MET Laboratories, Inc. *Safety Certification - EMI - Telecom Environmental Simulation*
914 WEST PATAPSCO AVENUE • BALTIMORE, MARYLAND 21230-3432 • PHONE (410) 354-3300 • FAX (410) 354-3313
33439 WESTERN AVENUE • UNION CITY, CALIFORNIA 94587 • PHONE (510) 489-6300 • FAX (510) 489-6372
3162 BELICK STREET • SANTA CLARA, CA 95054 • PHONE (408) 748-3585 • FAX (510) 489-6372
13501 MCCALLEN PASS • AUSTIN, TEXAS 78753 • PHONE (512) 287-2500 • FAX (512) 287-2513

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)

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

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

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.

Table of Contents

List of Tables

List of Plots

List of Figures

List of Photographs

List of Terms and Abbreviations

AC	**A**lternating **C**urrent
ACF	**A**ntenna **C**orrection **F**actor
Cal	**Cal**ibration
d	**M**easurement **D**istance
dB	**D**eci**b**els
dBµA	**D**eci**b**els above one **micro**amp
dBµV	**D**eci**b**els above one **micro**volt
dBµA/m	**D**eci**b**els above one **micro**amp **per m**eter
dBµV/m	**D**eci**b**els above one **micro**volt **per m**eter
DC	**D**irect **C**urrent
E	**E**lectric Field
DSL	**D**igital **S**ubscriber **L**ine
ESD	**E**lectro**s**tatic **D**ischarge
EUT	**E**quipment **U**nder **T**est
f	**F**requency
FCC	**F**ederal **C**ommunications **C**ommission
GRP	**G**round **R**eference **P**lane
H	Magnetic Field
HCP	**H**orizontal **C**oupling **P**lane
Hz	**H**ert**z**
IEC	**I**nternational **E**lectrotechnical **C**ommission
kHz	**k**ilo**h**ert**z**
kPa	**k**ilo**pa**scal
kV	**k**ilo**v**olt
LISN	**L**ine **I**mpedance **S**tabilization **N**etwork
MHz	**M**ega**h**ertz
µH	**microh**enry
µ	**microf**arad
µs	**micros**econds
NEBS	**N**etwork **E**quipment-**B**uilding **S**ystem
PRF	**P**ulse **R**epetition **F**requency
RF	**R**adio **F**requency
RMS	**R**oot-**M**ean-**S**quare
TWT	**T**raveling **W**ave **T**ube
V/m	**V**olts **per m**eter
VCP	**V**ertical **C**oupling **P**lane

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 ComplianceTesting

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.

Model(s) Tested:	Horizon / 216AN	
Model(s) Covered:	Horizon / 216AN	
EUT Specifications:	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
Analysis:	The results obtained relate only to the item(s) tested.	
Environmental Test Conditions:	Temperature: 15-35º C	
	Relative Humidity: 30-60%	
	Barometric Pressure: 860-1060 mbar	
Evaluated by:	Arsalan Hasan	
Report Date(s):	May 3, 2016	

Table 2. EUT Summary Table

B. References

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

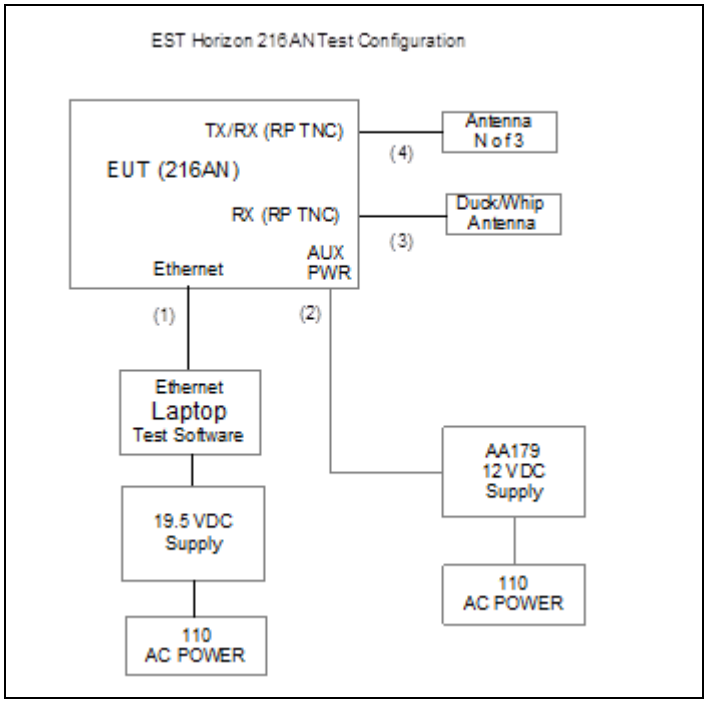


Figure 1. Block Diagram of Test Configuration

Note: The three different antennas are place 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 μH/50 Σ 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 (dBμV)	
	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 Ω/50 μH 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 Ω/50 μH 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.

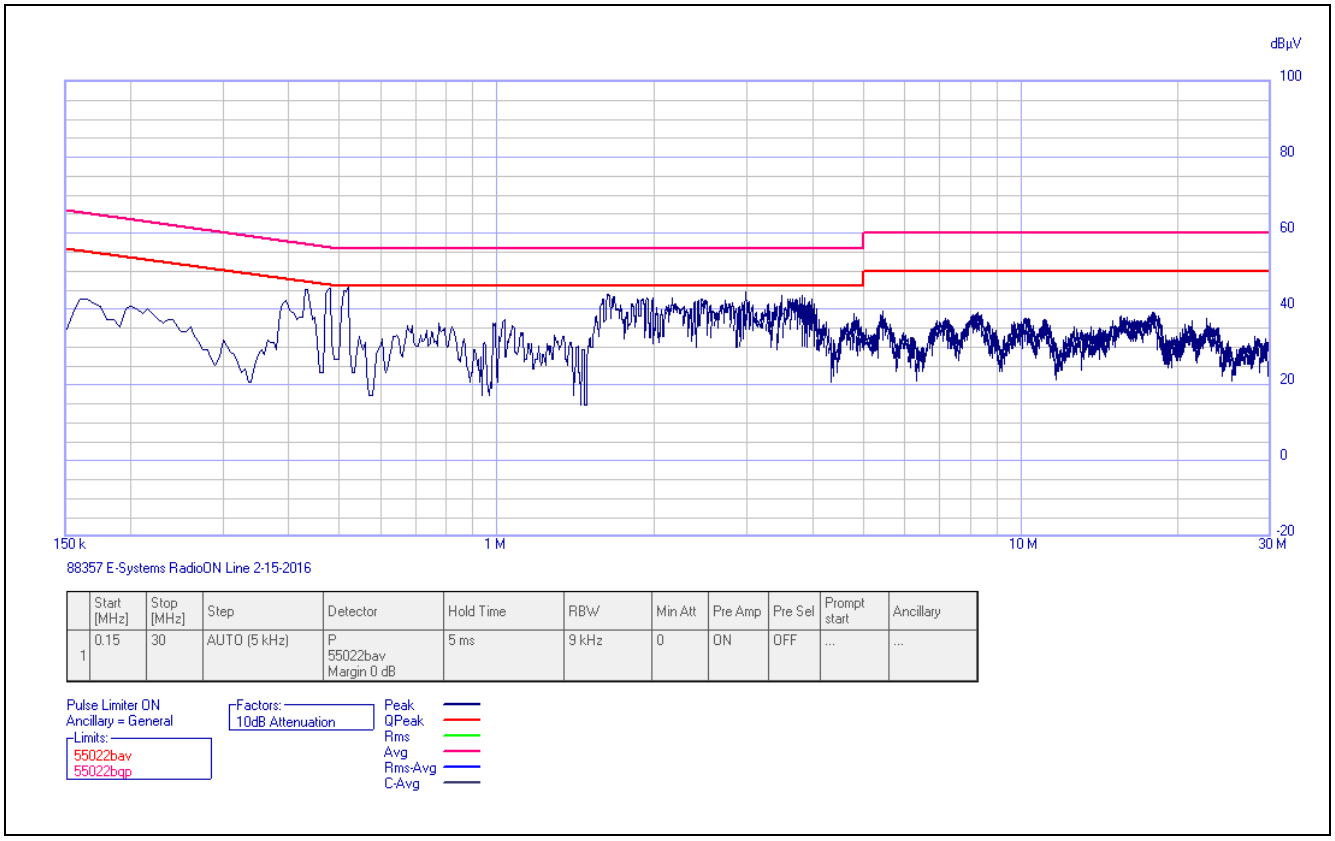
Test Engineer(s): Arsalan Hasan

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

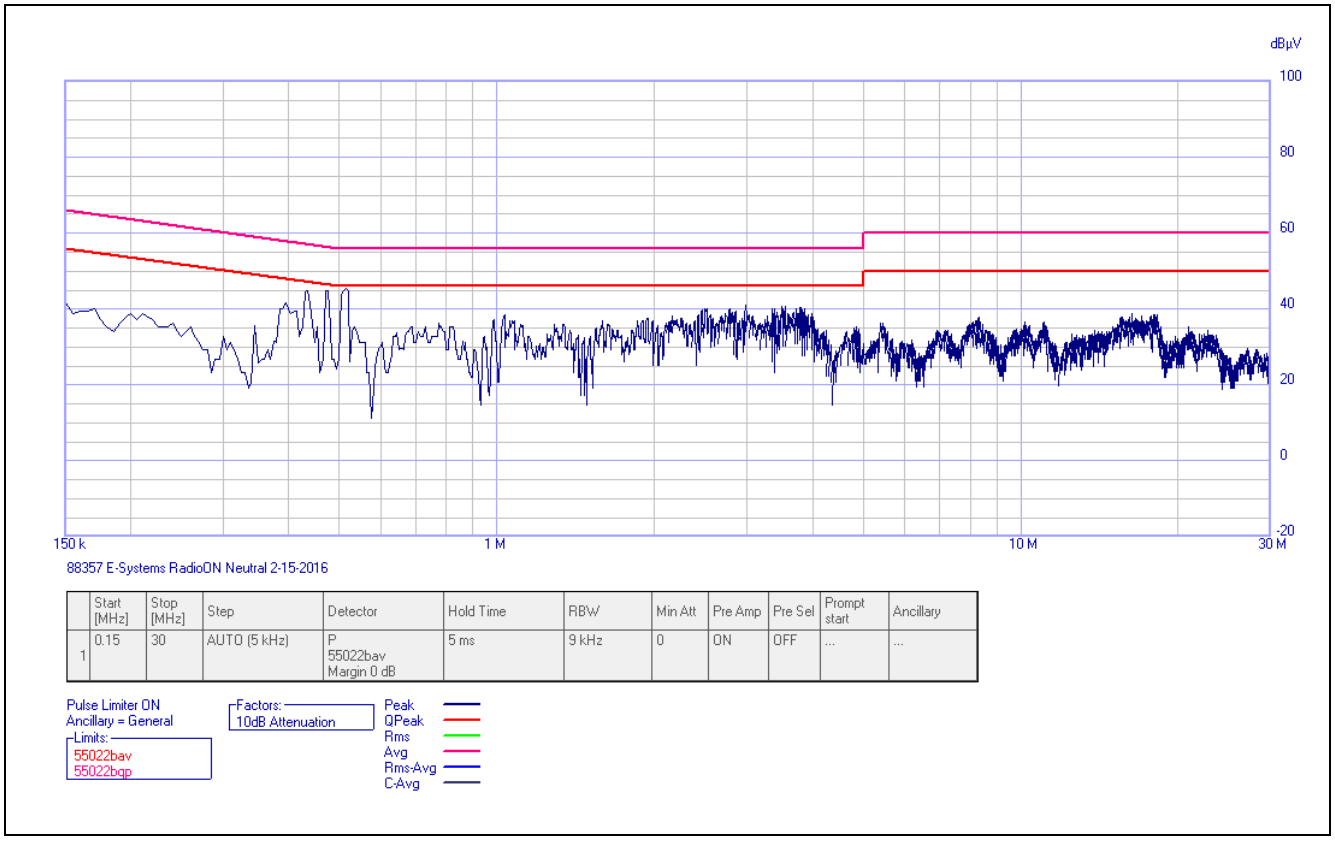


Plot 1. Conducted Emissions, 15.207(a), Phase Line, Radio On

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

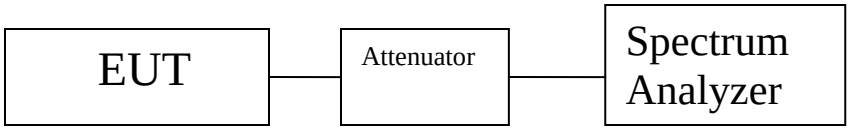


Figure 2. Block Diagram, Occupied Bandwidth Test Setup

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

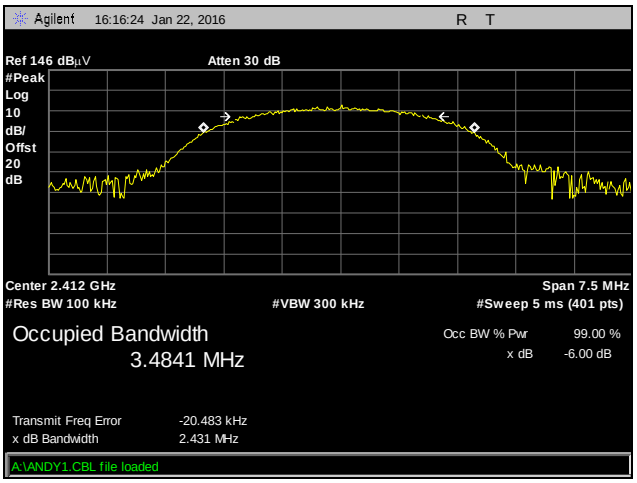
Occupied Bandwidth			
Mode	**Carrier Channel**	**Frequency (MHz)**	**Measured 6 dB Bandwidth (MHz)**
802.11b	Low	2412	10.524
	Mid	2437	10.529
	High	2462	9.803
802.11g	Low	2412	16.451
	Mid	2437	16.457
	High	2462	16.442
802.11n	Low	2412	17.609
	Mid	2437	17.084
	High	2462	17.065

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

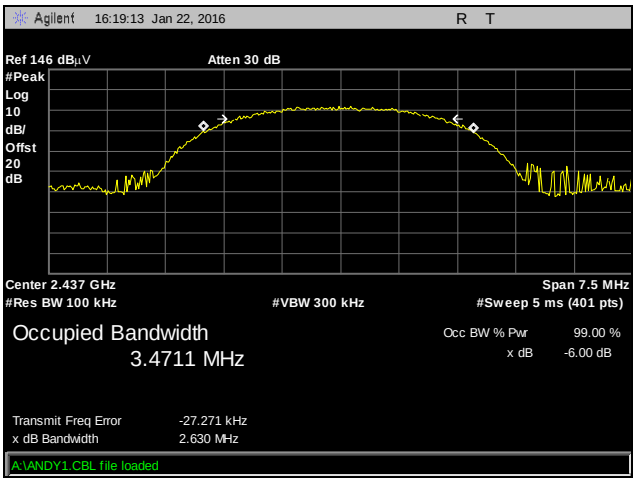
Occupied Bandwidth			
Mode	**Carrier Channel**	**Frequency (MHz)**	**Measured 6 dB Bandwidth (MHz)**
802.11g	Low	2422	36.480
	Mid	2447	36.095
	High	2452	36.406
802.11n	Low	2422	36.210
	Mid	2447	36.457
	High	2452	36.514

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

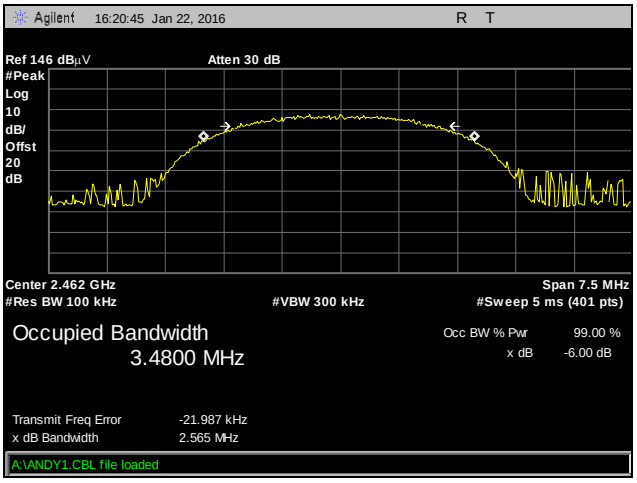
6 dB Occupied Bandwidth Test Results, 802.11b 5 MHz



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

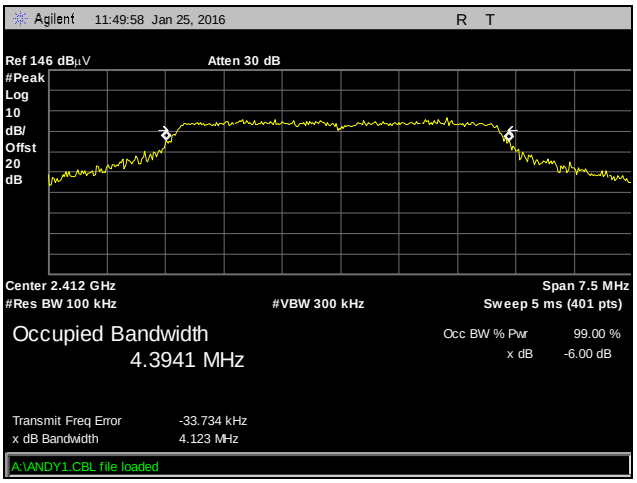


Plot 4. 6 dB Occupied Bandwidth, Mid Channel, 802.11b 5 MHz

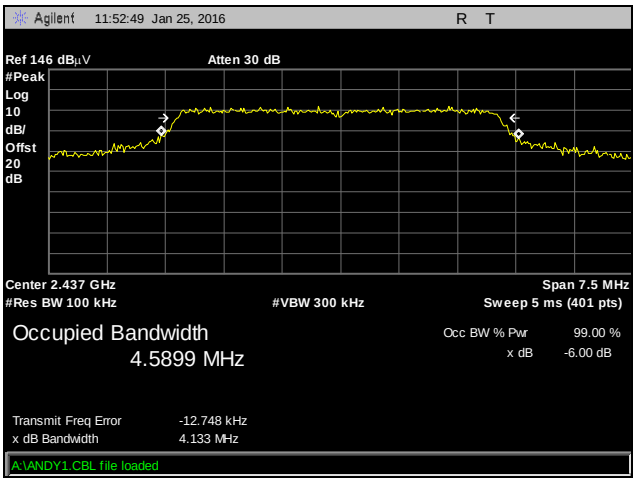


Plot 5. 6 dB Occupied Bandwidth, High Channel, 802.11b 5 MHz

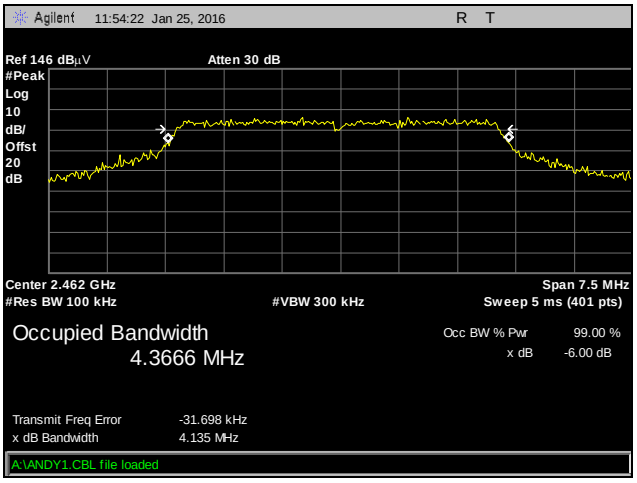
6 dB Occupied Bandwidth Test Results, 802.11g 5 MHz



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

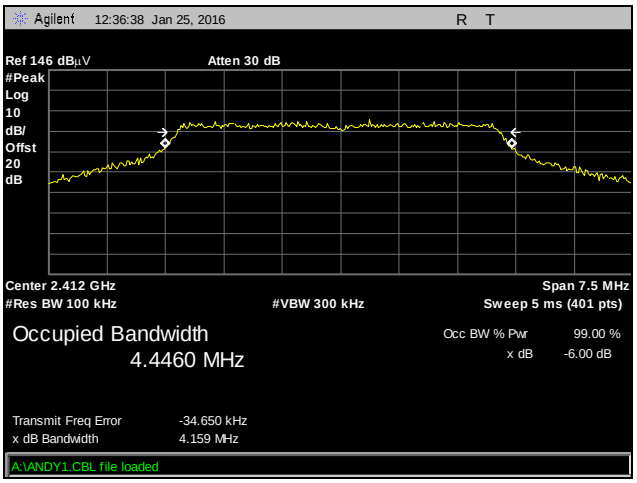


Plot 7. 6 dB Occupied Bandwidth, Mid Channel, 802.11g 5 MHz

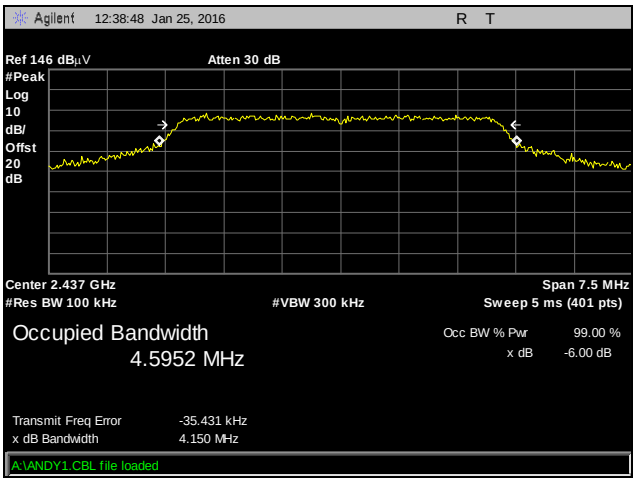


Plot 8. 6 dB Occupied Bandwidth, High Channel, 802.11g 5 MHz

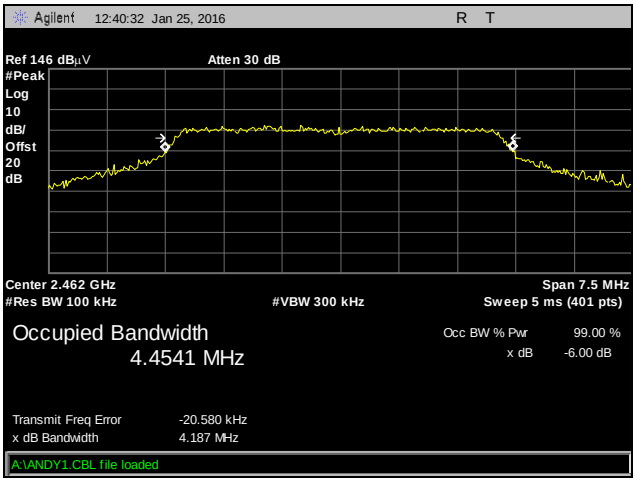
6 dB Occupied Bandwidth Test Results, 802.11n 5 MHz



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

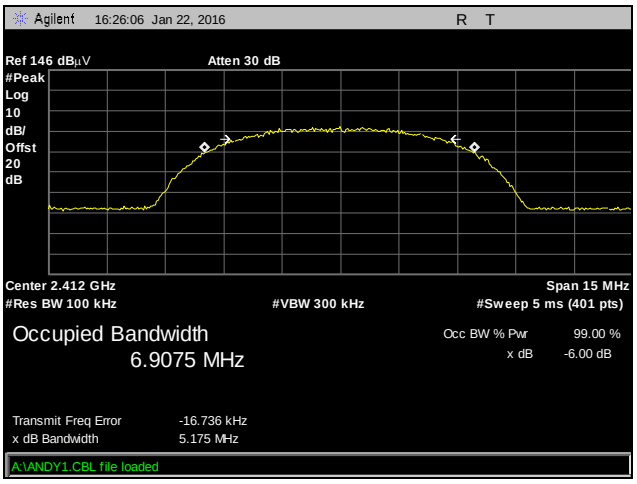


Plot 10. 6 dB Occupied Bandwidth, Mid Channel, 802.11n 5 MHz

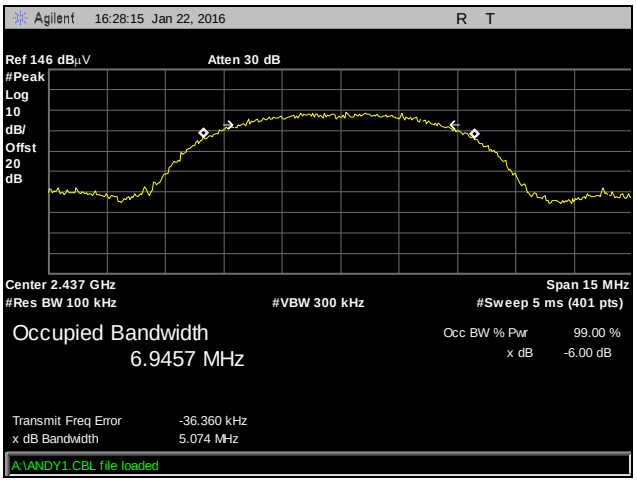


Plot 11. 6 dB Occupied Bandwidth, High Channel, 802.11n 5 MHz

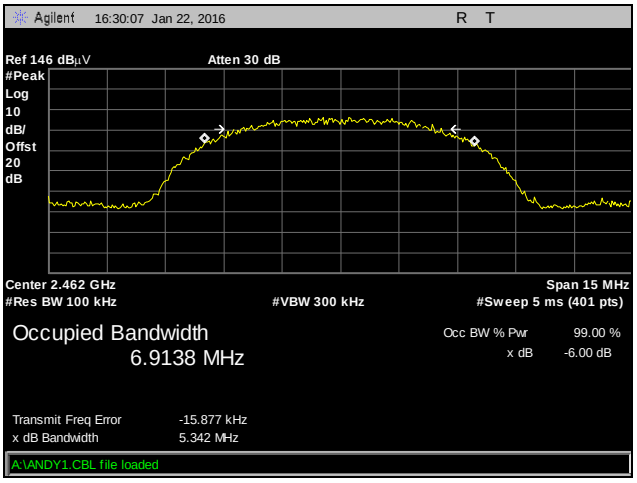
6 dB Occupied Bandwidth Test Results, 802.11b 10 MHz



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

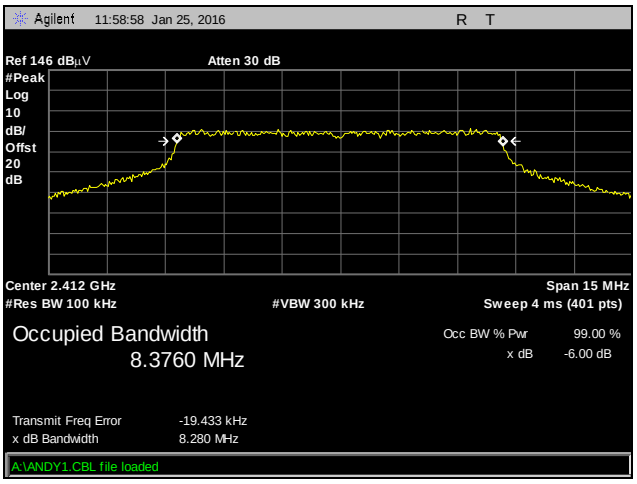


Plot 13. 6 dB Occupied Bandwidth, Mid Channel, 802.11b 10 MHz

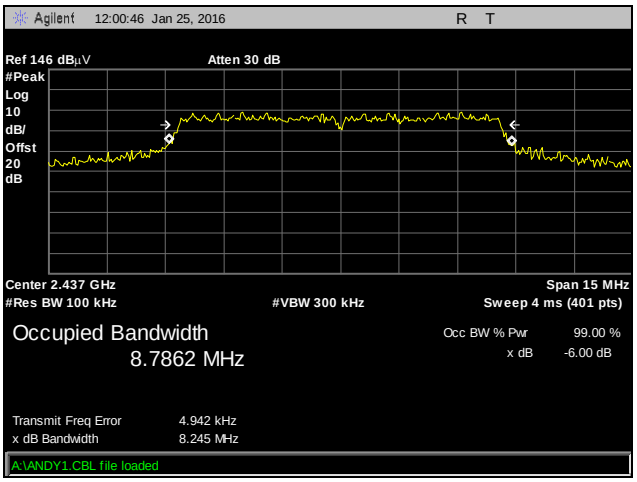


Plot 14. 6 dB Occupied Bandwidth, High Channel, 802.11b 10 MHz

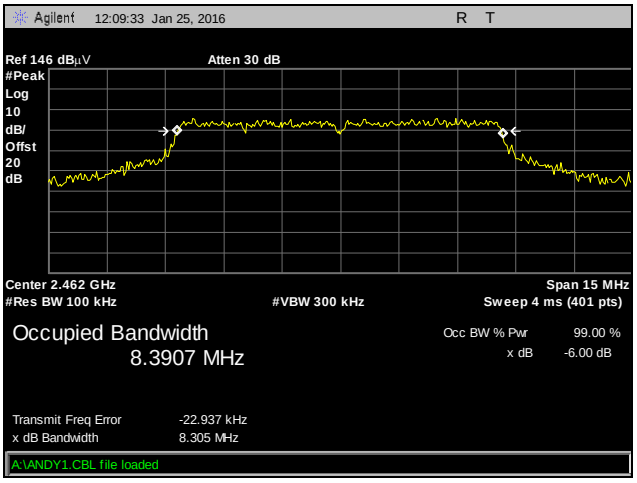
6 dB Occupied Bandwidth Test Results, 802.11g 10 MHz



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

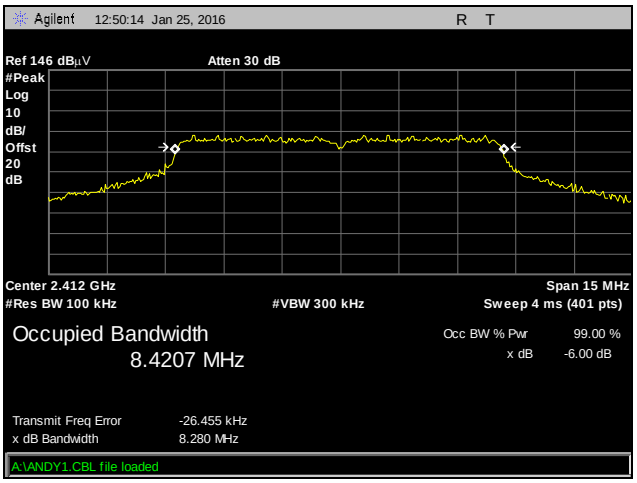


Plot 16. 6 dB Occupied Bandwidth, Mid Channel, 802.11g 10 MHz

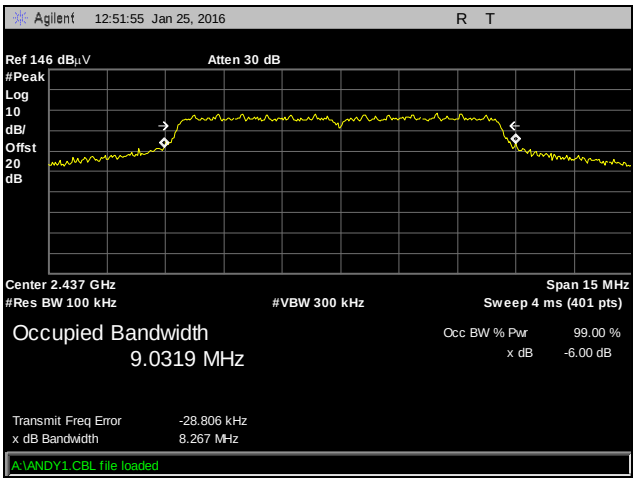


Plot 17. 6 dB Occupied Bandwidth, High Channel, 802.11g 10 MHz

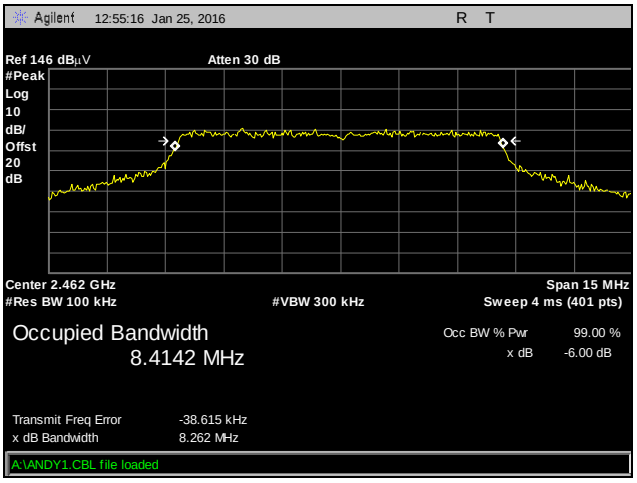
6 dB Occupied Bandwidth Test Results, 802.11n 10 MHz



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

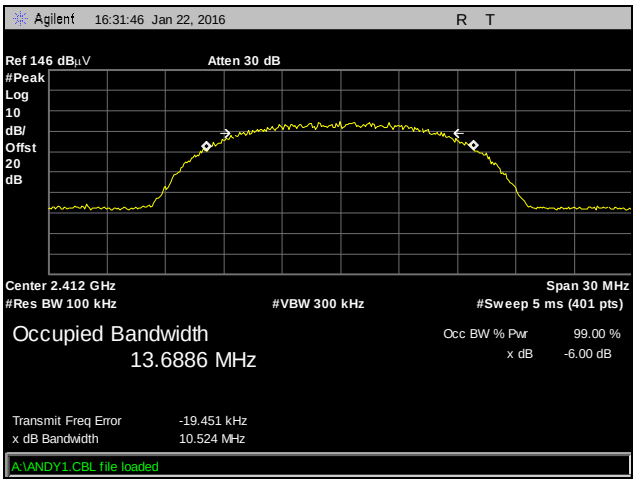


Plot 19. 6 dB Occupied Bandwidth, Mid Channel, 802.11n 10 MHz

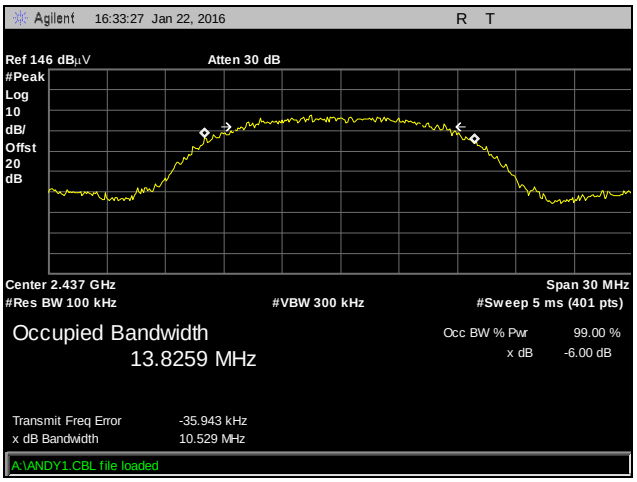


Plot 20. 6 dB Occupied Bandwidth, High Channel, 802.11n 10 MHz

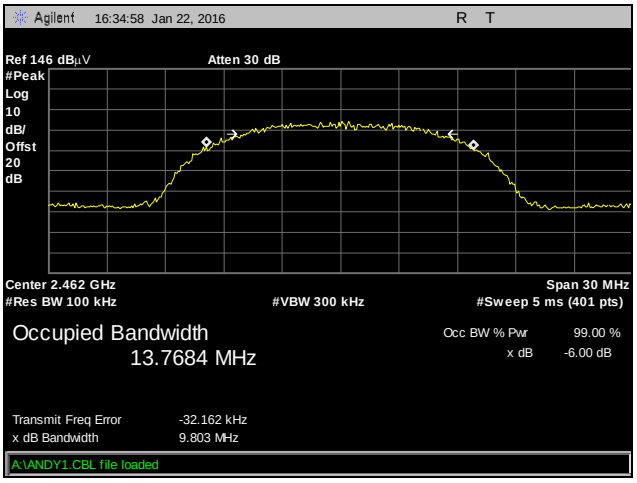
6 dB Occupied Bandwidth Test Results, 802.11b 20 MHz



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

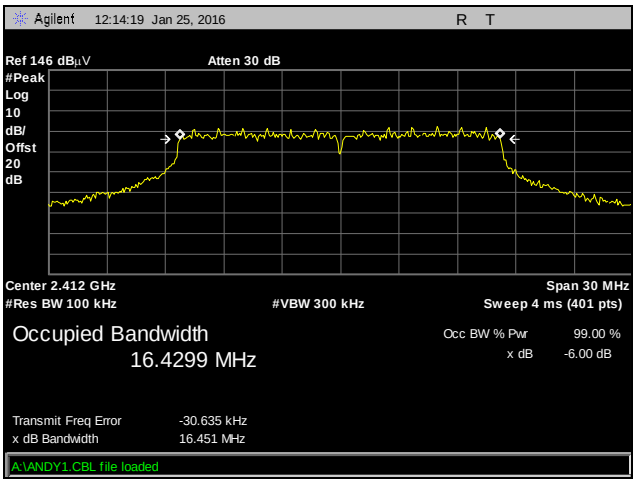


Plot 22. 6 dB Occupied Bandwidth, Mid Channel, 802.11b 20 MHz

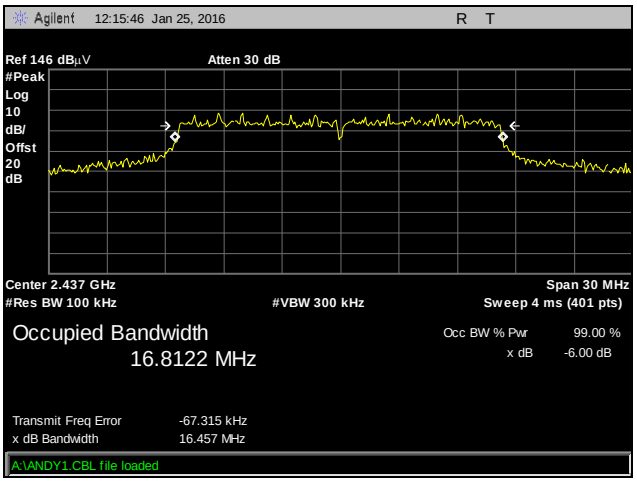


Plot 23. 6 dB Occupied Bandwidth, High Channel, 802.11b 20 MHz

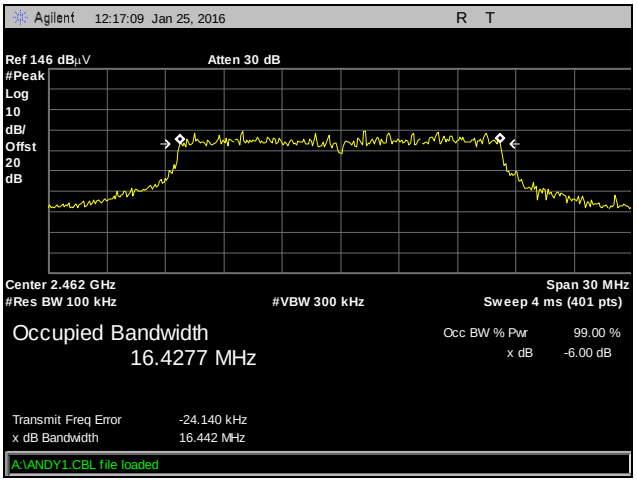
6 dB Occupied Bandwidth Test Results, 802.11g 20 MHz



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

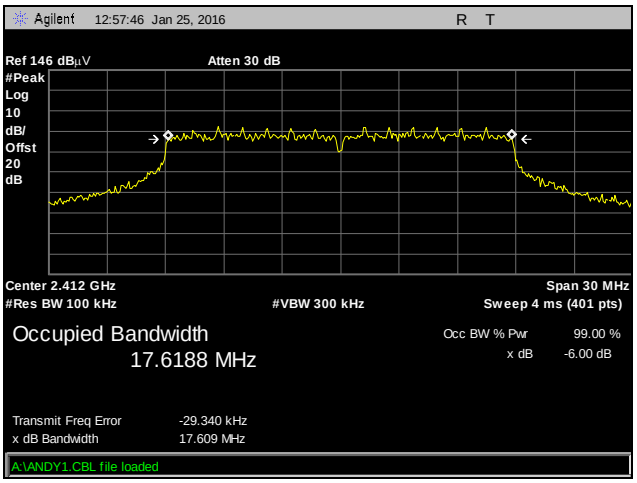


Plot 25. 6 dB Occupied Bandwidth, Mid Channel, 802.11g 20 MHz

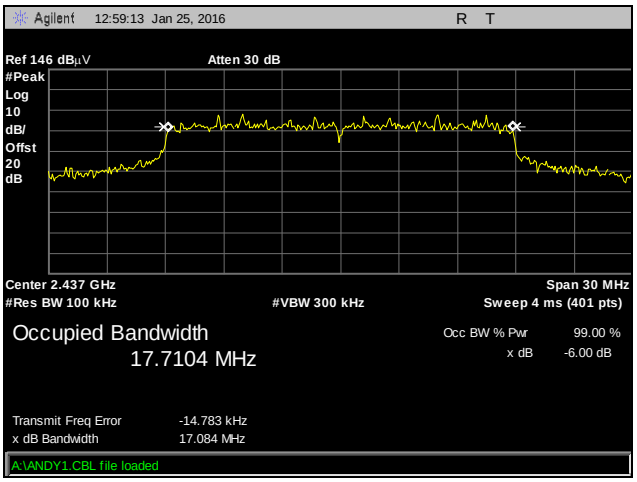


Plot 26. 6 dB Occupied Bandwidth, High Channel, 802.11g 20 MHz

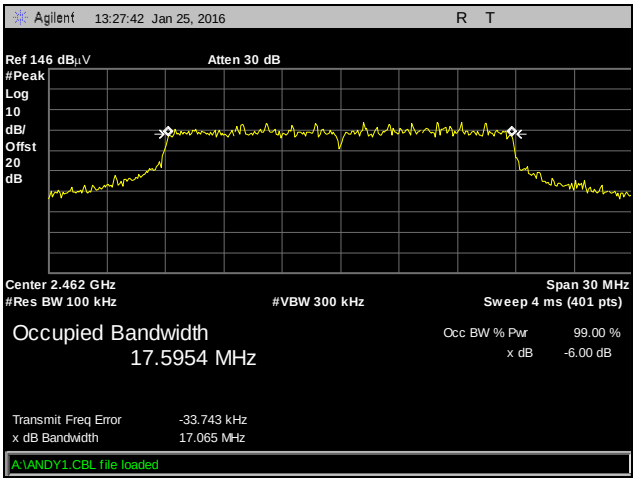
6 dB Occupied Bandwidth Test Results, 802.11n 20 MHz



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

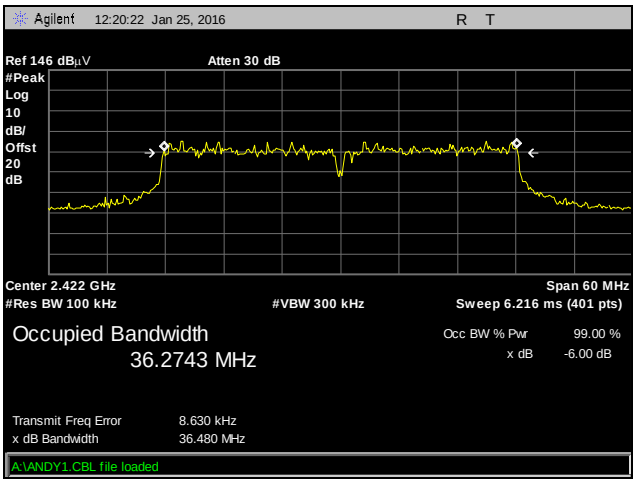


Plot 28. 6 dB Occupied Bandwidth, Mid Channel, 802.11n 20 MHz

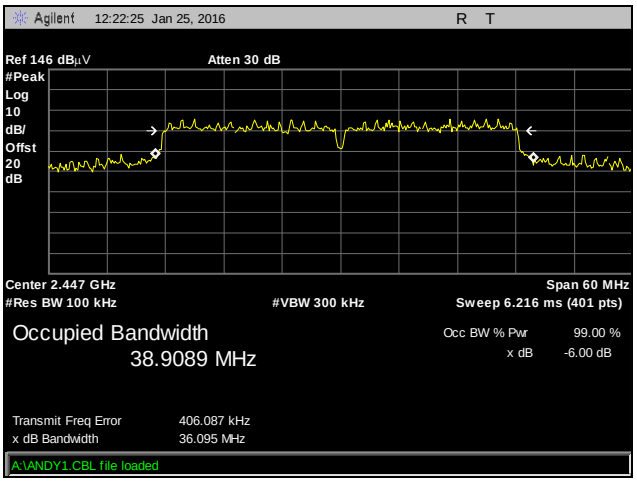


Plot 29. 6 dB Occupied Bandwidth, High Channel, 802.11n 20 MHz

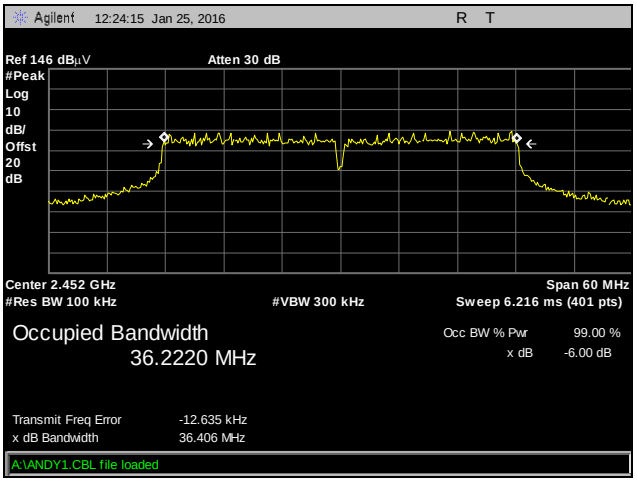
6 dB Occupied Bandwidth Test Results, 802.11g 40 MHz



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

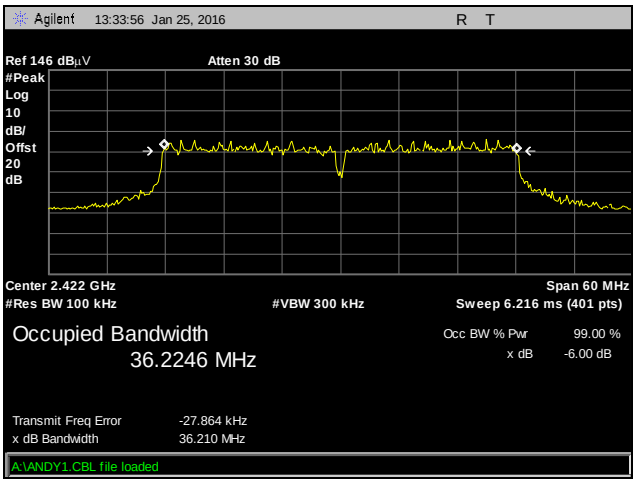


Plot 31. 6 dB Occupied Bandwidth, Mid Channel, 802.11g 40 MHz

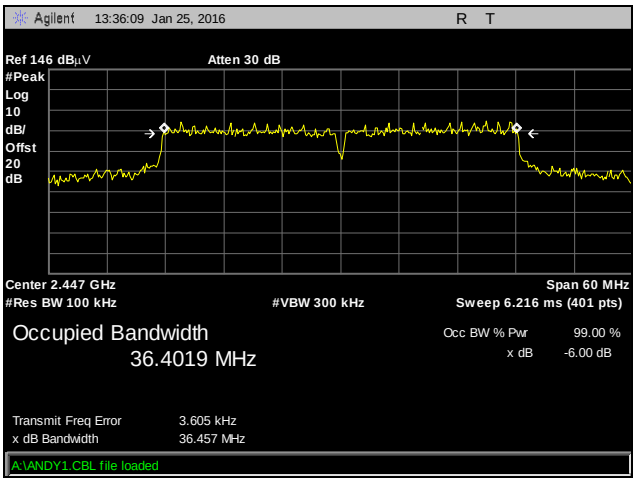


Plot 32. 6 dB Occupied Bandwidth, High Channel, 802.11g 40 MHz

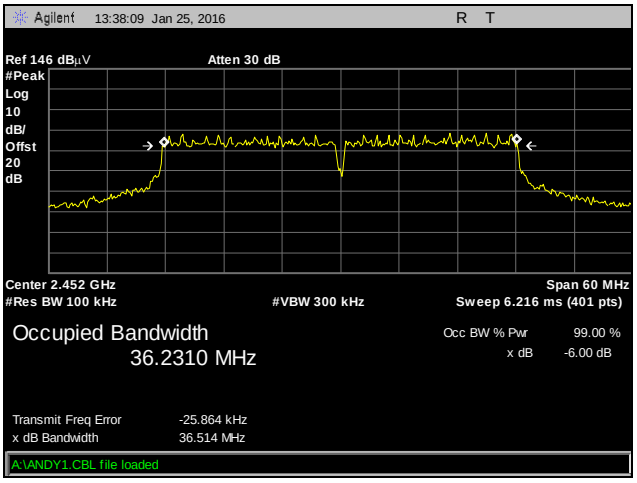
6 dB Occupied Bandwidth Test Results, 802.11n 40 MHz



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

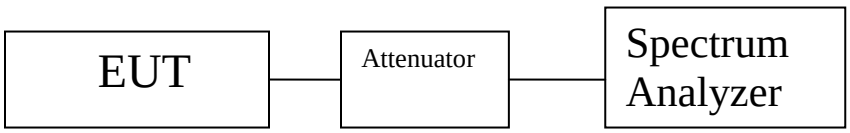


Figure 3. Peak Power Output Test Setup

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	**29.83**
		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

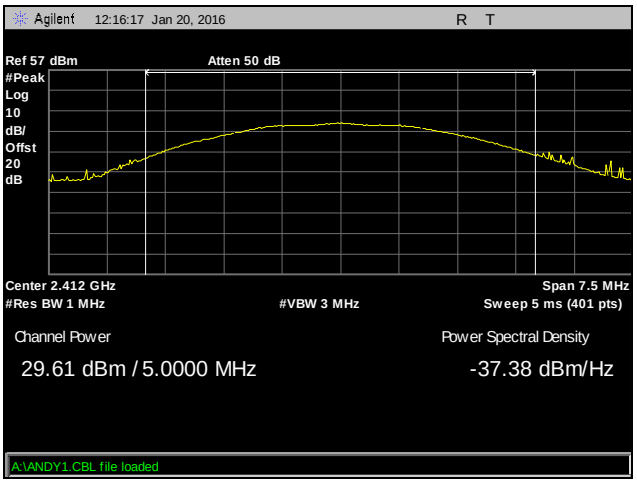
Parabolic Antenna Peak Conducted Output Power					
Mode	**Bandwidth (MHz)**	**Carrier Channel**	**Frequency (MHz)**	**Limit (dBm)**	**Measured Peak Output Power (dBm)**
802.11b	5	Low	2412	21	10.43
		Mid	2437	21	16.26
		High	2462	21	10.06
	10	Low	2412	21	5.41
		Mid	2437	21	15.47
		High	2462	21	6.56
	20	Low	2422	21	15.88
		Mid	2437	21	**17.31**
		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

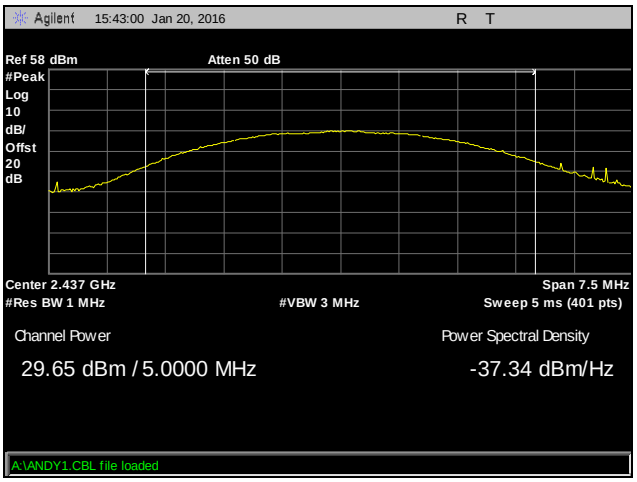
Yagi Antenna Peak Conducted Output Power					
Mode	**Bandwidth (MHz)**	**Carrier Channel**	**Frequency (MHz)**	**Limit (dBm)**	**Measured Peak Output Power (dBm)**
802.11b	5	Low	2412	30	19.38
		Mid	2437	30	29.59
		High	2462	30	19.80
	10	Low	2412	30	18.34
		Mid	2437	30	29.07
		High	2462	30	19.48
	20	Low	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	**29.65**
		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

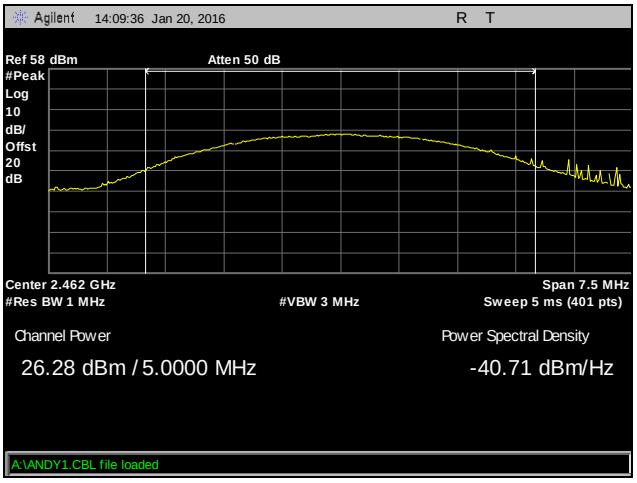
Peak Power Output Test Results, 802.11b 5 MHz, Omni Antenna



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

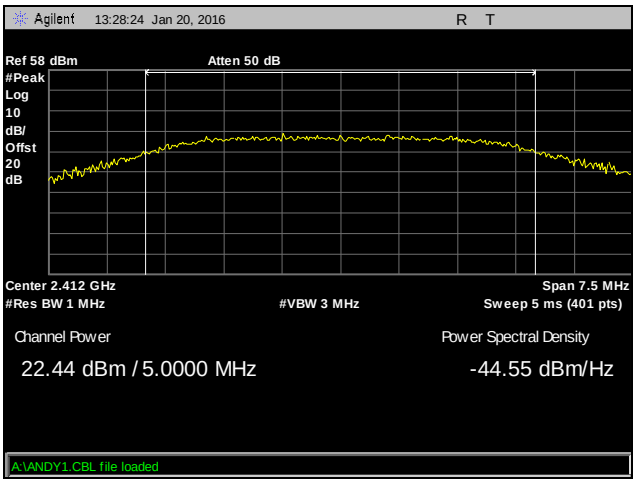


Plot 37. Peak Power Output, Mid Channel, 802.11b 5 MHz, Omni Antenna

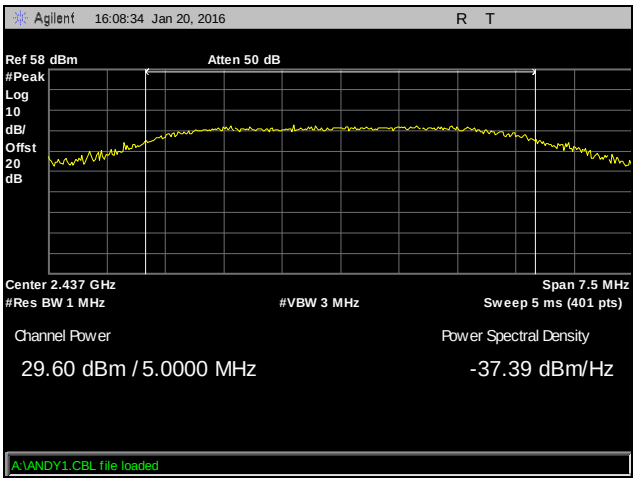


Plot 38. Peak Power Output, High Channel, 802.11b 5 MHz, Omni Antenna

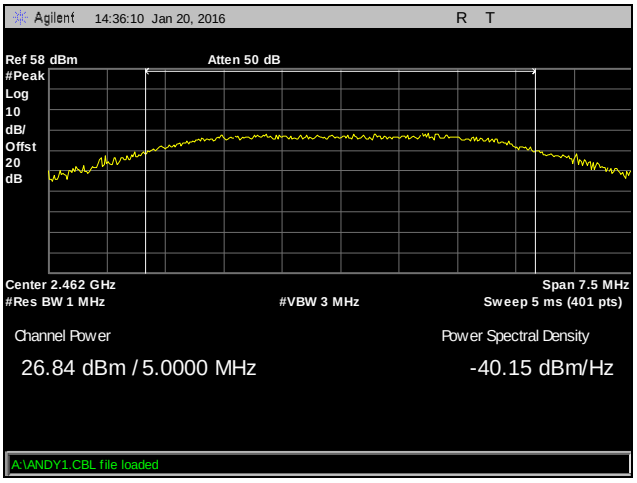
Peak Power Output Test Results, 802.11g 5 MHz, Omni Antenna



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

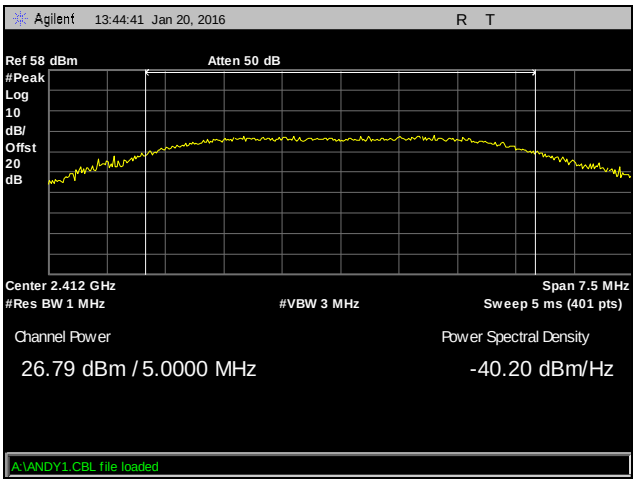


Plot 40. Peak Power Output, Mid Channel, 802.11g 5 MHz, Omni Antenna

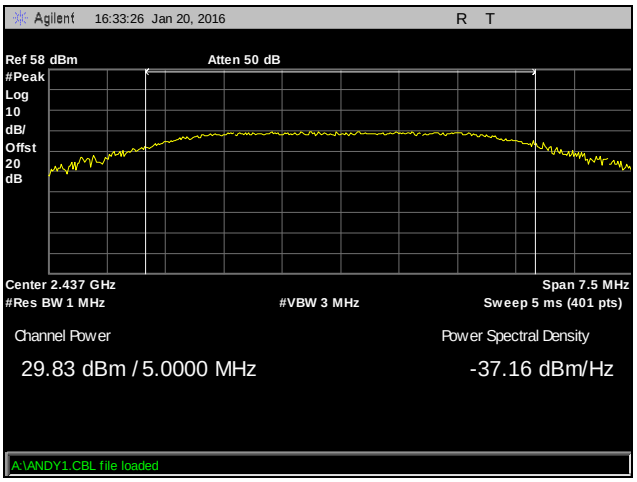


Plot 41. Peak Power Output, High Channel, 802.11g 5 MHz, Omni Antenna

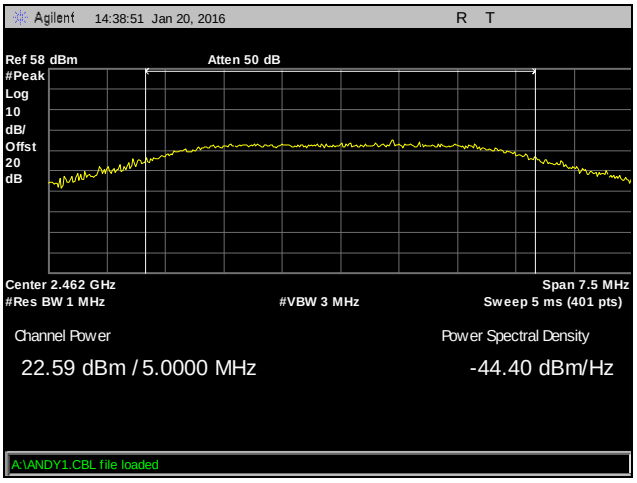
Peak Power Output Test Results, 802.11n 5 MHz, Omni Antenna



