



**MET Laboratories, Inc.** *Safety Certification - EMI - Telecom Environmental Simulation*

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May 12, 2016

Electronic Systems Technology  
415 N. Quay Street  
Kennewick, WA 99336

Dear Todd Elliott,

Enclosed is the EMC Wireless test report for compliance testing of the Electronic Systems Technology, Horizon / 216AN as tested to the requirements of Title 47 of the CFR, Ch. 1 (10-1-06 ed.), Part 15 Subpart C for Intentional Radiators.

Thank you for using the services of MET Laboratories, Inc. If you have any questions regarding these results or if MET can be of further service to you, please feel free to contact me.

Sincerely yours,  
MET LABORATORIES, INC.

Jennifer Warnell  
Documentation Department

Reference: (\Electronic Systems Technology\EMCS88357-FCC247 Rev. 3)

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## **Electromagnetic Compatibility Criteria Test Report**

for the

**Electronic Systems Technology  
Horizon / 216AN**

**Tested under**  
the FCC Certification Rules  
contained in  
15.247 Subpart C for Intentional Radiators

**MET Report: EMCS88357-FCC247 Rev. 3**

May 12, 2016

**Prepared For:**

**Electronic Systems Technology  
415 N. Quay Street  
Kennewick, WA 99336**

**Prepared By:**  
**MET Laboratories, Inc.**  
914 W. Patapsco Ave.  
Baltimore, MD 21230

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**Electronic Systems Technology  
Horizon / 216AN**

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contained in  
15.247 Subpart C for Intentional Radiators



Arsalan Hasan, Project Engineer  
Electromagnetic Compatibility Lab



Jennifer Warnell  
Documentation Department

**Engineering Statement:** The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of the FCC Rules Part 15.247 under normal use and maintenance.



Asad Bajwa,  
Director, Electromagnetic Compatibility Lab

## Report Status Sheet

Revision	Report Date	Reason for Revision
∅	March 14, 2016	Initial Issue.
1	April 12, 2016	Editorial correction.
2	May 5, 2016	Removed 802.11b 40 MHz references.
3	May 12, 2016	Updated MPE.

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## List of Terms and Abbreviations

AC	Alternating Current
ACF	Antenna Correction Factor
Cal	Calibration
<i>d</i>	Measurement Distance
dB	Decibels
dB $\mu$ A	Decibels above one <b>microamp</b>
dB $\mu$ V	Decibels above one <b>microvolt</b>
dB $\mu$ A/m	Decibels above one <b>microamp per meter</b>
dB $\mu$ V/m	Decibels above one <b>microvolt per meter</b>
DC	Direct Current
E	Electric Field
DSL	Digital Subscriber Line
ESD	Electrostatic Discharge
EUT	Equipment Under Test
<i>f</i>	Frequency
FCC	Federal Communications Commission
GRP	Ground Reference Plane
H	Magnetic Field
HCP	Horizontal Coupling Plane
Hz	Hertz
IEC	International Electrotechnical Commission
kHz	kilohertz
kPa	kilopascal
kV	kilovolt
LISN	Line Impedance Stabilization Network
MHz	Megahertz
$\mu$ H	microhenry
$\mu$	microfarad
$\mu$ s	microseconds
NEBS	Network Equipment-Building System
PRF	Pulse Repetition Frequency
RF	Radio Frequency
RMS	Root-Mean-Square
TWT	Traveling Wave Tube
V/m	Volts per meter
VCP	Vertical Coupling Plane



# I. Executive Summary

## A. Purpose of Test

An EMC evaluation was performed to determine compliance of the Electronic Systems Technology Horizon / 216AN, with the requirements of Part 15, §15.247. All references are to the most current version of Title 47 of the Code of Federal Regulations in effect. In accordance with §2.1033, the following data is presented in support of the Certification of the Horizon / 216AN. Electronic Systems Technology should retain a copy of this document which should be kept on file for at least two years after the manufacturing of the Horizon / 216AN, has been **permanently** discontinued.

## B. Executive Summary

The following tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15, §15.247, in accordance with Electronic Systems Technology, purchase order number 2478. All tests were conducted using measurement procedure ANSI C63.4-2014.

FCC Reference 47 CFR Part 15.247:2005	Description	Compliance
Title 47 of the CFR, Part 15 §15.203	Antenna Requirement	Compliant
Title 47 of the CFR, Part 15 §15.207(a)	Conducted Emission Limits	Compliant
Title 47 of the CFR, Part 15 §15.247(a)(2)	6dB Occupied Bandwidth	Compliant
Title 47 of the CFR, Part 15 §15.247(b)	Peak Power Output	Compliant
Title 47 of the CFR, Part 15 §15.247(d); §15.209; §15.205	Radiated Spurious Emissions Requirements	Compliant
Title 47 of the CFR, Part 15 §15.247(d)	RF Conducted Spurious Emissions Requirements	Compliant
Title 47 of the CFR, Part 15 §15.247(d)	RF Conducted Band Edge	Compliant
Title 47 of the CFR, Part 15; §15.247(e)	Peak Power Spectral Density	Compliant
Title 47 of the CFR, Part 15 §15.247(i)	Maximum Permissible Exposure (MPE)	Compliant

**Table 1. Executive Summary of EMC Part 15.247 Compliance Testing**

## II. Equipment Configuration

## A. Overview

MET Laboratories, Inc. was contracted by Electronic Systems Technology to perform testing on the Horizon / 216AN, under Electronic Systems Technology's purchase order number 2478.

This document describes the test setups, test methods, required test equipment, and the test limit criteria used to perform compliance testing of the Electronic Systems Technology, Horizon / 216AN.

The results obtained relate only to the item(s) tested.

<b>Model(s) Tested:</b>	Horizon / 216AN	
<b>Model(s) Covered:</b>	Horizon / 216AN	
<b>EUT Specifications:</b>	Primary Power: 120 VAC	
	FCC ID: ENPHZN216AN	
	Type of Modulations:	OFDM / CCK
	Peak RF Output Power:	29.65 dBm @ 2437 MHz
	EUT Frequency Ranges:	2412 MHz to 2462 MHz
<b>Analysis:</b>	The results obtained relate only to the item(s) tested.	
<b>Environmental Test Conditions:</b>	Temperature: 15-35° C	
	Relative Humidity: 30-60%	
	Barometric Pressure: 860-1060 mbar	
<b>Evaluated by:</b>	Arsalan Hasan	
<b>Report Date(s):</b>	May 3, 2016	

**Table 2. EUT Summary Table**

## B. References

<b>CFR 47, Part 15, Subpart C</b>	Federal Communication Commission, Code of Federal Regulations, Title 47, Part 15: General Rules and Regulations, Allocation, Assignment, and Use of Radio Frequencies
<b>ANSI C63.4:2014</b>	Methods and Measurements of Radio-Noise Emissions from Low-Voltage Electrical And Electronic Equipment in the Range of 9 kHz to 40 GHz
<b>ISO/IEC 17025:2005</b>	General Requirements for the Competence of Testing and Calibration Laboratories
<b>ANSI C63.10-2013</b>	American National Standard for Testing Unlicensed Wireless Devices

**Table 3. References**

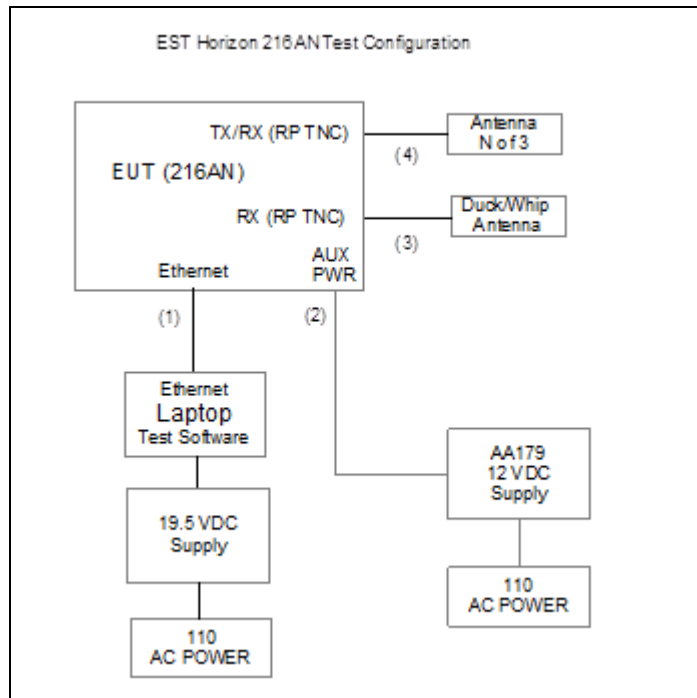
**C. Test Site**

All testing was performed at MET Laboratories, Inc., 3162 Belick St., Santa Clara, CA 95054. All equipment used in making physical determinations is accurate and bears recent traceability to the National Institute of Standards and Technology.

Radiated Emissions measurements were performed in a 3 meter semi-anechoic chamber (equivalent to an Open Area Test Site). In accordance with §2.948(a)(3), a complete site description is contained at MET Laboratories.

**D. Description of Test Sample**

The Electronic Systems Technology Horizon / 216AN, Equipment Under Test (EUT), is a wireless LAN device used in Industrial, Public Safety, and Federal Government applications. Installation of the device is typically outdoors in a fixed location. Installation details are clearly outlined in the installation manual.



**Figure 1. Block Diagram of Test Configuration**

Note: The three different antennas are placed one by one on the Tx/Rx port for your conducting tests while a Duck/Whip antenna is placed on Rx for all configurations. This Duck antenna serves as a 50 Ohm matched load to terminate the Rx port.



**Photograph 1. Omni Antenna**



**Photograph 2. Yagi Antenna**



**Photograph 3. Parabolic Antenna**

**E. Equipment Configuration**

The EUT was set up as outlined in Figure 1, Block Diagram of Test Setup. All cards, racks, etc., incorporated as part of the EUT is included in the following list.

Ref. ID	Name / Description	Model Number	Part Number	Serial Number	Revision
--	Horizon 2.4 GHz	216AN	NA	A-23989	0
2	AA179 12VDC Power Supply	CENB1060A1265F02	AA179	NA	--
3	AA20DMEg Antenna	--	--	--	--
4	AA20DMEg Antenna	--	--	--	--
4	AA203Eg Antenna	--	--	--	--
4	AA204Eg Antenna	--	--	--	--
	AA195PM Pole Mount Kit	--	--	--	--

**Table 4. Equipment Configuration**

## F. Support Equipment

Support equipment necessary for the operation and testing of the EUT is included in the following list.

Ref. ID	Name / Description	Manufacturer	Model Number
--	Laptop	Dell	Inspiron 1150
--	Laptop Power Supply	Dell	ADP-65JB B

**Table 5. Support Equipment**

## G. Ports and Cabling Information

Ref. ID	Port Name on EUT	Cable Description	Qty.	Length (m)	Shielded (Y/N)	Termination Point
3	RX	Receive-only antenna port (RP TNC)	1	NA	--	--
4	TX	Transmit / Receive antenna port (RP TNC)	3	1	--	--
2	Aux Pwr	12VDC Power Input	1	1	--	--
1	Ethernet 10/100/1000	RJ-45 Ethernet Connection	2	2	--	--

**Table 6. Ports and Cabling Information**

## H. Mode of Operation

Channel Selection: Low, Mid, High  
 TX Power: Low, Mid, High, Custom  
 Channel Bandwidth: 5, 10, 20, 40 MHz  
 Modulation/Rate: DSSS 1.11 Mbps, OFDM 6.54 Mbps

## I. Method of Monitoring EUT Operation

TX led indicates that the EUT is transmitting  
 RX led indicates that the EUT is receiving  
 Green Ethernet led indicates Ethernet Link established  
 Yellow Ethernet led indicates Ethernet activity  
 Aux PWR led indicates 12V aux power supply

## J. Modifications

### a) Modifications to EUT

No modifications were made to the EUT.

### b) Modifications to Test Standard

No modifications were made to the test standard.

## K. Disposition of EUT

The test sample including all support equipment submitted to the Electro-Magnetic Compatibility Lab for testing was returned to Electronic Systems Technology upon completion of testing.



### **III. Electromagnetic Compatibility Criteria for Intentional Radiators**

## Electromagnetic Compatibility Criteria for Intentional Radiators

### § 15.203 Antenna Requirement

**Test Requirement:** § 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

The structure and application of the EUT were analyzed to determine compliance with Section 15.203 of the Rules. Section 15.203 states that the subject device must meet at least one of the following criteria:

- a.) Antenna must be permanently attached to the unit.
- b.) Antenna must use a unique type of connector to attach to the EUT.
- c.) Unit must be professionally installed. Installer shall be responsible for verifying that the correct antenna is employed with the unit.

**Results:** The EUT as tested is compliant the criteria of §15.203. The EUT had three different antennas and all the antennas had unique type of connectors.

**Test Engineer(s):** Arsalan Hasan

**Test Date(s):** 02/29/16

	Antenna	Gain (dBi)
1	Omni	5
2	Yagi	6
3	Parabolic	15

**Table 7. Antenna Information**

## Electromagnetic Compatibility Criteria for Intentional Radiators

### § 15.207(a) Conducted Emissions Limits

**Test Requirement(s):** § 15.207 (a): 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 30MHz, shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50  $\Sigma$  line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency range (MHz)	§ 15.207(a), Conducted Limit (dB $\mu$ V)	
	Quasi-Peak	Average
* 0.15- 0.45	66 - 56	56 - 46
0.45 - 0.5	56	46
0.5 - 30	60	50

**Table 8. Conducted Limits for Intentional Radiators from FCC Part 15 § 15.207(a)**

**Test Procedure:** The EUT was placed on a 0.8 m-high wooden table inside a screen room. The EUT was situated such that the back of the EUT was 0.4 m from one wall of the vertical ground plane, and the remaining sides of the EUT were no closer than 0.8 m from any other conductive surface. The EUT was powered from a 50  $\Omega$ /50  $\mu$ H Line Impedance Stabilization Network (LISN). The EMC receiver scanned the frequency range from 150 kHz to 30 MHz. Conducted Emissions measurements were made in accordance with *ANSI C63.4-2014 "Methods and Measurements of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40 GHz"*. The measurements were performed over the frequency range of 0.15 MHz to 30 MHz using a 50  $\Omega$ /50  $\mu$ H LISN as the input transducer to an EMC/field intensity meter. For the purpose of this testing, the transmitter was turned on. Scans were performed with the transmitter on.

**Test Results:** The EUT was compliant with this requirement.

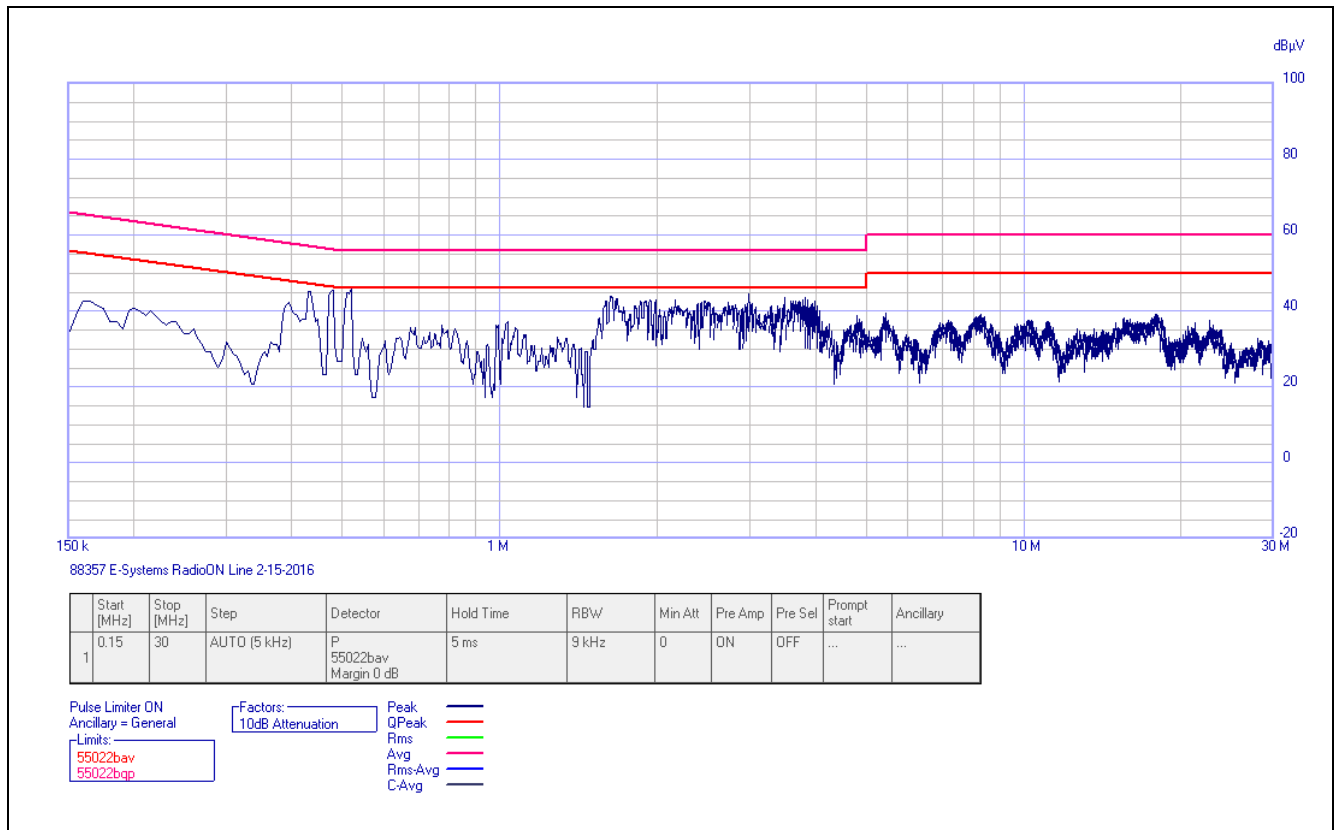
**Test Engineer(s):** Arsalan Hasan

**Test Date(s):** 02/15/16

### 15.207(a) Conducted Emissions Test Results

Line	Freq. (MHz)	QP Amplitude	QP Limit	Delta	Pass	Average Amplitude	Average Limit	Delta	Pass
Line	0.435	43.15	57.181	-14.031	Pass	41.33	47.181	-5.851	Pass
Line	0.485	42.05	56.26	-14.21	Pass	39.01	46.26	-7.25	Pass
Line	0.525	33.77	56	-22.23	Pass	32.02	46	-13.98	Pass
Line	1.64	37.42	56	-18.58	Pass	34.98	46	-11.02	Pass
Line	2.965	36.21	56	-19.79	Pass	30.52	46	-15.48	Pass
Line	3.8	29.8	56	-26.2	Pass	23.39	46	-22.61	Pass

Table 9. Conducted Emissions, 15.207(a), Phase Line, Test Results, Radio On

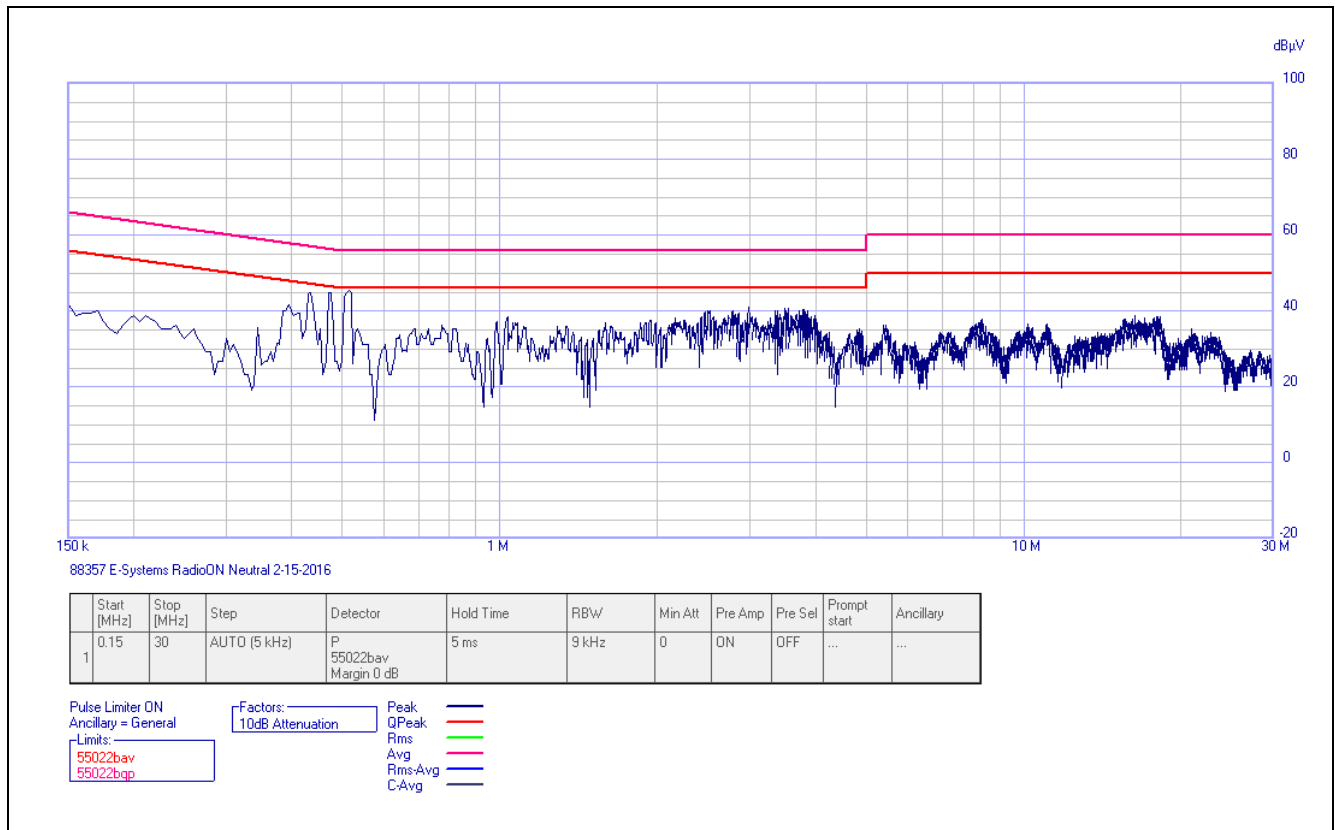


Plot 1. Conducted Emissions, 15.207(a), Phase Line, Radio On

### 15.207(a) Conducted Emissions Test Results

Line	Freq. (MHz)	QP Amplitude	QP Limit	Delta	Pass	Average Amplitude	Average Limit	Delta	Pass
Neutral	0.395	42.28	57.98	-15.7	Pass	34.82	47.98	-13.16	Pass
Neutral	0.435	37.17	57.181	-20.011	Pass	34.78	47.181	-12.401	Pass
Neutral	0.475	42.28	56.438	-14.158	Pass	35.23	46.438	-11.208	Pass
Neutral	0.515	39.1	56	-16.9	Pass	27.23	46	-18.77	Pass
Neutral	0.15	35.67	66	-30.33	Pass	31.68	56	-24.32	Pass
Neutral	2.965	33.55	56	-22.45	Pass	29.45	46	-16.55	Pass

Table 10. Conducted Emissions, 15.207(a), Neutral Line, Test Results, Radio On



Plot 2. Conducted Emissions, 15.207(a), Neutral Line, Radio On

### 15.207(a) Conducted Emissions Test Setup Photo



**Photograph 4. Conducted Emissions, 15.207(a), Test Setup**

## Electromagnetic Compatibility Criteria for Intentional Radiators

### § 15.247(a)(2) 6 dB Bandwidth

**Test Requirements:** § 15.247(a)(2): Operation under the provisions of this section is limited to frequency hopping and digitally modulated intentional radiators that comply with the following provisions:

For systems using digital modulation techniques, the EUT 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.

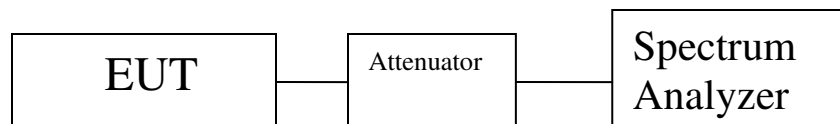
**Test Procedure:** The transmitter was on and transmitting at the highest output power. The bandwidth of the fundamental frequency was measured with the spectrum analyzer using a RBW approximately 1% of the total emission bandwidth, VBW > RBW. The 6 dB Bandwidth was measured and recorded. The measurements were performed on the low, mid and high channels.

**Test Results** The EUT was compliant with § 15.247 (a)(2).

The 6 dB Bandwidth was determined from the plots on the following pages.

**Test Engineer(s):** Arsalan Hasan

**Test Date(s):** 02/16/16



**Figure 2. Block Diagram, Occupied Bandwidth Test Setup**

## Occupied Bandwidth Test Results

Occupied Bandwidth			
Mode	Carrier Channel	Frequency (MHz)	Measured 6 dB Bandwidth (MHz)
802.11b	Low	2412	2.431
	Mid	2437	2.630
	High	2462	2.565
802.11g	Low	2412	4.123
	Mid	2437	4.133
	High	2462	4.135
802.11n	Low	2412	4.159
	Mid	2437	4.150
	High	2462	4.187

Table 11. 6 dB Occupied Bandwidth, Test Results, 5 MHz

Occupied Bandwidth			
Mode	Carrier Channel	Frequency (MHz)	Measured 6 dB Bandwidth (MHz)
802.11b	Low	2412	5.175
	Mid	2437	5.074
	High	2462	5.342
802.11g	Low	2412	8.280
	Mid	2437	8.245
	High	2462	8.305
802.11n	Low	2412	8.280
	Mid	2437	8.267
	High	2462	8.262

Table 12. 6 dB Occupied Bandwidth, Test Results, 10 MHz



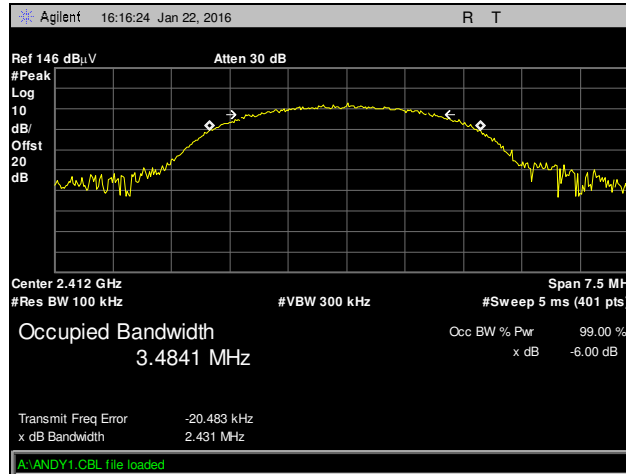
Occupied Bandwidth			
Mode	Carrier Channel	Frequency (MHz)	Measured 6 dB Bandwidth (MHz)
802.11b	Low	2412	10.524
	Mid	2437	10.529
	High	2462	9.803
802.11g	Low	2412	16.451
	Mid	2437	16.457
	High	2462	16.442
802.11n	Low	2412	17.609
	Mid	2437	17.084
	High	2462	17.065

Table 13. 6 dB Occupied Bandwidth, Test Results, 20 MHz

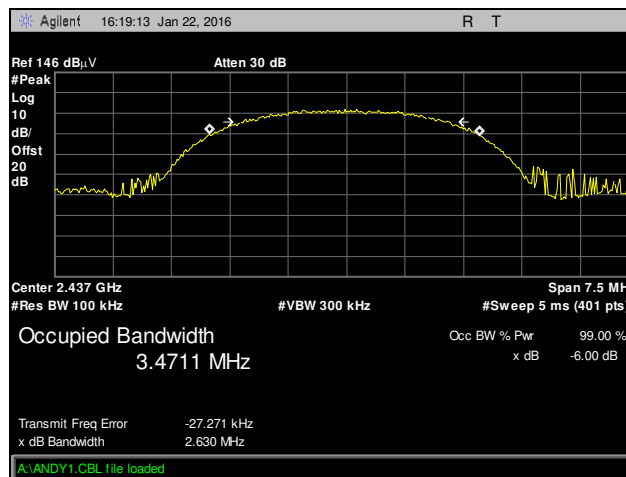
Occupied Bandwidth			
Mode	Carrier Channel	Frequency (MHz)	Measured 6 dB Bandwidth (MHz)
802.11g	Low	2422	36.480
	Mid	2447	36.095
	High	2452	36.406
802.11n	Low	2422	36.210
	Mid	2447	36.457
	High	2452	36.514

Table 14. 6 dB Occupied Bandwidth, Test Results, 40 MHz

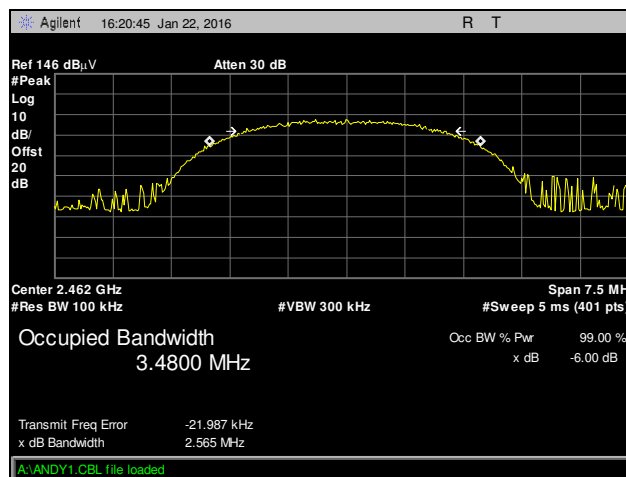
### 6 dB Occupied Bandwidth Test Results, 802.11b 5 MHz



Plot 3. 6 dB Occupied Bandwidth, Low Channel, 802.11b 5 MHz

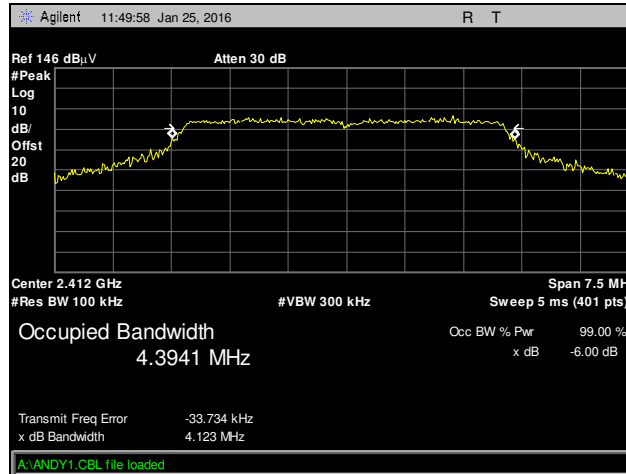


Plot 4. 6 dB Occupied Bandwidth, Mid Channel, 802.11b 5 MHz

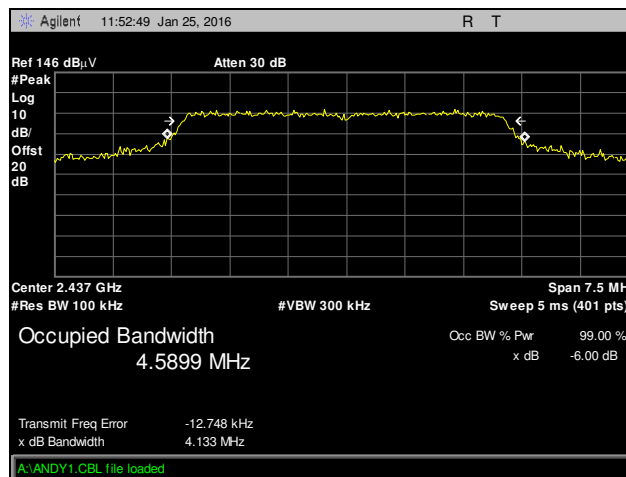


Plot 5. 6 dB Occupied Bandwidth, High Channel, 802.11b 5 MHz

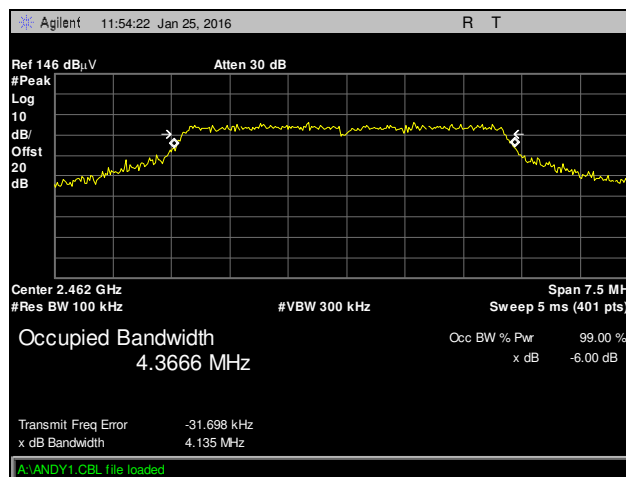
### 6 dB Occupied Bandwidth Test Results, 802.11g 5 MHz



Plot 6. 6 dB Occupied Bandwidth, Low Channel, 802.11g 5 MHz

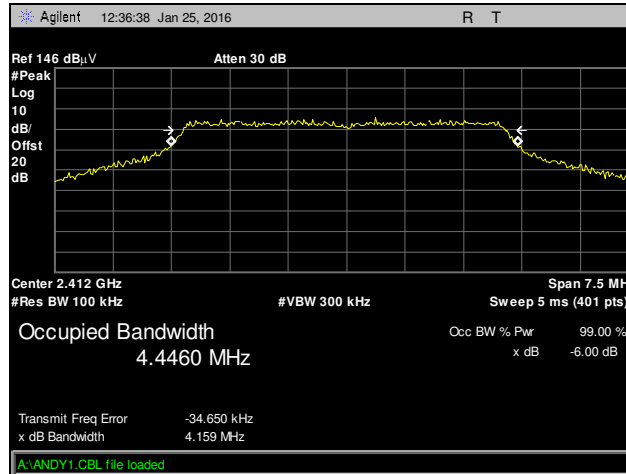


Plot 7. 6 dB Occupied Bandwidth, Mid Channel, 802.11g 5 MHz

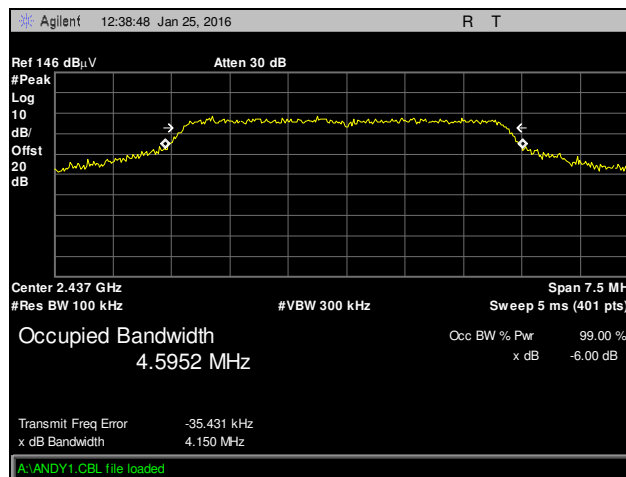


Plot 8. 6 dB Occupied Bandwidth, High Channel, 802.11g 5 MHz

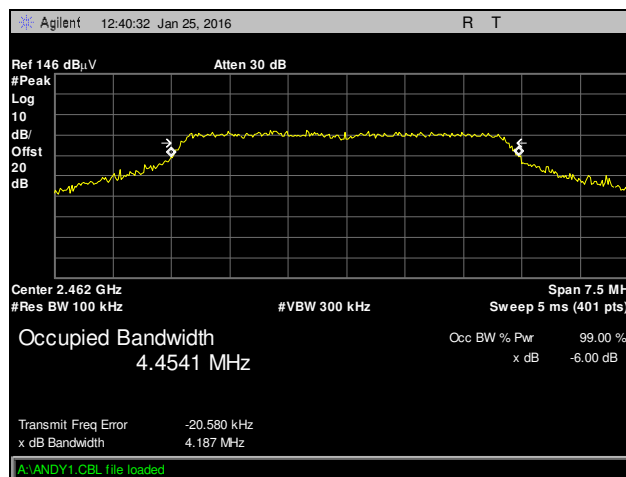
### 6 dB Occupied Bandwidth Test Results, 802.11n 5 MHz



Plot 9. 6 dB Occupied Bandwidth, Low Channel, 802.11n 5 MHz

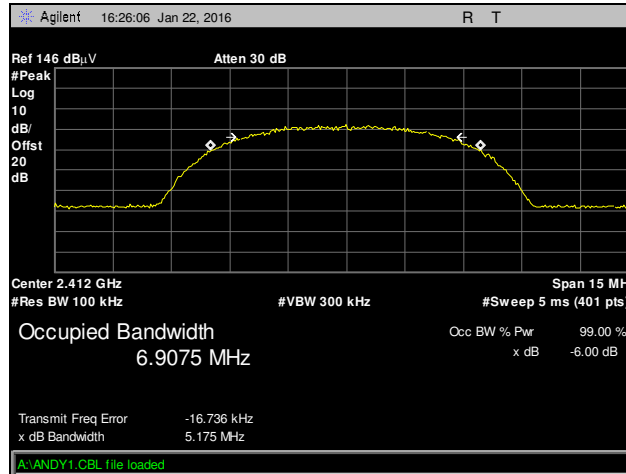


Plot 10. 6 dB Occupied Bandwidth, Mid Channel, 802.11n 5 MHz

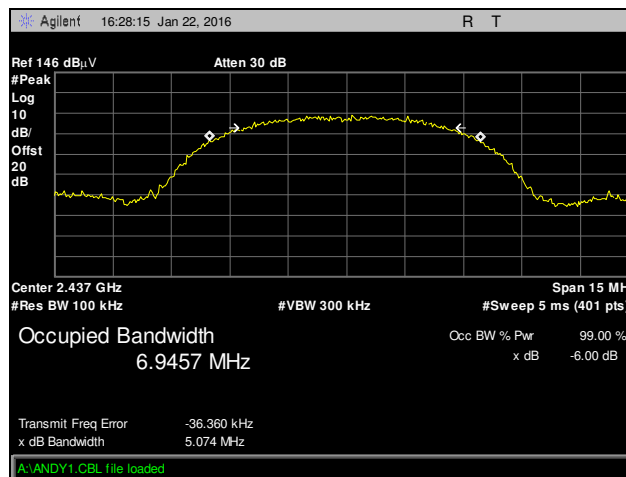


Plot 11. 6 dB Occupied Bandwidth, High Channel, 802.11n 5 MHz

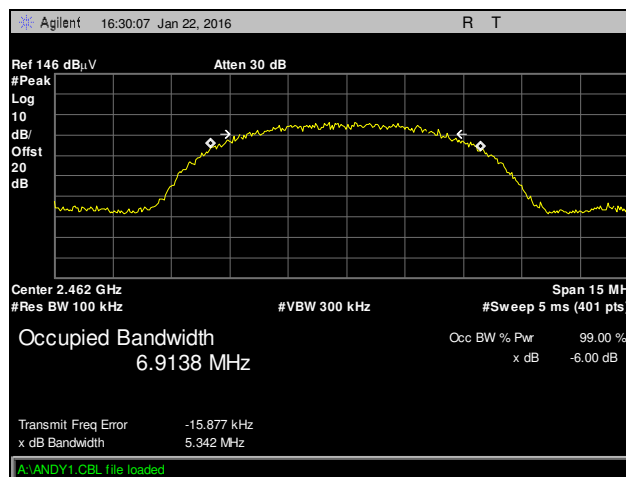
### 6 dB Occupied Bandwidth Test Results, 802.11b 10 MHz



Plot 12. 6 dB Occupied Bandwidth, Low Channel, 802.11b 10 MHz

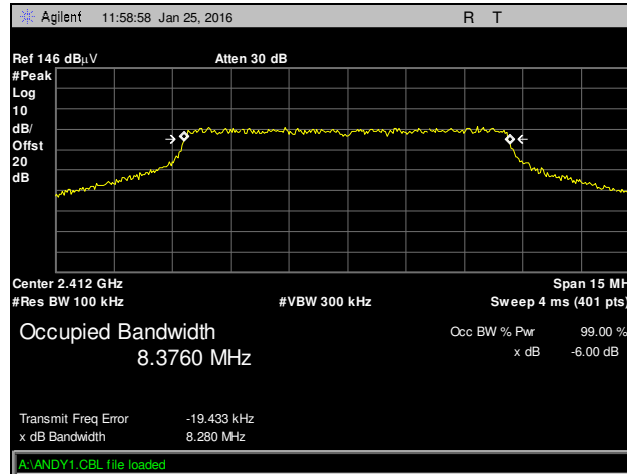


Plot 13. 6 dB Occupied Bandwidth, Mid Channel, 802.11b 10 MHz

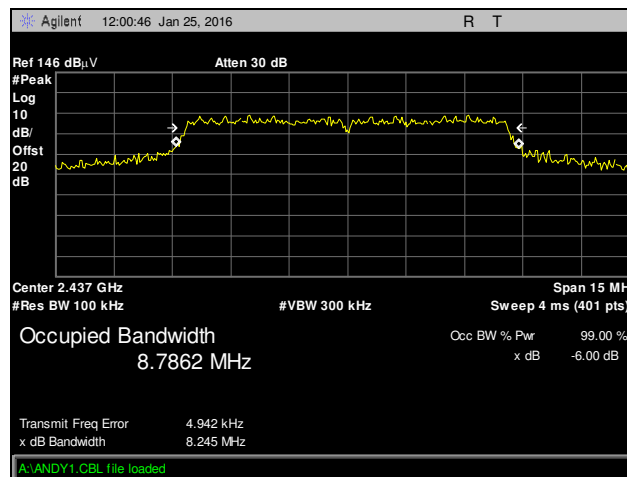


Plot 14. 6 dB Occupied Bandwidth, High Channel, 802.11b 10 MHz

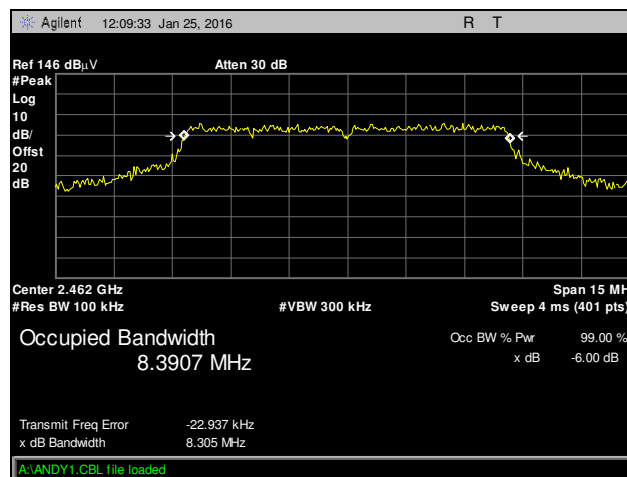
### 6 dB Occupied Bandwidth Test Results, 802.11g 10 MHz



Plot 15. 6 dB Occupied Bandwidth, Low Channel, 802.11g 10 MHz

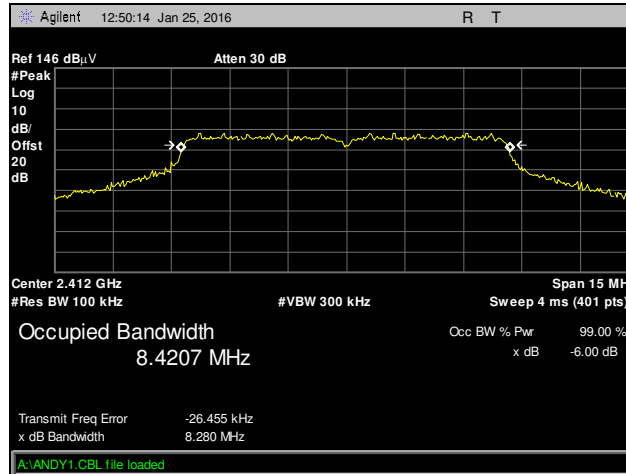


Plot 16. 6 dB Occupied Bandwidth, Mid Channel, 802.11g 10 MHz

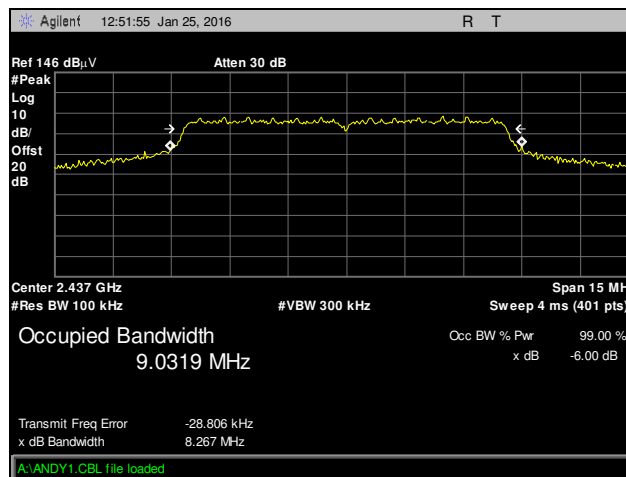


Plot 17. 6 dB Occupied Bandwidth, High Channel, 802.11g 10 MHz

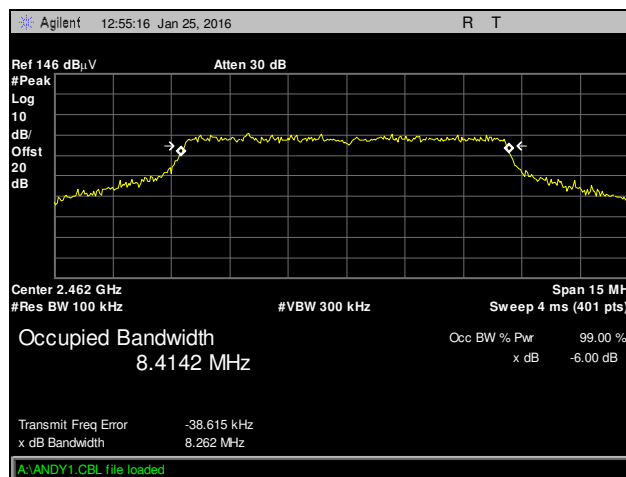
### 6 dB Occupied Bandwidth Test Results, 802.11n 10 MHz



Plot 18. 6 dB Occupied Bandwidth, Low Channel, 802.11n 10 MHz

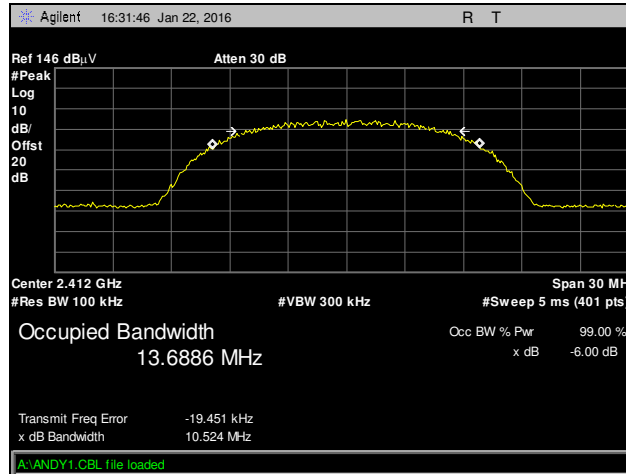


Plot 19. 6 dB Occupied Bandwidth, Mid Channel, 802.11n 10 MHz

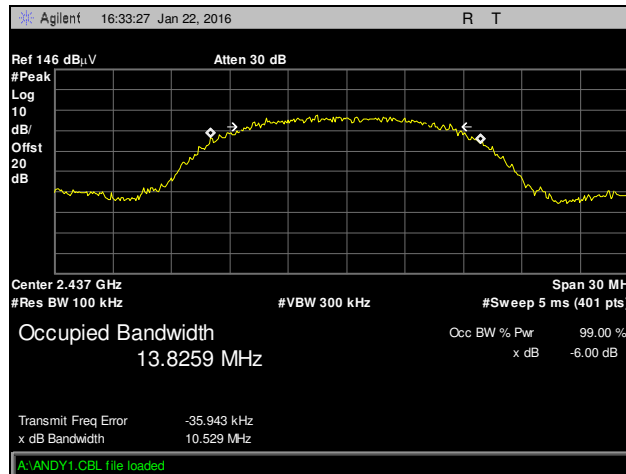


Plot 20. 6 dB Occupied Bandwidth, High Channel, 802.11n 10 MHz

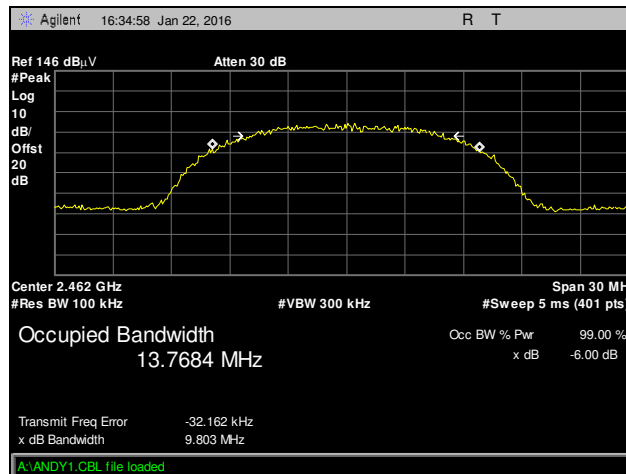
### 6 dB Occupied Bandwidth Test Results, 802.11b 20 MHz



Plot 21. 6 dB Occupied Bandwidth, Low Channel, 802.11b 20 MHz



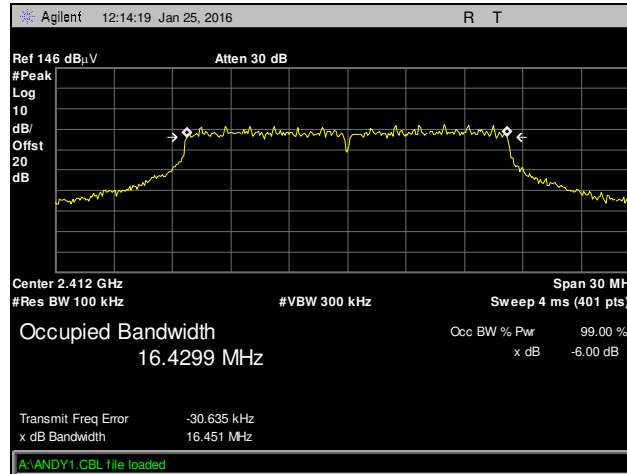
Plot 22. 6 dB Occupied Bandwidth, Mid Channel, 802.11b 20 MHz



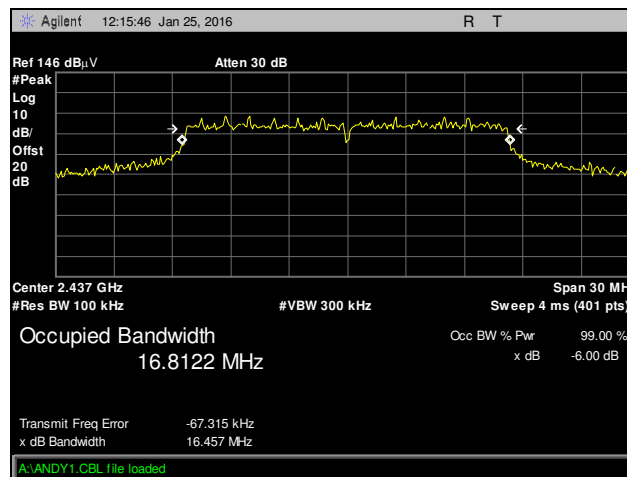
Plot 23. 6 dB Occupied Bandwidth, High Channel, 802.11b 20 MHz



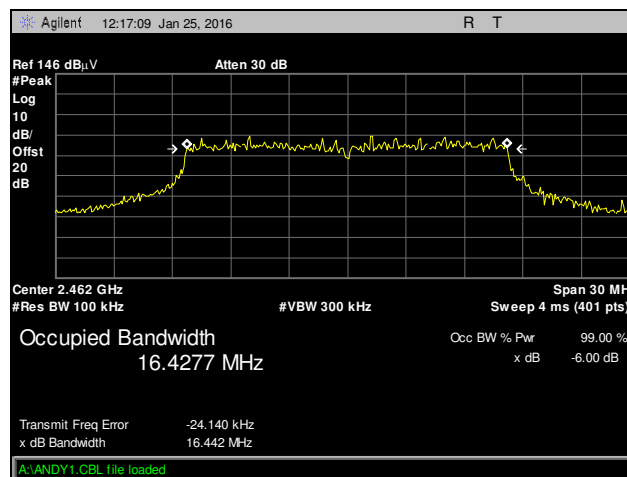
### 6 dB Occupied Bandwidth Test Results, 802.11g 20 MHz



Plot 24. 6 dB Occupied Bandwidth, Low Channel, 802.11g 20 MHz

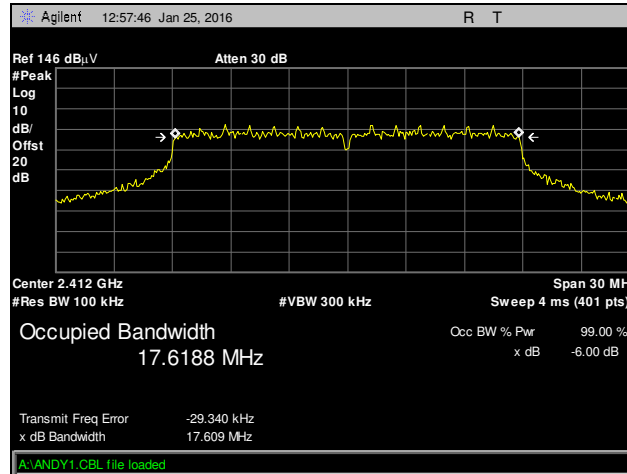


Plot 25. 6 dB Occupied Bandwidth, Mid Channel, 802.11g 20 MHz

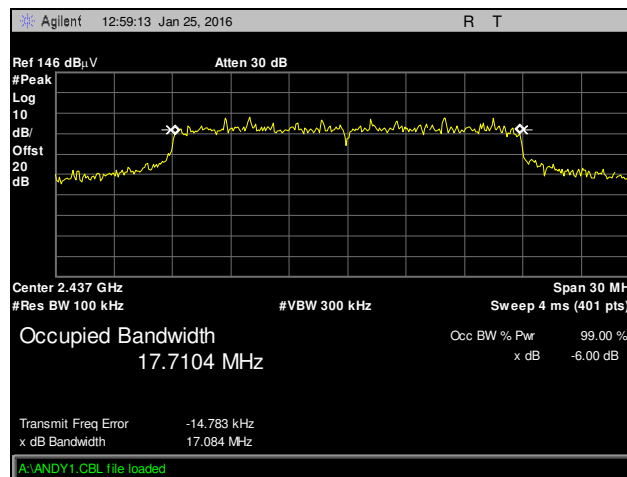


Plot 26. 6 dB Occupied Bandwidth, High Channel, 802.11g 20 MHz

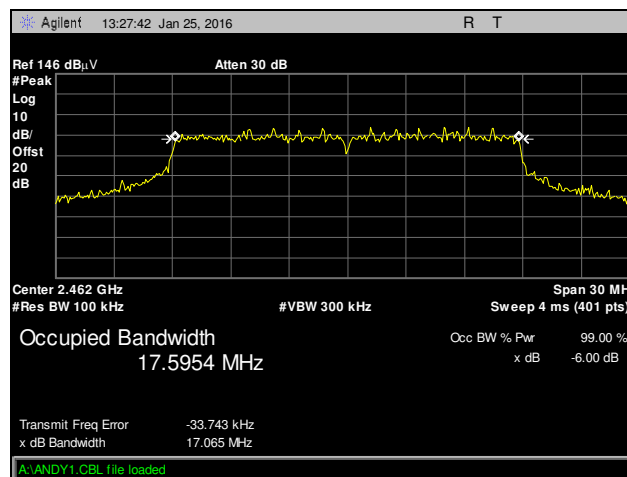
### 6 dB Occupied Bandwidth Test Results, 802.11n 20 MHz



Plot 27. 6 dB Occupied Bandwidth, Low Channel, 802.11n 20 MHz

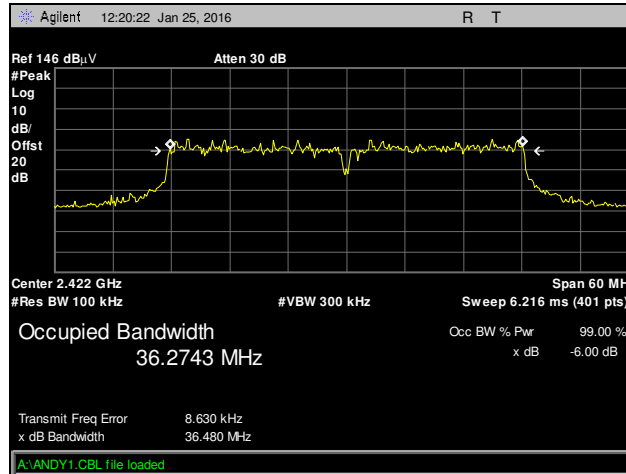


Plot 28. 6 dB Occupied Bandwidth, Mid Channel, 802.11n 20 MHz

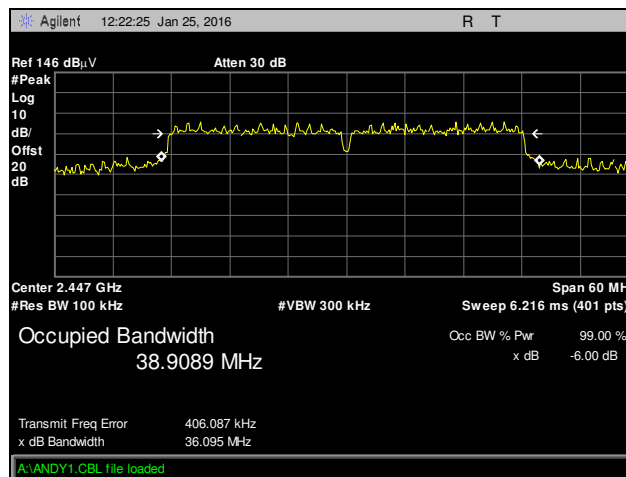


Plot 29. 6 dB Occupied Bandwidth, High Channel, 802.11n 20 MHz

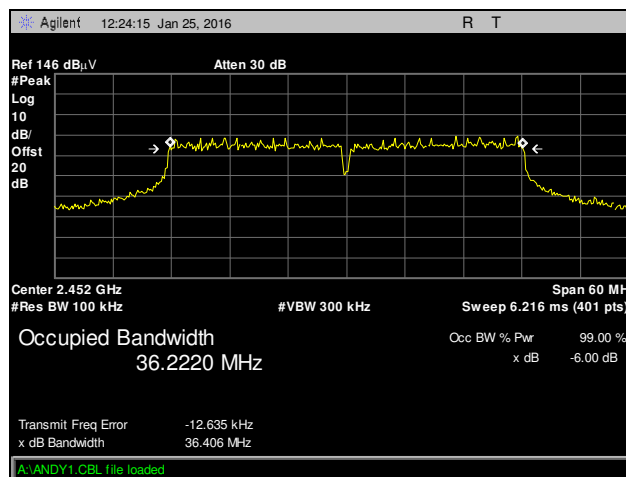
### 6 dB Occupied Bandwidth Test Results, 802.11g 40 MHz



Plot 30. 6 dB Occupied Bandwidth, Low Channel, 802.11g 40 MHz

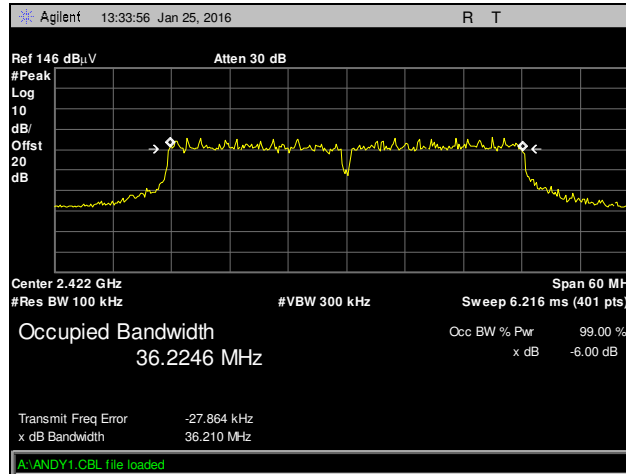


Plot 31. 6 dB Occupied Bandwidth, Mid Channel, 802.11g 40 MHz

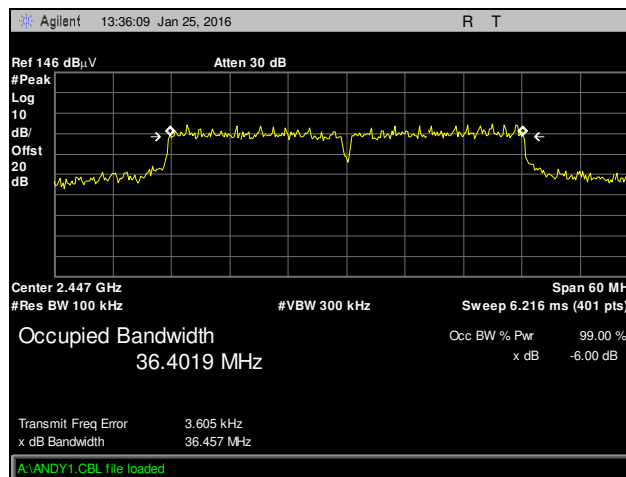


Plot 32. 6 dB Occupied Bandwidth, High Channel, 802.11g 40 MHz

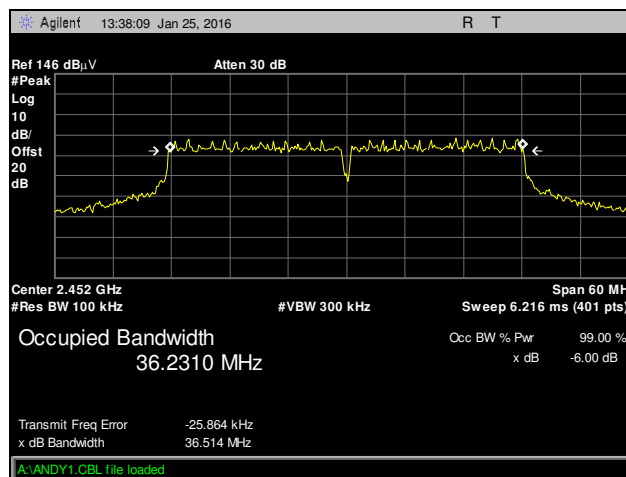
### 6 dB Occupied Bandwidth Test Results, 802.11n 40 MHz



Plot 33. 6 dB Occupied Bandwidth, Low Channel, 802.11n 40 MHz



Plot 34. 6 dB Occupied Bandwidth, Mid Channel, 802.11n 40 MHz



Plot 35. 6 dB Occupied Bandwidth, High Channel, 802.11n 40 MHz

## Electromagnetic Compatibility Criteria for Intentional Radiators

### § 15.247(b) Peak Power Output

**Test Requirements:** §15.247(b): The maximum peak output power of the intentional radiator shall not exceed the following:

Digital Transmission Systems (MHz)	Output Limit (Watts)
902-928	1.000
2400-2483.5	1.000
5725- 5850	1.000

**Table 15. Output Power Requirements from §15.247(b)**

§15.247(c): if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in the Table 15, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Systems operating in the 2400 – 2483.5 MHz band and using a point to point application may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

Systems operating in the 5725 – 5850 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter peak output power.

