



**FCC CFR47 PART 15 SUBPART E
INDUSTRY CANADA RSS-210 ISSUE 7
CLASS II PERMISSIVE CHANGE
TEST REPORT**

**FOR
802.11ag/Draft 802.11n WLAN PCI-E Mini Card
Installed inside HP Galileo, Model: HSTNN-I46C**

**MODEL NUMBER: BCM94322MC
FCC ID: QDS-BRCM1036
IC: 4324A-BRCM1036**

**REPORT NUMBER: 08U11813-2
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Prepared for
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NVLAP LAB CODE 200065-0

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--	6-2-08	Initial Issue	Sunny Shih

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS.....	5
2. TEST METHODOLOGY	6
3. FACILITIES AND ACCREDITATION.....	6
4. CALIBRATION AND UNCERTAINTY	6
4.1. MEASURING INSTRUMENT CALIBRATION.....	6
4.2. MEASUREMENT UNCERTAINTY.....	6
5. EQUIPMENT UNDER TEST	7
5.1. DESCRIPTION OF EUT.....	7
5.2. DESCRIPTION OF CLASS II CHANGE.....	7
5.3. DESCRIPTION OF AVAILABLE ANTENNAS.....	7
5.4. SOFTWARE AND FIRMWARE.....	7
5.5. WORST-CASE CONFIGURATION AND MODE	7
5.6. DESCRIPTION OF TEST SETUP.....	8
6. TEST AND MEASUREMENT EQUIPMENT	10
7. RADIATED TEST RESULTS	11
7.1. LIMITS AND PROCEDURE	11
7.2. TRANSMITTER ABOVE 1 GHz IN THE 5.15 – 5.25 GHz BAND	12
7.2.1. 802.11a MODE.....	12
7.2.2. 802.11n HT20 MODE	13
7.2.3. 802.11n HT40 MODE	14
7.3. TRANSMITTER ABOVE 1 GHz IN THE 5.25 – 5.35 GHz BAND	17
7.3.1. 802.11a MODE.....	17
7.3.2. 802.11n HT20 Mode.....	18
7.3.3. 802.11n HT40 MODE	19
7.4. TRANSMITTER ABOVE 1 GHz IN THE 5.47 – 5.725 GHz BAND	22
7.4.1. 802.11a MODE.....	22
7.4.2. 802.11n HT20 MODE	23
7.4.3. 802.11n HT40 MODE	24
7.5. RECEIVER ABOVE 1 GHz IN THE 5.25 – 5.35 GHz BAND	25
7.5.1. 802.11n HT40 MODE	25
7.6. WORST-CASE BELOW 1 GHz.....	26
8. AC POWER LINE CONDUCTED EMISSIONS	28

9. SETUP PHOTOS.....31

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: BROADCOM CORPORATION
190 MATHILDA PLACE
SUNNYVALE, CA 94086, USA

EUT DESCRIPTION: 802.11ag / Draft 802n WLAN PCI-E Mini Card
(Installed Inside HP Galileo, Model: HSTNN-I46C)

MODEL: BCM94322MC

SERIAL NUMBER: 78110P101I (Laptop PC)

DATE TESTED: May 29 - 30, 2008

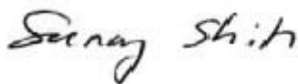
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	Pass
RSS-210 Issue 7 Annex 9 and RSS-GEN Issue 2	Pass

Compliance Certification Services, Inc. (CCS) tested the above equipment in accordance with the requirements set forth in the above standards. All expressions of Pass/Fail in this report are opinions expressed by CCS based on interpretations of the test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by CCS and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by CCS will constitute fraud and shall nullify the document. No part of this report may be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any government agency.

Approved & Released For CCS By:

Tested By:



SUNNY SHIH
EMC SUPERVISOR
COMPLIANCE CERTIFICATION SERVICES

CHIN PANG
EMC ENGINEER
COMPLIANCE CERTIFICATION SERVICES

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2003, FCC CFR 47 Part 2, FCC CFR 47 Part 15, FCC MO&O 06-96, RSS-GEN Issue 2, and RSS-210 Issue 7.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ccsemc.com>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Power Line Conducted Emission	+/- 2.3 dB
Radiated Emission	+/- 3.4 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is an 802.11ag/Draft 802.11n Wireless LAN Transceiver module and manufactured by Broadcom. Model number is BCM94322MC installed inside HP Galileo, Model: HSTNN-I46C

5.2. DESCRIPTION OF CLASS II CHANGE

The major changes filed under this application are:

- Adding portable platform, HP HSTNN-I46C (HP Galileo)

The EUT was tested and certified under CCS project # 07U11529, Therefore, only the Radiated Emission and AC mains line conduction tests are performed.

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The following antenna was added:

Manufacturer	Type	Model	Peak gains w/ cable loss (dBi)		
			5.15 - 5.25 GHz	5.25 - 5.35 GHz	5.47 - 5.725 GHz
WNC	PIFA	137I410B(221) - Main	0.63	0.63	1.36
		137I560W(221) - Aux	1.9	1.9	1.44
Yageo	PIFA	CAN4313671012501B - TX1	2.45	2.45	2.37
		CAN4313671 022501B - TX2	1.78	1.78	2.86

Tested Antennas:

- Used Yageo Main antenna for 5.2 and 5.3 GHz band.
- Used Yageo Aux antenna for 5.6 GHz band.

5.4. SOFTWARE AND FIRMWARE

The EUT driver software installed during testing was Broadcom Internal driver, rev. 4.170.86.0.
The test utility software used during testing was wl_tool, rev. 4.170.RC86.0.

5.5. WORST-CASE CONFIGURATION AND MODE

The worst-case mode/configuration is based on original test report and CCS Test plan.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
Laptop	HP	Galileo 1.0	78110P101I	N/A
AC Adapter	HP	PA-1650-02HC	7Z03609405	N/A

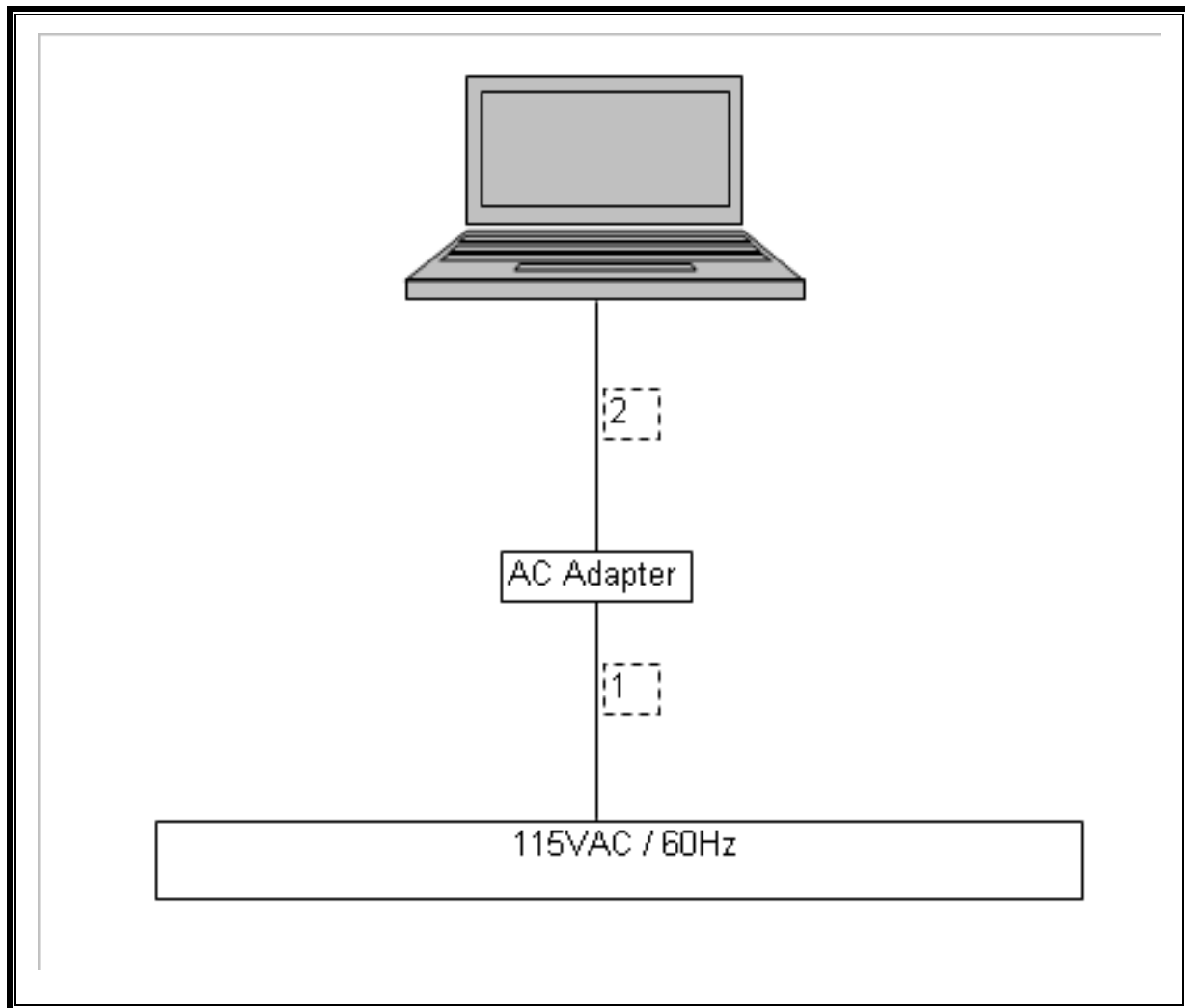
I/O CABLES

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	AC	1	US115V	Unshielded	2.0m	N/A
2	DC	1	DC	Unshielded	2.0m	N/A