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

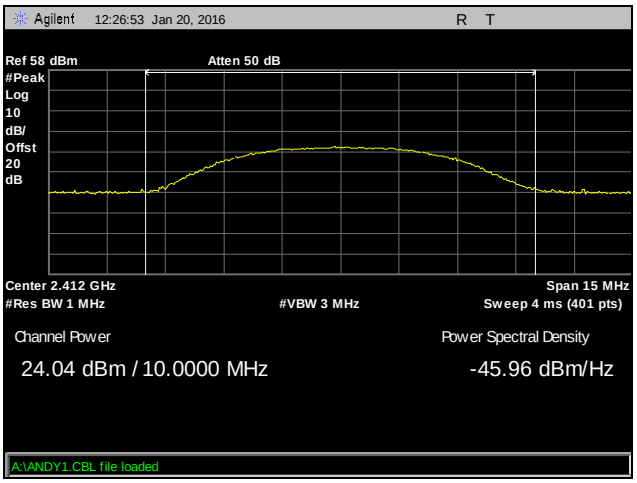


Plot 43. Peak Power Output, Mid Channel, 802.11n 5 MHz, Omni Antenna

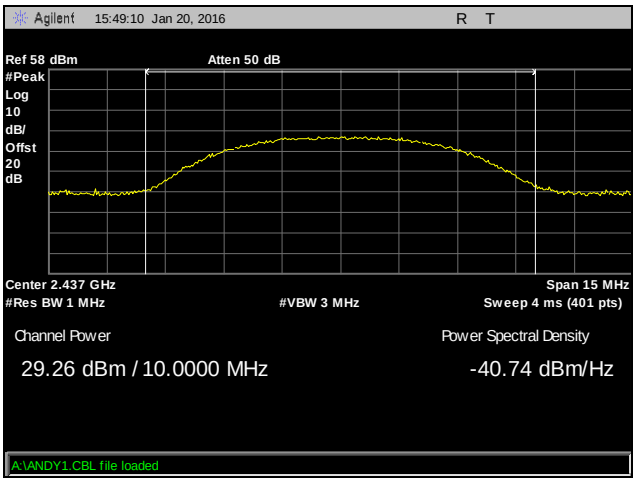


Plot 44. Peak Power Output, High Channel, 802.11n 5 MHz, Omni Antenna

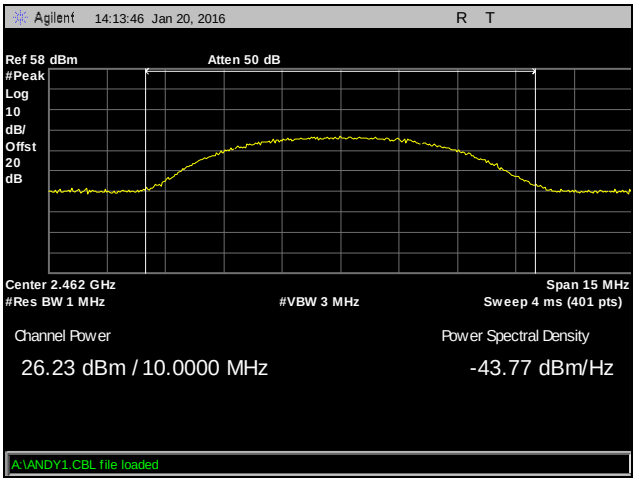
Peak Power Output Test Results, 802.11b 10 MHz, Omni Antenna



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

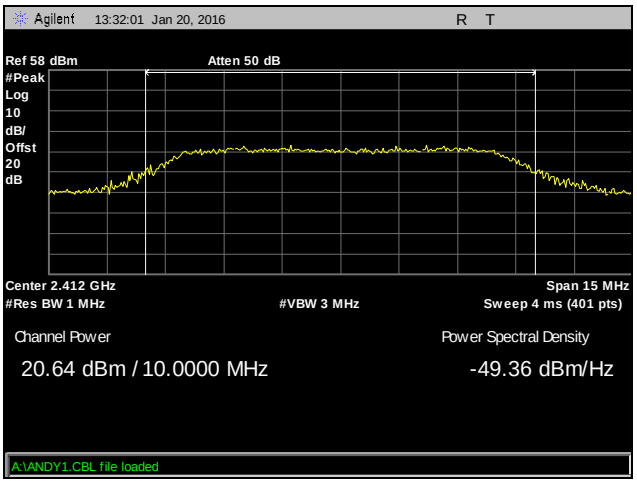


Plot 46. Peak Power Output, Mid Channel, 802.11b 10 MHz, Omni Antenna

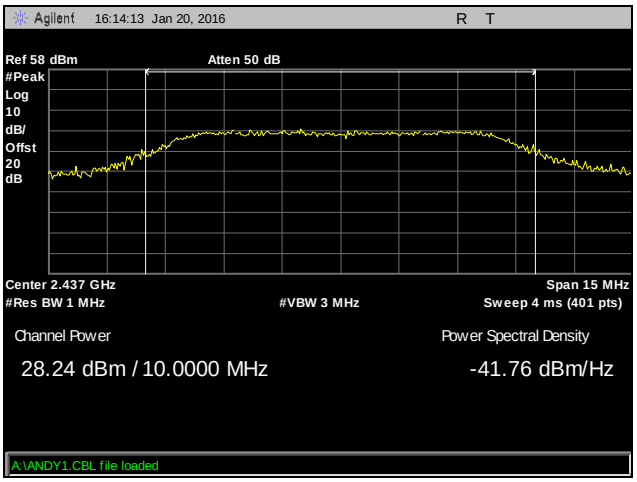


Plot 47. Peak Power Output, High Channel, 802.11b 10 MHz, Omni Antenna

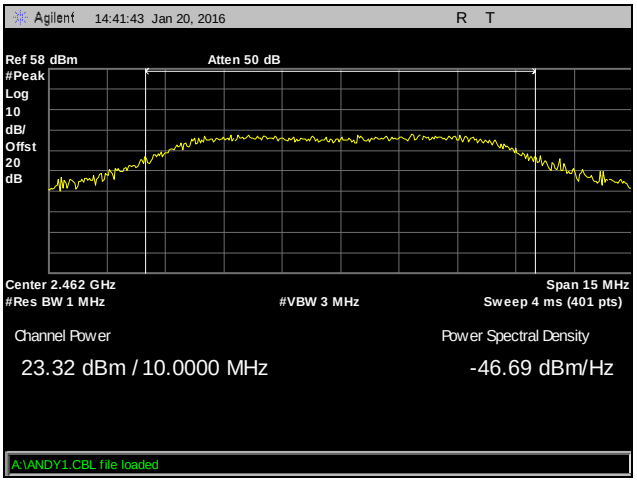
Peak Power Output Test Results, 802.11g 10 MHz, Omni Antenna



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

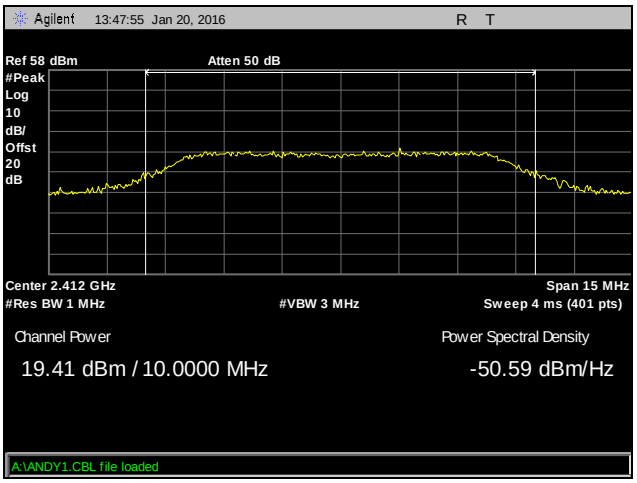


Plot 49. Peak Power Output, Mid Channel, 802.11g 10 MHz, Omni Antenna

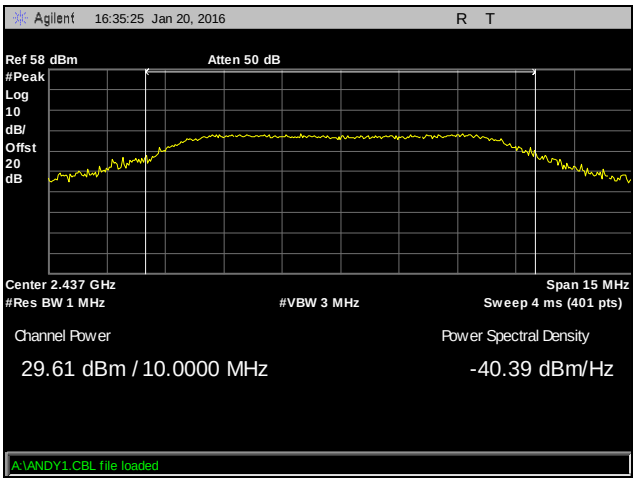


Plot 50. Peak Power Output, High Channel, 802.11g 10 MHz, Omni Antenna

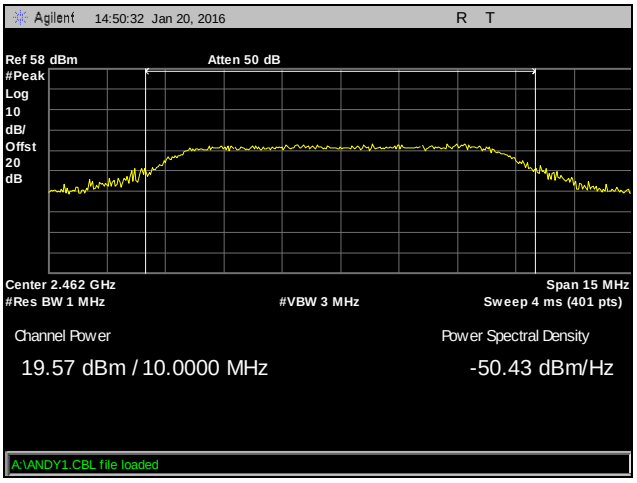
Peak Power Output Test Results, 802.11n 10 MHz, Omni Antenna



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

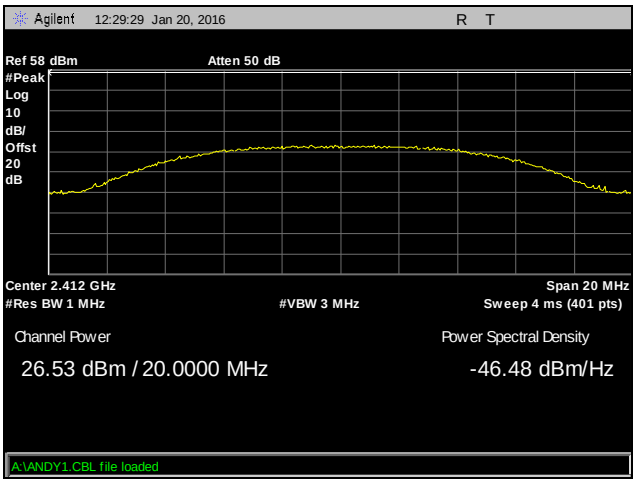


Plot 52. Peak Power Output, Mid Channel, 802.11n 10 MHz, Omni Antenna

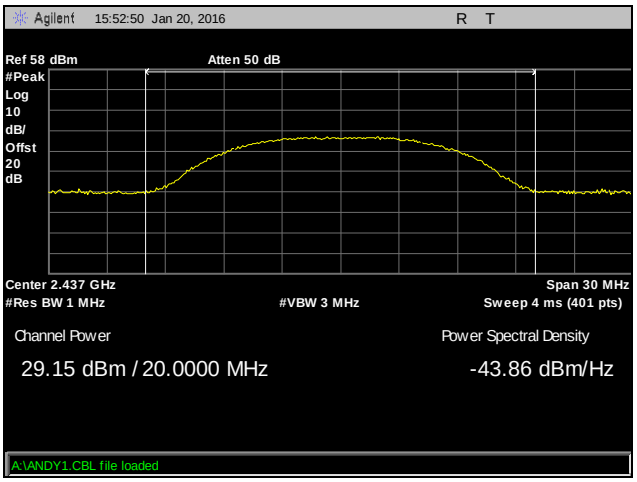


Plot 53. Peak Power Output, High Channel, 802.11n 10 MHz, Omni Antenna

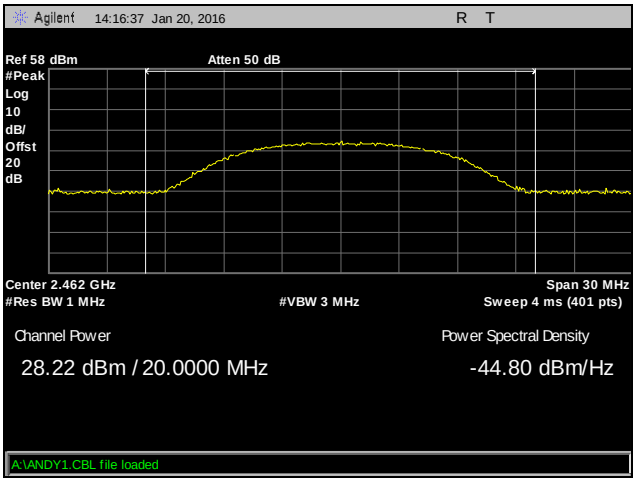
Peak Power Output Test Results, 802.11b 20 MHz, Omni Antenna



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

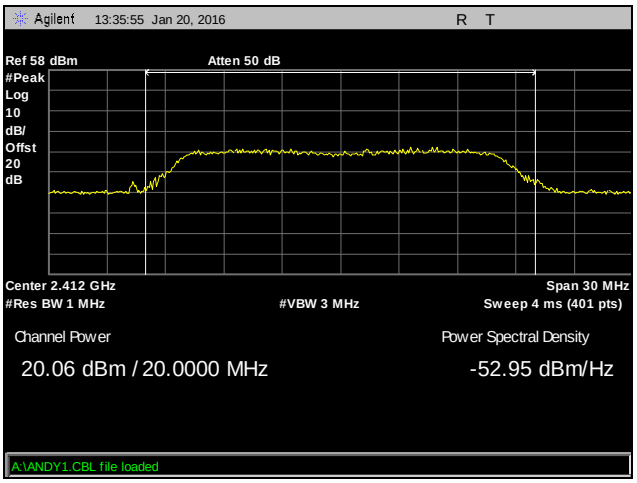


Plot 55. Peak Power Output, Mid Channel, 802.11b 20 MHz, Omni Antenna

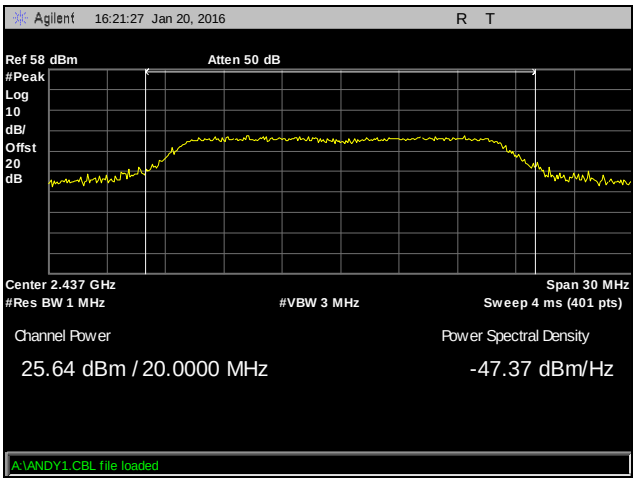


Plot 56. Peak Power Output, High Channel, 802.11b 20 MHz, Omni Antenna

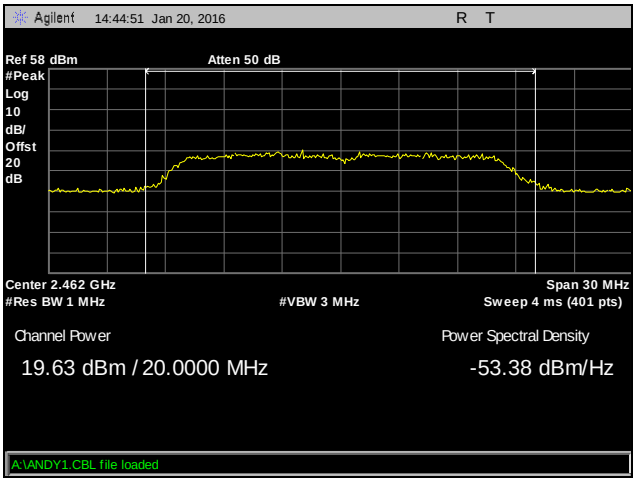
Peak Power Output Test Results, 802.11g 20 MHz, Omni Antenna



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

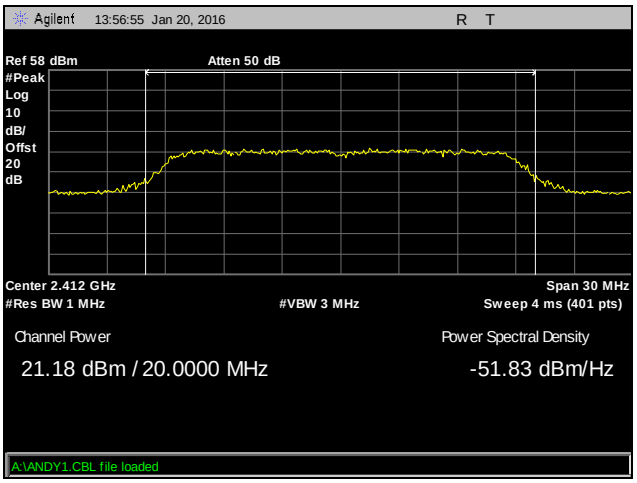


Plot 58. Peak Power Output, Mid Channel, 802.11g 20 MHz, Omni Antenna

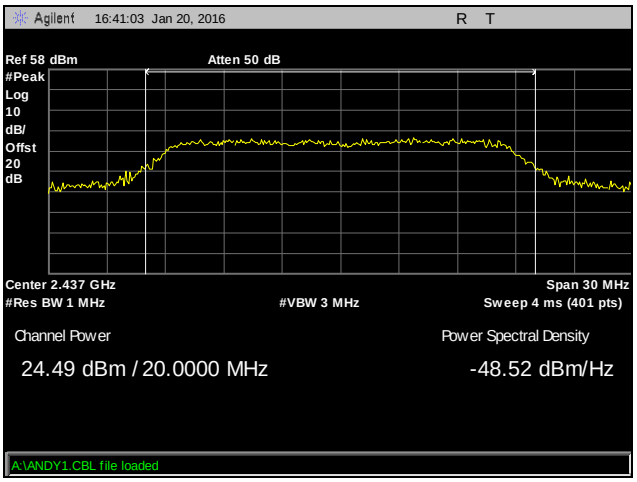


Plot 59. Peak Power Output, High Channel, 802.11g 20 MHz, Omni Antenna

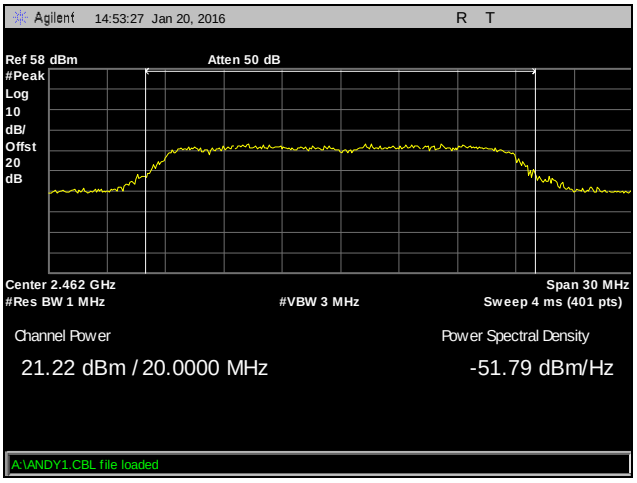
Peak Power Output Test Results, 802.11n 20 MHz, Omni Antenna



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

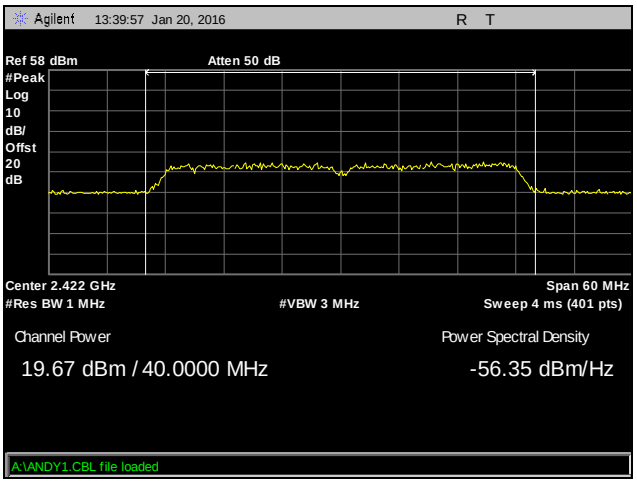


Plot 61. Peak Power Output, Mid Channel, 802.11n 20 MHz, Omni Antenna

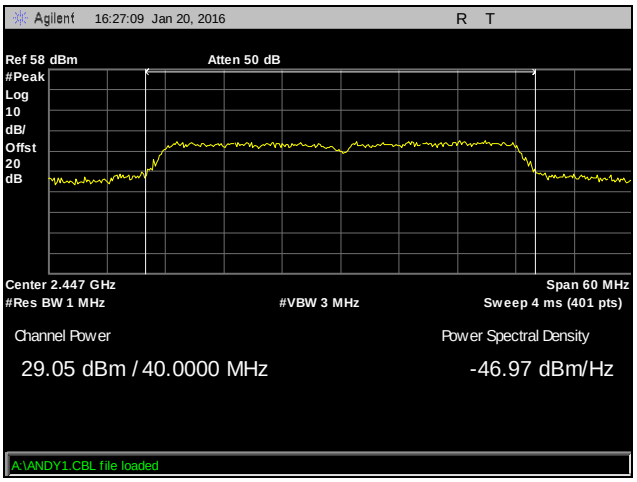


Plot 62. Peak Power Output, High Channel, 802.11n 20 MHz, Omni Antenna

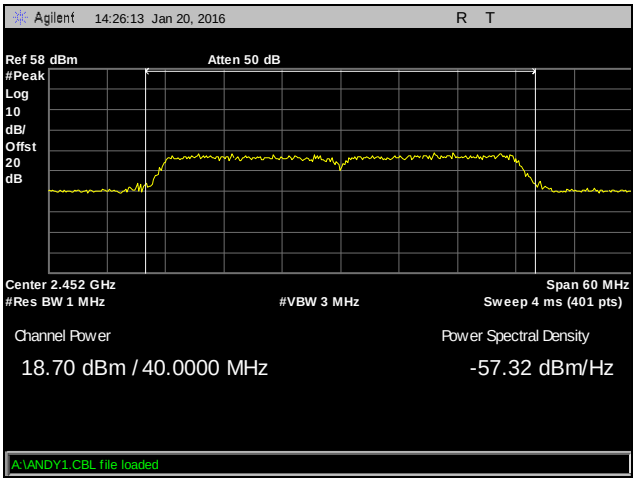
Peak Power Output Test Results, 802.11g 40 MHz, Omni Antenna



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

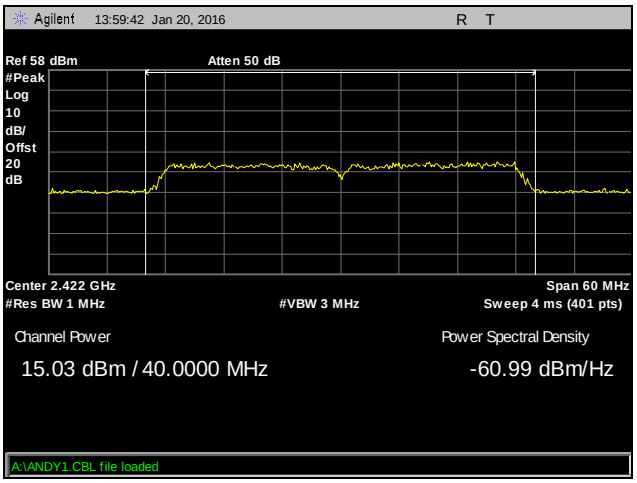


Plot 64. Peak Power Output, Mid Channel, 802.11g 40 MHz, Omni Antenna

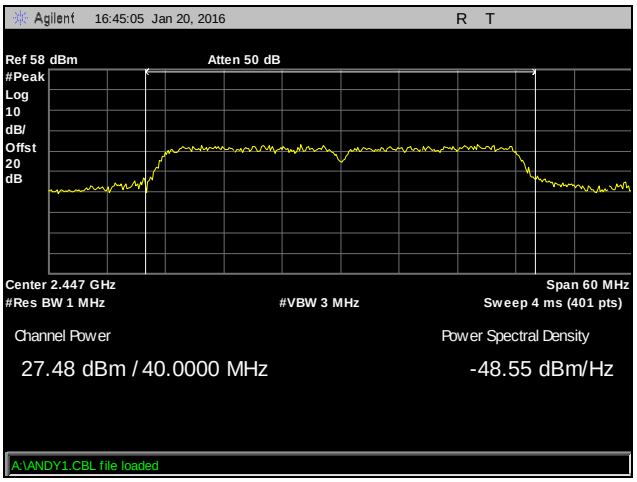


Plot 65. Peak Power Output, High Channel, 802.11g 40 MHz, Omni Antenna

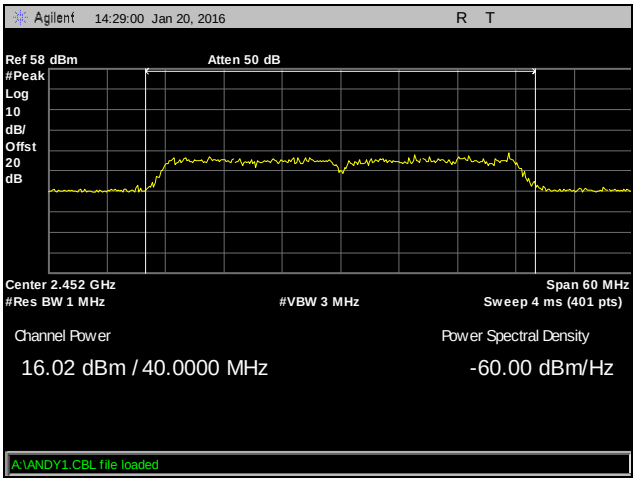
Peak Power Output Test Results, 802.11n 40 MHz, Omni Antenna



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

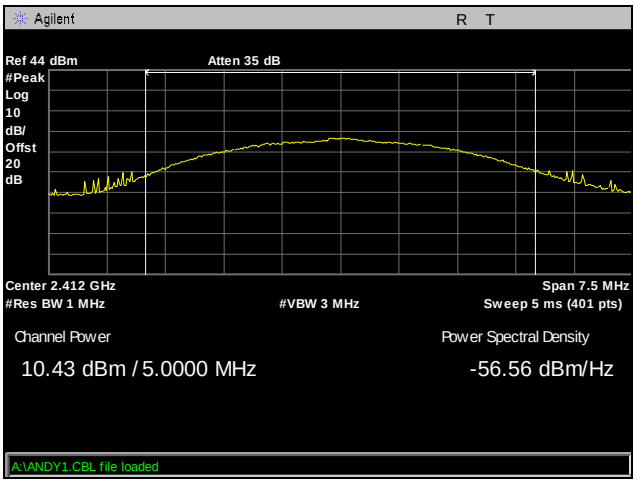


Plot 67. Peak Power Output, Mid Channel, 802.11n 40 MHz, Omni Antenna

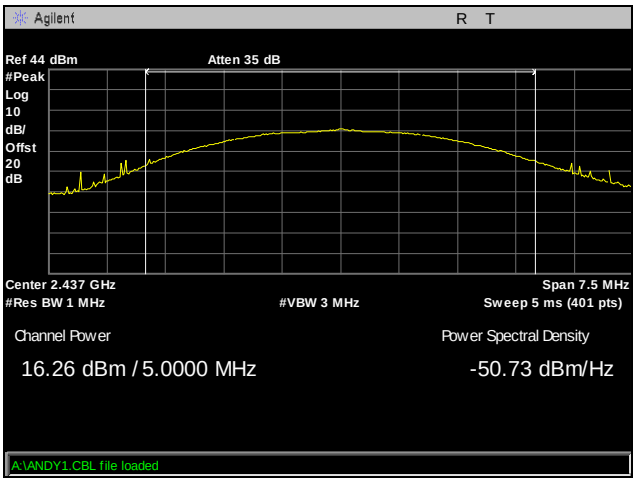


Plot 68. Peak Power Output, High Channel, 802.11n 40 MHz, Omni Antenna

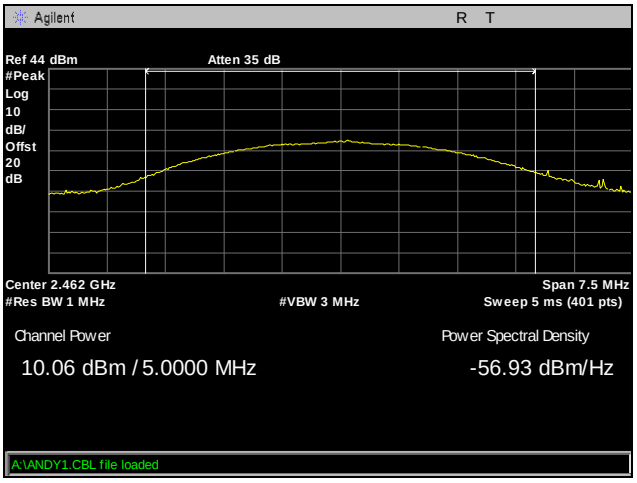
Peak Power Output Test Results, 802.11b 5 MHz, Parabolic Antenna



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

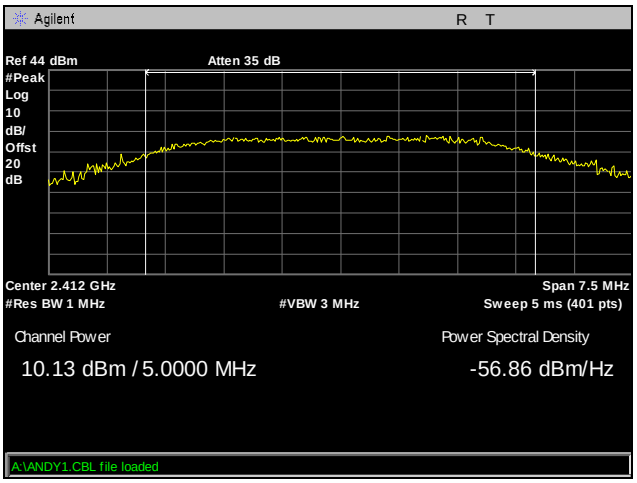


Plot 70. Peak Power Output, Mid Channel, 802.11b 5 MHz, Parabolic Antenna

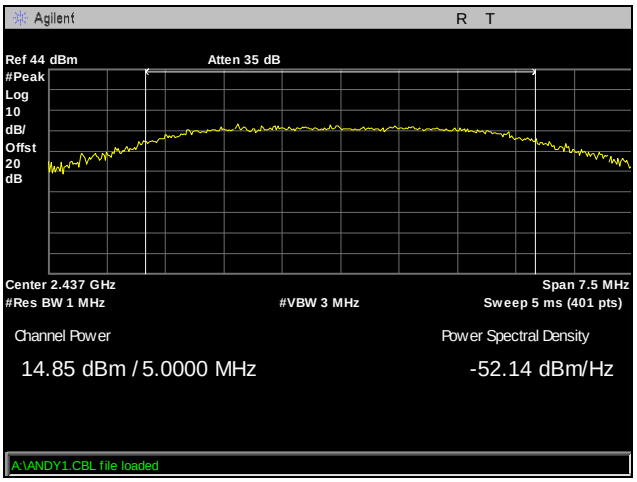


Plot 71. Peak Power Output, High Channel, 802.11b 5 MHz, Parabolic Antenna

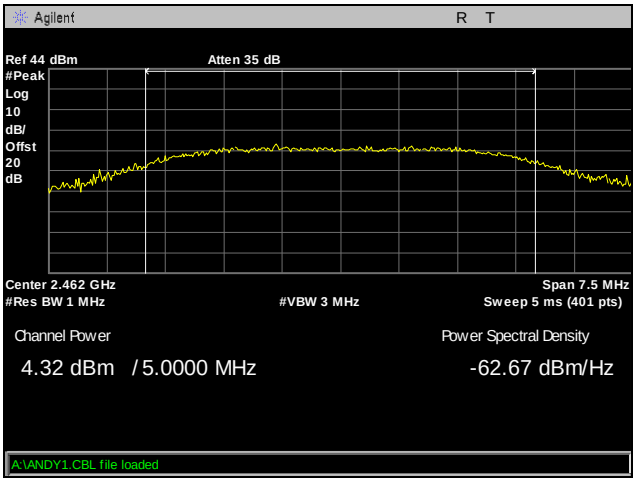
Peak Power Output Test Results, 802.11g 5 MHz, Parabolic Antenna



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

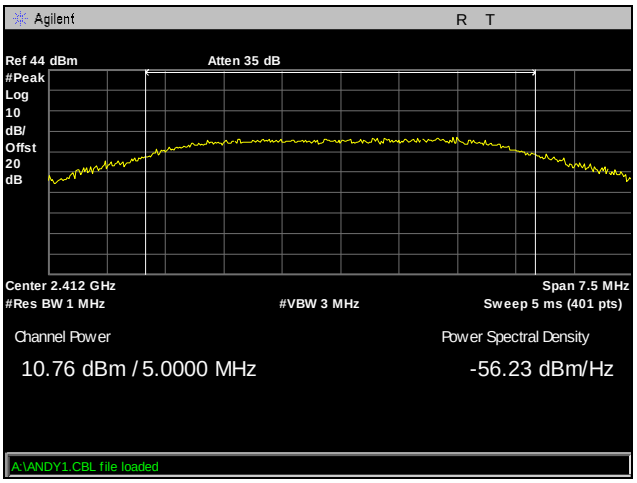


Plot 73. Peak Power Output, Mid Channel, 802.11g 5 MHz, Parabolic Antenna

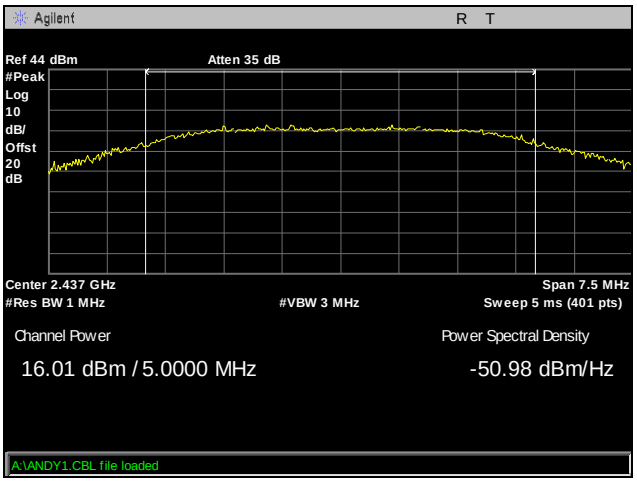


Plot 74. Peak Power Output, High Channel, 802.11g 5 MHz, Parabolic Antenna

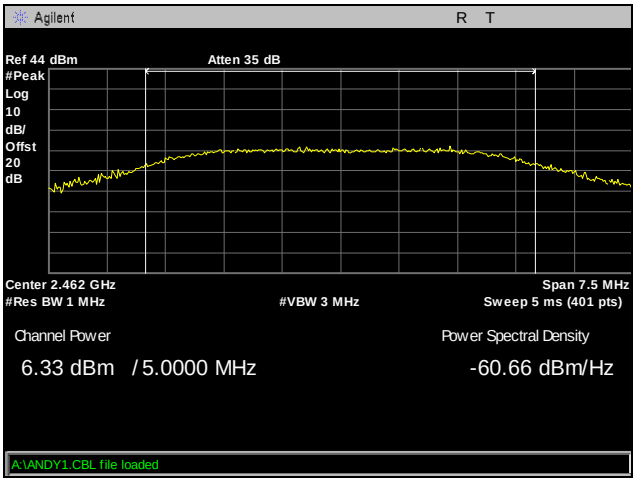
Peak Power Output Test Results, 802.11n 5 MHz, Parabolic Antenna



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

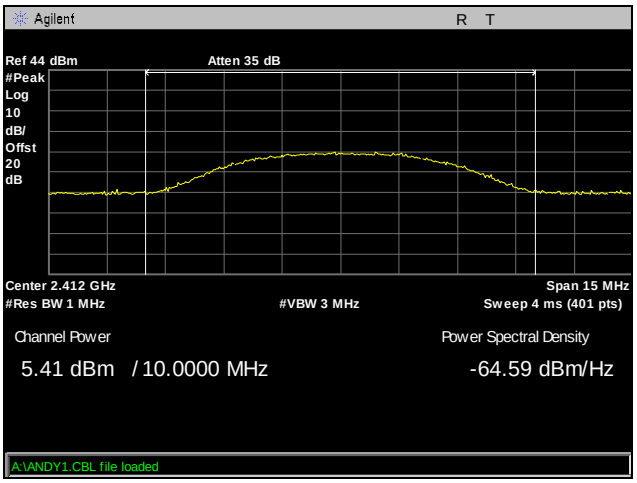


Plot 76. Peak Power Output, Mid Channel, 802.11n 5 MHz, Parabolic Antenna

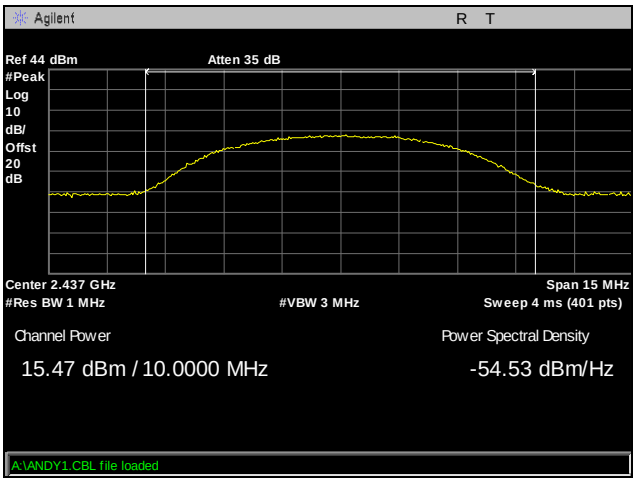


Plot 77. Peak Power Output, High Channel, 802.11n 5 MHz, Parabolic Antenna

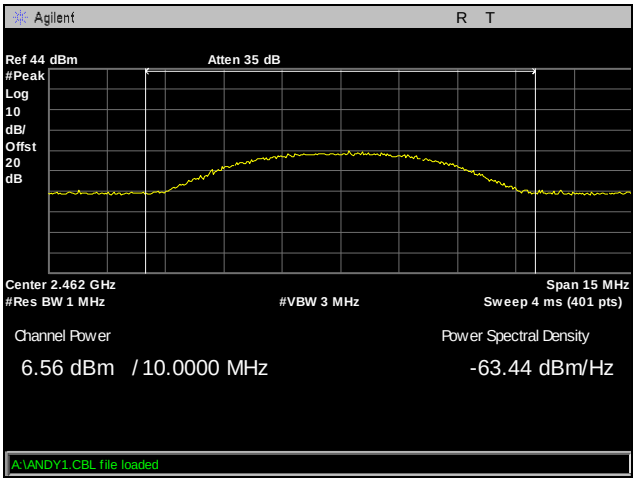
Peak Power Output Test Results, 802.11b 10 MHz, Parabolic Antenna



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

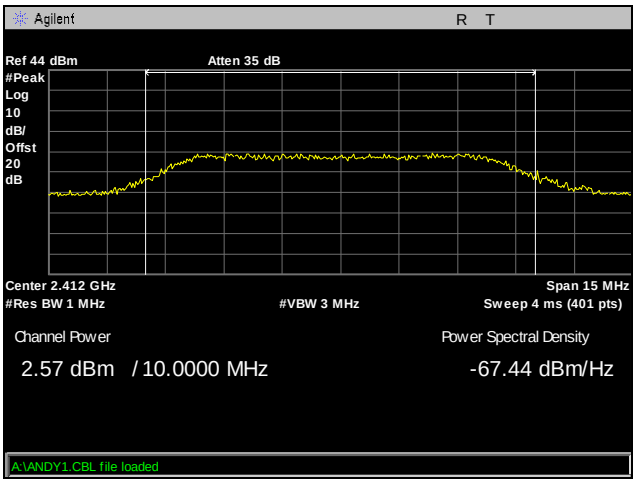


Plot 79. Peak Power Output, Mid Channel, 802.11b 10 MHz, Parabolic Antenna

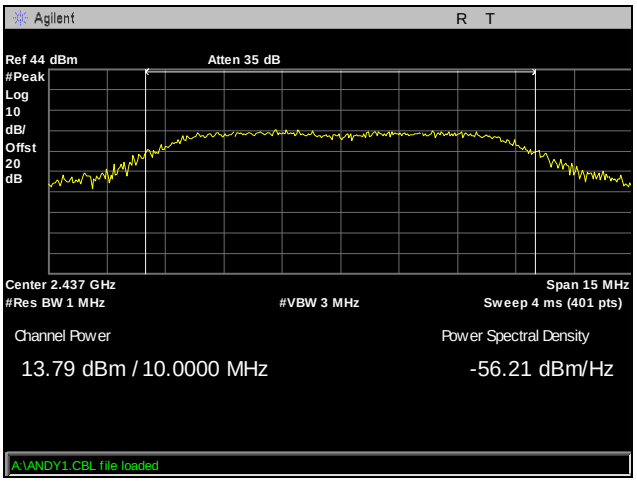


Plot 80. Peak Power Output, High Channel, 802.11b 10 MHz, Parabolic Antenna

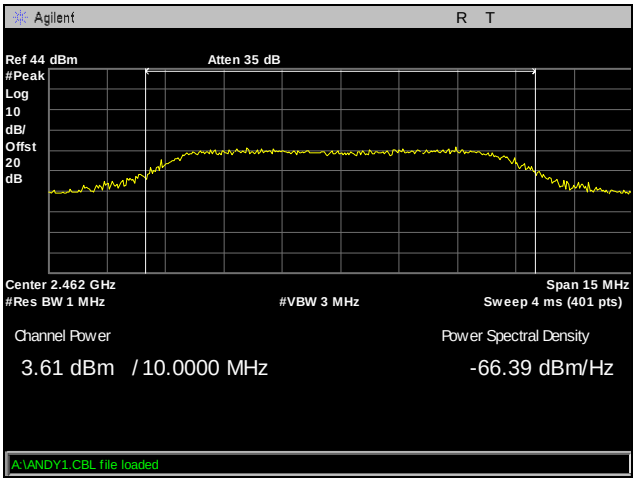
Peak Power Output Test Results, 802.11g 10 MHz, Parabolic Antenna



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

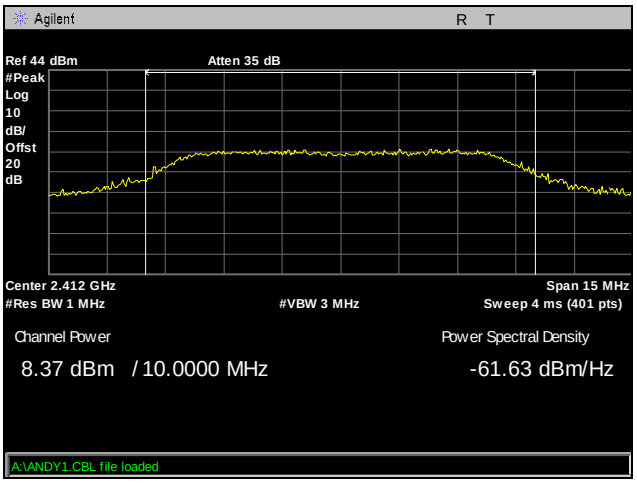


Plot 82. Peak Power Output, Mid Channel, 802.11g 10 MHz, Parabolic Antenna

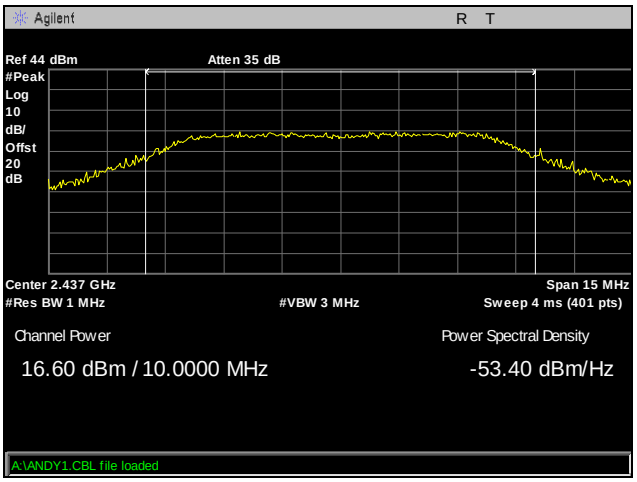


Plot 83. Peak Power Output, High Channel, 802.11g 10 MHz, Parabolic Antenna

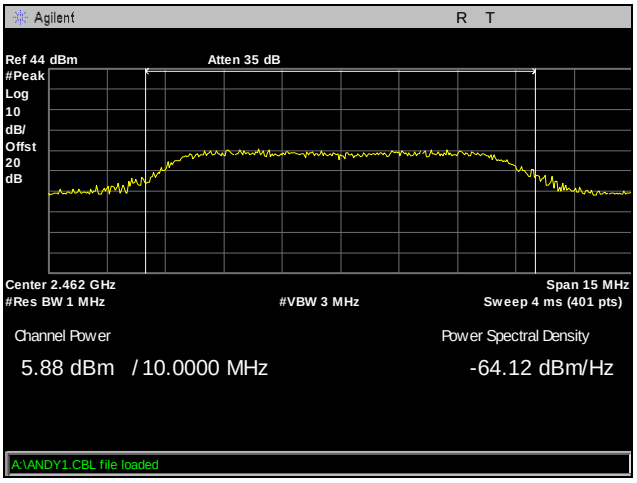
Peak Power Output Test Results, 802.11n 10 MHz, Parabolic Antenna



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

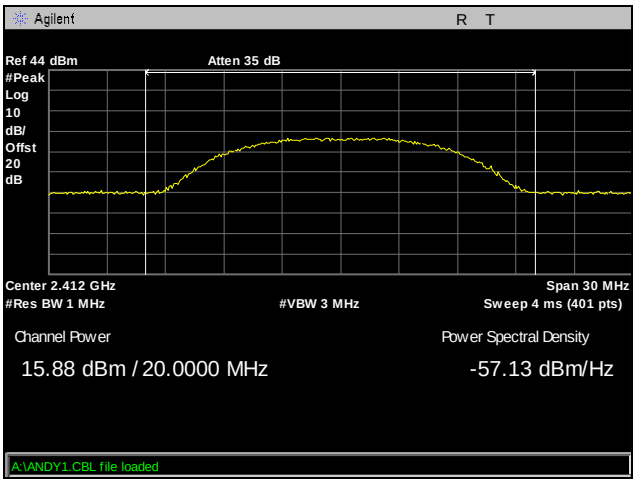


Plot 85. Peak Power Output, Mid Channel, 802.11n 10 MHz, Parabolic Antenna

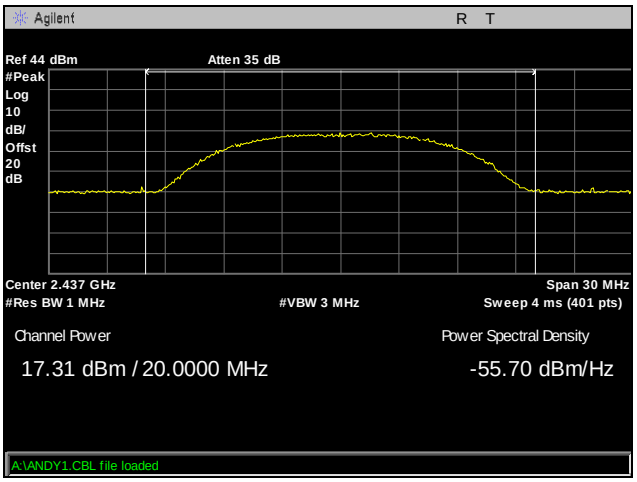


Plot 86. Peak Power Output, High Channel, 802.11n 10 MHz, Parabolic Antenna

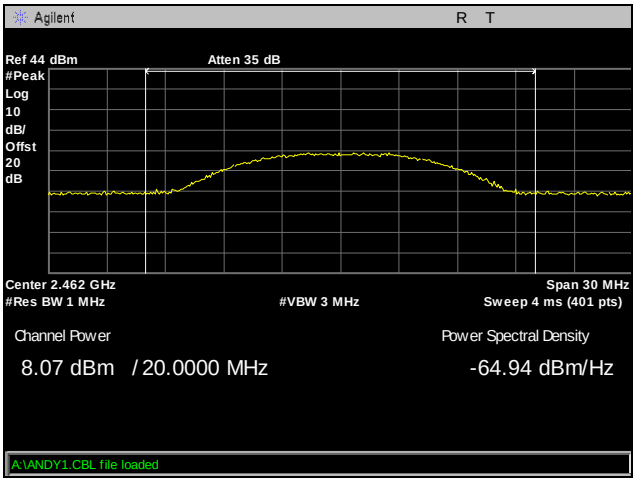
Peak Power Output Test Results, 802.11b 20 MHz, Parabolic Antenna



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

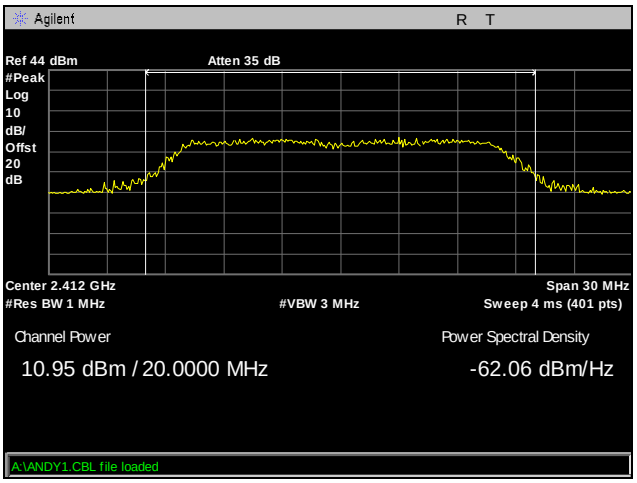


Plot 88. Peak Power Output, Mid Channel, 802.11b 20 MHz, Parabolic Antenna

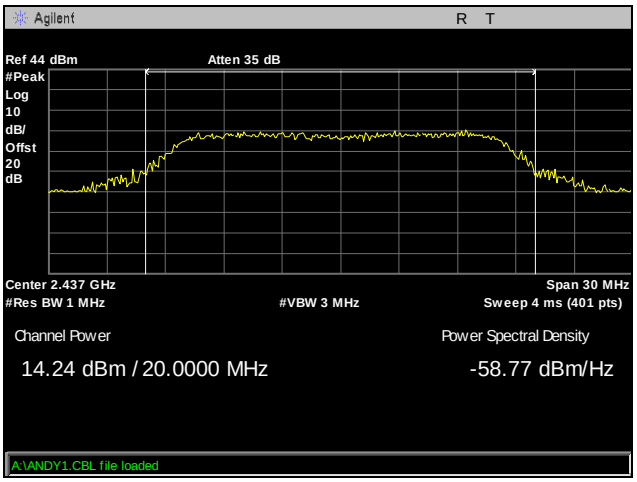


Plot 89. Peak Power Output, High Channel, 802.11b 20 MHz, Parabolic Antenna

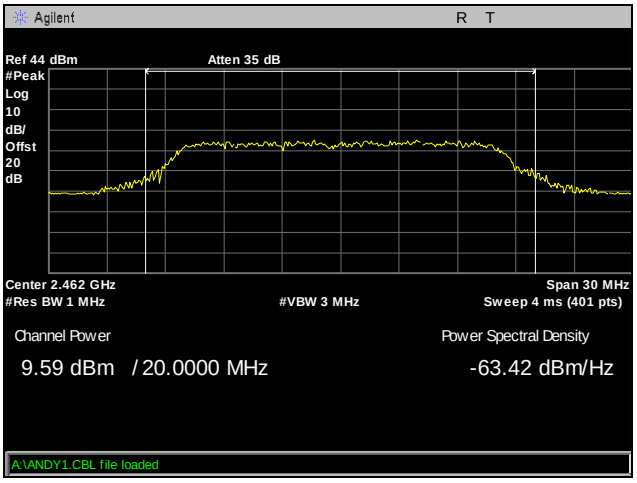
Peak Power Output Test Results, 802.11g 20 MHz, Parabolic Antenna



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

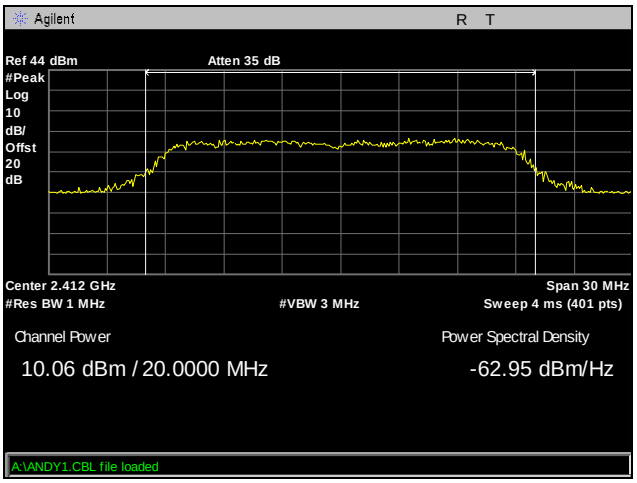


Plot 91. Peak Power Output, Mid Channel, 802.11g 20 MHz, Parabolic Antenna

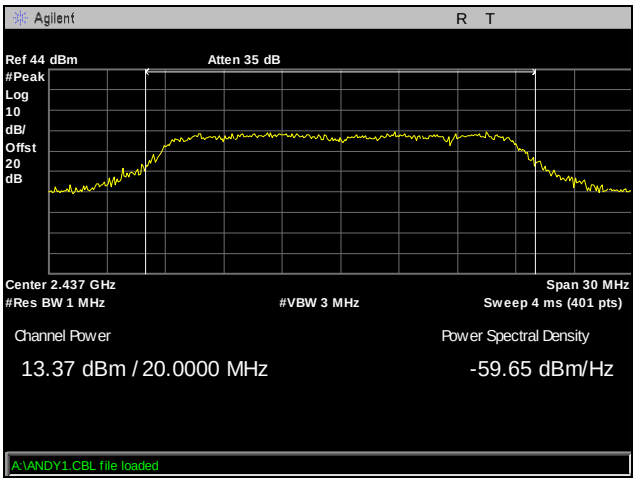


Plot 92. Peak Power Output, High Channel, 802.11g 20 MHz, Parabolic Antenna

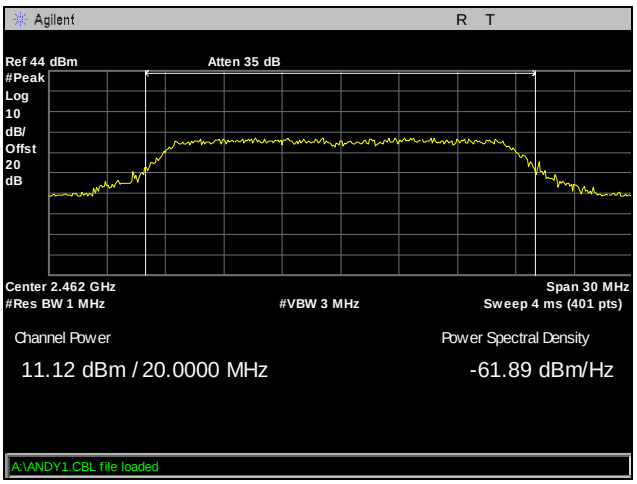
Peak Power Output Test Results, 802.11n 20 MHz, Parabolic Antenna



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

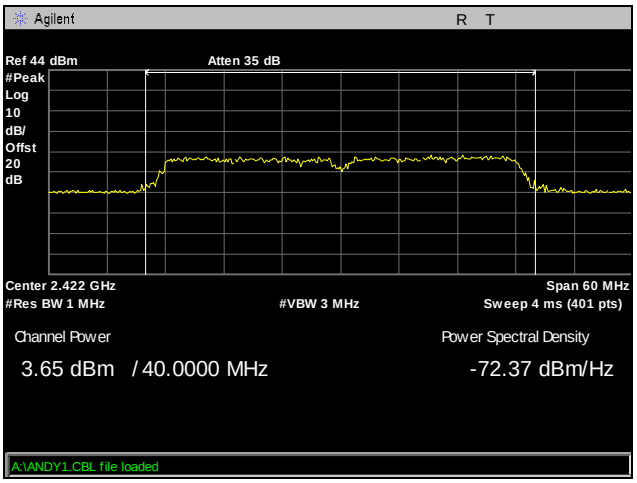


Plot 94. Peak Power Output, Mid Channel, 802.11n 20 MHz, Parabolic Antenna

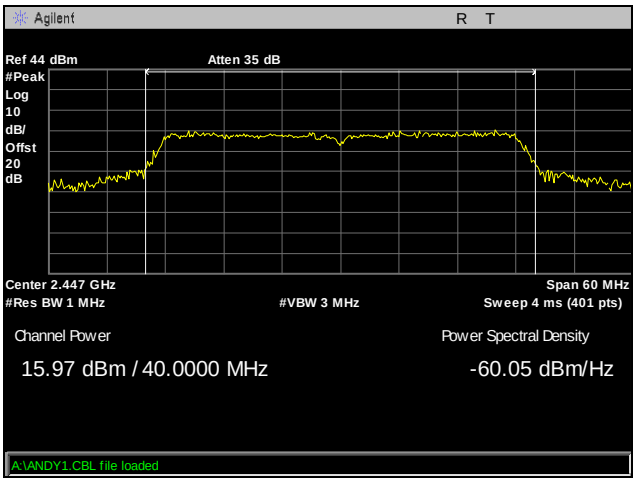


Plot 95. Peak Power Output, High Channel, 802.11n 20 MHz, Parabolic Antenna

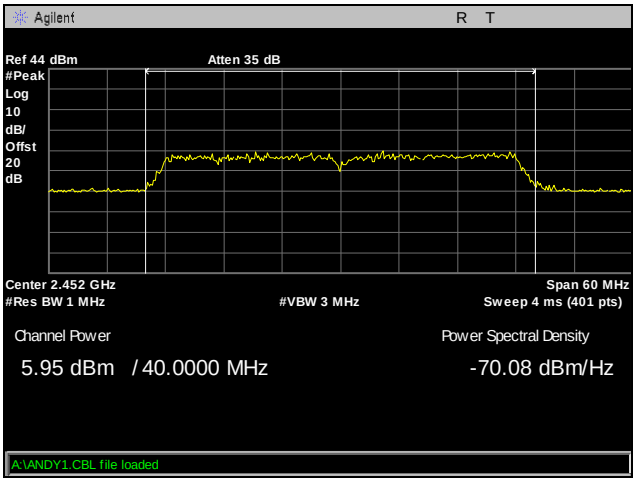
Peak Power Output Test Results, 802.11g 40 MHz, Parabolic Antenna



