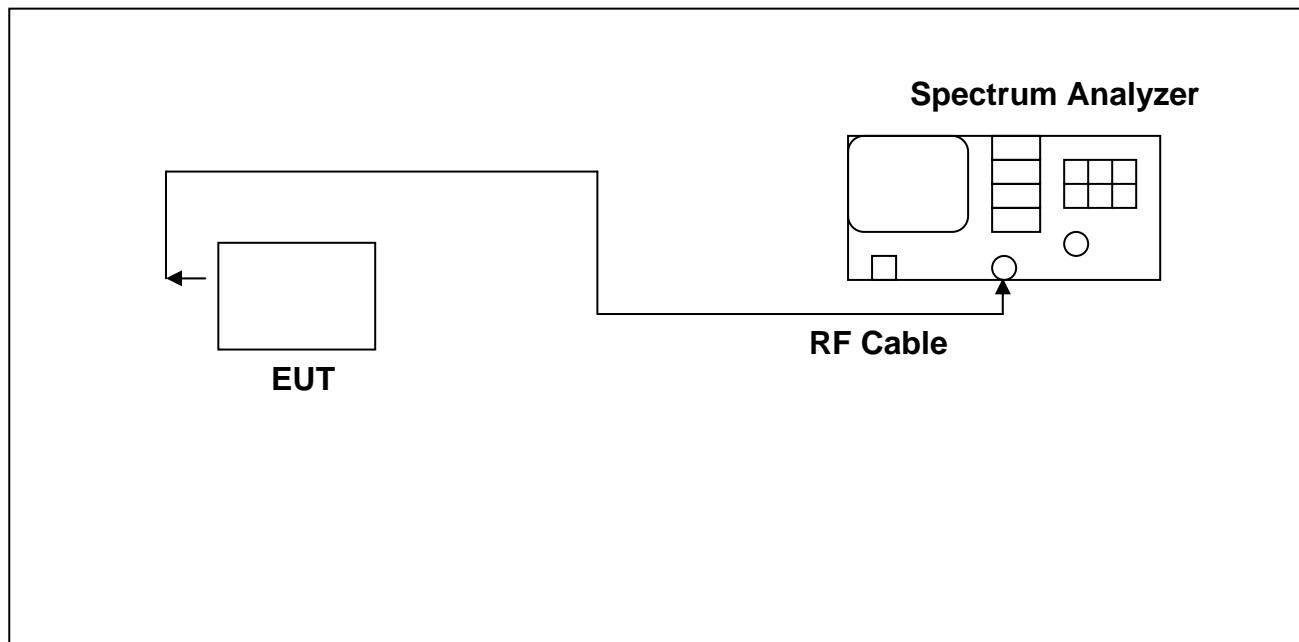
6.1 Test Condition & Setup :

The spectrum analyzer RES BW was set to 3 kHz. The START and STOP frequencies were set to the band edges of the maximum output passband. If there is no clear maximum amplitude in any given portion of the band, it may be necessary to make measurements at a number of bands defined by several START and STOP frequency pairs. The specification calls for a 1 second interval at each 3 kHz bandwidth; total SWEEP TIME is calculated as follows:

$$\text{SWEEP TIME (SEC)} = (\text{Fstop, kHz} - \text{Fstart, kHz})/3 \text{ kHz}$$

Antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

6.2 Test Instruments Configuration:



6.3 Test Equipment List:

Item	Mfr/Brand	Instruments	Serial No.	Model/Type No.	Calibrated Date	Next Cali. Date
1.	Agilent	Spectrum Analyzer	US39240419	E4407B	2006/02/01	2007/02/01

6.4 Test Result:

802.11b

Frequency (MHz)	Power Density (dBm)	Required Limit
2412	-9.29	<8dBm
2437	-9.27	<8dBm
2462	-8.13	<8dBm

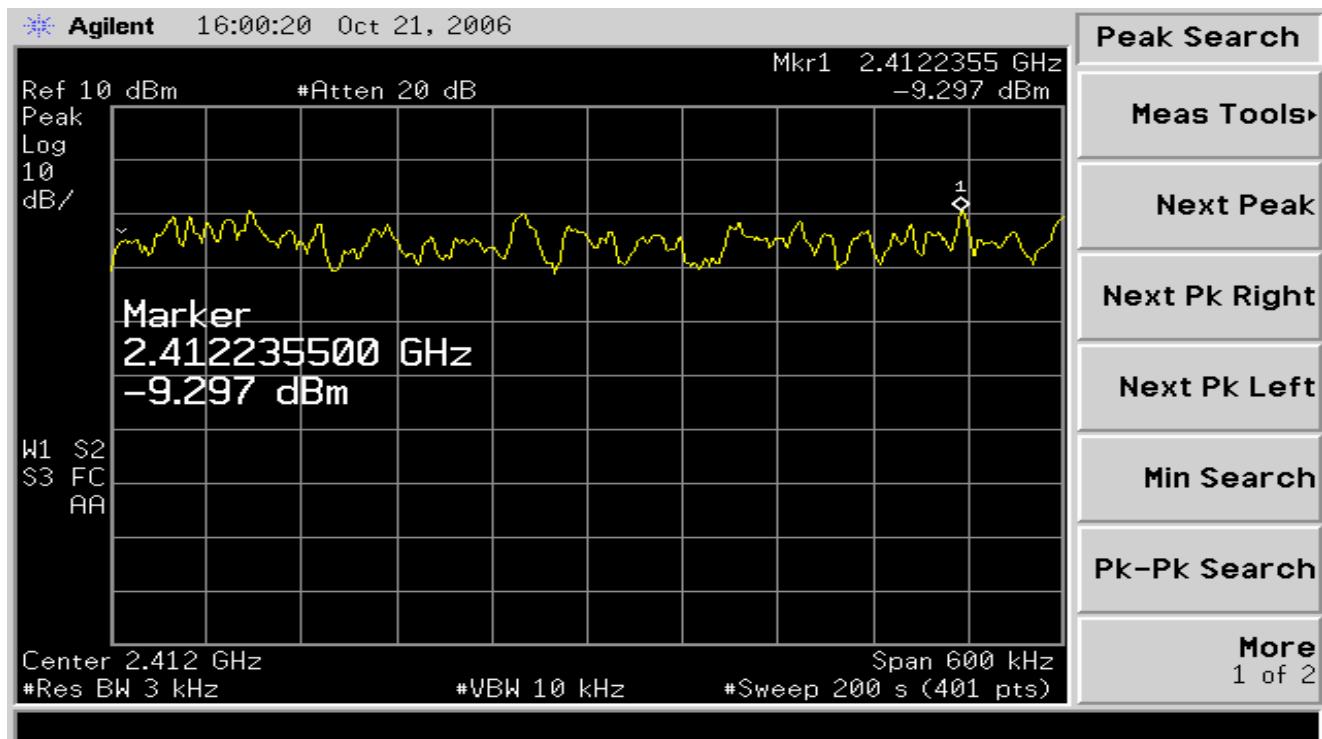
Note : 1. Frequency Span= 600 kHz
 2. Sweep Time = Frequency Span/3 kHz=200secs
 3. Test Graphs See next page.

802.11g

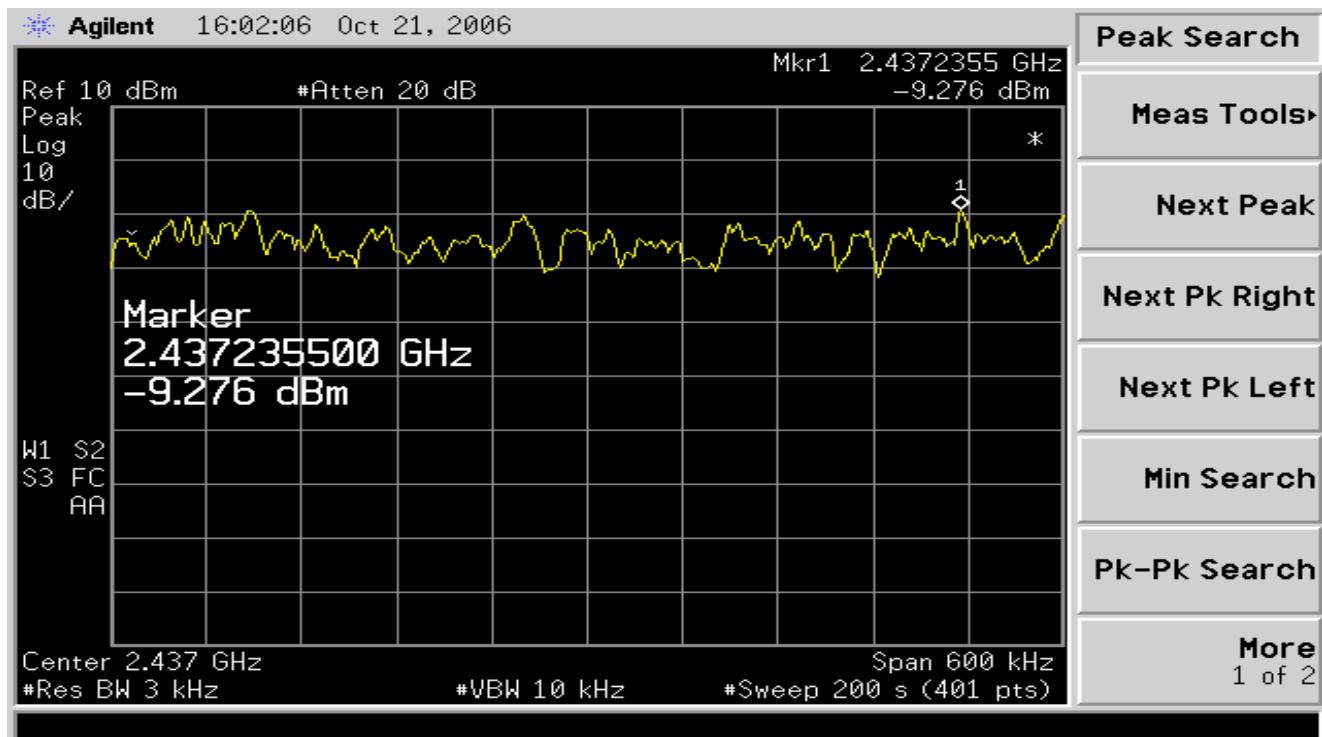
Frequency (MHz)	Power Density (dBm)	Required Limit
2412	-14.84	<8dBm
2437	-14.81	<8dBm
2462	-13.17	<8dBm

Note : 1. Frequency Span= 600 kHz
 2. Sweep Time = Frequency Span/3 kHz=200secs
 3. Test Graphs See next page.

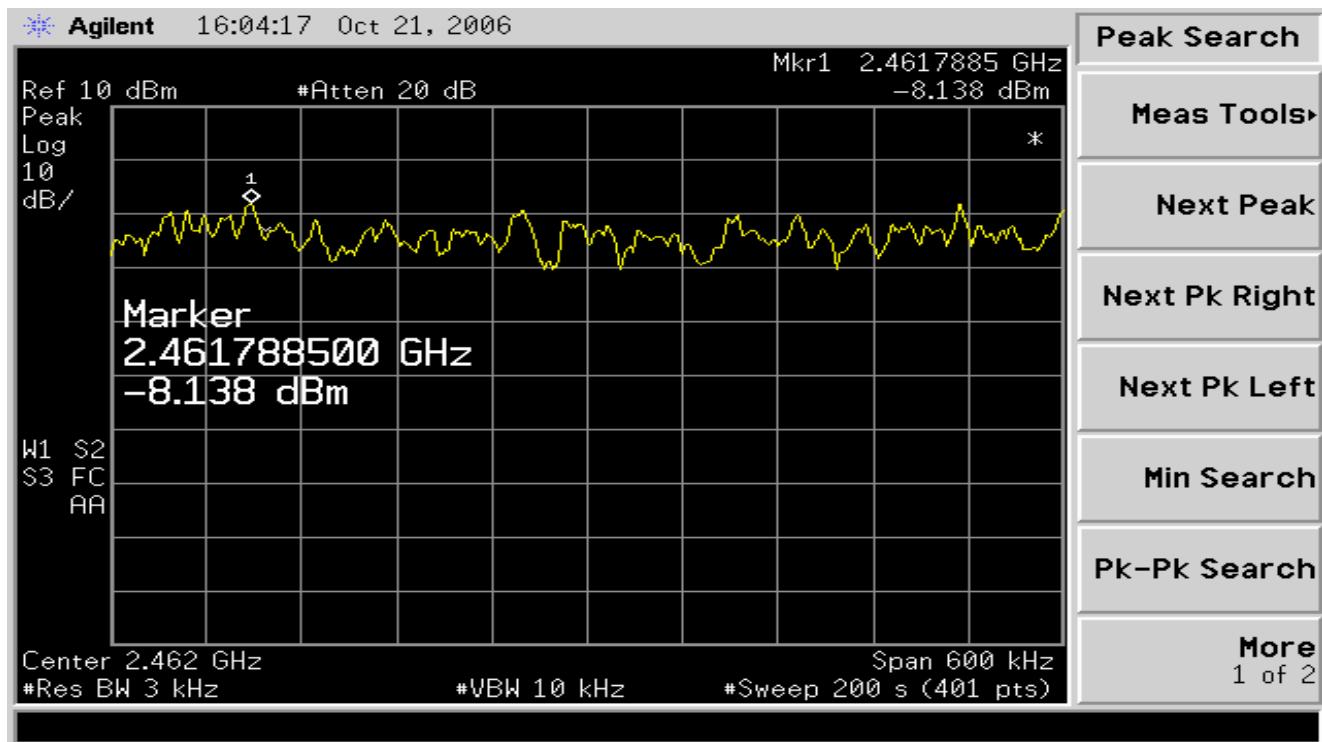
802.11b (2412MHz)



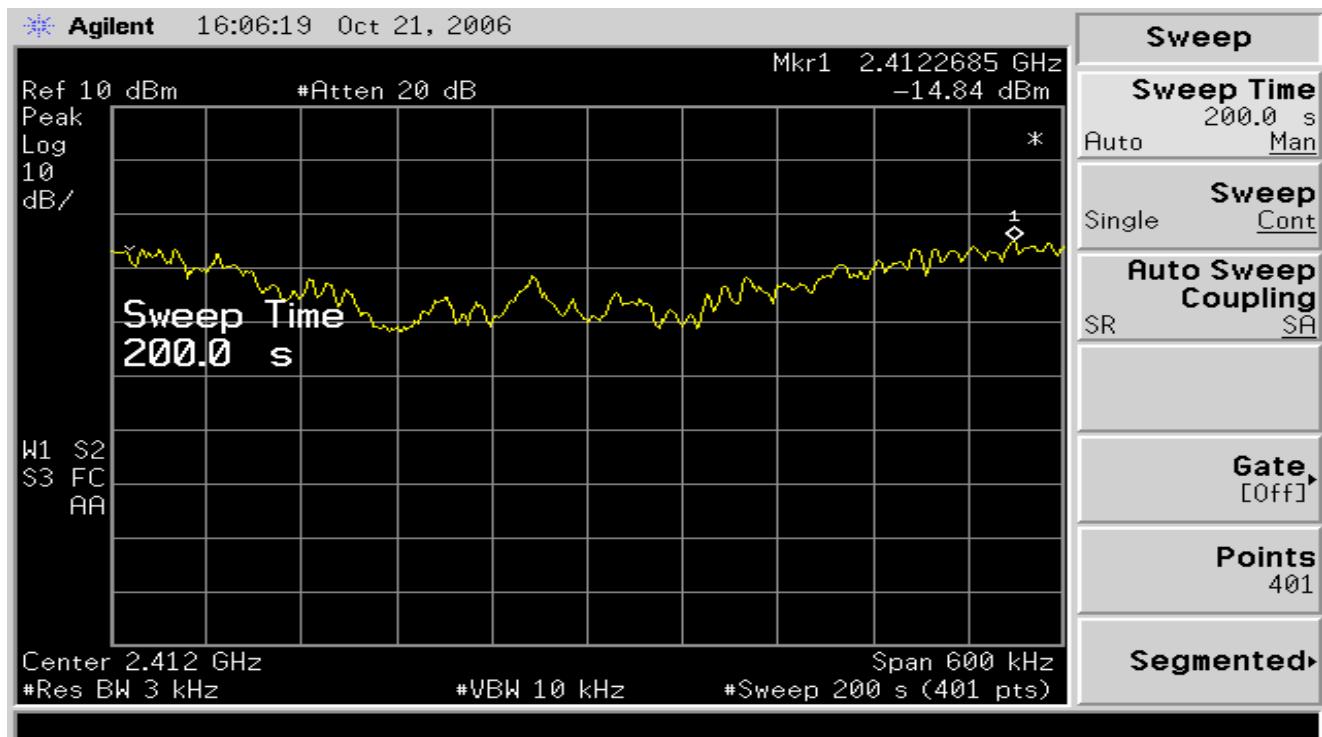
802.11b (2437MHz)



