FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

7" TABLE TOP TOUCH SCREEN, 7" IN-WALL TOUCH SCREEN

Model: C4-TST7-EG-B, C4-TSWM7-EG-B

Trade Name: Control4

Issued to

Control4 11734 S. Election Road Suite 200 Draper, UT 84020 United States

Issued by



Compliance Certification Services Inc.
No. 11, Wu-Gong 6th Rd., Wugu Industrial Park,
Taipei Hsien 248, Taiwan (R.O.C.)
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Date of Issue: December 30, 2008

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FCC ID: R33C4TSX7EG Date of Issue: December 30, 2008

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1. TEST RESULT CERTIFICATION

Applicant: Control4

11734 S. Election Road Suite 200 Draper,

Date of Issue: December 30, 2008

UT 84020 United States

Equipment Under Test: 7" TABLE TOP TOUCH SCREEN,

7" IN-WALL TOUCH SCREEN

Trade Name: Control4

Model: C4-TST7-EG-B,

C4-TSWM7-EG-B

Date of Test: November 27 ~ December 25, 2008

APPLICABLE STANDARDS			
STANDARD	TEST RESULT		
FCC 47 CFR 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: 2003** 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:	Reviewed by:		
Rex. La:	Amaddle		
Rex Lai	Amanda Wu		
Section Manager	Section Manager		
Compliance Certification Services Inc.	Compliance Certification Services Inc.		

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2. EUT DESCRIPTION

	I		
Product	7" TABLE TOP TOUCH SCREEN,		
	7" IN-WALL TOUCH SCREEN		
Trade Name	Control4		
Model Number	C4-TST7-EG-B,		
1,10del I (dilloci	C4-TSWM7-EG-B		
	Model	Type	
Model Discrepancy	C4-TST7-EG-B	Tabletop	
	C4-TSWM7-EG-B	Wall-Mount	
	LIEN ELECTRONIES, INC. / LE-	0309BDSP12V	
Power Adapter	I/P: 100-240V, 50-60Hz, 1.4A		
	O/P: 12V, 3.5A Max. 42W		
AC adapter Type x 2	Unshielded, 1.7m (Non-detachable) with a		
The adapter Type x 2	Unshielded, 0.15m (Non-detachable) with a core for C4-TSWM7-EG-B		
DC Power Cable Type	Unshielded, 1.8m		
DC Tower Cable Type	Olishiciaca, 1.olii		
Engguenay Danga	2412 ~ 2462 MHz		
Frequency Range	2412 ~ 2402 MHZ		
T	IEEE 802.11b: 20.12 dBm		
Transmit Power	IEEE 802.11g: 20.20 dBm		
	IEEE 802.11b: DSSS (CCK, DQPS	SK, DBPSK)	
Modulation Technique	IEEE 802.11g: DSSS (CCK, DQPSK, DBPSK) +		
	OFDM (QPSK, BPSK, 16-QAM, 64-QAM)		
Transmit Data Rate	IEEE 802.11b Mode: 11, 5.5, 2, 1 Mbps		
	IEEE 802.11g Mode: 54, 48, 36, 24	1, 18, 12, 11, 9, 6, 5.5, 2, 1Mbps	
Number of Channels	11 Channels		
Trainiber of Channels	11 Chamicis		
Antenna Specification	Gain: 2 dBi		
Antenna Specification	Gain. 2 udi		
Antonno Designation	ionation Omni Antonno		
Antenna Designation	Omni Antenna		

Remark:

- 1. The sample selected for test was production product and was provided by manufacturer.
- 2. This submittal(s) (test report) is intended for FCC ID: <u>R33C4TSX7EG</u> filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.

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3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4: 2003 and FCC CFR 47 Part 15.207, 15.209 and 15.247.

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: 2003 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 maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4: 2003.

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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:

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.

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² Above 38.6

⁽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 comes with two types for sale. After the preliminary test, the worst case is Wall-Mount had been found to emit the worst emissions and had been tested under operation condition.

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Software used to control the EUT for staying in continuous transmitting mode was programmed.

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz and power line conducted emissions below 30MHz, which worst case was in normal link mode only.

IEEE 802.11b mode:

Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 1Mbps data rate were chosen for the final testing.

IEEE 802.11b mode:

Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 6Mbps data rate were chosen for the final testing.

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4. INSTRUMENT CALIBRATION

4.1 MEASURING 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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4.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

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

Conducted Emissions Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Spectrum Analyzer	Agilent	E4446A	MY43360131	02/24/2009	

3M Semi Anechoic Chamber							
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Spectrum Analyzer	Agilent	E4446A	US42510252	09/10/2009			
Loop Antenna	EMCO	6502	8905/2356	05/28/2010			
Test Receiver	Rohde&Schwarz	ESCI	100064	11/30/2009			
Switch Controller	TRC	Switch Controller	SC94050010	05/03/2009			
4 Port Switch	TRC	4 Port Switch	SC94050020	05/03/2009			
Horn-Antenna	TRC	HA-0502	06	06/04/2009			
Horn-Antenna	TRC	HA-0801	04	06/18/2009			
Horn-Antenna	TRC	HA-1201A	01	10/15/2009			
Horn-Antenna	TRC	HA-1301A	01	10/15/2009			
Bilog- Antenna	Sunol Sciences	JB3	A030205	03/28/2009			
Turn Table	Max-Full	MFT-120S	T120S940302	N.C.R.			
Antenna Tower	Max-Full	MFA-430	A440940302	N.C.R.			
Controller	Max-Full	MF-CM886	CC-C-1F-13	N.C.R.			
Site NSA	CCS	N/A	FCC MRA: TW1039 IC: IC 2324G-1/-2	10/17/2010 11/04/2010			
Test S/W	LABVIEW (V 6.1)						

Powerline Conducted Emissions Test Site						
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due		
EMI TEST RECEIVER 9kHz-30MHz	ROHDE & SCHWARZ	ESHS30	828144/003	11/18/2009		
TWO-LINE V-NETWORK 9kHz-30MHz	SCHAFFNER	NNB41	03/10013	06/11/2009		
LISN 10kHz-100MHz	EMCO	3825/2	9106-1809	04/09/2009		
Test S/W	LABVIEW (V 6.1)					

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4.3 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
Powerline Conducted Emission	+/- 2.81
3M Semi Anechoic Chamber / 30MHz ~ 1GHz	+/-3.7046
3M Semi Anechoic Chamber / 1GHz 以上	+/-3.0958

Remark: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at
No.199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C.
Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029
No.11, Wugong 6th Rd., Wugu Industrial Park, Taipei Hsien 248, Taiwan
Tel: 886-2-2299-9720 / Fax: 886-2-2298-4045
No.81-1, Lane 210, Bade 2nd Rd., Luchu Hsiang, Taoyuan Hsien 338, Taiwan
Tel: 886-3-324-0332 / Fax: 886-3-324-5235
The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4: 2003 and CISPR Publication 22.

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."