TEST SETUP

The EUT is installed in a host laptop computer during the tests. Test software exercised the radio card.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST					
Description	Manufacturer	Model	Asset	Cal Date	Cal Due
Antenna, Horn, 18 GHz	EMCO	3115	C00945	4/15/2007	7/15/2008
Bilog Antenna	Sundt Sciences	JB1	C01016	10/13/2007	10/13/2008
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C00749	8/3/2007	9/27/2008
Preamplifier, 1300 MHz	Agilent / HP	8447D	C01064	5/9/2007	5/9/2008
RF Filter Section, 2.9 GHz	Agilent / HP	85420E	C00958	2/6/2007	6/12/2008
Peak Power Meter	Agilent / HP	E4416A	C00963	2/14/2007	12/2/2008
Peak / Average Power Sensor	Agilent	E9327A	C00964	2/14/2007	12/2/2008
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	10/16/2007	1/27/2009
LISN, 10 kHz ~ 30 MHz	Solar	8012-50-R-24-BNC	N02481	9/15/2006	9/15/2008
LISN, 30 MHz	FCC	LISN-50/250-25-2	N02625	9/15/2006	9/15/2008
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01012	5/2/2006	8/7/2008

7. RADIATED TEST RESULTS

7.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-210 Clause 2.6 (Transmitter)

IC RSS-GEN Clause 6 (Receiver)

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

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

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

The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 5 GHz band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

7.2. TRANSMITTER ABOVE 1 GHz IN THE 5.15 – 5.25 GHz BAND

7.2.1. 802.11a MODE

HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement Compliance Certification Services, Fremont 5m Chamber															
Company: Broadcom Project #: 08U11813 Date: 05/30/2008 Test Engineer: William Zhuang Configuration: EUT alone Mode: 5.2GHz Legacy mode															
Test Equipment:															
Horn 1-18GHz		Pre-amplifier 1-26GHz		Pre-amplifier 26-40GHz		Horn > 18GHz				Limit					
T60; S/N: 2238 @3m		T145 Agilent 3008A005t								FCC 15.209					
Hi Frequency Cables															
2 foot cable		3 foot cable		12 foot cable		HPF		Reject Filter		Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz					
Thanh 177079008				C.5m Chamber		HPF_7.6GHz									
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
Low Ch. 5180MHz															
10.360	3.0	42.4	29.6	37.4	0.7	-34.6	0.0	0.8	46.6	33.8	74	54	-27.4	-20.2	H
15.540	3.0	43.2	30.5	38.0	0.8	-32.3	0.0	0.7	50.4	37.7	74	54	-23.6	-16.3	H
10.360	3.0	43.3	31.0	37.4	0.7	-34.6	0.0	0.8	47.5	35.2	74	54	-26.5	-18.8	V
15.540	3.0	43.1	30.4	38.0	0.8	-32.3	0.0	0.7	50.3	37.6	74	54	-23.7	-16.4	V
Mid Ch. 5200MHz															
10.400	3.0	43.5	31.2	37.4	0.7	-34.6	0.0	0.8	47.7	35.4	74	54	-26.3	-18.6	V
15.600	3.0	43.2	30.5	38.0	0.8	-32.3	0.0	0.7	50.3	37.7	74	54	-23.7	-16.3	V
10.400	3.0	42.3	29.5	37.4	0.7	-34.6	0.0	0.8	46.5	33.7	74	54	-27.5	-20.3	H
15.600	3.0	43.3	30.7	38.0	0.8	-32.3	0.0	0.7	50.5	37.9	74	54	-23.5	-16.1	H
High Ch. 5240MHz															
10.480	3.0	42.6	29.9	37.4	0.7	-34.5	0.0	0.8	46.9	34.2	74	54	-27.1	-19.8	H
15.720	3.0	43.5	30.5	37.9	0.8	-32.3	0.0	0.7	50.7	37.7	74	54	-23.3	-16.3	H
10.480	3.0	43.1	31.1	37.4	0.7	-34.5	0.0	0.8	47.4	35.4	74	54	-26.6	-18.6	V
15.720	3.0	43.4	30.4	37.9	0.8	-32.3	0.0	0.7	50.6	37.6	74	54	-23.4	-16.4	V

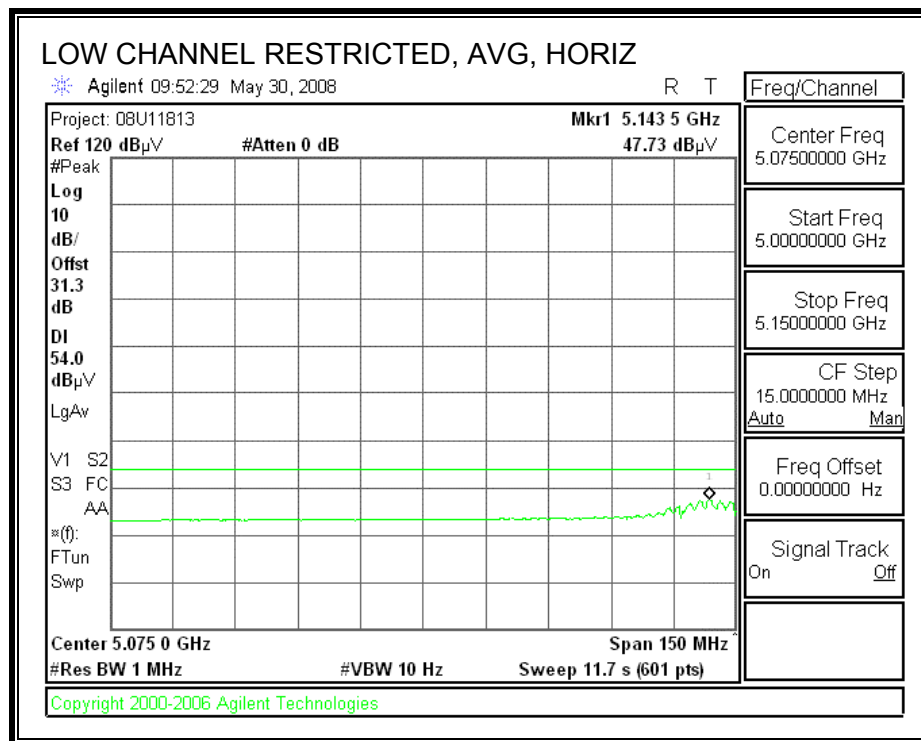
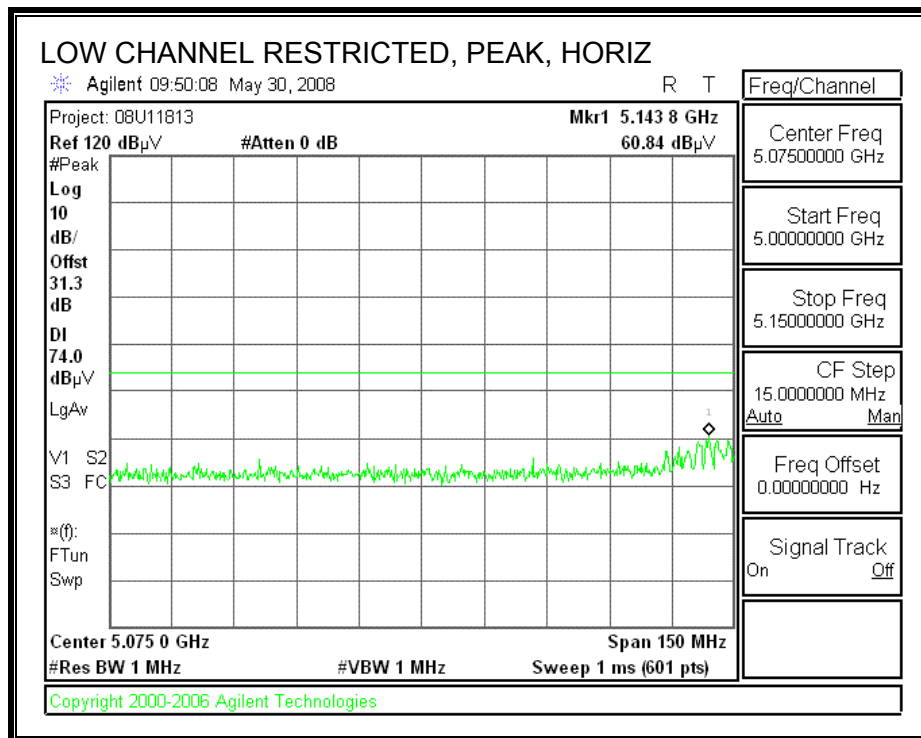
7.2.2. 802.11n HT20 MODE