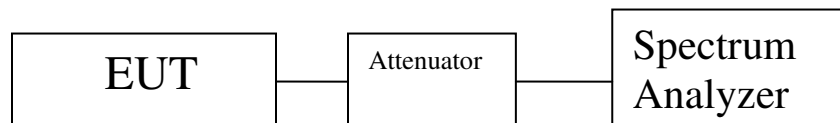
Fixed, point-to-point operation excludes the use of point-to-multipoint systems, Omni-directional applications, and multiple co-located intentional radiators transmitting the same information. The operator of the spread spectrum intentional radiator or, if the equipment is professionally installed, the installer is responsible for ensuring that the system is used exclusively for fixed, point-to-point operations. The instruction manual furnished with the intentional radiator shall contain language in the installation instructions informing the operator and the installer of this responsibility.

**Test Procedure:** The transmitter was connected to a calibrated spectrum analyzer. The EUT was measured at the low, mid and high channels of each band at the maximum power level.

**Test Results:** The EUT was compliant with the Peak Power Output limits of §15.247(b).

**Test Engineer(s):** Arsalan Hasan

**Test Date(s):** 02/15/16



**Figure 3. Peak Power Output Test Setup**

### Peak Power Output Test Results

Omni Antenna Peak Conducted Output Power					
Mode	Bandwidth (MHz)	Carrier Channel	Frequency (MHz)	Limit (dBm)	Measured Peak Output Power (dBm)
802.11b	5	Low	2412	30	29.61
		Mid	2437	30	29.65
		High	2462	30	26.28
	10	Low	2412	30	24.04
		Mid	2437	30	29.26
		High	2462	30	26.23
	20	Low	2422	30	26.53
		Mid	2437	30	29.15
		High	2462	30	28.22
802.11g	5	Low	2412	30	22.44
		Mid	2437	30	29.60
		High	2462	30	26.84
	10	Low	2412	30	20.64
		Mid	2437	30	28.24
		High	2462	30	23.32
	20	Low	2422	30	20.06
		Mid	2437	30	25.64
		High	2462	30	19.63
	40	Low	2422	30	19.67
		Mid	2447	30	20.05
		High	2452	30	18.70
802.11n	5	Low	2412	30	26.79
		Mid	2437	30	<b>29.83</b>
		High	2462	30	22.59
	10	Low	2412	30	19.41
		Mid	2437	30	29.61
		High	2462	30	19.57
	20	Low	2422	30	21.18
		Mid	2437	30	24.49
		High	2462	30	21.22
	40	Low	2422	30	15.03
		Mid	2447	30	27.48
		High	2452	30	16.02

**Table 16. Peak Power Output, Test Results, Omni Antenna**

Parabolic Antenna Peak Conducted Output Power					
Mode	Bandwidth (MHz)	Carrier Channel	Frequency (MHz)	Limit (dBm)	Measured Peak Output Power (dBm)
802.11b	5	Low	2412	21	10.43
		Mid	2437	21	16.26
		High	2462	21	10.06
	10	Low	2412	21	5.41
		Mid	2437	21	15.47
		High	2462	21	6.56
	20	Low	2422	21	15.88
		Mid	2437	21	<b>17.31</b>
		High	2462	21	8.07
802.11g	5	Low	2412	21	10.13
		Mid	2437	21	14.85
		High	2462	21	4.32
	10	Low	2412	21	2.57
		Mid	2437	21	13.79
		High	2462	21	3.61
	20	Low	2422	21	10.95
		Mid	2437	21	14.24
		High	2462	21	9.59
	40	Low	2422	21	3.65
		Mid	2447	21	15.97
		High	2452	21	5.95
802.11n	5	Low	2412	21	10.76
		Mid	2437	21	16.01
		High	2462	21	6.33
	10	Low	2412	21	8.37
		Mid	2437	21	16.60
		High	2462	21	5.88
	20	Low	2422	21	10.06
		Mid	2437	21	13.37
		High	2462	21	11.12
	40	Low	2422	21	5.17
		Mid	2447	21	13.99
		High	2452	21	3.75

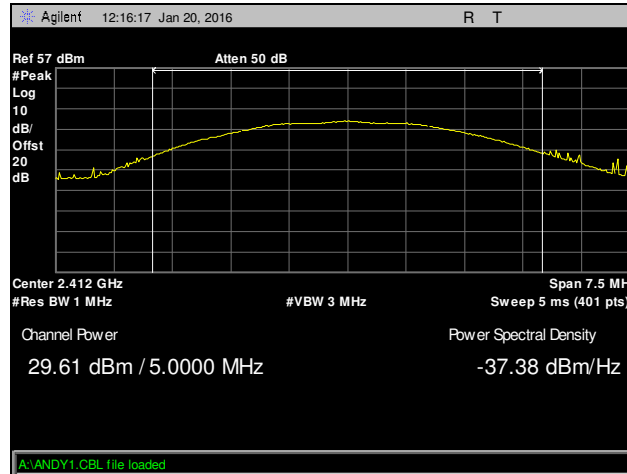
Table 17. Peak Power Output, Test Results, Parabolic Antenna

Yagi Antenna Peak Conducted Output Power					
Mode	Bandwidth (MHz)	Carrier Channel	Frequency (MHz)	Limit (dBm)	Measured Peak Output Power (dBm)
802.11b	5	Low	2412	30	19.38
		Mid	2437	30	29.59
		High	2462	30	19.80
	10	Low	2412	30	18.34
		Mid	2437	30	29.07
		High	2462	30	19.48
	20	Low	2412	30	18.96
		Mid	2437	30	29.56
		High	2462	30	20.09
802.11g	5	Low	2412	30	19.86
		Mid	2437	30	28.09
		High	2462	30	20.55
	10	Low	2412	30	16.36
		Mid	2437	30	27.28
		High	2462	30	17.01
	20	Low	2412	30	17.99
		Mid	2437	30	25.07
		High	2462	30	9.84
	40	Low	2422	30	12.32
		Mid	2447	30	23.76
		High	2452	30	12.67
802.11n	5	Low	2412	30	21.84
		Mid	2437	30	29.29
		High	2462	30	22.13
	10	Low	2412	30	16.30
		Mid	2437	30	<b>29.65</b>
		High	2462	30	20.74
	20	Low	2412	30	17.28
		Mid	2437	30	23.58
		High	2462	30	22.00
	40	Low	2422	30	12.87
		Mid	2447	30	21.32
		High	2452	30	11.17

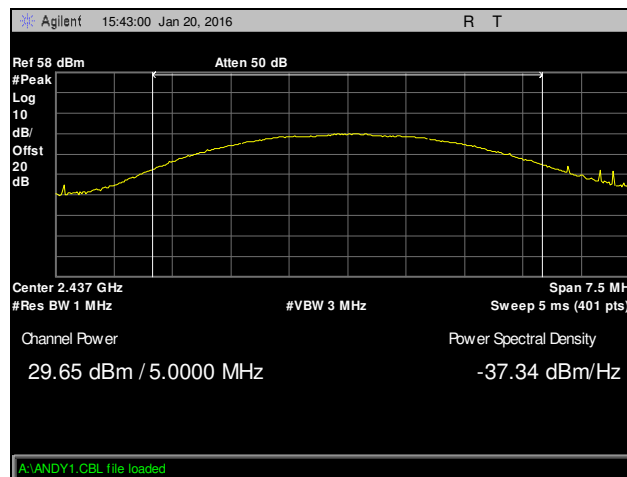
**Table 18. Peak Power Output, Test Results, Yagi Antenna**



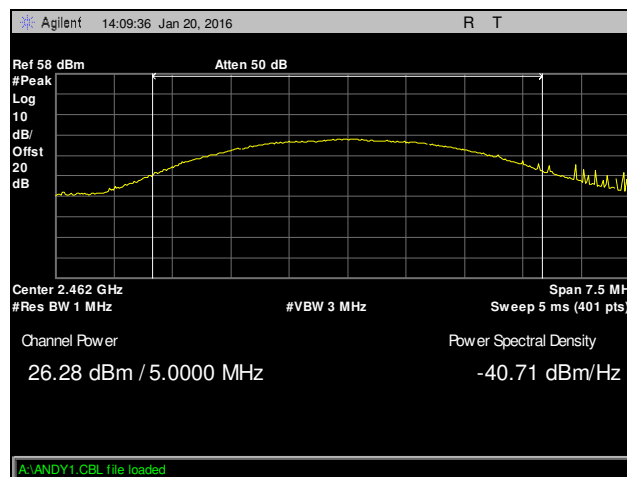
**Peak Power Output Test Results, 802.11b 5 MHz, Omni Antenna**



**Plot 36. Peak Power Output, Low Channel, 802.11b 5 MHz, Omni Antenna**

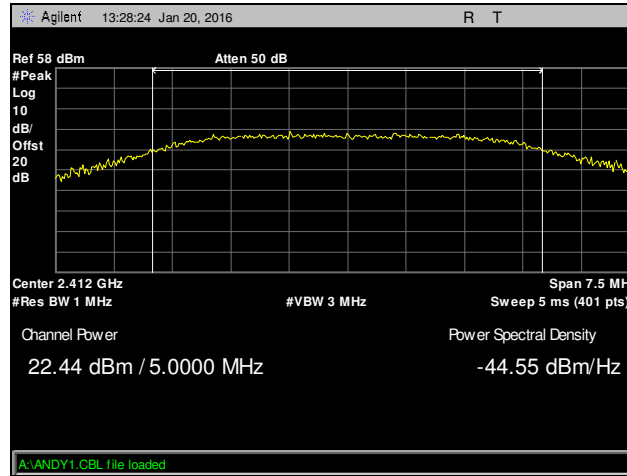


**Plot 37. Peak Power Output, Mid Channel, 802.11b 5 MHz, Omni Antenna**

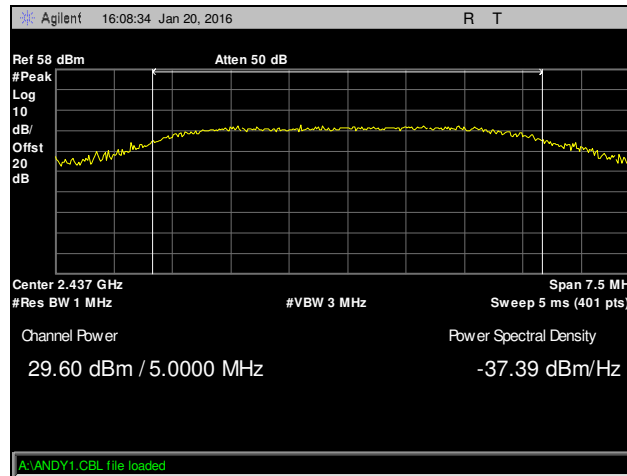


**Plot 38. Peak Power Output, High Channel, 802.11b 5 MHz, Omni Antenna**

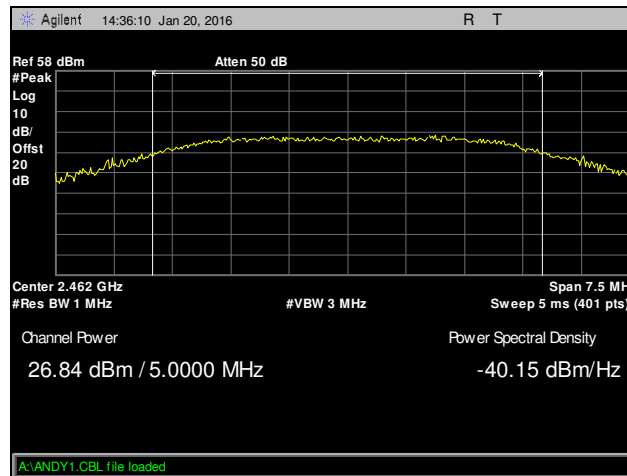
**Peak Power Output Test Results, 802.11g 5 MHz, Omni Antenna**



**Plot 39. Peak Power Output, Low Channel, 802.11g 5 MHz, Omni Antenna**

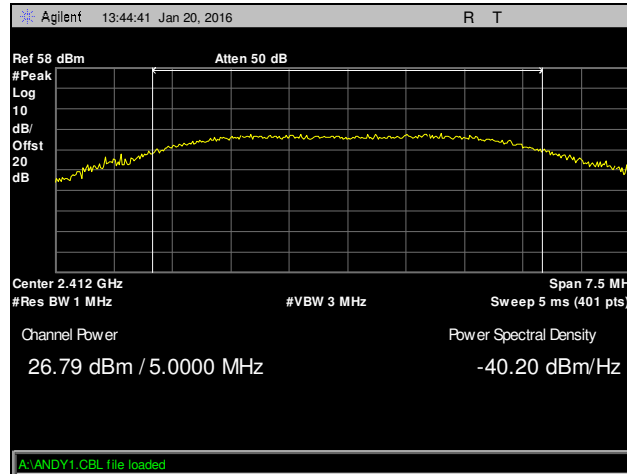


**Plot 40. Peak Power Output, Mid Channel, 802.11g 5 MHz, Omni Antenna**

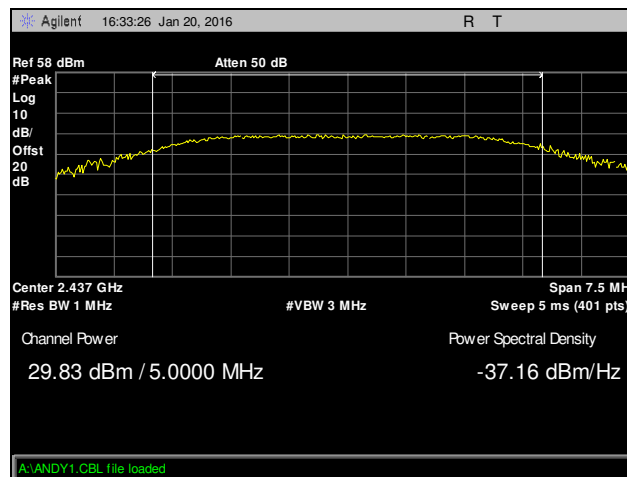


**Plot 41. Peak Power Output, High Channel, 802.11g 5 MHz, Omni Antenna**

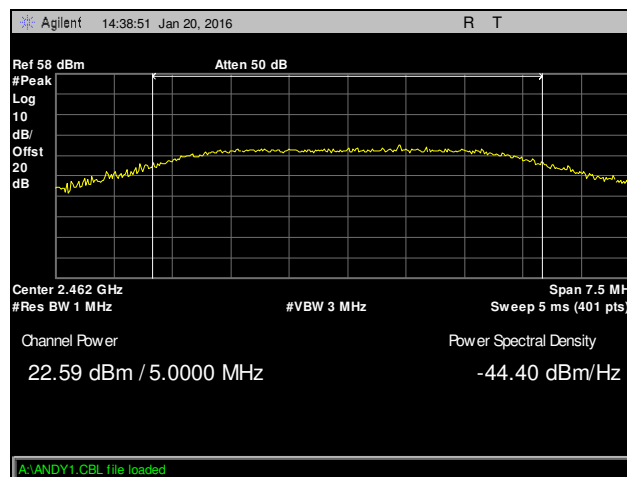
**Peak Power Output Test Results, 802.11n 5 MHz, Omni Antenna**



**Plot 42. Peak Power Output, Low Channel, 802.11n 5 MHz, Omni Antenna**

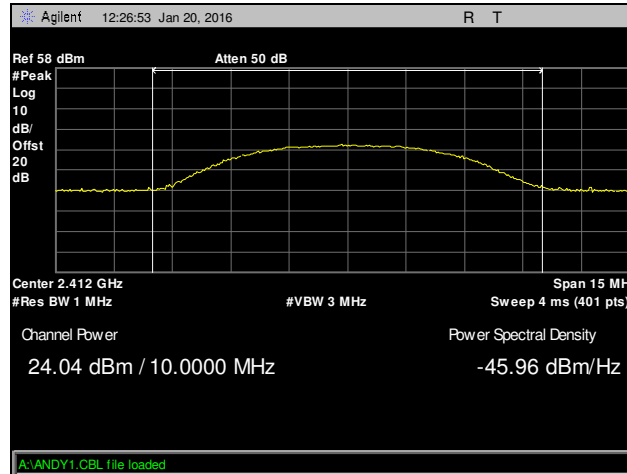


**Plot 43. Peak Power Output, Mid Channel, 802.11n 5 MHz, Omni Antenna**

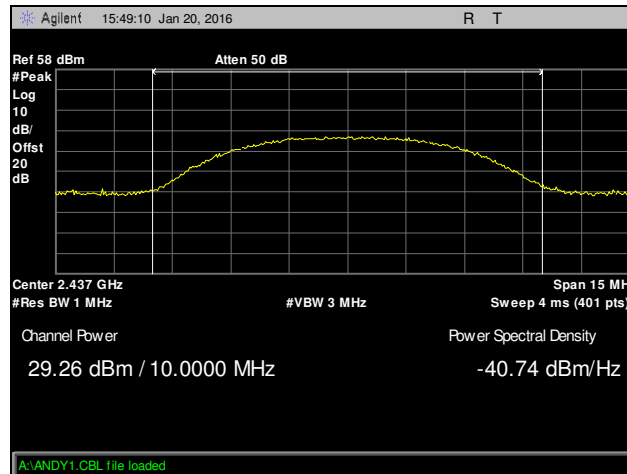


**Plot 44. Peak Power Output, High Channel, 802.11n 5 MHz, Omni Antenna**

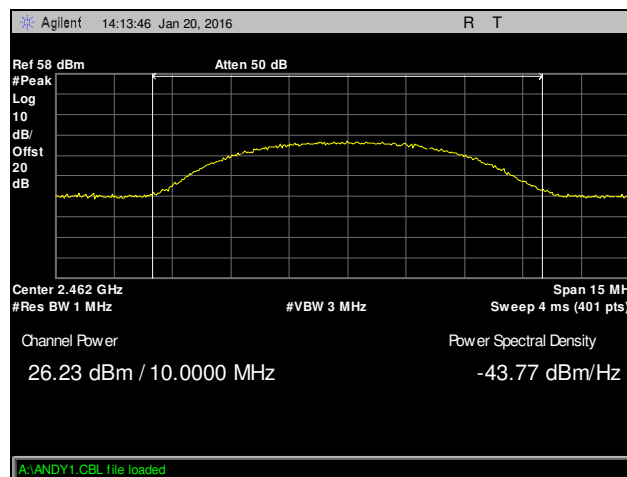
**Peak Power Output Test Results, 802.11b 10 MHz, Omni Antenna**



**Plot 45. Peak Power Output, Low Channel, 802.11b 10 MHz, Omni Antenna**

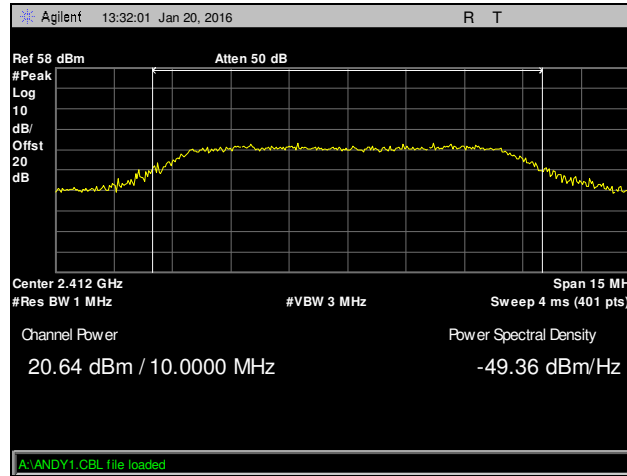


**Plot 46. Peak Power Output, Mid Channel, 802.11b 10 MHz, Omni Antenna**

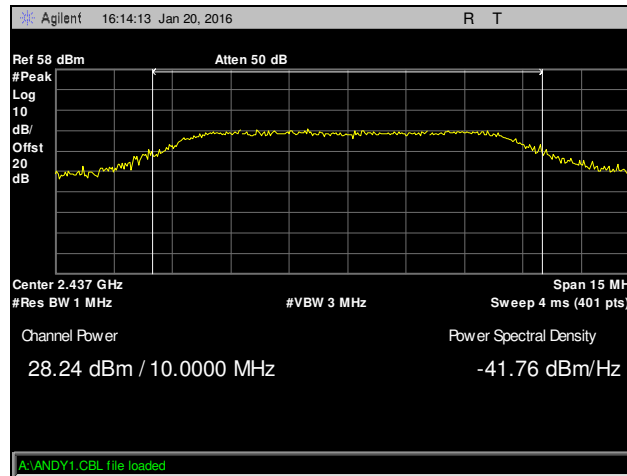


**Plot 47. Peak Power Output, High Channel, 802.11b 10 MHz, Omni Antenna**

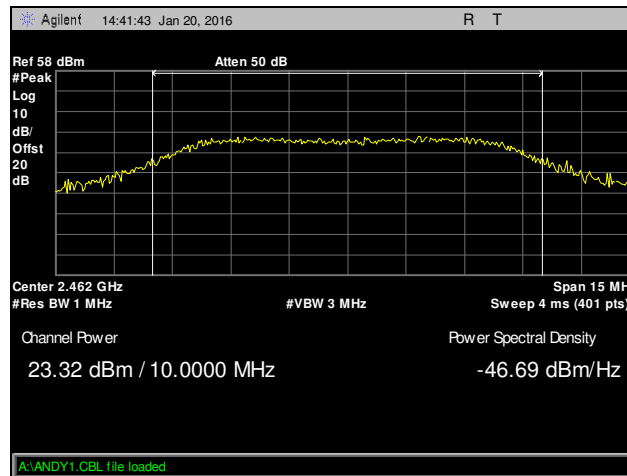
**Peak Power Output Test Results, 802.11g 10 MHz, Omni Antenna**



**Plot 48. Peak Power Output, Low Channel, 802.11g 10 MHz, Omni Antenna**

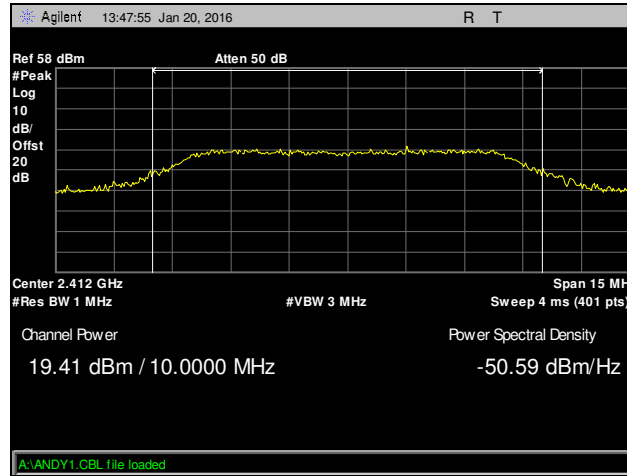


**Plot 49. Peak Power Output, Mid Channel, 802.11g 10 MHz, Omni Antenna**

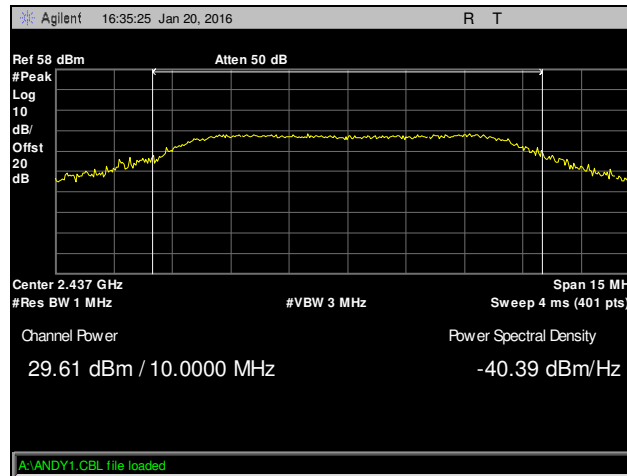


**Plot 50. Peak Power Output, High Channel, 802.11g 10 MHz, Omni Antenna**

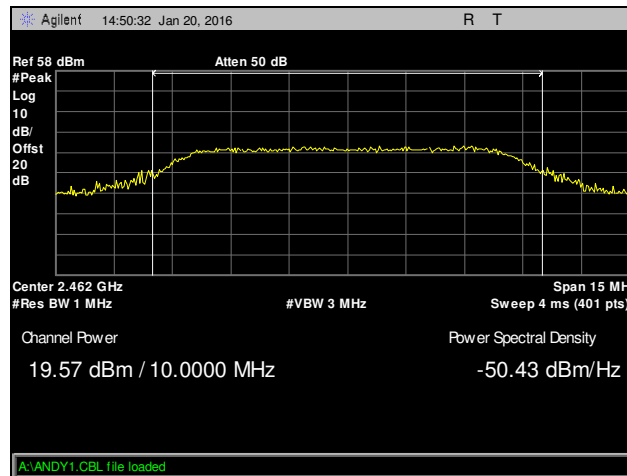
**Peak Power Output Test Results, 802.11n 10 MHz, Omni Antenna**



**Plot 51. Peak Power Output, Low Channel, 802.11n 10 MHz, Omni Antenna**

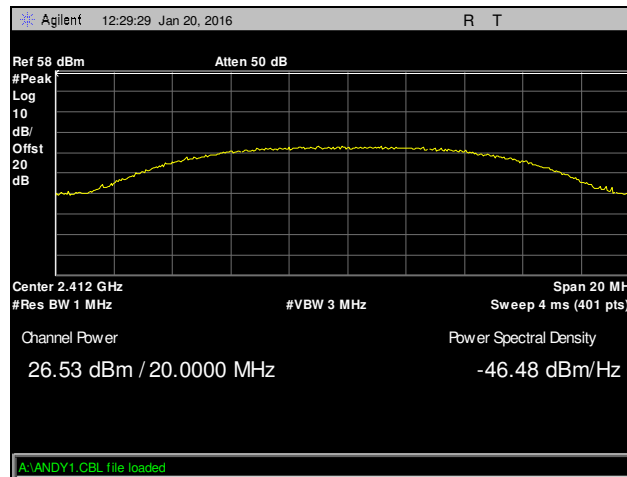


**Plot 52. Peak Power Output, Mid Channel, 802.11n 10 MHz, Omni Antenna**

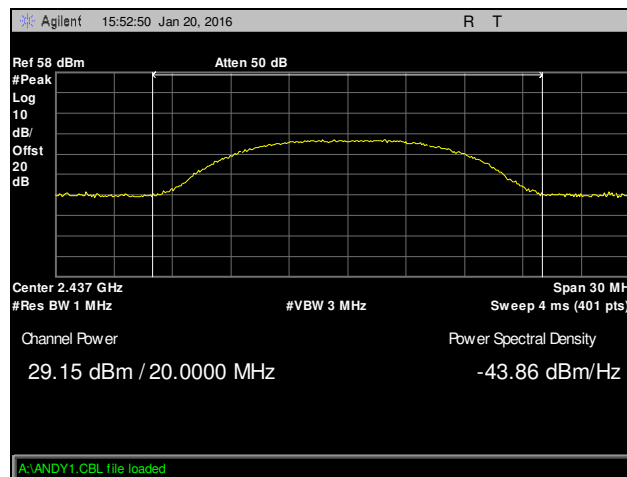


**Plot 53. Peak Power Output, High Channel, 802.11n 10 MHz, Omni Antenna**

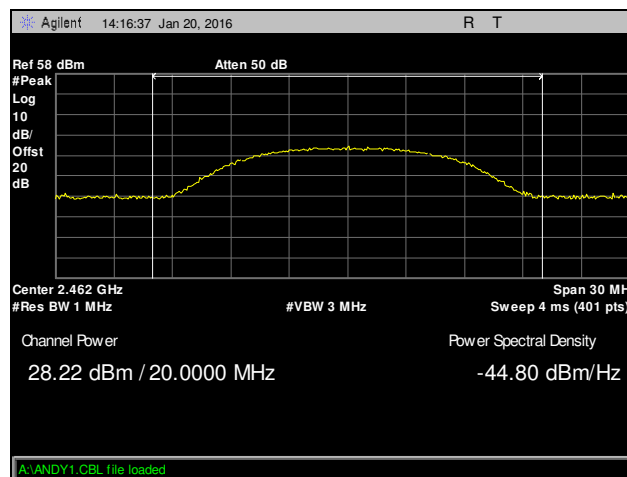
**Peak Power Output Test Results, 802.11b 20 MHz, Omni Antenna**



**Plot 54. Peak Power Output, Low Channel, 802.11b 20 MHz, Omni Antenna**

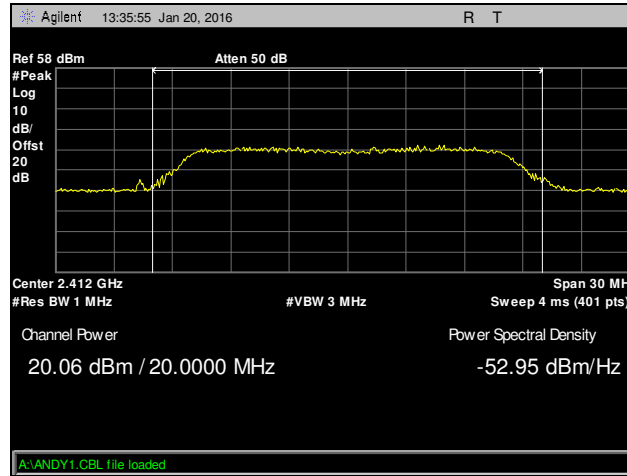


**Plot 55. Peak Power Output, Mid Channel, 802.11b 20 MHz, Omni Antenna**

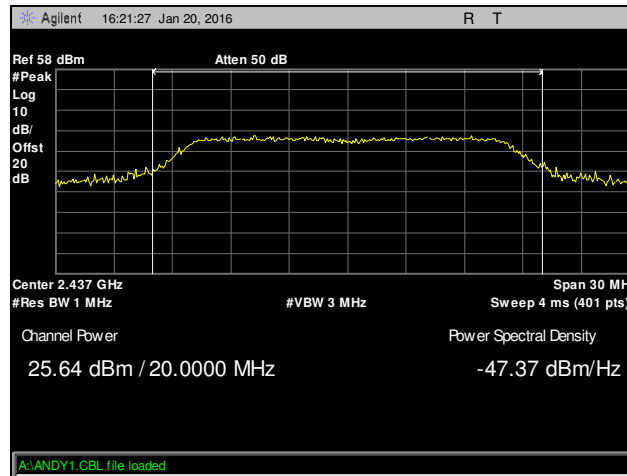


**Plot 56. Peak Power Output, High Channel, 802.11b 20 MHz, Omni Antenna**

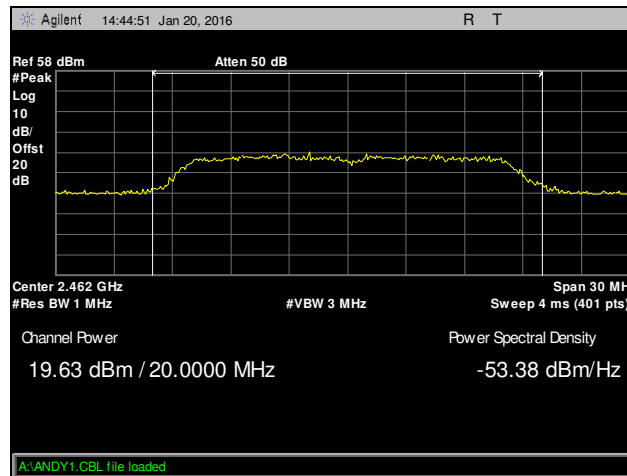
**Peak Power Output Test Results, 802.11g 20 MHz, Omni Antenna**



**Plot 57. Peak Power Output, Low Channel, 802.11g 20 MHz, Omni Antenna**



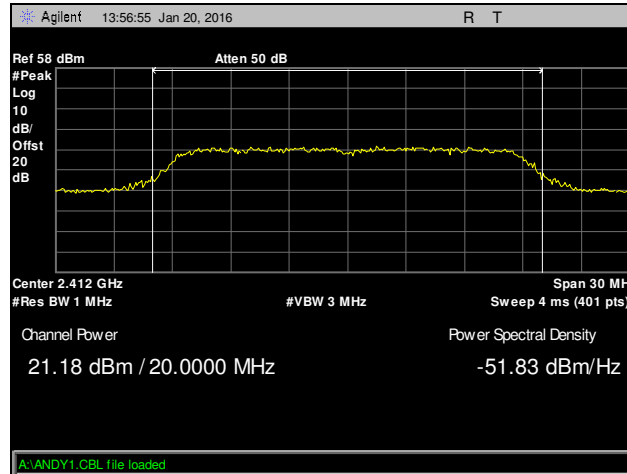
**Plot 58. Peak Power Output, Mid Channel, 802.11g 20 MHz, Omni Antenna**



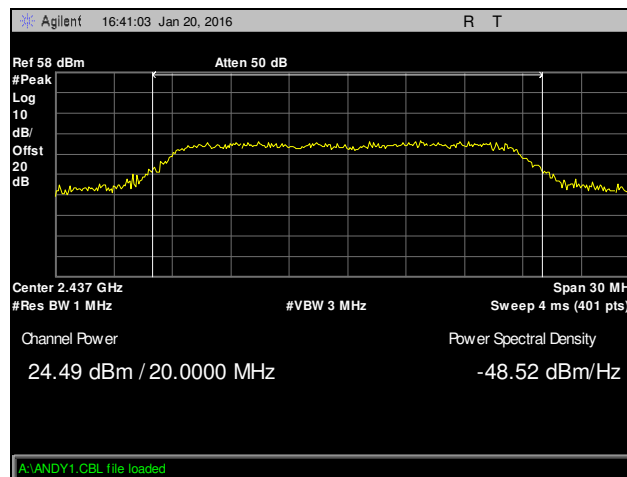
**Plot 59. Peak Power Output, High Channel, 802.11g 20 MHz, Omni Antenna**



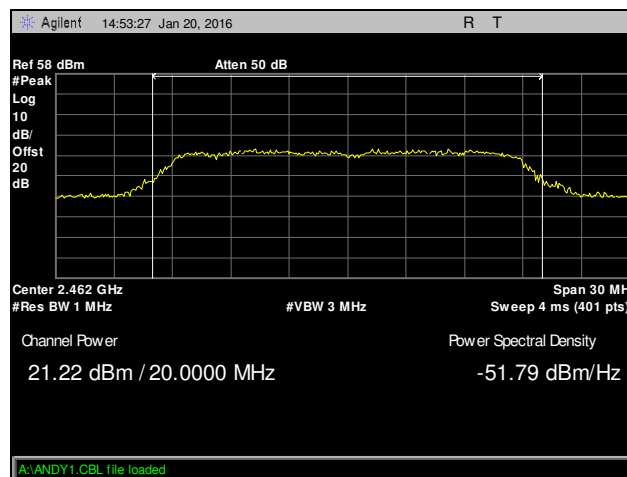
**Peak Power Output Test Results, 802.11n 20 MHz, Omni Antenna**



**Plot 60. Peak Power Output, Low Channel, 802.11n 20 MHz, Omni Antenna**

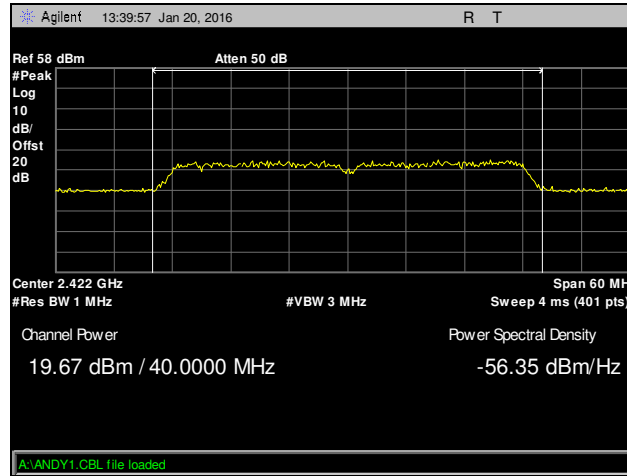


**Plot 61. Peak Power Output, Mid Channel, 802.11n 20 MHz, Omni Antenna**

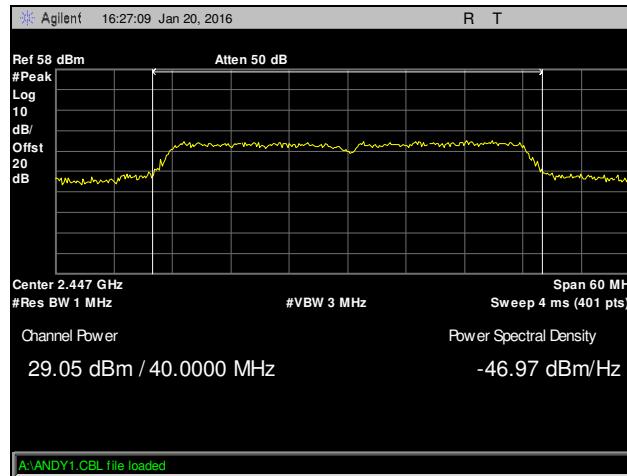


**Plot 62. Peak Power Output, High Channel, 802.11n 20 MHz, Omni Antenna**

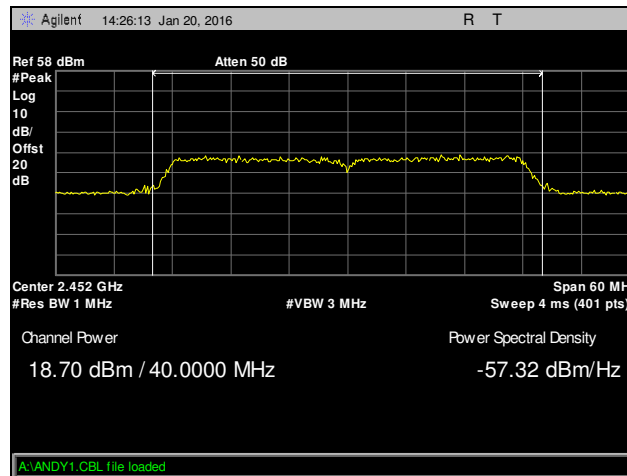
**Peak Power Output Test Results, 802.11g 40 MHz, Omni Antenna**



**Plot 63. Peak Power Output, Low Channel, 802.11g 40 MHz, Omni Antenna**

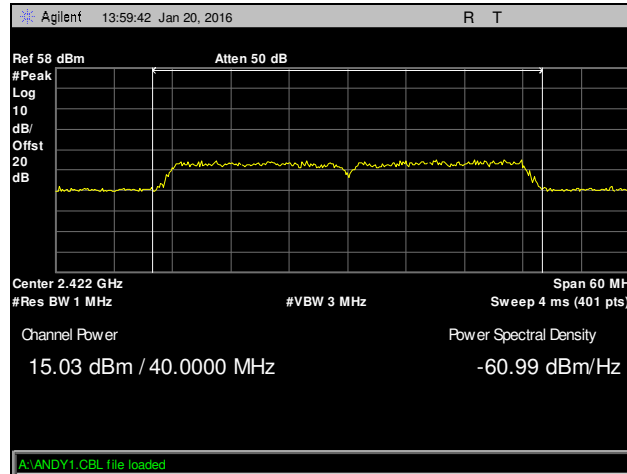


**Plot 64. Peak Power Output, Mid Channel, 802.11g 40 MHz, Omni Antenna**

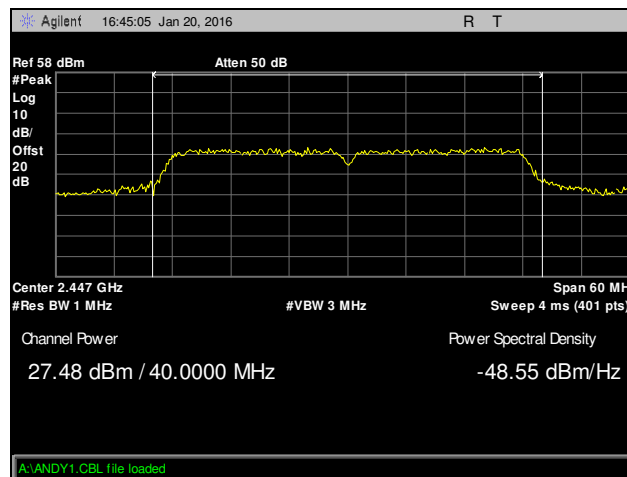


**Plot 65. Peak Power Output, High Channel, 802.11g 40 MHz, Omni Antenna**

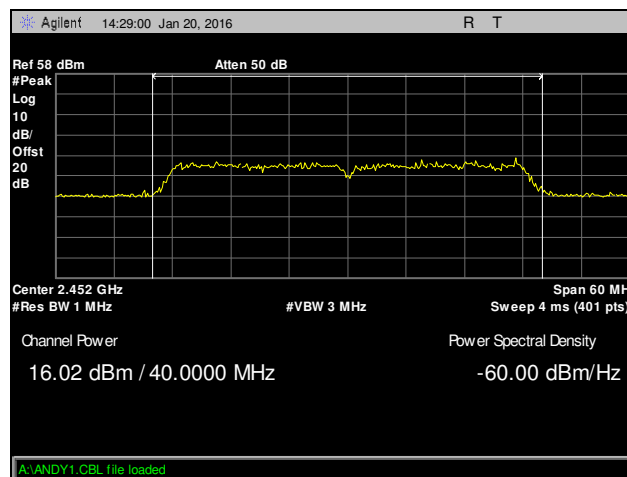
**Peak Power Output Test Results, 802.11n 40 MHz, Omni Antenna**



**Plot 66. Peak Power Output, Low Channel, 802.11n 40 MHz, Omni Antenna**

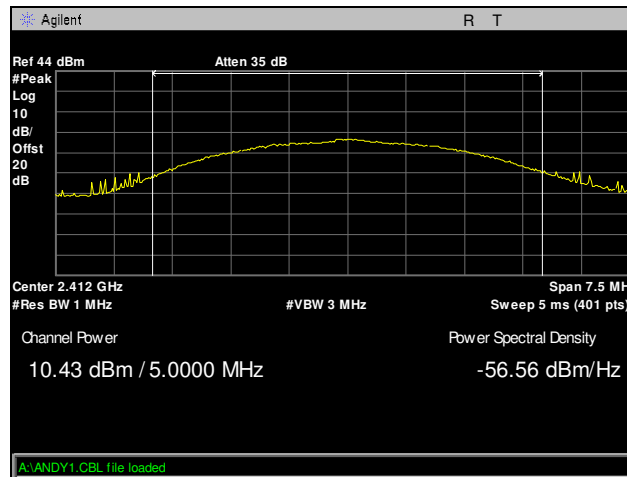


**Plot 67. Peak Power Output, Mid Channel, 802.11n 40 MHz, Omni Antenna**

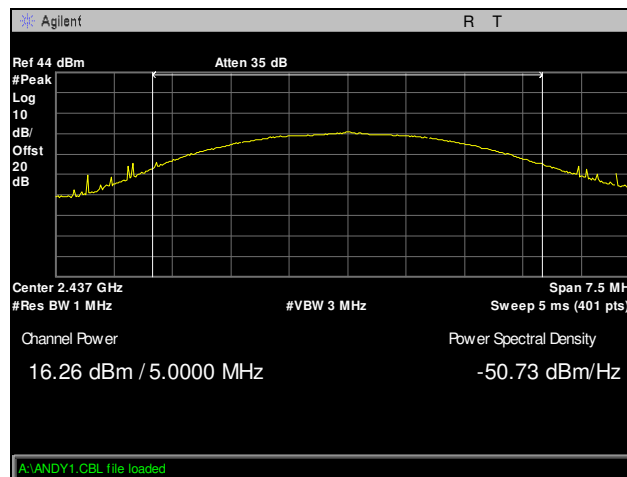


**Plot 68. Peak Power Output, High Channel, 802.11n 40 MHz, Omni Antenna**

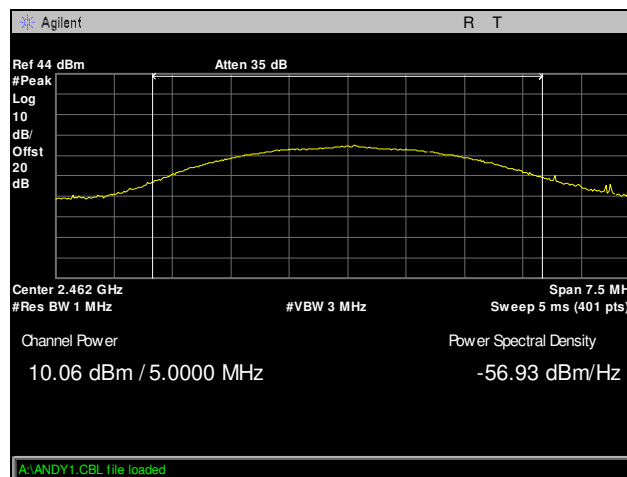
**Peak Power Output Test Results, 802.11b 5 MHz, Parabolic Antenna**



**Plot 69. Peak Power Output, Low Channel, 802.11b 5 MHz, Parabolic Antenna**

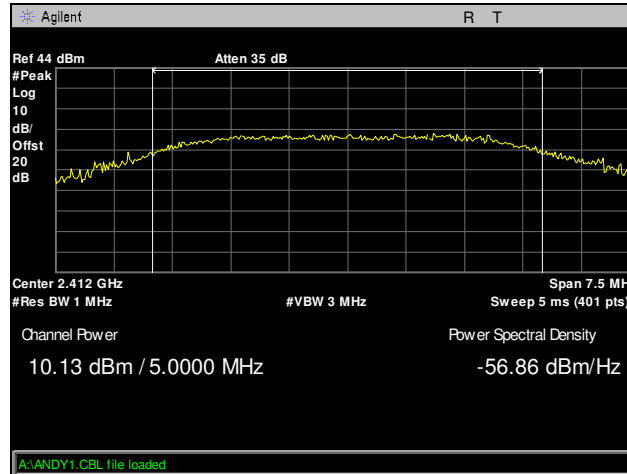


**Plot 70. Peak Power Output, Mid Channel, 802.11b 5 MHz, Parabolic Antenna**

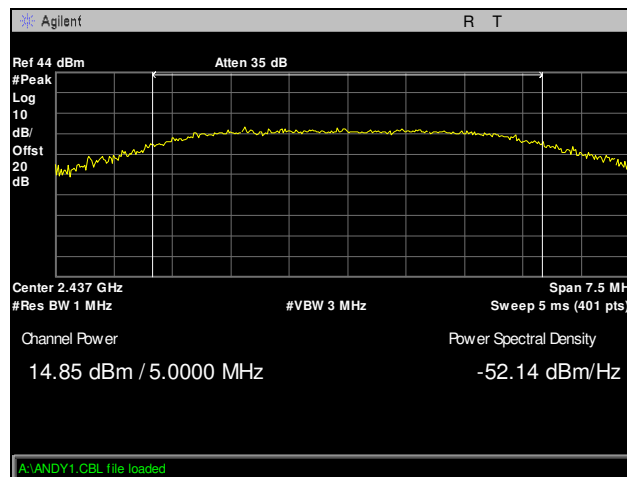


**Plot 71. Peak Power Output, High Channel, 802.11b 5 MHz, Parabolic Antenna**

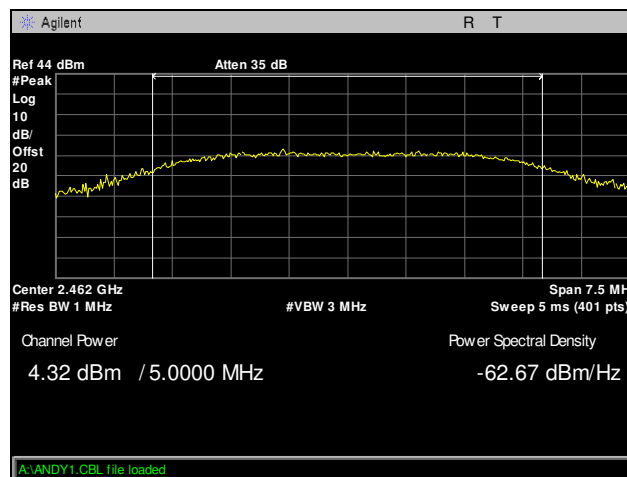
**Peak Power Output Test Results, 802.11g 5 MHz, Parabolic Antenna**



**Plot 72. Peak Power Output, Low Channel, 802.11g 5 MHz, Parabolic Antenna**

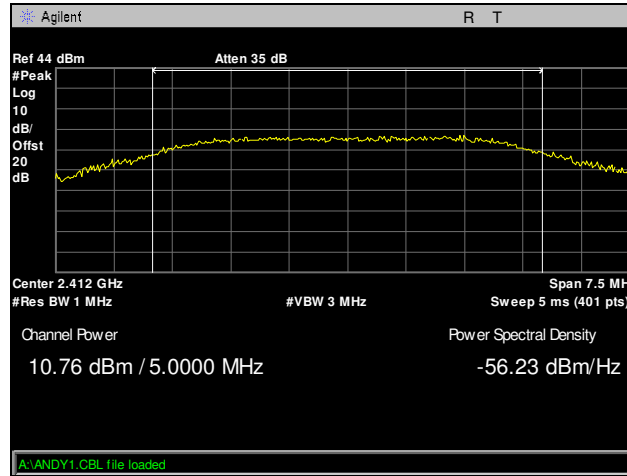


**Plot 73. Peak Power Output, Mid Channel, 802.11g 5 MHz, Parabolic Antenna**

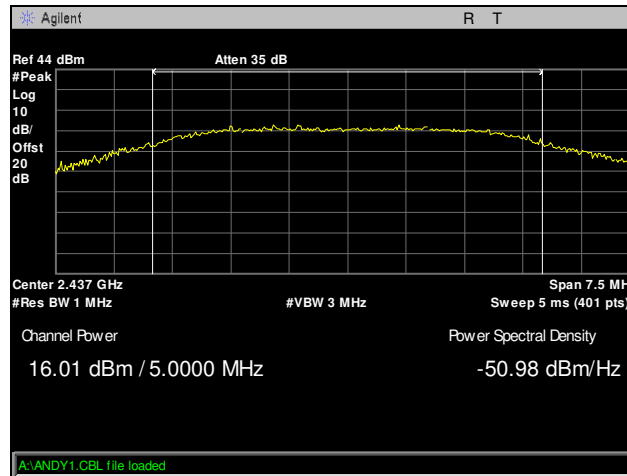


**Plot 74. Peak Power Output, High Channel, 802.11g 5 MHz, Parabolic Antenna**

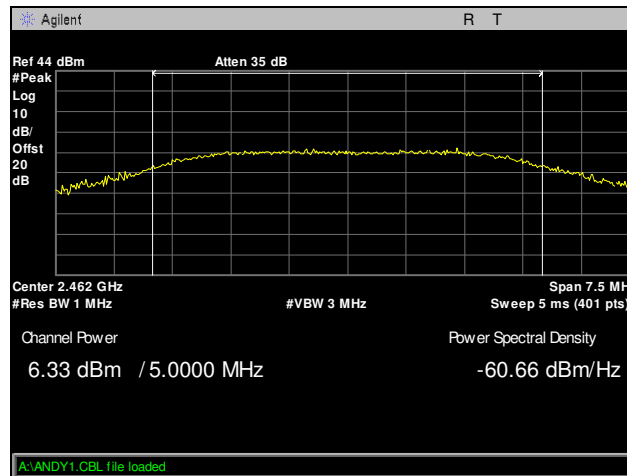
**Peak Power Output Test Results, 802.11n 5 MHz, Parabolic Antenna**



**Plot 75. Peak Power Output, Low Channel, 802.11n 5 MHz, Parabolic Antenna**

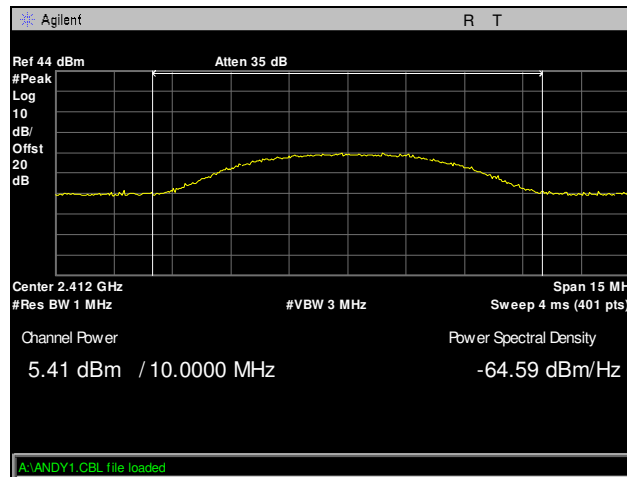


**Plot 76. Peak Power Output, Mid Channel, 802.11n 5 MHz, Parabolic Antenna**

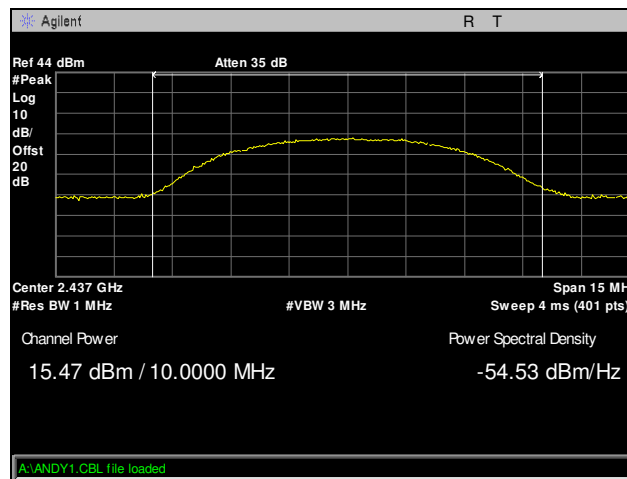


**Plot 77. Peak Power Output, High Channel, 802.11n 5 MHz, Parabolic Antenna**

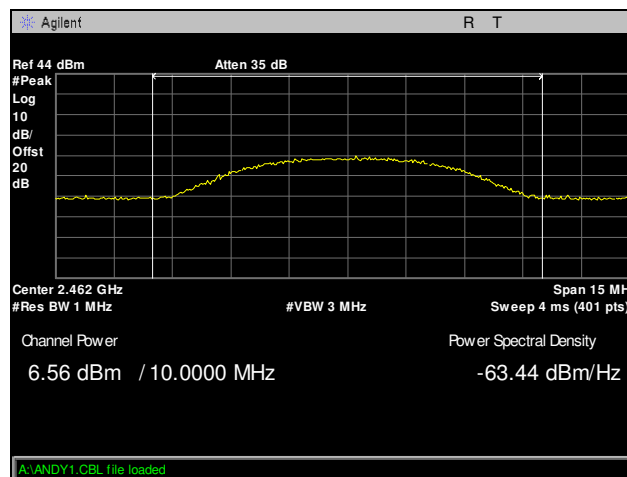
**Peak Power Output Test Results, 802.11b 10 MHz, Parabolic Antenna**



**Plot 78. Peak Power Output, Low Channel, 802.11b 10 MHz, Parabolic Antenna**

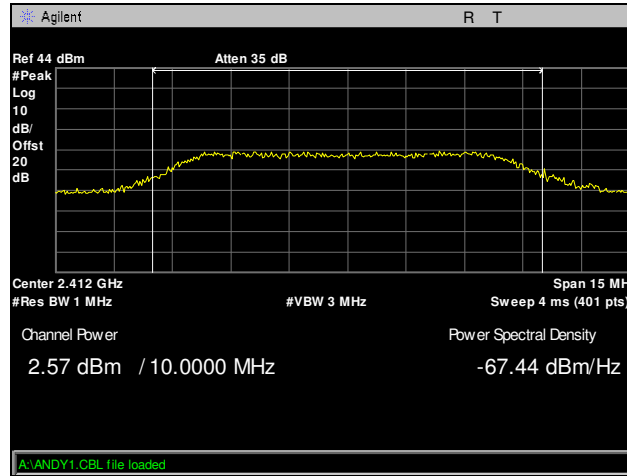


**Plot 79. Peak Power Output, Mid Channel, 802.11b 10 MHz, Parabolic Antenna**

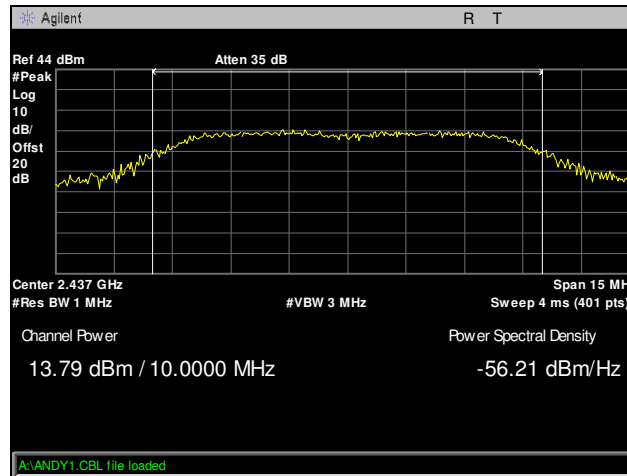


**Plot 80. Peak Power Output, High Channel, 802.11b 10 MHz, Parabolic Antenna**

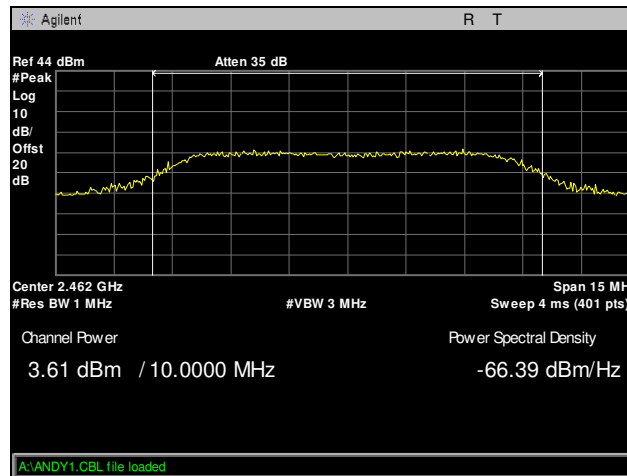
**Peak Power Output Test Results, 802.11g 10 MHz, Parabolic Antenna**



