FCC 47 CFR PART 15 SUBPART C

Report No.: T120201G02 -RP1

TEST REPORT

For

Cisco Small Business Telepresence

Model: CLX300

Trade Name: CISCO

Issued to

Cisco Systems Inc. 170 West Tasman Drive, San Jose, CA 95134,United States

Issued by

Compliance Certification Services Inc.
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Issued Date: March 8, 2012





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Revision History

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	Issue		Effect	
Rev.	Date	Revisions	Page	Revised By
00	March 8, 2012	Initial Issue	ALL	Angel Cheng

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1. TEST RESULT CERTIFICATION

Applicant: Cisco Systems Inc.

170 West Tasman Drive, San Jose, CA 95134, United States

Report No.: T120201G02 -RP1

Equipment Under Test: Cisco Small Business Telepresence

Trade Name: CISCO
Model: CLX300

Date of Test: November 30, 2011 ~ March 8, 2012

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:

Jason Lin

Section Manager

Compliance Certification Services Inc.

Gina Lo Section Manager

Compliance Certification Services Inc.

2. EUT DESCRIPTION

Product	Cisco Small Business Telepresence
Trade Name	CISCO
Model Number	CLX300
Model Discrepancy	N/A
Received Date	February 1, 2012
Power Adapter	1. DVE / DSA-12PFA-05 FUS 050200 I/P: 100-240V, 50-60Hz, 0.5A O/P: +5V, 2A 2. APD / WA-10J05FU I/P: 100-240V, 50-60Hz, 0.3A MAX O/P: 5V, 2A
HDMI Cable	LOROM INDUSTRIAL CO.,LTD. /
Manufacturer	WANSHIH ELECTRONIC CO.,LTD.
HDMI Cable Model	72-4989-01(A096A1005) / EH9HDM0001A
HDMI Cable Type	Shielded, 1.8m (Detachable)
Frequency Range	IEEE 802.11a/ IEEE 802.11n HT 20 MHz: 5.725~5.850 GHz IEEE 802.11b/g/ IEEE 802.11n HT 20 MHz: 2.412~2.462 GHz
Transmit Power	IEEE 802.11a mode: 17.12 dBm IEEE 802.11n HT 20 MHz mode: 16.13 dBm IEEE 802.11b mode: 14.16 dBm IEEE 802.11g mode: 19.65 dBm IEEE 802.11n HT 20 MHz mode: 18.48 dBm
Modulation Technique & Transmit Data Rate	IEEE 802.11a: OFDM (54, 48, 36, 24, 18, 12, 9, 6 Mbps) IEEE 802.11n HT 20 MHz mode: OFDM (6.5, 7.2, 13, 14.4, 14.44, 19.5, 21.7, 26, 28.89, 28.9, 39, 43.3, 43.33 52, 57.78, 57.8, 58.5, 65.0, 72.2, 78, 86.67, 104, 115.56, 117, 130, 144.44 Mbps) IEEE 802.11b mode: DSSS (1, 2, 5.5 and 11 Mpbs) IEEE 802.11g mode: OFDM (6, 9, 12, 18, 24, 36, 48 and 54 Mpbs) IEEE 802.11n HT 20 MHz mode: OFDM (6.5, 7.2, 13, 14.4, 14.44, 19.5, 21.7, 26, 28.89, 28.9, 39, 43.3, 43.33 52, 57.78, 57.8, 58.5, 65.0, 72.2, 78, 86.67, 104, 115.56, 117, 130, 144.44 Mbps)
Number of Channels	IEEE 802.11a mode: 5 Channels IEEE 802.11n HT 20 MHz mode: 5 Channels IEEE 802.11b/g mode: 11 Channels IEEE 802.11n HT 20 MHz mode: 11 Channels
Antenna Specification	IEEE 802.11b/g/ IEEE 802.11n HT 20 MHz: PIFA Antenna / Gain: 2.26 dBi IEEE 802.11a/ IEEE 802.11n HT 20 MHz: PIFA Antenna / Gain: 4.61 dBi

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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>LDK-CLX300</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 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 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.

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 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

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

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 (model: CLX300) comes with two types of power adapter (DVE & APD) for sale. After the preliminary test, the EUT with power adapter (Model: DVE) was found to emit the worst emissions and therefore had been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting mode was programmed. The worst case data rate is determined as the data rate with highest output power.

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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 Low (2412MHz), Channel Mid (2442MHz) and Channel High (2462MHz) with 1Mbps data rate were chosen for full testing.

IEEE 802.11g mode:

Channel Low (2412MHz), Channel Mid (2442MHz) and Channel High (2462MHz) with 6Mbps data rate were chosen for full testing.

IEEE 802.11n HT 20 MHz mode:

Channel Low (2412MHz), Channel Mid (2442MHz) and Channel High (2462MHz) with 6.5Mbps data rate were chosen for full testing.

IEEE 802.11a mode:

Channel Low (5745MHz), Channel Mid (5785MHz) and Channel High (5825MHz) with 6Mbps data rate were chosen for full testing.

IEEE 802.11n HT 20 MHz mode:

Channel Low(5745MHz), Channel Mid(5785MHz) and Channel High(5825MHz) with 6.5Mbps data rate were chosen for full testing.

The field strength of spurious emission was measured in the following position: EUT stand-up position (Z mode), lie-down position (X, Y mode). The worst emission was found in lie-down position (Y axis) and the worst case was recorded.

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 and Loop Antenna is scheduled for calibration once three years.

Conducted Emissions Test Site						
Name of Equipment Manufacturer Model Serial Number Calibration Du						
Spectrum Analyzer	Agilent	E4446A	MY43360131	03/17/2012		
Power Meter	Anritsu	ML2495A	1012009	04/27/2012		
Power Sensor	Anritsu	MA2411B	0917072	04/27/2012		

Wugu 966 Chamber A						
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due		
Spectrum Analyzer	Agilent	E4446A US42510268		11/15/2012		
EMI Test Receiver	R&S	ESCI	100064	02/17/2012		
Pre-Amplifier	Mini-Circults	ZFL-1000LN	SF350700823	01/12/2013		
Pre-Amplifier	MITEQ	AFS44-00102650- 42-10P-44	1415367	11/20/2012		
Bilog Antenna	Sunol Sciences	JB3	A030105	10/03/2012		
Horn Antenna	EMCO	3117	00055165	01/11/2013		
Horn Antenna	EMCO	3116	3116 00026370			
Loop Antenna	EMCO	CO 6502 8905/2356		06/10/2013		
Turn Table	CCS	CC-T-1F	N/A	N.C.R		
Antenna Tower	CCS CC-A-1F N/A		N/A	N.C.R		
Controller	CCS	CC-C-1F	N/A	N.C.R		
Site NSA	CCS	N/A	N/A	12/25/2012		
Test S/W	Test S/W EZ-EMC (CCS-3A1RE)					

Conducted Emission room # A								
Name of Equipment Manufacturer Model Serial Number Calibration Du								
EMI Test Receiver	R&S	ESCI	101203	07/26/2012				
LISN	R&S	ESH3-Z5	848773/014	12/07/2012				
LISN	SCHWARZBECK	NSLK 8127	8127-541	12/14/2012				
Test S/W	CCS-3A1-CE							

4.3 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
Powerline Conducted Emission	+/- 1.2159
3M Semi Anechoic Chamber / 30M~200M	+/- 4.0138
3M Semi Anechoic Chamber / 200M~1000M	+/- 3.9483
3M Semi Anechoic Chamber / 1G~8G	+/- 2.5975
3M Semi Anechoic Chamber / 8G~18G	+/- 2.6112
3M Semi Anechoic Chamber / 18G~26G	+/- 2.7389
3M Semi Anechoic Chamber / 26G~40G	+/- 2.9683

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

All measurement facilities used to collect the measurement data are located at

5.1 FACILITIES

No.199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C.
Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029
No.11, Wu-Gong 6th Rd., Wugu Industrial Park, New Taipei City 248, Taiwan (R.O.C.) Tel: 886-2-2299-9720 / Fax: 886-2-2298-4045
No.81-1, Lane 210, Bade 2nd Rd., Lujhu Township, Taoyuan County 33841, TAIWAN, R.O.C.
Tel: 886-3-324-0332 / Fax: 886-3-324-5235
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The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 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."

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	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		3M Semi Anechoic Chamber (IC 2324G-1 / IC 2324G-2) to perform	Canada IC 2324G-1 IC 2324G-2

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

6.2 SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	Series No.	FCC ID	Data Cable	Power Cord
1.	Notebook PC	DELL	PP19L	71G6Q1S	N/A	N/A	AC I/P: Unshielded, 1.8m DC O/P: Unshielded, 1.8m with a core
2.	LCD Monitor	DELL	2407WFPb	CN-0YY528-46633-76I- 1CDS		Shielded, 1.8m with 2 cores	Unshielded, 1.8m

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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.

7. FCC PART 15.247 REQUIREMENTS

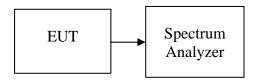
7.1 6dB BANDWIDTH

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 6dB 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 = Base mode, 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

Test Data

Test mode: IEEE 802.11b mode

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
Low	2412	10.1666		PASS
Mid	2442	10.1666	>500	PASS
High	2462	10.1666		PASS

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Test mode: IEEE 802.11g mode

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
Low	2412	16.6666		PASS
Mid	2442	16.6666	>500	PASS
High	2462	16.6666		PASS

Test mode: IEEE 802.11n HT 20 MHz mode

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
Low	2412	18		PASS
Mid	2442	18	>500	PASS
High	2462	17.8334		PASS

Test mode: IEEE 802.11a mode

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
Low	5745	16.50		PASS
Mid	5785	16.50	>500	PASS
High	5825	16.50		PASS

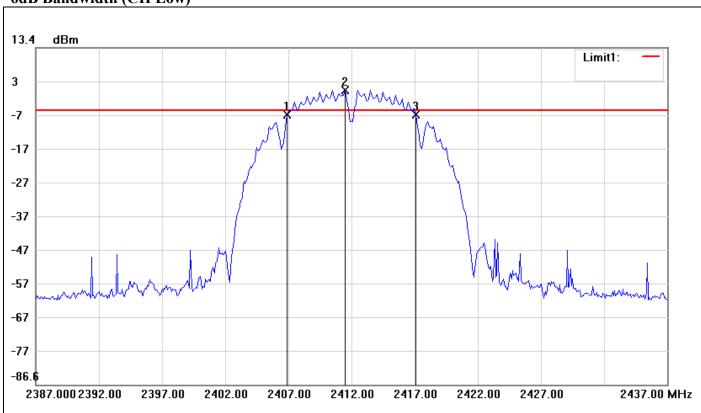
Test mode: IEEE 802.11n HT 20 MHz mode

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
Low	5745	17.75		PASS
Mid	5785	17.83	>500	PASS
High	5825	17.83		PASS

Test Plot

IEEE 802.11b mode

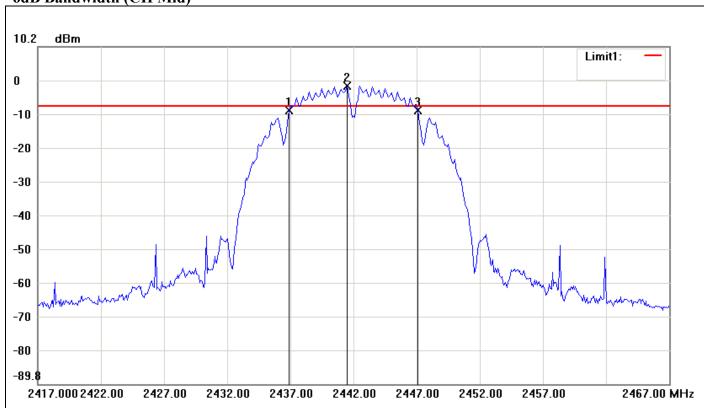
6dB Bandwidth (CH Low)