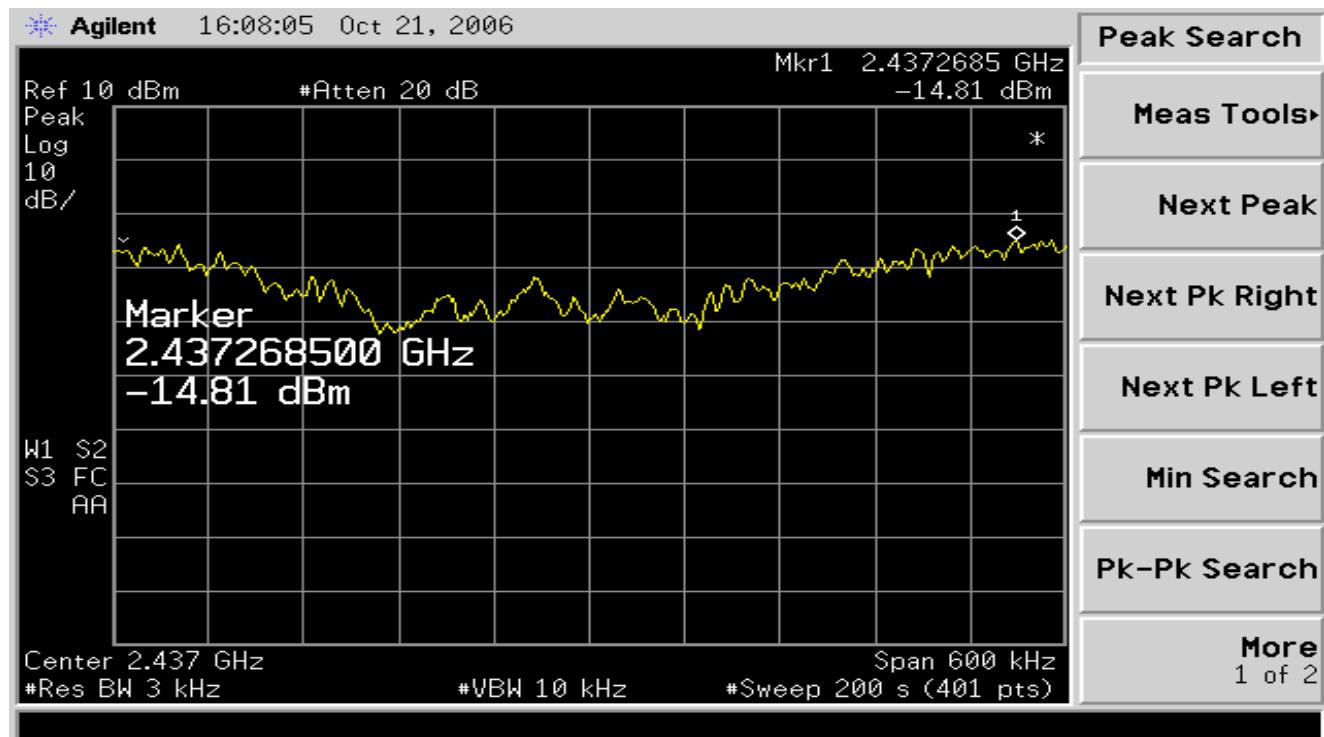
802.11b (2462MHz)



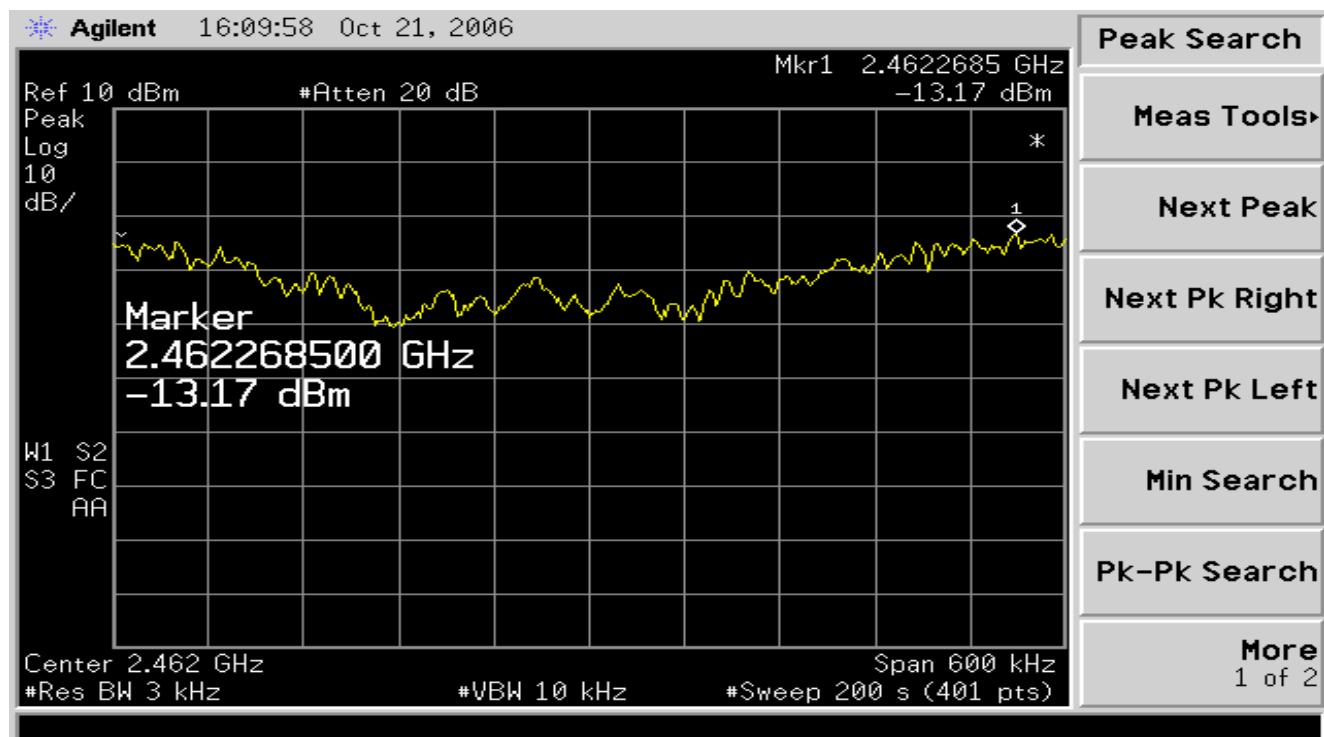
802.11g (2412MHz)



802.11g (2437MHz)



802.11g (2462MHz)



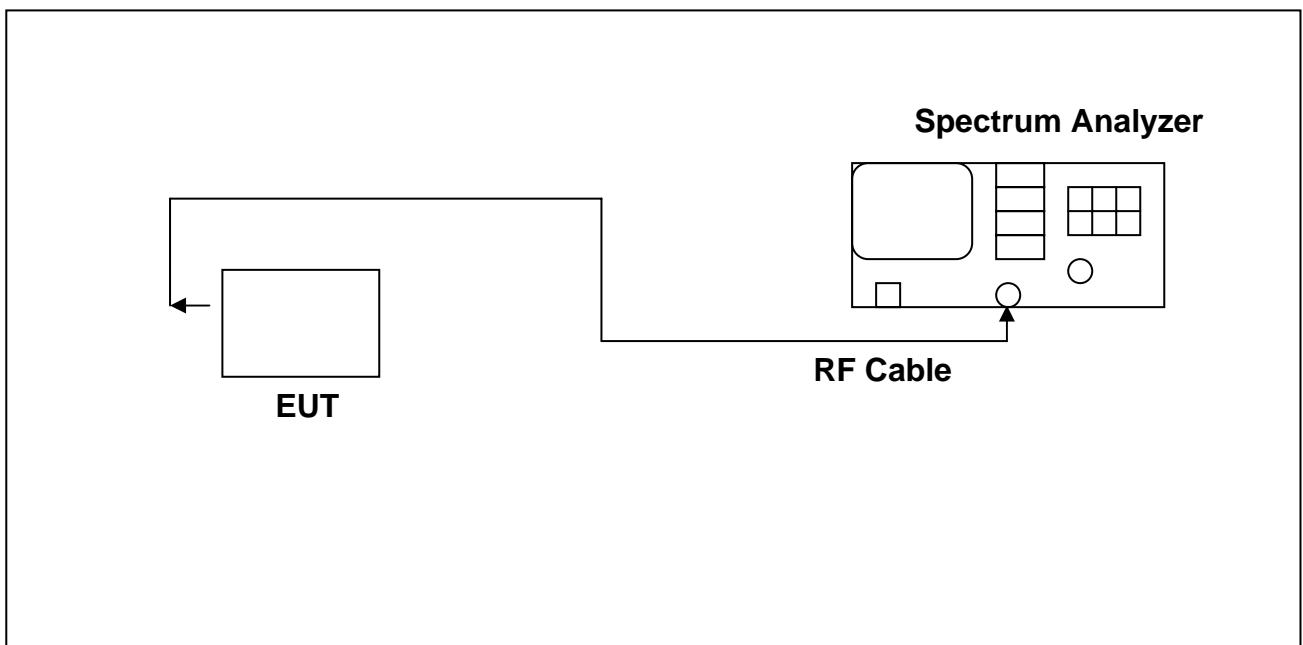
VII. Out of Band Conducted Emissions Requirements

7.1 Test Condition & Setup :

In any 100 kHz bandwidth outside the EUT passband, the RF power produced by the modulation products of the spreading sequence, the information sequence, and the carrier frequency shall be at least 20 dB below that of the maximum in-band 100 kHz emission, antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

All other types of emissions from the EUT shall meet the general limits for radiated frequencies outside the passband. The test was performed at 3 channels (Channel 1, 6,11)

7.2 Test Instruments Configuration:



7.3 Test Equipment List:

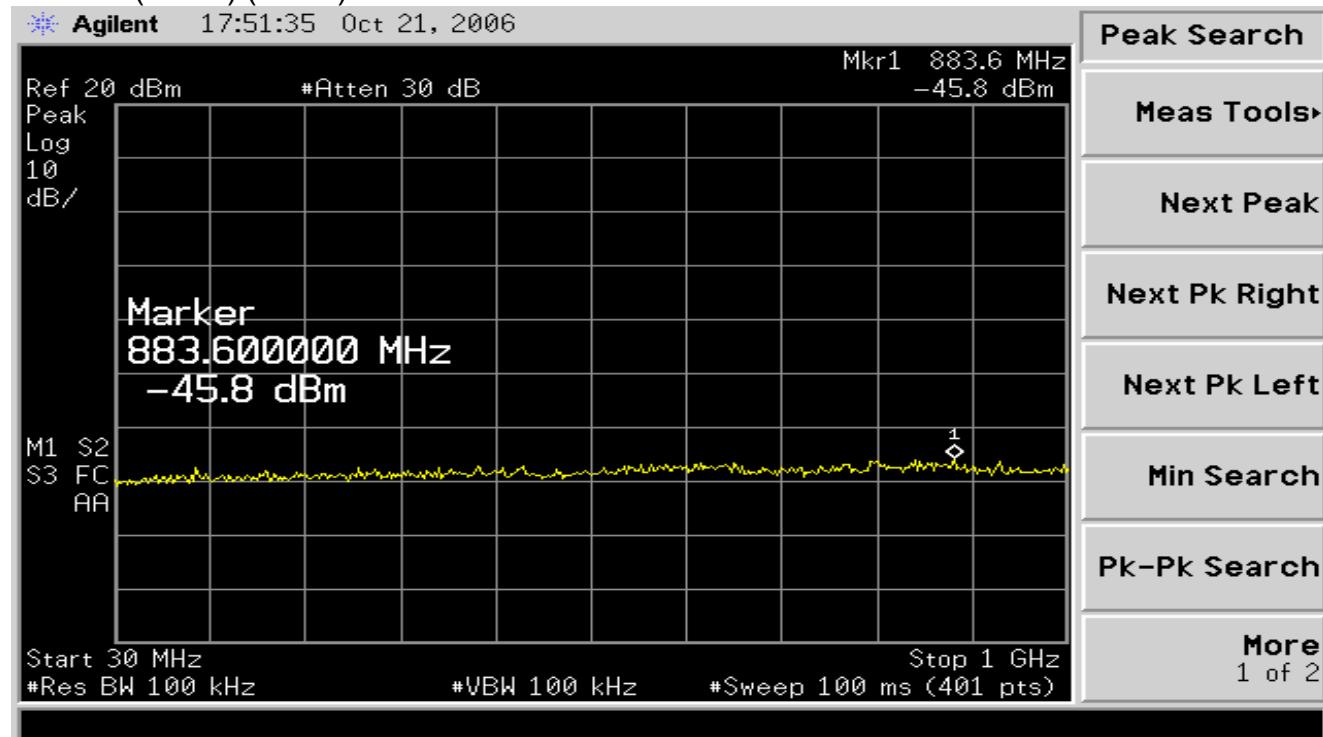
Item	Mfr/Brand	Instruments	Serial No.	Model/Type No.	Calibrated Date	Next Cali. Date
1.	Agilent	Spectrum Analyzer	US39240419	E4407B	2006/02/01	2007/02/01

7.4 Test Result:

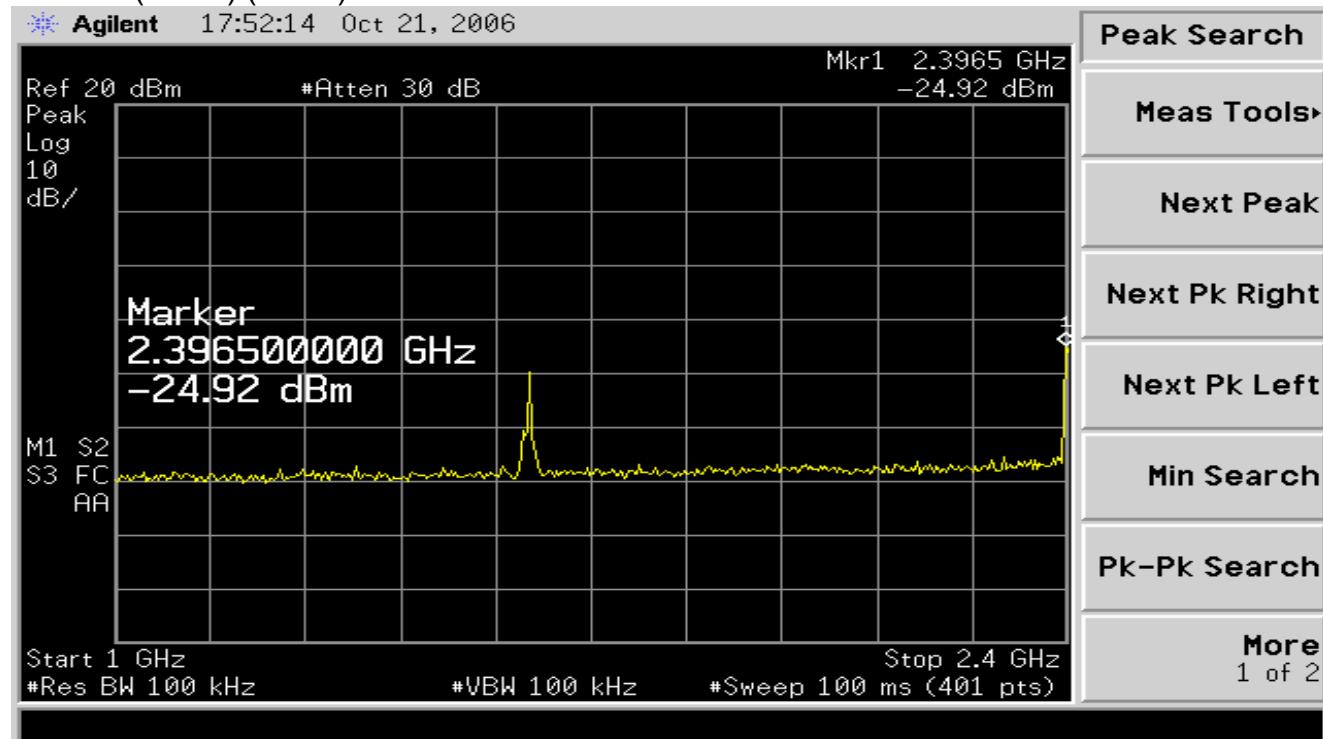
Refer to attached data sheets. Data shows out of band emissions are suppressed well below the -20 dBc minimum required by the Rules.