**Plot 81. Peak Power Output, Low Channel, 802.11g 10 MHz, Parabolic Antenna**



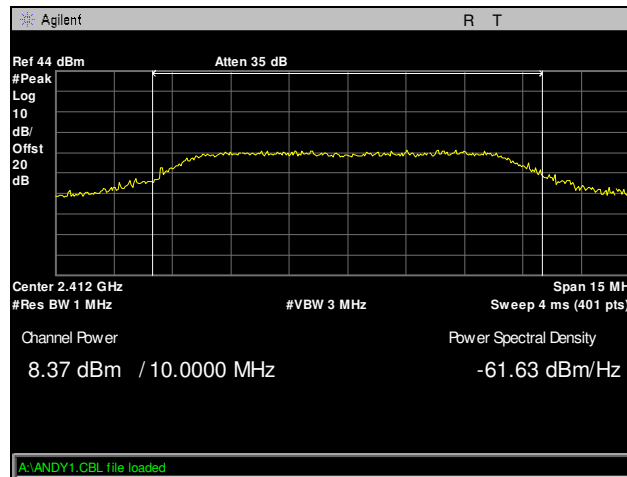
**Plot 82. Peak Power Output, Mid Channel, 802.11g 10 MHz, Parabolic Antenna**



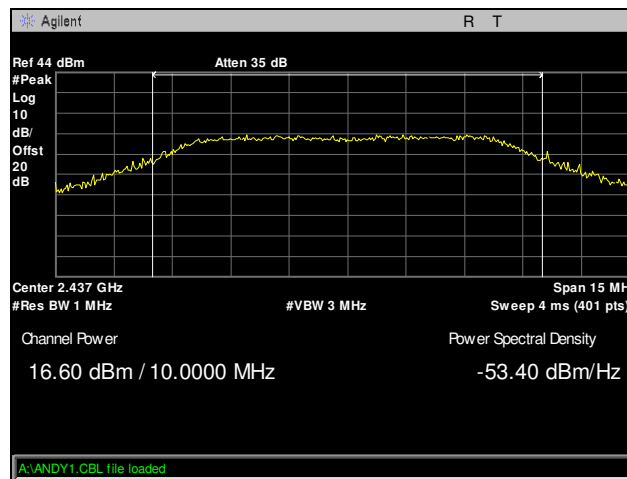
**Plot 83. Peak Power Output, High Channel, 802.11g 10 MHz, Parabolic Antenna**



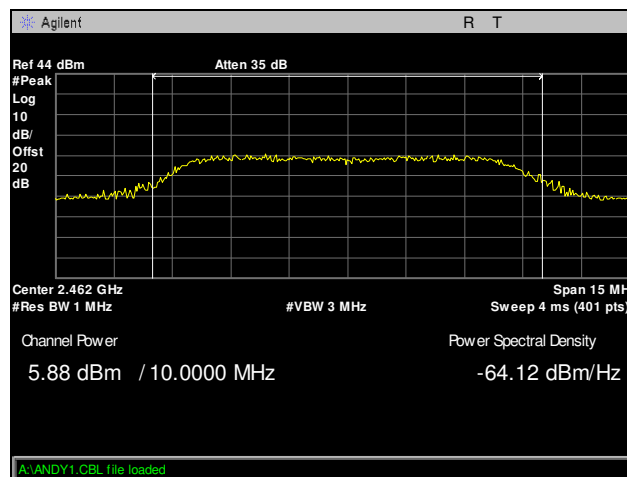
**Peak Power Output Test Results, 802.11n 10 MHz, Parabolic Antenna**



**Plot 84. Peak Power Output, Low Channel, 802.11n 10 MHz, Parabolic Antenna**

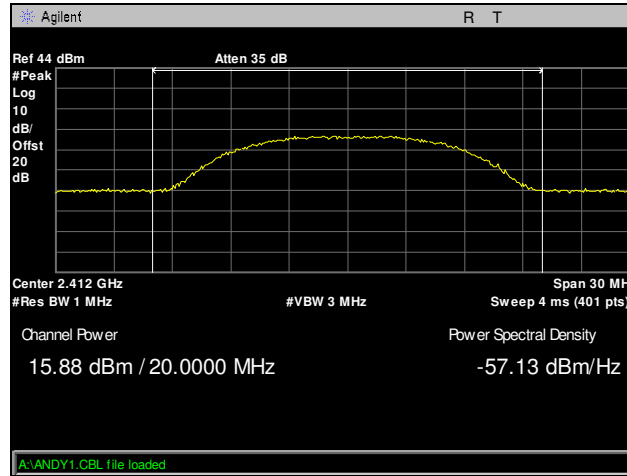


**Plot 85. Peak Power Output, Mid Channel, 802.11n 10 MHz, Parabolic Antenna**

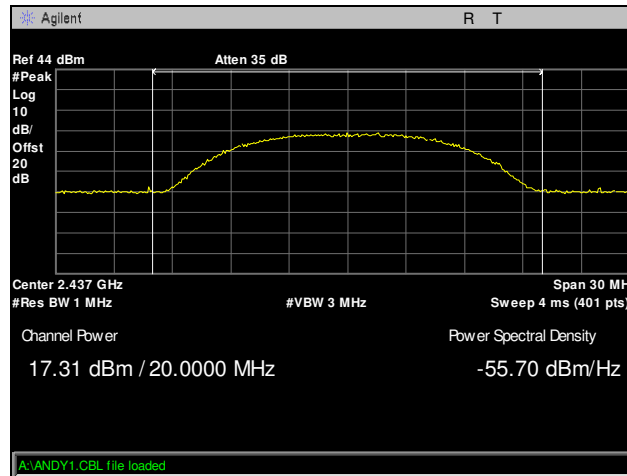


**Plot 86. Peak Power Output, High Channel, 802.11n 10 MHz, Parabolic Antenna**

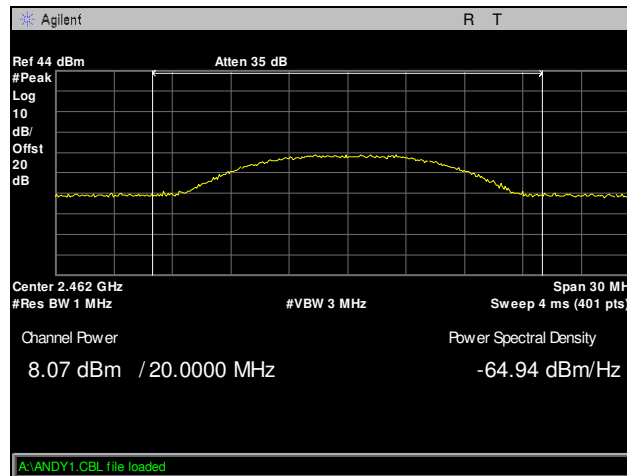
**Peak Power Output Test Results, 802.11b 20 MHz, Parabolic Antenna**



**Plot 87. Peak Power Output, Low Channel, 802.11b 20 MHz, Parabolic Antenna**

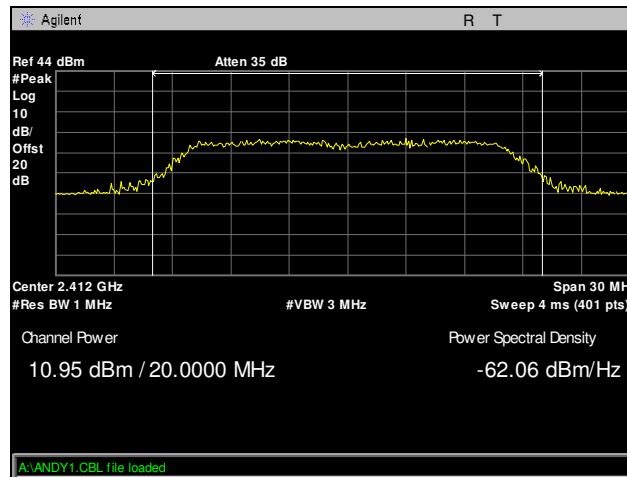


**Plot 88. Peak Power Output, Mid Channel, 802.11b 20 MHz, Parabolic Antenna**

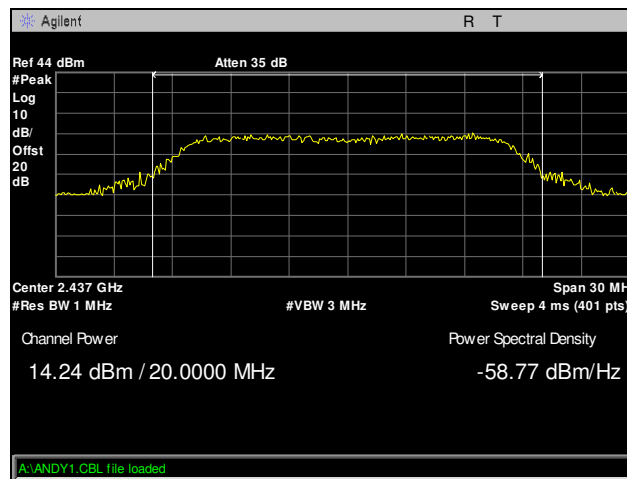


**Plot 89. Peak Power Output, High Channel, 802.11b 20 MHz, Parabolic Antenna**

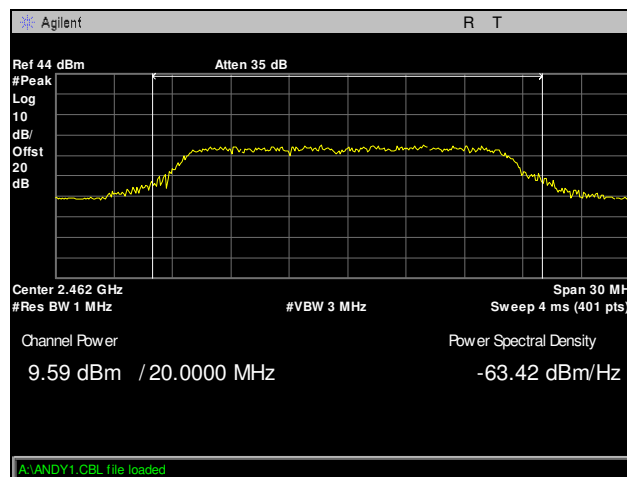
**Peak Power Output Test Results, 802.11g 20 MHz, Parabolic Antenna**



**Plot 90. Peak Power Output, Low Channel, 802.11g 20 MHz, Parabolic Antenna**

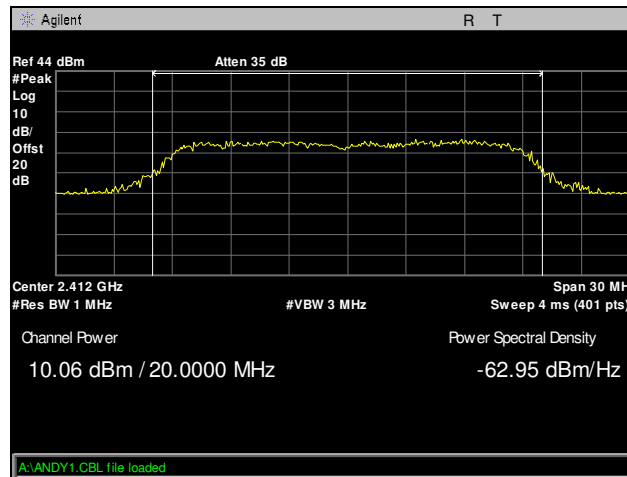


**Plot 91. Peak Power Output, Mid Channel, 802.11g 20 MHz, Parabolic Antenna**

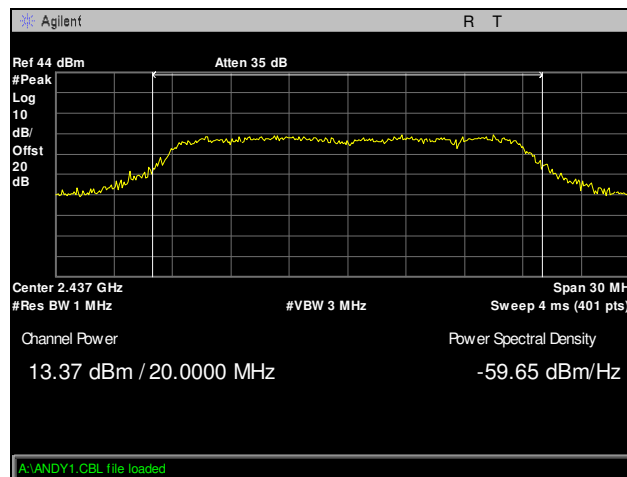


**Plot 92. Peak Power Output, High Channel, 802.11g 20 MHz, Parabolic Antenna**

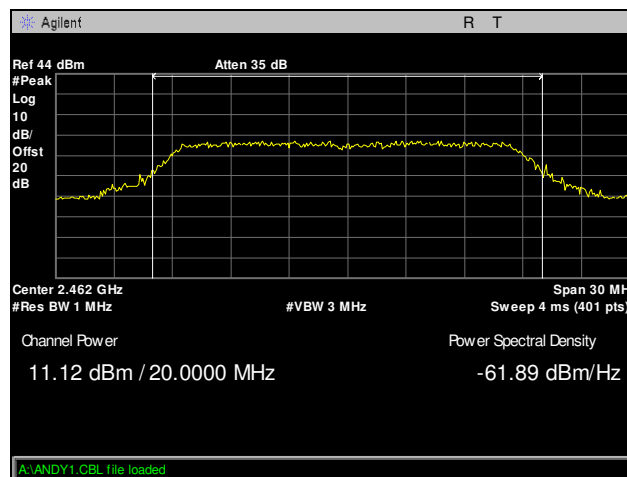
**Peak Power Output Test Results, 802.11n 20 MHz, Parabolic Antenna**



**Plot 93. Peak Power Output, Low Channel, 802.11n 20 MHz, Parabolic Antenna**

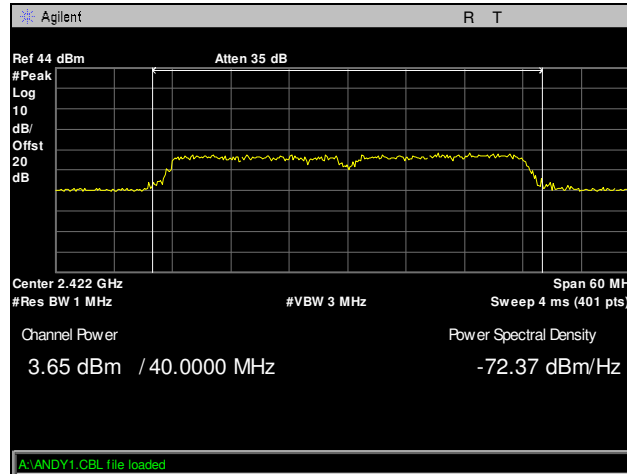


**Plot 94. Peak Power Output, Mid Channel, 802.11n 20 MHz, Parabolic Antenna**

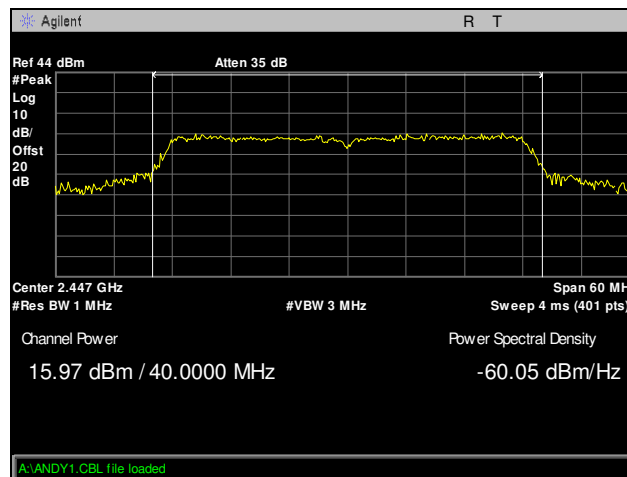


**Plot 95. Peak Power Output, High Channel, 802.11n 20 MHz, Parabolic Antenna**

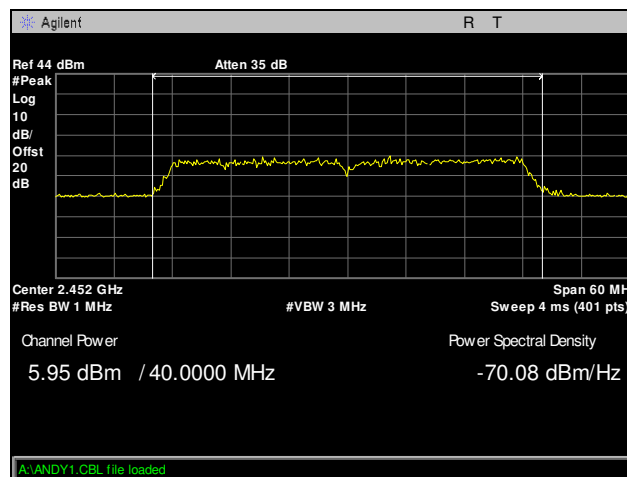
**Peak Power Output Test Results, 802.11g 40 MHz, Parabolic Antenna**



**Plot 96. Peak Power Output, Low Channel, 802.11g 40 MHz, Parabolic Antenna**

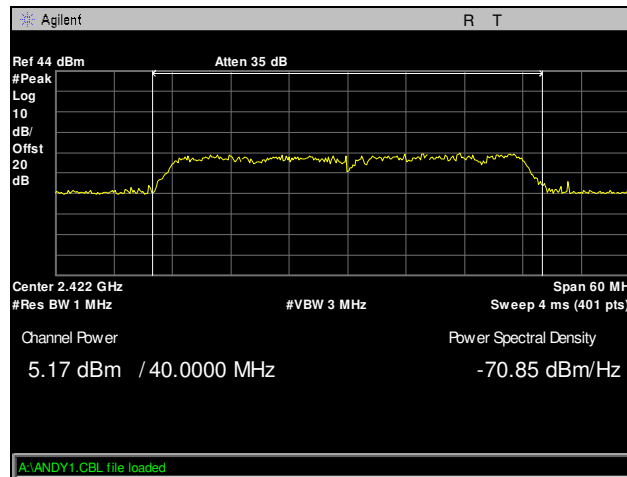


**Plot 97. Peak Power Output, Mid Channel, 802.11g 40 MHz, Parabolic Antenna**

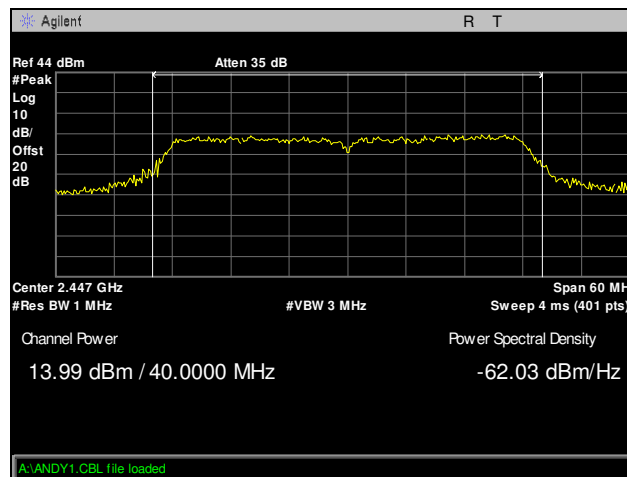


**Plot 98. Peak Power Output, High Channel, 802.11g 40 MHz, Parabolic Antenna**

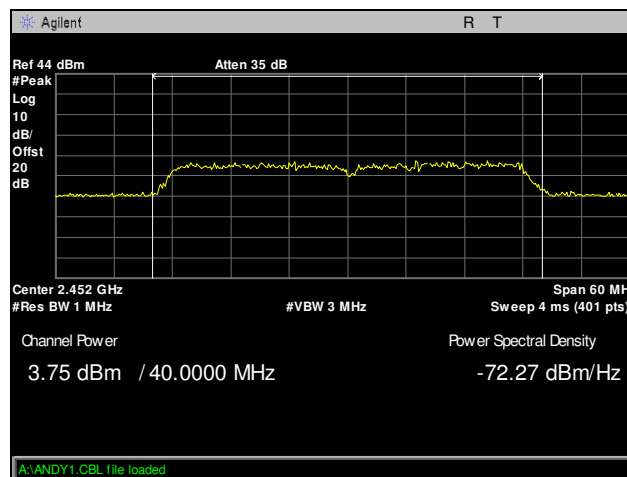
**Peak Power Output Test Results, 802.11n 40 MHz, Parabolic Antenna**



**Plot 99. Peak Power Output, Low Channel, 802.11n 40 MHz, Parabolic Antenna**

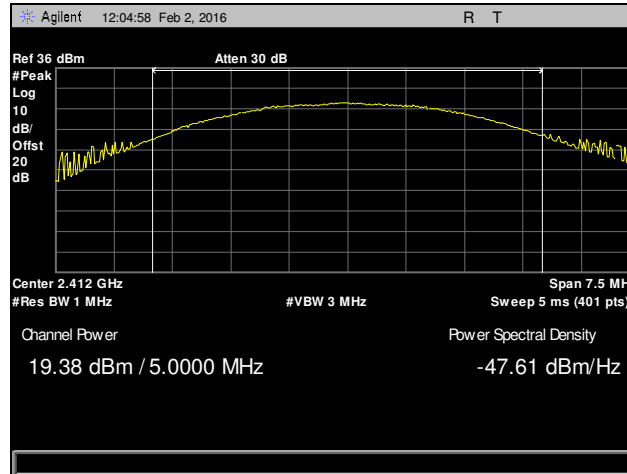


**Plot 100. Peak Power Output, Mid Channel, 802.11n 40 MHz, Parabolic Antenna**

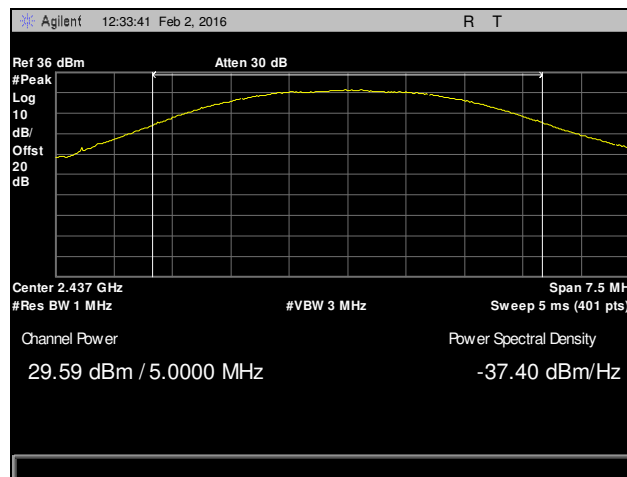


**Plot 101. Peak Power Output, High Channel, 802.11n 40 MHz, Parabolic Antenna**

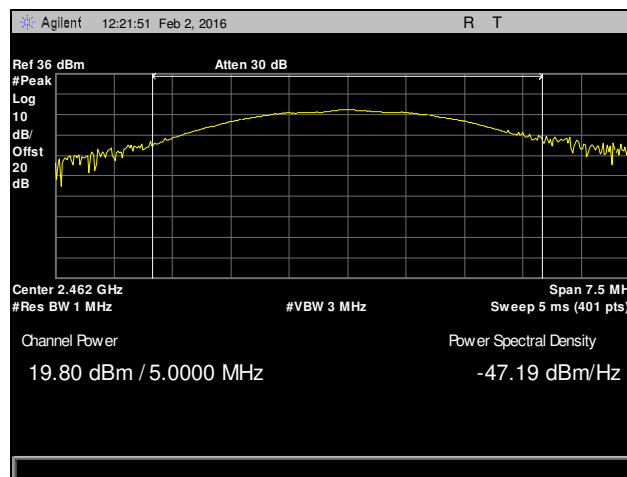
**Peak Power Output Test Results, 802.11b 5 MHz, Yagi Antenna**



**Plot 102. Peak Power Output, Low Channel, 802.11b 5 MHz, Yagi Antenna**

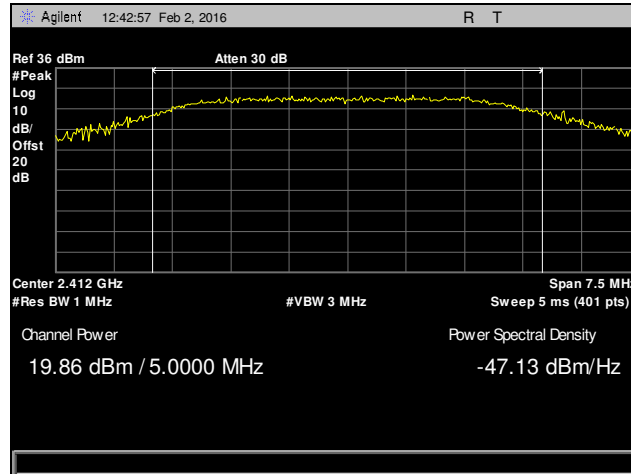


**Plot 103. Peak Power Output, Mid Channel, 802.11b 5 MHz, Yagi Antenna**

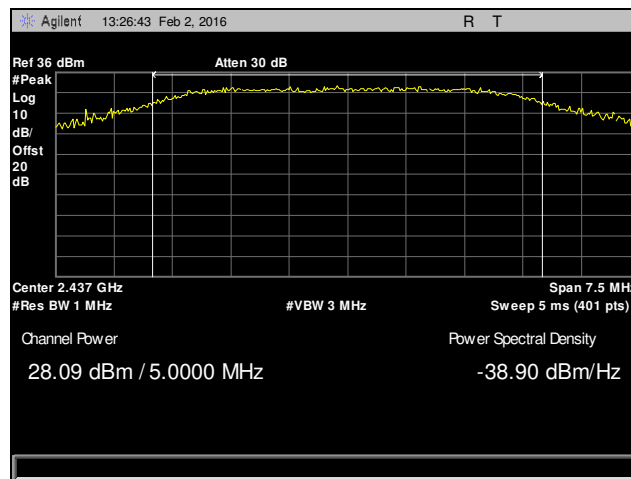


**Plot 104. Peak Power Output, High Channel, 802.11b 5 MHz, Yagi Antenna**

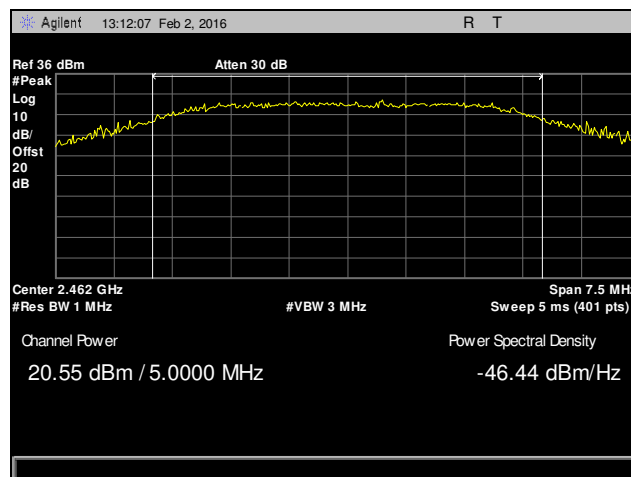
## Peak Power Output Test Results, 802.11g 5 MHz, Yagi Antenna



Plot 105. Peak Power Output, Low Channel, 802.11g 5 MHz, Yagi Antenna



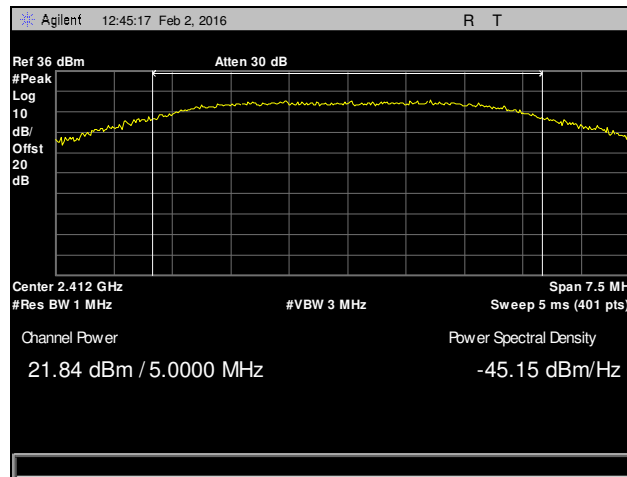
Plot 106. Peak Power Output, Mid Channel, 802.11g 5 MHz, Yagi Antenna



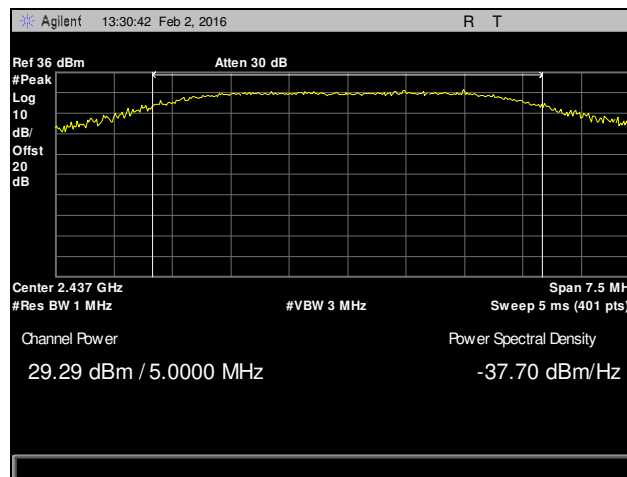
Plot 107. Peak Power Output, High Channel, 802.11g 5 MHz, Yagi Antenna



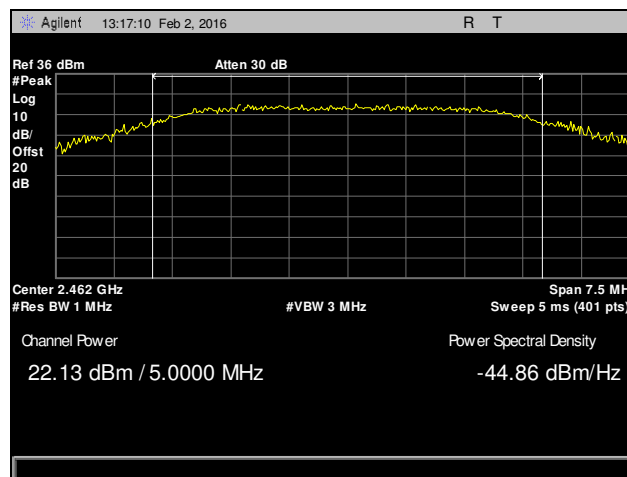
**Peak Power Output Test Results, 802.11n 5 MHz, Yagi Antenna**



**Plot 108. Peak Power Output, Low Channel, 802.11n 5 MHz, Yagi Antenna**

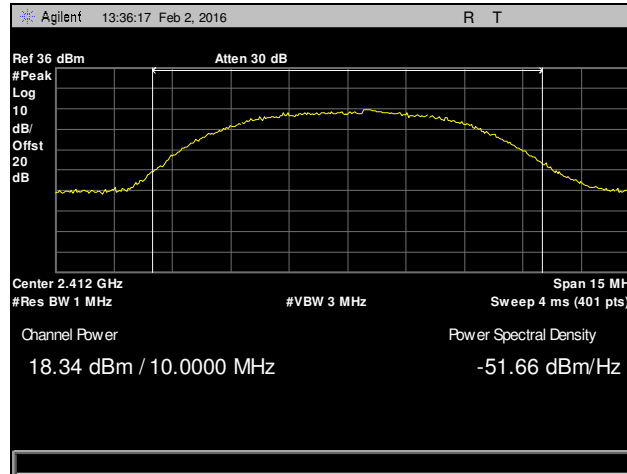


**Plot 109. Peak Power Output, Mid Channel, 802.11n 5 MHz, Yagi Antenna**

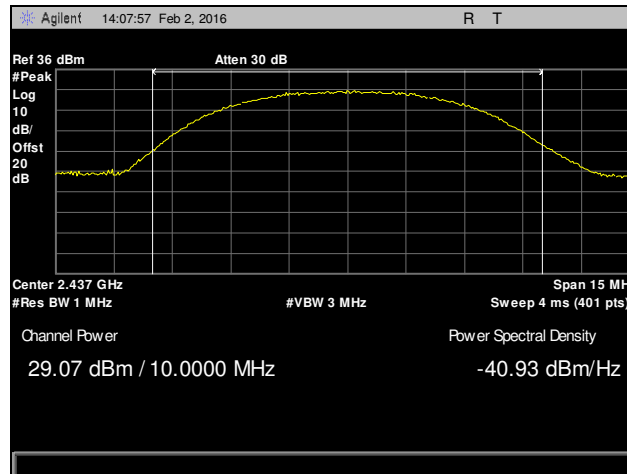


**Plot 110. Peak Power Output, High Channel, 802.11n 5 MHz, Yagi Antenna**

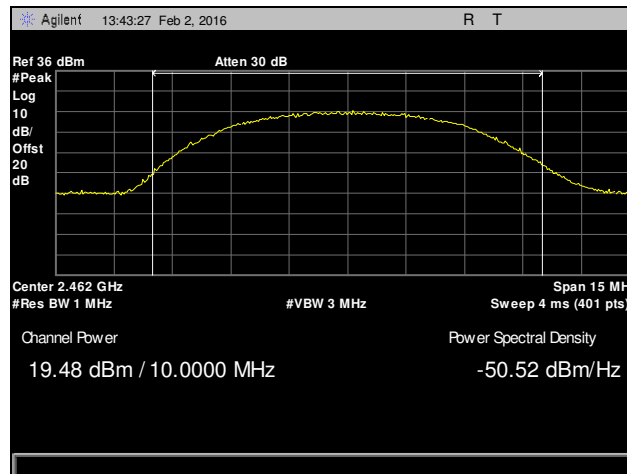
**Peak Power Output Test Results, 802.11b 10 MHz, Yagi Antenna**



**Plot 111. Peak Power Output, Low Channel, 802.11b 10 MHz, Yagi Antenna**

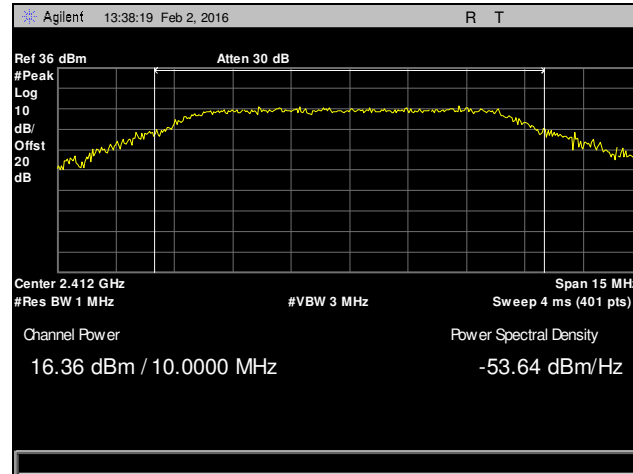


**Plot 112. Peak Power Output, Mid Channel, 802.11b 10 MHz, Yagi Antenna**

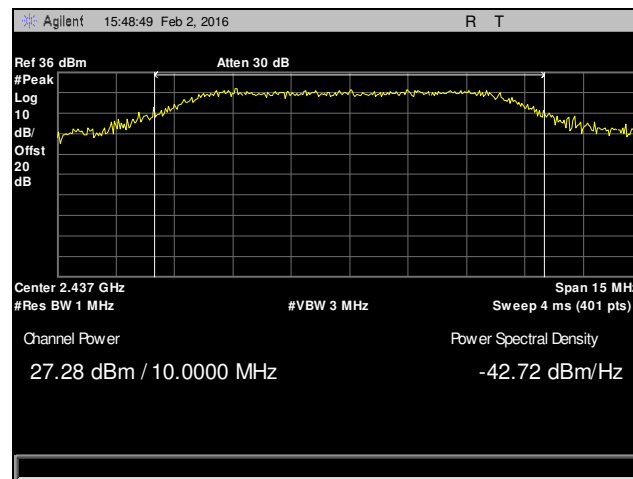


**Plot 113. Peak Power Output, High Channel, 802.11b 10 MHz, Yagi Antenna**

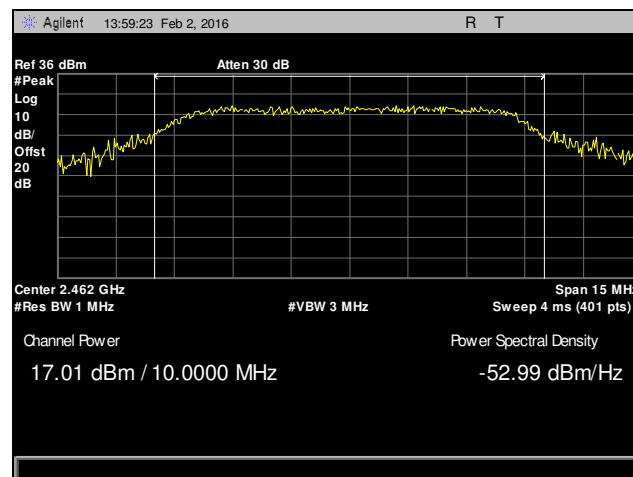
## Peak Power Output Test Results, 802.11g 10 MHz, Yagi Antenna



Plot 114. Peak Power Output, Low Channel, 802.11g 10 MHz, Yagi Antenna

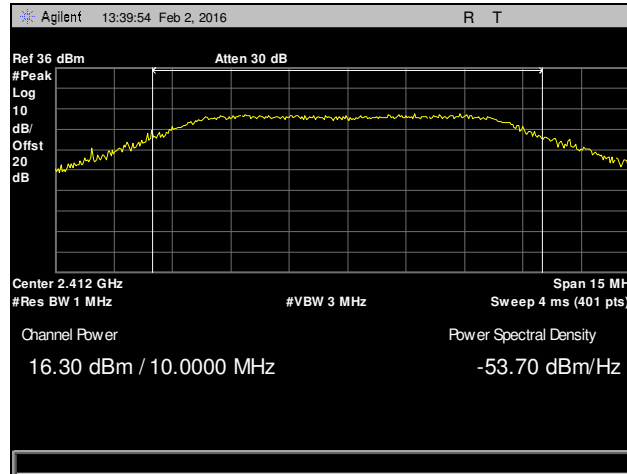


Plot 115. Peak Power Output, Mid Channel, 802.11g 10 MHz, Yagi Antenna

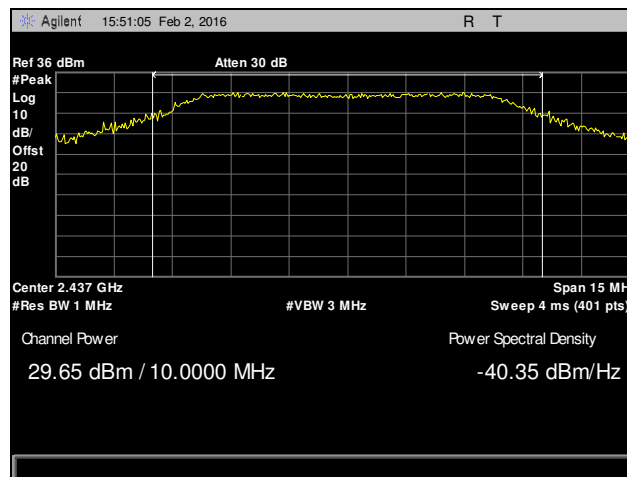


Plot 116. Peak Power Output, High Channel, 802.11g 10 MHz, Yagi Antenna

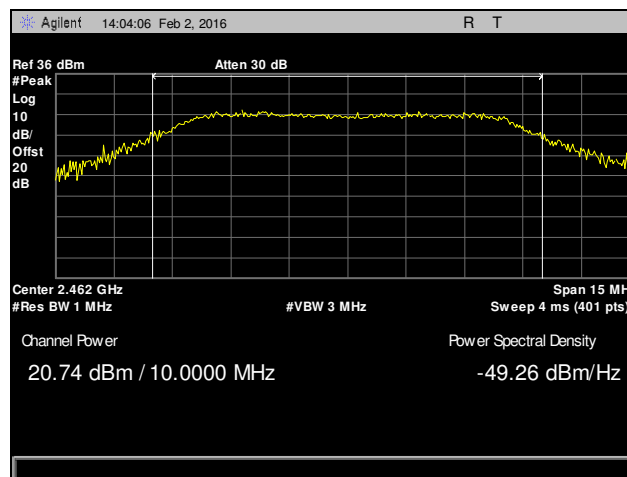
**Peak Power Output Test Results, 802.11n 10 MHz, Yagi Antenna**



**Plot 117. Peak Power Output, Low Channel, 802.11n 10 MHz, Yagi Antenna**

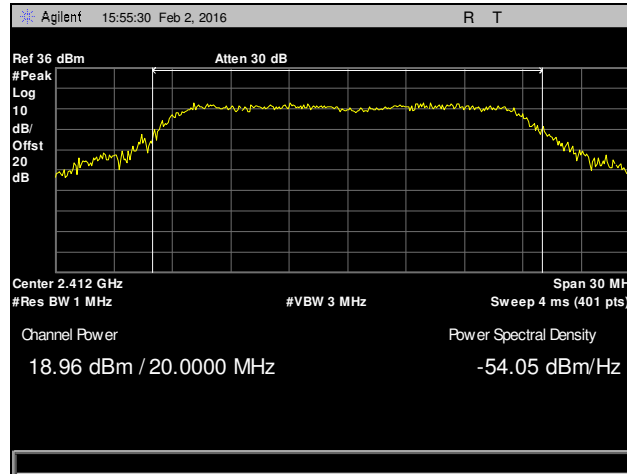


**Plot 118. Peak Power Output, Mid Channel, 802.11n 10 MHz, Yagi Antenna**

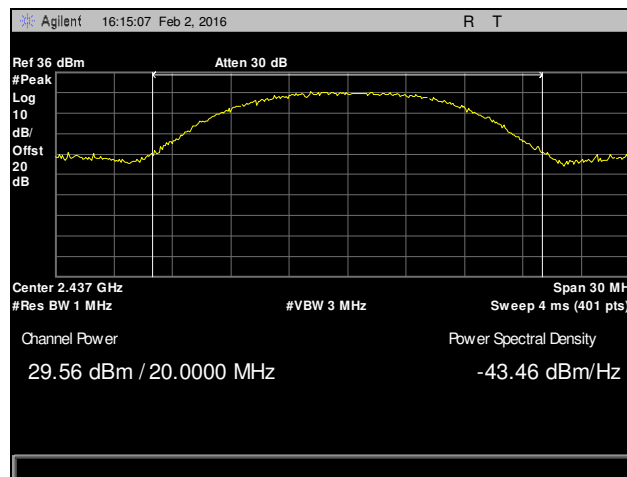


**Plot 119. Peak Power Output, High Channel, 802.11n 10 MHz, Yagi Antenna**

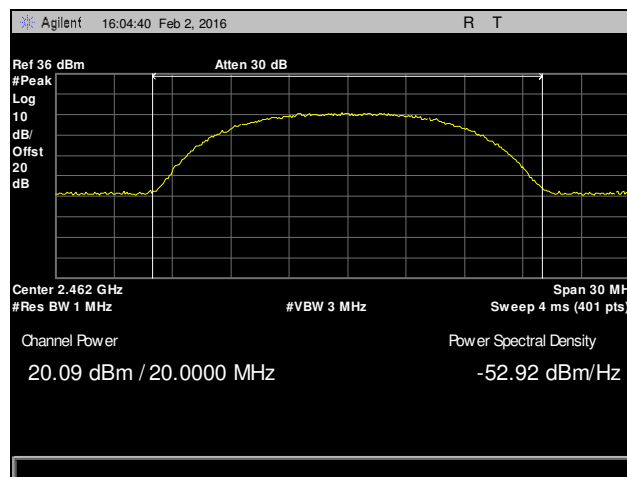
**Peak Power Output Test Results, 802.11b 20 MHz, Yagi Antenna**



**Plot 120. Peak Power Output, Low Channel, 802.11b 20 MHz, Yagi Antenna**

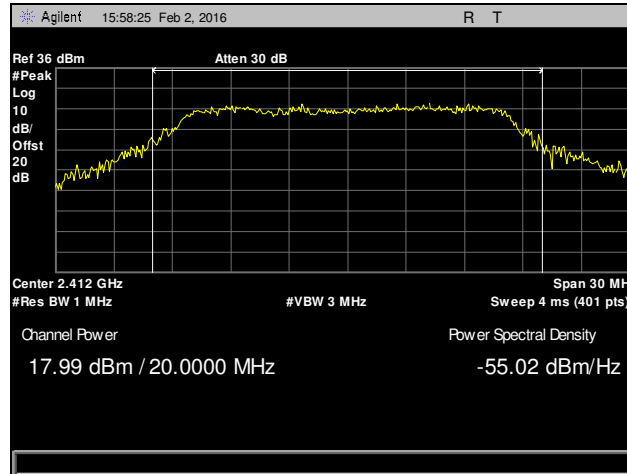


**Plot 121. Peak Power Output, Mid Channel, 802.11b 20 MHz, Yagi Antenna**

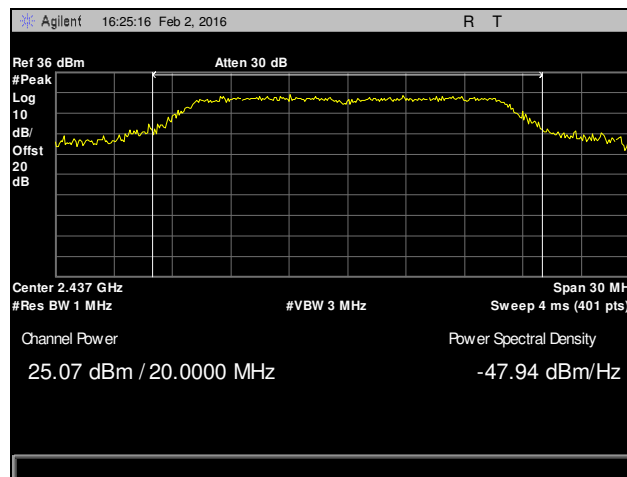


**Plot 122. Peak Power Output, High Channel, 802.11b 20 MHz, Yagi Antenna**

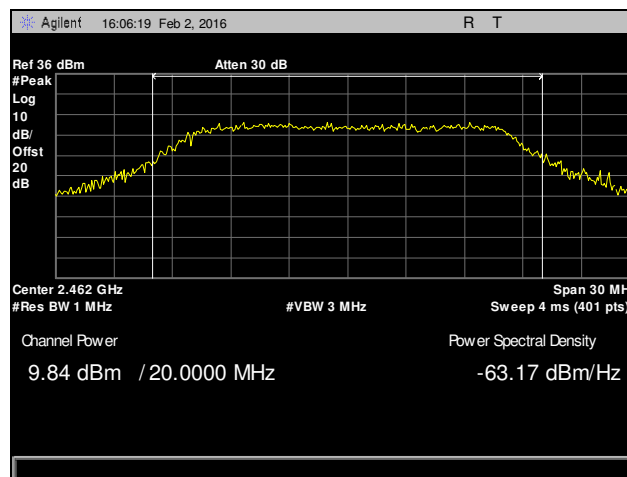
**Peak Power Output Test Results, 802.11g 20 MHz, Yagi Antenna**



**Plot 123. Peak Power Output, Low Channel, 802.11g 20 MHz, Yagi Antenna**

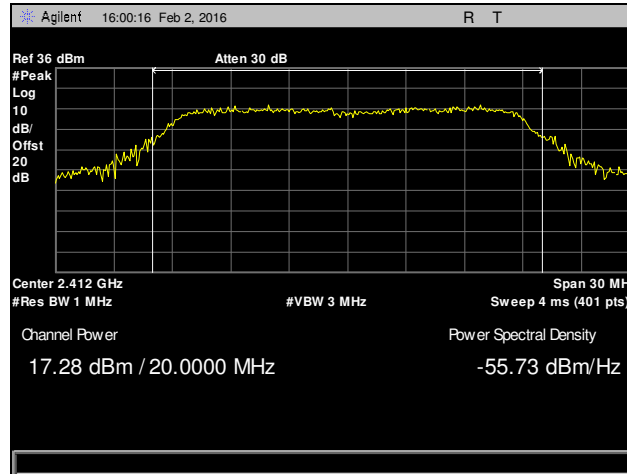


**Plot 124. Peak Power Output, Mid Channel, 802.11g 20 MHz, Yagi Antenna**

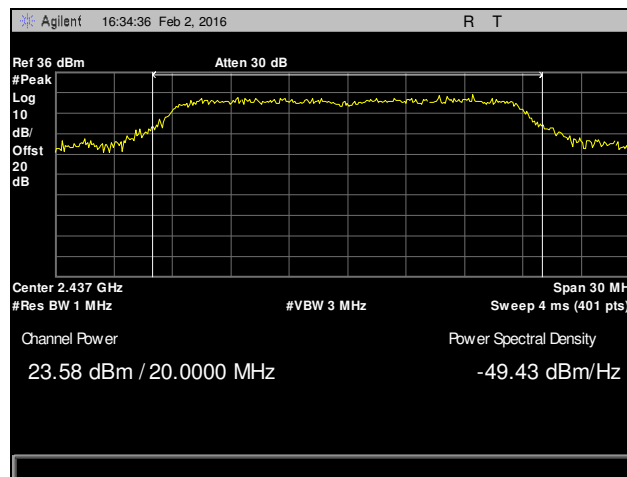


**Plot 125. Peak Power Output, High Channel, 802.11g 20 MHz, Yagi Antenna**

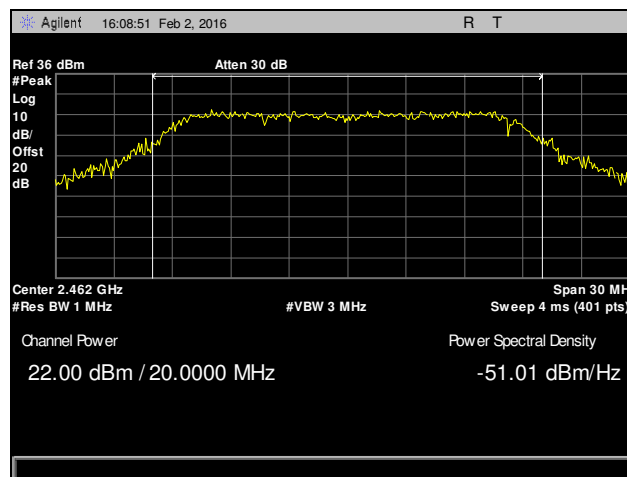
**Peak Power Output Test Results, 802.11n 20 MHz, Yagi Antenna**



**Plot 126. Peak Power Output, Low Channel, 802.11n 20 MHz, Yagi Antenna**

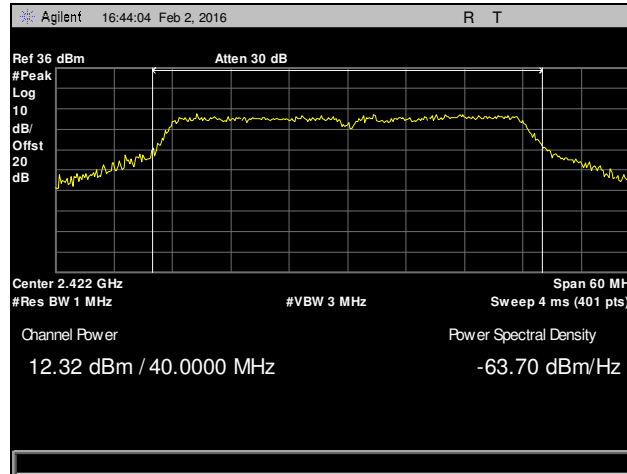


**Plot 127. Peak Power Output, Mid Channel, 802.11n 20 MHz, Yagi Antenna**

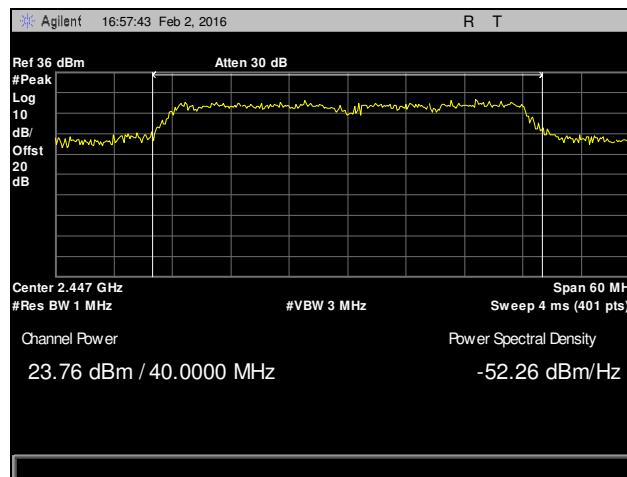


**Plot 128. Peak Power Output, High Channel, 802.11n 20 MHz, Yagi Antenna**

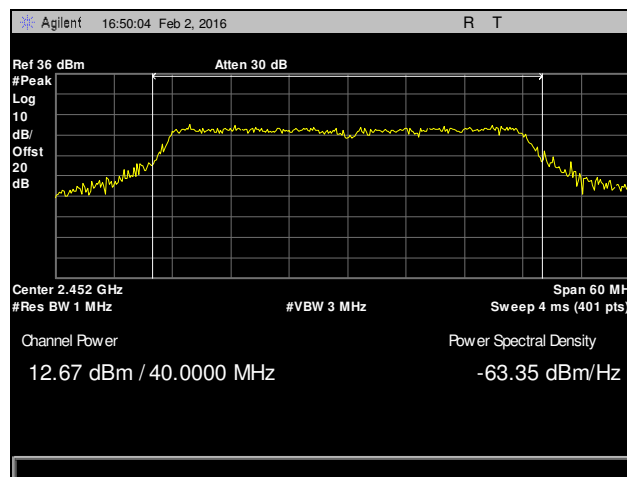
**Peak Power Output Test Results, 802.11g 40 MHz, Yagi Antenna**



**Plot 129. Peak Power Output, Low Channel, 802.11g 40 MHz, Yagi Antenna**



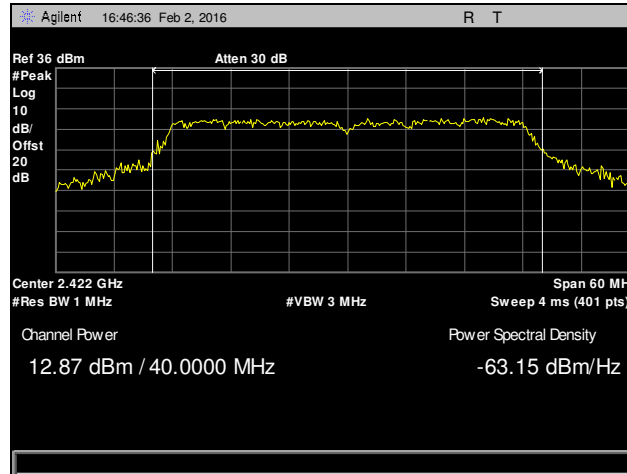
**Plot 130. Peak Power Output, Mid Channel, 802.11g 40 MHz, Yagi Antenna**



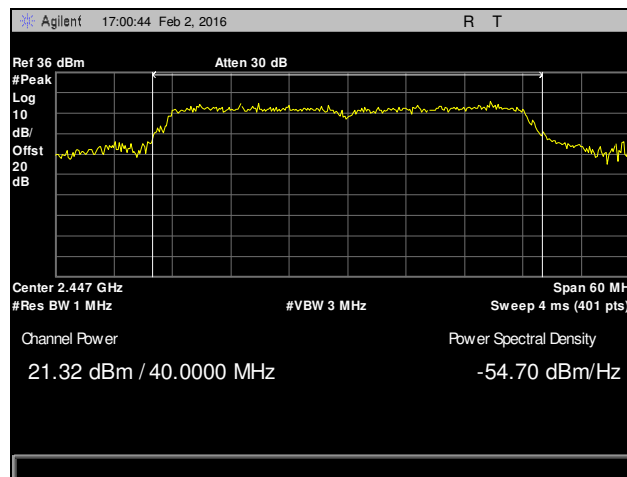
**Plot 131. Peak Power Output, High Channel, 802.11g 40 MHz, Yagi Antenna**



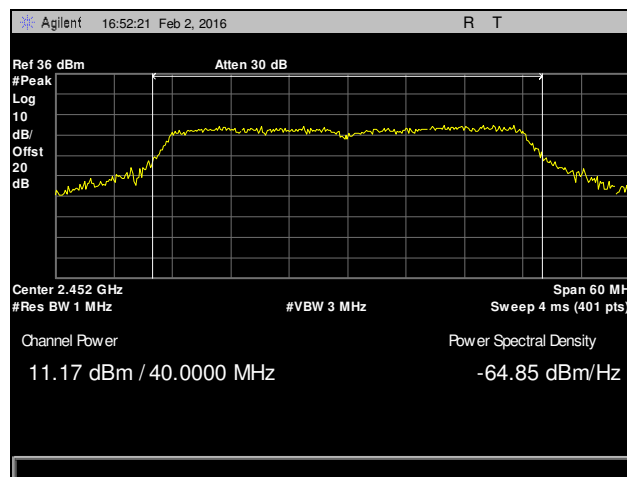
**Peak Power Output Test Results, 802.11n 40 MHz, Yagi Antenna**



**Plot 132. Peak Power Output, Low Channel, 802.11n 40 MHz, Yagi Antenna**



**Plot 133. Peak Power Output, Mid Channel, 802.11n 40 MHz, Yagi Antenna**



**Plot 134. Peak Power Output, High Channel, 802.11n 40 MHz, Yagi Antenna**

## Electromagnetic Compatibility Criteria for Intentional Radiators

### § 15.247(d) Radiated Spurious Emissions Requirements and Band Edge

**Test Requirements:** §15.247(d); §15.205: Emissions outside the frequency band.

**§15.247(d):** In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required. 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).

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

MHz	MHz	MHz	GHz
0.090–0.110-----	16.42–16.423	399.9–410	4.5–5.15
<sup>1</sup> 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	( <sup>2</sup> )

**Table 19. Restricted Bands of Operation**

<sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490 – 0.510 MHz.

<sup>2</sup> Above 38.6

**Test Requirement(s):** § 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 Table 20.

Frequency (MHz)	§ 15.209(a), Radiated Emission Limits (dB $\mu$ V) @ 3m
30 - 88	40.00
88 - 216	43.50
216 - 960	46.00
Above 960	54.00

**Table 20. Radiated Emissions Limits Calculated from FCC Part 15, § 15.209 (a)**

**Test Procedures:** The transmitter was turned on. Measurements were performed of the low, mid and high Channels. The EUT was rotated orthogonally through all three axes. Plots shown are corrected for both antenna correction factor and distance and compared to a 3 m limit line. Only noise floor was measured above 18 GHz.

#### **Radiated Band Edge Measurements**

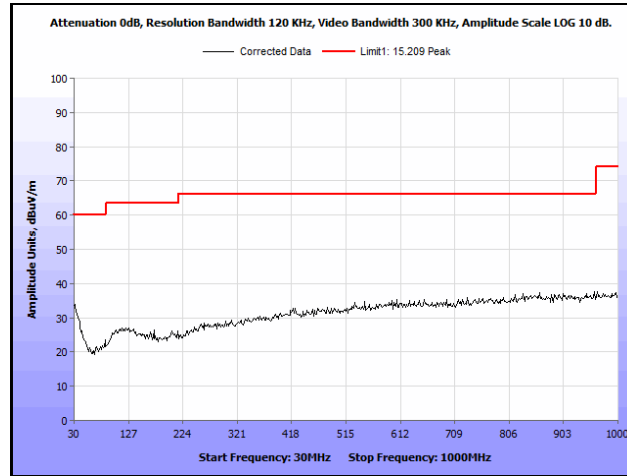
**Test Procedures:** The transmitter was turned on. Measurements were performed of the low, mid and high Channels. The EUT was rotated orthogonally through all three axes. Plots shown are corrected for both antenna correction factor and distance and compared to a 3 m limit line.