No.	Frequency(MHz)	Level(dBm)	Limit(dBm)	Margin(dBm)
1	2406.9167	-6.57	-5.21	-1.36
2	2411.5000	0.79	-5.21	6.00
3	2417.0833	-6.51	-5.21	-1.30

No.		△Frequency(MHz)	△Level(dB)
1	mk3-mk1	10.1666	0.06

6dB Bandwidth (CH Mid)

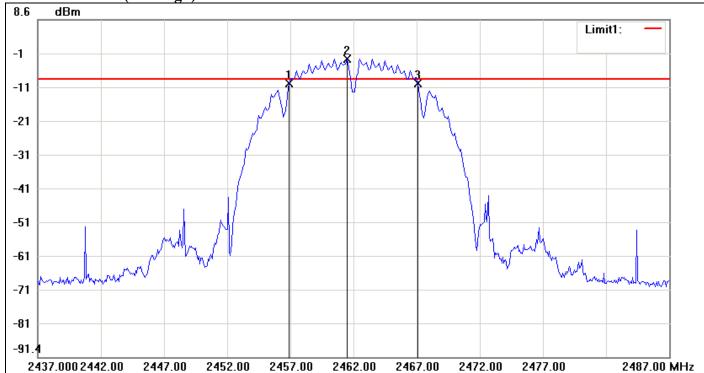


No.	Frequency(MHz)	Level(dBm)	Limit(dBm)	Margin(dBm)
1	2436.9167	-8.70	-7.43	-1.27
2	2441.5000	-1.43	-7.43	6.00
3	2447.0833	-8.80	-7.43	-1.37

No.		△Frequency(MHz)	△Level(dB)
1	mk3-mk1	10.1666	-0.1

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6dB Bandwidth (CH High)

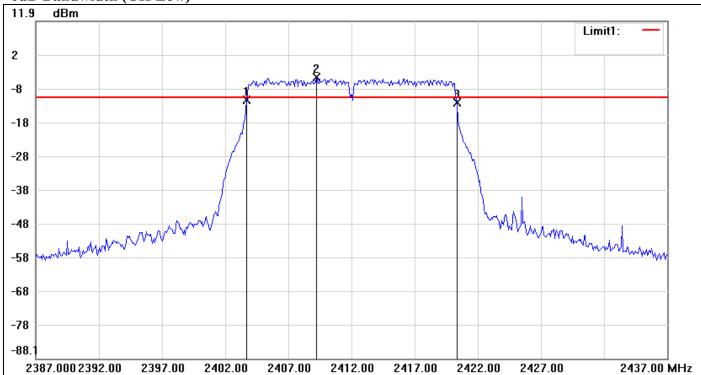


No.	Frequency(MHz)	Level(dBm)	Limit(dBm)	Margin(dBm)
1	2456.9167	-10.16	-8.90	-1.26
2	2461.5000	-2.90	-8.90	6.00
3	2467.0833	-10.29	-8.90	-1.39

No.		△Frequency(MHz)	△Level(dB)
1	mk3-mk1	10.1666	-0.13

IEEE 802.11g mode

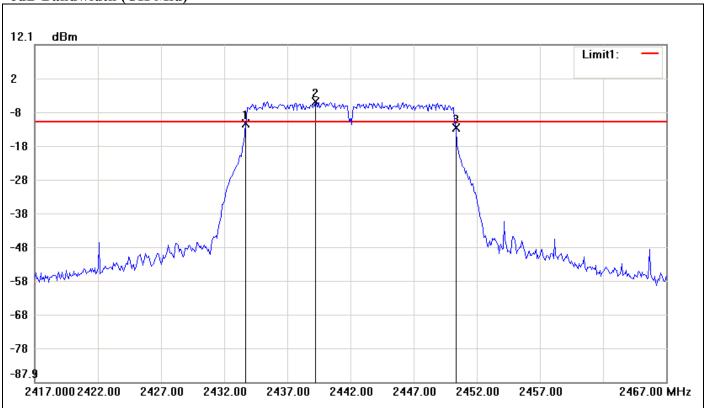
6dB Bandwidth (CH Low)



No.	Frequency(MHz)	Level(dBm)	Limit(dBm)	Margin(dBm)
1	2403.6667	-11.50	-10.80	-0.70
2	2409.2500	-4.80	-10.80	6.00
3	2420.3333	-12.27	-10.80	-1.47

No.		△Frequency(MHz)	\triangle Level(dB)
1	mk3-mk1	16.6666	-0.77

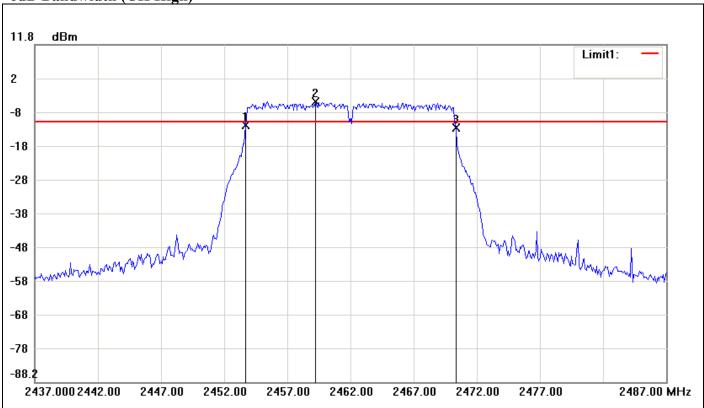
6dB Bandwidth (CH Mid)



No. Frequency(MHz)		Level(dBm)	Limit(dBm)	Margin(dBm)	
	1	2433.6667	-11.30	-10.81	-0.49
	2	2439.2500	-4.81	-10.81	6.00
	3	2450.3333	-12.58	-10.81	-1.77

No.		△Frequency(MHz)	△Level(dB)
1	mk3-mk1	16.6666	-1.28

6dB Bandwidth (CH High)

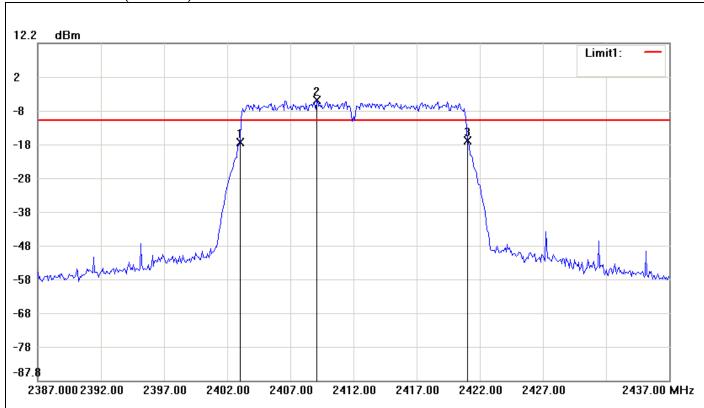


No. Frequency(MHz)		Level(dBm)	Limit(dBm)	Margin(dBm)
1	2453.6667	-12.11	-11.03	-1.08
2	2459.2500	-5.03	-11.03	6.00
3	2470.3333	-12.79	-11.03	-1.76

No.		△Frequency(MHz)	△Level(dB)
1	mk3-mk1	16.6666	-0.68

IEEE 802.11n HT 20 MHz mode

6dB Bandwidth (CH Low)



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No.	Frequency(MHz)	Level(dBm)	Limit(dBm)	Margin(dBm)
1	2403.0000	-17.25	-10.71	-6.54
2	2409.0833	-4.71	-10.71	6.00
3	2421.0000	-16.71	-10.71	-6.00

No.		△Frequency(MHz)	△Level(dB)
1	mk3-mk1	18	0.54

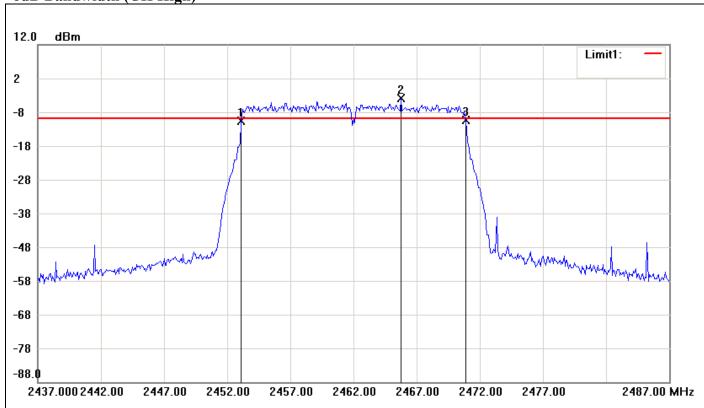
6dB Bandwidth (CH Mid)



No. Frequency(MHz)		Level(dBm)	Limit(dBm)	Margin(dBm)	
	1	2433.0000	-17.21	-10.37	-6.84
	2	2439.0833	-4.37	-10.37	6.00
	3	2451.0000	-16.55	-10.37	-6.18

No.		△Frequency(MHz)	△Level(dB)
1	mk3-mk1	18	0.66

6dB Bandwidth (CH High)

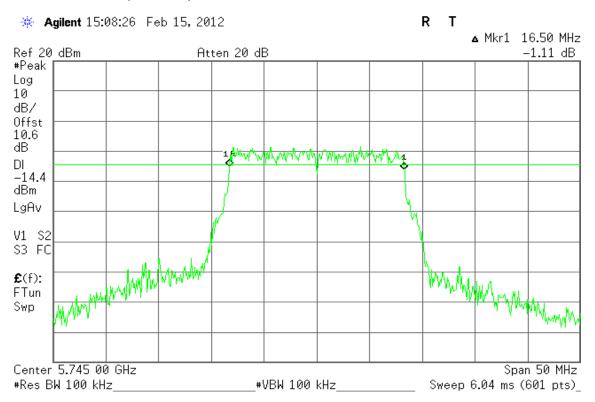


No. Frequency(MHz) Le		Level(dBm)	Limit(dBm)	Margin(dBm)	
	1	2453.0833	-10.60	-9.80	-0.80
	2	2465.7500	-3.80	-9.80	6.00
	3	2470.9167	-10.47	-9.80	-0.67

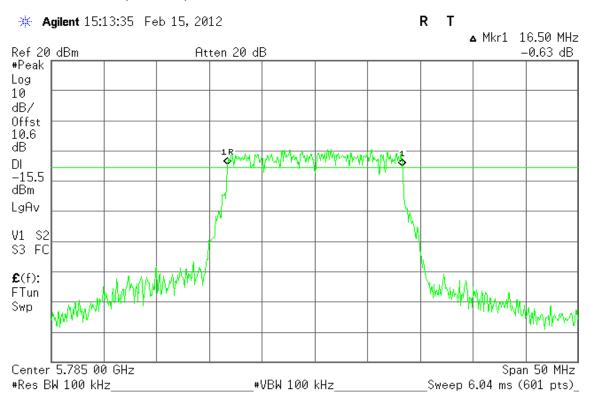
No.		△Frequency(MHz)	△Level(dB)
1	mk3-mk1	17.8334	0.13



IEEE 802.11a mode 6dB Bandwidth (CH Low)

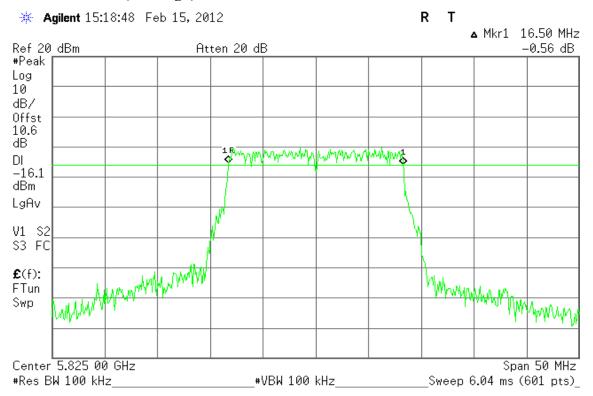


6dB Bandwidth (CH Mid)