HARMONICS AND SPURIOUS EMISSIONS

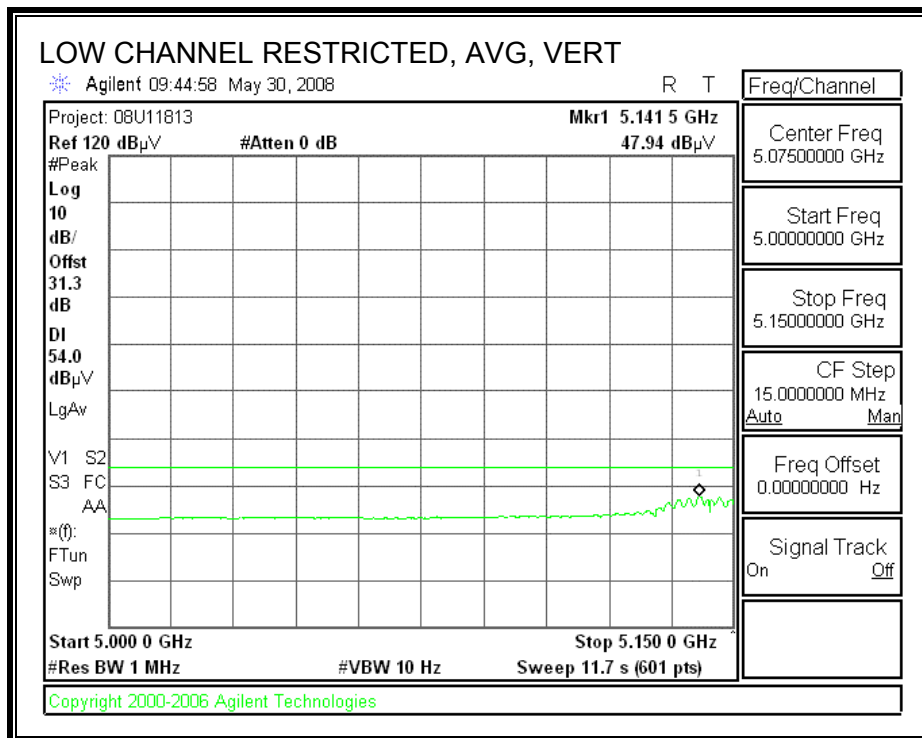
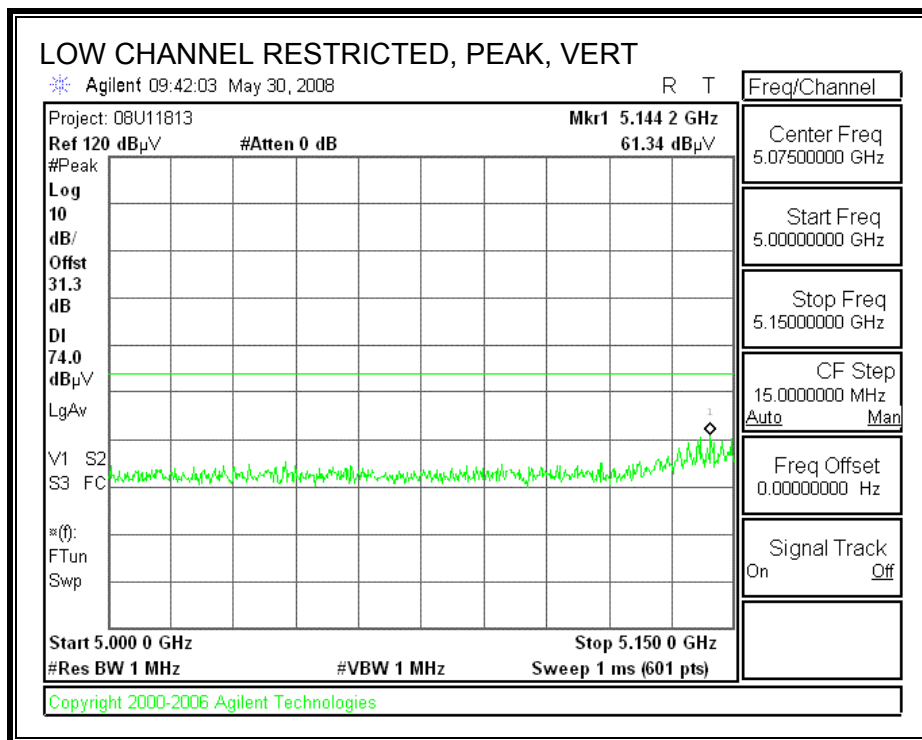
High Frequency Measurement															
Compliance Certification Services, Fremont 5m Chamber															
Company: Broadcom Project #: 08U11813 Date: 05/30/2008 Test Engineer: Can Ming Chung Configuration: EUT alone Mode: 5.2GHz HT20 mode															
Test Equipment:															
Horn 1-18GHz		Pre-amplifier 1-26GHz		Pre-amplifier 26-40GHz		Horn > 18GHz				Limit					
T60; S/N: 2238 @3m		T145 Agilent 3008A0050								FCC 15.209					
Hi Frequency Cables															
2 foot cable		3 foot cable		12 foot cable		HPF		Reject Filter		Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz					
Thanh 177079008				C-5m Chamber		HPF_7.6GHz									
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Ftr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
Low Ch															
10.360	3.0	41.6	29.2	37.4	0.7	-34.6	0.0	0.8	45.8	33.4	74	54	-28.2	-20.6	H
15.540	3.0	42.8	30.4	38.0	0.8	-32.3	0.0	0.7	50.0	37.5	74	54	-24.0	-16.5	H
10.360	3.0	41.7	29.2	37.4	0.7	-34.6	0.0	0.8	45.9	33.4	74	54	-28.1	-20.6	V
15.540	3.0	43.3	30.4	38.0	0.8	-32.3	0.0	0.7	50.5	37.6	74	54	-23.5	-16.4	V
Mid Ch															
10.450	3.0	40.2	29.3	37.4	0.7	-34.5	0.0	0.8	44.5	33.6	74	54	-29.5	-20.4	H
15.763	3.0	42.9	30.4	37.9	0.8	-32.3	0.0	0.7	50.0	37.5	74	54	-24.0	-16.5	H
10.450	3.0	41.8	30.5	37.4	0.7	-34.5	0.0	0.8	46.1	34.8	74	54	-27.9	-19.2	V
15.702	3.0	42.7	31.2	37.9	0.8	-32.3	0.0	0.7	49.8	38.4	74	54	-24.2	-15.6	V
High Ch															
10.507	3.0	40.9	29.7	37.4	0.7	-34.4	0.0	0.8	45.3	34.1	74	54	-28.7	-19.9	H
15.770	3.0	43.0	30.5	37.9	0.8	-32.2	0.0	0.7	50.1	37.6	74	54	-23.9	-16.4	H
10.542	3.0	41.0	30.0	37.4	0.7	-34.4	0.0	0.8	45.4	34.4	74	54	-28.6	-19.6	V
15.756	3.0	43.2	31.5	37.9	0.8	-32.3	0.0	0.7	50.3	38.6	74	54	-23.7	-15.4	V
Rev. 4.12.7															
f	Measurement Frequency			Amp	Preamp Gain			Avg Lim	Average Field Strength Limit						
Dist	Distance to Antenna			D Corr	Distance Correct to 3 meters			Pk Lim	Peak Field Strength Limit						
Read	Analyzer Reading			Avg	Average Field Strength @ 3 m			Avg Mar	Margin vs. Average Limit						
AF	Antenna Factor			Peak	Calculated Peak Field Strength			Pk Mar	Margin vs. Peak Limit						
CL	Cable Loss			HPF	High Pass Filter										