**Test Results:** The EUT was compliant with the Radiated Spurious Emission limits of § 15.247(d).

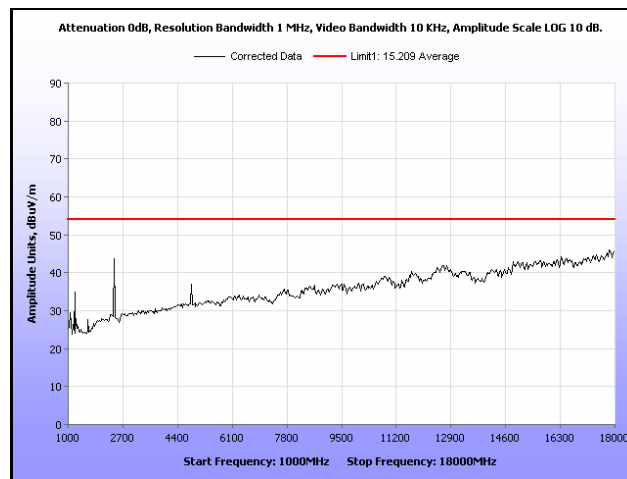
**Test Engineer(s):** Arsalan Hasan

**Test Date(s):** 02/15/16

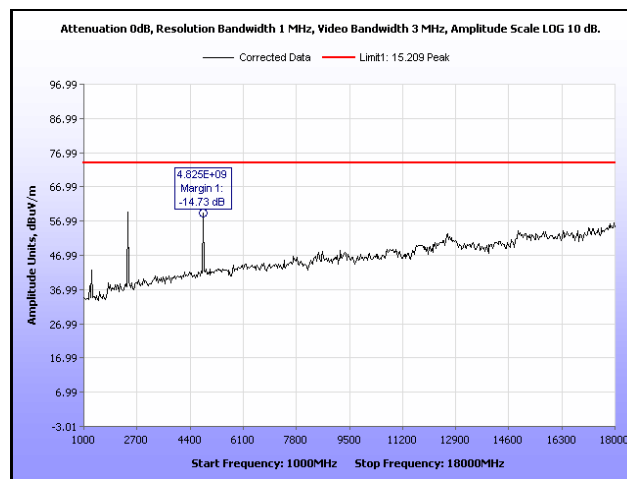
**Radiated Spurious Emissions Test Results, 802.11b 5 MHz, Omni Antenna**



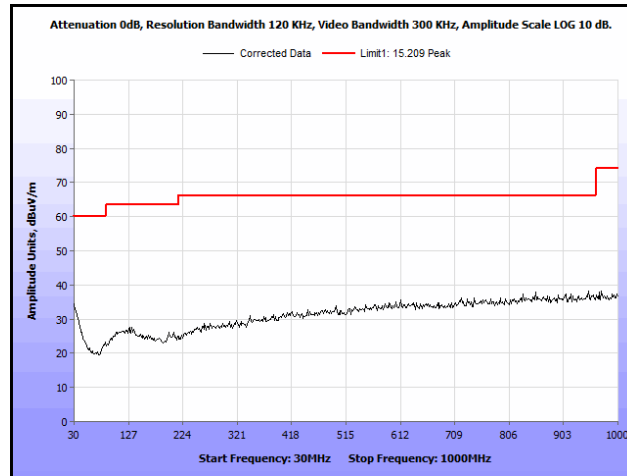
**Plot 135. Radiated Spurious Emissions, Low Channel, 802.11b 5 MHz, Omni Antenna, 30 MHz – 1 GHz**



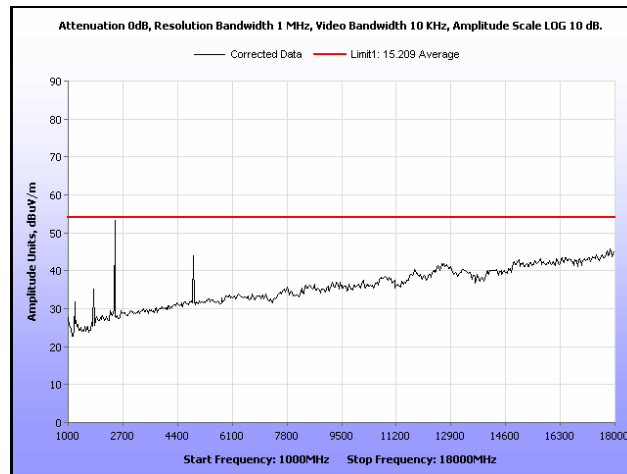
**Plot 136. Radiated Spurious Emissions, Low Channel, 802.11b 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**



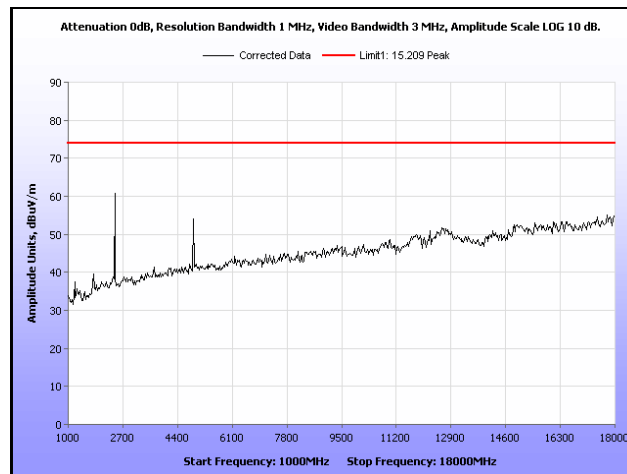
**Plot 137. Radiated Spurious Emissions, Low Channel, 802.11b 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**



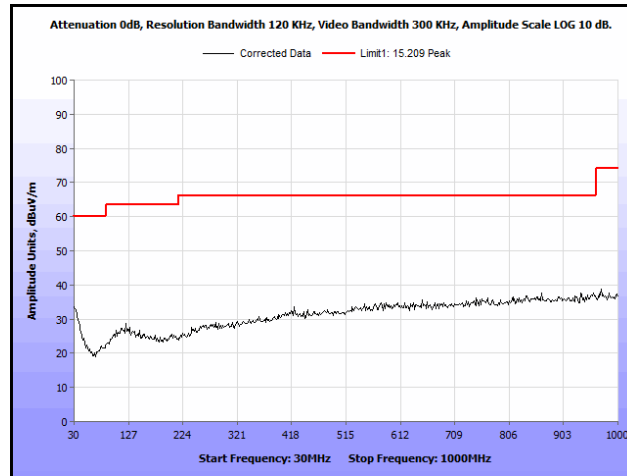
**Plot 138. Radiated Spurious Emissions, Mid Channel, 802.11b 5 MHz, Omni Antenna, 30 MHz – 1 GHz**



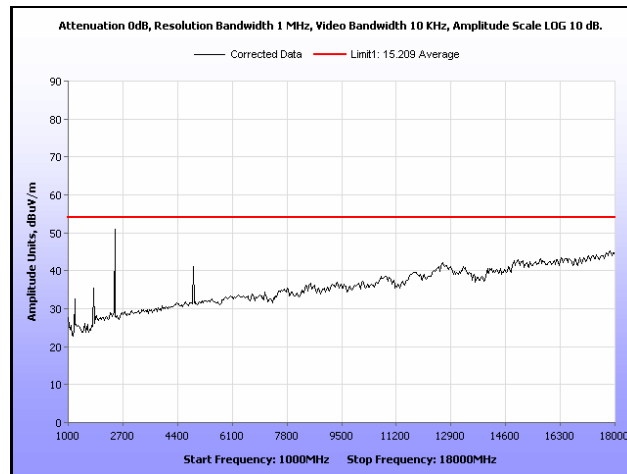
**Plot 139. Radiated Spurious Emissions, Mid Channel, 802.11b 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**



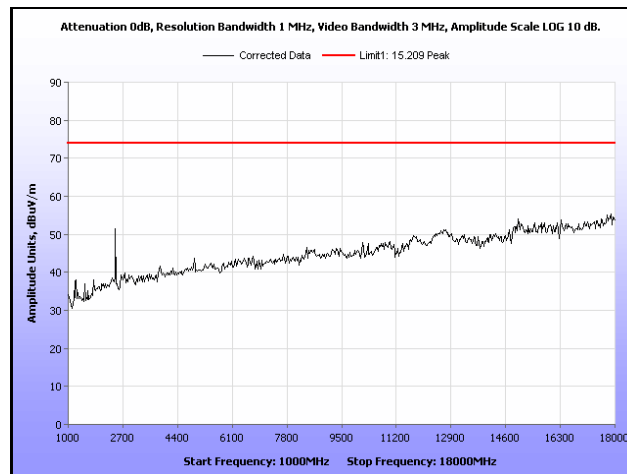
**Plot 140. Radiated Spurious Emissions, Mid Channel, 802.11b 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**



**Plot 141. Radiated Spurious Emissions, High Channel, 802.11b 5 MHz, Omni Antenna, 30 MHz – 1 GHz**

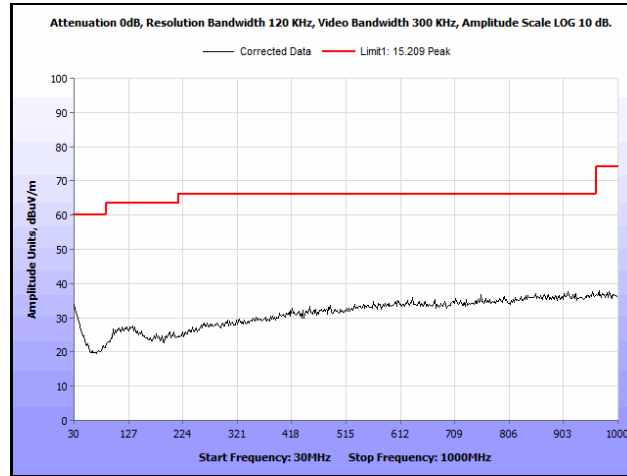


**Plot 142. Radiated Spurious Emissions, High Channel, 802.11b 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**

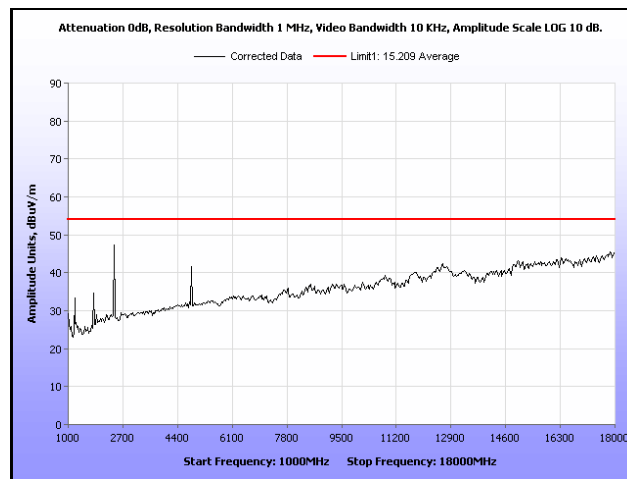


**Plot 143. Radiated Spurious Emissions, High Channel, 802.11b 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**

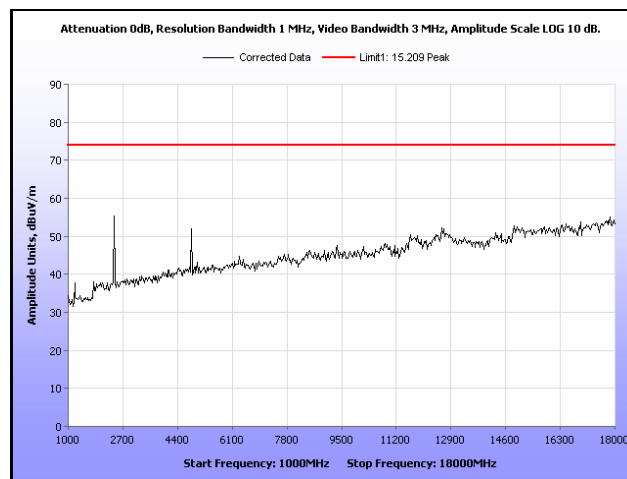
**Radiated Spurious Emissions Test Results, 802.11g 5 MHz, Omni Antenna**



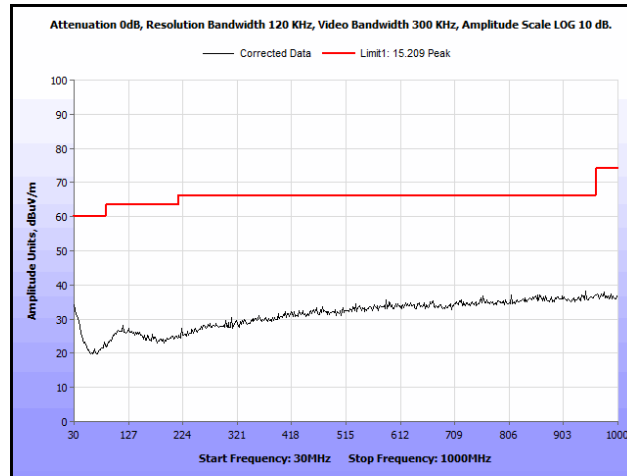
**Plot 144. Radiated Spurious Emissions, Low Channel, 802.11g 5 MHz, Omni Antenna, 30 MHz – 1 GHz**



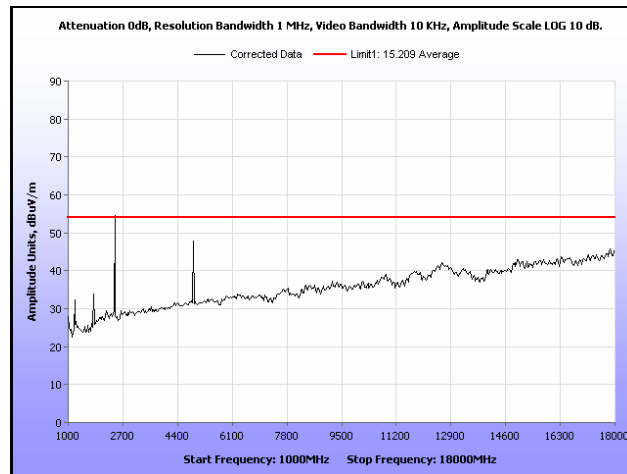
**Plot 145. Radiated Spurious Emissions, Low Channel, 802.11g 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**



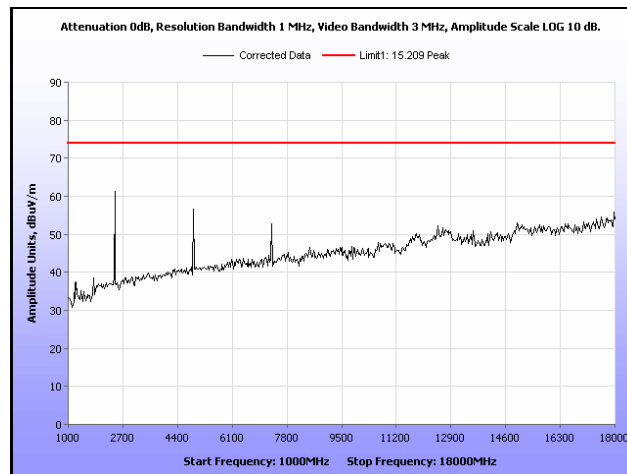
**Plot 146. Radiated Spurious Emissions, Low Channel, 802.11g 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**



**Plot 147. Radiated Spurious Emissions, Mid Channel, 802.11g 5 MHz, Omni Antenna, 30 MHz – 1 GHz**

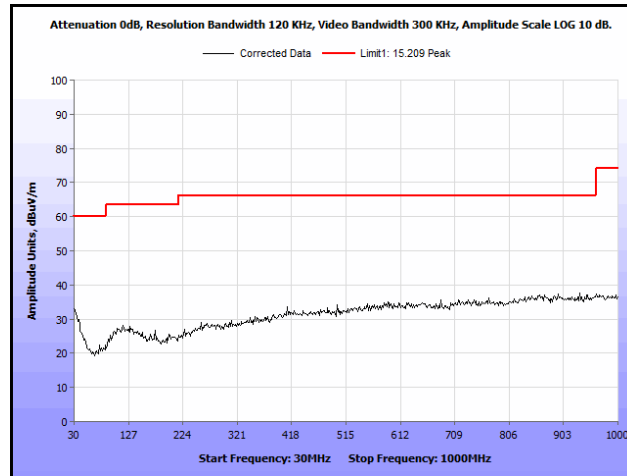


**Plot 148. Radiated Spurious Emissions, Mid Channel, 802.11g 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**

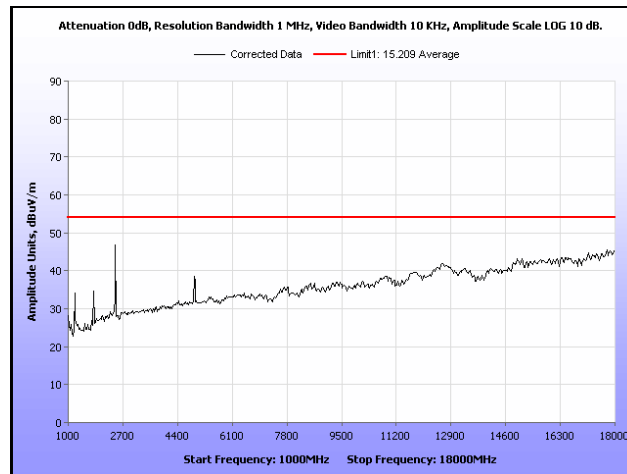


**Plot 149. Radiated Spurious Emissions, Mid Channel, 802.11g 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**

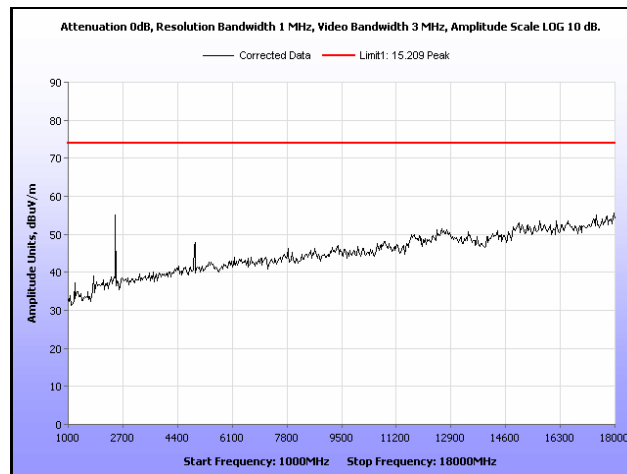




**Plot 150. Radiated Spurious Emissions, High Channel, 802.11g 5 MHz, Omni Antenna, 30 MHz – 1 GHz**

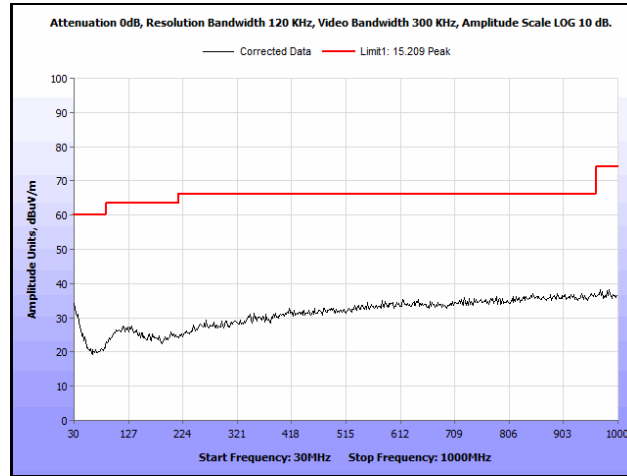


**Plot 151. Radiated Spurious Emissions, High Channel, 802.11g 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**

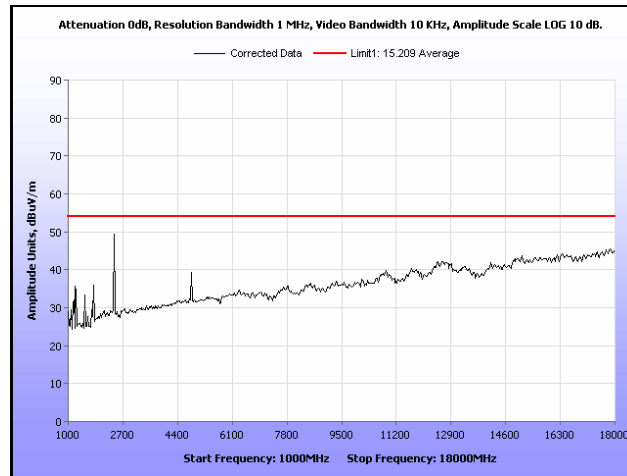


**Plot 152. Radiated Spurious Emissions, High Channel, 802.11g 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**

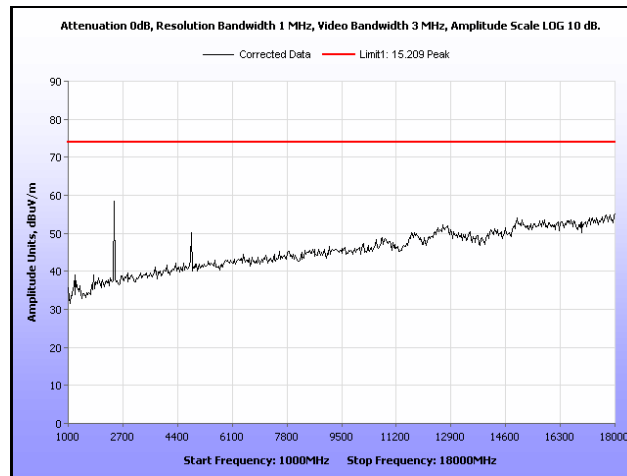
**Radiated Spurious Emissions Test Results, 802.11n 5 MHz, Omni Antenna**



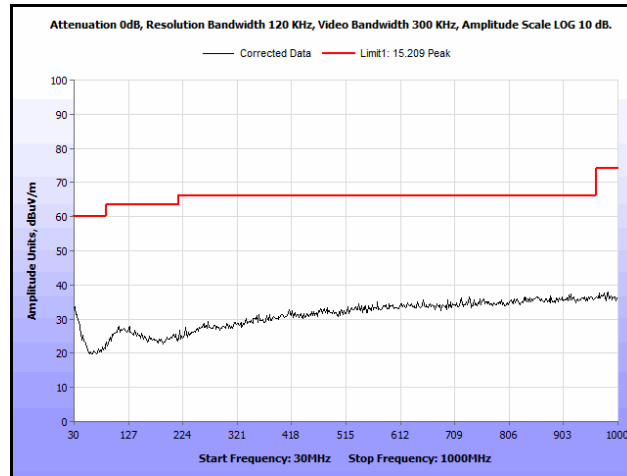
**Plot 153. Radiated Spurious Emissions, Low Channel, 802.11n 5 MHz, Omni Antenna, 30 MHz – 1 GHz**



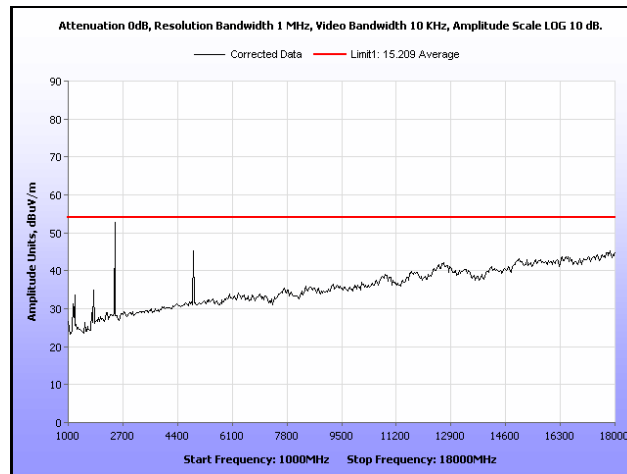
**Plot 154. Radiated Spurious Emissions, Low Channel, 802.11n 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**



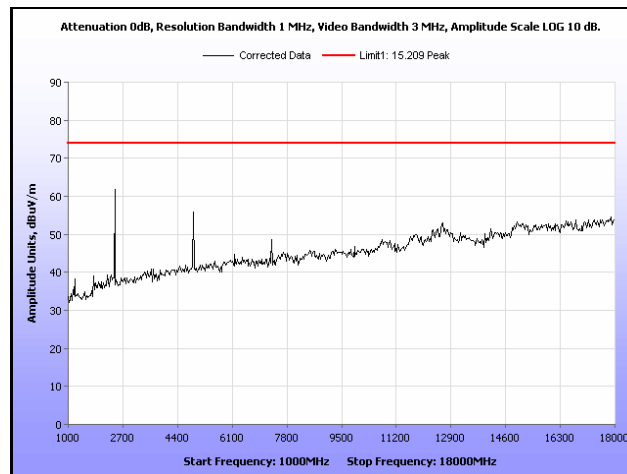
**Plot 155. Radiated Spurious Emissions, Low Channel, 802.11n 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**



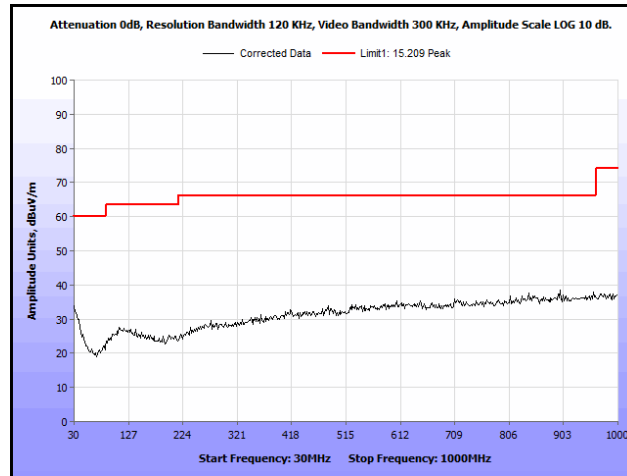
**Plot 156. Radiated Spurious Emissions, Mid Channel, 802.11n 5 MHz, Omni Antenna, 30 MHz – 1 GHz**



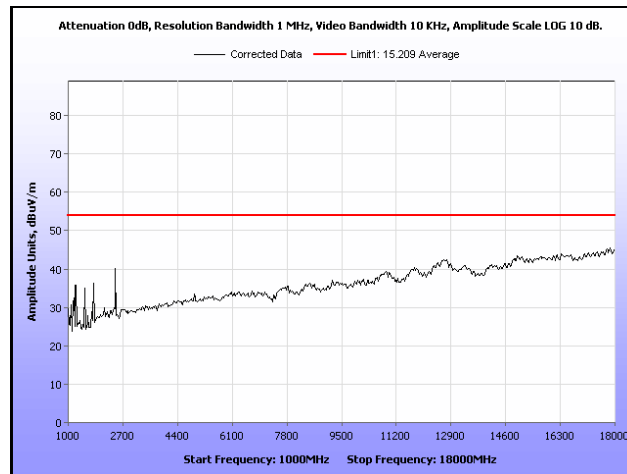
**Plot 157. Radiated Spurious Emissions, Mid Channel, 802.11n 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**



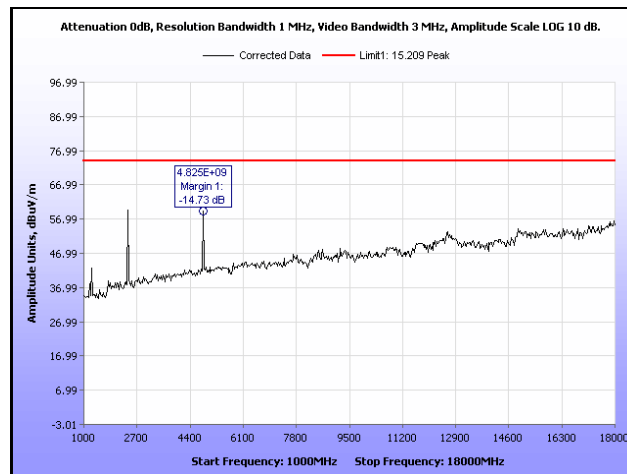
**Plot 158. Radiated Spurious Emissions, Mid Channel, 802.11n 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**



**Plot 159. Radiated Spurious Emissions, High Channel, 802.11n 5 MHz, Omni Antenna, 30 MHz – 1 GHz**

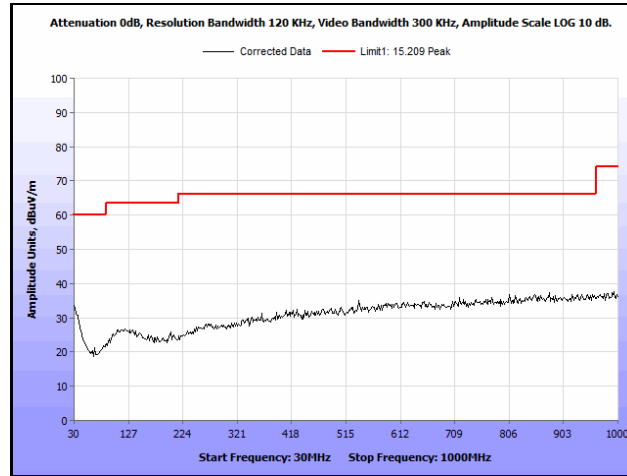


**Plot 160. Radiated Spurious Emissions, High Channel, 802.11n 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**

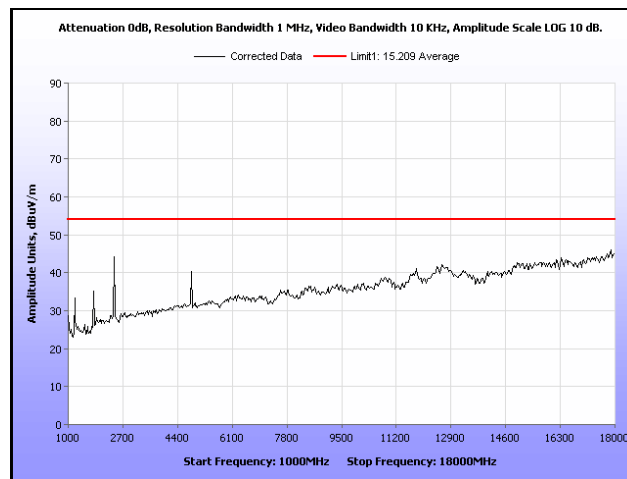


**Plot 161. Radiated Spurious Emissions, High Channel, 802.11n 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**

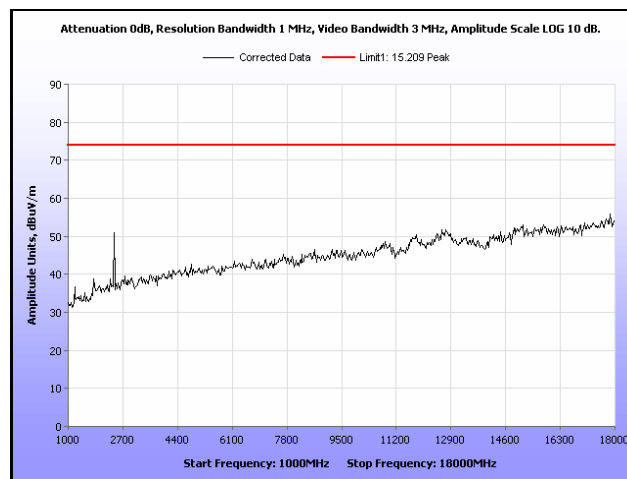
**Radiated Spurious Emissions Test Results, 802.11b 10 MHz, Omni Antenna**



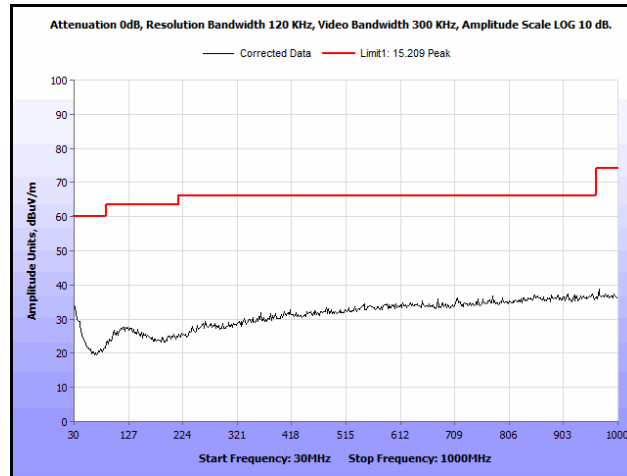
**Plot 162. Radiated Spurious Emissions, Low Channel, 802.11b 10 MHz, Omni Antenna, 30 MHz – 1 GHz**



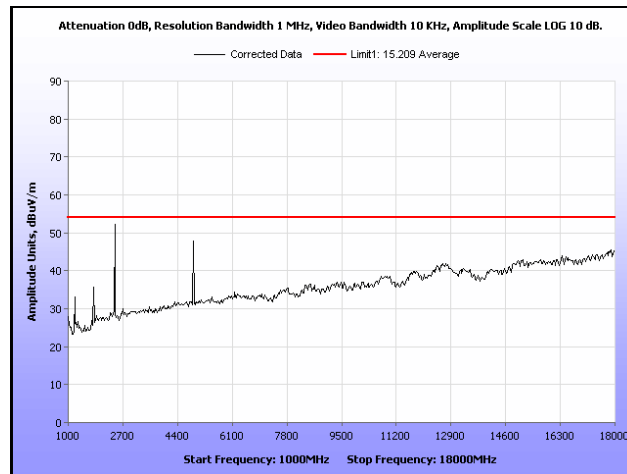
**Plot 163. Radiated Spurious Emissions, Low Channel, 802.11b 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**



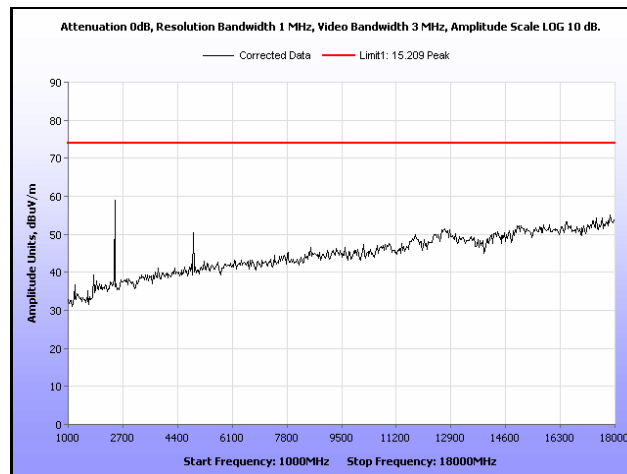
**Plot 164. Radiated Spurious Emissions, Low Channel, 802.11b 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**



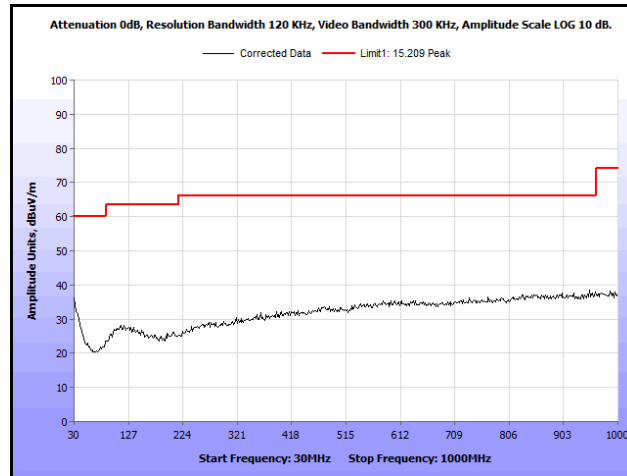
**Plot 165. Radiated Spurious Emissions, Mid Channel, 802.11b 10 MHz, Omni Antenna, 30 MHz – 1 GHz**



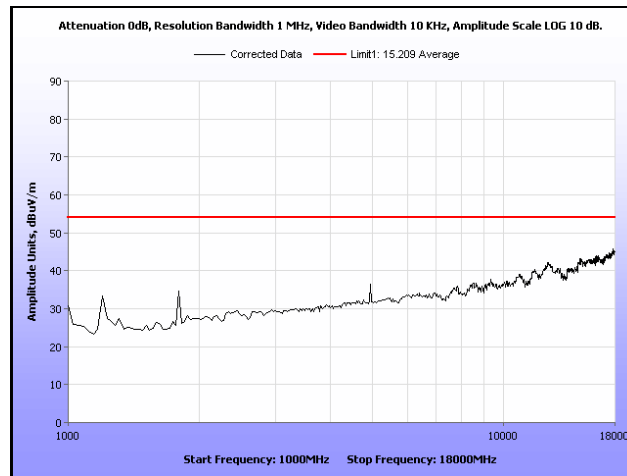
**Plot 166. Radiated Spurious Emissions, Mid Channel, 802.11b 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**



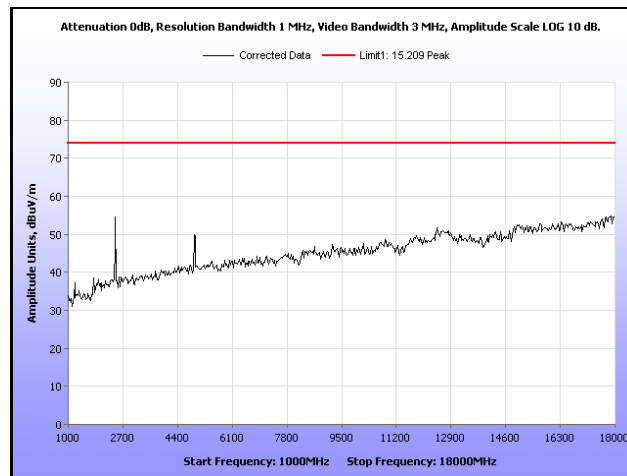
**Plot 167. Radiated Spurious Emissions, Mid Channel, 802.11b 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**



**Plot 168. Radiated Spurious Emissions, High Channel, 802.11b 10 MHz, Omni Antenna, 30 MHz – 1 GHz**

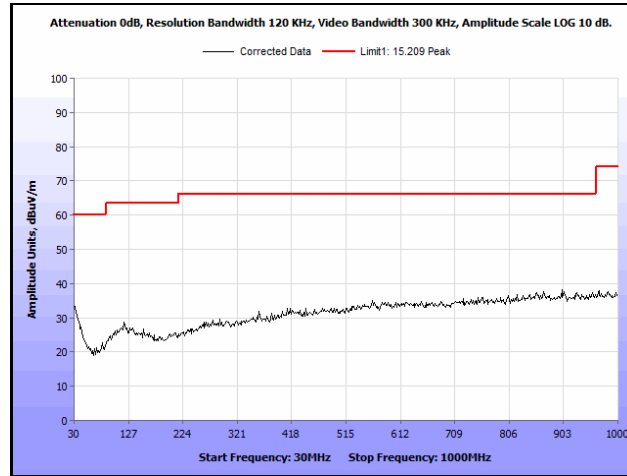


**Plot 169. Radiated Spurious Emissions, High Channel, 802.11b 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**

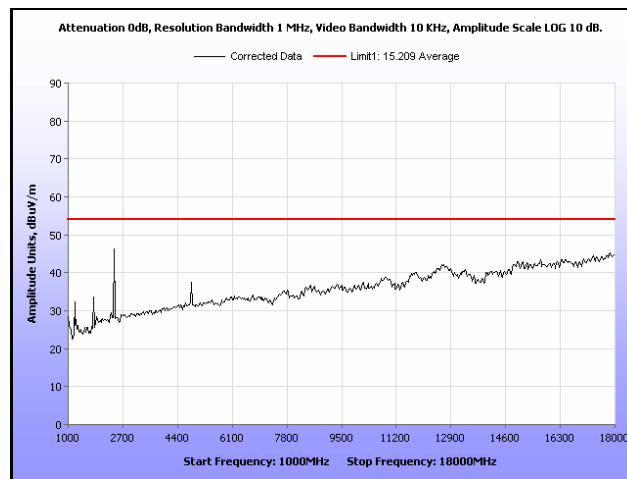


**Plot 170. Radiated Spurious Emissions, High Channel, 802.11b 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**

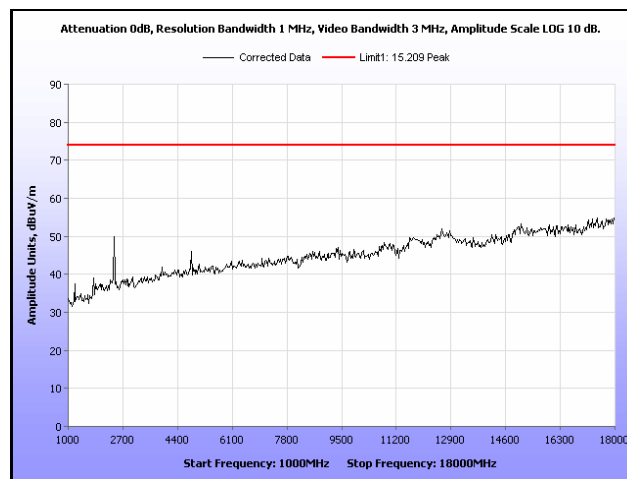
**Radiated Spurious Emissions Test Results, 802.11g 10 MHz, Omni Antenna**



**Plot 171. Radiated Spurious Emissions, Low Channel, 802.11g 10 MHz, Omni Antenna, 30 MHz – 1 GHz**

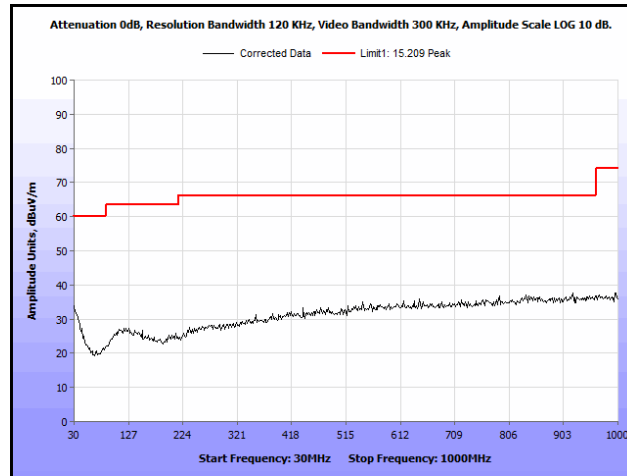


**Plot 172. Radiated Spurious Emissions, Low Channel, 802.11g 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**

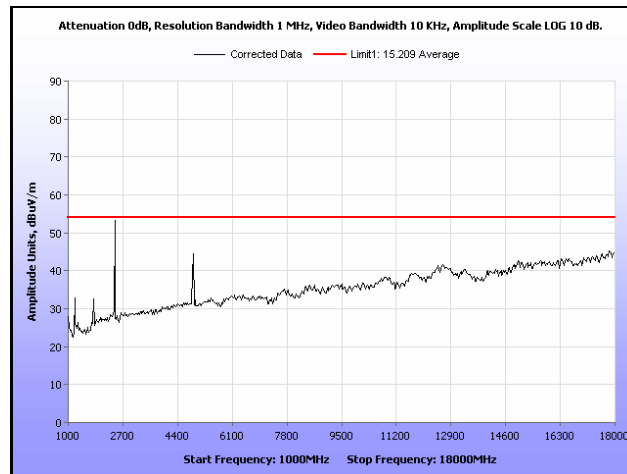


**Plot 173. Radiated Spurious Emissions, Low Channel, 802.11g 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**

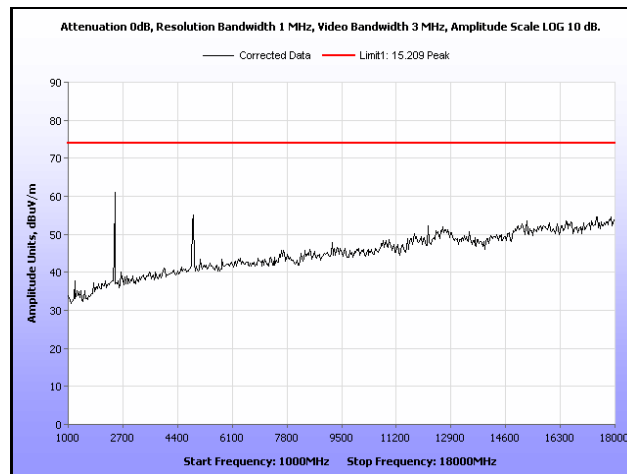




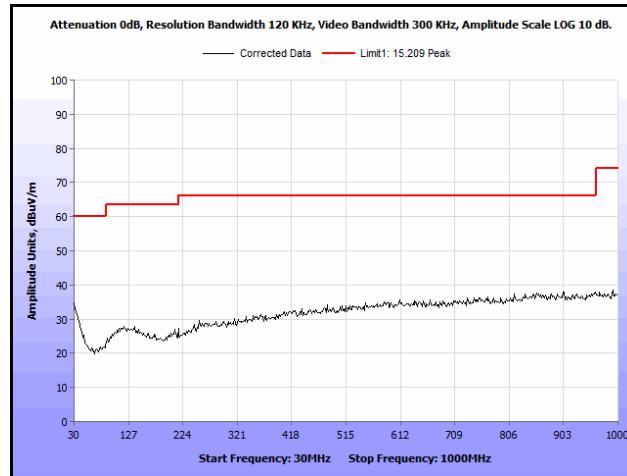
**Plot 174. Radiated Spurious Emissions, Mid Channel, 802.11g 10 MHz, Omni Antenna, 30 MHz – 1 GHz**



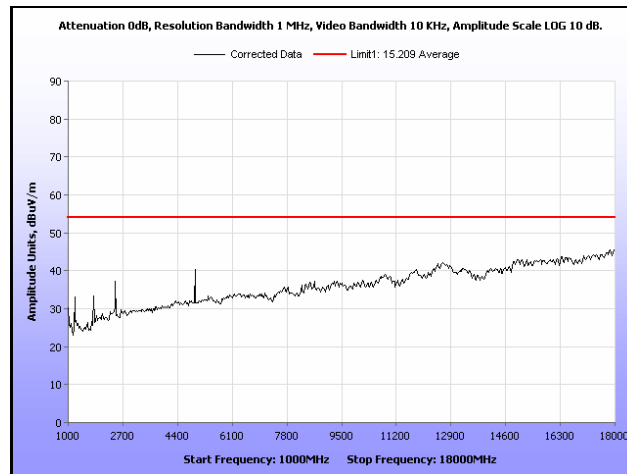
**Plot 175. Radiated Spurious Emissions, Mid Channel, 802.11g 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**



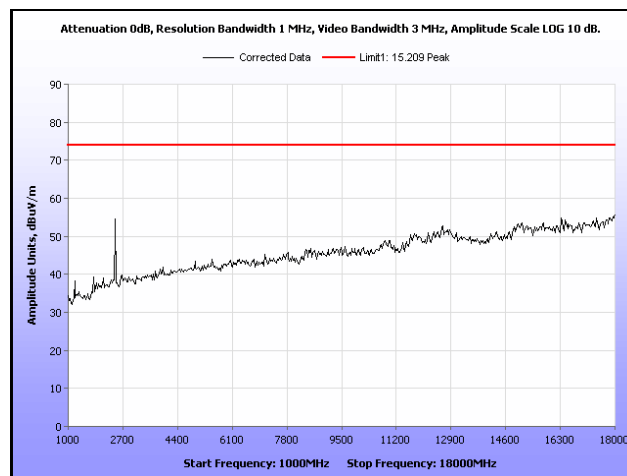
**Plot 176. Radiated Spurious Emissions, Mid Channel, 802.11g 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**



**Plot 177. Radiated Spurious Emissions, High Channel, 802.11g 10 MHz, Omni Antenna, 30 MHz – 1 GHz**

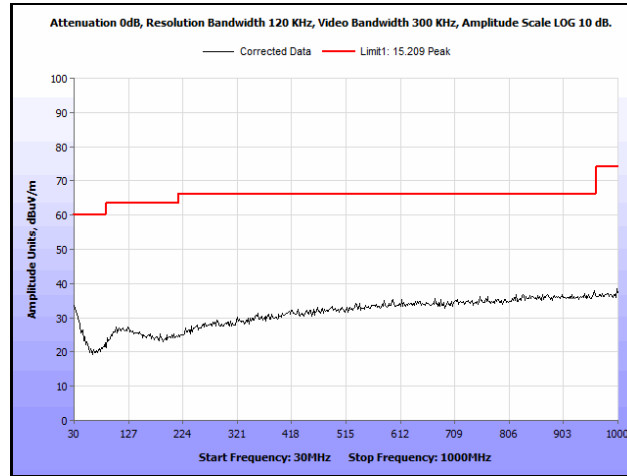


**Plot 178. Radiated Spurious Emissions, High Channel, 802.11g 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**

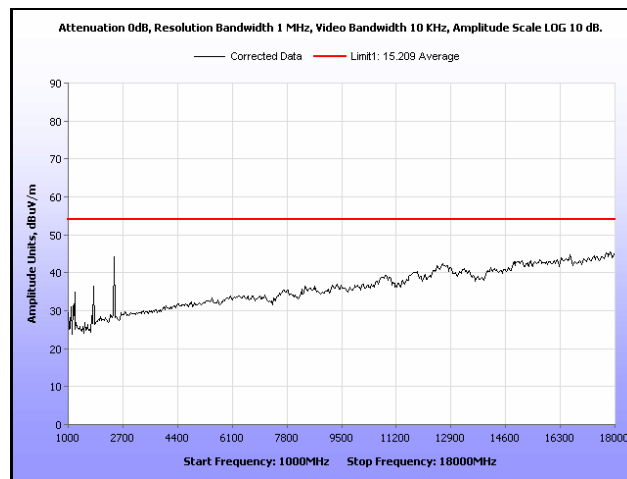


**Plot 179. Radiated Spurious Emissions, High Channel, 802.11g 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**

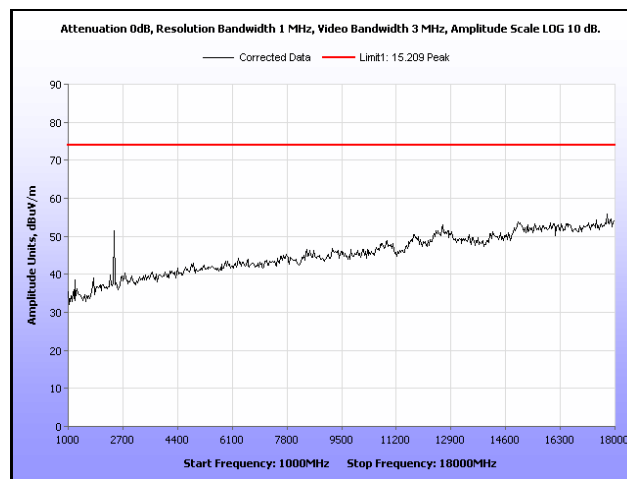
**Radiated Spurious Emissions Test Results, 802.11n 10 MHz, Omni Antenna**



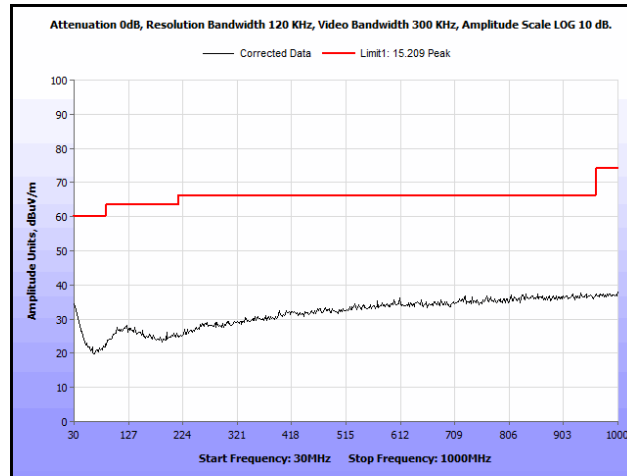
**Plot 180. Radiated Spurious Emissions, Low Channel, 802.11n 10 MHz, Omni Antenna, 30 MHz – 1 GHz**



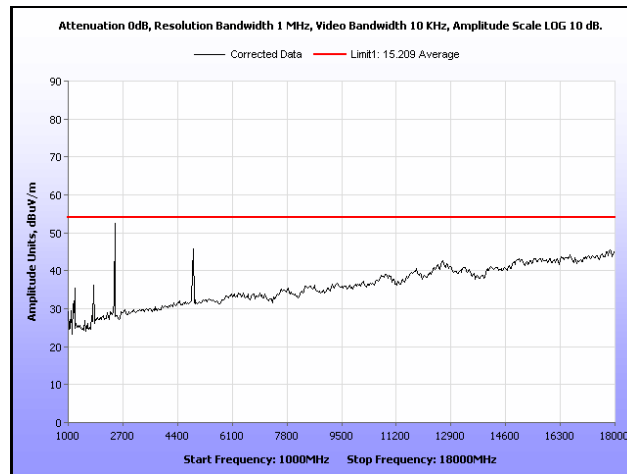
**Plot 181. Radiated Spurious Emissions, Low Channel, 802.11n 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**



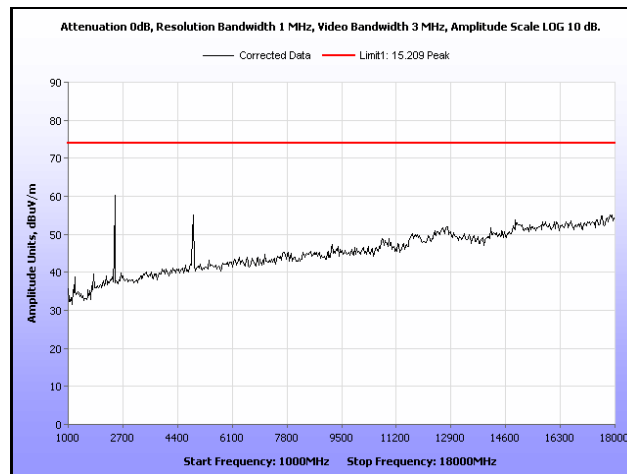
**Plot 182. Radiated Spurious Emissions, Low Channel, 802.11n 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**



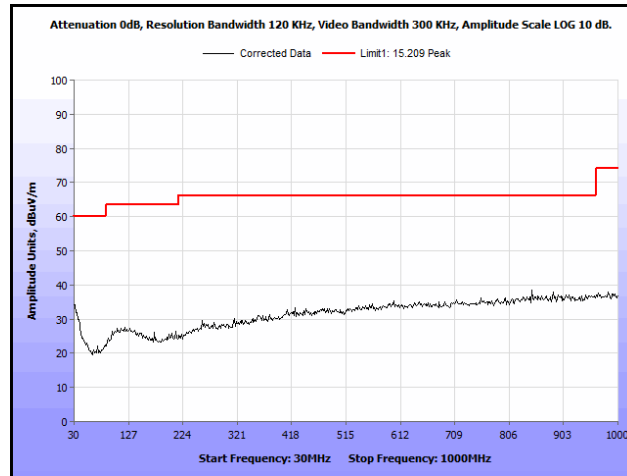
**Plot 183. Radiated Spurious Emissions, Mid Channel, 802.11n 10 MHz, Omni Antenna, 30 MHz – 1 GHz**



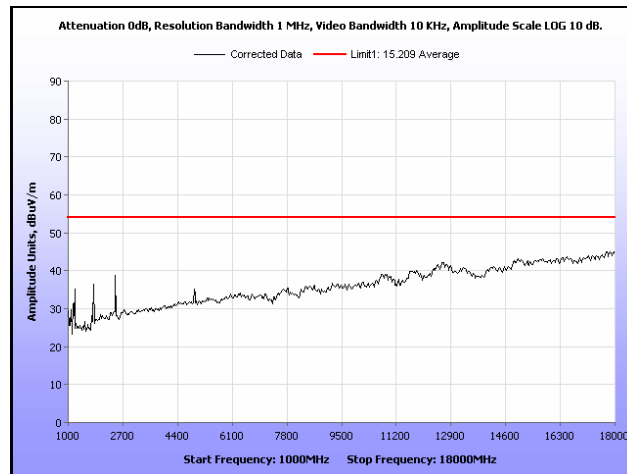
**Plot 184. Radiated Spurious Emissions, Mid Channel, 802.11n 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**



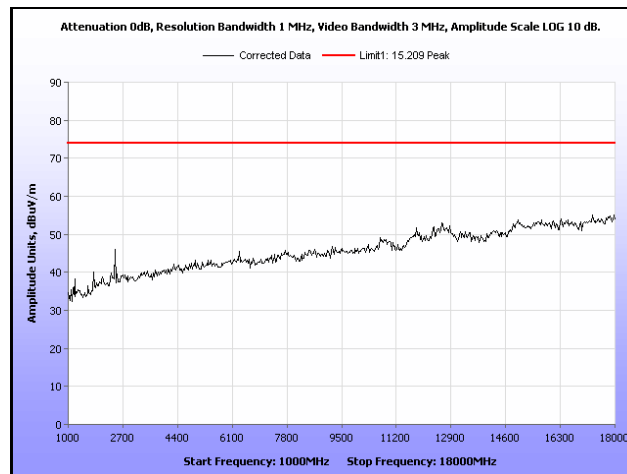
**Plot 185. Radiated Spurious Emissions, Mid Channel, 802.11n 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**



**Plot 186. Radiated Spurious Emissions, High Channel, 802.11n 10 MHz, Omni Antenna, 30 MHz – 1 GHz**

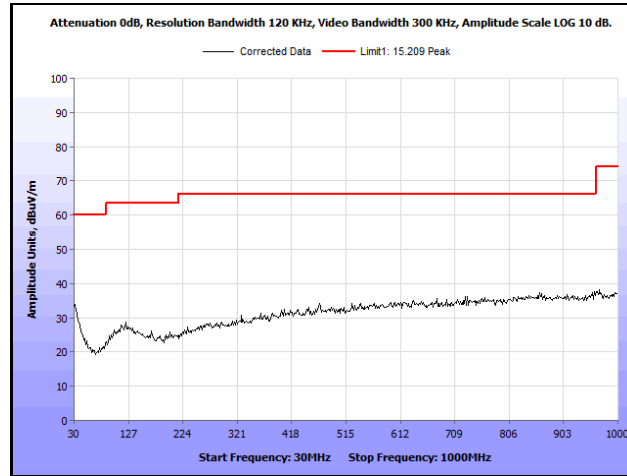


**Plot 187. Radiated Spurious Emissions, High Channel, 802.11n 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**

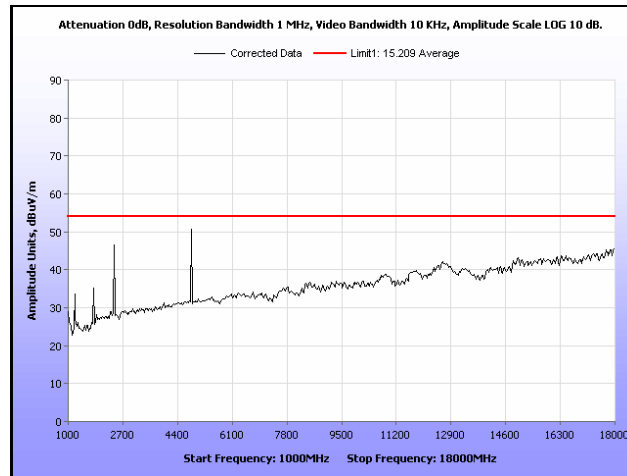


**Plot 188. Radiated Spurious Emissions, High Channel, 802.11n 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**

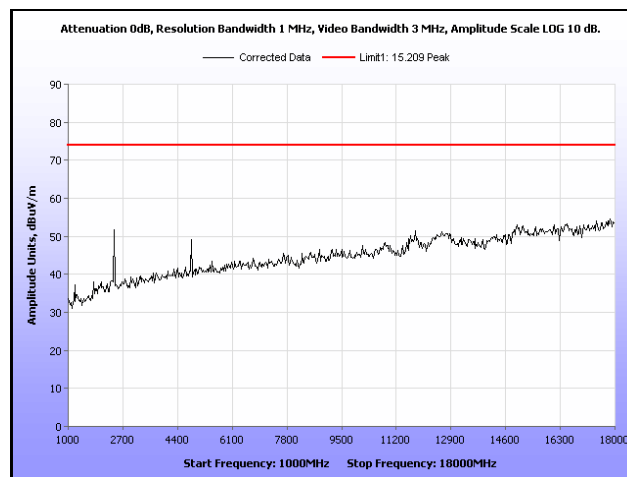
**Radiated Spurious Emissions Test Results, 802.11b 20 MHz, Omni Antenna**



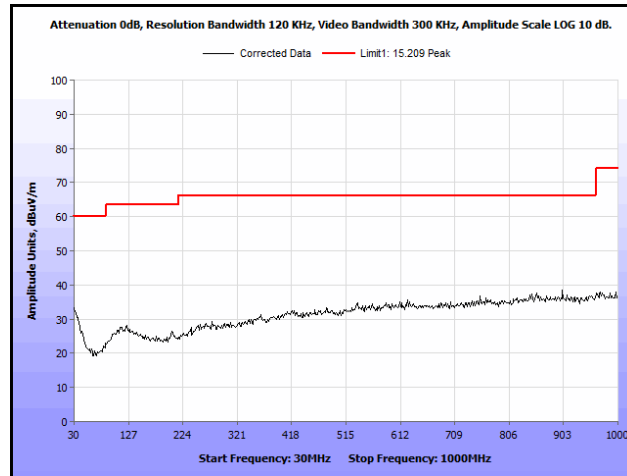
**Plot 189. Radiated Spurious Emissions, Low Channel, 802.11b 20 MHz, Omni Antenna, 30 MHz – 1 GHz**



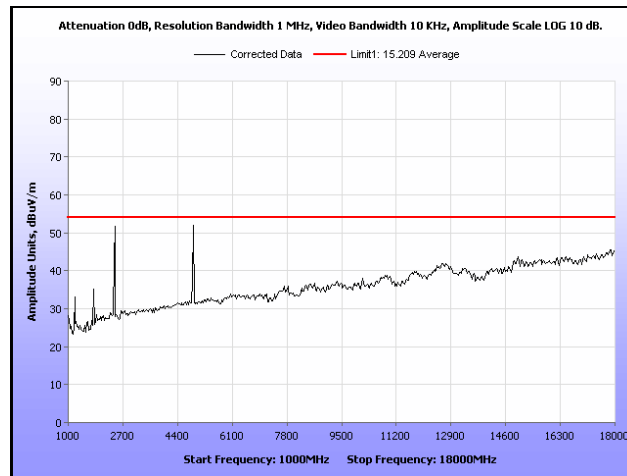
**Plot 190. Radiated Spurious Emissions, Low Channel, 802.11b 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**