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

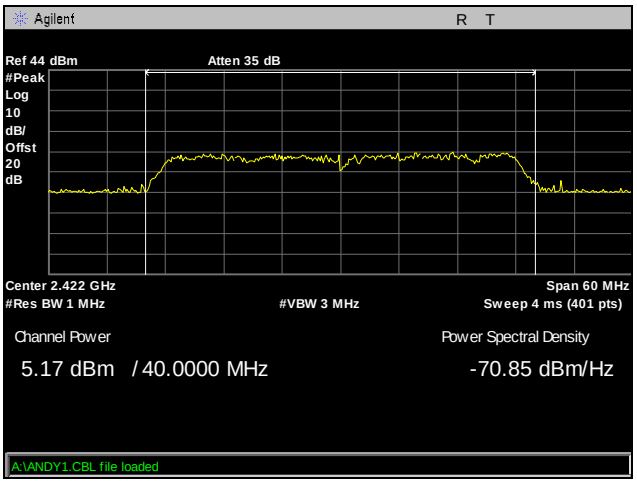


Plot 97. Peak Power Output, Mid Channel, 802.11g 40 MHz, Parabolic Antenna

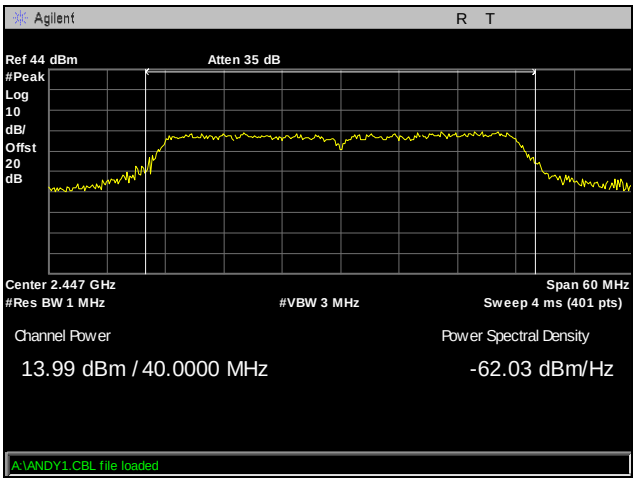


Plot 98. Peak Power Output, High Channel, 802.11g 40 MHz, Parabolic Antenna

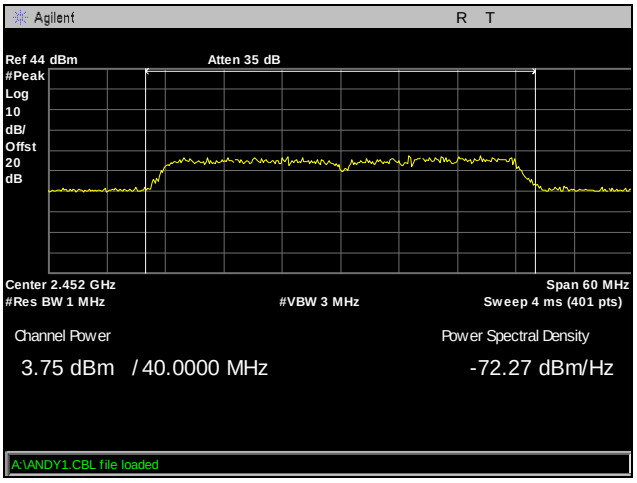
Peak Power Output Test Results, 802.11n 40 MHz, Parabolic Antenna



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

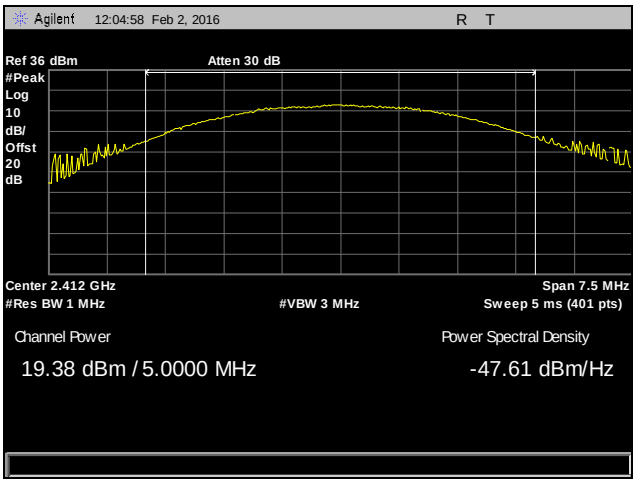


Plot 100. Peak Power Output, Mid Channel, 802.11n 40 MHz, Parabolic Antenna

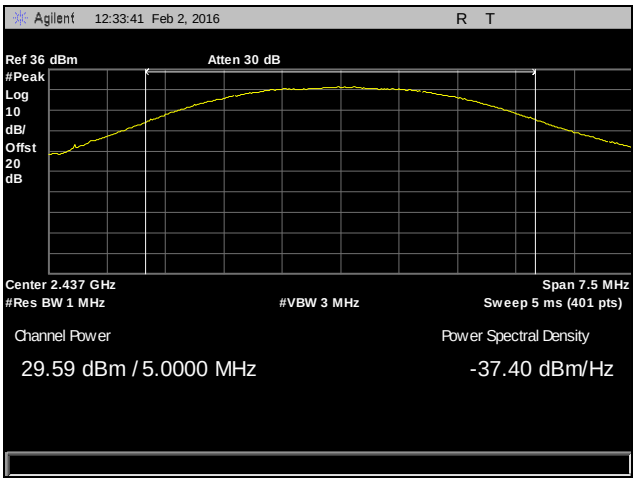


Plot 101. Peak Power Output, High Channel, 802.11n 40 MHz, Parabolic Antenna

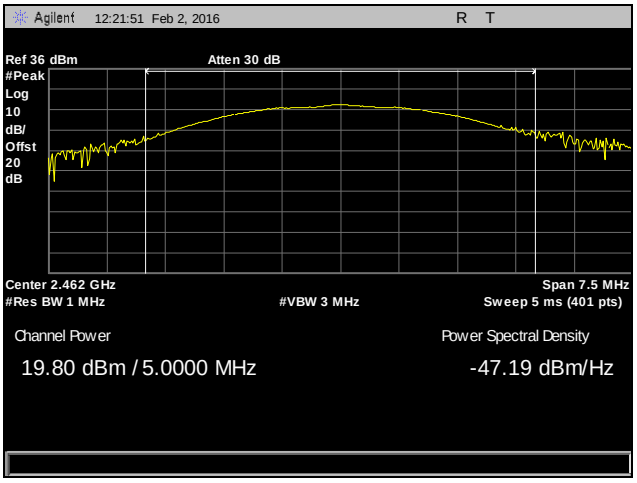
Peak Power Output Test Results, 802.11b 5 MHz, Yagi Antenna



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

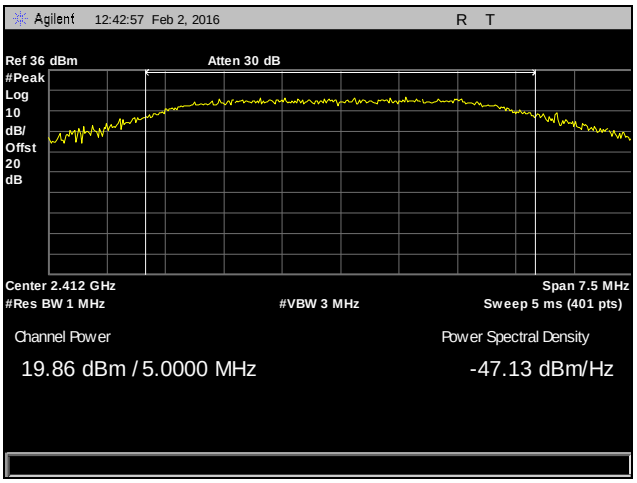


Plot 103. Peak Power Output, Mid Channel, 802.11b 5 MHz, Yagi Antenna

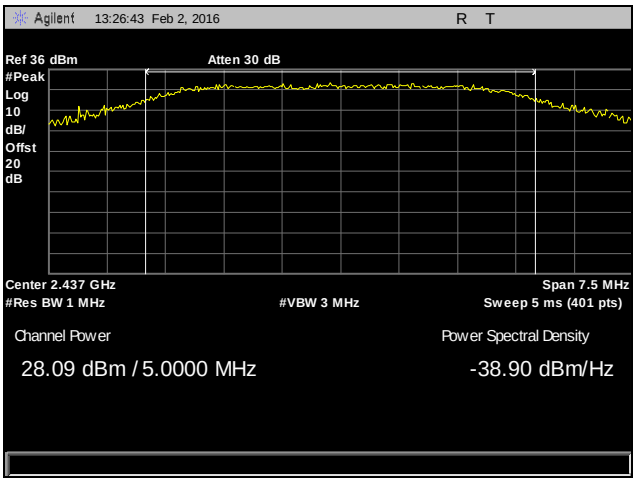


Plot 104. Peak Power Output, High Channel, 802.11b 5 MHz, Yagi Antenna

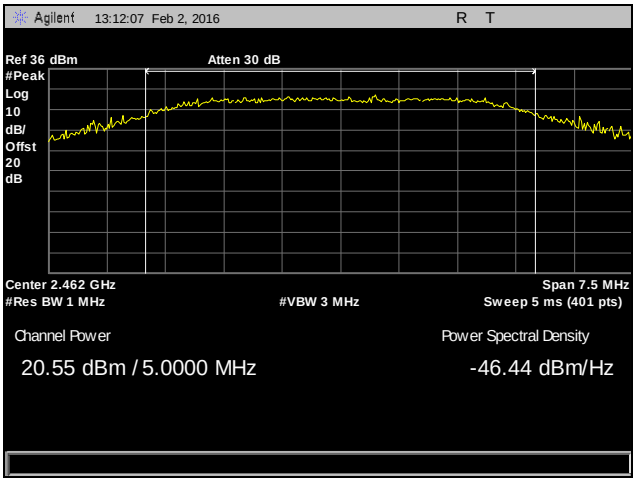
Peak Power Output Test Results, 802.11g 5 MHz, Yagi Antenna



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

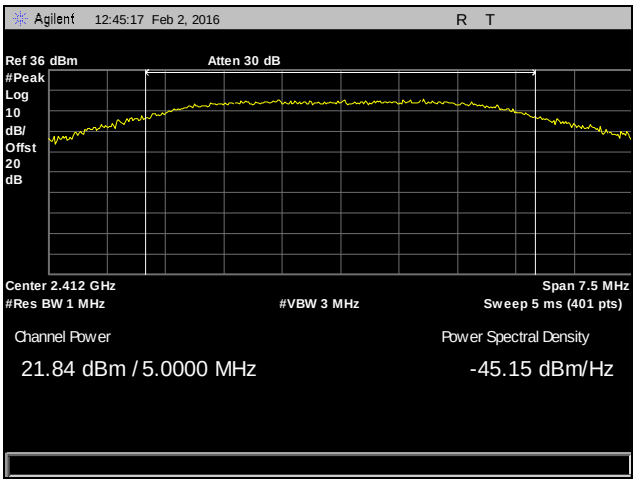


Plot 106. Peak Power Output, Mid Channel, 802.11g 5 MHz, Yagi Antenna

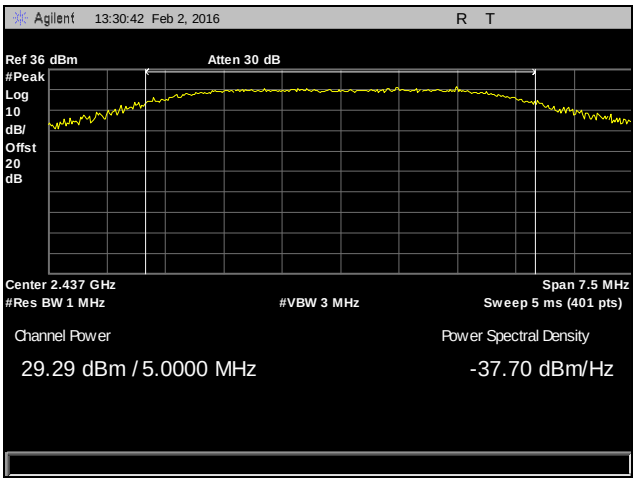


Plot 107. Peak Power Output, High Channel, 802.11g 5 MHz, Yagi Antenna

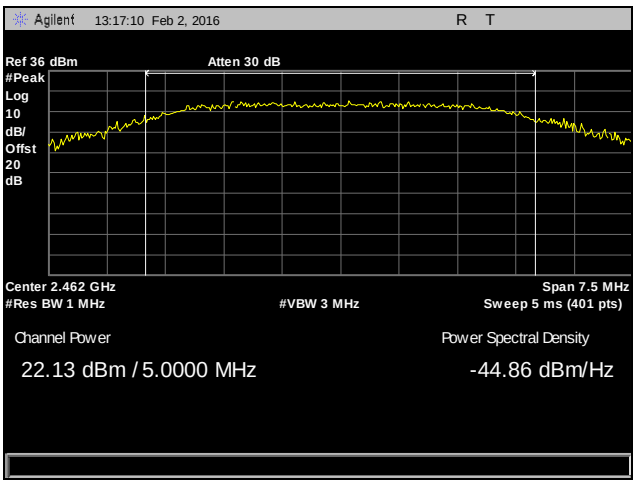
Peak Power Output Test Results, 802.11n 5 MHz, Yagi Antenna



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

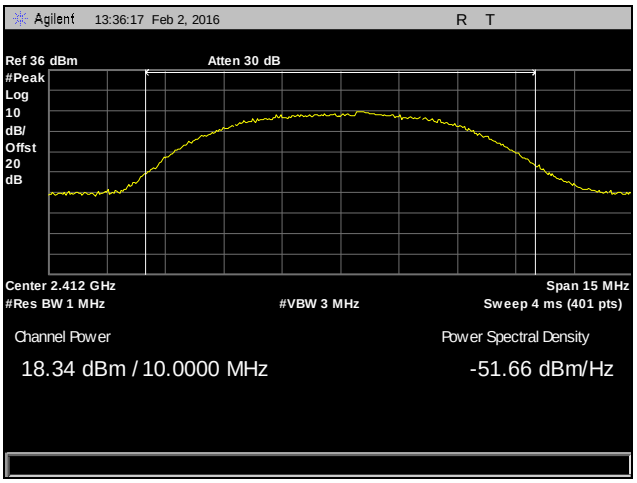


Plot 109. Peak Power Output, Mid Channel, 802.11n 5 MHz, Yagi Antenna

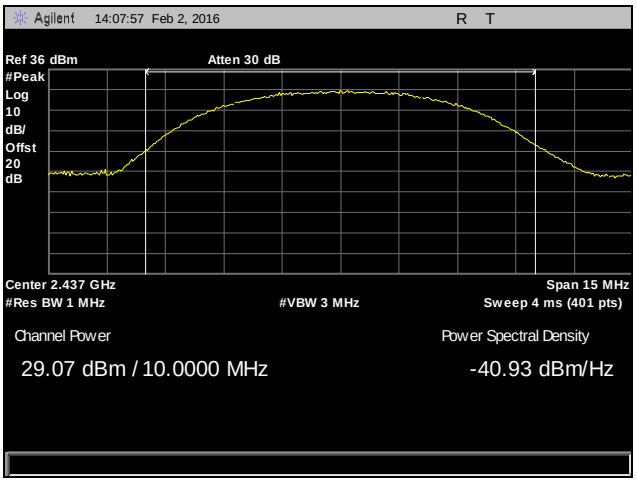


Plot 110. Peak Power Output, High Channel, 802.11n 5 MHz, Yagi Antenna

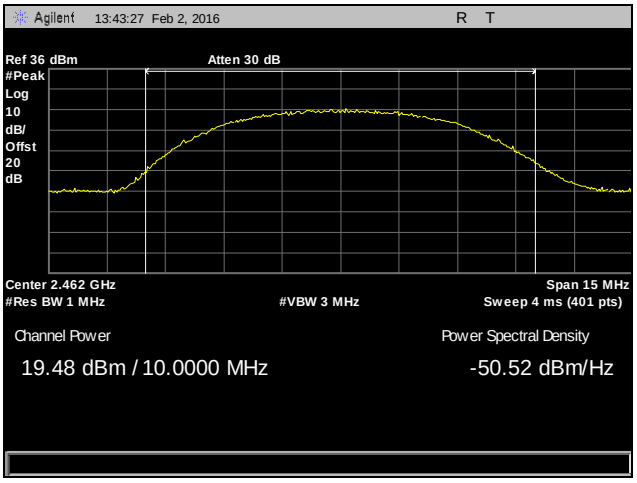
Peak Power Output Test Results, 802.11b 10 MHz, Yagi Antenna



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

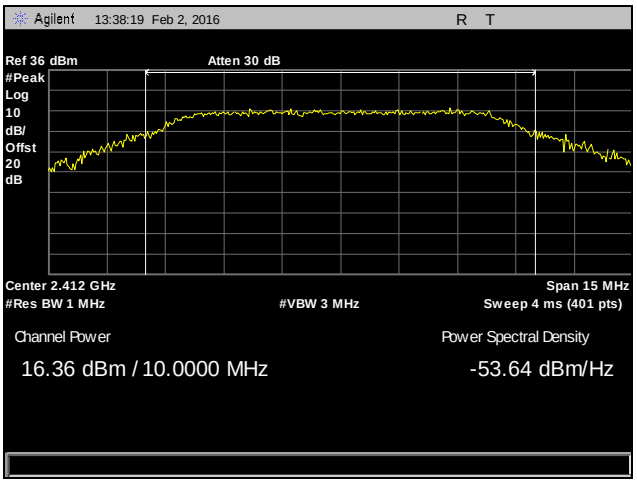


Plot 112. Peak Power Output, Mid Channel, 802.11b 10 MHz, Yagi Antenna

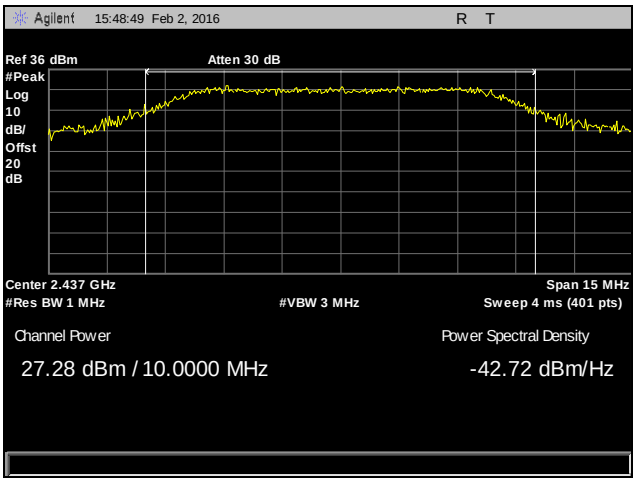


Plot 113. Peak Power Output, High Channel, 802.11b 10 MHz, Yagi Antenna

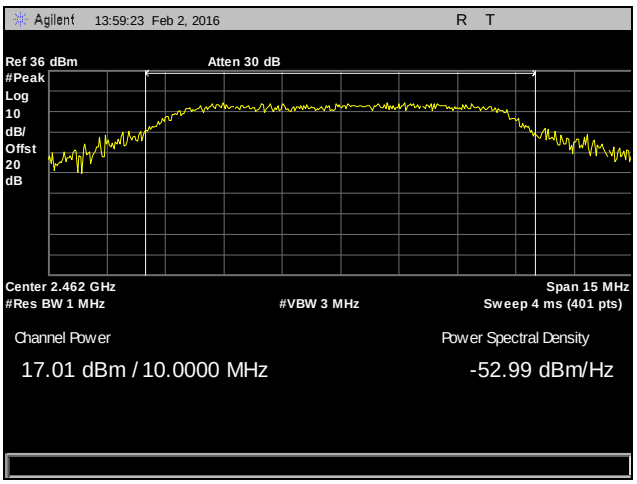
Peak Power Output Test Results, 802.11g 10 MHz, Yagi Antenna



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

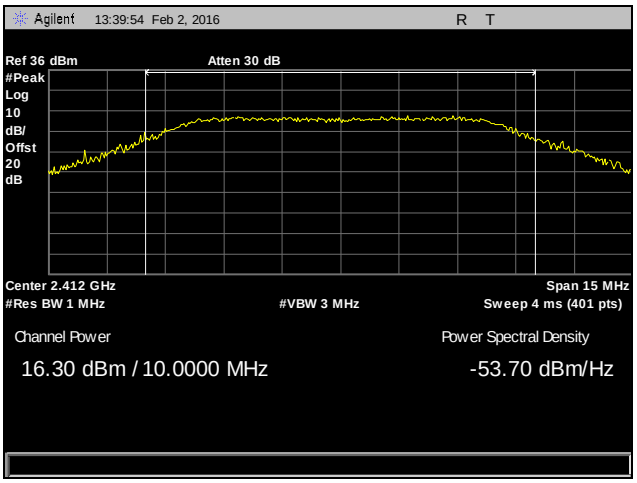


Plot 115. Peak Power Output, Mid Channel, 802.11g 10 MHz, Yagi Antenna

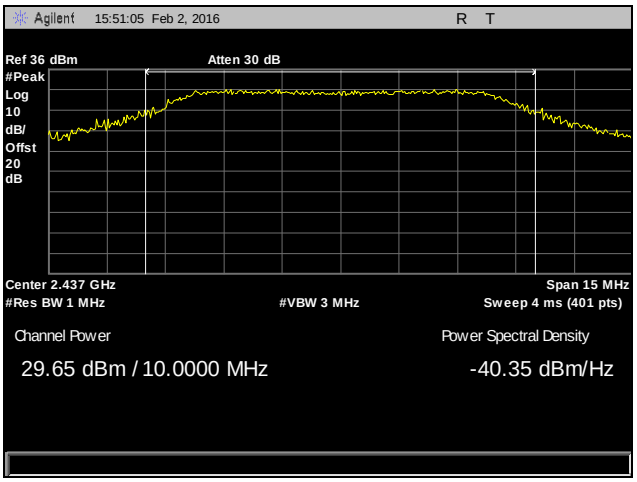


Plot 116. Peak Power Output, High Channel, 802.11g 10 MHz, Yagi Antenna

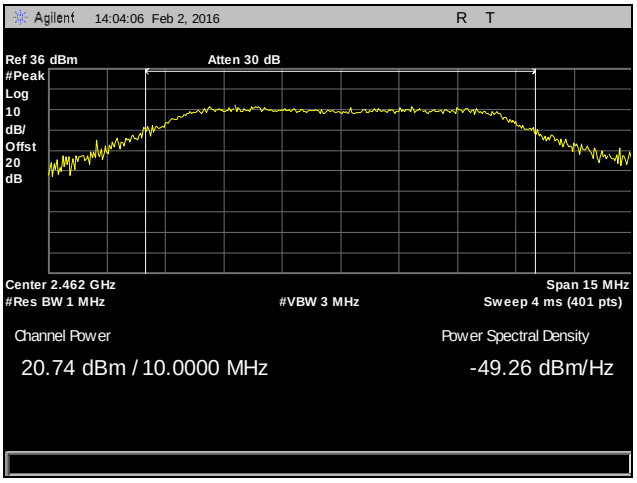
Peak Power Output Test Results, 802.11n 10 MHz, Yagi Antenna



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

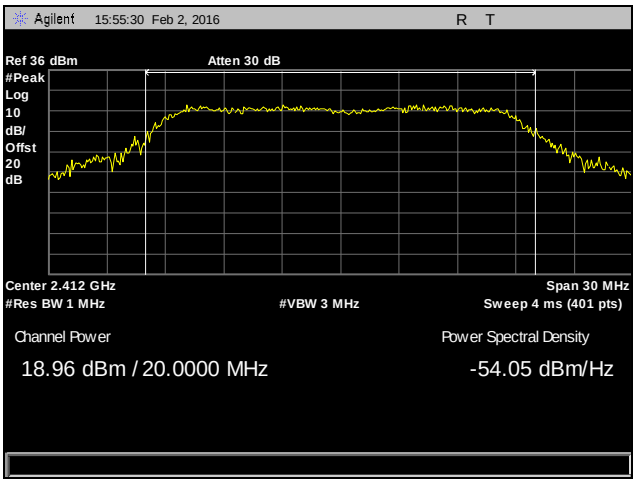


Plot 118. Peak Power Output, Mid Channel, 802.11n 10 MHz, Yagi Antenna

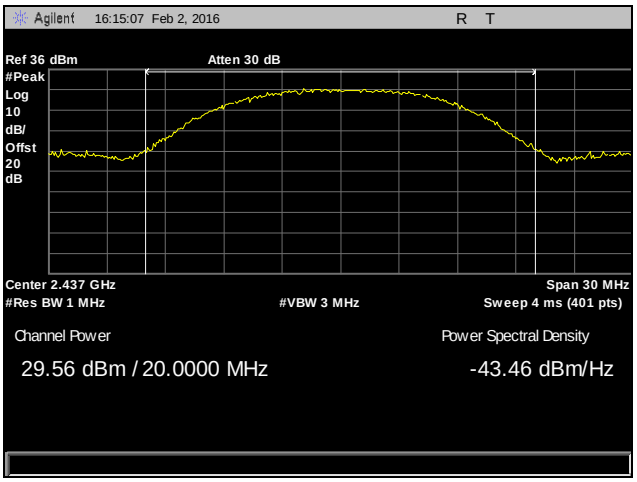


Plot 119. Peak Power Output, High Channel, 802.11n 10 MHz, Yagi Antenna

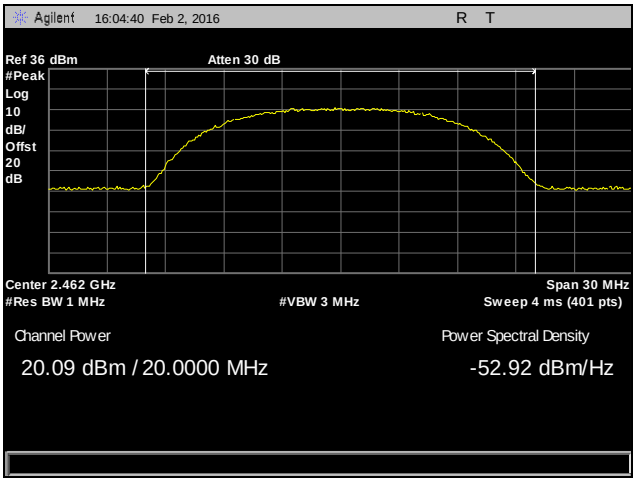
Peak Power Output Test Results, 802.11b 20 MHz, Yagi Antenna



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

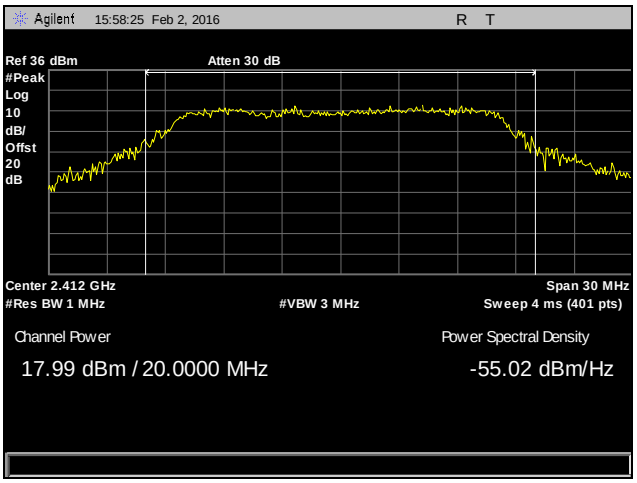


Plot 121. Peak Power Output, Mid Channel, 802.11b 20 MHz, Yagi Antenna

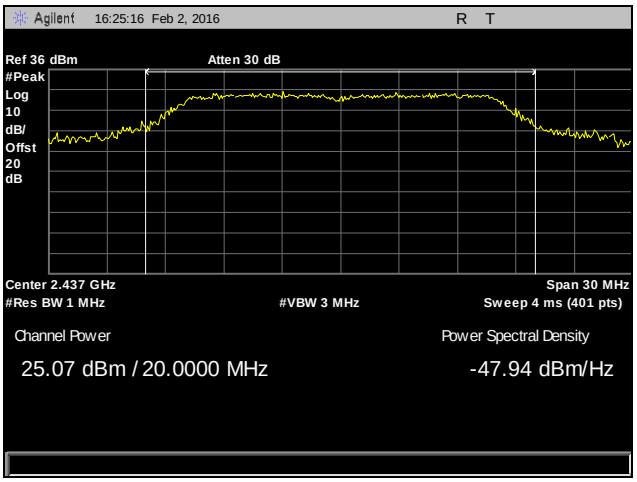


Plot 122. Peak Power Output, High Channel, 802.11b 20 MHz, Yagi Antenna

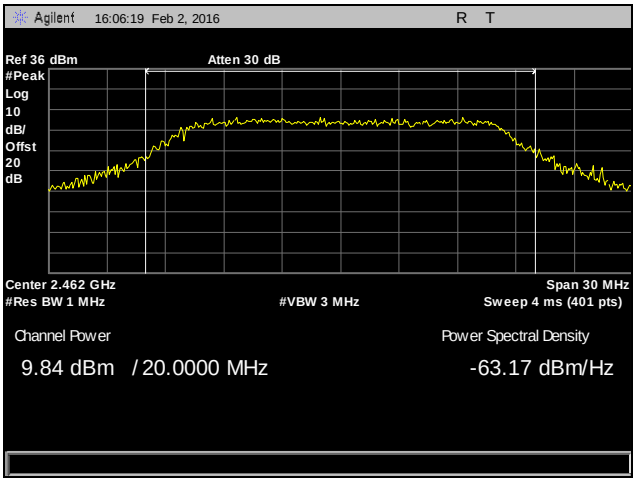
Peak Power Output Test Results, 802.11g 20 MHz, Yagi Antenna



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

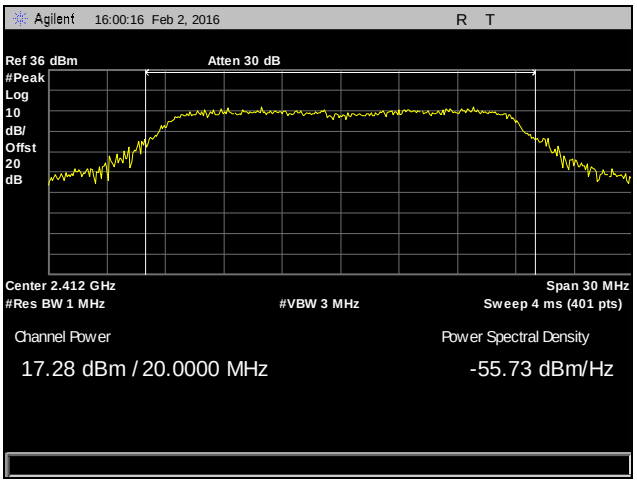


Plot 124. Peak Power Output, Mid Channel, 802.11g 20 MHz, Yagi Antenna

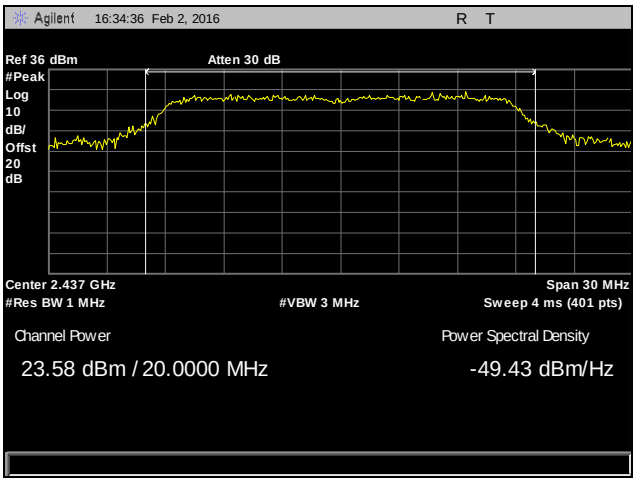


Plot 125. Peak Power Output, High Channel, 802.11g 20 MHz, Yagi Antenna

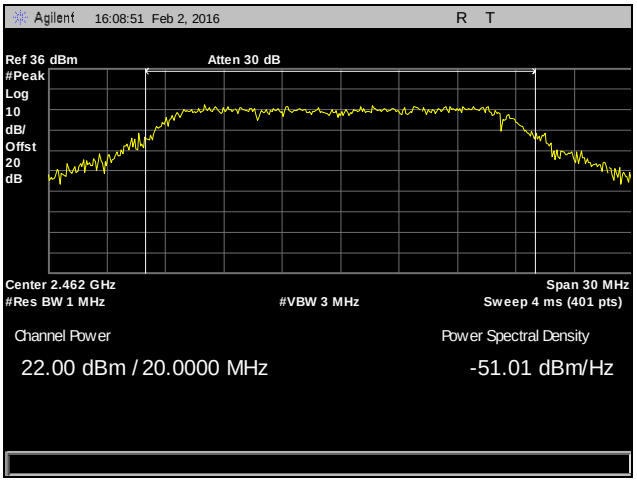
Peak Power Output Test Results, 802.11n 20 MHz, Yagi Antenna



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

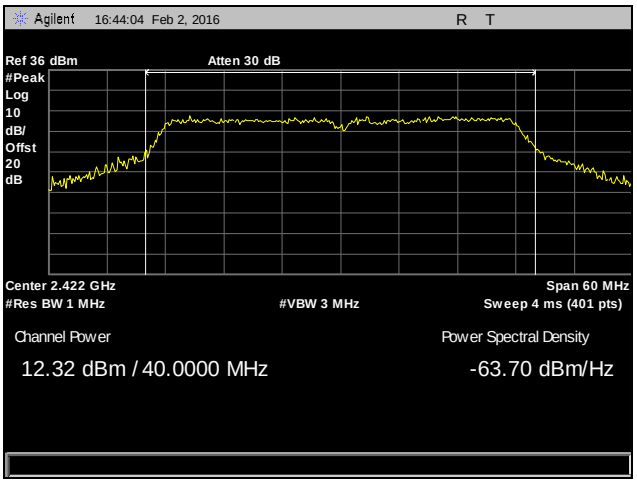


Plot 127. Peak Power Output, Mid Channel, 802.11n 20 MHz, Yagi Antenna

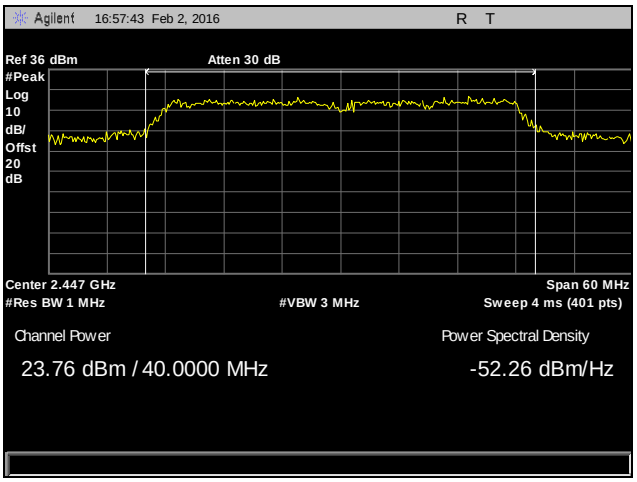


Plot 128. Peak Power Output, High Channel, 802.11n 20 MHz, Yagi Antenna

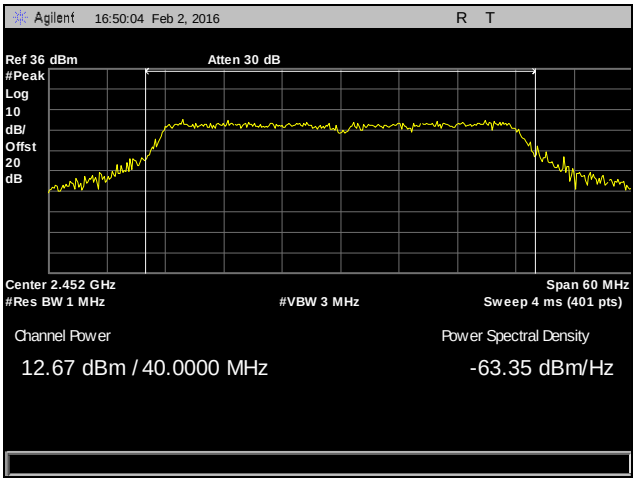
Peak Power Output Test Results, 802.11g 40 MHz, Yagi Antenna



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

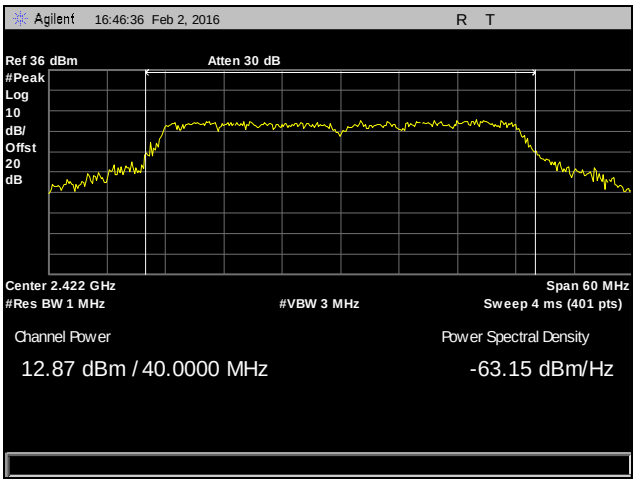


Plot 130. Peak Power Output, Mid Channel, 802.11g 40 MHz, Yagi Antenna

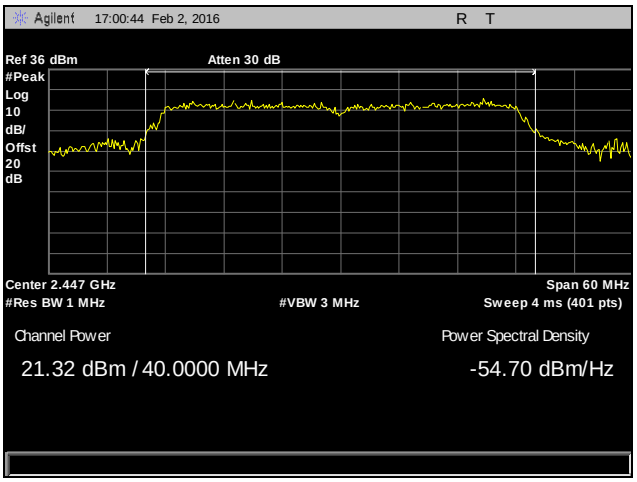


Plot 131. Peak Power Output, High Channel, 802.11g 40 MHz, Yagi Antenna

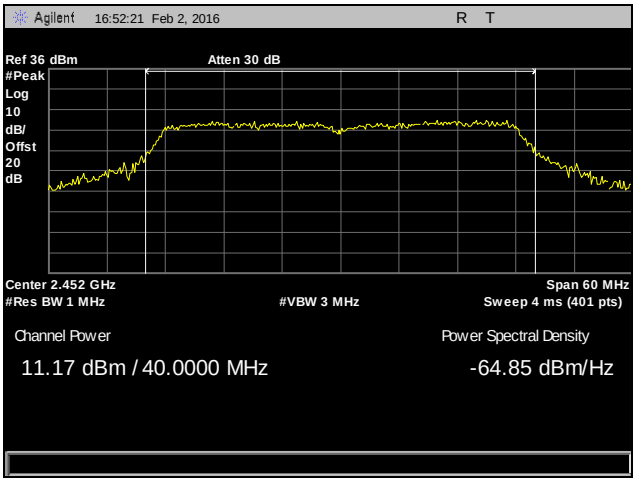
Peak Power Output Test Results, 802.11n 40 MHz, Yagi Antenna



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
[1] 0.495–0.505----------	16.69475–16.69525	608–614	5.35–5.46
2.1735–2.1905----------	16.80425–16.80475	960–1240	7.25–7.75
4.125–4.128----------	25.5–25.67	1300–1427	8.025–8.5
4.17725–4.17775----------	37.5–38.25	1435–1626.5	9.0–9.2
4.20725–4.20775----------	73–74.6	1645.5–1646.5	9.3–9.5
6.215–6.218----------	74.8–75.2	1660–1710	10.6–12.7
6.26775–6.26825----------	108–121.94	1718.8–1722.2	13.25–13.4
6.31175–6.31225----------	123–138	2200–2300	14.47–14.5
8.291–8.294----------	149.9–150.05	2310–2390	15.35–16.2
8.362–8.366----------	156.52475–156.52525	2483.5–2500	17.7–21.4
8.37625–8.38675----------	156.7–156.9	2655–2900	22.01–23.12
8.41425–8.41475----------	162.0125–167.17	3260–3267	23.6–24.0
12.29–12.293----------	167.72–173.2	3332–3339	31.2–31.8
12.51975–12.52025----------	240–285	3345.8–3358 36.	43–36.5
12.57675–12.57725----------	322–335.4	3600–4400	([2])

Table 19. Restricted Bands of Operation

[1] Until February 1, 1999, this restricted band shall be 0.490 – 0.510 MHz.
[2] 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 (dBµV) @ 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

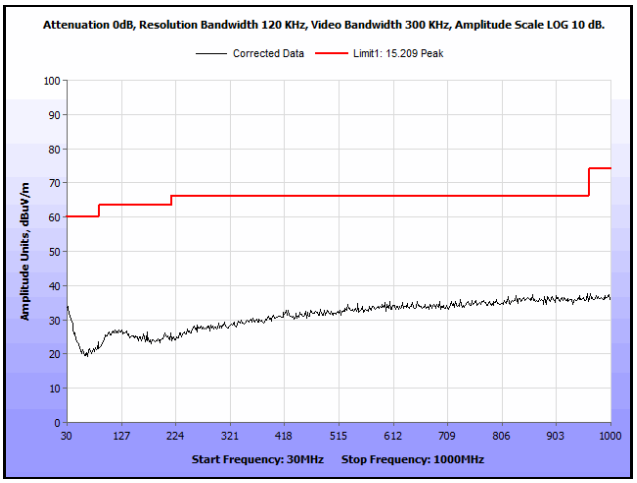
Test Procedures: The transmitter was turned on. Measurements were performed of the low, mid and high Channels. The EUT was rotated orthogonally through all three axes. Plots shown are corrected for both antenna correction factor and distance and compared to a 3 m limit line.

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

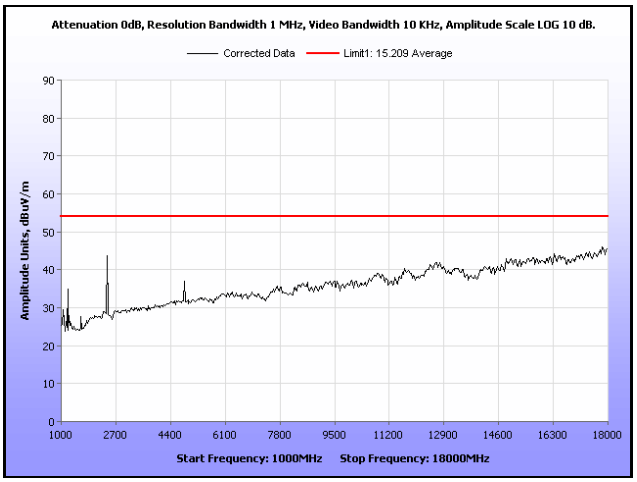
Test Engineer(s): Arsalan Hasan

Test Date(s): 02/15/16

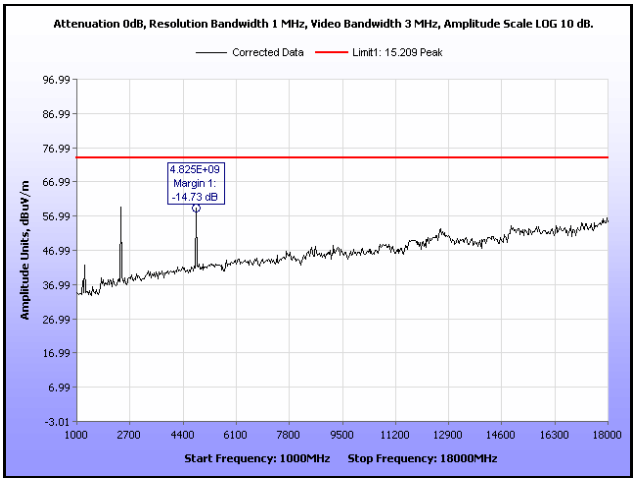
Radiated Spurious Emissions Test Results, 802.11b 5 MHz, Omni Antenna



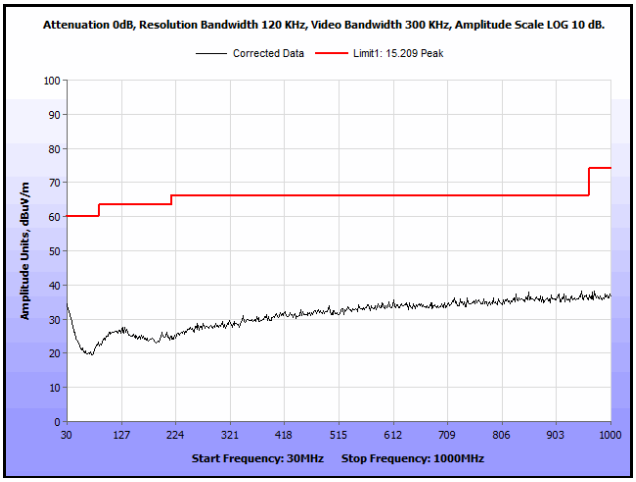
Plot 135. Radiated Spurious Emissions, Low Channel, 802.11b 5 MHz, Omni Antenna, 30 MHz – 1 GHz



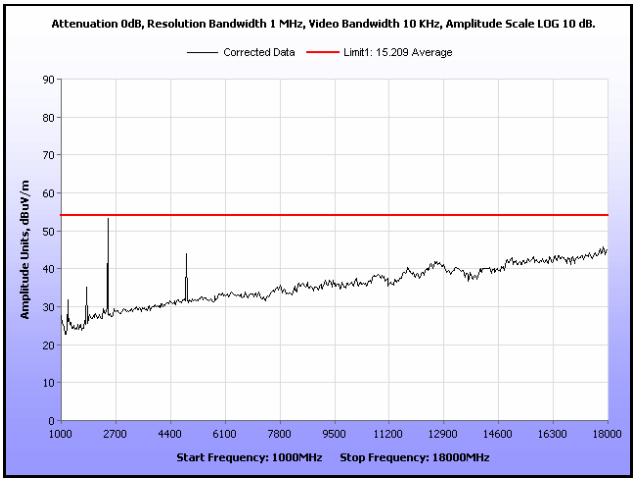
Plot 136. Radiated Spurious Emissions, Low Channel, 802.11b 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Average



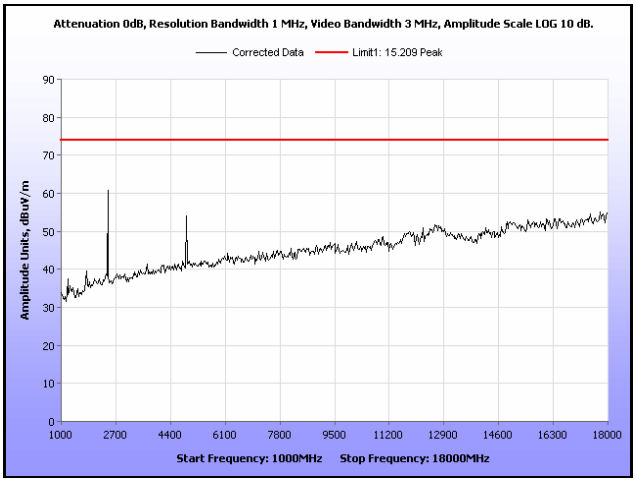
Plot 137. Radiated Spurious Emissions, Low Channel, 802.11b 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak



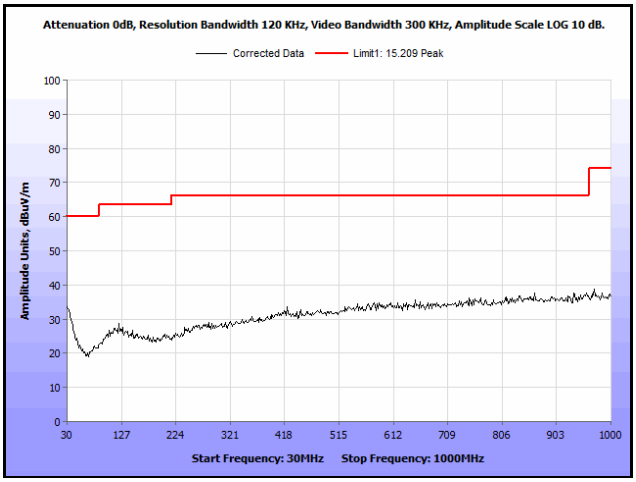
Plot 138. Radiated Spurious Emissions, Mid Channel, 802.11b 5 MHz, Omni Antenna, 30 MHz – 1 GHz



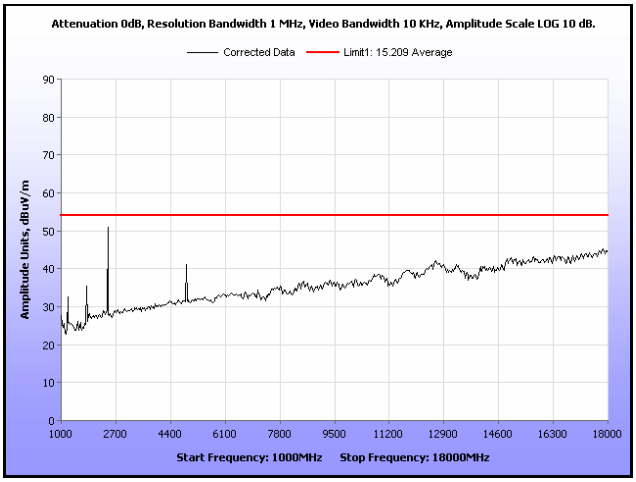
Plot 139. Radiated Spurious Emissions, Mid Channel, 802.11b 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Average



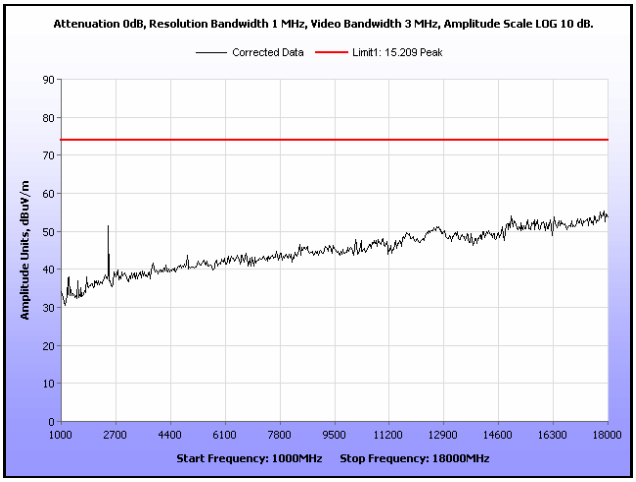
Plot 140. Radiated Spurious Emissions, Mid Channel, 802.11b 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak



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

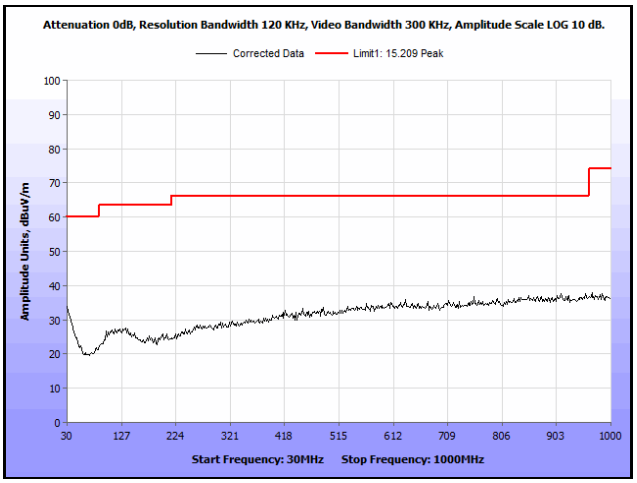


Plot 142. Radiated Spurious Emissions, High Channel, 802.11b 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Average

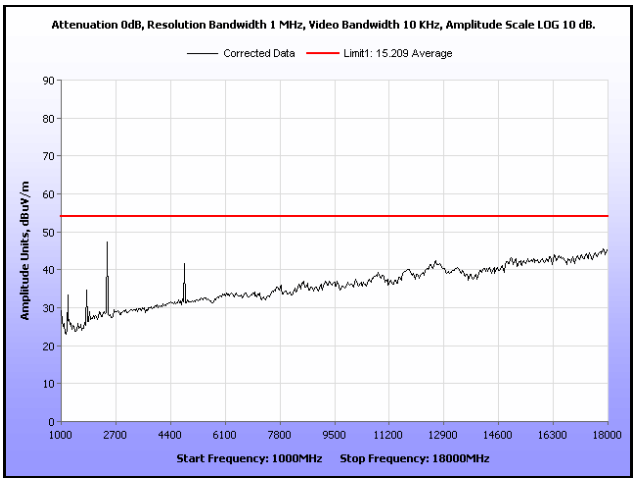


Plot 143. Radiated Spurious Emissions, High Channel, 802.11b 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak

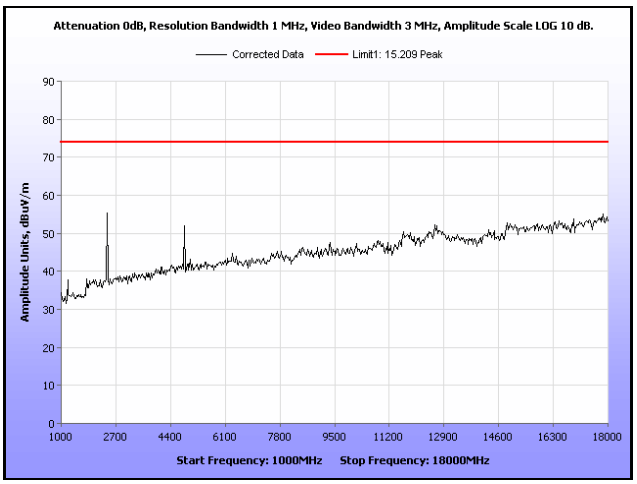
Radiated Spurious Emissions Test Results, 802.11g 5 MHz, Omni Antenna



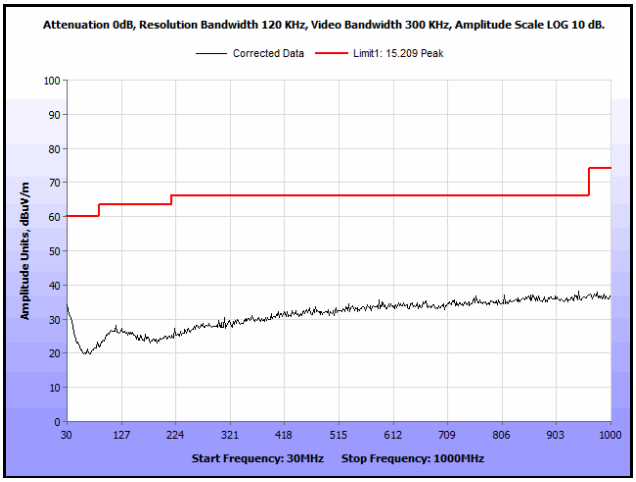
Plot 144. Radiated Spurious Emissions, Low Channel, 802.11g 5 MHz, Omni Antenna, 30 MHz – 1 GHz



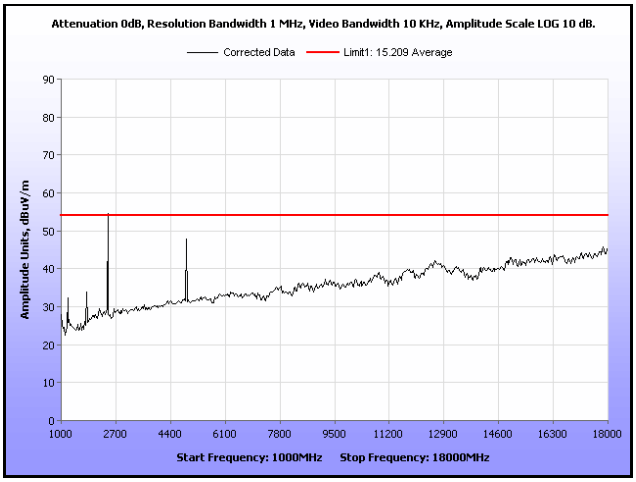
Plot 145. Radiated Spurious Emissions, Low Channel, 802.11g 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Average



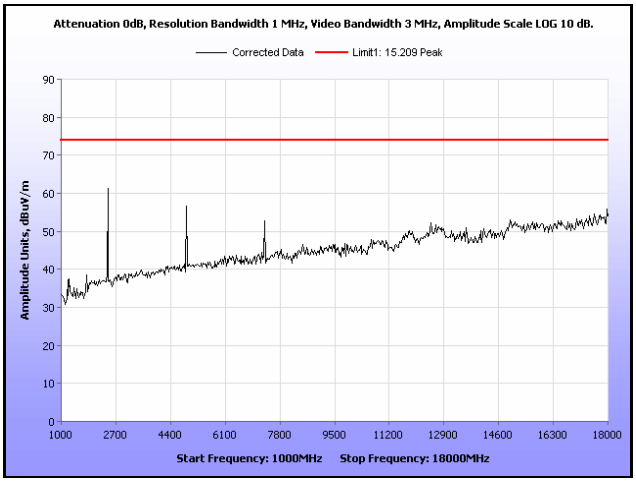
Plot 146. Radiated Spurious Emissions, Low Channel, 802.11g 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak



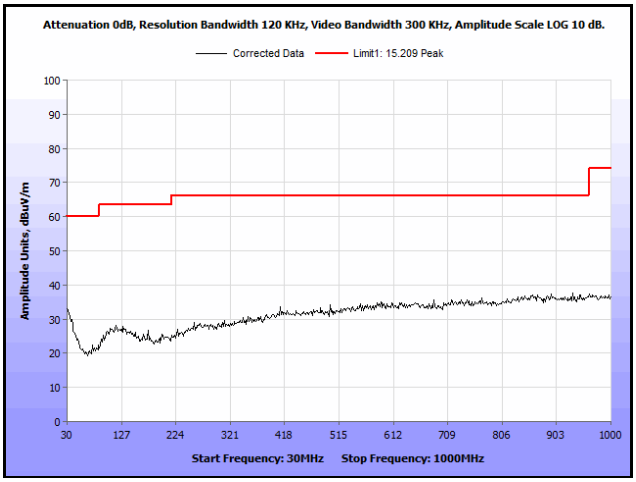
Plot 147. Radiated Spurious Emissions, Mid Channel, 802.11g 5 MHz, Omni Antenna, 30 MHz – 1 GHz



