

FCC 47 CFR PART 15 SUBPART C

Product Type : NovoConnect A Wireless Presentation & Conference System

Applicant : Delta Electronics Incorporated

Address : 3 Tungyuan Road, Chungli Industrial Zone, Taoyuan County
32063 Taiwan

Trade Name : DELTA, VIVITEK

Model Number : B360

Test Specification : FCC 47 CFR PART 15 SUBPART C: Oct., 2012
ANSI C63.4:2009

Receive Date : Sep. 14, 2013

Test Period : Sep. 23 ~ Oct. 03, 2013

Issue Date : Nov. 13, 2013

Issue by

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Taiwan Accreditation Foundation accreditation number: 1330

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Revision History

Rev.	Issue Date	Revisions	Revised By
00	Nov. 13, 2013	Initial Issue	

Verification of Compliance

Issued Date: 11/13/2013

Product Type : NovoConnect A Wireless Presentation & Conference System
Applicant : Delta Electronics Incorporated
Address : 3 Tungyuan Road, Chungli Industrial Zone, Taoyuan County
32063 Taiwan
Trade Name : DELTA, VIVITEK
Model Number : B360
FCC ID : H79ESS1310
EUT Rated Voltage : DC 5V, 2.0A
Test Voltage : 120 Vac / 60 Hz
Applicable Standard : FCC 47 CFR PART 15 SUBPART C: Oct., 2012
ANSI C63.4:2009

Test Result : Complied

Performing Lab. : A Test Lab Techno Corp.
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Taiwan Accreditation Foundation accreditation number: 1330
<http://www.atl-lab.com.tw/e-index.htm>



The above equipment was tested by A Test Lab Techno Corp. 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: 2009 and the energy emitted by the sample 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 identified in this report.

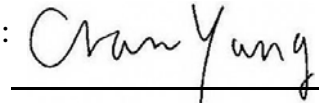
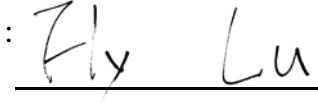
Approved By :  Reviewed By : 
(Manager) (Cran Yang) (Testing Engineer) (Fly Lu)

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1 General Information

1.1 Summary of Test Result

Standard		Item	Result	Remark
15.247	RSS-GEN			
15.207	7.2.2	AC Power Conducted Emission	PASS	-----
Standard		Item	Result	Remark
15.247	RSS-210			
15.247(d)	A8.5	Transmitter Radiated Emissions	PASS	-----
15.247(b)(3)	A8.4	Max. Output Power	PASS	-----
15.247(a)(2)	A8.2 (a)	6dB RF Bandwidth	PASS	-----
15.247(e)	A8.2 (b)	Power Spectral Density	PASS	-----
15.247(c)	A8.5	Out of Band Conducted Spurious Emission	PASS	-----
15.247(d)	A8.5	Band Edge Measurement	PASS	-----
15.247(c)	A8.5	Occupied Bandwidth Measurement	PASS	-----
15.203	-	Antenna Requirement	PASS	-----

The test results of this report relate only to the tested sample(s) identified in this report. Manufacturer or whom it may concern should recognize the pass or fail of the test result.

1.2 Measurement Uncertainty

Test Item	Frequency Range		Uncertainty (dB)
Conducted Emission	9kHz ~ 30MHz		± 2.02
Radiated Emission	30MHz ~ 1000MHz	Horizontal	± 3.98
		Vertical	± 3.62
	1000MHz ~ 18000MHz	Horizontal	± 3.11
		Vertical	± 3.07
	18000MHz ~ 40000MHz	Horizontal	± 3.66
		Vertical	± 3.54

2 EUT Description

Product	NovoConnect A Wireless Presentation & Conference System
Trade Name	DELTA, VIVITEK
Model No.	B360
Applicant	Delta Electronics Incorporated 3 Tungyuan Road, Chungli Industrial Zone, Taoyuan County 32063 Taiwan
Manufacturer	AMPAK Technology NO.1 Jen Ai Road, Hsinchu Industrial Park, Hukou, HsinChu, Taiwan
FCC ID	H79ESS1310
Frequency Range	IEEE 802.11b / 802.11g / 802.11n 2.4GHz 20MHz: 2412 ~ 2462 MHz IEEE 802.11a / IEEE 802.11n 5 GHz U-NII Band IV: 5745 ~ 5825 MHz
Modulation Type	IEEE 802.11b:DSSS IEEE 802.11g:DSSS + OFDM IEEE 802.11n 2.4GHz / IEEE 802.11a / IEEE 802.11n 5 GHz U-NII Band IV: OFDM
Antenna Type	Chip Antenna
Antenna Gain	2.4GHz: 1.78594 dBi, 5GHz: 3.74794 dBi
RF Output Power	IEEE 802.11b: 0.069 W / 18.36 dBm IEEE 802.11g: 0.225 W / 23.52 dBm IEEE 802.11n 2.4GHz 20MHz: 0.187 W / 22.71 dBm IEEE 802.11a U-NII Band IV: 0.110 W / 20.43 dBm IEEE 802.11n U-NII Band IV 20MHz: 0.108 W / 20.35 dBm
99 % Occupied Bandwidth	IEEE 802.11b: 12.03 MHz IEEE 802.11g: 16.28 MHz IEEE 802.11n 2.4GHz 20MHz: 17.43 MHz IEEE 802.11a U-NII Band IV: 16.43 MHz IEEE 802.11n U-NII Band IV 20MHz: 17.50 MHz

Emission Designator	IEEE 802.11b: 12M0G1D IEEE 802.11g: 16M3G1D IEEE 802.11n 2.4GHz 20MHz: 17M4G1D IEEE 802.11a U-NII Band IV: 16M4G1D IEEE 802.11n U-NII Band IV 20MHz: 17M5G1D
Component	
Power Adapter	Shenzhen SOY Technology Co., Ltd., SUN-0500200 Input:100-240Vac, 50/60Hz, 0.3A Output: 5Vdc, 2.0A Cable out: Shielded, 1.5 m Detachable at Power Adaptor

3 Test Methodology

3.1. Mode of Operation

Decision of Test ATL has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Normal Operation Mode
Mode 2: IEEE 802.11b Link Mode
Mode 3: IEEE 802.11g Link Mode
Mode 4: IEEE 802.11n 2.4GHz 20MHz Link Mode
Mode 5: IEEE 802.11a U-NII Band IV Link Mode
Mode 6: IEEE 802.11n U-NII Band IV 20MHz Link Mode

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

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

IEEE 802.11b mode

Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High (2462MHz) with 1Mbps data rate were chosen for full testing.

IEEE 802.11g mode

Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High (2462MHz) with 6Mbps data rate were chosen for full testing.

IEEE 802.11n 2.4GHz 20MHz mode

Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High (2462MHz) with 6.5Mbps data rate were chosen for full testing.

IEEE 802.11a mode / 5745 ~ 5825MHz

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

IEEE 802.11n U-NII Band IV 20MHz mode / 5745 ~ 5825MHz

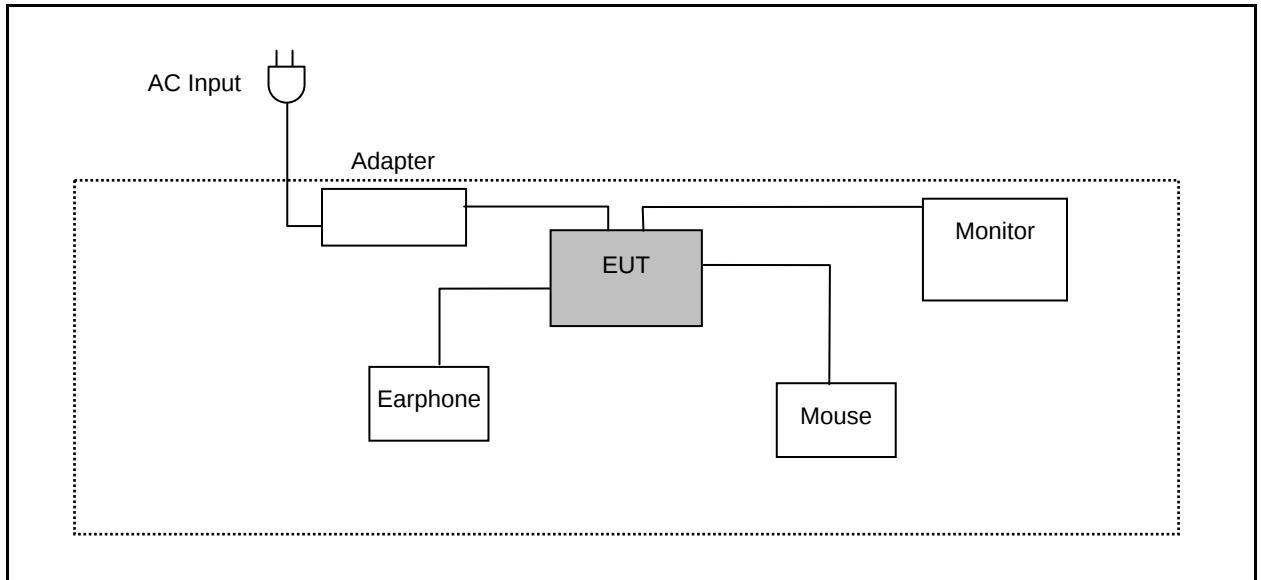
Channel Low (5745MHz), Channel Mid (5785MHz) and Channel High (5825MHz) with 6.5Mbps data rate were chosen for full testing.

3.2. EUT Exercise Software

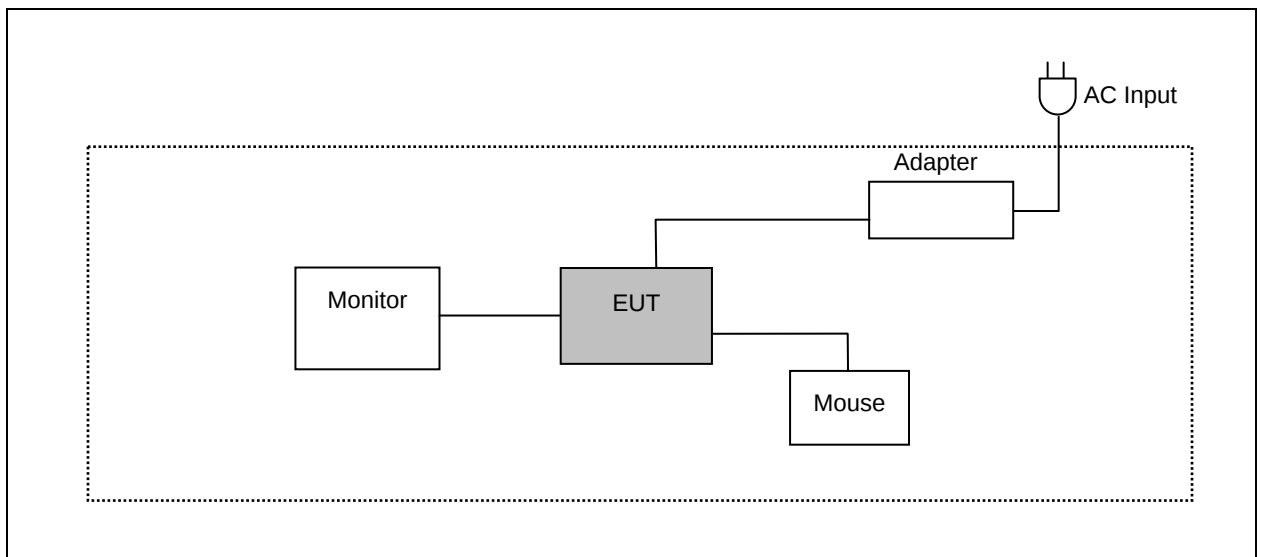
1.	Setup the EUT shown on 3.3.
2.	Turn on the power of all equipment.
3.	The EUT link to Notebook with AP.
4.	The EUT will start to operate function.
5.	Start to test.

3.3. Configuration of Test System Details

Conducted Emissions



Radiated Emissions



3.4. Test Site Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	26
Humidity (%RH)	25-75	60
Barometric pressure (mbar)	860-1060	950

4 Conducted Emission Measurement

4.1. Limit

Frequency (MHz)	Quasi-peak	Average
0.15 - 0.5	66 to 56	56 to 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

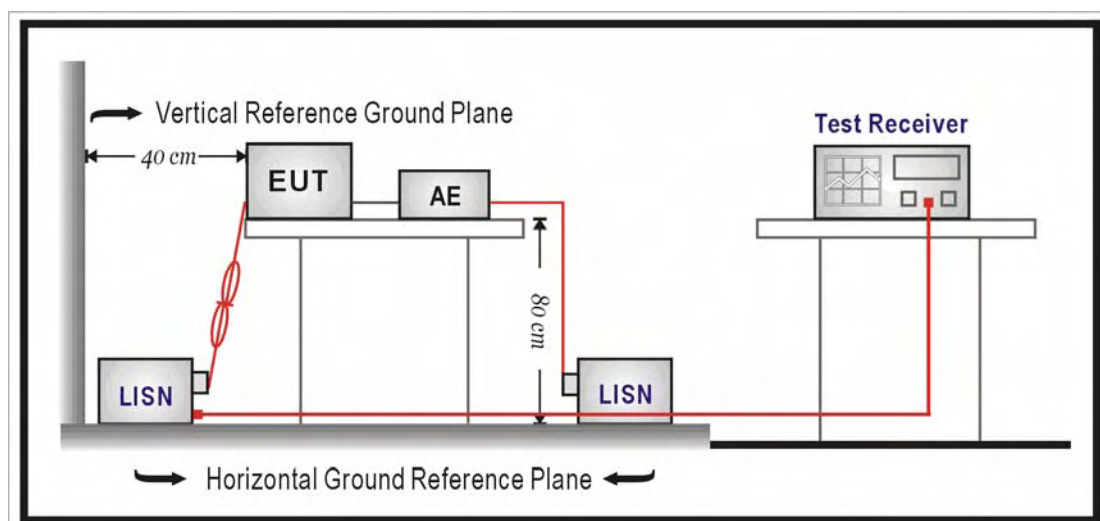
4.2. Test Instruments

Describe	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Test Receiver	R&S	ESCI	100367	06/06/2013	(1)
LISN	R&S	ENV216	101040	03/04/2013	(1)
LISN	R&S	ENV216	101041	03/04/2013	(1)
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years. (3) Calibration period 3 years.

Note: N.C.R. = No Calibration Request.

4.3. Test Setup



4.4. Test Procedure

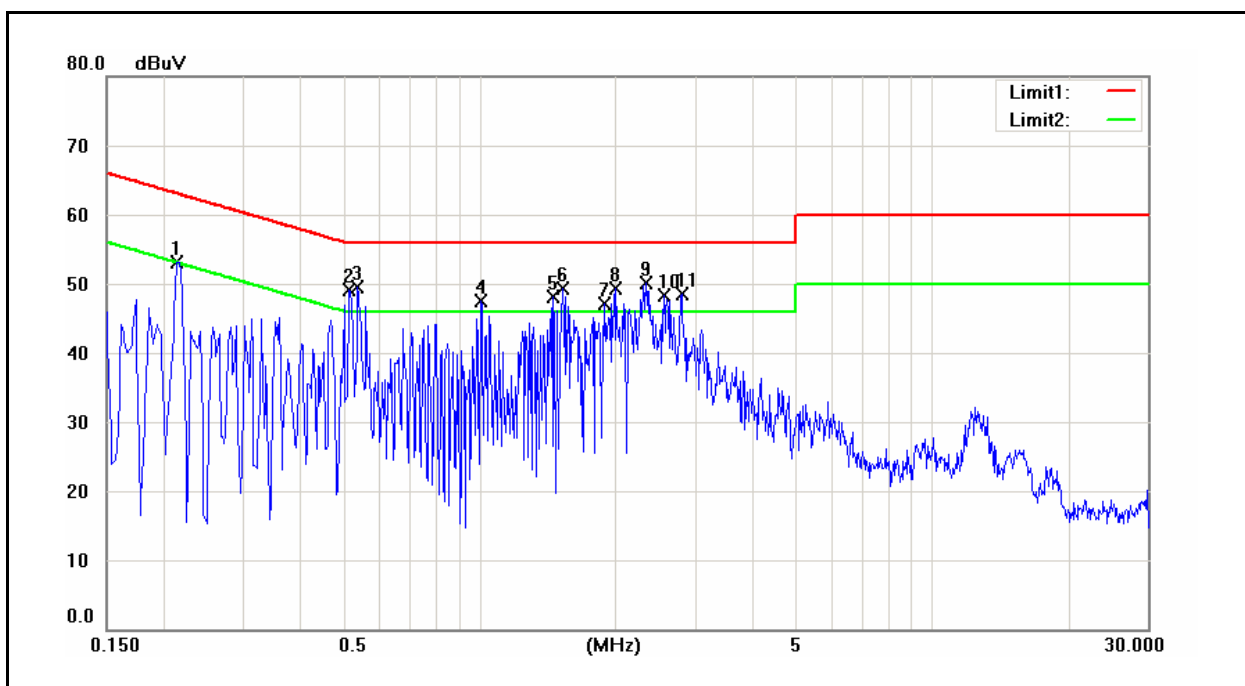
The power line conducted emission measurements were performed in a shielded enclosure. The EUT was assembled on a wooden table which is 80 centimeters high, was placed 40 centimeters from the back wall and at least 1 meter from the sidewall.

Power was fed to the EUT from the public utility power grid through a line filter and EMCO Model 3162/2 SH Line Impedance Stabilization Networks (LISN). The LISN housing, measuring instrumentation case, ground plane, etc., were electrically bonded together at the same RF potential. The Spectrum analyzer was connected to the AC line through an isolation transformer. The 50-ohm output of the LISN was connected to the spectrum analyzer directly. Conducted emission levels were in the CISPR quasi-peak detection mode. The analyzer's 6 dB bandwidth was set to 9 KHz. No post-detector video filter was used.

The spectrum was scanned from 150 KHz to 30 MHz. The physical arrangement of the test system and associated cabling was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude and frequency. All spurious emission frequencies were observed. The highest emission amplitudes relative to the appropriate limit were measured and have been recorded in paragraph 4.1.

4.5. Test Result

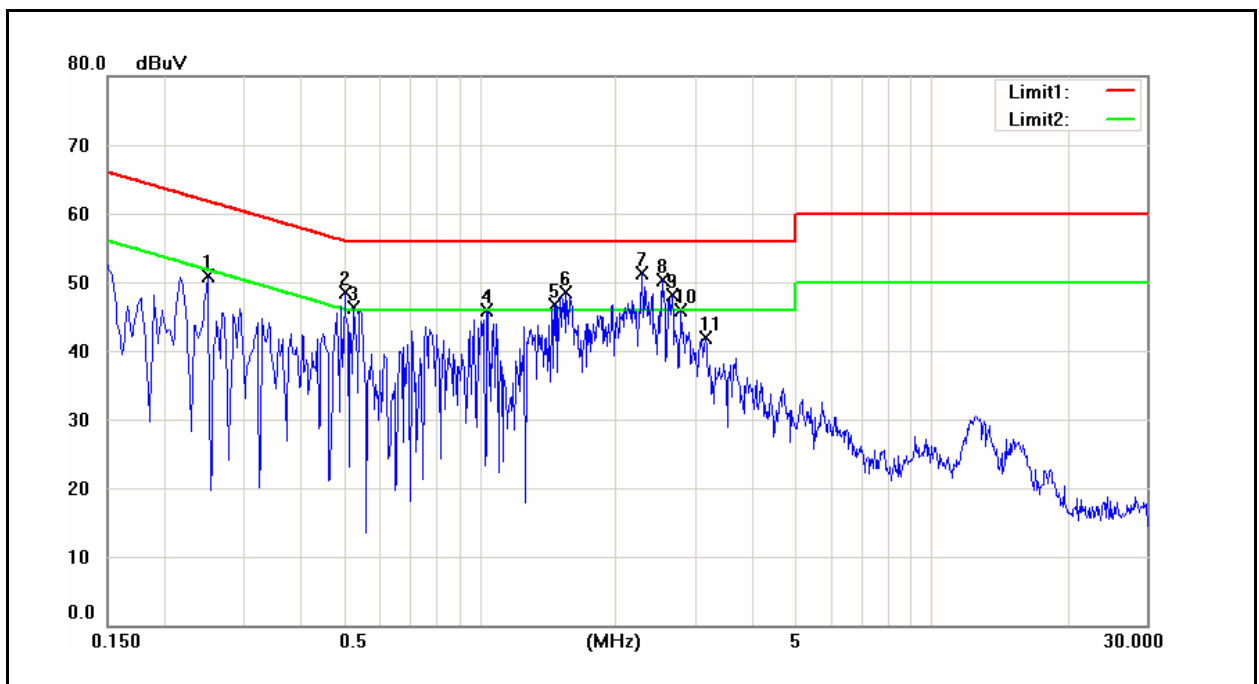
Standard:	FCC Part 15C	Line:	L1
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model Number:	B360	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	1	Date:	09/23/2013
		Test By:	Fly Lu
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.2140	37.76	20.96	9.62	47.38	30.58	63.05	53.05	-15.67	-22.47	Pass
2	0.5140	36.81	23.25	9.62	46.43	32.87	56.00	46.00	-9.57	-13.13	Pass
3	0.5380	36.84	22.55	9.62	46.46	32.17	56.00	46.00	-9.54	-13.83	Pass
4	1.0100	33.55	19.26	9.67	43.22	28.93	56.00	46.00	-12.78	-17.07	Pass
5	1.4620	33.93	23.04	9.68	43.61	32.72	56.00	46.00	-12.39	-13.28	Pass
6	1.5340	35.56	21.42	9.68	45.24	31.10	56.00	46.00	-10.76	-14.90	Pass
7	1.8940	31.79	20.81	9.70	41.49	30.51	56.00	46.00	-14.51	-15.49	Pass
8	2.0060	33.20	19.68	9.70	42.90	29.38	56.00	46.00	-13.10	-16.62	Pass
9	2.3380	35.17	22.44	9.71	44.88	32.15	56.00	46.00	-11.12	-13.85	Pass
10	2.5660	35.10	22.25	9.72	44.82	31.97	56.00	46.00	-11.18	-14.03	Pass
11	2.7980	29.86	15.76	9.73	39.59	25.49	56.00	46.00	-16.41	-20.51	Pass