Note : Test Graphs See next page.

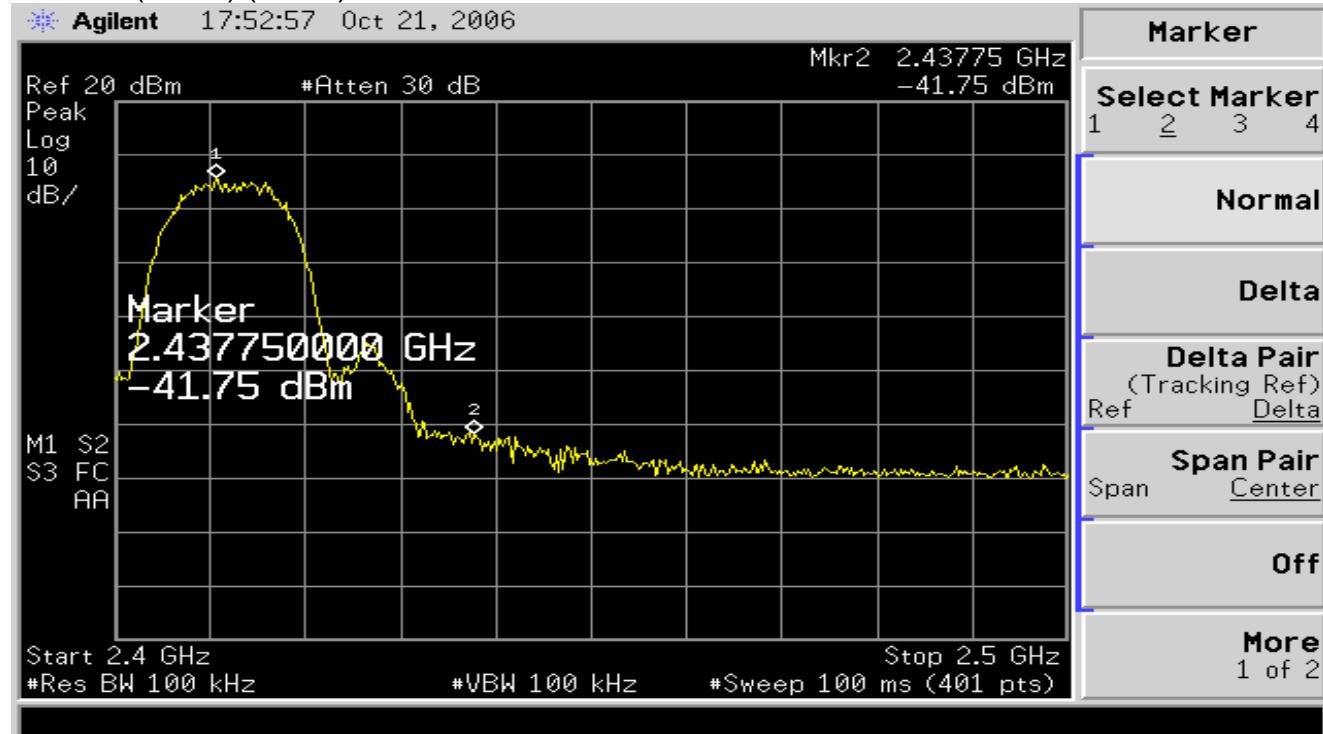
802.11b (CH01) (1 of 5)



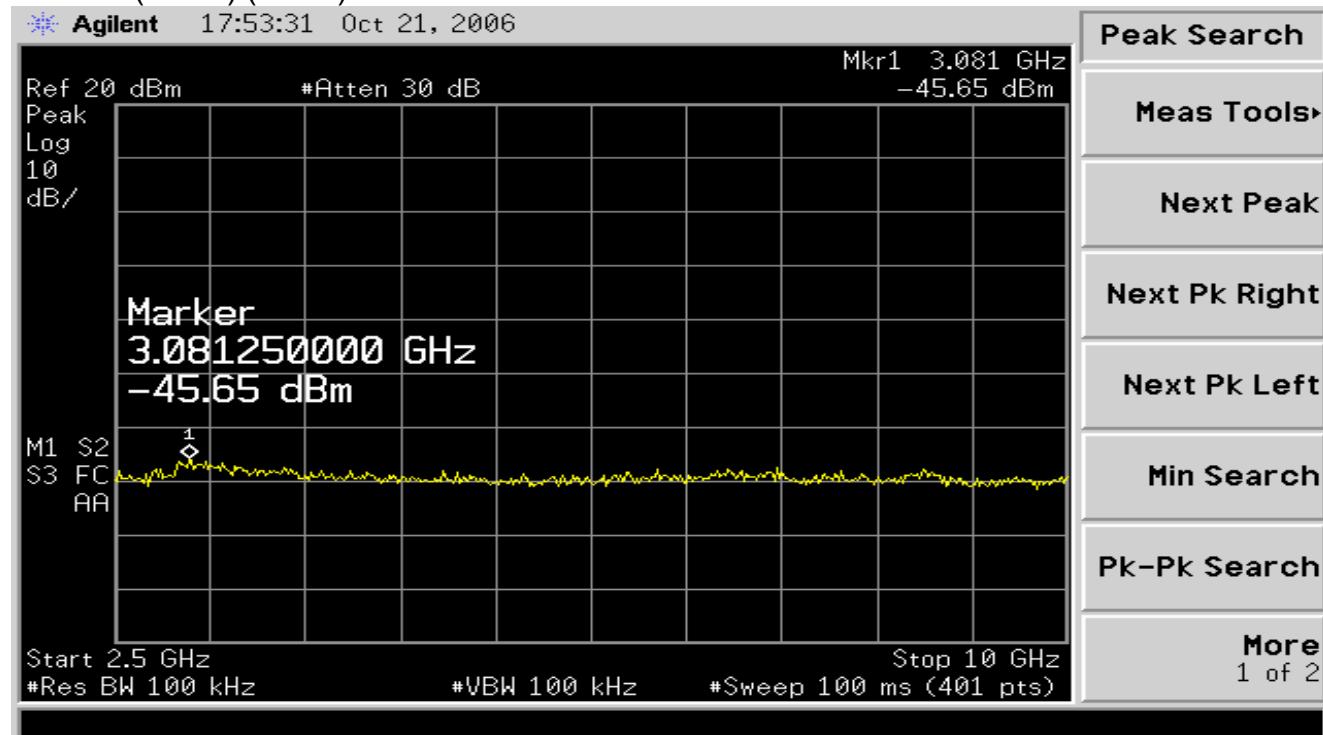
802.11b (CH01) (2 of 5)



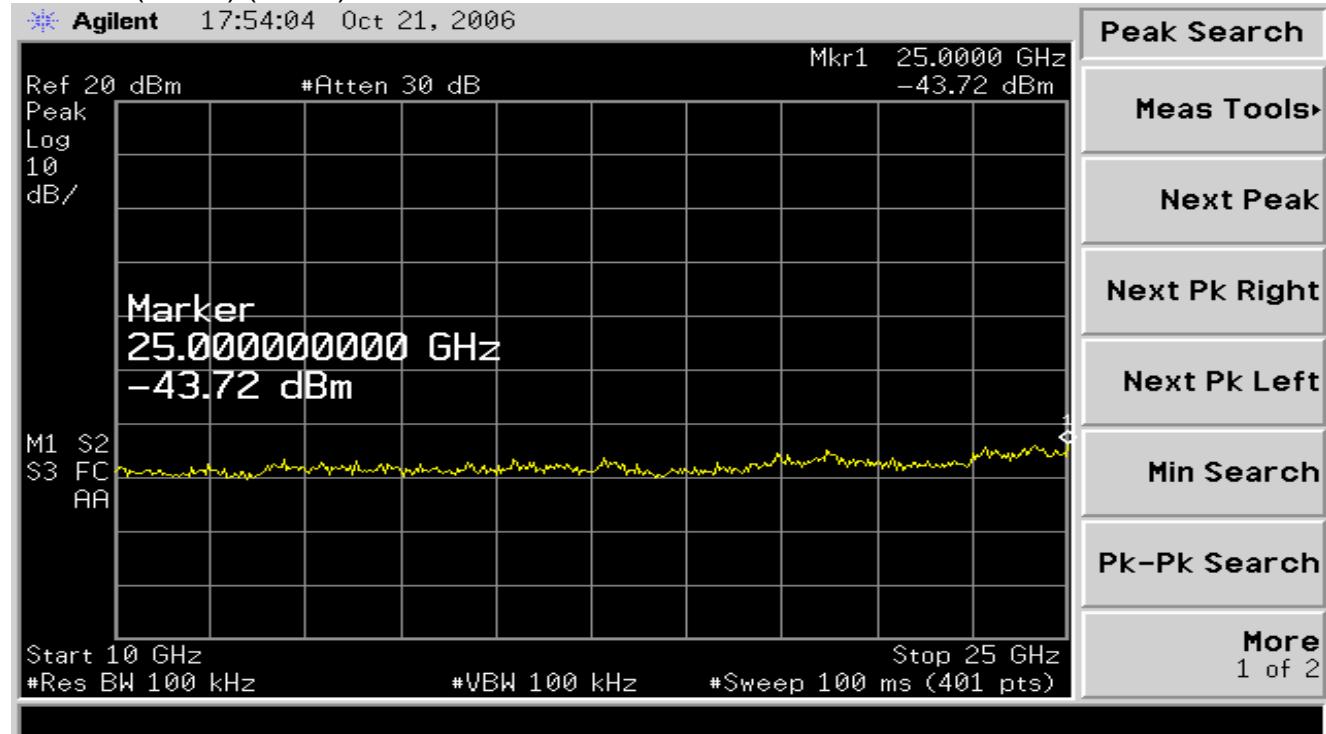
802.11b (CH01) (3 of 5)



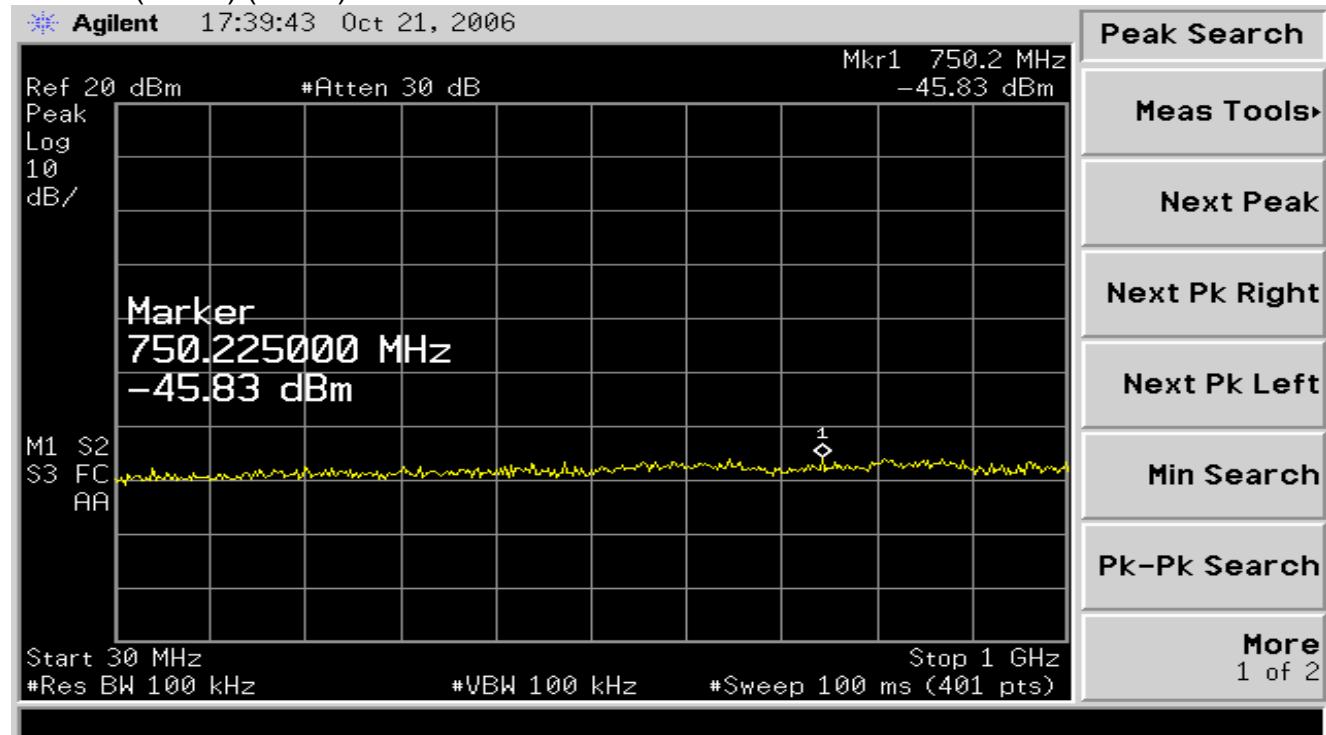
802.11b (CH01) (4 of 5)



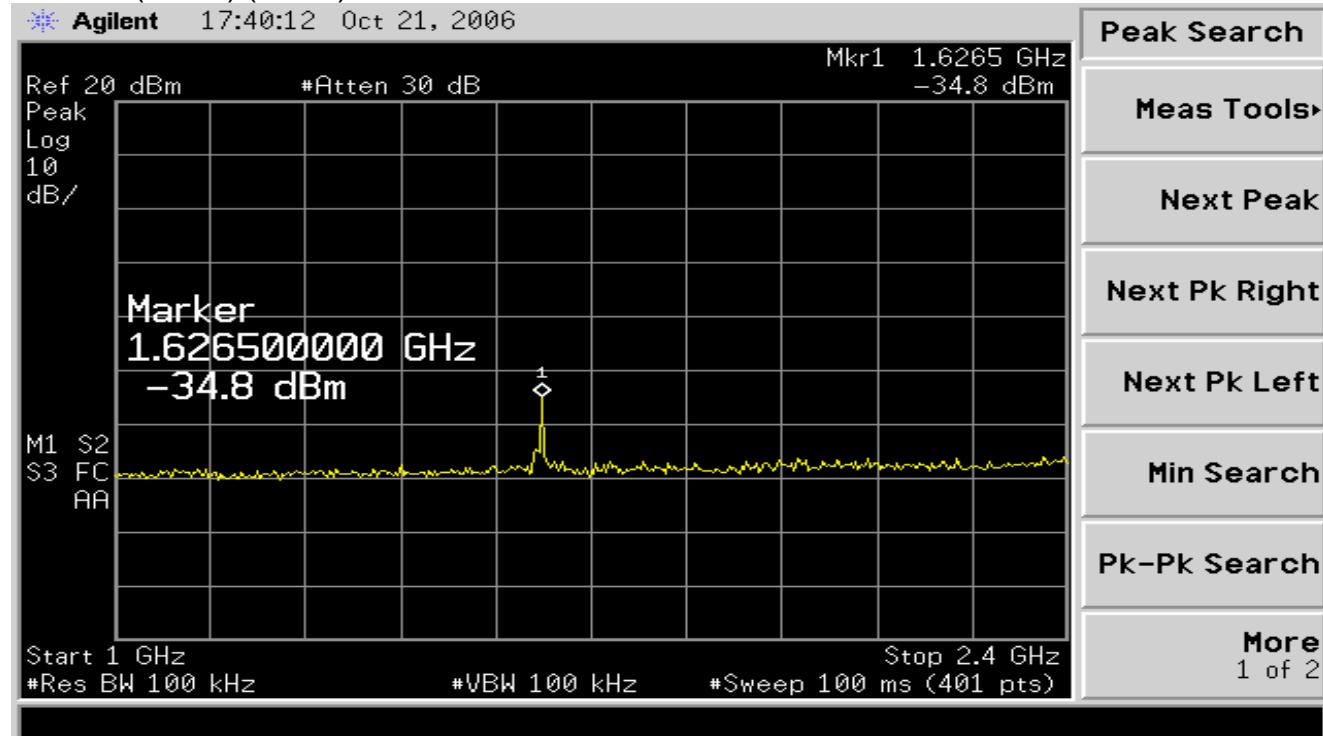
802.11b (CH01) (5 of 5)