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5.3 TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	FCC	3M Semi Anechoic Chamber (FCC MRA: TW1039) to perform FCC Part 15 measurements	FCC MRA: TW1039
Taiwan	TAF	LP0002, RTTE01, FCC Method-47 CFR Part 15 Subpart C, D, E, RSS-210, RSS-310 IDA TS SRD, AS/NZS 4268, AS/NZS 4771, TS 12.1 & 12,2, ETSI EN 300 440-1, ETSI EN 300 440-2, ETSI EN 300 328, ETSI EN 300 220-1, ETSI EN 300 220-2, ETSI EN 301 893, ETSI EN 301 489-1/3/7/17 FCC OET Bulletin 65 + Supplement C, EN 50360, EN 50361, EN 50371, RSS 102, EN 50383, EN 50385, EN 50392, IEC 62209, CNS 14958-1, CNS 14959 FCC Method -47 CFR Part 15 Subpart B IEC / EN 61000-3-2, IEC / EN 61000-3-3, IEC / EN 61000-4-2/3/4/5/6/8/11	Testing Laboratory 1309
Canada	Industry Canada	3M Semi Anechoic Chamber (IC 2324G-1 / IC 2324G-2) to perform	Canada IC 2324G-1 IC 2324G-2

^{*} No part of this report may be used to claim or imply product endorsement by A2LA or any agency of the US Government.

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6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

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

6.2 SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	Series No.	FCC ID	Data Cable	Power Cord
1.	Notebook PC	DELL	PP10L	50XP51J	FCC DoC	Unshielded, 1.5m	AC I/P: Unshielded, 1.8m DC O/P: Unshielded, 1.8m with a core

Remark:

- 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.

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7. FCC PART 15.247 REQUIREMENTS

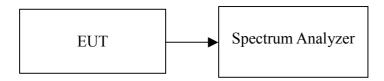
7.1 6DB BANDWIDTH

LIMIT

According to §15.247(a)(2), systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

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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 = 50MHz, Sweep = auto.
- 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.

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Test Data

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
Low	2412	9830		PASS
Mid	2437	10000	>500	PASS
High	2462	9830		PASS

Test mode: IEEE 802.11g

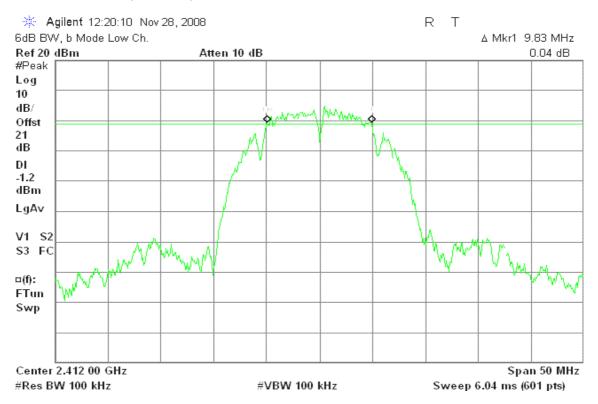
Channel	Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
Low	2412	16500		PASS
Mid	2437	16500	>500	PASS
High	2462	16500		PASS

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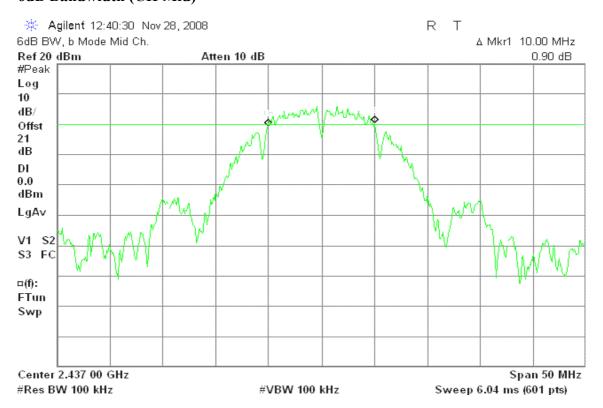
Test Plot

IEEE 802.11b

6dB Bandwidth (CH Low)

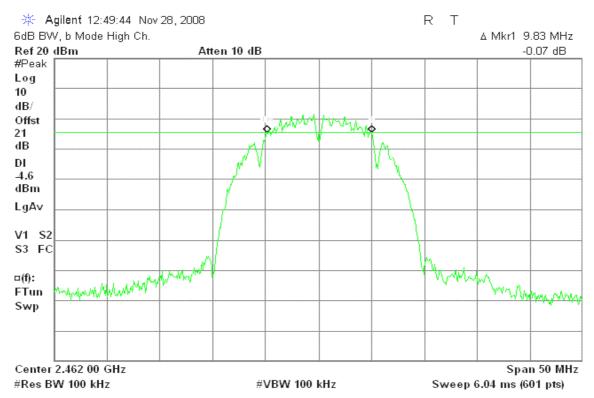


6dB Bandwidth (CH Mid)



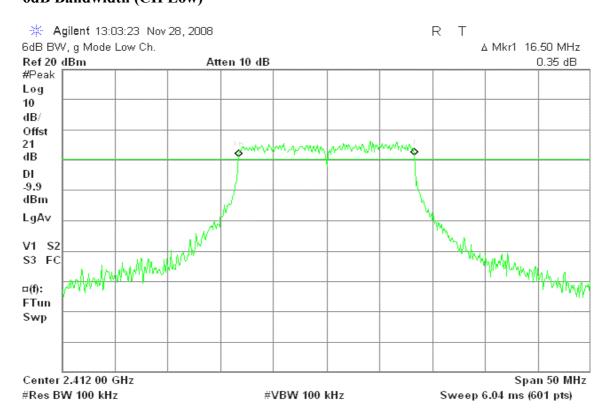
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6dB Bandwidth (CH High)



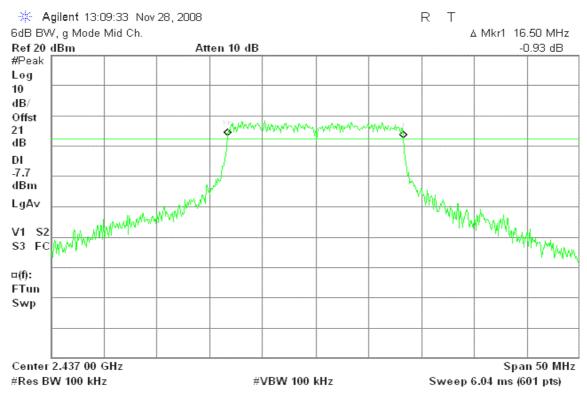
IEEE 802.11g

6dB Bandwidth (CH Low)

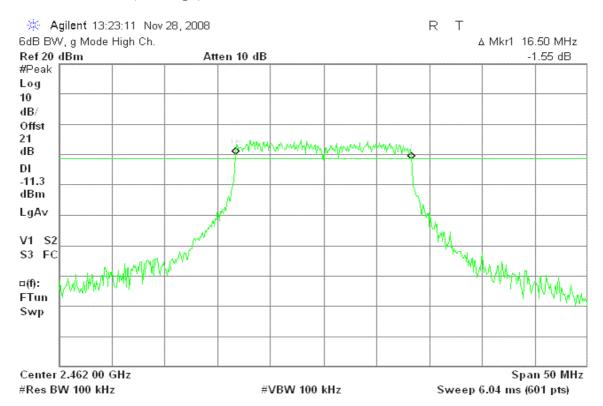


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6dB Bandwidth (CH Mid)



6dB Bandwidth (CH High)



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7.2 PEAK POWER

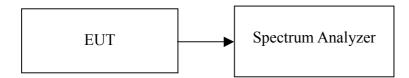
LIMIT

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

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- 1. According to §15.247(b)(3), for systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 Watt.
- 2. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Configuration



TEST PROCEDURE

- 1. Peak power is measured using the spectrum analyzer's internal channel power integration function.
- 2. Power is integrated over a bandwidth greater than or equal to the 99% bandwidth.

TEST RESULTS

No non-compliance noted.