Standard:	FCC Part 15C	Line:	N
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model Number:	B360	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	1	Date:	09/23/2013
		Test By:	Fly Lu

Description:



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.2500	21.84	5.24	9.63	31.47	14.87	61.76	51.76	-30.29	-36.89	Pass
2	0.5020	30.91	10.53	9.63	40.54	20.16	56.00	46.00	-15.46	-25.84	Pass
3	0.5260	30.56	11.00	9.63	40.19	20.63	56.00	46.00	-15.81	-25.37	Pass
4	1.0420	29.93	17.25	9.66	39.59	26.91	56.00	46.00	-16.41	-19.09	Pass
5	1.4700	34.07	18.59	9.67	43.74	28.26	56.00	46.00	-12.26	-17.74	Pass
6	1.5540	34.16	21.55	9.68	43.84	31.23	56.00	46.00	-12.16	-14.77	Pass
7	2.2900	33.08	15.69	9.71	42.79	25.40	56.00	46.00	-13.21	-20.60	Pass
8	2.5500	31.49	15.80	9.72	41.21	25.52	56.00	46.00	-14.79	-20.48	Pass
9	2.6660	31.72	18.40	9.72	41.44	28.12	56.00	46.00	-14.56	-17.88	Pass
10	2.7860	26.70	11.64	9.73	36.43	21.37	56.00	46.00	-19.57	-24.63	Pass
11	3.1580	25.78	11.43	9.73	35.51	21.16	56.00	46.00	-20.49	-24.84	Pass

5 Radiated Emission Measurement

5.1. Limit

According to §15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$ at meter)	Measurement Distance (meters)
0.009 – 0.490	2400 / F (kHz)	300
0.490 – 1.705	24000 / F (kHz)	30
1.705 – 30.0	30	30
30 - 88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

** 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.

5.2. Test Instruments

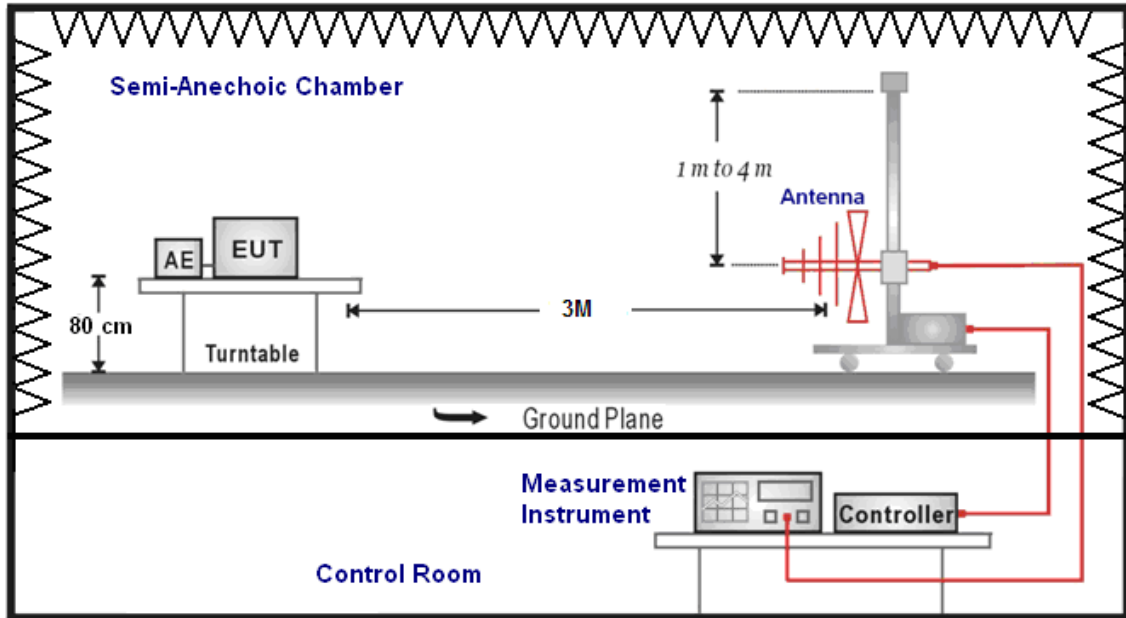
3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/21/2013	(1)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/21/2013	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/21/2013	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/21/2013	(1)
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	07/16/2013	(1)
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/10/2013	(1)
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	06/13/2013	(1)
Loop Antenna	COM-POWER CORPORATION	AL-130	121014	08/14/2012	(3)
Test Site	ATL	TE01	888001	08/27/2013	(1)

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years. (3) Calibration period 3 years.

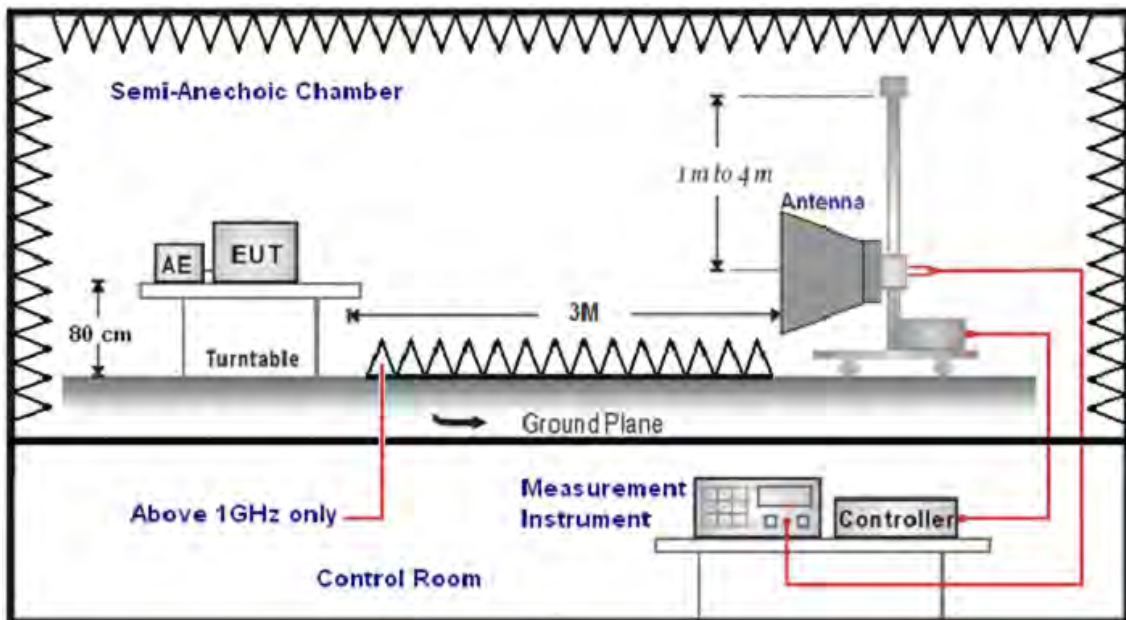
Note: N.C.R. = No Calibration Request.

5.3. Setup

Below 1GHz



Above 1GHz



5.4. Test Procedure

Final radiation measurements were made on a three-meter, Semi Anechoic Chamber. The EUT system was placed on a nonconductive turntable which is 0.8 meters height, top surface 1.0 x 1.5 meter. The spectrum was examined from 250 MHz to 2.5 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously & Measurements spectrum range from 9 kHz to 26.5 GHz is investigated.

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

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

A nonconductive material surrounded the EUT to supporting the EUT for standing on three orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

SCHWARZBECK MESS-ELEKTRONIK Biconilog Antenna (model VULB9163) at 3 Meter and the SCHWARZBECK Double Ridged Guide Antenna (model BBHA9120D&9170) was used in frequencies 1 – 26.5 GHz at a distance of 1 meter. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20dB/decade).

For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dBuV) into field intensity in micro volts per meter (uV/m).

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

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

(1) $\text{Amplitude (dBuV/m)} = \text{FI (dBuV)} + \text{AF (dBuV)} + \text{CL (dBuV)} - \text{Gain (dB)}$

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

(2) $\text{Actual Amplitude (dBuV/m)} = \text{Amplitude (dBuV)} - \text{Dis(dB)}$

The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:

(a) For fundamental frequency : Transmitter Output < +30dBm

(b) For spurious frequency : Spurious emission limits = fundamental emission limit /10

Data of measurement within this frequency range without mark 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.

5.5. Test Result

Below 1GHz

Standard:		FCC Part 15C		Test Distance:		3m	
Test item:		Radiated Emission		Power:		AC 120V/60Hz	
Model Number:		B360		Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Mode:		1		Date:		09/24/2013	
				Test By:		Fly Lu	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
146.5000	47.70	-17.28	30.42	43.50	-13.08	QP	H
270.0000	46.31	-11.57	34.74	46.00	-11.26	QP	H
462.0000	44.03	-7.66	36.37	46.00	-9.63	QP	H
536.5000	43.46	-6.61	36.85	46.00	-9.15	QP	H
741.5000	32.69	-2.69	30.00	46.00	-16.00	QP	H
923.5000	36.01	0.75	36.76	46.00	-9.24	QP	H
200.5000	42.52	-13.91	28.61	43.50	-14.89	QP	V
400.0000	43.75	-8.60	35.15	46.00	-10.85	QP	V
462.0000	45.28	-7.66	37.62	46.00	-8.38	QP	V
536.5000	45.76	-6.61	39.15	46.00	-6.85	QP	V
672.0000	39.83	-3.92	35.91	46.00	-10.09	QP	V
951.5000	37.73	1.04	38.77	46.00	-7.23	QP	V

Note: No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).

Above 1GHz

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	B360			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	2			Date:	09/25/2013		
Frequency:	2412MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3079.000	36.80	6.08	42.88	74.00	-31.12	peak	H
4577.000	36.09	11.07	47.16	74.00	-26.84	peak	H
6243.000	33.08	16.63	49.71	74.00	-24.29	peak	H
3051.000	37.25	6.02	43.27	74.00	-30.73	peak	V
4563.000	34.96	11.05	46.01	74.00	-27.99	peak	V
6383.000	32.39	17.06	49.45	74.00	-24.55	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	B360			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	2			Date:	09/25/2013		
Frequency:	2437MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3191.000	37.39	6.33	43.72	74.00	-30.28	peak	H
4563.000	35.07	11.05	46.12	74.00	-27.88	peak	H
6187.000	33.90	16.45	50.35	74.00	-23.65	peak	H
2953.000	35.44	5.79	41.23	74.00	-32.77	peak	V
4591.000	34.79	11.11	45.90	74.00	-28.10	peak	V
6362.000	32.28	16.99	49.27	74.00	-24.73	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	B360			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	2			Date:	09/25/2013		
Frequency:	2462MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3079.000	37.39	6.08	43.47	74.00	-30.53	peak	H
4549.000	34.62	11.01	45.63	74.00	-28.37	peak	H
6383.000	32.49	17.06	49.55	74.00	-24.45	peak	H
2911.000	37.04	5.68	42.72	74.00	-31.28	peak	V
4535.000	34.53	10.97	45.50	74.00	-28.50	peak	V
6418.000	32.30	17.16	49.46	74.00	-24.54	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	B360			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	3			Date:	09/25/2013		
Frequency:	2412MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2953.000	37.02	5.79	42.81	74.00	-31.19	peak	H
4563.000	33.95	11.05	45.00	74.00	-29.00	peak	H
6341.000	32.14	16.92	49.06	74.00	-24.94	peak	H
3009.000	36.31	5.93	42.24	74.00	-31.76	peak	V
4563.000	33.95	11.05	45.00	74.00	-29.00	peak	V
6369.000	32.72	17.00	49.72	74.00	-24.28	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	B360			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	3			Date:	09/25/2013		
Frequency:	2437MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2939.000	35.98	5.75	41.73	74.00	-32.27	peak	H
4570.000	35.63	11.06	46.69	74.00	-27.31	peak	H
6341.000	32.88	16.92	49.80	74.00	-24.20	peak	H
2974.000	38.89	5.84	44.73	74.00	-29.27	peak	V
4570.000	35.13	11.06	46.19	74.00	-27.81	peak	V
6222.000	33.03	16.56	49.59	74.00	-24.41	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	B360			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	3			Date:	09/25/2013		
Frequency:	2462MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2918.000	36.63	5.70	42.33	74.00	-31.67	peak	H
4591.000	34.97	11.11	46.08	74.00	-27.92	peak	H
6250.000	33.80	16.64	50.44	74.00	-23.56	peak	H
2939.000	35.49	5.75	41.24	74.00	-32.76	peak	V
4563.000	35.11	11.05	46.16	74.00	-27.84	peak	V
6243.000	32.16	16.63	48.79	74.00	-25.21	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	B360			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	4			Date:	09/25/2013		
Frequency:	2412MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2939.000	36.07	5.75	41.82	74.00	-32.18	peak	H
4563.000	33.76	11.05	44.81	74.00	-29.19	peak	H
6243.000	32.60	16.63	49.23	74.00	-24.77	peak	H
2939.000	37.38	5.75	43.13	74.00	-30.87	peak	V
4598.000	35.53	11.14	46.67	74.00	-27.33	peak	V
6250.000	32.81	16.64	49.45	74.00	-24.55	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	B360			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	4			Date:	09/25/2013		
Frequency:	2437MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3009.000	35.90	5.93	41.83	74.00	-32.17	peak	H
4605.000	34.78	11.15	45.93	74.00	-28.07	peak	H
6257.000	32.69	16.66	49.35	74.00	-24.65	peak	H
2897.000	36.03	5.64	41.67	74.00	-32.33	peak	V
4570.000	34.15	11.06	45.21	74.00	-28.79	peak	V
6229.000	31.69	16.58	48.27	74.00	-25.73	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	B360			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	4			Date:	09/25/2013		
Frequency:	2462MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3051.000	37.54	6.02	43.56	74.00	-30.44	peak	H
4570.000	34.59	11.06	45.65	74.00	-28.35	peak	H
6341.000	32.07	16.92	48.99	74.00	-25.01	peak	H
3051.000	37.00	6.02	43.02	74.00	-30.98	peak	V
4570.000	34.45	11.06	45.51	74.00	-28.49	peak	V
6369.000	32.49	17.00	49.49	74.00	-24.51	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	B360			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	5			Date:	09/25/2013		
Frequency:	5745MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3051.000	38.89	6.02	44.91	74.00	-29.09	peak	H
4549.000	34.08	11.01	45.09	74.00	-28.91	peak	H
6369.000	31.81	17.00	48.81	74.00	-25.19	peak	H
2890.000	36.58	5.63	42.21	74.00	-31.79	peak	V
4563.000	34.53	11.05	45.58	74.00	-28.42	peak	V
6397.000	32.09	17.10	49.19	74.00	-24.81	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	B360			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	5			Date:	09/25/2013		
Frequency:	5785MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2771.000	37.35	5.32	42.67	74.00	-31.33	peak	H
4570.000	35.00	11.06	46.06	74.00	-27.94	peak	H
6334.000	32.83	16.90	49.73	74.00	-24.27	peak	H
2883.000	36.79	5.61	42.40	74.00	-31.60	peak	V
4577.000	34.77	11.07	45.84	74.00	-28.16	peak	V
6390.000	32.57	17.08	49.65	74.00	-24.35	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	B360			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	5			Date:	09/25/2013		
Frequency:	5825MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3037.000	36.78	5.99	42.77	74.00	-31.23	peak	H
4570.000	35.01	11.06	46.07	74.00	-27.93	peak	H
6383.000	32.58	17.06	49.64	74.00	-24.36	peak	H
3023.000	36.82	5.96	42.78	74.00	-31.22	peak	V
4577.000	35.27	11.07	46.34	74.00	-27.66	peak	V
6369.000	32.82	17.00	49.82	74.00	-24.18	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	B360			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	6			Date:	09/26/2013		
Frequency:	5745MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2862.000	37.16	5.55	42.71	74.00	-31.29	peak	H
4577.000	34.82	11.07	45.89	74.00	-28.11	peak	H
6383.000	33.52	17.06	50.58	74.00	-23.42	peak	H
2925.000	37.07	5.72	42.79	74.00	-31.21	peak	V
4577.000	35.39	11.07	46.46	74.00	-27.54	peak	V
6355.000	31.93	16.97	48.90	74.00	-25.10	peak	V

Standard:	FCC Part 15C			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	B360			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Mode:	6			Date:	09/26/2013		
Frequency:	5785MHz			Test By:	Fly Lu		
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
3086.000	38.09	6.10	44.19	74.00	-29.81	peak	H
4570.000	35.18	11.06	46.24	74.00	-27.76	peak	H
6383.000	32.17	17.06	49.23	74.00	-24.77	peak	H
3037.000	37.28	5.99	43.27	74.00	-30.73	peak	V
4549.000	33.87	11.01	44.88	74.00	-29.12	peak	V
6439.000	33.22	17.22	50.44	74.00	-23.56	peak	V

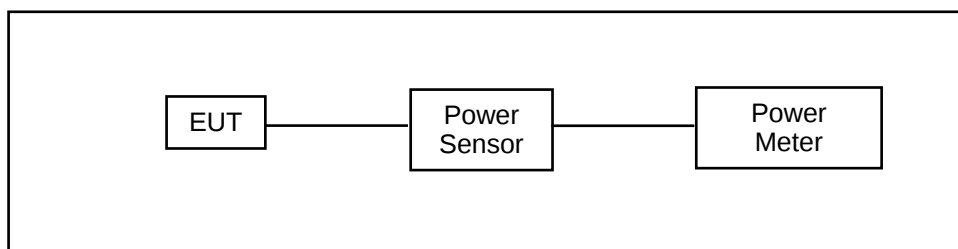
Standard:		FCC Part 15C		Test Distance:		3m	
Test item:		Radiated Emission		Power:		AC 120V/60Hz	
Model Number:		B360		Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Mode:		6		Date:		09/26/2013	
Frequency:		5825MHz		Test By:		Fly Lu	
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2897.000	36.13	5.64	41.77	74.00	-32.23	peak	H
4549.000	34.64	11.01	45.65	74.00	-28.35	peak	H
6397.000	32.34	17.10	49.44	74.00	-24.56	peak	H
2771.000	38.51	5.32	43.83	74.00	-30.17	peak	V
4591.000	36.71	11.11	47.82	74.00	-26.18	peak	V
6355.000	33.41	16.97	50.38	74.00	-23.62	peak	V

6 Maximum Conducted Output Power Measurement

6.1. Limit

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm.

6.2. Test Setup



6.3. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Single Channel PK Power Sensor	Agilent	N1911A	MY45101619	12/19/2012	(1)
Wideband Power Meter	Agilent	N1921A	MY45241957	12/19/2012	(1)
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years. (3) Calibration period 3 years.

Note: N.C.R. = No Calibration Request.

6.4. Test Procedure

The tests below are run with the EUT's transmitter set at high power in TX mode. The EUT is needed to force selection of output power level and channel number. While testing, EUT was set to transmit continuously. Remove the Subjective device's antenna and connect the RF output port to power sensor. The maximum peak output power shall not exceed 1 watt.

Use a direct connection between the antenna port of transmitter and the power sensor, for prevent the power sensor input attenuation 40-50 dB. Set the RBW Bandwidth of the emission or use a channel power meter mode.

For antennas with gains of 6 dBi or less, maximum allowed transmitter output is 1 watt (+30 dBm). For antennas with gains greater than 6 dBi, transmitter output level must be decreased by an amount equal to (GAIN - 6)/3 dBm.

The antenna port of the EUT was connected to the input of a power sensor. Power was read directly and cable loss correction was added to the reading to obtain power at the EUT antenna terminals.