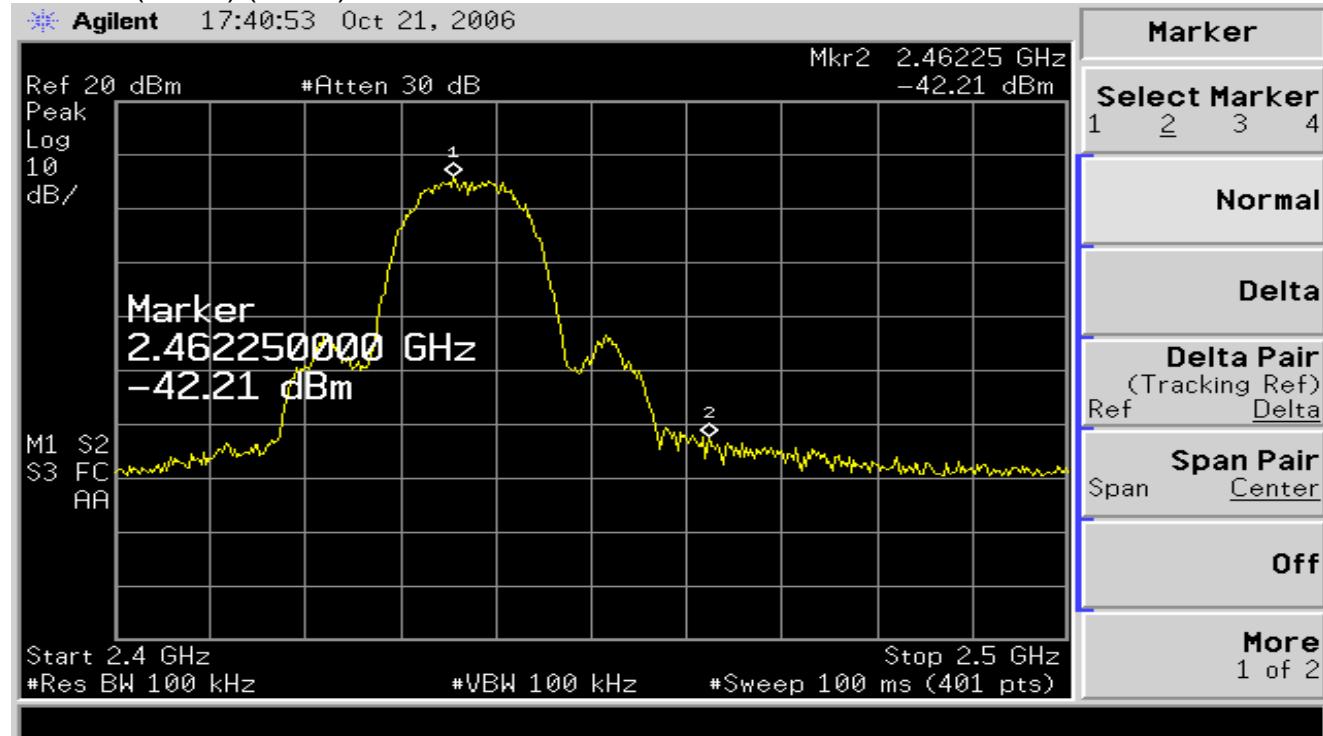
802.11b (CH06) (1 of 5)



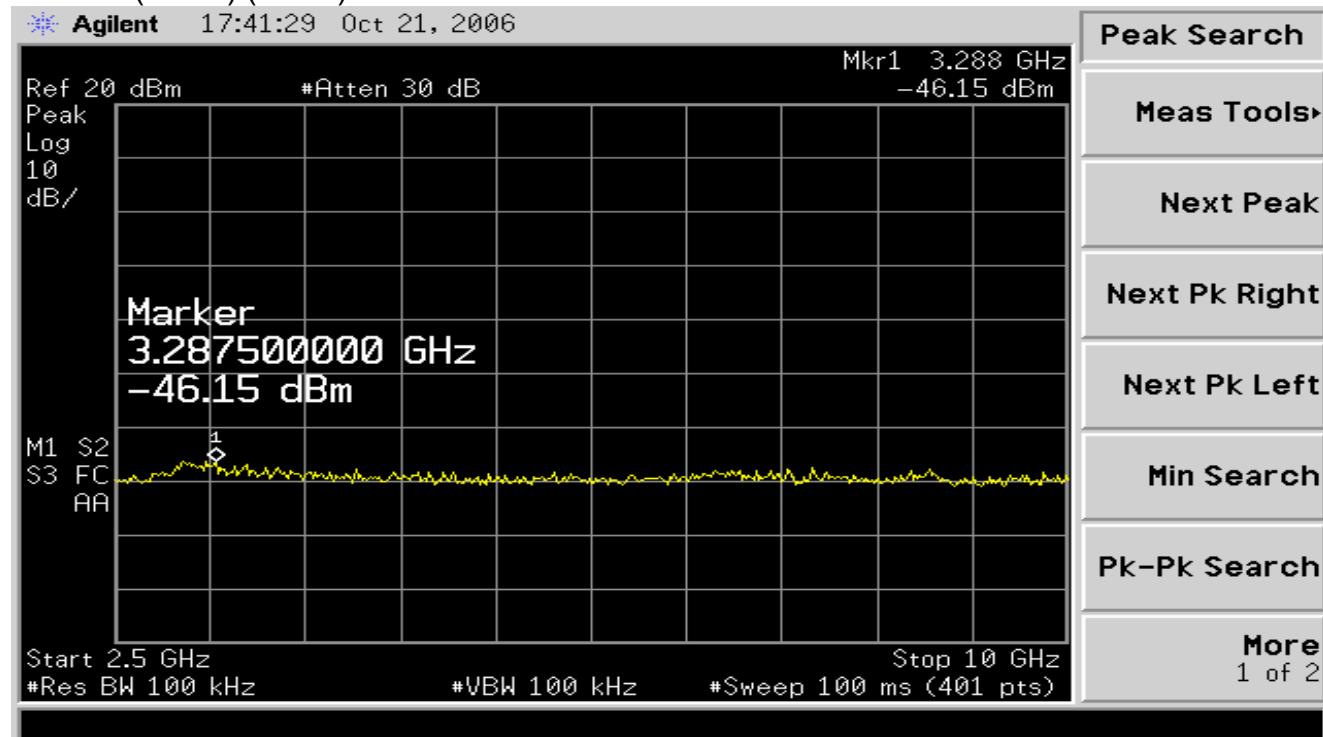
802.11b (CH06) (2 of 5)



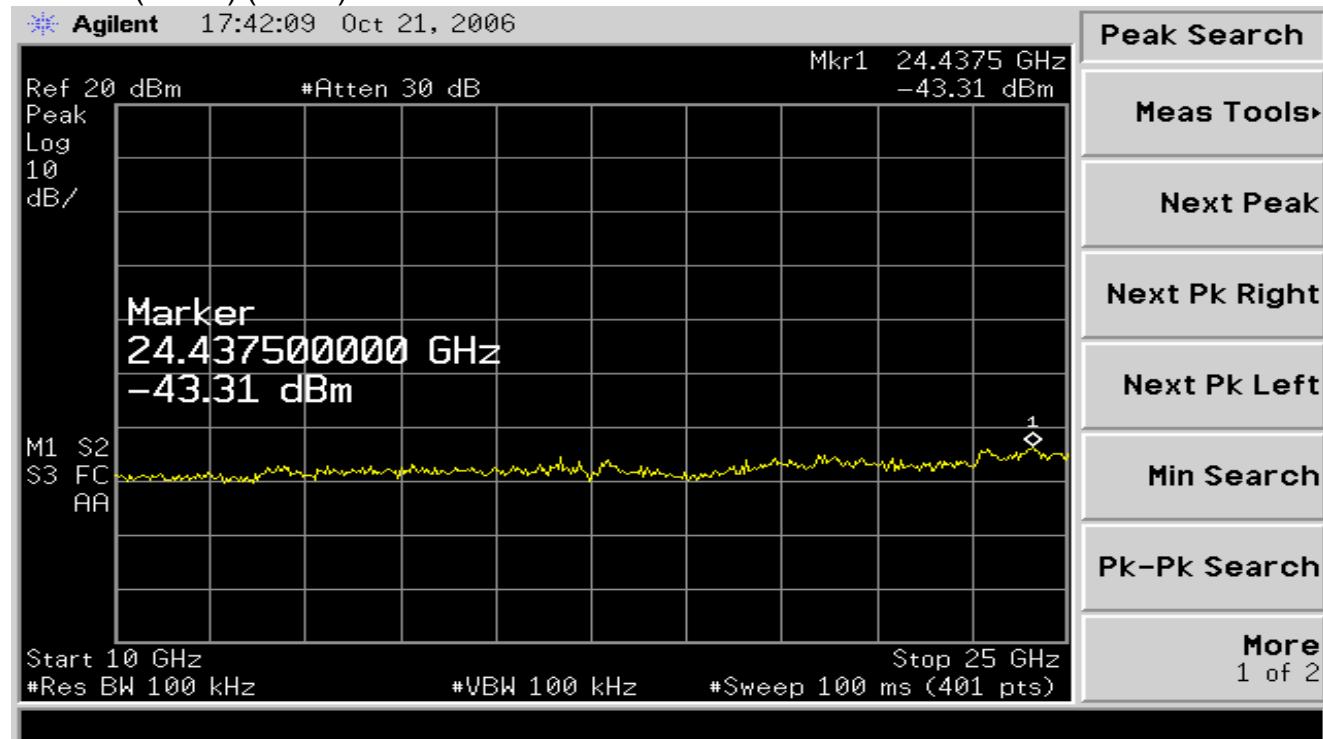
802.11b (CH06) (3 of 5)



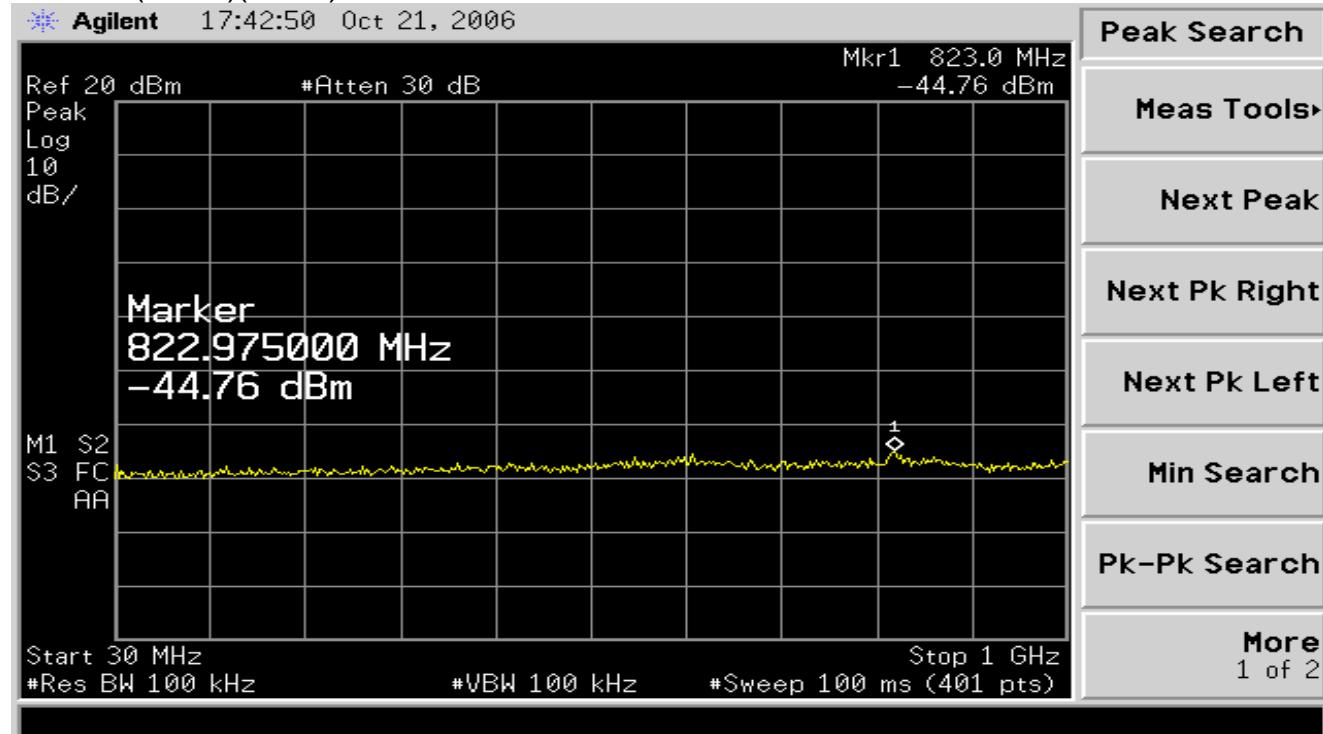
802.11b (CH06) (4 of 5)



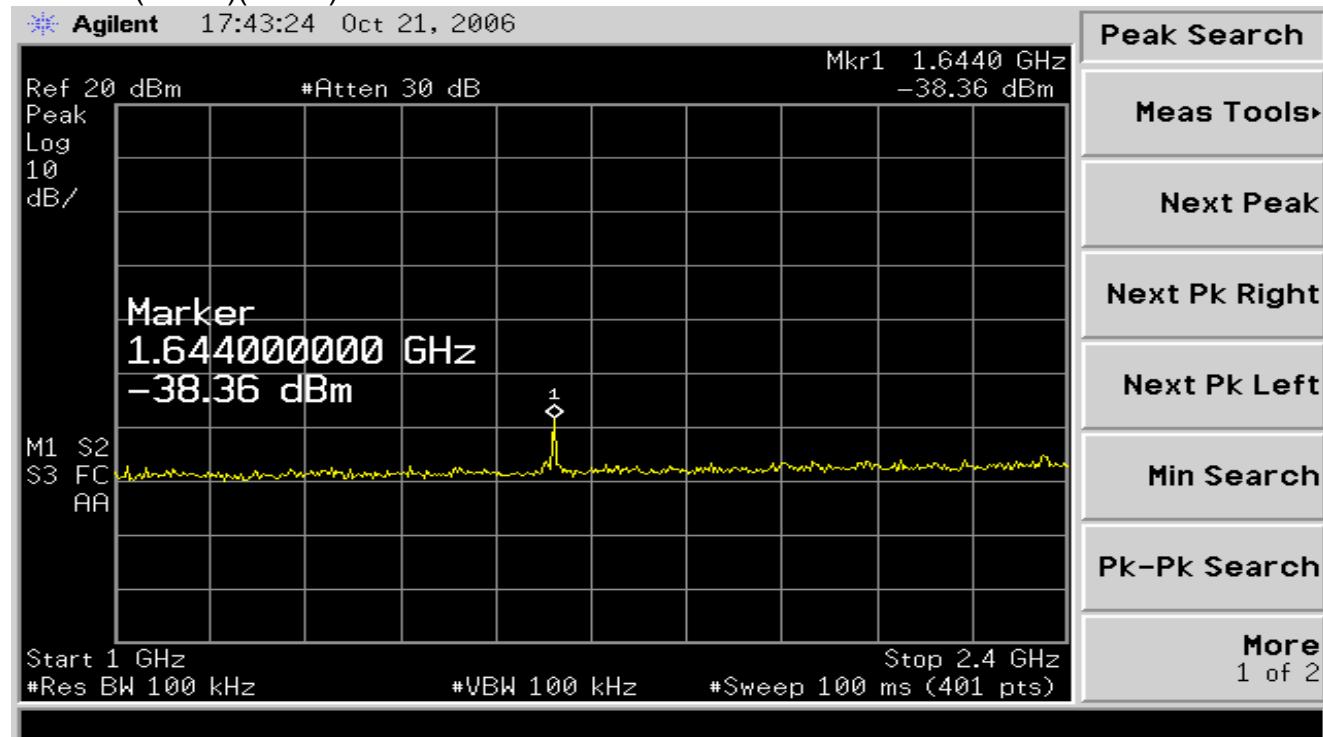
802.11b (CH06) (5 of 5)