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Test Data

Test mode: IEEE 802.11b

Ì	Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
	Low	2412	18.73	0.0746		PASS
	Mid	2437	20.12	0.1028	1.00	PASS
	High	2462	15.41	0.0348		PASS

Test mode: IEEE 802.11g

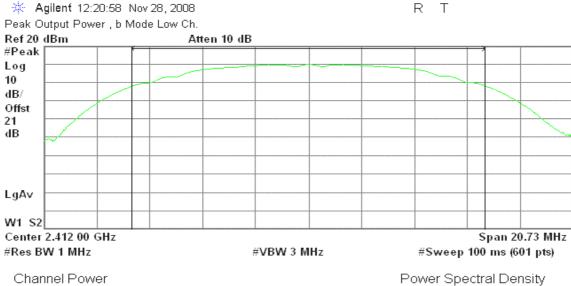
Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	17.87	0.0612		PASS
Mid	2437	20.20	0.1047	1.00	PASS
High	2462	16.62	0.0459		PASS

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Test Plot

IEEE 802.11b

Peak Power (CH Low)

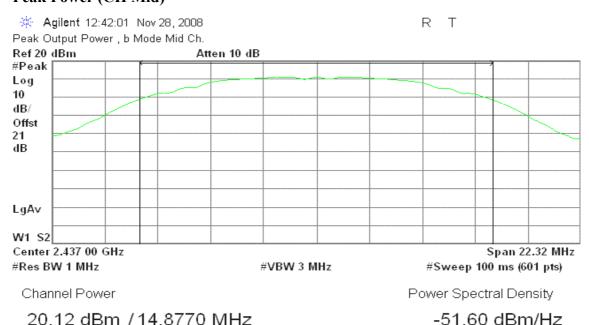


18.73 dBm / 13.8170 MHz

over opecial bensity

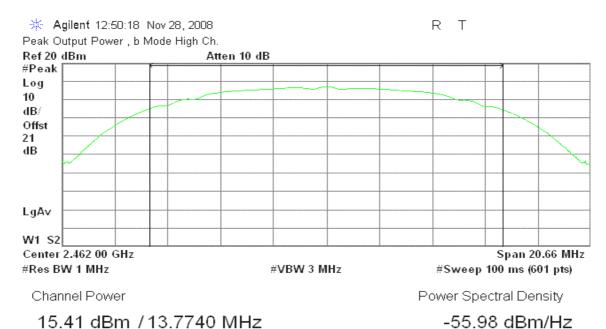
-52.68 dBm/Hz

Peak Power (CH Mid)



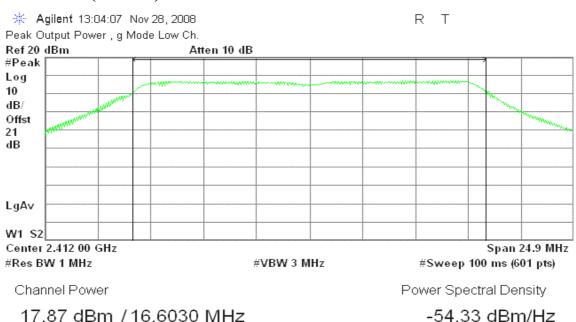
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Peak Power (CH High)



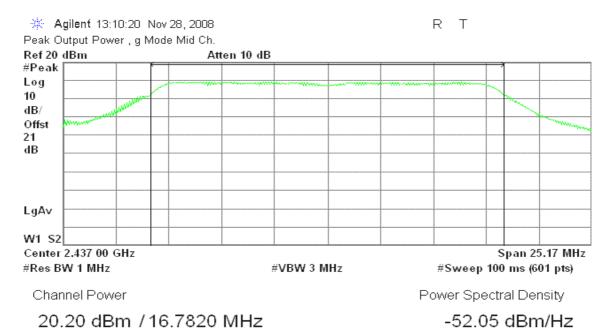
IEEE 802.11g

Peak Power (CH Low)

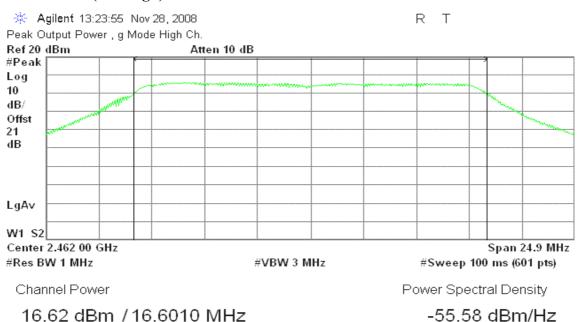


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Peak Power (CH Mid)



Peak Power (CH High)



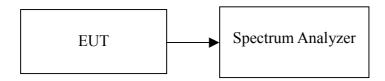
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7.3 AVERAGE POWER

LIMIT

None; for reporting purposes only.

Test Configuration



TEST PROCEDURE

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

TEST RESULTS

No non-compliance noted.

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Test Data

Test mode: IEEE 802.11b mode

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)
Low	2412	15.68	0.0370
Mid	2437	17.11	0.0514
High	2462	12.42	0.0175

Test mode: IEEE 802.11g mode

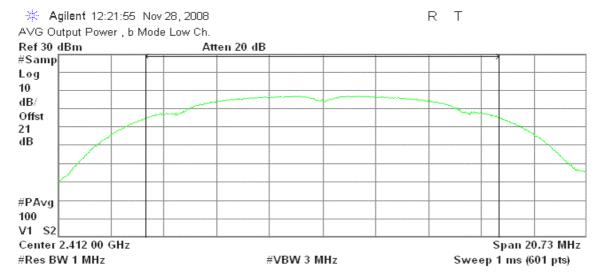
Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)
Low	2412	10.76	0.0119
Mid	2437	12.95	0.0197
High	2462	9.46	0.0088

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Test Plot

IEEE 802.11b

Average Power (CH Low)



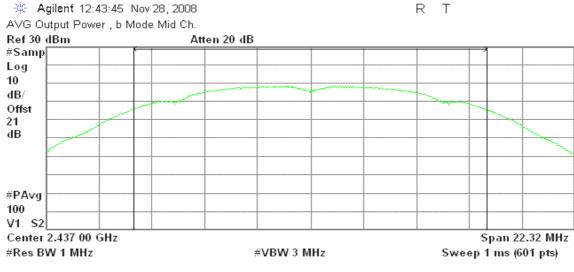
Channel Power

Power Spectral Density

15.68 dBm / 13.8170 MHz

-55.73 dBm/Hz

Average Power (CH Mid)



Channel Power

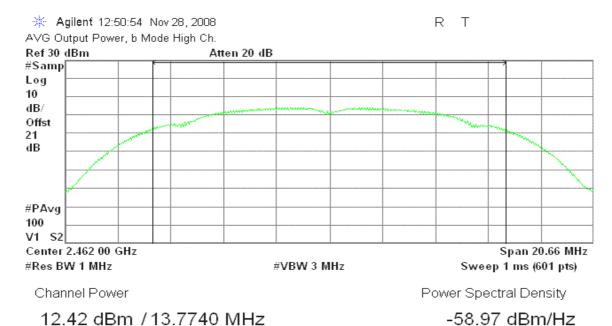
Power Spectral Density

17.11 dBm / 14.8770 MHz

-54.62 dBm/Hz

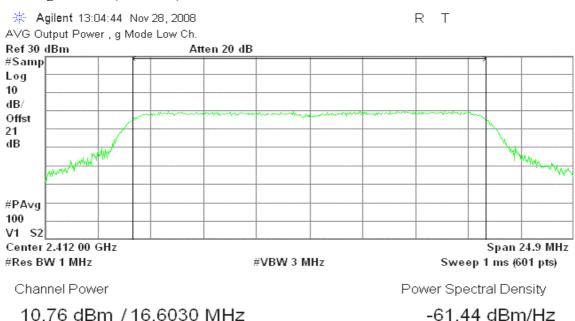
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Average Power (CH High)