7.2.3. 802.11n HT40 MODE

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement																
Compliance Certification Services, Fremont 5m Chamber																
Company: Broadcom																
Project #: 08U11813																
Date: 05/30/2008																
Test Engineer: Can Ming Chung																
Configuration: EUT alone																
Mode: 5.2GHz HT40 mode																
Test Equipment:																
Horn 1-18GHz			Pre-amplifier 1-26GHz			Pre-amplifier 26-40GHz			Horn > 18GHz			Limit				
T60; S/N: 2238 @3m			T145 Agilent 3008A0050									FCC 15.209				
Hi Frequency Cables																
2 foot cable			3 foot cable			12 foot cable			HPF			Reject Filter		Peak Measurements		
Thanh 177079008						C-5m Chamber			HPF_7.6GHz					RBW=VBW=1MHz		
Average Measurements																
RBW=1MHz ; VBW=10Hz																
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Ftr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)	
Low Ch.																
10.360	3.0	43.2	31.1	37.4	0.7	-34.6	0.0	0.8	47.4	35.3	74	54	-26.6	-18.7	V	
15.560	3.0	42.6	31.6	38.0	0.8	-32.3	0.0	0.7	49.8	38.7	74	54	-24.2	-15.3	V	
10.370	3.0	45.8	32.5	37.4	0.7	-34.6	0.0	0.8	50.0	36.7	74	54	-24.0	-17.3	H	
15.540	3.0	46.6	33.4	38.0	0.8	-32.3	0.0	0.7	53.7	40.6	74	54	-20.3	-13.4	H	
Mid Ch.																
10.600	3.0	41.2	30.6	37.4	0.7	-34.3	0.0	0.8	45.7	35.1	74	54	-28.3	-18.9	V	
15.690	3.0	42.4	31.7	37.9	0.8	-32.3	0.0	0.7	49.6	38.8	74	54	-24.4	-15.2	V	
10.600	3.0	42.0	29.8	37.4	0.7	-34.3	0.0	0.8	46.5	34.3	74	54	-27.5	-19.7	H	
15.690	3.0	42.9	31.4	37.9	0.8	-32.3	0.0	0.7	50.0	38.5	74	54	-24.0	-15.5	H	

7.3. TRANSMITTER ABOVE 1 GHz IN THE 5.25 – 5.35 GHz BAND

7.3.1. 802.11a MODE

HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement																
Compliance Certification Services, Fremont 5m Chamber																
Company: Broadcom Project #: 08U11813 Date: 05/30/2008 Test Engineer: William Zhuang Configuration: EUT alone Mode: 5.3GHz Legacy mode																
Test Equipment:																
Horn 1-18GHz			Pre-amplifier 1-26GHz			Pre-amplifier 26-40GHz			Horn > 18GHz			Limit				
T60; S/N: 2238 @3m			T145 Agilent 3008A0056									FCC 15.209				
Hi Frequency Cables																
2 foot cable			3 foot cable			12 foot cable			HPF			Reject Filter			Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz	
Thanh 177079008						C-5m Chamber			HPF_7.6GHz							

f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
Low Ch. 5260MHz															
10.520	3.0	42.1	29.8	37.4	0.7	-34.4	0.0	0.8	46.4	34.2	74	54	-27.6	-19.8	V
15.780	3.0	43.6	30.6	37.9	0.8	-32.2	0.0	0.7	50.8	37.8	74	54	-23.2	-16.2	V
10.520	3.0	40.2	28.9	37.4	0.7	-34.4	0.0	0.8	44.5	33.3	74	54	-29.5	-20.7	H
15.780	3.0	43.1	30.7	37.9	0.8	-32.2	0.0	0.7	50.3	37.9	74	54	-23.7	-16.1	H
Mid Ch. 5300MHz															
10.600	3.0	44.2	29.7	37.4	0.7	-34.3	0.0	0.8	48.7	34.2	74	54	-25.3	-19.8	V
15.900	3.0	43.5	30.0	37.9	0.8	-32.2	0.0	0.7	50.6	37.2	74	54	-23.4	-16.8	V
10.600	3.0	43.4	30.4	37.4	0.7	-34.3	0.0	0.8	47.9	34.9	74	54	-26.1	-19.1	H
15.900	3.0	42.6	30.0	37.9	0.8	-32.2	0.0	0.7	49.8	37.1	74	54	-24.2	-16.9	H
High Ch. 5320MHz															
10.640	3.0	44.6	30.8	37.3	0.7	-34.2	0.0	0.8	49.1	35.3	74	54	-24.9	-18.7	V
15.960	3.0	42.5	30.2	37.8	0.8	-32.2	0.0	0.7	49.6	37.4	74	54	-24.4	-16.6	V
10.640	3.0	42.8	29.6	37.3	0.7	-34.2	0.0	0.8	47.3	34.1	74	54	-26.7	-19.9	V
15.960	3.0	43.0	30.1	37.8	0.8	-32.2	0.0	0.7	50.1	37.2	74	54	-23.9	-16.8	V

7.3.2. 802.11n HT20 Mode

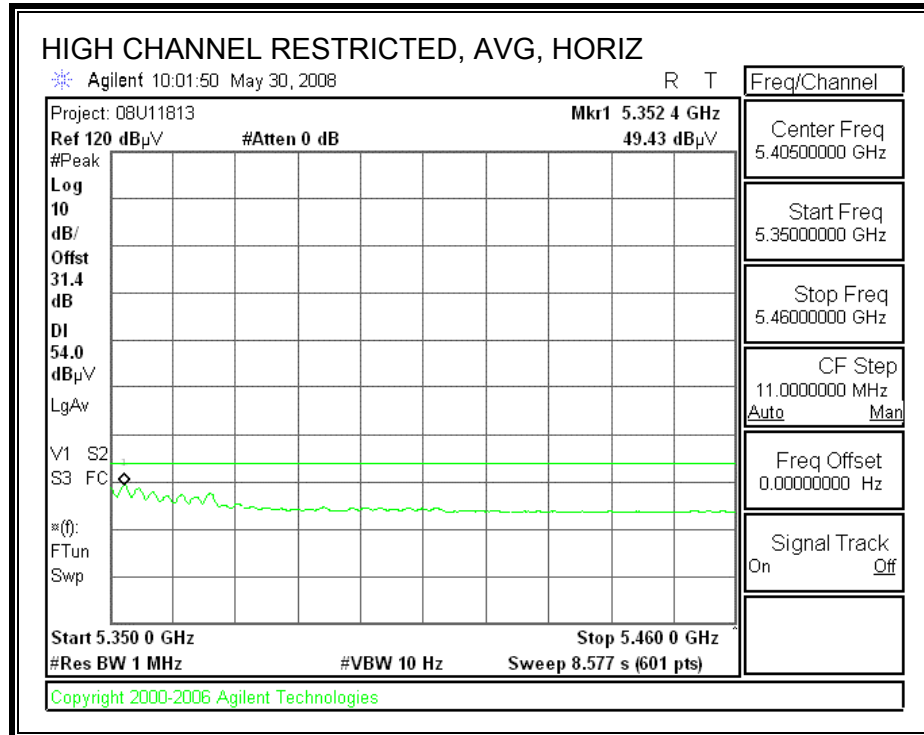
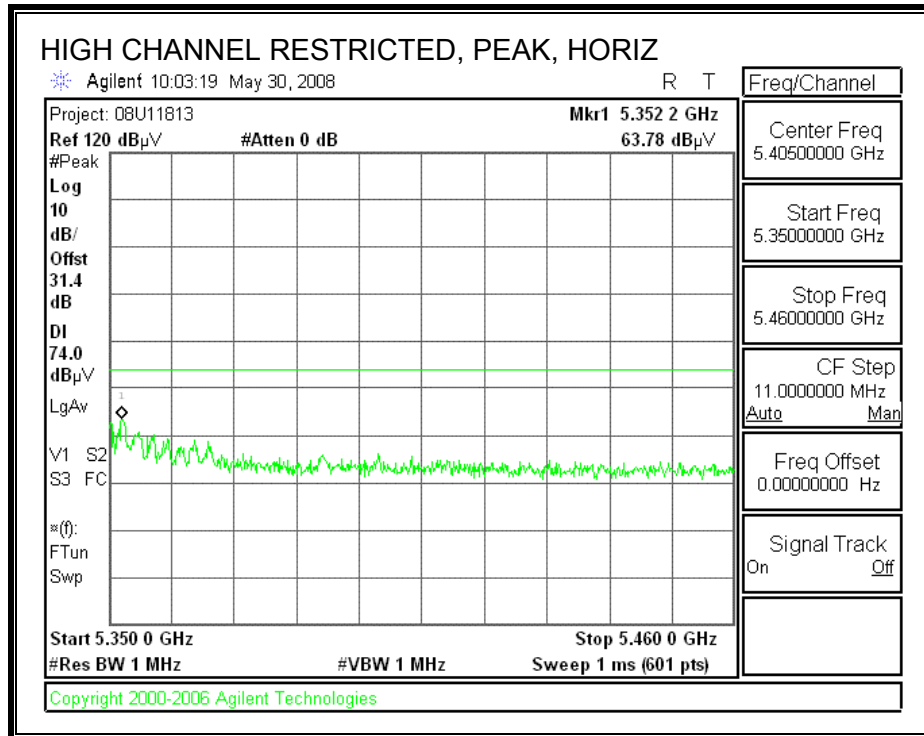
HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement															
Compliance Certification Services, Fremont 5m Chamber															
Company: Broadcom Project #: 08U11813 Date: 05/30/2008 Test Engineer: William Zhuang Configuration: EUT alone Mode: 5.3GHz HT20 mode															
Test Equipment:															
Horn 1-18GHz		Pre-amplifier 1-26GHz		Pre-amplifier 26-40GHz		Horn > 18GHz				Limit					
T60; S/N: 2238 @3m		T145 Agilent 3008A0050								FCC 15.209					
Hi Frequency Cables															
2 foot cable		3 foot cable		12 foot cable		HPF		Reject Filter		Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz, VBW=10Hz					
Thanh 177079008				C-5m Chamber		HPF_7.6GHz									