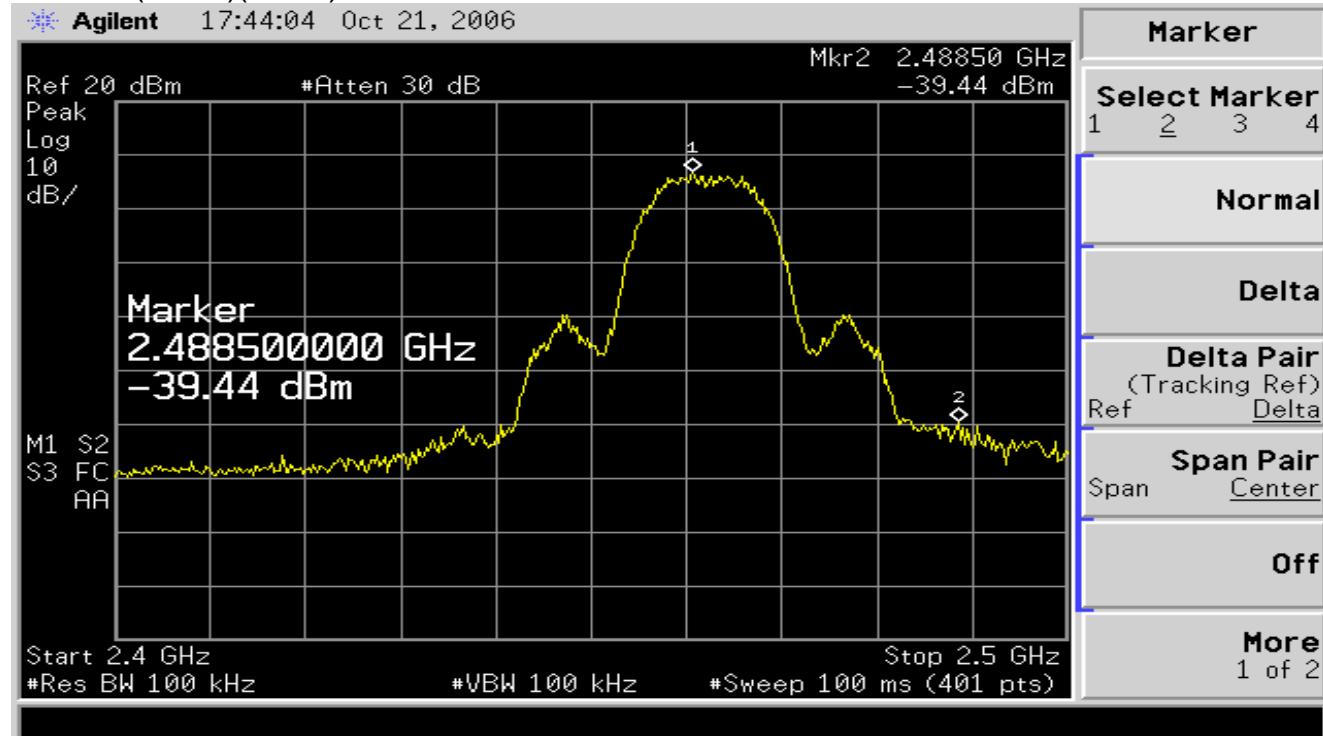
802.11b (CH11)(1 of 5)



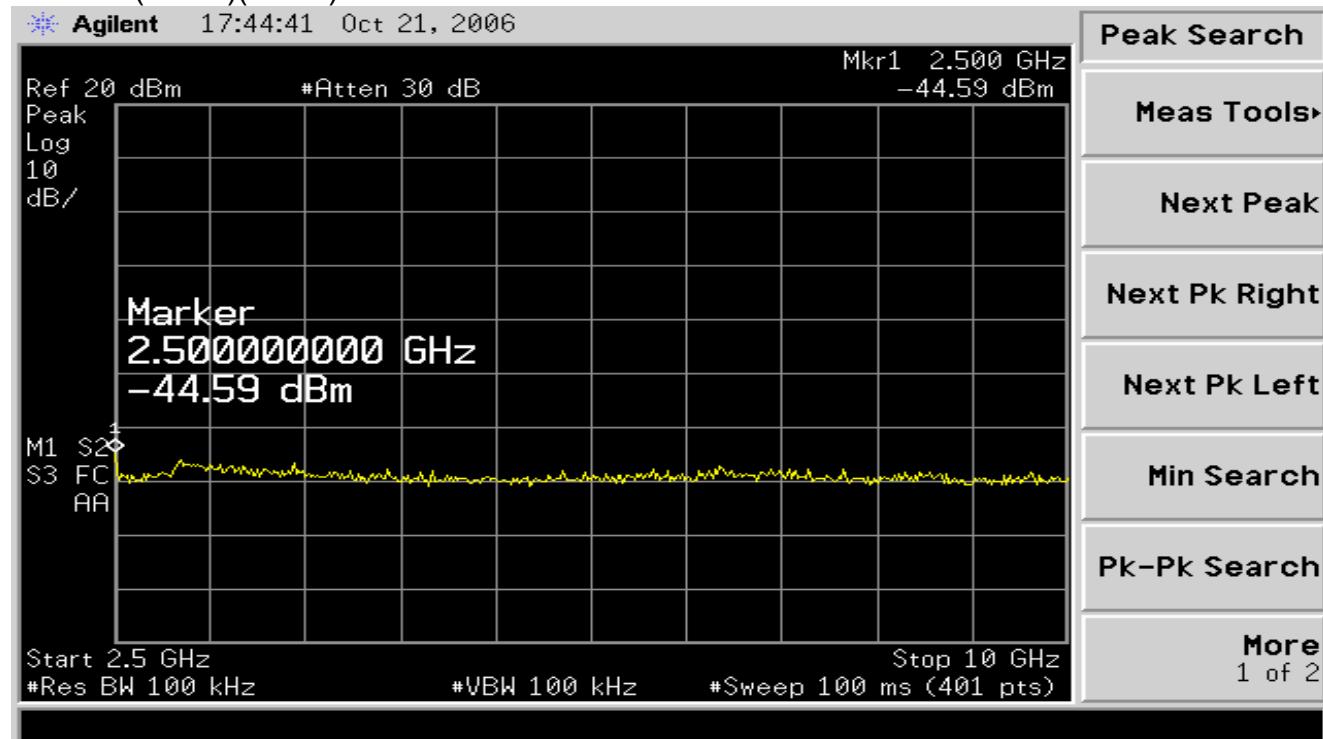
802.11b (CH11)(2 of 5)



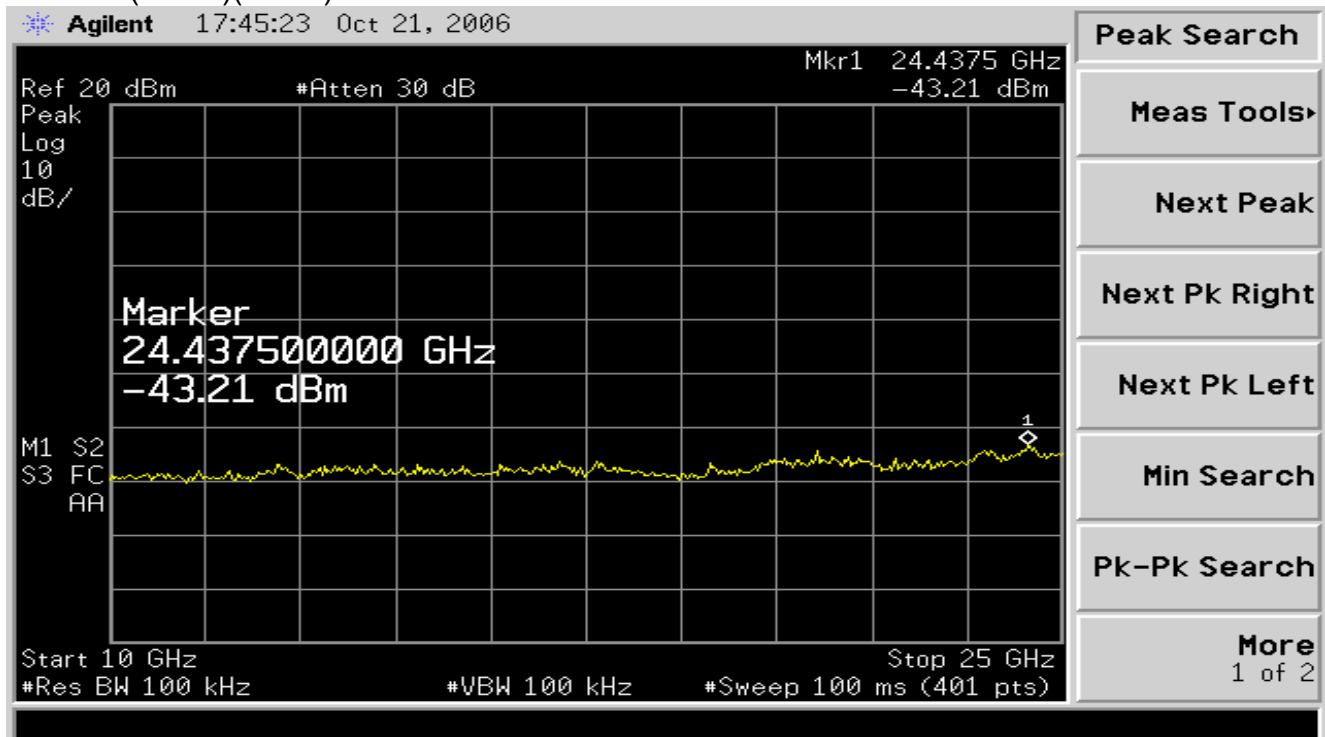
802.11b (CH11)(3 of 5)



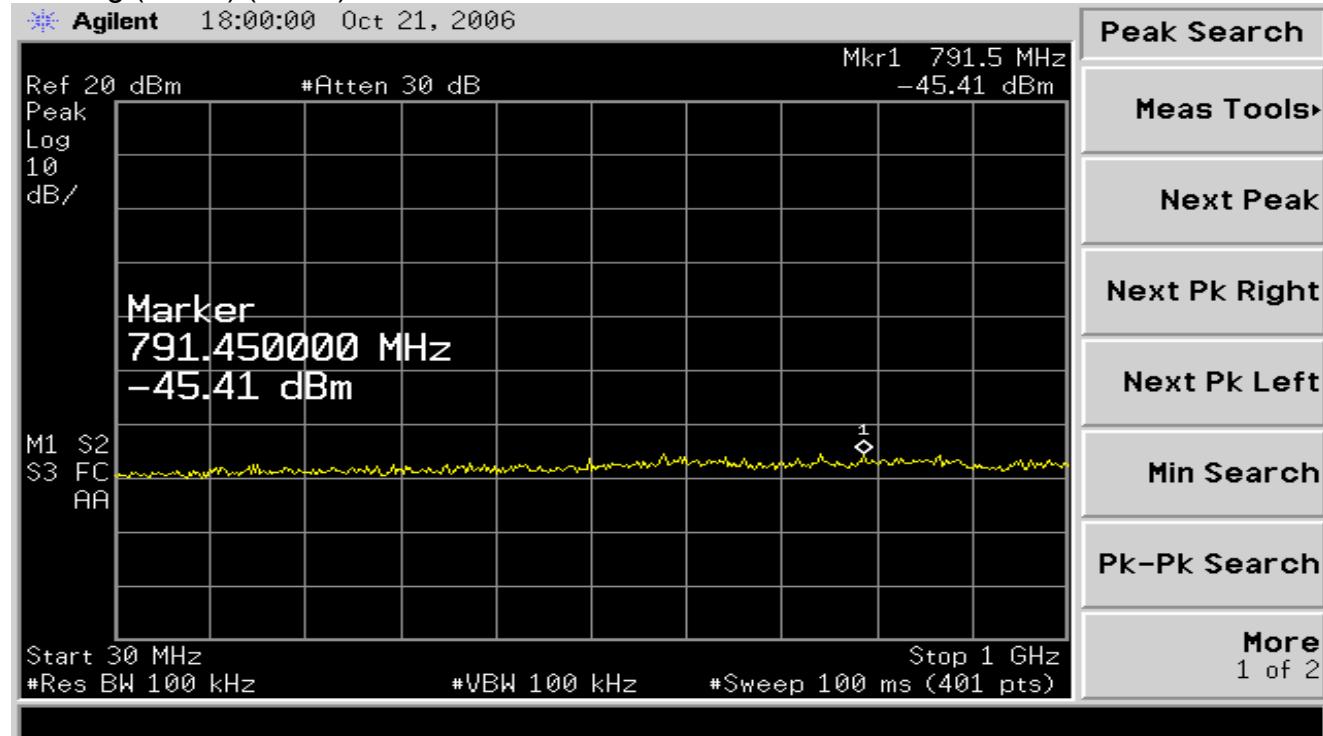
802.11b (CH11)(4 of 5)



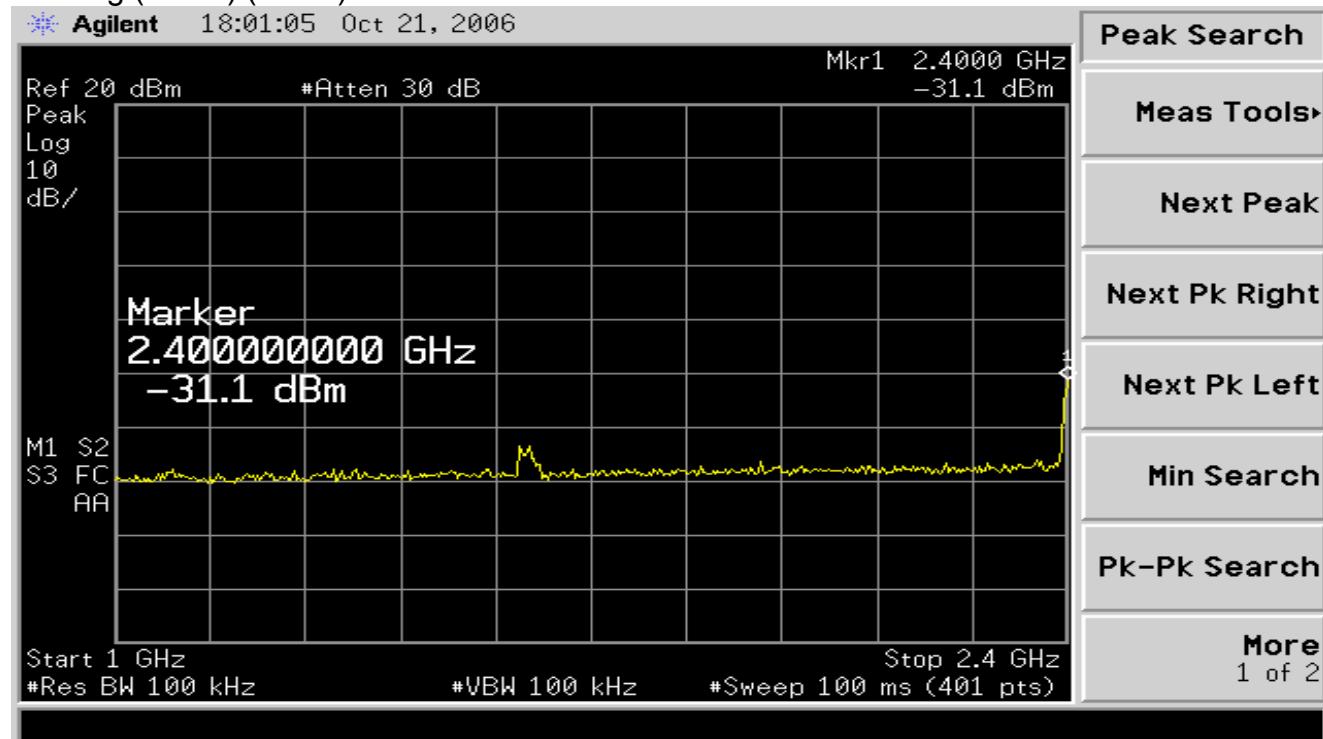
802.11b (CH11)(5 of 5)



