Measurement Report

Part 15 Subpart B & C (15.247)

Product	: Wireless Router for ADSL
Applicant	: HON HAI PRECISION IND. CO., LTD.
FCC ID	: MCLT07AW
Model No.	: T07L022(T07AW)
Report No.	: MLT0507P15003
Issue Date	: July 22, 2005

Test By

Max Light Technology Co.,Ltd.

Room 5, 8F, No.125, Section 3 Roosevelt Road, Taipei, Taiwan., R.O.C. Tel: 886-2-2363-2447 Fax: 886-2-2363-2597

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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).

EUT	: Wireless Router for ADSL
Applicant	: HON HAI PRECISION IND. CO., LTD. 5F-1,5 Hsin-An Road,Hsinchu Science-Based Industrial Park, Taiwan , R.O.C.
Manufacturer	: Hong Fu Jin Precision Industry (Shenzhen) Co., Ltd. No. 2, 2nd Dong Huan Road, 10th You Song Industrial District Long Hua Town, Baoan, Shenzhen City, Guangdong, China

Model No : T07L022(T07AW)

FCC ID : MCLT07AW

Prepared by : Jesse Tien Approved by : Reger Che Jesse Tien



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I. GENERAL

1.1 Introduction

The following measurement report is submitted on behalf of HON HAI PRECISION IND. CO., LTD. In support of a Class B Digital Device certification in accordance with Part2 Subpart J and Part 15 Subpart A And B&C of the Commission's and Regulations.

1.2 Description of EUT

EUT	: Wireless Router for ADSL		
Applicant	: HON HAI PRECISION IND. CO., LTD. 5F-1,5 Hsin-An Road,Hsinchu Science-Based Industrial Park, Taiwan , R.O.C.		
Manufacturer	: Hong Fu Jin Precision Industry (Shenzhen) Co., Ltd. No. 2, 2nd Dong Huan Road, 10th You Song Industrial District Long Hua Town, Baoan, Shenzhen City, Guangdong, China		
Model No	: T07L022(T07AW)		
FCC ID	: MCLT07AW		
Power Type	: Powered by AC Adapter (120V@60Hz-21W) Model No.: RH41-1650800AU		
Frequency of Channel: See Next page			
Type of Modulation	: Direct Sequence Spread Spectrum		
Type of Antenna	: 1/4 DIOPLE Antenna		

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.



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

2462

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

1.3 Summary Of Tests

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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		





1.4 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.

Computer	: IBM
Model No.	: 16W
Serial No.	: BNL345M
FCC ID	: FCC DOC
Monitor	: IBM
Model No.	: 10L6145 030
Serial No.	: 23-092079
FCC ID	: FCC DOC
Keyboard	: IBM
Model No.	: KB-9930
Serial No.	: 09N5395
FCC ID	: FCC DOC
Mouse	: IBM
Model No.	: 0180-05N
Serial No.	: 23-96142
FCC ID	: EMJMUSJJ
Modem	: ASKEY
Model No.	: 141428
Serial No.	: N/A
FCC ID	: FCC DOC
Printer	: Panasonic
Model No.	: KX-P1121
Serial No.	: 7CKAKE98933
FCC ID	: FCC DOC

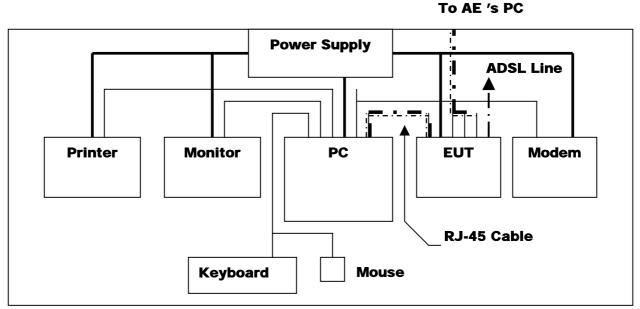


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1.5 Configuration of System Under Test



During testing the EUT(Router) 's LAN / L1&L2&L3&L4 Ethernet port connected to the Remote Ethernet and ADSL port connected to the Remote ADSL simulator. So there is need for additional Ethernet card.

1.6 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."

1.7 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.

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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:

- A. EMCO 3825/2 LISN (S/N:2654)
- B. EMCO 3825/2 LISN (S/N:2658)
- C. HP 8591EM 9KHZ-1.8GHz Spectrum Analyzer (S/N:73412A00110)
- D. R&S ESH3 Test Receiver (S/N:892108/025)
- E. Shielded Room (MLT-SR1)



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2.3 Test Configuration:



Front View of The Test Configuration



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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	Limits (dBuV)		
(MHz)	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	

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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 NATURAL conductor of the EUT power.

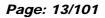
Applicant	: HON HAI PRECISION IND. CO., LTD.
Model No	: T07L022(T07AW)
EUT	: Wireless Router for ADSL
Test Mode	: 802.11b (CH01)
Test Date	: 07/26/2005

Power Line Conducted Emissions (Class B)					
Conductor	Frequency	Quasi-Peak	Limits	Average	Limits
	(MHz)	(dBuV)		(dBuV)	
	0.16	53.92	65.30	46.80	55.30
	0.22	50.72	62.66	44.30	52.66
	0.25	50.24	61.60	43.70	51.60
L1	0.40	43.01	57.73		47.73
	8.78	46.31	60		50
	9.45	46.60	60		50
	16.23	44.42	60		50
	0.17	53.26	64.64	46.10	54.64
	0.25	50.33	61.60	44.30	51.60
	0.44	46.08	56.89	39.10	46.89
L2	1.28	47.64	56	40.10	46
	2.99	45.08	56	39.00	46
	9.45	46.35	60		50
	16.23	46.71	60		50

Notes :1.L1: One end & Ground L2: The other end & Ground2.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.





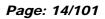
2.6.2 Conducted Emissions (Subpart B & C)

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

Applicant	: HON HAI PRECISION IND. CO., LTD.
Model No	: T07L022(T07AW)
EUT	: Wireless Router for ADSL
Test Mode	: 802.11b (CH06)
Test Date	: 07/26/2005

Power Line Conducted Emissions (Class B)					
Conductor	Frequency Quasi-Peak Limits A			Average	Limits
	(MHz)	(dBuV)		(dBuV)	
	0.15	53.52	66.00		56.00
	0.21	51.10	63.01		53.01
	0.28	47.57	60.63		50.63
L1	0.40	43.01	57.73		47.73
	1.24	43.19	56		46
	9.30	45.96	60		50
	15.39	46.51	60		50
	0.17	52.40	64.90		54.90
	0.37	45.68	58.43		48.43
	1.28	42.64	56		46
L2	2.01	41.33	56		46
	3.06	41.52	56		46
	15.23	46.18	60		50
	20.06	46.76	60		50

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





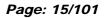
2.6.3 Conducted Emissions (Subpart B & C)

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

Applicant	: HON HAI PRECISION IND. CO., LTD.
Model No	: T07L022(T07AW)
EUT	: Wireless Router for ADSL
Test Mode	: 802.11b (CH11)
Test Date	: 07/26/2005

Power Line Conducted Emissions (Class B)					
Conductor	Frequency (MHz)	Quasi-Peak (dBuV)	Limits	Average (dBuV)	Limits
	0.16	53.92	65.30		55.30
	0.25	48.24	61.60		51.60
	0.40	43.01	57.73		47.73
L1	1.24	42.19	56		46
	9.40	44.10	60		50
	16.14	46.64	60		50
	20.59	43.86	60		50
	0.15	53.60	66.00		56.00
	0.17	53.26	64.64		54.64
	0.22	48.37	62.48		52.48
L2	1.05	43.68	56		46
	1.28	45.64	56	41.20	46
	1.93	43.67	56		46
	3.06	44.52	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.





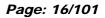
2.6.4 Conducted Emissions (Subpart B & C)

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

Applicant	: HON HAI PRECISION IND. CO., LTD.
Model No	: T07L022(T07AW)
EUT	: Wireless Router for ADSL
Test Mode	: 802.11g (CH01)
Test Date	: 07/26/2005

Power Line Conducted Emissions (Class B)					
Conductor	Frequency	Frequency Quasi-Peak		Average	Limits
	(MHz)	(dBuV)		(dBuV)	
	0.16	52.92	65.30		55.30
	0.26	48.82	61.29		51.29
	0.42	43.25	57.33		47.33
L1	0.49	41.48	56.01		46.01
	1.24	43.19	56		46
	9.11	44.72	60		50
	13.48	44.12	60		50
	0.15	53.60	66.00		56.00
	0.21	48.94	62.88		52.88
	0.44	43.08	56.89		46.89
L2	1.28	42.64	56		46
	1.57	42.65	56		46
	10.07	47.06	60		50
	21.04	47.51	60		50

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





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 NATURAL conductor of the EUT power.

Applicant	: HON HAI PRECISION IND. CO., LTD.
Model No	: T07L022(T07AW)
EUT	: Wireless Router for ADSL
Test Mode	: 802.11g (CH06)
Test Date	: 07/26/2005

Power Line Conducted Emissions (Class B)					
Conductor	Frequency	Quasi-Peak	Limits	Average	Limits
	(MHz)	(dBuV)		(dBuV)	
	0.15	53.52	66.00		56.00
	0.22	50.72	62.66		52.66
	0.48	42.54	56.27		46.27
L1	1.24	43.19	56		46
	9.76	44.02	60		50
	13.41	42.73	60		50
	15.31	44.88	60		50
	0.15	54.25	66.00		56.00
	0.18	51.09	64.28		54.28
	1.04	42.98	56		46
L2	1.28	46.64	56	40.20	46
	1.86	43.93	56		46
	17.02	47.72	60		50
	20.27	46.92	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.

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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 NATURAL conductor of the EUT power.

Applicant	: HON HAI PRECISION IND. CO., LTD.
Model No	: T07L022(T07AW)
EUT	: Wireless Router for ADSL
Test Mode	: 802.11g (CH11)
Test Date	: 07/26/2005

Power Line Conducted Emissions (Class B)					
Conductor	Frequency	Quasi-Peak	Limits	Average	Limits
	(MHz)	(dBuV)		(dBuV)	
	0.15	53.52	66.00		56.00
	0.17	52.31	64.64		54.64
	0.28	47.57	60.63		50.63
L1	0.40	43.01	57.73		47.73
	1.24	45.19	56	38.30	46
	13.34	44.58	60		50
	16.84	44.81	60		50
	0.15	53.60	66.00		56.00
	0.17	52.26	64.64		54.64
	0.44	43.08	56.93		46.93
L2	1.26	46.00	56	39.60	46
	1.59	46.40	56	39.90	46
	2.98	43.81	56		46
	16.14	44.88	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.