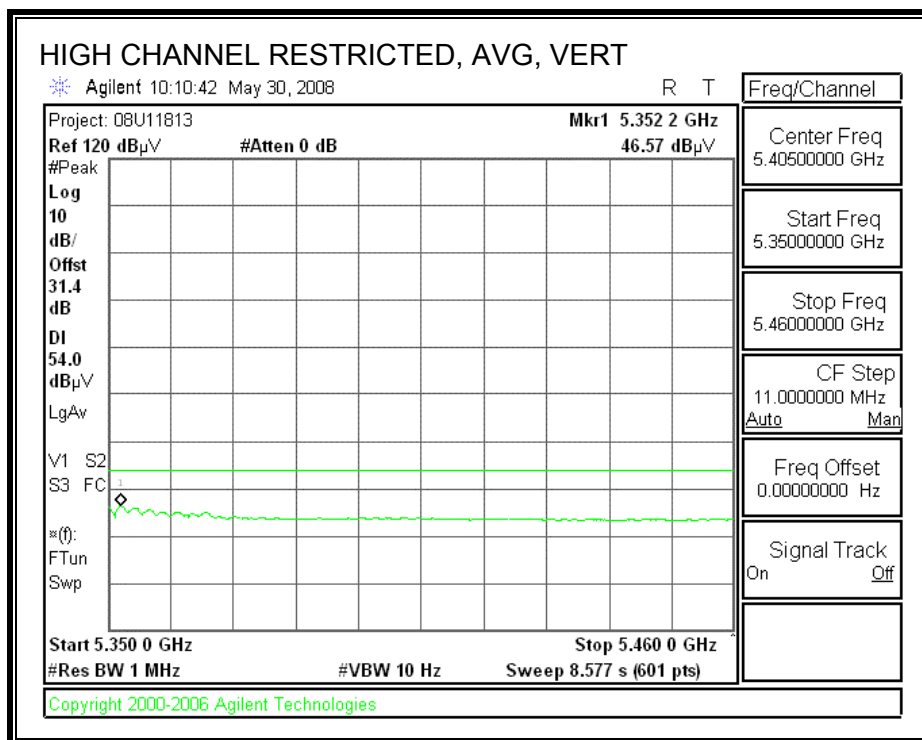
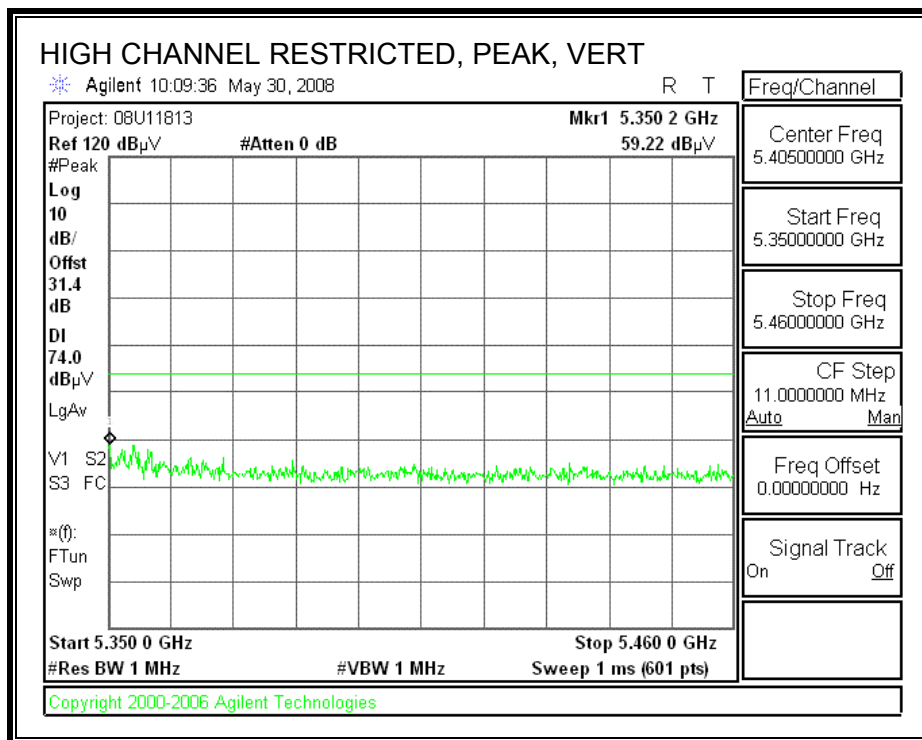
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
Low Ch. 5260MHz															
10.520	3.0	41.9	29.9	37.4	0.7	-34.4	0.0	0.8	46.3	34.3	74	54	-27.7	-19.7	V
15.780	3.0	43.5	30.7	37.9	0.8	-32.2	0.0	0.7	50.7	37.8	74	54	-23.3	-16.2	V
10.520	3.0	41.2	29.2	37.4	0.7	-34.4	0.0	0.8	45.5	33.6	74	54	-28.5	-20.4	H
15.780	3.0	43.2	30.8	37.9	0.8	-32.2	0.0	0.7	50.4	38.0	74	54	-23.6	-16.0	H
Mid Ch. 5300MHz															
10.600	3.0	44.3	29.8	37.4	0.7	-34.3	0.0	0.8	48.8	34.2	74	54	-25.2	-19.8	V
15.900	3.0	43.5	30.1	37.9	0.8	-32.2	0.0	0.7	50.6	37.2	74	54	-23.4	-16.8	V
10.600	3.0	43.5	30.5	37.4	0.7	-34.3	0.0	0.8	48.0	35.0	74	54	-26.0	-19.0	H
15.900	3.0	42.7	29.9	37.9	0.8	-32.2	0.0	0.7	49.8	37.1	74	54	-24.2	-16.9	H
High Ch. 5320MHz															
10.640	3.0	44.0	30.9	37.3	0.7	-34.2	0.0	0.8	48.5	35.5	74	54	-25.5	-18.5	V
15.960	3.0	43.1	30.3	37.8	0.8	-32.2	0.0	0.7	50.2	37.4	74	54	-23.8	-16.6	V
10.640	3.0	42.9	30.1	37.3	0.7	-34.2	0.0	0.8	47.4	34.7	74	54	-26.6	-19.3	V
15.960	3.0	43.1	30.2	37.8	0.8	-32.2	0.0	0.7	50.2	37.3	74	54	-23.8	-16.7	V

7.3.3. 802.11n HT40 MODE

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement															
Compliance Certification Services, Fremont 5m Chamber															
Company: Broadcom Project #: 08U11813 Date: 05/30/2008 Test Engineer: Can Ming Chung Configuration: EUT alone Mode: 5.3GHz HT40 mode															
Test Equipment:															
Horn 1-18GHz		Pre-amplifer 1-26GHz		Pre-amplifer 26-40GHz		Horn > 18GHz		Limit							
T60; S/N: 2238 @3m		T145 Agilent 3008A0050						FCC 15.209							
Hi Frequency Cables															
2 foot cable		3 foot cable		12 foot cable		HPF		Reject Filter		Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz, VBW=10Hz					
Thanh 177079008				C-5m Chamber		HPF_7.6GHz									
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fldr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
Low Ch.															
10.539	3.0	42.3	31.0	37.4	0.7	-34.4	0.0	0.8	46.7	35.4	74	54	-27.3	-18.6	V
15.804	3.0	45.0	32.7	37.9	0.8	-32.2	0.0	0.7	52.1	39.8	74	54	-21.9	-14.2	V
10.541	3.0	40.1	29.6	37.4	0.7	-34.4	0.0	0.8	44.5	34.0	74	54	-29.5	-20.0	H
15.840	3.0	43.9	31.1	37.9	0.8	-32.2	0.0	0.7	51.0	38.2	74	54	-23.0	-15.8	H
High Ch.															
10.614	3.0	42.9	31.6	37.4	0.7	-34.3	0.0	0.8	47.4	36.1	74	54	-26.6	-17.9	V
15.930	3.0	44.3	32.0	37.8	0.8	-32.2	0.0	0.7	51.4	39.1	74	54	-22.6	-14.9	V
10.619	3.0	42.8	31.6	37.4	0.7	-34.3	0.0	0.8	47.3	36.2	74	54	-26.7	-17.8	V
15.910	3.0	44.2	31.7	37.9	0.8	-32.2	0.0	0.7	51.4	38.8	74	54	-22.6	-15.2	V
Rev. 4.12.7															
f	Measurement Frequency		Amp	Preamp Gain		Avg Lim	Average Field Strength Limit								
Dist	Distance to Antenna		D Corr	Distance Correct to 3 meters		Pk Lim	Peak Field Strength Limit								
Read	Analyzer Reading		Avg	Average Field Strength @ 3 m		Avg Mar	Margin vs. Average Limit								
AF	Antenna Factor		Peak	Calculated Peak Field Strength		Pk Mar	Margin vs. Peak Limit								
CL	Cable Loss		HPF	High Pass Filter											

