

Lab. Code: 200581-0

FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

Digital Media Bridge

Model: DMP3000

Trade Name: THOMSON, AR, RCA

Prepared for

INVENTEC (SHANGHAI) CORPORATION 1295, Yi Shan Road, Shanghai 200233, P.R.C.

Prepared by

COMPLIANCE CERTIFICATION SERVICES (KUNSHAN) INC.

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1. TEST RESULT CERTIFICATION

Applicant: INVENTEC (SHANGHAI) CORPORATION

1295, Yi Shan Road, Shanghai 200233, P.R.C.

Equipment Under Test: Digital Media Bridge
Trade Name: THOMSON,AR,RCA

Model: DMP3000

Date of Test: October 15~18, 2005

APPLICABLE STANDARDS				
STANDARD	TEST RESULT			
FCC Part 15 Subpart C	No non-compliance noted			

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. 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 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.247.

The test results of this report relate only to the tested sample EUT identified in this report.

Approved by:

Denny Yang

Vice General Manager of Kunshan Laboratory

Compliance Certification Services Inc.

Reviewed by:

Eric Lin

Section Manager of Kunshan Laboratory

Date of Issue: October 19, 2005

Compliance Certification Services Inc.

2. EUT DESCRIPTION

Product	Digital Media Bridge
Trade Name	THOMSON,AR,RCA
Model Number	DMP3000
Model Discrepancy	All the above models are identical except the model designation for different market.
Wireless module Manufacturer / MN	GEMTEK / WMIR-103G
Power Supply	Model Number: PA-1650-02 Manufacturer: LITEON Input: AC 100-240V, 50Hz, 1.6A Output: DC 18.5V, 3.5A
Frequency Range	802.11b mode: 2412 ~ 2462 MHz 802.11g mode: 2412 ~ 2462 MHz
Transmit Power	802.11b mode: 16.88 dBm 802.11g mode: 15.58 dBm
Modulation Technique	802.11b: DSSS (CCK; DQPSK; DBPSK) 802.11g: OFDM
Transmit Data Rate	802.11b: 11Mbps(CCK) with fall back rates of 5.5, 2, and 1Mbps 802.11g: 54Mbps with fall back rates of 48/36/24/18/12/9/6 Mbps (OFDM)
Number of Channels	11 Channels
Antenna Specification	JEBSEE Antenna Gain: 2.66 dBi (Max)
Antenna Specification	SmartAnt Antenna Gain: 0.80 dBi (Max)

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Note: This submittal(s) (test report) is intended for FCC ID: <u>TEG-DMP3000</u> filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2001 and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, 15.207, 15.209 and 15.247.

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3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4-2001 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.4-2001.

3.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

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MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	$\binom{2}{}$
13.36 - 13.41	322 - 335.4		

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

3.5 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

IEEE802.11b: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with preliminary test 11, 5.5, 2, and 1, After the preliminary scan, the following test mode 11Mbps highest data rate (the worst case) are chosen for the final testing.

IEEE802.11g: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with preliminary test 54/48/36/24/18/12/9/6, After the preliminary scan , the following test mode 6Mbps data rate (the worst case) are chosen for the final testing.

² Above 38.6

4. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

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5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at CCS China Kunshan Lab at 10#, Weiye Rd, Innovation Park Eco. & Tec. Development Zone Kunshan city JiangSu, (215300)CHINA.

The measurement facilities are constructed in conformance with the requirements of CISPR 16-1, ANSI C63.4 and other equivalent standards.

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5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.3 LABORATORY ACCREDITATIONS AND LISTING

The test facilities used to perform radiated and conducted emissions tests are accredited by National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code: 200581-0 to perform Electromagnetic Interference tests according to FCC PART 15 AND CISPR 22 requirements. No part of this report may be used to claim or imply product endorsement by NVLAP or any agency of the US Government. In addition, the test facilities are listed with Federal Communications Commission.

5.4 TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	NVLAP	EN 55022, EN 61000-3-2, EN 61000-3-3, EN550024, EN 61000-4-2, EN 61000-4-3, EN61000-4-4, EN 61000-4-5, EN 61000-4-6, IEC 61000-4-8, EN 61000-4-11 ANSI C63.4, CISPR16-1, IEC61000-3-2, IEC61000-3-3, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11	Lab. Code: 200581-0
USA	FCC	3/10 meter Sites to perform FCC Part 15/18 measurements	FC 93105, 90471
Japan	VCCI	3/10 meter Sites and conducted test sites to perform radiated/conducted measurements	VCCI R-1600 C-1707
Norway	NEMKO	EN61000-6-1/2/3/4, EN 50082-1/2, IEC 61000-6-1/2/3/4, EN 50091-2, EN 55011, EN 55022, EN 55024, EN 61000-3-2/3, EN 61000-11, IEC 61000-4-2/3/4/5/6/8/11, CISPR16-1/2/3/4	ELA 105

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^{*} No part of this report may be used to claim or imply product endorsement by NVLAP or any agency of the US Government.

6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

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6.2 SUPPORT EQUIPMENT

	Equipment	Model	Serial No.	FCC ID	Trade Name	Data Cable	Power Cord
1	LCD TV	DV37	N/A	DoC	DELL	N/A	Shielded, 1.8m
2	TV	T2173A	ARN430WW11 64956	DoC	KONKA	N/A	Un-Shielded, 1.5m
3	SPEAKER	SM-991M.V	CY73731	DoC	SOMIC	Un-Shield ed, 2.2m	N/A
4	(USB) Keyboard	KU-9985	2D41500319B	DoC	DELL	Shielded, 1.2m	N/A
5	Notebook	62P7043	998W21C	DoC	IBM	LAN Cable: Un-Shield ed, 1.5m	Shielded, 1.8m

Notes:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

7. FCC PART 15.247 REQUIREMENTS

7.1 6dB BANDWIDTH

LIMIT

For the direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz.

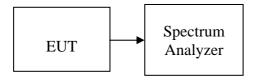
MEASUREMENT EQUIPMENT USED

Name of Equipment Manufacturer		Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY44020154	03/05/2006

Date of Issue: October19, 2005

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



TEST PROCEDURE

- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW = 100kHz, VBW = RBW, Span = 20MHz, Sweep =
- 4. Mark the peak frequency and –6dB (upper and lower) frequency.
- 5. Repeat until all the rest channels are investigated.

TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b

Channel	Channel Frequency (MHz)		Limit (kHz)	Margin (kHz)	
Low	2412	12600		PASS	
Mid	2437	12030	>500	PASS	
High	2462	12100		PASS	

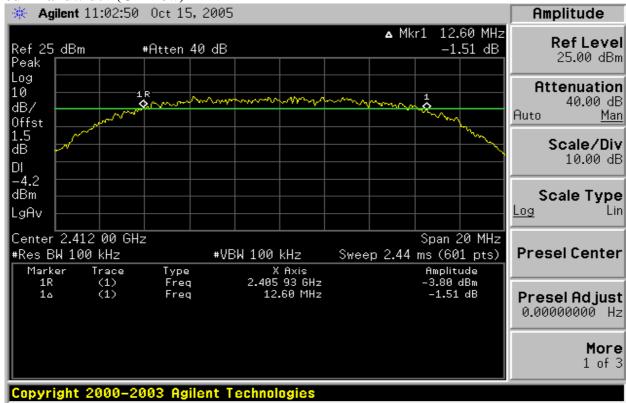
Test mode: IEEE 802.11g

Channel	Channel Frequency (MHz)		Limit (kHz)	Margin (kHz)	
Low	2412	16370		PASS	
Mid	2437	16430	>500	PASS	
High	2462	16430		PASS	

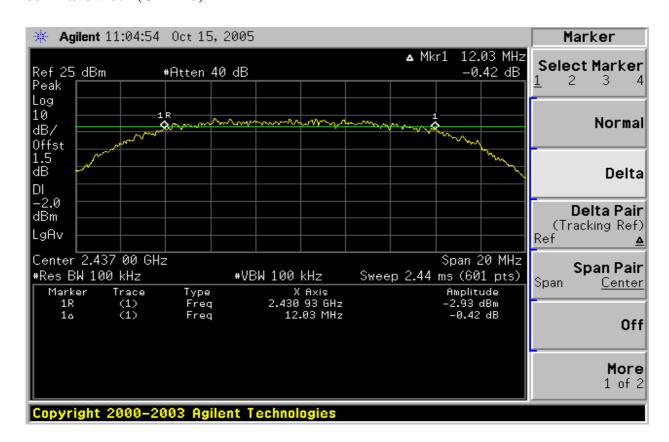
Test Plot

802.11b mode

6dB Bandwidth (CH Low)

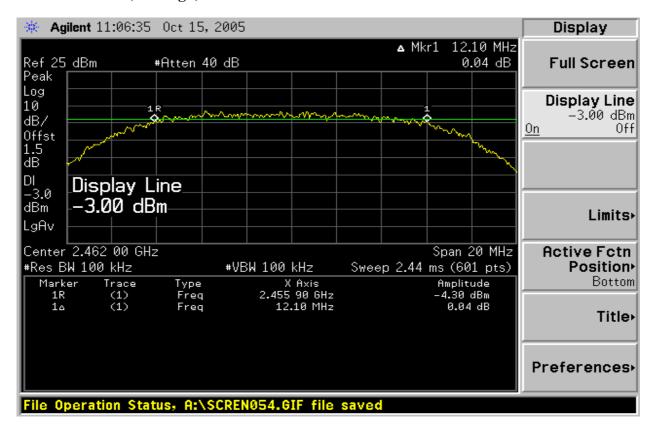


6dB Bandwidth (CH Mid)



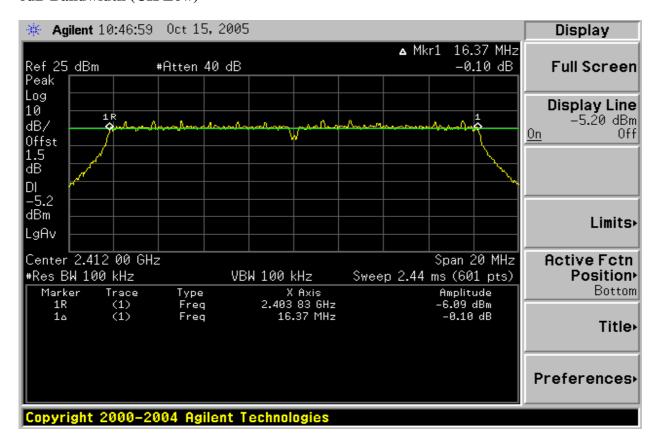


6dB Bandwidth (CH High)