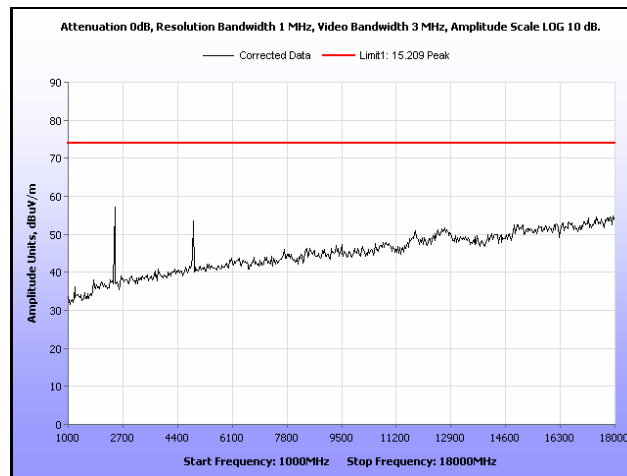
**Plot 191. Radiated Spurious Emissions, Low Channel, 802.11b 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**



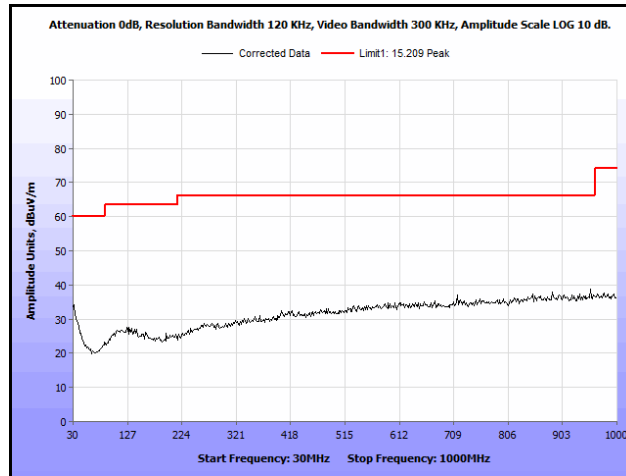
**Plot 192. Radiated Spurious Emissions, Mid Channel, 802.11b 20 MHz, Omni Antenna, 30 MHz – 1 GHz**



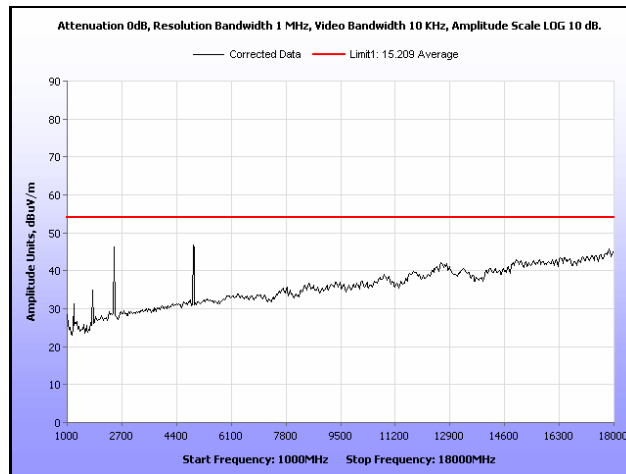
**Plot 193. Radiated Spurious Emissions, Mid Channel, 802.11b 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**



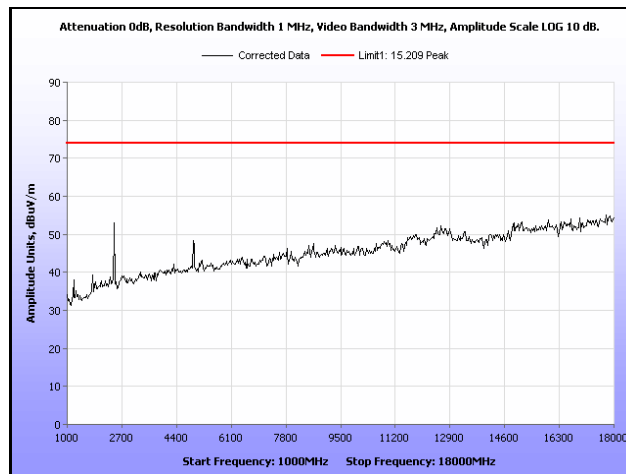
**Plot 194. Radiated Spurious Emissions, Mid Channel, 802.11b 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**



**Plot 195. Radiated Spurious Emissions, High Channel, 802.11b 20 MHz, Omni Antenna, 30 MHz – 1 GHz**



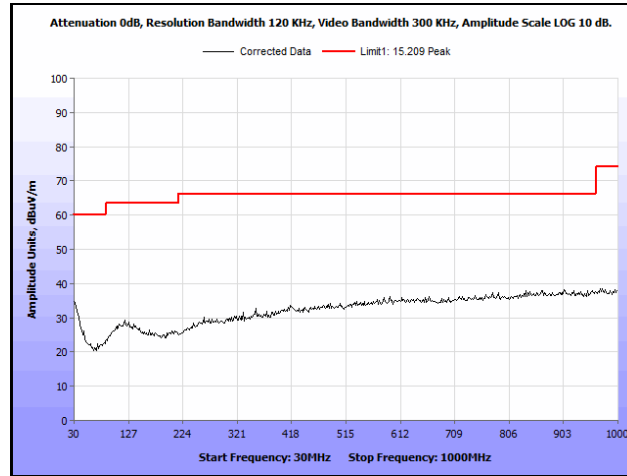
**Plot 196. Radiated Spurious Emissions, High Channel, 802.11b 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**



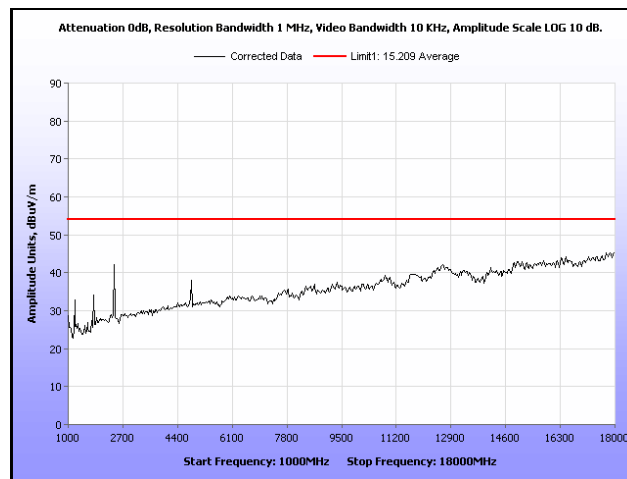
**Plot 197. Radiated Spurious Emissions, High Channel, 802.11b 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**



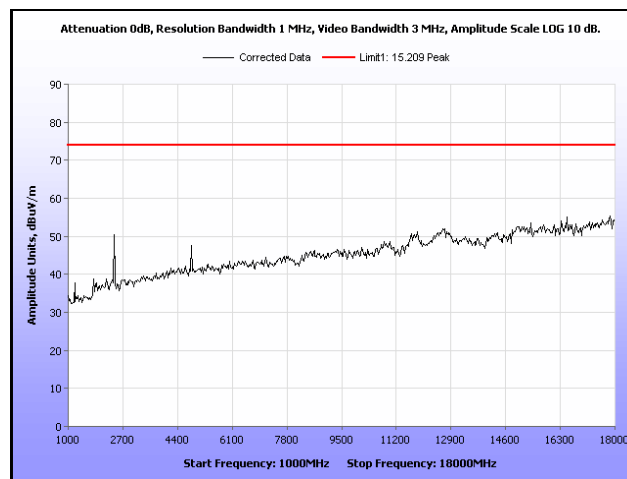
**Radiated Spurious Emissions Test Results, 802.11g 20 MHz, Omni Antenna**



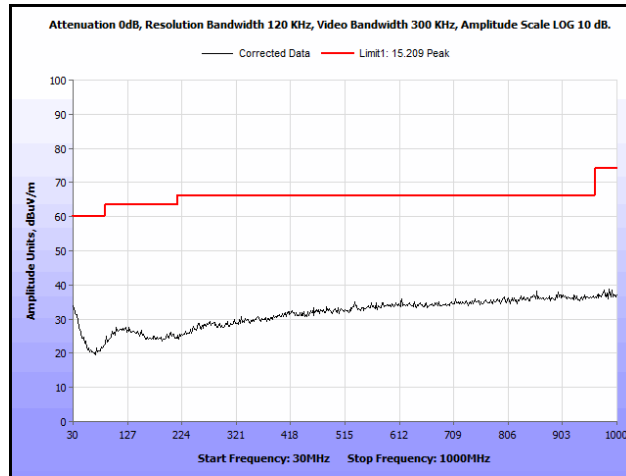
**Plot 198. Radiated Spurious Emissions, Low Channel, 802.11g 20 MHz, Omni Antenna, 30 MHz – 1 GHz**



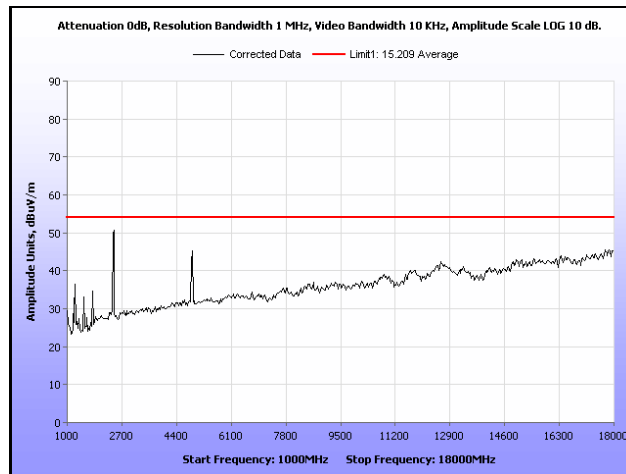
**Plot 199. Radiated Spurious Emissions, Low Channel, 802.11g 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**



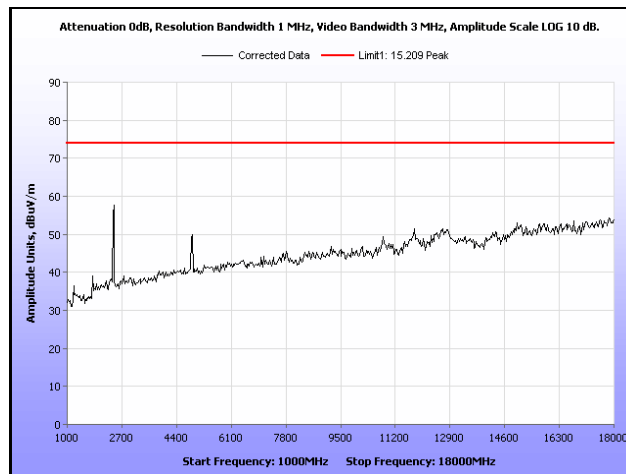
**Plot 200. Radiated Spurious Emissions, Low Channel, 802.11g 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**



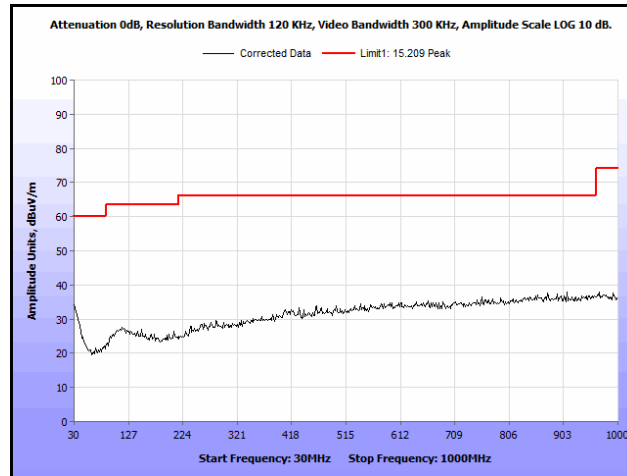
**Plot 201. Radiated Spurious Emissions, Mid Channel, 802.11g 20 MHz, Omni Antenna, 30 MHz – 1 GHz**



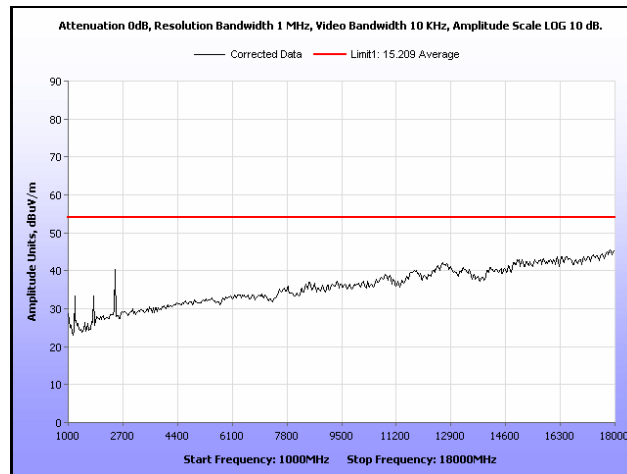
**Plot 202. Radiated Spurious Emissions, Mid Channel, 802.11g 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**



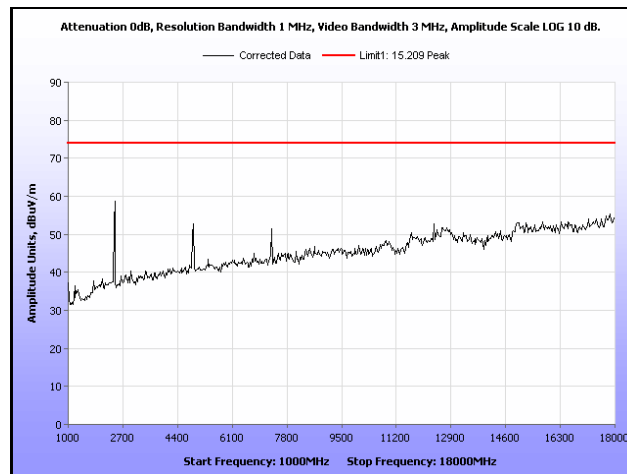
**Plot 203. Radiated Spurious Emissions, Mid Channel, 802.11g 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**



**Plot 204. Radiated Spurious Emissions, High Channel, 802.11g 20 MHz, Omni Antenna, 30 MHz – 1 GHz**

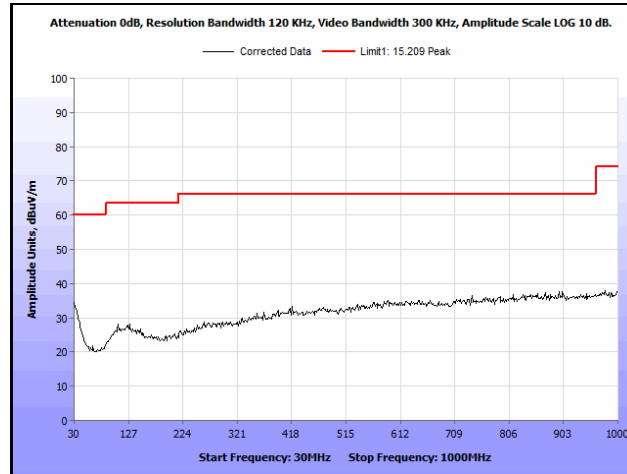


**Plot 205. Radiated Spurious Emissions, High Channel, 802.11g 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**

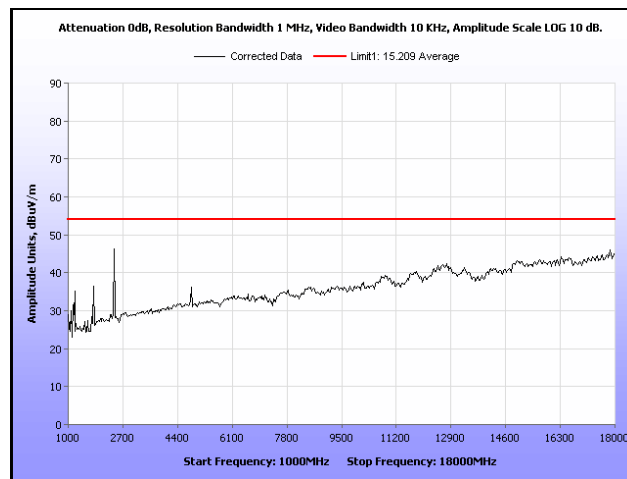


**Plot 206. Radiated Spurious Emissions, High Channel, 802.11g 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**

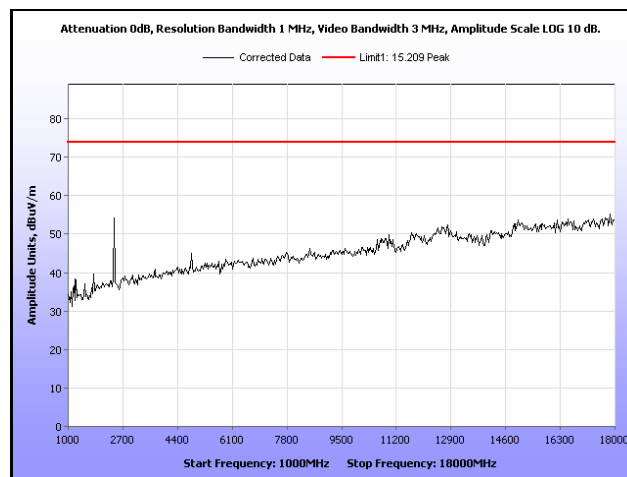
## Radiated Spurious Emissions Test Results, 802.11n 20 MHz, Omni Antenna



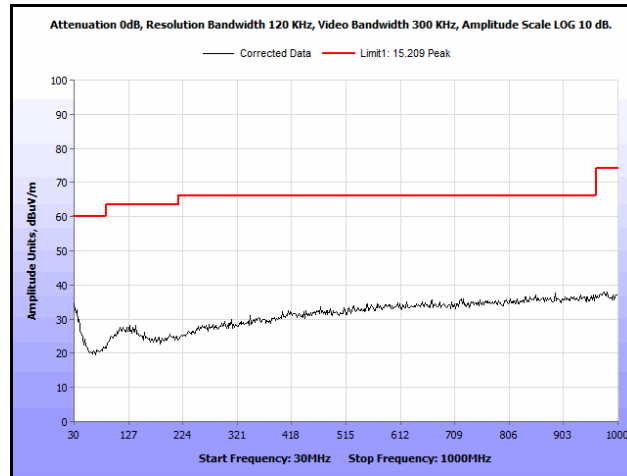
Plot 207. Radiated Spurious Emissions, Low Channel, 802.11n 20 MHz, Omni Antenna, 30 MHz – 1 GHz



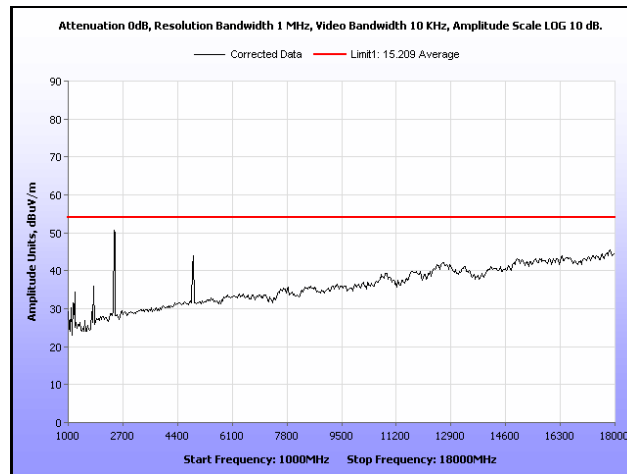
Plot 208. Radiated Spurious Emissions, Low Channel, 802.11n 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Average



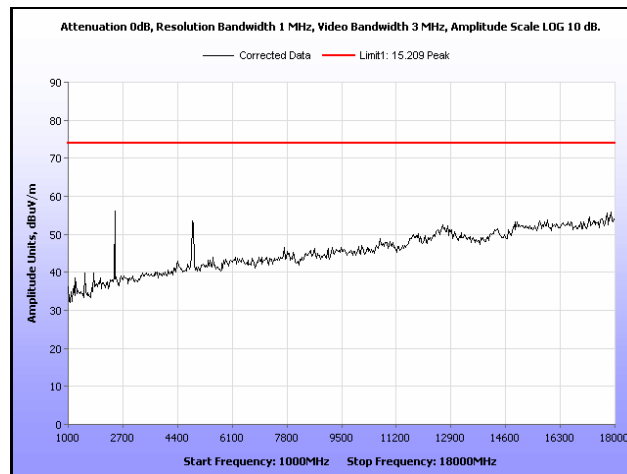
Plot 209. Radiated Spurious Emissions, Low Channel, 802.11n 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak



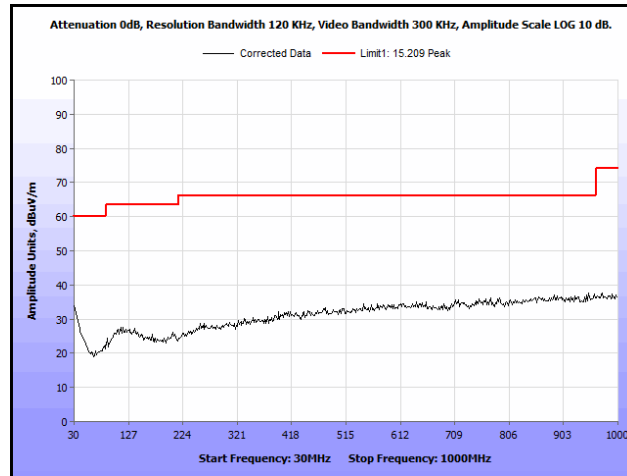
**Plot 210. Radiated Spurious Emissions, Mid Channel, 802.11n 20 MHz, Omni Antenna, 30 MHz – 1 GHz**



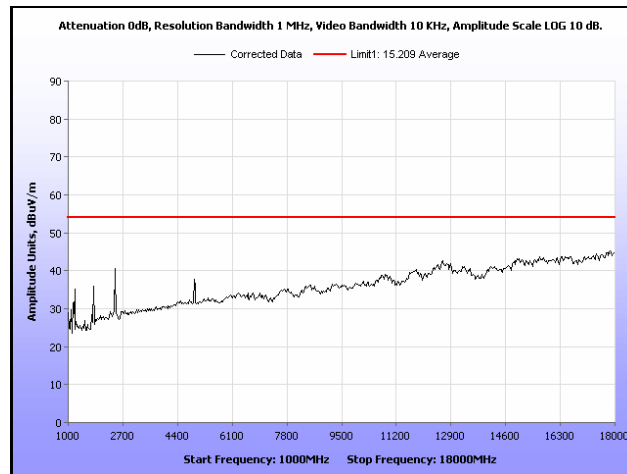
**Plot 211. Radiated Spurious Emissions, Mid Channel, 802.11n 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**



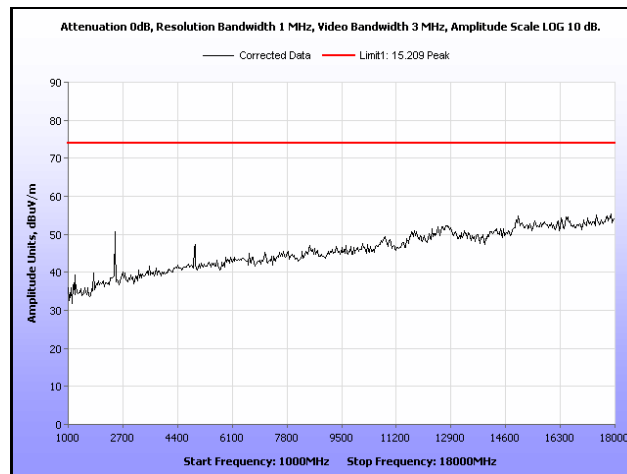
**Plot 212. Radiated Spurious Emissions, Mid Channel, 802.11n 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**



**Plot 213. Radiated Spurious Emissions, High Channel, 802.11n 20 MHz, Omni Antenna, 30 MHz – 1 GHz**

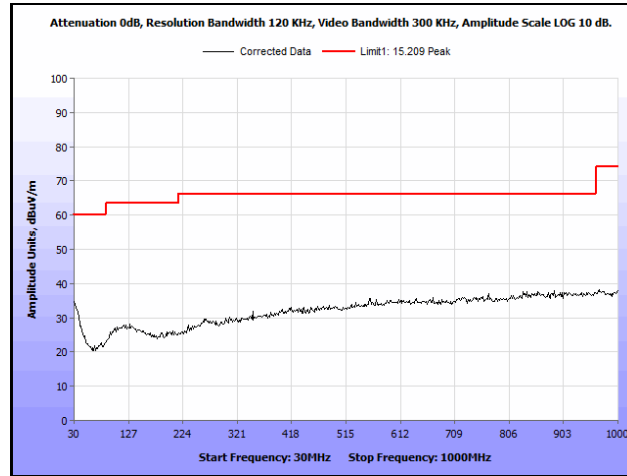


**Plot 214. Radiated Spurious Emissions, High Channel, 802.11n 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**

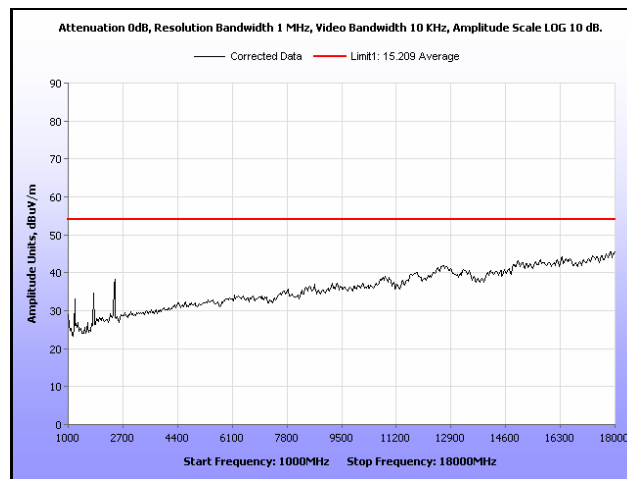


**Plot 215. Radiated Spurious Emissions, High Channel, 802.11n 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**

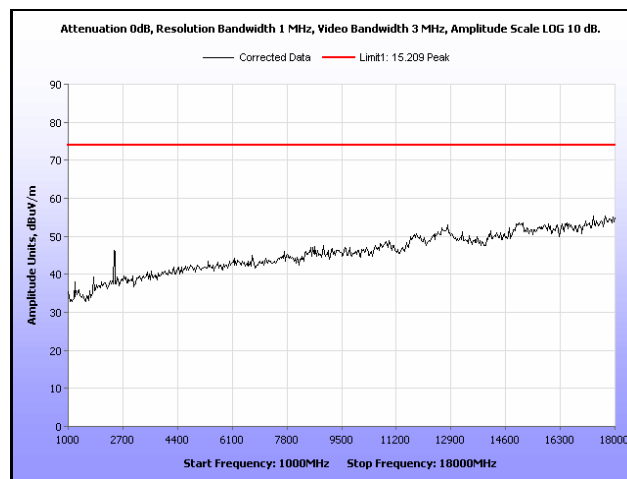
**Radiated Spurious Emissions Test Results, 802.11g 40 MHz, Omni Antenna**



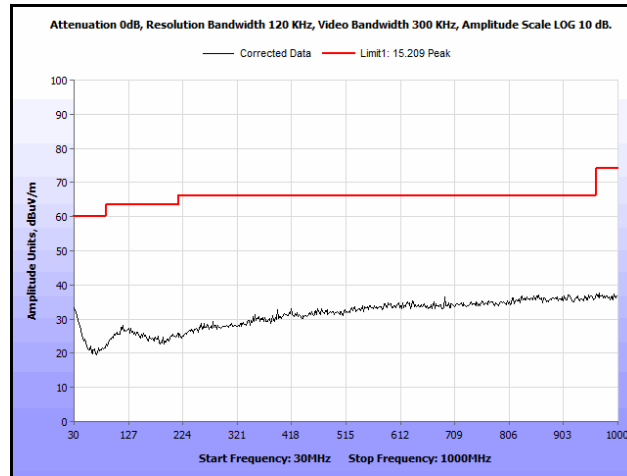
**Plot 216. Radiated Spurious Emissions, Low Channel, 802.11g 40 MHz, Omni Antenna, 30 MHz – 1 GHz**



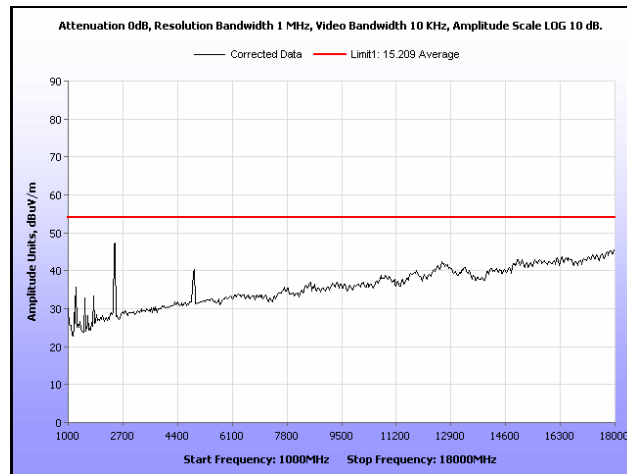
**Plot 217. Radiated Spurious Emissions, Low Channel, 802.11g 40 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**



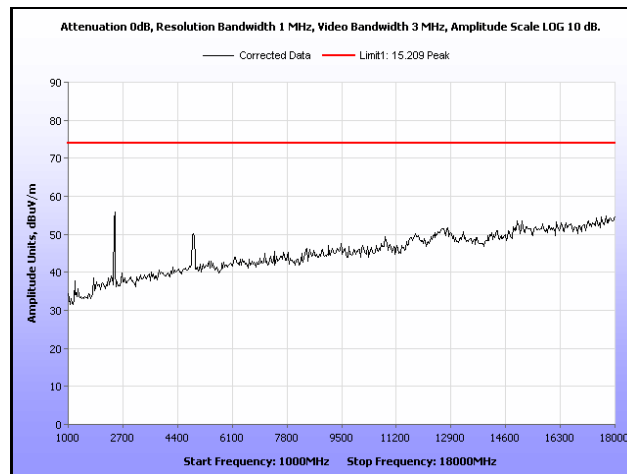
**Plot 218. Radiated Spurious Emissions, Low Channel, 802.11g 40 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**



**Plot 219. Radiated Spurious Emissions, Mid Channel, 802.11g 40 MHz, Omni Antenna, 30 MHz – 1 GHz**

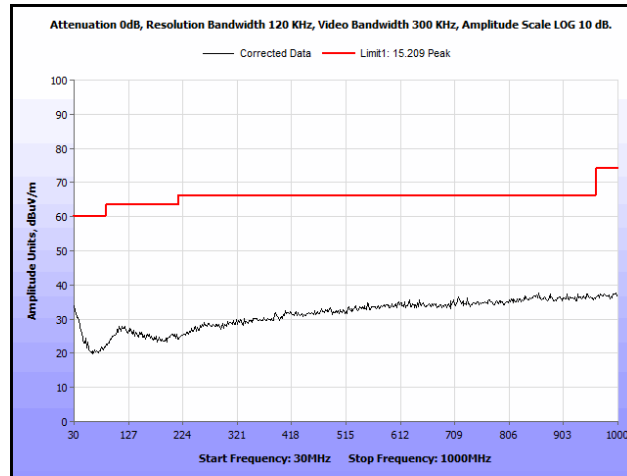


**Plot 220. Radiated Spurious Emissions, Mid Channel, 802.11g 40 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**

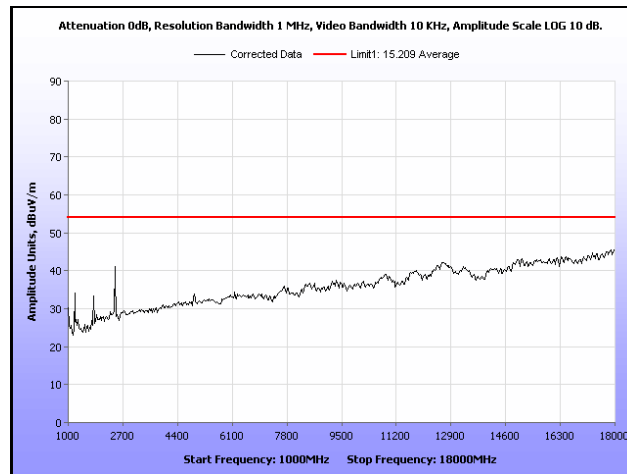


**Plot 221. Radiated Spurious Emissions, Mid Channel, 802.11g 40 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**

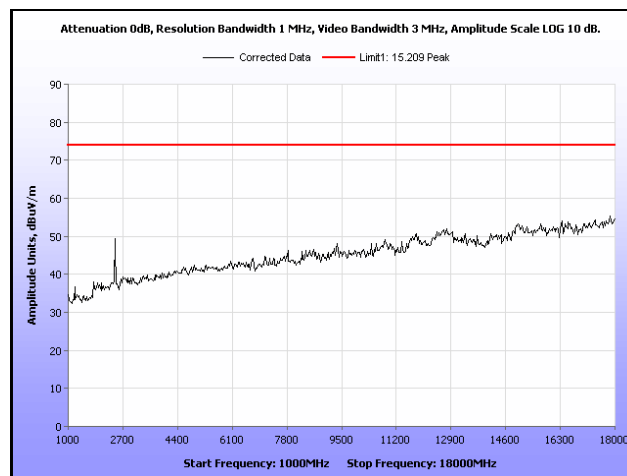




**Plot 222. Radiated Spurious Emissions, High Channel, 802.11g 40 MHz, Omni Antenna, 30 MHz – 1 GHz**

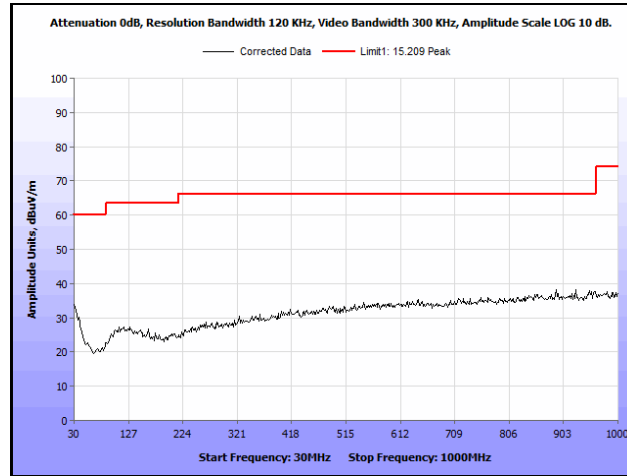


**Plot 223. Radiated Spurious Emissions, High Channel, 802.11g 40 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**

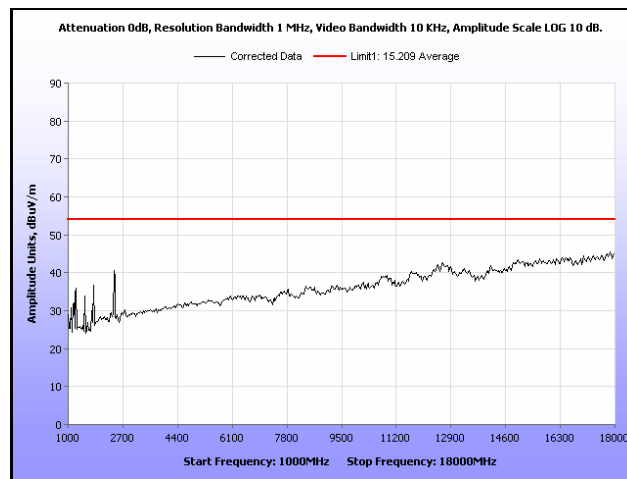


**Plot 224. Radiated Spurious Emissions, High Channel, 802.11g 40 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**

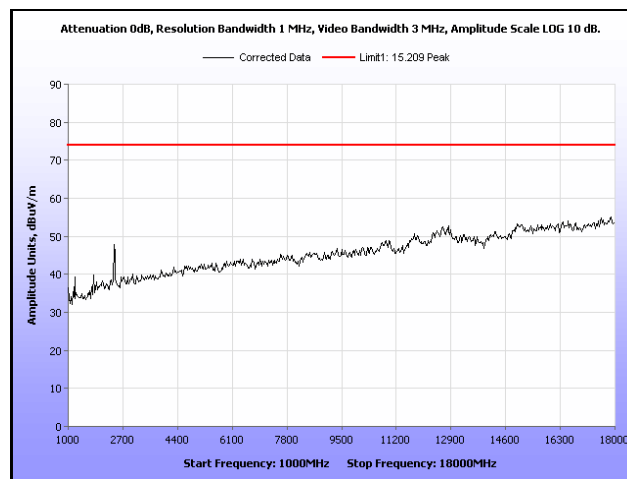
**Radiated Spurious Emissions Test Results, 802.11n 40 MHz, Omni Antenna**



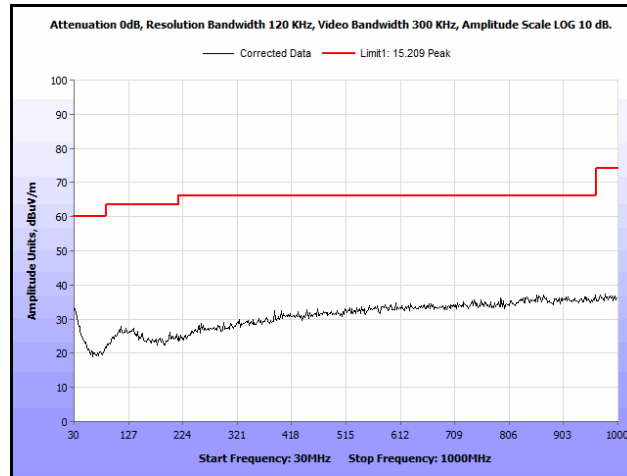
**Plot 225. Radiated Spurious Emissions, Low Channel, 802.11n 40 MHz, Omni Antenna, 30 MHz – 1 GHz**



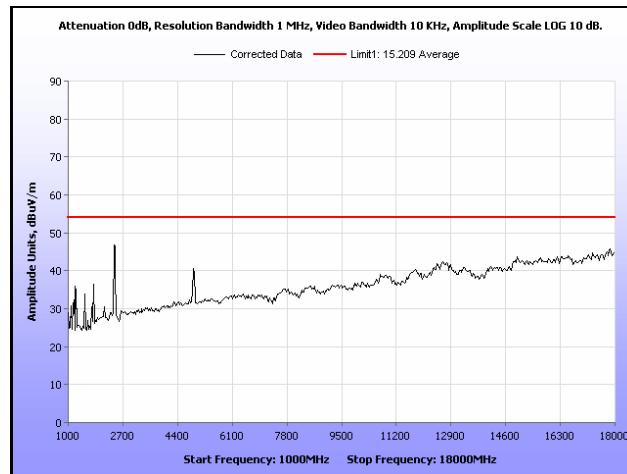
**Plot 226. Radiated Spurious Emissions, Low Channel, 802.11n 40 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**



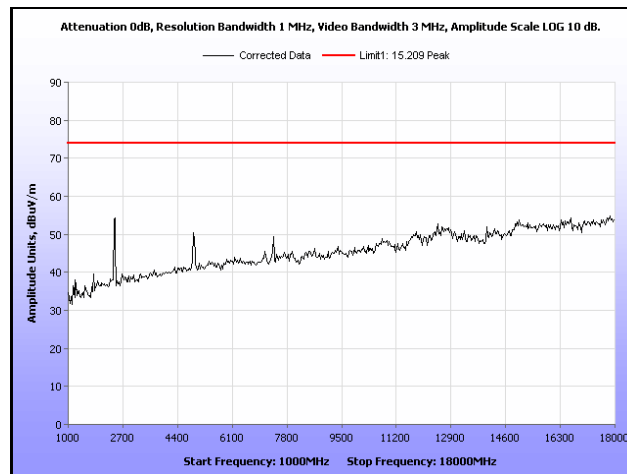
**Plot 227. Radiated Spurious Emissions, Low Channel, 802.11n 40 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**



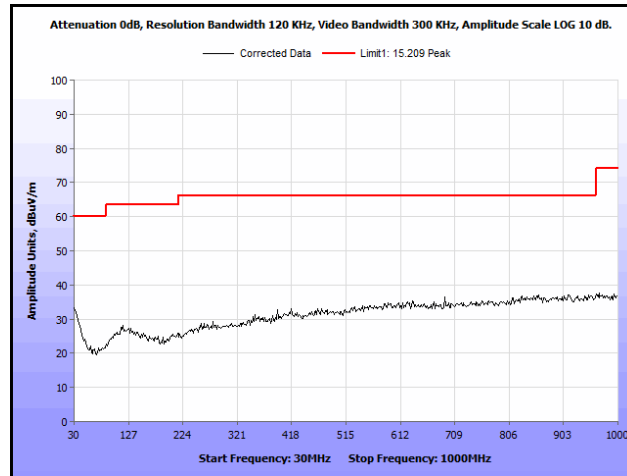
**Plot 228. Radiated Spurious Emissions, Mid Channel, 802.11n 40 MHz, Omni Antenna, 30 MHz – 1 GHz**



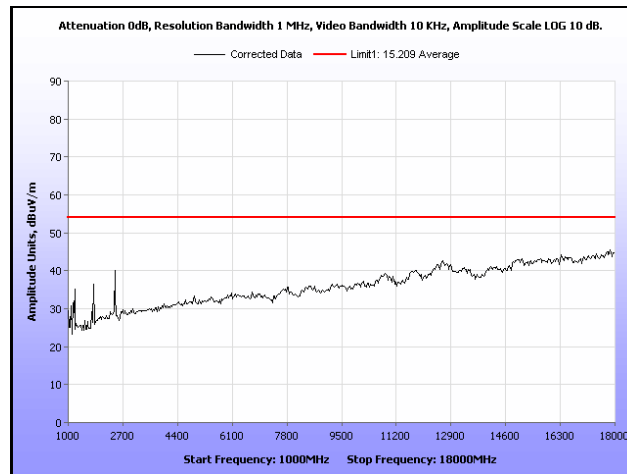
**Plot 229. Radiated Spurious Emissions, Mid Channel, 802.11n 40 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**



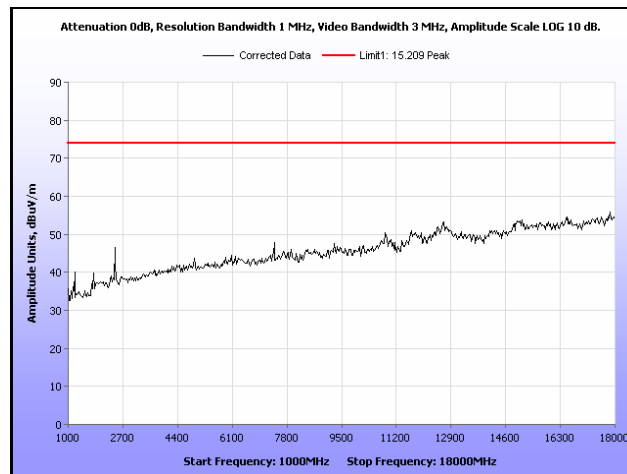
**Plot 230. Radiated Spurious Emissions, Mid Channel, 802.11n 40 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**



**Plot 231. Radiated Spurious Emissions, High Channel, 802.11n 40 MHz, Omni Antenna, 30 MHz – 1 GHz**

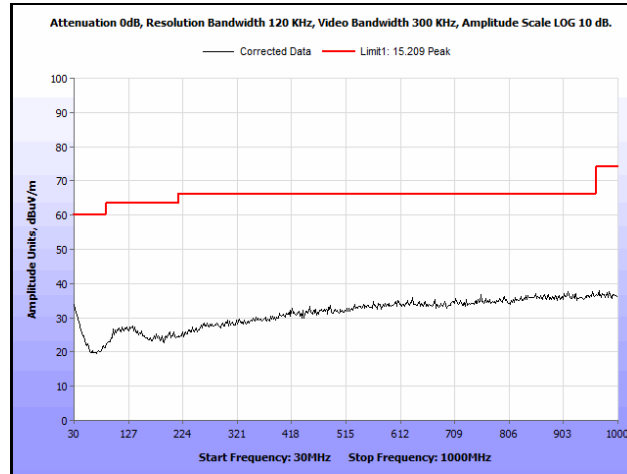


**Plot 232. Radiated Spurious Emissions, High Channel, 802.11n 40 MHz, Omni Antenna, 1 GHz – 18 GHz, Average**

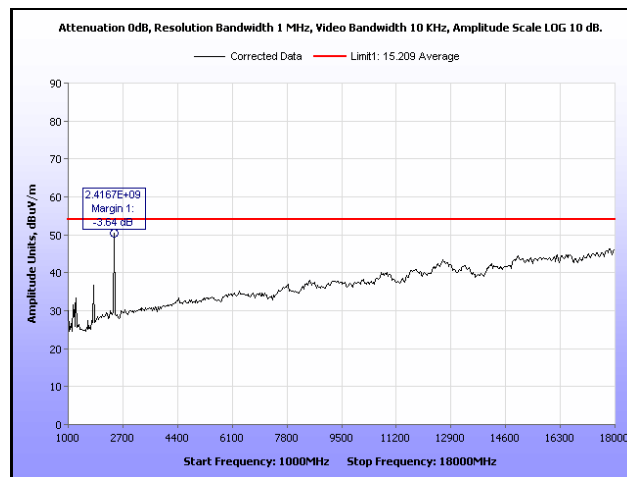


**Plot 233. Radiated Spurious Emissions, High Channel, 802.11n 40 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak**

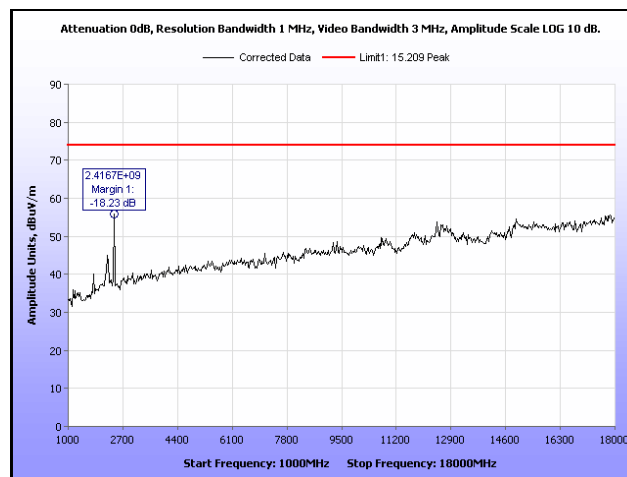
### Radiated Spurious Emissions Test Results, 802.11b 5 MHz, Parabolic Antenna



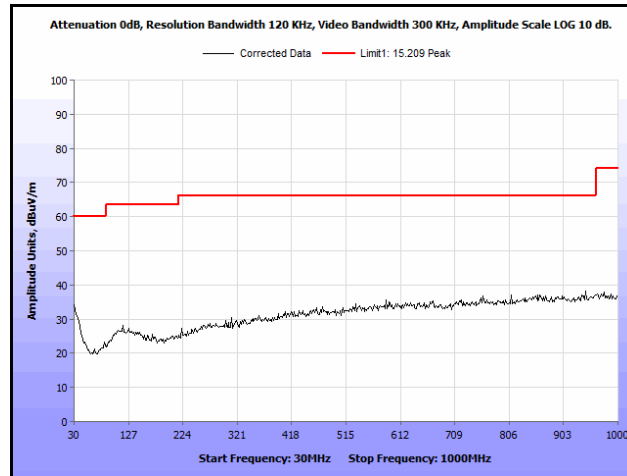
Plot 234. Radiated Spurious Emissions, Low Channel, 802.11b 5 MHz, Parabolic Antenna, 30 MHz – 1 GHz



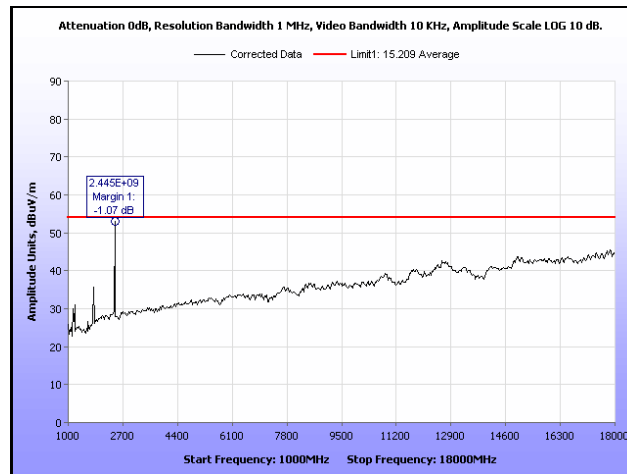
Plot 235. Radiated Spurious Emissions, Low Channel, 802.11b 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



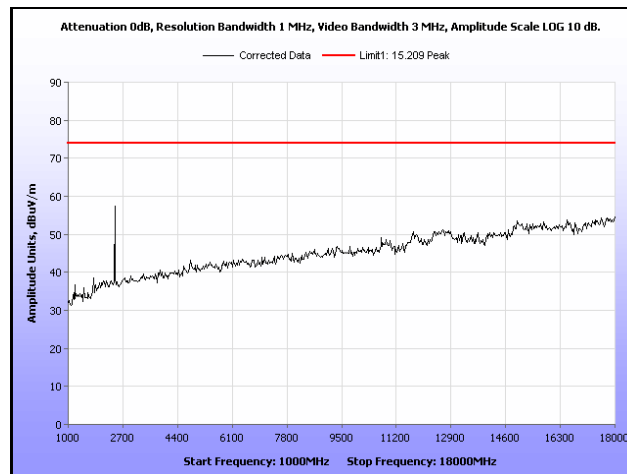
Plot 236. Radiated Spurious Emissions, Low Channel, 802.11b 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



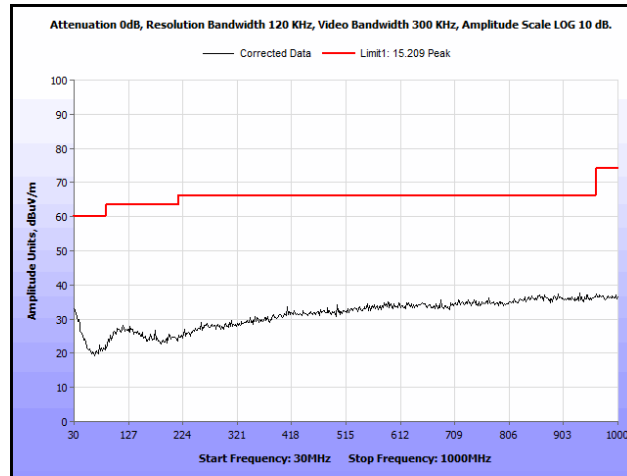
**Plot 237. Radiated Spurious Emissions, Mid Channel, 802.11b 5 MHz, Parabolic Antenna, 30 MHz – 1 GHz**



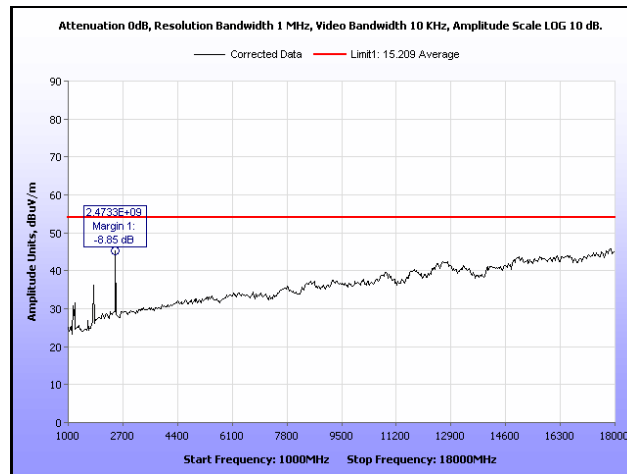
**Plot 238. Radiated Spurious Emissions, Mid Channel, 802.11b 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average**



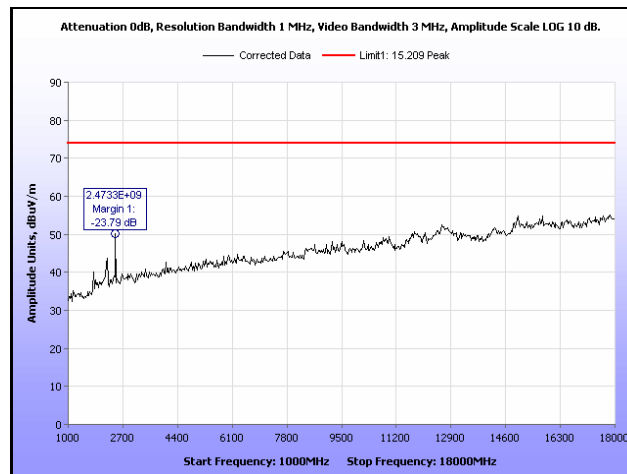
**Plot 239. Radiated Spurious Emissions, Mid Channel, 802.11b 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak**



**Plot 240. Radiated Spurious Emissions, High Channel, 802.11b 5 MHz, Parabolic Antenna, 30 MHz – 1 GHz**

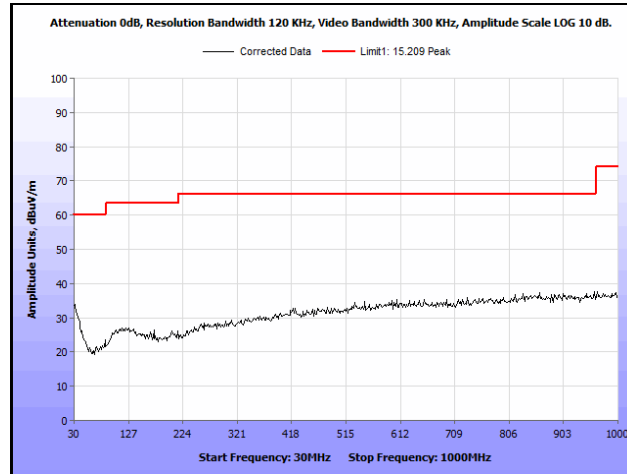


**Plot 241. Radiated Spurious Emissions, High Channel, 802.11b 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average**

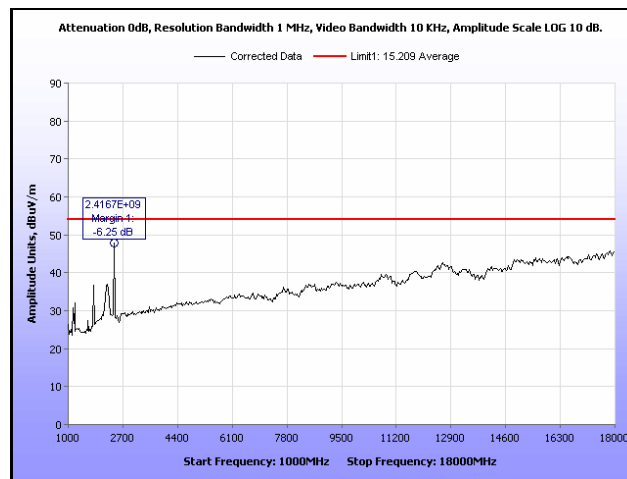


**Plot 242. Radiated Spurious Emissions, High Channel, 802.11b 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak**

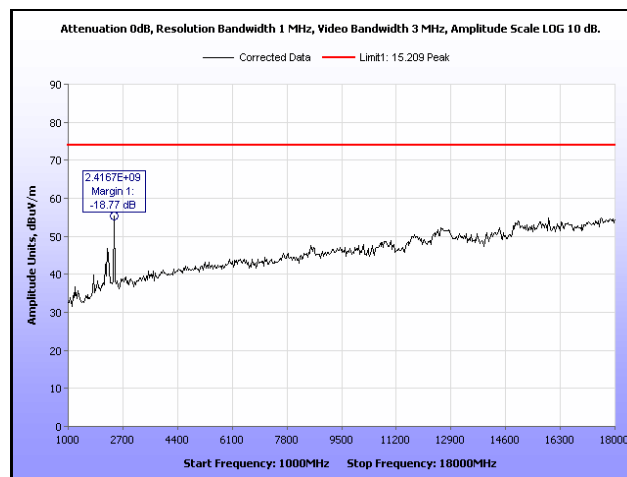
### Radiated Spurious Emissions Test Results, 802.11g 5 MHz, Parabolic Antenna



Plot 243. Radiated Spurious Emissions, Low Channel, 802.11g 5 MHz, Parabolic Antenna, 30 MHz – 1 GHz

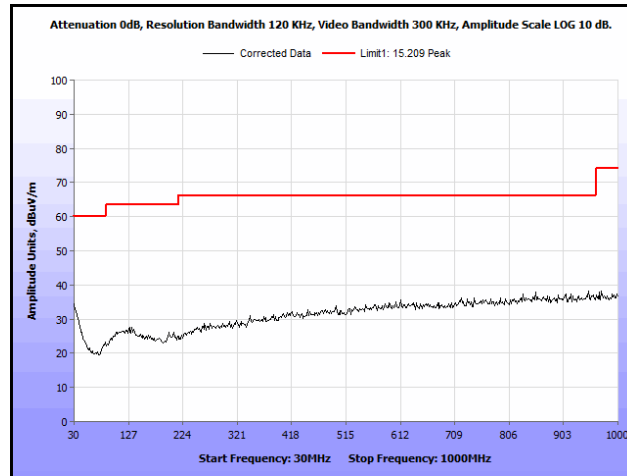


Plot 244. Radiated Spurious Emissions, Low Channel, 802.11g 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average

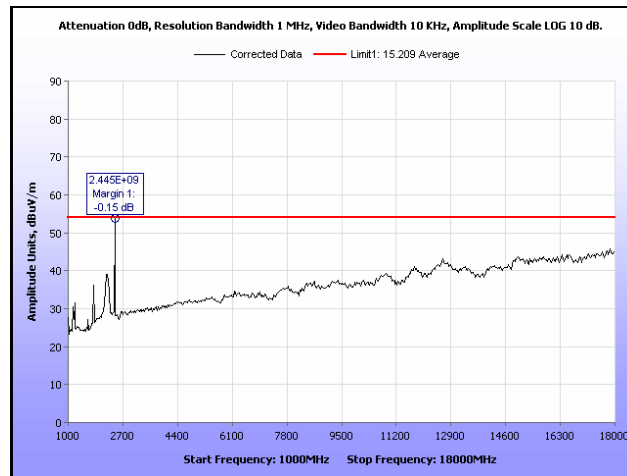


Plot 245. Radiated Spurious Emissions, Low Channel, 802.11g 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak

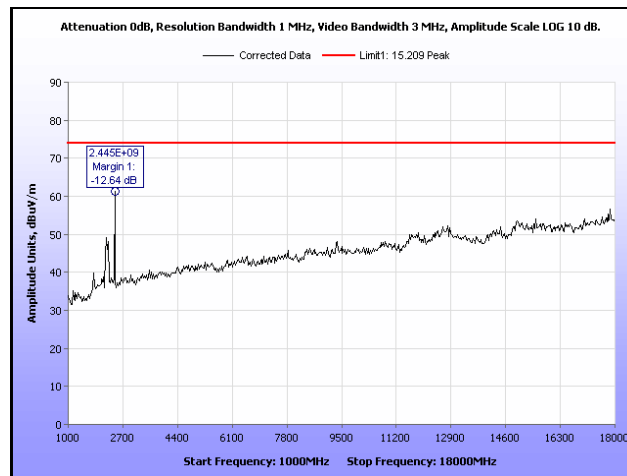




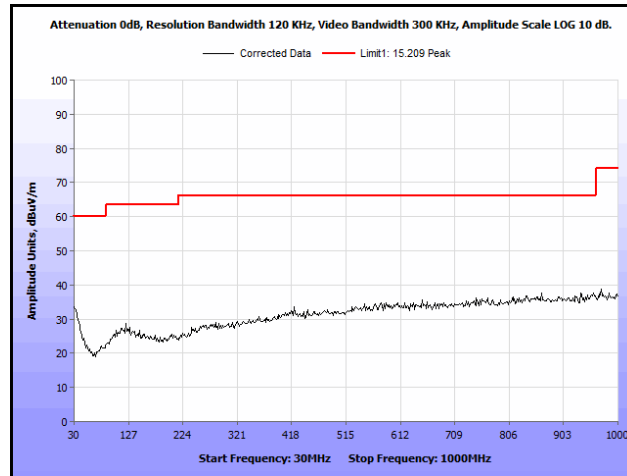
**Plot 246. Radiated Spurious Emissions, Mid Channel, 802.11g 5 MHz, Parabolic Antenna, 30 MHz – 1 GHz**



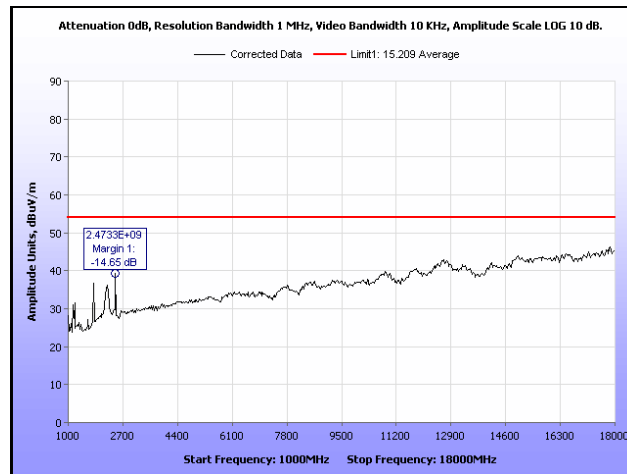
**Plot 247. Radiated Spurious Emissions, Mid Channel, 802.11g 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average**