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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.

3.2 General Configuration:

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 supporting the EUT for standing on tree 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.

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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 microvlt (dBuV) into field intensity in microvolts pre meter(uV/m).

The actual field intensity in decibels referenced to 1 microvolt in to field intensity in microcolts per meter (dBuV/m).

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



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(1) Amplitude (dBuV/m)= FI(dBuV)+AF(dBuV)+CL(dBuV)-Gain(dB)

FI= Reading of the field intensity. AF= Antenna factor. CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

(2) Actual Amplitude (dBuV/m)= Amplitude (dBuV)-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

3.3 Test Equipment List:

- A. HP 8591EM 9KHz-1.8GHz Spectrum Analyzer (S/N:73412A00230)
- **B. HP 8447D Pre Amplifier (S/N:2944A08954)**
- C. EMCO 3142 26MHz~2000MHz Biconilog Antenna (S/N:1184)
- D. R&S ESVP 20MHz~1300MHz Test Receiver (S/N:881121/01)
- E. Agilent E4407B 9KHz-26.5GHz Spectrum Analyzer (S/N:A872JS02291)
- F. HP 8449B 1GHZ~26.5GHZ PRE Amplifier (S/N:1982901A91)
- G. SCHWARZBECK BBHA 9120D 1GHz~18GHz Horn Antenna (S/N:141S3)
- H. SCHWARZBECK BBHA 9170 15GHz~40GHz Horn Antenna (S/N:192S5)



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3.4 Test Configuration:



Front View of The Test Configuration



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Rear View of The Test Configuration

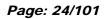


3.5 Test condition:

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

3.6 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





3.7 Measurement Data Of Radiated Emissions:

3.7.1 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	: HON HAI PRECISION IND. CO., LTD.
Model No	: T07L022(T07AW)
EUT	: Wireless Router for ADSL
Test Mode	: 802.11b (CH06)
Test Date	: 07/27/2005

Radiated Emissions (HORIZONTAL)						
Frequency	Amplitude	Amplitude Ant. Table Limits(Class B) Margin				
(MHz)	(dBuV/m)	(m)	(Degree)	(dBuV/m)	(dB)	
81.20	33.27	2.5	100	40	-6.73	
99.11	34.75	2.2	260	43.5	-8.75	
166.68	33.30	2.7	310	43.5	-10.20	
198.74	33.93	2.2	330	43.5	-9.57	
233.35	41.61	1.2	120	46	-4.39	
300.00	42.50	1.6	210	46	-3.50	
400.00	42.96	1.2	320	46	-3.04	
480.00	42.10	1.4	330	46	-3.90	
600.00	41.34	1.5	310	46	-4.66	
645.00	41.64	1.8	350	46	-4.36	
720.00	42.66	2	200	46	-3.34	

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

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3.7.2 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	: HON HAI PRECISION IND. CO., LTD.
Model No	: T07L022(T07AW)
EUT	: Wireless Router for ADSL
Test Mode	: 802.11b (CH06)
Test Date	: 07/27/2005

Radiated Emissions (VERTICAL)									
Frequency	Amplitude	mplitude Ant. Table Limits(Class B) Margin							
(MHz)	(dBuV/m)	(m)	(Degree)	(dBuV/m)	(dB)				
79.43	34.78	1	250	40	-5.22				
98.48	36.26	1.5	330	43.5	-7.24				
111.62	36.00	2.5	180	43.5	-7.50				
133.33	37.18	3	150	43.5	-6.32				
200.00	35.81	1.5	200	43.5	-7.69				
233.33	44.20	2	310	46	-1.80				
300.00	43.23	1.5	350	46	-2.77				
400.00	43.79	2	310	46	-2.21				
666.69	43.70	1.5	300	46	-2.30				
800.00	42.27	2	220	46	-3.73				
933.36	42.92	1	150	46	-3.08				

*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

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3.7.3 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	: HON HAI PRECISION IND. CO., LTD.
Model No	: T07L022(T07AW)
EUT	: Wireless Router for ADSL
Test Mode	: 802.11g (CH11)
Test Date	: 07/27/2005

Radiated Emissions (HORIZONTAL)										
Frequency	Amplitude	mplitude Ant. Table Limits(Class B) Margin								
(MHz)	(dBuV/m)	(m)	(Degree)	(dBuV/m)	(dB)					
99.01	34.54	2.1	300	43.5	-8.96					
166.68	34.14	2	280	43.5	-9.36					
200.00	35.89	1.5	260	43.5	-7.61					
233.30	42.88	1	200	46	-3.12					
300.41	43.62	1.4	180	46	-2.38					
330.00	41.58	1	120	46	-4.42					
400.00	43.05	1.6	300	46	-2.95					
481.40	42.12	1.4	350	46	-3.88					
600.00	42.42	1.2	240	46	-3.58					
645.00	42.01	1	270	46	-3.99					
720.00	42.19	1.3	320	46	-3.81					

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

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3.7.4 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	: HON HAI PRECISION IND. CO., LTD.
Model No	: T07L022(T07AW)
EUT	: Wireless Router for ADSL
Test Mode	: 802.11g (CH11)
Test Date	: 07/27/2005

Radiated Emissions (VERTICAL)									
Frequency	Amplitude	mplitude Ant. Table Limits(Class B) Margin							
(MHz)	(dBuV/m)	(m)	(Degree)	(dBuV/m)	(dB)				
98.46	34.69	1.2	320	43.5	-8.81				
111.60	36.14	2	300	43.5	-7.36				
133.30	37.10	1.3	140	43.5	-6.40				
200.00	35.77	1	180	43.5	-7.73				
233.28	44.06	1.3	290	46	-1.94				
300.00	42.54	1	300	46	-3.46				
400.01	43.53	2	240	46	-2.47				
639.08	41.69	1.2	200	46	-4.31				
666.71	42.56	1.5	250	46	-3.44				
800.05	41.58	2	300	46	-4.42				
933.36	41.88	1.4	140	46	-4.12				

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

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3.7.5 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	: HON HAI PRECISION IND. CO., LTD.
Model No	: T07L022(T07AW)
EUT	: Wireless Router for ADSL
Test Mode	: 802.11b (CH01)
Test Date	: 08/29/2005

	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)
1440.0	40.76 PK	1	340	0	9.54	31.22	74.00	-42.78
1607.5	46.17 PK	1	280	0	9.54	36.63	74.00	-37.37
4821.4	43.76 PK	1	320	0	9.54	34.22	74.00	-39.78
7894.0	39.52 PK	1	120	0	9.54	29.98	74.00	-44.02
14480.0	43.32 PK	1	220	0	9.54	33.78	74.00	-40.22
16759.0	44.73 PK	1	360	0	9.54	35.19	74.00	-38.81
21805.0	42.18 PK	1	270	0	9.54	32.64	74.00	-41.36

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.Dis= Distance extrapolation factor.

7.Amplitude= Reading Amplitude - Amplifier gain+ Cable loss +Antenna factor

(Auto calculate in spectrum analyzer)

8.Actual Amp= Amplitude - Duty - Dis.

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3.7.6 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	: HON HAI PRECISION IND. CO., LTD.
Model No	: T07L022(T07AW)
EUT	: Wireless Router for ADSL
Test Mode	: 802.11b (CH01)
Test Date	: 08/29/2005

	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	45.17 PK	1	250	0	9.54	35.63	74.00	-38.37
1607.5	46.17 PK	1	300	0	9.54	36.63	74.00	-37.37
4819.5	32.30 PK	1	120	0	9.54	22.76	74.00	-51.24
9642.5	40.48 PK	1	360	0	9.54	30.94	74.00	-43.06
13710.0	42.75 PK	1	200	0	9.54	33.21	74.00	-40.79
16762.0	43.00 PK	1	220	0	9.54	33.46	74.00	-40.54
20205.0	41.48 PK	1	280	0	9.54	31.94	74.00	-42.06

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.Dis= Distance extrapolation factor.

7.Amplitude= Reading Amplitude - Amplifier gain+ Cable loss +Antenna factor

(Auto calculate in spectrum analyzer)

8.Actual Amp= Amplitude - Duty - Dis.

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3.7.7 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	: HON HAI PRECISION IND. CO., LTD.
Model No	: T07L022(T07AW)
EUT	: Wireless Router for ADSL
Test Mode	: 802.11b (CH06)
Test Date	: 08/29/2005

	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)
1440.0	44.76 PK	1	290	0	9.54	35.22	74.00	-38.78
7075.0	44.81 PK	1.1	360	0	9.54	35.27	74.00	-38.73
7907.0	46.05 PK	1	210	0	9.54	36.51	74.00	-37.49
9747.5	42.87 PK	1	270	0	9.54	33.33	74.00	-40.67
13737.0	41.66 PK	1	330	0	9.54	32.12	74.00	-41.88
14557.0	43.20 PK	1	200	0	9.54	33.66	74.00	-40.34
20950.0	43.92 PK	1	180	0	9.54	34.38	74.00	-39.62

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.Dis= Distance extrapolation factor.

7.Amplitude= Reading Amplitude - Amplifier gain+ Cable loss +Antenna factor

(Auto calculate in spectrum analyzer)

8.Actual Amp= Amplitude - Duty - Dis.

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3.7.8 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	: HON HAI PRECISION IND. CO., LTD.
Model No	: T07L022(T07AW)
EUT	: Wireless Router for ADSL
Test Mode	: 802.11b (CH06)
Test Date	: 08/29/2005

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)	
1625.0	44.38 PK	1	270	0	9.54	34.84	74.00	-39.16	
4871.5	42.59 PK	1	240	0	9.54	33.05	74.00	-40.95	
7312.0	43.55 PK	1	210	0	9.54	34.01	74.00	-39.99	
9746.5	40.93 PK	1.2	320	0	9.54	31.39	74.00	-42.61	
13745.0	43.01 PK	1	300	0	9.54	33.47	74.00	-40.53	
14466.0	43.12 PK	1	200	0	9.54	33.58	74.00	-40.42	
21915.0	42.33 PK	1	120	0	9.54	32.79	74.00	-41.21	

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.Dis= Distance extrapolation factor.