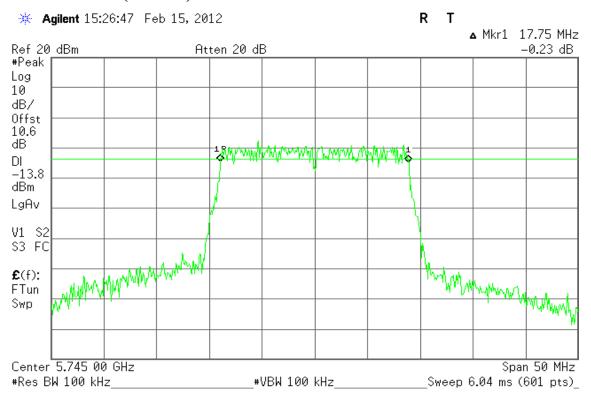


6dB Bandwidth (CH High)

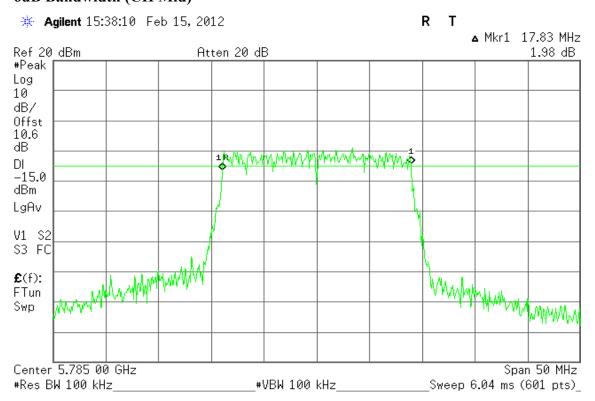


IEEE 802.11n HT 20 MHz mode

6dB Bandwidth (CH Low)

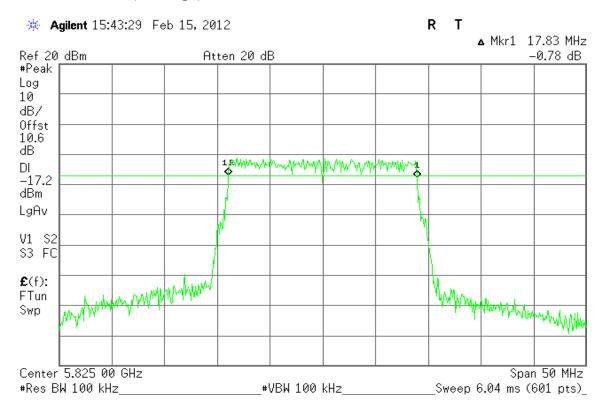


6dB Bandwidth (CH Mid)



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6dB Bandwidth (CH High)



7.2 PEAK POWER

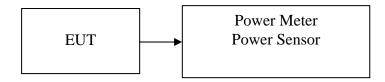
LIMIT

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

The transmitter output is connected to the Power Meter. The Power Meter is set to the peak power detection.

TEST RESULTS

No non-compliance noted.

Test Data

Test mode: IEEE 802.11b mode

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	14.16	0.0261	1.00	PASS
Mid	2442	12.31	0.0170		PASS
High	2462	10.51	0.0112		PASS

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Test mode: IEEE 802.11g mode

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	19.65	0.0923		PASS
Mid	2442	18.85	0.0767	1.00	PASS
High	2462	18.66	0.0735		PASS

Test mode: IEEE 802.11n HT 20 MHz mode

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	18.48	0.0705		PASS
Mid	2442	18.32	0.0679	1.00	PASS
High	2462	18.11	0.0647		PASS

Test mode: IEEE 802.11a mode

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	5745	17.12	0.0515		PASS
Mid	5785	16.17	0.0414	1.00	PASS
High	5825	15.15	0.0327		PASS

Test mode: IEEE 802.11n HT 20 MHz mode

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	5745	16.13	0.0410		PASS
Mid	5785	15.22	0.0333	1.00	PASS
High	5825	14.36	0.0273		PASS

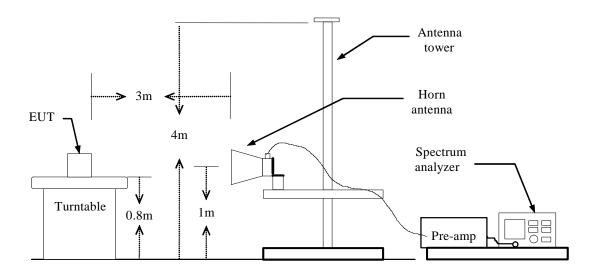
7.3 BAND EDGES MEASUREMENT

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)).

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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=1MHz / VBW=3Hz / 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.

802.11a Mode

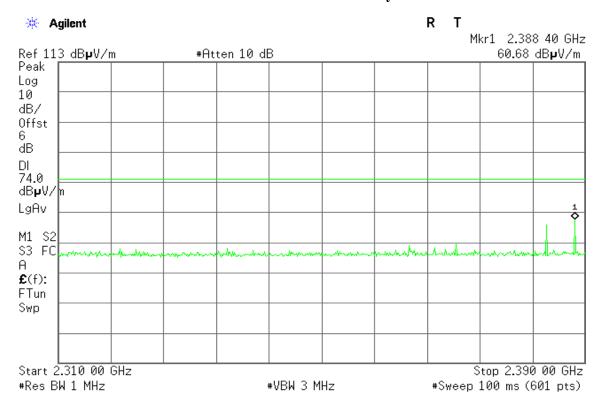
1. Operating Frequency: 5725-5875MHz 2. CH Low: 5745MHz, CH High: 5825MHz

3. 6dB bandwidth: CH Low: 17.75MHz, CH High: 17.80MHz

Because the mentioned conditions, the test is not applicable.

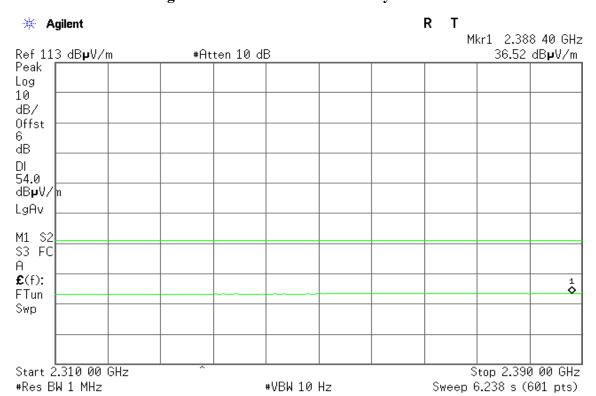
Band Edges (IEEE 802.11b mode / CH Low)

Detector mode: Peak Polarity: Vertical

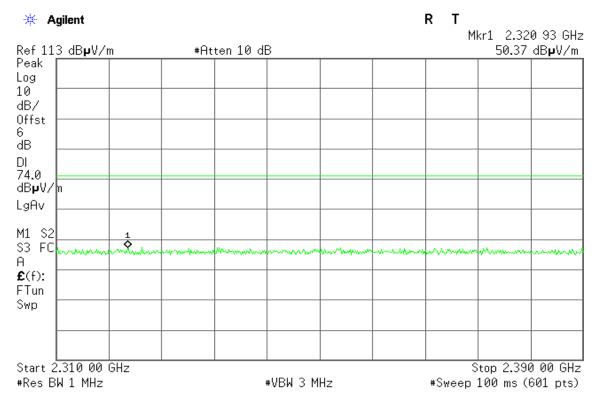


Report No.: T120201G02 -RP1

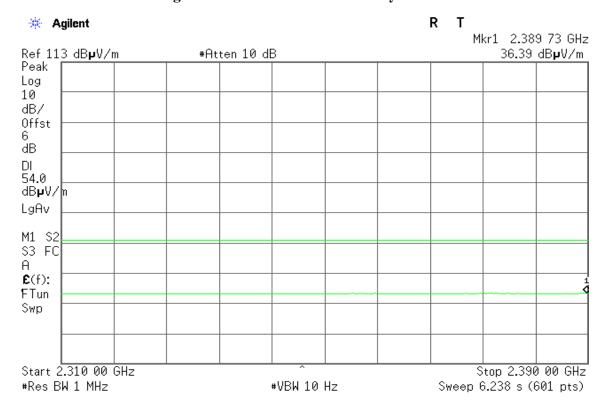
Detector mode: Average Polarity: Vertical



Detector mode: Peak Polarity: Horizontal

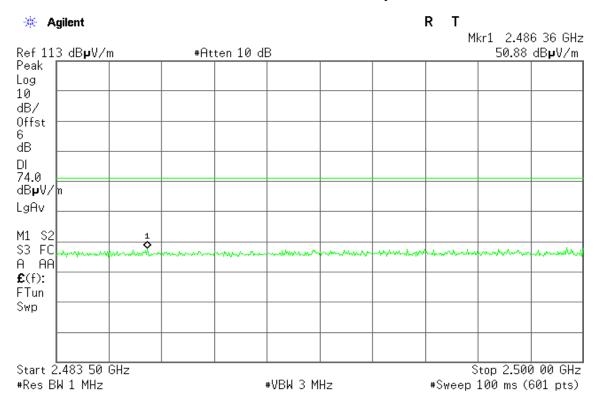


Polarity: Horizontal Detector mode: Average



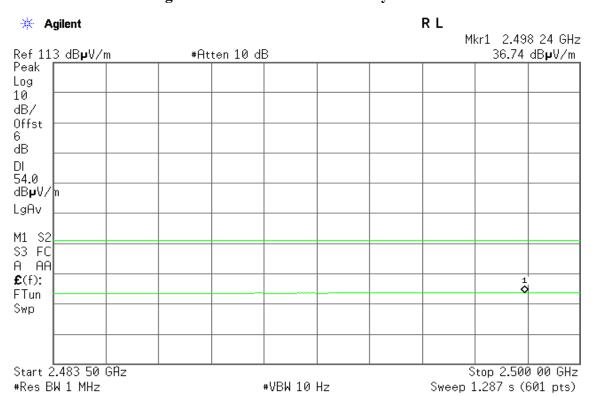
Band Edges (IEEE 802.11b mode / CH High)

Detector mode: Peak Polarity: Vertical

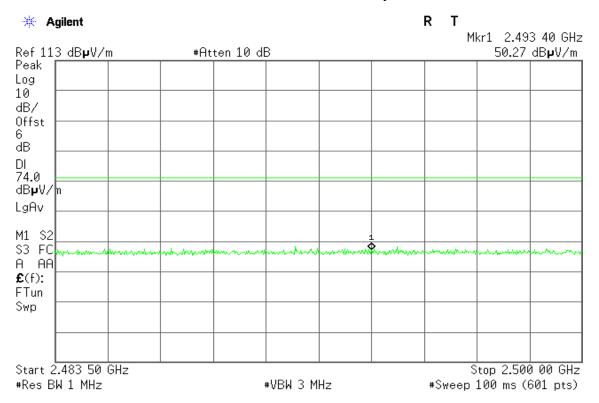


Report No.: T120201G02 -RP1

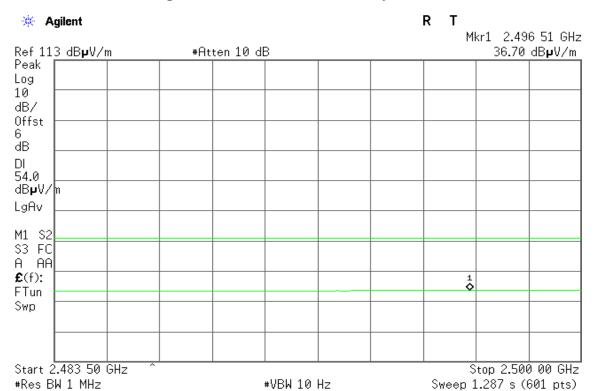
Detector mode: Average Polarity: Vertical