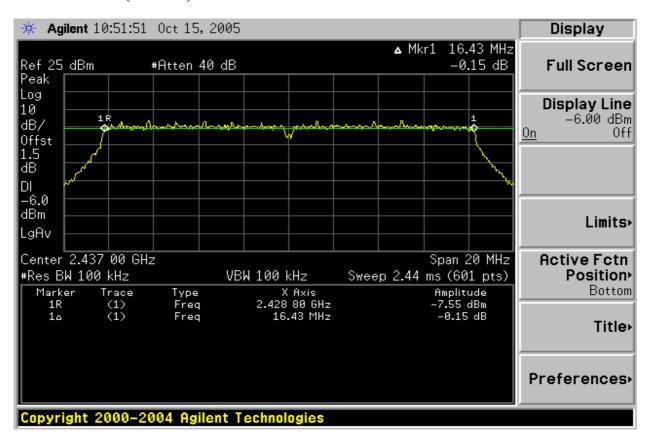


802.11g mode

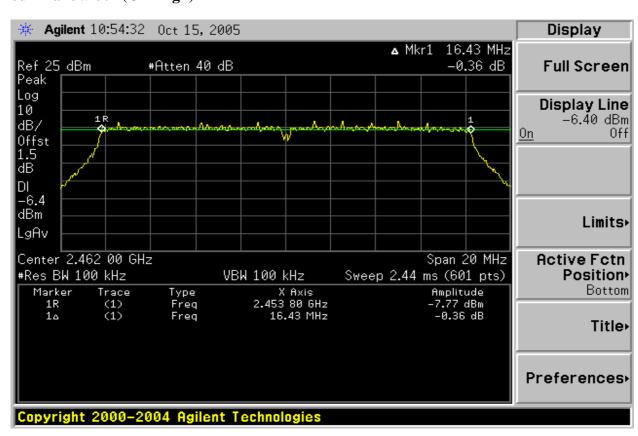
6dB Bandwidth (CH Low)



6dB Bandwidth (CH Mid)



6dB Bandwidth (CH High)



7.2 PEAK POWER

LIMIT

The maximum peak output power of the intentional radiator shall not exceed the following:

1. For systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 watt.

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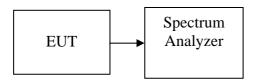
2. Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY44020154	03/05/2006

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



TEST PROCEDURE

The transmitter output is connected to the Spectrum analyzer. The Spectrum analyzer is set to the peak power detection.

TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	Output Power (dBm)	Factor (dB)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	14.89	1.50	16.39	0.04355		PASS
Mid	2437	15.38	1.50	16.88	0.04875	1	PASS
High	2462	14.53	1.50	16.03	0.04009		PASS

Test mode: IEEE 802.11g

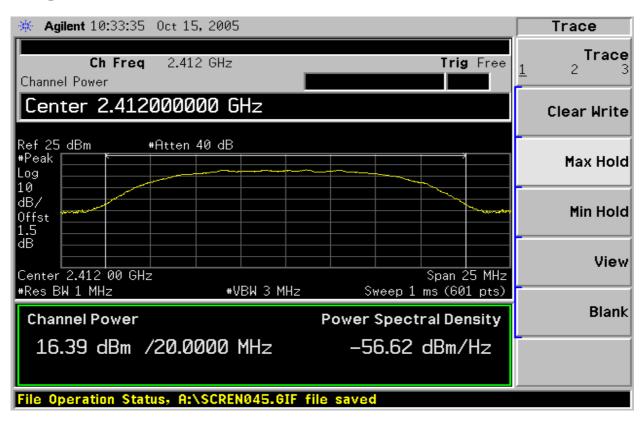
Channel	Frequency (MHz)	Output Power (dBm)	Factor (dB)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	13.80	1.50	15.30	0.03388		PASS
Mid	2437	14.08	1.50	15.58	0.03614	1	PASS
High	2462	13.55	1.50	15.05	0.03199		PASS

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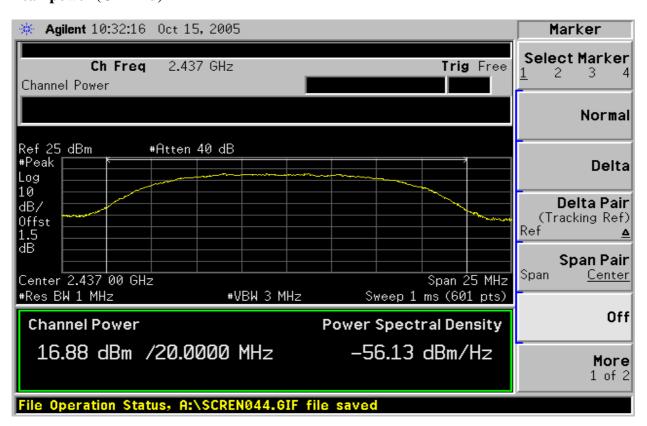
Test Plot

802.11b mode

Peak power (CH Low)

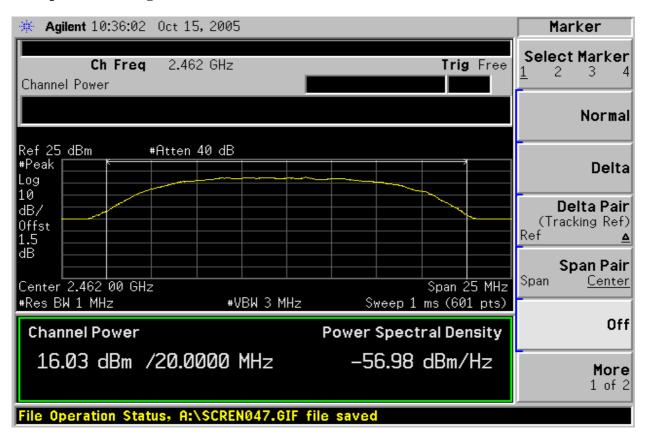


Peak power (CH Mid)



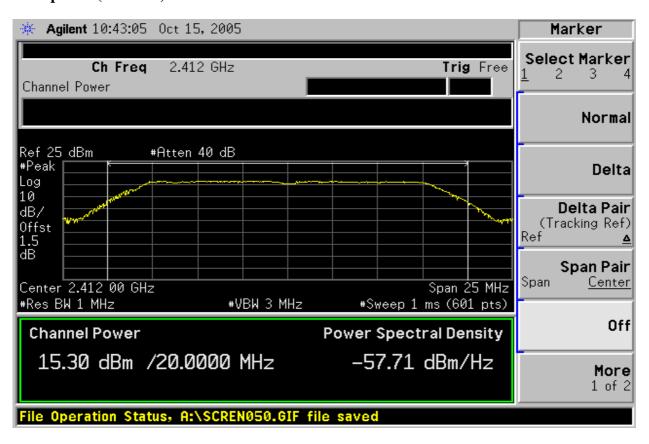
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Peak power (CH High)



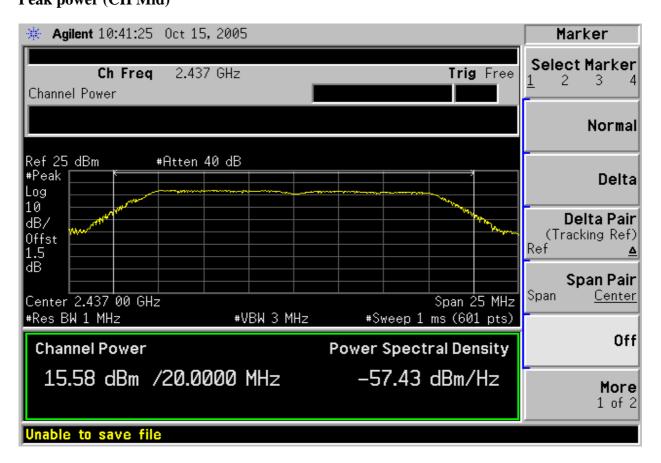
802.11g mode

Peak power (CH Low)

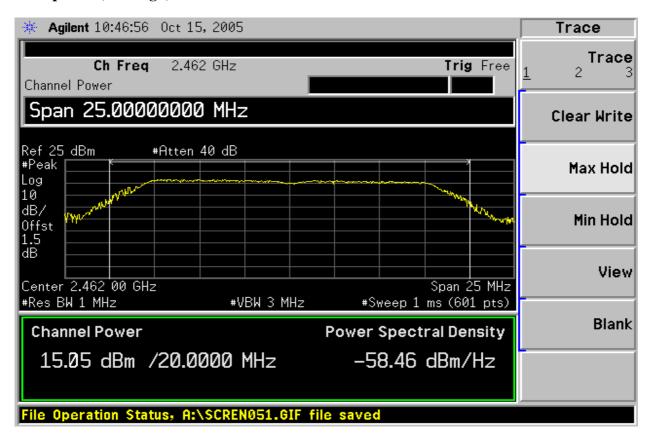




Peak power (CH Mid)



Peak power (CH High)



7.3 BAND EDGES MEASUREMENT

LIMIT

According to §15.247(c), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in15.209(a).

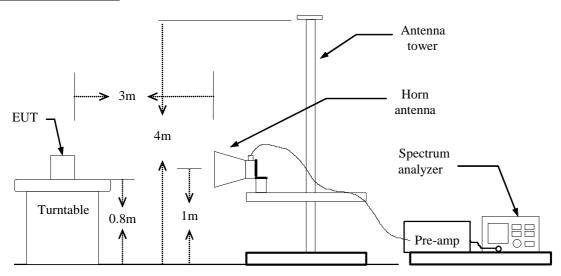
Date of Issue: October 19, 2005

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY44020154	03/05/2006
Horn Antenna	SCHWARZBECK	BBHA9120D	D267	02/04/2006
System Controller	Sunol	SC99V	121501-1	N/A
Turn Table	Sunol	FM3022HS	N/A	N/A
Antenna Mast	Sunol	TWR 99-4	121501-3	N/A
Coax Switch	Anitsu	MP 598	M 80094	N/A
Site NSA	CCS Lab.	N/A	N/A	02/16/2006

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8m above the ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4. Set the spectrum analyzer in the following setting in order to capture the lower and upper

band-edges of the emission:

- (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
- (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO
- 5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

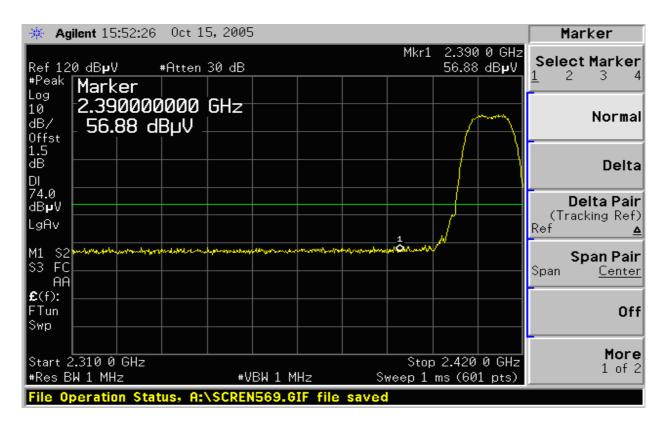
Date of Issue: October19, 2005

TEST RESULTS

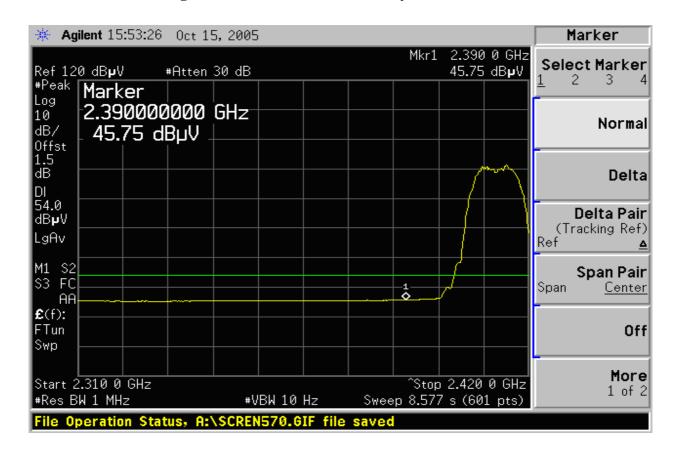
Refer to attach spectrum analyzer data chart.

