

Awarepoint Corporation

BLEB

FCC 15.247:2016

802.11 bg SISO Radio Module

Report # AWAR0023.2





NVLAP Lab Code: 200676-0

CERTIFICATE OF TEST



Last Date of Test: August 8, 2016 Awarepoint Corporation Model: BLEB

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, 6.6, 11.12.1, 11.13.2	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 Description		Date	Page Number
00	None		

ACCREDITATIONS AND AUTHORIZATIONS



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 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

Canada

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.

European Union

European Commission - Validated by the European Commission 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

MSIP / 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.

Israel

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

Hong Kong

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

Vietnam

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

SCOPE

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 QM205.4.6. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) can be found included as part of the applicable test description page. 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.

Test	+ MU	<u>- MU</u>
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



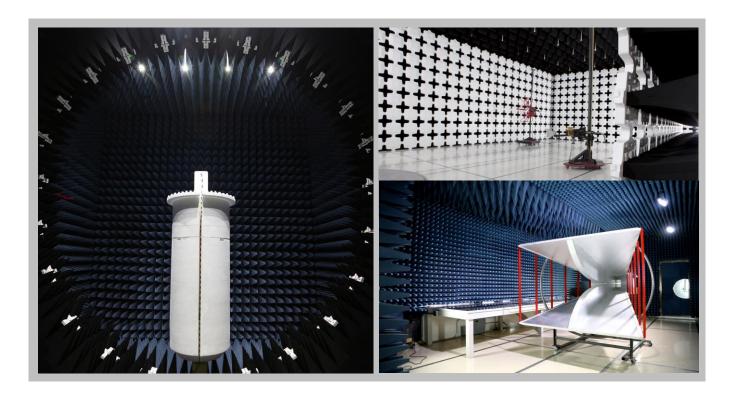




Minnesota Labs MN01-08, MN10 9349 W Broadway Ave. Brooklyn Park, MN 55445 (612)-638-5136 New York Labs NY01-04 4939 Jordan Rd. Elbridge, NY 13060 (315) 554-8214 Oregon Labs EV01-12 22975 NW Evergreen Pkwy Hillsboro, OR 97124 (503) 844-4066 **Texas**Labs TX01-09
3801 E Plano Pkwy
Plano, TX 75074
(469) 304-5255

WashingtonLabs NC01-05
19201 120th Ave NE
Bothell, WA 98011
(425)984-6600

(949) 861-8918	(612)-638-5136	(315) 554-8214	(503) 844-4066	(469) 304-5255	(425)984-6600		
NVLAP							
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		
	Innov	ation, Science and Eco	nomic Development Car	ada			
2834B-1, 2834B-3	2834E-1	N/A	2834D-1, 2834D-2	2834G-1	2834F-1		
	BSMI						
SL2-IN-E-1154R	SL2-IN-E-1152R	N/A	SL2-IN-E-1017	SL2-IN-E-1158R	SL2-IN-E-1153R		
VCCI							
A-0029	A-0109	N/A	A-0108	A-0201	A-0110		
Recognized Phase I CAB for ACMA, BSMI, IDA, KCC/RRA, MIC, MOC, NCC, OFCA							
US0158	US0175	N/A	US0017	US0191	US0157		

