

# NORTHWEST EMC

## Awarepoint Corporation

BLEE

FCC 15.247:2016

802.11bg SISO Radio

Report # AWAR0022.2



NVLAP Lab Code: 200676-0

*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. This Report may only be duplicated in its entirety*

# CERTIFICATE OF TEST

Last Date of Test: August 9, 2016  
Awarepoint Corporation  
Model: BLEE

## Radio Equipment Testing

### Standards

Specification	Method
FCC 15.247:2016	ANSI C63.10:2013, KDB 558074

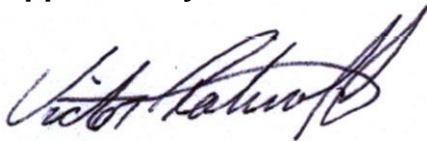
### Results

Method Clause	Test Description	Applied	Results	Comments
6.2	Powerline Conducted Emissions	No	N/A	Not required for a battery powered EUT.
6.5	Spurious Radiated Emissions	Yes	Pass	
11.6	Duty Cycle	Yes	Pass	
11.8.2	Occupied Bandwidth	Yes	Pass	
11.9.2.2.4	Output Power	Yes	Pass	
11.10.2	Power Spectral Density	Yes	Pass	
11.11	Band Edge Compliance	Yes	Pass	
11.11	Spurious Conducted Emissions	Yes	Pass	

### Deviations from Test Standards

None

### Approved By:



Victor Ratinoff, Operations Manager

*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. 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. This report reflects only those tests from the referenced standards shown in the certificate of test. It does not include inspection or verification of labels, identification, marking or user information.*

# REVISION HISTORY

Revision Number		Description	Date	Page Number
00		None		

# ACCREDITATIONS AND AUTHORIZATIONS

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## United States

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**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 17065 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

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## Canada

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**ISED** - Recognized by Innovation, Science and Economic Development Canada as a Certification Body (CB). Certification chambers and Open Area Test Sites are filed with ISED.

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## European Union

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**European Commission** – Validated by the European Commission as a Notified Body under the R&TTE Directive.

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## Australia/New Zealand

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

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## Korea

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

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## Japan

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

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## Taiwan

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**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.

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## Singapore

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

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## Israel

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

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## Hong Kong

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

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## Vietnam

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

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## SCOPE

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For details on the Scopes of our Accreditations, please visit:

<http://www.nwemc.com/accreditations/>  
<http://gsi.nist.gov/global/docs/cabs/designations.html>

# MEASUREMENT UNCERTAINTY

## Measurement Uncertainty

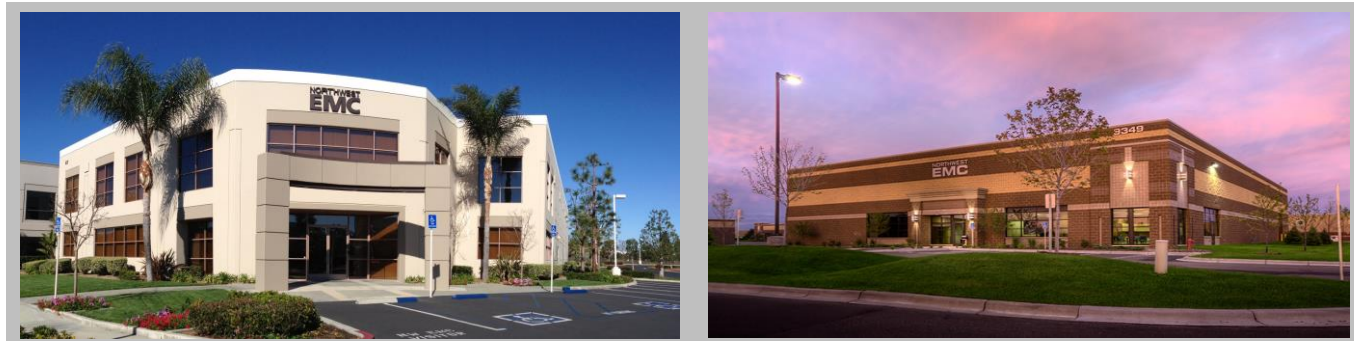
When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. Measurement 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 on each data sheet. 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 16-4-2 as applicable), and are available upon request.

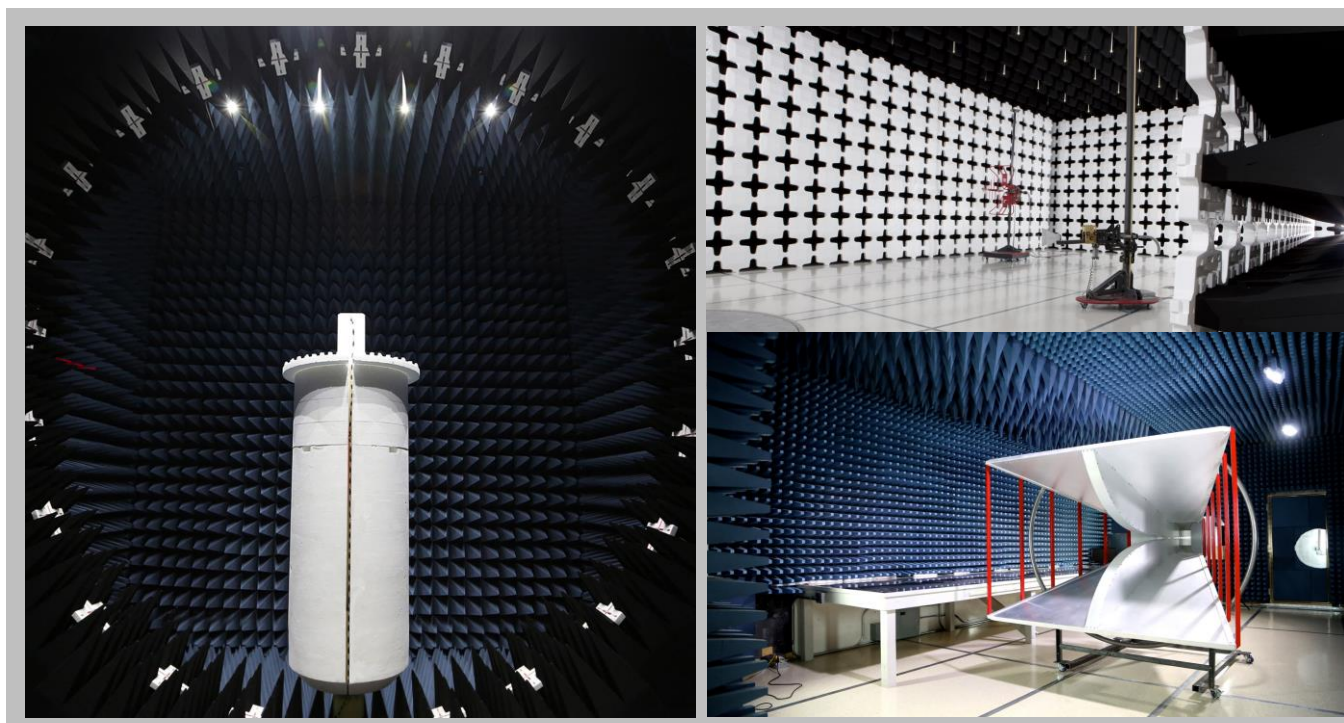
The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

<b>Test</b>	<b>+ MU</b>	<b>- MU</b>
Frequency Accuracy (Hz)	0.0007%	-0.0007%
Amplitude Accuracy (dB)	1.2 dB	-1.2 dB
Conducted Power (dB)	0.3 dB	-0.3 dB
Radiated Power via Substitution (dB)	0.7 dB	-0.7 dB
Temperature (degrees C)	0.7°C	-0.7°C
Humidity (% RH)	2.5% RH	-2.5% RH
Voltage (AC)	1.0%	-1.0%
Voltage (DC)	0.7%	-0.7%
Field Strength (dB)	5.2 dB	-5.2 dB
AC Powerline Conducted Emissions (dB)	2.4 dB	-2.4 dB

# FACILITIES

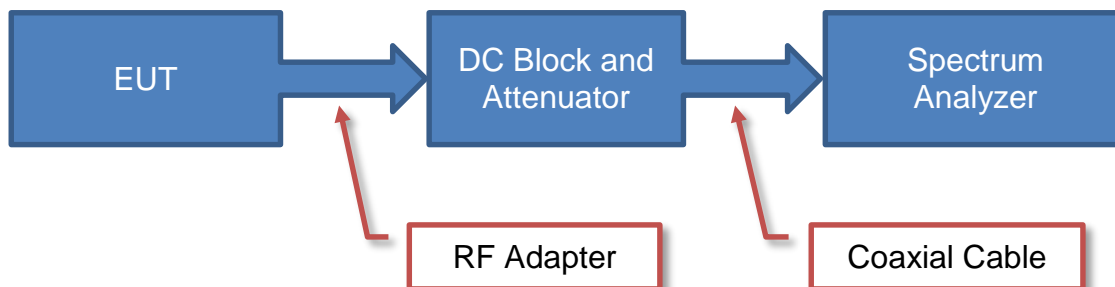


<b>California</b> Labs OC01-13 41 Tesla Irvine, CA 92618 (949) 861-8918	<b>Minnesota</b> Labs MN01-08, MN10 9349 W Broadway Ave. Brooklyn Park, MN 55445 (612)-638-5136	<b>New York</b> Labs NY01-04 4939 Jordan Rd. Elbridge, NY 13060 (315) 554-8214	<b>Oregon</b> Labs EV01-12 22975 NW Evergreen Pkwy Hillsboro, OR 97124 (503) 844-4066	<b>Texas</b> Labs TX01-09 3801 E Plano Pkwy Plano, TX 75074 (469) 304-5255	<b>Washington</b> Labs NC01-05 19201 120 <sup>th</sup> Ave NE Bothell, WA 98011 (425)984-6600
<b>NVLAP</b>					
NVLAP Lab Code: 200676-0	NVLAP Lab Code: 200881-0	NVLAP Lab Code: 200761-0	NVLAP Lab Code: 200630-0	NVLAP Lab Code:201049-0	NVLAP Lab Code: 200629-0
<b>Innovation, Science and Economic Development Canada</b>					
2834B-1, 2834B-3	2834E-1	N/A	2834D-1, 2834D-2	2834G-1	2834F-1
<b>BSMI</b>					
SL2-IN-E-1154R	SL2-IN-E-1152R	N/A	SL2-IN-E-1017	SL2-IN-E-1158R	SL2-IN-E-1153R
<b>VCCI</b>					
A-0029	A-0109	N/A	A-0108	A-0201	A-0110
<b>Recognized Phase I CAB for ACMA, BSMI, IDA, KCC/RRR, MIC, MOC, NCC, OFCA</b>					
US0158	US0175	N/A	US0017	US0191	US0157

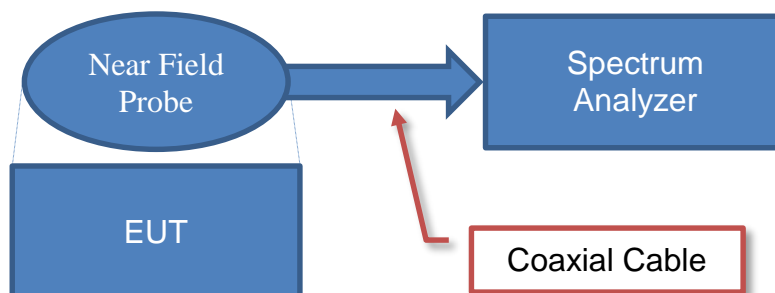


# Test Setup Block Diagrams

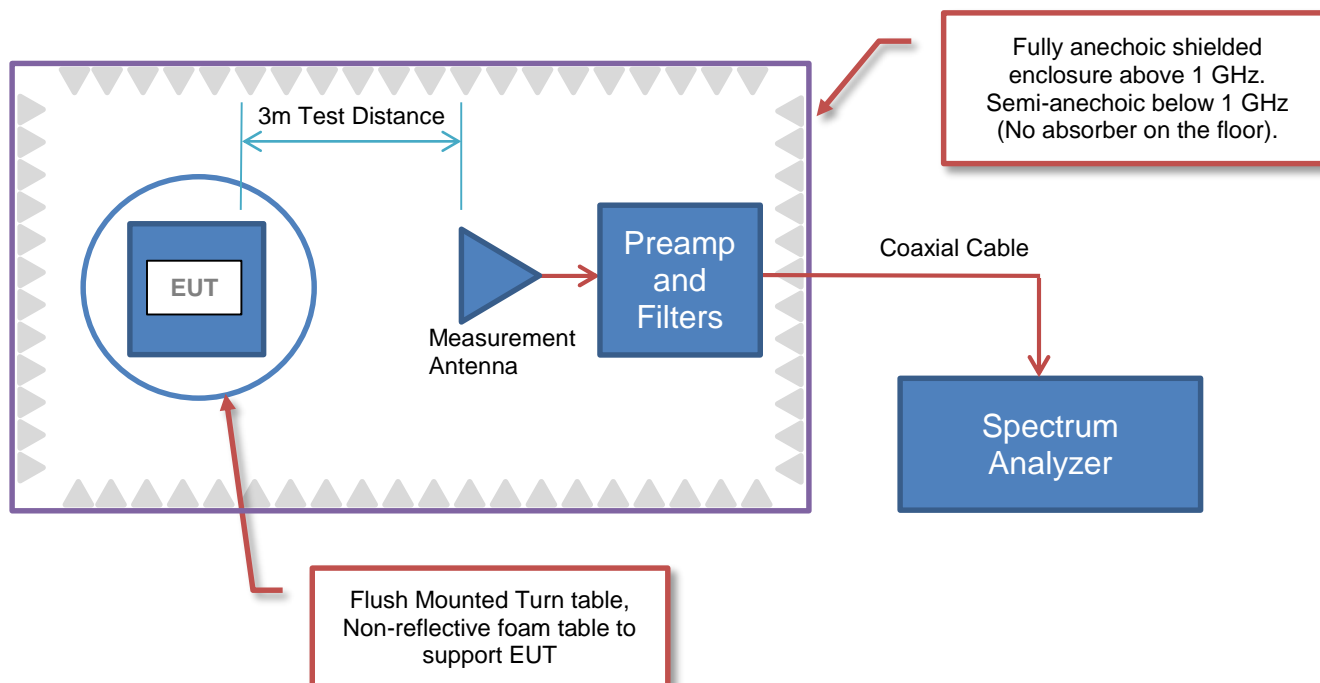
## Antenna Port Conducted Measurements



## Near Field Test Fixture Measurements



## Spurious Radiated Emissions





# PRODUCT DESCRIPTION

## Client and Equipment Under Test (EUT) Information

<b>Company Name:</b>	Awarepoint Corporation
<b>Address:</b>	600 W. Broadway Suite 250
<b>City, State, Zip:</b>	San Diego, CA 92101
<b>Test Requested By:</b>	John Taylor
<b>Model:</b>	BLEE
<b>First Date of Test:</b>	July 29, 2016
<b>Last Date of Test:</b>	August 9, 2016
<b>Receipt Date of Samples:</b>	July 29, 2016
<b>Equipment Design Stage:</b>	Production
<b>Equipment Condition:</b>	No Damage

## Information Provided by the Party Requesting the Test

<b>Functional Description of the EUT:</b>
(BLE Environmental Tag) Bluetooth Low Energy scanner (Receiver) that measures RSSI of BLE beacons and then periodically connects with a WiFi access point to transmit collected BLE scans for the purpose of location tracking or for configuration and firmware updates. Additional functionality of reporting readings from one of a variety of connected environmental sensors.
<b>Testing Objective:</b>
To demonstrate compliance of the 802.11 radio under FCC 15.247 for operation in the 2.4 GHz band.



# CONFIGURATIONS

## Configuration AWAR0022- 4

Software/Firmware Running during test	
Description	Version
RadioTool GUI	1.2.5942.19689

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
WiFi and Bluetooth Radio	Awarepoint Corporation	BLEE	None

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Laptop	Dell	VOSTRO 3550	FJRVLR1
AC/DC Power Supply	Dell	LA90PS0-00	CN-0DF266-71615-73O-0B34
WiFi Interface Board	Texas Instruments	CC3100BOOST	A8013723

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Cable	No	.75m	No	AC mains	AC/DC Power Supply
DC Cable	No	1.5m	Yes	AC/DC Power Supply	Laptop
Ribbon Cable	No	0.1m	No	WiFi Interface Board	WiFi and Bluetooth Radio
Micro USB Cable	No	1.0m	No	WiFi Interface Board	Laptop

# MODIFICATIONS

## Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	7/29/2016	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.
2	8/9/2016	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.
3	8/9/2016	Occupied Bandwidth	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
4	8/9/2016	Output Power	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
5	8/9/2016	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.
6	8/9/2016	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.
7	8/9/2016	Spurious Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

# 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

Transmitting 802.11bg at Low Channel 1 (2412MHz), Mid Channel 6 (2437MHz), and High Channel 11 (2462MHz)

## POWER SETTINGS INVESTIGATED

USB Powered

## CONFIGURATIONS INVESTIGATED

AWAR0022 - 4

## FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	26000 MHz
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## 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
Filter - Low Pass	Micro-Tronics	LPM50004	LFC	11/3/2015	12 mo
Attenuator	Coaxicom	66702 3910AF-20	TKI	3/3/2016	12 mo
Cable	Northwest EMC	8-18GHz RE Cables	OCO	8/26/2015	12 mo
Cable	Northwest EMC	18-26GHz RE Cables	OCK	1/6/2016	12 mo
Cable	Northwest EMC	1-8GHz RE Cables	OCJ	8/26/2015	12 mo
Cable	Northwest EMC	10kHz-1GHz RE Cables	OCH	3/3/2016	12 mo
Filter - High Pass	Micro-Tronics	HPM50111	HFM	2/9/2016	12 mo
Antenna - Biconilog	EMCO	3142B	AXK	10/6/2014	24 mo
Amplifier - Pre-Amplifier	Miteq	AMF-4D-010120-30-10P-1	AOP	8/26/2015	12 mo
Amplifier - Pre-Amplifier	Miteq	AM-1064-9079	AOO	3/3/2016	12 mo
Amplifier - Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AOI	1/6/2016	12 mo
Amplifier - Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AOF	8/31/2015	12 mo
Amplifier - Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AOE	8/31/2015	12 mo
Antenna - Standard Gain	ETS Lindgren	3160-08	AHT	NCR	0 mo
Antenna - Standard Gain	ETS Lindgren	3160-07	AHR	NCR	0 mo
Antenna - Standard Gain	ETS Lindgren	3160-09	AHN	NCR	0 mo
Antenna - Double Ridge	EMCO	3115	AHB	3/21/2016	24 mo
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFJ	2/9/2016	12 mo

## TEST DESCRIPTION

The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axis, and adjusting measurement antenna height and polarization. A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

# SPURIOUS RADIATED EMISSIONS

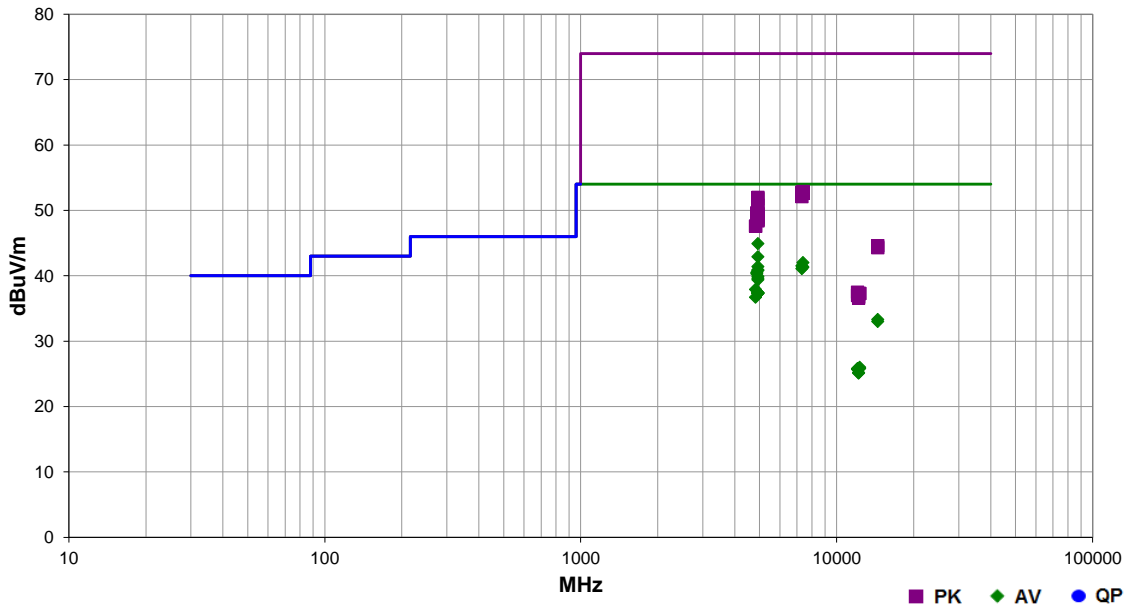


PSA-ESCI 2016.04.26.1  
EmiR5 2016.04.26.1

Work Order:	AWAR0022	Date:	07/29/16	
Project:	None	Temperature:	22.1 °C	
Job Site:	OC03	Humidity:	47.3% RH	
Serial Number:	None	Barometric Pres.:	1013 mbar	
Tested by: Mike Tran				
EUT:	BLEE			
Configuration:	4			
Customer:	Awarepoint Corporation			
Attendees:	None			
EUT Power:	USB Powered			
Operating Mode:	Transmitting 802.11bg at Low Channel 1 (2412MHz), Mid Channel 6 (2437MHz), and High Channel 11 (2462MHz)			
Deviations:	None			
Comments:	None			

Test Specifications	FCC 15.247:2016	Test Method	ANSI C63.10:2013
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Run #	30	Test Distance (m)	3	Antenna Height(s)	1 to 4(m)	Results	Pass
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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
4923.992	34.2	10.7	1.2	270.0	3.0	0.0	Vert	AV	0.0	44.9	54.0	-9.1	High Ch 11, 1Mbps, EUT Horz
4924.000	32.2	10.7	1.2	268.0	3.0	0.0	Vert	AV	0.0	42.9	54.0	-11.1	High Ch 11, 11Mbps, EUT Horz
7385.000	25.6	16.4	1.7	264.0	3.0	0.0	Vert	AV	0.0	42.0	54.0	-12.0	High Ch 11, 1Mbps, EUT Horz
7312.250	25.3	16.2	1.7	187.0	3.0	0.0	Vert	AV	0.0	41.5	54.0	-12.5	Mid Ch 6, 1Mbps, EUT Horz
4923.975	30.7	10.7	1.2	62.0	3.0	0.0	Horz	AV	0.0	41.4	54.0	-12.6	High Ch 11, 1Mbps, EUT Horz
7385.225	24.9	16.4	1.7	293.0	3.0	0.0	Horz	AV	0.0	41.3	54.0	-12.7	High Ch 11, 1Mbps, EUT Horz
7312.558	24.9	16.2	3.8	360.0	3.0	0.0	Horz	AV	0.0	41.1	54.0	-12.9	Mid Ch 6, 1Mbps, EUT Horz
4923.983	30.2	10.7	1.2	64.0	3.0	0.0	Horz	AV	0.0	40.9	54.0	-13.1	High Ch 11, 11Mbps, EUT Horz
4924.083	30.1	10.7	1.6	138.0	3.0	0.0	Vert	AV	0.0	40.8	54.0	-13.2	High Ch 11, 1Mbps, EUT on Side
4874.058	29.9	10.6	1.7	133.0	3.0	0.0	Vert	AV	0.0	40.5	54.0	-13.5	Mid Ch 6, 1Mbps, EUT Horz
4873.967	29.7	10.6	1.7	29.0	3.0	0.0	Horz	AV	0.0	40.3	54.0	-13.7	Mid Ch 6, 1Mbps, EUT Horz
4924.050	29.2	10.7	1.2	305.0	3.0	0.0	Horz	AV	0.0	39.9	54.0	-14.1	High Ch 11, 1Mbps, EUT Vert
4924.042	28.9	10.7	1.2	70.0	3.0	0.0	Horz	AV	0.0	39.6	54.0	-14.4	High Ch 11, 1Mbps, EUT on Side
4924.033	28.7	10.7	1.2	207.0	3.0	0.0	Vert	AV	0.0	39.4	54.0	-14.6	High Ch 11, 1Mbps, EUT Vert
4823.983	27.4	10.5	1.7	312.0	3.0	0.0	Vert	AV	0.0	37.9	54.0	-16.1	Low Ch 1, 1Mbps, EUT Horz
4923.558	26.7	10.7	1.9	66.0	3.0	0.0	Horz	AV	0.0	37.4	54.0	-16.6	High Ch 11, 6Mbps, EUT Horz
4925.092	26.7	10.7	1.2	58.0	3.0	0.0	Horz	AV	0.0	37.4	54.0	-16.6	High Ch 11, 36Mbps, EUT Horz
4926.333	26.7	10.7	1.2	360.0	3.0	0.0	Vert	AV	0.0	37.4	54.0	-16.6	High Ch 11, 54Mbps, EUT Horz
4926.367	26.6	10.7	1.2	83.0	3.0	0.0	Vert	AV	0.0	37.3	54.0	-16.7	High Ch 11, 6Mbps, EUT Horz
4925.150	26.6	10.7	1.2	185.0	3.0	0.0	Vert	AV	0.0	37.3	54.0	-16.7	High Ch 11, 36Mbps, EUT Horz
4922.008	26.6	10.7	1.2	97.0	3.0	0.0	Horz	AV	0.0	37.3	54.0	-16.7	High Ch 11, 54Mbps, EUT Horz
4823.975	26.2	10.5	1.7	112.0	3.0	0.0	Horz	AV	0.0	36.7	54.0	-17.3	Low Ch 1, 1Mbps, EUT Horz
14473.470	26.7	6.6	4.0	34.0	3.0	0.0	Horz	AV	0.0	33.3	54.0	-20.7	Low Ch 1, 1Mbps, EUT Horz

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
14469.710	26.4	6.6	1.7	258.0	3.0	0.0	Vert	AV	0.0	33.0	54.0	-21.0	Low Ch 1, 1Mbps, EUT Horz
7387.117	36.5	16.4	1.7	293.0	3.0	0.0	Horz	PK	0.0	52.9	74.0	-21.1	High Ch 11, 1Mbps, EUT Horz
7312.992	36.6	16.2	1.7	187.0	3.0	0.0	Vert	PK	0.0	52.8	74.0	-21.2	Mid Ch 6, 1Mbps, EUT Horz
7386.750	36.2	16.4	1.7	264.0	3.0	0.0	Vert	PK	0.0	52.6	74.0	-21.4	High Ch 11, 1Mbps, EUT Horz
7311.642	35.9	16.2	3.8	360.0	3.0	0.0	Horz	PK	0.0	52.1	74.0	-21.9	Mid Ch 6, 1Mbps, EUT Horz
4923.900	41.3	10.7	1.2	270.0	3.0	0.0	Vert	PK	0.0	52.0	74.0	-22.0	High Ch 11, 1Mbps, EUT Horz
4924.000	41.1	10.7	1.2	268.0	3.0	0.0	Vert	PK	0.0	51.8	74.0	-22.2	High Ch 11, 1Mbps, EUT Horz
4924.075	40.1	10.7	1.2	64.0	3.0	0.0	Horz	PK	0.0	50.8	74.0	-23.2	High Ch 11, 1Mbps, EUT Horz
4924.200	39.3	10.7	1.2	62.0	3.0	0.0	Horz	PK	0.0	50.0	74.0	-24.0	High Ch 11, 1Mbps, EUT Horz
4874.008	39.0	10.6	1.7	29.0	3.0	0.0	Horz	PK	0.0	49.6	74.0	-24.4	Mid Ch 6, 1Mbps, EUT Horz
4874.050	39.0	10.6	1.7	133.0	3.0	0.0	Vert	PK	0.0	49.6	74.0	-24.4	Mid Ch 6, 1Mbps, EUT Horz
4924.008	38.8	10.7	1.6	138.0	3.0	0.0	Vert	PK	0.0	49.5	74.0	-24.5	High Ch 11, 1Mbps, EUT on Side
4923.967	38.7	10.7	1.2	207.0	3.0	0.0	Vert	PK	0.0	49.4	74.0	-24.6	High Ch 11, 1Mbps, EUT Vert
4924.050	38.6	10.7	1.2	305.0	3.0	0.0	Horz	PK	0.0	49.3	74.0	-24.7	High Ch 11, 1Mbps, EUT Vert
4923.983	38.3	10.7	1.2	70.0	3.0	0.0	Horz	PK	0.0	49.0	74.0	-25.0	High Ch 11, 1Mbps, EUT on Side
4924.442	38.3	10.7	1.2	83.0	3.0	0.0	Vert	PK	0.0	49.0	74.0	-25.0	High Ch 11, 6Mbps, EUT Horz
4925.942	38.3	10.7	1.2	360.0	3.0	0.0	Vert	PK	0.0	49.0	74.0	-25.0	High Ch 11, 54Mbps, EUT Horz
4921.192	38.2	10.7	1.2	58.0	3.0	0.0	Horz	PK	0.0	48.9	74.0	-25.1	High Ch 11, 36Mbps, EUT Horz
4923.683	37.9	10.7	1.2	97.0	3.0	0.0	Horz	PK	0.0	48.6	74.0	-25.4	High Ch 11, 54Mbps, EUT Horz
4922.350	37.8	10.7	1.2	185.0	3.0	0.0	Vert	PK	0.0	48.5	74.0	-25.5	High Ch 11, 36Mbps, EUT Horz
4923.142	37.7	10.7	1.9	66.0	3.0	0.0	Horz	PK	0.0	48.4	74.0	-25.6	High Ch 11, 6Mbps, EUT Horz
4823.758	37.1	10.5	1.7	112.0	3.0	0.0	Horz	PK	0.0	47.6	74.0	-26.4	Low Ch 1, 1Mbps, EUT Horz
4825.192	37.1	10.5	1.7	312.0	3.0	0.0	Vert	PK	0.0	47.6	74.0	-26.4	Low Ch 1, 1Mbps, EUT Horz
12307.530	33.9	-7.9	3.9	53.0	3.0	0.0	Vert	AV	0.0	26.0	54.0	-28.0	High Ch 11, 1Mbps, EUT Horz
12057.810	34.1	-8.3	1.7	277.0	3.0	0.0	Vert	AV	0.0	25.8	54.0	-28.2	Low Ch 1, 1Mbps, EUT Horz
12310.410	33.7	-7.9	1.7	64.0	3.0	0.0	Horz	AV	0.0	25.8	54.0	-28.2	High Ch 11, 1Mbps, EUT Horz
12057.510	34.0	-8.3	1.7	349.0	3.0	0.0	Horz	AV	0.0	25.7	54.0	-28.3	Low Ch 1, 1Mbps, EUT Horz
12182.850	33.2	-8.0	1.7	79.0	3.0	0.0	Vert	AV	0.0	25.2	54.0	-28.8	Mid Ch 6, 1Mbps, EUT Horz
12183.350	33.1	-8.0	1.7	174.0	3.0	0.0	Horz	AV	0.0	25.1	54.0	-28.9	Mid Ch 6, 1Mbps, EUT Horz
14473.630	38.0	6.6	4.0	34.0	3.0	0.0	Horz	PK	0.0	44.6	74.0	-29.4	Low Ch 1, 1Mbps, EUT Horz
14473.110	37.7	6.6	1.7	258.0	3.0	0.0	Vert	PK	0.0	44.3	74.0	-29.7	Low Ch 1, 1Mbps, EUT Horz
12060.530	45.8	-8.3	1.7	349.0	3.0	0.0	Horz	PK	0.0	37.5	74.0	-36.5	Low Ch 1, 1Mbps, EUT Horz
12308.330	45.2	-7.9	1.7	64.0	3.0	0.0	Horz	PK	0.0	37.3	74.0	-36.7	High Ch 11, 1Mbps, EUT Horz
12311.630	45.2	-7.9	3.9	53.0	3.0	0.0	Vert	PK	0.0	37.3	74.0	-36.7	High Ch 11, 1Mbps, EUT Horz
12061.960	45.3	-8.3	1.7	277.0	3.0	0.0	Vert	PK	0.0	37.0	74.0	-37.0	Low Ch 1, 1Mbps, EUT Horz
12184.280	44.8	-8.0	1.7	174.0	3.0	0.0	Horz	PK	0.0	36.8	74.0	-37.2	Mid Ch 6, 1Mbps, EUT Horz
12182.620	44.6	-8.0	1.7	79.0	3.0	0.0	Vert	PK	0.0	36.6	74.0	-37.4	Mid Ch 6, 1Mbps, EUT Horz

# SPURIOUS RADIATED EMISSIONS

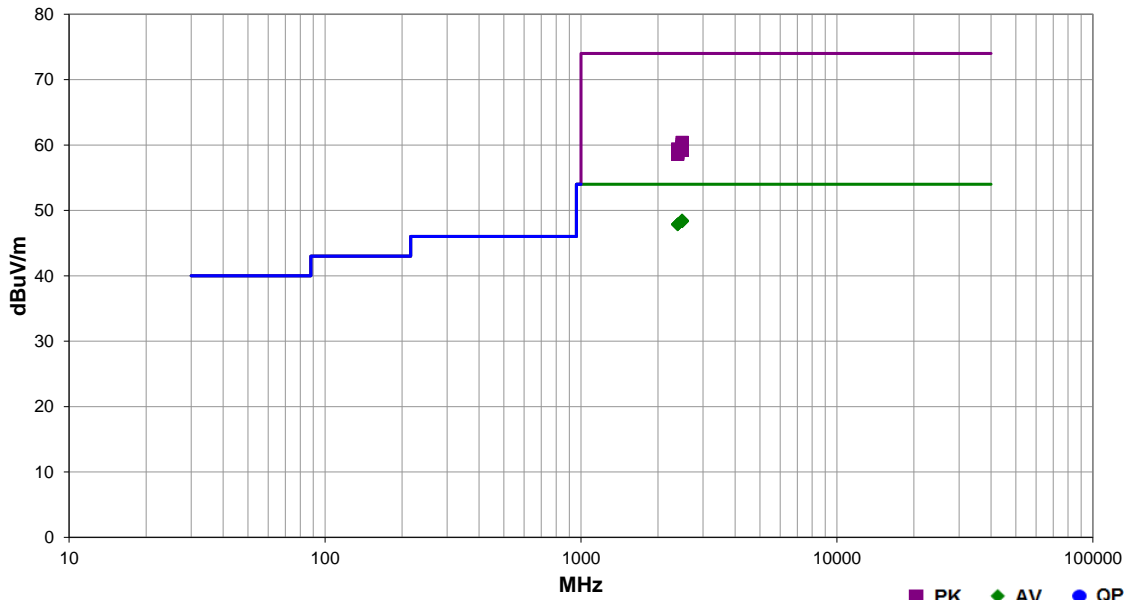


PSA-ESCI 2016.04.26.1  
EmiR5 2016.04.26.1

Work Order:	AWAR0022	Date:	07/29/16	
Project:	None	Temperature:	22.1 °C	
Job Site:	OC03	Humidity:	47.3% RH	
Serial Number:	None	Barometric Pres.:	1013 mbar	
Tested by: Mike Tran				
EUT:	BLEE			
Configuration:	4			
Customer:	Awarepoint Corporation			
Attendees:	None			
EUT Power:	USB Powered			
Operating Mode:	Transmitting 802.11bg at Low Channel 1 (2412MHz) and High Channel 11 (2462MHz)			
Deviations:	None			
Comments:	None			

Test Specifications	Test Method
FCC 15.247:2016	ANSI C63.10:2013

Run #	31	Test Distance (m)	3	Antenna Height(s)	1 to 4(m)	Results	Pass
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■ PK ◆ AV ● QP

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
2484.660	26.7	1.8	1.7	344.0	3.0	20.0	Horz	AV	0.0	48.5	54.0	-5.5	High Ch 11, 6Mbps, Eut Vert
2485.123	26.6	1.8	1.7	72.0	3.0	20.0	Vert	AV	0.0	48.4	54.0	-5.6	High Ch 11, 6Mbps, Eut Vert
2485.137	26.6	1.8	1.7	194.0	3.0	20.0	Horz	AV	0.0	48.4	54.0	-5.6	High Ch 11, 6Mbps, EUT on Side
2484.050	26.6	1.8	1.7	344.0	3.0	20.0	Horz	AV	0.0	48.4	54.0	-5.6	High Ch 11, 1Mbps, EUT Vert
2484.317	26.6	1.8	1.7	344.0	3.0	20.0	Horz	AV	0.0	48.4	54.0	-5.6	High Ch 11, 11Mbps, EUT Vert
2484.720	26.6	1.8	1.7	344.0	3.0	20.0	Horz	AV	0.0	48.4	54.0	-5.6	High Ch 11, 36Mbps, EUT Vert
2485.497	26.6	1.8	1.7	344.0	3.0	20.0	Horz	AV	0.0	48.4	54.0	-5.6	High Ch 11, 54Mbps, EUT Vert
2484.757	26.5	1.8	1.7	160.0	3.0	20.0	Horz	AV	0.0	48.3	54.0	-5.7	High Ch 11, 6Mbps, EUT Horz
2484.990	26.5	1.8	2.7	120.0	3.0	20.0	Vert	AV	0.0	48.3	54.0	-5.7	High Ch 11, 6Mbps, EUT Horz
2484.393	26.5	1.8	1.7	349.0	3.0	20.0	Vert	AV	0.0	48.3	54.0	-5.7	High Ch 11, 6Mbps, EUT on Side
2389.903	26.6	1.3	1.7	311.0	3.0	20.0	Horz	AV	0.0	47.9	54.0	-6.1	Low Ch 1, 1Mbps, EUT Vert
2389.527	26.6	1.3	1.7	155.0	3.0	20.0	Vert	AV	0.0	47.9	54.0	-6.1	Low Ch 1, 1Mbps, EUT Vert
2389.697	26.5	1.3	1.7	306.0	3.0	20.0	Horz	AV	0.0	47.8	54.0	-6.2	Low Ch 1, 6Mbps, EUT Vert
2389.343	26.5	1.3	1.7	104.0	3.0	20.0	Vert	AV	0.0	47.8	54.0	-6.2	Low Ch 1, 6Mbps, EUT Vert
2484.730	38.6	1.8	1.7	344.0	3.0	20.0	Horz	PK	0.0	60.4	74.0	-13.6	High Ch 11, 1Mbps, EUT Vert
2484.967	38.3	1.8	1.7	344.0	3.0	20.0	Horz	PK	0.0	60.1	74.0	-13.9	High Ch 11, 36Mbps, EUT Vert
2484.677	38.0	1.8	1.7	349.0	3.0	20.0	Vert	PK	0.0	59.8	74.0	-14.2	High Ch 11, 6Mbps, EUT on Side
2485.223	37.9	1.8	1.7	344.0	3.0	20.0	Horz	PK	0.0	59.7	74.0	-14.3	High Ch 11, 6Mbps, Eut Vert
2483.597	37.8	1.8	2.7	120.0	3.0	20.0	Vert	PK	0.0	59.6	74.0	-14.4	High Ch 11, 6Mbps, EUT Horz
2484.943	37.8	1.8	1.7	344.0	3.0	20.0	Horz	PK	0.0	59.6	74.0	-14.4	High Ch 11, 54Mbps, EUT Vert
2483.747	37.6	1.8	1.7	160.0	3.0	20.0	Horz	PK	0.0	59.4	74.0	-14.6	High Ch 11, 6Mbps, EUT Horz
2389.967	38.1	1.3	1.7	155.0	3.0	20.0	Vert	PK	0.0	59.4	74.0	-14.6	Low Ch 1, 1Mbps, EUT Vert
2484.667	37.5	1.8	1.7	194.0	3.0	20.0	Horz	PK	0.0	59.3	74.0	-14.7	High Ch 11, 6Mbps, 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
2484.507	37.5	1.8	1.7	344.0	3.0	20.0	Horz	PK	0.0	59.3	74.0	-14.7	High Ch 11, 11Mbps, EUT Vert
2485.347	37.4	1.8	1.7	72.0	3.0	20.0	Vert	PK	0.0	59.2	74.0	-14.8	High Ch 11, 6Mbps, Eut Vert
2389.167	37.8	1.3	1.7	306.0	3.0	20.0	Horz	PK	0.0	59.1	74.0	-14.9	Low Ch 1, 6Mbps, EUT Vert
2388.887	37.5	1.3	1.7	104.0	3.0	20.0	Vert	PK	0.0	58.8	74.0	-15.2	Low Ch 1, 6Mbps, EUT Vert
2388.607	37.3	1.3	1.7	311.0	3.0	20.0	Horz	PK	0.0	58.6	74.0	-15.4	Low Ch 1, 1Mbps, EUT Vert



# 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.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	11/19/2015	11/19/2016
Generator - Signal	Keysight	N5182B	TFX	4/16/2015	4/16/2018
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Attenuator	Fairview Microwave	SA18E-20	TKS	4/4/2016	4/4/2017
Block - DC	Aeroflex	INMET 8535	AMO	4/4/2016	4/4/2017

## TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The Duty Cycle (x) of the single channel operation of the radio as controlled by the provided test software was measured for each of the EUT operating modes.

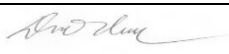
There is no compliance requirement to be met by this test, so therefore no Pass / Fail criteria.

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.

The duty cycle was calculated by dividing the transmission pulse duration (T) by the total period of a single on and total off time.

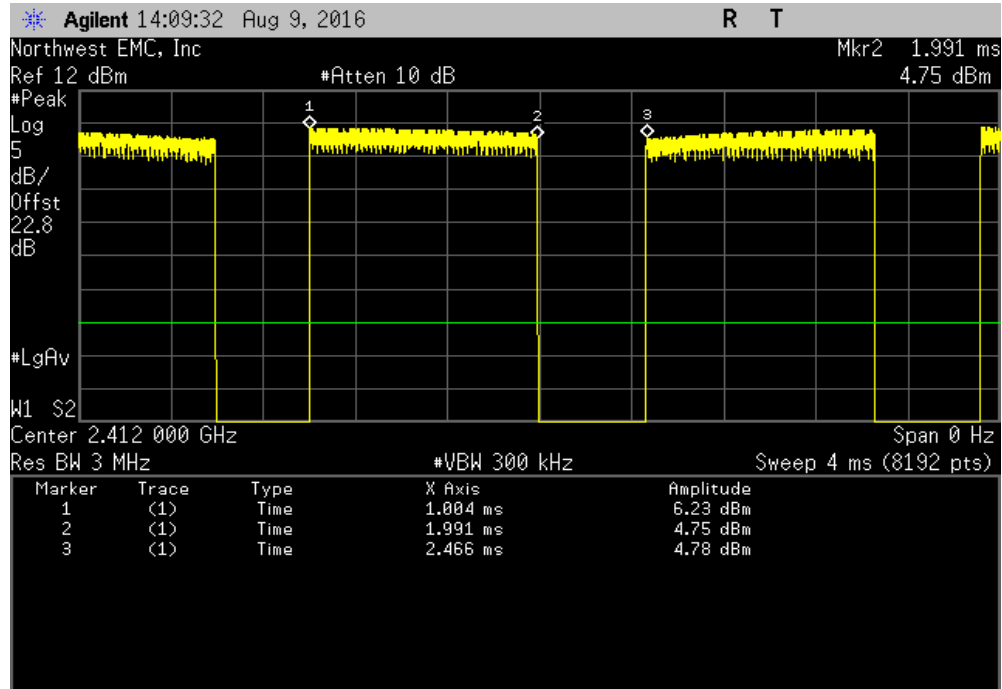
If the transmit duty cycle < 98 percent, burst gating may have been used during some of the other tests in this report to only take the measurement during the burst duration.