Detector mode: Peak Polarity: Horizontal

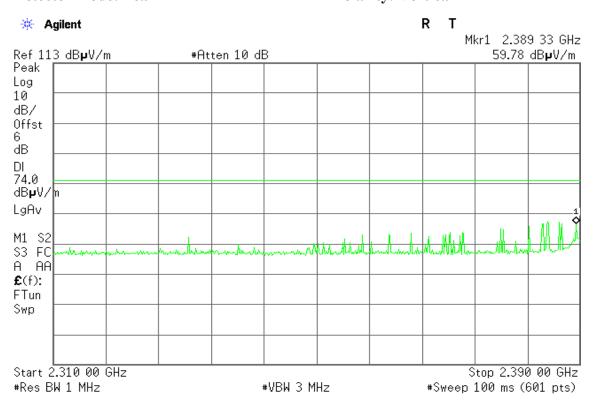


Polarity: Horizontal Detector mode: Average



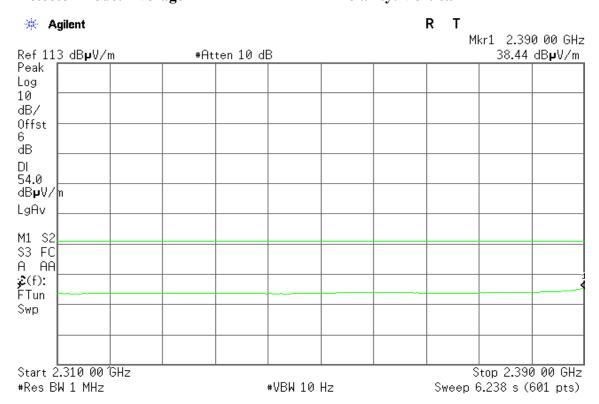
Band Edges (IEEE 802.11g mode / CH Low)

Detector mode: Peak Polarity: Vertical



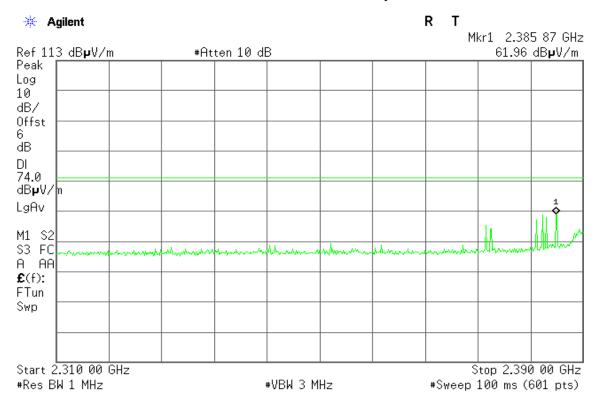
Report No.: T120201G02 -RP1

Detector mode: Average Polarity: Vertical

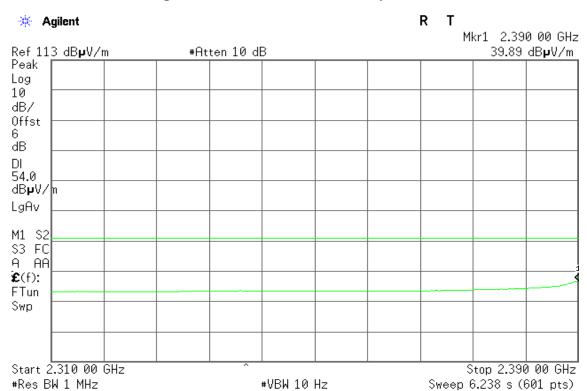


FCC ID: LDK-CLX300 Report No.: T120201G02 -RP1

Detector mode: Peak Polarity: Horizontal

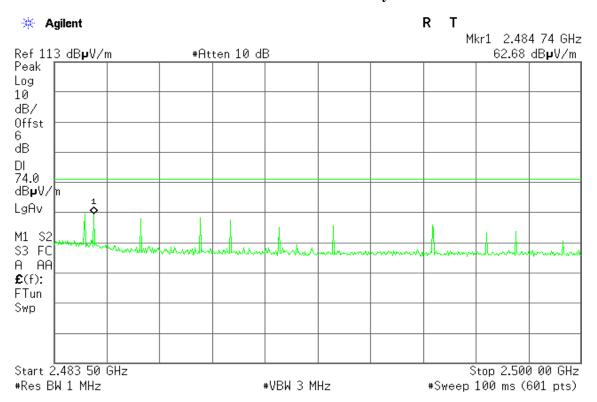


Detector mode: Average Polarity: Horizontal



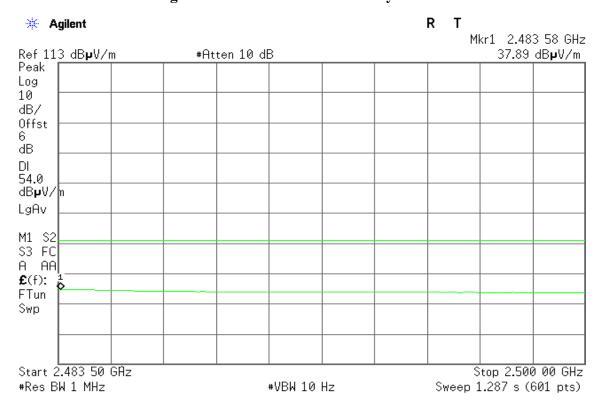
Band Edges (IEEE 802.11g mode / CH High)

Detector mode: Peak Polarity: Vertical



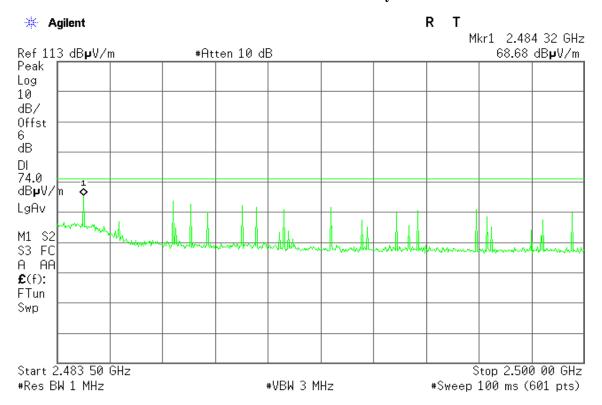
Report No.: T120201G02 -RP1

Detector mode: Average Polarity: Vertical

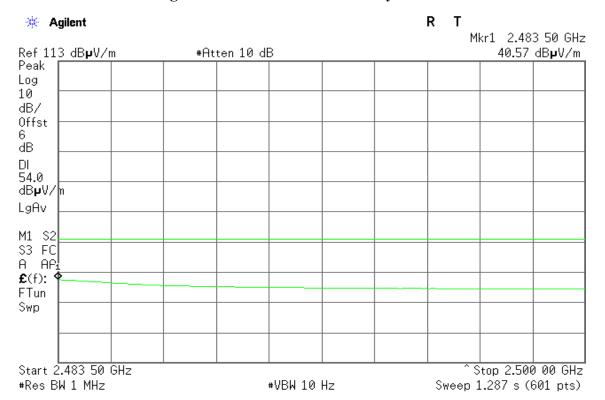




Detector mode: Peak Polarity: Horizontal

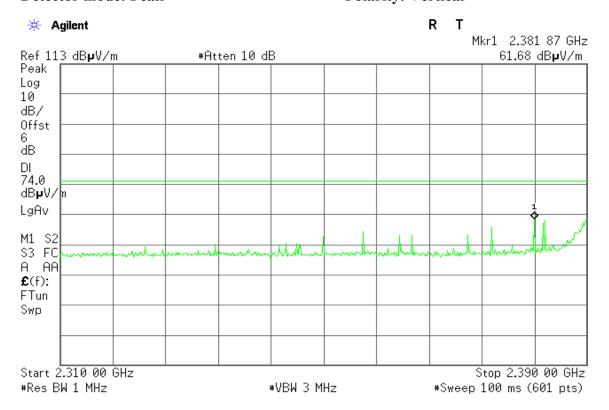


Detector mode: Average Polarity: Horizontal

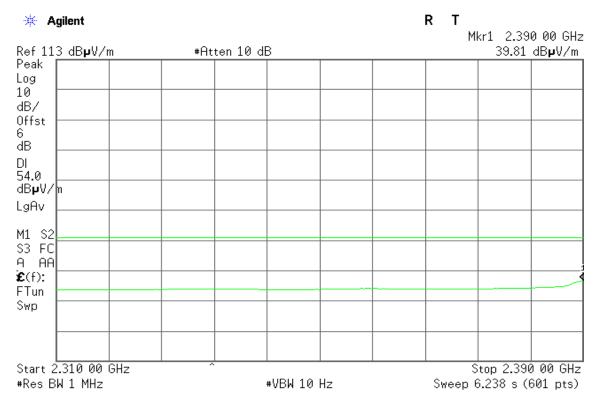


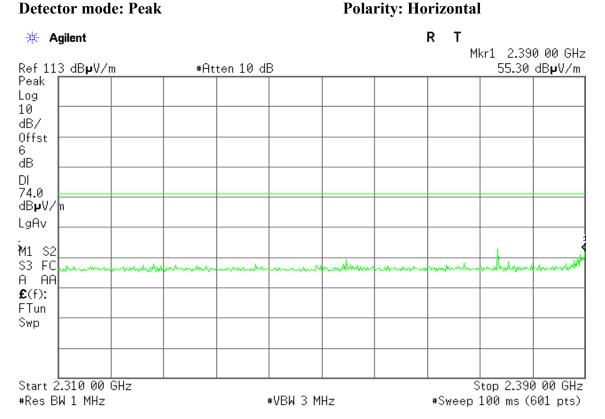
Band Edges (IEEE 802.11n HT 20 MHz mode / CH Low)

Detector mode: Peak Polarity: Vertical

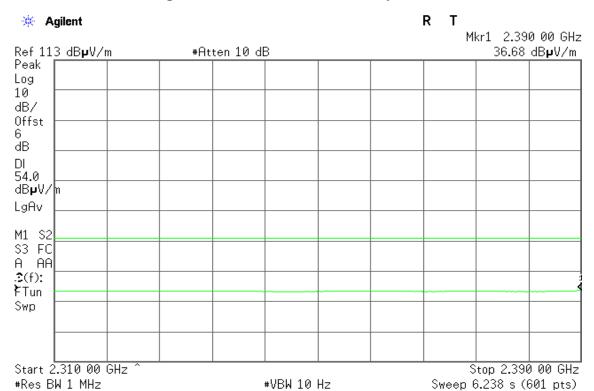


Detector mode: Average Polarity: Vertical



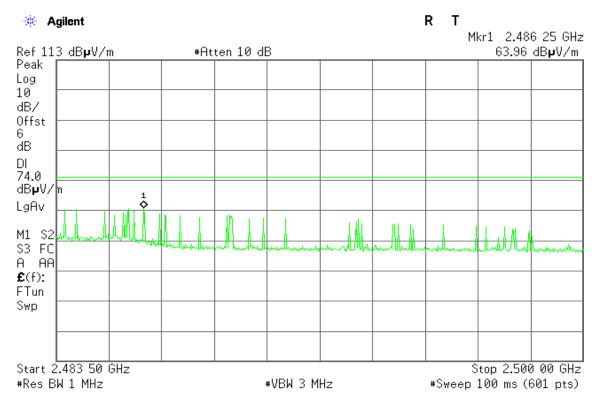


Detector mode: Average Polarity: Horizontal

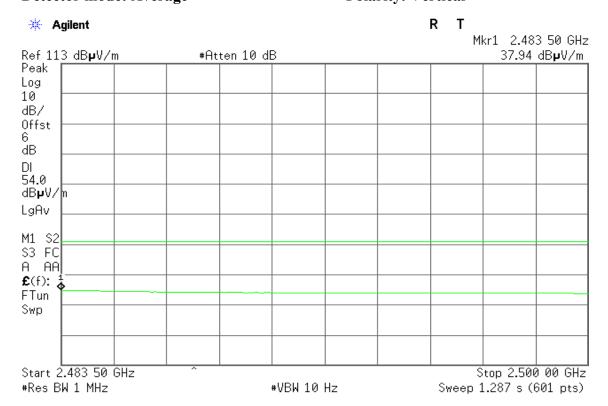


Band Edges (IEEE 802.11n HT 20 MHz mode / CH High)