7.Amplitude= Reading Amplitude - Amplifier gain+ Cable loss +Antenna factor

(Auto calculate in spectrum analyzer)

8.Actual Amp= Amplitude - Duty - Dis.

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3.7.9 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	: HON HAI PRECISION IND. CO., LTD.
Model No	: T07L022(T07AW)
EUT	: Wireless Router for ADSL
Test Mode	: 802.11b (CH11)
Test Date	: 08/29/2005

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)	
1440.0	46.32 PK	1	270	0	9.54	36.78	74.00	-37.22	
4917.0	43.78 PK	1	240	0	9.54	34.24	74.00	-39.76	
6547.5	44.93 PK	1.2	110	0	9.54	35.39	74.00	-38.61	
9843.5	47.83 PK	1	200	0	9.54	38.29	74.00	-35.71	
13927.0	45.09 PK	1	300	0	9.54	35.55	74.00	-38.45	
14431.0	46.08 PK	1.1	260	0	9.54	36.54	74.00	-37.46	
20115.0	44.71 PK	1	320	0	9.54	35.17	74.00	-38.83	

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.Dis= Distance extrapolation factor.

7.Amplitude= Reading Amplitude - Amplifier gain+ Cable loss

+Antenna factor

(Auto calculate in spectrum analyzer)

8.Actual Amp= Amplitude - Duty - Dis.

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3.7.10 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	: HON HAI PRECISION IND. CO., LTD.
Model No	: T07L022(T07AW)
EUT	: Wireless Router for ADSL
Test Mode	: 802.11b (CH11)
Test Date	: 08/29/2005

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)	
1640.0	45.39 PK	1	270	0	9.54	35.85	74.00	-38.15	
4917.0	43.38 PK	1.2	210	0	9.54	33.84	74.00	-40.16	
6561.5	44.18 PK	1	300	0	9.54	34.64	74.00	-39.36	
9844.0	44.97 PK	1	320	0	9.54	35.43	74.00	-38.57	
13857.0	43.12 PK	1	160	0	9.54	33.58	74.00	-40.42	
18375.0	42.55 PK	1	210	0	9.54	33.01	74.00	-40.99	
24398.5	48.36 PK	1	280	0	9.54	38.82	74.00	-35.18	

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.Dis= Distance extrapolation factor.

7.Amplitude= Reading Amplitude - Amplifier gain+ Cable loss +Antenna factor

(Auto calculate in spectrum analyzer)

8.Actual Amp= Amplitude - Duty - Dis.

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3.7.11 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	: HON HAI PRECISION IND. CO., LTD.
Model No	: T07L022(T07AW)
EUT	: Wireless Router for ADSL
Test Mode	: 802.11g (CH01)
Test Date	: 08/29/2005

	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)		
1440.0	45.86 PK	1	220	0	9.54	36.32	74.00	-37.68		
3682.5	47.22 PK	1.2	260	0	9.54	37.68	74.00	-36.32		
4826.5	46.85 PK	1	360	0	9.54	37.31	74.00	-36.69		
7127.0	45.16 PK	1	320	0	9.54	35.62	74.00	-38.38		
8706.5	45.74 PK	1.1	140	0	9.54	36.20	74.00	-37.80		
14466.0	46.42 PK	1	180	0	9.54	36.88	74.00	-37.12		
18205.0	43.99 PK	1	210	0	9.54	34.45	74.00	-39.55		

*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.Dis= Distance extrapolation factor.

7.Amplitude= Reading Amplitude - Amplifier gain+ Cable loss

+Antenna factor

(Auto calculate in spectrum analyzer)

8.Actual Amp= Amplitude - Duty - Dis.

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3.7.12 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	: HON HAI PRECISION IND. CO., LTD.
Model No	: T07L022(T07AW)
EUT	: Wireless Router for ADSL
Test Mode	: 802.11g (CH01)
Test Date	: 08/29/2005

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)
1607.5	45.25 PK	1	330	0	9.54	35.71	74.00	-38.29
3683.0	47.41 PK	1	250	0	9.54	37.87	74.00	-36.13
4827.0	46.83 PK	1.1	270	0	9.54	37.29	74.00	-36.71
9642.5	45.79 PK	1	300	0	9.54	36.25	74.00	-37.75
13962.0	42.62 PK	1	150	0	9.54	33.08	74.00	-40.92
16986.0	43.18 PK	1	320	0	9.54	33.64	74.00	-40.36
20865.0	42.06 PK	1	180	0	9.54	32.52	74.00	-41.48

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.Dis= Distance extrapolation factor.

7.Amplitude= Reading Amplitude - Amplifier gain+ Cable loss

+Antenna factor

(Auto calculate in spectrum analyzer)

8.Actual Amp= Amplitude - Duty - Dis.

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3.7.13 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	: HON HAI PRECISION IND. CO., LTD.
Model No	: T07L022(T07AW)
EUT	: Wireless Router for ADSL
Test Mode	: 802.11g (CH06)
Test Date	: 08/29/2005

	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)		
1440.0	45.08 PK	1	140	0	9.54	35.54	74.00	-38.46		
3802.5	44.27 PK	1	100	0	9.54	34.73	74.00	-39.27		
7887.5	45.60 PK	1	200	0	9.54	36.06	74.00	-37.94		
9746.5	48.06 PK	1	210	0	9.54	38.52	74.00	-35.48		
14361.0	43.66 PK	1.2	290	0	9.54	34.12	74.00	-39.88		
16776.0	46.36 PK	1	170	0	9.54	36.82	74.00	-37.18		
20850.0	43.17 PK	1	360	0	9.54	33.63	74.00	-40.37		

*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.Dis= Distance extrapolation factor.

7.Amplitude= Reading Amplitude - Amplifier gain+ Cable loss

+Antenna factor

(Auto calculate in spectrum analyzer)

8.Actual Amp= Amplitude - Duty - Dis.

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3.7.14 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	: HON HAI PRECISION IND. CO., LTD.
Model No	: T07L022(T07AW)
EUT	: Wireless Router for ADSL
Test Mode	: 802.11g (CH06)
Test Date	: 08/29/2005

	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)
1625.0	48.93 PK	1	250	0	9.54	39.39	74.00	-34.61
3802.5	46.22 PK	1	140	0	9.54	36.68	74.00	-37.32
7211.5	45.19 PK	1	270	0	9.54	35.65	74.00	-38.35
9746.5	46.26 PK	1	220	0	9.54	36.72	74.00	-37.28
14361.0	43.25 PK	1	360	0	9.54	33.71	74.00	-40.29
16720.0	42.99 PK	1	330	0	9.54	33.45	74.00	-40.55
21940.0	43.05 PK	1.1	100	0	9.54	33.51	74.00	-40.49

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.Dis= Distance extrapolation factor.

7.Amplitude= Reading Amplitude - Amplifier gain+ Cable loss

+Antenna factor

(Auto calculate in spectrum analyzer)

8.Actual Amp= Amplitude - Duty - Dis.

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

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3.7.15 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	: HON HAI PRECISION IND. CO., LTD.
Model No	: T07L022(T07AW)
EUT	: Wireless Router for ADSL
Test Mode	: 802.11g (CH11)
Test Date	: 08/29/2005

	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)
1440.0	46.50 PK	1.1	280	0	9.54	36.96	74.00	-37.04
3789.5	46.23 PK	1	110	0	9.54	36.69	74.00	-37.31
7237.5	45.24 PK	1	130	0	9.54	35.70	74.00	-38.30
7920.0	46.48 PK	1	300	0	9.54	36.94	74.00	-37.06
14620.0	43.24 PK	1	360	0	9.54	33.70	74.00	-40.30
16845.5	41.78 PK	1	270	0	9.54	32.24	74.00	-41.76
21915.0	44.52 PK	1.2	290	0	9.54	34.98	74.00	-39.02

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.Dis= Distance extrapolation factor.

7.Amplitude= Reading Amplitude - Amplifier gain+ Cable loss

+Antenna factor

(Auto calculate in spectrum analyzer)

8.Actual Amp= Amplitude - Duty - Dis.

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

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3.7.16 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	: HON HAI PRECISION IND. CO., LTD.
Model No	: T07L022(T07AW)
EUT	: Wireless Router for ADSL
Test Mode	: 802.11g (CH11)
Test Date	: 08/29/2005

	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)
1640.0	48.15 PK	1	360	0	9.54	38.61	74.00	-35.39
3789.5	46.25 PK	1	300	0	9.54	36.71	74.00	-37.29
7159.5	44.87 PK	1	280	0	9.54	35.33	74.00	-38.67
9844.0	47.24 PK	1.1	310	0	9.54	37.70	74.00	-36.30
13906.0	43.32 PK	1	150	0	9.54	33.78	74.00	-40.22
16846.0	43.26 PK	1	270	0	9.54	33.72	74.00	-40.28
21915.0	42.64 PK	1	240	0	9.54	33.10	74.00	-40.90

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.Dis= Distance extrapolation factor.

7.Amplitude= Reading Amplitude - Amplifier gain+ Cable loss +Antenna factor

(Auto calculate in spectrum analyzer)

8.Actual Amp= Amplitude - Duty - Dis.

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

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MAX LIGHT

MEASUREMENT REPORT

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.

Spectrum Analyzer

4.2 Test Instruments Configuration:



MAX LIGHT MEASUREMENT REPORT

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4.3 Test Equipment List:

A. Agilent E4407B 9KHz-26.5GHz Spectrum Analyzer (S/N:A872JS02291)

- B. HP 8449B 1GHZ~26.5GHZ PRE Amplifier (S/N:1982901A91)
- C. Shielded Room (MLT-SR1)

4.4 Test Result:

802.11b

Frequency (MHz)	Output(dBm)	Required Limit
2412	10.93	<30dBm
2437	10.25	<30dBm
2462	9.77	<30dBm

802.11g

Frequency (MHz)	Output(dBm)	Required Limit
2412	12.16	<30dBm
2437	12.02	<30dBm
2462	12.16	<30dBm

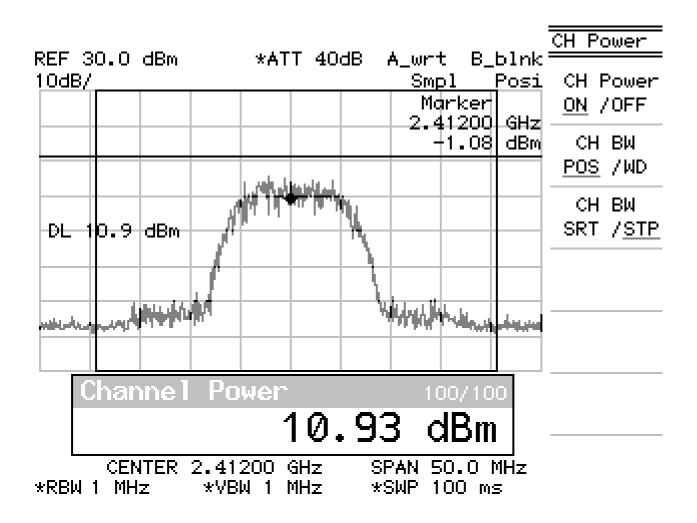
Note :Test Graphs See next page.