Band Edges (802.11b / CH Low)

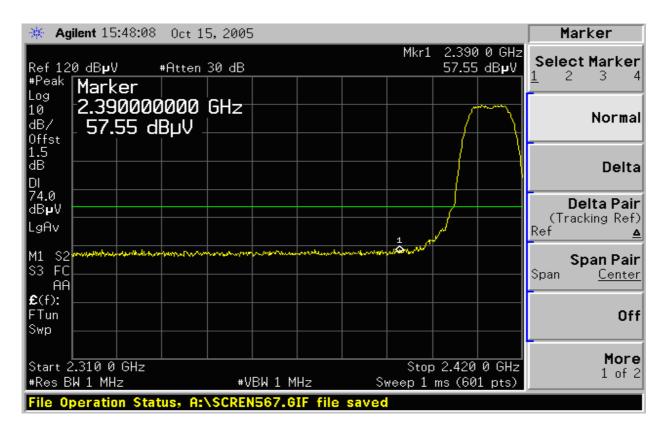
Detector mode: Peak Polarity: Vertical



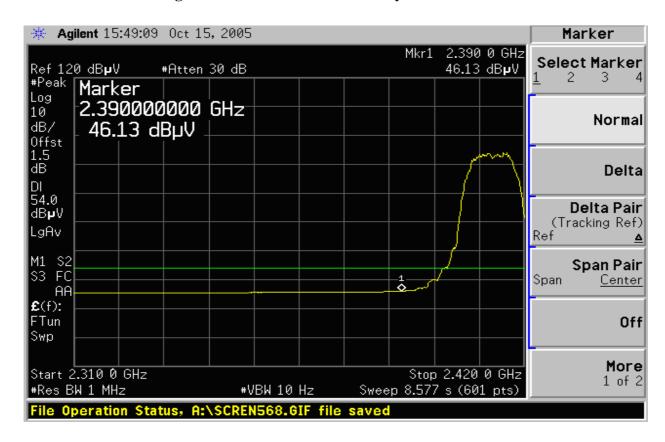
Detector mode: Average Polarity: Vertical



Detector mode: Peak Polarity: Horizontal

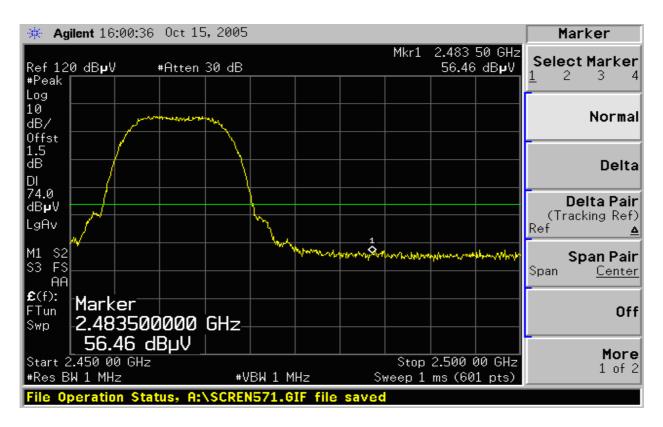


Detector mode: Average Polarity: Horizontal

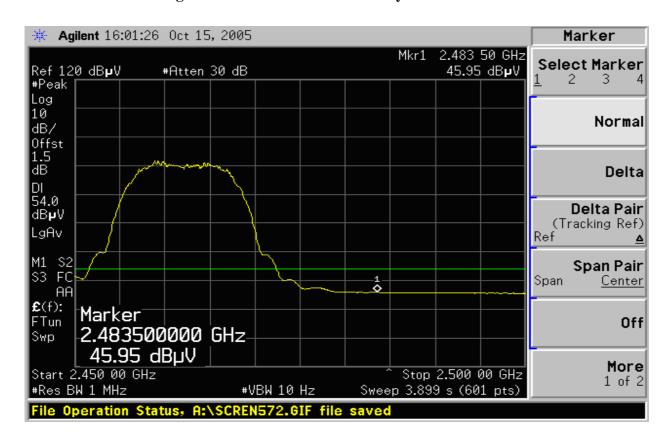


Band Edges (802.11b / CH High)

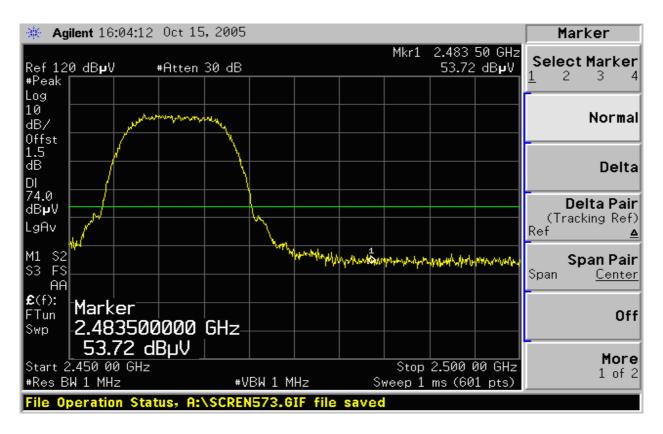
Detector mode: Peak Polarity: Vertical



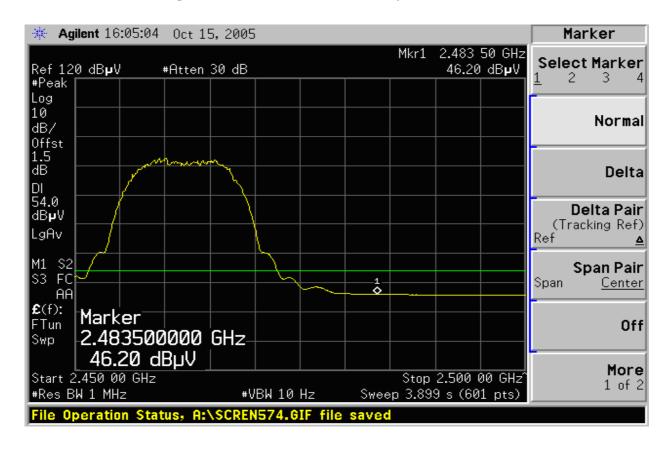
Detector mode: Average Polarity: Vertical



Detector mode: Peak Polarity: Horizontal

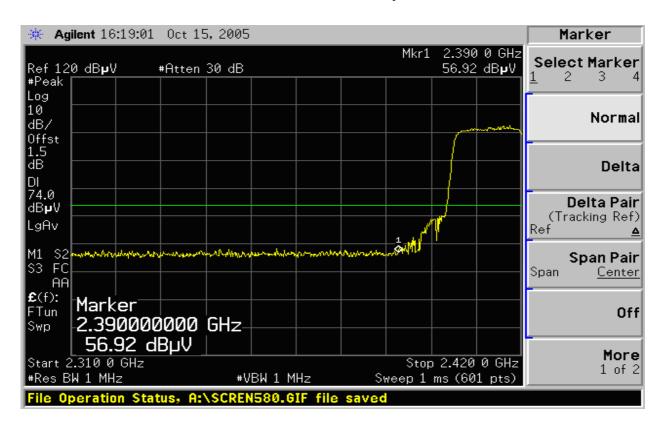


Detector mode: Average Polarity: Horizontal

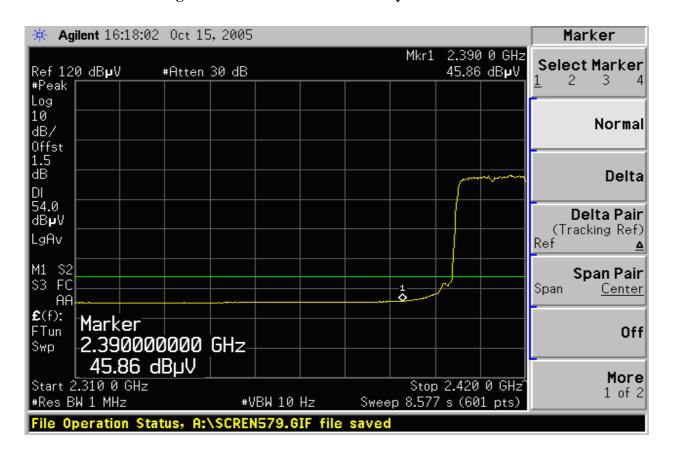


Band Edges (802.11g / CH Low)

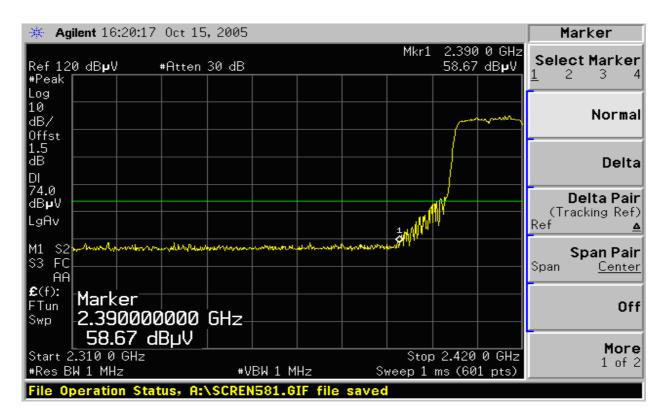
Detector mode: Peak Polarity: Vertical



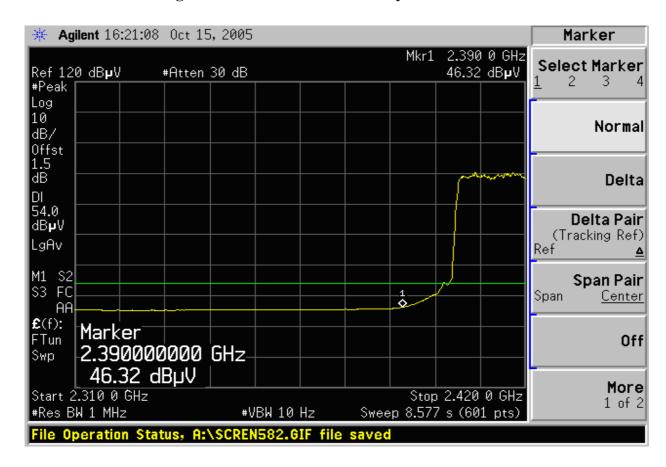
Detector mode: Average Polarity: Vertical