Detector mode: Peak Polarity: Vertical

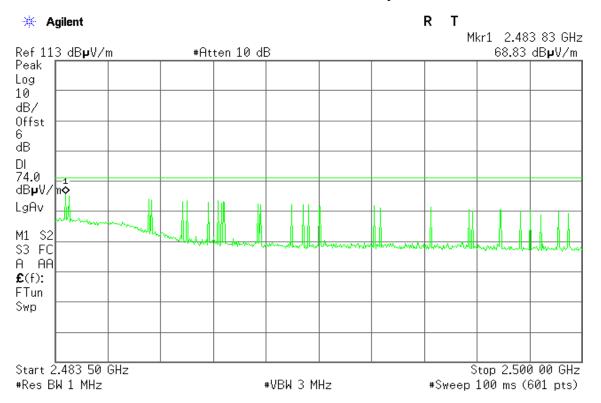


Polarity: Vertical Detector mode: Average

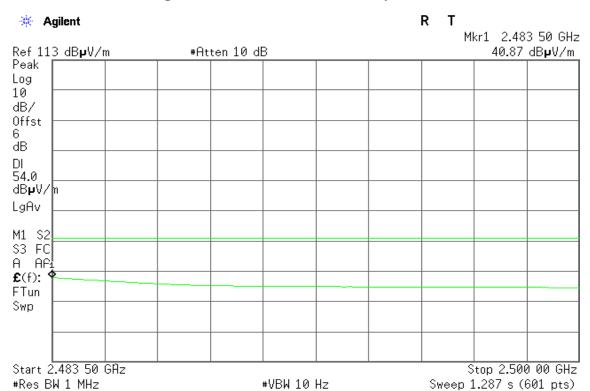




Detector mode: Peak Polarity: Horizontal



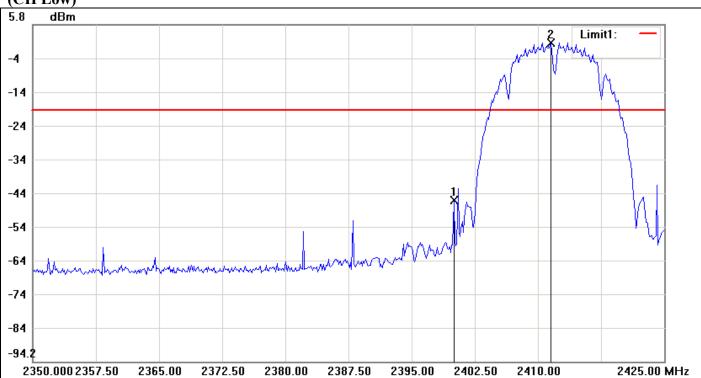
Detector mode: Average Polarity: Horizontal



Conducted Bandedge

IEEE 802.11b mode:

(CH Low)



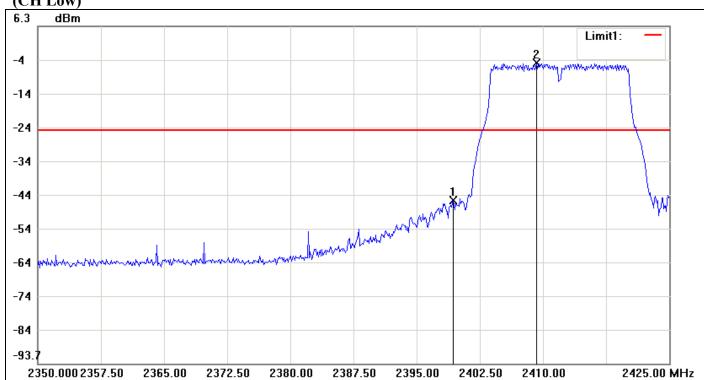
No.	Frequency(MHz)	Level(dBm)	Limit(dBm)	Margin(dBm)
1	2400.0000	-46.19	-19.49	-26.70
2	2411.5000	0.51	-19.49	20.00



	No.	Frequency(MHz)	Level(dBm)	Limit(dBm)	Margin(dBm)
	1	2461.4700	-2.96	-22.96	20.00
Γ	2	2489.2200	-59.06	-22.96	-36.10

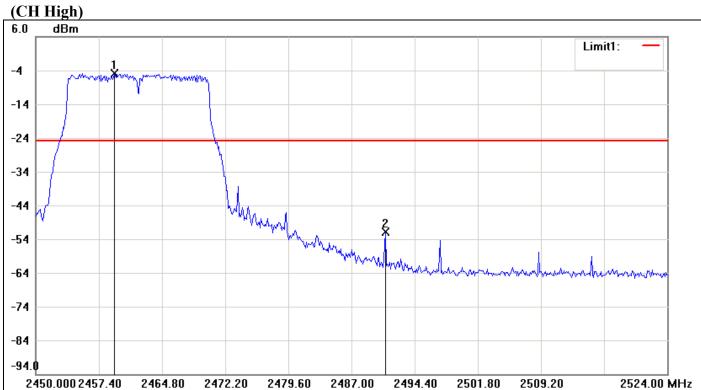
IEEE 802.11g mode:

(CH Low)



No.	Frequency(MHz)	Level(dBm)	Limit(dBm)	Margin(dBm)
1	2399.3750	-45.42	-24.48	-20.94
2	2409.2500	-4.48	-24.48	20.00

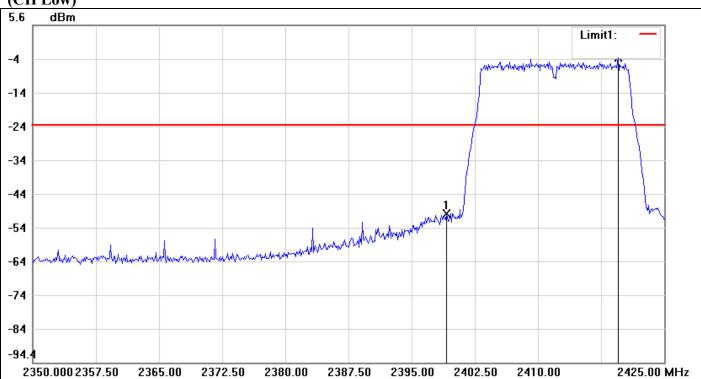




No.	Frequency(MHz)	Level(dBm)	Limit(dBm)	Margin(dBm)
1	2459.2500	-4.78	-24.78	20.00
2	2490.9467	-51.77	-24.78	-26.99

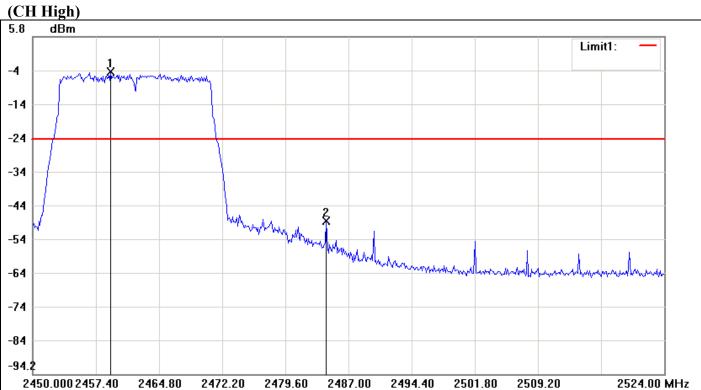
IEEE 802.11n HT 20 MHz mode:

(CH Low)



No.	Frequency(MHz)	Level(dBm)	Limit(dBm)	Margin(dBm)
1	2399.1250	-50.16	-24.08	-26.08
2	2419.5000	-4.08	-24.08	20.00

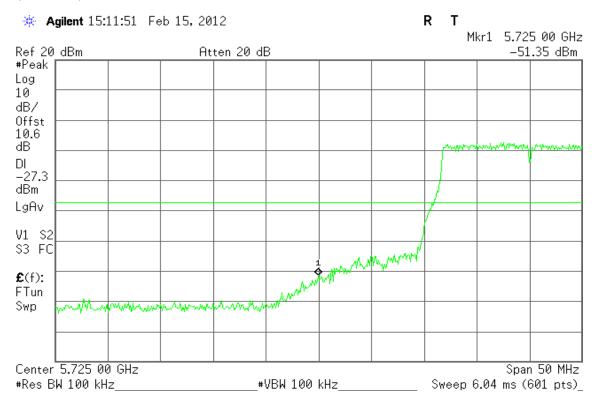




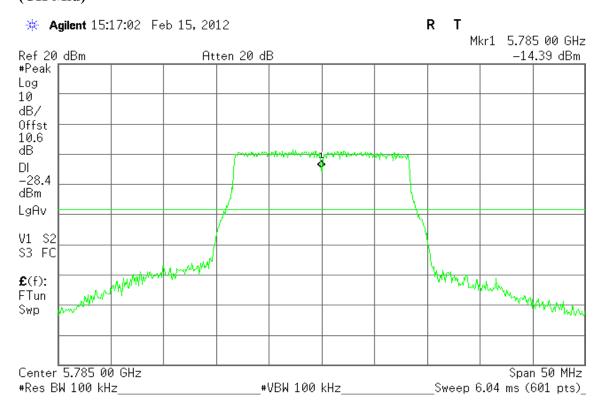
No.	Frequency(MHz)	Level(dBm)	Limit(dBm)	Margin(dBm)
1	2459.1267	-4.50	-24.50	20.00
2	2484.4100	-48.73	-24.50	-24.23

Test mode: IEEE 802.11a mode

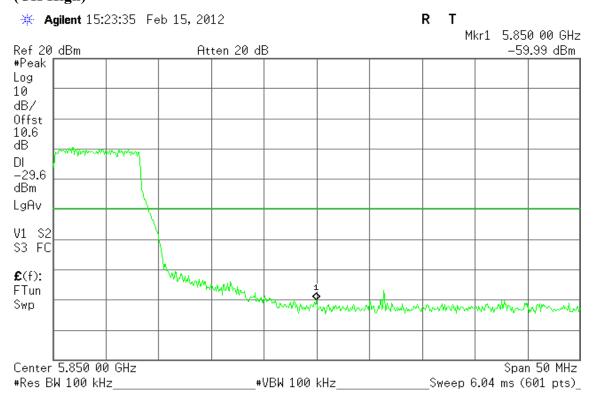
(CH Low)



(CH Mid)