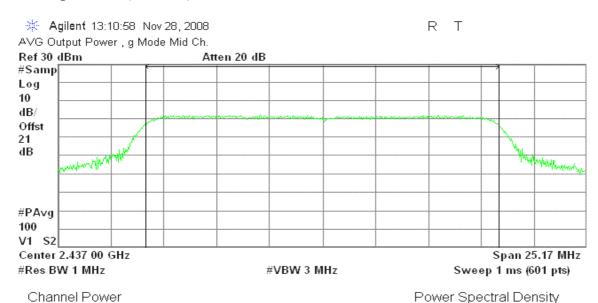
IEEE 802.11g

Average Power (CH Low)



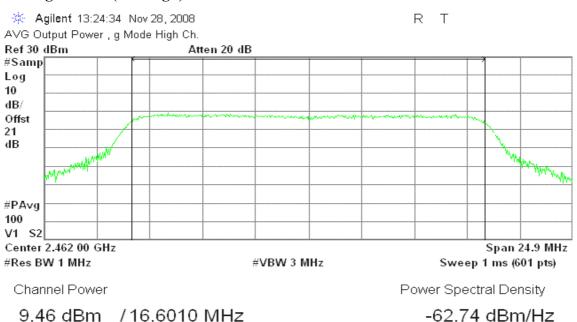
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Average Power (CH Mid)



Average Power (CH High)

12.95 dBm / 16.7820 MHz



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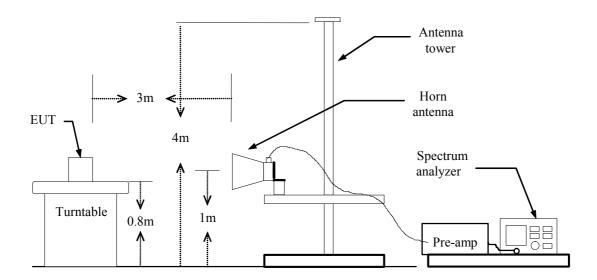
-59.29 dBm/Hz

7.4 BAND EDGES MEASUREMENT

LIMIT

According to §15.247(d), 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 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, provided the transmitter demonstrates compliance with the peak conducted power limits. 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 in 15.209(a) (see Section 15.205(c)).

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.

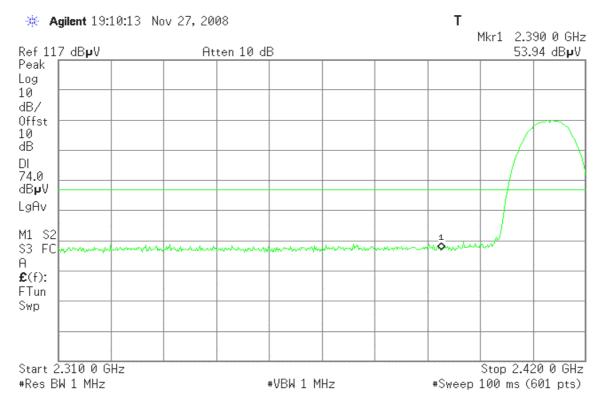
TEST RESULTS

Refer to attach spectrum analyzer data chart.

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Band Edges (IEEE 802.11b / CH Low)

Detector mode: Peak Polarity: Vertical

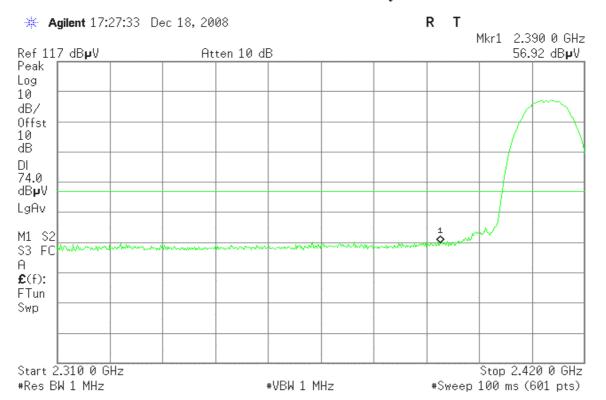


Detector mode: Average Polarity: Vertical

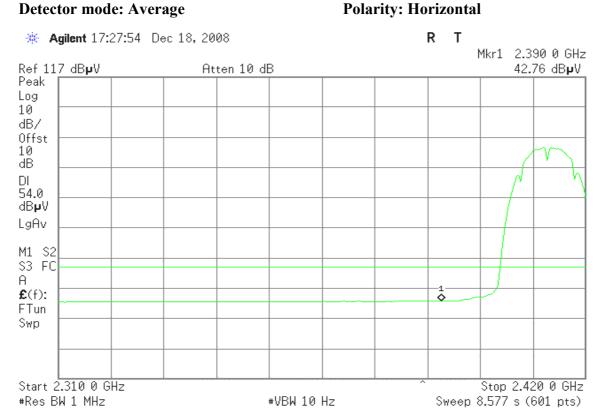


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Detector mode: Peak Polarity: Horizontal



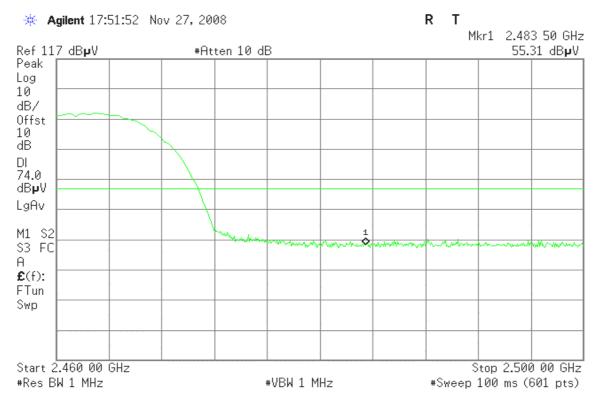
Detector mode: Average



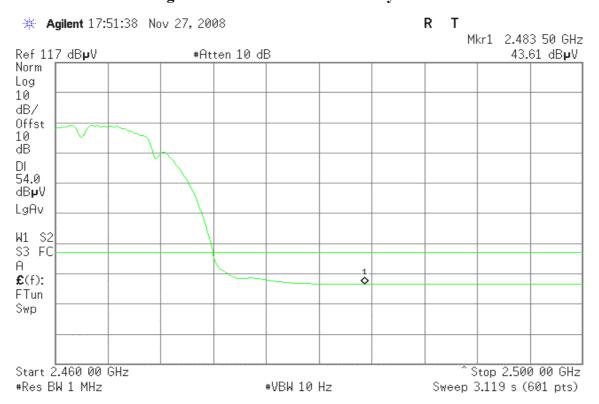
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Band Edges (IEEE 802.11b / CH High)