Detector mode: Peak Polarity: Horizontal

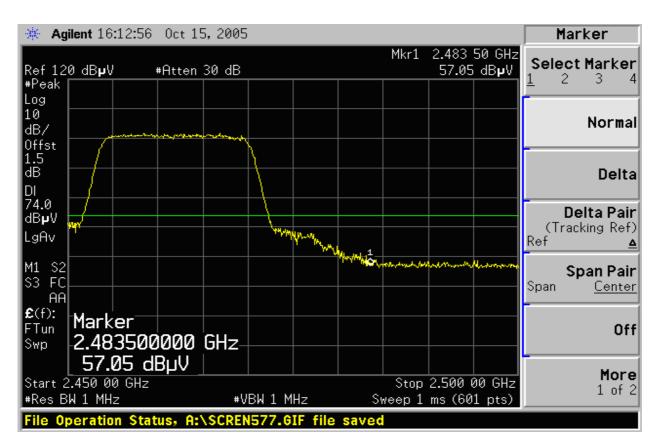


Detector mode: Average Polarity: Horizontal

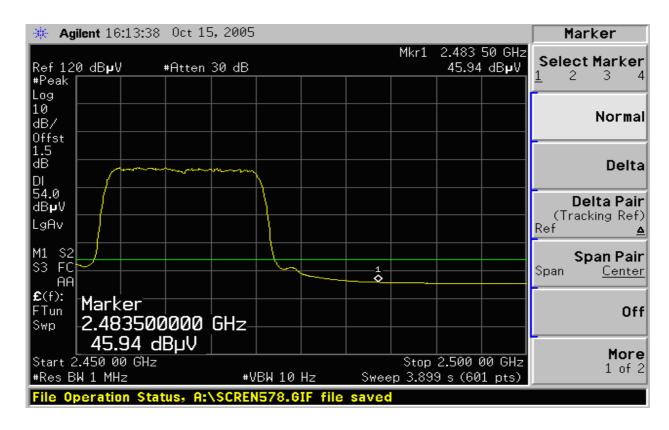


Band Edges (802.11g / CH High)

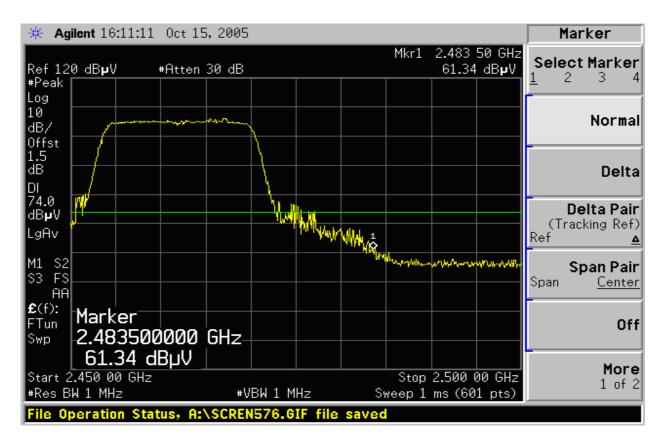
Detector mode: Peak Polarity: Vertical



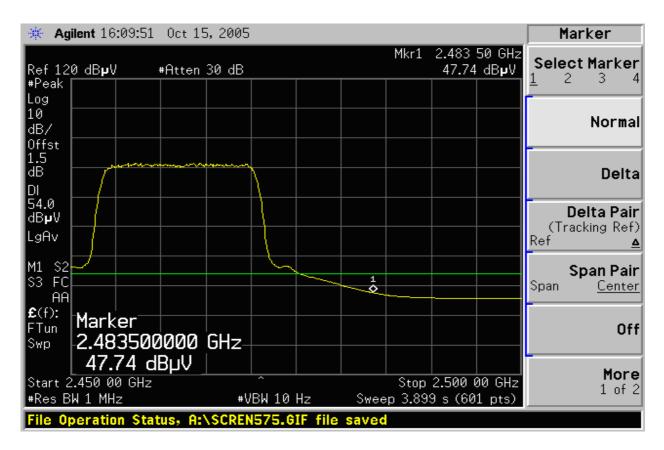
Detector mode: Average Polarity: Vertical



Detector mode: Peak Polarity: Horizontal



Detector mode: Average Polarity: Horizontal



7.4 PEAK POWER SPECTRAL DENSITY

LIMIT

1. For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

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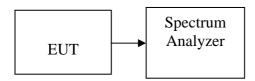
2. The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY44020154	03/05/2006

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



TEST PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.

 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 300kHz, Sweep=100s
- 3. Record the max. reading.
- 4. Repeat the above procedure until the measurements for all frequencies are completed.

TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b

Channel	Frequency	Reading (dBm)	Factor (dB)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-13.72	1.50	-12.22		PASS
Mid	2437	-13.47	1.50	-11.97	8.00	PASS
High	2462	-14.42	1.50	-12.92		PASS

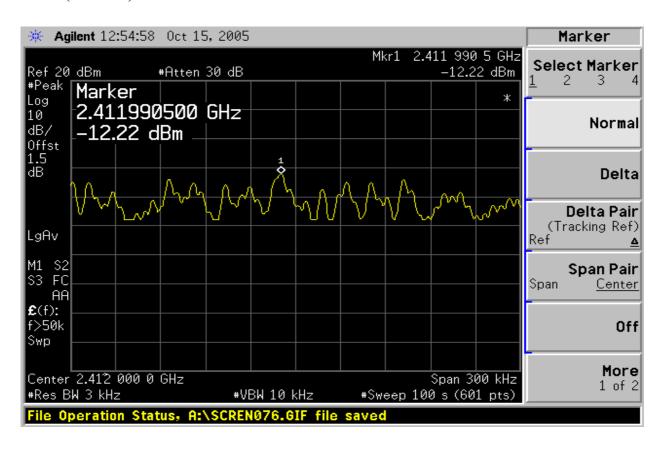
Test mode: IEEE 802.11g

Channel	Frequency	Reading (dBm)	Factor (dB)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-18.98	1.50	-17.48		PASS
Mid	2437	-18.83	1.50	-17.33	8.00	PASS
High	2462	-19.86	1.50	-18.36		PASS

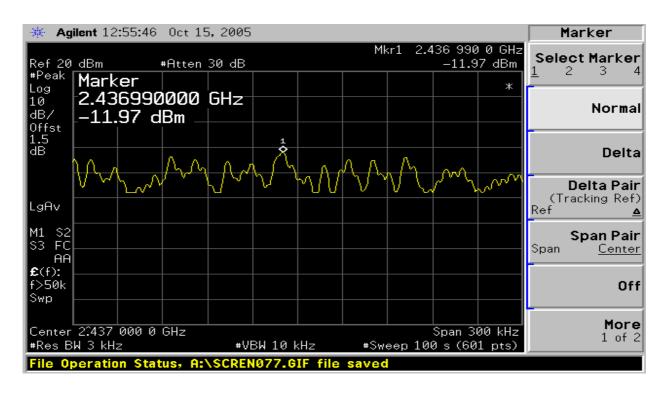
Test Plot

802.11b mode

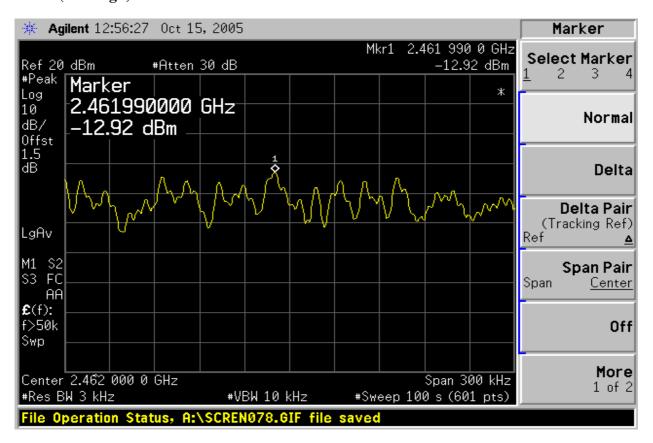
PPSD (CH Low)



PPSD (CH Mid)

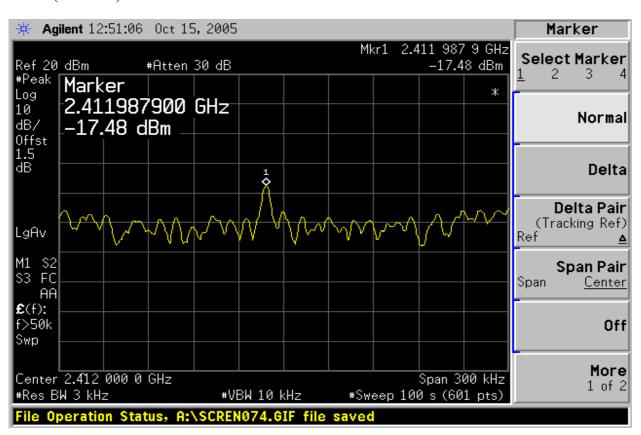


PPSD (CH High)

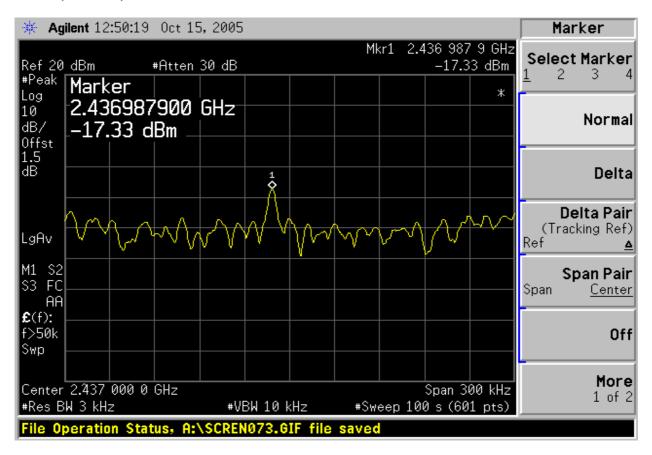


802.11g mode

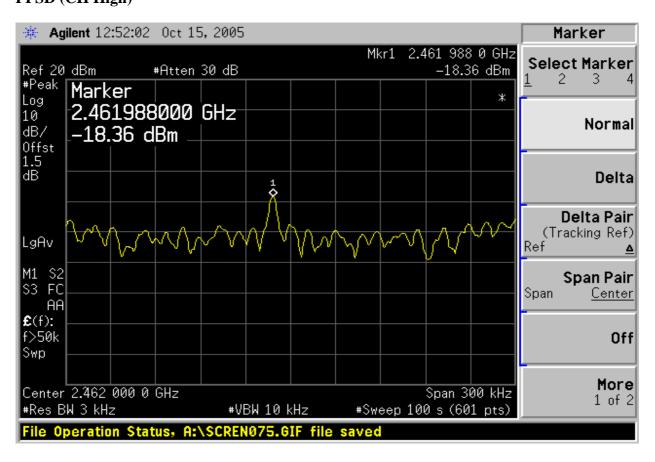
PPSD (CH Low)



PPSD (CH Mid)



PPSD (CH High)



7.5 SPURIOUS EMISSIONS

7.5.1 Conducted Measurement

LIMIT

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

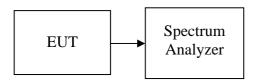
Date of Issue: October 19, 2005

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY44020154	03/05/2006

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



TEST PROCEDURE

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 KHz. The video bandwidth is set to 100 KHz.

Measurements are made over the 30MHz to 26GHzrange with the transmitter set to the lowest, middle, and highest channels.