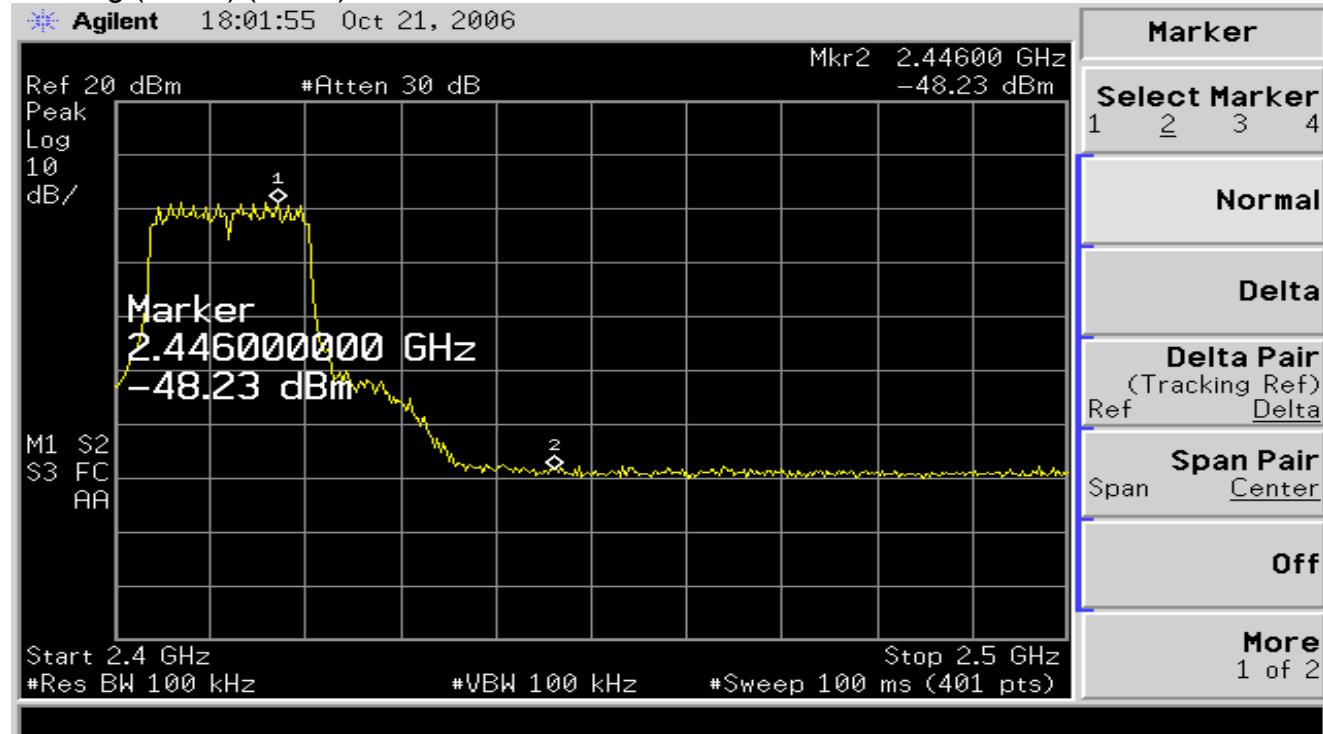
802.11g (CH01) (1 of 5)



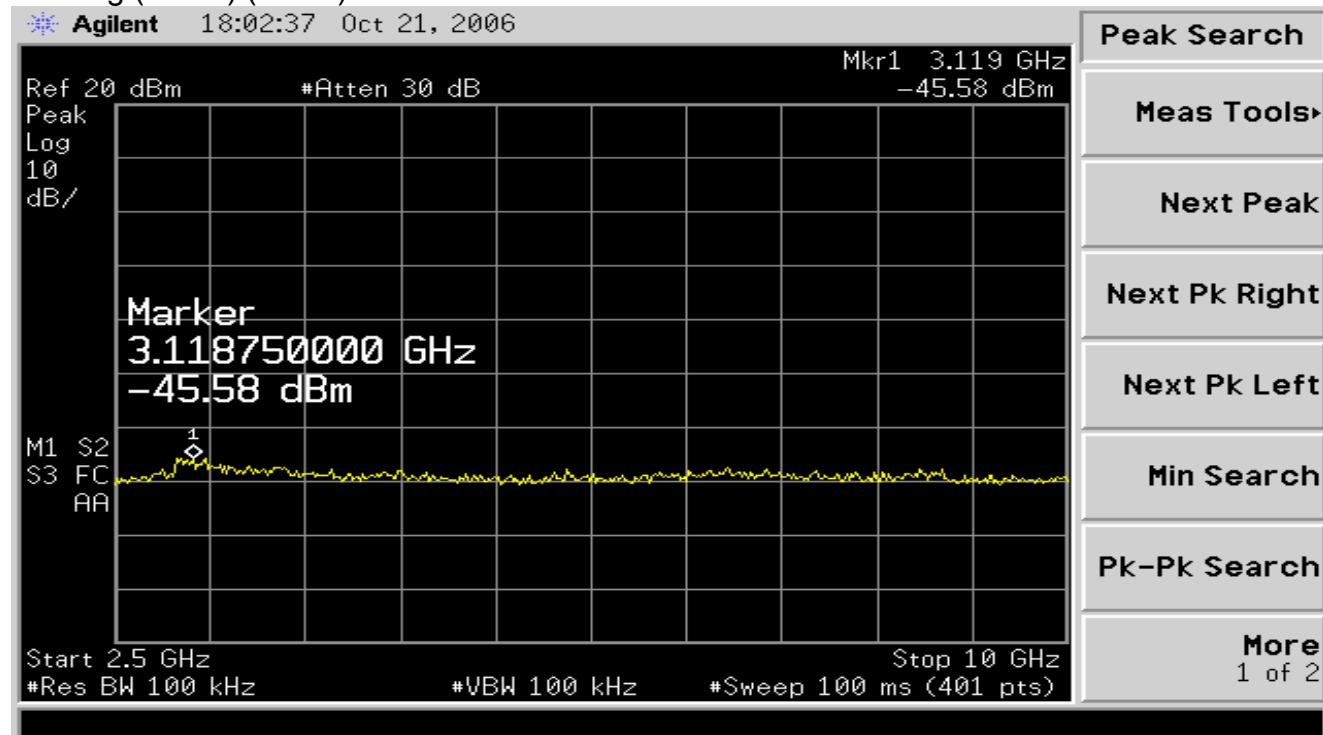
802.11g (CH01) (2 of 5)



802.11g (CH01) (3 of 5)



802.11g (CH01) (4 of 5)



802.11g (CH01) (5 of 5)

 **Agilent** 18:03:19 Oct 21, 2006



Peak Search

Meas Tools▶

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Next Peak

Next Pk Right

Next Pk Left

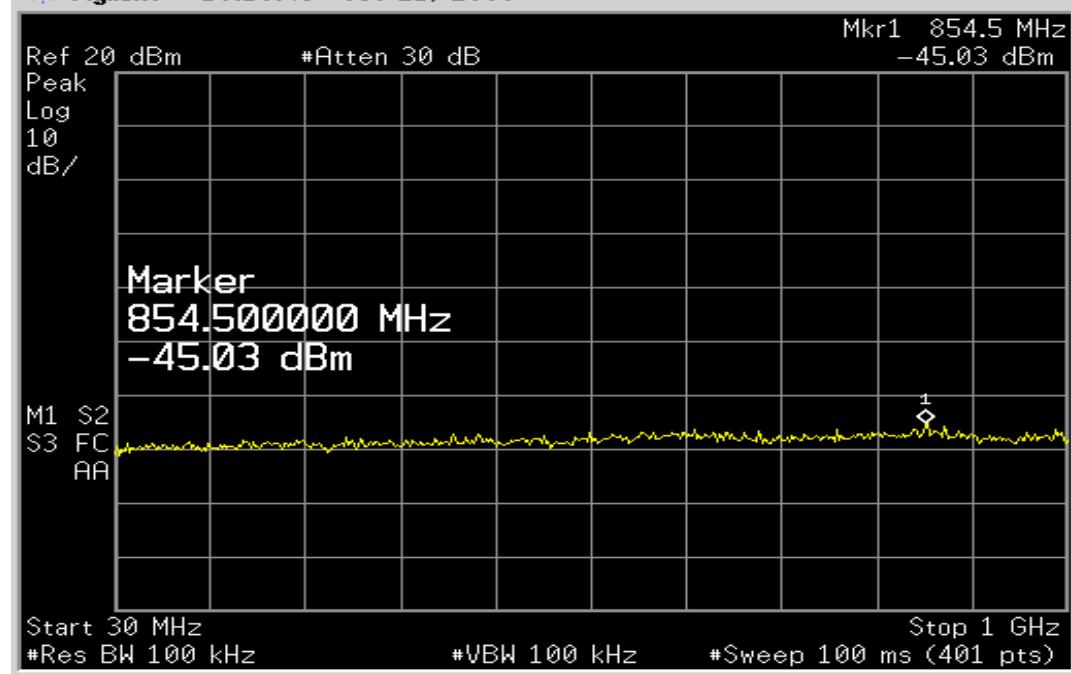
Miss Saenger

Pk-Pk Search

More
1 of 2

802.11g (CH06) (1 of 5)

Agilent 18:18:43 Oct 21, 2006



Peak Search

Meas Tools

10 of 10

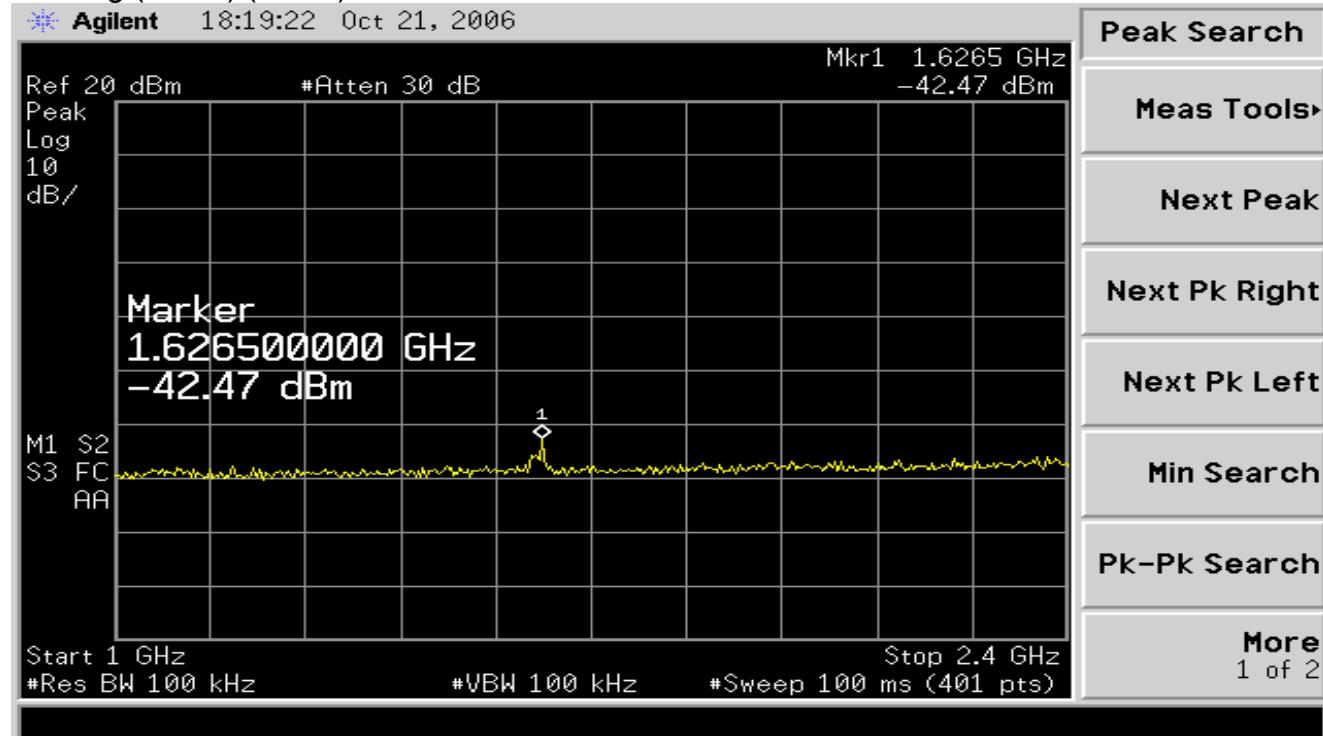
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1000 J. POLYMER SCIENCE: PART A

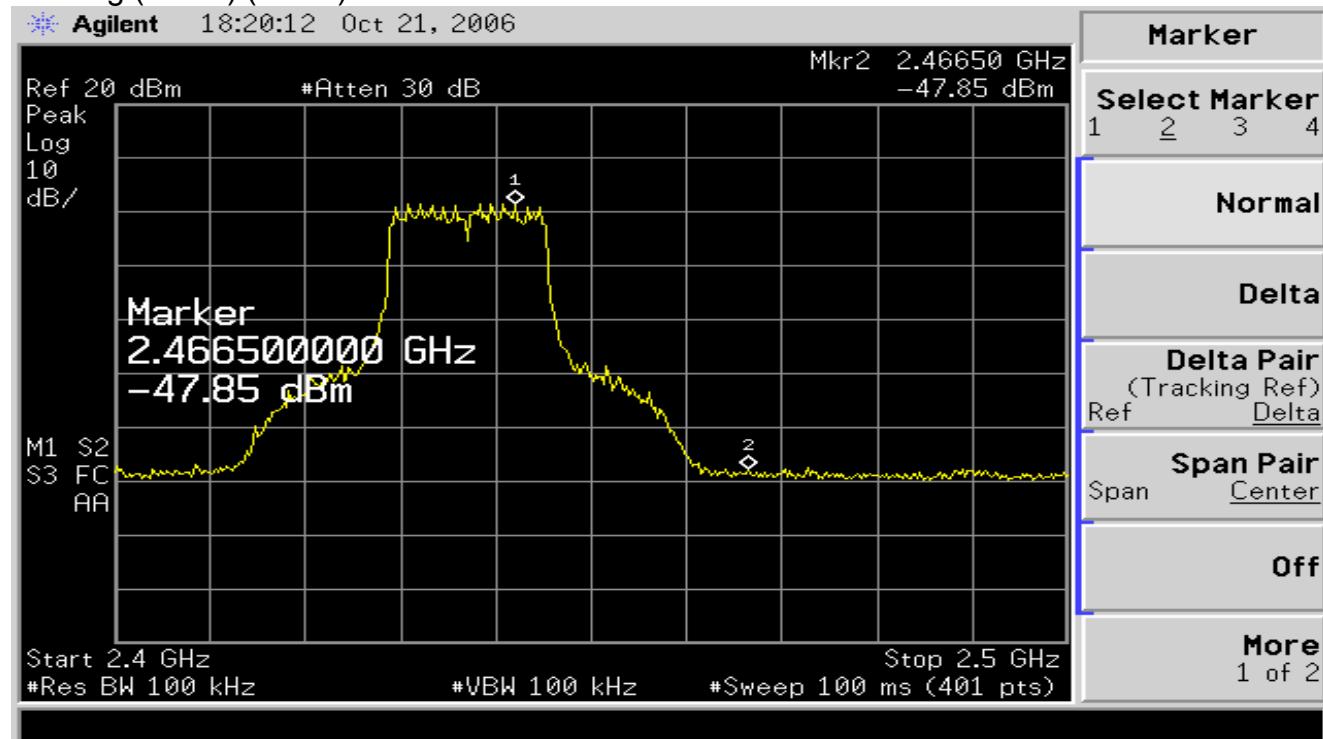
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100

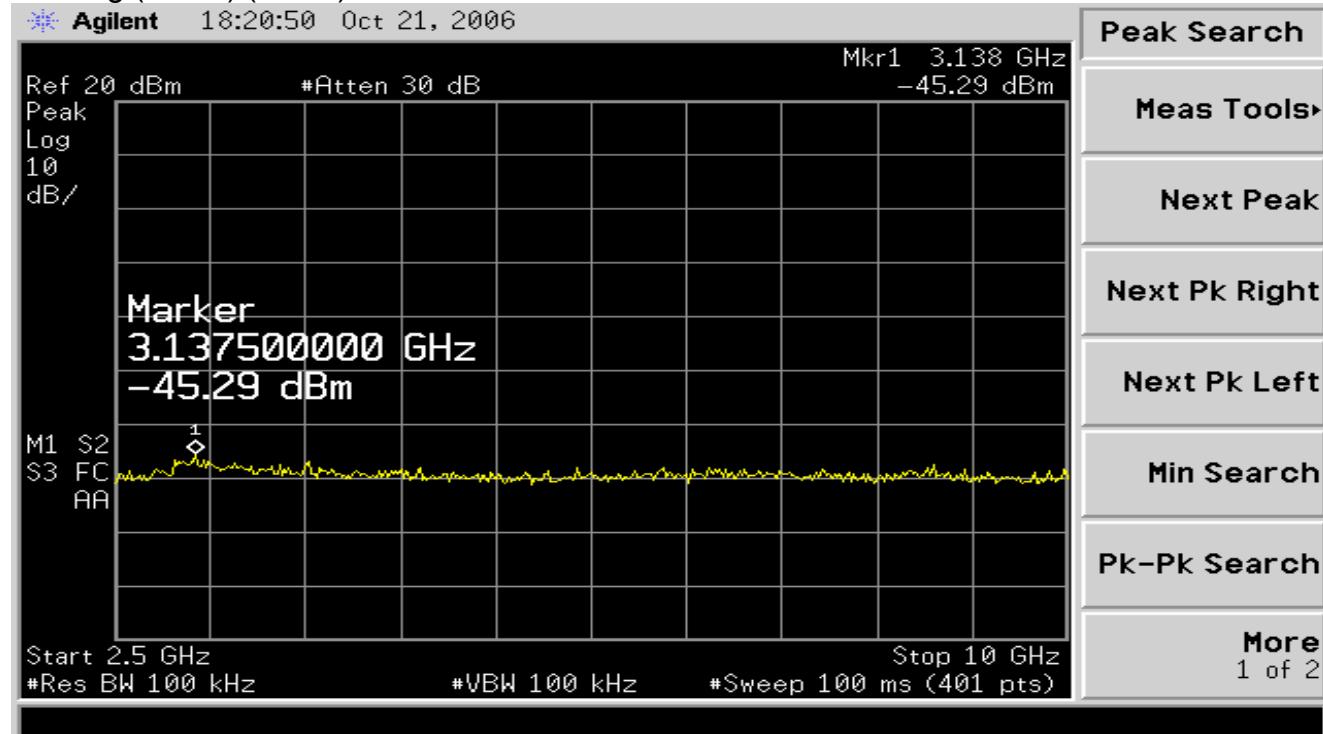
802.11g (CH06) (2 of 5)