6.5. Test Result

Model Number	B360					
Test Item	Maximum Conducted Output Power					
Test Mode	Mode 2: IEEE 802.11b Link Mode					
Date of Test	09/23/2013			Test Site	TE05	
Frequency (MHz)	Data Rate	Average Power		Peak Power		Limit (dBm)
		(dBm)	(W)	(dBm)	(W)	
2412	1M	15.04	0.032	18.36	0.069	< 30
2437		14.91	0.031	18.29	0.067	< 30
2462		14.61	0.029	18.13	0.065	< 30
2437	2M	14.85	0.031	18.25	0.067	< 30
2437	5.5M	14.84	0.030	18.23	0.067	< 30
2437	11M	14.76	0.030	18.21	0.066	< 30

Model Number	B360					
Test Item	Maximum Conducted Output Power					
Test Mode	Mode 3: IEEE 802.11g Link Mode					
Date of Test	09/23/2013			Test Site	TE05	
Frequency (MHz)	Data Rate	Average Power		Peak Power		Limit (dBm)
		(dBm)	(W)	(dBm)	(W)	
2412	6M	14.34	0.027	23.52	0.225	< 30
2437		14.21	0.026	23.41	0.219	< 30
2462		13.93	0.025	23.31	0.214	< 30
2437	9M	14.16	0.026	23.32	0.215	< 30
2437	12M	14.07	0.026	23.22	0.210	< 30
2437	18M	13.95	0.025	23.02	0.200	< 30
2437	24M	13.88	0.024	22.97	0.198	< 30
2437	36M	13.76	0.024	22.83	0.192	< 30
2437	48M	13.82	0.024	22.84	0.192	< 30
2437	54M	13.67	0.023	22.79	0.190	< 30

Model Number	B360					
Test Item	Maximum Conducted Output Power					
Test Mode	Mode 4: IEEE 802.11n 2.4GHz 20MHz Link Mode					
Date of Test	09/23/2013			Test Site	TE05	
Frequency (MHz)	Data Rate	Average Power		Peak Power		Limit (dBm)
		(dBm)	(W)	(dBm)	(W)	
2412	6.5M	13.15	0.021	22.71	0.187	< 30
2437		13.10	0.020	22.62	0.183	< 30
2462		12.85	0.019	22.58	0.181	< 30
2437	13M	12.91	0.020	22.59	0.182	< 30
2437	19.5M	12.87	0.019	22.55	0.180	< 30
2437	26M	12.86	0.019	22.51	0.178	< 30
2437	39M	12.85	0.019	22.47	0.177	< 30
2437	52M	12.83	0.019	22.43	0.175	< 30
2437	58.5M	12.78	0.019	22.35	0.172	< 30
2437	65M	12.89	0.019	22.57	0.181	< 30

Model Number	B360					
Test Item	Maximum Conducted Output Power					
Test Mode	Mode 5: IEEE 802.11a U-NII Band IV Link Mode					
Date of Test	09/23/2013			Test Site	TE05	
Frequency (MHz)	Data Rate	Average Power		Peak Power		Limit (dBm)
		(dBm)	(W)	(dBm)	(W)	
5745	6M	14.34	0.027	20.43	0.110	< 30
5765		14.05	0.025	20.31	0.107	< 30
5785		13.82	0.024	20.27	0.106	< 30
5805		13.70	0.023	20.26	0.106	< 30
5825		13.68	0.023	20.21	0.105	< 30
5745	54M	13.53	0.023	20.30	0.107	< 30
5765		13.36	0.022	20.19	0.104	< 30
5785		13.08	0.020	20.17	0.104	< 30
5805		12.98	0.020	20.14	0.103	< 30
5825		12.95	0.020	20.09	0.102	< 30

Model Number	B360					
Test Item	Maximum Conducted Output Power					
Test Mode	Mode 6: IEEE 802.11n U-NII Band IV 20MHz Link Mode					
Date of Test	09/23/2013			Test Site	TE05	
Frequency (MHz)	Data Rate	Average Power		Peak Power		Limit (dBm)
		(dBm)	(W)	(dBm)	(W)	
5745	6.5M	14.12	0.026	20.35	0.108	< 30
5765		13.73	0.024	20.27	0.106	< 30
5785		13.56	0.023	20.25	0.106	< 30
5805		13.41	0.022	20.22	0.105	< 30
5825		13.40	0.022	20.19	0.104	< 30
5745	65M	13.22	0.021	20.34	0.108	< 30
5765		13.03	0.020	20.22	0.105	< 30
5785		12.85	0.019	20.19	0.104	< 30
5805		12.77	0.019	20.15	0.104	< 30
5825		12.66	0.018	20.11	0.103	< 30

7 6dB RF Bandwidth & 99 % Occupied Bandwidth Measurement

7.1. Limit

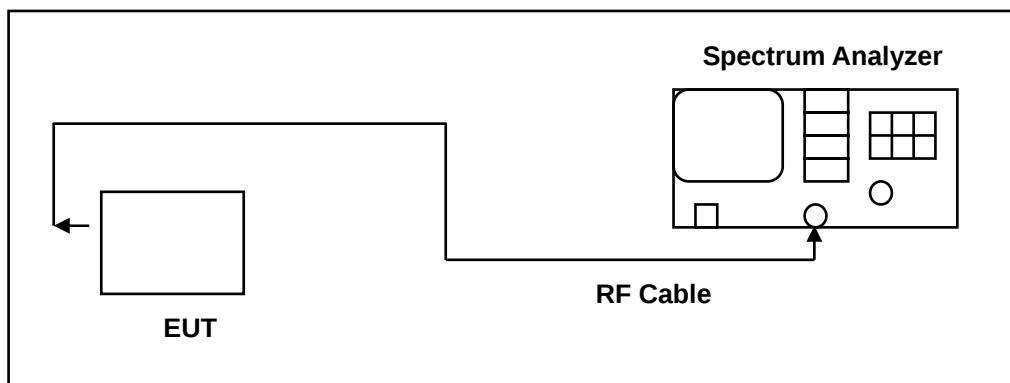
6dB RF Bandwidth

Systems using digital modulation techniques may operate in the 2400–2483.5 MHz bands. The minimum 6 dB band-width shall be at least 500 kHz.

99 % Occupied Bandwidth

N/A

7.2. Test Setup



7.3. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY45300744	12/19/2012	(1)
Test Site	ATL	TE05	TE05	N.C.R.	-----

dRemark: (1) Calibration period 1 year. (2) Calibration period 2 years. (3) Calibration period 3 years.

Note: N.C.R. = No Calibration Request.

7.4. Test Procedure

6dB RF Bandwidth

The EUT was setup to ANSI C63.4, 2009; tested to DTS test procedure of Oct 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A peak output reading was taken, a DISPLAY line was drawn 6 dB lower than peak level. The 6 dB bandwidth was determined from where the channel output spectrum intersected the display line.

The test was performed at 3 channels (Channel 1, 6, 11)

99 % Occupied Bandwidth

The transmitter shall be operated at its maximum carrier power measured under normal test conditions.

The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.

The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%.

The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual.

The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded.

7.5. Test Result

Model Number	B360		
Test Item	6dB RF Bandwidth & 99 % Occupied Bandwidth		
Test Mode	Mode 2: IEEE 802.11b Link Mode		
Date of Test	09/27/2013	Test Site	TE05
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
2412	7.571	11.9083	> 500
2437	7.091	11.9685	> 500
2462	7.508	12.0294	> 500

Model Number	B360		
Test Item	6dB RF Bandwidth & 99 % Occupied Bandwidth		
Test Mode	Mode 3: IEEE 802.11g Link Mode		
Date of Test	09/27/2013	Test Site	TE05
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
2412	14.320	16.2691	> 500
2437	15.479	16.2714	> 500
2462	15.676	16.2822	> 500

Model Number	B360		
Test Item	6dB RF Bandwidth & 99 % Occupied Bandwidth		
Test Mode	Mode 4: IEEE 802.11n 2.4GHz 20MHz Link Mode		
Date of Test	09/27/2013	Test Site	TE05
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
2412	15.975	17.4347	> 500
2437	16.113	17.4180	> 500
2462	15.161	17.4159	> 500

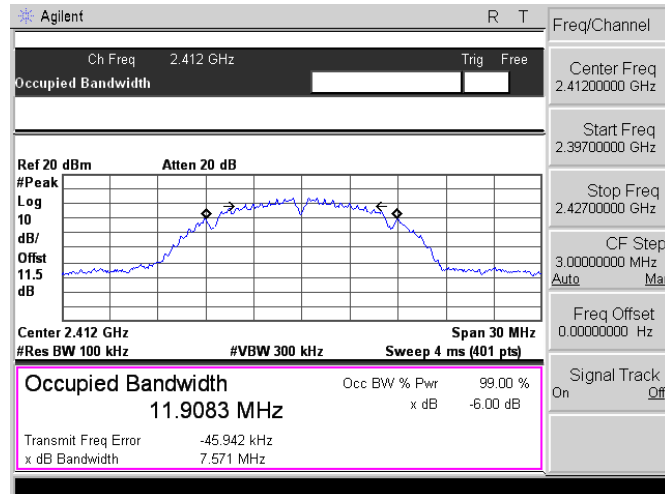
Model Number	B360		
Test Item	6dB RF Bandwidth & 99 % Occupied Bandwidth		
Test Mode	Mode 5: IEEE 802.11a U-NII Band IV Link Mode		
Date of Test	09/27/2013	Test Site	TE05
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
5745	15.179	16.4294	> 500
5785	15.355	16.3846	> 500
5825	15.199	16.3983	> 500

Model Number	B360		
Test Item	6dB RF Bandwidth & 99 % Occupied Bandwidth		
Test Mode	Mode 6: IEEE 802.11n U-NII Band IV 20MHz Link Mode		
Date of Test	09/27/2013	Test Site	TE05
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
5745	15.110	17.4960	> 500
5785	16.334	17.4701	> 500
5825	14.327	17.4790	> 500

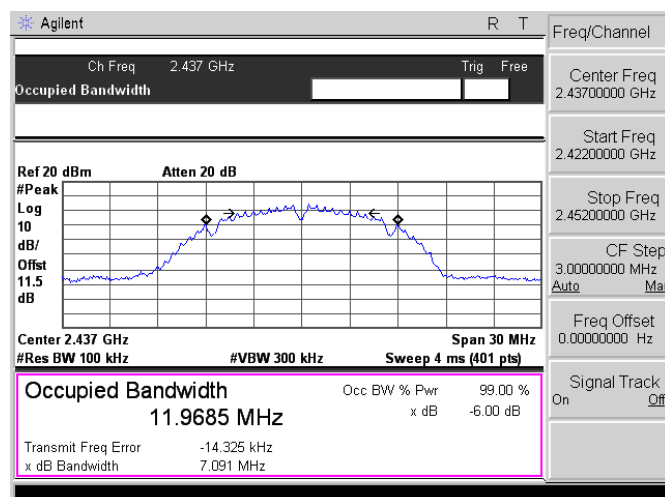
7.6. Test Graphs

Mode 2: IEEE 802.11b Link Mode

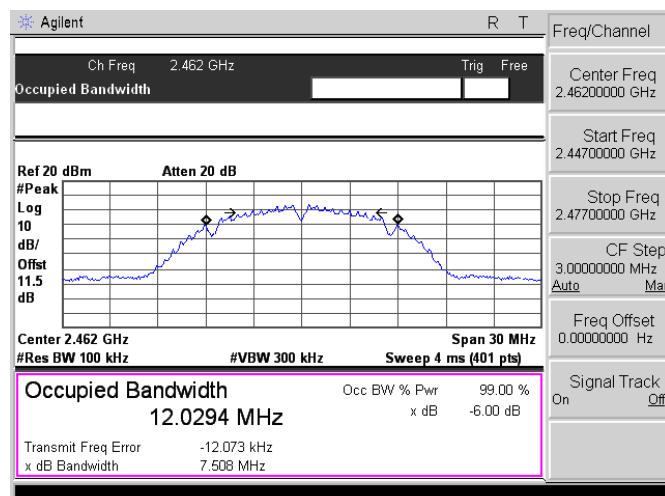
2412



2437

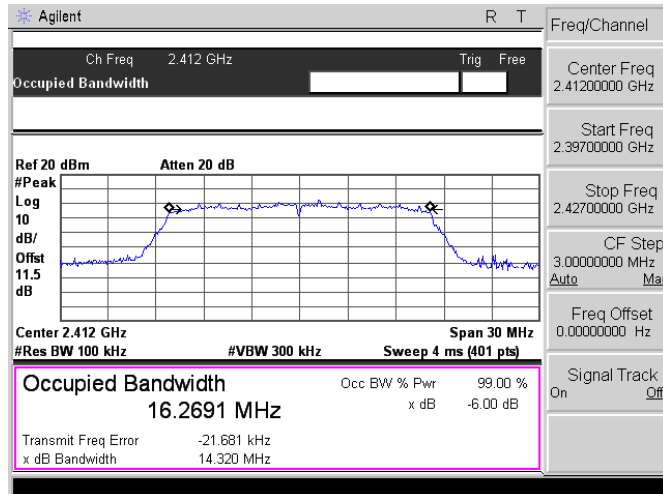


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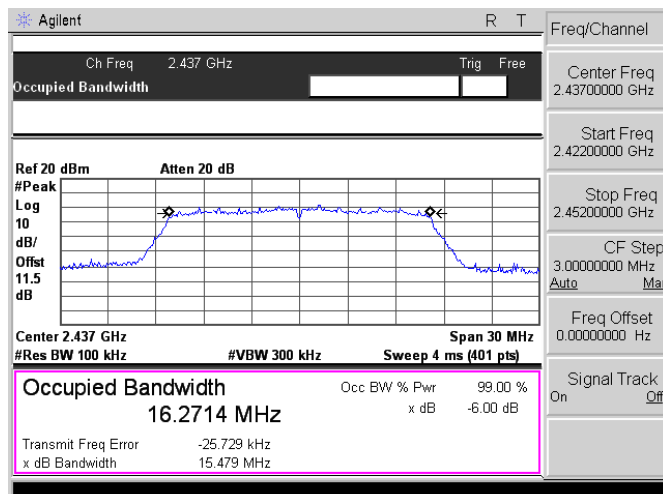


Mode 3: IEEE 802.11g Link Mode

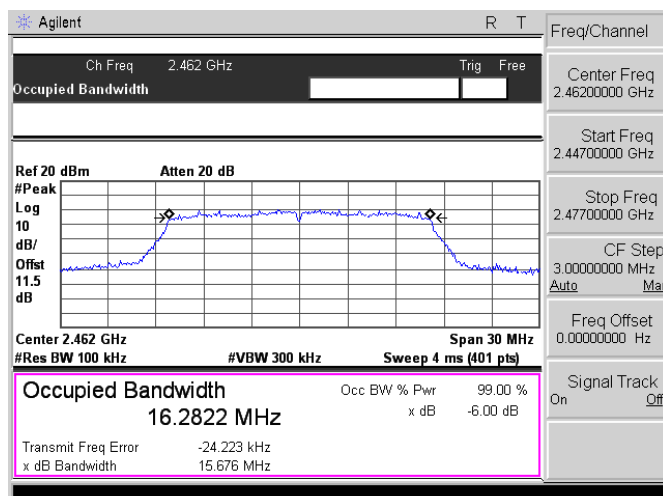
2412



2437

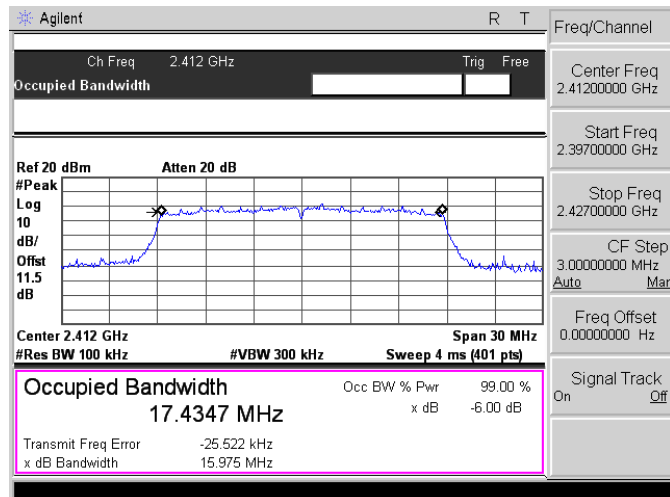


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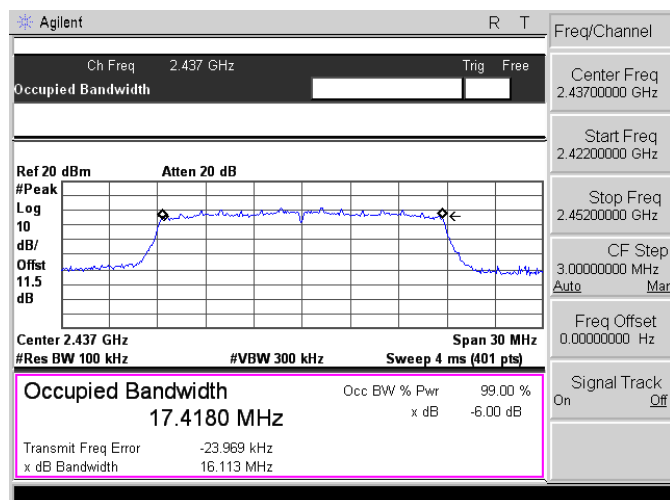


Mode 4: IEEE 802.11n 2.4GHz 20MHz Link Mode

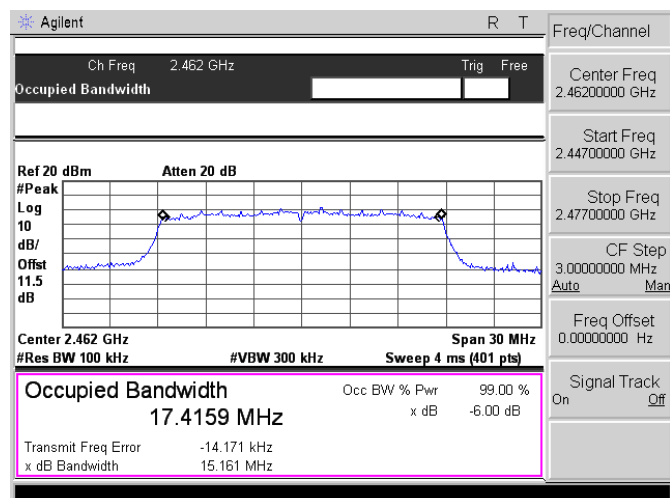
2412



2437

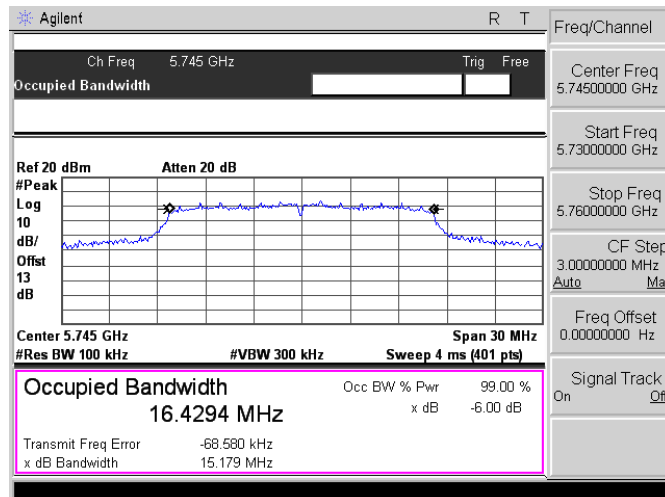


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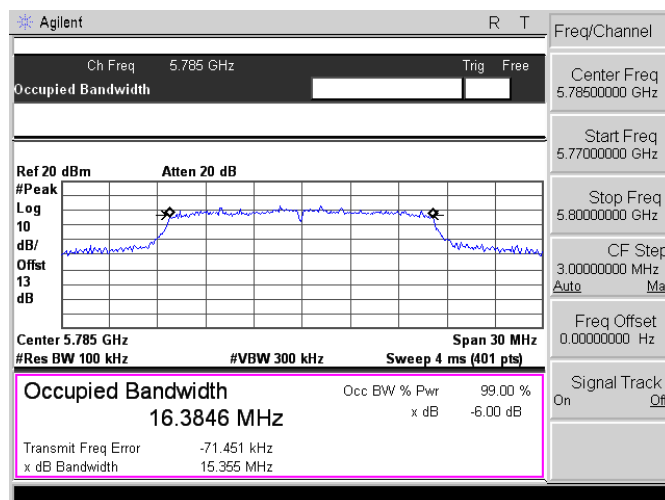


