Masimo Corporation

RAD7CA

Report #: MASI0095

Report Prepared By Northwest EMC Inc.

NORTHWEST EMC – (888) 364-2378 – www.nwemc.com

California – Minnesota – Oregon – New York – Washington

22975 NW Evergreen Parkway
Suite 400
Hillsboro, Oregon 97124

Certificate of Test

Last Date of Test: April 27, 2012
Masimo Corporation
Model: RAD7CA

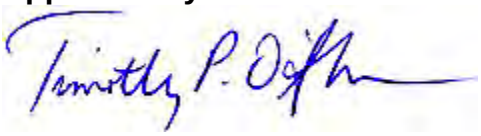
Emissions

Test Description	Specification	Test Method	Pass/Fail
Occupied Bandwidth	FCC 15.247:2012	ANSI C63.10:2009	**Pass**
Output Power	FCC 15.247:2012	ANSI C63.10:2009	**Pass**
Band Edge Compliance	FCC 15.247:2012	ANSI C63.10:2009	**Pass**
Spurious Conducted Emissions	FCC 15.247:2012	ANSI C63.10:2009	**Pass**
Power Spectral Density	FCC 15.247:2012	ANSI C63.10:2009	**Pass**
Spurious Radiated Emissions	FCC 15.247:2012	ANSI C63.10:2009	**Pass**
AC Powerline Conducted Emissions	FCC 15.207:2012	ANSI C63.10:2009	**Pass**

Deviations From Test Standards

None

Approved By:



Tim O'Shea, Operations Manager

NVLAP Lab Code: 200676-0

Test Facility

The measurement facility used to collect the data is located at:

Northwest EMC, Inc.
41 Tesla Ave.
Irvine, CA 92618

Phone: (503) 844-4066 Fax: 844-3826

This site has been fully described in a report filed with and accepted by the FCC (Federal Communications Commission) and Industry Canada (Site filing #2834B-1).

Revision History

Revision Number	Description	Date	Page Number
00	None		

Accreditations and Authorizations

Revision
02/21/2012

United States

FCC - Designated by the FCC as a Telecommunications Certification Body (TCB). Certification chambers, Open Area Test Sites, and conducted measurement facilities are listed with the FCC.

A2LA - Accredited by A2LA to ISO / IEC Guide 65 as a product certifier. This allows Northwest EMC to certify transmitters to FCC and IC specifications.

NVLAP - Each laboratory is accredited by NVLAP to ISO 17025. The scope includes radio, ITE, and medical standards from around the world. See: http://www.nwemc.com/accreditations/

Canada

IC - Recognized by Industry Canada as a Certification Body (CB). Certification chambers and Open Area Test Sites are filed with IC.

European Union

European Commission – Validated by the European Commission as a Conformity Assessment Body (CAB) under the EMC directive and as a Notified Body under the R&TTE Directive.

Australia/New Zealand

ACMA - Recognized by ACMA as a CAB for the acceptance of test data.

Korea

KCC / RRA - Recognized by KCC's RRA as a CAB for the acceptance of test data.

Japan

VCCI - Associate Member of the VCCI. Conducted and radiated measurement facilities are registered.

Taiwan

BSMI – Recognized by BSMI as a CAB for the acceptance of test data.

NCC - Recognized by NCC as a CAB for the acceptance of test data.

Singapore

IDA – Recognized by IDA as a CAB for the acceptance of test data.

Hong Kong

OFTA – Recognized by OFTA as a CAB for the acceptance of test data.

Vietnam

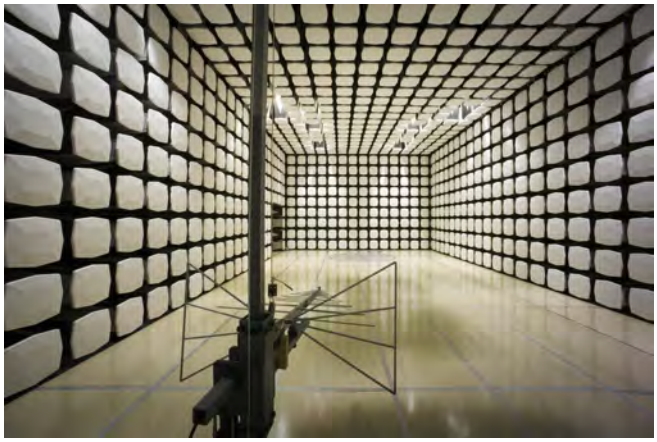
MIC – Recognized by MIC as a CAB for the acceptance of test data.

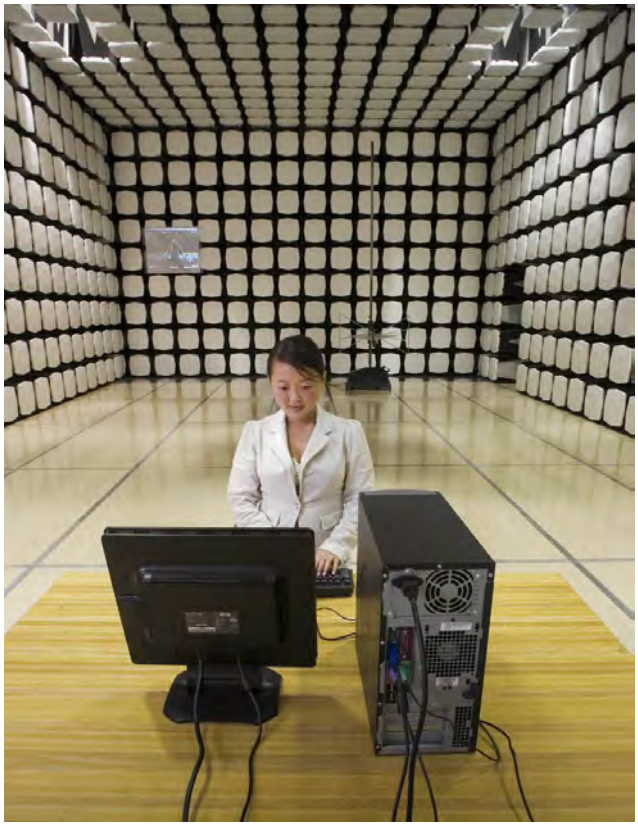
Russia

GOST – Accredited by Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC to perform EMC and Hygienic testing for Information Technology products to GOST standards**.**

Locations

Oregon	California	New York	Minnesota	Washington
Labs EV01-EV12 22975 NW Evergreen Pkwy, #400 Hillsboro, OR 97124 (503) 844-4066	Labs OC01-OC13 41 Tesla Irvine, CA 92618 (949) 861-8918	Labs WA01-WA04 4939 Jordan Rd. Elbridge, NY 13060 (315) 685-0796	Labs MN01-MN08 9349 W Broadway Ave. Brooklyn Park, MN 55445 (763) 425-2281	Labs SU01-SU07 14128 339th Ave. SE Sultan, WA 98294 (360) 793-8675
VCCI				
C-1071, R-1025, G-84, C-2687, T-1658, R-2318	R-1943, G-85, C-2766, T-1659, G-548		R-3125, G-86, G-141, C-3464, T-1634	R-871, G-83, C-3265, T-1511
Industry Canada				
2834D-1, 2834D-*2*	2834B-1, 2834B-2, 2834B-3		2834E-1	2834C-1





Product Description

Client and Equipment Under Test (EUT) Information

Company Name:	Masimo Corporation
Address:	40 Parker
City, State, Zip:	Irvine, CA 92618
Test Requested By:	Michael Clark
Model:	RAD7CA
First Date of Test:	April 18, 2012
Last Date of Test:	April 27, 2012
Receipt Date of Samples:	April 18, 2012
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):
802.11a/b/g radio

Testing Objective:
To demonstrate compliance under FCC 15.247 for operation in the 2.4 and 5.8 GHz bands

Configurations

Configuration 1 MASI0095

Software/Firmware Running during test	
Description	**Version**
Tera Term	4.73
(Linux) base	E 0.0.1.6

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Pulse Co-Oximeter	Masimo Corporation	RAD7CA	34996 Rev C

Peripherals in test setup boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Remote Laptop	Hewlett Packard	Compaq 6515b	CNU7300W4L

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
AC Cable	No	1.8m	No	RAD7CA	AC Mains
USB Cable	No	1.0m	No	RAD7CA	Remote Laptop
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Configuration 2 MASI0095

Software/Firmware Running during test	
Description	**Version**
Tera Term	4.73
(Linux) base	E 0.0.1.6

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Pulse Co-Oximeter	Masimo Corporation	RAD7CA	34996 Rev C

Peripherals in test setup boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Remote Laptop	Hewlett Packard	Compaq 6515b	CNU7300W4L
Rainbow Patient Sensor	Masimo Corporation	DCI - dc12	9J042

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
AC Cable	No	1.8m	No	RAD7CA	AC Mains
USB Cable	No	1.0m	No	RAD7CA	Remote Laptop
Rainbow Patient Sensor Cable	No	3.5m	No	RAD7CA	Unterminated
RS-232 Cable	No	1.8m	Yes	RAD7CA	Unterminated
DB-15 Cable	No	1.5m	Yes	RAD7CA	Unterminated
SatShare Cable	No	1.0m	Yes	RAD7CA	Unterminated
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Configurations

Configuration 3 MASI0095

Software/Firmware Running during test	
Description	**Version**
Tera Term	4.73
(Linux) base	E 0.0.1.6

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Pulse Co-Oximeter	Masimo Corporation	RAD7CA	34996 Rev C

Peripherals in test setup boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Remote Laptop	Hewlett Packard	Compaq 6515b	CNU7300W4L
Rainbow Patient Sensor	Masimo Corporation	DCI - dc12	9J042

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
AC Cable	No	1.8m	No	RAD7CA	AC Mains
USB Cable	No	1.0m	No	RAD7CA	Remote Laptop
Rainbow Patient Sensor Cable	No	3.5m	No	RAD7CA	Unterminated
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Modifications

Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	4/18/2012	Occupied Bandwidth	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
2	4/18/2012	Spurious Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
3	4/18/2012	Band Edge Compliance	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
4	4/19/2012	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
5	4/19/2012	AC Powerline Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
6	4/27/2012	Output Power	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
7	4/27/2012	Power Spectral Density	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

Occupied Bandwidth

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4446A	AAY	1/9/2012	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	10/12/2011	12
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	6/2/2011	12
Signal Generator	Agilent	E8257D	TGU	2/1/2012	12

MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

The occupied bandwidth was measured with the EUT set to low, medium, and high transmit frequencies in the ISM band. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the required data rates available in 802.11(a)/(b)/(g).

Occupied Bandwidth

EUT:	RAD7CA			**Work Order:**	MASI0095
Serial Number:	34996 Rev C			**Date:**	04/18/12
Customer:	Masimo Corporation			**Temperature:**	22.84 C°C
Attendees:	None			**Humidity:**	38%
Project:	None			**Barometric Pres.:**	1014.4
Tested by:	Jaemi Suh	**Power:**	120VAC/50Hz	**Job Site:**	OC10

TEST SPECIFICATIONS	Test Method
FCC 15.247:2012	ANSI C63.10:2009

COMMENTS

Power Setting: 99. Antenna Port 2.

DEVIATIONS FROM TEST STANDARD

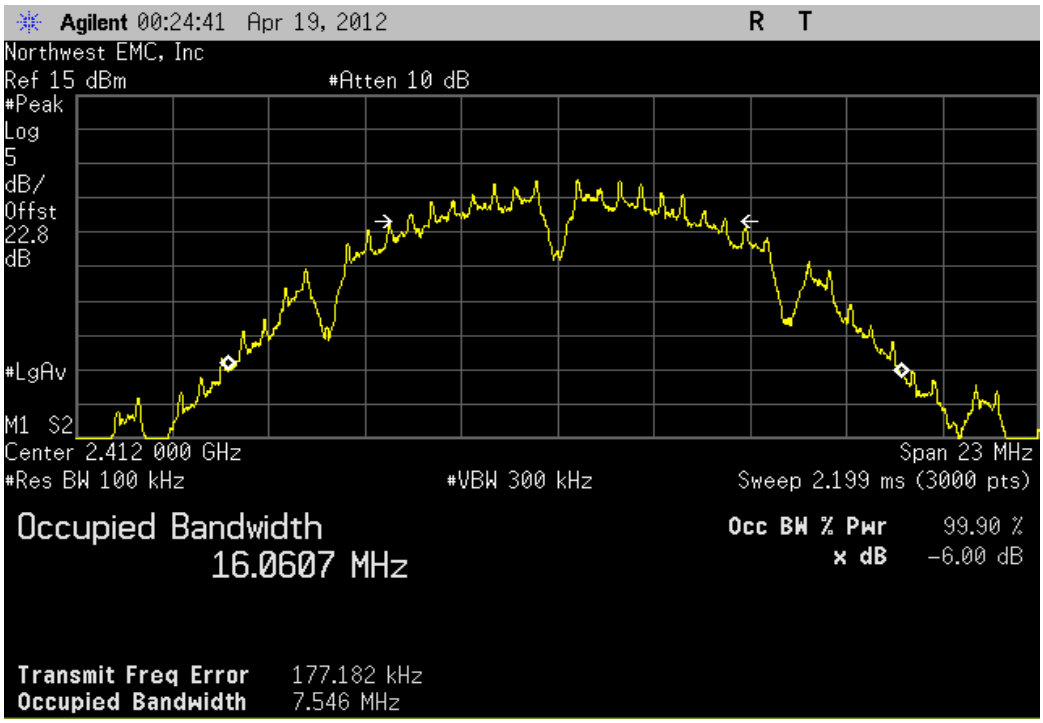
No Deviations

Configuration #	1	Signature

		Value	Limit	Result
2400 MHz - 2483.5 MHz Band				
	802.11(b) 1 Mbps			
	Low Channel 1, 2412 MHz	7.546 MHz	> 500 kHz	Pass
	Mid Channel 6, 2437 MHz	7.478 MHz	> 500 kHz	Pass
	High Channel 11, 2462 MHz	7.121 MHz	> 500 kHz	Pass
	802.11(b) 11 Mbps			
	Low Channel 1, 2412 MHz	7.517 MHz	> 500 kHz	Pass
	Mid Channel 6, 2437 MHz	7.398 MHz	> 500 kHz	Pass
	High Channel 11, 2462 MHz	7.019 MHz	> 500 kHz	Pass
	802.11(g) 6 Mbps			
	Low Channel 1, 2412 MHz	13.926 MHz	> 500 kHz	Pass
	Mid Channel 6, 2437 MHz	15.307 MHz	> 500 kHz	Pass
	High Channel 11, 2462 MHz	14.879 MHz	> 500 kHz	Pass
	802.11(g) 36 Mbps			
	Low Channel 1, 2412 MHz	15.014 MHz	> 500 kHz	Pass
	Mid Channel 6, 2437 MHz	15.004 MHz	> 500 kHz	Pass
	High Channel 11, 2462 MHz	15.077 MHz	> 500 kHz	Pass
	802.11(g) 54 Mbps			
	Low Channel 1, 2412 MHz	15.105 MHz	> 500 kHz	Pass
	Mid Channel 6, 2437 MHz	14.806 MHz	> 500 kHz	Pass
	High Channel 11, 2462 MHz	15.382 MHz	> 500 kHz	Pass
5725 MHz - 5850 MHz Band				
	802.11(a) 6 Mbps			
	Low Channel 149, 5745 MHz	13.974 MHz	> 500 kHz	Pass
	Mid Channel 157, 5785 MHz	14.933 MHz	> 500 kHz	Pass
	High Channel 165, 5825 MHz	14.64 MHz	> 500 kHz	Pass
	802.11(a) 36 Mbps			
	Low Channel 149, 5745 MHz	15.112 MHz	> 500 kHz	Pass
	Mid Channel 157, 5785 MHz	14.918 MHz	> 500 kHz	Pass
	High Channel 165, 5825 MHz	14.963 MHz	> 500 kHz	Pass
	802.11(a) 54 Mbps			
	Low Channel 149, 5745 MHz	13.311 MHz	> 500 kHz	Pass
	Mid Channel 157, 5785 MHz	13.402 MHz	> 500 kHz	Pass
	High Channel 165, 5825 MHz	14.959 MHz	> 500 kHz	Pass

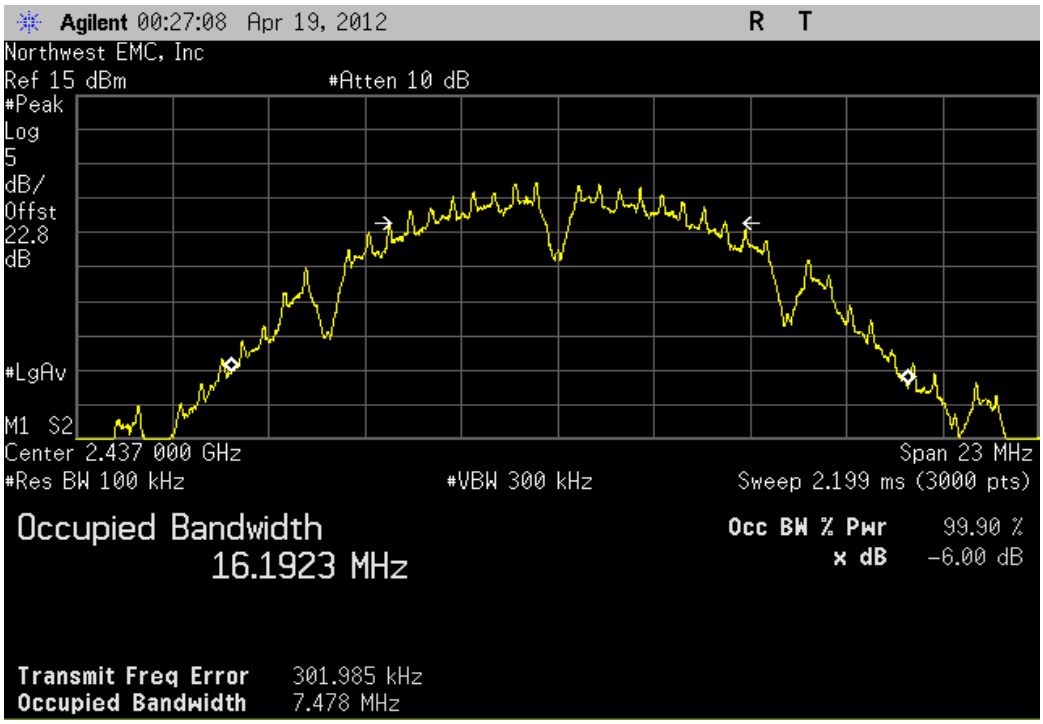
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				7.546 MHz	> 500 kHz	Pass



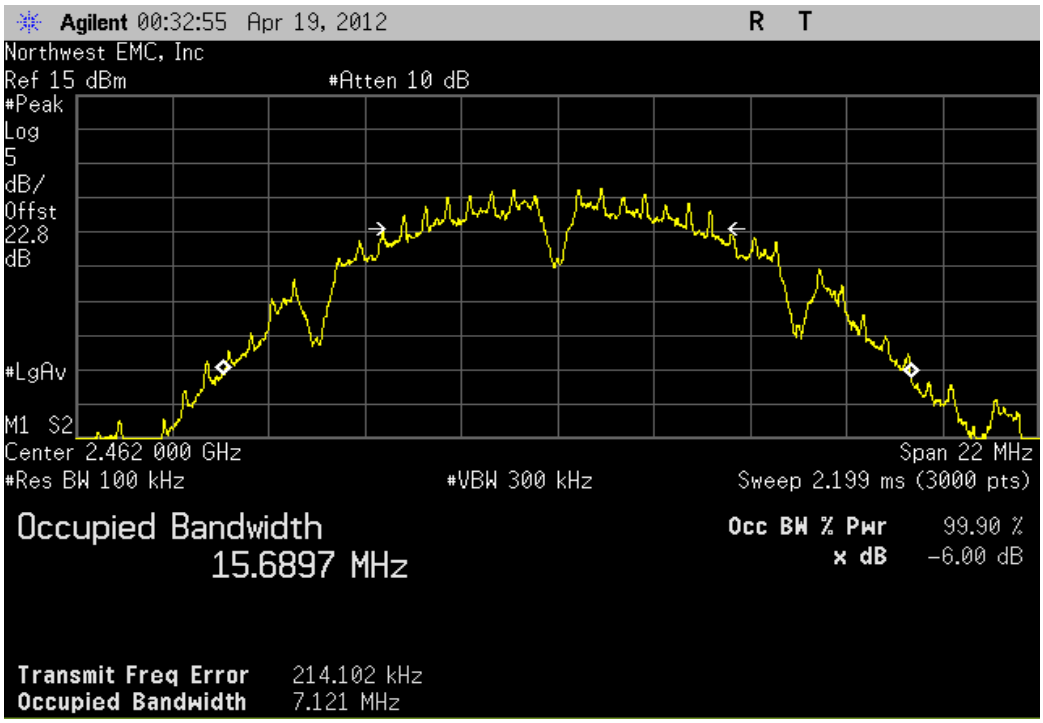
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz

				Value	Limit	Result
				7.478 MHz	> 500 kHz	Pass



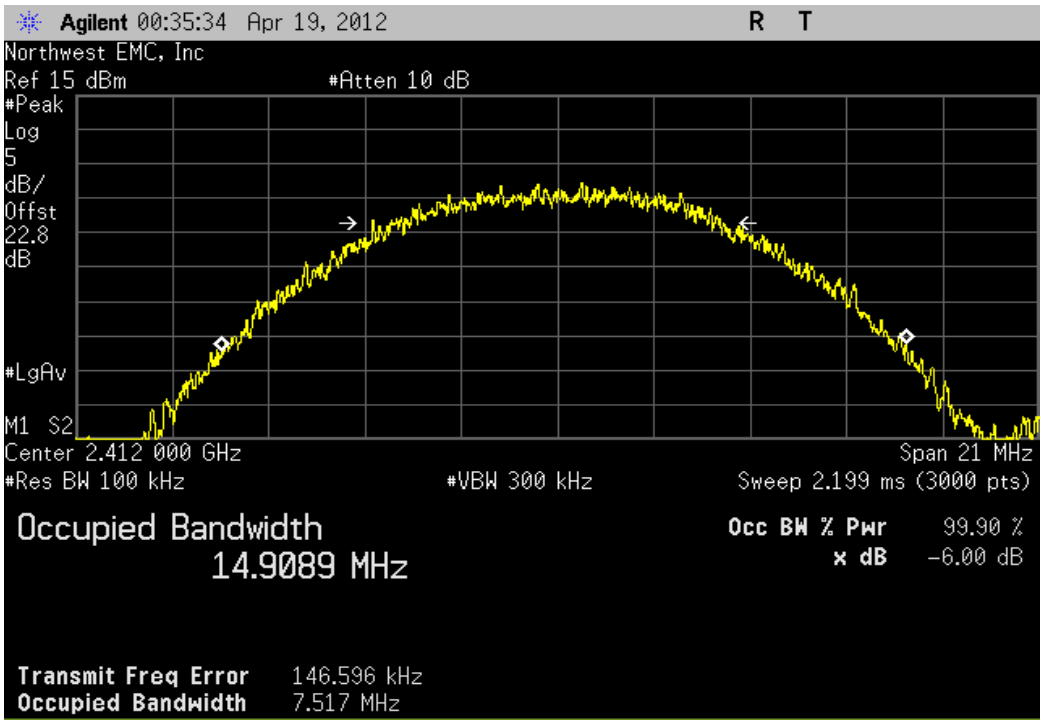
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				7.121 MHz	> 500 kHz	Pass



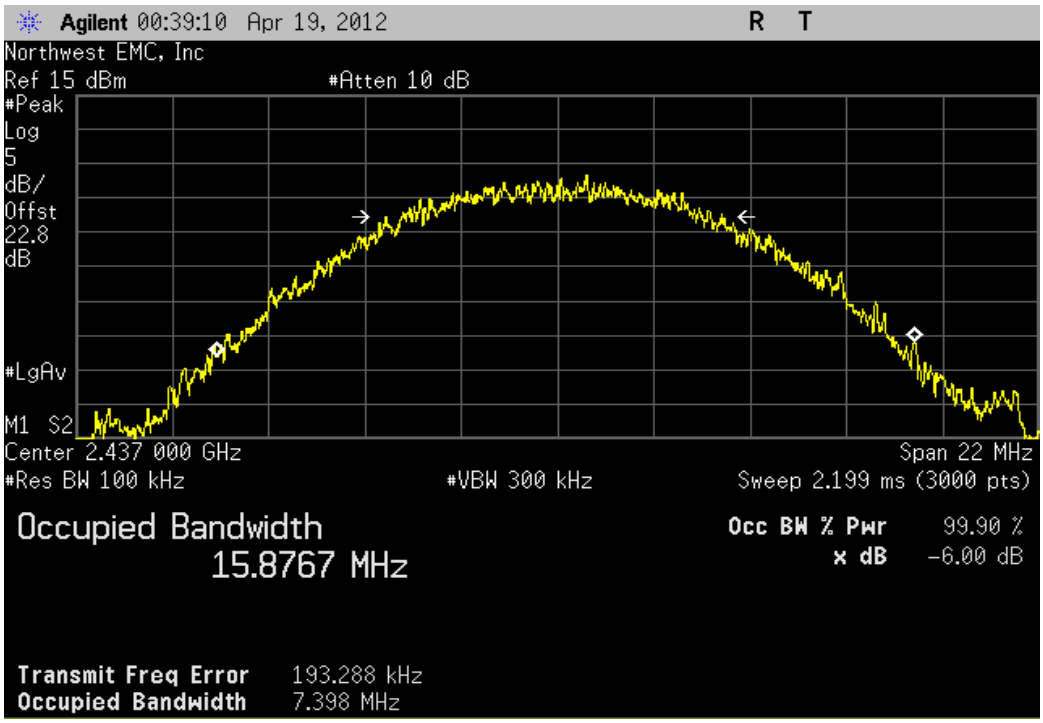
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				7.517 MHz	> 500 kHz	Pass



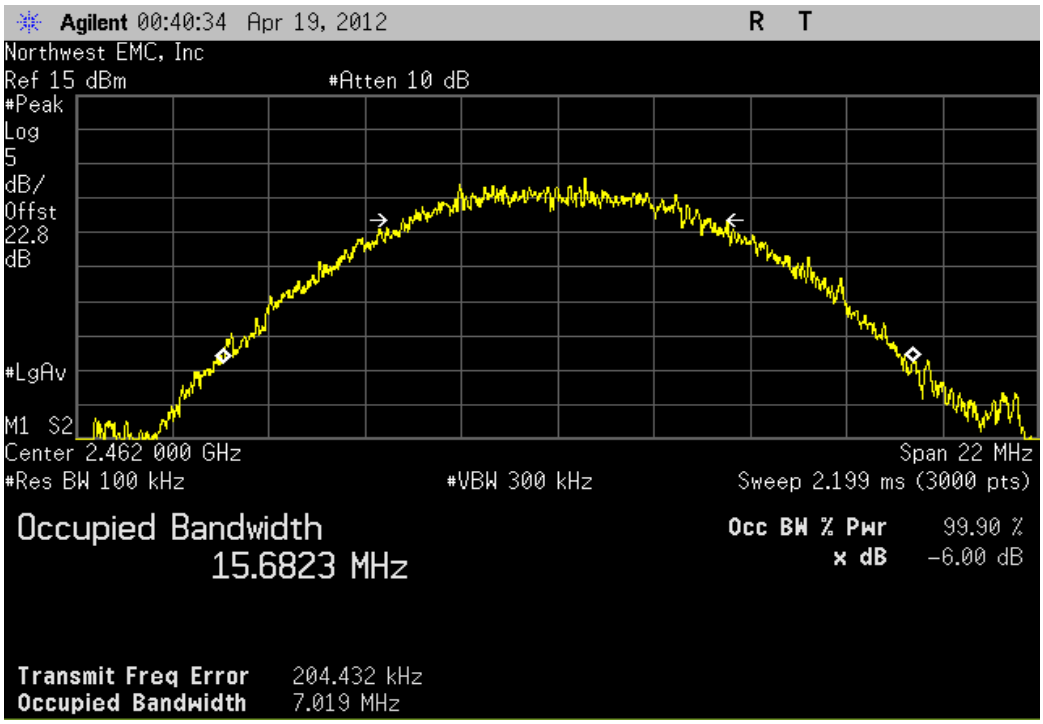
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz

				Value	Limit	Result
				7.398 MHz	> 500 kHz	Pass



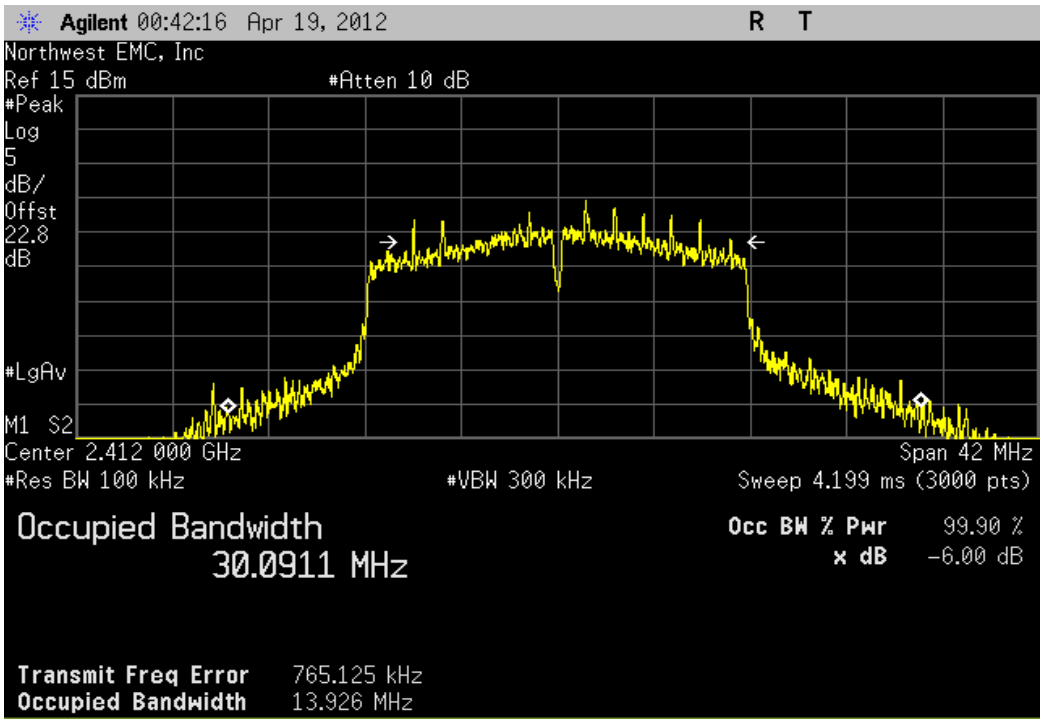
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				7.019 MHz	> 500 kHz	Pass



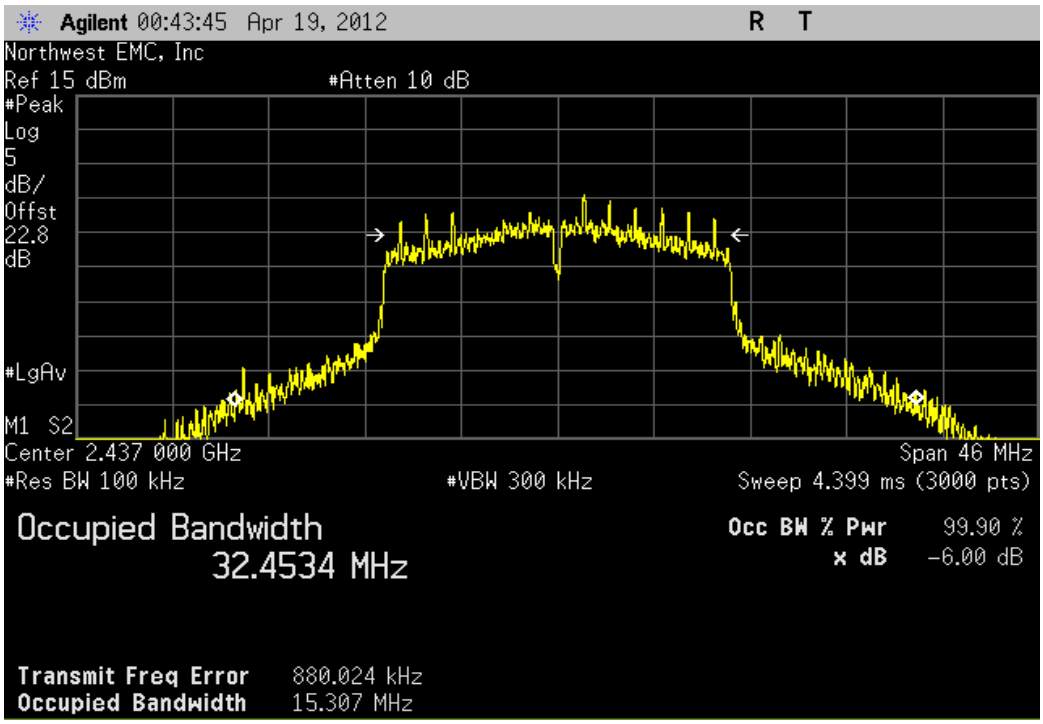
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				13.926 MHz	> 500 kHz	Pass



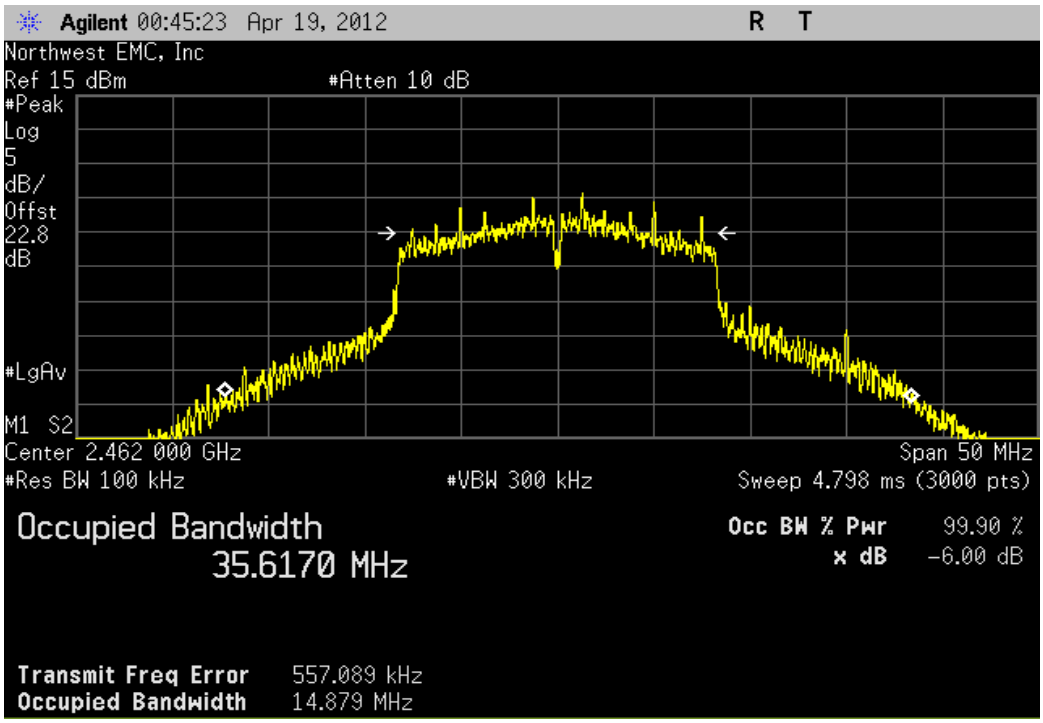
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz

				Value	Limit	Result
				15.307 MHz	> 500 kHz	Pass



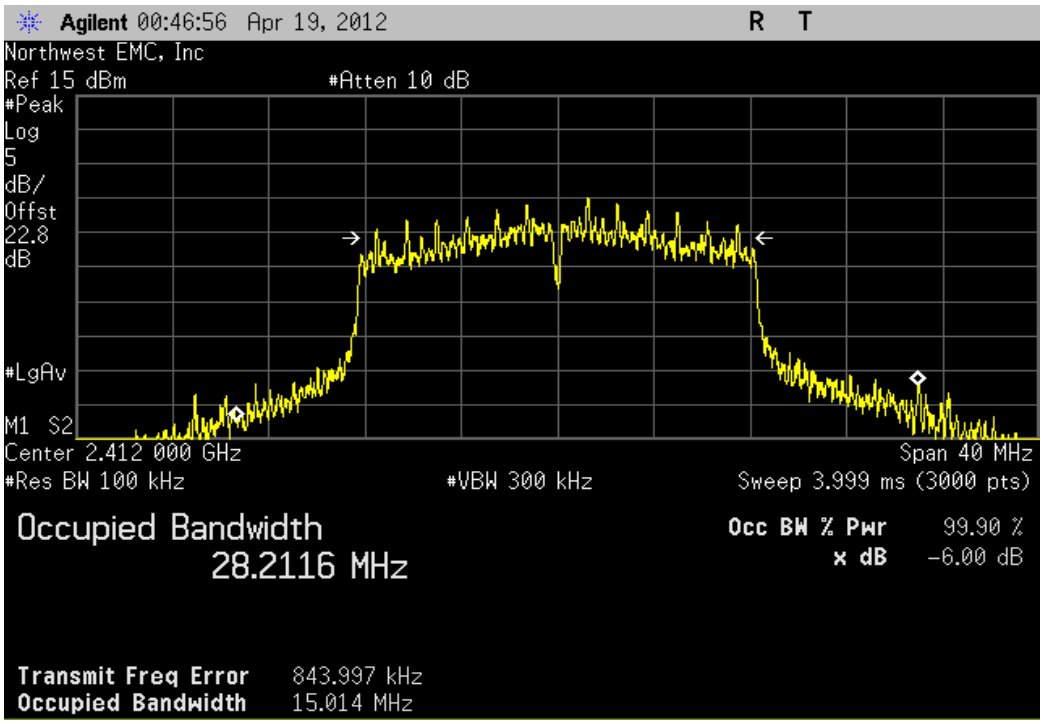
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				14.879 MHz	> 500 kHz	Pass



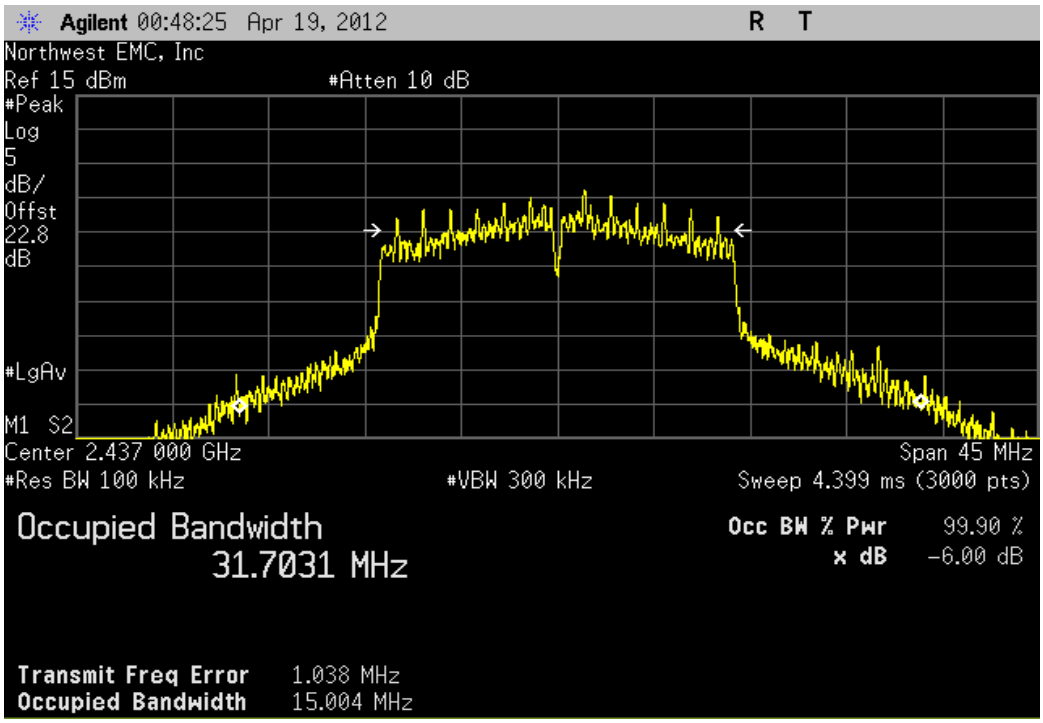
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				15.014 MHz	> 500 kHz	Pass



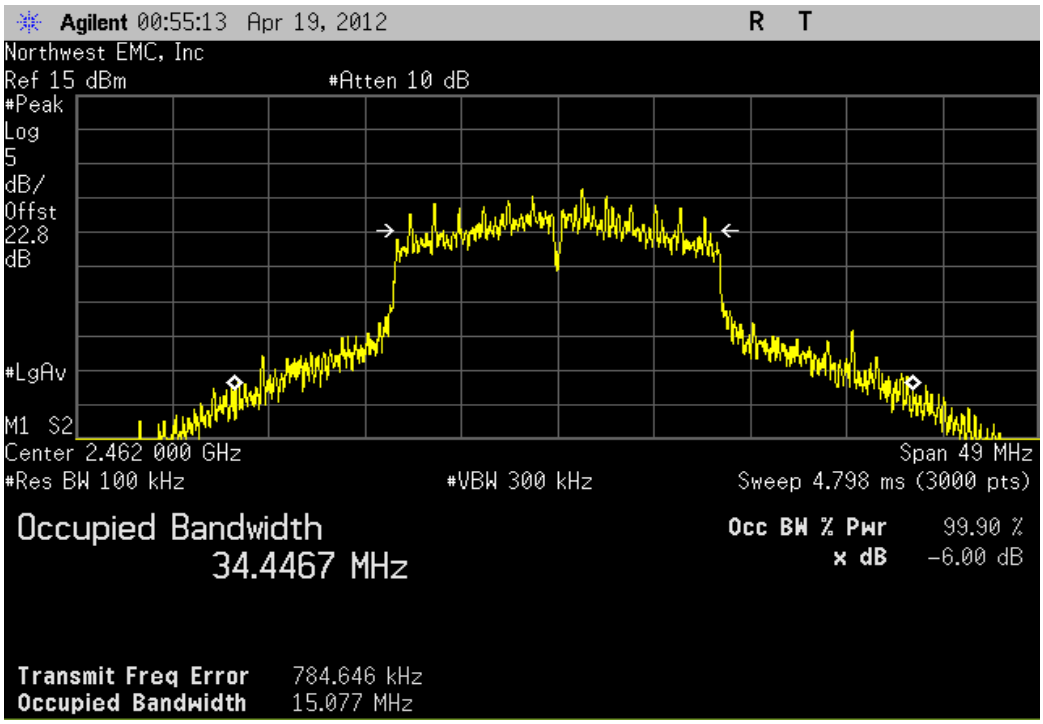
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz

				Value	Limit	Result
				15.004 MHz	> 500 kHz	Pass



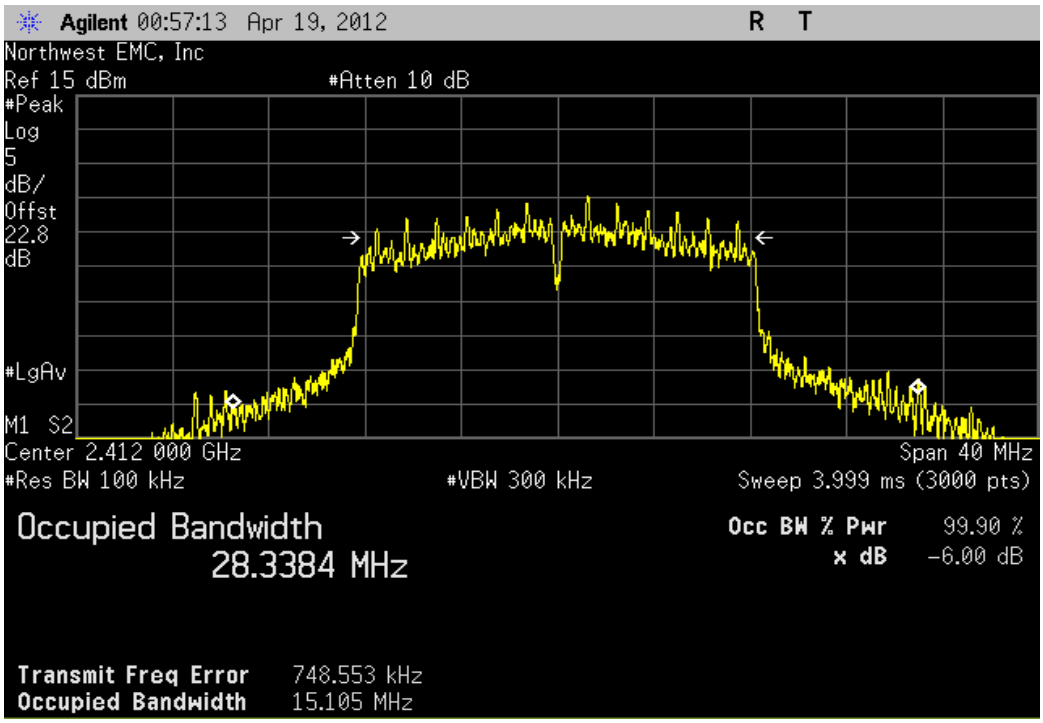
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				15.077 MHz	> 500 kHz	Pass



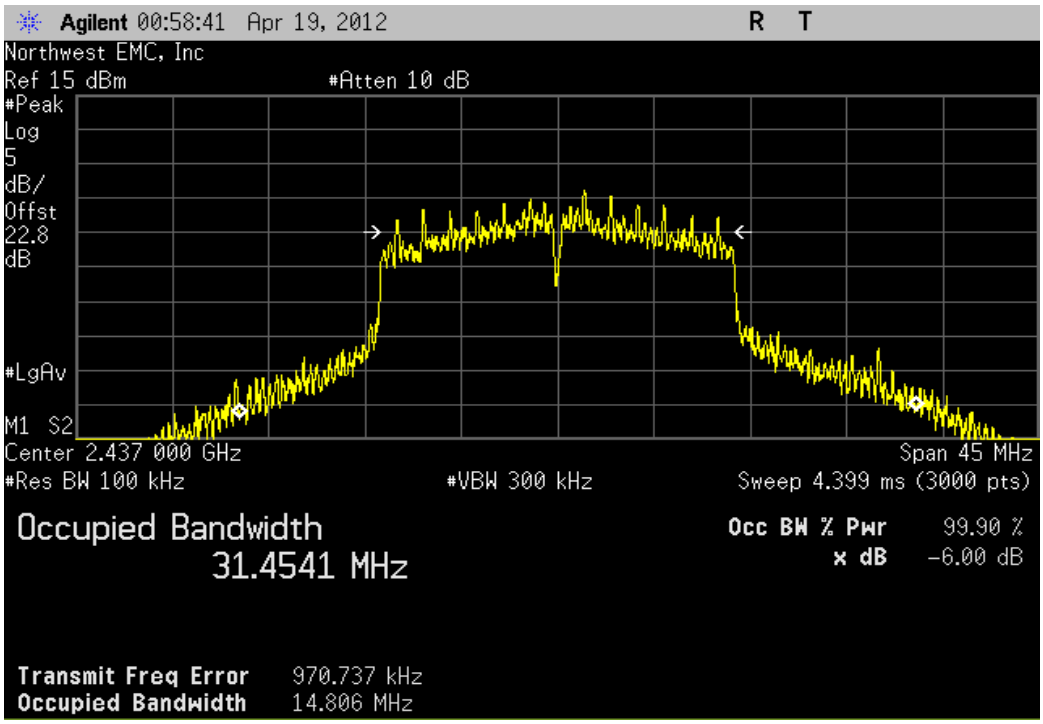
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				15.105 MHz	> 500 kHz	Pass



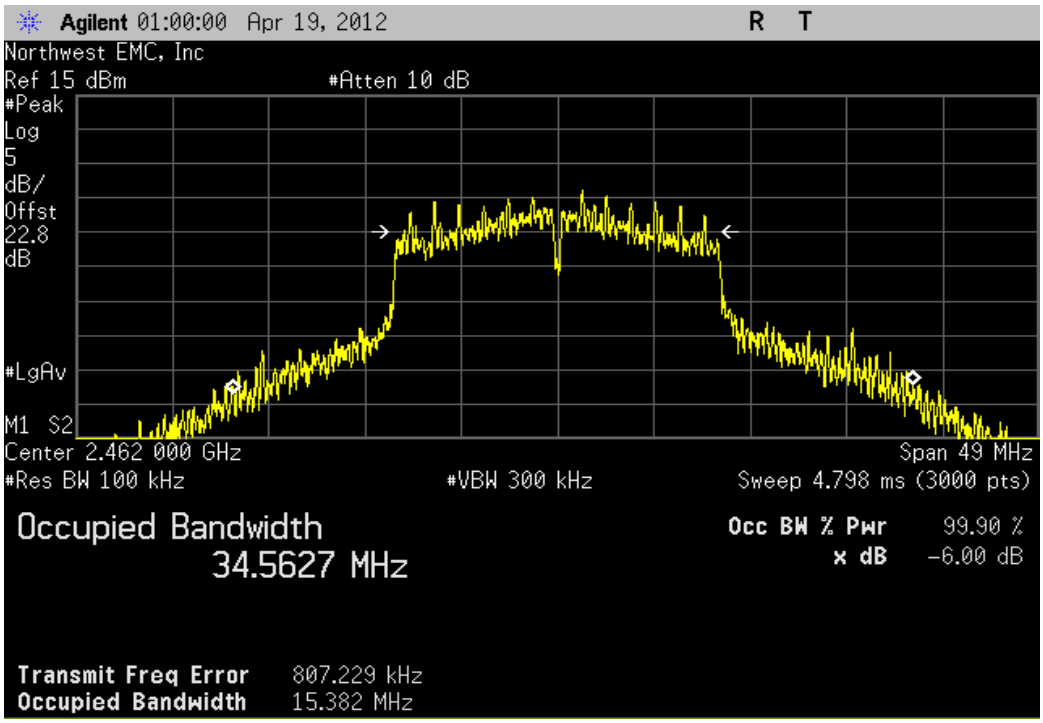
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz

				Value	Limit	Result
				14.806 MHz	> 500 kHz	Pass



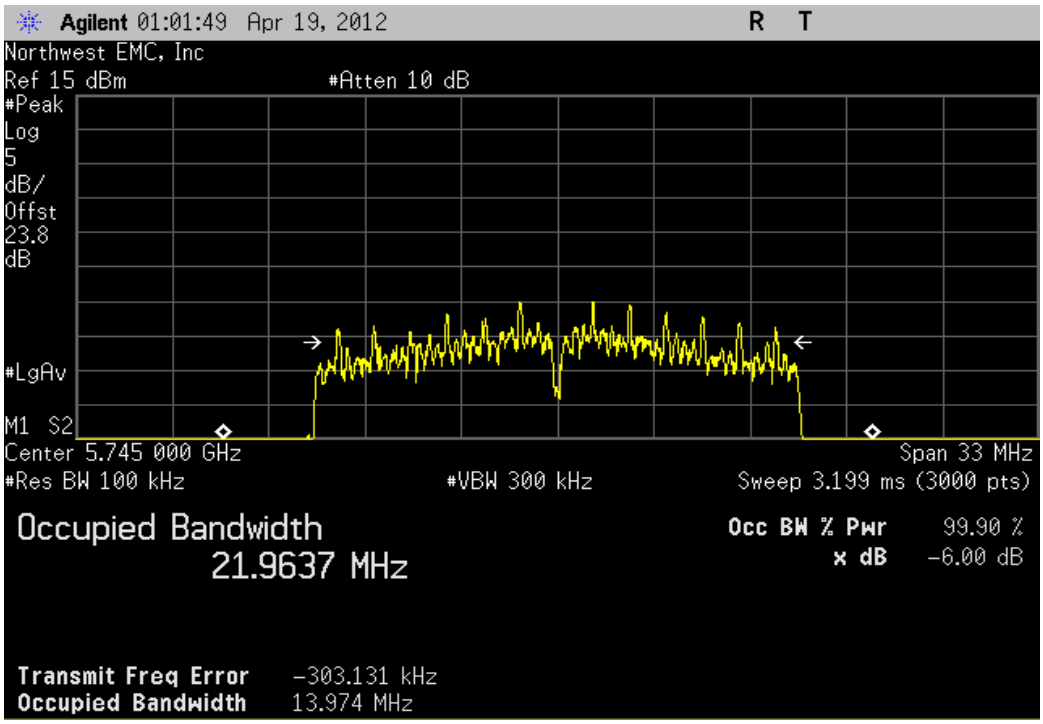
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				15.382 MHz	> 500 kHz	Pass



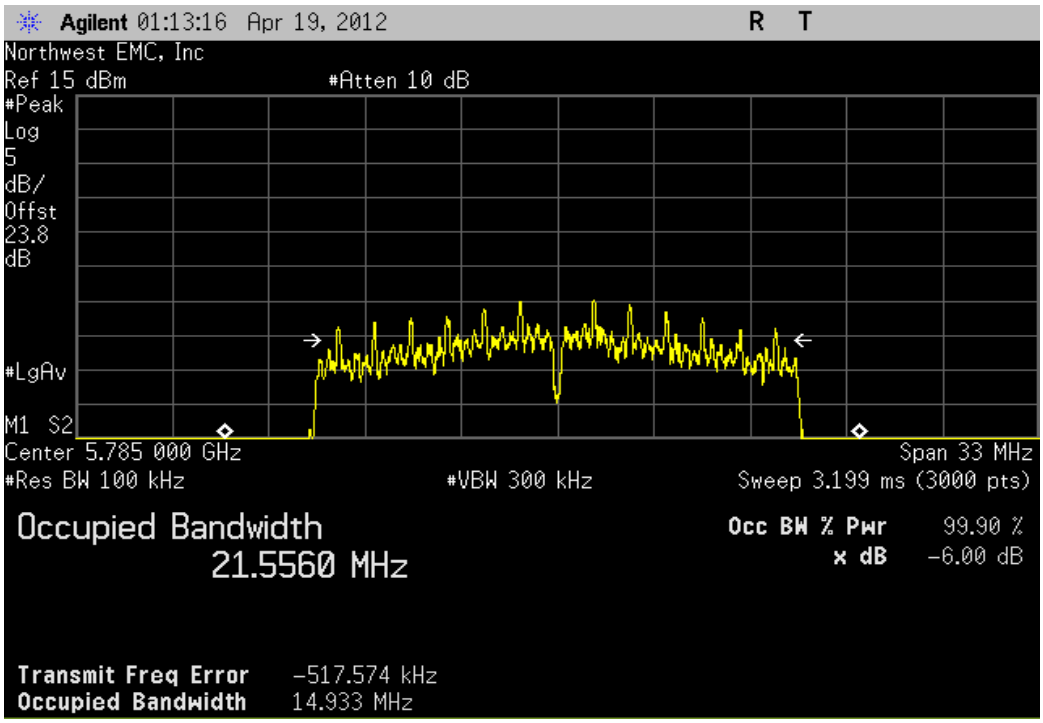
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz

				Value	Limit	Result
				13.974 MHz	> 500 kHz	Pass



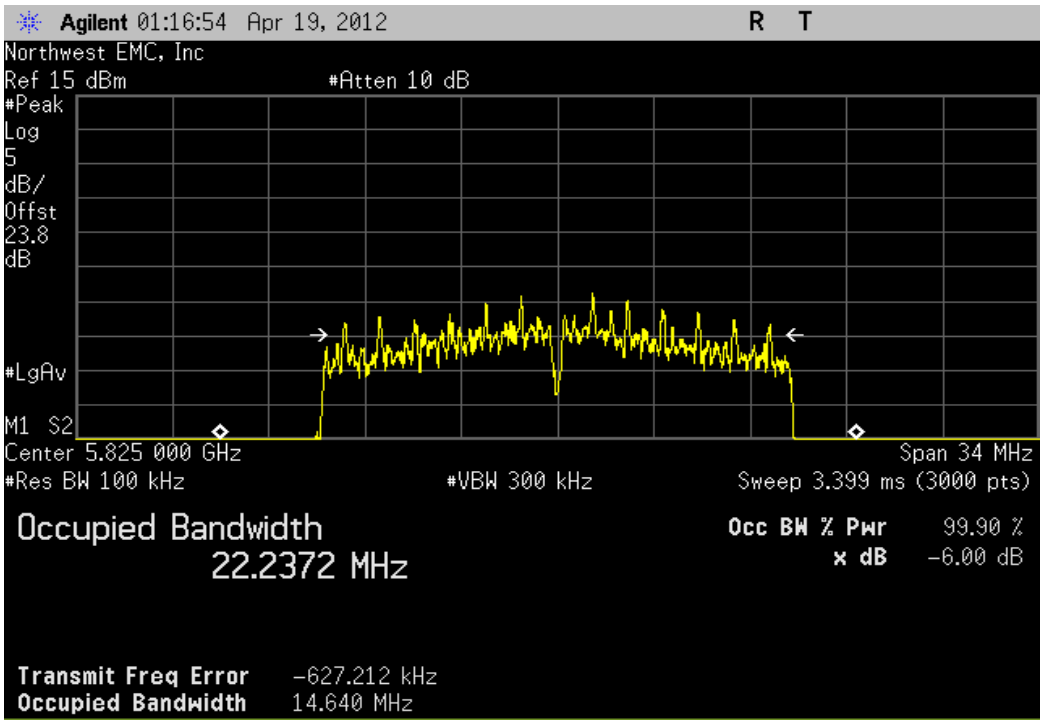
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz

				Value	Limit	Result
				14.933 MHz	> 500 kHz	Pass



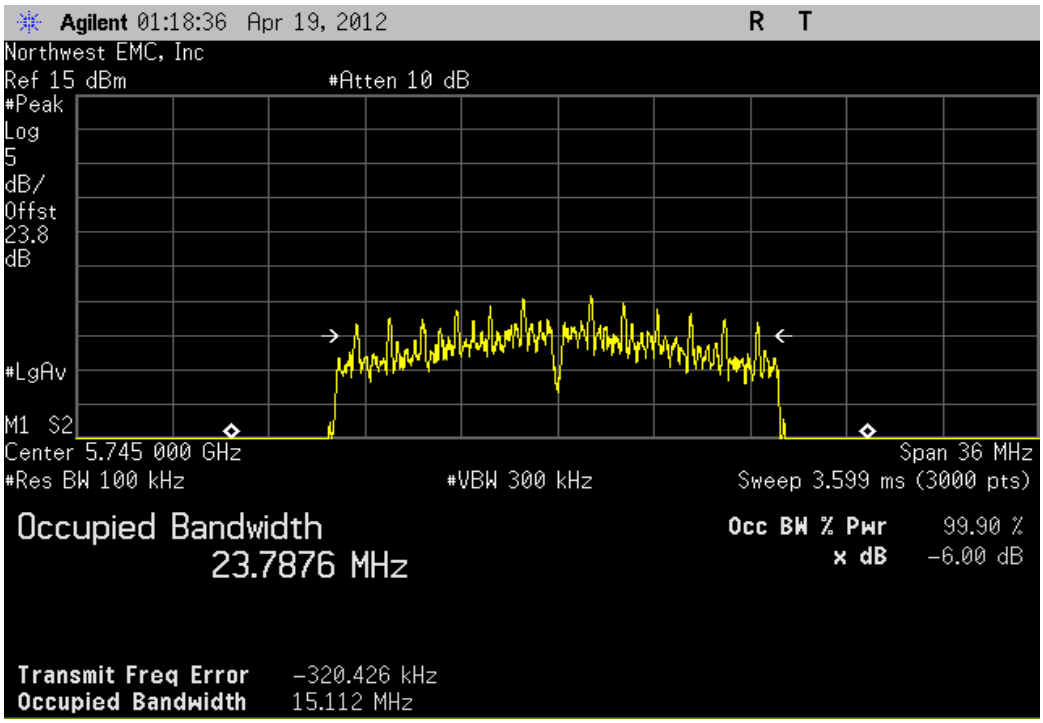
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz

				Value	Limit	Result
				14.64 MHz	> 500 kHz	Pass



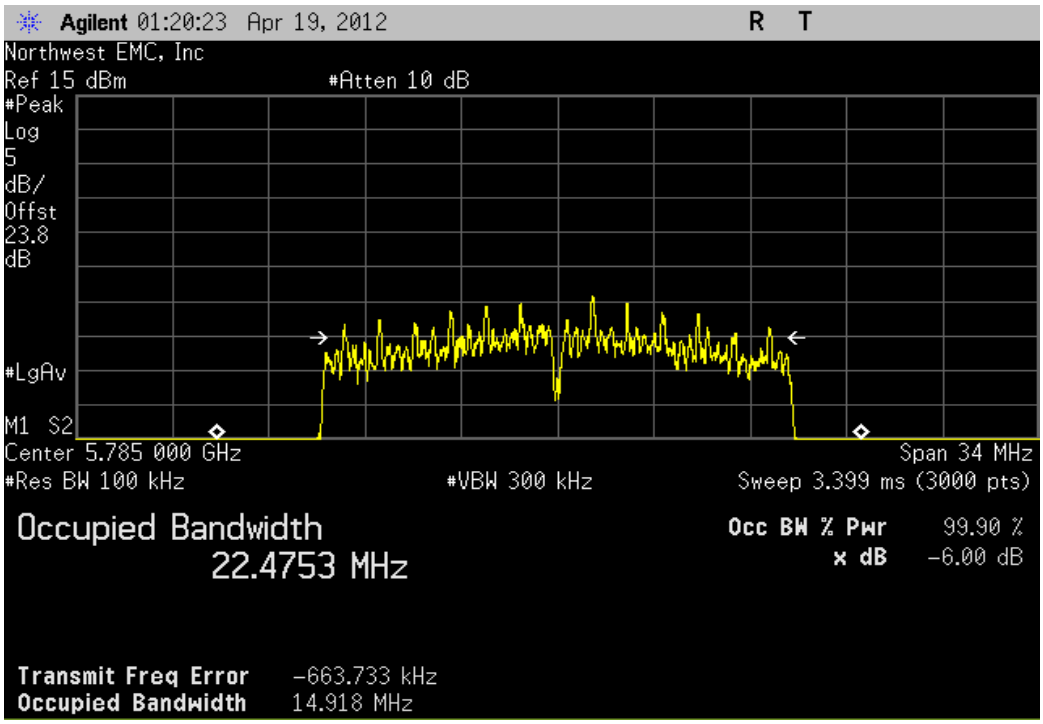
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz

				Value	Limit	Result
				15.112 MHz	> 500 kHz	Pass



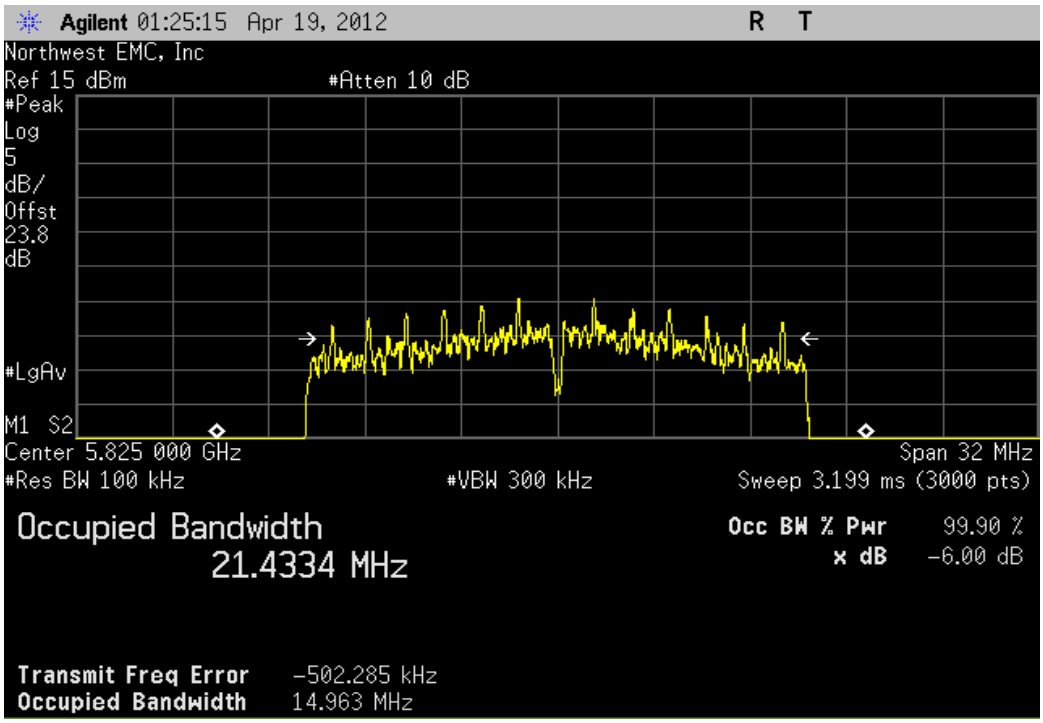
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz

				Value	Limit	Result
				14.918 MHz	> 500 kHz	Pass



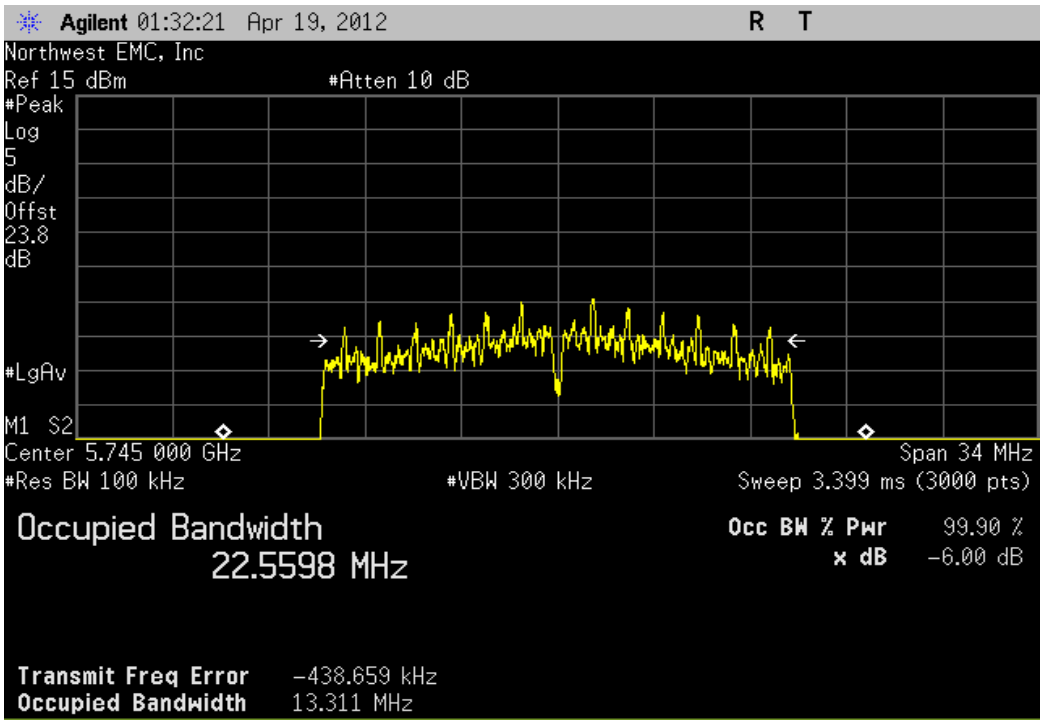
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz

				Value	Limit	Result
				14.963 MHz	> 500 kHz	Pass



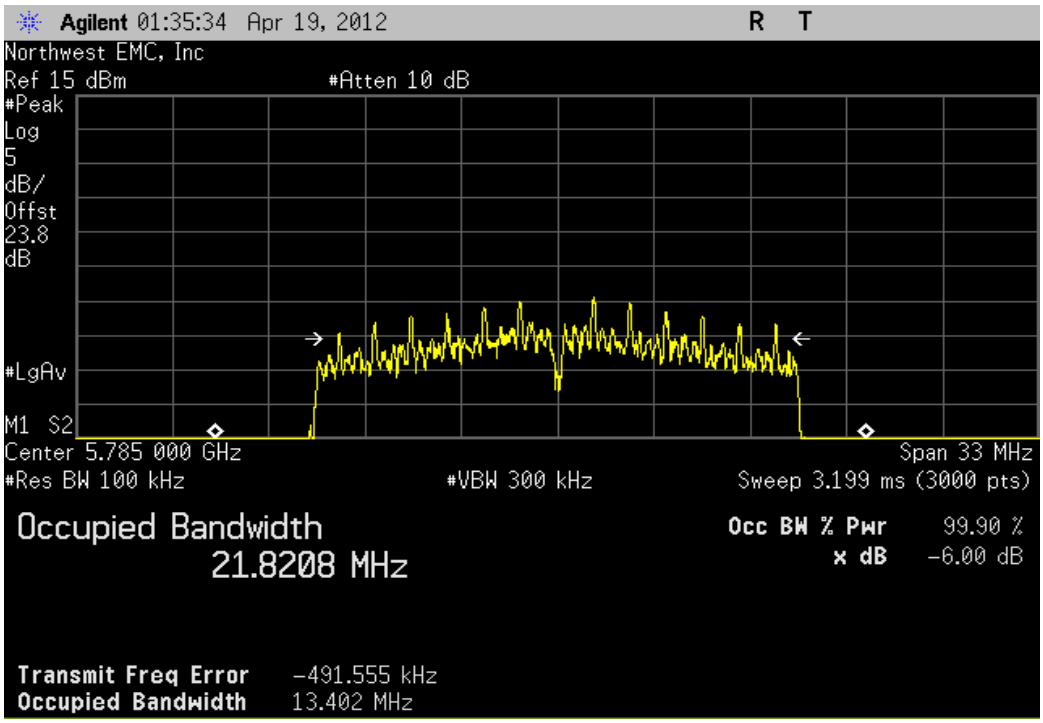
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz

				Value	Limit	Result
				13.311 MHz	> 500 kHz	Pass



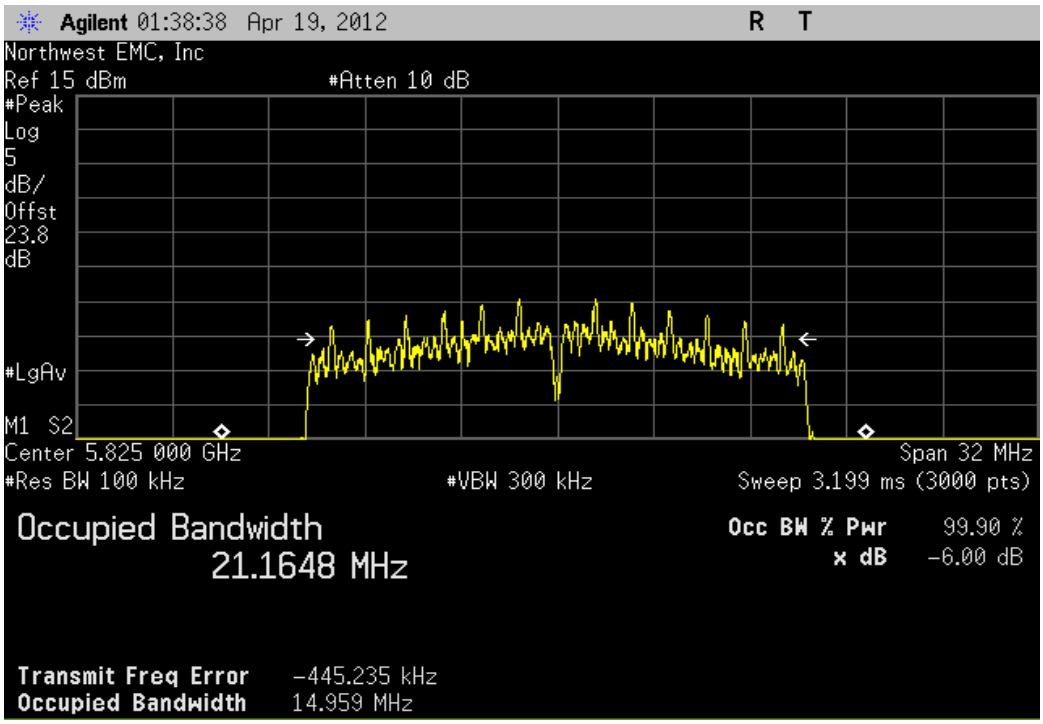
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz

				Value	Limit	Result
				13.402 MHz	> 500 kHz	Pass



5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz

				Value	Limit	Result
				14.959 MHz	> 500 kHz	Pass



Output Power

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4446A	AAY	1/9/2012	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	10/12/2011	12
Signal Generator	Agilent	E8257D	TGU	2/1/2012	12

MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

The transmit frequency was set to the required channels in each band, at each of the required data rates. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input. The amplitude accuracy of the spectrum analyzer was further enhanced by calibrating the setup using the power meter and synthesized signal generator.

- Prior to measuring peak transmit power; the emission bandwidth (B) was measured.
- Power was integrated across “B”, by using the channel power function of the spectrum analyzer and its default bandwidths.

Output Power

EUT:	RAD7CA			**Work Order:**	MASI0095
Serial Number:	34996 Rev C			**Date:**	04/27/12
Customer:	Masimo Corporation			**Temperature:**	22.84 C°C
Attendees:	none			**Humidity:**	38%
Project:	None			**Barometric Pres.:**	1014.4
Tested by:	Jaemi Suh	**Power:**	120VAC/60Hz	**Job Site:**	OC10

TEST SPECIFICATIONS	Test Method
FCC 15.247:2012	ANSI C63.10:2009

COMMENTS

Antenna Port 1. Power Level setting set to 99.

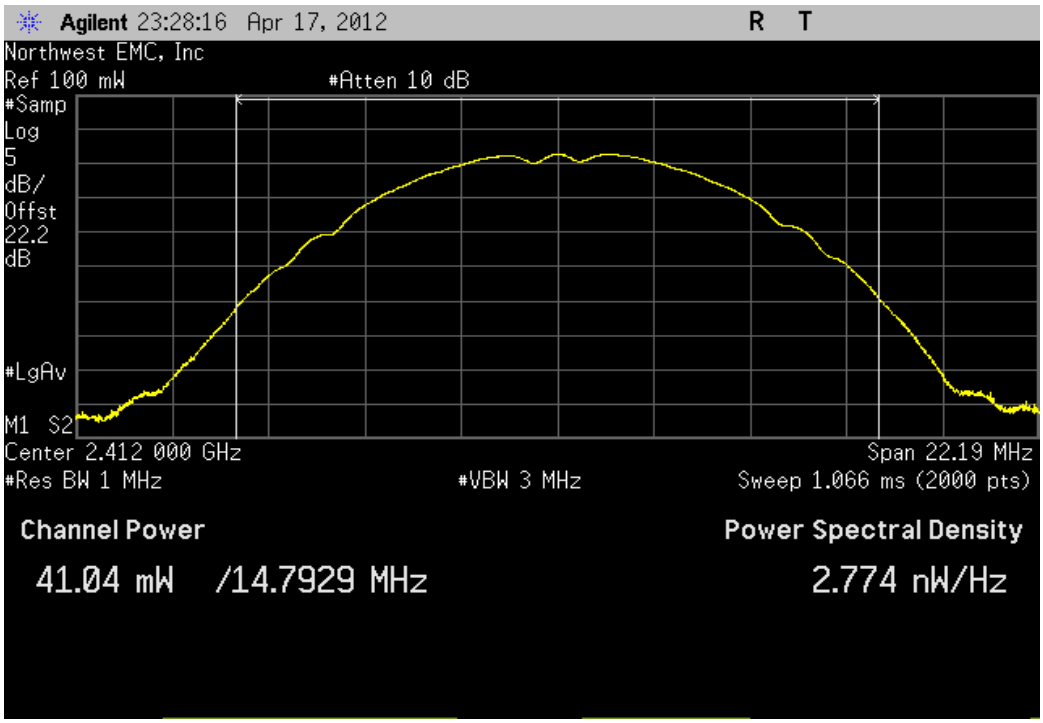
DEVIATIONS FROM TEST STANDARD

Configuration #	1	Signature

		Value	Limit	Result
2400 MHz - 2483.5 MHz Band				
	802.11(b) 1 Mbps			
	Low Channel 1, 2412 MHz	41.04 mW	< 1 W	Pass
	Mid Channel 6, 2437 MHz	46.332 mW	< 1 W	Pass
	High Channel 11, 2462 MHz	49.663 mW	< 1 W	Pass
	802.11(b) 11 Mbps			
	Low Channel 1, 2412 MHz	39.696 mW	< 1 W	Pass
	Mid Channel 6, 2437 MHz	44.858 mW	< 1 W	Pass
	High Channel 11, 2462 MHz	52.352 mW	< 1 W	Pass
	802.11(g) 6 Mbps			
	Low Channel 1, 2412 MHz	27.942 mW	< 1 W	Pass
	Mid Channel 6, 2437 MHz	30.978 mW	< 1 W	Pass
	High Channel 11, 2462 MHz	36.443 mW	< 1 W	Pass
	802.11(g) 36 Mbps			
	Low Channel 1, 2412 MHz	24.134 mW	< 1 W	Pass
	Mid Channel 6, 2437 MHz	26.97 mW	< 1 W	Pass
	High Channel 11, 2462 MHz	30.612 mW	< 1 W	Pass
	802.11(g) 54 Mbps			
	Low Channel 1, 2412 MHz	22.038 mW	< 1 W	Pass
	Mid Channel 6, 2437 MHz	25.503 mW	< 1 W	Pass
	High Channel 11, 2462 MHz	28.36 mW	< 1 W	Pass
5725 MHz - 5850 MHz Band				
	802.11(a) 6 Mbps			
	Low Channel 149, 5745 MHz	5.923 mW	< 1 W	Pass
	Mid Channel 157, 5785 MHz	5.752 mW	< 1 W	Pass
	High Channel 165, 5825 MHz	5.333 mW	< 1 W	Pass
	802.11(a) 36 Mbps			
	Low Channel 149, 5745 MHz	6.228 mW	< 1 W	Pass
	Mid Channel 157, 5785 MHz	5.826 mW	< 1 W	Pass
	High Channel 165, 5825 MHz	5.361 mW	< 1 W	Pass
	802.11(a) 54 Mbps			
	Low Channel 149, 5745 MHz	6.093 mW	< 1 W	Pass
	Mid Channel 157, 5785 MHz	5.926 mW	< 1 W	Pass
	High Channel 165, 5825 MHz	5.319 mW	< 1 W	Pass

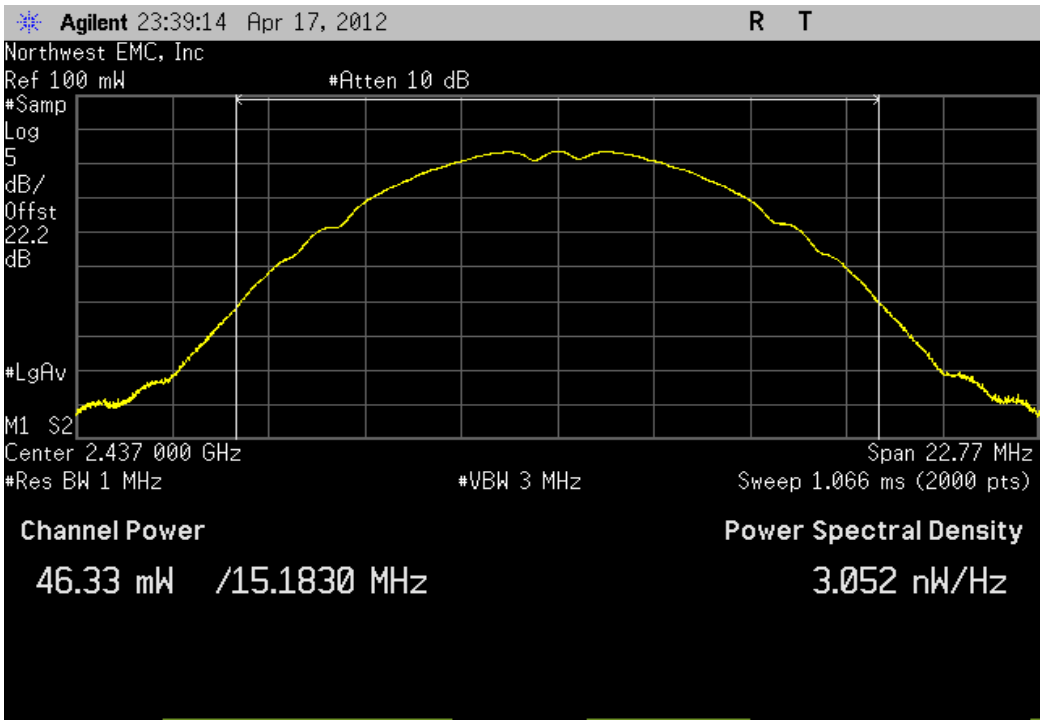
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				41.04 mW	< 1 W	Pass

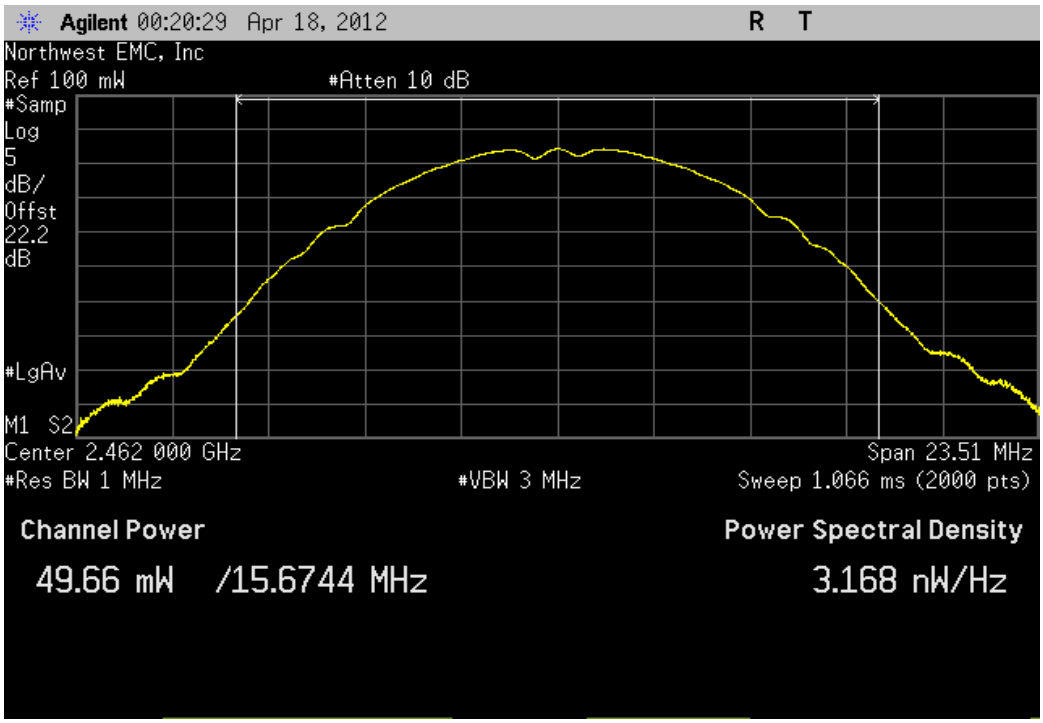


2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz

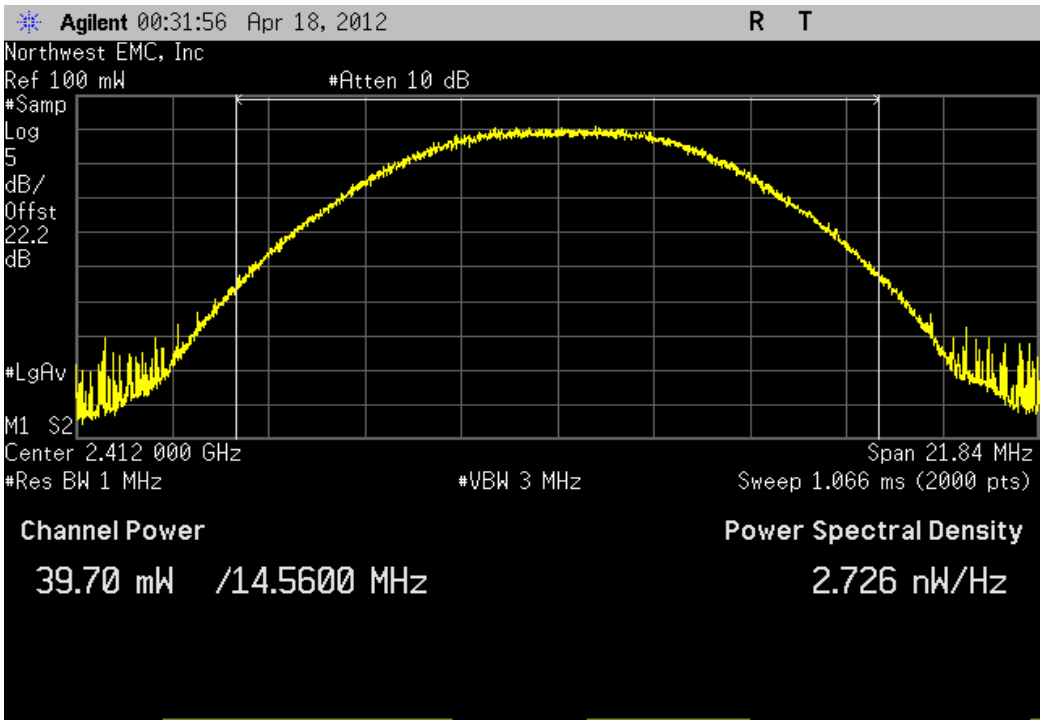
				Value	Limit	Result
				46.332 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
				Value	Limit	Result
				49.663 mW	< 1 W	Pass

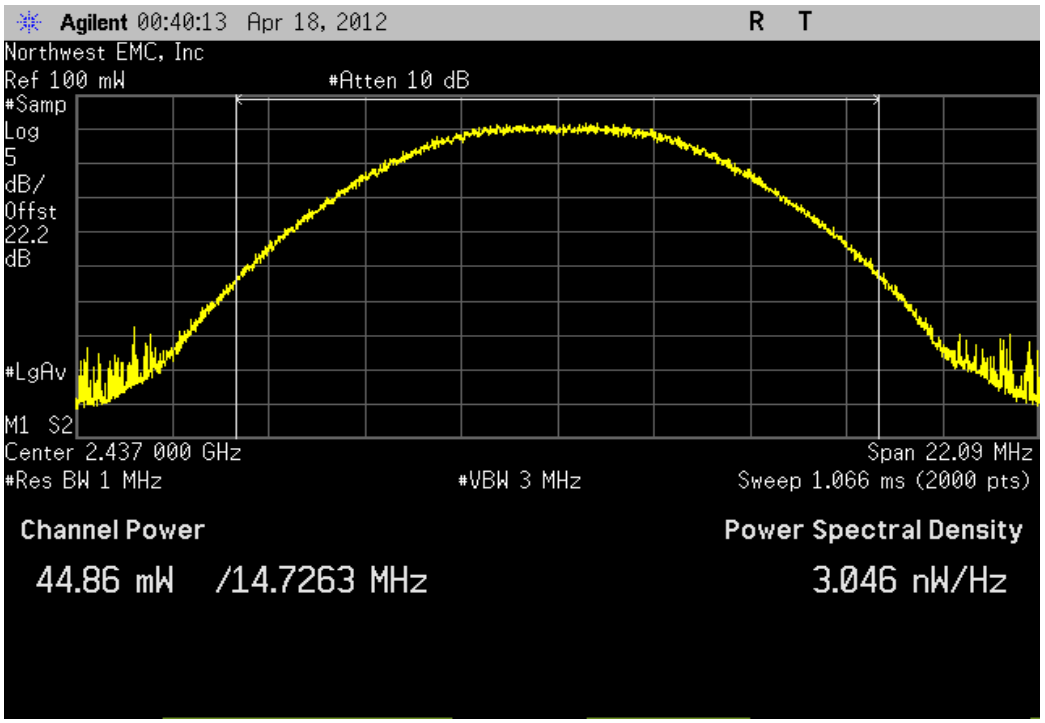


2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz						
				Value	Limit	Result
				39.696 mW	< 1 W	Pass



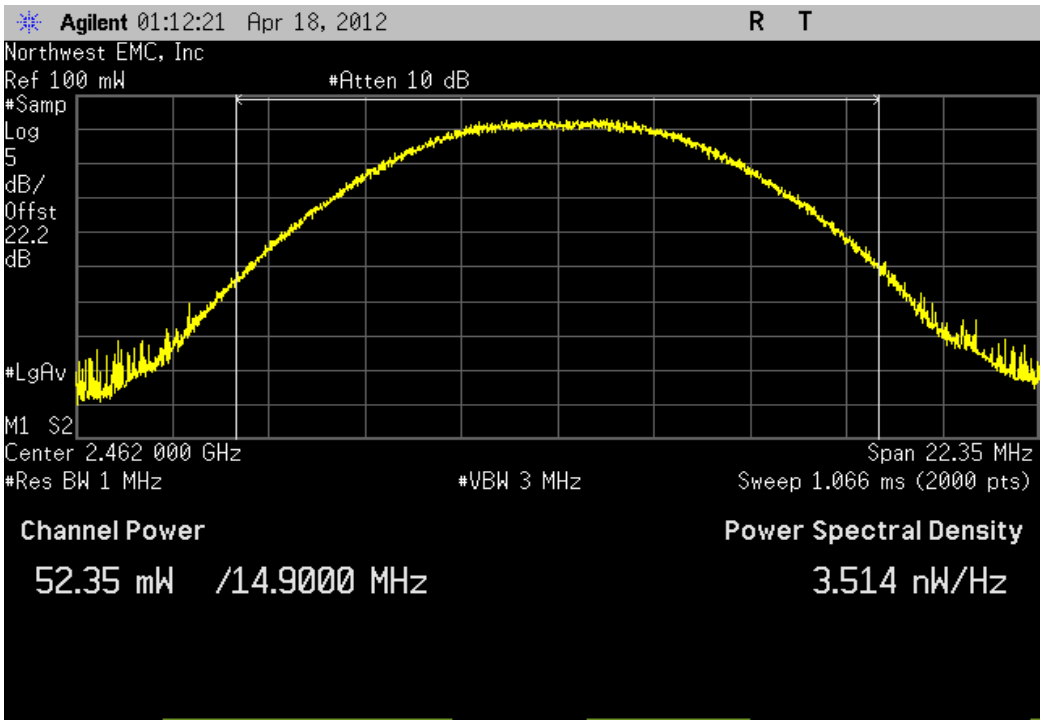
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz

				Value	Limit	Result
				44.858 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz

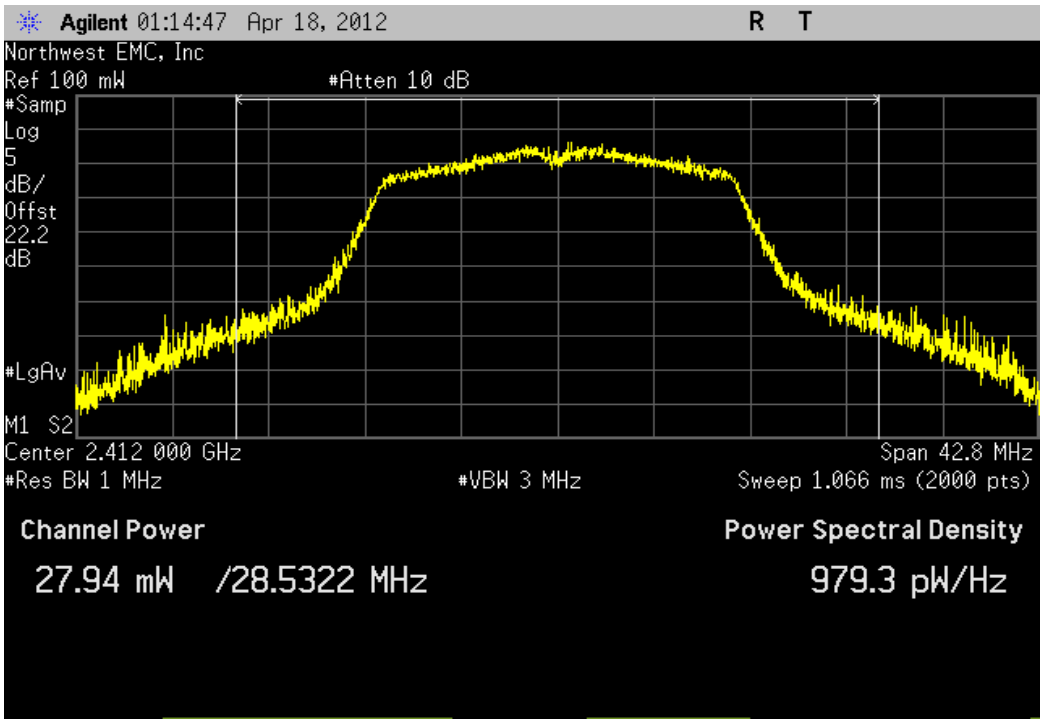
				Value	Limit	Result
				52.352 mW	< 1 W	Pass



Output Power

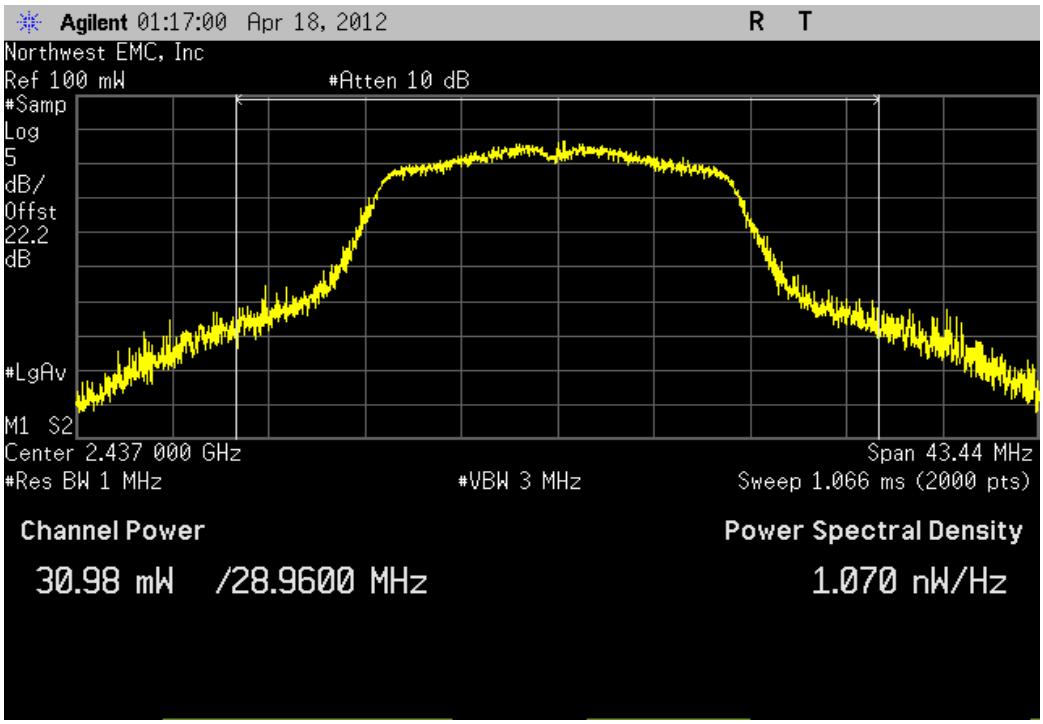
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				27.942 mW	< 1 W	Pass



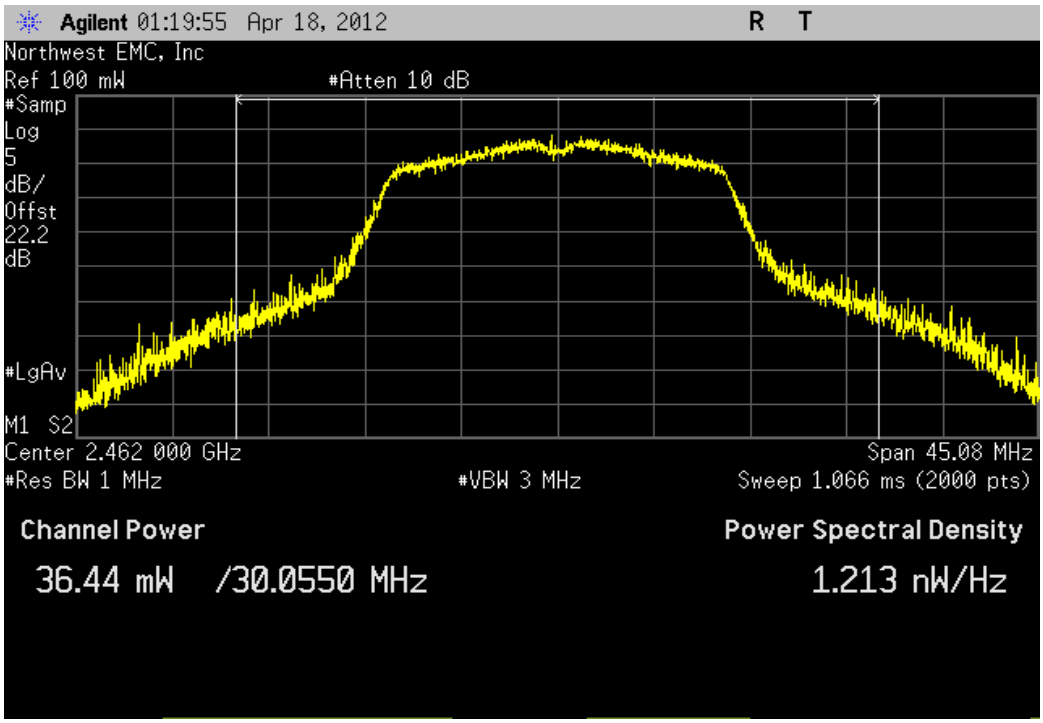
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz

				Value	Limit	Result
				30.978 mW	< 1 W	Pass



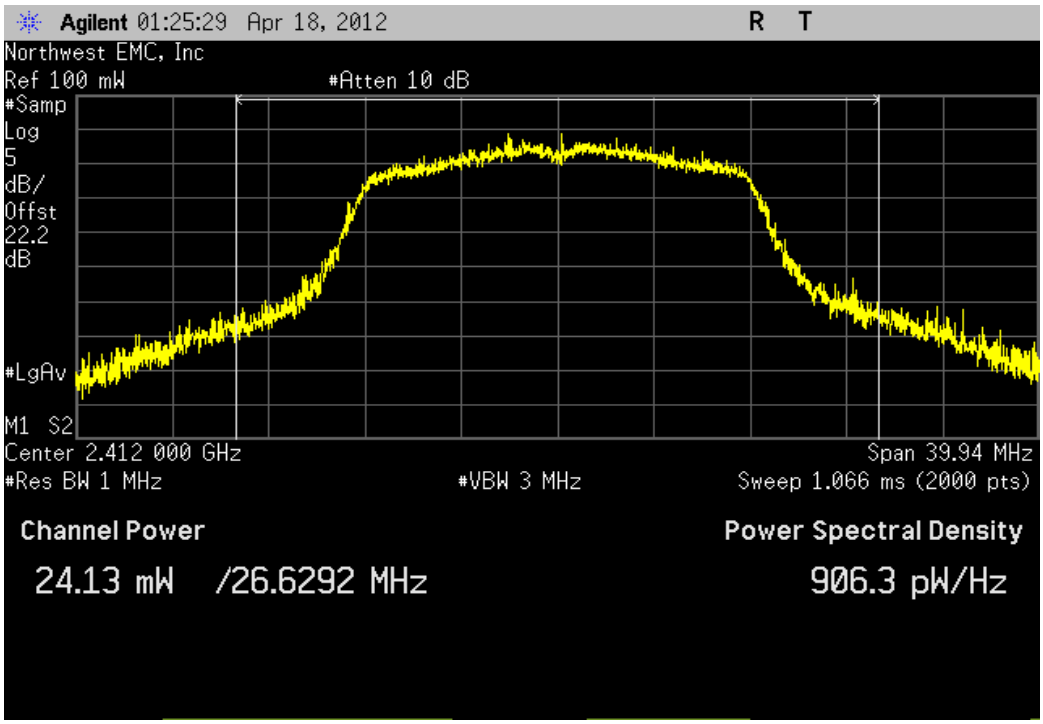
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				36.443 mW	< 1 W	Pass

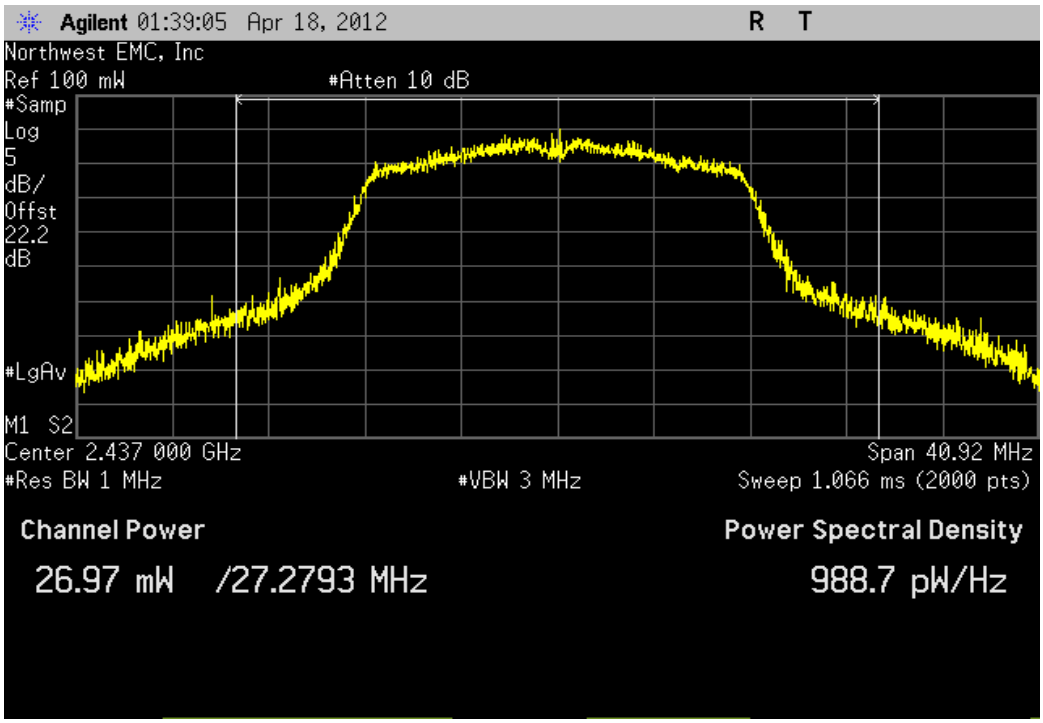


2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz

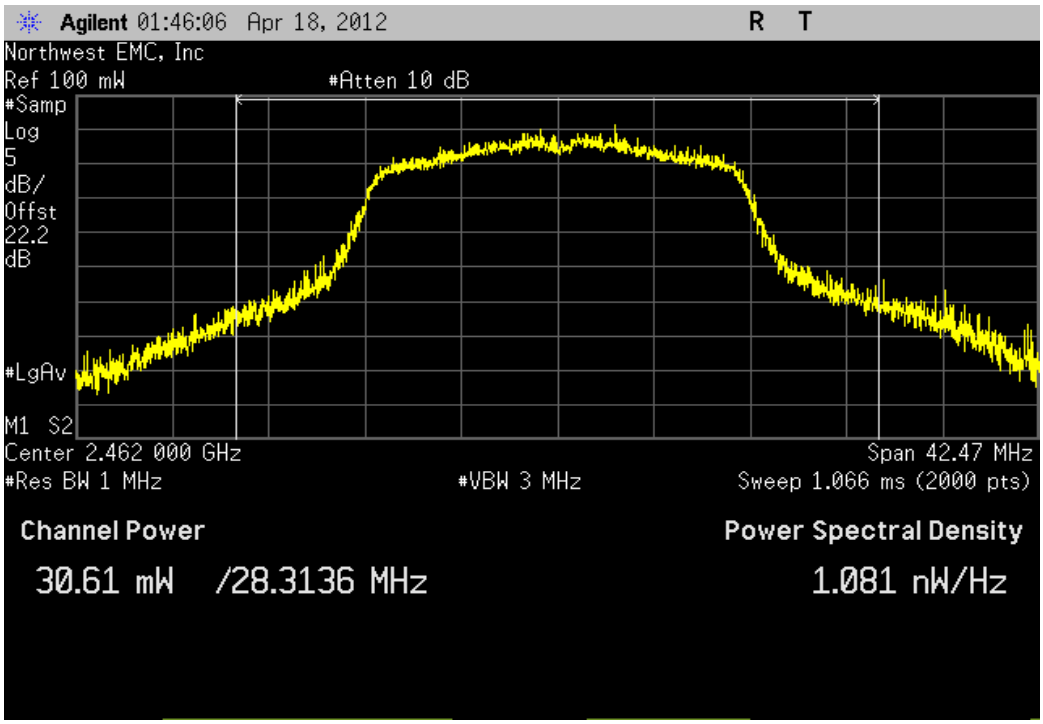
				Value	Limit	Result
				24.134 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
				Value	Limit	Result
				26.97 mW	< 1 W	Pass



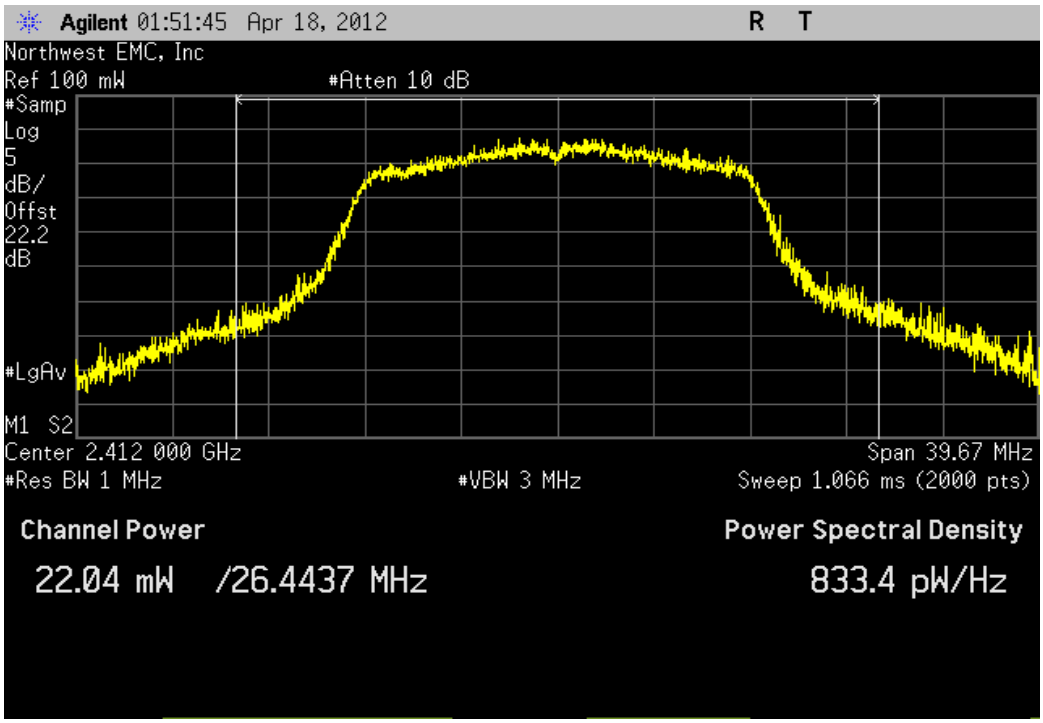
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz						
				Value	Limit	Result
				30.612 mW	< 1 W	Pass



Output Power

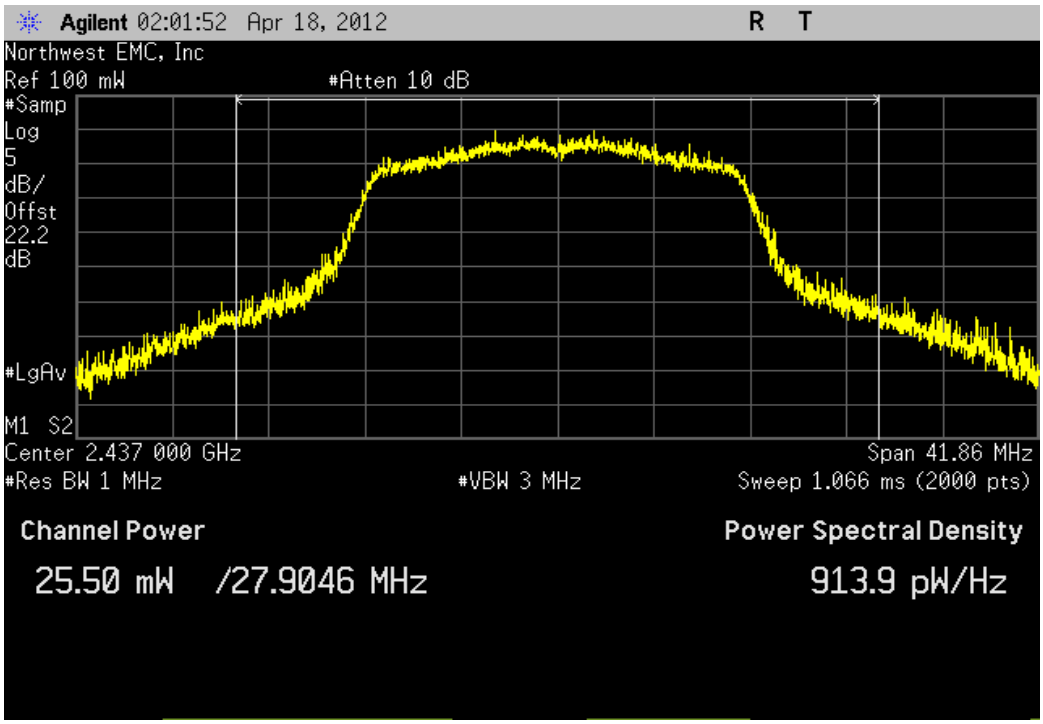
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				22.038 mW	< 1 W	Pass



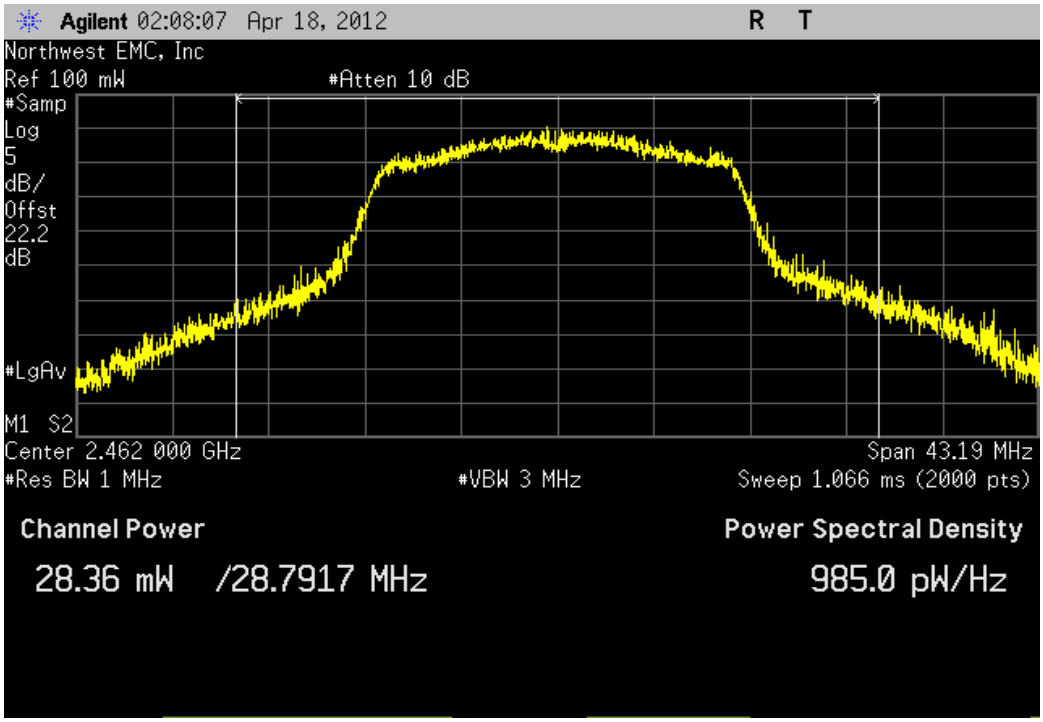
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz

				Value	Limit	Result
				25.503 mW	< 1 W	Pass

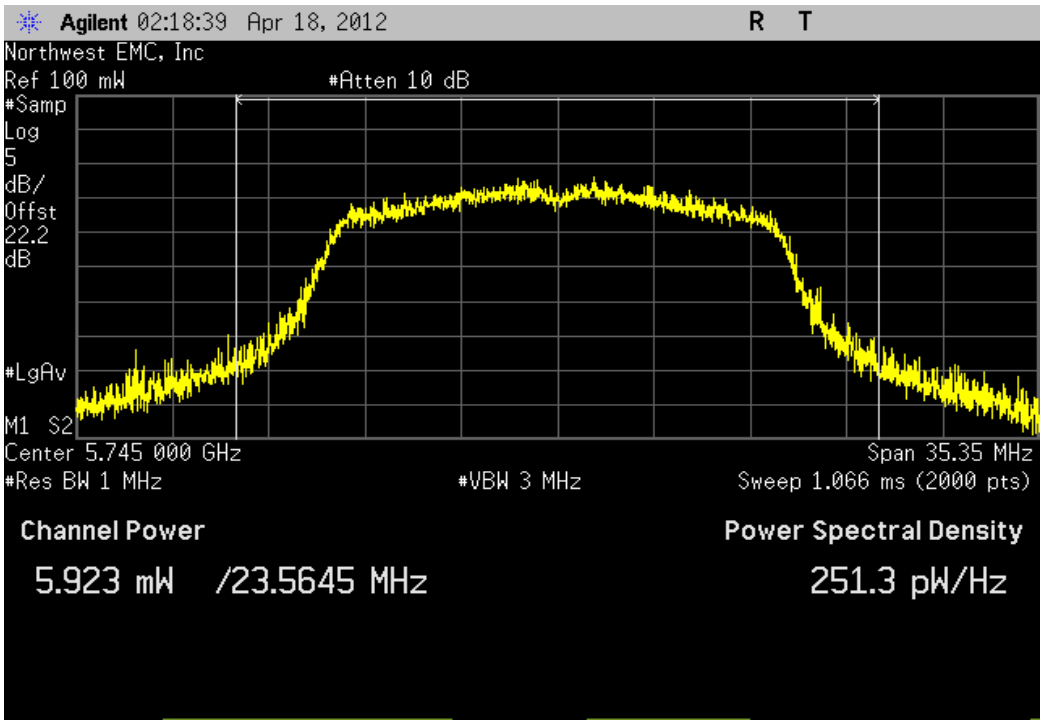


Output Power

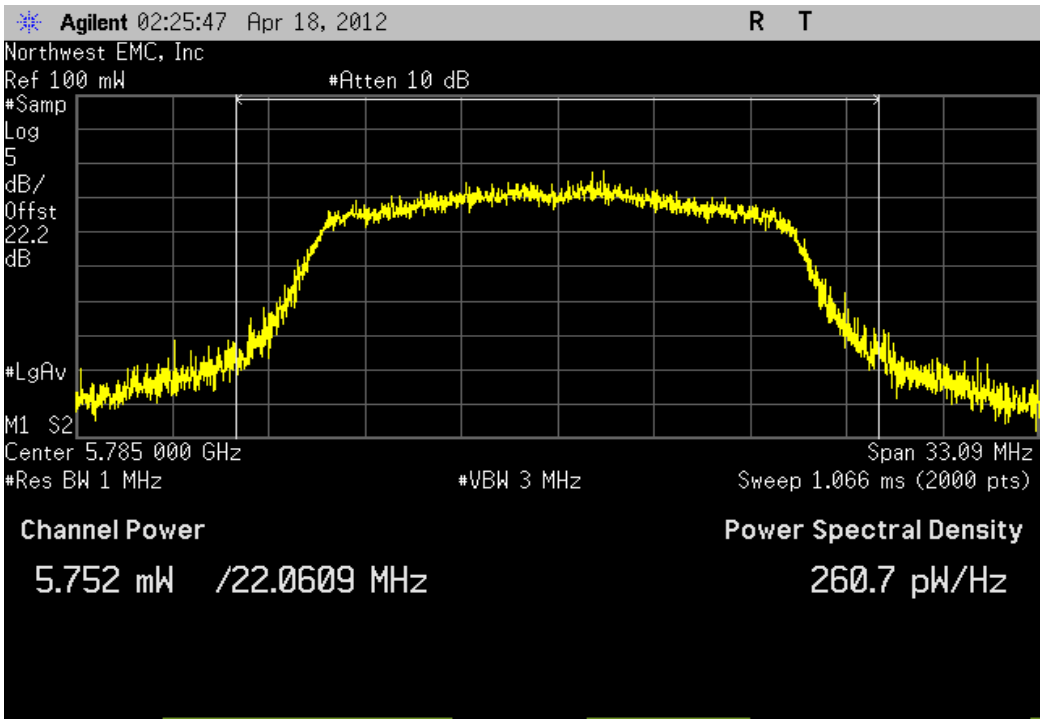
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
				Value	Limit	Result
				28.36 mW	< 1 W	Pass



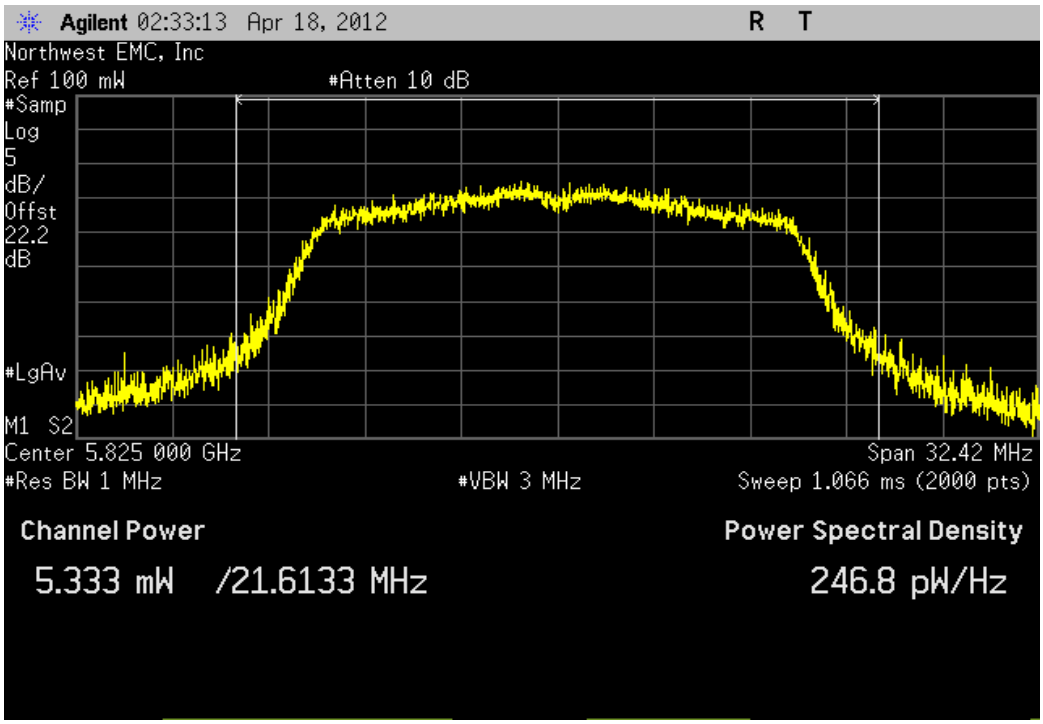
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz						
				Value	Limit	Result
				5.923 mW	< 1 W	Pass



5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz						
				Value	Limit	Result
				5.752 mW	< 1 W	Pass

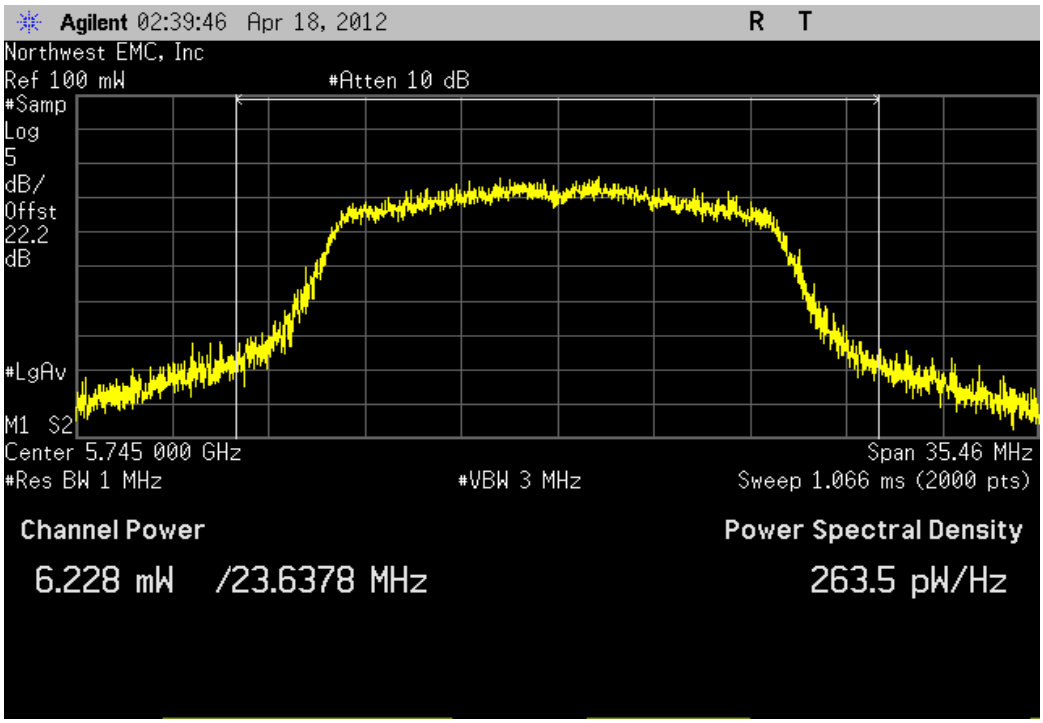


5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz						
				Value	Limit	Result
				5.333 mW	< 1 W	Pass



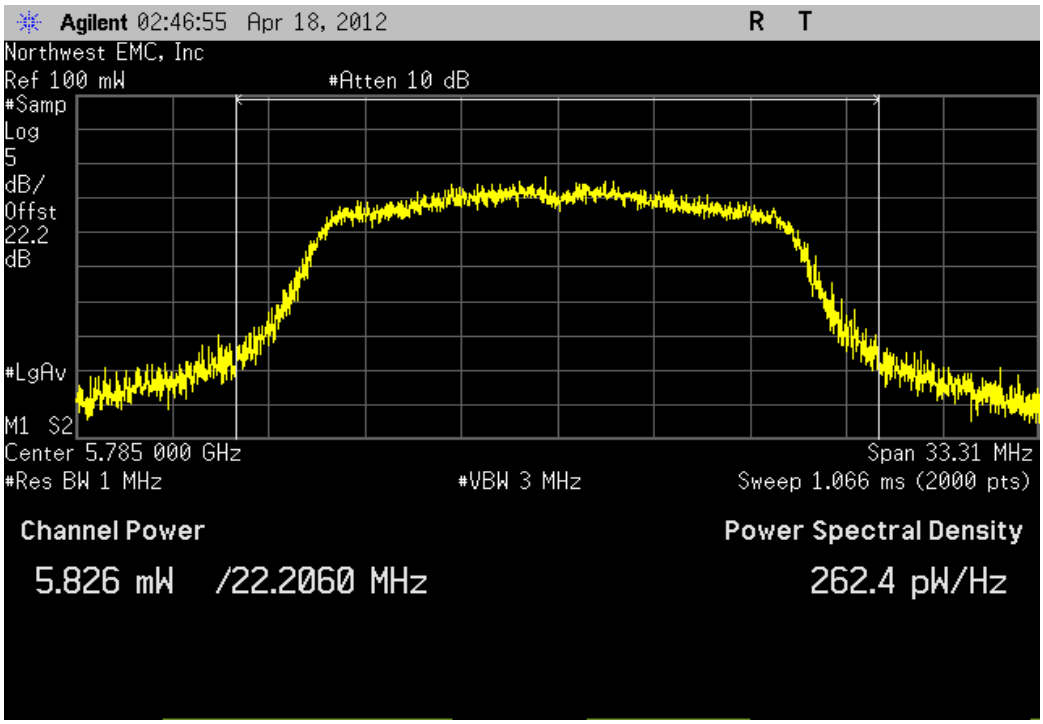
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz

				Value	Limit	Result
				6.228 mW	< 1 W	Pass



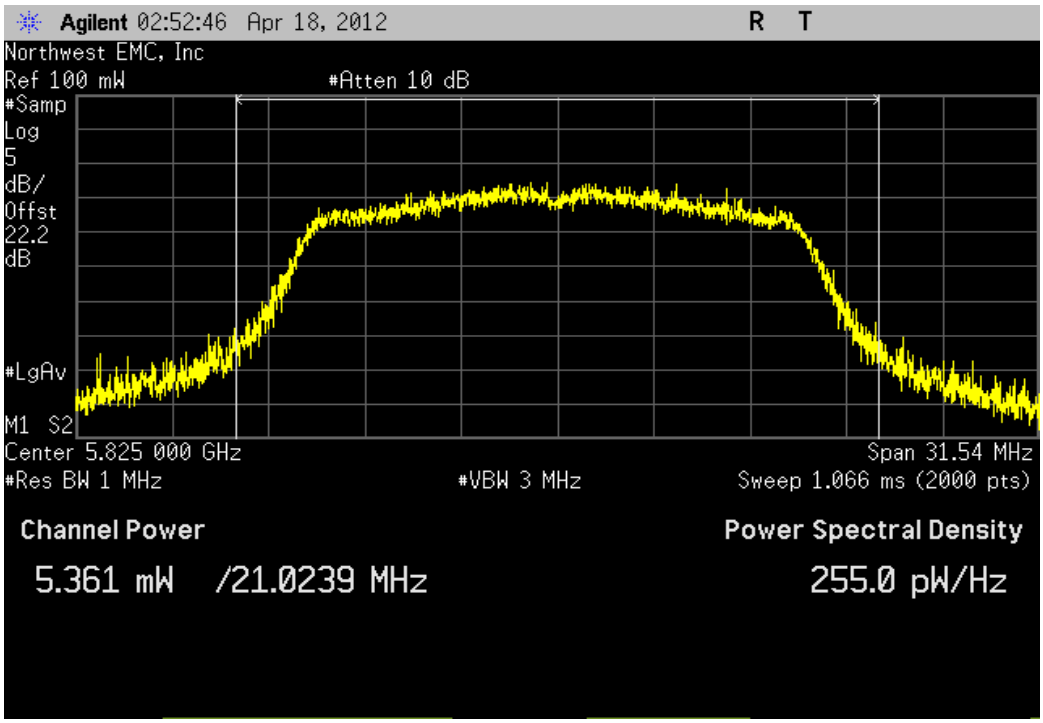
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz

				Value	Limit	Result
				5.826 mW	< 1 W	Pass



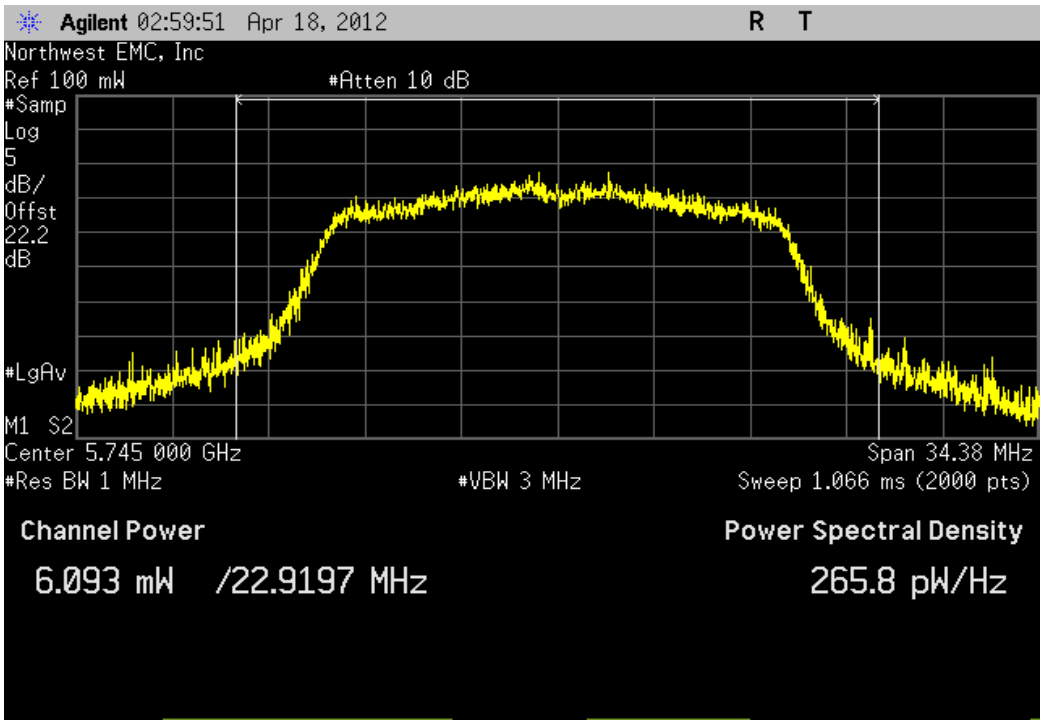
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz

				Value	Limit	Result
				5.361 mW	< 1 W	Pass



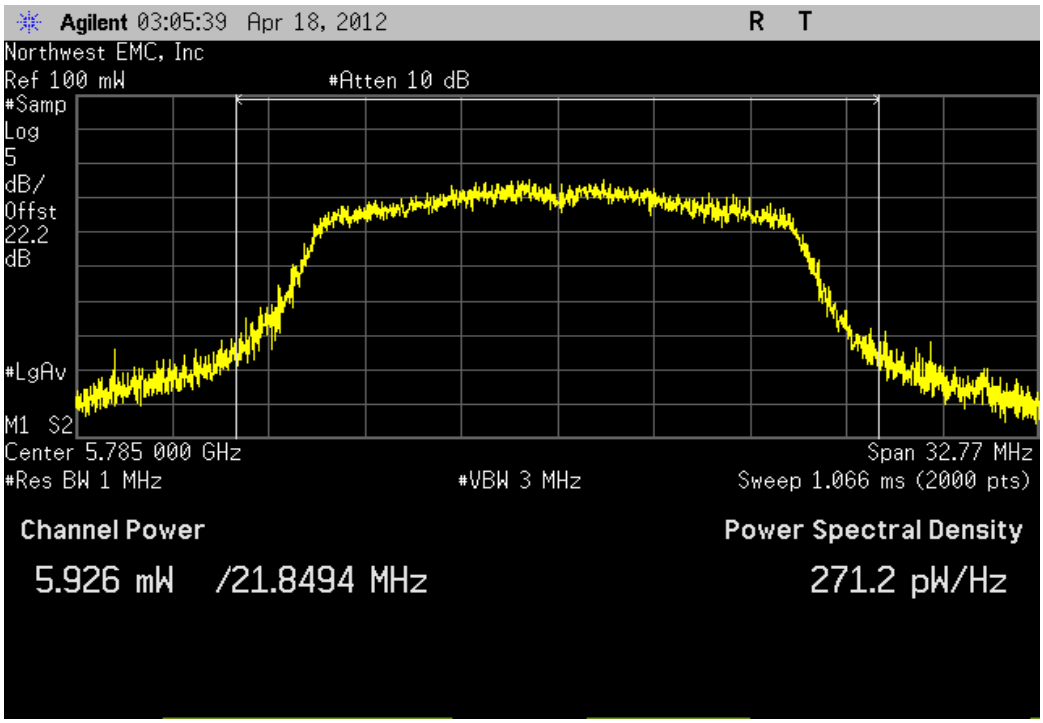
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz

				Value	Limit	Result
				6.093 mW	< 1 W	Pass



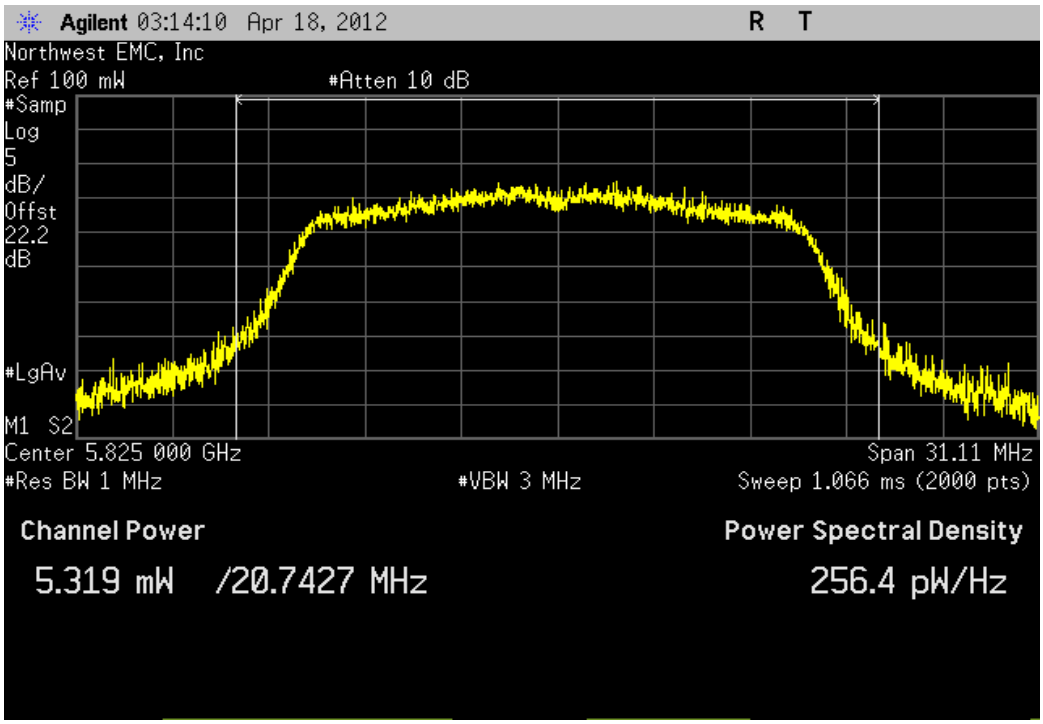
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz

				Value	Limit	Result
				5.926 mW	< 1 W	Pass



5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz

				Value	Limit	Result
				5.319 mW	< 1 W	Pass



Output Power

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TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4446A	AAY	1/9/2012	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	10/12/2011	12
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	6/2/2011	12
Signal Generator	Agilent	E8257D	TGU	2/1/2012	12

MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

The transmit frequency was set to the required channels in each band, at each of the required data rates. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input. The amplitude accuracy of the spectrum analyzer was further enhanced by calibrating the setup using the power meter and synthesized signal generator.

- Prior to measuring peak transmit power; the emission bandwidth (B) was measured.
- Power was integrated across “B”, by using the channel power function of the spectrum analyzer and its default bandwidths.

Output Power

EUT:	RAD7CA			**Work Order:**	MASI0095
Serial Number:	34996 Rev C			**Date:**	04/27/12
Customer:	Masimo Corporation			**Temperature:**	22.84 C°C
Attendees:	none			**Humidity:**	38%
Project:	None			**Barometric Pres.:**	1014.4
Tested by:	Jaemi Suh	**Power:**	110VAC/60Hz	**Job Site:**	OC10

TEST SPECIFICATIONS

FCC 15.247:2012	ANSI C63.10:2009

COMMENTS

Antenna Port 2. Power Level setting set to 99.

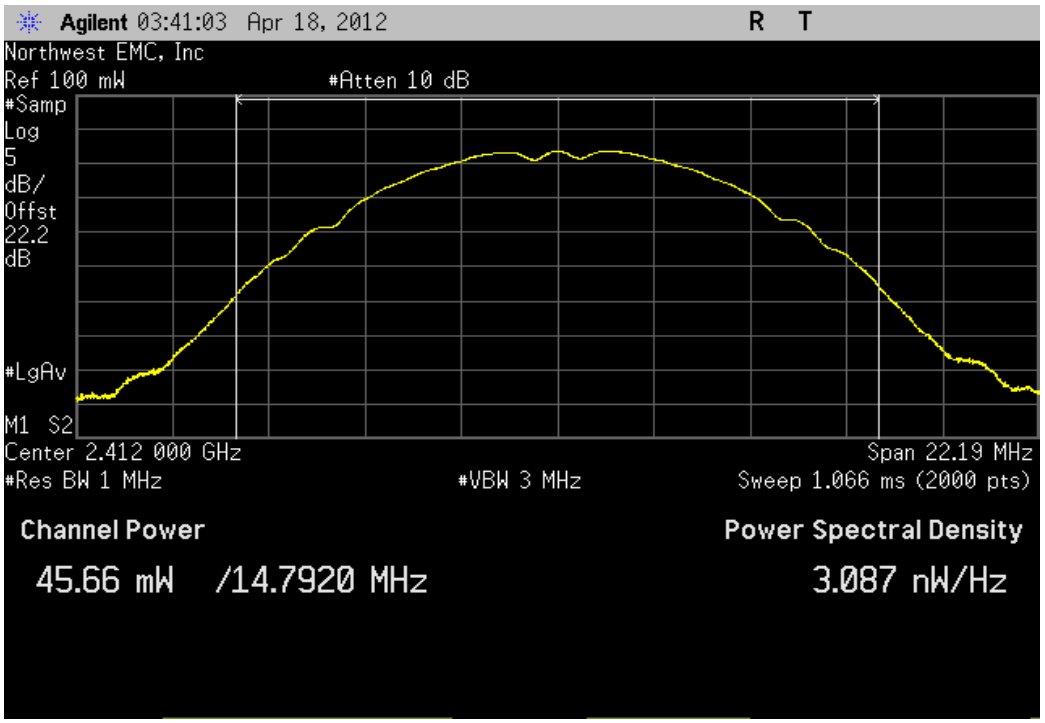
DEVIATIONS FROM TEST STANDARD

Configuration #	**1**	*Signature*

		Value	Limit	Result
2400 MHz - 2483.5 MHz Band				
	802.11(b) 1 Mbps			
	Low Channel 1, 2412 MHz	45.662 mW	< 1 W	Pass
	Mid Channel 6, 2437 MHz	54.121 mW	< 1 W	Pass
	High Channel 11, 2462 MHz	55.965 mW	< 1 W	Pass
	802.11(b) 11 Mbps			
	Low Channel 1, 2412 MHz	43.045 mW	< 1 W	Pass
	Mid Channel 6, 2437 MHz	50.962 mW	< 1 W	Pass
	High Channel 11, 2462 MHz	56.112 mW	< 1 W	Pass
	802.11(g) 6 Mbps			
	Low Channel 1, 2412 MHz	29.163 mW	< 1 W	Pass
	Mid Channel 6, 2437 MHz	35.39 mW	< 1 W	Pass
	High Channel 11, 2462 MHz	38.92 mW	< 1 W	Pass
	802.11(g) 36 Mbps			
	Low Channel 1, 2412 MHz	23.795 mW	< 1 W	Pass
	Mid Channel 6, 2437 MHz	29.965 mW	< 1 W	Pass
	High Channel 11, 2462 MHz	33.169 mW	< 1 W	Pass
	802.11(g) 54 Mbps			
	Low Channel 1, 2412 MHz	22.47 mW	< 1 W	Pass
	Mid Channel 6, 2437 MHz	27.932 mW	< 1 W	Pass
	High Channel 11, 2462 MHz	30.489 mW	< 1 W	Pass
5725 MHz - 5850 MHz Band				
	802.11(a) 6 Mbps			
	Low Channel 149, 5745 MHz	5.46 mW	< 1 W	Pass
	Mid Channel 157, 5785 MHz	4.799 mW	< 1 W	Pass
	High Channel 165, 5825 MHz	4.522 mW	< 1 W	Pass
	802.11(a) 36 Mbps			
	Low Channel 149, 5745 MHz	5.815 mW	< 1 W	Pass
	Mid Channel 157, 5785 MHz	4.872 mW	< 1 W	Pass
	High Channel 165, 5825 MHz	4.544 mW	< 1 W	Pass
	802.11(a) 54 Mbps			
	Low Channel 149, 5745 MHz	5.961 mW	< 1 W	Pass
	Mid Channel 157, 5785 MHz	4.858 mW	< 1 W	Pass
	High Channel 165, 5825 MHz	4.489 mW	< 1 W	Pass

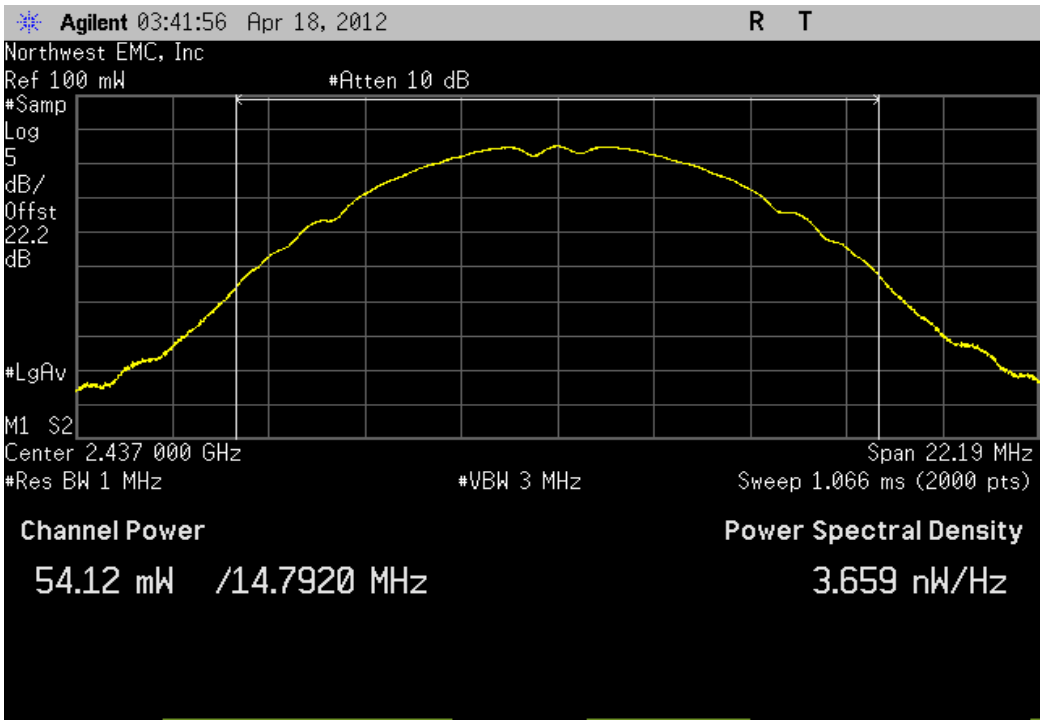
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				45.662 mW	< 1 W	Pass

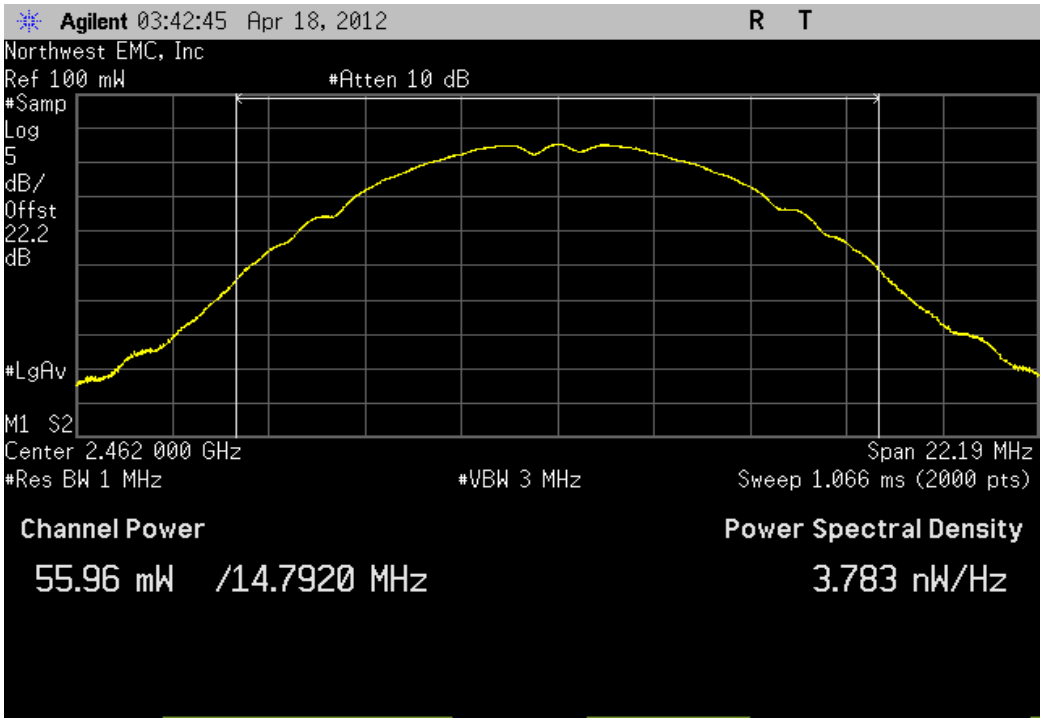


2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz

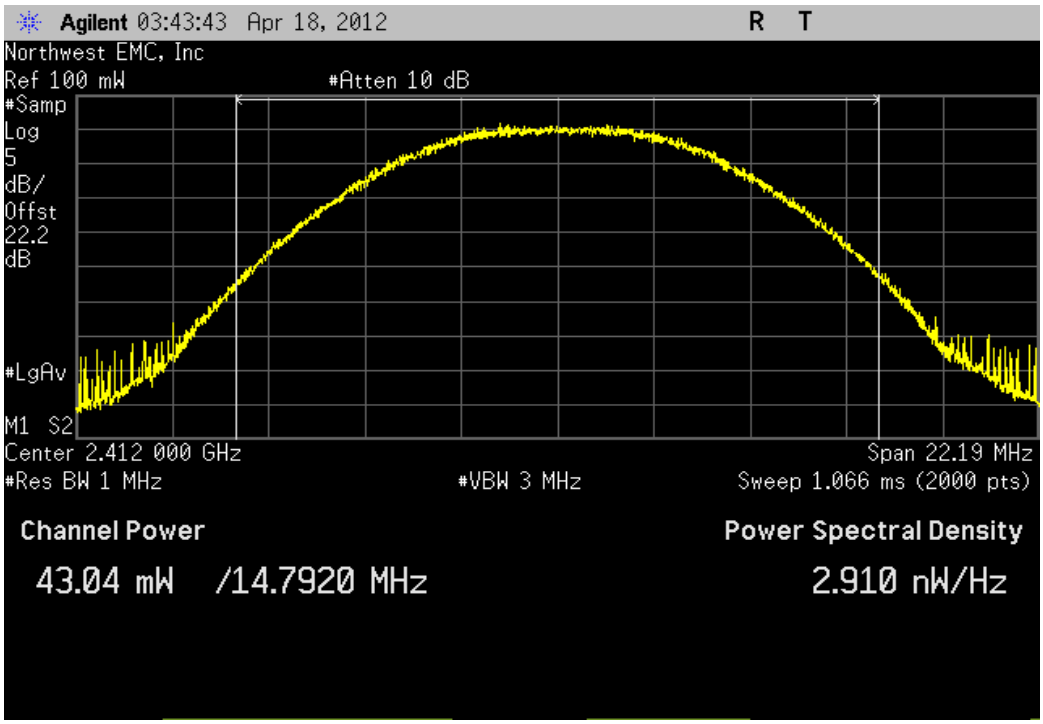
				Value	Limit	Result
				54.121 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
				Value	Limit	Result
				55.965 mW	< 1 W	Pass

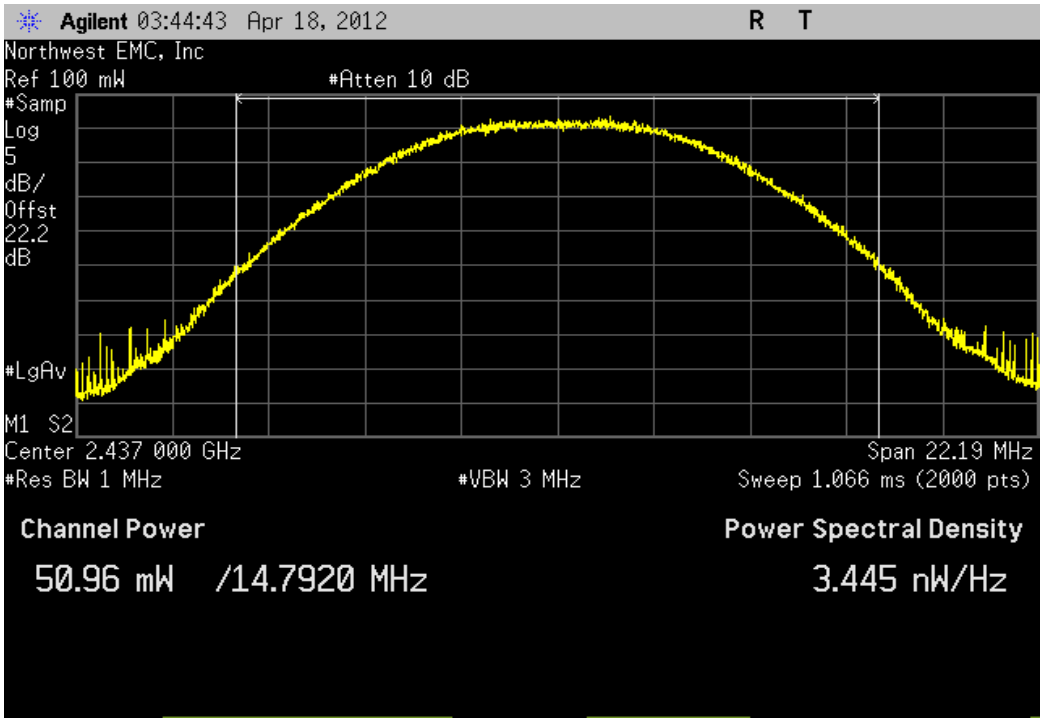


2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz						
				Value	Limit	Result
				43.045 mW	< 1 W	Pass

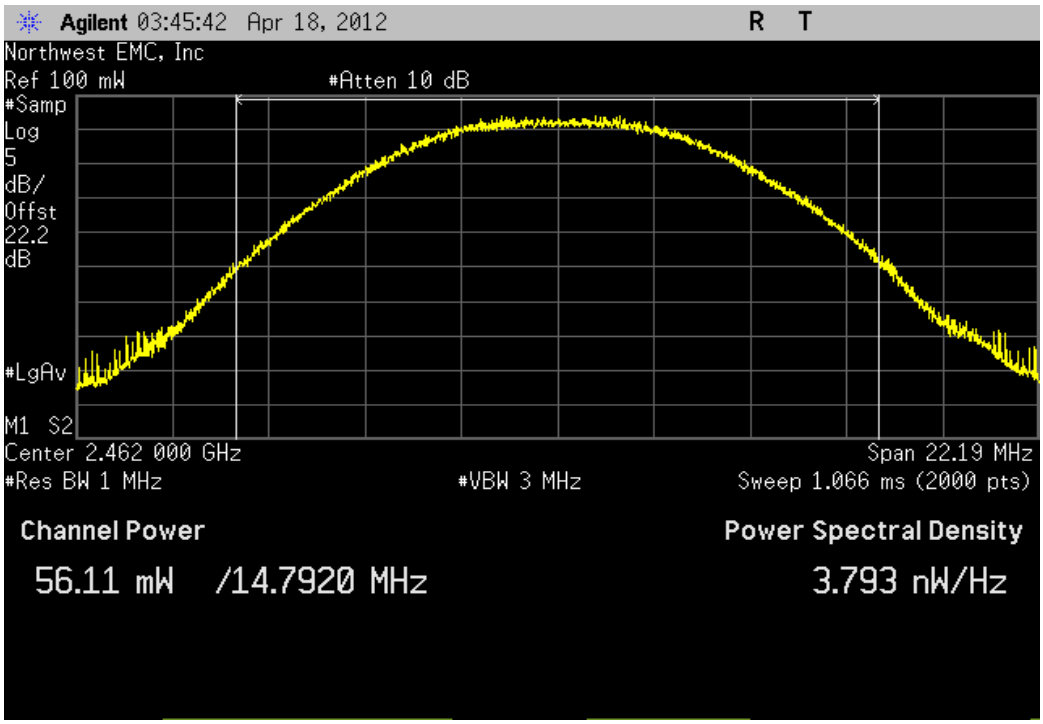


Output Power

2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
				Value	Limit	Result
				50.962 mW	< 1 W	Pass

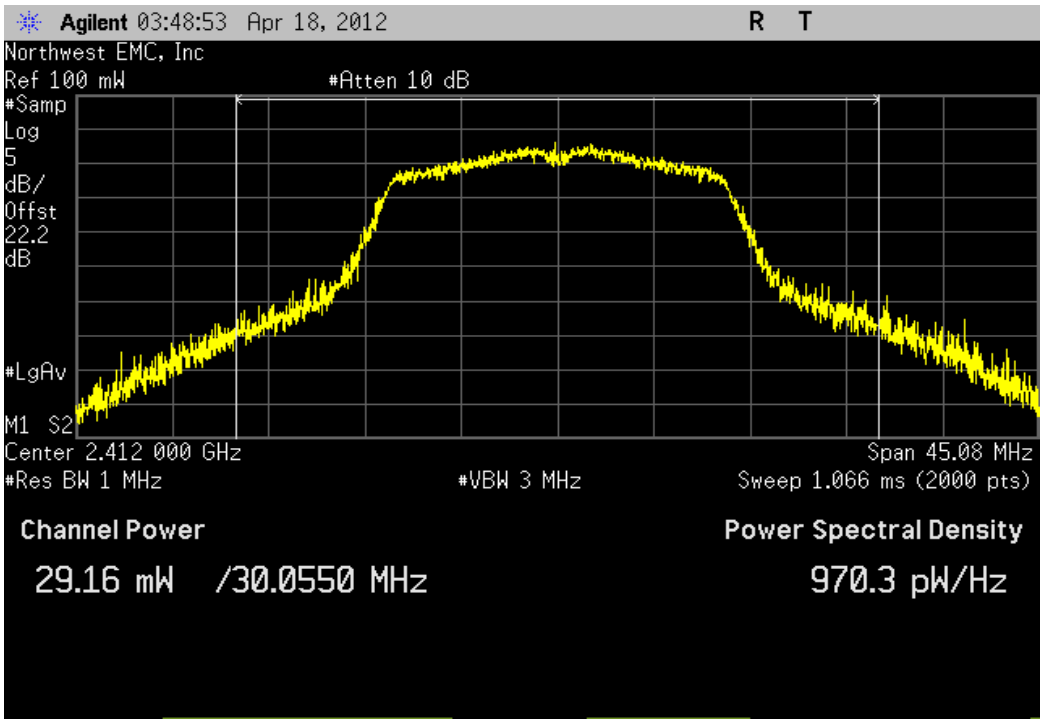


2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz						
				Value	Limit	Result
				56.112 mW	< 1 W	Pass



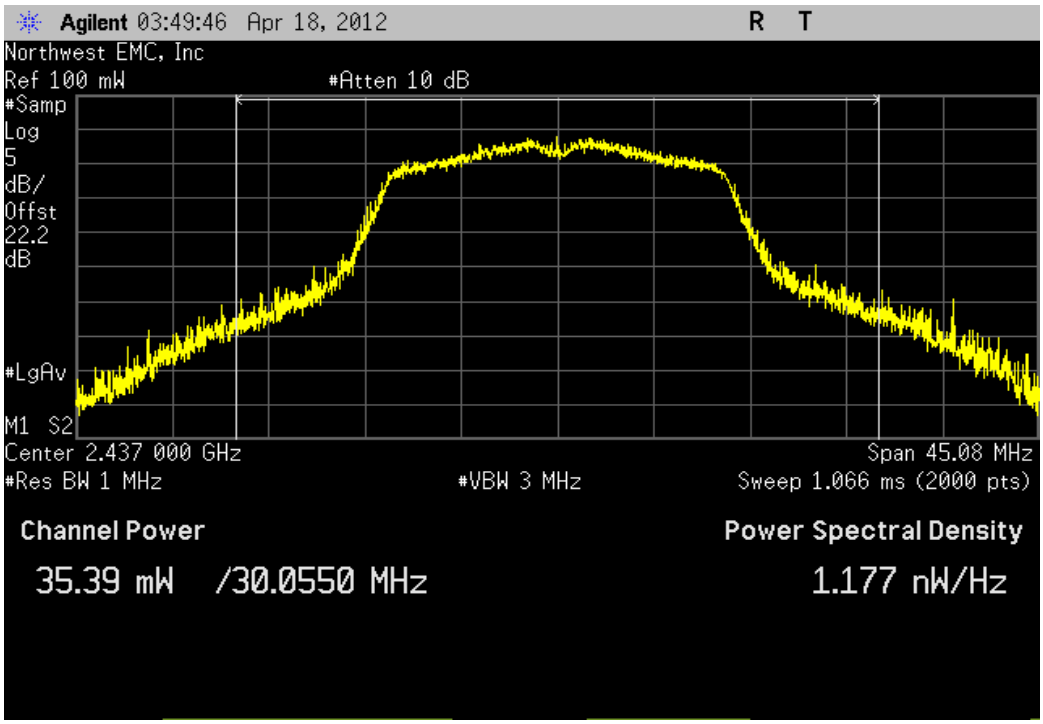
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				29.163 mW	< 1 W	Pass

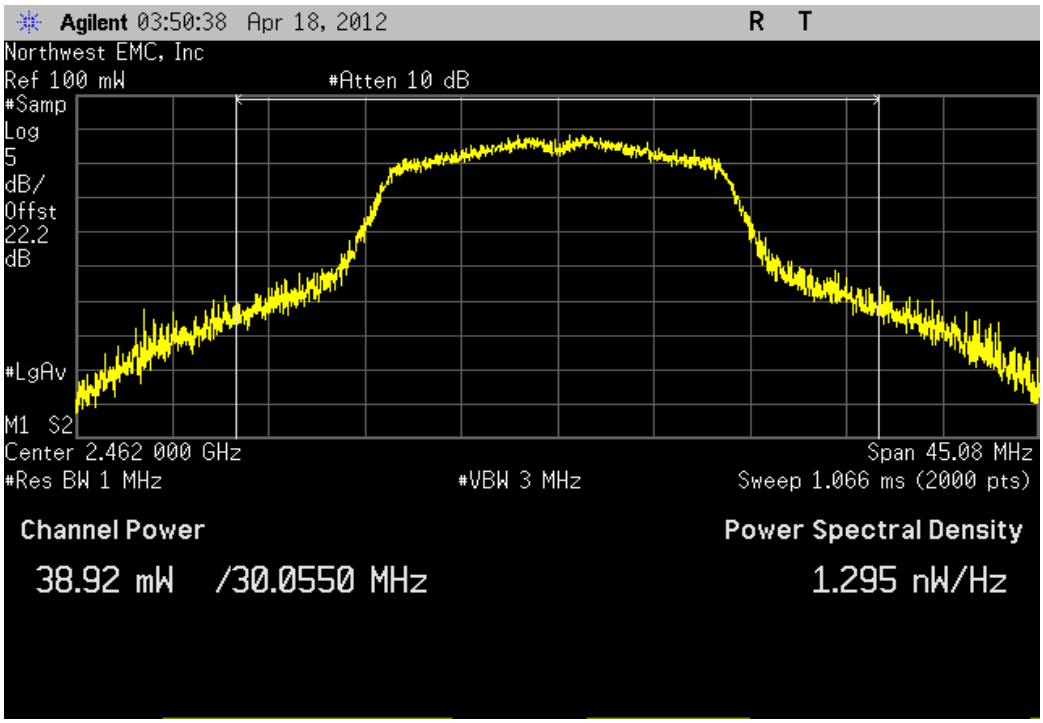


2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz

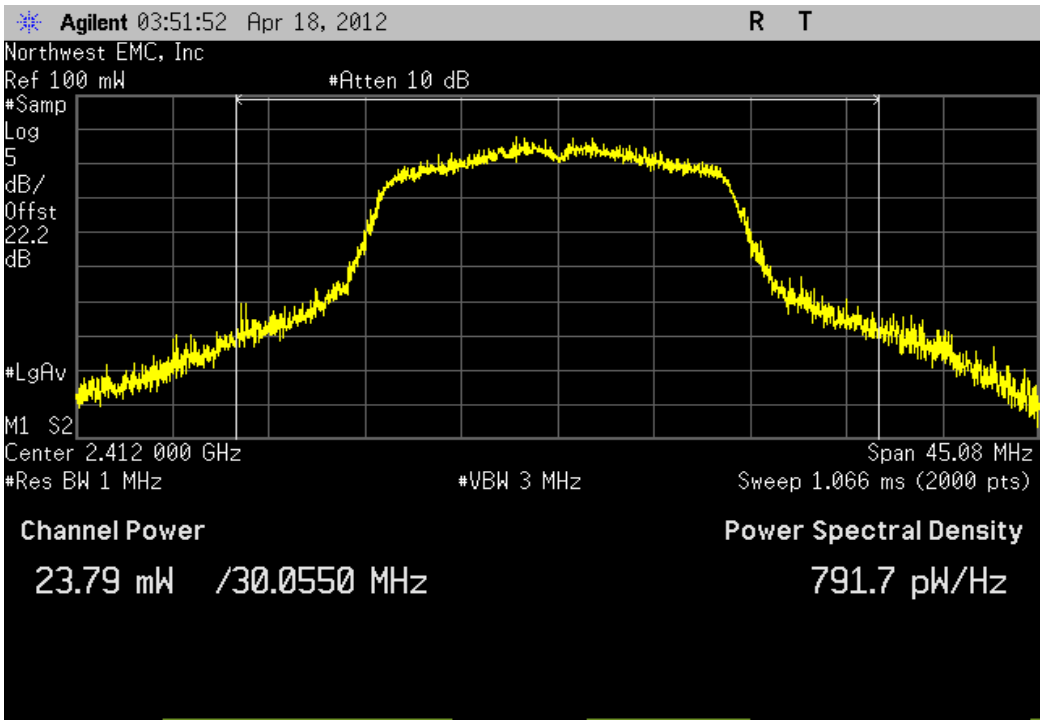
				Value	Limit	Result
				35.39 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
				Value	Limit	Result
				38.92 mW	< 1 W	Pass

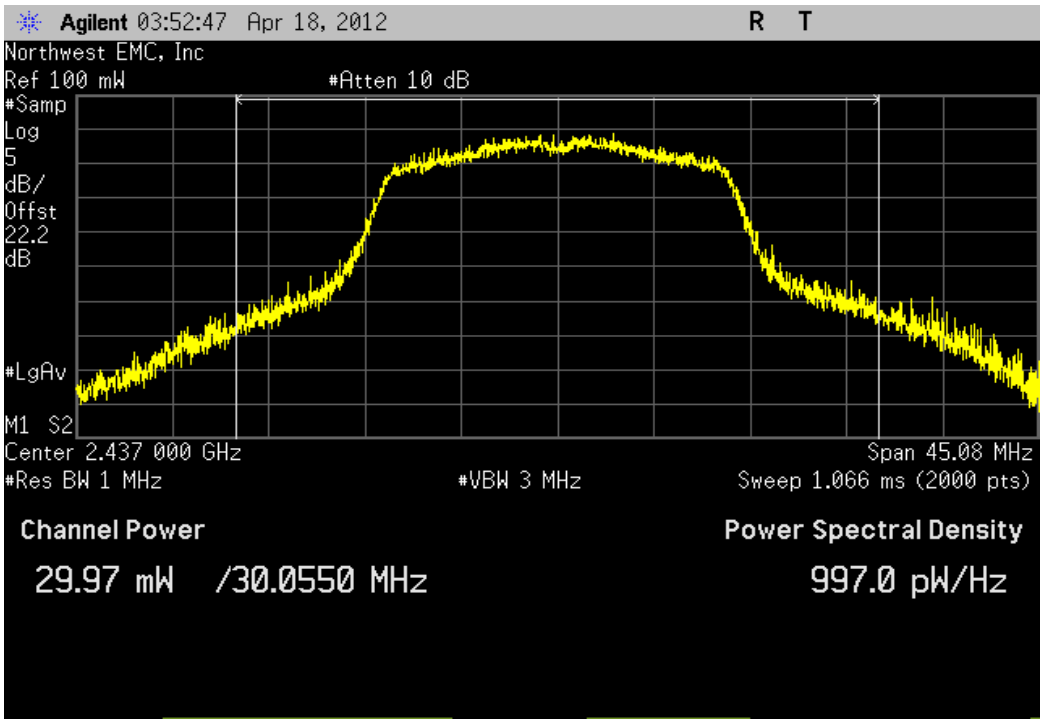


2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz						
				Value	Limit	Result
				23.795 mW	< 1 W	Pass



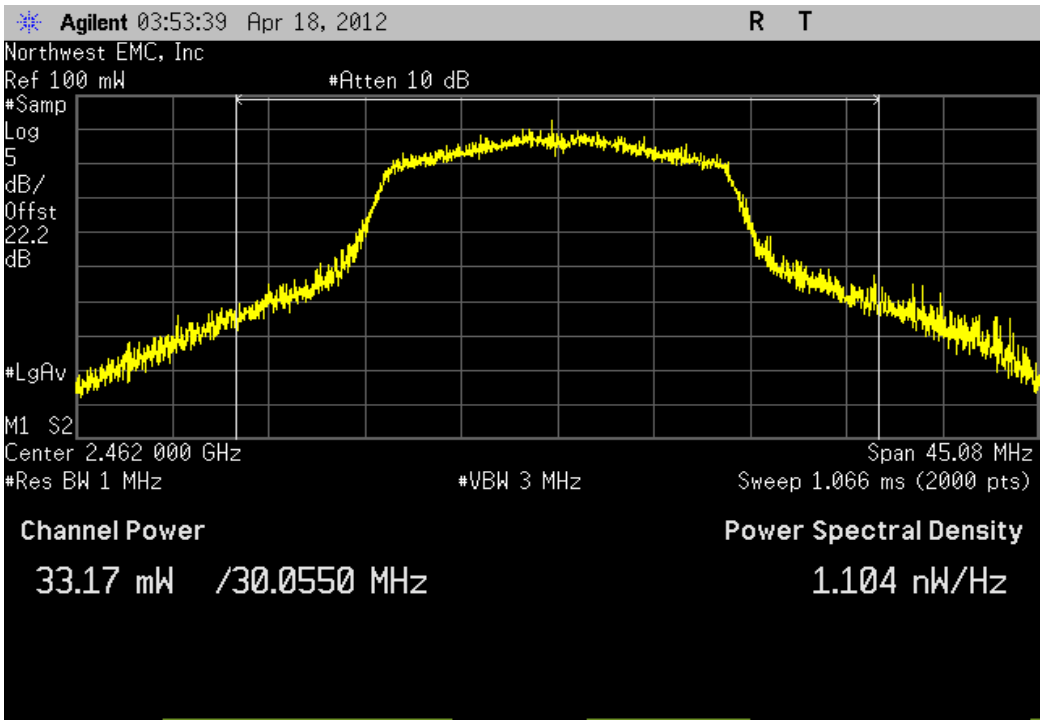
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz

				Value	Limit	Result
				29.965 mW	< 1 W	Pass



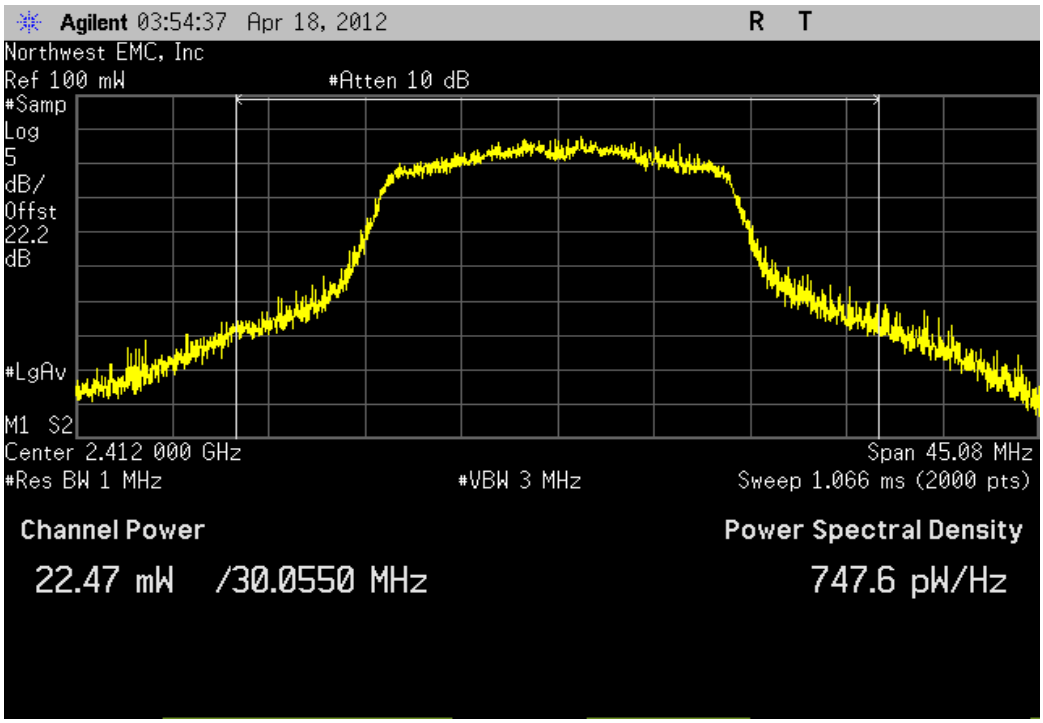
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				33.169 mW	< 1 W	Pass



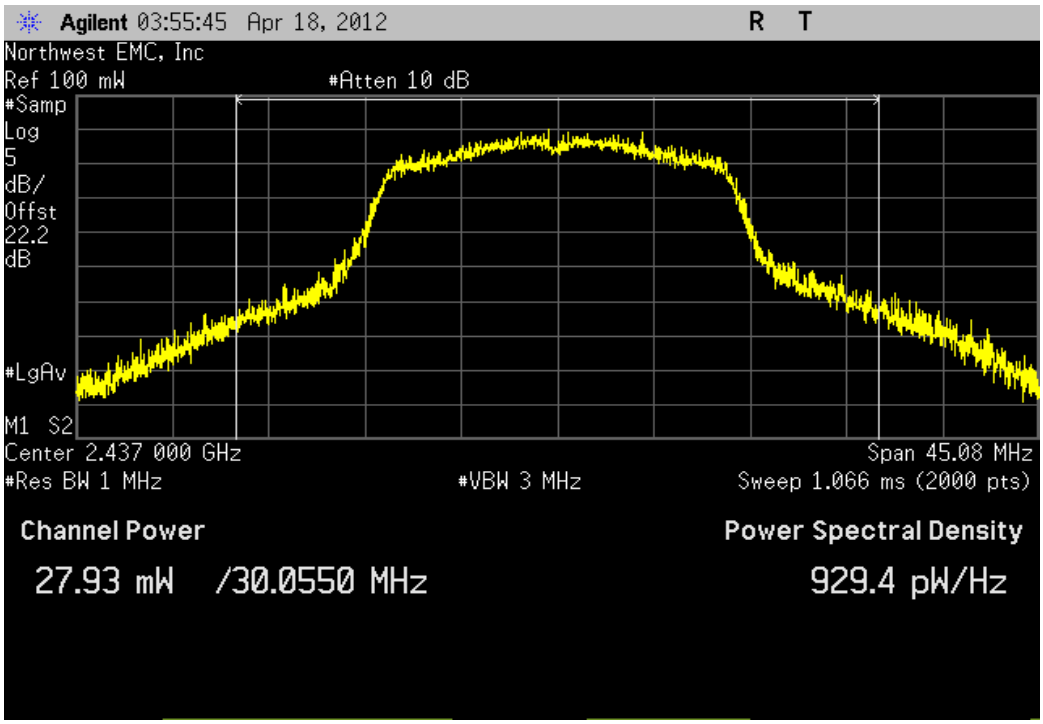
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				22.47 mW	< 1 W	Pass



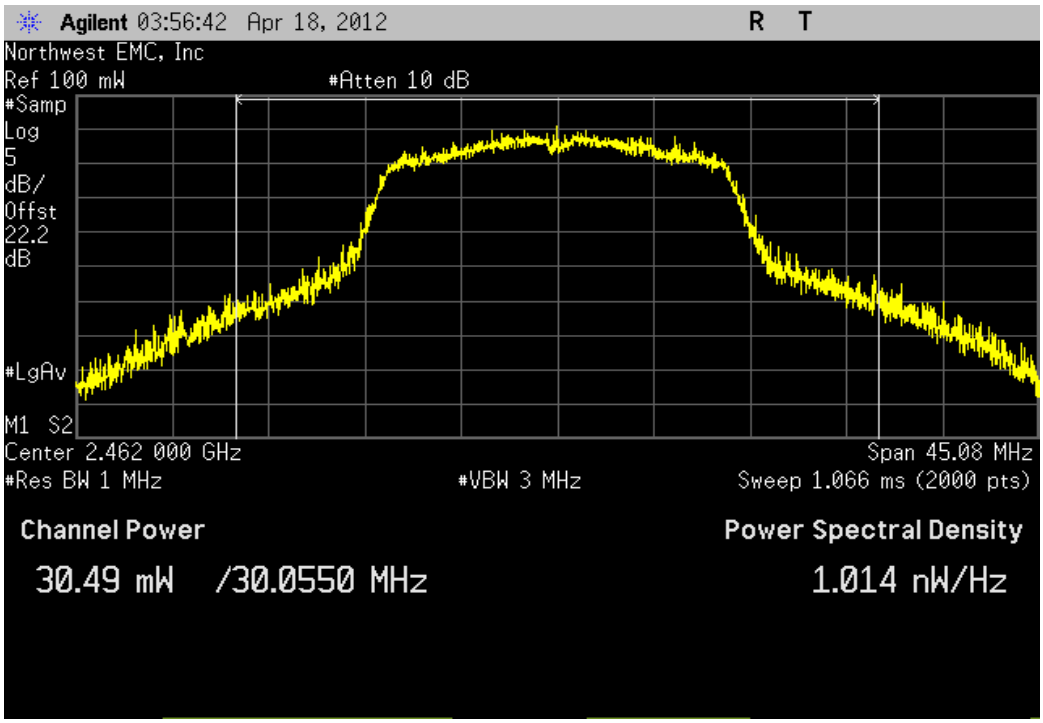
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz

				Value	Limit	Result
				27.932 mW	< 1 W	Pass



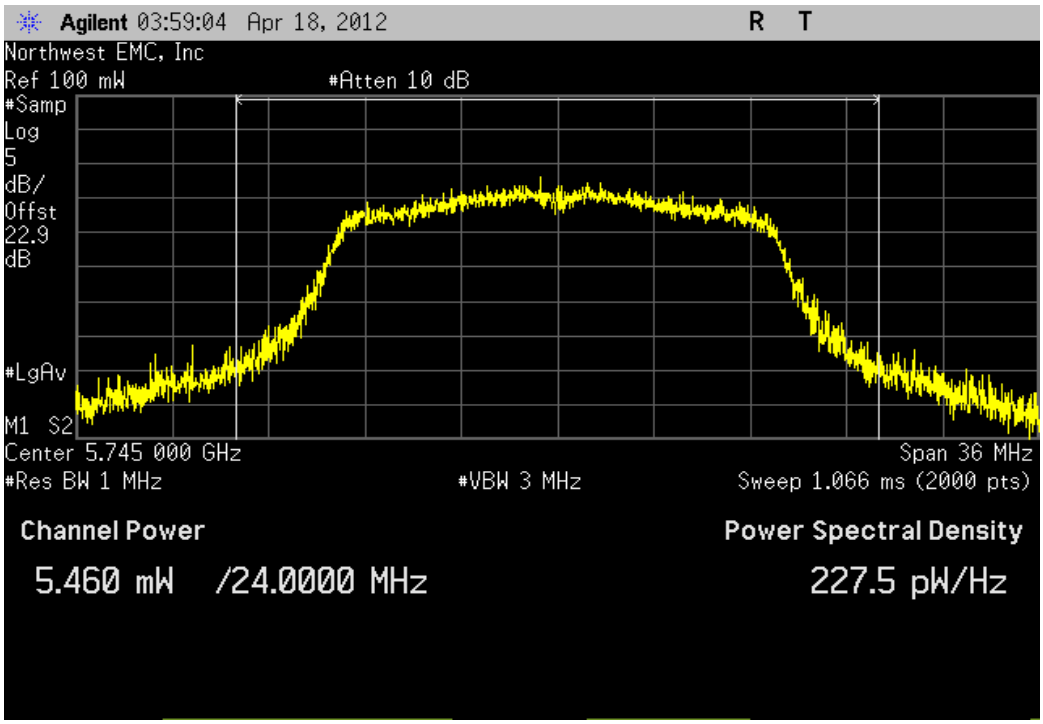
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				30.489 mW	< 1 W	Pass



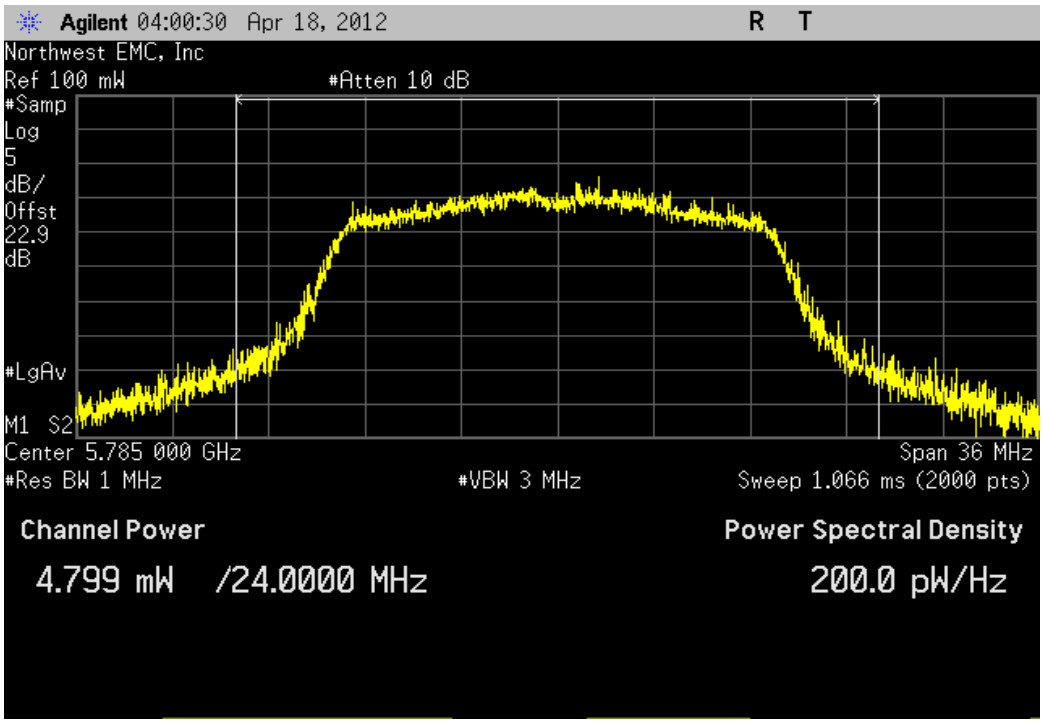
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz

				Value	Limit	Result
				5.46 mW	< 1 W	Pass



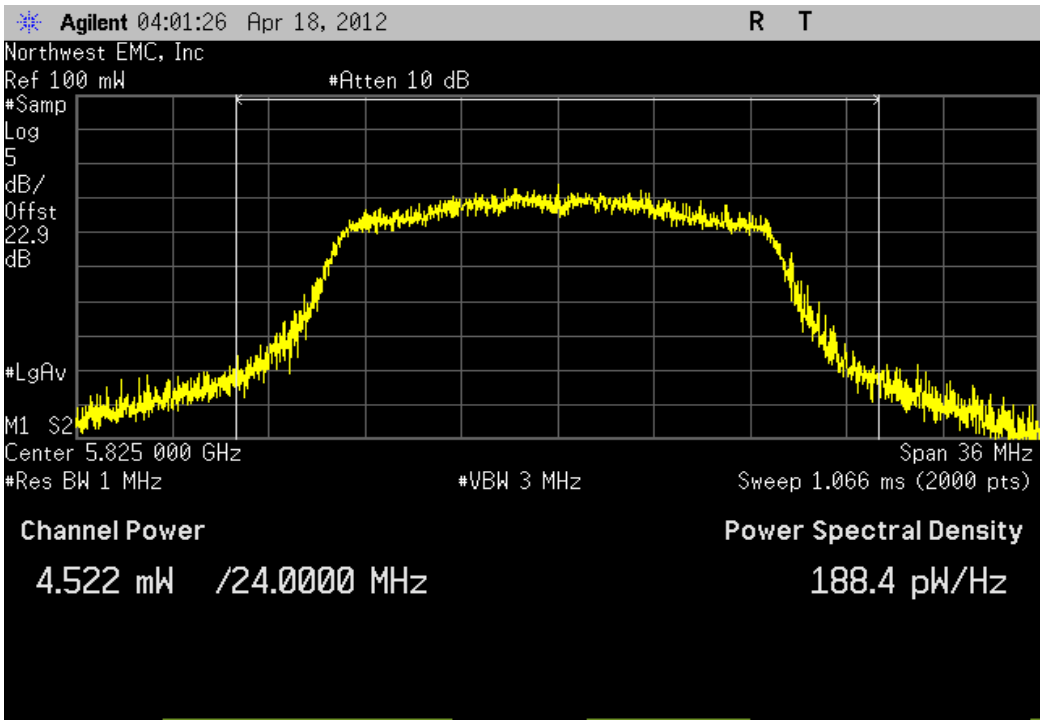
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz

				Value	Limit	Result
				4.799 mW	< 1 W	Pass



5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz

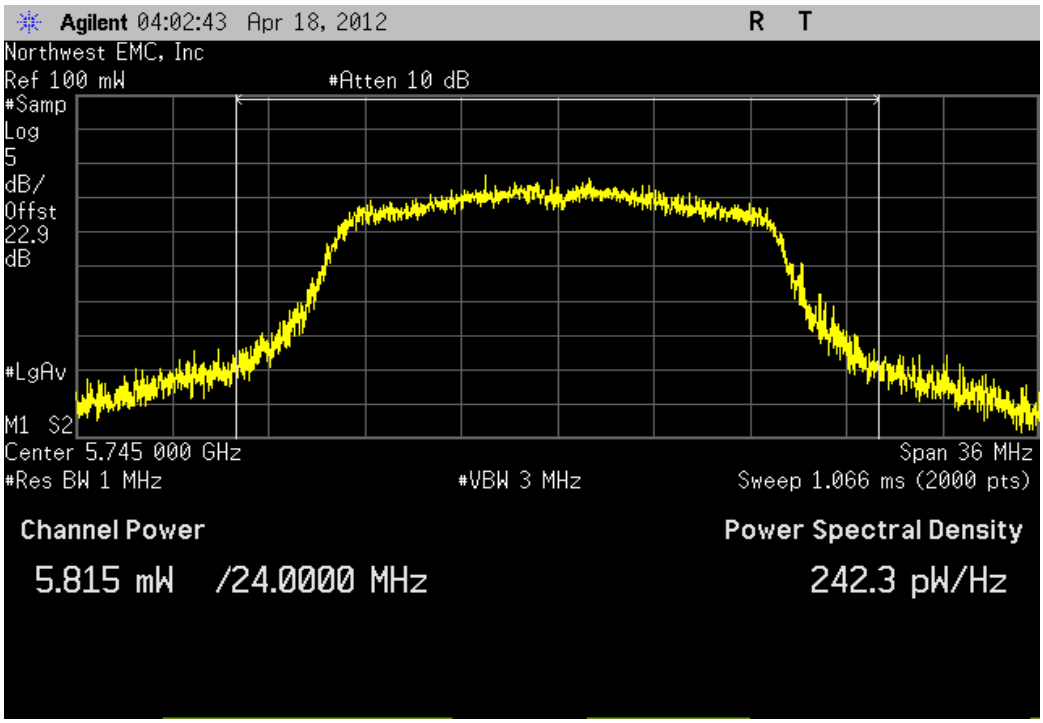
				Value	Limit	Result
				4.522 mW	< 1 W	Pass



Output Power

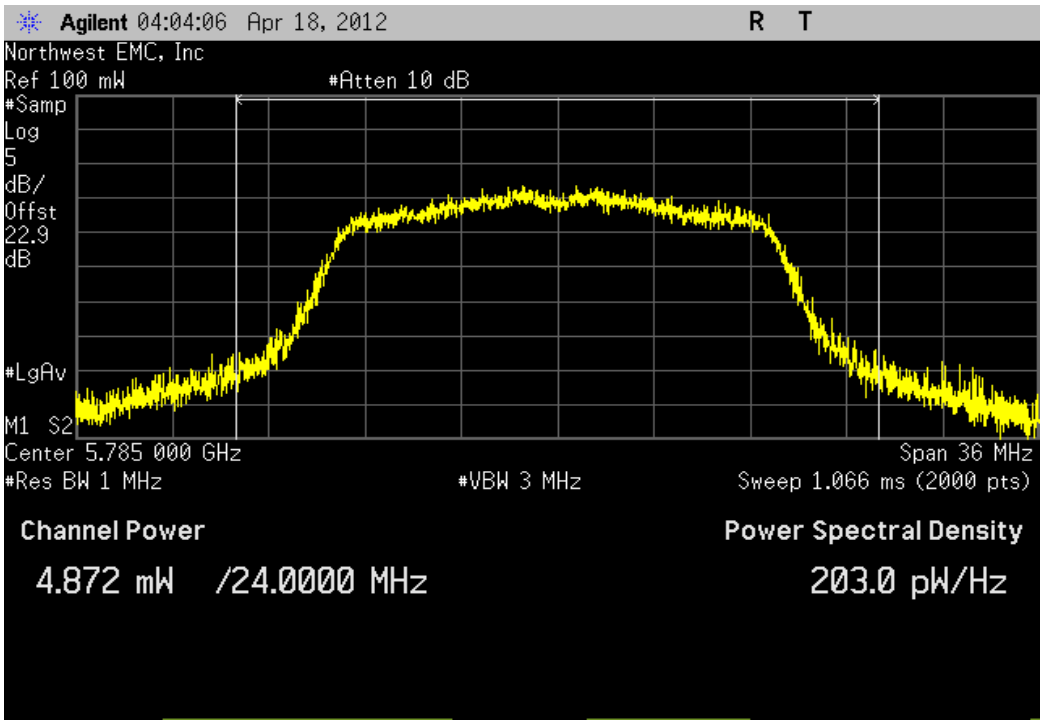
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz

				Value	Limit	Result
				5.815 mW	< 1 W	Pass



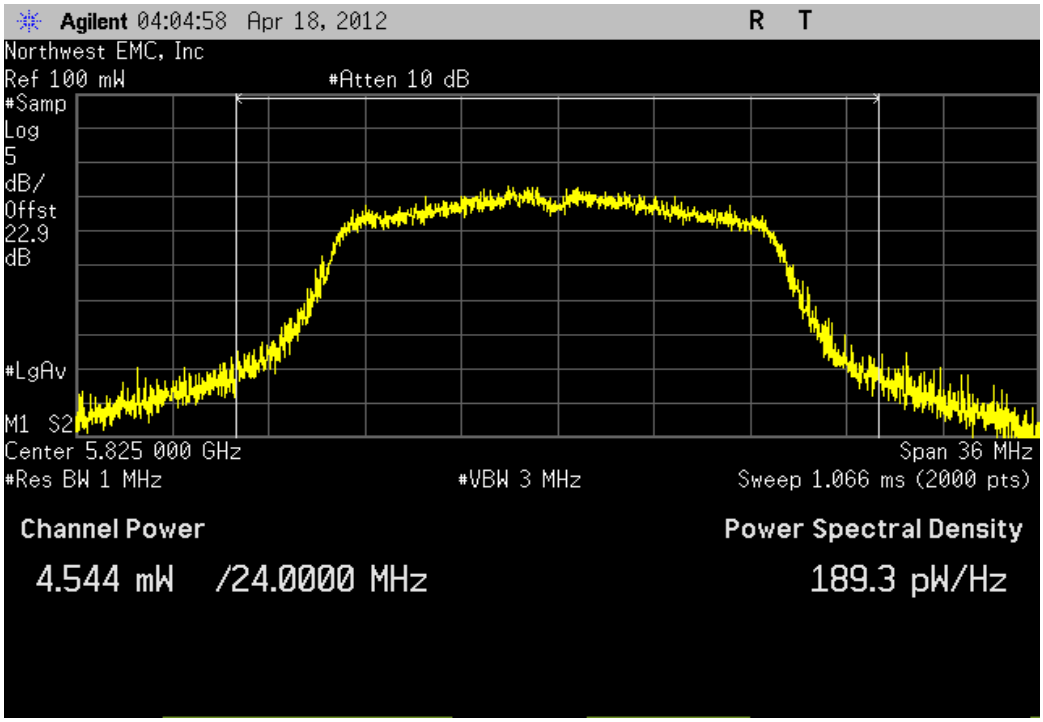
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz

				Value	Limit	Result
				4.872 mW	< 1 W	Pass



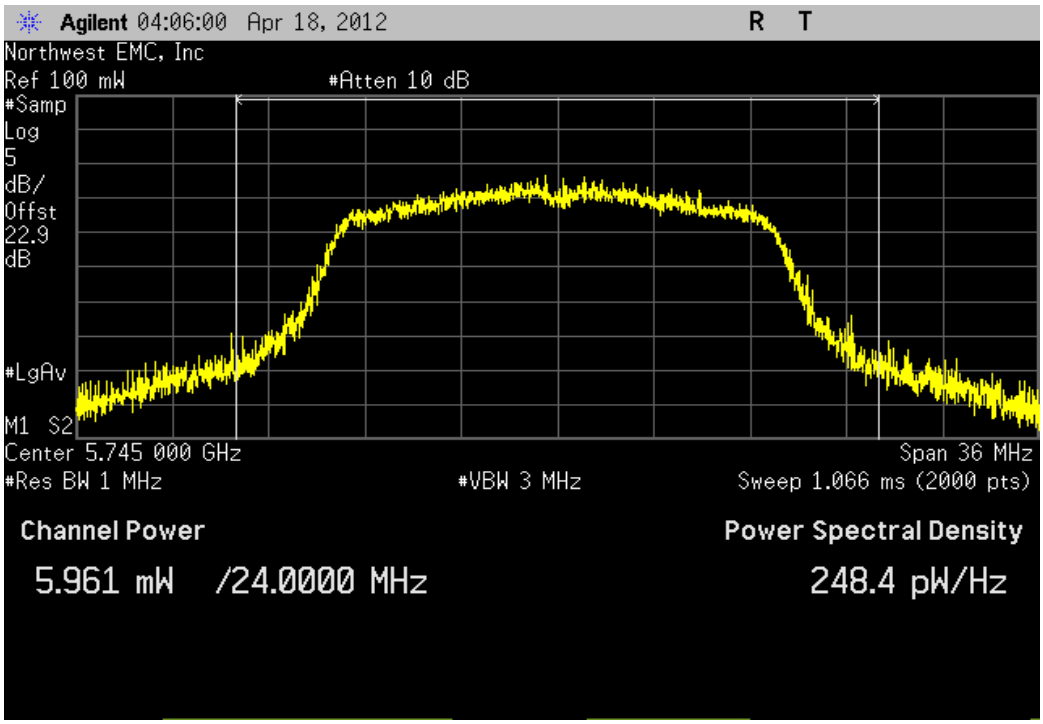
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz

				Value	Limit	Result
				4.544 mW	< 1 W	Pass



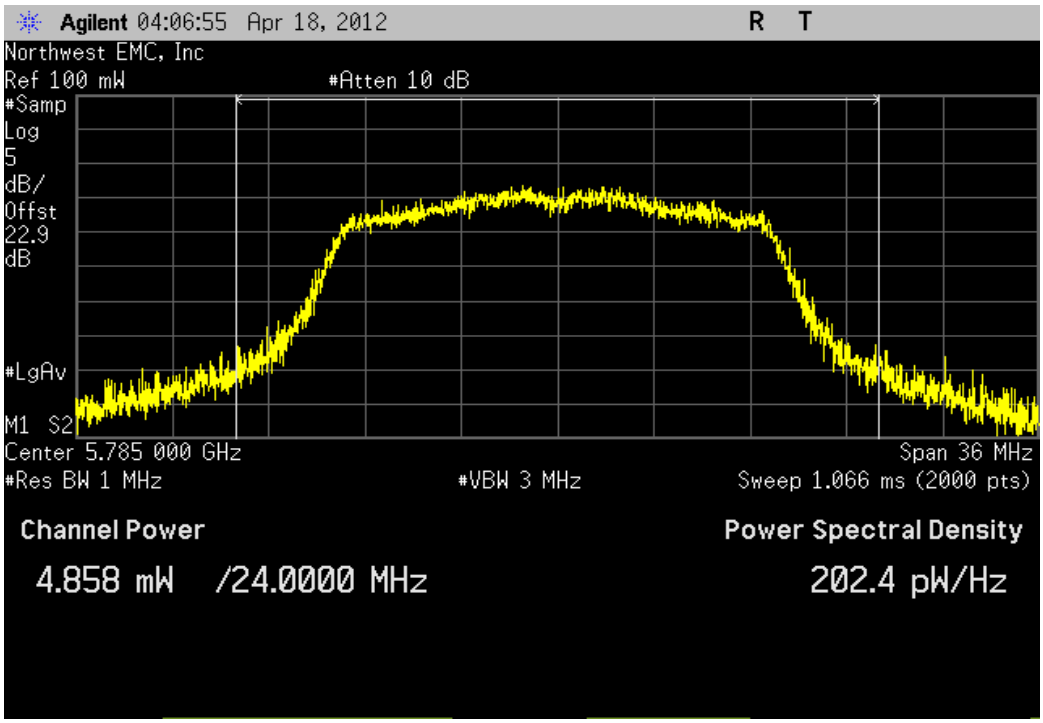
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz

				Value	Limit	Result
				5.961 mW	< 1 W	Pass



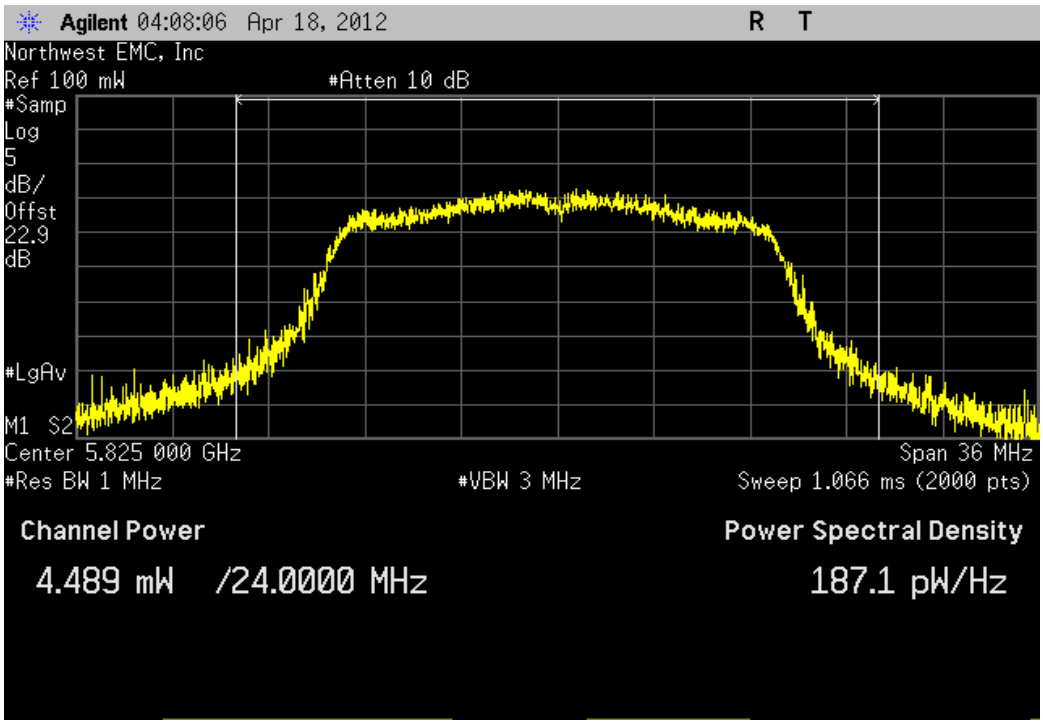
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz

				Value	Limit	Result
				4.858 mW	< 1 W	Pass



5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz

				Value	Limit	Result
				4.489 mW	< 1 W	Pass



Band Edge Compliance

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Signal Generator	Agilent	E8257D	TGU	2/1/2012	12
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	6/2/2011	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	10/12/2011	12
Spectrum Analyzer	Agilent	E4446A	AAY	1/9/2012	12

MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in the ISM band. The channels closest to the band edges were selected. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the required data rates available in 802.11(a)/(b)/(g).

The spectrum was scanned across each band edge from 30 MHz below the band edge to 30 MHz above the band edge.

Band Edge Compliance

EUT:	RAD7CA			**Work Order:**	MASI0095
Serial Number:	34996 Rev C			**Date:**	04/18/12
Customer:	Masimo Corporation			**Temperature:**	22.84 C°C
Attendees:	None			**Humidity:**	38%
Project:	None			**Barometric Pres.:**	1014.4
Tested by:	Mark Baytan	**Power:**	110VAC/60Hz	**Job Site:**	OC07

TEST SPECIFICATIONS	Test Method
FCC 15.247:2012	ANSI C63.10:2009

COMMENTS

Power Setting = 99. Port 2

DEVIATIONS FROM TEST STANDARD

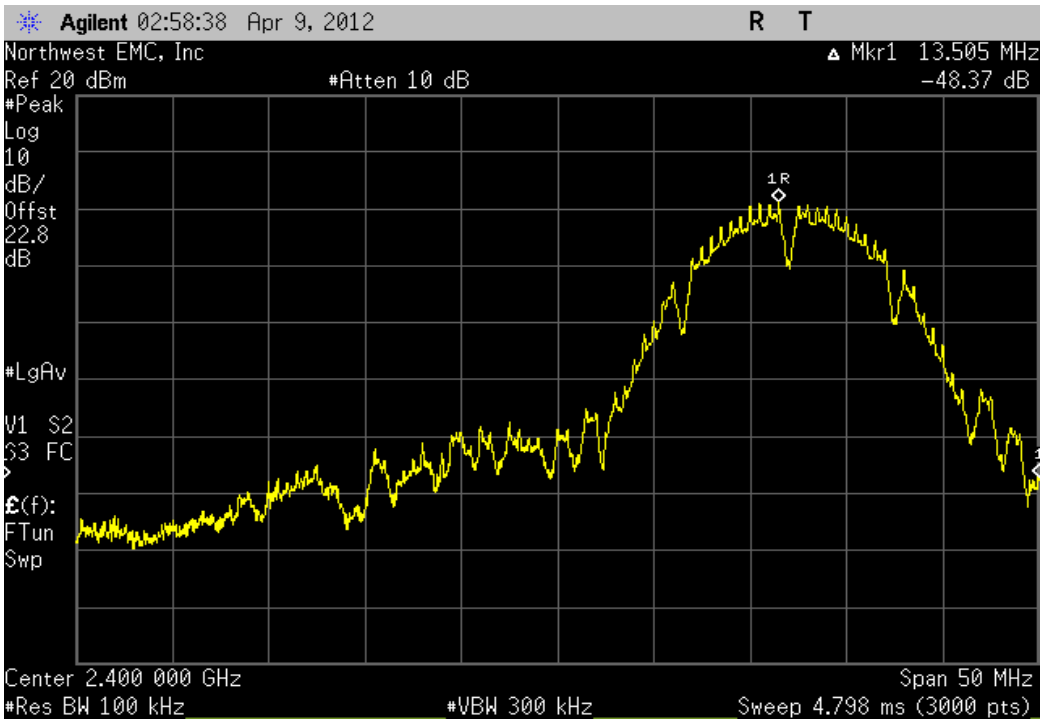
No Deviations

Configuration #	1	Signature

	Value	Limit	Result
2400 MHz - 2483.5 MHz Band			
802.11(b) 1 Mbps			
Low Channel 1, 2412 MHz	-48.37 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	-47.36 dBc	≤ -20 dBc	Pass
802.11(b) 11 Mbps			
Low Channel 1, 2412 MHz	-43.76 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	-48.64 dBc	≤ -20 dBc	Pass
802.11(g) 6 Mbps			
Low Channel 1, 2412 MHz	-26.98 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	-34.49 dBc	≤ -20 dBc	Pass
802.11(g) 36 Mbps			
Low Channel 1, 2412 MHz	-27.12 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	-34.43 dBc	≤ -20 dBc	Pass
802.11(g) 54 Mbps			
Low Channel 1, 2412 MHz	-27.54 dBc	≤ -20 dBc	Pass
High Channel 11, 2462 MHz	-34.36 dBc	≤ -20 dBc	Pass
5725 MHz - 5850 MHz Band			
802.11(a) 6 Mbps			
Low Channel 149, 5745 MHz	-37.95 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	-40.48 dBc	≤ -20 dBc	Pass
802.11(a) 36 Mbps			
Low Channel 149, 5745 MHz	-37.89 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	-40.27 dBc	≤ -20 dBc	Pass
802.11(a) 54 Mbps			
Low Channel 149, 5745 MHz	-38.13 dBc	≤ -20 dBc	Pass
High Channel 165, 5825 MHz	-41.2 dBc	≤ -20 dBc	Pass

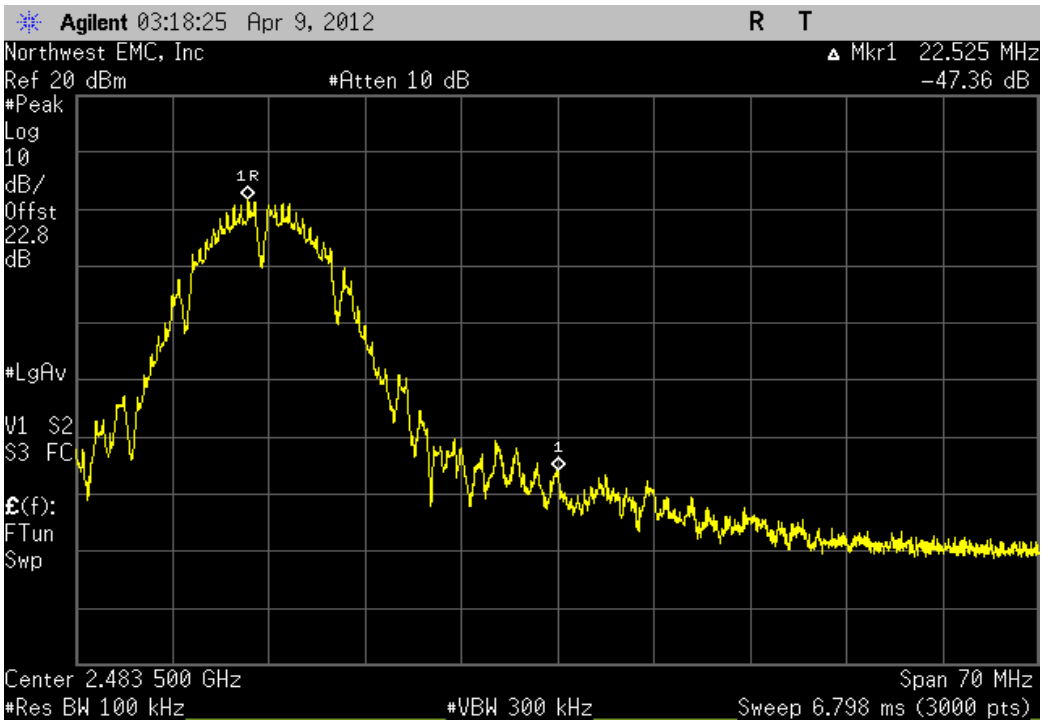
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
-48.37 dBc	≤ -20 dBc	Pass



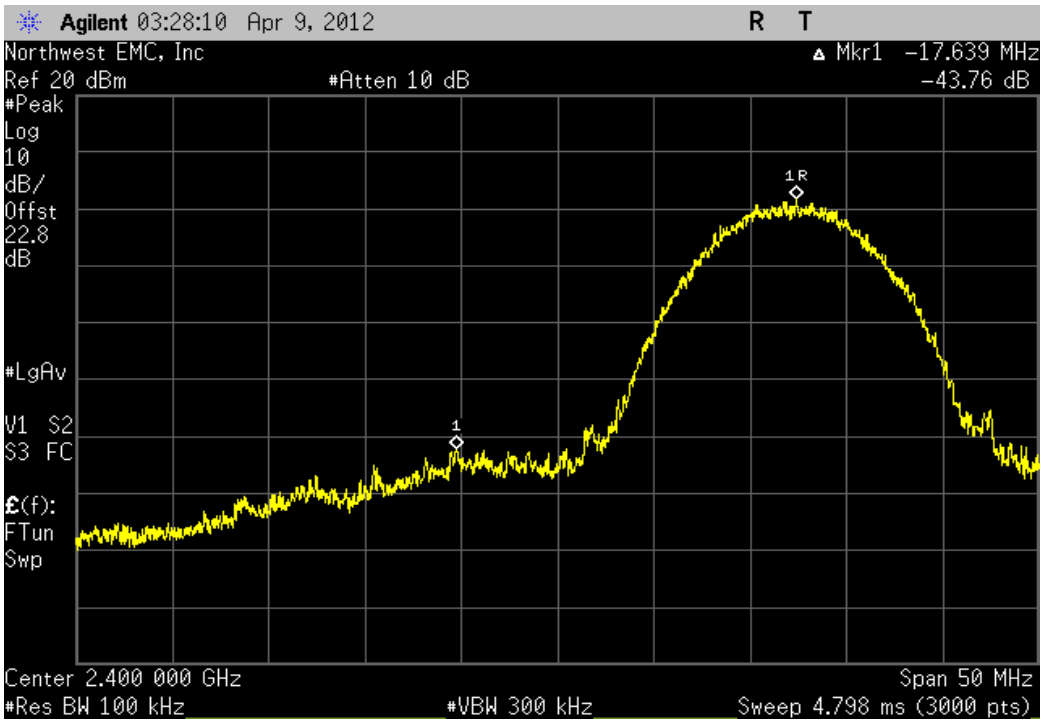
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
-47.36 dBc	≤ -20 dBc	Pass



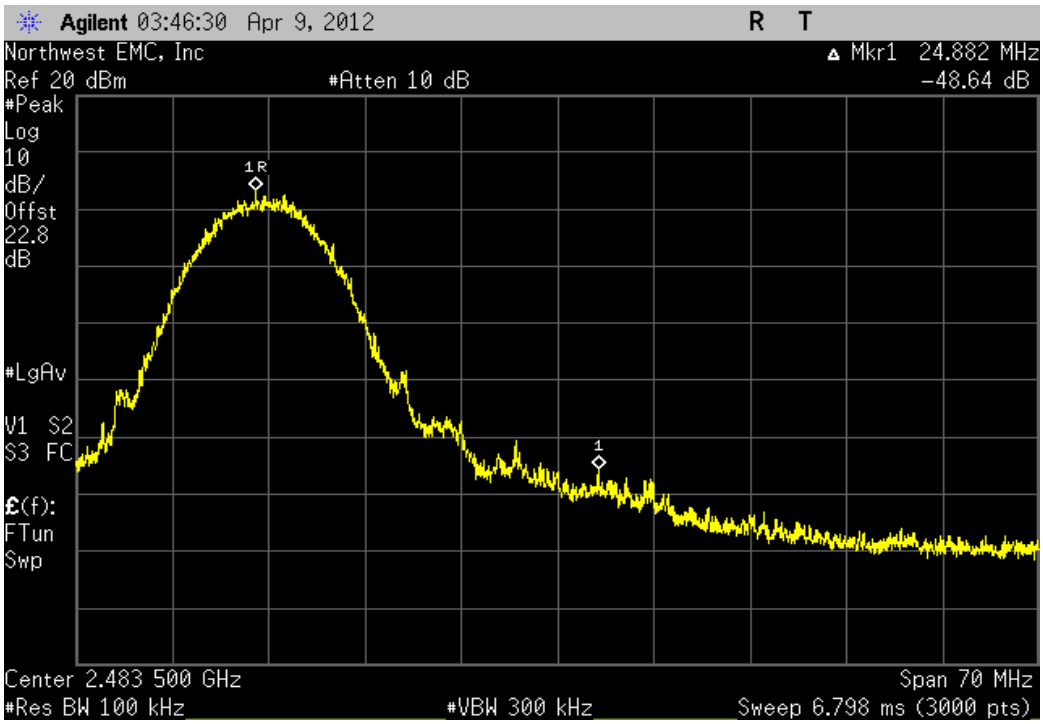
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				-43.76 dBc	≤ -20 dBc	Pass



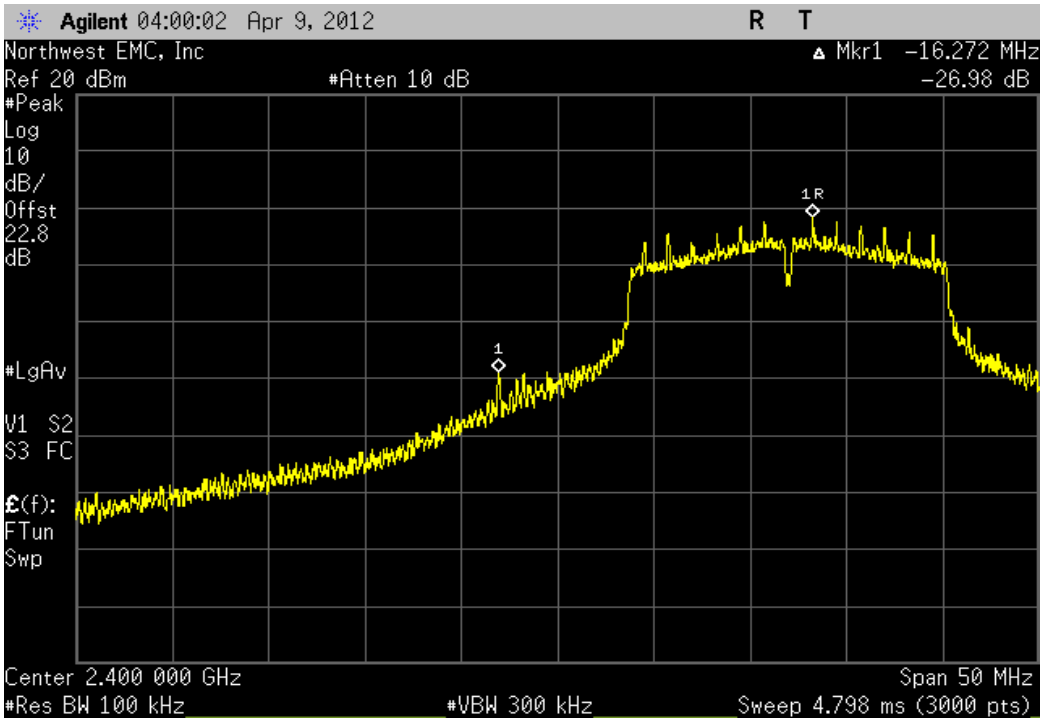
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				-48.64 dBc	≤ -20 dBc	Pass



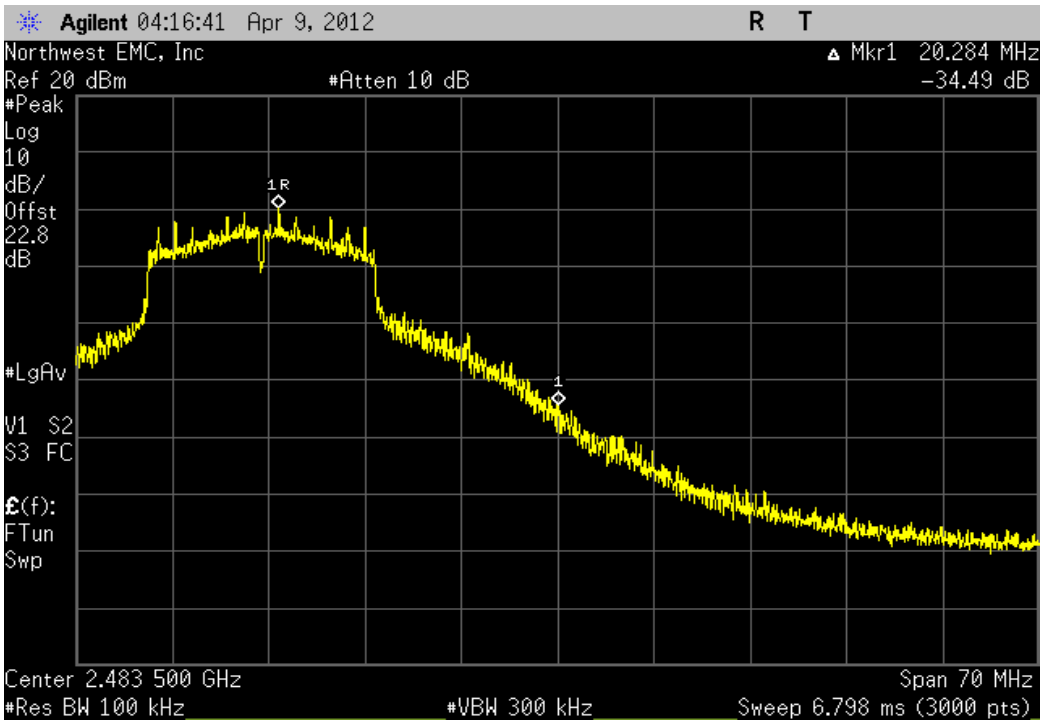
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz

Value	Limit	Result
-26.98 dBc	≤ -20 dBc	Pass



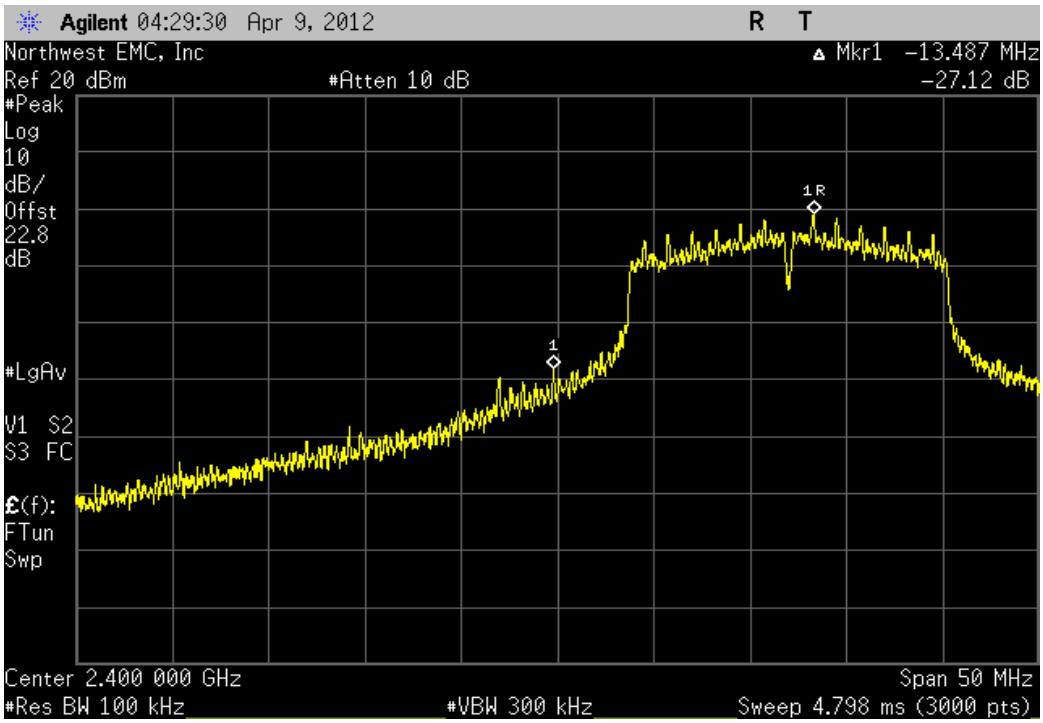
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz

Value	Limit	Result
-34.49 dBc	≤ -20 dBc	Pass



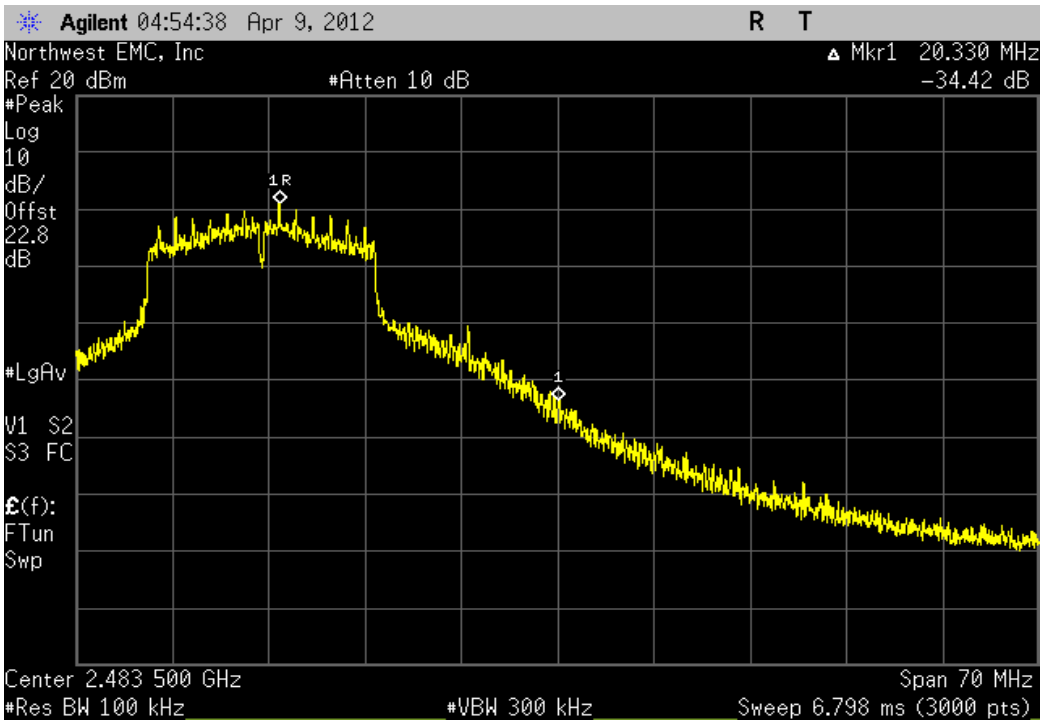
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				-27.12 dBc	≤ -20 dBc	Pass



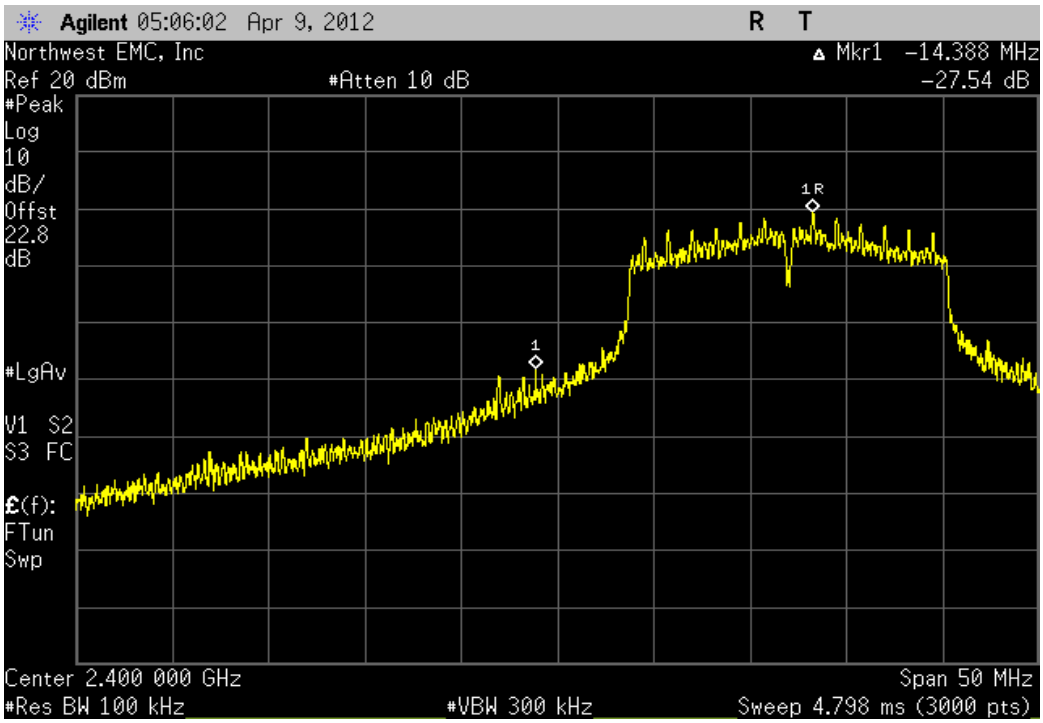
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				-34.43 dBc	≤ -20 dBc	Pass



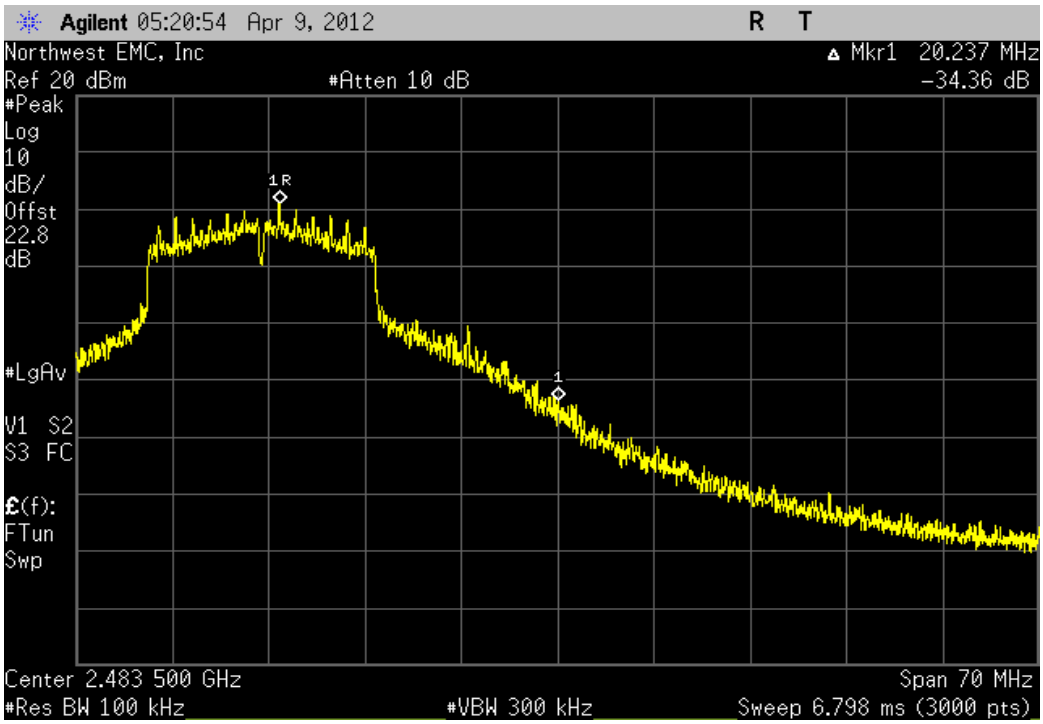
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				-27.54 dBc	≤ -20 dBc	Pass



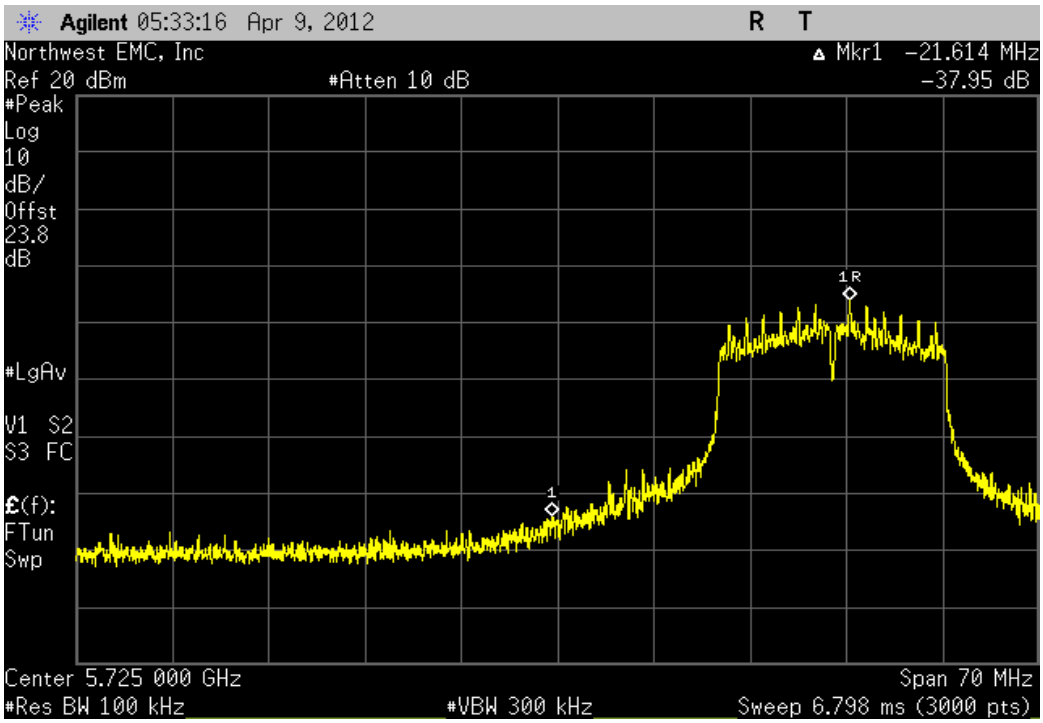
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				-34.36 dBc	≤ -20 dBc	Pass



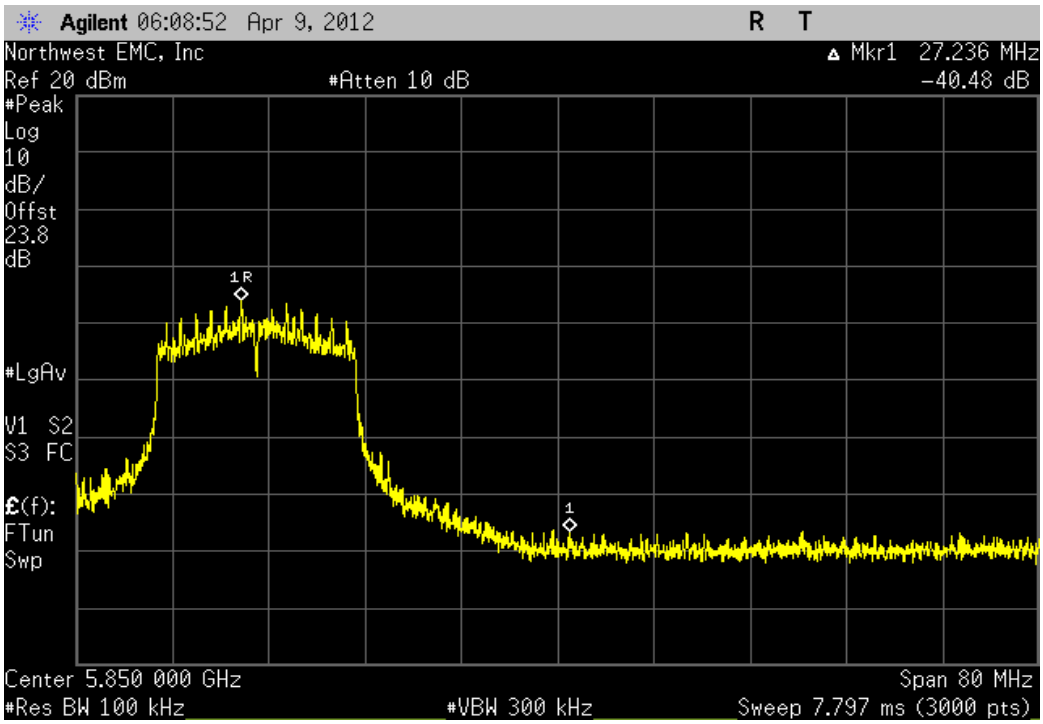
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz

				Value	Limit	Result
				-37.95 dBc	≤ -20 dBc	Pass

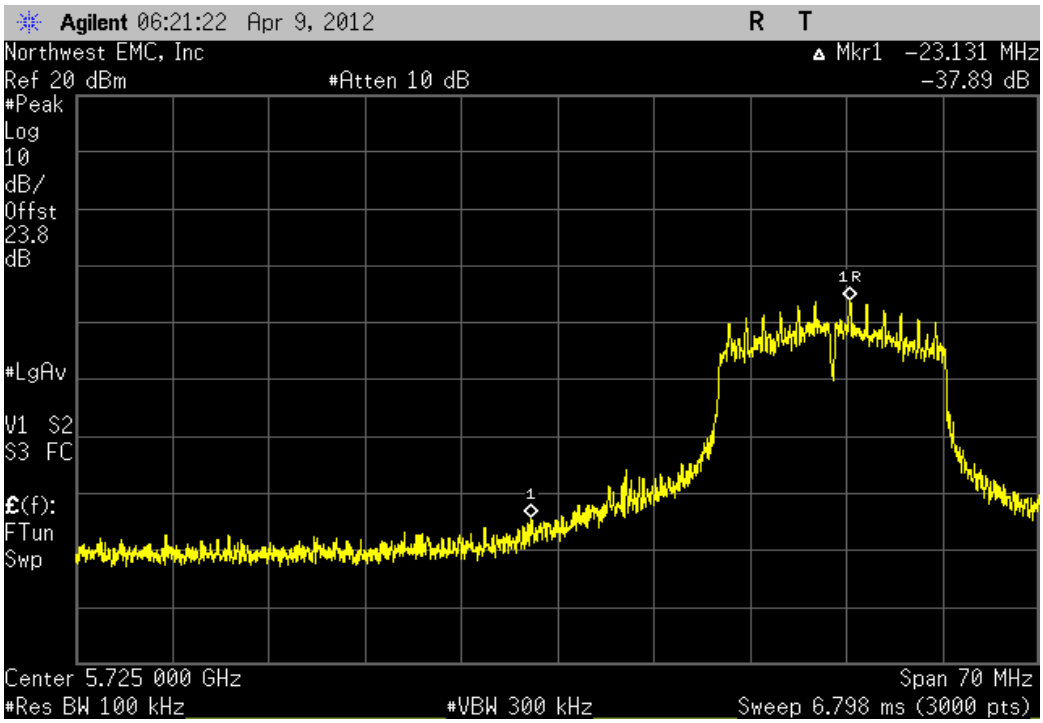


5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz

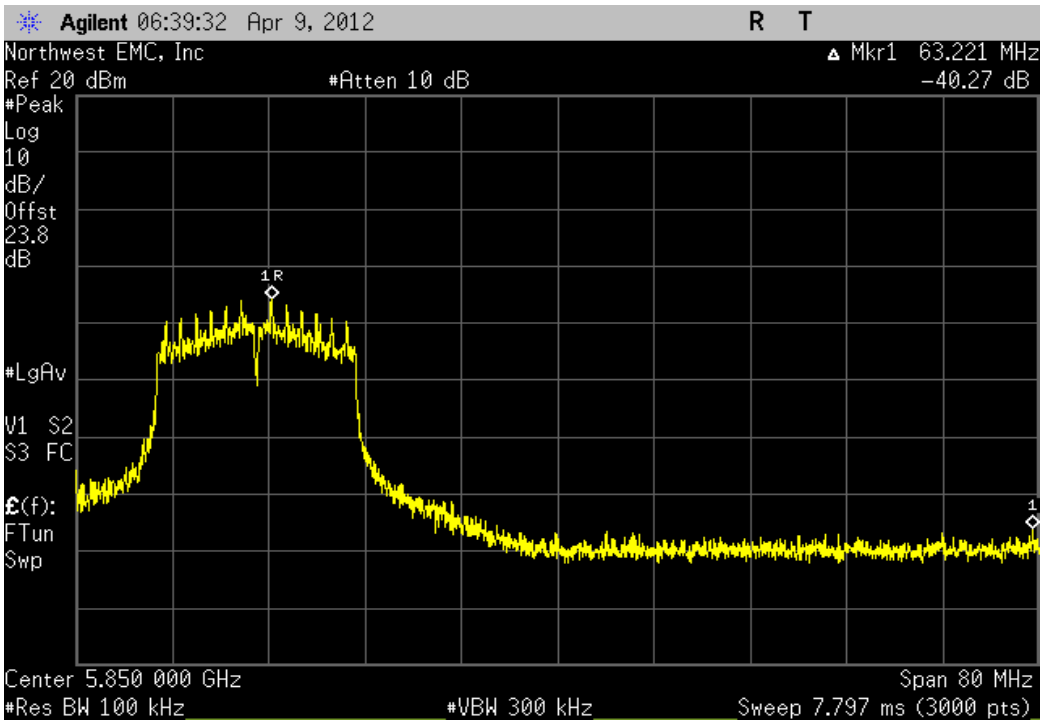
				Value	Limit	Result
				-40.48 dBc	≤ -20 dBc	Pass



5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz						
				Value	Limit	Result
				-37.89 dBc	≤ -20 dBc	Pass

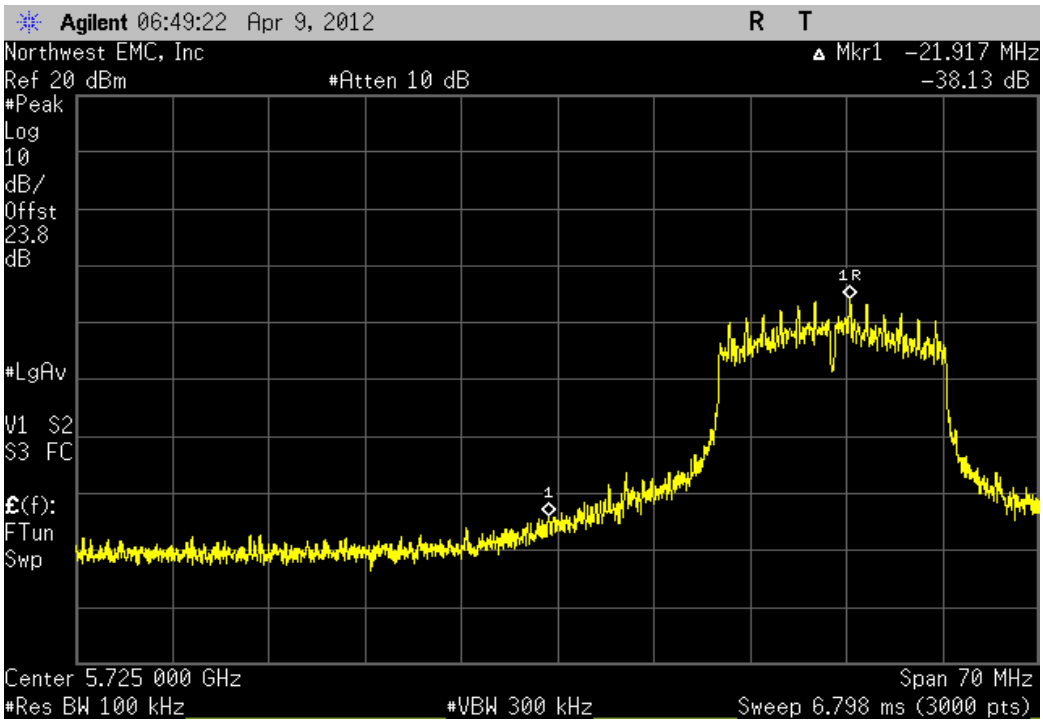


5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz						
				Value	Limit	Result
				-40.27 dBc	≤ -20 dBc	Pass



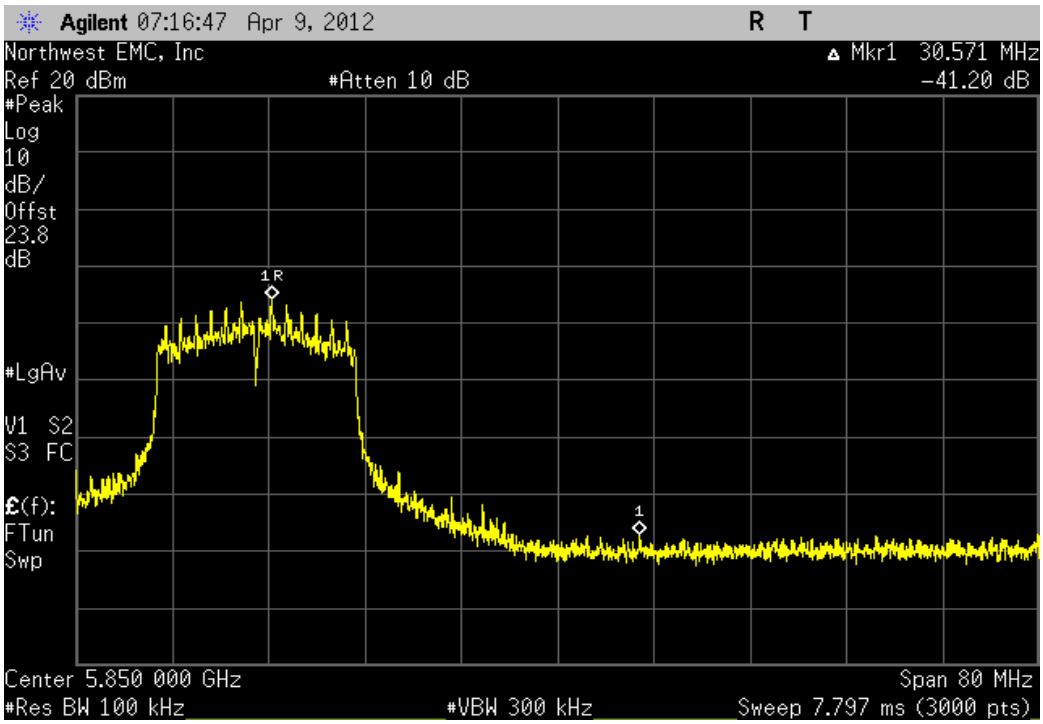
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz

				Value	Limit	Result
				-38.13 dBc	≤ -20 dBc	Pass



5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz

				Value	Limit	Result
				-41.2 dBc	≤ -20 dBc	Pass



Spurious Conducted Emissions

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Signal Generator	Agilent	E8257D	TGU	2/1/2012	12
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	6/2/2011	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	10/12/2011	12
Spectrum Analyzer	Agilent	E4446A	AAY	1/9/2012	12

MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

The spurious RF conducted emissions were measured with the EUT set to low, medium, and high transmit frequencies. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum data rate using direct sequence modulation. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

Spurious Conducted Emissions

EUT:	RAD7CA			**Work Order:**	MASI0095
Serial Number:	34996 Rev C			**Date:**	04/18/12
Customer:	Masimo Corporation			**Temperature:**	22.84 C°C
Attendees:	None			**Humidity:**	38%
Project:	None			**Barometric Pres.:**	1014.4
Tested by:	Mark Baytan	**Power:**	110VAC/60Hz	**Job Site:**	OC07

TEST SPECIFICATIONS	Test Method
FCC 15.247:2012	ANSI C63.10:2009

COMMENTS

Power Setting = 99. Port 2

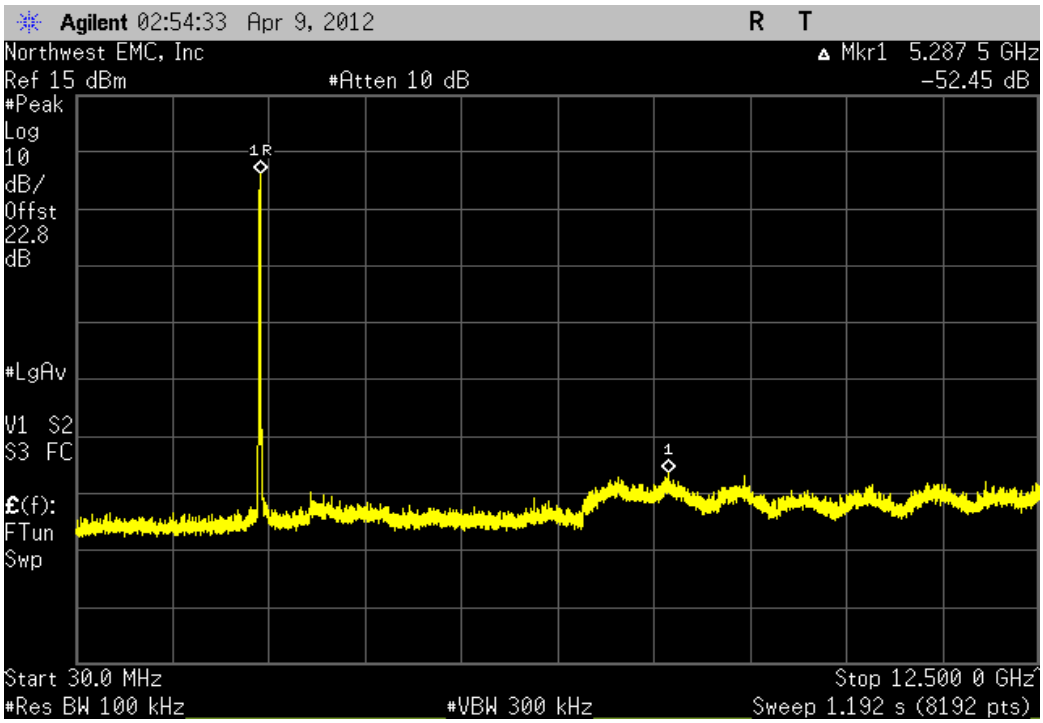
DEVIATIONS FROM TEST STANDARD

No Deivations

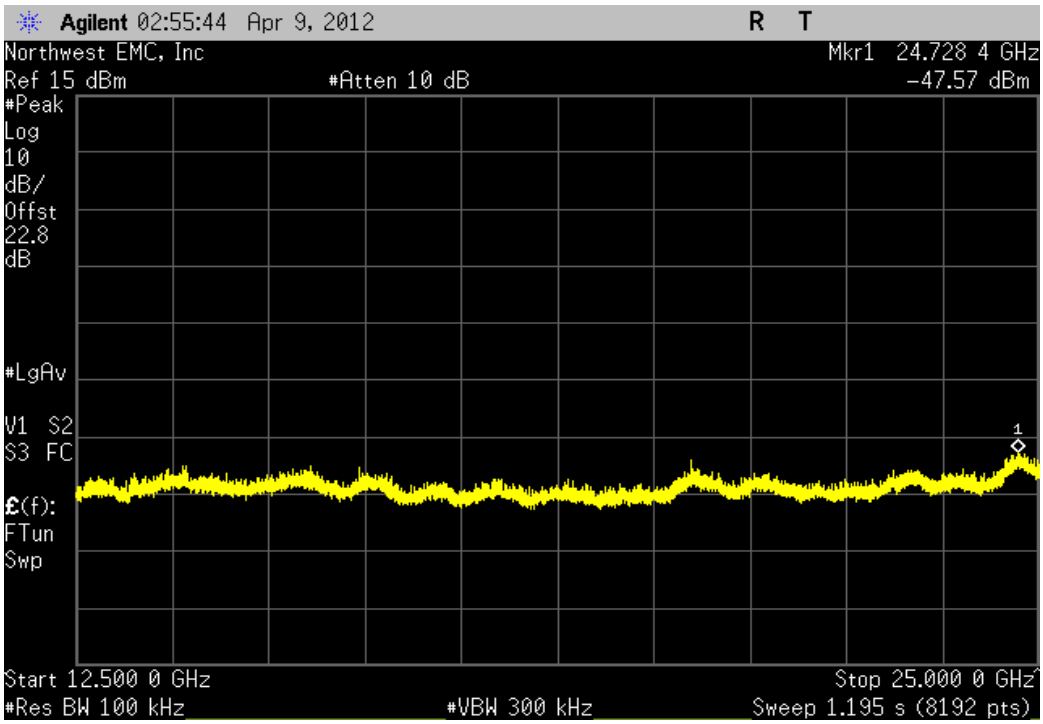
Configuration #	1	Signature

		Frequency Range	Value	Limit	Result
2400 MHz - 2483.5 MHz Band					
	802.11(b) 1 Mbps				
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-52.45 dBc	≤ -20 dBc	Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-48.64 dBc	≤ -20 dBc	Pass
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-53.29 dBc	≤ -20 dBc	Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-49.22 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-52.5 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-48.35 dBc	≤ -20 dBc	Pass
	802.11(b) 11 Mbps				
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-51.95 dBc	≤ -20 dBc	Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-47.4 dBc	≤ -20 dBc	Pass
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-53.25 dBc	≤ -20 dBc	Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-48.52 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-53.34 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-48.11 dBc	≤ -20 dBc	Pass
	802.11(g) 6 Mbps				
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-41.99 dBc	≤ -20 dBc	Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-43.86 dBc	≤ -20 dBc	Pass
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-49.71 dBc	≤ -20 dBc	Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-45.51 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-50.5 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-45.95 dBc	≤ -20 dBc	Pass
	802.11(g) 36 Mbps				
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-40.55 dBc	≤ -20 dBc	Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-45.97 dBc	≤ -20 dBc	Pass
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-52.55 dBc	≤ -20 dBc	Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-48.11 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-52.5 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-47.44 dBc	≤ -20 dBc	Pass
	802.11(g) 54 Mbps				
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-40.69 dBc	≤ -20 dBc	Pass
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-46.5 dBc	≤ -20 dBc	Pass
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-52.79 dBc	≤ -20 dBc	Pass
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-48.16 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-51.73 dBc	≤ -20 dBc	Pass
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-47.21 dBc	≤ -20 dBc	Pass
5725 MHz - 5850 MHz Band					
	802.11(a) 6 Mbps				
	Low Channel 149, 5745 MHz	30 MHz - 12.5 GHz	-34.89 dBc	≤ -20 dBc	Pass
	Low Channel 149, 5745 MHz	12.5 GHz - 25 GHz	-30.8 dBc	≤ -20 dBc	Pass
	Low Channel 149, 5745 MHz	25 GHz - 32 GHz	-28.68 dBc	≤ -20 dBc	Pass
	Low Channel 149, 5745 MHz	32 GHz - 40 GHz	-21.85 dBc	≤ -20 dBc	Pass
	Mid Channel 157, 5785 MHz	30 MHz - 12.5 GHz	-32.76 dBc	≤ -20 dBc	Pass
	Mid Channel 157, 5785 MHz	12.5 GHz - 25 GHz	-29.47 dBc	≤ -20 dBc	Pass
	Mid Channel 157, 5785 MHz	25 GHz - 32 GHz	-28.03 dBc	≤ -20 dBc	Pass
	Mid Channel 157, 5785 MHz	32 GHz - 40 GHz	-20.75 dBc	≤ -20 dBc	Pass
	High Channel 165, 5825 MHz	30 MHz - 12.5 GHz	-34.62 dBc	≤ -20 dBc	Pass
	High Channel 165, 5825 MHz	12.5 GHz - 25 GHz	-30.5 dBc	≤ -20 dBc	Pass
	High Channel 165, 5825 MHz	25 GHz - 32 GHz	-28.41 dBc	≤ -20 dBc	Pass
	High Channel 165, 5825 MHz	32 GHz - 40 GHz	-20.62 dBc	≤ -20 dBc	Pass
	802.11(a) 36 Mbps				
	Low Channel 149, 5745 MHz	30 MHz - 12.5 GHz	-34.43 dBc	≤ -20 dBc	Pass
	Low Channel 149, 5745 MHz	12.5 GHz - 25 GHz	-29.76 dBc	≤ -20 dBc	Pass
	Low Channel 149, 5745 MHz	25 GHz - 32 GHz	-28.6 dBc	≤ -20 dBc	Pass
	Low Channel 149, 5745 MHz	32 GHz - 40 GHz	-21.41 dBc	≤ -20 dBc	Pass
	Mid Channel 157, 5785 MHz	30 MHz - 12.5 GHz	-34.56 dBc	≤ -20 dBc	Pass
	Mid Channel 157, 5785 MHz	12.5 GHz - 25 GHz	-29.96 dBc	≤ -20 dBc	Pass
	Mid Channel 157, 5785 MHz	25 GHz - 32 GHz	-29.27 dBc	≤ -20 dBc	Pass
	Mid Channel 157, 5785 MHz	32 GHz - 40 GHz	-21.24 dBc	≤ -20 dBc	Pass
	High Channel 165, 5825 MHz	30 MHz - 12.5 GHz	-34.83 dBc	≤ -20 dBc	Pass
	High Channel 165, 5825 MHz	12.5 GHz - 25 GHz	-28.97 dBc	≤ -20 dBc	Pass
	High Channel 165, 5825 MHz	25 GHz - 32 GHz	-28.97 dBc	≤ -20 dBc	Pass
	High Channel 165, 5825 MHz	32 GHz - 40 GHz	-21.58 dBc	≤ -20 dBc	Pass
	802.11(a) 54 Mbps				
	Low Channel 149, 5745 MHz	30 MHz - 12.5 GHz	-35.09 dBc	≤ -20 dBc	Pass
	Low Channel 149, 5745 MHz	12.5 GHz - 25 GHz	-30.38 dBc	≤ -20 dBc	Pass
	Low Channel 149, 5745 MHz	25 GHz - 32 GHz	-28.99 dBc	≤ -20 dBc	Pass
	Low Channel 149, 5745 MHz	32 GHz - 40 GHz	-21.61 dBc	≤ -20 dBc	Pass
	Mid Channel 157, 5785 MHz	30 MHz - 12.5 GHz	-34.99 dBc	≤ -20 dBc	Pass
	Mid Channel 157, 5785 MHz	12.5 GHz - 25 GHz	-30.86 dBc	≤ -20 dBc	Pass
	Mid Channel 157, 5785 MHz	25 GHz - 32 GHz	-29.21 dBc	≤ -20 dBc	Pass
	Mid Channel 157, 5785 MHz	32 GHz - 40 GHz	-20.8 dBc	≤ -20 dBc	Pass
	High Channel 165, 5825 MHz	30 MHz - 12.5 GHz	-34.87 dBc	≤ -20 dBc	Pass
	High Channel 165, 5825 MHz	12.5 GHz - 25 GHz	-30.1 dBc	≤ -20 dBc	Pass
	High Channel 165, 5825 MHz	25 GHz - 32 GHz	-29.59 dBc	≤ -20 dBc	Pass
	High Channel 165, 5825 MHz	32 GHz - 40 GHz	-22.2 dBc	≤ -20 dBc	Pass

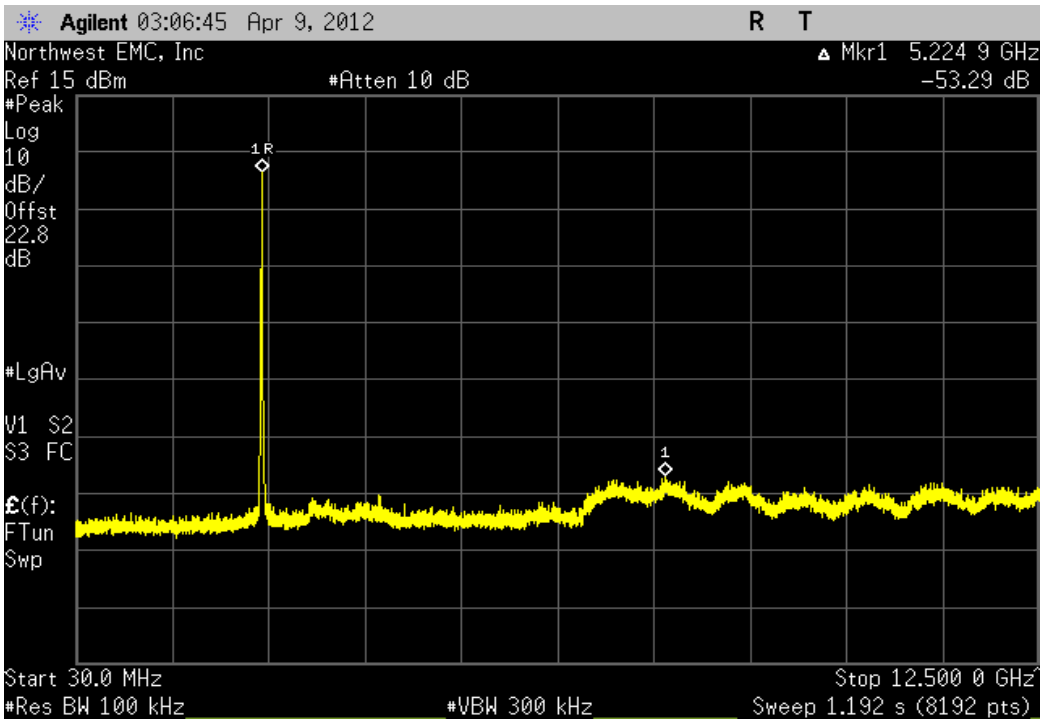
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		**Value**	**Limit**	**Result**
30 MHz - 12.5 GHz		-52.45 dBc	≤ -20 dBc	Pass



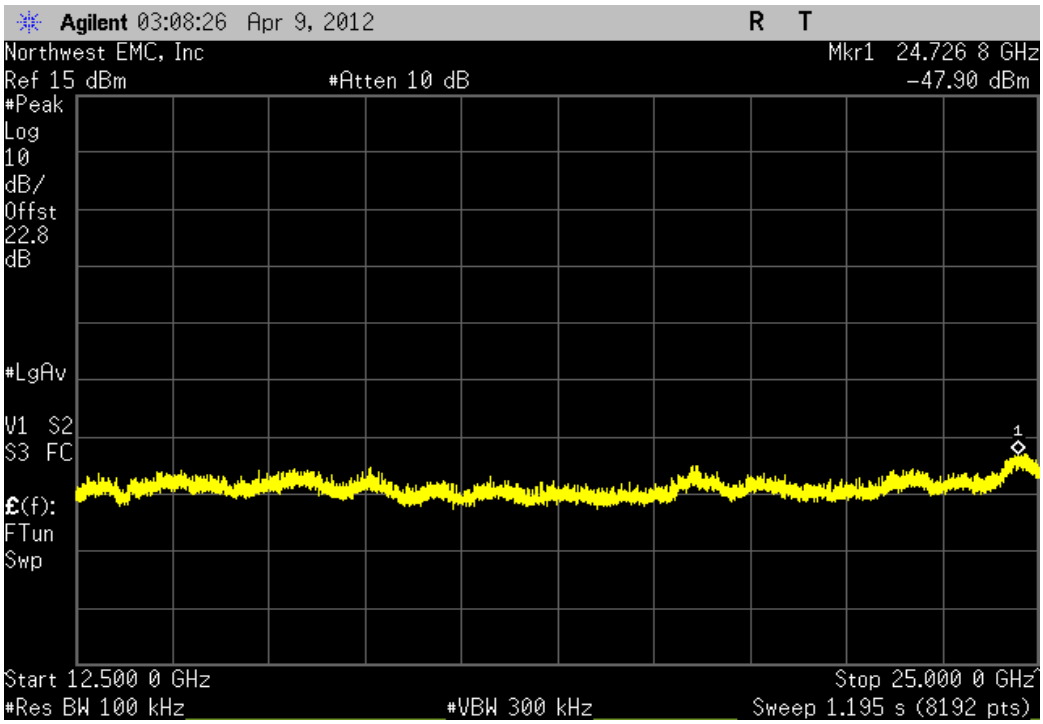
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		**Value**	**Limit**	**Result**
12.5 GHz - 25 GHz		-48.64 dBc	≤ -20 dBc	Pass



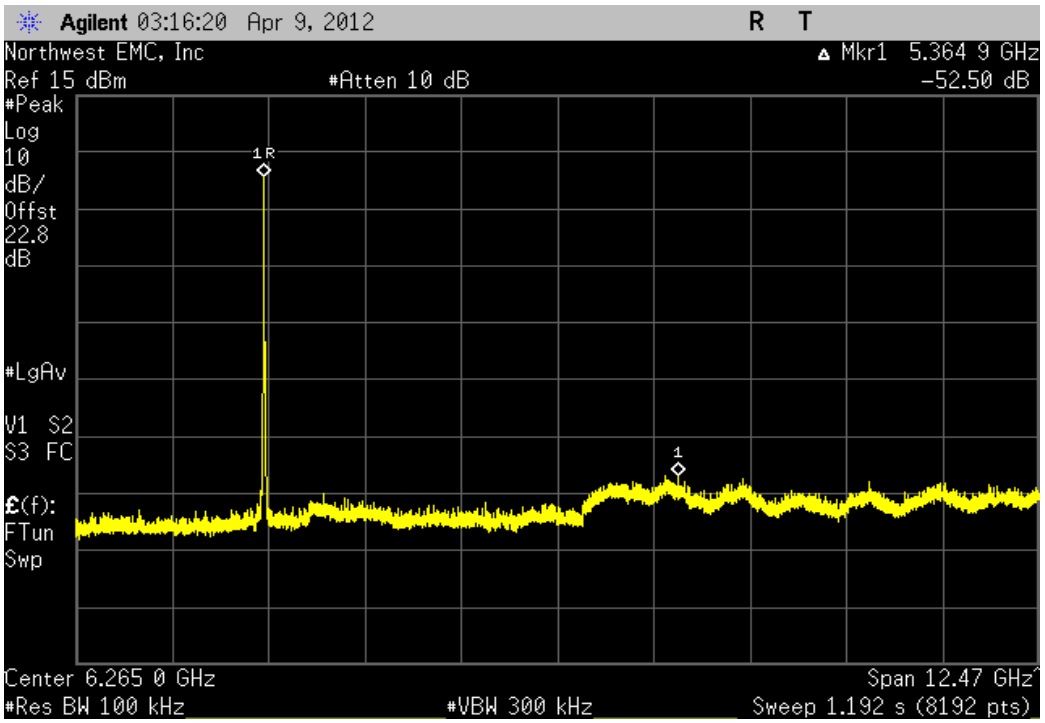
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		**Value**	**Limit**	**Result**
30 MHz - 12.5 GHz		-53.29 dBc	≤ -20 dBc	Pass



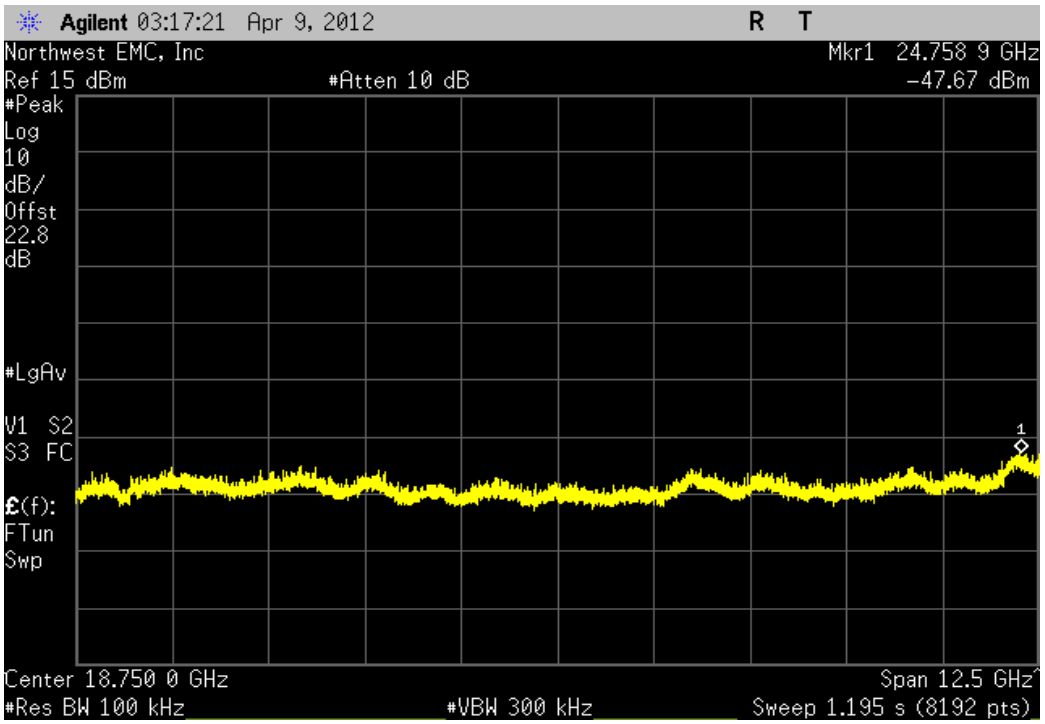
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		**Value**	**Limit**	**Result**
12.5 GHz - 25 GHz		-49.22 dBc	≤ -20 dBc	Pass



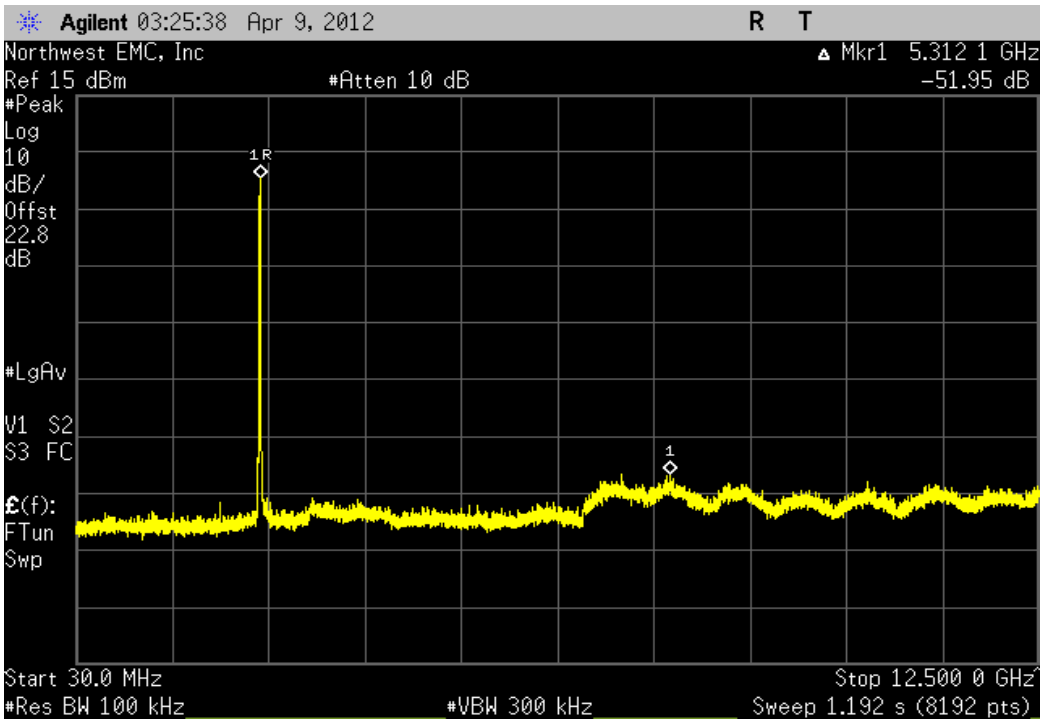
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz				
Frequency Range		**Value**	**Limit**	**Result**
30 MHz - 12.5 GHz		-52.5 dBc	≤ -20 dBc	Pass



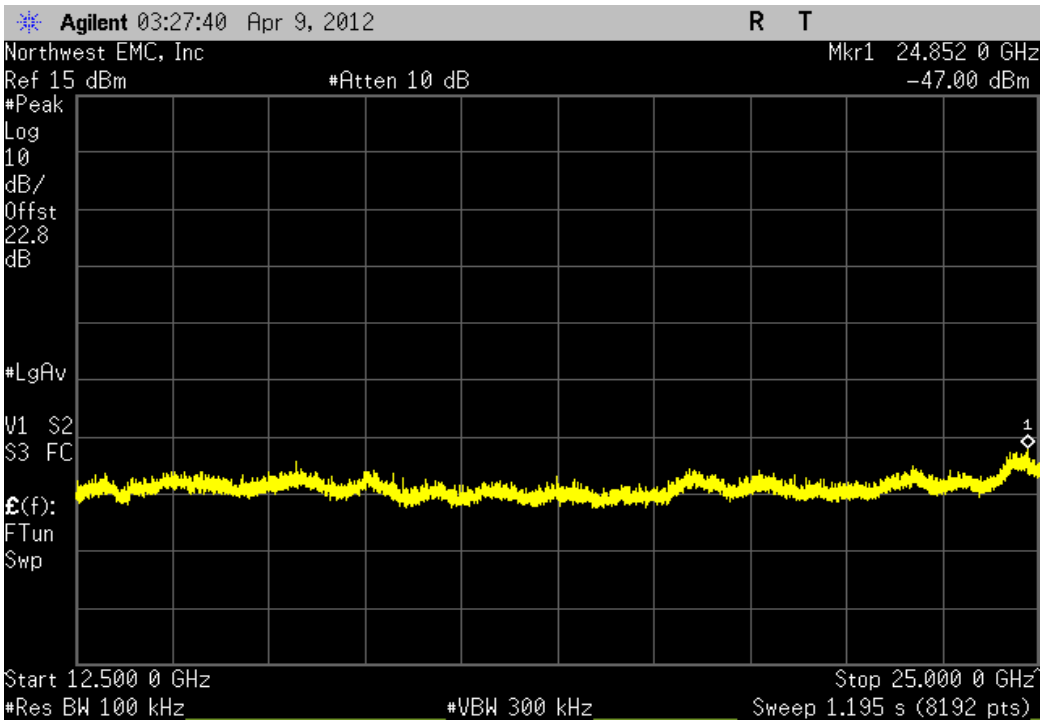
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz				
Frequency Range		**Value**	**Limit**	**Result**
12.5 GHz - 25 GHz		-48.35 dBc	≤ -20 dBc	Pass



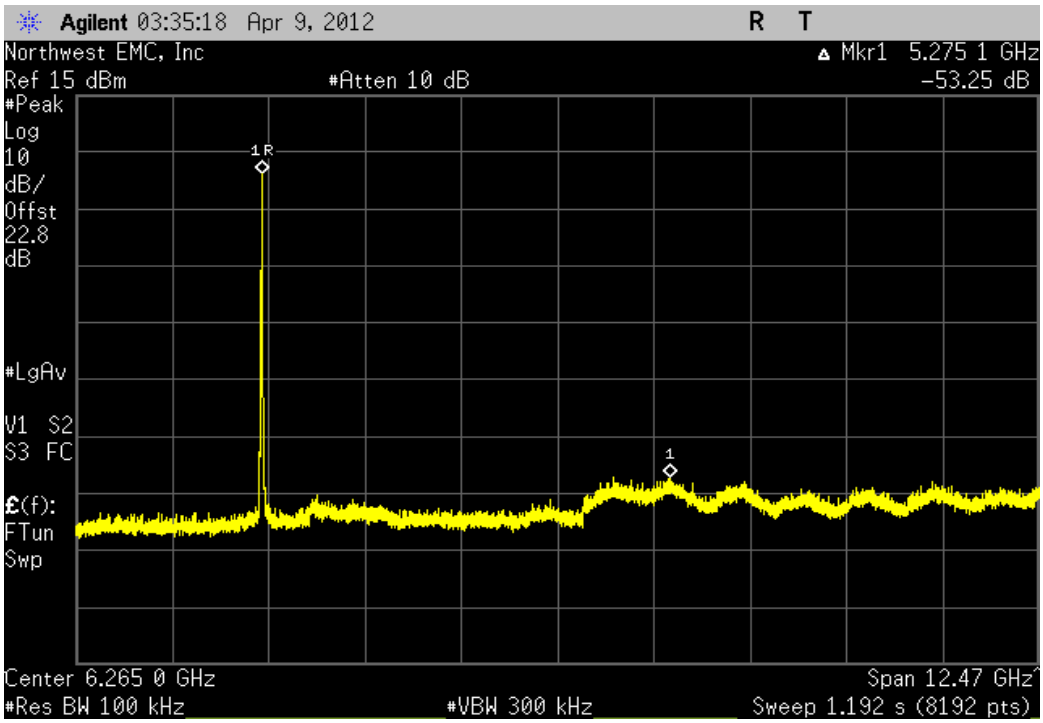
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		**Value**	**Limit**	**Result**
30 MHz - 12.5 GHz		-51.95 dBc	≤ -20 dBc	Pass



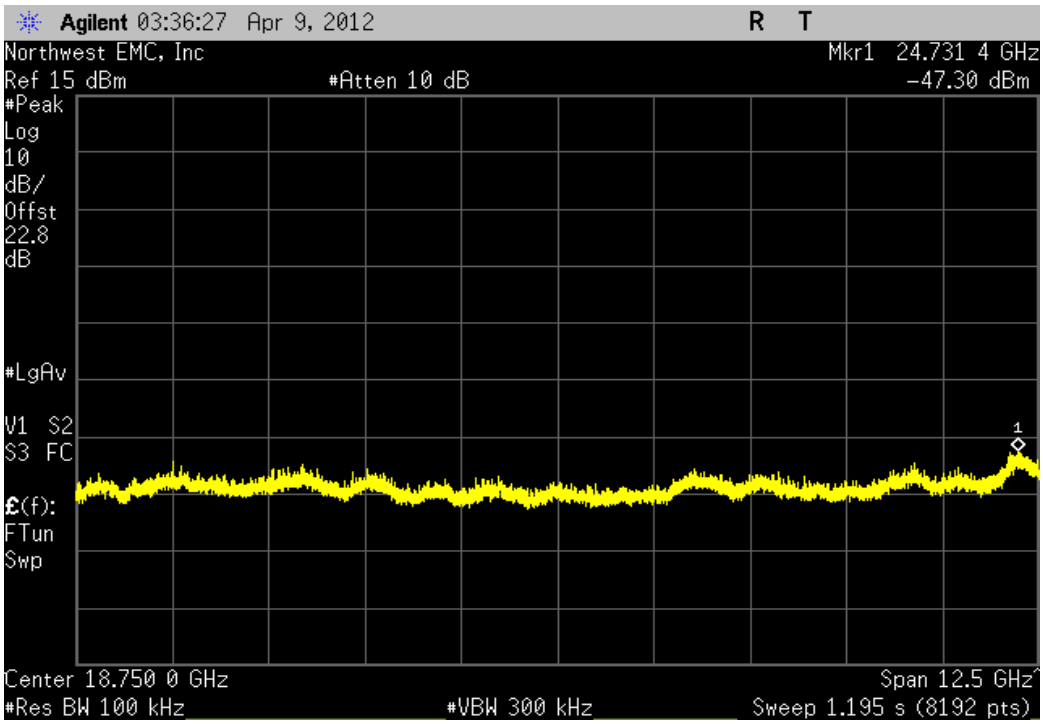
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		**Value**	**Limit**	**Result**
12.5 GHz - 25 GHz		-47.4 dBc	≤ -20 dBc	Pass



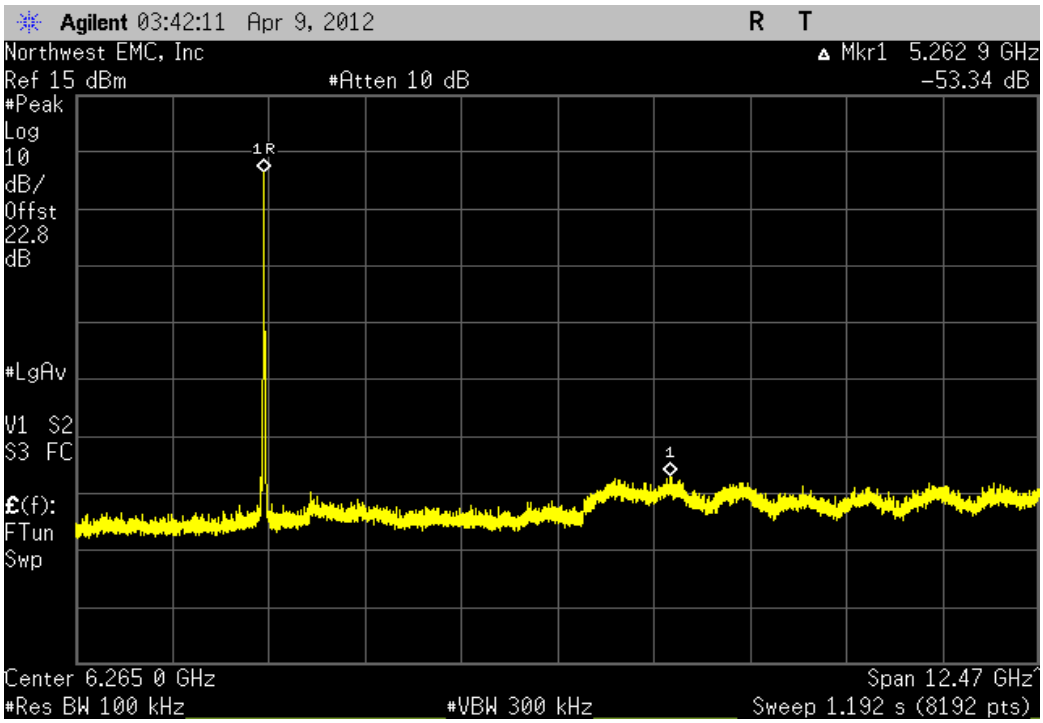
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		**Value**	**Limit**	**Result**
30 MHz - 12.5 GHz		-53.25 dBc	≤ -20 dBc	Pass



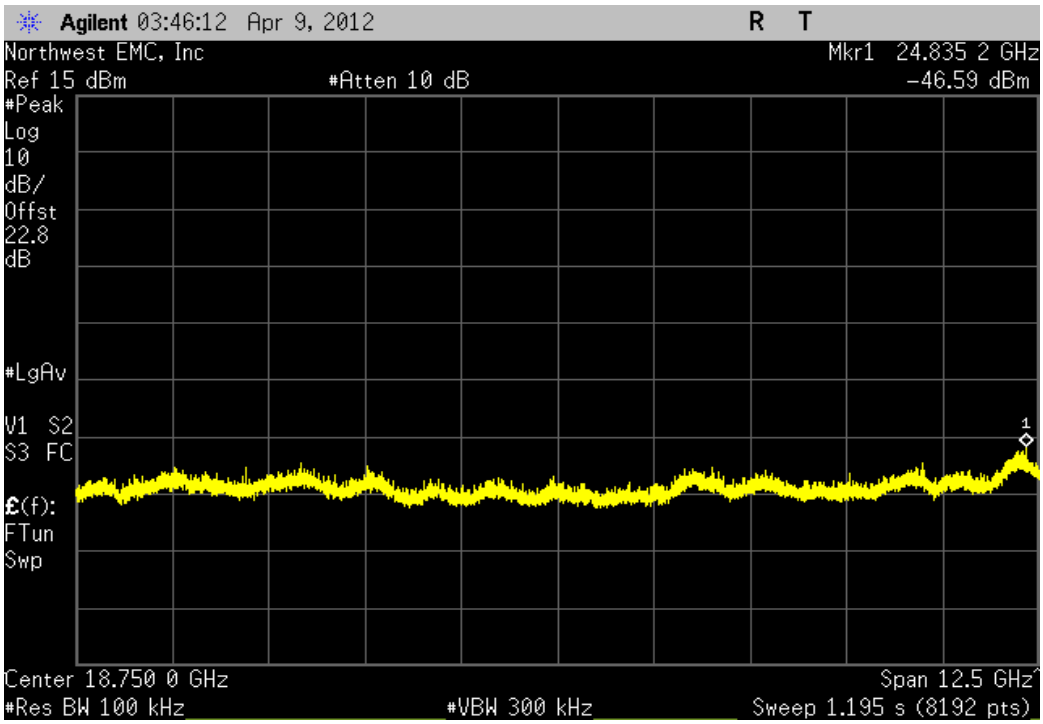
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		**Value**	**Limit**	**Result**
12.5 GHz - 25 GHz		-48.52 dBc	≤ -20 dBc	Pass



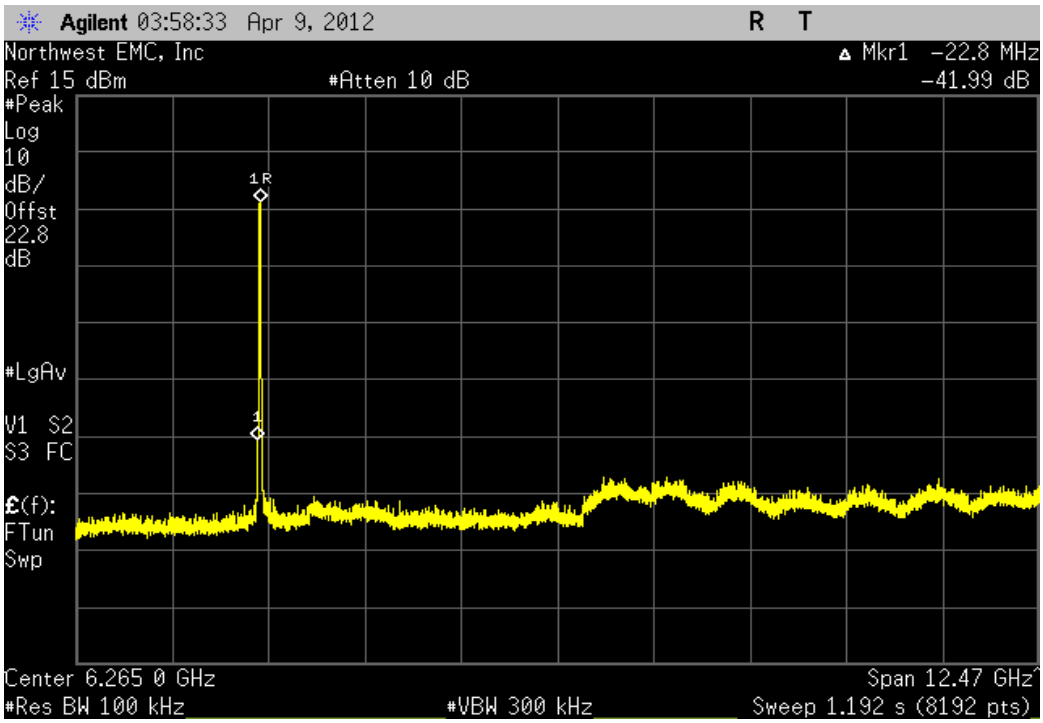
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz				
Frequency Range		**Value**	**Limit**	**Result**
30 MHz - 12.5 GHz		-53.34 dBc	≤ -20 dBc	Pass



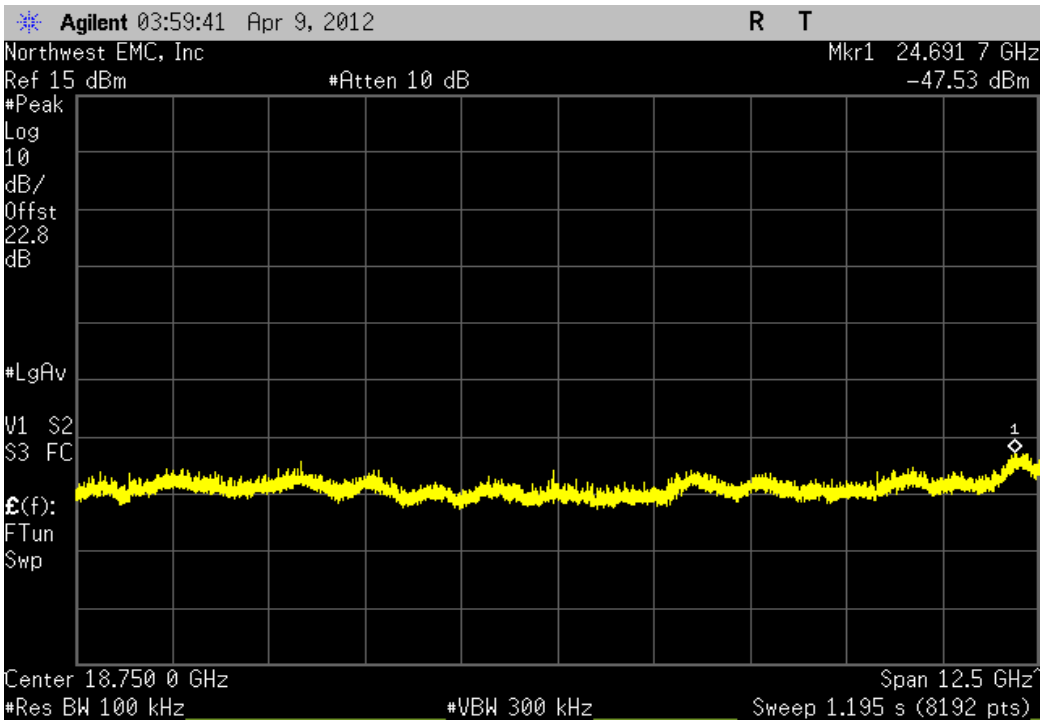
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz				
Frequency Range		**Value**	**Limit**	**Result**
12.5 GHz - 25 GHz		-48.11 dBc	≤ -20 dBc	Pass



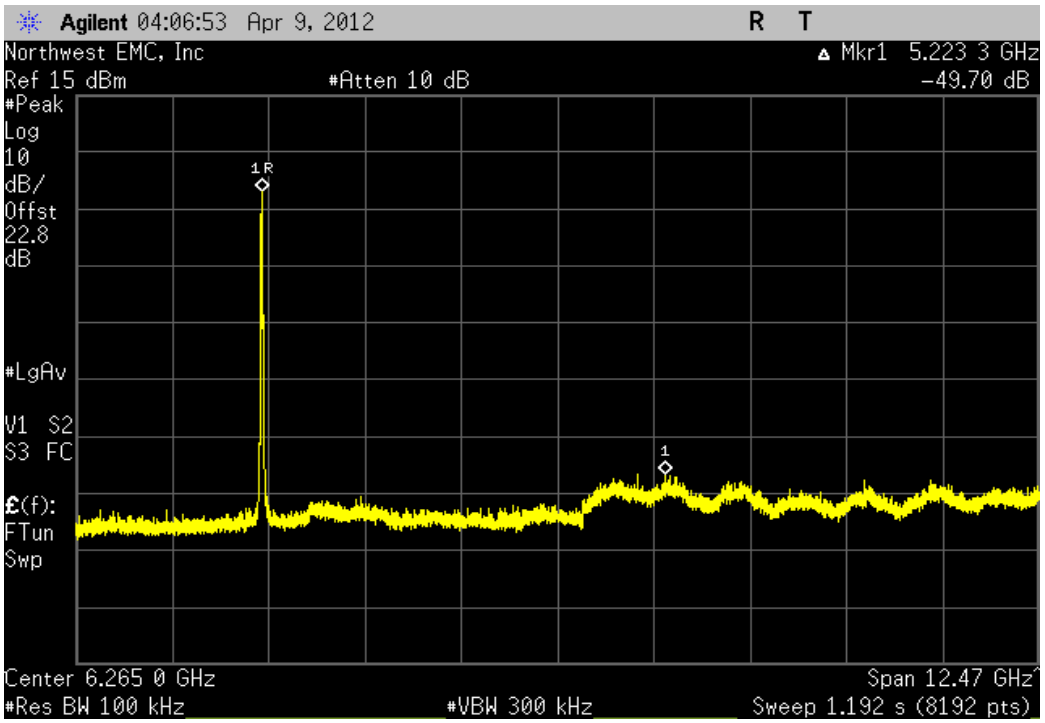
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		**Value**	**Limit**	**Result**
30 MHz - 12.5 GHz		-41.99 dBc	≤ -20 dBc	Pass



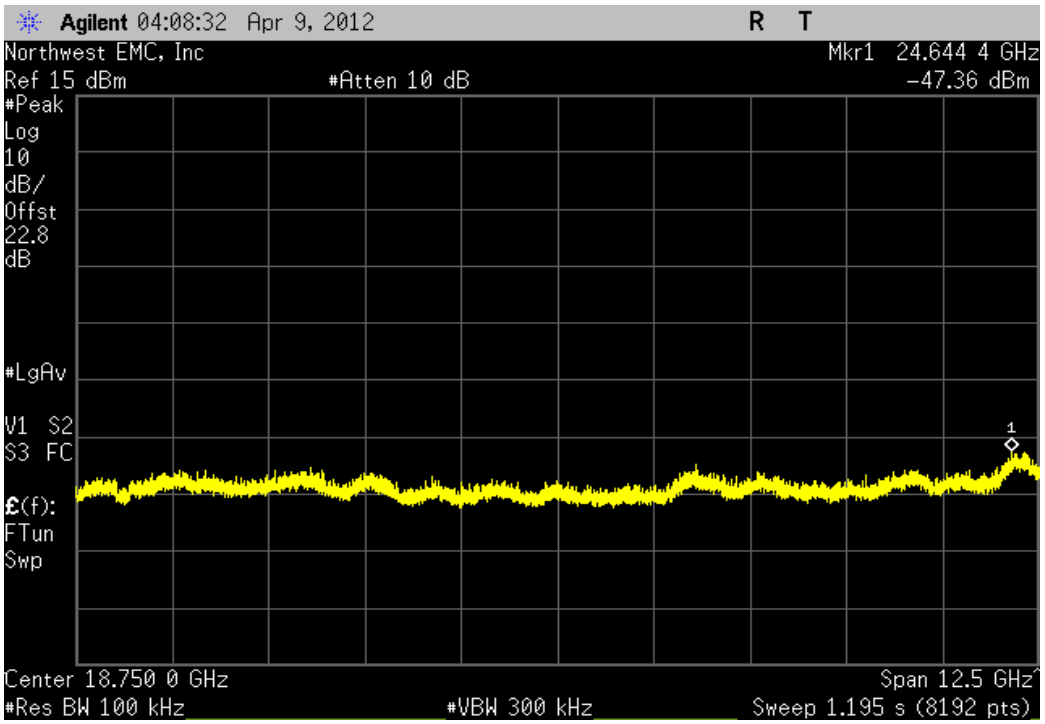
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		**Value**	**Limit**	**Result**
12.5 GHz - 25 GHz		-43.86 dBc	≤ -20 dBc	Pass



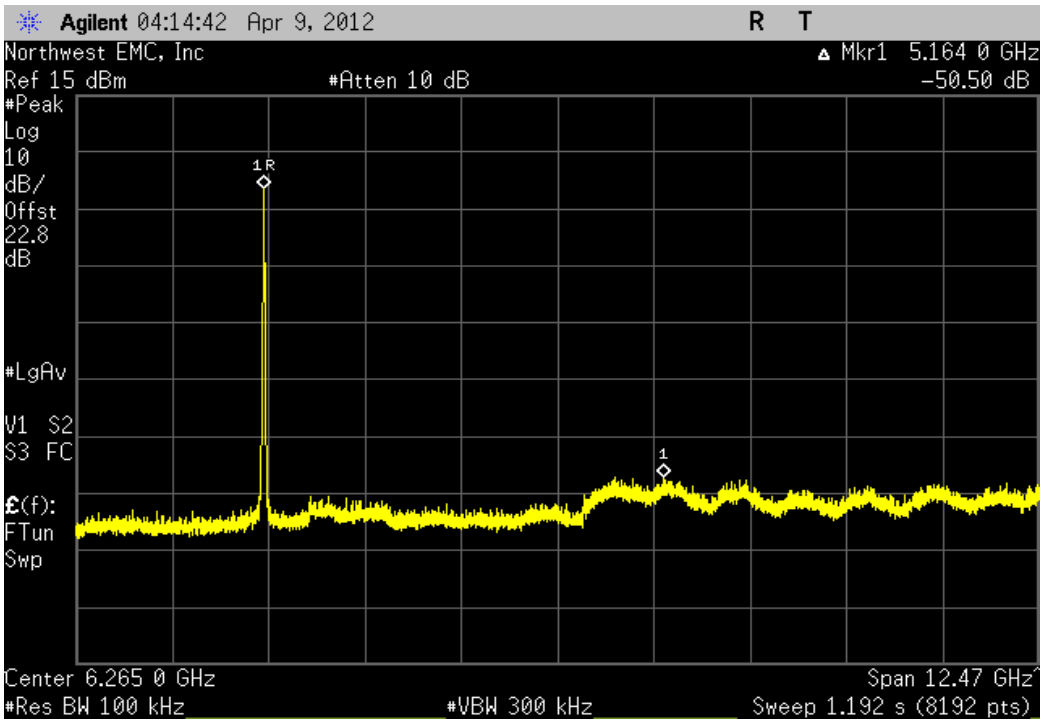
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		**Value**	**Limit**	**Result**
30 MHz - 12.5 GHz		-49.71 dBc	≤ -20 dBc	Pass



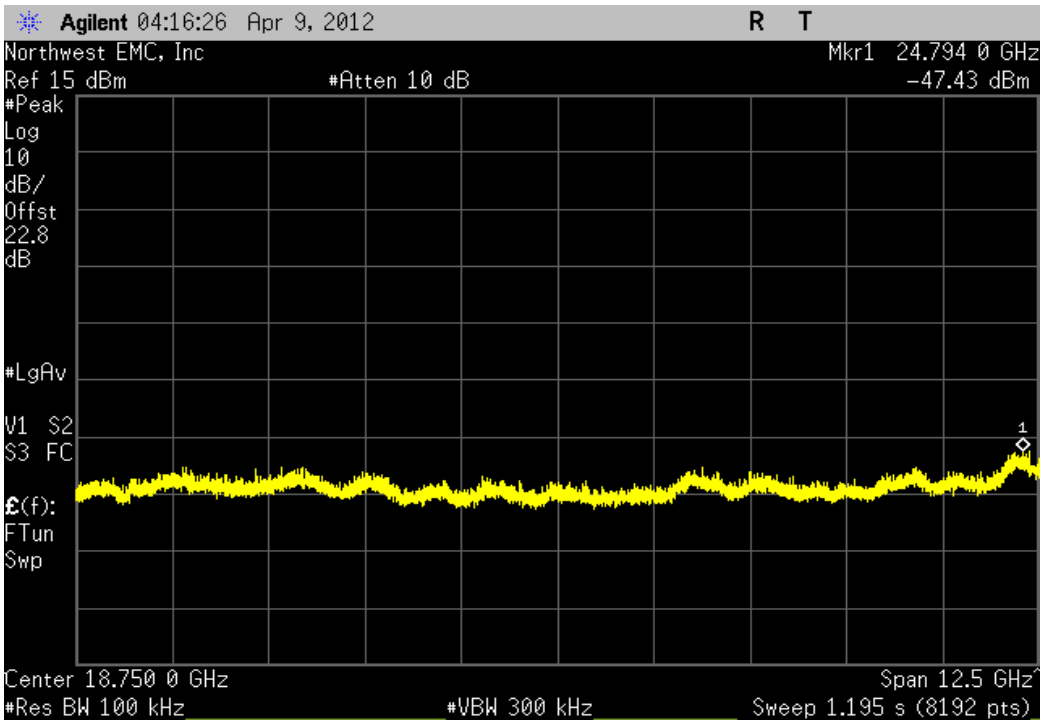
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		**Value**	**Limit**	**Result**
12.5 GHz - 25 GHz		-45.51 dBc	≤ -20 dBc	Pass



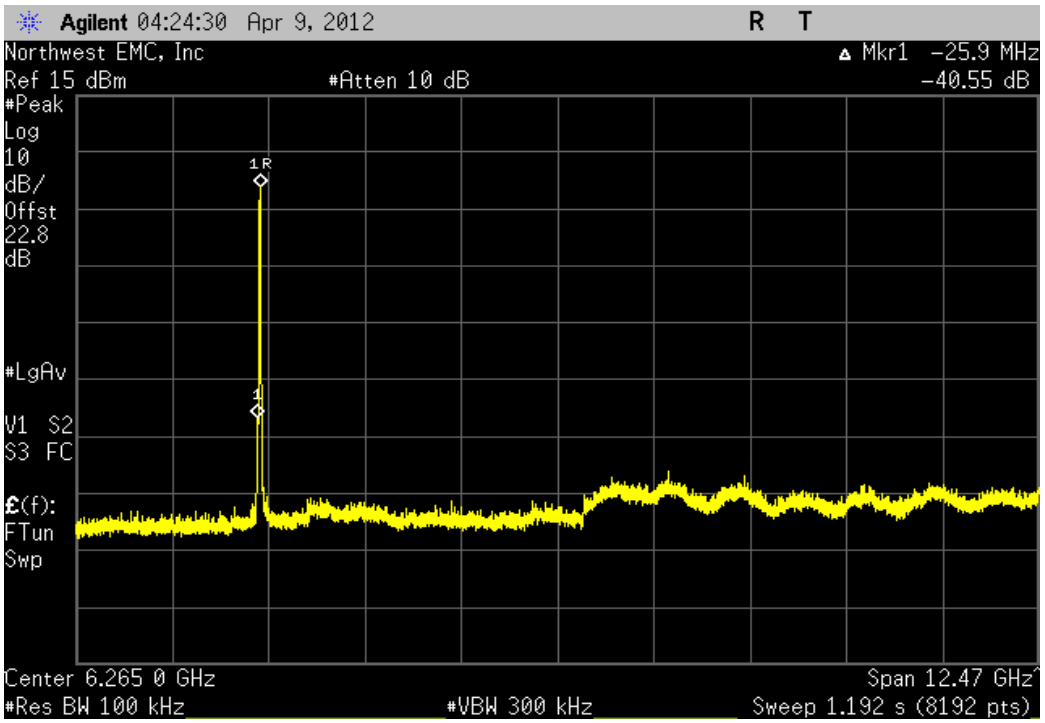
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz				
Frequency Range		**Value**	**Limit**	**Result**
30 MHz - 12.5 GHz		-50.5 dBc	≤ -20 dBc	Pass



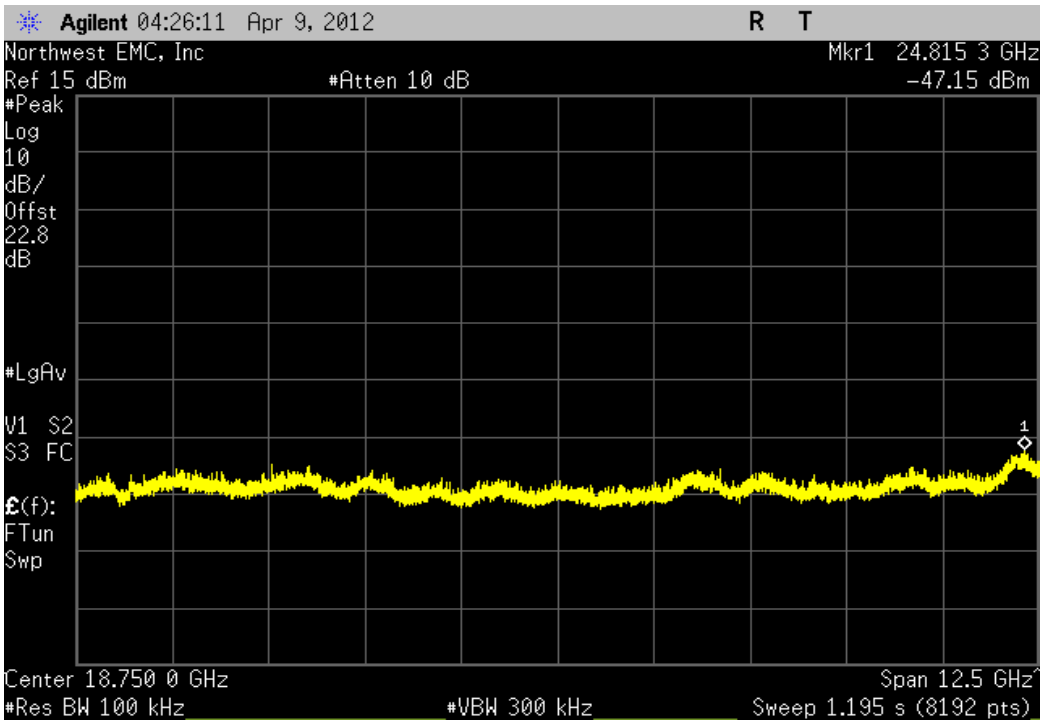
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz				
Frequency Range		**Value**	**Limit**	**Result**
12.5 GHz - 25 GHz		-45.95 dBc	≤ -20 dBc	Pass



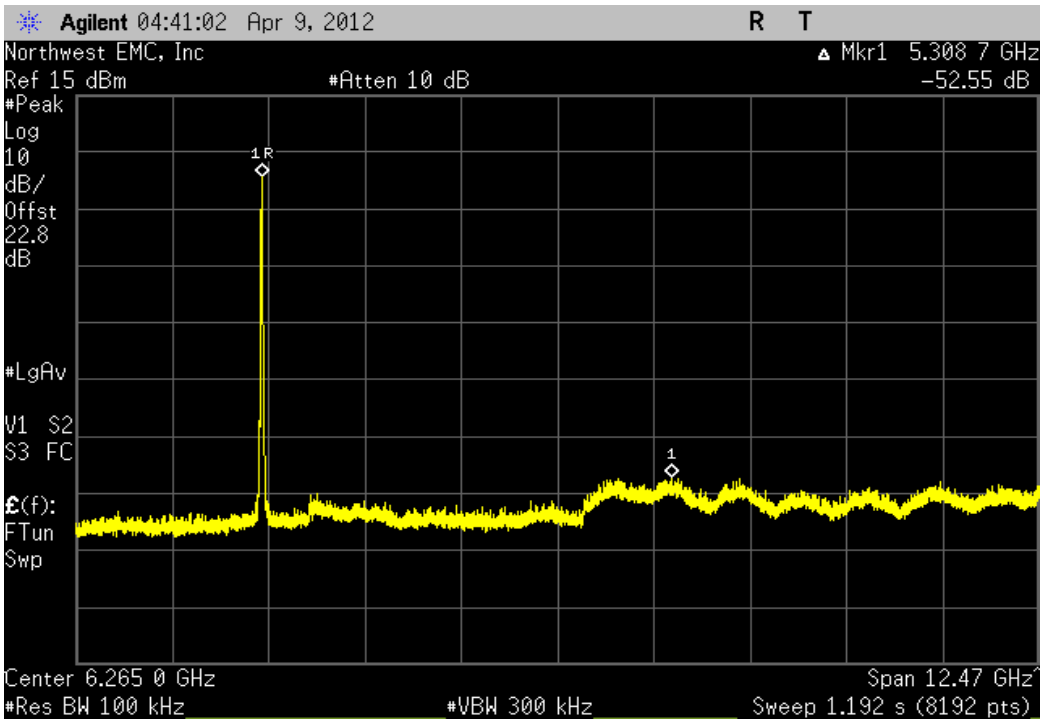
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		**Value**	**Limit**	**Result**
30 MHz - 12.5 GHz		-40.55 dBc	≤ -20 dBc	Pass



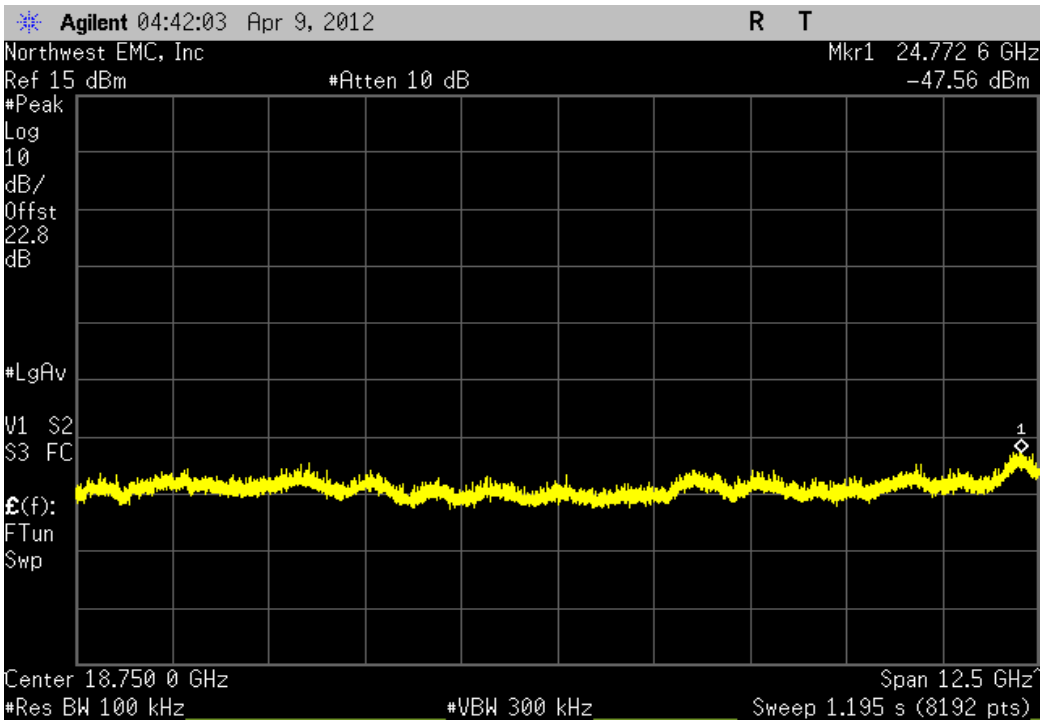
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		**Value**	**Limit**	**Result**
12.5 GHz - 25 GHz		-45.97 dBc	≤ -20 dBc	Pass



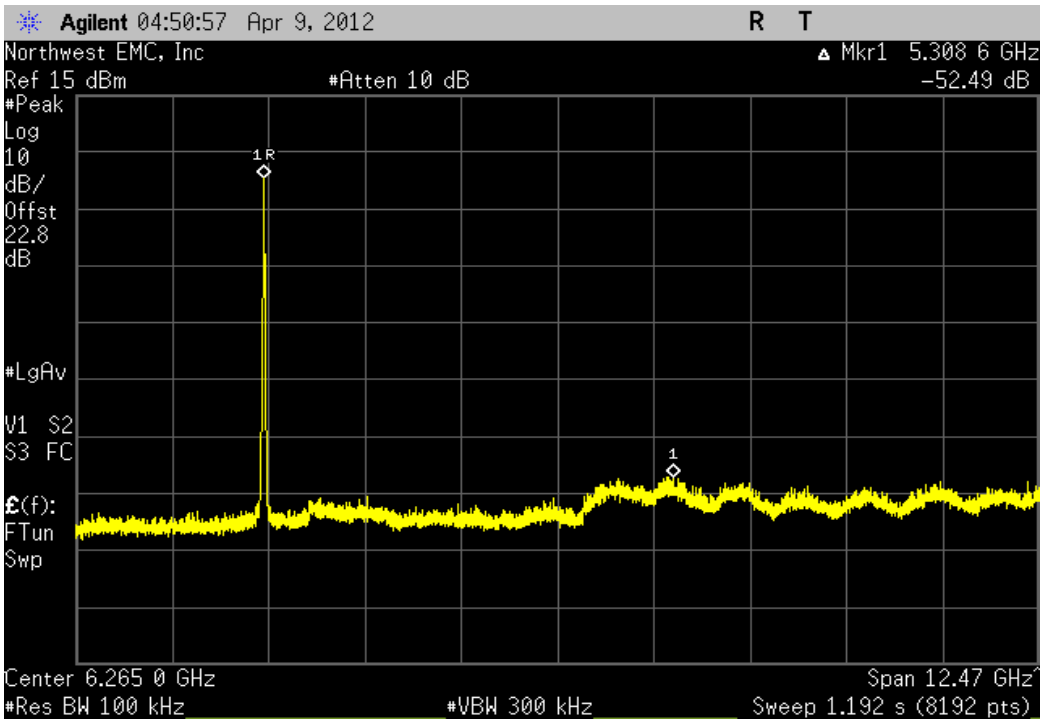
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		**Value**	**Limit**	**Result**
30 MHz - 12.5 GHz		-52.55 dBc	≤ -20 dBc	Pass



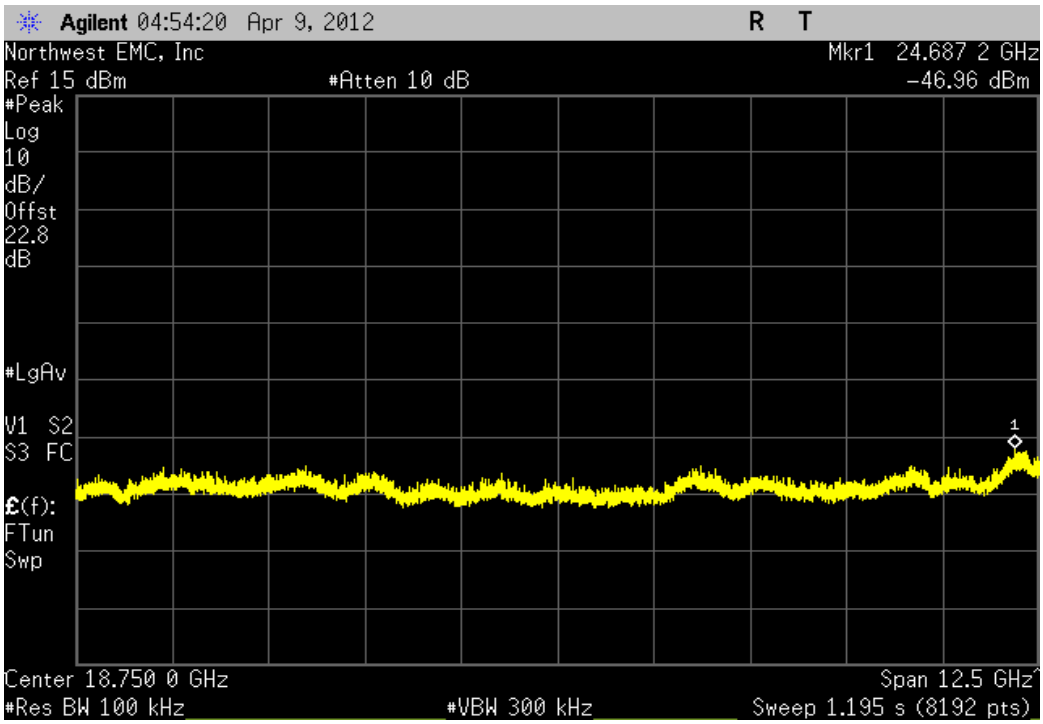
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		**Value**	**Limit**	**Result**
12.5 GHz - 25 GHz		-48.11 dBc	≤ -20 dBc	Pass



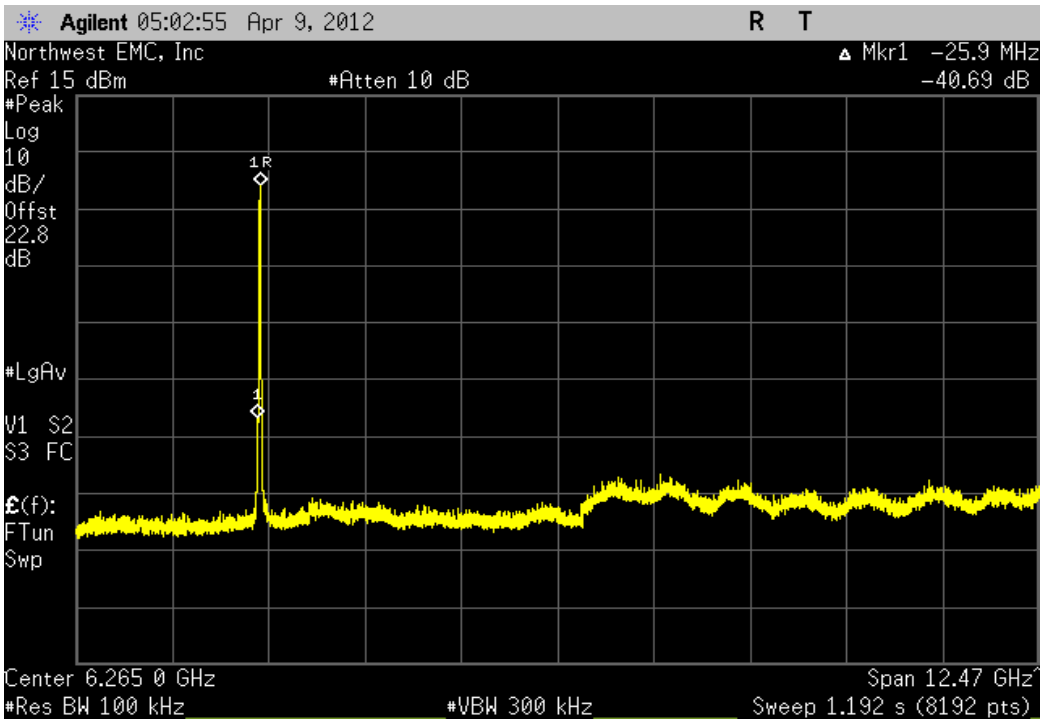
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz				
Frequency Range		**Value**	**Limit**	**Result**
30 MHz - 12.5 GHz		-52.5 dBc	≤ -20 dBc	Pass



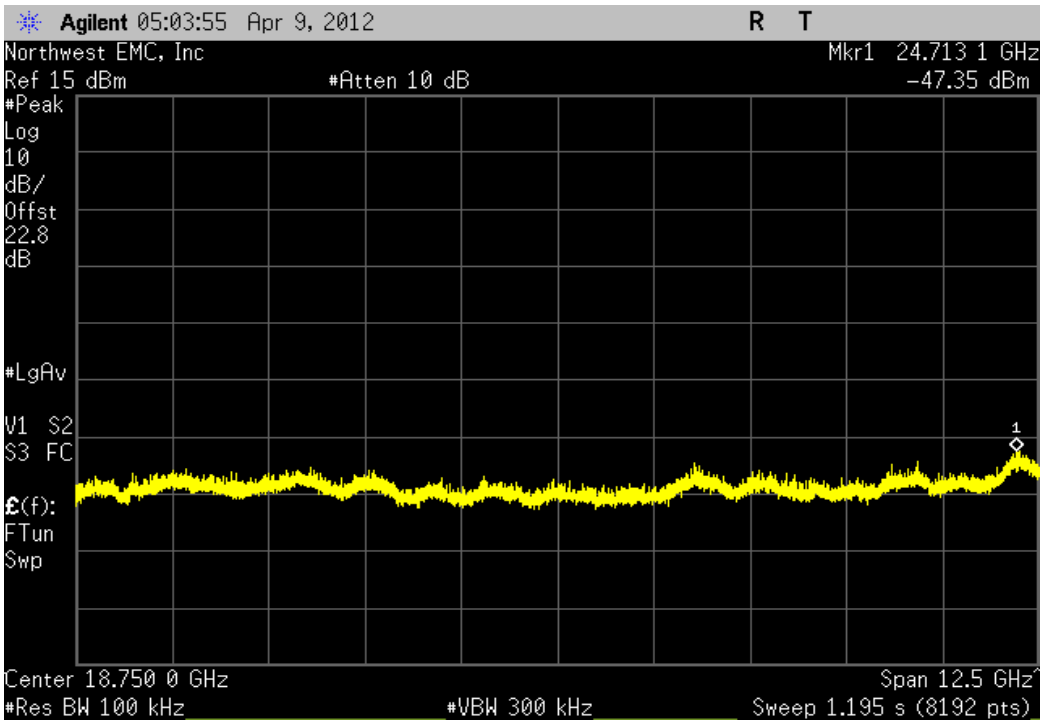
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz				
Frequency Range		**Value**	**Limit**	**Result**
12.5 GHz - 25 GHz		-47.44 dBc	≤ -20 dBc	Pass



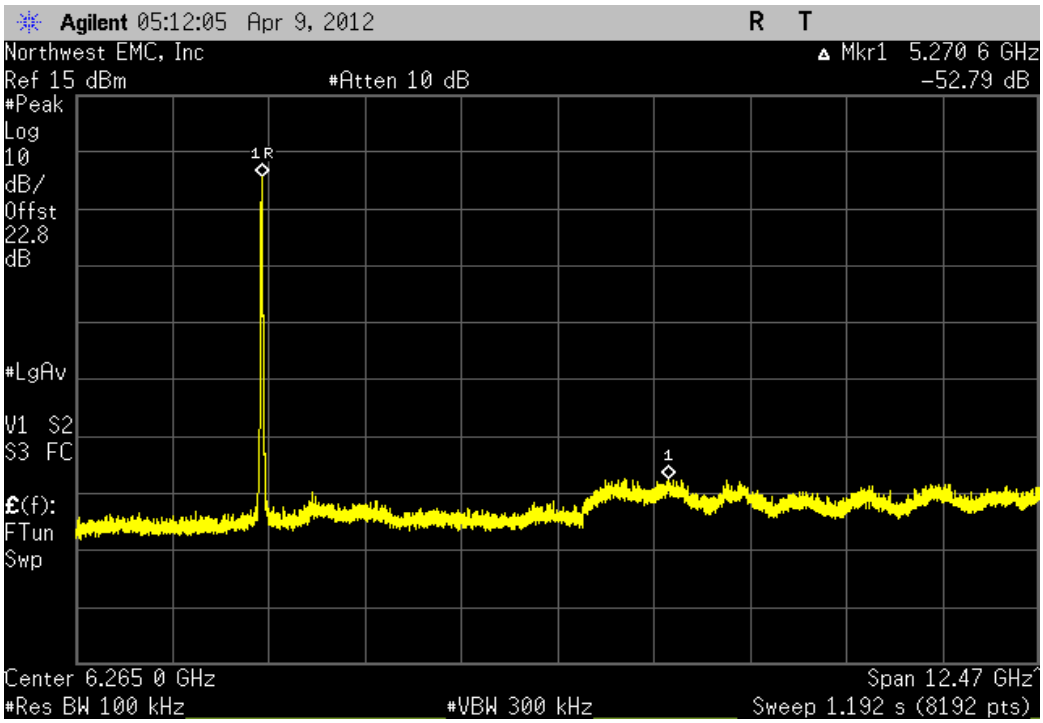
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		**Value**	**Limit**	**Result**
30 MHz - 12.5 GHz		-40.69 dBc	≤ -20 dBc	Pass



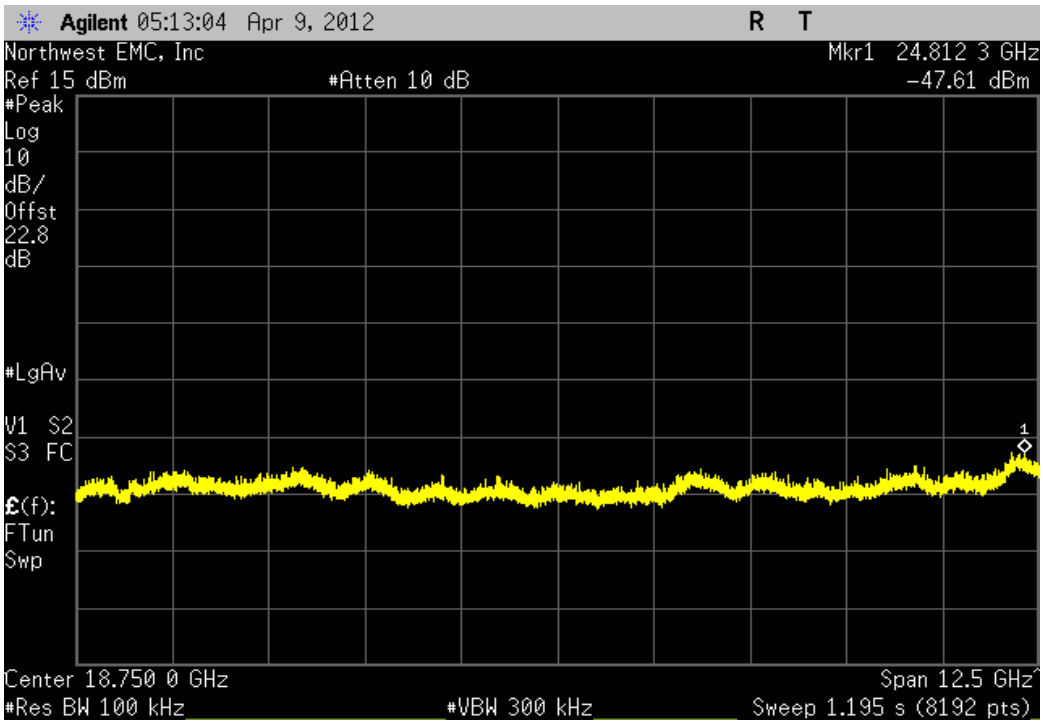
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz				
Frequency Range		**Value**	**Limit**	**Result**
12.5 GHz - 25 GHz		-46.5 dBc	≤ -20 dBc	Pass



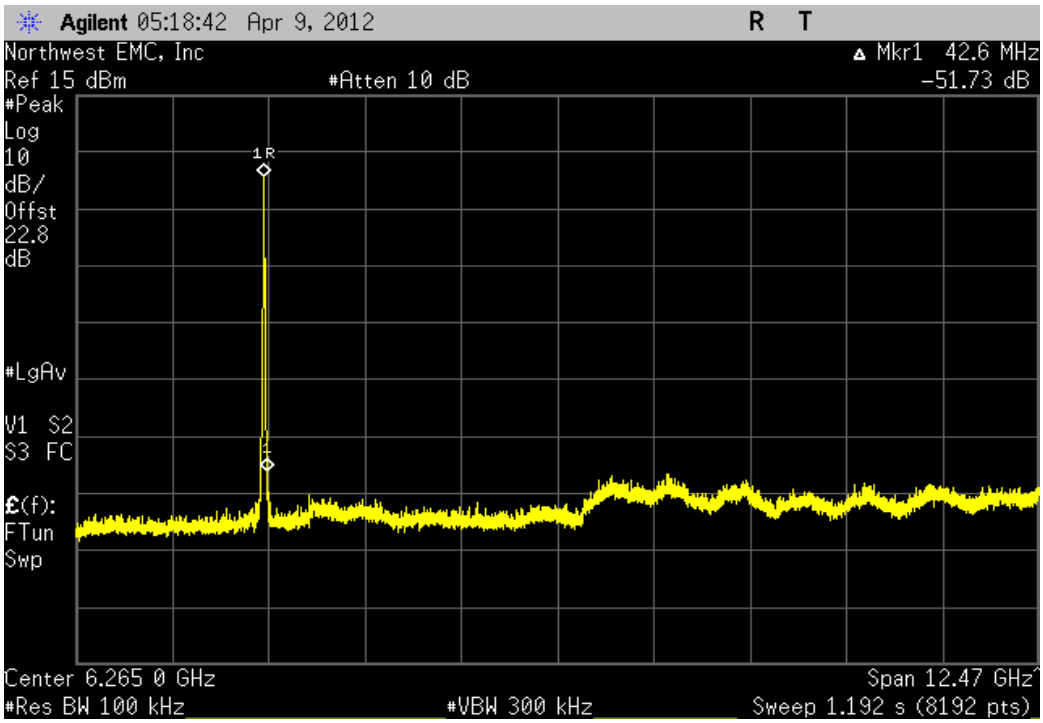
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		**Value**	**Limit**	**Result**
30 MHz - 12.5 GHz		-52.79 dBc	≤ -20 dBc	Pass



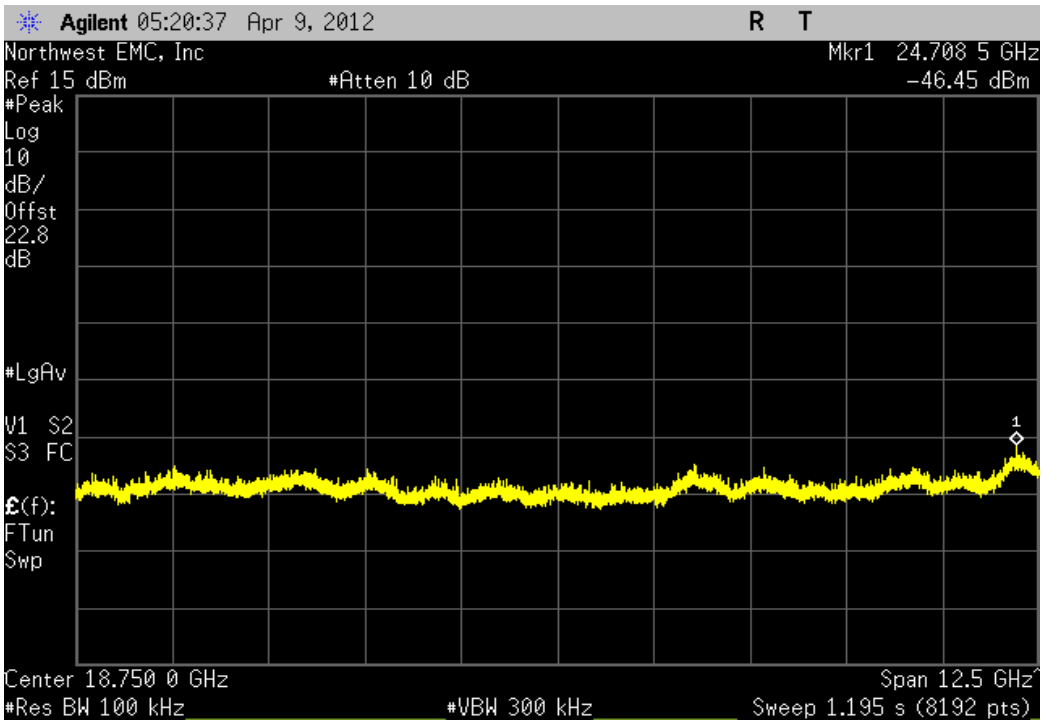
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range		**Value**	**Limit**	**Result**
12.5 GHz - 25 GHz		-48.16 dBc	≤ -20 dBc	Pass



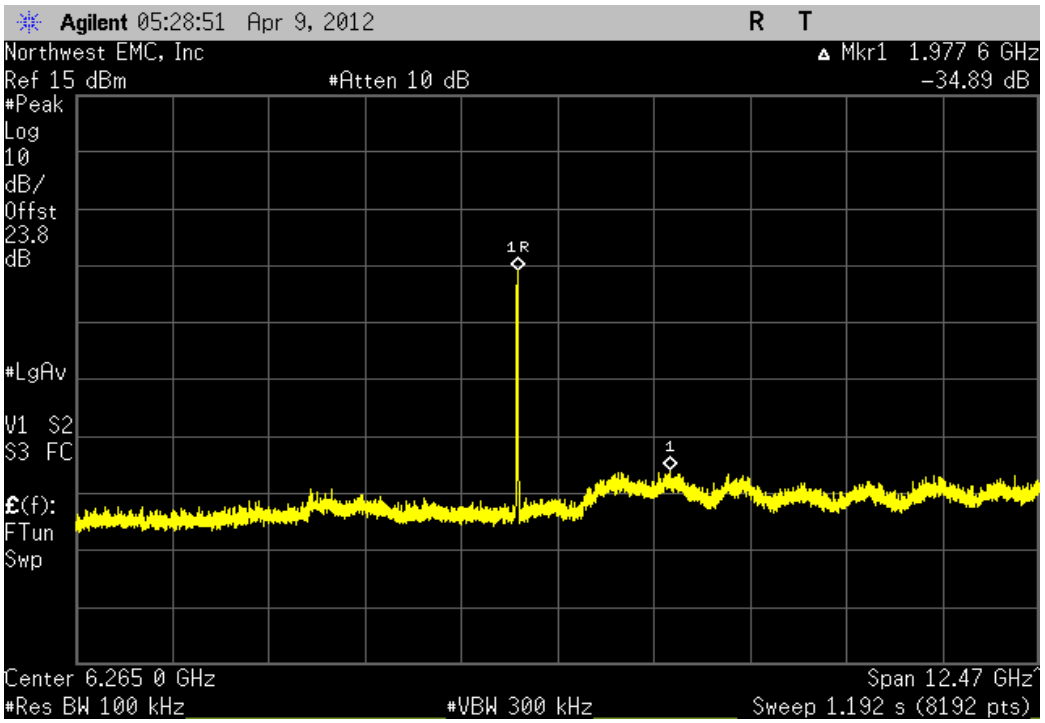
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz				
Frequency Range		**Value**	**Limit**	**Result**
30 MHz - 12.5 GHz		-51.73 dBc	≤ -20 dBc	Pass



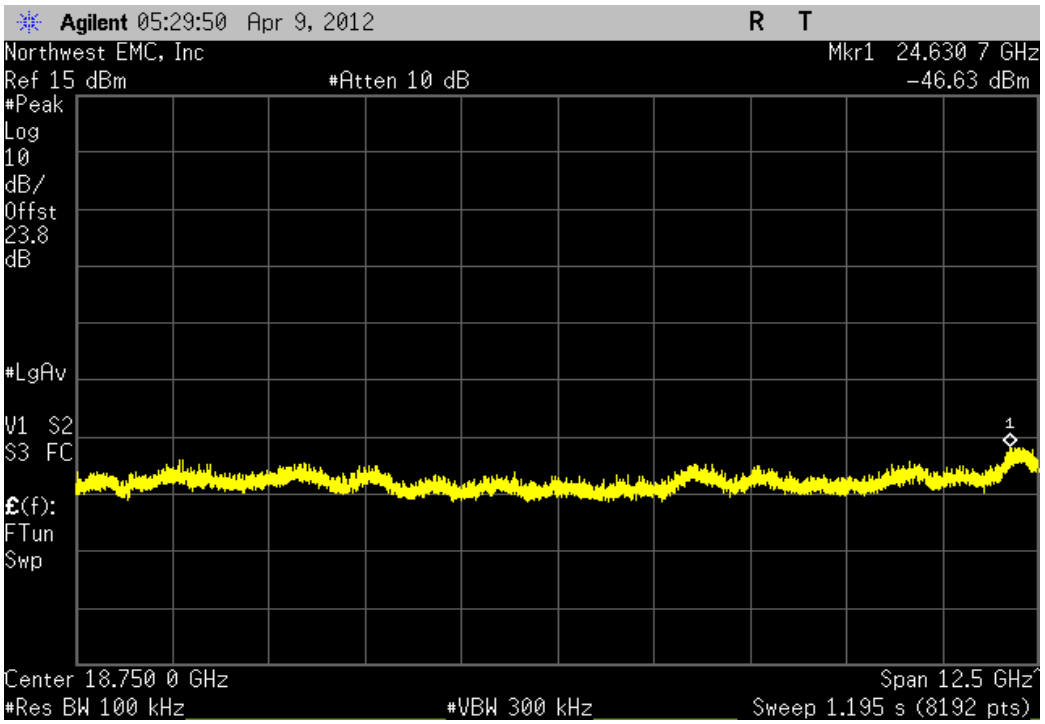
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz				
Frequency Range		**Value**	**Limit**	**Result**
12.5 GHz - 25 GHz		-47.21 dBc	≤ -20 dBc	Pass



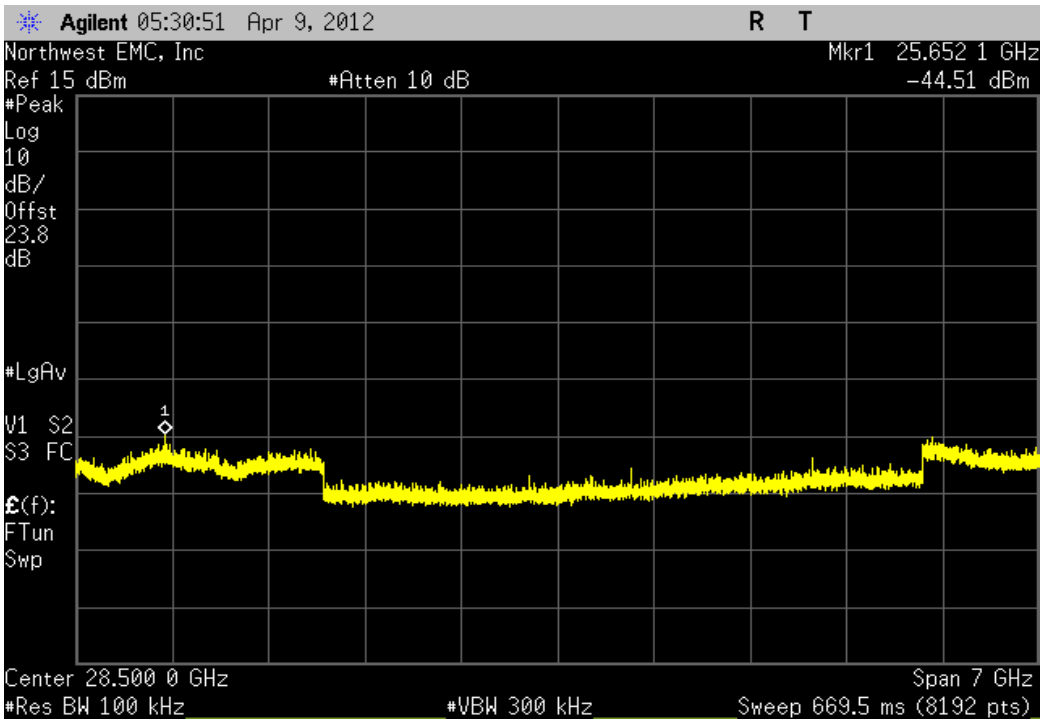
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		**Value**	**Limit**	**Result**
30 MHz - 12.5 GHz		-34.89 dBc	≤ -20 dBc	Pass



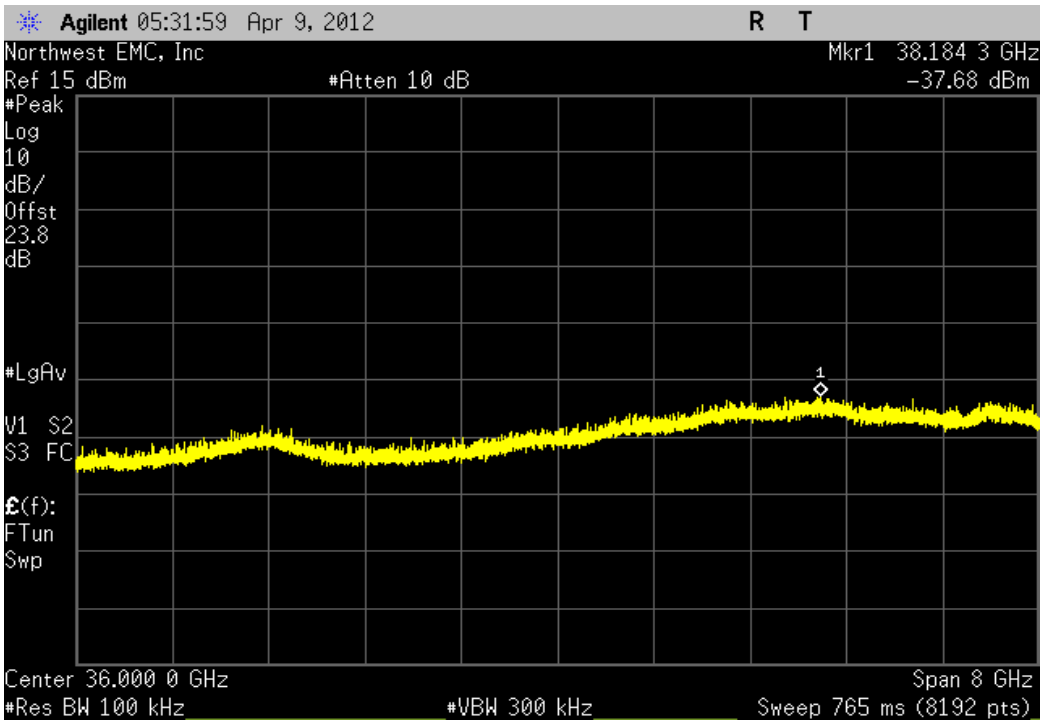
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		**Value**	**Limit**	**Result**
12.5 GHz - 25 GHz		-30.8 dBc	≤ -20 dBc	Pass



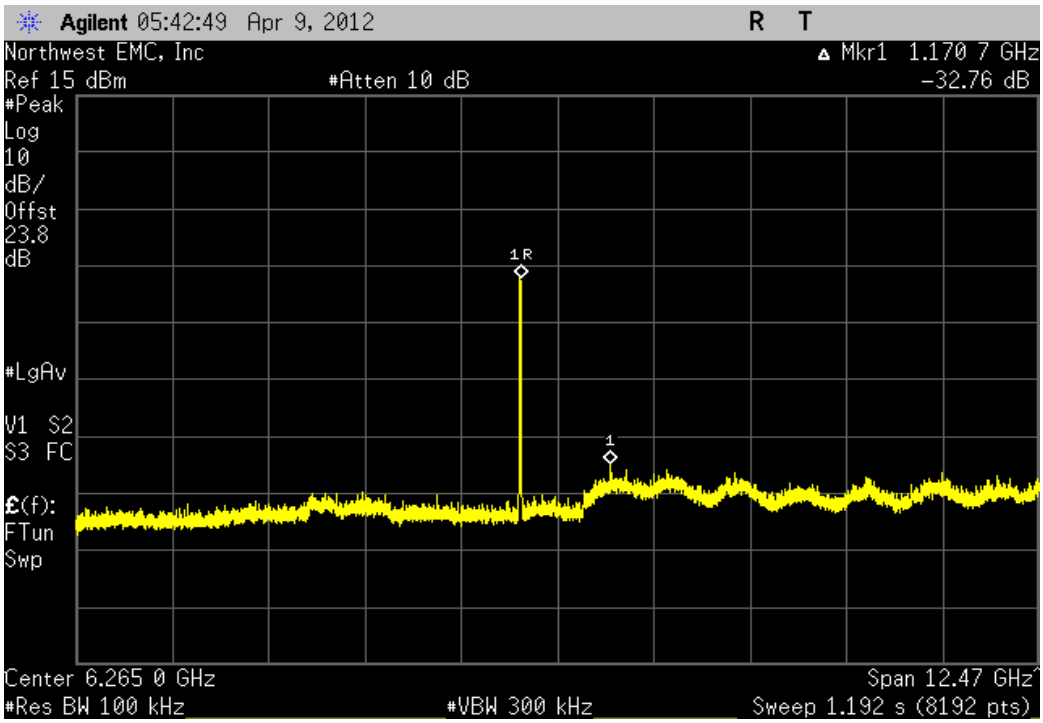
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		**Value**	**Limit**	**Result**
25 GHz - 32 GHz		-28.68 dBc	≤ -20 dBc	Pass



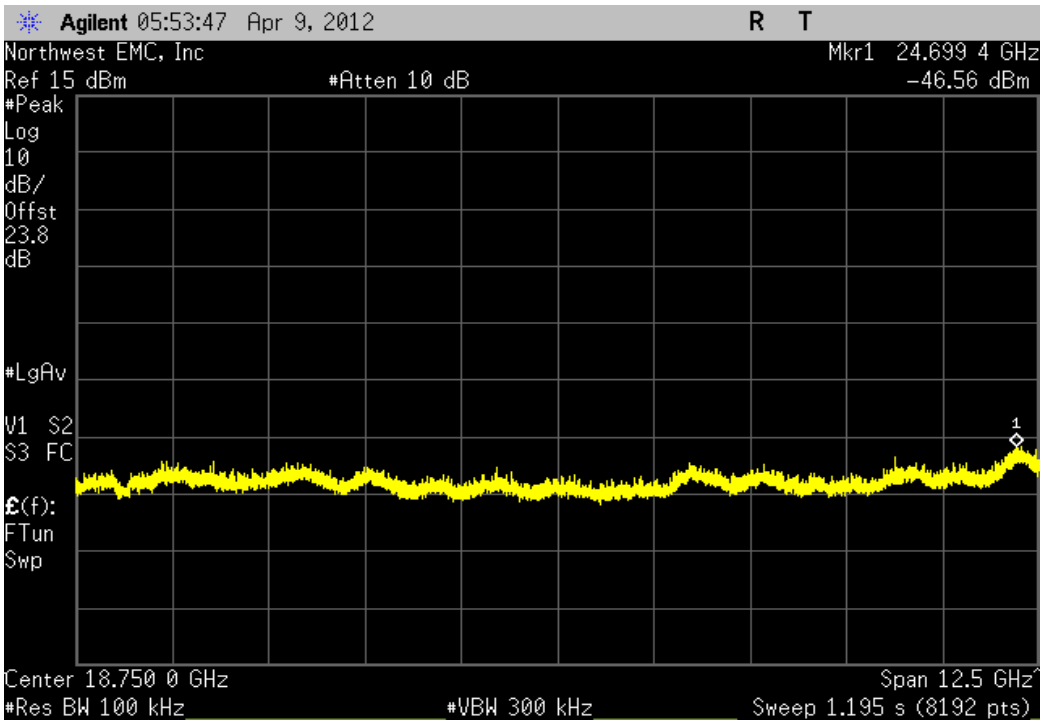
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		**Value**	**Limit**	**Result**
32 GHz - 40 GHz		-21.85 dBc	≤ -20 dBc	Pass



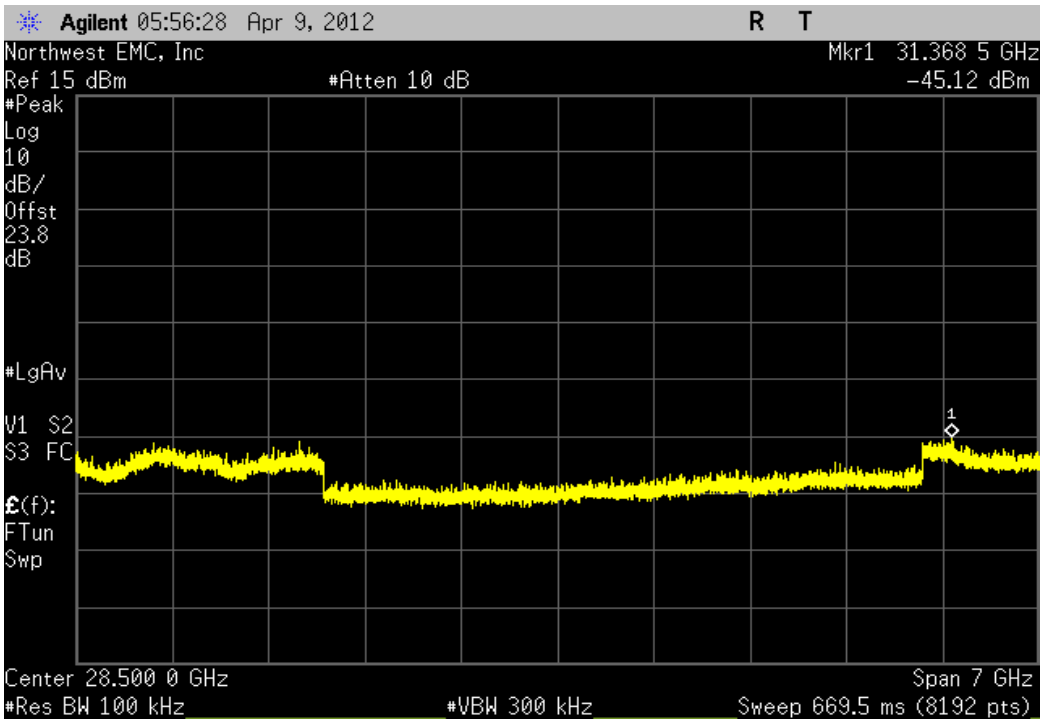
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		**Value**	**Limit**	**Result**
30 MHz - 12.5 GHz		-32.76 dBc	≤ -20 dBc	Pass



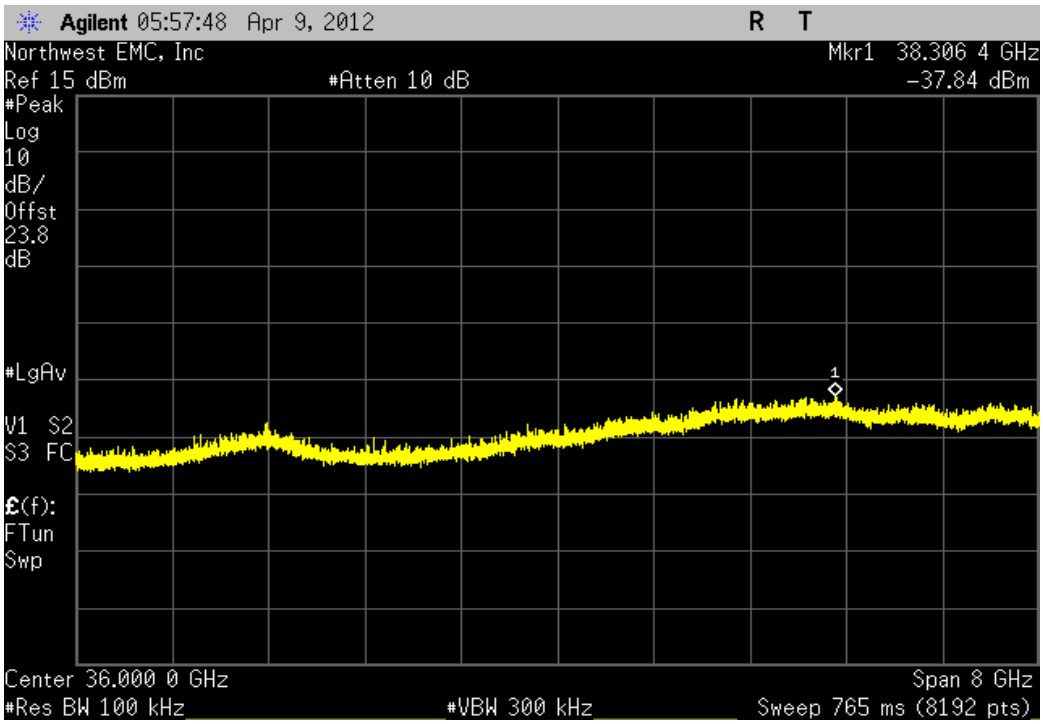
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		**Value**	**Limit**	**Result**
12.5 GHz - 25 GHz		-29.47 dBc	≤ -20 dBc	Pass



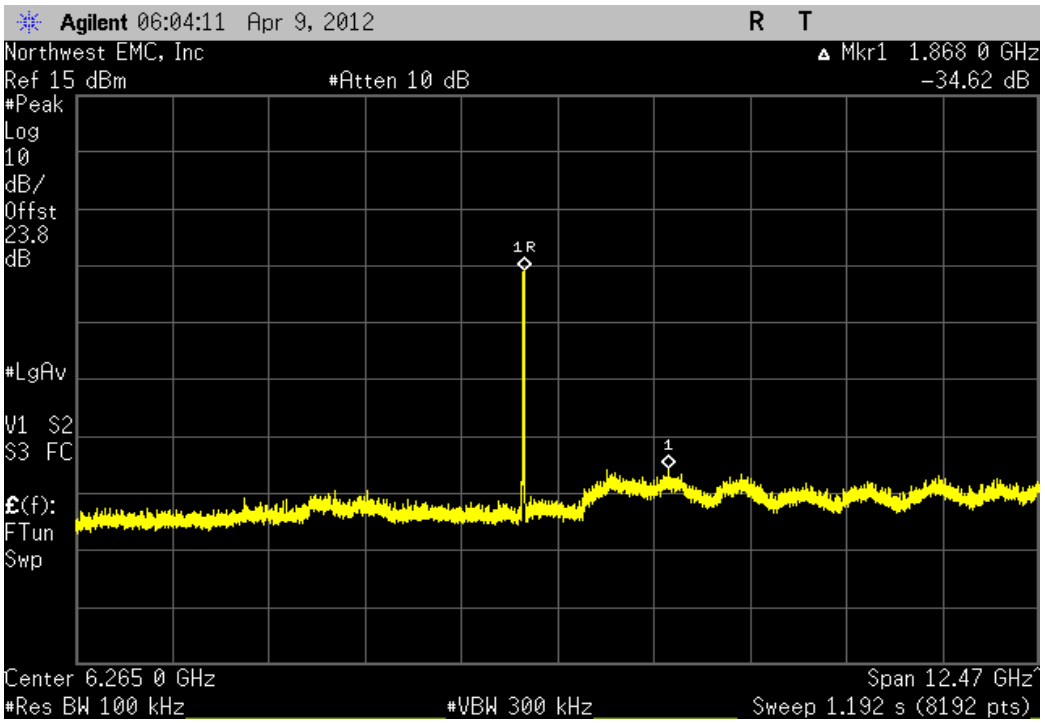
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		**Value**	**Limit**	**Result**
25 GHz - 32 GHz		-28.03 dBc	≤ -20 dBc	Pass



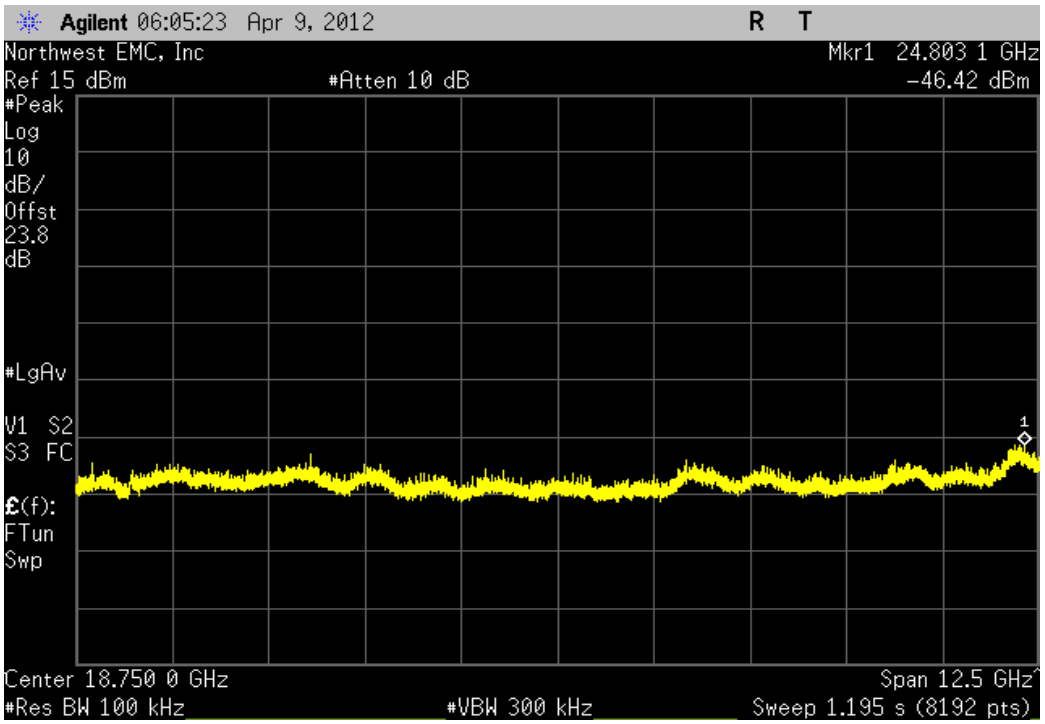
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		**Value**	**Limit**	**Result**
32 GHz - 40 GHz		-20.75 dBc	≤ -20 dBc	Pass



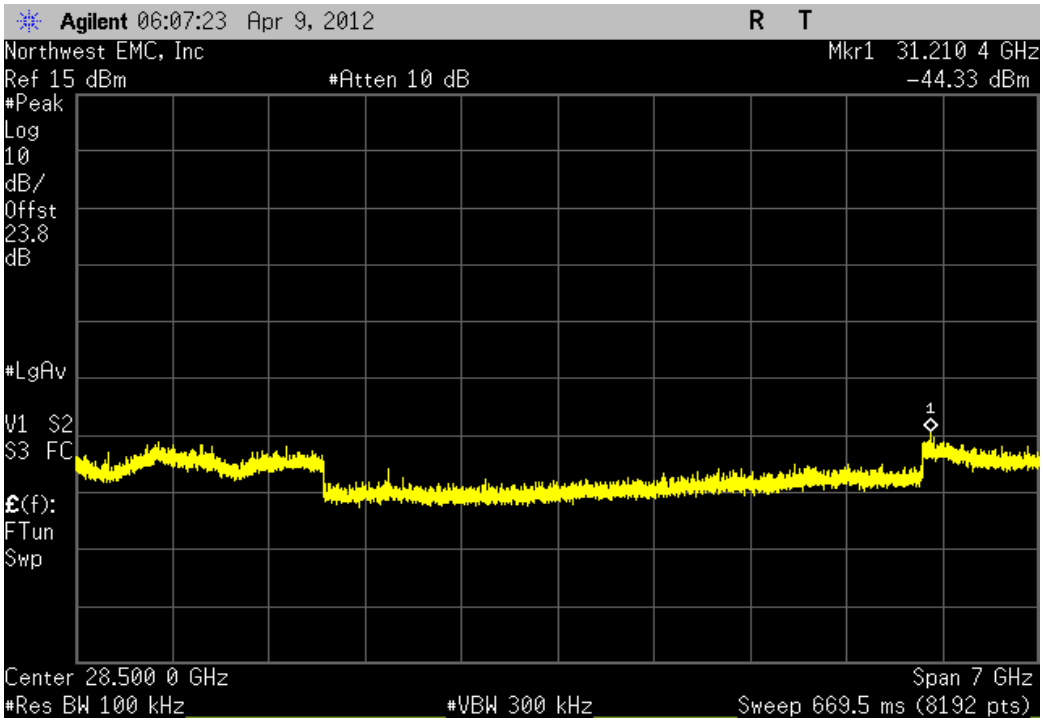
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz				
Frequency Range		**Value**	**Limit**	**Result**
30 MHz - 12.5 GHz		-34.62 dBc	≤ -20 dBc	Pass



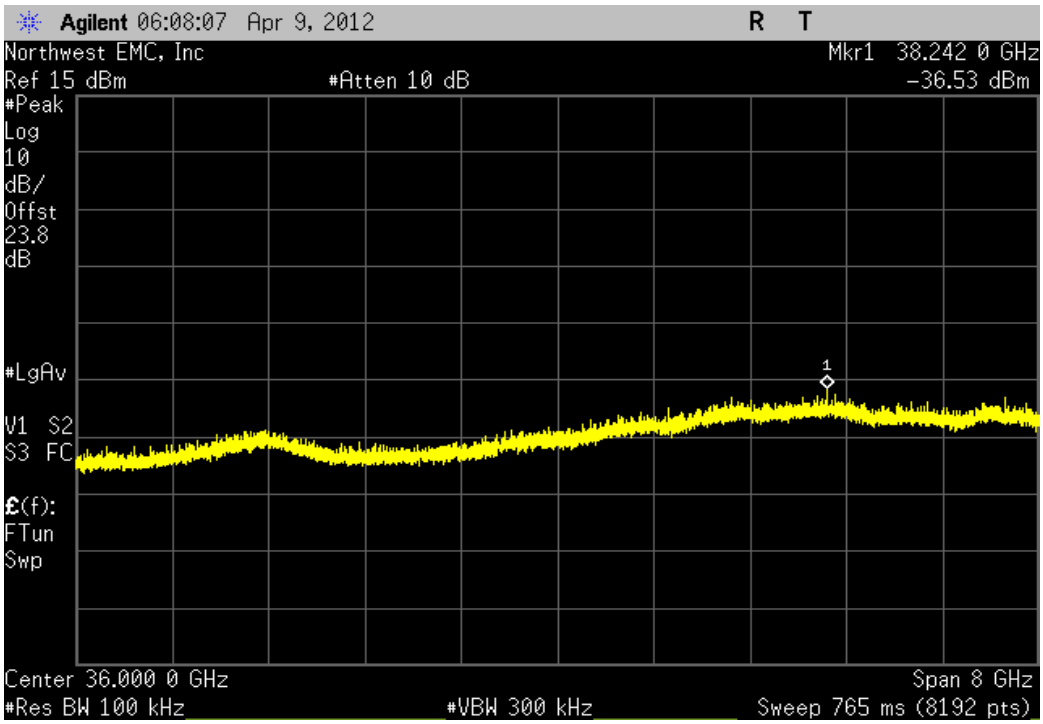
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz				
Frequency Range		**Value**	**Limit**	**Result**
12.5 GHz - 25 GHz		-30.5 dBc	≤ -20 dBc	Pass



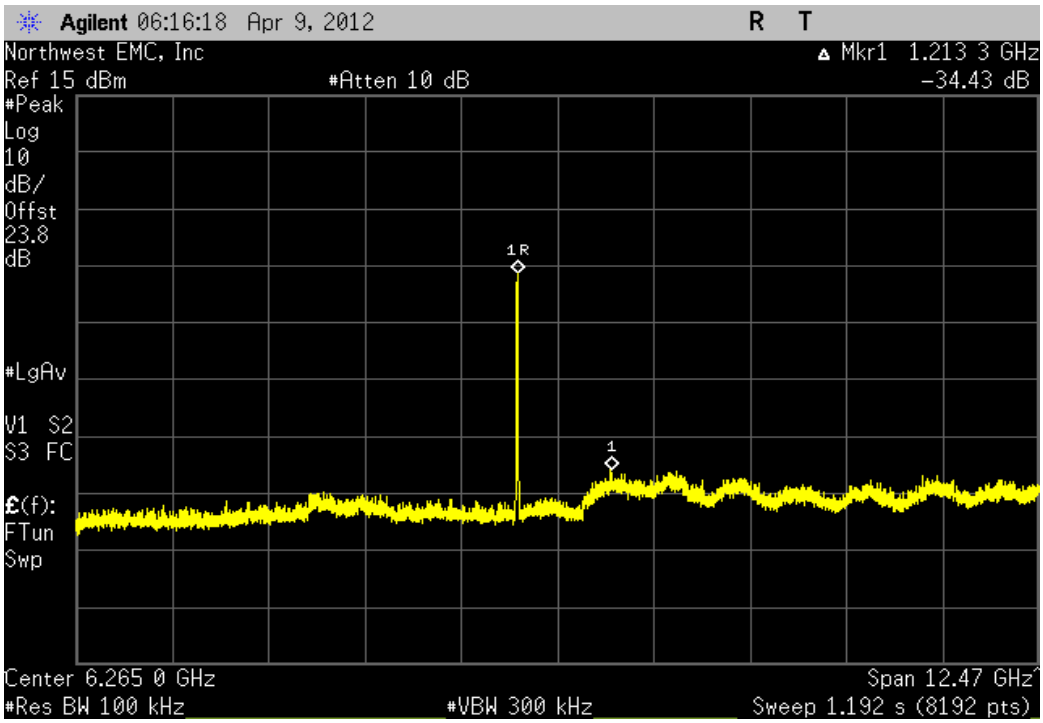
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz				
Frequency Range		**Value**	**Limit**	**Result**
25 GHz - 32 GHz		-28.41 dBc	≤ -20 dBc	Pass



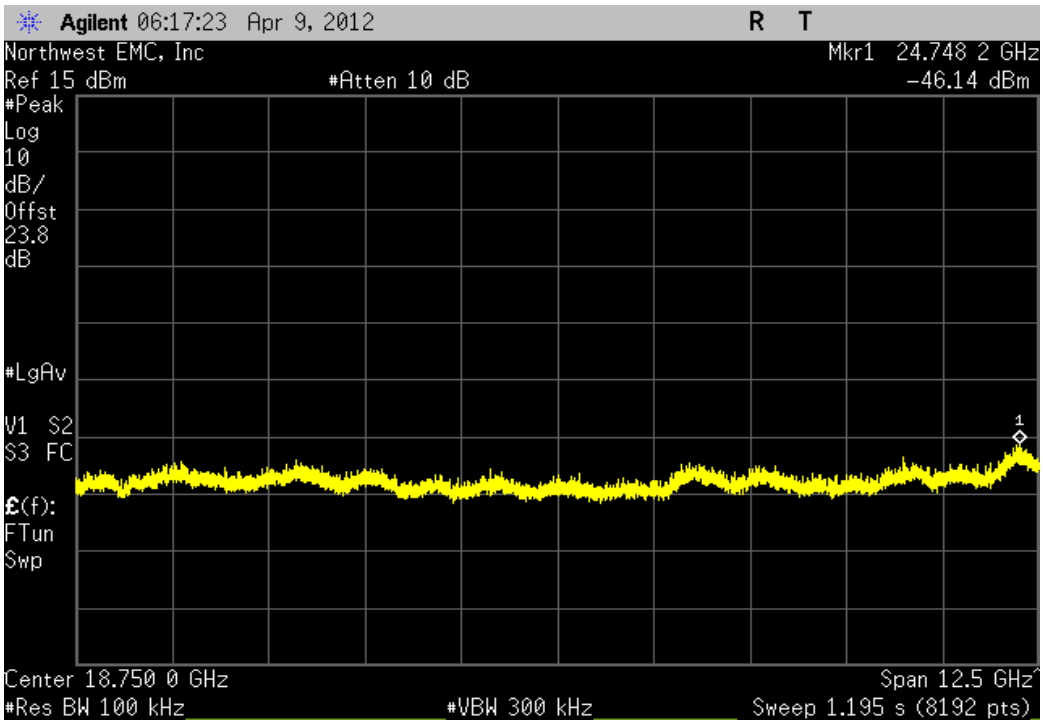
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz				
Frequency Range		**Value**	**Limit**	**Result**
32 GHz - 40 GHz		-20.62 dBc	≤ -20 dBc	Pass



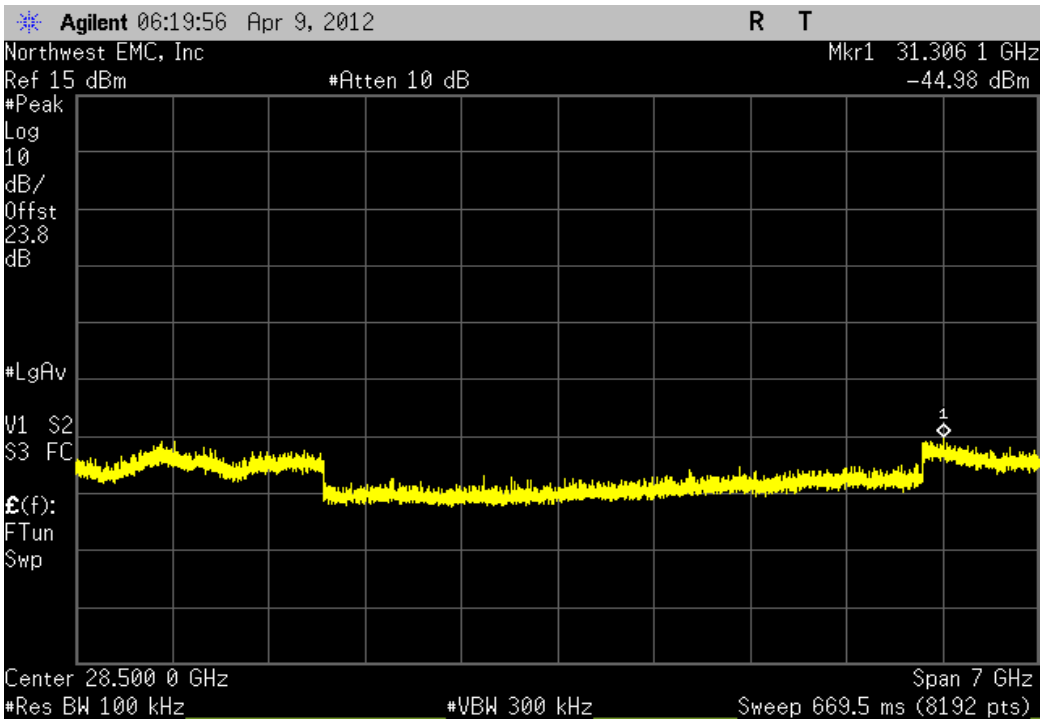
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		**Value**	**Limit**	**Result**
30 MHz - 12.5 GHz		-34.43 dBc	≤ -20 dBc	Pass



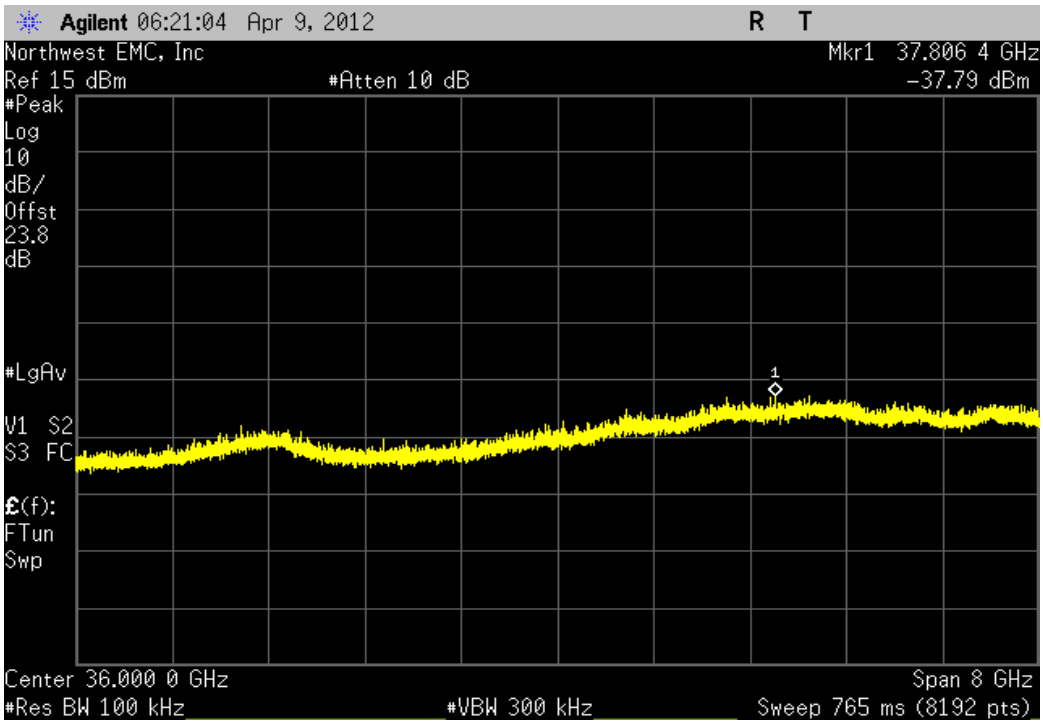
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		**Value**	**Limit**	**Result**
12.5 GHz - 25 GHz		-29.76 dBc	≤ -20 dBc	Pass



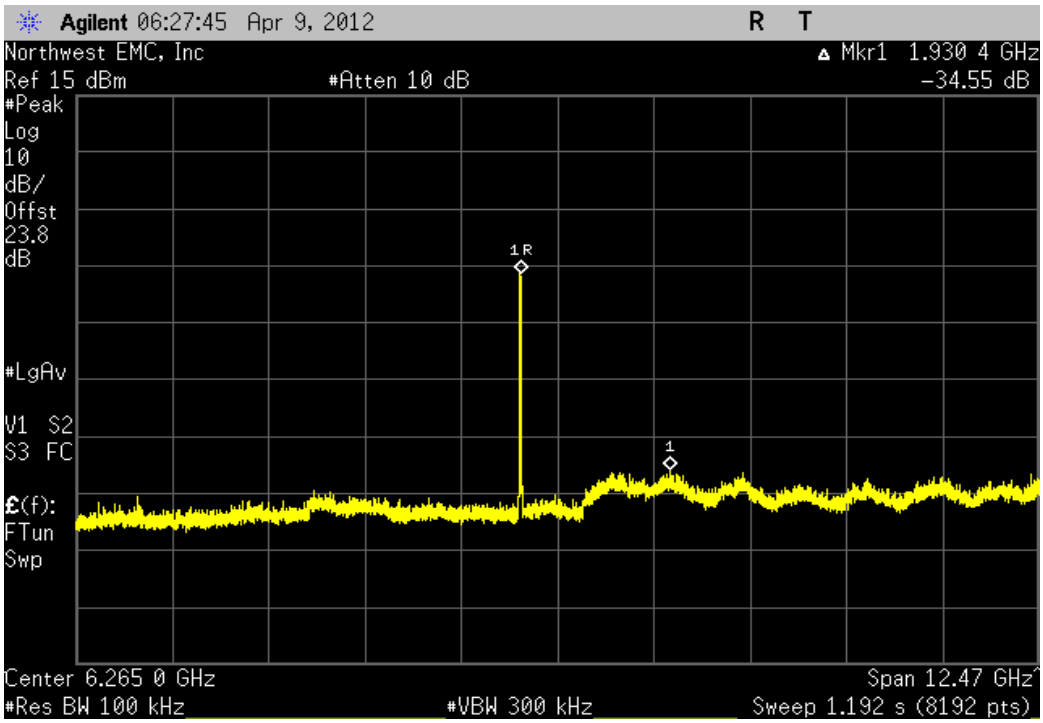
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		**Value**	**Limit**	**Result**
25 GHz - 32 GHz		-28.6 dBc	≤ -20 dBc	Pass



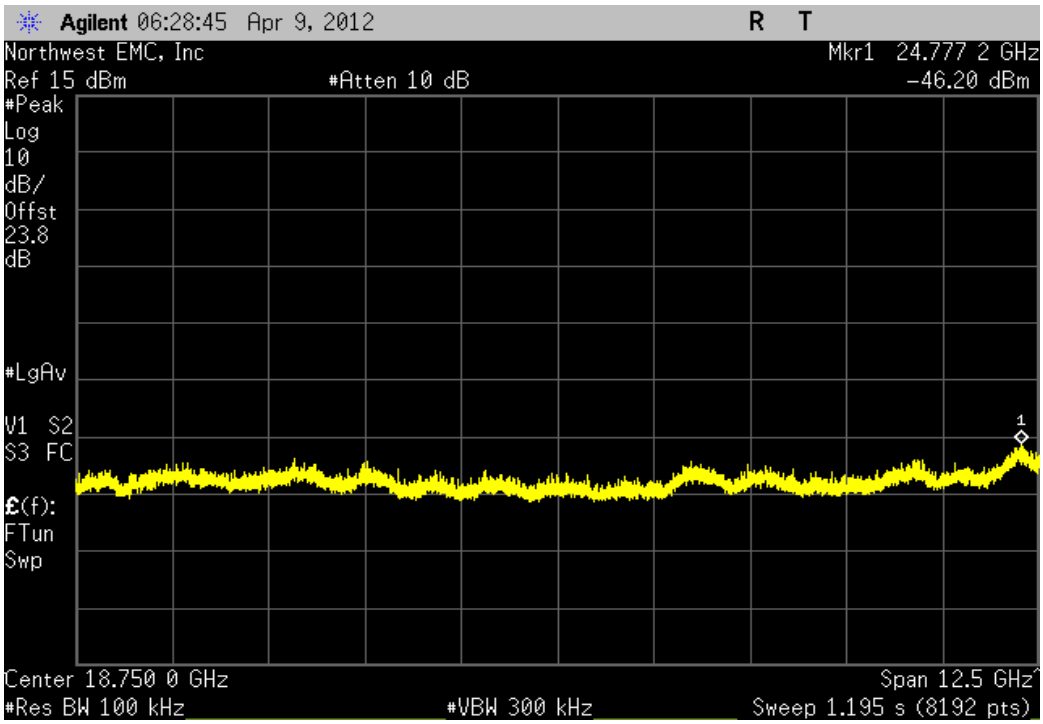
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		**Value**	**Limit**	**Result**
32 GHz - 40 GHz		-21.41 dBc	≤ -20 dBc	Pass



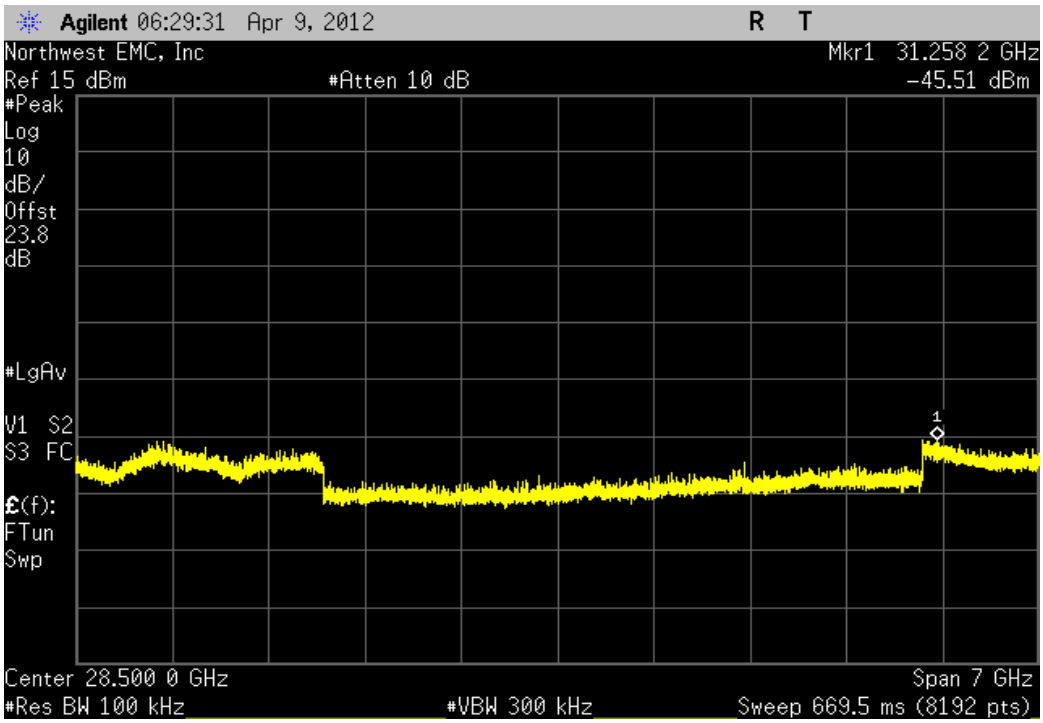
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		**Value**	**Limit**	**Result**
30 MHz - 12.5 GHz		-34.56 dBc	≤ -20 dBc	Pass



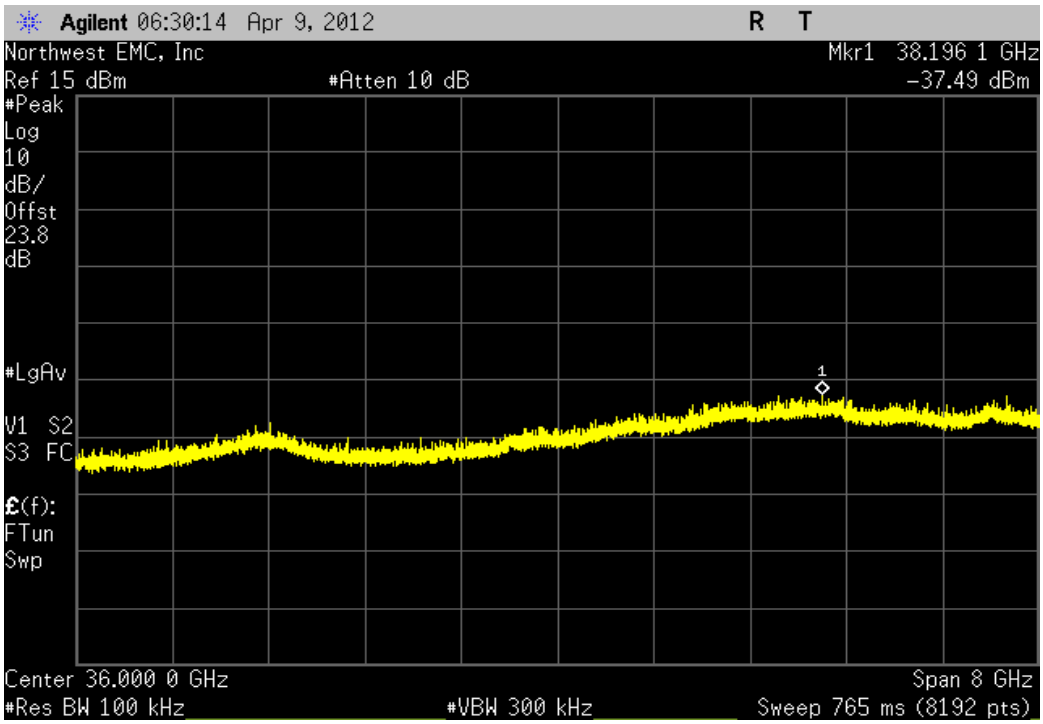
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		**Value**	**Limit**	**Result**
12.5 GHz - 25 GHz		-29.96 dBc	≤ -20 dBc	Pass



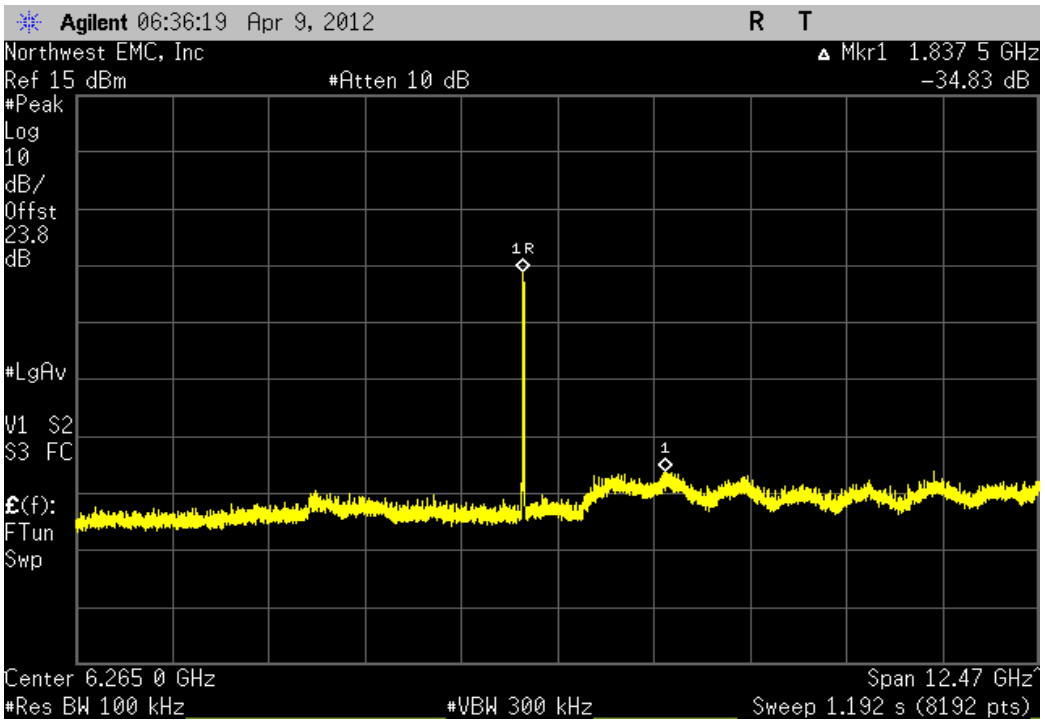
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		**Value**	**Limit**	**Result**
25 GHz - 32 GHz		-29.27 dBc	≤ -20 dBc	Pass



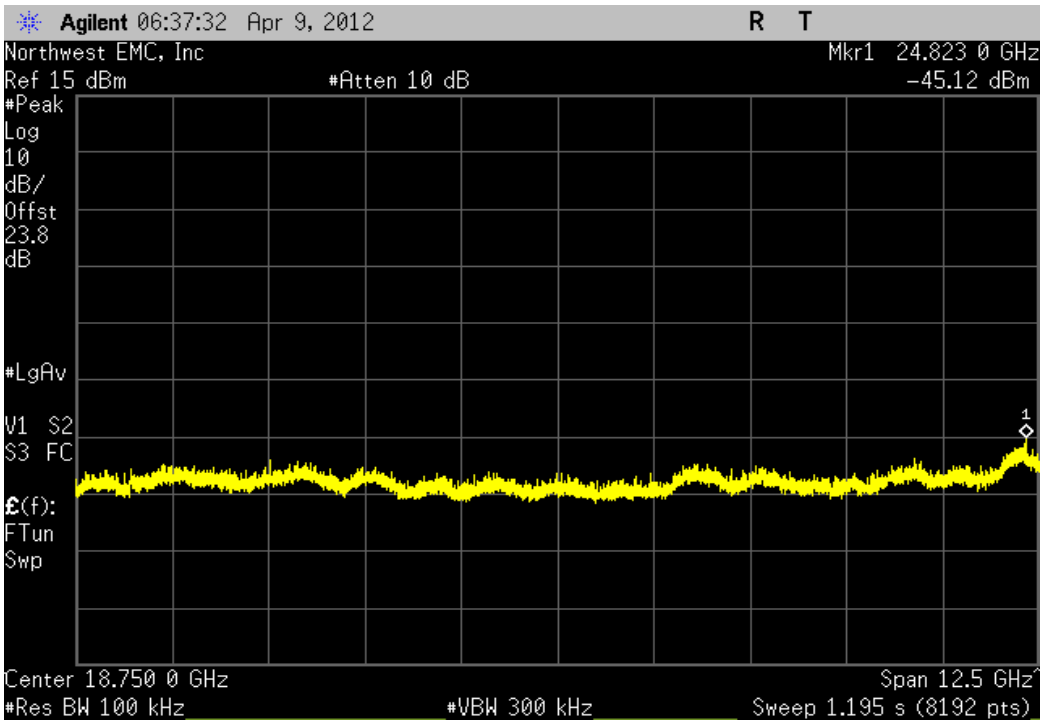
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		**Value**	**Limit**	**Result**
32 GHz - 40 GHz		-21.24 dBc	≤ -20 dBc	Pass



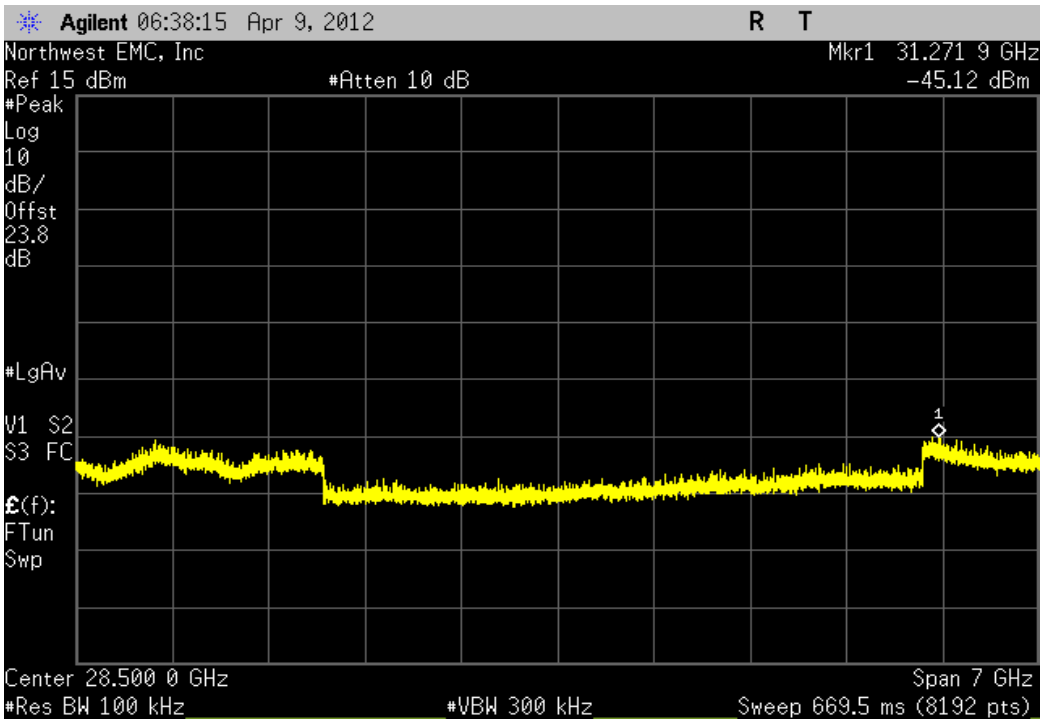
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz				
Frequency Range		**Value**	**Limit**	**Result**
30 MHz - 12.5 GHz		-34.83 dBc	≤ -20 dBc	Pass



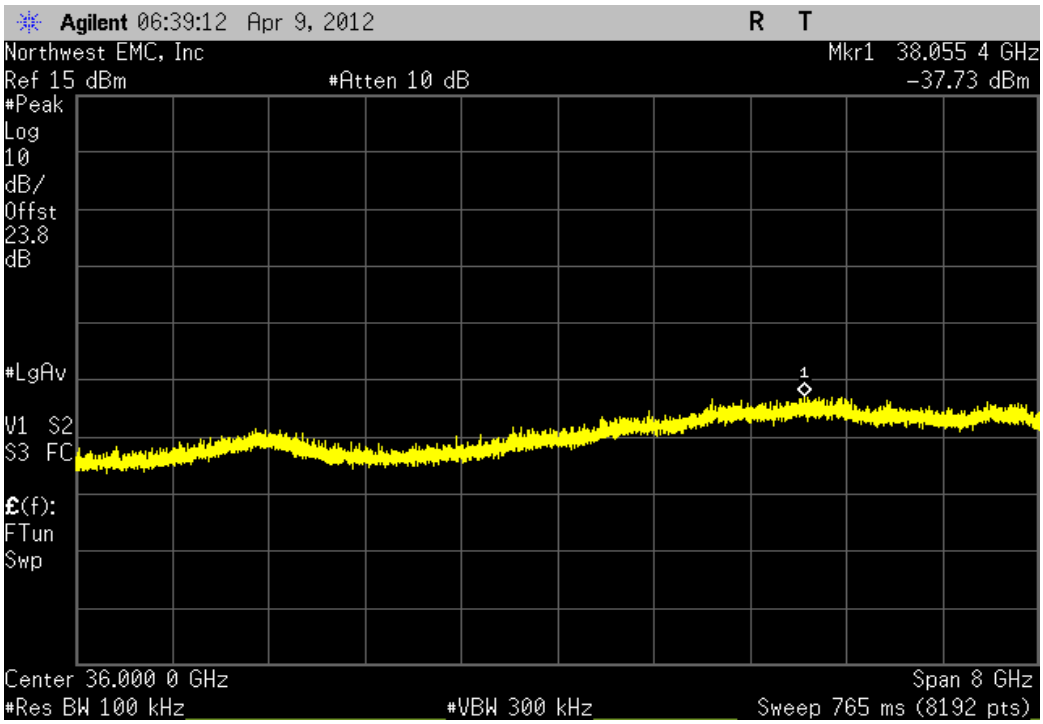
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz				
Frequency Range		**Value**	**Limit**	**Result**
12.5 GHz - 25 GHz		-28.97 dBc	≤ -20 dBc	Pass



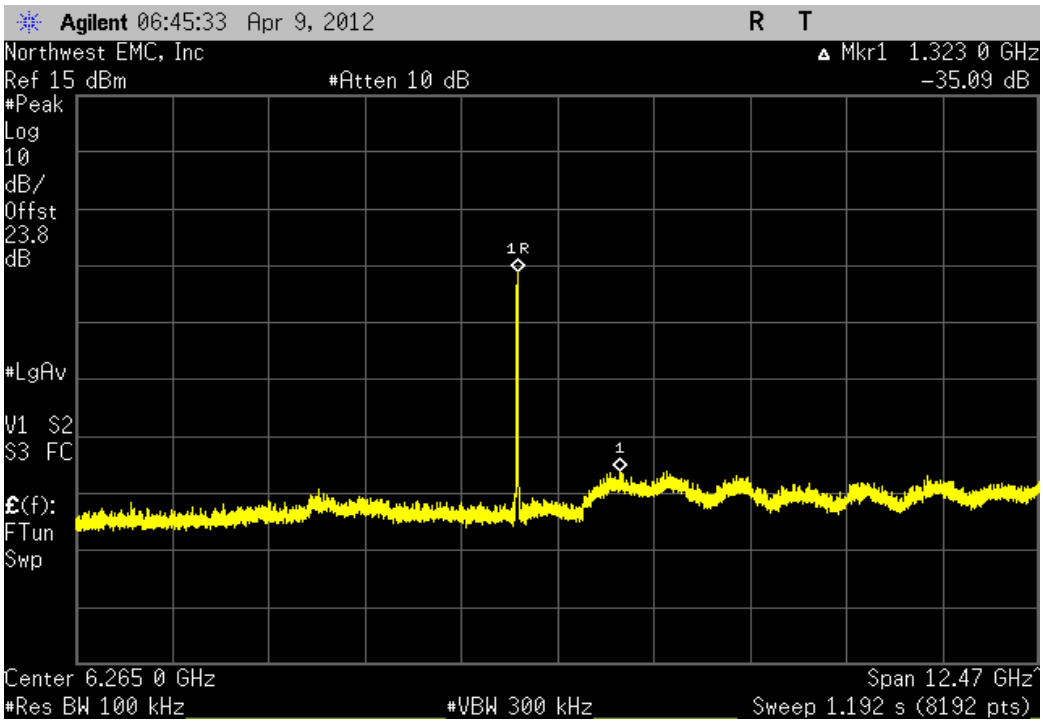
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz				
Frequency Range		**Value**	**Limit**	**Result**
25 GHz - 32 GHz		-28.97 dBc	≤ -20 dBc	Pass



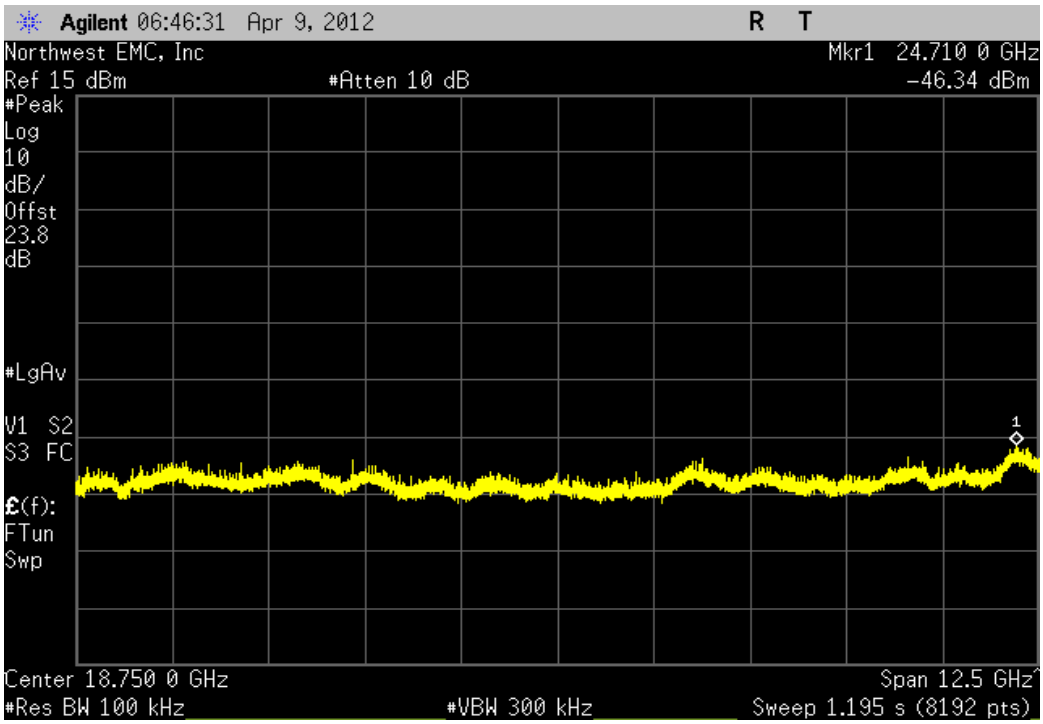
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz				
Frequency Range		**Value**	**Limit**	**Result**
32 GHz - 40 GHz		-21.58 dBc	≤ -20 dBc	Pass



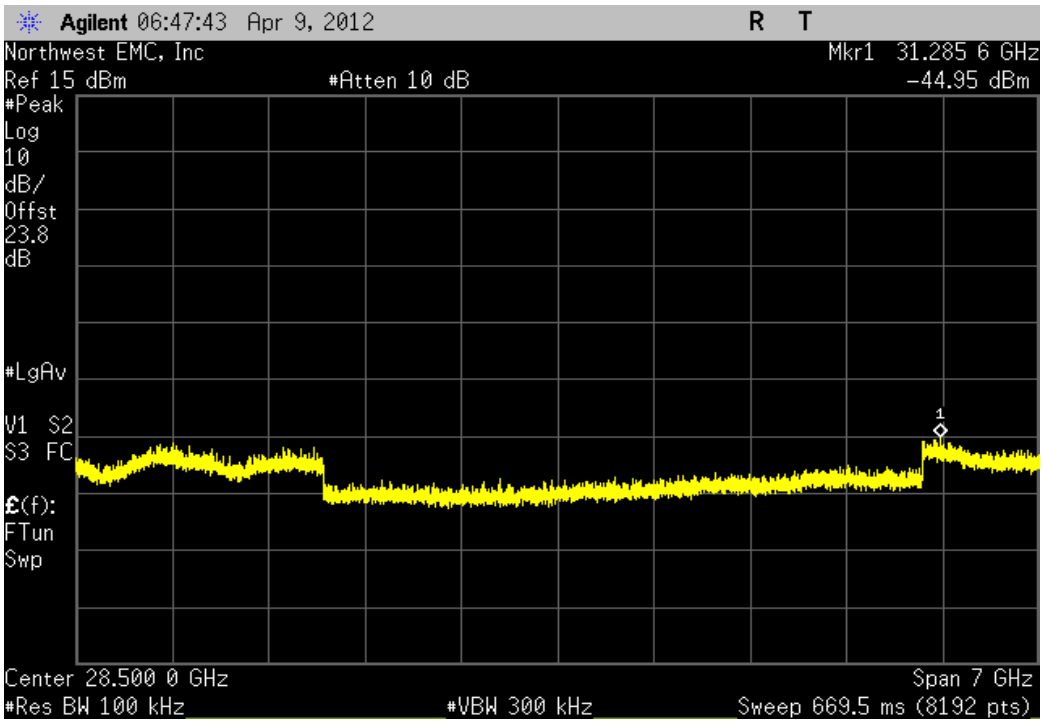
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		**Value**	**Limit**	**Result**
30 MHz - 12.5 GHz		-35.09 dBc	≤ -20 dBc	Pass



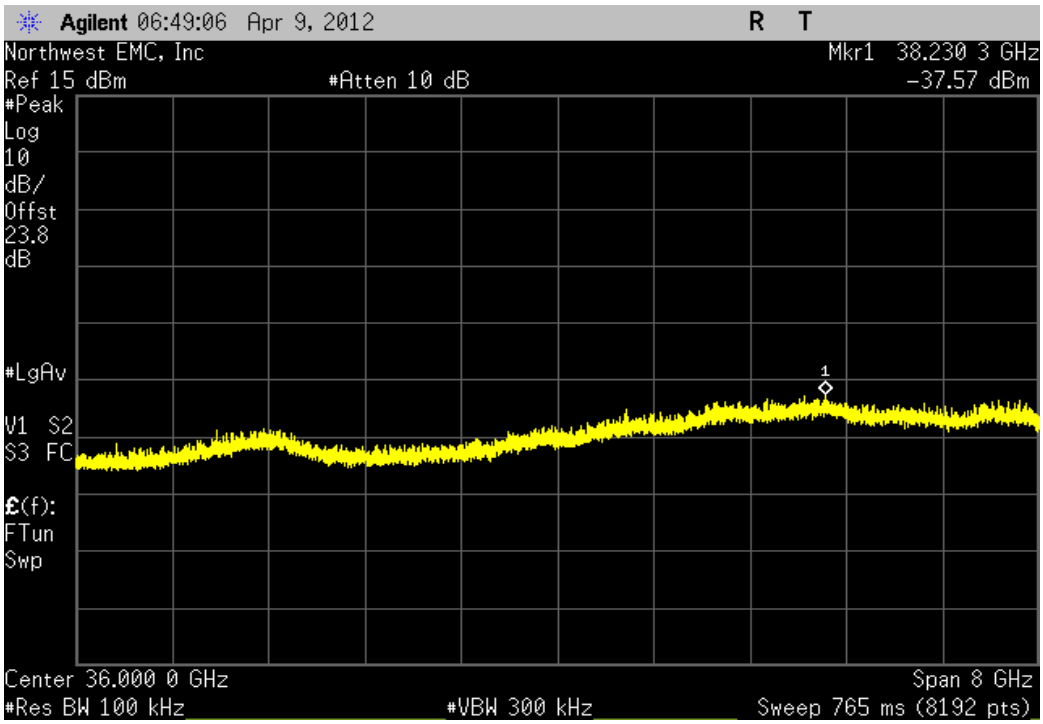
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		**Value**	**Limit**	**Result**
12.5 GHz - 25 GHz		-30.38 dBc	≤ -20 dBc	Pass



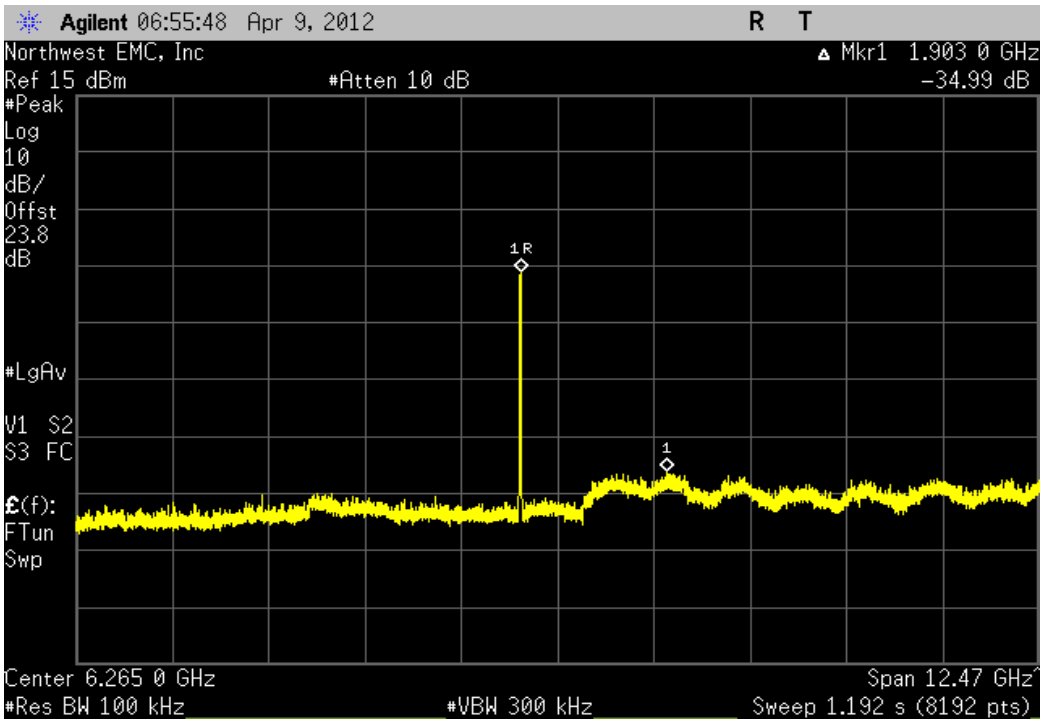
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		**Value**	**Limit**	**Result**
25 GHz - 32 GHz		-28.99 dBc	≤ -20 dBc	Pass



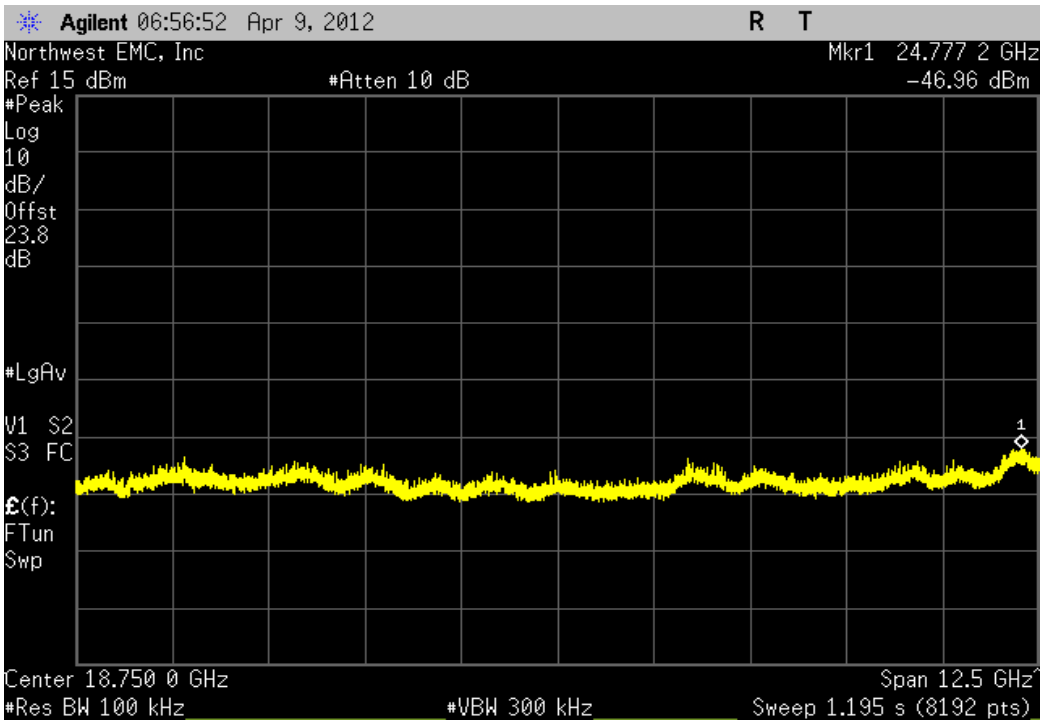
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz				
Frequency Range		**Value**	**Limit**	**Result**
32 GHz - 40 GHz		-21.61 dBc	≤ -20 dBc	Pass



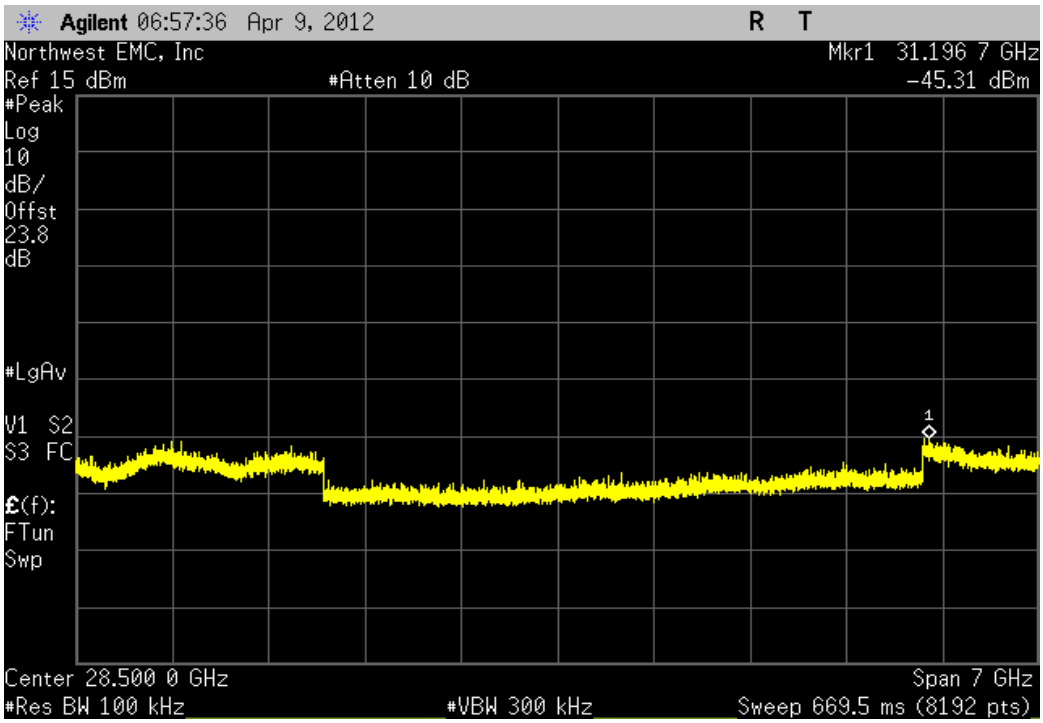
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		**Value**	**Limit**	**Result**
30 MHz - 12.5 GHz		-34.99 dBc	≤ -20 dBc	Pass



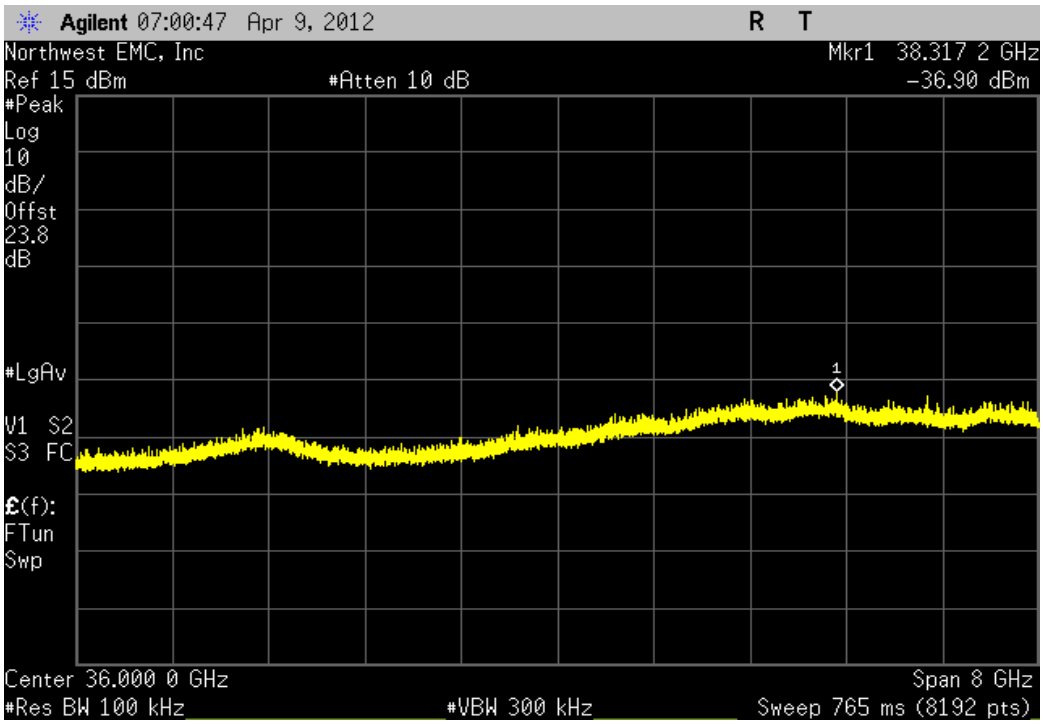
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		**Value**	**Limit**	**Result**
12.5 GHz - 25 GHz		-30.86 dBc	≤ -20 dBc	Pass



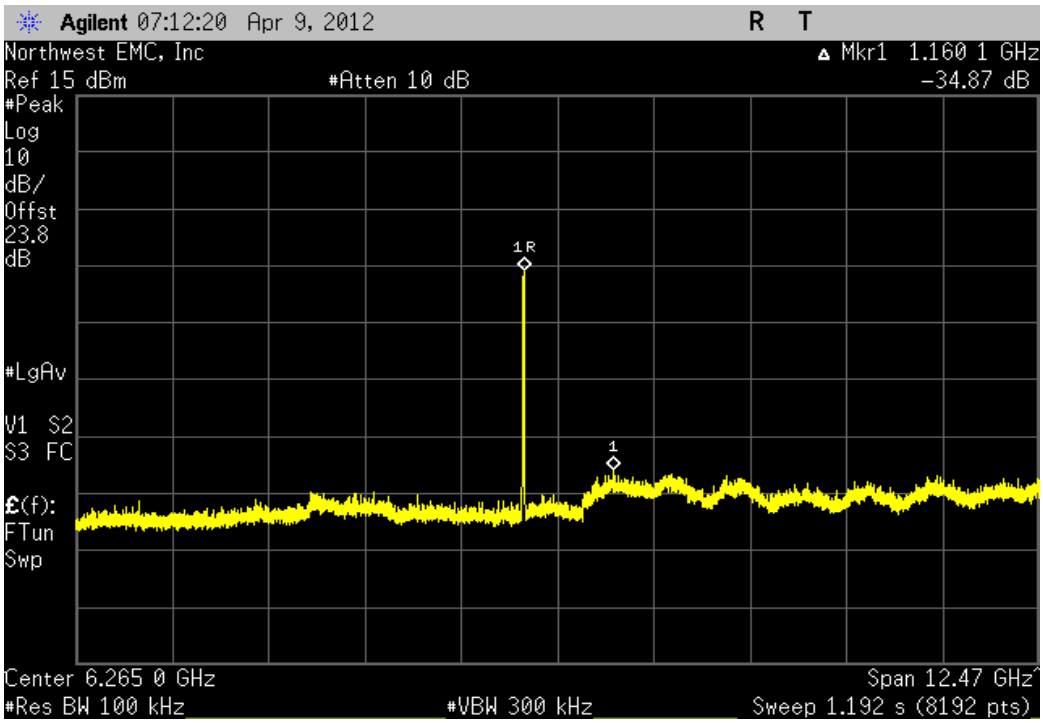
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		**Value**	**Limit**	**Result**
25 GHz - 32 GHz		-29.21 dBc	≤ -20 dBc	Pass



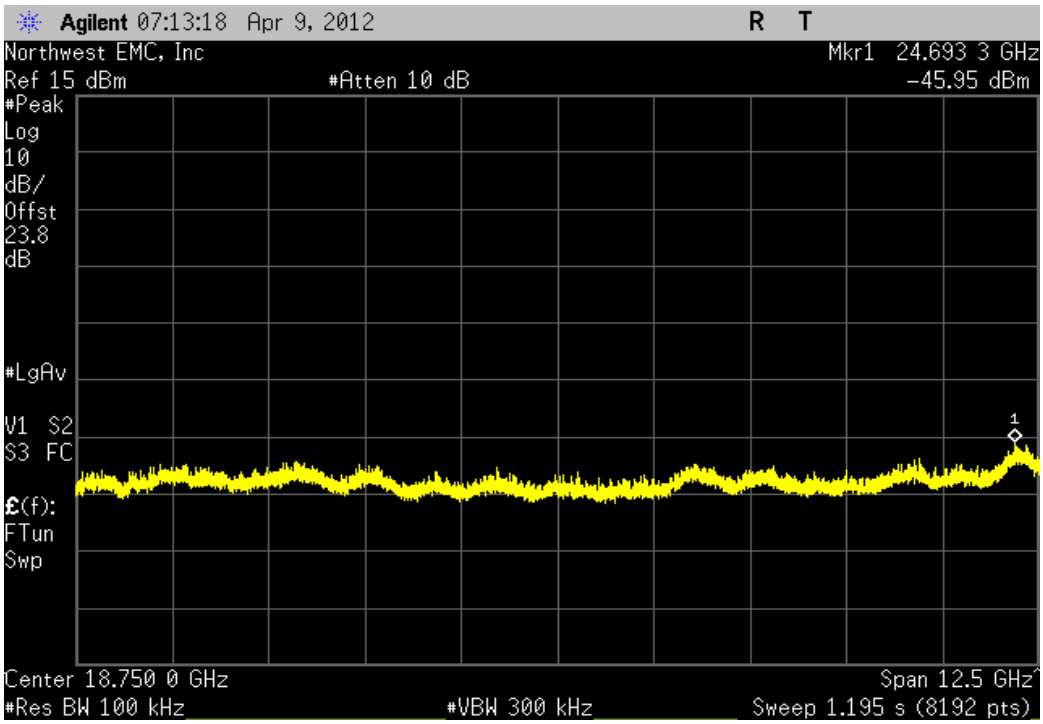
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz				
Frequency Range		**Value**	**Limit**	**Result**
32 GHz - 40 GHz		-20.8 dBc	≤ -20 dBc	Pass



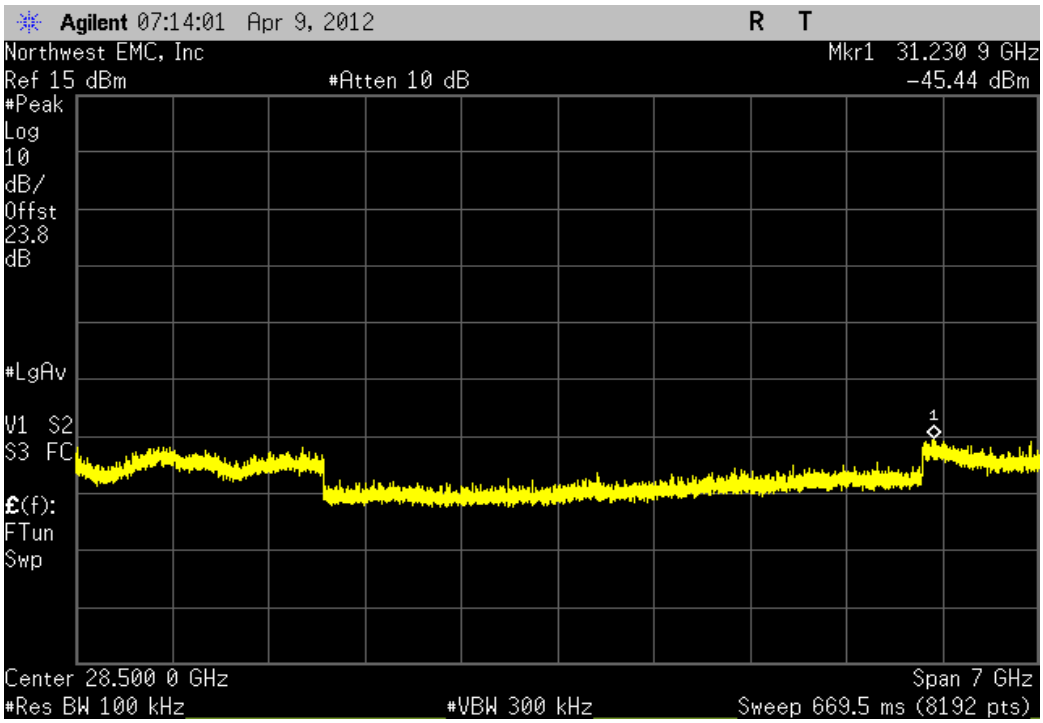
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz				
Frequency Range		**Value**	**Limit**	**Result**
30 MHz - 12.5 GHz		-34.87 dBc	≤ -20 dBc	Pass



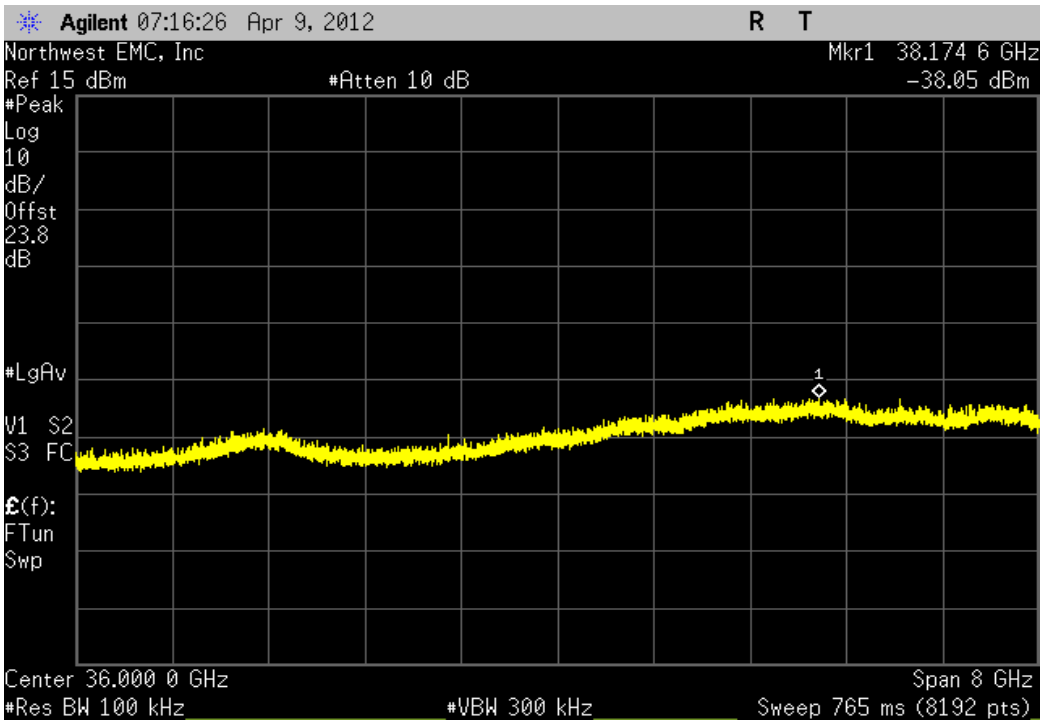
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz				
Frequency Range		**Value**	**Limit**	**Result**
12.5 GHz - 25 GHz		-30.1 dBc	≤ -20 dBc	Pass



5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz				
Frequency Range		**Value**	**Limit**	**Result**
25 GHz - 32 GHz		-29.59 dBc	≤ -20 dBc	Pass



5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz				
Frequency Range		**Value**	**Limit**	**Result**
32 GHz - 40 GHz		-22.2 dBc	≤ -20 dBc	Pass



Power Spectral Density

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Signal Generator	Agilent	E8257D	TGU	2/1/2012	12
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	6/2/2011	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	10/12/2011	12
Spectrum Analyzer	Agilent	E4446A	AAY	1/9/2012	12

MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

The peak power spectral density measurements were measured with the EUT set to the required transmit frequencies in each band. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the lowest, middle, and maximum data rate for each modulation type available. Per the procedure outlined in FCC KDB 558074, March 23, 2005, the spectrum analyzer was used as follows:

The emission peak(s) were located and zoom in on within the passband. The resolution bandwidth was set to 3 kHz, the video bandwidth was set to greater than or equal to the resolution bandwidth. The sweep speed was set equal to the span divided by 3 kHz (sweep = (SPAN/3 kHz)). For example, given a span of 1.5 MHz, the sweep should be $1.5 \times 10^6 \div 3 \times 103 = 500$ seconds. External attenuation was used and added to the reading. The following FCC procedure was used for modifying the power spectral density measurements:

"*If the spectrum line spacing cannot be resolved on the available spectrum analyzer, the noise density function on most modern conventional spectrum analyzers will directly measure the noise power density normalized to a 1 Hz noise power bandwidth. Add 34.8 dB for correction to 3 kHz.*"

Power Spectral Density

EUT:	RAD7CA			**Work Order:**	MASI0095
Serial Number:	34996 Rev C			**Date:**	04/27/12
Customer:	Masimo Corporation			**Temperature:**	22.84 C°C
Attendees:	none			**Humidity:**	38%
Project:	None			**Barometric Pres.:**	1014.4
Tested by:	Jaemi Suh	**Power:**	110VAC/60Hz	**Job Site:**	OC10

TEST SPECIFICATIONS	Test Method
FCC 15.247:2012	ANSI C63.10:2009

COMMENTS

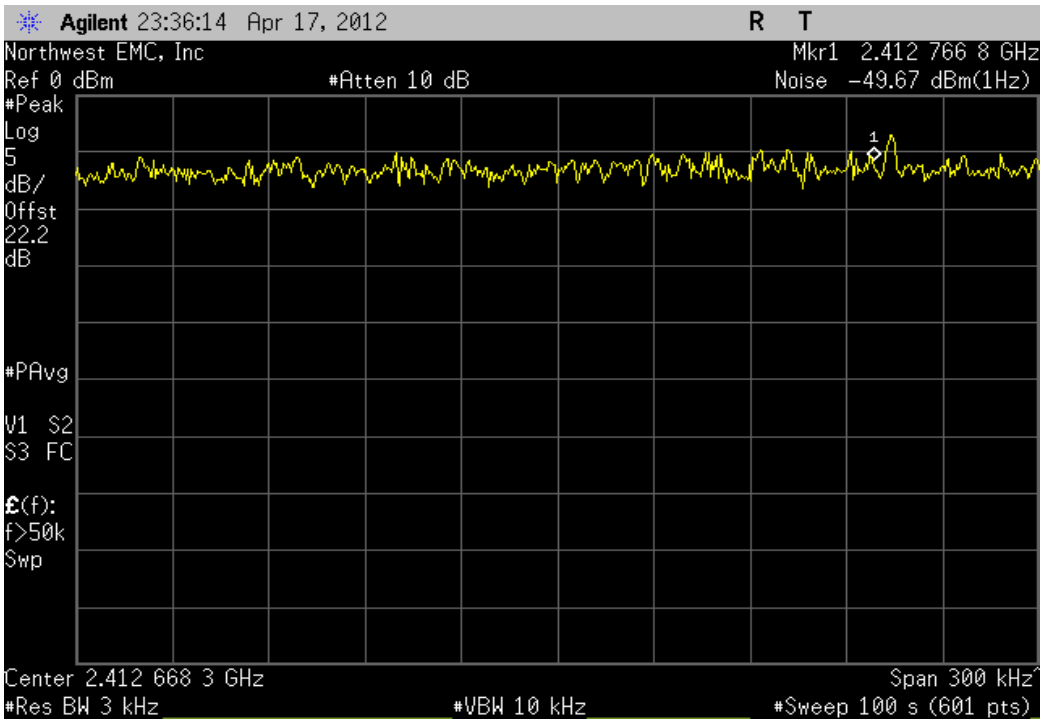
Power Setting = 99. Port 2

DEVIATIONS FROM TEST STANDARD

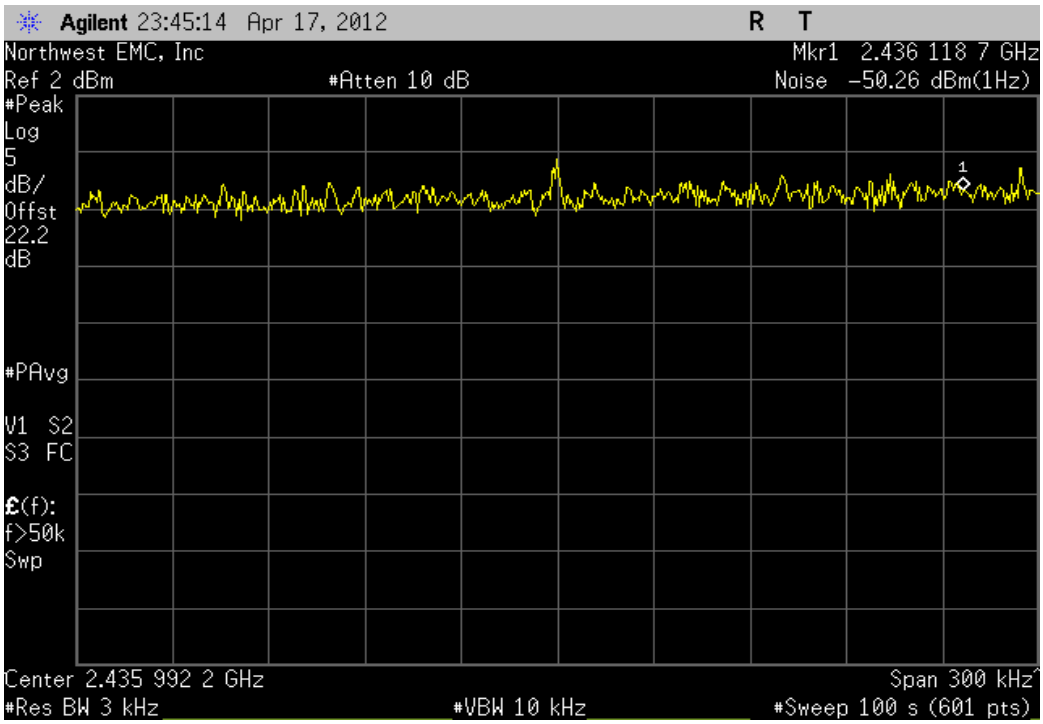
Configuration #	1	Signature

	Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
2400 MHz - 2483.5 MHz Band					
802.11(b) 1 Mbps					
Low Channel 1, 2412 MHz	-49.668	34.8	-14.868	8	Pass
Mid Channel 6, 2437 MHz	-50.258	34.8	-15.458	8	Pass
High Channel 11, 2462 MHz	-48.982	34.8	-14.182	8	Pass
802.11(b) 11 Mbps					
Low Channel 1, 2412 MHz	-51.063	34.8	-16.263	8	Pass
Mid Channel 6, 2437 MHz	-50.469	34.8	-15.669	8	Pass
High Channel 11, 2462 MHz	-50.15	34.8	-15.35	8	Pass
802.11(g) 6 Mbps					
Low Channel 1, 2412 MHz	-54.072	34.8	-19.272	8	Pass
Mid Channel 6, 2437 MHz	-53.522	34.8	-18.722	8	Pass
High Channel 11, 2462 MHz	-53.144	34.8	-18.344	8	Pass
802.11(g) 36 Mbps					
Low Channel 1, 2412 MHz	-53.832	34.8	-19.032	8	Pass
Mid Channel 6, 2437 MHz	-53.473	34.8	-18.673	8	Pass
High Channel 11, 2462 MHz	-53.393	34.8	-18.593	8	Pass
802.11(g) 54 Mbps					
Low Channel 1, 2412 MHz	-54.421	34.8	-19.621	8	Pass
Mid Channel 6, 2437 MHz	-53.906	34.8	-19.106	8	Pass
High Channel 11, 2462 MHz	-53.334	34.8	-18.534	8	Pass
5725 MHz - 5850 MHz Band					
802.11(a) 6 Mbps					
Low Channel 149, 5745 MHz	-59.353	34.8	-24.553	8	Pass
Mid Channel 157, 5785 MHz	-59.445	34.8	-24.645	8	Pass
High Channel 165, 5825 MHz	-59.785	34.8	-24.985	8	Pass
802.11(a) 36 Mbps					
Low Channel 149, 5745 MHz	-59.197	34.8	-24.397	8	Pass
Mid Channel 157, 5785 MHz	-59.366	34.8	-24.566	8	Pass
High Channel 165, 5825 MHz	-59.74	34.8	-24.94	8	Pass
802.11(a) 54 Mbps					
Low Channel 149, 5745 MHz	-59.208	34.8	-24.408	8	Pass
Mid Channel 157, 5785 MHz	-59.355	34.8	-24.555	8	Pass
High Channel 165, 5825 MHz	-59.786	34.8	-24.986	8	Pass

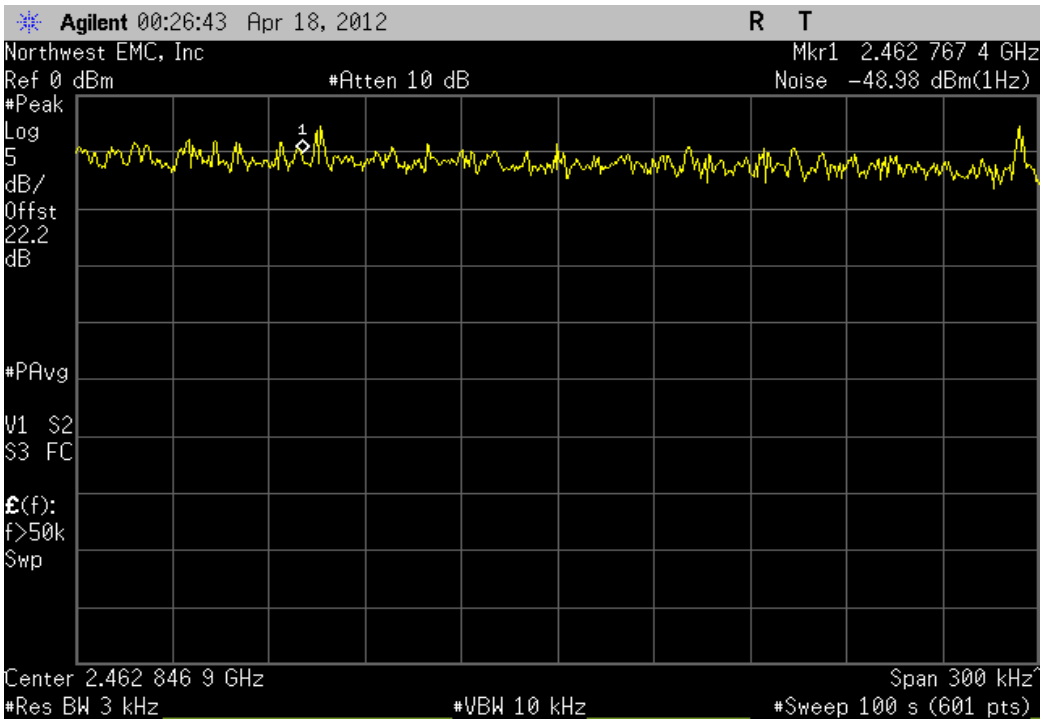
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
		Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
		-49.668	34.8	-14.868	8	Pass



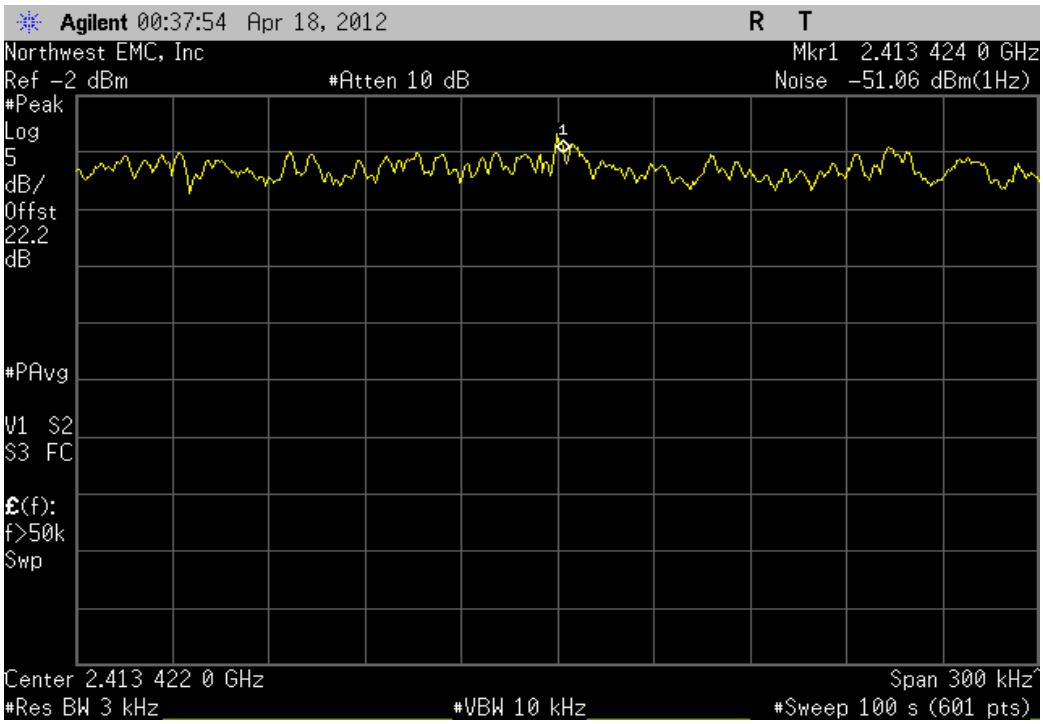
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz						
		Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
		-50.258	34.8	-15.458	8	Pass



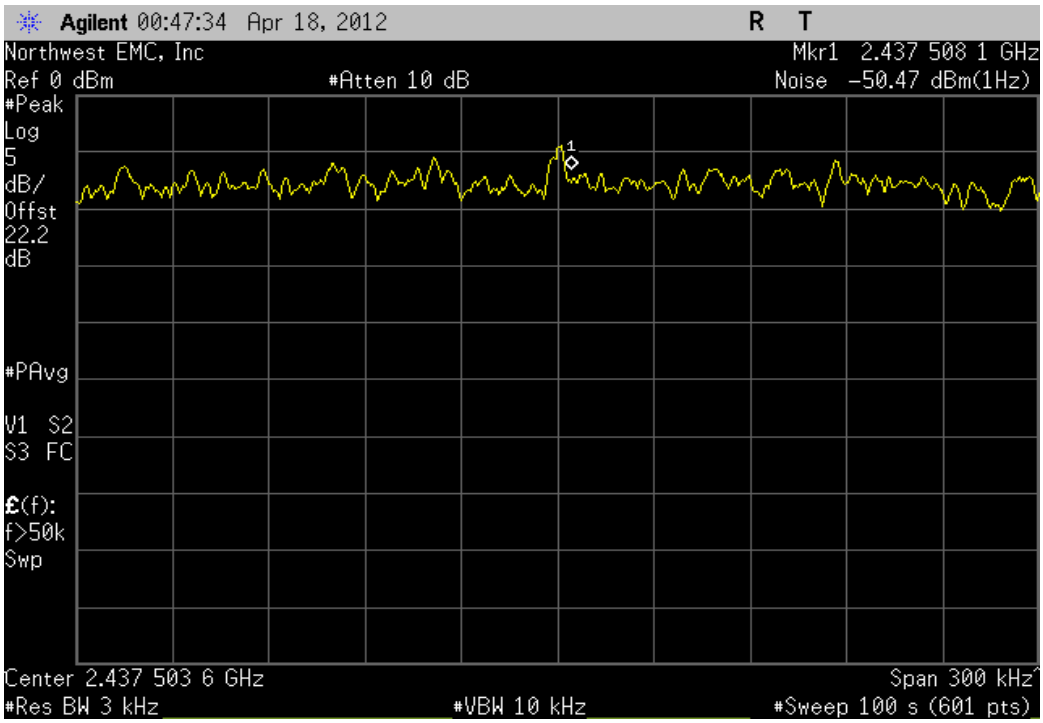
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
		Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
		-48.982	34.8	-14.182	8	Pass



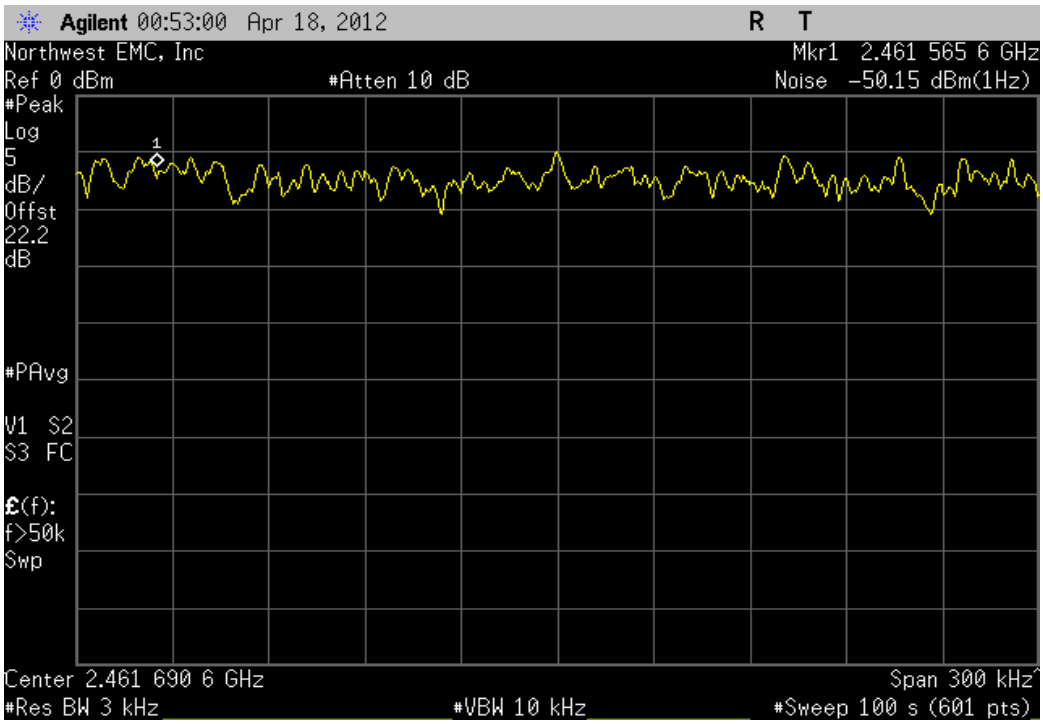
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz						
		Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
		-51.063	34.8	-16.263	8	Pass



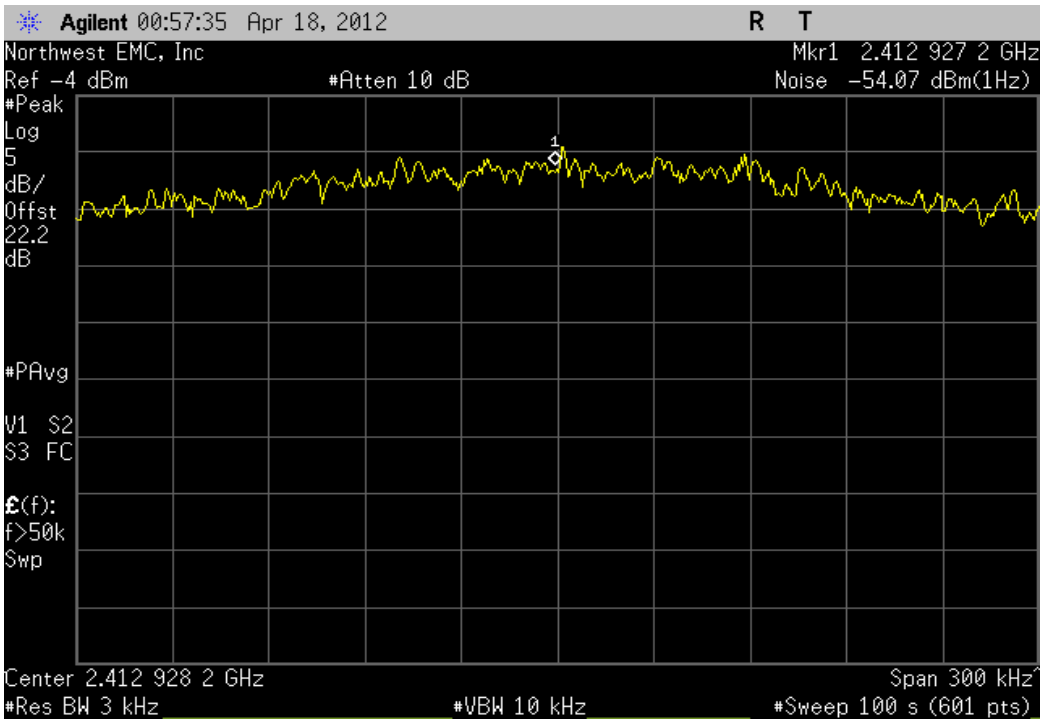
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
		Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
		-50.469	34.8	-15.669	8	Pass



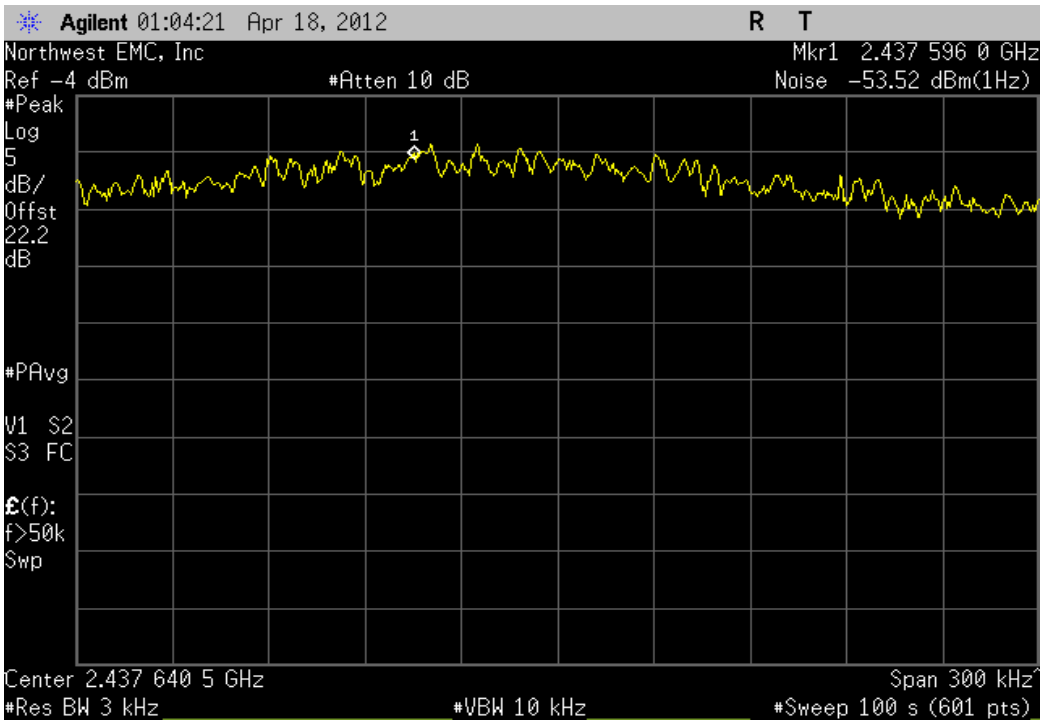
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz						
		Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
		-50.15	34.8	-15.35	8	Pass



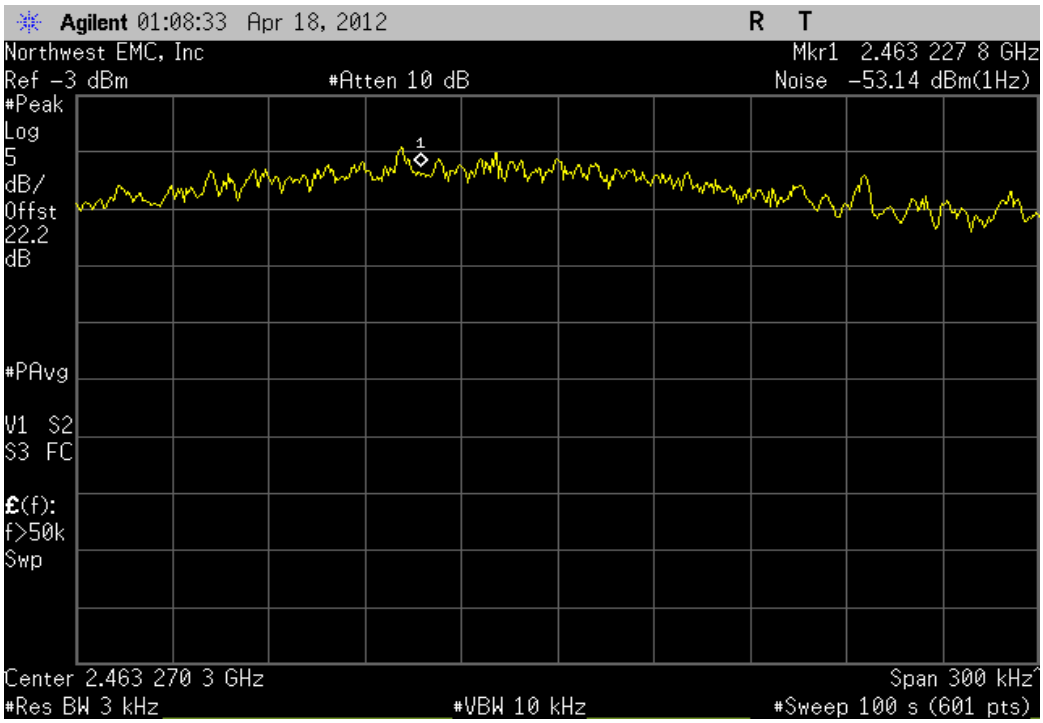
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
		Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
		-54.072	34.8	-19.272	8	Pass



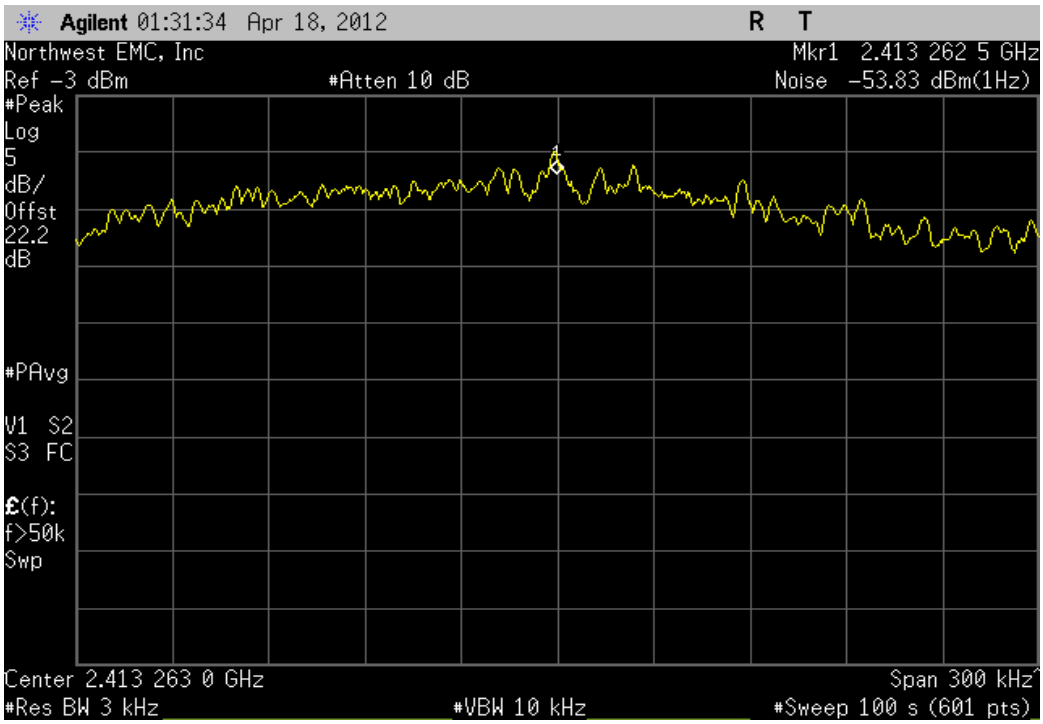
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz						
		Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
		-53.522	34.8	-18.722	8	Pass



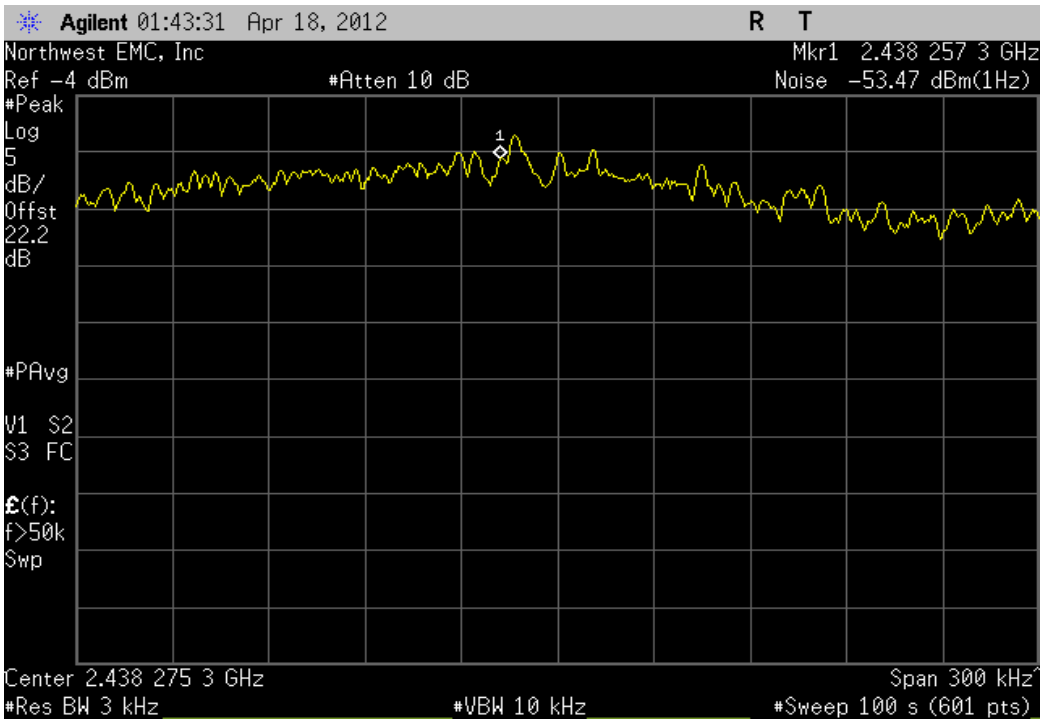
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
		Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
		-53.144	34.8	-18.344	8	Pass



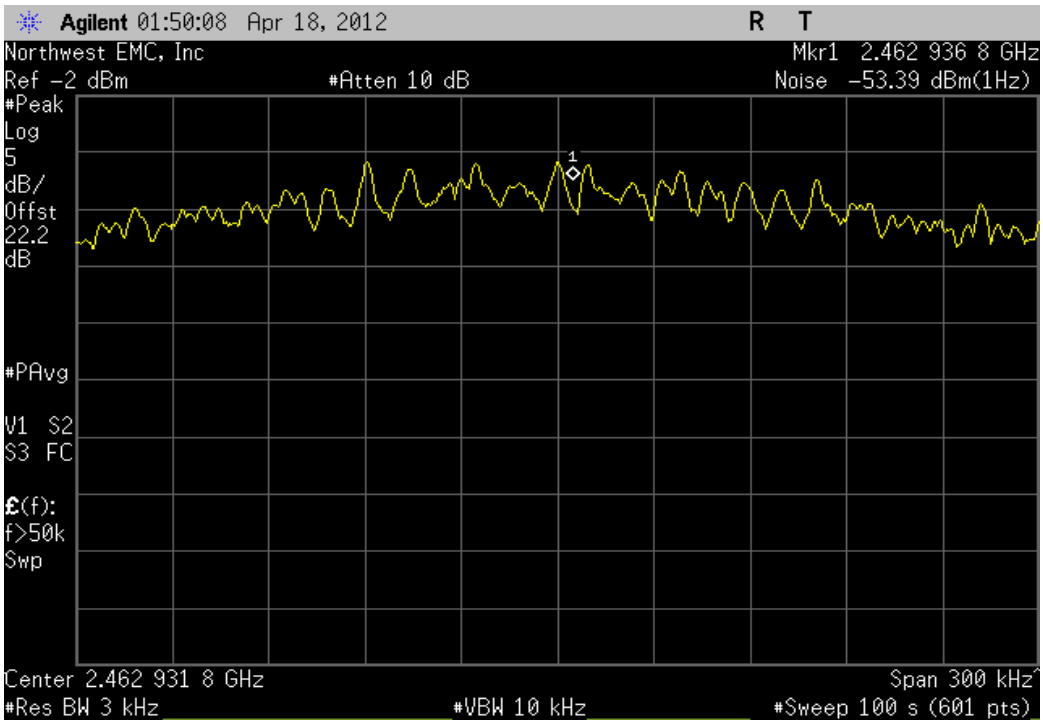
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz						
		Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
		-53.832	34.8	-19.032	8	Pass



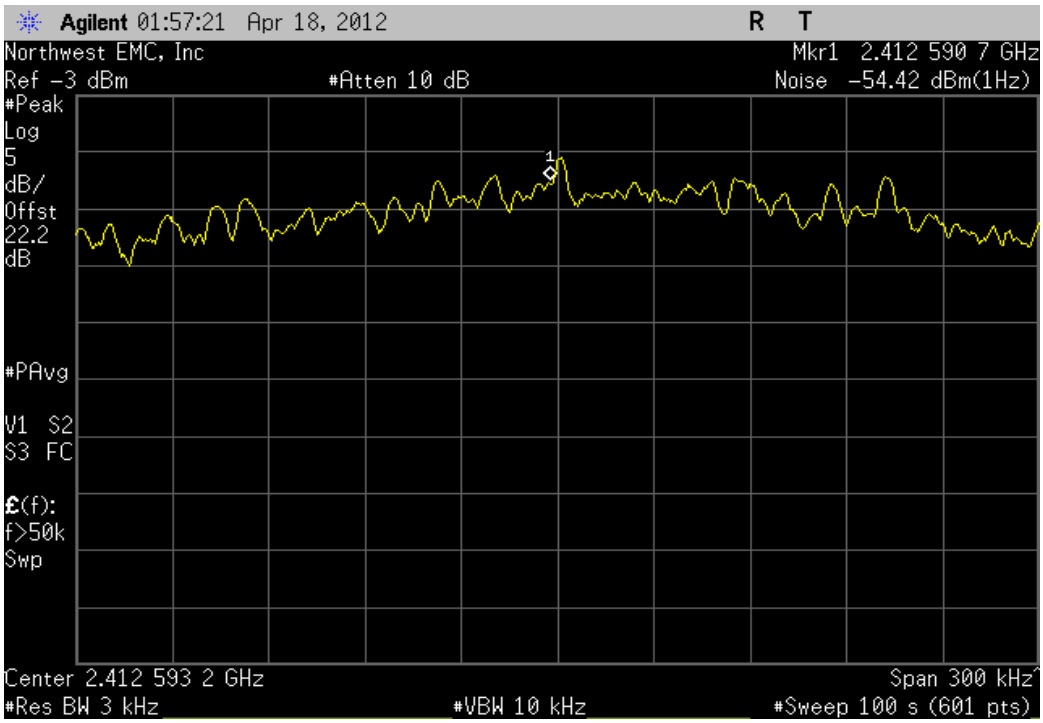
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
		Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
		-53.473	34.8	-18.673	8	Pass



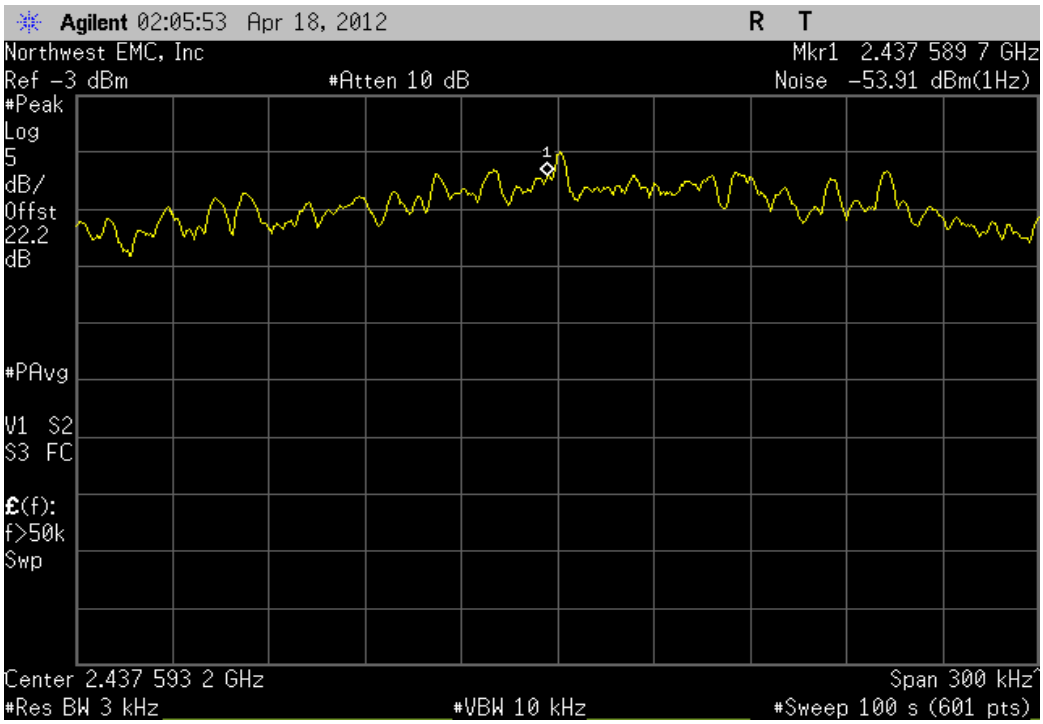
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz						
		Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
		-53.393	34.8	-18.593	8	Pass



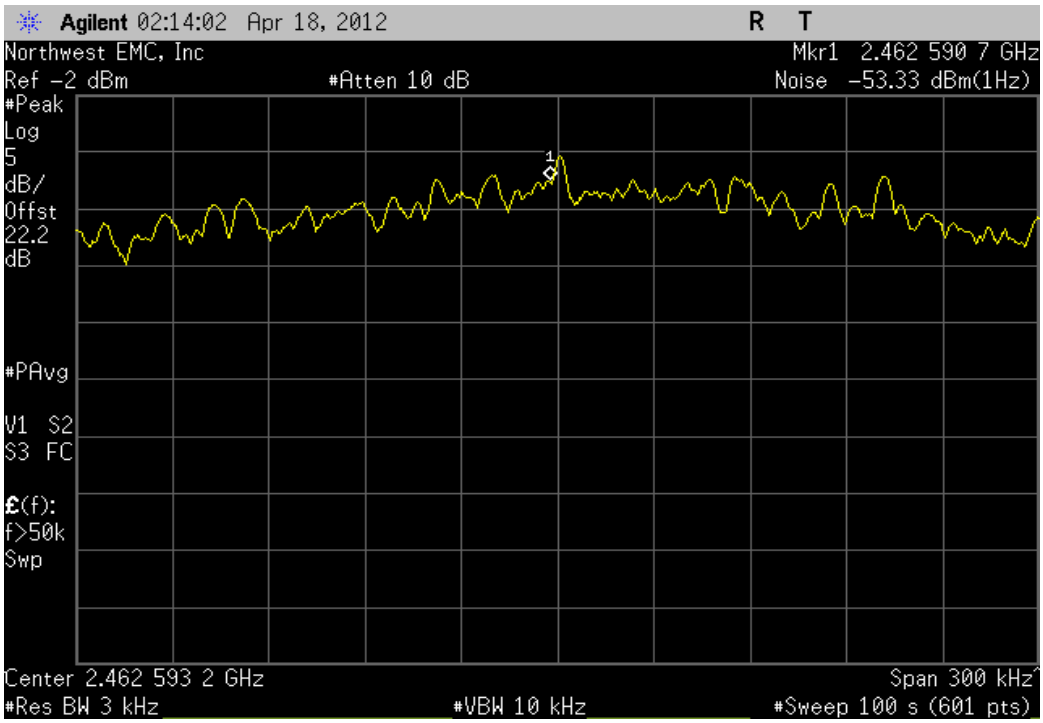
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
		Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
		-54.421	34.8	-19.621	8	Pass



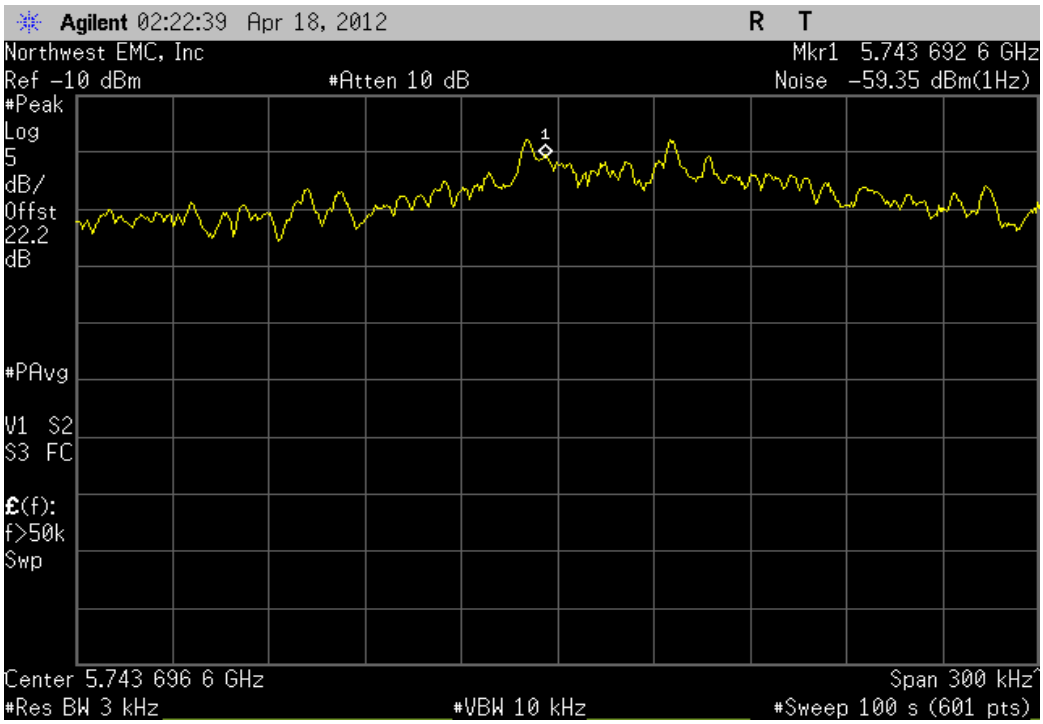
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz						
		Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
		-53.906	34.8	-19.106	8	Pass



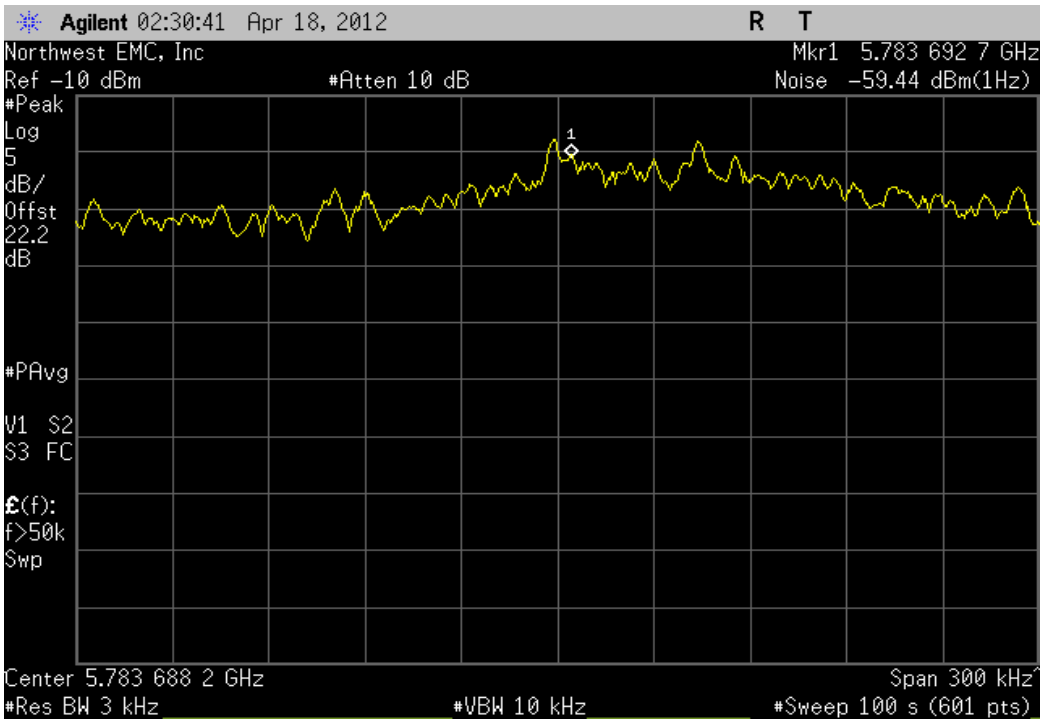
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
		Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
		-53.334	34.8	-18.534	8	Pass



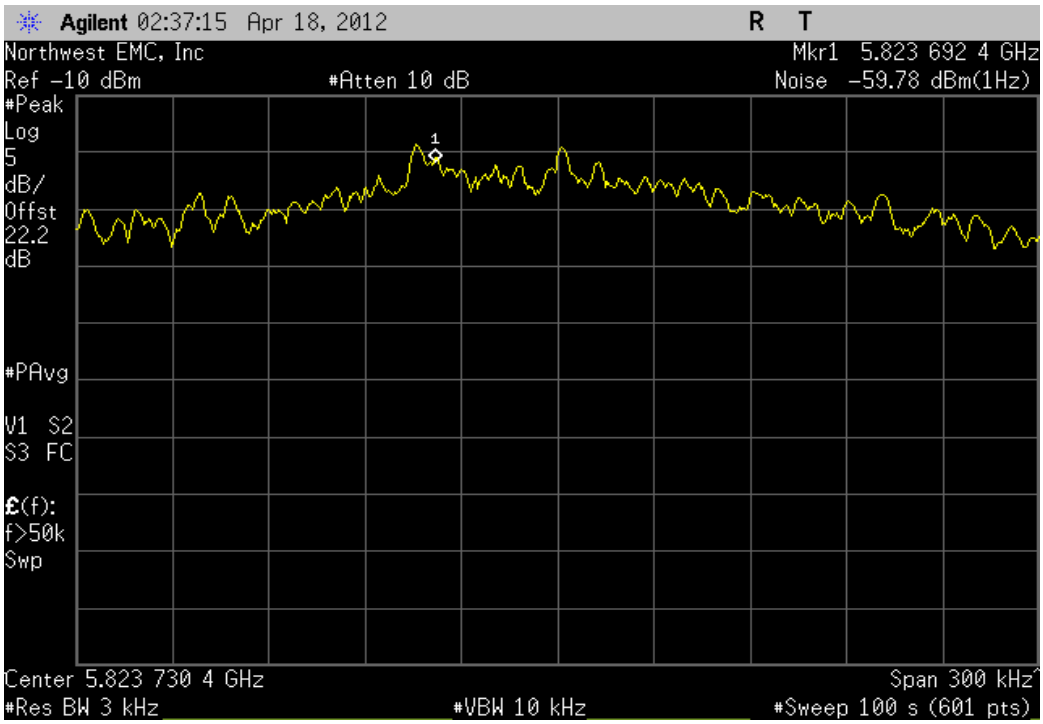
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Low Channel 149, 5745 MHz						
		Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
		-59.353	34.8	-24.553	8	Pass



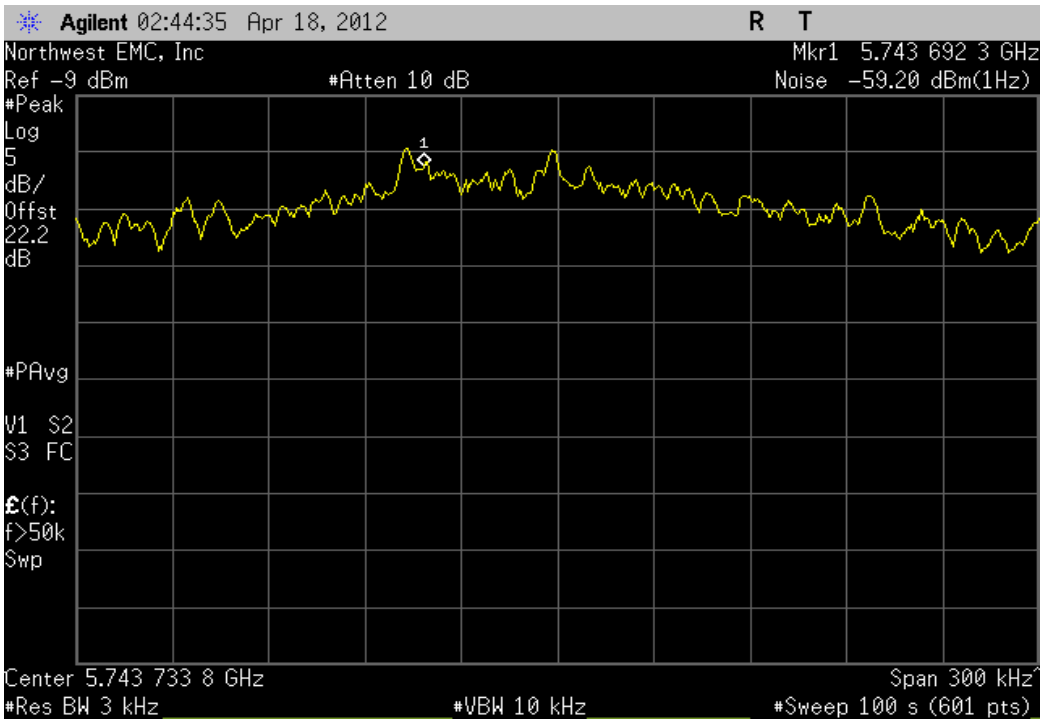
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, Mid Channel 157, 5785 MHz						
		Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
		-59.445	34.8	-24.645	8	Pass



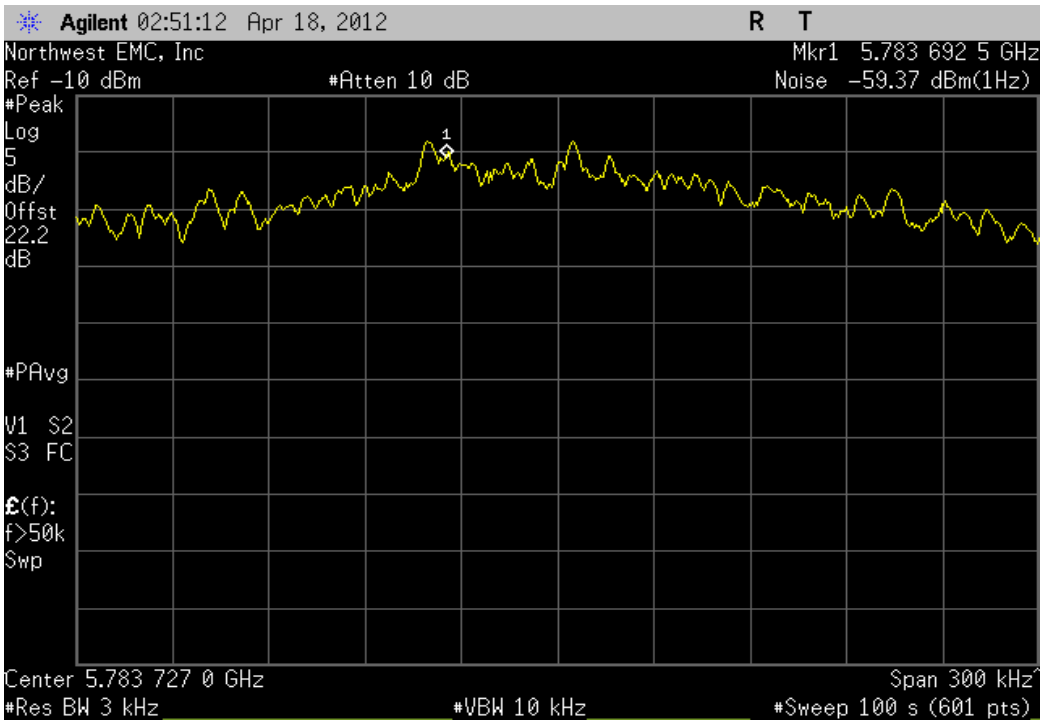
5725 MHz - 5850 MHz Band, 802.11(a) 6 Mbps, High Channel 165, 5825 MHz						
		Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
		-59.785	34.8	-24.985	8	Pass



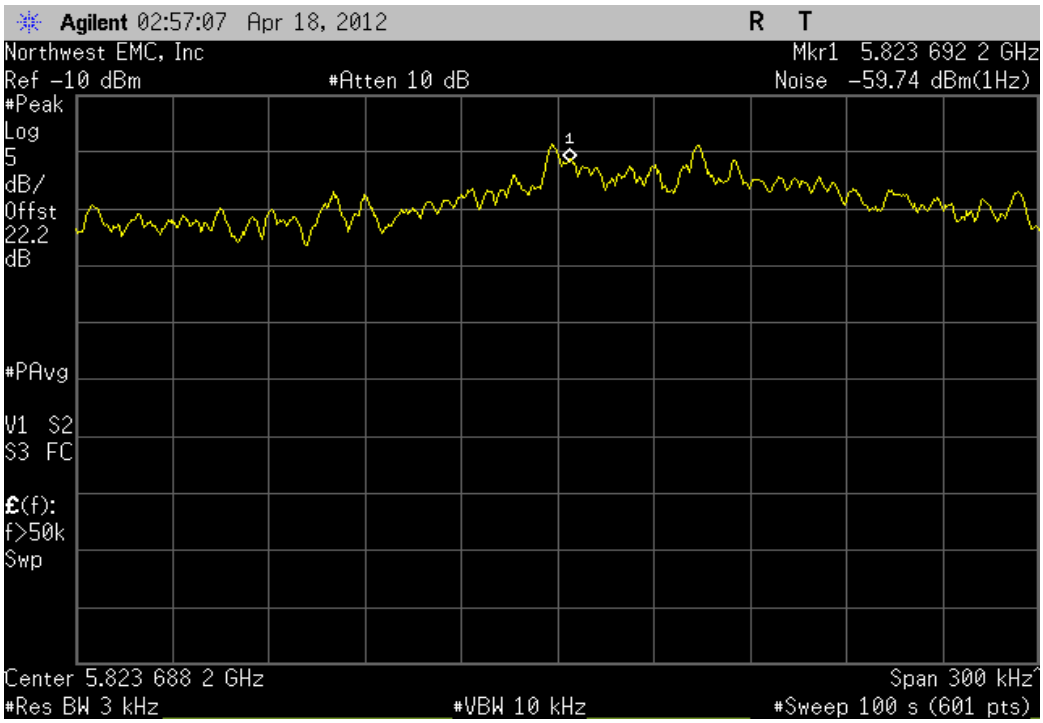
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Low Channel 149, 5745 MHz						
		Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
		-59.197	34.8	-24.397	8	Pass



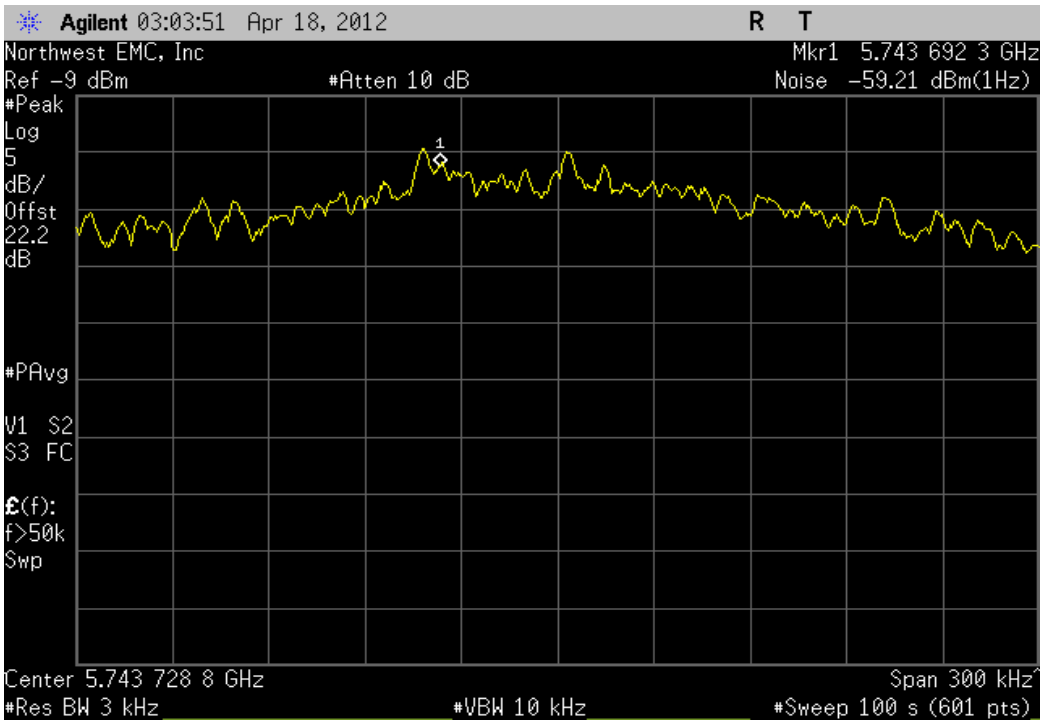
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, Mid Channel 157, 5785 MHz						
		Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
		-59.366	34.8	-24.566	8	Pass



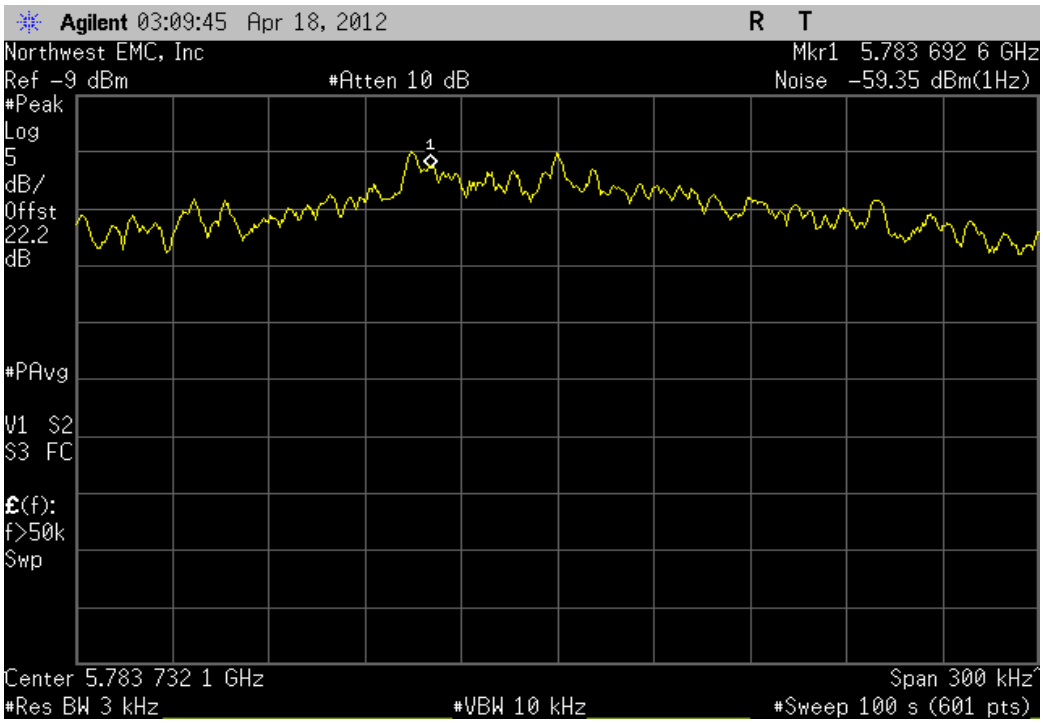
5725 MHz - 5850 MHz Band, 802.11(a) 36 Mbps, High Channel 165, 5825 MHz						
		Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
		-59.74	34.8	-24.94	8	Pass



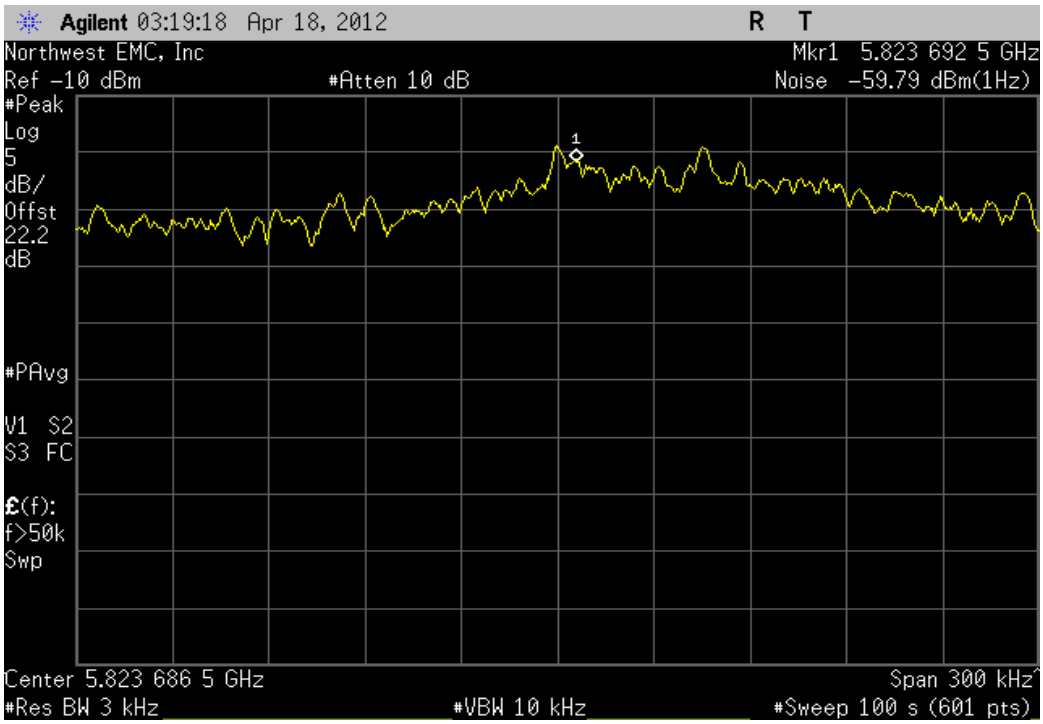
5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Low Channel 149, 5745 MHz						
		Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
		-59.208	34.8	-24.408	8	Pass



5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, Mid Channel 157, 5785 MHz						
		Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
		-59.355	34.8	-24.555	8	Pass



5725 MHz - 5850 MHz Band, 802.11(a) 54 Mbps, High Channel 165, 5825 MHz						
		Value (dBm / Hz)	(dBm / Hz) To (dBm / 3 kHz)	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
		-59.786	34.8	-24.986	8	Pass



SPURIOUS RADIATED EMISSIONS

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

MODES OF OPERATION INVESTIGATED

With Docking Station and all cables attached.
No Docking Station, Battery Powered, Finger Sensor Cable only.
With Docking Station, Finger Sensor Cable only.

CHANNELS AND DATA RATES INVESTIGATED

Channel 1, 6, 11. Data Rates: 1, 11, 6, 36, 54 Mbps

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

MASI0095 - 3

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	26 GHz

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
High Pass Filter	Micro-Tronics	HPM50111	HFM	4/2/2012	24 mo
Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AOI	4/29/2011	12 mo
Antenna, Horn	EMCO	3160-09	AHN	NCR	0 mo
OC floating Cable	N/A	18-26GHz RE Cables	OCK	4/29/2011	12 mo
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AOF	11/21/2011	12 mo
Antenna, Horn	ETS	3160-08	AHT	NCR	0 mo
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AOE	11/21/2011	12 mo
Antenna, Horn	ETS	3160-07	AHR	NCR	0 mo
OC 10 Cables	N/A	12-18GHz RE Cables	OCO	10/13/2011	12 mo
Pre-Amplifier	Miteq	AMF-4D-010120-30-10P-1	AOP	6/24/2011	12 mo
Antenna, Horn	EMCO	3115	AHB	3/8/2011	24 mo
OC10 Cables	N/A	1-8GHz RE Cables	OCJ	10/13/2011	12 mo
Antenna, Biconilog	EMCO	3142	AXB	3/28/2011	15 mo
OC10 Cables	N/A	10kHz-1GHz RE Cables	OCH	6/24/2011	12 mo
Pre-Amplifier	Miteq	AM-1064-9079	AOO	6/28/2011	12 mo
Spectrum Analyzer	Agilent	E4440A	AFA	5/9/2011	12 mo

MEASUREMENT BANDWIDTHS

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

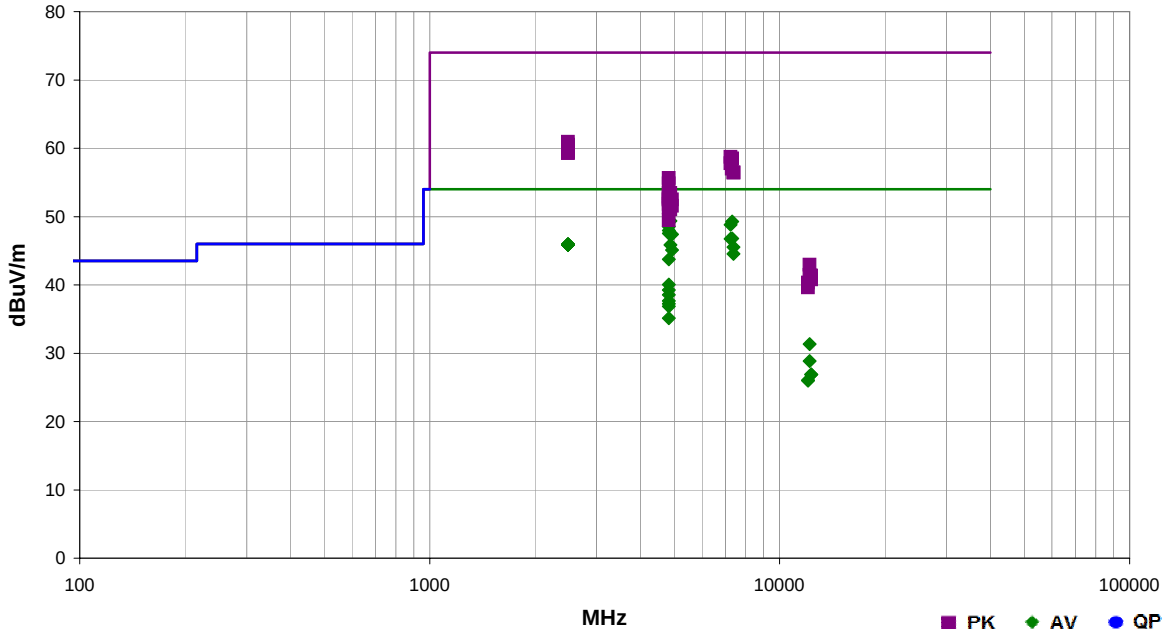
The antennas to be used with the EUT were tested. The EUT was transmitting and receiving while set at the channel available. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and orientation in 3 orthogonal plane, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.10:2009). An active loop antenna was used for this test in order to provide sufficient measurement sensitivity.

SPURIOUS RADIATED EMISSIONS

Work Order:	MASI0095	**Date:**	04/19/12		
Project:	None	**Temperature:**	28.45 °C		
Job Site:	OC10	**Humidity:**	35.45% RH		
Serial Number:	34996 Rev C.	**Barometric Pres.:**	1019 mbar	**Tested by:**	Jaemi Suh
EUT:	RAD7CA				
Configuration:	3				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	Port 1. See comments for Channels and Data Rate.				
Deviations:	None				
Comments:	Power Setting = 99. With docking station. Only finger sensor cable attached.				

Test Specifications	**Test Method**
FCC 15.209:2012	ANSI C63.10:2009

Run #	19	**Test Distance (m)**	3	**Antenna Height(s)**	1-4m	**Results**	Pass



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance ()	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted ()	Spec. Limit ()	Compared to Spec. (dB)	Comments
4823.997	43.0	9.5	1.1	175.0	3.0	0.0	Vert	AV	0.0	52.5	54.0	-1.5	Chan 1, 1 Mbps, Y-Axis
4874.010	39.6	9.8	1.2	162.0	3.0	0.0	Vert	AV	0.0	49.4	54.0	-4.6	Chan 6, 1 Mbps, Y-Axis
7311.754	32.6	16.7	1.6	230.0	3.0	0.0	Horz	AV	0.0	49.3	54.0	-4.7	Chan 6, 1 Mbps, Y-Axis
7236.765	32.3	16.5	1.2	208.0	3.0	0.0	Vert	AV	0.0	48.8	54.0	-5.2	Chan 1, 1 Mbps, Y-Axis
4824.011	39.0	9.5	1.2	267.0	3.0	0.0	Vert	AV	0.0	48.5	54.0	-5.5	Chan 1, 1 Mbps. X-Axis
4823.991	38.4	9.5	1.2	189.0	3.0	0.0	Vert	AV	0.0	47.9	54.0	-6.1	Chan 1, 1 Mbps, Z-Axis
4823.991	38.0	9.5	1.2	241.0	3.0	0.0	Horz	AV	0.0	47.5	54.0	-6.5	Chan 1, 1 Mbps, Y-Axis
4924.000	37.4	10.0	1.0	224.0	3.0	0.0	Vert	AV	0.0	47.4	54.0	-6.6	Chan 11,1 Mbps, Y-Axis
7311.750	30.1	16.7	1.2	193.0	3.0	0.0	Vert	AV	0.0	46.8	54.0	-7.2	Chan 6, 1 Mbps, Y-Axis
7236.790	30.2	16.5	1.2	215.0	3.0	0.0	Horz	AV	0.0	46.7	54.0	-7.3	Chan 1, 1 Mbps, Y-Axis
2483.500	24.1	1.8	3.6	64.0	3.0	20.0	Vert	AV	0.0	45.9	54.0	-8.1	Chan 11, 1 Mbps, Y-Axis
2483.500	24.1	1.8	1.0	281.0	3.0	20.0	Horz	AV	0.0	45.9	54.0	-8.1	Chan 11, 1 Mbps, Y-Axis
2483.500	24.1	1.8	1.0	42.0	3.0	20.0	Vert	AV	0.0	45.9	54.0	-8.1	Chan 11, 11 Mbps, Y-Axis
2483.500	24.1	1.8	1.0	148.0	3.0	20.0	Horz	AV	0.0	45.9	54.0	-8.1	Chan 11, 11 Mbps, Y-Axis
2483.500	24.1	1.8	1.0	31.0	3.0	20.0	Vert	AV	0.0	45.9	54.0	-8.1	Chan 11, 6 Mbps, Y-Axis
2483.500	24.1	1.8	1.0	258.0	3.0	20.0	Horz	AV	0.0	45.9	54.0	-8.1	Chan 11, 6 Mbps, Y-Axis
2483.500	24.1	1.8	1.0	348.0	3.0	20.0	Vert	AV	0.0	45.9	54.0	-8.1	Chan 11, 36 Mbps, Y-Axis
2483.500	24.1	1.8	2.7	46.0	3.0	20.0	Horz	AV	0.0	45.9	54.0	-8.1	Chan 11, 36 Mbps, Y-Axis
2483.500	24.1	1.8	1.0	39.0	3.0	20.0	Vert	AV	0.0	45.9	54.0	-8.1	Chan 11, 54 Mbps, Y-Axis
2483.500	24.1	1.8	1.0	4.0	3.0	20.0	Horz	AV	0.0	45.9	54.0	-8.1	Chan 11, 54 Mbps, Y-Axis
4873.984	36.1	9.8	1.2	199.0	3.0	0.0	Horz	AV	0.0	45.9	54.0	-8.1	Chan 6, 1 Mbps, Y-Axis
7386.787	29.0	16.5	1.0	241.0	3.0	0.0	Horz	AV	0.0	45.5	54.0	-8.5	Chan 11,1 Mbps, Y-Axis

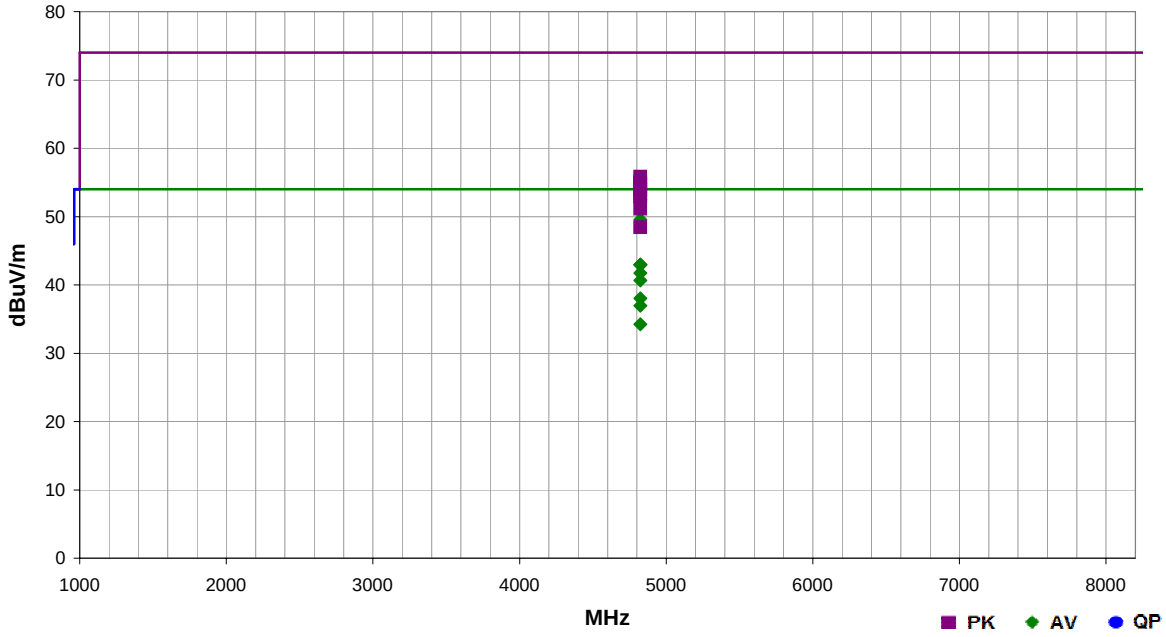
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance ()	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted ()	Spec. Limit ()	Compared to Spec. (dB)	Comments
4923.973	35.1	10.0	1.0	209.0	3.0	0.0	Horz	AV	0.0	45.1	54.0	-8.9	Chan 11,1 Mbps, Y-Axis
7384.620	28.0	16.5	1.0	191.0	3.0	0.0	Vert	AV	0.0	44.5	54.0	-9.5	Chan 11,1 Mbps, Y-Axis
4823.920	34.2	9.5	1.0	75.0	3.0	0.0	Vert	AV	0.0	43.7	54.0	-10.3	Chan 1, 11 Mbps, Y-Axis
2483.500	39.1	1.8	1.0	258.0	3.0	20.0	Horz	PK	0.0	60.9	74.0	-13.1	Chan 11, 6 Mbps, Y-Axis
2483.500	38.7	1.8	1.0	31.0	3.0	20.0	Vert	PK	0.0	60.5	74.0	-13.5	Chan 11, 6 Mbps, Y-Axis
2483.500	38.6	1.8	3.6	64.0	3.0	20.0	Vert	PK	0.0	60.4	74.0	-13.6	Chan 11, 1 Mbps, Y-Axis
2483.500	38.3	1.8	1.0	281.0	3.0	20.0	Horz	PK	0.0	60.1	74.0	-13.9	Chan 11, 1 Mbps, Y-Axis
4824.007	30.5	9.5	1.0	216.0	3.0	0.0	Horz	AV	0.0	40.0	54.0	-14.0	Chan 1, 11 Mbps, Y-Axis
2483.500	38.0	1.8	1.0	348.0	3.0	20.0	Vert	PK	0.0	59.8	74.0	-14.2	Chan 11, 36 Mbps, Y-Axis
2483.500	38.0	1.8	1.0	4.0	3.0	20.0	Horz	PK	0.0	59.8	74.0	-14.2	Chan 11, 54 Mbps, Y-Axis
2483.500	37.7	1.8	1.0	148.0	3.0	20.0	Horz	PK	0.0	59.5	74.0	-14.5	Chan 11, 11 Mbps, Y-Axis
2483.500	37.6	1.8	2.7	46.0	3.0	20.0	Horz	PK	0.0	59.4	74.0	-14.6	Chan 11, 36 Mbps, Y-Axis
2483.500	37.5	1.8	1.0	42.0	3.0	20.0	Vert	PK	0.0	59.3	74.0	-14.7	Chan 11, 11 Mbps, Y-Axis
2483.500	37.5	1.8	1.0	39.0	3.0	20.0	Vert	PK	0.0	59.3	74.0	-14.7	Chan 11, 54 Mbps, Y-Axis
4824.222	29.7	9.5	1.0	168.0	3.0	0.0	Vert	AV	0.0	39.2	54.0	-14.8	Chan 1, 6 Mbps, Y-Axis
7237.405	42.2	16.5	1.2	208.0	3.0	0.0	Vert	PK	0.0	58.7	74.0	-15.3	Chan 1, 1 Mbps, Y-Axis
4824.497	29.0	9.5	1.0	228.0	3.0	0.0	Vert	AV	0.0	38.5	54.0	-15.5	Chan 1, 54 Mbps, Y-Axis
7310.127	41.8	16.7	1.6	230.0	3.0	0.0	Horz	PK	0.0	58.5	74.0	-15.5	Chan 6, 1 Mbps, Y-Axis
7235.923	41.3	16.5	1.2	215.0	3.0	0.0	Horz	PK	0.0	57.8	74.0	-16.2	Chan 1, 1 Mbps, Y-Axis
4824.500	28.1	9.5	1.0	169.0	3.0	0.0	Vert	AV	0.0	37.6	54.0	-16.4	Chan 1, 36 Mbps, Y-Axis
4823.952	27.7	9.5	1.0	212.0	3.0	0.0	Horz	AV	0.0	37.2	54.0	-16.8	Chan 1, 6 Mbps, Y-Axis
7309.690	40.3	16.7	1.2	193.0	3.0	0.0	Vert	PK	0.0	57.0	74.0	-17.0	Chan 6, 1 Mbps, Y-Axis
4824.495	27.3	9.5	1.0	212.0	3.0	0.0	Horz	AV	0.0	36.8	54.0	-17.2	Chan 1, 36 Mbps, Y-Axis
7386.000	39.9	16.5	1.0	191.0	3.0	0.0	Vert	PK	0.0	56.4	74.0	-17.6	Chan 11,1 Mbps, Y-Axis
7387.500	39.9	16.5	1.0	241.0	3.0	0.0	Horz	PK	0.0	56.4	74.0	-17.6	Chan 11, 1 Mbps, Y-Axis
4823.643	46.1	9.5	1.0	75.0	3.0	0.0	Vert	PK	0.0	55.6	74.0	-18.4	Chan 1, 11 Mbps, Y-Axis
4824.382	25.6	9.5	1.0	199.0	3.0	0.0	Horz	AV	0.0	35.1	54.0	-18.9	Chan 1, 54 Mbps, Y-Axis
4823.864	45.3	9.5	1.2	175.0	3.0	0.0	Vert	PK	0.0	54.8	74.0	-19.2	Chan 1, 1 Mbps, Y-Axis
4874.217	43.7	9.8	1.2	162.0	3.0	0.0	Vert	PK	0.0	53.5	74.0	-20.5	Chan 6, 1 Mbps, Y-Axis
4824.337	43.9	9.5	1.0	168.0	3.0	0.0	Vert	PK	0.0	53.4	74.0	-20.6	Chan 1, 6 Mbps, Y-Axis
4823.540	43.4	9.5	1.0	228.0	3.0	0.0	Vert	PK	0.0	52.9	74.0	-21.1	Chan 1, 54 Mbps, Y-Axis
4823.828	43.2	9.5	1.0	216.0	3.0	0.0	Horz	PK	0.0	52.7	74.0	-21.3	Chan 1, 11 Mbps, Y-Axis
4823.933	43.0	9.5	1.0	169.0	3.0	0.0	Vert	PK	0.0	52.5	74.0	-21.5	Chan 1, 36 Mbps, Y-Axis
4923.933	42.5	10.0	1.0	224.0	3.0	0.0	Vert	PK	0.0	52.5	74.0	-21.5	Chan 11,1 Mbps, Y-Axis
4824.051	42.9	9.5	1.2	241.0	3.0	0.0	Horz	PK	0.0	52.4	74.0	-21.6	Chan 1, 1 Mbps, Y-Axis
4823.729	42.3	9.5	1.0	212.0	3.0	0.0	Horz	PK	0.0	51.8	74.0	-22.2	Chan 1, 36 Mbps, Y-Axis
4923.900	41.6	10.0	1.0	209.0	3.0	0.0	Horz	PK	0.0	51.6	74.0	-22.4	Chan 11,1 Mbps, Y-Axis
4824.028	41.8	9.5	1.0	212.0	3.0	0.0	Horz	PK	0.0	51.3	74.0	-22.7	Chan 1, 6 Mbps, Y-Axis
12185.730	38.8	-7.5	1.0	218.0	3.0	0.0	Vert	AV	0.0	31.3	54.0	-22.7	Chan 6, 1 Mbps, Y-Axis
4873.784	41.3	9.8	1.2	199.0	3.0	0.0	Horz	PK	0.0	51.1	74.0	-22.9	Chan 6, 1 Mbps, Y-Axis
4824.155	39.9	9.5	1.0	199.0	3.0	0.0	Horz	PK	0.0	49.4	74.0	-24.6	Chan 1, 54 Mbps, Y-Axis
12185.690	36.3	-7.5	1.0	200.0	3.0	0.0	Horz	AV	0.0	28.8	54.0	-25.2	Chan 6, 1 Mbps, Y-Axis
12312.000	33.6	-6.7	1.0	151.0	3.0	0.0	Horz	AV	0.0	26.9	54.0	-27.1	Chan 11, 1 Mbps, Y-Axis
12311.970	33.6	-6.7	1.0	177.0	3.0	0.0	Vert	AV	0.0	26.9	54.0	-27.1	Chan 11, 1 Mbps, Y-Axis
12061.650	34.2	-8.2	1.0	254.0	3.0	0.0	Vert	AV	0.0	26.0	54.0	-28.0	Chan 1, 1 Mbps, Y-Axis
12060.260	34.2	-8.2	1.0	356.0	3.0	0.0	Horz	AV	0.0	26.0	54.0	-28.0	Chan 1, 1 Mbps, Y-Axis
12183.890	50.4	-7.5	1.0	218.0	3.0	0.0	Vert	PK	0.0	42.9	74.0	-31.1	Chan 6, 1 Mbps, Y-Axis
12186.370	48.9	-7.5	1.0	200.0	3.0	0.0	Horz	PK	0.0	41.4	74.0	-32.6	Chan 6, 1 Mbps, Y-Axis
12309.260	48.1	-6.7	1.0	151.0	3.0	0.0	Horz	PK	0.0	41.4	74.0	-32.6	Chan 11, 1 Mbps, Y-Axis
12311.390	47.5	-6.7	1.0	177.0	3.0	0.0	Vert	PK	0.0	40.8	74.0	-33.2	Chan 11, 1 Mbps, Y-Axis
12059.330	48.5	-8.2	1.0	254.0	3.0	0.0	Vert	PK	0.0	40.3	74.0	-33.7	Chan 1, 1 Mbps, Y-Axis
12058.090	47.8	-8.2	1.0	356.0	3.0	0.0	Horz	PK	0.0	39.6	74.0	-34.4	Chan 1, 1 Mbps, Y-Axis

SPURIOUS RADIATED EMISSIONS

Work Order:	MASI0095	**Date:**	04/19/12		
Project:	None	**Temperature:**	28.15 °C		
Job Site:	OC10	**Humidity:**	37.45% RH		
Serial Number:	34996 Rev C.	**Barometric Pres.:**	1019 mbar	**Tested by:**	Mark Baytan
EUT:	RAD7CA				
Configuration:	3				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	Port 2. See comments for Channels and Data Rate.				
Deviations:	None				
Comments:	Power Setting = 99. With docking station. Only finger sensor cable attached.				

Test Specifications	**Test Method**
FCC 15.209:2012	ANSI C63.10:2009

Run #	25	**Test Distance (m)**	3	**Antenna Height(s)**	1-4m	**Results**	Pass



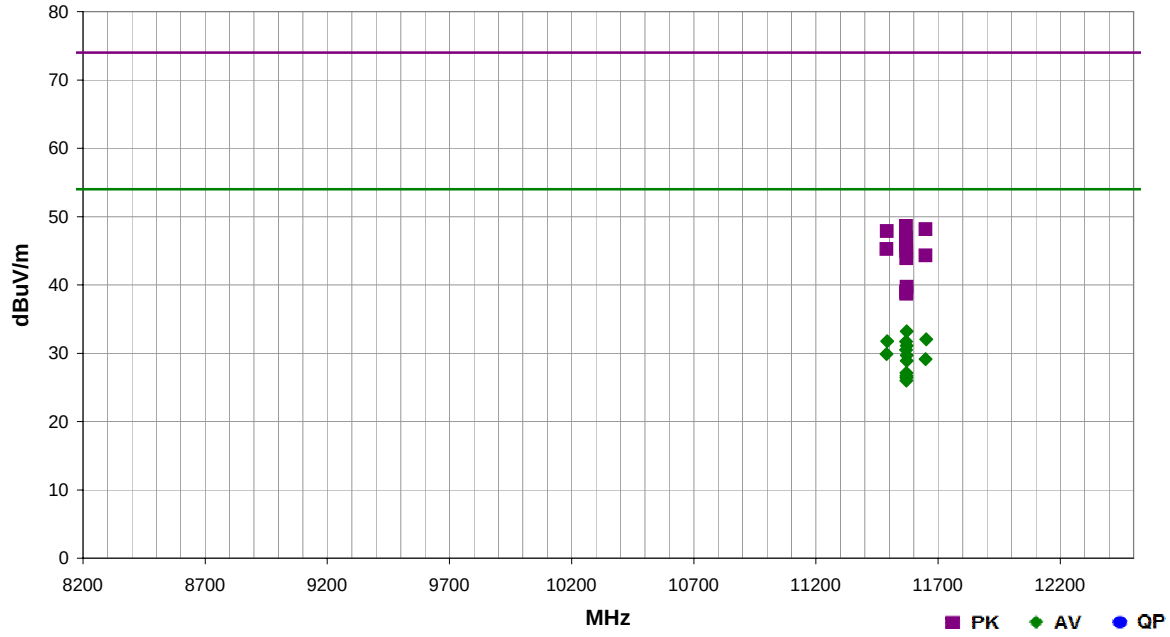
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
4823.997	42.9	9.5	1.0	230.0	3.0	0.0	Vert	AV	0.0	52.4	54.0	-1.6	Chan 1, 1 Mbps, Y-Axis
4824.007	40.0	9.5	1.0	211.0	3.0	0.0	Horz	AV	0.0	49.5	54.0	-4.5	Chan 1, 1 Mbps, Y-Axis
4823.985	33.4	9.5	1.0	224.0	3.0	0.0	Vert	AV	0.0	42.9	54.0	-11.1	Chan 1, 6 Mbps, Y-Axis
4823.975	33.4	9.5	1.0	67.0	3.0	0.0	Vert	AV	0.0	42.9	54.0	-11.1	Chan 1, 11 Mbps, Y-Axis
4823.955	33.4	9.5	1.0	173.0	3.0	0.0	Vert	AV	0.0	42.9	54.0	-11.1	Chan 1, 36 Mbps, Y-Axis
4823.980	32.2	9.5	1.1	213.0	3.0	0.0	Horz	AV	0.0	41.7	54.0	-12.3	Chan 1, 6 Mbps, Y-Axis
4823.925	31.1	9.5	1.0	205.0	3.0	0.0	Horz	AV	0.0	40.6	54.0	-13.4	Chan 1, 11 Mbps, Y-Axis
4824.003	28.5	9.5	1.0	222.0	3.0	0.0	Horz	AV	0.0	38.0	54.0	-16.0	Chan 1, 36 Mbps, Y-Axis
4824.432	27.4	9.5	1.0	226.0	3.0	0.0	Vert	AV	0.0	36.9	54.0	-17.1	Chan 1, 54 Mbps, Y-Axis
4823.927	46.3	9.5	1.0	230.0	3.0	0.0	Vert	PK	0.0	55.8	74.0	-18.2	Chan 1, 1 Mbps, Y-Axis
4823.958	45.6	9.5	1.0	173.0	3.0	0.0	Vert	PK	0.0	55.1	74.0	-18.9	Chan 1, 36 Mbps, Y-Axis
4823.753	45.3	9.5	1.0	224.0	3.0	0.0	Vert	PK	0.0	54.8	74.0	-19.2	Chan 1, 6 Mbps, Y-Axis
4824.150	45.2	9.5	1.0	67.0	3.0	0.0	Vert	PK	0.0	54.7	74.0	-19.3	Chan 1, 11 Mbps, Y-Axis
4824.207	24.7	9.5	1.0	257.0	3.0	0.0	Horz	AV	0.0	34.2	54.0	-19.8	Chan 1, 54 Mbps, Y-Axis
4823.902	44.4	9.5	1.0	211.0	3.0	0.0	Horz	PK	0.0	53.9	74.0	-20.1	Chan 1, 1 Mbps, Y-Axis
4823.925	44.3	9.5	1.1	213.0	3.0	0.0	Horz	PK	0.0	53.8	74.0	-20.2	Chan 1, 6 Mbps, Y-Axis
4823.975	43.5	9.5	1.0	205.0	3.0	0.0	Horz	PK	0.0	53.0	74.0	-21.0	Chan 1, 11 Mbps, Y-Axis
4824.212	43.4	9.5	1.0	226.0	3.0	0.0	Vert	PK	0.0	52.9	74.0	-21.1	Chan 1, 54 Mbps, Y-Axis
4823.892	41.6	9.5	1.0	222.0	3.0	0.0	Horz	PK	0.0	51.1	74.0	-22.9	Chan 1, 36 Mbps, Y-Axis
4824.118	38.9	9.5	1.0	257.0	3.0	0.0	Horz	PK	0.0	48.4	74.0	-25.6	Chan 1, 54 Mbps, Y-Axis

SPURIOUS RADIATED EMISSIONS

Work Order:	MASI0095	**Date:**	04/19/12		
Project:	None	**Temperature:**	25.19 °C		
Job Site:	OC10	**Humidity:**	48.66% RH		
Serial Number:	34996 Rev C.	**Barometric Pres.:**	1011 mbar	**Tested by:**	Mark Baytan
EUT:	RAD7CA				
Configuration:	3				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	Transmitting 801.11(a) Channels 149, 157, 165. Antenna Port 1. See data rates on comments.				
Deviations:	None				
Comments:	Power Setting = 99. With docking station. Only finger sensor cable attached.				

Test Specifications	**Test Method**
FCC 15.209:2012	ANSI C63.10:2009

Run #	27	**Test Distance (m)**	3	**Antenna Height(s)**	1-4m	**Results**	Pass



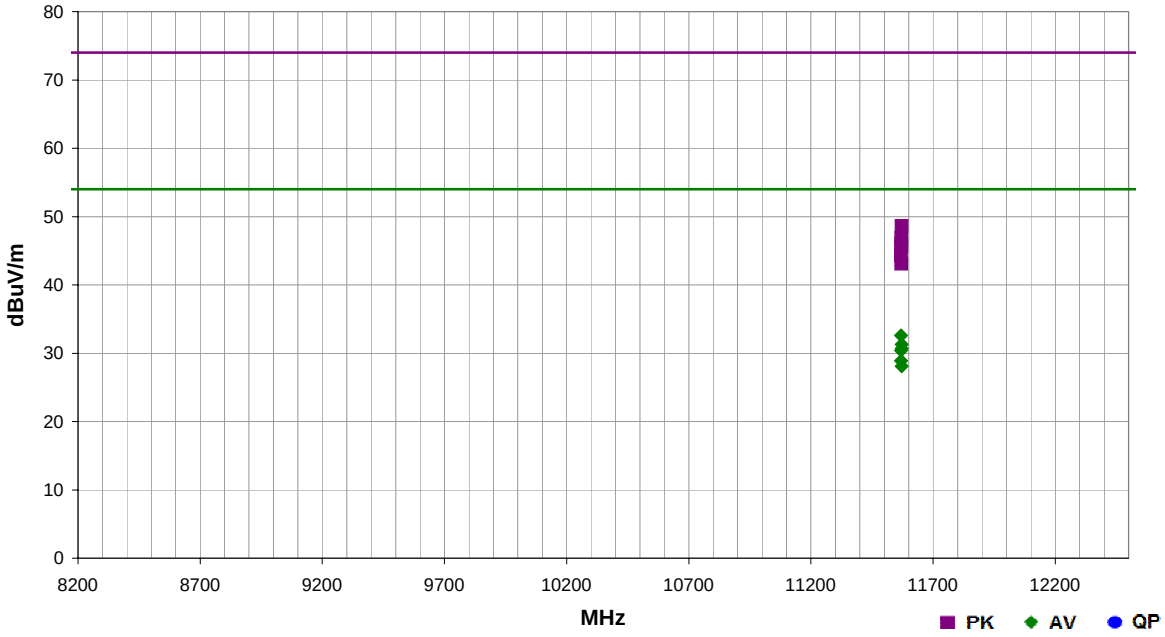
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
11571.170	43.2	-10.0	1.0	146.0	3.0	0.0	Horz	AV	0.0	33.2	54.0	-20.8
11651.170	41.9	-9.9	1.0	222.0	3.0	0.0	Horz	AV	0.0	32.0	54.0	-22.0
11491.160	41.9	-10.1	1.0	207.0	3.0	0.0	Horz	AV	0.0	31.8	54.0	-22.2
11568.680	41.7	-10.0	1.0	284.0	3.0	0.0	Vert	AV	0.0	31.7	54.0	-22.3
11571.210	41.1	-10.0	1.0	39.0	3.0	0.0	Horz	AV	0.0	31.1	54.0	-22.9
11568.630	40.5	-10.0	1.0	142.0	3.0	0.0	Horz	AV	0.0	30.5	54.0	-23.5
11488.710	40.0	-10.1	1.1	316.0	3.0	0.0	Vert	AV	0.0	29.9	54.0	-24.1
11571.130	39.7	-10.0	1.0	42.0	3.0	0.0	Vert	AV	0.0	29.7	54.0	-24.3
11648.750	39.0	-9.9	1.0	196.0	3.0	0.0	Vert	AV	0.0	29.1	54.0	-24.9
11571.130	38.9	-10.0	1.1	225.0	3.0	0.0	Vert	AV	0.0	28.9	54.0	-25.1
11568.750	58.6	-10.0	1.0	146.0	3.0	0.0	Horz	PK	0.0	48.6	74.0	-25.4
11648.700	58.0	-9.9	1.0	222.0	3.0	0.0	Horz	PK	0.0	48.1	74.0	-25.9
11489.890	58.0	-10.1	1.0	207.0	3.0	0.0	Horz	PK	0.0	47.9	74.0	-26.1
11569.960	37.1	-10.0	1.0	213.0	3.0	0.0	Vert	AV	0.0	27.1	54.0	-26.9
11568.620	56.9	-10.0	1.0	39.0	3.0	0.0	Horz	PK	0.0	46.9	74.0	-27.1
11569.970	36.7	-10.0	1.0	9.0	3.0	0.0	Horz	AV	0.0	26.7	54.0	-27.3
11569.390	56.7	-10.0	1.0	284.0	3.0	0.0	Vert	PK	0.0	46.7	74.0	-27.3
11569.960	36.4	-10.0	1.0	230.0	3.0	0.0	Horz	AV	0.0	26.4	54.0	-27.6
11569.980	36.0	-10.0	1.0	311.0	3.0	0.0	Vert	AV	0.0	26.0	54.0	-28.0
11568.910	55.7	-10.0	1.0	142.0	3.0	0.0	Horz	PK	0.0	45.7	74.0	-28.3

SPURIOUS RADIATED EMISSIONS

Work Order:	MASI0095	**Date:**	04/19/12		
Project:	None	**Temperature:**	25.19 °C		
Job Site:	OC10	**Humidity:**	48.66% RH		
Serial Number:	34996 Rev C.	**Barometric Pres.:**	1011 mbar	**Tested by:**	Mark Baytan
EUT:	RAD7CA				
Configuration:	3				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	Transmitting 801.11(a) Channels 149, 157, 165. Antenna Port 2. See data rates on comments.				
Deviations:	None				
Comments:	Power Setting = 99. With docking station. Only finger sensor cable attached.				

Test Specifications	**Test Method**
FCC 15.209:2012	ANSI C63.10:2009

Run #	28	**Test Distance (m)**	3	**Antenna Height(s)**	1-4m	**Results**	Pass



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)
11568.610	42.6	-10.0	1.0	227.0	3.0	0.0	Horz	AV	0.0	32.6	54.0	-21.4
11571.120	41.3	-10.0	1.0	201.0	3.0	0.0	Horz	AV	0.0	31.3	54.0	-22.7
11571.160	40.7	-10.0	1.0	188.0	3.0	0.0	Vert	AV	0.0	30.7	54.0	-23.3
11568.760	40.4	-10.0	1.0	244.0	3.0	0.0	Horz	AV	0.0	30.4	54.0	-23.6
11568.790	38.9	-10.0	1.0	269.0	3.0	0.0	Vert	AV	0.0	28.9	54.0	-25.1
11570.740	58.6	-10.0	1.0	227.0	3.0	0.0	Horz	PK	0.0	48.6	74.0	-25.4
11571.200	38.1	-10.0	1.0	304.0	3.0	0.0	Vert	AV	0.0	28.1	54.0	-25.9
11570.230	56.9	-10.0	1.0	201.0	3.0	0.0	Horz	PK	0.0	46.9	74.0	-27.1
11570.050	56.1	-10.0	1.0	188.0	3.0	0.0	Vert	PK	0.0	46.1	74.0	-27.9
11569.970	55.6	-10.0	1.0	244.0	3.0	0.0	Horz	PK	0.0	45.6	74.0	-28.4
11568.790	54.3	-10.0	1.0	269.0	3.0	0.0	Vert	PK	0.0	44.3	74.0	-29.7
11569.580	53.1	-10.0	1.0	304.0	3.0	0.0	Vert	PK	0.0	43.1	74.0	-30.9

AC POWERLINE CONDUCTED EMISSIONS

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION

Transmitting 802.11(a) Channel 165, 6 Mbps.
Transmitting 802.11(a) Channel 157, 6 Mbps.
Transmitting 802.11(a) Channel 149, 6 Mbps.
Transmitting 802.11(b/g) Channel 11, 1 Mbps.
Transmitting 802.11(b/g) Channel 6, 1 Mbps.
Transmitting 802.11(b/g) Channel 1, 1 Mbps.

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

MASI0095 - 2

SAMPLE CALCULATIONS

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
LISN	Solar	9252-50-R-24-BNC	LIC	4/26/2011	12 mo
LISN	Solar	9252-50-24-BNC	LIA	6/13/2011	12 mo
Attenuator	Pasternack	6N10W-20	AWC	3/1/2012	12 mo
High Pass Filter	TTE	H97-100K-50-720B	HFP	3/1/2012	24 mo
OC06 Cables	N/A	CE Cables	OCM	4/6/2012	12 mo
Spectrum Analyzer	Agilent	E4440A	AFG	4/28/2011	12 mo

MEASUREMENT BANDWIDTHS

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

The EUT will be powered either directly or indirectly from the AC power line. Therefore, conducted emissions measurements were made on the AC input of the EUT, or on the AC input of the device used to power the EUT. The AC power line conducted emissions were measured with the EUT operating at the lowest, the highest, and a middle channel in the operational band. The EUT was transmitting at its maximum data rate. For each mode, the spectrum was scanned from 150 kHz to 30 MHz. The test setup and procedures were in accordance with ANSI C63.10-2009.

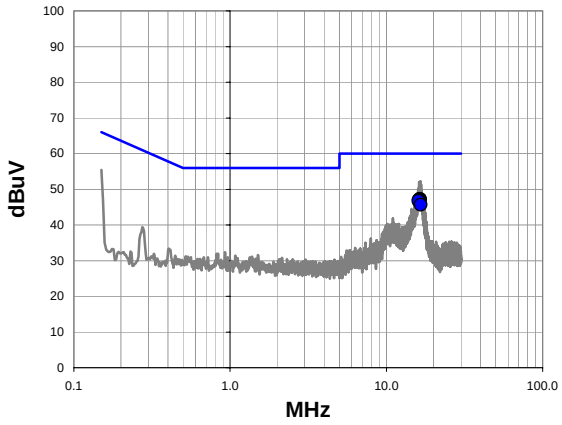
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	MASI0095	**Date:**	04/20/12		
Project:	None	**Temperature:**	25.05 °C		
Job Site:	OC06	**Humidity:**	48.3% RH		
Serial Number:	34996 Rev C.	**Barometric Pres.:**	1011 mbar	**Tested by:**	Mark Baytan
EUT:	RAD7CA				
Configuration:	2				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	Transmitting 802.11(b/g) Channel 1, 1 Mbps.				
Deviations:	None				
Comments:	Power Setting = 99. Port 1.				

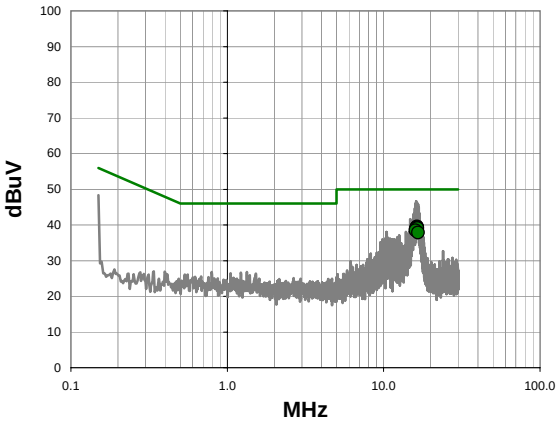
Test Specifications	**Test Method**
FCC 15.247:2011	ANSI C63.10:2009

Run #	10	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
16.458	26.5	20.7	47.2	60.0	-12.8
16.378	26.5	20.7	47.2	60.0	-12.8
16.407	26.3	20.7	47.0	60.0	-13.0
16.156	26.3	20.7	47.0	60.0	-13.0
16.024	26.0	20.7	46.7	60.0	-13.3
16.618	24.9	20.8	45.7	60.0	-14.3

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
16.378	18.8	20.7	39.5	50.0	-10.5
16.407	18.6	20.7	39.3	50.0	-10.7
16.156	18.5	20.7	39.2	50.0	-10.8
16.458	18.4	20.7	39.1	50.0	-10.9
16.024	17.8	20.7	38.5	50.0	-11.5
16.618	17.1	20.8	37.9	50.0	-12.1

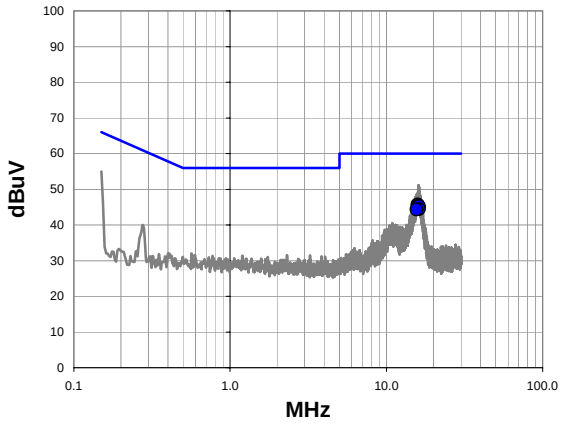
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	MASI0095	**Date:**	04/20/12		
Project:	None	**Temperature:**	25.05 °C		
Job Site:	OC06	**Humidity:**	48.3% RH		
Serial Number:	34996 Rev C.	**Barometric Pres.:**	1011 mbar	**Tested by:**	Mark Baytan
EUT:	RAD7CA				
Configuration:	2				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	Transmitting 802.11(b/g) Channel 1, 1 Mbps.				
Deviations:	None				
Comments:	Power Setting = 99. Port 1.				

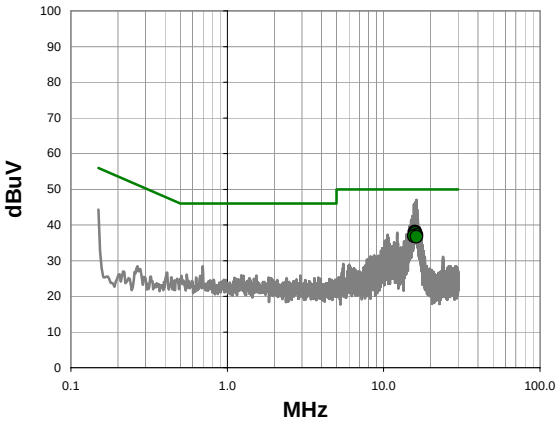
Test Specifications	**Test Method**
FCC 15.247:2011	ANSI C63.10:2009

Run #	11	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.930	25.0	20.7	45.7	60.0	-14.3
15.817	24.9	20.7	45.6	60.0	-14.4
15.984	24.8	20.7	45.5	60.0	-14.5
16.225	24.5	20.7	45.2	60.0	-14.8
16.188	23.7	20.7	44.4	60.0	-15.6
15.609	23.6	20.7	44.3	60.0	-15.7

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.817	17.4	20.7	38.1	50.0	-11.9
15.930	17.3	20.7	38.0	50.0	-12.0
15.984	17.1	20.7	37.8	50.0	-12.2
16.225	16.5	20.7	37.2	50.0	-12.8
15.609	16.2	20.7	36.9	50.0	-13.1
16.188	16.0	20.7	36.7	50.0	-13.3

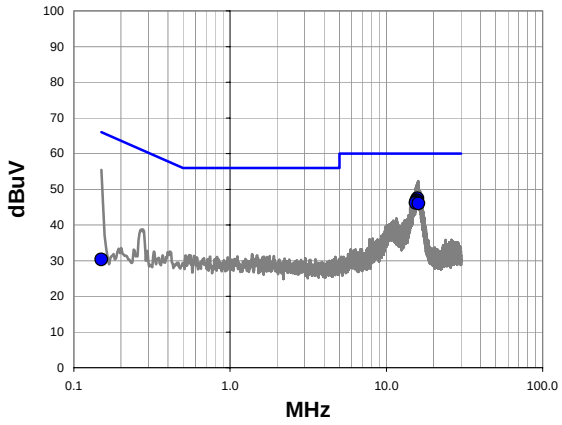
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	MASI0095	**Date:**	04/20/12		
Project:	None	**Temperature:**	25.05 °C		
Job Site:	OC06	**Humidity:**	48.3% RH		
Serial Number:	34996 Rev C.	**Barometric Pres.:**	1011 mbar	**Tested by:**	Mark Baytan
EUT:	RAD7CA				
Configuration:	2				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	Transmitting 802.11(b/g) Channel 6, 1 Mbps.				
Deviations:	None				
Comments:	Power Setting = 99. Port 1.				

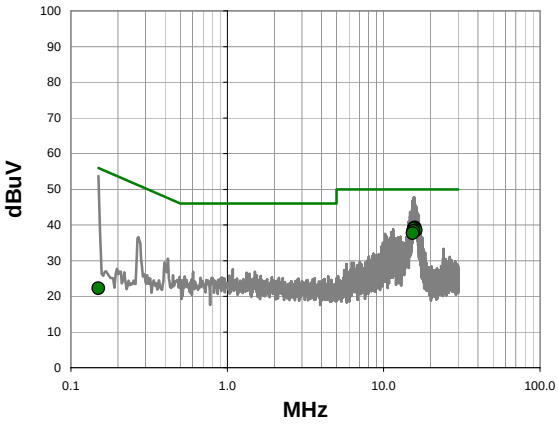
Test Specifications	**Test Method**
FCC 15.247:2011	ANSI C63.10:2009

Run #	12	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.820	26.7	20.7	47.4	60.0	-12.6
15.634	26.2	20.7	46.9	60.0	-13.1
15.718	26.0	20.7	46.7	60.0	-13.3
15.536	25.7	20.7	46.4	60.0	-13.6
15.354	25.5	20.7	46.2	60.0	-13.8
16.057	25.3	20.7	46.0	60.0	-14.0
0.150	10.2	20.1	30.3	66.0	-35.7

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.820	18.6	20.7	39.3	50.0	-10.7
15.718	18.4	20.7	39.1	50.0	-10.9
15.634	18.3	20.7	39.0	50.0	-11.0
16.057	17.8	20.7	38.5	50.0	-11.5
15.536	17.6	20.7	38.3	50.0	-11.7
15.354	17.0	20.7	37.7	50.0	-12.3
0.150	2.1	20.1	22.2	56.0	-33.8

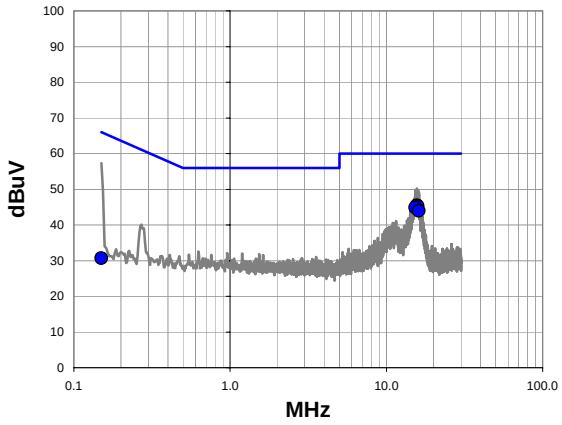
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	MASI0095	**Date:**	04/20/12		
Project:	None	**Temperature:**	25.05 °C		
Job Site:	OC06	**Humidity:**	48.3% RH		
Serial Number:	34996 Rev C.	**Barometric Pres.:**	1011 mbar	**Tested by:**	Mark Baytan
EUT:	RAD7CA				
Configuration:	2				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	Transmitting 802.11(b/g) Channel 6, 1 Mbps.				
Deviations:	None				
Comments:	Power Setting = 99. Port 1.				

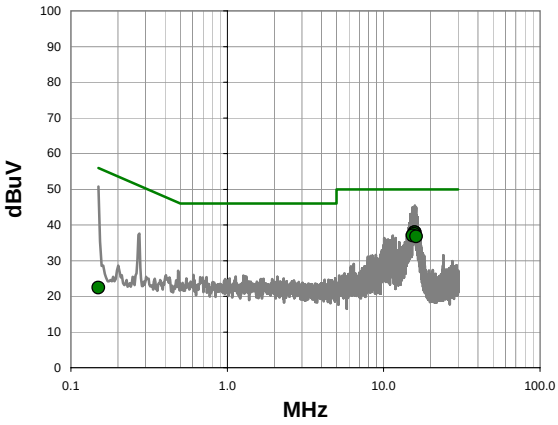
Test Specifications	**Test Method**
FCC 15.247:2011	ANSI C63.10:2009

Run #	13	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.660	24.8	20.7	45.5	60.0	-14.5
15.860	24.7	20.7	45.4	60.0	-14.6
15.787	24.5	20.7	45.2	60.0	-14.8
15.339	24.1	20.7	44.8	60.0	-15.2
16.108	23.2	20.7	43.9	60.0	-16.1
0.150	10.6	20.1	30.7	66.0	-35.3

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.860	17.2	20.7	37.9	50.0	-12.1
15.787	17.2	20.7	37.9	50.0	-12.1
15.660	16.8	20.7	37.5	50.0	-12.5
15.339	16.3	20.7	37.0	50.0	-13.0
16.108	16.1	20.7	36.8	50.0	-13.2
0.150	2.3	20.1	22.4	56.0	-33.6

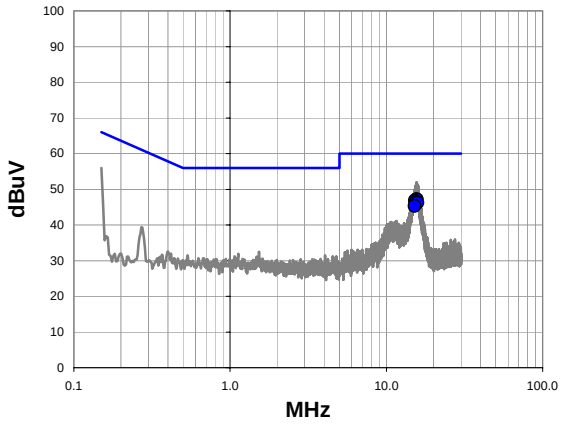
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	MASI0095	**Date:**	04/20/12		
Project:	None	**Temperature:**	25.05 °C		
Job Site:	OC06	**Humidity:**	48.3% RH		
Serial Number:	34996 Rev C.	**Barometric Pres.:**	1011 mbar	**Tested by:**	Mark Baytan
EUT:	RAD7CA				
Configuration:	2				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	Transmitting 802.11(b/g) Channel 11, 1 Mbps.				
Deviations:	None				
Comments:	Power Setting = 99. Port 1.				

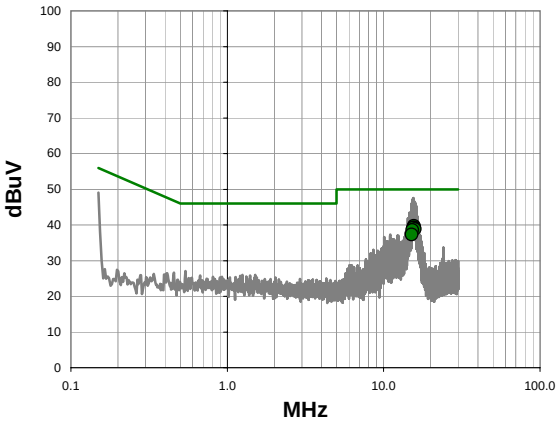
Test Specifications	**Test Method**
FCC 15.247:2011	ANSI C63.10:2009

Run #	14	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.627	26.5	20.7	47.2	60.0	-12.8
15.685	26.5	20.7	47.2	60.0	-12.8
15.274	26.1	20.7	46.8	60.0	-13.2
15.503	25.8	20.7	46.5	60.0	-13.5
15.860	25.5	20.7	46.2	60.0	-13.8
15.146	24.6	20.7	45.3	60.0	-14.7

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.627	19.0	20.7	39.7	50.0	-10.3
15.685	18.6	20.7	39.3	50.0	-10.7
15.503	18.5	20.7	39.2	50.0	-10.8
15.860	18.1	20.7	38.8	50.0	-11.2
15.274	17.9	20.7	38.6	50.0	-11.4
15.146	16.6	20.7	37.3	50.0	-12.7

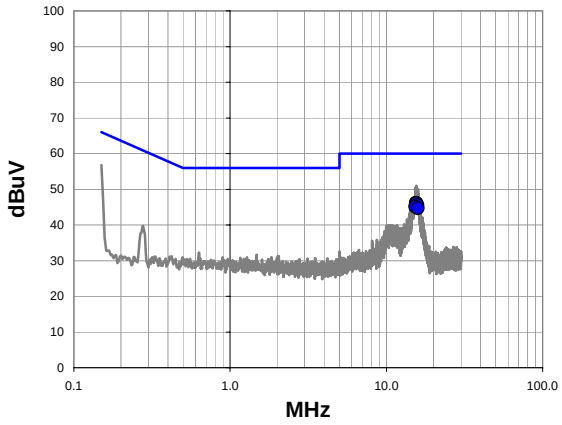
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	MASI0095	**Date:**	04/20/12		
Project:	None	**Temperature:**	25.05 °C		
Job Site:	OC06	**Humidity:**	48.3% RH		
Serial Number:	34996 Rev C.	**Barometric Pres.:**	1011 mbar	**Tested by:**	Mark Baytan
EUT:	RAD7CA				
Configuration:	2				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	Transmitting 802.11(b/g) Channel 11, 1 Mbps.				
Deviations:	None				
Comments:	Power Setting = 99. Port 1.				

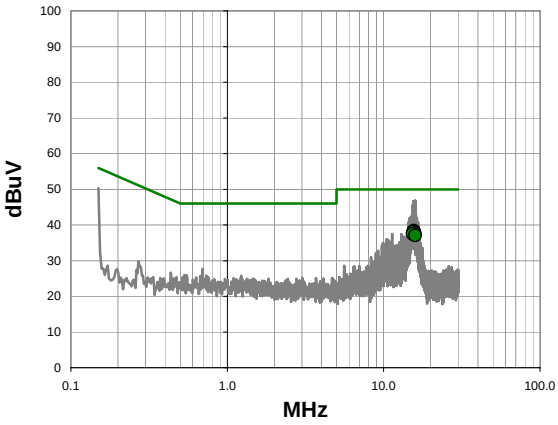
Test Specifications	**Test Method**
FCC 15.247:2011	ANSI C63.10:2009

Run #	15	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.463	25.5	20.7	46.2	60.0	-13.8
15.521	25.4	20.7	46.1	60.0	-13.9
15.594	25.4	20.7	46.1	60.0	-13.9
15.828	24.9	20.7	45.6	60.0	-14.4
15.321	24.4	20.7	45.1	60.0	-14.9
15.886	24.0	20.7	44.7	60.0	-15.3

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.594	17.7	20.7	38.4	50.0	-11.6
15.463	17.4	20.7	38.1	50.0	-11.9
15.521	17.4	20.7	38.1	50.0	-11.9
15.828	17.0	20.7	37.7	50.0	-12.3
15.321	16.8	20.7	37.5	50.0	-12.5
15.886	16.3	20.7	37.0	50.0	-13.0

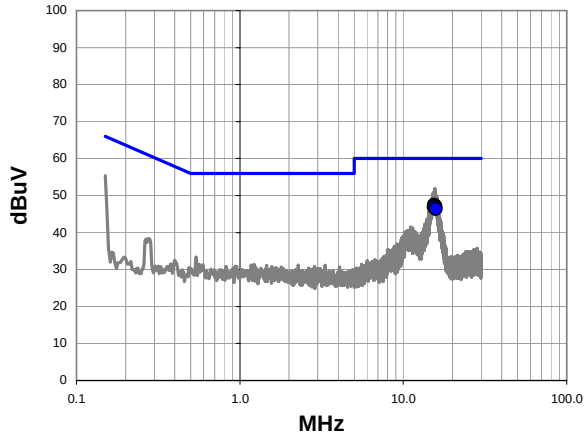
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	MASI0095	**Date:**	04/20/12		
Project:	None	**Temperature:**	25.05 °C		
Job Site:	OC06	**Humidity:**	48.3% RH		
Serial Number:	34996 Rev C.	**Barometric Pres.:**	1011 mbar	**Tested by:**	Mark Baytan
EUT:	RAD7CA				
Configuration:	2				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	Transmitting 802.11(a) Channel 149, 6 Mbps.				
Deviations:	None				
Comments:	Power Setting = 99. Port 1.				

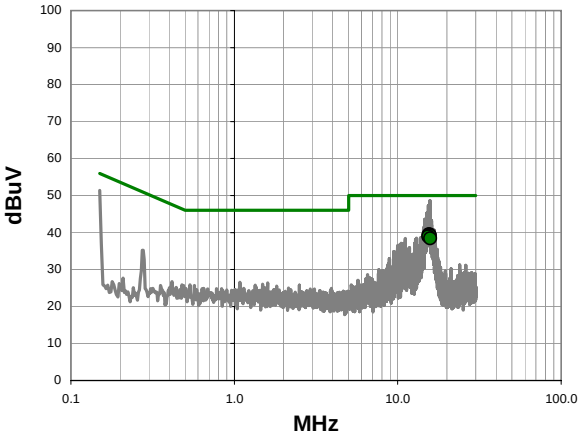
Test Specifications	**Test Method**
FCC 15.247:2011	ANSI C63.10:2009

Run #	16	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.467	26.8	20.7	47.5	60.0	-12.5
15.583	26.5	20.7	47.2	60.0	-12.8
15.769	26.4	20.7	47.1	60.0	-12.9
15.649	26.3	20.7	47.0	60.0	-13.0
15.383	26.2	20.7	46.9	60.0	-13.1
15.835	25.7	20.7	46.4	60.0	-13.6

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.583	18.8	20.7	39.5	50.0	-10.5
15.467	18.7	20.7	39.4	50.0	-10.6
15.649	18.7	20.7	39.4	50.0	-10.6
15.769	18.5	20.7	39.2	50.0	-10.8
15.383	18.2	20.7	38.9	50.0	-11.1
15.835	17.7	20.7	38.4	50.0	-11.6

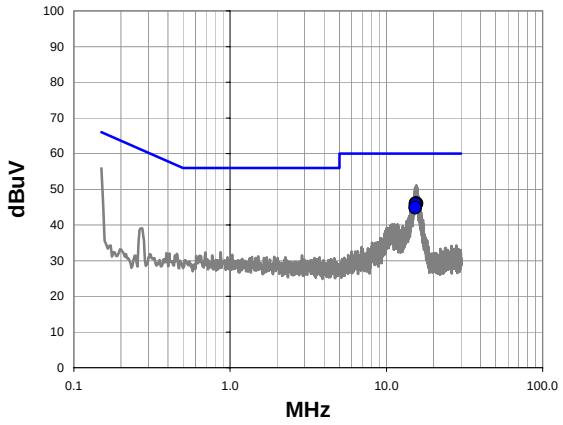
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	MASI0095	**Date:**	04/20/12		
Project:	None	**Temperature:**	25.05 °C		
Job Site:	OC06	**Humidity:**	48.3% RH		
Serial Number:	34996 Rev C.	**Barometric Pres.:**	1011 mbar	**Tested by:**	Mark Baytan
EUT:	RAD7CA				
Configuration:	2				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	Transmitting 802.11(a) Channel 149, 6 Mbps.				
Deviations:	None				
Comments:	Power Setting = 99. Port 1.				

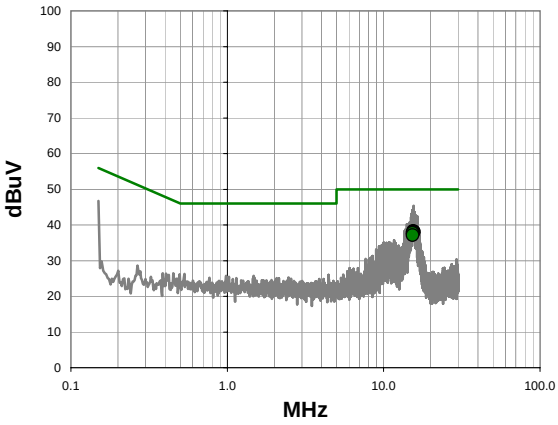
Test Specifications	**Test Method**
FCC 15.247:2011	ANSI C63.10:2009

Run #	17	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.474	25.4	20.7	46.1	60.0	-13.9
15.591	25.3	20.7	46.0	60.0	-14.0
15.514	25.1	20.7	45.8	60.0	-14.2
15.452	25.1	20.7	45.8	60.0	-14.2
15.357	25.1	20.7	45.8	60.0	-14.2
15.303	24.1	20.7	44.8	60.0	-15.2

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.474	17.6	20.7	38.3	50.0	-11.7
15.591	17.4	20.7	38.1	50.0	-11.9
15.514	17.3	20.7	38.0	50.0	-12.0
15.452	17.2	20.7	37.9	50.0	-12.1
15.357	17.1	20.7	37.8	50.0	-12.2
15.303	16.4	20.7	37.1	50.0	-12.9

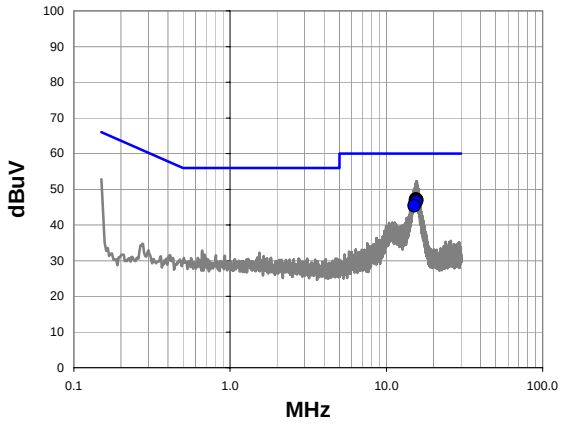
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	MASI0095	**Date:**	04/20/12		
Project:	None	**Temperature:**	25.05 °C		
Job Site:	OC06	**Humidity:**	48.3% RH		
Serial Number:	34996 Rev C.	**Barometric Pres.:**	1011 mbar	**Tested by:**	Mark Baytan
EUT:	RAD7CA				
Configuration:	2				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	Transmitting 802.11(a) Channel 157, 6 Mbps.				
Deviations:	None				
Comments:	Power Setting = 99. Port 1.				

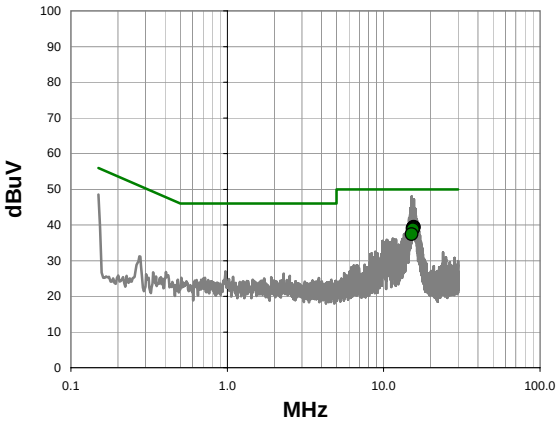
Test Specifications	**Test Method**
FCC 15.247:2011	ANSI C63.10:2009

Run #	18	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.478	26.5	20.7	47.2	60.0	-12.8
15.518	26.5	20.7	47.2	60.0	-12.8
15.645	26.2	20.7	46.9	60.0	-13.1
15.350	26.1	20.7	46.8	60.0	-13.2
15.434	25.9	20.7	46.6	60.0	-13.4
15.543	25.8	20.7	46.5	60.0	-13.5
15.117	24.7	20.7	45.4	60.0	-14.6

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.645	18.8	20.7	39.5	50.0	-10.5
15.478	18.6	20.7	39.3	50.0	-10.7
15.518	18.6	20.7	39.3	50.0	-10.7
15.350	18.3	20.7	39.0	50.0	-11.0
15.543	18.3	20.7	39.0	50.0	-11.0
15.434	18.0	20.7	38.7	50.0	-11.3
15.117	16.7	20.7	37.4	50.0	-12.6

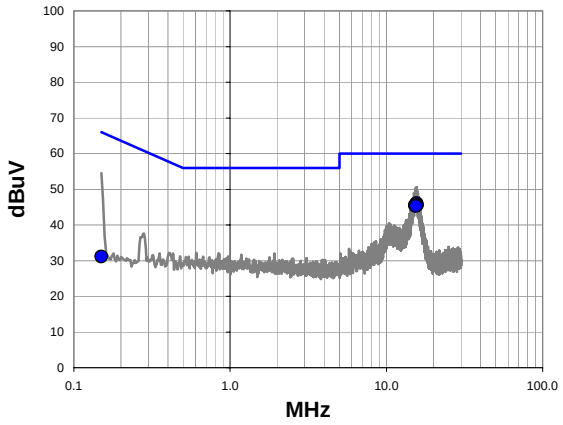
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	MASI0095	**Date:**	04/20/12		
Project:	None	**Temperature:**	25.05 °C		
Job Site:	OC06	**Humidity:**	48.3% RH		
Serial Number:	34996 Rev C.	**Barometric Pres.:**	1011 mbar	**Tested by:**	Mark Baytan
EUT:	RAD7CA				
Configuration:	2				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	Transmitting 802.11(a) Channel 157, 6 Mbps.				
Deviations:	None				
Comments:	Power Setting = 99. Port 1.				

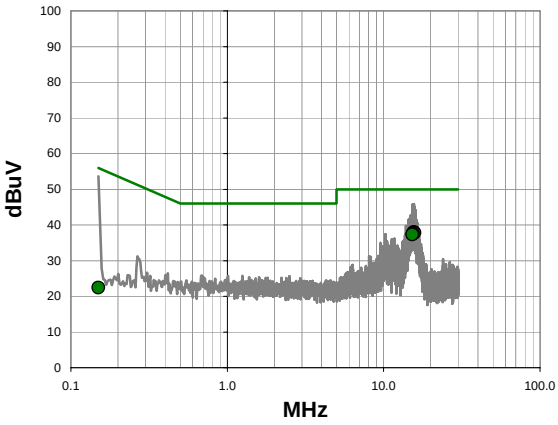
Test Specifications	**Test Method**
FCC 15.247:2011	ANSI C63.10:2009

Run #	19	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.623	25.4	20.7	46.1	60.0	-13.9
15.747	24.9	20.7	45.6	60.0	-14.4
15.336	24.8	20.7	45.5	60.0	-14.5
15.274	24.8	20.7	45.5	60.0	-14.5
15.434	24.6	20.7	45.3	60.0	-14.7
0.150	11.0	20.1	31.1	66.0	-34.9

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.623	17.3	20.7	38.0	50.0	-12.0
15.747	17.1	20.7	37.8	50.0	-12.2
15.434	16.9	20.7	37.6	50.0	-12.4
15.336	16.8	20.7	37.5	50.0	-12.5
15.274	16.6	20.7	37.3	50.0	-12.7
0.150	2.3	20.1	22.4	56.0	-33.6

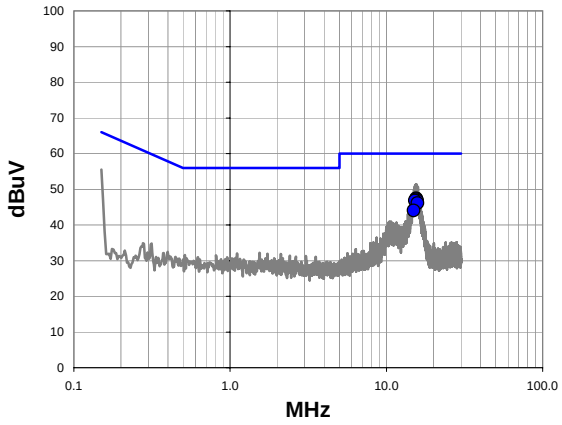
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	MASI0095	**Date:**	04/20/12		
Project:	None	**Temperature:**	25.05 °C		
Job Site:	OC06	**Humidity:**	48.3% RH		
Serial Number:	34996 Rev C.	**Barometric Pres.:**	1011 mbar	**Tested by:**	Mark Baytan
EUT:	RAD7CA				
Configuration:	2				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	Transmitting 802.11(a) Channel 165, 6 Mbps.				
Deviations:	None				
Comments:	Power Setting = 99. Port 1.				

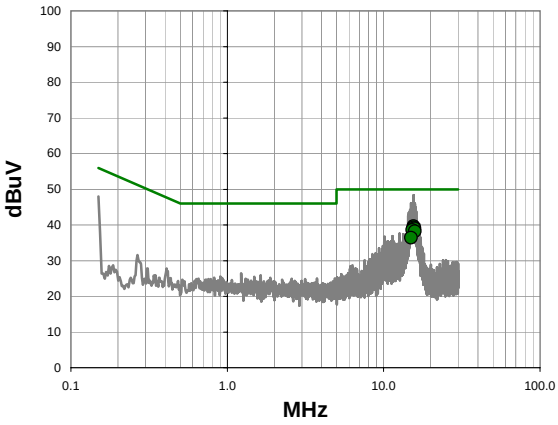
Test Specifications	**Test Method**
FCC 15.247:2011	ANSI C63.10:2009

Run #	20	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.525	26.7	20.7	47.4	60.0	-12.6
15.576	26.5	20.7	47.2	60.0	-12.8
15.769	26.1	20.7	46.8	60.0	-13.2
15.274	26.1	20.7	46.8	60.0	-13.2
15.860	25.4	20.7	46.1	60.0	-13.9
14.949	23.4	20.6	44.0	60.0	-16.0

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.576	18.9	20.7	39.6	50.0	-10.4
15.525	18.6	20.7	39.3	50.0	-10.7
15.769	18.3	20.7	39.0	50.0	-11.0
15.274	17.9	20.7	38.6	50.0	-11.4
15.860	17.5	20.7	38.2	50.0	-11.8
14.949	15.8	20.6	36.4	50.0	-13.6

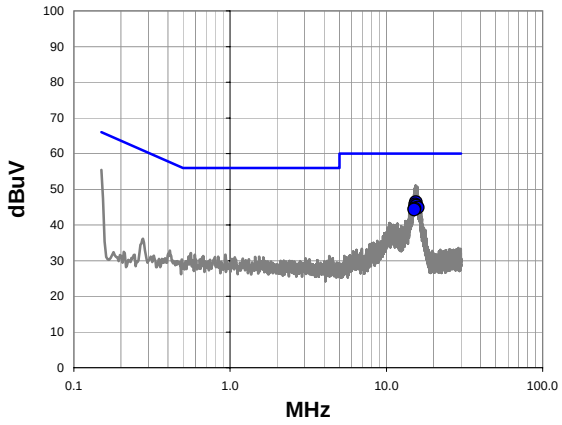
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	MASI0095	**Date:**	04/20/12		
Project:	None	**Temperature:**	25.05 °C		
Job Site:	OC06	**Humidity:**	48.3% RH		
Serial Number:	34996 Rev C.	**Barometric Pres.:**	1011 mbar	**Tested by:**	Mark Baytan
EUT:	RAD7CA				
Configuration:	2				
Customer:	Masimo Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	Transmitting 802.11(a) Channel 165, 6 Mbps.				
Deviations:	None				
Comments:	Power Setting = 99. Port 1.				

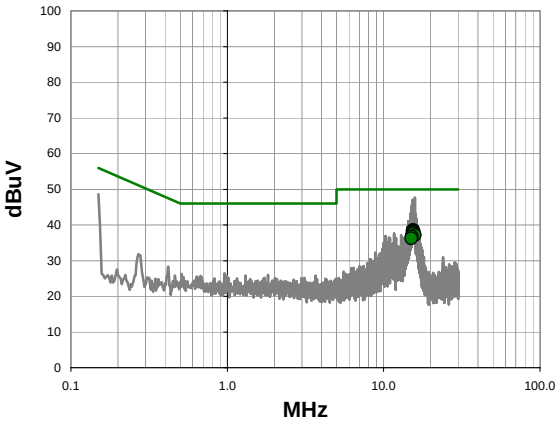
Test Specifications	**Test Method**
FCC 15.247:2011	ANSI C63.10:2009

Run #	21	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.456	25.7	20.7	46.4	60.0	-13.6
15.339	25.0	20.7	45.7	60.0	-14.3
15.503	24.7	20.7	45.4	60.0	-14.6
15.605	24.7	20.7	45.4	60.0	-14.6
15.868	24.1	20.7	44.8	60.0	-15.2
15.150	23.9	20.7	44.6	60.0	-15.4
15.066	23.6	20.7	44.3	60.0	-15.7

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
15.456	17.9	20.7	38.6	50.0	-11.4
15.339	17.6	20.7	38.3	50.0	-11.7
15.605	17.3	20.7	38.0	50.0	-12.0
15.503	17.0	20.7	37.7	50.0	-12.3
15.868	16.4	20.7	37.1	50.0	-12.9
15.150	16.1	20.7	36.8	50.0	-13.2
15.066	15.6	20.7	36.3	50.0	-13.7