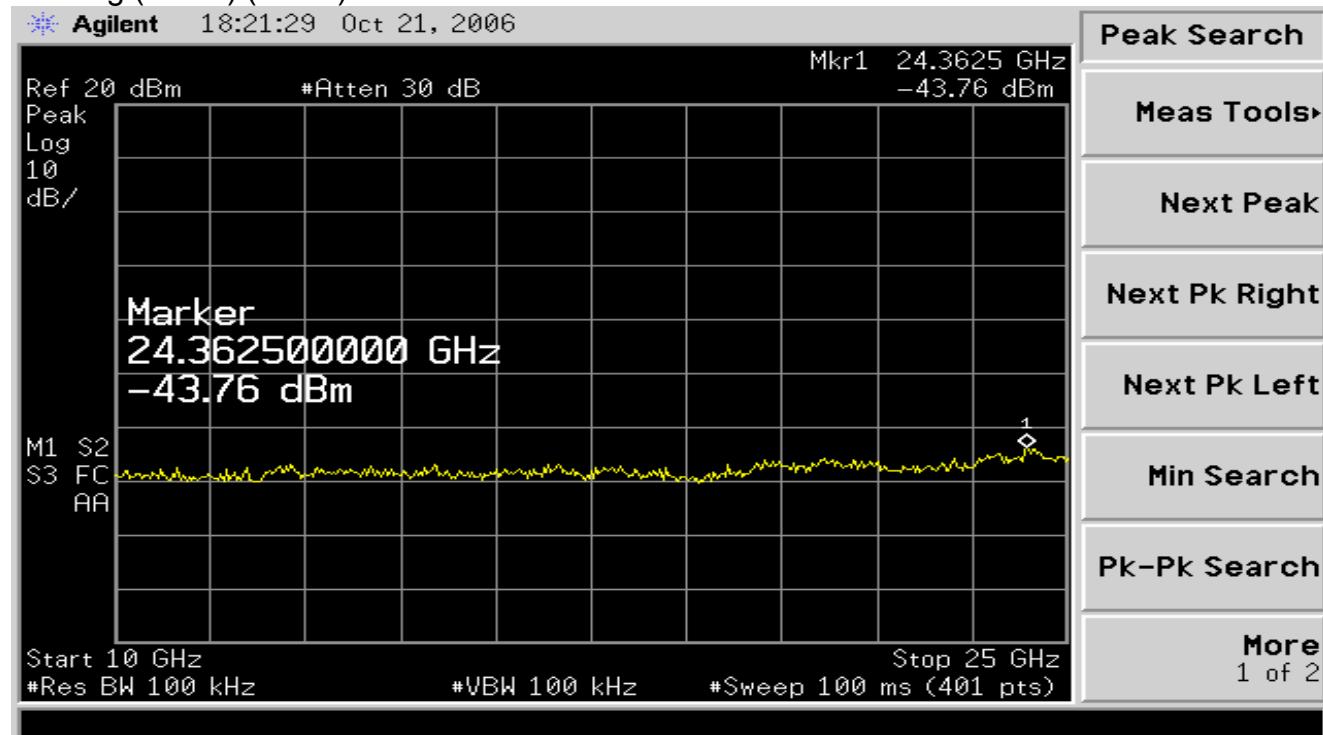
802.11g (CH06) (3 of 5)



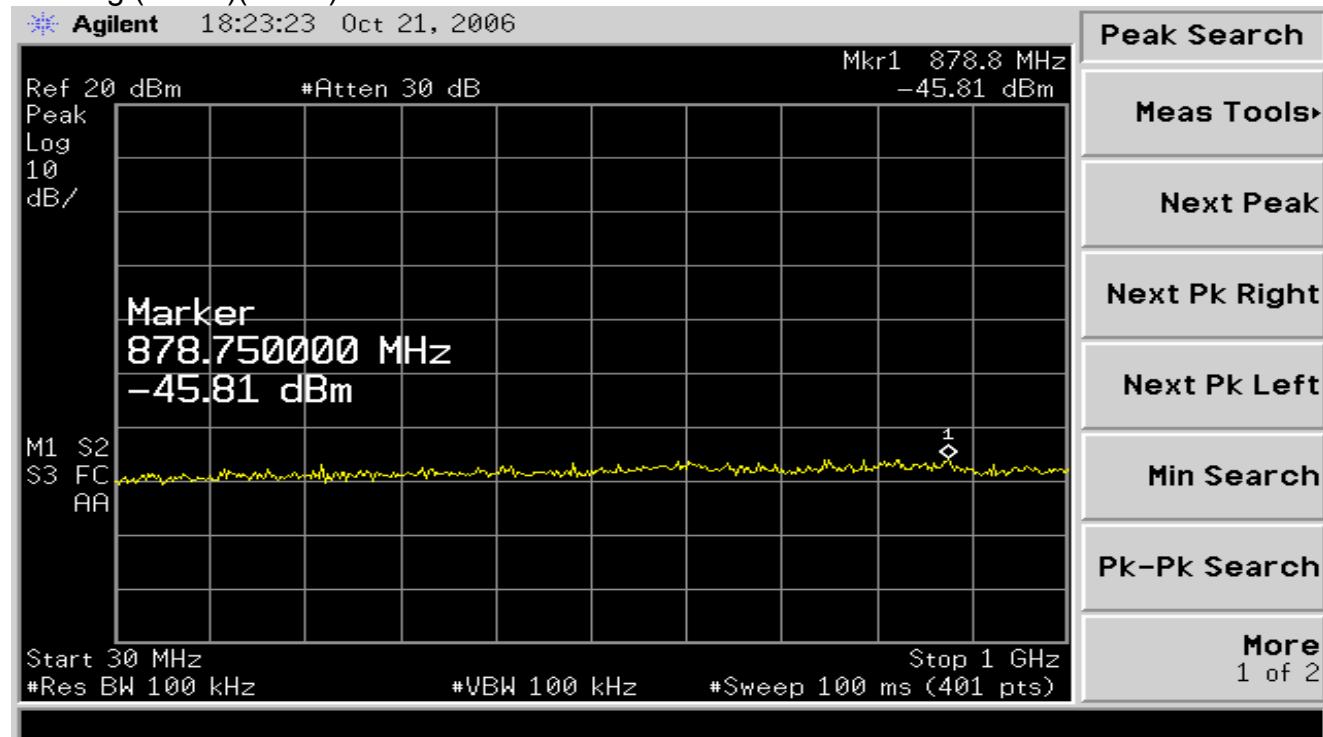
802.11g (CH06) (4 of 5)



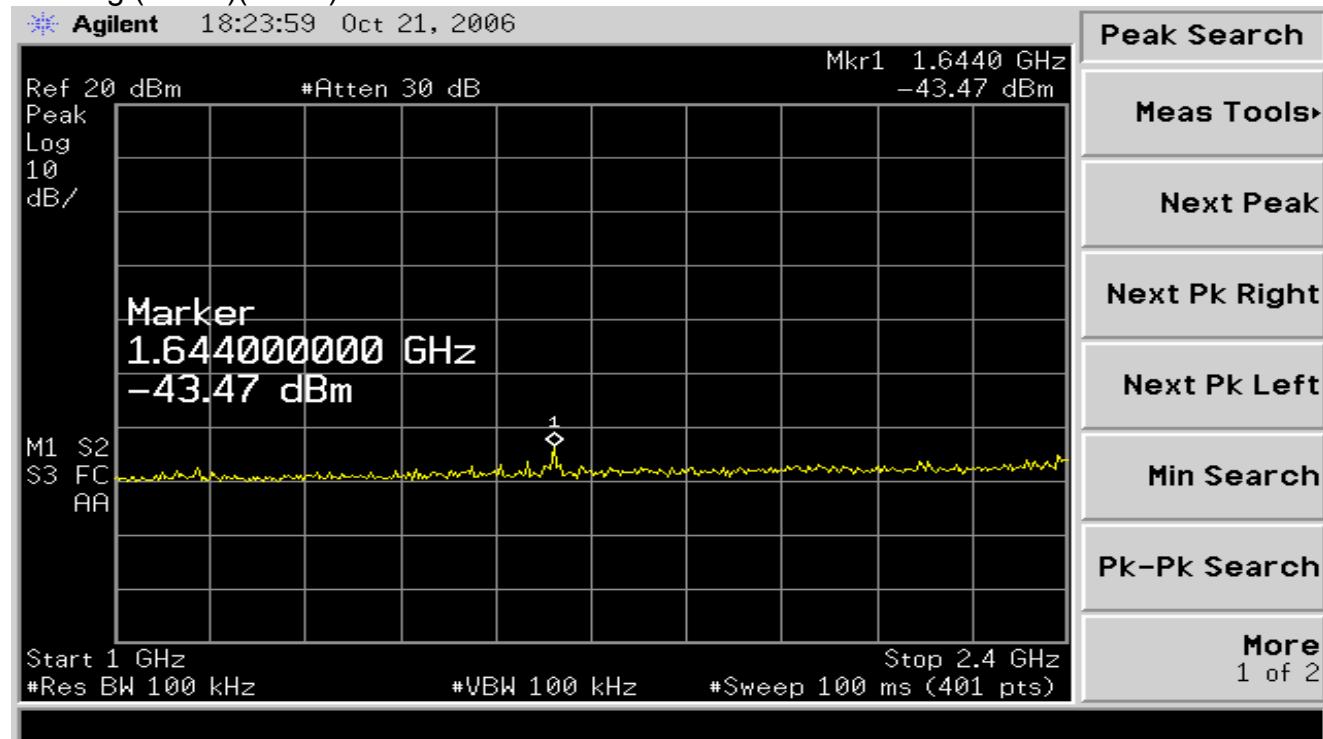
802.11g (CH06) (5 of 5)



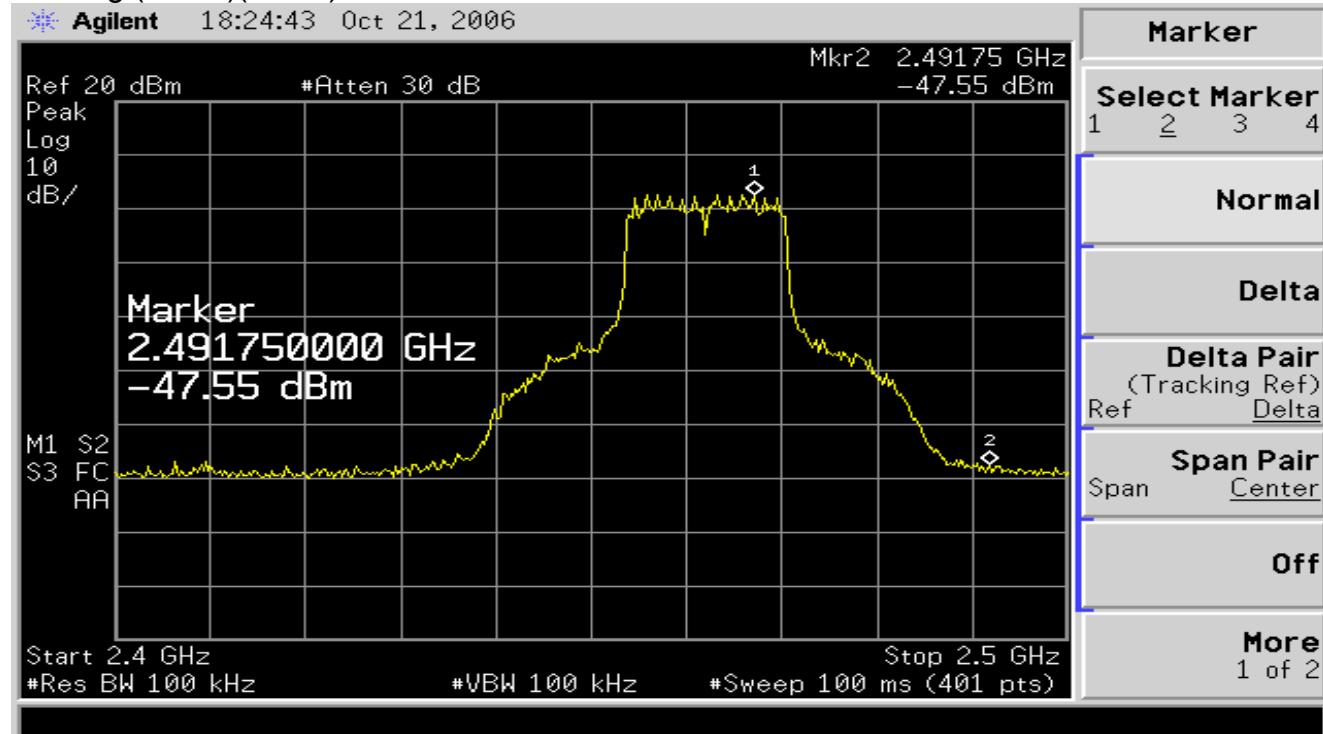
802.11g (CH11)(1 of 5)



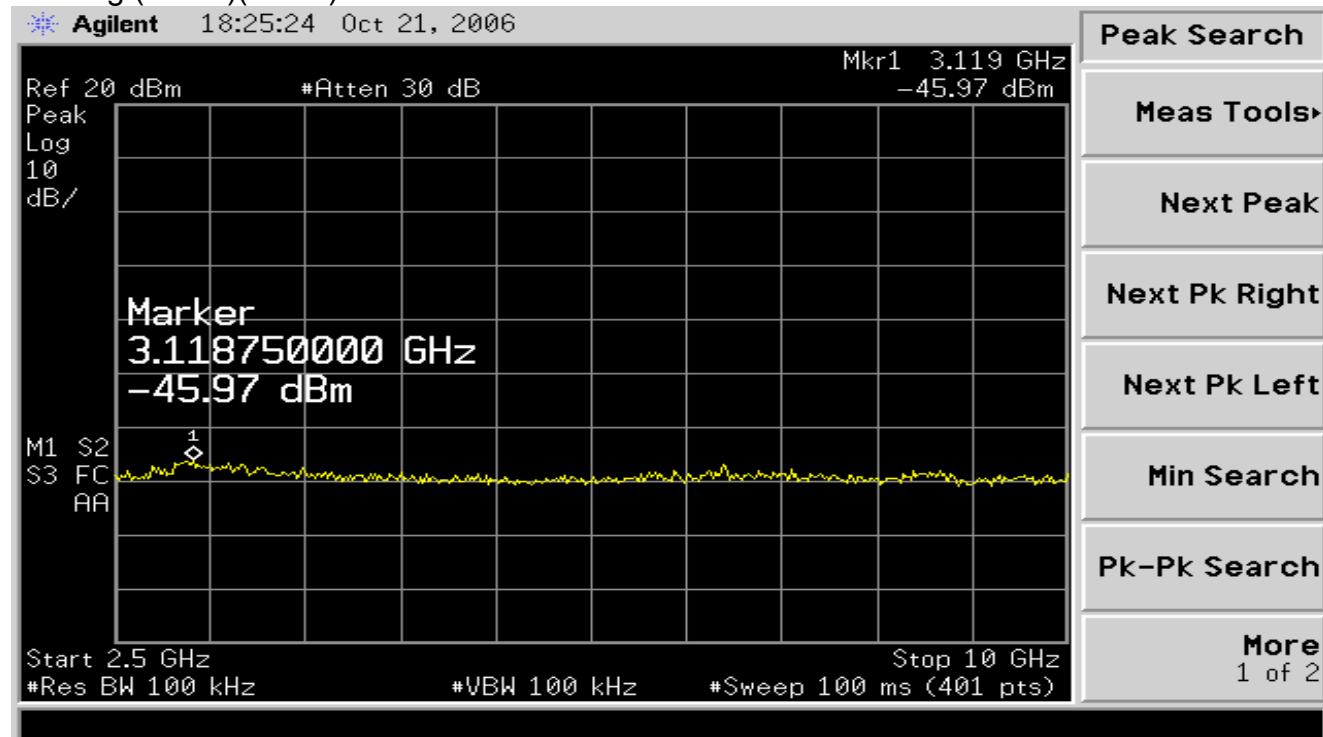
802.11g (CH11)(2 of 5)