7.4. TRANSMITTER ABOVE 1 GHz IN THE 5.47 – 5.725 GHz BAND

7.4.1. 802.11a MODE

HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement																
Compliance Certification Services, Fremont 5m Chamber																
Company: Broadcom Project #: 08U11813 Date: 05/30/2008 Test Engineer: Can Ming Chung Configuration: EUT alone Mode: 5.5GHz Legacy mode																
Test Equipment:																
Horn 1-18GHz T60; S/N: 2238 @3m			Pre-amplifier 1-26GHz T145 Agilent 3008A0050			Pre-amplifier 26-40GHz			Horn > 18GHz			Limit FCC 15.209				
Hi Frequency Cables 2 foot cable Thanh 177079008 3 foot cable 12 foot cable C-5m Chamber HPF HPF_7.6GHz Reject Filter Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz																
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)	
Low Ch.																
10.990	3.0	42.7	29.7	37.3	0.7	-33.8	0.0	0.7	47.7	34.6	74	54	-26.3	-19.4	V	
16.491	3.0	42.8	29.7	39.3	0.8	-32.1	0.0	0.7	51.5	38.3	74	54	-22.5	-15.7	V	
11.003	3.0	42.2	30.2	37.3	0.7	-33.8	0.0	0.7	47.2	35.2	74	54	-26.8	-18.8	H	
16.502	3.0	42.6	30.8	39.3	0.8	-32.1	0.0	0.7	51.3	39.5	74	54	-22.7	-14.5	H	
Mid Ch																
11.396	3.0	40.6	29.8	37.4	0.7	-33.2	0.0	0.7	46.1	35.4	74	54	-27.9	-18.6	V	
16.900	3.0	41.3	29.1	40.5	0.8	-32.0	0.0	0.7	51.3	39.1	74	54	-22.7	-14.9	V	
11.408	3.0	41.8	30.0	37.4	0.7	-33.2	0.0	0.7	47.3	35.6	74	54	-26.7	-18.4	H	
17.105	3.0	41.6	30.4	41.2	0.8	-32.0	0.0	0.7	52.3	41.0	74	54	-21.7	-13.0	H	
High Ch																
11.570	3.0	42.5	29.3	37.4	0.7	-33.0	0.0	0.7	48.2	35.1	74	54	-25.8	-18.9	V	
17.185	3.0	42.7	30.6	41.5	0.8	-32.0	0.0	0.7	53.6	41.5	74	54	-20.4	-12.5	V	
11.564	3.0	42.5	30.5	37.4	0.7	-33.0	0.0	0.7	48.3	36.3	74	54	-25.7	-17.7	H	
17.350	3.0	42.4	30.3	42.1	0.8	-32.0	0.0	0.6	54.0	41.9	74	54	-20.0	-12.1	H	
Rev. 412.7																
f	Measurement Frequency			Amp	Preamp Gain			Avg Lim	Average Field Strength Limit							
Dist	Distance to Antenna			D Corr	Distance Correct to 3 meters			Pk Lim	Peak Field Strength Limit							
Read	Analyzer Reading			Avg	Average Field Strength @ 3 m			Avg Mar	Margin vs. Average Limit							
AF	Antenna Factor			Peak	Calculated Peak Field Strength			Pk Mar	Margin vs. Peak Limit							
CL	Cable Loss			HPF	High Pass Filter											

7.4.2. 802.11n HT20 MODE

HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement																	
Compliance Certification Services, Fremont 5m Chamber																	
Company: Broadcom																	
Project #: 08U11813																	
Date: 05/30/2008																	
Test Engineer: Can Ming Chung																	
Configuration: EUT alone																	
Mode: 5.5GHz HT20 mode																	
Test Equipment:																	
Horn 1-18GHz			Pre-amplifier 1-26GHz			Pre-amplifier 26-40GHz			Horn > 18GHz			Limit					
T60; S/N: 2238 @3m			T145 Agilent 3008A0050									FCC 15.209					
Hi Frequency Cables																	
2 foot cable			3 foot cable			12 foot cable			HPF			Reject Filter			Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz; VBW=10Hz		
Thanh 177079008						C-5m Chamber			HPF_7.6GHz								
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fldr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)		
Low Ch.																	
11.000	3.0	46.5	31.9	37.3	0.7	-33.8	0.0	0.7	51.5	36.9	74	54	-22.5	-17.1	V		
16.497	3.0	45.7	33.2	39.3	0.8	-32.1	0.0	0.7	54.4	41.9	74	54	-19.6	-12.1	V		
11.009	3.0	45.3	31.2	37.3	0.7	-33.7	0.0	0.7	50.3	36.2	74	54	-23.7	-17.8	H		
16.498	3.0	46.3	33.1	39.3	0.8	-32.1	0.0	0.7	55.0	41.8	74	54	-19.0	-12.2	H		
Mid Ch.																	
11.193	3.0	48.8	36.6	37.3	0.7	-33.5	0.0	0.7	54.1	41.8	74	54	-19.9	-12.2	V		
16.180	3.0	43.4	32.6	38.4	0.8	-32.2	0.0	0.7	51.1	40.2	74	54	-22.9	-13.8	V		
11.197	3.0	43.1	31.3	37.3	0.7	-33.5	0.0	0.7	48.4	36.5	74	54	-25.6	-17.5	H		
16.791	3.0	42.8	32.1	40.2	0.8	-32.1	0.0	0.7	52.4	41.7	74	54	-21.6	-12.3	H		
High Ch.																	
11.405	3.0	46.1	34.3	37.4	0.7	-33.2	0.0	0.7	51.6	39.9	74	54	-22.4	-14.1	V		
17.097	3.0	43.2	31.7	41.2	0.8	-32.0	0.0	0.7	53.9	42.4	74	54	-20.1	-11.6	V		
11.398	3.0	43.9	32.3	37.4	0.7	-33.2	0.0	0.7	49.4	37.9	74	54	-24.6	-16.1	H		
17.087	3.0	44.5	32.6	41.2	0.8	-32.0	0.0	0.7	55.1	43.2	74	54	-18.9	-10.8	H		
Rev. 4.12.7																	
f	Measurement Frequency					Amp	Preamp Gain					Avg Lim	Average Field Strength Limit				
Dist	Distance to Antenna					D Corr	Distance Correct to 3 meters					Pk Lim	Peak Field Strength Limit				
Read	Analyzer Reading					Avg	Average Field Strength @ 3 m					Avg Mar	Margin vs. Average Limit				
AF	Antenna Factor					Peak	Calculated Peak Field Strength					Pk Mar	Margin vs. Peak Limit				
CL	Cable Loss					HPF	High Pass Filter										