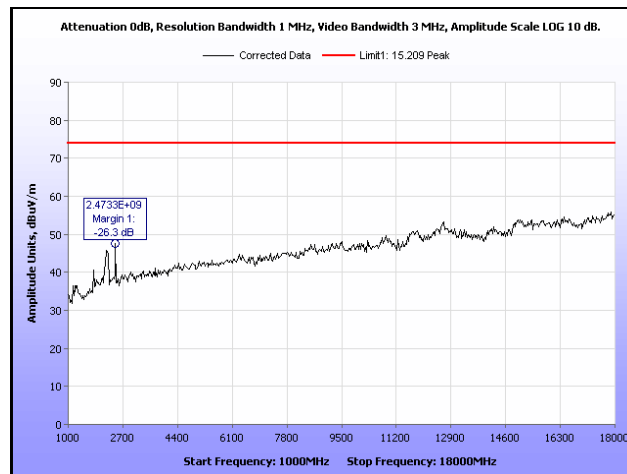
**Plot 248. Radiated Spurious Emissions, Mid Channel, 802.11g 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak**



**Plot 249. Radiated Spurious Emissions, High Channel, 802.11g 5 MHz, Parabolic Antenna, 30 MHz – 1 GHz**

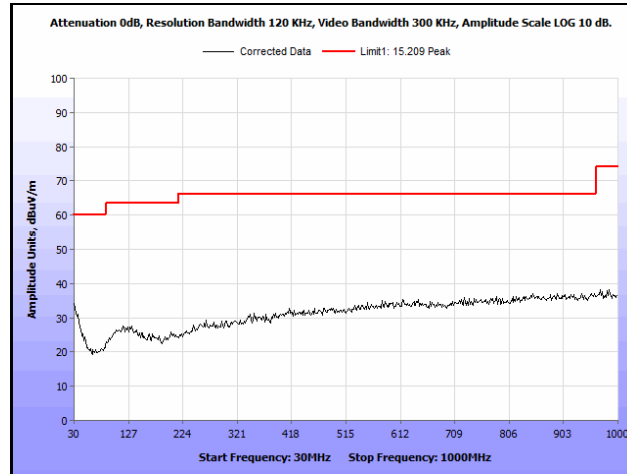


**Plot 250. Radiated Spurious Emissions, High Channel, 802.11g 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average**

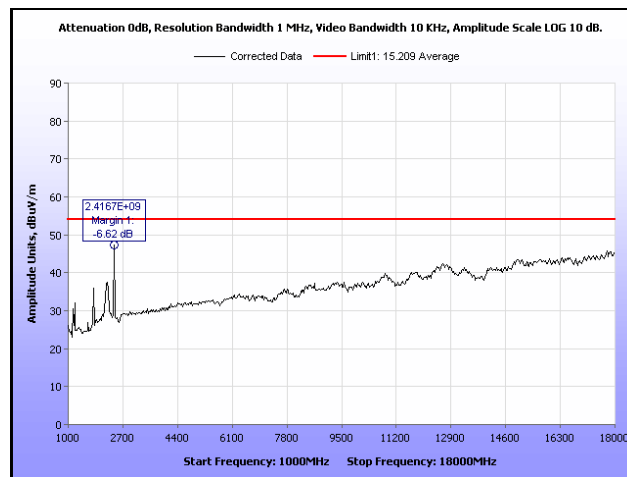


**Plot 251. Radiated Spurious Emissions, High Channel, 802.11g 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak**

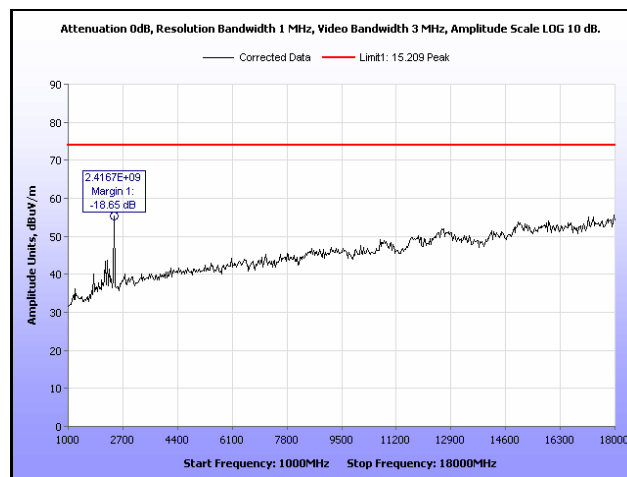
### Radiated Spurious Emissions Test Results, 802.11n 5 MHz, Parabolic Antenna



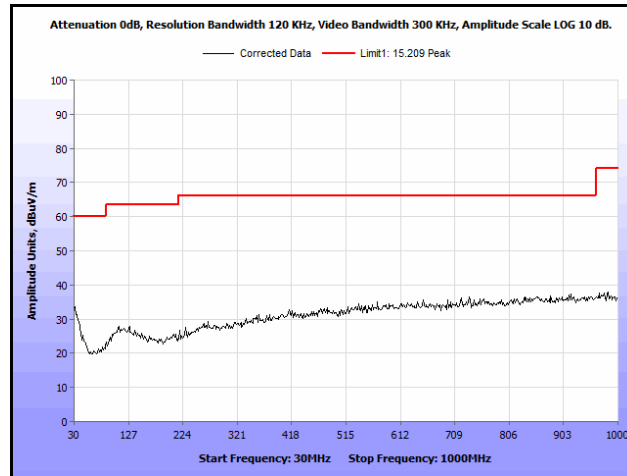
Plot 252. Radiated Spurious Emissions, Low Channel, 802.11n 5 MHz, Parabolic Antenna, 30 MHz – 1 GHz



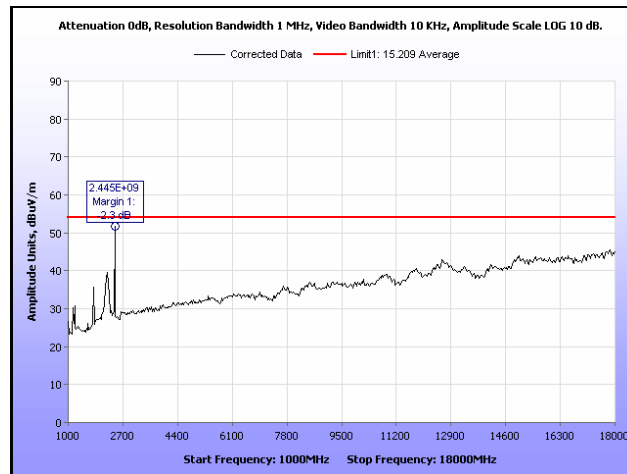
Plot 253. Radiated Spurious Emissions, Low Channel, 802.11n 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



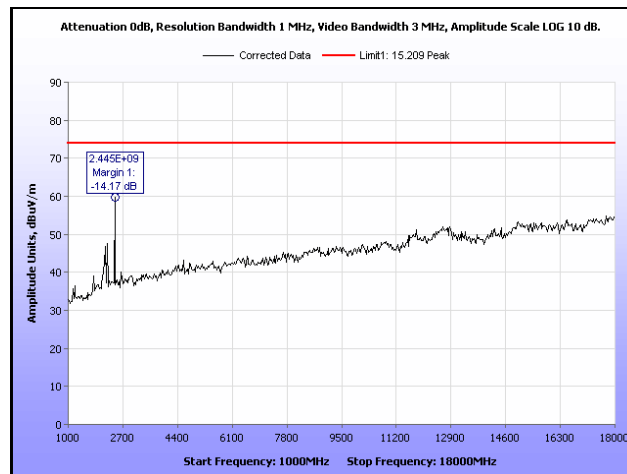
Plot 254. Radiated Spurious Emissions, Low Channel, 802.11n 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



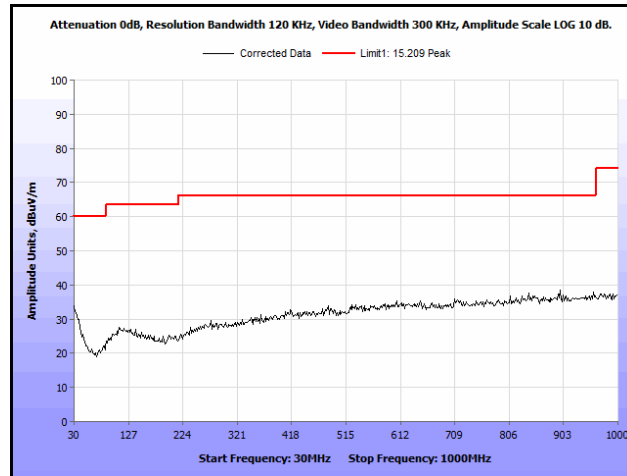
Plot 255. Radiated Spurious Emissions, Mid Channel, 802.11n 5 MHz, Parabolic Antenna, 30 MHz – 1 GHz



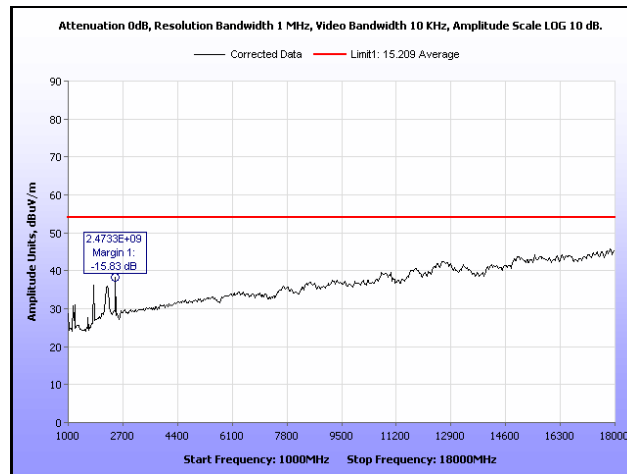
Plot 256. Radiated Spurious Emissions, Mid Channel, 802.11n 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



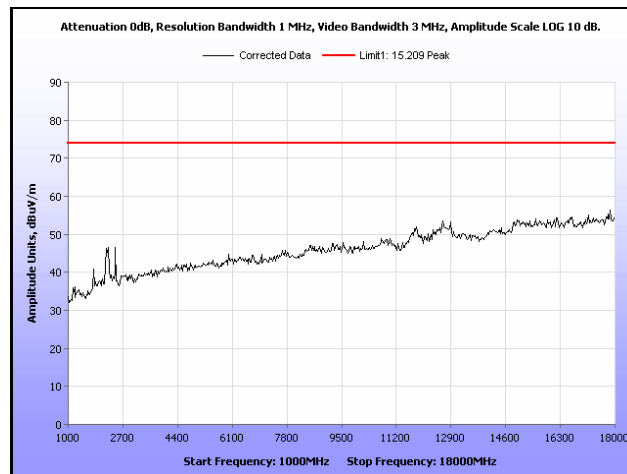
Plot 257. Radiated Spurious Emissions, Mid Channel, 802.11n 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



**Plot 258. Radiated Spurious Emissions, High Channel, 802.11n 5 MHz, Parabolic Antenna, 30 MHz – 1 GHz**

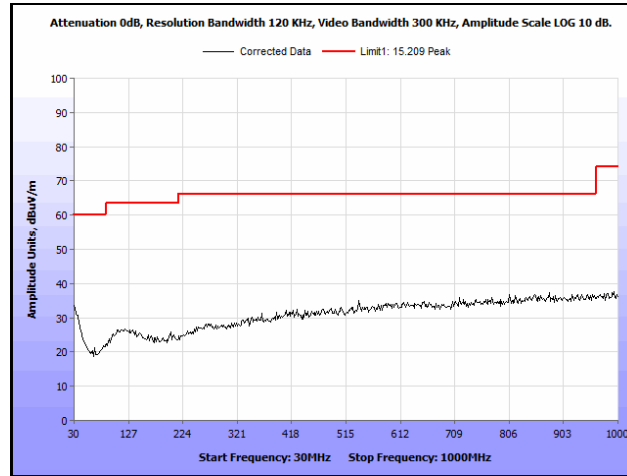


**Plot 259. Radiated Spurious Emissions, High Channel, 802.11n 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average**

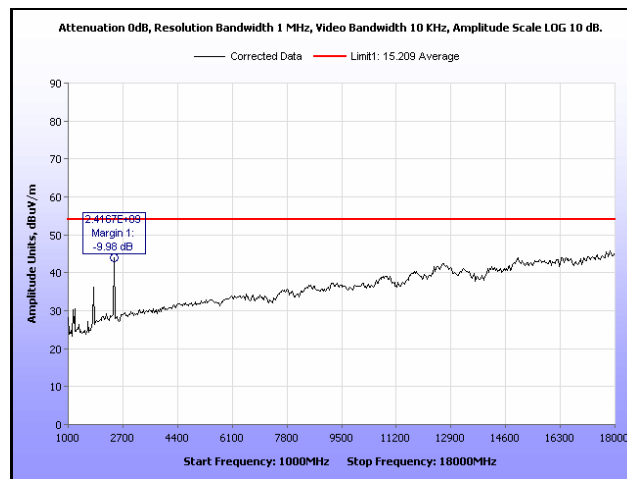


**Plot 260. Radiated Spurious Emissions, High Channel, 802.11n 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak**

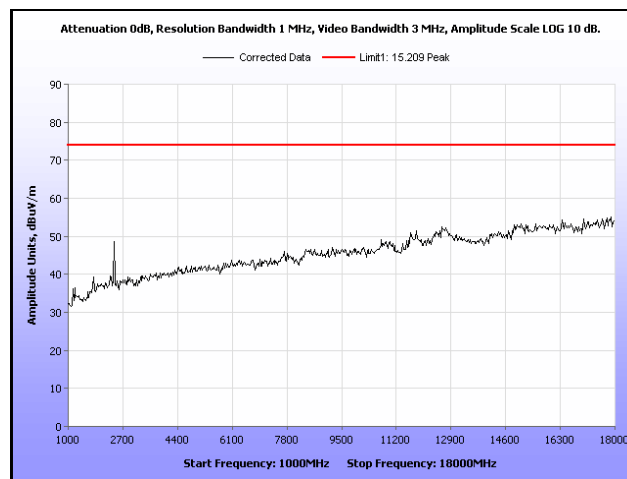
**Radiated Spurious Emissions Test Results, 802.11b 10 MHz, Parabolic Antenna**



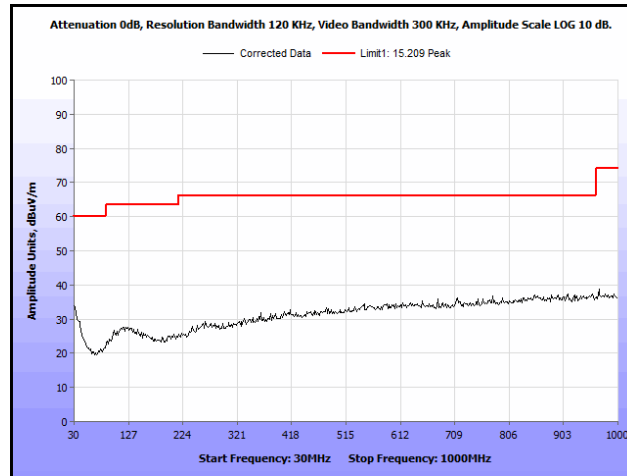
**Plot 261. Radiated Spurious Emissions, Low Channel, 802.11b 10 MHz, Parabolic Antenna, 30 MHz – 1 GHz**



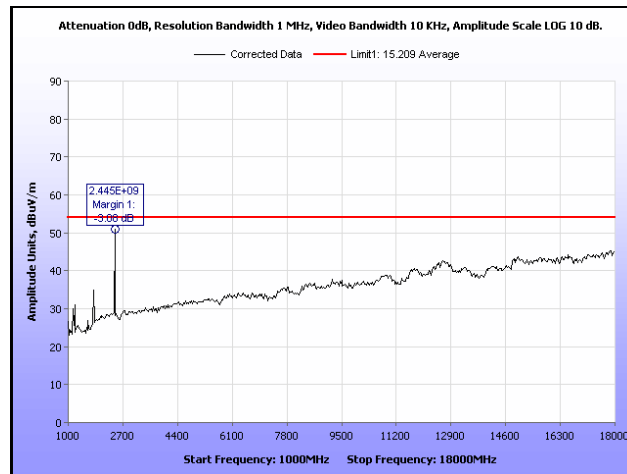
**Plot 262. Radiated Spurious Emissions, Low Channel, 802.11b 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average**



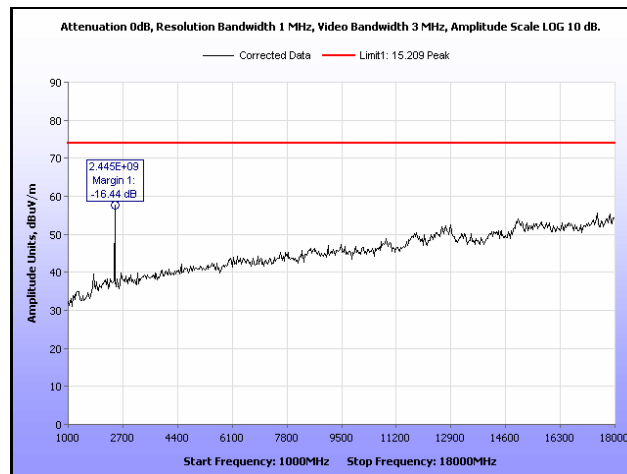
**Plot 263. Radiated Spurious Emissions, Low Channel, 802.11b 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak**



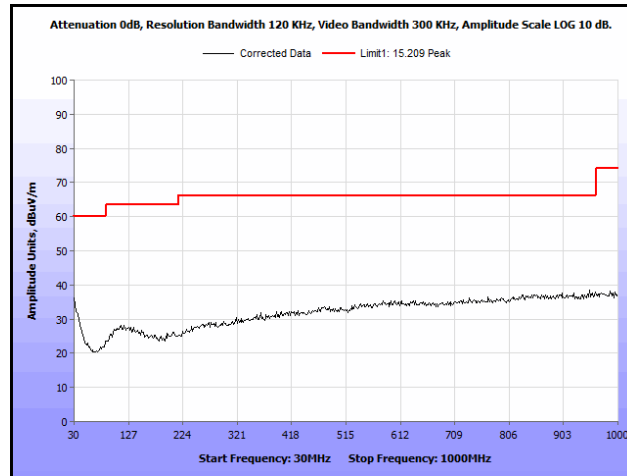
**Plot 264. Radiated Spurious Emissions, Mid Channel, 802.11b 10 MHz, Parabolic Antenna, 30 MHz – 1 GHz**



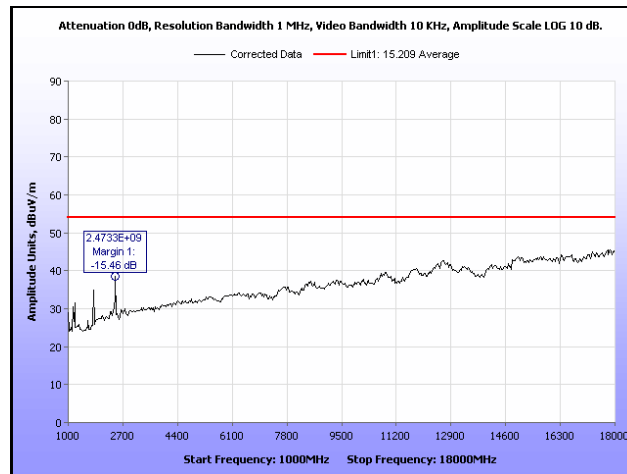
**Plot 265. Radiated Spurious Emissions, Mid Channel, 802.11b 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average**



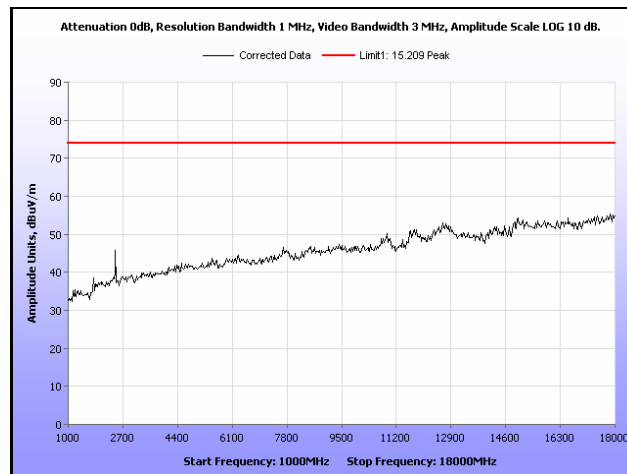
**Plot 266. Radiated Spurious Emissions, Mid Channel, 802.11b 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak**



Plot 267. Radiated Spurious Emissions, High Channel, 802.11b 10 MHz, Parabolic Antenna, 30 MHz – 1 GHz



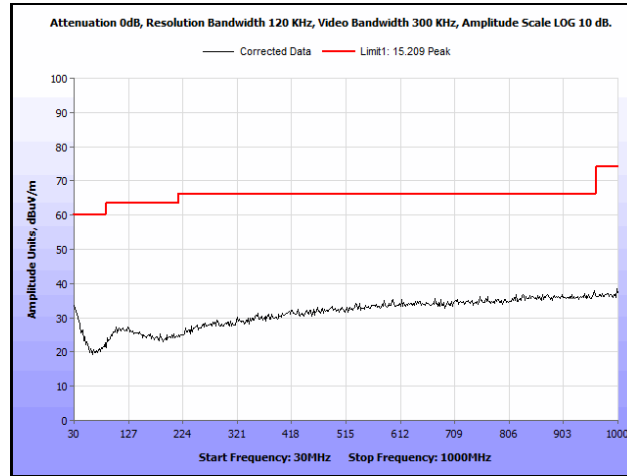
Plot 268. Radiated Spurious Emissions, High Channel, 802.11b 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



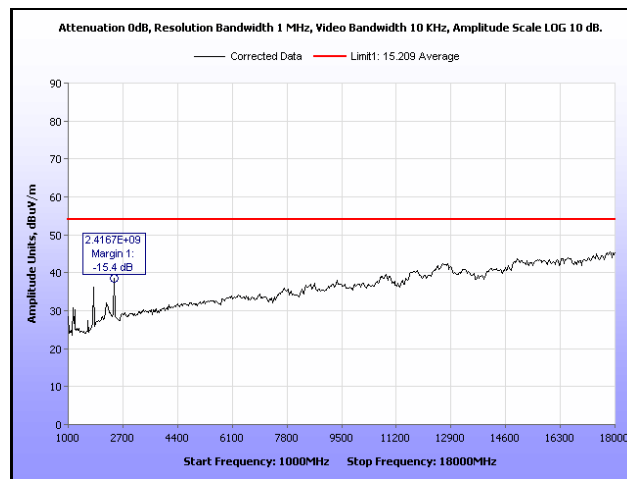
Plot 269. Radiated Spurious Emissions, High Channel, 802.11b 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



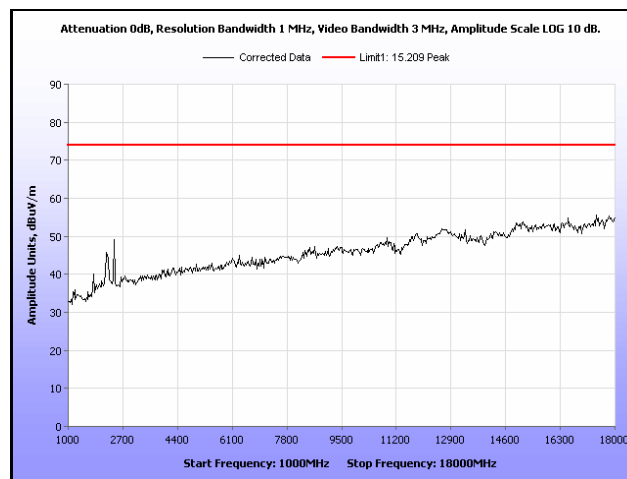
### Radiated Spurious Emissions Test Results, 802.11g 10 MHz, Parabolic Antenna



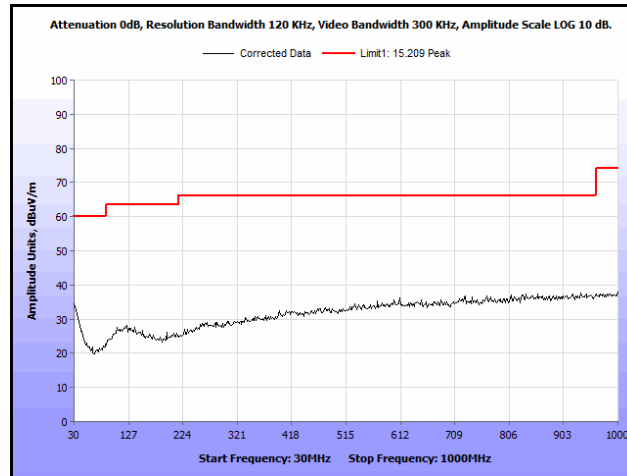
Plot 270. Radiated Spurious Emissions, Low Channel, 802.11g 10 MHz, Parabolic Antenna, 30 MHz – 1 GHz



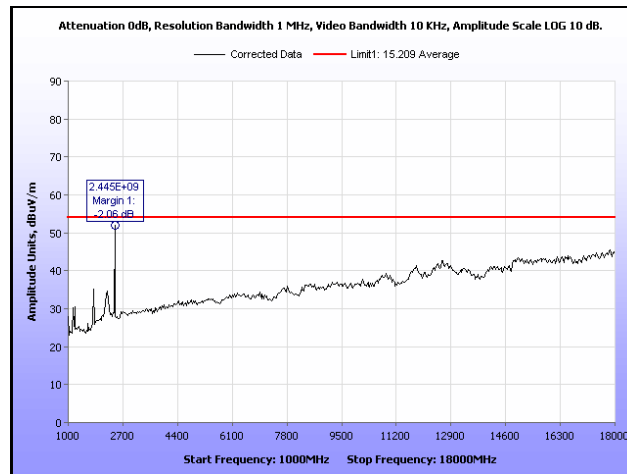
Plot 271. Radiated Spurious Emissions, Low Channel, 802.11g 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



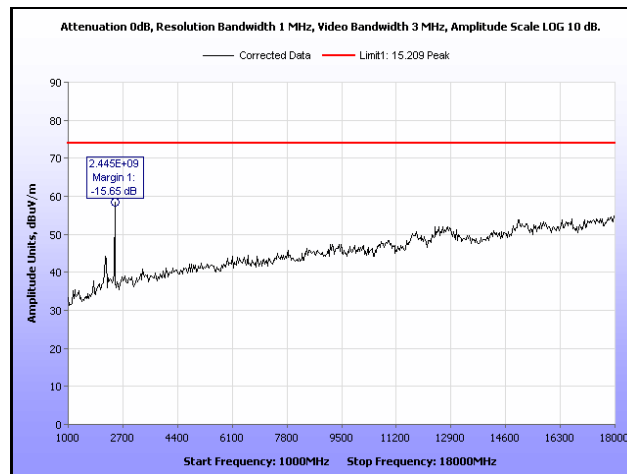
Plot 272. Radiated Spurious Emissions, Low Channel, 802.11g 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



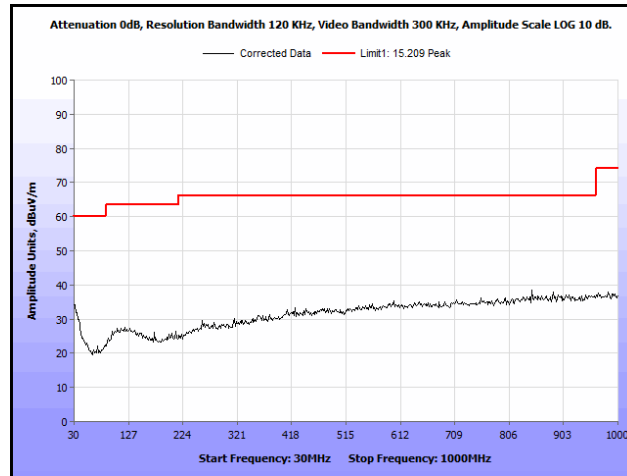
**Plot 273. Radiated Spurious Emissions, Mid Channel, 802.11g 10 MHz, Parabolic Antenna, 30 MHz – 1 GHz**



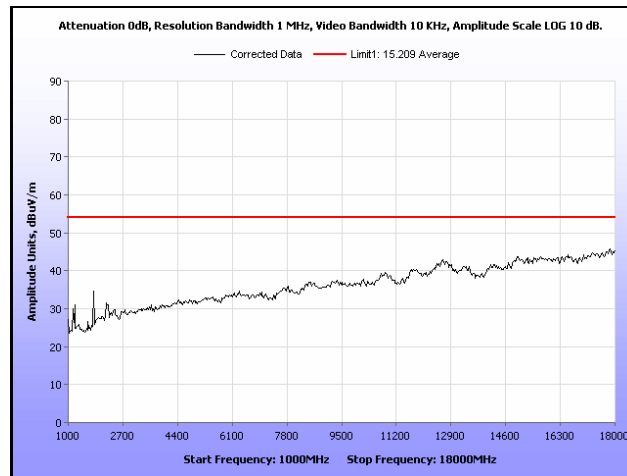
**Plot 274. Radiated Spurious Emissions, Mid Channel, 802.11g 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average**



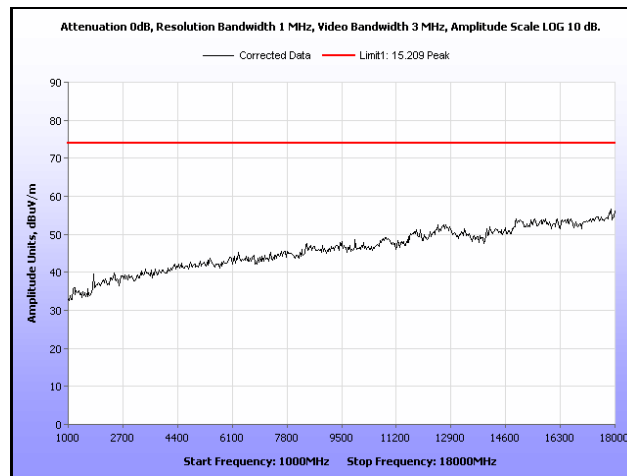
**Plot 275. Radiated Spurious Emissions, Mid Channel, 802.11g 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak**



**Plot 276. Radiated Spurious Emissions, High Channel, 802.11g 10 MHz, Parabolic Antenna, 30 MHz – 1 GHz**

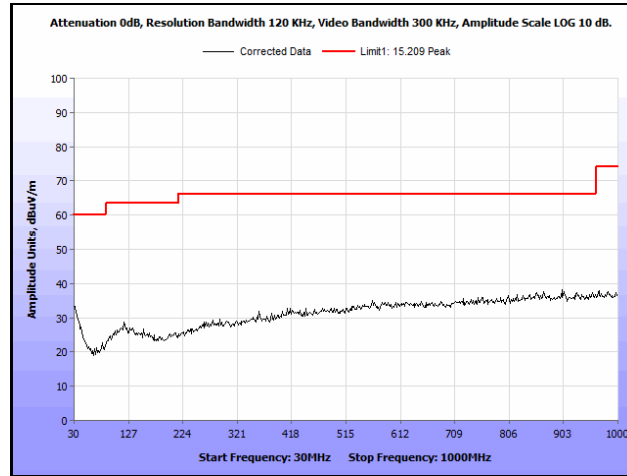


**Plot 277. Radiated Spurious Emissions, High Channel, 802.11g 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average**

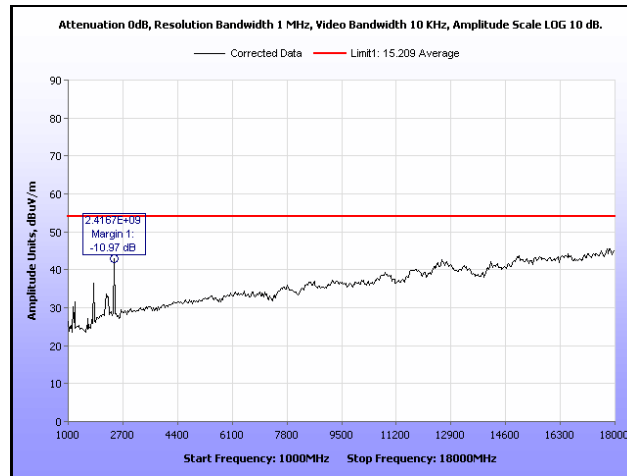


**Plot 278. Radiated Spurious Emissions, High Channel, 802.11g 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak**

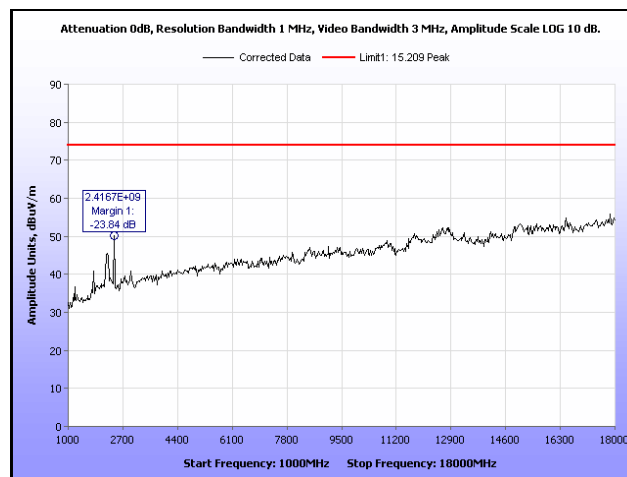
### Radiated Spurious Emissions Test Results, 802.11n 10 MHz, Parabolic Antenna



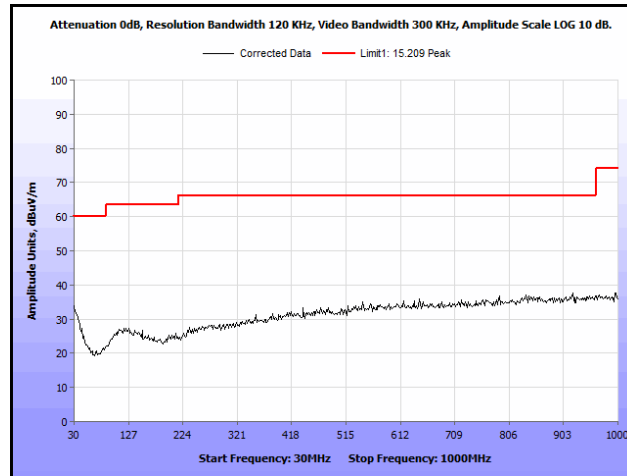
**Plot 279. Radiated Spurious Emissions, Low Channel, 802.11n 10 MHz, Parabolic Antenna, 30 MHz – 1 GHz**



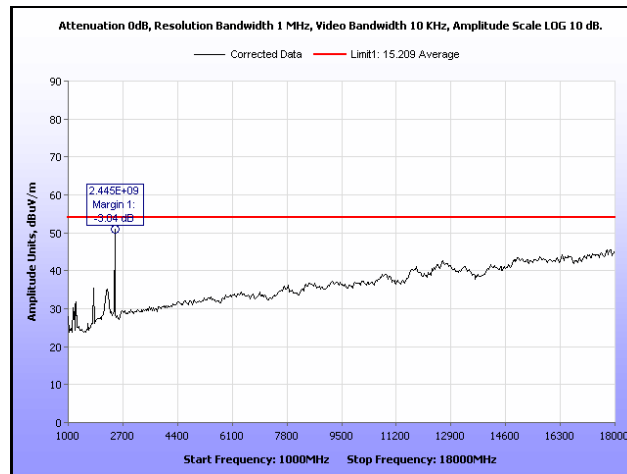
**Plot 280. Radiated Spurious Emissions, Low Channel, 802.11n 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average**



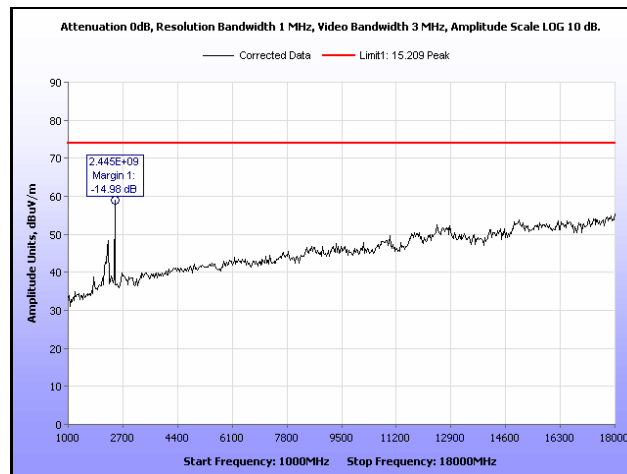
**Plot 281. Radiated Spurious Emissions, Low Channel, 802.11n 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak**



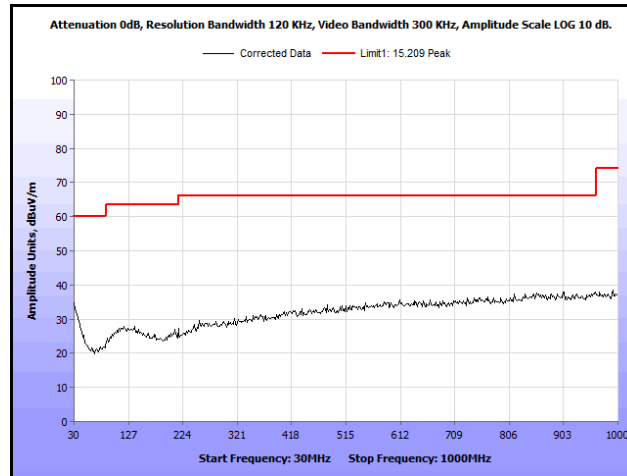
**Plot 282. Radiated Spurious Emissions, Mid Channel, 802.11n 10 MHz, Parabolic Antenna, 30 MHz – 1 GHz**



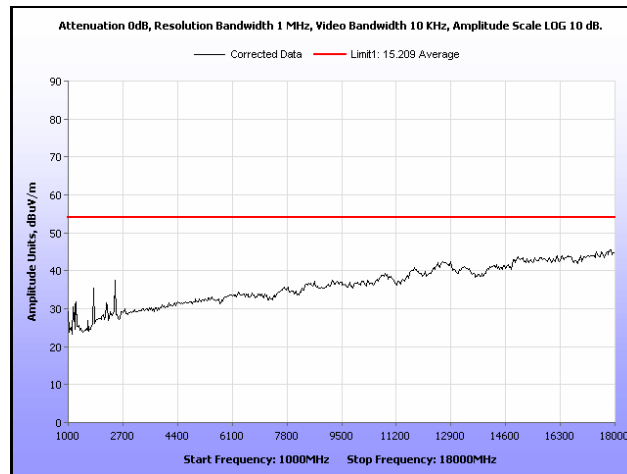
**Plot 283. Radiated Spurious Emissions, Mid Channel, 802.11n 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average**



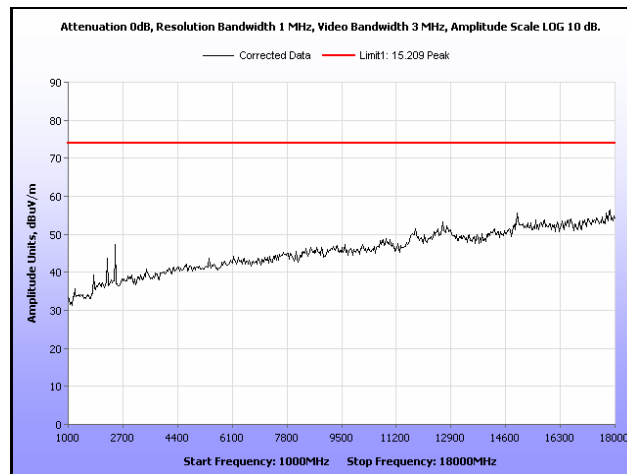
**Plot 284. Radiated Spurious Emissions, Mid Channel, 802.11n 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak**



**Plot 285. Radiated Spurious Emissions, High Channel, 802.11n 10 MHz, Parabolic Antenna, 30 MHz – 1 GHz**

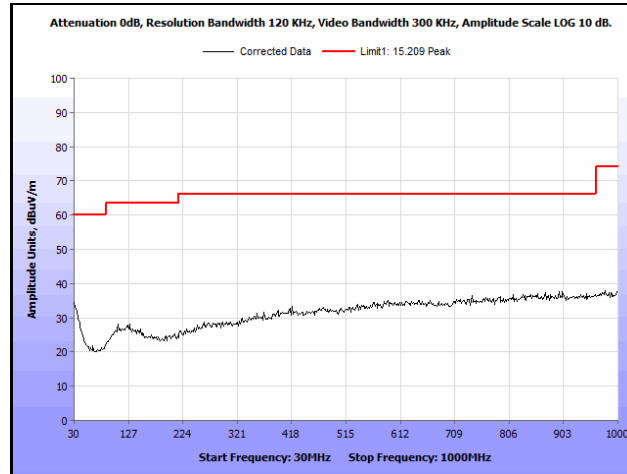


**Plot 286. Radiated Spurious Emissions, High Channel, 802.11n 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average**

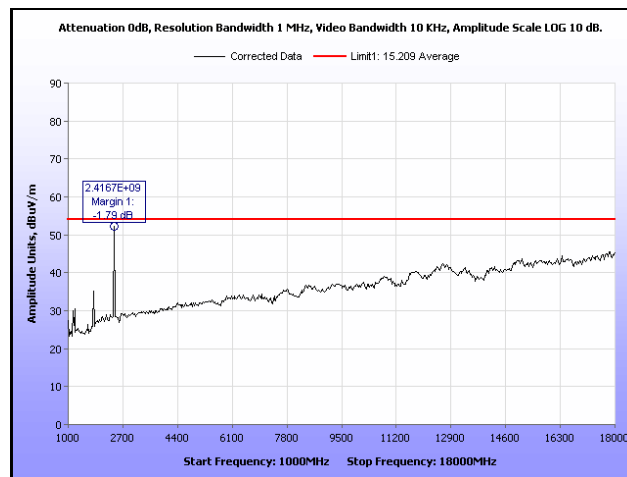


**Plot 287. Radiated Spurious Emissions, High Channel, 802.11n 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak**

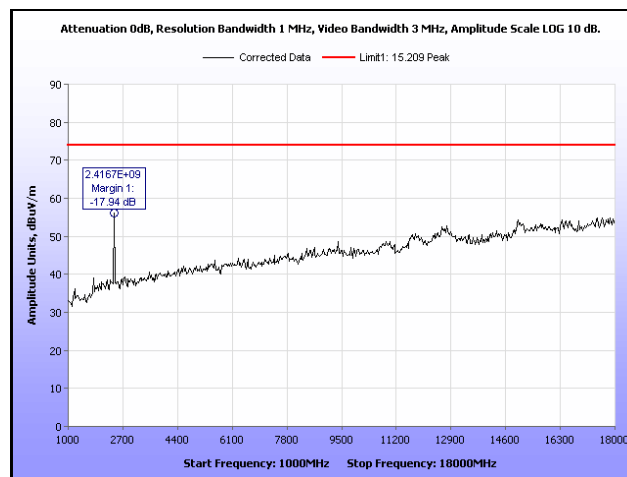
### Radiated Spurious Emissions Test Results, 802.11b 20 MHz, Parabolic Antenna



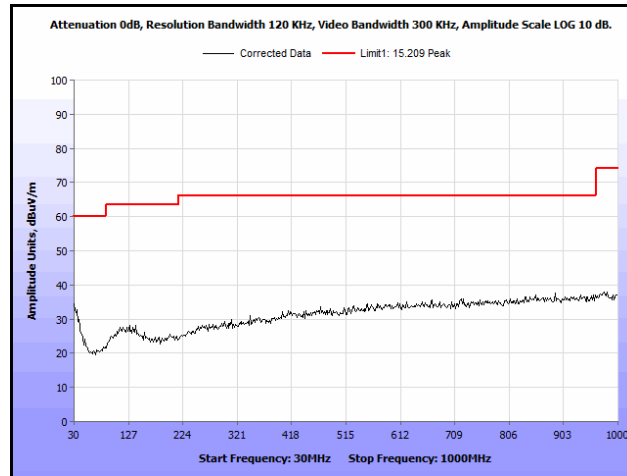
**Plot 288. Radiated Spurious Emissions, Low Channel, 802.11b 20 MHz, Parabolic Antenna, 30 MHz – 1 GHz**



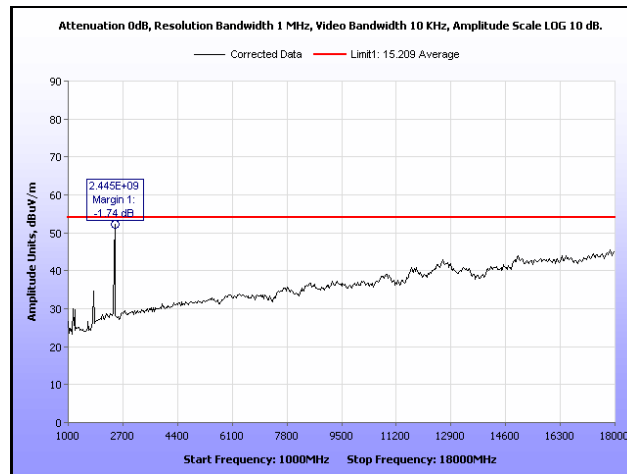
**Plot 289. Radiated Spurious Emissions, Low Channel, 802.11b 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average**



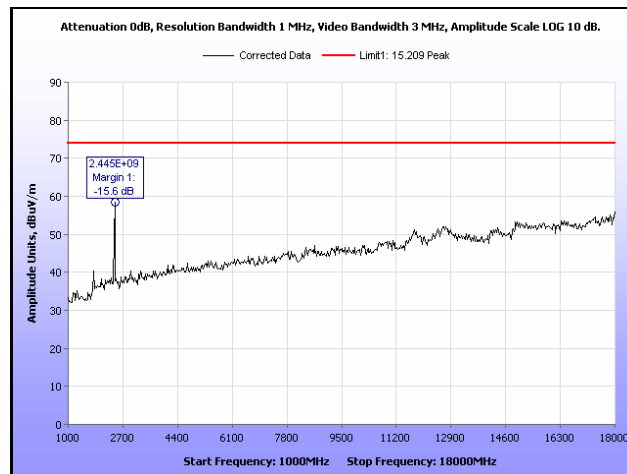
**Plot 290. Radiated Spurious Emissions, Low Channel, 802.11b 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak**



**Plot 291. Radiated Spurious Emissions, Mid Channel, 802.11b 20 MHz, Parabolic Antenna, 30 MHz – 1 GHz**

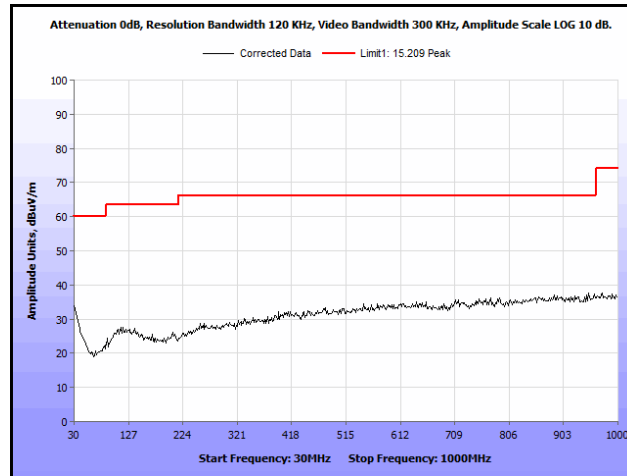


**Plot 292. Radiated Spurious Emissions, Mid Channel, 802.11b 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average**

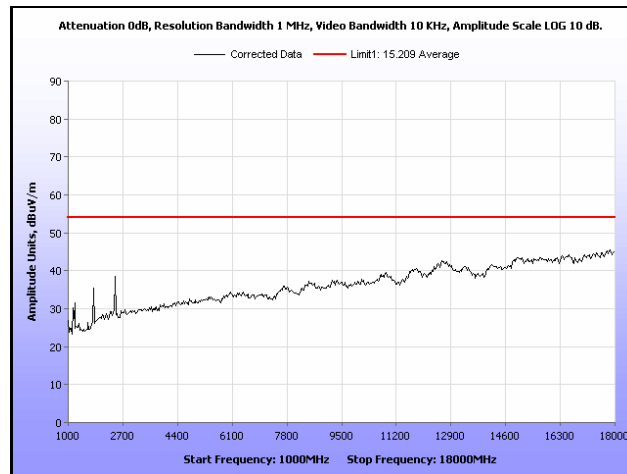


**Plot 293. Radiated Spurious Emissions, Mid Channel, 802.11b 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak**

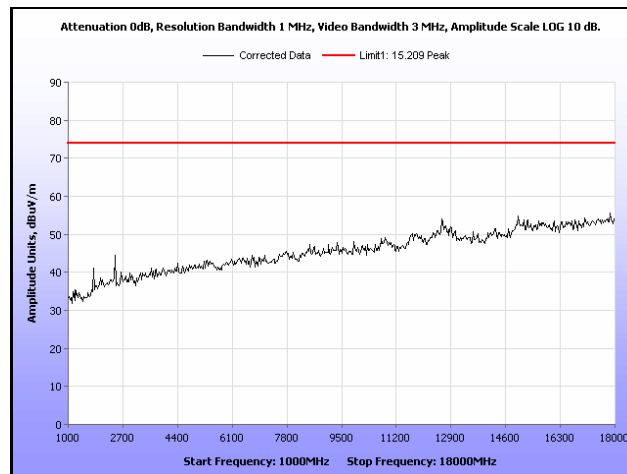




**Plot 294. Radiated Spurious Emissions, High Channel, 802.11b 20 MHz, Parabolic Antenna, 30 MHz – 1 GHz**

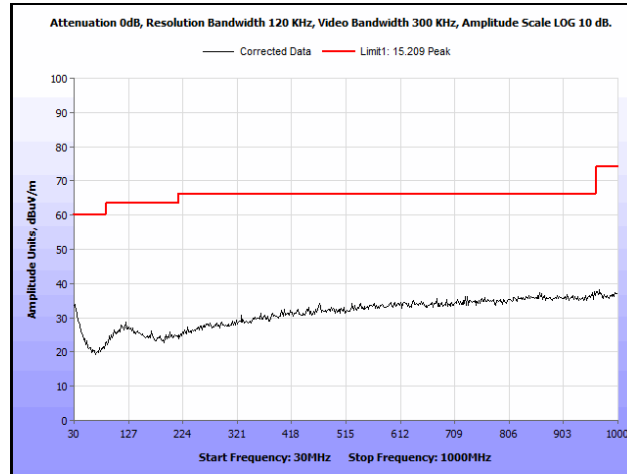


**Plot 295. Radiated Spurious Emissions, High Channel, 802.11b 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average**

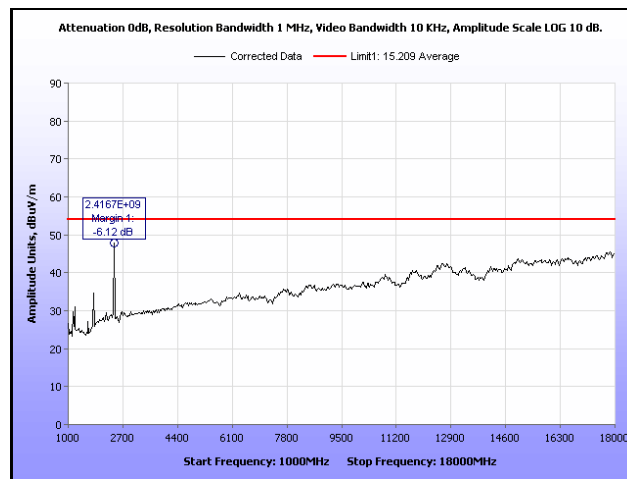


**Plot 296. Radiated Spurious Emissions, High Channel, 802.11b 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak**

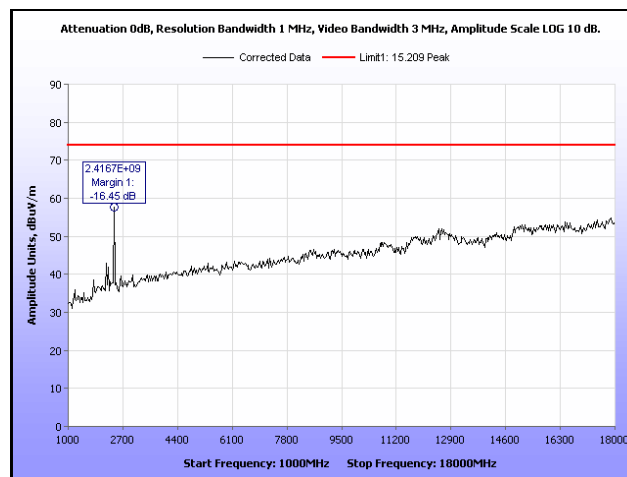
## Radiated Spurious Emissions Test Results, 802.11g 20 MHz, Parabolic Antenna



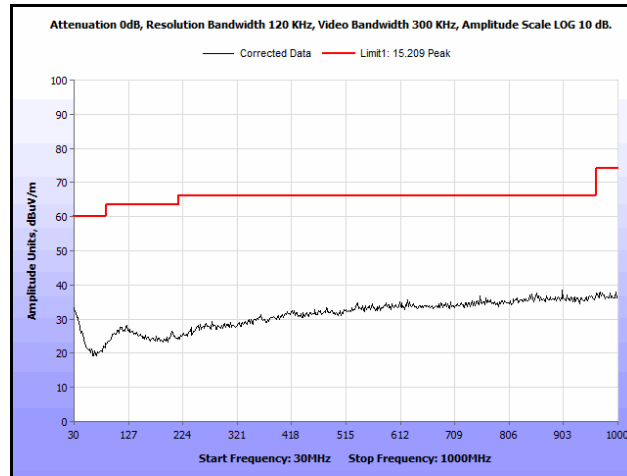
Plot 297. Radiated Spurious Emissions, Low Channel, 802.11g 20 MHz, Parabolic Antenna, 30 MHz – 1 GHz



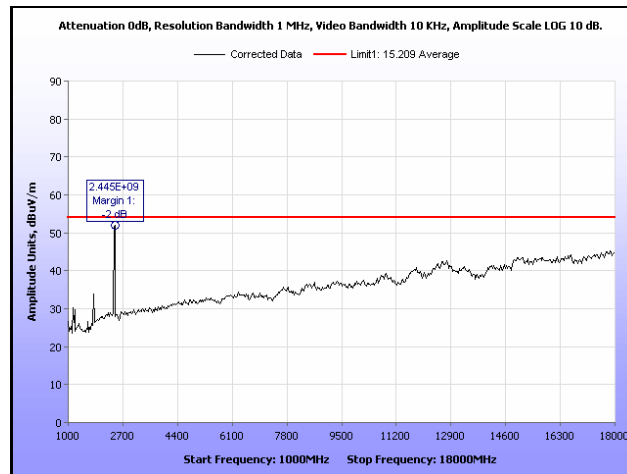
Plot 298. Radiated Spurious Emissions, Low Channel, 802.11g 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



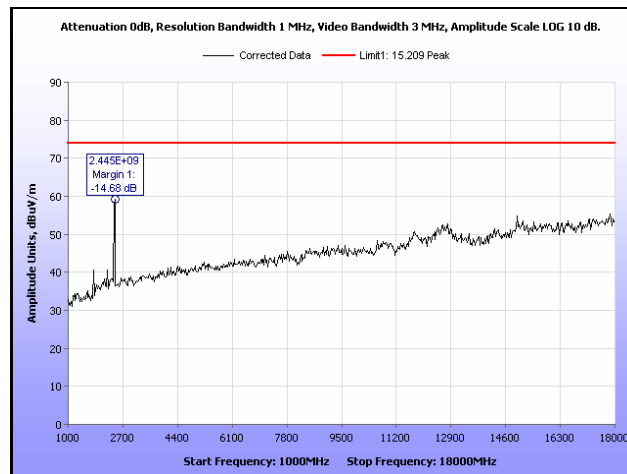
Plot 299. Radiated Spurious Emissions, Low Channel, 802.11g 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



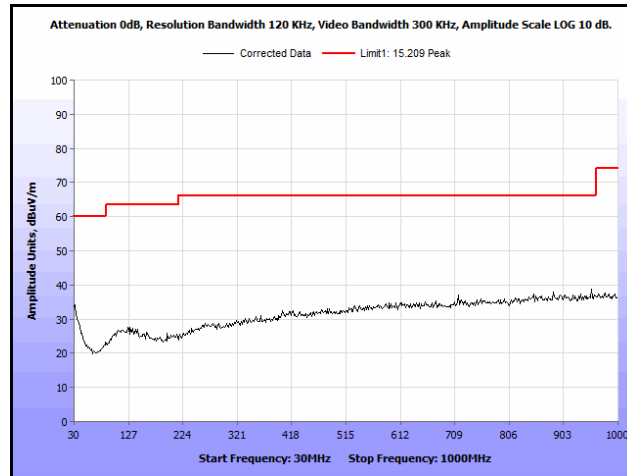
**Plot 300. Radiated Spurious Emissions, Mid Channel, 802.11g 20 MHz, Parabolic Antenna, 30 MHz – 1 GHz**



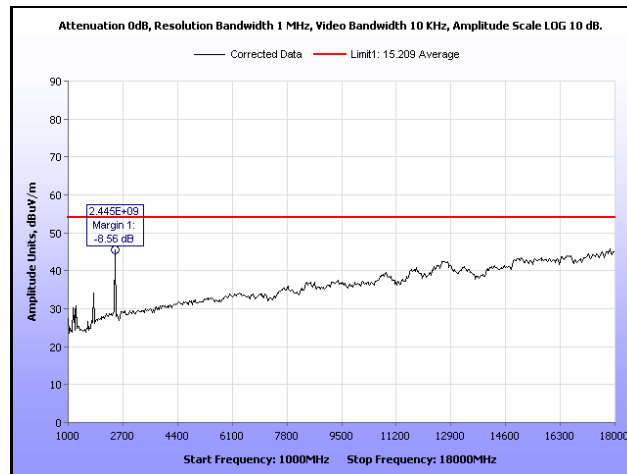
**Plot 301. Radiated Spurious Emissions, Mid Channel, 802.11g 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average**



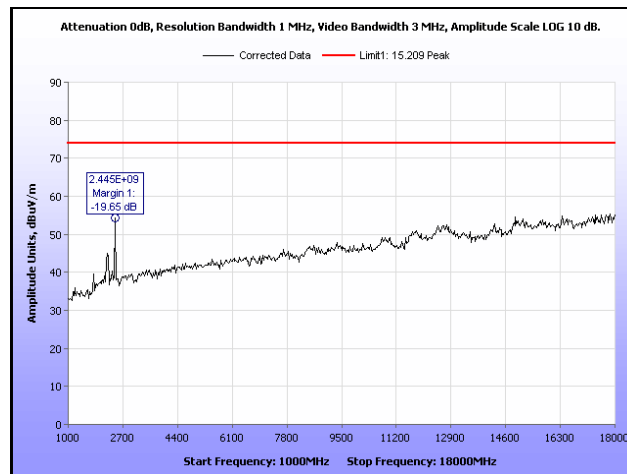
**Plot 302. Radiated Spurious Emissions, Mid Channel, 802.11g 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak**



**Plot 303. Radiated Spurious Emissions, High Channel, 802.11g 20 MHz, Parabolic Antenna, 30 MHz – 1 GHz**

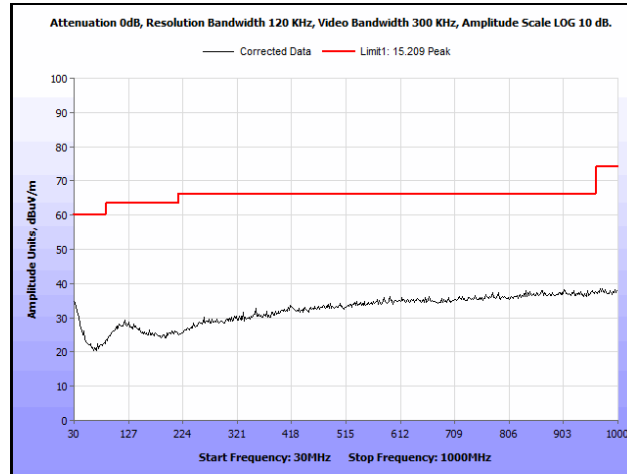


**Plot 304. Radiated Spurious Emissions, High Channel, 802.11g 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average**