Detector mode: Peak Polarity: Vertical

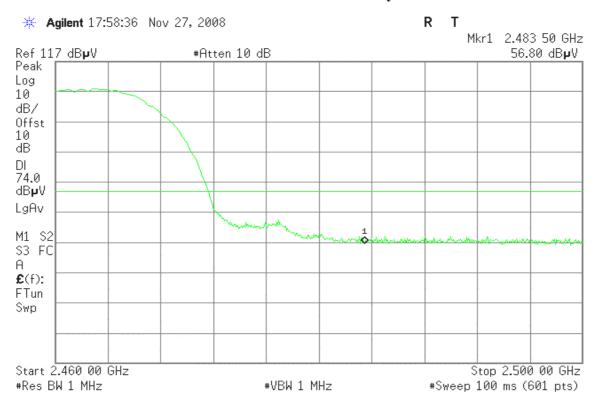


Detector mode: Average Polarity: Vertical



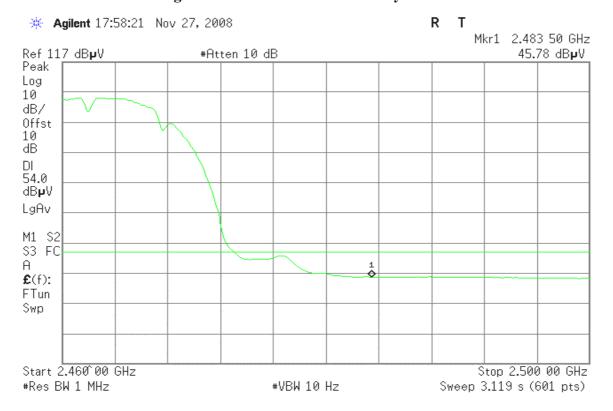
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Detector mode: Peak Polarity: Horizontal



Detector mode: Average

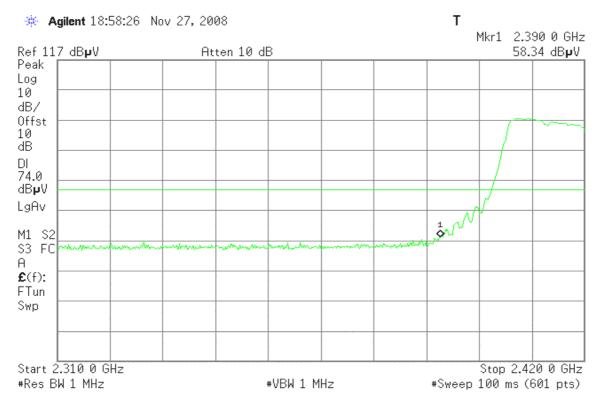
Polarity: Horizontal



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Band Edges (IEEE 802.11g / CH Low)

Detector mode: Peak Polarity: Vertical

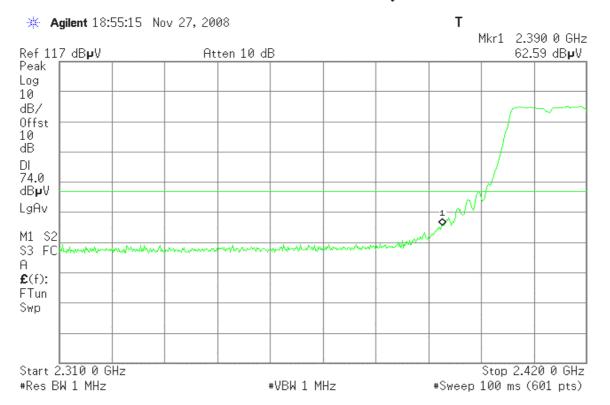


Detector mode: Average Polarity: Vertical



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Detector mode: Peak Polarity: Horizontal



Detector mode: Average

Start 2.310 0 GHz

#Res BW 1 MHz

* Agilent 18:55:34 Nov 27, 2008 Mkr1 2.390 0 GHz Ref 117 dBpV 44.94 dBµV Atten 10 dB Peak Log 10 dB/ Offst 10 dΒ DΙ 54.0 dB₽V LgAv M1 S2 S3 FC Α £(f): FTun Swp

#VBW 10 Hz

Polarity: Horizontal

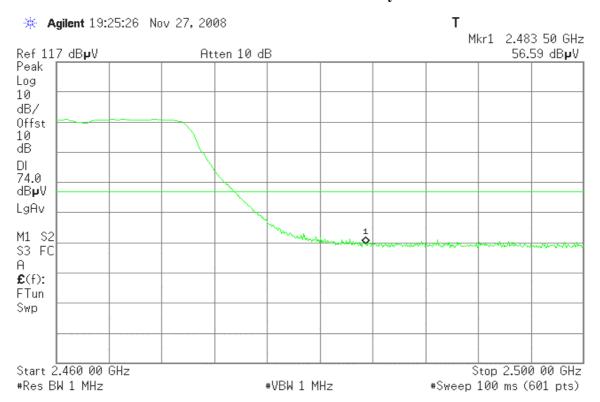
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Stop 2.420 0 GHz

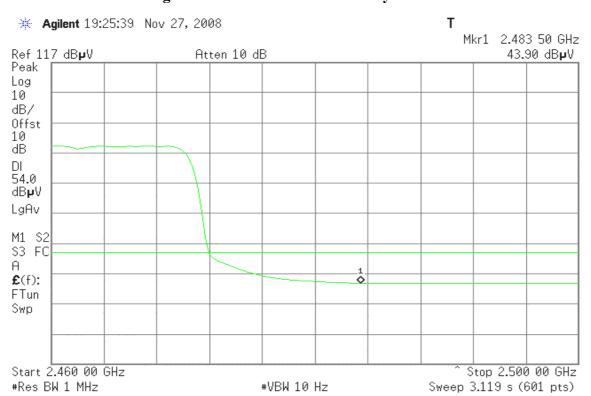
Sweep 8.577 s (601 pts)

Band Edges (IEEE 802.11g / CH High)

Detector mode: Peak Polarity: Vertical

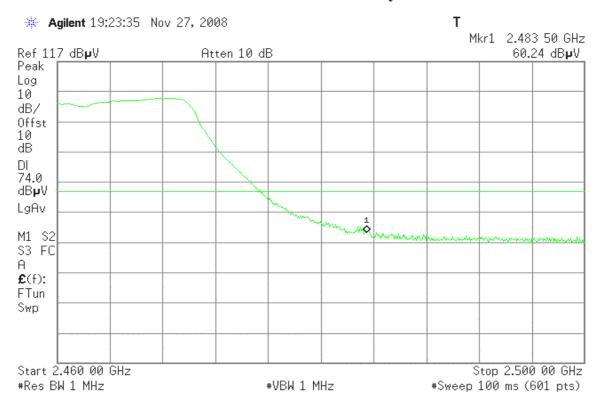


Detector mode: Average Polarity: Vertical



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Detector mode: Peak Polarity: Horizontal



Detector mode: Average

Start 2.460 00 GHz

#Res BW 1 MHz

* Agilent 19:23:19 Nov 27, 2008 Mkr1 2.483 50 GHz Ref 117 dBpV Atten 10 dB 46.87 dB**µ**V Peak Log 10 dB/ Offst 10 dΒ DΙ 54.0 dB₽V LgAv M1 S2 S3 FC Α £(f): FTun Swp

#VBW 10 Hz

Polarity: Horizontal

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Stop 2.500 00 GHz

Sweep 3.119 s (601 pts)

7.5 PEAK POWER SPECTRAL DENSITY

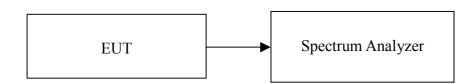
LIMIT

1. According to §15.247(e), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Date of Issue: December 30, 2008

2. According to §15.247(f), the digital modulation operation of the hybrid system, with the frequency hopping turned off, shall comply with the power density requirements of paragraph (d) of this section.

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.