7.4.3. 802.11n HT40 MODE

HARMONICS AND SPURIOUS EMISSIONS

High Frequency Measurement Compliance Certification Services, Fremont 5m Chamber															
Company: Broadcom Project #: 08U11813 Date: 05/30/2008 Test Engineer: Can Ming Chung Configuration: EUT alone Mode: 5.5GHz HT40 mode															
Test Equipment:															
Horn 1-18GHz		Pre-amplifer 1-26GHz		Pre-amplifer 26-40GHz		Horn > 18GHz				Limit					
T60; S/N: 2238 @3m		T145 Agilent 3008A0050								FCC 15.209					
Hi Frequency Cables															
2 foot cable		3 foot cable		12 foot cable		HPF		Reject Filter		Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz					
Thanh 177079008				C-5m Chamber		HPF_7.6GHz									

f GHz	Dist (m)	Read Pk dBuV	Read Avg dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
Low Ch.															
11.010	3.0	43.4	31.5	37.3	0.7	-33.7	0.0	0.7	48.4	36.5	74	54	-25.6	-17.5	V
16.515	3.0	44.2	31.6	39.4	0.8	-32.1	0.0	0.7	53.0	40.4	74	54	-21.0	-13.6	V
11.008	3.0	44.1	31.7	37.3	0.7	-33.7	0.0	0.7	49.1	36.6	74	54	-24.9	-17.4	H
16.546	3.0	45.2	31.8	39.5	0.8	-32.1	0.0	0.7	54.1	40.7	74	54	-19.9	-13.3	H
Mid Ch															
11.178	3.0	43.0	30.6	37.3	0.7	-33.5	0.0	0.7	48.2	35.8	74	54	-25.8	-18.2	V
16.782	3.0	43.6	31.3	40.2	0.8	-32.1	0.0	0.7	53.2	40.9	74	54	-20.8	-13.1	V
11.183	3.0	42.5	30.6	37.3	0.7	-33.5	0.0	0.7	47.7	35.9	74	54	-26.3	-18.1	H
16.770	3.0	42.7	31.3	40.2	0.8	-32.1	0.0	0.7	52.3	40.9	74	54	-21.7	-13.1	H
High Ch															
11.339	3.0	45.5	33.2	37.4	0.7	-33.3	0.0	0.7	51.0	38.6	74	54	-23.0	-15.4	V
16.390	3.0	43.5	31.7	39.0	0.8	-32.1	0.0	0.7	51.8	40.0	74	54	-22.2	-14.0	V
11.340	3.0	43.6	31.5	37.4	0.7	-33.3	0.0	0.7	49.1	37.0	74	54	-24.9	-17.0	H
17.024	3.0	42.8	31.2	40.9	0.8	-32.0	0.0	0.7	53.2	41.6	74	54	-20.8	-12.4	H

Rev. 4.12.7

f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		

7.5. RECEIVER ABOVE 1 GHz IN THE 5.25 – 5.35 GHz BAND

7.5.1. 802.11n HT40 MODE

High Frequency Measurement																
Compliance Certification Services, Fremont 5m Chamber																
Company: Broadcom																
Project #: 08U11813																
Date: 05/30/2008																
Test Engineer: Can Ming Chung																
Configuration: EUT alone																
Mode: 5.2GHz HT40 mode RX with worst case																
Test Equipment:																
Horn 1-18GHz			Pre-amplifier 1-26GHz			Pre-amplifier 26-40GHz			Horn > 18GHz			Limit				
T60; S/N: 2238 @3m			T145 Agilent 3008A0050									RX RSS 210				
Hi Frequency Cables																
2 foot cable			3 foot cable			12 foot cable			HPF			Reject Filter				
Thanh 177079008						C-5m Chamber										
Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz																
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filt dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)	
1.500	3.0	54.5	34.2	26.7	0.4	-35.8	0.0	0.0	45.8	25.5	74	54	-28.2	-28.5	H	
1.661	3.0	53.9	36.4	27.1	0.4	-35.6	0.0	0.0	45.7	28.2	74	54	-28.3	-25.8	H	
2.323	3.0	52.5	39.3	28.4	0.5	-35.1	0.0	0.0	46.2	33.0	74	54	-27.8	-21.0	H	
1.658	3.0	59.2	41.7	27.1	0.4	-35.7	0.0	0.0	51.1	33.5	74	54	-22.9	-20.5	V	
2.331	3.0	62.8	43.1	28.4	0.5	-35.1	0.0	0.0	56.6	36.9	74	54	-17.4	-17.1	V	
2.659	3.0	54.3	37.7	29.4	0.5	-35.2	0.0	0.0	49.0	32.4	74	54	-25.0	-21.6	V	
Rev. 4.12.7																
f	Measurement Frequency					Amp	Preamp Gain					Avg Lim	Average Field Strength Limit			
Dist	Distance to Antenna					D Corr	Distance Correct to 3 meters					Pk Lim	Peak Field Strength Limit			
Read	Analyzer Reading					Avg	Average Field Strength @ 3 m					Avg Mar	Margin vs. Average Limit			
AF	Antenna Factor					Peak	Calculated Peak Field Strength					Pk Mar	Margin vs. Peak Limit			
CL	Cable Loss					HPF	High Pass Filter									

7.6. WORST-CASE BELOW 1 GHz

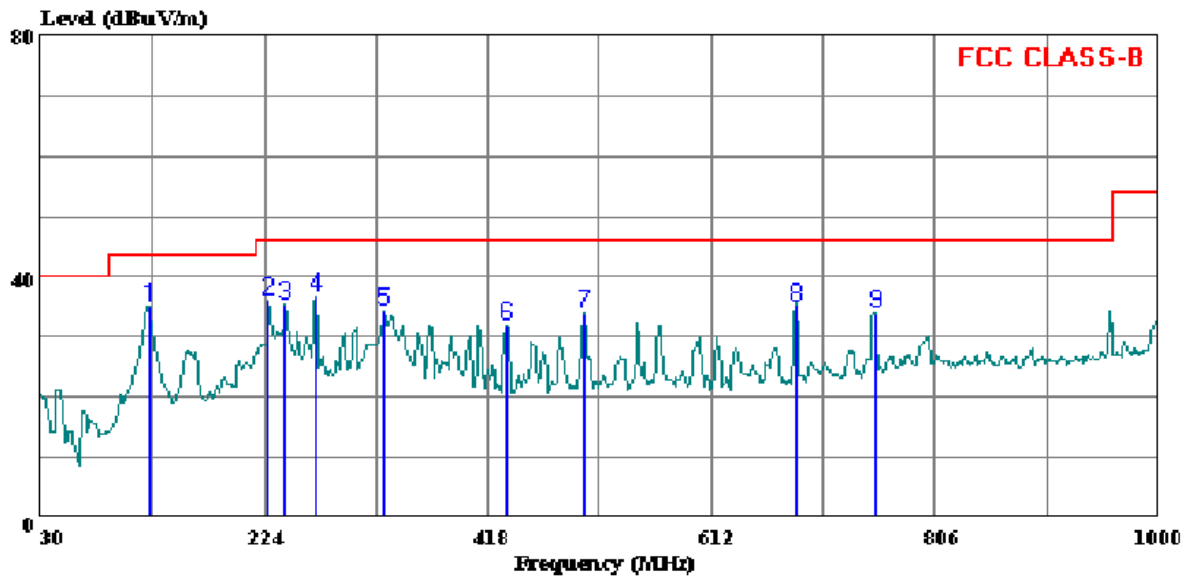
SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)



Compliance Certification Services
47173 Benicia Street
Fremont, CA 94538
Tel: (510) 771-1000
Fax: (510) 661-0888

Data#: 6 File#: 08u11813.emi

Date: 05-29-2008 Time: 10:27:13



Trace: 5

Ref Trace:

Condition: FCC CLASS-B HORIZONTAL
Test Operator:: Chin Pang
Project #: 08U11813
Company: Broadcom
Configuration:: EUT (Yageo) and AC Adapter
Mode : TX (5.8GHz Band 40MHz)
Target: FCC Class B

Page: 1

	Freq	Read		Limit	Over	
	MHz	Level	Factor	Line	Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB
1	124.090	51.55	-16.52	35.03	43.50	-8.47 Peak
2	227.880	54.48	-18.57	35.91	46.00	-10.09 Peak
3	242.430	53.34	-18.02	35.32	46.00	-10.68 Peak
4	269.590	53.67	-17.05	36.62	46.00	-9.38 Peak
5	327.790	49.25	-15.12	34.13	46.00	-11.87 Peak
6	434.490	44.39	-12.61	31.78	46.00	-14.22 Peak
7	502.390	45.23	-11.30	33.93	46.00	-12.07 Peak
8	685.720	43.82	-8.67	35.15	46.00	-10.85 Peak