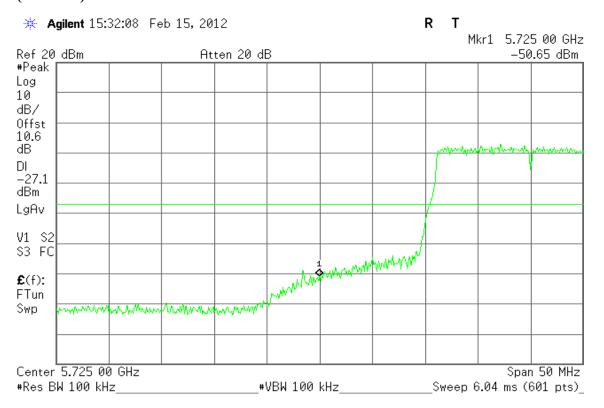
(CH High)



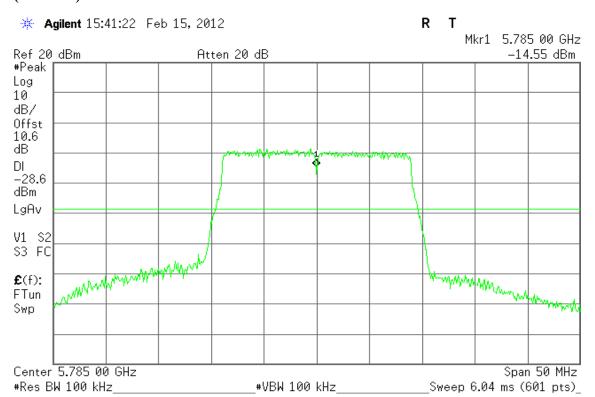
Report No.: T120201G02 -RP1

Test mode: IEEE 802.11n HT 20 MHz mode

(CH Low)

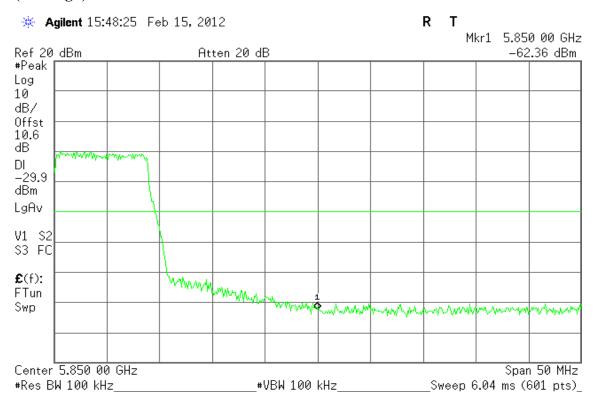


(CH Mid)



Report No.: T120201G02 -RP1

(CH High)



7.4 PEAK POWER SPECTRAL DENSITY

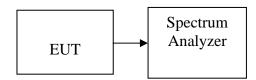
LIMIT

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.

Report No.: T120201G02 -RP1

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

Test Data

Test mode: IEEE 802.11b mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-15.36		PASS
Mid	2442	-17.71	8.00	PASS
High	2462	-18.79		PASS

Test mode: IEEE 802.11g mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-20.22		PASS
Mid	2442	-20.30	8.00	PASS
High	2462	-20.09		PASS

Test mode: IEEE 802.11n HT 20 MHz mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-14.59		PASS
Mid	2442	-20.36	8.00	PASS
High	2462	-14.95		PASS

Test mode: IEEE 802.11a mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	5745	-16.66		PASS
Mid	5785	-19.85	8.00	PASS
High	5825	-20.96		PASS

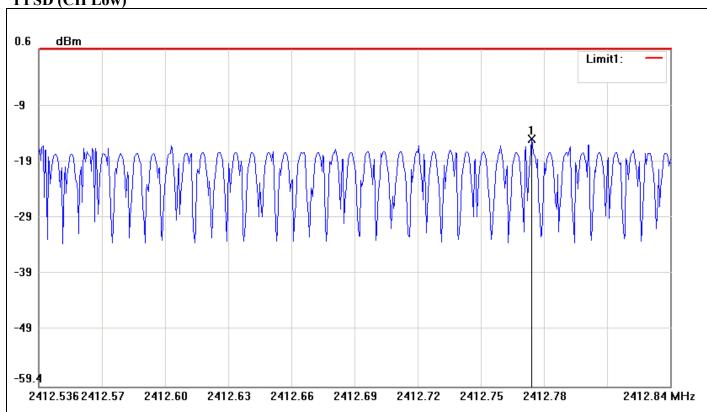
Test mode: IEEE 802.11n HT 20 MHz mode

1 cot model iede obzilin ill 20 mile mode					
Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result	
Low	5745	-52.29		PASS	
Mid	5785	-19.36	8.00	PASS	
High	5825	-20.80		PASS	

Test Plot

IEEE 802.11b mode

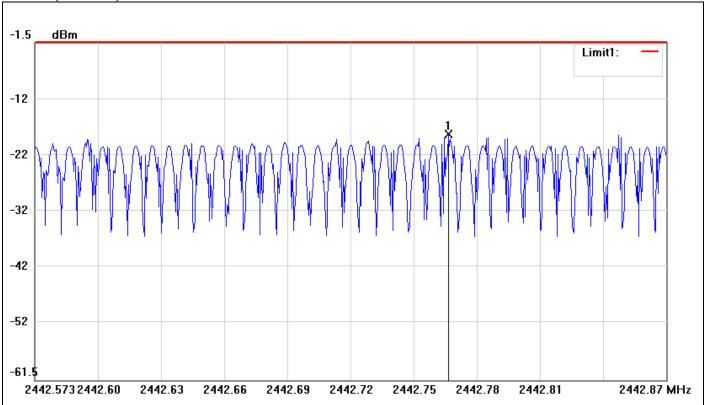
PPSD (CH Low)



No.	Frequency(MHz)	Level(dBm)	Limit(dBm)	Margin(dBm)
1	2412.7700	-15.36	8.00	-23.36

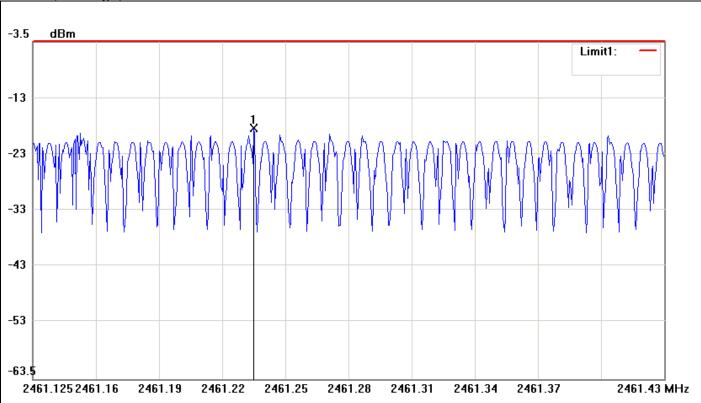


PPSD (CH Mid)



No.	Frequency(MHz)	Level(dBm)	Limit(dBm)	Margin(dBm)
1	2442.7699	-17.71	8.00	-25.71

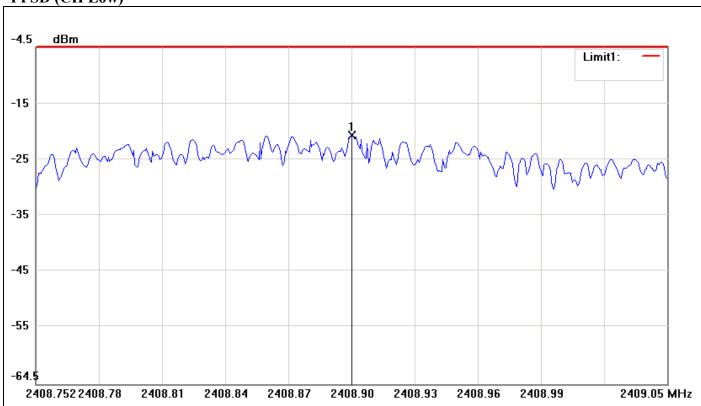
PPSD (CH High)



No. Frequency(MHz)		Level(dBm) Limit(dBm) M		Margin(dBm)
1 2461 2302		-18 79	8.00	-26.79

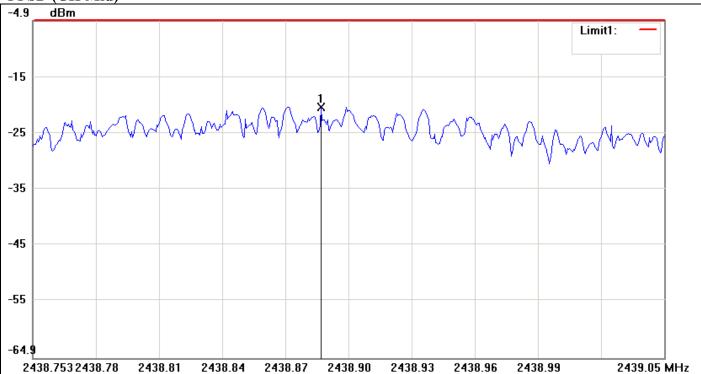
IEEE 802.11g mode

PPSD (CH Low)



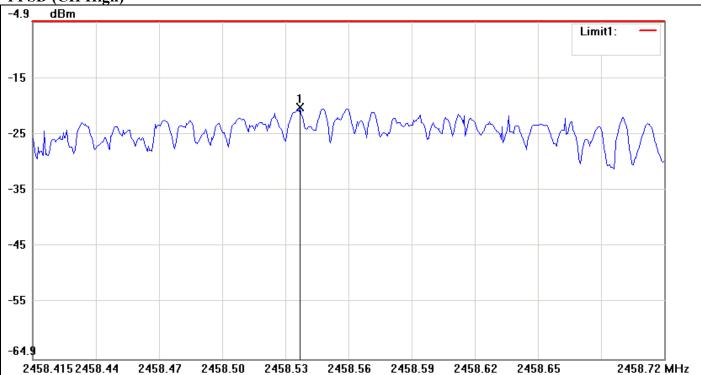
No.	Frequency(MHz)	Level(dBm)	Limit(dBm)	Margin(dBm)	
1	2408.9024	-20.22	8.00	-28.22	

PPSD (CH Mid)



No. Frequency(MHz)		Level(dBm) Limit(dBm)		Margin(dBm)	
1	2438.8899	-20.30	8.00	-28.30	

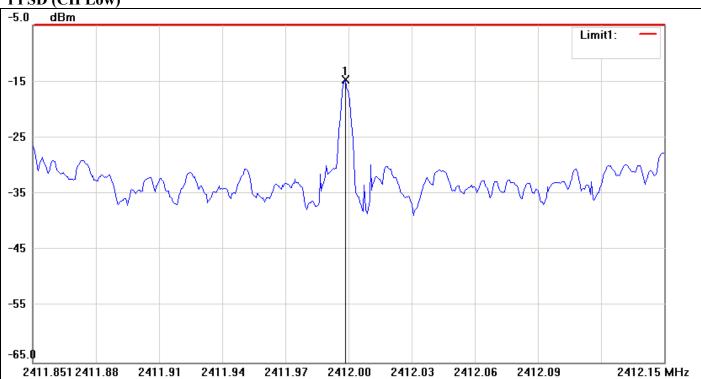
PPSD (CH High)



No. Frequency(MHz)		Level(dBm)	Limit(dBm)	Margin(dBm)	
1	2458.5417	-20.09	8.00	-28.09	

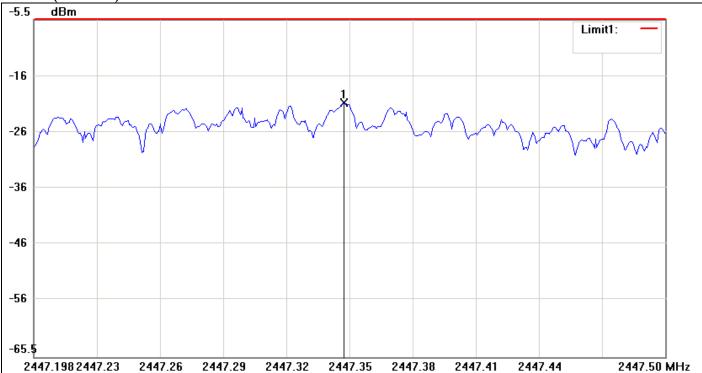
IEEE 802.11n HT 20 MHz mode

PPSD (CH Low)