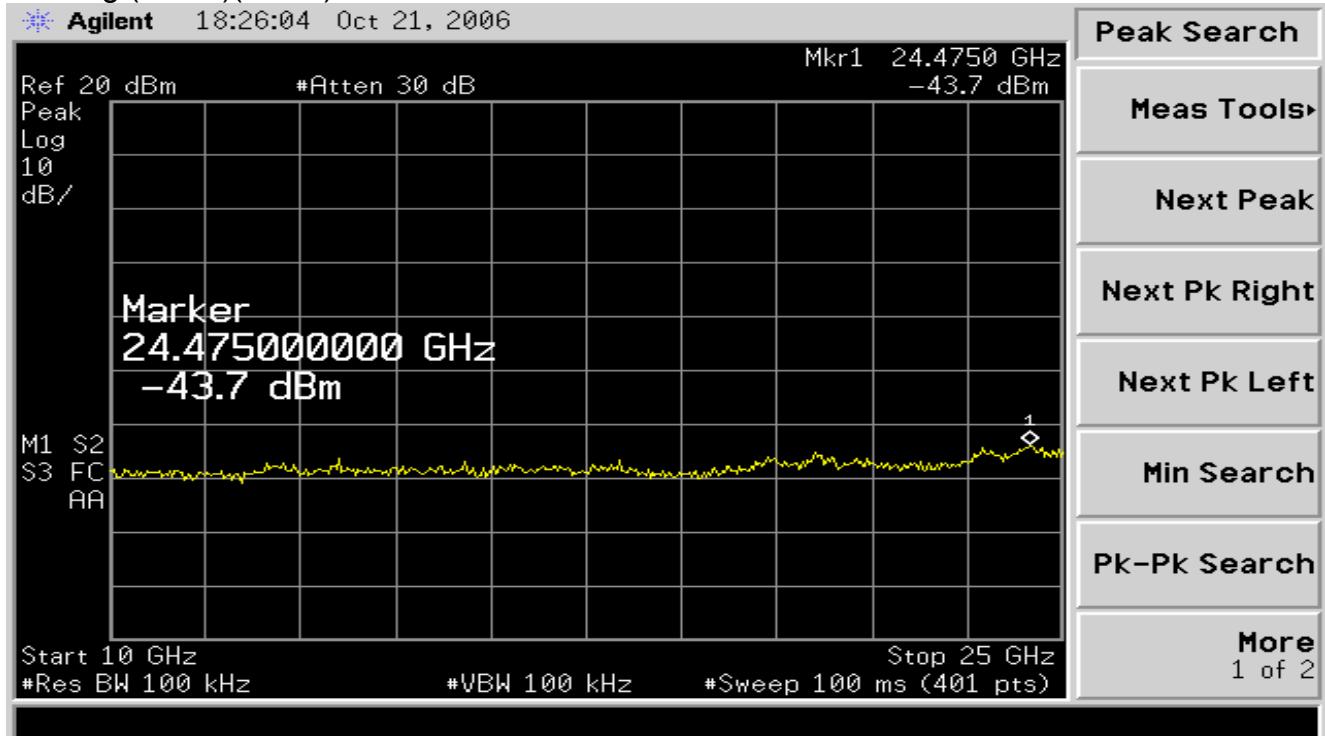
802.11g (CH11)(3 of 5)



802.11g (CH11)(4 of 5)



802.11g (CH11)(5 of 5)



VIII. Band Edges Requirements

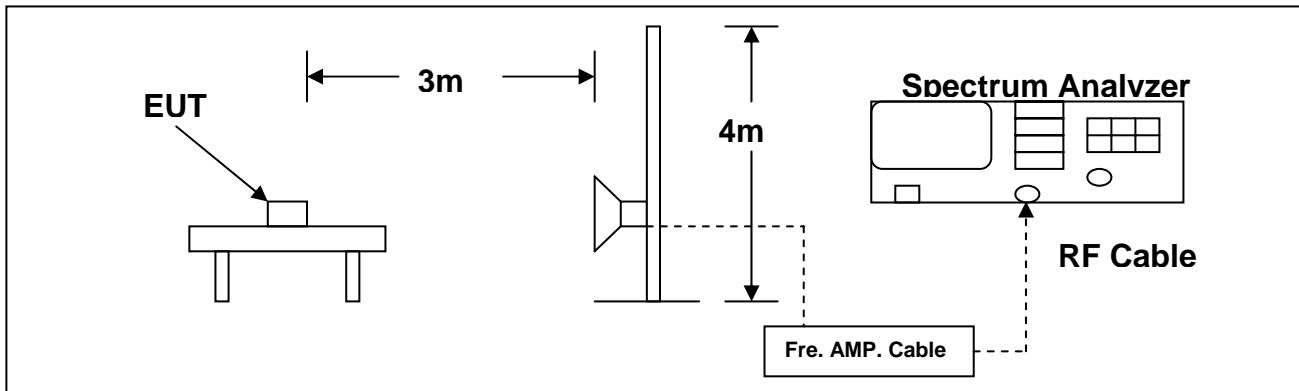
8.1 Test Condition & Setup :

The emissions on the harmonics frequencies, the limits, and the margin of compliance are presented. These tests were made when the transmitter was in full radiated power. The additional test was performed to show compliance with the requirement at the band-edge frequency 2483.5 MHz and up to 2500 MHz and at 2390.0 MHz.

The transmitter was configured with the worst case antenna and setup to transmit at the highest channel. Then the field strength was measured at 2483.5 MHz.

The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel. Then the field strength was measured at 2390.0 MHz. These tests were performed at 4 different bit rates.

8.2 Test Instruments Configuration:



8.3 Test Equipment List:

Item	Mfr/Brand	Instruments	Serial No.	Model/Type No.	Calibrated Date	Next Cali. Date
1.	Agilent	Spectrum Analyzer	US39240419	E4407B	2006/02/01	2007/02/01
2.	HP	Pre Amplifier	3008A01463	8449B	2006/02/23	2007/02/23
3.	SCHWARZBECK	Horn Antenna	304	BBHA 9120 D	2006/07/06	2007/07/06

8.4 Test Result :

(802.11b)

Radiated Emissions (HORIZONTAL) CH01								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2387.40	58.24 (PK)	1	300	0	9.54	48.70	74.00	-25.30
2387.40	N/A (AV)	N/A	N/A	0	9.54	N/A	54.00	N/A

Radiated Emissions (VERTICAL) CH01								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2385.60	58.02 (PK)	1	300	0	9.54	48.48	74.00	-25.52
2385.60	N/A (AV)	N/A	N/A	0	9.54	N/A	54.00	N/A

Radiated Emissions (HORIZONTAL) CH11								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2487.65	56.90 (PK)	1	210	0	9.54	47.36	74.00	-26.64
2487.65	N/A (AV)	N/A	N/A	0	9.54	N/A	54.00	N/A

Radiated Emissions (VERTICAL) CH11								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2488.90	55.87 (PK)	1	210	0	9.54	46.33	74.00	-27.67
2488.90	N/A (AV)	N/A	N/A	0	9.54	N/A	54.00	N/A

Notes : 1. Margin= Amplitude - Limits

2. Height of table for EUT placed: 0.8 Meter.

3.ANT= Antenna height.

4. Duty= Duty cycle correction factor.

5. Dis= Distance extrapolation factor.

6. Amplitude = Reading Amplitude – Amplifier gain + Cable loss + Antenna factor
(Auto calculate in spectrum analyzer)

7 Actual Amp= Amplitude = Duty = Dis

8. N/A: When the peak level is lower than the average limit, it is no need to measure the average level

8.5 Test Result :

(802.11g)

Radiated Emissions (HORIZONTAL) CH1								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2389.92	56.42 (PK)	1	320	0	9.54	46.88	74.00	-27.12
2389.92	N/A (AV)	N/A	N/A	0	9.54	N/A	54.00	N/A
Radiated Emissions (VERTICAL) CH1								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2389.65	60.36 (PK)	1	320	0	9.54	50.82	74.00	-23.18
2389.65	N/A (AV)	N/A	N/A	0	9.54	N/A	54.00	N/A

Radiated Emissions (HORIZONTAL) CH11								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2484.55	56.06 (PK)	1	180	0	9.54	46.52	74.00	-27.48
2484.40	N/A (AV)	N/A	N/A	0	9.54	N/A	54.00	N/A

Radiated Emissions (VERTICAL) CH11								
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2483.50	60.94 (PK)	1	180	0	9.54	51.40	74.00	-22.60
2483.50	N/A (AV)	N/A	N/A	0	9.54	N/A	54.00	N/A

Notes : 1. Margin = Amplitude - Limits

2. Height of table for EUT placed: 0.8 Meter.

3. ANT= Antenna height.

4. Duty= Duty cycle correction factor.

5. Dis= Distance extrapolation factor.

6. Amplitude = Reading Amplitude – Amplifier gain + Cable loss + Antenna factor
(Auto calculate in spectrum analyzer)

7. Actual Amp= Amplitude – Duty – Dis.

8. N/A: When the peak level is lower than the average limit, it is no need to measure the average level.

IX. Antenna Requirements

9.1 Standard Applicable :

For intentional device, according to 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

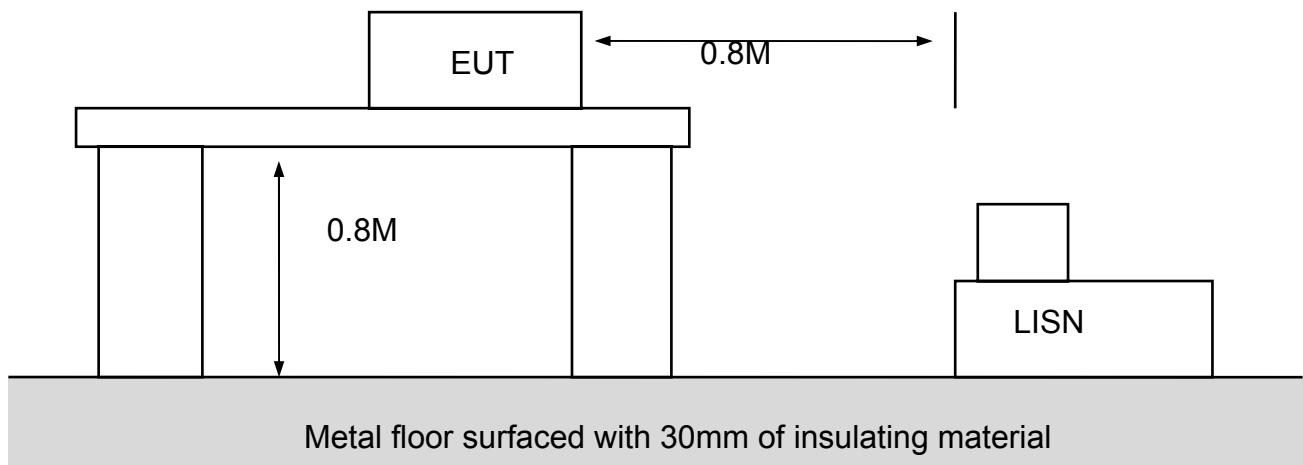
And According to 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

9.2 Antenna Connector Construction

The antenna used in this product is $1/4\lambda$ Dipole Sleeve antenna . And the maximum Gain of this antenna is only 2.0 dBi .

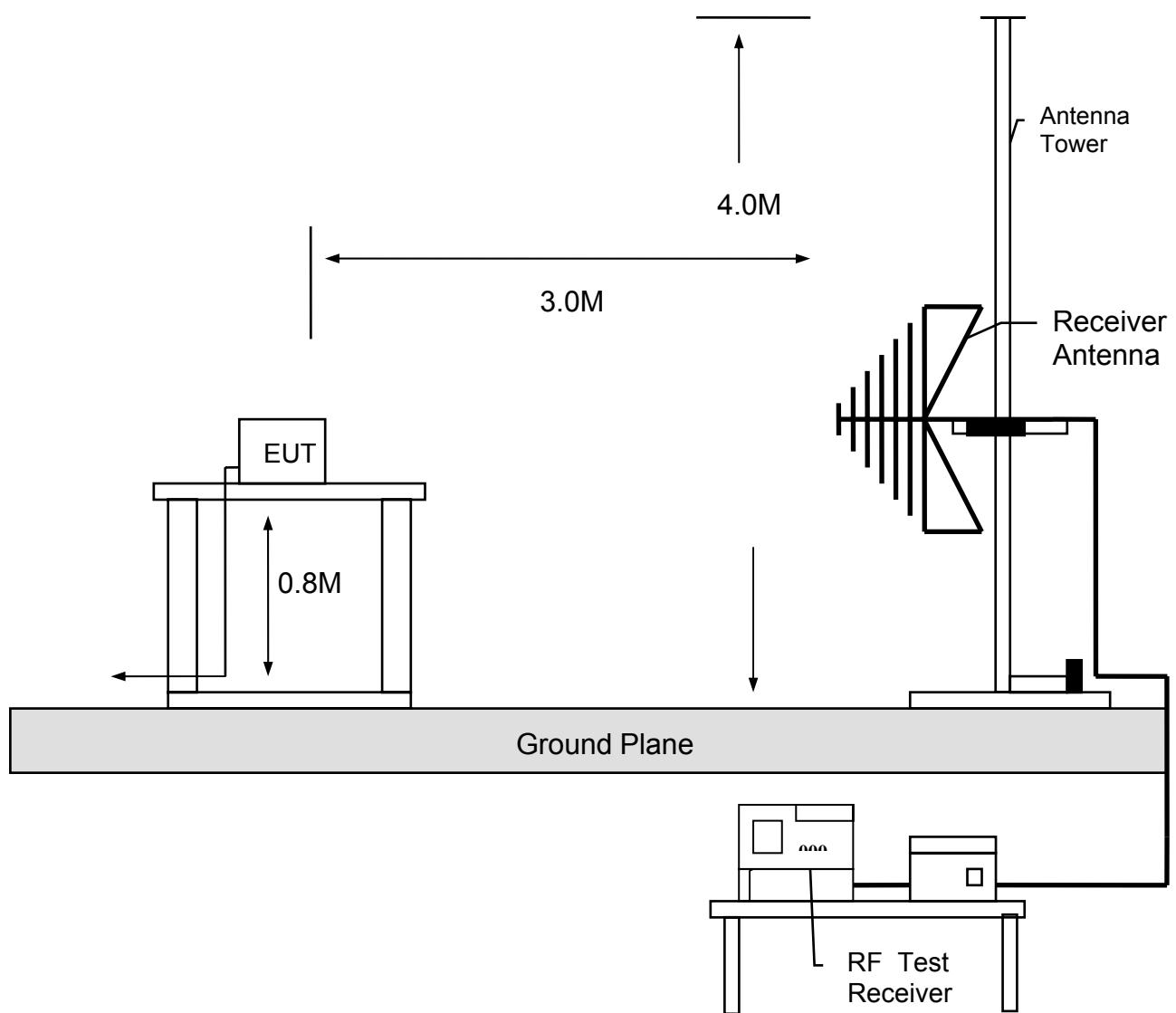
Appendix I- EUT Test SETUP

MEASUREMENT OF POWER LINE CONDUCTED RFI VOLTAGE



Appendix I - EUT Test SETUP

MEASUREMENT OF RADIATED EMISSION



Appendix II - (Brand / Trade Name & Model No. List)

Model No.	Trade Name
AWP-914T NV-914T WA- 2510 HWGPCMCIA-54 TER/GCBA2	Amigo Novatech Sapido Hercules Amigo Communication, INC. Guillemot Thrustmaster Natopia