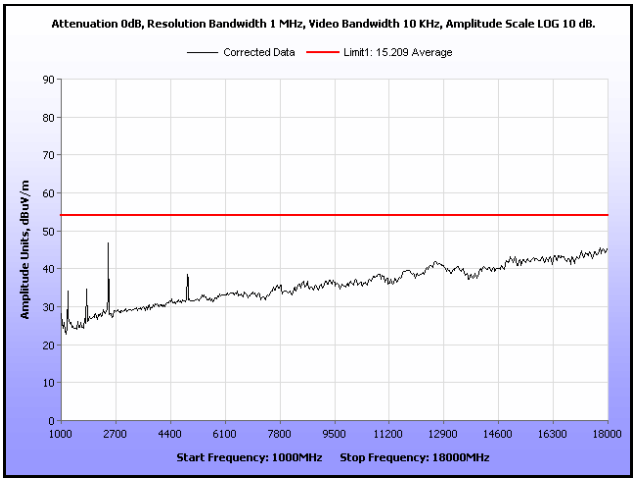
Plot 148. Radiated Spurious Emissions, Mid Channel, 802.11g 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Average



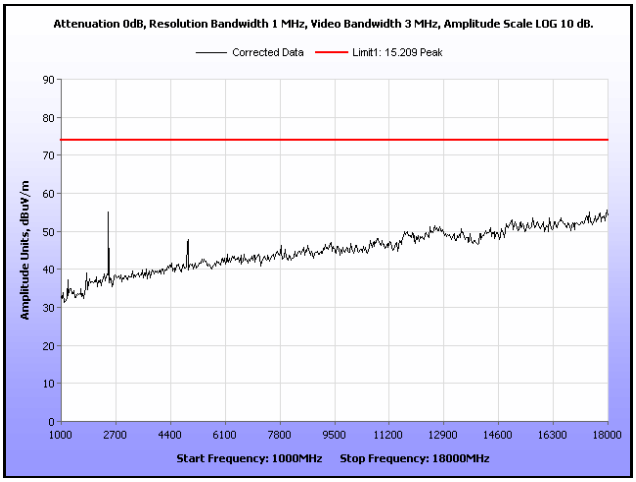
Plot 149. Radiated Spurious Emissions, Mid Channel, 802.11g 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak



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

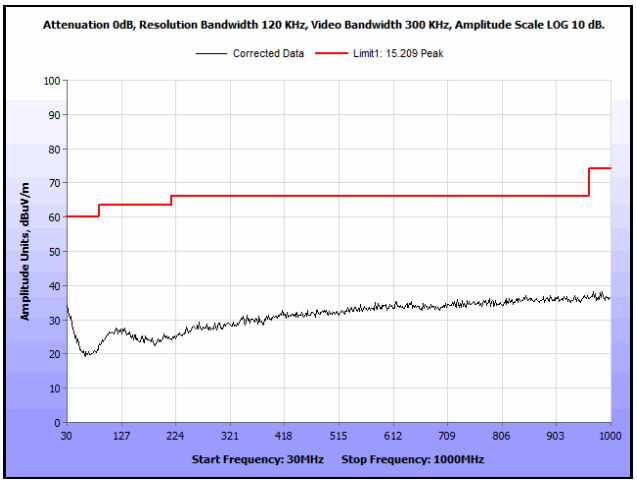


Plot 151. Radiated Spurious Emissions, High Channel, 802.11g 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Average

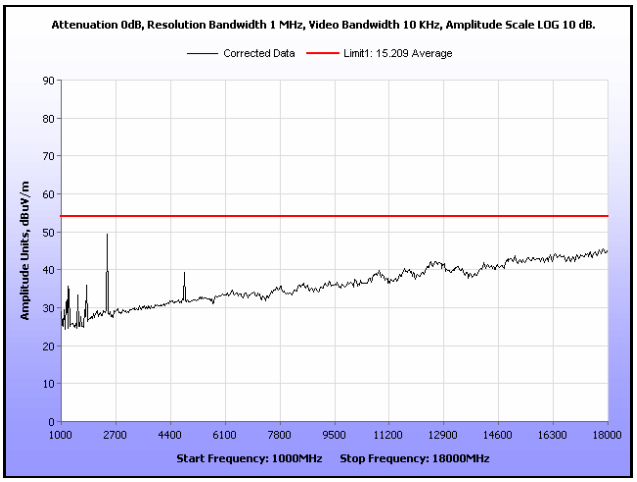


Plot 152. Radiated Spurious Emissions, High Channel, 802.11g 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak

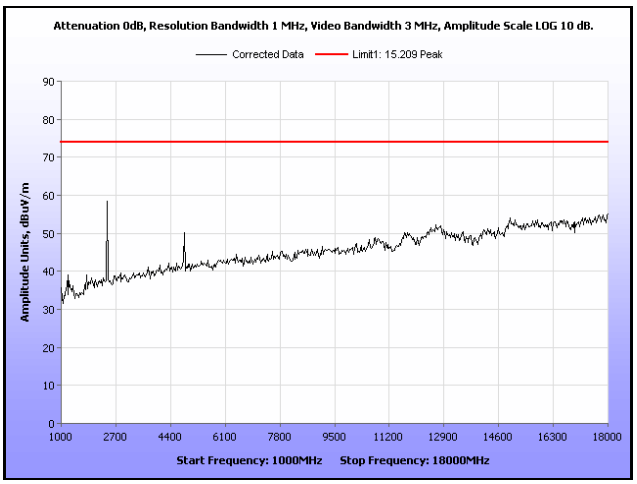
Radiated Spurious Emissions Test Results, 802.11n 5 MHz, Omni Antenna



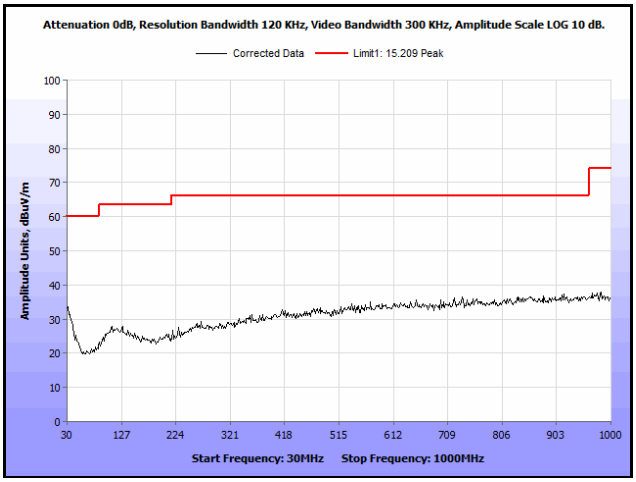
Plot 153. Radiated Spurious Emissions, Low Channel, 802.11n 5 MHz, Omni Antenna, 30 MHz – 1 GHz



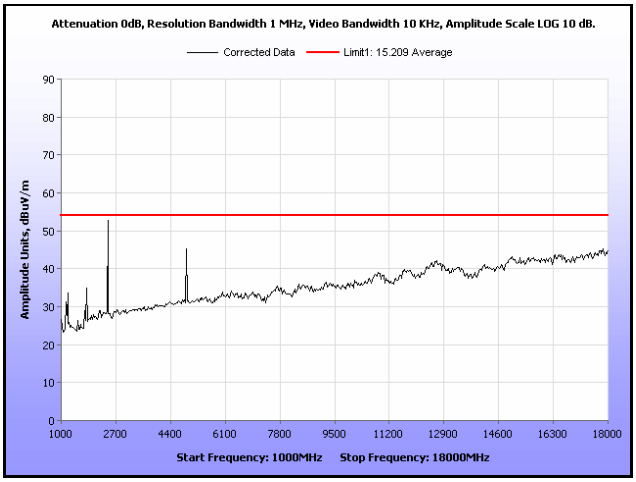
Plot 154. Radiated Spurious Emissions, Low Channel, 802.11n 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Average



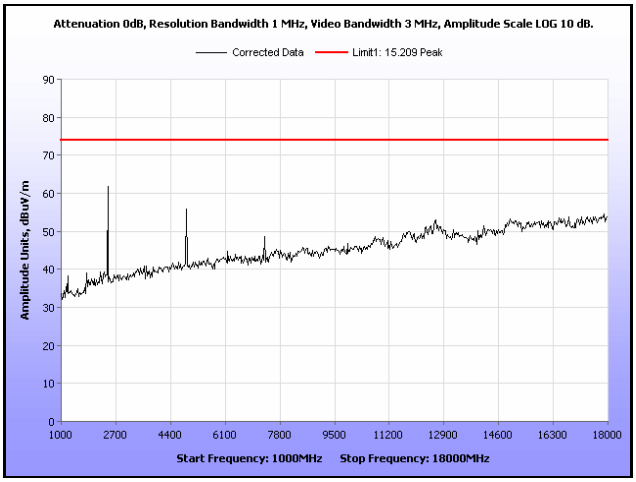
Plot 155. Radiated Spurious Emissions, Low Channel, 802.11n 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak



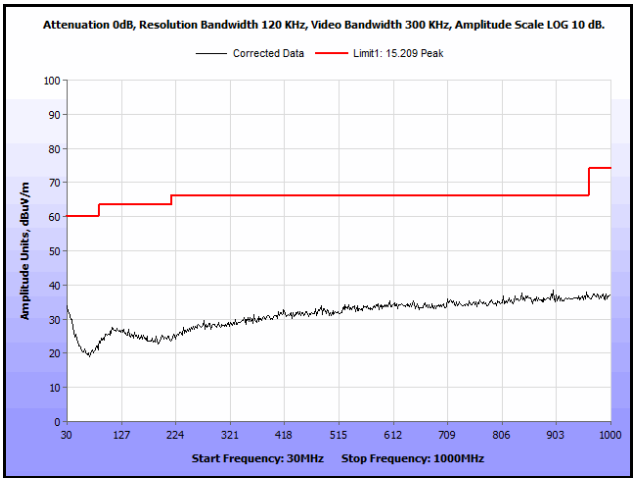
Plot 156. Radiated Spurious Emissions, Mid Channel, 802.11n 5 MHz, Omni Antenna, 30 MHz – 1 GHz



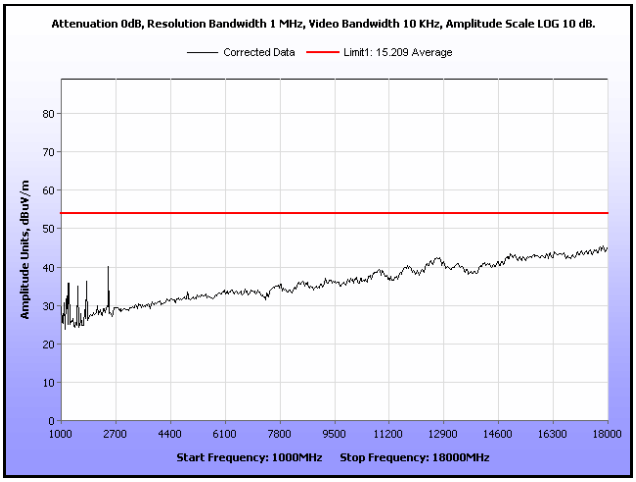
Plot 157. Radiated Spurious Emissions, Mid Channel, 802.11n 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Average



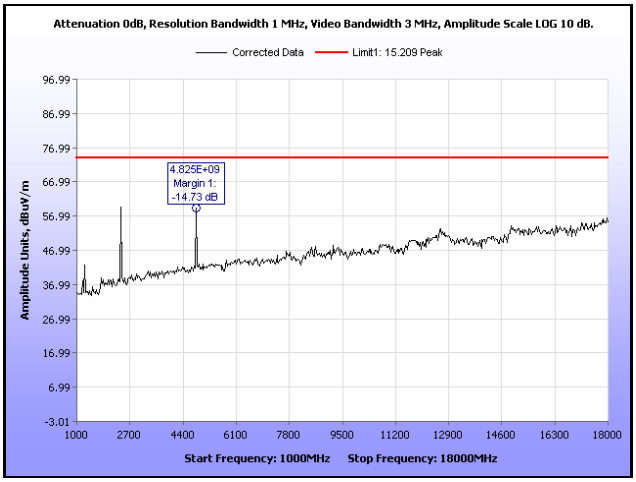
Plot 158. Radiated Spurious Emissions, Mid Channel, 802.11n 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak



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

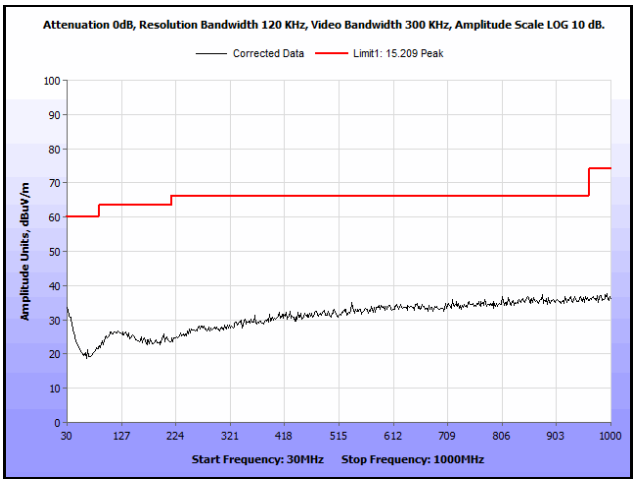


Plot 160. Radiated Spurious Emissions, High Channel, 802.11n 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Average

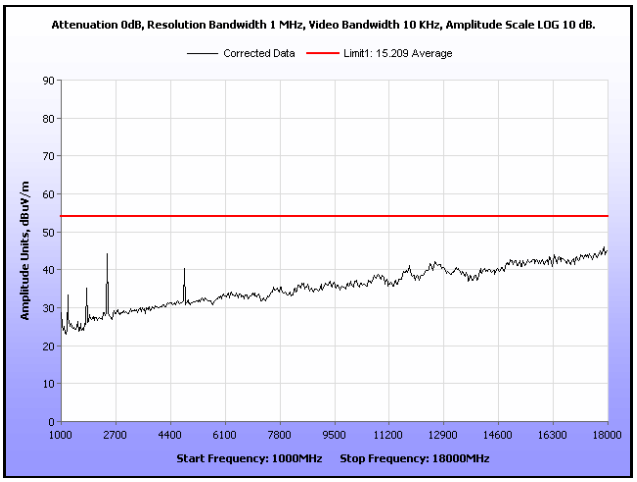


Plot 161. Radiated Spurious Emissions, High Channel, 802.11n 5 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak

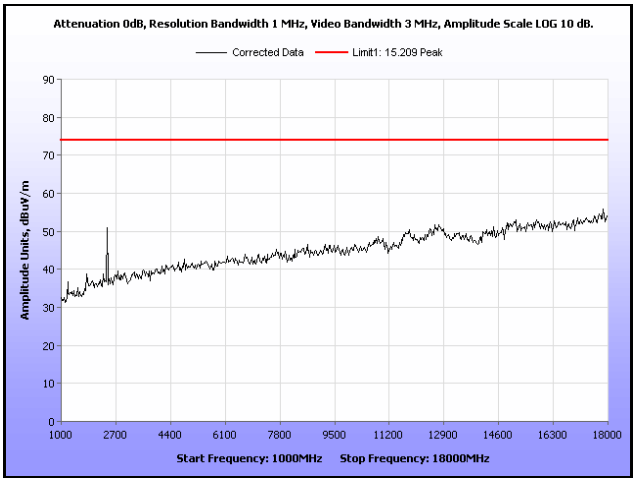
Radiated Spurious Emissions Test Results, 802.11b 10 MHz, Omni Antenna



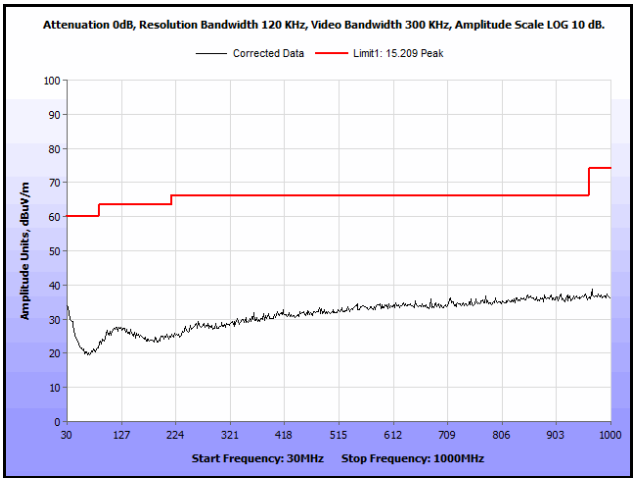
Plot 162. Radiated Spurious Emissions, Low Channel, 802.11b 10 MHz, Omni Antenna, 30 MHz – 1 GHz



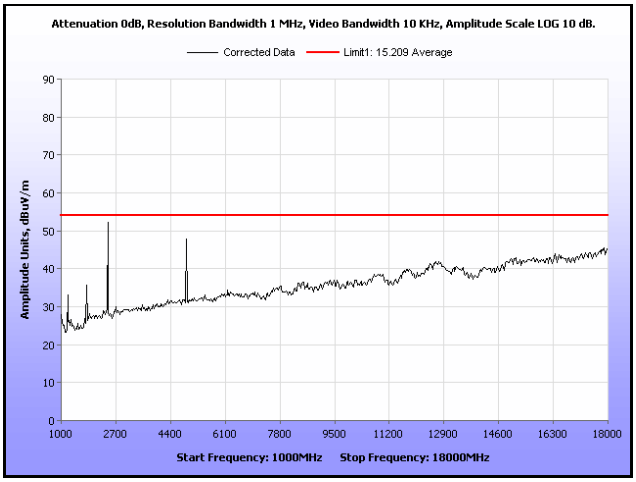
Plot 163. Radiated Spurious Emissions, Low Channel, 802.11b 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Average



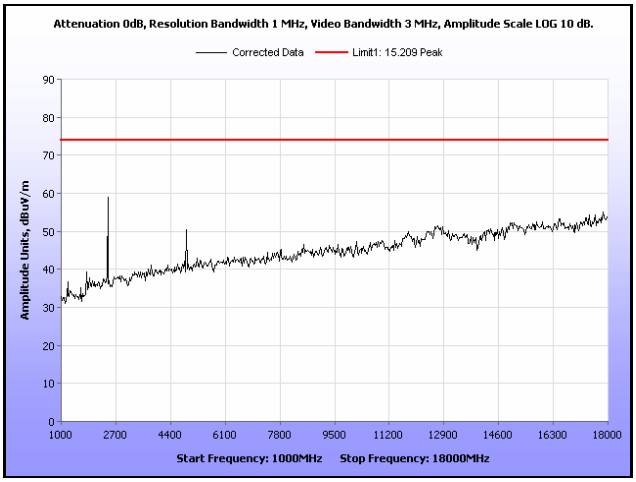
Plot 164. Radiated Spurious Emissions, Low Channel, 802.11b 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak



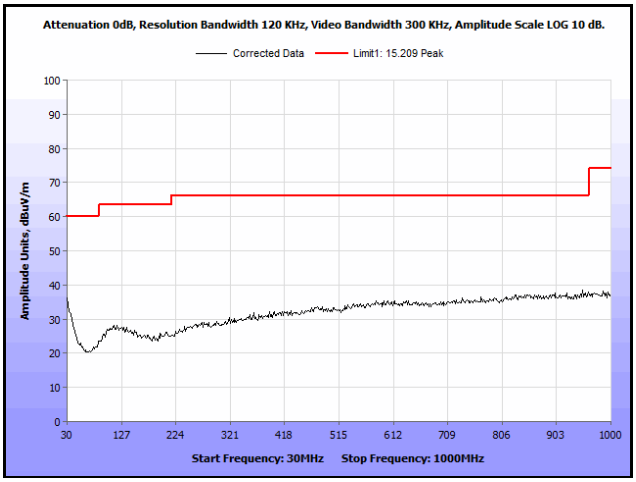
Plot 165. Radiated Spurious Emissions, Mid Channel, 802.11b 10 MHz, Omni Antenna, 30 MHz – 1 GHz



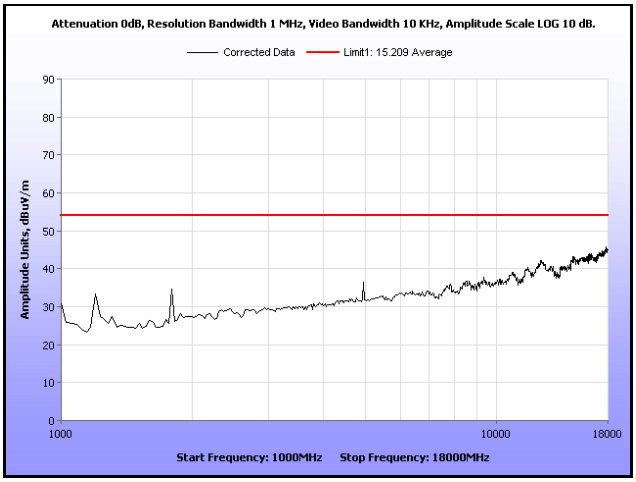
Plot 166. Radiated Spurious Emissions, Mid Channel, 802.11b 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Average



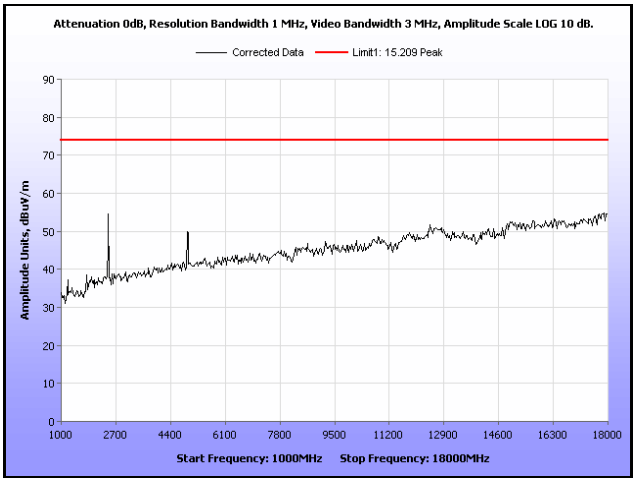
Plot 167. Radiated Spurious Emissions, Mid Channel, 802.11b 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak



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

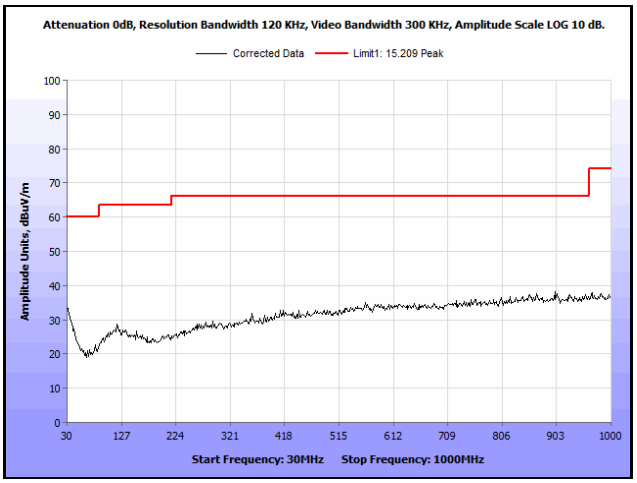


Plot 169. Radiated Spurious Emissions, High Channel, 802.11b 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Average

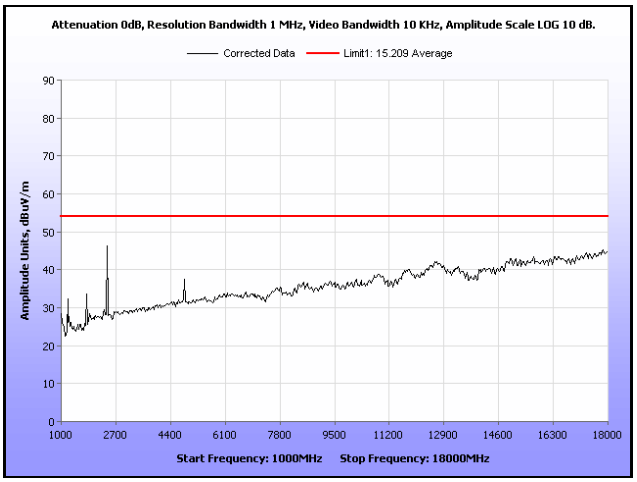


Plot 170. Radiated Spurious Emissions, High Channel, 802.11b 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak

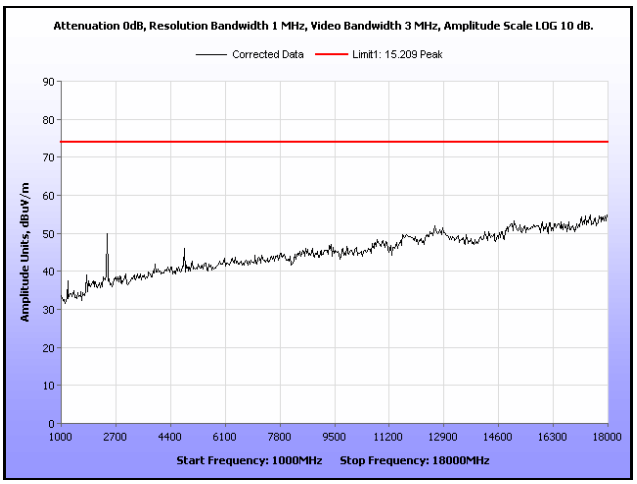
Radiated Spurious Emissions Test Results, 802.11g 10 MHz, Omni Antenna



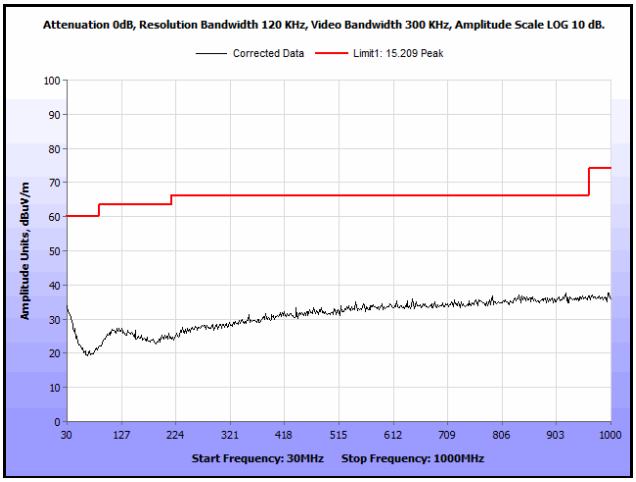
Plot 171. Radiated Spurious Emissions, Low Channel, 802.11g 10 MHz, Omni Antenna, 30 MHz – 1 GHz



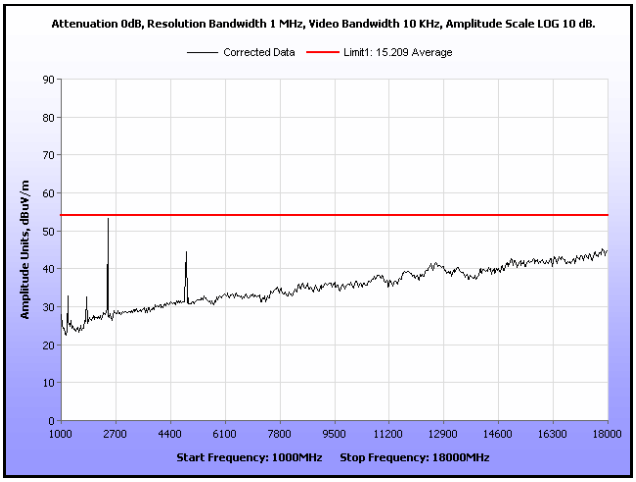
Plot 172. Radiated Spurious Emissions, Low Channel, 802.11g 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Average



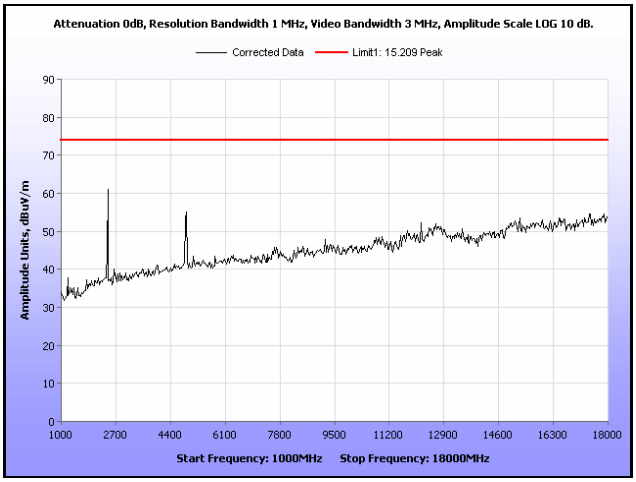
Plot 173. Radiated Spurious Emissions, Low Channel, 802.11g 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak



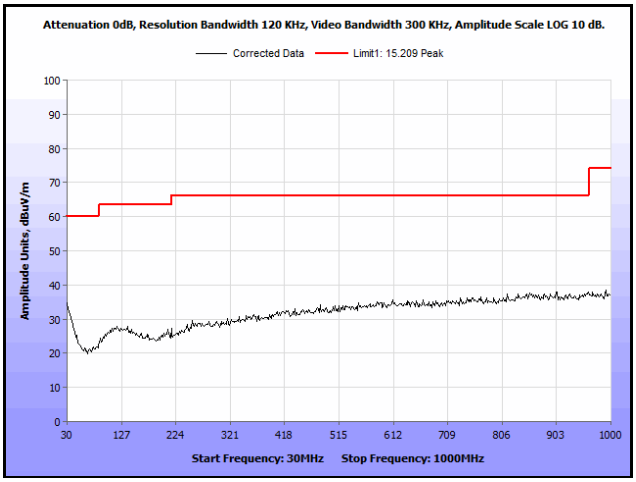
Plot 174. Radiated Spurious Emissions, Mid Channel, 802.11g 10 MHz, Omni Antenna, 30 MHz – 1 GHz



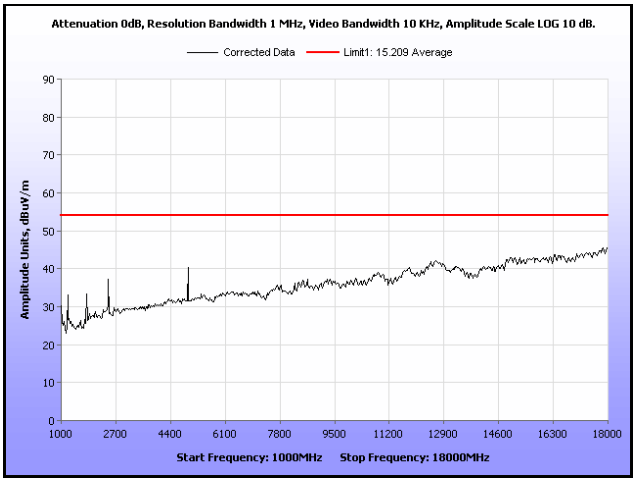
Plot 175. Radiated Spurious Emissions, Mid Channel, 802.11g 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Average



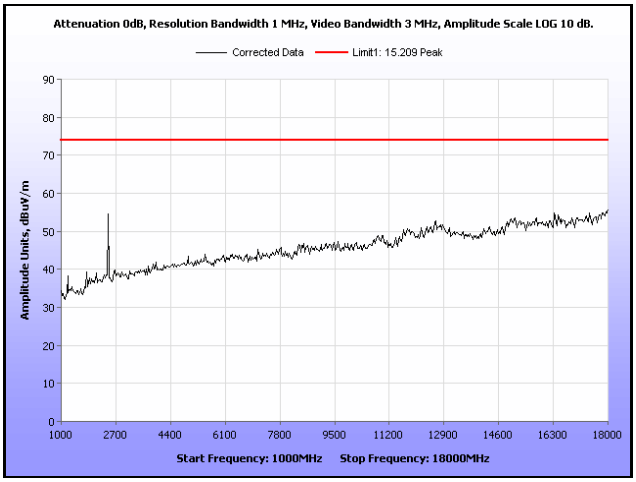
Plot 176. Radiated Spurious Emissions, Mid Channel, 802.11g 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak



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

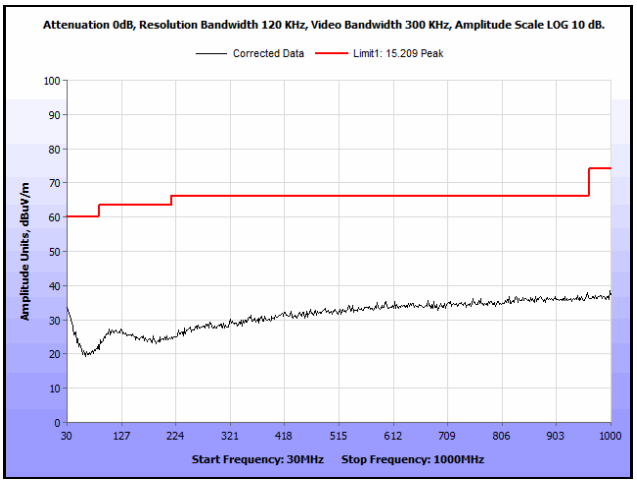


Plot 178. Radiated Spurious Emissions, High Channel, 802.11g 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Average

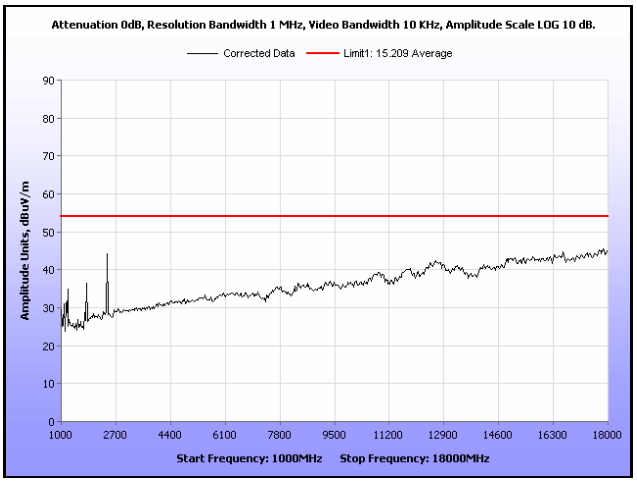


Plot 179. Radiated Spurious Emissions, High Channel, 802.11g 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak

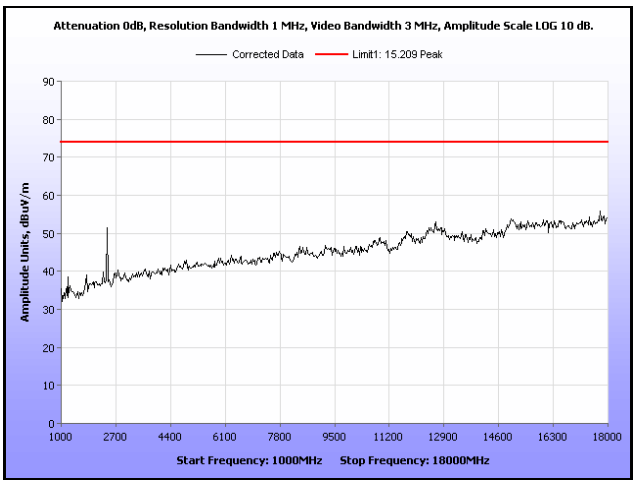
Radiated Spurious Emissions Test Results, 802.11n 10 MHz, Omni Antenna



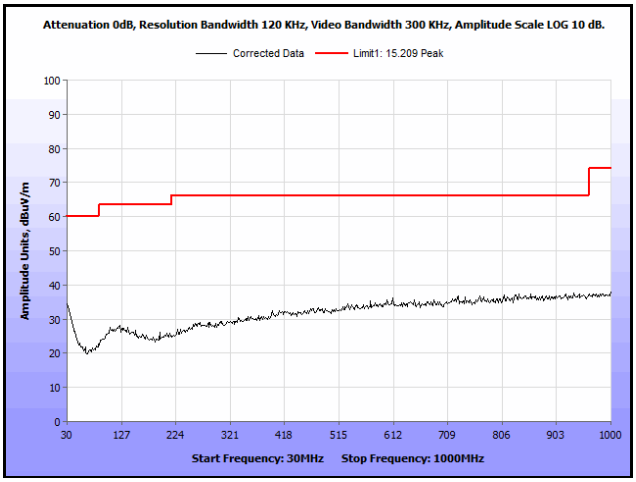
Plot 180. Radiated Spurious Emissions, Low Channel, 802.11n 10 MHz, Omni Antenna, 30 MHz – 1 GHz



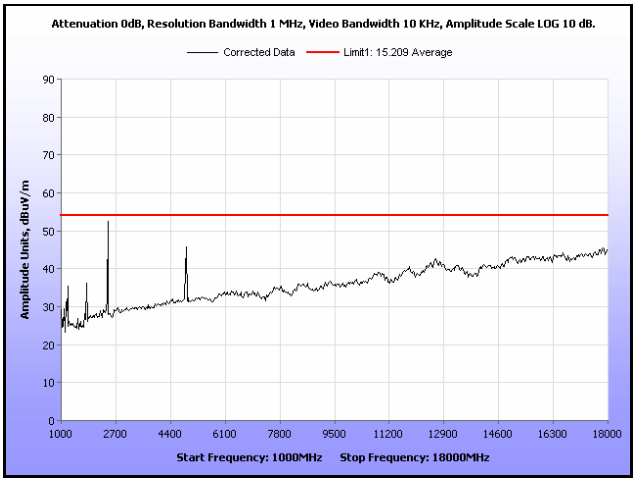
Plot 181. Radiated Spurious Emissions, Low Channel, 802.11n 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Average



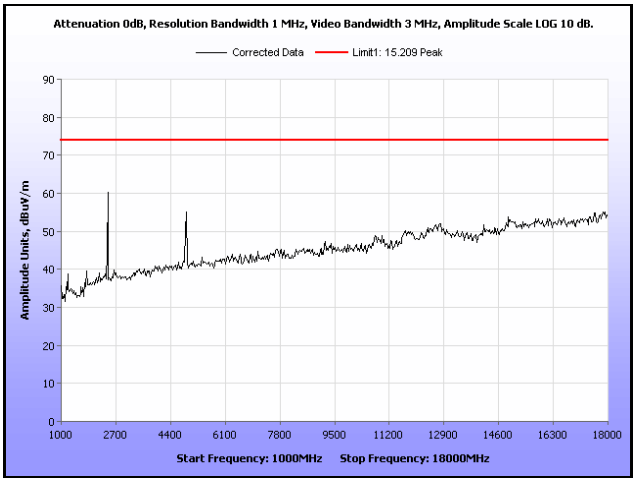
Plot 182. Radiated Spurious Emissions, Low Channel, 802.11n 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak



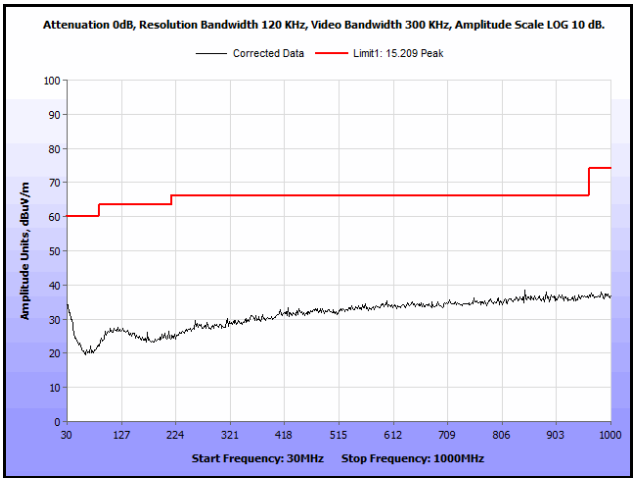
Plot 183. Radiated Spurious Emissions, Mid Channel, 802.11n 10 MHz, Omni Antenna, 30 MHz – 1 GHz



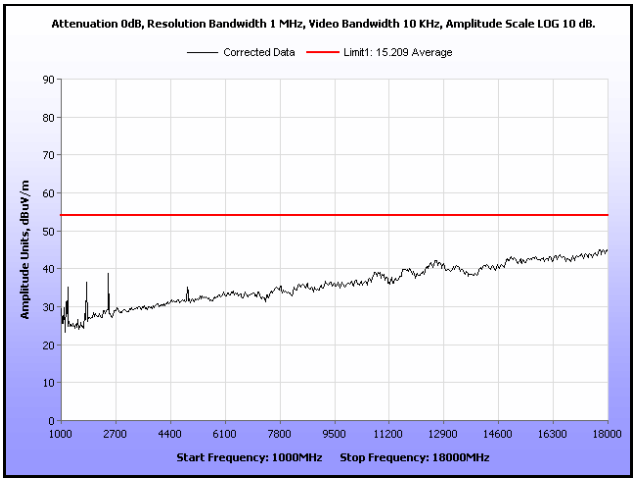
Plot 184. Radiated Spurious Emissions, Mid Channel, 802.11n 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Average



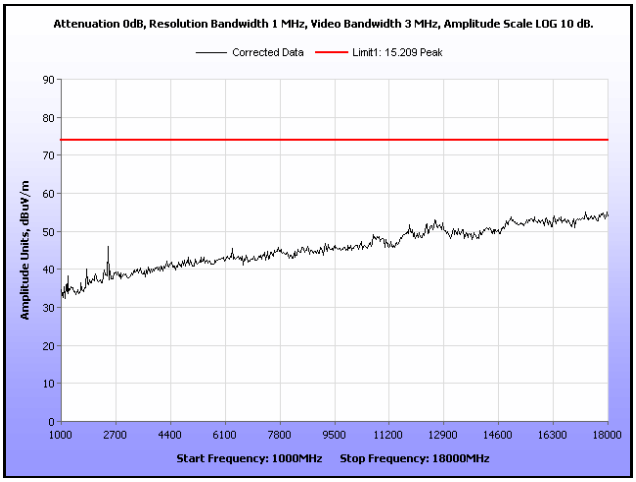
Plot 185. Radiated Spurious Emissions, Mid Channel, 802.11n 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak



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

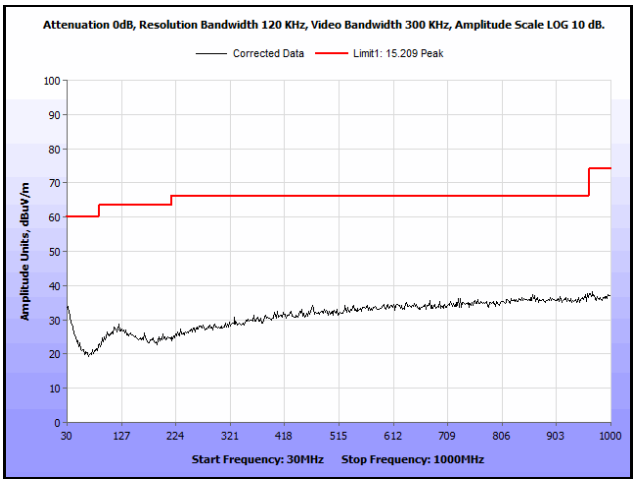


Plot 187. Radiated Spurious Emissions, High Channel, 802.11n 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Average

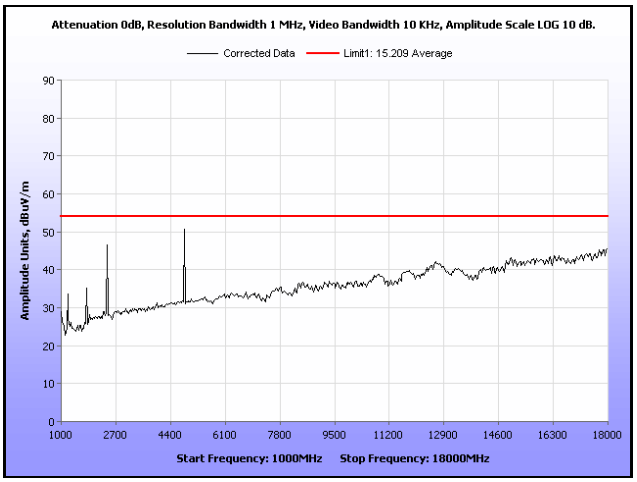


Plot 188. Radiated Spurious Emissions, High Channel, 802.11n 10 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak

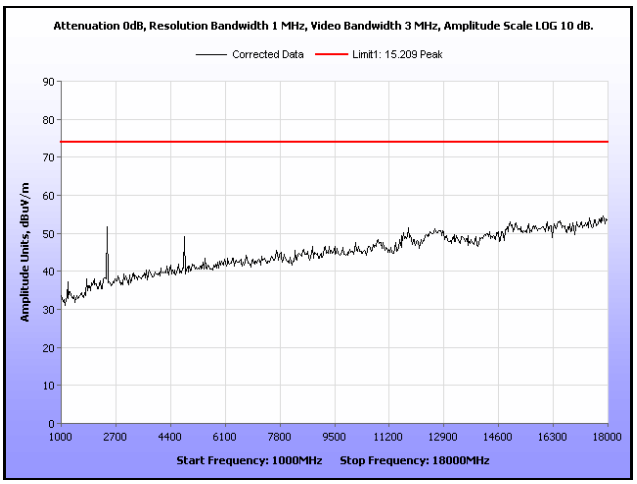
Radiated Spurious Emissions Test Results, 802.11b 20 MHz, Omni Antenna



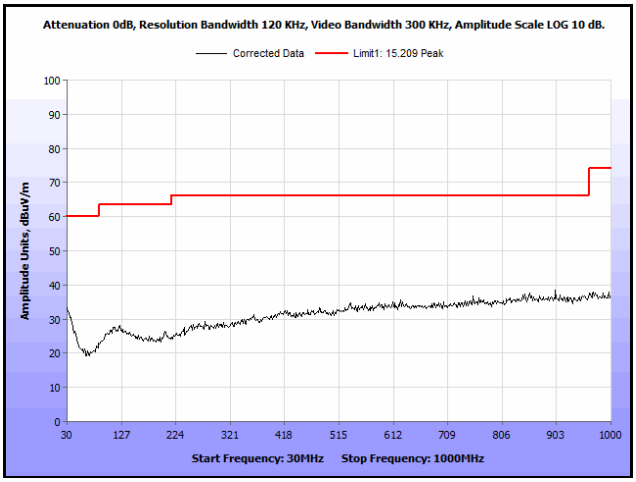
Plot 189. Radiated Spurious Emissions, Low Channel, 802.11b 20 MHz, Omni Antenna, 30 MHz – 1 GHz



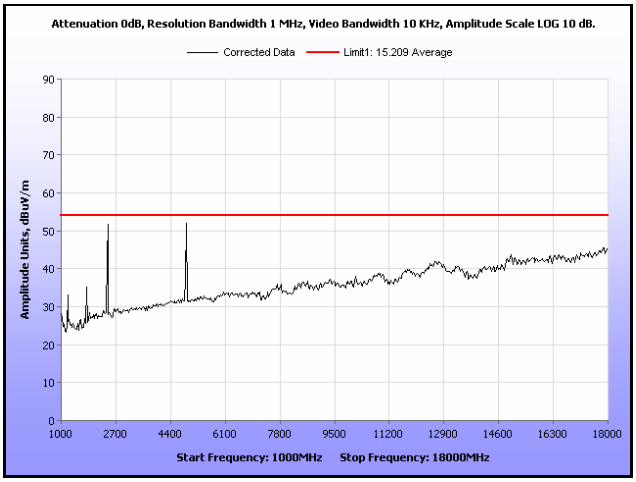
Plot 190. Radiated Spurious Emissions, Low Channel, 802.11b 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Average



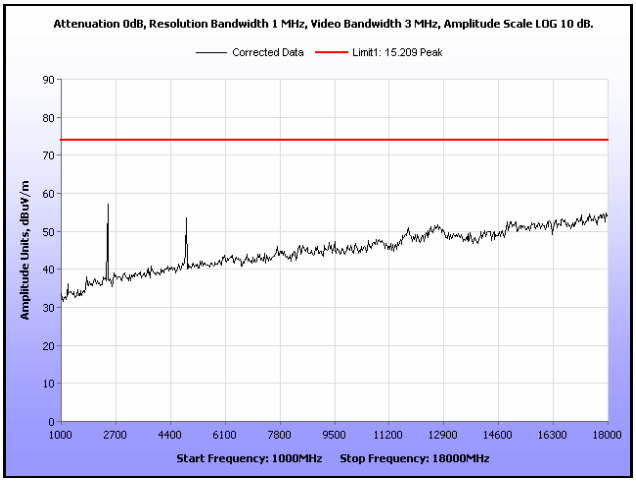
Plot 191. Radiated Spurious Emissions, Low Channel, 802.11b 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak



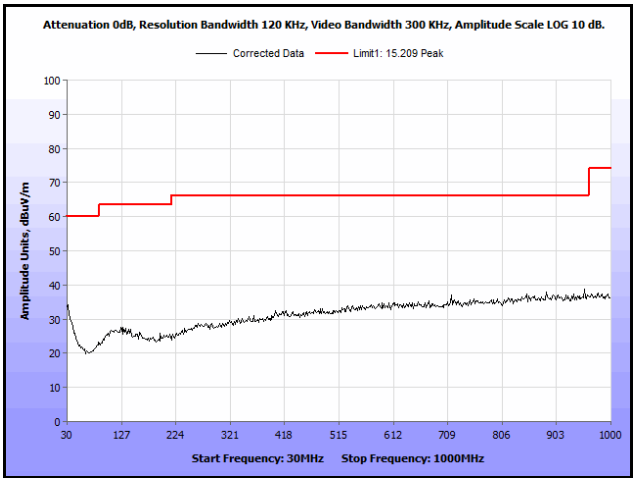
Plot 192. Radiated Spurious Emissions, Mid Channel, 802.11b 20 MHz, Omni Antenna, 30 MHz – 1 GHz



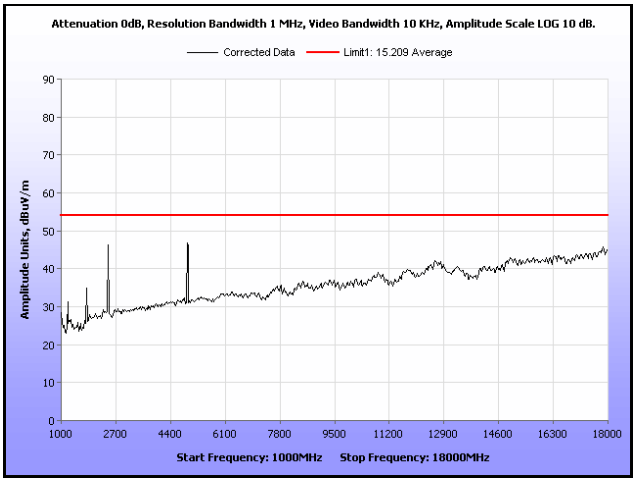
Plot 193. Radiated Spurious Emissions, Mid Channel, 802.11b 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Average



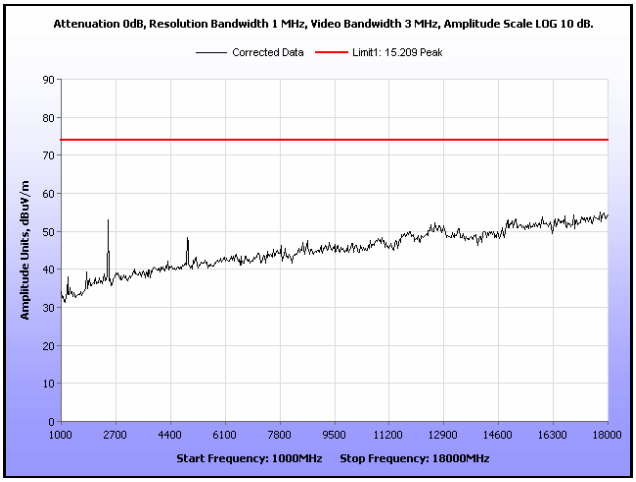
Plot 194. Radiated Spurious Emissions, Mid Channel, 802.11b 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak



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

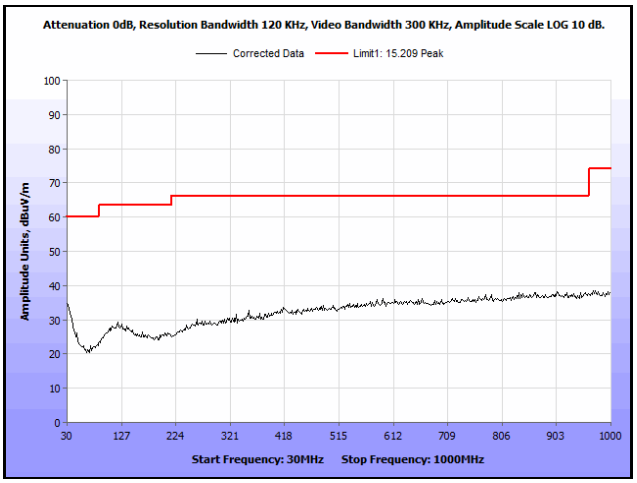


Plot 196. Radiated Spurious Emissions, High Channel, 802.11b 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Average

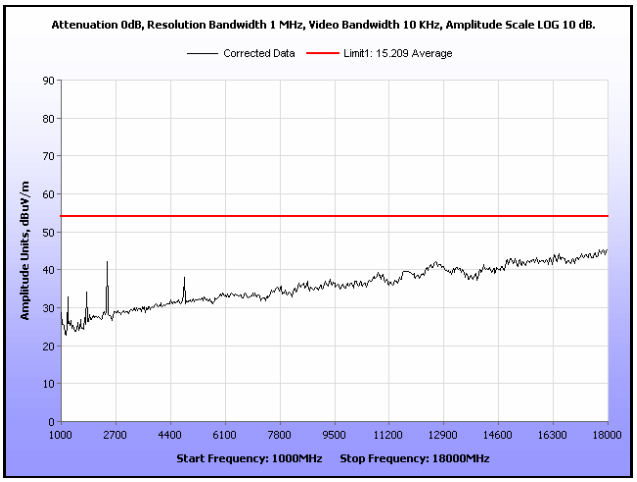


Plot 197. Radiated Spurious Emissions, High Channel, 802.11b 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak

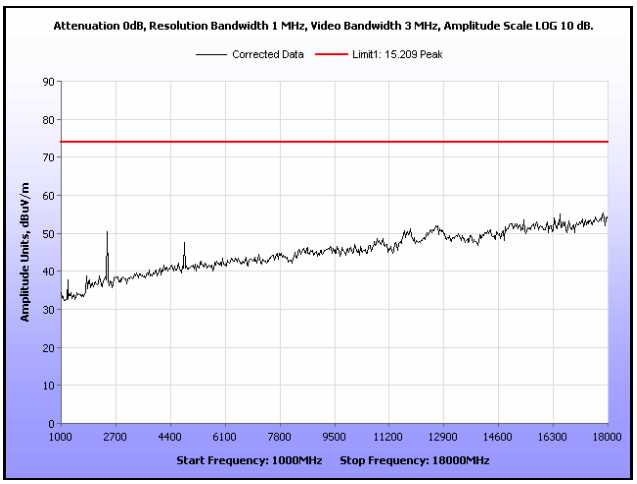
Radiated Spurious Emissions Test Results, 802.11g 20 MHz, Omni Antenna



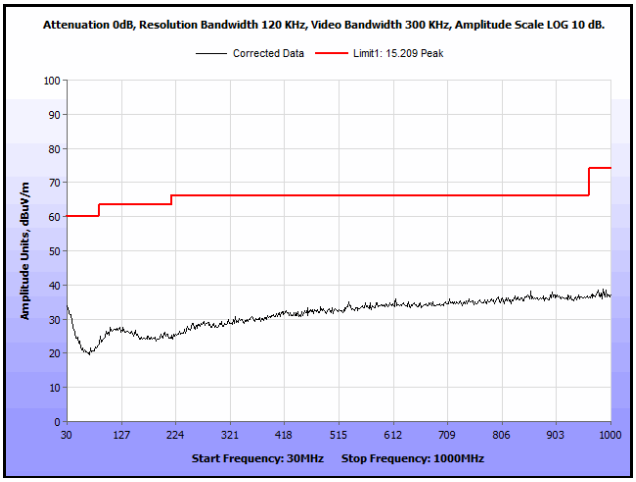
Plot 198. Radiated Spurious Emissions, Low Channel, 802.11g 20 MHz, Omni Antenna, 30 MHz – 1 GHz



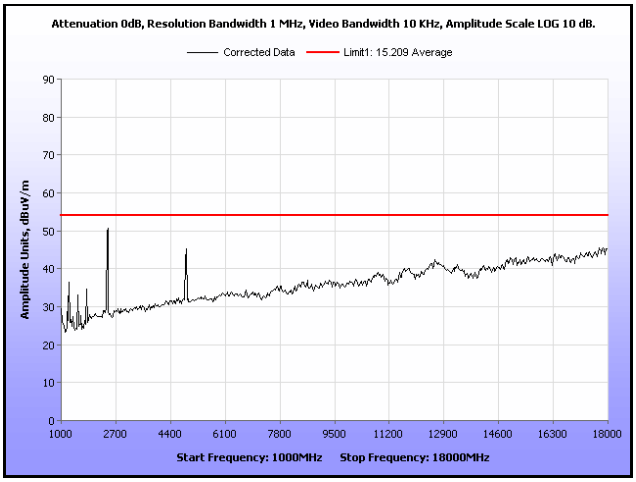
Plot 199. Radiated Spurious Emissions, Low Channel, 802.11g 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Average



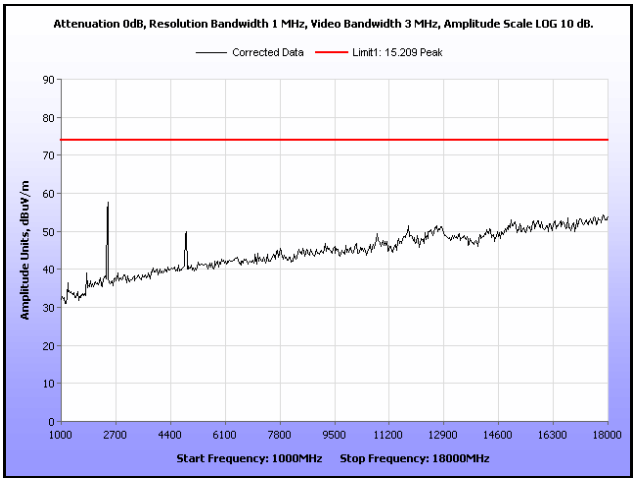
Plot 200. Radiated Spurious Emissions, Low Channel, 802.11g 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak



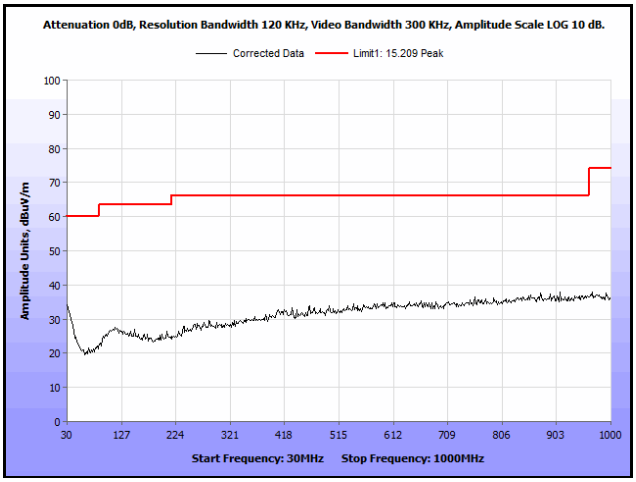
Plot 201. Radiated Spurious Emissions, Mid Channel, 802.11g 20 MHz, Omni Antenna, 30 MHz – 1 GHz