# DUTY CYCLE

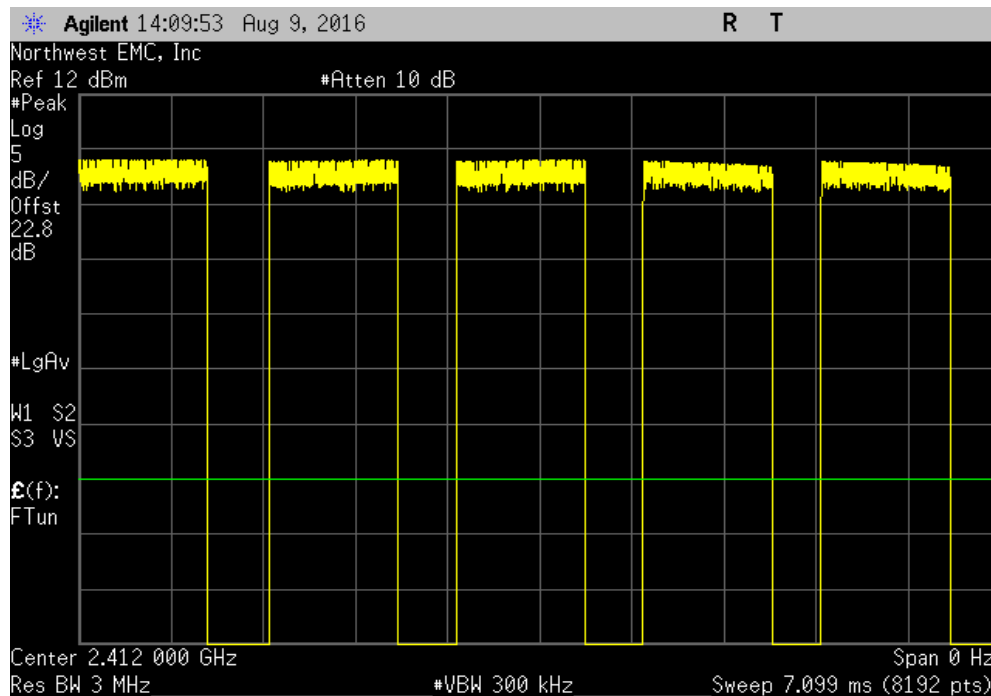
EUT: BLEE		Work Order: AWAR0022	
Serial Number: None		Date: 08/09/16	
Customer: Awarepoint Corporation		Temperature: 23 °C	
Attendees: None		Humidity: 44.8% RH	
Project: None		Barometric Pres.: 1014 mbar	
Tested by: Mike Tran		Power: USB Powered	
		Job Site: OC13	
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2016		ANSI C63.10:2013	
COMMENTS			
Total reference level offset: DC Block + 20dB attenuator + RF Cable + Patch Cable = 22.75 dB. Power setting = 0.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	4	Signature 	
		Pulse Width	Period
		Number of Pulses	Value (%)
		Limit (%)	Results
2400 MHz - 2483.5 MHz Band			
802.11(b) 1 Mbps			
	Low Channel 1, 2412 MHz	987.44 us	1.462 ms
	Low Channel 1, 2412 MHz	N/A	N/A
	Mid Channel 6, 2437 MHz	988.893 us	1.742 ms
	Mid Channel 6, 2437 MHz	N/A	N/A
	High Channel 11, 2462 MHz	988.405 us	1.435 ms
	High Channel 11, 2462 MHz	N/A	N/A
802.11(b) 11 Mbps			
	Low Channel 1, 2412 MHz	261.493 us	635.544 us
	Low Channel 1, 2412 MHz	N/A	N/A
	Mid Channel 6, 2437 MHz	261.593 us	644.644 us
	Mid Channel 6, 2437 MHz	N/A	N/A
	High Channel 11, 2462 MHz	261.449 us	572.3 us
	High Channel 11, 2462 MHz	N/A	N/A
802.11(g) 6 Mbps			
	Low Channel 1, 2412 MHz	150.389 us	391.909 us
	Low Channel 1, 2412 MHz	N/A	N/A
	Mid Channel 6, 2437 MHz	149.412 us	319.879 us
	Mid Channel 6, 2437 MHz	N/A	N/A
	High Channel 11, 2462 MHz	148.191 us	265.426 us
	High Channel 11, 2462 MHz	N/A	N/A
802.11(g) 36 Mbps			
	Low Channel 1, 2412 MHz	33.457 us	230.524 us
	Low Channel 1, 2412 MHz	N/A	N/A
	Mid Channel 6, 2437 MHz	34.145 us	177.053 us
	Mid Channel 6, 2437 MHz	N/A	N/A
	High Channel 11, 2462 MHz	35.122 us	233.354 us
	High Channel 11, 2462 MHz	N/A	N/A
802.11(g) 54 Mbps			
	Low Channel 1, 2412 MHz	26.777 us	195.267 us
	Low Channel 1, 2412 MHz	N/A	N/A
	Mid Channel 6, 2437 MHz	32.393 us	213.39 us
	Mid Channel 6, 2437 MHz	N/A	N/A
	High Channel 11, 2462 MHz	32.549 us	201.035 us
	High Channel 11, 2462 MHz	N/A	N/A

# DUTY CYCLE

2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
987.44 us	1.462 ms	1	67.5	N/A	N/A	

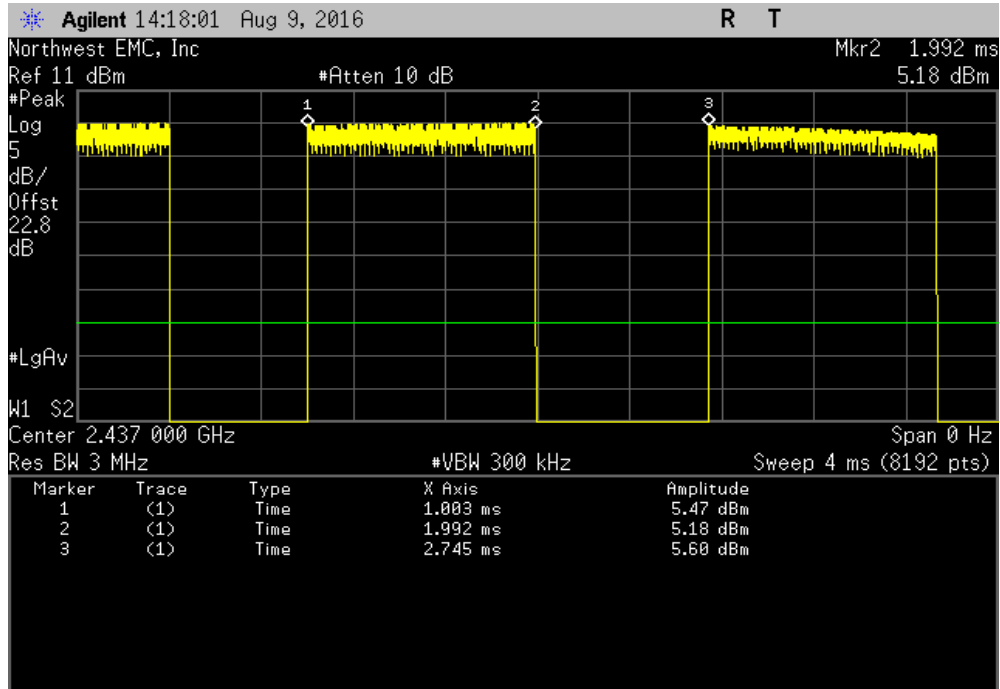


2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

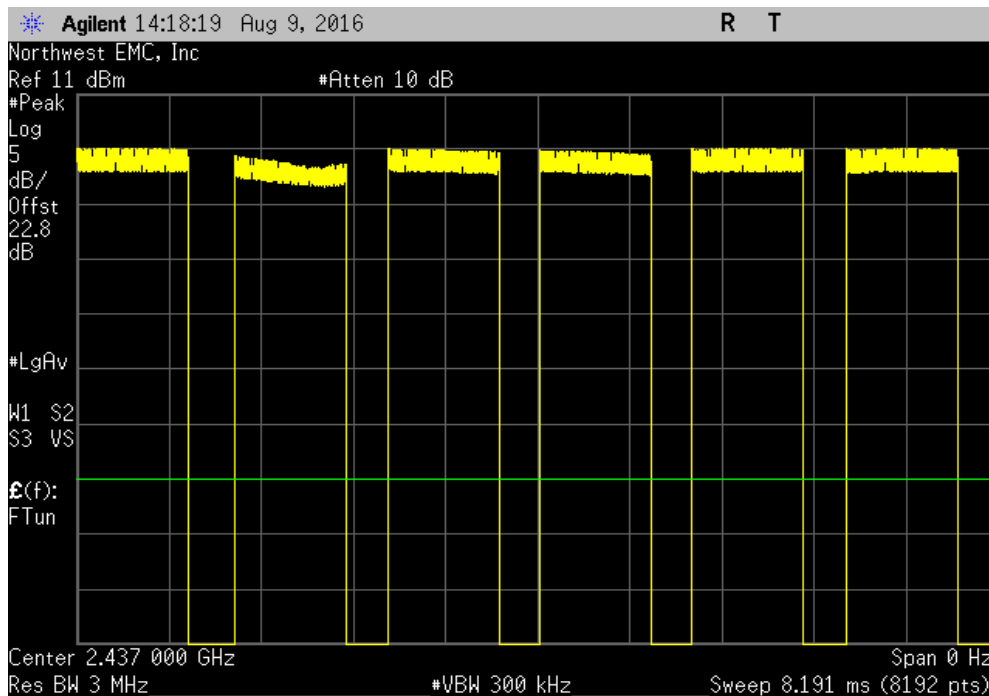


# DUTY CYCLE

2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	988.893 us	1.742 ms	1	56.8	N/A	N/A

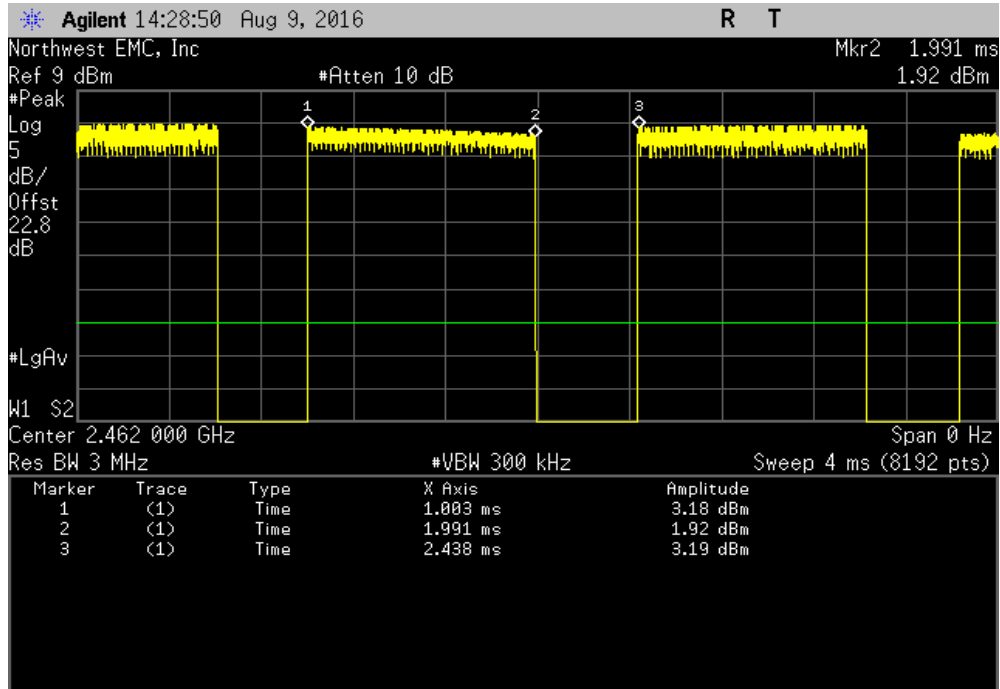


2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results
	N/A	N/A	6	N/A	N/A	N/A

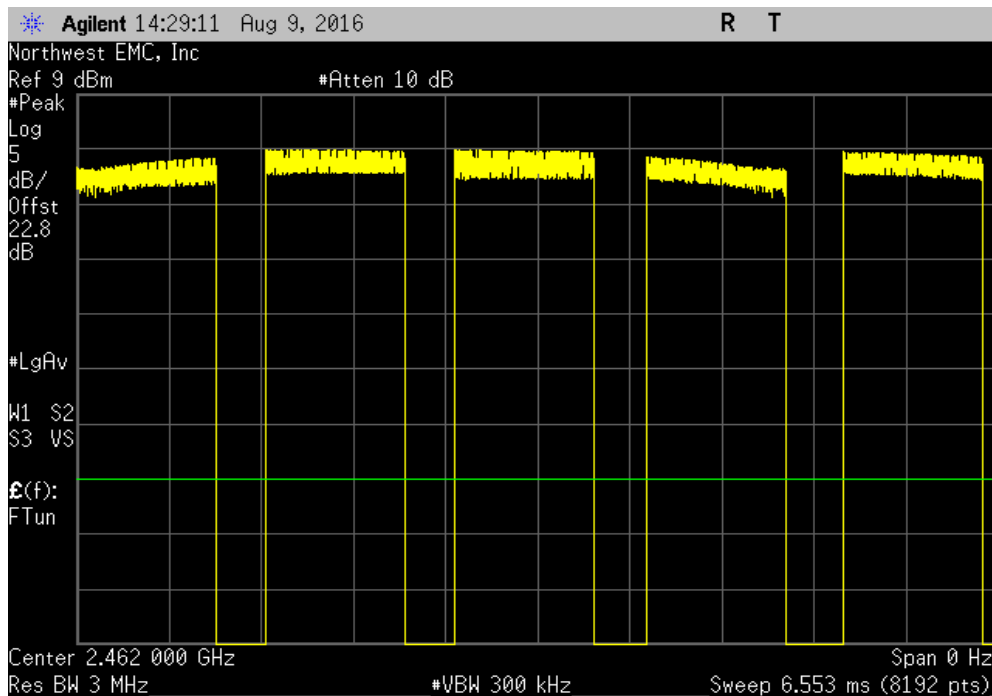


# DUTY CYCLE

2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
988.405 us	1.435 ms	1	68.9	N/A	N/A	

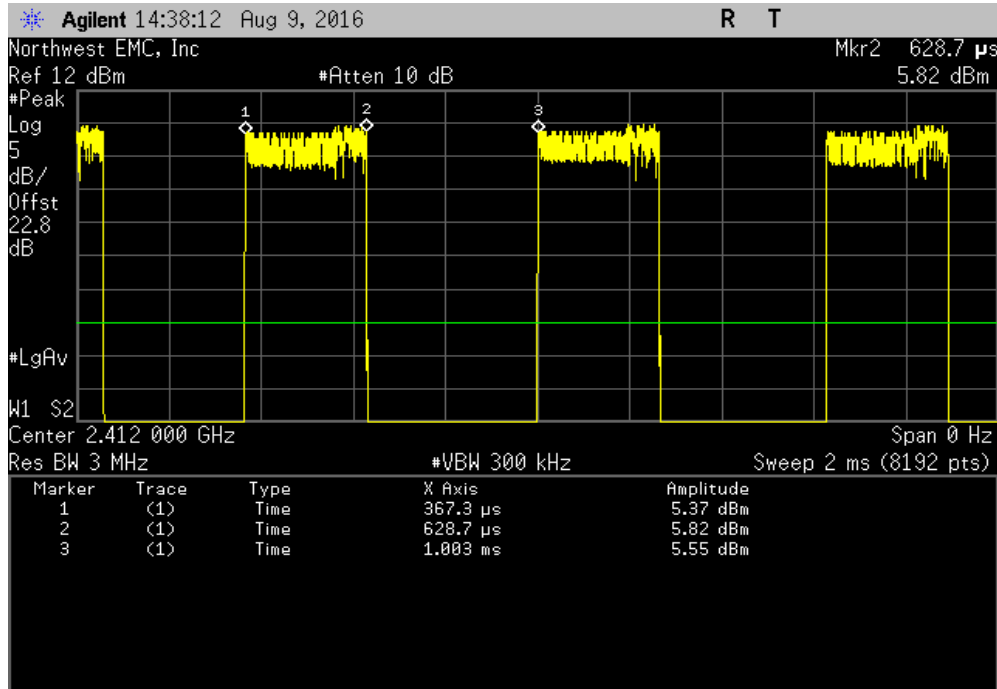


2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

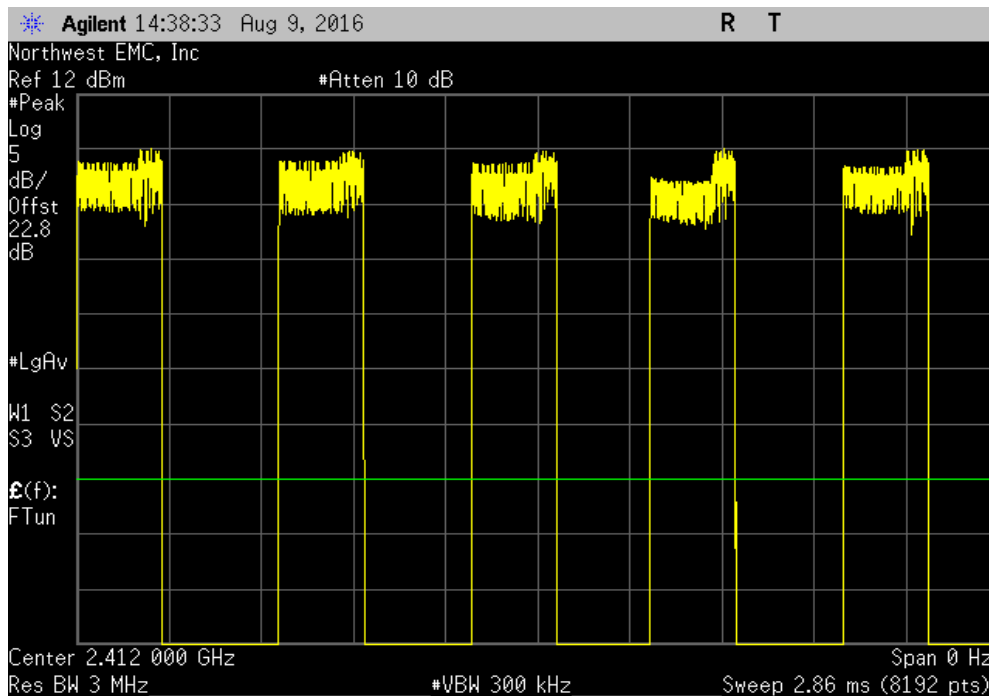


# DUTY CYCLE

2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
261.493 us	635.544 us	1	41.1	N/A	N/A	

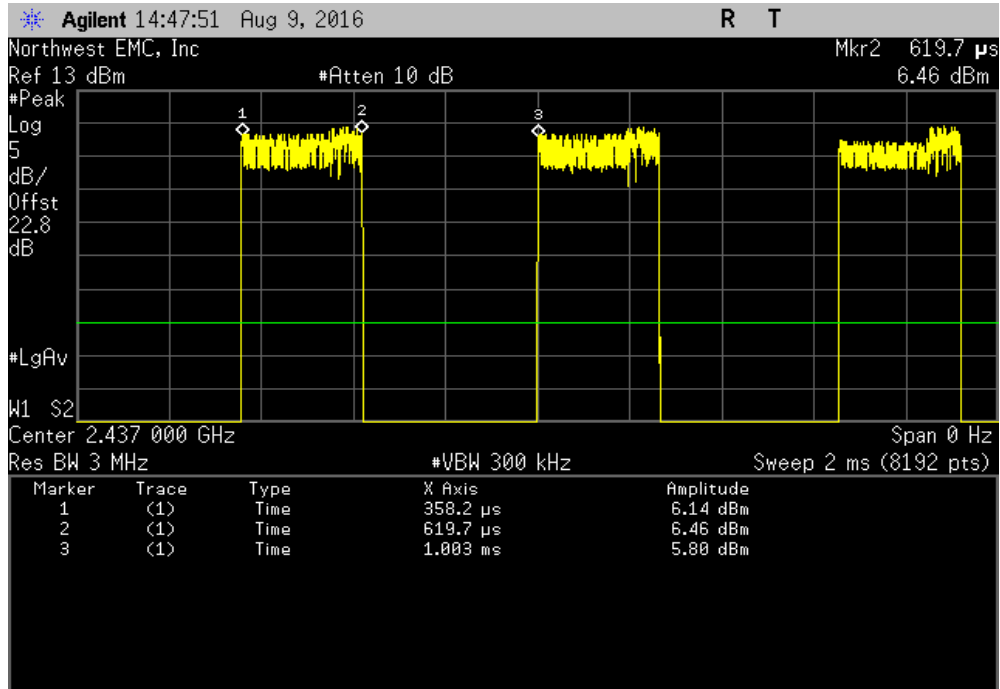


2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

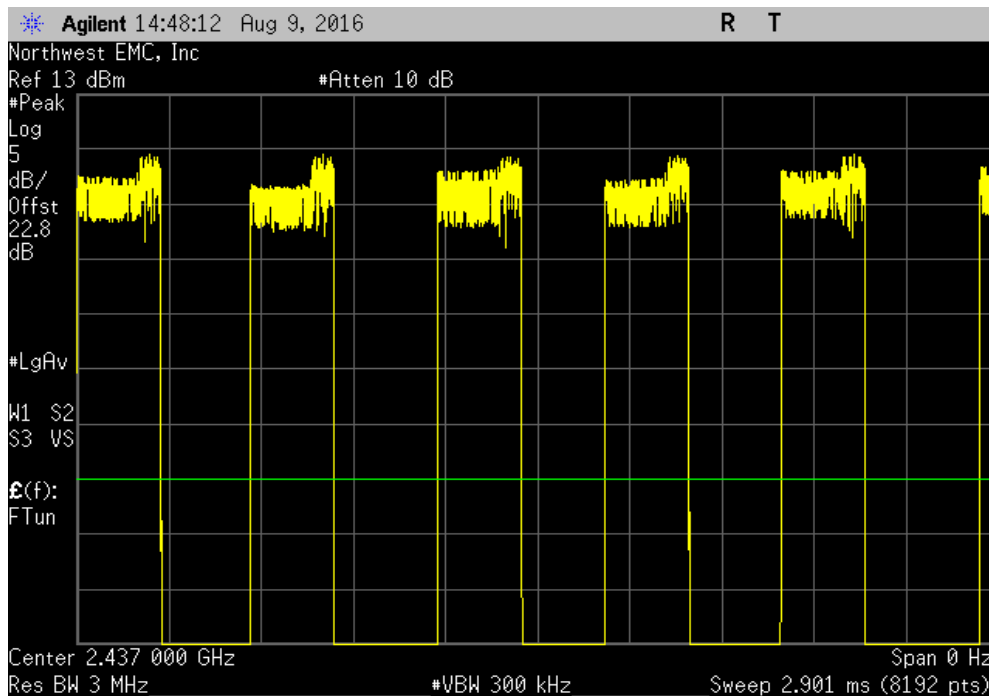


# DUTY CYCLE

2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
261.593 us	644.644 us	1	40.6	N/A	N/A	



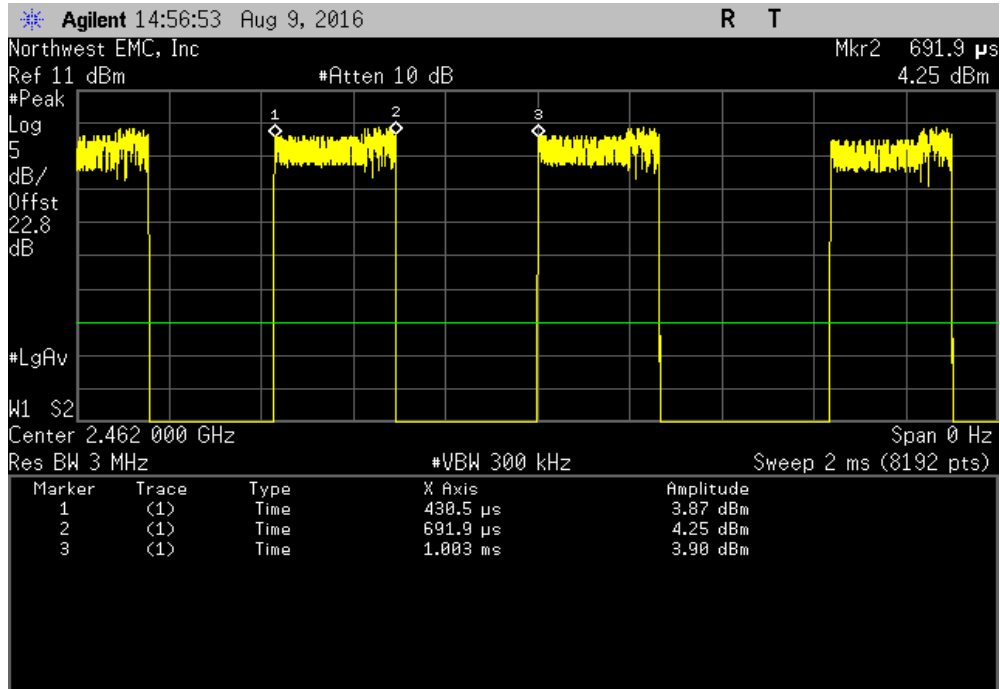
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	6	N/A	N/A	N/A	



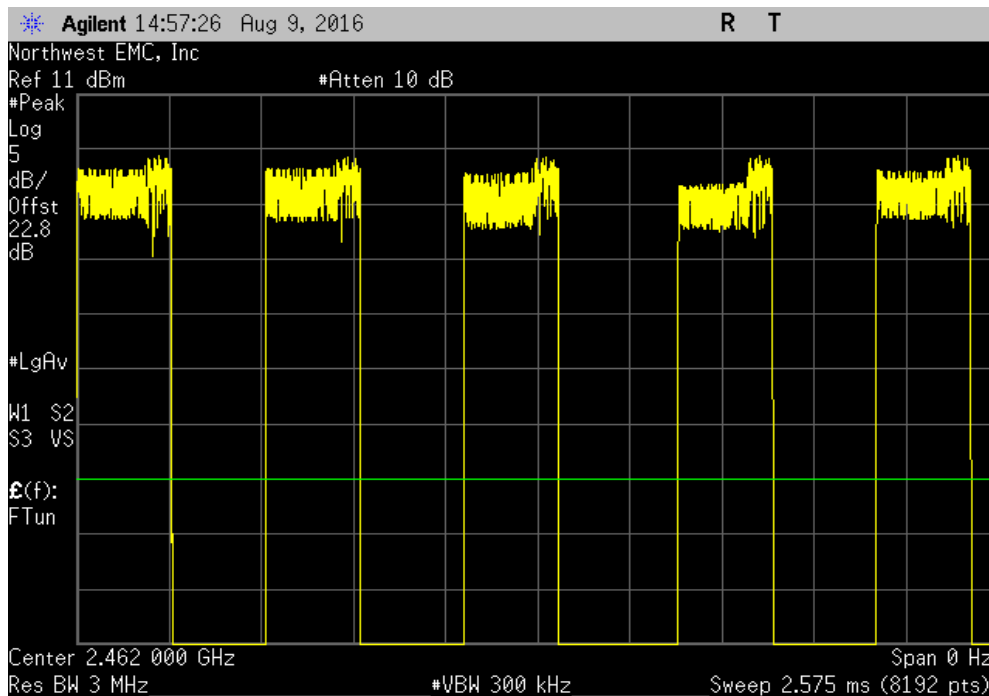


# DUTY CYCLE

2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
261.449 us	572.3 us	1	45.7	N/A	N/A	

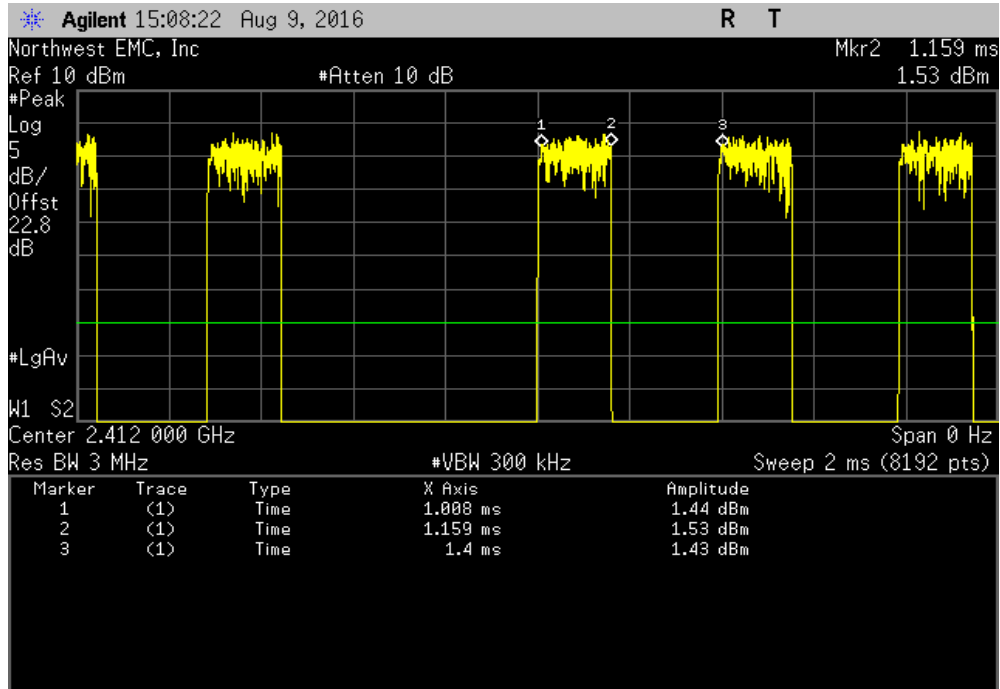


2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

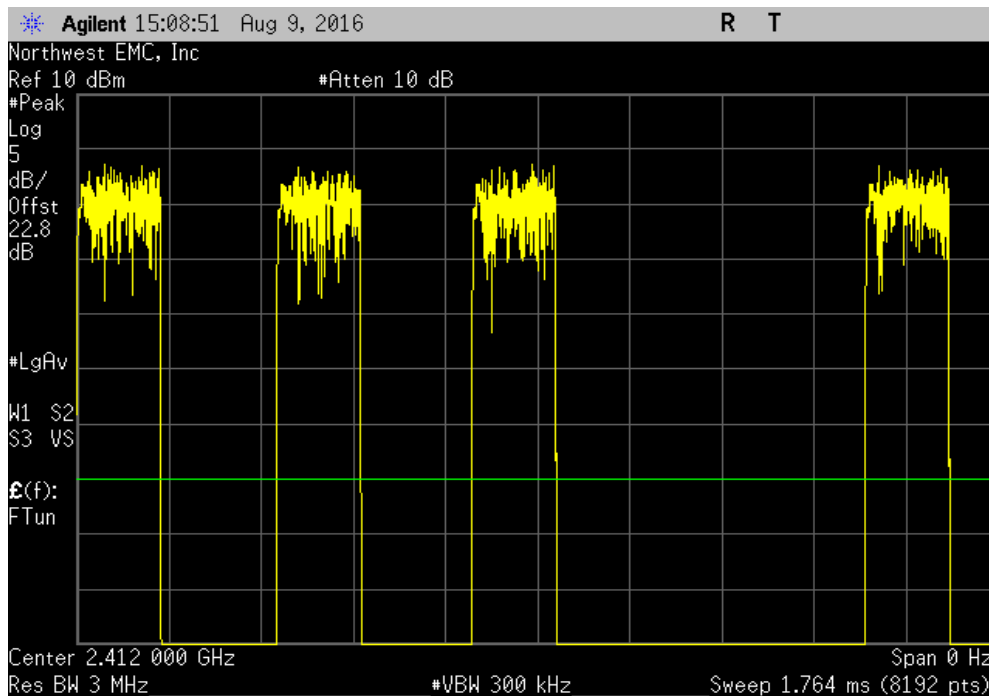


# DUTY CYCLE

2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
150.389 us	391.909 us	1	38.4	N/A	N/A	

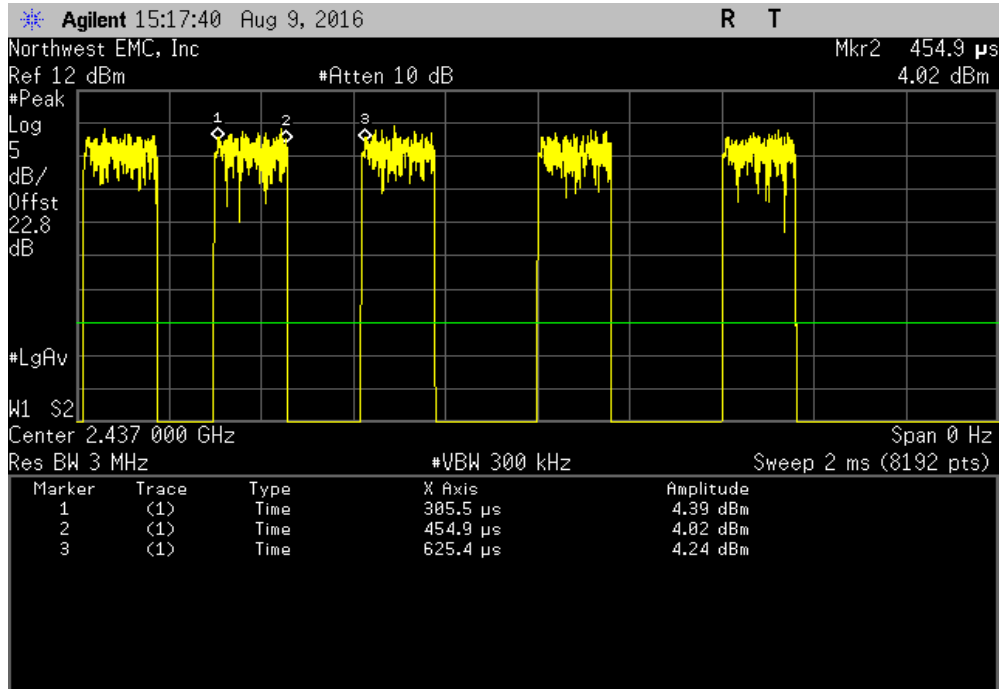


2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	4	N/A	N/A	N/A	

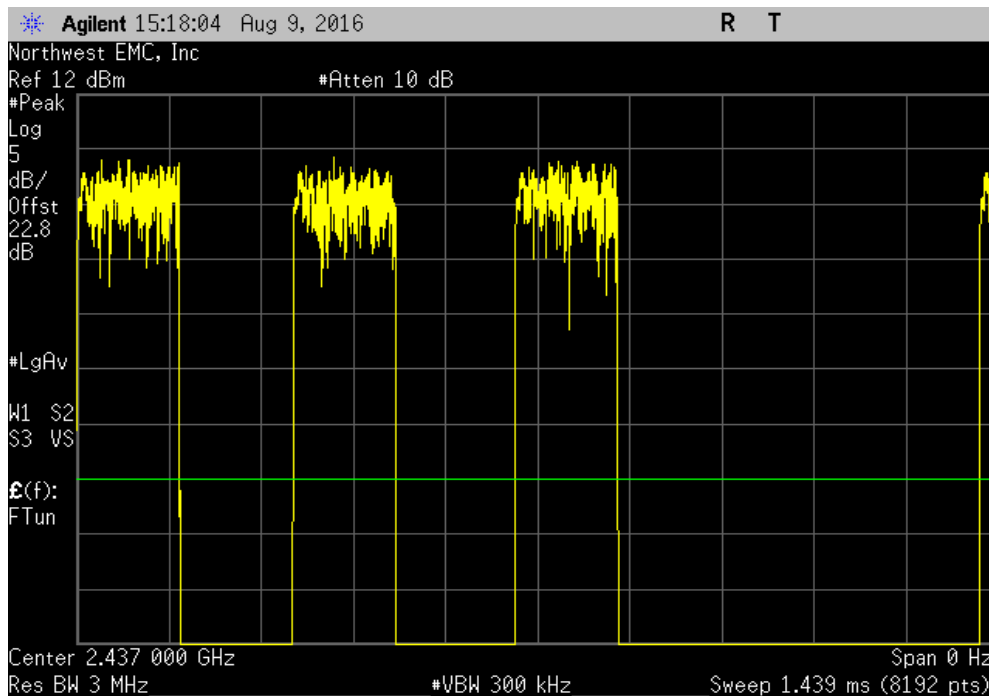


# DUTY CYCLE

2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
149.412 us	319.879 us	1	46.7	N/A	N/A	

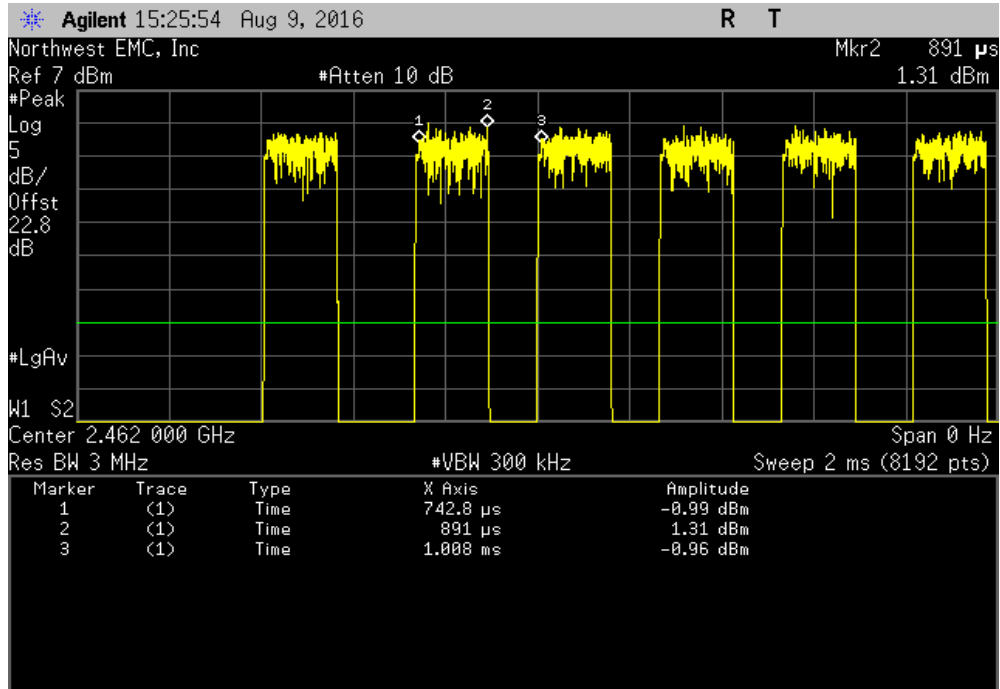


2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	4	N/A	N/A	N/A	

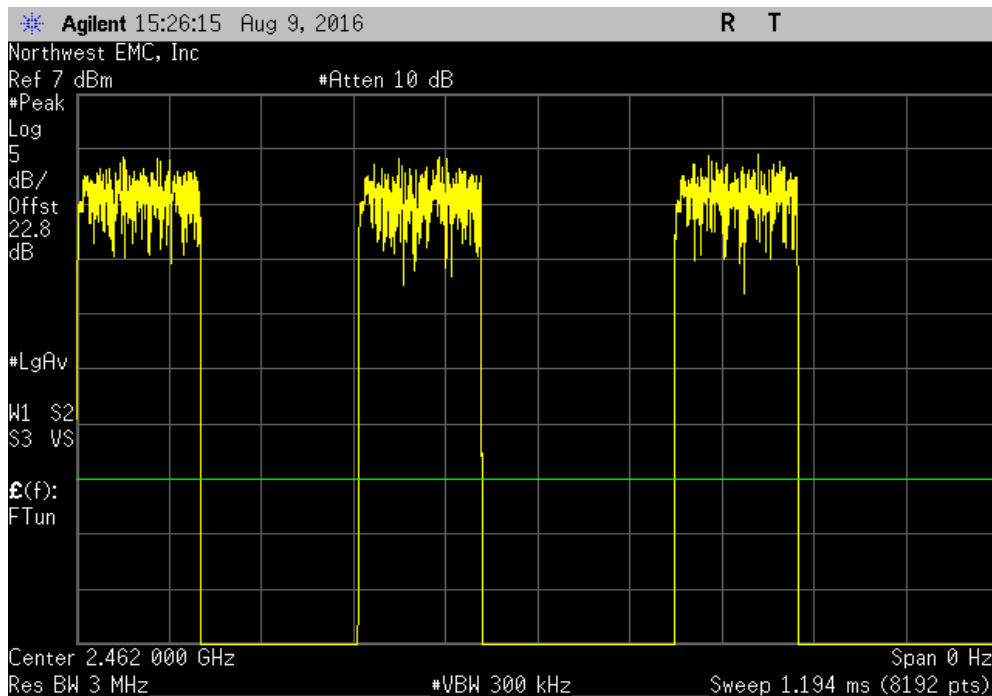


# DUTY CYCLE

2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
148.191 us	265.426 us	1	55.8	N/A	N/A	

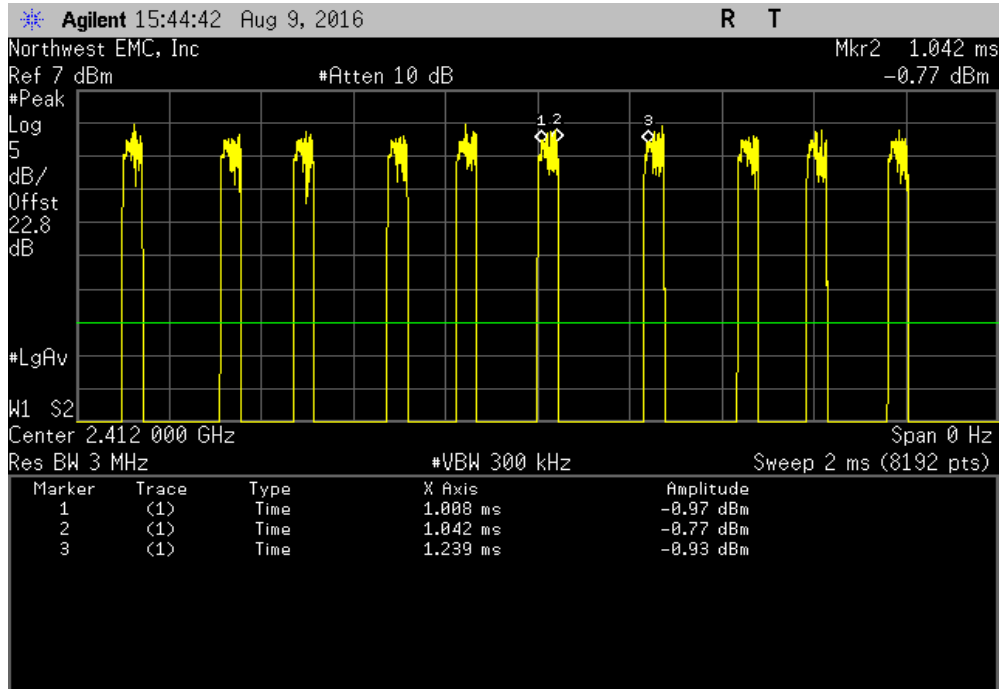


2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	3	N/A	N/A	N/A	

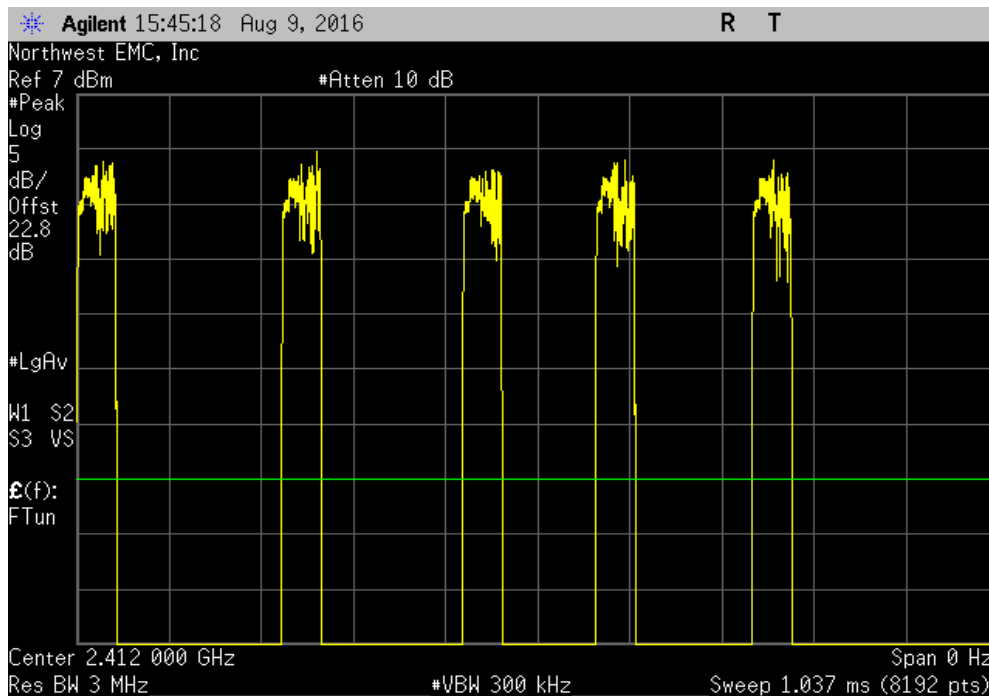


# DUTY CYCLE

2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
33.457 us	230.524 us	1	14.5	N/A	N/A	