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Test Data

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-8.08		PASS
Mid	2437	-6.07	8.00	PASS
High	2462	-9.18		PASS

Test mode: IEEE 802.11g

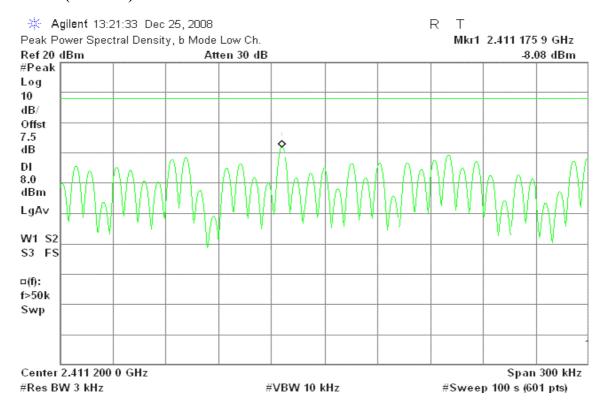
Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-13.88		PASS
Mid	2437	-11.24	8.00	PASS
High	2462	-15.60		PASS

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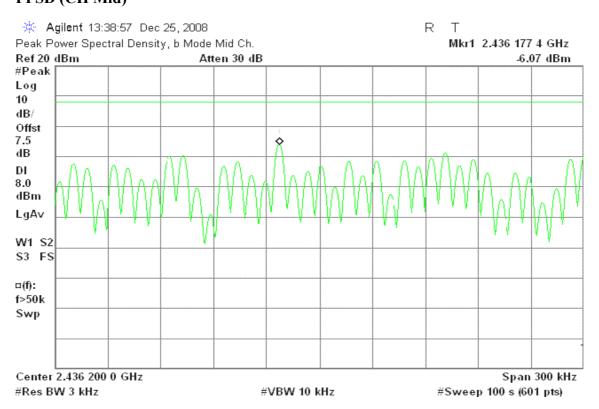
Test Plot

IEEE 802.11b

PPSD (CH Low)

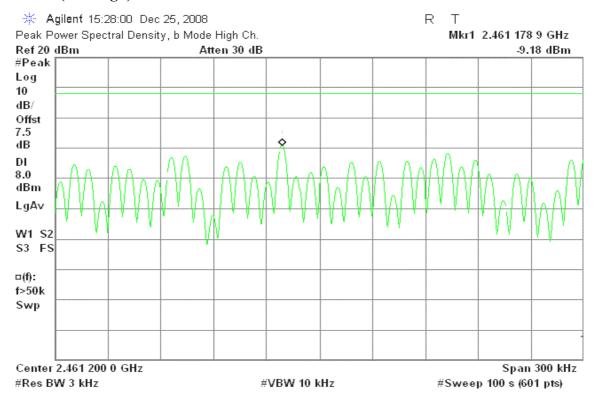


PPSD (CH Mid)



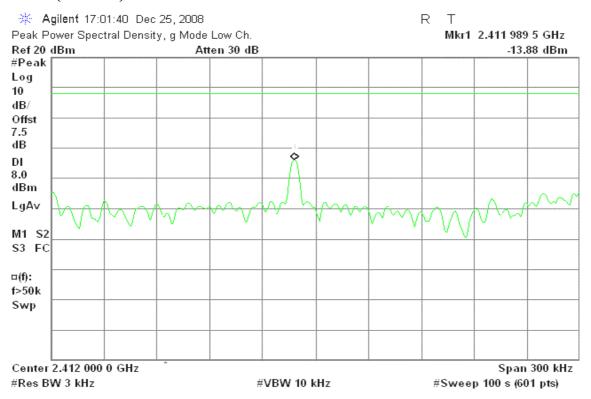
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PPSD (CH High)



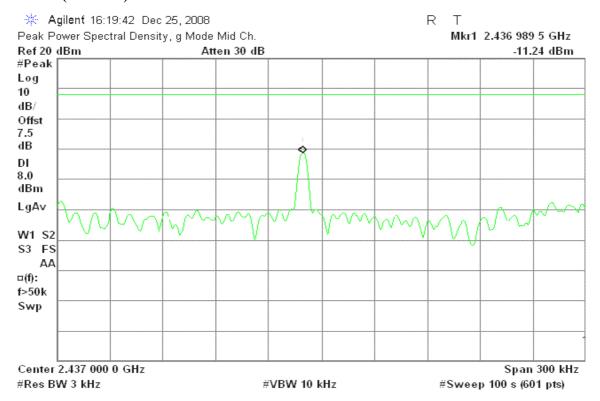
IEEE 802.11g

PPSD (CH Low)

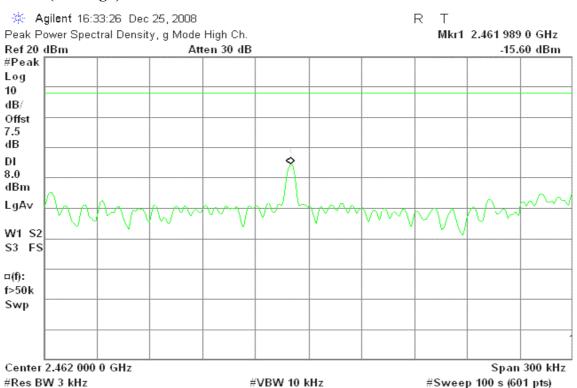


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PPSD (CH Mid)



PPSD (CH High)



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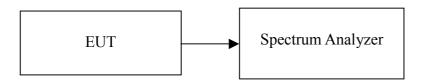
7.6 SPURIOUS EMISSIONS

7.6.1 Conducted Measurement

LIMIT

According to §15.247(d), 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 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, provided the transmitter demonstrates compliance with the peak conducted power limits. 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 in 15.209(a) (see Section 15.205(c)).

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 13GHz to 26GHz range with the transmitter set to the lowest, middle, and highest channels.

TEST RESULTS

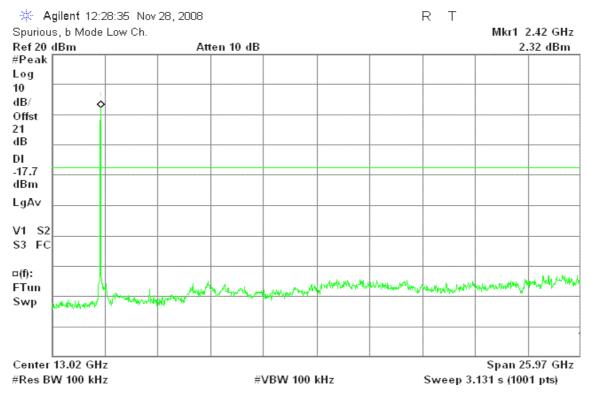
No non-compliance noted.