MEASUREMENT REPORT

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802.11b (2412MHz)

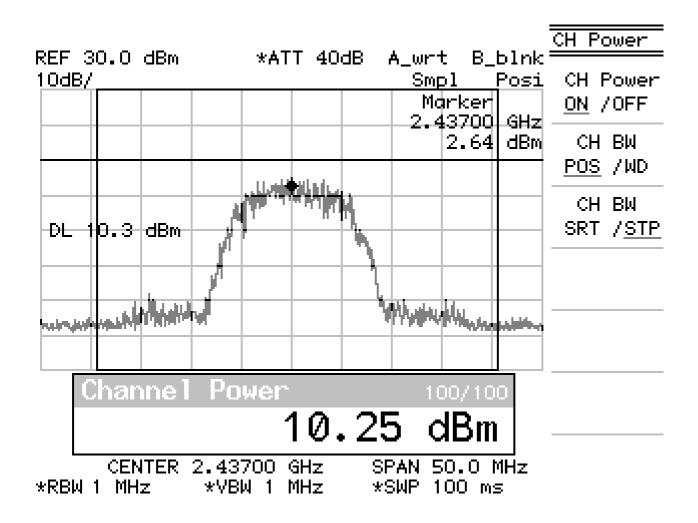




MEASUREMENT REPORT

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802.11b (2437MHz)

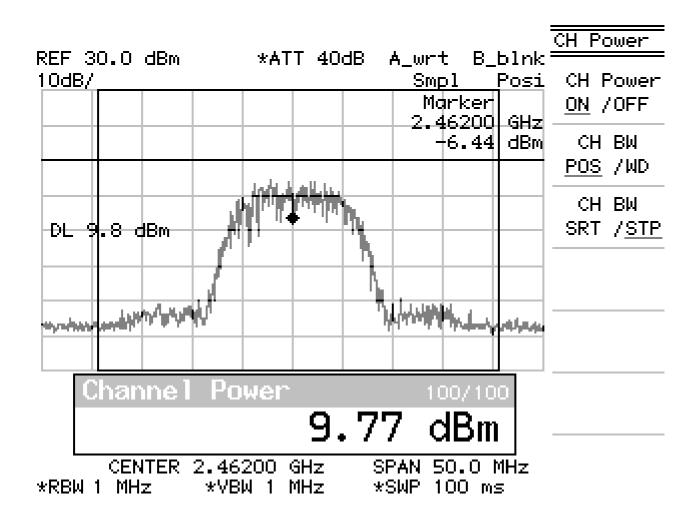




MEASUREMENT REPORT

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802.11b (2462MHz)

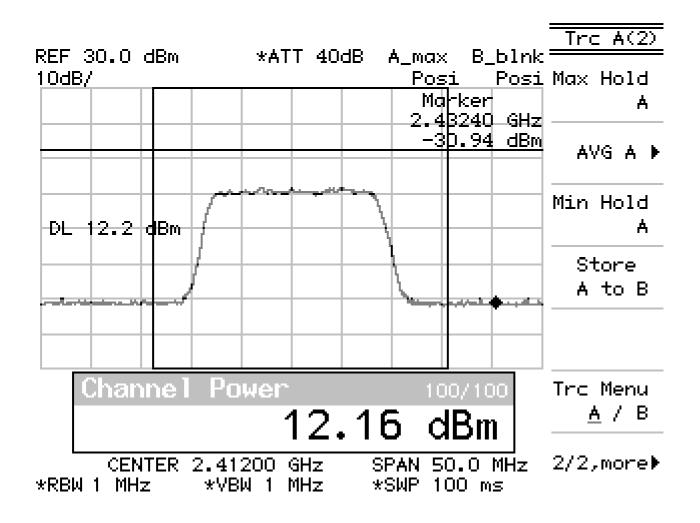




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802.11g (2412MHz)

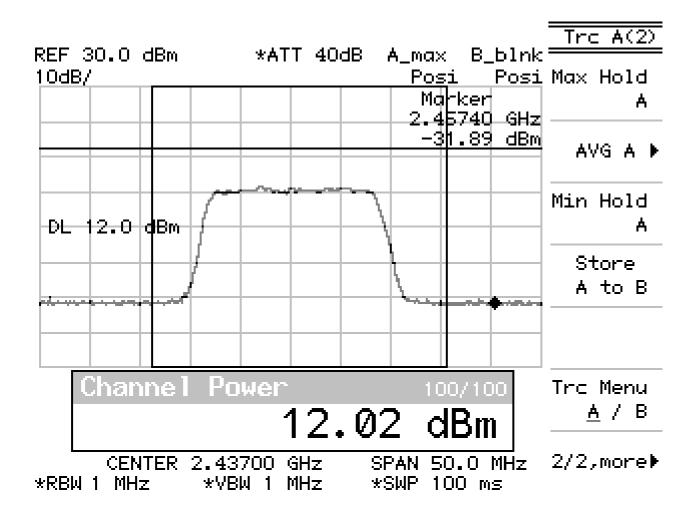




MEASUREMENT REPORT

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802.11g (2437MHz)

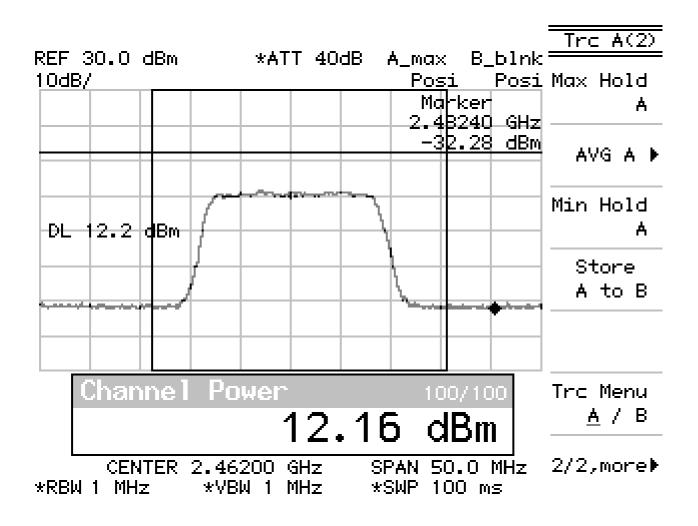


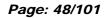


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802.11g (2462MHz)







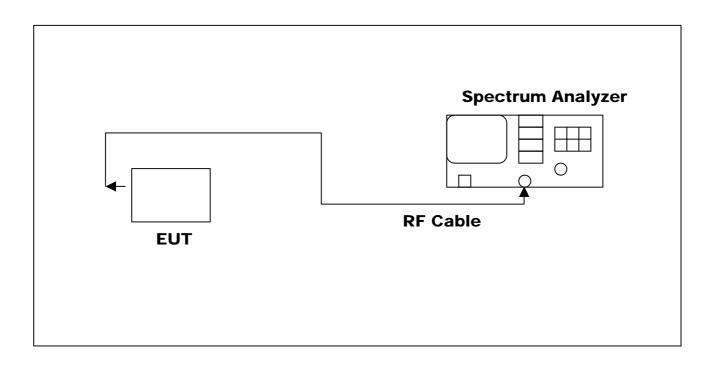
MEASUREMENT REPORT

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:





MAX LIGHT MEASUREMENT REPORT

5.3 Test Equipment List:

A. Agilent E4407B 9KHz-26.5GHz Spectrum Analyzer (S/N:A872JS02291)

- B. HP 8449B 1GHz-26.5GHz Pre Amplifier (S/N:1982901A91)
- C. Shielded Room (MLT-SR1)

5.4 Test Result:

802.11b

Frequency (MHz)	Min. 6dB Bandwidth (MHz)	Required Limit
2412	10.9	>500KHz
2437	10.9	>500KHz
2462	10.6	>500KHz

802.11g

Frequency (MHz)	Min. 6dB Bandwidth (MHz)	Required Limit
2412	16.6	>500KHz
2437	16.6	>500KHz
2462	16.7	>500KHz

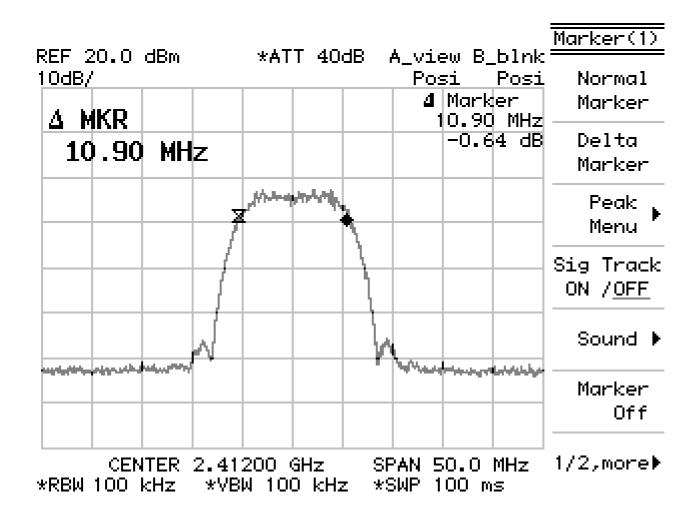
Note : Test Graphs See next page.