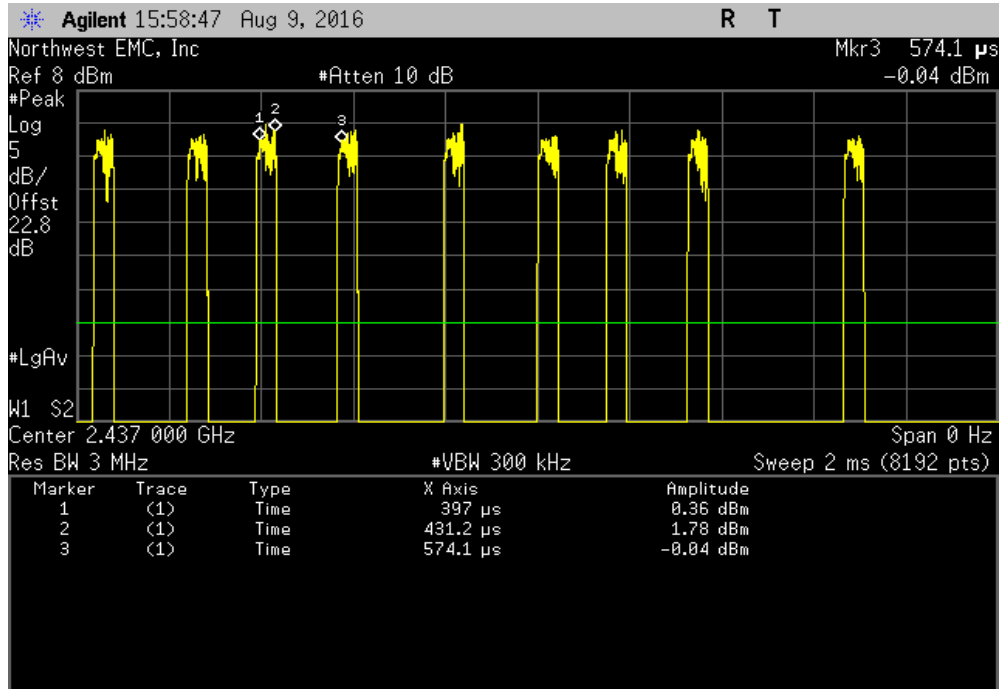


2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

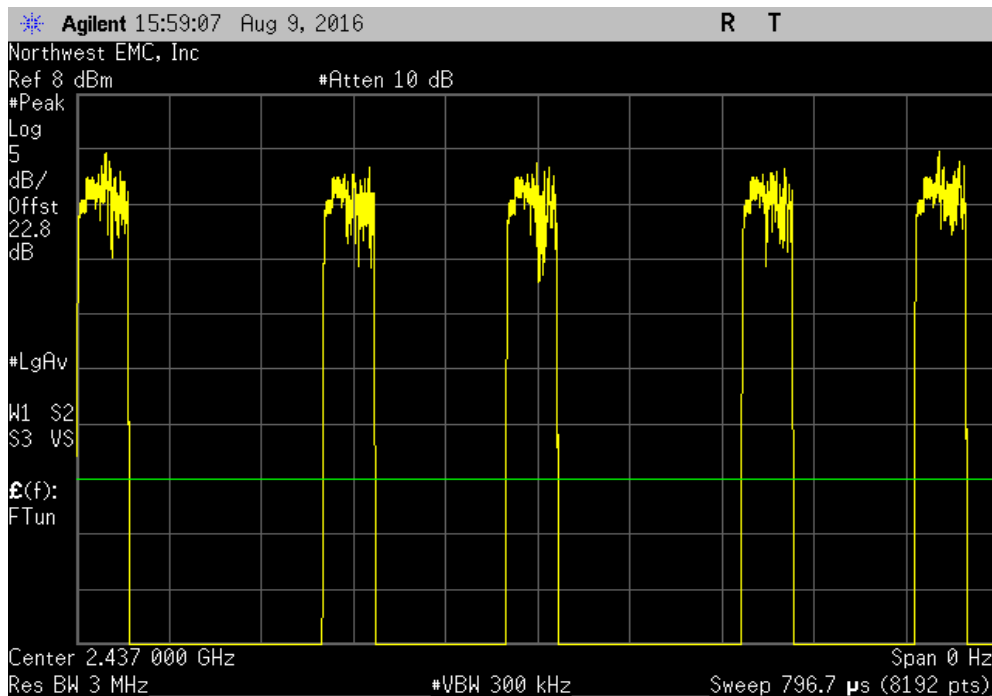


# DUTY CYCLE

2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
34.145 us	177.053 us	1	19.3	N/A	N/A	

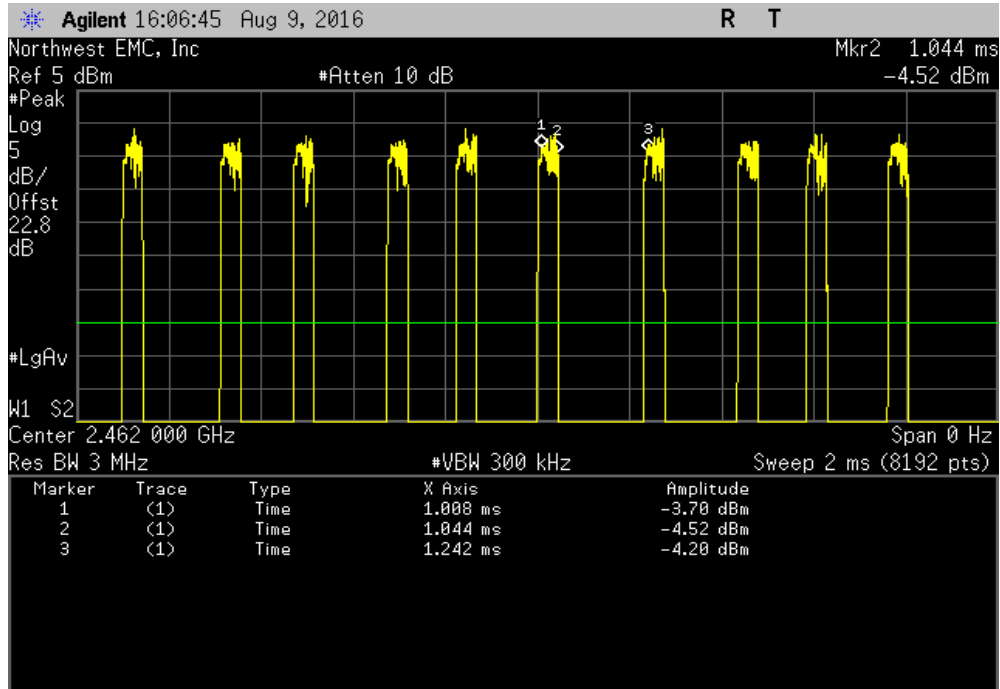


2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	5	N/A	N/A	N/A	

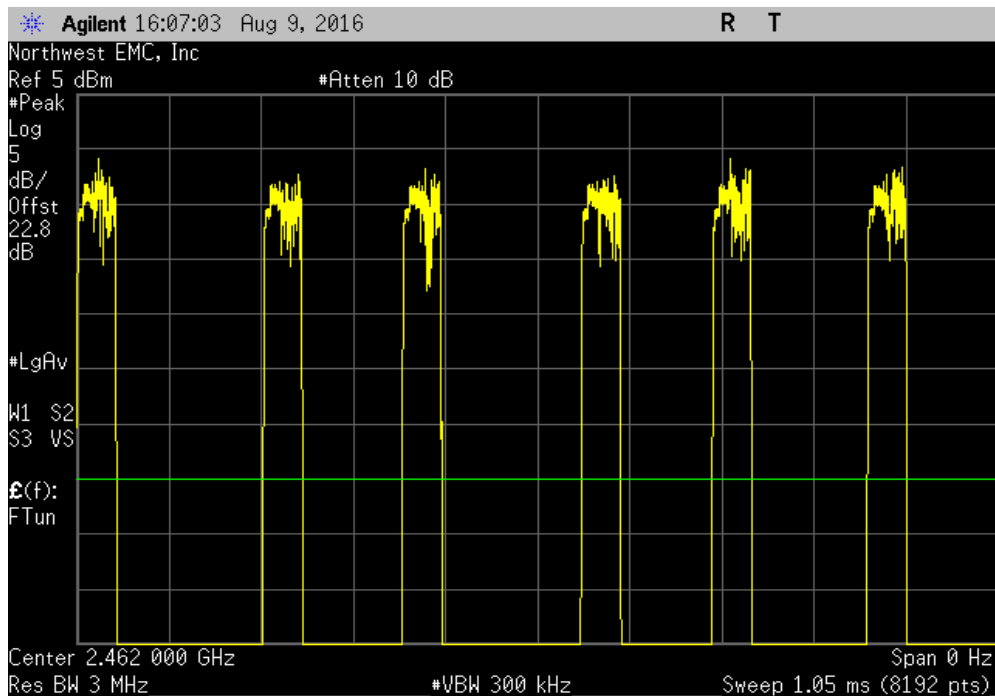


# DUTY CYCLE

2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
35.122 us	233.354 us	1	15.1	N/A	N/A	



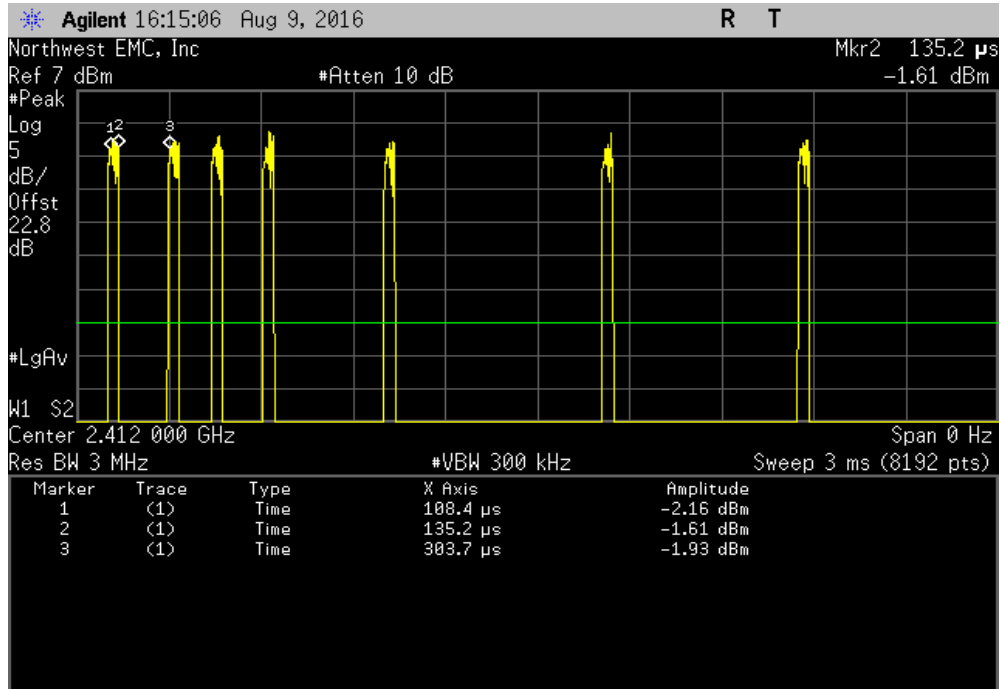
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	6	N/A	N/A	N/A	



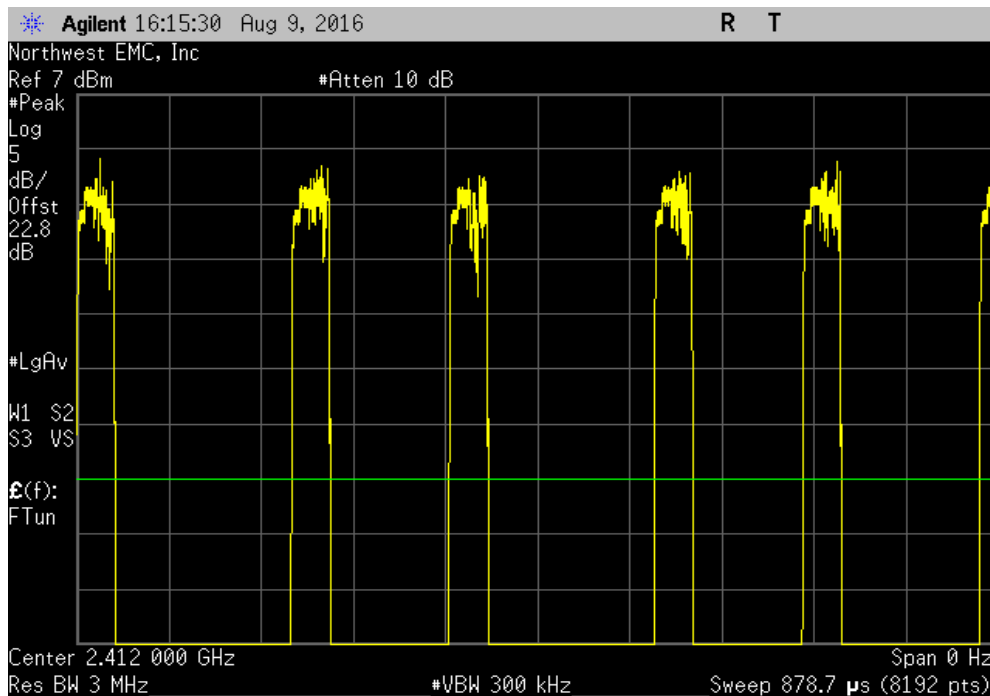


# DUTY CYCLE

2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
26.777 us	195.267 us	1	13.7	N/A	N/A	

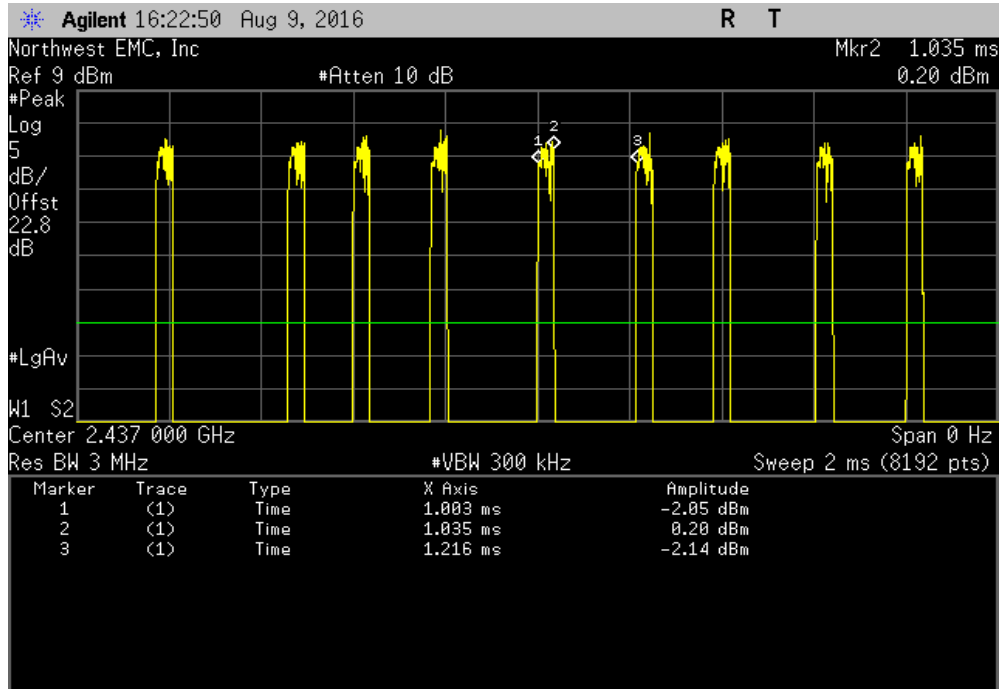


2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	6	N/A	N/A	N/A	

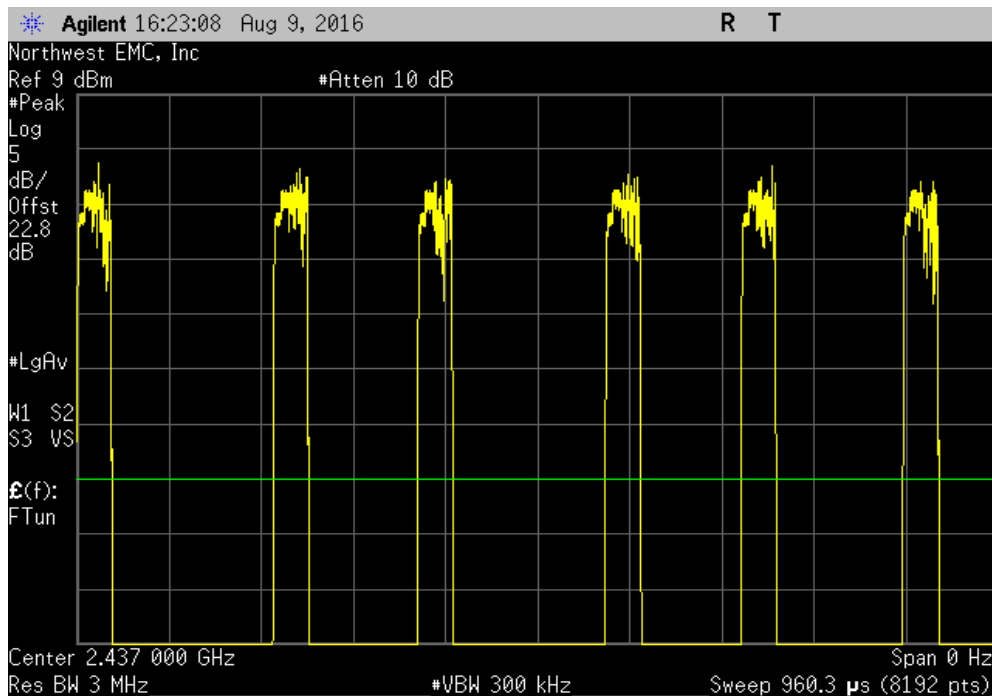


# DUTY CYCLE

2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
32.393 us	213.39 us	1	15.2	N/A	N/A	

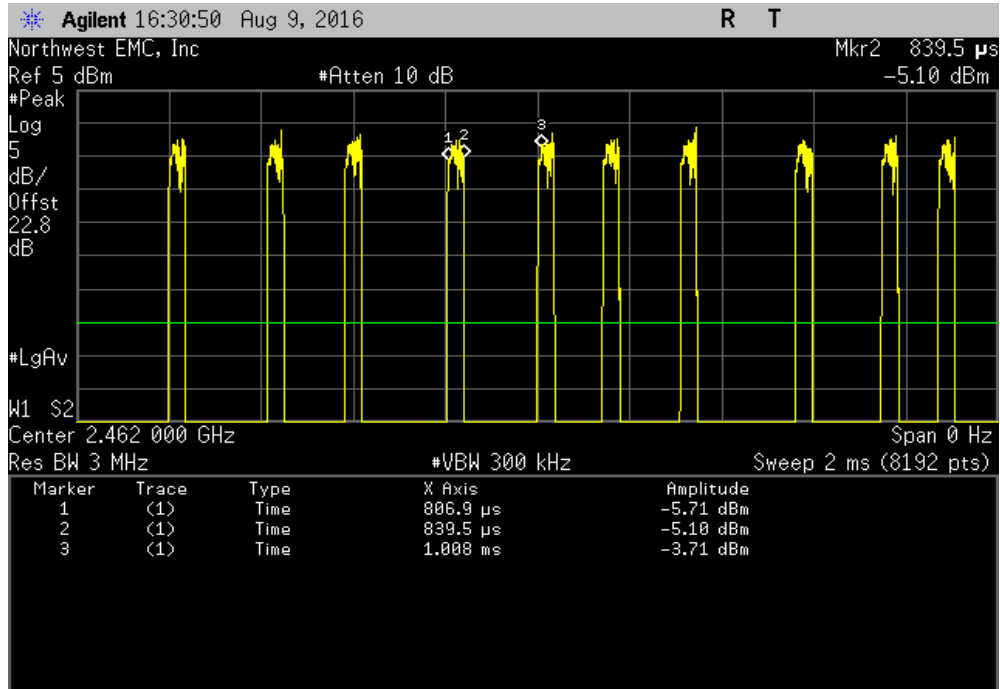


2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	6	N/A	N/A	N/A	

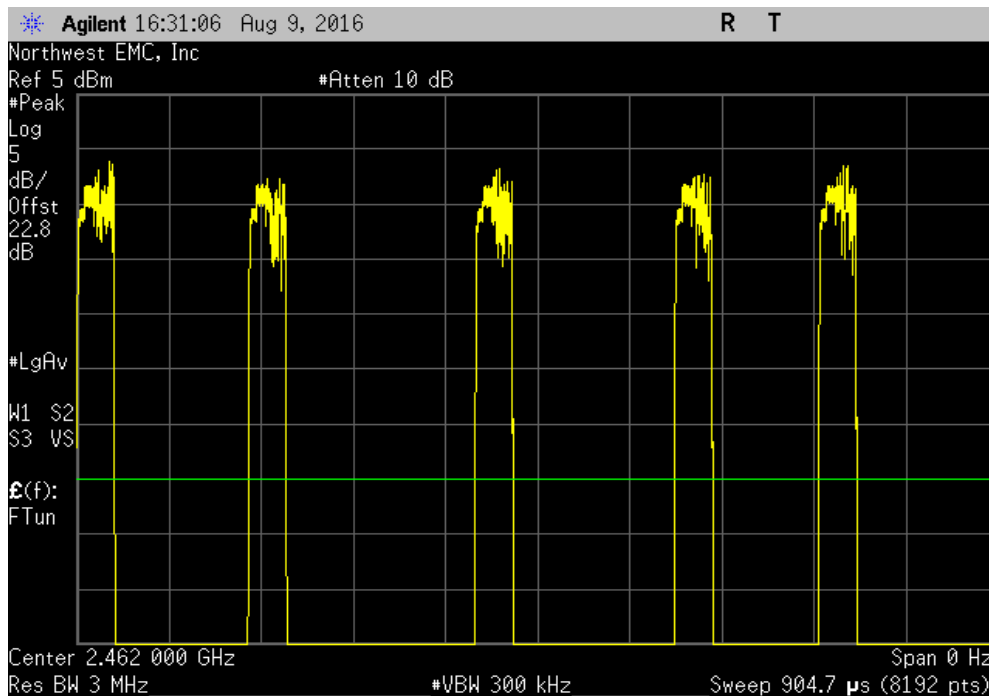


# DUTY CYCLE

2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
32.549 us	201.035 us	1	16.2	N/A	N/A	



2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit (%)	Results	
N/A	N/A	6	N/A	N/A	N/A	



# OCCUPIED BANDWIDTH

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

## TEST EQUIPMENT


Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	11/19/2015	11/19/2016
Generator - Signal	Keysight	N5182B	TFX	4/16/2015	4/16/2018
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Attenuator	Fairview Microwave	SA18E-20	TKS	4/4/2016	4/4/2017
Block - DC	Aeroflex	INMET 8535	AMO	4/4/2016	4/4/2017

## TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was set to the channels and modes listed in the datasheet.

The 6dB occupied bandwidth was measured using 100 kHz resolution bandwidth and 300 kHz video bandwidth. The 99.0% occupied bandwidth was also measured at the same time which can be needed during Output Power depending on the applicable method.

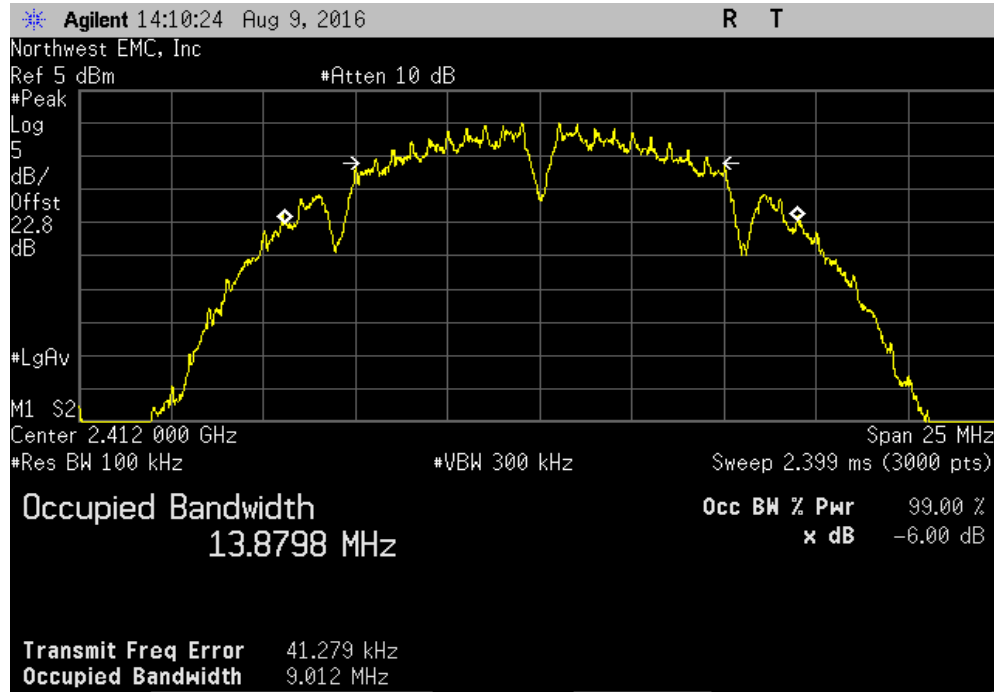
# OCCUPIED BANDWIDTH

EUT: BLEE		Work Order: AWAR0022	
Serial Number: None		Date: 08/09/16	
Customer: Awarepoint Corporation		Temperature: 23 °C	
Attendees: None		Humidity: 44.8% RH	
Project: None		Barometric Pres.: 1014 mbar	
Tested by: Mike Tran	Power: USB Powered	Job Site: OC13	
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2016		ANSI C63.10:2013	
COMMENTS			
Total reference level offset: DC Block + 20dB attenuator + RF Cable + Patch Cable = 22.75 dB. Power setting = 0.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	4	Signature 	
		Value	Limit (>) Result
2400 MHz - 2483.5 MHz Band			
802.11(b) 1 Mbps			
	Low Channel 1, 2412 MHz	9.012 MHz	500 kHz Pass
	Mid Channel 6, 2437 MHz	9.026 MHz	500 kHz Pass
	High Channel 11, 2462 MHz	9.003 MHz	500 kHz Pass
802.11(b) 11 Mbps			
	Low Channel 1, 2412 MHz	9.936 MHz	500 kHz Pass
	Mid Channel 6, 2437 MHz	9.595 MHz	500 kHz Pass
	High Channel 11, 2462 MHz	9.568 MHz	500 kHz Pass
802.11(g) 6 Mbps			
	Low Channel 1, 2412 MHz	14.946 MHz	500 kHz Pass
	Mid Channel 6, 2437 MHz	14.843 MHz	500 kHz Pass
	High Channel 11, 2462 MHz	14.579 MHz	500 kHz Pass
802.11(g) 36 Mbps			
	Low Channel 1, 2412 MHz	16.209 MHz	500 kHz Pass
	Mid Channel 6, 2437 MHz	16.261 MHz	500 kHz Pass
	High Channel 11, 2462 MHz	16.323 MHz	500 kHz Pass
802.11(g) 54 Mbps			
	Low Channel 1, 2412 MHz	16.202 MHz	500 kHz Pass
	Mid Channel 6, 2437 MHz	16.259 MHz	500 kHz Pass
	High Channel 11, 2462 MHz	15.846 MHz	500 kHz Pass

# OCCUPIED BANDWIDTH

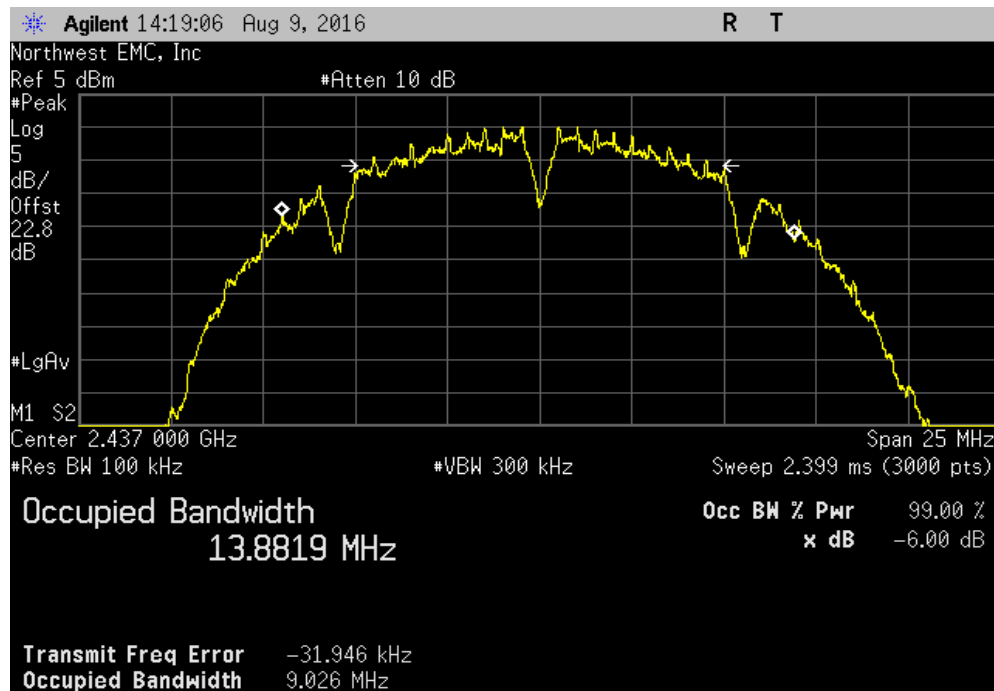
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz

	Value	Limit (>)	Result
	9.012 MHz	500 kHz	Pass



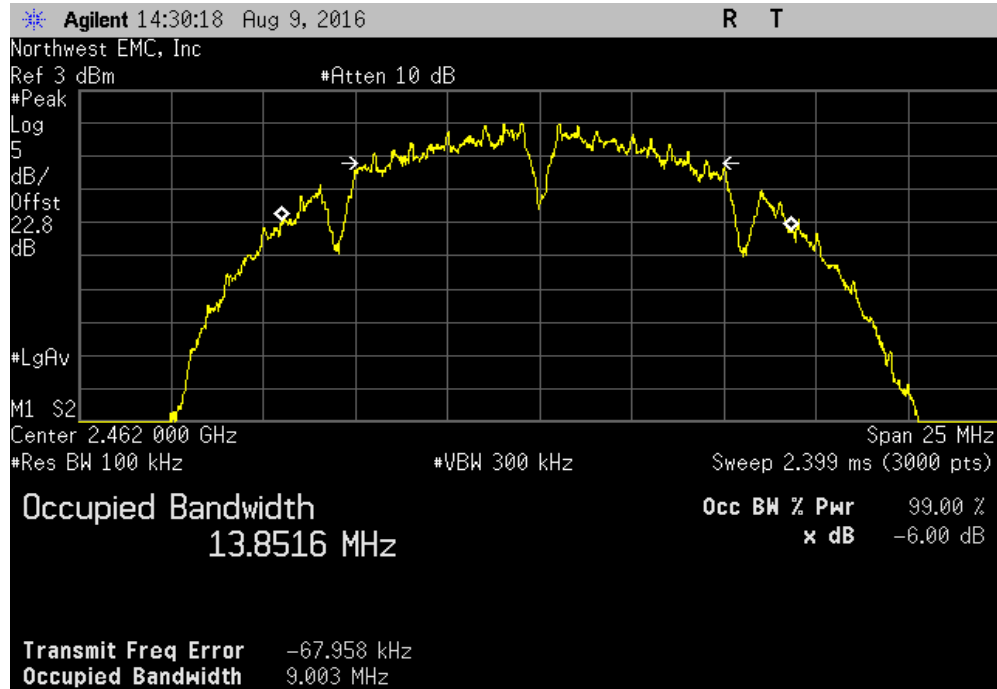
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz

	Value	Limit (>)	Result
	9.026 MHz	500 kHz	Pass

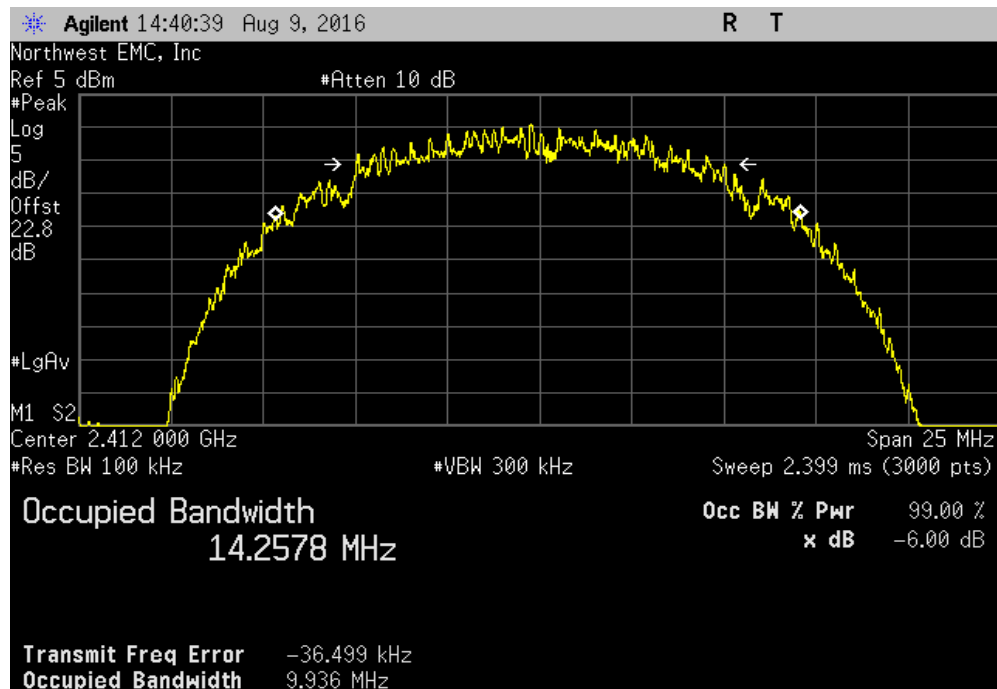


# OCCUPIED BANDWIDTH

2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
				Value	Limit	Result
				9.003 MHz	500 kHz	Pass



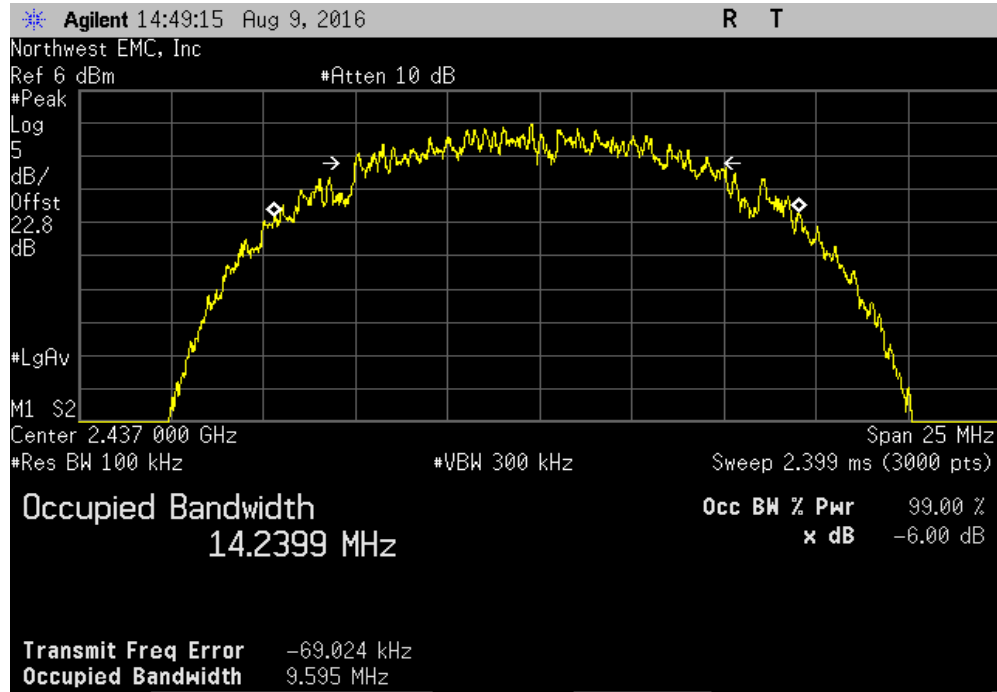
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz						
				Value	Limit	Result
				9.936 MHz	500 kHz	Pass



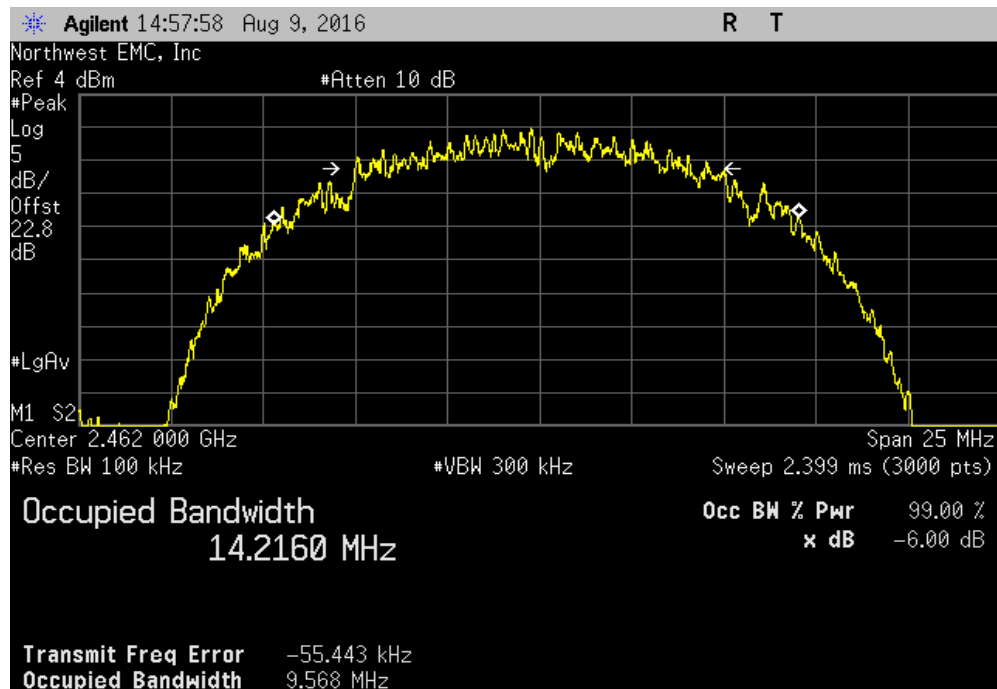


# OCCUPIED BANDWIDTH

2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
				Value	Limit (>)	Result
				9.595 MHz	500 kHz	Pass



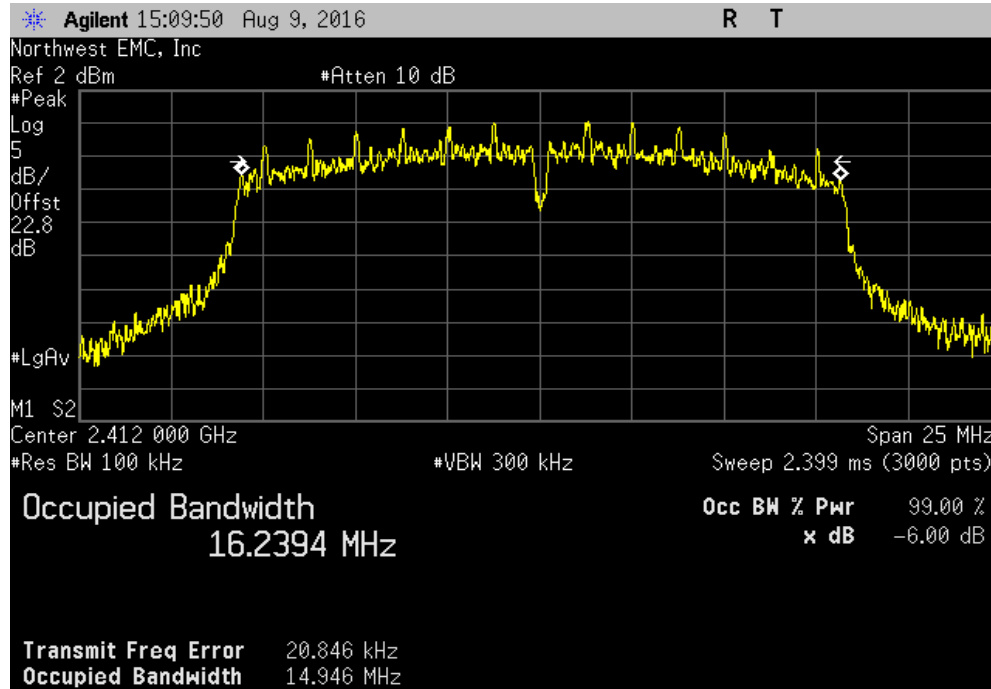
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz						
				Value	Limit (>)	Result
				9.568 MHz	500 kHz	Pass