Mode 5: IEEE 802.11a U-NII Band IV Link Mode

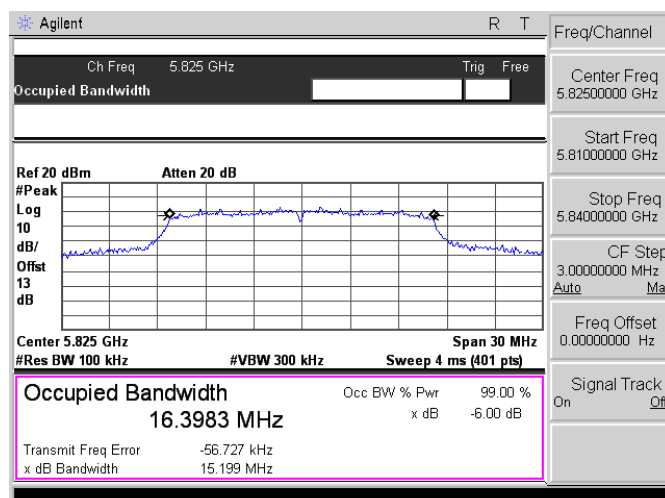
5745



5785

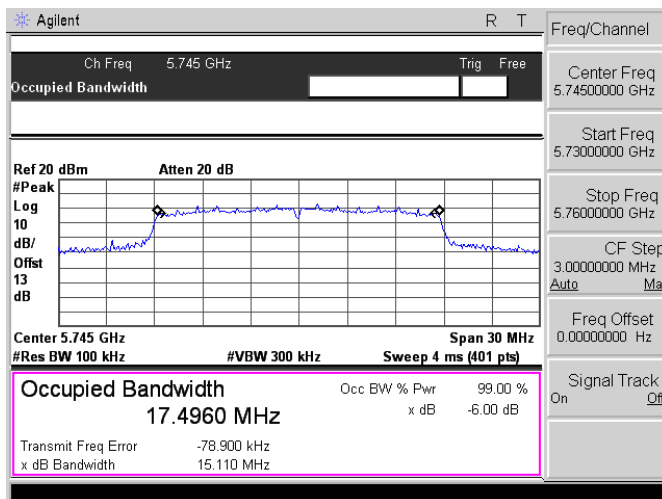


5825

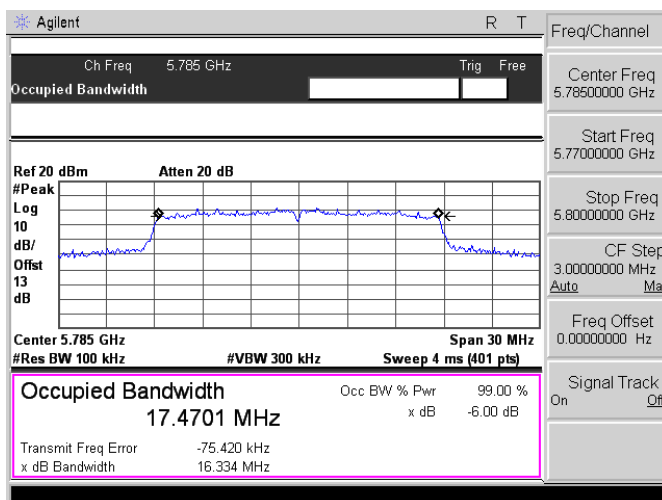


Mode 6: IEEE 802.11n U-NII Band IV 20MHz Link Mode

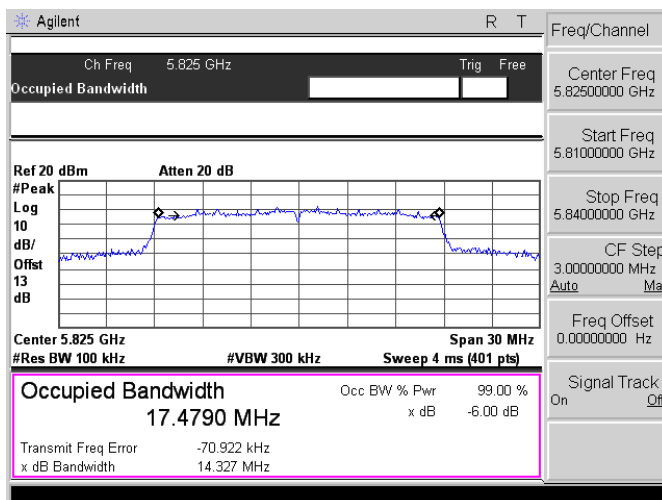
5745



5785



5825

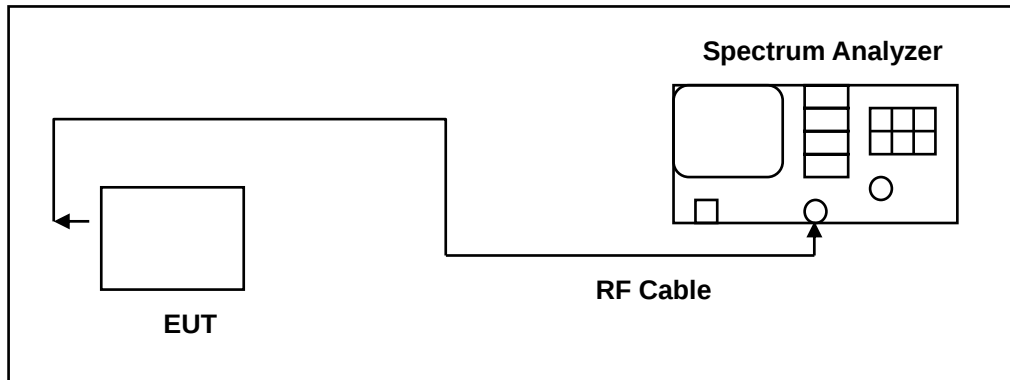


8 Maximum Power Density Measurement

8.1. Limit

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.

8.2. Test Setup



8.3. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY45300744	12/19/2012	(1)
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years. (3) Calibration period 3 years.

Note: N.C.R. = No Calibration Request.

8.4. Test Procedure

The EUT was setup to ANSI C63.4, 2009; tested to DTS test procedure of KDB558074D01 for compliance to FCC 47CFR 15.247 requirements.

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \text{ RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

8.5. Test Result

Model Number	B360		
Test Item	Maximum Power Density		
Test Mode	Mode 2: IEEE 802.11b Link Mode		
Date of Test	10/02/2013	Test Site	TE05
Frequency (MHz)	Reading (dBm/3KHz)		Limit (dBm)
2412	-8.44		< 8
2437	-10.10		< 8
2462	-9.48		< 8

Model Number	B360		
Test Item	Maximum Power Density		
Test Mode	Mode 3: IEEE 802.11g Link Mode		
Date of Test	10/02/2013	Test Site	TE05
Frequency (MHz)	Reading (dBm/3KHz)		Limit (dBm)
2412	-13.04		< 8
2437	-11.65		< 8
2462	-11.17		< 8

Model Number	B360		
Test Item	Maximum Power Density		
Test Mode	Mode 4: IEEE 802.11n 2.4GHz 20MHz Link Mode		
Date of Test	10/02/2013	Test Site	TE05
Frequency (MHz)	Reading (dBm/3KHz)		Limit (dBm)
2412	-12.48		< 8
2437	-11.49		< 8
2462	-12.81		< 8

Model Number	B360		
Test Item	Maximum Power Density		
Test Mode	Mode 5: IEEE 802.11a U-NII Band IV Link Mode		
Date of Test	10/03/2013	Test Site	TE05
Frequency (MHz)	Reading (dBm/3KHz)		Limit (dBm)
5745	-9.06		< 8
5785	-10.12		< 8
5825	-9.53		< 8

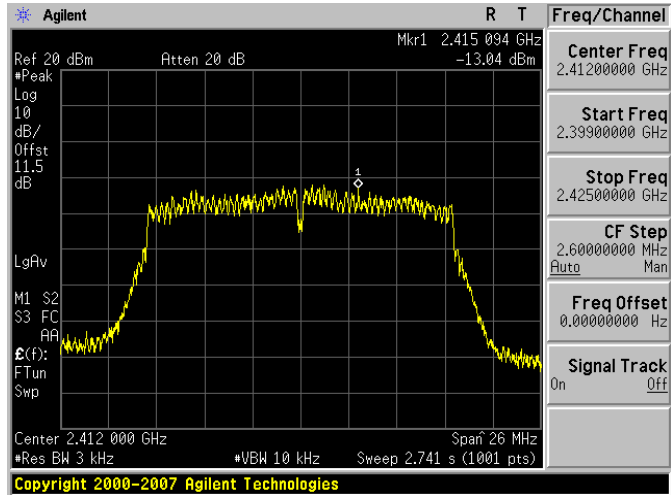
Model Number	B360		
Test Item	Maximum Power Density		
Test Mode	Mode 6: IEEE 802.11n U-NII Band IV 20MHz Link Mode		
Date of Test	10/03/2013	Test Site	TE05
Frequency (MHz)	Reading (dBm/3KHz)		Limit (dBm)
5745	-10.19		< 8
5785	-9.96		< 8
5825	-11.28		< 8

8.6. Test Graphs

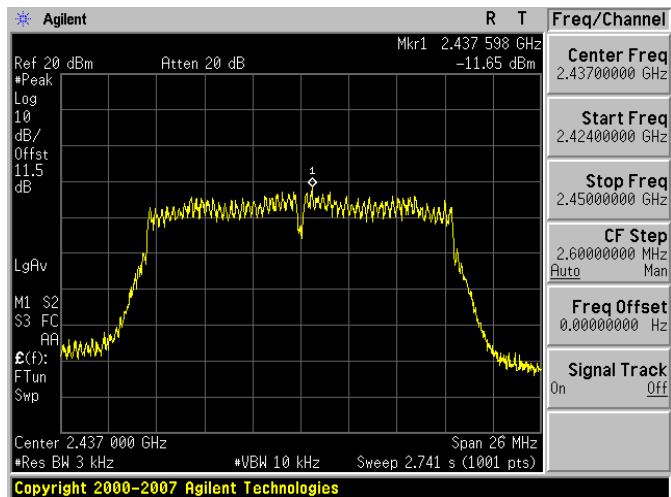
Mode 2: IEEE 802.11b Link Mode	
2412	Copyright 2000-2007 Agilent Technologies
2437	Copyright 2000-2007 Agilent Technologies
2462	Copyright 2000-2007 Agilent Technologies

Mode 3: IEEE 802.11g Link Mode

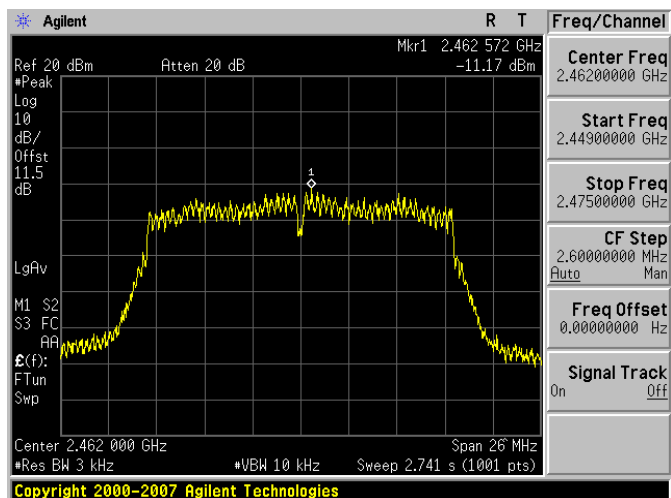
2412



2437

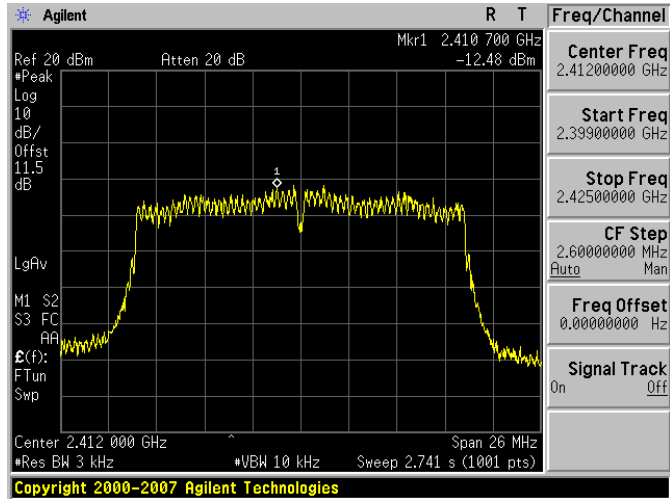


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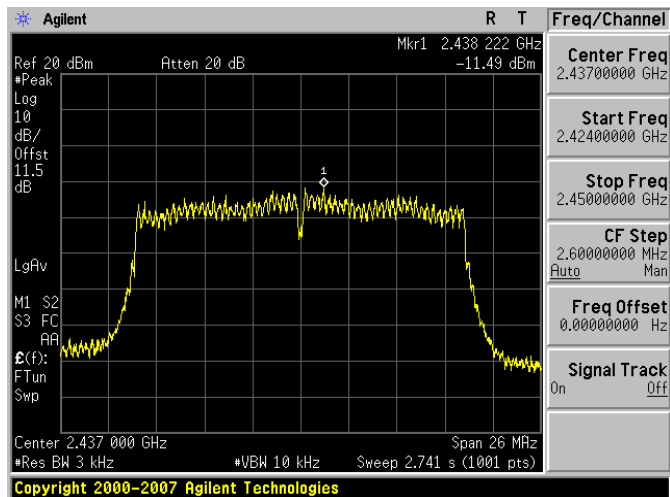


Mode 4: IEEE 802.11n 2.4GHz 20MHz Link Mode

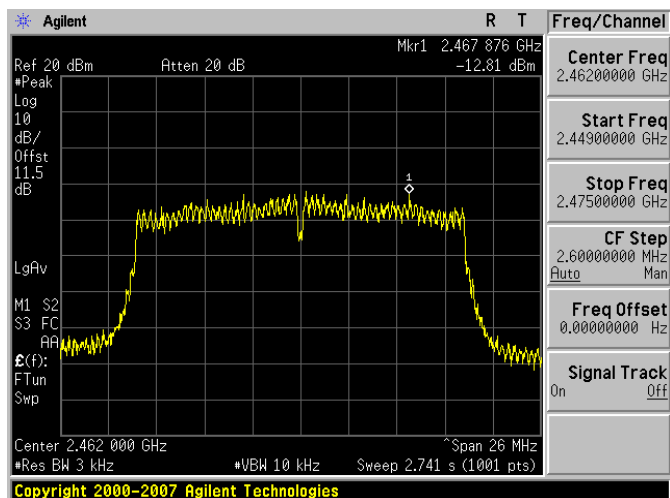
2412



2437



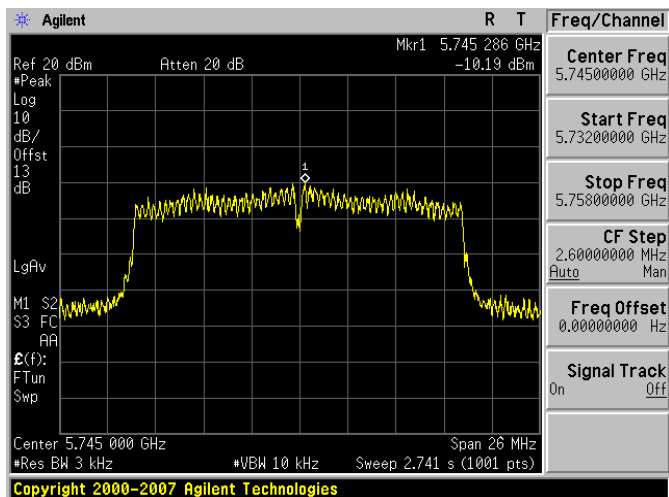
2462



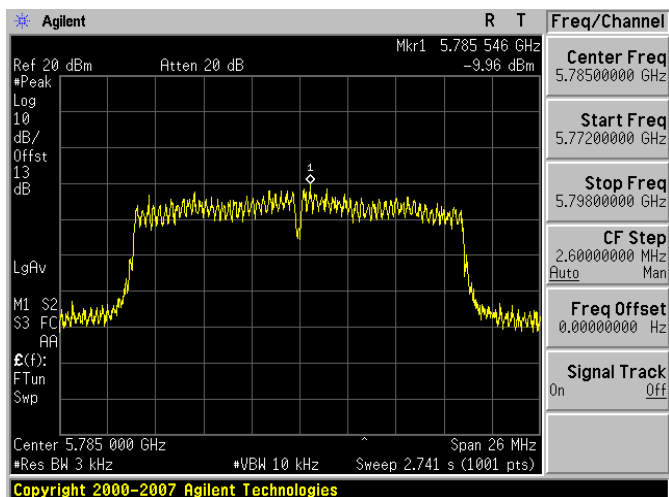
Mode 5: IEEE 802.11a U-NII Band IV Link Mode	
5745	Agilent R T Freq/Channel Ref 20 dBm Atten 20 dB Mkr1 5.743 700 GHz -9.06 dBm Center Freq 5.74500000 GHz Start Freq 5.73200000 GHz Stop Freq 5.75800000 GHz CF Step 2.60000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Center 5.745 000 GHz Span 26 MHz Res BW 3 kHz VBW 10 kHz Sweep 2.741 s (1001 pts) Copyright 2000-2007 Agilent Technologies
5785	Agilent R T Freq/Channel Ref 20 dBm Atten 20 dB Mkr1 5.786 170 GHz -10.12 dBm Center Freq 5.78500000 GHz Start Freq 5.77200000 GHz Stop Freq 5.79800000 GHz CF Step 2.60000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Center 5.785 000 GHz Span 26 MHz Res BW 3 kHz VBW 10 kHz Sweep 2.741 s (1001 pts) Copyright 2000-2007 Agilent Technologies
5825	Agilent R T Freq/Channel Ref 20 dBm Atten 20 dB Mkr1 5.825 234 GHz -9.53 dBm Center Freq 5.82500000 GHz Start Freq 5.81200000 GHz Stop Freq 5.83800000 GHz CF Step 2.60000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Center 5.825 000 GHz Span 26 MHz Res BW 3 kHz VBW 10 kHz Sweep 2.741 s (1001 pts) Copyright 2000-2007 Agilent Technologies

Mode 6: IEEE 802.11n U-NII Band IV 20MHz Link Mode

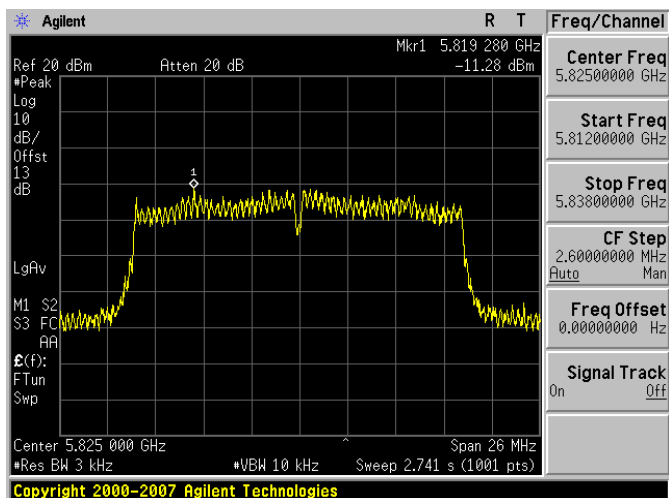
5745



5785



5825

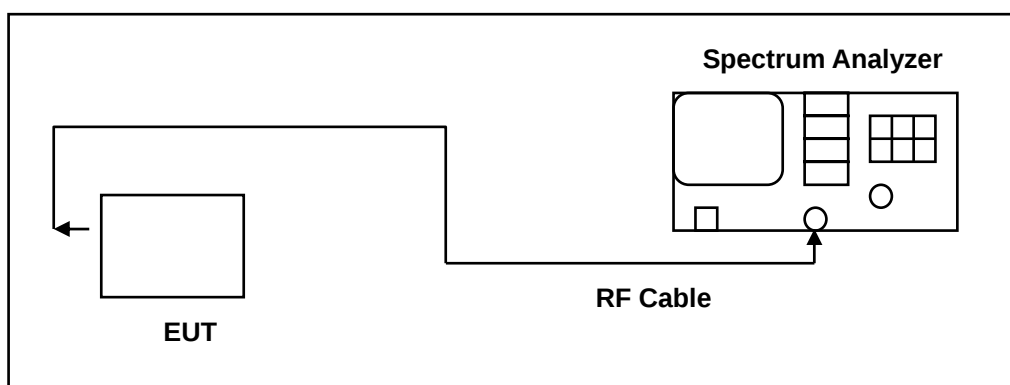


9 Out of Band Conducted Emissions Measurement

9.1. Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

9.2. Test Setup



9.3. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY45300744	12/19/2012	(1)
Spectrum Analyzer	Agilent	E4408B	MY45107753	07/11/2013	(1)
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years. (3) Calibration period 3 years.

Note: N.C.R. = No Calibration Request.

9.4. Test Procedure

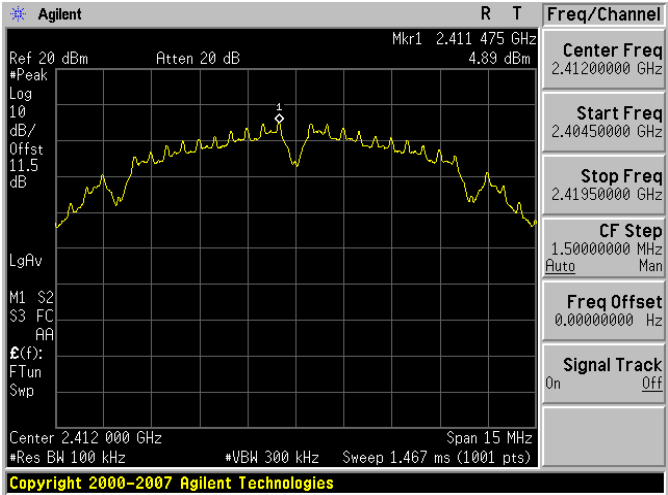
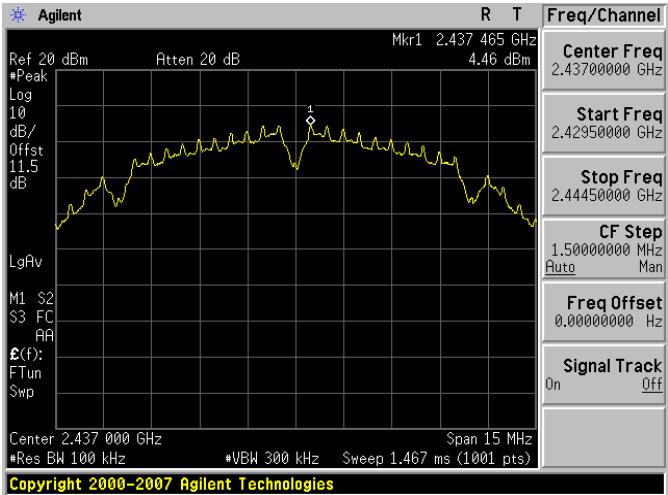
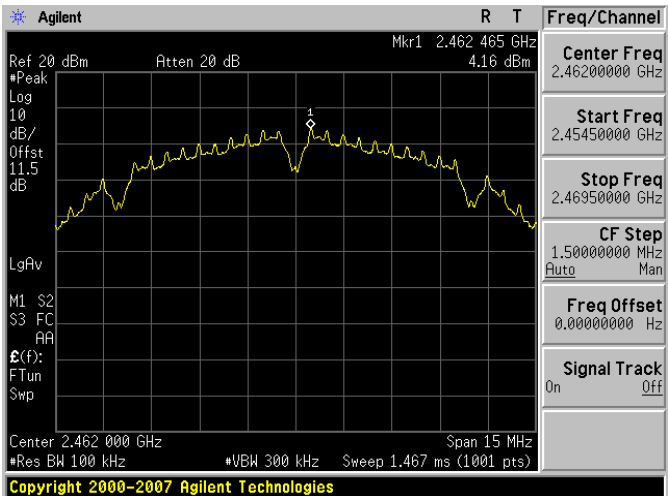
In any 100 kHz bandwidth outside the EUT pass band, the RF power produced by the modulation products of the spreading sequence, the information sequence, and the carrier frequency shall be at least 20 dB below that of the maximum in-band 100 kHz emission, antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

All other types of emissions from the EUT shall meet the general limits for radiated frequencies outside the pass band.