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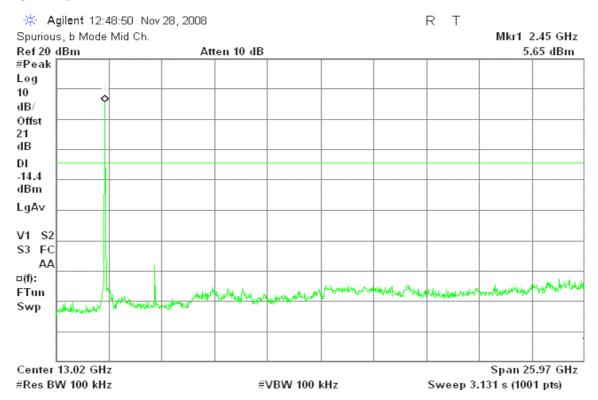
Test Plot

IEEE 802.11b

CH Low

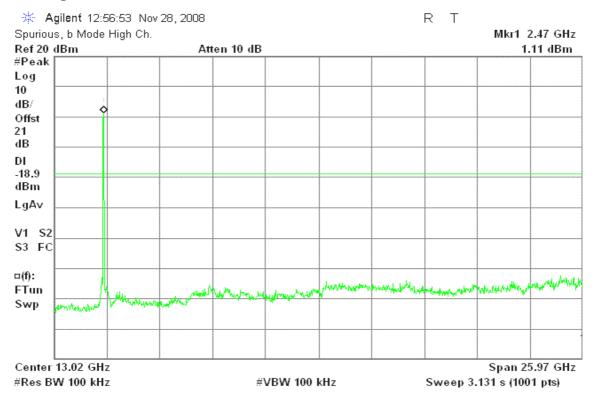


CH Mid



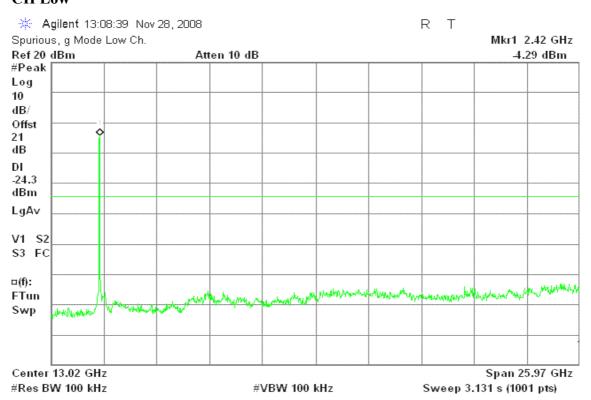
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CH High



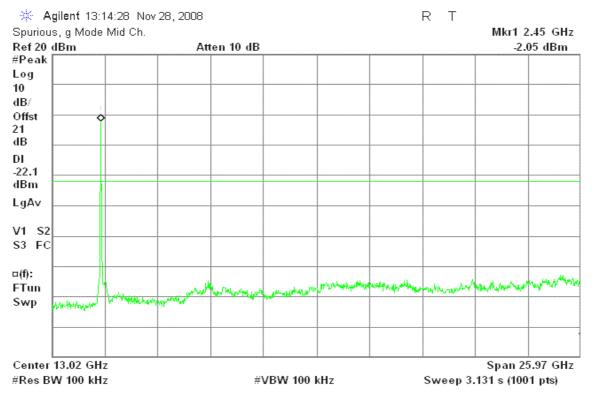
IEEE 802.11g

CH Low

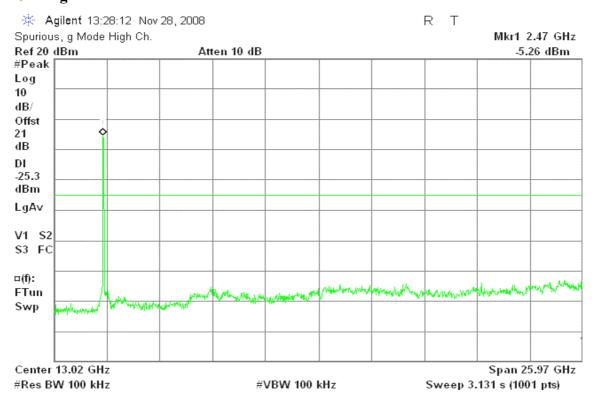


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CH Mid



CH High



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7.6.2 Radiated Emissions

LIMIT

1. According to §15.209(a), 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:

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

Remark: 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.

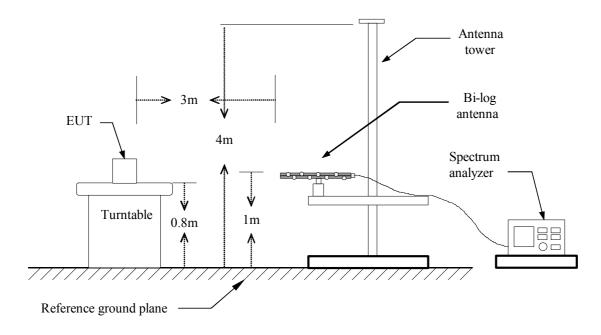
2. In the emission table above, the tighter limit applies at the band edges.

Frequency (MHz)	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

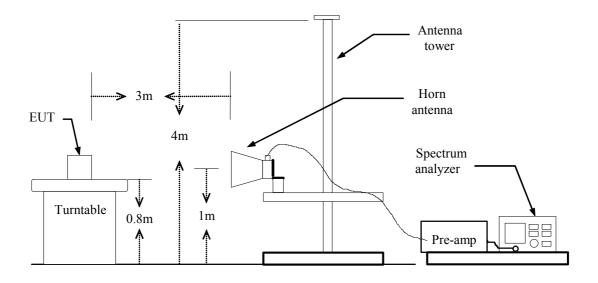
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Test Configuration

Below 1 GHz



Above 1 GHz



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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. Set the spectrum analyzer in the following setting as:

Below 1GHz:

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz:

(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

7. Repeat above procedures until the measurements for all frequencies are complete.

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Below 1 GHz

Operation Mode: Normal Link **Test Date:** December 2, 2008

Temperature: 23°C **Tested by:** Mimic Yang

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
78.50	V	50.86	-15.58	35.28	40.00	-4.72	Peak
128.62	V	46.60	-8.78	37.82	43.50	-5.68	Peak
662.12	V	42.80	-2.21	40.59	46.00	-5.41	Peak
684.75	V	40.21	-2.12	38.09	46.00	-7.91	Peak
726.78	V	40.14	-0.99	39.15	46.00	-6.85	Peak
744.57	V	37.98	-0.28	37.70	46.00	-8.30	Peak
128.62	Н	42.96	-8.78	34.18	43.50	-9.32	Peak
384.05	Н	42.38	-6.61	35.77	46.00	-10.23	Peak
592.60	Н	38.37	-2.55	35.82	46.00	-10.18	Peak
791.45	Н	41.27	0.34	41.61	46.00	-4.39	Peak
812.47	Н	39.35	0.34	39.69	46.00	-6.31	Peak
854.50	Н	40.06	0.14	40.20	46.00	-5.80	Peak

Remark:

- 1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz)
- 2. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
- 3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, 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.
- 4. Margin(dB) = Remark result(dBuV/m) Quasi-peak limit(dBuV/m).

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Above 1 GHz

Operation Mode: IEEE 802.11b / TX / CH Low **Test Date:** November 27, 2008

Temperature: 23°C **Tested by:** Mimic Yang

Humidity: 53 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
1256.67	V	59.69		-8.93	50.75		74.00	54.00	-3.25	Peak
3858.33	V	47.75		0.46	48.21		74.00	54.00	-5.79	Peak
4825.00	V	49.77		0.35	50.12		74.00	54.00	-3.88	Peak
5591.67	V	49.38		0.52	49.90		74.00	54.00	-4.10	Peak
N/A										
1100.00	Н	59.59		-9.30	50.29		74.00	54.00	-3.71	Peak
4125.00	Н	48.61		0.86	49.47		74.00	54.00	-4.53	Peak
4525.00	Н	48.32		1.01	49.33		74.00	54.00	-4.67	Peak
6708.33	Н	49.61		2.28	51.88		74.00	54.00	-2.12	Peak
N/A										

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

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Operation Mode: IEEE 802.11b / TX / CH Mid **Test Date:** November 27, 2008

Temperature:23°CTested by:Mimic YangHumidity:53 % RHPolarity:Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
1046.67	V	60.72		-9.43	51.29		74.00	54.00	-2.71	Peak
4875.00	V	53.84	46.83	0.24	54.08	47.07	74.00	54.00	-6.93	AVG
N/A										
1233.33	Н	59.53		-8.99	50.54		74.00	54.00	-3.46	Peak
N/A										