# OCCUPIED BANDWIDTH

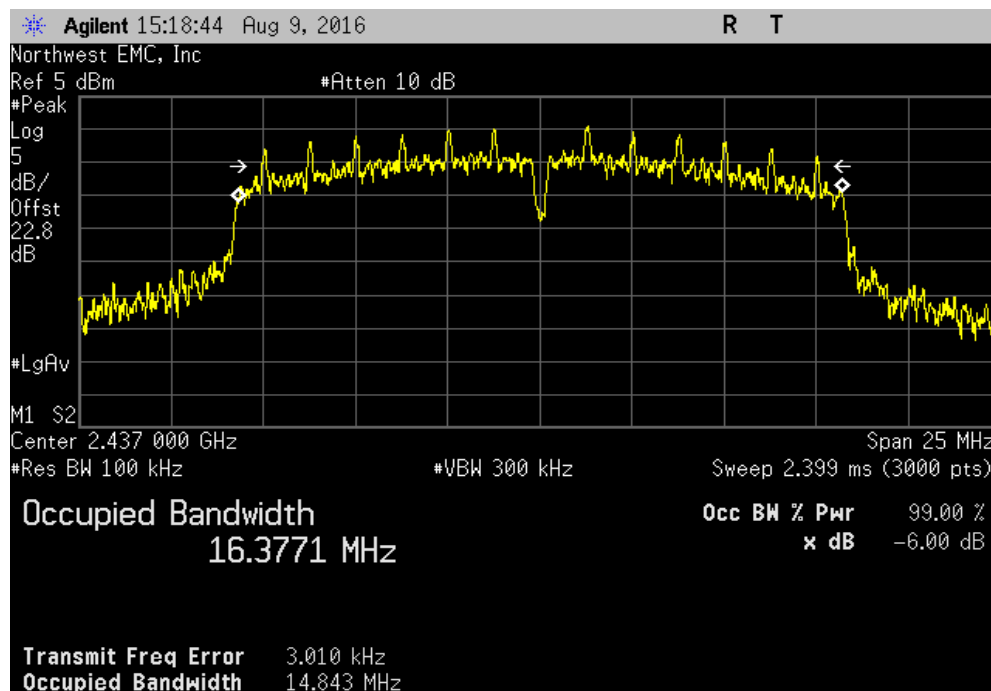
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz

	Value	Limit	Result
	14.946 MHz	(>) 500 kHz	Pass



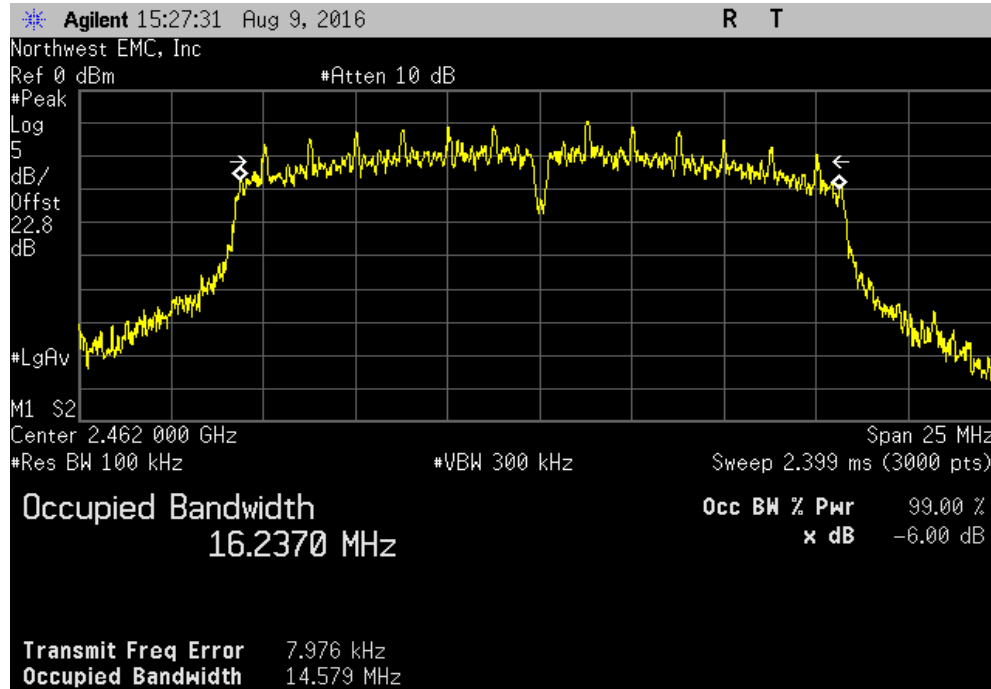
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz

	Value	Limit	Result
	14.843 MHz	(>) 500 kHz	Pass

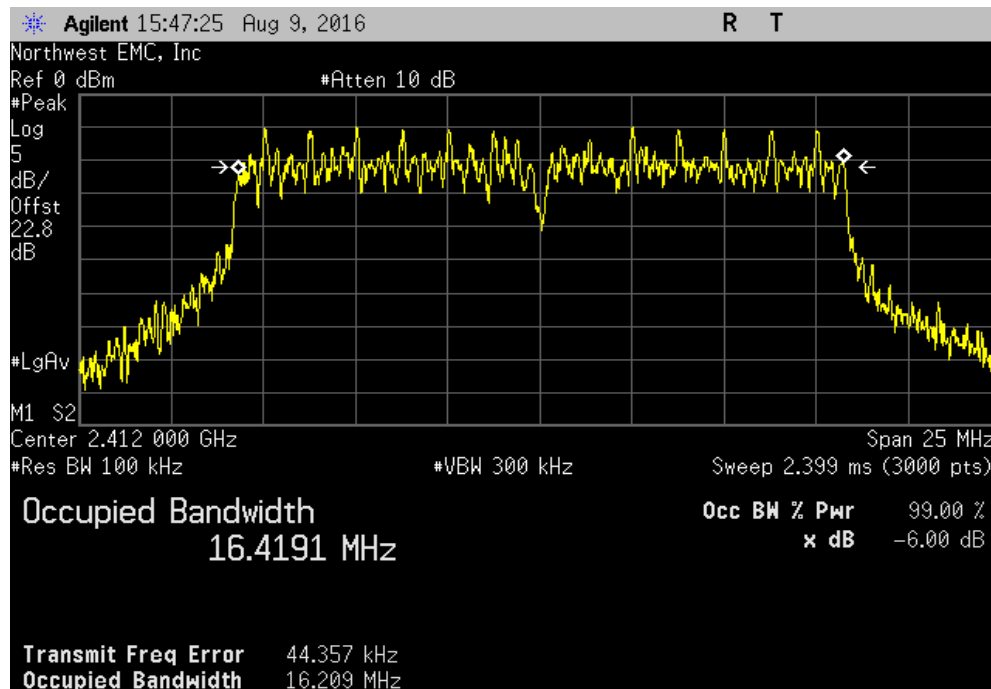


# OCCUPIED BANDWIDTH

2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
				Value	Limit	Result
				14.579 MHz	(> 500 kHz	Pass

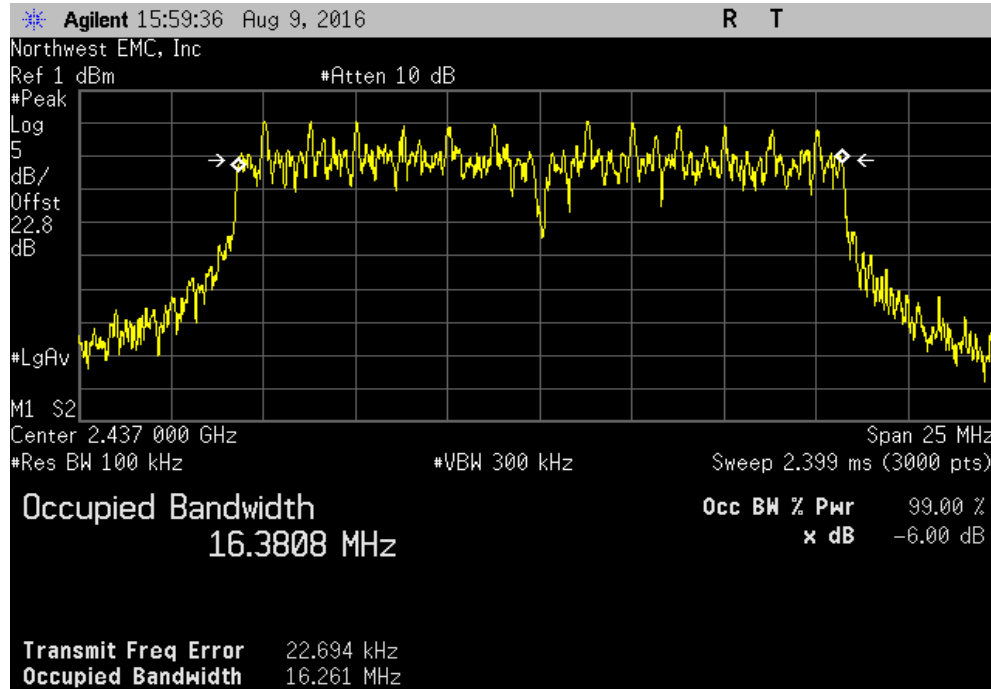


2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz						
				Value	Limit	Result
				16.209 MHz	(> 500 kHz	Pass

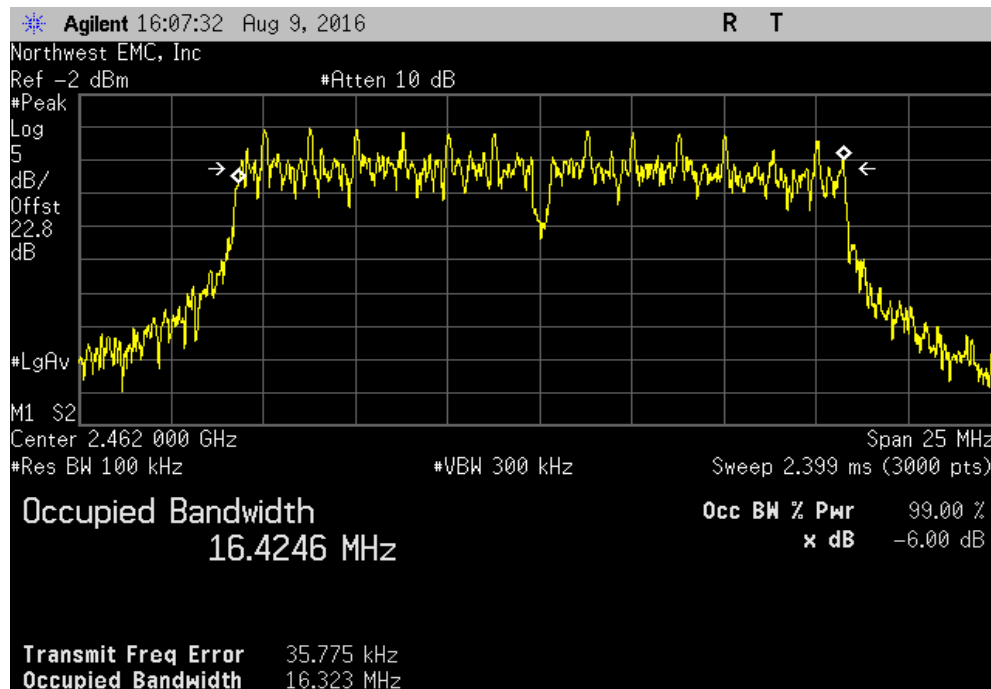


# OCCUPIED BANDWIDTH

2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
				Value	Limit	Result
				16.261 MHz	500 kHz	Pass

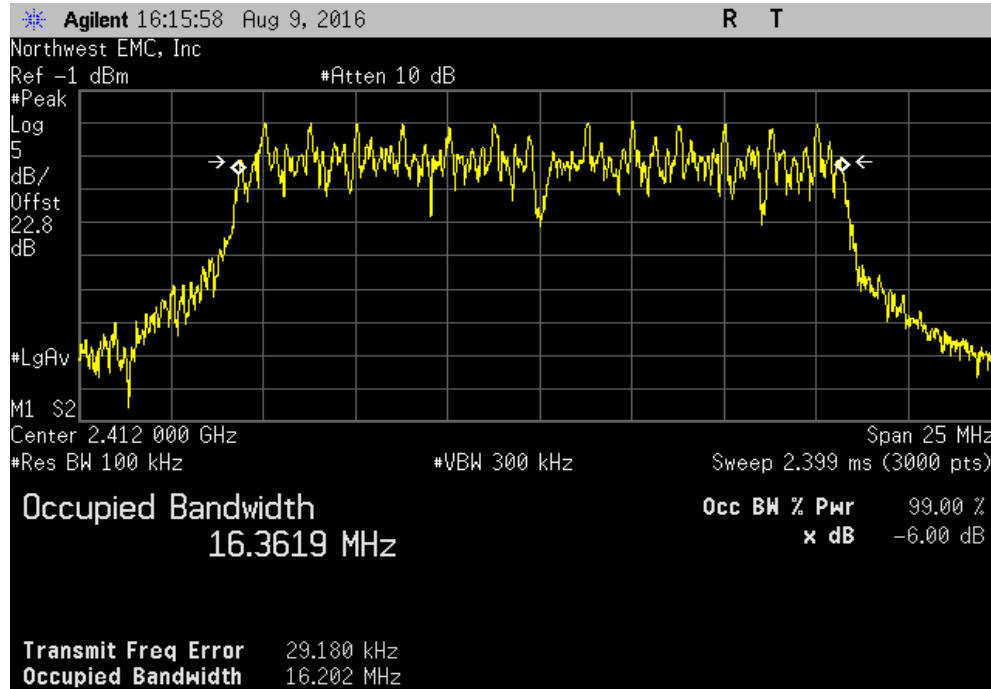


2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz						
				Value	Limit	Result
				16.323 MHz	500 kHz	Pass

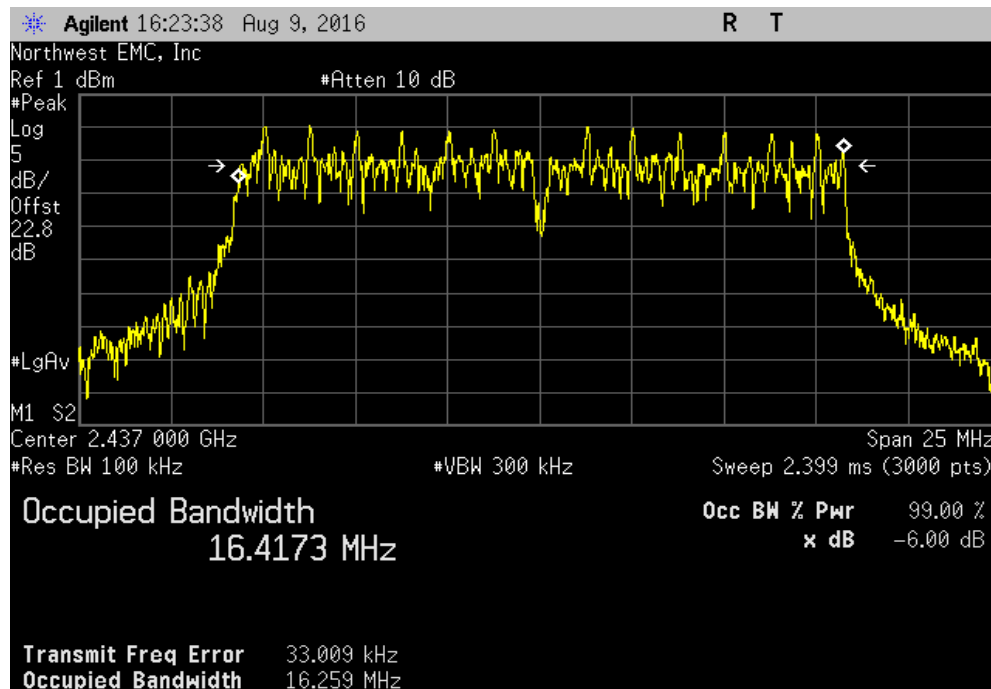


# OCCUPIED BANDWIDTH

2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
				Value	Limit	Result
				16.202 MHz	500 kHz	Pass

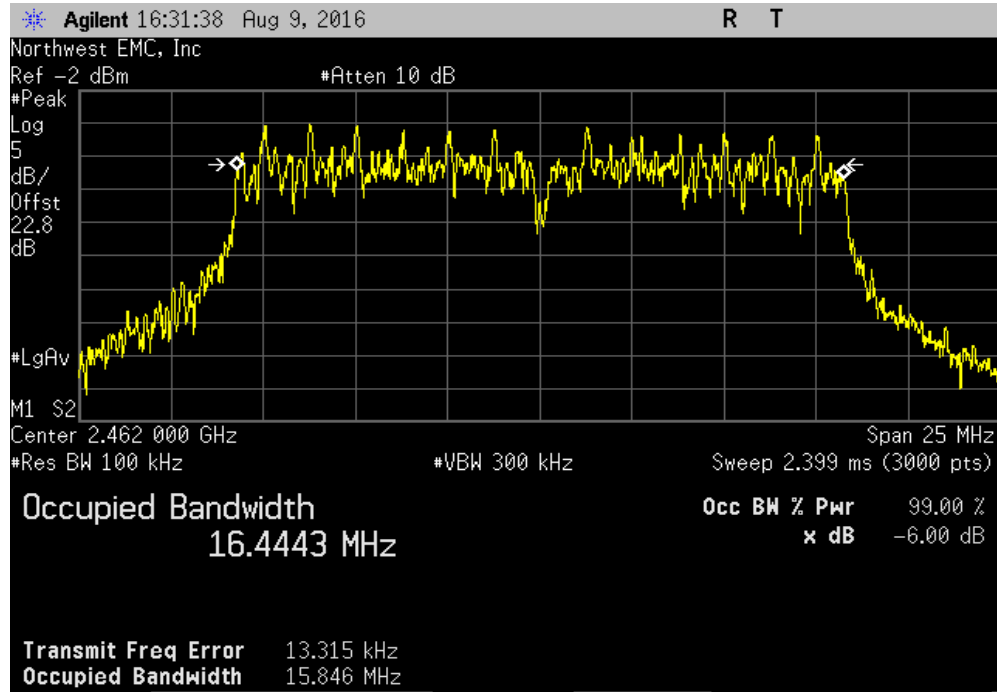


2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz						
				Value	Limit	Result
				16.259 MHz	500 kHz	Pass



# OCCUPIED BANDWIDTH

2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
				Value	Limit	Result
				(>)		
				15.846 MHz	500 kHz	Pass



# OUTPUT POWER

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

## TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	11/19/2015	11/19/2016
Generator - Signal	Keysight	N5182B	TFX	4/16/2015	4/16/2018
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Attenuator	Fairview Microwave	SA18E-20	TKS	4/4/2016	4/4/2017
Block - DC	Aeroflex	INMET 8535	AMO	4/4/2016	4/4/2017

## TEST DESCRIPTION


The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The fundamental emission output power (maximum average conducted output power) was measured using the channels and modes as called out on the following data sheets. The transmit power was set to its default maximum.

Prior to measuring output power; the emission bandwidth (B) and the transmission pulse duration (T) were measured. Both are required to determine the method of measuring Maximum Conducted Output Power. The transmission pulse duration (T) was measured using a zero span on the spectrum analyzer to see the pulses in the time domain.

The method AVGSA-2 in section 11.9.2.2.4 of ANSI C63.10:2013 was used to make the measurement. This method uses trace averaging across ON and OFF times of the EUT transmissions in the spectrum analyzer channel power function using an RMS detector. Following the measurement a duty cycle correction was applied by adding  $[10 \log (1 / D)]$ , where D is the duty cycle, to the measured power to compute the average power during the actual transmission times.

**De Facto EIRP Limit:** The EUT meets the de facto EIRP limit of +36 dBm.

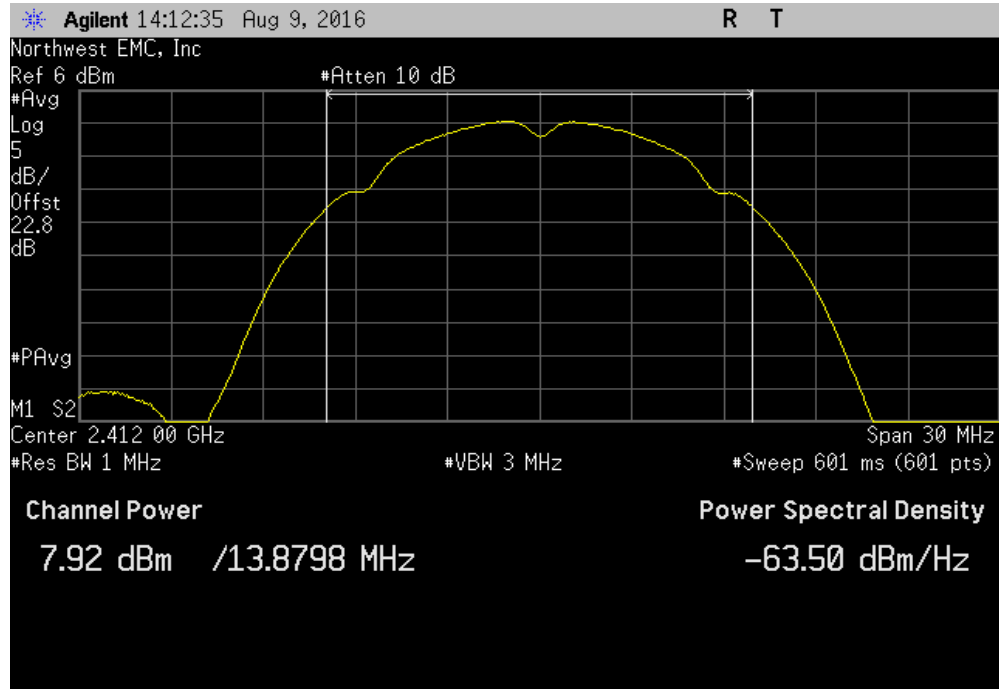
**NORTHWEST  
EMC**

EUT: BLEE			Work Order: AWAR0022			
Serial Number: None			Date: 08/09/16			
Customer: Awarepoint Corporation			Temperature: 23 °C			
Attendees: None			Humidity: 44.8% RH			
Project: None			Barometric Pres.: 1014 mbar			
Tested by: Mike Tran		Power: USB Powered	Job Site: OC13			
TEST SPECIFICATIONS			Test Method			
FCC 15.247:2016			ANSI C63.10:2013			
COMMENTS						
Total reference level offset: DC Block + 20dB attenuator + RF Cable + Patch Cable = 22.75 dB. Power setting = 0.						
DEVIATIONS FROM TEST STANDARD						
None						
Configuration #	4					
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results
2400 MHz - 2483.5 MHz Band						
802.11(b) 1 Mbps						
Low Channel 1, 2412 MHz		7.92	1.7	9.6	30	Pass
Mid Channel 6, 2437 MHz		7.472	2.5	9.9	30	Pass
High Channel 11, 2462 MHz		5.703	1.6	7.3	30	Pass
802.11(b) 11 Mbps						
Low Channel 1, 2412 MHz		6.064	3.9	9.9	30	Pass
Mid Channel 6, 2437 MHz		6.638	3.9	10.6	30	Pass
High Channel 11, 2462 MHz		4.43	3.4	7.8	30	Pass
802.11(g) 6 Mbps						
Low Channel 1, 2412 MHz		2.579	4.2	6.7	30	Pass
Mid Channel 6, 2437 MHz		4.941	3.3	8.2	30	Pass
High Channel 11, 2462 MHz		0.28	2.5	2.8	30	Pass
802.11(g) 36 Mbps						
Low Channel 1, 2412 MHz		-4.763	8.4	3.6	30	Pass
Mid Channel 6, 2437 MHz		-3.501	7.1	3.6	30	Pass
High Channel 11, 2462 MHz		-7.324	8.2	0.9	30	Pass
802.11(g) 54 Mbps						
Low Channel 1, 2412 MHz		-6.468	8.6	2.2	30	Pass
Mid Channel 6, 2437 MHz		-4.575	8.2	3.6	30	Pass
High Channel 11, 2462 MHz		-8.131	7.9	-0.2	30	Pass

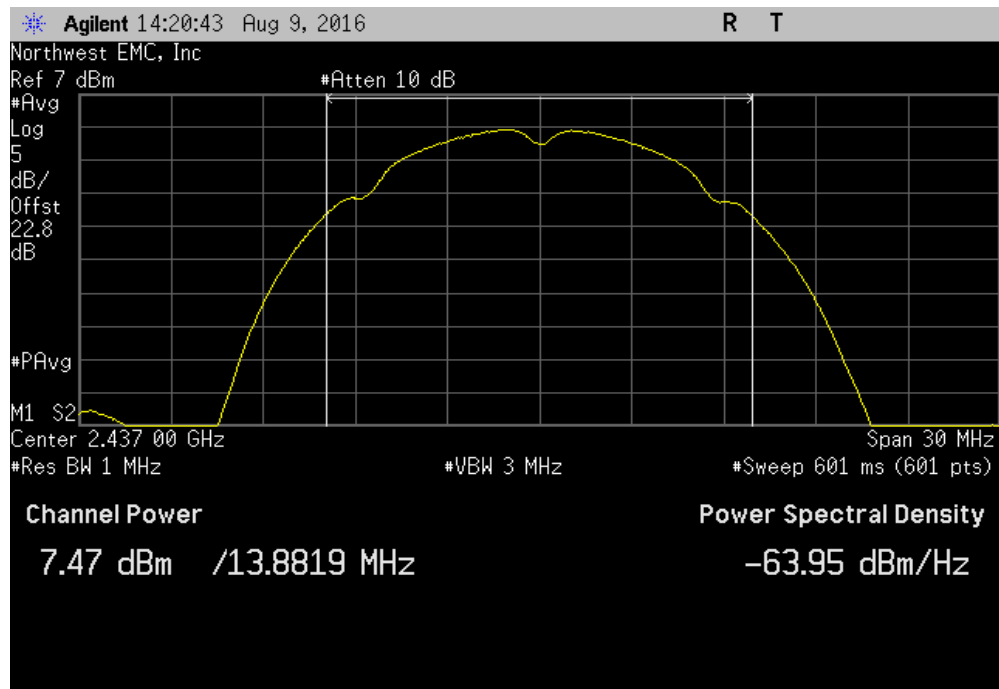


# OUTPUT POWER

2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
7.92	1.7	9.6	30	Pass		

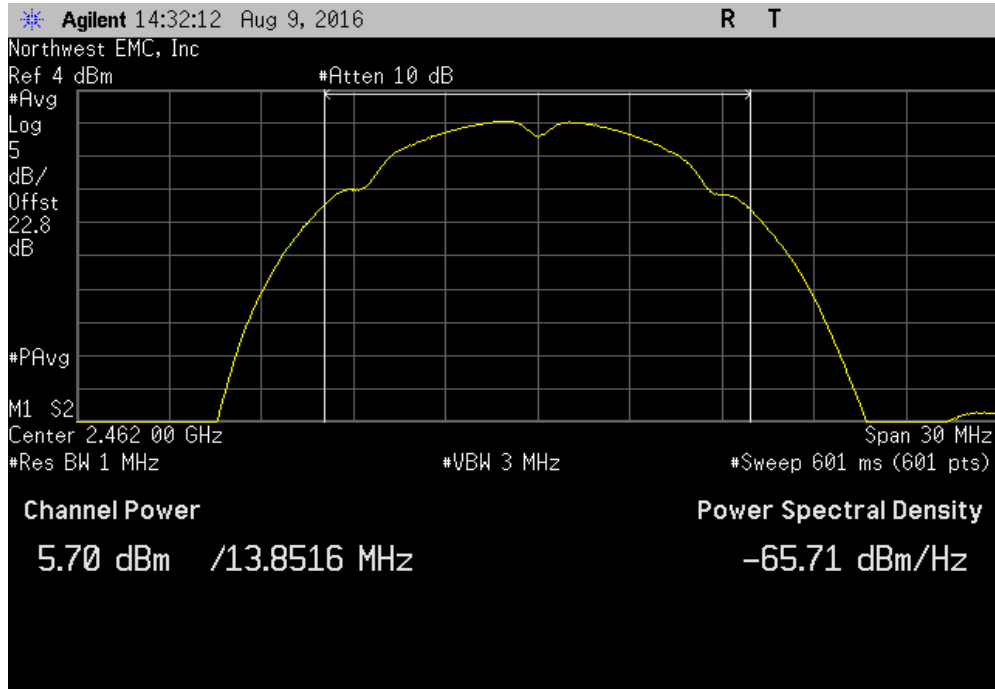


2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
7.472	2.5	9.9	30	Pass		

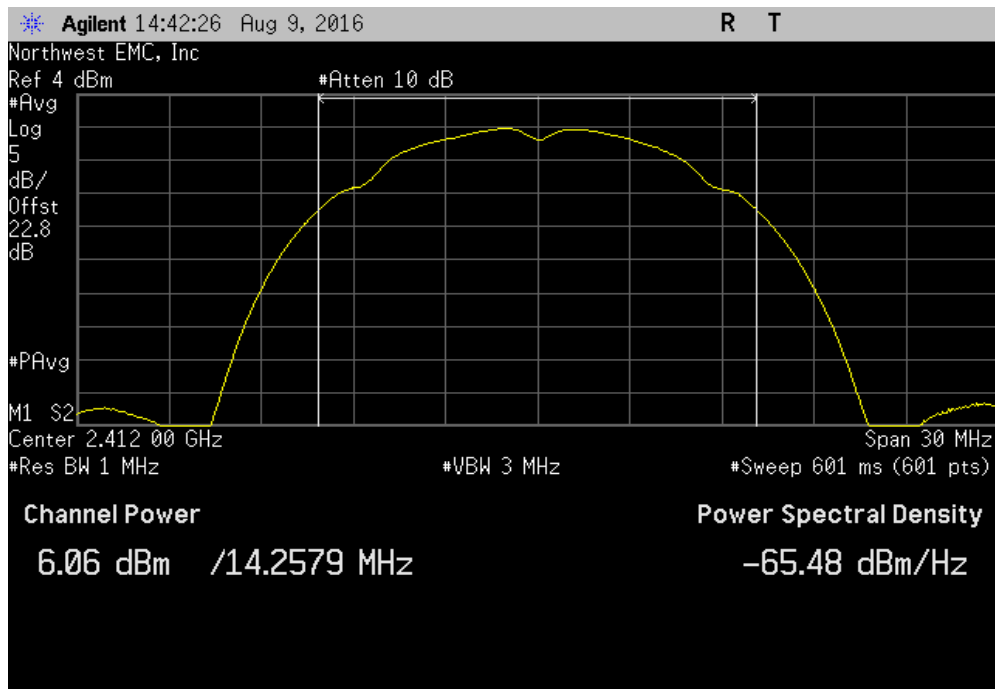


# OUTPUT POWER

2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
5.703	1.6	7.3	30	Pass		

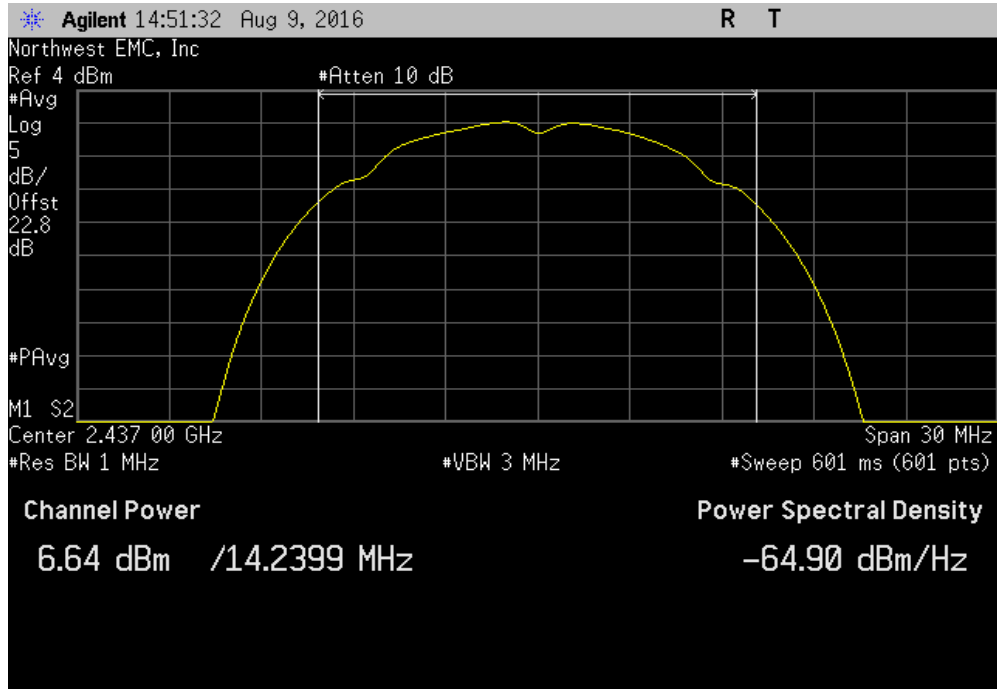


2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
6.064	3.9	9.9	30	Pass		

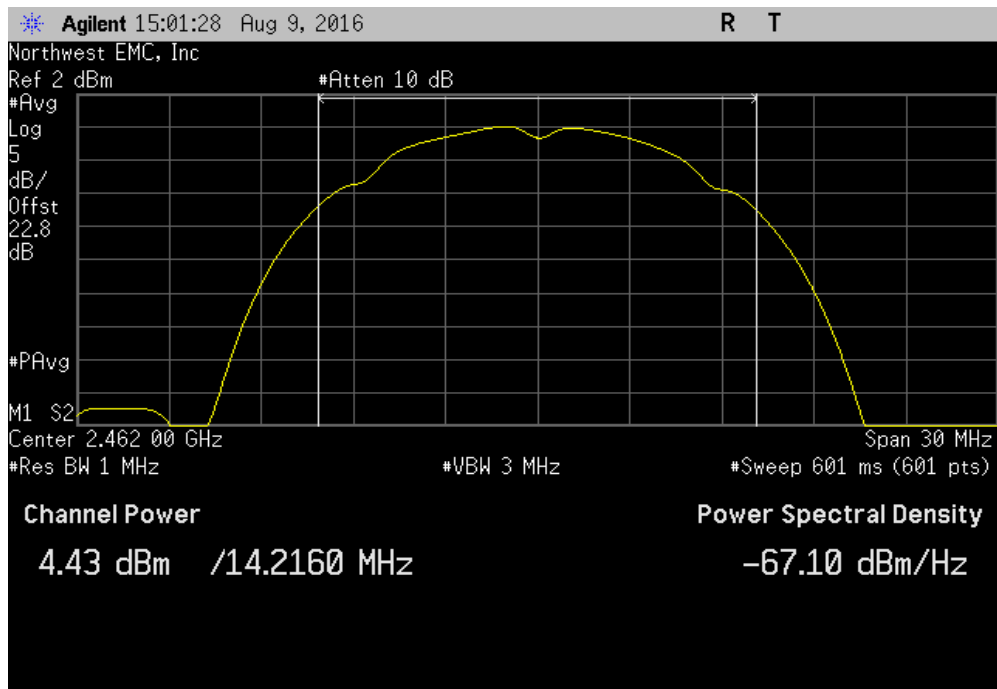


# OUTPUT POWER

2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
Avg Cond	Duty Cycle		Value	Limit	Results	
Pwr (dBm)	Factor (dB)		(dBm)	(dBm)		
6.638	3.9		10.6	30	Pass	

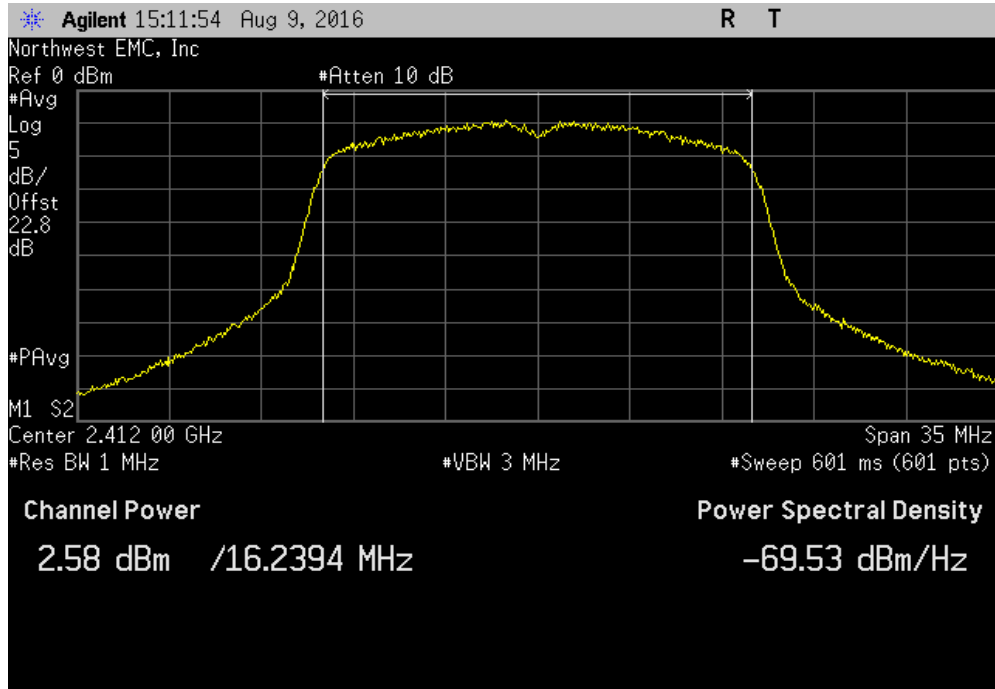


2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz						
Avg Cond	Duty Cycle		Value	Limit	Results	
Pwr (dBm)	Factor (dB)		(dBm)	(dBm)		
4.43	3.4		7.8	30	Pass	