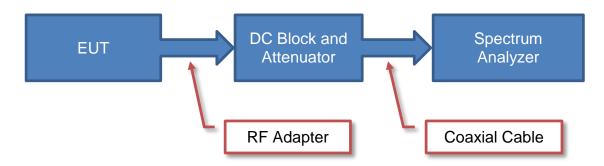


Report No. AWAR0023.2

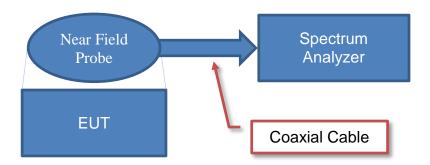
Test Setup Block Diagrams



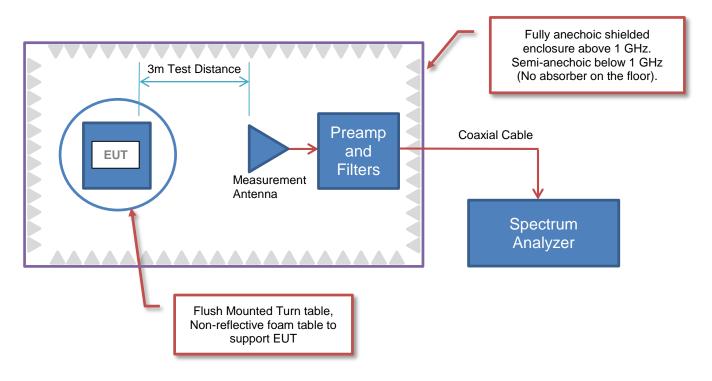
Antenna Port Conducted Measurements



Near Field Test Fixture Measurements



Spurious Radiated Emissions



Report No. AWAR0023.2 7/93

PRODUCT DESCRIPTION



Client and Equipment Under Test (EUT) Information

Company Name:	Awarepoint Corporation
Address:	600 W. Broadway Suite 250
City, State, Zip:	San Diego, CA 92101
Test Requested By:	John Taylor
Model:	BLEB
First Date of Test:	August 1, 2016
Last Date of Test:	August 8, 2016
Receipt Date of Samples:	July 26, 2016
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT:

BLE Beacon: Primarily a Bluetooth low energy broadcaster (transmitter) that sends out beacon messages at a typical 5 per second rate. Periodically (about once per day) this device will connect to a WiFi access point for configuration and firmware updates.

Testing Objective:

To demonstrate compliance of the 802.11 radio under FCC 15.247 for operation in the 2.4 GHz band.

CONFIGURATIONS



Configuration AWAR0023-3

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	BLEB	QS15260346

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	0.75m	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

Report No. AWAR0023.2

MODIFICATIONS



Equipment Modifications

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

Report No. AWAR0023.2



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

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.

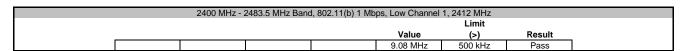
The 6dB occupied bandwidth was measured using 100 kHz resolution bandwidth and 300 kHz video bandwidth. The 99.0% occupied bandwidth was also measured at the same time which can be needed during Output Power depending on the applicable method.



	BLEB				
Serial Number	: QS15260346		Date:	08/08/16	
Customer	: Awarepoint Corporation		Temperature:	22.4 °C	
Attendees					
Project					
	: Mike Tran	Power: USB Powered	Job Site:	9.08 MHz 500 kHz Pa 9.084 MHz 500 kHz Pa 9.107 MHz 500 kHz Pa 9.266 MHz 500 kHz Pa 9.266 MHz 500 kHz Pa 10.44 MHz 500 kHz Pa 14.872 MHz 500 kHz Pa 14.979 MHz 500 kHz Pa 15.093 MHz 500 kHz Pa 16.386 MHz 500 kHz Pa	
TEST SPECIFICAT	TONS	Test Method			
FCC 15.247:2016		ANSI C63.10:2013			
COMMENTS					
Total reference lev	rel offset: DC Block + 20dB attenuator + RF Cable + Pa	atch Cable = 22.75 dB. Power setting = 0			
	M TEST STANDARD				
None					
Configuration #	3	And they			
Comiguration #	Signature	To the day			
	Signature			Limit	
			Value		Result
2400 MHz - 2483.5	MHz Band		Vuide	(-)	resuit
2100111112 210010	802.11(b) 1 Mbps				
	Low Channel 1, 2412 MHz		9.08 MHz	500 kHz	Pass
	Mid Channel 6, 2437 MHz				Pass
	High Channel 11, 2462 MHz		9.107 MHz	500 kHz	Pass
	802.11(b) 11 Mbps				
	Low Channel 1, 2412 MHz		9.266 MHz	500 kHz	Pass
	Mid Channel 6, 2437 MHz				Pass
	High Channel 11, 2462 MHz		10.44 MHz	500 kHz	Pass
	802.11(g) 6 Mbps				
	Low Channel 1, 2412 MHz				Pass
	Mid Channel 6, 2437 MHz				Pass
	High Channel 11, 2462 MHz		15.093 MHz	500 kHz	Pass
	802.11(g) 36 Mbps				_
	Low Channel 1, 2412 MHz				Pass
	Mid Channel 6, 2437 MHz				Pass
	High Channel 11, 2462 MHz		16.037 MHz	500 kHz	Pass
	802.11(g) 54 Mbps		40.450 MHz	500 LU-	D
	Low Channel 1, 2412 MHz		16.152 MHz	500 kHz	Pass
	Mid Channel 6, 2437 MHz		16.307 MHz	500 kHz	Pass
	High Channel 11, 2462 MHz		15.967 MHz	500 kHz	Pass