The test was performed at 3 channels (Channel 1, 6, 11)

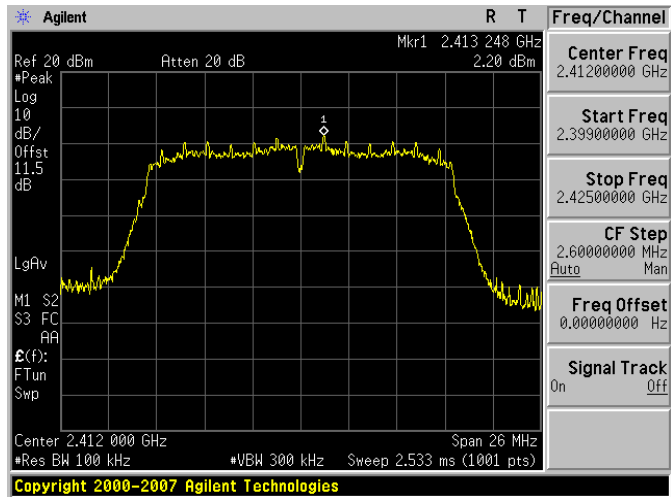
9.5. Test Graphs

Reference level

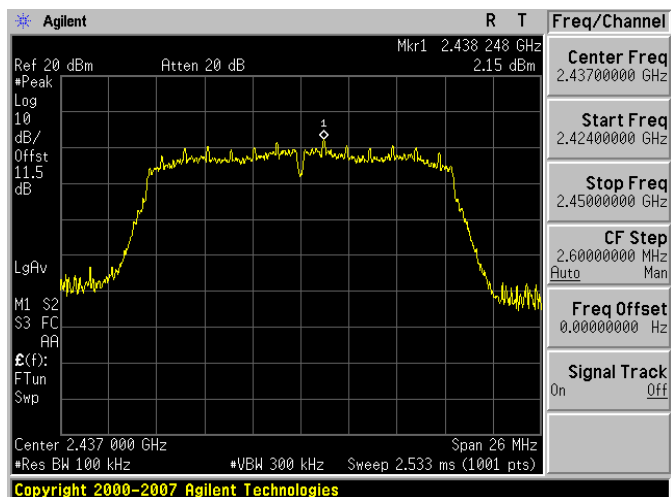
Mode 2: IEEE 802.11b Link Mode	
2412	 Agilent R T Freq/Channel Mkr1 2.411 475 GHz Ref 20 dBm Atten 20 dB #Peak 4.89 dBm Log 10 dB/ Offst 11.5 dB LgAv M1 S2 S3 FC AA £(f): FTun Swp Center 2.412 000 GHz Span 15 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.467 ms (1001 pts) Copyright 2000-2007 Agilent Technologies Center Freq 2.4120000 GHz Start Freq 2.40450000 GHz Stop Freq 2.41950000 GHz CF Step 1.50000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
2437	 Agilent R T Freq/Channel Mkr1 2.437 465 GHz Ref 20 dBm Atten 20 dB #Peak 4.46 dBm Log 10 dB/ Offst 11.5 dB LgAv M1 S2 S3 FC AA £(f): FTun Swp Center 2.437 000 GHz Span 15 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.467 ms (1001 pts) Copyright 2000-2007 Agilent Technologies Center Freq 2.4370000 GHz Start Freq 2.42950000 GHz Stop Freq 2.44450000 GHz CF Step 1.50000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off
2462	 Agilent R T Freq/Channel Mkr1 2.462 465 GHz Ref 20 dBm Atten 20 dB #Peak 4.16 dBm Log 10 dB/ Offst 11.5 dB LgAv M1 S2 S3 FC AA £(f): FTun Swp Center 2.462 000 GHz Span 15 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.467 ms (1001 pts) Copyright 2000-2007 Agilent Technologies Center Freq 2.4620000 GHz Start Freq 2.45450000 GHz Stop Freq 2.46950000 GHz CF Step 1.50000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off

Mode 3: IEEE 802.11g Link Mode

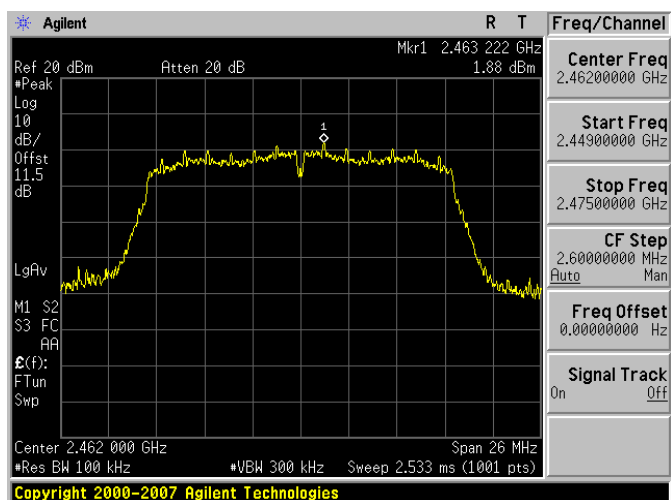
2412



2437

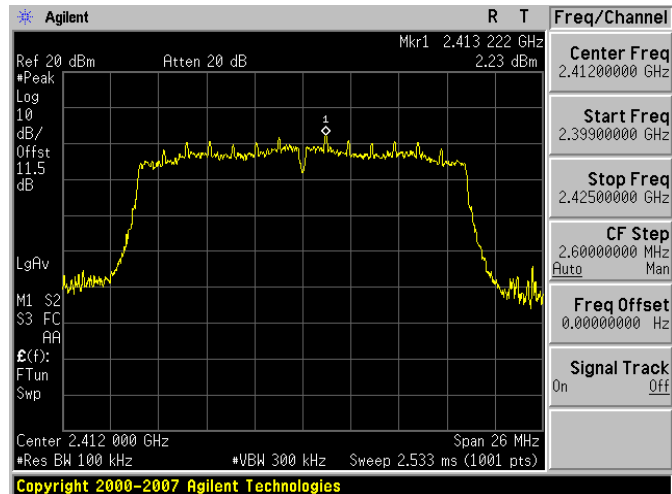


2462

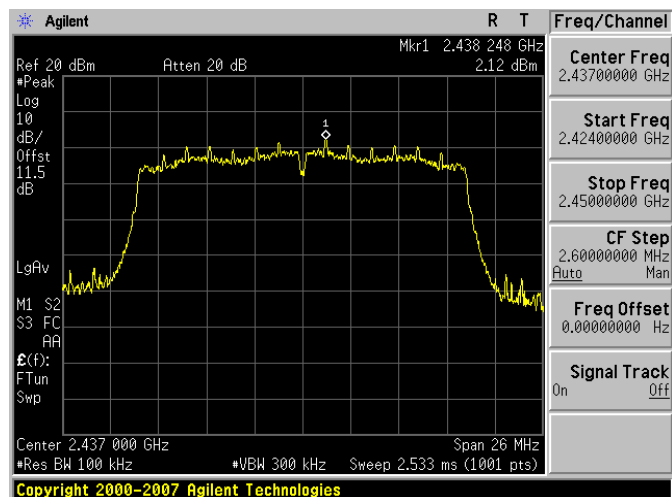


Mode 4: IEEE 802.11n 2.4GHz 20MHz Link Mode

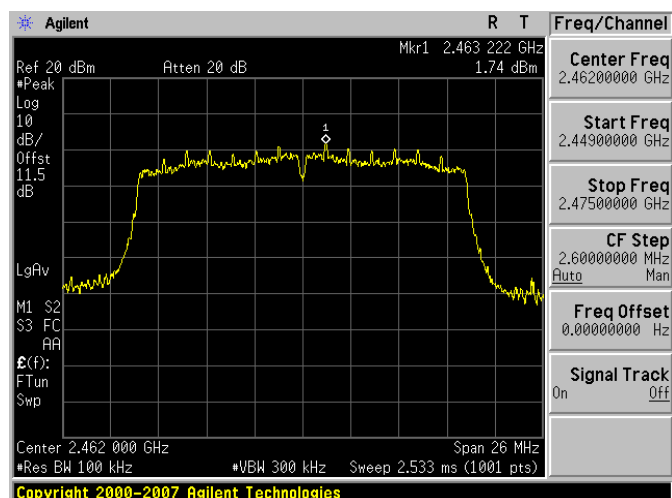
2412



2437

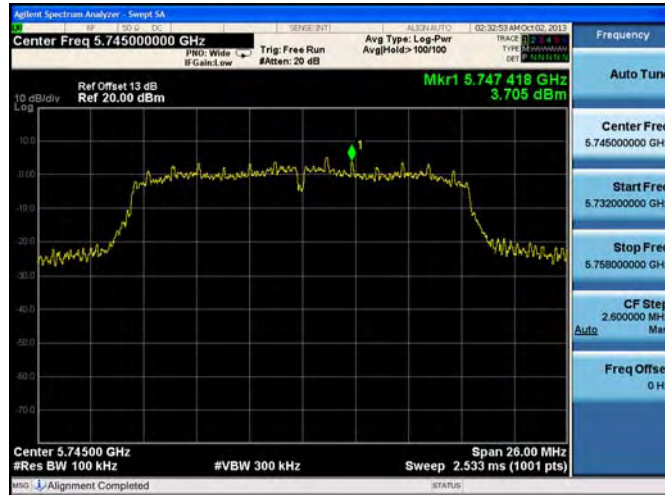


2462



Mode 5: IEEE 802.11a U-NII Band IV Link Mode

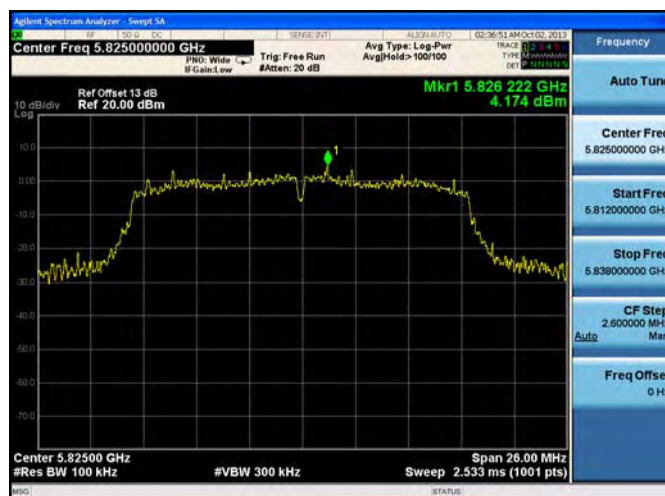
5745



5785



5825



Mode 6: IEEE 802.11n U-NII Band IV 20MHz Link Mode

5745



5785



5825



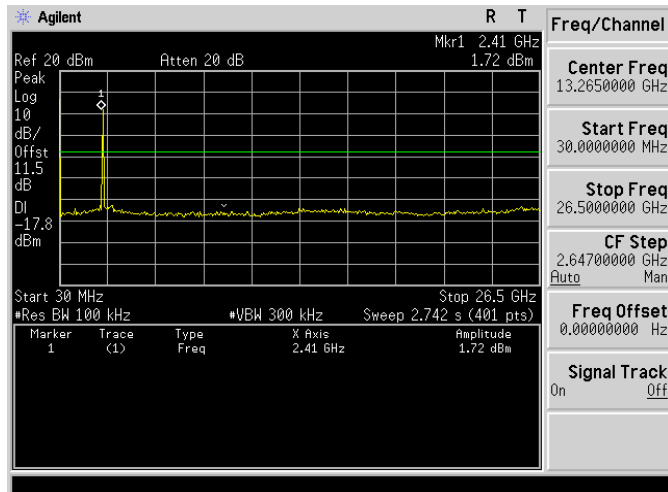
Out of Band Conducted Emissions

Mode 2: IEEE 802.11b Link Mode

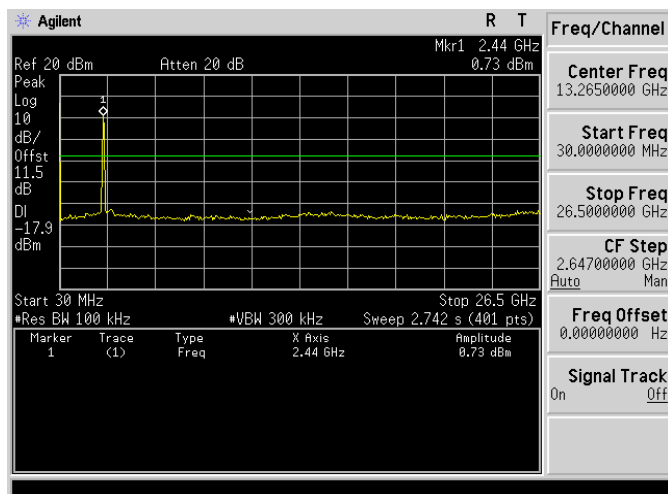
2412	Agilent R T Ref 20 dBm Atten 20 dB Mkr1 2.41 GHz 2.952 dBm Peak Log 10 dB/ Offst 11.5 dB DI -15.2 dBm Start 30 MHz Stop 26.5 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.742 s (401 pts) <table><tr><th>Marker</th><th>Trace</th><th>Type</th><th>X Axis</th><th>Amplitude</th></tr><tr><td>1</td><td>(1)</td><td>Freq</td><td>2.41 GHz</td><td>2.952 dBm</td></tr></table> Freq/Channel Center Freq13.2650000 GHz Start Freq30.0000000 MHz Stop Freq26.5000000 GHz CF Step2.64700000 GHz AutoMan Freq Offset0.00000000 Hz Signal TrackOnOff	Marker	Trace	Type	X Axis	Amplitude	1	(1)	Freq	2.41 GHz	2.952 dBm
Marker	Trace	Type	X Axis	Amplitude							
1	(1)	Freq	2.41 GHz	2.952 dBm							
2437	Agilent R T Ref 20 dBm Atten 20 dB Mkr1 2.44 GHz 3.275 dBm Peak Log 10 dB/ Offst 11.5 dB DI -15.6 dBm Start 30 MHz Stop 26.5 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.742 s (401 pts) <table><tr><th>Marker</th><th>Trace</th><th>Type</th><th>X Axis</th><th>Amplitude</th></tr><tr><td>1</td><td>(1)</td><td>Freq</td><td>2.44 GHz</td><td>3.275 dBm</td></tr></table> Freq/Channel Center Freq13.2650000 GHz Start Freq30.0000000 MHz Stop Freq26.5000000 GHz CF Step2.64700000 GHz AutoMan Freq Offset0.00000000 Hz Signal TrackOnOff	Marker	Trace	Type	X Axis	Amplitude	1	(1)	Freq	2.44 GHz	3.275 dBm
Marker	Trace	Type	X Axis	Amplitude							
1	(1)	Freq	2.44 GHz	3.275 dBm							
2462	Agilent R T Ref 20 dBm Atten 20 dB Mkr1 2.49 GHz 3.135 dBm Peak Log 10 dB/ Offst 11.5 dB DI -15.9 dBm Start 30 MHz Stop 26.5 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.742 s (401 pts) <table><tr><th>Marker</th><th>Trace</th><th>Type</th><th>X Axis</th><th>Amplitude</th></tr><tr><td>1</td><td>(1)</td><td>Freq</td><td>2.49 GHz</td><td>3.135 dBm</td></tr></table> Freq/Channel Center Freq13.2650000 GHz Start Freq30.0000000 MHz Stop Freq26.5000000 GHz CF Step2.64700000 GHz AutoMan Freq Offset0.00000000 Hz Signal TrackOnOff	Marker	Trace	Type	X Axis	Amplitude	1	(1)	Freq	2.49 GHz	3.135 dBm
Marker	Trace	Type	X Axis	Amplitude							
1	(1)	Freq	2.49 GHz	3.135 dBm							