TEST RESULTS

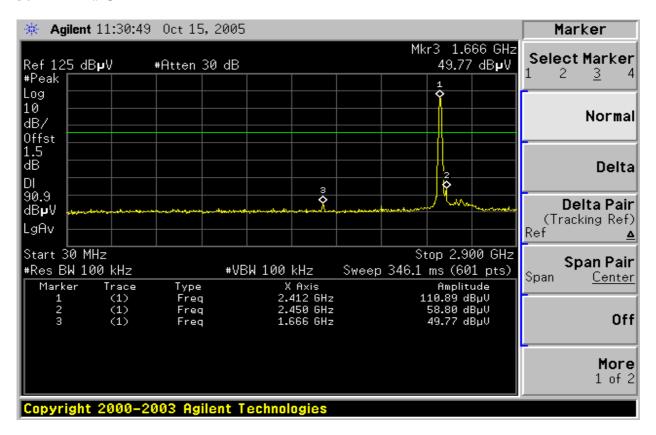
No non-compliance noted

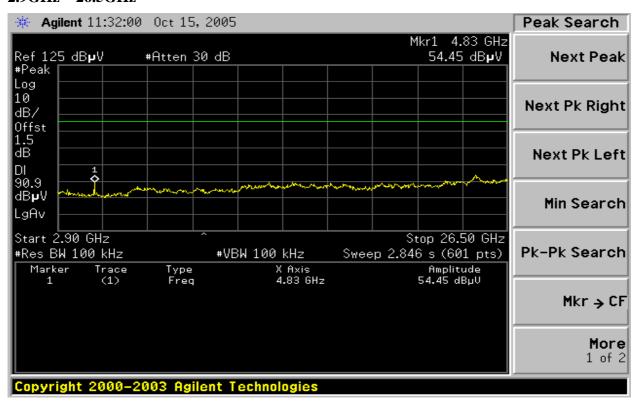


Test Plot

IEEE 802.11b / CH Low

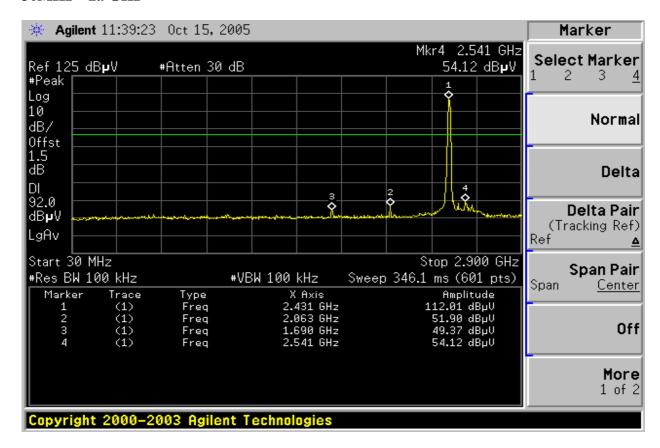
30MHz ~ 2.9GHz

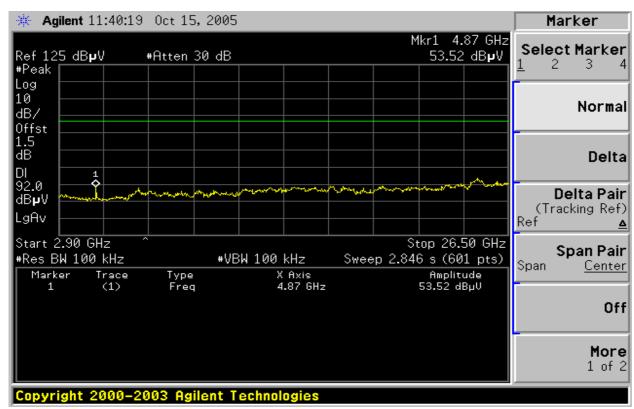




IEEE 802.11b / CH Mid

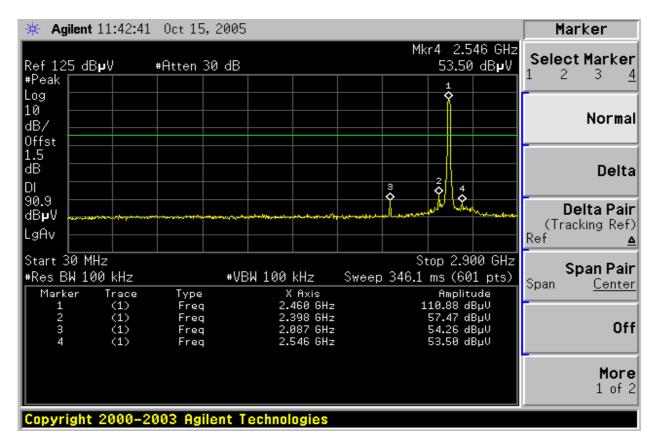
30MHz ~ 2.9GHz

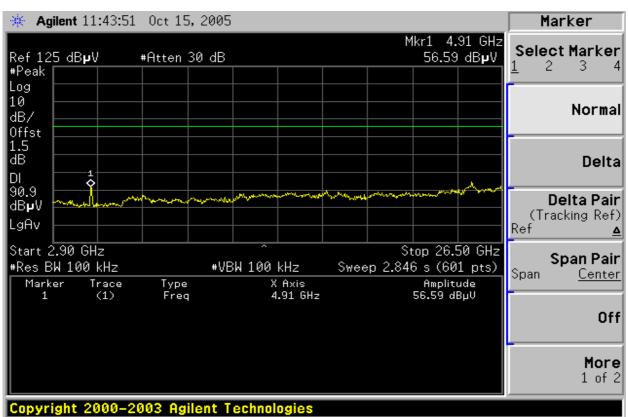




IEEE 802.11b / CH High

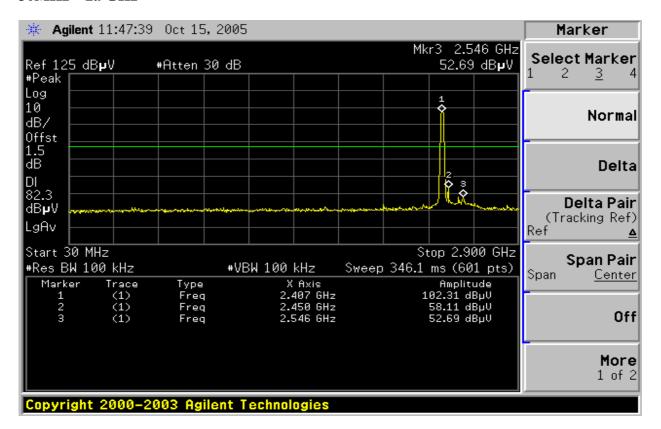
30MHz ~ 2.9GHz

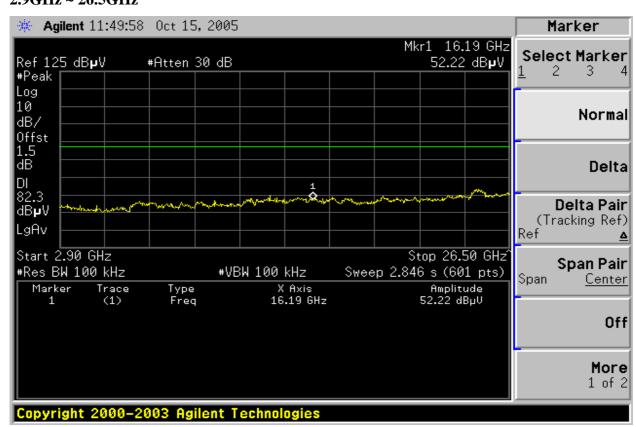




IEEE 802.11g / CH Low

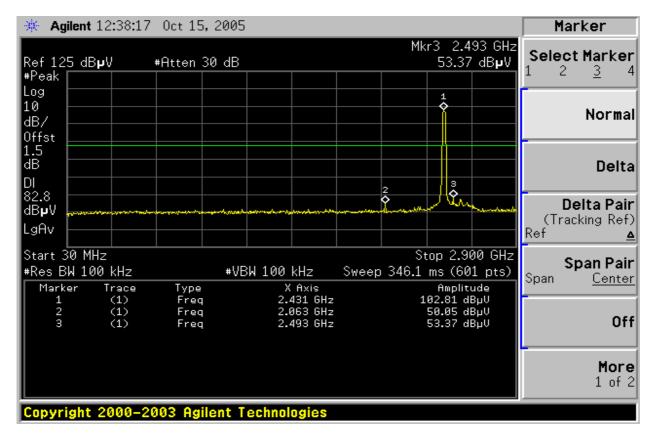
30MHz ~ 2.9GHz

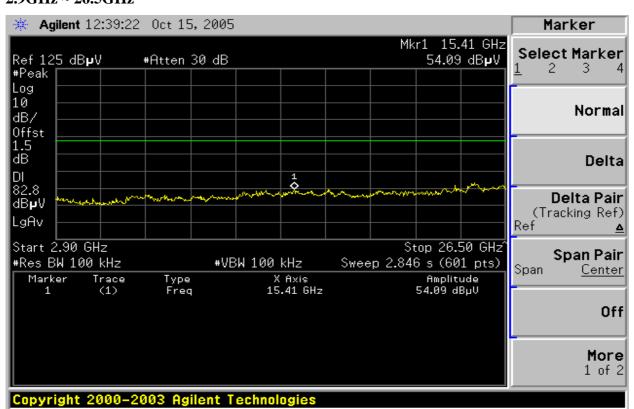




IEEE 802.11g / CH Mid

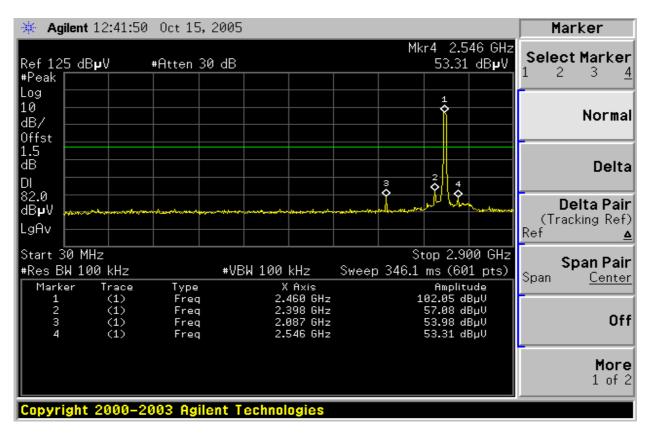
30MHz ~ 2.9GHz

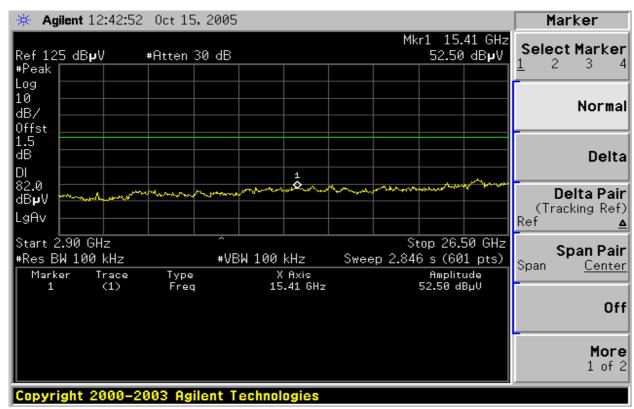




IEEE 802.11g / CH High

30MHz ~ 2.9GHz





7.5.2 Radiated Emissions

LIMIT

1. Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Date of Issue: October 19, 2005

Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)		
30-88	100*	3		
88-216	150*	3		
216-960	200*	3		
Above 960	500	3		

Note: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

2. In the above emission table, the tighter limit applies at the band edges.

Frequency (Hz)	Field Strength (μV/m at 3-meter)	Field Strength (dBµV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

MEASUREMENT EQUIPMENT USED

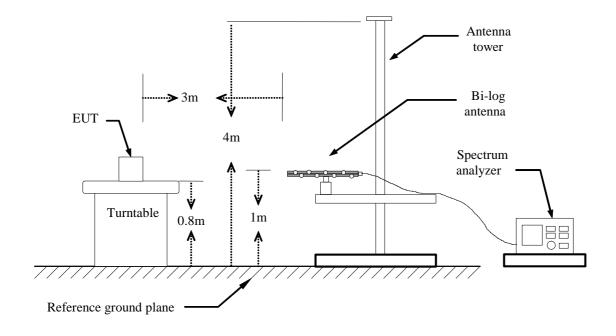
	Test Si	te A (10m chamb	oer)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY44020154	03/05/2006
Bilog Antenna	Schaffner	CBL 6143	5061	12/19/2006
Horn Antenna	SCHWARZBECK	BBHA9120D	D:267	02/04/2006
System Controller	Sunol	SC99V	121501-1	N/A
Turn Table	Sunol	FM3022HS	N/A	N/A
Antenna Mast	Sunol	TWR 99-4	121501-3	N/A
Coax Switch	Anitsu	MP 598	M 80094	N/A
Site NSA	CCS Lab.	N/A	N/A	02/16/2006

Date of Issue: October 19, 2005

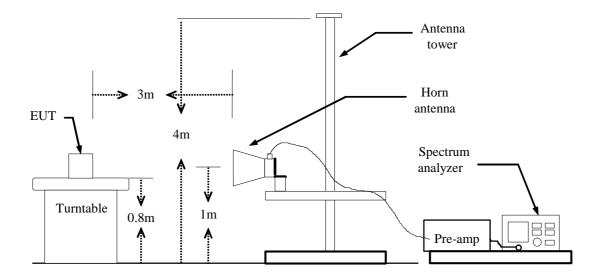
Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration

Below 1 GHz



Above 1 GHz



TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.

TEST RESULTS

Below 1 GHz

Operation Mode: TX / IEEE 802.11b / CH Low
(IEBSEE Antonno)
Test Date: October 16, 2005

(JEBSEE Antenna)

Temperature: 20°C **Tested by:** lin

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Date of Issue: October 19, 2005

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)
162.98	V	Peak	46.26	-18.24	28.02	43.50	-15.48
328.00	V	Peak	42.30	-14.07	28.23	46.00	-17.77
433.00	V	Peak	43.46	-10.82	32.64	46.00	-13.36
602.75	V	QP	47.02	-8.02	42.00	46.00	-7.00
898.50	V	Peak	40.85	-5.58	35.27	46.00	-10.73
800.50	V	Peak	40.39	-6.34	34.05	46.00	-11.95
210.23	Н	Peak	45.86	-16.89	28.97	43.50	-14.53
244.65	Н	Peak	48.36	-16.19	32.17	46.00	-13.83
328.00	Н	Peak	48.62	-14.07	34.55	46.00	-11.45
366.50	Н	Peak	46.26	-12.60	33.66	46.00	-12.34
564.25	Н	Peak	39.67	-8.31	31.36	46.00	-14.64
980.75	Н	Peak	38.26	-4.66	33.60	54.00	-20.40

- 1. Measuring frequencies from 30 MHz to the 1GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

70 % RH

Operation Mode: TX / IEEE 802.11b / CH Low (SmartAnt Antenna) Test Date: October 16, 2005

(Smart in America)

Date of Issue: October19, 2005

Ver. / Hor.

Polarity:

Temperature: 20°C **Tested by:** Lin

Detector Freq. Ant.Pol. Reading **Factor Actual FS** Limit 3m Safe Margin Mode (dBuV) (dBuV/m) (MHz) H/V (dB)(dBuV/m) (dB) (PK/QP) V 45.40 56.67 -21.85 34.82 40.00 -5.18 Peak 130.35 V Peak 43.35 26.49 43.50 -17.01 -16.86 199.20 V 28.82 Peak 45.81 -16.99 43.50 -14.68 V 398.00 Peak 49.59 -12.18 37.41 46.00 -8.59 V -4.33 597.50 Peak 49.31 -7.64 41.67 46.00 V 716.50 Peak 47.47 -6.09 41.38 46.00 -4.62 35.85 Η Peak 48.03 -15.41 32.62 40.00 -7.38 Η 232.50 Peak 47.91 -17.79 30.12 46.00 -15.88 Η 34.32 286.95 Peak 49.23 -14.91 46.00 -11.68 391.00 Η Peak 46.24 34.13 46.00 -12.11 -11.87 716.50 Η Peak 46.71 40.62 46.00 -6.09 -5.38

Notes:

811.00

Н

Humidity:

1. Measuring frequencies from 30 MHz to the 1GHz.

Peak

2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.

-4.12

38.00

46.00

-8.00

- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

42.12

Operation Mode: TX / IEEE 802.11b / CH Mid (JEBSEE Antenna) Test Date: October 16, 2005

Date of Issue: October 19, 2005

Temperature: 20°C **Tested by:** lin

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)
162.98	V	Peak	49.05	-18.24	30.81	43.50	-12.69
328.00	V	Peak	42.45	-14.07	28.38	46.00	-17.62
410.25	V	Peak	48.09	-11.16	36.93	46.00	-9.07
571.25	V	Peak	41.04	-8.26	32.78	46.00	-13.22
669.25	V	Peak	44.01	-7.81	36.20	46.00	-9.80
800.50	V	Peak	39.87	-6.34	33.53	46.00	-12.47
199.43	Н	Peak	45.58	-17.77	27.81	43.50	-15.69
244.65	Н	Peak	48.09	-16.19	31.90	46.00	-14.10
328.00	Н	Peak	50.01	-14.07	35.94	46.00	-10.06
366.50	Н	Peak	45.77	-12.60	33.17	46.00	-12.83
433.00	Н	Peak	42.72	-10.82	31.90	46.00	-14.10
669.25	Н	Peak	46.40	-7.81	38.59	46.00	-7.41

- 1. Measuring frequencies from 30 MHz to the 1GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

Operation Mode: TX / IEEE 802.11b / CH Mid

Test Date: October 16, 2005

Date of Issue: October19, 2005

(SmartAnt Antenna)

Temperature: 20°C **Tested by:** Lin

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)
43.50	V	Peak	56.83	-21.21	35.62	40.00	-4.38
179.40	V	Peak	45.55	-19.34	26.21	43.50	-17.29
260.85	V	Peak	44.75	-16.12	28.63	46.00	-17.37
448.17	V	Peak	49.83	-10.94	38.89	46.00	-7.11
598.67	V	Peak	47.42	-7.58	39.84	46.00	-6.16
702.50	V	Peak	46.55	-5.68	40.87	46.00	-5.13
35.85	Н	Peak	48.54	-15.41	33.13	40.00	-6.87
232.50	Н	Peak	48.26	-17.79	30.47	46.00	-15.53
265.35	Н	Peak	51.51	-15.95	35.56	46.00	-10.44
325.67	Н	Peak	48.61	-14.23	34.38	46.00	-11.62
456.33	Н	Peak	44.57	-10.61	33.96	46.00	-12.04
730.50	Н	Peak	43.37	-5.54	37.83	46.00	-8.17

- 1. Measuring frequencies from 30 MHz to the 1GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

Operation Mode: TX / IEEE 802.11b / CH High (JEBSEE Antenna) Test Date: October 16, 2005

Date of Issue: October 19, 2005

Temperature: 20°C **Tested by:** lin

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)
100.88	V	Peak	44.89	-18.65	26.24	43.50	-17.26
200.10	V	Peak	43.45	-17.74	25.71	43.50	-17.79
455.75	V	Peak	46.27	-10.49	35.78	46.00	-10.22
520.50	V	Peak	48.24	-9.26	38.98	46.00	-7.02
700.75	V	Peak	44.99	-7.39	37.60	46.00	-8.40
835.50	V	Peak	45.21	-5.89	39.32	46.00	-6.68
200.10	Н	Peak	50.37	-17.74	32.63	43.50	-10.87
301.75	Н	Peak	50.18	-15.08	35.10	46.00	-10.90
501.75	Н	Peak	39.85	-9.80	30.05	46.00	-15.95
700.75	Н	Peak	36.92	-7.39	29.53	46.00	-16.47
835.50	Н	Peak	43.27	-5.89	37.38	46.00	-8.62
902.00	Н	Peak	39.70	-5.55	34.15	46.00	-11.85

- 1. Measuring frequencies from 30 MHz to the 1GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

Operation Mode: TX / IEEE 802.11b / CH High (SmartAnt Antenna) Test Date: October 16, 2005

Date of Issue: October19, 2005

Temperature: 20°C **Tested by:** Lin

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)
46.20	V	Peak	57.38	-22.81	34.57	40.00	-5.43
58.80	V	Peak	56.75	-24.44	32.31	40.00	-7.69
260.85	V	Peak	45.34	-16.12	29.22	46.00	-16.78
391.00	V	Peak	50.01	-12.11	37.90	46.00	-8.10
456.33	V	Peak	49.01	-10.61	38.40	46.00	-7.60
716.50	V	Peak	49.89	-6.09	43.80	46.00	-2.20
36.30	Н	Peak	49.19	-15.78	33.41	40.00	-6.59
195.60	Н	Peak	49.25	-17.71	31.54	43.50	-11.96
260.85	Н	Peak	52.54	-16.12	36.42	46.00	-9.58
325.67	Н	Peak	48.56	-14.23	34.33	46.00	-11.67
716.50	Н	Peak	47.34	-6.09	41.25	46.00	-4.75
781.83	Н	Peak	43.72	-4.61	39.11	46.00	-6.89

- 1. Measuring frequencies from 30 MHz to the 1GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

Operation Mode: TX / IEEE 802.11g / CH Low (JEBSEE Antenna) Test Date: October 16, 2005

Date of Issue: October 19, 2005

Temperature: 20°C **Tested by:** lin

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)
100.88	V	Peak	45.85	-18.65	27.20	43.50	-16.30
172.43	V	Peak	44.99	-18.36	26.63	43.50	-16.87
455.75	V	Peak	49.47	-10.49	38.98	46.00	-7.02
520.50	V	Peak	45.16	-9.26	35.90	46.00	-10.10
700.75	V	Peak	45.02	-7.39	37.63	46.00	-8.37
835.50	V	Peak	45.35	-5.89	39.46	46.00	-6.54
200.10	Н	Peak	50.98	-17.74	33.24	43.50	-10.26
301.75	Н	Peak	50.90	-15.08	35.82	46.00	-10.18
501.25	Н	Peak	39.26	-9.80	29.46	46.00	-16.54
700.75	Н	Peak	36.91	-7.39	29.52	46.00	-16.48
835.50	Н	Peak	42.56	-5.89	36.67	46.00	-9.33
902.00	Н	Peak	39.46	-5.55	33.91	46.00	-12.09