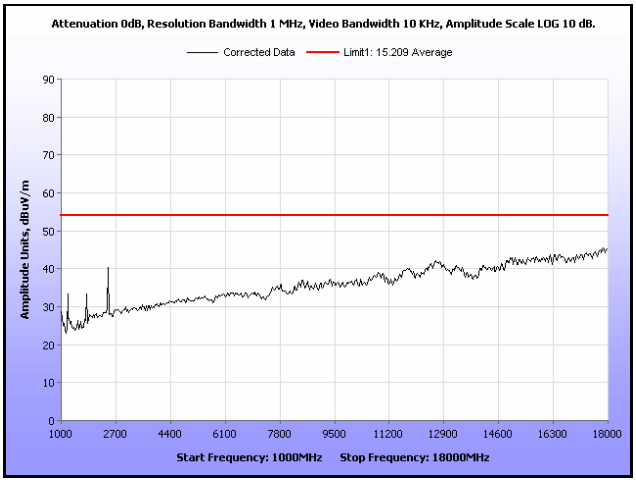
Plot 202. Radiated Spurious Emissions, Mid Channel, 802.11g 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Average



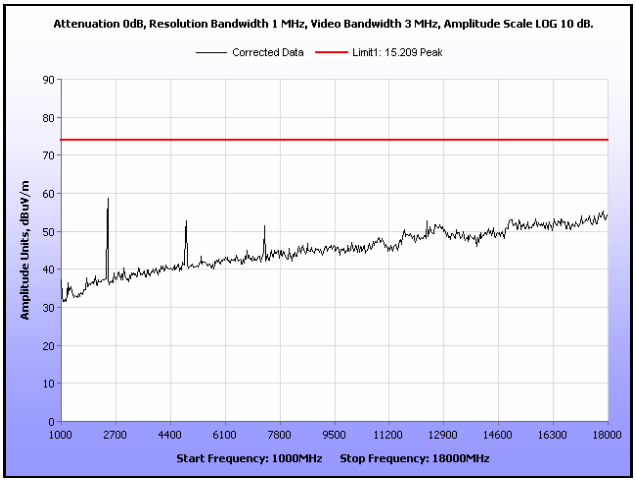
Plot 203. Radiated Spurious Emissions, Mid Channel, 802.11g 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak



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

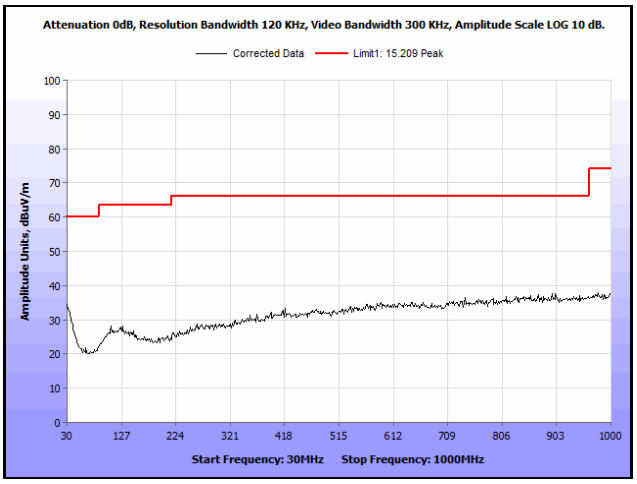


Plot 205. Radiated Spurious Emissions, High Channel, 802.11g 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Average

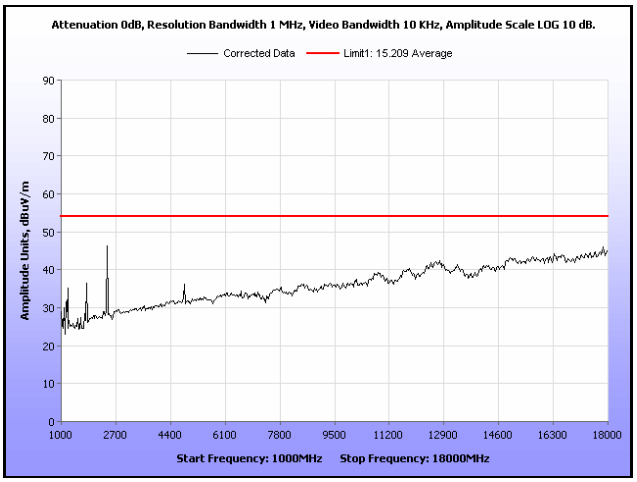


Plot 206. Radiated Spurious Emissions, High Channel, 802.11g 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak

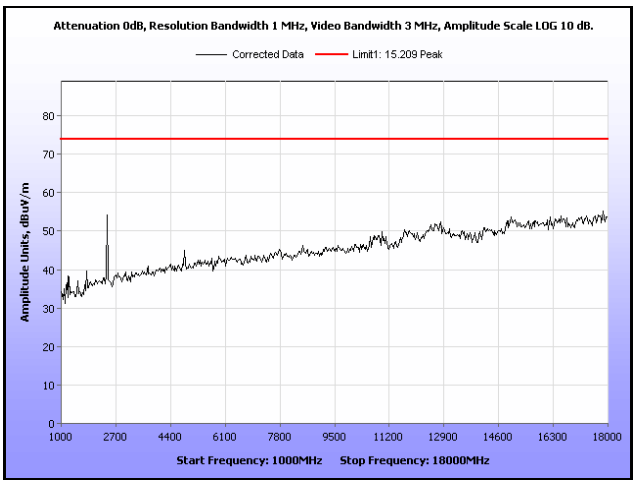
Radiated Spurious Emissions Test Results, 802.11n 20 MHz, Omni Antenna



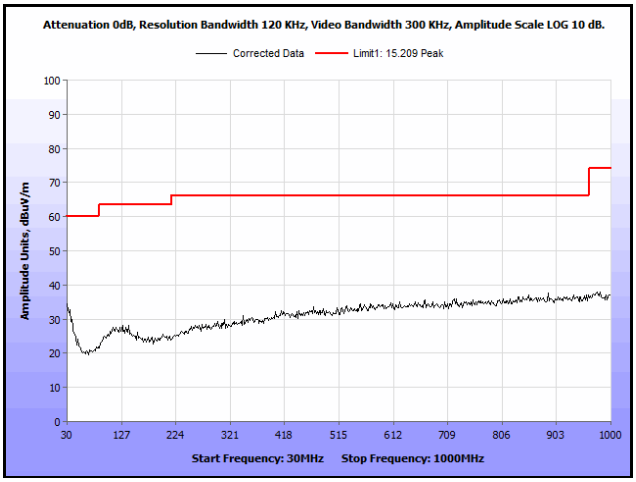
Plot 207. Radiated Spurious Emissions, Low Channel, 802.11n 20 MHz, Omni Antenna, 30 MHz – 1 GHz



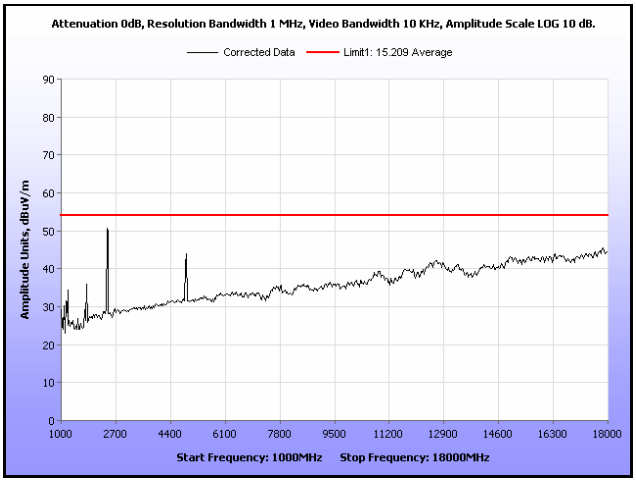
Plot 208. Radiated Spurious Emissions, Low Channel, 802.11n 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Average



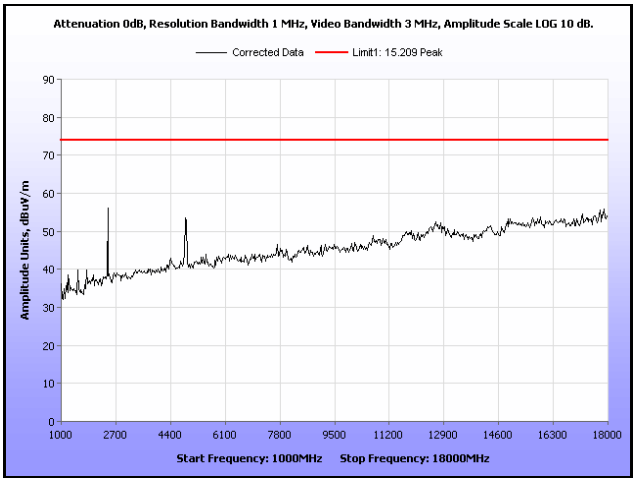
Plot 209. Radiated Spurious Emissions, Low Channel, 802.11n 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak



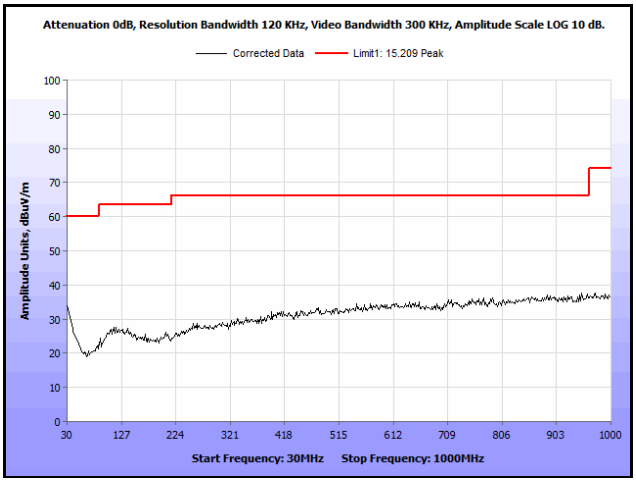
Plot 210. Radiated Spurious Emissions, Mid Channel, 802.11n 20 MHz, Omni Antenna, 30 MHz – 1 GHz



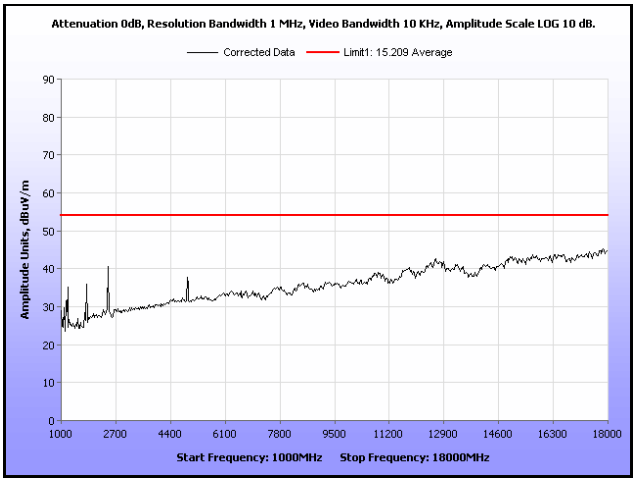
Plot 211. Radiated Spurious Emissions, Mid Channel, 802.11n 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Average



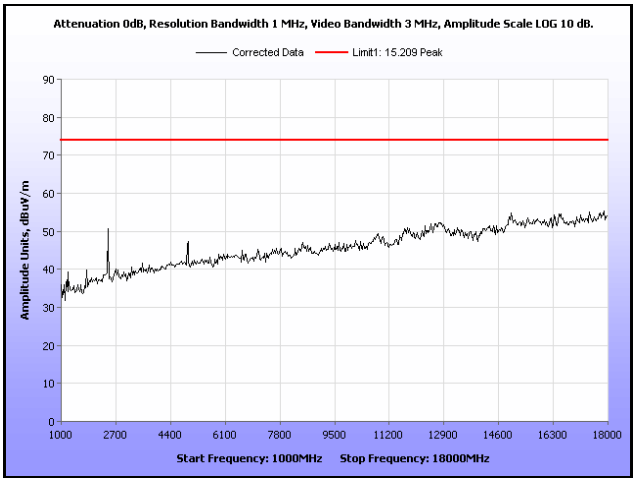
Plot 212. Radiated Spurious Emissions, Mid Channel, 802.11n 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak



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

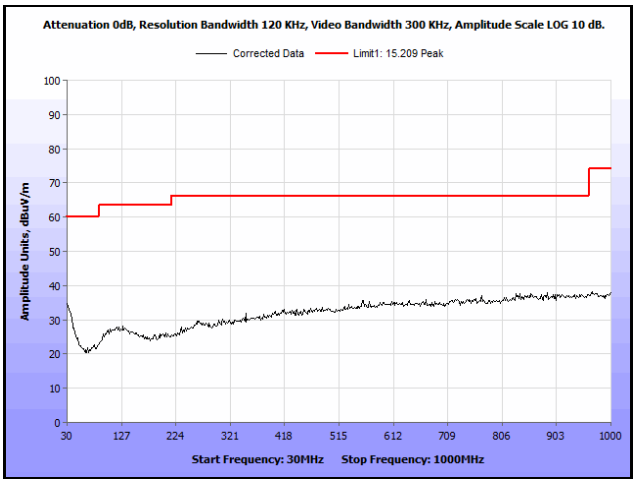


Plot 214. Radiated Spurious Emissions, High Channel, 802.11n 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Average

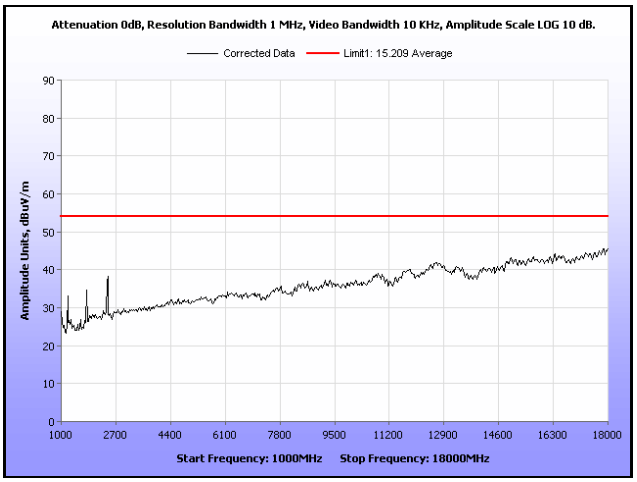


Plot 215. Radiated Spurious Emissions, High Channel, 802.11n 20 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak

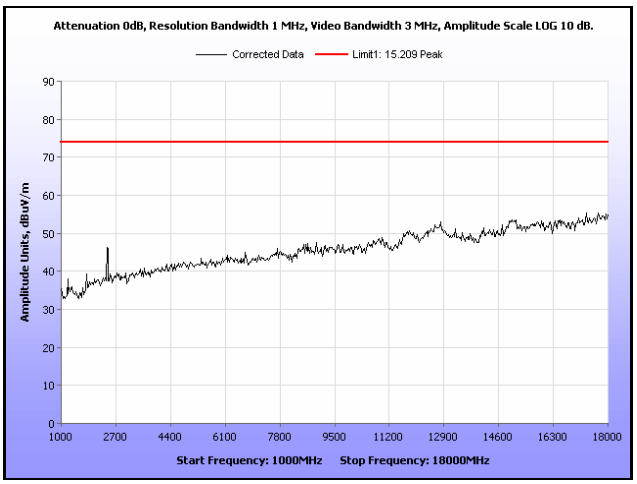
Radiated Spurious Emissions Test Results, 802.11g 40 MHz, Omni Antenna



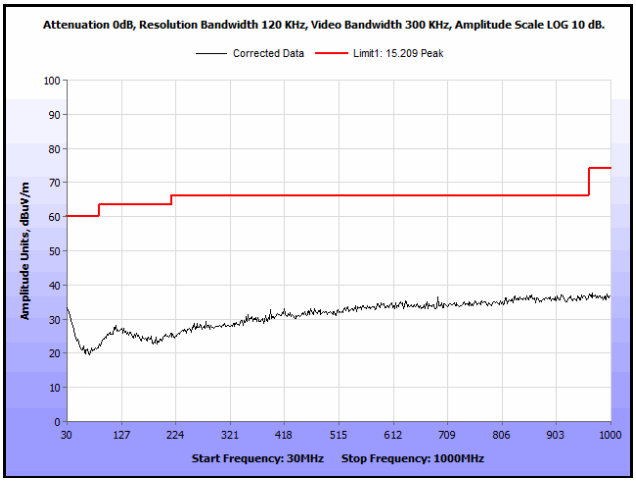
Plot 216. Radiated Spurious Emissions, Low Channel, 802.11g 40 MHz, Omni Antenna, 30 MHz – 1 GHz



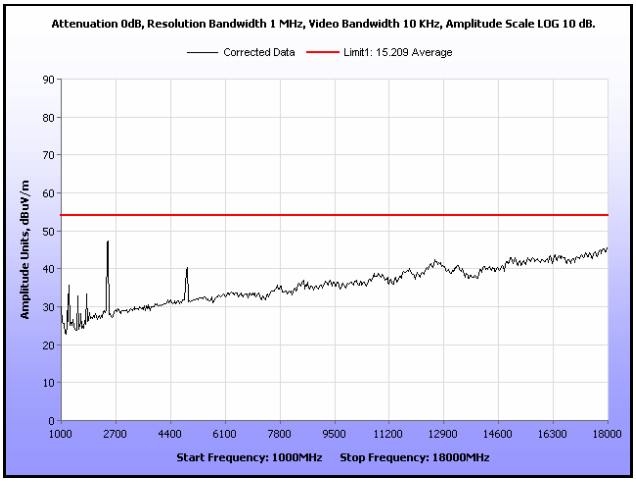
Plot 217. Radiated Spurious Emissions, Low Channel, 802.11g 40 MHz, Omni Antenna, 1 GHz – 18 GHz, Average



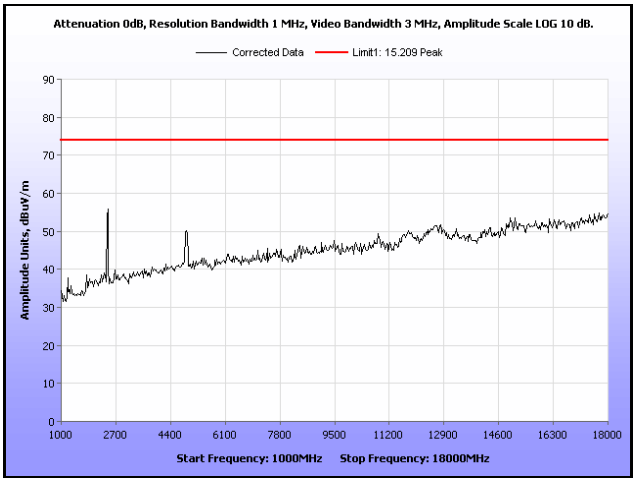
Plot 218. Radiated Spurious Emissions, Low Channel, 802.11g 40 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak



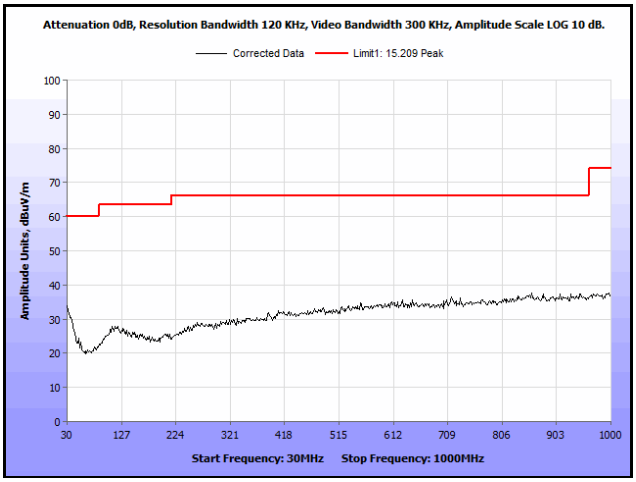
Plot 219. Radiated Spurious Emissions, Mid Channel, 802.11g 40 MHz, Omni Antenna, 30 MHz – 1 GHz



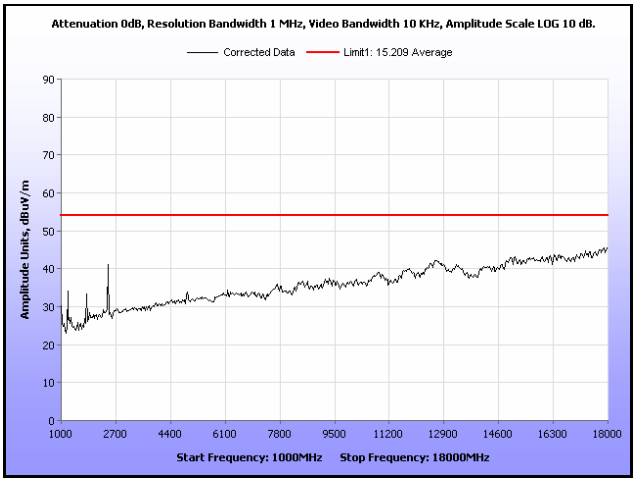
Plot 220. Radiated Spurious Emissions, Mid Channel, 802.11g 40 MHz, Omni Antenna, 1 GHz – 18 GHz, Average



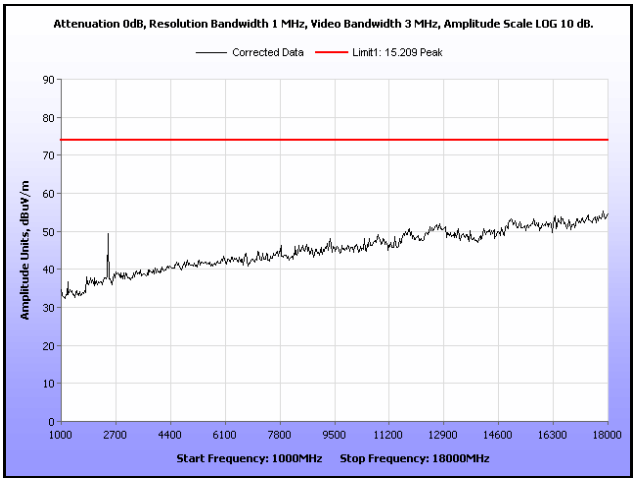
Plot 221. Radiated Spurious Emissions, Mid Channel, 802.11g 40 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak



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

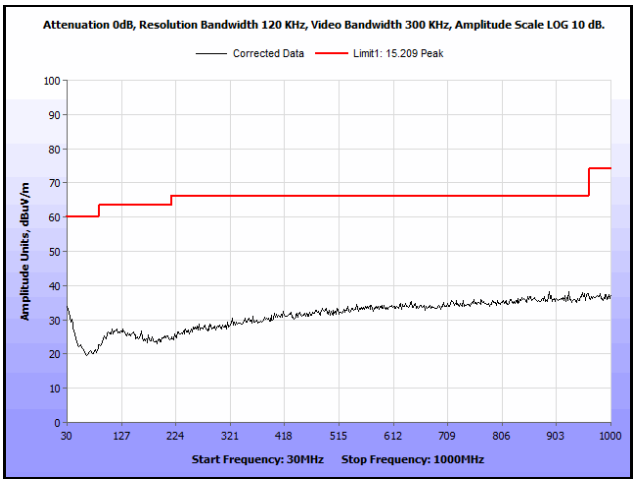


Plot 223. Radiated Spurious Emissions, High Channel, 802.11g 40 MHz, Omni Antenna, 1 GHz – 18 GHz, Average

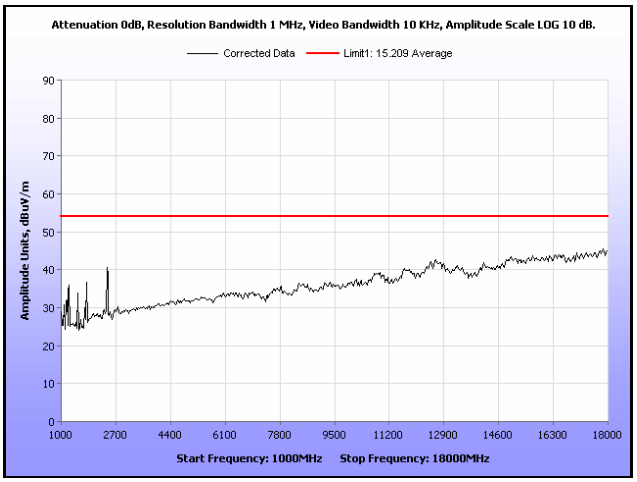


Plot 224. Radiated Spurious Emissions, High Channel, 802.11g 40 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak

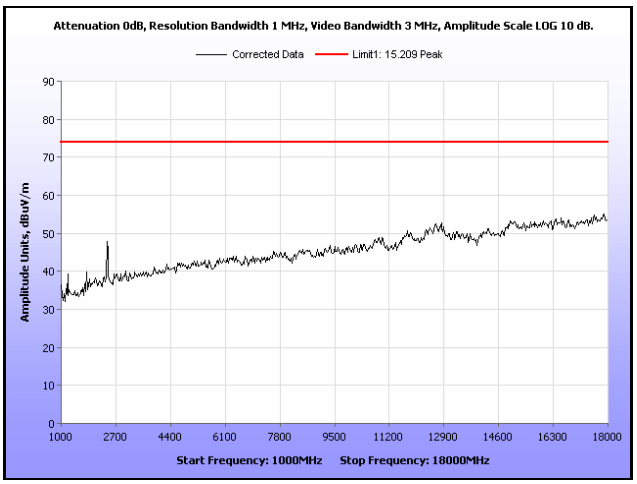
Radiated Spurious Emissions Test Results, 802.11n 40 MHz, Omni Antenna



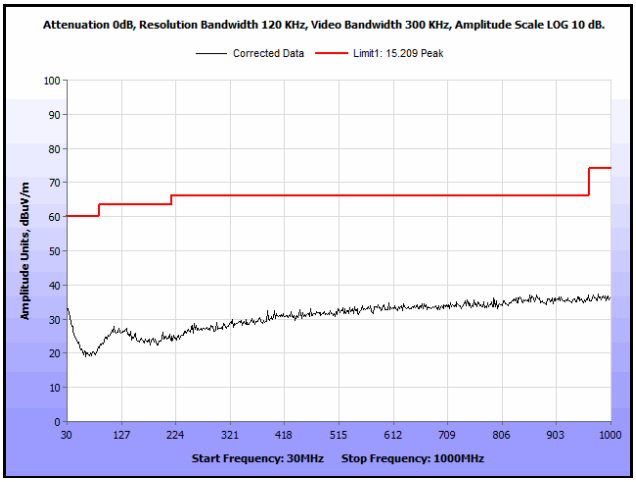
Plot 225. Radiated Spurious Emissions, Low Channel, 802.11n 40 MHz, Omni Antenna, 30 MHz – 1 GHz



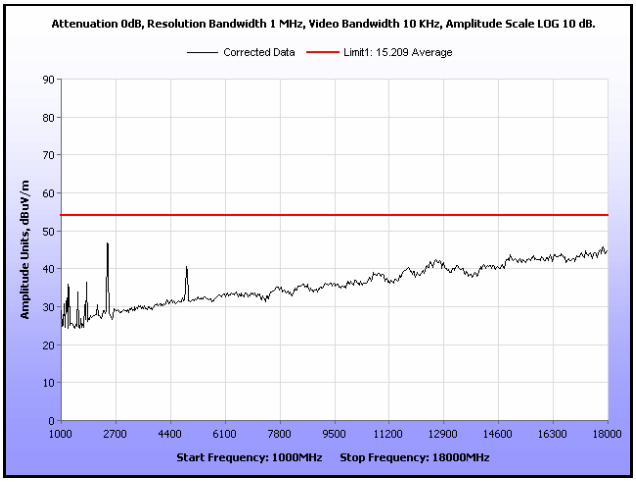
Plot 226. Radiated Spurious Emissions, Low Channel, 802.11n 40 MHz, Omni Antenna, 1 GHz – 18 GHz, Average



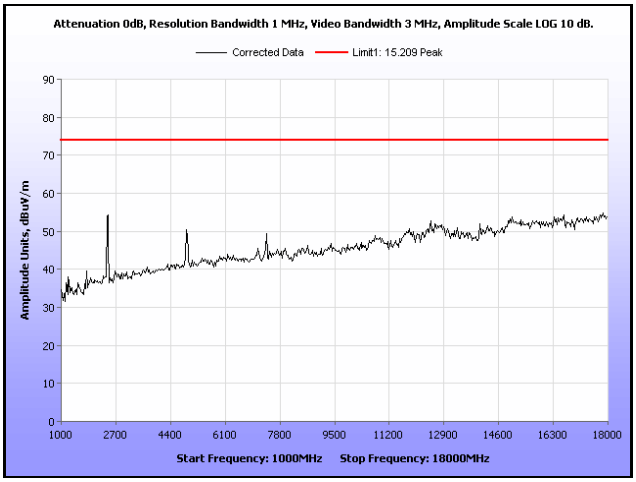
Plot 227. Radiated Spurious Emissions, Low Channel, 802.11n 40 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak



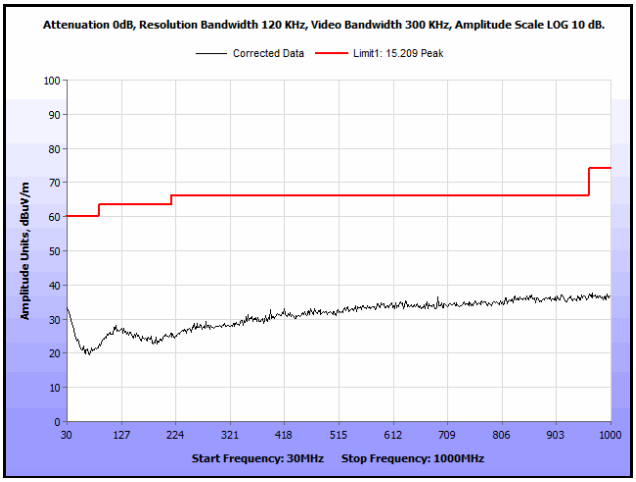
Plot 228. Radiated Spurious Emissions, Mid Channel, 802.11n 40 MHz, Omni Antenna, 30 MHz – 1 GHz



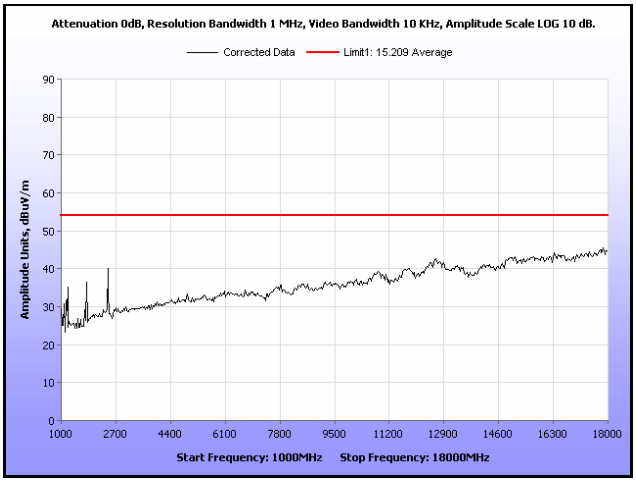
Plot 229. Radiated Spurious Emissions, Mid Channel, 802.11n 40 MHz, Omni Antenna, 1 GHz – 18 GHz, Average



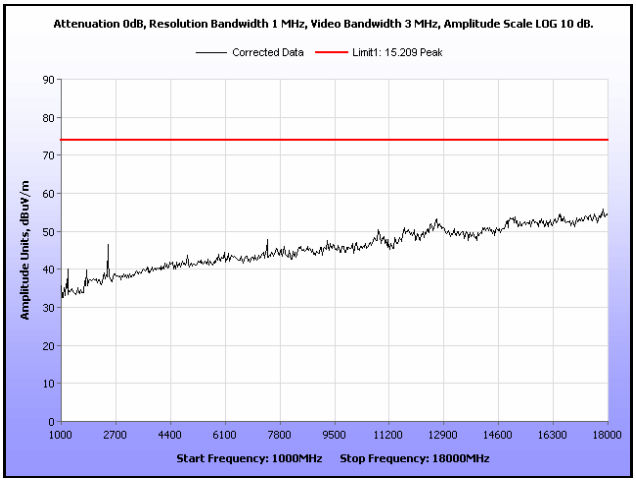
Plot 230. Radiated Spurious Emissions, Mid Channel, 802.11n 40 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak



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

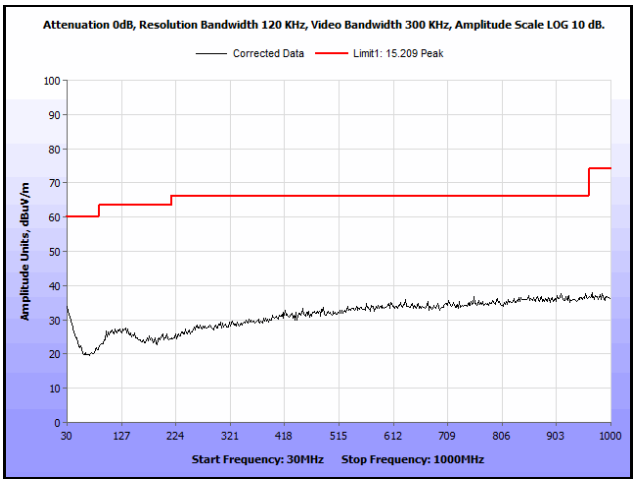


Plot 232. Radiated Spurious Emissions, High Channel, 802.11n 40 MHz, Omni Antenna, 1 GHz – 18 GHz, Average

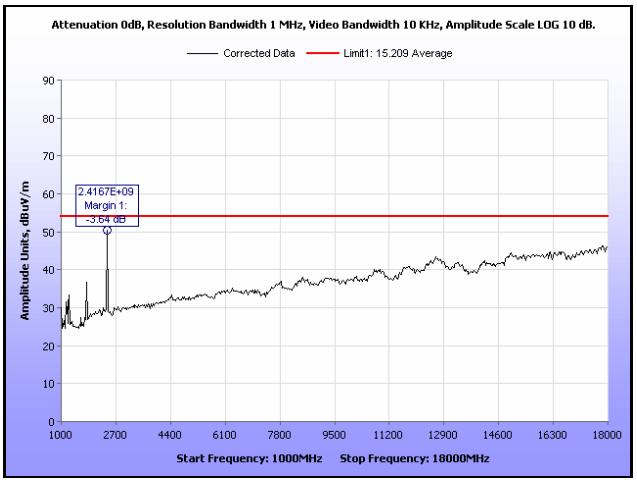


Plot 233. Radiated Spurious Emissions, High Channel, 802.11n 40 MHz, Omni Antenna, 1 GHz – 18 GHz, Peak

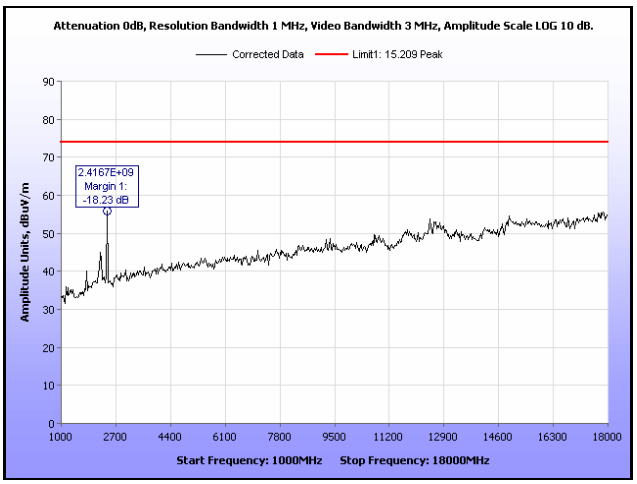
Radiated Spurious Emissions Test Results, 802.11b 5 MHz, Parabolic Antenna



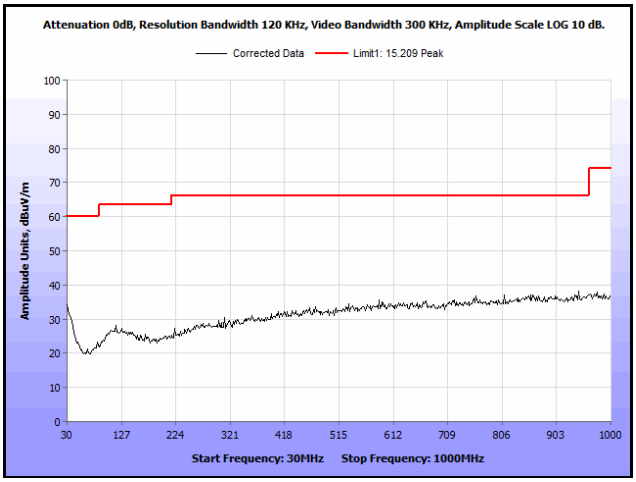
Plot 234. Radiated Spurious Emissions, Low Channel, 802.11b 5 MHz, Parabolic Antenna, 30 MHz – 1 GHz



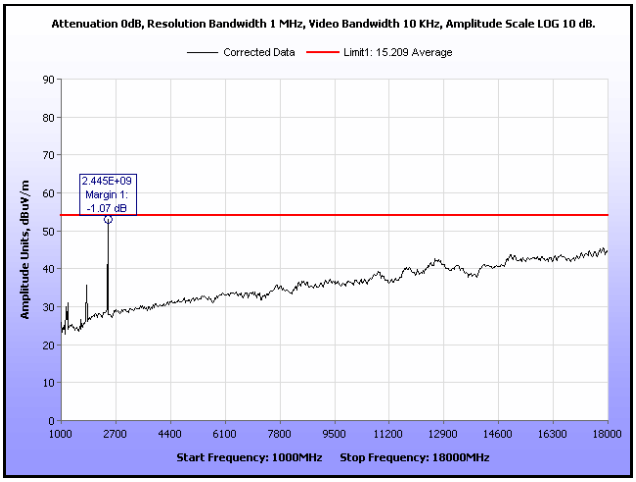
Plot 235. Radiated Spurious Emissions, Low Channel, 802.11b 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



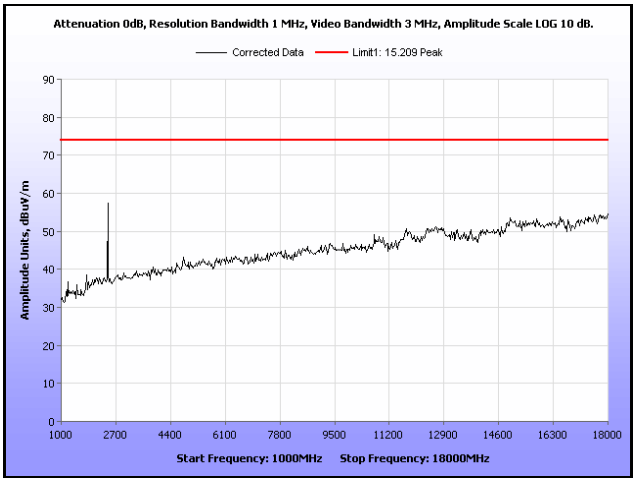
Plot 236. Radiated Spurious Emissions, Low Channel, 802.11b 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



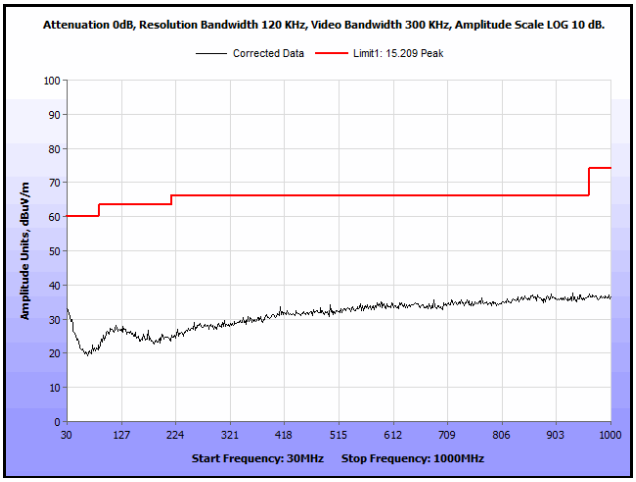
Plot 237. Radiated Spurious Emissions, Mid Channel, 802.11b 5 MHz, Parabolic Antenna, 30 MHz – 1 GHz



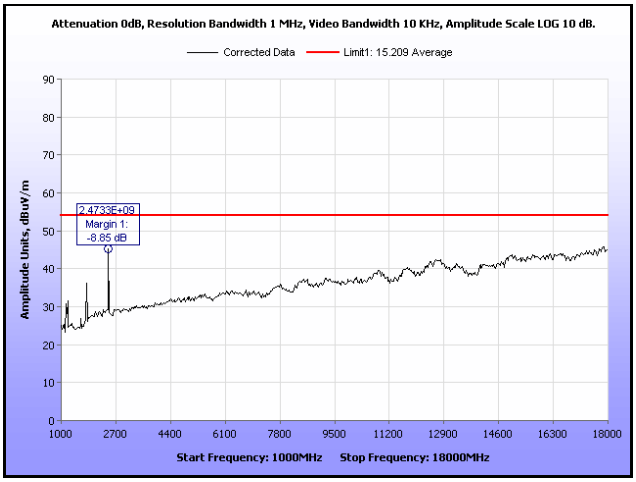
Plot 238. Radiated Spurious Emissions, Mid Channel, 802.11b 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



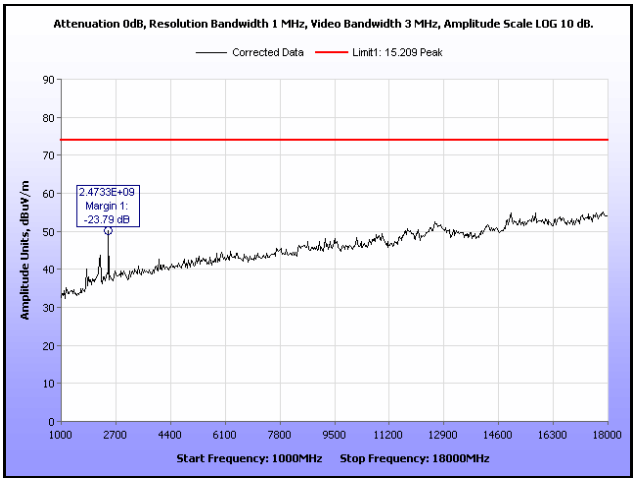
Plot 239. Radiated Spurious Emissions, Mid Channel, 802.11b 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



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

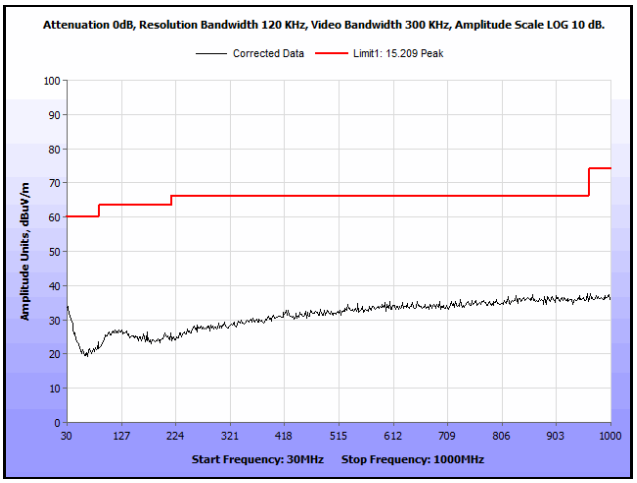


Plot 241. Radiated Spurious Emissions, High Channel, 802.11b 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average

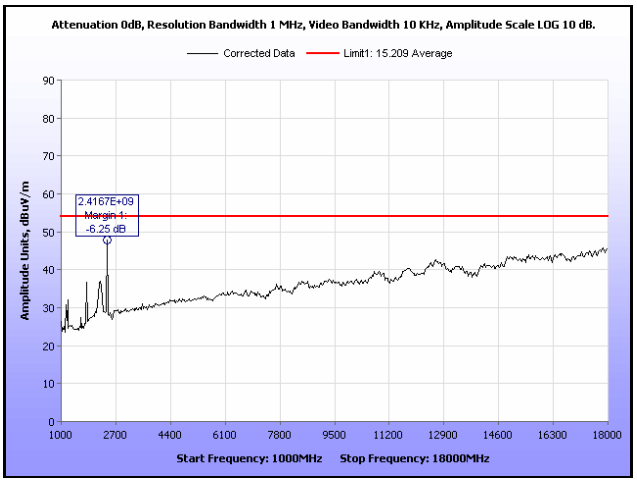


Plot 242. Radiated Spurious Emissions, High Channel, 802.11b 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak

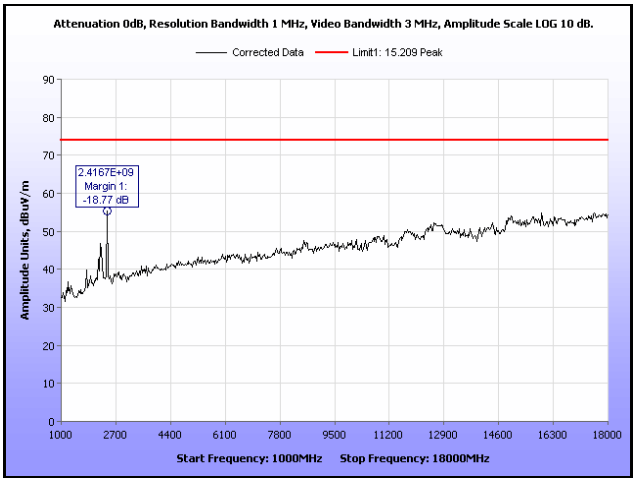
Radiated Spurious Emissions Test Results, 802.11g 5 MHz, Parabolic Antenna



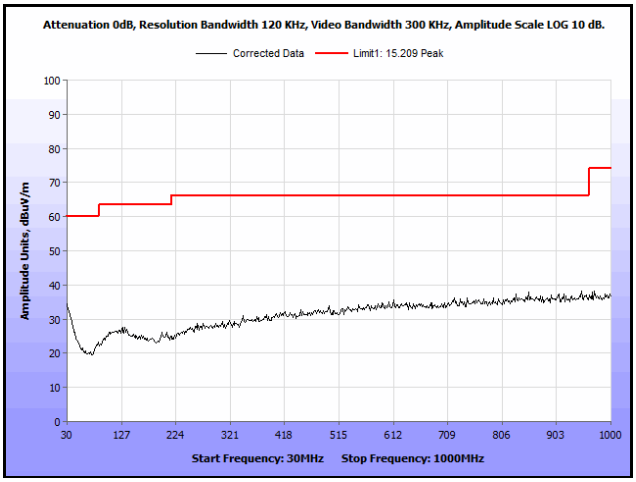
Plot 243. Radiated Spurious Emissions, Low Channel, 802.11g 5 MHz, Parabolic Antenna, 30 MHz – 1 GHz



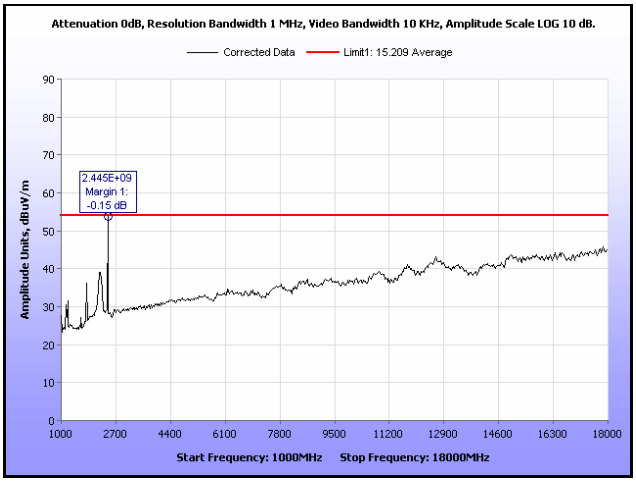
Plot 244. Radiated Spurious Emissions, Low Channel, 802.11g 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



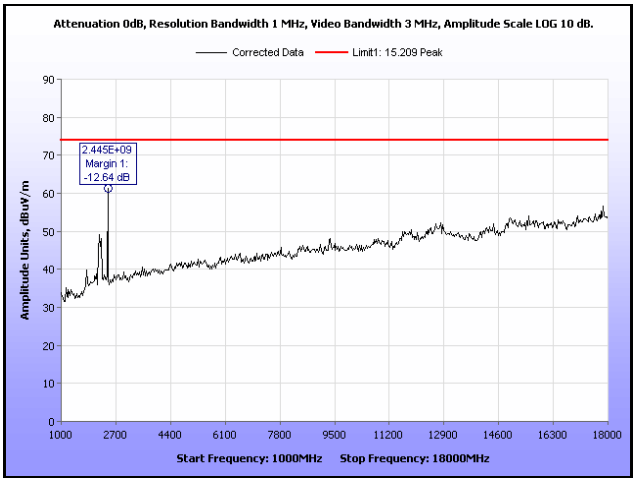
Plot 245. Radiated Spurious Emissions, Low Channel, 802.11g 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



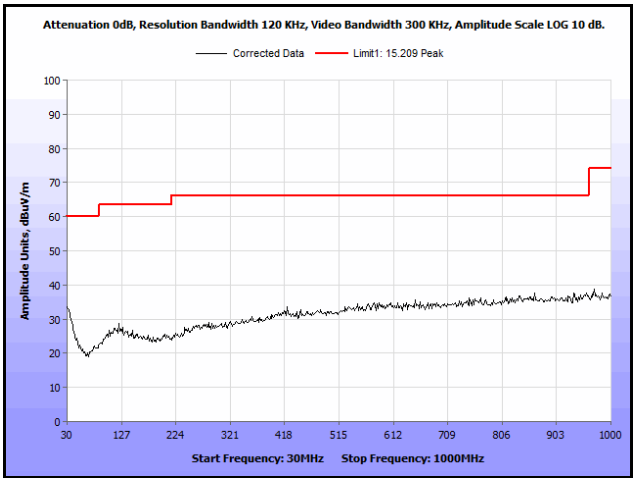
Plot 246. Radiated Spurious Emissions, Mid Channel, 802.11g 5 MHz, Parabolic Antenna, 30 MHz – 1 GHz



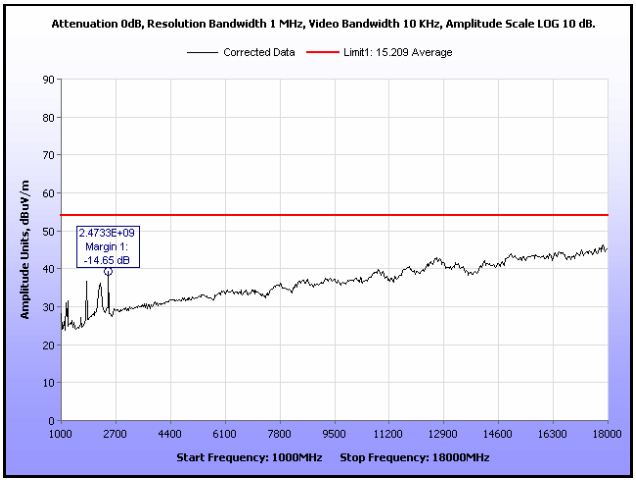
Plot 247. Radiated Spurious Emissions, Mid Channel, 802.11g 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



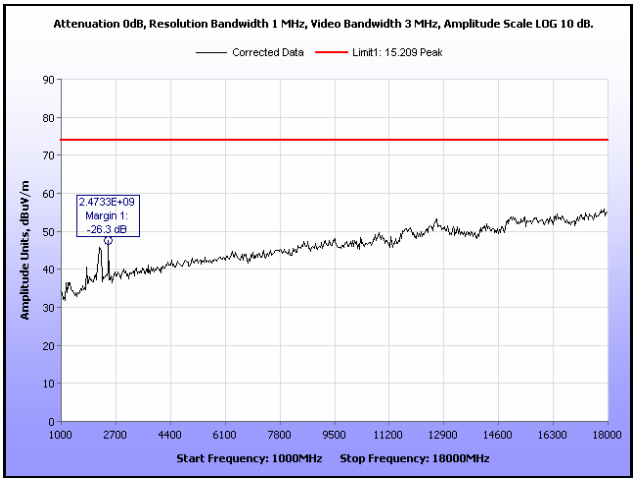
Plot 248. Radiated Spurious Emissions, Mid Channel, 802.11g 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



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

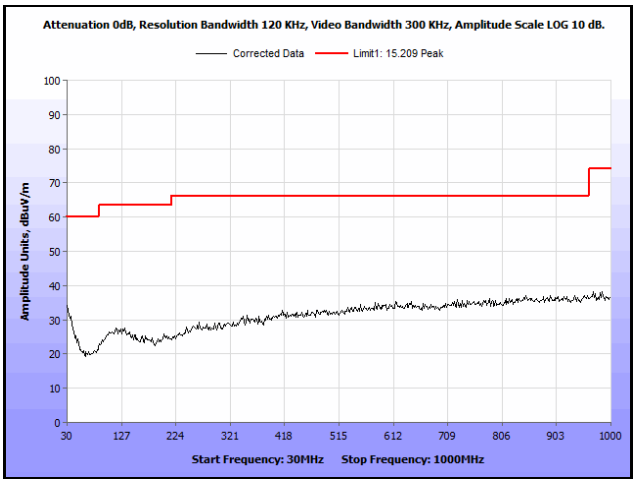


Plot 250. Radiated Spurious Emissions, High Channel, 802.11g 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average

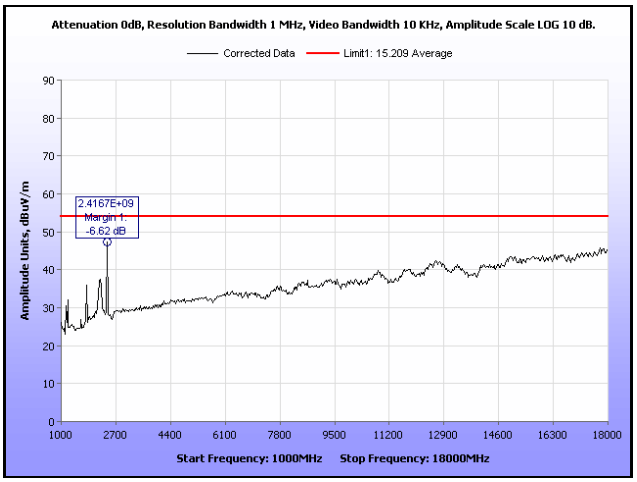


Plot 251. Radiated Spurious Emissions, High Channel, 802.11g 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak

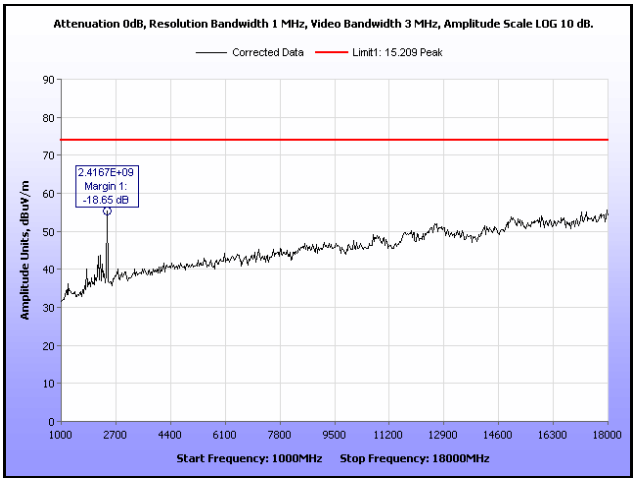
Radiated Spurious Emissions Test Results, 802.11n 5 MHz, Parabolic Antenna



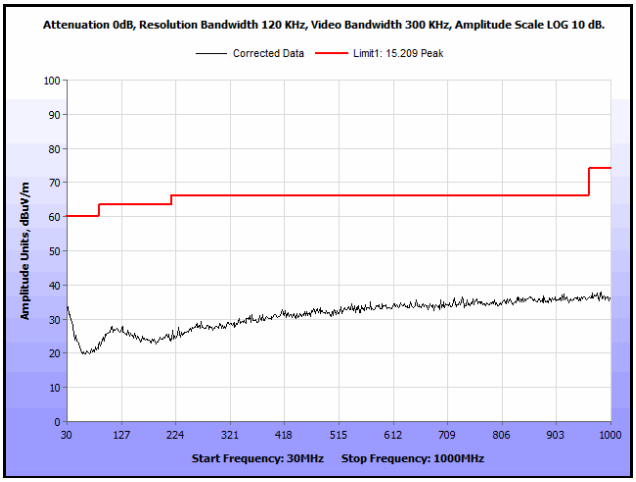
Plot 252. Radiated Spurious Emissions, Low Channel, 802.11n 5 MHz, Parabolic Antenna, 30 MHz – 1 GHz



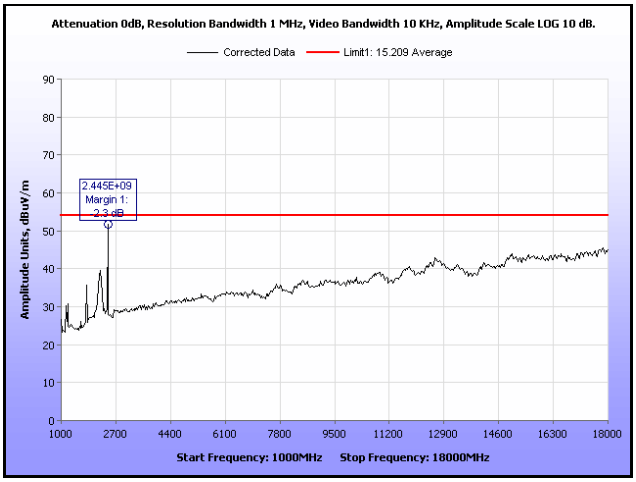
Plot 253. Radiated Spurious Emissions, Low Channel, 802.11n 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



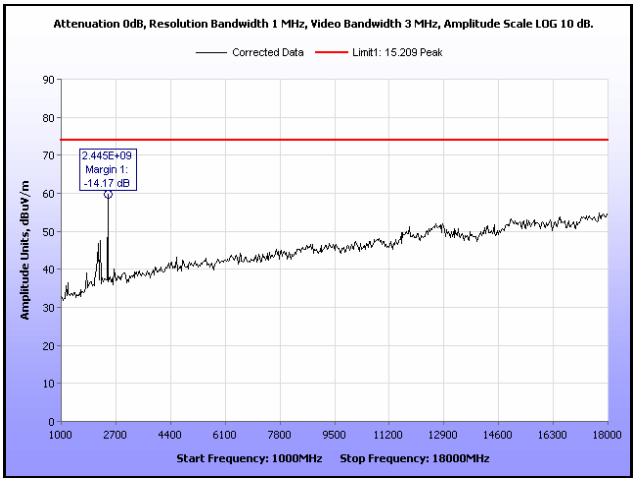
Plot 254. Radiated Spurious Emissions, Low Channel, 802.11n 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