MEASUREMENT REPORT

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802.11b (2412MHz)

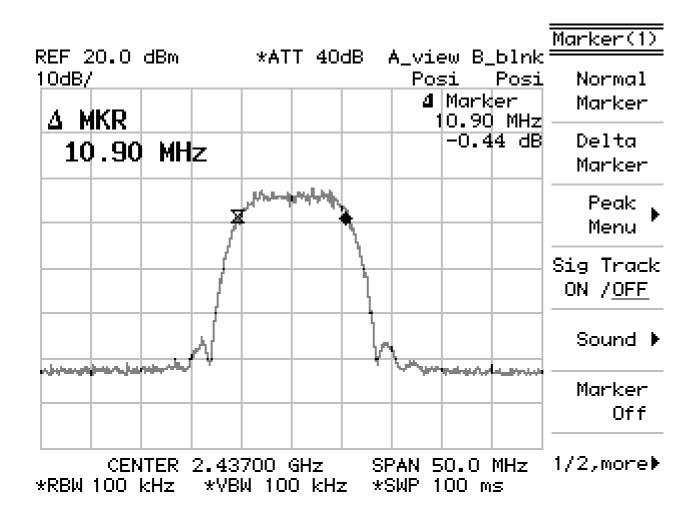




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802.11b (2437MHz)

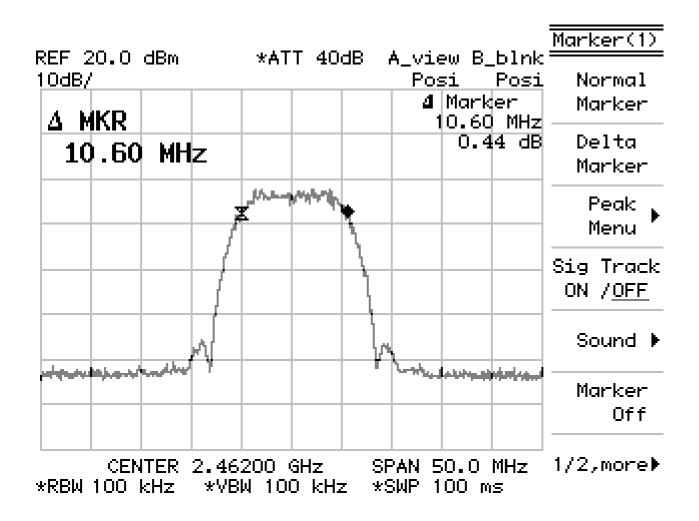




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802.11b (2462MHz)

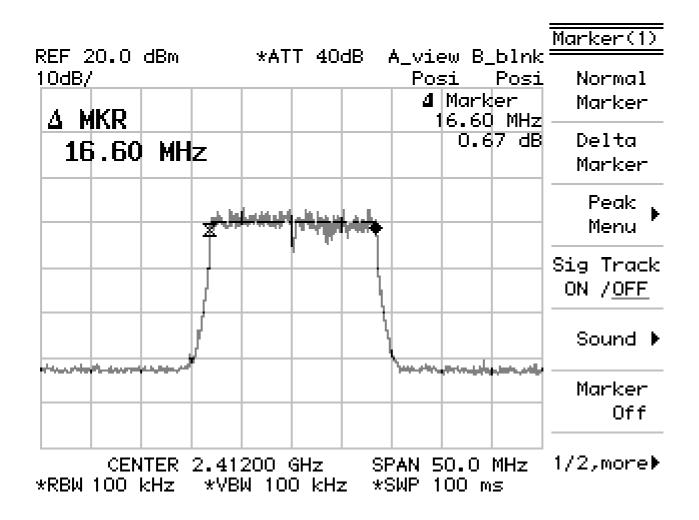




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802.11g (2412MHz)

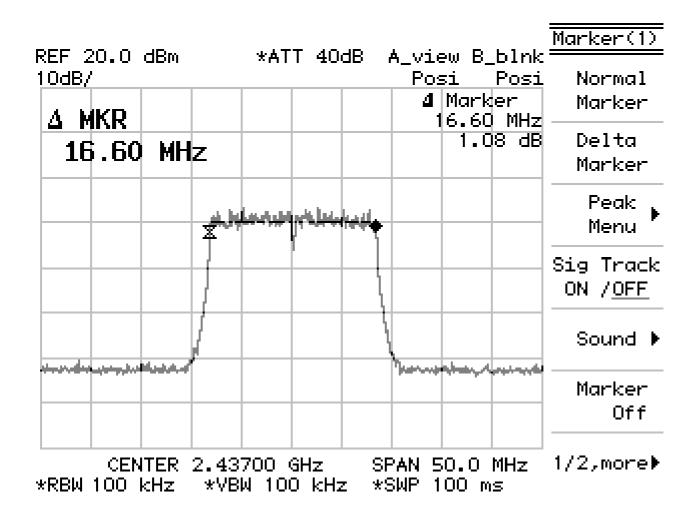




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802.11g (2437MHz)

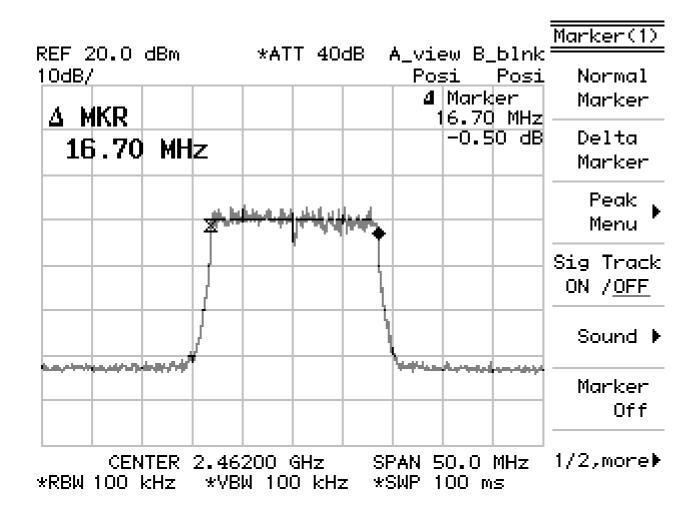




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802.11g (2462MHz)



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MAX LIGHT

MEASUREMENT REPORT

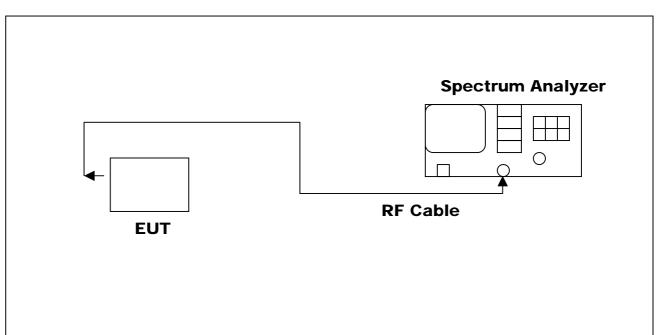
VI. Maximum Power Density Requirements

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:

SWEEP TIME (SEC) = (Fstop, kHz - Fstart, kHz)/3 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:



MAX LIGHT MEASUREMENT REPORT

6.3 Test Equipment List:

A. Agilent E4407B 9KHz-26.5GHz Spectrum Analyzer (S/N:A872JS02291)

B. HP 8449B 1GHz-26.5GHz Pre Amplifier (S/N:1982901A91)

E. Shielded Room (MLT-SR1)

6.4 Test Result:

802.11b

Frequency (MHz)	Power Density (dBm)	Required Limit
2412	-12.53	<8dBm
2437	-13.03	<8dBm
2462	-13.94	<8dBm

802.11g

Frequency (MHz)	Power Density (dBm)	Required Limit
2412	-11.89	<8dBm
2437	-10.72	<8dBm
2462	-10.17	<8dBm

Note :

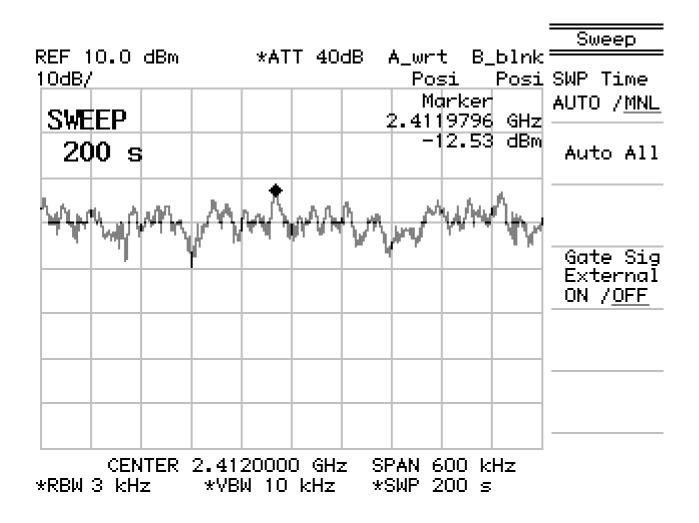
- 1. Frequency Span= 600 kHz
- 2. Sweep Time = Frequency Span/3 kHz=200secs
- 3. Test Graphs See next page.



MEASUREMENT REPORT

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802.11b (2412MHz)

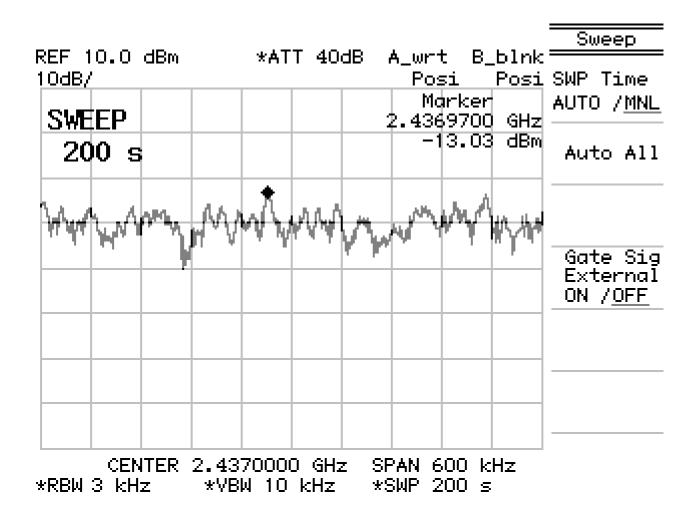




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802.11b (2437MHz)