Mode 3: IEEE 802.11g Link Mode

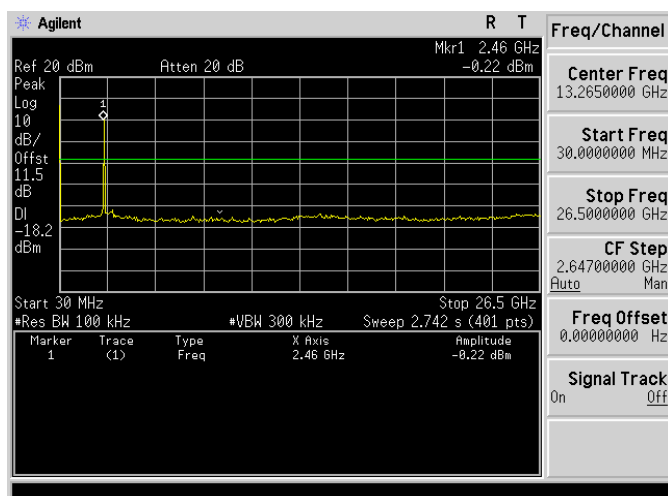
2412



2437

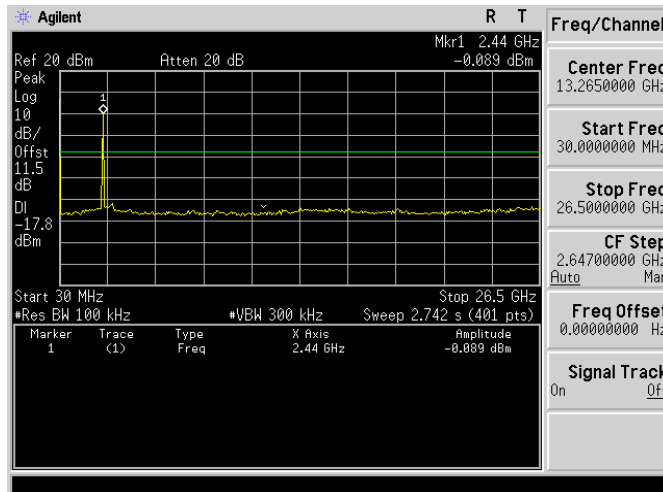


2462

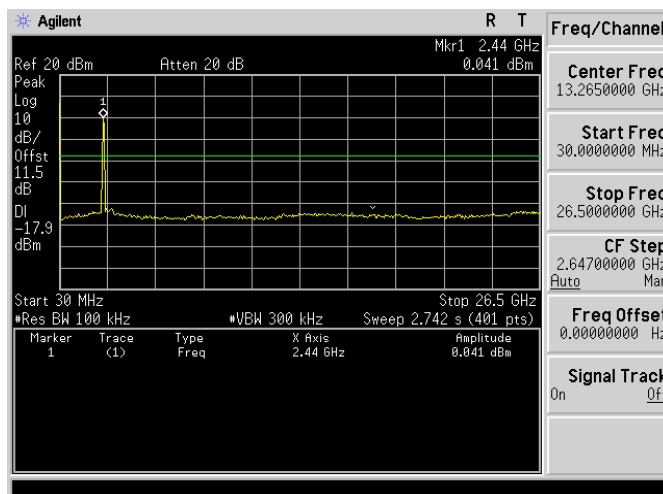


Mode 4: IEEE 802.11n 2.4GHz 20MHz Link Mode

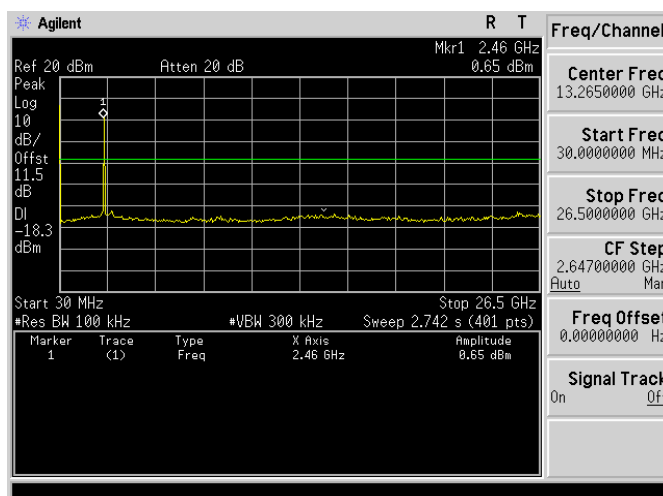
2412



2437

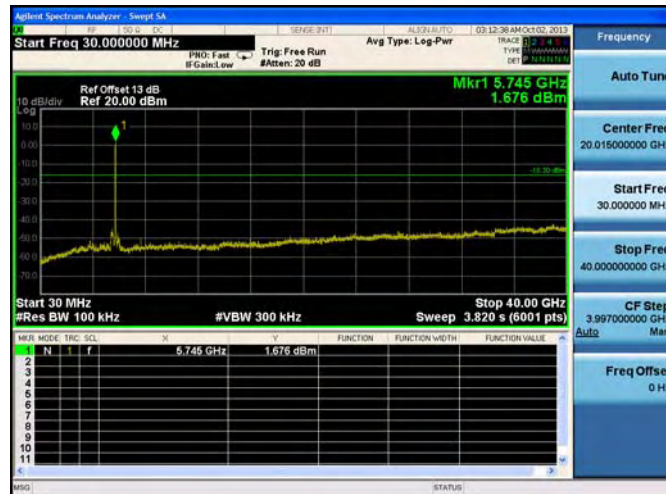


2462

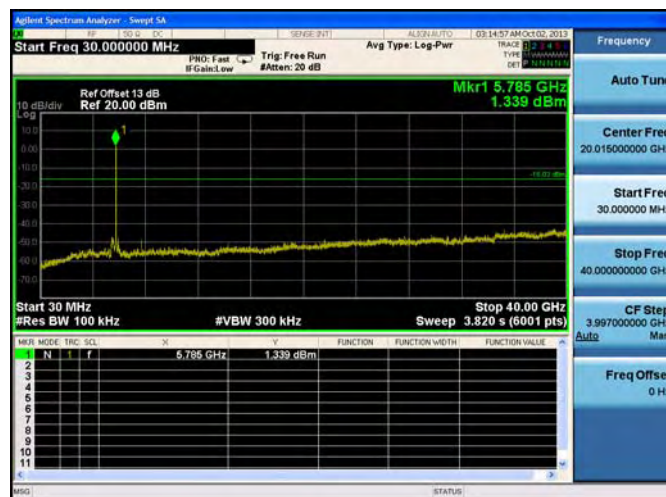


Mode 5: IEEE 802.11a U-NII Band IV Link Mode

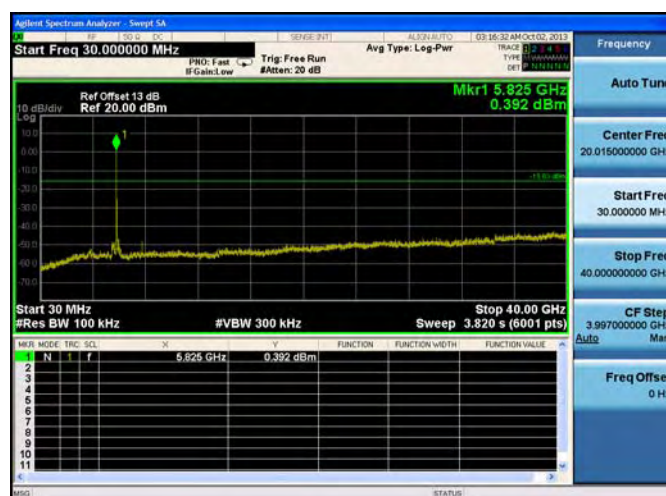
5745



5785

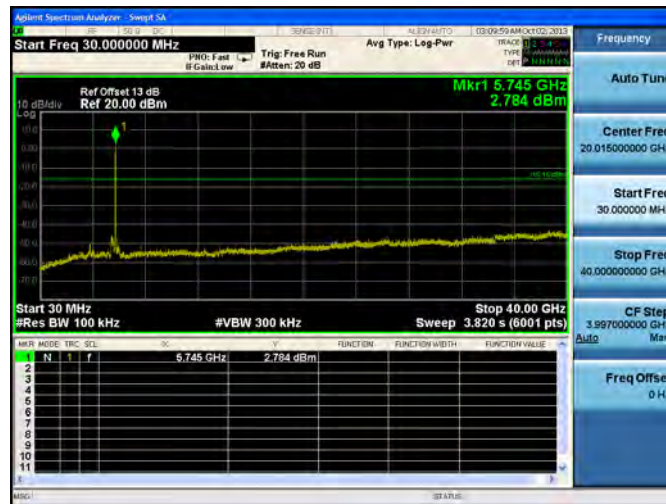


5825

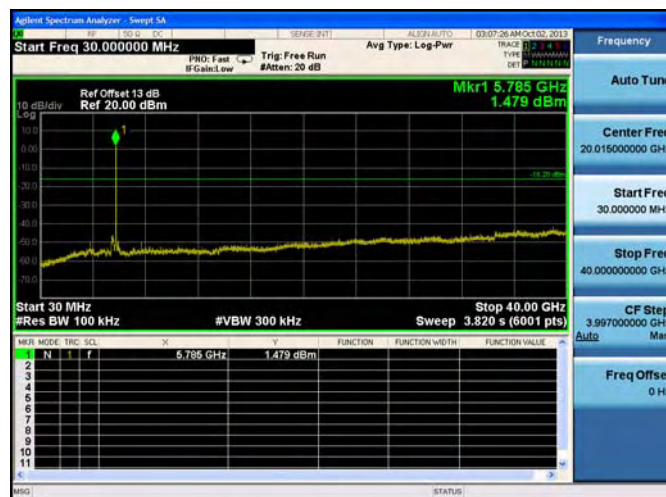


Mode 6: IEEE 802.11n U-NII Band IV 20MHz Link Mode

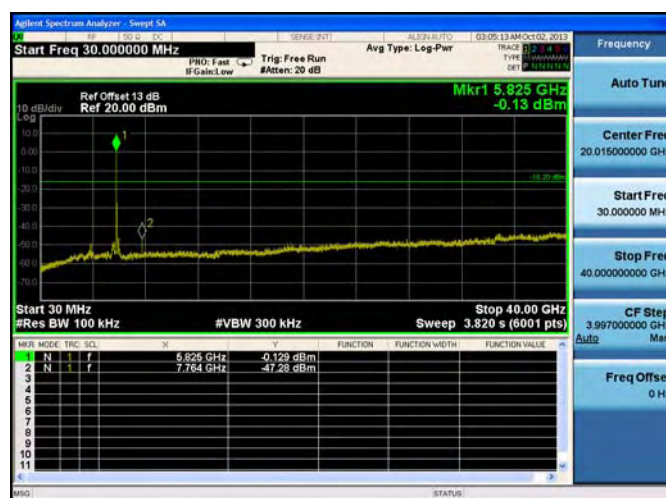
5745



5785



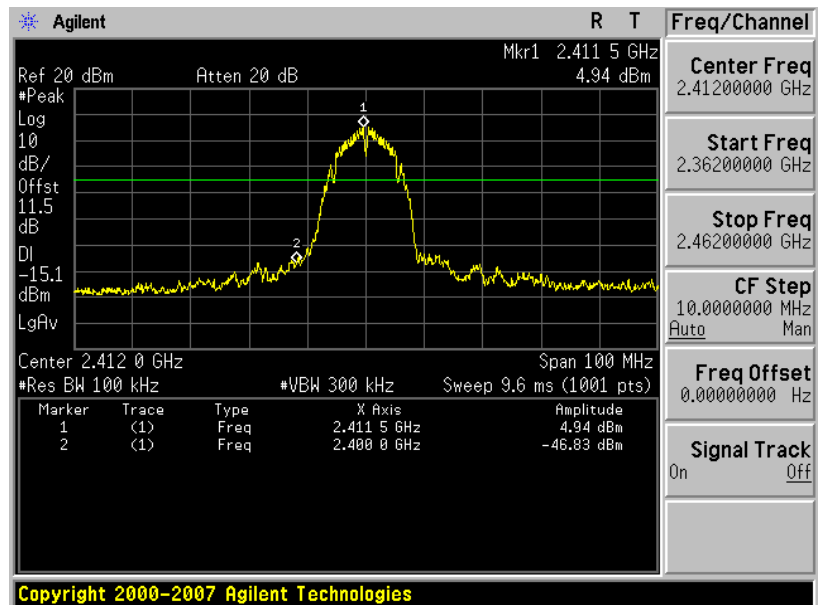
5825



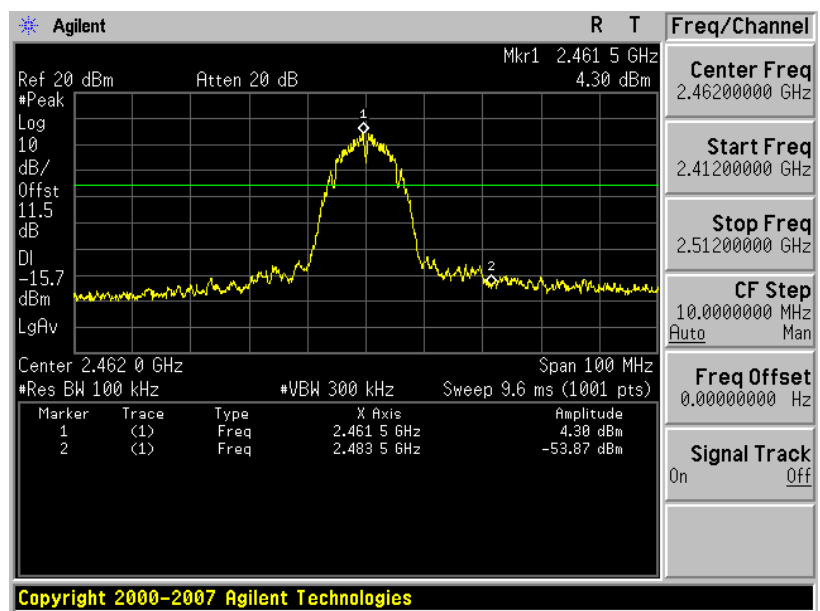
Conducted Band Edge

Mode 2: IEEE 802.11b Link Mode

2412

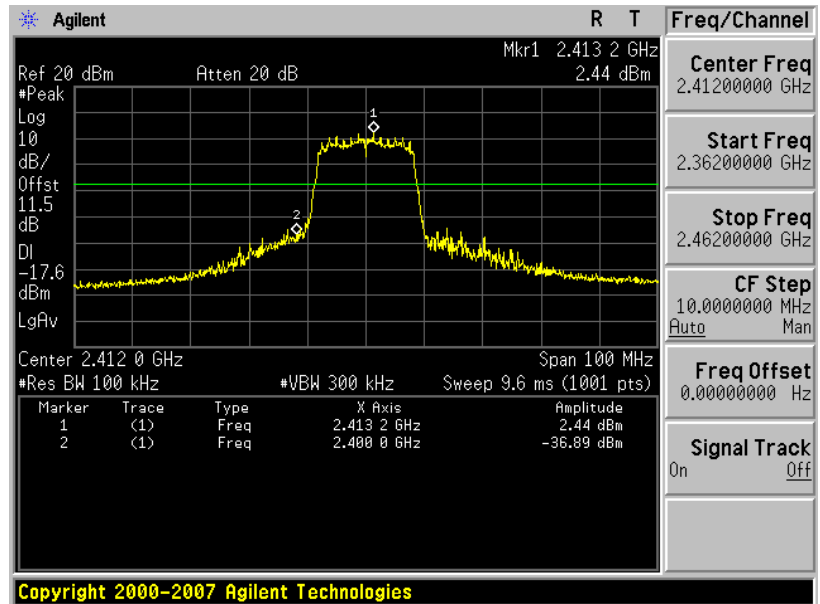


2462

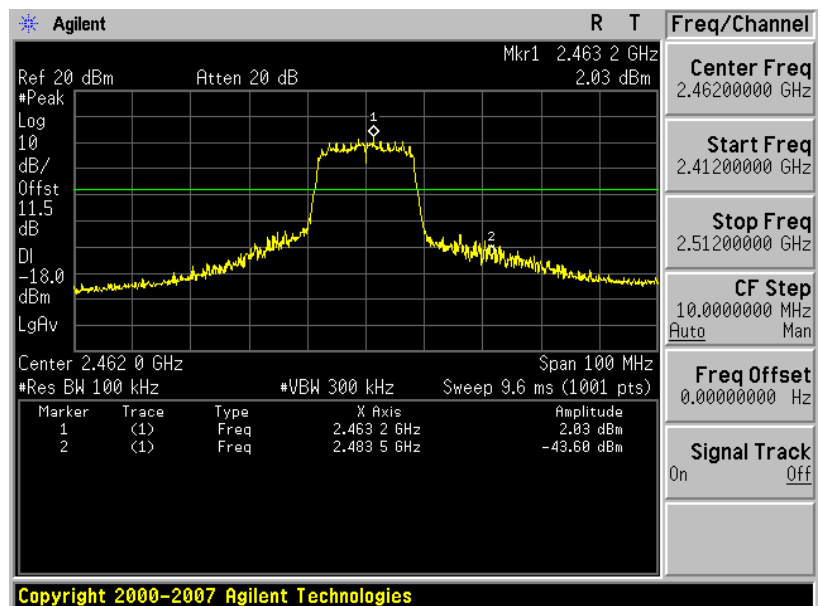


Mode 3: IEEE 802.11g Link Mode

2412

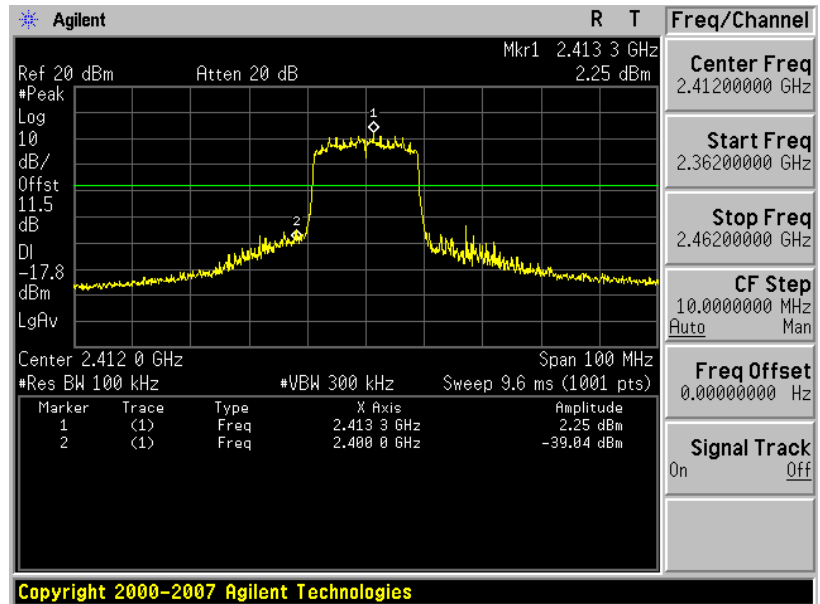


2462

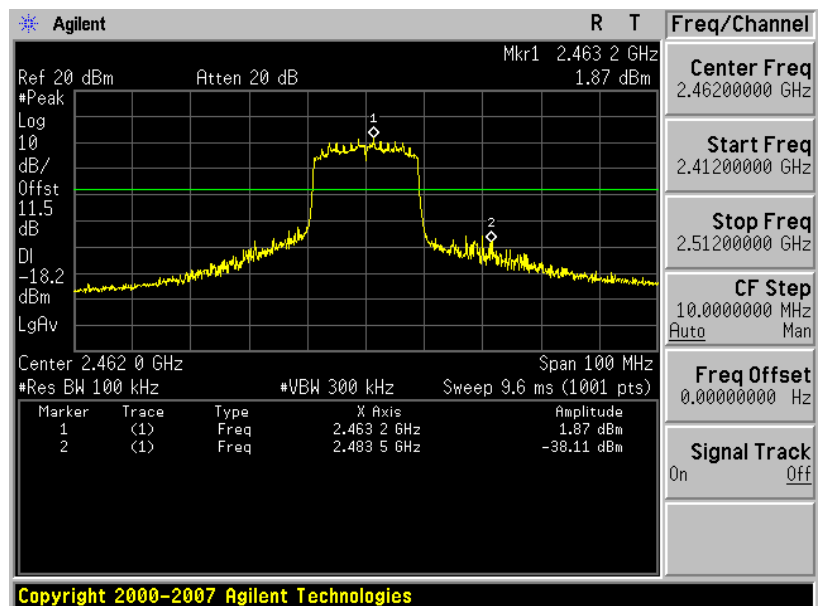


Mode 4: IEEE 802.11n 2.4GHz 20MHz Link Mode

2412

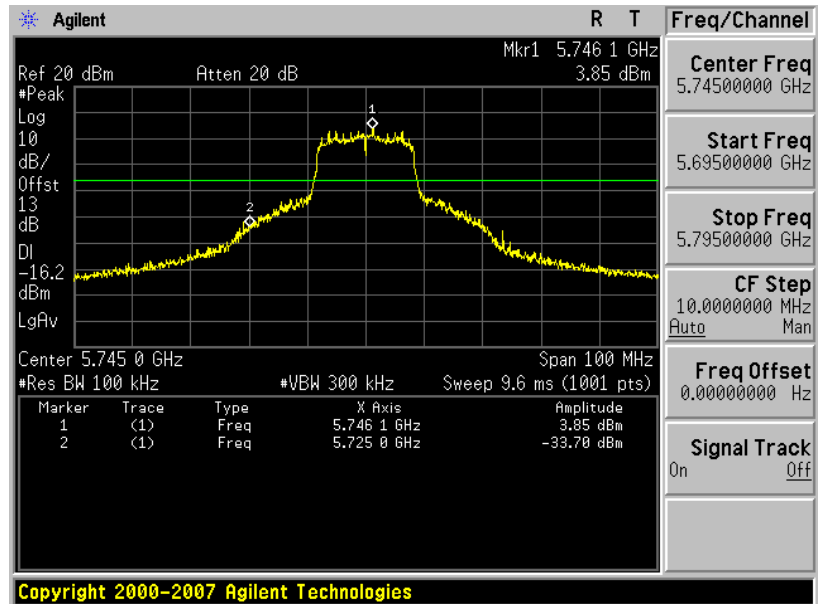


2462

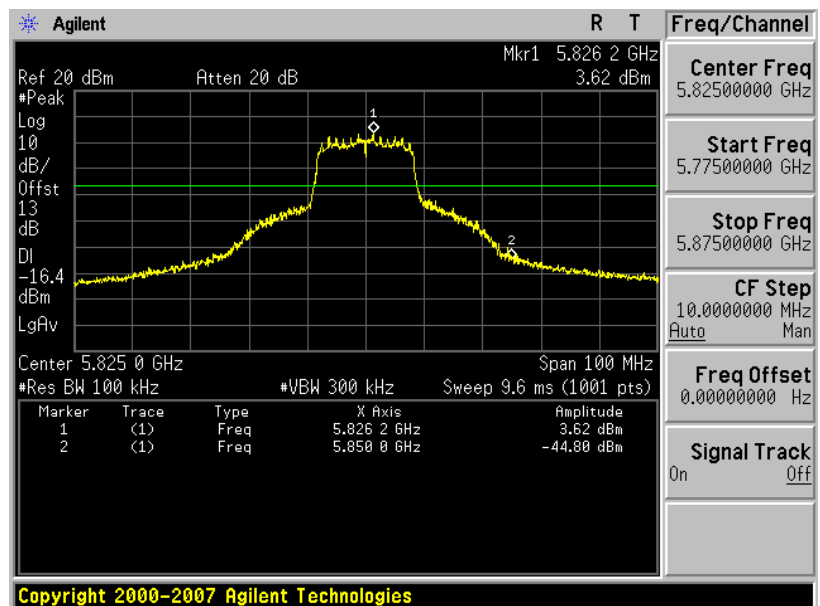


Mode 5: IEEE 802.11a U-NII Band IV Link Mode

5745

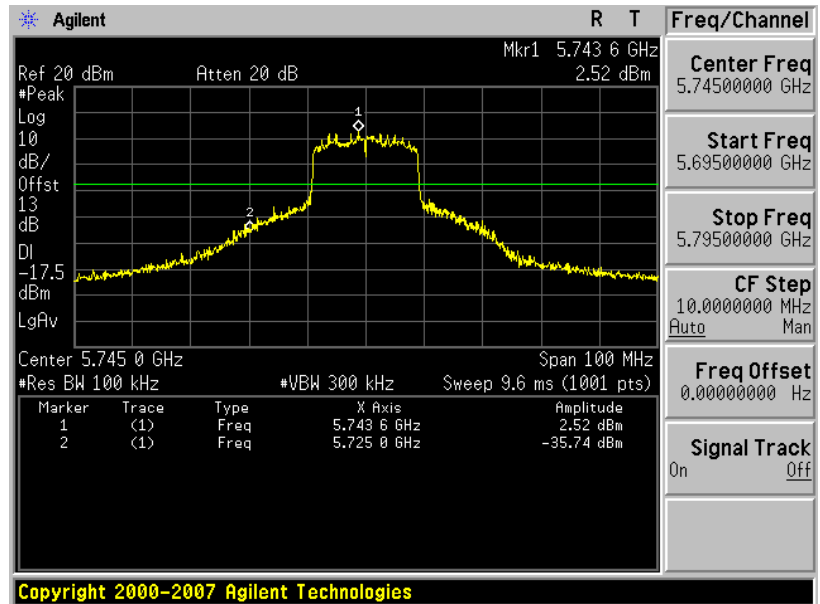


5825

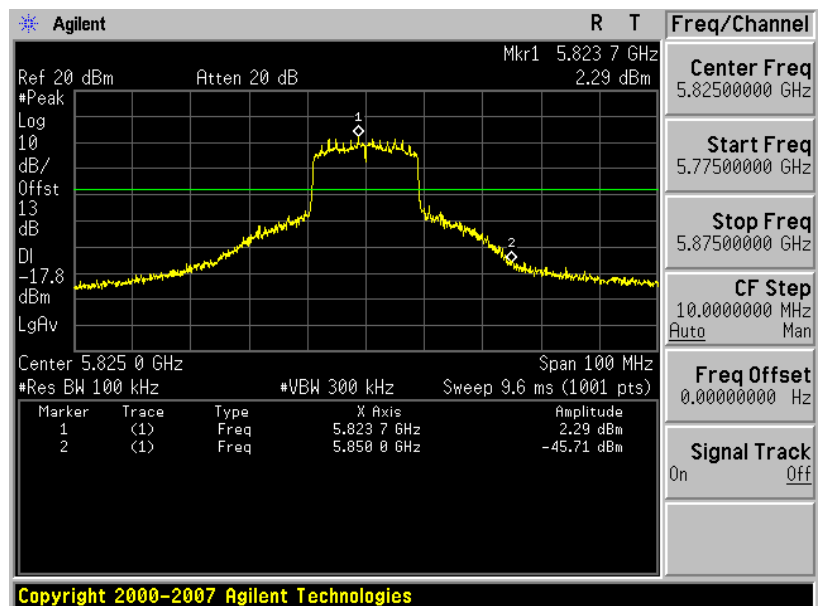


Mode 6: IEEE 802.11n U-NII Band IV 20MHz Link Mode

5745



5825

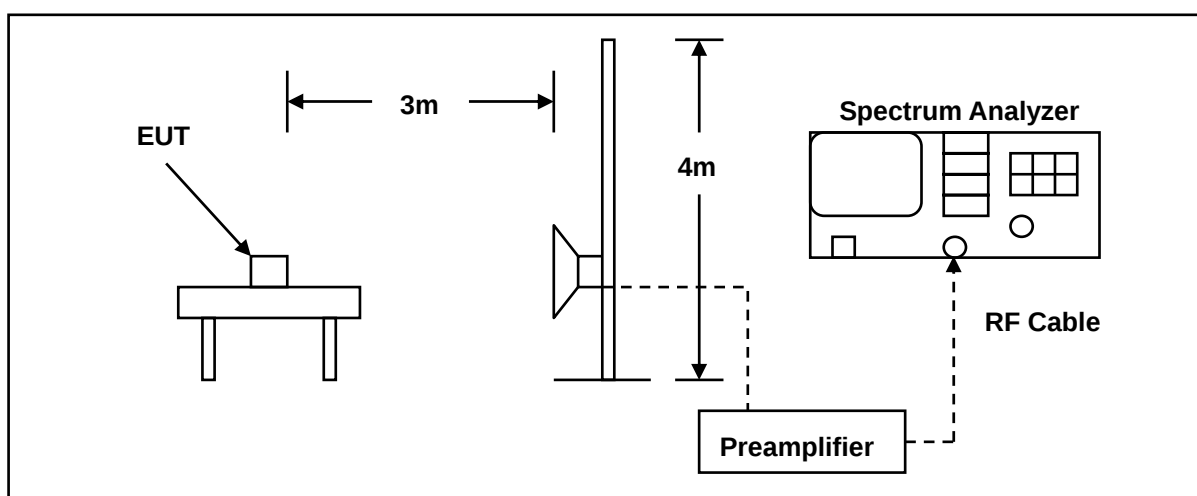


10 Band Edges Measurement

10.1.Limit

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

10.2.Test Setup



10.3.Test Instruments

3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/21/2013	(1)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/21/2013	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/21/2013	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/21/2013	(1)
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	07/16/2013	(1)
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/10/2013	(1)
Test Site	ATL	TE01	888001	08/27/2013	(1)

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years. (3) Calibration period 3 years.

Note: N.C.R. = No Calibration Request.

10.4. Test Procedure

The EUT was setup to ANSI C63.4, 2009; tested to DTS test procedure of Oct 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The emissions on the harmonics frequencies, the limits, and the margin of compliance are presented. These tests were made when the transmitter was in full radiated power. The additional test was performed to show compliance with the requirement at the band-edge frequency 2483.5 MHz and up to 2500 MHz and at 2390.0 MHz.