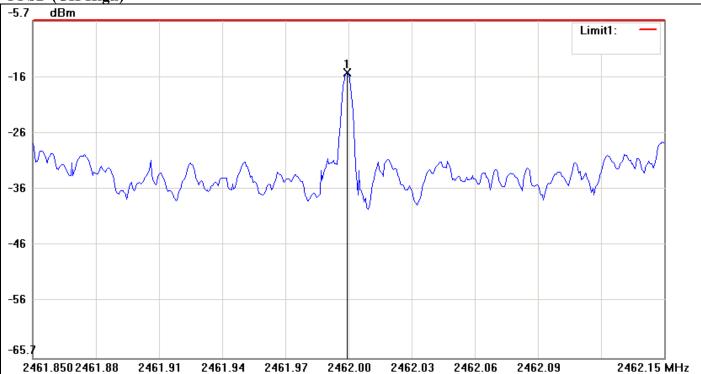
No. Frequency(MHz)		Level(dBm)	Limit(dBm)) Margin(dBm)	
1	2411.9990	-14.59	8.00	-22.59	

PPSD (CH Mid)



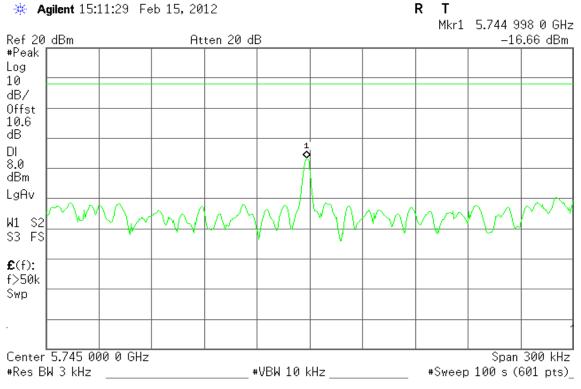
No.	Frequency(MHz)	Level(dBm)	Limit(dBm)	Margin(dBm)
1	2447.3460	-20.36	8.00	-28.36

PPSD (CH High)

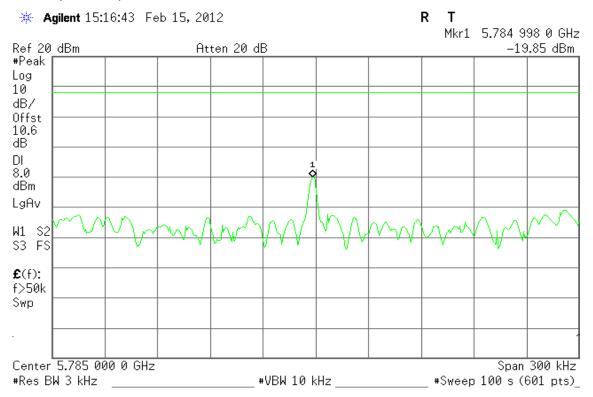


No.	No. Frequency(MHz)		Limit(dBm)	Margin(dBm)	
1	2461.9995	-14.95	8.00	-22.95	

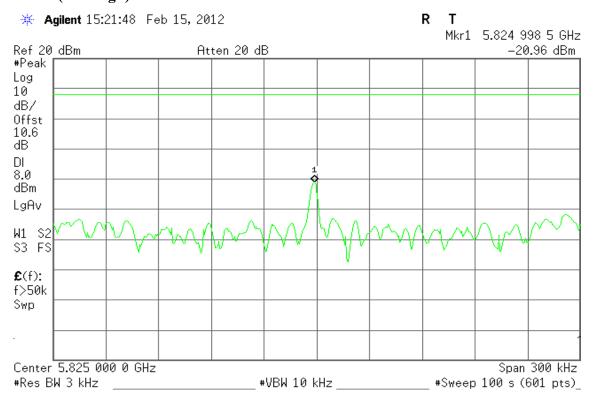
IEEE 802.11a mode PPSD (CH Low)



PPSD (CH Mid)



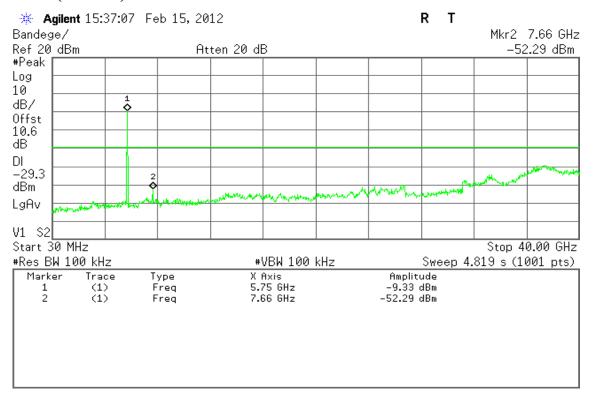
PPSD (CH High)



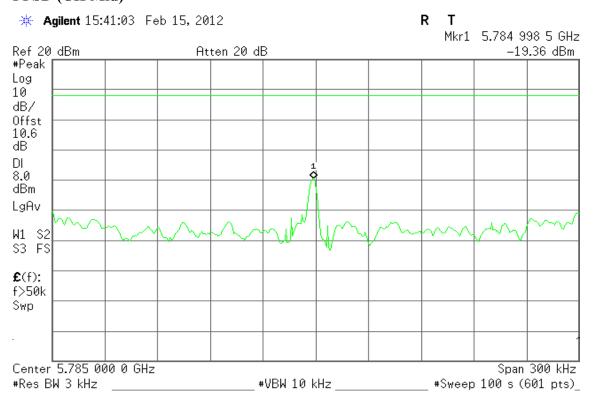
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IEEE 802.11n HT 20 MHz mode

PPSD (CH Low)

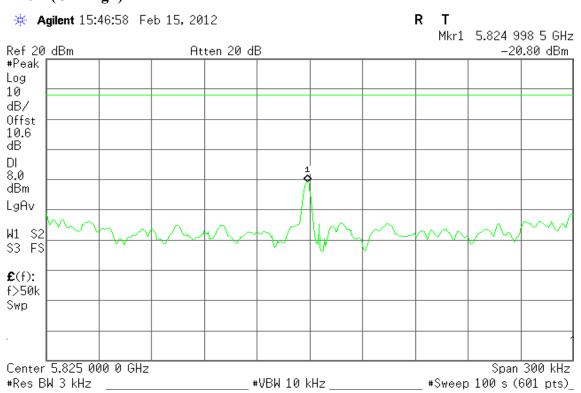


PPSD (CH Mid)



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PPSD (CH High)



7.5 SPURIOUS EMISSIONS

7.5.1 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:

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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

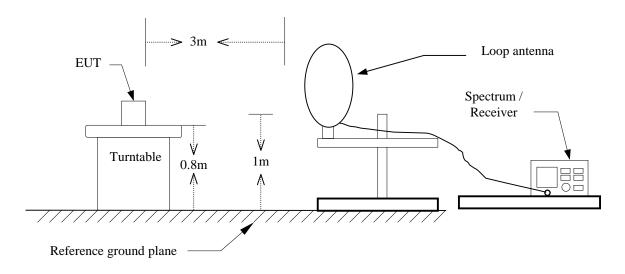
Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of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

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

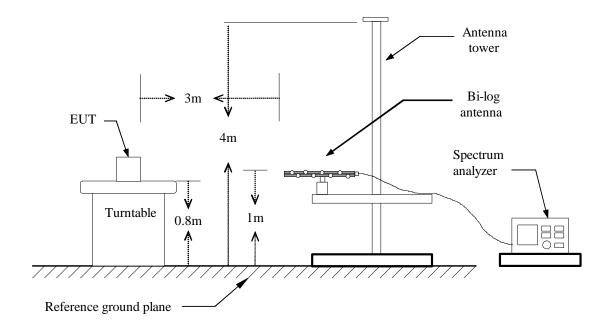
Frequency (MHz)	Field Strength (μV/m at 3-meter)	Field Strength (dBµV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Test Configuration

$9kHz \sim 30MHz$

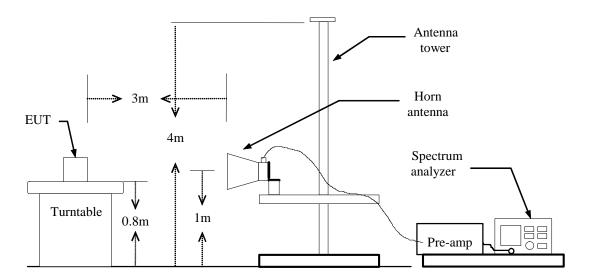


30MHz ~ **1 GHz**





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.

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- 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=1MHz / VBW=3Hz / Sweep=AUTO

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

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

Below 30 MHz

Operation Mode: Normal Link **Test Date:** March 8, 2012

Report No.: T120201G02 -RP1

Temperature:25°CTested by:Sehni HuHumidity:50% RHPolarity:Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
0.17	46.78	32.87	79.65	116.82	-37.17	Peak
0.21	45.66	31.54	77.19	113.99	-36.80	Peak
0.27	43.08	29.75	72.83	109.36	-36.53	Peak
0.36	40.34	28.22	68.56	103.29	-34.73	Peak
0.41	38.86	27.23	66.09	99.35	-33.27	Peak
0.46	37.28	26.32	63.61	95.77	-32.16	Peak
6.00	14.30	7.12	21.42	69.50	-48.08	Peak
9.44	10.60	6.32	16.92	69.50	-52.58	Peak
13.28	10.41	5.77	16.18	69.50	-53.32	Peak
17.46	7.51	5.47	12.98	69.50	-56.52	Peak
21.79	8.40	5.42	13.82	69.50	-55.68	Peak
27.93	9.32	6.10	15.41	69.50	-54.09	Peak

Remark:

- 1. Radiated emissions measured in frequency range from 9kHz ~ 30MHz were made with an instrument using peak/quasi-peak detector mode.
- 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. 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. 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.
- 5. $Margin(dB) = Remark\ result\ (dBuV/m) Quasi-peak\ limit\ (dBuV/m)$.

Below 1 GHz

Operation Mode: Normal Link Test Date: December 1, 2011

Report No.: T120201G02 -RP1

Temperature:25°CTested by:Sehni HuHumidity:50% RHPolarity:Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
41.32	47.26	-12.67	34.59	40.00	-5.41	Peak	V
78.50	43.24	-16.75	26.48	40.00	-13.52	Peak	V
384.05	31.94	-9.58	22.35	46.00	-23.65	Peak	V
479.43	35.01	-8.27	26.74	46.00	-19.26	Peak	V
527.93	32.48	-7.69	24.80	46.00	-21.20	Peak	V
799.53	31.70	-3.88	27.82	46.00	-18.18	Peak	V
191.67	43.20	-12.69	30.50	43.50	-13.00	Peak	Н
240.17	46.91	-13.10	33.81	46.00	-12.19	Peak	Н
299.98	41.68	-10.82	30.86	46.00	-15.14	Peak	Н
359.80	44.75	-9.99	34.76	46.00	-11.24	Peak	Н
419.62	54.41	-9.03	45.38	46.00	-0.62	QP	Н
799.53	40.07	-3.88	36.19	46.00	-9.81	Peak	Н

Remark:

- 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/quasi-peak detector mode.
- 3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak 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) Quasi-peak limit(dBuV/m).