- 1. Measuring frequencies from 30 MHz to the 1GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

Operation Mode: TX / IEEE 802.11g / CH Low (SmartAnt Antenna) Test Date: October 16, 2005

Date of Issue: October19, 2005

Temperature: 20°C **Tested by:** Lin

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)
45.50	V	Peak	55.77	-24.50	31.27	40.00	-8.73
162.75	V	Peak	44.34	-17.43	26.91	43.50	-16.59
257.70	V	Peak	43.47	-16.21	27.26	46.00	-18.74
398.00	V	Peak	52.56	-10.61	41.95	46.00	-4.05
651.17	V	Peak	43.40	-6.72	36.68	46.00	-9.32
797.00	V	Peak	39.53	-4.64	34.89	46.00	-11.11
195.60	Н	Peak	48.03	-15.41	32.62	43.50	-7.38
232.45	Н	Peak	52.45	-15.97	36.48	46.00	-9.52
293.25	Н	Peak	49.73	-14.67	35.06	46.00	-10.94
456.33	Н	Peak	43.65	-12.96	33.04	46.00	-12.96
781.83	Н	Peak	41.47	-4.61	36.86	46.00	-9.14
847.17	Н	Peak	42.75	-3.83	38.92	46.00	-7.08

- 1. Measuring frequencies from 30 MHz to the 1GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

Operation Mode: TX / IEEE 802.11g / CH Mid (JEBSEE Antenna) Test Date: October 16, 2005

Date of Issue: October 19, 2005

Temperature: 20°C **Tested by:** lin

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)
162.3000	V	Peak	52.68	-18.23	34.45	43.50	-9.05
183.9000	V	Peak	54.74	-18.18	36.56	43.50	-6.94
250.0500	V	Peak	54.58	-16.12	38.46	46.00	-7.54
482.0000	V	Peak	49.29	-10.10	39.19	46.00	-6.81
667.5000	V	Peak	45.37	-7.84	37.53	46.00	-8.47
917.7500	V	Peak	45.05	-5.32	39.73	46.00	-6.27
96.8250	Н	Peak	53.70	-19.40	34.30	43.50	-9.20
190.6500	Н	Peak	56.94	-18.14	38.80	43.50	-4.70
250.0500	Н	Peak	56.52	-16.12	40.40	46.00	-5.60
401.5000	Н	Peak	47.88	-11.29	36.59	46.00	-9.41
800.5000	Н	Peak	40.30	-6.34	33.96	46.00	-12.04
933.5000	Н	Peak	39.10	-5.08	34.02	46.00	-11.98

- 1. Measuring frequencies from 30 MHz to the 1GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

Operation Mode: TX / IEEE 802.11g / CH Mid (SmartAnt Antenna) Test Date: October 16, 2005

Date of Issue: October19, 2005

Temperature: 20°C **Tested by:** Lin

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)
43.45	V	Peak	55.88	-24.50	31.38	40.00	-8.62
195.60	V	Peak	43.91	-17.71	26.20	43.50	-17.30
293.25	V	Peak	43.72	-14.67	29.05	46.00	-16.95
456.33	V	Peak	50.62	-10.61	40.01	46.00	-5.99
608.00	V	Peak	49.35	-7.42	41.93	46.00	-4.07
716.50	V	Peak	47.68	-6.09	41.59	46.00	-4.41
195.60	Н	Peak	47.58	-17.71	29.87	43.50	-13.63
232.45	Н	Peak	50.10	-16.14	33.96	46.00	-12.04
295.95	Н	Peak	47.87	-14.59	33.28	46.00	-12.72
391.00	Н	Peak	47.23	-12.11	35.12	46.00	-10.88
716.50	Н	Peak	45.94	-6.09	39.85	46.00	-6.15
847.17	Н	Peak	41.99	-3.83	38.16	46.00	-7.84

- 1. Measuring frequencies from 30 MHz to the 1GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

Operation Mode: TX / IEEE 802.11g / CH High (JEBSEE Antenna) Test Date: October 16, 2005

Date of Issue: October 19, 2005

Temperature: 20°C **Tested by:** lin

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)
33.38	V	Peak	38.88	-10.17	28.71	40.00	-11.29
250.05	V	Peak	43.46	-16.12	27.34	46.00	-18.66
401.50	V	Peak	46.41	-11.29	35.12	46.00	-10.88
531.00	V	Peak	44.19	-8.97	35.22	46.00	-10.78
667.50	V	Peak	50.28	-7.84	42.44	46.00	-3.56
952.75	V	Peak	39.54	-4.82	34.72	46.00	-11.28
133.28	Н	Peak	46.28	-16.63	29.65	43.50	-13.85
250.05	Н	Peak	47.53	-16.12	31.41	46.00	-14.59
266.25	Н	Peak	47.22	-15.79	31.43	46.00	-14.57
399.75	Н	Peak	53.63	-11.32	42.31	46.00	-3.69
667.50	Н	Peak	48.61	-7.84	40.77	46.00	-5.23
975.50	Н	Peak	40.65	-4.69	35.96	54.00	-18.04

- 1. Measuring frequencies from 30 MHz to the 1GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

Operation Mode: TX / IEEE 802.11g / CH High (SmartAnt Antenna) Test Date: October 16, 2005

Date of Issue: October19, 2005

Temperature: 20°C **Tested by:** Lin

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)
46.50	V	Peak	54.44	-23.61	30.83	40.00	-9.17
199.20	V	Peak	47.32	-16.99	30.33	43.50	-13.17
287.85	V	Peak	44.45	-14.87	29.58	46.00	-16.42
447.00	V	Peak	47.40	-10.99	36.41	46.00	-9.59
597.50	V	Peak	46.76	-7.64	39.12	46.00	-6.88
811.00	V	Peak	40.70	-4.12	36.58	46.00	-9.42
179.40	Н	Peak	45.77	-19.34	26.43	43.50	-17.07
260.75	Н	Peak	52.76	-16.26	36.50	46.00	-9.50
293.25	Н	Peak	49.77	-14.67	35.10	46.00	-10.90
456.33	Н	Peak	44.86	-10.61	34.25	46.00	-11.75
730.50	Н	Peak	43.56	-5.54	38.02	46.00	-7.98
847.17	Н	Peak	43.29	-3.83	39.46	46.00	-6.54

- 1. Measuring frequencies from 30 MHz to the 1GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

Above 1 GHz

Operation Mode: TX / IEEE 802.11b / CH Low

(JEBSEE Antenna) Test Date: October 16, 2005

Date of Issue: October19, 2005

Temperature: 23°C **Tested by:** lin

Humidity: 56 % RH **Polarity:** Ver. / Hor.

Ewass	Am4 Dol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	Manain	
Freq. (MHz)	Ant. Pol H/V	Reading (dBuV)	Reading (dBuV)	CF (dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4825.00	V	40.84	33.80	10.22	51.06	44.02	74.00	54.00	-9.98	AVG
7233.33	V	41.60	30.28	15.35	56.95	45.63	74.00	54.00	-8.37	AVG
4825.00	Н	40.07	29.93	10.22	50.29	40.15	74.00	54.00	-13.85	AVG
7433.33	Н	41.33	26.43	16.20	57.53	42.63	74.00	54.00	-11.37	AVG

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. $Peak\ Setting\ 1GHz$ 26GHz, RBW=1MHz, VBW=1MHz, $Sweep\ time=200\ ms$.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

Operation Mode: TX / IEEE 802.11b / CH Low (SmartAnt Antenna) Test Date: October 16, 2005

Date of Issue: October19, 2005

Temperature: 23°C Tested by: lin

Humidity: 56 % RH **Polarity:** Ver. / Hor.

Emag	Ant. Pol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	Mangin	
Freq. (MHz)	H/V	Reading (dBuV)	Reading (dBuV)	CF (dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4825.33	V	42.15	32.98	10.22	52.37	43.20	74.00	54.00	-10.80	AVG
7233.37	V	42.06	31.05	15.35	57.41	46.40	74.00	54.00	-7.60	AVG
4825.47	Н	42.07	30.25	10.22	52.29	40.47	74.00	54.00	-13.53	AVG
7433.37	Н	42.01	25.05	16.20	58.21	41.25	74.00	54.00	-12.75	AVG

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

Operation Mode: TX / IEEE 802.11b / CH Mid (JEBSEE Antenna) Test Date: October 16, 2005

Date of Issue: October 19, 2005

Temperature: 20°C **Tested by:** lin

Humidity: 70 % RH **Polarity:** Ver. / Hor.

E	Am4 Dol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	Manain	
Freq. (MHz)	Ant. Pol H/V	Reading (dBuV)	Reading (dBuV)	CF (dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4875.00	V	39.55	29.72	10.51	50.06	40.23	74.00	54.00	-13.77	AVG
7316.66	V	42.35	25.58	15.79	58.14	41.37	74.00	54.00	-12.63	AVG
4875.00	Н	39.18	30.85	10.51	49.69	41.36	74.00	54.00	-12.64	AVG
7308.33	Н	41.74	26.60	15.75	57.49	42.35	74.00	54.00	-11.65	AVG

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

Operation Mode: TX / IEEE 802.11b / CH Mid (SmartAnt Antenna) Test Date: October 16, 2005

Date of Issue: October 19, 2005

Temperature: 20°C **Tested by:** lin

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	Margin	
(MHz)	H/V	Reading (dBuV)	Reading (dBuV)	CF (dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	(JD)	Remark
4925.26	V	43.83	33.98	10.80	54.63	44.78	74.00	54.00	-9.22	AVG
7375.17	V	44.88	29.25	16.11	60.99	45.36	74.00	54.00	-8.64	AVG
				T		1				
4908.27	Н	44.05	34.13	10.70	54.75	44.83	74.00	54.00	-9.71	AVG
7374.25	Н	43.82	29.41	16.11	59.93	45.52	74.00	54.00	-8.48	AVG

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

Operation Mode: TX / IEEE 802.11b / CH High (JEBSEE Antenna) Test Date: October 16, 2005

Date of Issue: October 19, 2005

Temperature: 20°C **Tested by:** lin

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Ewaa	Ant. Pol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	Monain	
Freq. (MHz)	H/V	Reading (dBuV)	Reading (dBuV)	CF (dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4925.00	V	38.25		10.80	49.05		74.00	54.00	-4.95	Peak
7383.33	V	41.86	26.12	16.15	58.01	42.27	74.00	54.00	-11.73	AVG
4925.67	Н	38.02		10.89	48.91		74.00	54.00	-5.09	Peak
7381.67	Н	39.76	27.01	16.20	55.96	43.21	74.00	54.00	-10.79	AVG

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

Operation Mode: TX / IEEE 802.11b / CH High (SmartAnt Antenna) Test Date: October 16, 2005