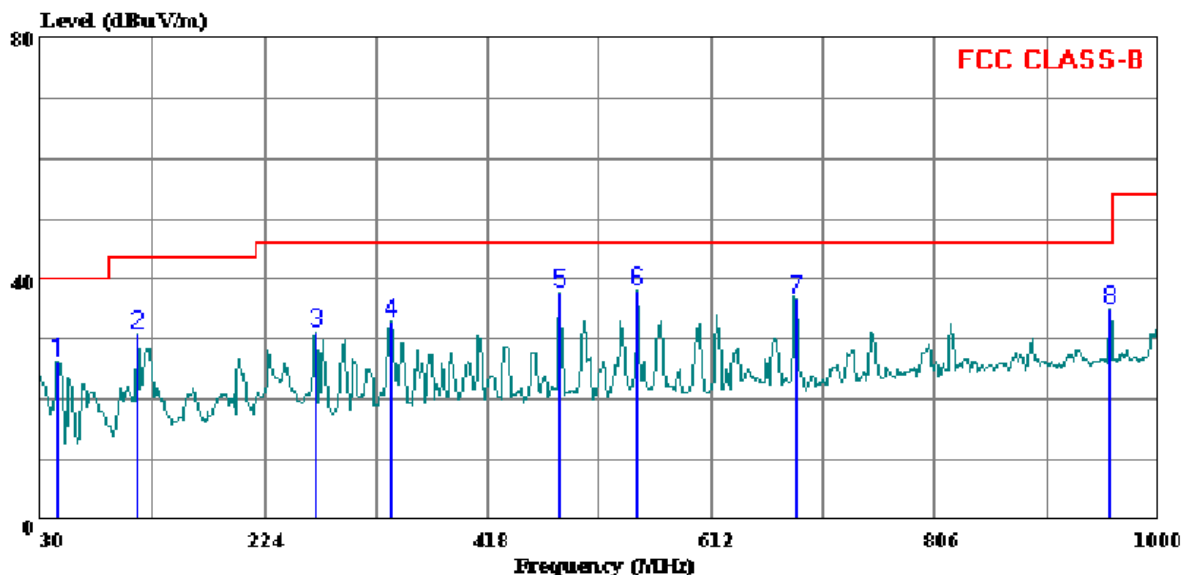
SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)



Compliance Certification Services
47173 Benicia Street
Fremont, CA 94538
Tel: (510) 771-1000
Fax: (510) 661-0888

Data#: 2 File#: 08U11813.EMI

Date: 05-29-2008 Time: 10:08:17



Trace: 1

Ref Trace:

Condition: FCC CLASS-B VERTICAL
Test Operator:: Chin Pang
Project #: 08U11813
Company: Broadcom
Configuration:: EUT (Yageo) and AC Adapter
Mode : TX (5.8GHz Band 40MHz)
Target: FCC Class B

Page: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	44.550	45.14	-18.84	26.30	40.00	-13.70	Peak
2	114.390	48.45	-17.76	30.70	43.50	-12.81	Peak
3	269.590	48.28	-17.05	31.23	46.00	-14.77	Peak
4	334.580	47.86	-14.99	32.87	46.00	-13.13	Peak
5	480.080	49.56	-11.67	37.89	46.00	-8.11	Peak
6	547.980	48.33	-10.40	37.93	46.00	-8.07	Peak
7	685.720	45.21	-8.67	36.54	46.00	-9.46	Peak
8	958.290	38.58	-3.70	34.88	46.00	-11.12	Peak

8. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 7.2.2

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 [*]	56 to 46 [*]
0.5-5	56	46
5-30	60	50

^{*} Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

6 WORST EMISSIONS

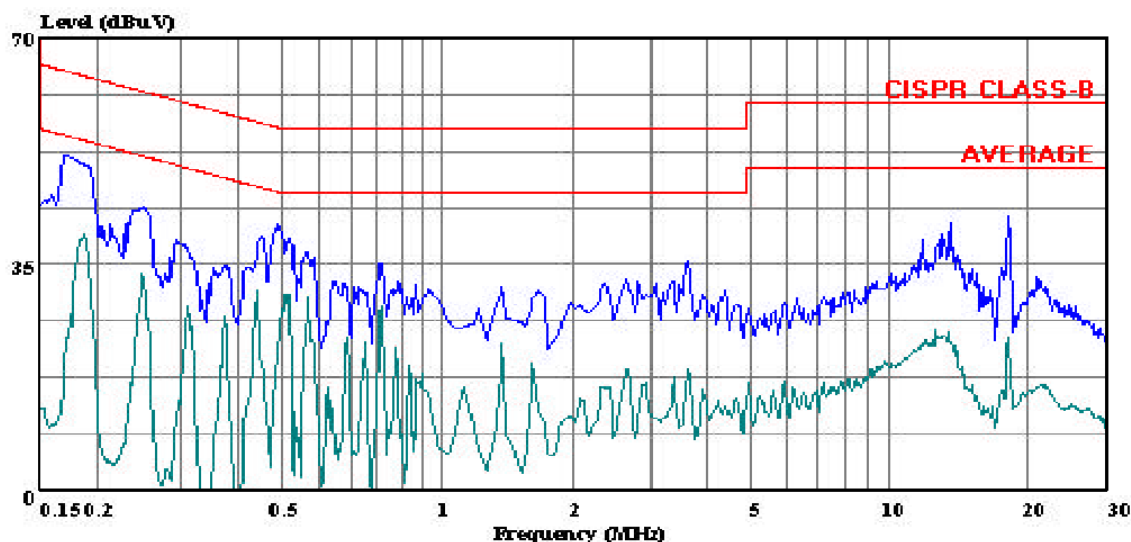
CONDUCTED EMISSIONS DATA (115VAC 60Hz)									
Freq.	Reading			Closs	Limit	EN B	Margin		Remark
(MHz)	PK (dBuV)	QP (dBuV)	AV (dBuV)	(dB)	QP	AV	QP (dB)	AV (dB)	L1 / L2
0.17	51.86	--	39.32	0.00	64.96	54.96	-13.10	-15.64	L1
0.49	40.53	--	30.28	0.00	56.10	46.10	-15.57	-15.82	L1
13.77	41.42	--	24.43	0.00	60.00	50.00	-18.58	-25.57	L1
0.19	49.03	--	39.48	0.00	63.99	53.99	-14.96	-14.51	L2
0.49	42.52	--	32.00	0.00	56.18	46.18	-13.66	-14.18	L2
13.84	41.64	--	26.93	0.00	60.00	50.00	-18.36	-23.07	L2
6 Worst Data									

LINE 1 RESULTS



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(Line Conduction)

Trace: 5

Ref Trace:

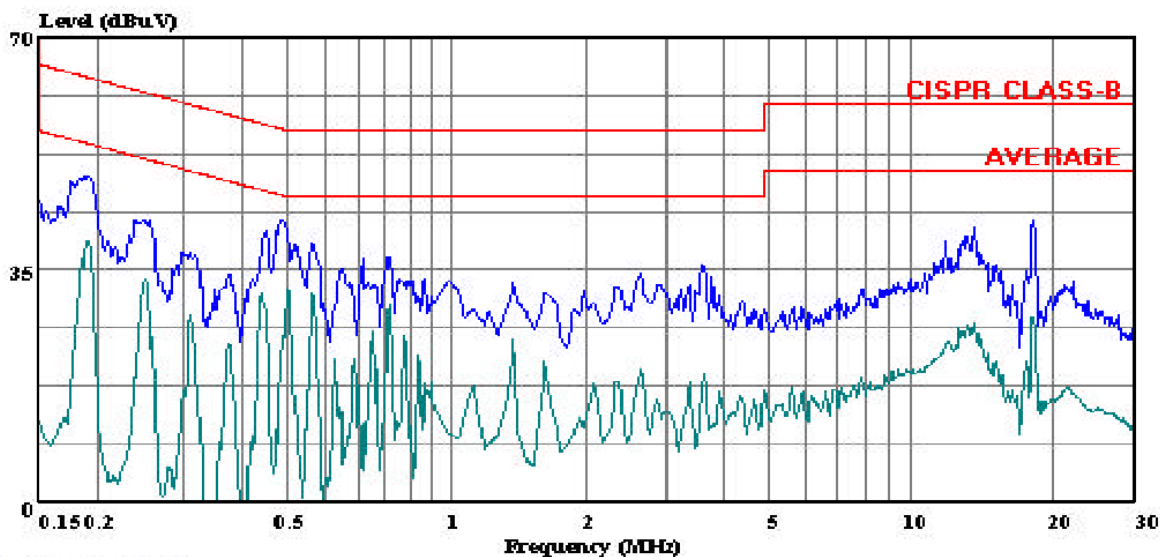
Condition: CISPR CLASS-B
Test Operator:: Chin Pang
Project #: : 08U11813
Company: : Broadcom
Configuration:: EUT (Yageo) and AC Adapter
Mode: : TX (Worst Case, 5GHz Band)
Target: : FCC Class B
Voltage: : 115VAC/ 60Hz
: L1: Peak (Blue); Avg (Green)

LINE 2 RESULTS



Compliance Certification Services
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Tel: (510) 771-1000
Fax: (510) 661-0888

Data#: 14 File#: 08U11813.EMI Date: 05-29-2008 Time: 14:12:33



(Line Conduction)

Trace: 12

Ref Trace:

Condition: CISPR CLASS-B
Test Operator:: Chin Pang
Project #: 08U11813
Company: Broadcom
Configuration:: EUT (Yageo) and AC Adapter
Mode: TX (Worst Case, 5GHz Band)
Target: FCC Class B
Voltage: 115VAC/ 60Hz
L2: Peak (Blue); Avg (Green)