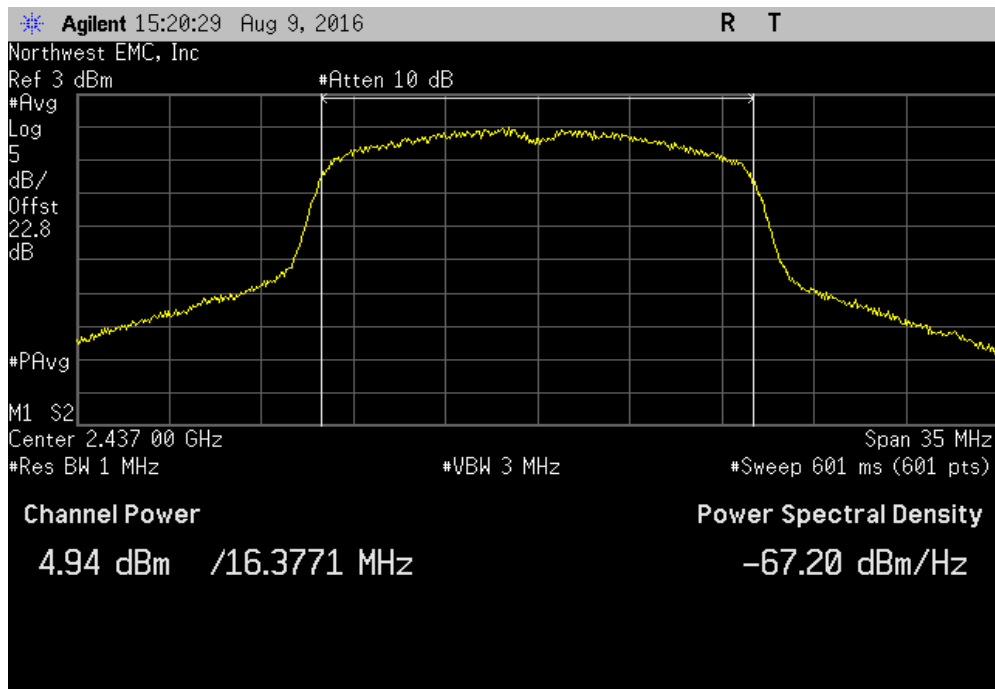


# OUTPUT POWER

2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
2.579	4.2	6.7	30	Pass		

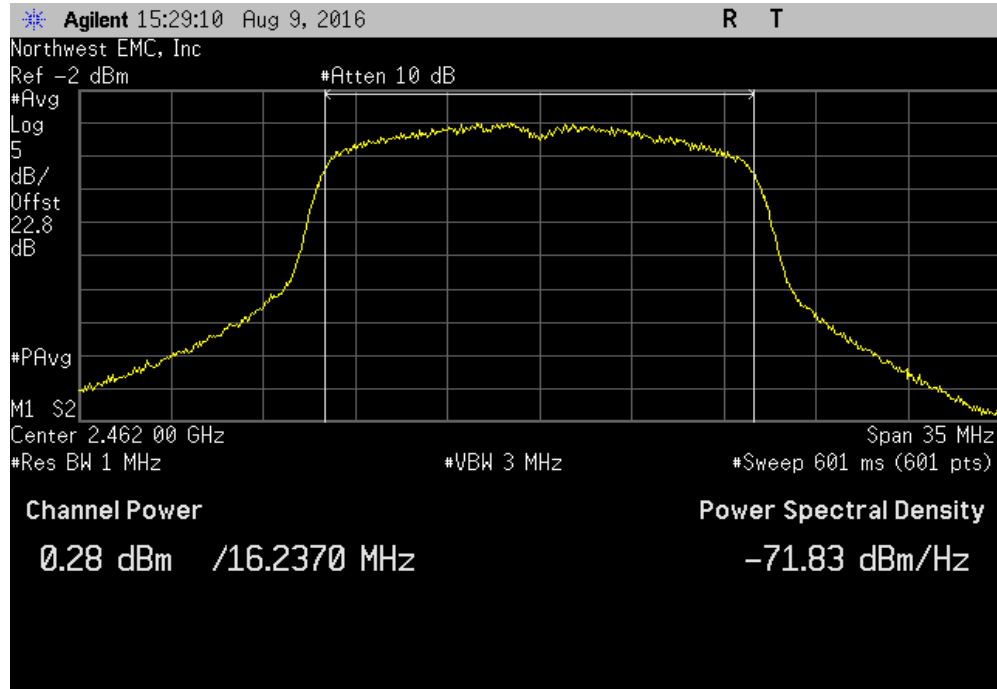


2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
4.941	3.3	8.2	30	Pass		

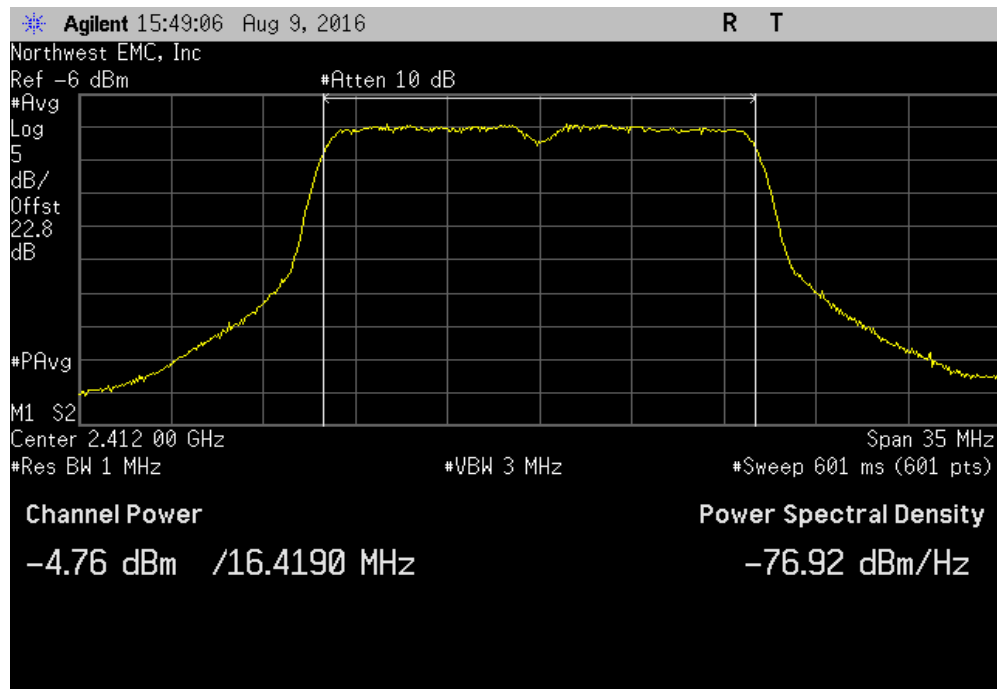


# OUTPUT POWER

2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
0.28	2.5	2.8	30	Pass		

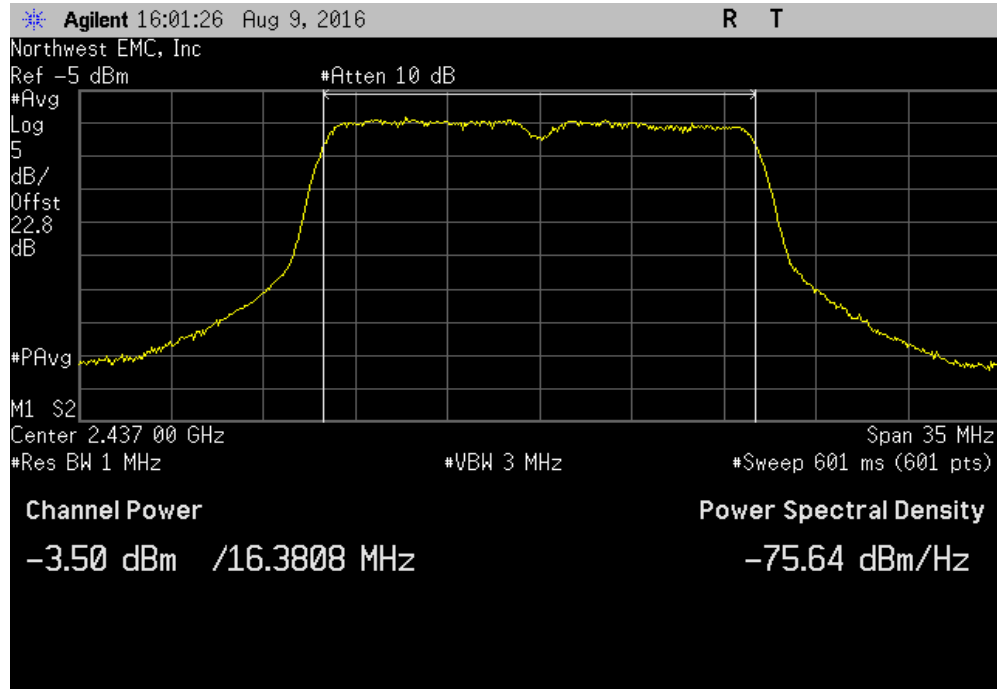


2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
-4.763	8.4	3.6	30	Pass		

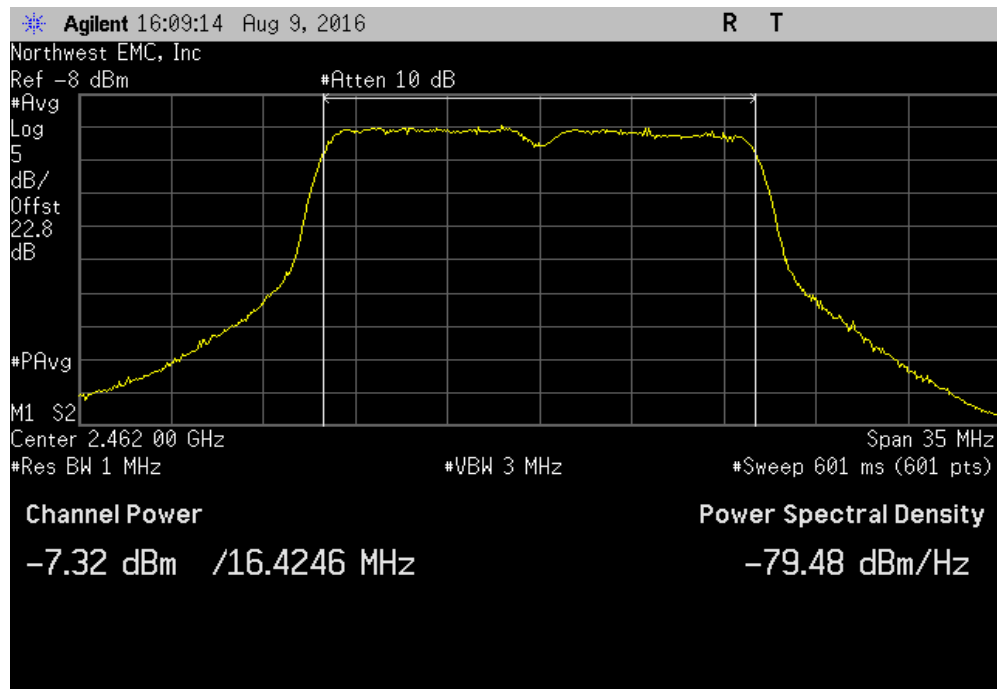


# OUTPUT POWER

2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
-3.501	7.1	3.6	30	Pass		

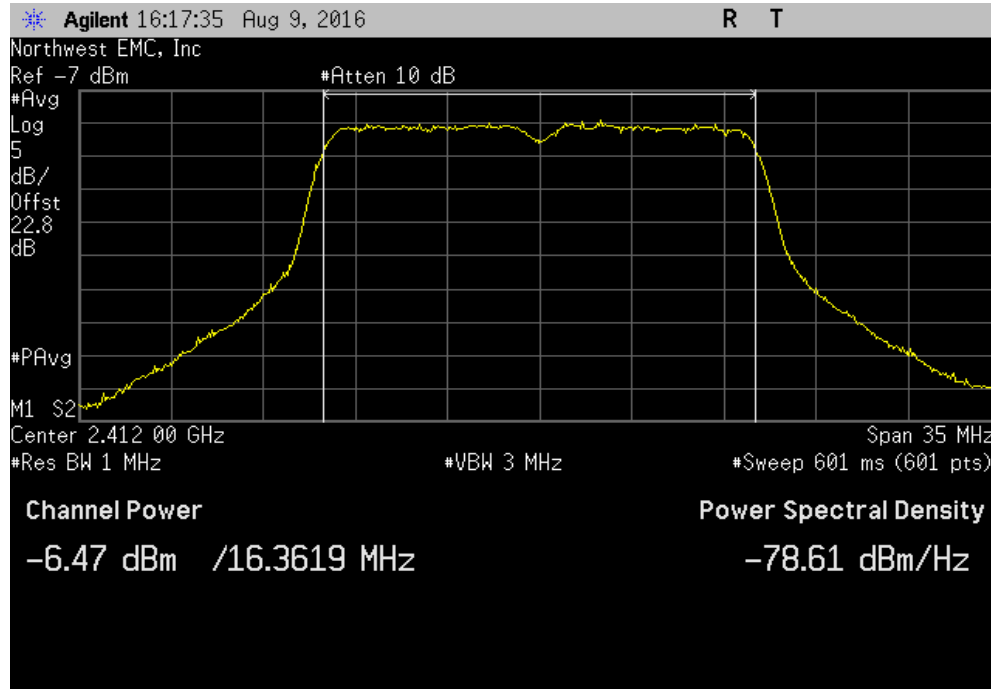


2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
-7.324	8.2	0.9	30	Pass		

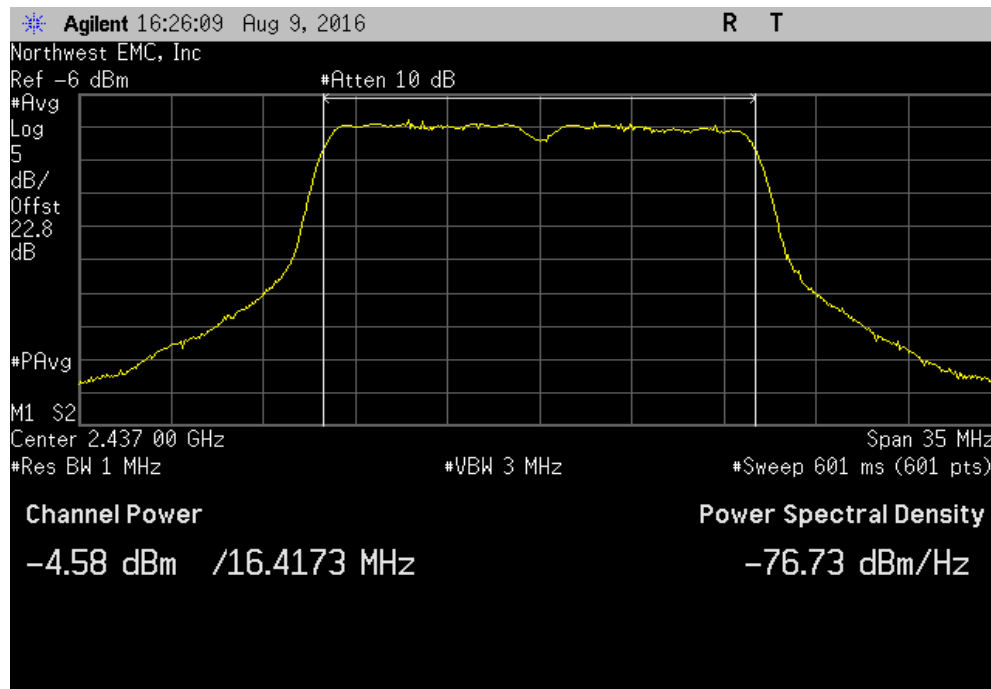


# OUTPUT POWER

2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
-6.468	8.6	2.2	30	Pass		

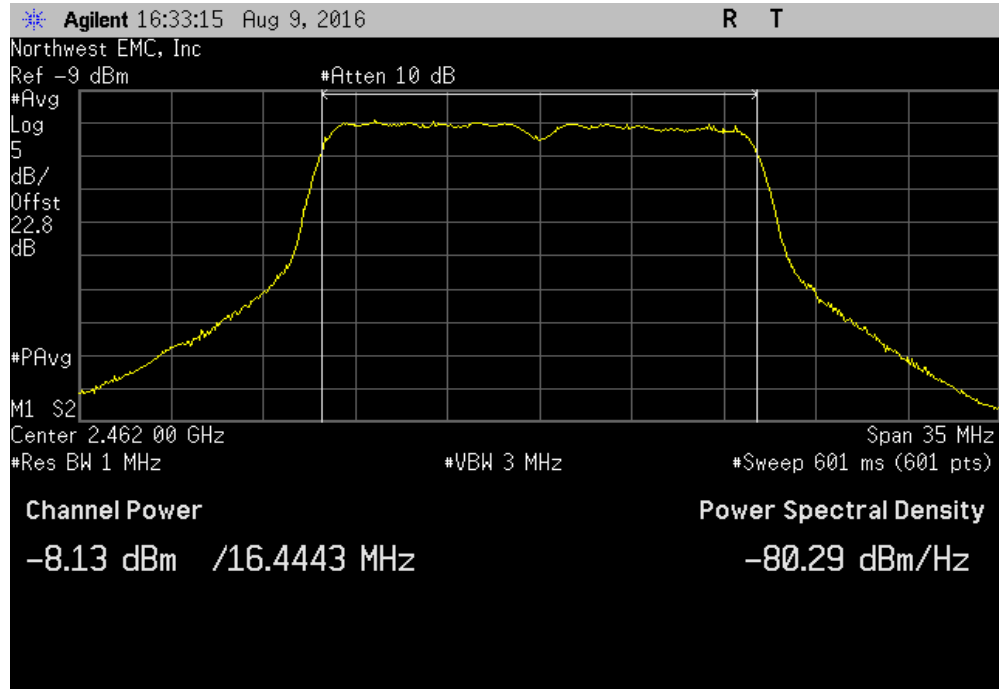


2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
-4.575	8.2	3.6	30	Pass		



# OUTPUT POWER

2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
Avg Cond	Duty Cycle	Value	Limit	Results		
Pwr (dBm)	Factor (dB)	(dBm)	(dBm)			
-8.131	7.9	-0.2	30	Pass		





# POWER SPECTRAL DENSITY

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

## TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	11/19/2015	11/19/2016
Generator - Signal	Keysight	N5182B	TFX	4/16/2015	4/16/2018
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Attenuator	Fairview Microwave	SA18E-20	TKS	4/4/2016	4/4/2017
Block - DC	Aeroflex	INMET 8535	AMO	4/4/2016	4/4/2017

## TEST DESCRIPTION


The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The maximum power spectral density measurements was measured using the channels and modes as called out on the following data sheets.

Per the procedure outlined in ANSI C63.10 the peak power spectral density was measured in a 3 kHz RBW.

# POWER SPECTRAL DENSITY

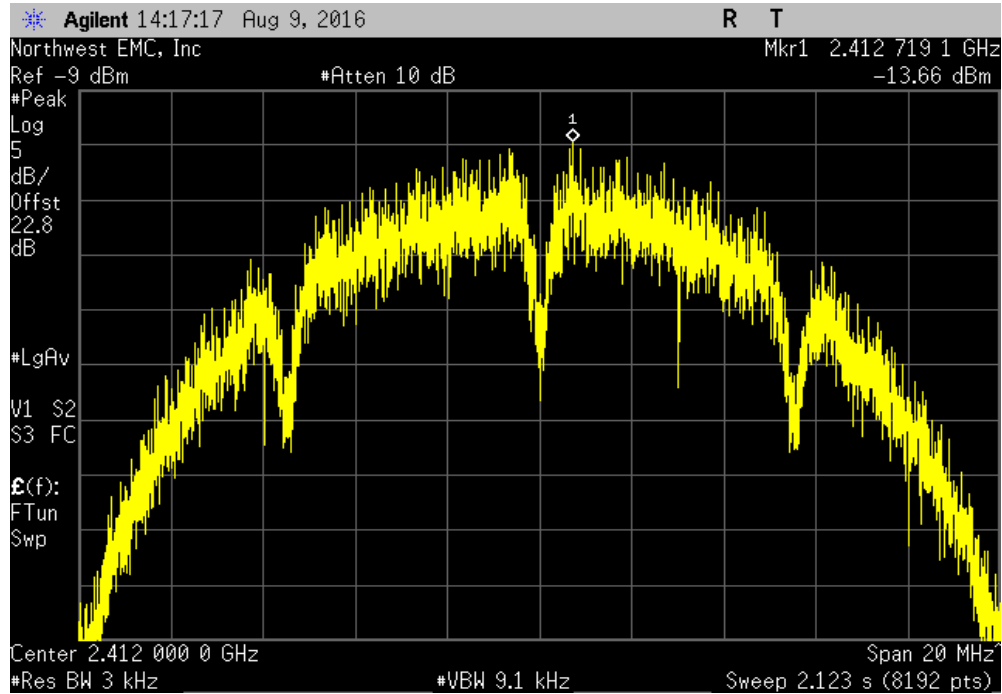


XMR 2016.05.06

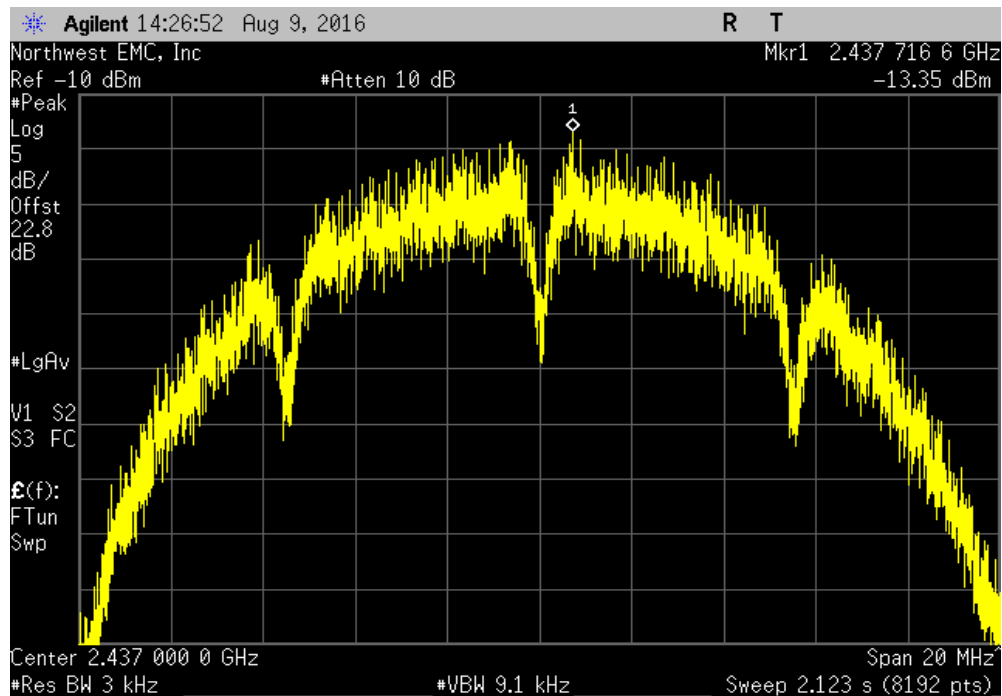
EUT: BLEE		Work Order: AWAR0022	
Serial Number: None		Date: 08/09/16	
Customer: Awarepoint Corporation		Temperature: 23 °C	
Attendees: None		Humidity: 44.8% RH	
Project: None		Barometric Pres.: 1014 mbar	
Tested by: Mark Baytan		Power: USB Powered	
		Job Site: OC13	
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2016		ANSI C63.10:2013	
COMMENTS			
Total reference level offset: DC Block + 20dB attenuator + RF Cable + Patch Cable = 22.75 dB. Power setting = 0.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	4	Signature 	
		Value dBm/3kHz	Limit < dBm/3kHz
2400 MHz - 2483.5 MHz Band			
802.11(b) 1 Mbps			
	Low Channel 1, 2412 MHz	-13.659	8
	Mid Channel 6, 2437 MHz	-13.352	8
	High Channel 11, 2462 MHz	-15.62	8
802.11(b) 11 Mbps			
	Low Channel 1, 2412 MHz	-13.155	8
	Mid Channel 6, 2437 MHz	-12.771	8
	High Channel 11, 2462 MHz	-15.043	8
802.11(g) 6 Mbps			
	Low Channel 1, 2412 MHz	-18.919	8
	Mid Channel 6, 2437 MHz	-16.32	8
	High Channel 11, 2462 MHz	-21.383	8
802.11(g) 36 Mbps			
	Low Channel 1, 2412 MHz	-24.292	8
	Mid Channel 6, 2437 MHz	-22.704	8
	High Channel 11, 2462 MHz	-26.069	8
802.11(g) 54 Mbps			
	Low Channel 1, 2412 MHz	-24.472	8
	Mid Channel 6, 2437 MHz	-22.111	8
	High Channel 11, 2462 MHz	-25.672	8

# POWER SPECTRAL DENSITY

2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
	Value	Limit				
	dBm/3kHz	< dBm/3kHz	Results			
	-13.659	8	Pass			

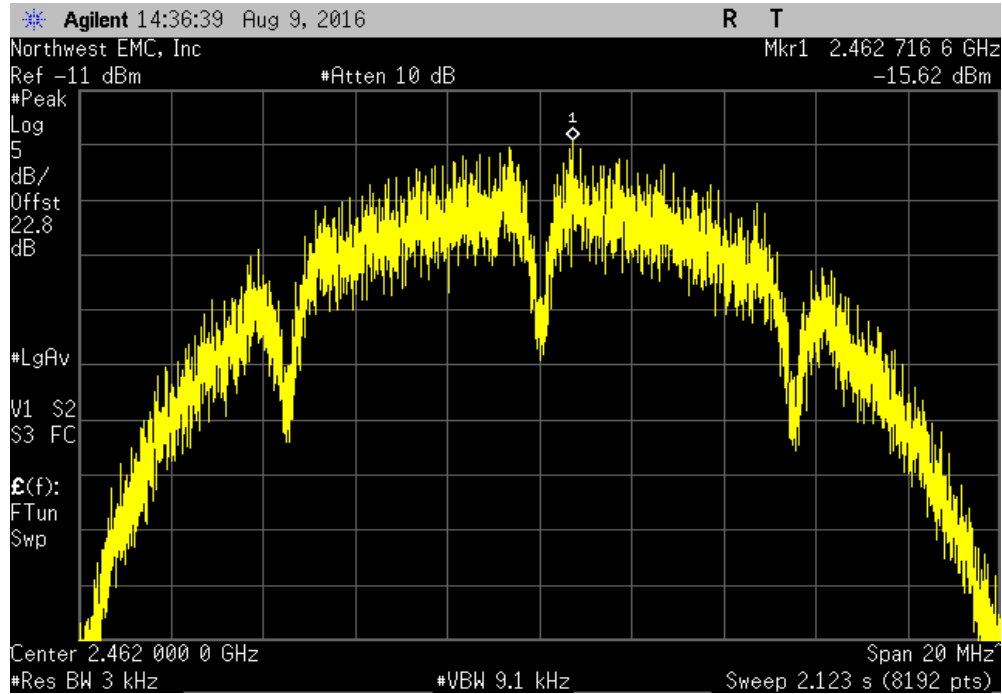


2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz						
	Value	Limit				
	dBm/3kHz	< dBm/3kHz	Results			
	-13.352	8	Pass			

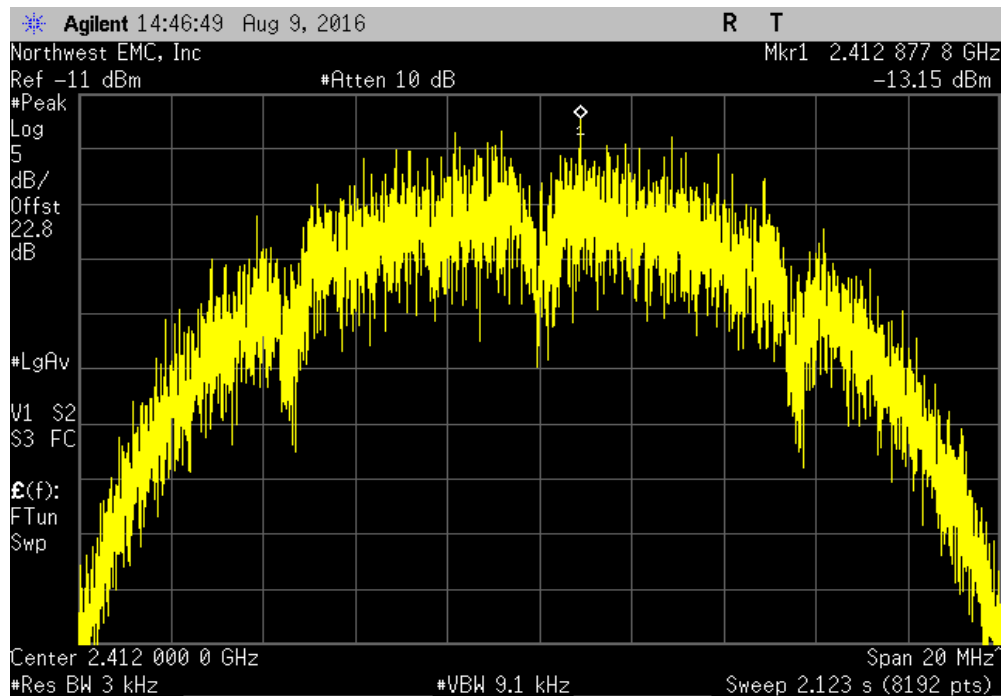


# POWER SPECTRAL DENSITY

2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
	Value	Limit				
	dBm/3kHz	< dBm/3kHz	Results			
	-15.62	8	Pass			

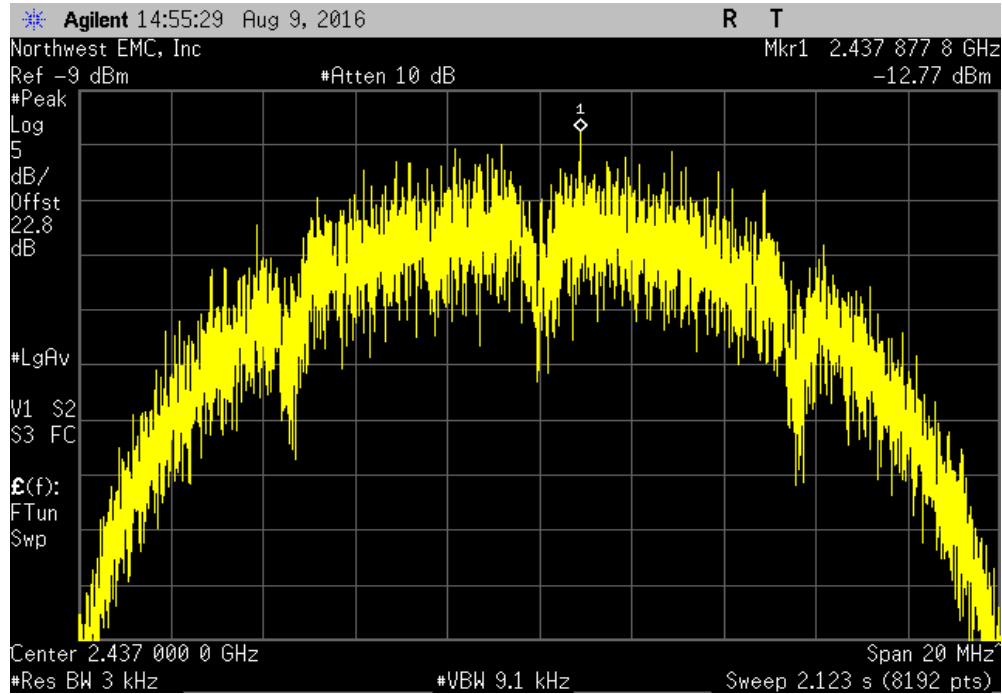


2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz						
	Value	Limit				
	dBm/3kHz	< dBm/3kHz	Results			
	-13.155	8	Pass			

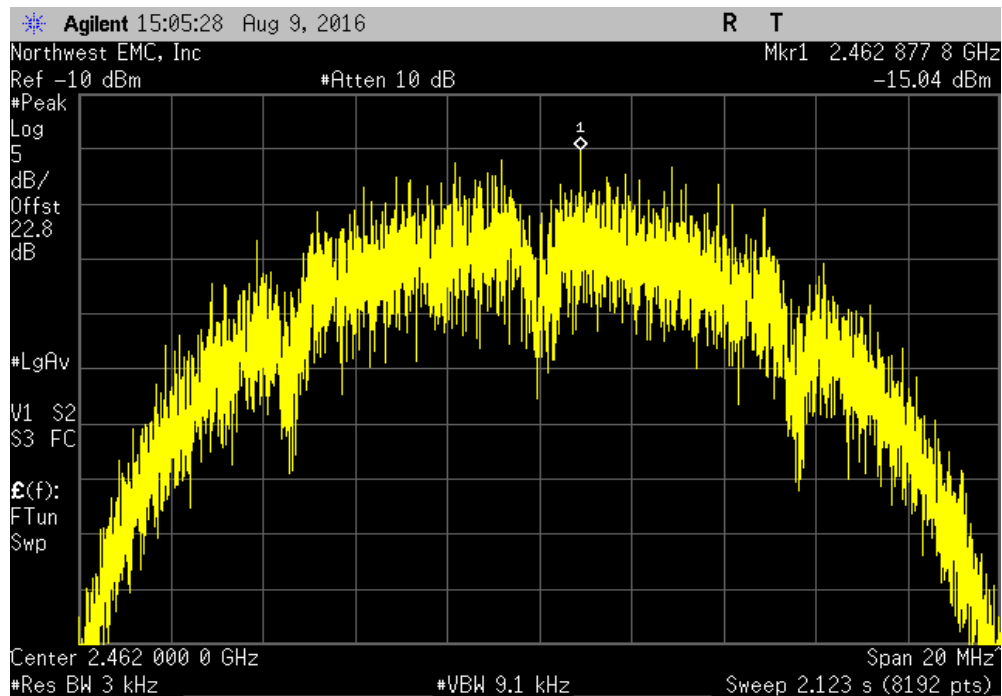


# POWER SPECTRAL DENSITY

2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
	Value	Limit				
	dBm/3kHz	< dBm/3kHz	Results			
	-12.771	8	Pass			

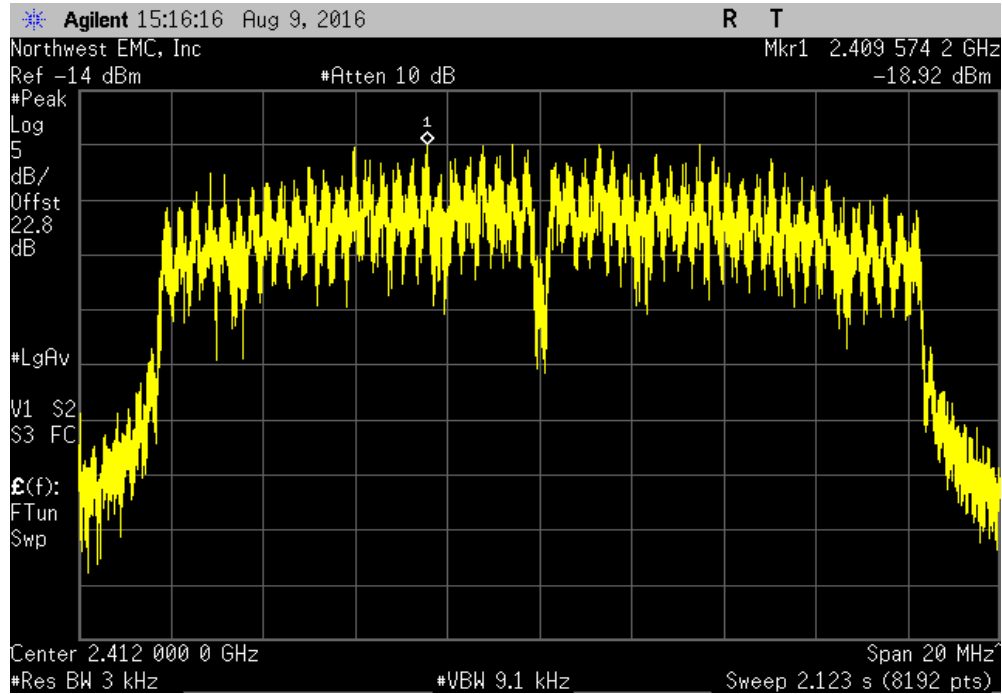


2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz						
	Value	Limit				
	dBm/3kHz	< dBm/3kHz	Results			
	-15.043	8	Pass			

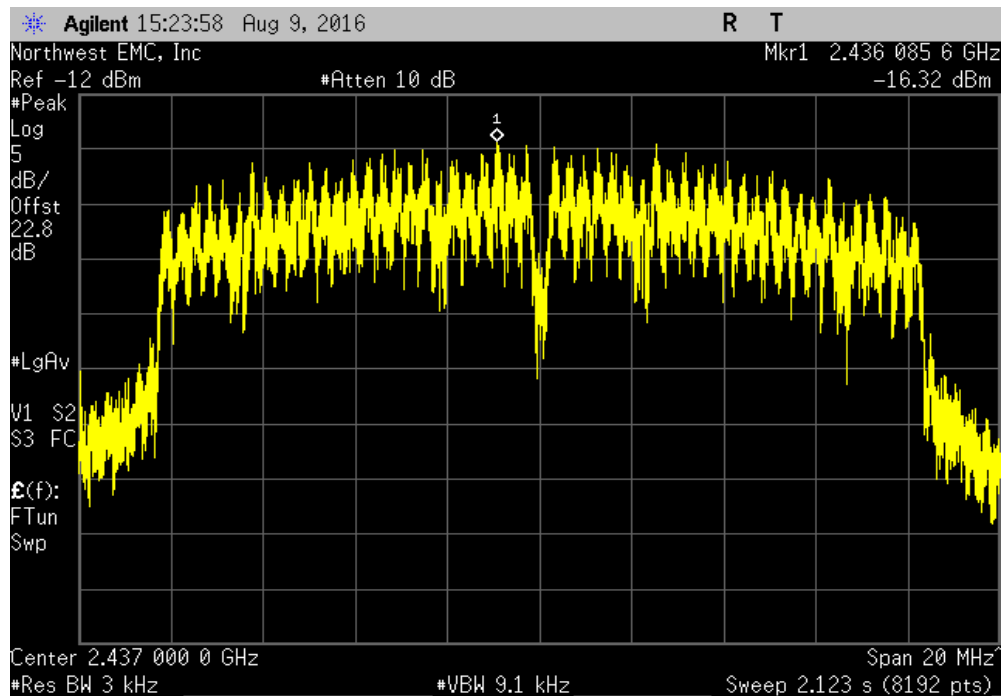


# POWER SPECTRAL DENSITY

2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
	Value	Limit				
	dBm/3kHz	< dBm/3kHz	Results			
	-18.919	8	Pass			

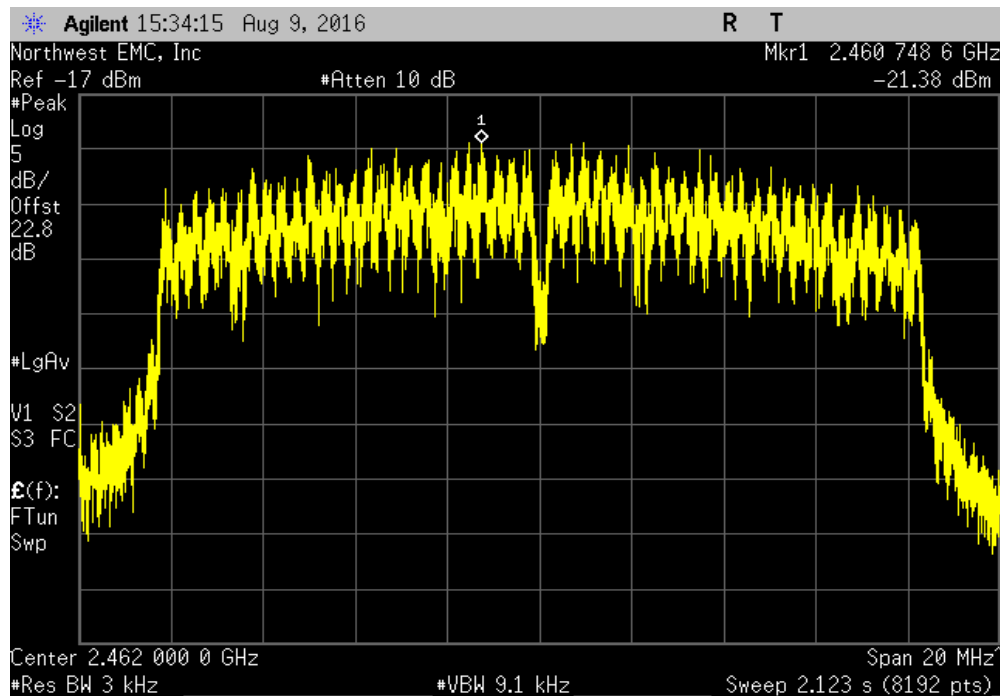


2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz						
	Value	Limit				
	dBm/3kHz	< dBm/3kHz	Results			
	-16.32	8	Pass			

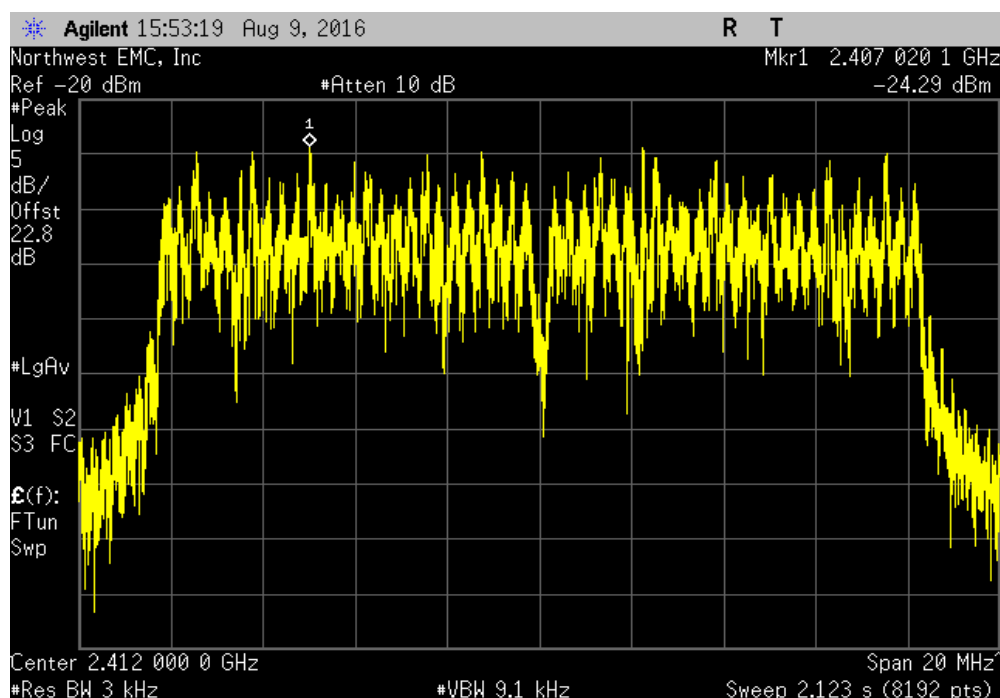


# POWER SPECTRAL DENSITY

2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
	Value	Limit				
	dBm/3kHz	< dBm/3kHz	Results			
	-21.383	8	Pass			

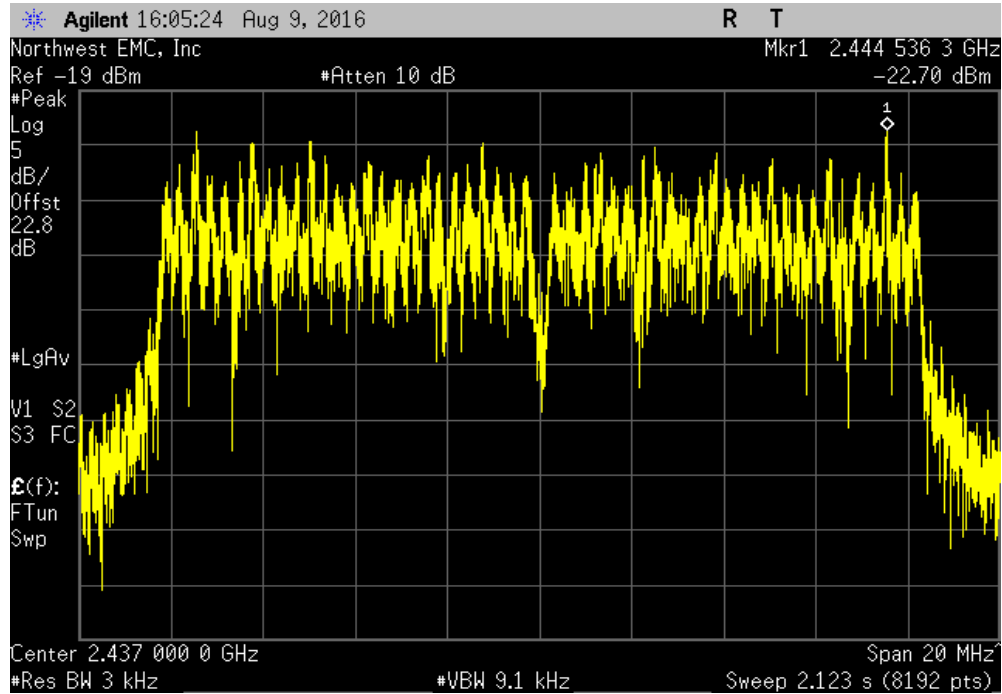


2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz						
	Value	Limit				
	dBm/3kHz	< dBm/3kHz	Results			
	-24.292	8	Pass			

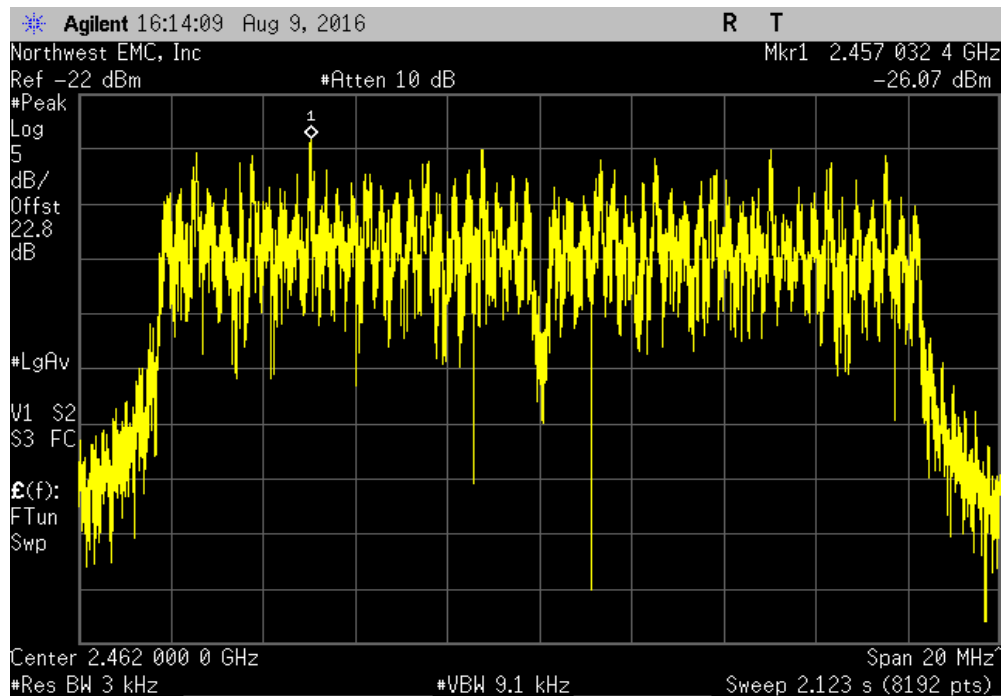


# POWER SPECTRAL DENSITY

2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
	Value	Limit				
	dBm/3kHz	< dBm/3kHz	Results			
	-22.704	8	Pass			



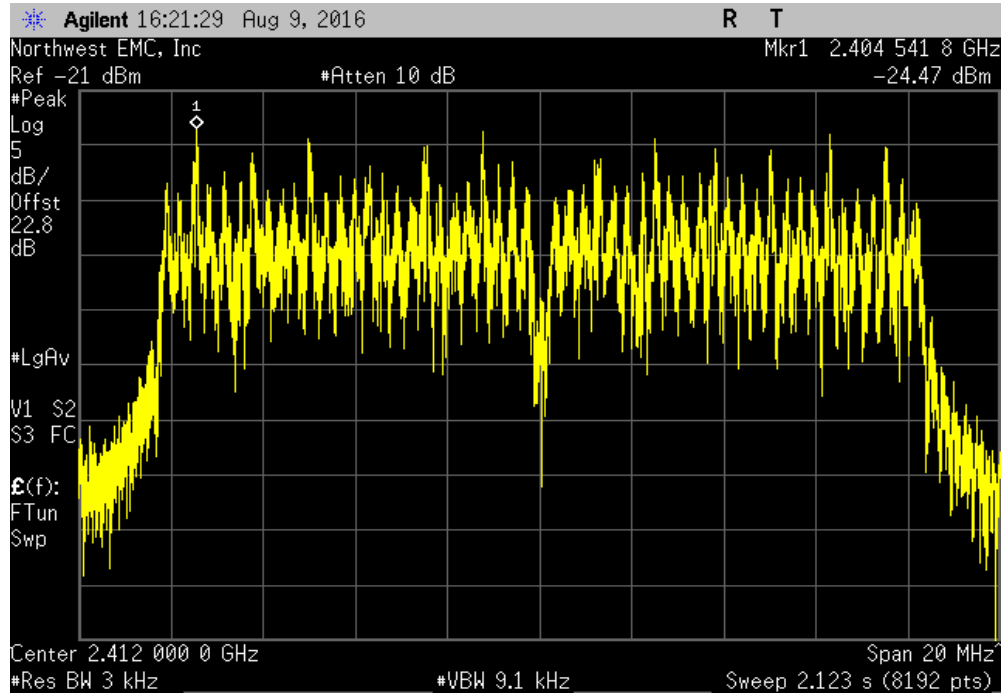
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz						
	Value	Limit				
	dBm/3kHz	< dBm/3kHz	Results			
	-26.069	8	Pass			



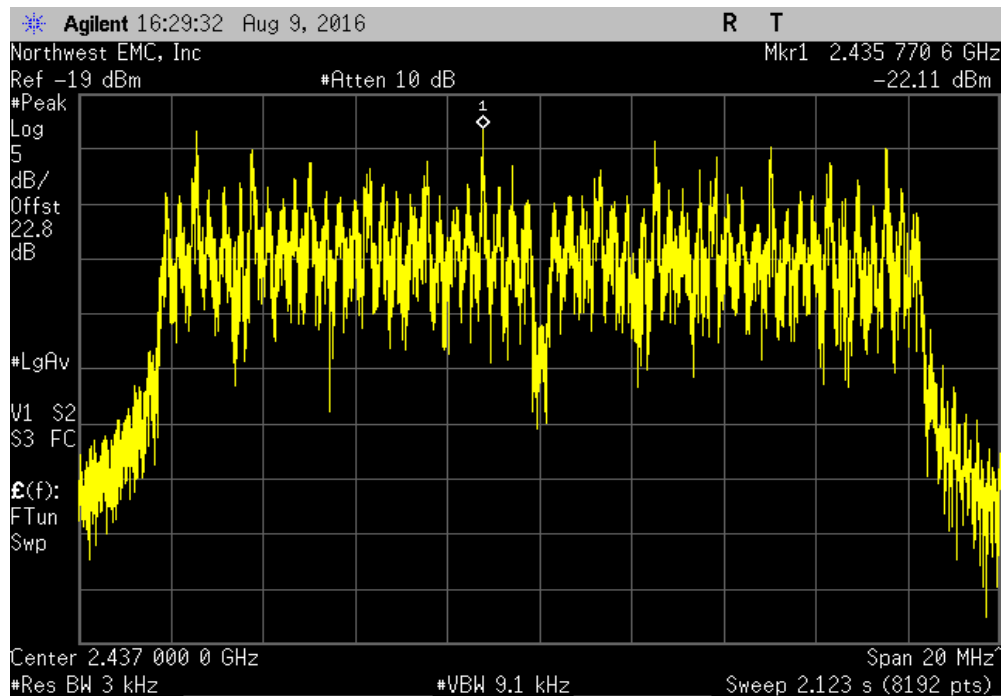


# POWER SPECTRAL DENSITY

2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
	Value	Limit				
	dBm/3kHz	< dBm/3kHz	Results			
	-24.472	8	Pass			

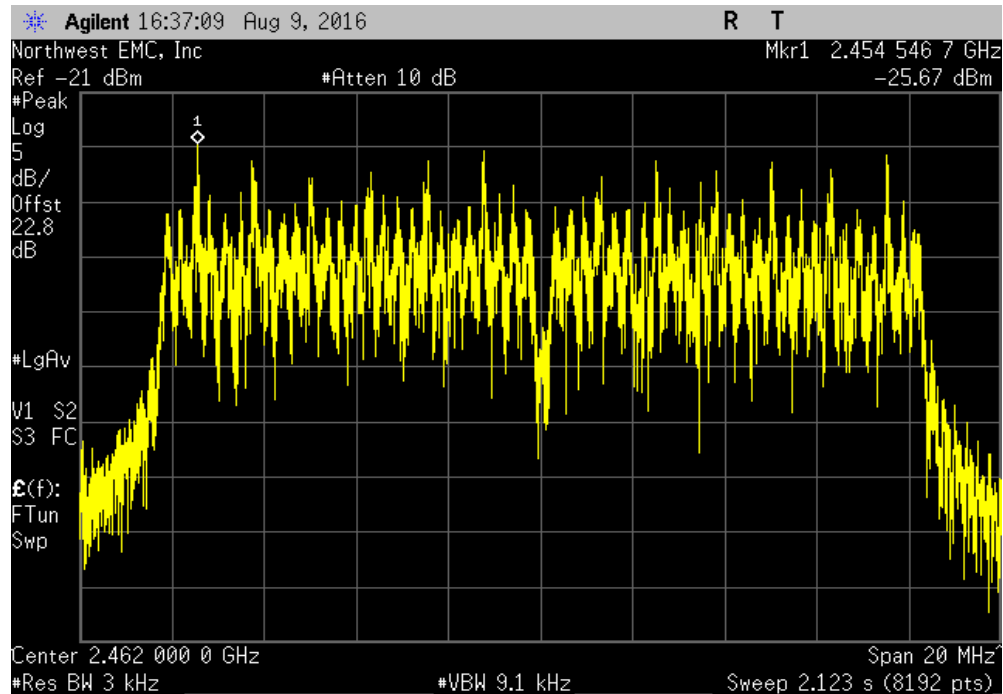


2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz						
	Value	Limit				
	dBm/3kHz	< dBm/3kHz	Results			
	-22.111	8	Pass			



# POWER SPECTRAL DENSITY

2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
			Value	Limit		
			dBm/3kHz	< dBm/3kHz	Results	
			-25.672	8	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.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	11/19/2015	11/19/2016
Generator - Signal	Keysight	N5182B	TFX	4/16/2015	4/16/2018
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Attenuator	Fairview Microwave	SA18E-20	TKS	4/4/2016	4/4/2017
Block - DC	Aeroflex	INMET 8535	AMO	4/4/2016	4/4/2017

## TEST DESCRIPTION


The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. 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 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.