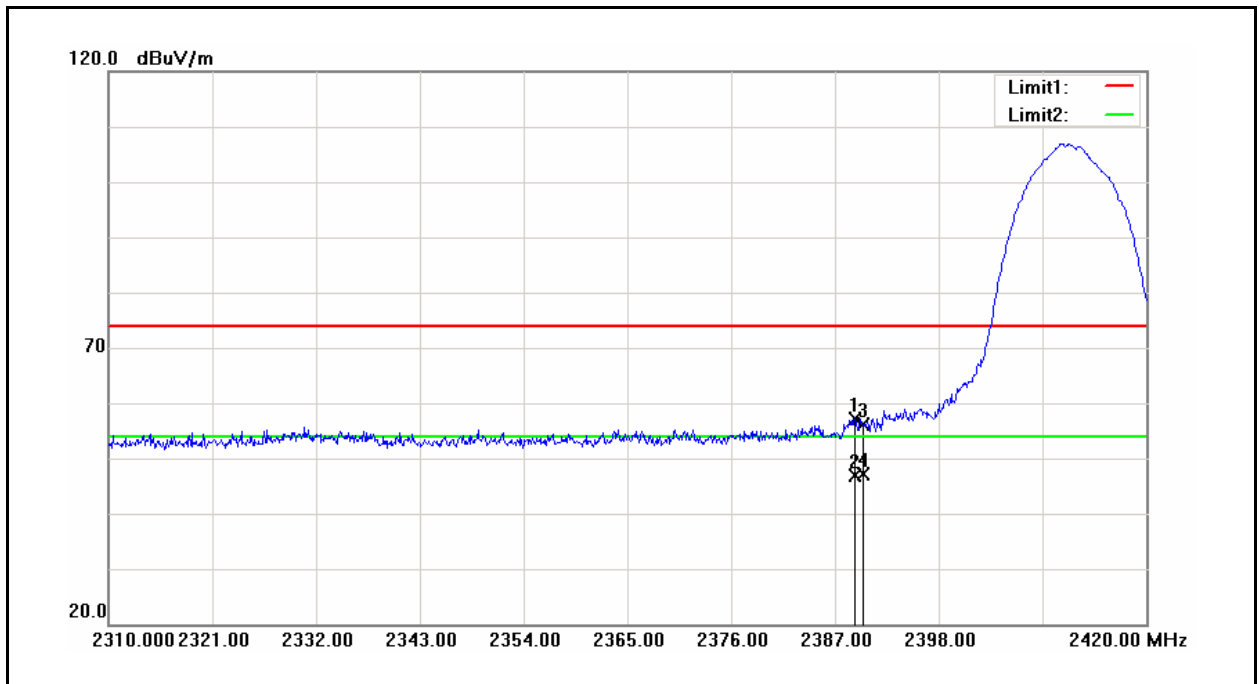
The transmitter was configured with the worst case antenna and setup to transmit at the highest channel. Then the field strength was measured at 2483.5 MHz.

The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel. Then the field strength was measured at 2390.0 MHz. These tests were performed at 4 different bit rates.

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

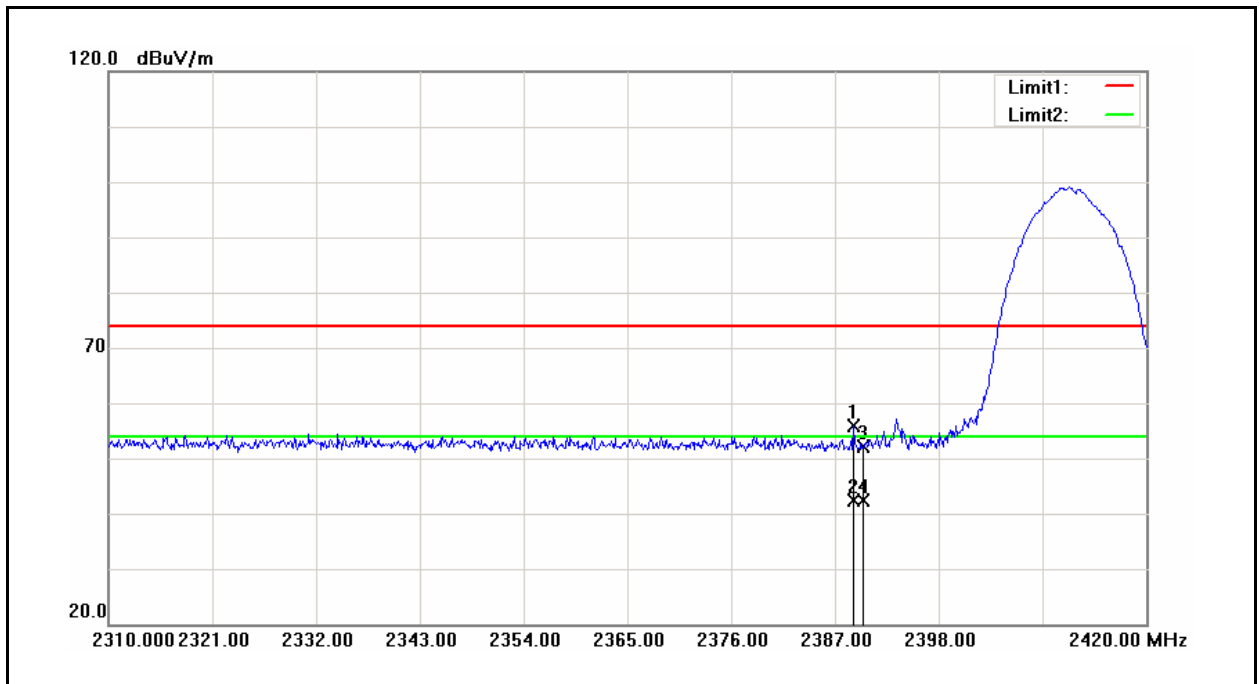
10.5. Test Result

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	B360	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	2	Date:	09/24/2013
Frequency:	2412 MHz	Test By:	Fly Lu
Ant.Polar.:	Horizontal		



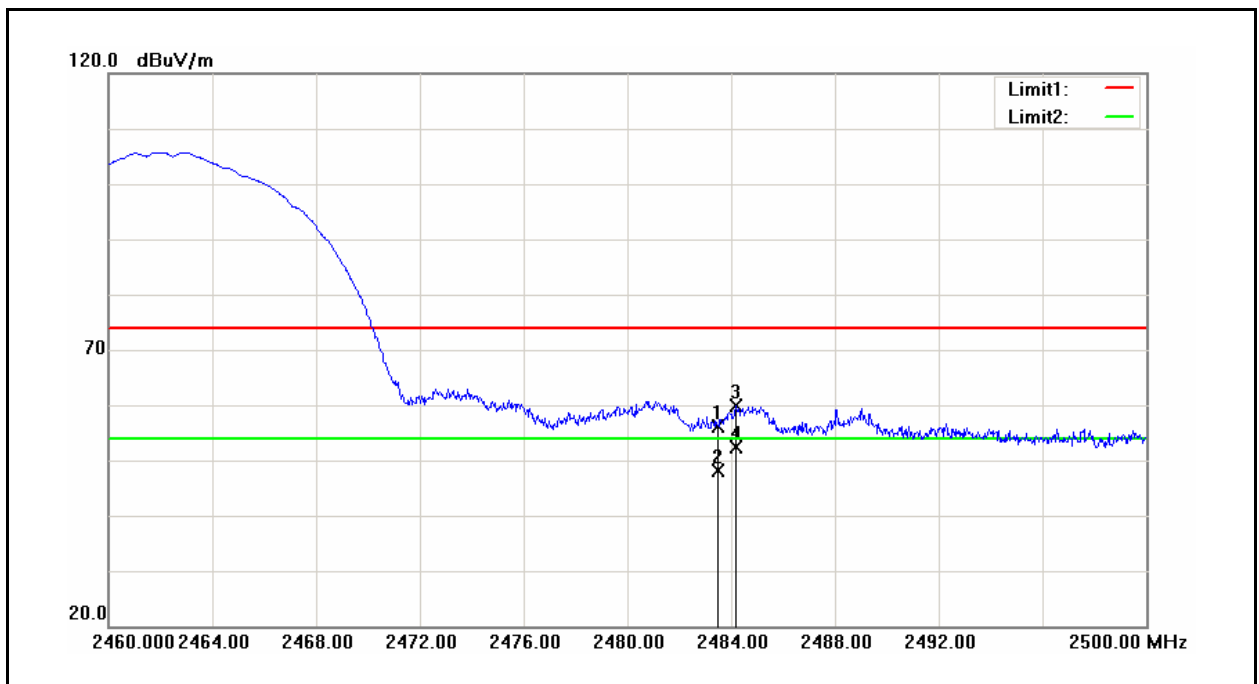
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.090	53.14	3.88	57.02	74.00	-16.98	peak
2	2389.090	43.00	3.88	46.88	54.00	-7.12	AVG
3	2390.000	52.32	3.88	56.20	74.00	-17.80	peak
4	2390.000	43.25	3.88	47.13	54.00	-6.87	AVG

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	B360	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	2	Date:	09/24/2013
Frequency:	2412 MHz	Test By:	Fly Lu
Ant.Polar.:	Vertical		



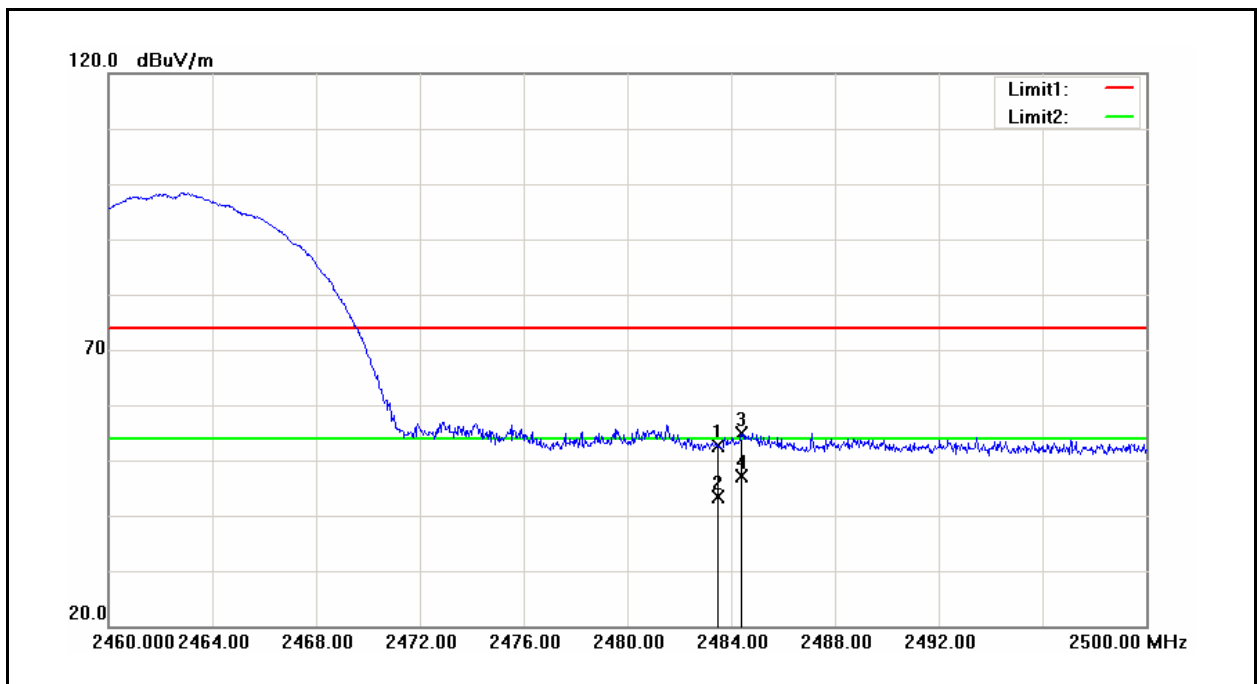
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.980	52.00	3.88	55.88	74.00	-18.12	peak
2	2388.980	38.43	3.88	42.31	54.00	-11.69	AVG
3	2390.000	48.35	3.88	52.23	74.00	-21.77	peak
4	2390.000	38.56	3.88	42.44	54.00	-11.56	AVG

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	B360	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	2	Date:	09/24/2013
Frequency:	2462 MHz	Test By:	Fly Lu
Ant.Polar.:	Horizontal		



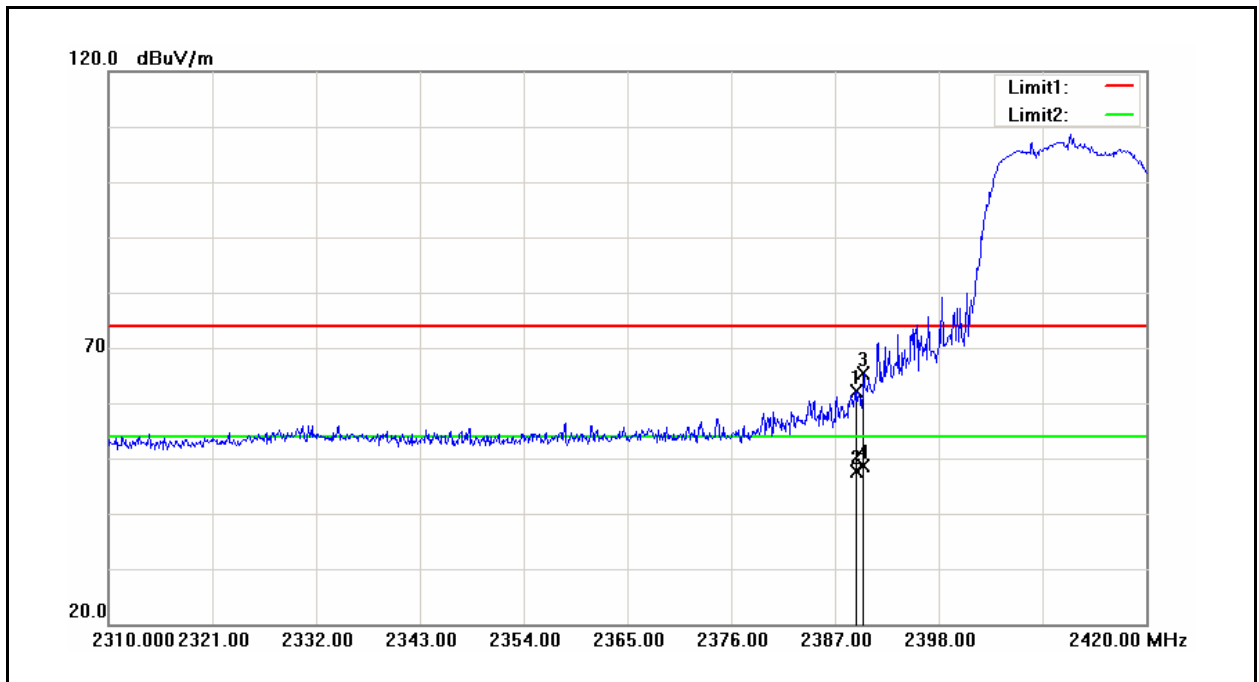
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	51.65	4.50	56.15	74.00	-17.85	peak
2	2483.500	43.51	4.50	48.01	54.00	-5.99	AVG
3	2484.200	55.48	4.51	59.99	74.00	-14.01	peak
4	2484.200	47.76	4.51	52.27	54.00	-1.73	AVG

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	B360	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	2	Date:	09/24/2013
Frequency:	2462 MHz	Test By:	Fly Lu
Ant.Polar.:	Vertical		



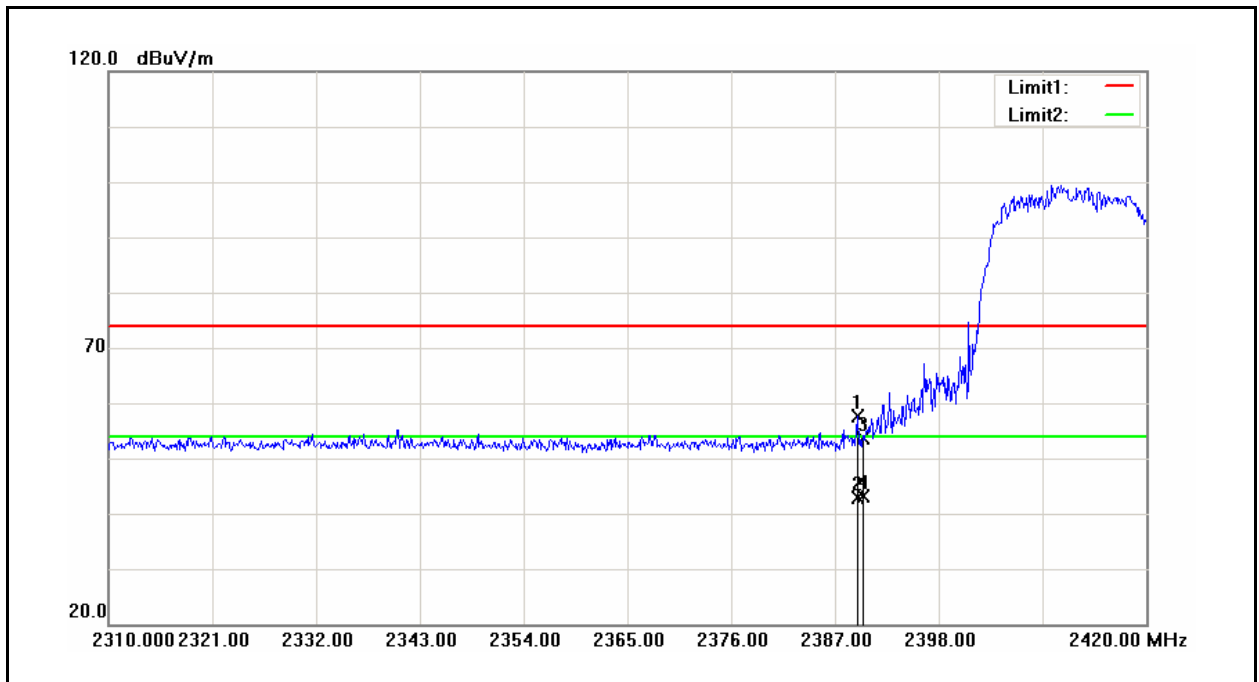
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	48.18	4.50	52.68	74.00	-21.32	peak
2	2483.500	38.90	4.50	43.40	54.00	-10.60	AVG
3	2484.400	50.38	4.51	54.89	74.00	-19.11	peak
4	2484.400	42.56	4.51	47.07	54.00	-6.93	AVG