Date of Issue: October19, 2005

Temperature: 20°C Tested by: lin

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Ewsa	Am4 Dol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	Manain	
Freq. (MHz)	Ant. Pol H/V	Reading (dBuV)	Reading (dBuV)	CF (dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		Remark
4925.00	V	37.09		10.80	47.89		74.00	54.00	-6.11	Peak
7383.33	V	40.01	24.10	16.15	56.16	40.25	74.00	54.00	-13.75	AVG
4941.67	Н	37.94		10.89	48.83		74.00	54.00	-5.17	Peak
7391.67	Н	38.25	25.06	16.20	54.45	41.26	74.00	54.00	-12.74	AVG

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

Operation Mode: TX / IEEE 802.11g / CH Low (JEBSEE Antenna) Test Date: October 16, 2005

Date of Issue: October19, 2005

Temperature: 20°C Tested by: lin

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Ewass	Am4 Dol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	Manain	
Freq. (MHz)	Ant. Pol H/V	Reading (dBuV)	Reading (dBuV)	CF (dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		Remark
4825.00	V	39.93	32.30	10.22	50.15	42.53	74.00	54.00	-11.48	AVG
7333.33	V	40.30	27.80	15.88	56.18	43.68	74.00	54.00	-10.32	AVG
		ı		ı		T T		T		1
4825.00	Н	40.33	32.90	10.22	50.55	43.12	74.00	54.00	-10.88	AVG
7241.67	Н	43.46	28.86	15.39	58.85	44.25	74.00	54.00	-9.75	AVG

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

Operation Mode: TX / IEEE 802.11g / CH Low (SmartAnt Antenna) Test Date: October 16, 2005

Date of Issue: October19, 2005

Temperature: 20°C **Tested by:** lin

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Errog	Ant. Pol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	Mongin	
Freq. (MHz)	H/V	Reading (dBuV)	Reading (dBuV)	CF (dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4825.00	V	35.95		10.22	46.17		74.00	54.00	-7.83	Peak
7250.00	V	36.15		15.44	51.59		74.00	54.00	-2.41	Peak
4825.00	Н	35.54		10.22	45.76		74.00	54.00	-8.24	Peak
7233.33	Н	36.02		15.35	51.37		74.00	54.00	-2.63	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GHz 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

Operation Mode: TX / IEEE 802.11g / CH Mid (JEBSEE Antenna) Test Date: October 16, 2005

Date of Issue: October 19, 2005

Temperature: 20°C **Tested by:** lin

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Ewaa	Ant. Pol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	Monain	
Freq. (MHz)	H/V	Reading (dBuV)	Reading (dBuV)	CF (dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4875.00	V	39.42	31.50	10.51	49.93	42.01	74.00	54.00	-11.99	AVG
7316.67	V	42.35	27.42	15.79	58.14	43.21	74.00	54.00	-10.79	AVG
4875.00	Н	40.31	31.54	10.51	50.82	42.05	74.00	54.00	-11.95	AVG
7316.67	Н	42.27	27.53	15.79	58.06	43.32	74.00	54.00	-10.68	AVG

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

Operation Mode: TX / IEEE 802.11g / CH Mid (SmartAnt Antenna) Test Date: October 16, 2005

Date of Issue: October19, 2005

Temperature: 20°C **Tested by:** lin

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Errog	Ant. Pol	Peak	AV	Ant. / CL	Actu	al Fs	Peak	AV	Mongin	
Freq. (MHz)	H/V	Reading (dBuV)	Reading (dBuV)	CF (dB)	Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4866.67	V	36.61		10.46	47.07		74.00	54.00	-6.93	Peak
7308.33	V	35.86		15.75	51.61		74.00	54.00	-2.39	Peak
								,		
4866.67	Н	35.56		10.46	46.02		74.00	54.00	-7.98	Peak
7300.00	Н	36.04		15.70	51.74		74.00	54.00	-2.26	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

Operation Mode: TX / IEEE 802.11g / CH High (JEBSEE Antenna) Test Date: October 16, 2005

Date of Issue: October 19, 2005

Temperature: 20°C **Tested by:** lin

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Ewaa	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak	AV	Mongin	
Freq. (MHz)					Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		Remark
4925.00	V	41.31	30.56	10.80	52.11	41.36	74.00	54.00	-12.64	AVG
7375.00	V	42.08	26.07	16.11	58.19	42.18	74.00	54.00	-11.82	AVG
4925.00	Н	41.68	30.85	10.80	52.48	41.65	74.00	54.00	-12.35	AVG
7433.33	Н	41.05	26.15	16.20	57.25	42.35	74.00	54.00	-11.65	AVG

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

Operation Mode: TX / IEEE 802.11g / CH High (SmartAnt Antenna) Test Date: October 16, 2005

Date of Issue: October19, 2005

Temperature: 20°C **Tested by:** lin

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq.	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak	AV	Margin	
(MHz)					Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)	(JD)	Remark
4941.67	V	38.10		10.89	48.99		74.00	54.00	-5.01	Peak
7308.33	V	36.07		15.75	51.82		74.00	54.00	-2.18	Peak
4925.00	Н	37.23		10.80	48.03		74.00	54.00	-5.97	Peak
7383.33	Н	35.16		16.15	51.31		74.00	54.00	-2.69	Peak

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = 200 ms.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = 200 ms.

7.6 POWERLINE CONDUCTED EMISSIONS

LIMIT

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Date of Issue: October19, 2005

Frequency Range (MHz)	Limits (dBµV)					
Frequency Range (MIIIZ)	Quasi-peak	Average				
0.15 to 0.50	66 to 56	56 to 46				
0.50 to 5	56	46				
5 to 30	60	50				

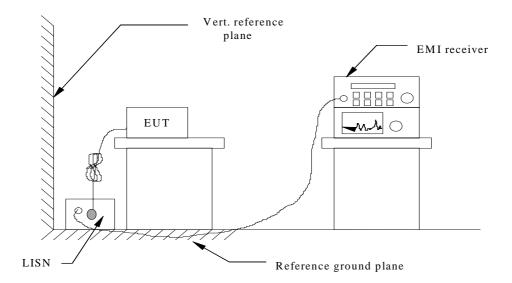
Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

MEASUREMENT EQUIPMENT USED

Conducted Emission Test Site A (10m chamber)									
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due					
EMI Test Receiver	R&S	ESI26	100068	02/11/2006					
EMC Analyzer	Agilent	E7402A	US41160329	02/11/2006					
LISN	FCC	FCC-LISN-50-50-2-M	01067	02/11/2006					
LISN (EUT)	FCC	FCC-LISN-50-50-2-M	01068	02/11/2006					
TRANSIENT LIMITER	SCHAFFNER	CFL9206	1710	03/15/2006					
EMI Monitor control box	FCC	0-SVDC	N/A	N/A					

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

- 1. The EUT was placed on a table, which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Test Data

Model: DMP3000 Test Mode: Operation

Temperature: 30°C **Humidity:** 60% RH

Tested by: lin Test Results: Pass

(The chart below shows the highest readings taken from the final data)

Freq. (MHz)	PEAK. Raw	Q.P. Raw	AVG Raw	Q.P. Limit	AVG Limit	Margin (dB)	Factor (dB)	Remark
0.224	(dBuV)	(dBuV)	(dBuV)	(dBuV)	$\frac{(\mathbf{dBuV})}{52.00}$	20.06	10.20	T 1
0.224	53.64	40.91	33.82	63.88	53.88	-20.06	10.30	L1
0.331	49.00	41.81	34.78	60.81	50.81	-16.03	10.30	L1
0.372	46.87	40.17	30.75	59.64	49.64	-18.89	10.30	L1
0.435	44.38	38.02	30.78	57.84	47.84	-17.06	10.33	L1
0.683	43.42	37.76	29.61	56.00	46.00	-16.39	10.40	L1
0.913	43.98	37.76	30.23	56.00	46.00	-15.77	10.46	L1
1.039	43.00	37.38	30.74	56.00	46.00	-15.26	10.48	L1
1.640	43.49	37.61	31.02	56.00	46.00	-14.98	10.55	L1
2.561	41.97	33.48	25.60	56.00	46.00	-20.40	10.65	L1
4.741	41.73	32.66	24.04	56.00	46.00	-21.96	10.95	L1
9.222	43.77	35.14	12.71	60.00	50.00	-37.29	11.61	L1
10.761	40.80	36.61	34.26	60.00	50.00	-15.74	11.75	L1
0.231	43.69			63.67	53.67	-9.98	10.39	L2
0.331	41.39			60.81	50.81	-9.42	10.38	L2
0.698	34.91			56.00	46.00	-11.09	10.51	L2
1.644	36.35			56.00	46.00	-9.65	10.65	L2
2.272	38.28			56.00	46.00	-7.72	10.73	L2
3.779	39.53			56.00	46.00	-6.47	11.06	L2
7.667	37.80			60.0	50.0	-12.20	11.53	L2
9.222	43.70			60.0	50.0	-6.30	11.71	L2
10.761	40.06			60.0	50.0	-9.94	11.84	L2

L1 = Line One (Live Line) / L2 = Line Two (Neutral Line)

Remark:

- 1. The measuring frequencies range between 0.15 MHz and 30 MHz.
- 2. The emissions measured in the frequency range between 0.15 MHz and 30MHz were made with an instrument using Quasi-peak detector and Average detector.
- 3. "---" denotes the emission level was or more than 2dB below the Average limit, and no re-check was made.
- 4. The IF bandwidth of SPA between 0.15MHz and 30MHz was 10KHz. The IF bandwidth of Test Receiver between 0.15MHz and 30MHz was 9kHz.

Note:

Freq. = Emission frequency in KHz

 $Factor(dB) = cable\ loss + Insertion\ loss\ of\ LISN + Insertion\ loss\ of\ TRANSIENT\ LIMITER$ (The

TRANSIENT LIMITER included 10 dB ATTENUATION)

Amptd dBuV = Uncorrected Analyzer/Receiver reading + cable loss + Insertion loss of LISN+

Insertion loss of TRANSIENT LIMITER,

if it > 0.5 dB

Limit dBuV = Limit stated in standard

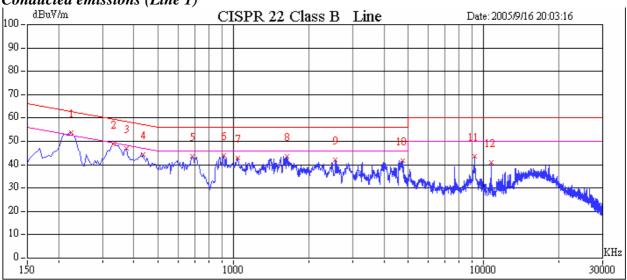
Margin dB = Reading in reference to limit

Calculation Formula

Margin(dB) = Amptd(dBuV) - Limit(dBuV)

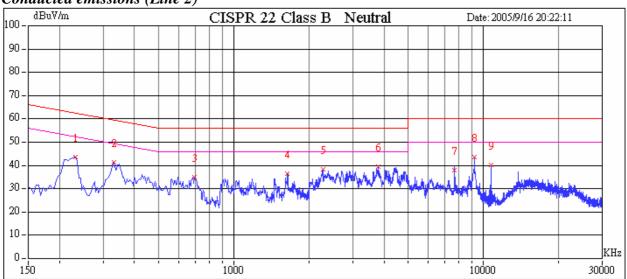
Test Plot





Test Plot

Conducted emissions (Line 2)



Common Mode Conducted Emission

Not applicable