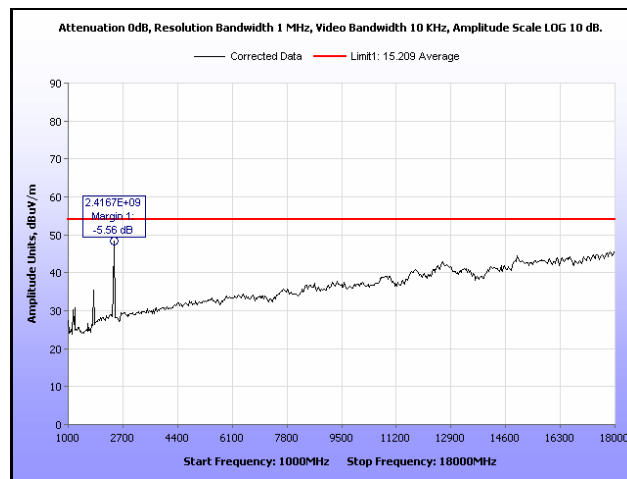


**Plot 305. Radiated Spurious Emissions, High Channel, 802.11g 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak**

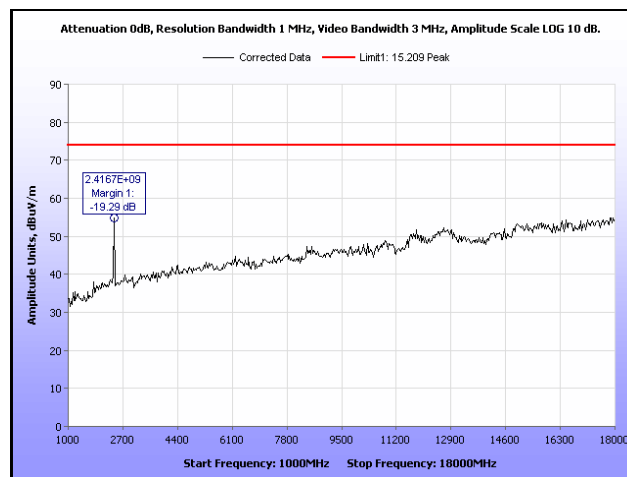
## Radiated Spurious Emissions Test Results, 802.11n 20 MHz, Parabolic Antenna



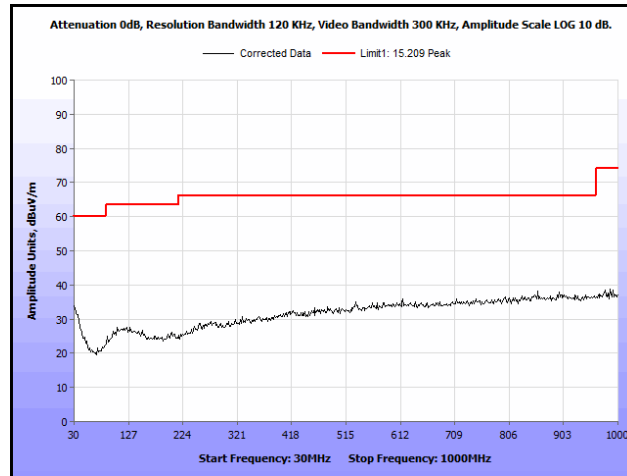
Plot 306. Radiated Spurious Emissions, Low Channel, 802.11n 20 MHz, Parabolic Antenna, 30 MHz – 1 GHz



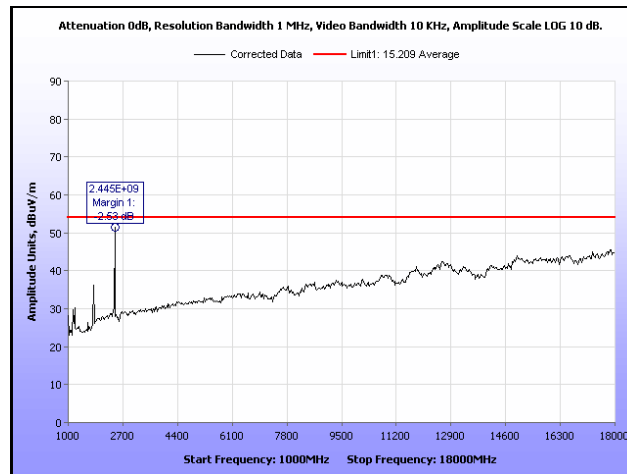
Plot 307. Radiated Spurious Emissions, Low Channel, 802.11n 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



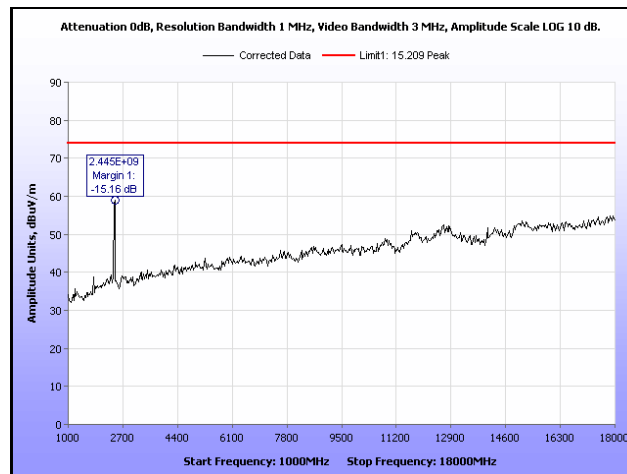
Plot 308. Radiated Spurious Emissions, Low Channel, 802.11n 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



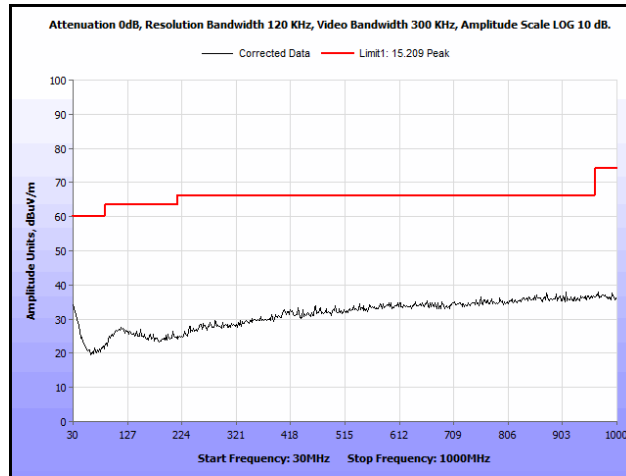
**Plot 309. Radiated Spurious Emissions, Mid Channel, 802.11n 20 MHz, Parabolic Antenna, 30 MHz – 1 GHz**



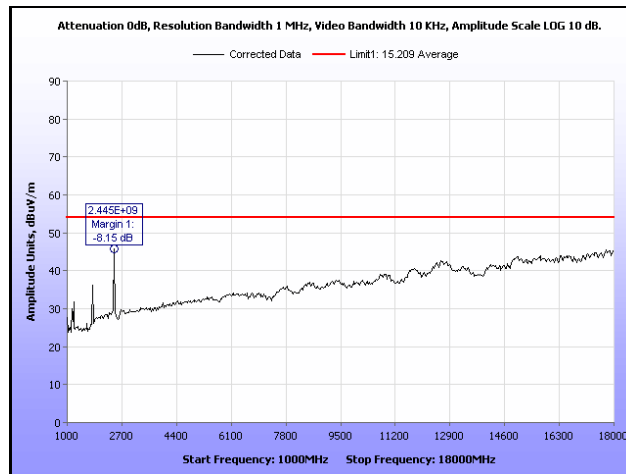
**Plot 310. Radiated Spurious Emissions, Mid Channel, 802.11n 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average**



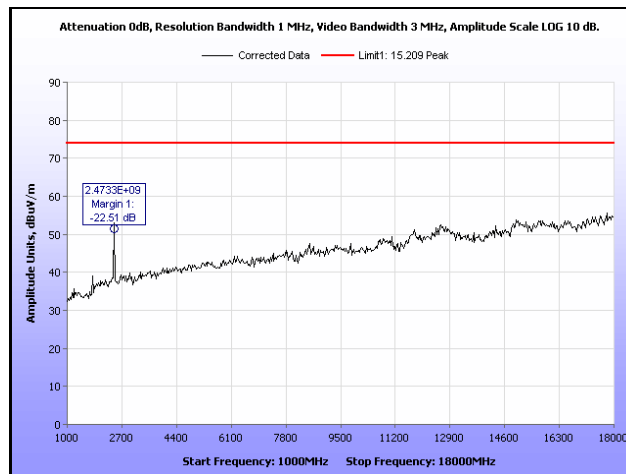
**Plot 311. Radiated Spurious Emissions, Mid Channel, 802.11n 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak**



**Plot 312. Radiated Spurious Emissions, High Channel, 802.11n 20 MHz, Parabolic Antenna, 30 MHz – 1 GHz**

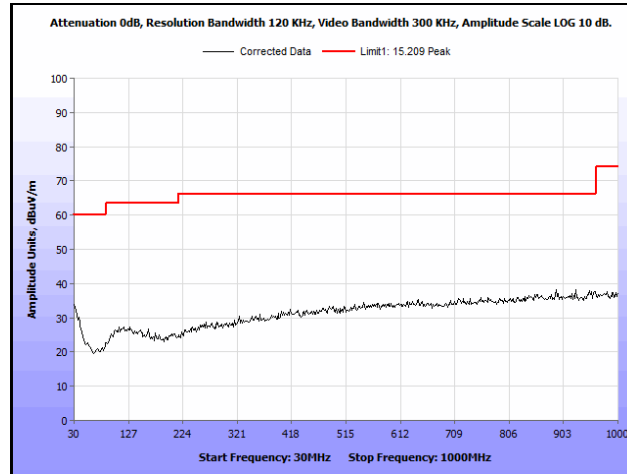


**Plot 313. Radiated Spurious Emissions, High Channel, 802.11n 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average**

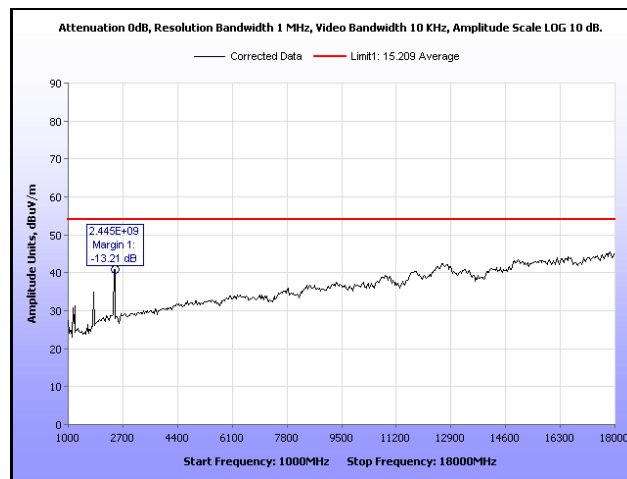


**Plot 314. Radiated Spurious Emissions, High Channel, 802.11n 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak**

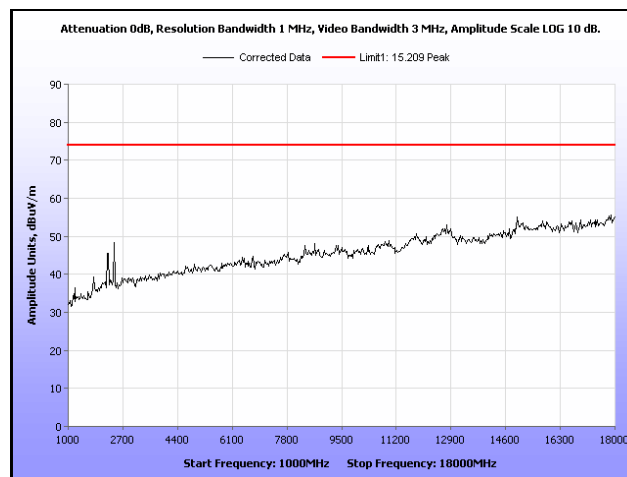
## Radiated Spurious Emissions Test Results, 802.11g 40 MHz, Parabolic Antenna



Plot 315. Radiated Spurious Emissions, Low Channel, 802.11g 40 MHz, Parabolic Antenna, 30 MHz – 1 GHz

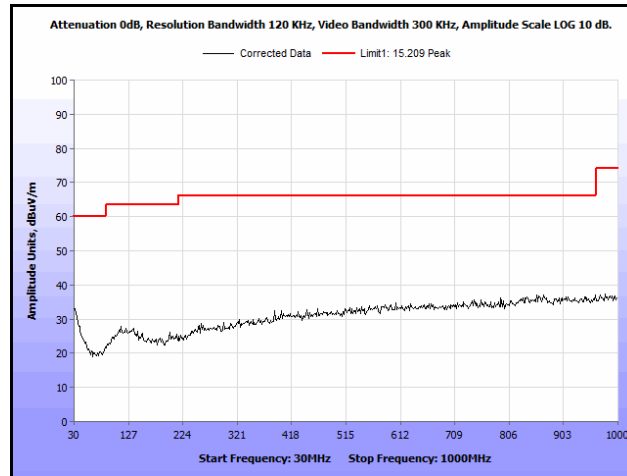


Plot 316. Radiated Spurious Emissions, Low Channel, 802.11g 40 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average

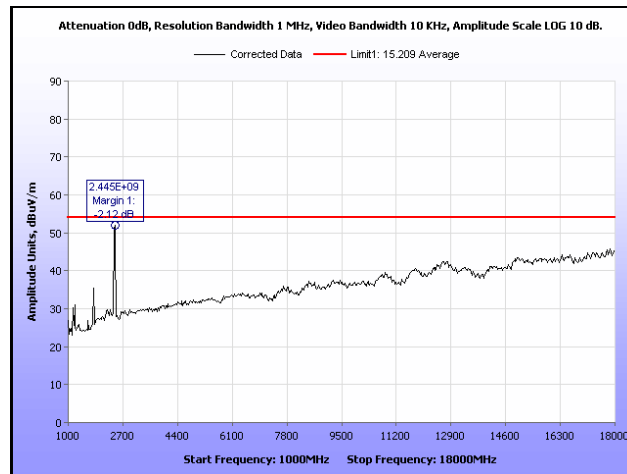


Plot 317. Radiated Spurious Emissions, Low Channel, 802.11g 40 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak

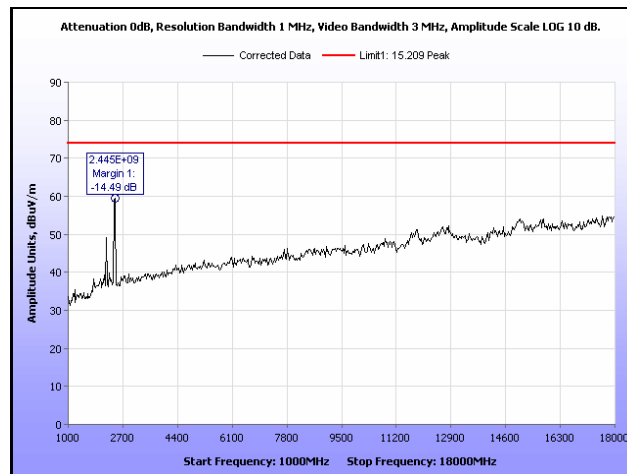




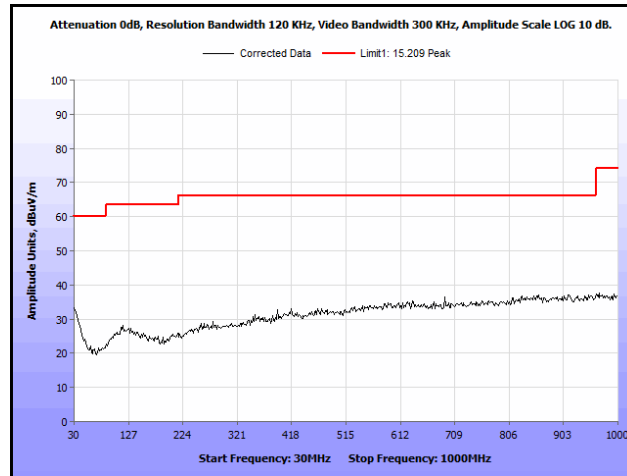
**Plot 318. Radiated Spurious Emissions, Mid Channel, 802.11g 40 MHz, Parabolic Antenna, 30 MHz – 1 GHz**



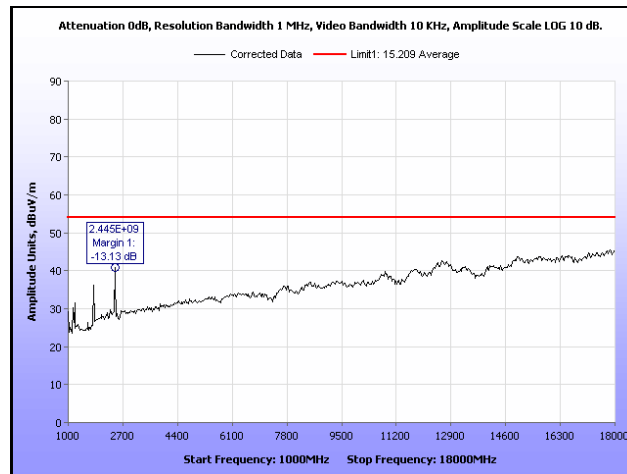
**Plot 319. Radiated Spurious Emissions, Mid Channel, 802.11g 40 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average**



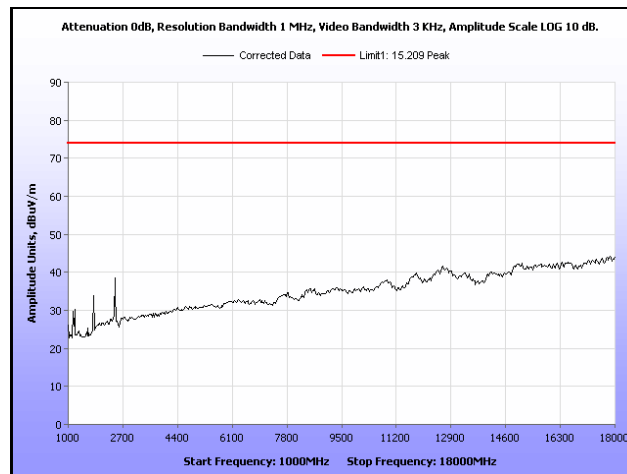
**Plot 320. Radiated Spurious Emissions, Mid Channel, 802.11g 40 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak**



**Plot 321. Radiated Spurious Emissions, High Channel, 802.11g 40 MHz, Parabolic Antenna, 30 MHz – 1 GHz**

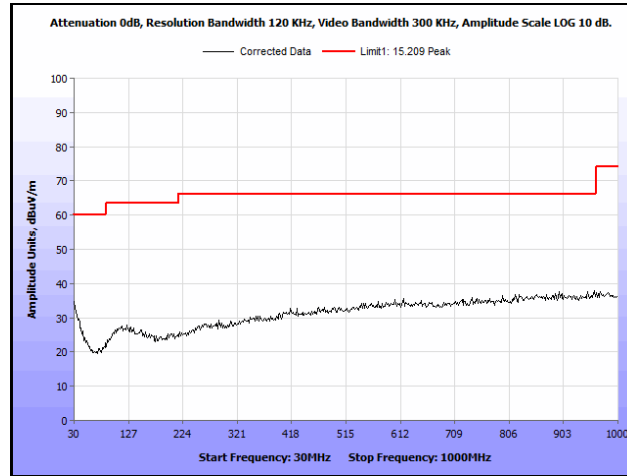


**Plot 322. Radiated Spurious Emissions, High Channel, 802.11g 40 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average**

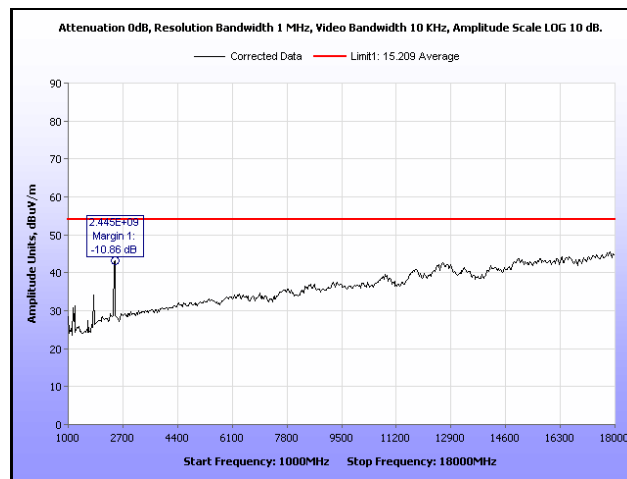


**Plot 323. Radiated Spurious Emissions, High Channel, 802.11g 40 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak**

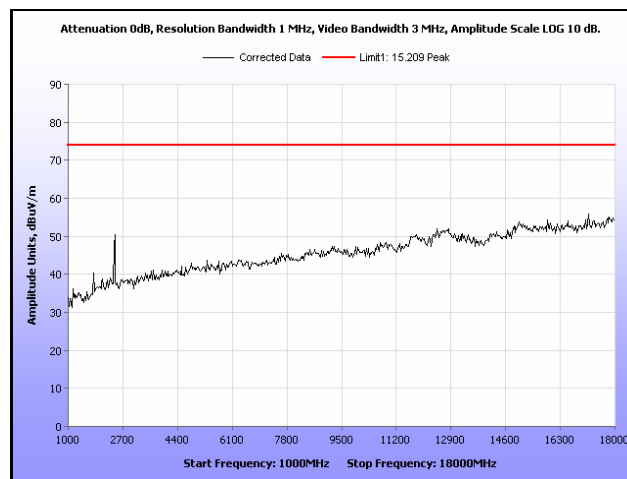
**Radiated Spurious Emissions Test Results, 802.11n 40 MHz, Parabolic Antenna**



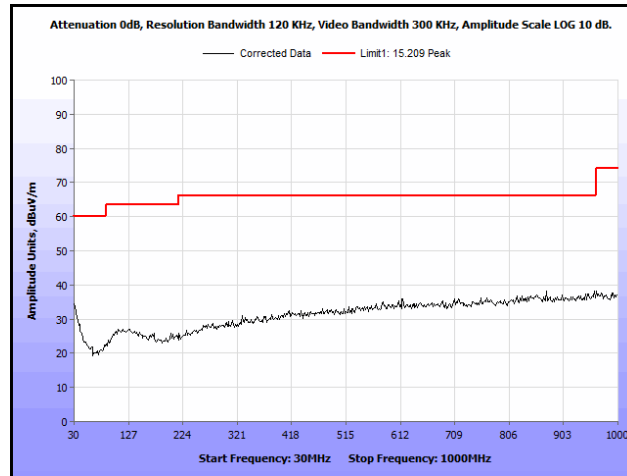
**Plot 324. Radiated Spurious Emissions, Low Channel, 802.11n 40 MHz, Parabolic Antenna, 30 MHz – 1 GHz**



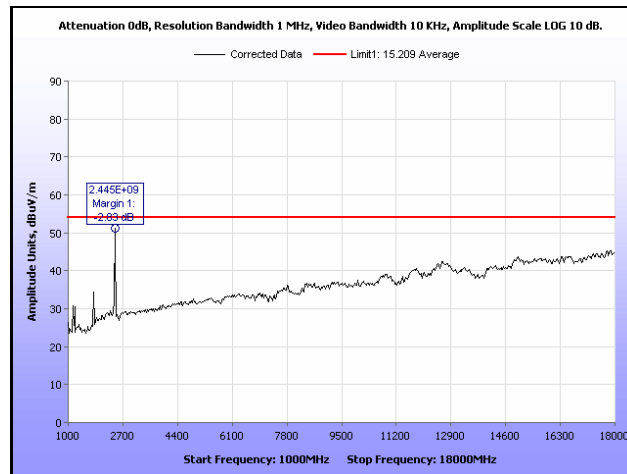
**Plot 325. Radiated Spurious Emissions, Low Channel, 802.11n 40 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average**



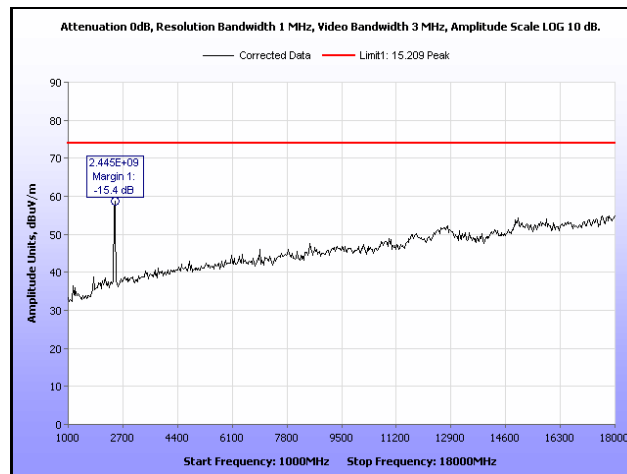
**Plot 326. Radiated Spurious Emissions, Low Channel, 802.11n 40 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak**



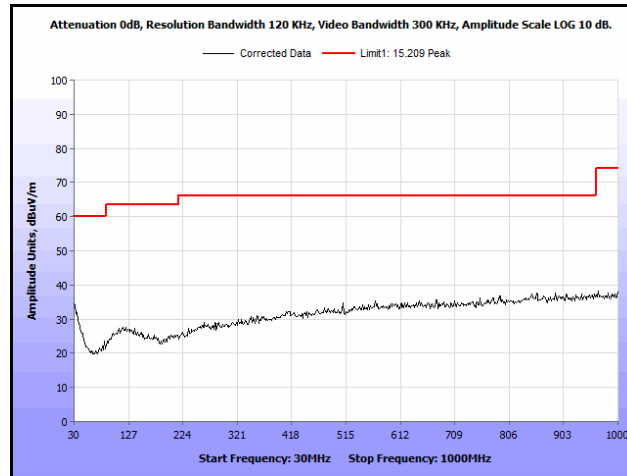
**Plot 327. Radiated Spurious Emissions, Mid Channel, 802.11n 40 MHz, Parabolic Antenna, 30 MHz – 1 GHz**



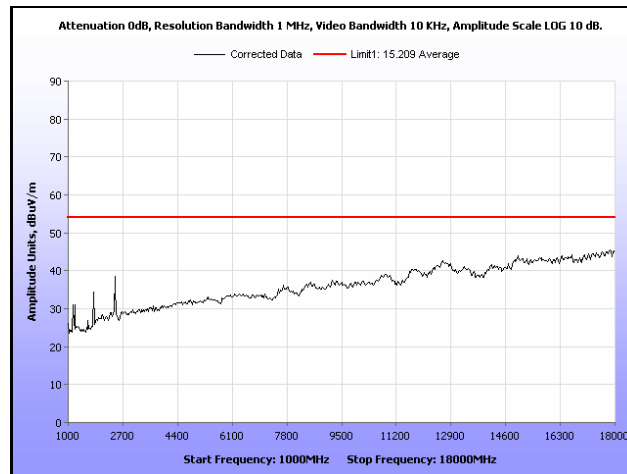
**Plot 328. Radiated Spurious Emissions, Mid Channel, 802.11n 40 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average**



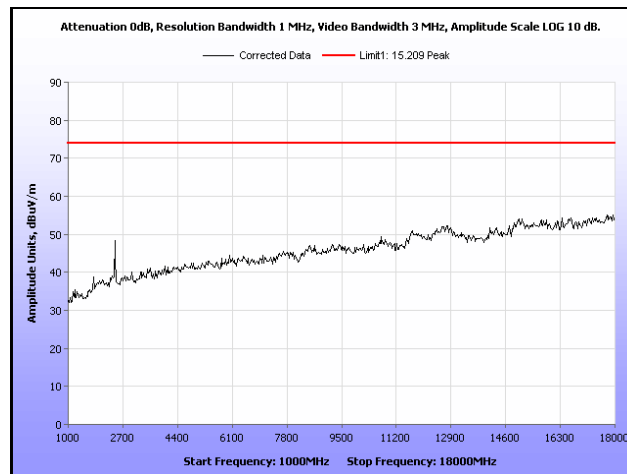
**Plot 329. Radiated Spurious Emissions, Mid Channel, 802.11n 40 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak**



**Plot 330. Radiated Spurious Emissions, High Channel, 802.11n 40 MHz, Parabolic Antenna, 30 MHz – 1 GHz**

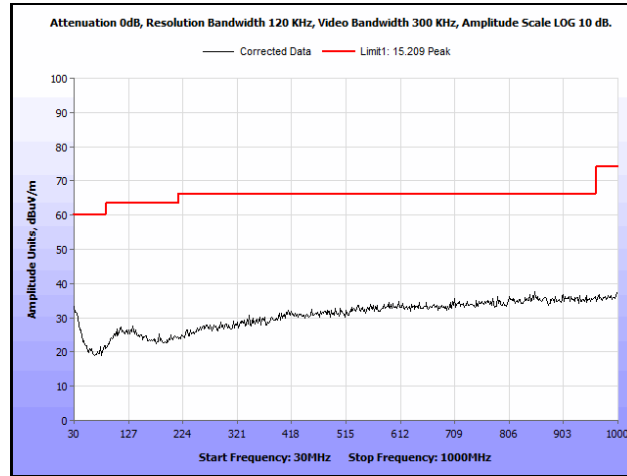


**Plot 331. Radiated Spurious Emissions, High Channel, 802.11n 40 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average**

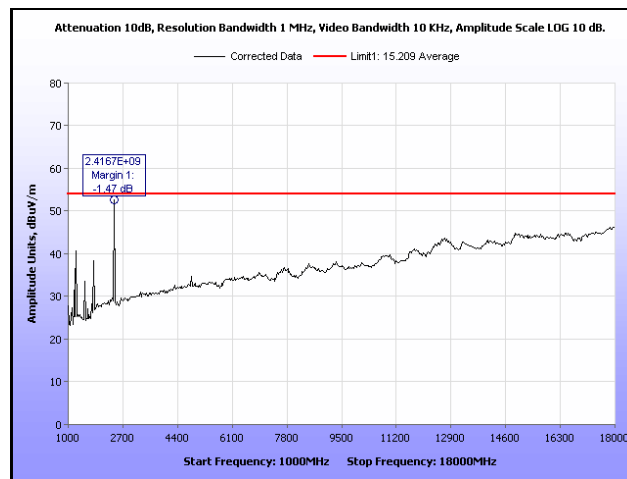


**Plot 332. Radiated Spurious Emissions, High Channel, 802.11n 40 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak**

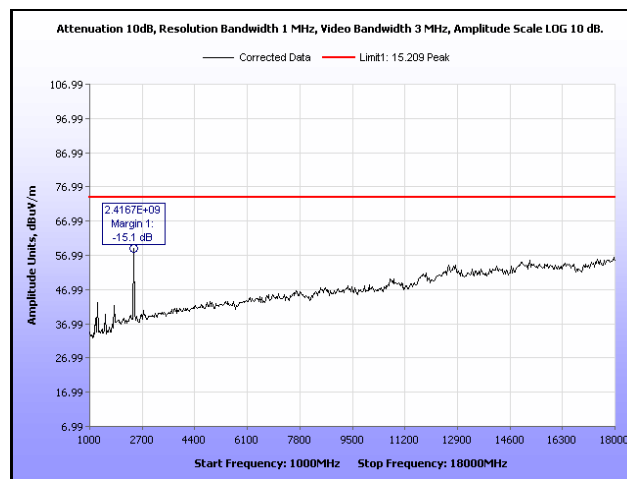
**Radiated Spurious Emissions Test Results, 802.11b 5 MHz, Yagi Antenna**



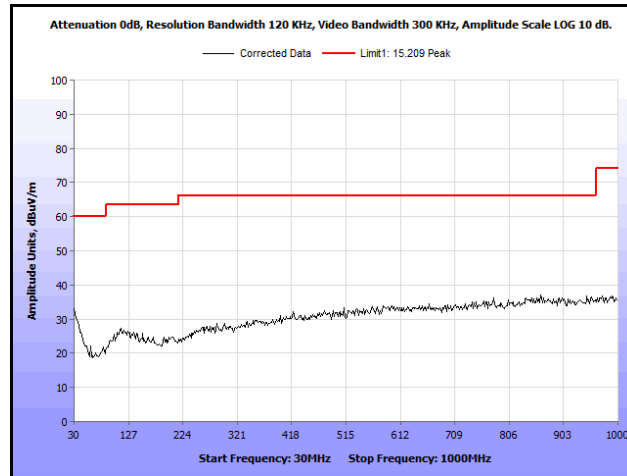
**Plot 333. Radiated Spurious Emissions, Low Channel, 802.11b 5 MHz, Yagi Antenna, 30 MHz – 1 GHz**



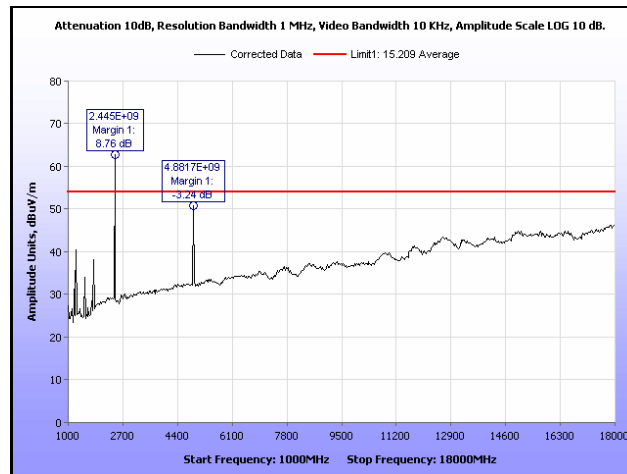
**Plot 334. Radiated Spurious Emissions, Low Channel, 802.11b 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**



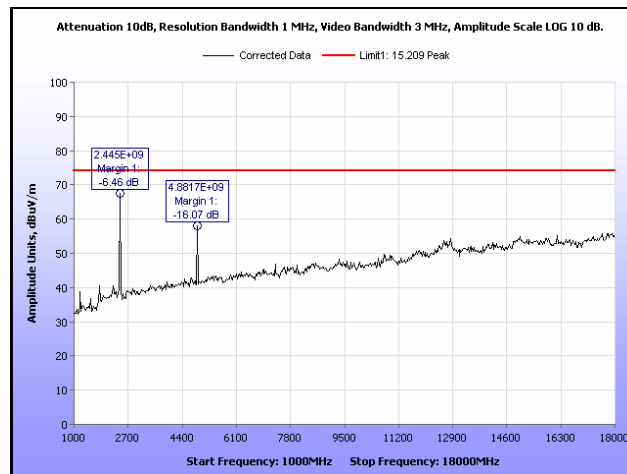
**Plot 335. Radiated Spurious Emissions, Low Channel, 802.11b 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**



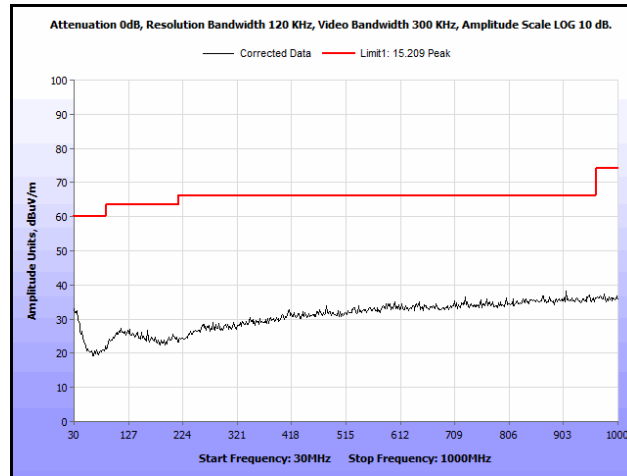
**Plot 336. Radiated Spurious Emissions, Mid Channel, 802.11b 5 MHz, Yagi Antenna, 30 MHz – 1 GHz**



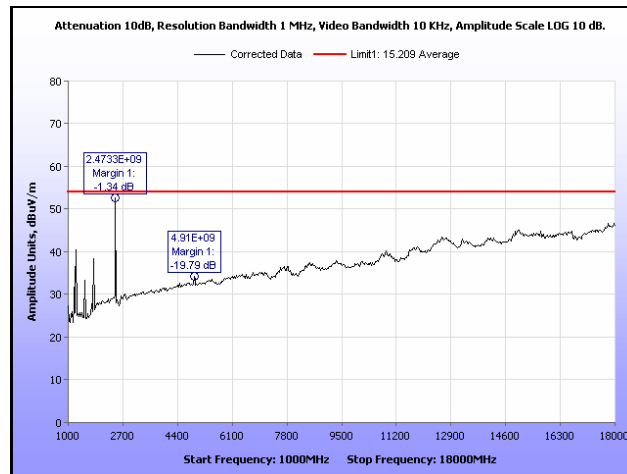
**Plot 337. Radiated Spurious Emissions, Mid Channel, 802.11b 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**



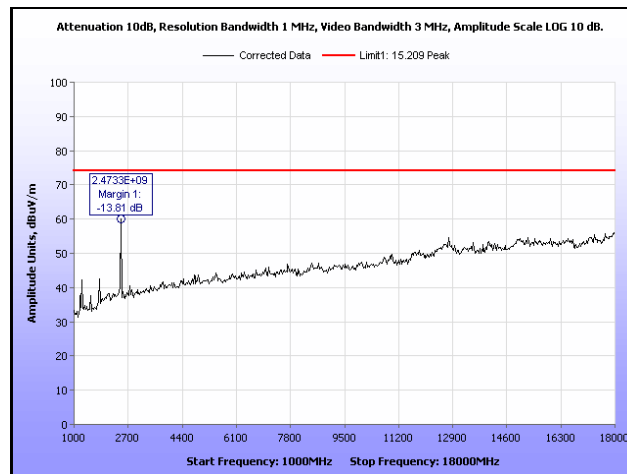
**Plot 338. Radiated Spurious Emissions, Mid Channel, 802.11b 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**



**Plot 339. Radiated Spurious Emissions, High Channel, 802.11b 5 MHz, Yagi Antenna, 30 MHz – 1 GHz**



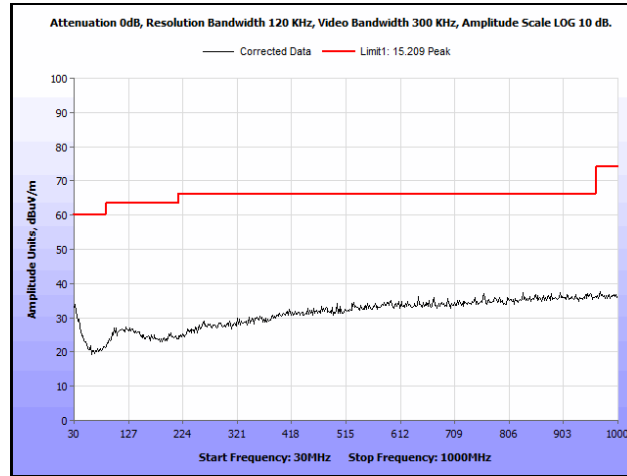
**Plot 340. Radiated Spurious Emissions, High Channel, 802.11b 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**



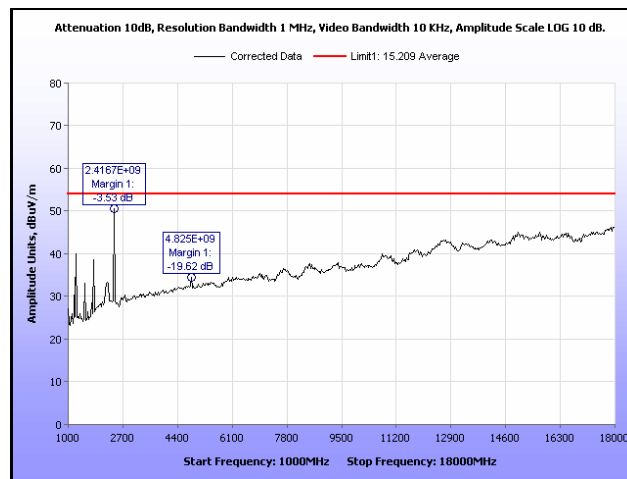
**Plot 341. Radiated Spurious Emissions, High Channel, 802.11b 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**



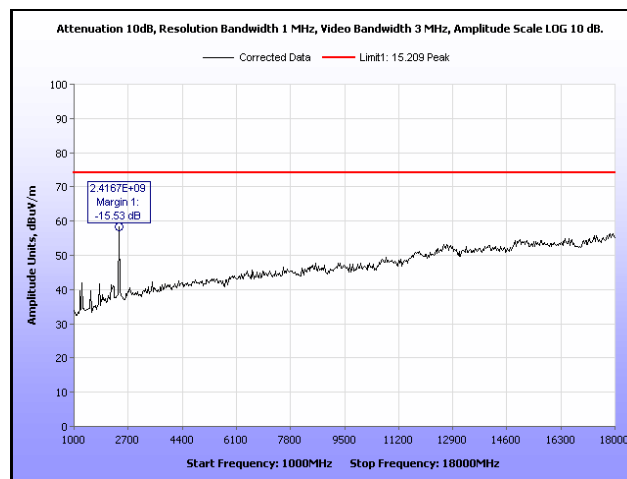
**Radiated Spurious Emissions Test Results, 802.11g 5 MHz, Yagi Antenna**



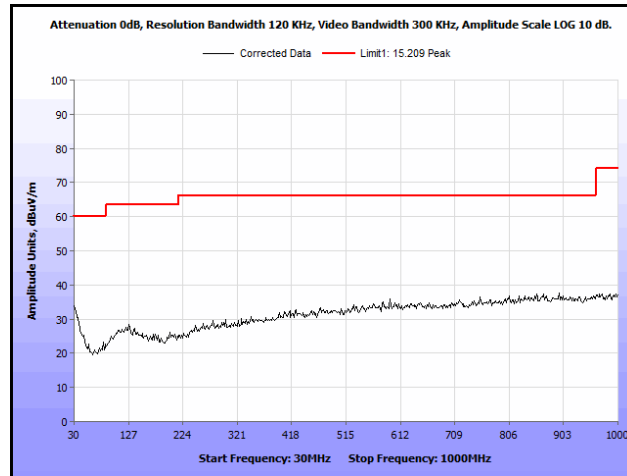
**Plot 342. Radiated Spurious Emissions, Low Channel, 802.11g 5 MHz, Yagi Antenna, 30 MHz – 1 GHz**



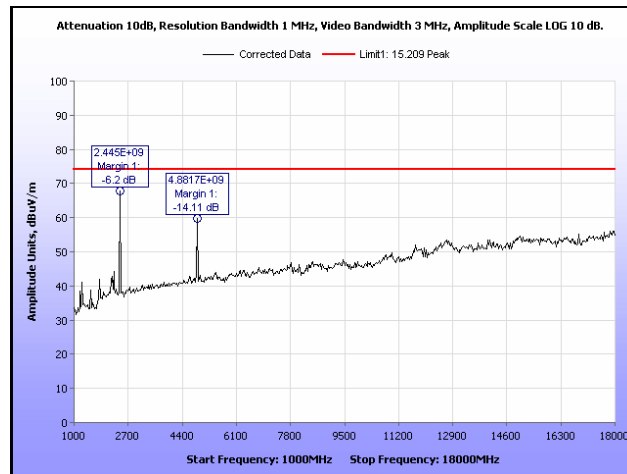
**Plot 343. Radiated Spurious Emissions, Low Channel, 802.11g 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**



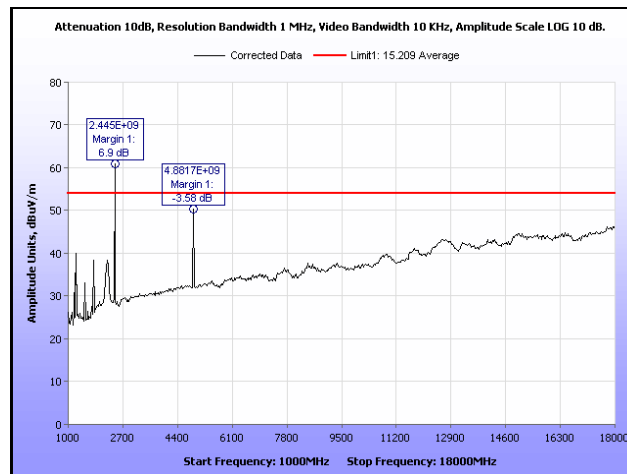
**Plot 344. Radiated Spurious Emissions, Low Channel, 802.11g 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**



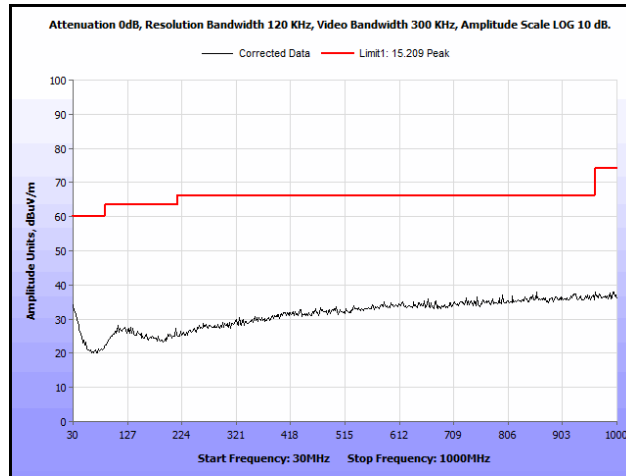
**Plot 345. Radiated Spurious Emissions, Mid Channel, 802.11g 5 MHz, Yagi Antenna, 30 MHz – 1 GHz**



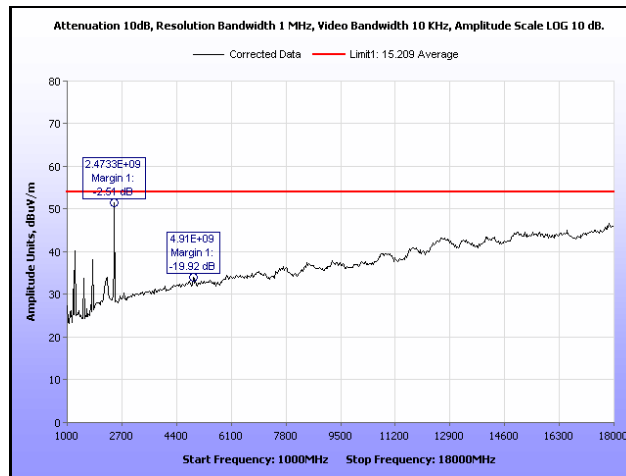
**Plot 346. Radiated Spurious Emissions, Mid Channel, 802.11g 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**



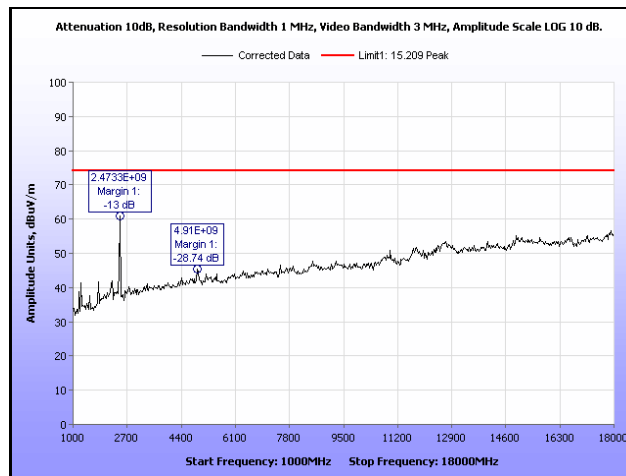
**Plot 347. Radiated Spurious Emissions, Mid Channel, 802.11g 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**



**Plot 348. Radiated Spurious Emissions, High Channel, 802.11g 5 MHz, Yagi Antenna, 30 MHz – 1 GHz**

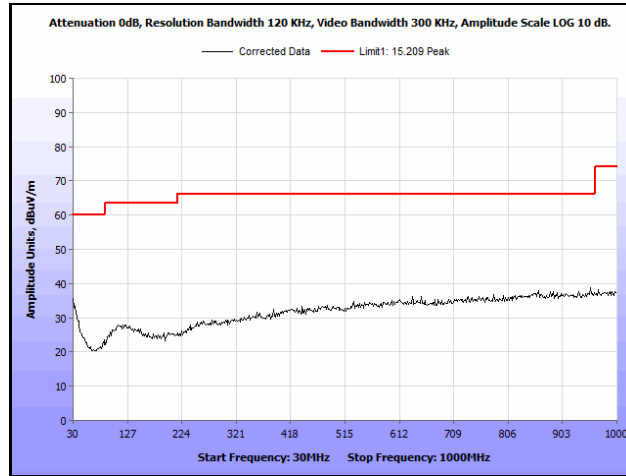


**Plot 349. Radiated Spurious Emissions, High Channel, 802.11g 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**

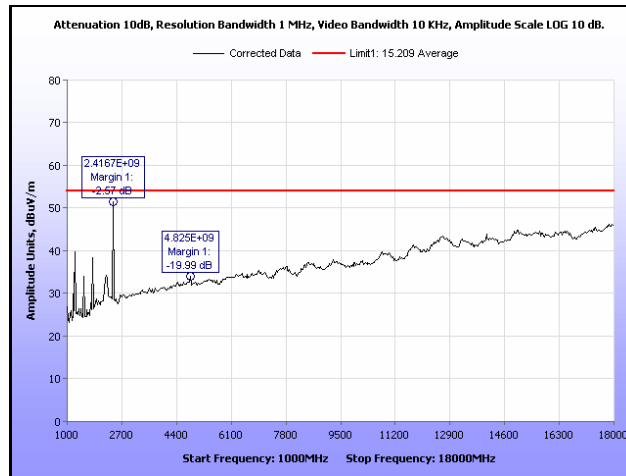


**Plot 350. Radiated Spurious Emissions, High Channel, 802.11g 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**

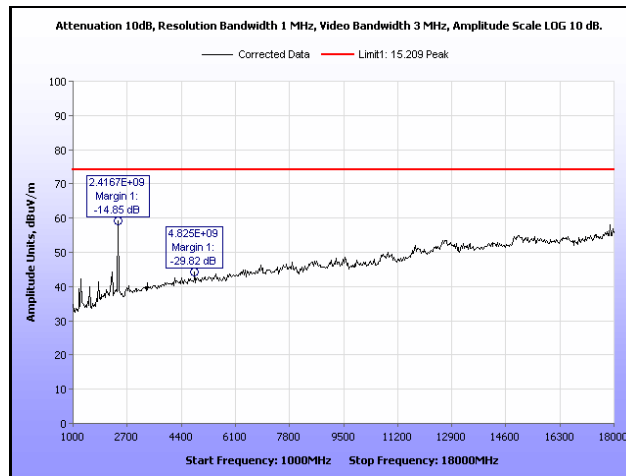
**Radiated Spurious Emissions Test Results, 802.11n 5 MHz, Yagi Antenna**



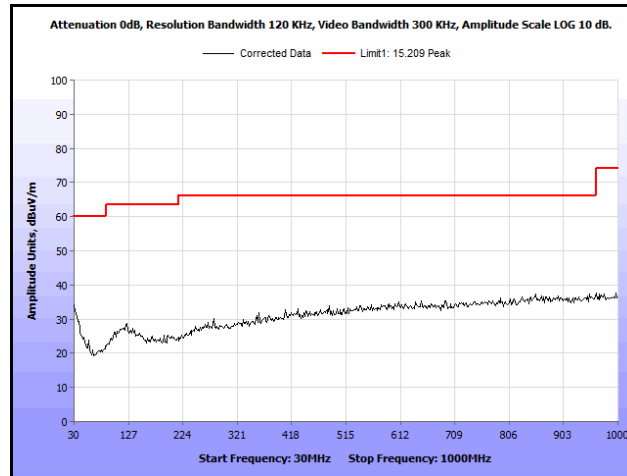
**Plot 351. Radiated Spurious Emissions, Low Channel, 802.11n 5 MHz, Yagi Antenna, 30 MHz – 1 GHz**



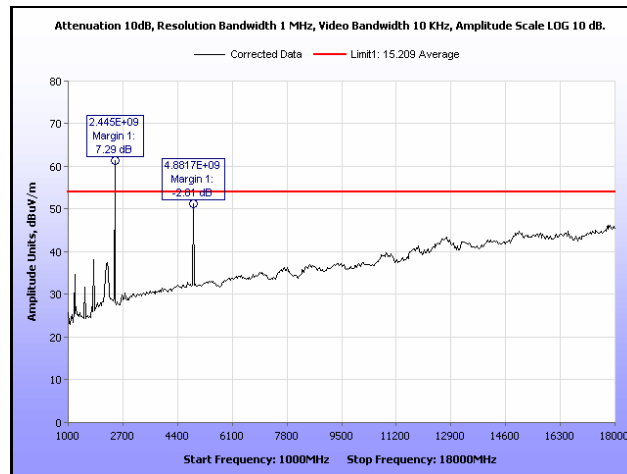
**Plot 352. Radiated Spurious Emissions, Low Channel, 802.11n 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**



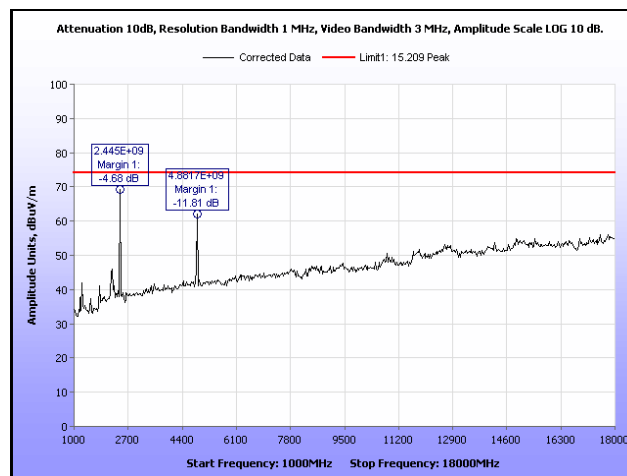
**Plot 353. Radiated Spurious Emissions, Low Channel, 802.11n 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**



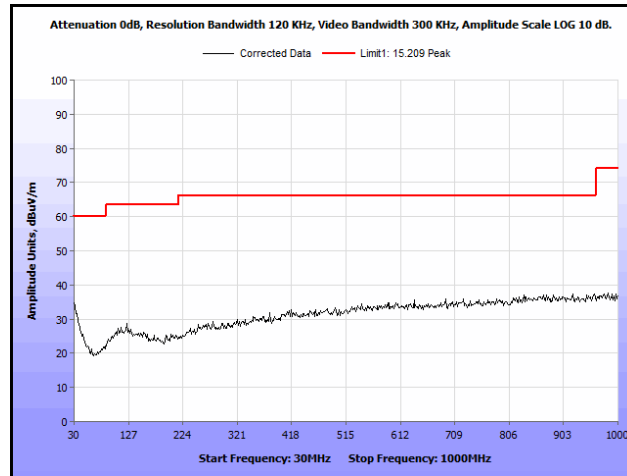
**Plot 354. Radiated Spurious Emissions, Mid Channel, 802.11n 5 MHz, Yagi Antenna, 30 MHz – 1 GHz**



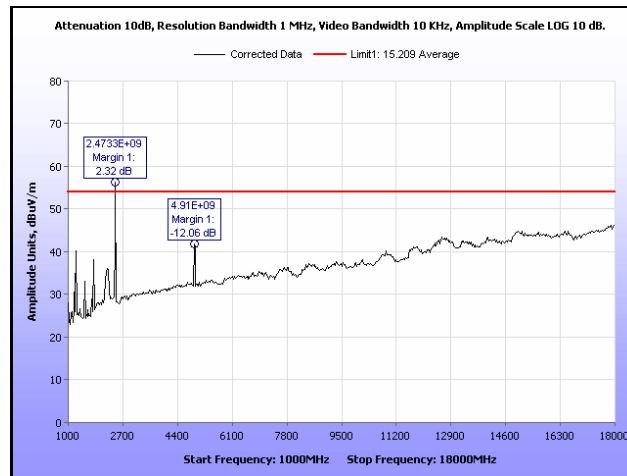
**Plot 355. Radiated Spurious Emissions, Mid Channel, 802.11n 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**



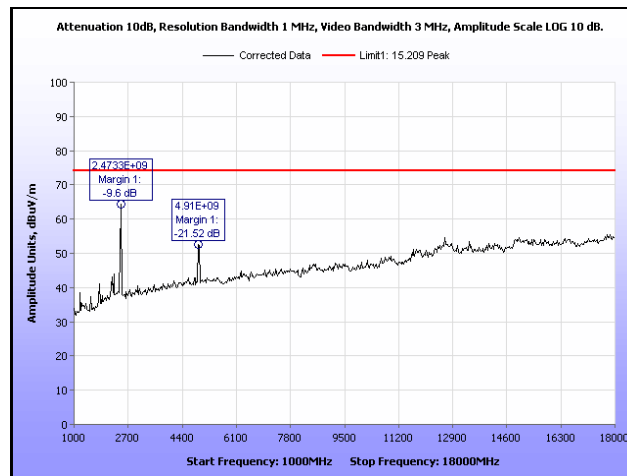
**Plot 356. Radiated Spurious Emissions, Mid Channel, 802.11n 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**



**Plot 357. Radiated Spurious Emissions, High Channel, 802.11n 5 MHz, Yagi Antenna, 30 MHz – 1 GHz**

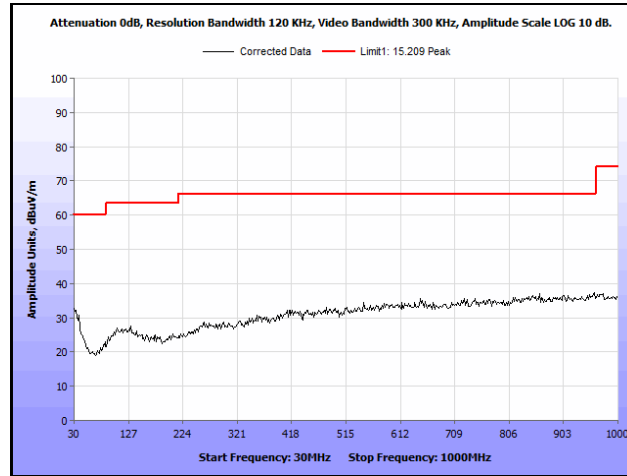


**Plot 358. Radiated Spurious Emissions, High Channel, 802.11n 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**

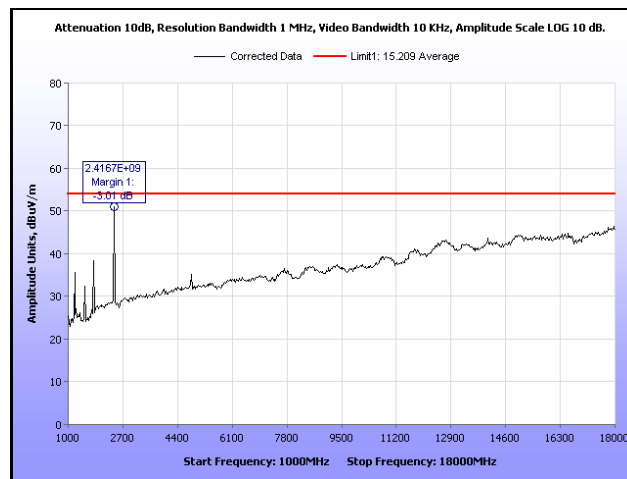


**Plot 359. Radiated Spurious Emissions, High Channel, 802.11n 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**

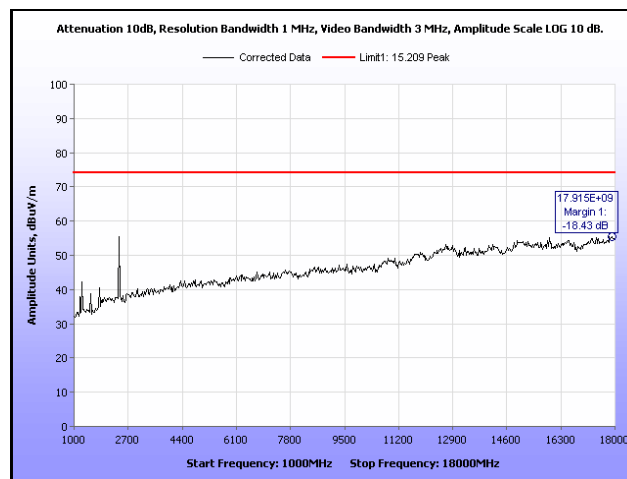
**Radiated Spurious Emissions Test Results, 802.11b 10 MHz, Yagi Antenna**



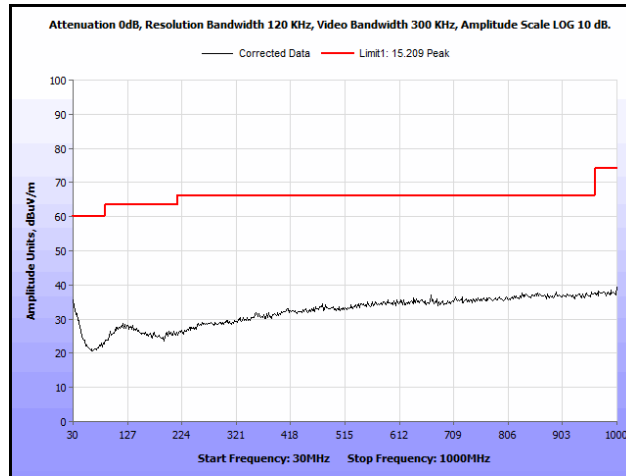
**Plot 360. Radiated Spurious Emissions, Low Channel, 802.11b 10 MHz, Yagi Antenna, 30 MHz – 1 GHz**