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

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Operation Mode: IEEE 802.11b / TX / CH High **Test Date:** November 27, 2008

Temperature: 23°C **Tested by:** Mimic Yang **Humidity:** 53 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
1113.33	V	59.88		-9.27	50.60		74.00	54.00	-3.40	Peak
4158.33	V	48.93		0.88	49.81		74.00	54.00	-4.19	Peak
6558.33	V	49.53		1.90	51.43		74.00	54.00	-2.57	Peak
N/A										
1180.00	Н	59.66		-9.12	50.55		74.00	54.00	-3.45	Peak
4016.67	Н	49.05		0.80	49.85		74.00	54.00	-4.15	Peak
5966.67	Н	50.15		1.12	51.27		74.00	54.00	-2.73	Peak
N/A										

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

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Operation Mode: IEEE 802.11g / TX / CH Low **Test Date:** November 27, 2008

Temperature: 23°C **Tested by:** Mimic Yang **Humidity:** 53 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
1193.33	V	60.20		-9.08	51.11		74.00	54.00	-2.89	Peak
3416.67	V	48.82		-0.54	48.28		74.00	54.00	-5.72	Peak
4116.67	V	48.35		0.85	49.20		74.00	54.00	-4.80	Peak
N/A										
1140.00	Н	60.23		-9.21	51.02		74.00	54.00	-2.98	Peak
3883.33	Н	47.74		0.52	48.25		74.00	54.00	-5.75	Peak
4800.00	Н	49.46		0.40	49.86		74.00	54.00	-4.14	Peak
N/A										

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

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Operation Mode: IEEE 802.11g / TX / CH Mid **Test Date:** November 27, 2008

Temperature: 23°C **Tested by:** Mimic Yang **Humidity:** 53 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
1153.33	V	60.48		-9.18	51.30		74.00	54.00	-2.70	Peak
3325.00	V	48.29		-0.71	47.58		74.00	54.00	-6.42	Peak
5716.67	V	49.12		0.72	49.84		74.00	54.00	-4.16	Peak
N/A										
1113.33	Н	59.88		-9.27	50.61		74.00	54.00	-3.39	Peak
5583.33	Н	49.36		0.51	49.87		74.00	54.00	-4.13	Peak
6708.33	Н	49.67		2.28	51.95		74.00	54.00	-2.05	Peak
N/A										

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

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Operation Mode: IEEE 802.11g / TX / CH High **Test Date:** November 27, 2008

Temperature: 23°C **Tested by:** Mimic Yang **Humidity:** 53 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
1096.67	V	59.95		-9.31	50.63		74.00	54.00	-3.37	Peak
4041.67	V	48.73		0.81	49.54		74.00	54.00	-4.46	Peak
4233.33	V	49.44		0.92	50.36		74.00	54.00	-3.64	Peak
N/A										
1186.67	Н	60.17		-9.10	51.07		74.00	54.00	-2.93	Peak
4100.00	Н	49.04		0.84	49.88		74.00	54.00	-4.12	Peak
4916.67	Н	49.42		0.15	49.57		74.00	54.00	-4.43	Peak
N/A										

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. 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.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, 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.
- 6. Margin (dB) = Remark result (dBuV/m) Average limit (dBuV/m).

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7.7 POWERLINE CONDUCTED EMISSIONS

LIMIT

According to $\S15.207(a)$, except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that 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 the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range	Limits (dBµV)					
(MHz)	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				

Test Configuration

See test photographs attached in Appendix II 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.

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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

Operation Mode: Normal Link Test Date: December 15, 2008

Temperature: 22°C **Tested by:** Ryan Chen

Humidity: 45% RH

Frequency (MHz)	QP Reading (dBuV)	AV Reading (dBuV)	Corr. factor (dB)	QP Result (dBuV)	AV Result (dBuV)	QP Limit (dBuV)	AV Limit (dBuV)	QP Margin (dB)	AV Margin (dB)	Note
0.1550	28.90	9.00	0.20	29.10	9.20	65.73	55.73	-36.63	-46.53	L1
0.6350	24.57	13.17	0.03	24.60	13.20	56.00	46.00	-31.40	-32.80	L1
2.5400	29.53	20.33	0.07	29.60	20.40	56.00	46.00	-26.40	-25.60	L1
5.8800	31.81	26.71	0.29	32.10	27.00	60.00	50.00	-27.90	-23.00	L1
10.6250	22.62	16.52	0.58	23.20	17.10	60.00	50.00	-36.80	-32.90	L1
23.0650	27.67	22.97	0.83	28.50	23.80	60.00	50.00	-31.50	-26.20	L1
0.1700	36.52	15.72	0.18	36.70	15.90	64.96	54.96	-28.26	-39.06	L2
0.6400	24.57	11.77	0.03	24.60	11.80	56.00	46.00	-31.40	-34.20	L2
2.5350	29.53	21.23	0.07	29.60	21.30	56.00	46.00	-26.40	-24.70	L2
5.9550	31.51	26.21	0.29	31.80	26.50	60.00	50.00	-28.20	-23.50	L2
12.1550	21.70	15.90	0.60	22.30	16.50	60.00	50.00	-37.70	-33.50	L2
22.9300	24.88	20.18	0.82	25.70	21.00	60.00	50.00	-34.30	-29.00	L2

Remark:

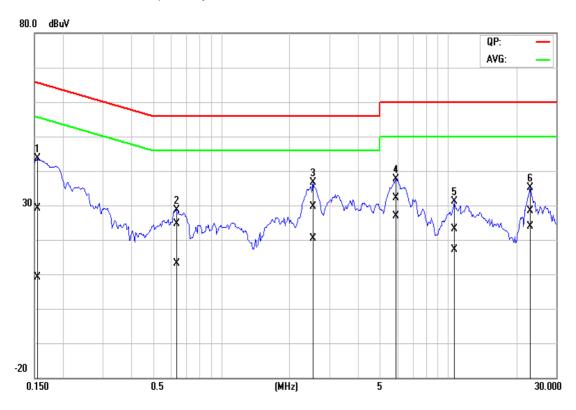
- 1. Measuring frequencies from 0.15 MHz to 30MHz.
- 2. The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Quasi-peak detector and average detector.
- 3. The IF bandwidth of SPA between 0.15MHz to 30MHz was 10kHz; the IF bandwidth of Test Receiver between 0.15MHz to 30MHz was 9kHz;
- 4. $L1 = Line \ One \ (Live \ Line) \ / \ L2 = Line \ Two \ (Neutral \ Line)$

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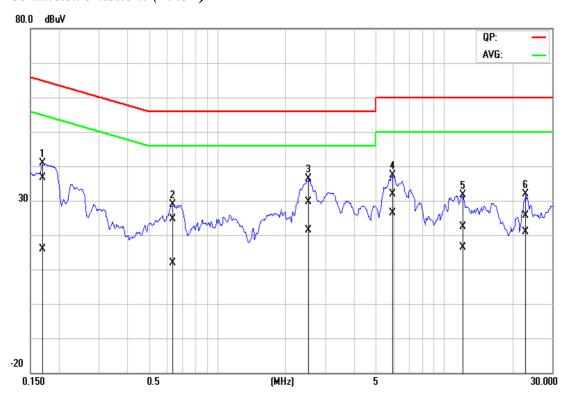
CCC ID: R33C4TSX7EG Date of Issue: December 30, 2008

Test Plots

Conducted emissions (Line 1)



Conducted emissions (Line 2)



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