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	B360	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	3	Date:	09/24/2013
Frequency:	2412 MHz	Test By:	Fly Lu
Ant.Polar.:	Horizontal		



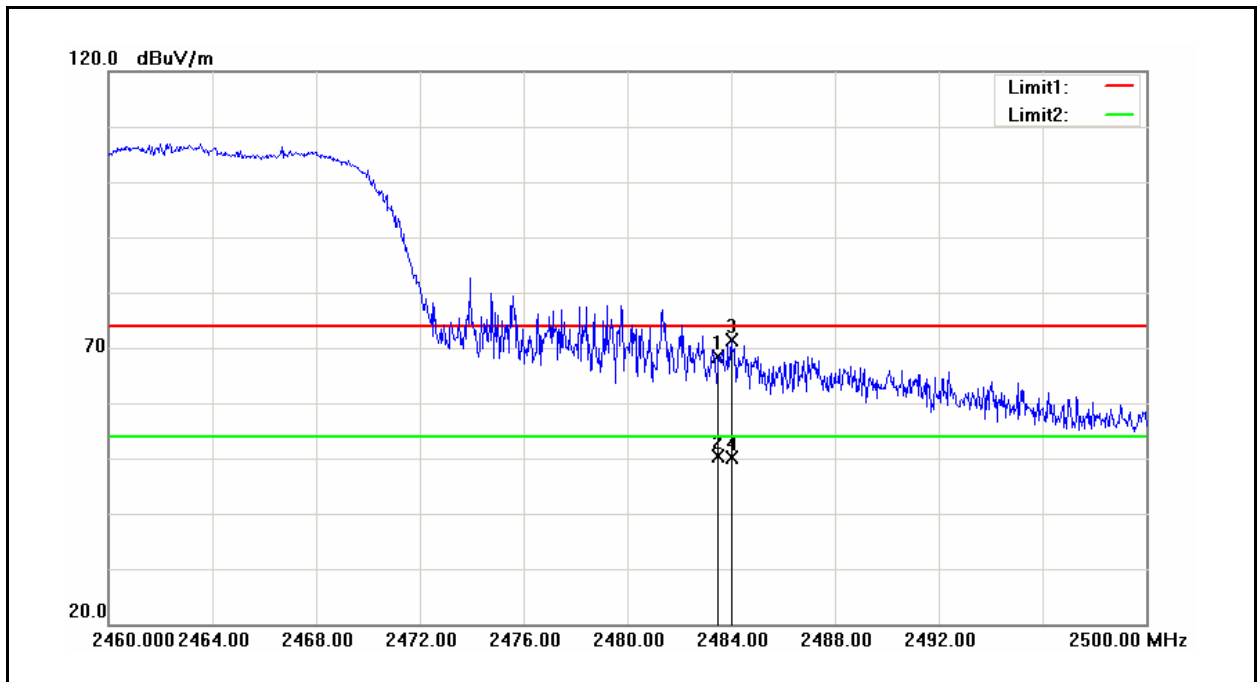
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.200	58.15	3.88	62.03	74.00	-11.97	peak
2	2389.200	43.83	3.88	47.71	54.00	-6.29	AVG
3	2390.000	61.50	3.88	65.38	74.00	-8.62	peak
4	2390.000	44.65	3.88	48.53	54.00	-5.47	AVG

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	B360	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	3	Date:	09/24/2013
Frequency:	2412 MHz	Test By:	Fly Lu
Ant.Polar.:	Vertical		



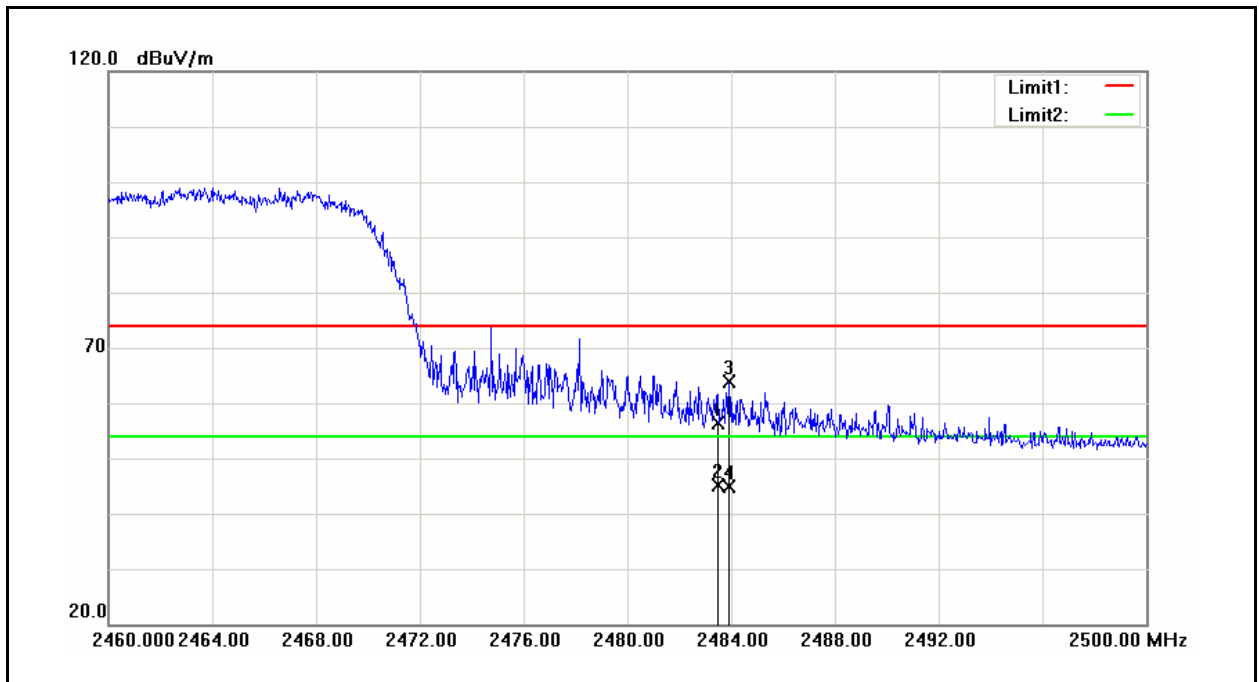
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.420	53.75	3.88	57.63	74.00	-16.37	peak
2	2389.420	38.95	3.88	42.83	54.00	-11.17	AVG
3	2390.000	49.83	3.88	53.71	74.00	-20.29	peak
4	2390.000	39.37	3.88	43.25	54.00	-10.75	AVG

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	B360	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	3	Date:	09/24/2013
Frequency:	2462 MHz	Test By:	Fly Lu
Ant.Polar.:	Horizontal		



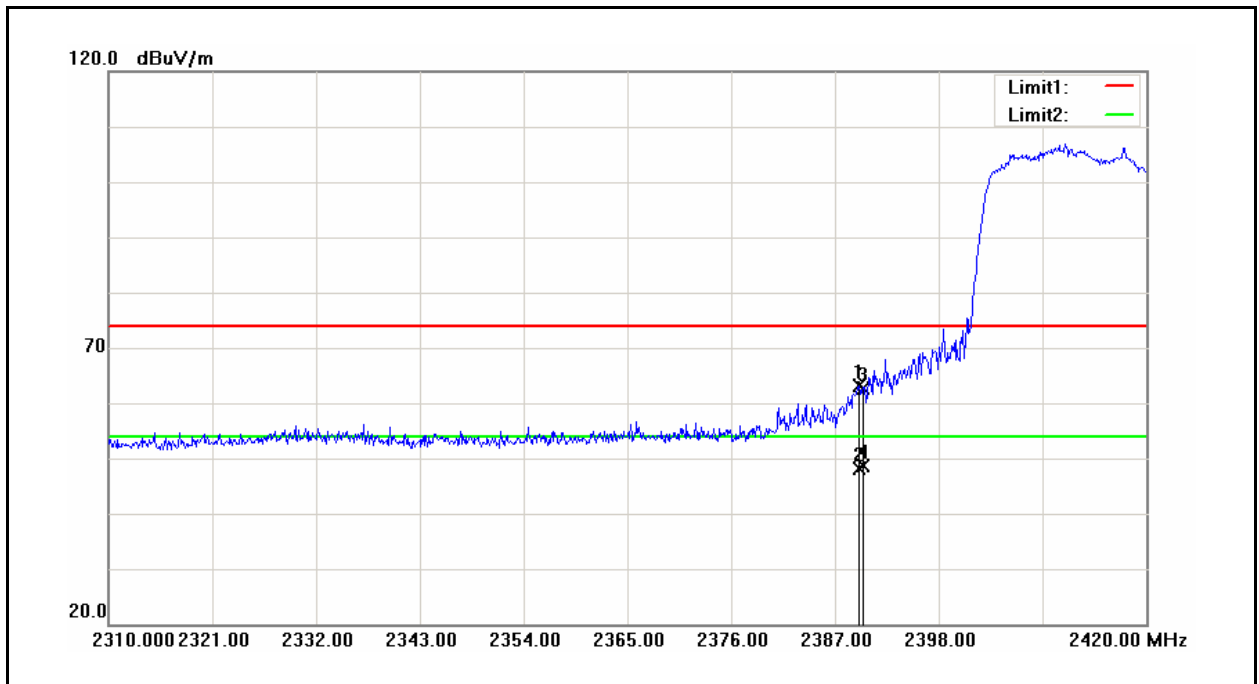
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	63.90	4.50	68.40	74.00	-5.60	peak
2	2483.500	45.98	4.50	50.48	54.00	-3.52	AVG
3	2484.000	66.89	4.51	71.40	74.00	-2.60	peak
4	2484.000	45.60	4.51	50.11	54.00	-3.89	AVG

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	B360	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	3	Date:	09/24/2013
Frequency:	2462 MHz	Test By:	Fly Lu
Ant.Polar.:	Vertical		



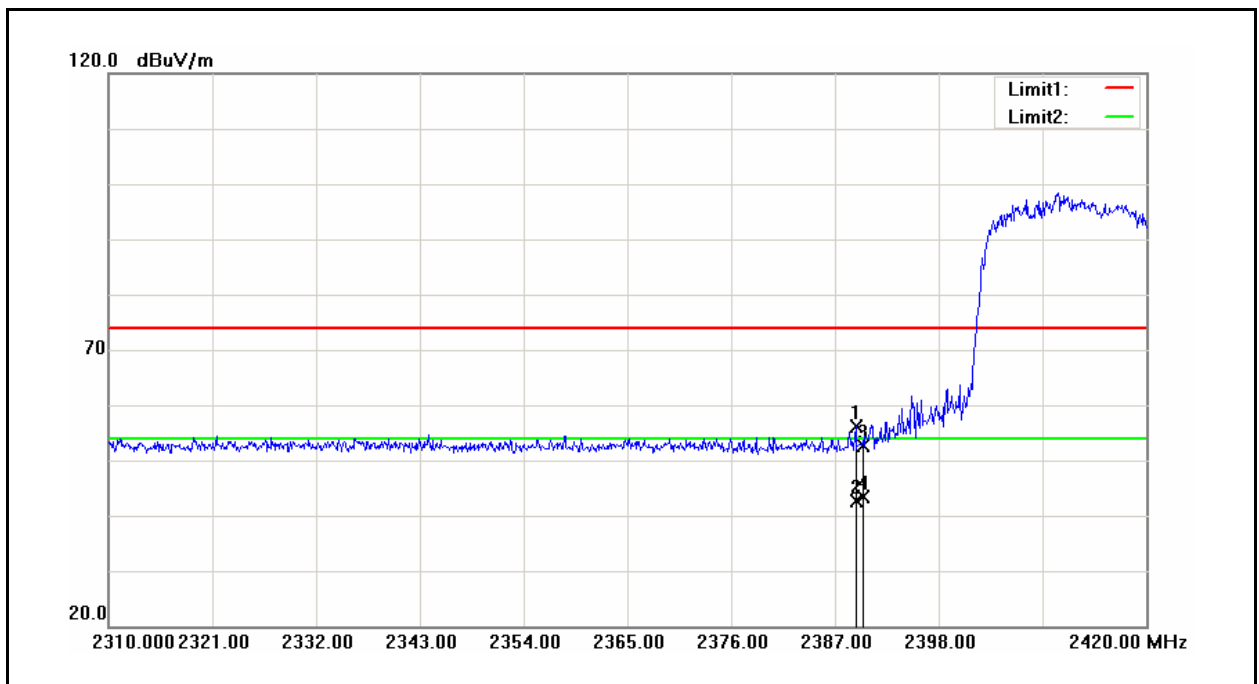
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	51.90	4.50	56.40	74.00	-17.60	peak
2	2483.500	40.75	4.50	45.25	54.00	-8.75	AVG
3	2483.920	59.34	4.51	63.85	74.00	-10.15	peak
4	2483.920	40.37	4.51	44.88	54.00	-9.12	AVG

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	B360	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4	Date:	09/24/2013
Frequency:	2412 MHz	Test By:	Fly Lu
Ant.Polar.:	Horizontal		



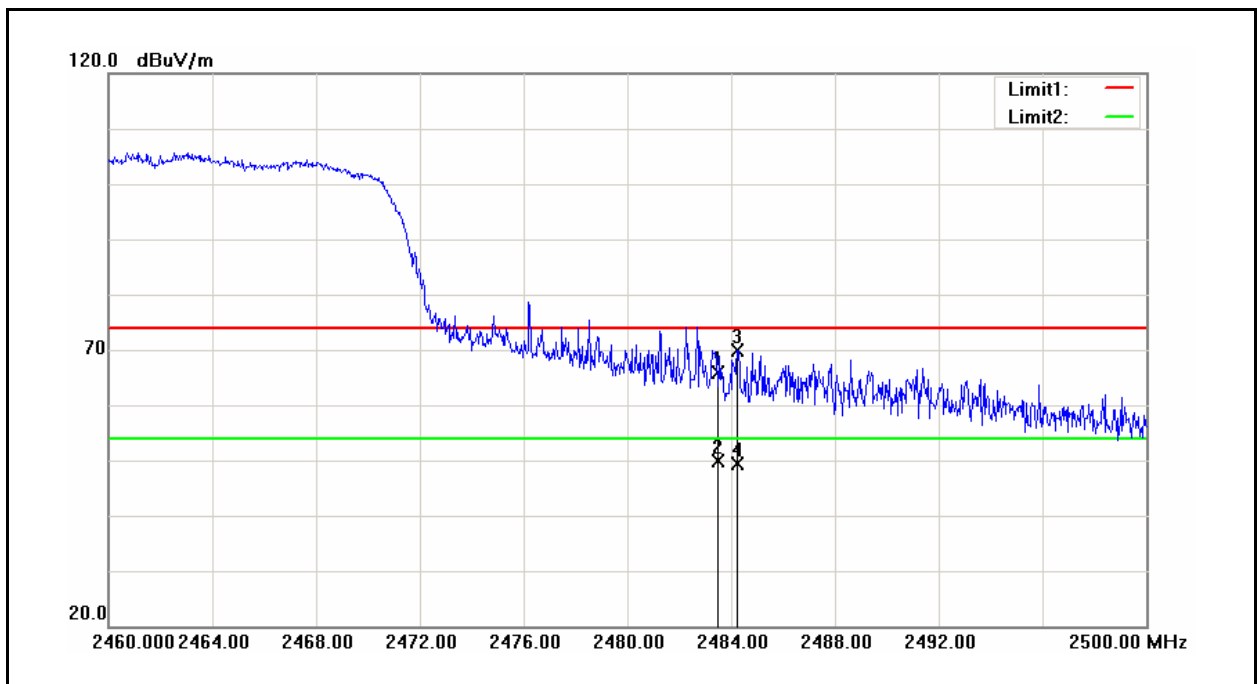
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.530	59.25	3.88	63.13	74.00	-10.87	peak
2	2389.530	44.27	3.88	48.15	54.00	-5.85	AVG
3	2390.000	58.82	3.88	62.70	74.00	-11.30	peak
4	2390.000	44.72	3.88	48.60	54.00	-5.40	AVG

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	B360	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4	Date:	09/24/2013
Frequency:	2412 MHz	Test By:	Fly Lu
Ant.Polar.:	Vertical		



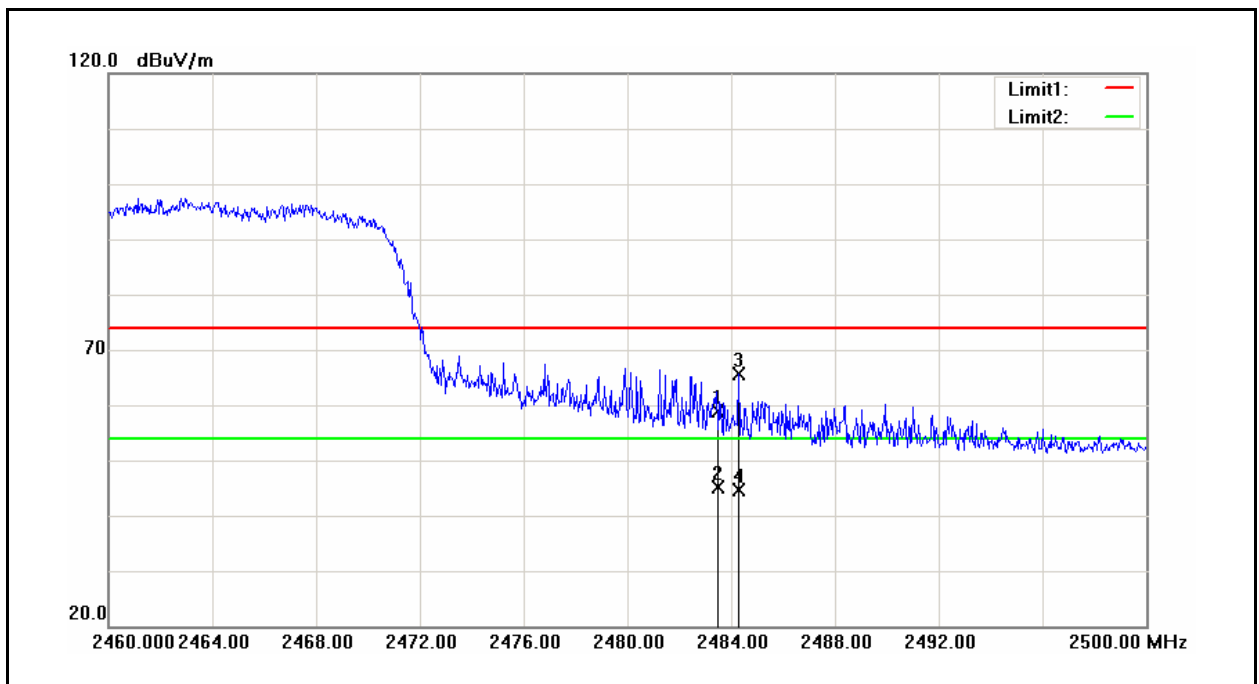
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.200	52.17	3.88	56.05	74.00	-17.95	peak
2	2389.200	38.86	3.88	42.74	54.00	-11.26	AVG
3	2390.000	48.63	3.88	52.51	74.00	-21.49	peak
4	2390.000	39.41	3.88	43.29	54.00	-10.71	AVG

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	B360	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4	Date:	09/24/2013
Frequency:	2462 MHz	Test By:	Fly Lu
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	61.34	4.50	65.84	74.00	-8.16	peak
2	2483.500	45.49	4.50	49.99	54.00	-4.01	AVG
3	2484.240	65.38	4.51	69.89	74.00	-4.11	peak
4	2484.240	44.94	4.51	49.45	54.00	-4.55	AVG

Standard:	FCC Part 15C	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	B360	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	4	Date:	09/24/2013
Frequency:	2462 MHz	Test By:	Fly Lu
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	54.40	4.50	58.90	74.00	-15.10	peak
2	2483.500	40.72	4.50	45.22	54.00	-8.78	AVG
3	2484.280	61.04	4.51	65.55	74.00	-8.45	peak
4	2484.280	40.06	4.51	44.57	54.00	-9.43	AVG

11 Antenna Measurement

11.1.Limit

For intentional device, according to 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And According to 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2.Antenna Connector Construction

The antenna used in this product is Chip antenna. And the maximum Gain of this antenna is as below:

2.4GHz: 1.78594 dBi, 5GHz: 3.74794 dBi