# BAND EDGE COMPLIANCE



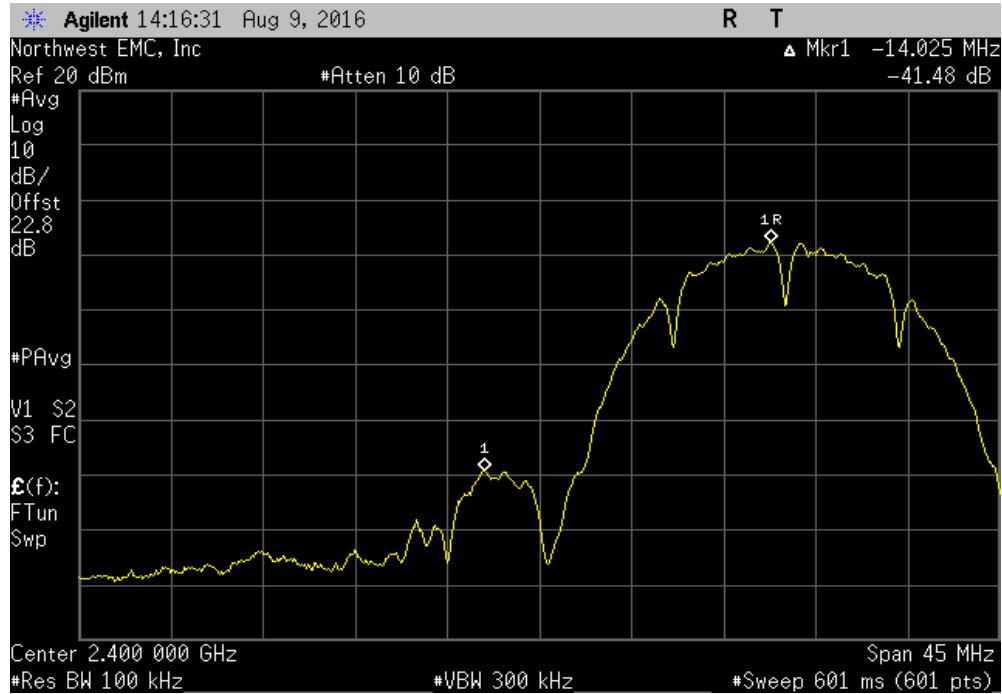
XMR 2016.05.06

EUT: BLEE		Work Order: AWAR0022	
Serial Number: None		Date: 08/09/16	
Customer: Awarepoint Corporation		Temperature: 23 °C	
Attendees: None		Humidity: 44.8% RH	
Project: None		Barometric Pres.: 1014 mbar	
Tested by: Mike Tran	Power: USB Powered	Job Site: OC13	
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2016		ANSI C63.10:2013	
COMMENTS			
Total reference level offset: DC Block + 20dB attenuator + RF Cable + Patch Cable = 22.75 dB. Power setting = 0.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	4	Signature 	
		Value (dBc)	Limit ≤ (dBc) Result
2400 MHz - 2483.5 MHz Band			
802.11(b) 1 Mbps			
Low Channel 1, 2412 MHz		-41.48	-30 Pass
High Channel 11, 2462 MHz		-56.78	-30 Pass
802.11(b) 11 Mbps			
Low Channel 1, 2412 MHz		-42.54	-30 Pass
High Channel 11, 2462 MHz		-55.79	-30 Pass
802.11(g) 6 Mbps			
Low Channel 1, 2412 MHz		-33.88	-30 Pass
High Channel 11, 2462 MHz		-49.75	-30 Pass
802.11(g) 36 Mbps			
Low Channel 1, 2412 MHz		-35.23	-30 Pass
High Channel 11, 2462 MHz		-48.28	-30 Pass
802.11(g) 54 Mbps			
Low Channel 1, 2412 MHz		-34.95	-30 Pass
High Channel 11, 2462 MHz		-47.77	-30 Pass

# BAND EDGE COMPLIANCE

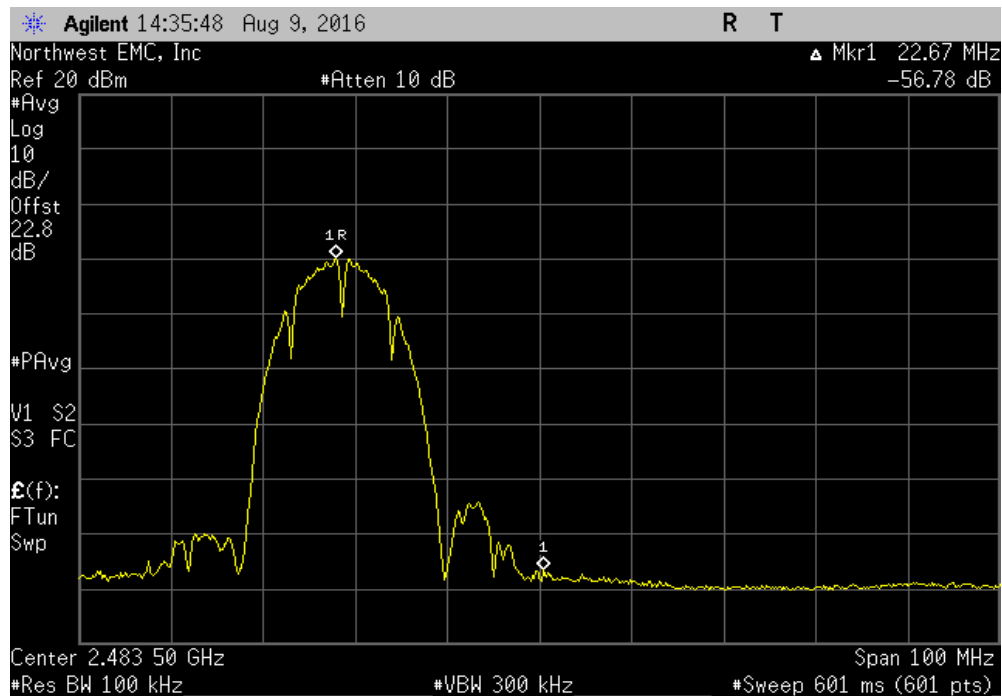
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz

Value (dBc)	Limit ≤ (dBc)	Result
-41.48	-30	Pass



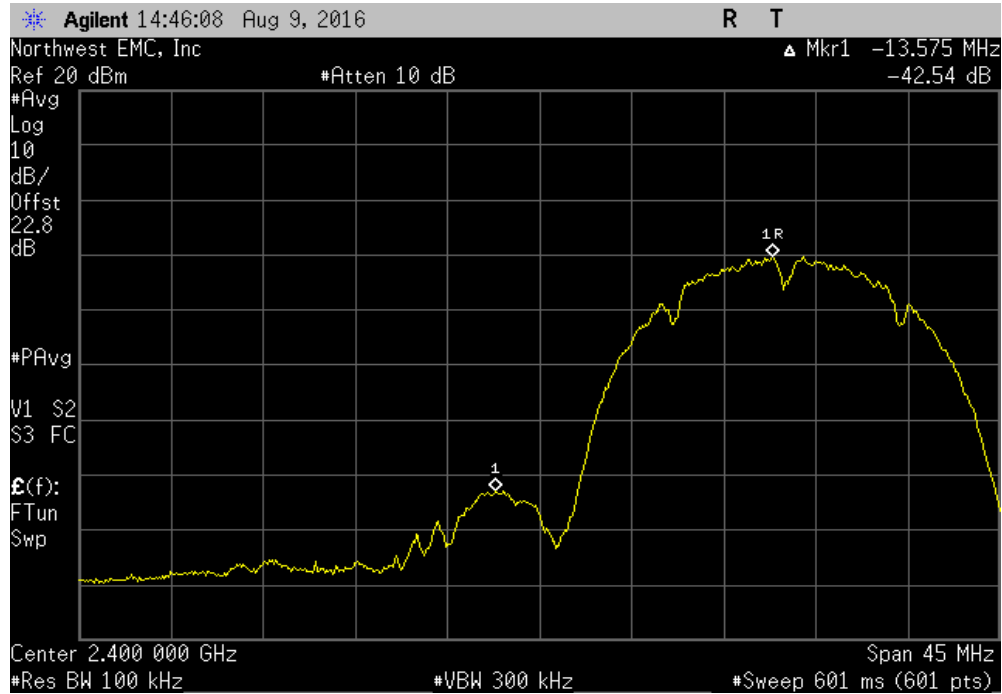
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz

Value (dBc)	Limit ≤ (dBc)	Result
-56.78	-30	Pass

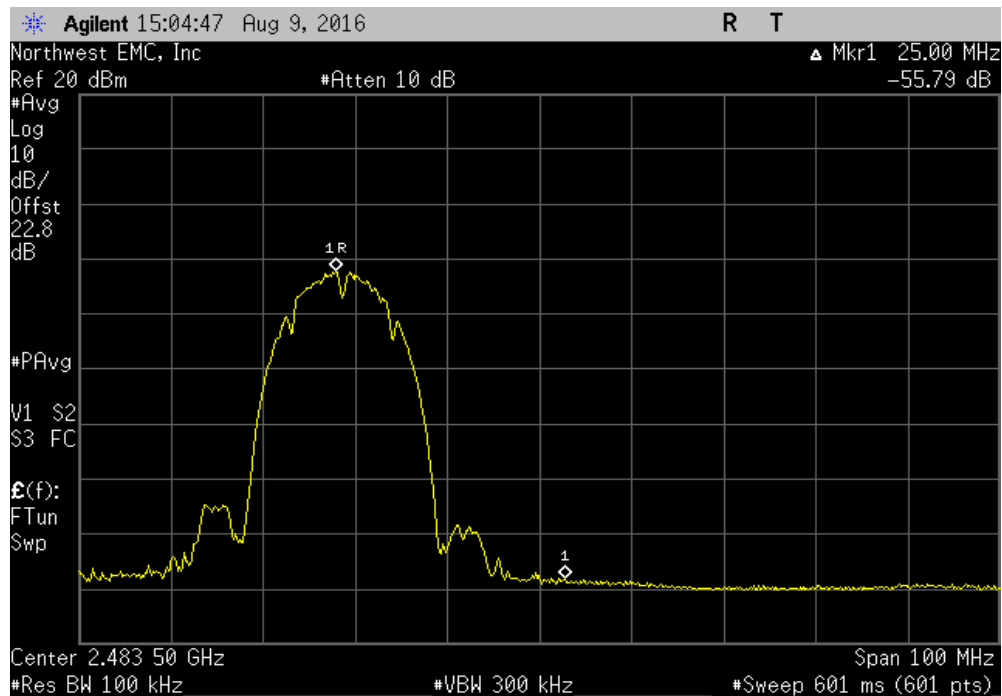


# BAND EDGE COMPLIANCE

2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-42.54	-30	Pass



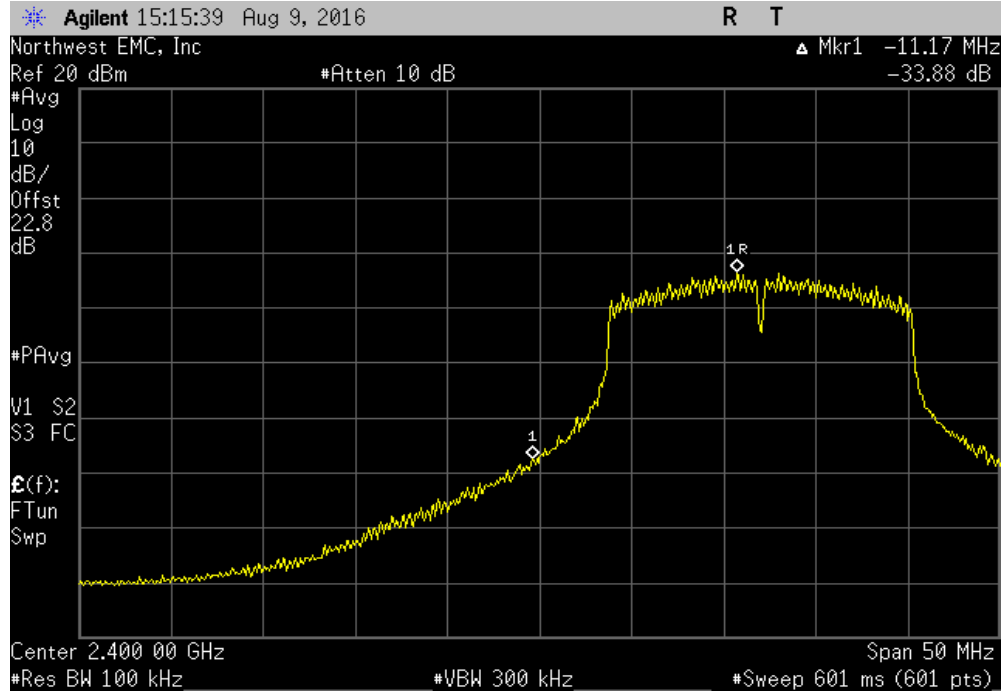
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-55.79	-30	Pass



# BAND EDGE COMPLIANCE

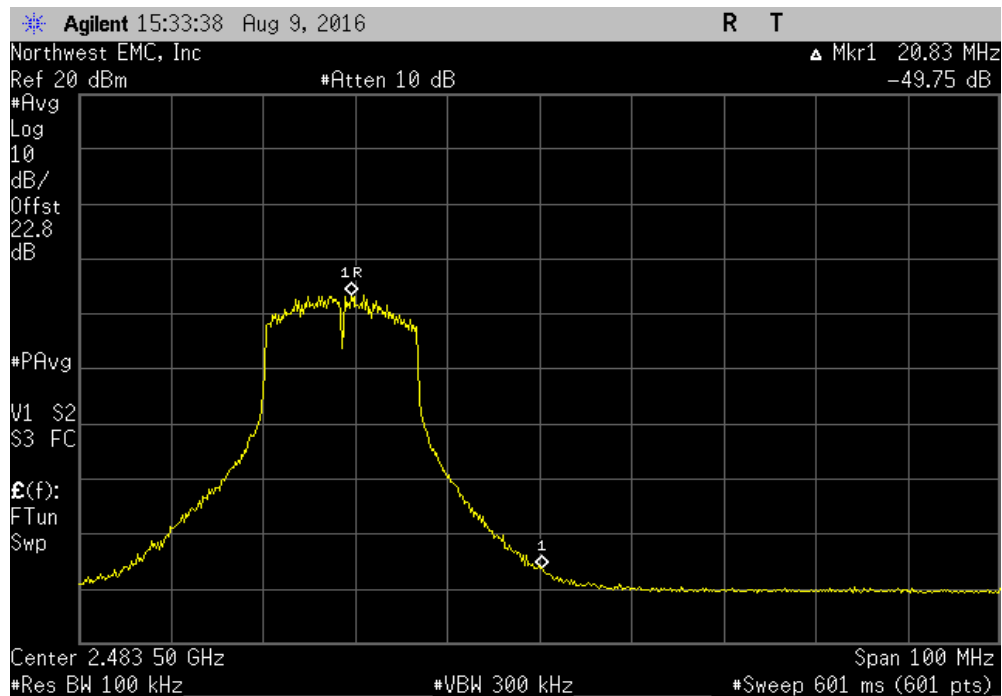
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz

Value (dBc)	Limit ≤ (dBc)	Result
-33.88	-30	Pass



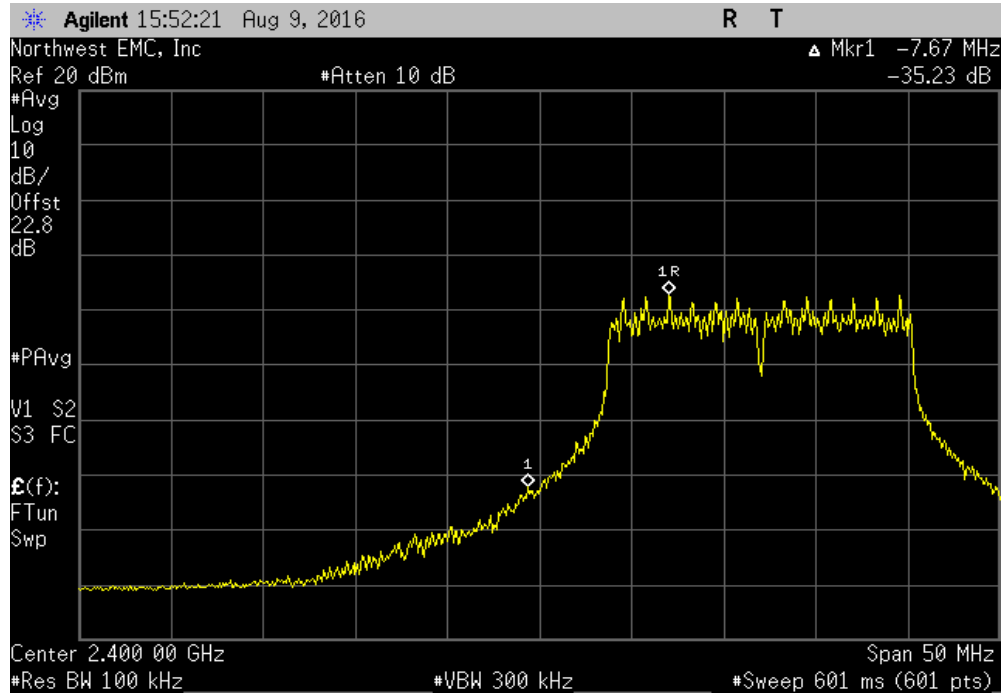
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz

Value (dBc)	Limit ≤ (dBc)	Result
-49.75	-30	Pass

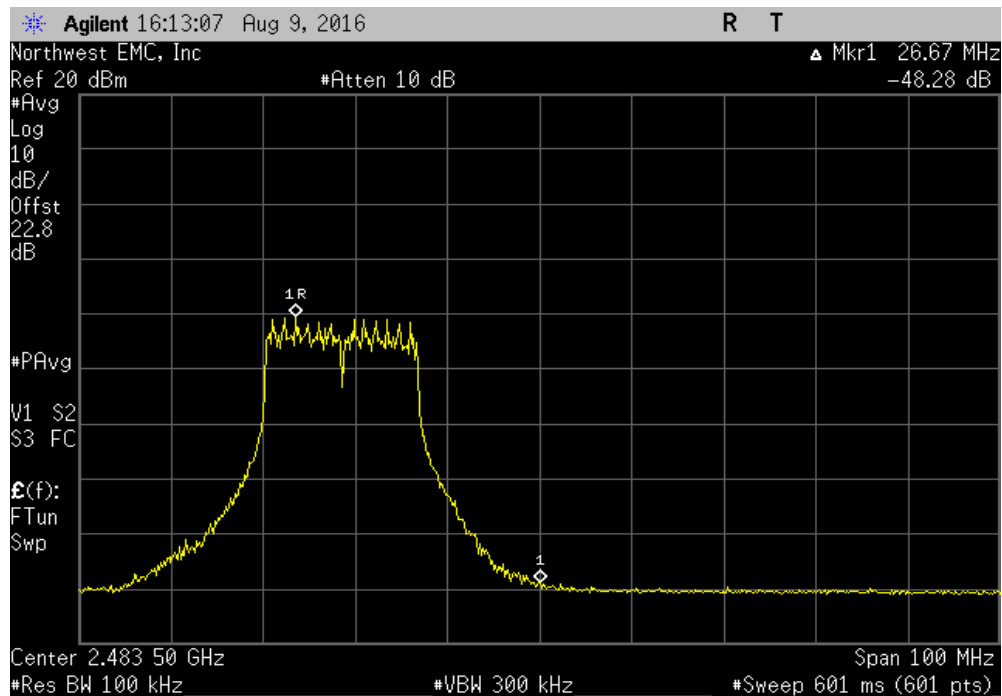


# BAND EDGE COMPLIANCE

2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-35.23	-30	Pass



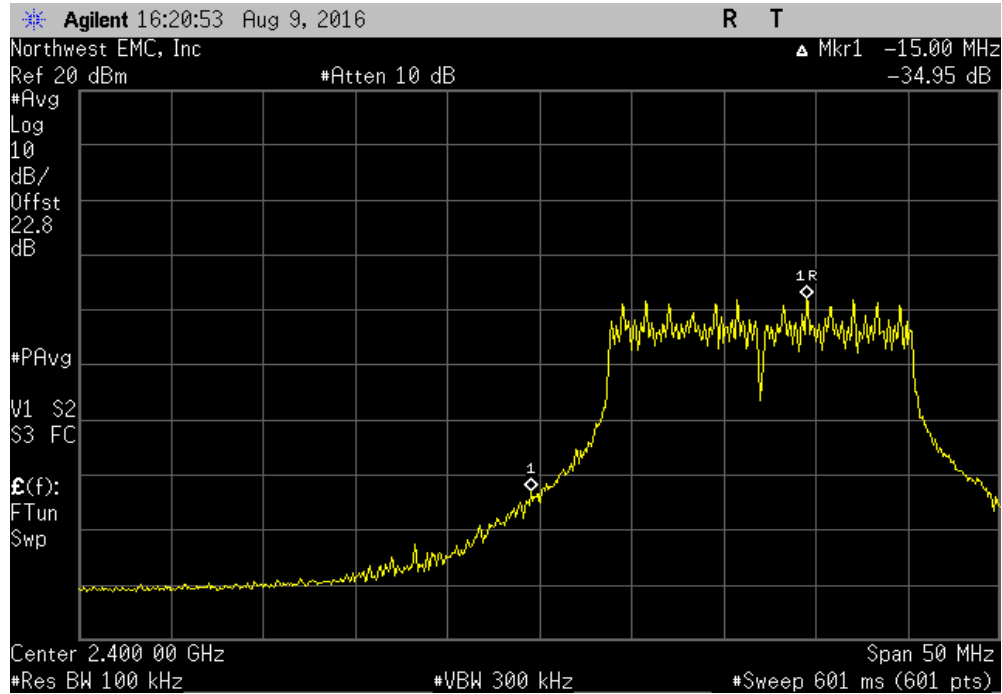
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-48.28	-30	Pass



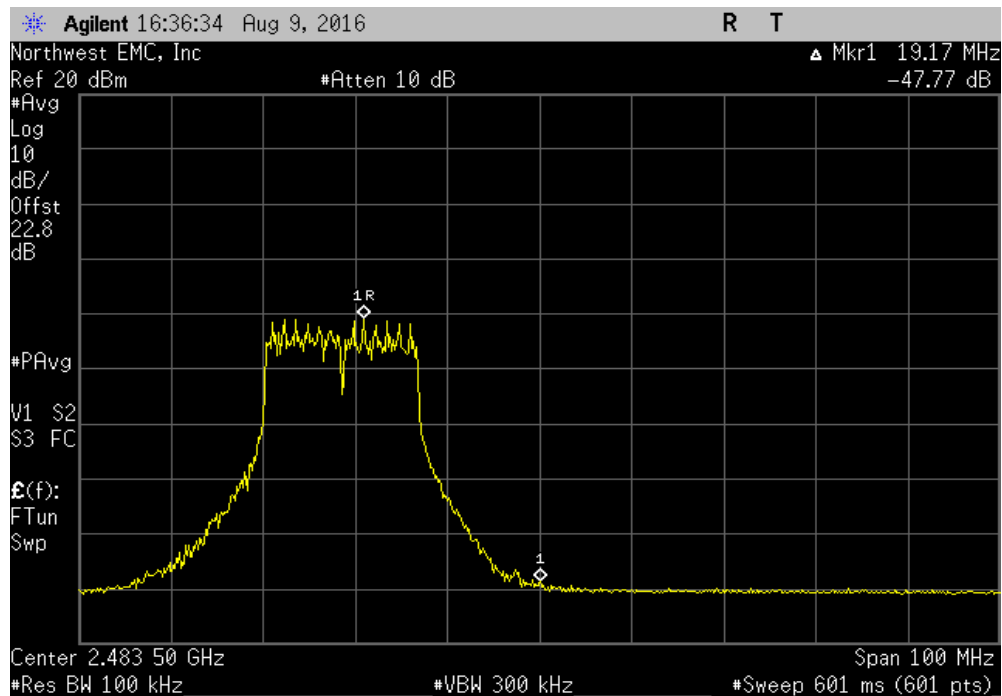


# BAND EDGE COMPLIANCE

2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-34.95	-30	Pass



2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
				Value (dBc)	Limit ≤ (dBc)	Result
				-47.77	-30	Pass



# SPURIOUS CONDUCTED EMISSIONS

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

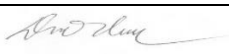
## TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFA	11/19/2015	11/19/2016
Generator - Signal	Keysight	N5182B	TFX	4/16/2015	4/16/2018
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Attenuator	Fairview Microwave	SA18E-20	TKS	4/4/2016	4/4/2017
Block - DC	Aeroflex	INMET 8535	AMO	4/4/2016	4/4/2017

## TEST DESCRIPTION

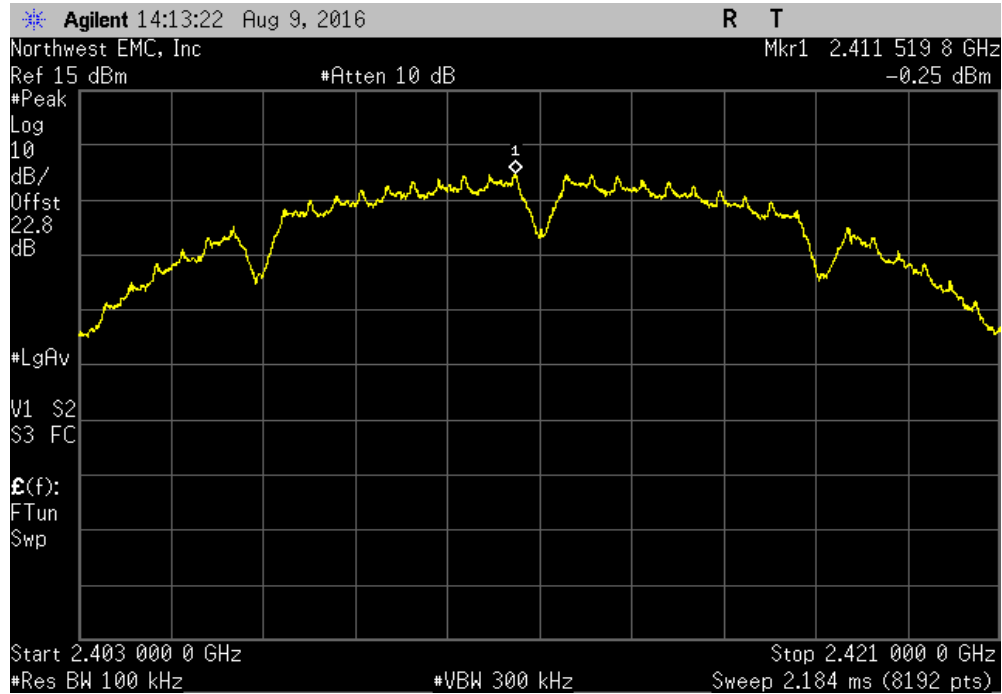
The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The spurious RF conducted emissions were measured with the EUT set to low, medium and high transmit frequencies. The EUT was transmitting at the data rate(s) listed in the datasheet. For each transmit frequency, the spectrum was scanned throughout the

# SPURIOUS CONDUCTED EMISSIONS

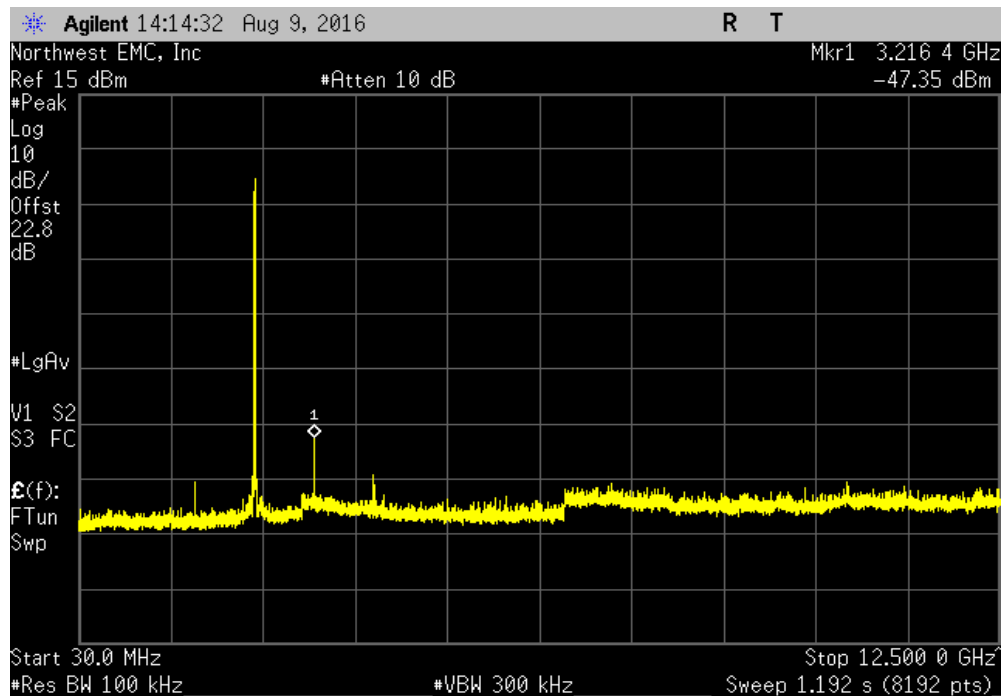
EUT: BLEE		Work Order: AWAR0022	
Serial Number: None		Date: 08/09/16	
Customer: Awarepoint Corporation		Temperature: 23 °C	
Attendees: None		Humidity: 44.8% RH	
Project: None		Barometric Pres.: 1014 mbar	
Tested by: Mike Tran		Power: USB Powered	
		Job Site: OC13	
TEST SPECIFICATIONS		Test Method	
FCC 15.247:2016		ANSI C63.10:2013	
COMMENTS			
Total reference level offset: DC Block + 20dB attenuator + RF Cable + Patch Cable = 22.75 dB. Power setting = 0.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	4	Signature 	
		Frequency Range	Max Value (dBc)
			Limit ≤ (dBc)
			Result
2400 MHz - 2483.5 MHz Band			
802.11(b) 1 Mbps			
	Low Channel 1, 2412 MHz	Fundamental	N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-47.1
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-52.25
	Mid Channel 6, 2437 MHz	Fundamental	N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-50.47
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-50.74
	High Channel 11, 2462 MHz	Fundamental	N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-49.98
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-50.41
802.11(b) 11 Mbps			
	Low Channel 1, 2412 MHz	Fundamental	N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-48.21
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-52.81
	Mid Channel 6, 2437 MHz	Fundamental	N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-50.16
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-53.36
	High Channel 11, 2462 MHz	Fundamental	N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-50.92
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-51.7
802.11(g) 6 Mbps			
	Low Channel 1, 2412 MHz	Fundamental	N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-44.9
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-50.11
	Mid Channel 6, 2437 MHz	Fundamental	N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-49.32
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-52.37
	High Channel 11, 2462 MHz	Fundamental	N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-46.62
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-47.19
802.11(g) 36 Mbps			
	Low Channel 1, 2412 MHz	Fundamental	N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-36.13
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-47.66
	Mid Channel 6, 2437 MHz	Fundamental	N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-49.64
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-48.29
	High Channel 11, 2462 MHz	Fundamental	N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-43.61
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-45.07
802.11(g) 54 Mbps			
	Low Channel 1, 2412 MHz	Fundamental	N/A
	Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	-42.64
	Low Channel 1, 2412 MHz	12.5 GHz - 25 GHz	-46.99
	Mid Channel 6, 2437 MHz	Fundamental	N/A
	Mid Channel 6, 2437 MHz	30 MHz - 12.5 GHz	-46.15
	Mid Channel 6, 2437 MHz	12.5 GHz - 25 GHz	-47.82
	High Channel 11, 2462 MHz	Fundamental	N/A
	High Channel 11, 2462 MHz	30 MHz - 12.5 GHz	-43.55
	High Channel 11, 2462 MHz	12.5 GHz - 25 GHz	-44.85

# SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
Frequency Range		Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental		N/A	N/A	N/A		

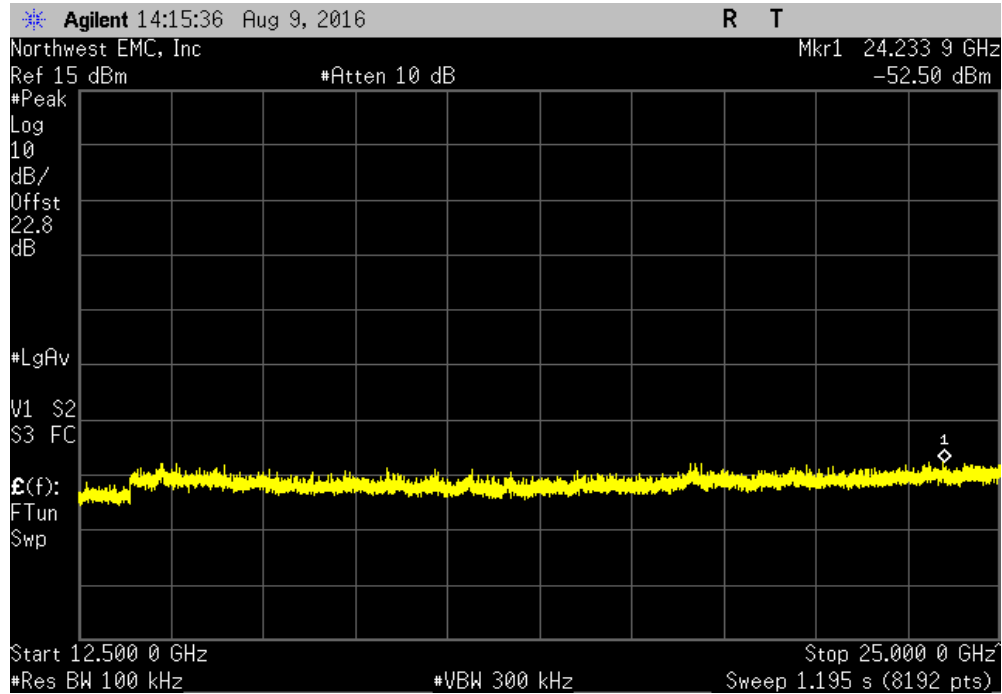


2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
Frequency Range		Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz		-47.1	-30	Pass		