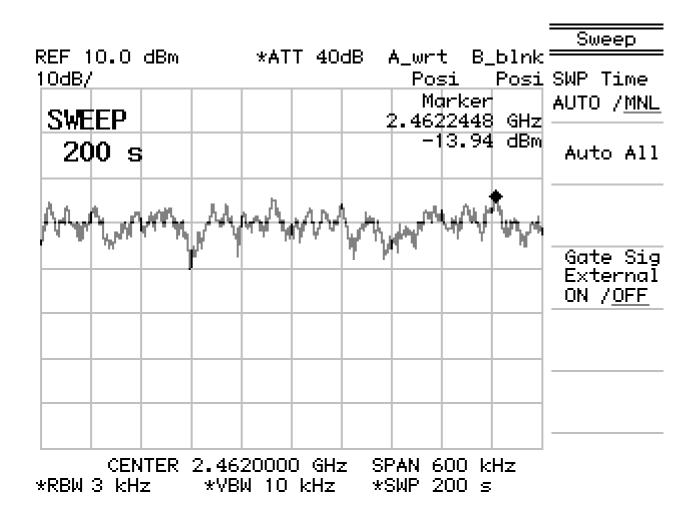




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802.11b (2462MHz)

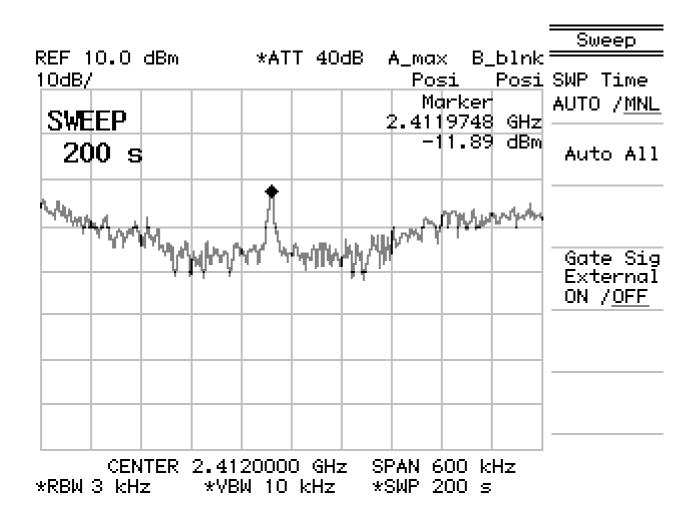




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802.11g (2412MHz)

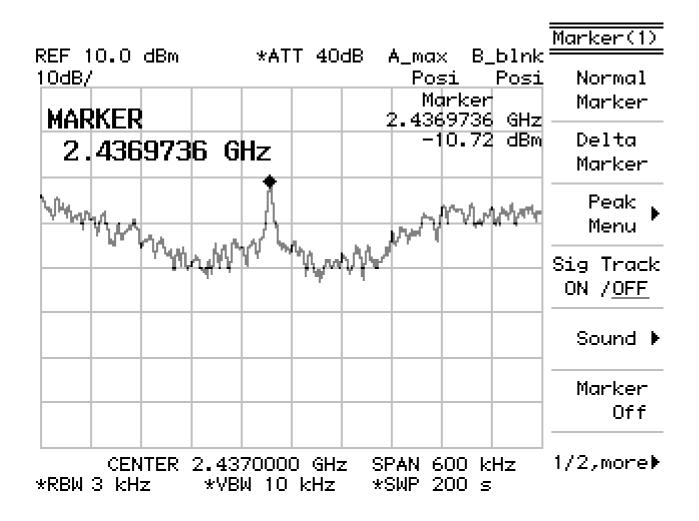




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802.11g (2437MHz)

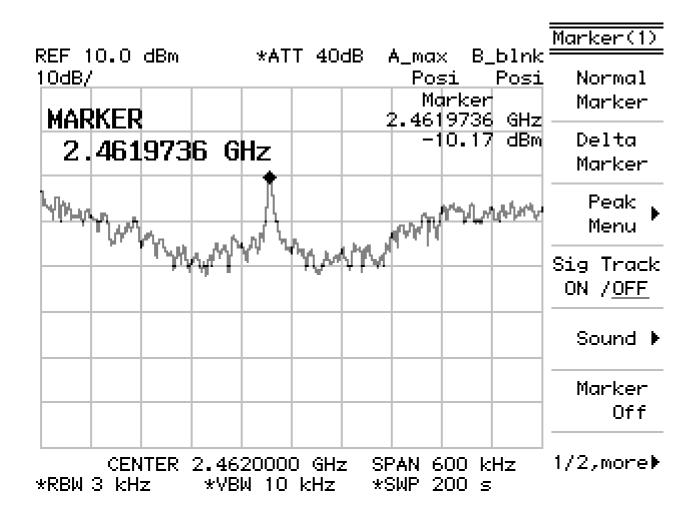




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802.11g (2462MHz)



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MAX LIGHT

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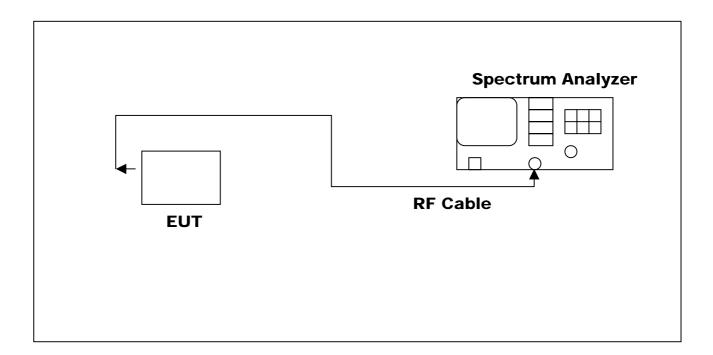
VII. Out of Band Conducted Emissions Requirements

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:





MAX LIGHT MEASUREMENT REPORT

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7.3 Test Equipment List:

A. Agilent E4407B 9KHz-26.5GHz Spectrum Analyzer (S/N:A872JS02291) **B.** Shielded Room (MLT-SR1)

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)

Log 10 dB/ dB/ V1 \$2 \$3 FC AA	Search	Peak						05	-	-	11:02:4	-	🔆 Agi
Peak Measure Log Ne 10 Ne dB/ Ne Image: State of the state					Mk				40 AR	O++ op		l dBm	D~t 30
dB/	as Tools•	Me		-55.5					40 00	HILEI			Peak Log
V1 S2 S3 FC AA	ext Peak	N											
V1 S2 S3 FC AA	Pk Right	Next											
Min	t Pk Left	Nex											
Pk-Pk	n Search	Mi	andrean an a	, , , , , , , , , , , , , , , , , , ,	and the second	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	^	uh-no-	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ada an		and the state of the	\$3 FC
	k Search	Pk-P											
Start 30 MHz Stop 1 GHz #Res BW 100 kHz VBW 100 kHz Sweep 125 ms (401 pts)	More 1 of 2				ep 125	Swe	kHz	W 100	VB				



802.11b (CH01) (2 of 5)

🔆 Agilent 10:48:44 Aug 31, 2005	Peak Search
Mkr1 2.1095 GHz : Ref 30 dBm Atten 40 dB -34.76 dBm Peak Log	Meas Tools•
10 dB/	Next Peak
Marker	Next Pk Right
2.109500000 GHz -34.76 dBm	Next Pk Left
V1 S2 S3 FC www.www.www.www.www.www.www.www.www.ww	Min Search
	Pk-Pk Search
Start 1 GHz Stop 2.4 GHz #Res BW 100 kHz VBW 100 kHz Sweep 180.4 ms (401 pts)	More 1 of 2



MEASUREMENT REPORT

Agilent 10:53:34 Aug 31, 2005 Marker Mkr2 2.42325 GHz -38.39 dBm Ref 30 dBm Atten 40 dB Select Marker Peak 2 3 1 4 Log 10 dB/ Normal Ŷ Delta Delta Pair (Tracking Ref) Ref Delta V1 S2 S3 FC 2 Span Pair Span Center AΑ Off More Start 2.4 GHz Stop 2.5 GHz 1 of 2 #Res BW 100 kHz Sweep 12.88 ms (401 pts) VBW 100 kHz

802.11b (CH01) (3 of 5)



802.11b (CH01) (4 of 5)

🔆 Agi	lent 10:5	7:28 Aug	31,20	05						Peak Search
Ref 30 Peak Log	dBm	Atten	40 dB				Mk		00 GHz 7 dBm	Meas Tools⊦
10 dB/										Next Peak
	Marker 3.1000		GH-7							Next Pk Right
	-36.27									Next Pk Left
V1 S2 S3 FC AA	D- M	Martin and Arren			-	an a		and and and		Min Search
										Pk-Pk Search
	L 2.5 GHz WW 100 kHz		VB	W 100	kHz	Sweep	966.3		LØ GHz 1 pts)	More 1 of 2



802.11b (CH01) (5 of 5)

	11:00:20 Aug	•				Trace/View
Ref 30 dBm Peak	Atten	40 dB			4.5125 GHz 33.78 dBm	Trace
Log						<u>1</u> 2 3
10 dB/						Clear Write
						Max Hold
					1	Min Hold
V1 S2 S3 FC M M AA			·····	m Man	and and the second s	View
						Blank
Start 10 GHz #Res BW 100		VBW 100	kHz Swe		top 25 GHz (401 pts)	More 1 of 2



802.11b (CH06) (1 of 5)

🔆 Agilent	11:03:32 Aug	31,2005		M1 E40.0 M	Trace/View
Ref 30 dBm Peak Log	Atten	40 dB		Mkr1 549.0 M -35.56 dl	
10 dB/					Clear Write
					Max Hold
			1		Min Hold
V1 S2 S3 FC AA	here and the second			and the second second	View
					Blank
Start 30 MHz #Res BW 100		VBW 100	kHz Swe	Stop 1 G ep 125 ms (401 pt	



802.11b (CH06) (2 of 5)

🔆 Agilent	10:49:52 Aug	31,2005			Peak Search
Ref 30 dBm Peak Log	Atten	40 dB		Mkr1 2.3405 GHz _35.34 dBm	Meas Tools•
10 dB/					Next Peak
					Next Pk Right
					Next Pk Left
V1 S2 S3 FC AA	n hondradhain	and the second	yuraaa daa ahaa ahaa ahaa ahaa ahaa ahaa a	anna anna anna anna anna anna anna ann	Min Search
					Pk-Pk Search
Start 1 GHz #Res BW 100	kHz	VBW 100	kHz Sweep 1	Stop 2.4 GHz 80.4 ms (401 pts)	More 1 of 2