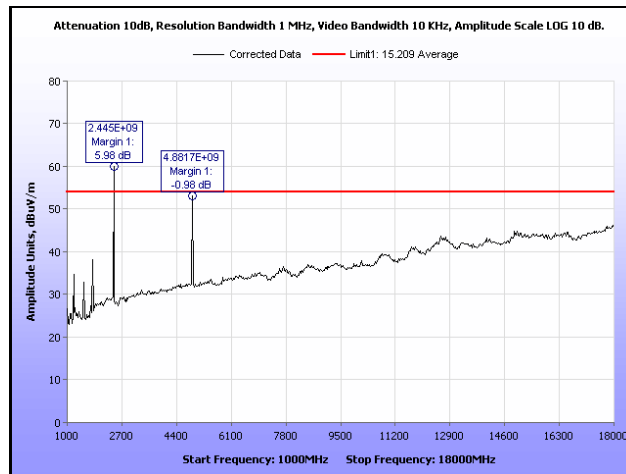
**Plot 361. Radiated Spurious Emissions, Low Channel, 802.11b 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**



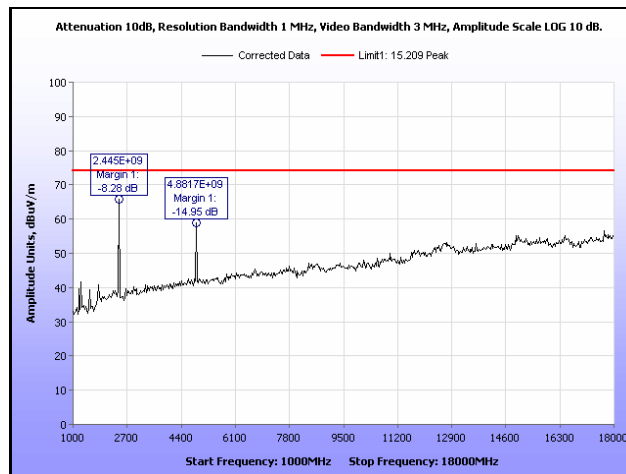
**Plot 362. Radiated Spurious Emissions, Low Channel, 802.11b 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**



**Plot 363. Radiated Spurious Emissions, Mid Channel, 802.11b 10 MHz, Yagi Antenna, 30 MHz – 1 GHz**

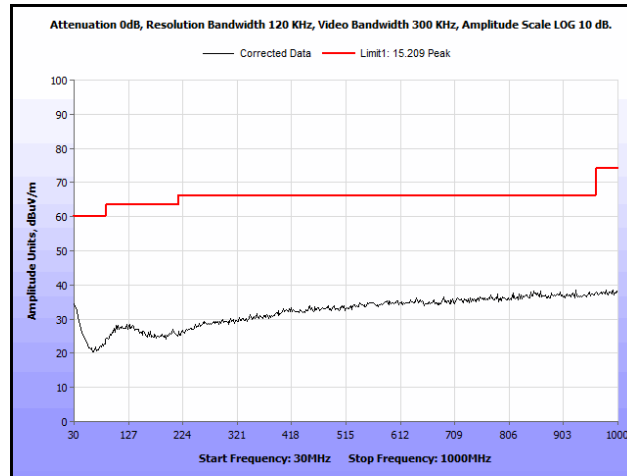


**Plot 364. Radiated Spurious Emissions, Mid Channel, 802.11b 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**

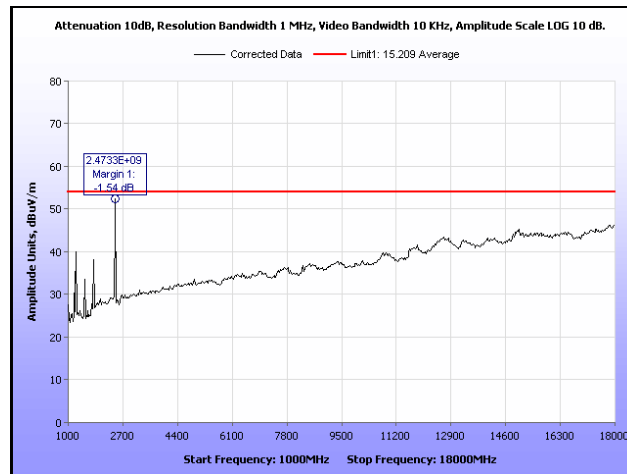


**Plot 365. Radiated Spurious Emissions, Mid Channel, 802.11b 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**

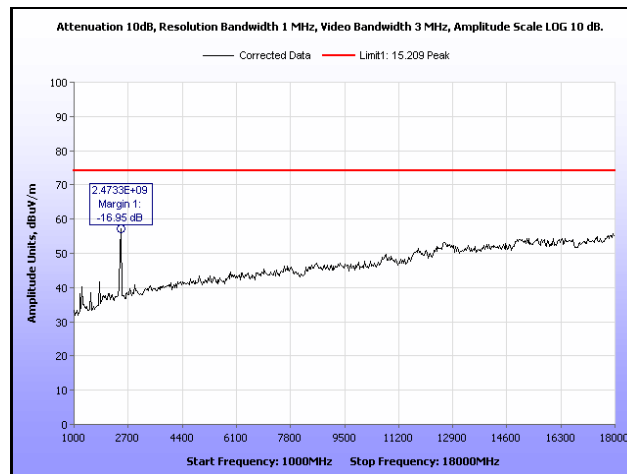




**Plot 366. Radiated Spurious Emissions, High Channel, 802.11b 10 MHz, Yagi Antenna, 30 MHz – 1 GHz**

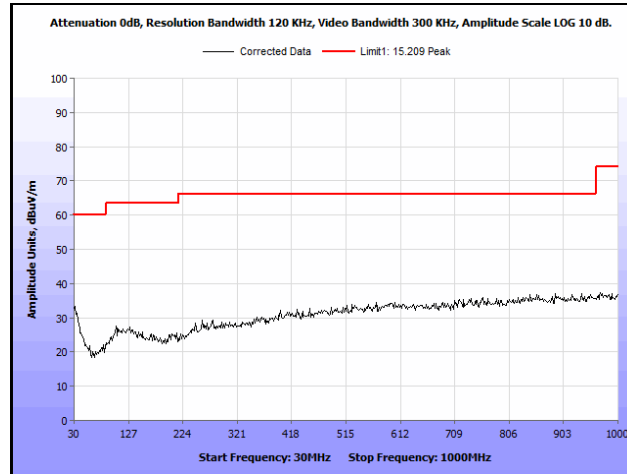


**Plot 367. Radiated Spurious Emissions, High Channel, 802.11b 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**

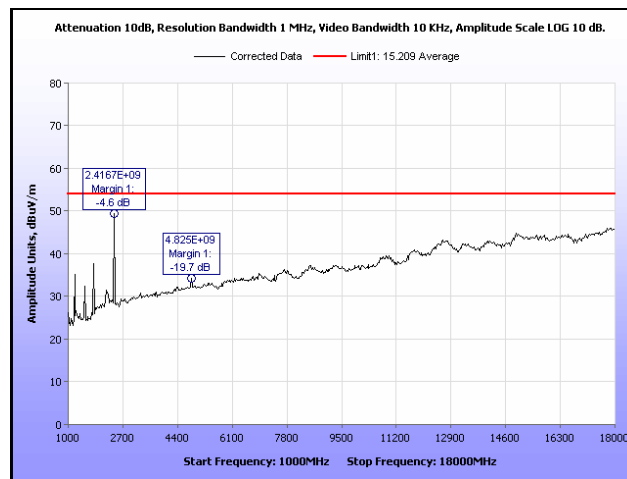


**Plot 368. Radiated Spurious Emissions, High Channel, 802.11b 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**

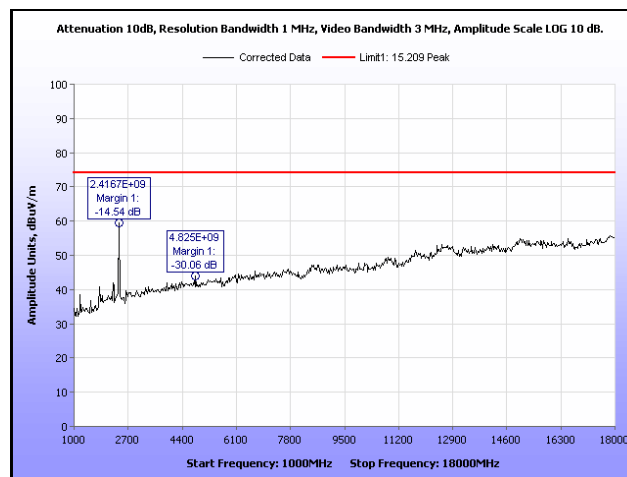
## Radiated Spurious Emissions Test Results, 802.11g 10 MHz, Yagi Antenna



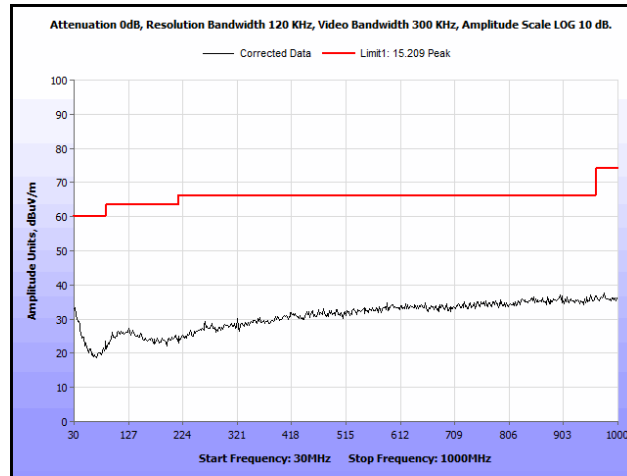
Plot 369. Radiated Spurious Emissions, Low Channel, 802.11g 10 MHz, Yagi Antenna, 30 MHz – 1 GHz



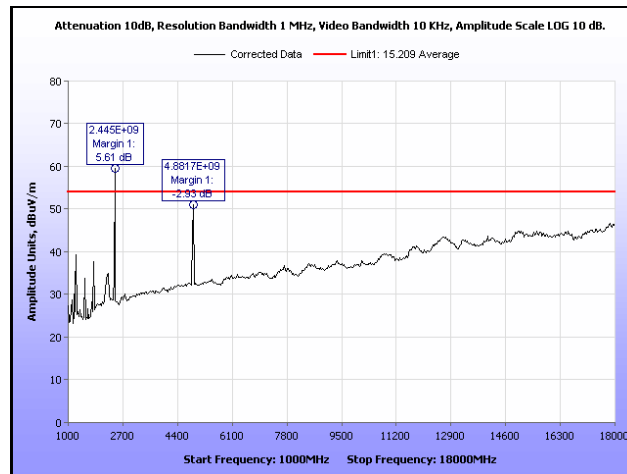
Plot 370. Radiated Spurious Emissions, Low Channel, 802.11g 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average



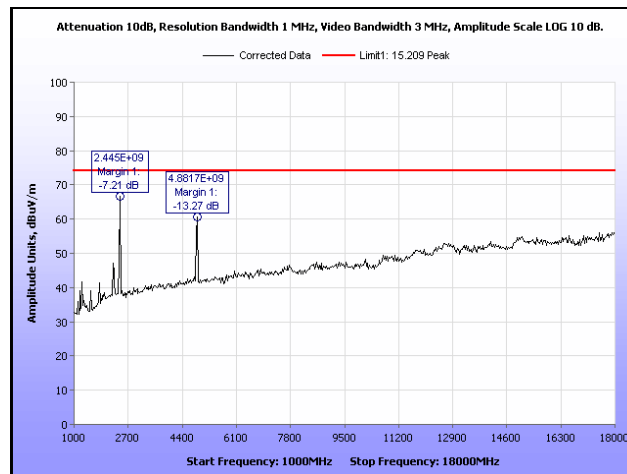
Plot 371. Radiated Spurious Emissions, Low Channel, 802.11g 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak



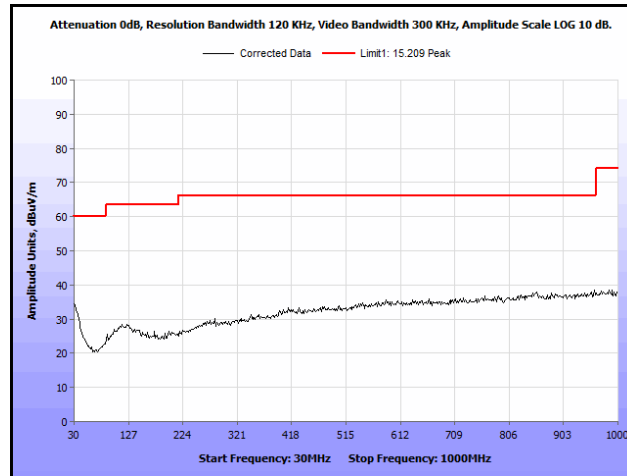
**Plot 372. Radiated Spurious Emissions, Mid Channel, 802.11g 10 MHz, Yagi Antenna, 30 MHz – 1 GHz**



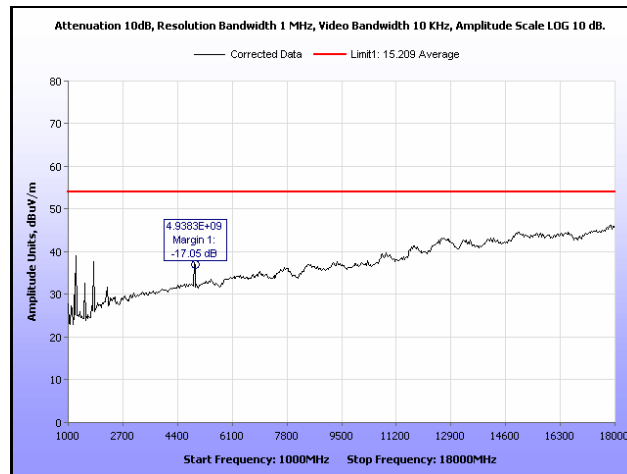
**Plot 373. Radiated Spurious Emissions, Mid Channel, 802.11g 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**



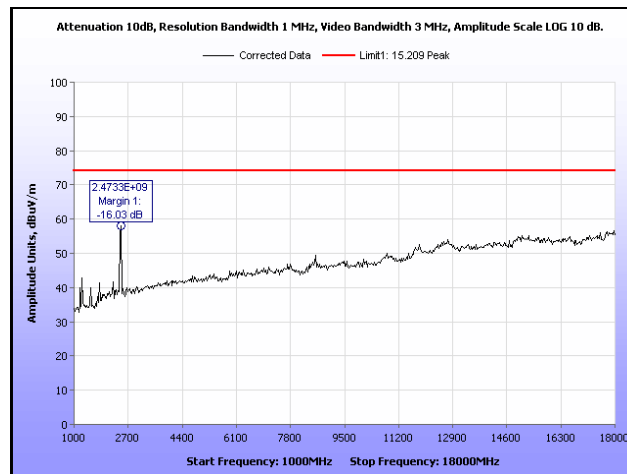
**Plot 374. Radiated Spurious Emissions, Mid Channel, 802.11g 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**



**Plot 375. Radiated Spurious Emissions, High Channel, 802.11g 10 MHz, Yagi Antenna, 30 MHz – 1 GHz**

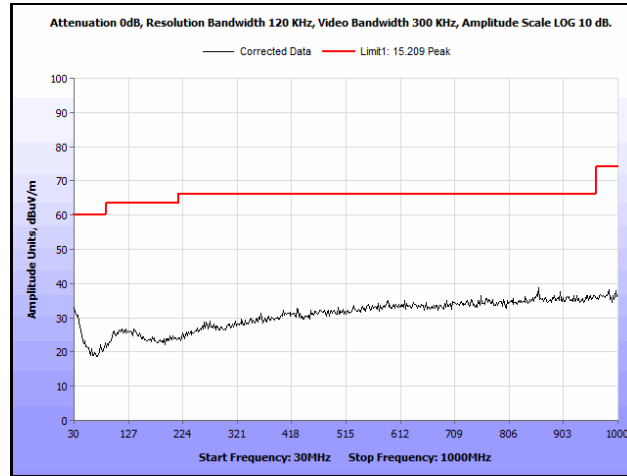


**Plot 376. Radiated Spurious Emissions, High Channel, 802.11g 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**

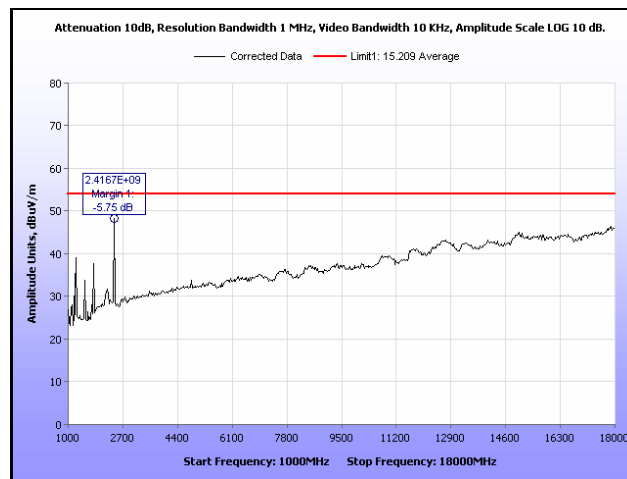


**Plot 377. Radiated Spurious Emissions, High Channel, 802.11g 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**

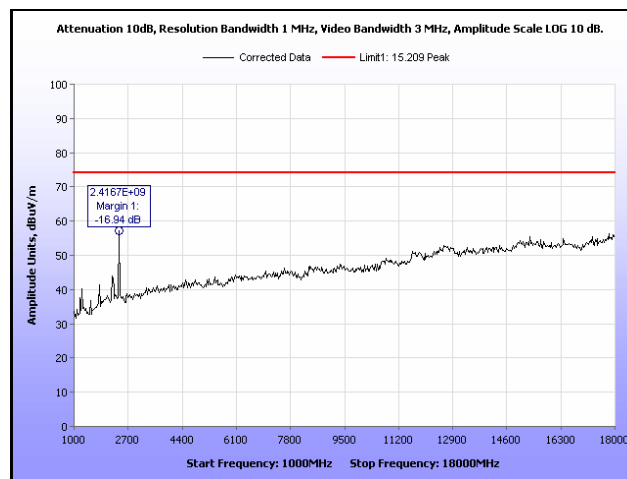
**Radiated Spurious Emissions Test Results, 802.11n 10 MHz, Yagi Antenna**



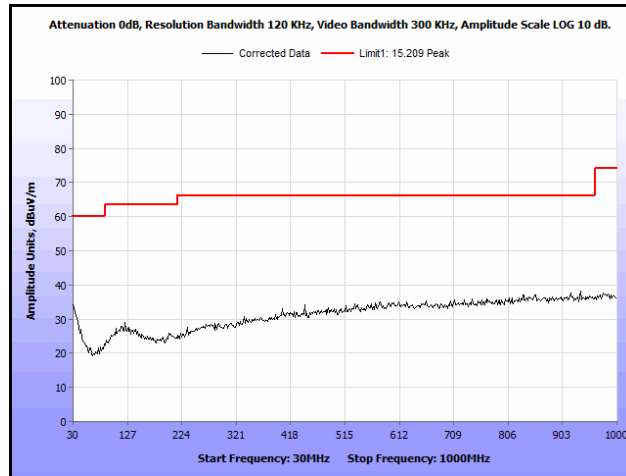
**Plot 378. Radiated Spurious Emissions, Low Channel, 802.11n 10 MHz, Yagi Antenna, 30 MHz – 1 GHz**



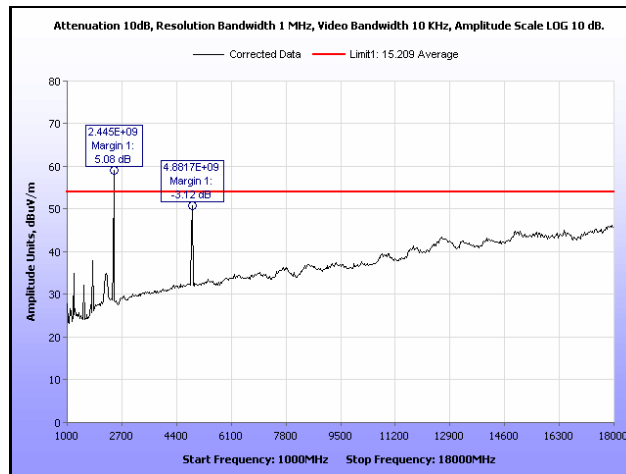
**Plot 379. Radiated Spurious Emissions, Low Channel, 802.11n 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**



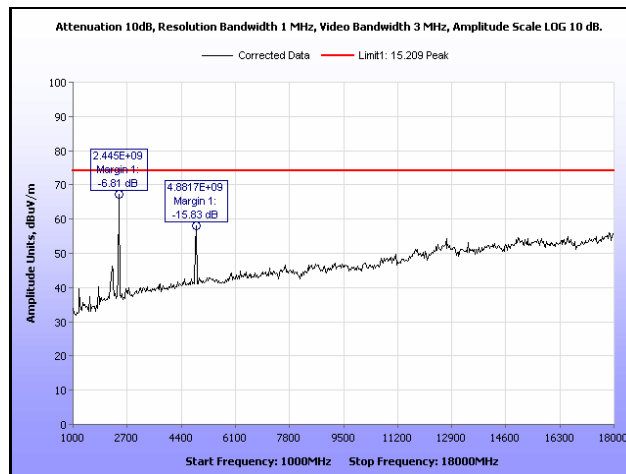
**Plot 380. Radiated Spurious Emissions, Low Channel, 802.11n 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**



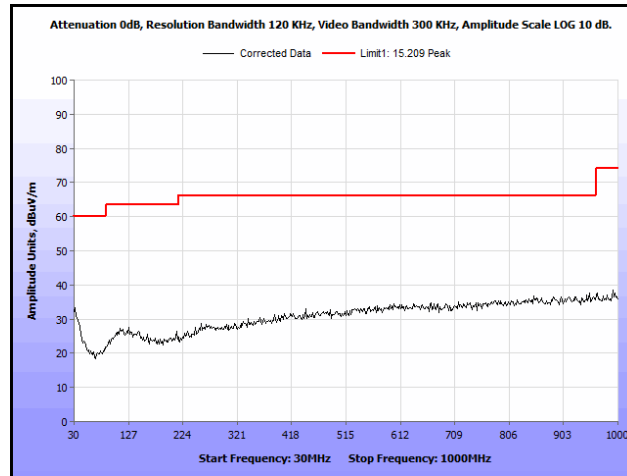
**Plot 381. Radiated Spurious Emissions, Mid Channel, 802.11n 10 MHz, Yagi Antenna, 30 MHz – 1 GHz**



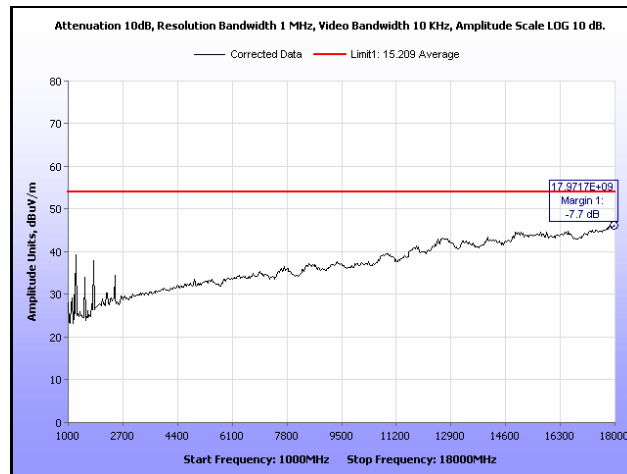
**Plot 382. Radiated Spurious Emissions, Mid Channel, 802.11n 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**



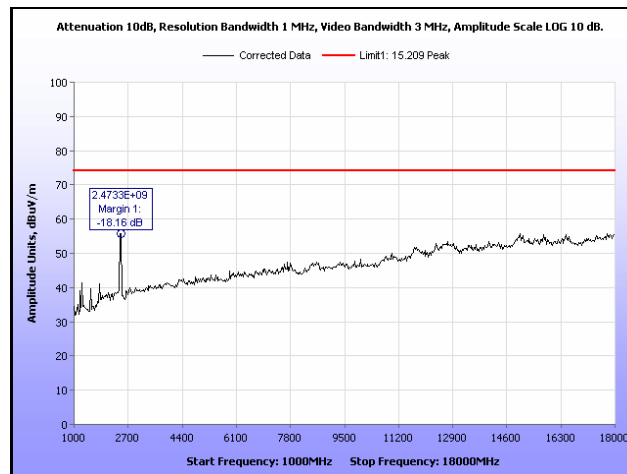
**Plot 383. Radiated Spurious Emissions, Mid Channel, 802.11n 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**



**Plot 384. Radiated Spurious Emissions, High Channel, 802.11n 10 MHz, Yagi Antenna, 30 MHz – 1 GHz**

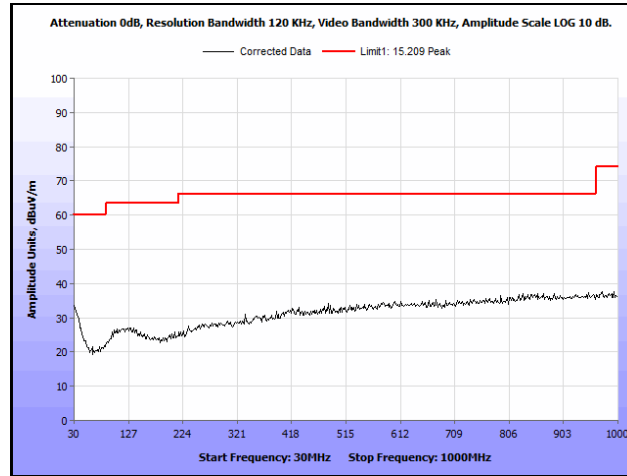


**Plot 385. Radiated Spurious Emissions, High Channel, 802.11n 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**

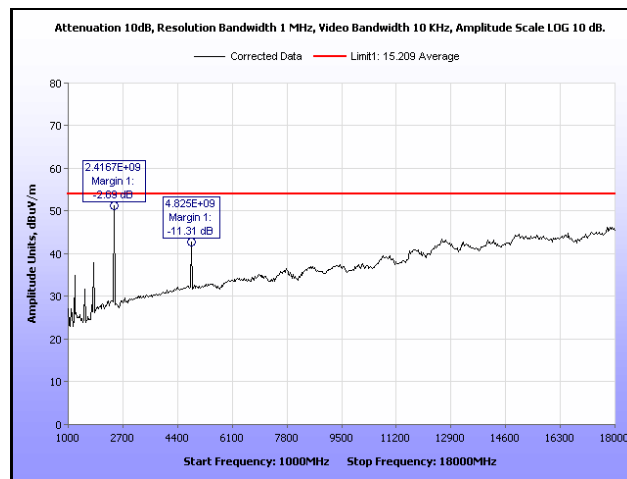


**Plot 386. Radiated Spurious Emissions, High Channel, 802.11n 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**

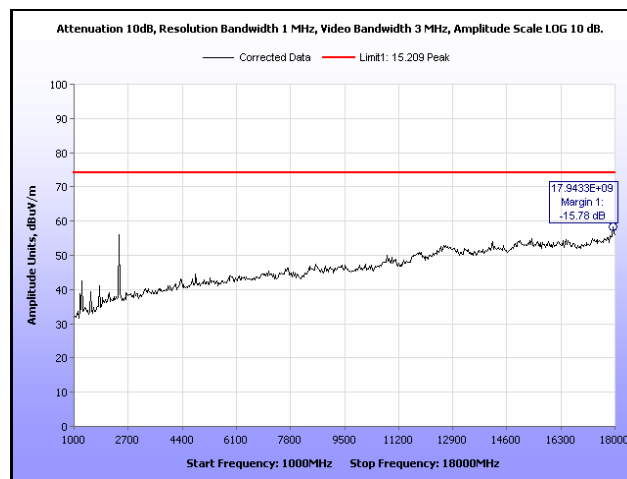
**Radiated Spurious Emissions Test Results, 802.11b 20 MHz, Yagi Antenna**



**Plot 387. Radiated Spurious Emissions, Low Channel, 802.11b 20 MHz, Yagi Antenna, 30 MHz – 1 GHz**

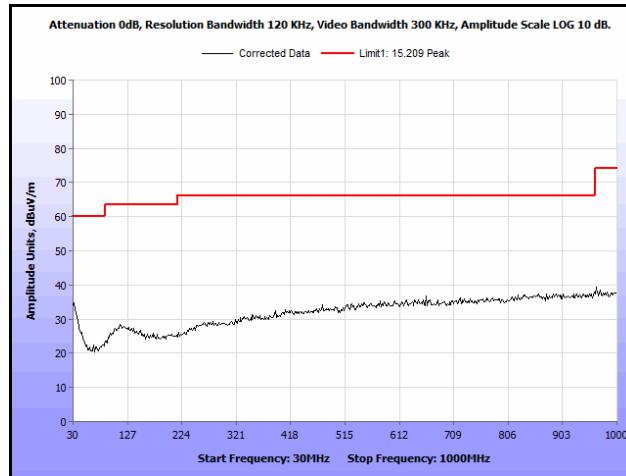


**Plot 388. Radiated Spurious Emissions, Low Channel, 802.11b 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**

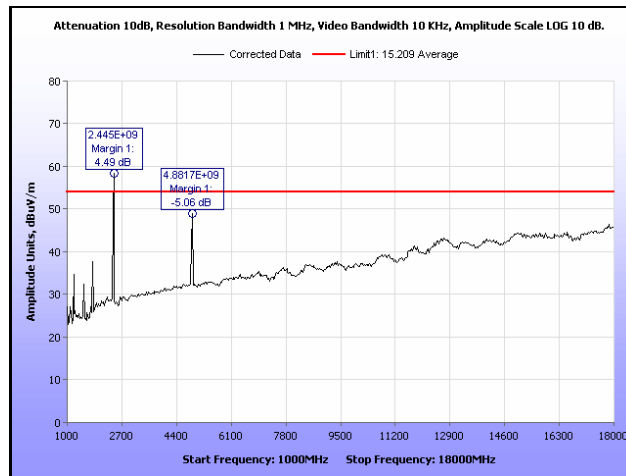


**Plot 389. Radiated Spurious Emissions, Low Channel, 802.11b 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**

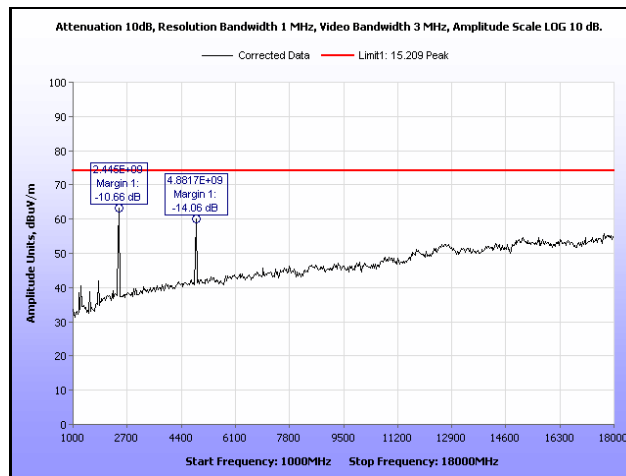




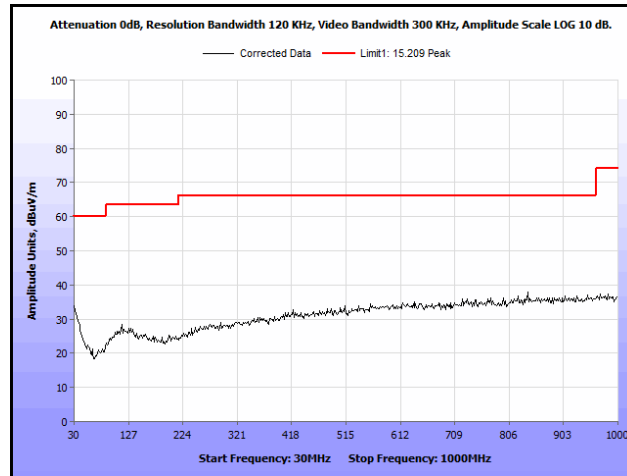
**Plot 390. Radiated Spurious Emissions, Mid Channel, 802.11b 20 MHz, Yagi Antenna, 30 MHz – 1 GHz**



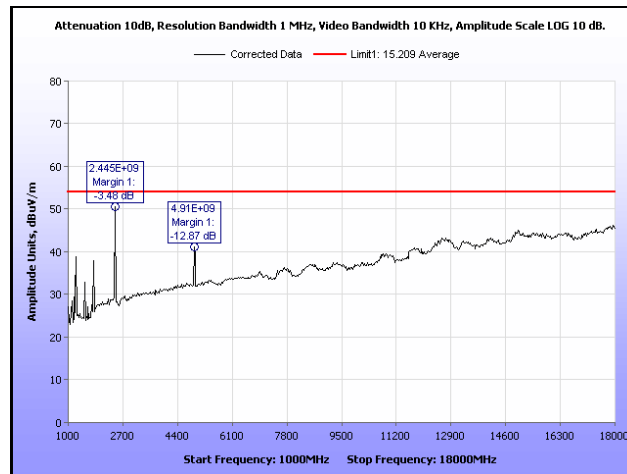
**Plot 391. Radiated Spurious Emissions, Mid Channel, 802.11b 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**



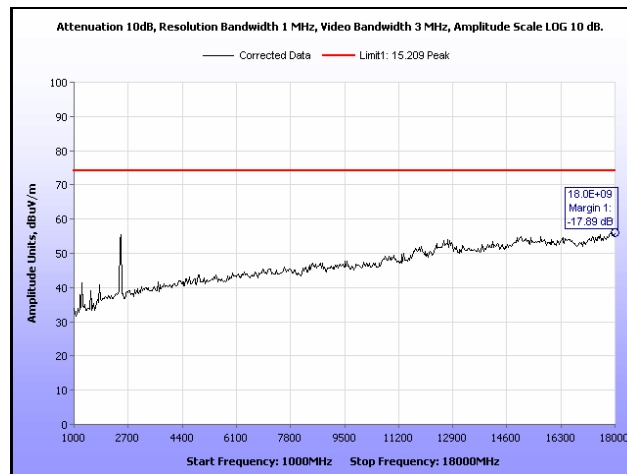
**Plot 392. Radiated Spurious Emissions, Mid Channel, 802.11b 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**



**Plot 393. Radiated Spurious Emissions, High Channel, 802.11b 20 MHz, Yagi Antenna, 30 MHz – 1 GHz**

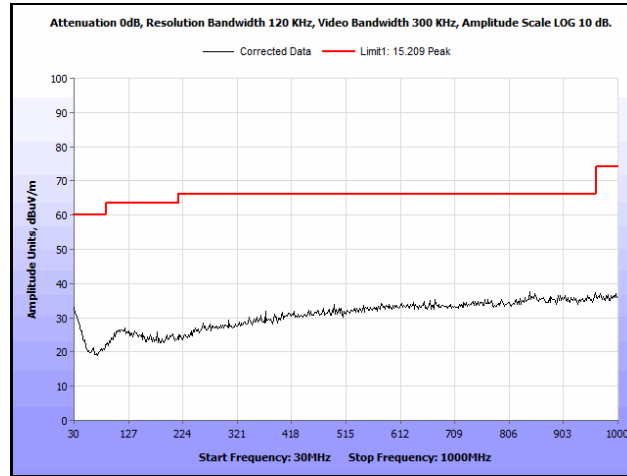


**Plot 394. Radiated Spurious Emissions, High Channel, 802.11b 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**

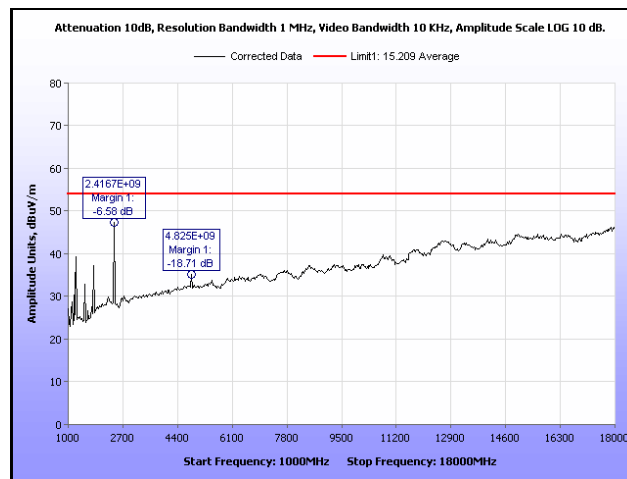


**Plot 395. Radiated Spurious Emissions, High Channel, 802.11b 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**

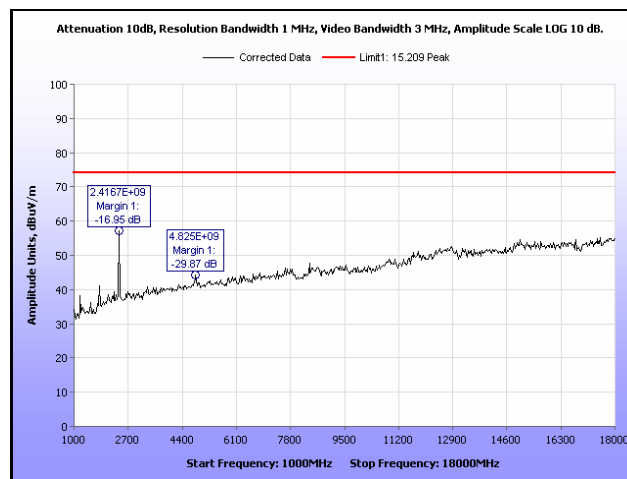
**Radiated Spurious Emissions Test Results, 802.11g 20 MHz, Yagi Antenna**



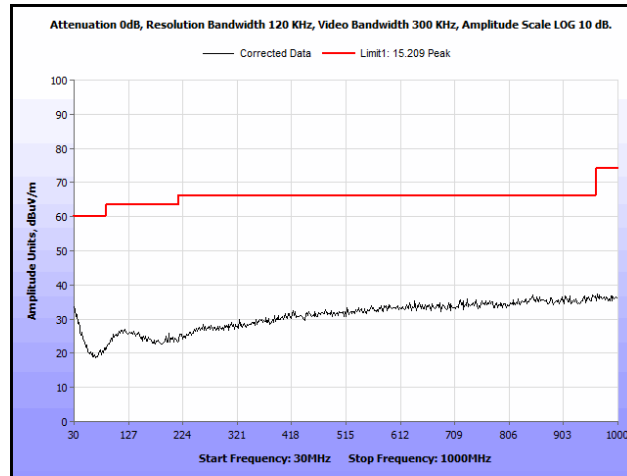
**Plot 396. Radiated Spurious Emissions, Low Channel, 802.11g 20 MHz, Yagi Antenna, 30 MHz – 1 GHz**



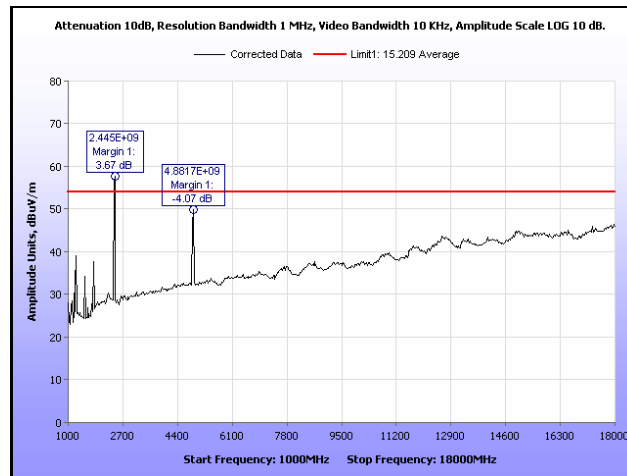
**Plot 397. Radiated Spurious Emissions, Low Channel, 802.11g 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**



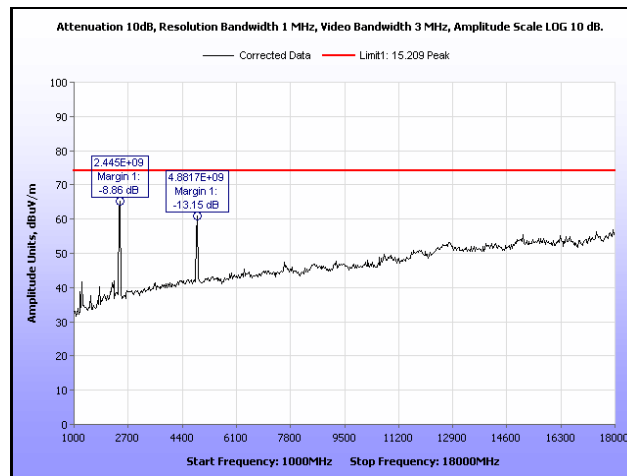
**Plot 398. Radiated Spurious Emissions, Low Channel, 802.11g 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**



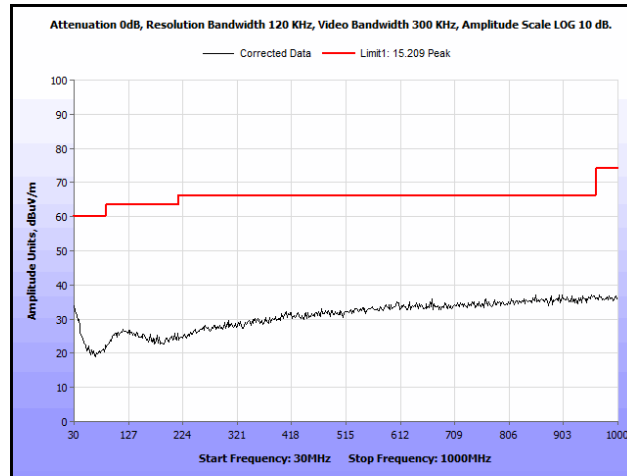
**Plot 399. Radiated Spurious Emissions, Mid Channel, 802.11g 20 MHz, Yagi Antenna, 30 MHz – 1 GHz**



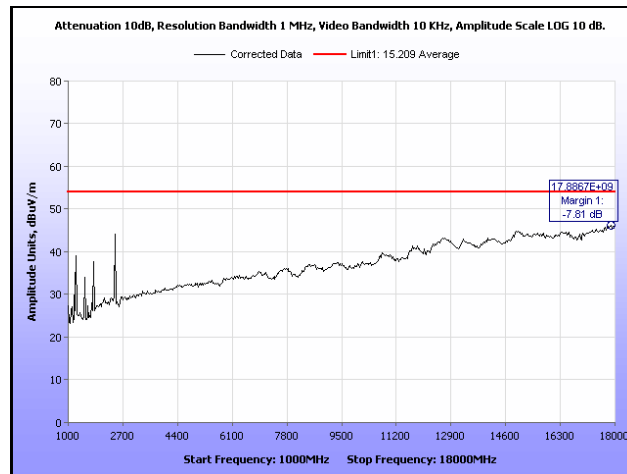
**Plot 400. Radiated Spurious Emissions, Mid Channel, 802.11g 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**



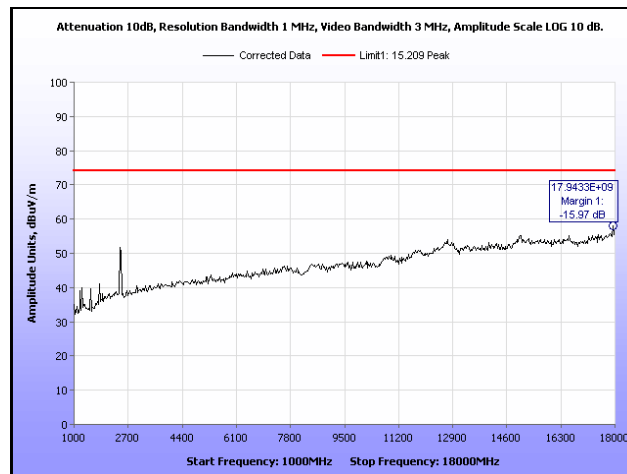
**Plot 401. Radiated Spurious Emissions, Mid Channel, 802.11g 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**



**Plot 402. Radiated Spurious Emissions, High Channel, 802.11g 20 MHz, Yagi Antenna, 30 MHz – 1 GHz**

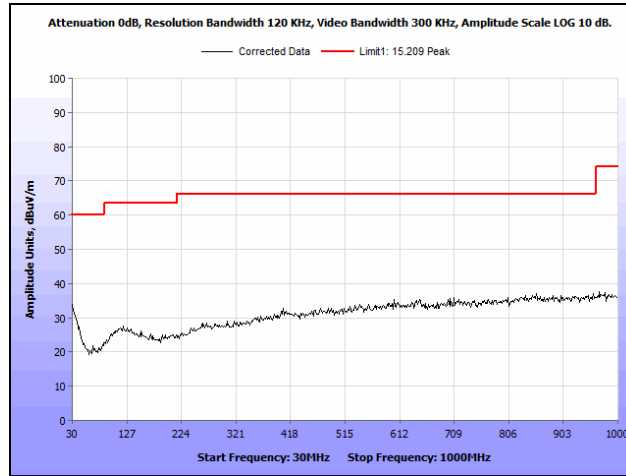


**Plot 403. Radiated Spurious Emissions, High Channel, 802.11g 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**

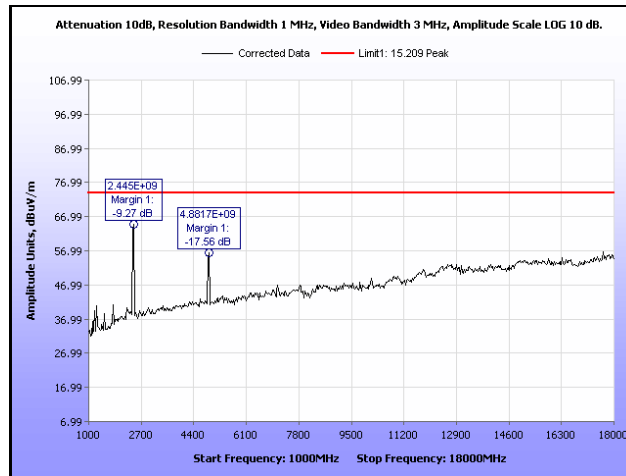


**Plot 404. Radiated Spurious Emissions, High Channel, 802.11g 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**

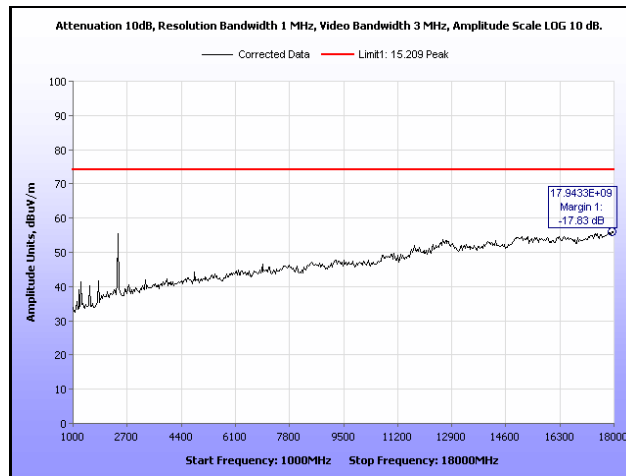
**Radiated Spurious Emissions Test Results, 802.11n 20 MHz, Yagi Antenna**



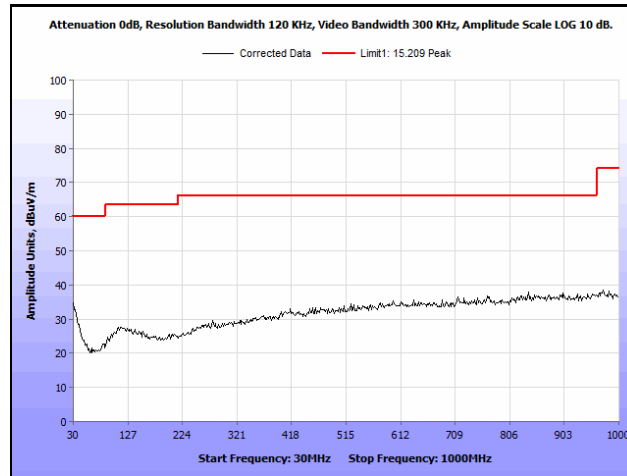
**Plot 405. Radiated Spurious Emissions, Low Channel, 802.11n 20 MHz, Yagi Antenna, 30 MHz – 1 GHz**



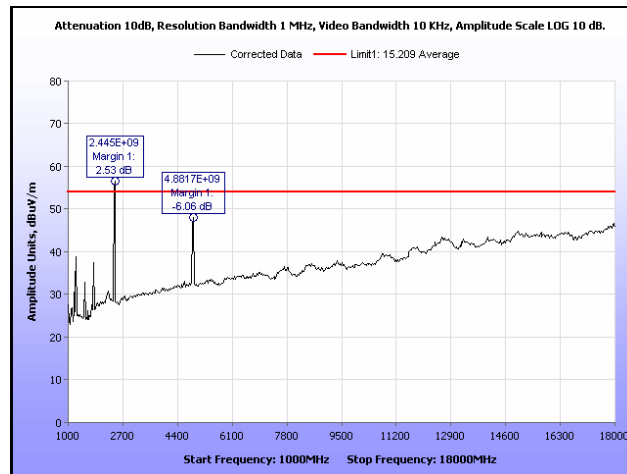
**Plot 406. Radiated Spurious Emissions, Low Channel, 802.11n 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**



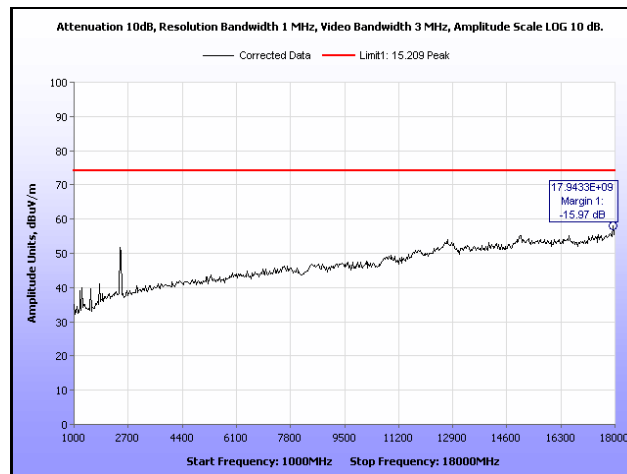
**Plot 407. Radiated Spurious Emissions, Low Channel, 802.11n 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**



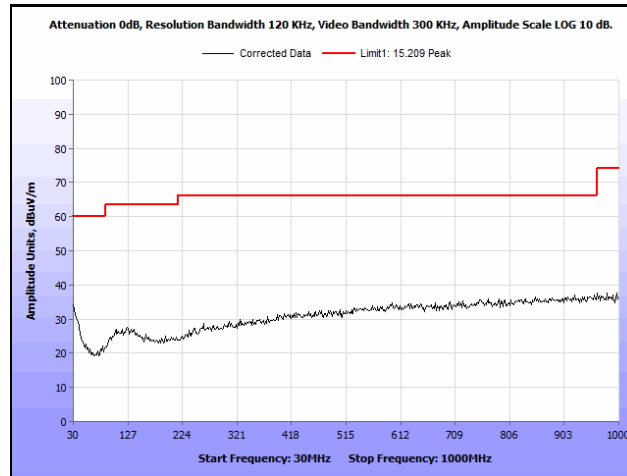
**Plot 408. Radiated Spurious Emissions, Mid Channel, 802.11n 20 MHz, Yagi Antenna, 30 MHz – 1 GHz**



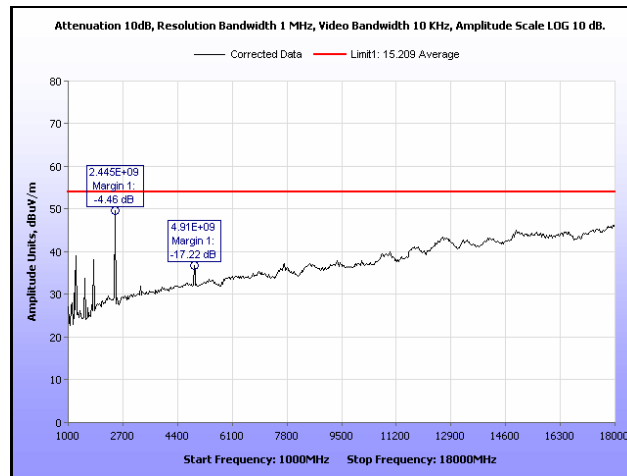
**Plot 409. Radiated Spurious Emissions, Mid Channel, 802.11n 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**



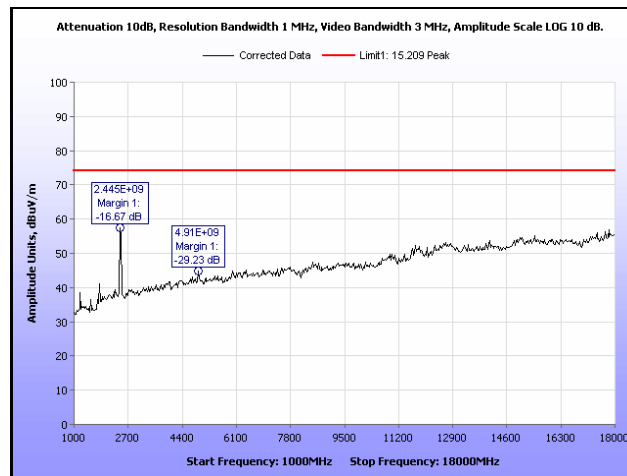
**Plot 410. Radiated Spurious Emissions, Mid Channel, 802.11n 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**



**Plot 411. Radiated Spurious Emissions, High Channel, 802.11n 20 MHz, Yagi Antenna, 30 MHz – 1 GHz**



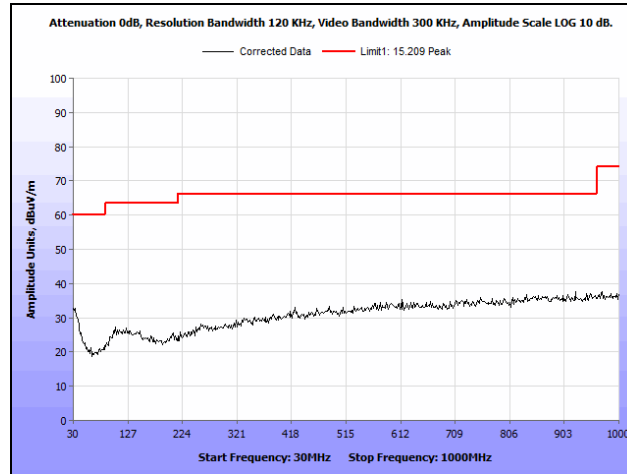
**Plot 412. Radiated Spurious Emissions, High Channel, 802.11n 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**



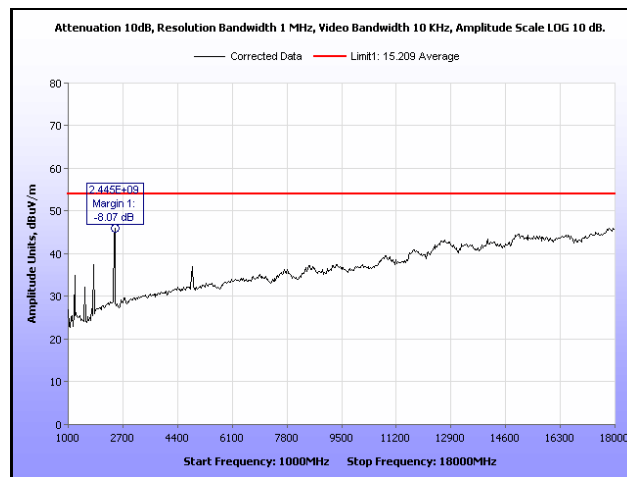
**Plot 413. Radiated Spurious Emissions, High Channel, 802.11n 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**



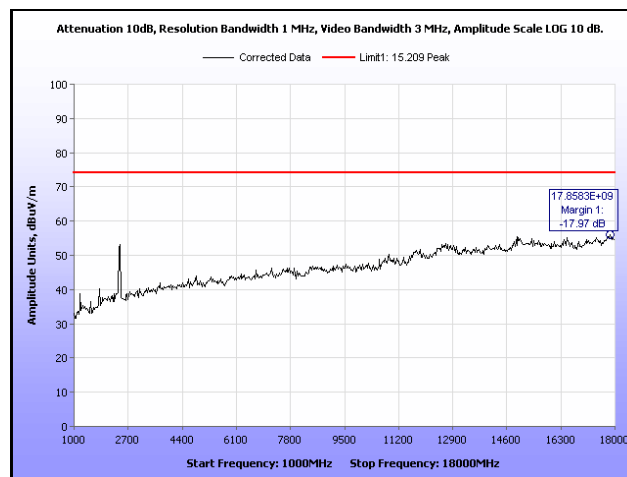
**Radiated Spurious Emissions Test Results, 802.11g 40 MHz, Yagi Antenna**



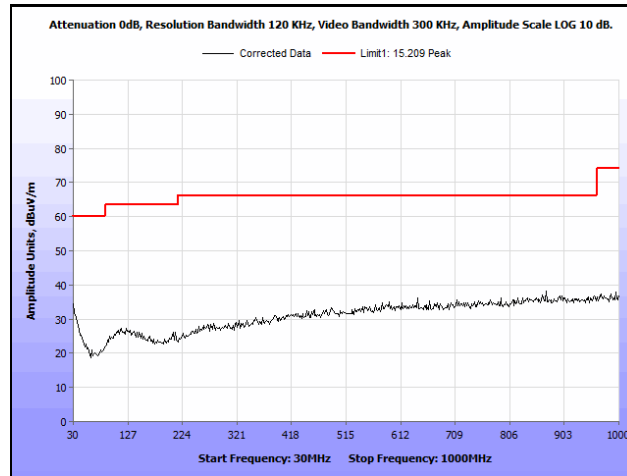
**Plot 414. Radiated Spurious Emissions, Low Channel, 802.11g 40 MHz, Yagi Antenna, 30 MHz – 1 GHz**



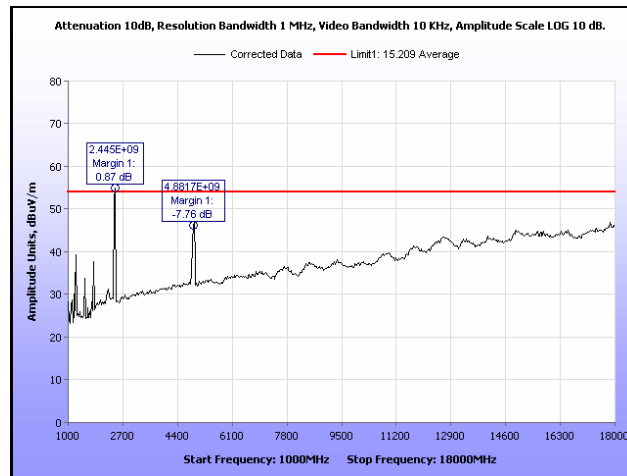
**Plot 415. Radiated Spurious Emissions, Low Channel, 802.11g 40 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**



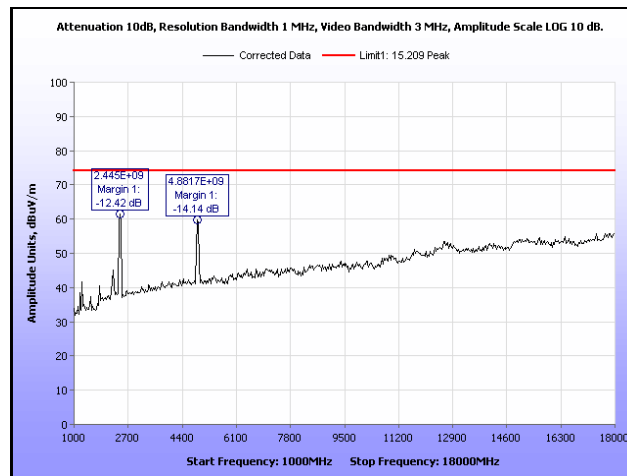
**Plot 416. Radiated Spurious Emissions, Low Channel, 802.11g 40 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**



**Plot 417. Radiated Spurious Emissions, Mid Channel, 802.11g 40 MHz, Yagi Antenna, 30 MHz – 1 GHz**



**Plot 418. Radiated Spurious Emissions, Mid Channel, 802.11g 40 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average**



**Plot 419. Radiated Spurious Emissions, Mid Channel, 802.11g 40 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak**