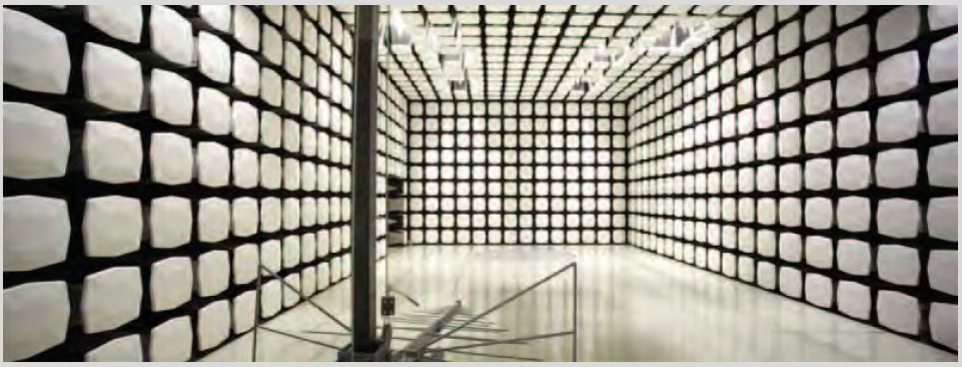
Intel Corporation

The EGG

FCC 15.407:2013

Report #: INSD0001.1



Report Prepared By Northwest EMC Inc.

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

California – Minnesota – Oregon – New York – Washington

CERTIFICATE OF TEST

WTD 12.5.23

Last Date of Test: November 06, 2013
Intel Corporation
Model: The EGG

Emissions

Test Description	Specification	Test Method	Pass/Fail
Duty Cycle	FCC 15.407:2013	ANSI C63.10:2009	Pass
Peak Transmit Power	FCC 15.407:2013	ANSI C63.10:2009	Pass
Peak Power Spectral Density	FCC 15.407:2013	ANSI C63.10:2009	Pass
Emissions Bandwidth	FCC 15.407:2013	ANSI C63.10:2009	Pass
Peak Excursions of the Modulation Envelope	FCC 15.407:2013	ANSI C63.10:2009	Pass
Band Edge Compliance	FCC 15.407:2013	ANSI C63.10:2009	Pass
Frequency Stability	FCC 15.407:2013	ANSI C63.10:2009	Pass
Spurious Radiated Emissions	FCC 15.407:2013	ANSI C63.10:2009	Pass
Powerline Conducted Emissions	FCC 15.207:2013	ANSI C63.10:2009	Pass

Deviations From Test Standards

None

Approved By:

Kyle Holgate, Operations Manager

NVLAP Lab Code: 200630-0

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government of the United States of America.

Product compliance is the responsibility of the client, therefore the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. This Report may only be duplicated in its entirety. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test.

REVISION HISTORY

Revision Number	Description	Date	Page Number
00	None		

Barometric Pressure

The recorded barometric pressure has been normalized to sea level.

ACCREDITATIONS AND AUTHORIZATIONS

REV 2012.05.24

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

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.

SCOPE

For details on the Scopes of our Accreditations, please visit:
http://www.nwemc.com/accreditations/

MEASUREMENT UNCERTAINTY

Measurement Uncertainty

When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. Measurement uncertainty is a statistical expression of measurement error qualified by a probability distribution.

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 (K=2) for each test is listed below. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-1 as applicable), and are available upon request.

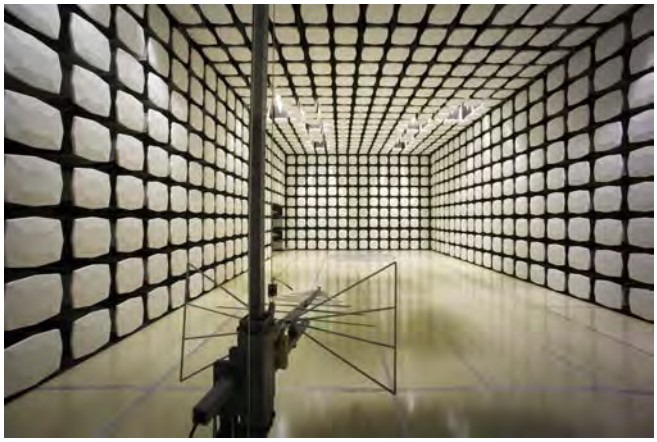
The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

Test	+ MU	- MU
Frequency Accuracy (Hz)	0.12	-0.01
Amplitude Accuracy (dB)	0.49	-0.49
Conducted Power (dB)	0.41	-0.41
Radiated Power via Substitution (dB)	0.69	-0.68
Temperature (degrees C)	0.81	-0.81
Humidity (% RH)	2.89	-2.89
Field Strength (dB)	3.80	-3.80
AC Powerline Conducted Emissions (dB)	2.94	-2.94

FACILITIES

REV 2013.06.28

Oregon	**California**	**New York**	**Minnesota**	**Washington**
Labs EV01-12 22975 NW Evergreen Pkwy Hillsboro, OR 97124 (503) 844-4066	Labs OC01-13 41 Tesla Irvine, CA 92618 (949) 861-8918	Labs NY01-04 4939 Jordan Rd. Elbridge, NY 13060 (315) 685-0796	Labs MN01-08 9349 W Broadway Ave. Brooklyn Park, MN 55445 (763) 425-2281	Labs NC01-05,SU02,SU07 19201 120th Ave. NE Bothell, WA 98011 (425) 984-6600
VCCI				
A-0108	A-0029		A-0109	A-0110
Industry Canada				
2834D-1, 2834D-2	2834B-1, 2834B-2, 2834B-3		2834E-1	2834C-1
NVLAP				
NVLAP Lab Code: 200630-0	NVLAP Lab Code: 200676-0	NVLAP Lab Code: 200761-0	NVLAP Lab Code: 200881-0	NVLAP Lab Code: 200629-0



PRODUCT DESCRIPTION

WTD 12.5.23

Client and Equipment Under Test (EUT) Information

Company Name:	Intel Corporation
Address:	2111 NE 25th Ave
City, State, Zip:	Hillsboro, OR 97124
Test Requested By:	Phil Auzas
Model:	The EGG
First Date of Test:	November 01, 2013
Last Date of Test:	November 06, 2013
Receipt Date of Samples:	October 28, 2013
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):
802.11abgn SISO radio module with 1 stream and 1 antenna.

Testing Objective:
To demonstrate compliance under FCC 15.407 for operation in the 5.2 GHz, 5.3 GHz, and 5.6 GHz bands.

CONFIGURATIONS

Configuration INSD0001- 1

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
The EGG	Intel Corporation	None	99
AC/DC Power Adapter	Salcomp	S11A02	1310001174 60

Remote Equipment Outside of Test Setup Boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Remote Laptop	Hewlett Packard	Elitebook 8540W	CND03204HV

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
USB to USB3	Yes	1m	No	The EGG	AC/DC Power Adapter
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Configuration INSD0001- 2

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
The EGG	Intel Corporation	None	99

Remote Equipment Outside of Test Setup Boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Remote Laptop	Hewlett Packard	Elitebook 8540W	CND03204HV

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
USB to USB3	Yes	0.5m	No	The EGG	Remote Laptop
SMA Adaptor	Yes	0.3m	No	The EGG	SMA Cable
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Configuration INSD0001- 3

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
The EGG	Intel Corporation	None	99

Remote Equipment Outside of Test Setup Boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Remote Laptop	Hewlett Packard	Elitebook 8540W	CND03204HV

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
USB to USB3	Yes	0.5m	No	The EGG	Remote Laptop
DC Leads	No	0.5m	No	DC Power Supply	DMM
DC Leads	No	2m	No	DC Power Supply	The EGG
USB Extension	Yes	3m	No	USB to USB3	Remote Laptop
SMA Adaptor	Yes	0.3m	No	The EGG	SMA Cable
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	11/1/2013	Duty Cycle	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	11/1/2013	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.
3	11/1/2013	Emissions 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.
4	11/1/2013	Peak Transmit 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.
5	11/1/2013	Peak Excursions of the Modulation Envelope	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	11/1/2013	Peak Power Spectral Density	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	11/4/2013	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.
8	11/5/2013	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.
9	11/6/2013	Frequency Stability	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

Duty Cycle

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
Attenuator, 'Precision N'	S.M. Electronics	SA18N-06/SM4032	REE	12/11/2012	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	NCR	0
Power Meter	Gigatronics	8651A	SPM	1/9/2012	24
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	36
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
40GHz DC Block	Miteq	DCB4000	AMD	5/16/2013	12
Spectrum Analyzer	Agilent	E4446A	AAQ	2/7/2012	24

TEST DESCRIPTION

The transmission pulse duration (T) and Duty Cycle (x) were measured for each of the EUT operating modes per the FCC KDB 789033 D01 General UNII Test Procedures.

The measurements were made using a zero span on the spectrum analyzer to see the pulses in the time domain. 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 duty cycle was calculated by dividing the transmission pulse duration (T) by the total period of a single on and total off time.

If the transmit duty cycle < 98 percent, burst gating was used during some of the other tests in this report only measure during the burst duration.

Power Setting by Band:
5180MHz – 5240MHz, Power setting of 5000
5260MHz – 5320MHz, Power setting of 14000
5500MHz – 5700MHz, Power setting of 14000

NORTHWEST EMC

Duty Cycle

EUT:	The EGG	Work Order:	INSD0001
Serial Number:	99	Date:	11/01/13
Customer:	Intel Corporation	Temperature:	22.2°C
Attendees:	None	Humidity:	42%
Project:	None	Barometric Pres.:	1015
Tested by:	Brandon Hobbs	Power: 4 VDC	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 15.407:2013	ANSI C63.10:2009

COMMENTS

The device was running at ≥ 99% duty cycle. The operating instructions for data rate and channel selection were provided by the client.

DEVIATIONS FROM TEST STANDARD

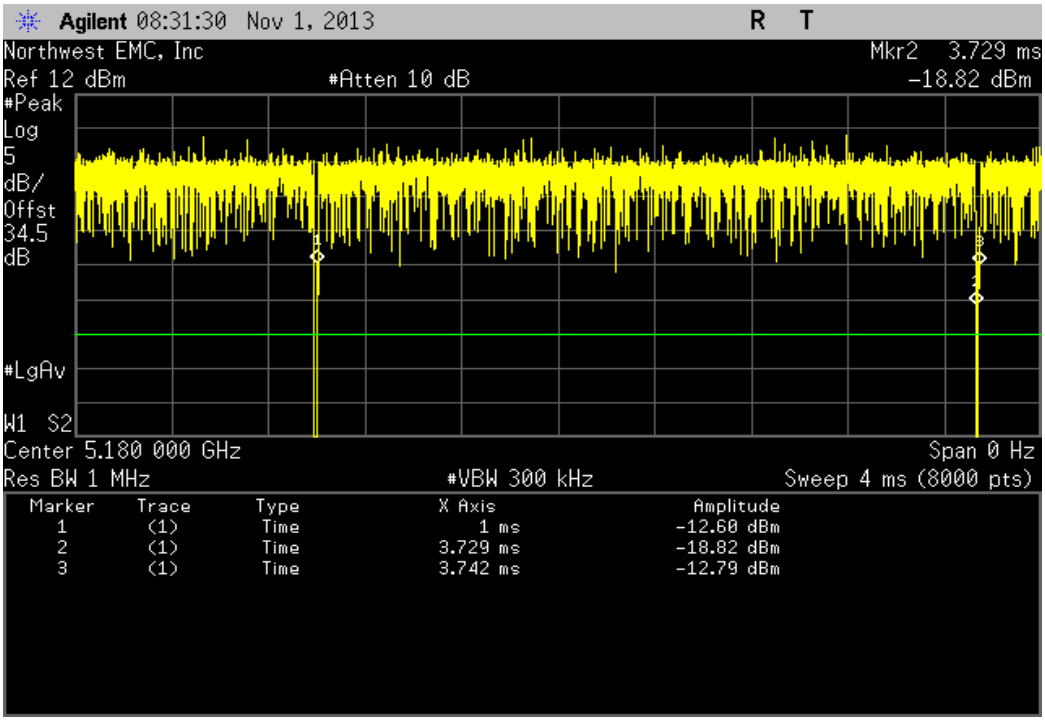
None

Configuration #	2	Signature

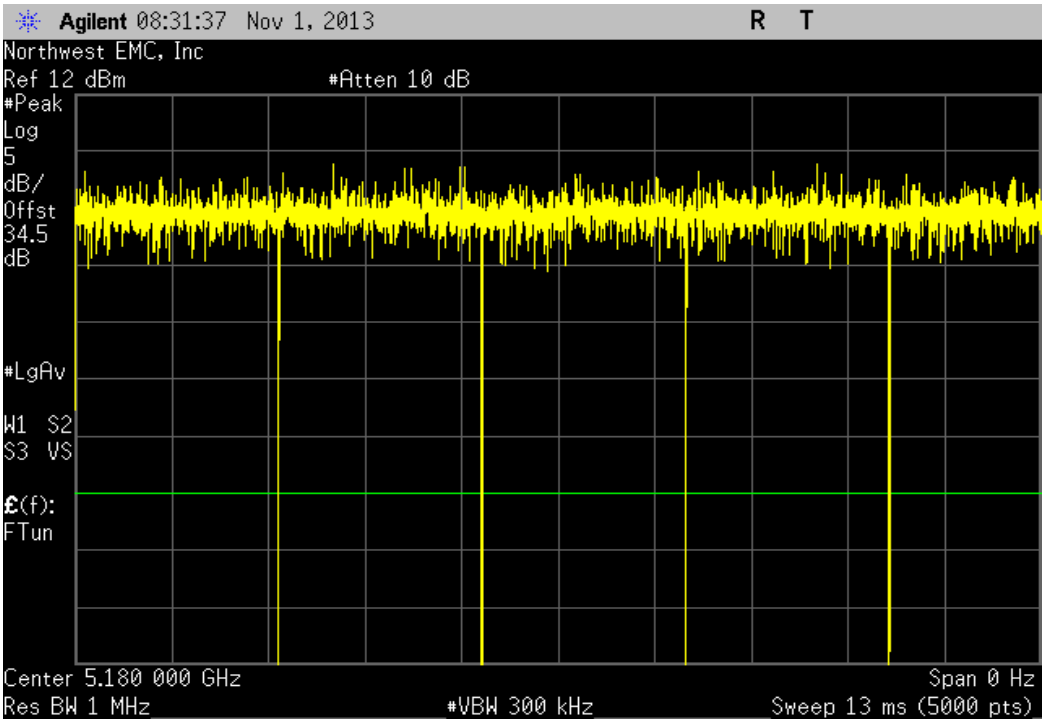
		Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
802.11(a) 6 Mbps							
	5150 - 5250 MHz Band						
	Channel 36, Low Channel	2.729 mS	2.742 mS	1	99.5	N/A	N/A
	Channel 36, Low Channel	N/A	N/A	5	N/A	N/A	N/A
	Channel 48, High Channel	3.727 mS	3.747 mS	1	99.5	N/A	N/A
	Channel 48, High Channel	N/A	N/A	7	N/A	N/A	N/A
	5250 - 5350 MHz Band						
	Channel 52, Low Channel	2.727 mS	2.746 mS	1	99.3	N/A	N/A
	Channel 52, Low Channel	N/A	N/A	5	N/A	N/A	N/A
	Channel 64, High Channel	2.727 mS	2.747 mS	1	99.3	N/A	N/A
	Channel 64, High Channel	N/A	N/A	5	N/A	N/A	N/A
	5470 - 5725 MHz Band						
	Channel 100, Low Channel	2.728 mS	2.747 mS	1	99.3	N/A	N/A
	Channel 100, Low Channel	N/A	N/A	5	N/A	N/A	N/A
	Channel 116, Mid Channel	2.727 mS	2.746 mS	1	99.3	N/A	N/A
	Channel 116, Mid Channel	N/A	N/A	5	N/A	N/A	N/A
	Channel 140, High Channel	3.728 mS	3.746 mS	1	99.5	N/A	N/A
	Channel 140, High Channel	N/A	N/A	7	N/A	N/A	N/A
802.11(a) 36 Mbps							
	5150 - 5250 MHz Band						
	Channel 36, Low Channel	2.728 mS	2.746 mS	1	99.3	N/A	N/A
	Channel 36, Low Channel	N/A	N/A	5	N/A	N/A	N/A
	Channel 48, High Channel	2.728 mS	2.746 mS	1	99.3	N/A	N/A
	Channel 48, High Channel	N/A	N/A	5	N/A	N/A	N/A
	5250 - 5350 MHz Band						
	Channel 52, Low Channel	2.728 mS	2.747 mS	1	99.3	N/A	N/A
	Channel 52, Low Channel	N/A	N/A	5	N/A	N/A	N/A
	Channel 64, High Channel	3.727 mS	3.746 mS	1	99.5	N/A	N/A
	Channel 64, High Channel	N/A	N/A	7	N/A	N/A	N/A
	5470 - 5725 MHz Band						
	Channel 100, Low Channel	3.728 mS	3.747 mS	1	99.5	N/A	N/A
	Channel 100, Low Channel	N/A	N/A	7	N/A	N/A	N/A
	Channel 116, Mid Channel	2.728 mS	2.747 mS	1	99.3	N/A	N/A
	Channel 116, Mid Channel	N/A	N/A	5	N/A	N/A	N/A
	Channel 140, High Channel	2.727 mS	2.747 mS	1	99.3	N/A	N/A
	Channel 140, High Channel	N/A	N/A	5	N/A	N/A	N/A
802.11(a) 54 Mbps							
	5150 - 5250 MHz Band						
	Channel 36, Low Channel	2.728 mS	2.747 mS	1	99.3	N/A	N/A
	Channel 36, Low Channel	N/A	N/A	5	N/A	N/A	N/A
	Channel 48, High Channel	2.728 mS	2.747 mS	1	99.3	N/A	N/A
	Channel 48, High Channel	N/A	N/A	5	N/A	N/A	N/A
	5250 - 5350 MHz Band						
	Channel 52, Low Channel	2.727 mS	2.746 mS	1	99.3	N/A	N/A
	Channel 52, Low Channel	N/A	N/A	5	N/A	N/A	N/A
	Channel 64, High Channel	2.727 mS	2.747 mS	1	99.3	N/A	N/A
	Channel 64, High Channel	N/A	N/A	5	N/A	N/A	N/A
	5470 - 5725 MHz Band						
	Channel 100, Low Channel	2.727 mS	2.747 mS	1	99.3	N/A	N/A
	Channel 100, Low Channel	N/A	N/A	5	N/A	N/A	N/A
	Channel 116, Mid Channel	2.727 mS	2.746 mS	1	99.3	N/A	N/A
	Channel 116, Mid Channel	N/A	N/A	5	N/A	N/A	N/A
	Channel 140, High Channel	3.728 mS	3.748 mS	1	99.5	N/A	N/A
	Channel 140, High Channel	N/A	N/A	7	N/A	N/A	N/A
802.11(n) MCS0							
	5150 - 5250 MHz Band						
	Channel 36, Low Channel	2.729 mS	2.742 mS	1	99.5	N/A	N/A
	Channel 36, Low Channel	N/A	N/A	5	N/A	N/A	N/A
	Channel 48, High Channel	2.728 mS	2.747 mS	1	99.3	N/A	N/A
	Channel 48, High Channel	N/A	N/A	5	N/A	N/A	N/A
	5250 - 5350 MHz Band						
	Channel 52, Low Channel	3.727 mS	3.747 mS	1	99.5	N/A	N/A
	Channel 52, Low Channel	N/A	N/A	7	N/A	N/A	N/A
	Channel 64, High Channel	2.727 mS	2.745 mS	1	99.3	N/A	N/A
	Channel 64, High Channel	N/A	N/A	5	N/A	N/A	N/A
	5470 - 5725 MHz Band						
	Channel 100, Low Channel	2.727 mS	2.728 mS	1	100	N/A	N/A
	Channel 100, Low Channel	N/A	N/A	5	N/A	N/A	N/A
	Channel 116, Mid Channel	2.728 mS	2.745 mS	1	99.4	N/A	N/A
	Channel 116, Mid Channel	N/A	N/A	5	N/A	N/A	N/A
	Channel 140, High Channel	2.727 mS	2.747 mS	1	99.3	N/A	N/A
	Channel 140, High Channel	N/A	N/A	5	N/A	N/A	N/A
802.11(n) MCS7							
	5150 - 5250 MHz Band						
	Channel 36, Low Channel	3.727 mS	3.748 mS	1	99.4	N/A	N/A
	Channel 36, Low Channel	N/A	N/A	5	N/A	N/A	N/A
	Channel 48, High Channel	3.727 mS	3.748 mS	1	99.4	N/A	N/A
	Channel 48, High Channel	N/A	N/A	7	N/A	N/A	N/A
	5250 - 5350 MHz Band						
	Channel 52, Low Channel	2.721 mS	2.741 mS	1	99.3	N/A	N/A
	Channel 52, Low Channel	N/A	N/A	5	N/A	N/A	N/A
	Channel 64, High Channel	2.727 mS	2.747 mS	1	99.3	N/A	N/A
	Channel 64, High Channel	N/A	N/A	5	N/A	N/A	N/A
	5470 - 5725 MHz Band						
	Channel 100, Low Channel	2.728 mS	2.748 mS	1	99.3	N/A	N/A
	Channel 100, Low Channel	N/A	N/A	5	N/A	N/A	N/A
	Channel 116, Mid Channel	2.727 mS	2.747 mS	1	99.3	N/A	N/A
	Channel 116, Mid Channel	N/A	N/A	5	N/A	N/A	N/A
	Channel 140, High Channel	2.727 mS	2.747 mS	1	99.3	N/A	N/A
	Channel 140, High Channel	N/A	N/A	5	N/A	N/A	N/A

Duty Cycle

802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.729 mS	2.742 mS	1	99.5	N/A	N/A

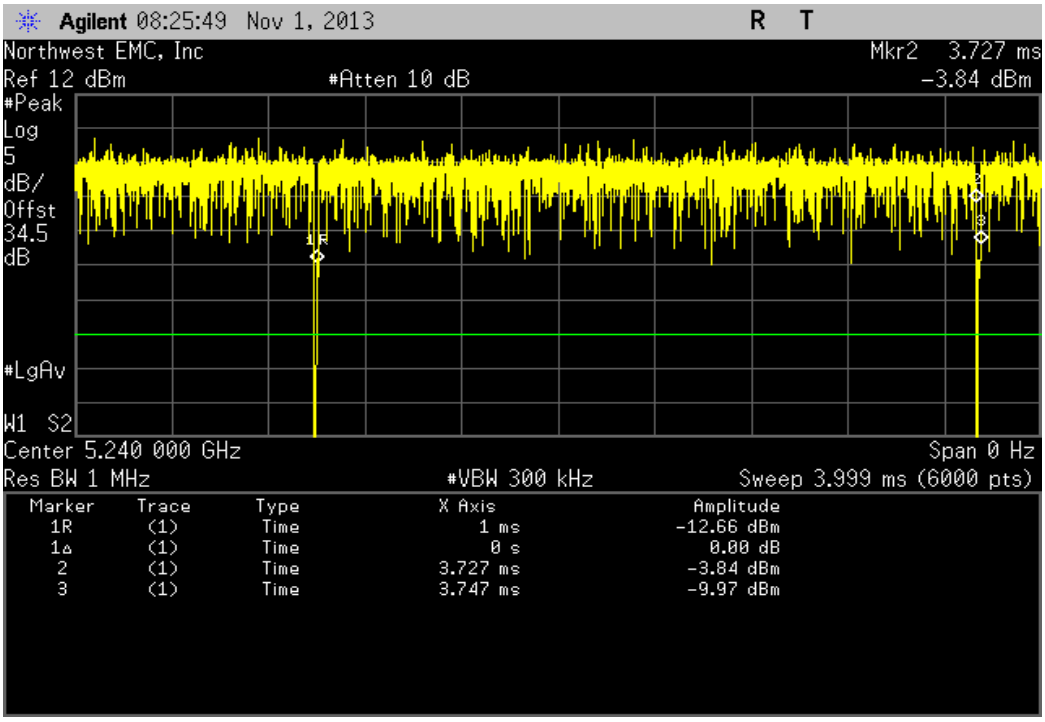


802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

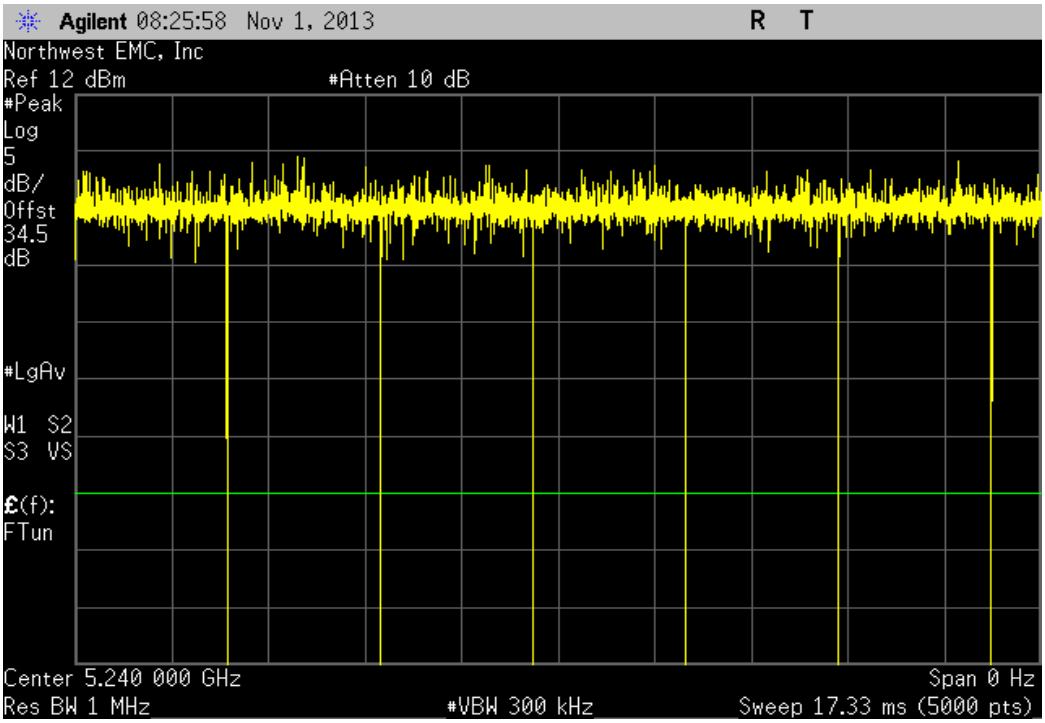


Duty Cycle

802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	3.727 mS	3.747 mS	1	99.5	N/A	N/A

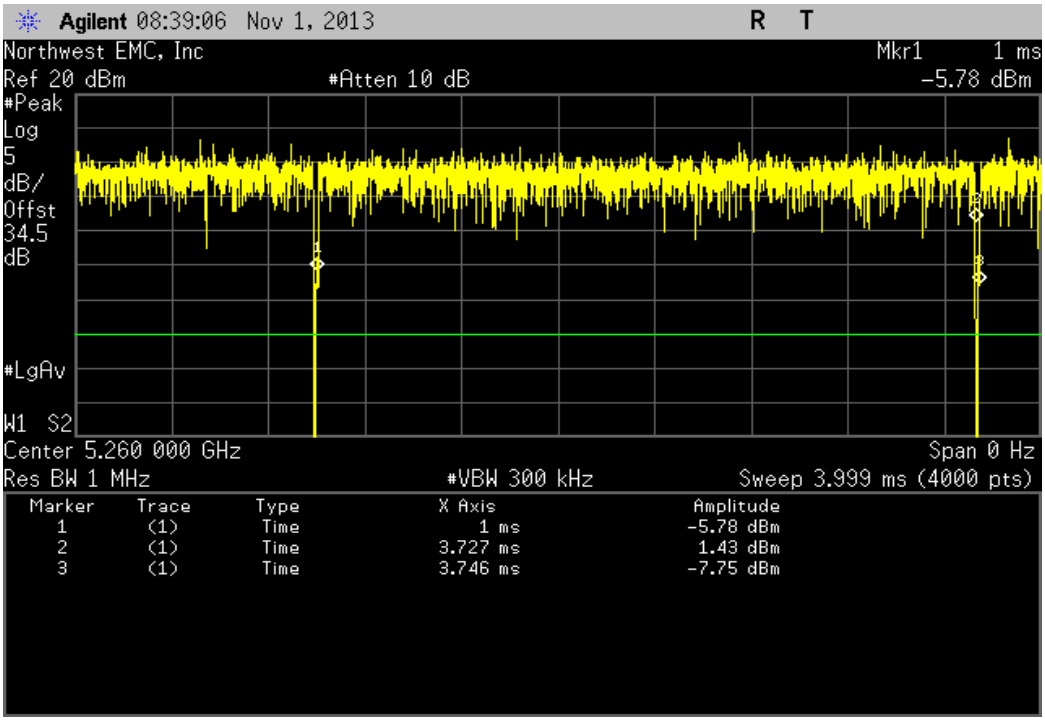


802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	7	N/A	N/A	N/A

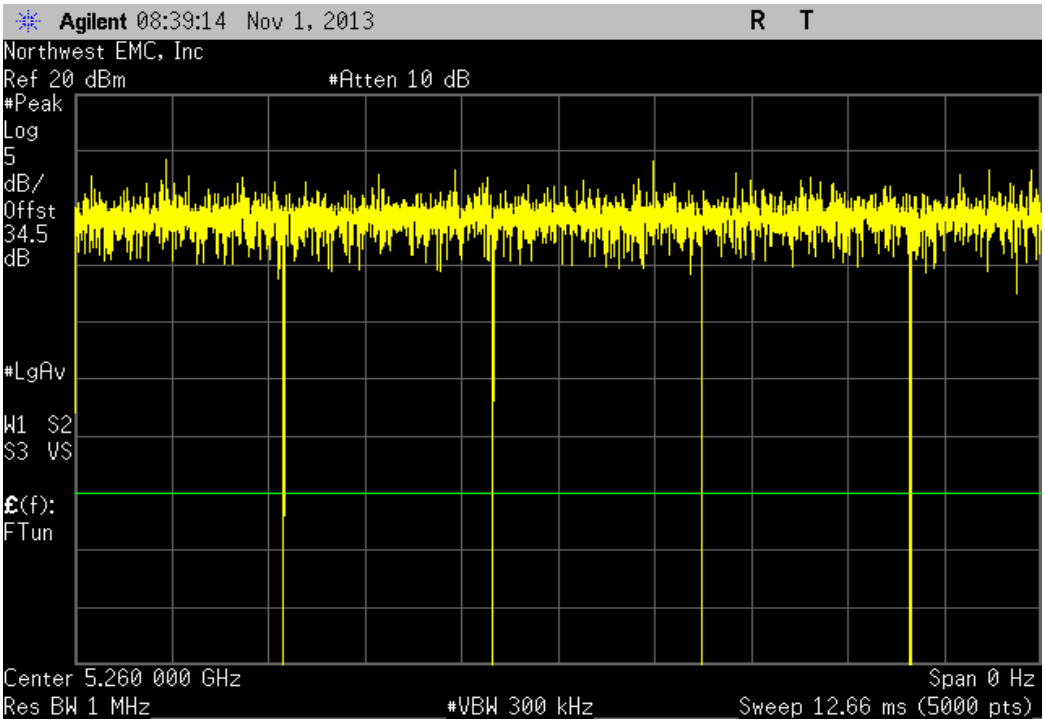


Duty Cycle

802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.727 mS	2.746 mS	1	99.3	N/A	N/A

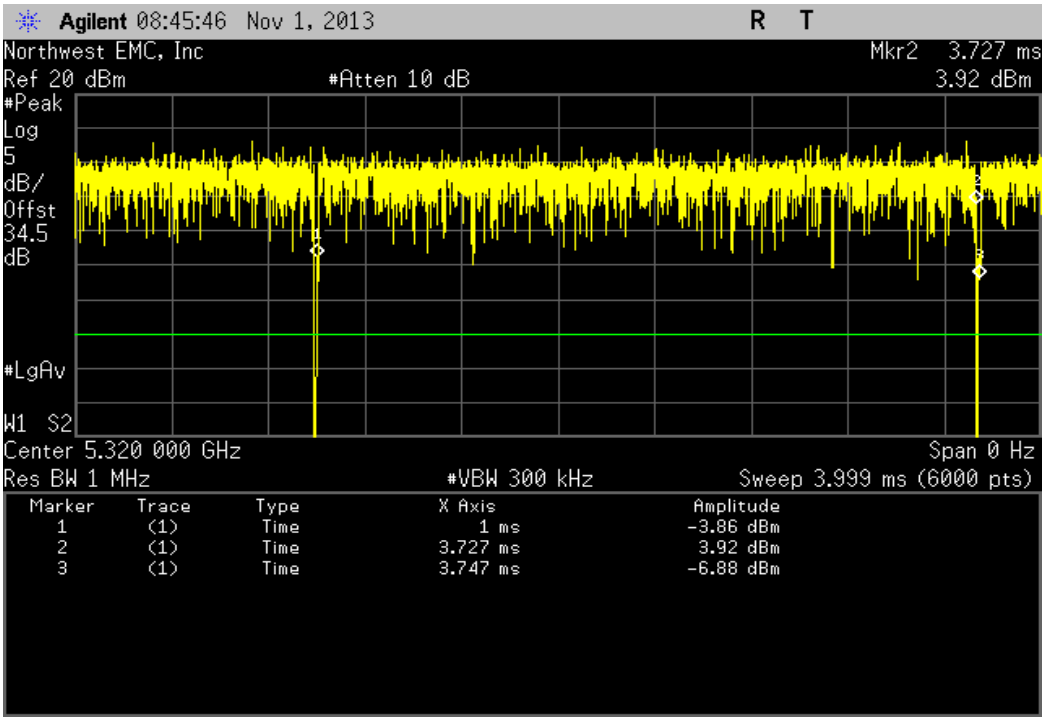


802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

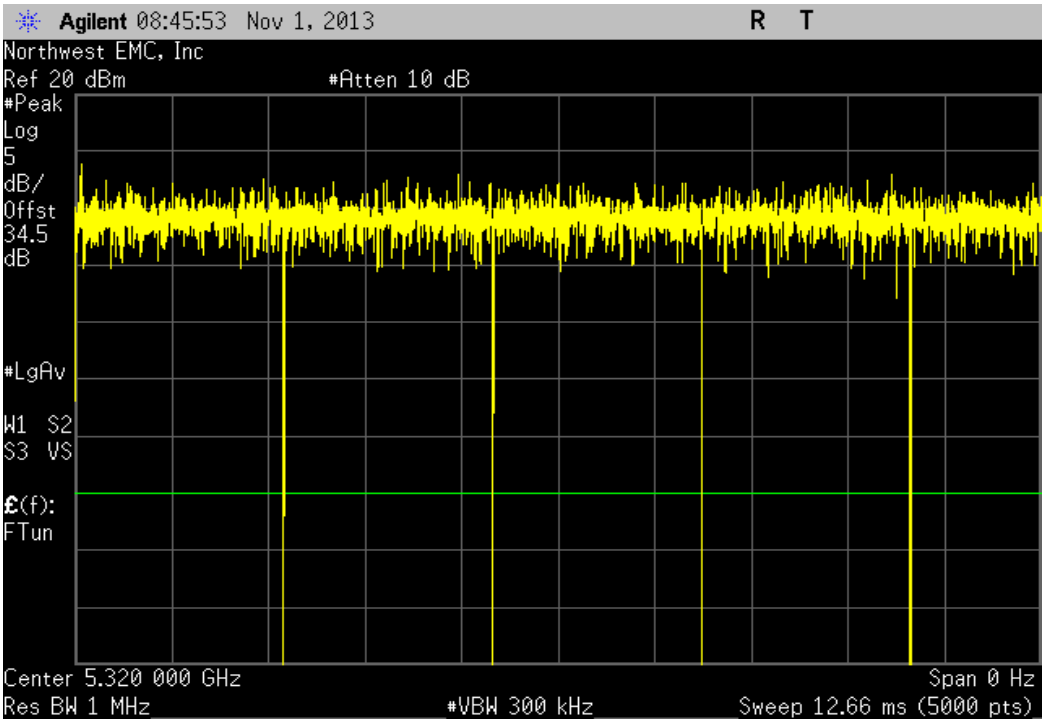


Duty Cycle

802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.727 mS	2.747 mS	1	99.3	N/A	N/A

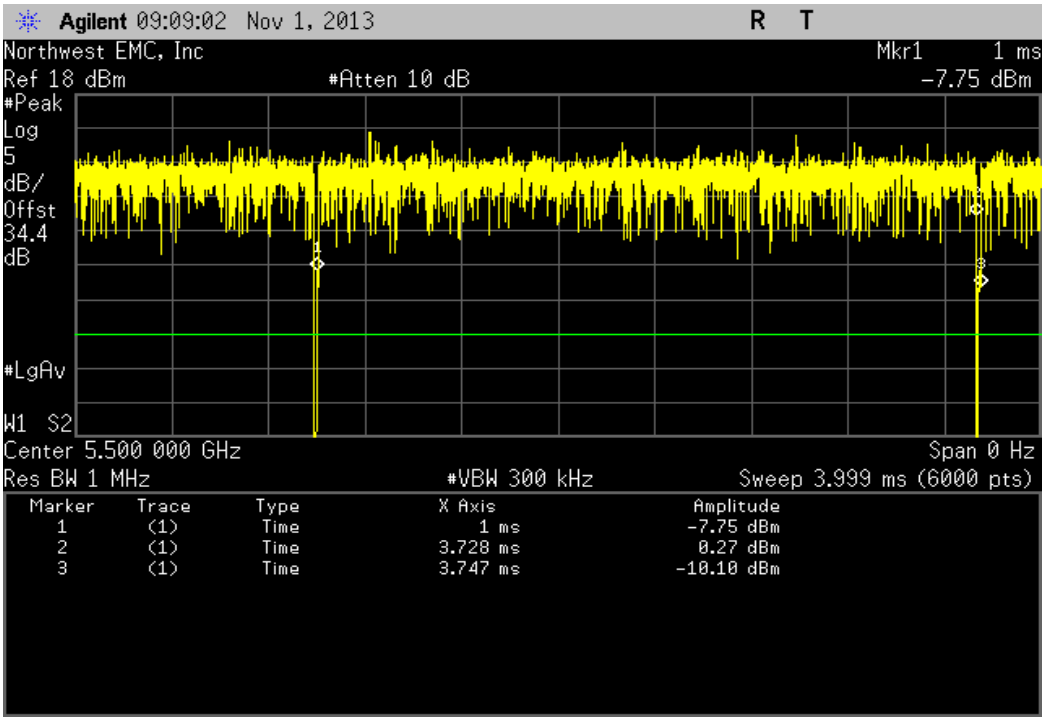


802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

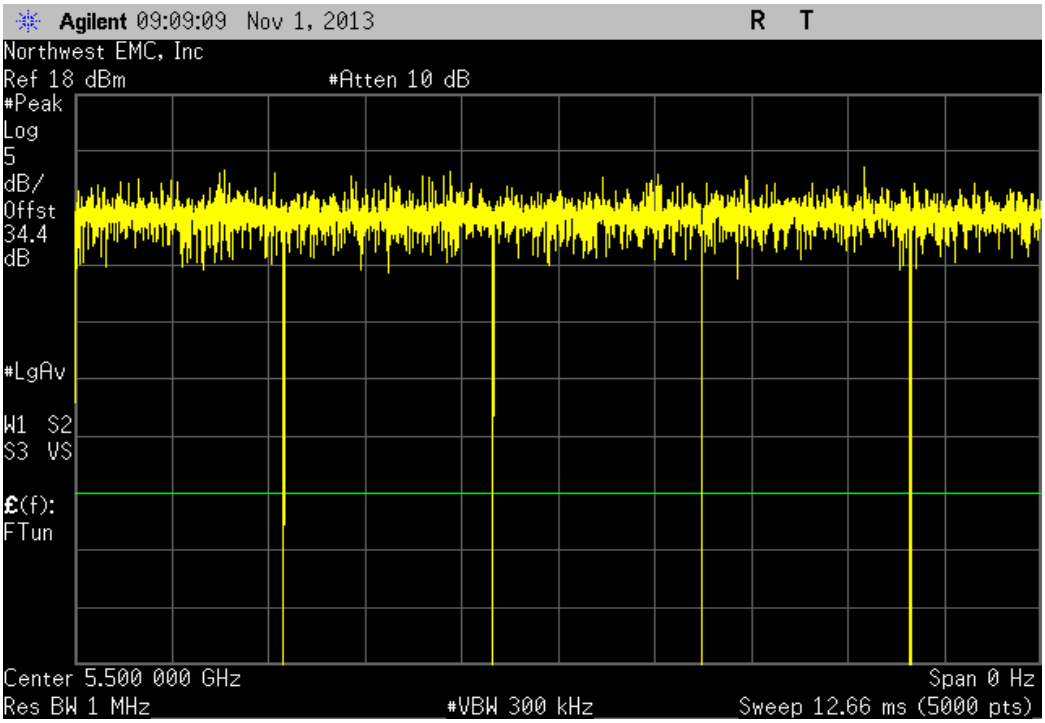


Duty Cycle

802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.728 mS	2.747 mS	1	99.3	N/A	N/A

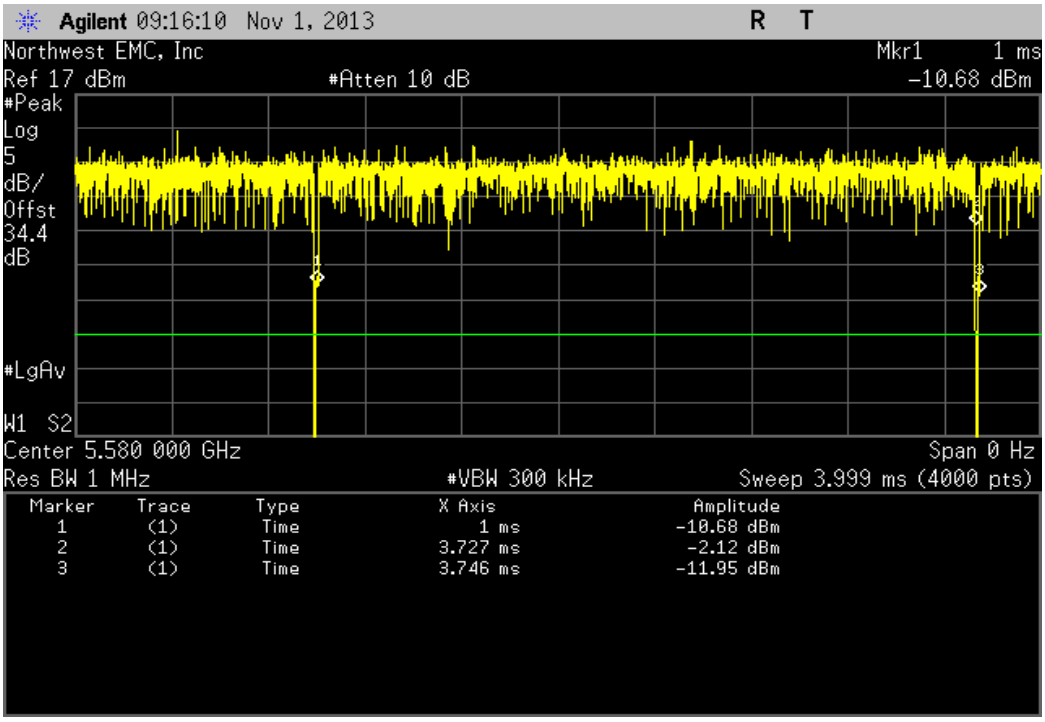


802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

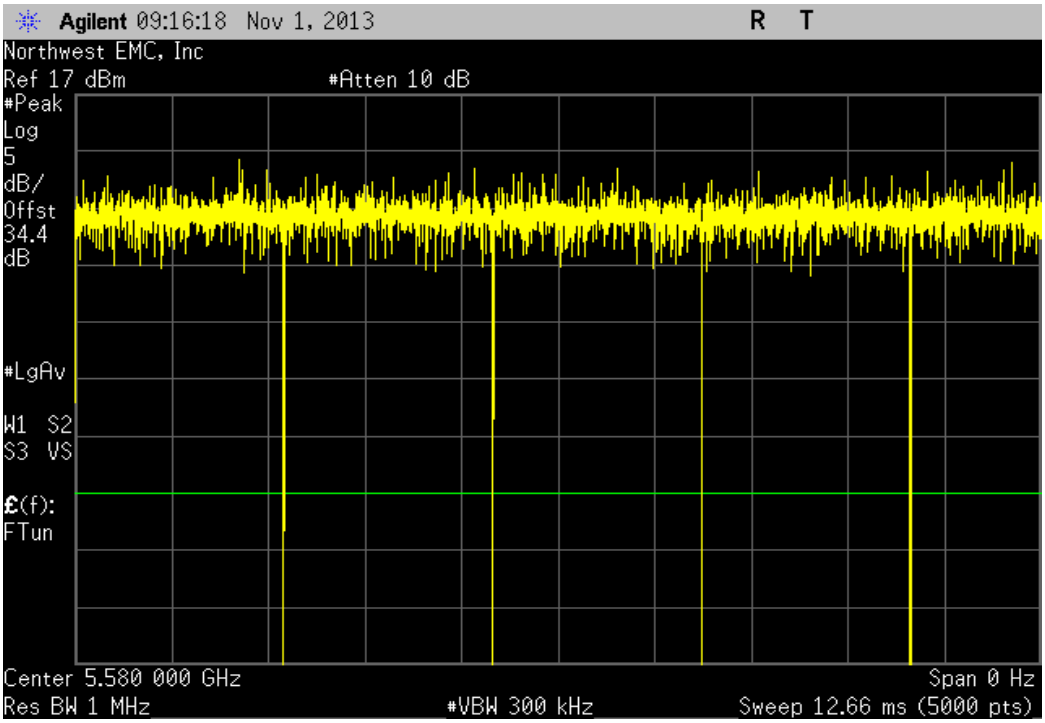


Duty Cycle

802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.727 mS	2.746 mS	1	99.3	N/A	N/A



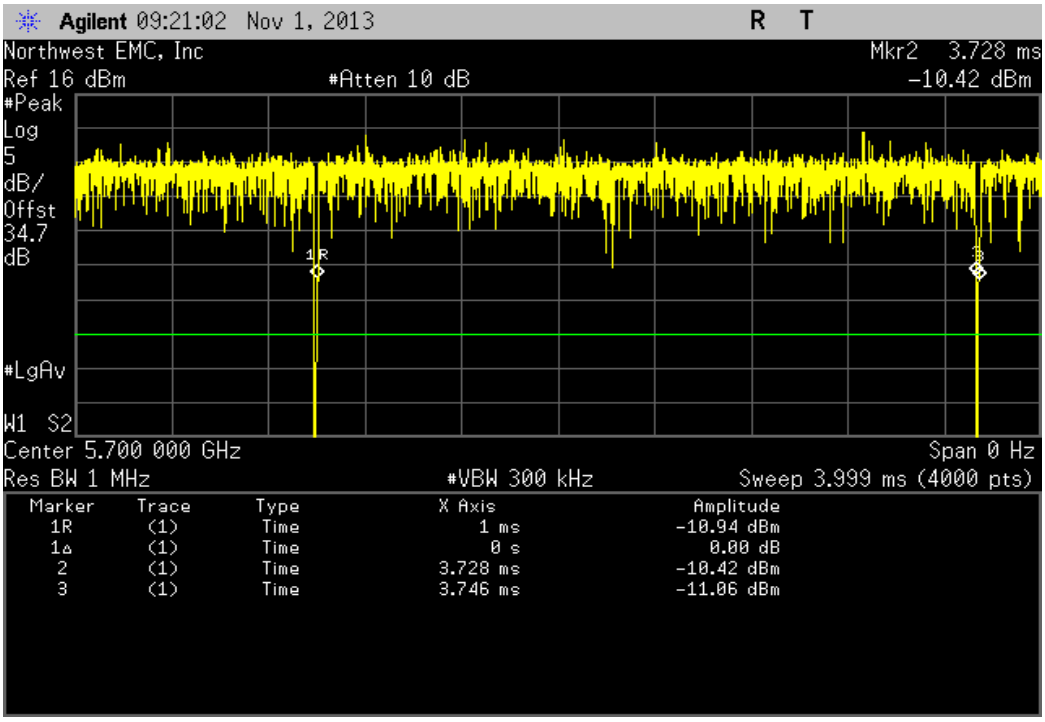
802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



Duty Cycle

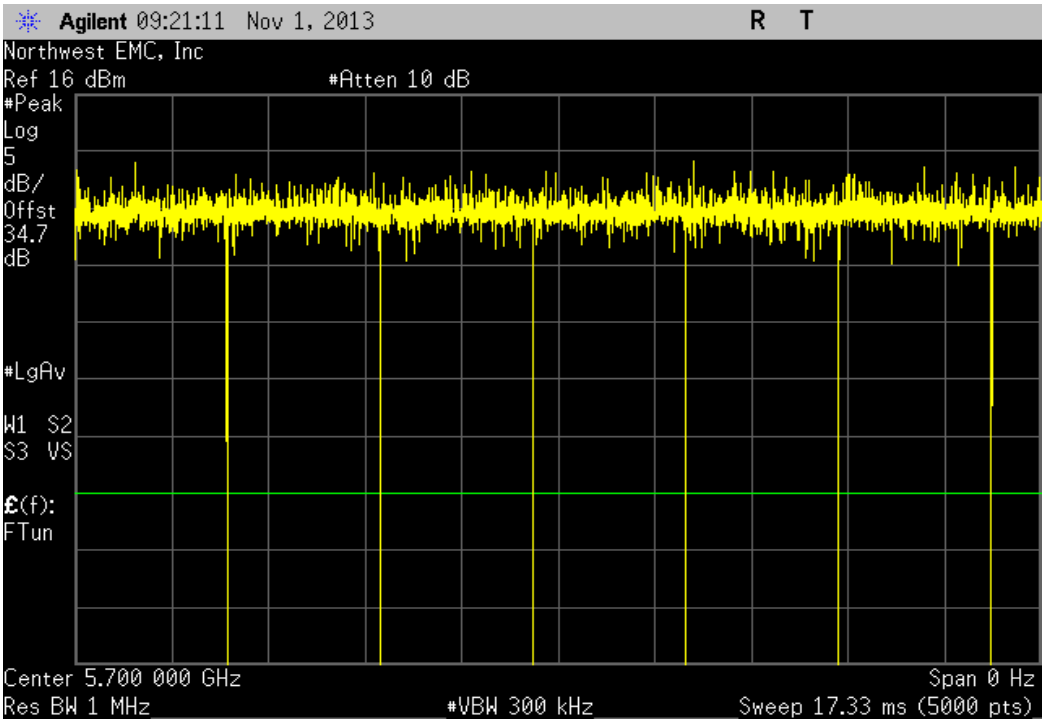
802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	3.728 mS	3.746 mS	1	99.5	N/A	N/A



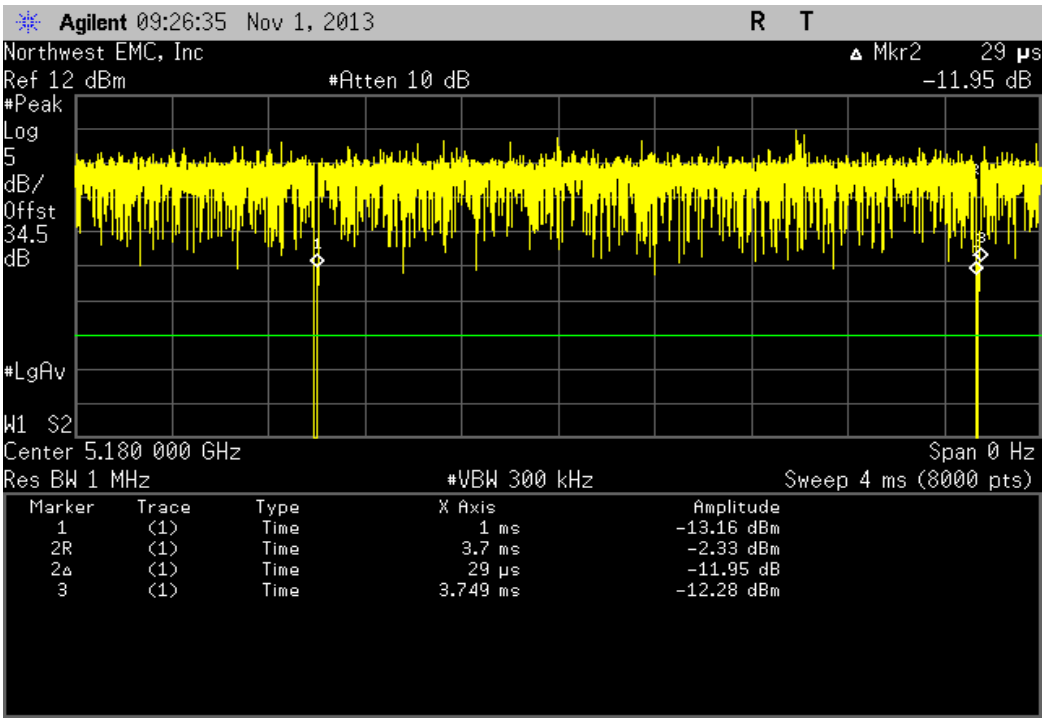
802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	7	N/A	N/A	N/A

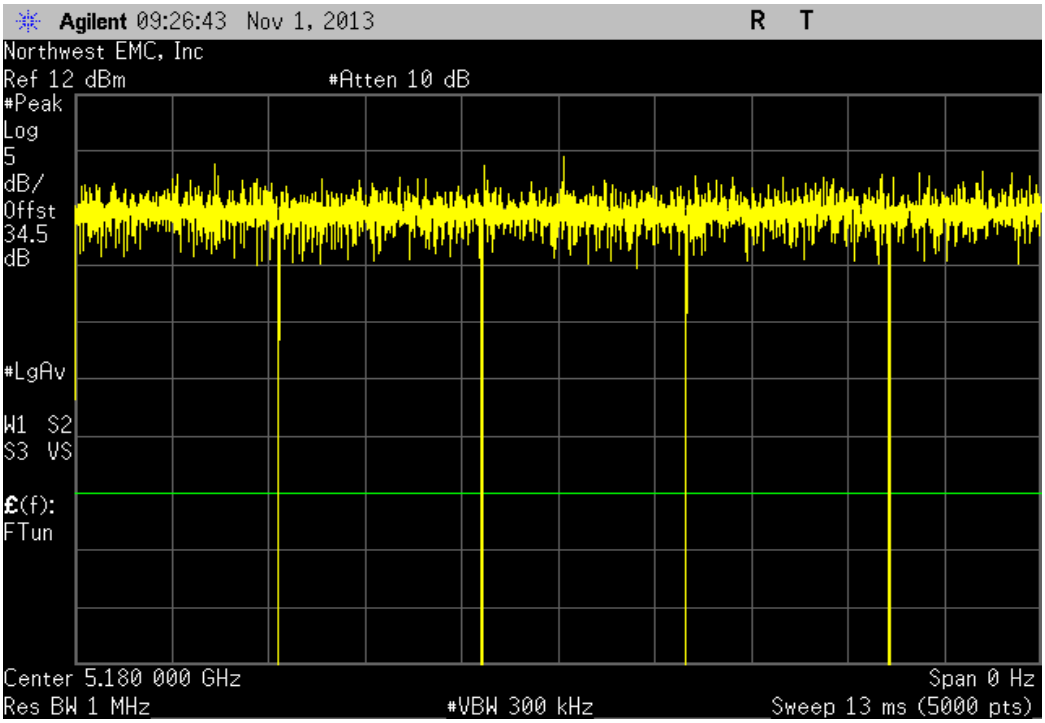


Duty Cycle

802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.728 mS	2.746 mS	1	99.3	N/A	N/A

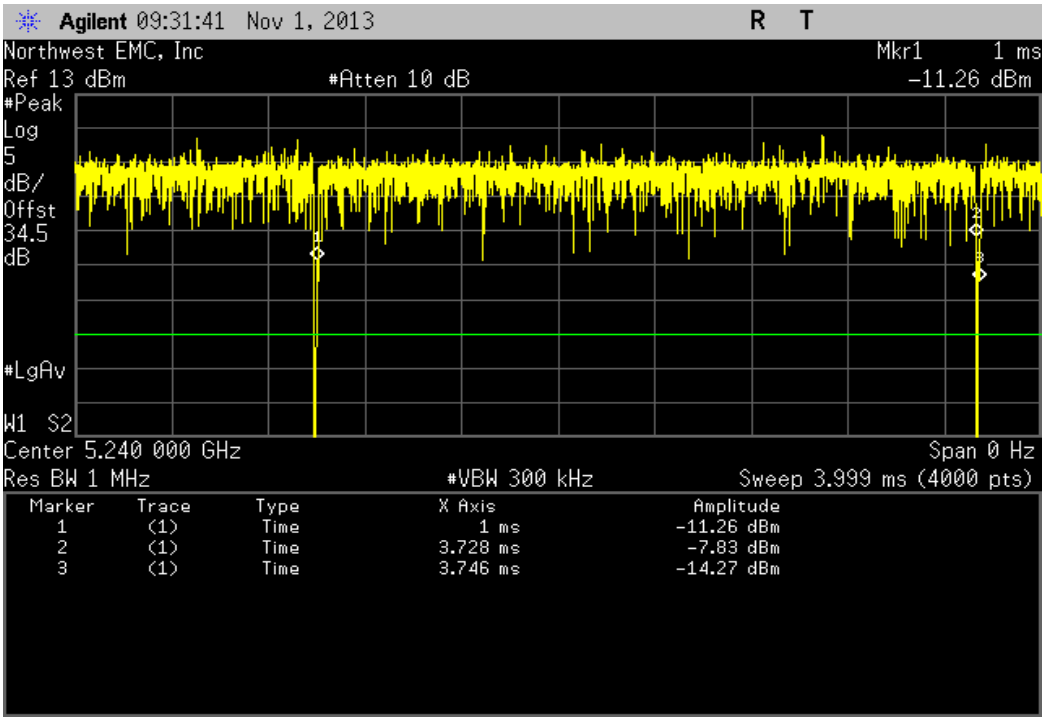


802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

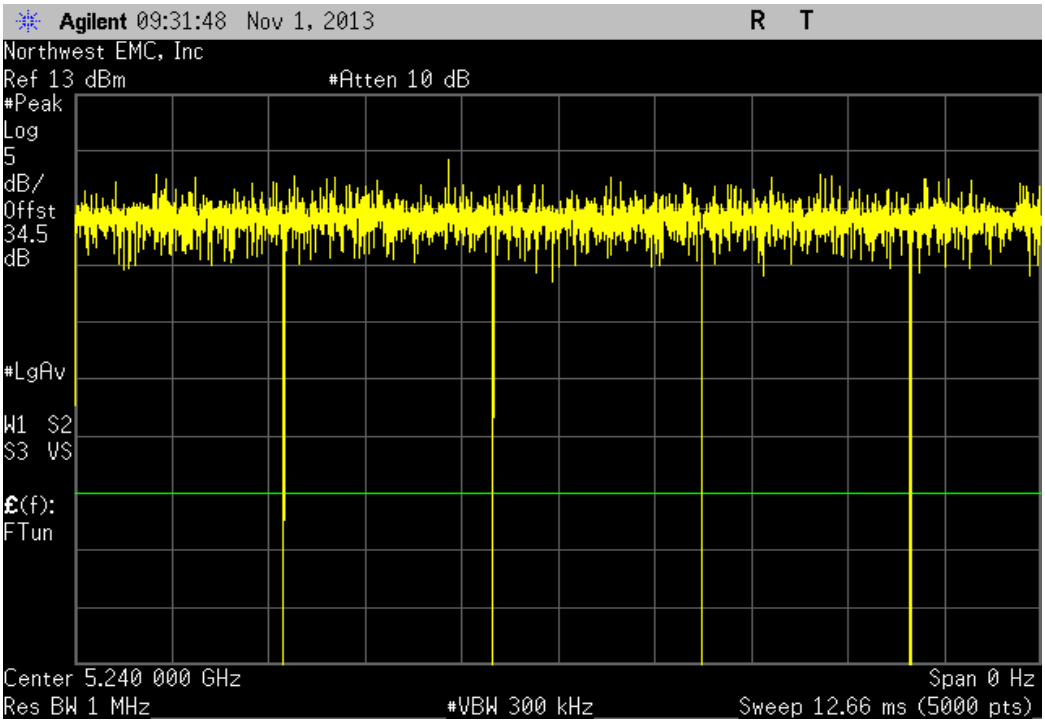


Duty Cycle

802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.728 mS	2.746 mS	1	99.3	N/A	N/A

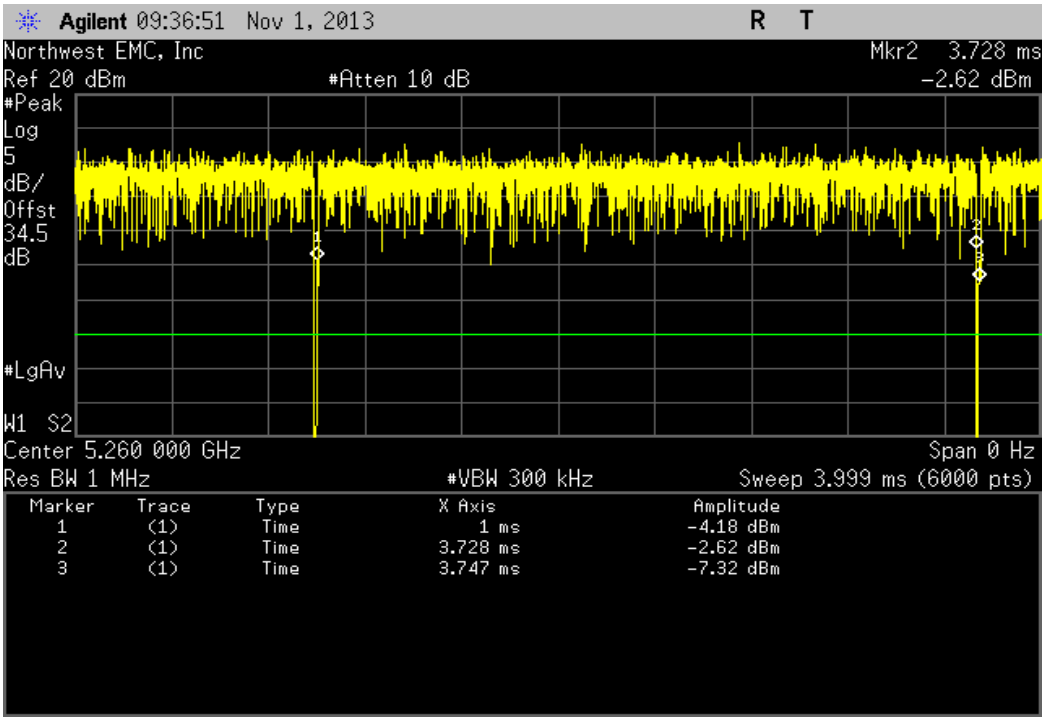


802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

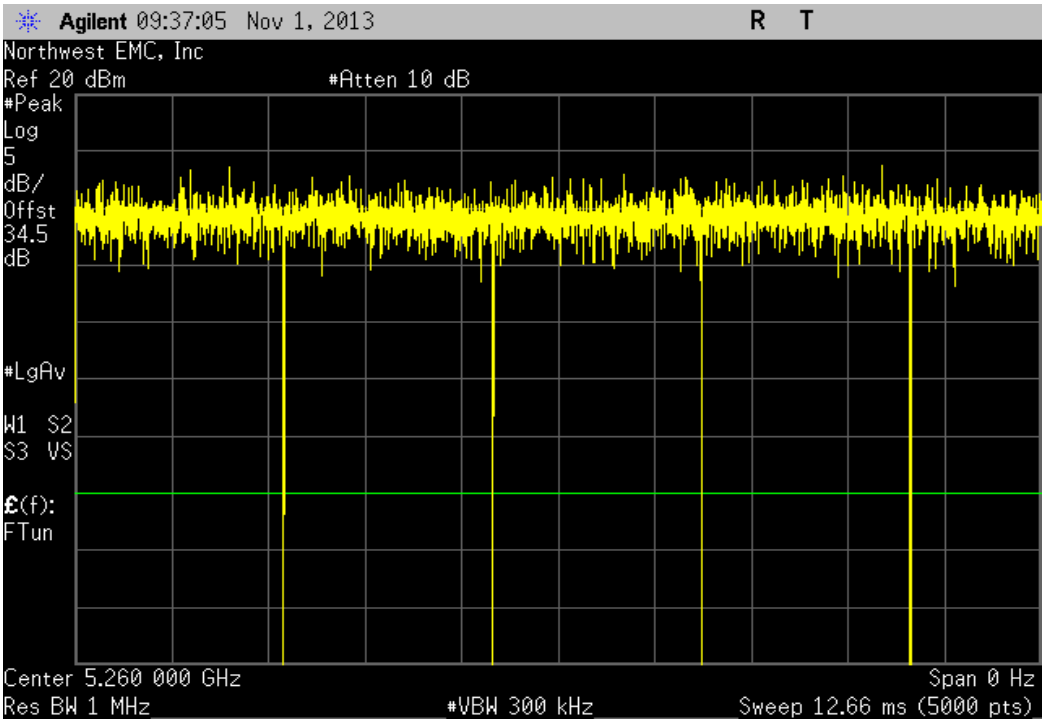


Duty Cycle

802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.728 mS	2.747 mS	1	99.3	N/A	N/A

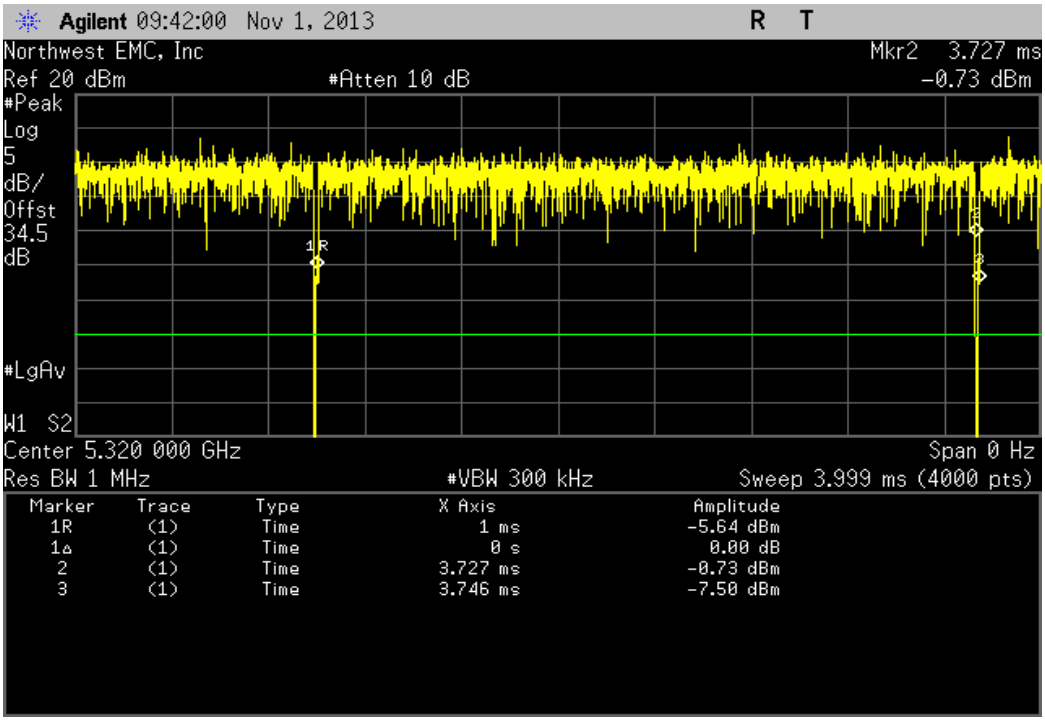


802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

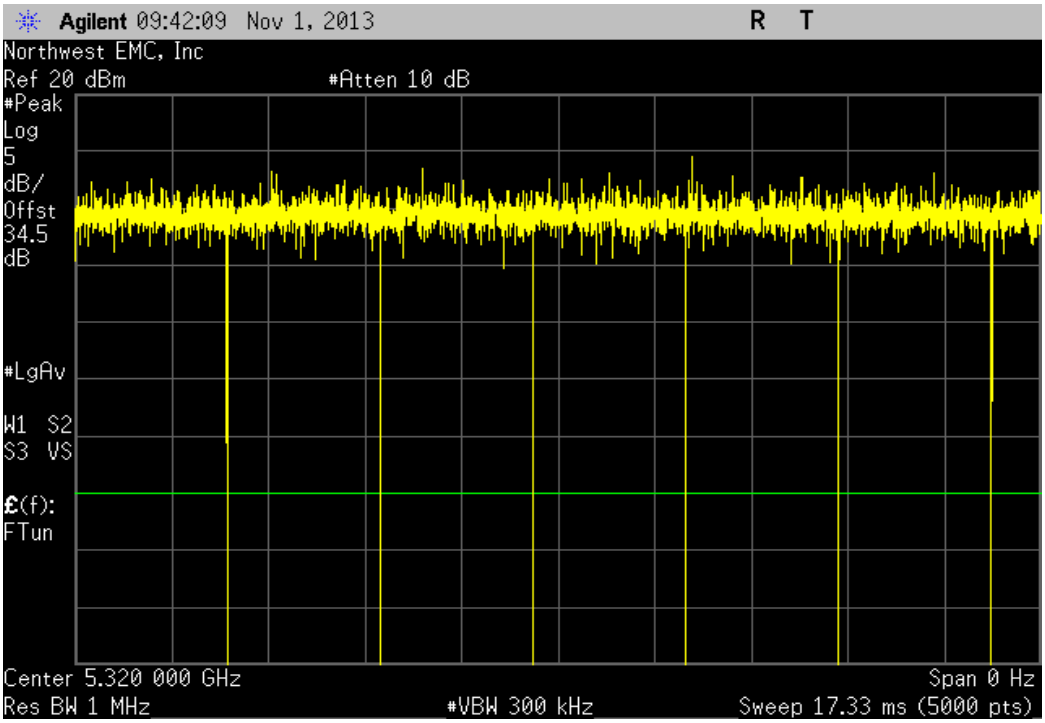


Duty Cycle

802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	3.727 mS	3.746 mS	1	99.5	N/A	N/A

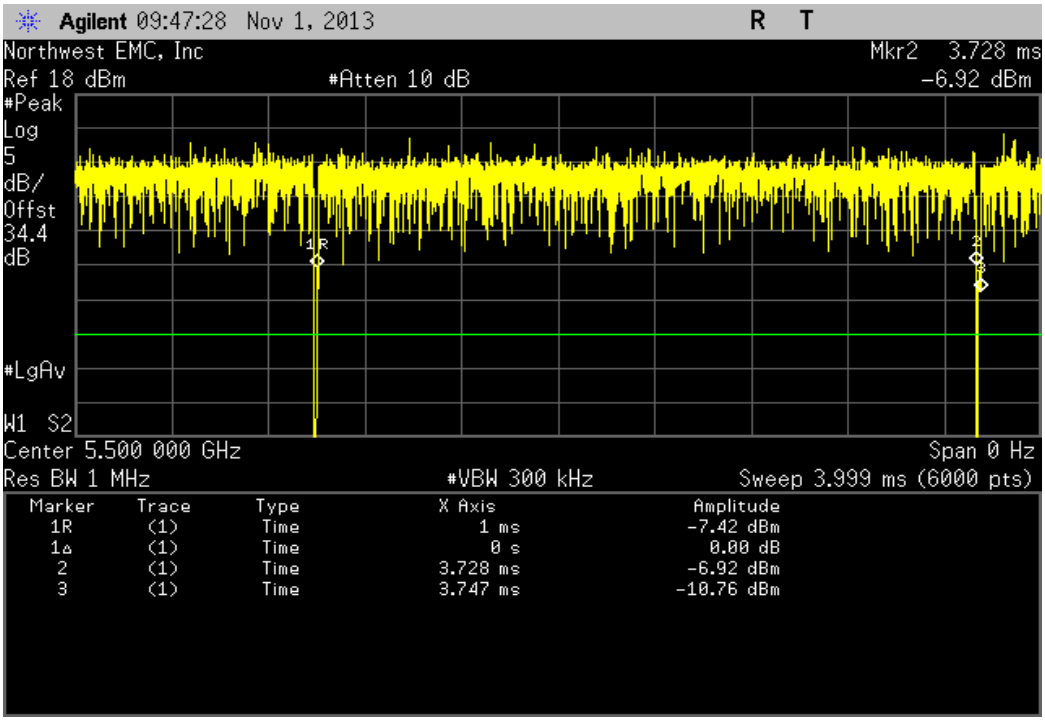


802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	7	N/A	N/A	N/A

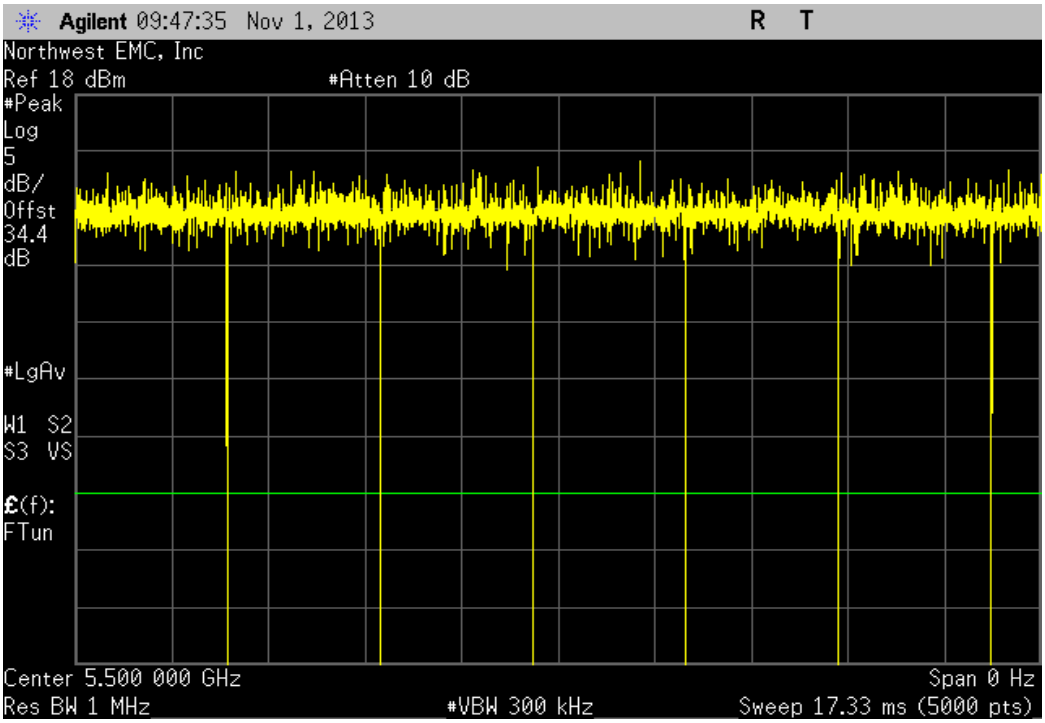


Duty Cycle

802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	3.728 mS	3.747 mS	1	99.5	N/A	N/A

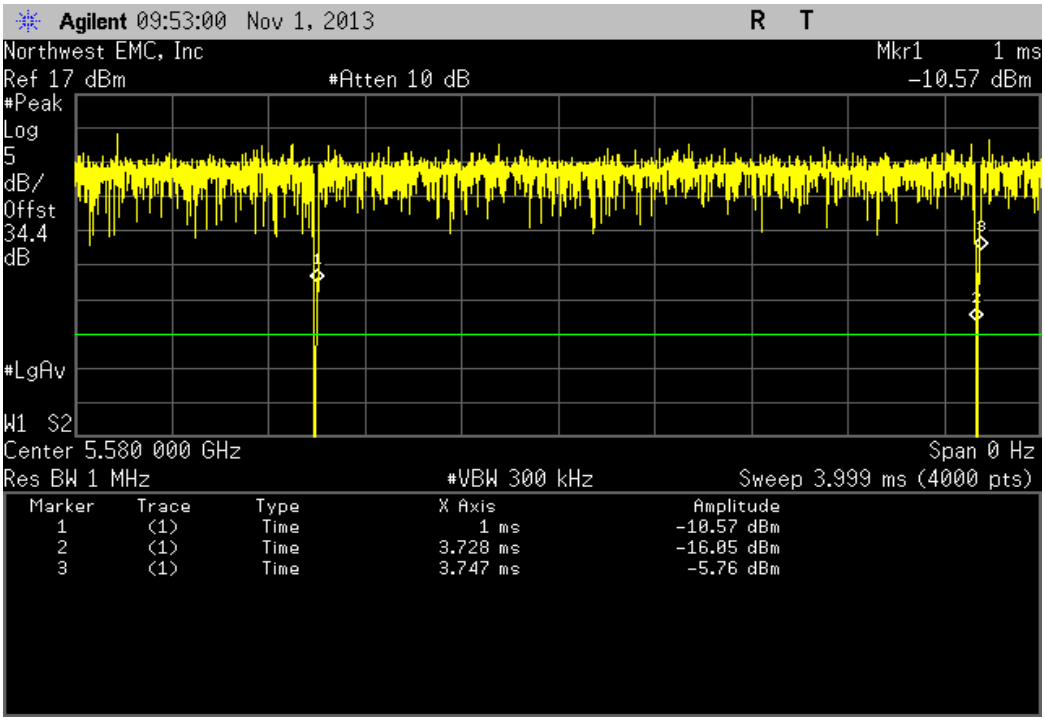


802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	7	N/A	N/A	N/A

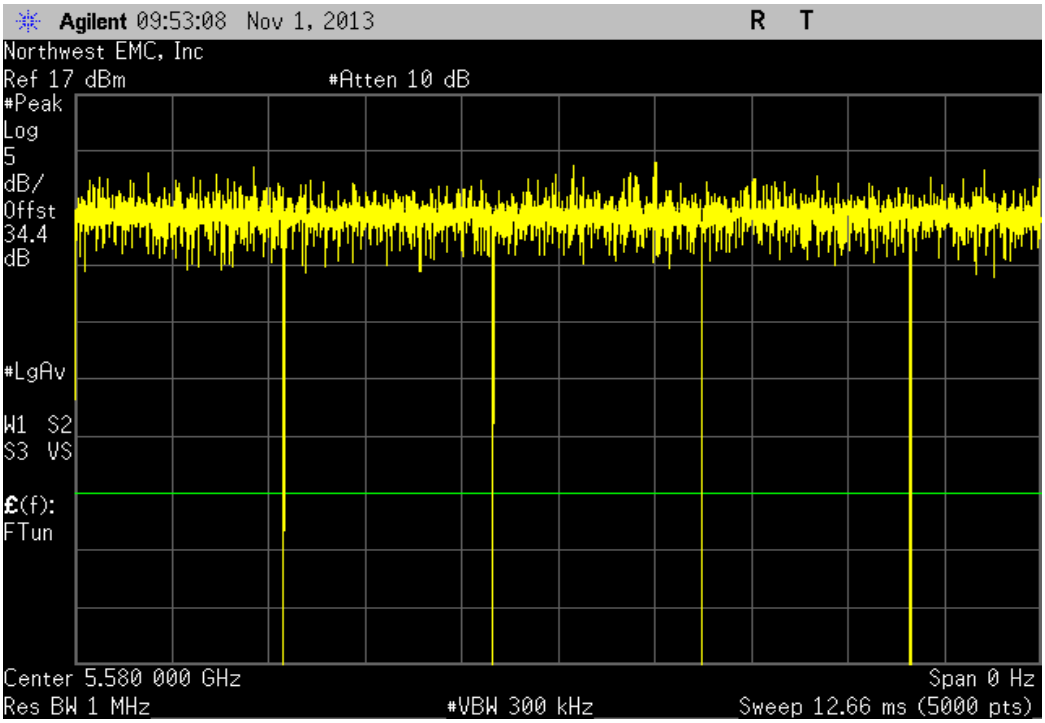


Duty Cycle

802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.728 mS	2.747 mS	1	99.3	N/A	N/A

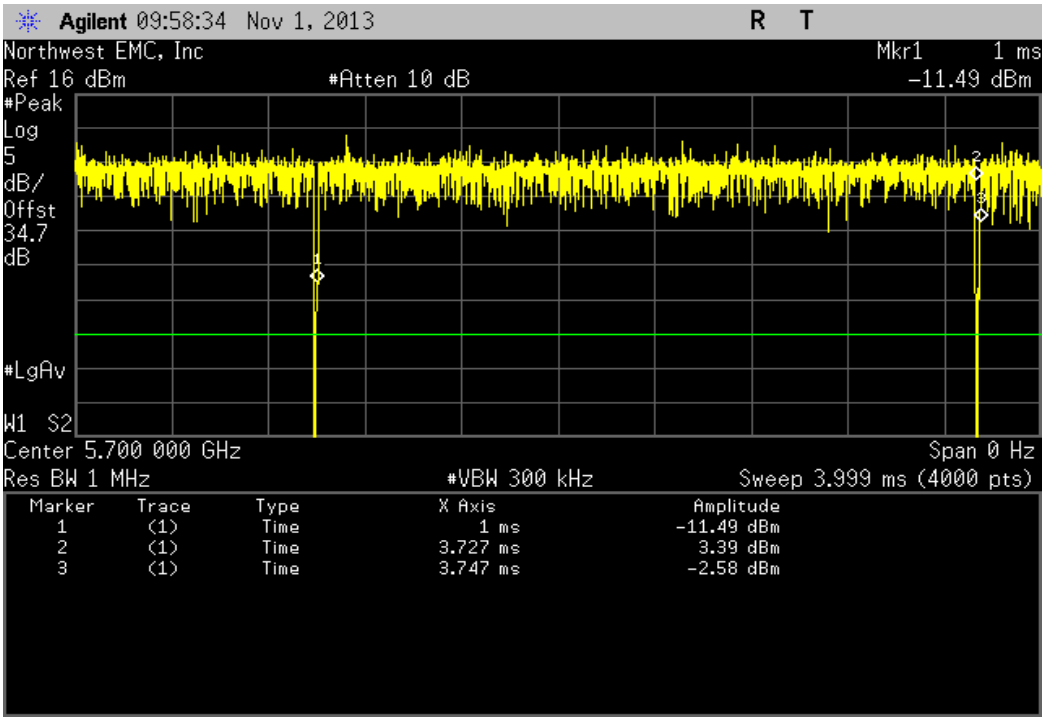


802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

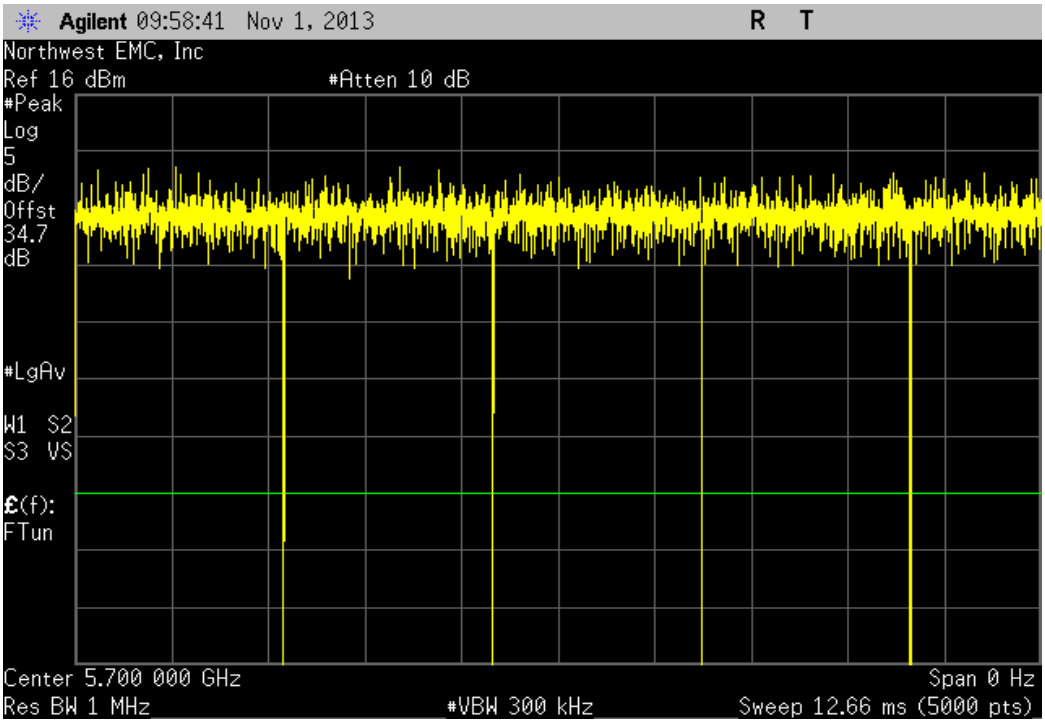


Duty Cycle

802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.727 mS	2.747 mS	1	99.3	N/A	N/A

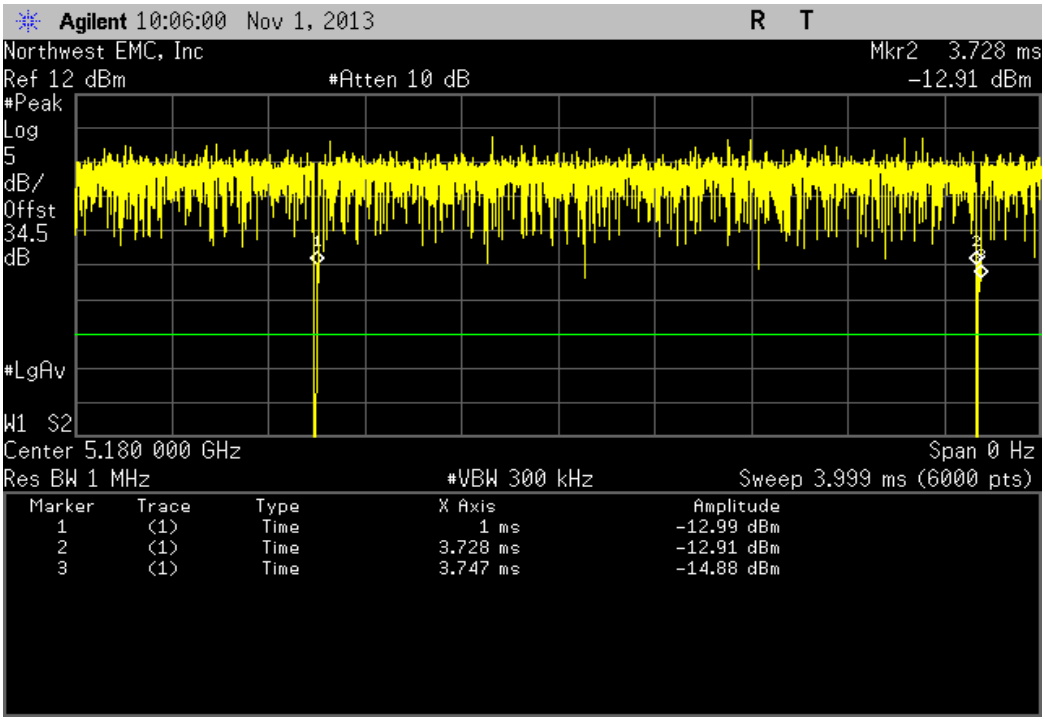


802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

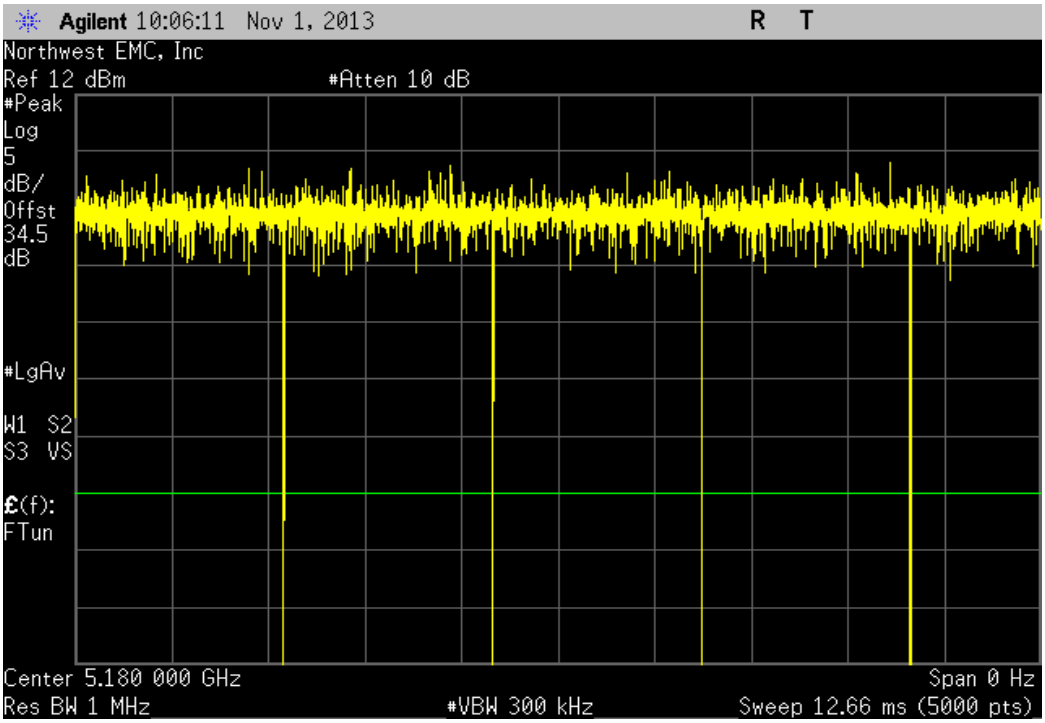


Duty Cycle

802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.728 mS	2.747 mS	1	99.3	N/A	N/A

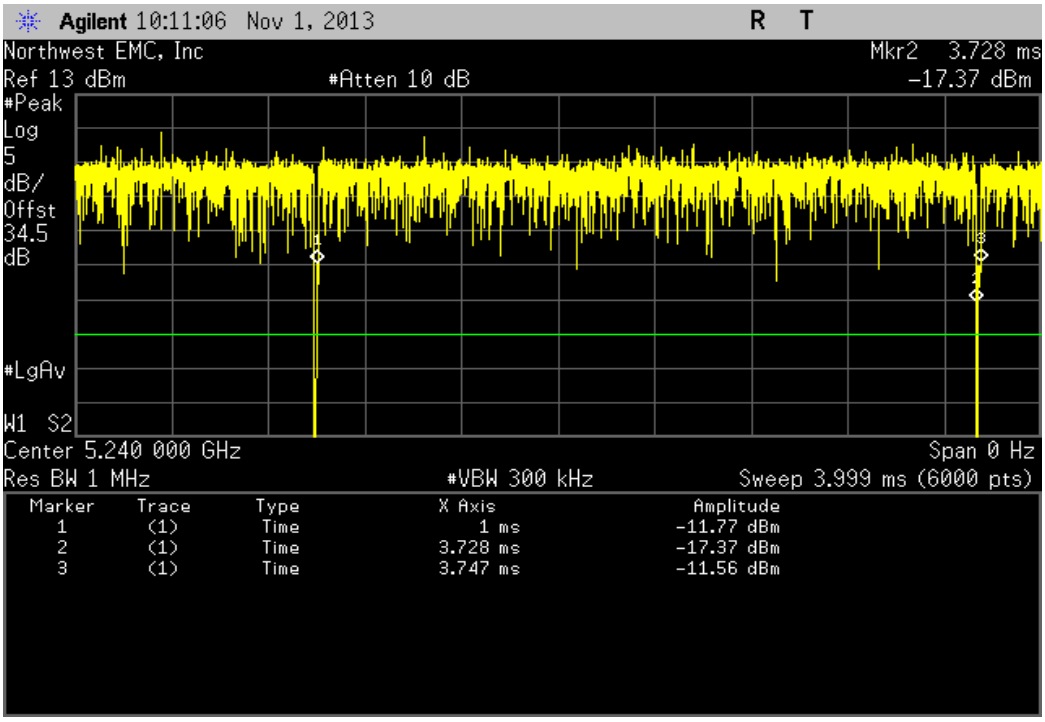


802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

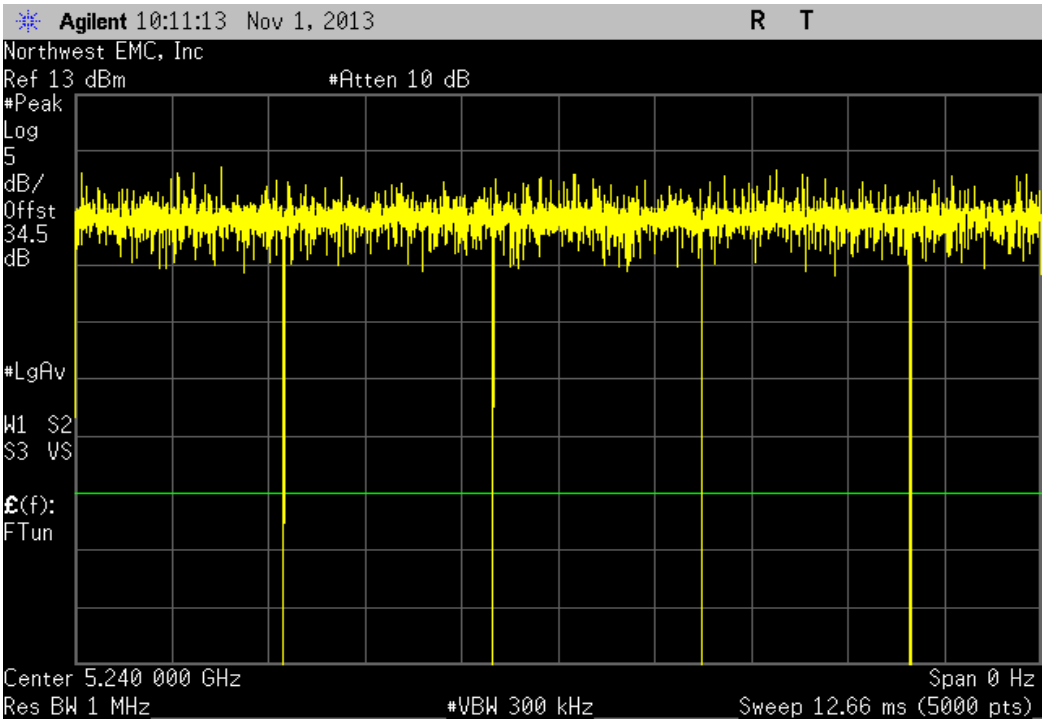


Duty Cycle

802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.728 mS	2.747 mS	1	99.3	N/A	N/A

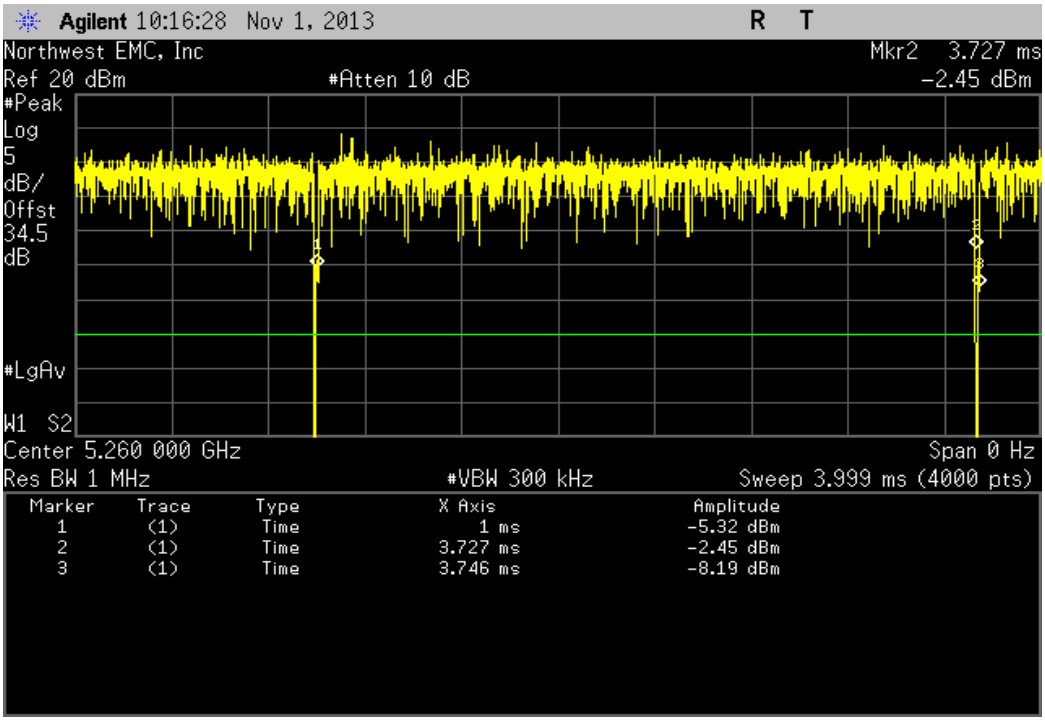


802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

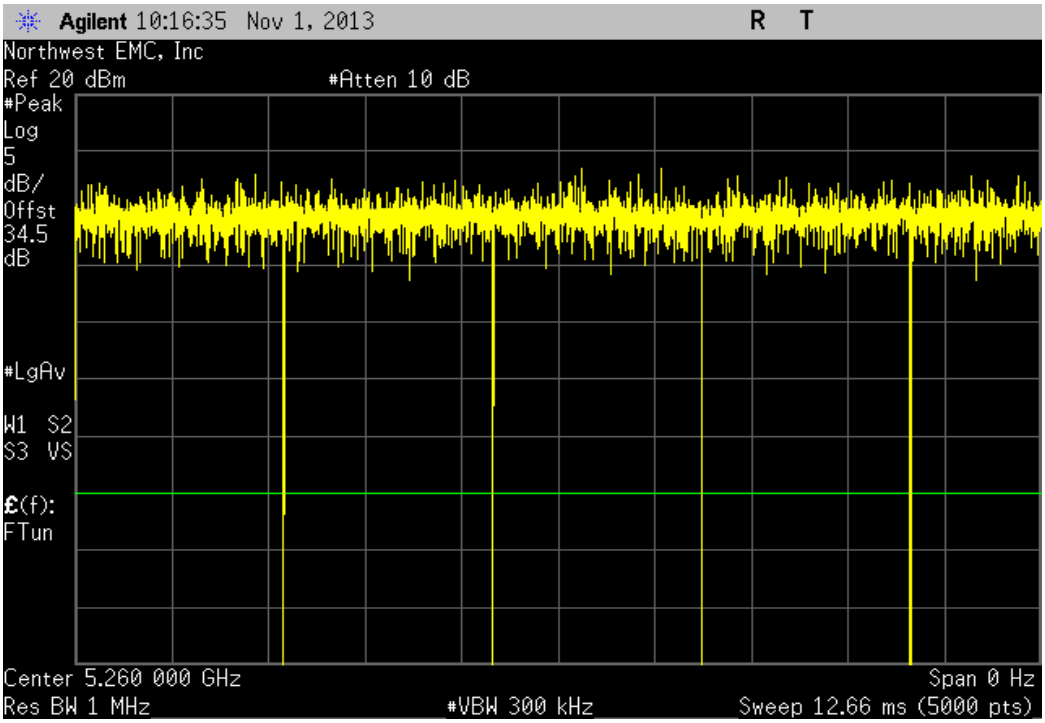


Duty Cycle

802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.727 mS	2.746 mS	1	99.3	N/A	N/A

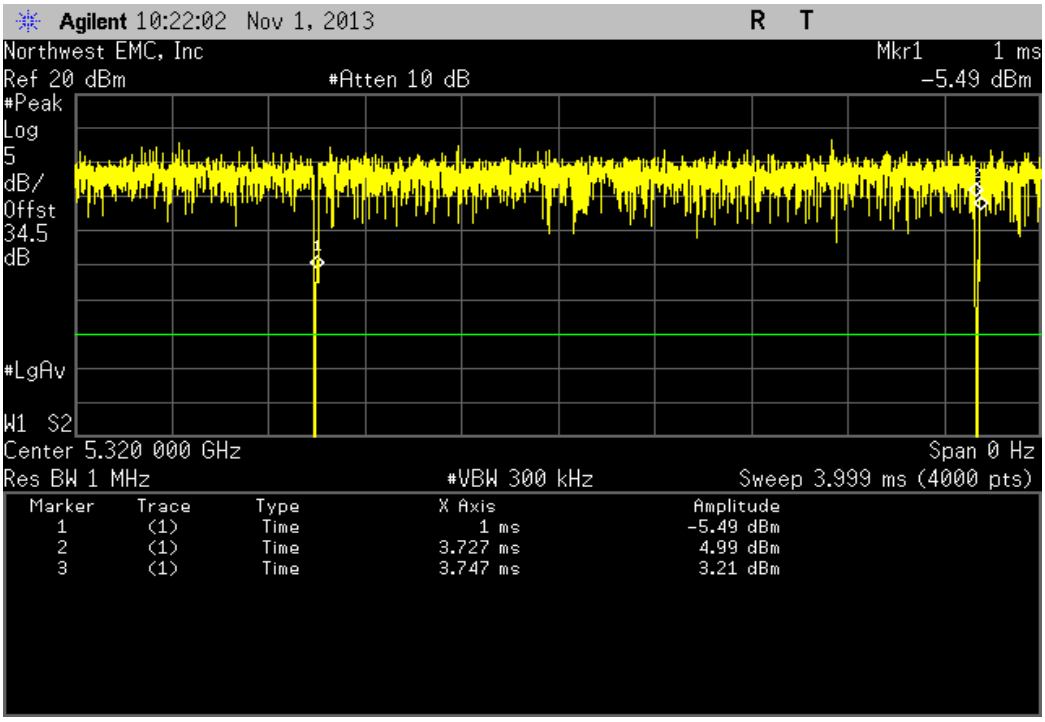


802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

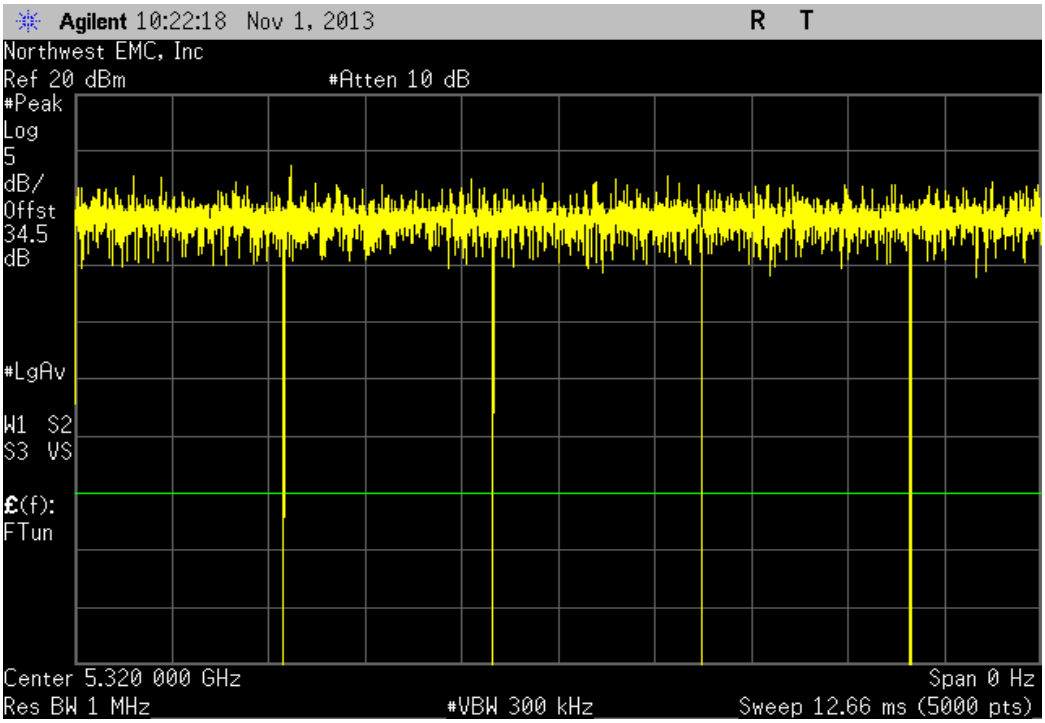


Duty Cycle

802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.727 mS	2.747 mS	1	99.3	N/A	N/A

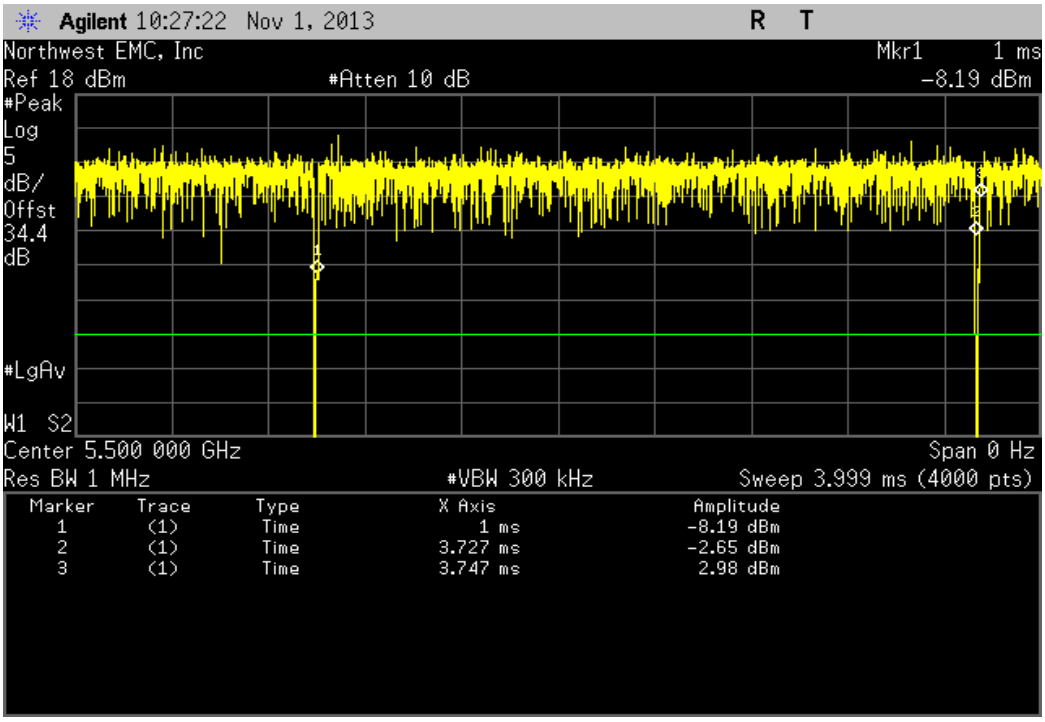


802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

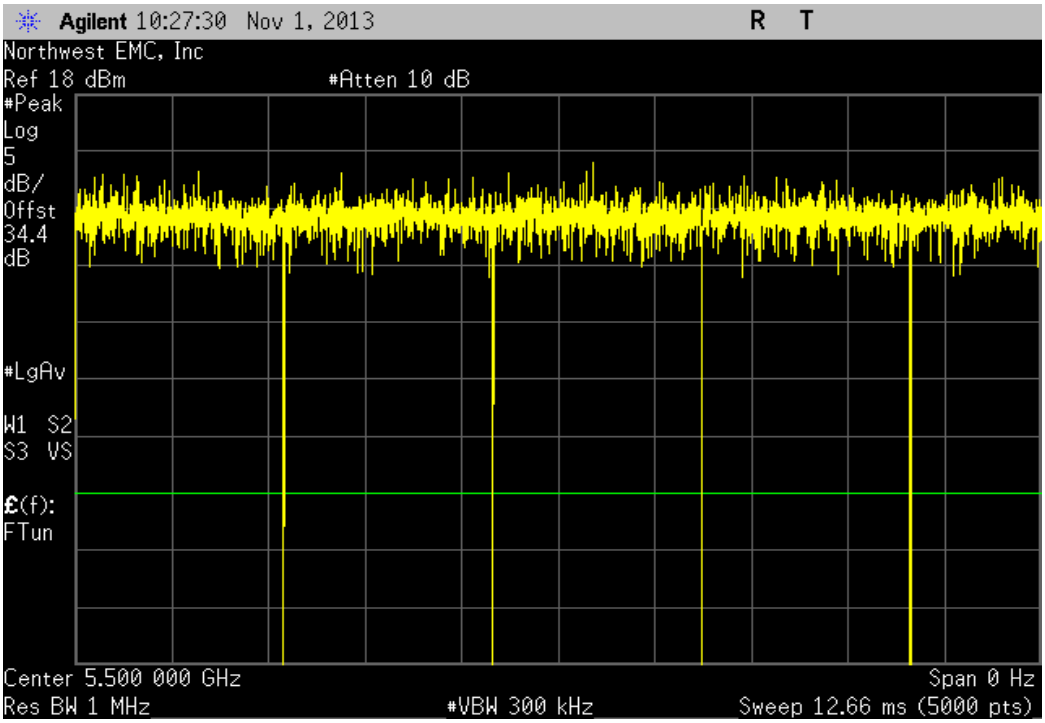


Duty Cycle

802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.727 mS	2.747 mS	1	99.3	N/A	N/A

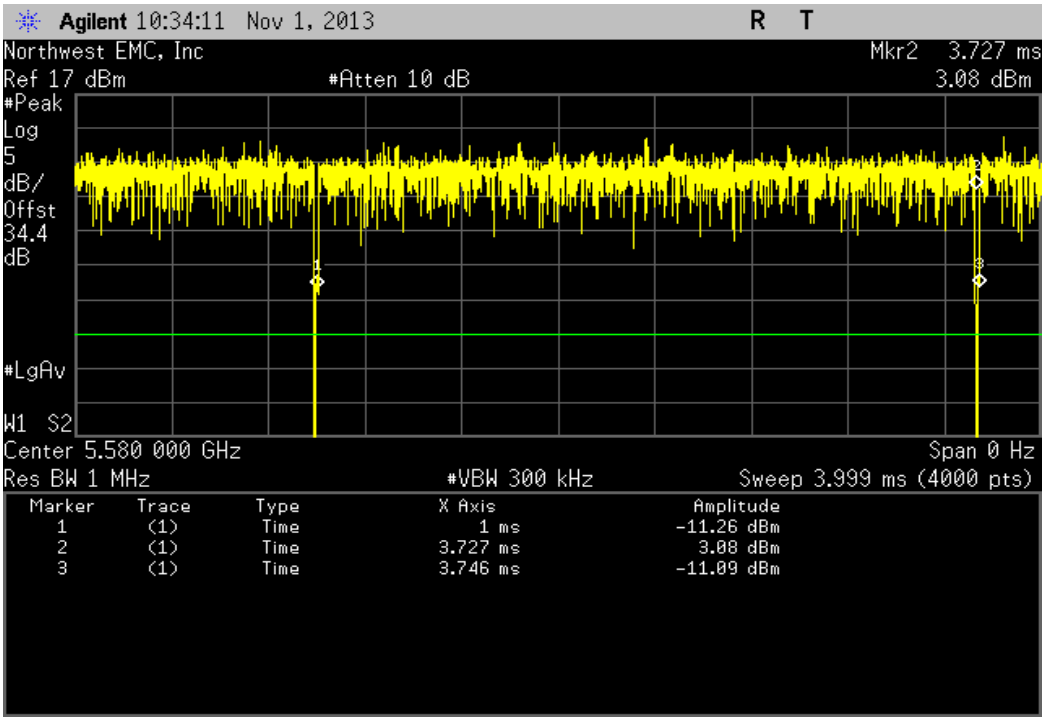


802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

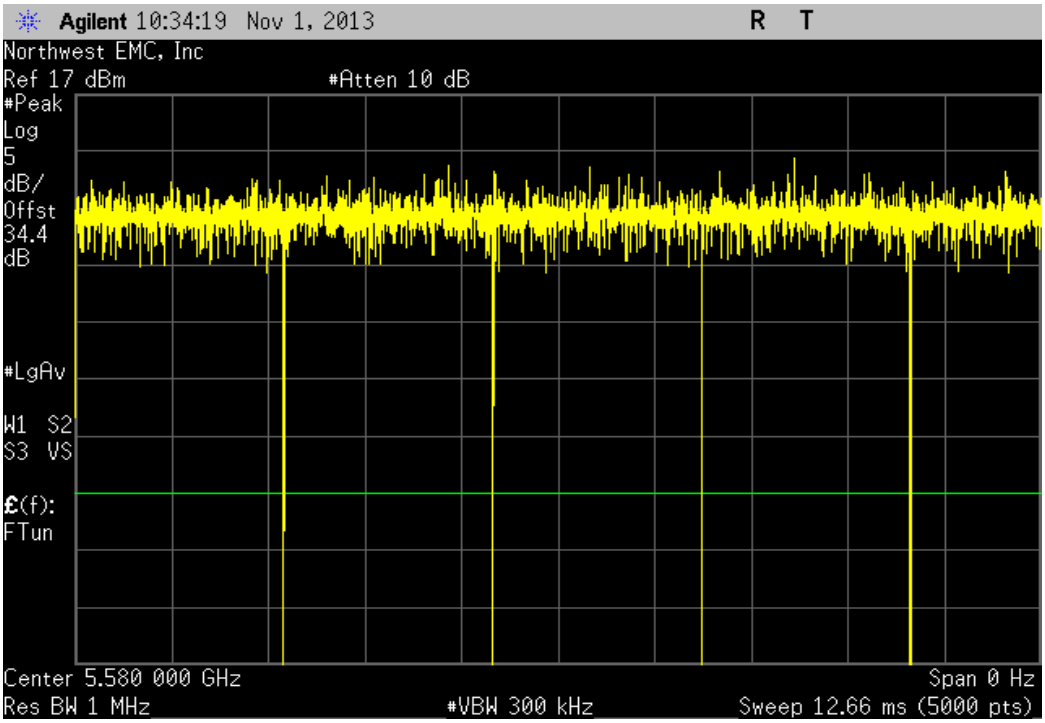


Duty Cycle

802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.727 mS	2.746 mS	1	99.3	N/A	N/A

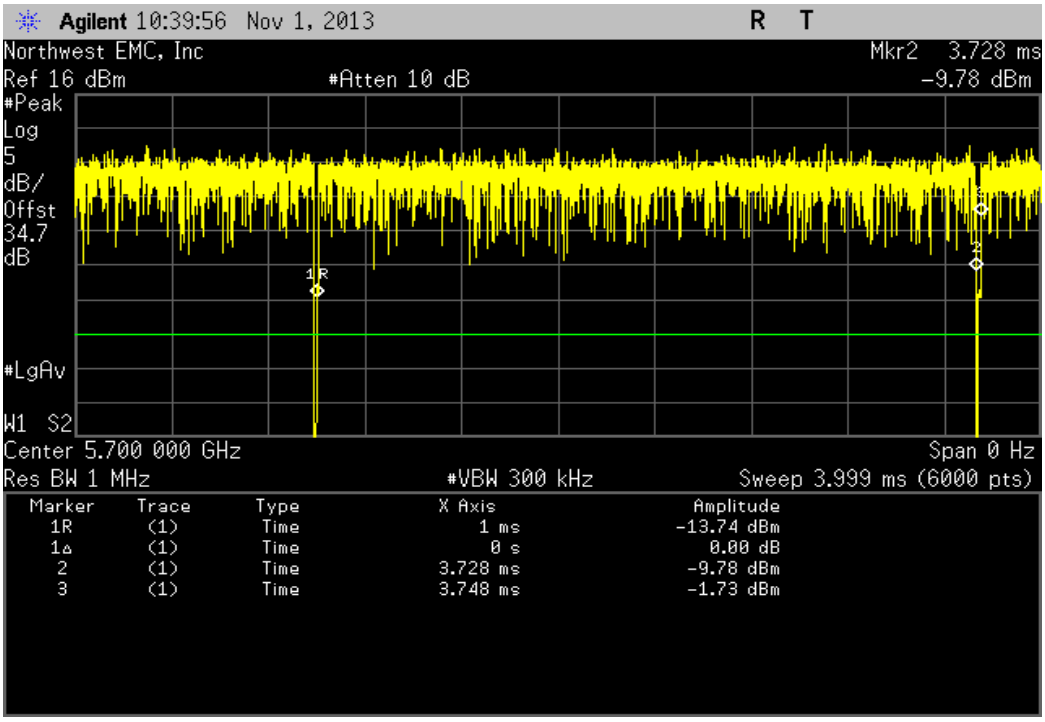


802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

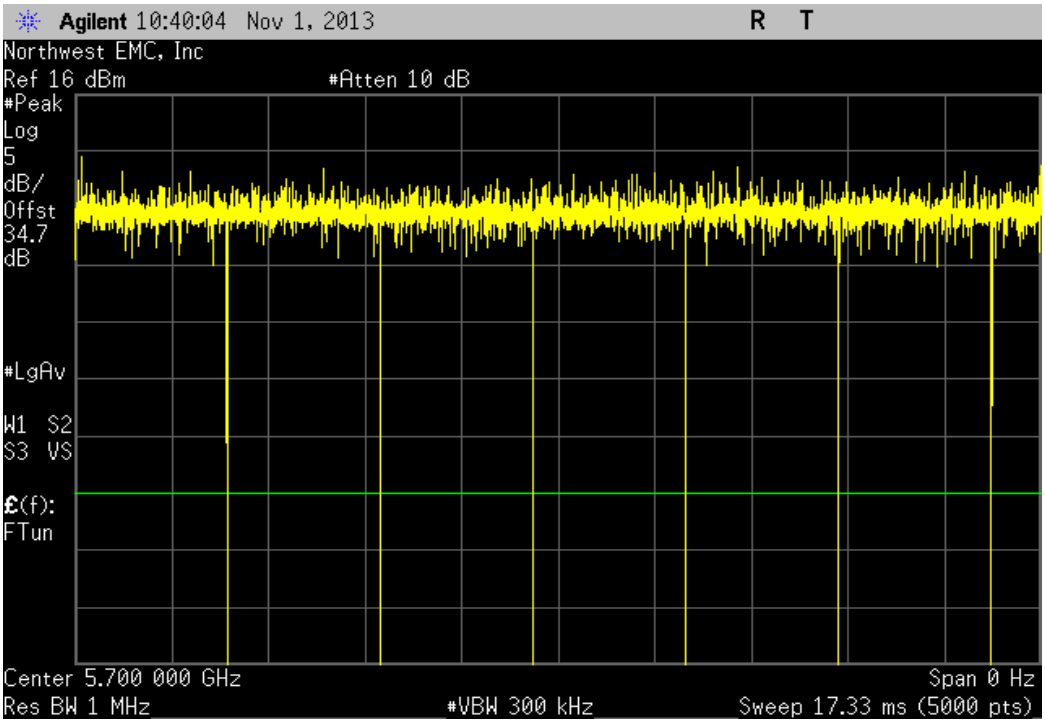


Duty Cycle

802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	3.728 mS	3.748 mS	1	99.5	N/A	N/A

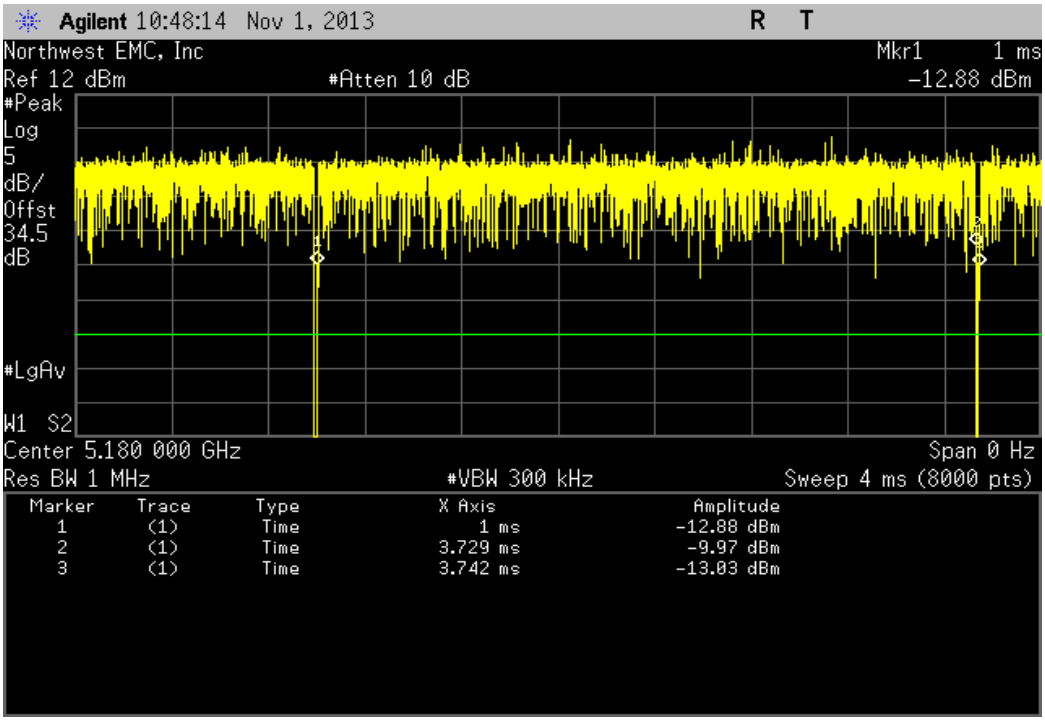


802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	7	N/A	N/A	N/A

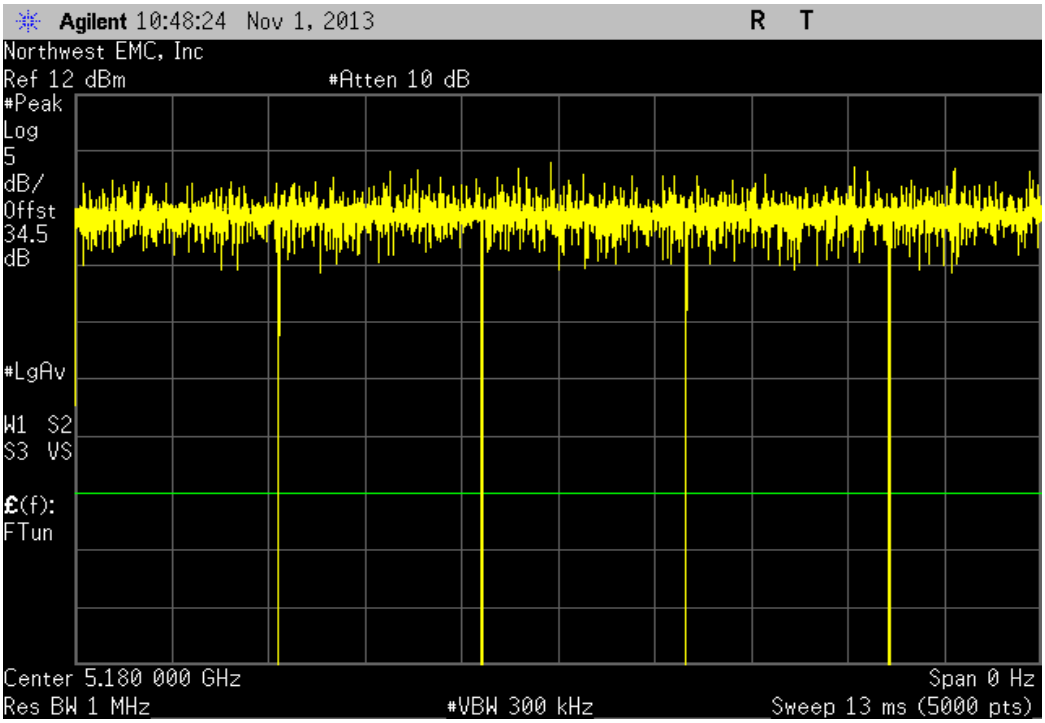


Duty Cycle

802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 36, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.729 mS	2.742 mS	1	99.5	N/A	N/A

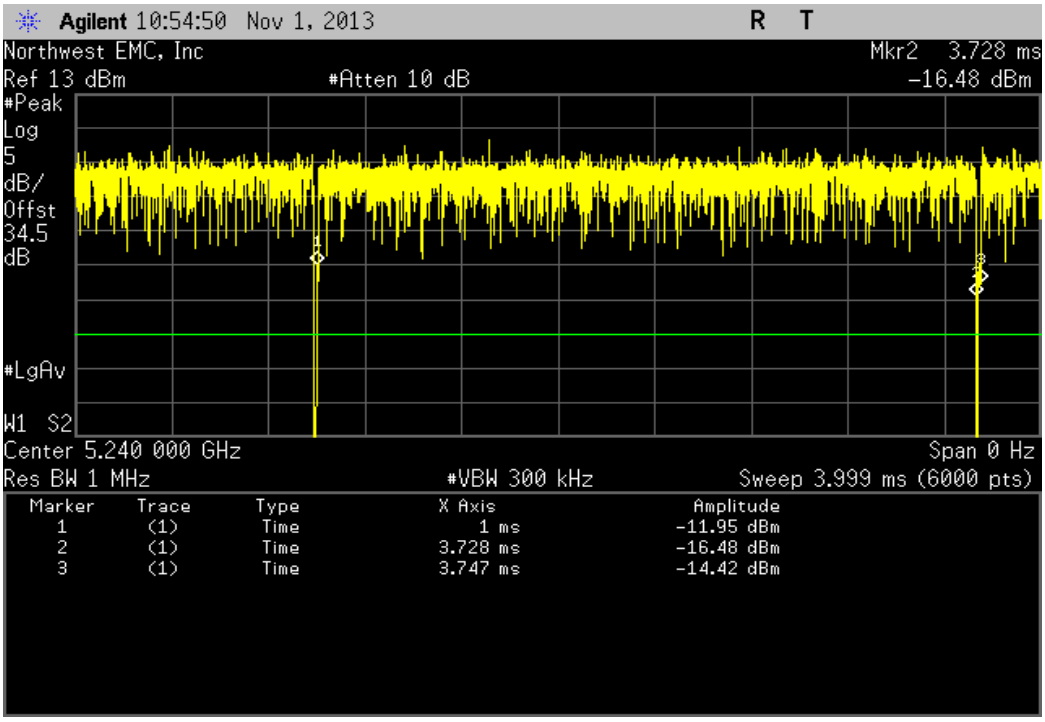


802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 36, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

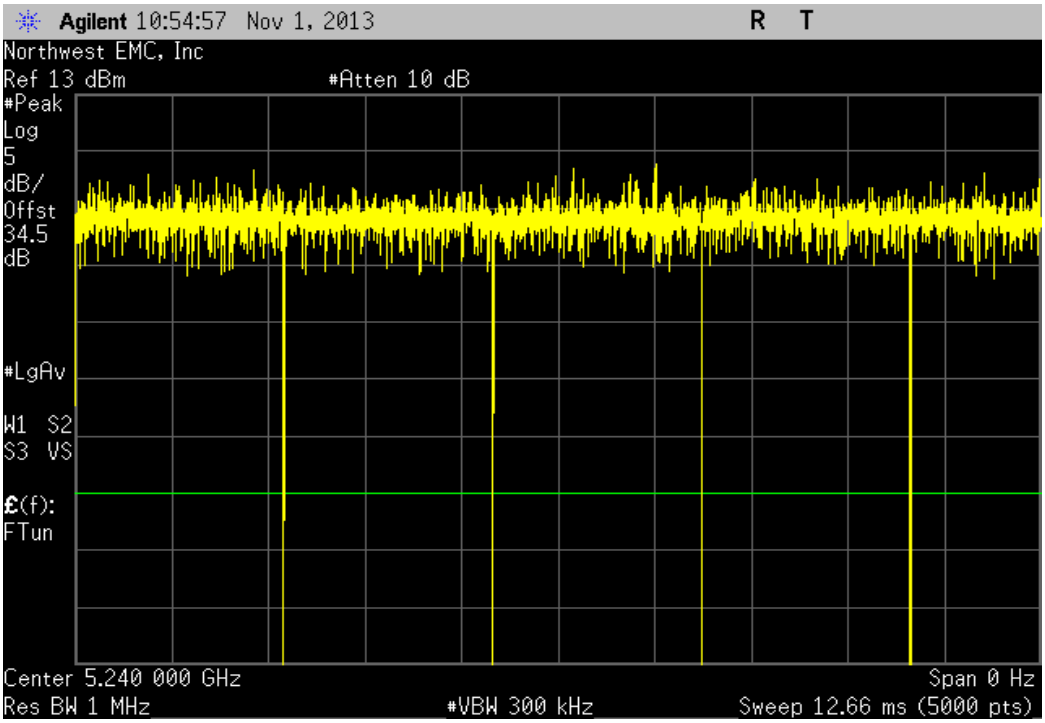


Duty Cycle

802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 48, High Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.728 mS	2.747 mS	1	99.3	N/A	N/A

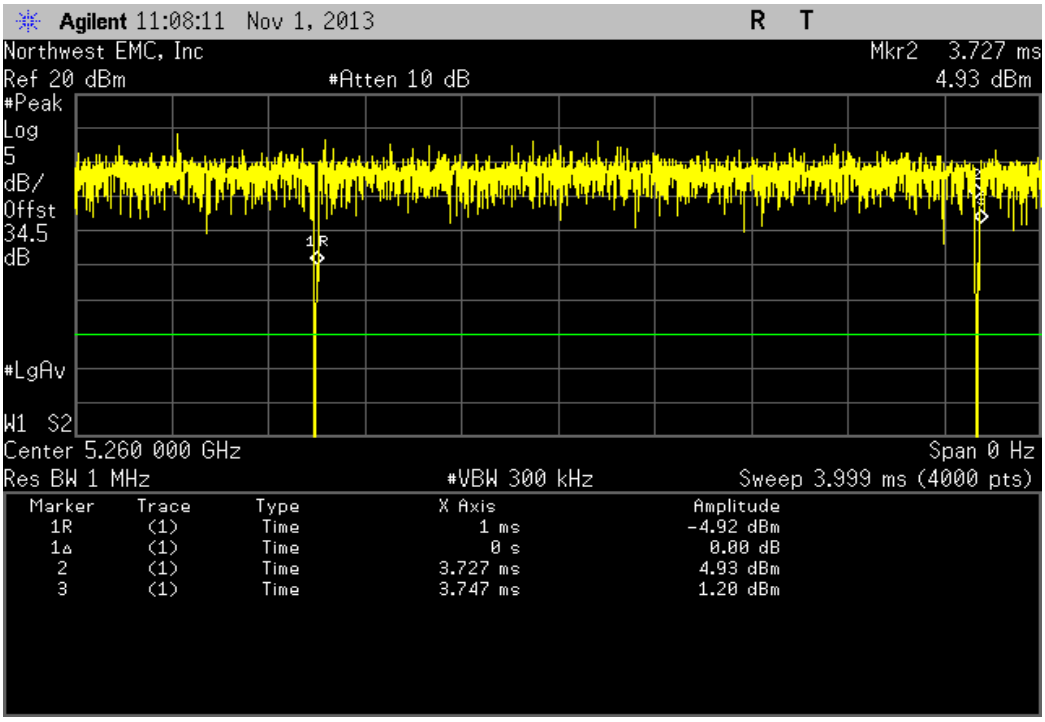


802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 48, High Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

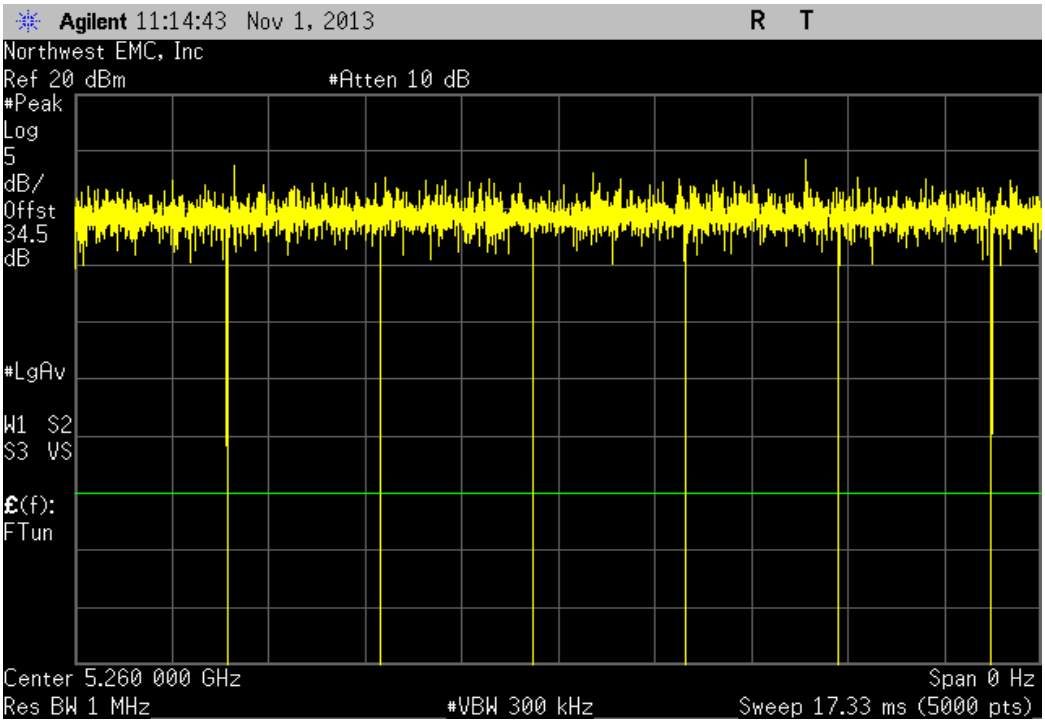


Duty Cycle

802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 52, Low Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	3.727 mS	3.747 mS	1	99.5	N/A	N/A

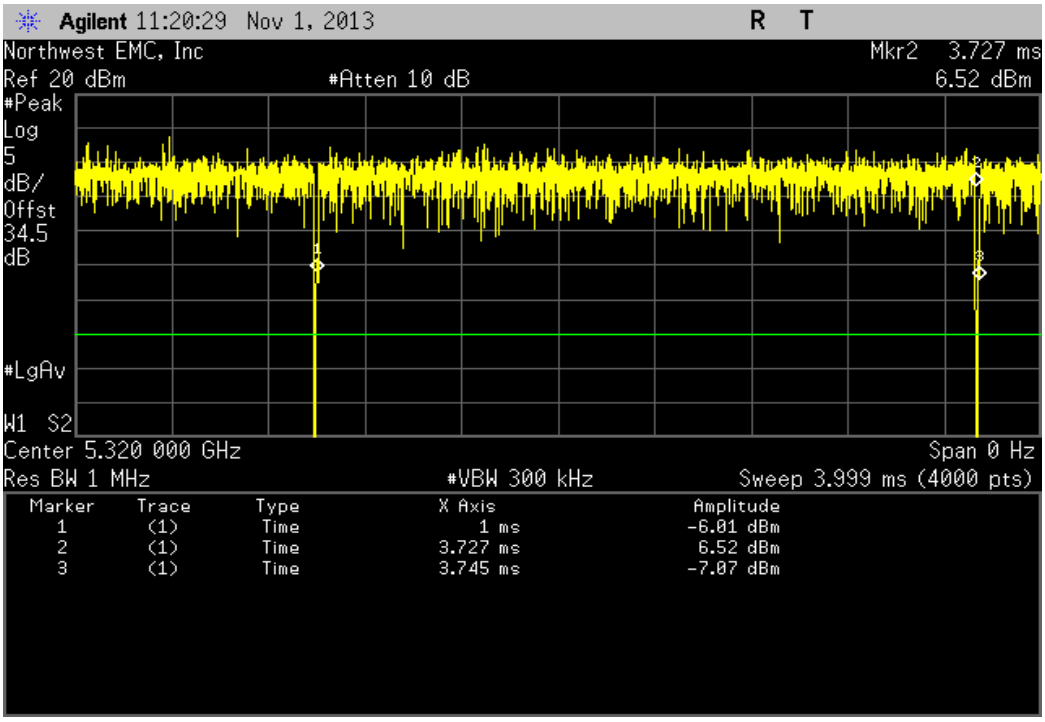


802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 52, Low Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	7	N/A	N/A	N/A

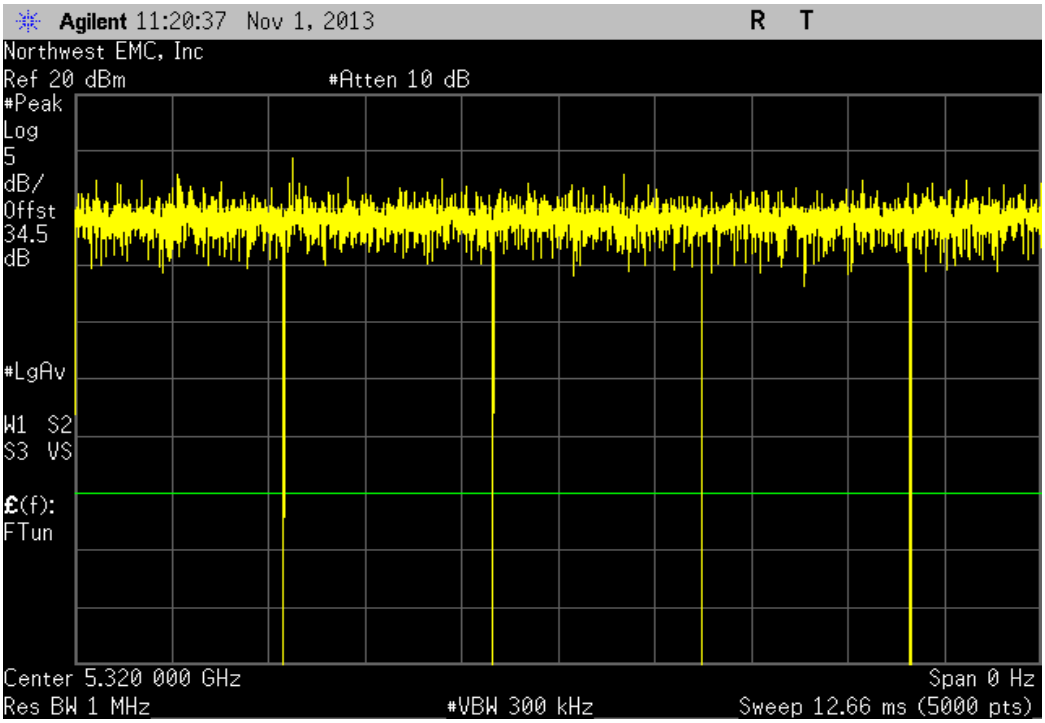


Duty Cycle

802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 64, High Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.727 mS	2.745 mS	1	99.3	N/A	N/A

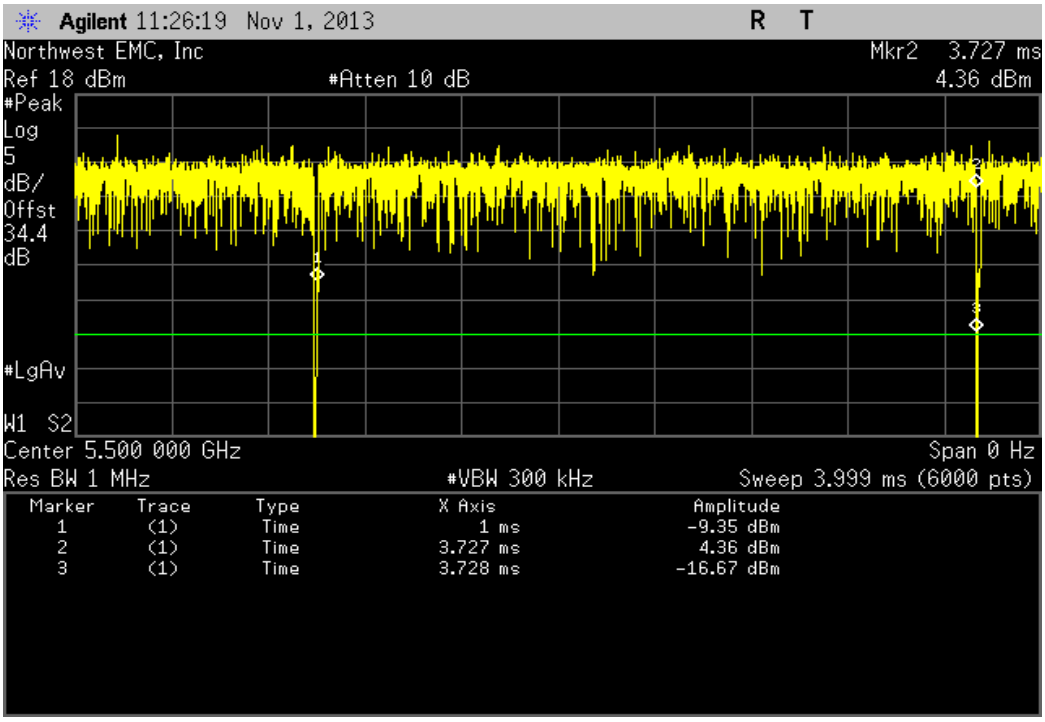


802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 64, High Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

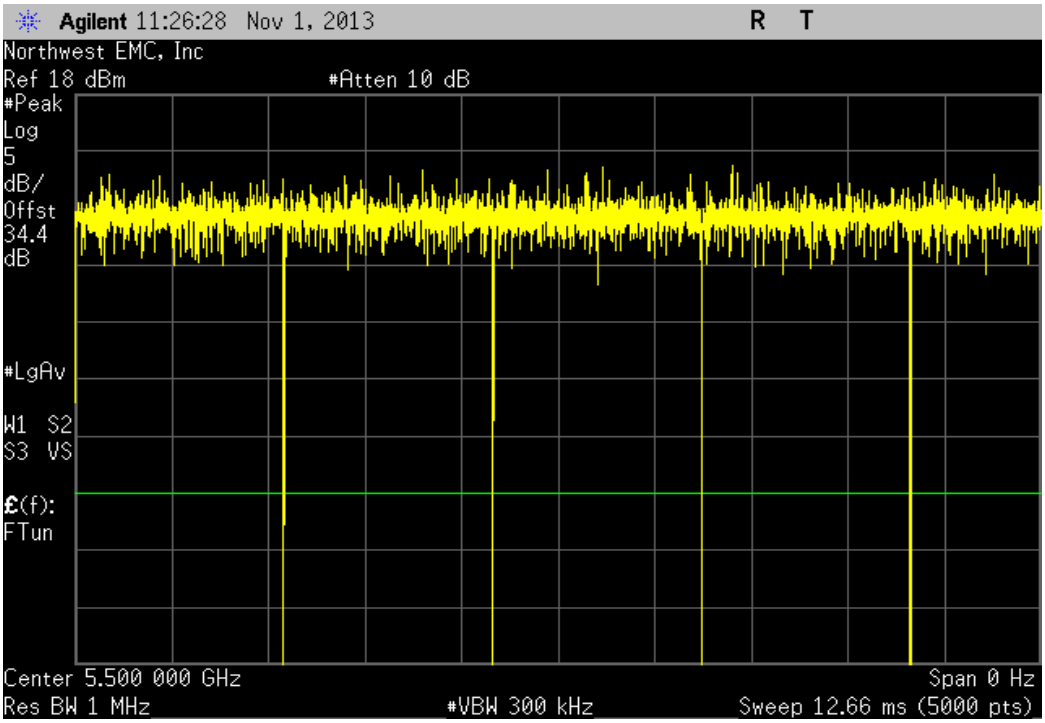


Duty Cycle

802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 100, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.727 mS	2.728 mS	1	100	N/A	N/A

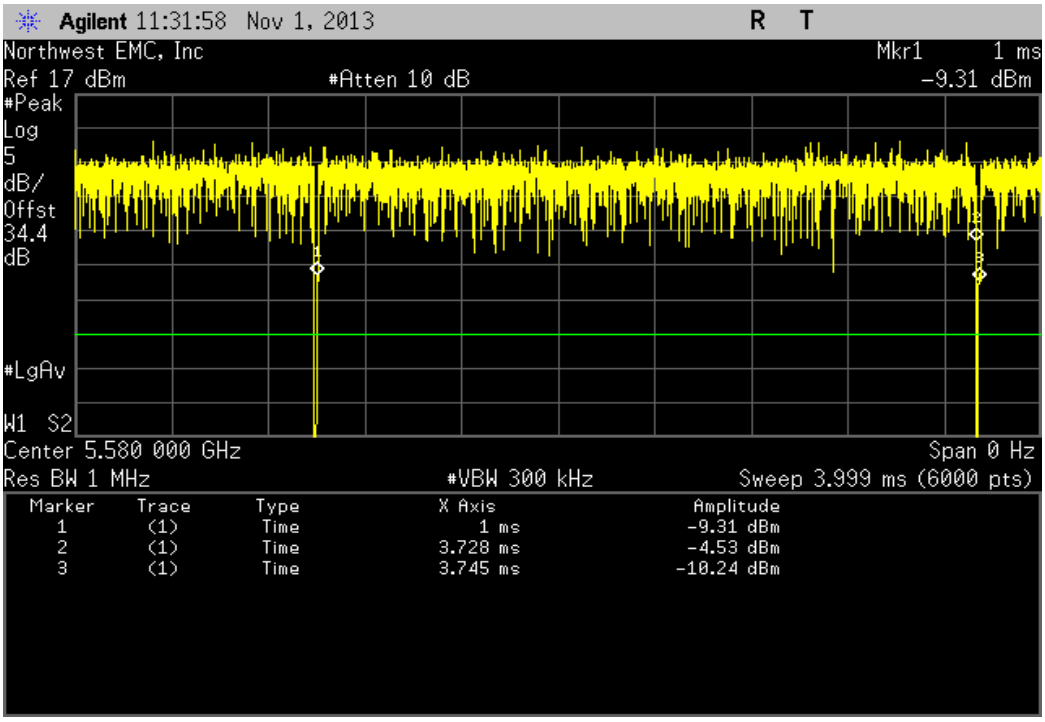


802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 100, Low Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

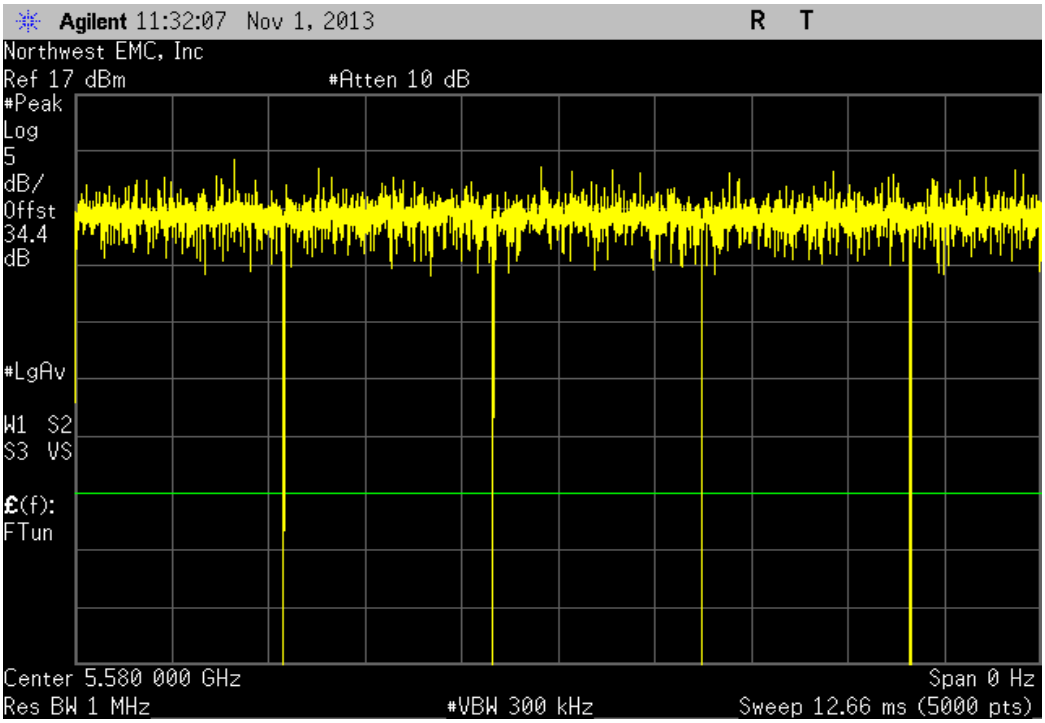


Duty Cycle

802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 116, Mid Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.728 mS	2.745 mS	1	99.4	N/A	N/A



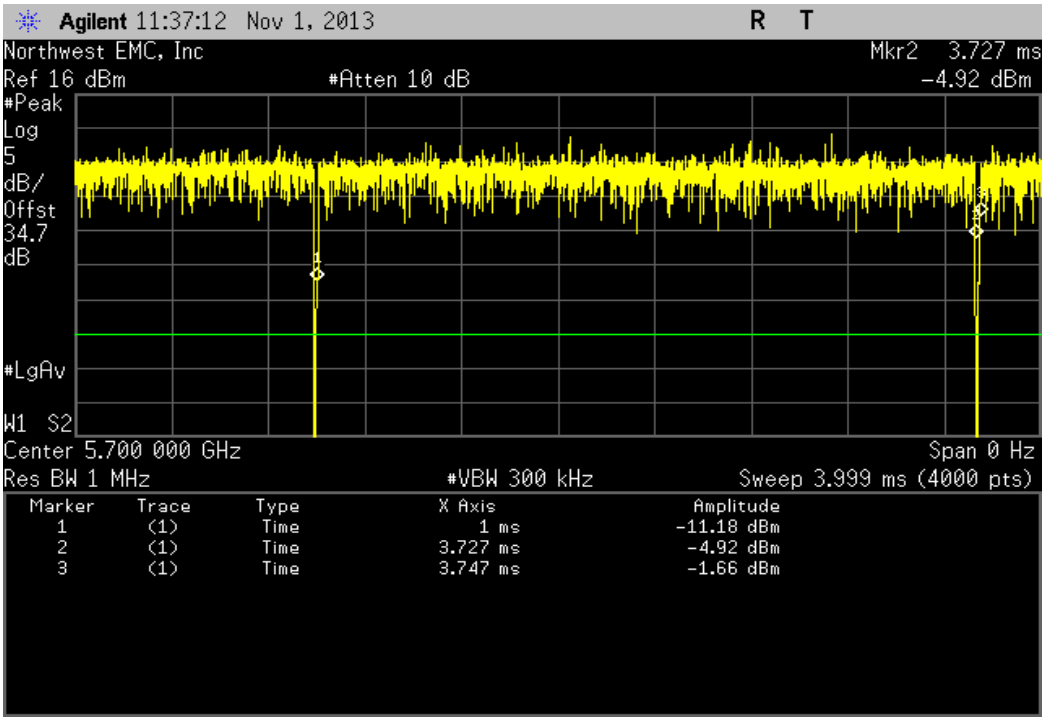
802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 116, Mid Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



Duty Cycle

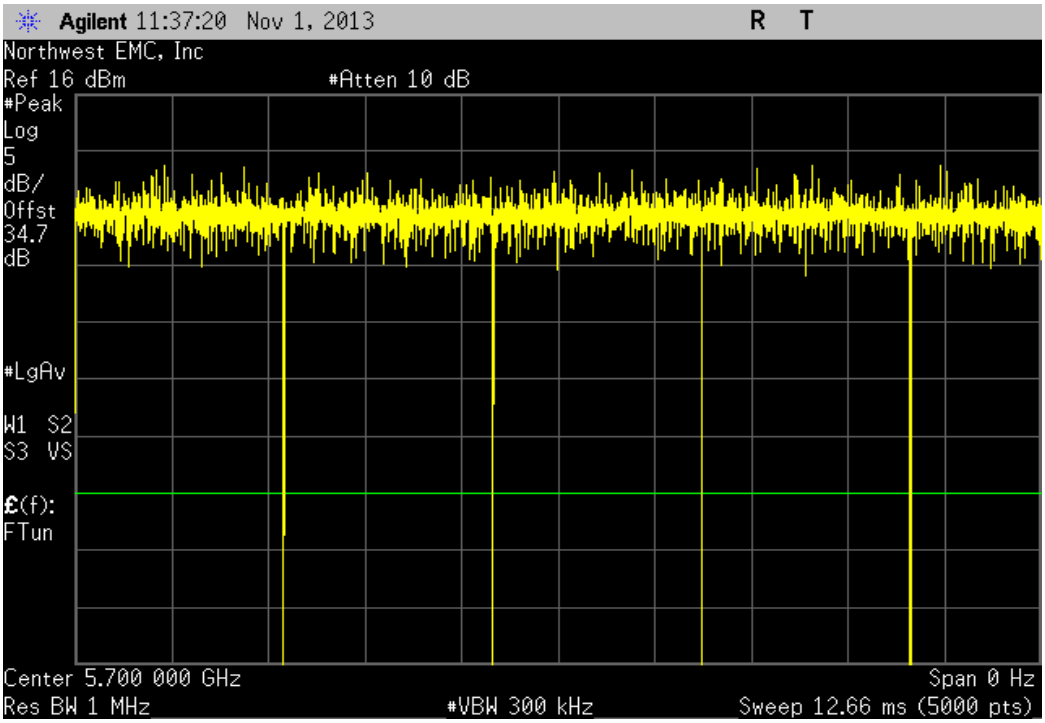
802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 140, High Channel

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.727 mS	2.747 mS	1	99.3	N/A	N/A



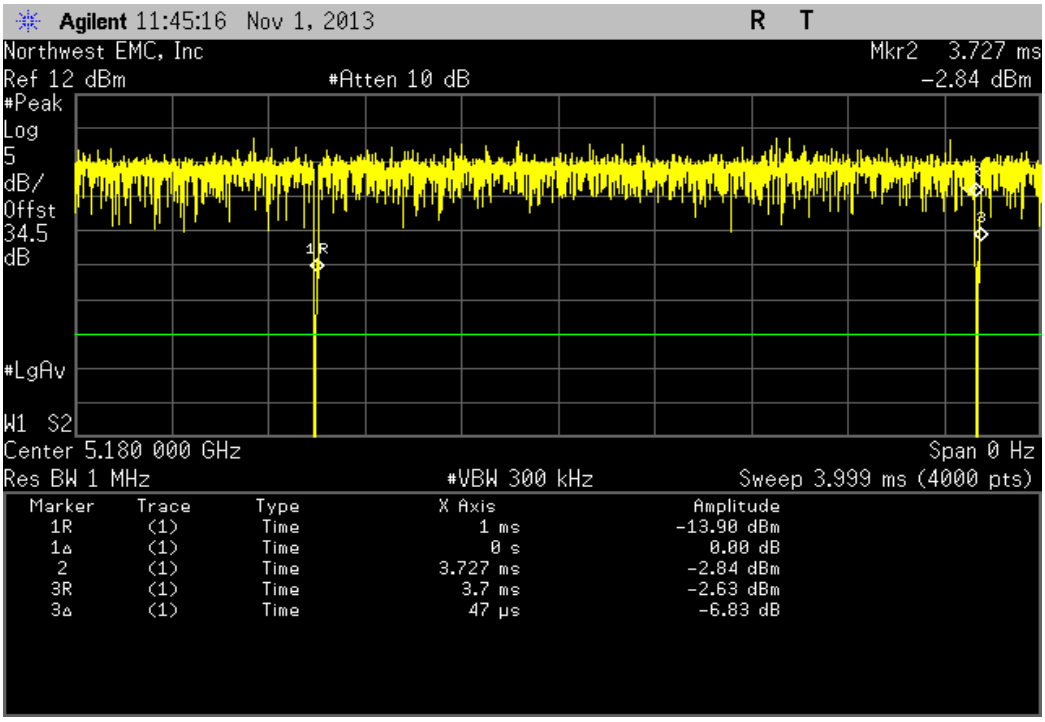
802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 140, High Channel

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

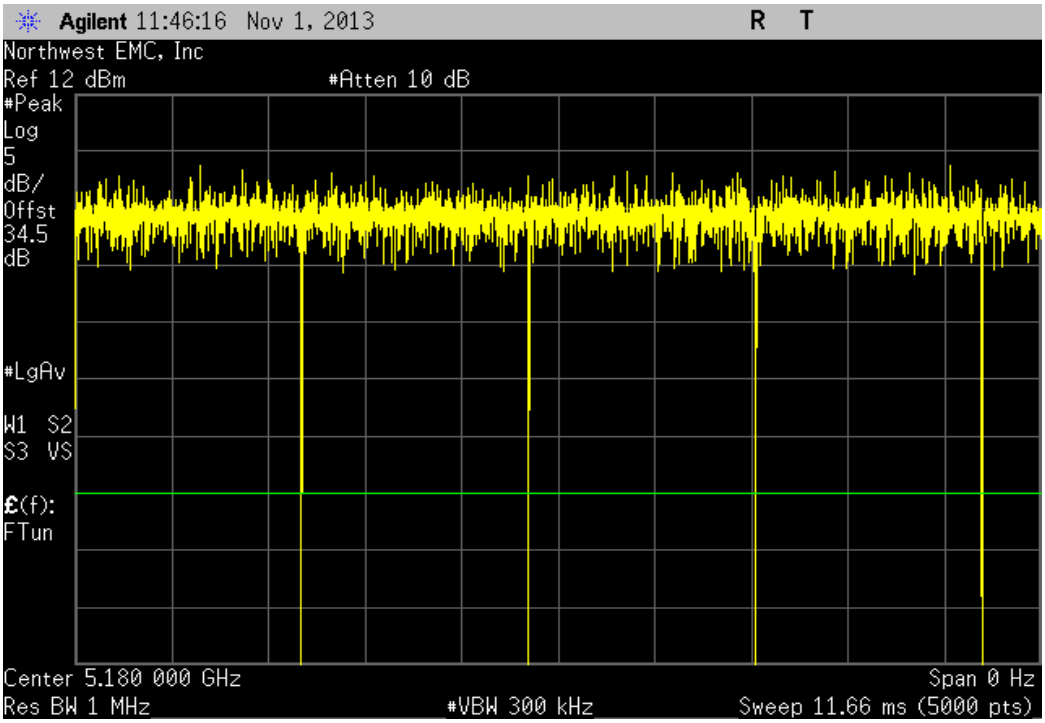


Duty Cycle

802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 36, Low Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	3.727 mS	3.748 mS	1	99.4	N/A	N/A

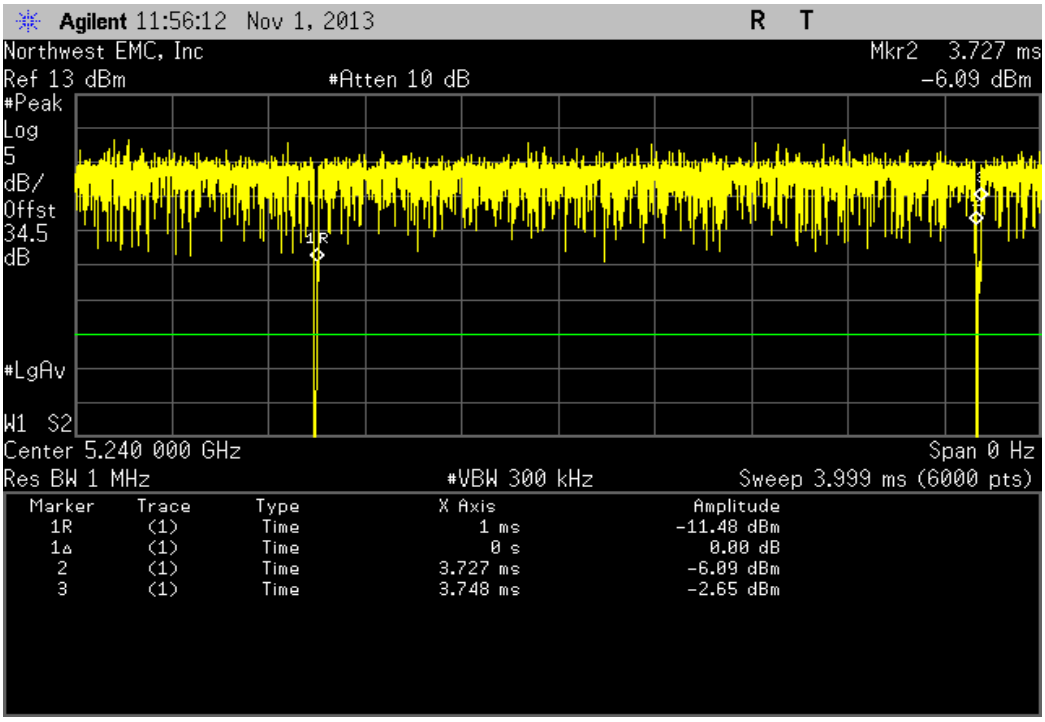


802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 36, Low Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

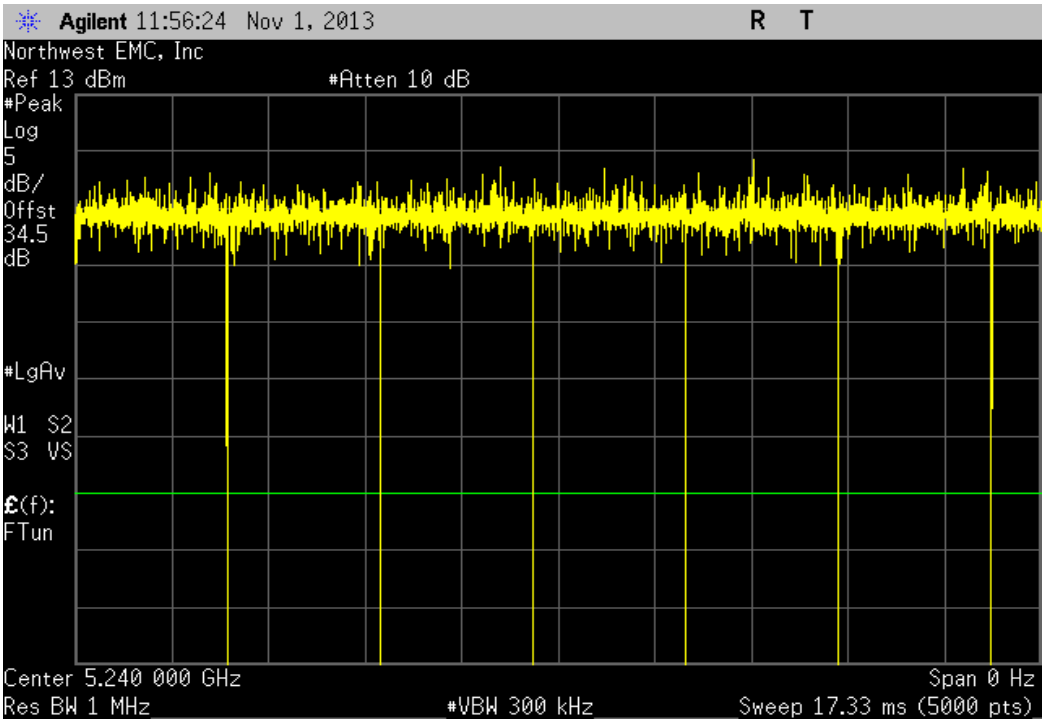


Duty Cycle

802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 48, High Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	3.727 mS	3.748 mS	1	99.4	N/A	N/A

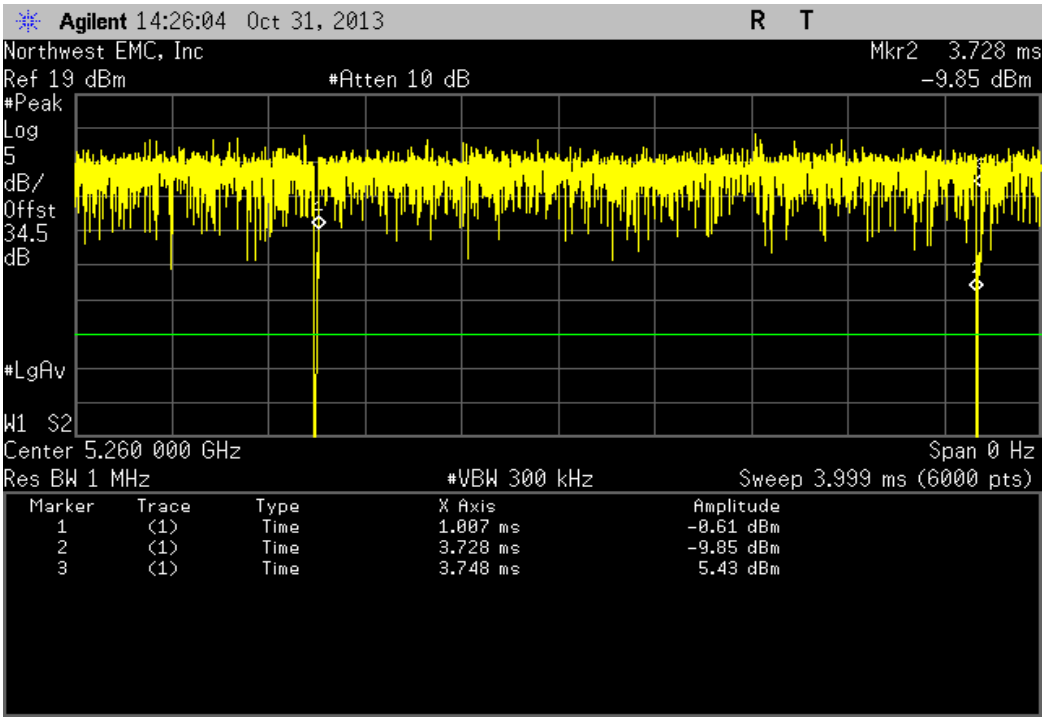


802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 48, High Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	7	N/A	N/A	N/A

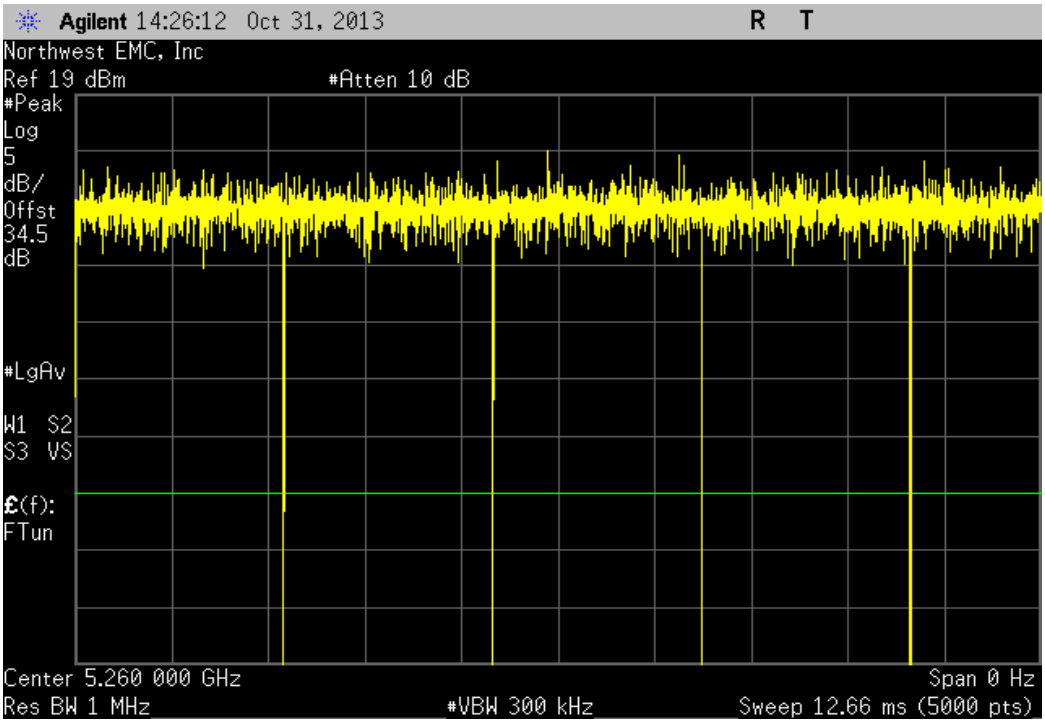


Duty Cycle

802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 52, Low Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.721 mS	2.741 mS	1	99.3	N/A	N/A

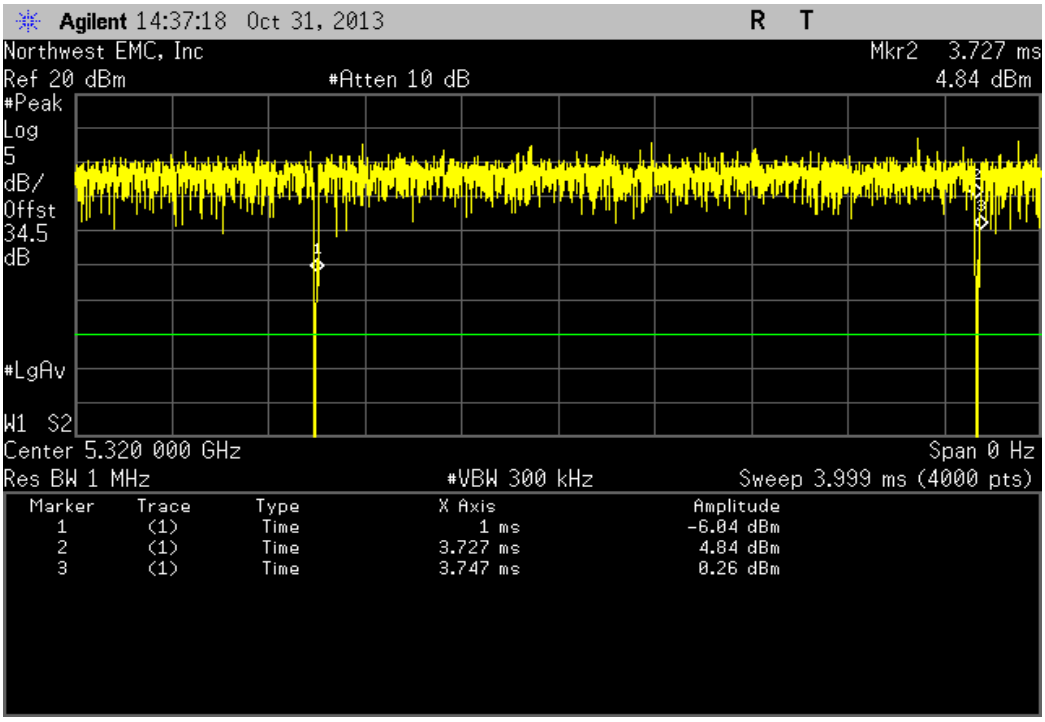


802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 52, Low Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

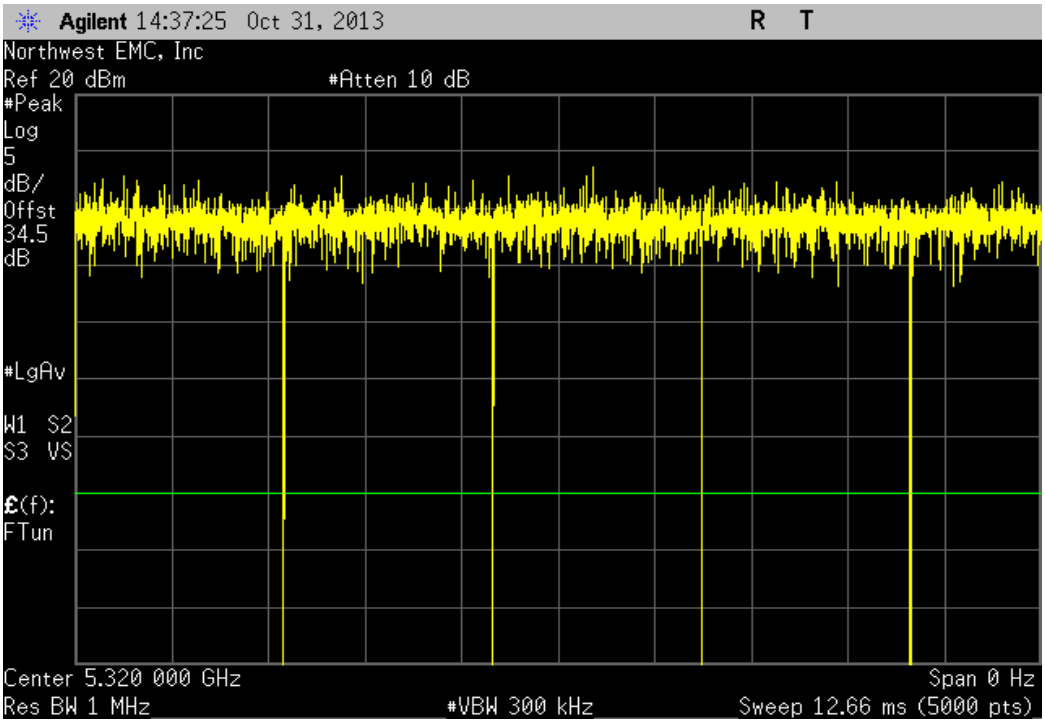


Duty Cycle

802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 64, High Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.727 mS	2.747 mS	1	99.3	N/A	N/A

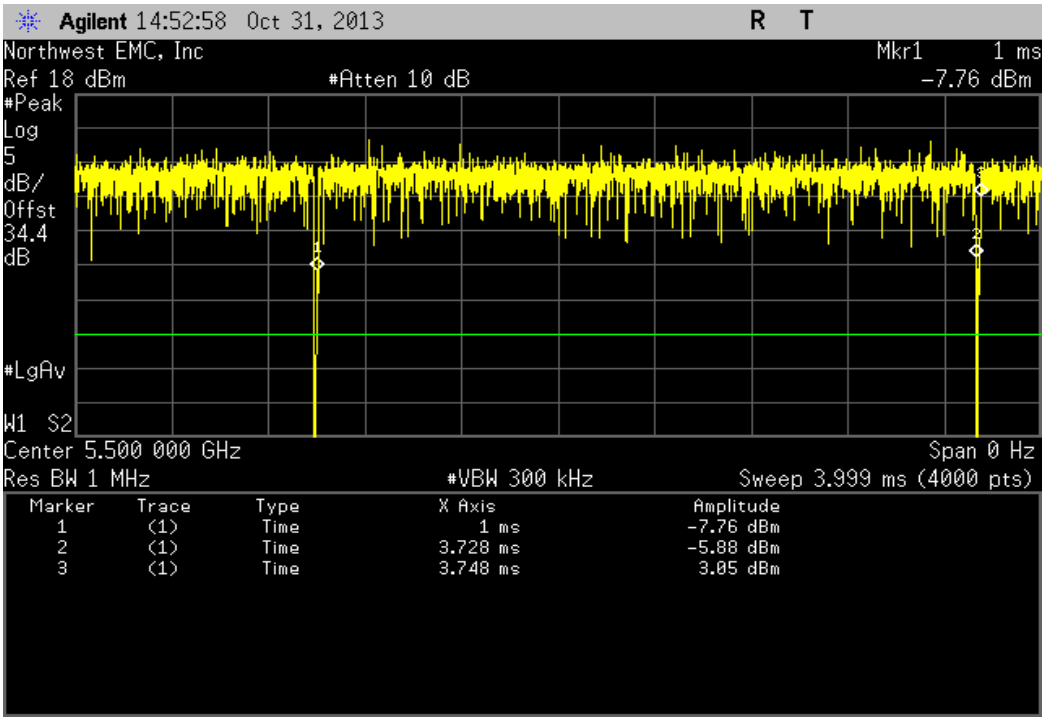


802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 64, High Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

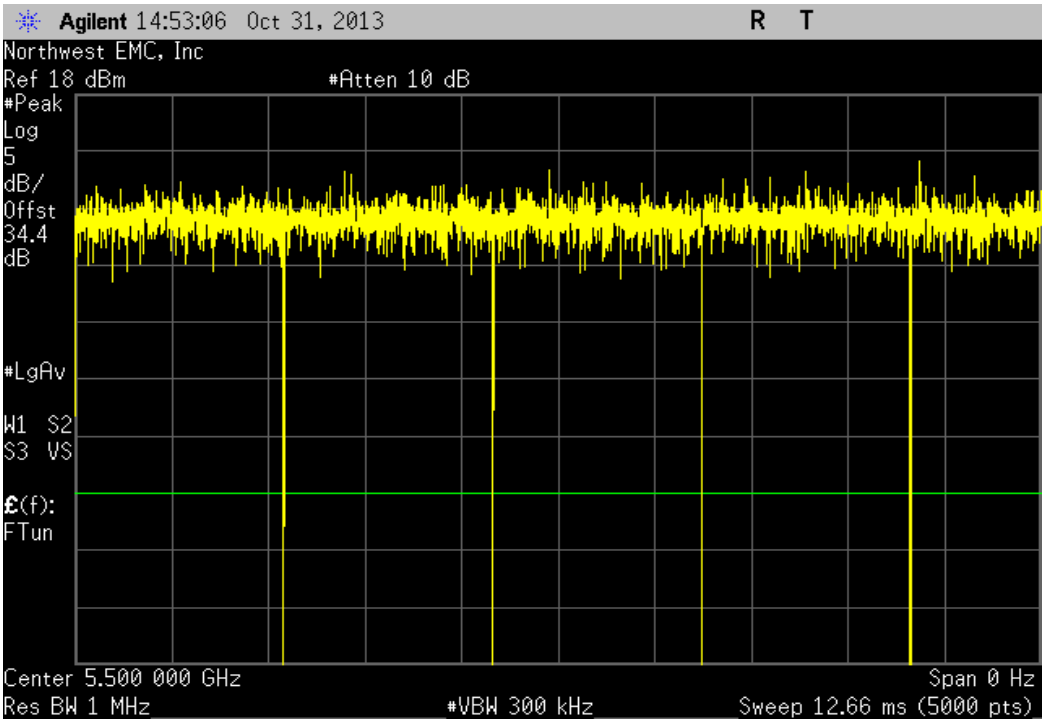


Duty Cycle

802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 100, Low Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.728 mS	2.748 mS	1	99.3	N/A	N/A

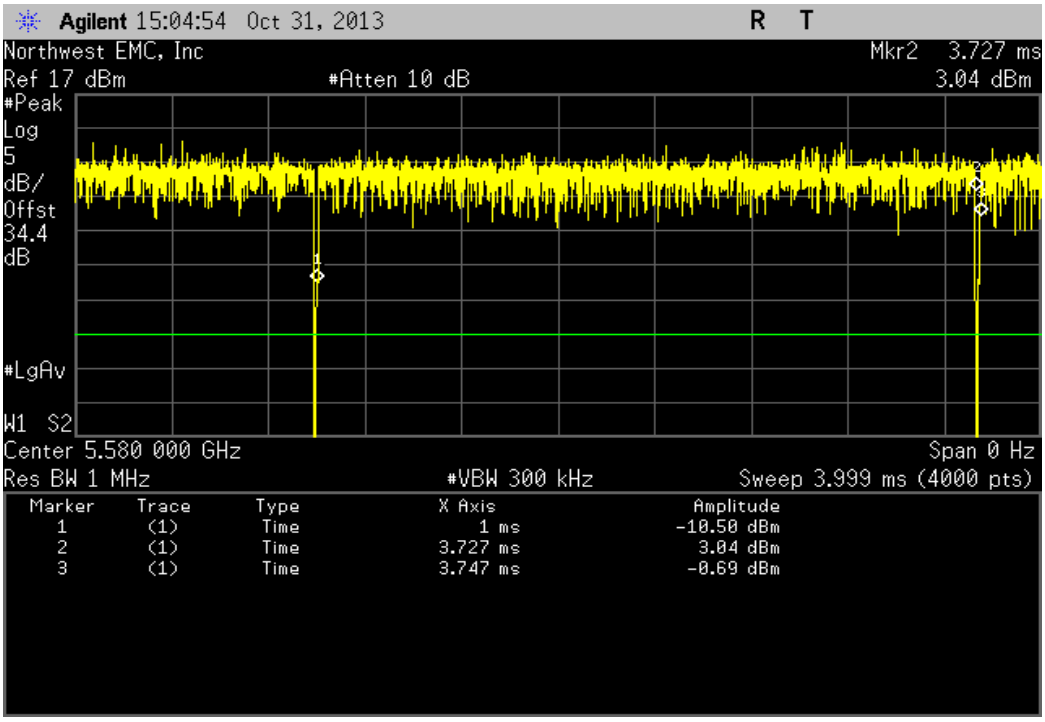


802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 100, Low Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

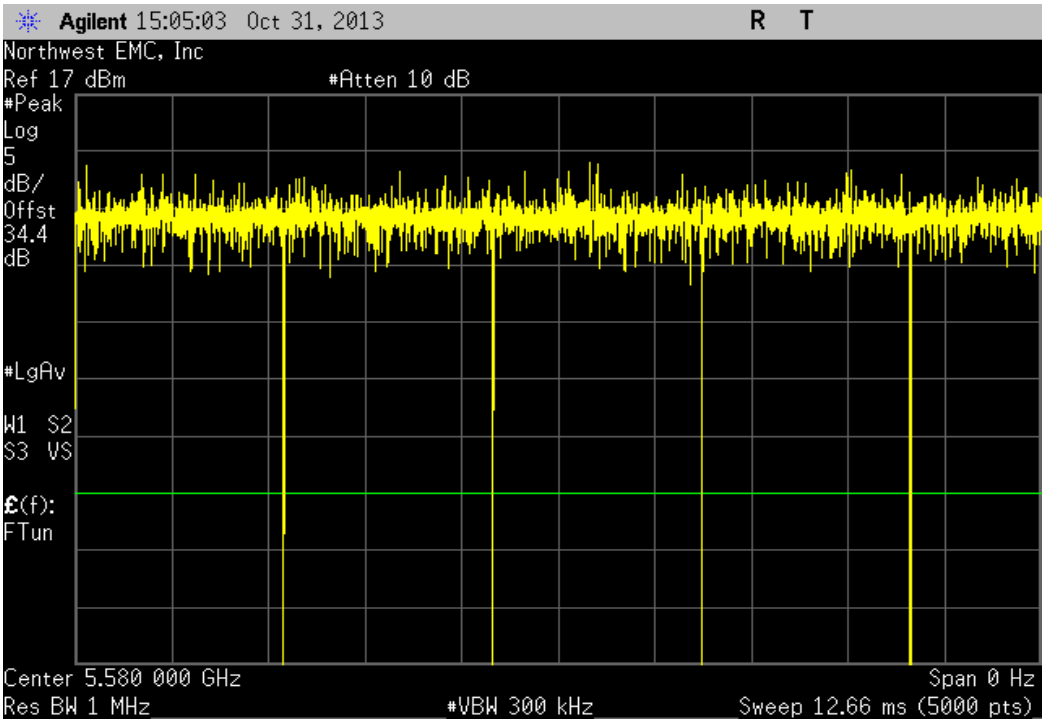


Duty Cycle

802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 116, Mid Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.727 mS	2.747 mS	1	99.3	N/A	N/A

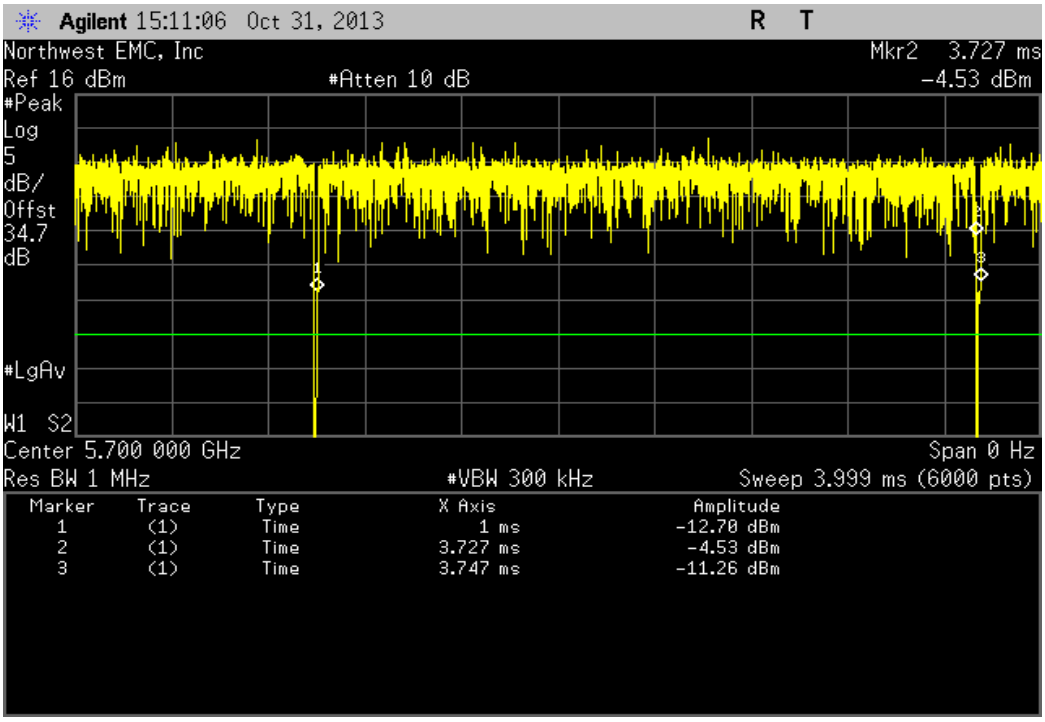


802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 116, Mid Channel					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

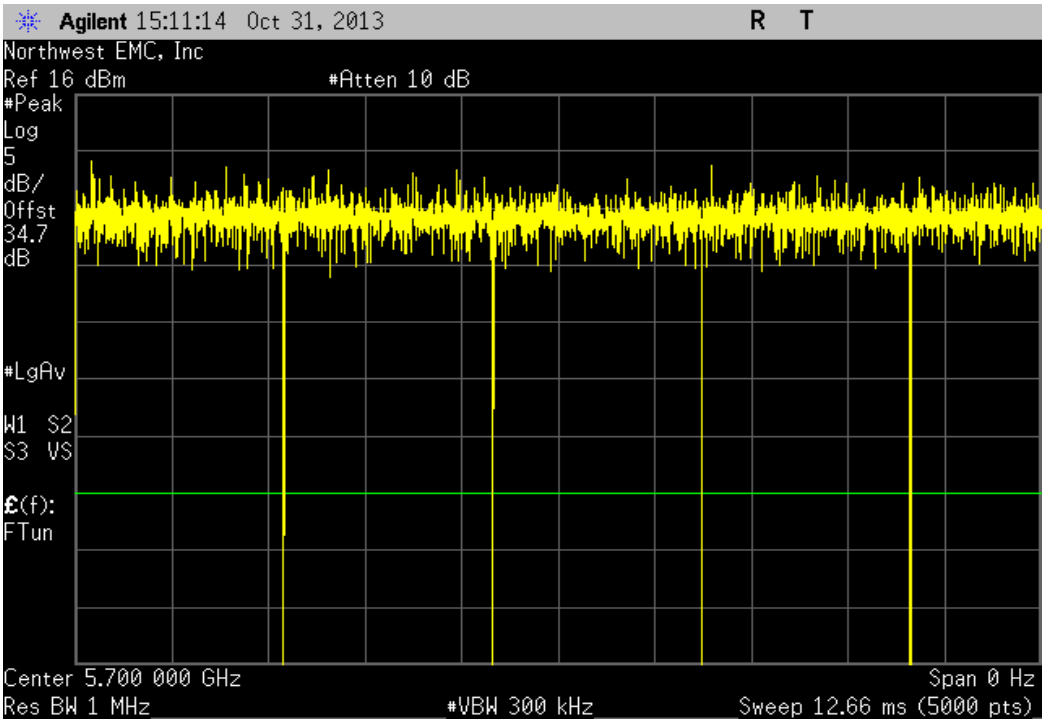


Duty Cycle

802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 140, High Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.727 mS	2.747 mS	1	99.3	N/A	N/A



802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 140, High Channel						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



Peak Transmit 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
Attenuator, 'Precision N'	S.M. Electronics	SA18N-06/SM4032	REE	12/11/2012	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	NCR	0
Power Meter	Gigatronics	8651A	SPM	1/9/2012	24
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	36
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
40GHz DC Block	Miteq	DCB4000	AMD	5/16/2013	12
Spectrum Analyzer	Agilent	E4446A	AAQ	2/7/2012	24

TEST DESCRIPTION

FCC KDB 789033 D01 General UNII Test Procedures Section C was followed. The transmit frequency was set to the required channels in each band. 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.

Prior to measuring peak transmit power; the emission bandwidth (B) and the transmission pulse duration (T) were measured. The method of measuring the emission bandwidth and the associated data are found elsewhere in this test report. The transmission pulse duration (T) was measured using a zero span on the spectrum analyzer to see the pulses in the time domain.

Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep) was used for this test.

The spectrum analyzer settings were set per the guidance as well as the following specifics:

- RBW = 1 MHz, VBW = 3 MHz
- Sample Detector
- The number of points was set to 601. This satisfied the requirement of being > 2 * span / RBW
- Trace average 100 traces in power averaging mode.
- Power was integrated across “B”, by using the channel power function of the analyzer.

Power Setting by Band:
5180MHz – 5240MHz, Power setting of 5000
5260MHz – 5320MHz, Power setting of 14000
5500MHz – 5700MHz, Power setting of 14000

Peak Transmit Power

EUT:	The EGG	Work Order:	INSD0001
Serial Number:	99	Date:	11/01/13
Customer:	Intel Corporation	Temperature:	22.2°C
Attendees:	None	Humidity:	42%
Project:	None	Barometric Pres.:	1015
Tested by:	Brandon Hobbs	Job Site:	EV06
Power:	4 VDC		

TEST SPECIFICATIONS	Test Method
FCC 15.407:2013	ANSI C63.10:2009

COMMENTS

The device was running at ≥ 99% duty cycle. The operating instructions for data rate and channel selection were provided by the client.

DEVIATIONS FROM TEST STANDARD

None

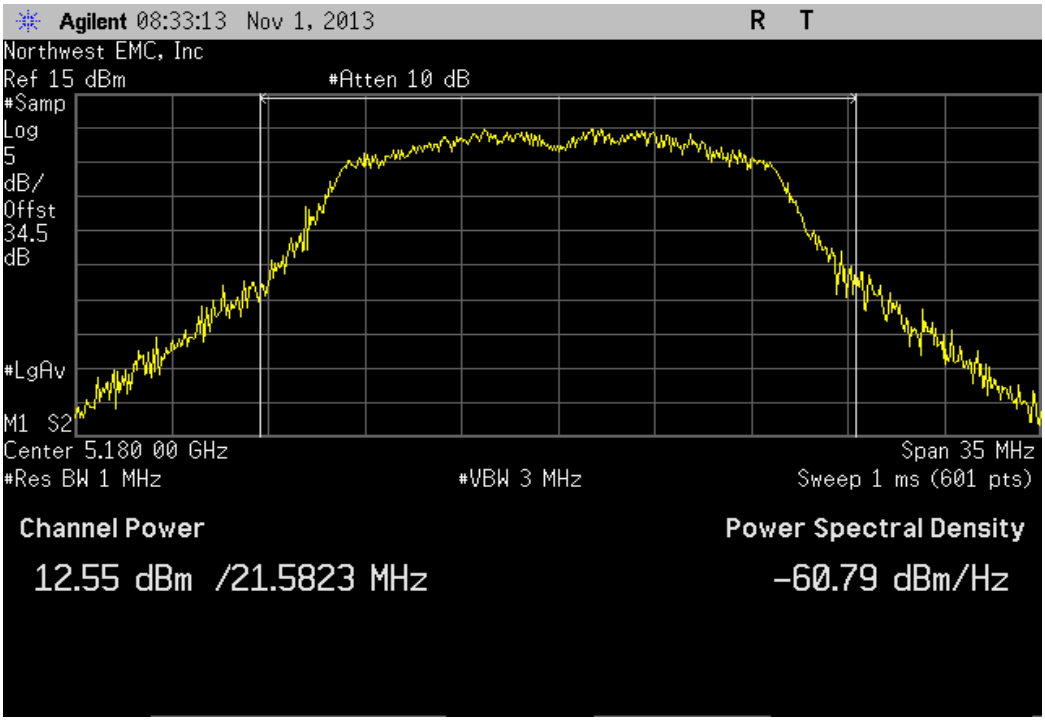
Configuration #	2	Signature

		Value	Limit	Result
802.11(a) 6 Mbps				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	12.552 dBm	< 17 dBm	Pass
	Channel 48, High Channel	12.779 dBm	< 17 dBm	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	20.151 dBm	< 24 dBm	Pass
	Channel 64, High Channel	20.066 dBm	< 24 dBm	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	18.333 dBm	< 24 dBm	Pass
	Channel 116, Mid Channel	17.392 dBm	< 24 dBm	Pass
	Channel 140, High Channel	16.473 dBm	< 24 dBm	Pass
802.11(a) 36 Mbps				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	12.674 dBm	< 17 dBm	Pass
	Channel 48, High Channel	13.11 dBm	< 17 dBm	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	20.219 dBm	< 24 dBm	Pass
	Channel 64, High Channel	20.136 dBm	< 24 dBm	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	18.351 dBm	< 24 dBm	Pass
	Channel 116, Mid Channel	17.405 dBm	< 24 dBm	Pass
	Channel 140, High Channel	16.484 dBm	< 24 dBm	Pass
802.11(a) 54 Mbps				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	12.48 dBm	< 17 dBm	Pass
	Channel 48, High Channel	13.154 dBm	< 17 dBm	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	20.169 dBm	< 24 dBm	Pass
	Channel 64, High Channel	20.021 dBm	< 24 dBm	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	18.336 dBm	< 24 dBm	Pass
	Channel 116, Mid Channel	17.387 dBm	< 24 dBm	Pass
	Channel 140, High Channel	16.499 dBm	< 24 dBm	Pass
802.11(n) MCS0				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	12.48 dBm	< 17 dBm	Pass
	Channel 48, High Channel	13.139 dBm	< 17 dBm	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	20.115 dBm	< 24 dBm	Pass
	Channel 64, High Channel	20.02 dBm	< 24 dBm	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	18.334 dBm	< 24 dBm	Pass
	Channel 116, Mid Channel	17.368 dBm	< 24 dBm	Pass
	Channel 140, High Channel	16.509 dBm	< 24 dBm	Pass
802.11(n) MCS7				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	12.559 dBm	< 17 dBm	Pass
	Channel 48, High Channel	13.165 dBm	< 17 dBm	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	19.936 dBm	< 24 dBm	Pass
	Channel 64, High Channel	19.829 dBm	< 24 dBm	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	18.03 dBm	< 24 dBm	Pass
	Channel 116, Mid Channel	17.238 dBm	< 24 dBm	Pass
	Channel 140, High Channel	16.234 dBm	< 24 dBm	Pass

Peak Transmit Power

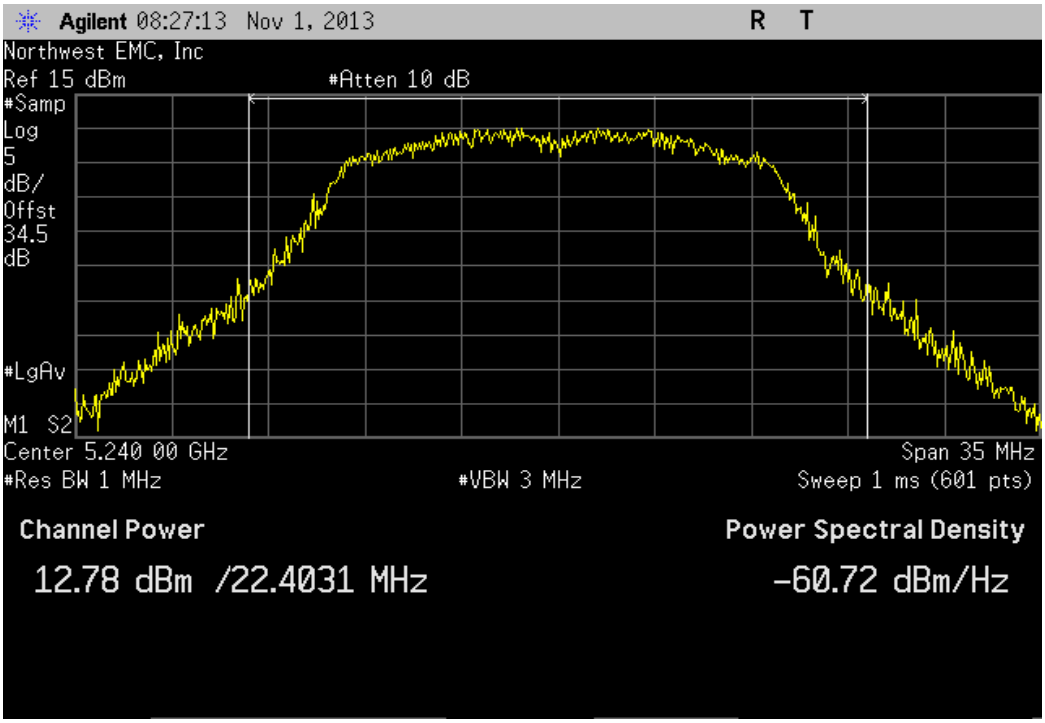
802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel

				Value	Limit	Result
				12.552 dBm	< 17 dBm	Pass



802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel

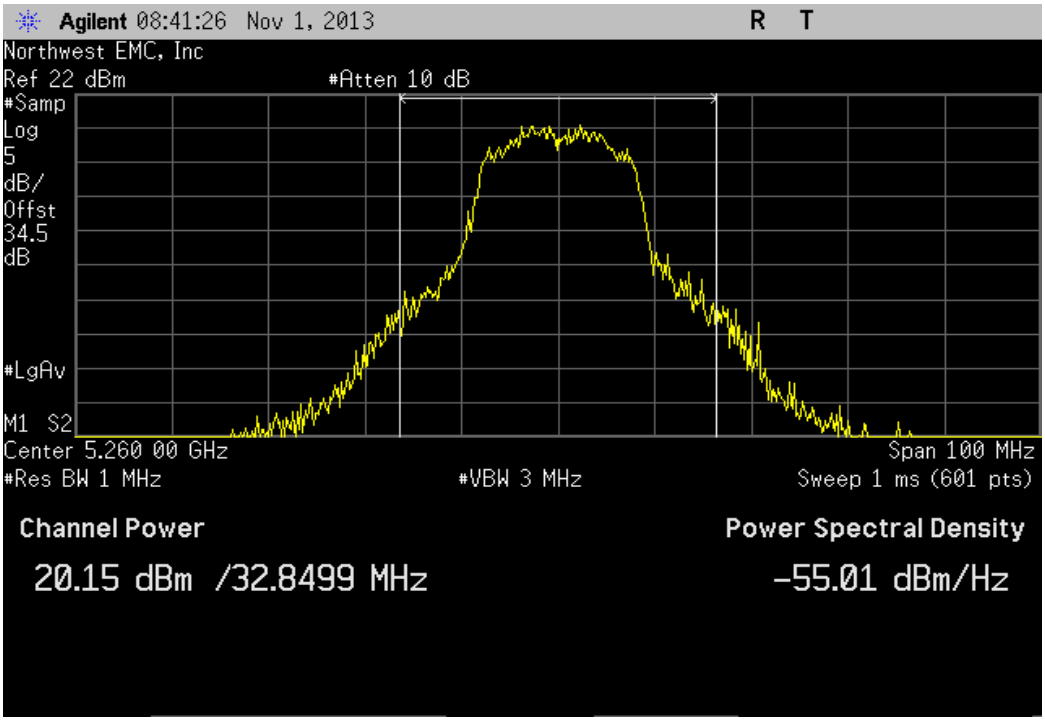
				Value	Limit	Result
				12.779 dBm	< 17 dBm	Pass



Peak Transmit Power

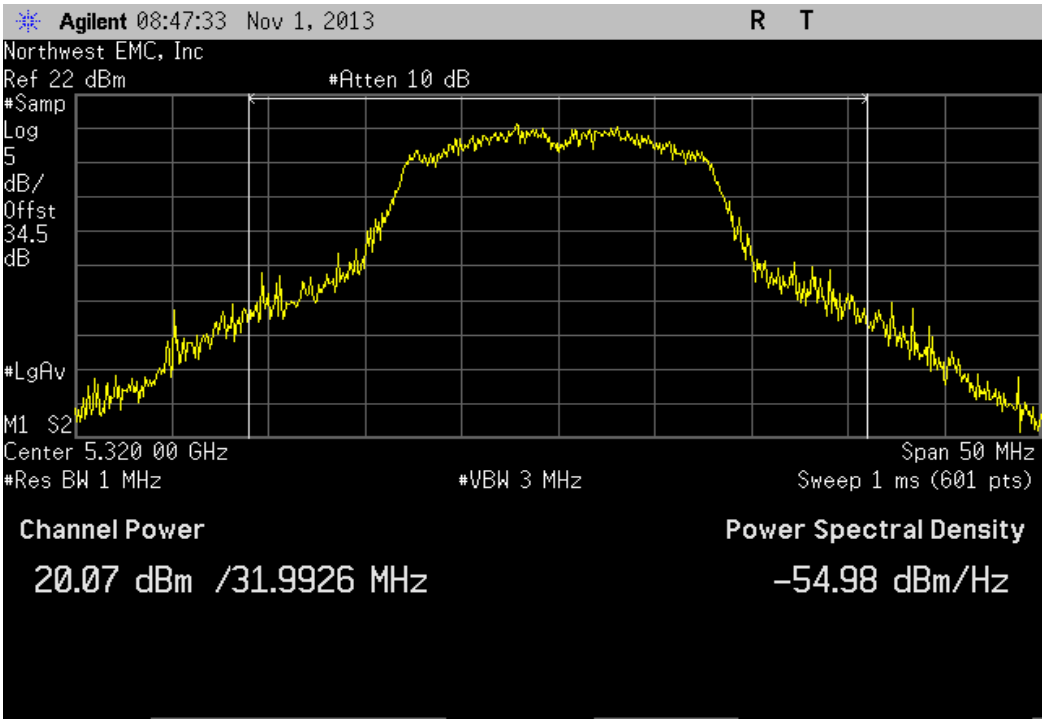
802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel

				Value	Limit	Result
				20.151 dBm	< 24 dBm	Pass



802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel

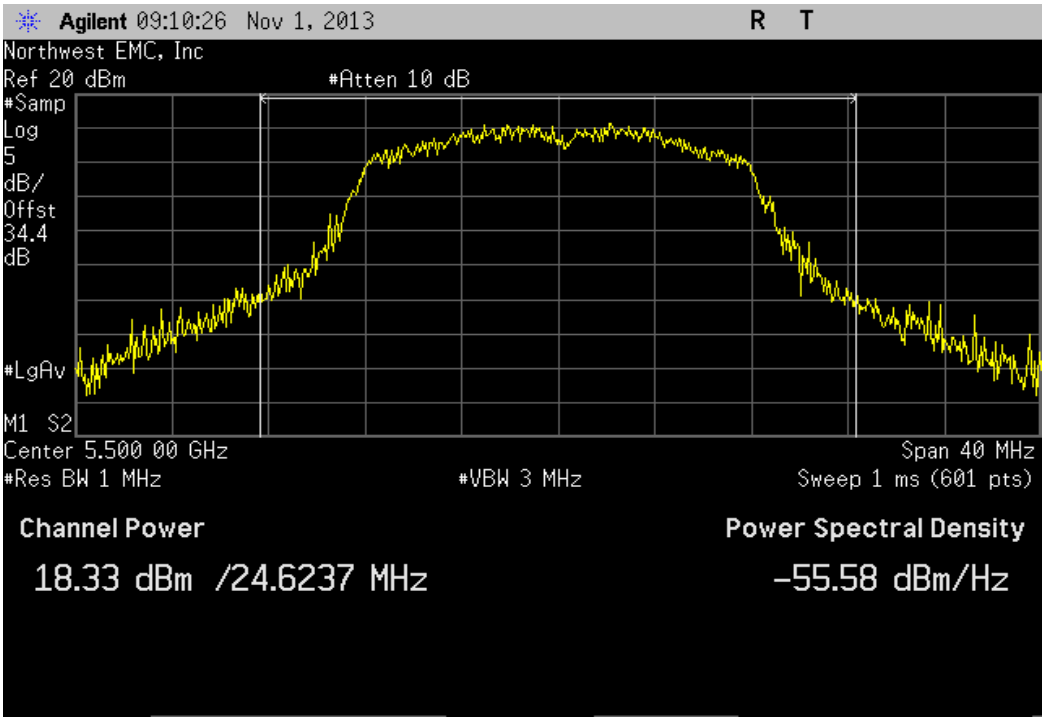
				Value	Limit	Result
				20.066 dBm	< 24 dBm	Pass



Peak Transmit Power

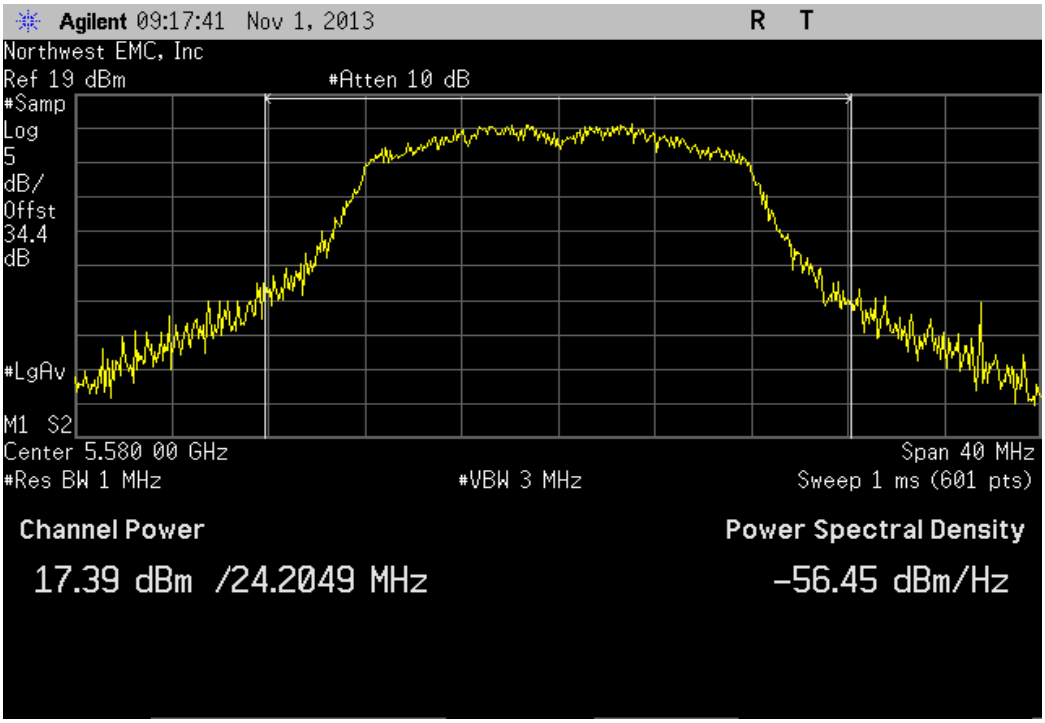
802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel

				Value	Limit	Result
				18.333 dBm	< 24 dBm	Pass



802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel

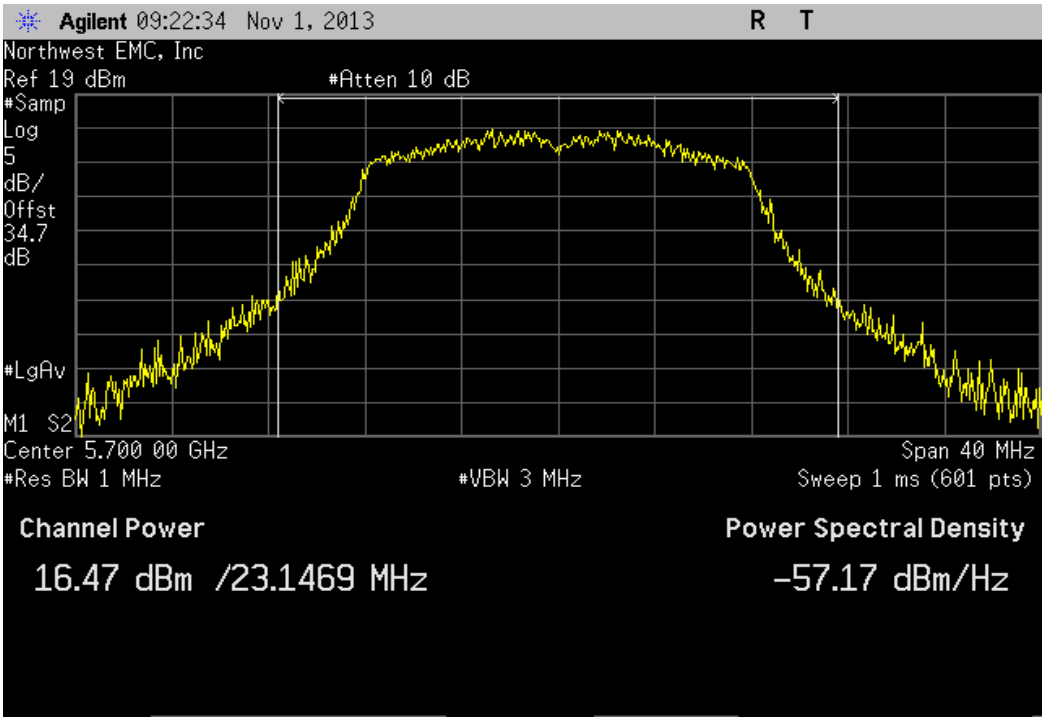
				Value	Limit	Result
				17.392 dBm	< 24 dBm	Pass



Peak Transmit Power

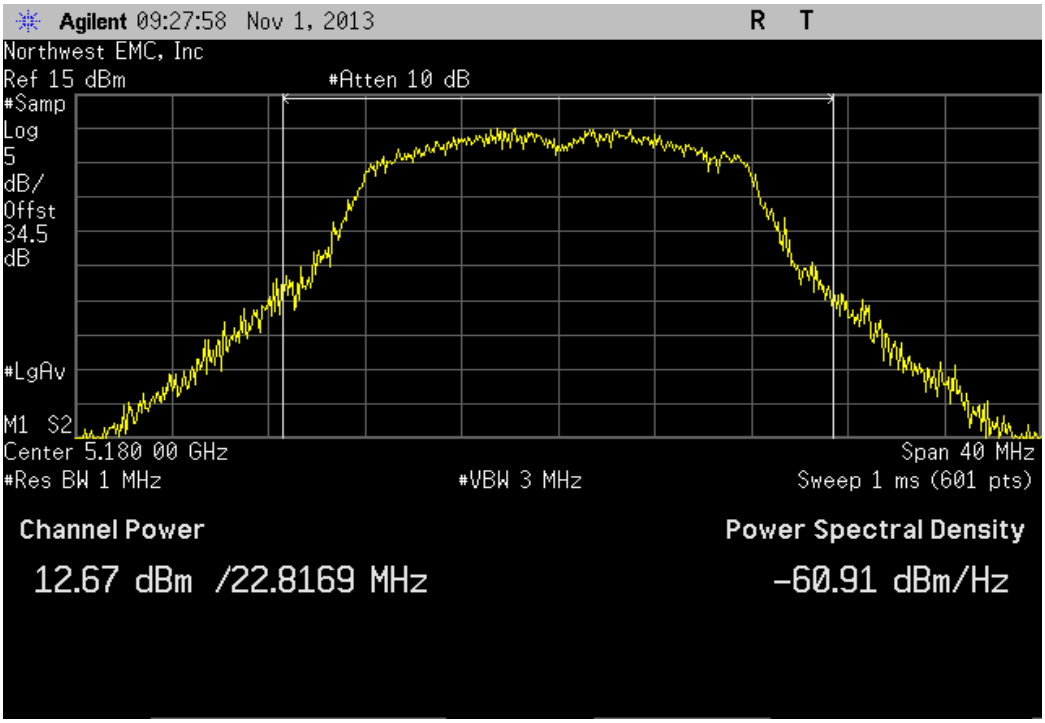
802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel

				Value	Limit	Result
				16.473 dBm	< 24 dBm	Pass



802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel

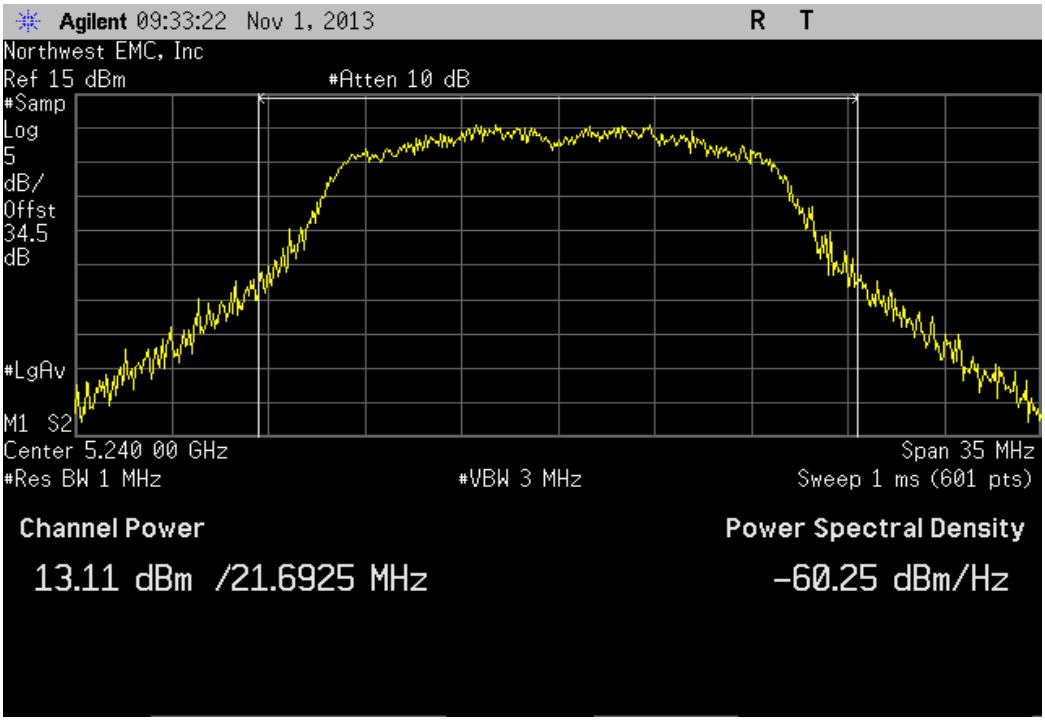
				Value	Limit	Result
				12.674 dBm	< 17 dBm	Pass



Peak Transmit Power

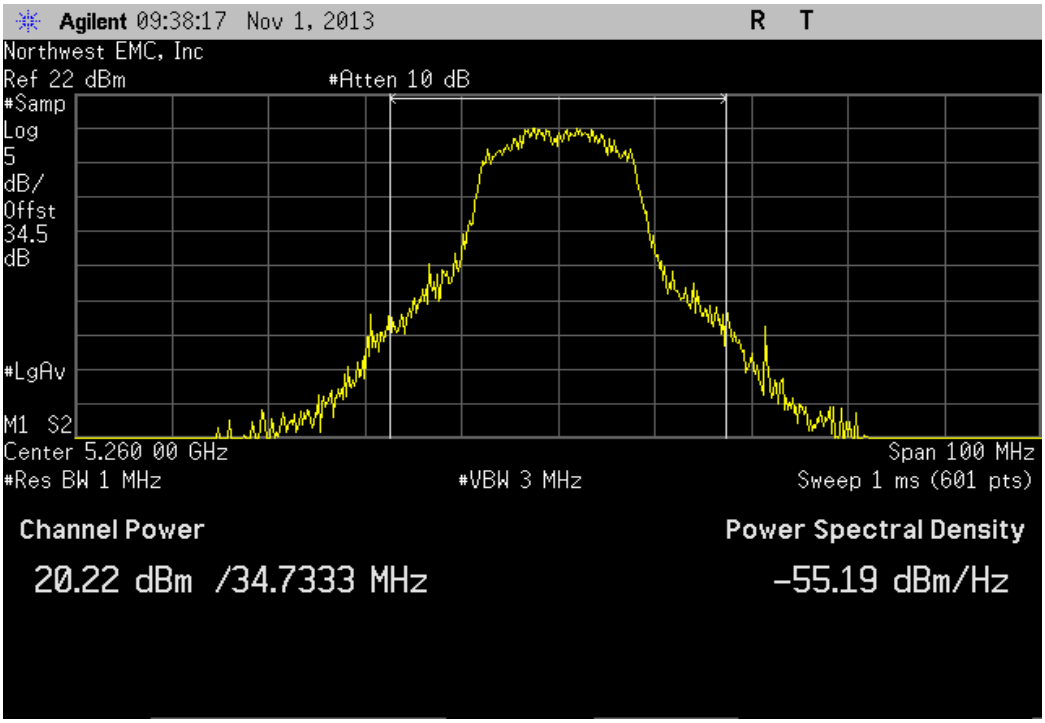
802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel

				Value	Limit	Result
				13.11 dBm	< 17 dBm	Pass

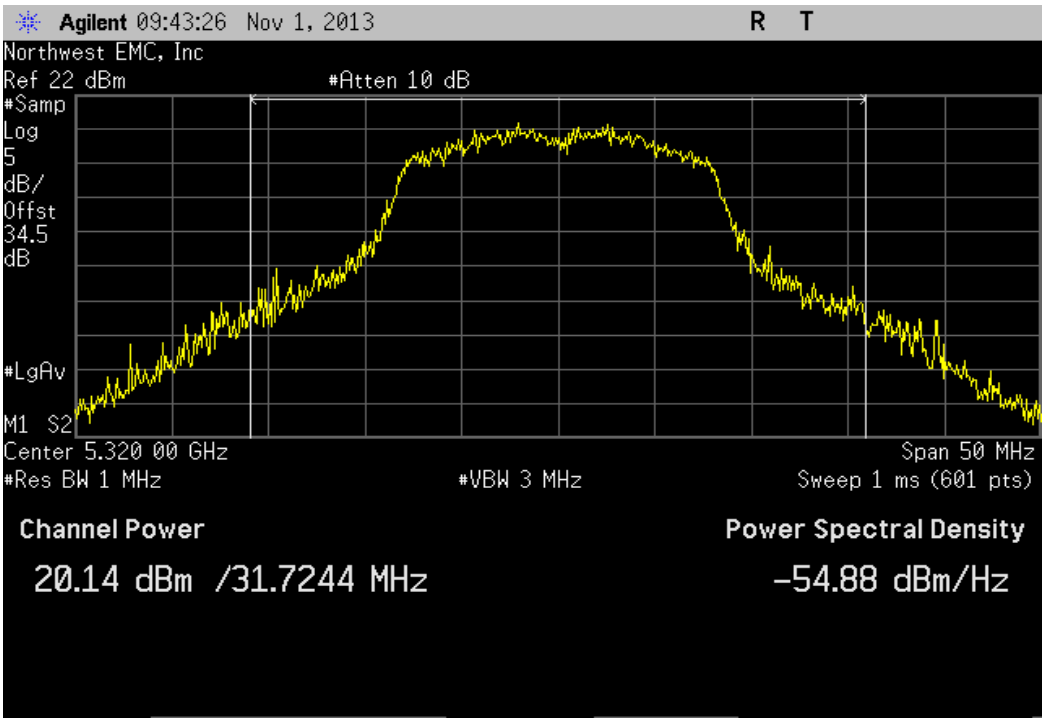


802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel

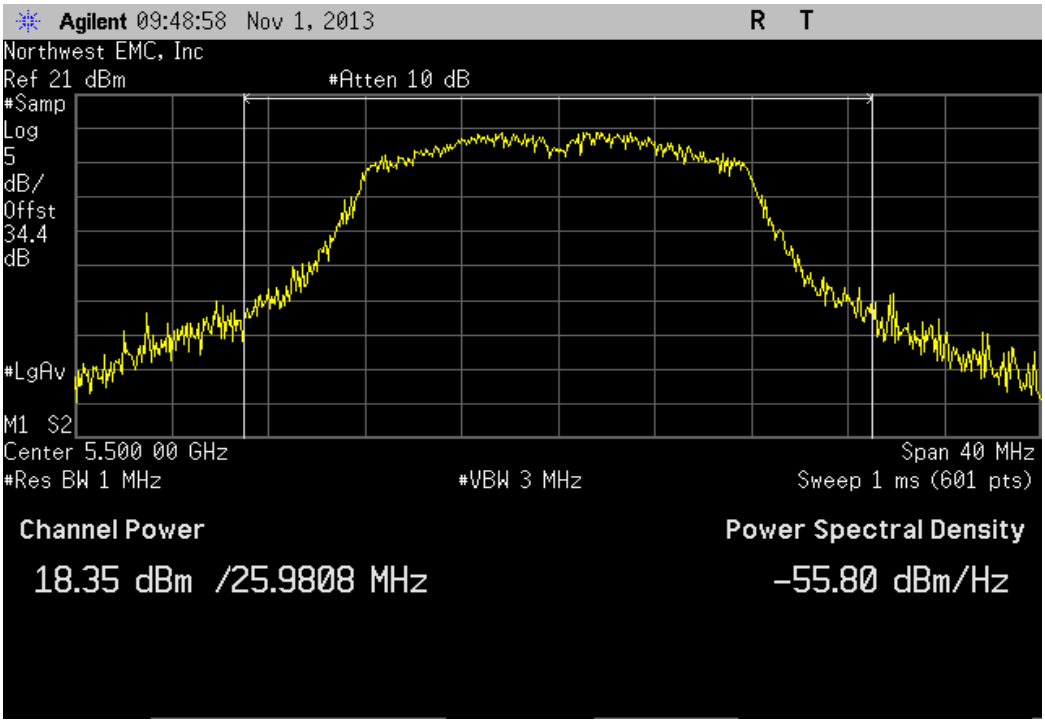
				Value	Limit	Result
				20.219 dBm	< 24 dBm	Pass



802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel						
				Value	Limit	Result
				20.136 dBm	< 24 dBm	Pass



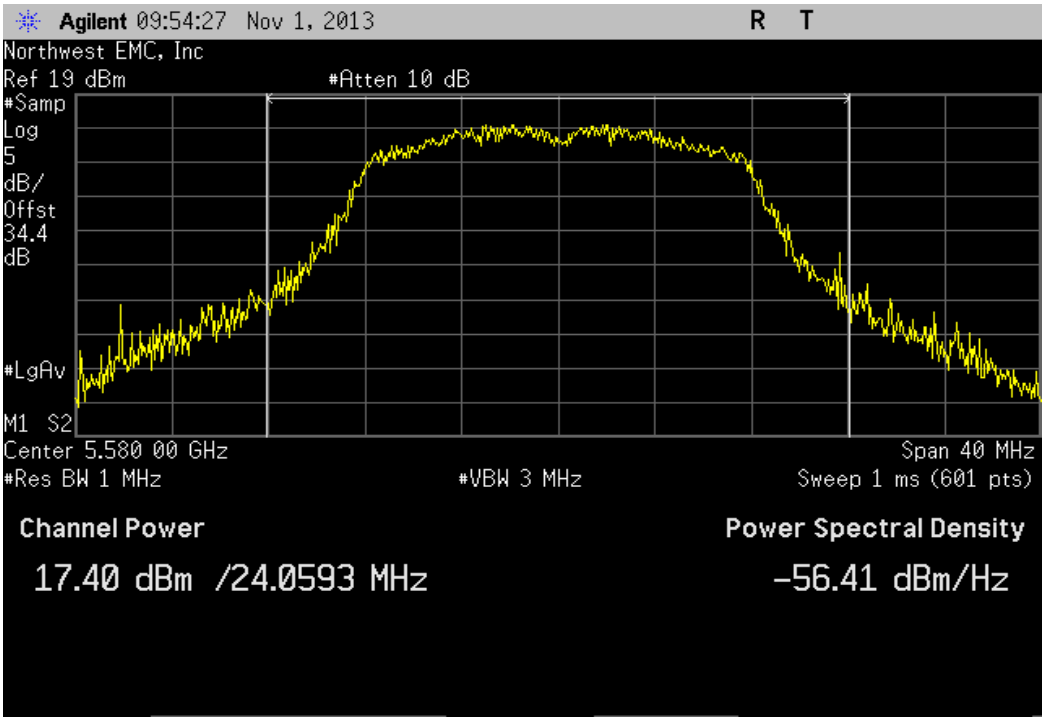
802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel						
				Value	Limit	Result
				18.351 dBm	< 24 dBm	Pass



Peak Transmit Power

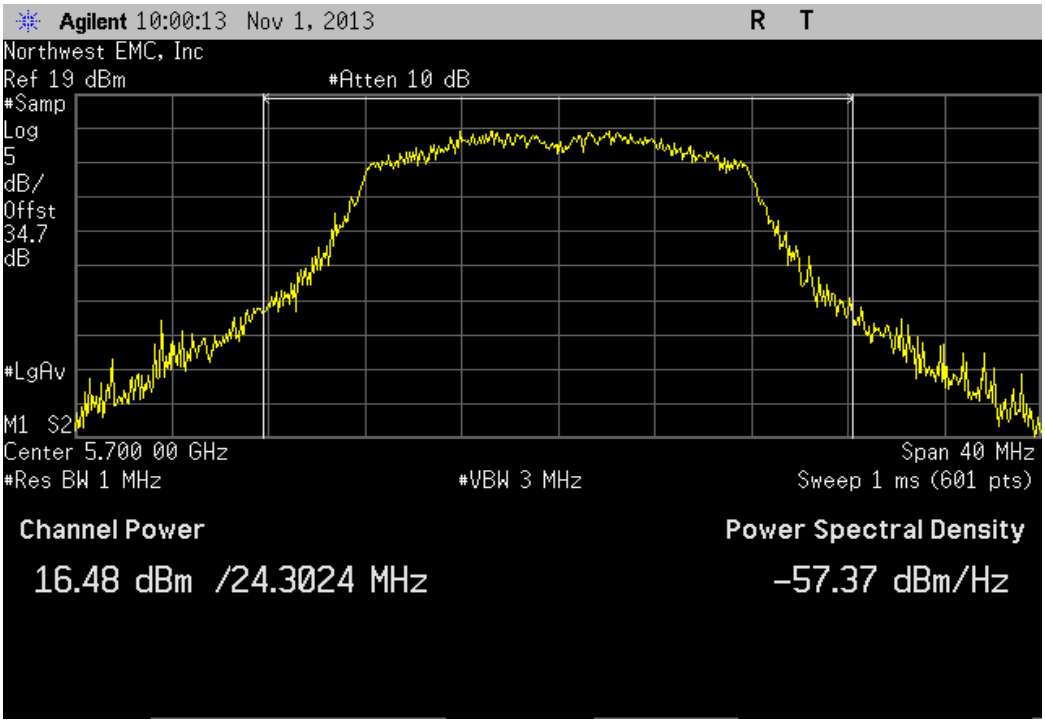
802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel

				Value	Limit	Result
				17.405 dBm	< 24 dBm	Pass



802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel

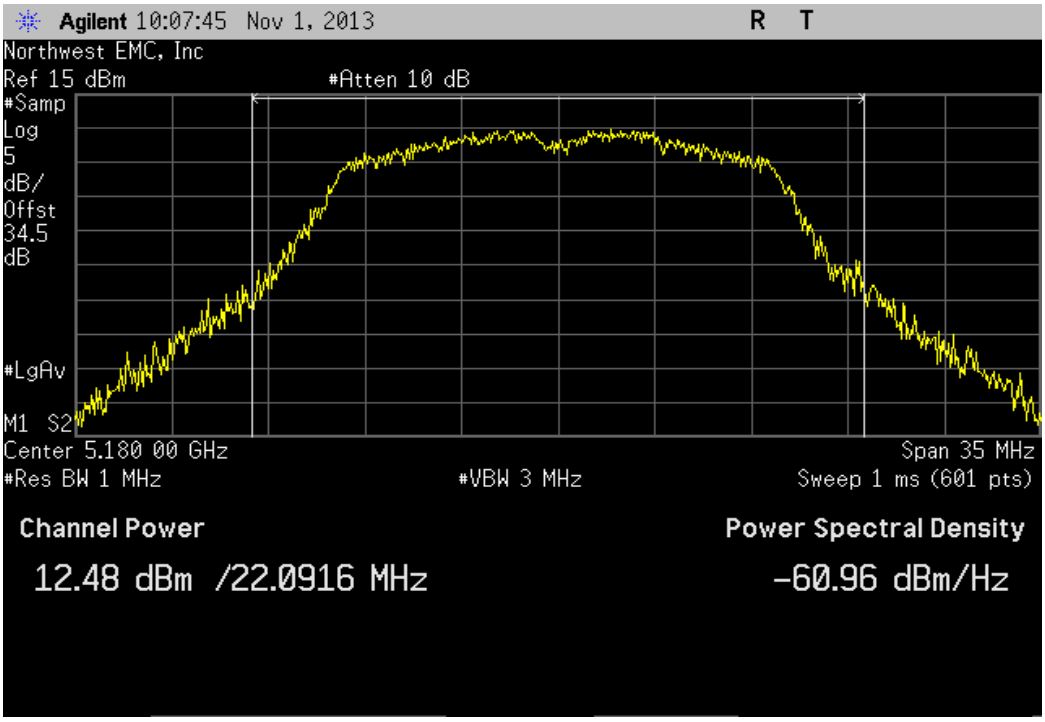
				Value	Limit	Result
				16.484 dBm	< 24 dBm	Pass



Peak Transmit Power

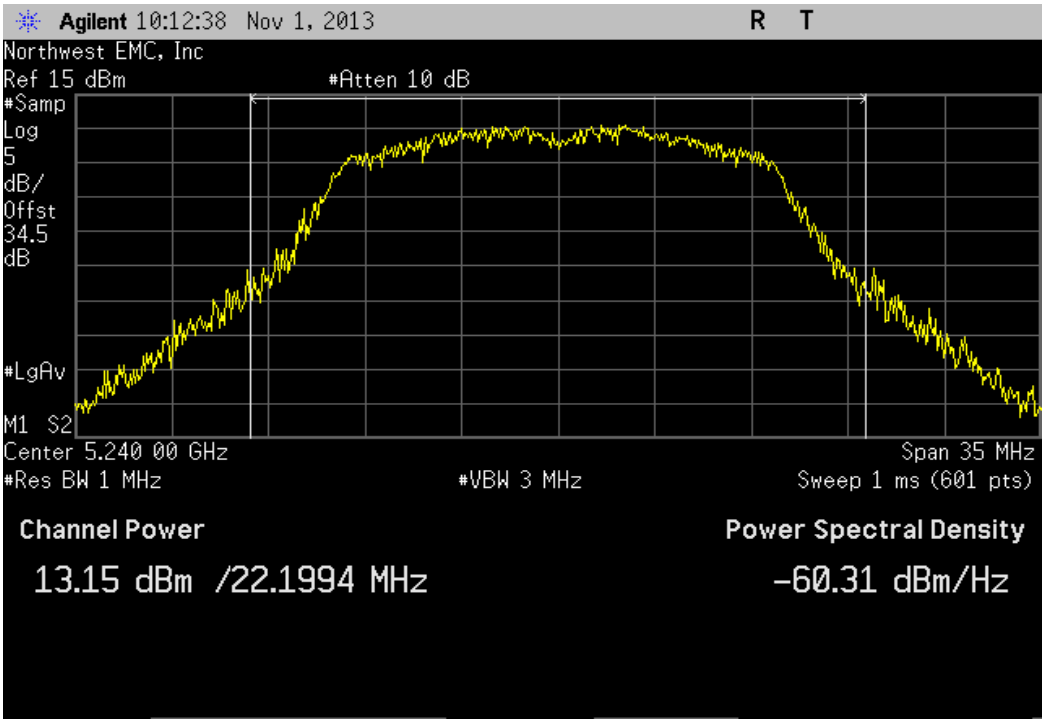
802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel

				Value	Limit	Result
				12.48 dBm	< 17 dBm	Pass



802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel

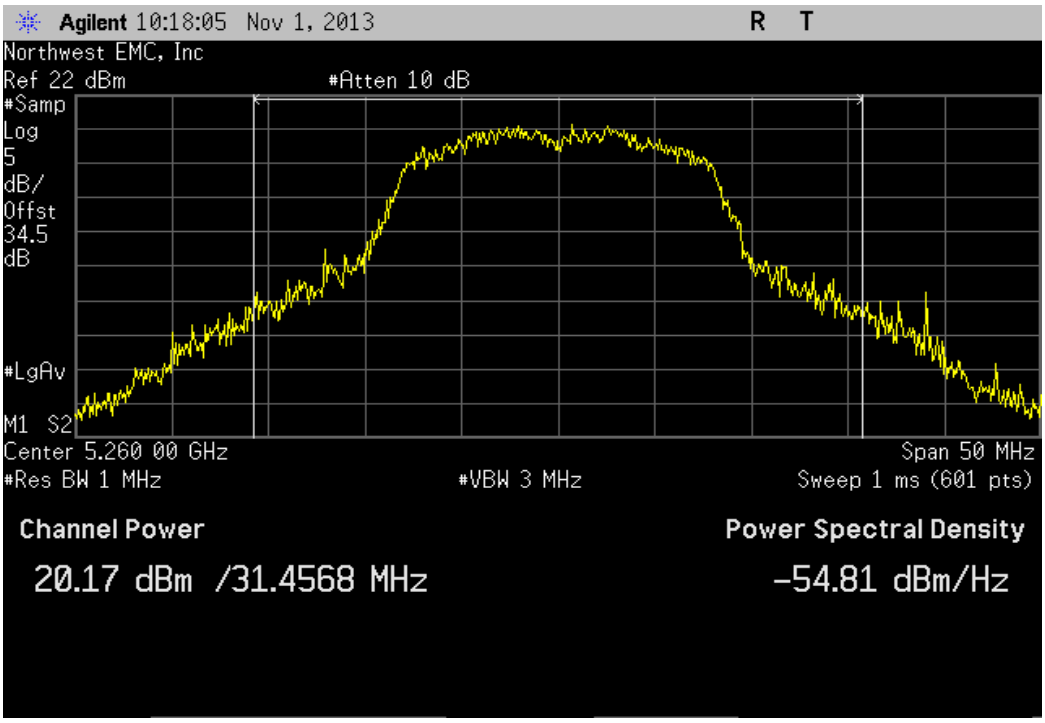
				Value	Limit	Result
				13.154 dBm	< 17 dBm	Pass



Peak Transmit Power

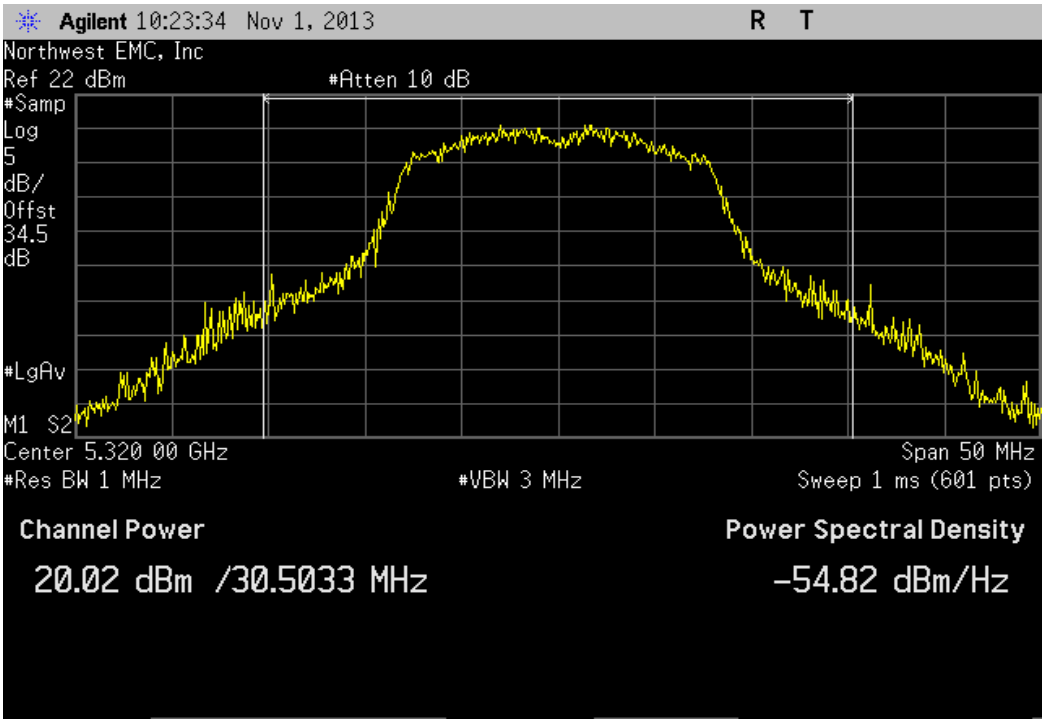
802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel

				Value	Limit	Result
				20.169 dBm	< 24 dBm	Pass



802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel

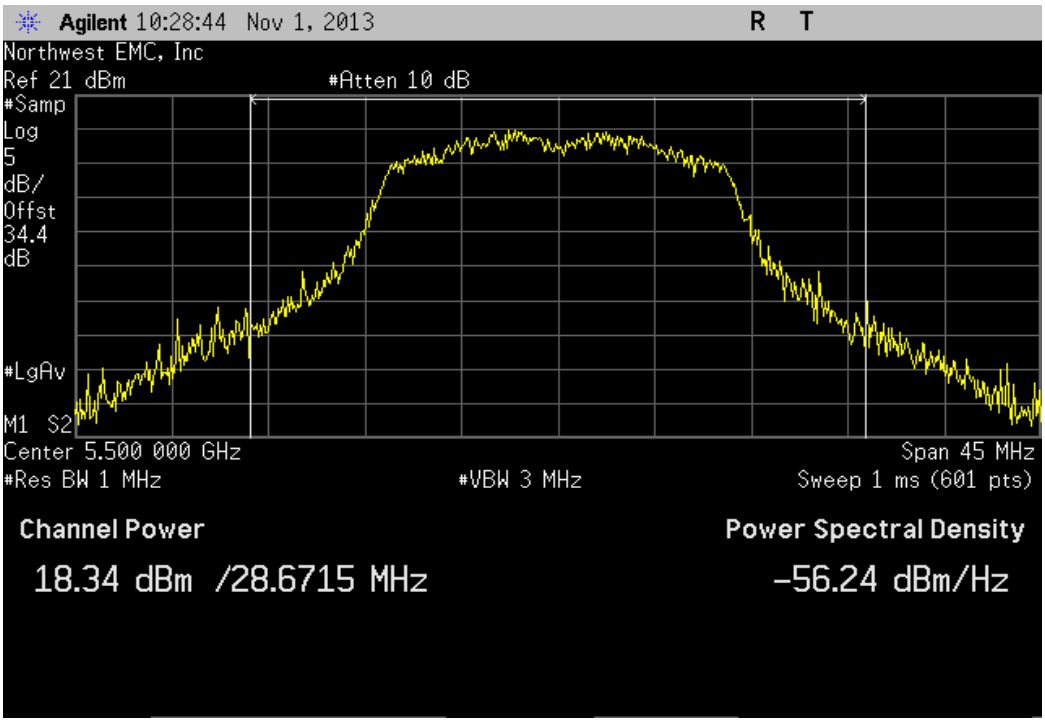
				Value	Limit	Result
				20.021 dBm	< 24 dBm	Pass



Peak Transmit Power

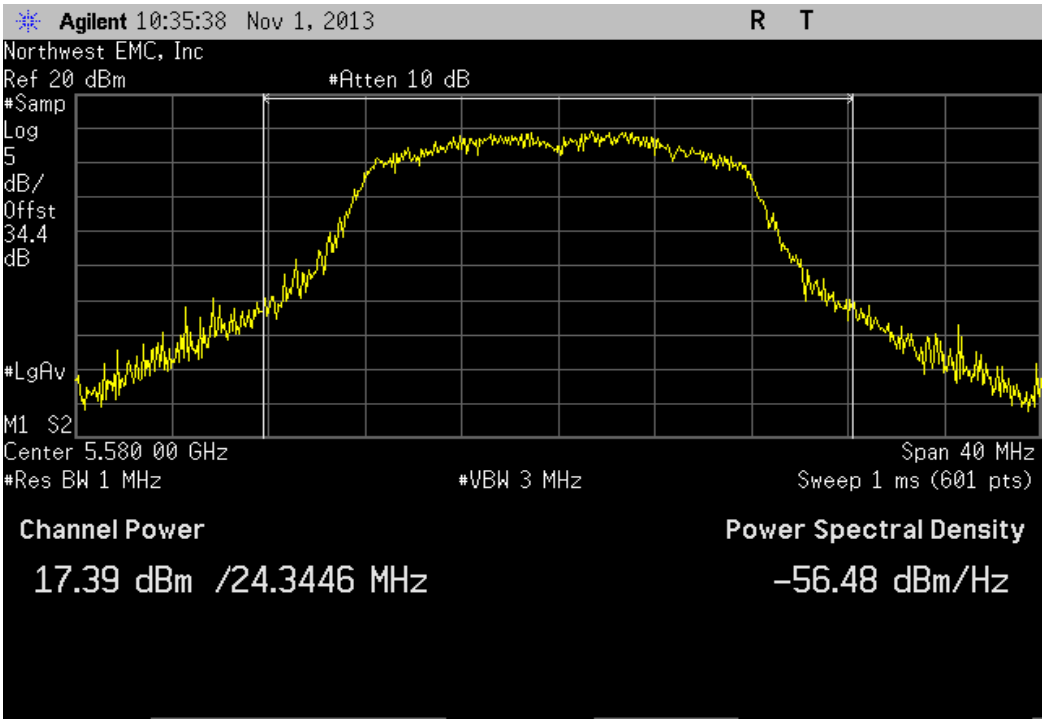
802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel

				Value	Limit	Result
				18.336 dBm	< 24 dBm	Pass



802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel

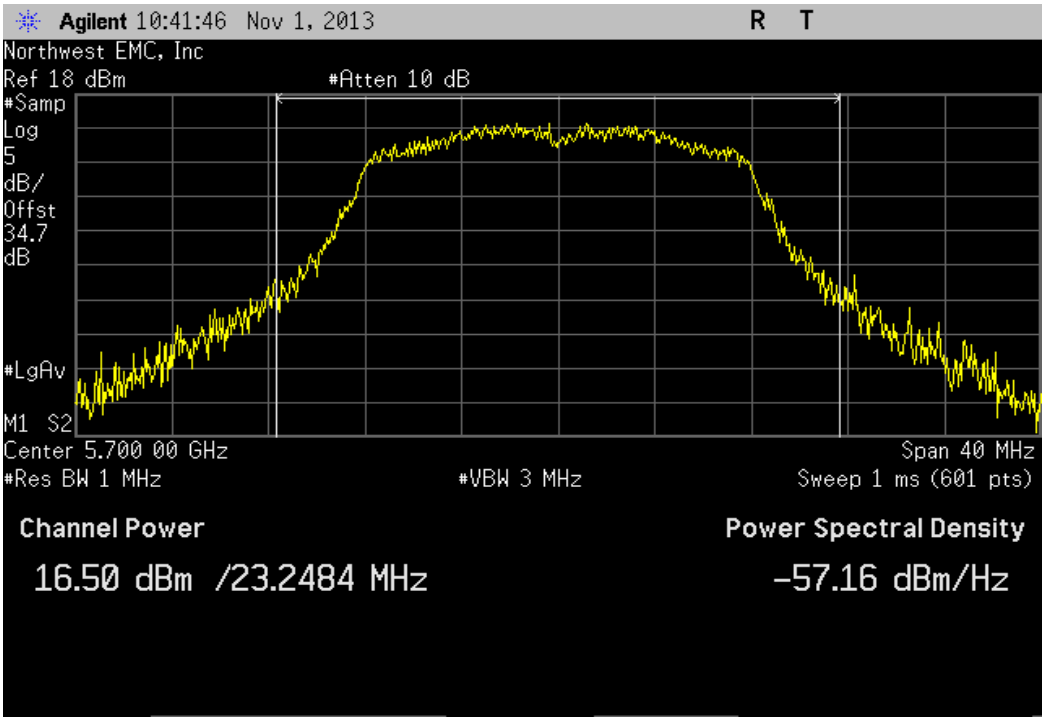
				Value	Limit	Result
				17.387 dBm	< 24 dBm	Pass



Peak Transmit Power

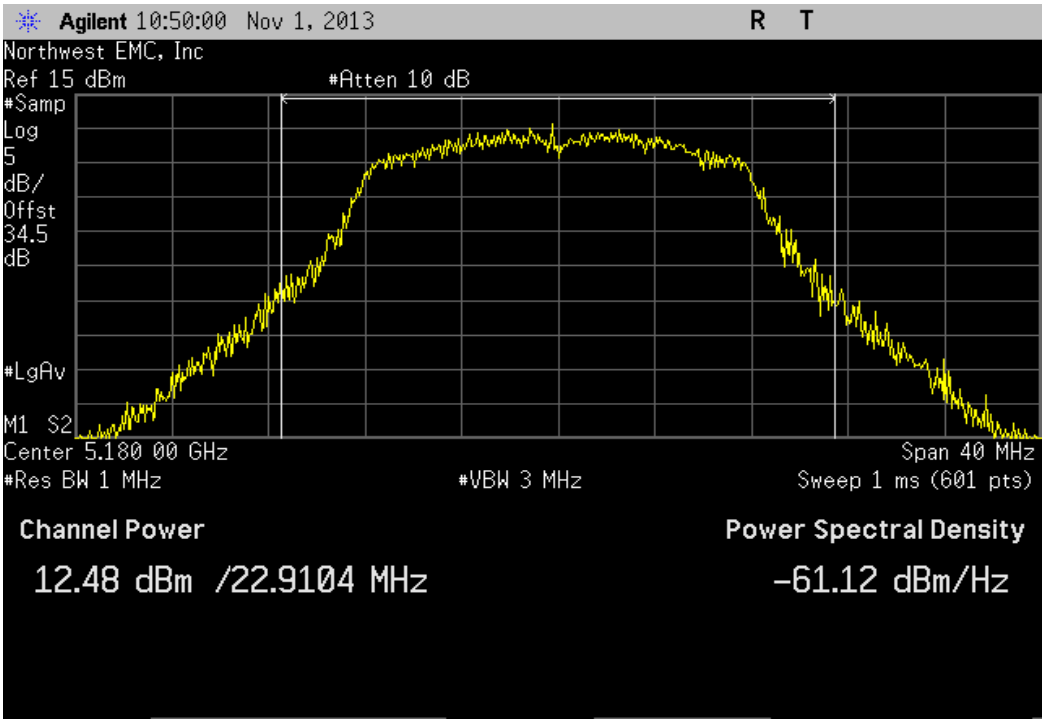
802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel

				Value	Limit	Result
				16.499 dBm	< 24 dBm	Pass



802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 36, Low Channel

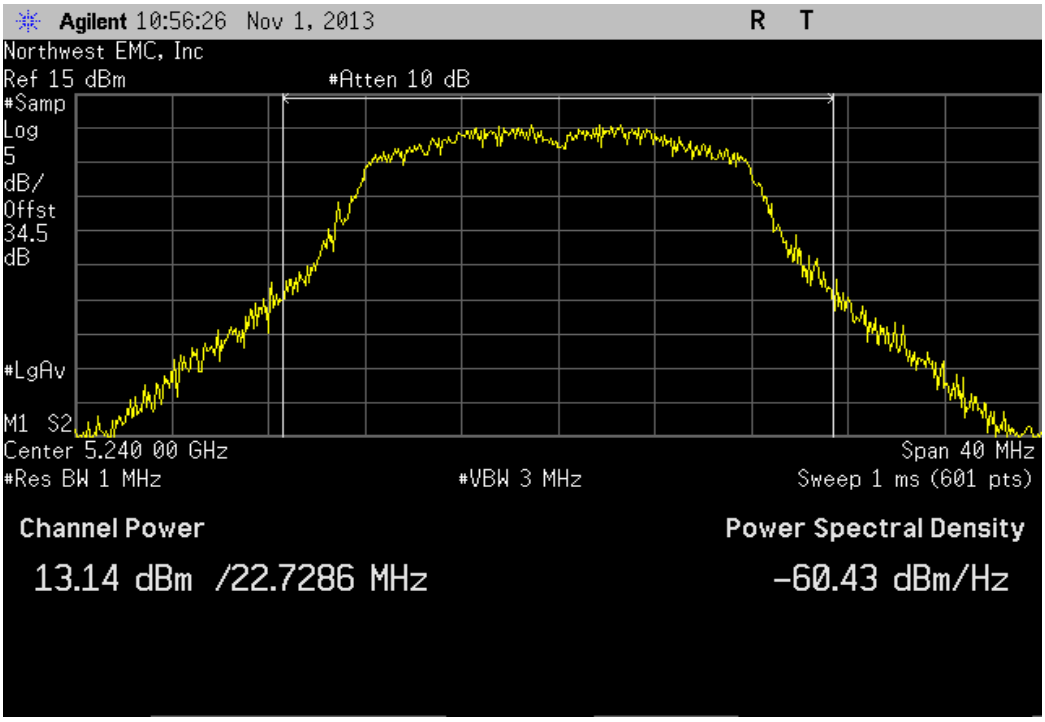
				Value	Limit	Result
				12.48 dBm	< 17 dBm	Pass



Peak Transmit Power

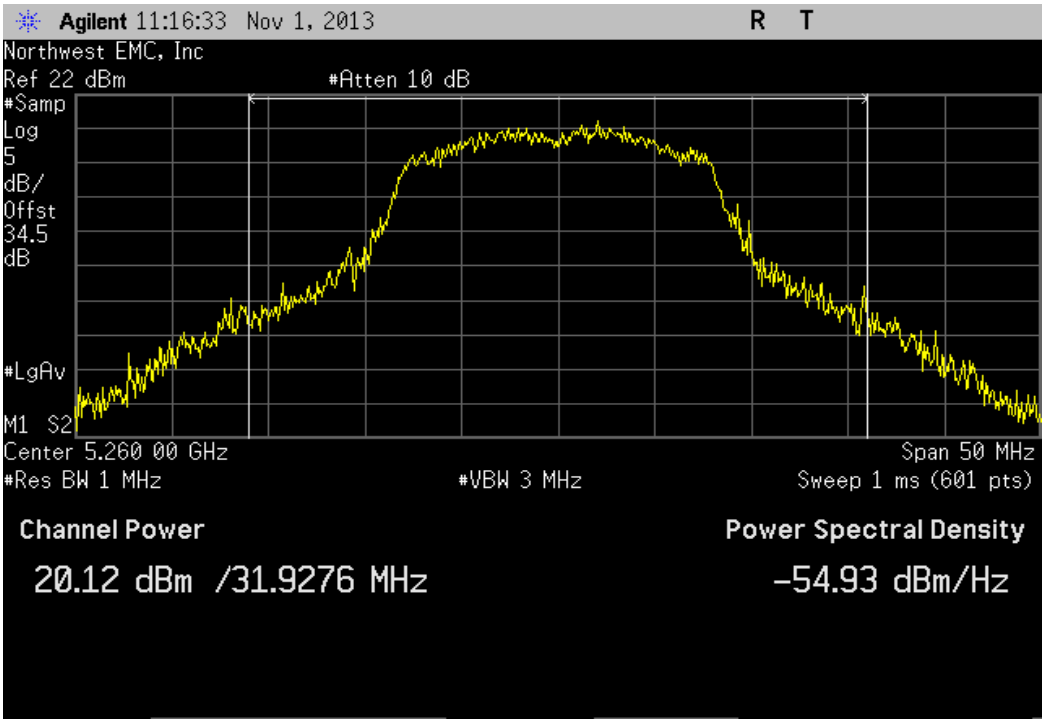
802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 48, High Channel

				Value	Limit	Result
				13.139 dBm	< 17 dBm	Pass



802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 52, Low Channel

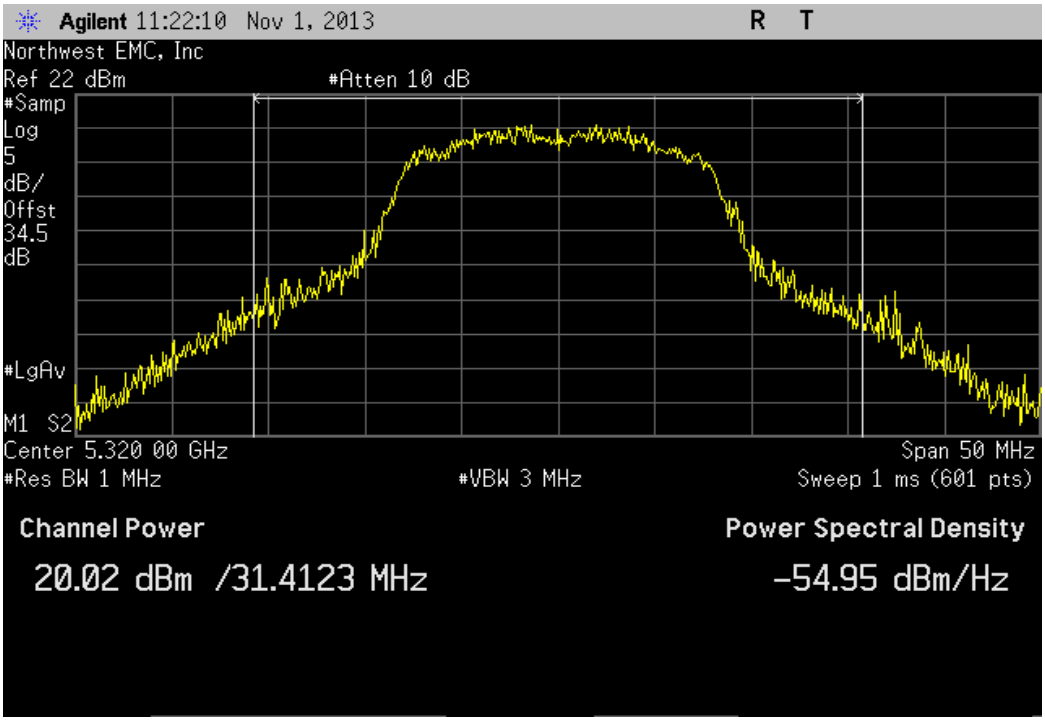
				Value	Limit	Result
				20.115 dBm	< 24 dBm	Pass



Peak Transmit Power

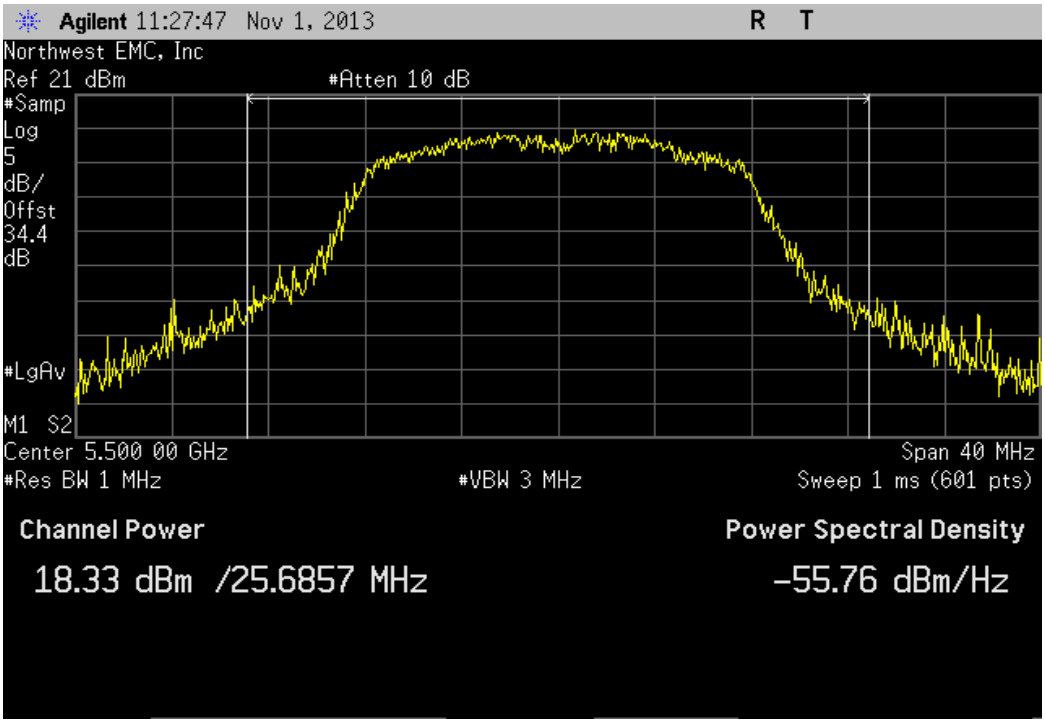
802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 64, High Channel

				Value	Limit	Result
				20.02 dBm	< 24 dBm	Pass



802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 100, Low Channel

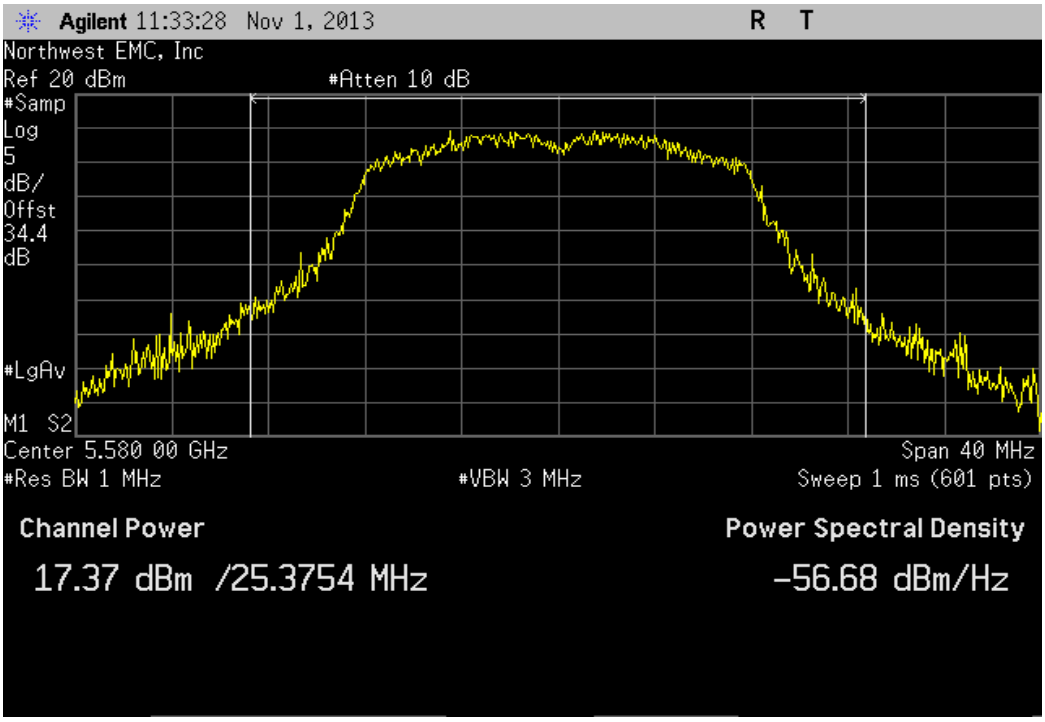
				Value	Limit	Result
				18.334 dBm	< 24 dBm	Pass



Peak Transmit Power

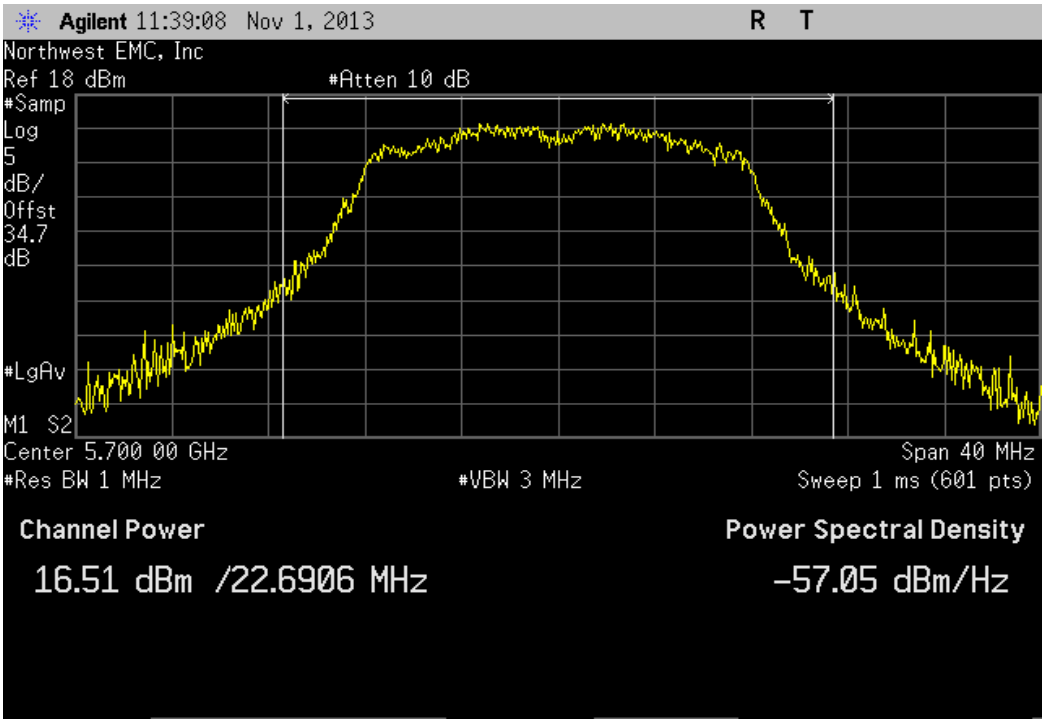
802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 116, Mid Channel

				Value	Limit	Result
				17.368 dBm	< 24 dBm	Pass



802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 140, High Channel

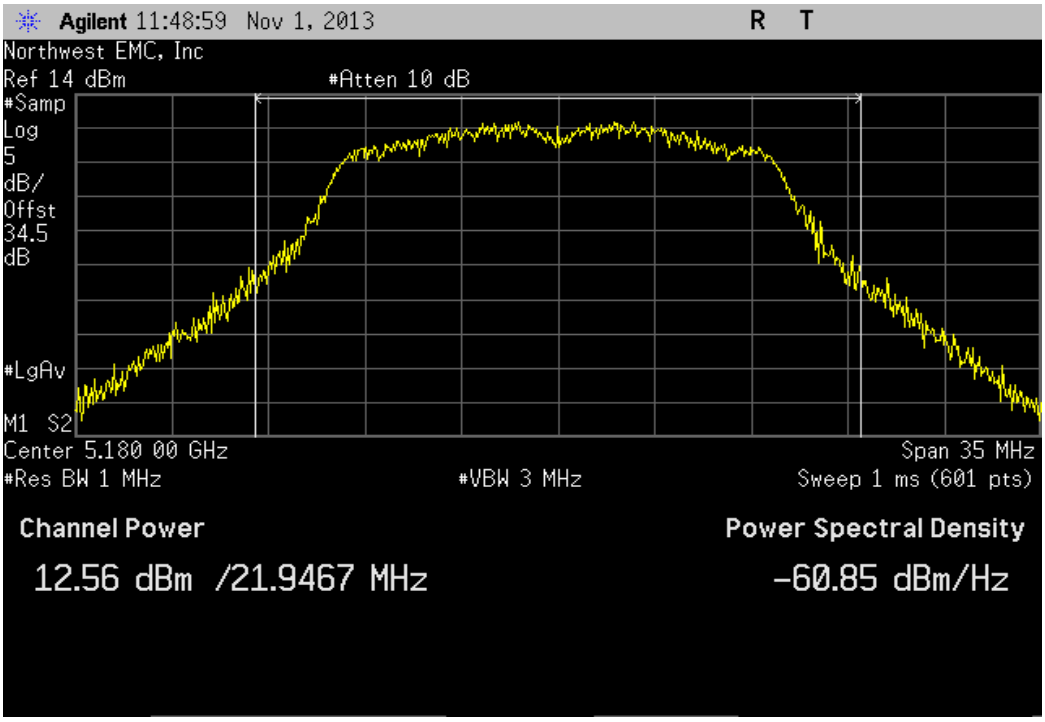
				Value	Limit	Result
				16.509 dBm	< 24 dBm	Pass



Peak Transmit Power

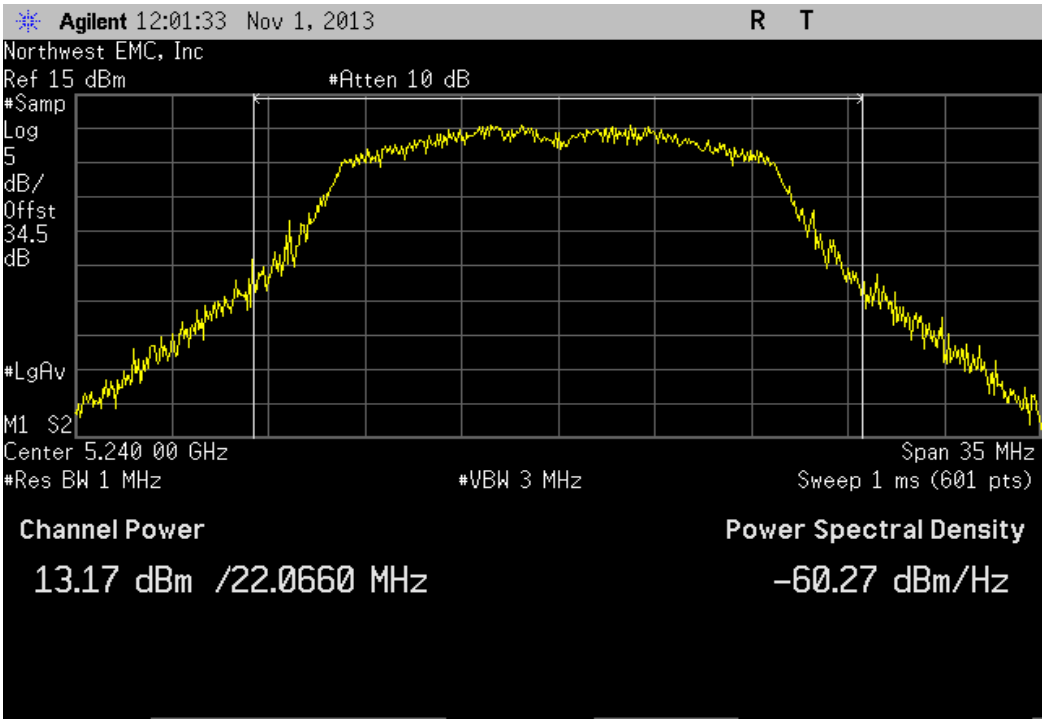
802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 36, Low Channel

				Value	Limit	Result
				12.559 dBm	< 17 dBm	Pass



802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 48, High Channel

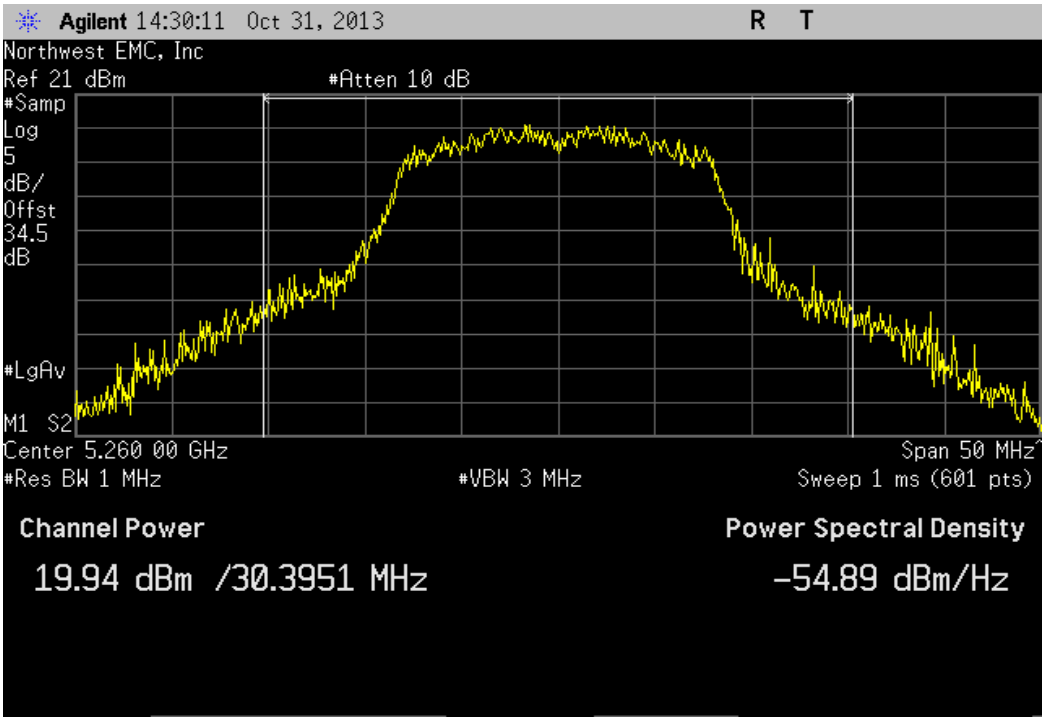
				Value	Limit	Result
				13.165 dBm	< 17 dBm	Pass



Peak Transmit Power

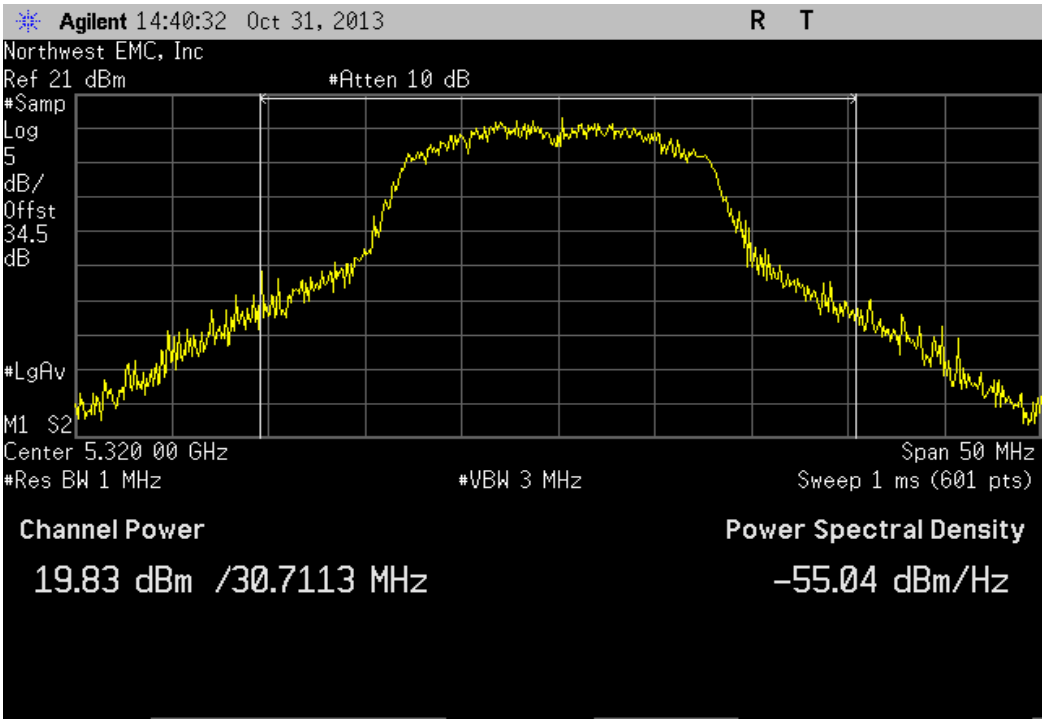
802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 52, Low Channel

				Value	Limit	Result
				19.936 dBm	< 24 dBm	Pass



802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 64, High Channel

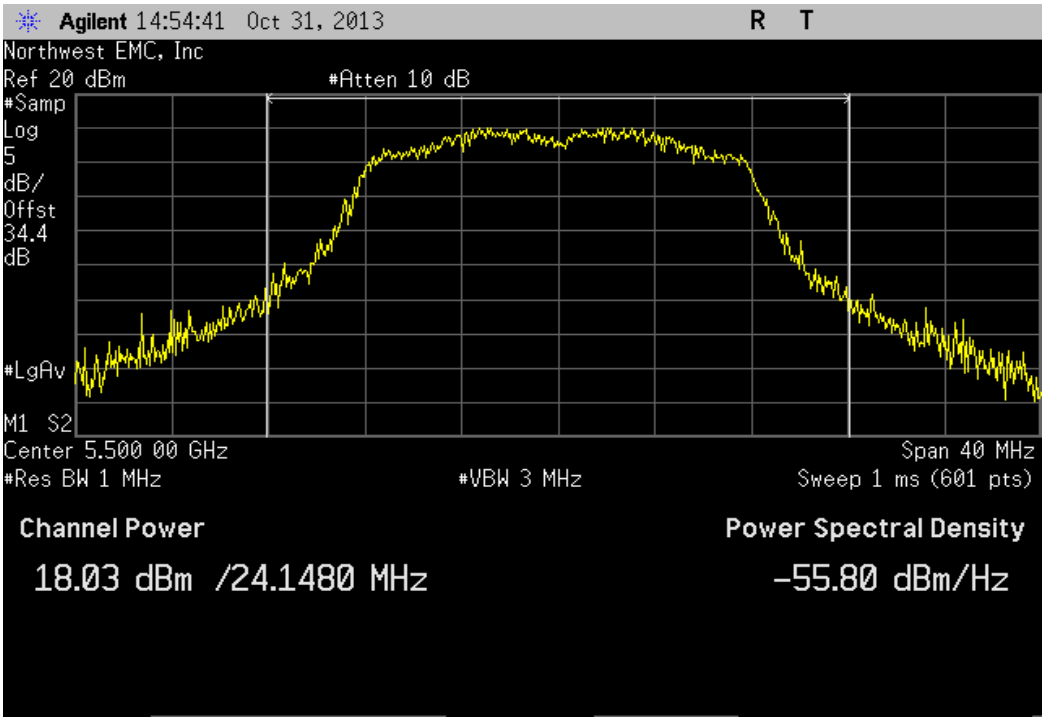
				Value	Limit	Result
				19.829 dBm	< 24 dBm	Pass



Peak Transmit Power

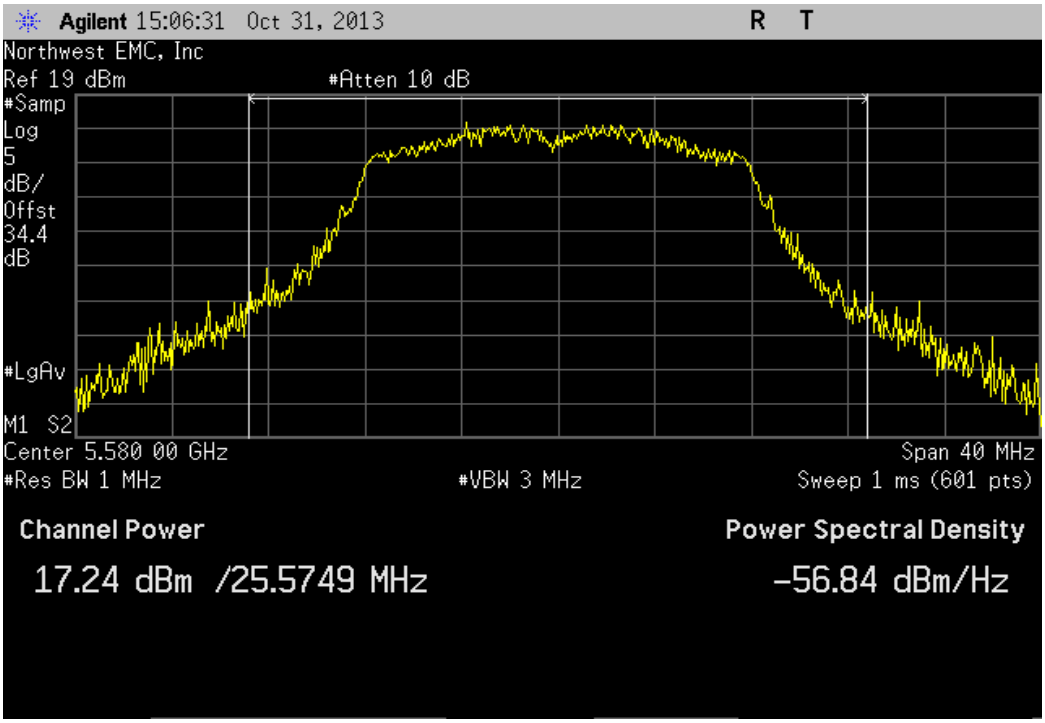
802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 100, Low Channel

				Value	Limit	Result
				18.03 dBm	< 24 dBm	Pass



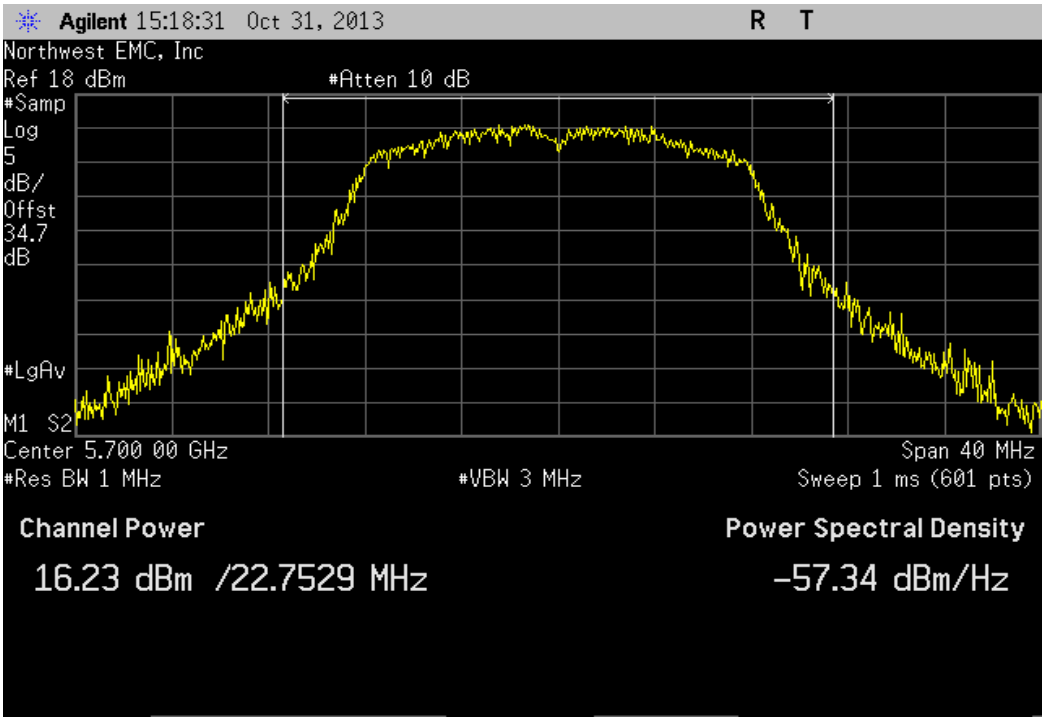
802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 116, Mid Channel

				Value	Limit	Result
				17.238 dBm	< 24 dBm	Pass



Peak Transmit Power

802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 140, High Channel						
				Value	Limit	Result
				16.234 dBm	< 24 dBm	Pass



Peak 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
Attenuator, 'Precision N'	S.M. Electronics	SA18N-06/SM4032	REE	12/11/2012	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	NCR	0
Power Meter	Gigatronics	8651A	SPM	1/9/2012	24
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	36
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
40GHz DC Block	Miteq	DCB4000	AMD	5/16/2013	12
Spectrum Analyzer	Agilent	E4446A	AAQ	2/7/2012	24

TEST DESCRIPTION

FCC KDB 789033 D01 General UNII Test Procedures Section E was followed. The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum. The data rate(s) listed in the datasheet were tested. 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.

Prior to measuring peak power spectral density, the transmission pulse duration (T) was measured. The transmission pulse duration and the associated data are found elsewhere in this test report.

The spectrum analyzer settings were as follows:

- The span was set to encompass entire emission bandwidth (B), centered on the transmit channel.
- RBW = 1 MHz, VBW ≥ 3 MHz
- Sample detector was used because Method SA-1 Alternate was used to measure the Maximum Conducted Output Power.
- Trace average 100 traces in power averaging mode (not video averaging).

The peak power spectral density (PPSD) was determined to be the highest level found across the emission in any 1 MHz band after 100 sweeps of power averaging (not video averaging).

Power Setting by Band:
5180MHz – 5240MHz, Power setting of 5000
5260MHz – 5320MHz, Power setting of 14000
5500MHz – 5700MHz, Power setting of 14000

Peak Power Spectral Density

EUT:	The EGG	Work Order:	INSD0001
Serial Number:	99	Date:	11/01/13
Customer:	Intel Corporation	Temperature:	22.2°C
Attendees:	None	Humidity:	42%
Project:	None	Barometric Pres.:	1015
Tested by:	Brandon Hobbs	Job Site:	EV06
Power:	4 VDC		

TEST SPECIFICATIONS	Test Method
FCC 15.407:2013	ANSI C63.10:2009

COMMENTS

The device was running at ≥ 99% duty cycle. The operating instructions for data rate and channel selection were provided by the client.

DEVIATIONS FROM TEST STANDARD

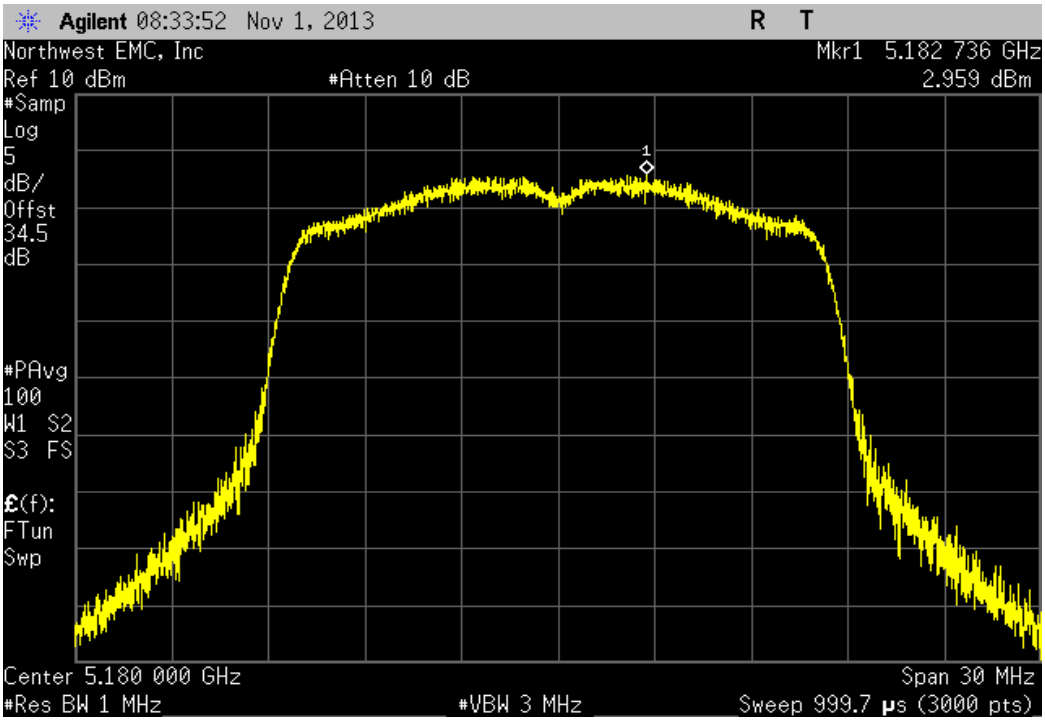
None

Configuration #	2	Signature

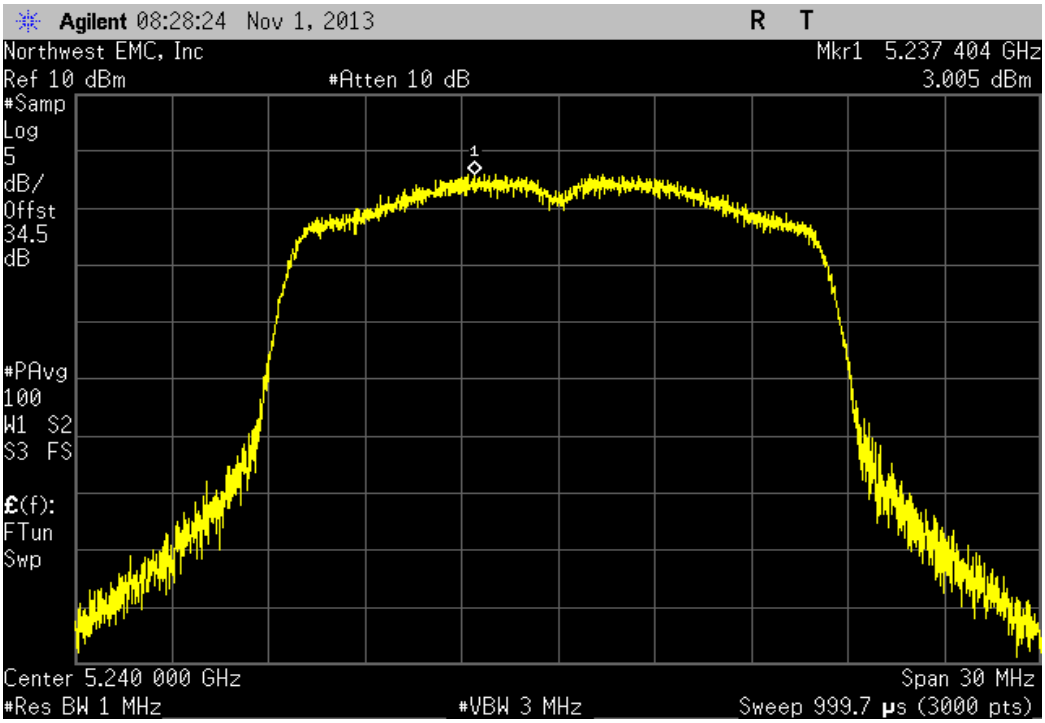
		Value (dBm / MHz)	Limit (dBm / MHz)	Result
802.11(a) 6 Mbps				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	2.959	4	Pass
	Channel 48, High Channel	3.005	4	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	10.438	11	Pass
	Channel 64, High Channel	10.356	11	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	8.65	11	Pass
	Channel 116, Mid Channel	7.648	11	Pass
	Channel 140, High Channel	6.784	11	Pass
802.11(a) 36 Mbps				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	3.049	4	Pass
	Channel 48, High Channel	3.665	4	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	10.514	11	Pass
	Channel 64, High Channel	10.659	11	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	8.719	11	Pass
	Channel 116, Mid Channel	7.79	11	Pass
	Channel 140, High Channel	6.765	11	Pass
802.11(a) 54 Mbps				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	2.818	4	Pass
	Channel 48, High Channel	3.358	4	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	10.701	11	Pass
	Channel 64, High Channel	10.228	11	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	8.759	11	Pass
	Channel 116, Mid Channel	7.68	11	Pass
	Channel 140, High Channel	6.977	11	Pass
802.11(n) MCS0				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	2.782	4	Pass
	Channel 48, High Channel	3.531	4	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	10.412	11	Pass
	Channel 64, High Channel	10.334	11	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	8.702	11	Pass
	Channel 116, Mid Channel	7.736	11	Pass
	Channel 140, High Channel	6.885	11	Pass
802.11(n) MCS7				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	2.815	4	Pass
	Channel 48, High Channel	3.479	4	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	10.145	11	Pass
	Channel 64, High Channel	10.24	11	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	8.392	11	Pass
	Channel 116, Mid Channel	7.446	11	Pass
	Channel 140, High Channel	6.583	11	Pass

Peak Power Spectral Density

802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				2.959	4	Pass

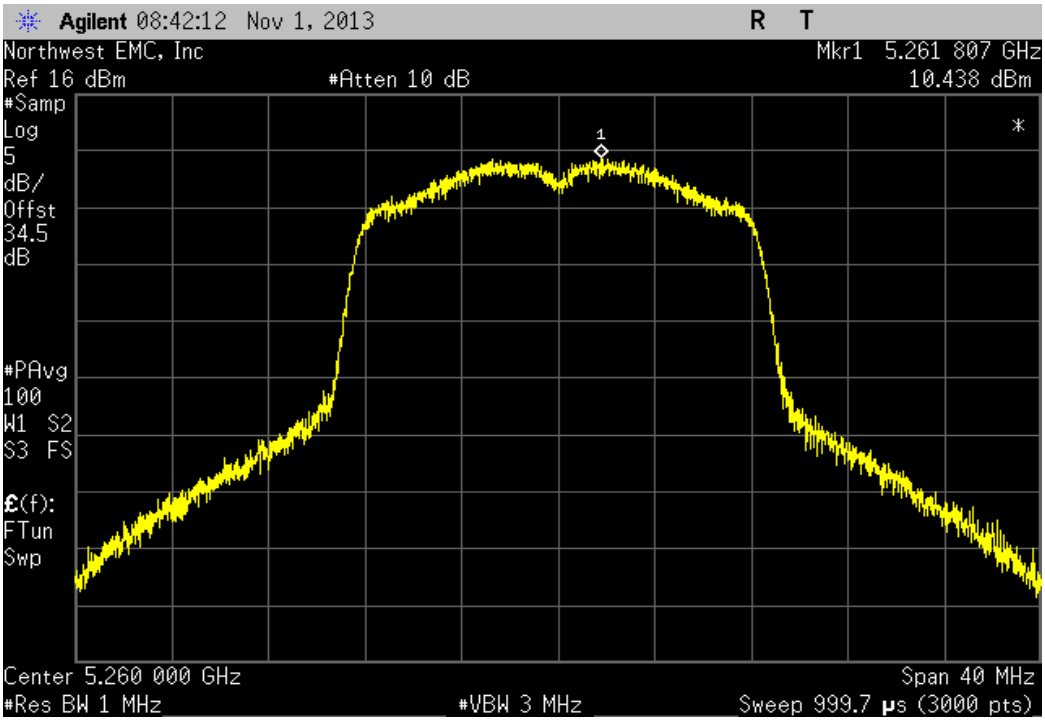


802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				3.005	4	Pass

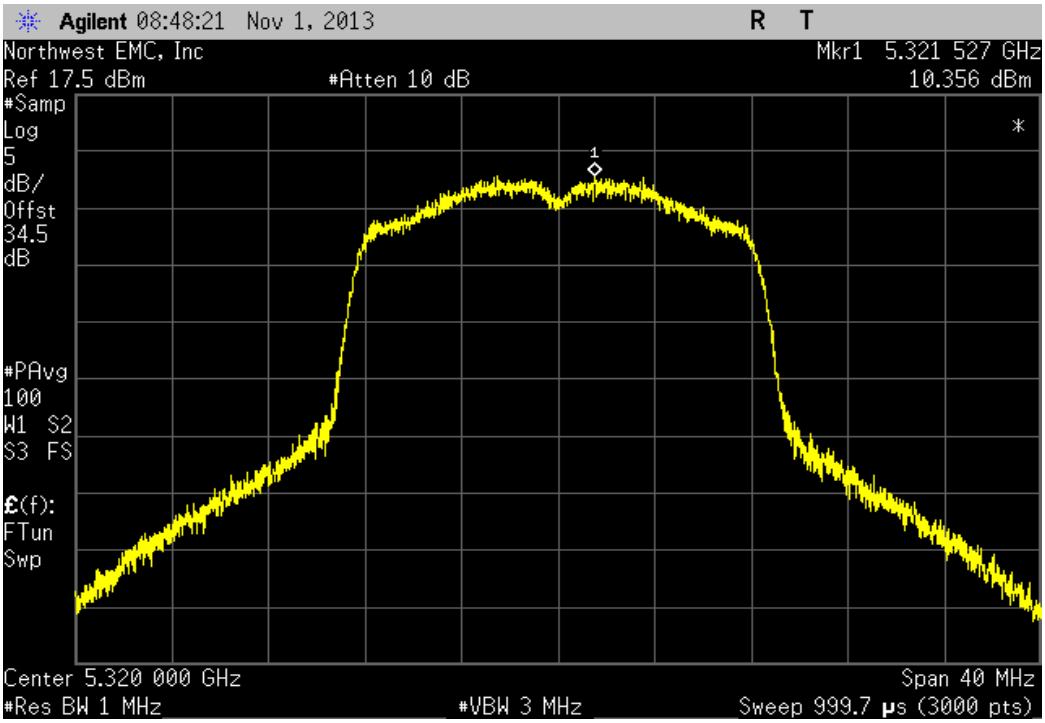


Peak Power Spectral Density

802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				10.438	11	Pass

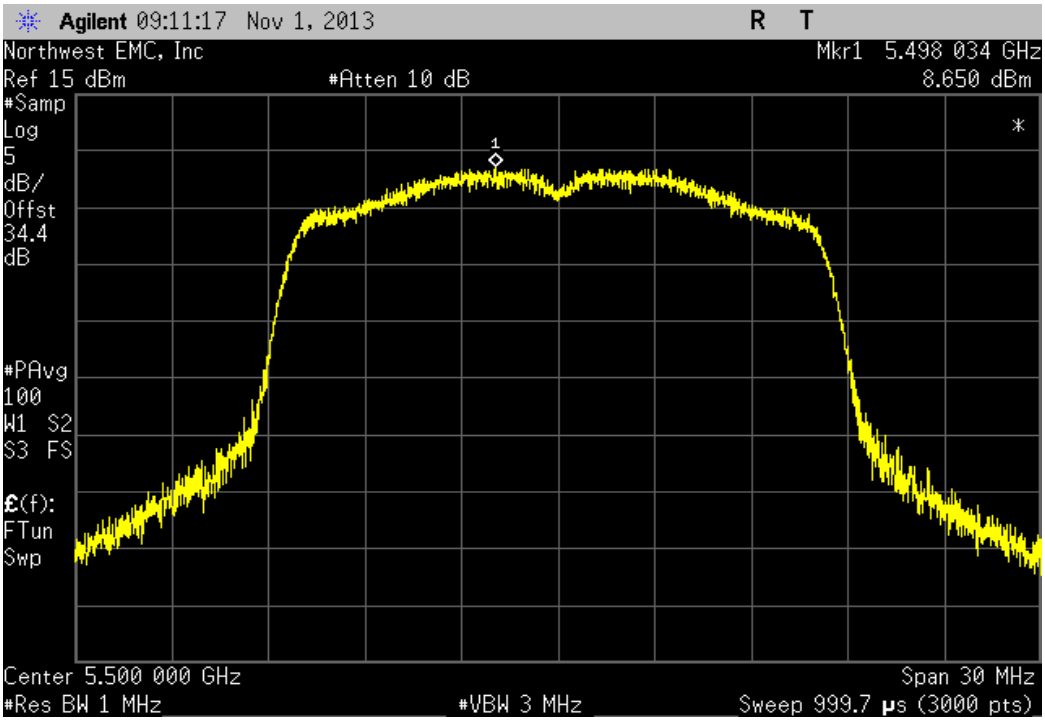


802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				10.356	11	Pass

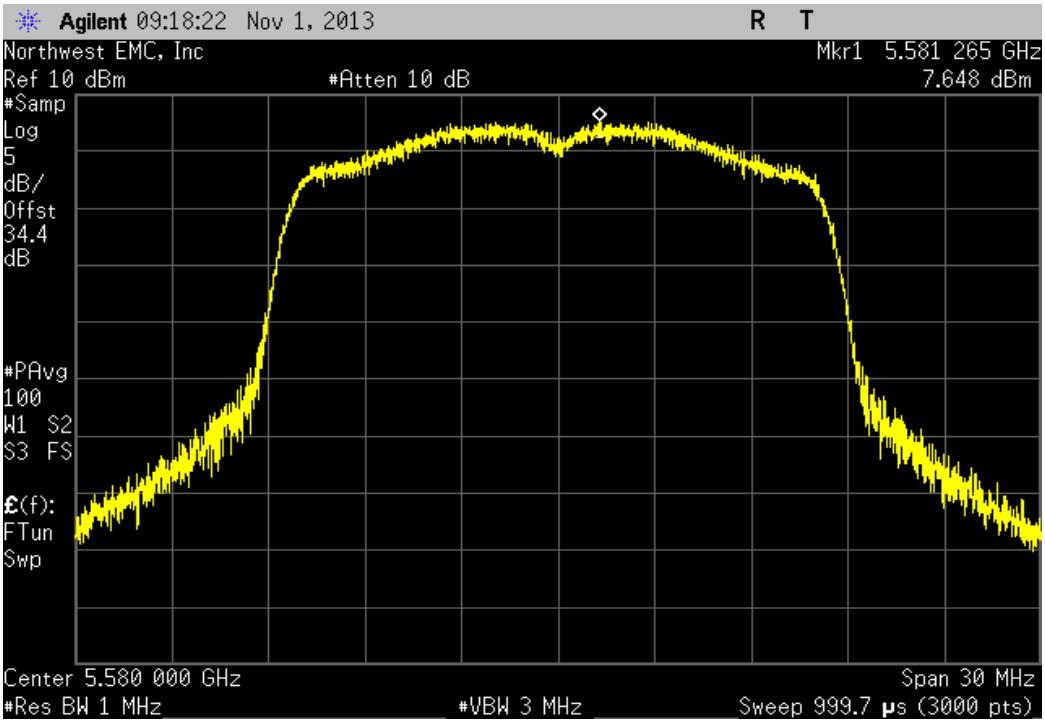


Peak Power Spectral Density

802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				8.65	11	Pass

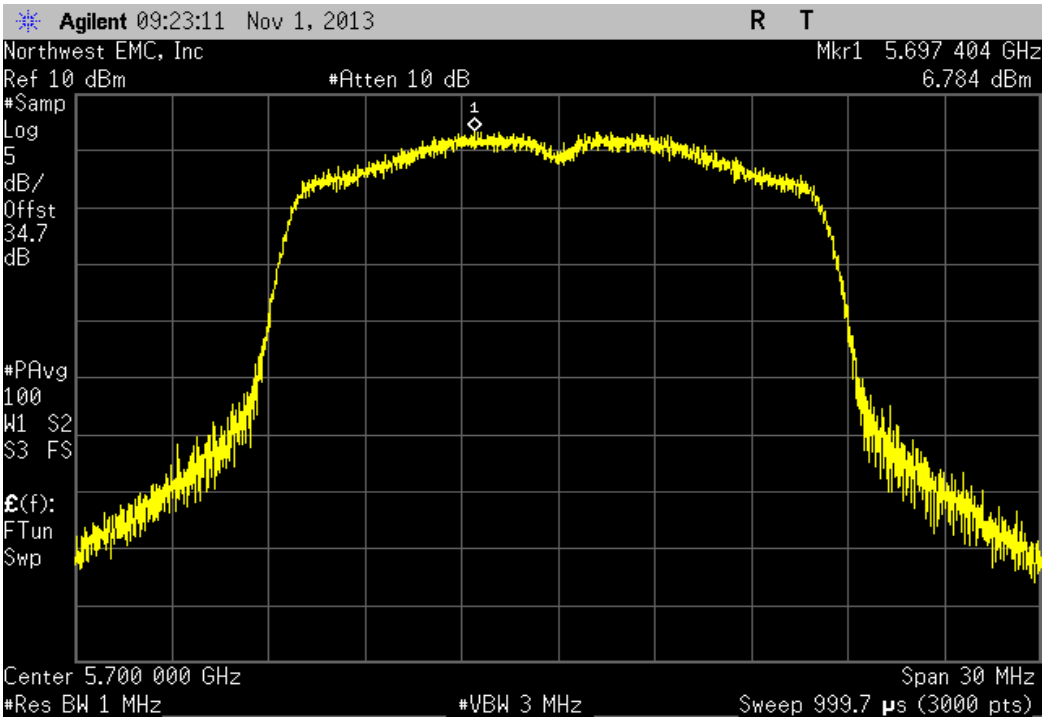


802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				7.648	11	Pass

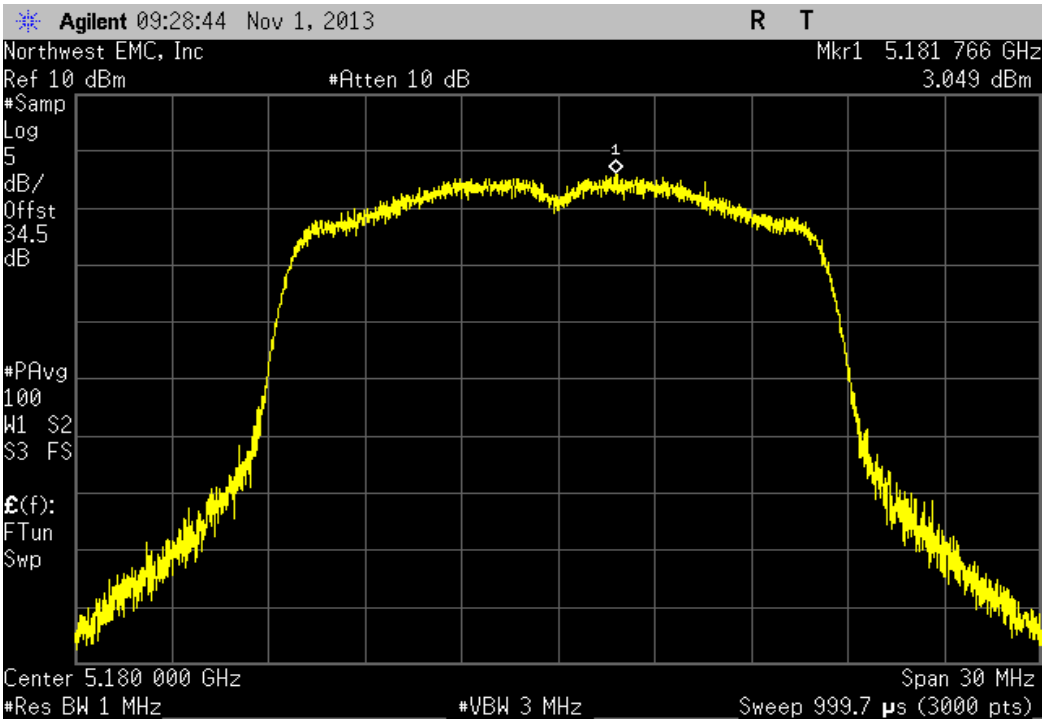


Peak Power Spectral Density

802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				6.784	11	Pass

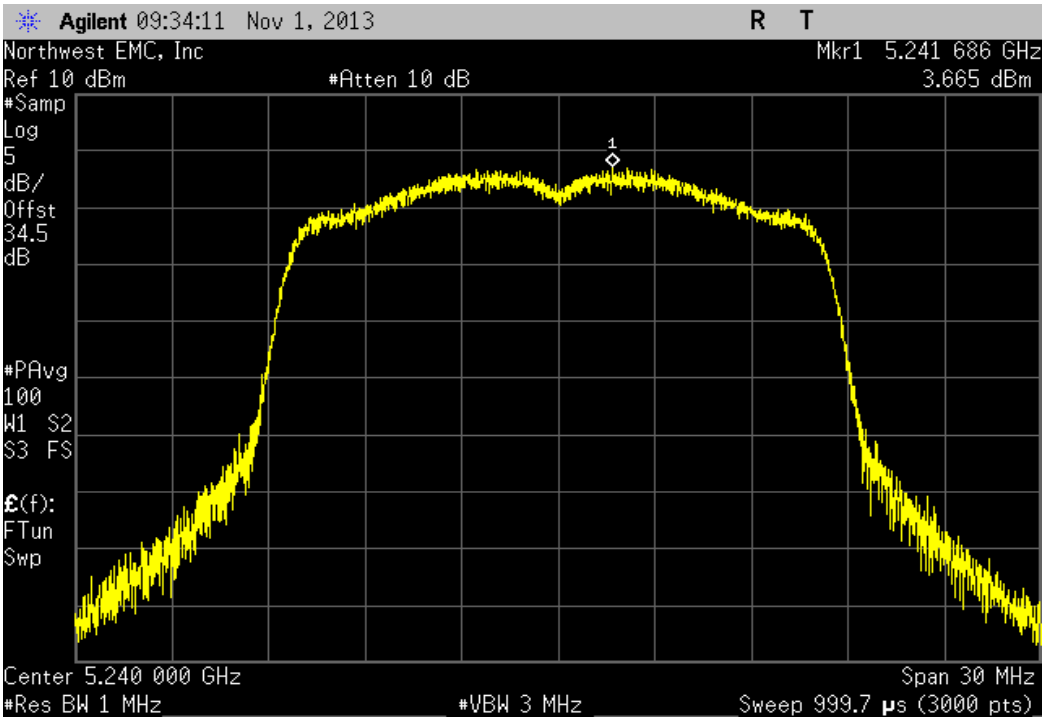


802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				3.049	4	Pass

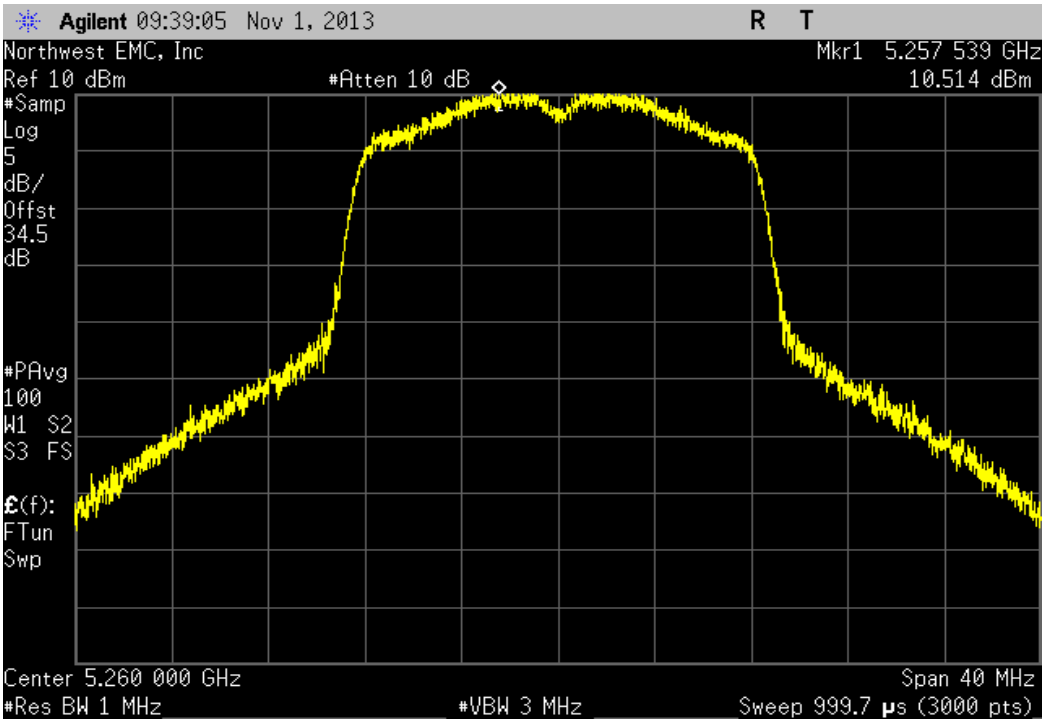


Peak Power Spectral Density

802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				3.665	4	Pass

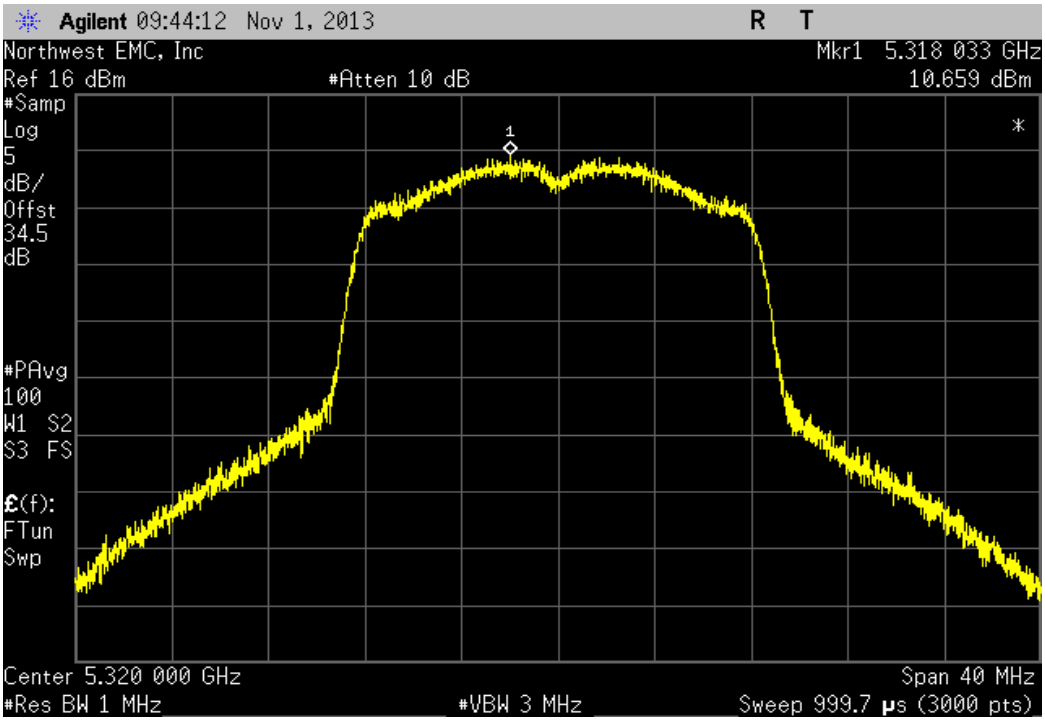


802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				10.514	11	Pass

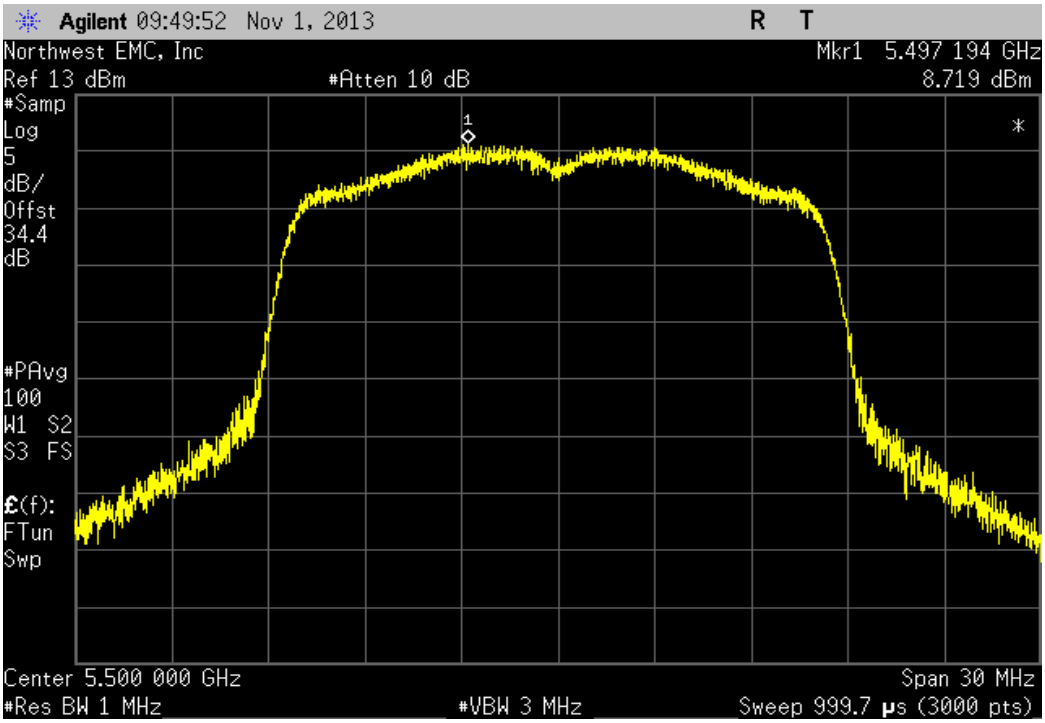


Peak Power Spectral Density

802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				10.659	11	Pass

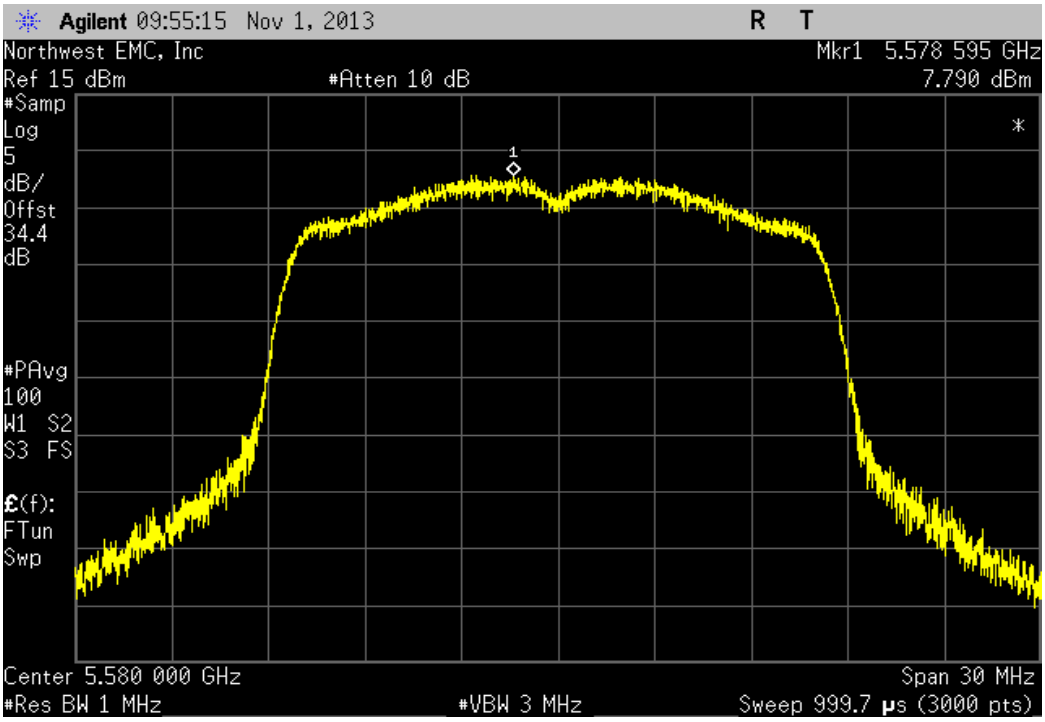


802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				8.719	11	Pass

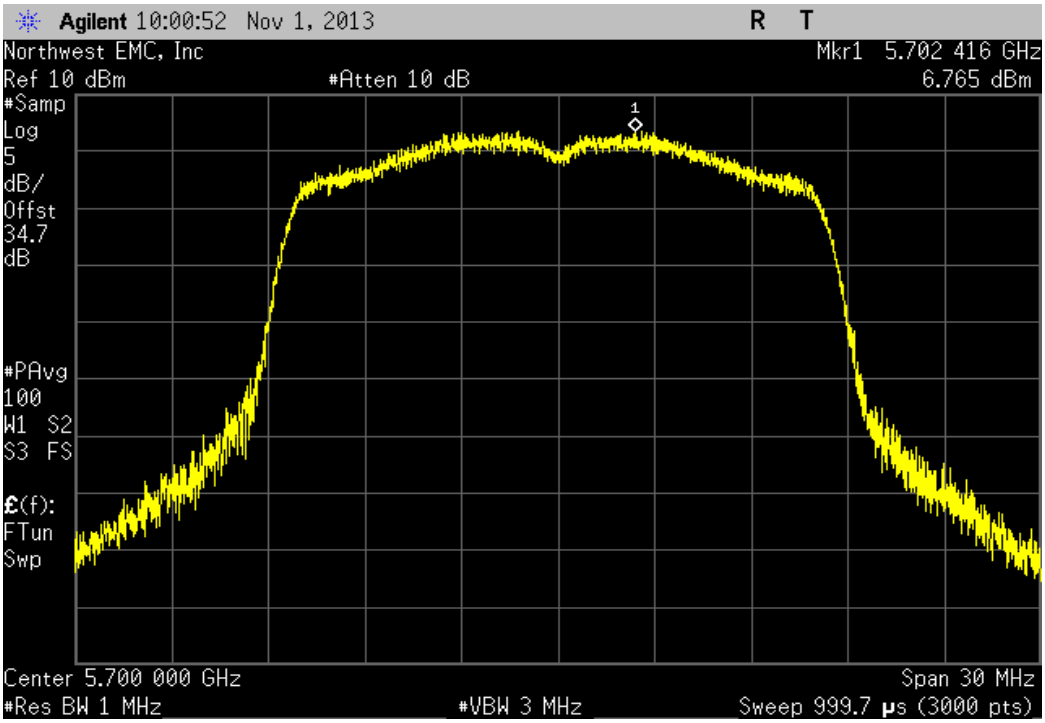


Peak Power Spectral Density

802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				7.79	11	Pass

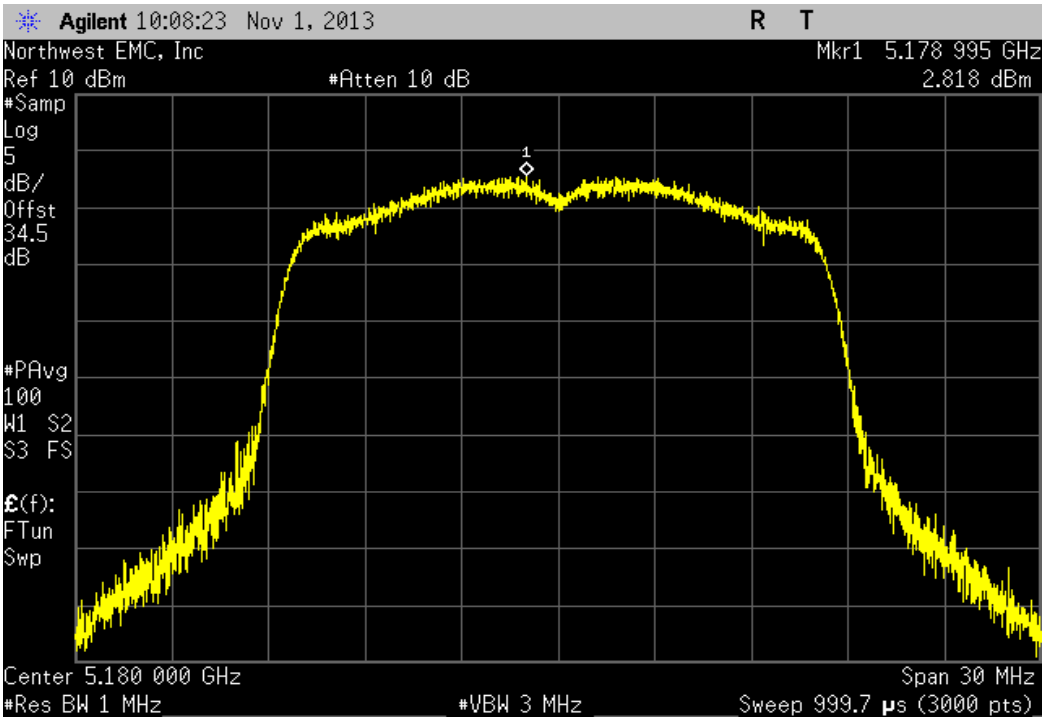


802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				6.765	11	Pass

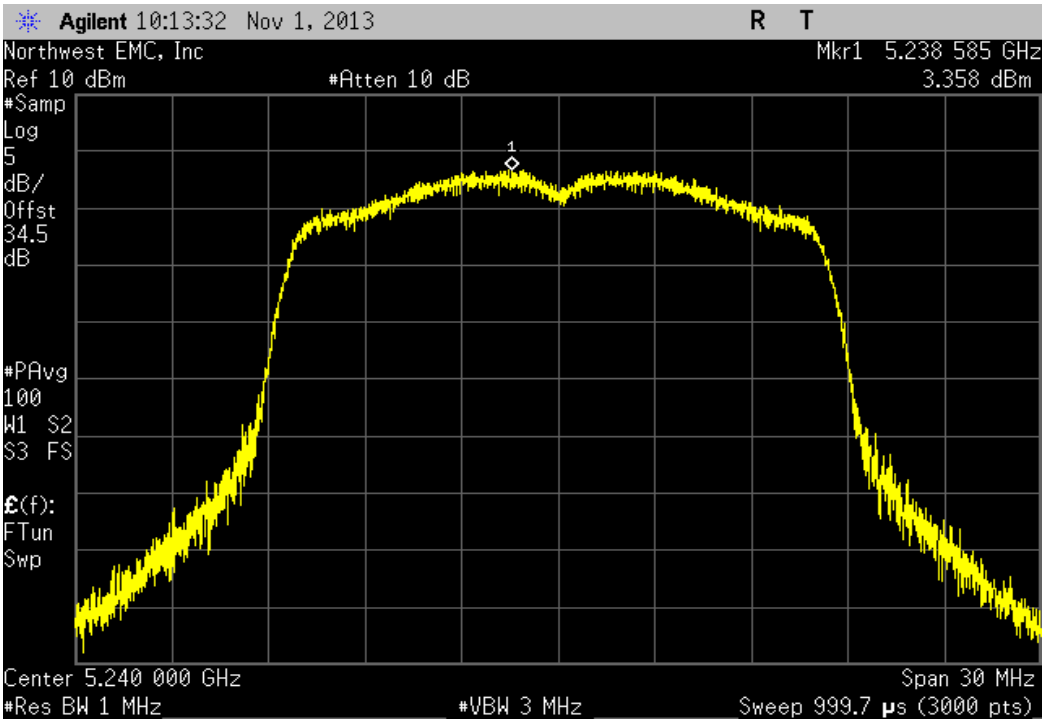


Peak Power Spectral Density

802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				2.818	4	Pass

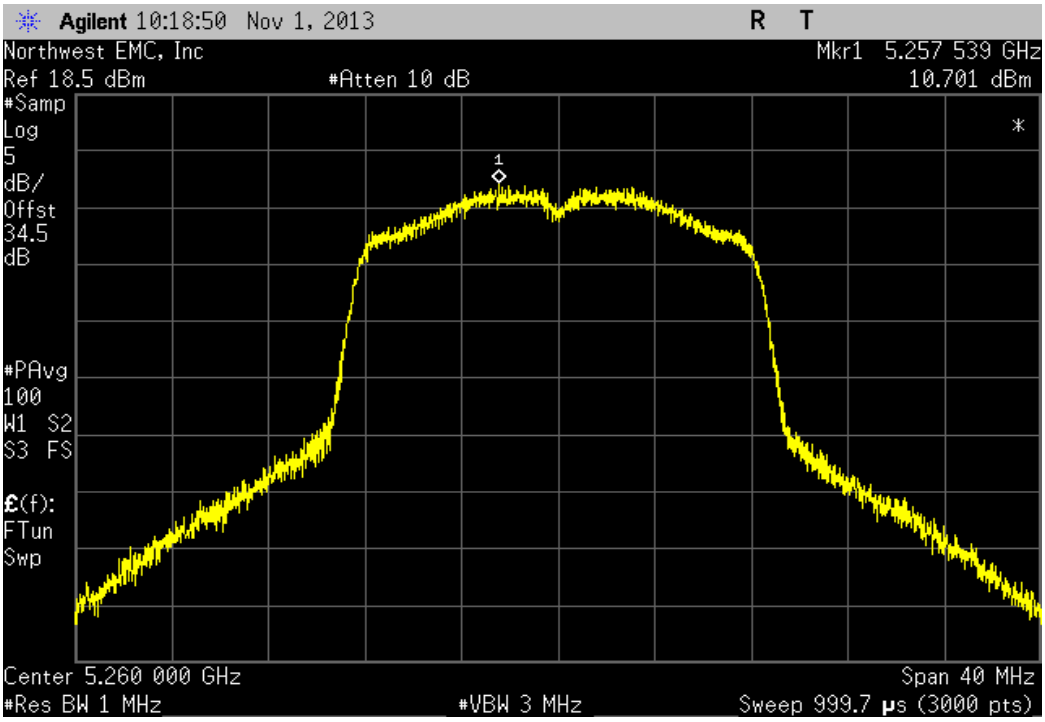


802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				3.358	4	Pass

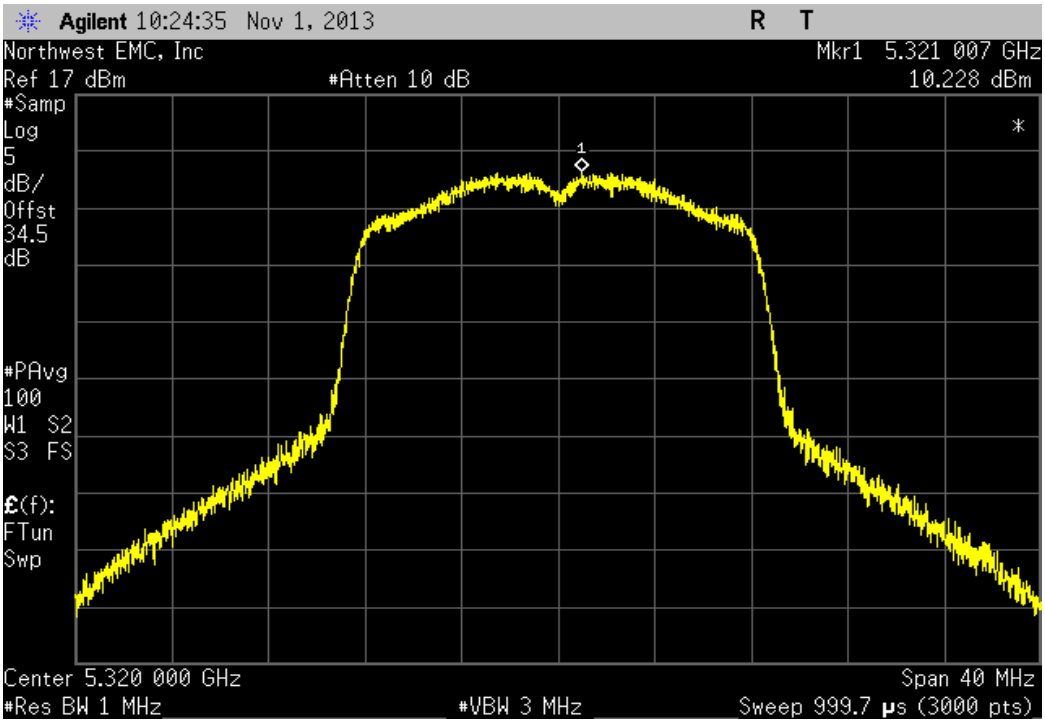


Peak Power Spectral Density

802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				10.701	11	Pass

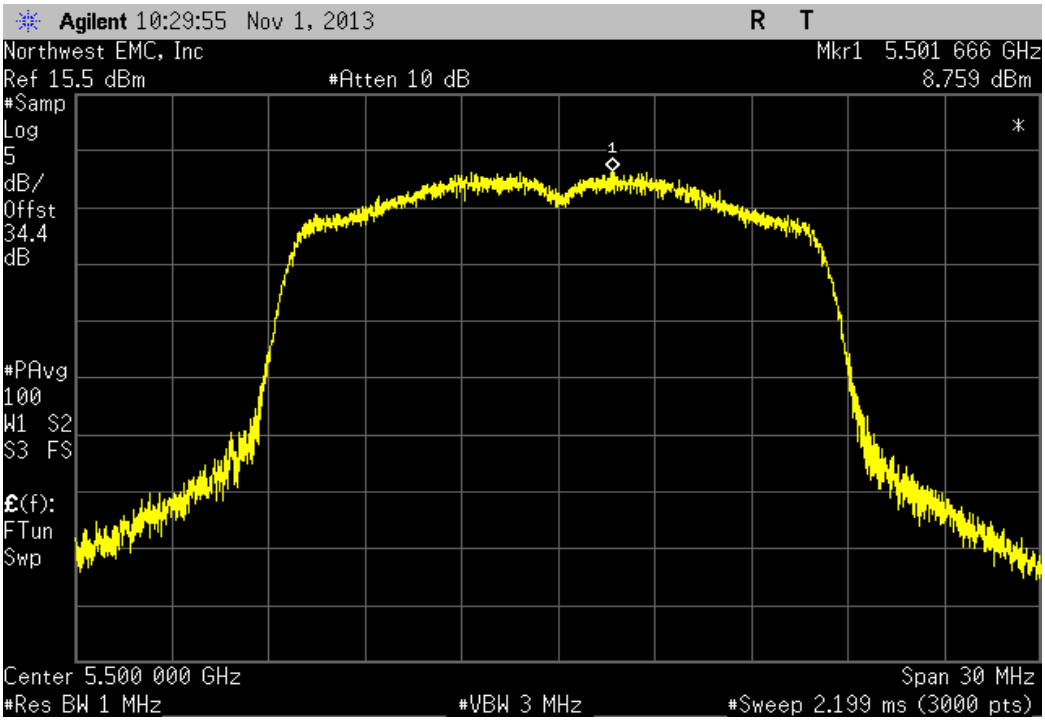


802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				10.228	11	Pass

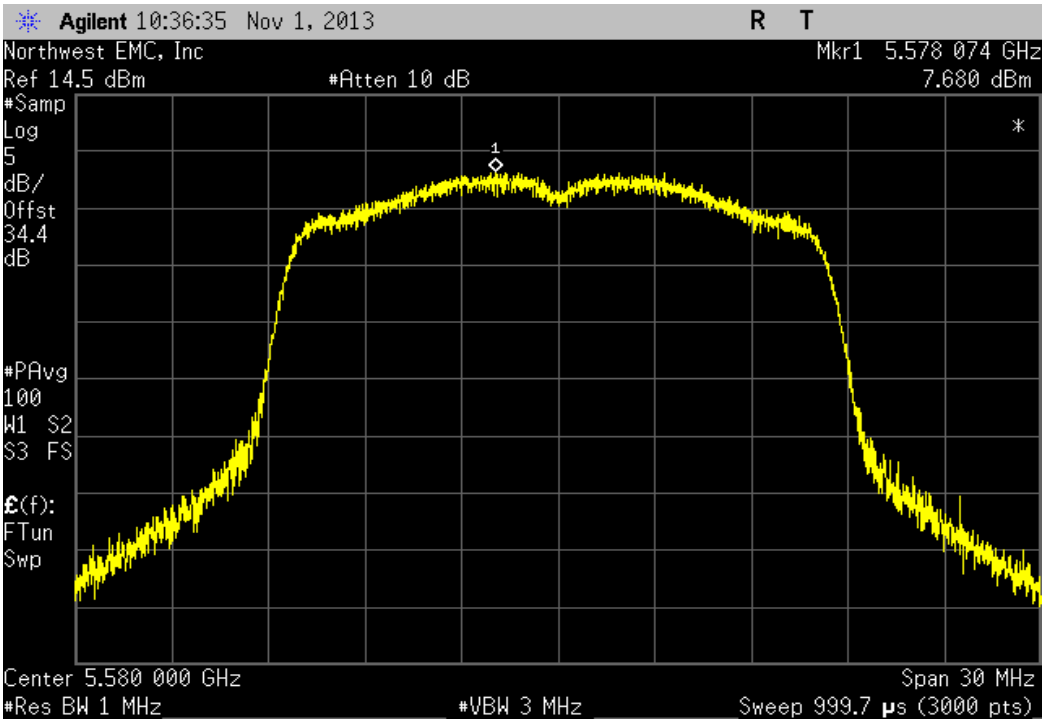


Peak Power Spectral Density

802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				8.759	11	Pass

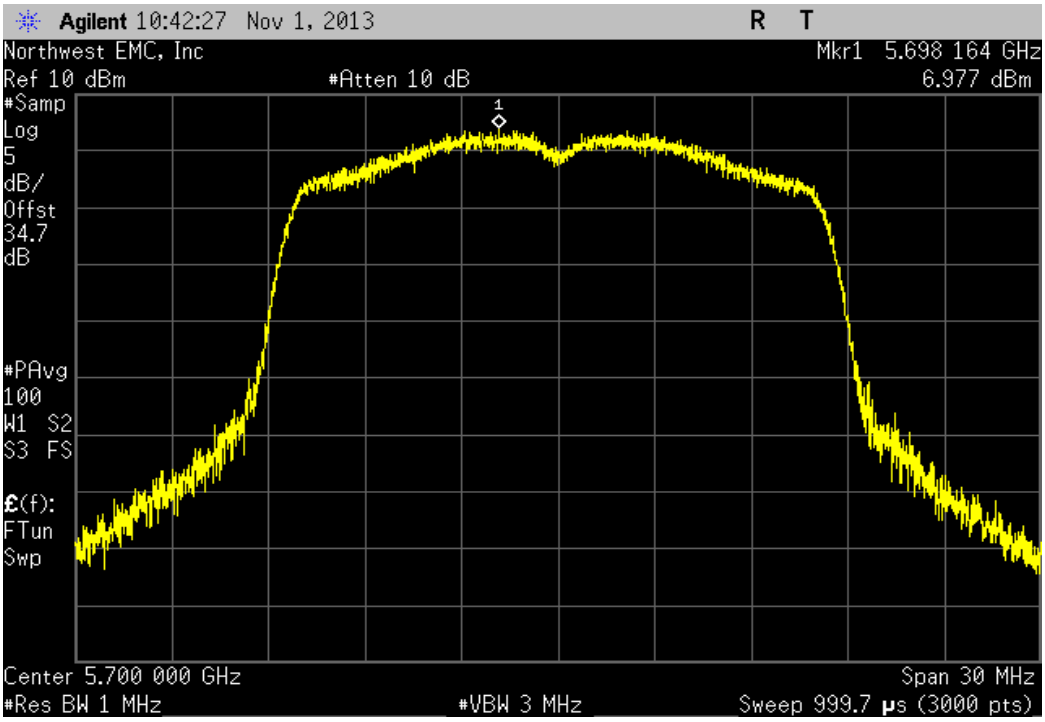


802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				7.68	11	Pass

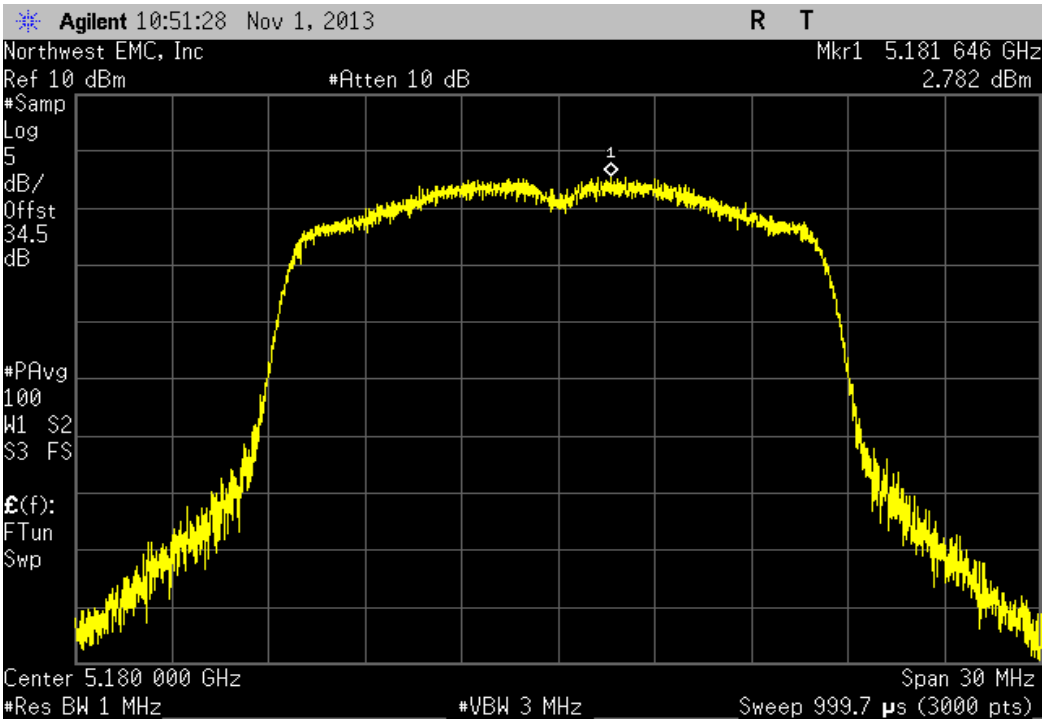


Peak Power Spectral Density

802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				6.977	11	Pass

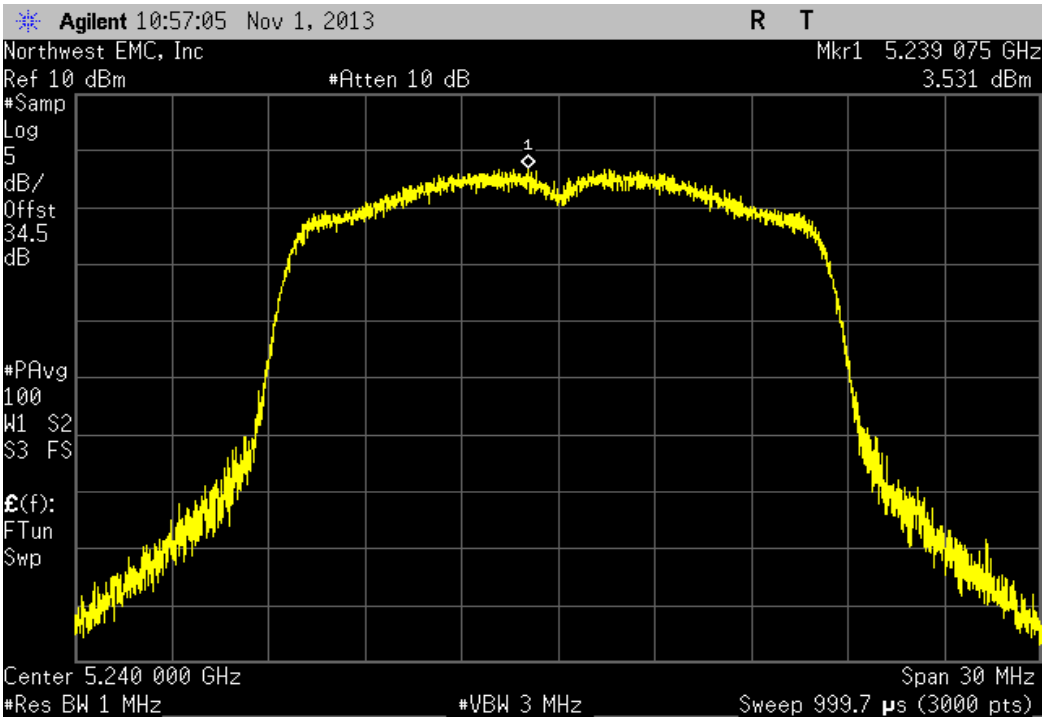


802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 36, Low Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				2.782	4	Pass

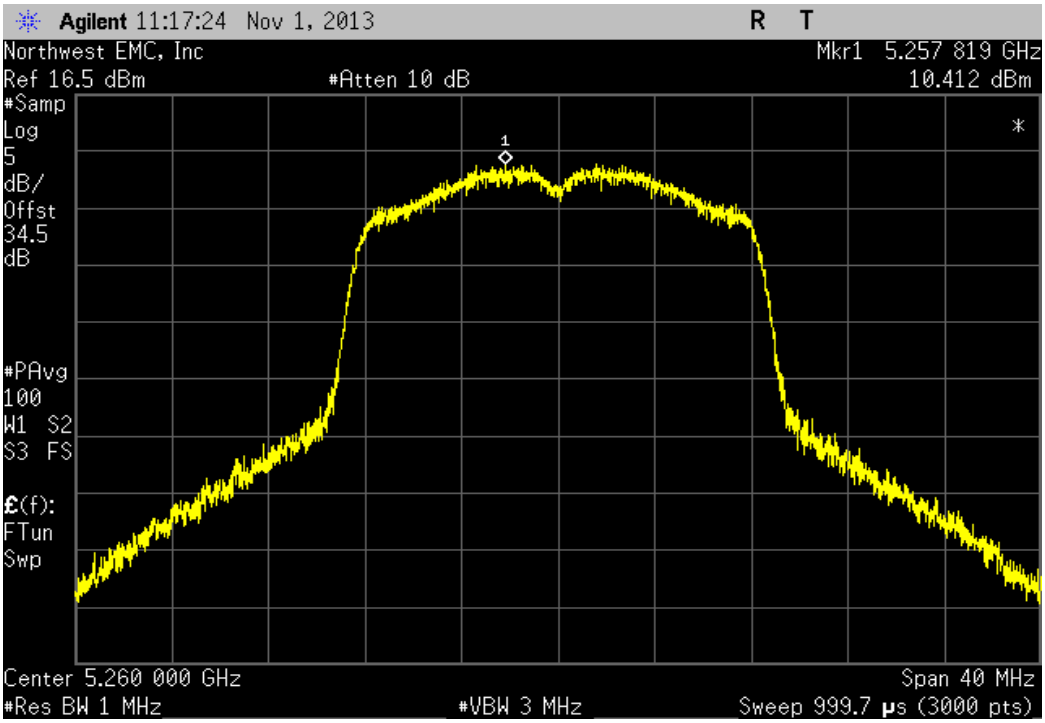


Peak Power Spectral Density

802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 48, High Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				3.531	4	Pass

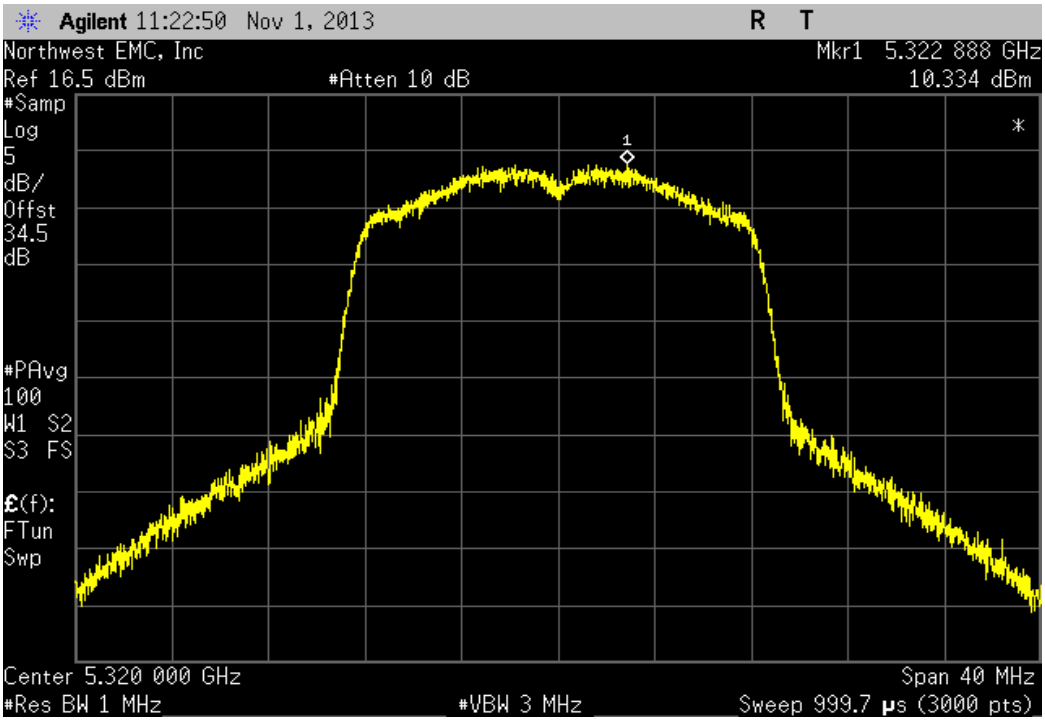


802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 52, Low Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				10.412	11	Pass

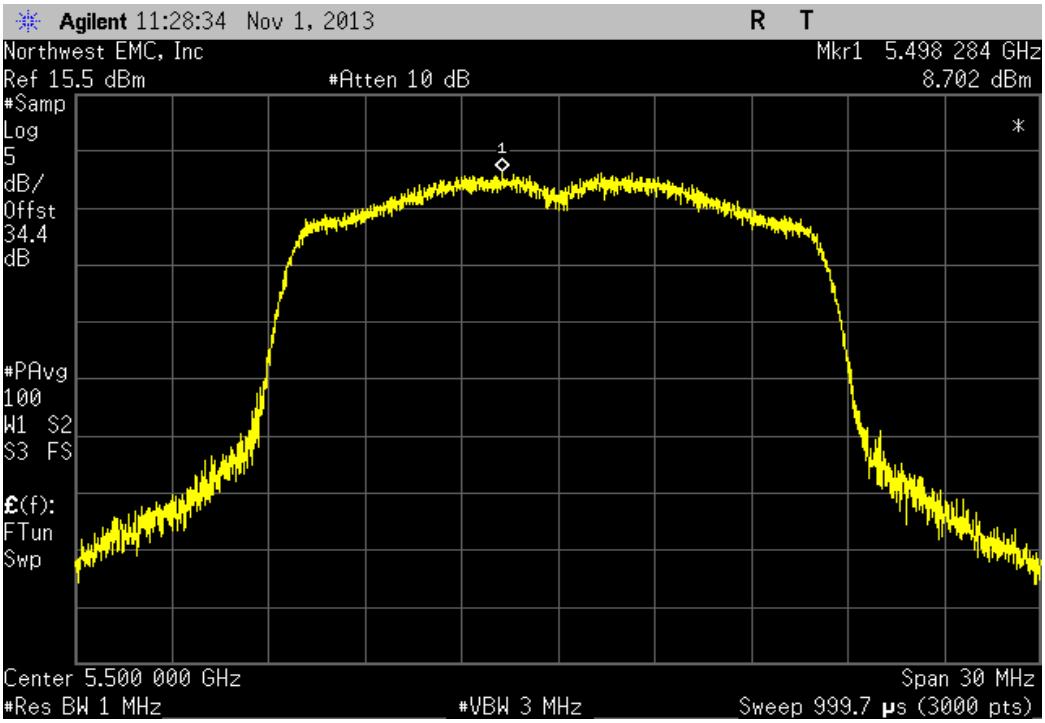


Peak Power Spectral Density

802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 64, High Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				10.334	11	Pass

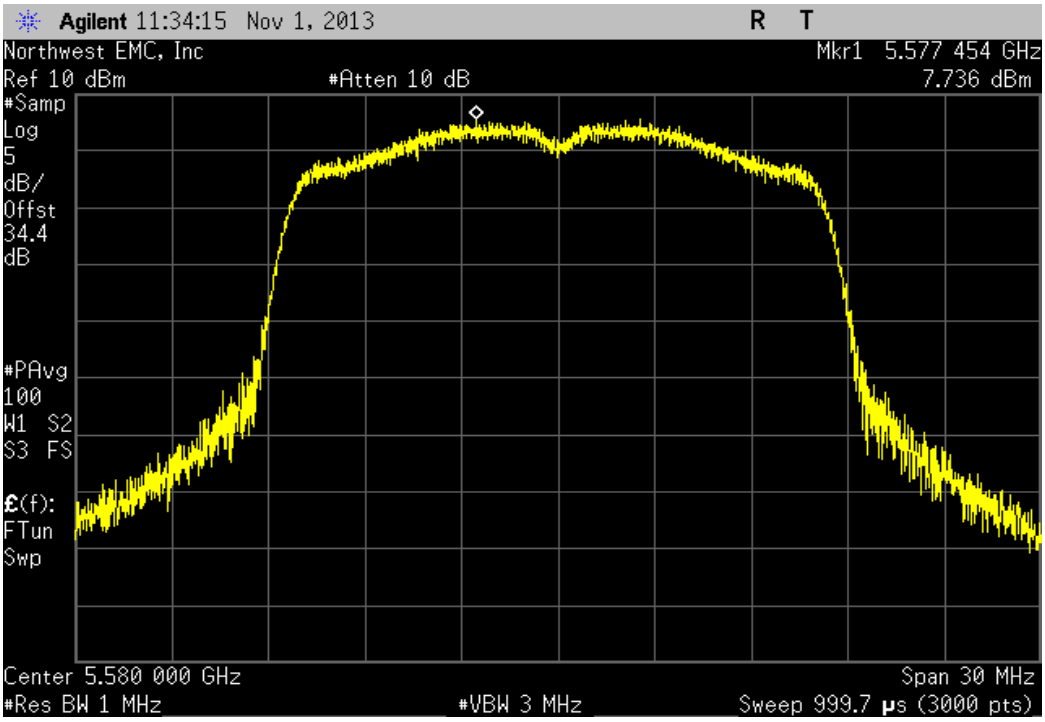


802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 100, Low Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				8.702	11	Pass

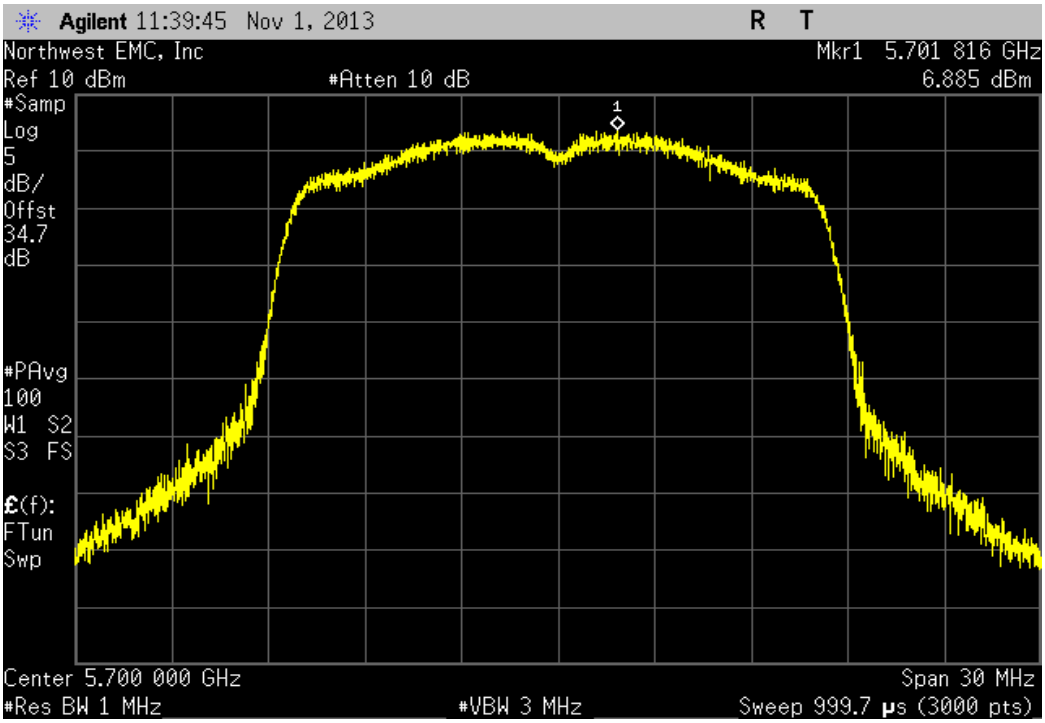


Peak Power Spectral Density

802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 116, Mid Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				7.736	11	Pass

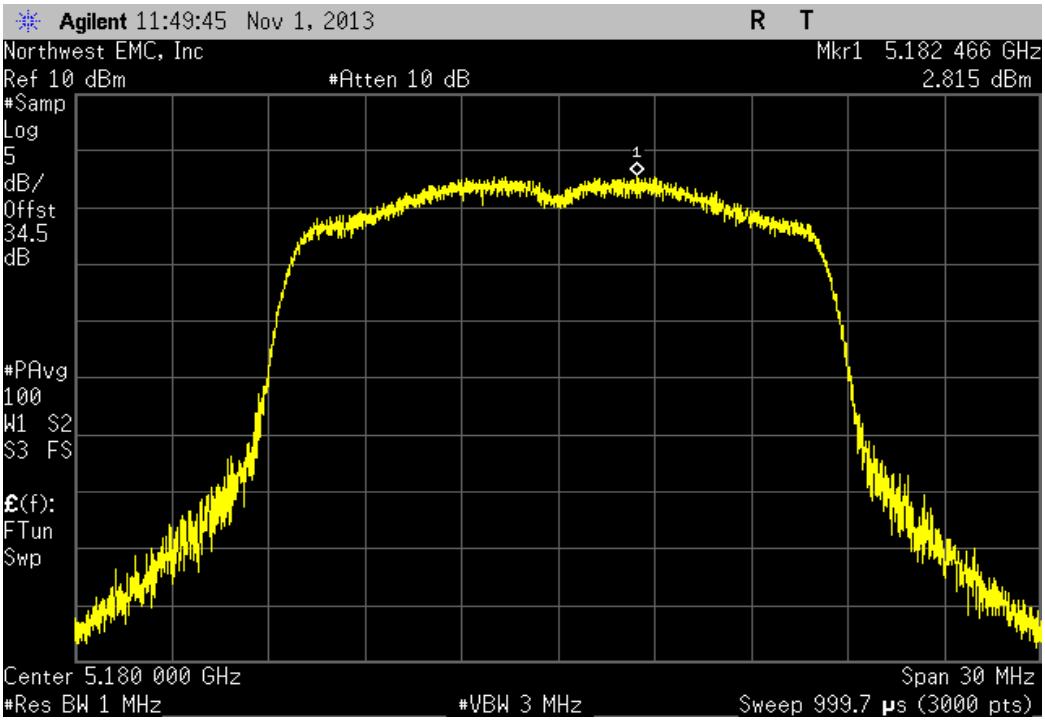


802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 140, High Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				6.885	11	Pass

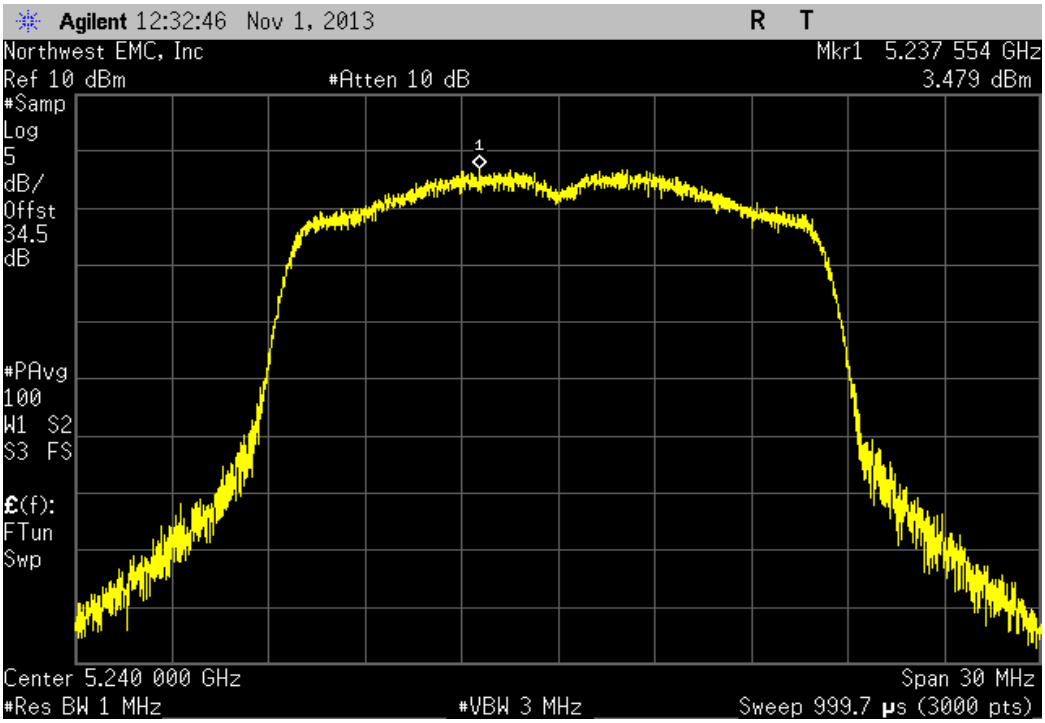


Peak Power Spectral Density

802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 36, Low Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				2.815	4	Pass

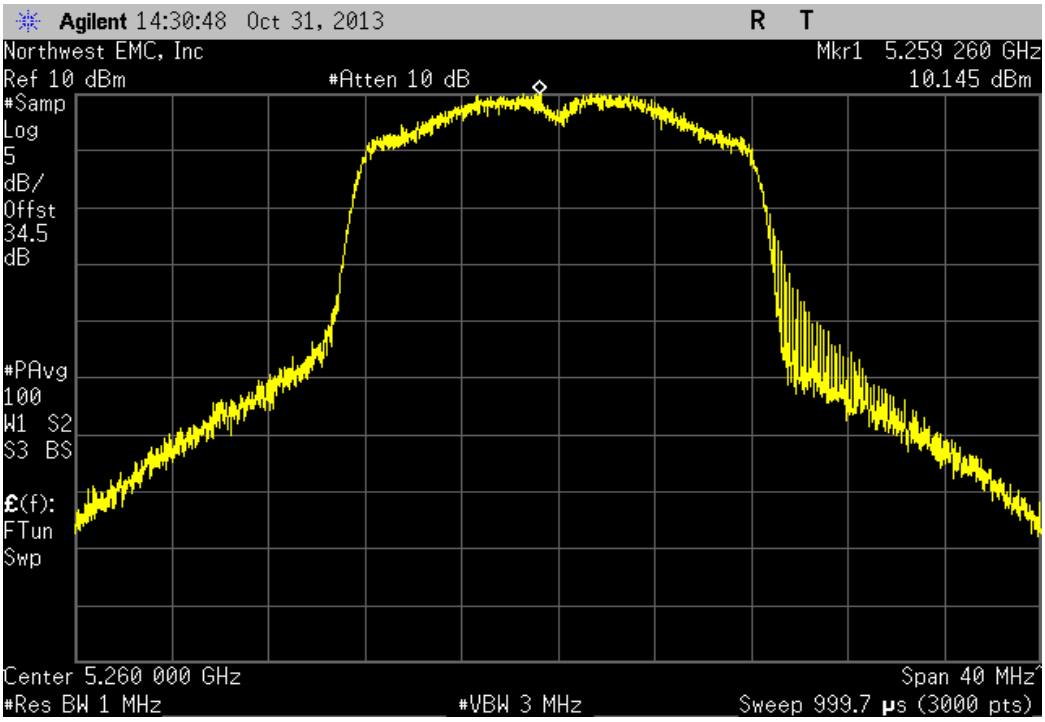


802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 48, High Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				3.479	4	Pass

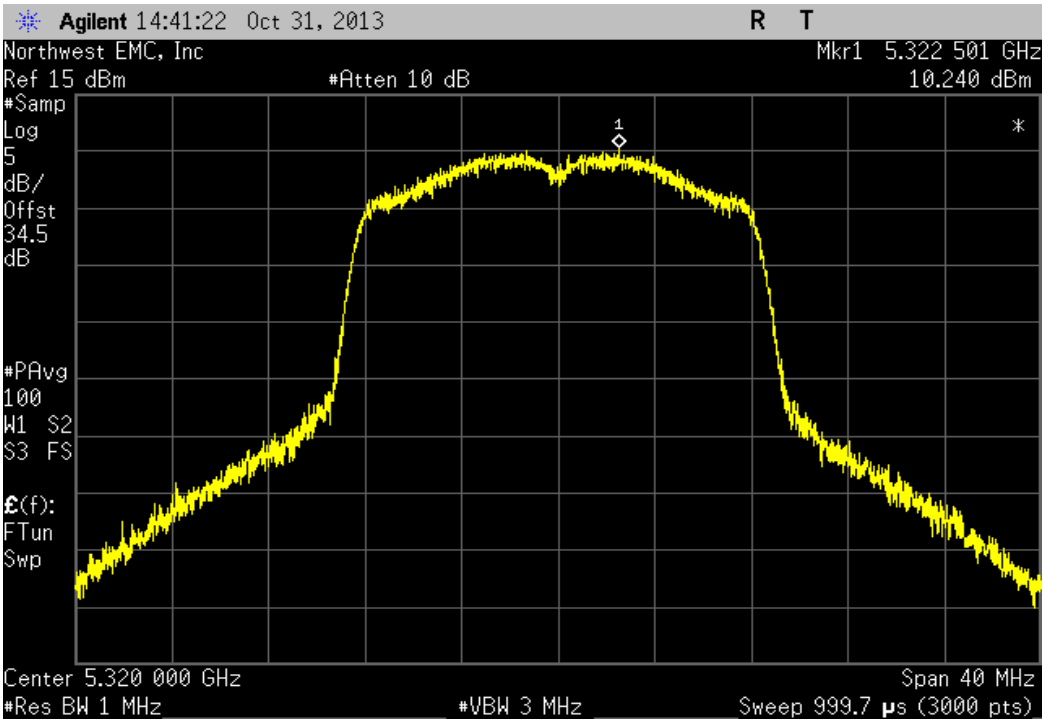


Peak Power Spectral Density

802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 52, Low Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				10.145	11	Pass

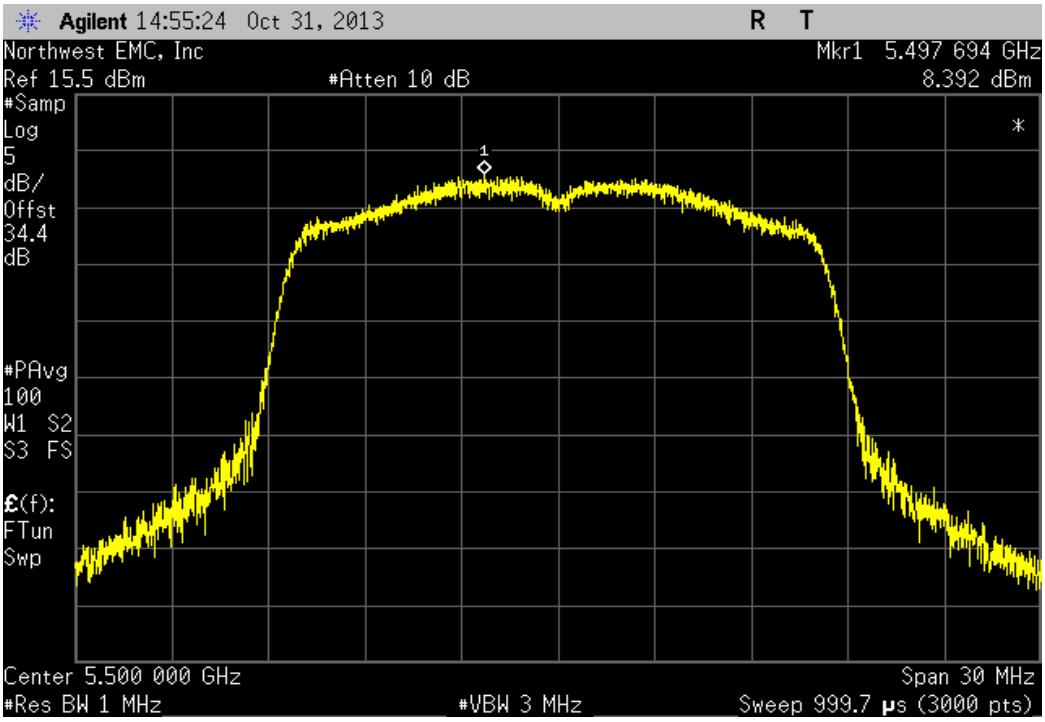


802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 64, High Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				10.24	11	Pass

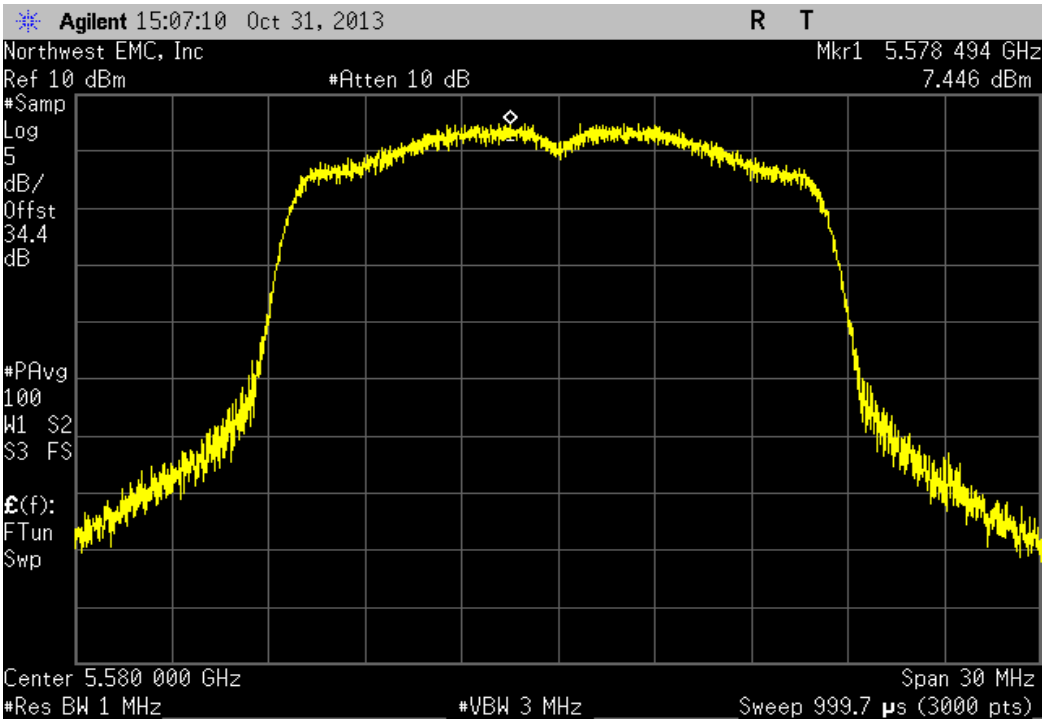


Peak Power Spectral Density

802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 100, Low Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				8.392	11	Pass

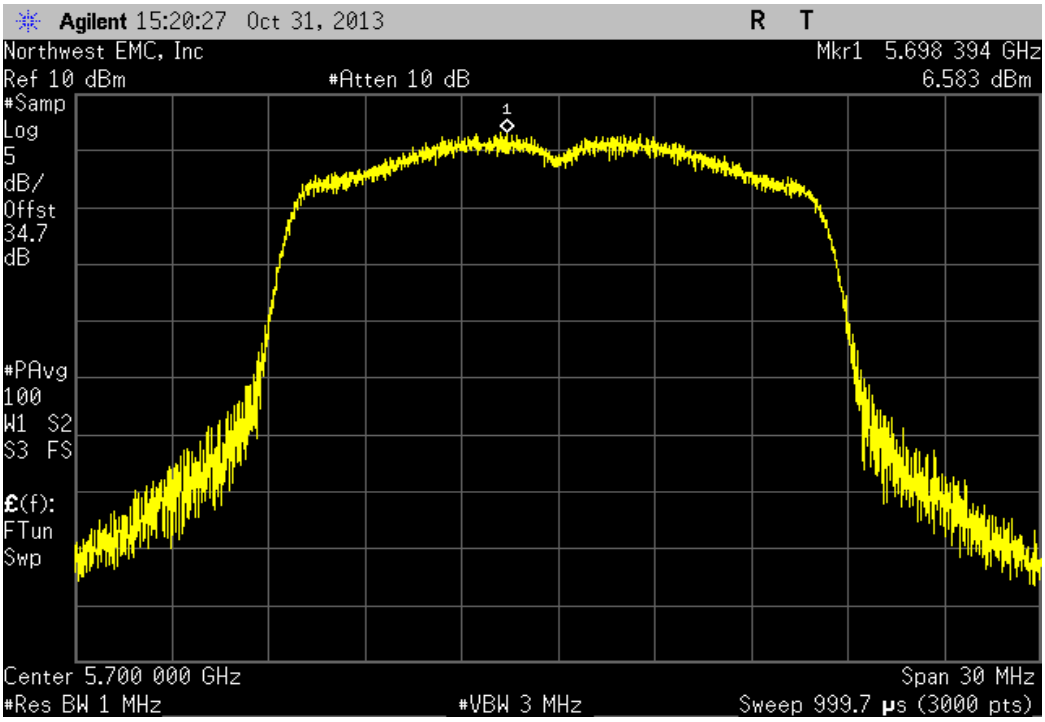


802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 116, Mid Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				7.446	11	Pass



Peak Power Spectral Density

802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 140, High Channel						
				Value (dBm / MHz)	Limit (dBm / MHz)	Result
				6.583	11	Pass



Emission 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
Attenuator, 'Precision N'	S.M. Electronics	SA18N-06/SM4032	REE	12/11/2012	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	NCR	0
Power Meter	Gigatronics	8651A	SPM	1/9/2012	24
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	36
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
40GHz DC Block	Miteq	DCB4000	AMD	5/16/2013	12
Spectrum Analyzer	Agilent	E4446A	AAQ	2/7/2012	24

TEST DESCRIPTION

FCC KDB 789033 D01 General UNII Test Procedures were followed.

The transmit frequencies and data rates listed in the datasheet were measured in each band utilized by the radio. 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 spectrum analyzer settings were as follows:

- RBW = Approx. 1% of the emission bandwidth (B). This was an iterative process to determine the RBW based on the emissions bandwidth (B).
- VBW= > RBW
- A peak detector was used
- Trace max hold.

The spectrum analyzer occupied bandwidth measurement function was then used to measure 26 dB emission bandwidth.

There is no required limit to be met in the rule part for this test. The purpose of the test is to both report the results as required by the KDB, and to utilize the emission bandwidth for setting the channel power integration bandwidth during conducted output power testing.

Power Setting by Band:
5180MHz – 5240MHz, Power setting of 5000

Emission Bandwidth

EUT:	The EGG	Work Order:	INSD0001
Serial Number:	99	Date:	11/01/13
Customer:	Intel Corporation	Temperature:	22.2°C
Attendees:	None	Humidity:	42%
Project:	None	Barometric Pres.:	1015
Tested by:	Brandon Hobbs	Job Site:	EV06
Power:	4 VDC		

TEST SPECIFICATIONS	Test Method
FCC 15.407:2013	ANSI C63.10:2009

COMMENTS

The device was running at ≥ 99% duty cycle. The operating instructions for data rate and channel selection were provided by the client.

DEVIATIONS FROM TEST STANDARD

None

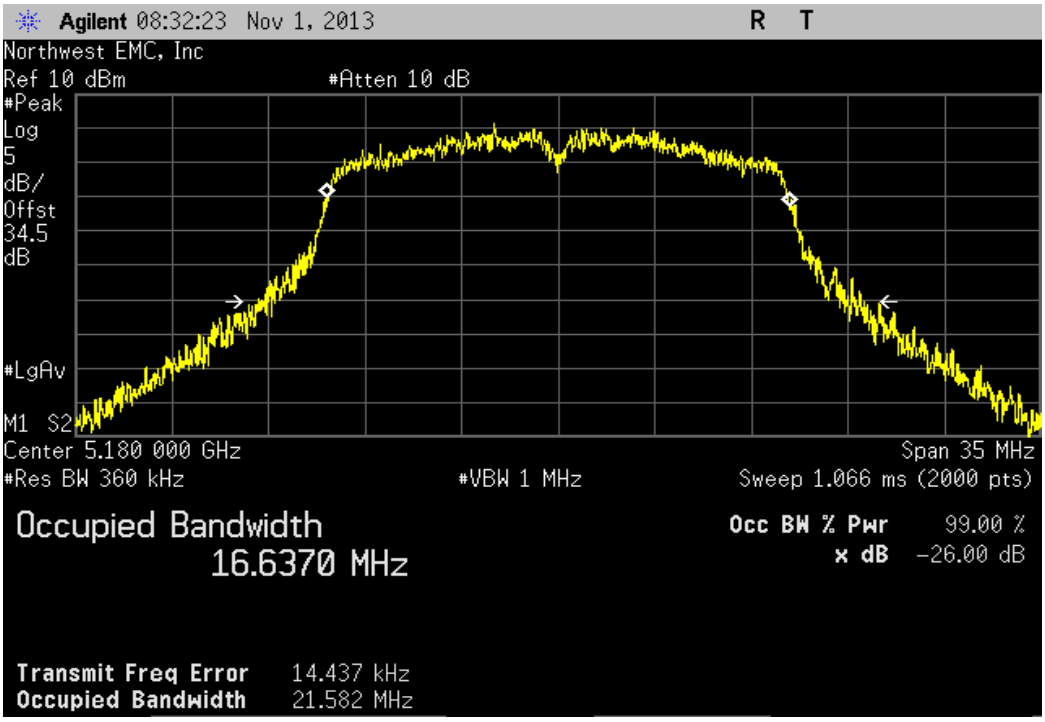
Configuration #	2	Signature

		Value	Limit	Result
802.11(a) 6 Mbps				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	21.582 MHz	> 500 kHz	Pass
	Channel 48, High Channel	22.403 MHz	> 500 kHz	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	32.85 MHz	> 500 kHz	Pass
	Channel 64, High Channel	31.993 MHz	> 500 kHz	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	24.624 MHz	> 500 kHz	Pass
	Channel 116, Mid Channel	24.205 MHz	> 500 kHz	Pass
	Channel 140, High Channel	23.147 MHz	> 500 kHz	Pass
802.11(a) 36 Mbps				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	22.817 MHz	> 500 kHz	Pass
	Channel 48, High Channel	21.693 MHz	> 500 kHz	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	34.733 MHz	> 500 kHz	Pass
	Channel 64, High Channel	31.724 MHz	> 500 kHz	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	25.981 MHz	> 500 kHz	Pass
	Channel 116, Mid Channel	24.059 MHz	> 500 kHz	Pass
	Channel 140, High Channel	24.302 MHz	> 500 kHz	Pass
802.11(a) 54 Mbps				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	22.092 MHz	> 500 kHz	Pass
	Channel 48, High Channel	22.199 MHz	> 500 kHz	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	31.457 MHz	> 500 kHz	Pass
	Channel 64, High Channel	30.503 MHz	> 500 kHz	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	28.671 MHz	> 500 kHz	Pass
	Channel 116, Mid Channel	24.345 MHz	> 500 kHz	Pass
	Channel 140, High Channel	23.248 MHz	> 500 kHz	Pass
802.11(n) MCS0				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	22.91 MHz	> 500 kHz	Pass
	Channel 48, High Channel	22.729 MHz	> 500 kHz	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	31.928 MHz	> 500 kHz	Pass
	Channel 64, High Channel	31.412 MHz	> 500 kHz	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	25.686 MHz	> 500 kHz	Pass
	Channel 116, Mid Channel	25.375 MHz	> 500 kHz	Pass
	Channel 140, High Channel	22.691 MHz	> 500 kHz	Pass
802.11(n) MCS7				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	21.947 MHz	> 500 kHz	Pass
	Channel 48, High Channel	22.066 MHz	> 500 kHz	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	30.395 MHz	> 500 kHz	Pass
	Channel 64, High Channel	30.711 MHz	> 500 kHz	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	24.148 MHz	> 500 kHz	Pass
	Channel 116, Mid Channel	25.575 MHz	> 500 kHz	Pass
	Channel 140, High Channel	22.753 MHz	> 500 kHz	Pass

Emission Bandwidth

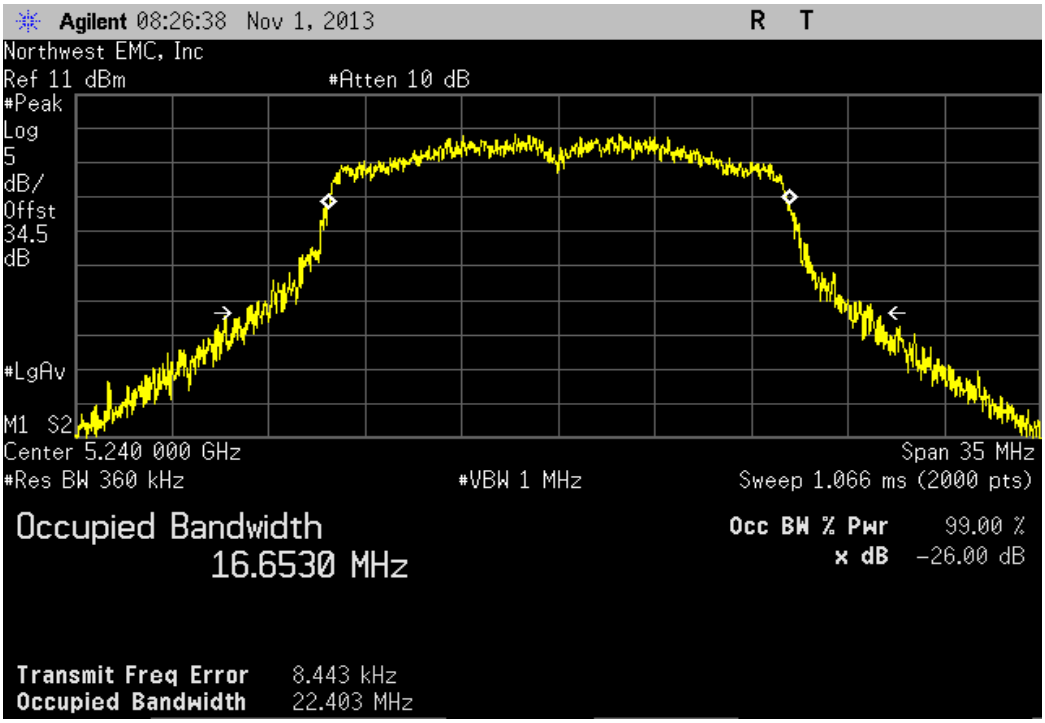
802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel

				Value	Limit	Result
				21.582 MHz	> 500 kHz	Pass



802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel

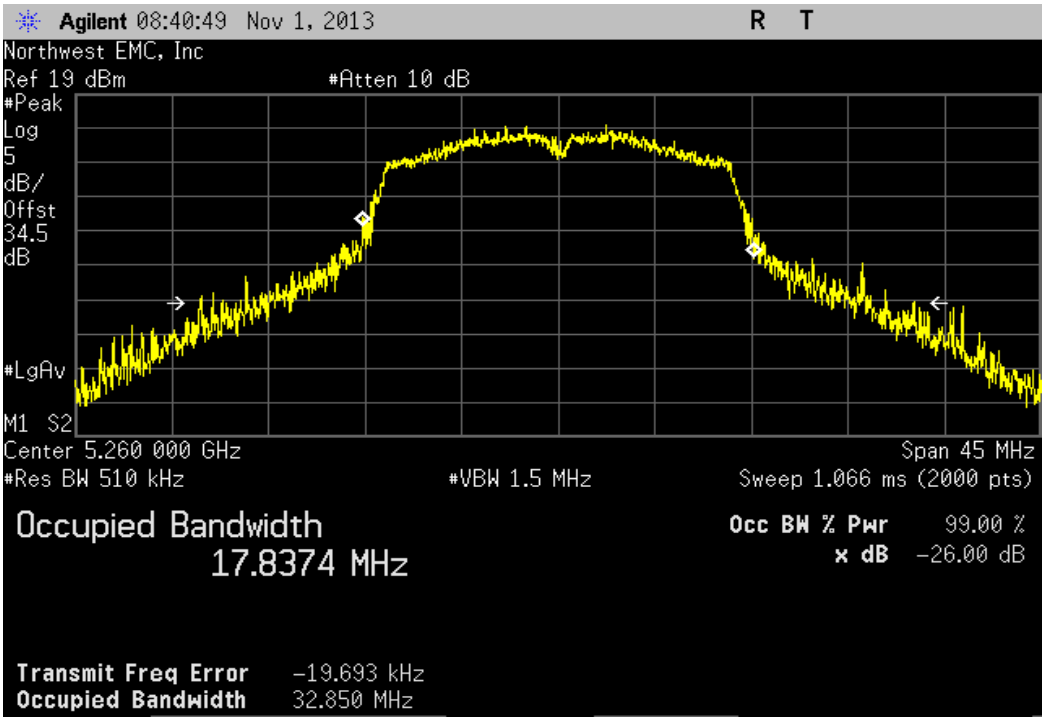
				Value	Limit	Result
				22.403 MHz	> 500 kHz	Pass



Emission Bandwidth

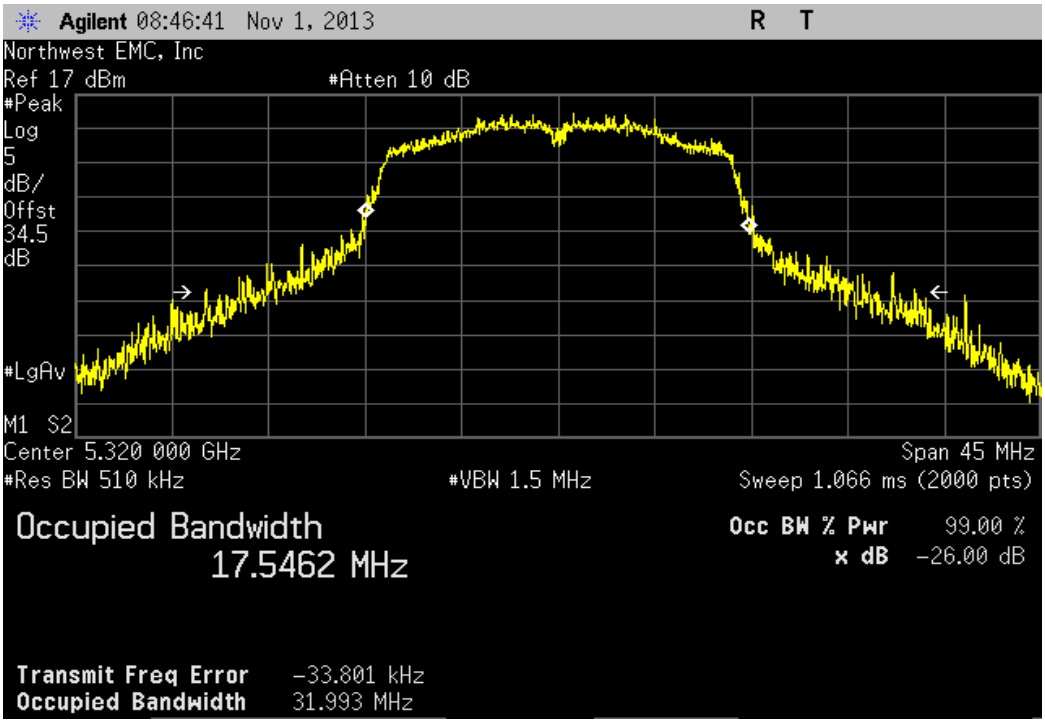
802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel

				Value	Limit	Result
				32.85 MHz	> 500 kHz	Pass



802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel

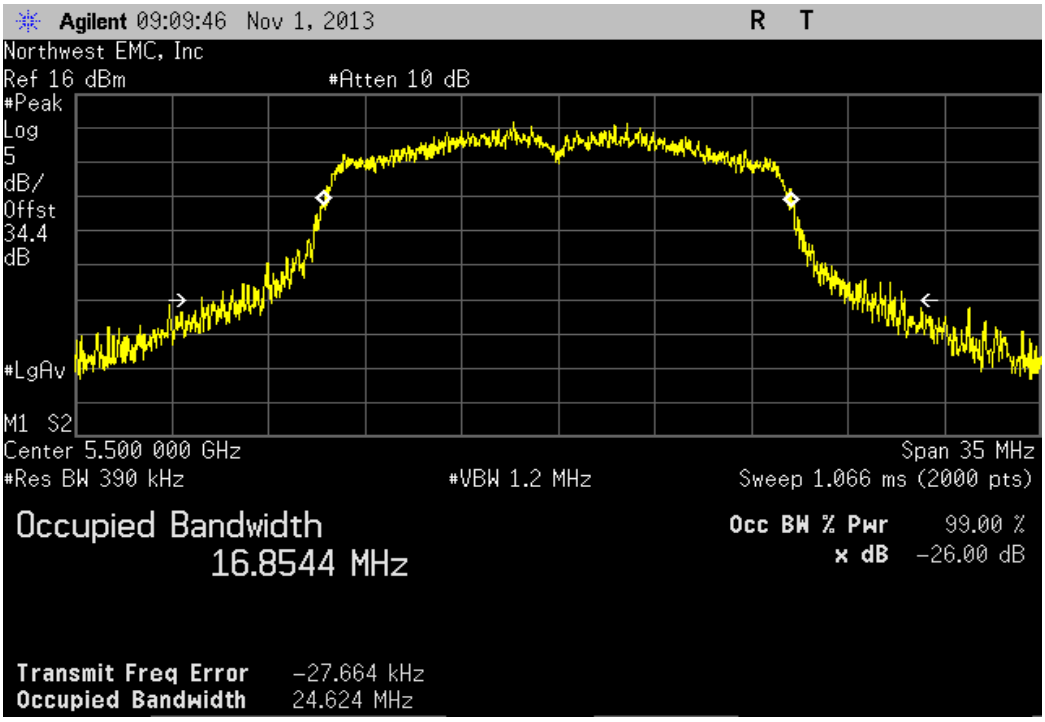
				Value	Limit	Result
				31.993 MHz	> 500 kHz	Pass



Emission Bandwidth

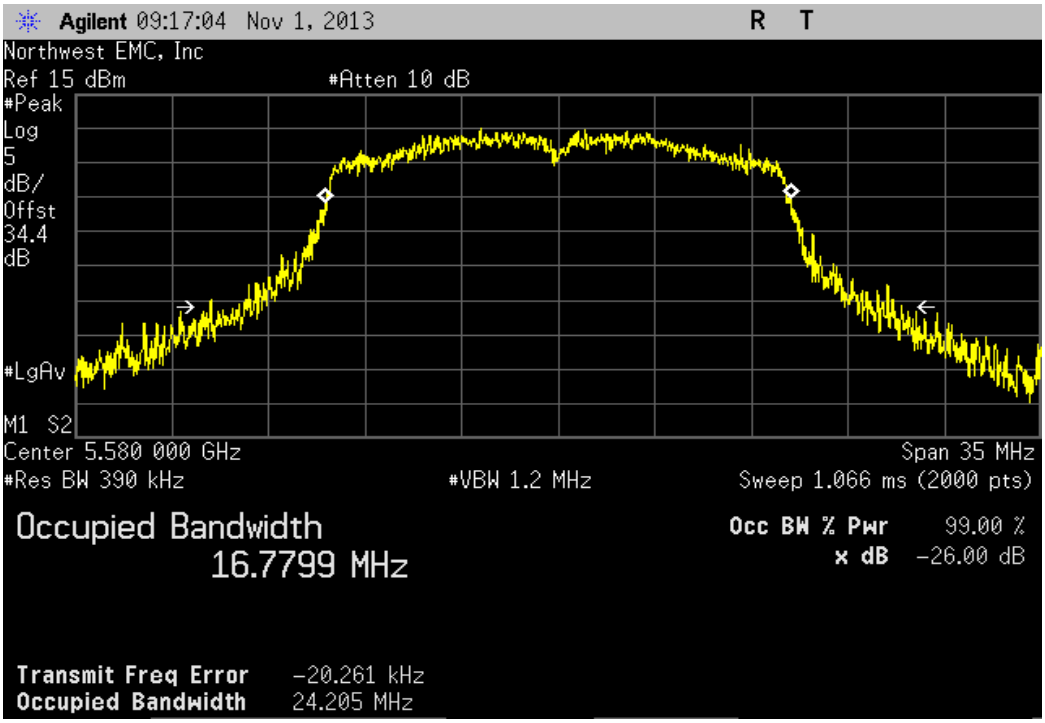
802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel

				Value	Limit	Result
				24.624 MHz	> 500 kHz	Pass



802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel

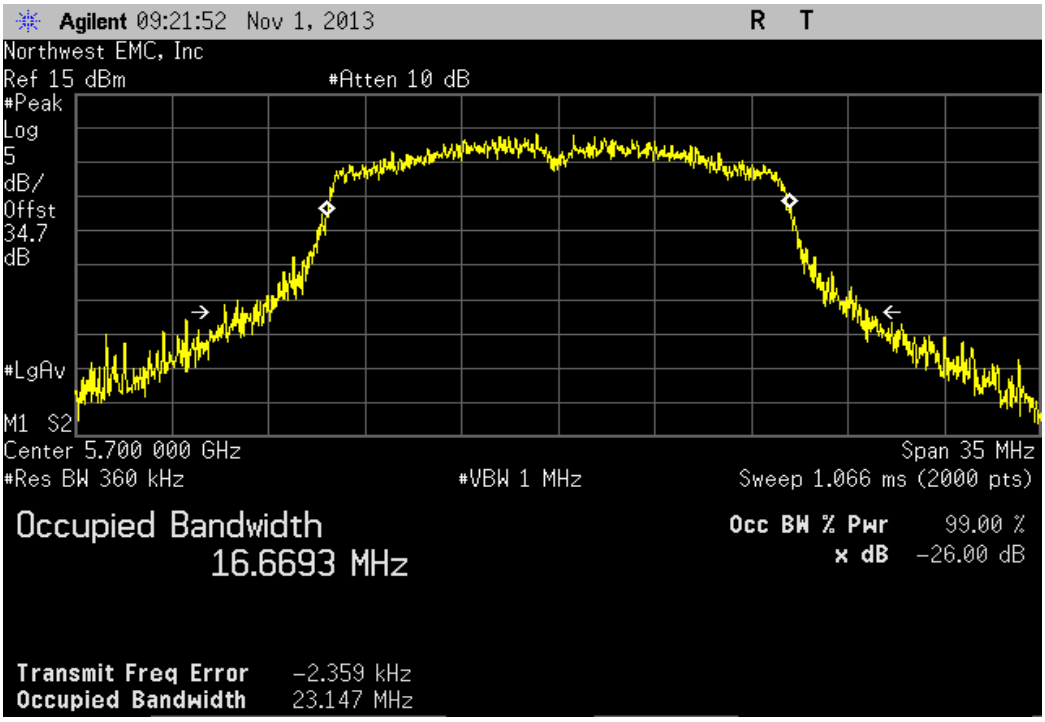
				Value	Limit	Result
				24.205 MHz	> 500 kHz	Pass



Emission Bandwidth

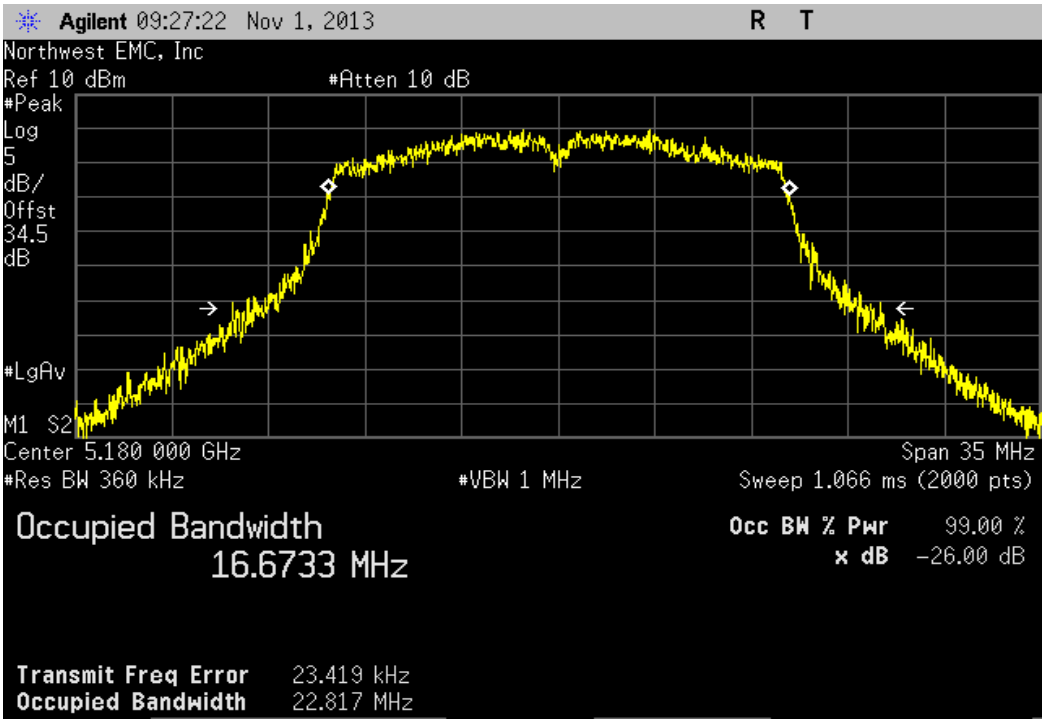
802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel

				Value	Limit	Result
				23.147 MHz	> 500 kHz	Pass



802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel

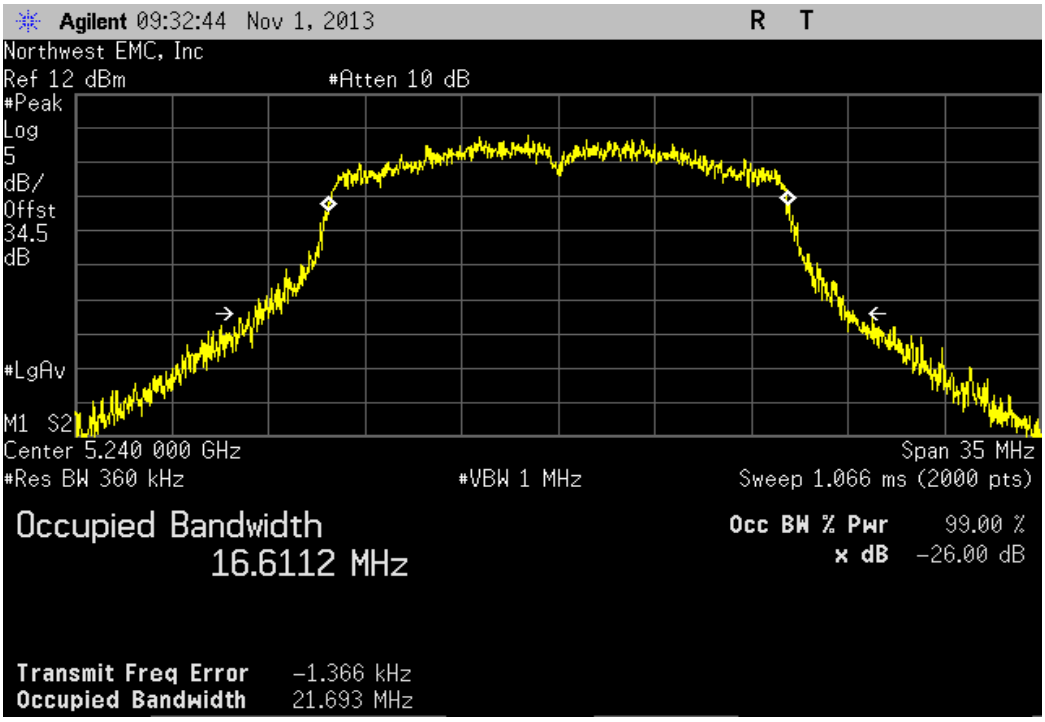
				Value	Limit	Result
				22.817 MHz	> 500 kHz	Pass



Emission Bandwidth

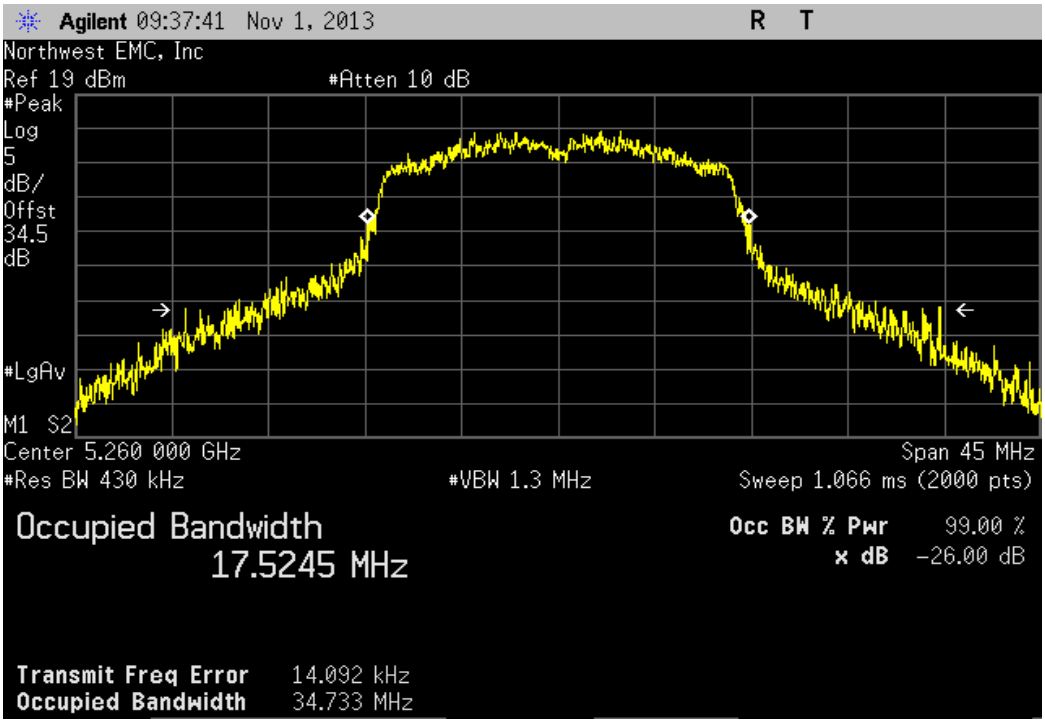
802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel

				Value	Limit	Result
				21.693 MHz	> 500 kHz	Pass



802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel

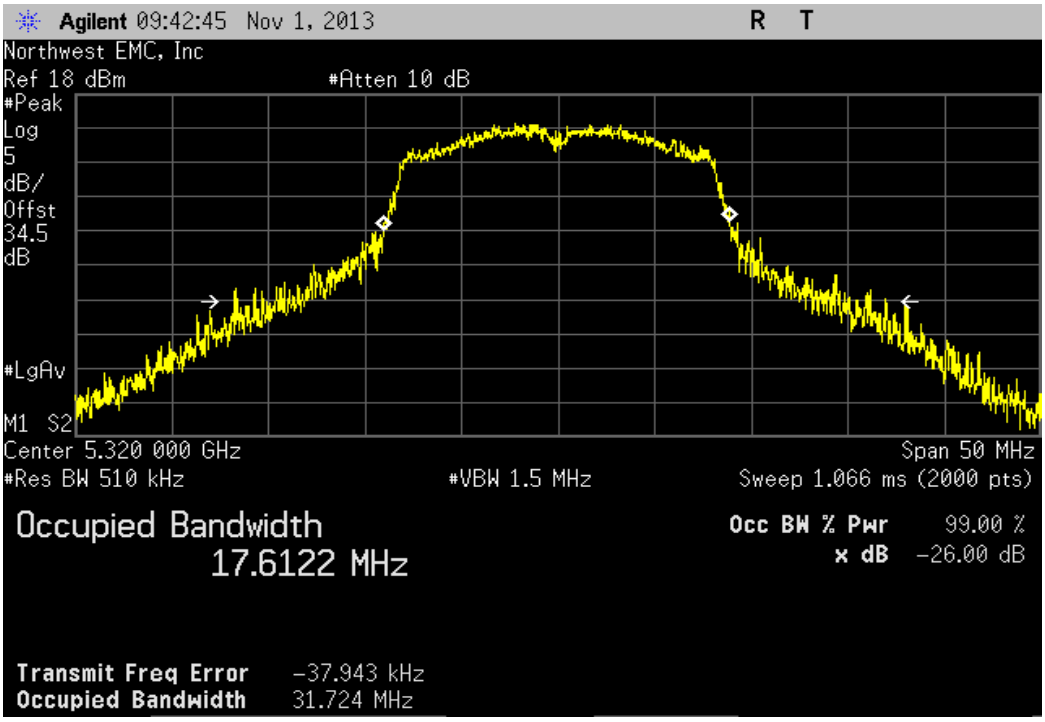
				Value	Limit	Result
				34.733 MHz	> 500 kHz	Pass



Emission Bandwidth

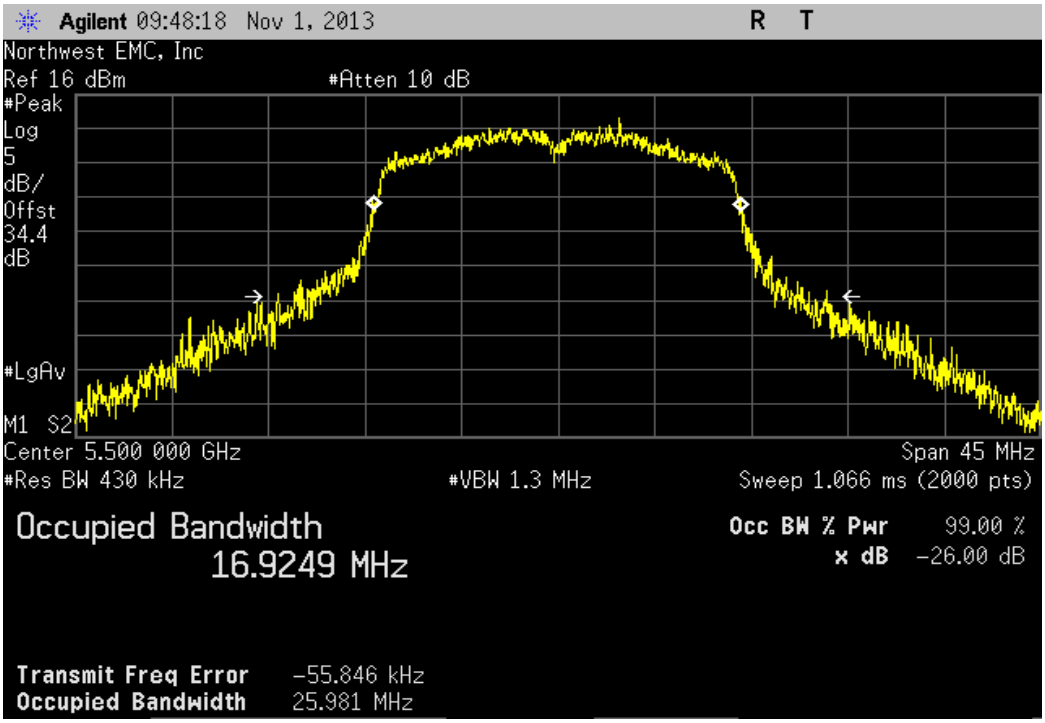
802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel

				Value	Limit	Result
				31.724 MHz	> 500 kHz	Pass



802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel

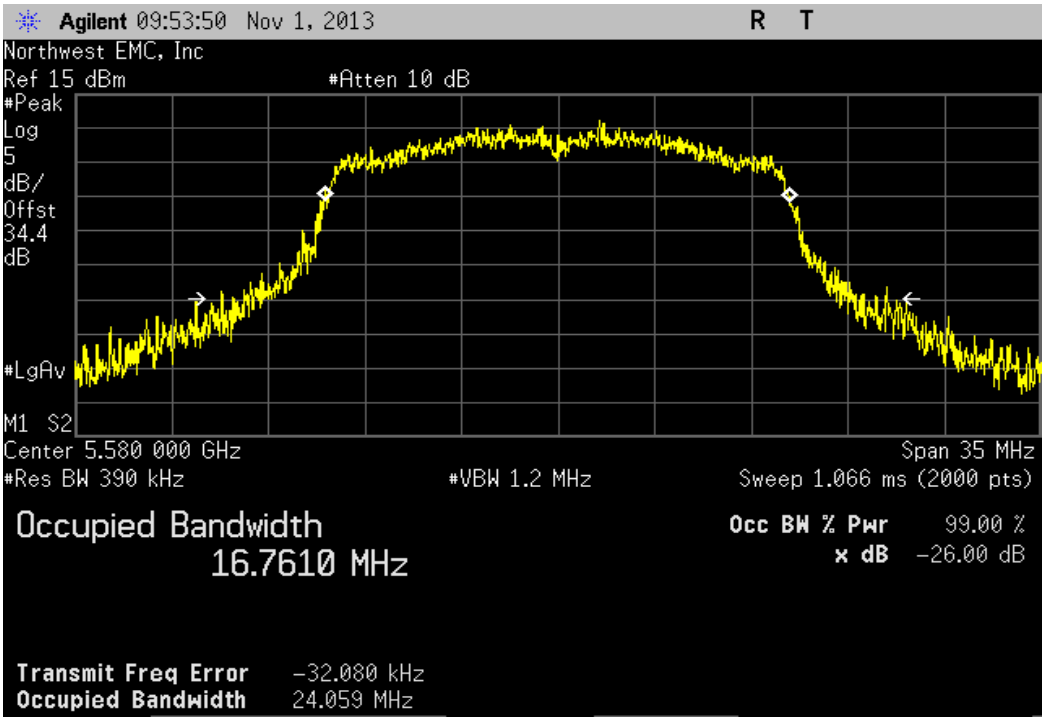
				Value	Limit	Result
				25.981 MHz	> 500 kHz	Pass



Emission Bandwidth

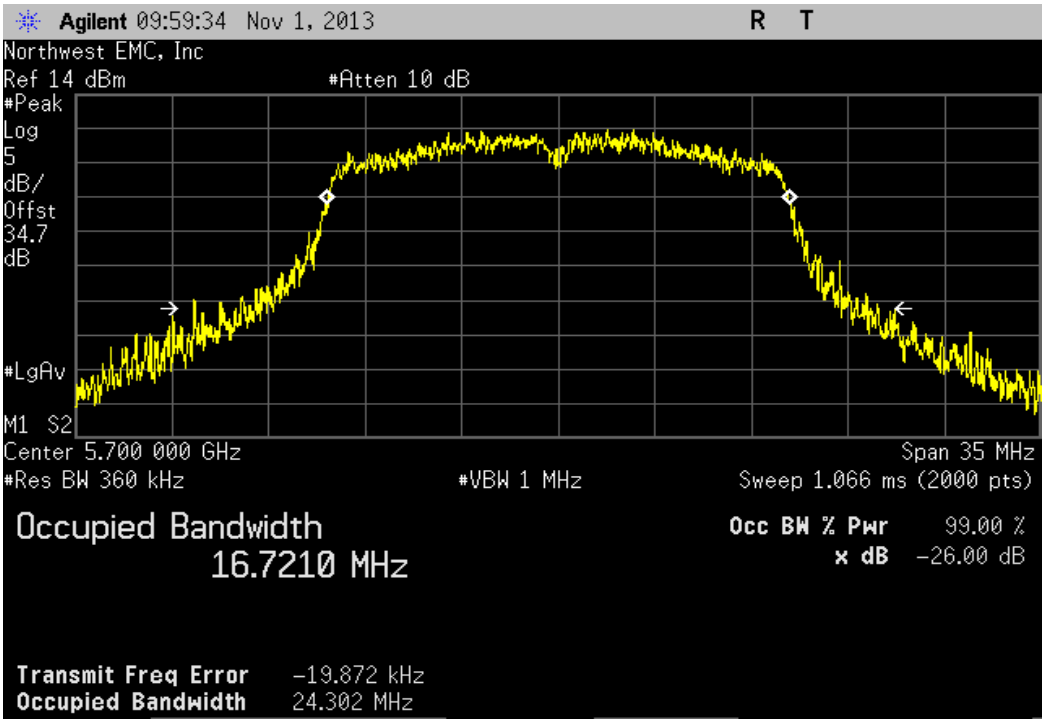
802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel

				Value	Limit	Result
				24.059 MHz	> 500 kHz	Pass



802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel

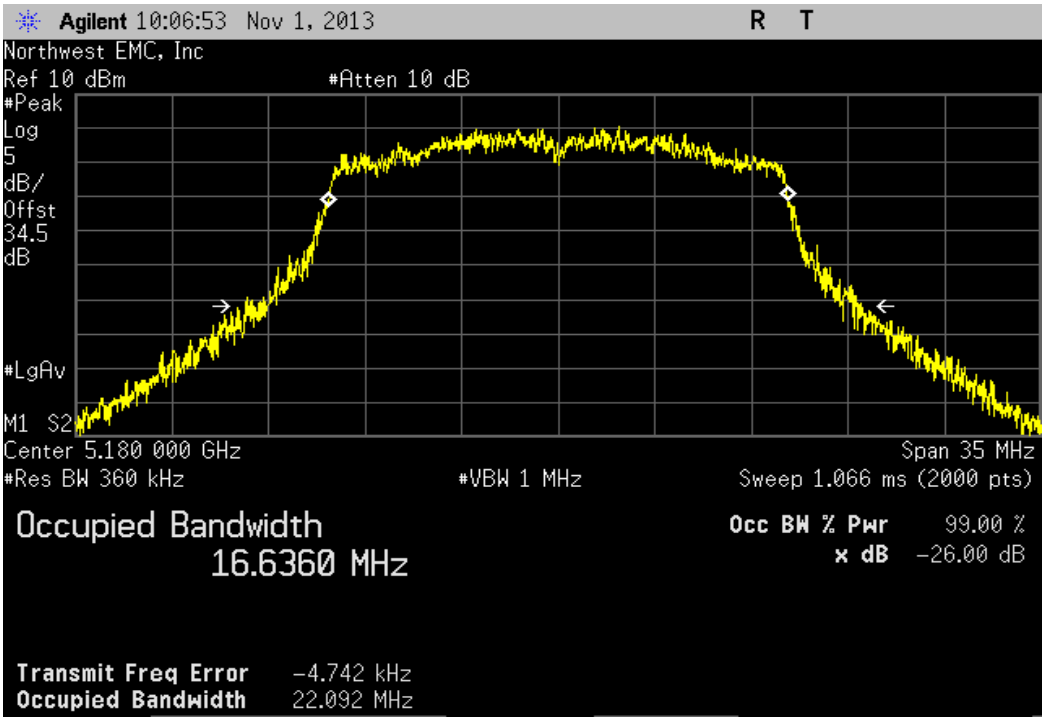
				Value	Limit	Result
				24.302 MHz	> 500 kHz	Pass



Emission Bandwidth

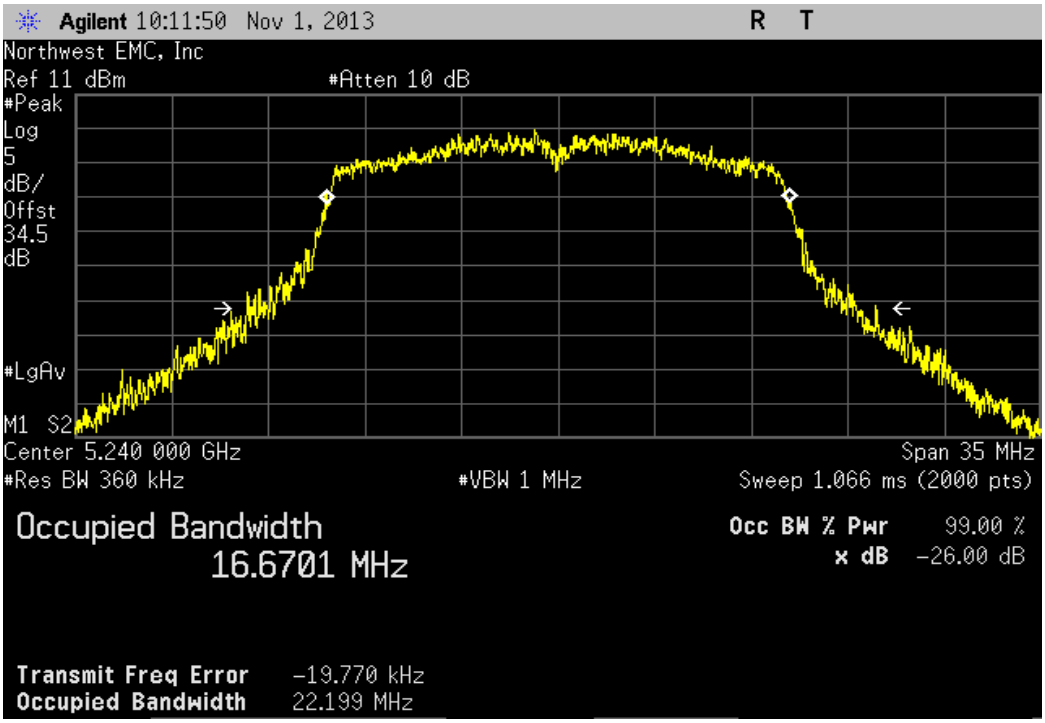
802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel

				Value	Limit	Result
				22.092 MHz	> 500 kHz	Pass



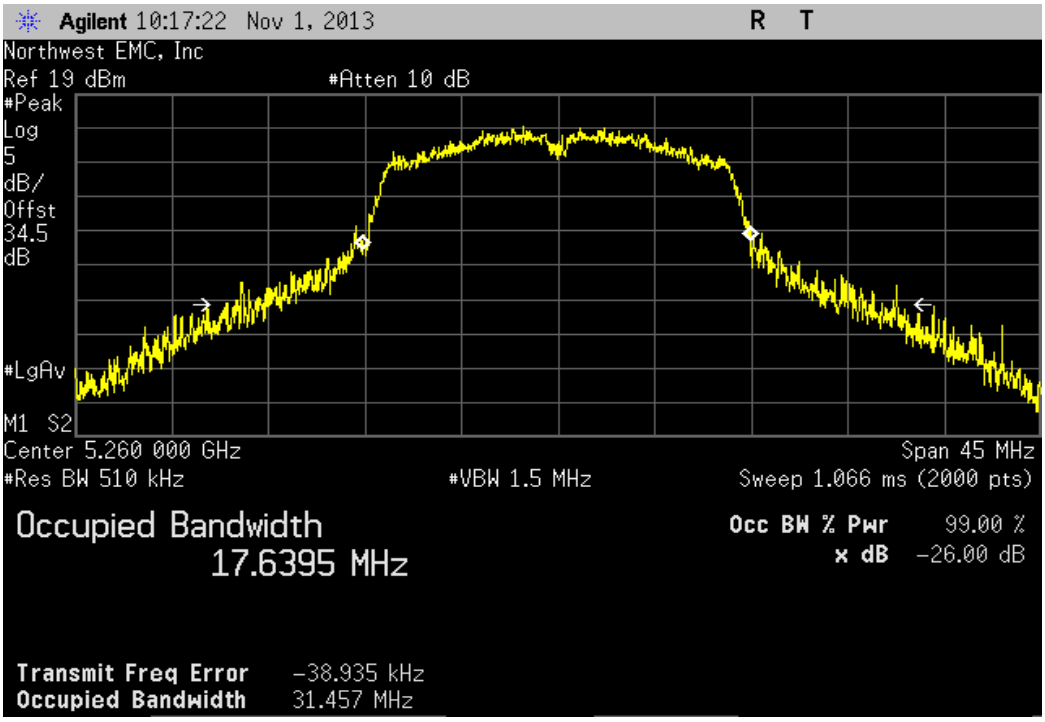
802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel

				Value	Limit	Result
				22.199 MHz	> 500 kHz	Pass



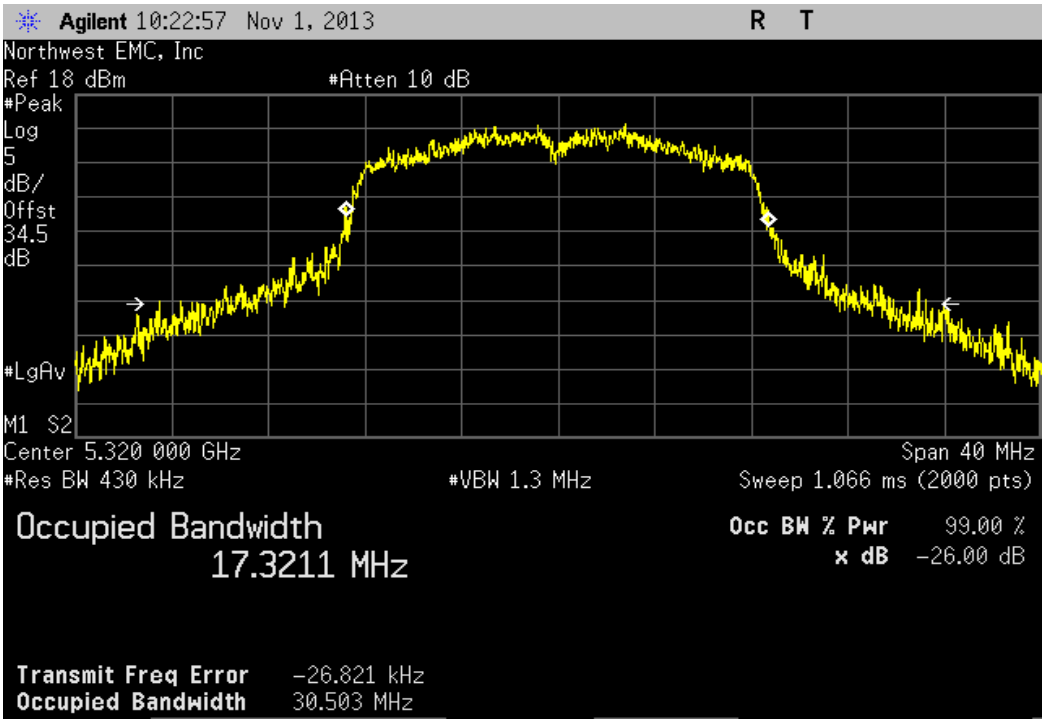
802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel

				Value	Limit	Result
				31.457 MHz	> 500 kHz	Pass



802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel

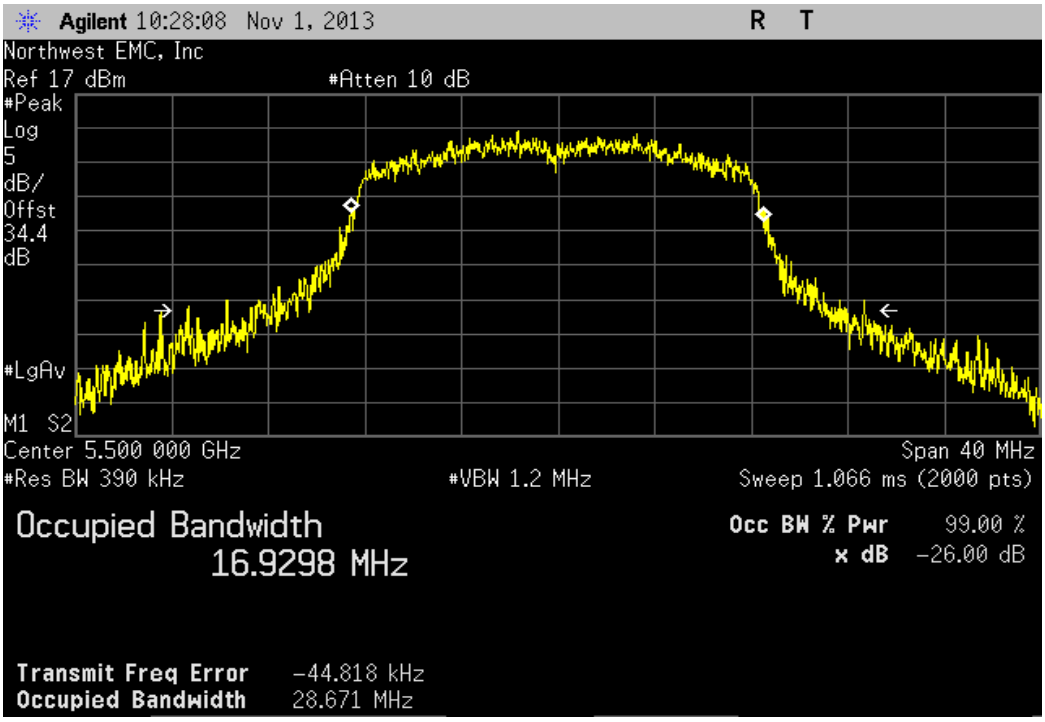
				Value	Limit	Result
				30.503 MHz	> 500 kHz	Pass



Emission Bandwidth

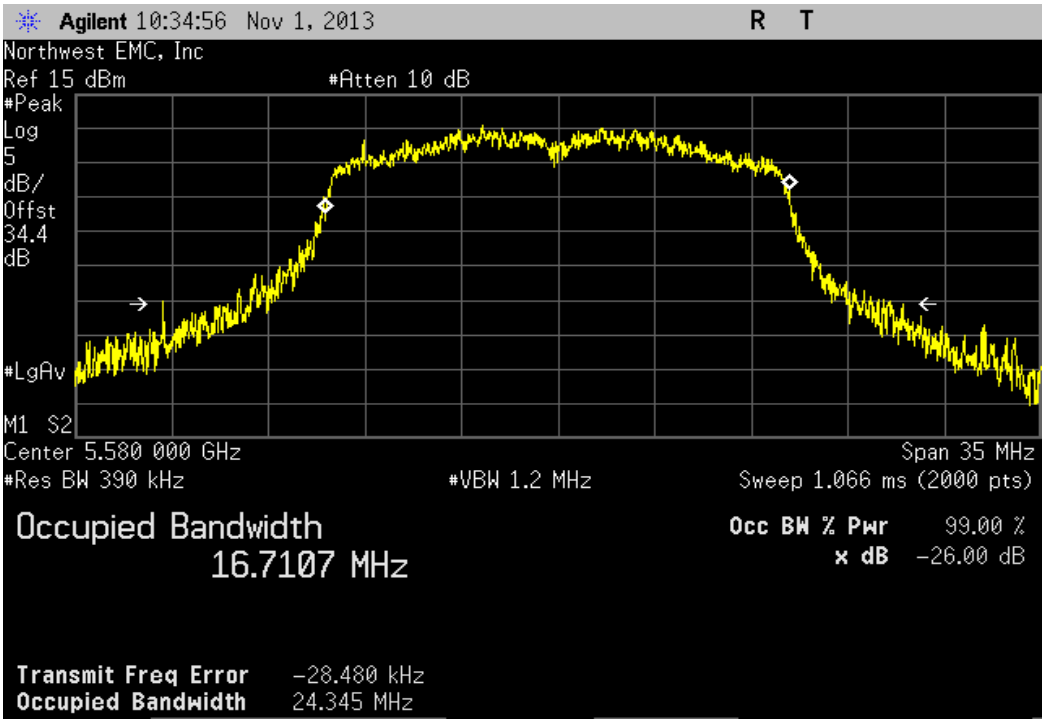
802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel

				Value	Limit	Result
				28.671 MHz	> 500 kHz	Pass



802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel

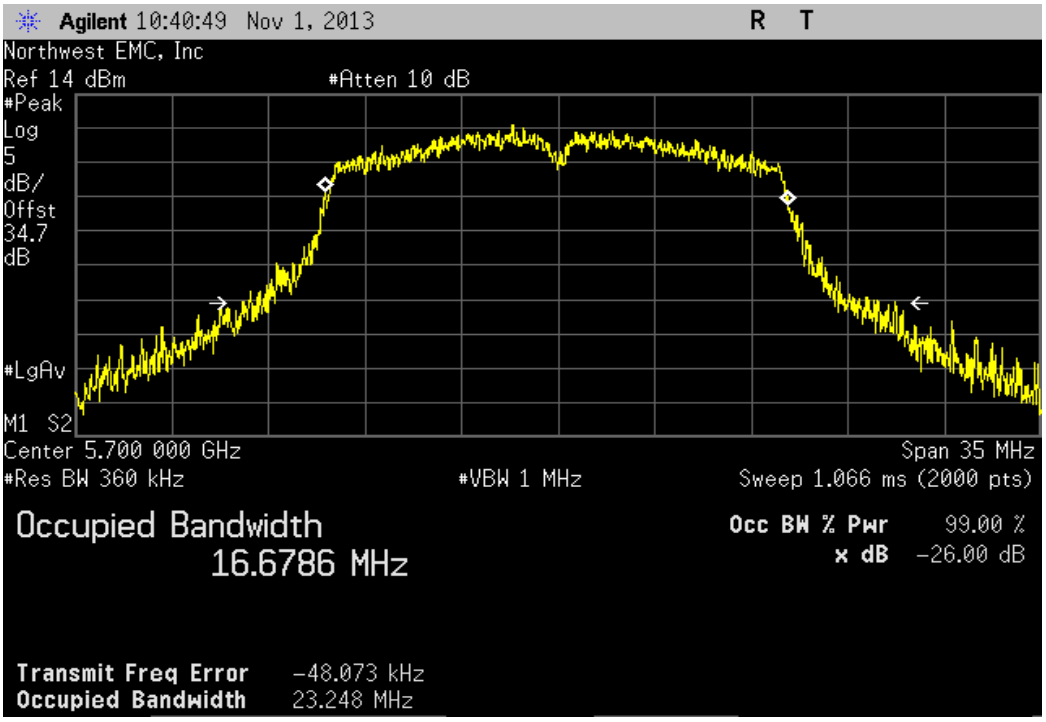
				Value	Limit	Result
				24.345 MHz	> 500 kHz	Pass



Emission Bandwidth

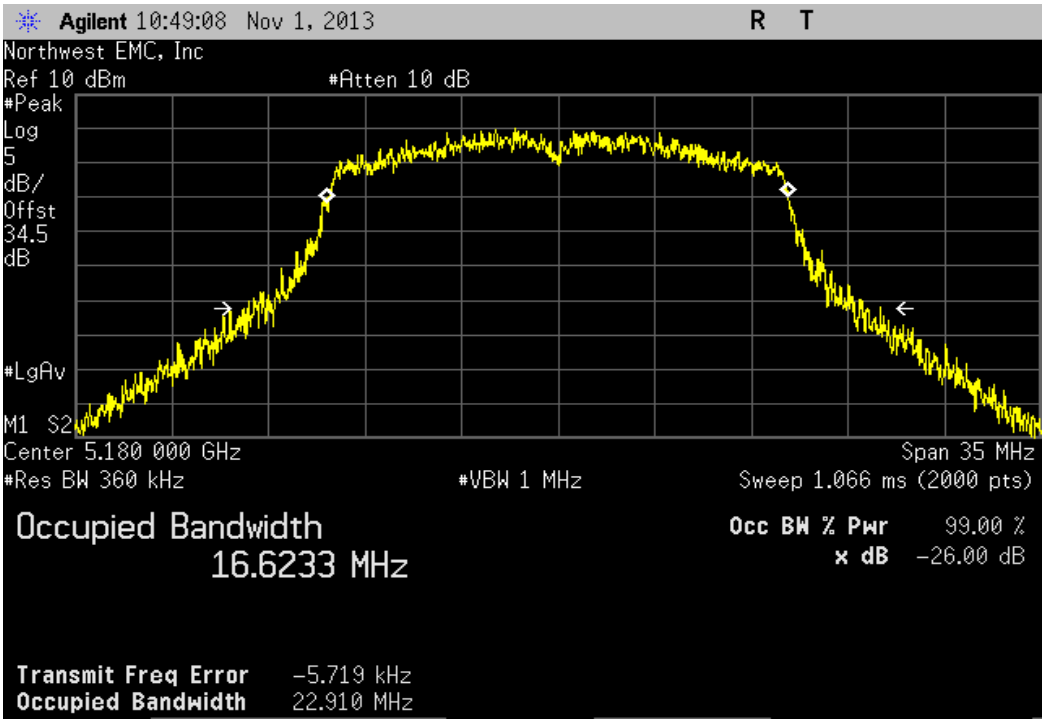
802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel

				Value	Limit	Result
				23.248 MHz	> 500 kHz	Pass



802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 36, Low Channel

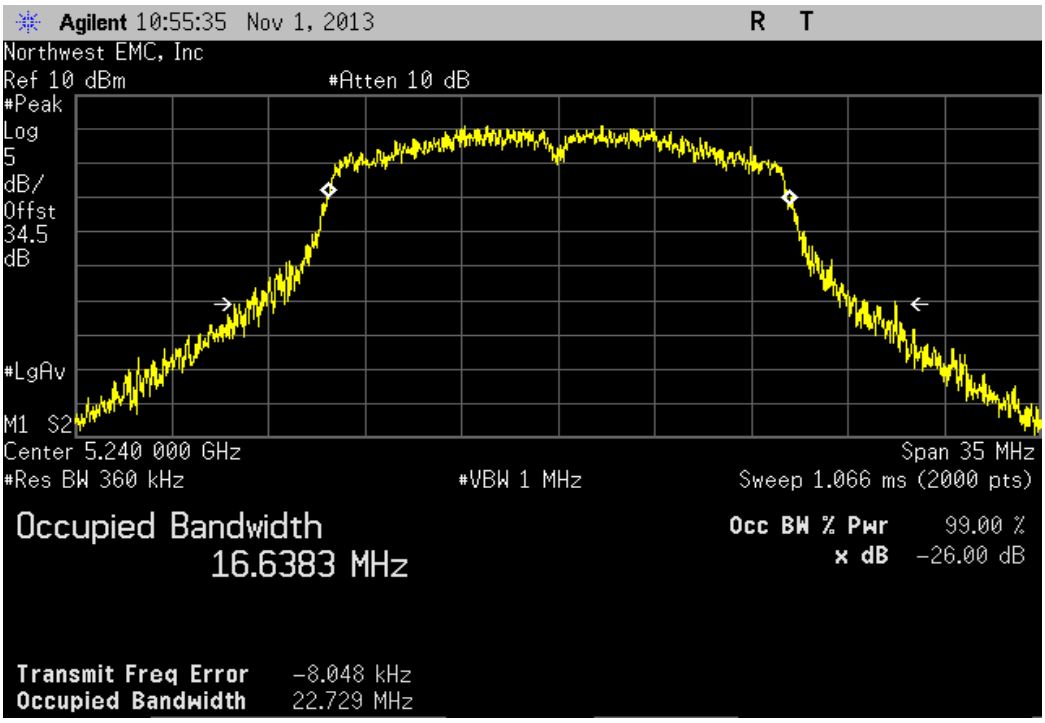
				Value	Limit	Result
				22.91 MHz	> 500 kHz	Pass



Emission Bandwidth

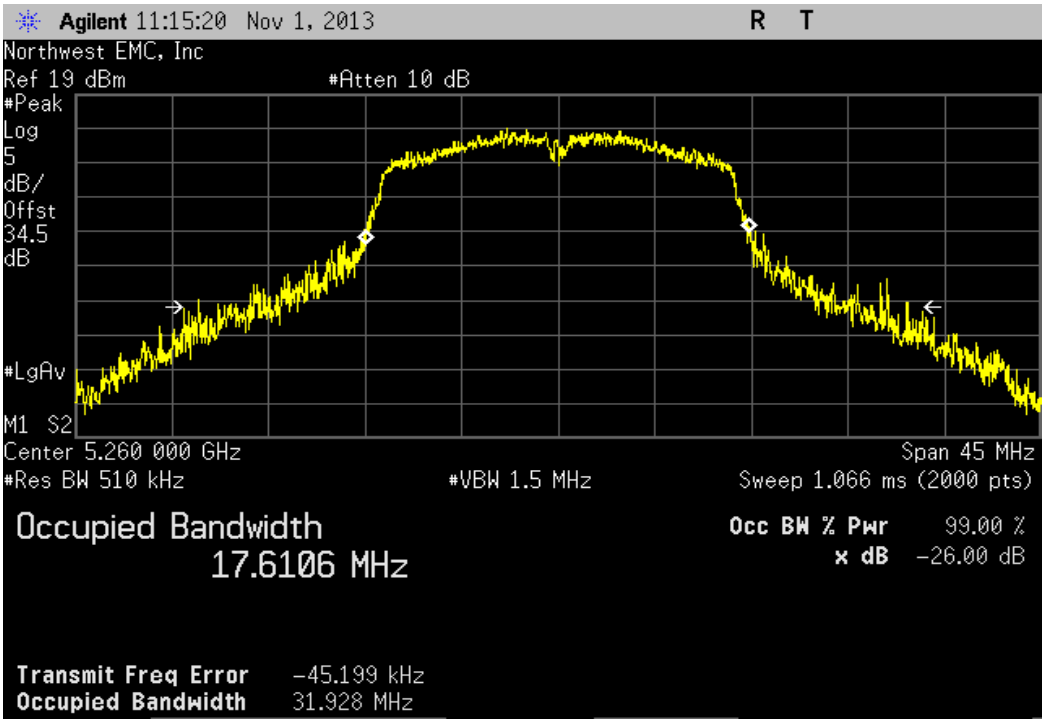
802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 48, High Channel

				Value	Limit	Result
				22.729 MHz	> 500 kHz	Pass



802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 52, Low Channel

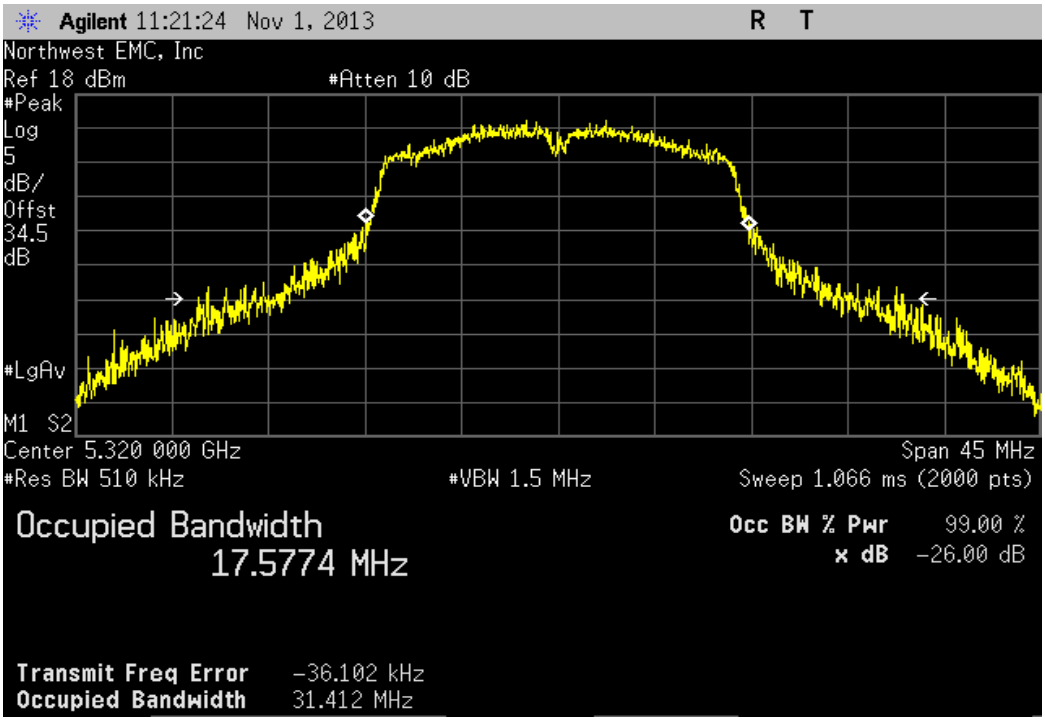
				Value	Limit	Result
				31.928 MHz	> 500 kHz	Pass



Emission Bandwidth

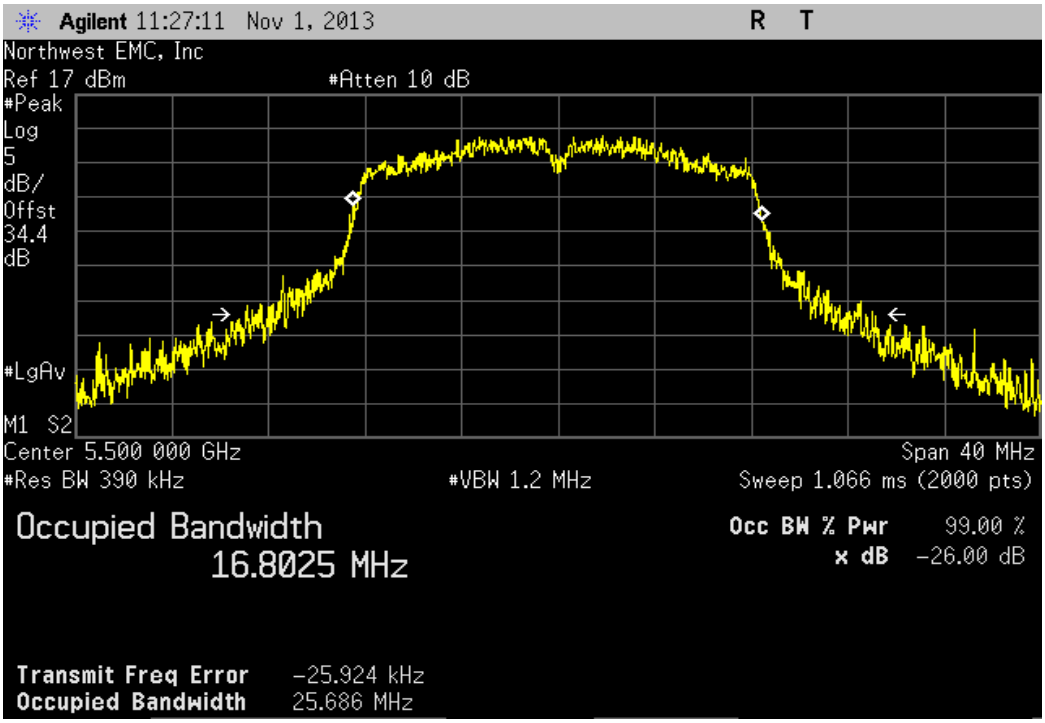
802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 64, High Channel

				Value	Limit	Result
				31.412 MHz	> 500 kHz	Pass



802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 100, Low Channel

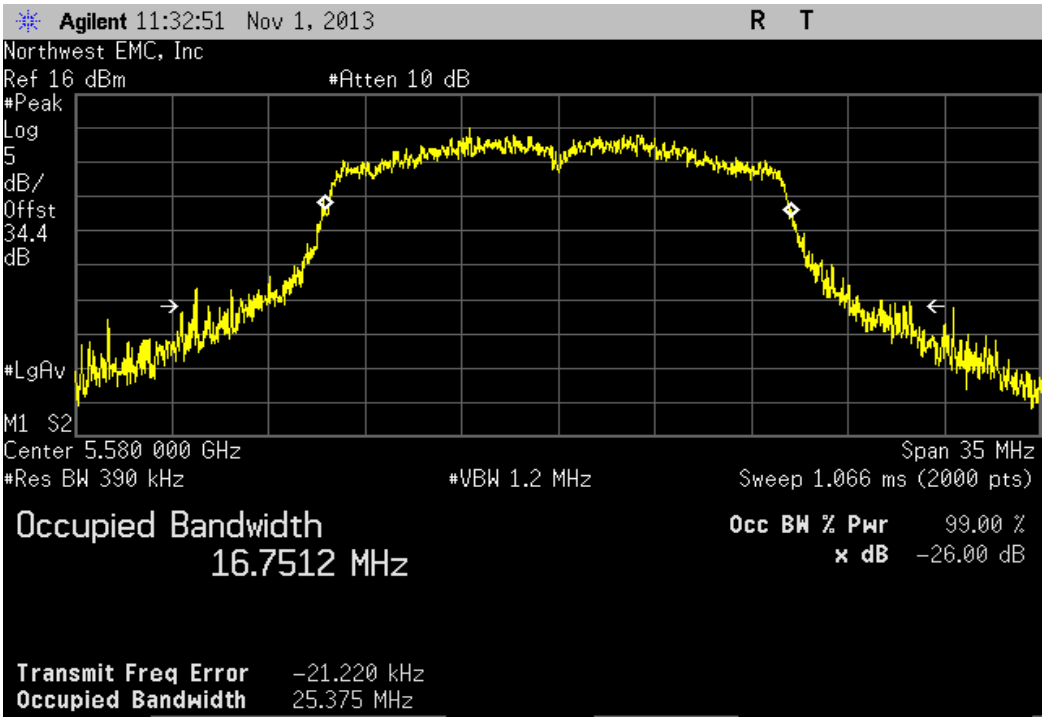
				Value	Limit	Result
				25.686 MHz	> 500 kHz	Pass



Emission Bandwidth

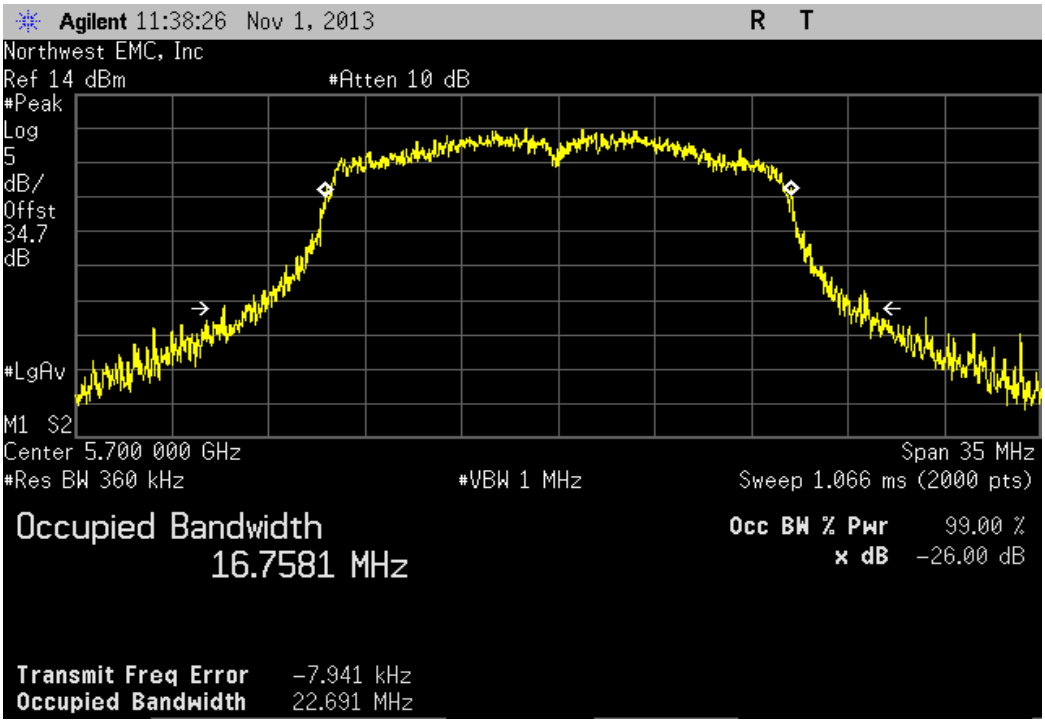
802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 116, Mid Channel

				Value	Limit	Result
				25.375 MHz	> 500 kHz	Pass



802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 140, High Channel

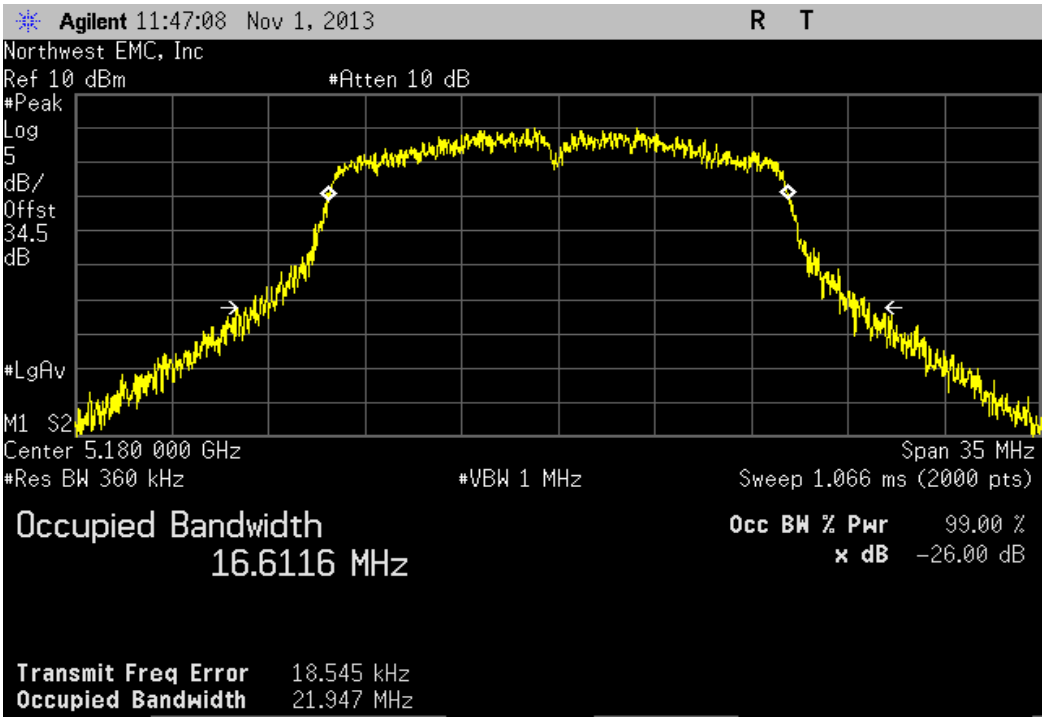
				Value	Limit	Result
				22.691 MHz	> 500 kHz	Pass



Emission Bandwidth

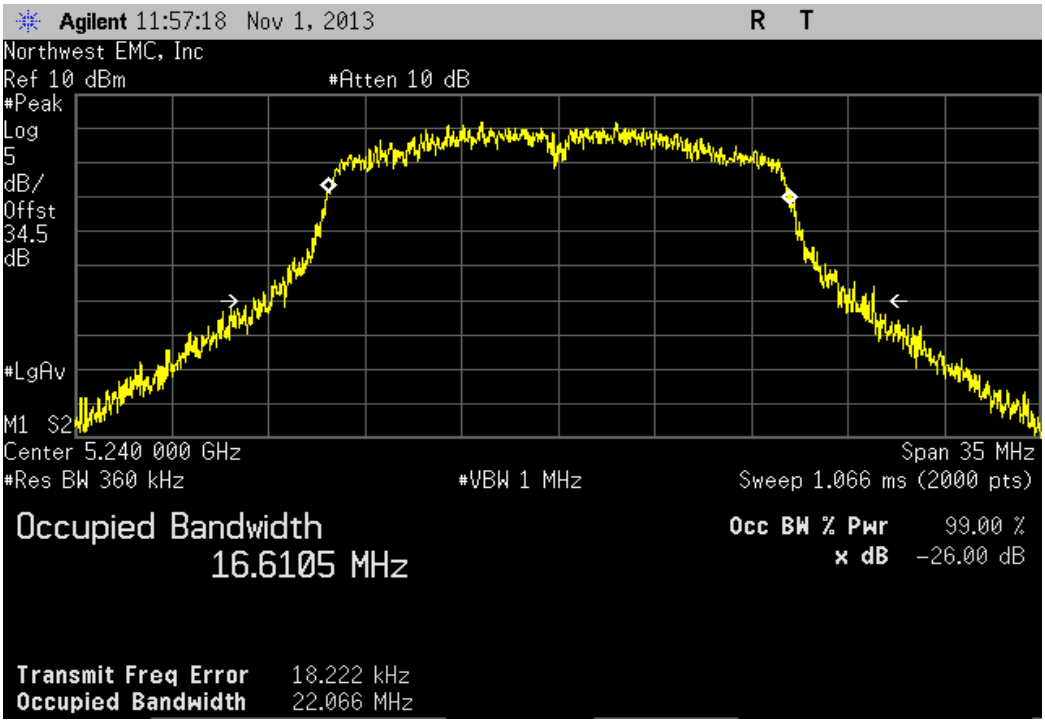
802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 36, Low Channel

				Value	Limit	Result
				21.947 MHz	> 500 kHz	Pass



802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 48, High Channel

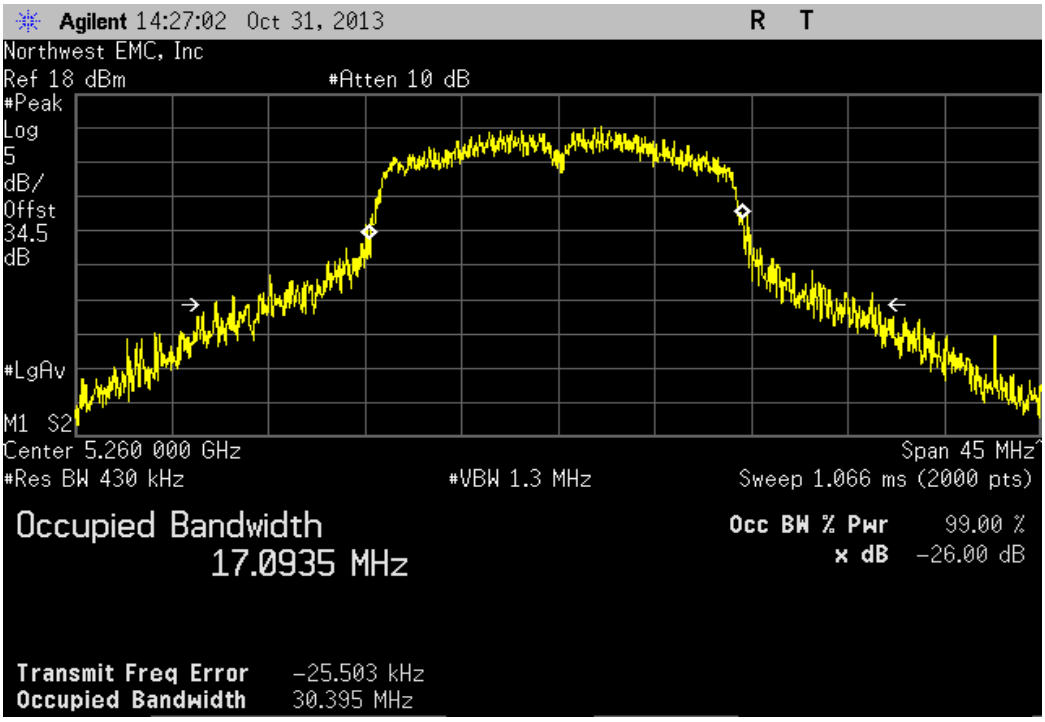
				Value	Limit	Result
				22.066 MHz	> 500 kHz	Pass



Emission Bandwidth

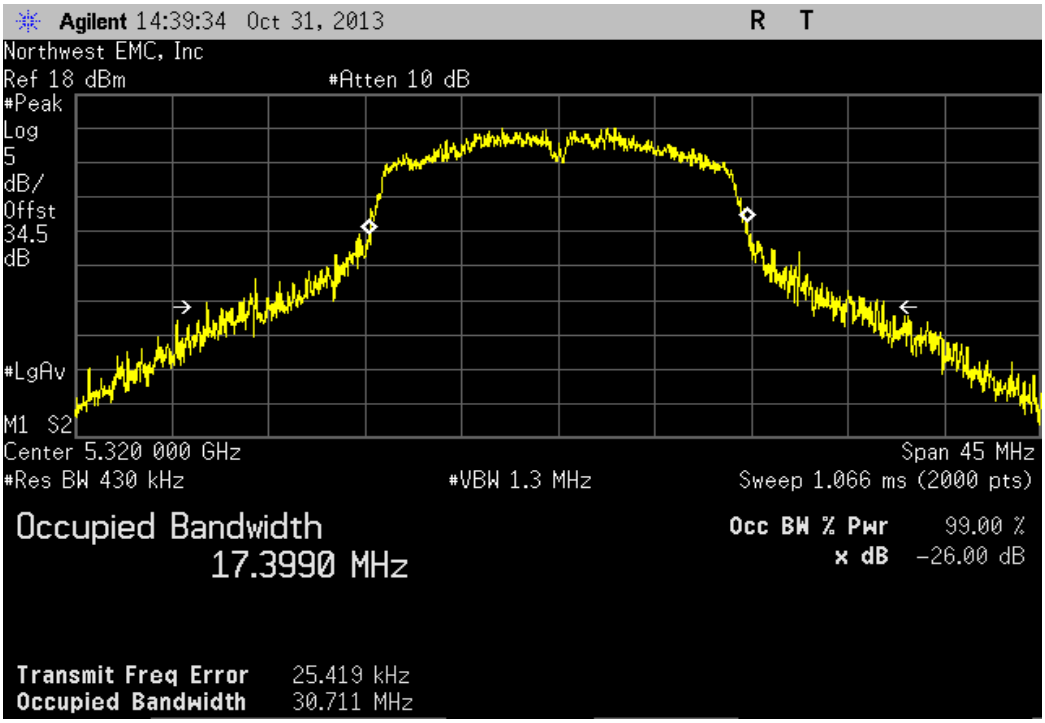
802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 52, Low Channel

				Value	Limit	Result
				30.395 MHz	> 500 kHz	Pass



802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 64, High Channel

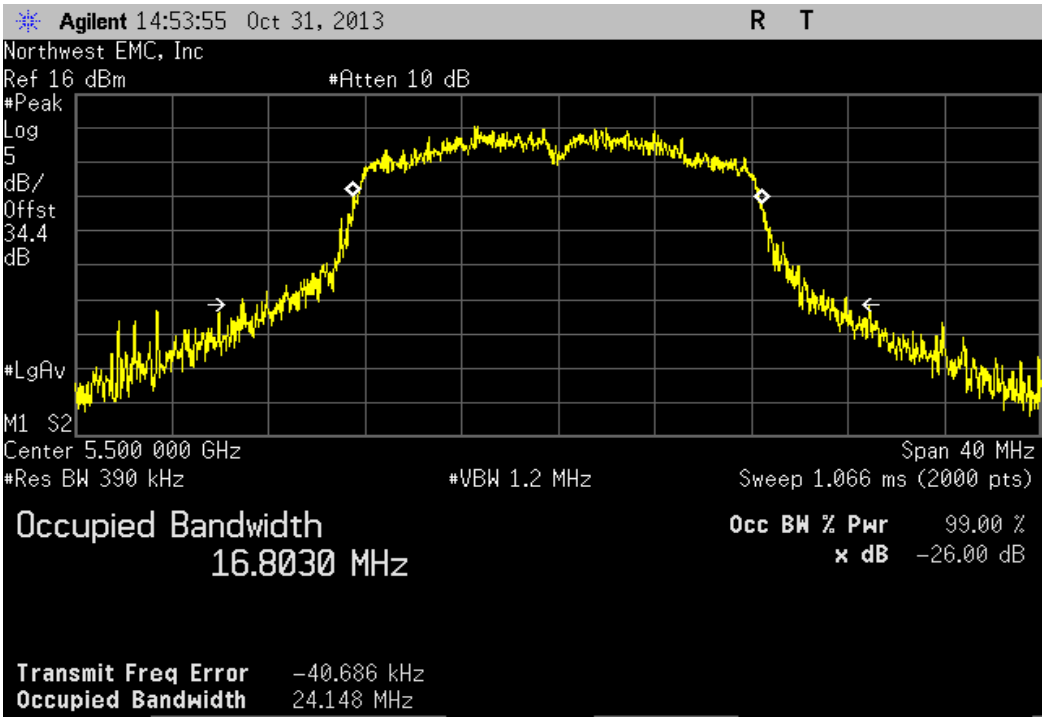
				Value	Limit	Result
				30.711 MHz	> 500 kHz	Pass



Emission Bandwidth

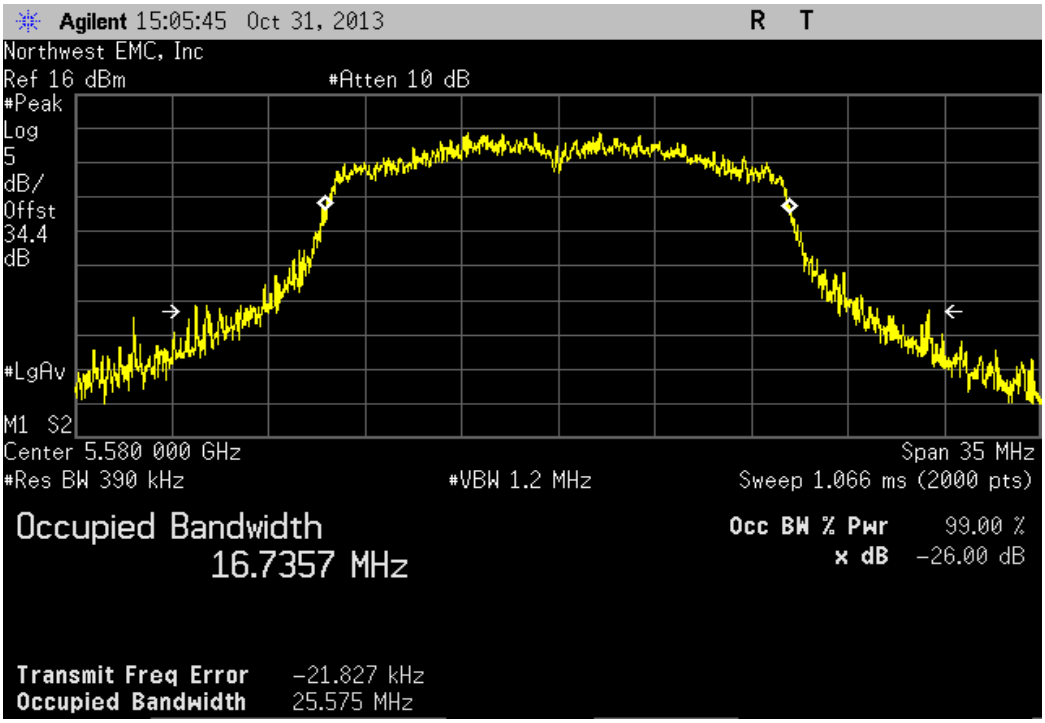
802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 100, Low Channel

				Value	Limit	Result
				24.148 MHz	> 500 kHz	Pass



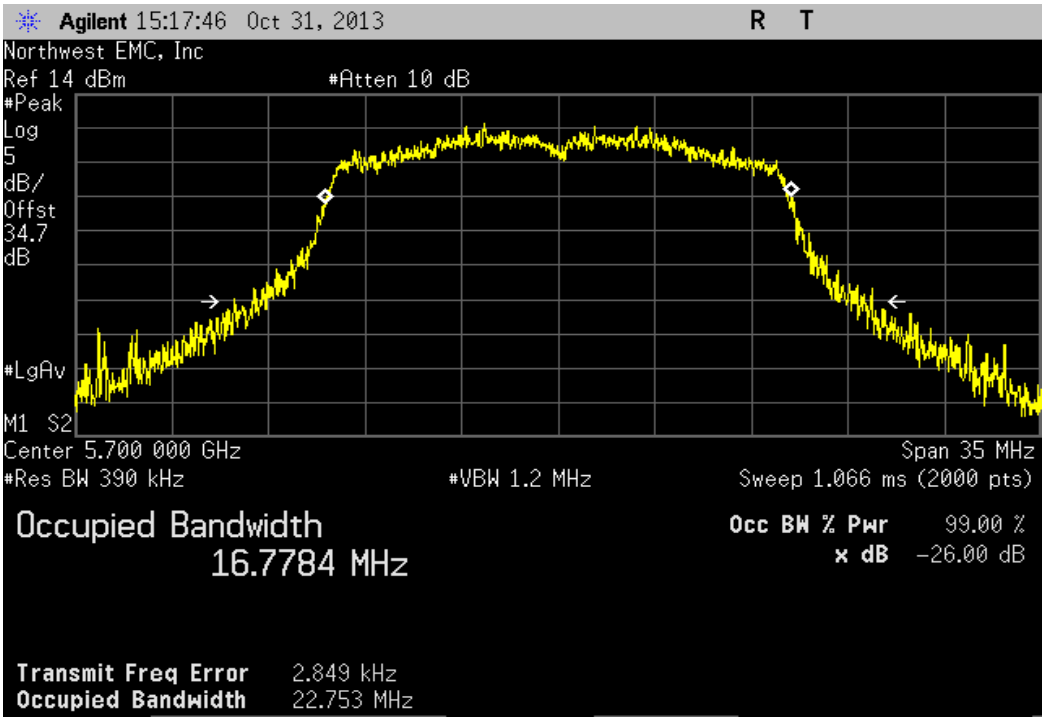
802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 116, Mid Channel

				Value	Limit	Result
				25.575 MHz	> 500 kHz	Pass



Emission Bandwidth

802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 140, High Channel						
				Value	Limit	Result
				22.753 MHz	> 500 kHz	Pass



Peak Excursion of the Modulation Envelope

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
Attenuator, 'Precision N'	S.M. Electronics	SA18N-06/SM4032	REE	12/11/2012	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	NCR	0
Power Meter	Gigatronics	8651A	SPM	1/9/2012	24
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	36
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
40GHz DC Block	Miteq	DCB4000	AMD	5/16/2013	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
Spectrum Analyzer	Agilent	E4446A	AAQ	2/7/2012	24

TEST DESCRIPTION

FCC KDB 789033 D01 General UNII Test Procedures Section F was followed to show that the radio of the maximum peak-max-hold spectrum to the maximum of the average spectrum does not exceed 13 dBm.

The transmit frequency was set to the required channels in each band. 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 spectrum analyzer settings were as follows:

Span set to encompass the entire emission bandwidth (B), centered on the transmit channel.

Using the marker delta function, the largest difference between the following two traces was measured:

- 1st Trace: RBW = 1 MHz, VBW >= 3 MHz with peak detector and trace max-hold..

- 2nd Trace: The same procedure and settings as was used for peak power spectral density

Power Setting by Band:
5180MHz – 5240MHz, Power setting of 5000
5260MHz – 5320MHz, Power setting of 14000
5500MHz – 5700MHz, Power setting of 14000

Peak Excursion of the Modulation Envelope

EUT:	The EGG (Fab C)	Work Order:	INSD0001
Serial Number:	99	Date:	11/01/13
Customer:	Intel Corporation	Temperature:	22.2°C
Attendees:	None	Humidity:	42%
Project:	None	Barometric Pres.:	1015
Tested by:	Brandon Hobbs	Job Site:	EV06
Power:	4 VDC		

TEST SPECIFICATIONS	Test Method
FCC 15.407:2013	ANSI C63.10:2009

COMMENTS

The device was running at ≥ 99% duty cycle. The operating instructions for data rate and channel selection were provided by the client.

DEVIATIONS FROM TEST STANDARD

None

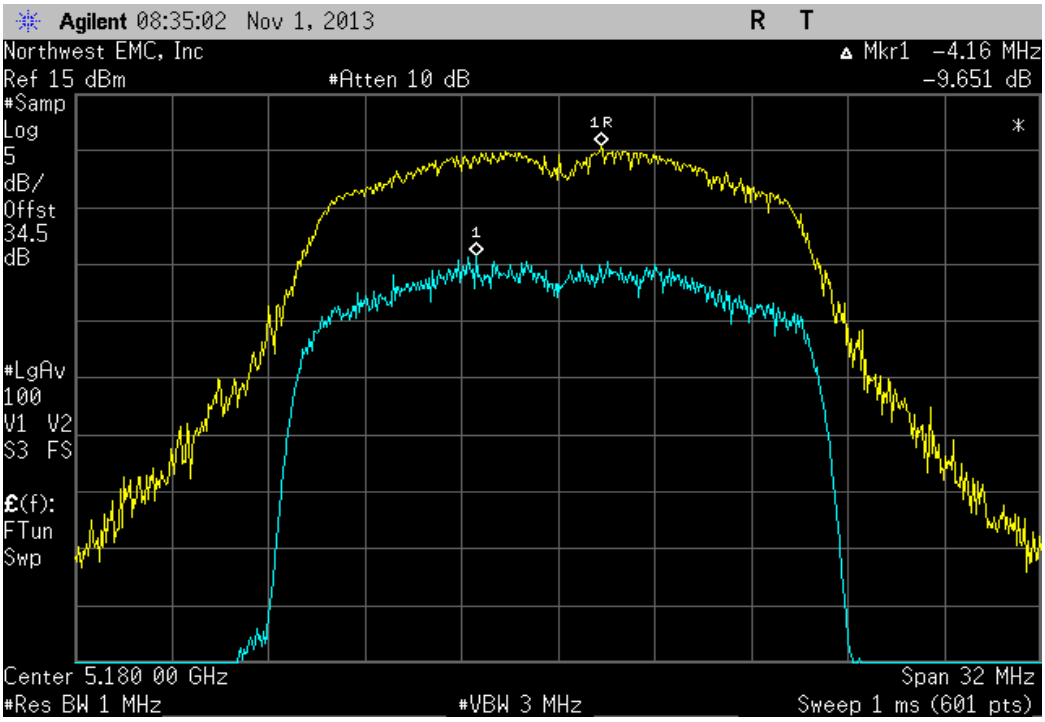
Configuration #	2	Signature

		Value	Limit	Result
802.11(a) 6 Mbps				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	9.651 dB	≤ 13 dB	Pass
	Channel 48, High Channel	8.935 dB	≤ 13 dB	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	10.06 dB	≤ 13 dB	Pass
	Channel 64, High Channel	9.884 dB	≤ 13 dB	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	9.311 dB	≤ 13 dB	Pass
	Channel 116, Mid Channel	9.294 dB	≤ 13 dB	Pass
	Channel 140, High Channel	9.342 dB	≤ 13 dB	Pass
802.11(a) 36 Mbps				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	9.507 dB	≤ 13 dB	Pass
	Channel 48, High Channel	10.451 dB	≤ 13 dB	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	9.446 dB	≤ 13 dB	Pass
	Channel 64, High Channel	8.993 dB	≤ 13 dB	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	10.124 dB	≤ 13 dB	Pass
	Channel 116, Mid Channel	9.014 dB	≤ 13 dB	Pass
	Channel 140, High Channel	9.054 dB	≤ 13 dB	Pass
802.11(a) 54 Mbps				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	9.474 dB	≤ 13 dB	Pass
	Channel 48, High Channel	9.588 dB	≤ 13 dB	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	9.488 dB	≤ 13 dB	Pass
	Channel 64, High Channel	9.491 dB	≤ 13 dB	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	9.805 dB	≤ 13 dB	Pass
	Channel 116, Mid Channel	9.105 dB	≤ 13 dB	Pass
	Channel 140, High Channel	8.566 dB	≤ 13 dB	Pass
802.11(n) MCS0				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	10.495 dB	≤ 13 dB	Pass
	Channel 48, High Channel	8.861 dB	≤ 13 dB	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	9.729 dB	≤ 13 dB	Pass
	Channel 64, High Channel	9.815 dB	≤ 13 dB	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	10.605 dB	≤ 13 dB	Pass
	Channel 116, Mid Channel	9.156 dB	≤ 13 dB	Pass
	Channel 140, High Channel	9.164 dB	≤ 13 dB	Pass
802.11(n) MCS7				
	5150 - 5250 MHz Band			
	Channel 36, Low Channel	9.472 dB	≤ 13 dB	Pass
	Channel 48, High Channel	9.61 dB	≤ 13 dB	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	9.174 dB	≤ 13 dB	Pass
	Channel 64, High Channel	9.613 dB	≤ 13 dB	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	9.075 dB	≤ 13 dB	Pass
	Channel 116, Mid Channel	9.588 dB	≤ 13 dB	Pass
	Channel 140, High Channel	8.976 dB	≤ 13 dB	Pass

Peak Excursion of the Modulation Envelope

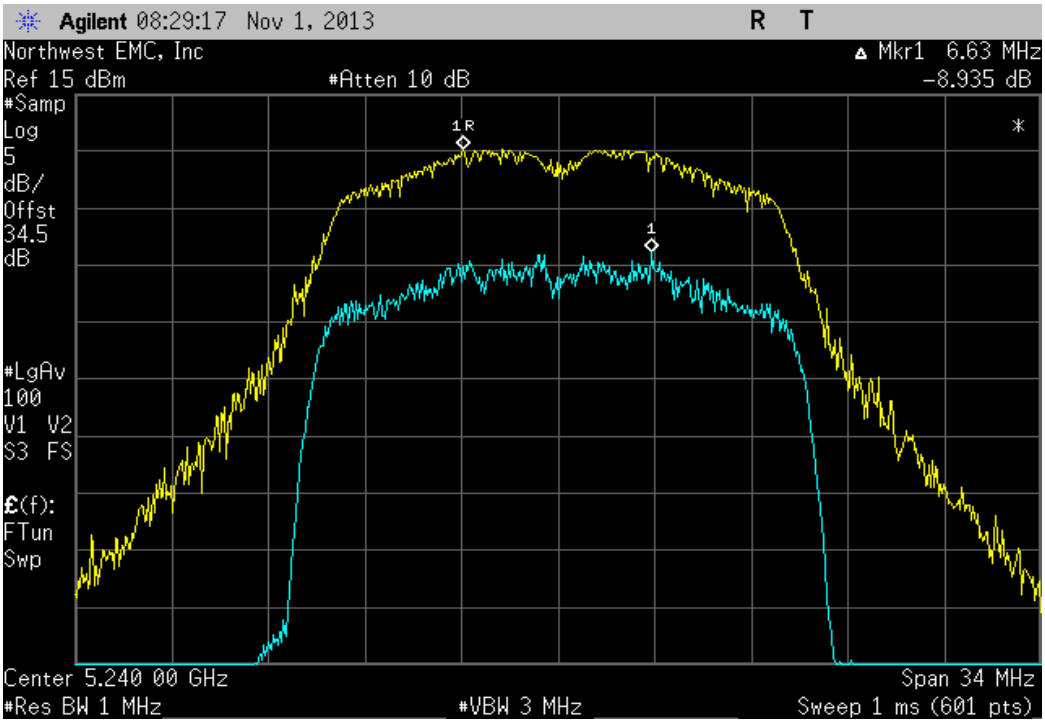
802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel

				Value	Limit	Result
				9.651 dB	≤ 13 dB	Pass



802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel

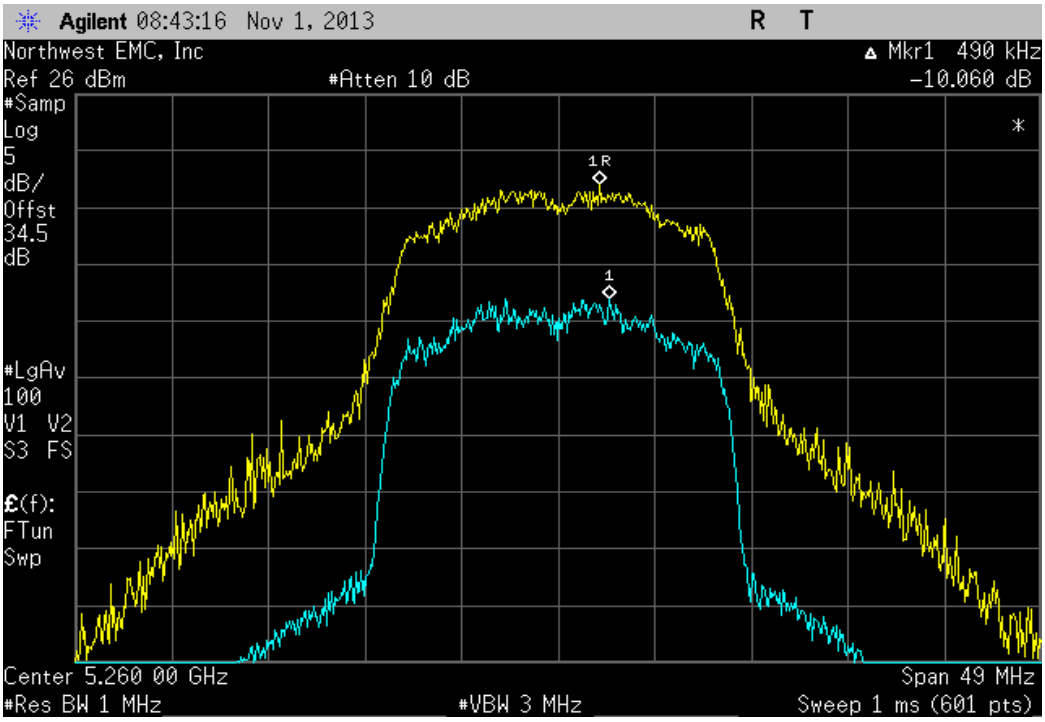
				Value	Limit	Result
				8.935 dB	≤ 13 dB	Pass



Peak Excursion of the Modulation Envelope

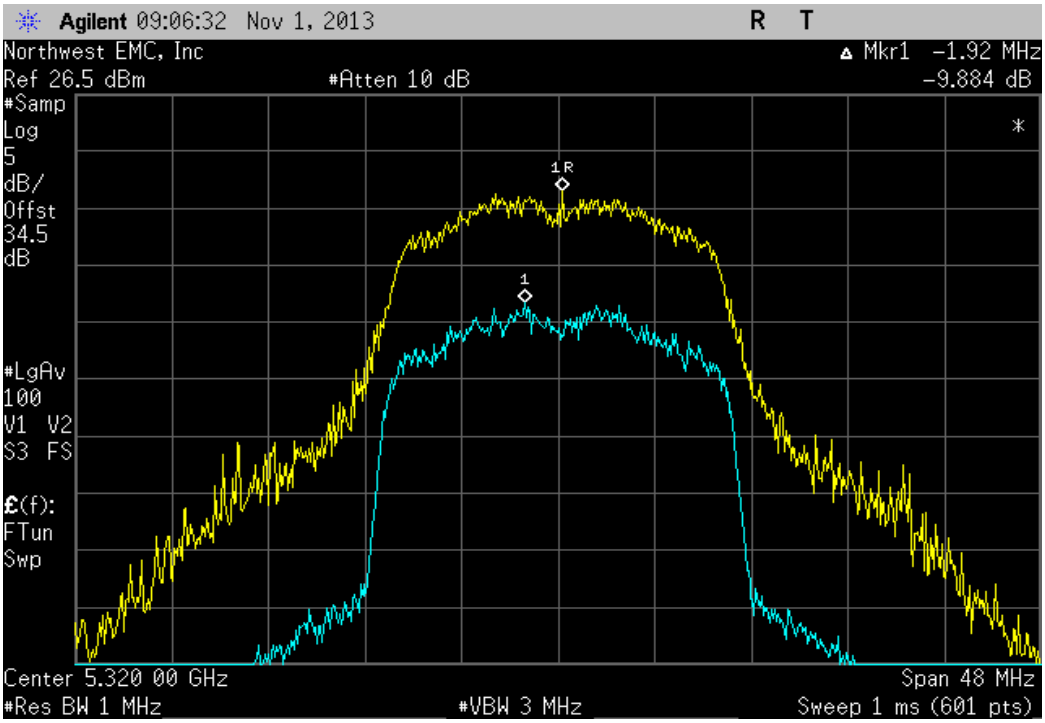
802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel

				Value	Limit	Result
				10.06 dB	≤ 13 dB	Pass



802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel

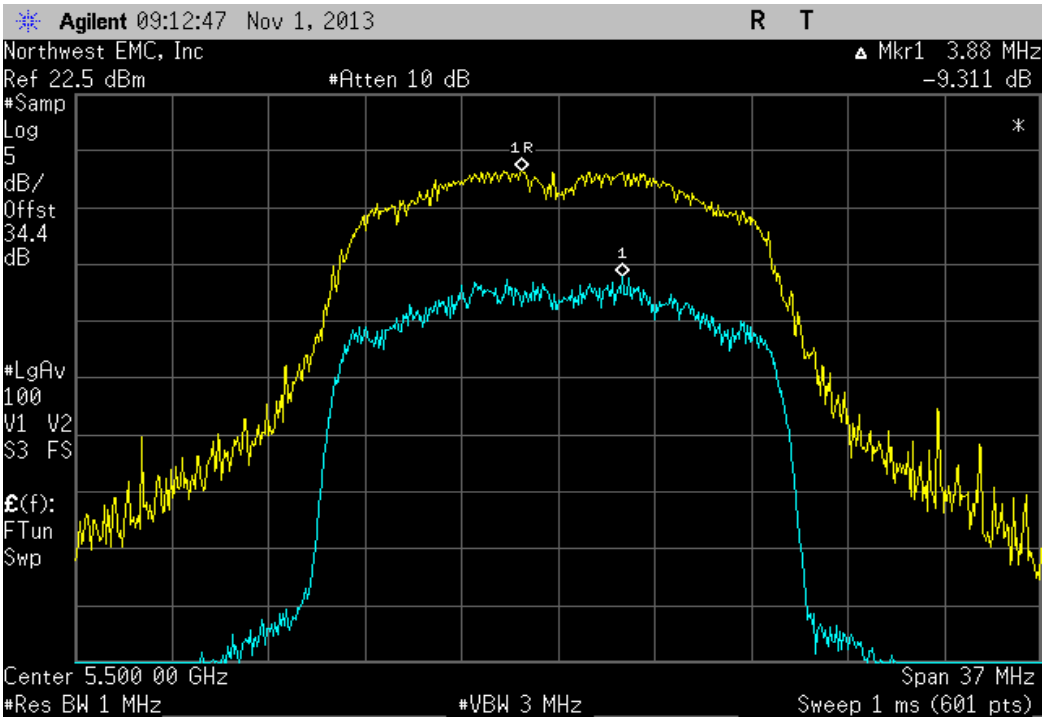
				Value	Limit	Result
				9.884 dB	≤ 13 dB	Pass



Peak Excursion of the Modulation Envelope

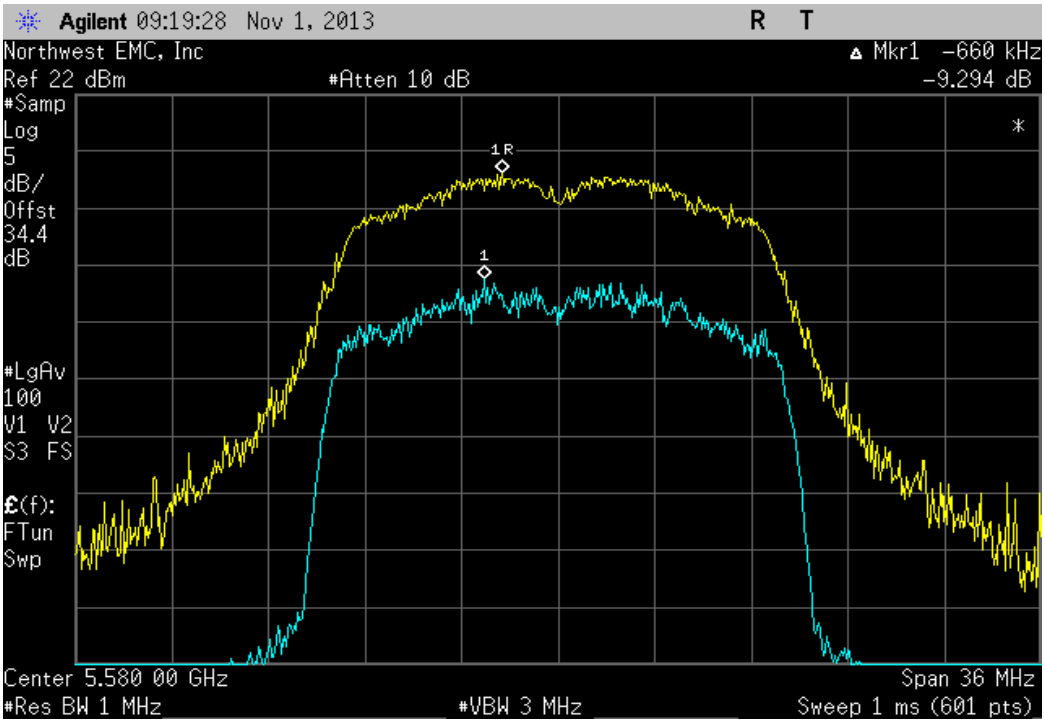
802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel

				Value	Limit	Result
				9.311 dB	≤ 13 dB	Pass



802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel

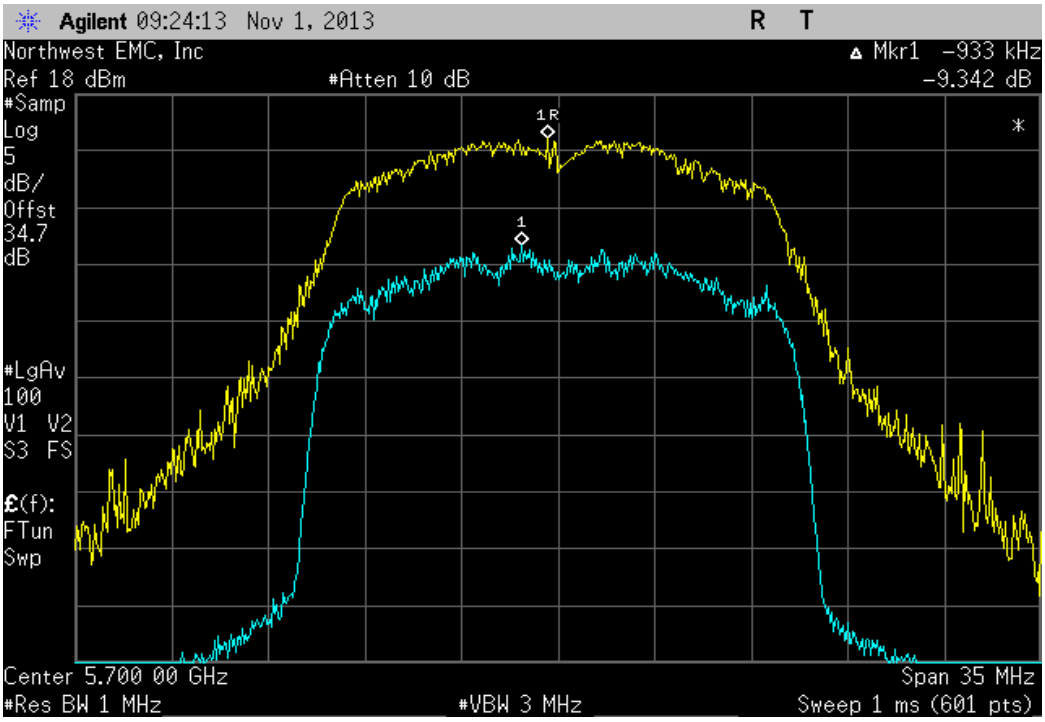
				Value	Limit	Result
				9.294 dB	≤ 13 dB	Pass



Peak Excursion of the Modulation Envelope

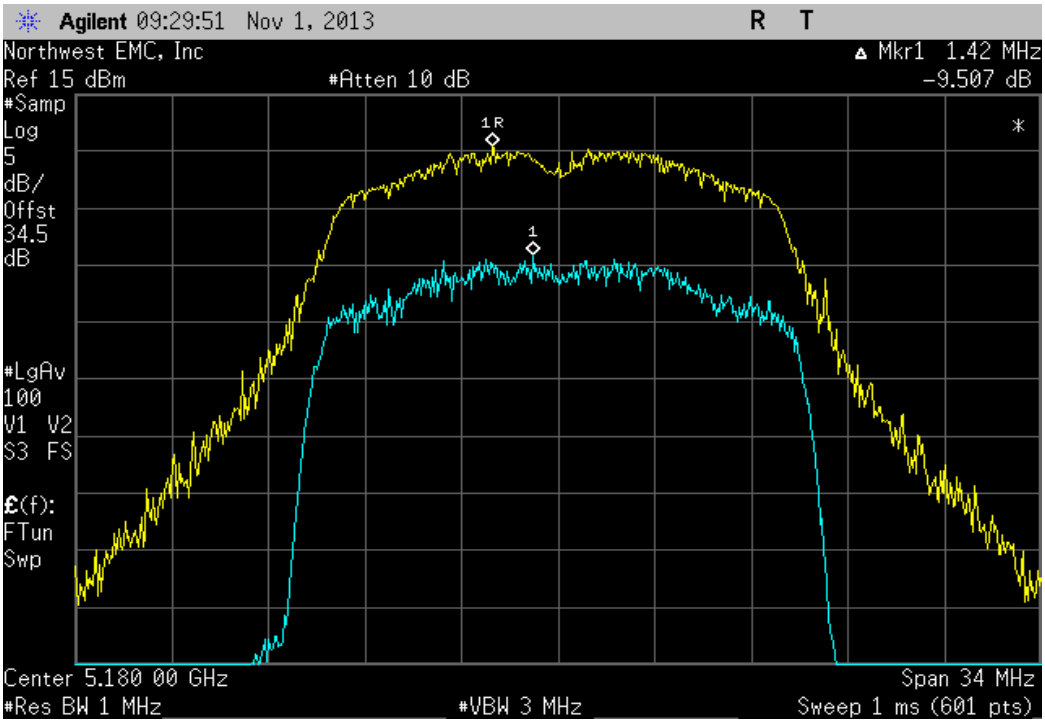
802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel

				Value	Limit	Result
				9.342 dB	≤ 13 dB	Pass



802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel

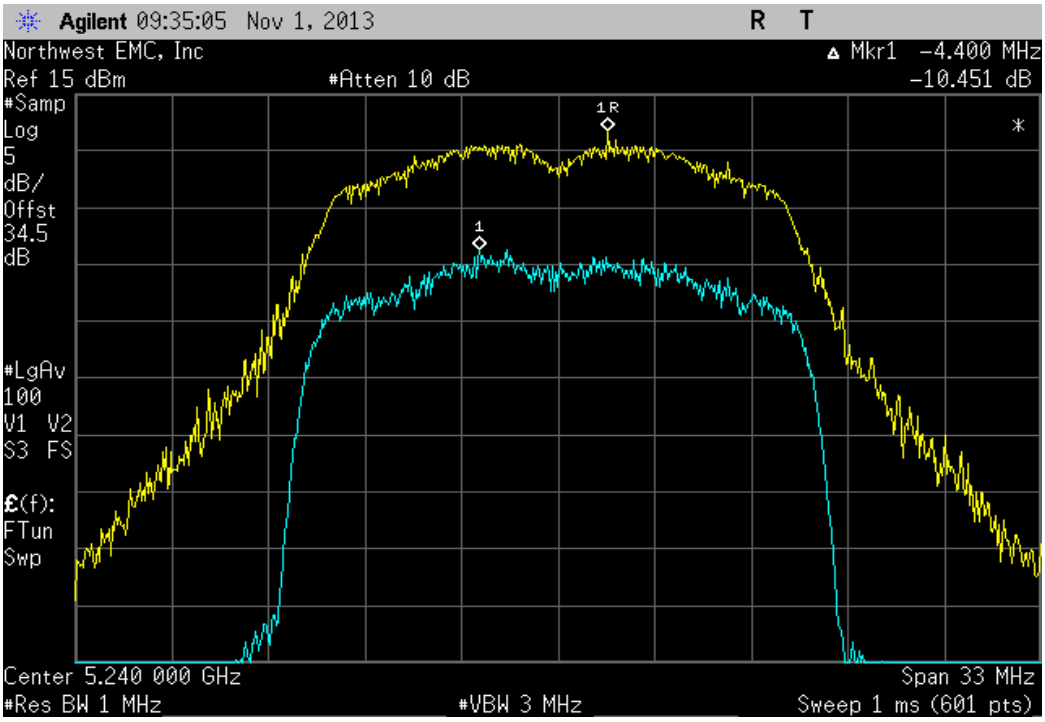
				Value	Limit	Result
				9.507 dB	≤ 13 dB	Pass



Peak Excursion of the Modulation Envelope

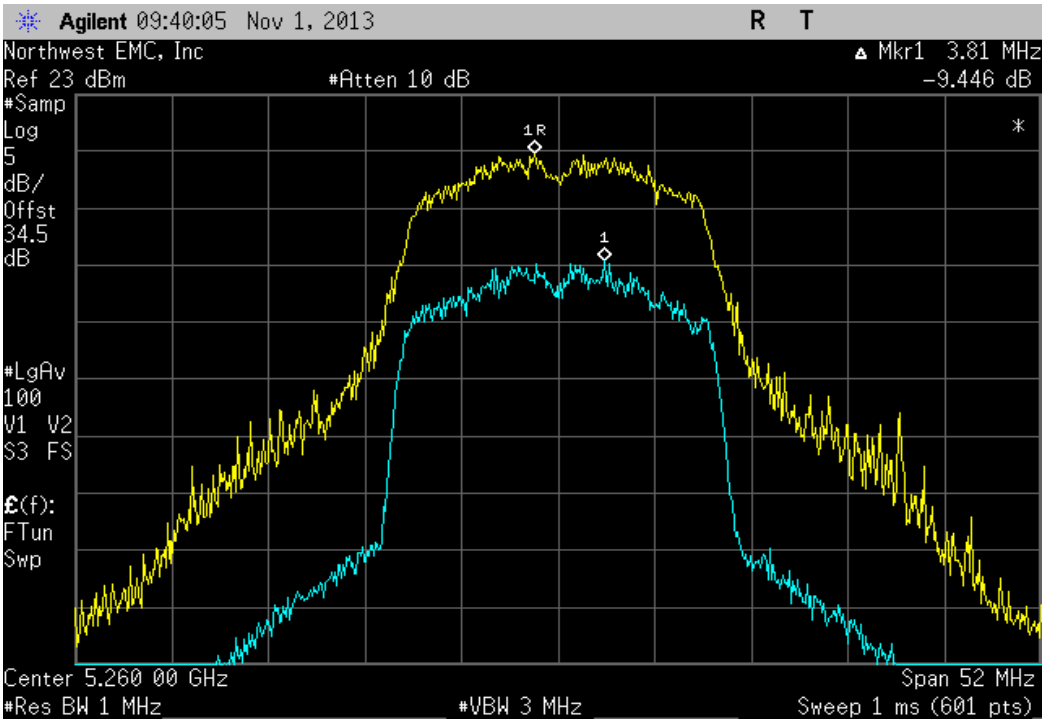
802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel

				Value	Limit	Result
				10.451 dB	≤ 13 dB	Pass



802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel

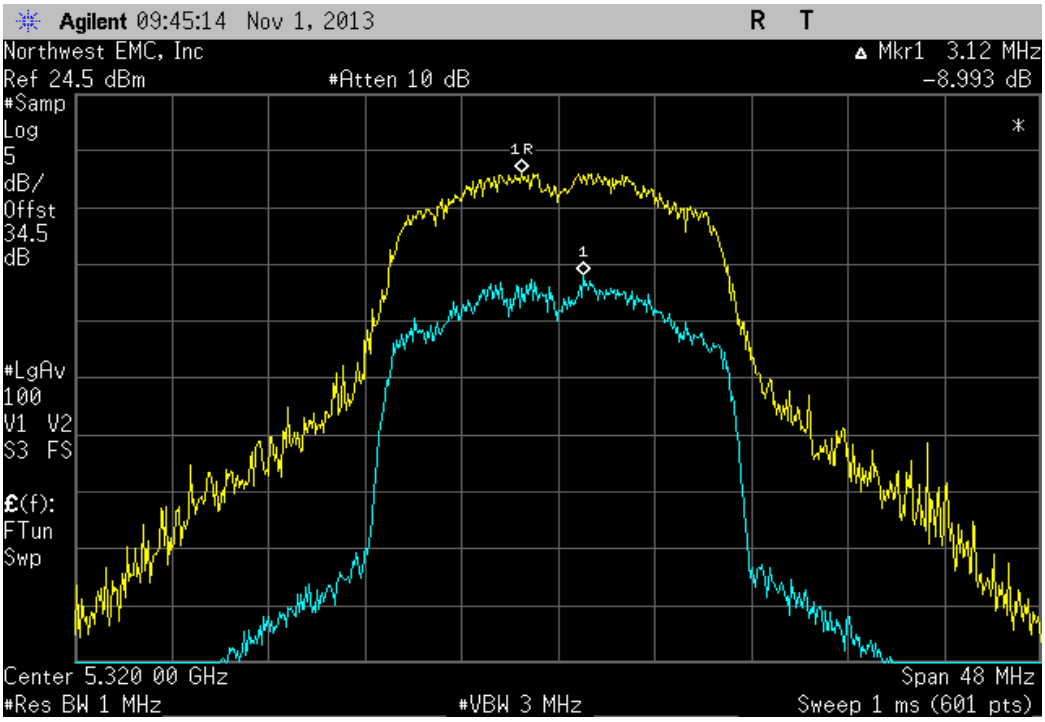
				Value	Limit	Result
				9.446 dB	≤ 13 dB	Pass



Peak Excursion of the Modulation Envelope

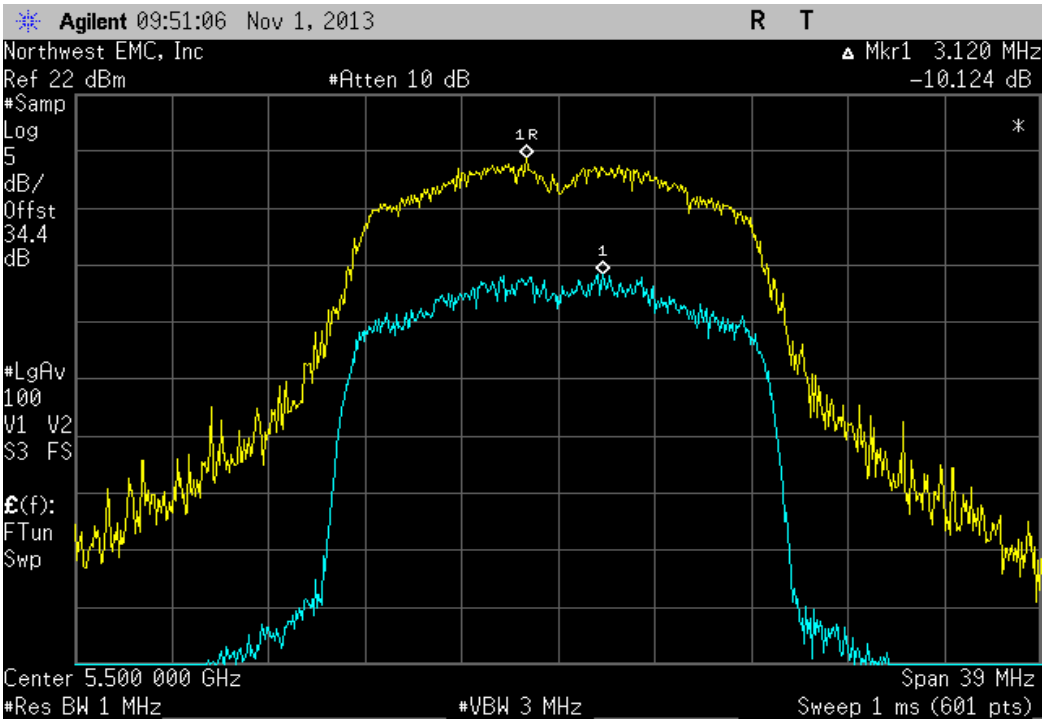
802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel

				Value	Limit	Result
				8.993 dB	≤ 13 dB	Pass



802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel

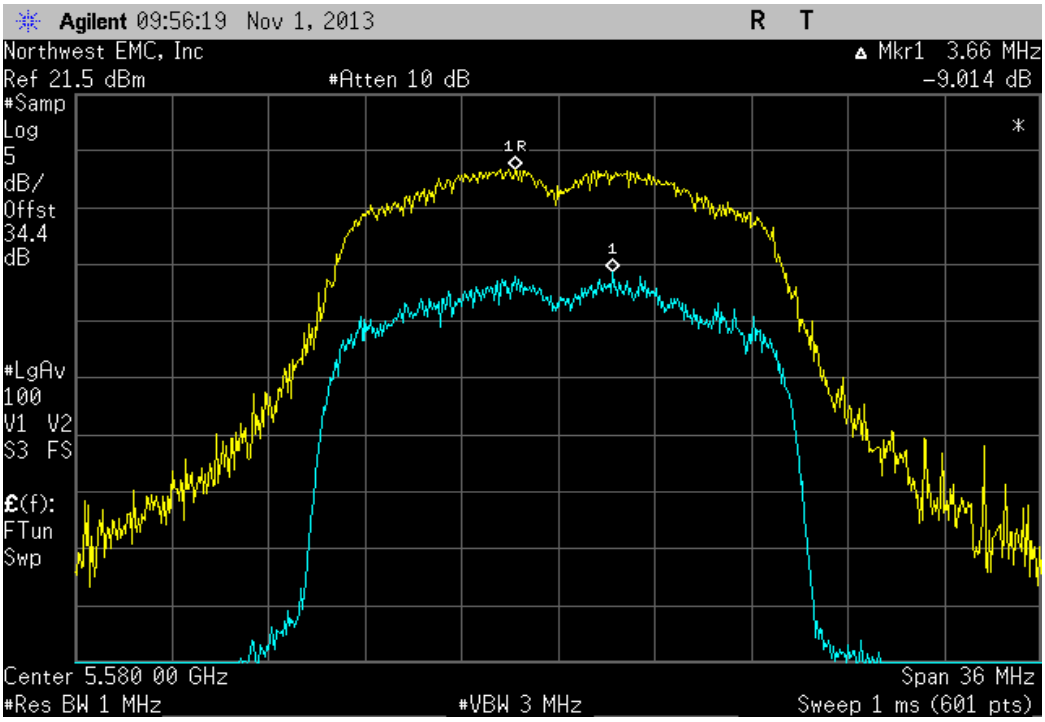
				Value	Limit	Result
				10.124 dB	≤ 13 dB	Pass



Peak Excursion of the Modulation Envelope

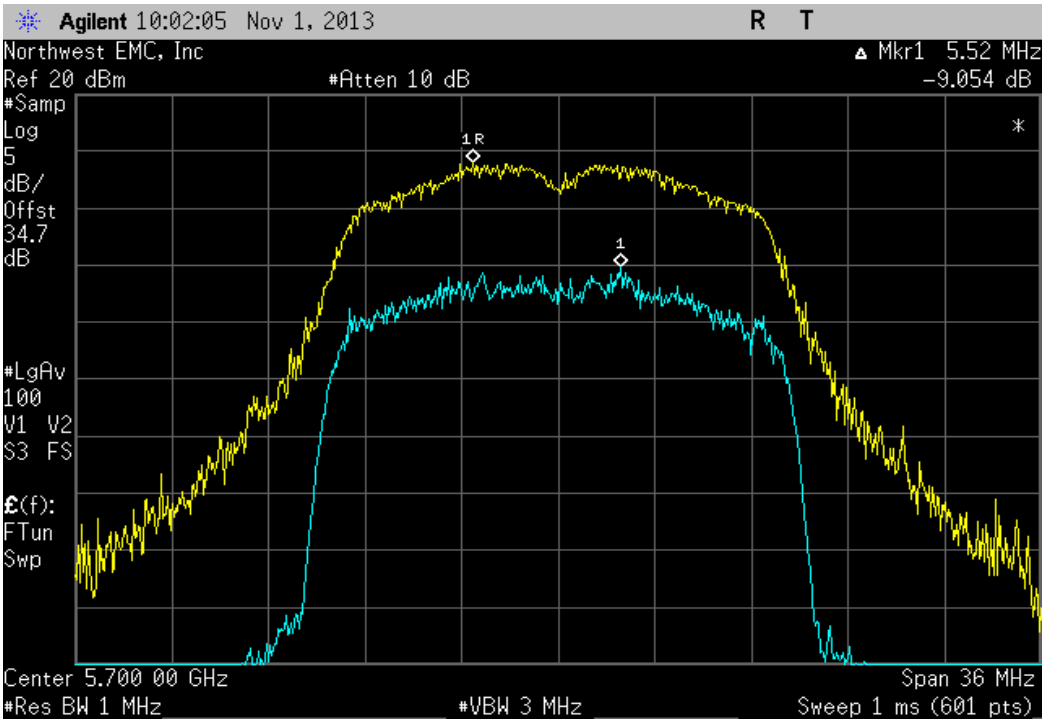
802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel

				Value	Limit	Result
				9.014 dB	≤ 13 dB	Pass



802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel

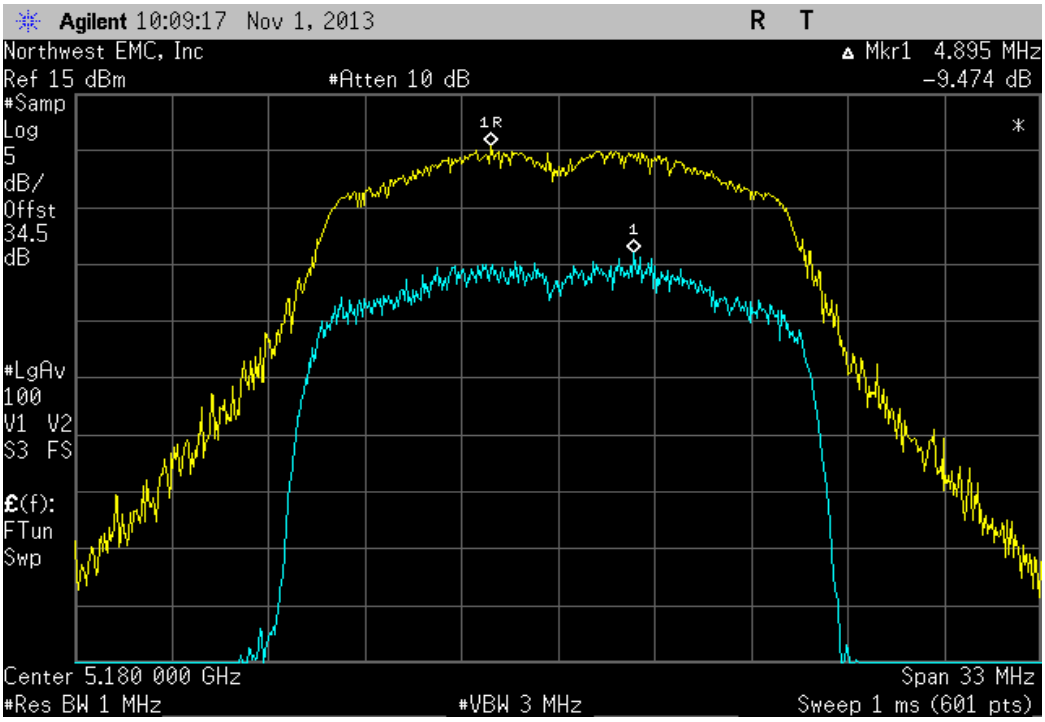
				Value	Limit	Result
				9.054 dB	≤ 13 dB	Pass



Peak Excursion of the Modulation Envelope

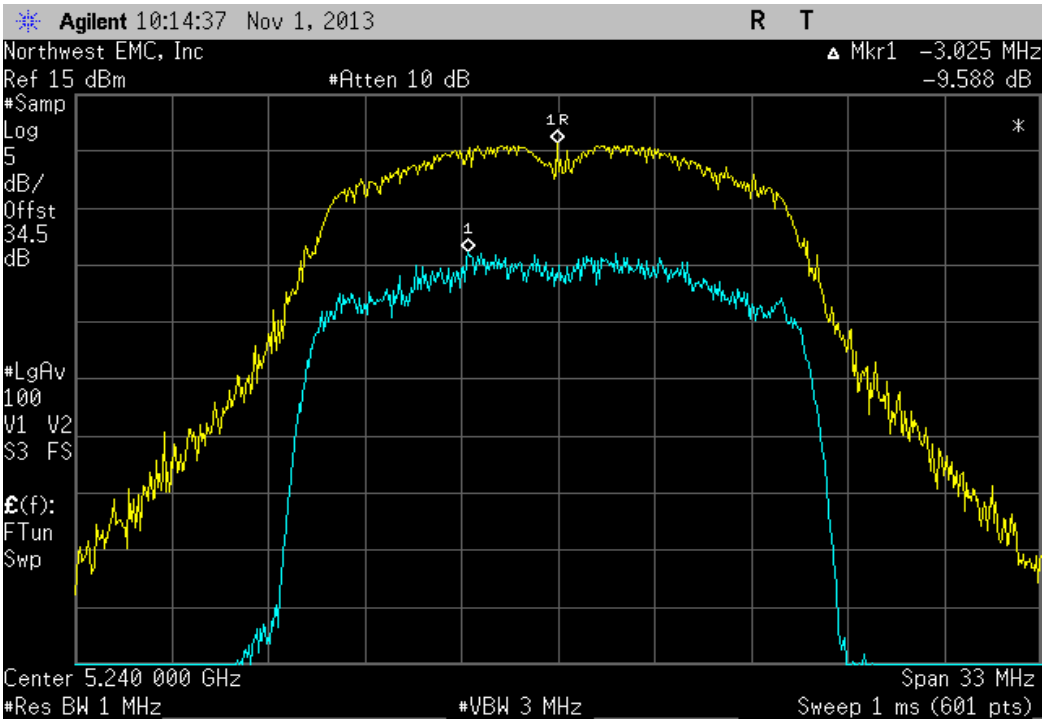
802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel

				Value	Limit	Result
				9.474 dB	≤ 13 dB	Pass



802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel

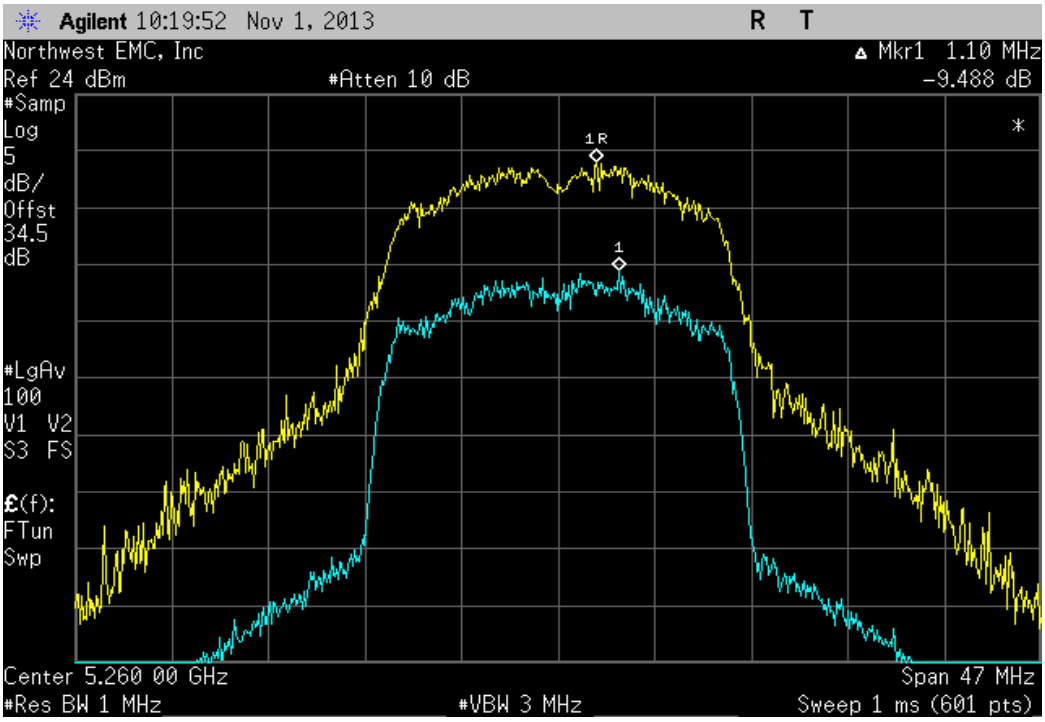
				Value	Limit	Result
				9.588 dB	≤ 13 dB	Pass



Peak Excursion of the Modulation Envelope

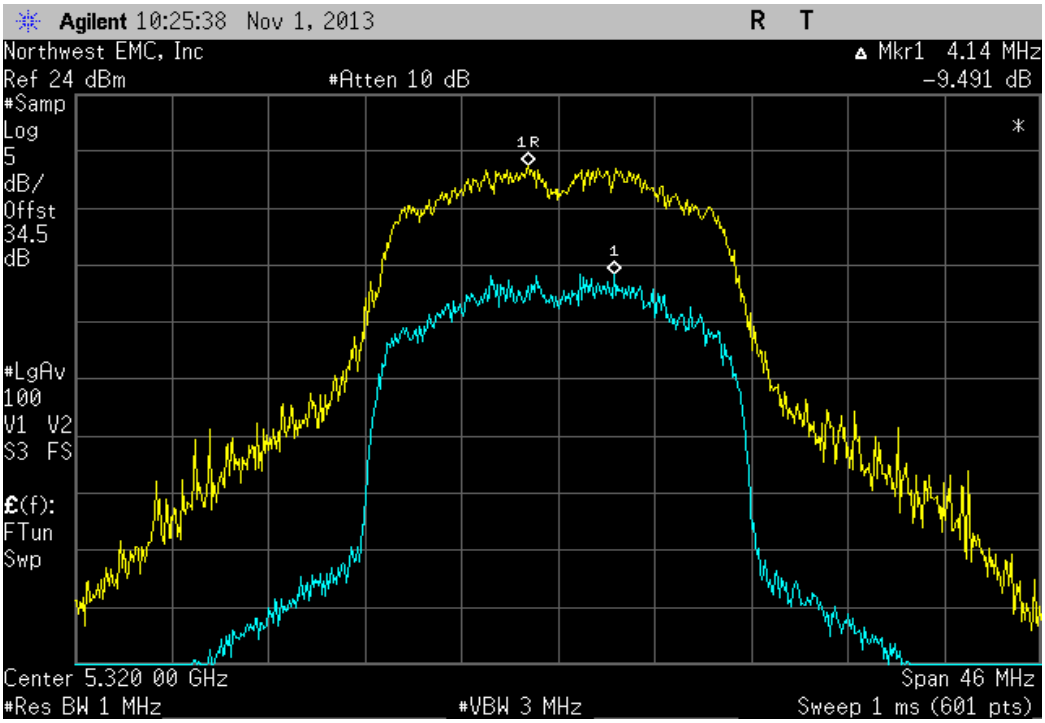
802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel

				Value	Limit	Result
				9.488 dB	≤ 13 dB	Pass



802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel

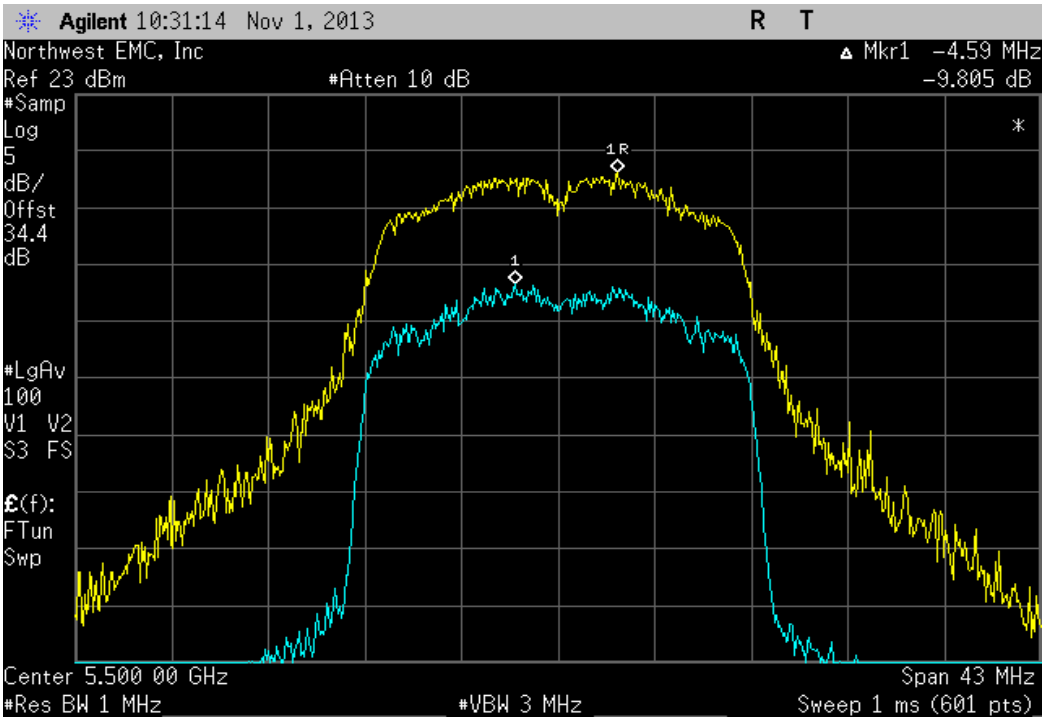
				Value	Limit	Result
				9.491 dB	≤ 13 dB	Pass



Peak Excursion of the Modulation Envelope

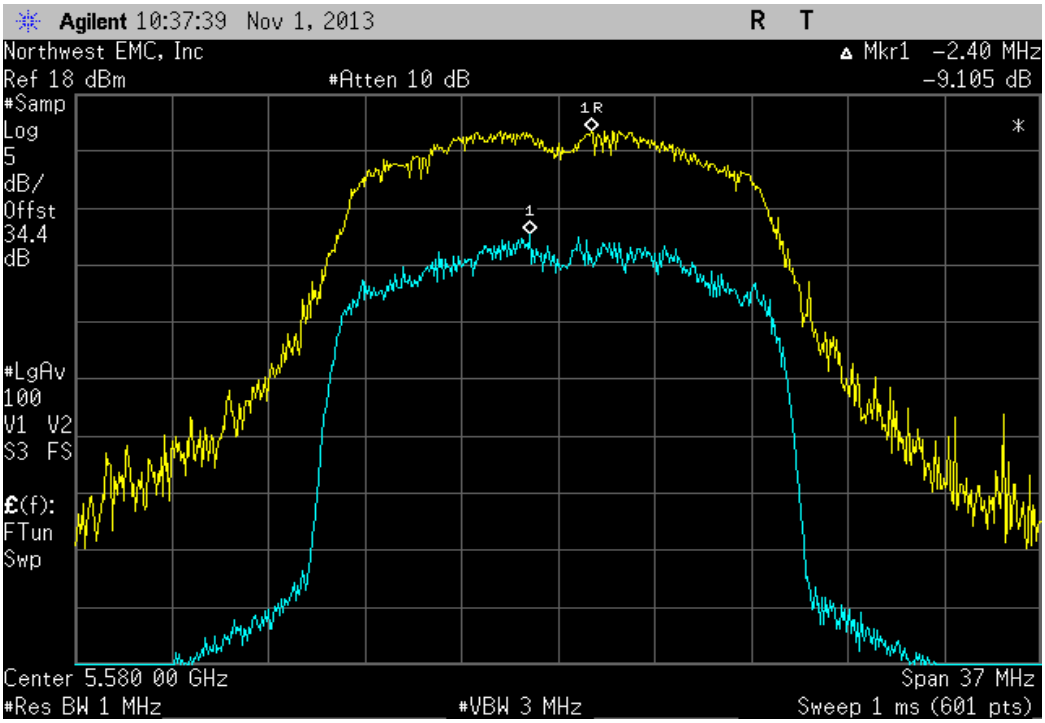
802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel

				Value	Limit	Result
				9.805 dB	≤ 13 dB	Pass



802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel

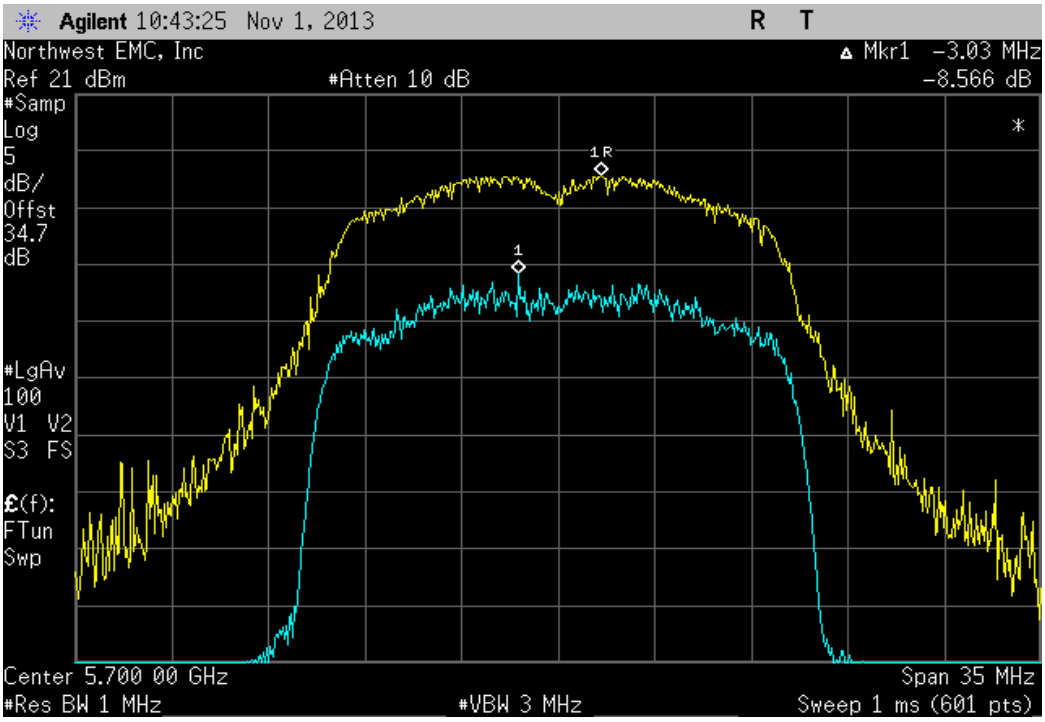
				Value	Limit	Result
				9.105 dB	≤ 13 dB	Pass



Peak Excursion of the Modulation Envelope

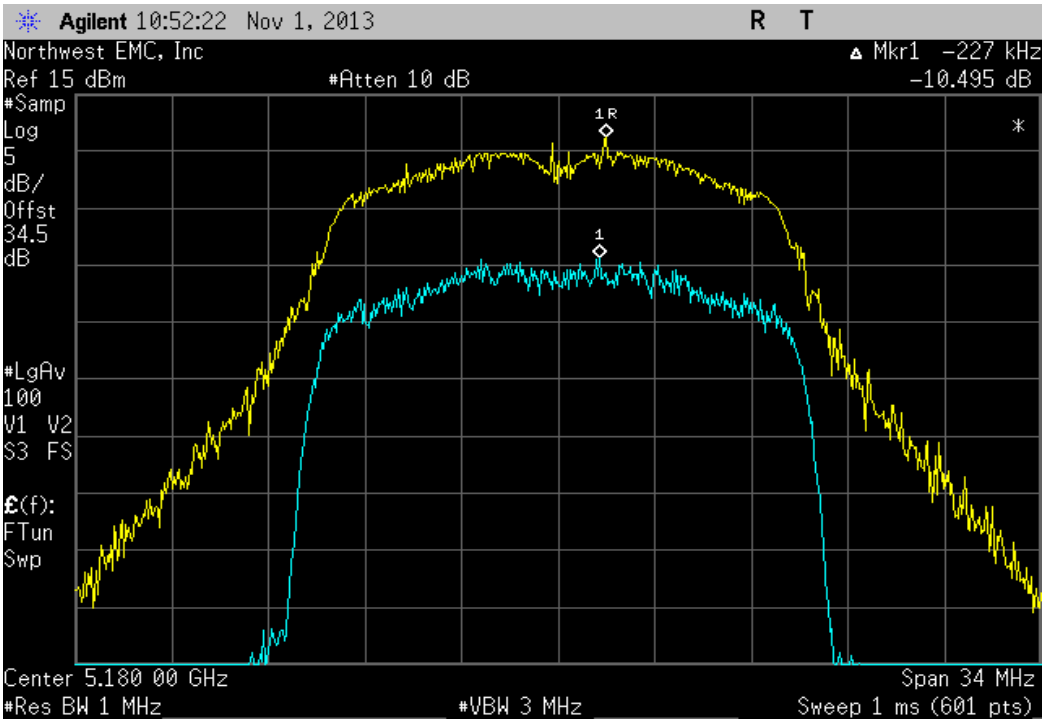
802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel

				Value	Limit	Result
				8.566 dB	≤ 13 dB	Pass



802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 36, Low Channel

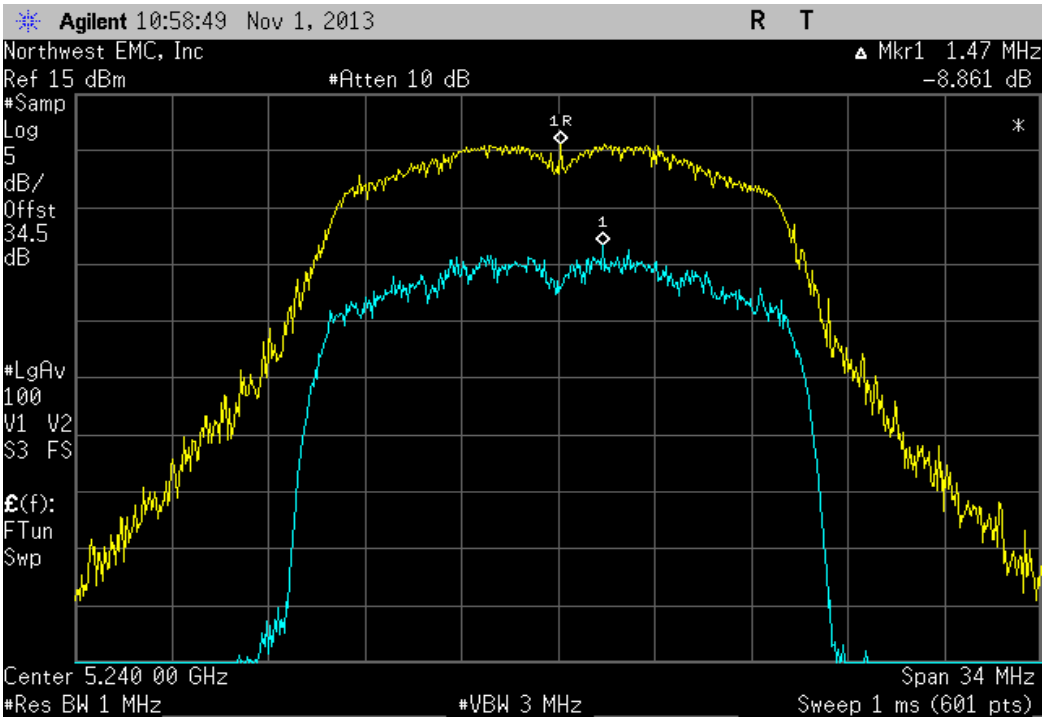
				Value	Limit	Result
				10.495 dB	≤ 13 dB	Pass



Peak Excursion of the Modulation Envelope

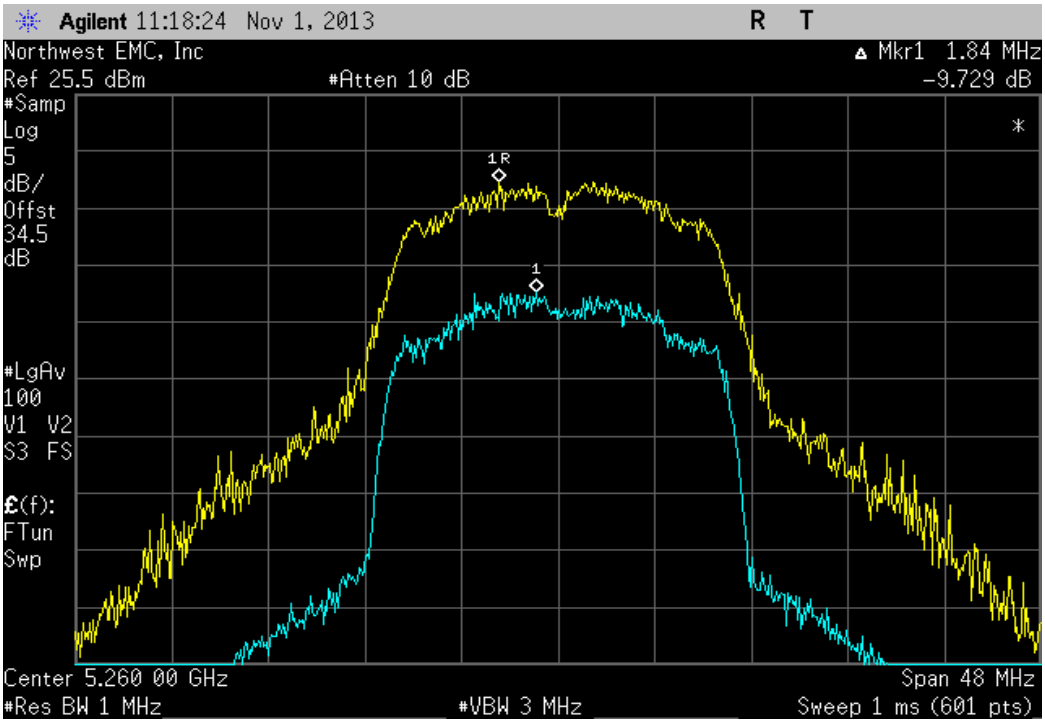
802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 48, High Channel

				Value	Limit	Result
				8.861 dB	≤ 13 dB	Pass



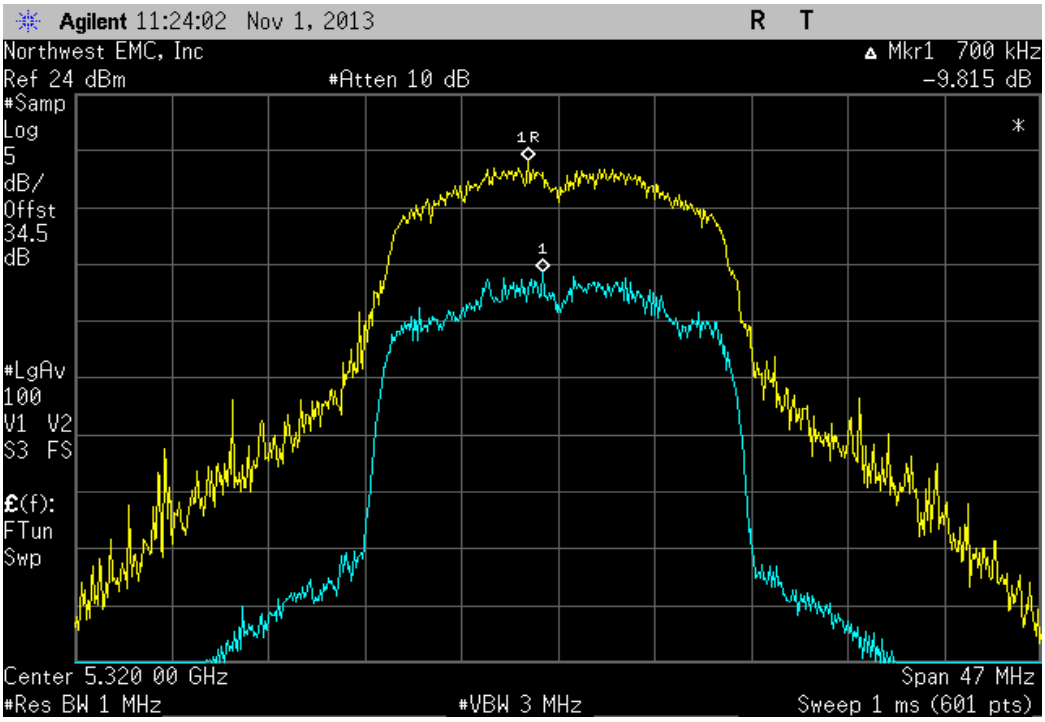
802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 52, Low Channel

				Value	Limit	Result
				9.729 dB	≤ 13 dB	Pass

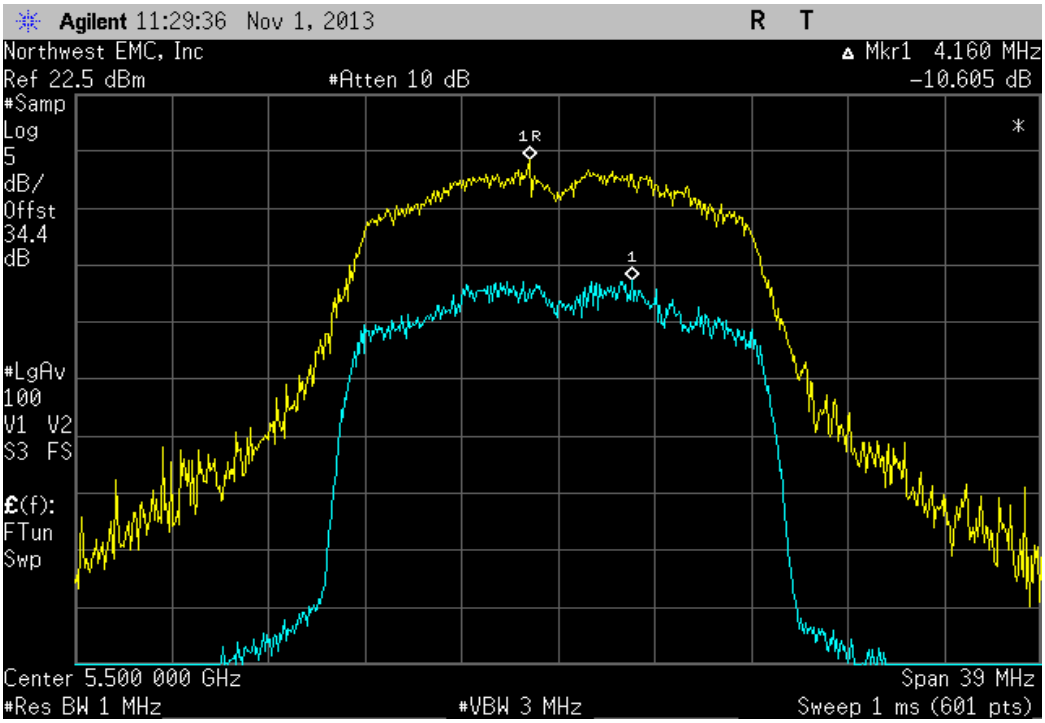


Peak Excursion of the Modulation Envelope

802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 64, High Channel						
				Value	Limit	Result
				9.815 dB	≤ 13 dB	Pass



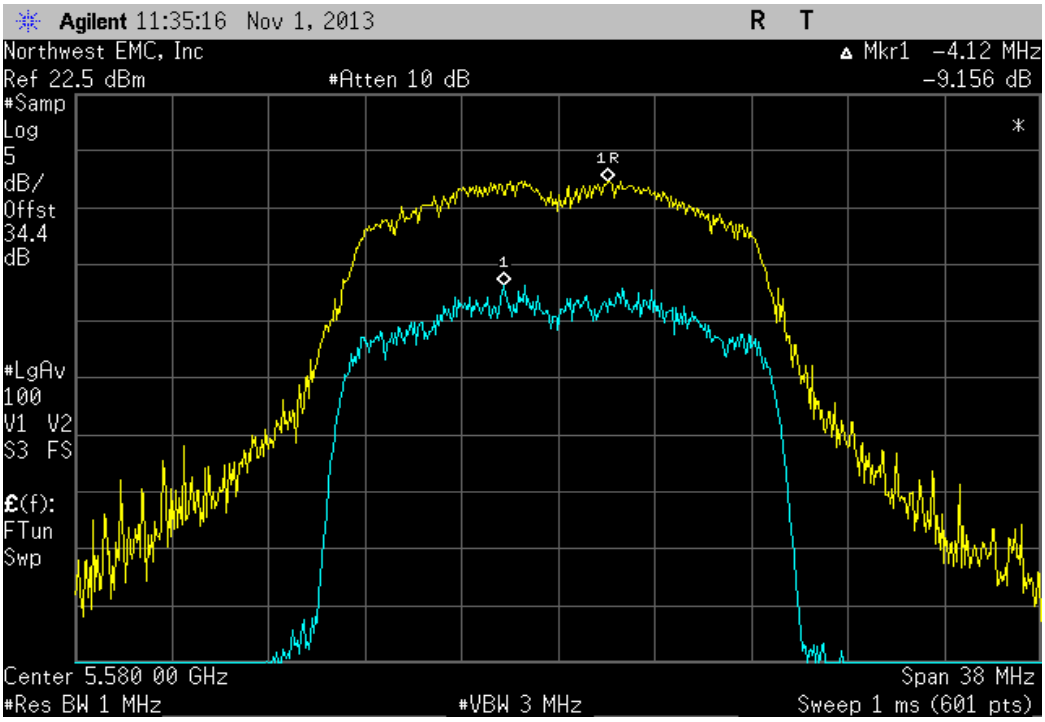
802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 100, Low Channel						
				Value	Limit	Result
				10.605 dB	≤ 13 dB	Pass



Peak Excursion of the Modulation Envelope

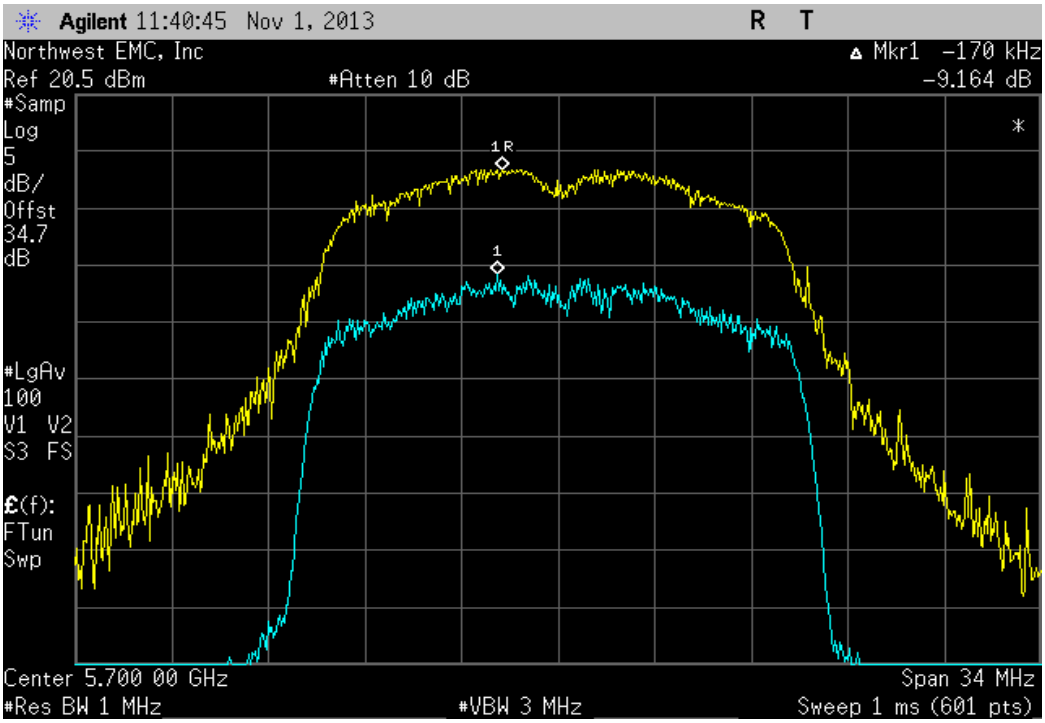
802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 116, Mid Channel

				Value	Limit	Result
				9.156 dB	≤ 13 dB	Pass



802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 140, High Channel

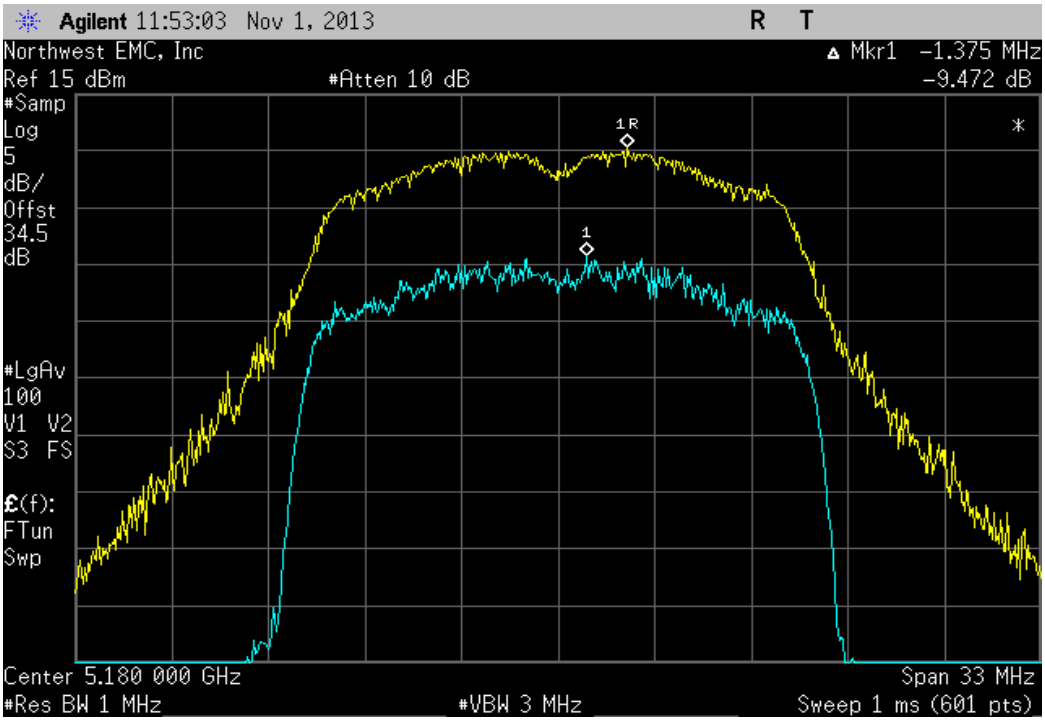
				Value	Limit	Result
				9.164 dB	≤ 13 dB	Pass



Peak Excursion of the Modulation Envelope

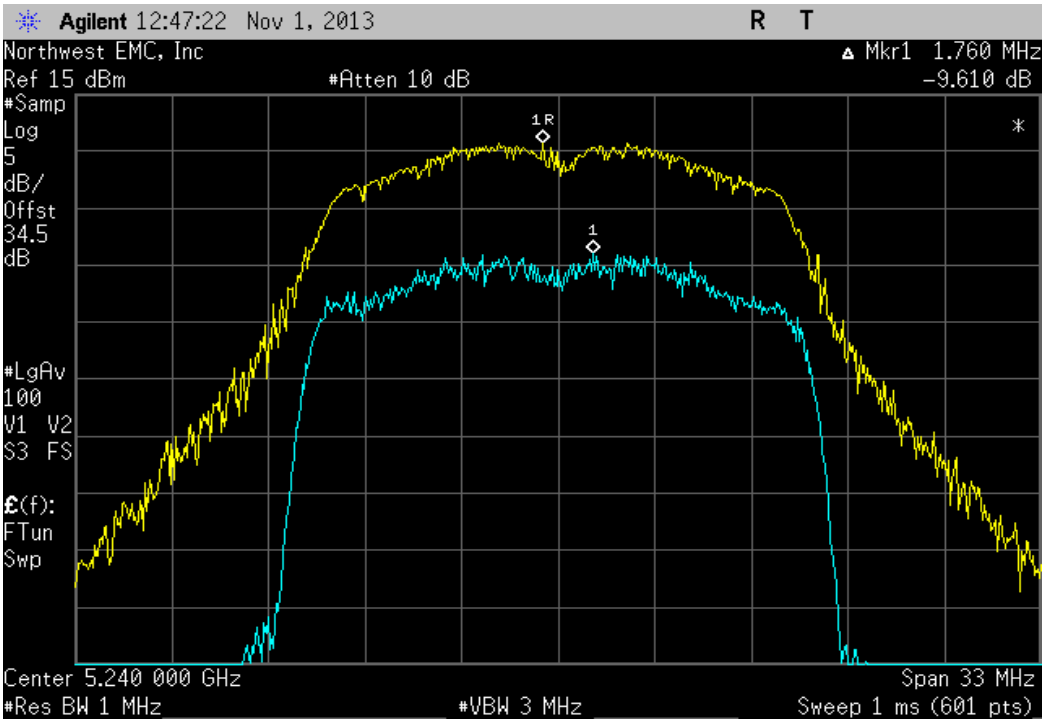
802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 36, Low Channel

				Value	Limit	Result
				9.472 dB	≤ 13 dB	Pass



802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 48, High Channel

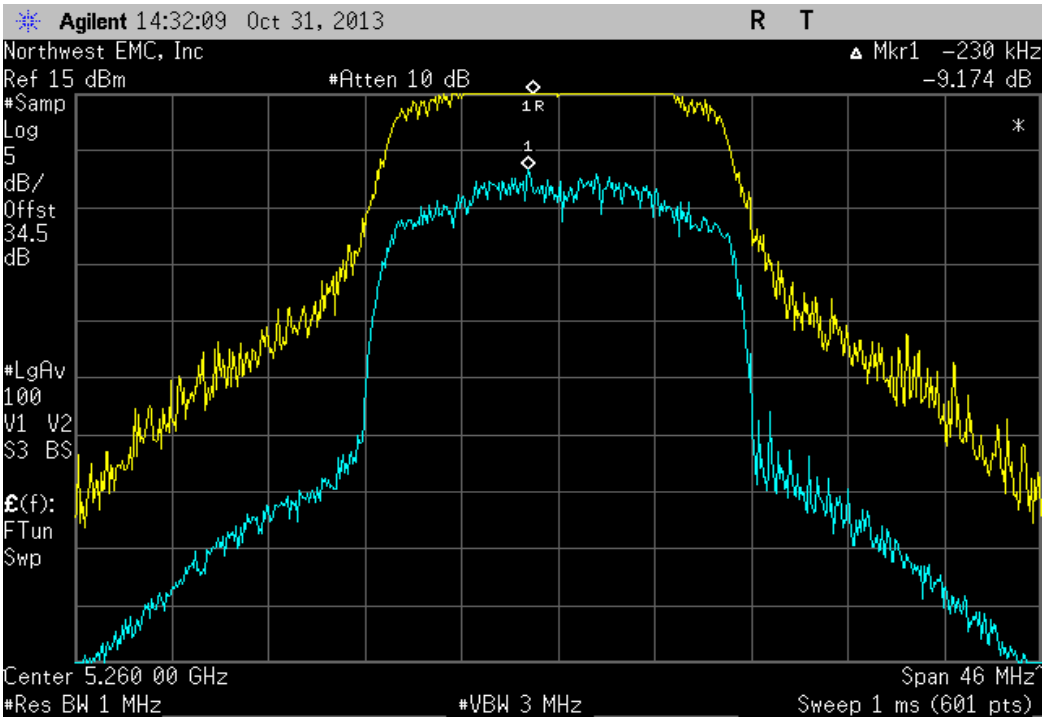
				Value	Limit	Result
				9.61 dB	≤ 13 dB	Pass



Peak Excursion of the Modulation Envelope

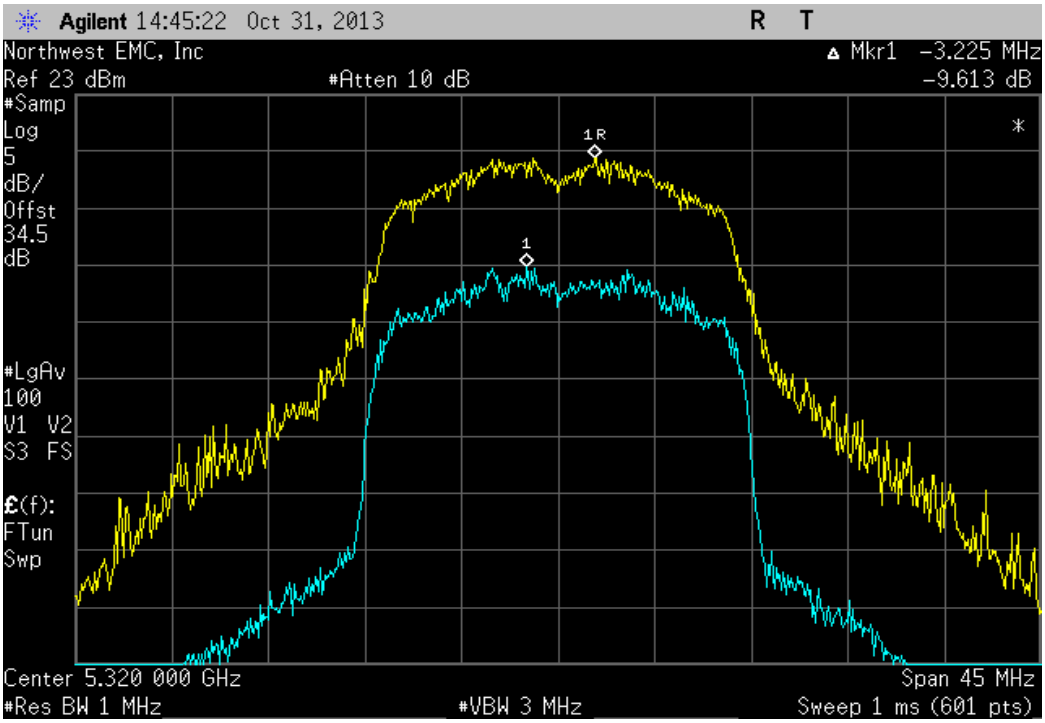
802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 52, Low Channel

				Value	Limit	Result
				9.174 dB	≤ 13 dB	Pass



802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 64, High Channel

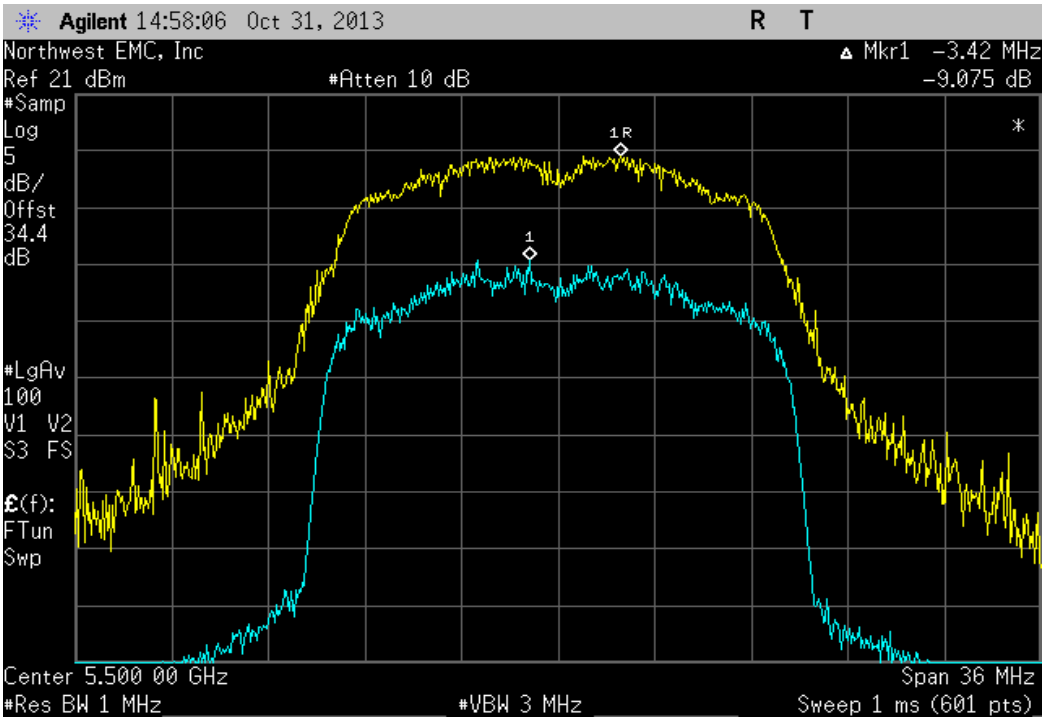
				Value	Limit	Result
				9.613 dB	≤ 13 dB	Pass



Peak Excursion of the Modulation Envelope

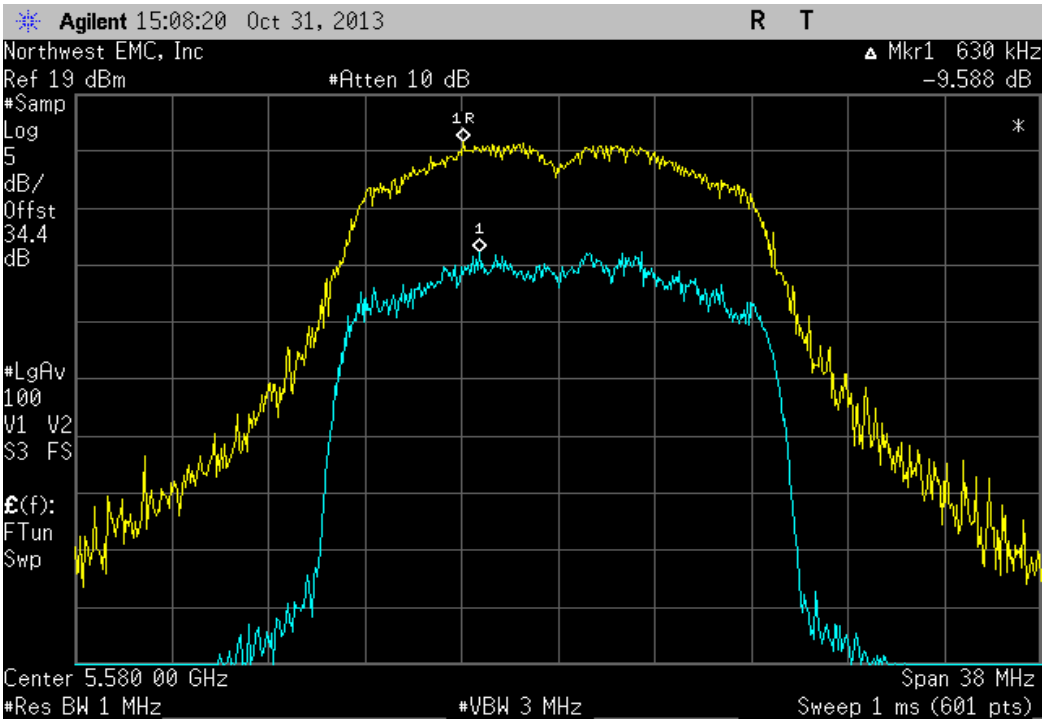
802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 100, Low Channel

				Value	Limit	Result
				9.075 dB	≤ 13 dB	Pass



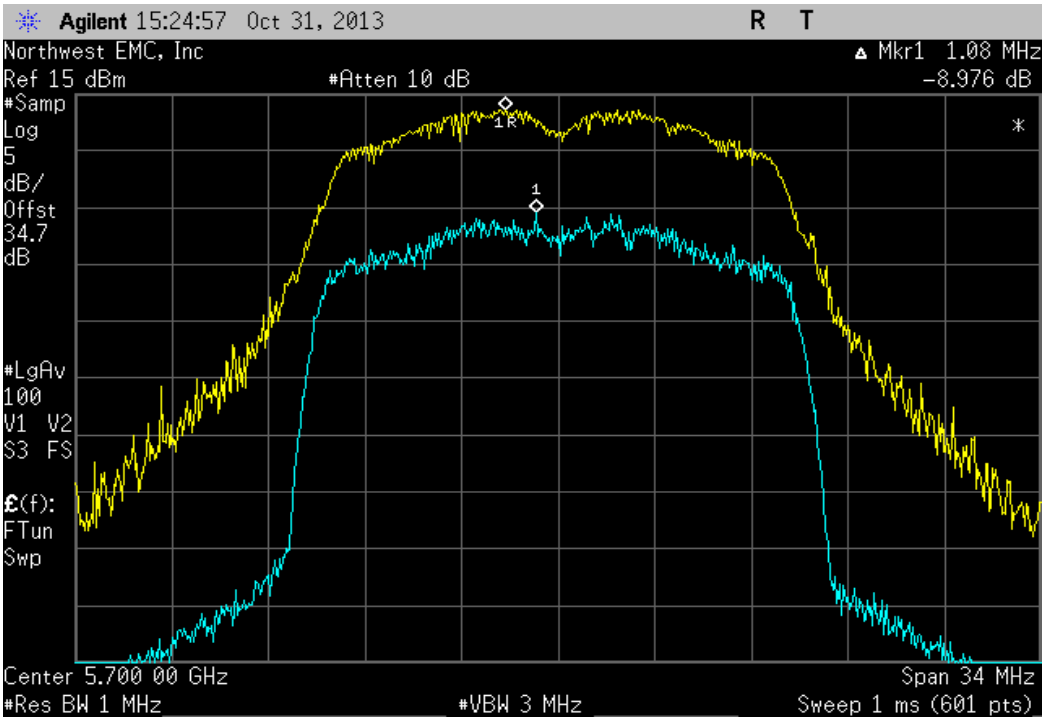
802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 116, Mid Channel

				Value	Limit	Result
				9.588 dB	≤ 13 dB	Pass



Peak Excursion of the Modulation Envelope

802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 140, High Channel						
				Value	Limit	Result
				8.976 dB	≤ 13 dB	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
Attenuator, 'Precision N'	S.M. Electronics	SA18N-06/SM4032	REE	12/11/2012	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	NCR	0
Power Meter	Gigatronics	8651A	SPM	1/9/2012	24
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	36
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
40GHz DC Block	Miteq	DCB4000	AMD	5/16/2013	12
Spectrum Analyzer	Agilent	E4446A	AAQ	2/7/2012	24

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 each available 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 data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge.

Power Setting by Band:
5180MHz – 5240MHz, Power setting of 5000
5260MHz – 5320MHz, Power setting of 14000
5500MHz – 5700MHz, Power setting of 14000

Band Edge Compliance

EUT:	The EGG	Work Order:	INSD0001
Serial Number:	99	Date:	11/01/13
Customer:	Intel Corporation	Temperature:	22.2°C
Attendees:	None	Humidity:	42%
Project:	None	Barometric Pres.:	1015
Tested by:	Brandon Hobbs	Power: 4 VDC	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 15.407:2013	ANSI C63.10:2009

COMMENTS

The device was running at ≥ 99% duty cycle. The operating instructions for data rate and channel selection were provided by the client.

DEVIATIONS FROM TEST STANDARD

None

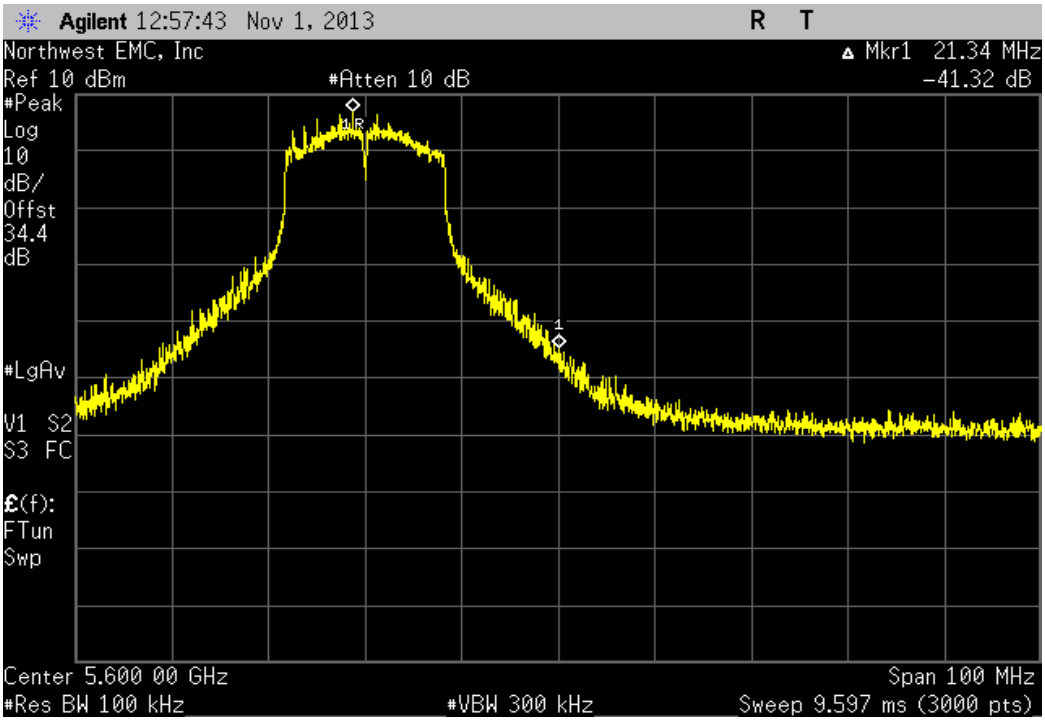
Configuration #	2	Signature

		Value	Limit	Result
802.11(a) 6 Mbps				
	5600 MHz Band Edge			
	Channel 116, 5580 MHz	-41.32 dBc	≤ -20 dBc	Pass
	5650 MHz Band Edge			
	Channel 132, 5660 MHz	-26.45 dBc	≤ -20 dBc	Pass
802.11(a) 36 Mbps				
	5600 MHz Band Edge			
	Channel 116, 5580 MHz	-41.49 dBc	≤ -20 dBc	Pass
	5650 MHz Band Edge			
	Channel 132, 5660 MHz	-25.12 dBc	≤ -20 dBc	Pass
802.11(a) 54 Mbps				
	5600 MHz Band Edge			
	Channel 116, 5580 MHz	-40.71 dBc	≤ -20 dBc	Pass
	5650 MHz Band Edge			
	Channel 132, 5660 MHz	-26.82 dBc	≤ -20 dBc	Pass
802.11(n) MCS0				
	5600 MHz Band Edge			
	Channel 116, 5580 MHz	-42.14 dBc	≤ -20 dBc	Pass
	5650 MHz Band Edge			
	Channel 132, 5660 MHz	-24.92 dBc	≤ -20 dBc	Pass
802.11(n) MCS7				
	5600 MHz Band Edge			
	Channel 116, 5580 MHz	-41.65 dBc	≤ -20 dBc	Pass
	5650 MHz Band Edge			
	Channel 132, 5660 MHz	-22.61 dBc	≤ -20 dBc	Pass

Band Edge Compliance

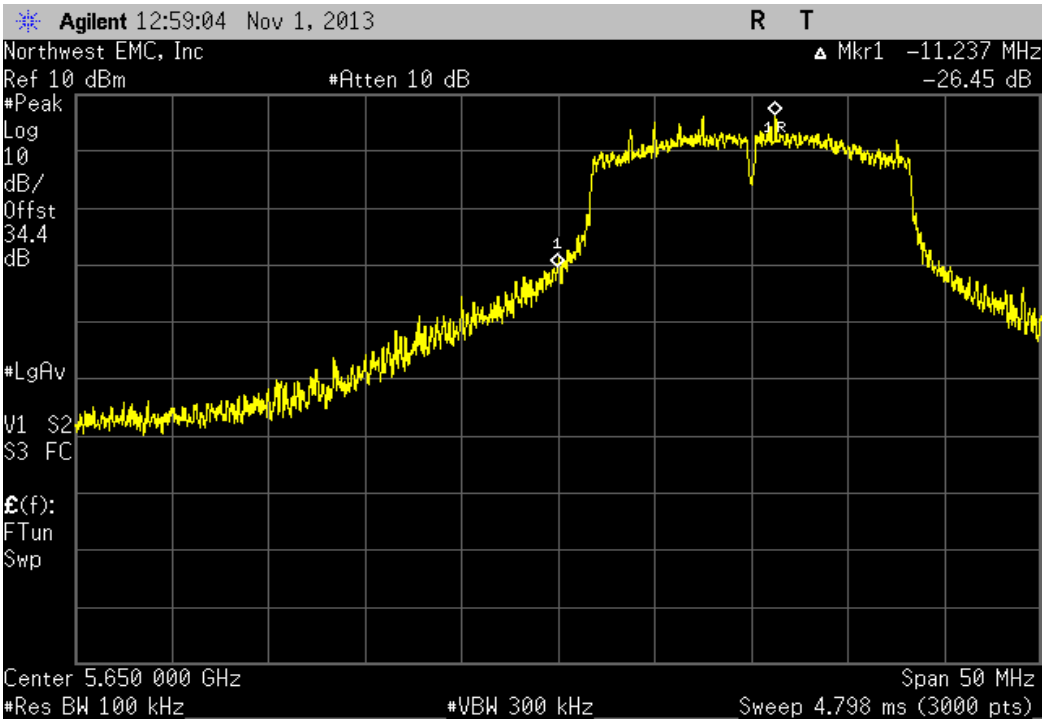
802.11(a) 6 Mbps, 5600 MHz Band Edge, Channel 116, 5580 MHz

				Value	Limit	Result
				-41.32 dBc	≤ -20 dBc	Pass



802.11(a) 6 Mbps, 5650 MHz Band Edge, Channel 132, 5660 MHz

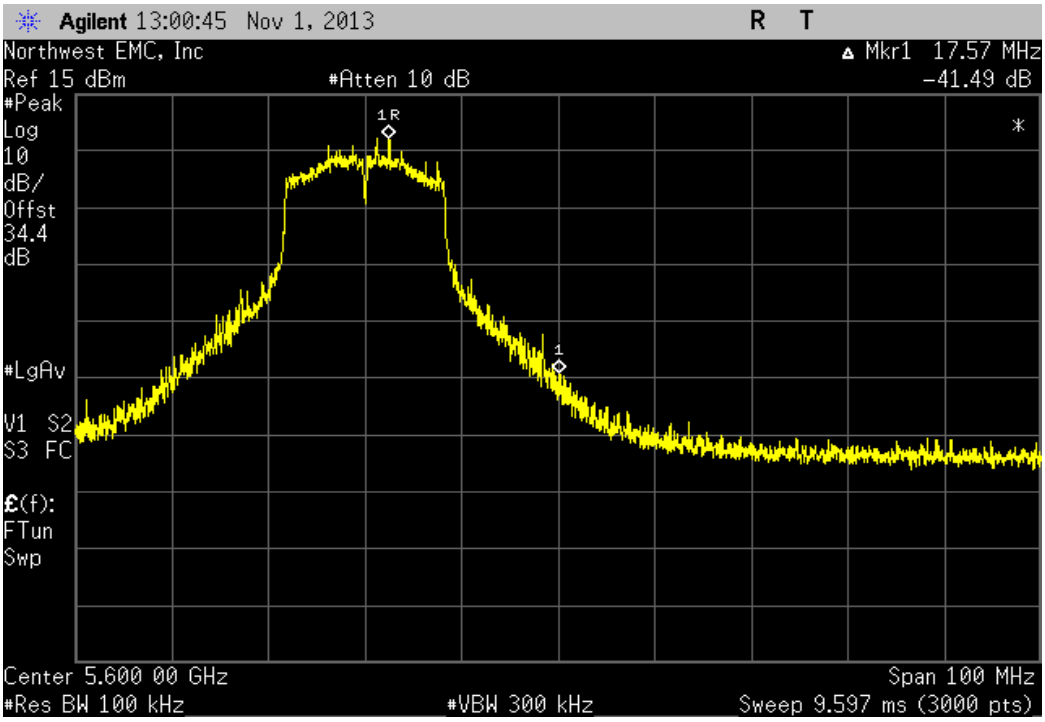
				Value	Limit	Result
				-26.45 dBc	≤ -20 dBc	Pass



Band Edge Compliance

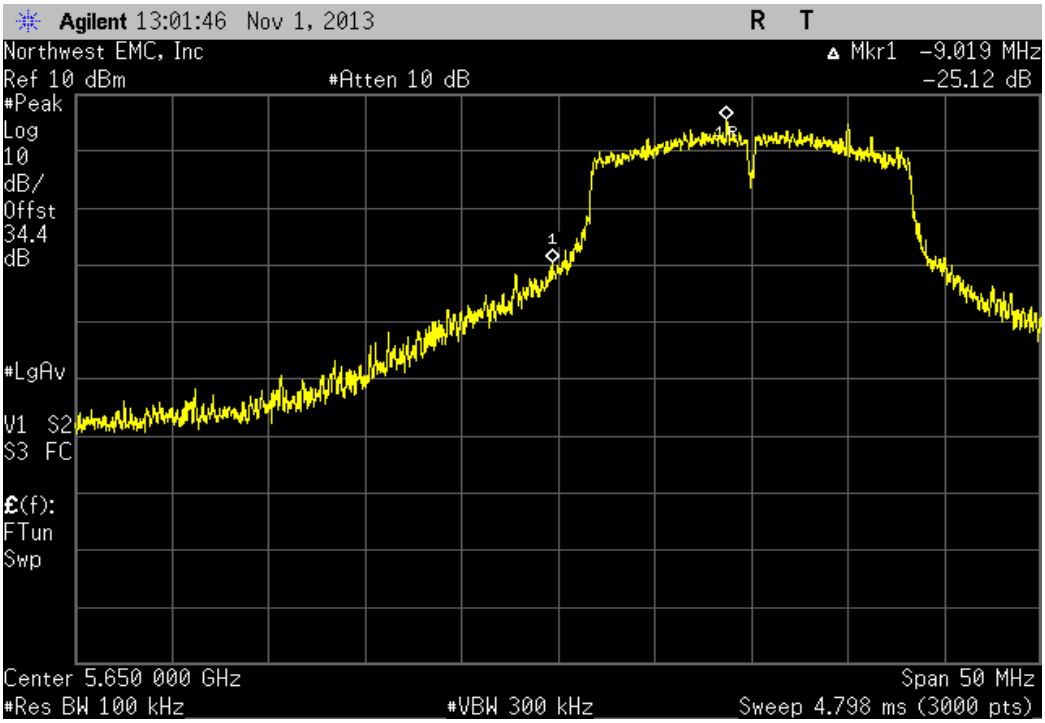
802.11(a) 36 Mbps, 5600 MHz Band Edge, Channel 116, 5580 MHz

				Value	Limit	Result
				-41.49 dBc	≤ -20 dBc	Pass



802.11(a) 36 Mbps, 5650 MHz Band Edge, Channel 132, 5660 MHz

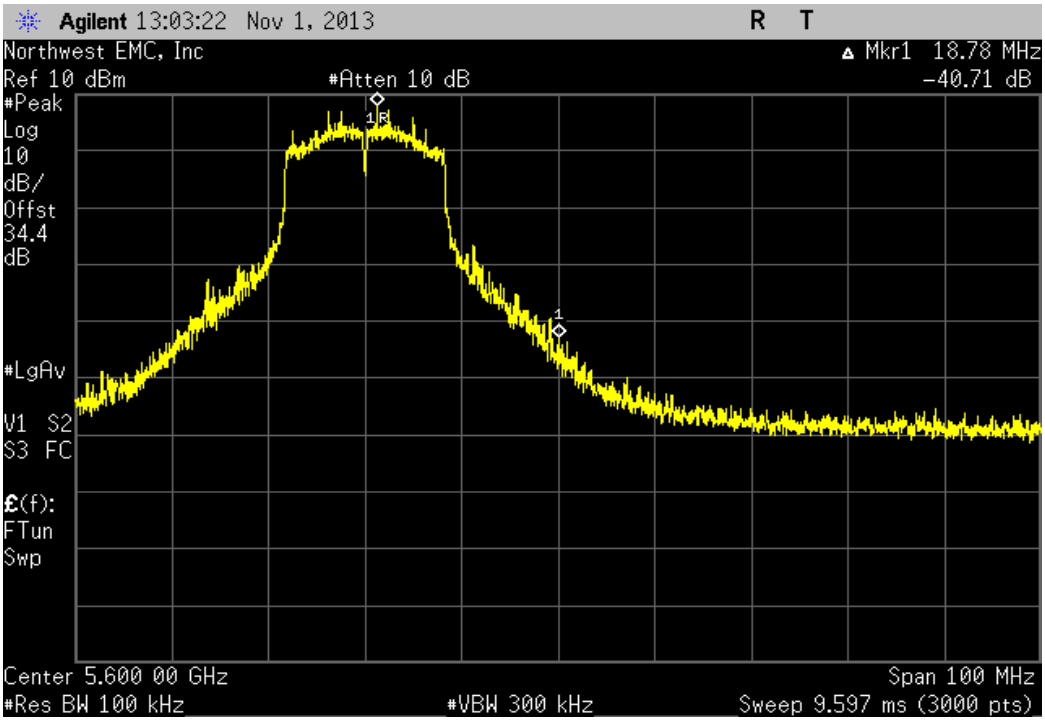
				Value	Limit	Result
				-25.12 dBc	≤ -20 dBc	Pass



Band Edge Compliance

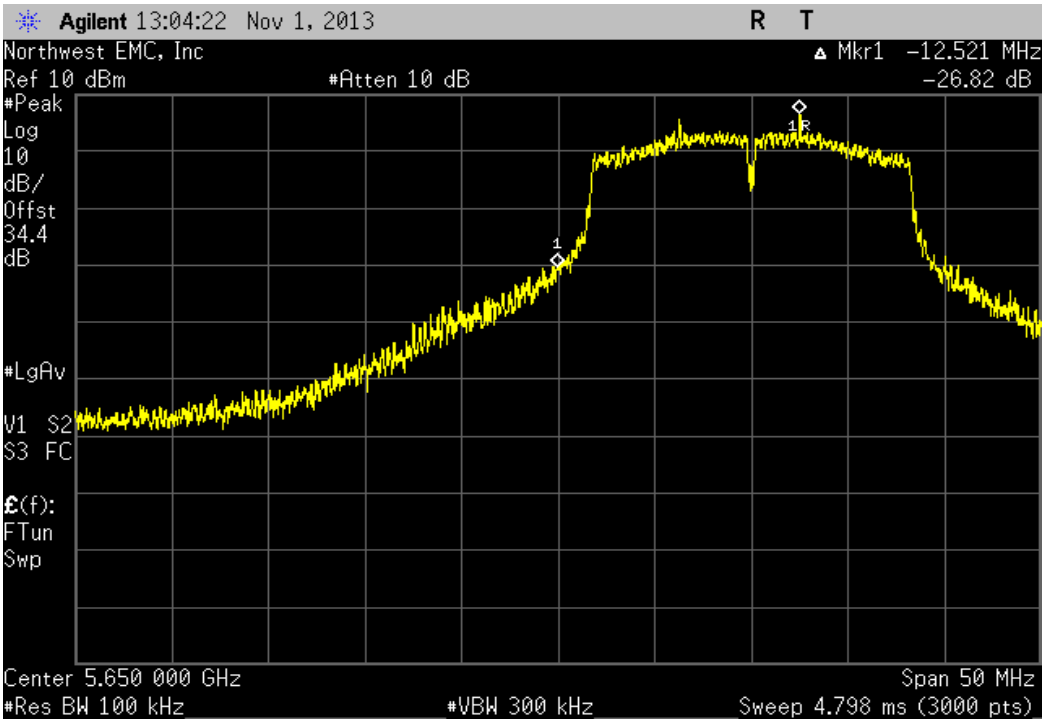
802.11(a) 54 Mbps, 5600 MHz Band Edge, Channel 116, 5580 MHz

				Value	Limit	Result
				-40.71 dBc	≤ -20 dBc	Pass



802.11(a) 54 Mbps, 5650 MHz Band Edge, Channel 132, 5660 MHz

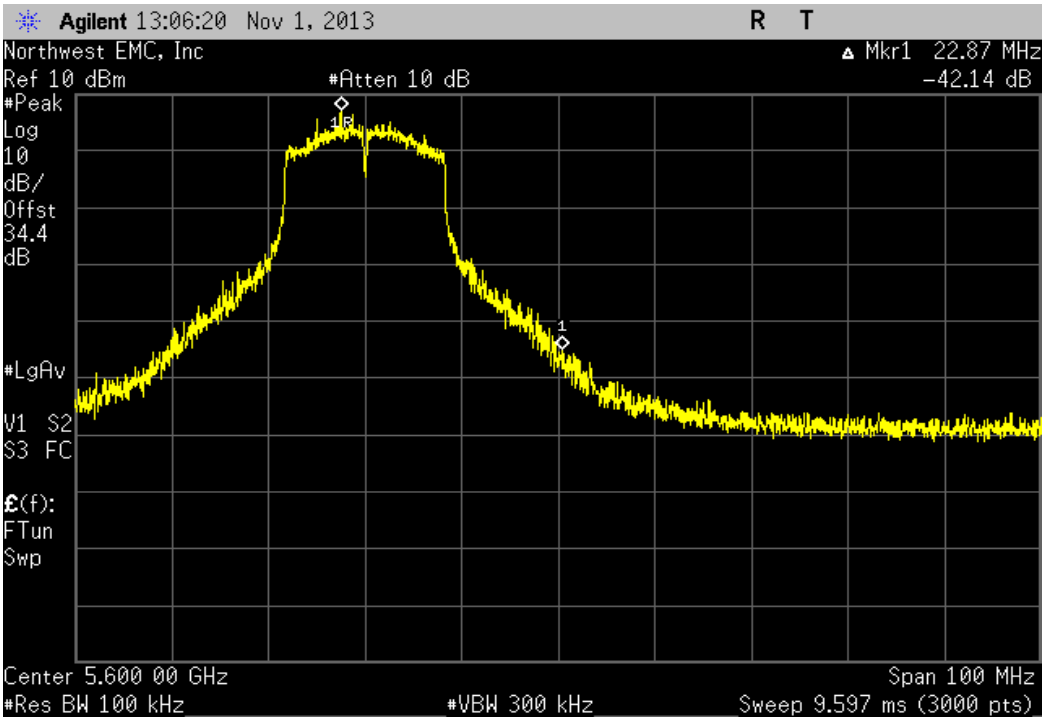
				Value	Limit	Result
				-26.82 dBc	≤ -20 dBc	Pass



Band Edge Compliance

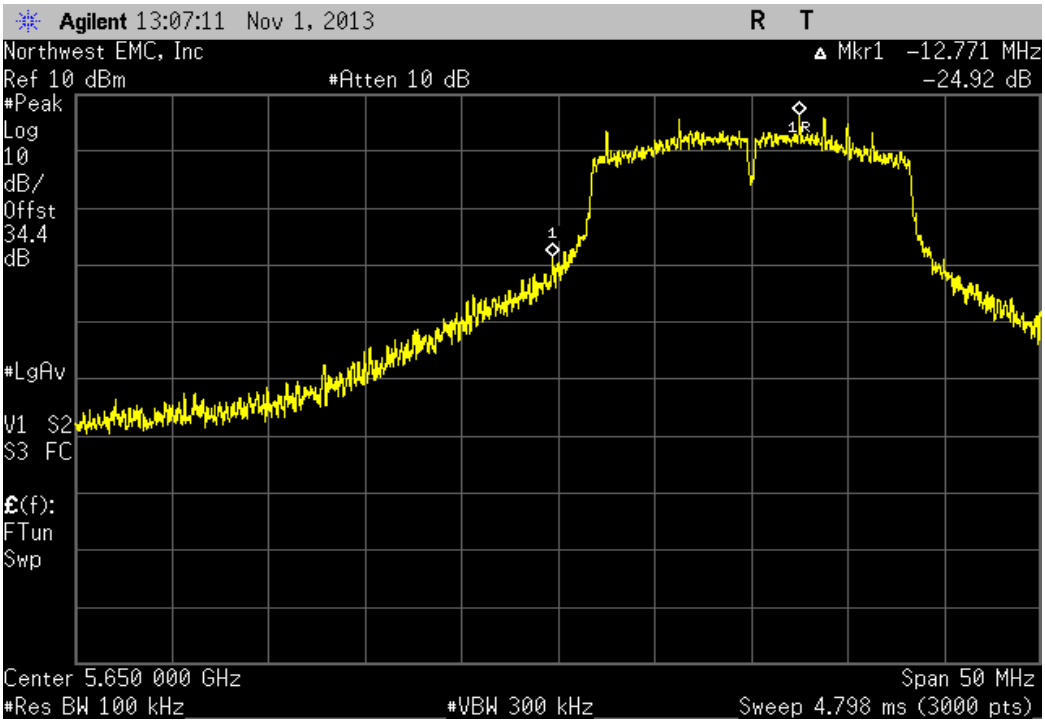
802.11(n) MCS0, 5600 MHz Band Edge, Channel 116, 5580 MHz

				Value	Limit	Result
				-42.14 dBc	≤ -20 dBc	Pass



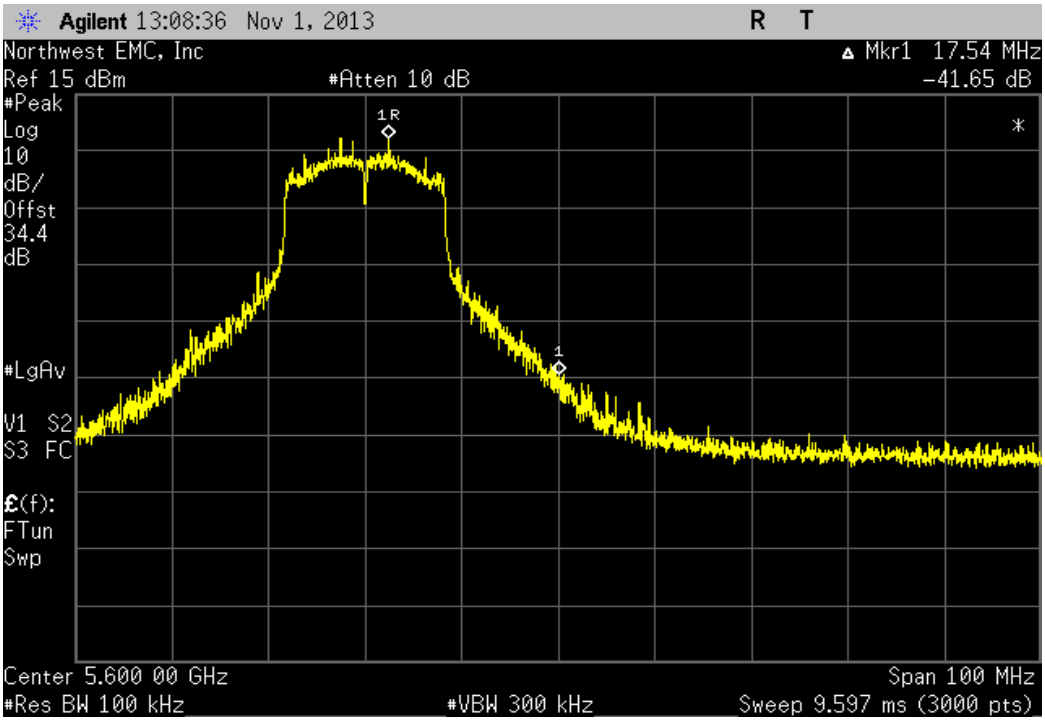
802.11(n) MCS0, 5650 MHz Band Edge, Channel 132, 5660 MHz

				Value	Limit	Result
				-24.92 dBc	≤ -20 dBc	Pass



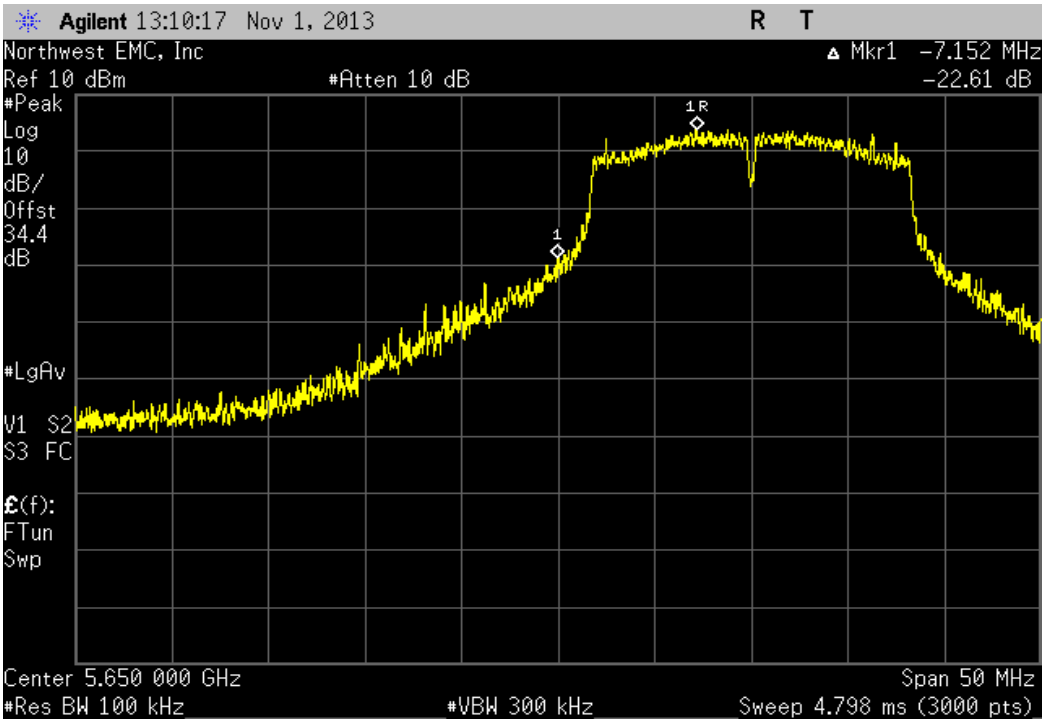
802.11(n) MCS7, 5600 MHz Band Edge, Channel 116, 5580 MHz

				Value	Limit	Result
				-41.65 dBc	≤ -20 dBc	Pass



802.11(n) MCS7, 5650 MHz Band Edge, Channel 132, 5660 MHz

				Value	Limit	Result
				-22.61 dBc	≤ -20 dBc	Pass



Frequency Stability

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
DC Power Supply	Topward	TPS-2000	TPD	NCR	0
Humidity Temperature Meter	Omegaette	HH311	DTY	3/29/2011	36
Multimeter	Tektronix	DMM912	MMH	2/5/2013	24
Temp./Humidity Chamber	Cincinnati Sub Zero (CSZ)	ZH-32-2-2-H/AC	TBA	NCR	0
Attenuator, 'Precision N'	S.M. Electronics	SA18N-06/SM4032	REE	12/11/2012	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	NCR	0
Power Meter	Gigatronics	8651A	SPM	1/9/2012	24
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	36
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
40GHz DC Block	Miteq	DCB4000	AMD	5/16/2013	12
Spectrum Analyzer	Agilent	E4446A	AAQ	2/7/2012	24

TEST DESCRIPTION

A direct connect measurement was made between the EUT's antenna cable and a spectrum analyzer. The spectrum analyzer is equipped with a precision frequency reference that exceeds the stability requirement of the EUT.

Measurements were made at the edges of the main transmit bands as called out on the data sheets. Testing was done with an absence of modulation in a CW mode of operation.

The primary supply voltage was varied from 85 % to 115% of the nominal voltage Using a temperature chamber, the transmit frequency was recorded at the extremes of the specified temperature range (-30 ° to +50° C) and at 10°C intervals.

Per the requirements of FCC 15.407:

"Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual."

No specific limits are provided in either FCC 15.407, the product specific rule part, or FCC 2.1055, the equipment authorization procedure for testing frequency stability. While there are no limits called out, any results less than 100ppm will still allow the radio to be operating within the band.

Frequency Stability

EUT:	The EGG	Work Order:	INSD0001
Serial Number:	99	Date:	11/06/13
Customer:	Intel Corporation	Temperature:	22.2°C
Attendees:	Phil Auzas	Humidity:	42%
Project:	None	Barometric Pres.:	1015
Tested by:	Brandon Hobbs	Job Site:	EV06
Power:	4 VDC		

TEST SPECIFICATIONS	Test Method
FCC 15.407:2013	ANSI C63.10:2009

COMMENTS

The device was running at ≥ 99% duty cycle. The operating instructions for data rate and channel selection were provided by the client.

DEVIATIONS FROM TEST STANDARD

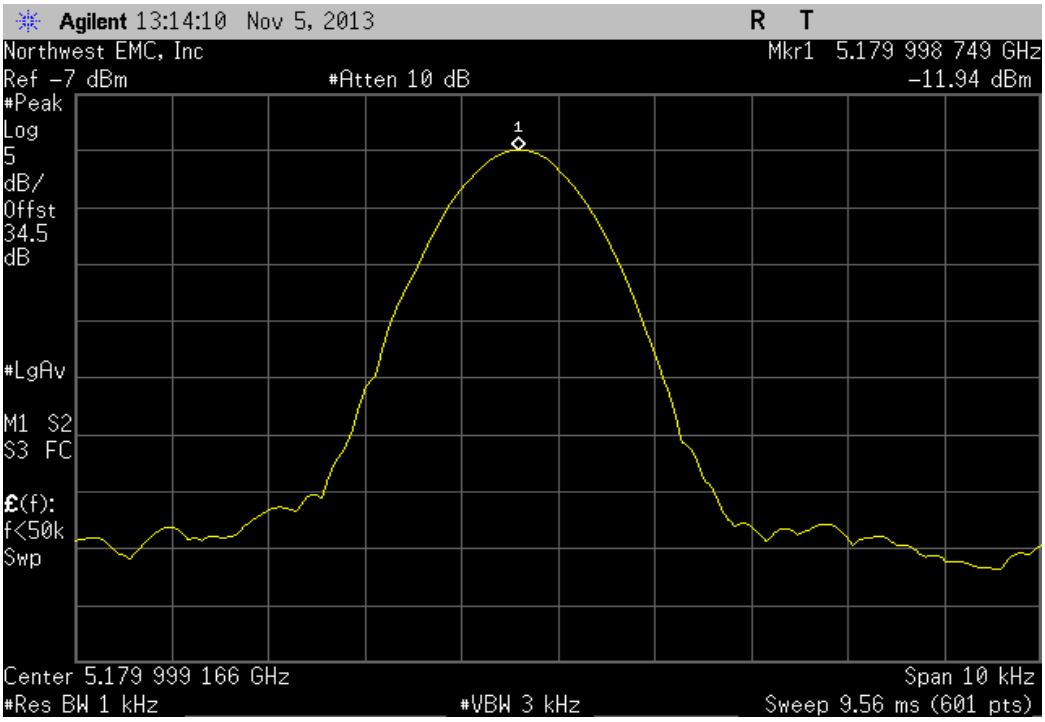
None

Configuration #	3	Signature

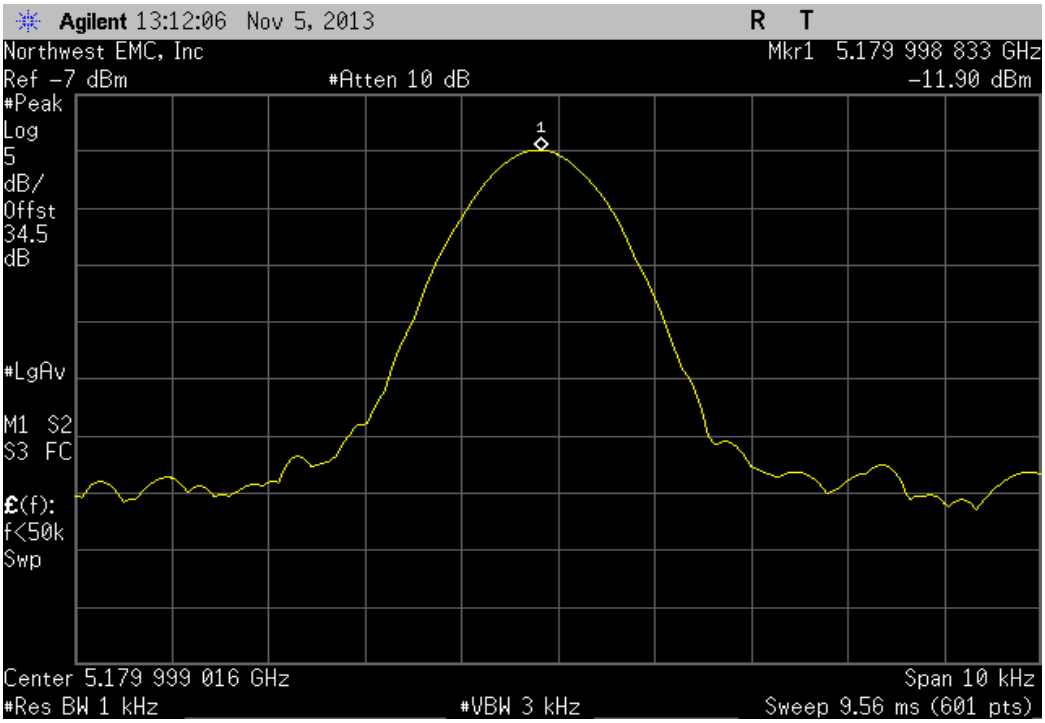
	Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
5150 MHz - 5250 MHz - Low Channel, 5180 MHz					
Voltage: 115%	5179.998749	5180	0.2	100	Pass
Voltage: 100%	5179.998833	5180	0.2	100	Pass
Voltage: 85%	5179.998919	5180	0.2	100	Pass
Temperature: +50°	5179.998733	5180	0.2	100	Pass
Temperature: +40°	5179.998135	5180	0.4	100	Pass
Temperature: +30°	5179.998254	5180	0.3	100	Pass
Temperature: +20°	5179.998772	5180	0.2	100	Pass
Temperature: +10°	5179.999466	5180	0.1	100	Pass
Temperature: 0°	5180.000122	5180	0	100	Pass
Temperature: -10°	5180.000434	5180	0.1	100	Pass
Temperature: -20°	5180.000956	5180	0.2	100	Pass
Temperature: -30°	5180.001201	5180	0.2	100	Pass
5250 MHz - 5350 MHz - High Channel, 5320 MHz					
Voltage: 115%	5319.998733	5320	0.2	100	Pass
Voltage: 100%	5319.998754	5320	0.2	100	Pass
Voltage: 85%	5319.998772	5320	0.2	100	Pass
Temperature: +50°	5319.998668	5320	0.2	100	Pass
Temperature: +40°	5319.998061	5320	0.4	100	Pass
Temperature: +30°	5319.998187	5320	0.3	100	Pass
Temperature: +20°	5319.998752	5320	0.2	100	Pass
Temperature: +10°	5319.999507	5320	0.1	100	Pass
Temperature: 0°	5320.00012	5320	0	100	Pass
Temperature: -10°	5320.000475	5320	0.1	100	Pass
Temperature: -20°	5320.001056	5320	0.2	100	Pass
Temperature: -30°	5320.001213	5320	0.2	100	Pass
5470 MHz - 5725 MHz - Low Channel, 5500 MHz					
Voltage: 115%	5499.998716	5500	0.2	100	Pass
Voltage: 100%	5499.998699	5500	0.2	100	Pass
Voltage: 85%	5499.998683	5500	0.2	100	Pass
Temperature: +50°	5499.998665	5500	0.2	100	Pass
Temperature: +40°	5499.99803	5500	0.4	100	Pass
Temperature: +30°	5499.99803	5500	0.4	100	Pass
Temperature: +20°	5499.998716	5500	0.2	100	Pass
Temperature: +10°	5499.999551	5500	0.1	100	Pass
Temperature: 0°	5500.000135	5500	0	100	Pass
Temperature: -10°	5500.000468	5500	0.1	100	Pass
Temperature: -20°	5500.001086	5500	0.2	100	Pass
Temperature: -30°	5500.001286	5500	0.2	100	Pass
5470 MHz - 5725 MHz - High Channel, 5700 MHz					
Voltage: 115%	5699.998634	5700	0.2	100	Pass
Voltage: 100%	5699.998711	5700	0.2	100	Pass
Voltage: 85%	5699.99868	5700	0.2	100	Pass
Temperature: +50°	5699.998616	5700	0.2	100	Pass
Temperature: +40°	5699.997934	5700	0.4	100	Pass
Temperature: +30°	5699.998007	5700	0.4	100	Pass
Temperature: +20°	5699.998702	5700	0.2	100	Pass
Temperature: +10°	5699.999542	5700	0.1	100	Pass
Temperature: 0°	5700.00025	5700	0	100	Pass
Temperature: -10°	5700.000515	5700	0.1	100	Pass
Temperature: -20°	5700.001097	5700	0.2	100	Pass
Temperature: -30°	5700.001371	5700	0.2	100	Pass

Frequency Stability

5150 MHz - 5250 MHz - Low Channel, 5180 MHz, Voltage: 115%						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5179.998749	5180	0.2	100	Pass

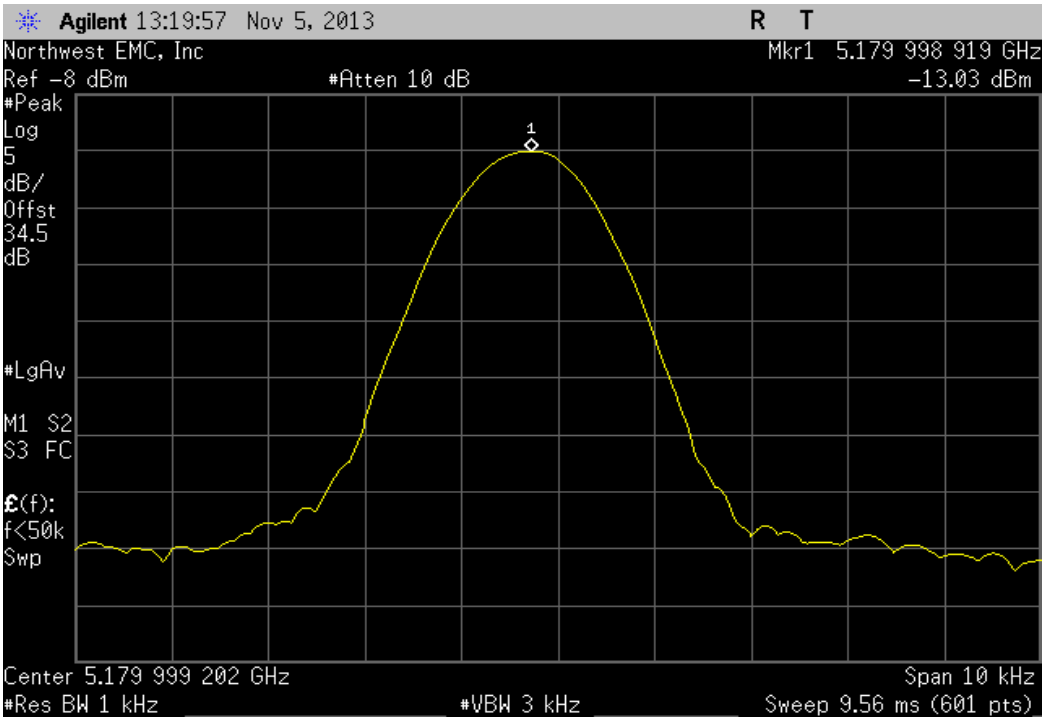


5150 MHz - 5250 MHz - Low Channel, 5180 MHz, Voltage: 100%						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5179.998833	5180	0.2	100	Pass

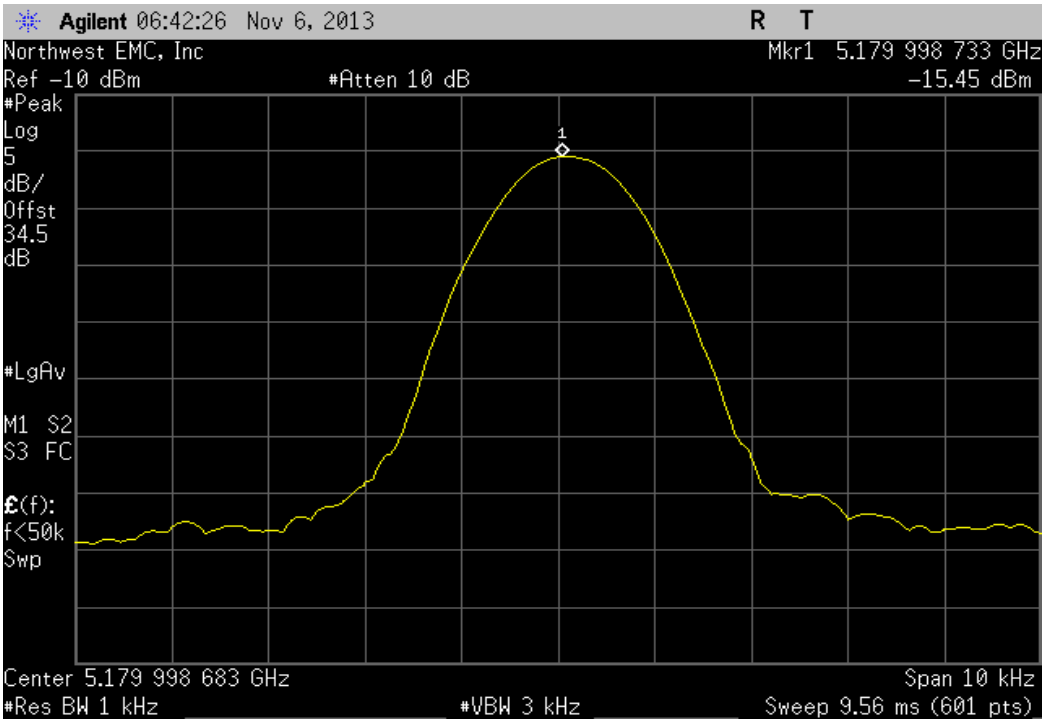


Frequency Stability

5150 MHz - 5250 MHz - Low Channel, 5180 MHz, Voltage: 85%						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5179.998919	5180	0.2	100	Pass

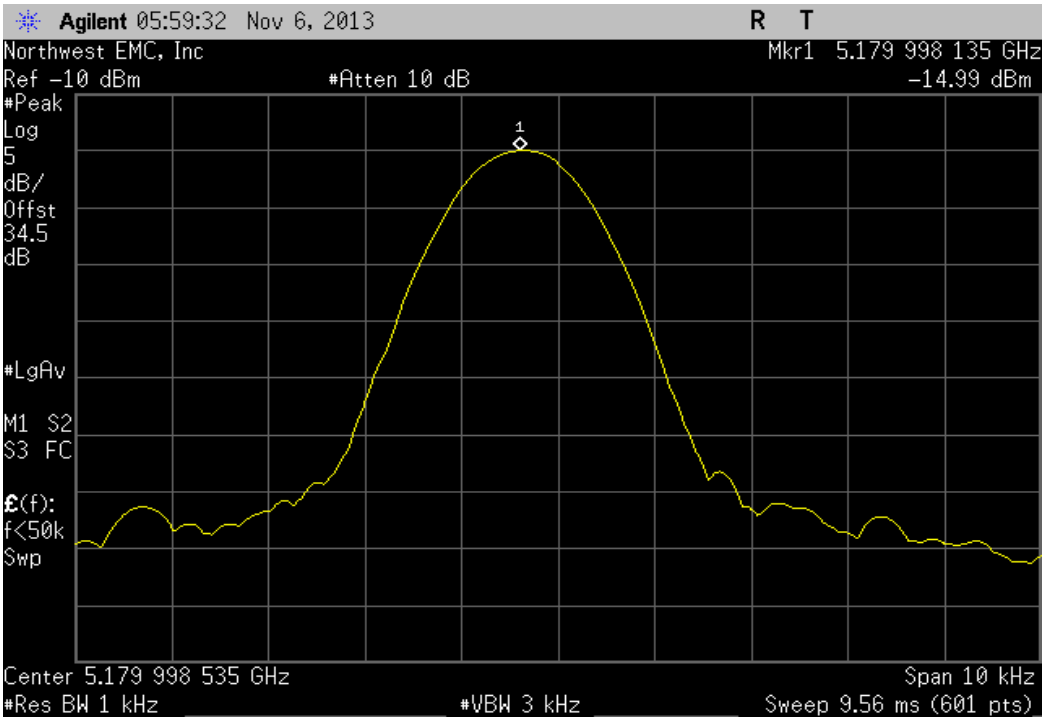


5150 MHz - 5250 MHz - Low Channel, 5180 MHz, Temperature: +50°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5179.998733	5180	0.2	100	Pass

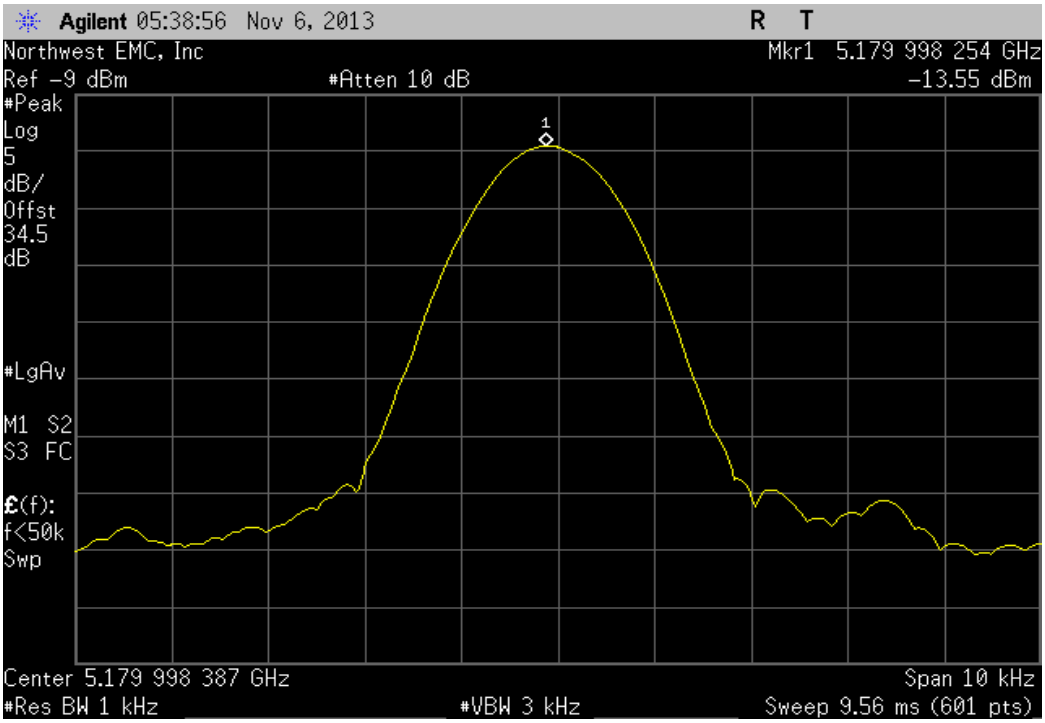


Frequency Stability

5150 MHz - 5250 MHz - Low Channel, 5180 MHz, Temperature: +40°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5179.998135	5180	0.4	100	Pass

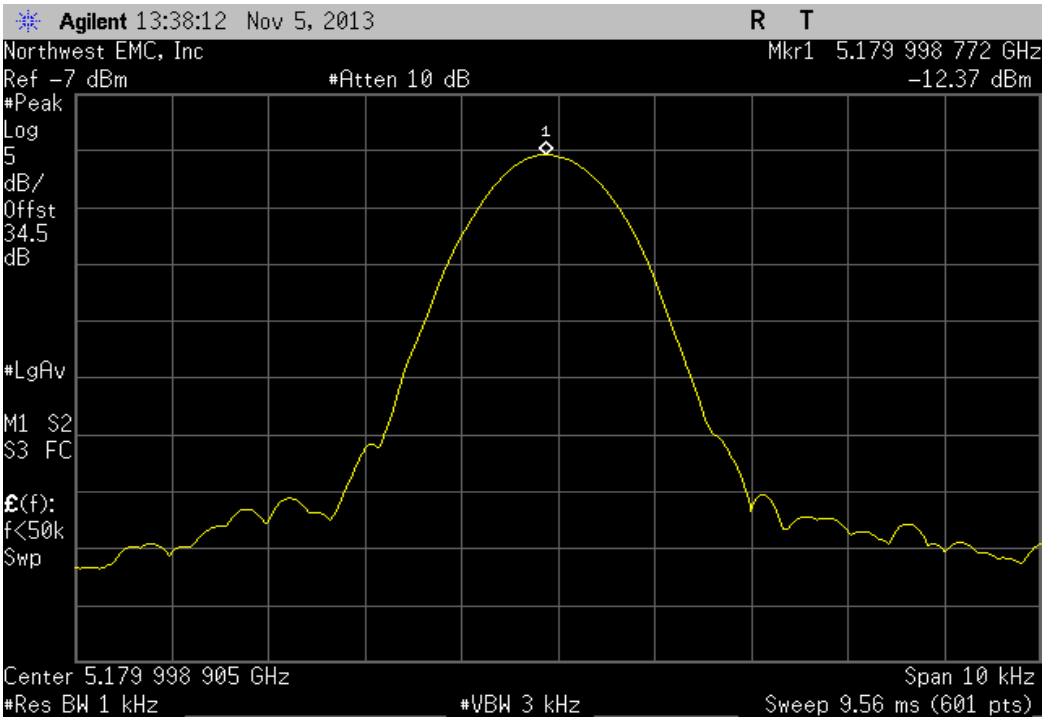


5150 MHz - 5250 MHz - Low Channel, 5180 MHz, Temperature: +30°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5179.998254	5180	0.3	100	Pass

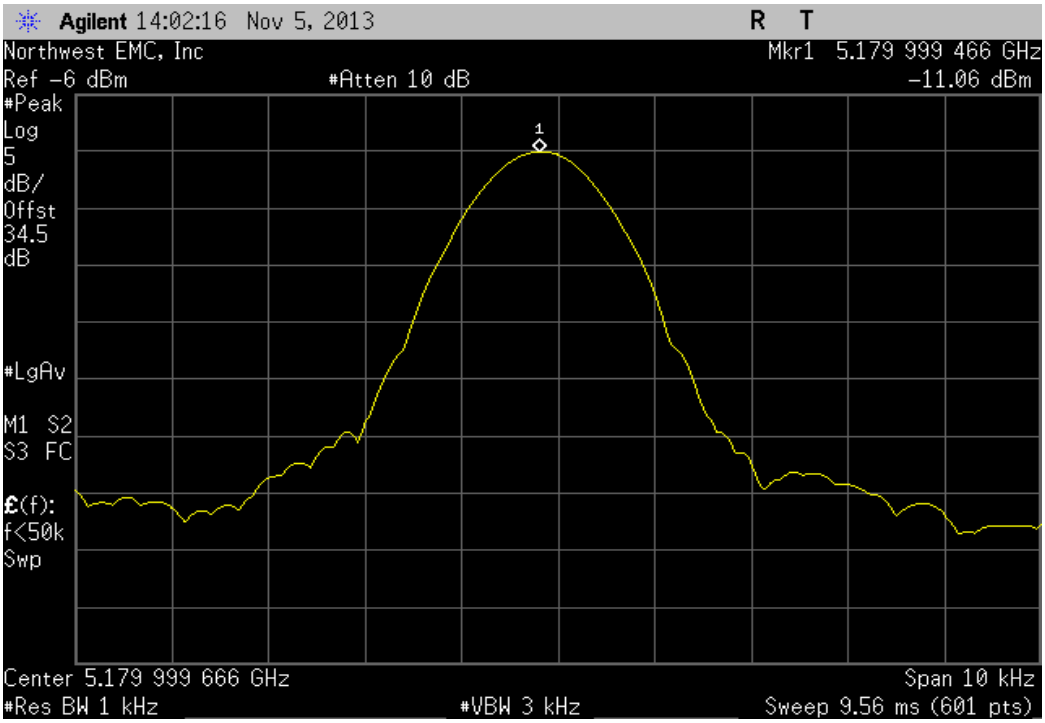


Frequency Stability

5150 MHz - 5250 MHz - Low Channel, 5180 MHz, Temperature: +20°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5179.998772	5180	0.2	100	Pass

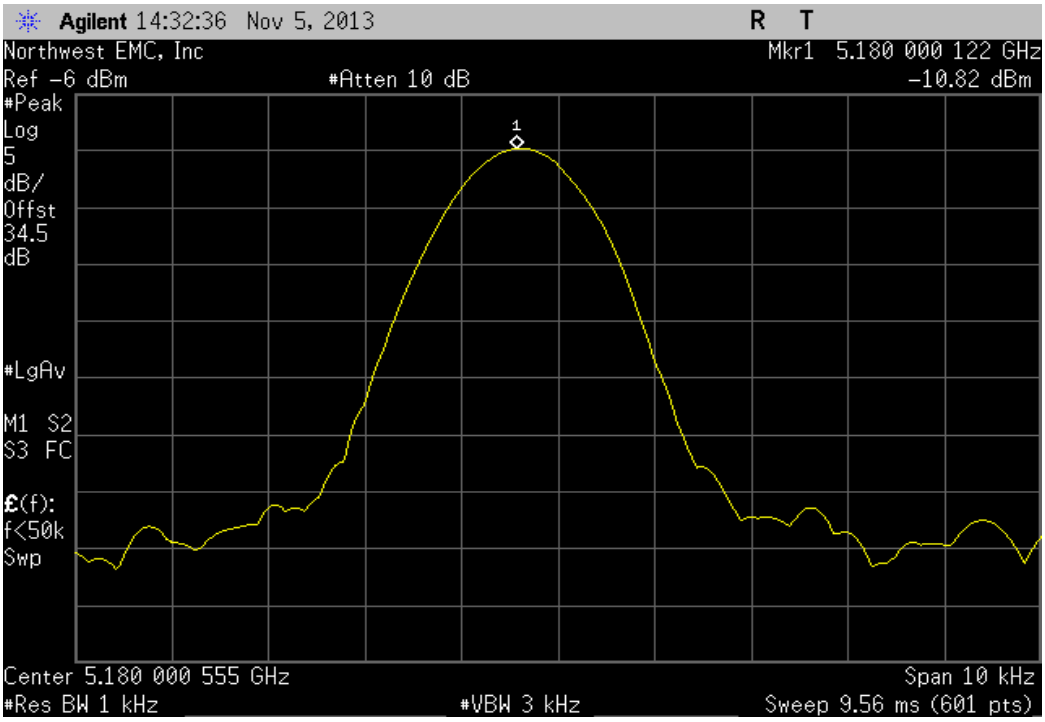


5150 MHz - 5250 MHz - Low Channel, 5180 MHz, Temperature: +10°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5179.999466	5180	0.1	100	Pass

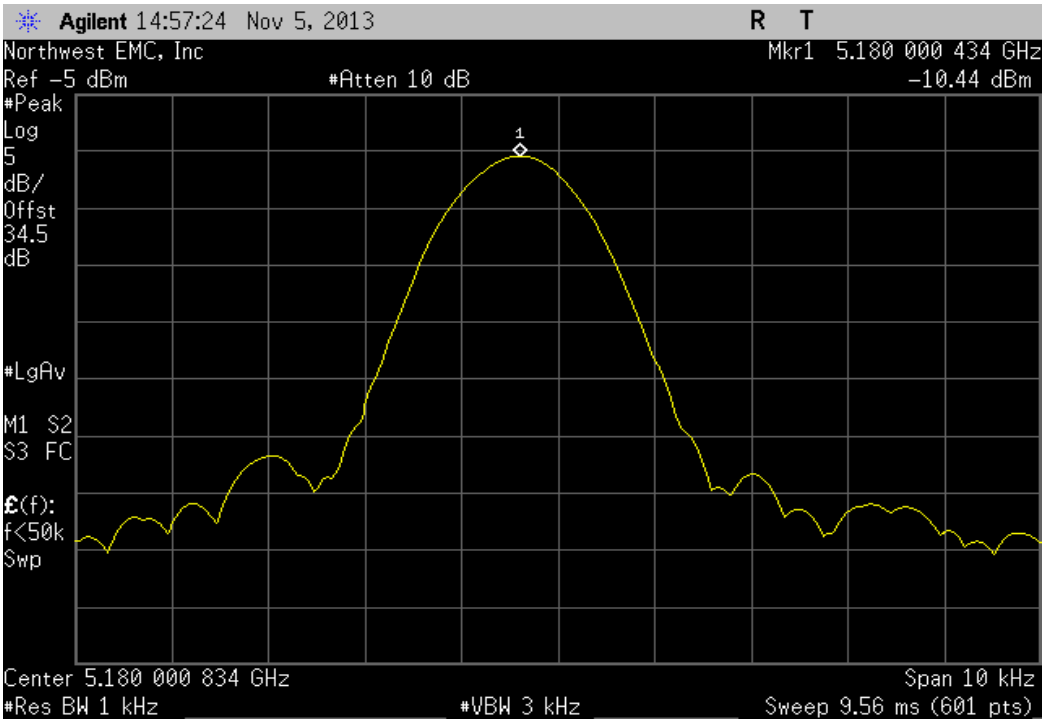


Frequency Stability

5150 MHz - 5250 MHz - Low Channel, 5180 MHz, Temperature: 0°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5180.000122	5180	0	100	Pass

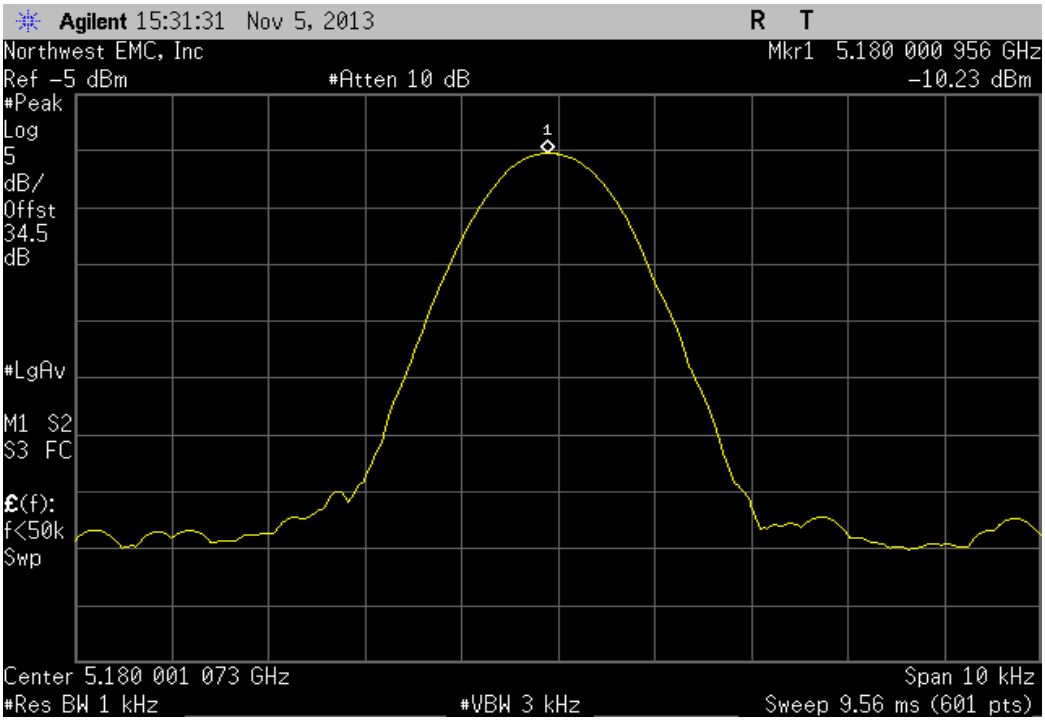


5150 MHz - 5250 MHz - Low Channel, 5180 MHz, Temperature: -10°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5180.000434	5180	0.1	100	Pass

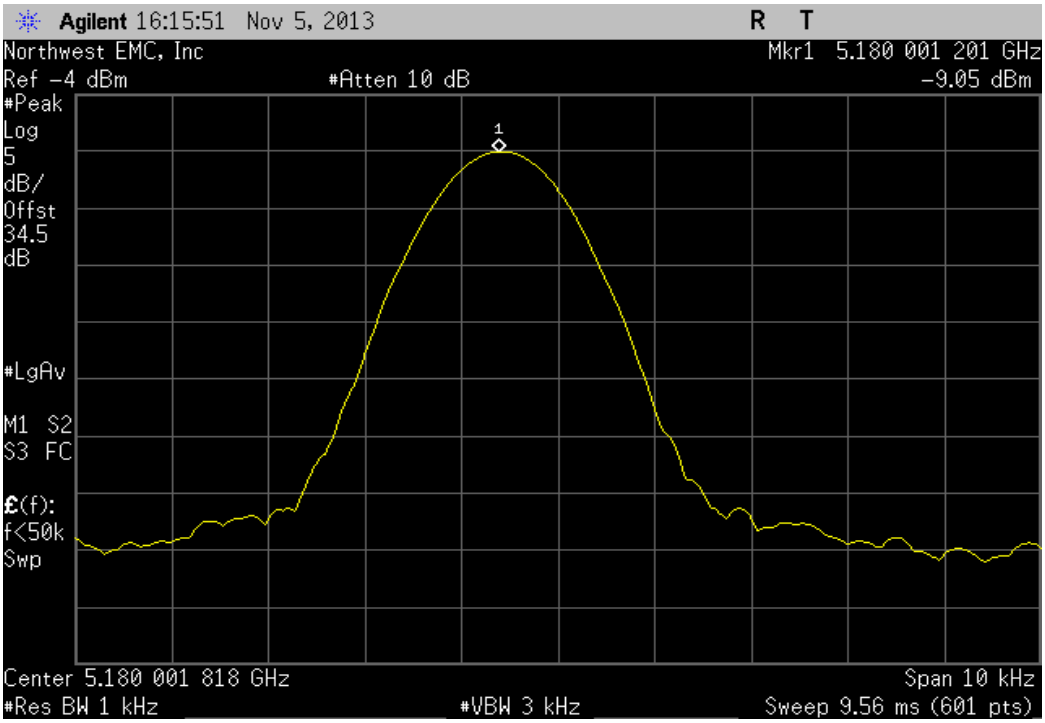


Frequency Stability

5150 MHz - 5250 MHz - Low Channel, 5180 MHz, Temperature: -20°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5180.000956	5180	0.2	100	Pass

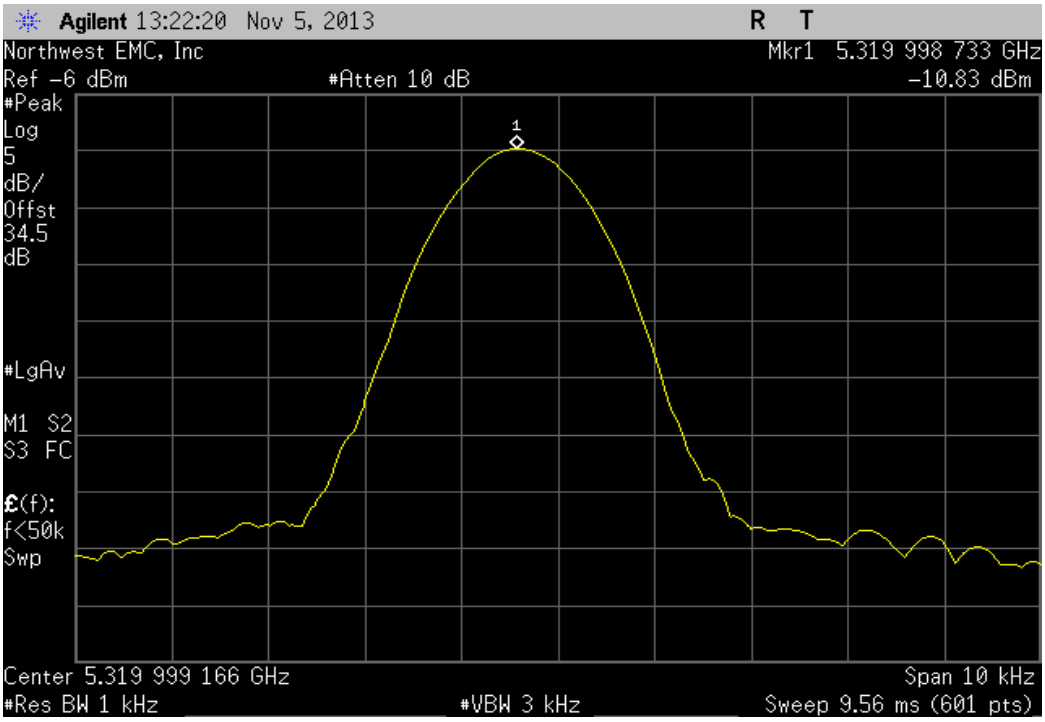


5150 MHz - 5250 MHz - Low Channel, 5180 MHz, Temperature: -30°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5180.001201	5180	0.2	100	Pass

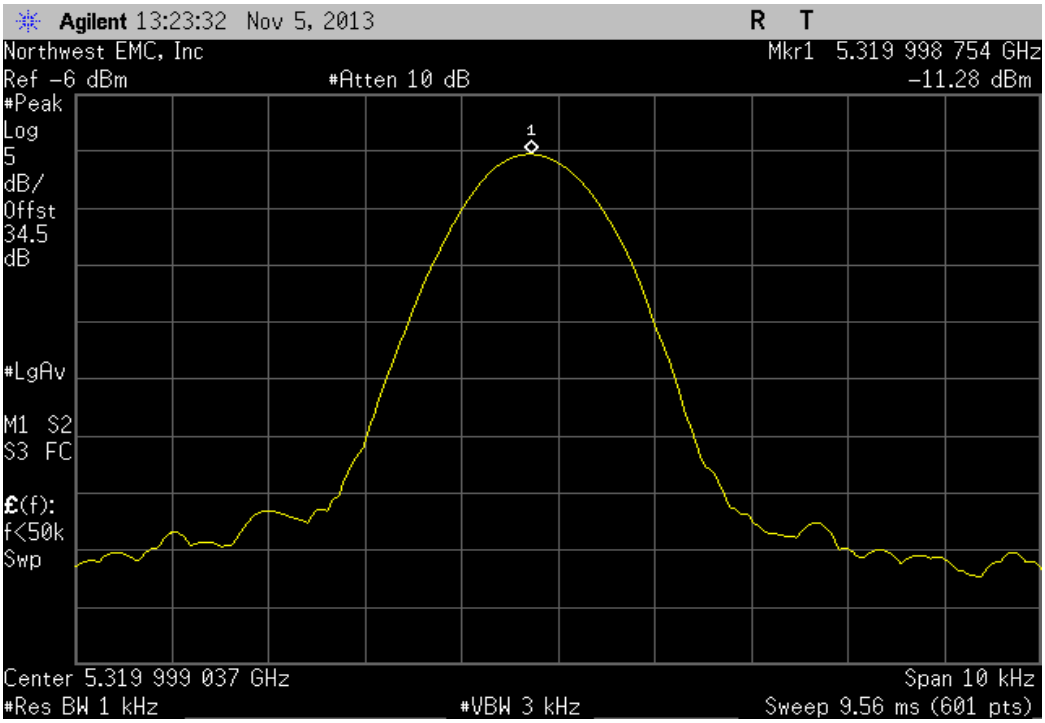


Frequency Stability

5250 MHz - 5350 MHz - High Channel, 5320 MHz, Voltage: 115%						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5319.998733	5320	0.2	100	Pass

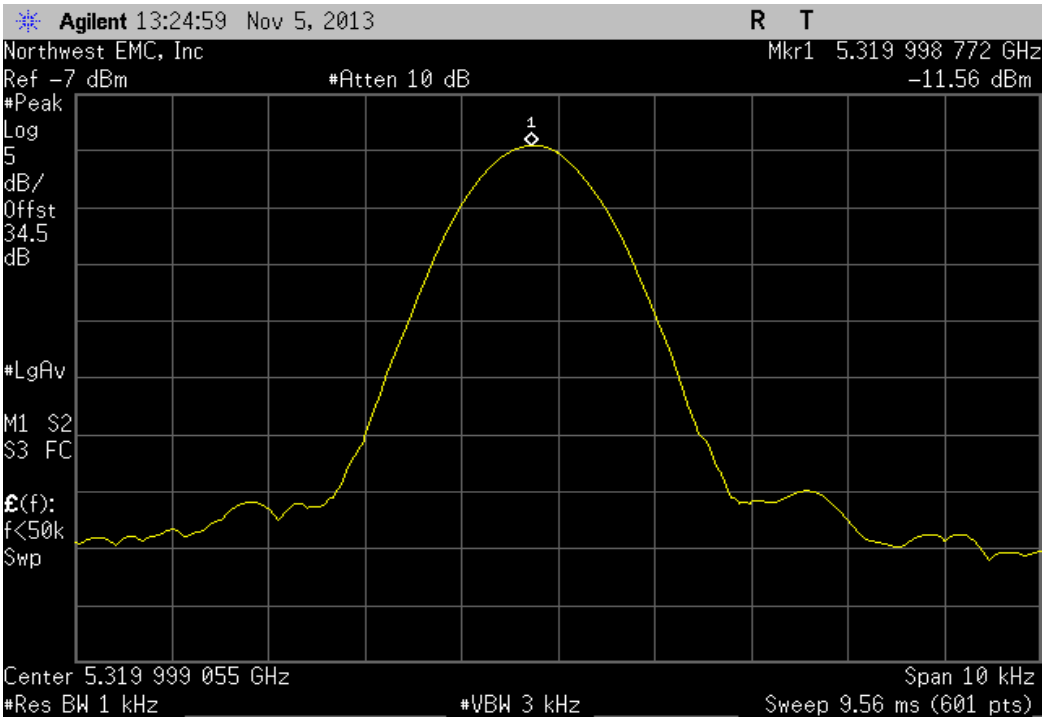


5250 MHz - 5350 MHz - High Channel, 5320 MHz, Voltage: 100%						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5319.998754	5320	0.2	100	Pass

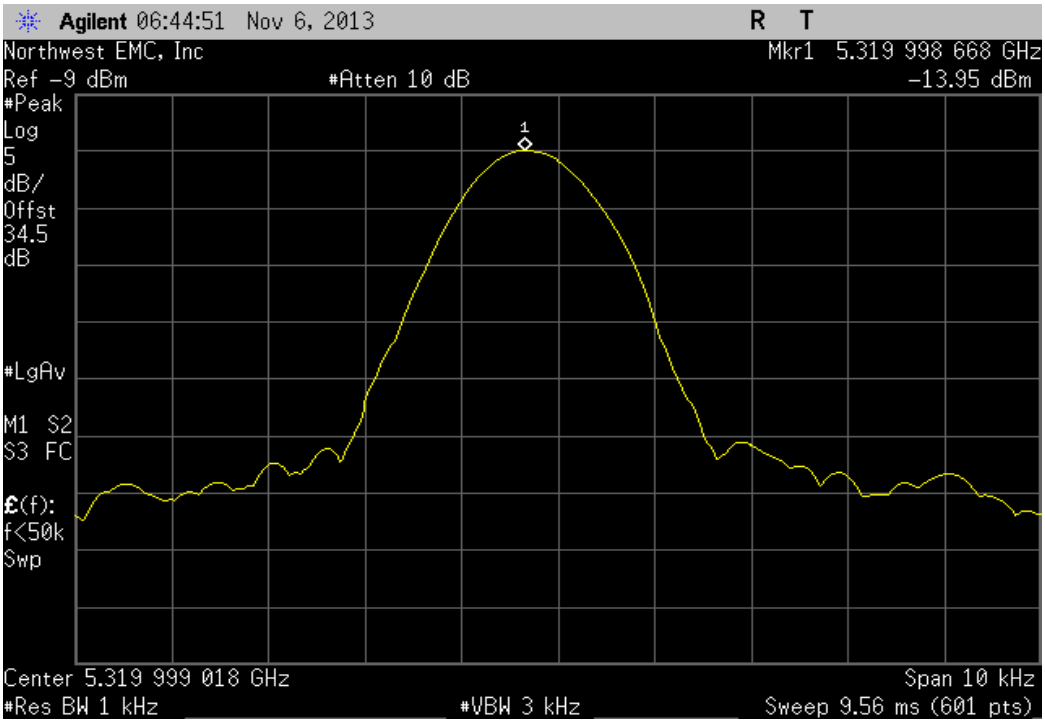


Frequency Stability

5250 MHz - 5350 MHz - High Channel, 5320 MHz, Voltage: 85%						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5319.998772	5320	0.2	100	Pass

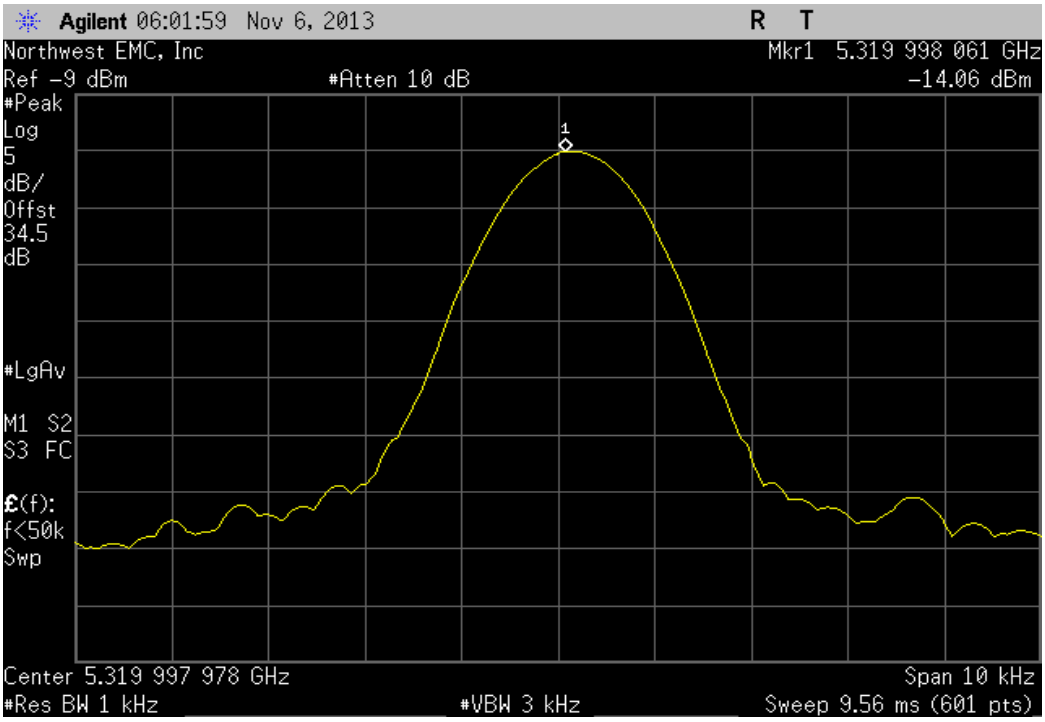


5250 MHz - 5350 MHz - High Channel, 5320 MHz, Temperature: +50°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5319.998668	5320	0.2	100	Pass

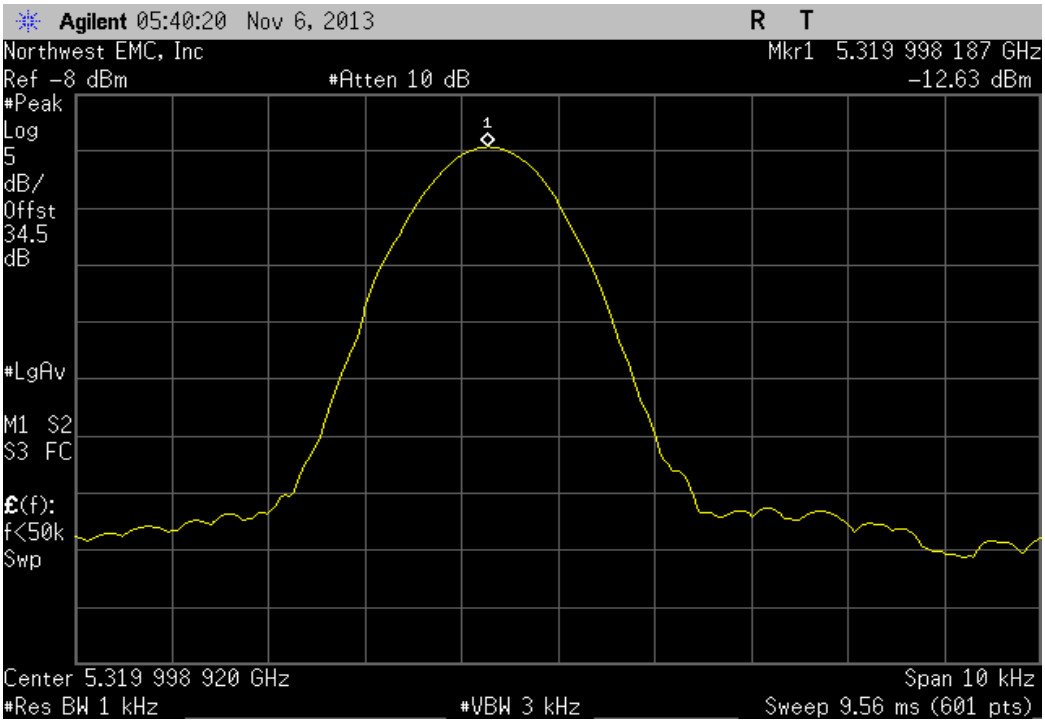


Frequency Stability

5250 MHz - 5350 MHz - High Channel, 5320 MHz, Temperature: +40°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5319.998061	5320	0.4	100	Pass

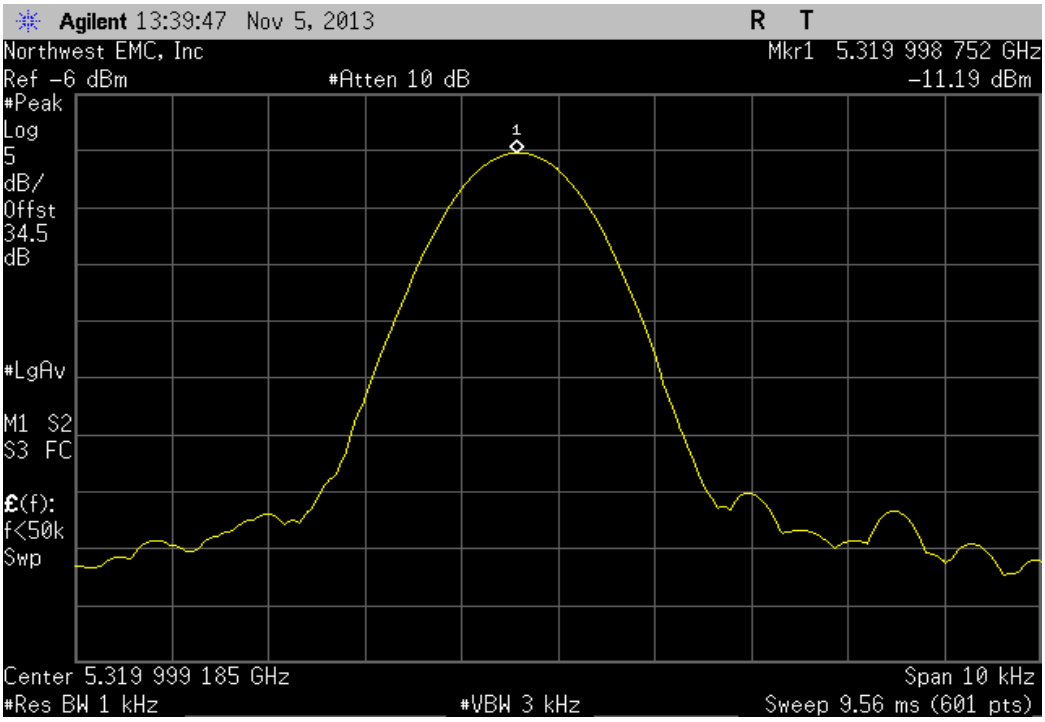


5250 MHz - 5350 MHz - High Channel, 5320 MHz, Temperature: +30°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5319.998187	5320	0.3	100	Pass

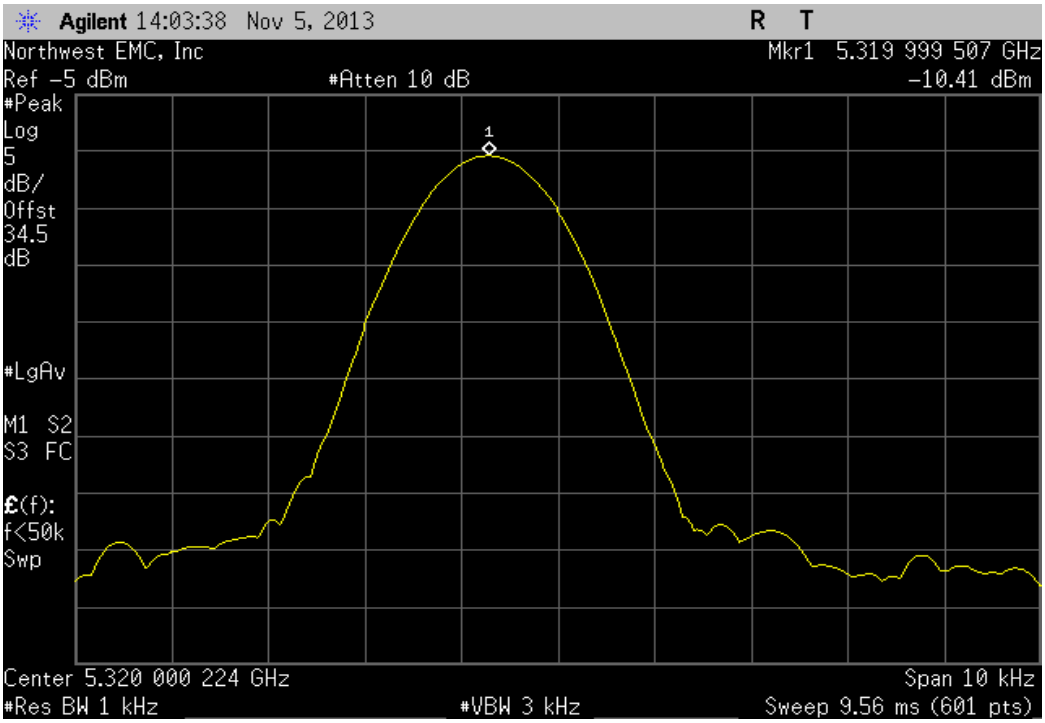


Frequency Stability

5250 MHz - 5350 MHz - High Channel, 5320 MHz, Temperature: +20°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5319.998752	5320	0.2	100	Pass

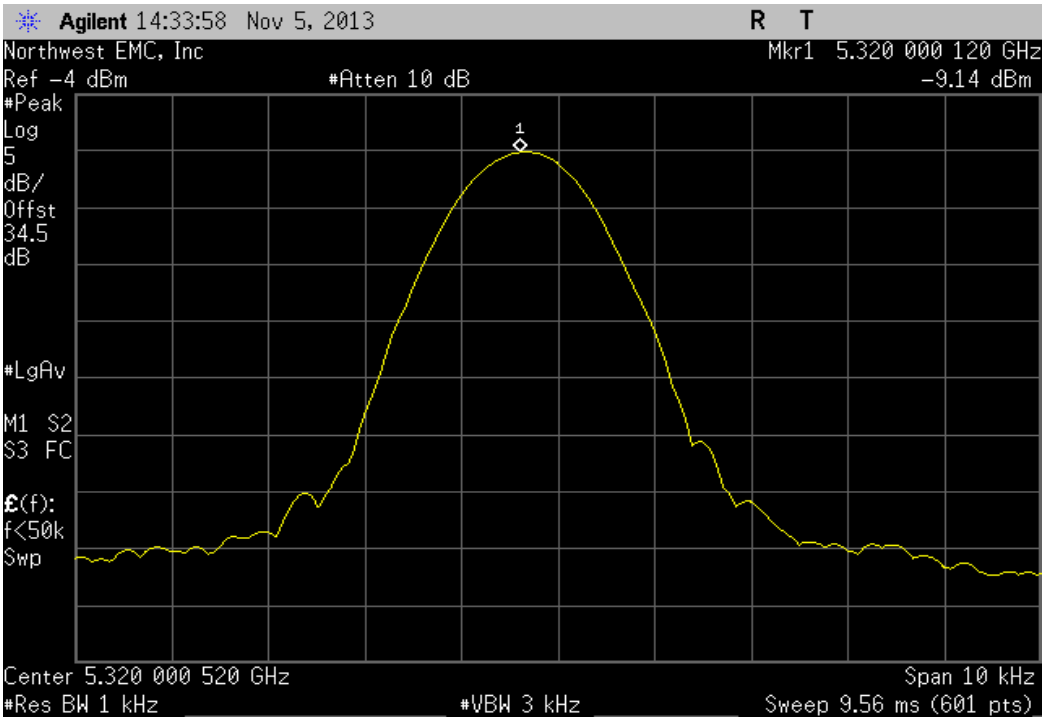


5250 MHz - 5350 MHz - High Channel, 5320 MHz, Temperature: +10°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5319.999507	5320	0.1	100	Pass

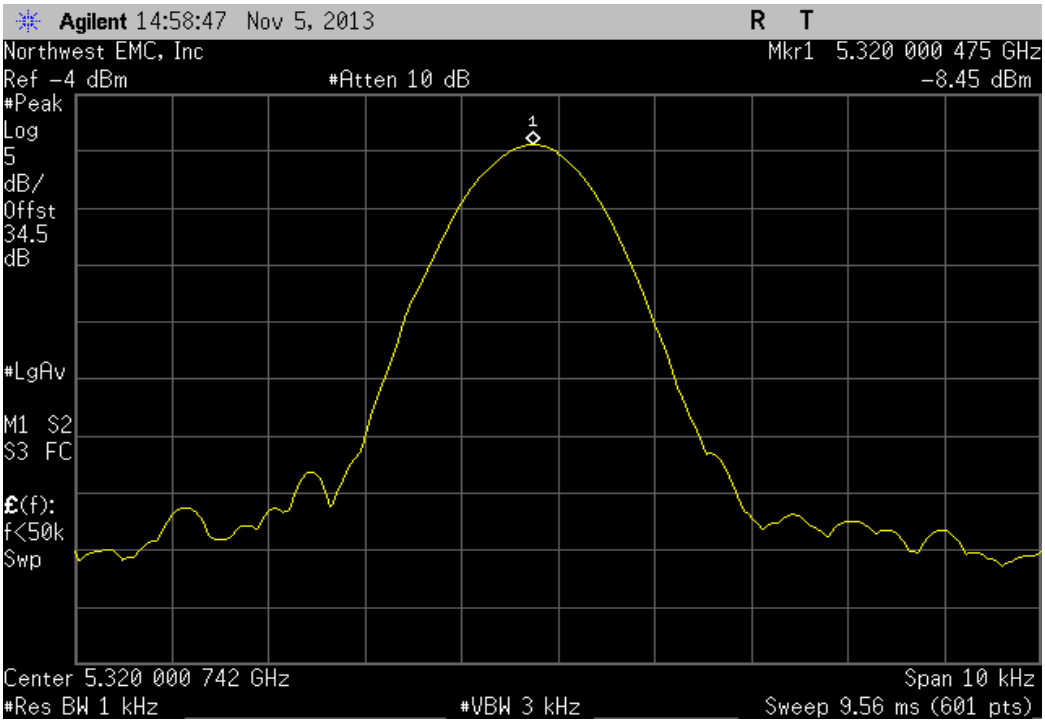


Frequency Stability

5250 MHz - 5350 MHz - High Channel, 5320 MHz, Temperature: 0°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5320.00012	5320	0	100	Pass

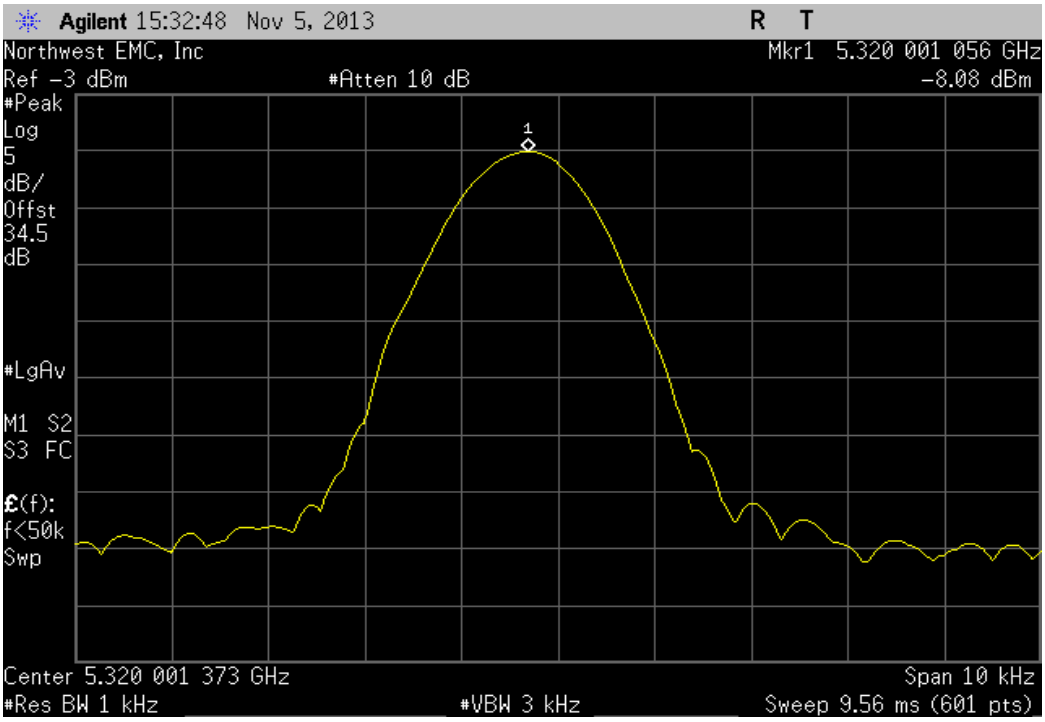


5250 MHz - 5350 MHz - High Channel, 5320 MHz, Temperature: -10°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5320.000475	5320	0.1	100	Pass

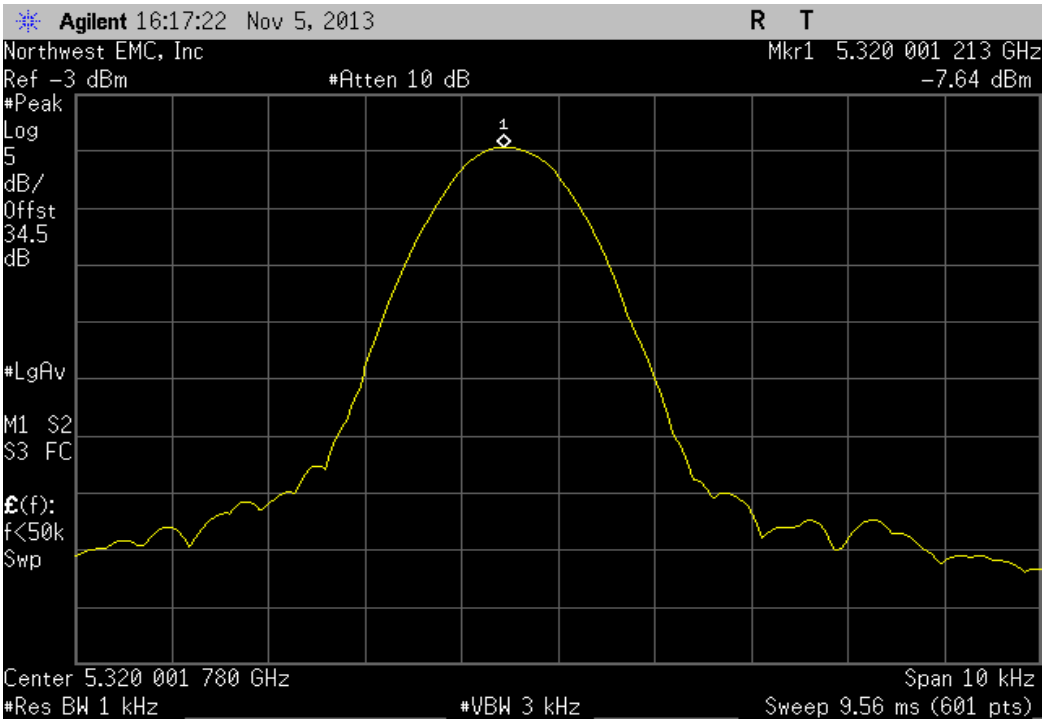


Frequency Stability

5250 MHz - 5350 MHz - High Channel, 5320 MHz, Temperature: -20°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5320.001056	5320	0.2	100	Pass

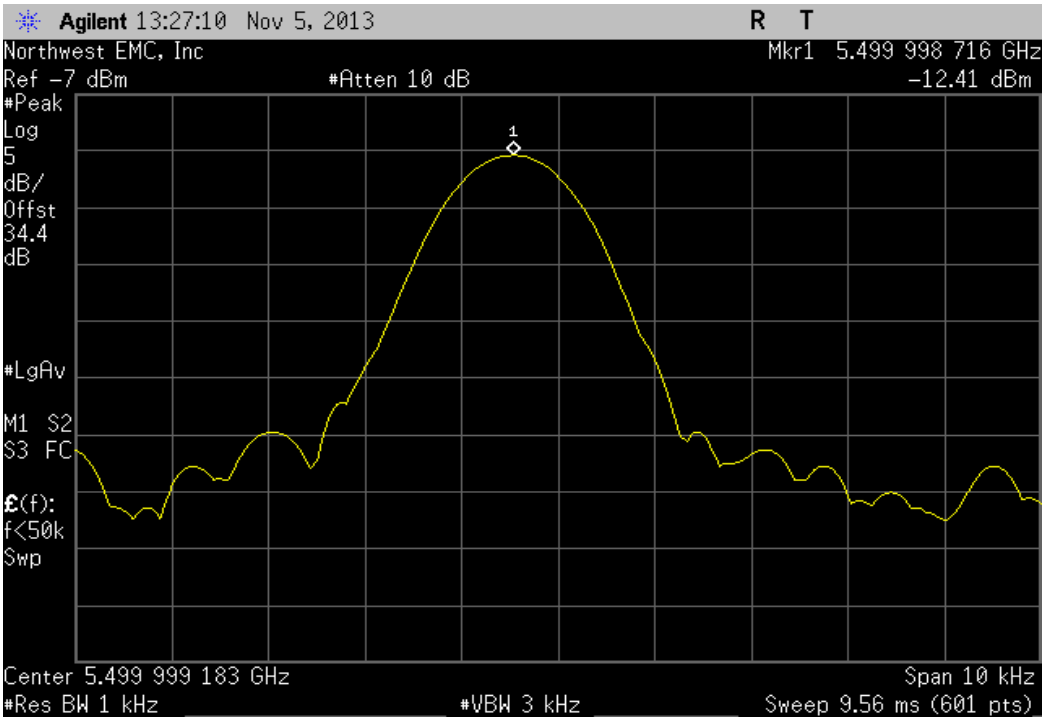


5250 MHz - 5350 MHz - High Channel, 5320 MHz, Temperature: -30°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5320.001213	5320	0.2	100	Pass

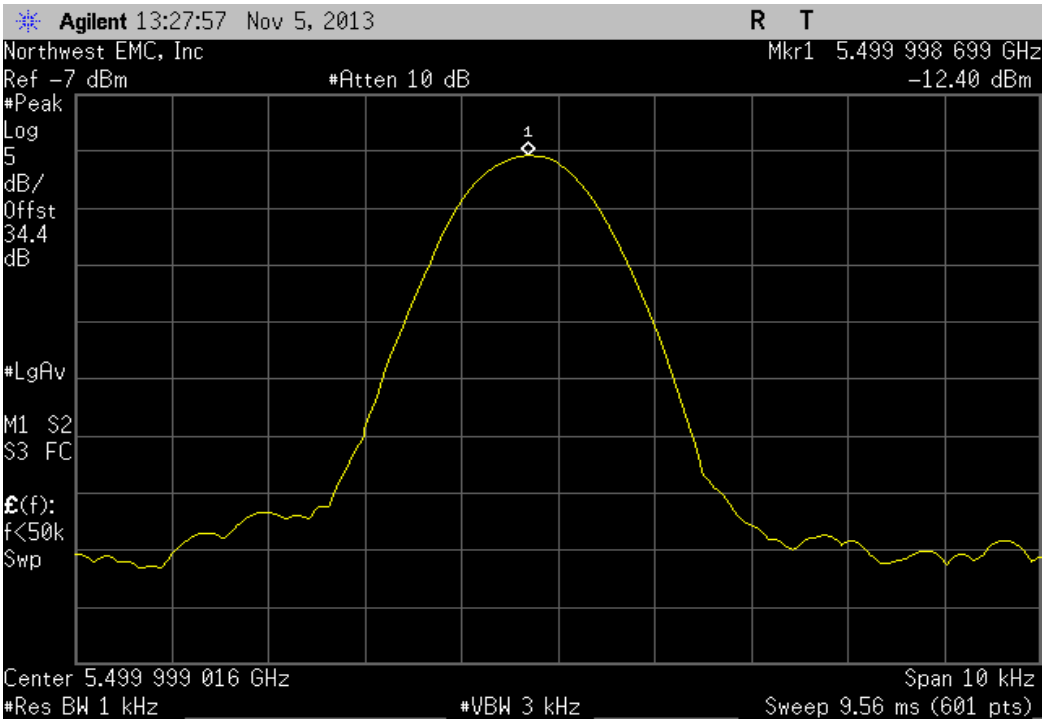


Frequency Stability

5470 MHz - 5725 MHz - Low Channel, 5500 MHz, Voltage: 115%						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5499.998716	5500	0.2	100	Pass

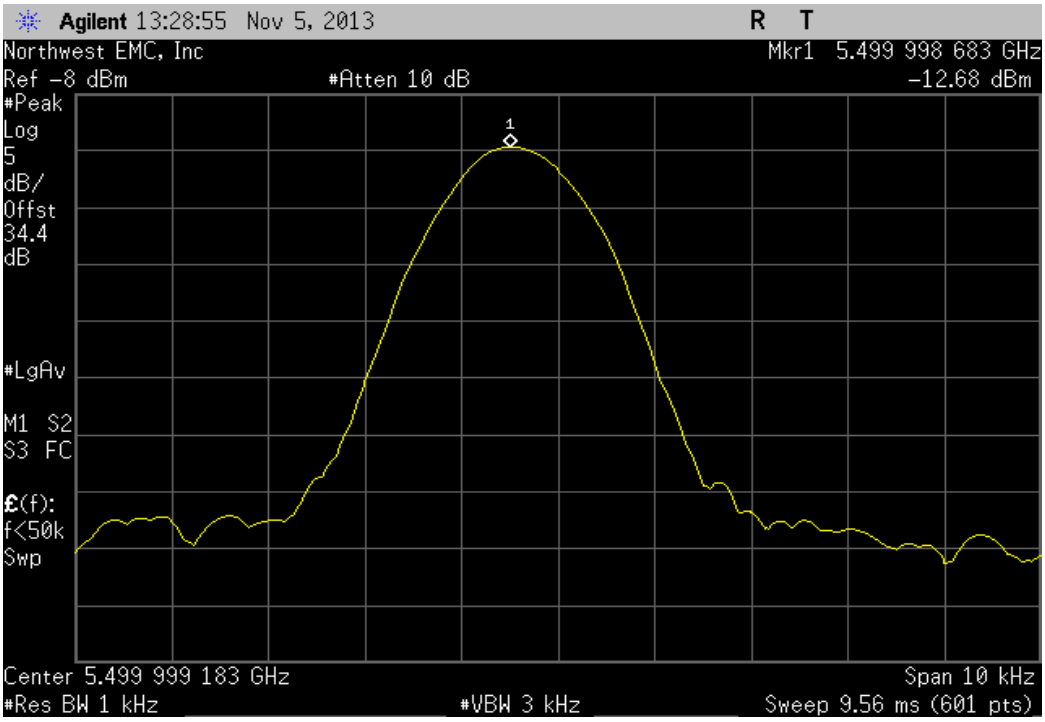


5470 MHz - 5725 MHz - Low Channel, 5500 MHz, Voltage: 100%						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5499.998699	5500	0.2	100	Pass

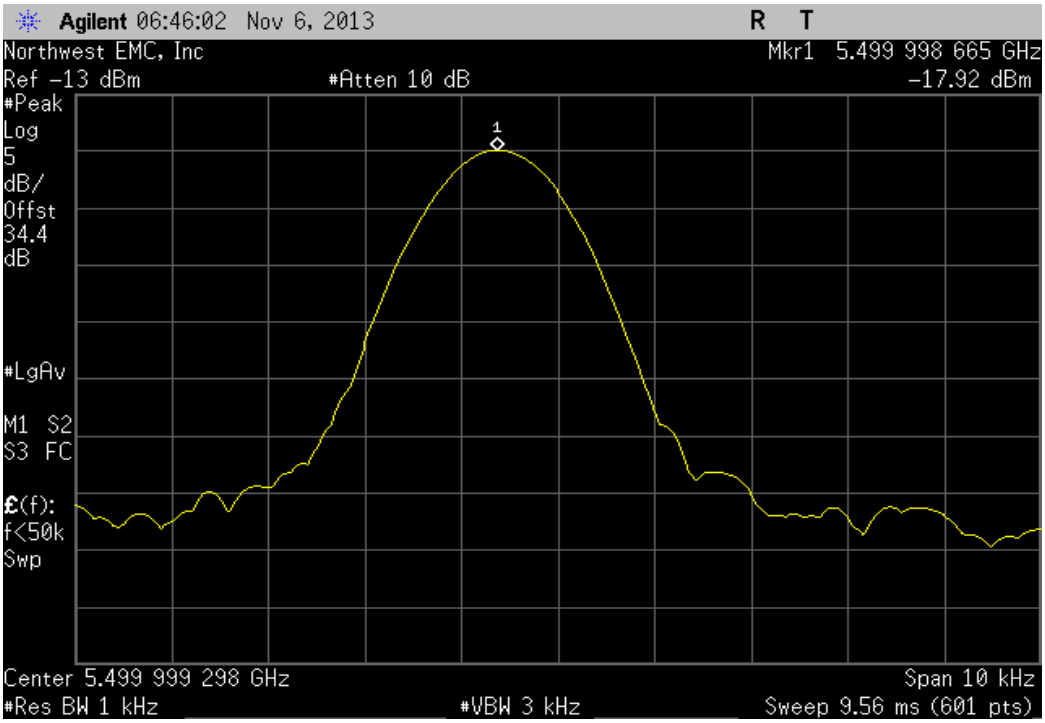


Frequency Stability

5470 MHz - 5725 MHz - Low Channel, 5500 MHz, Voltage: 85%						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5499.998683	5500	0.2	100	Pass

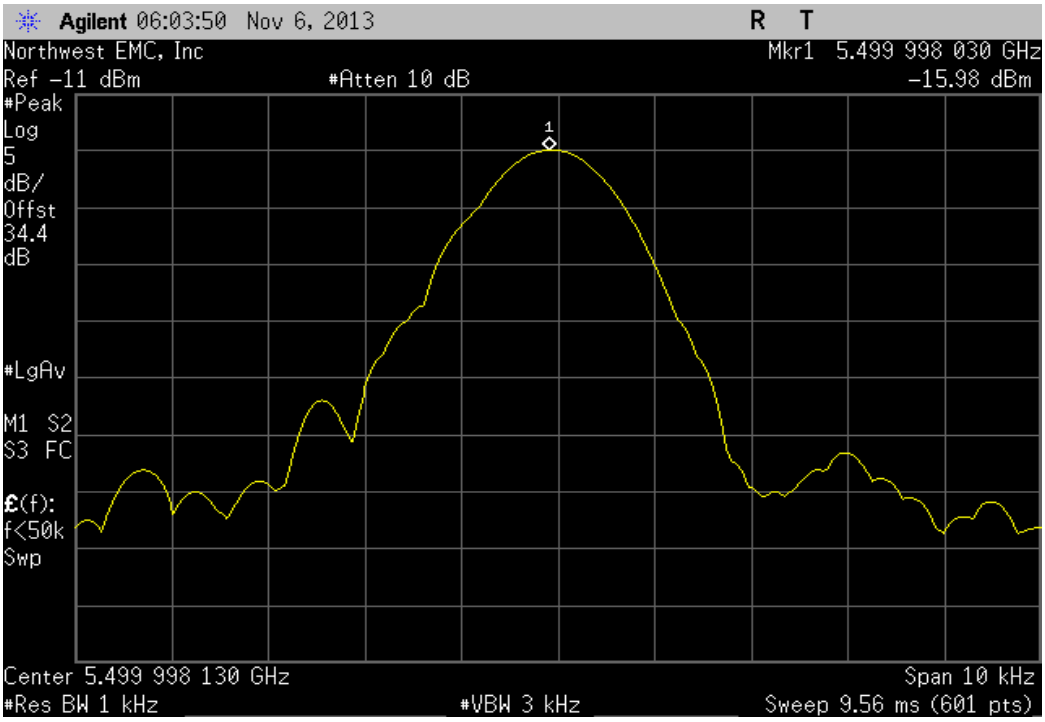


5470 MHz - 5725 MHz - Low Channel, 5500 MHz, Temperature: +50°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5499.998665	5500	0.2	100	Pass

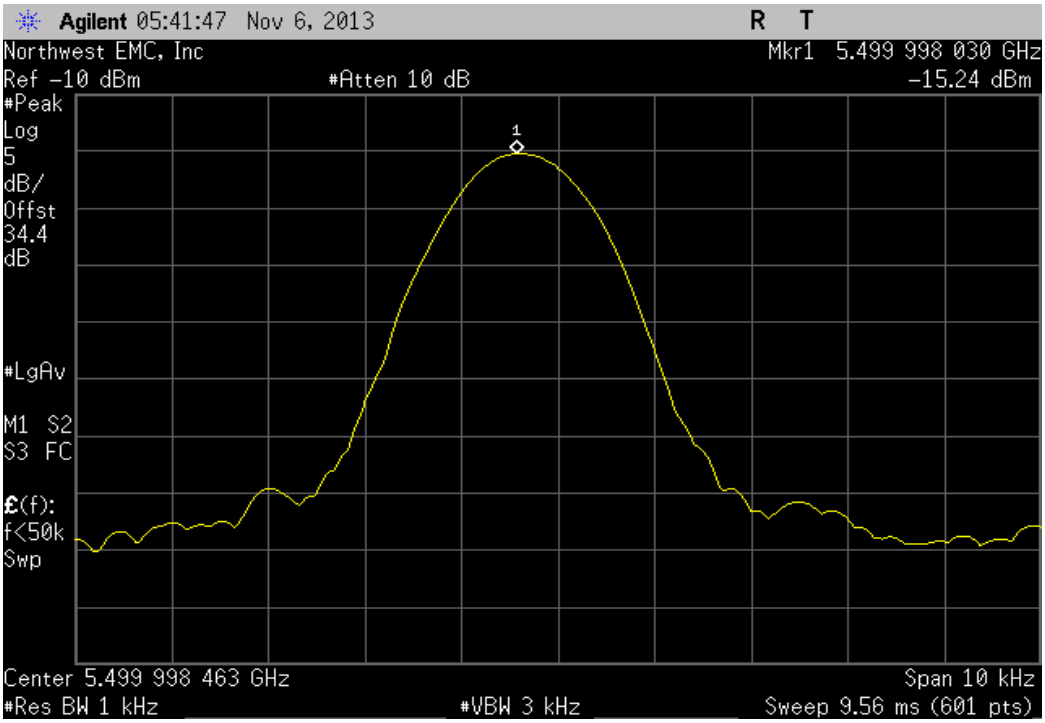


Frequency Stability

5470 MHz - 5725 MHz - Low Channel, 5500 MHz, Temperature: +40°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5499.99803	5500	0.4	100	Pass

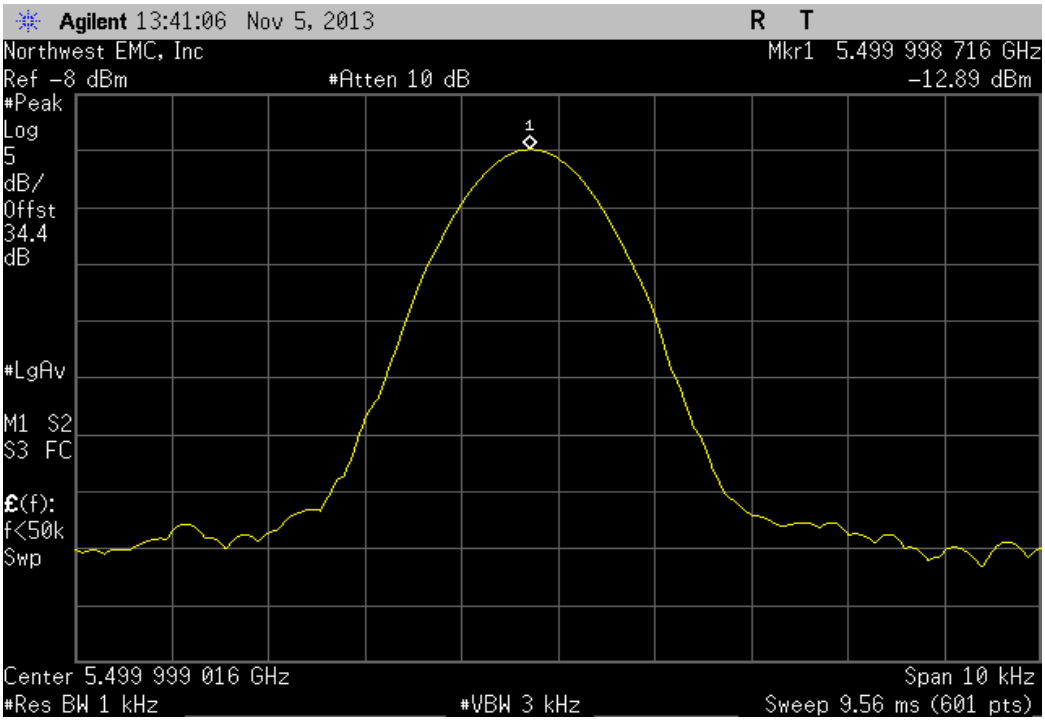


5470 MHz - 5725 MHz - Low Channel, 5500 MHz, Temperature: +30°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5499.99803	5500	0.4	100	Pass

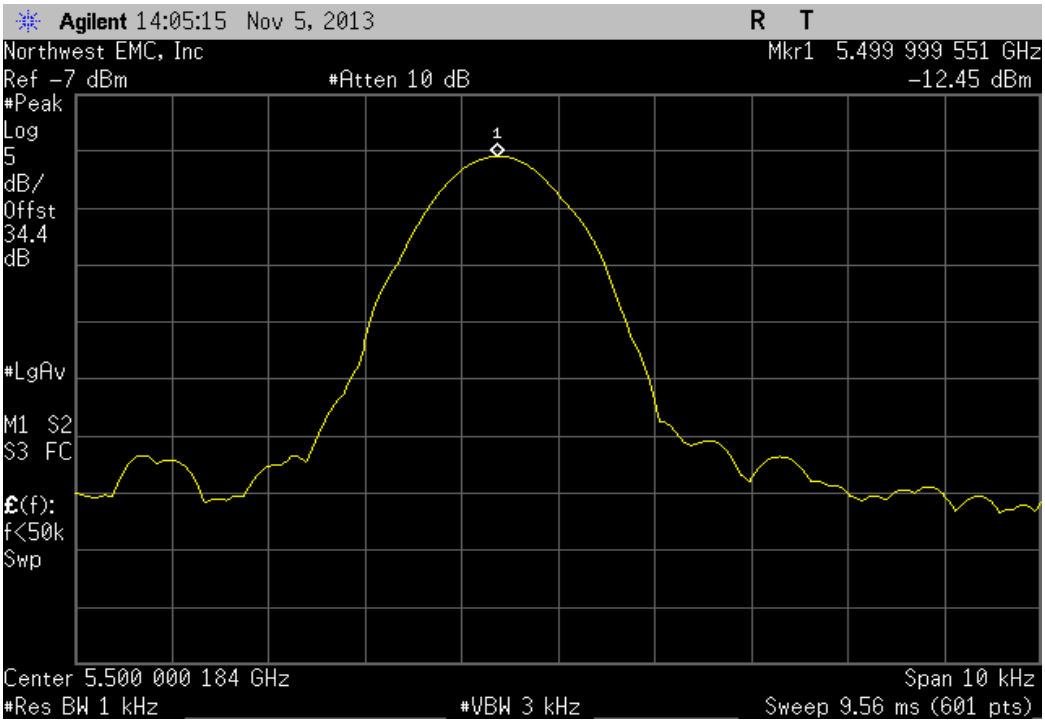


Frequency Stability

5470 MHz - 5725 MHz - Low Channel, 5500 MHz, Temperature: +20°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5499.998716	5500	0.2	100	Pass

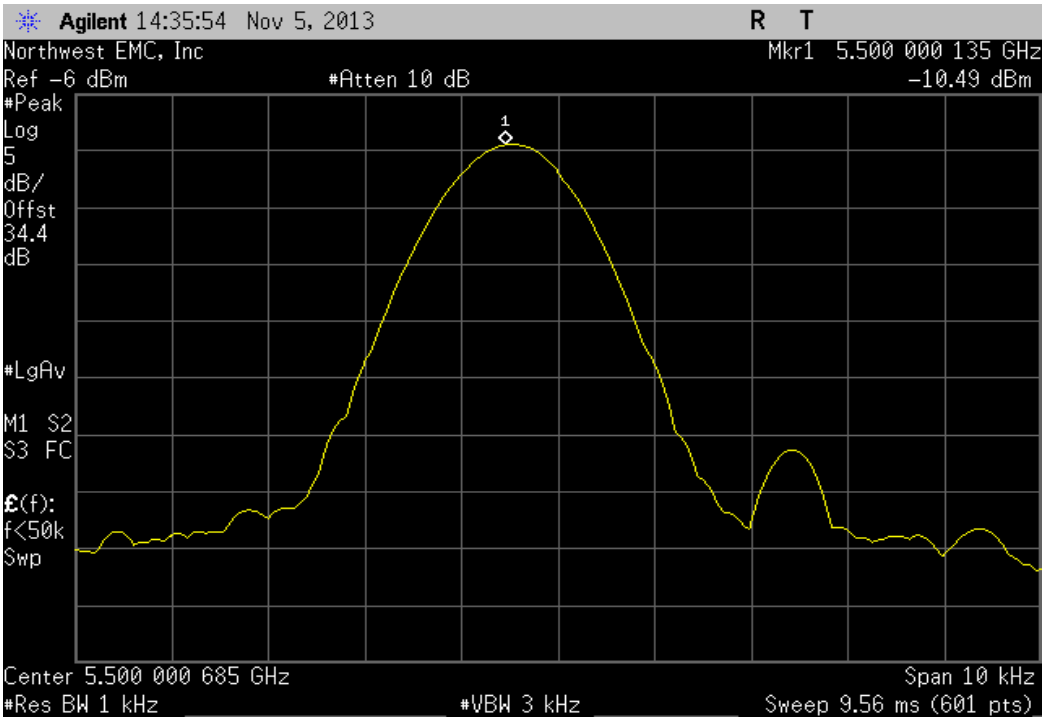


5470 MHz - 5725 MHz - Low Channel, 5500 MHz, Temperature: +10°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5499.999551	5500	0.1	100	Pass

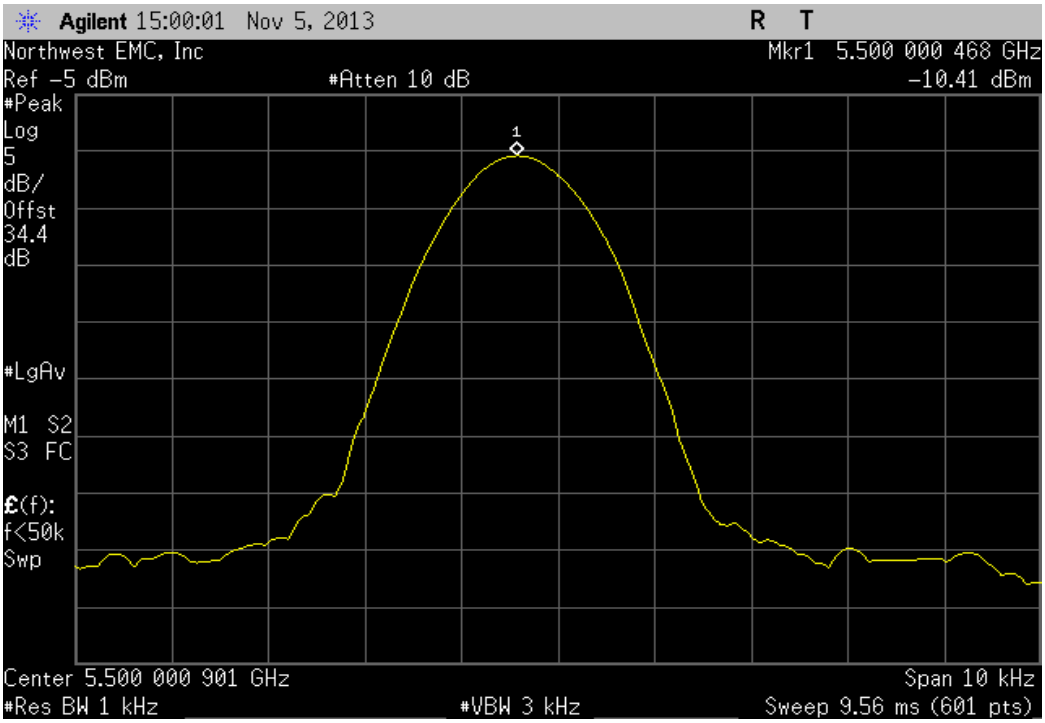


Frequency Stability

5470 MHz - 5725 MHz - Low Channel, 5500 MHz, Temperature: 0°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5500.000135	5500	0	100	Pass

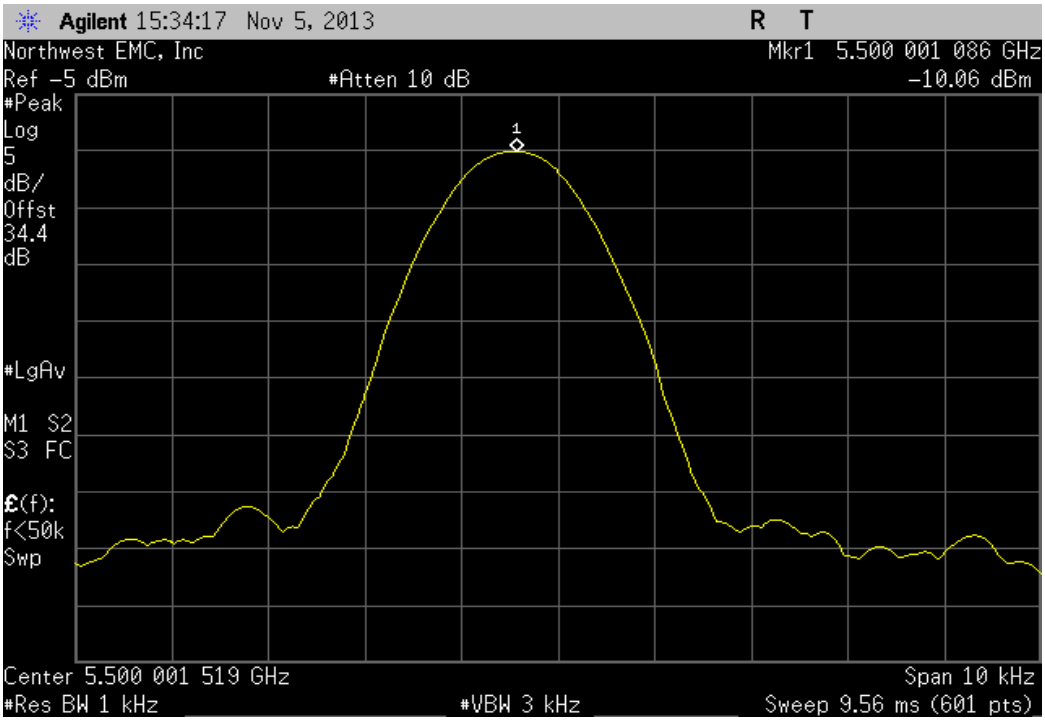


5470 MHz - 5725 MHz - Low Channel, 5500 MHz, Temperature: -10°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5500.000468	5500	0.1	100	Pass

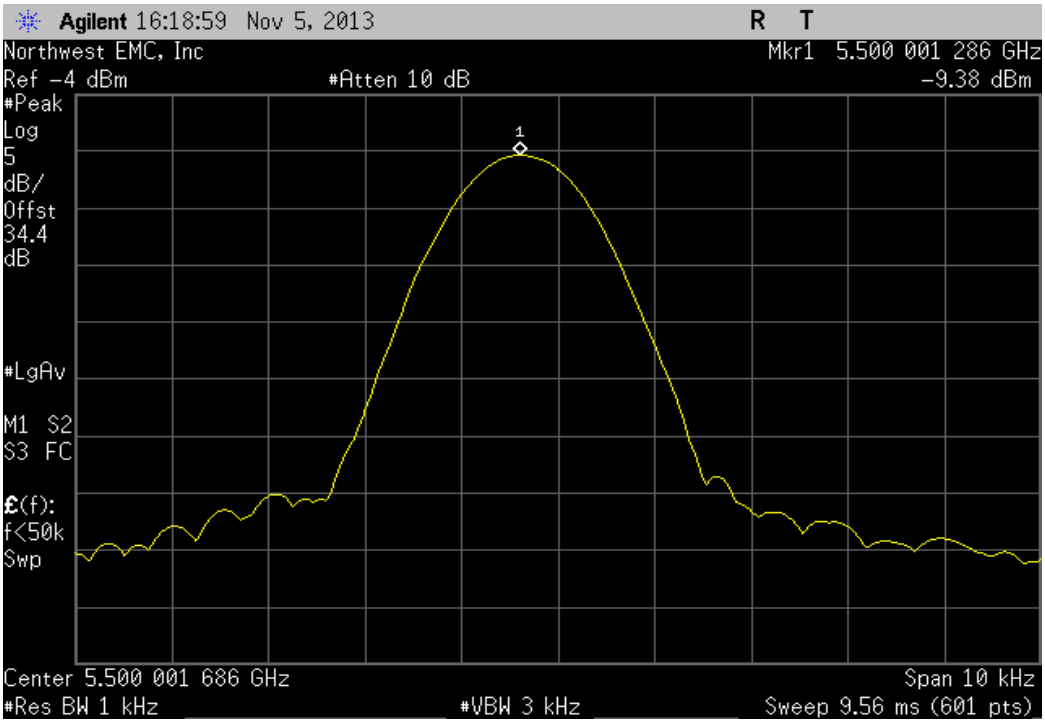


Frequency Stability

5470 MHz - 5725 MHz - Low Channel, 5500 MHz, Temperature: -20°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5500.001086	5500	0.2	100	Pass

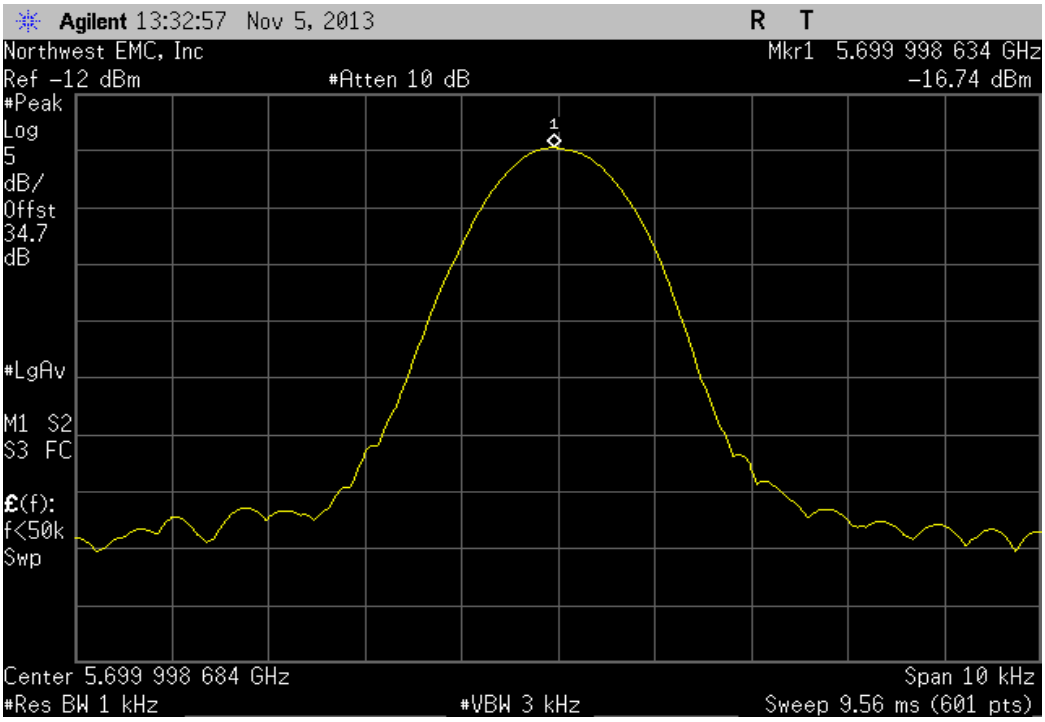


5470 MHz - 5725 MHz - Low Channel, 5500 MHz, Temperature: -30°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5500.001286	5500	0.2	100	Pass

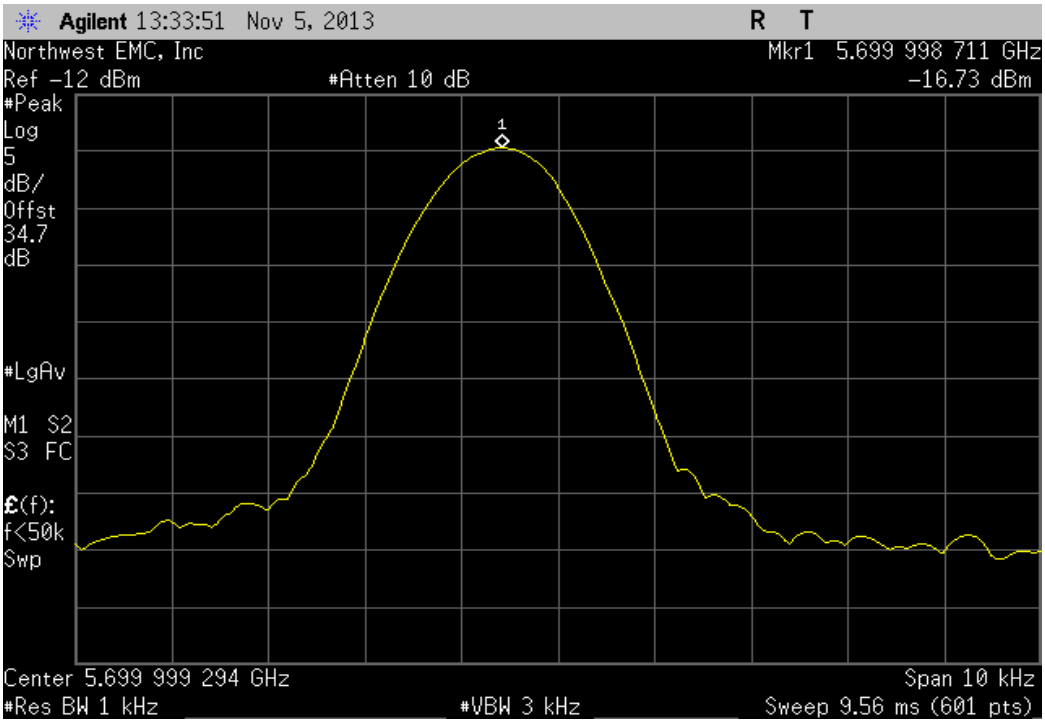


Frequency Stability

5470 MHz - 5725 MHz - High Channel, 5700 MHz, Voltage: 115%						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5699.998634	5700	0.2	100	Pass

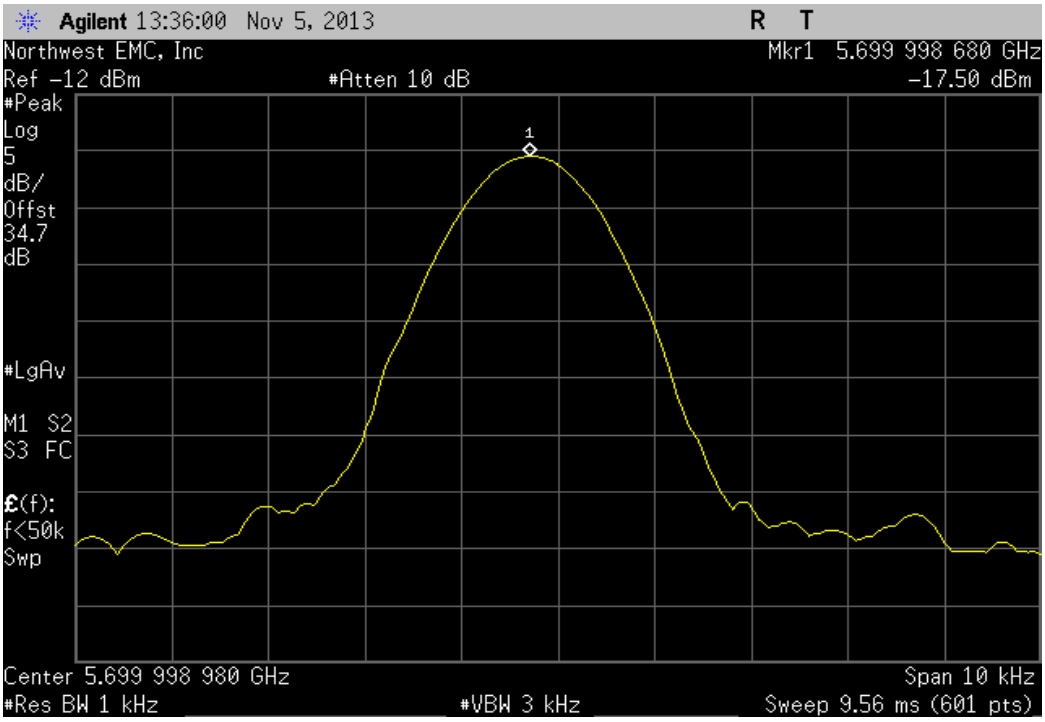


5470 MHz - 5725 MHz - High Channel, 5700 MHz, Voltage: 100%						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5699.998711	5700	0.2	100	Pass

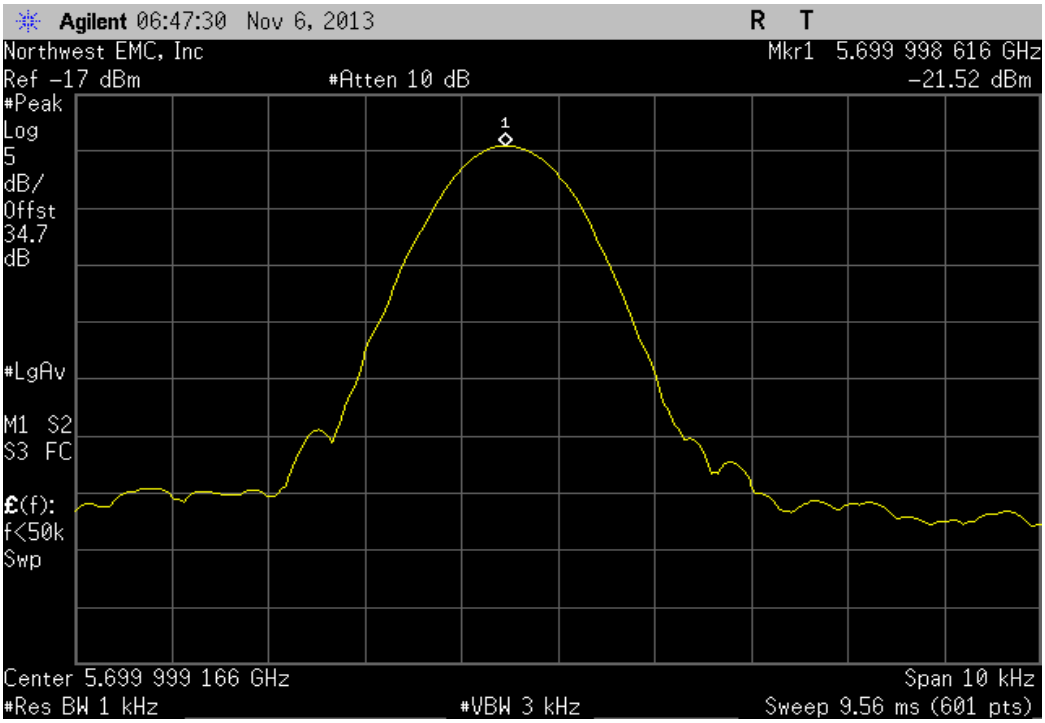


Frequency Stability

5470 MHz - 5725 MHz - High Channel, 5700 MHz, Voltage: 85%						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5699.99868	5700	0.2	100	Pass

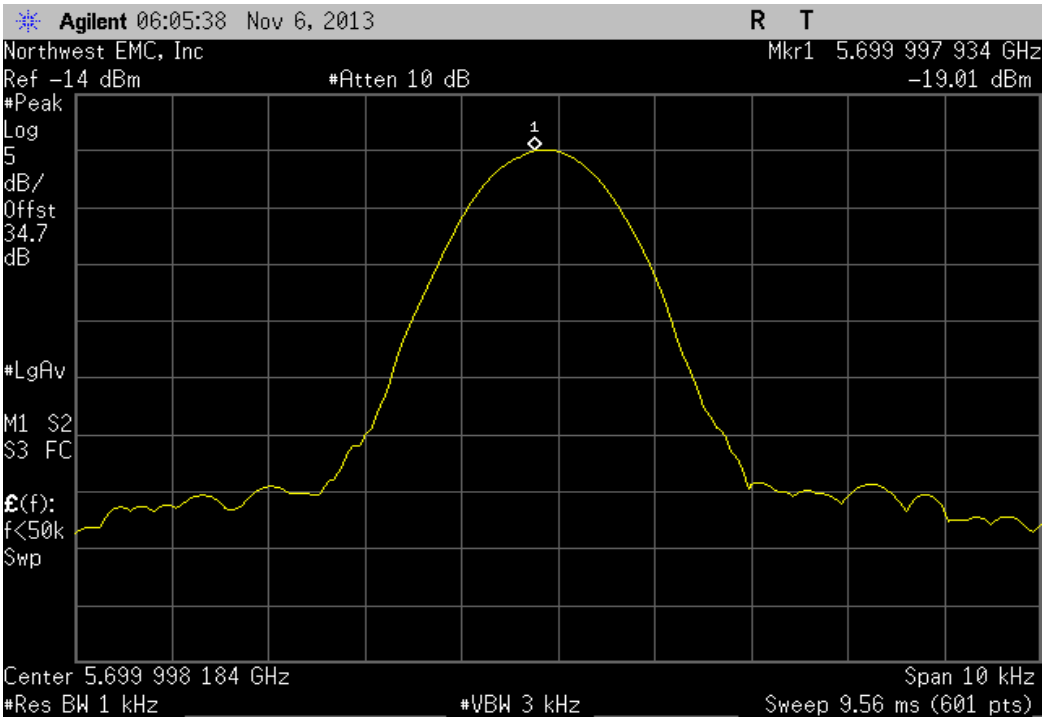


5470 MHz - 5725 MHz - High Channel, 5700 MHz, Temperature: +50°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5699.998616	5700	0.2	100	Pass

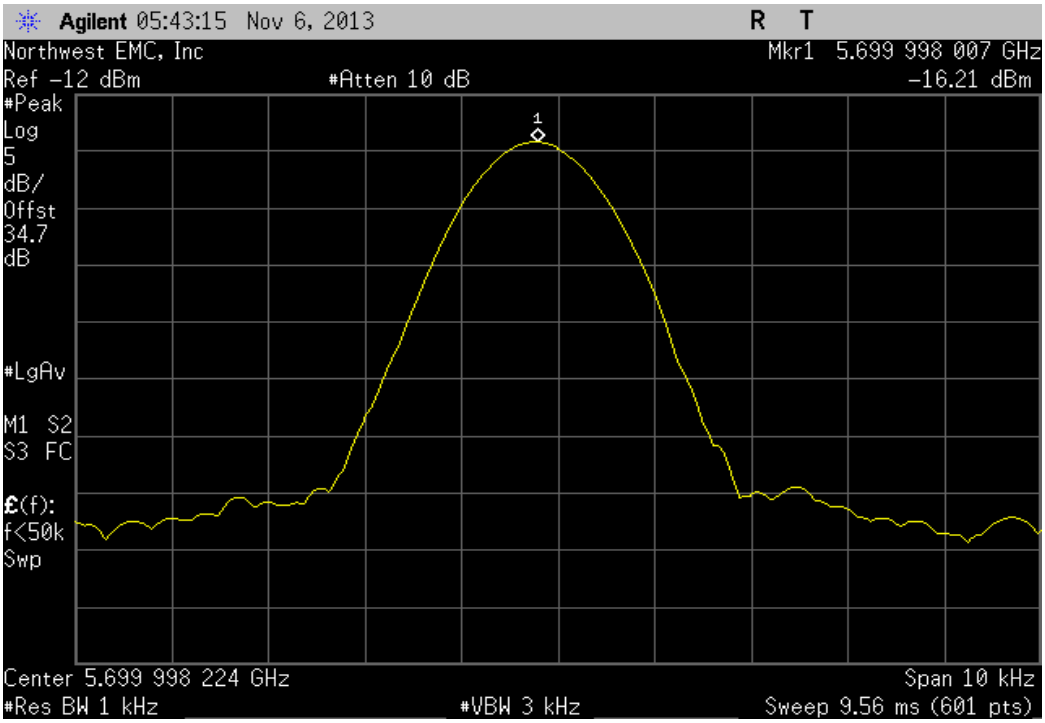


Frequency Stability

5470 MHz - 5725 MHz - High Channel, 5700 MHz, Temperature: +40°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5699.997934	5700	0.4	100	Pass

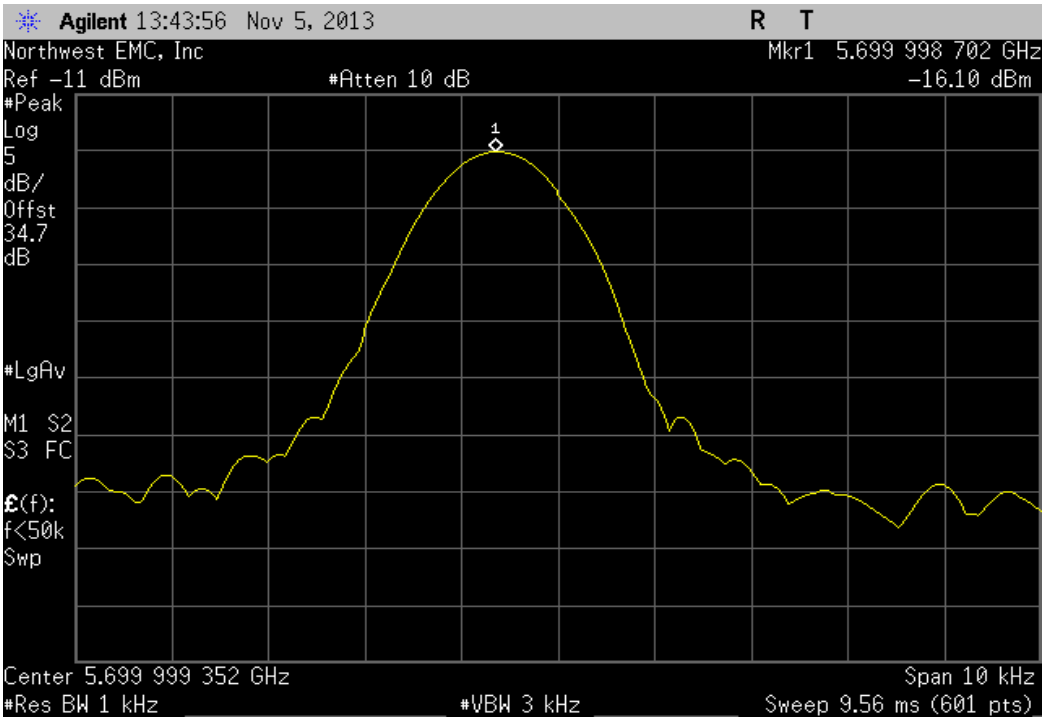


5470 MHz - 5725 MHz - High Channel, 5700 MHz, Temperature: +30°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5699.998007	5700	0.4	100	Pass

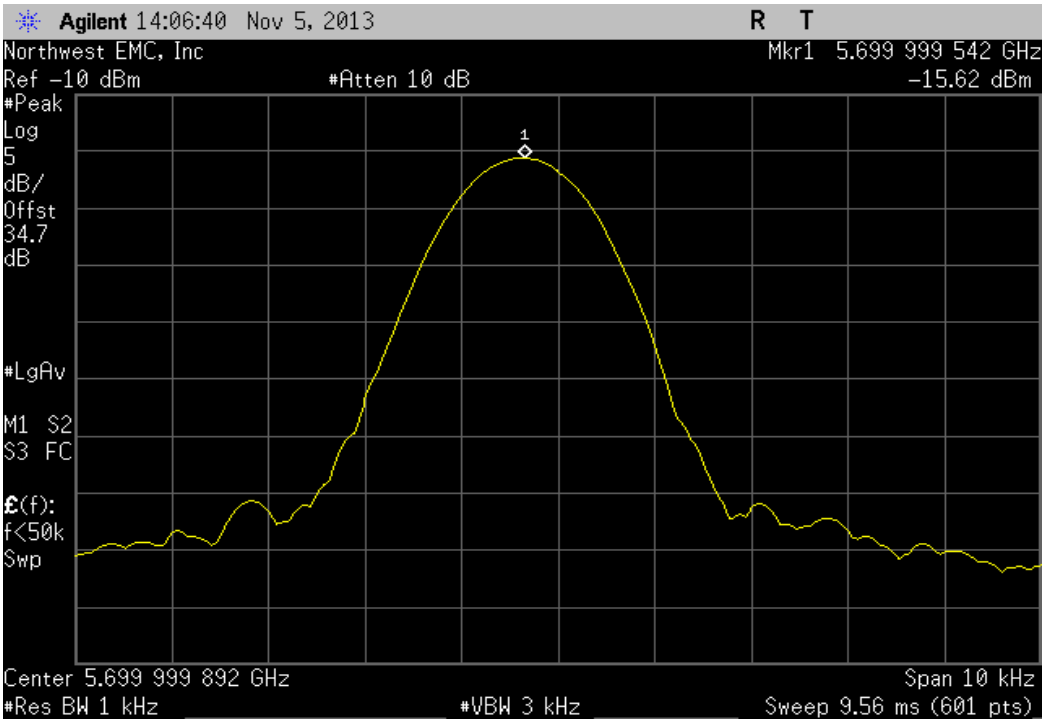


Frequency Stability

5470 MHz - 5725 MHz - High Channel, 5700 MHz, Temperature: +20°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5699.998702	5700	0.2	100	Pass

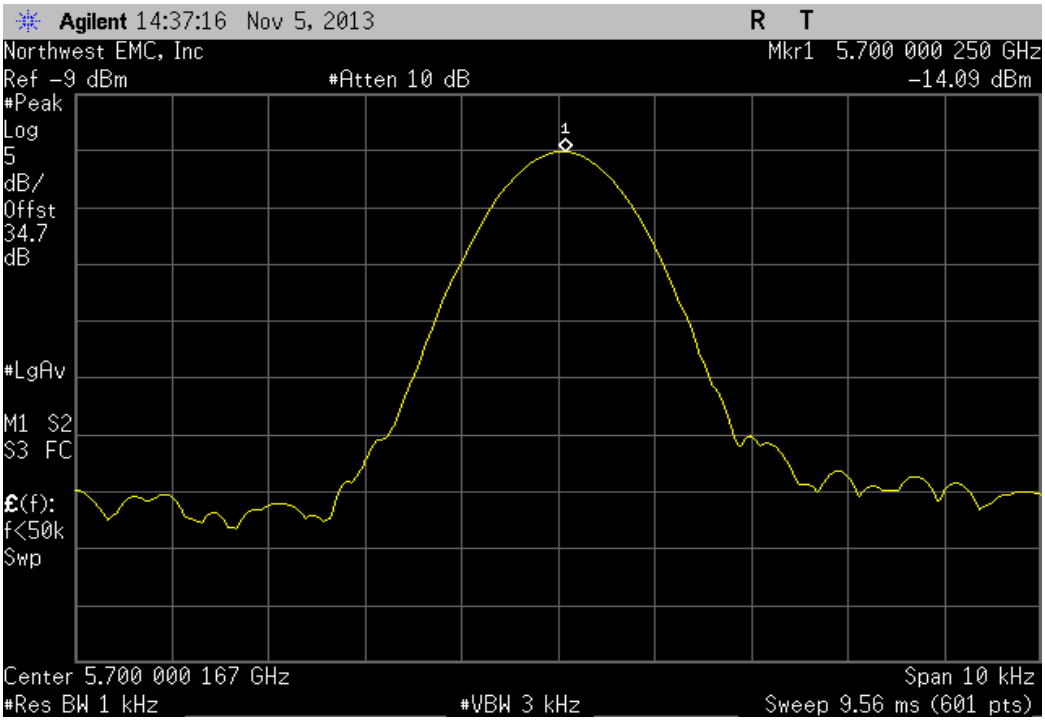


5470 MHz - 5725 MHz - High Channel, 5700 MHz, Temperature: +10°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5699.999542	5700	0.1	100	Pass

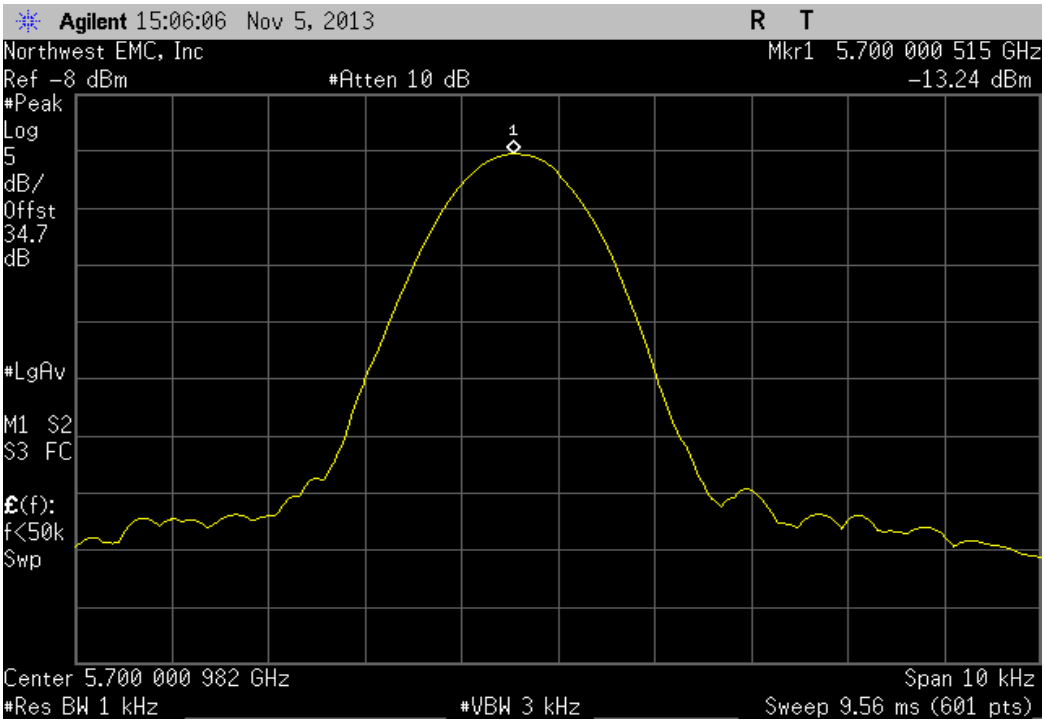


Frequency Stability

5470 MHz - 5725 MHz - High Channel, 5700 MHz, Temperature: 0°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5700.00025	5700	0	100	Pass

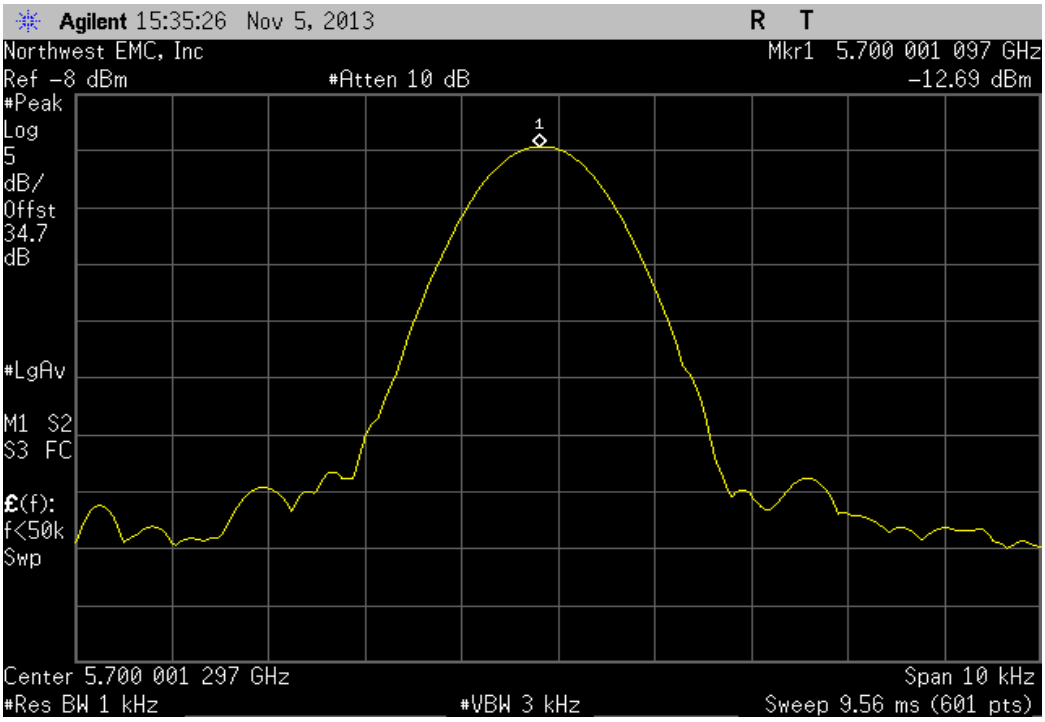


5470 MHz - 5725 MHz - High Channel, 5700 MHz, Temperature: -10°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5700.000515	5700	0.1	100	Pass

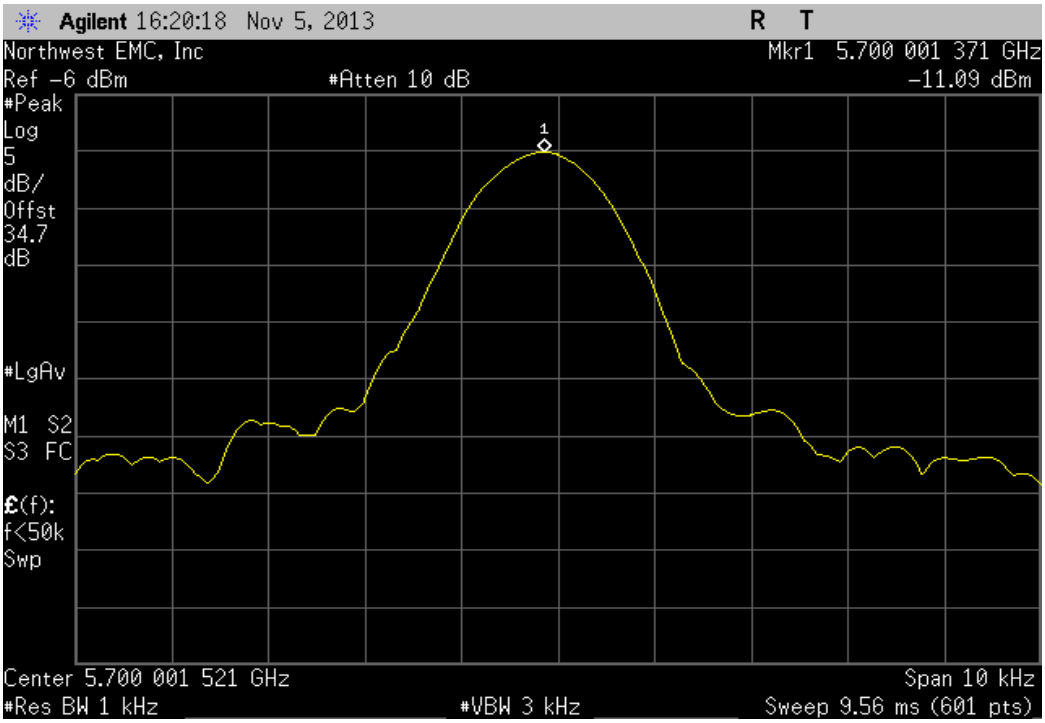


Frequency Stability

5470 MHz - 5725 MHz - High Channel, 5700 MHz, Temperature: -20°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5700.001097	5700	0.2	100	Pass



5470 MHz - 5725 MHz - High Channel, 5700 MHz, Temperature: -30°						
		Measured Value (MHz)	Assigned Value (MHz)	Error (ppm)	Limit (ppm)	Result
		5700.001371	5700	0.2	100	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, 5GHz BAND

802.11(a) 6Mbps
802.11(a) 36Mbps
802.11(a) 54Mbps
802.11(n) MCS0
802.11(n) MCS7

CHANNELS TESTED, 5GHz BAND

Channel 36, 5180 MHz
Channel 48, 5240 MHz
Channel 52, 5260 MHz
Channel 64, 5320 MHz
Channel 100, 5500 MHz
Channel 116, 5580 MHz
Channel 140, 5700 MHz

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

INSD0001 - 1

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	26.5 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
Spectrum Analyzer	Agilent	E4440A	AFD	7/5/2012	24 mo
LP Filter	Micro-Tronics	LPM50004	LFD	7/6/2012	24 mo
Antenna, Horn	EMCO	3115	AHC	6/20/2012	24 mo
Cable	ESM Cable Corp.	KMKM-72	EVY	9/10/2013	12 mo
Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AVU	9/10/2013	12 mo
Antenna, Horn	ETS Lindgren	3160-09	AIV	NCR	0 mo
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVD	10/21/2013	12 mo
Antenna, Horn	ETS	3160-08	AHV	NCR	0 mo
EV01 Cables	N/A	Standard Gain Horns Cables	EVF	10/21/2013	12 mo
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVC	10/21/2013	12 mo
Antenna, Horn	ETS	3160-07	AHU	NCR	0 mo
EV01 Cables	N/A	Double Ridge Horn Cables	EVB	9/2/2013	12 mo
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	6/20/2013	12 mo
Antenna, Horn	ETS	3115	AIZ	1/24/2011	36 mo
BP Filter	Micro-Tronics	BRC50703	HHJ	6/20/2013	36 mo
5.47-5.725 Notch Filter	Micro-Tronics	BRC50704	HGI	10/4/2012	24 mo
5.725-5.875 Notch Filter	Micro-Tronics	BRC50705	HGJ	3/21/2012	24 mo
EV01 Cables	N/A	Bilog Cables	EVA	6/20/2013	12 mo
Pre-Amplifier	Miteq	AM-1616-1000	AOL	6/20/2013	12 mo
Antenna, Biconilog	EMCO	3141	AXG	4/10/2012	36 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

TEST DESCRIPTION

The highest gain antenna of each type to be used with the EUT were tested. The EUT was configured for the lowest, a middle, and the highest transmit frequency in each operational band. For each configuration, the spectrum was scanned throughout the specified range. Measurements were made to satisfy the three requirements of 47 CFR 15.407: Field strength under 1GHz, Restricted Bands of 47 CFR 15.205, and EIRP of 47 CFR 15.407.

While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis, and adjusting the measurement antenna height and polarization (per ANSI C63.10:2009). A preamp and high pass filter (and notch filter) were used for this test in order to provide sufficient measurement sensitivity. (The radio was operated with the customer's test software for the modes tested)
Power Setting by Band:

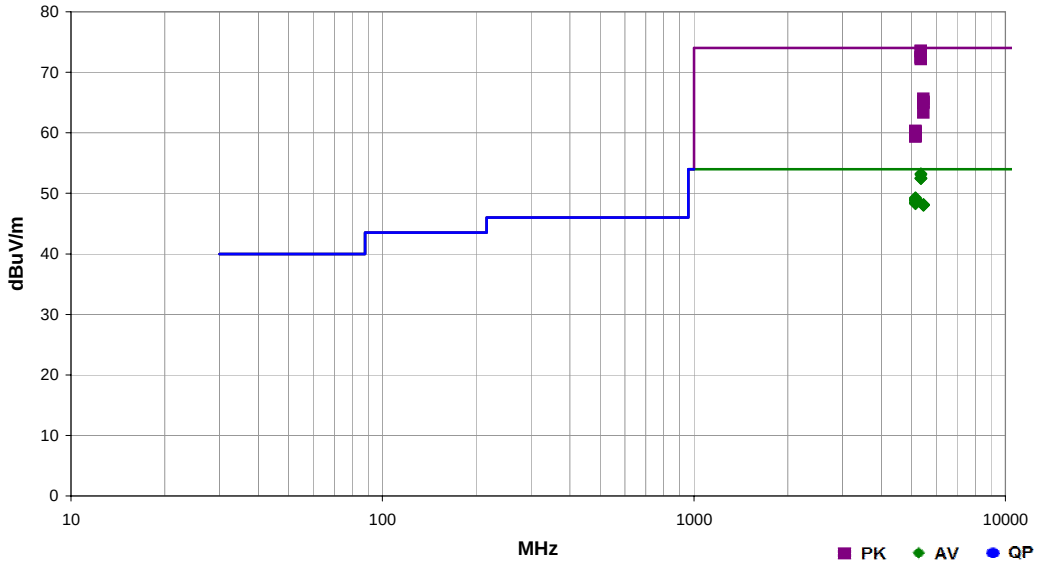
- 5180MHz – 5240MHz, Power setting of 5000
- 5260MHz – 5320MHz, Power setting of 14000

Spurious Radiated Emissions

Work Order:	INSD0001	**Date:**	11/04/13		
Project:	None	**Temperature:**	22.1 °C		
Job Site:	EV01	**Humidity:**	42.1% RH		
Serial Number:	99	**Barometric Pres.:**	1025.4 mbar	**Tested by:**	Brandon Hobbs
EUT:	The EGG				
Configuration:	1				
Customer:	Intel Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	On, Tx (The radio was operated with the customer's test software for the modes tested)				
Deviations:	None				
Comments:	Please reference the data comments for EUT orientation, data rate and frequency				

Test Specifications	**Test Method**
FCC 15.407:2010	ANSI C63.10:2009

Run #	91	**Test Distance (m)**	1	**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
5350.037	45.7	37.4	1.1	258.0	1.0	0.0	Vert	PK	-9.5	73.6	74.0	-0.4	MCS0, Ch.64, 5320 MHz, EUT On side
5350.947	45.6	37.4	1.1	248.0	1.0	0.0	Vert	PK	-9.5	73.5	74.0	-0.5	6Mbps, Ch.64, 5320 MHz, EUT On side
5350.003	25.4	37.4	1.1	252.0	1.0	0.0	Vert	AV	-9.5	53.3	54.0	-0.7	36Mbps, Ch.64, 5320 MHz, EUT On side
5350.047	25.2	37.4	1.1	252.0	1.0	0.0	Vert	AV	-9.5	53.1	54.0	-0.9	54Mbps, Ch.64, 5320 MHz, EUT On side
5350.060	24.7	37.4	1.1	252.0	1.0	0.0	Vert	AV	-9.5	52.6	54.0	-1.4	MCS0, Ch.64, 5320 MHz, EUT On side
5350.000	24.6	37.4	1.1	252.0	1.0	0.0	Vert	AV	-9.5	52.5	54.0	-1.5	MCS7, Ch.64, 5320 MHz, EUT On side
5350.000	24.6	37.4	1.1	252.0	1.0	0.0	Vert	AV	-9.5	52.5	54.0	-1.5	54Mbps, Ch.64, 5320 MHz, EUT On side
5350.363	44.6	37.4	1.1	258.0	1.0	0.0	Vert	PK	-9.5	72.5	74.0	-1.5	36Mbps, Ch.64, 5320 MHz, EUT On side
5350.780	44.6	37.4	1.1	258.0	1.0	0.0	Vert	PK	-9.5	72.5	74.0	-1.5	MSC7, Ch.64, 5320 MHz, EUT On side
5351.067	44.3	37.4	1.1	258.0	1.0	0.0	Vert	PK	-9.5	72.2	74.0	-1.8	54Mbps, Ch.64, 5320 MHz, EUT On side
5149.740	21.9	36.9	1.1	285.0	1.0	0.0	Vert	AV	-9.5	49.3	54.0	-4.7	6Mbps, Ch.36, 5180 MHz, EUT On side
5149.393	21.8	36.9	1.1	297.0	1.0	0.0	Vert	AV	-9.5	49.2	54.0	-4.8	MCS0, Ch.36, 5180 MHz, EUT On side
5149.747	21.7	36.9	1.1	312.0	1.0	0.0	Vert	AV	-9.5	49.1	54.0	-4.9	MCS7, Ch.36, 5180 MHz, EUT On side
5149.663	21.6	36.9	1.1	9.0	1.0	0.0	Horz	AV	-9.5	49.0	54.0	-5.0	6Mbps, Ch.36, 5180 MHz, EUT Horz
5149.710	21.6	36.9	1.1	184.0	1.0	0.0	Horz	AV	-9.5	49.0	54.0	-5.0	54Mbps, Ch.36, 5180 MHz, EUT Horz
5149.533	21.5	36.9	1.1	266.0	1.0	0.0	Vert	AV	-9.5	48.9	54.0	-5.1	36Mbps, Ch.36, 5180 MHz, EUT On side
5149.857	21.5	36.9	1.1	73.0	1.0	0.0	Horz	AV	-9.5	48.9	54.0	-5.1	36Mbps, Ch.36, 5180 MHz, EUT Horz
5149.927	21.5	36.9	1.1	346.0	1.0	0.0	Horz	AV	-9.5	48.9	54.0	-5.1	MSC0, Ch.36, 5180 MHz, EUT Horz
5148.197	21.4	36.9	1.1	322.0	1.0	0.0	Horz	AV	-9.5	48.8	54.0	-5.2	MCS7, Ch.36, 5180 MHz, EUT Horz
5148.637	21.2	36.9	1.1	32.0	1.0	0.0	Vert	AV	-9.5	48.6	54.0	-5.4	54Mbps, Ch.36, 5180 MHz, EUT On side
5148.000	21.1	36.9	1.1	121.0	1.0	0.0	Horz	AV	-9.5	48.5	54.0	-5.5	6Mbps, Ch.36, 5180 MHz, EUT Vert
5149.310	21.1	36.9	1.1	261.0	1.0	0.0	Vert	AV	-9.5	48.5	54.0	-5.5	6Mbps, Ch.36, 5180 MHz, EUT Vert
5148.903	21.0	36.9	1.1	275.0	1.0	0.0	Horz	AV	-9.5	48.4	54.0	-5.6	6Mbps, Ch.36, 5180 MHz, EUT On side
5148.207	20.9	36.9	1.1	47.0	1.0	0.0	Vert	AV	-9.5	48.3	54.0	-5.7	6Mbps, Ch.36, 5180 MHz, EUT Horz
5459.997	20.2	37.5	1.1	287.0	1.0	0.0	Vert	AV	-9.5	48.1	54.0	-5.9	6Mbps, Ch.100, 5500 MHz, EUT On side
5459.990	20.2	37.5	1.1	287.0	1.0	0.0	Vert	AV	-9.5	48.1	54.0	-5.9	54Mbps, Ch.100, 5500 MHz, EUT On side
5459.987	20.2	37.5	1.1	287.0	1.0	0.0	Vert	AV	-9.5	48.1	54.0	-5.9	MCS0, Ch.100, 5500 MHz, EUT On side
5460.000	20.2	37.5	1.1	287.0	1.0	0.0	Vert	AV	-9.5	48.1	54.0	-5.9	MCS7, Ch.100, 5500 MHz, EUT On side
5459.890	20.1	37.5	1.1	287.0	1.0	0.0	Vert	AV	-9.5	48.0	54.0	-6.0	36Mbps, Ch.100, 5500 MHz, EUT On side
5459.360	37.7	37.5	1.1	287.0	1.0	0.0	Vert	PK	-9.5	65.6	74.0	-8.4	MCS0, Ch.100, 5500 MHz, EUT On side
5458.923	37.2	37.5	1.1	287.0	1.0	0.0	Vert	PK	-9.5	65.1	74.0	-8.9	6Mbps, Ch.100, 5500 MHz, EUT On side
5459.677	37.1	37.5	1.1	287.0	1.0	0.0	Vert	PK	-9.5	65.0	74.0	-9.0	54Mbps, Ch.100, 5500 MHz, EUT On side
5459.683	37.0	37.5	1.1	287.0	1.0	0.0	Vert	PK	-9.5	64.9	74.0	-9.1	MCS7, Ch.100, 5500 MHz, EUT On side
5459.980	35.4	37.5	1.1	287.0	1.0	0.0	Vert	PK	-9.5	63.3	74.0	-10.7	36Mbps, Ch.100, 5500 MHz, EUT On side

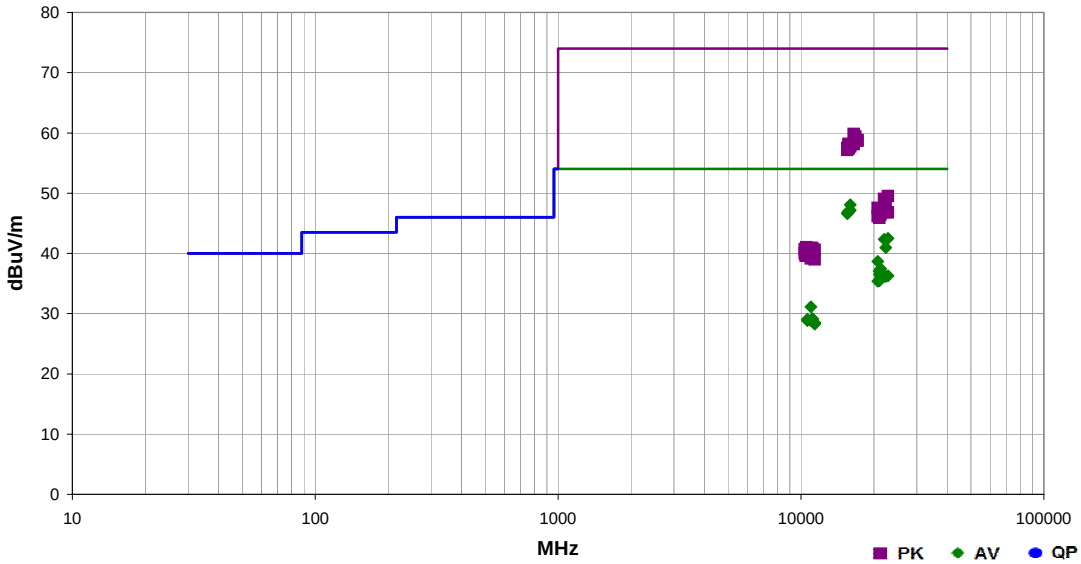
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
5149.080	32.9	36.9	1.1	266.0	1.0	0.0	Vert	PK	-9.5	60.3	74.0	-13.7	36Mbps, Ch.36, 5180 MHz, EUT On side
5149.253	32.9	36.9	1.1	322.0	1.0	0.0	Horz	PK	-9.5	60.3	74.0	-13.7	MCS7, Ch.36, 5180 MHz, EUT Horz
5149.513	32.8	36.9	1.1	184.0	1.0	0.0	Horz	PK	-9.5	60.2	74.0	-13.8	54Mbps, Ch.36, 5180 MHz, EUT Horz
5149.803	32.7	36.9	1.1	285.0	1.0	0.0	Vert	PK	-9.5	60.1	74.0	-13.9	6Mbps, Ch.36, 5180 MHz, EUT On side
5149.793	32.7	36.9	1.1	73.0	1.0	0.0	Horz	PK	-9.5	60.1	74.0	-13.9	36Mbps, Ch.36, 5180 MHz, EUT Horz
5148.367	32.5	36.9	1.1	312.0	1.0	0.0	Vert	PK	-9.5	59.9	74.0	-14.1	MCS7, Ch.36, 5180 MHz, EUT On side
5148.507	32.5	36.9	1.1	9.0	1.0	0.0	Horz	PK	-9.5	59.9	74.0	-14.1	6Mbps, Ch.36, 5180 MHz, EUT Horz
5148.340	32.3	36.9	1.1	346.0	1.0	0.0	Horz	PK	-9.5	59.7	74.0	-14.3	MSC0, Ch.36, 5180 MHz, EUT Horz
5148.903	32.3	36.9	1.1	297.0	1.0	0.0	Vert	PK	-9.5	59.7	74.0	-14.3	MCS0, Ch.36, 5180 MHz, EUT On side
5149.323	32.2	36.9	1.1	275.0	1.0	0.0	Horz	PK	-9.5	59.6	74.0	-14.4	6Mbps, Ch.36, 5180 MHz, EUT On side
5149.493	32.2	36.9	1.1	47.0	1.0	0.0	Vert	PK	-9.5	59.6	74.0	-14.4	6Mbps, Ch.36, 5180 MHz, EUT Horz
5149.223	32.1	36.9	1.1	261.0	1.0	0.0	Vert	PK	-9.5	59.5	74.0	-14.5	6Mbps, Ch.36, 5180 MHz, EUT Vert
5149.923	32.1	36.9	1.1	121.0	1.0	0.0	Horz	PK	-9.5	59.5	74.0	-14.5	6Mbps, Ch.36, 5180 MHz, EUT Vert
5149.000	32.0	36.9	1.1	32.0	1.0	0.0	Vert	PK	-9.5	59.4	74.0	-14.6	54Mbps, Ch.36, 5180 MHz, EUT On side

Spurious Radiated Emissions

Work Order:	INSD0001	**Date:**	11/04/13		
Project:	None	**Temperature:**	22 °C		
Job Site:	EV01	**Humidity:**	37.7% RH		
Serial Number:	99	**Barometric Pres.:**	1021 mbar	**Tested by:**	Brandon Hobbs
EUT:	The EGG				
Configuration:	1				
Customer:	Intel Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	On, Tx (The radio was operated with the customer's test software for the modes tested)				
Deviations:	None				
Comments:	Please reference the data comments for EUT orientation, data rate and frequency				

Test Specifications	**Test Method**
FCC 15.407:2010	ANSI C63.10:2009

Run #	87	**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
15959.970	27.9	20.2	1.3	273.0	3.0	0.0	Horz	AV	0.0	48.1	54.0	-5.9	6Mbps Ch.64, 5320 MHz, EUT On Side
15960.480	27.0	20.2	1.0	151.0	3.0	0.0	Vert	AV	0.0	47.2	54.0	-6.8	6Mbps Ch.64, 5320 MHz, EUT On Side
15778.930	27.1	19.9	1.0	60.0	3.0	0.0	Vert	AV	0.0	47.0	54.0	-7.0	6Mbps Ch.52, 5260 MHz, EUT On Side
15778.280	27.1	19.9	1.0	51.0	3.0	0.0	Horz	AV	0.0	47.0	54.0	-7.0	6Mbps Ch.52, 5260 MHz, EUT On Side
15720.570	27.1	19.8	1.0	53.0	3.0	0.0	Horz	AV	0.0	46.9	54.0	-7.1	6Mbps Ch.48, 5240 MHz, EUT On Side
15718.870	27.1	19.8	1.0	167.0	3.0	0.0	Vert	AV	0.0	46.9	54.0	-7.1	6Mbps Ch.48, 5240 MHz, EUT On Side
15540.610	27.2	19.5	1.0	299.0	3.0	0.0	Horz	AV	0.0	46.7	54.0	-7.3	6Mbps Ch.36, 5180 MHz, EUT On Side
15540.230	27.1	19.5	1.0	87.0	3.0	0.0	Vert	AV	0.0	46.6	54.0	-7.4	6Mbps Ch.36, 5180 MHz, EUT On Side
22800.050	42.1	0.4	1.1	274.0	3.0	0.0	Horz	AV	0.0	42.5	54.0	-11.5	6Mbps Ch.140, 5700 MHz, EUT On Side
21999.980	42.1	0.2	1.1	274.0	3.0	0.0	Horz	AV	0.0	42.3	54.0	-11.7	6Mbps Ch.100, 5500 MHz, EUT On Side
22319.940	40.6	0.4	1.1	274.0	3.0	0.0	Horz	AV	0.0	41.0	54.0	-13.0	6Mbps Ch.116, 5580 MHz, EUT On Side
16500.580	38.6	21.2	1.0	42.0	3.0	0.0	Vert	PK	0.0	59.8	74.0	-14.2	6Mbps Ch.100, 5500 MHz, EUT On Side
16738.160	37.7	21.7	1.2	339.0	3.0	0.0	Horz	PK	0.0	59.4	74.0	-14.6	6Mbps Ch.116, 5580 MHz, EUT On Side
16739.730	37.3	21.7	1.6	330.0	3.0	0.0	Vert	PK	0.0	59.0	74.0	-15.0	6Mbps Ch.116, 5580 MHz, EUT On Side
17100.050	36.9	21.9	1.0	337.0	3.0	0.0	Horz	PK	0.0	58.8	74.0	-15.2	6Mbps Ch.140, 5700 MHz, EUT On Side
17097.740	36.8	21.9	1.0	164.0	3.0	0.0	Vert	PK	0.0	58.7	74.0	-15.3	6Mbps Ch.140, 5700 MHz, EUT On Side
20720.030	39.2	-0.5	1.1	263.0	3.0	0.0	Horz	AV	0.0	38.7	54.0	-15.3	6Mbps Ch.36, 5180 MHz, EUT On Side
15721.630	38.3	19.8	1.0	53.0	3.0	0.0	Horz	PK	0.0	58.1	74.0	-15.9	6Mbps Ch.48, 5240 MHz, EUT On Side
16497.970	36.9	21.2	1.0	240.0	3.0	0.0	Horz	PK	0.0	58.1	74.0	-15.9	6Mbps Ch.100, 5500 MHz, EUT On Side
15957.780	37.8	20.1	1.0	151.0	3.0	0.0	Vert	PK	0.0	57.9	74.0	-16.1	6Mbps Ch.64, 5320 MHz, EUT On Side
15719.450	38.0	19.8	1.0	167.0	3.0	0.0	Vert	PK	0.0	57.8	74.0	-16.2	6Mbps Ch.48, 5240 MHz, EUT On Side
15958.930	37.6	20.2	1.3	273.0	3.0	0.0	Horz	PK	0.0	57.8	74.0	-16.2	6Mbps Ch.64, 5320 MHz, EUT On Side
15781.560	37.7	19.9	1.0	51.0	3.0	0.0	Horz	PK	0.0	57.6	74.0	-16.4	6Mbps Ch.52, 5260 MHz, EUT On Side
15538.070	38.0	19.5	1.0	299.0	3.0	0.0	Horz	PK	0.0	57.5	74.0	-16.5	6Mbps Ch.36, 5180 MHz, EUT On Side
21279.970	37.7	-0.2	1.1	274.0	3.0	0.0	Horz	AV	0.0	37.5	54.0	-16.5	6Mbps Ch.64, 5320 MHz, EUT On Side
15779.680	37.5	19.9	1.0	60.0	3.0	0.0	Vert	PK	0.0	57.4	74.0	-16.6	6Mbps Ch.52, 5260 MHz, EUT On Side
15538.360	37.7	19.5	1.0	87.0	3.0	0.0	Vert	PK	0.0	57.2	74.0	-16.8	6Mbps Ch.36, 5180 MHz, EUT On Side
20959.940	37.4	-0.3	1.1	274.0	3.0	0.0	Horz	AV	0.0	37.1	54.0	-16.9	6Mbps Ch.48, 5240 MHz, EUT On Side
21040.050	36.8	-0.3	1.1	274.0	3.0	0.0	Horz	AV	0.0	36.5	54.0	-17.5	6Mbps Ch.52, 5260 MHz, EUT On Side
22800.180	35.9	0.4	1.1	276.0	3.0	0.0	Vert	AV	0.0	36.3	54.0	-17.7	6Mbps Ch.140, 5700 MHz, EUT On Side
22002.340	36.0	0.2	1.1	301.0	3.0	0.0	Vert	AV	0.0	36.2	54.0	-17.8	6Mbps Ch.100, 5500 MHz, EUT On Side
22321.570	35.8	0.4	1.1	301.0	3.0	0.0	Vert	AV	0.0	36.2	54.0	-17.8	6Mbps Ch.116, 5580 MHz, EUT On Side
21279.180	36.3	-0.2	1.1	301.0	3.0	0.0	Vert	AV	0.0	36.1	54.0	-17.9	6Mbps Ch.64, 5320 MHz, EUT On Side
21040.220	35.8	-0.3	1.1	301.0	3.0	0.0	Vert	AV	0.0	35.5	54.0	-18.5	6Mbps Ch.52, 5260 MHz, EUT On Side

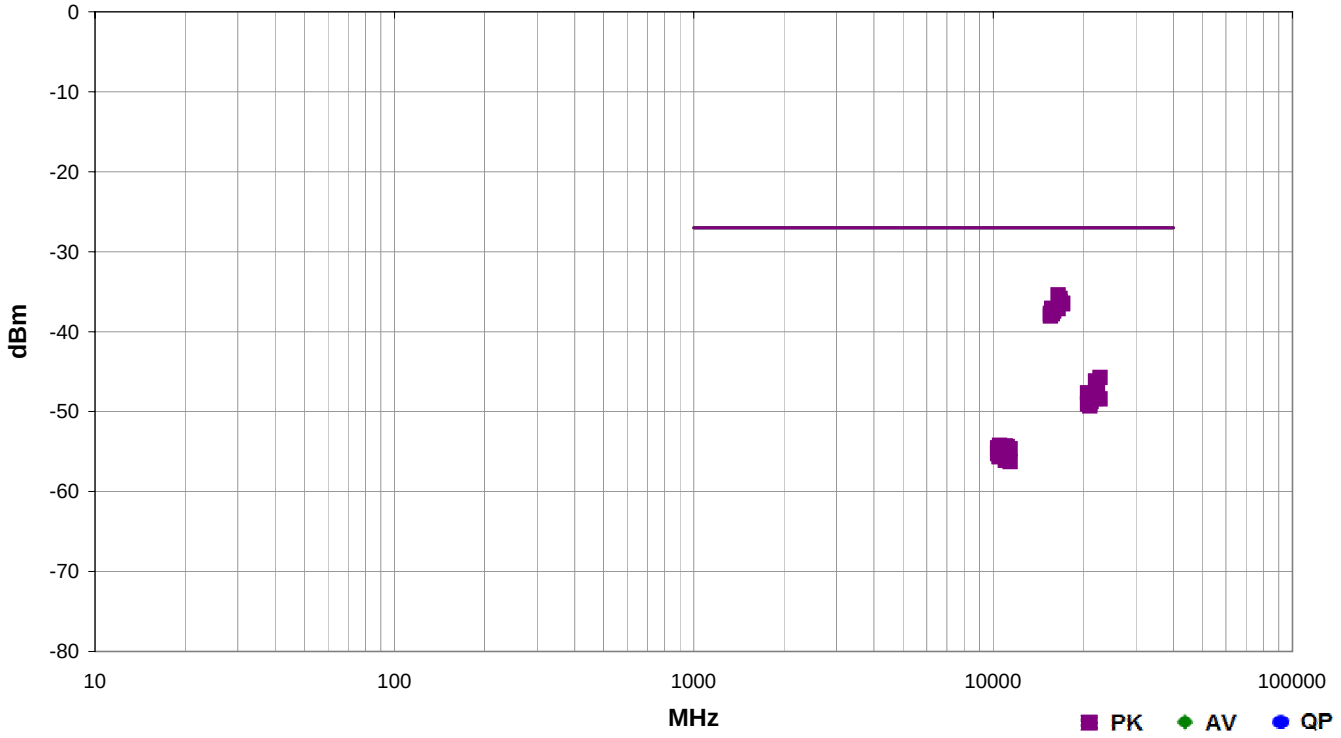
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
20958.060	35.8	-0.3	1.1	301.0	3.0	0.0	Vert	AV	0.0	35.5	54.0	-18.5	6Mbps Ch.48, 5240 MHz, EUT On Side
20722.420	35.9	-0.5	1.1	301.0	3.0	0.0	Vert	AV	0.0	35.4	54.0	-18.6	6Mbps Ch.36, 5180 MHz, EUT On Side
11000.060	40.0	-8.9	1.5	249.0	3.0	0.0	Vert	AV	0.0	31.1	54.0	-22.9	6Mbps Ch.100, 5500 MHz, EUT On Side
22800.040	49.1	0.4	1.1	274.0	3.0	0.0	Horz	PK	0.0	49.5	74.0	-24.5	6Mbps Ch.140, 5700 MHz, EUT On Side
11161.690	37.4	-8.3	1.0	120.0	3.0	0.0	Horz	AV	0.0	29.1	54.0	-24.9	6Mbps Ch.116, 5580 MHz, EUT On Side
10621.330	39.7	-10.6	1.0	24.0	3.0	0.0	Vert	AV	0.0	29.1	54.0	-24.9	6Mbps Ch.64, 5320 MHz, EUT On Side
11159.960	37.3	-8.3	1.0	283.0	3.0	0.0	Vert	AV	0.0	29.0	54.0	-25.0	6Mbps Ch.116, 5580 MHz, EUT On Side
22000.370	48.8	0.2	1.1	274.0	3.0	0.0	Horz	PK	0.0	49.0	74.0	-25.0	6Mbps Ch.100, 5500 MHz, EUT On Side
10621.930	39.5	-10.6	1.0	237.0	3.0	0.0	Horz	AV	0.0	28.9	54.0	-25.1	6Mbps Ch.64, 5320 MHz, EUT On Side
10999.930	37.7	-8.9	1.0	322.0	3.0	0.0	Horz	AV	0.0	28.8	54.0	-25.2	6Mbps Ch.100, 5500 MHz, EUT On Side
11402.230	35.8	-7.3	1.0	264.0	3.0	0.0	Horz	AV	0.0	28.5	54.0	-25.5	6Mbps Ch.140, 5700 MHz, EUT On Side
22320.570	48.0	0.4	1.1	274.0	3.0	0.0	Horz	PK	0.0	48.4	74.0	-25.6	6Mbps Ch.116, 5580 MHz, EUT On Side
11400.060	35.6	-7.3	1.0	285.0	3.0	0.0	Vert	AV	0.0	28.3	54.0	-25.7	6Mbps Ch.140, 5700 MHz, EUT On Side
20719.840	48.1	-0.5	1.1	263.0	3.0	0.0	Horz	PK	0.0	47.6	74.0	-26.4	6Mbps Ch.36, 5180 MHz, EUT On Side
20960.040	47.7	-0.3	1.1	274.0	3.0	0.0	Horz	PK	0.0	47.4	74.0	-26.6	6Mbps Ch.48, 5240 MHz, EUT On Side
21279.900	47.4	-0.2	1.1	274.0	3.0	0.0	Horz	PK	0.0	47.2	74.0	-26.8	6Mbps Ch.64, 5320 MHz, EUT On Side
22318.360	46.5	0.4	1.1	301.0	3.0	0.0	Vert	PK	0.0	46.9	74.0	-27.1	6Mbps Ch.116, 5580 MHz, EUT On Side
22002.110	46.6	0.2	1.1	301.0	3.0	0.0	Vert	PK	0.0	46.8	74.0	-27.2	6Mbps Ch.100, 5500 MHz, EUT On Side
22800.420	46.4	0.4	1.1	276.0	3.0	0.0	Vert	PK	0.0	46.8	74.0	-27.2	6Mbps Ch.140, 5700 MHz, EUT On Side
20961.780	46.8	-0.3	1.1	301.0	3.0	0.0	Vert	PK	0.0	46.5	74.0	-27.5	6Mbps Ch.48, 5240 MHz, EUT On Side
21280.130	46.7	-0.2	1.1	301.0	3.0	0.0	Vert	PK	0.0	46.5	74.0	-27.5	6Mbps Ch.64, 5320 MHz, EUT On Side
21039.410	46.5	-0.3	1.1	274.0	3.0	0.0	Horz	PK	0.0	46.2	74.0	-27.8	6Mbps Ch.52, 5260 MHz, EUT On Side
20719.750	46.7	-0.5	1.1	301.0	3.0	0.0	Vert	PK	0.0	46.2	74.0	-27.8	6Mbps Ch.36, 5180 MHz, EUT On Side
21042.470	46.2	-0.3	1.1	301.0	3.0	0.0	Vert	PK	0.0	45.9	74.0	-28.1	6Mbps Ch.52, 5260 MHz, EUT On Side
10520.060	52.1	-11.1	1.4	255.0	3.0	0.0	Horz	PK	0.0	41.0	74.0	-33.0	6Mbps Ch.52, 5260 MHz, EUT On Side
11000.020	49.8	-8.9	1.5	249.0	3.0	0.0	Vert	PK	0.0	40.9	74.0	-33.1	6Mbps Ch.100, 5500 MHz, EUT On Side
11159.020	49.1	-8.3	1.0	120.0	3.0	0.0	Horz	PK	0.0	40.8	74.0	-33.2	6Mbps Ch.116, 5580 MHz, EUT On Side
10360.510	52.2	-11.5	1.5	279.0	3.0	0.0	Vert	PK	0.0	40.7	74.0	-33.3	6Mbps Ch.36, 5180 MHz, EUT On Side
10621.500	51.3	-10.6	1.0	237.0	3.0	0.0	Horz	PK	0.0	40.7	74.0	-33.3	6Mbps Ch.64, 5320 MHz, EUT On Side
11401.740	47.9	-7.3	1.0	264.0	3.0	0.0	Horz	PK	0.0	40.6	74.0	-33.4	6Mbps Ch.140, 5700 MHz, EUT On Side
10618.970	51.2	-10.7	1.0	24.0	3.0	0.0	Vert	PK	0.0	40.5	74.0	-33.5	6Mbps Ch.64, 5320 MHz, EUT On Side
10519.950	51.4	-11.1	1.4	269.0	3.0	0.0	Vert	PK	0.0	40.3	74.0	-33.7	6Mbps Ch.52, 5260 MHz, EUT On Side
10359.710	51.5	-11.5	1.0	209.0	3.0	0.0	Horz	PK	0.0	40.0	74.0	-34.0	6Mbps Ch.36, 5180 MHz, EUT On Side
10480.000	50.9	-11.3	1.0	267.0	3.0	0.0	Vert	PK	0.0	39.6	74.0	-34.4	6Mbps Ch.48, 5240 MHz, EUT On Side
10481.910	50.8	-11.2	1.0	279.0	3.0	0.0	Horz	PK	0.0	39.6	74.0	-34.4	6Mbps Ch.48, 5240 MHz, EUT On Side
11161.530	47.5	-8.3	1.0	283.0	3.0	0.0	Vert	PK	0.0	39.2	74.0	-34.8	6Mbps Ch.116, 5580 MHz, EUT On Side
11002.090	48.0	-8.9	1.0	322.0	3.0	0.0	Horz	PK	0.0	39.1	74.0	-34.9	6Mbps Ch.100, 5500 MHz, EUT On Side
11400.660	46.3	-7.3	1.0	285.0	3.0	0.0	Vert	PK	0.0	39.0	74.0	-35.0	6Mbps Ch.140, 5700 MHz, EUT On Side

Spurious Radiated Emissions

Work Order:	INSD0001	**Date:**	11/04/13		
Project:	None	**Temperature:**	22 °C		
Job Site:	EV01	**Humidity:**	37.7% RH		
Serial Number:	99	**Barometric Pres.:**	1021 mbar	**Tested by:**	Brandon Hobbs
EUT:	The EGG				
Configuration:	1				
Customer:	Intel Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	On, Tx (The radio was operated with the customer's test software for the modes tested)				
Deviations:	None				
Comments:	Please reference the data comments for EUT orientation, data rate and frequency				

Test Specifications	**Test Method**
FCC 15.407:2010	ANSI C63.10:2009

Run #	87	**Test Distance (m)**	3	**Antenna Height(s)**	1-4m	**Results**	Pass



	Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/ Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
	16500.580	1.0	42.0	Vert	PK	2.87E-07	-35.4	-27.0	-8.4	6Mbps Ch.100, 5500 MHz, EUT On Side
	16738.160	1.2	339.0	Horz	PK	2.60E-07	-35.9	-27.0	-8.9	6Mbps Ch.116, 5580 MHz, EUT On Side
	16739.730	1.6	330.0	Vert	PK	2.37E-07	-36.2	-27.0	-9.2	6Mbps Ch.116, 5580 MHz, EUT On Side
	17100.050	1.0	337.0	Horz	PK	2.27E-07	-36.4	-27.0	-9.4	6Mbps Ch.140, 5700 MHz, EUT On Side
	17097.740	1.0	164.0	Vert	PK	2.21E-07	-36.6	-27.0	-9.6	6Mbps Ch.140, 5700 MHz, EUT On Side
	15721.630	1.0	53.0	Horz	PK	1.96E-07	-37.1	-27.0	-10.1	6Mbps Ch.48, 5240 MHz, EUT On Side
	16497.970	1.0	240.0	Horz	PK	1.93E-07	-37.1	-27.0	-10.1	6Mbps Ch.100, 5500 MHz, EUT On Side
	15957.780	1.0	151.0	Vert	PK	1.87E-07	-37.3	-27.0	-10.3	6Mbps Ch.64, 5320 MHz, EUT On Side
	15719.450	1.0	167.0	Vert	PK	1.82E-07	-37.4	-27.0	-10.4	6Mbps Ch.48, 5240 MHz, EUT On Side

	Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/ Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
	15958.930	1.3	273.0	Horz	PK	1.79E-07	-37.5	-27.0	-10.5	6Mbps Ch.64, 5320 MHz, EUT On Side
	15781.560	1.0	51.0	Horz	PK	1.74E-07	-37.6	-27.0	-10.6	6Mbps Ch.52, 5260 MHz, EUT On Side
	15538.070	1.0	299.0	Horz	PK	1.68E-07	-37.8	-27.0	-10.8	6Mbps Ch.36, 5180 MHz, EUT On Side
	15779.680	1.0	60.0	Vert	PK	1.66E-07	-37.8	-27.0	-10.8	6Mbps Ch.52, 5260 MHz, EUT On Side
	15538.360	1.0	87.0	Vert	PK	1.57E-07	-38.1	-27.0	-11.1	6Mbps Ch.36, 5180 MHz, EUT On Side
	22800.040	1.1	274.0	Horz	PK	2.67E-08	-45.7	-27.0	-18.7	6Mbps Ch.140, 5700 MHz, EUT On Side
	22000.370	1.1	274.0	Horz	PK	2.40E-08	-46.2	-27.0	-19.2	6Mbps Ch.100, 5500 MHz, EUT On Side
	22320.570	1.1	274.0	Horz	PK	2.06E-08	-46.9	-27.0	-19.9	6Mbps Ch.116, 5580 MHz, EUT On Side
	20719.840	1.1	263.0	Horz	PK	1.71E-08	-47.7	-27.0	-20.7	6Mbps Ch.36, 5180 MHz, EUT On Side
	20960.040	1.1	274.0	Horz	PK	1.64E-08	-47.9	-27.0	-20.9	6Mbps Ch.48, 5240 MHz, EUT On Side
	21279.900	1.1	274.0	Horz	PK	1.56E-08	-48.1	-27.0	-21.1	6Mbps Ch.64, 5320 MHz, EUT On Side
	22318.360	1.1	301.0	Vert	PK	1.46E-08	-48.4	-27.0	-21.4	6Mbps Ch.116, 5580 MHz, EUT On Side
	22002.110	1.1	301.0	Vert	PK	1.45E-08	-48.4	-27.0	-21.4	6Mbps Ch.100, 5500 MHz, EUT On Side
	22800.420	1.1	276.0	Vert	PK	1.44E-08	-48.4	-27.0	-21.4	6Mbps Ch.140, 5700 MHz, EUT On Side
	20961.780	1.1	301.0	Vert	PK	1.33E-08	-48.8	-27.0	-21.8	6Mbps Ch.48, 5240 MHz, EUT On Side
	21280.130	1.1	301.0	Vert	PK	1.33E-08	-48.8	-27.0	-21.8	6Mbps Ch.64, 5320 MHz, EUT On Side
	21039.410	1.1	274.0	Horz	PK	1.25E-08	-49.0	-27.0	-22.0	6Mbps Ch.52, 5260 MHz, EUT On Side
	20719.750	1.1	301.0	Vert	PK	1.24E-08	-49.1	-27.0	-22.1	6Mbps Ch.36, 5180 MHz, EUT On Side
	21042.470	1.1	301.0	Vert	PK	1.17E-08	-49.3	-27.0	-22.3	6Mbps Ch.52, 5260 MHz, EUT On Side
	10520.060	1.4	255.0	Horz	PK	3.76E-09	-54.2	-27.0	-27.2	6Mbps Ch.52, 5260 MHz, EUT On Side
	11000.020	1.5	249.0	Vert	PK	3.71E-09	-54.3	-27.0	-27.3	6Mbps Ch.100, 5500 MHz, EUT On Side
	11159.020	1.0	120.0	Horz	PK	3.64E-09	-54.4	-27.0	-27.4	6Mbps Ch.116, 5580 MHz, EUT On Side
	10360.510	1.5	279.0	Vert	PK	3.51E-09	-54.5	-27.0	-27.5	6Mbps Ch.36, 5180 MHz, EUT On Side
	10621.500	1.0	237.0	Horz	PK	3.49E-09	-54.6	-27.0	-27.6	6Mbps Ch.64, 5320 MHz, EUT On Side
	11401.740	1.0	264.0	Horz	PK	3.42E-09	-54.7	-27.0	-27.7	6Mbps Ch.140, 5700 MHz, EUT On Side
	10618.970	1.0	24.0	Vert	PK	3.40E-09	-54.7	-27.0	-27.7	6Mbps Ch.64, 5320 MHz, EUT On Side
	10519.950	1.4	269.0	Vert	PK	3.20E-09	-54.9	-27.0	-27.9	6Mbps Ch.52, 5260 MHz, EUT On Side
	10359.710	1.0	209.0	Horz	PK	2.99E-09	-55.2	-27.0	-28.2	6Mbps Ch.36, 5180 MHz, EUT On Side
	10480.000	1.0	267.0	Vert	PK	2.77E-09	-55.6	-27.0	-28.6	6Mbps Ch.48, 5240 MHz, EUT On Side
	10481.910	1.0	279.0	Horz	PK	2.70E-09	-55.7	-27.0	-28.7	6Mbps Ch.48, 5240 MHz, EUT On Side
	11161.530	1.0	283.0	Vert	PK	2.52E-09	-56.0	-27.0	-29.0	6Mbps Ch.116, 5580 MHz, EUT On Side
	11002.090	1.0	322.0	Horz	PK	2.45E-09	-56.1	-27.0	-29.1	6Mbps Ch.100, 5500 MHz, EUT On Side
	11400.660	1.0	285.0	Vert	PK	2.36E-09	-56.3	-27.0	-29.3	6Mbps Ch.140, 5700 MHz, EUT On Side

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

On, Tx Ch.140 5700MHz (The radio was operated with the customer's test software for the modes tested)
On, Tx Ch.116 5580MHz (The radio was operated with the customer's test software for the modes tested)
On, Tx Ch.100 5500MHz (The radio was operated with the customer's test software for the modes tested)
On, Tx Ch.64 5320MHz (The radio was operated with the customer's test software for the modes tested)
On, Tx Ch.52 5260MHz (The radio was operated with the customer's test software for the modes tested)
On, Tx Ch.48 5240MHz (The radio was operated with the customer's test software for the modes tested)
On, Tx Ch.36 5180MHz (The radio was operated with the customer's test software for the modes tested)

POWER SETTINGS INVESTIGATED

110VAC/60Hz

CONFIGURATIONS INVESTIGATED

INSD0001 - 1

SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Receiver	Rohde & Schwarz	ESCI	ARH	1/24/2013	12 mo
High Pass Filter	TTE	H97-100K-50-720B	HHD	2/1/2012	24 mo
Attenuator	Fairview Microwave	SA6B10W-20	RKA	10/24/2013	12 mo
LISN	Solar	9252-50-R-24-BNC	LIP	4/8/2013	12 mo
EV07 Cables	N/A	Conducted Cables	EVG	4/25/2013	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.

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.

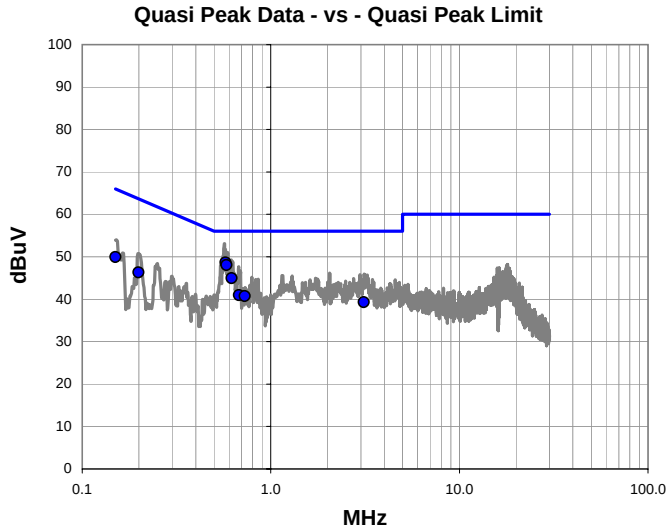
Power Setting by Band:
5180MHz – 5240MHz, Power setting of 5000
5260MHz – 5320MHz, Power setting of 14000
5500MHz – 5700MHz, Power setting of 14000

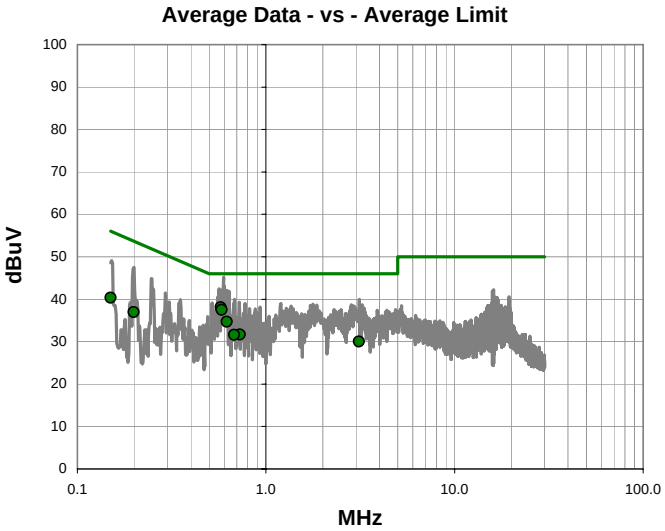
Powerline Conducted Emissions

Work Order:	INSD0001	**Date:**	11/05/13		
Project:	None	**Temperature:**	21.8 °C		
Job Site:	EV07	**Humidity:**	41.8% RH		
Serial Number:	99	**Barometric Pres.:**	1014 mbar	**Tested by:**	Brandon Hobbs
EUT:	The EGG				
Configuration:	1				
Customer:	Intel Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	On, Tx Ch.36 5180MHz (The radio was operated with the customer's test software for the modes tested)				
Deviations:	None				
Comments:	The device was running at ≥ 99% duty cycle				

Test Specifications	**Test Method**
FCC 15.207:2013	ANSI C63.10:2009

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





Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.576	28.4	20.3	48.7	56.0	-7.3
0.583	27.8	20.3	48.1	56.0	-7.9
0.619	24.7	20.3	45.0	56.0	-11.0
0.678	20.7	20.3	41.0	56.0	-15.0
0.727	20.4	20.3	40.7	56.0	-15.3
0.150	29.5	20.4	49.9	66.0	-16.1
3.108	18.8	20.5	39.3	56.0	-16.7
0.199	26.0	20.3	46.3	63.7	-17.3

Average Data - vs - Average Limit

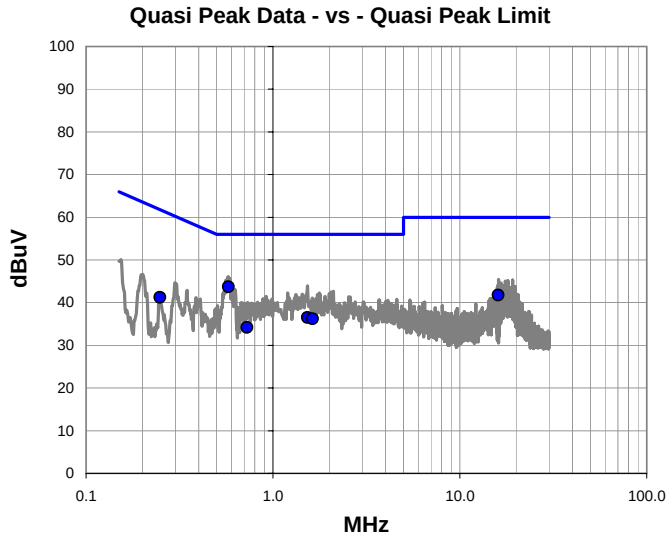
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.576	17.8	20.3	38.1	46.0	-7.9
0.583	17.2	20.3	37.5	46.0	-8.5
0.619	14.4	20.3	34.7	46.0	-11.3
0.727	11.4	20.3	31.7	46.0	-14.3
0.678	11.3	20.3	31.6	46.0	-14.4
0.150	19.9	20.4	40.3	56.0	-15.7
3.108	9.5	20.5	30.0	46.0	-16.0
0.199	16.6	20.3	36.9	53.7	-16.7

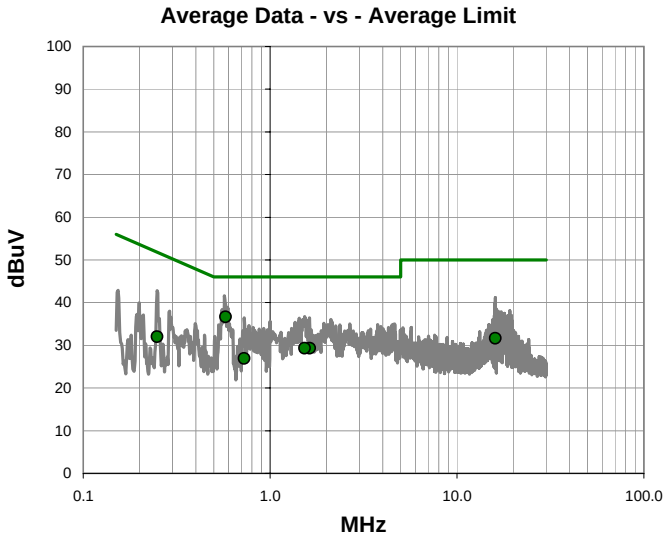
Powerline Conducted Emissions

Work Order:	INSD0001	**Date:**	11/05/13		
Project:	None	**Temperature:**	21.8 °C		
Job Site:	EV07	**Humidity:**	41.8% RH		
Serial Number:	99	**Barometric Pres.:**	1014 mbar	**Tested by:**	Brandon Hobbs
EUT:	The EGG				
Configuration:	1				
Customer:	Intel Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	On, Tx Ch.36 5180MHz (The radio was operated with the customer's test software for the modes tested)				
Deviations:	None				
Comments:	The device was running at ≥ 99% duty cycle				

Test Specifications	Test Method
FCC 15.207:2013	ANSI C63.10:2009

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





Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.578	23.4	20.3	43.7	56.0	-12.3
16.040	20.5	21.2	41.7	60.0	-18.3
1.532	16.1	20.4	36.5	56.0	-19.5
1.628	15.8	20.4	36.2	56.0	-19.8
0.249	20.9	20.3	41.2	61.8	-20.6
0.728	13.9	20.3	34.2	56.0	-21.8

Average Data - vs - Average Limit

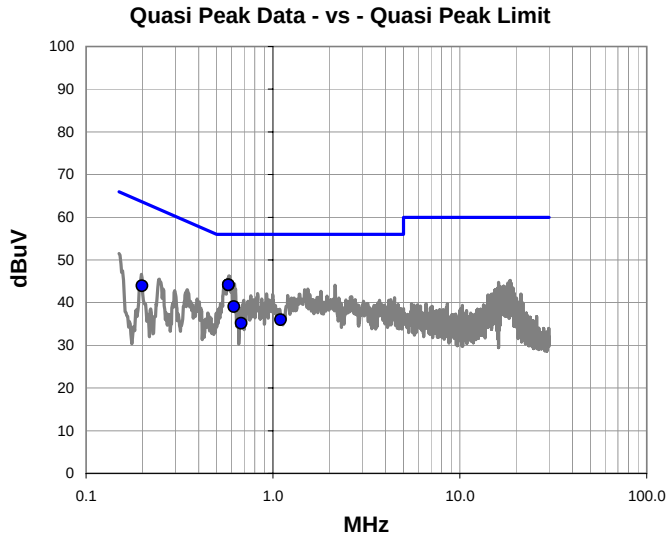
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.578	16.4	20.3	36.7	46.0	-9.3
1.628	8.9	20.4	29.3	46.0	-16.7
1.532	8.9	20.4	29.3	46.0	-16.7
16.040	10.4	21.2	31.6	50.0	-18.4
0.728	6.6	20.3	26.9	46.0	-19.1
0.249	11.7	20.3	32.0	51.8	-19.8

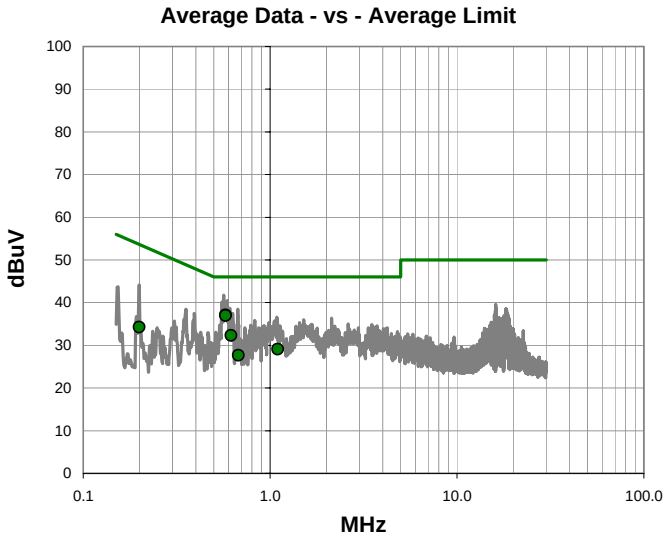
Powerline Conducted Emissions

Work Order:	INSD0001	**Date:**	11/05/13		
Project:	None	**Temperature:**	21.8 °C		
Job Site:	EV07	**Humidity:**	41.8% RH		
Serial Number:	99	**Barometric Pres.:**	1014 mbar	**Tested by:**	Brandon Hobbs
EUT:	The EGG				
Configuration:	1				
Customer:	Intel Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	On, Tx Ch.48 5240MHz (The radio was operated with the customer's test software for the modes tested)				
Deviations:	None				
Comments:	The device was running at ≥ 99% duty cycle				

Test Specifications	Test Method
FCC 15.207:2013	ANSI C63.10:2009

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





Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.577	23.9	20.3	44.2	56.0	-11.8
0.577	23.9	20.3	44.2	56.0	-11.8
0.617	18.8	20.3	39.1	56.0	-16.9
0.199	23.6	20.3	43.9	63.7	-19.7
1.100	15.6	20.3	35.9	56.0	-20.1
0.678	14.9	20.3	35.2	56.0	-20.8

Average Data - vs - Average Limit

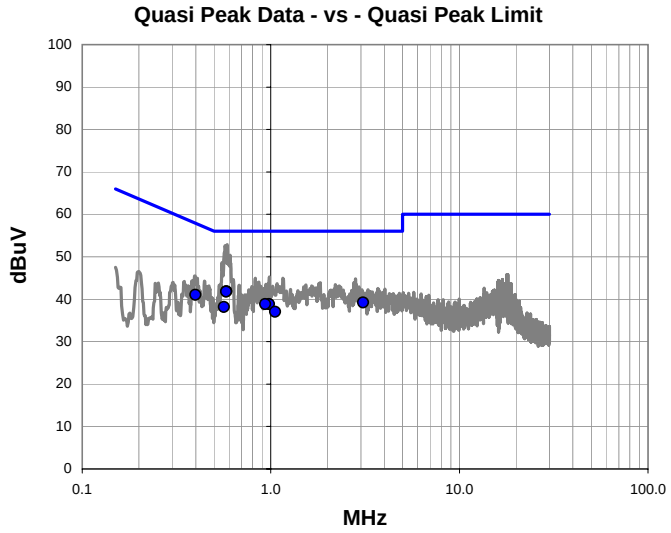
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.577	16.8	20.3	37.1	46.0	-8.9
0.577	16.7	20.3	37.0	46.0	-9.0
0.617	12.0	20.3	32.3	46.0	-13.7
1.100	8.7	20.3	29.0	46.0	-17.0
0.678	7.4	20.3	27.7	46.0	-18.3
0.199	13.9	20.3	34.2	53.7	-19.4

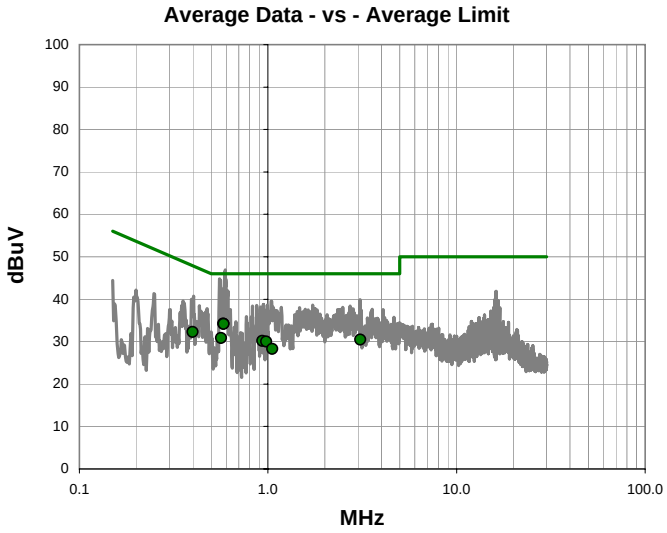
Powerline Conducted Emissions

Work Order:	INSD0001	**Date:**	11/05/13		
Project:	None	**Temperature:**	21.8 °C		
Job Site:	EV07	**Humidity:**	41.8% RH		
Serial Number:	99	**Barometric Pres.:**	1014 mbar	**Tested by:**	Brandon Hobbs
EUT:	The EGG				
Configuration:	1				
Customer:	Intel Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	On, Tx Ch.48 5240MHz (The radio was operated with the customer's test software for the modes tested)				
Deviations:	None				
Comments:	The device was running at ≥ 99% duty cycle				

Test Specifications	**Test Method**
FCC 15.207:2013	ANSI C63.10:2009

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





Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.582	21.6	20.3	41.9	56.0	-14.1
0.581	21.5	20.3	41.8	56.0	-14.2
3.088	18.7	20.5	39.2	56.0	-16.8
0.399	20.8	20.3	41.1	57.9	-16.8
0.979	18.5	20.3	38.8	56.0	-17.2
0.934	18.5	20.3	38.8	56.0	-17.2
0.565	17.9	20.3	38.2	56.0	-17.8
1.056	16.7	20.3	37.0	56.0	-19.0

Average Data - vs - Average Limit

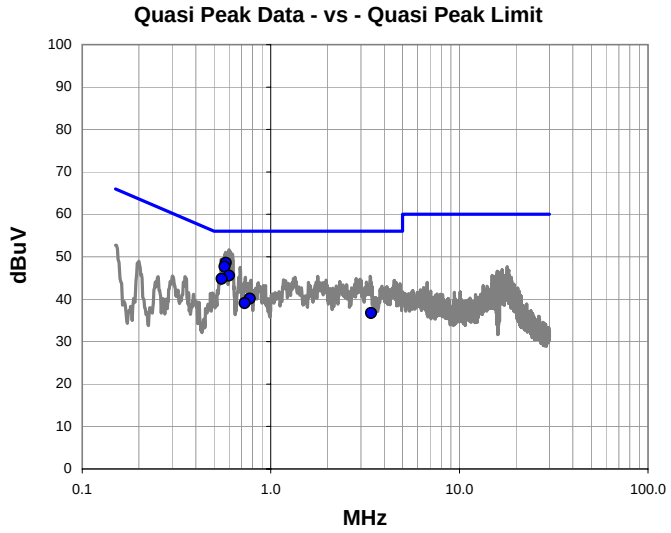
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.581	14.0	20.3	34.3	46.0	-11.7
0.582	13.9	20.3	34.2	46.0	-11.8
0.565	10.6	20.3	30.9	46.0	-15.1
3.088	10.0	20.5	30.5	46.0	-15.5
0.399	12.0	20.3	32.3	47.9	-15.6
0.934	9.8	20.3	30.1	46.0	-15.9
0.979	9.7	20.3	30.0	46.0	-16.0
1.056	7.9	20.3	28.2	46.0	-17.8

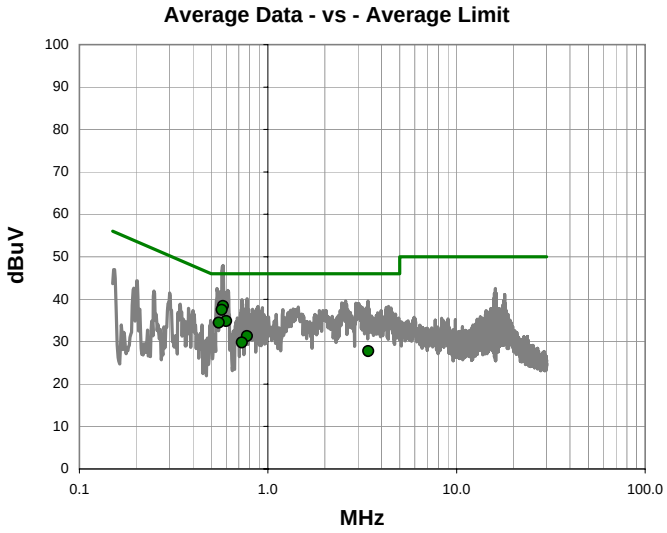
Powerline Conducted Emissions

Work Order:	INSD0001	**Date:**	11/05/13		
Project:	None	**Temperature:**	21.8 °C		
Job Site:	EV07	**Humidity:**	41.8% RH		
Serial Number:	99	**Barometric Pres.:**	1014 mbar	**Tested by:**	Brandon Hobbs
EUT:	The EGG				
Configuration:	1				
Customer:	Intel Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	On, Tx Ch.52 5260MHz (The radio was operated with the customer's test software for the modes tested)				
Deviations:	None				
Comments:	The device was running at ≥ 99% duty cycle				

Test Specifications	**Test Method**
FCC 15.207:2013	ANSI C63.10:2009

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





Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.578	28.3	20.3	48.6	56.0	-7.4
0.570	27.4	20.3	47.7	56.0	-8.3
0.600	25.3	20.3	45.6	56.0	-10.4
0.550	24.5	20.3	44.8	56.0	-11.2
0.776	19.8	20.3	40.1	56.0	-15.9
0.728	18.8	20.3	39.1	56.0	-16.9
3.404	16.2	20.5	36.7	56.0	-19.3

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.578	18.1	20.3	38.4	46.0	-7.6
0.570	17.2	20.3	37.5	46.0	-8.5
0.600	14.6	20.3	34.9	46.0	-11.1
0.550	14.2	20.3	34.5	46.0	-11.5
0.776	11.0	20.3	31.3	46.0	-14.7
0.728	9.5	20.3	29.8	46.0	-16.2
3.404	7.2	20.5	27.7	46.0	-18.3

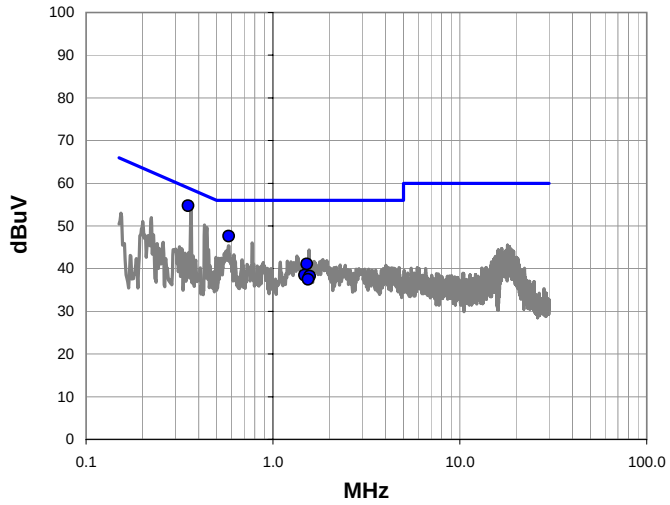
Powerline Conducted Emissions

Work Order:	INSD0001	**Date:**	11/05/13		
Project:	None	**Temperature:**	21.8 °C		
Job Site:	EV07	**Humidity:**	41.8% RH		
Serial Number:	99	**Barometric Pres.:**	1014 mbar	**Tested by:**	Brandon Hobbs
EUT:	The EGG				
Configuration:	1				
Customer:	Intel Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	On, Tx Ch.52 5260MHz (The radio was operated with the customer's test software for the modes tested)				
Deviations:	None				
Comments:	The device was running at ≥ 99% duty cycle				

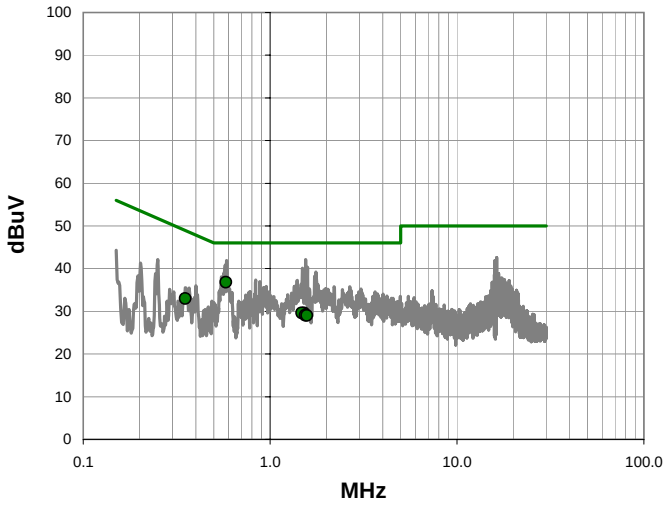
Test Specifications	**Test Method**
FCC 15.207:2013	ANSI C63.10:2009

Run #	30	**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)
0.352	34.5	20.3	54.8	58.9	-4.2
0.581	27.3	20.3	47.6	56.0	-8.4
1.516	20.7	20.4	41.1	56.0	-14.9
1.476	18.1	20.4	38.5	56.0	-17.5
1.576	17.8	20.4	38.2	56.0	-17.8
1.540	17.1	20.4	37.5	56.0	-18.5

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.581	16.5	20.3	36.8	46.0	-9.2
0.352	12.7	20.3	33.0	48.9	-16.0
1.516	9.2	20.4	29.6	46.0	-16.4
1.476	9.2	20.4	29.6	46.0	-16.4
1.540	8.7	20.4	29.1	46.0	-16.9
1.576	8.6	20.4	29.0	46.0	-17.0

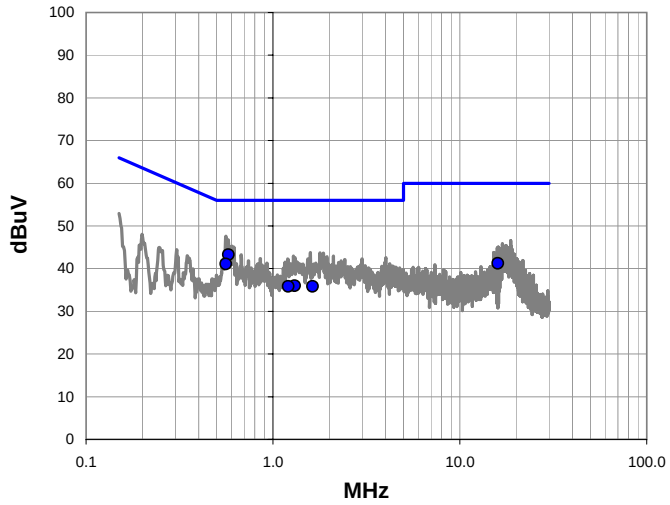
Powerline Conducted Emissions

Work Order:	INSD0001	**Date:**	11/05/13		
Project:	None	**Temperature:**	21.8 °C		
Job Site:	EV07	**Humidity:**	41.8% RH		
Serial Number:	99	**Barometric Pres.:**	1014 mbar	**Tested by:**	Brandon Hobbs
EUT:	The EGG				
Configuration:	1				
Customer:	Intel Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	On, Tx Ch.64 5320MHz (The radio was operated with the customer's test software for the modes tested)				
Deviations:	None				
Comments:	The device was running at ≥ 99% duty cycle				

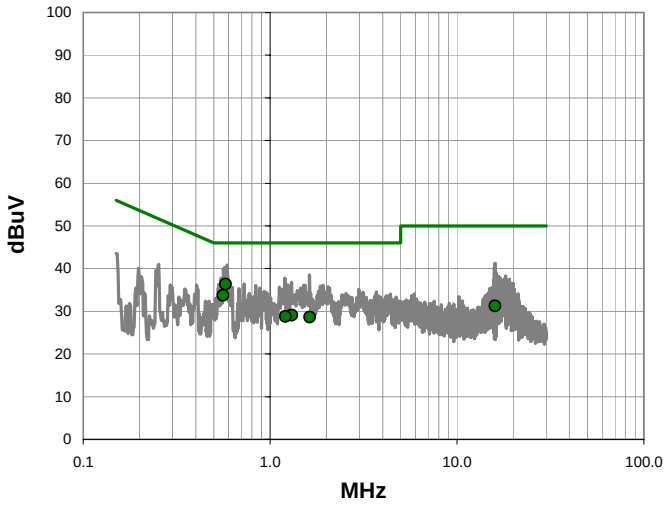
Test Specifications	**Test Method**
FCC 15.207:2013	ANSI C63.10:2009

Run #	22	**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)
0.577	23.0	20.3	43.3	56.0	-12.7
0.560	20.8	20.3	41.1	56.0	-14.9
15.990	20.0	21.2	41.2	60.0	-18.8
1.308	15.6	20.4	36.0	56.0	-20.0
1.208	15.5	20.4	35.9	56.0	-20.1
1.628	15.4	20.4	35.8	56.0	-20.2

Average Data - vs - Average Limit

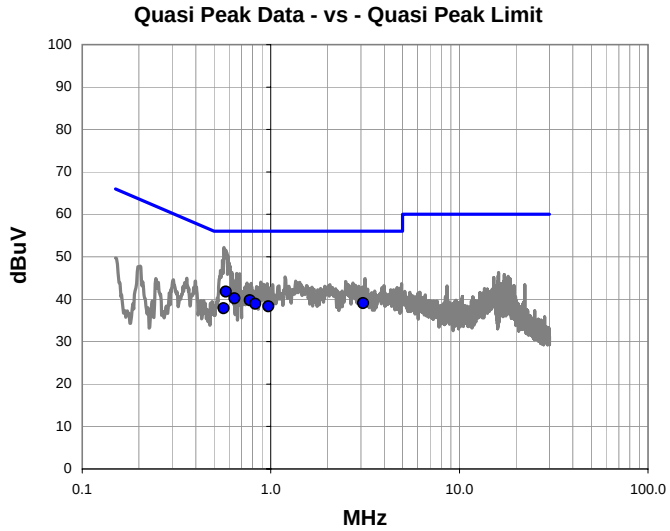
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.577	16.1	20.3	36.4	46.0	-9.6
0.560	13.5	20.3	33.8	46.0	-12.2
1.308	8.7	20.4	29.1	46.0	-16.9
1.208	8.4	20.4	28.8	46.0	-17.2
1.628	8.2	20.4	28.6	46.0	-17.4
15.990	10.0	21.2	31.2	50.0	-18.8

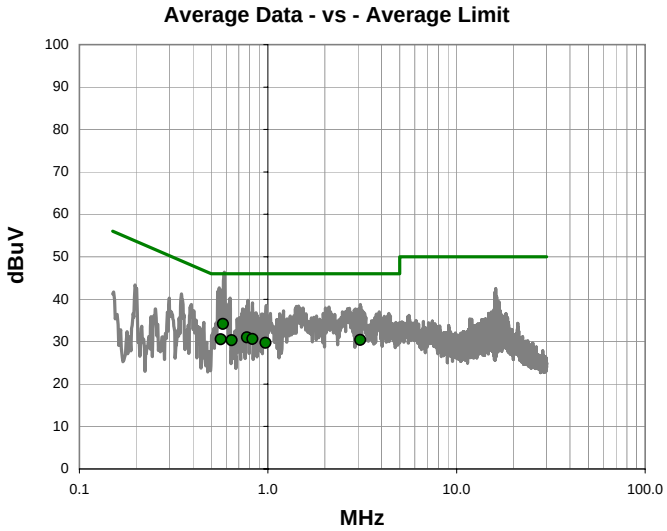
Powerline Conducted Emissions

Work Order:	INSD0001	**Date:**	11/05/13		
Project:	None	**Temperature:**	21.8 °C		
Job Site:	EV07	**Humidity:**	41.8% RH		
Serial Number:	99	**Barometric Pres.:**	1014 mbar	**Tested by:**	Brandon Hobbs
EUT:	The EGG				
Configuration:	1				
Customer:	Intel Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	On, Tx Ch.64 5320MHz (The radio was operated with the customer's test software for the modes tested)				
Deviations:	None				
Comments:	The device was running at ≥ 99% duty cycle				

Test Specifications	**Test Method**
FCC 15.207:2013	ANSI C63.10:2009

Run #	23	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass





Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.579	21.5	20.3	41.8	56.0	-14.2
0.641	19.9	20.3	40.2	56.0	-15.8
0.776	19.4	20.3	39.7	56.0	-16.3
3.088	18.6	20.5	39.1	56.0	-16.9
0.827	18.6	20.3	38.9	56.0	-17.1
0.970	18.0	20.3	38.3	56.0	-17.7
0.563	17.6	20.3	37.9	56.0	-18.1

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.579	13.9	20.3	34.2	46.0	-11.8
0.776	10.7	20.3	31.0	46.0	-15.0
0.827	10.3	20.3	30.6	46.0	-15.4
0.563	10.3	20.3	30.6	46.0	-15.4
3.088	9.9	20.5	30.4	46.0	-15.6
0.641	10.0	20.3	30.3	46.0	-15.7
0.970	9.4	20.3	29.7	46.0	-16.3

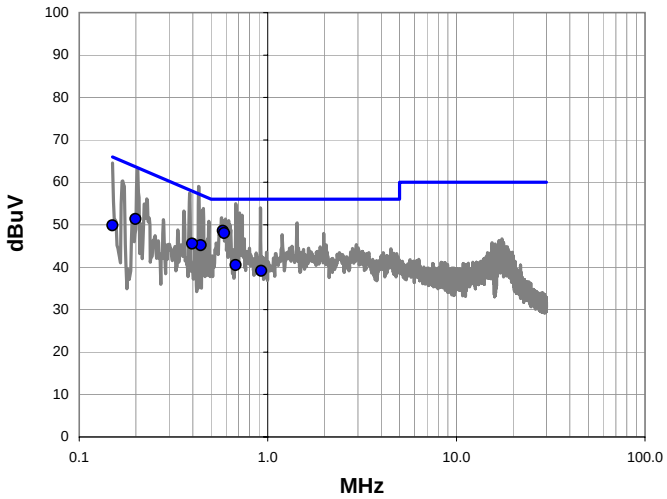
Powerline Conducted Emissions

Work Order:	INSD0001	**Date:**	11/05/13		
Project:	None	**Temperature:**	21.8 °C		
Job Site:	EV07	**Humidity:**	41.8% RH		
Serial Number:	99	**Barometric Pres.:**	1014 mbar	**Tested by:**	Brandon Hobbs
EUT:	The EGG				
Configuration:	1				
Customer:	Intel Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	On, Tx Ch.100 5500MHz (The radio was operated with the customer's test software for the modes tested)				
Deviations:	None				
Comments:	The device was running at ≥ 99% duty cycle				

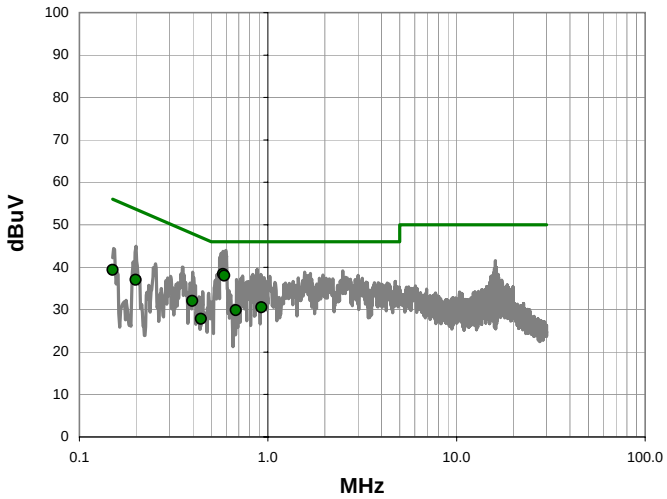
Test Specifications	**Test Method**
FCC 15.207:2013	ANSI C63.10:2009

Run #	24	**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)
0.578	28.3	20.3	48.6	56.0	-7.4
0.587	27.8	20.3	48.1	56.0	-7.9
0.441	24.9	20.3	45.2	57.0	-11.9
0.199	31.0	20.3	51.3	63.7	-12.3
0.397	25.3	20.3	45.6	57.9	-12.4
0.677	20.2	20.3	40.5	56.0	-15.5
0.150	29.4	20.4	49.8	66.0	-16.2
0.925	18.8	20.3	39.1	56.0	-16.9

Average Data - vs - Average Limit

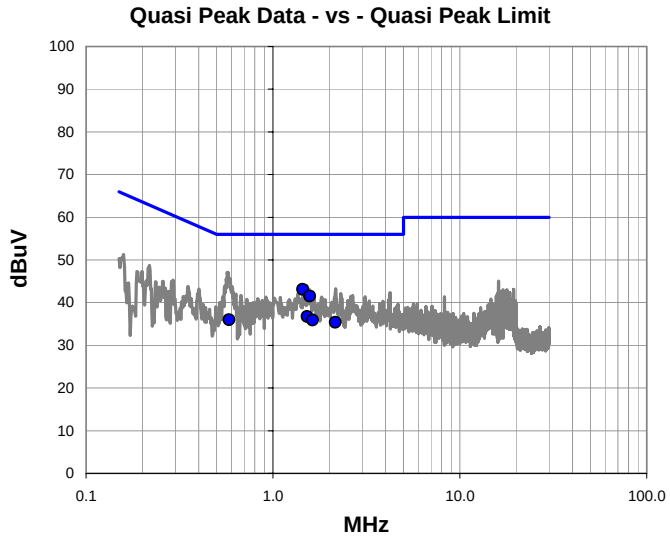
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.578	18.1	20.3	38.4	46.0	-7.6
0.587	17.7	20.3	38.0	46.0	-8.0
0.925	10.2	20.3	30.5	46.0	-15.5
0.397	11.8	20.3	32.1	47.9	-15.9
0.677	9.6	20.3	29.9	46.0	-16.1
0.199	16.7	20.3	37.0	53.7	-16.6
0.150	18.9	20.4	39.3	56.0	-16.7
0.441	7.6	20.3	27.9	47.0	-19.2

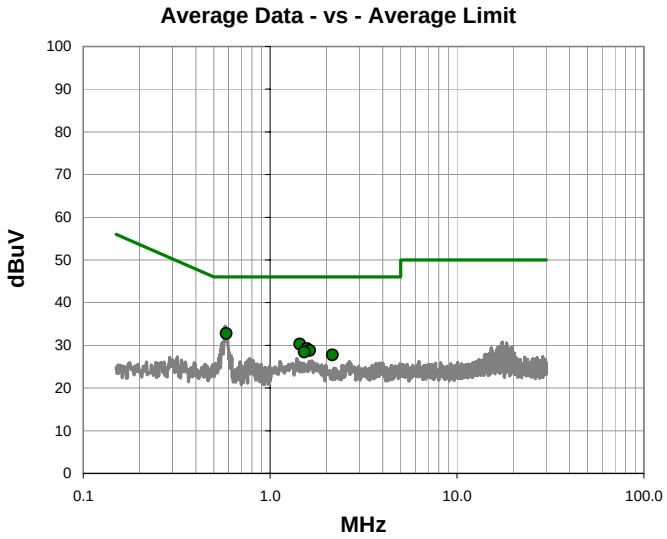
Powerline Conducted Emissions

Work Order:	INSD0001	**Date:**	11/05/13		
Project:	None	**Temperature:**	21.8 °C		
Job Site:	EV07	**Humidity:**	41.8% RH		
Serial Number:	99	**Barometric Pres.:**	1014 mbar	**Tested by:**	Brandon Hobbs
EUT:	The EGG				
Configuration:	1				
Customer:	Intel Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	On, Tx Ch.100 5500MHz (The radio was operated with the customer's test software for the modes tested)				
Deviations:	None				
Comments:	The device was running at ≥ 99% duty cycle				

Test Specifications	**Test Method**
FCC 15.207:2013	ANSI C63.10:2009

Run #	25	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass





Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
1.444	22.7	20.4	43.1	56.0	-12.9
1.572	21.1	20.4	41.5	56.0	-14.5
1.524	16.3	20.4	36.7	56.0	-19.3
0.583	15.7	20.3	36.0	56.0	-20.0
1.628	15.5	20.4	35.9	56.0	-20.1
2.160	14.9	20.4	35.3	56.0	-20.7

Average Data - vs - Average Limit

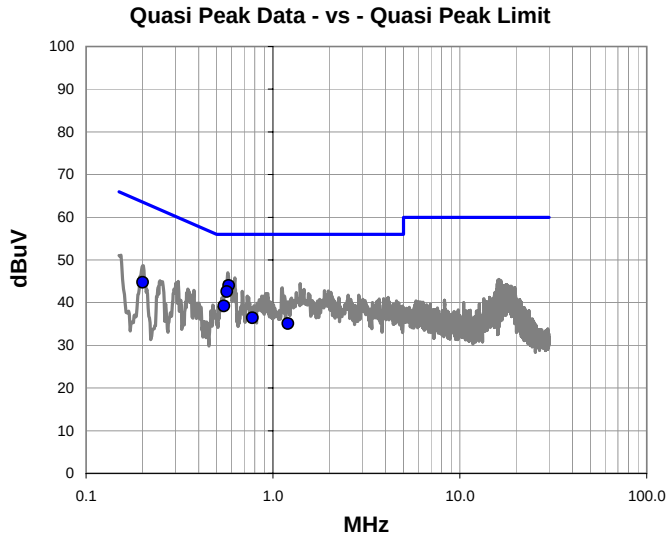
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.583	12.5	20.3	32.8	46.0	-13.2
1.444	9.9	20.4	30.3	46.0	-15.7
1.572	8.8	20.4	29.2	46.0	-16.8
1.628	8.4	20.4	28.8	46.0	-17.2
1.524	8.0	20.4	28.4	46.0	-17.6
2.160	7.3	20.4	27.7	46.0	-18.3

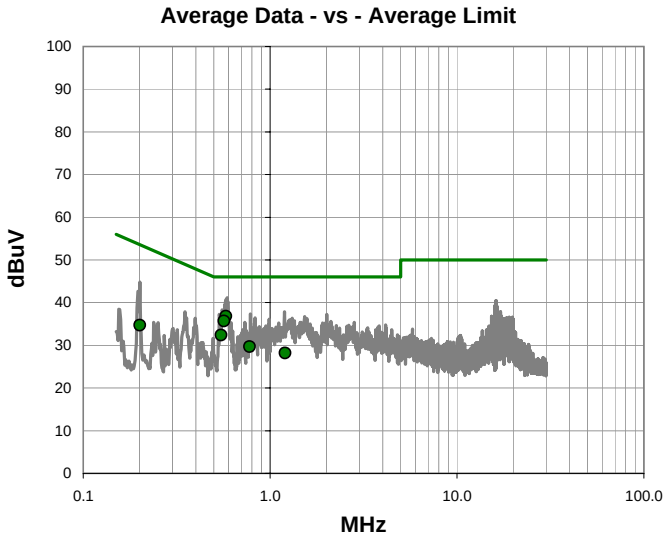
Powerline Conducted Emissions

Work Order:	INSD0001	**Date:**	11/05/13		
Project:	None	**Temperature:**	21.8 °C		
Job Site:	EV07	**Humidity:**	41.8% RH		
Serial Number:	99	**Barometric Pres.:**	1014 mbar	**Tested by:**	Brandon Hobbs
EUT:	The EGG				
Configuration:	1				
Customer:	Intel Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	On, Tx Ch.116 5580MHz (The radio was operated with the customer's test software for the modes tested)				
Deviations:	None				
Comments:	The device was running at ≥ 99% duty cycle				

Test Specifications	**Test Method**
FCC 15.207:2013	ANSI C63.10:2009

Run #	26	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass





Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.581	23.7	20.3	44.0	56.0	-12.0
0.567	22.3	20.3	42.6	56.0	-13.4
0.546	18.9	20.3	39.2	56.0	-16.8
0.201	24.4	20.3	44.7	63.6	-18.8
0.778	16.1	20.3	36.4	56.0	-19.6
1.204	14.7	20.4	35.1	56.0	-20.9

Average Data - vs - Average Limit

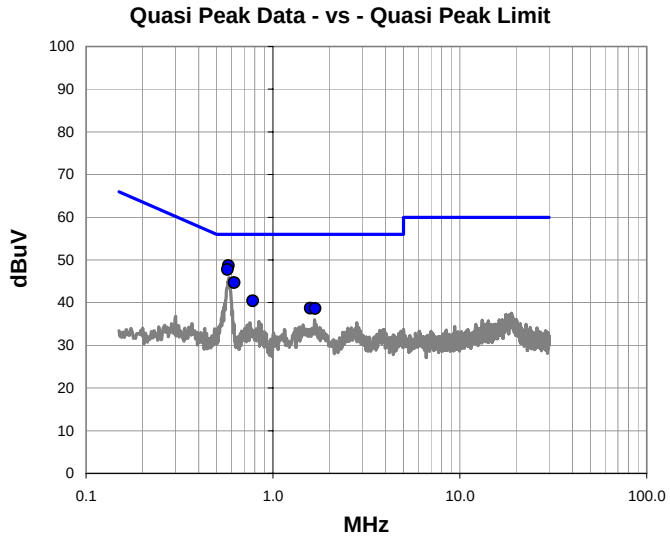
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.581	16.5	20.3	36.8	46.0	-9.2
0.567	15.4	20.3	35.7	46.0	-10.3
0.546	12.1	20.3	32.4	46.0	-13.6
0.778	9.4	20.3	29.7	46.0	-16.3
1.204	7.8	20.4	28.2	46.0	-17.8
0.201	14.4	20.3	34.7	53.6	-18.8

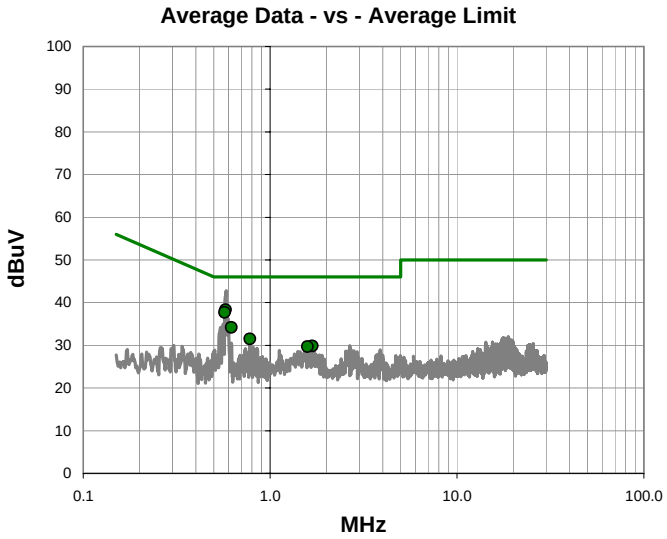
Powerline Conducted Emissions

Work Order:	INSD0001	**Date:**	11/05/13		
Project:	None	**Temperature:**	21.8 °C		
Job Site:	EV07	**Humidity:**	41.8% RH		
Serial Number:	99	**Barometric Pres.:**	1014 mbar	**Tested by:**	Brandon Hobbs
EUT:	The EGG				
Configuration:	1				
Customer:	Intel Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	On, Tx Ch.116 5580MHz (The radio was operated with the customer's test software for the modes tested)				
Deviations:	None				
Comments:	The device was running at ≥ 99% duty cycle				

Test Specifications	**Test Method**
FCC 15.207:2013	ANSI C63.10:2009

Run #	27	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass





Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.578	28.4	20.3	48.7	56.0	-7.3
0.572	27.5	20.3	47.8	56.0	-8.2
0.621	24.4	20.3	44.7	56.0	-11.3
0.779	20.1	20.3	40.4	56.0	-15.6
1.588	18.3	20.4	38.7	56.0	-17.3
1.680	18.2	20.4	38.6	56.0	-17.4

Average Data - vs - Average Limit

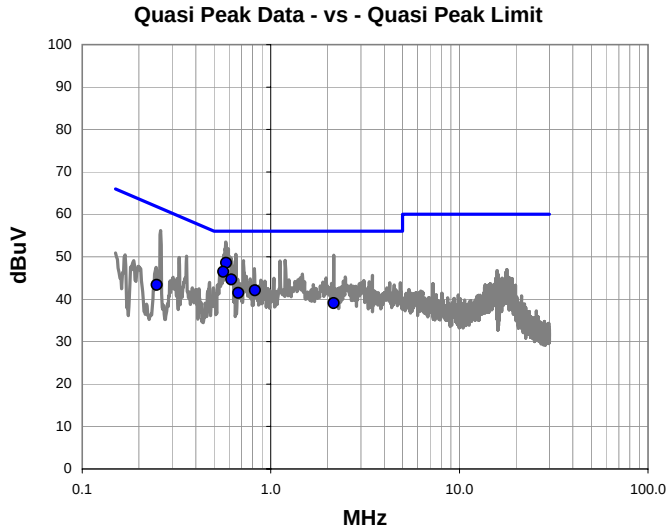
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.578	18.0	20.3	38.3	46.0	-7.7
0.572	17.4	20.3	37.7	46.0	-8.3
0.621	13.9	20.3	34.2	46.0	-11.8
0.779	11.2	20.3	31.5	46.0	-14.5
1.680	9.4	20.4	29.8	46.0	-16.2
1.588	9.3	20.4	29.7	46.0	-16.3

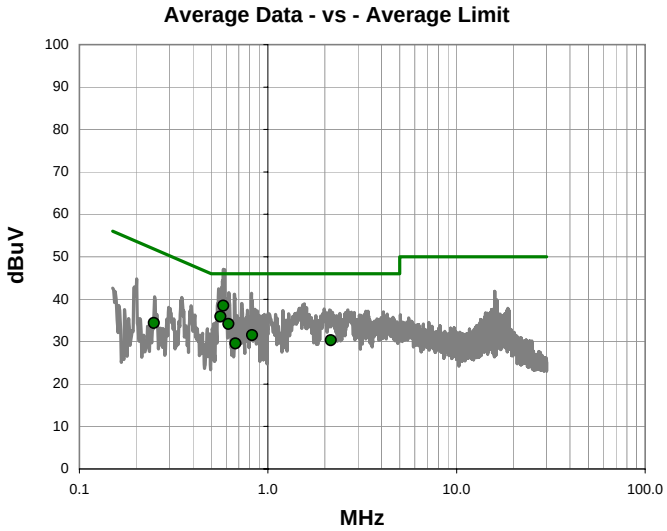
Powerline Conducted Emissions

Work Order:	INSD0001	**Date:**	11/05/13		
Project:	None	**Temperature:**	21.8 °C		
Job Site:	EV07	**Humidity:**	41.8% RH		
Serial Number:	99	**Barometric Pres.:**	1014 mbar	**Tested by:**	Brandon Hobbs
EUT:	The EGG				
Configuration:	1				
Customer:	Intel Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	On, Tx Ch.140 5700MHz (The radio was operated with the customer's test software for the modes tested)				
Deviations:	None				
Comments:	The device was running at ≥ 99% duty cycle				

Test Specifications	**Test Method**
FCC 15.207:2013	ANSI C63.10:2009

Run #	28	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass





Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.580	28.3	20.3	48.6	56.0	-7.4
0.560	26.2	20.3	46.5	56.0	-9.5
0.617	24.4	20.3	44.7	56.0	-11.3
0.826	21.8	20.3	42.1	56.0	-13.9
0.673	21.2	20.3	41.5	56.0	-14.5
2.156	18.6	20.4	39.0	56.0	-17.0
0.249	23.1	20.3	43.4	61.8	-18.4

Average Data - vs - Average Limit

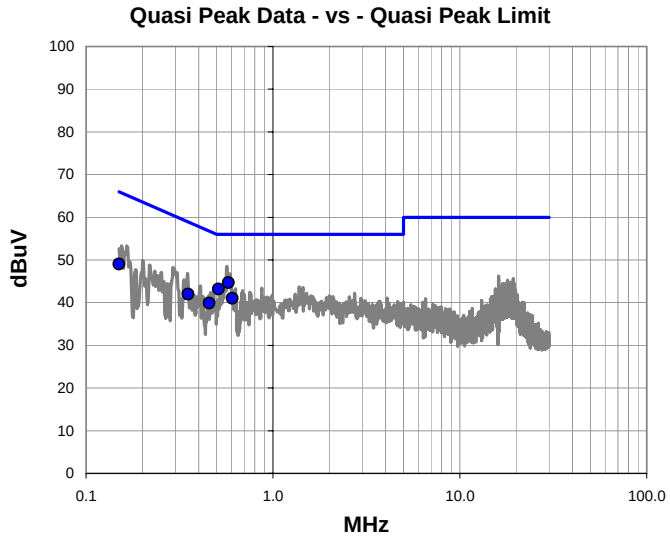
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.580	18.2	20.3	38.5	46.0	-7.5
0.560	15.6	20.3	35.9	46.0	-10.1
0.617	13.9	20.3	34.2	46.0	-11.8
0.826	11.2	20.3	31.5	46.0	-14.5
2.156	9.9	20.4	30.3	46.0	-15.7
0.673	9.3	20.3	29.6	46.0	-16.4
0.249	14.1	20.3	34.4	51.8	-17.4

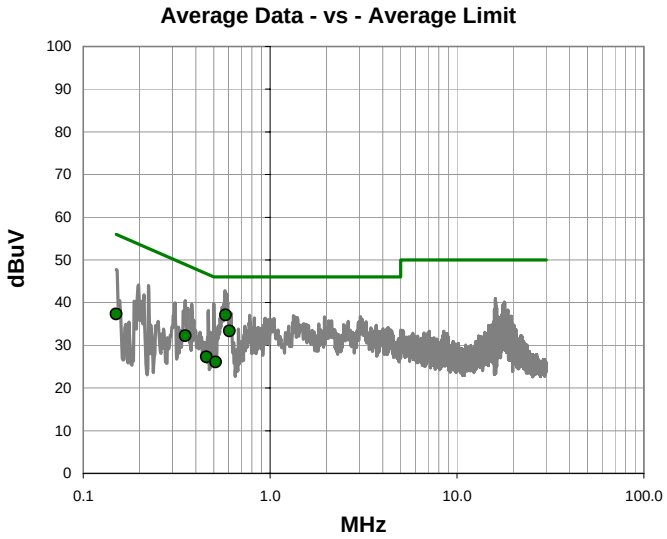
Powerline Conducted Emissions

Work Order:	INSD0001	**Date:**	11/05/13		
Project:	None	**Temperature:**	21.8 °C		
Job Site:	EV07	**Humidity:**	41.8% RH		
Serial Number:	99	**Barometric Pres.:**	1014 mbar	**Tested by:**	Brandon Hobbs
EUT:	The EGG				
Configuration:	1				
Customer:	Intel Corporation				
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	On, Tx Ch.140 5700MHz (The radio was operated with the customer's test software for the modes tested)				
Deviations:	None				
Comments:	The device was running at ≥ 99% duty cycle				

Test Specifications	**Test Method**
FCC 15.207:2013	ANSI C63.10:2009

Run #	29	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass





Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.577	24.4	20.3	44.7	56.0	-11.3
0.512	22.9	20.3	43.2	56.0	-12.8
0.606	20.7	20.3	41.0	56.0	-15.0
0.456	19.6	20.3	39.9	56.8	-16.9
0.352	21.7	20.3	42.0	58.9	-17.0
0.150	28.6	20.4	49.0	66.0	-17.0

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.577	16.8	20.3	37.1	46.0	-8.9
0.606	13.1	20.3	33.4	46.0	-12.6
0.352	12.0	20.3	32.3	48.9	-16.7
0.150	16.9	20.4	37.3	56.0	-18.7
0.456	7.0	20.3	27.3	46.8	-19.5
0.512	5.8	20.3	26.1	46.0	-19.9