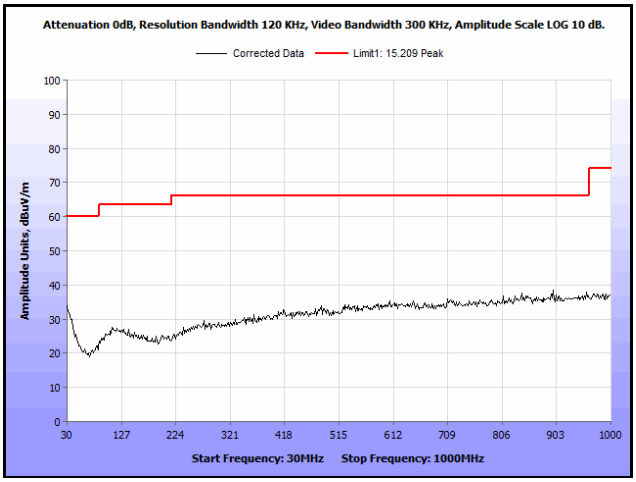
Plot 255. Radiated Spurious Emissions, Mid Channel, 802.11n 5 MHz, Parabolic Antenna, 30 MHz – 1 GHz



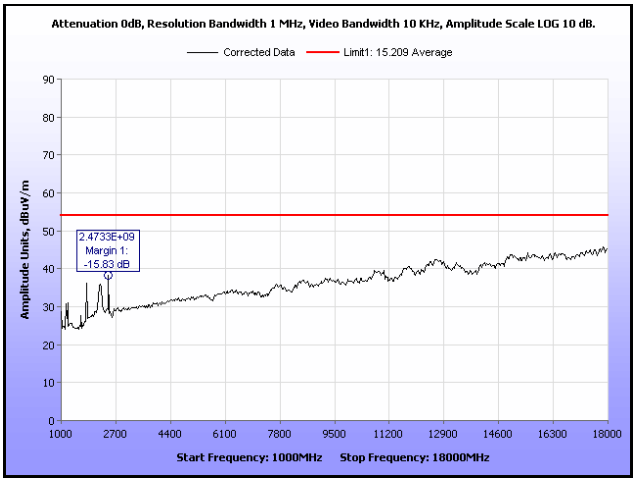
Plot 256. Radiated Spurious Emissions, Mid Channel, 802.11n 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



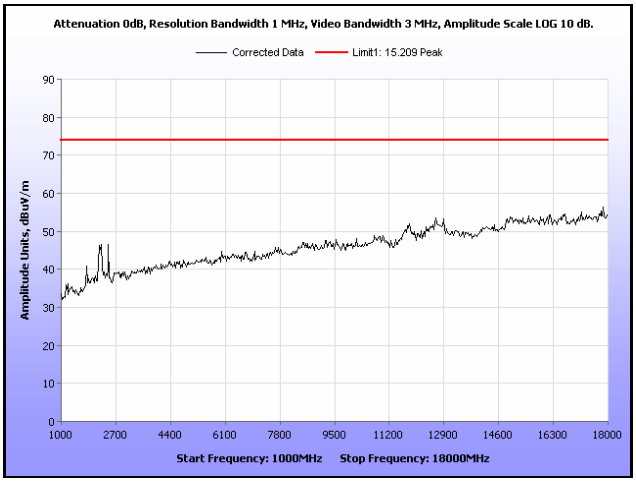
Plot 257. Radiated Spurious Emissions, Mid Channel, 802.11n 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



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

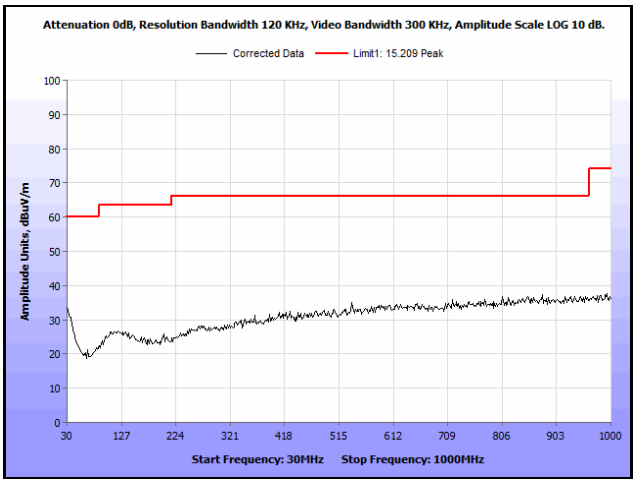


Plot 259. Radiated Spurious Emissions, High Channel, 802.11n 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average

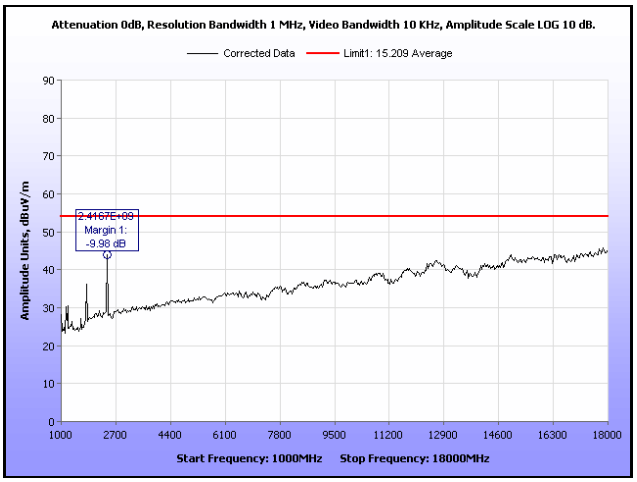


Plot 260. Radiated Spurious Emissions, High Channel, 802.11n 5 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak

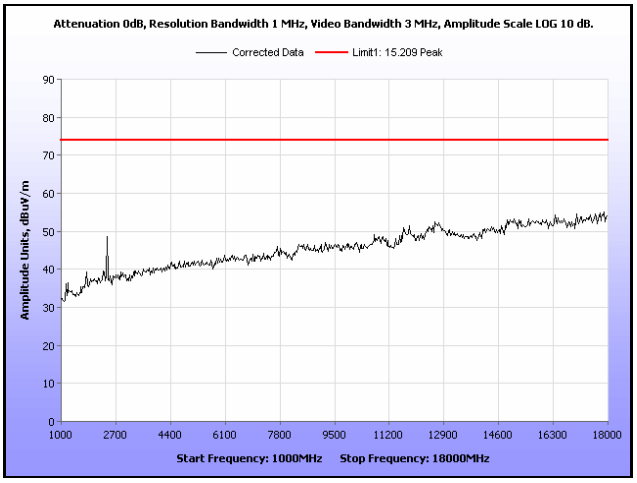
Radiated Spurious Emissions Test Results, 802.11b 10 MHz, Parabolic Antenna



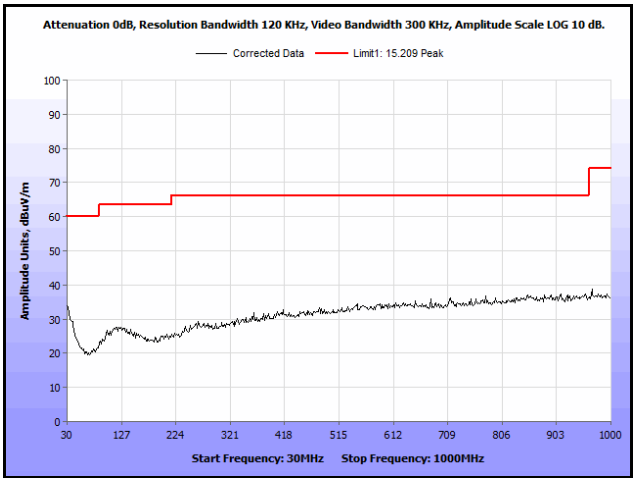
Plot 261. Radiated Spurious Emissions, Low Channel, 802.11b 10 MHz, Parabolic Antenna, 30 MHz – 1 GHz



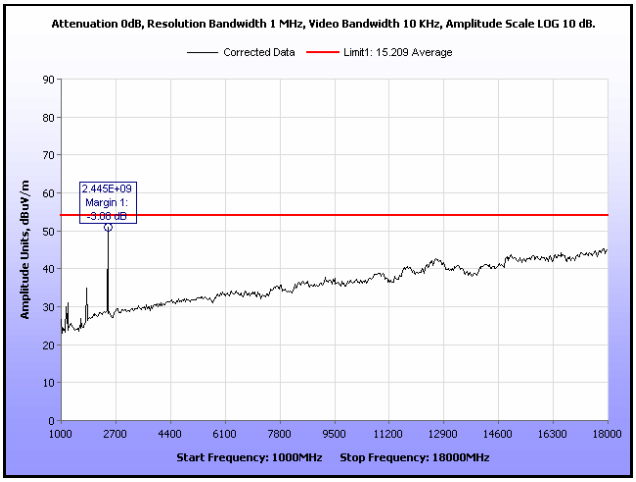
Plot 262. Radiated Spurious Emissions, Low Channel, 802.11b 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



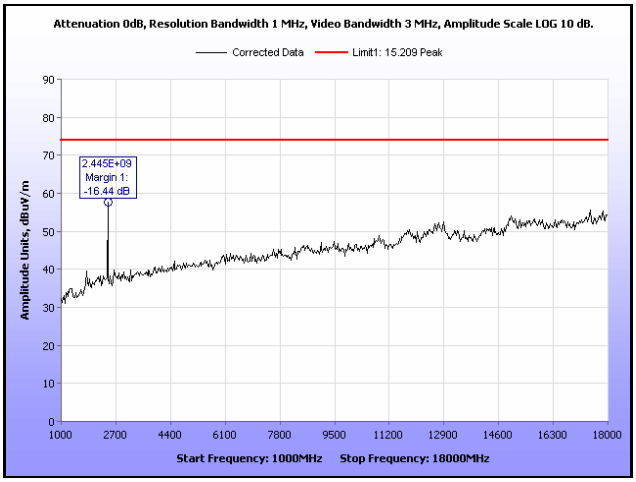
Plot 263. Radiated Spurious Emissions, Low Channel, 802.11b 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



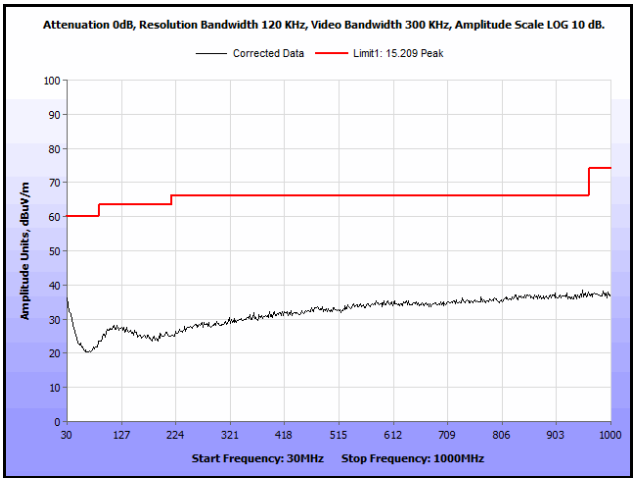
Plot 264. Radiated Spurious Emissions, Mid Channel, 802.11b 10 MHz, Parabolic Antenna, 30 MHz – 1 GHz



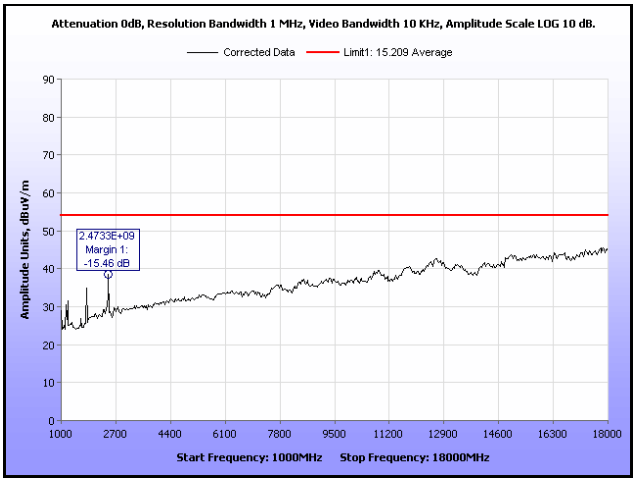
Plot 265. Radiated Spurious Emissions, Mid Channel, 802.11b 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



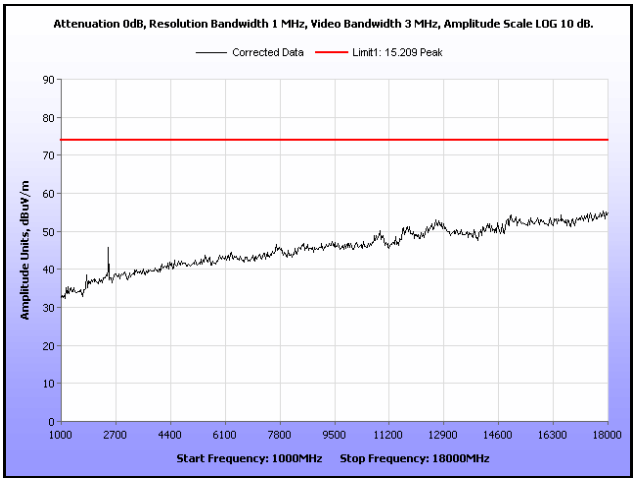
Plot 266. Radiated Spurious Emissions, Mid Channel, 802.11b 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



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

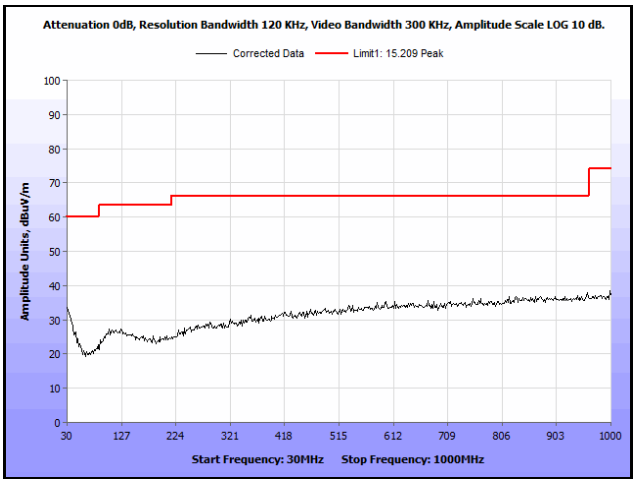


Plot 268. Radiated Spurious Emissions, High Channel, 802.11b 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average

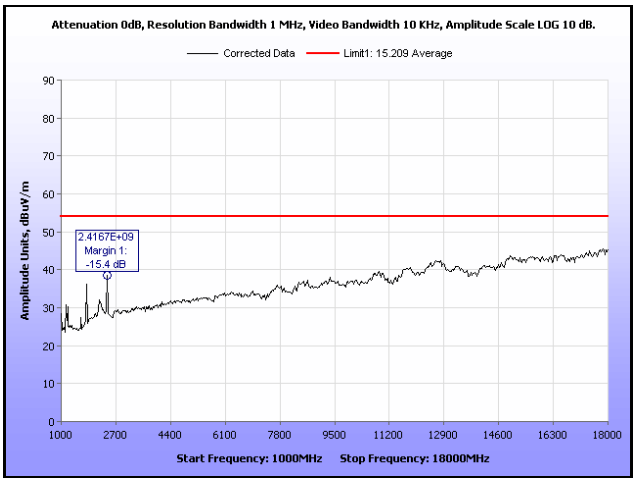


Plot 269. Radiated Spurious Emissions, High Channel, 802.11b 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak

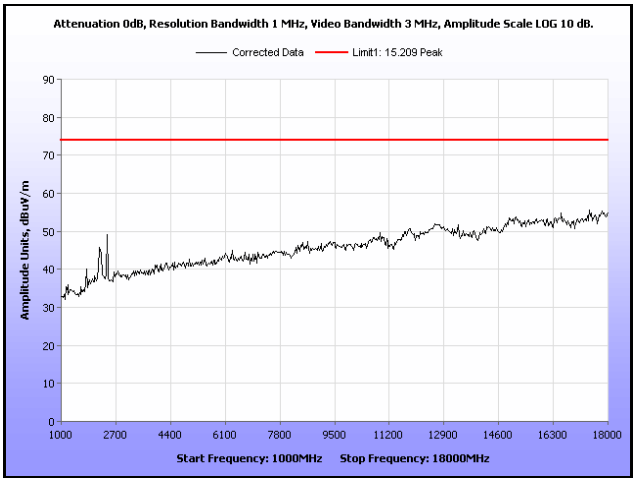
Radiated Spurious Emissions Test Results, 802.11g 10 MHz, Parabolic Antenna



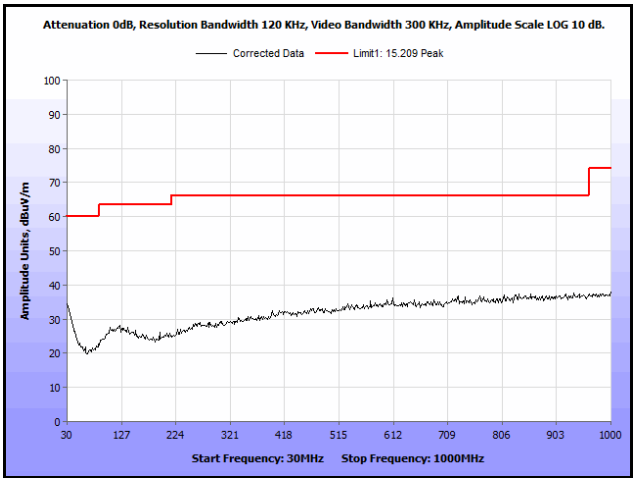
Plot 270. Radiated Spurious Emissions, Low Channel, 802.11g 10 MHz, Parabolic Antenna, 30 MHz – 1 GHz



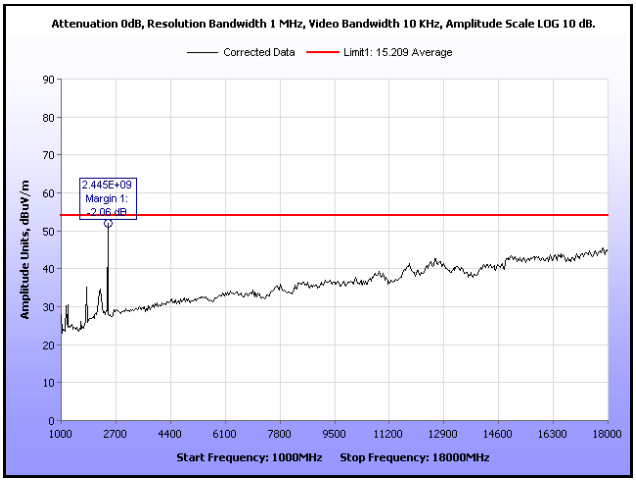
Plot 271. Radiated Spurious Emissions, Low Channel, 802.11g 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



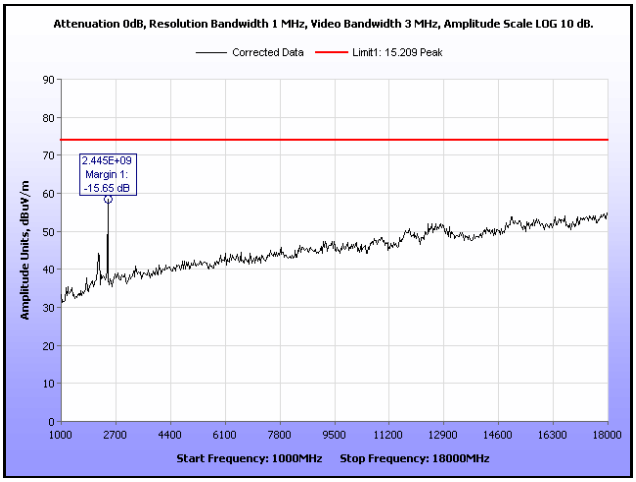
Plot 272. Radiated Spurious Emissions, Low Channel, 802.11g 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



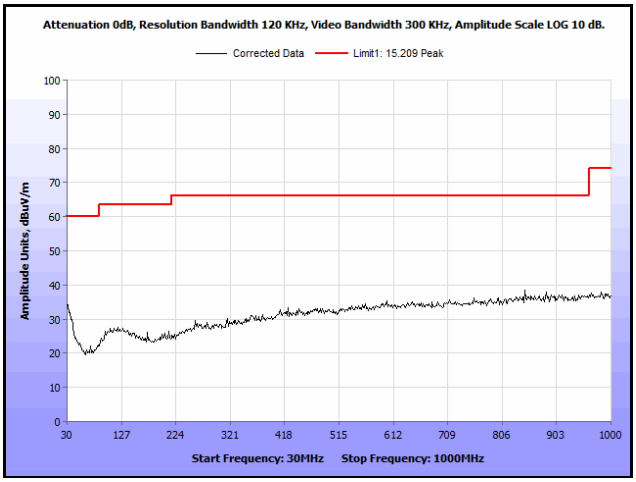
Plot 273. Radiated Spurious Emissions, Mid Channel, 802.11g 10 MHz, Parabolic Antenna, 30 MHz – 1 GHz



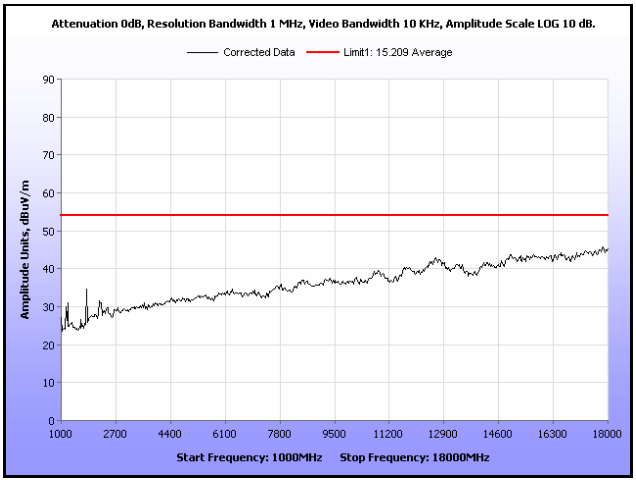
Plot 274. Radiated Spurious Emissions, Mid Channel, 802.11g 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



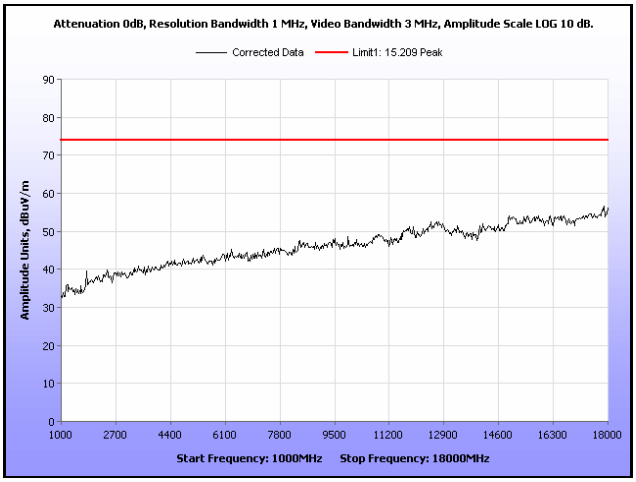
Plot 275. Radiated Spurious Emissions, Mid Channel, 802.11g 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



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

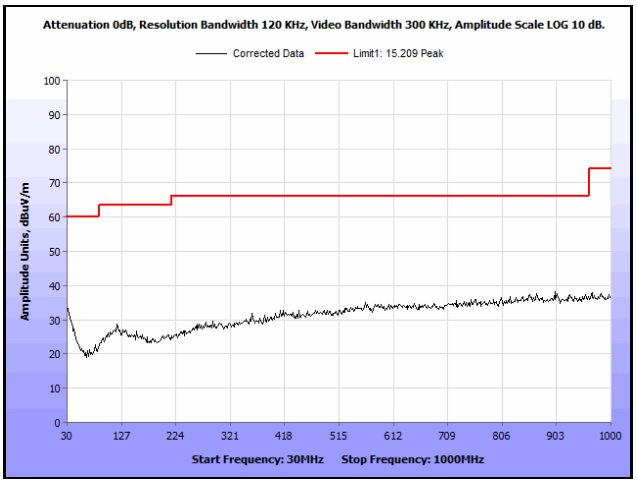


Plot 277. Radiated Spurious Emissions, High Channel, 802.11g 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average

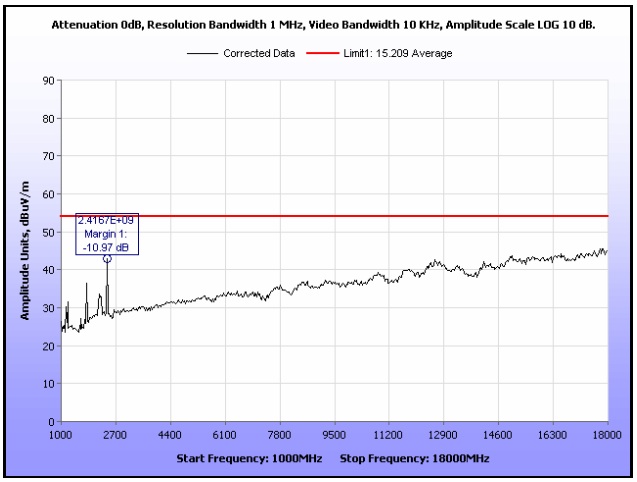


Plot 278. Radiated Spurious Emissions, High Channel, 802.11g 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak

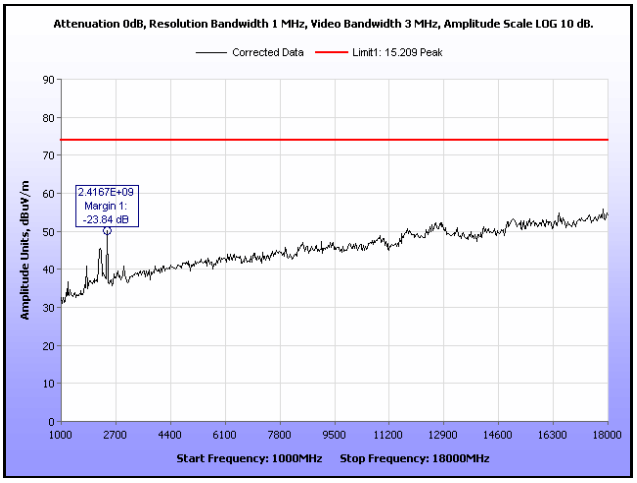
Radiated Spurious Emissions Test Results, 802.11n 10 MHz, Parabolic Antenna



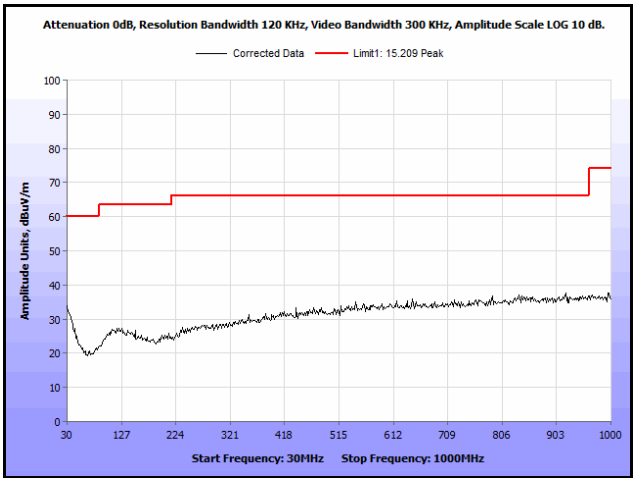
Plot 279. Radiated Spurious Emissions, Low Channel, 802.11n 10 MHz, Parabolic Antenna, 30 MHz – 1 GHz



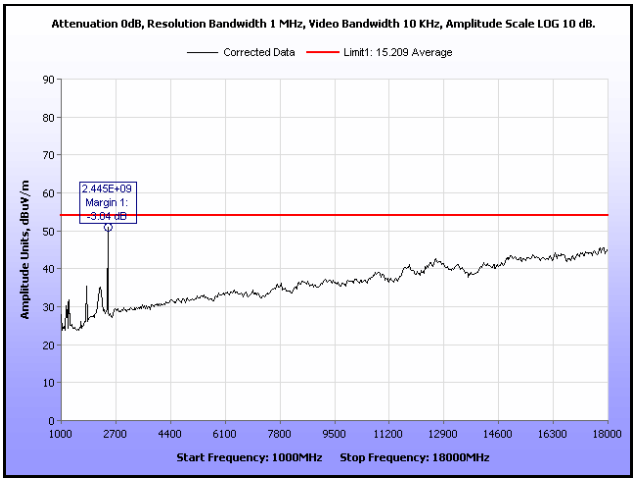
Plot 280. Radiated Spurious Emissions, Low Channel, 802.11n 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



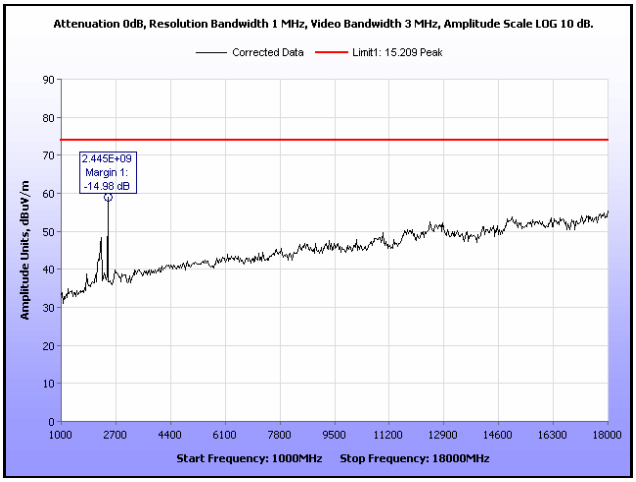
Plot 281. Radiated Spurious Emissions, Low Channel, 802.11n 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



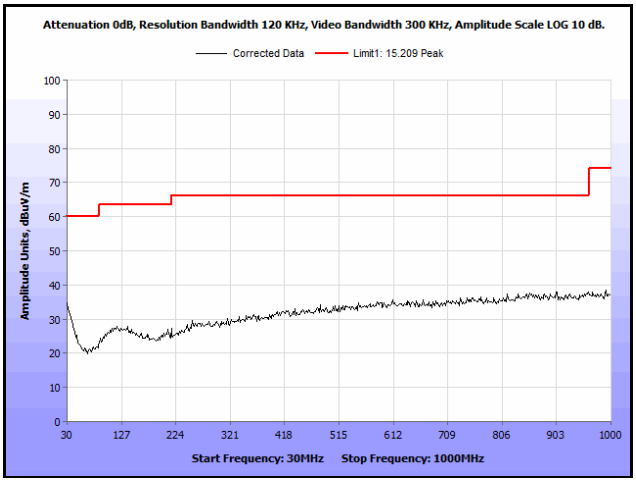
Plot 282. Radiated Spurious Emissions, Mid Channel, 802.11n 10 MHz, Parabolic Antenna, 30 MHz – 1 GHz



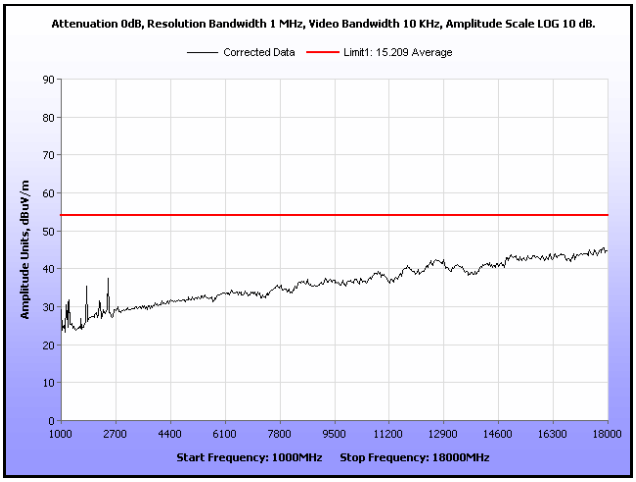
Plot 283. Radiated Spurious Emissions, Mid Channel, 802.11n 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



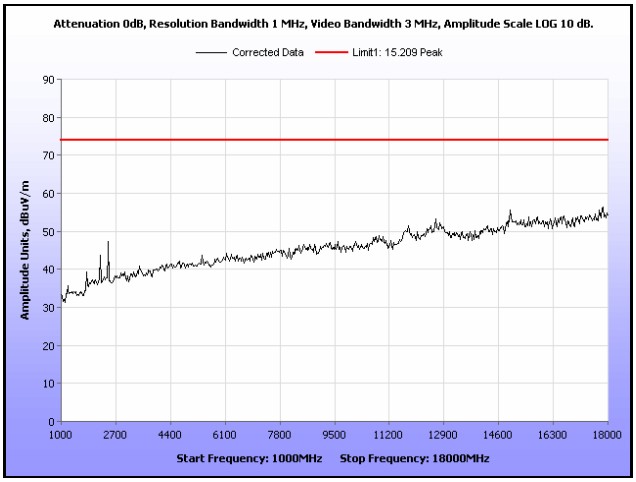
Plot 284. Radiated Spurious Emissions, Mid Channel, 802.11n 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



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

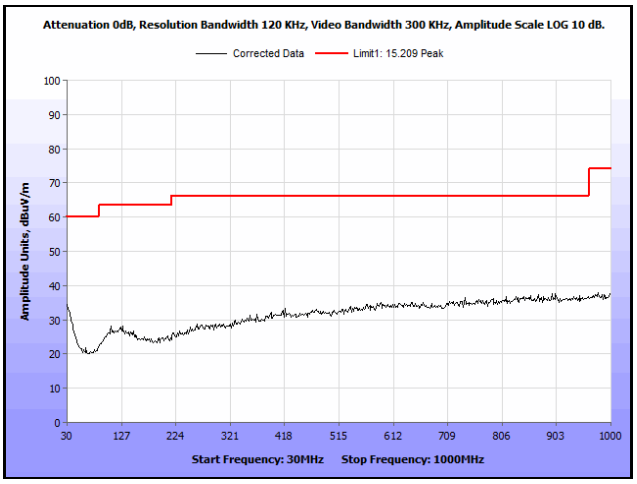


Plot 286. Radiated Spurious Emissions, High Channel, 802.11n 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average

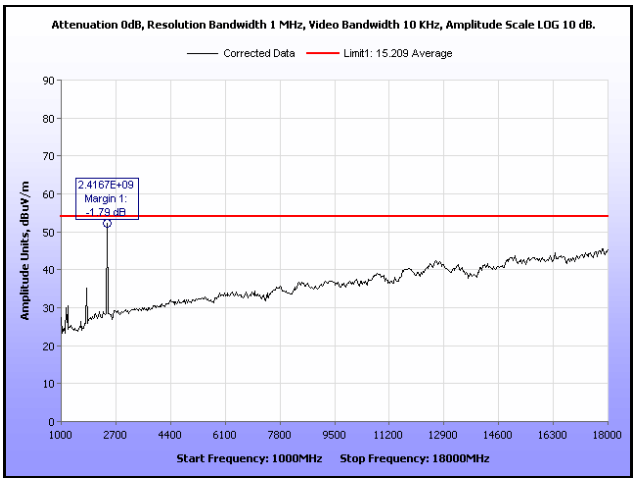


Plot 287. Radiated Spurious Emissions, High Channel, 802.11n 10 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak

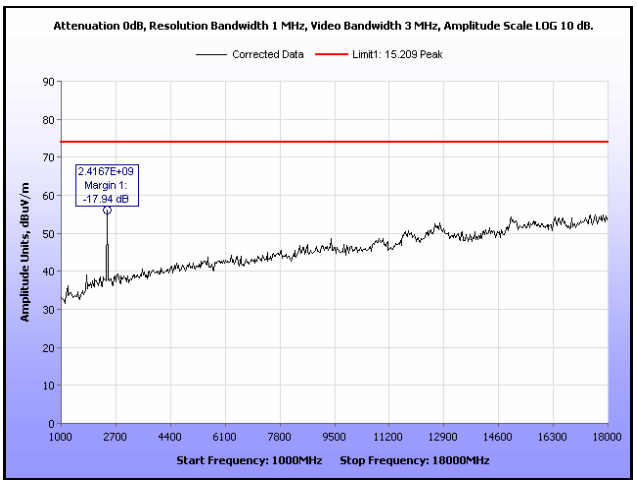
Radiated Spurious Emissions Test Results, 802.11b 20 MHz, Parabolic Antenna



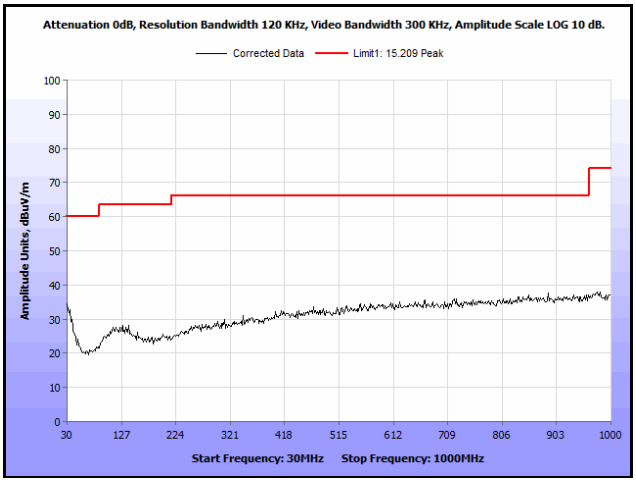
Plot 288. Radiated Spurious Emissions, Low Channel, 802.11b 20 MHz, Parabolic Antenna, 30 MHz – 1 GHz



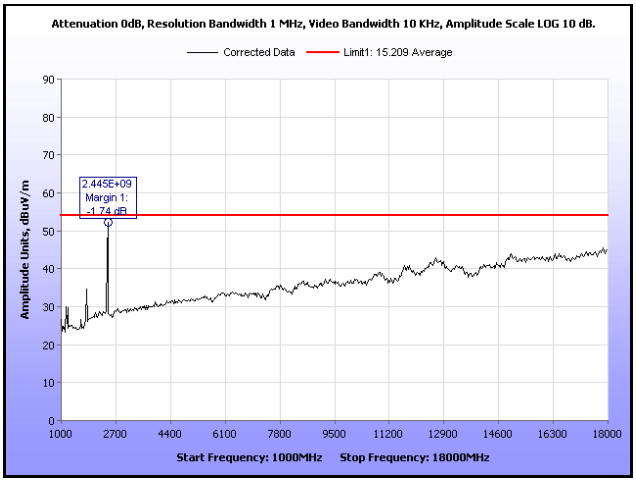
Plot 289. Radiated Spurious Emissions, Low Channel, 802.11b 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



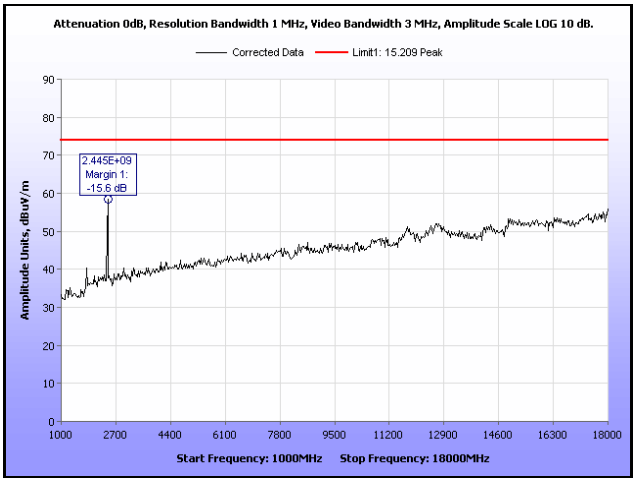
Plot 290. Radiated Spurious Emissions, Low Channel, 802.11b 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



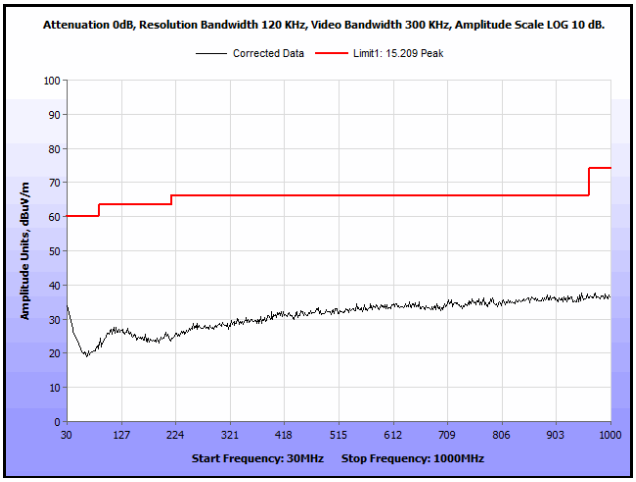
Plot 291. Radiated Spurious Emissions, Mid Channel, 802.11b 20 MHz, Parabolic Antenna, 30 MHz – 1 GHz



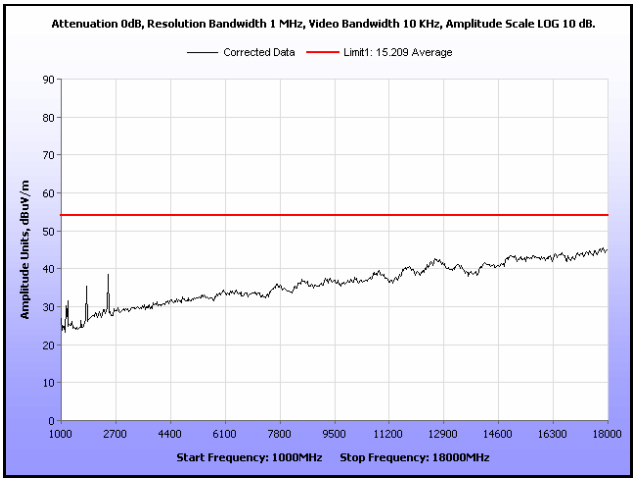
Plot 292. Radiated Spurious Emissions, Mid Channel, 802.11b 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



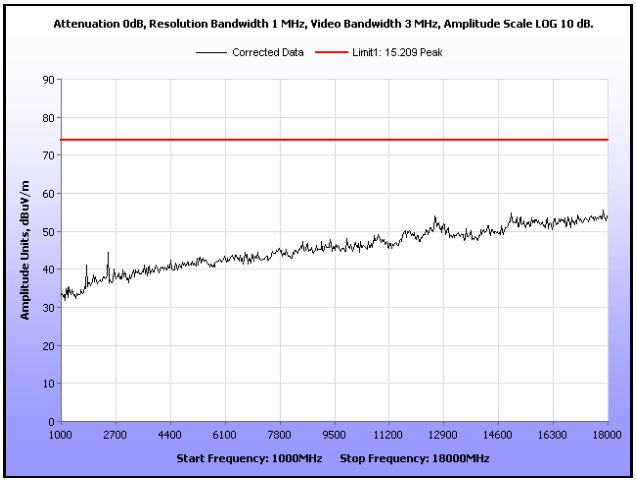
Plot 293. Radiated Spurious Emissions, Mid Channel, 802.11b 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



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

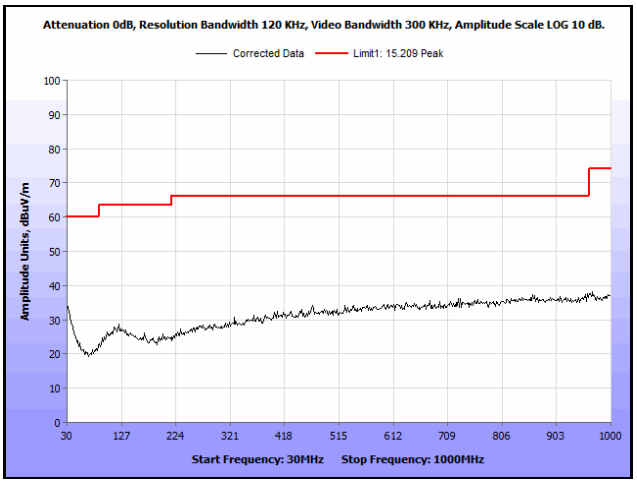


Plot 295. Radiated Spurious Emissions, High Channel, 802.11b 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average

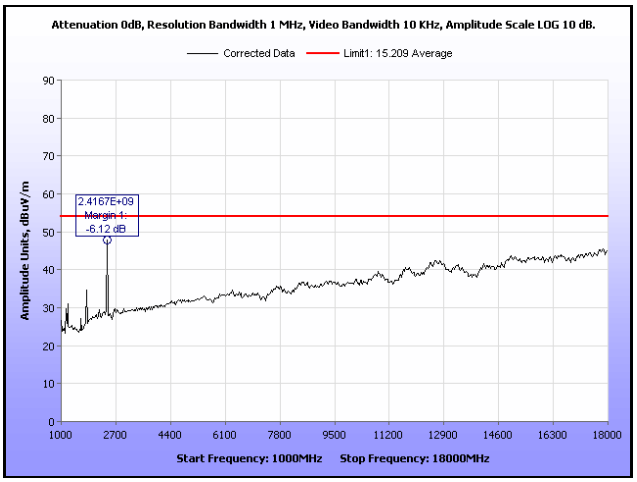


Plot 296. Radiated Spurious Emissions, High Channel, 802.11b 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak

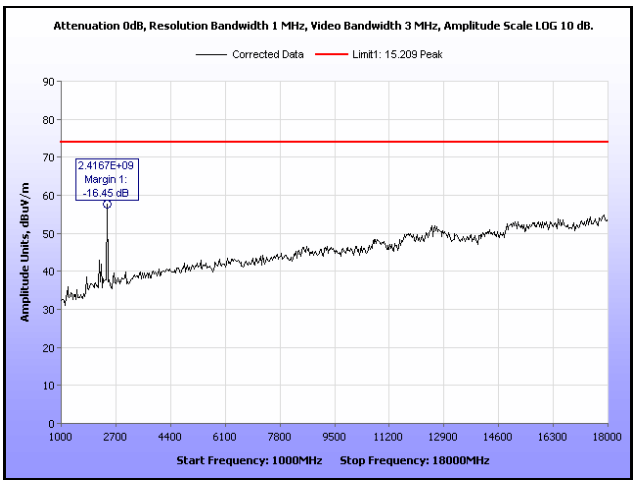
Radiated Spurious Emissions Test Results, 802.11g 20 MHz, Parabolic Antenna



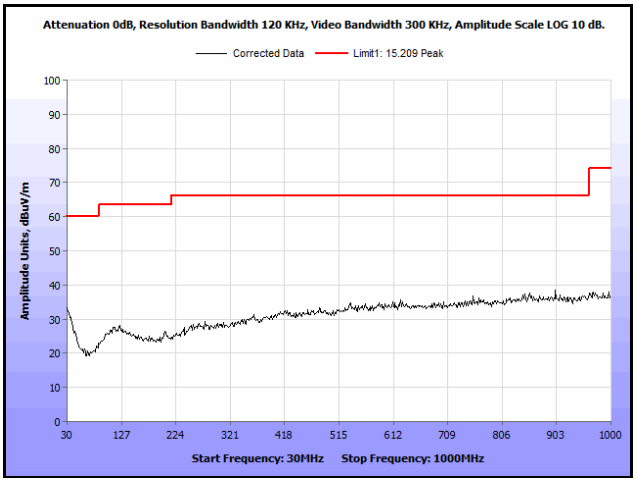
Plot 297. Radiated Spurious Emissions, Low Channel, 802.11g 20 MHz, Parabolic Antenna, 30 MHz – 1 GHz



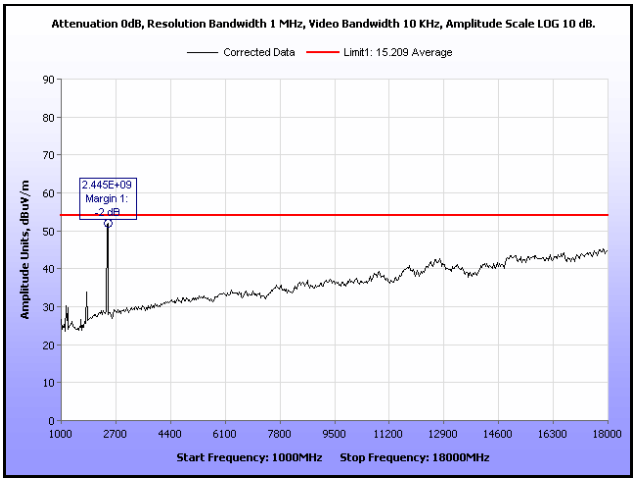
Plot 298. Radiated Spurious Emissions, Low Channel, 802.11g 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



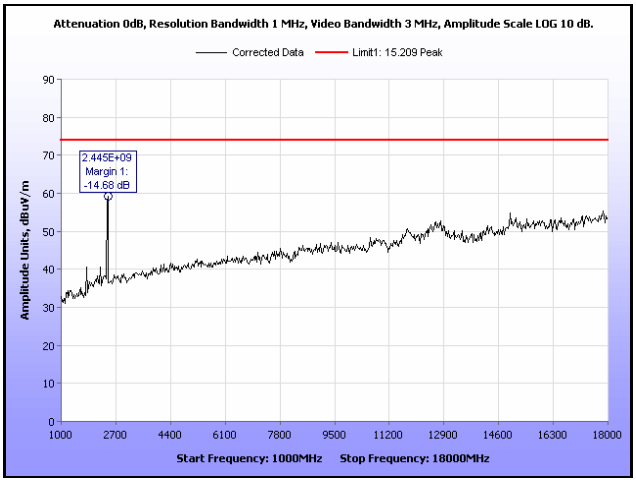
Plot 299. Radiated Spurious Emissions, Low Channel, 802.11g 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



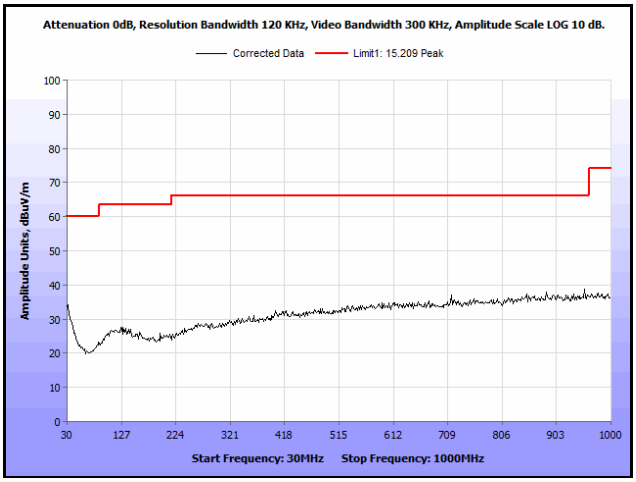
Plot 300. Radiated Spurious Emissions, Mid Channel, 802.11g 20 MHz, Parabolic Antenna, 30 MHz – 1 GHz



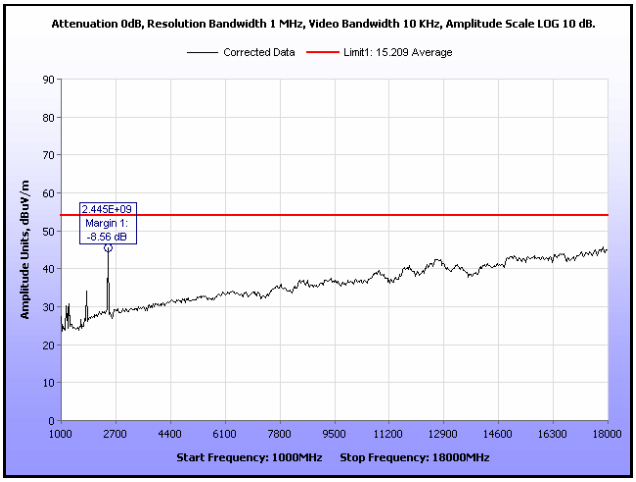
Plot 301. Radiated Spurious Emissions, Mid Channel, 802.11g 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



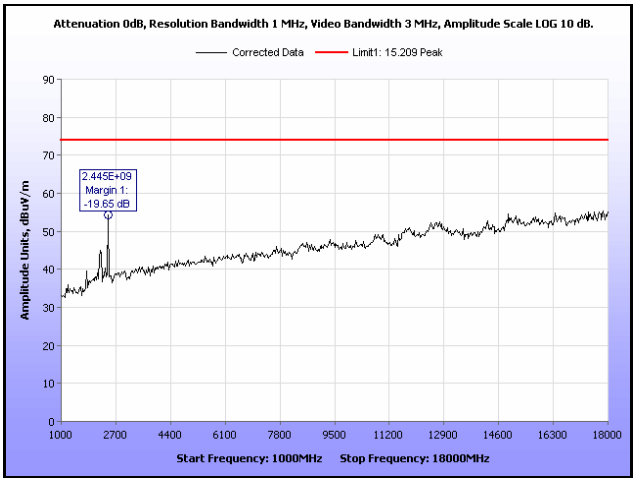
Plot 302. Radiated Spurious Emissions, Mid Channel, 802.11g 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



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

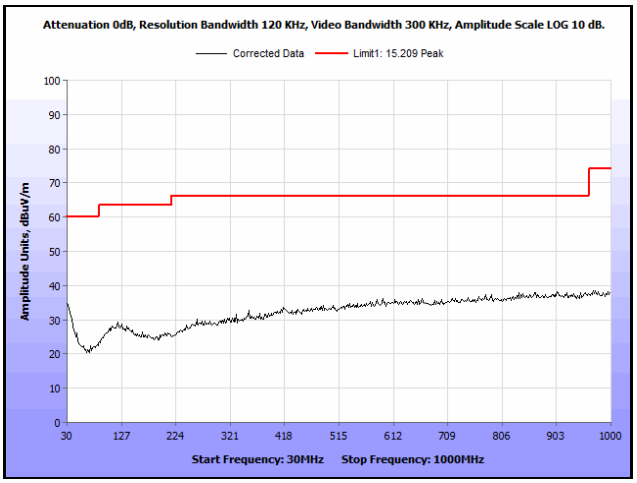


Plot 304. Radiated Spurious Emissions, High Channel, 802.11g 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average

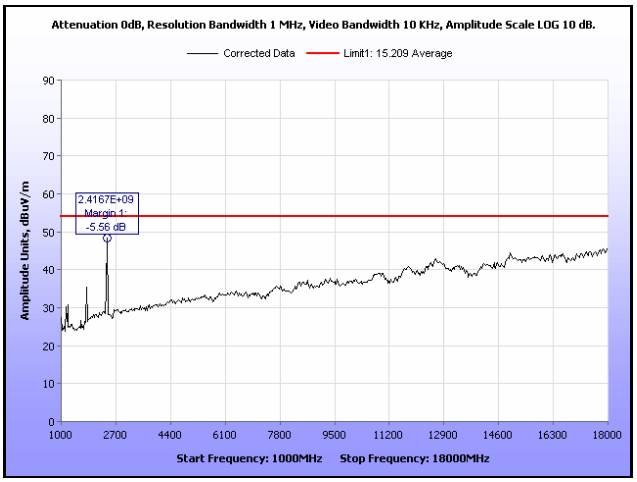


Plot 305. Radiated Spurious Emissions, High Channel, 802.11g 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak

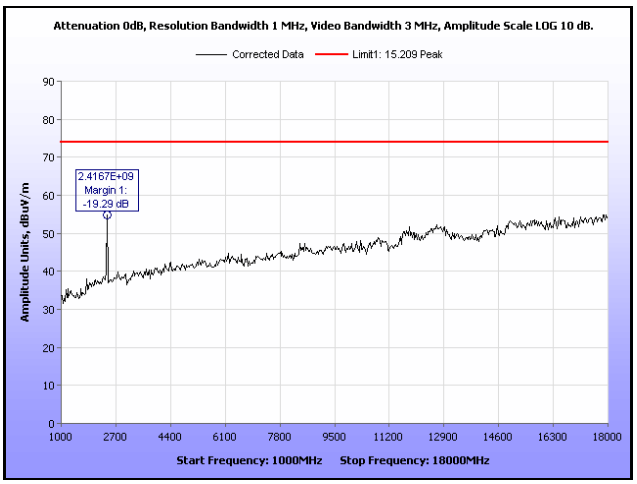
Radiated Spurious Emissions Test Results, 802.11n 20 MHz, Parabolic Antenna



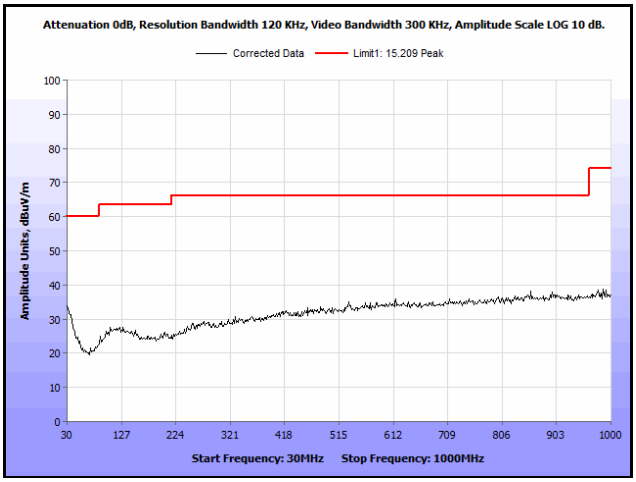
Plot 306. Radiated Spurious Emissions, Low Channel, 802.11n 20 MHz, Parabolic Antenna, 30 MHz – 1 GHz



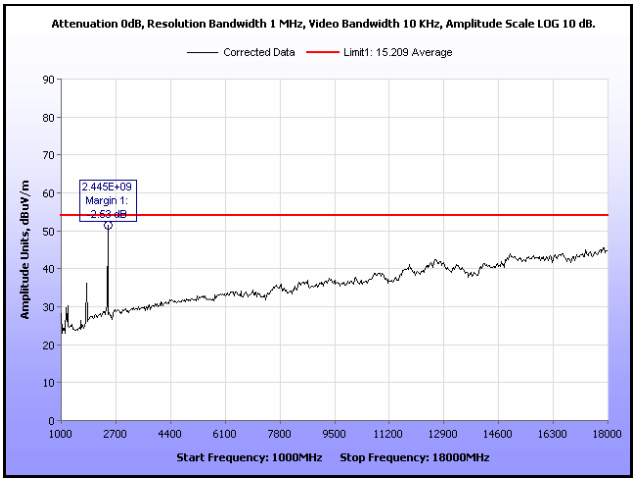
Plot 307. Radiated Spurious Emissions, Low Channel, 802.11n 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



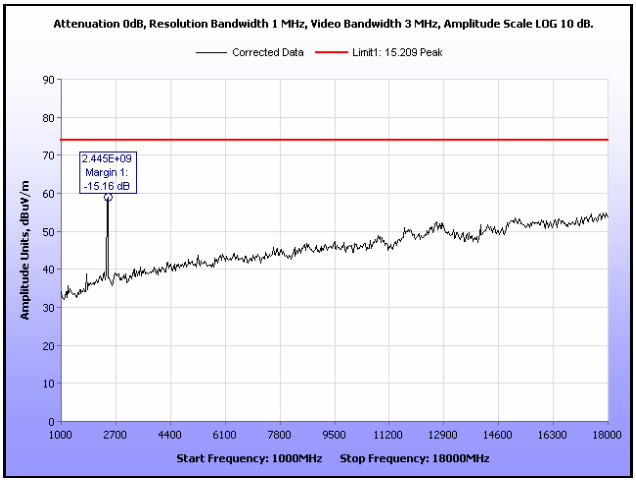
Plot 308. Radiated Spurious Emissions, Low Channel, 802.11n 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



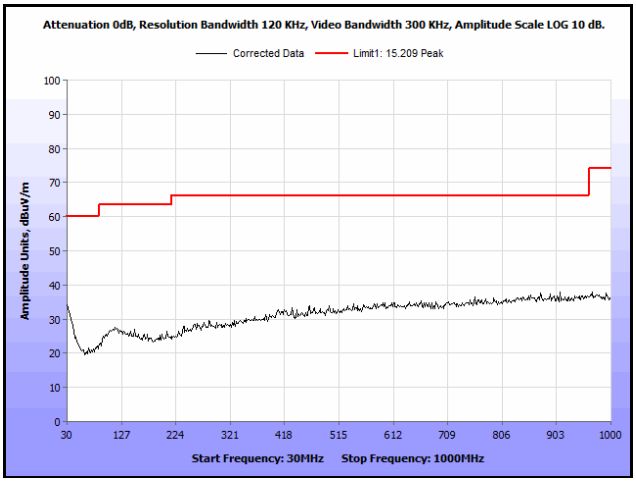
Plot 309. Radiated Spurious Emissions, Mid Channel, 802.11n 20 MHz, Parabolic Antenna, 30 MHz – 1 GHz



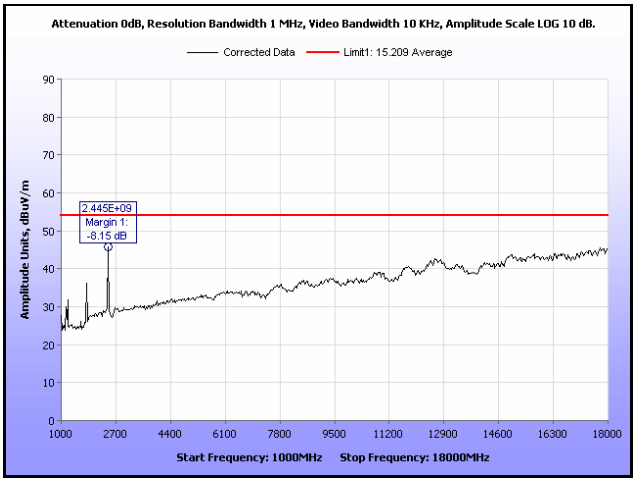
Plot 310. Radiated Spurious Emissions, Mid Channel, 802.11n 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



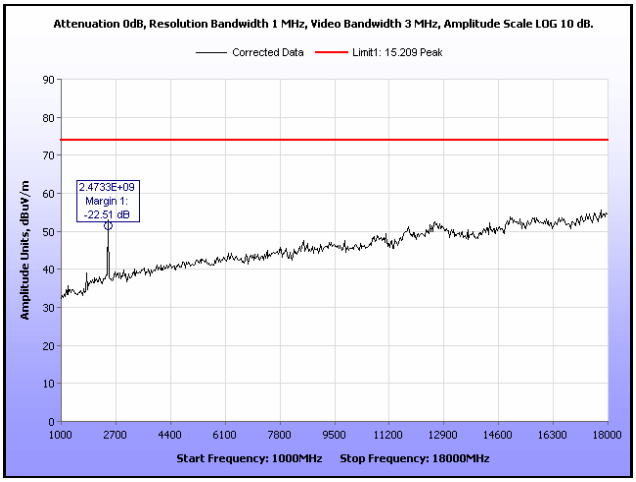
Plot 311. Radiated Spurious Emissions, Mid Channel, 802.11n 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



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

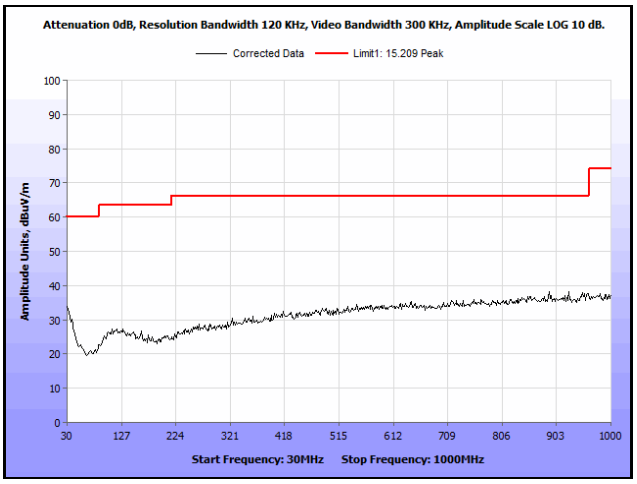


Plot 313. Radiated Spurious Emissions, High Channel, 802.11n 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average

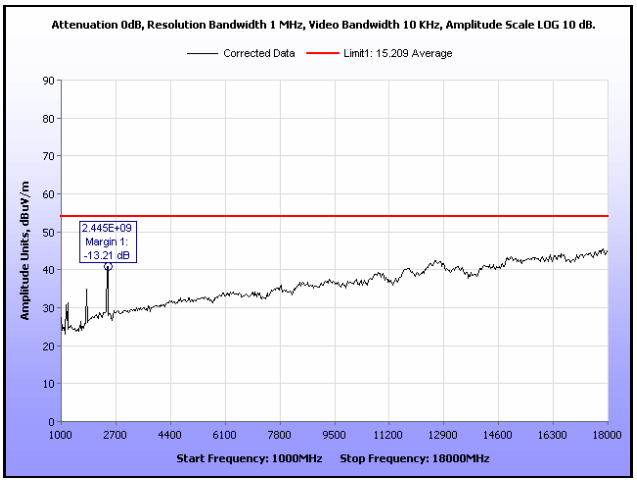


Plot 314. Radiated Spurious Emissions, High Channel, 802.11n 20 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak

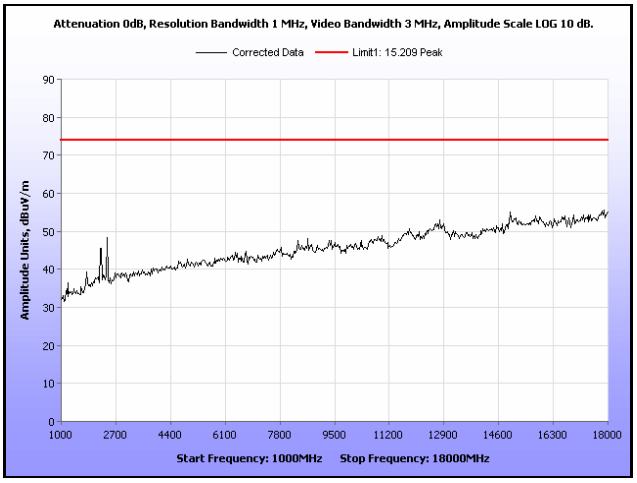
Radiated Spurious Emissions Test Results, 802.11g 40 MHz, Parabolic Antenna



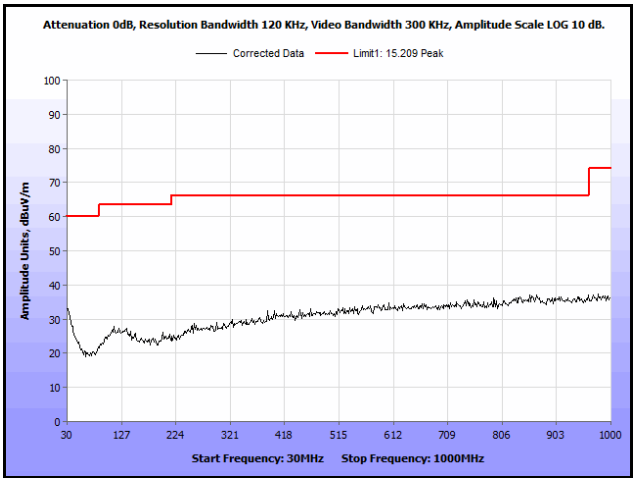
Plot 315. Radiated Spurious Emissions, Low Channel, 802.11g 40 MHz, Parabolic Antenna, 30 MHz – 1 GHz



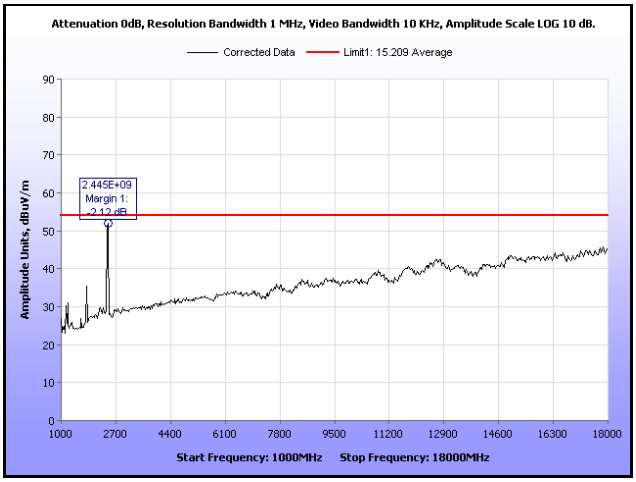
Plot 316. Radiated Spurious Emissions, Low Channel, 802.11g 40 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



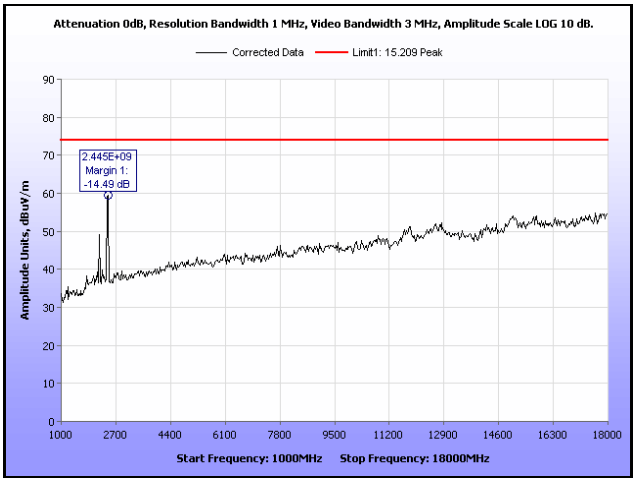
Plot 317. Radiated Spurious Emissions, Low Channel, 802.11g 40 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



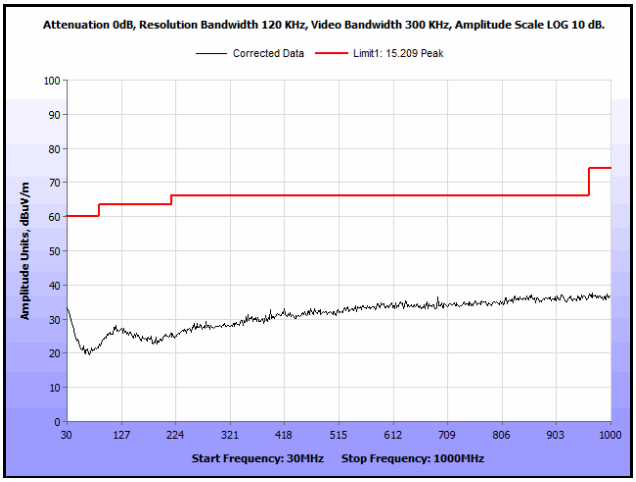
Plot 318. Radiated Spurious Emissions, Mid Channel, 802.11g 40 MHz, Parabolic Antenna, 30 MHz – 1 GHz



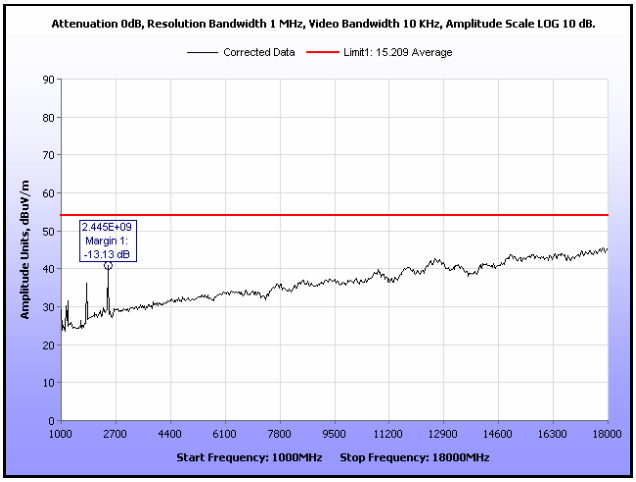
Plot 319. Radiated Spurious Emissions, Mid Channel, 802.11g 40 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



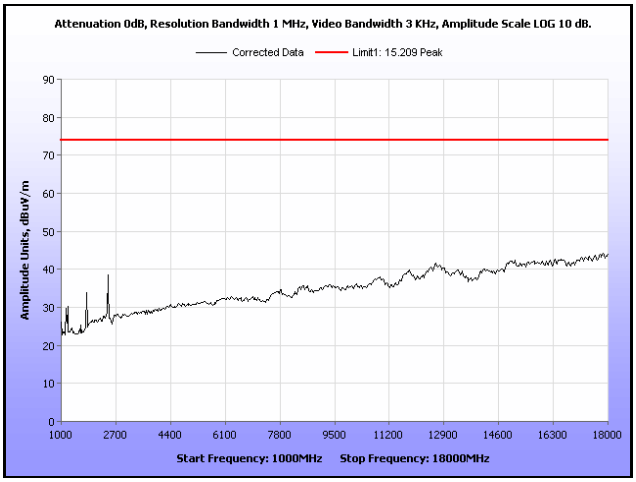
Plot 320. Radiated Spurious Emissions, Mid Channel, 802.11g 40 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



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

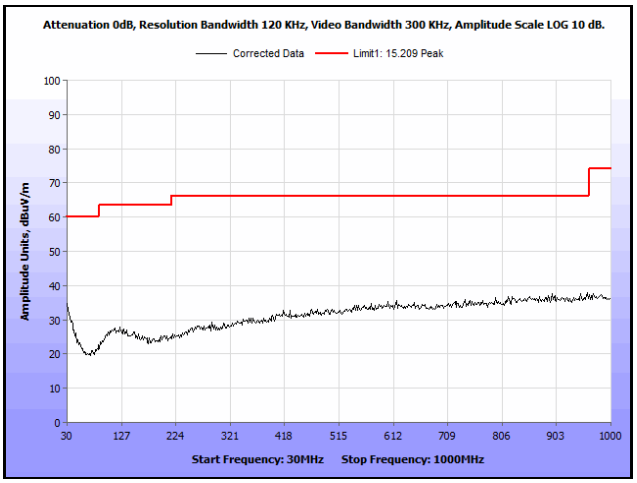


Plot 322. Radiated Spurious Emissions, High Channel, 802.11g 40 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average

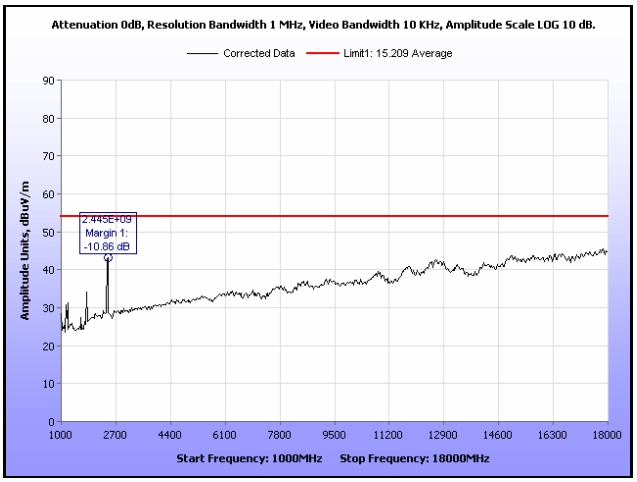


Plot 323. Radiated Spurious Emissions, High Channel, 802.11g 40 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak

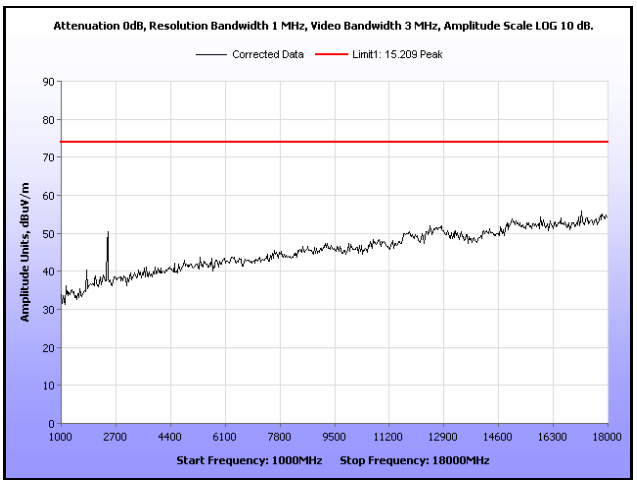
Radiated Spurious Emissions Test Results, 802.11n 40 MHz, Parabolic Antenna



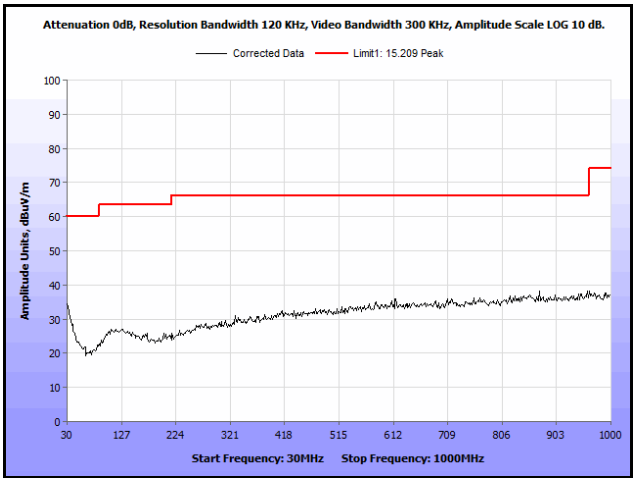
Plot 324. Radiated Spurious Emissions, Low Channel, 802.11n 40 MHz, Parabolic Antenna, 30 MHz – 1 GHz



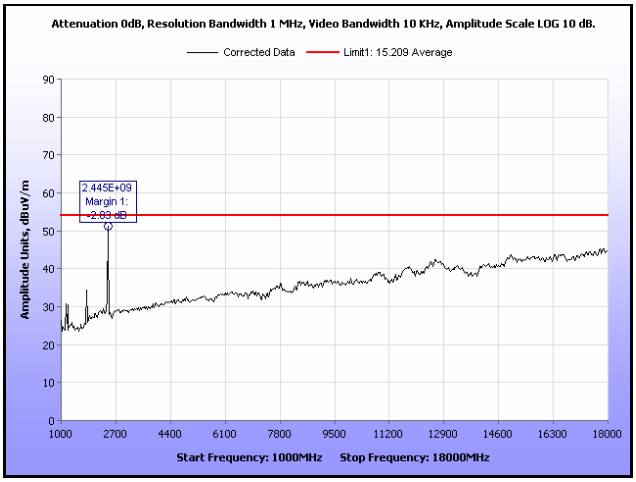
Plot 325. Radiated Spurious Emissions, Low Channel, 802.11n 40 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



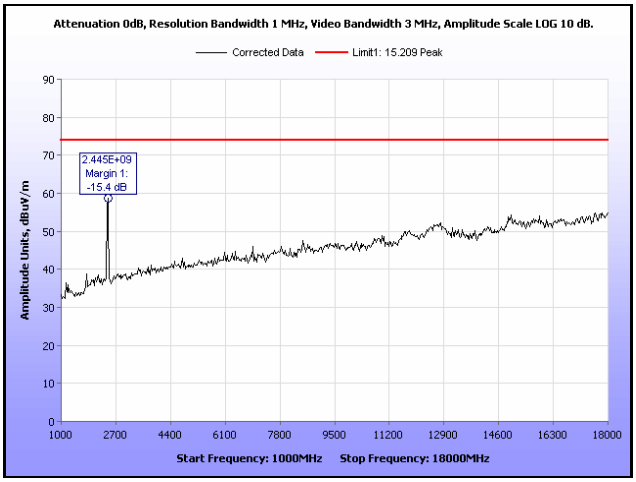
Plot 326. Radiated Spurious Emissions, Low Channel, 802.11n 40 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



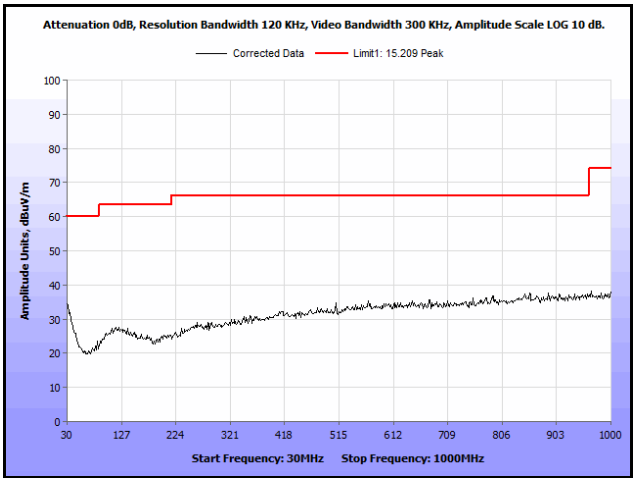
Plot 327. Radiated Spurious Emissions, Mid Channel, 802.11n 40 MHz, Parabolic Antenna, 30 MHz – 1 GHz



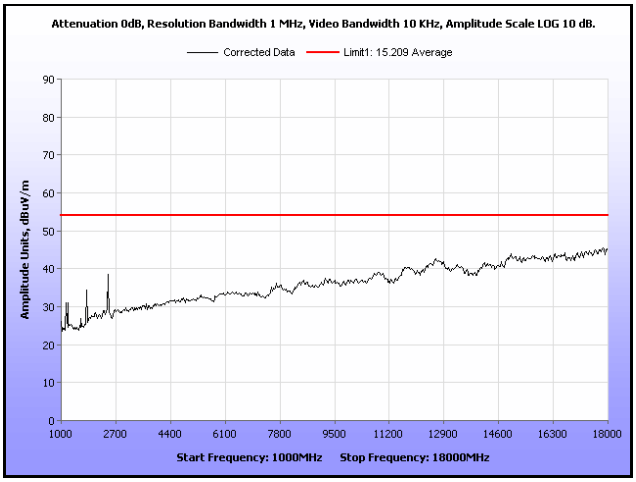
Plot 328. Radiated Spurious Emissions, Mid Channel, 802.11n 40 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average



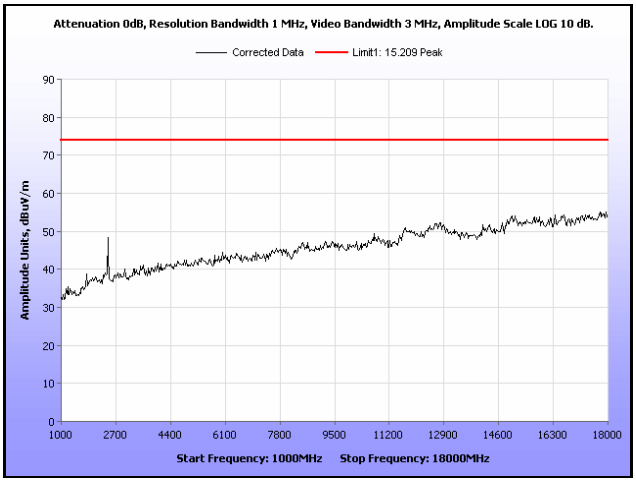
Plot 329. Radiated Spurious Emissions, Mid Channel, 802.11n 40 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak



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

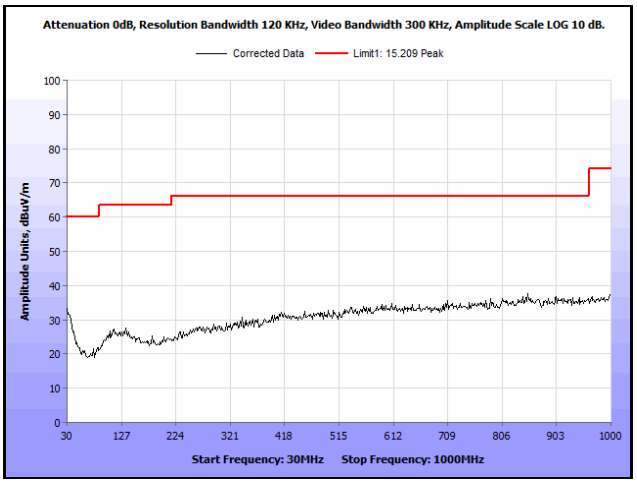


Plot 331. Radiated Spurious Emissions, High Channel, 802.11n 40 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Average

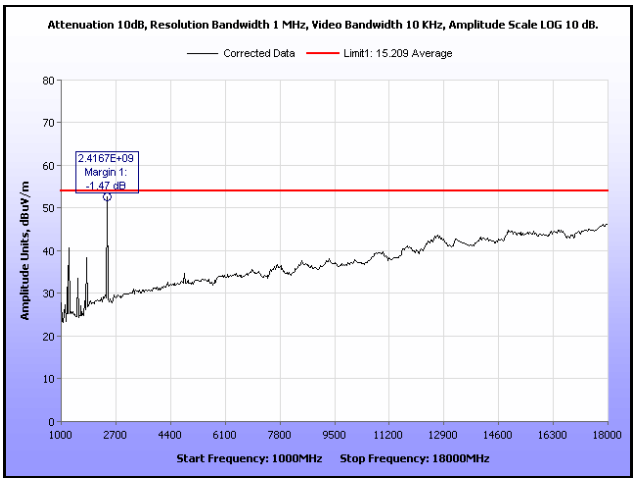


Plot 332. Radiated Spurious Emissions, High Channel, 802.11n 40 MHz, Parabolic Antenna, 1 GHz – 18 GHz, Peak

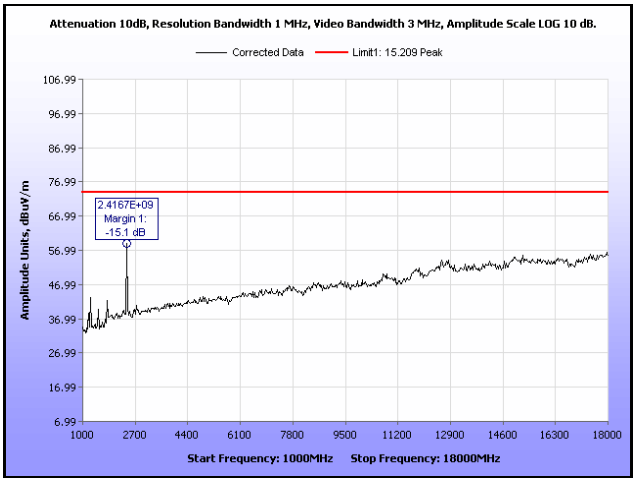
Radiated Spurious Emissions Test Results, 802.11b 5 MHz, Yagi Antenna



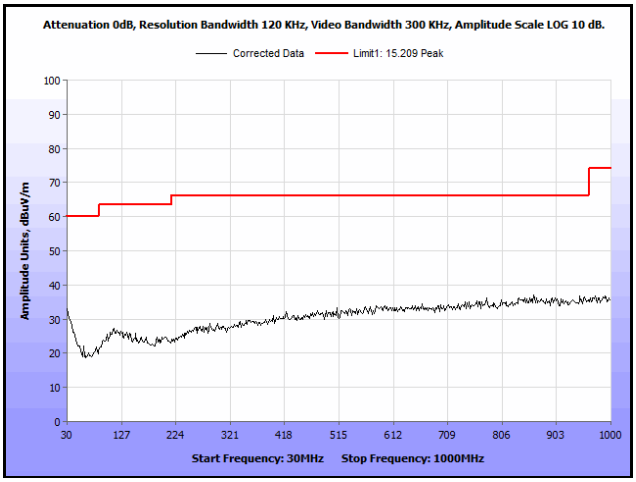
Plot 333. Radiated Spurious Emissions, Low Channel, 802.11b 5 MHz, Yagi Antenna, 30 MHz – 1 GHz



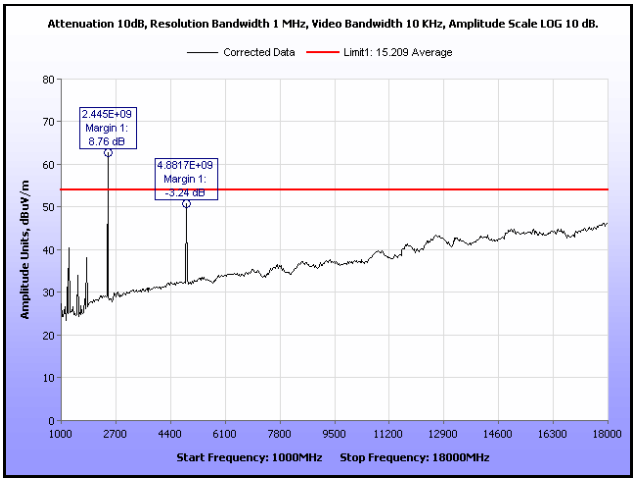
Plot 334. Radiated Spurious Emissions, Low Channel, 802.11b 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average



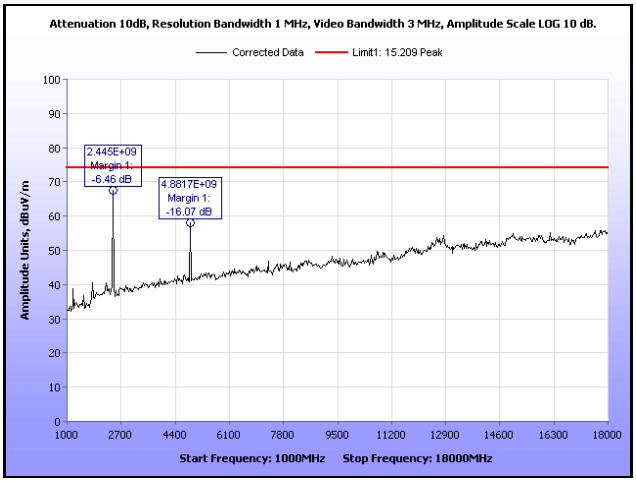
Plot 335. Radiated Spurious Emissions, Low Channel, 802.11b 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak



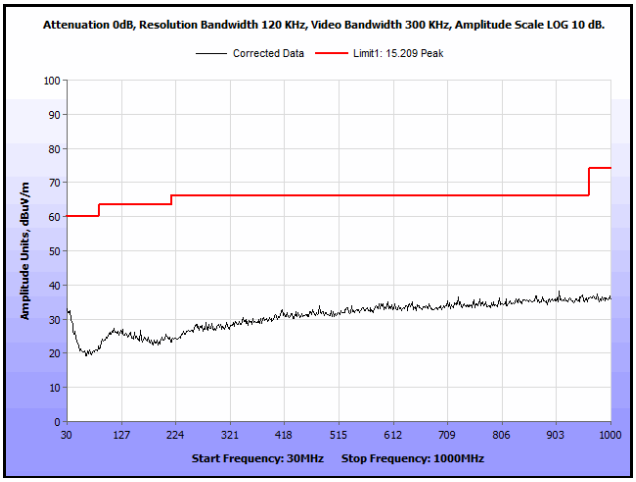
Plot 336. Radiated Spurious Emissions, Mid Channel, 802.11b 5 MHz, Yagi Antenna, 30 MHz – 1 GHz



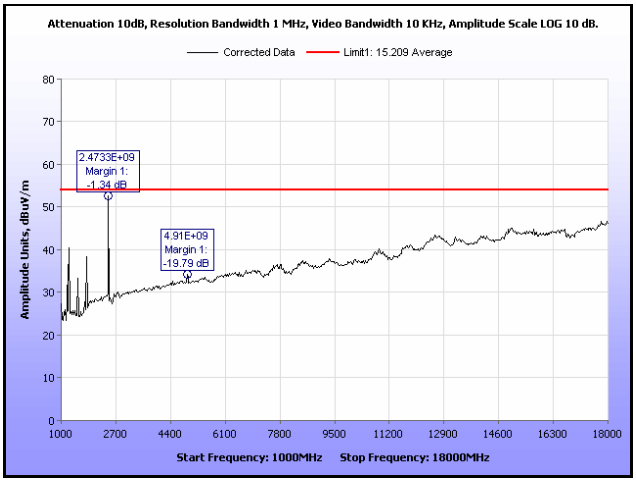
Plot 337. Radiated Spurious Emissions, Mid Channel, 802.11b 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average



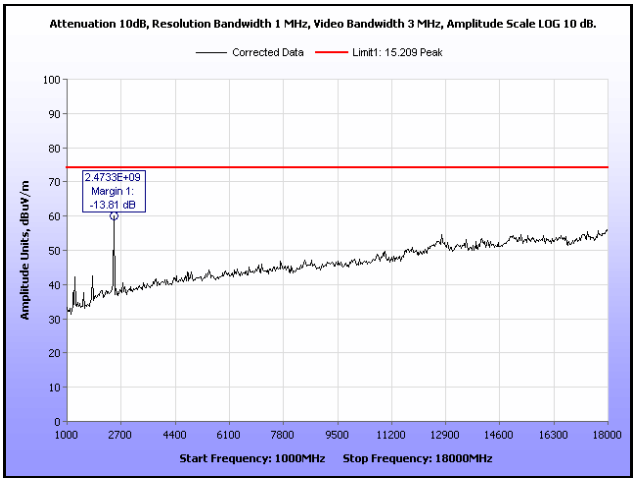
Plot 338. Radiated Spurious Emissions, Mid Channel, 802.11b 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak



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

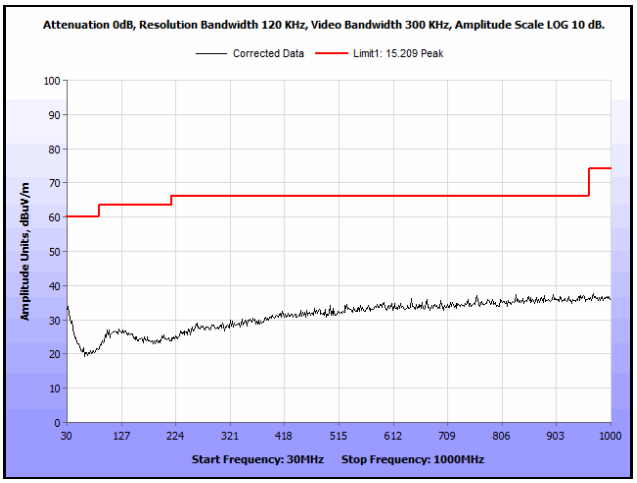


Plot 340. Radiated Spurious Emissions, High Channel, 802.11b 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average

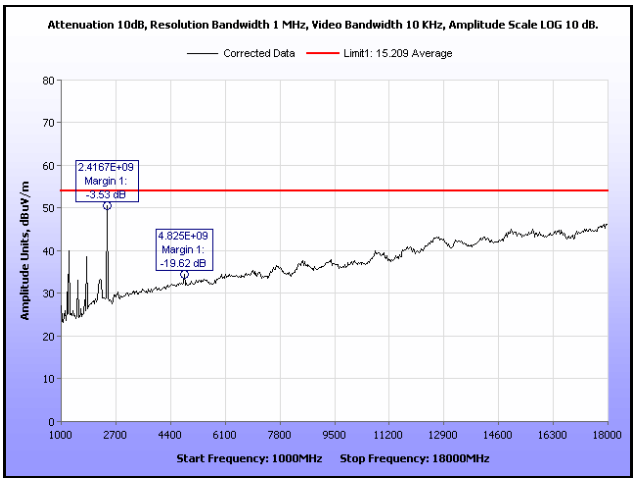


Plot 341. Radiated Spurious Emissions, High Channel, 802.11b 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak

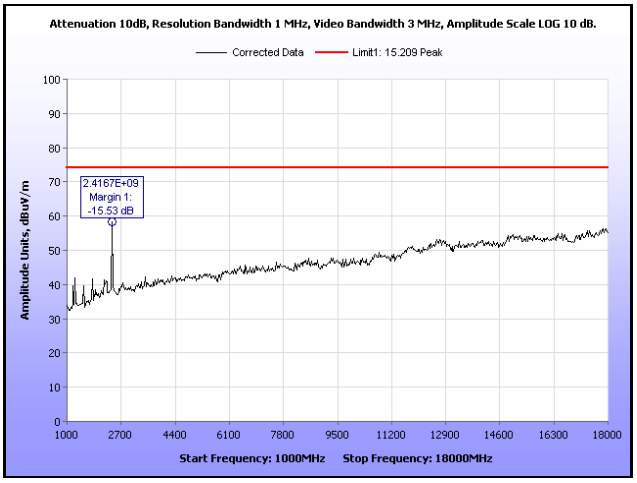
Radiated Spurious Emissions Test Results, 802.11g 5 MHz, Yagi Antenna



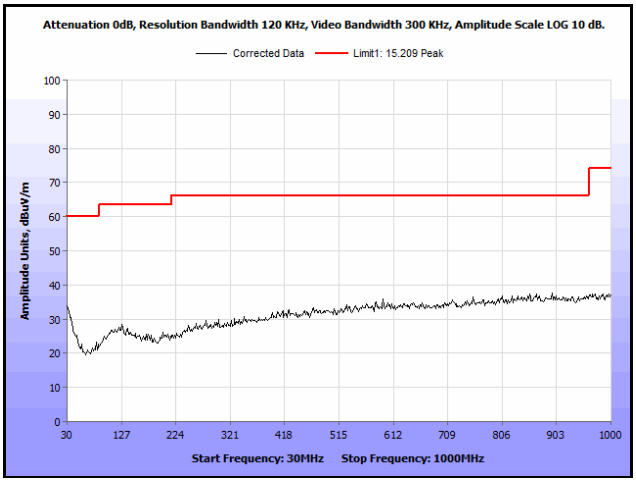
Plot 342. Radiated Spurious Emissions, Low Channel, 802.11g 5 MHz, Yagi Antenna, 30 MHz – 1 GHz



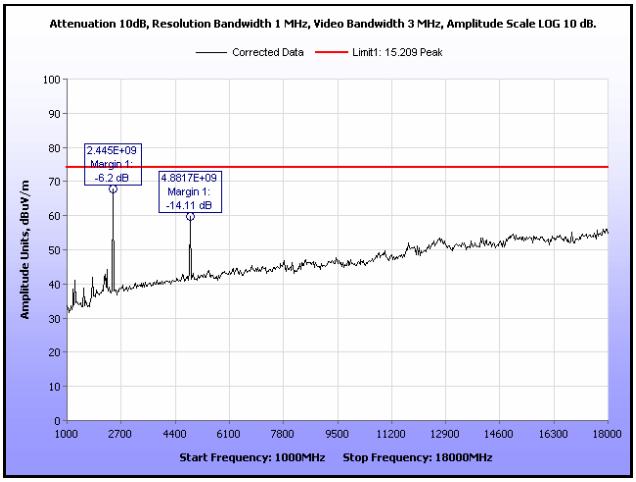
Plot 343. Radiated Spurious Emissions, Low Channel, 802.11g 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average



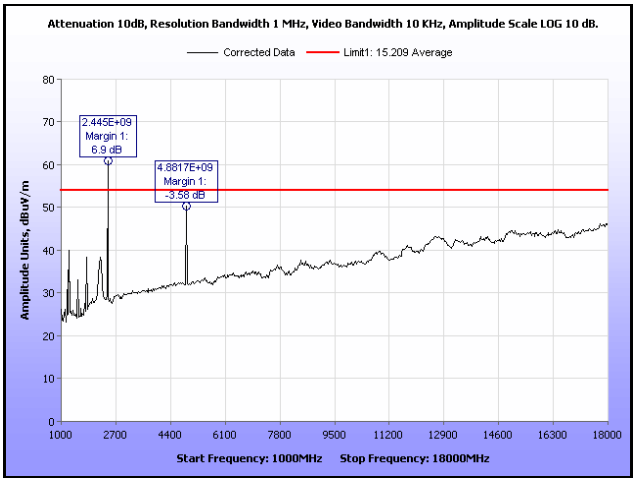
Plot 344. Radiated Spurious Emissions, Low Channel, 802.11g 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak



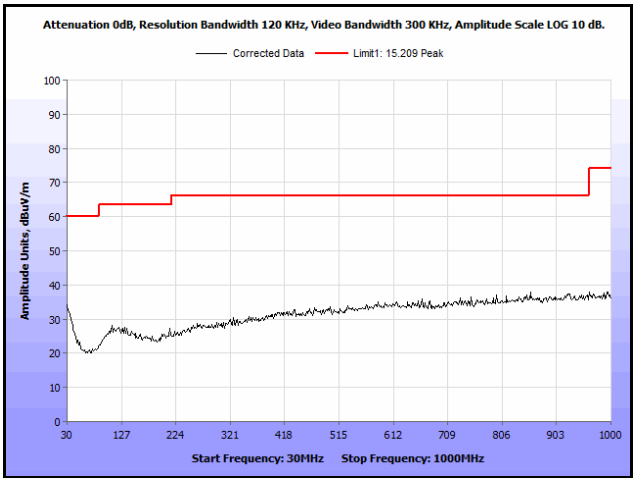
Plot 345. Radiated Spurious Emissions, Mid Channel, 802.11g 5 MHz, Yagi Antenna, 30 MHz – 1 GHz



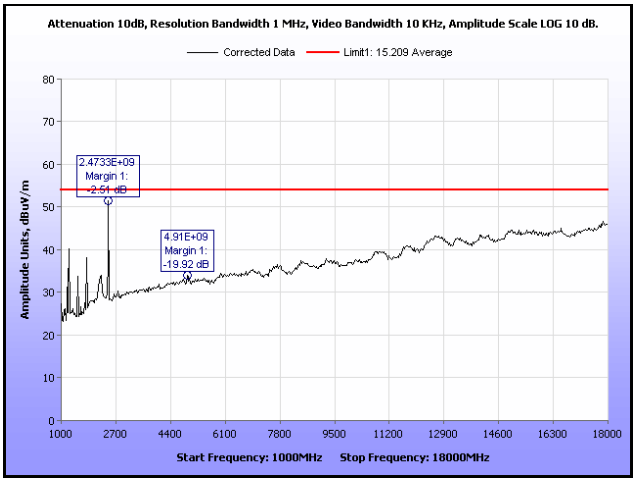
Plot 346. Radiated Spurious Emissions, Mid Channel, 802.11g 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average



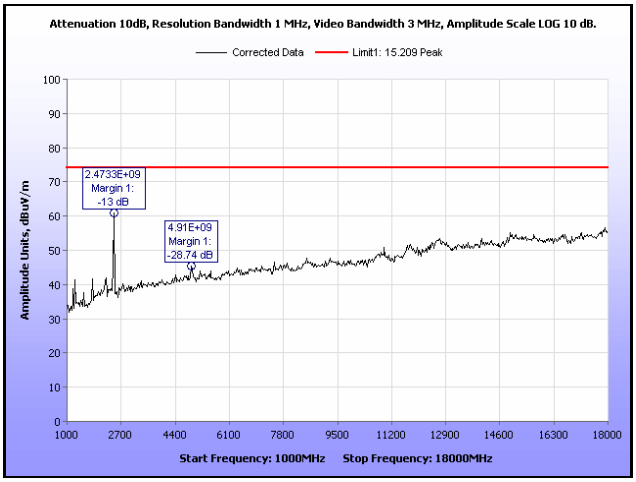
Plot 347. Radiated Spurious Emissions, Mid Channel, 802.11g 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak



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

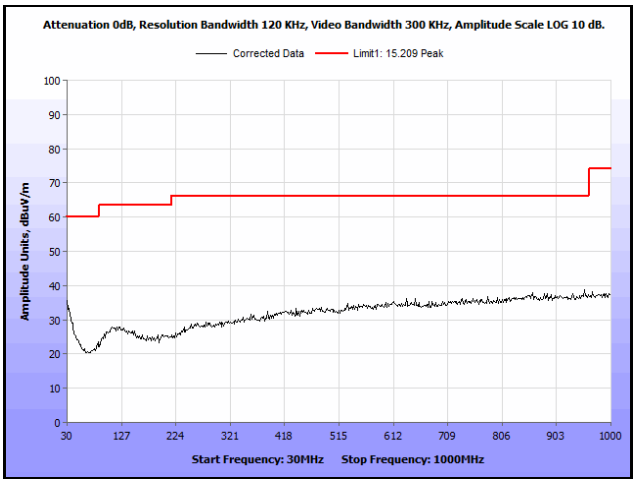


Plot 349. Radiated Spurious Emissions, High Channel, 802.11g 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average

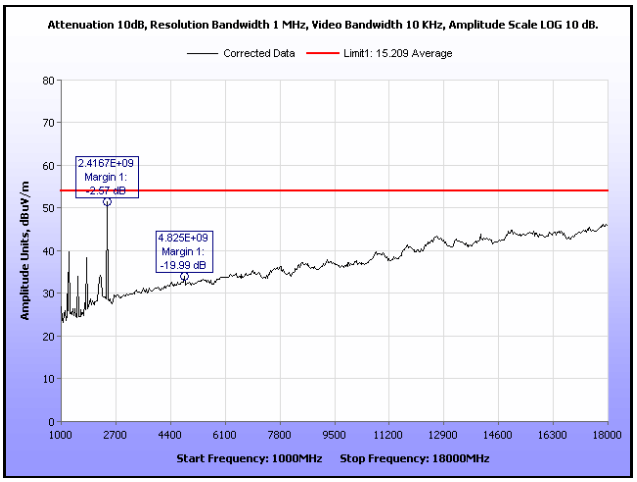


Plot 350. Radiated Spurious Emissions, High Channel, 802.11g 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak

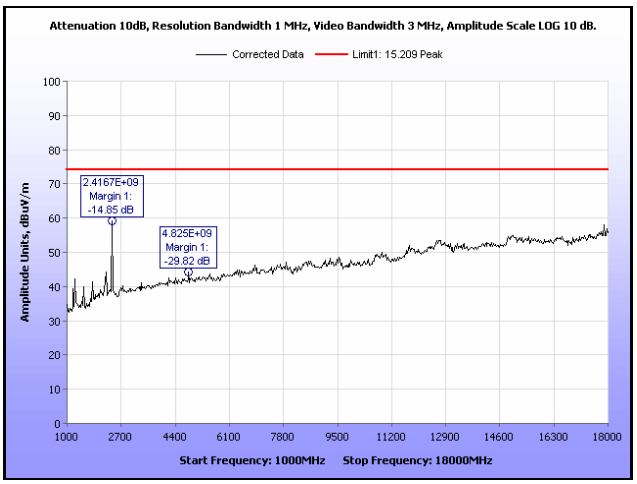
Radiated Spurious Emissions Test Results, 802.11n 5 MHz, Yagi Antenna



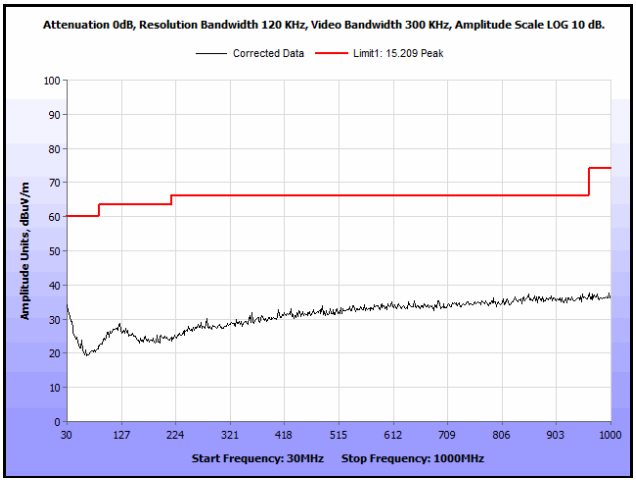
Plot 351. Radiated Spurious Emissions, Low Channel, 802.11n 5 MHz, Yagi Antenna, 30 MHz – 1 GHz



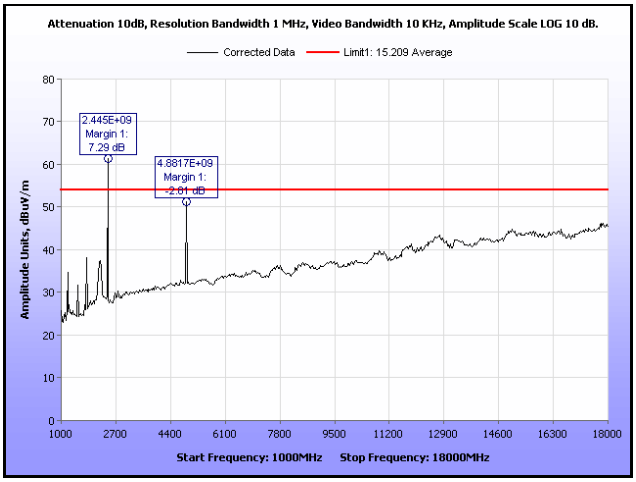
Plot 352. Radiated Spurious Emissions, Low Channel, 802.11n 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average



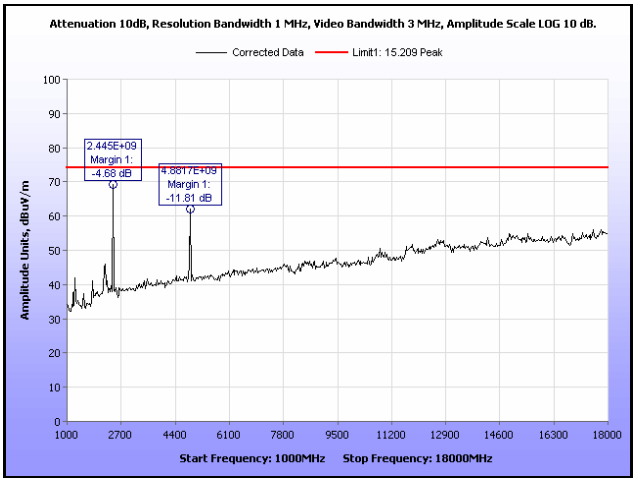
Plot 353. Radiated Spurious Emissions, Low Channel, 802.11n 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak



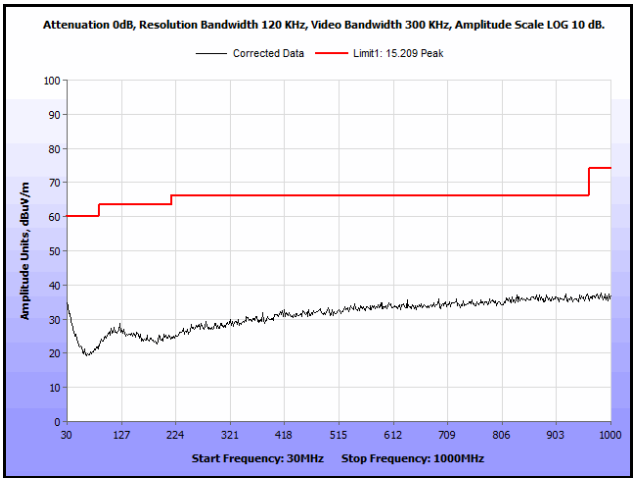
Plot 354. Radiated Spurious Emissions, Mid Channel, 802.11n 5 MHz, Yagi Antenna, 30 MHz – 1 GHz



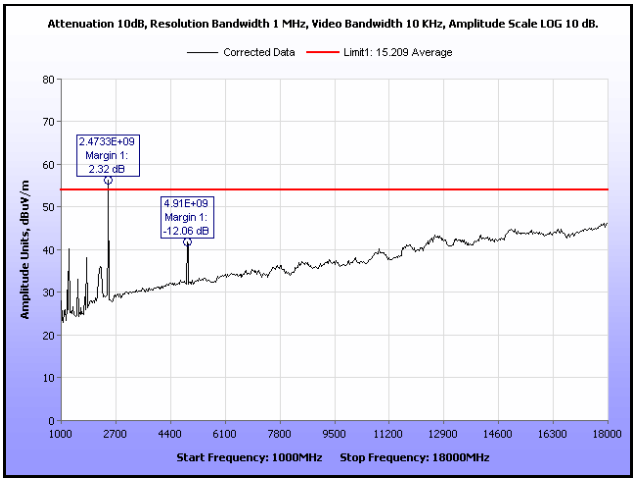
Plot 355. Radiated Spurious Emissions, Mid Channel, 802.11n 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average



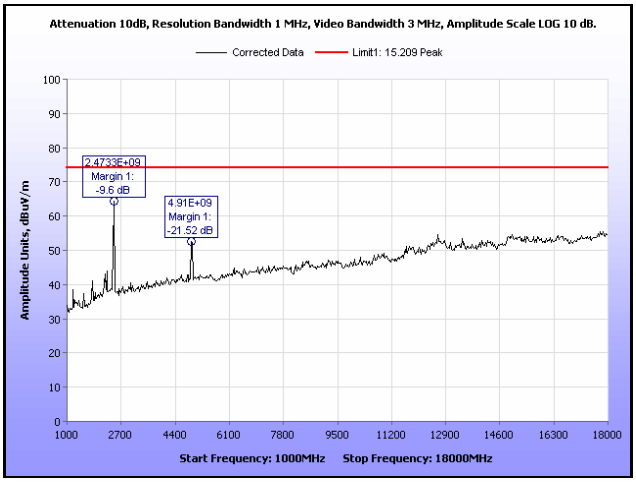
Plot 356. Radiated Spurious Emissions, Mid Channel, 802.11n 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak



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

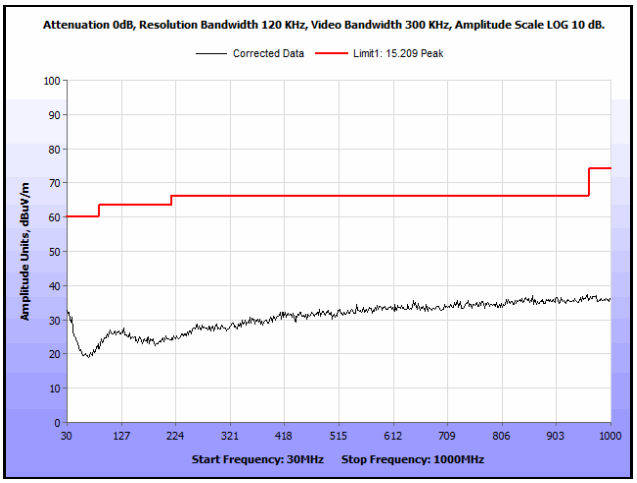


Plot 358. Radiated Spurious Emissions, High Channel, 802.11n 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average

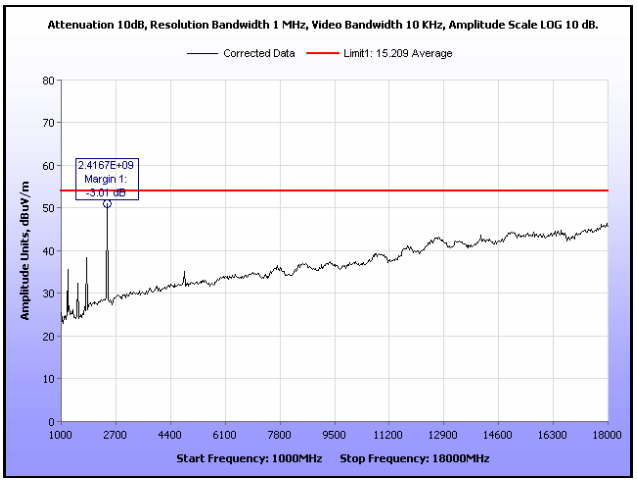


Plot 359. Radiated Spurious Emissions, High Channel, 802.11n 5 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak

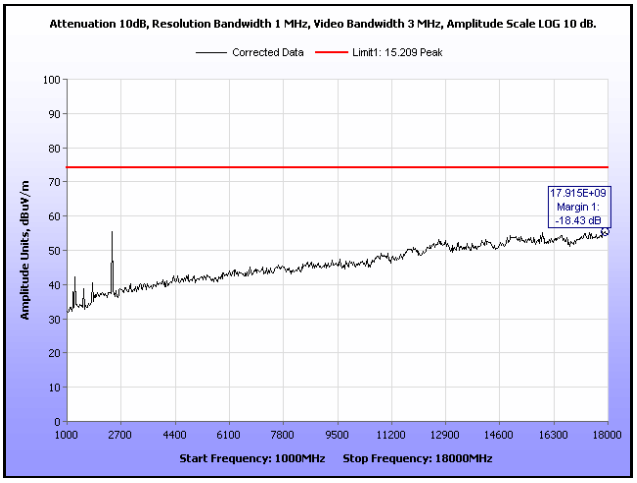
Radiated Spurious Emissions Test Results, 802.11b 10 MHz, Yagi Antenna



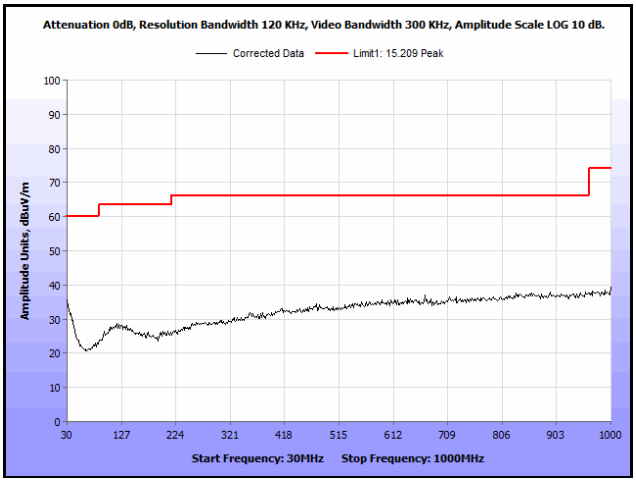
Plot 360. Radiated Spurious Emissions, Low Channel, 802.11b 10 MHz, Yagi Antenna, 30 MHz – 1 GHz



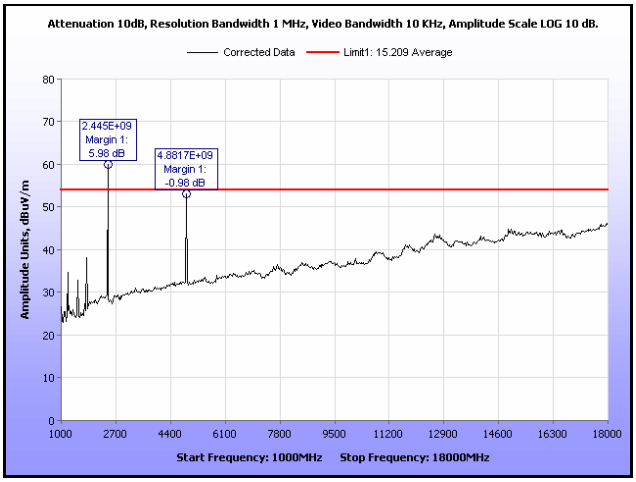
Plot 361. Radiated Spurious Emissions, Low Channel, 802.11b 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average



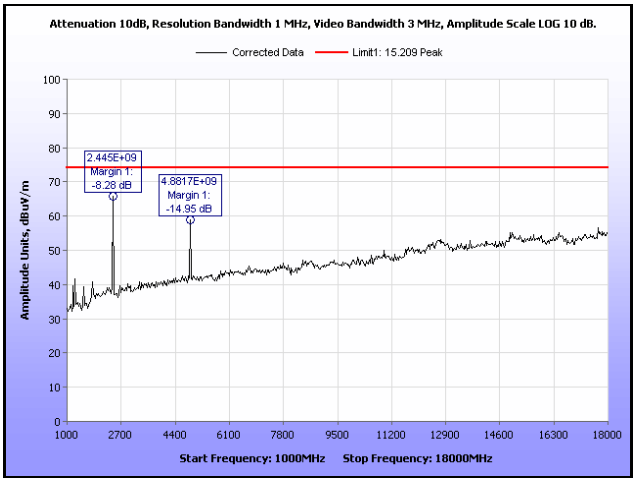
Plot 362. Radiated Spurious Emissions, Low Channel, 802.11b 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak



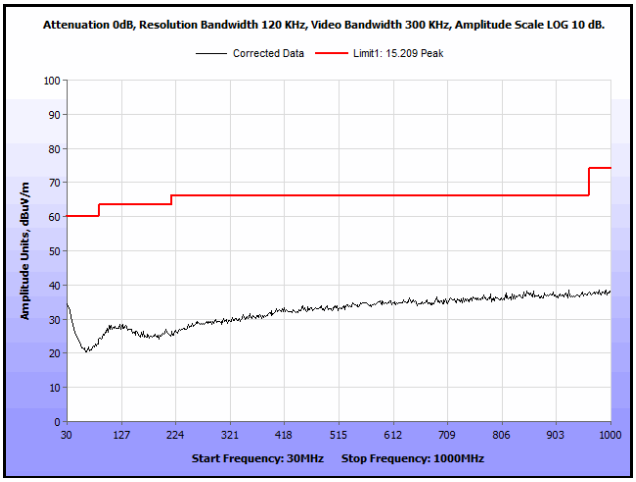
Plot 363. Radiated Spurious Emissions, Mid Channel, 802.11b 10 MHz, Yagi Antenna, 30 MHz – 1 GHz



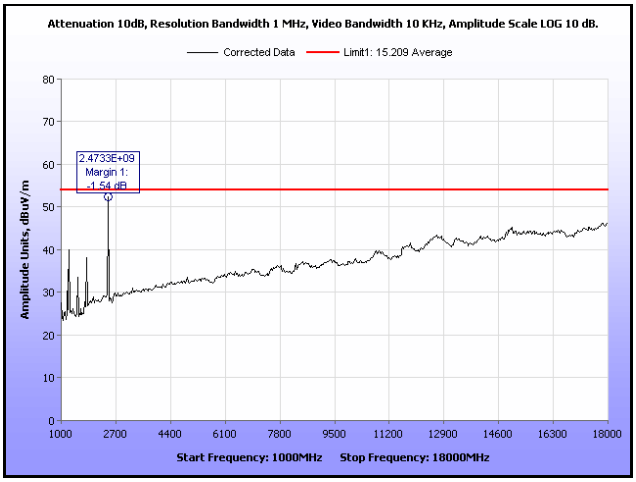
Plot 364. Radiated Spurious Emissions, Mid Channel, 802.11b 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average



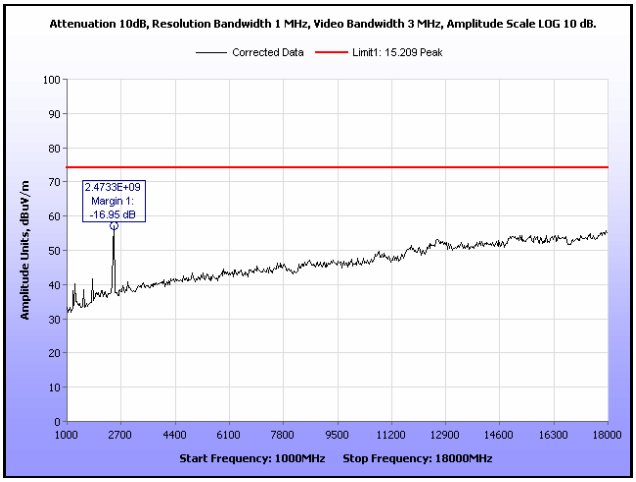
Plot 365. Radiated Spurious Emissions, Mid Channel, 802.11b 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak



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

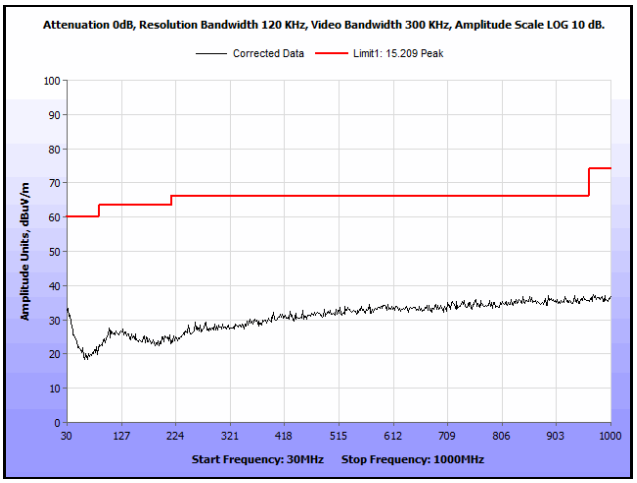


Plot 367. Radiated Spurious Emissions, High Channel, 802.11b 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average

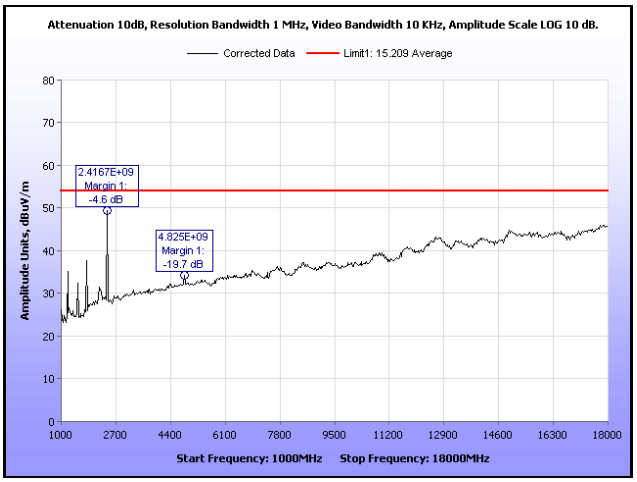


Plot 368. Radiated Spurious Emissions, High Channel, 802.11b 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak

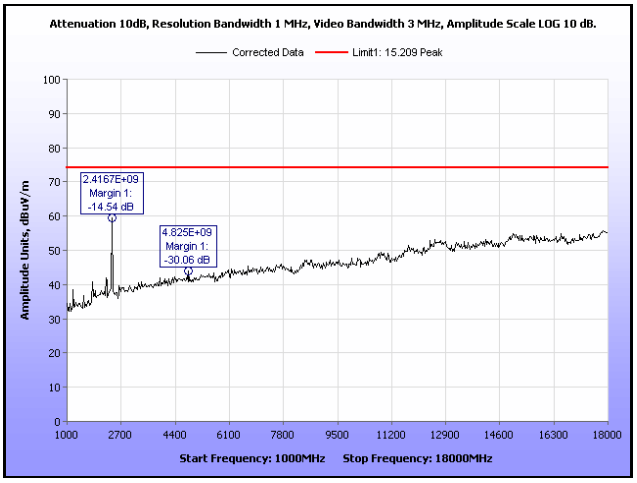
Radiated Spurious Emissions Test Results, 802.11g 10 MHz, Yagi Antenna



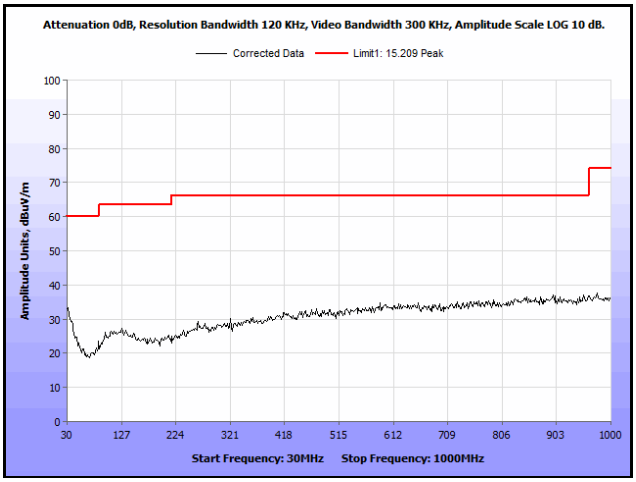
Plot 369. Radiated Spurious Emissions, Low Channel, 802.11g 10 MHz, Yagi Antenna, 30 MHz – 1 GHz



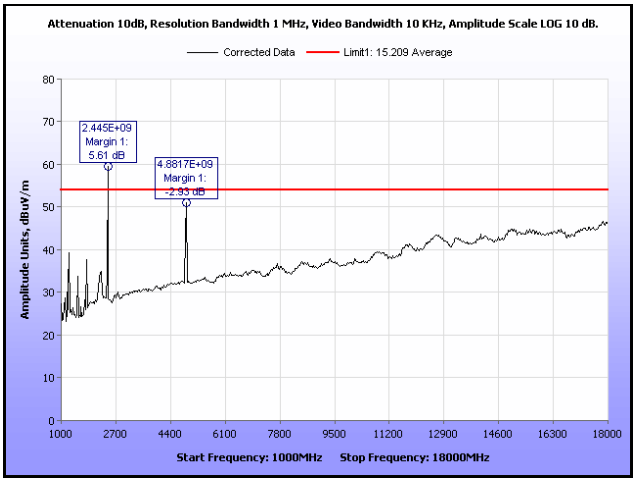
Plot 370. Radiated Spurious Emissions, Low Channel, 802.11g 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average



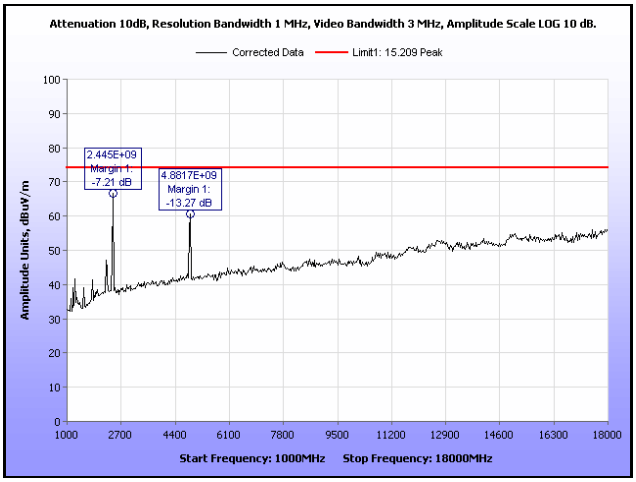
Plot 371. Radiated Spurious Emissions, Low Channel, 802.11g 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak



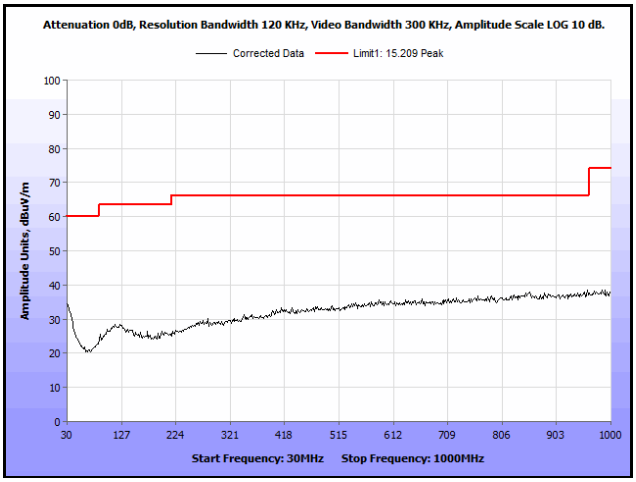
Plot 372. Radiated Spurious Emissions, Mid Channel, 802.11g 10 MHz, Yagi Antenna, 30 MHz – 1 GHz



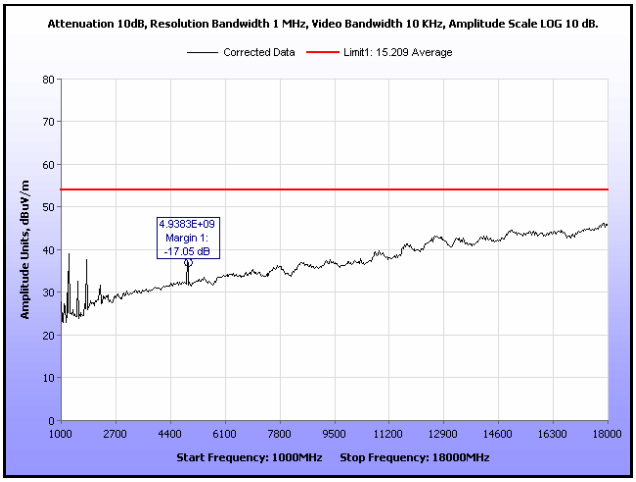
Plot 373. Radiated Spurious Emissions, Mid Channel, 802.11g 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average



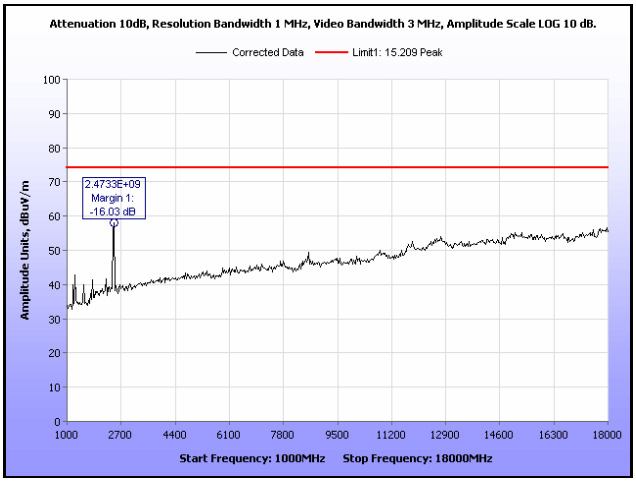
Plot 374. Radiated Spurious Emissions, Mid Channel, 802.11g 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak



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

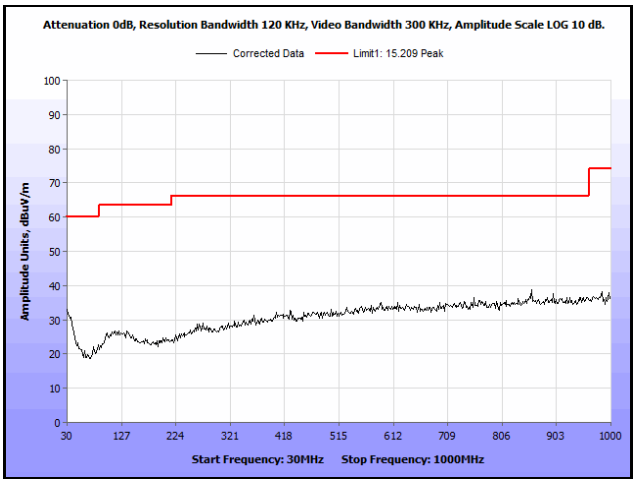


Plot 376. Radiated Spurious Emissions, High Channel, 802.11g 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average

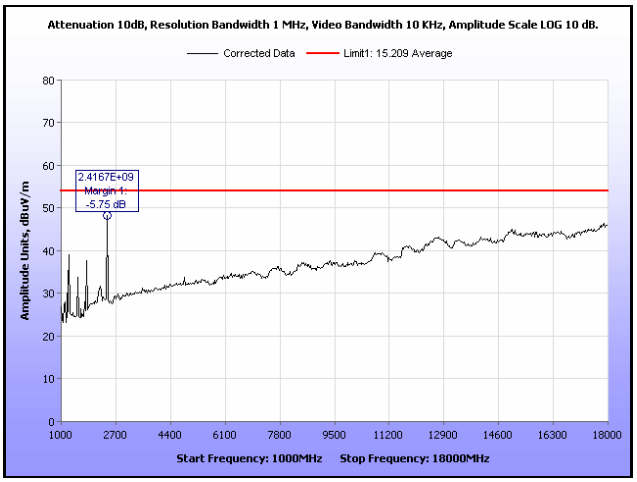


Plot 377. Radiated Spurious Emissions, High Channel, 802.11g 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak

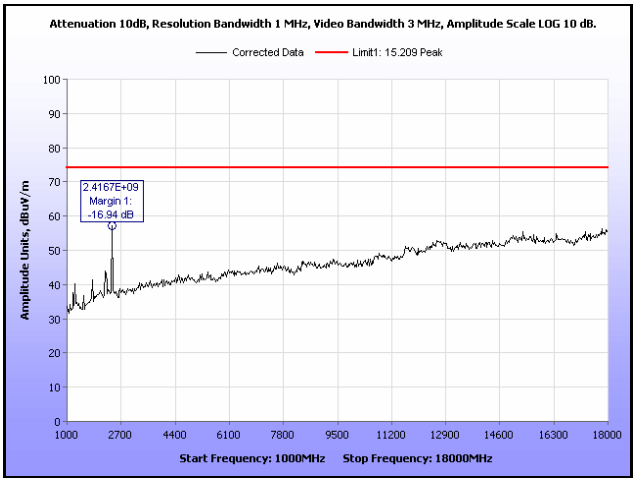
Radiated Spurious Emissions Test Results, 802.11n 10 MHz, Yagi Antenna



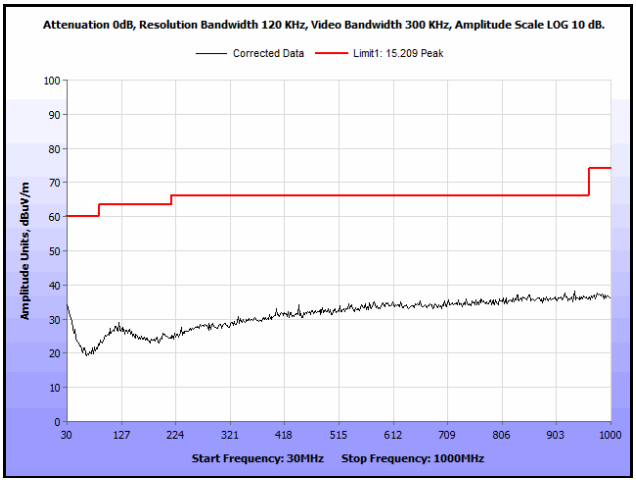
Plot 378. Radiated Spurious Emissions, Low Channel, 802.11n 10 MHz, Yagi Antenna, 30 MHz – 1 GHz



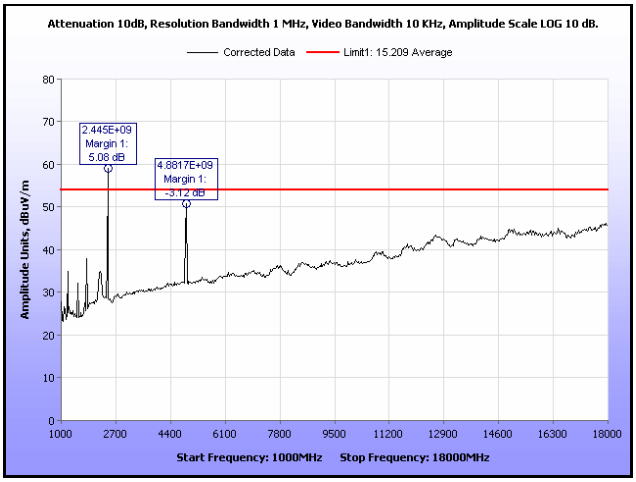
Plot 379. Radiated Spurious Emissions, Low Channel, 802.11n 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average



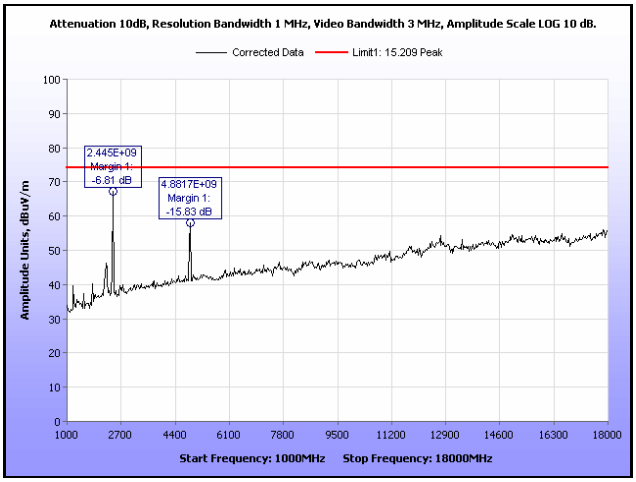
Plot 380. Radiated Spurious Emissions, Low Channel, 802.11n 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak



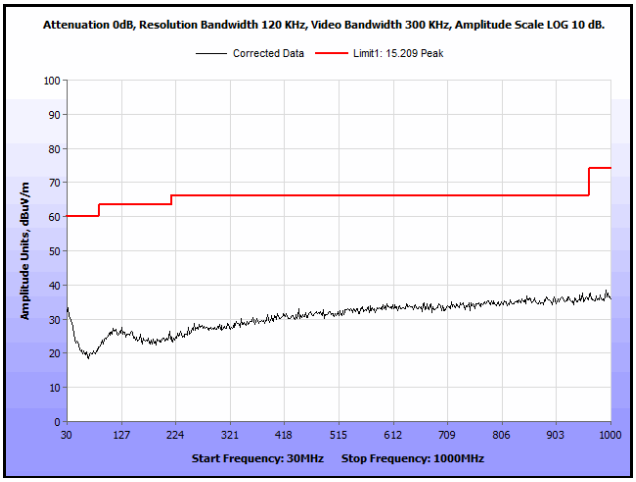
Plot 381. Radiated Spurious Emissions, Mid Channel, 802.11n 10 MHz, Yagi Antenna, 30 MHz – 1 GHz



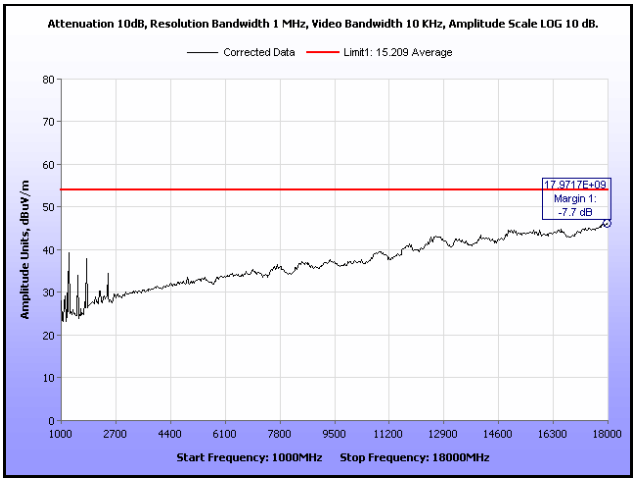
Plot 382. Radiated Spurious Emissions, Mid Channel, 802.11n 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average



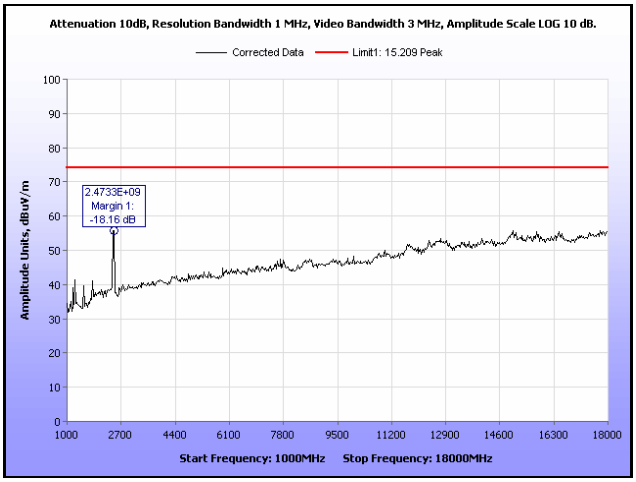
Plot 383. Radiated Spurious Emissions, Mid Channel, 802.11n 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak



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

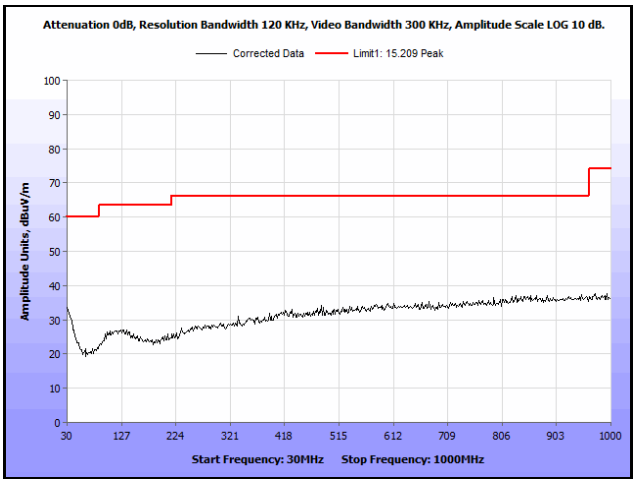


Plot 385. Radiated Spurious Emissions, High Channel, 802.11n 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average

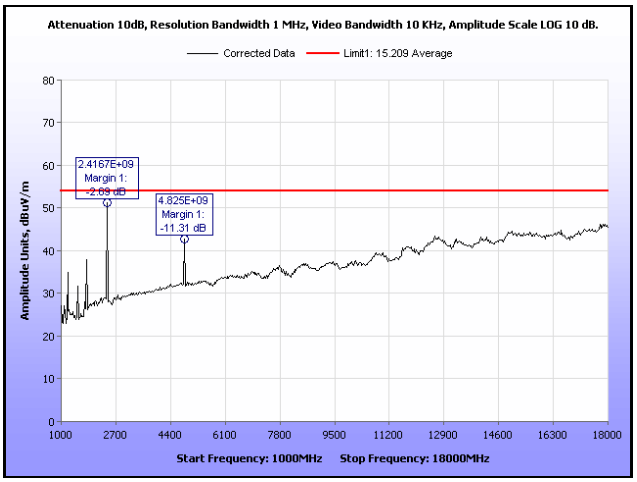


Plot 386. Radiated Spurious Emissions, High Channel, 802.11n 10 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak

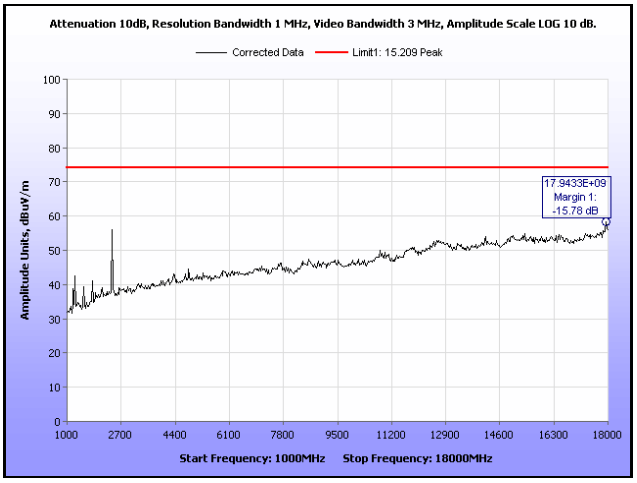
Radiated Spurious Emissions Test Results, 802.11b 20 MHz, Yagi Antenna



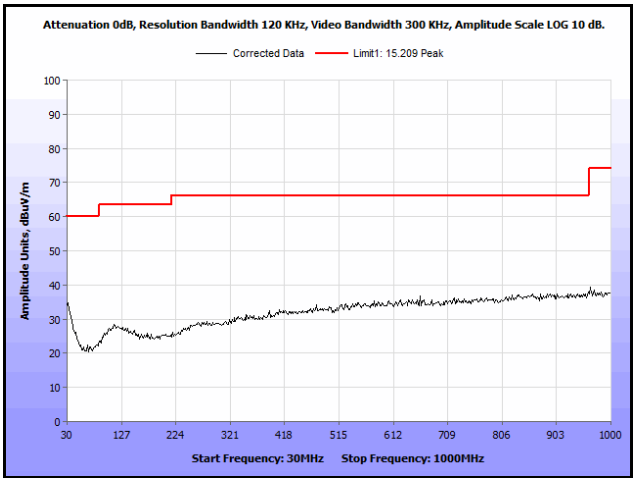
Plot 387. Radiated Spurious Emissions, Low Channel, 802.11b 20 MHz, Yagi Antenna, 30 MHz – 1 GHz



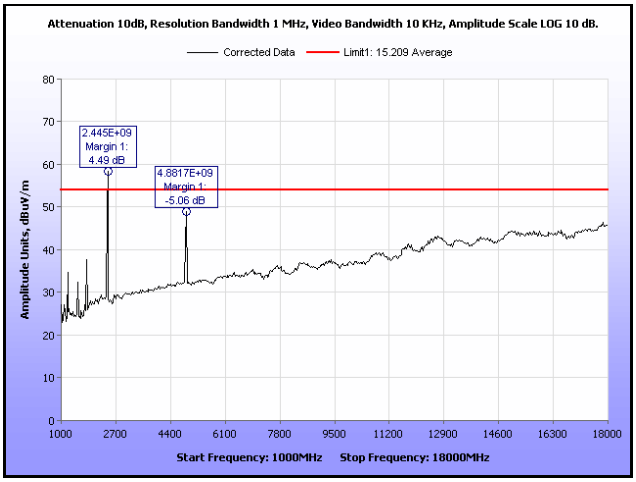
Plot 388. Radiated Spurious Emissions, Low Channel, 802.11b 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average



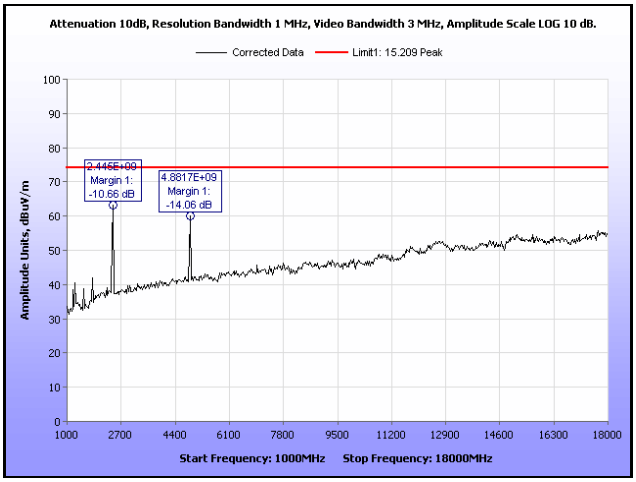
Plot 389. Radiated Spurious Emissions, Low Channel, 802.11b 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak



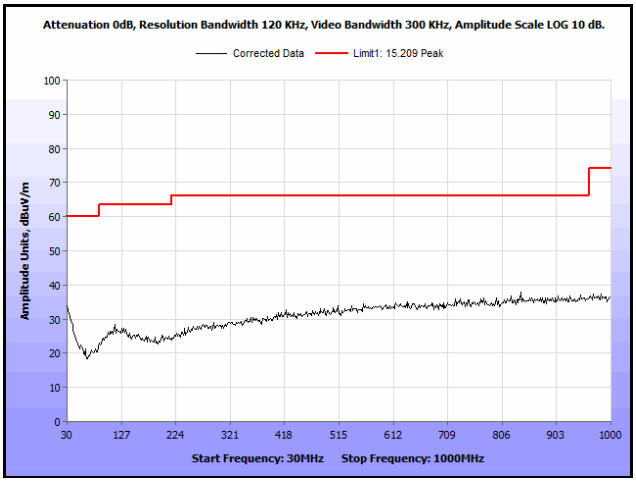
Plot 390. Radiated Spurious Emissions, Mid Channel, 802.11b 20 MHz, Yagi Antenna, 30 MHz – 1 GHz



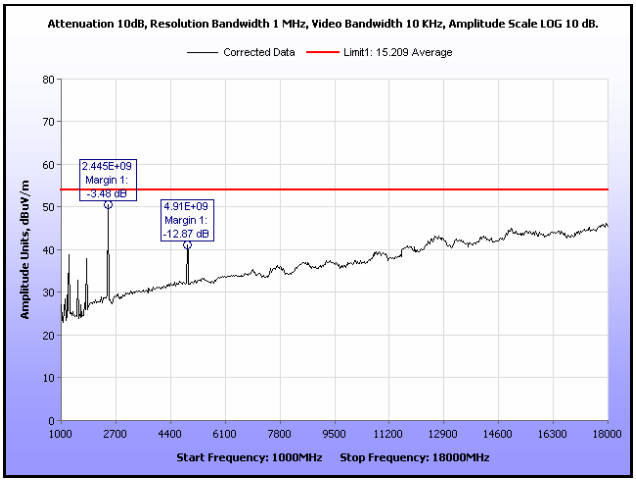
Plot 391. Radiated Spurious Emissions, Mid Channel, 802.11b 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average



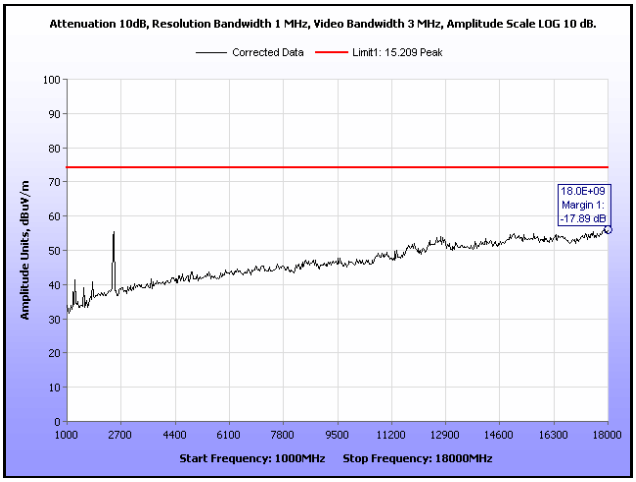
Plot 392. Radiated Spurious Emissions, Mid Channel, 802.11b 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak



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

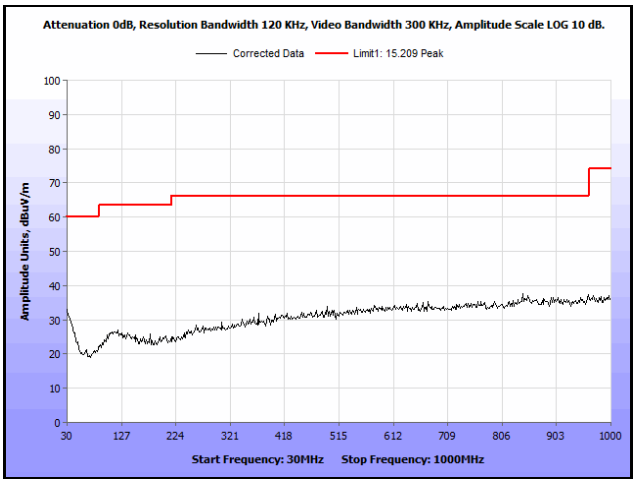


Plot 394. Radiated Spurious Emissions, High Channel, 802.11b 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average

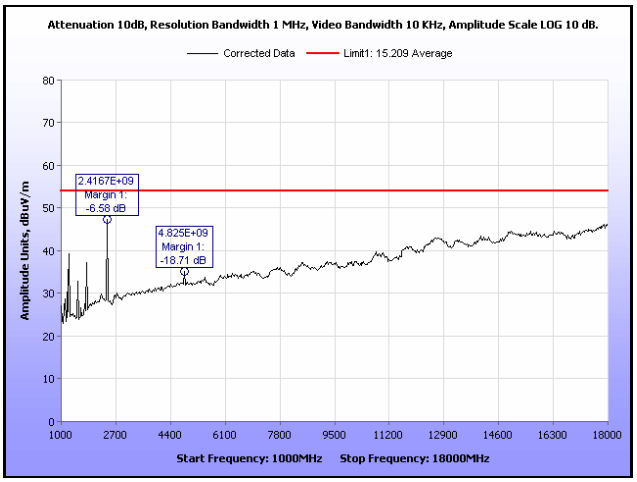


Plot 395. Radiated Spurious Emissions, High Channel, 802.11b 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak

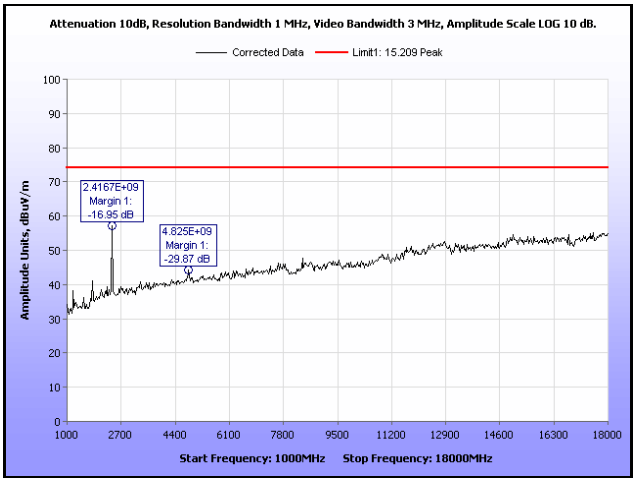
Radiated Spurious Emissions Test Results, 802.11g 20 MHz, Yagi Antenna



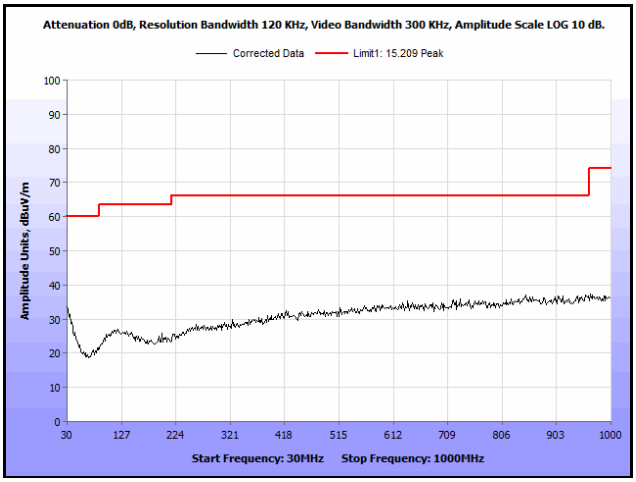
Plot 396. Radiated Spurious Emissions, Low Channel, 802.11g 20 MHz, Yagi Antenna, 30 MHz – 1 GHz



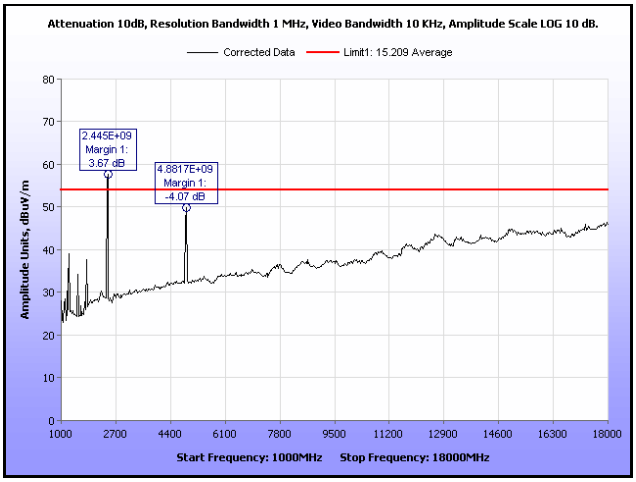
Plot 397. Radiated Spurious Emissions, Low Channel, 802.11g 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average



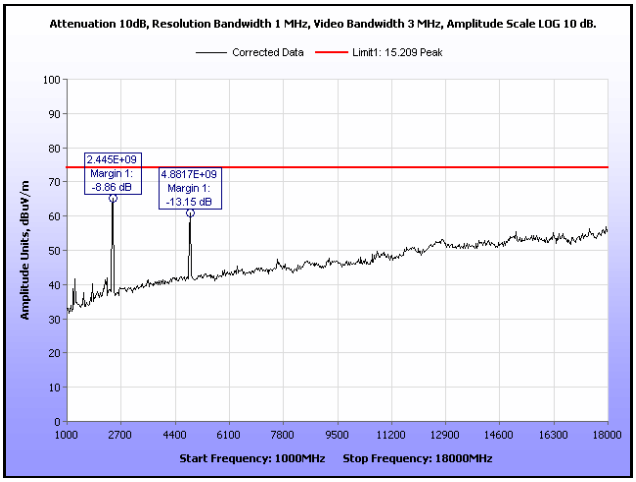
Plot 398. Radiated Spurious Emissions, Low Channel, 802.11g 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak



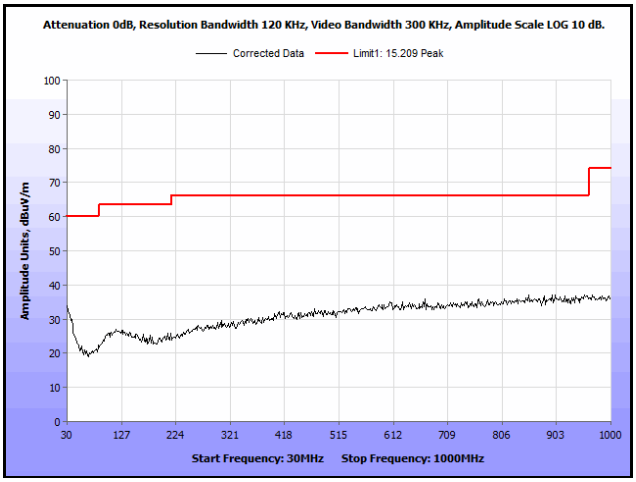
Plot 399. Radiated Spurious Emissions, Mid Channel, 802.11g 20 MHz, Yagi Antenna, 30 MHz – 1 GHz



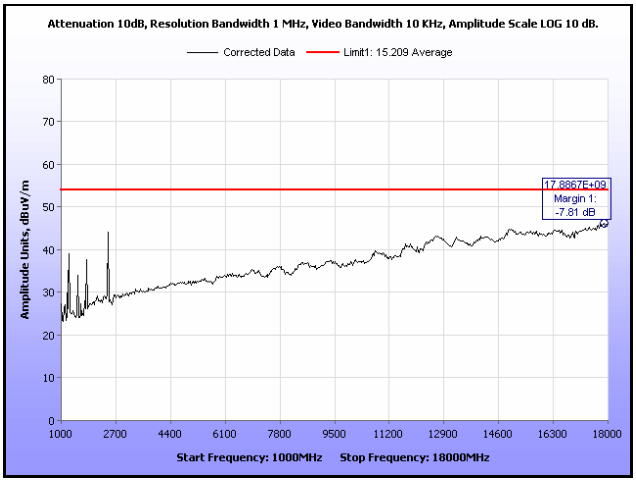
Plot 400. Radiated Spurious Emissions, Mid Channel, 802.11g 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average



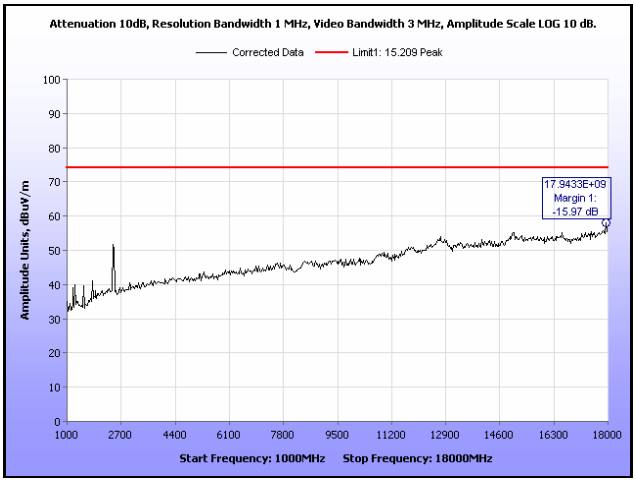
Plot 401. Radiated Spurious Emissions, Mid Channel, 802.11g 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak



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

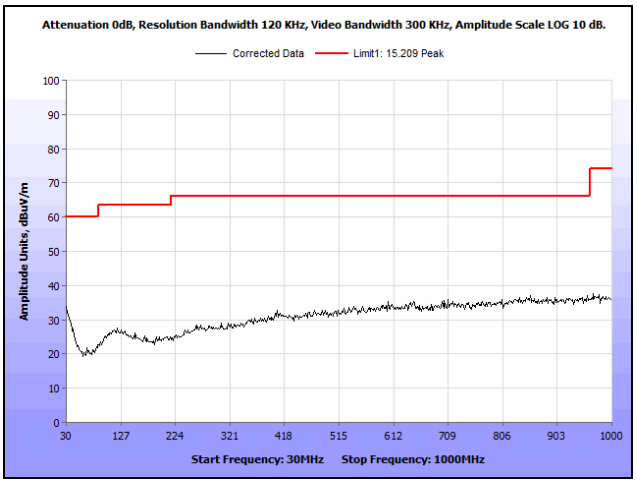


Plot 403. Radiated Spurious Emissions, High Channel, 802.11g 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average

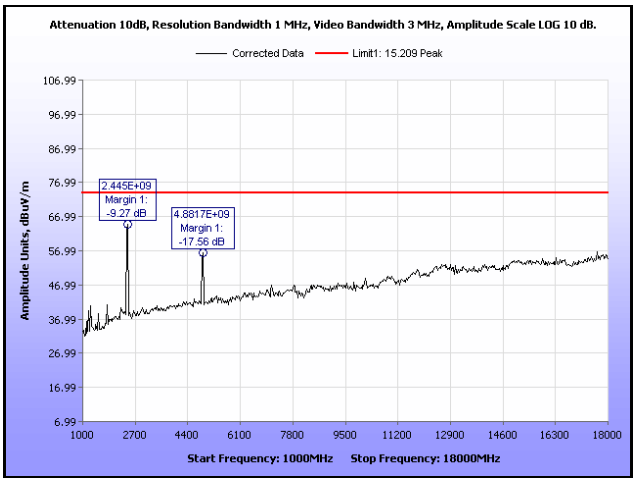


Plot 404. Radiated Spurious Emissions, High Channel, 802.11g 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak

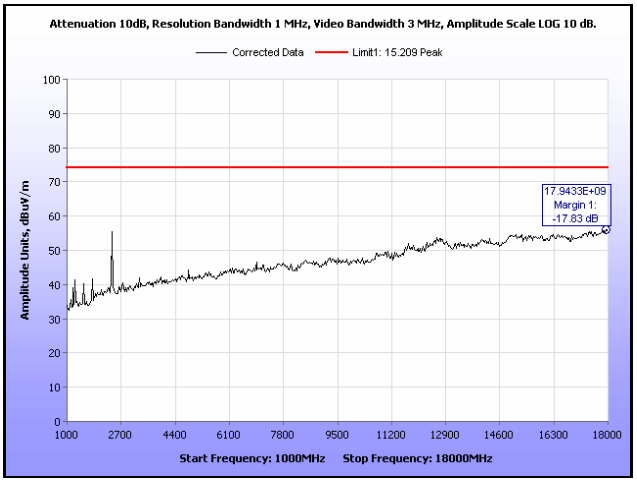
Radiated Spurious Emissions Test Results, 802.11n 20 MHz, Yagi Antenna



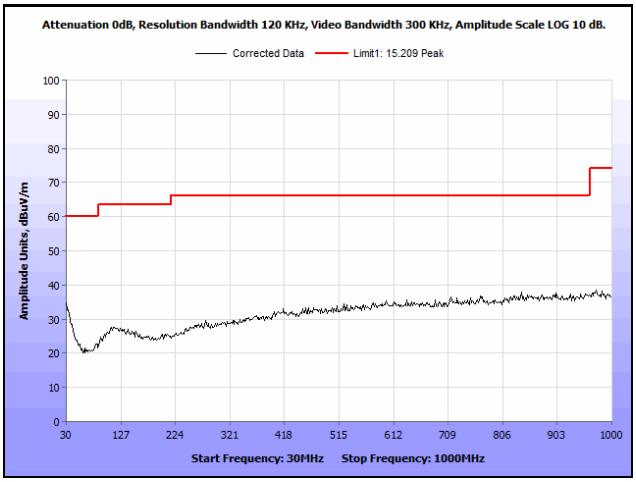
Plot 405. Radiated Spurious Emissions, Low Channel, 802.11n 20 MHz, Yagi Antenna, 30 MHz – 1 GHz



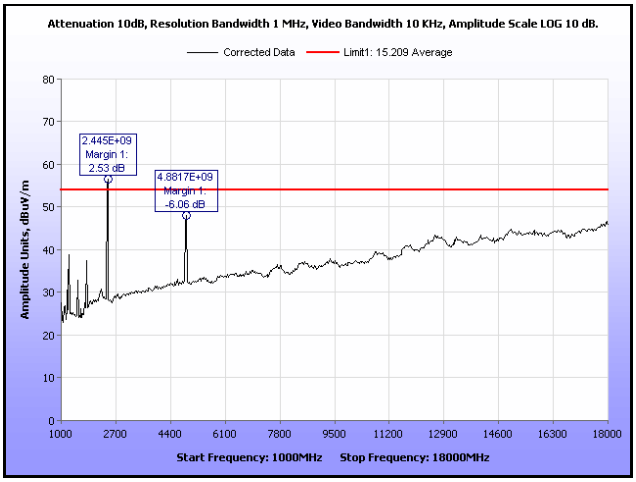
Plot 406. Radiated Spurious Emissions, Low Channel, 802.11n 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average



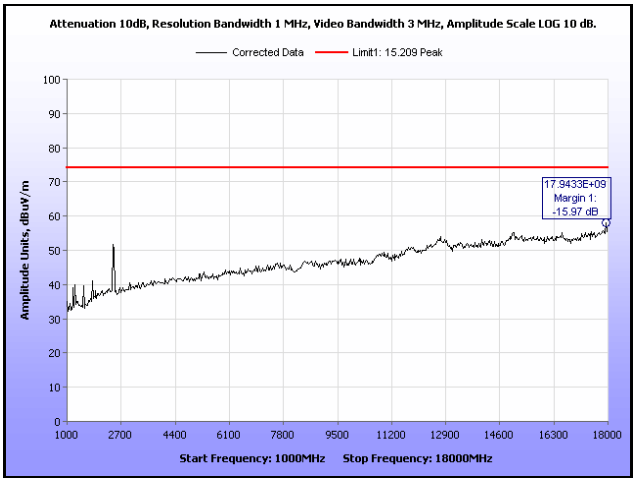
Plot 407. Radiated Spurious Emissions, Low Channel, 802.11n 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak



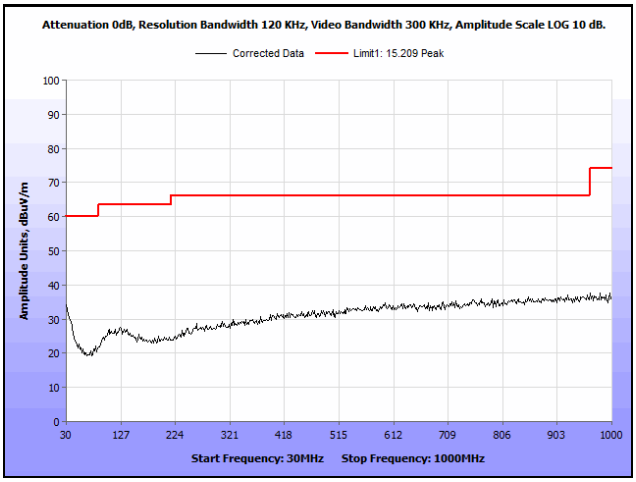
Plot 408. Radiated Spurious Emissions, Mid Channel, 802.11n 20 MHz, Yagi Antenna, 30 MHz – 1 GHz



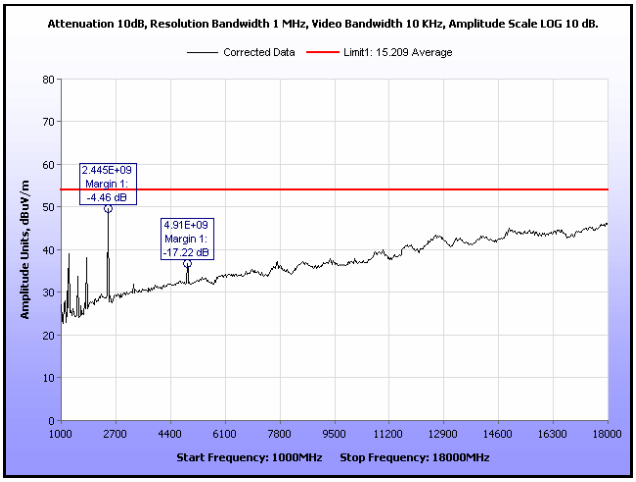
Plot 409. Radiated Spurious Emissions, Mid Channel, 802.11n 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average



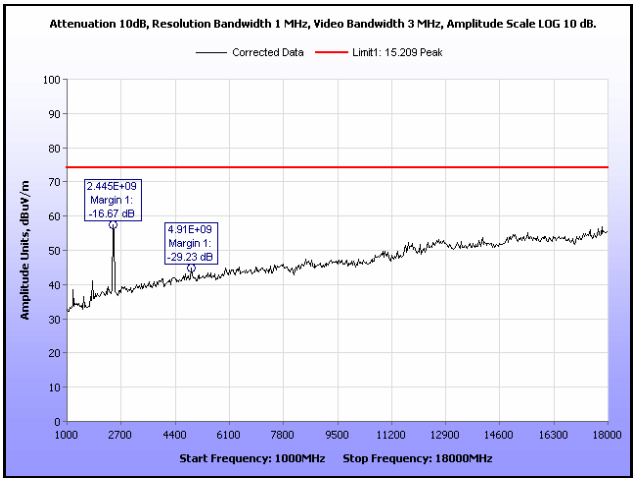
Plot 410. Radiated Spurious Emissions, Mid Channel, 802.11n 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak



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

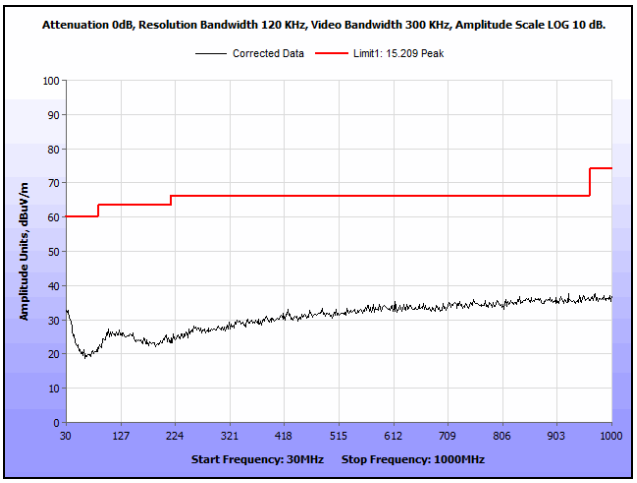


Plot 412. Radiated Spurious Emissions, High Channel, 802.11n 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average

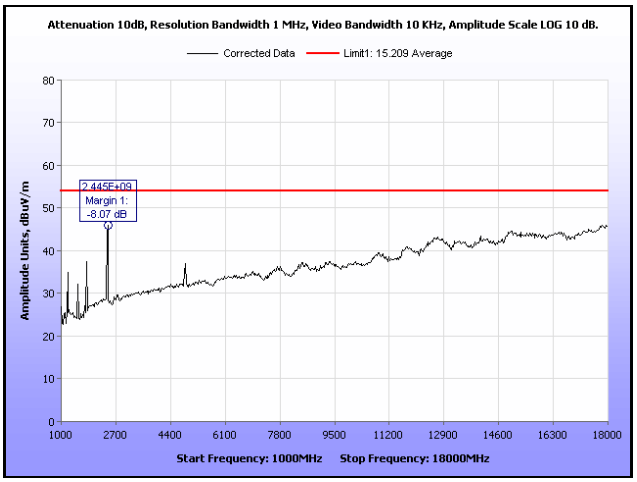


Plot 413. Radiated Spurious Emissions, High Channel, 802.11n 20 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak

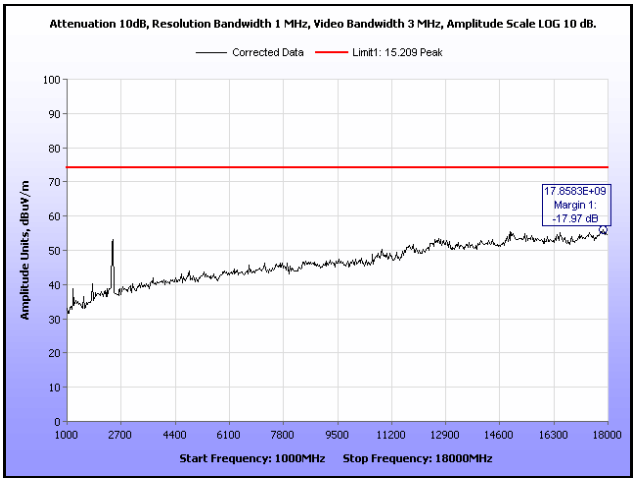
Radiated Spurious Emissions Test Results, 802.11g 40 MHz, Yagi Antenna



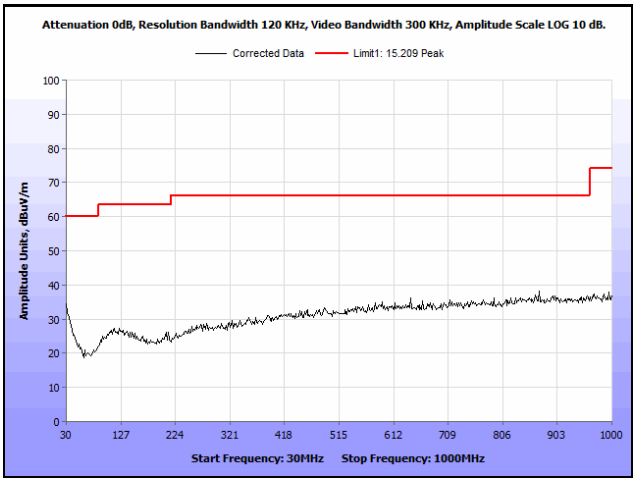
Plot 414. Radiated Spurious Emissions, Low Channel, 802.11g 40 MHz, Yagi Antenna, 30 MHz – 1 GHz



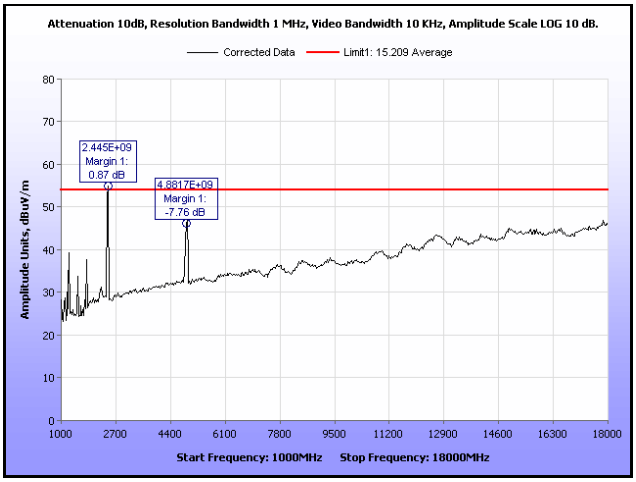
Plot 415. Radiated Spurious Emissions, Low Channel, 802.11g 40 MHz, Yagi Antenna, 1 GHz – 18 GHz, Average



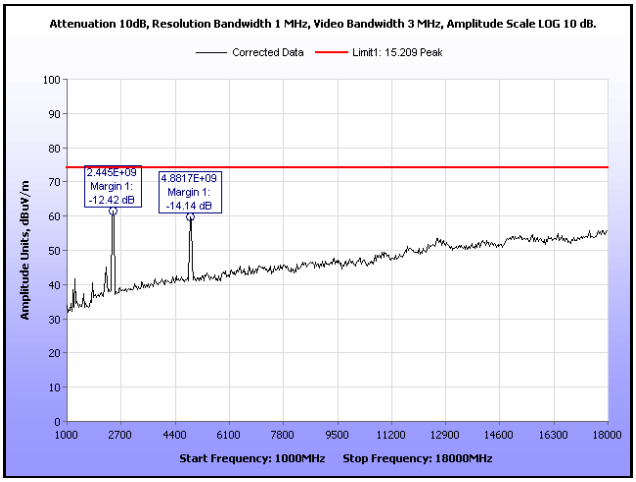
Plot 416. Radiated Spurious Emissions, Low Channel, 802.11g 40 MHz, Yagi Antenna, 1 GHz – 18 GHz, Peak



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