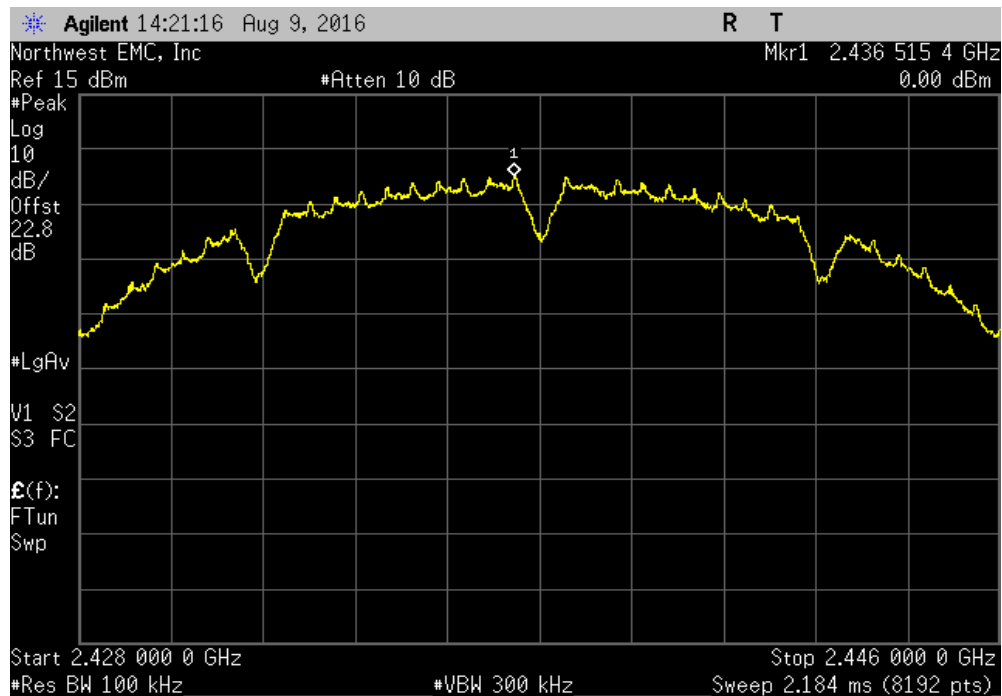


# SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-52.25	-30	Pass	

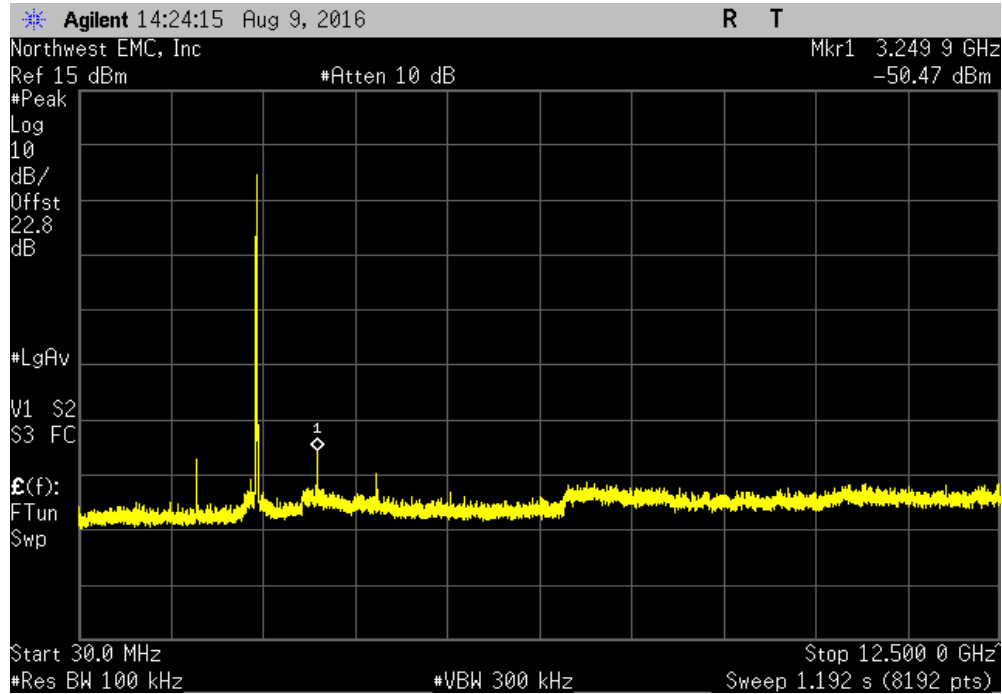


2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	N/A	N/A	N/A	

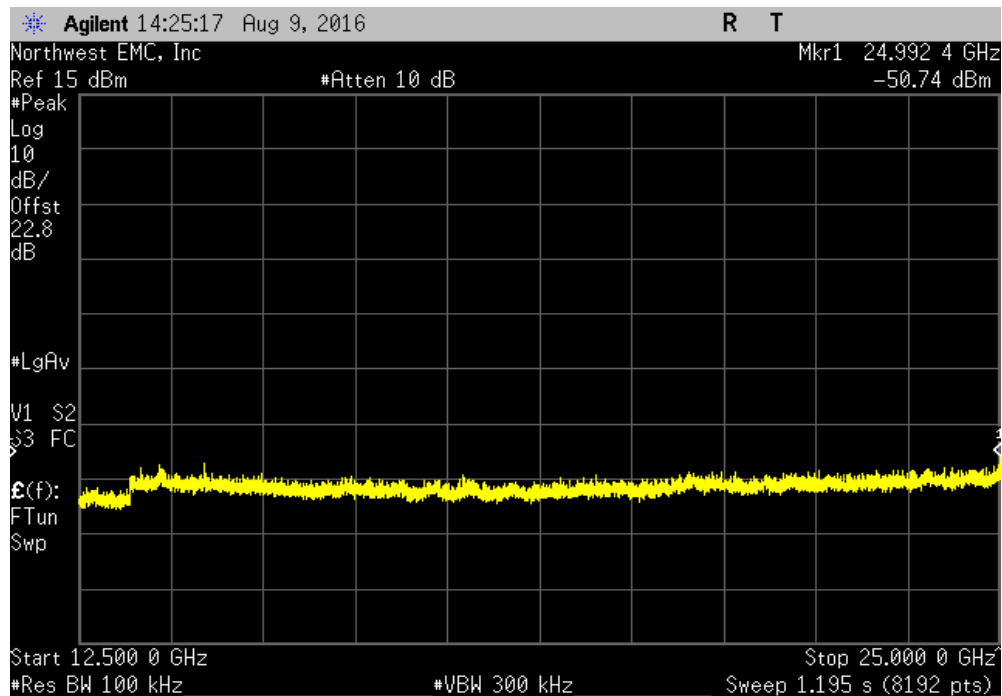


# SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	-50.47	-30	Pass	

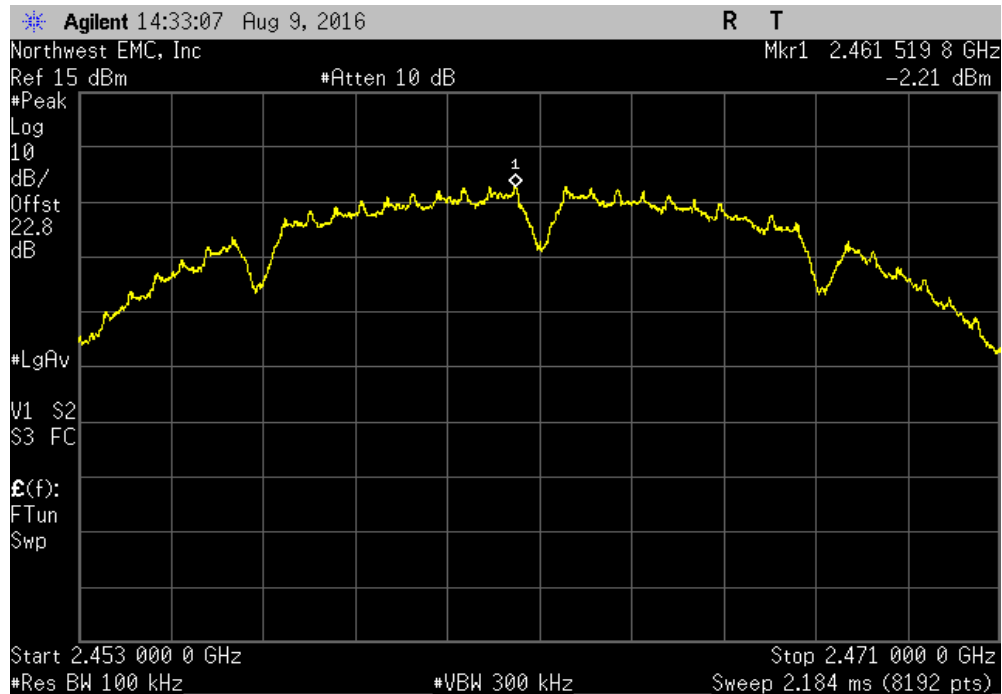


2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-50.74	-30	Pass	

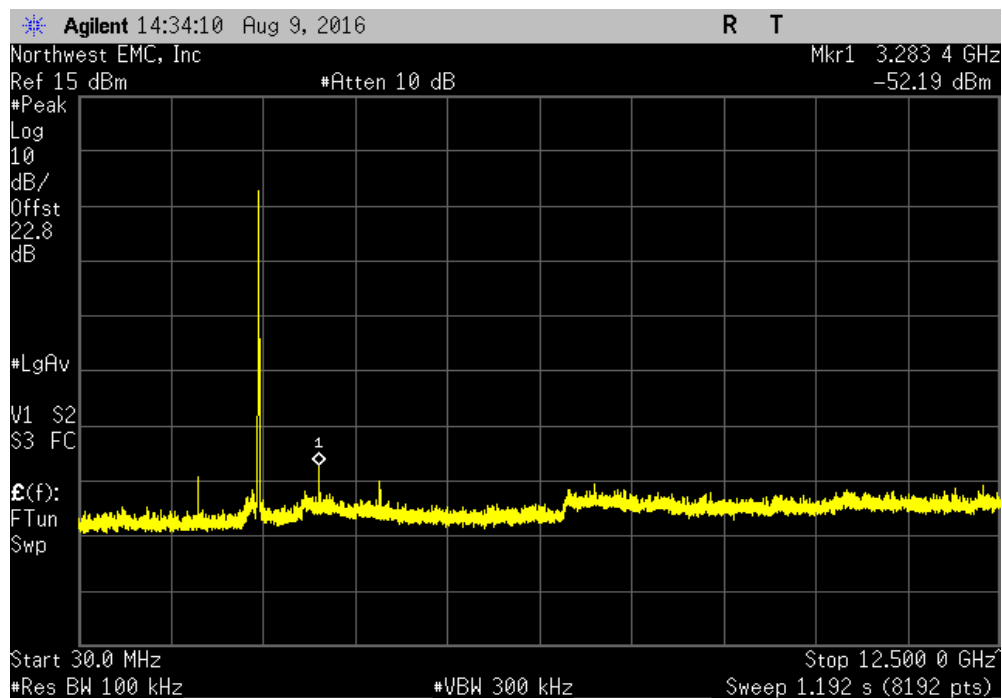


# SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
Frequency Range		Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental		N/A	N/A	N/A		

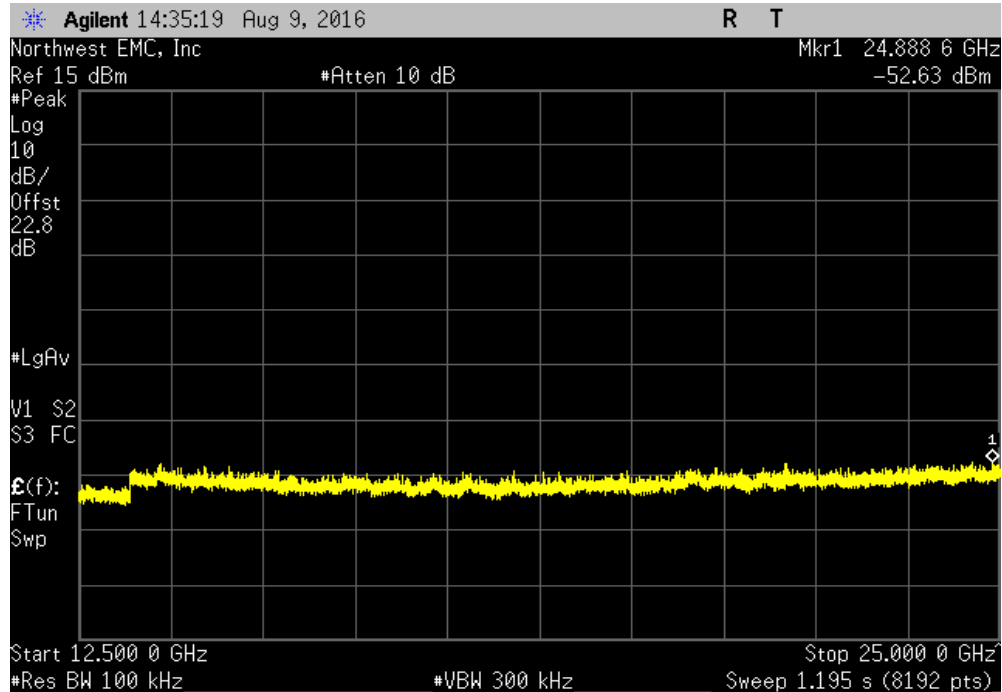


2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
Frequency Range		Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz		-49.98	-30	Pass		

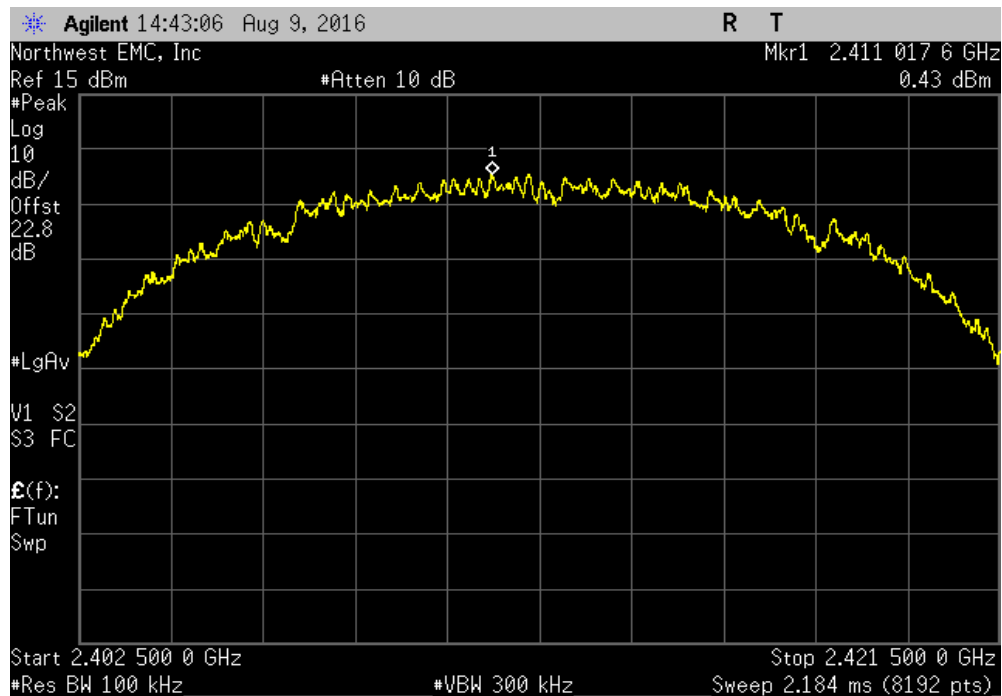


# SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-50.41	-30	Pass	



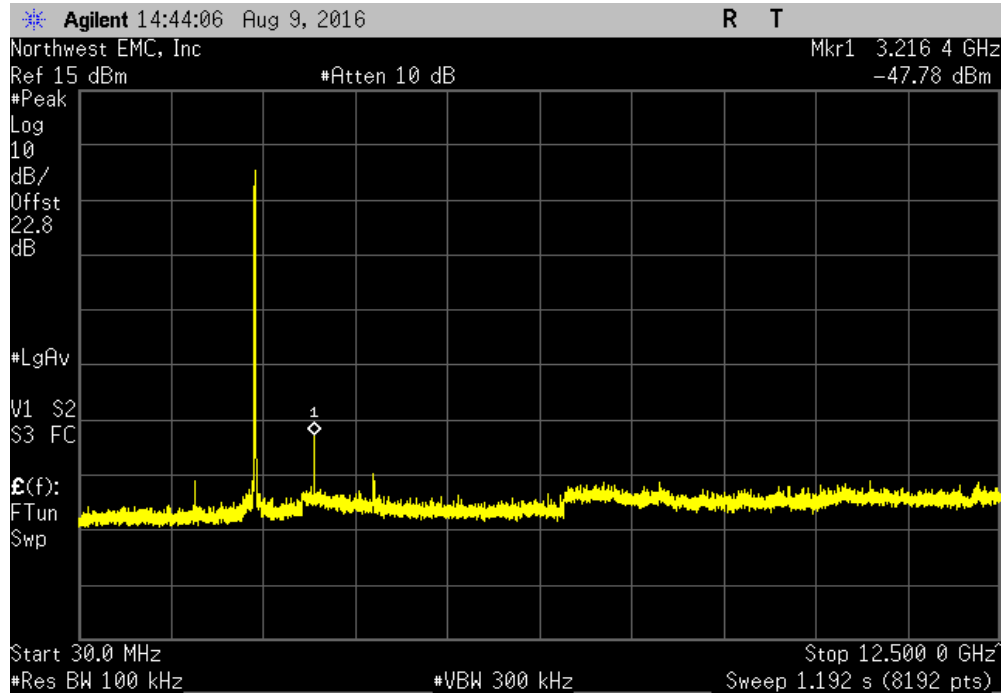
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	N/A	N/A	N/A	



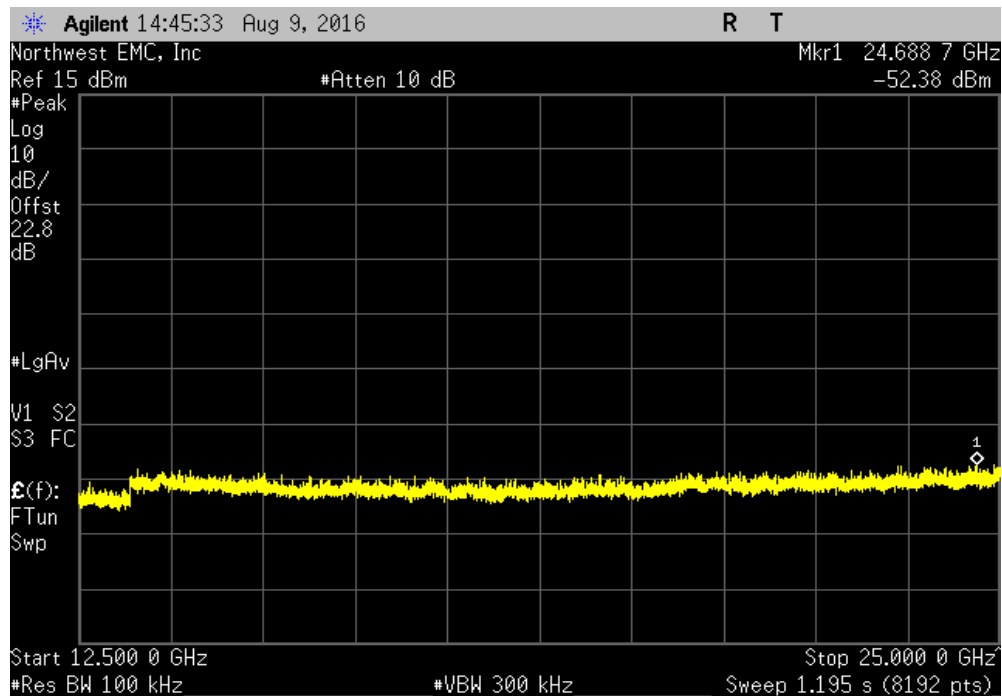


# SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	-48.21	-30	Pass	

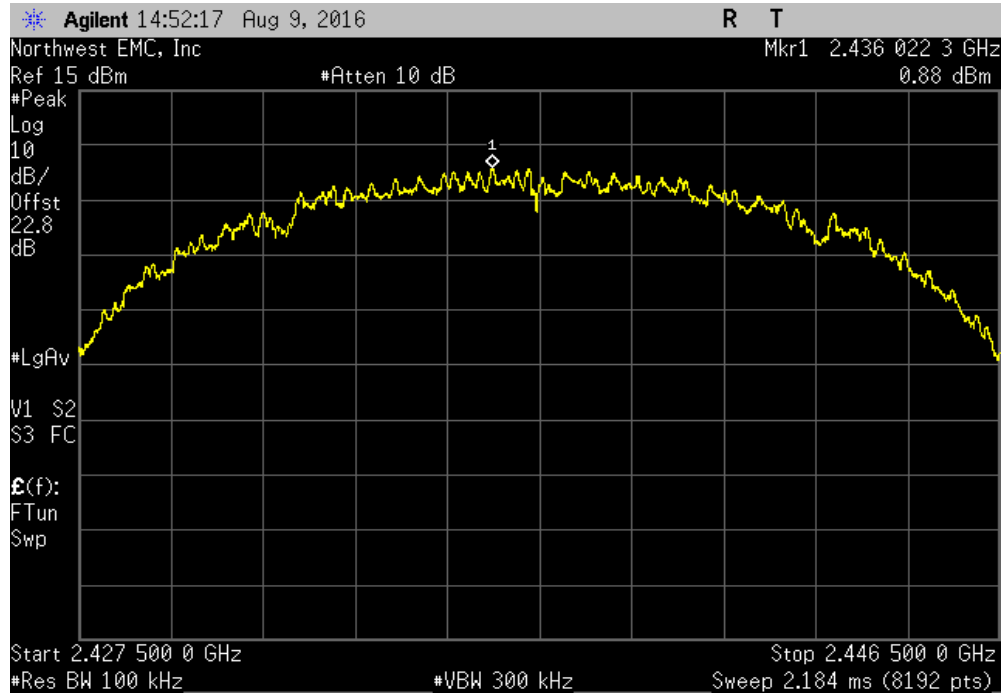


2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-52.81	-30	Pass	

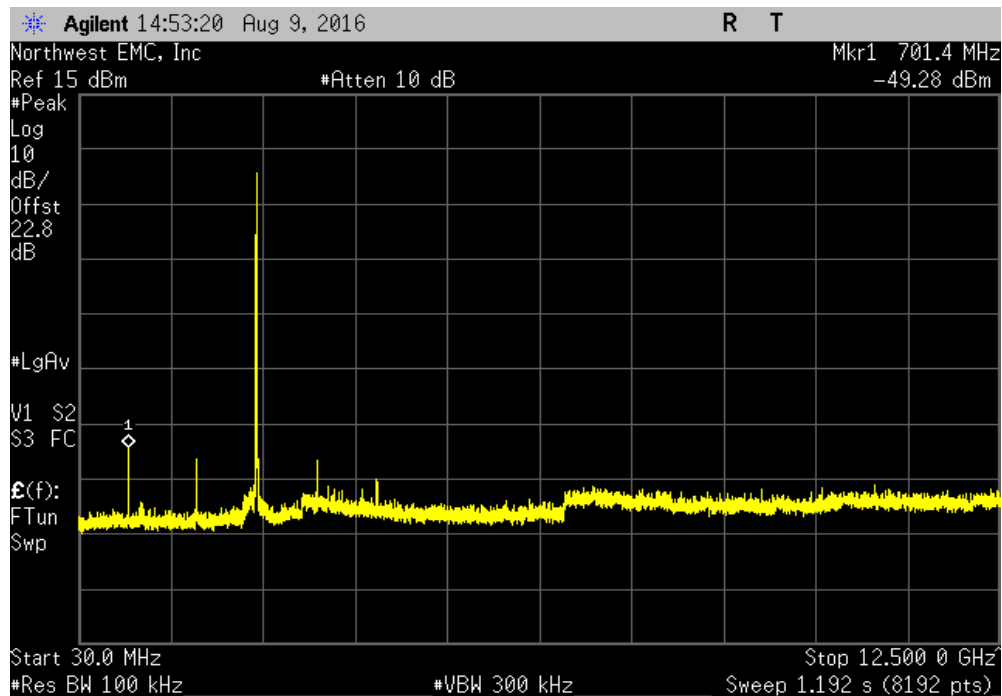


# SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
Frequency Range		Max Value (dBc)		Limit ≤ (dBc)	Result	
Fundamental		N/A		N/A	N/A	

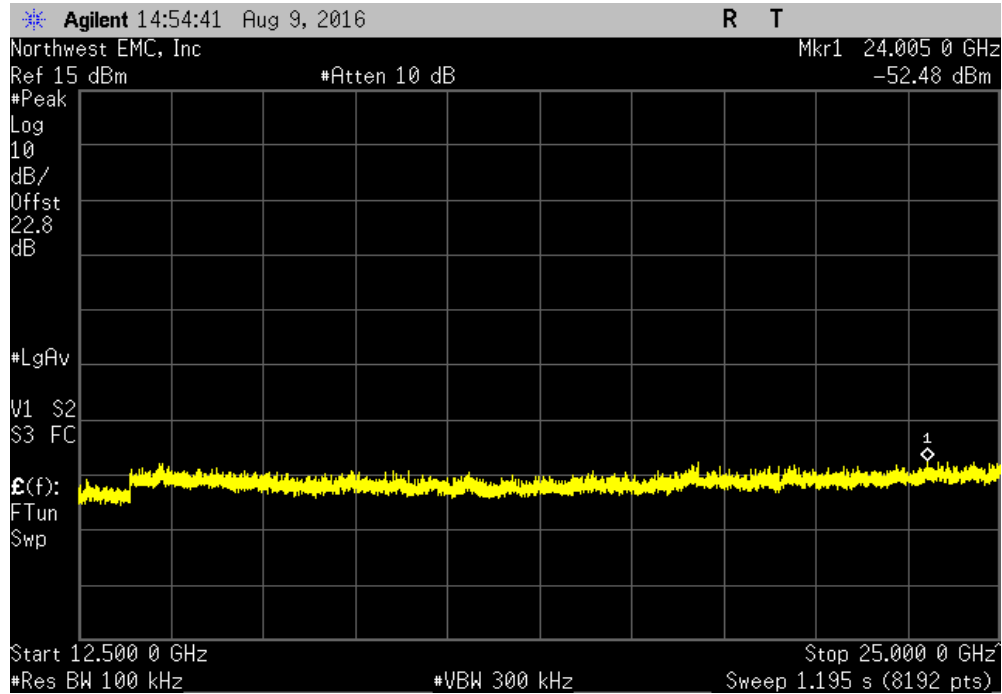


2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
Frequency Range		Max Value (dBc)		Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz		-50.16		-30	Pass	

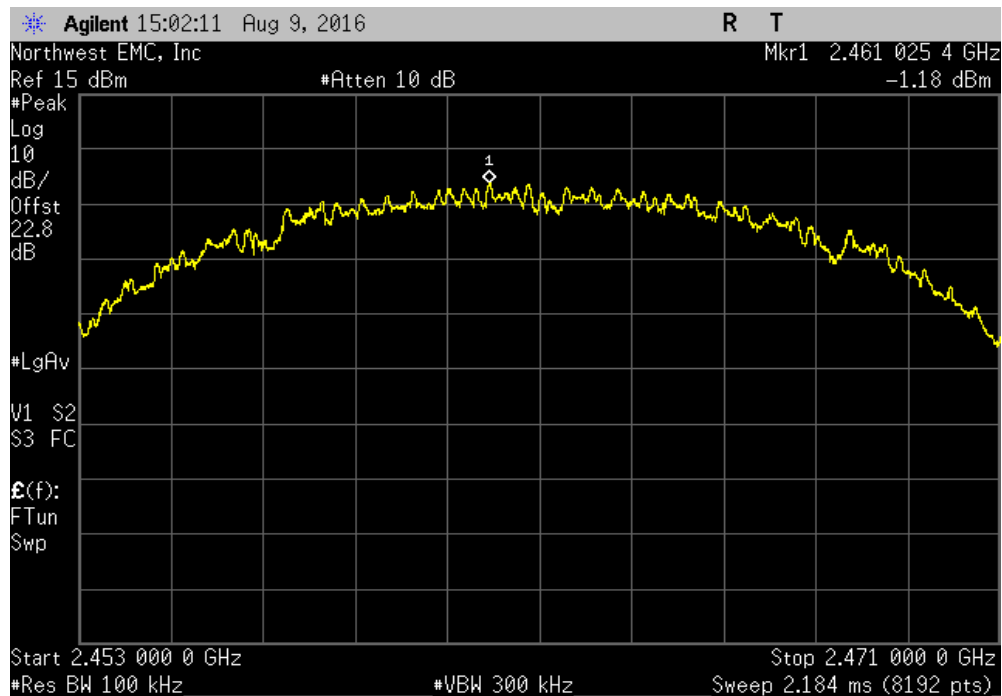


# SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-53.36	-30	Pass	

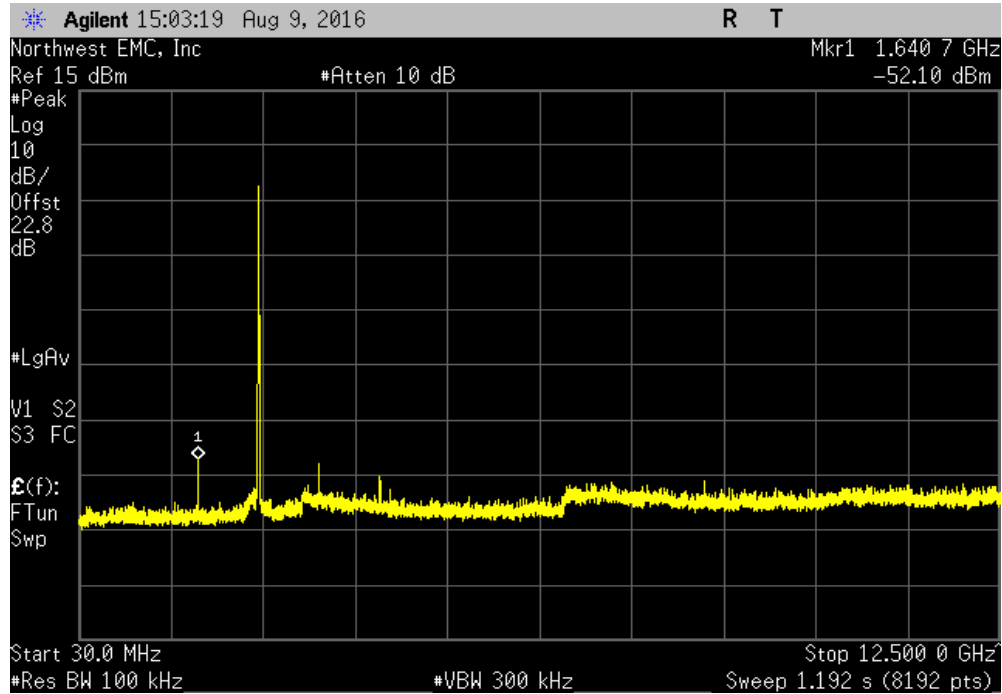


2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	N/A	N/A	N/A	

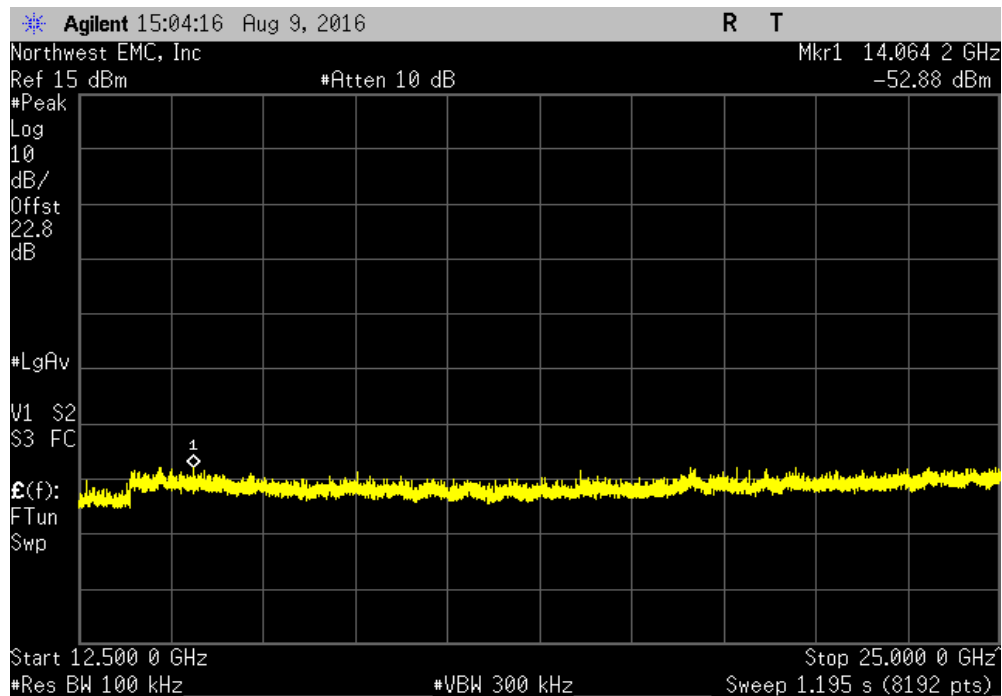


# SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	-50.92	-30	Pass	

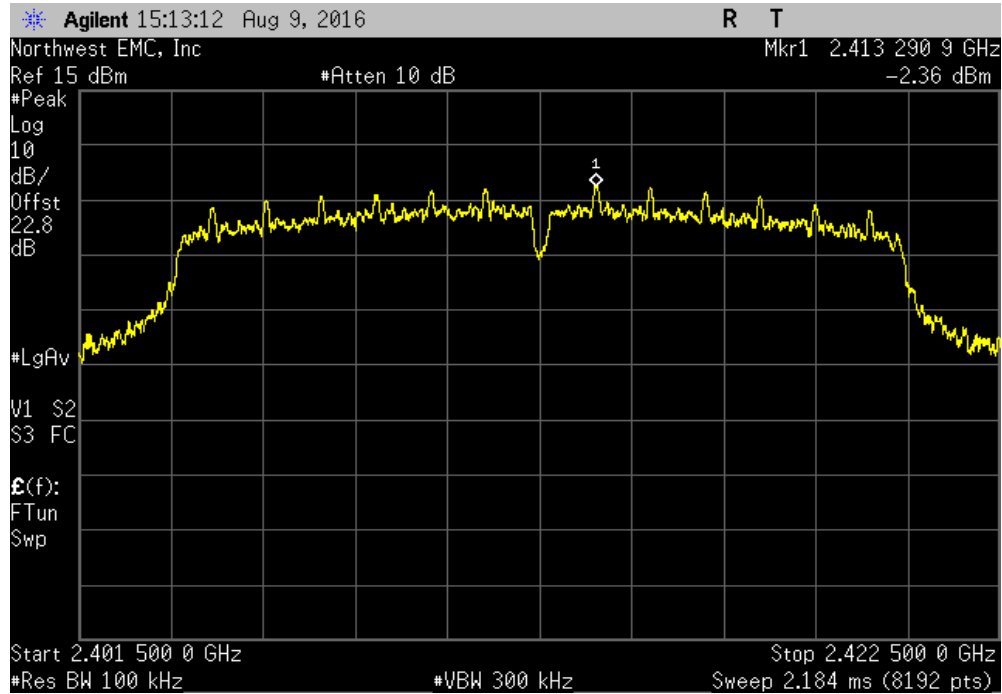


2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-51.7	-30	Pass	

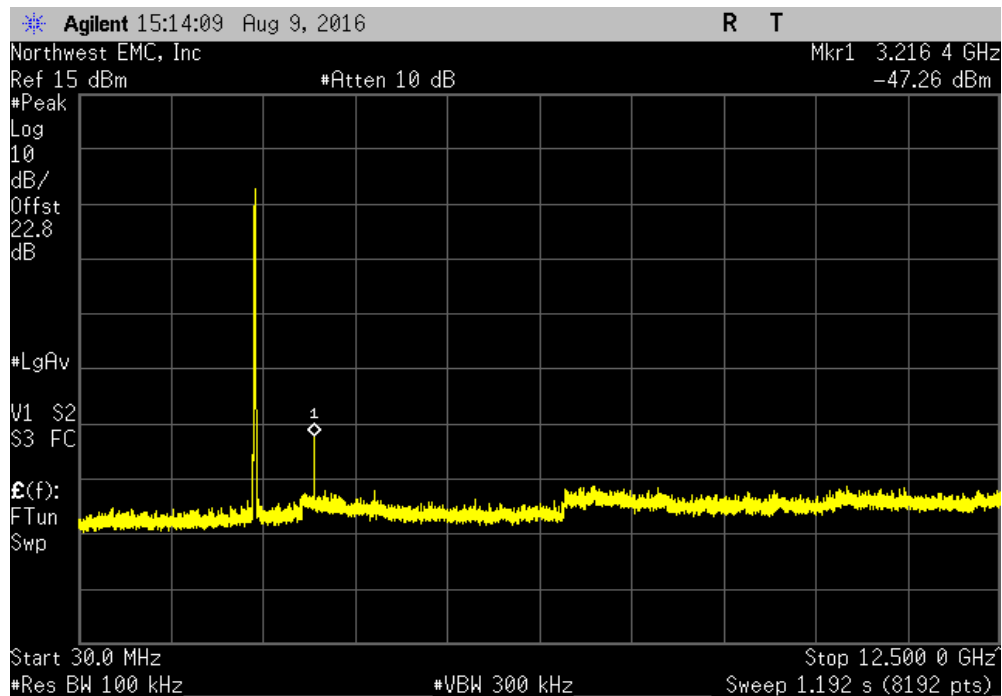


# SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
Frequency Range		Max Value (dBc)		Limit ≤ (dBc)	Result	
Fundamental		N/A		N/A	N/A	

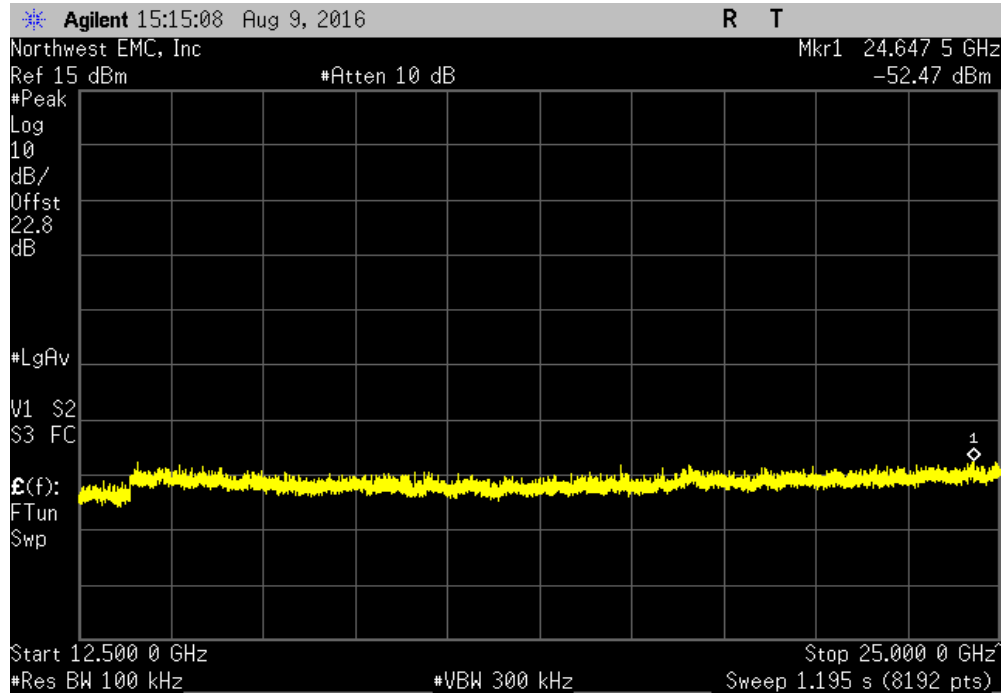


2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
Frequency Range		Max Value (dBc)		Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz		-44.9		-30	Pass	

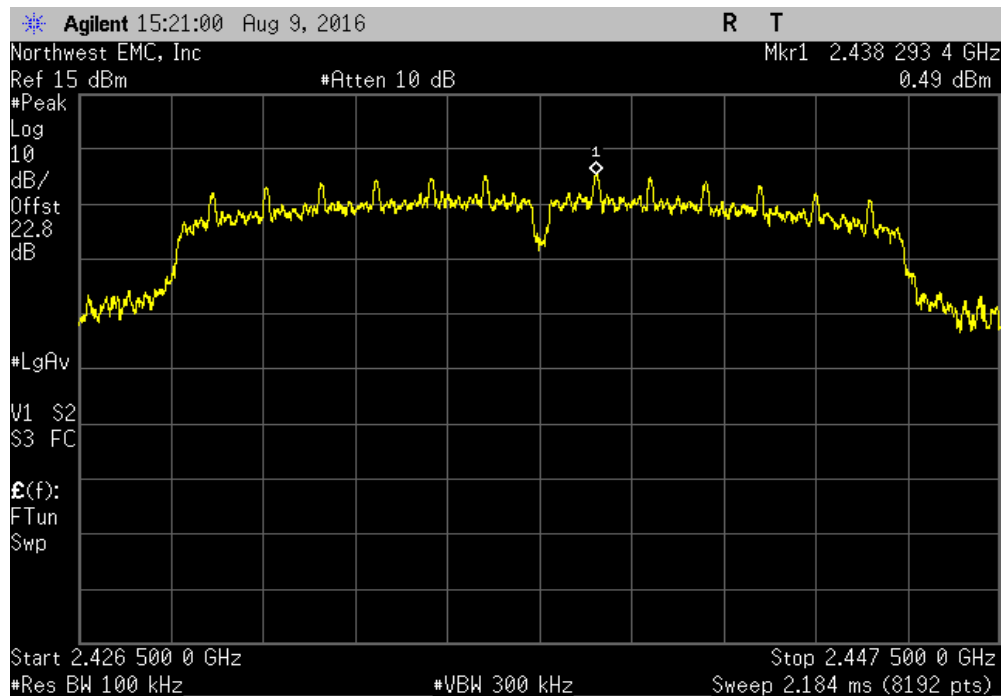


# SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-50.11	-30	Pass	

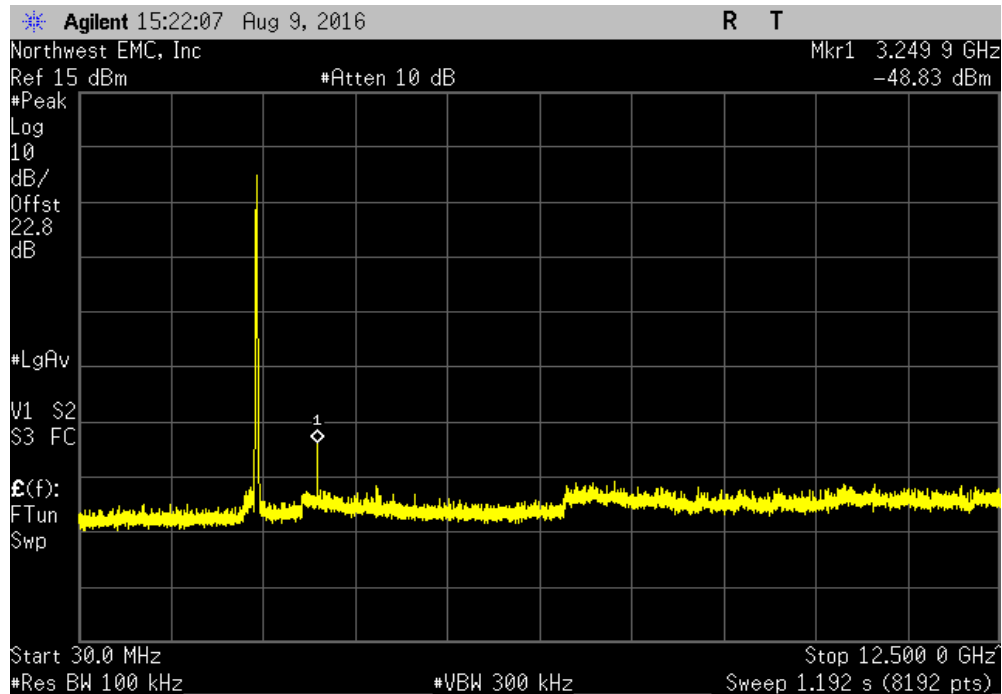


2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	N/A	N/A	N/A	

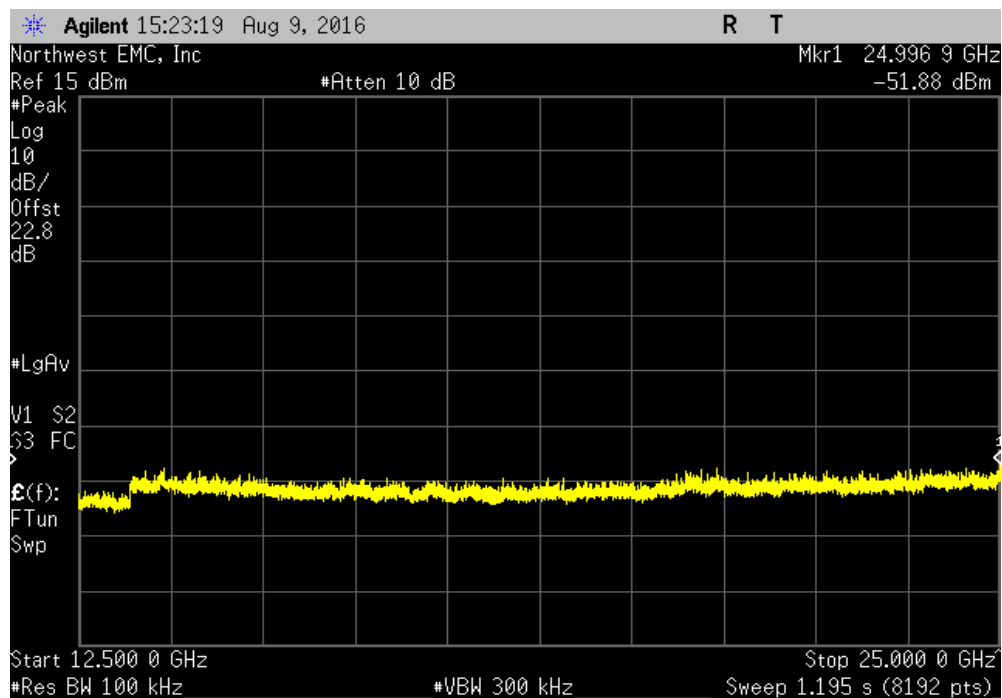


# SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	-49.32	-30	Pass	

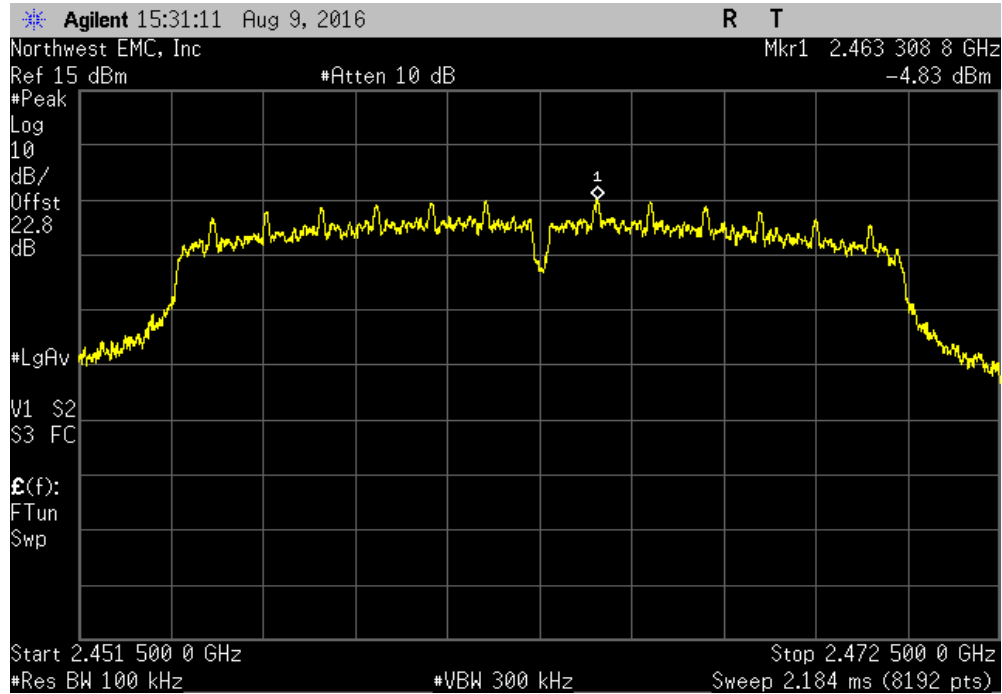


2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-52.37	-30	Pass	

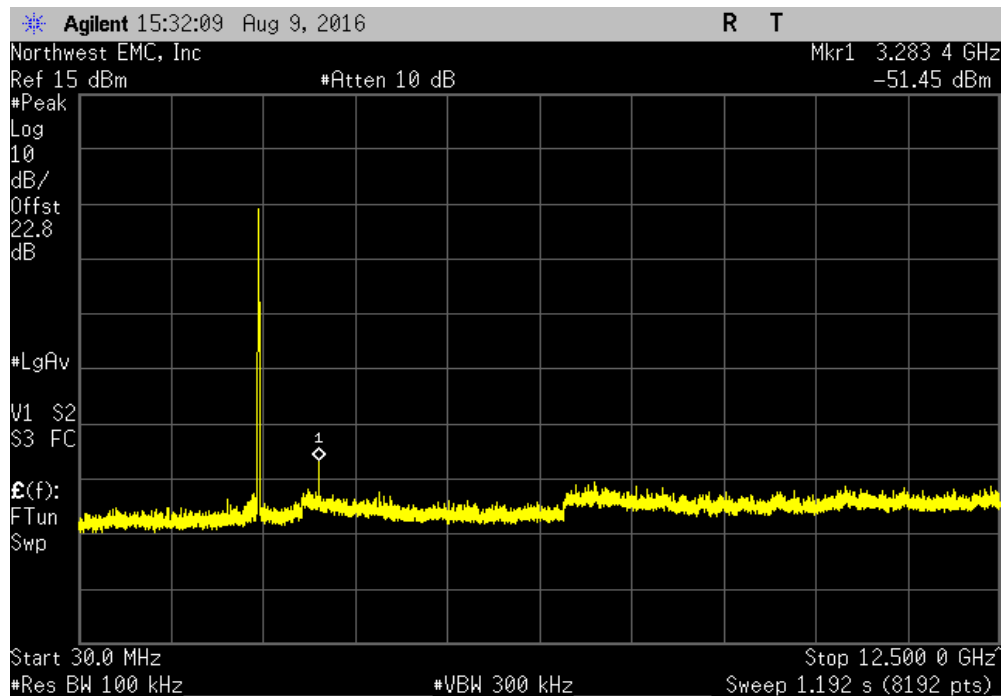


# SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
Frequency Range		Max Value (dBc)		Limit ≤ (dBc)	Result	
Fundamental		N/A		N/A	N/A	



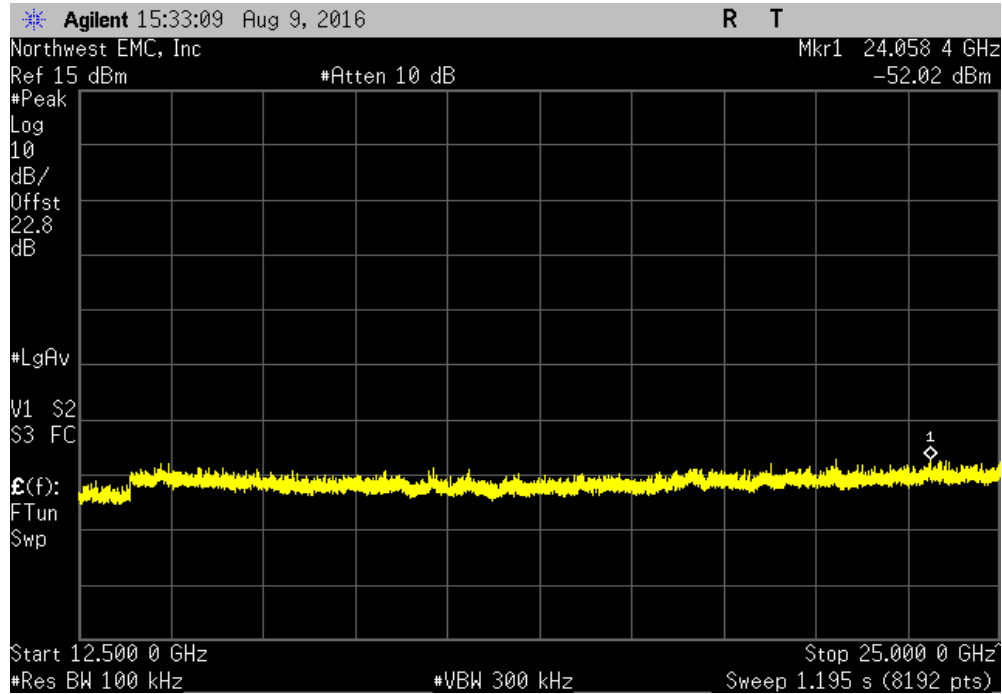
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
Frequency Range		Max Value (dBc)		Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz		-46.62		-30	Pass	



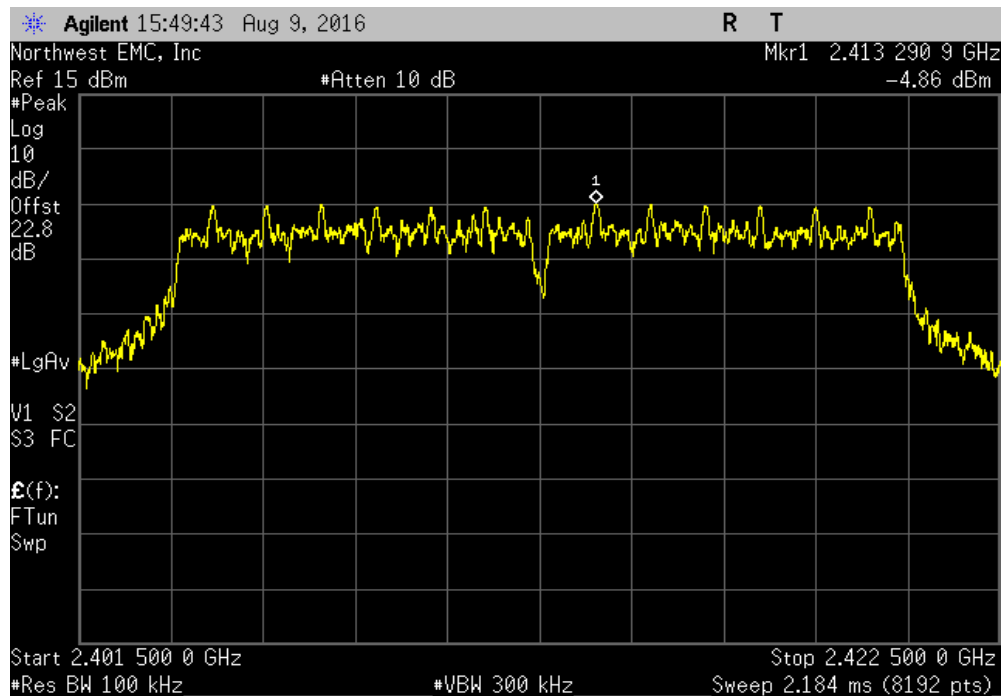


# SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-47.19	-30	Pass	

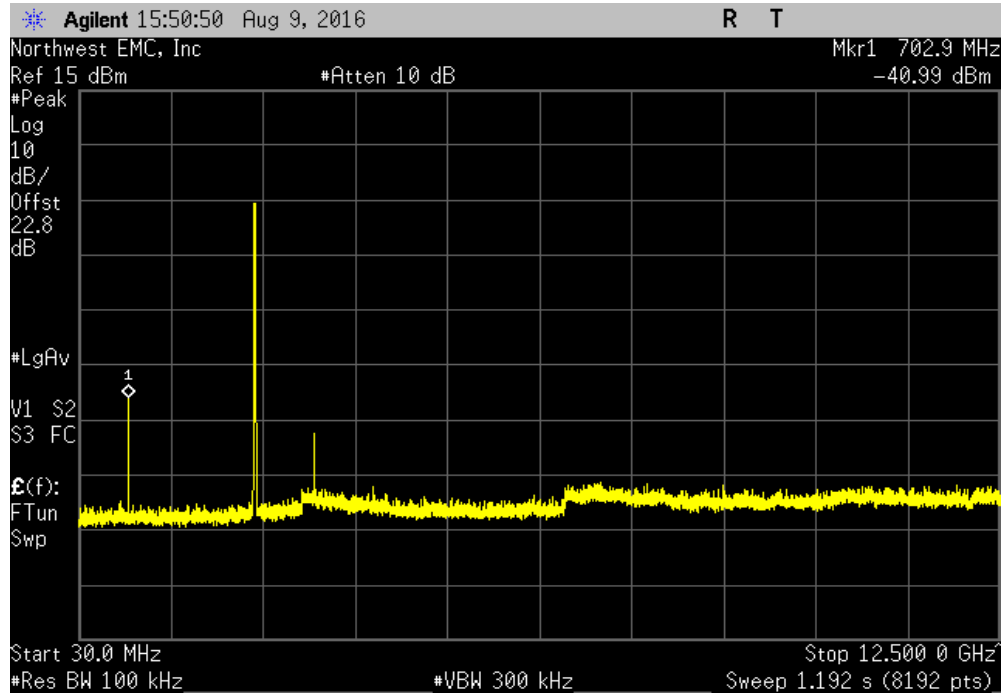


2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	N/A	N/A	N/A	

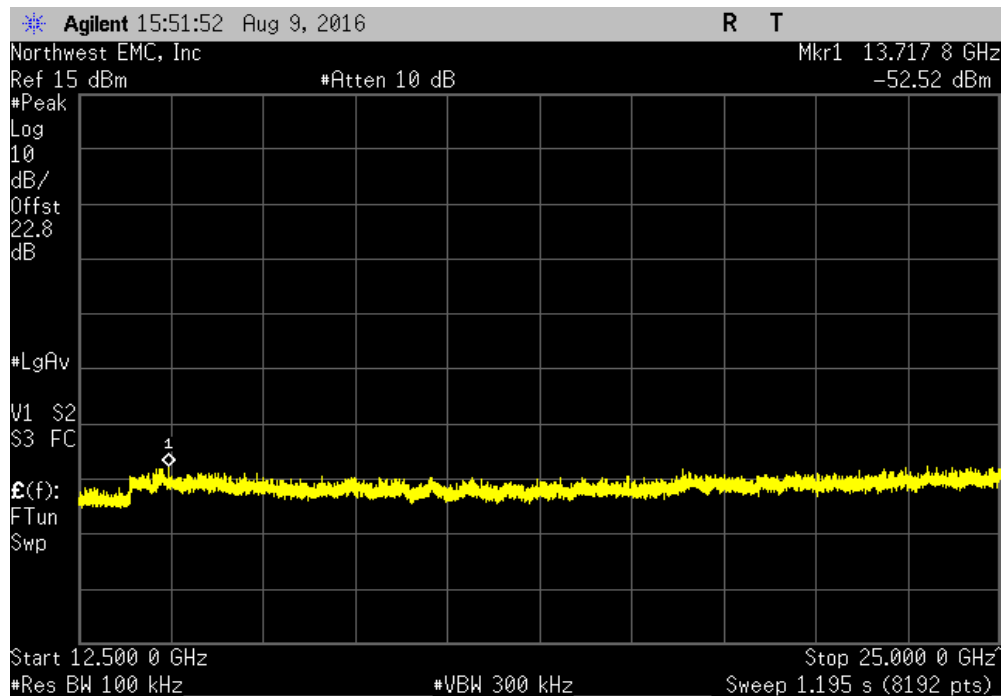


# SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	-36.13	-30	Pass	

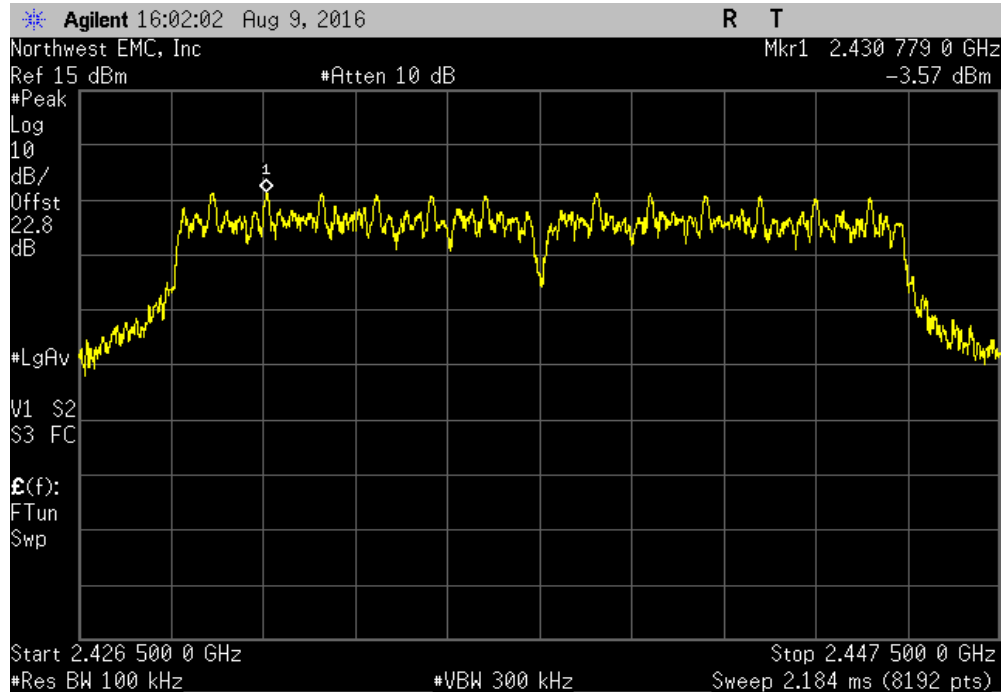


2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-47.66	-30	Pass	

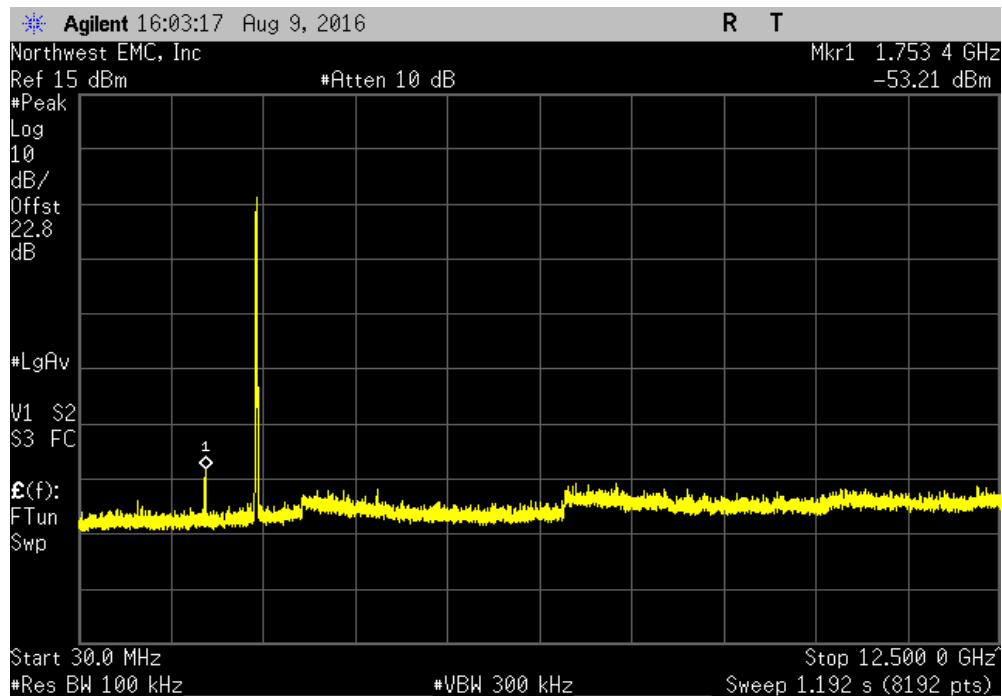


# SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
Frequency Range		Max Value (dBc)		Limit ≤ (dBc)	Result	
Fundamental		N/A		N/A	N/A	

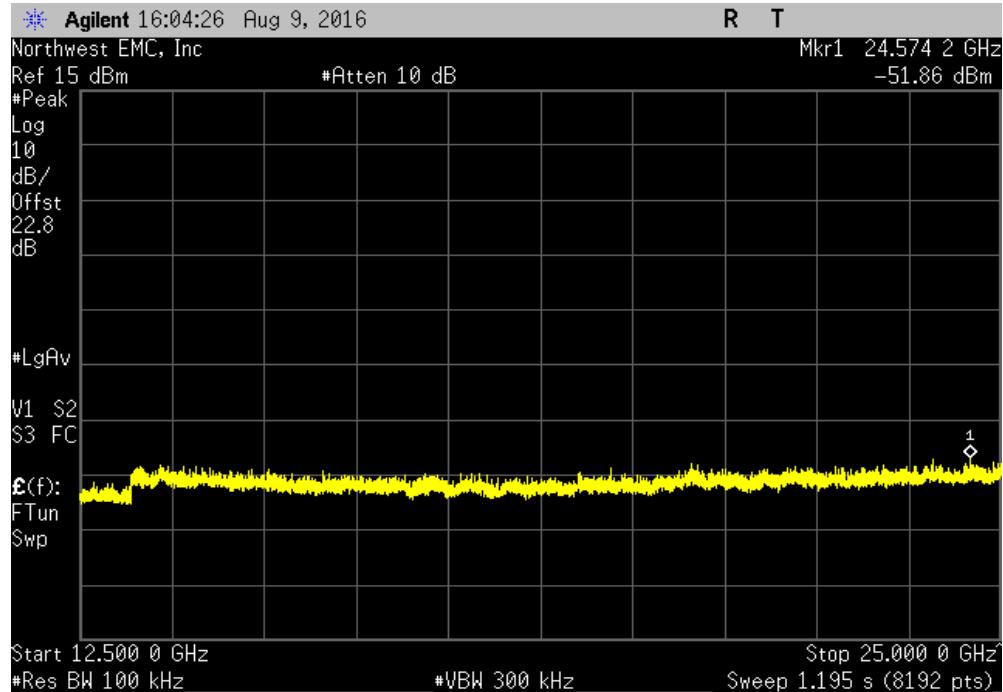


2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
Frequency Range		Max Value (dBc)		Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz		-49.64		-30	Pass	

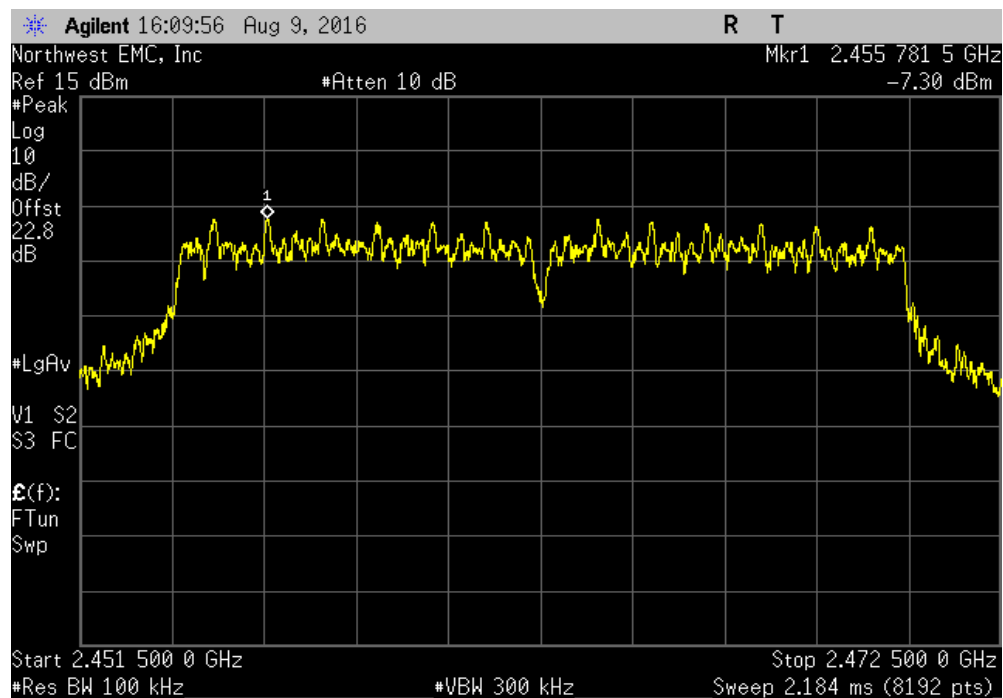


# SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-48.29	-30	Pass	

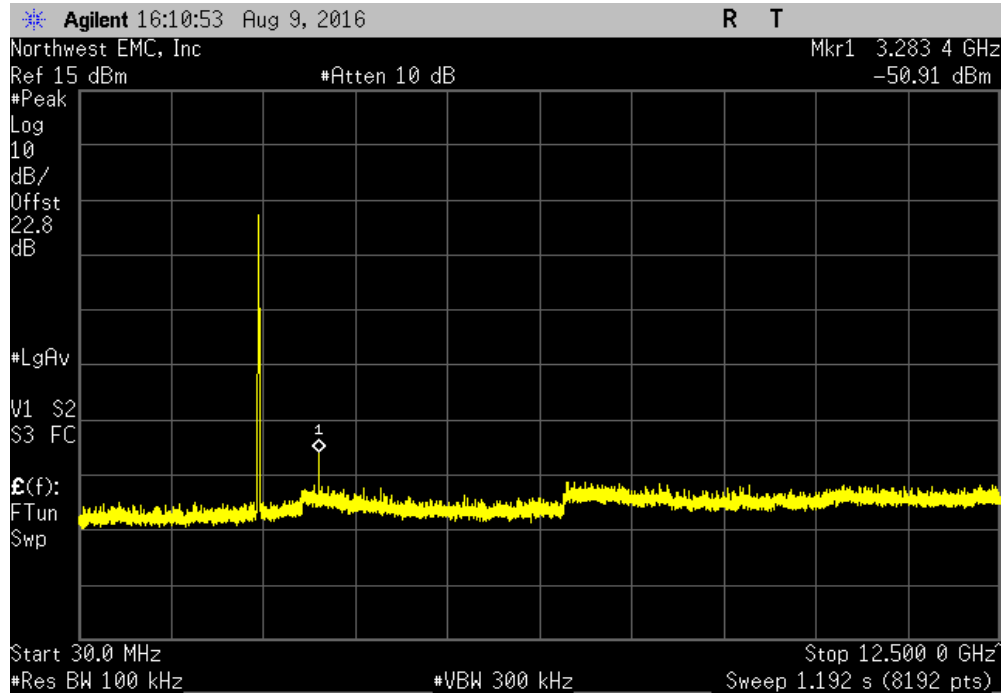


2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	N/A	N/A	N/A	

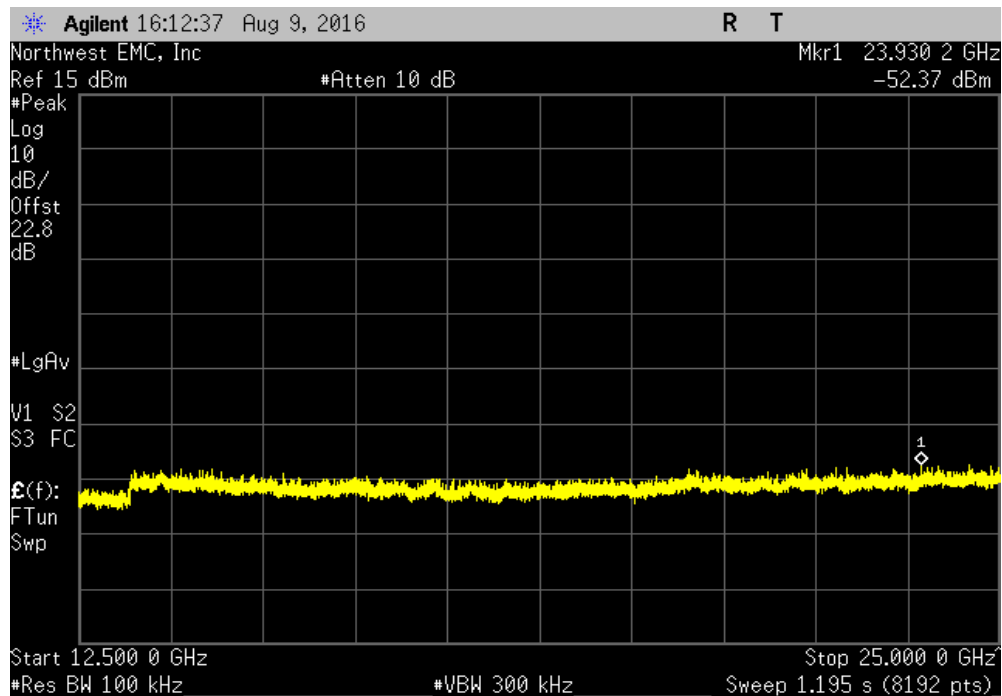


# SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	-43.61	-30	Pass	

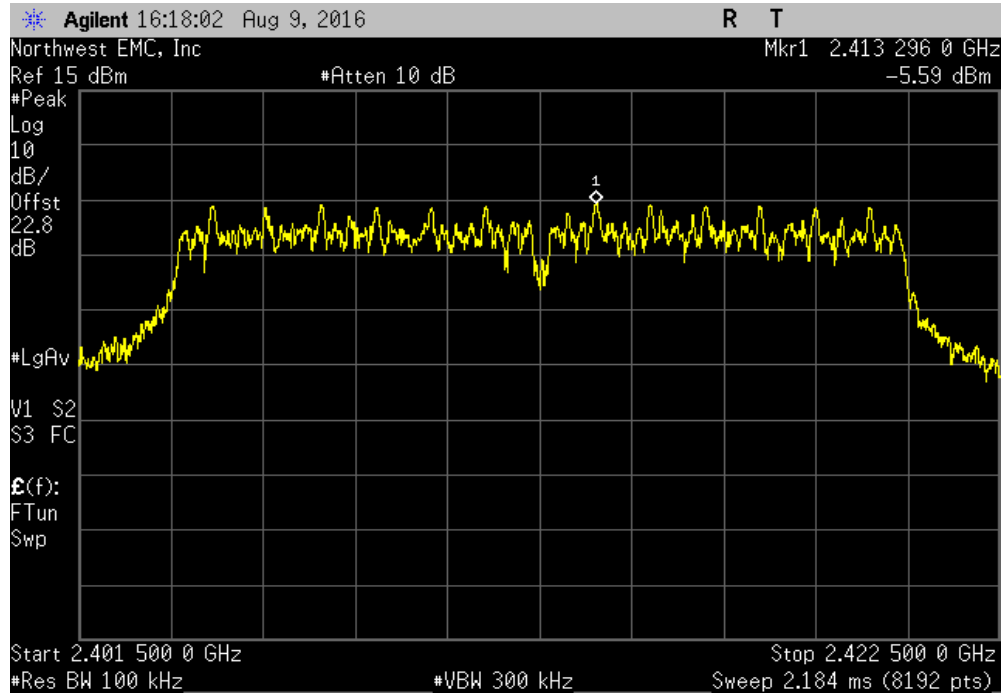


2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-45.07	-30	Pass	

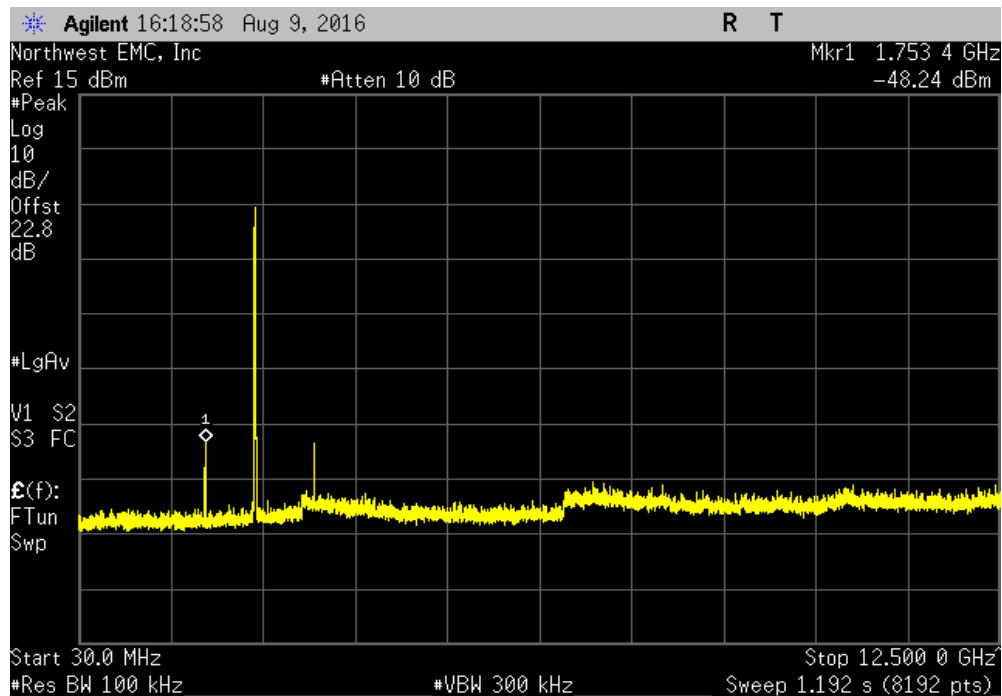


# SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
Frequency Range		Max Value (dBc)		Limit ≤ (dBc)	Result	
Fundamental		N/A		N/A	N/A	

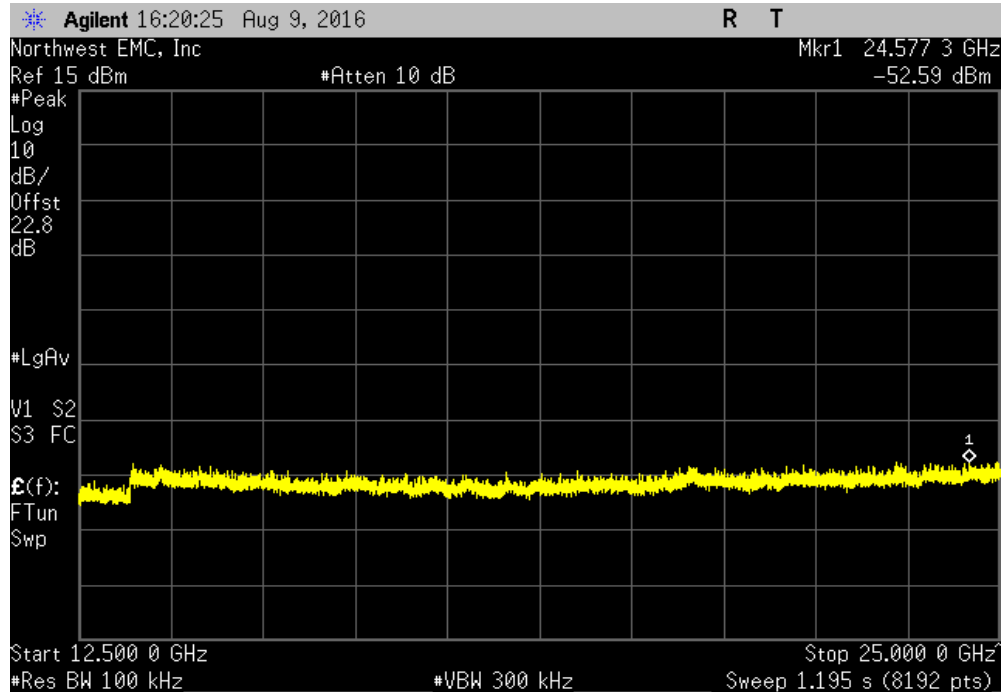


2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
Frequency Range		Max Value (dBc)		Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz		-42.64		-30	Pass	

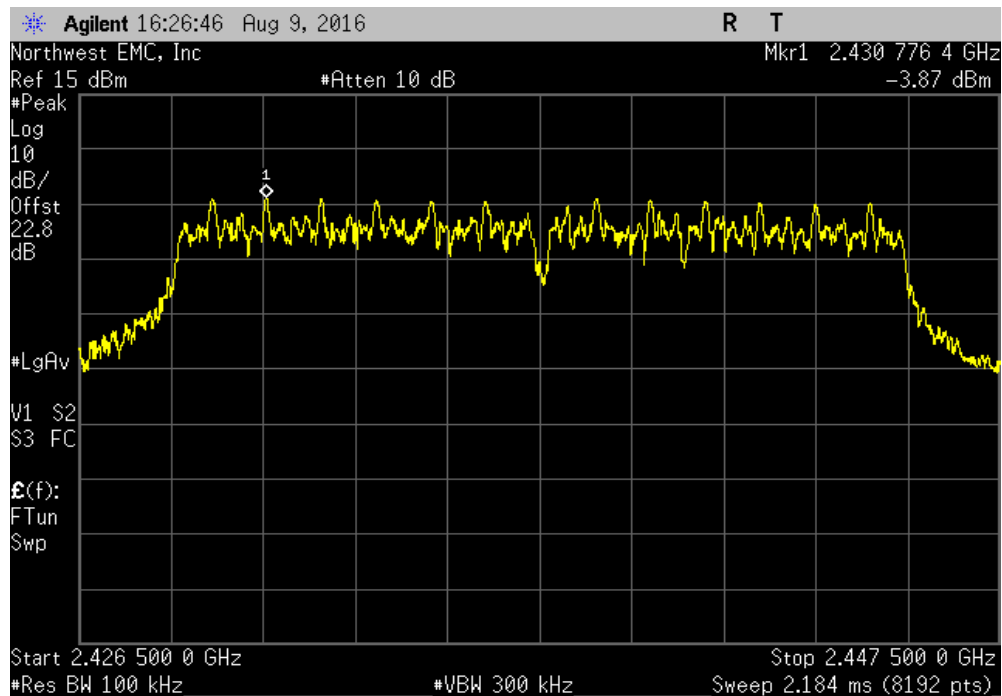


# SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-46.99	-30	Pass	

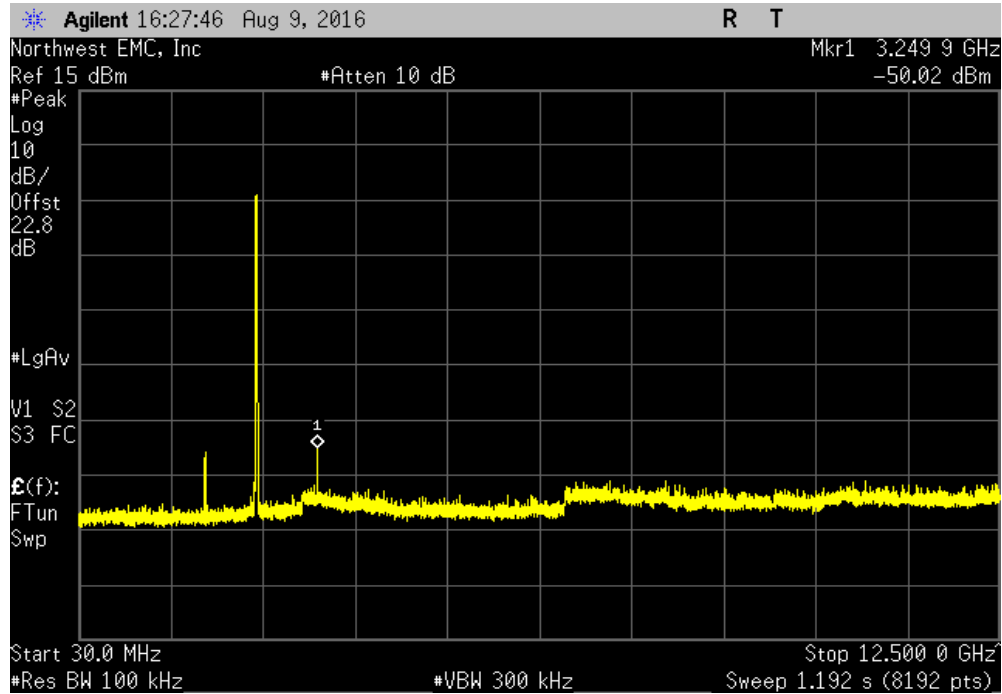


2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	N/A	N/A	N/A	

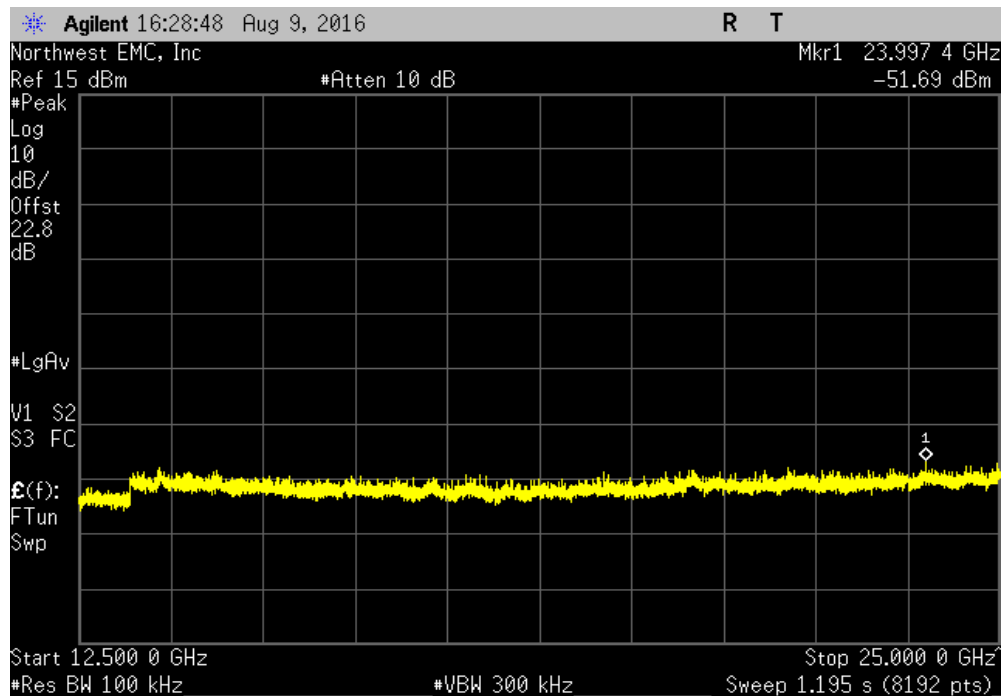


# SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	-46.15	-30	Pass	



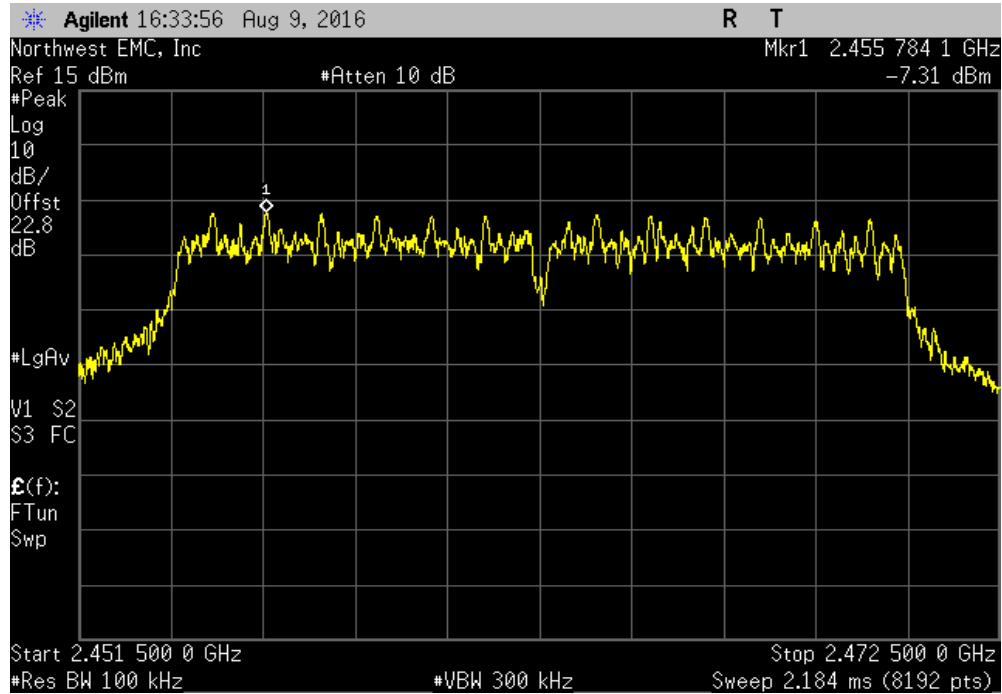
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-47.82	-30	Pass	



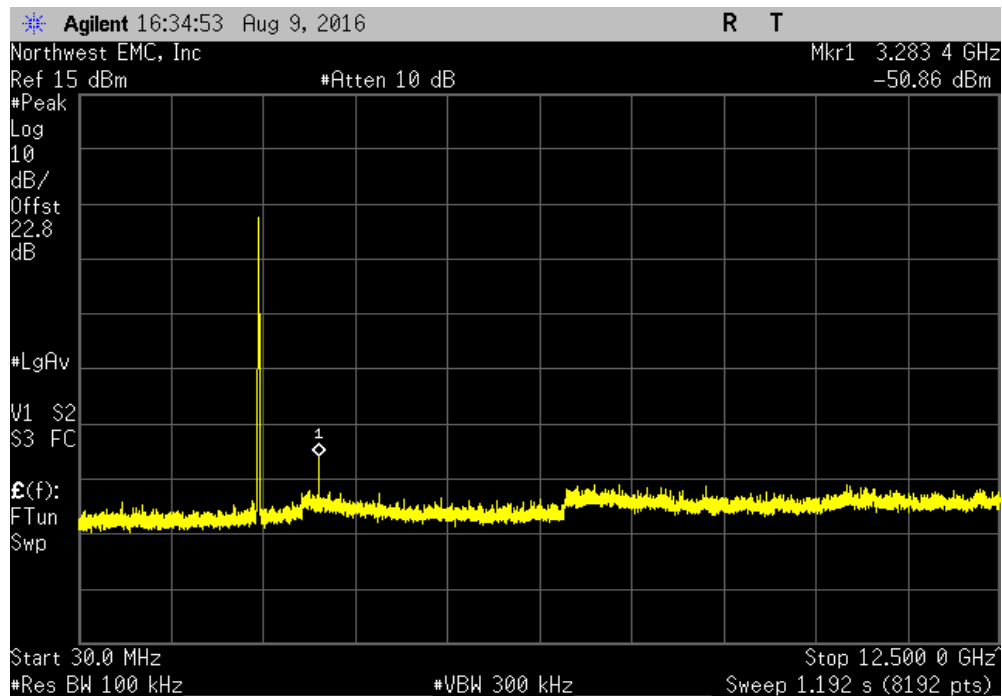


# SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
Frequency Range		Max Value (dBc)		Limit ≤ (dBc)	Result	
Fundamental		N/A		N/A	N/A	



2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
Frequency Range		Max Value (dBc)		Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz		-43.55		-30	Pass	



# SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-44.85	-30	Pass	