MEASUREMENT REPORT

🔆 Agilent 10:54:54 Aug 31, 2005 Marker Mkr2 2.42350 GHz -38.39 dBm Ref 30 dBm Atten 40 dB Select Marker Peak 2 3 1 4 Log 10 dB/ Normal Delta Delta Pair (Tracking Ref) Ref Delta V1 S2 S3 FC 2 0 / Span Pair Span Center AA Off More Start 2.4 GHz Stop 2.5 GHz 1 of 2 #Res BW 100 kHz Sweep 12.88 ms (401 pts) VBW 100 kHz

802.11b (CH06) (3 of 5)



802.11b (CH06) (4 of 5)

🔆 Agil	lent	10:58:1	2 Aug	31,200	05						Trace/View
Ref 30 Peak	dBm		Atten	40 dB				Mk		63 GHz 5 dBm	Trace <u>1</u> 2 3
Log 10 dB/											Clear Write
											Max Hold
											Min Hold
V1 S2 S3 FC AA	1 •••••••	and the second	×4×4			and the second	an the second	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	n n n		View
											Blank
Start 2 #Res B				VB	W 100	kHz	Sweep	966.3		10 GHz 1 pts)	More 1 of 2



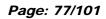
802.11b (CH06) (5 of 5)

🔆 Agi	lent 11:01:0	02 Aug 31,	2005				Peak Search
Ref 30 Peak Log	dBm	Atten 40	dB			24.4750 GHz -32.58 dBm	Meas Tools•
10 dB/							Next Peak
	Marker 24.4750	00000 C	:Ш - у				Next Pk Right
114	-32.58						Next Pk Left
V1 S2 S3 FC AA	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		-hardwaranger	- Andrewski - A Andrewski - Andrewski - Andr	w.m.	and the second	Min Search
							Pk-Pk Search
Start 1 #Res B	0 GHz W 100 kHz		VBW 100 kH	Iz Swee		Stop 25 GHz s (401 pts)	More 1 of 2



802.11b (CH11)(1 of 5)

🔆 Agilent 11:04:21 Aug 31, 2005	Peak Search
Mkr1 813.3 MHz Ref 30 dBm Atten 40 dB -34.95 dBm	
Peak Log	Meas Tools•
10 dB/	Next Peak
	Next Pk Right
	Next Pk Left
V1 S2 S3 FC AR	Min Search
	Pk-Pk Search
Start 30 MHz Stop 1 GHz #Res BW 100 kHz VBW 100 kHz Sweep 125 ms (401 pts)	More 1 of 2





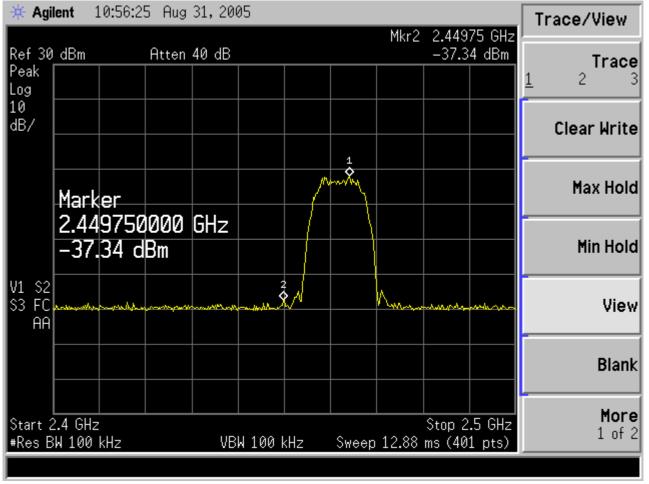
802.11b (CH11)(2 of 5)

Mkr1 2.3580 GHz Ref 30 dBm Atten 40 dB -35.75 dBm Peak Log	
	Center Freq 1.70000000 GHz
10 dB/	Start Freq 1.00000000 GHz
	Stop Freq 2.40000000 GHz
	CF Step 140.00000 MHz <u>Auto</u> Man
V1 S2 S3 FC AA	Freq Offset 0.00000000 Hz
	Signal Track On <u>Off</u>
Start 1 GHz Stop 2.4 GHz #Res BW 100 kHz VBW 100 kHz Sweep 180.4 ms (401 pts)	Scale Type Log <u>Lin</u>



MEASUREMENT REPORT

802.11b (CH11)(3 of 5)

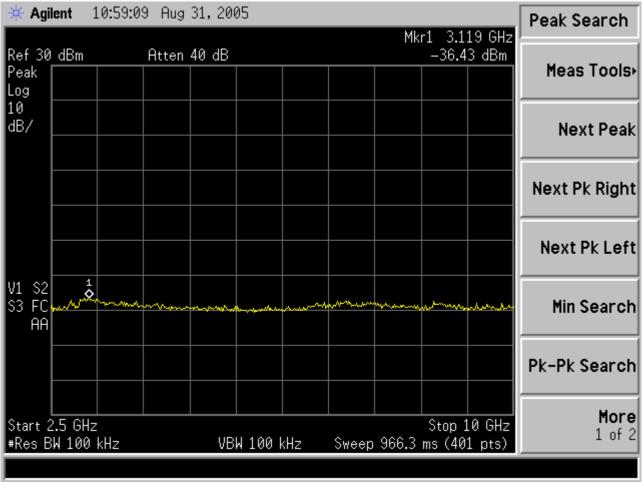




MEASUREMENT REPORT

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802.11b (CH11)(4 of 5)





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802.11b (CH11)(5 of 5)

🔆 Agilent	11:01:54 A	Aug 31, 200	5			Peak Search
Ref 30 dBm Peak Log	At	ten 40 dB		Mkr1	23.6875 GHz -33.33 dBm	Meas Tools⊦
10 dB/						Next Peak
						Next Pk Right
V1 S2					1	Next Pk Left
S3 FC Mana	munne	har non har	- Ar bo	an har the street and		Min Search
						Pk-Pk Search
Start 10 GHz #Res BW 100		VBW	100 kHz	Sweep 1.933	Stop 25 GHz 3 s (401 pts)	More 1 of 2



802.11g (CH01) (1 of 5)

🔆 Agil	ent 11:1	.7:39 Aug	31,200	95					Trace/View
Ref 30 Peak Log	dBm	Atten	40 dB				Mk	3.7 MHz 4 dBm	Trace <u>1</u> 2 3
10 dB/									Clear Write
	Marker	10000 M	⊔ -7						Max Hold
	-36.24		112						Min Hold
V1 S2 S3 FC AA	an a	maria Mahara N		alan asha	www.whereford		1 \$	 4,44. ₉₈₋₁₉ -14	View
									Blank
Start 3 #Res Bl	0 MHz W 100 kHz		VB	W 100	<hz< td=""><td>Swee</td><td>ep 125</td><td>1 GHz 1 pts)</td><td>More 1 of 2</td></hz<>	Swee	ep 125	1 GHz 1 pts)	More 1 of 2



802.11g (CH01) (2 of 5)

* Agilent 11:24:12 Aug 31, 2005	Trace/View
Mkr1 2.4000 GHz Ref 30 dBm Atten 40 dB -34.03 dBm Peak Log	Trace <u>1</u> 2 3
10 dB/	Clear Write
	Max Hold
	Min Hold
V1 S2 S3 FC management was a second	View
	Blank
Start 1 GHz Stop 2.4 GHz #Res BW 100 kHz #VBW 100 kHz Sweep 180.4 ms (401 pts)	More 1 of 2



MEASUREMENT REPORT

Agilent 11:27:56 Aug 31, 2005 Marker Mkr2 2.42875 GHz -35.85 dBm Ref 30 dBm Atten 40 dB Select Marker Peak 2 3 1 4 Log 10 dB/ Normal 1 **(** Delta Delta Pair (Tracking Ref) Ref Delta mus V1 S2 S3 FC Span Pair Span Center AΑ Off More Start 2.4 GHz Stop 2.5 GHz 1 of 2 #Res BW 100 kHz Sweep 12.88 ms (401 pts) #VBW 100 kHz

802.11g (CH01) (3 of 5)



802.11g (CH01) (4 of 5)

* Agilent 11:31:14 Aug 31, 2005	Trace/View
Mkr1 3.156 GHz Ref 30 dBm Atten 40 dB -35.95 dBm	Trace
	<u>1</u> 2 3
10 dB/	Clear Write
	Max Hold
	Min Hold
V1 S2 S3 FC	View
	Blank
Start 2.5 GHz Stop 10 GHz #Res BW 100 kHz #VBW 100 kHz Sweep 966.3 ms (401 pts)	More 1 of 2



802.11g (CH01) (5 of 5)

Agilent 11:33:30 Aug 31, 2005	Trace/View
Mkr1 24.5125 GHz	
	Trace <u>1</u> 2 3
10 dB/	Clear Write
	Max Hold
	Min Hold
V1 S2 S3 FC MAR AND	View
	Blank
Start 10 GHz Stop 25 GHz #Res BW 100 kHz #VBW 100 kHz Sweep 1.933 s (401 pts)	More 1 of 2



802.11g (CH06) (1 of 5)

Agilent 11:18:26 Aug 31, 2005	Trace/View
Mkr1 847.2 MHz Ref 30 dBm Atten 40 dB -36.37 dBm Peak	Trace
Log 10	<u>1</u> 2 3
dB/	Clear Write
	Max Hold
	Min Hold
V1 S2 S3 FC AA	View
	Blank
Start 30 MHz Stop 1 GHz #Res BW 100 kHz VBW 100 kHz Sweep 125 ms (401 pts)	More 1 of 2



802.11g (CH06) (2 of 5)

	11:24:51 Aug 31,	🔆 Agilent
Mkr1 1.8785 GHz Atten 40 dB -36.56 dBm Tra	Atten 40 c	Ref 30 dBm Peak
Linear Wr		Log 10 dB/
Max H		Mark
	'8500000 GH .56 dBm	
Vi	-	V1 S2 S3 FC
Bla		
Stop 2.4 GHz	kHz 4	Start 1 GHz #Res BW 100



MEASUREMENT REPORT

Agilent 11:28:56 Aug 31, 2005 Marker Mkr2 2.42050 GHz -35.88 dBm Ref 30 dBm Atten 40 dB Select Marker Peak 2 3 1 4 Log 10 dB/ Normal 1 \$ Delta Delta Pair (Tracking Ref) Ref Delta 2 \$ V1 S2 S3 FC Span Pair Span Center ĤΑ Off More Start 2.4 GHz Stop 2.5 GHz 1 of 2 #Res BW 100 kHz Sweep 12.88 ms (401 pts) #VBW 100 kHz