Above 1 GHz

Operation Mode: Tx / IEEE 802.11b mode / CH Low Test Date: November 30, 2011

Report No.: T120201G02 -RP1

Temperature: 25°C **Tested by:** Sehni Hu **Humidity:** 50% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	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	Ant. Pol. (H/V)
2083.33	55.75		-5.25	50.49		74.00	54.00	-3.51	Peak	V
4825.00	52.22	49.34	2.61	54.83	51.95	74.00	54.00	-2.05	AVG	V
N/A										
1403.33	64.88	43.16	-10.65	54.23	32.51	74.00	54.00	-21.49	AVG	Н
4825.00	47.53	45.89	2.61	50.14	48.50	74.00	54.00	-5.50	AVG	Н
N/A										

- 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).

Operation Mode: Tx / IEEE 802.11b mode / CH Mid Test Date: November 30, 2011

Report No.: T120201G02 -RP1

Temperature:23°CTested by:Sehni HuHumidity:53% RHPolarity:Ver. / Hor.

Frequency (MHz)	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	Ant. Pol. (H/V)
2026.67	55.74		-5.40	50.34		74.00	54.00	-3.66	Peak	V
4883.33	49.77	47.27	2.73	52.50	50.00	74.00	54.00	-4.00	AVG	V
N/A										
1400.00	64.99	43.12	-10.65	54.33	32.47	74.00	54.00	-21.53	AVG	Н
4883.33	47.40	48.30	2.73	50.13	51.03	74.00	54.00	-2.97	AVG	Н
N/A										

- 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).

Operation Mode: Tx / IEEE 802.11b mode / CH High Test Date: November 30, 2011

Report No.: T120201G02 -RP1

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

Frequency (MHz)	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	Ant. Pol. (H/V)
1743.33	57.23		-8.08	49.15		74.00	54.00	-4.85	Peak	V
4925.00	53.17	47.81	2.81	55.98	50.62	74.00	54.00	-3.38	AVG	V
N/A										
1400.00	65.74	43.77	-10.65	55.09	33.12	74.00	54.00	-20.88	AVG	Н
4925.00	50.19	48.32	2.81	53.00	51.13	74.00	54.00	-2.87	AVG	Н
N/A										

- 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).

Operation Mode: Tx / IEEE 802.11g mode / CH Low Test Date: November 30, 2011

Report No.: T120201G02 -RP1

Temperature:23°CTested by:Sehni HuHumidity:53% RHPolarity:Ver. / Hor.

Frequency (MHz)	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	Ant. Pol. (H/V)
1833.33	55.87		-7.16	48.70		74.00	54.00	-5.30	Peak	V
4825.00	47.67		2.61	50.28		74.00	54.00	-3.72	Peak	V
N/A										
1400.00	65.66	43.07	-10.65	55.01	32.42	74.00	54.00	-21.58	AVG	Н
N/A										

- 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).

Operation Mode: Tx / IEEE 802.11g mode/ CH Mid Test Date: November 30, 2011

Report No.: T120201G02 -RP1

Temperature:23°CTested by:Sehni HuHumidity:53% RHPolarity:Ver. / Hor.

Frequency (MHz)	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	Ant. Pol. (H/V)
2356.67	56.42		-4.46	51.96		74.00	54.00	-2.04	Peak	V
N/A										
1400.00	65.23	43.28	-10.65	54.58	32.63	74.00	54.00	-21.37	AVG	Н
N/A										

- 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).

Operation Mode: Tx / IEEE 802.11g mode/ CH High Test Date: November 30, 2011

Report No.: T120201G02 -RP1

Temperature:23°CTested by:Sehni HuHumidity:53% RHPolarity:Ver. / Hor.

Frequency (MHz)	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	Ant. Pol. (H/V)
1953.33	55.33		-5.94	49.39		74.00	54.00	-4.61	Peak	V
N/A										
1400.00	65.60	43.01	-10.65	54.94	32.36	74.00	54.00	-21.64	AVG	Н
4600.00	48.68		2.16	50.84		74.00	54.00	-3.16	Peak	Н
N/A										

- 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).

Operation Mode: TX / IEEE 802.11n HT 20 MHz mode / CH Low Test Date: November 30, 2011

Report No.: T120201G02 -RP1

Temperature: 23°C Tested by: Sehni Hu
Humidity: 53% RH Polarity: Ver. / Hor.

Frequency (MHz)	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	Ant. Pol. (H/V)
1973.33	55.30		-5.74	49.56		74.00	54.00	-4.44	Peak	V
N/A										
		I	I					I	1	
1400.00	65.92	43.24	-10.65	55.27	32.59	74.00	54.00	-21.41	AVG	Н
N/A										

- 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).

Operation Mode: TX / IEEE 802.11n HT 20 MHz mode / CH Mid Test Date: November 30, 2011

Report No.: T120201G02 -RP1

Temperature: 23°C Tested by: Sehni Hu
Humidity: 53% RH Polarity: Ver. / Hor.

Frequency (MHz)	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	Ant. Pol. (H/V)
1500.00	57.18		-10.55	46.63		74.00	54.00	-7.37	Peak	V
4883.33	48.31		2.73	51.04		74.00	54.00	-2.96	Peak	V
N/A										
			I		<u> </u>				1	
1400.00	64.85	43.24	-10.65	54.20	32.59	74.00	54.00	-21.41	AVG	Н
N/A										

- 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).

Operation Mode: TX / IEEE 802.11n HT 20 MHz mode / CH High Test Date: November 30, 2011

Report No.: T120201G02 -RP1

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

Frequency (MHz)	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	Ant. Pol. (H/V)
1946.67	56.40		-6.01	50.39		74.00	54.00	-3.61	Peak	V
N/A										
					l .	l .	l .		l	
1400.00	65.64	43.21	-10.65	54.98	32.56	74.00	54.00	-21.44	AVG	Н
N/A										

- 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).

Operation Mode: Tx / IEEE 802.11a mode/ CH Low **Test Date:** November 30, 2011

Report No.: T120201G02 -RP1

Temperature:23°CTested by:Sehni HuHumidity:53% RHPolarity:Ver. / Hor.

Frequency (MHz)	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	Ant. Pol. (H/V)
1933.33	55.27		-6.15	49.12		74.00	54.00	-4.88	Peak	V
N/A										
1396.67	61.30		-10.66	50.64		74.00	54.00	-3.36	Peak	Н
N/A										

- 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).

Operation Mode: Tx / IEEE 802.11a mode/ CH Mid **Test Date:** November 30, 2011

Report No.: T120201G02 -RP1

Temperature:23°CTested by:Sehni HuHumidity:53% RHPolarity:Ver. / Hor.

Frequency (MHz)	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	Ant. Pol. (H/V)
1980.00	55.49		-5.67	49.81		74.00	54.00	-4.19	Peak	V
N/A										
1396.67	64.17	43.14	-10.66	53.51	32.48	74.00	54.00	-21.52	AVG	Н
N/A										

- 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).

Operation Mode: Tx / IEEE 802.11a mode/ CH High **Test Date:** November 30, 2011

Report No.: T120201G02 -RP1

Temperature:23°CTested by:Sehni HuHumidity:53% RHPolarity:Ver. / Hor.

Frequency (MHz)	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	Ant. Pol. (H/V)
2236.67	55.08		-4.85	50.22		74.00	54.00	-3.78	Peak	V
N/A										
1396.67	61.93	43.34	-10.66	51.27	32.68	74.00	54.00	-21.32	AVG	Н
N/A	01.70	.0.0	10.00	01.27	02.00	,	200	21.02	11, 0	

- 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).

Operation Mode: TX / IEEE 802.11n HT 20 MHz mode / CH Low Test Date: November 30, 2011

Report No.: T120201G02 -RP1

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

Frequency (MHz)	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	Ant. Pol. (H/V)
2213.33	55.57		-4.92	50.65		74.00	54.00	-3.35	Peak	V
N/A										
12066	<1.21		10.55			74.00	7 4.00	2.15		**
1396.67	61.21		-10.66	50.55		74.00	54.00	-3.45	Peak	Н
N/A										

- 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).

Operation Mode: TX / IEEE 802.11n HT 20 MHz mode / CH Mid Test Date: November 30, 2011

Report No.: T120201G02 -RP1

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

Frequency (MHz)	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	Ant. Pol. (H/V)
2551.67	54.06		-3.69	50.37		74.00	54.00	-3.63	Peak	V
N/A										
1396.67	65.15	42.31	-10.66	54.49	31.65	74.00	54.00	-22.35	AVG	Н
N/A										

- 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).

Operation Mode: TX / IEEE 802.11n HT 20 MHz mode / CH High Test Date: November 30, 2011

Report No.: T120201G02 -RP1

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

Frequency (MHz)	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	Ant. Pol. (H/V)
2446.67	54.70		-4.09	50.61		74.00	54.00	-3.39	Peak	V
N/A										
									l	
1396.67	59.64		-10.66	48.99		74.00	54.00	-5.01	Peak	Н
N/A										

- 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).

7.6 POWERLINE CONDUCTED EMISSIONS

LIMIT

According to §15.207(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 $\mu\text{H}/50$ 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.

Report No.: T120201G02 -RP1

Frequency Range (MHz)	Limits (dBµV)					
(NIIIZ)	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				

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

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.

Report No.: T120201G02 -RP1

Test Data

Operation Mode: Normal Link **Test Date:** February 16, 2012

Temperature: 26°C **Tested by:** Chester Tsai

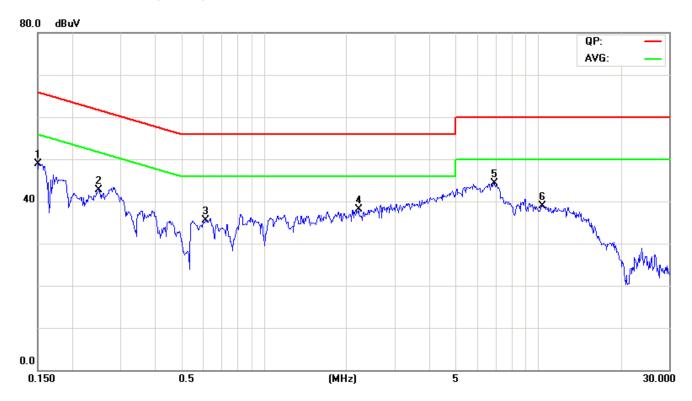
Humidity: 60% RH

Freq. (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
0.1507	48.78	48.78	0.09	48.87	48.87	65.96	55.96	-17.09	-7.09	L1
0.2508	42.68	42.68	0.09	42.77	42.77	61.73	51.73	-18.96	-8.96	L1
0.6201	32.84	22.73	0.10	32.94	22.83	56.00	46.00	-23.06	-23.17	L1
2.2357	33.18	23.84	0.15	33.33	23.99	56.00	46.00	-22.67	-22.01	L1
6.8900	38.62	30.00	0.30	38.92	30.30	60.00	50.00	-21.08	-19.70	L1
10.3140	33.95	25.88	0.42	34.37	26.30	60.00	50.00	-25.63	-23.70	L1
0.1558	46.31	30.12	0.09	46.40	30.21	65.68	55.68	-19.28	-25.47	L2
0.3215	39.02	27.91	0.09	39.11	28.00	59.67	49.67	-20.56	-21.67	L2
1.1077	33.49	20.94	0.10	33.59	21.04	56.00	46.00	-22.41	-24.96	L2
4.2698	34.17	24.97	0.18	34.35	25.15	56.00	46.00	-21.65	-20.85	L2
5.9676	36.17	26.68	0.22	36.39	26.90	60.00	50.00	-23.61	-23.10	L2
24.0011	30.63	26.42	0.65	31.28	27.07	60.00	50.00	-28.72	-22.93	L2

- 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. $L1 = Line \ One \ (Live \ Line) / L2 = Line \ Two \ (Neutral \ Line)$

Test Plots

Conducted emissions (Line 1)



Conducted emissions (Line 2)