802.11g (CH06) (3 of 5)



802.11g (CH06) (4 of 5)

* Agilent 11:31:56 Aug 31, 2005	Trace/View
Mkr1 3.044 GHz Ref 30 dBm Atten 40 dB -35.06 dBm Peak	Trace
Log	<u>1</u> 23
10 dB/	Clear Write
	Max Hold
	Min Hold
V1 S2 S3 FC Manna Man AA	View
	Blank
Start 2.5 GHz Stop 10 GHz #Res BW 100 kHz #VBW 100 kHz Sweep 966.3 ms (401 pts)	More 1 of 2



802.11g (CH06) (5 of 5)

_	11:34:22 Aug					Trace/View
Ref 30 dBm Peak Log	Atten	40 dB			24.5125 GHz -33.17 dBm	Trace <u>1</u> 2 3
10 dB/						Clear Write
						Max Hold
					<u>1</u>	Min Hold
V1 S2 S3 FC AA	man	maniphon	and and a second	mm	-amonto	View
						Blank
Start 10 GHz #Res BW 100		#VBW 100	kHz Swe		Stop 25 GHz s (401 pts)	More 1 of 2



802.11g (CH11)(1 of 5)

* Agilent	11:19:20 Aug					Trace/View
Ref 30 dBm Peak	Atten	40 dB		Mkr1 844 -34.4	6 dBm	Trace <u>1</u> 2 3
Log 10 dB/						Llear Write
						Max Hold
				1		Min Hold
V1 S2 S3 FC مسمد AA					monta	View
						Blank
Start 30 MH #Res BW 100		VBW 100	kHz Swe	Stop 9 125 ms (40	1 GHz 1 pts)	More 1 of 2



802.11g (CH11)(2 of 5)

* Agilent 11:25:40		Peak Sear	ch
Ref 30 dBm	Atten 40 dB	Mkr1 2.3930 GHz -36.83 dBm	
Peak Log		Meas To	ols⊦
10 dB/		Next P	eak
		Next Pk Ri	ight
		Next Pk L	_eft
V1 S2 S3 FC Martine Anno Anno Anno Anno Anno Anno Anno An	an a	Min Sea	ırch
		Pk-Pk Sea	irch
Start 1 GHz #Res BW 100 kHz	#VBW 100 k	Stop 2.4 GHZ 1	lore of 2



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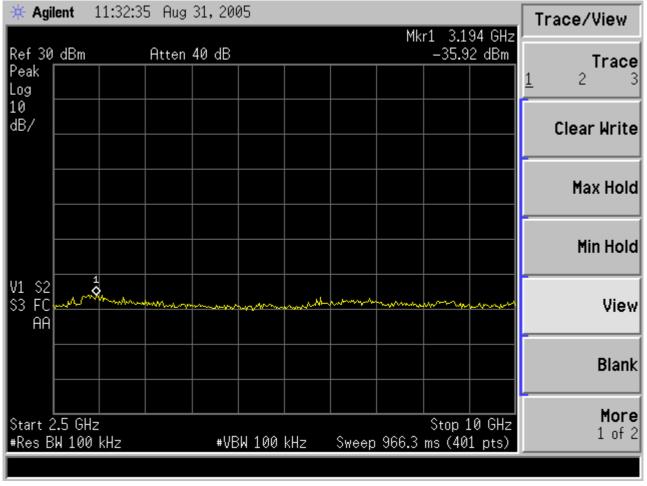
🔆 Agilen	nt 11:30:02	2 Aug 31,	2005						Marker
Ref 30 d Peak Log	Bm	Atten 40 c	B			Mkr2	2.4435 -34.55	50 GHz 9 dBm	Select Marker 1 <u>2</u> 3 4
10 dB/									Normal
					hunter				Delta
			2						Delta Pair (Tracking Ref) Ref <u>Delta</u>
V1 S2 S3 FC مم AA	<u>~~~~~</u> ,	-turner and the first of the second		ν .		WWW.	*******	Martanana	Span Pair Span <u>Center</u>
									Off
Start 2.4 #Res BW		+	VBW 100	kHz	Sweep	12.88	Stop 2. ms (401		More 1 of 2



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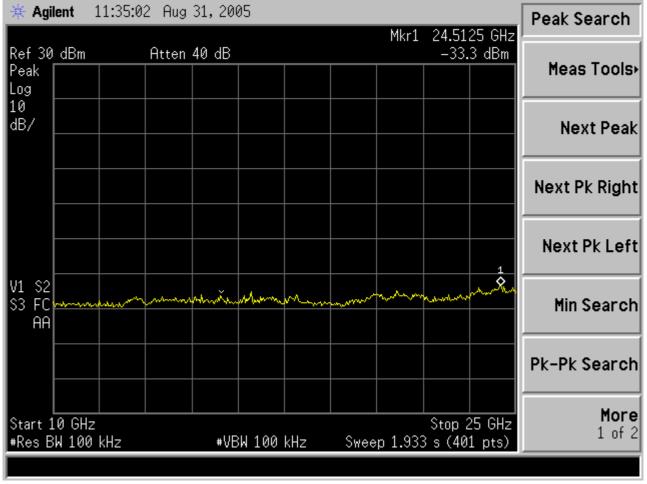




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MAX LIGHT

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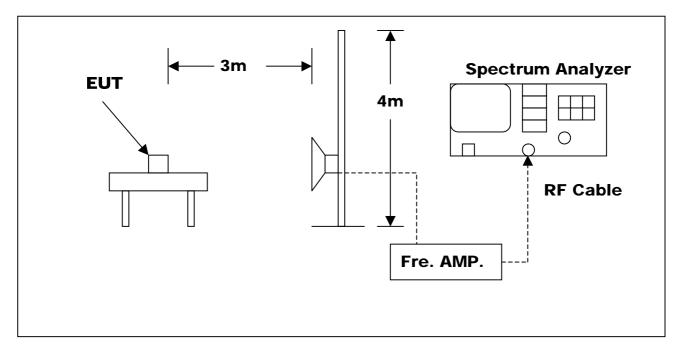
VIII. Band Edges Requirements

8.1 Test Condition & Setup :

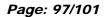
The emissions on the harmonics frequencies, the limits, and the margin of compliance are presented. These tests were made when the transmitter was in full radiated power. The additional test was performed to show compliance with the requirement at the band-edge frequency 2483.5 MHz and up to 2500 MHz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





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8.3 Test Equipment List:

A. Agilent E4407B 9KHz-26.5GHz Spectrum Analyzer (S/N:A872JS02291)

B. HP 8449B 1GHz-26.5GHz Pre Amplifier (S/N:1982901A91)

C. SCHWARZBECK BBHA 9120D Biconilog Antenna (S/N:141S3)

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)		
2388.00	55.19(PK)	1.1	360	0	9.54	45.65	74.00	-28.35		
2388.00	47.69(AV)	1.1	360	0	9.54	38.15	54.00	-15.85		
Radiated Emissions (VERTICAL) CH01										
	Raui	aicu			(
Frequency (MHz)		Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)		
	Amplitude	Ant.	Table	Duty	Dist	Actual Amp	Limit	-		

	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)				
2483.80	53.77(PK)	1	280	0	9.54	44.23	74.00	-29.77				
2483.80	46.98(AV)	1	280	0	9.54	37.44	54.00	-16.56				
	Radia	atec	l Emiss	sions	(VER	TICAL) C	H11					
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)				
2483.80	56.22(PK)	1.2	220	0	9.54	46.68	74.00	-27.32				
2483.80	48.17(AV)	1.2	220	0	9.54	38.63	54.00	-15.37				

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.

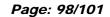
5.Dis= Distance extrapolation factor.

6.Amplitude= Reading Amplitude - Amplifier gain+ Cable loss

+Antenna factor

(Auto calculate in spectrum analyzer)

7.Actual Amp= Amplitude - Duty - Dis.





MAX LIGHT MEASUREMENT REPORT

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)			
2389.68	52.18(PK)	1.1	300	0	9.54	42.64	74.00	-31.36			
2389.68	45.04(AV)	1.1	300	0	9.54	35.50	54.00	-18.50			
Radiated Emissions (VERTICAL) CH1											
	Rad	iate	d Emis	sions	(VEF	RTICAL) (CH1				
Frequency	1	iate Ant.	d Emis	sions	Dist	RTICAL) (Actual Amp	CH1 Limit	Margin			
Frequency (MHz)	1	1	1	1		-		Margin (dB)			
	Amplitude	Ant.	Table	Duty	Dist	Actual Amp	Limit	•			

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)			
2483.56	51.77(PK)	1	170	0	9.54	42.23	74.00	-31.77			
2483.56	43.96(AV)	1	170	0	9.54	34.42	54.00	-19.58			
	Radia	atec		sions	(VER	TICAL) C	H11				

Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Duty (dB)	Dist (dB)	Actual Amp (dBuV/m)	Limit (dBuV/m)	Margin (dB)			
2483.80	59.64(PK)	1	190	0	9.54	50.10	74.00	-23.90			
2483.80	48.93(AV)	1	190	0	9.54	39.39	54.00	-14.61			

Notes : 1.Margin= Amplitude - Limits

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

3.ANT= Antenna height.

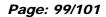
4.Duty= Duty cycle correction factor.

*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.





MAX LIGHT MEASUREMENT REPORT

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 is1/4 DIOPLE antenna . And the maximum Gain of this antenna is only 2.0dBi.

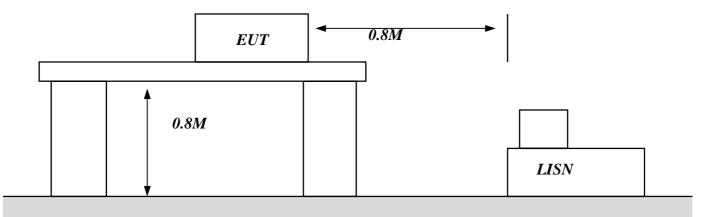


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Appendix I- EUT Test SETUP

MEASUREMENT OF POWER LINE CONDUCTED RFI VOLTAGE



Metal floor surfaced with 30mm of insulating material



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Appendix I- EUT Test SETUP

MEASUREMENT OF RADIATED EMISSION