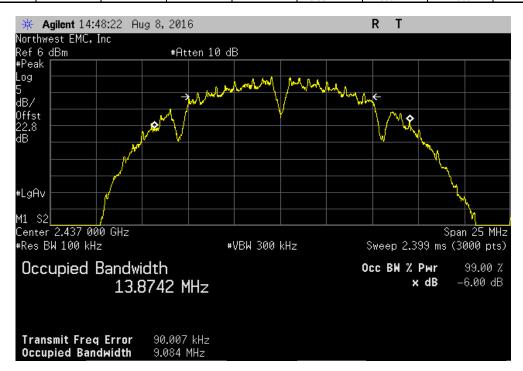
Report No. AWAR0023.2



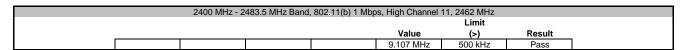




	2400 MHz -	2483.5 MHz Band	d, 802.11(b) 1 Mb	ps, Mid Channel	6, 2437 MHz		
					Limit		
				Value	(>)	Result	_
				9.084 MHz	500 kHz	Pass	ĺ





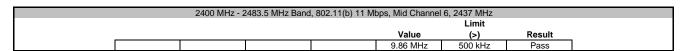


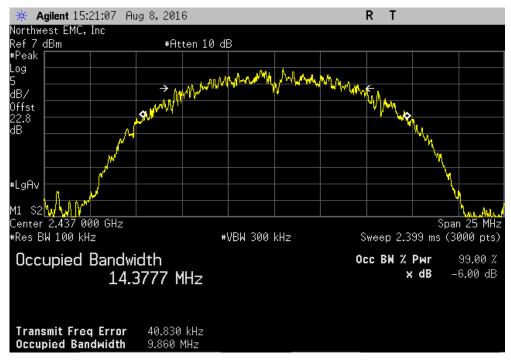


	2400 MHz - 2	2483.5 MHz Band	, 802.11(b) 11 Mb	ps, Low Channel	l 1, 2412 MHz		
					Limit		
_				Value	(>)	Result	_
				9.266 MHz	500 kHz	Pass	

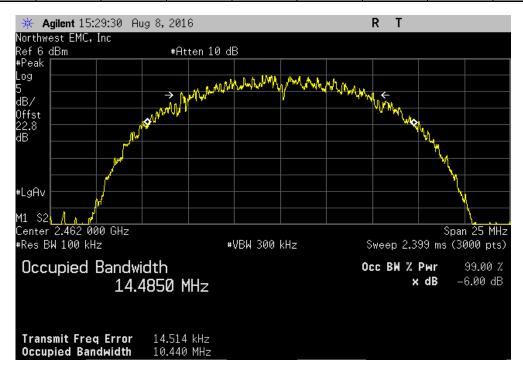




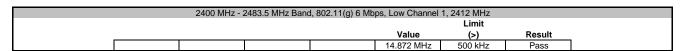


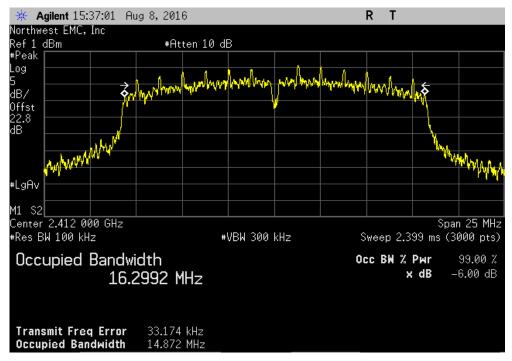


	2400 MHz - 24	483.5 MHz Band,	802.11(b) 11 Mb	ps, High Channel	11, 2462 MHz		
					Limit		
				Value	(>)	Result	
				10.44 MHz	500 kHz	Pass	

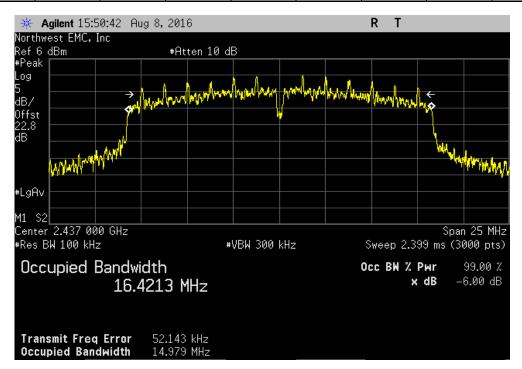




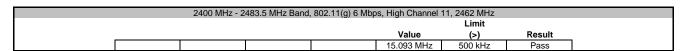


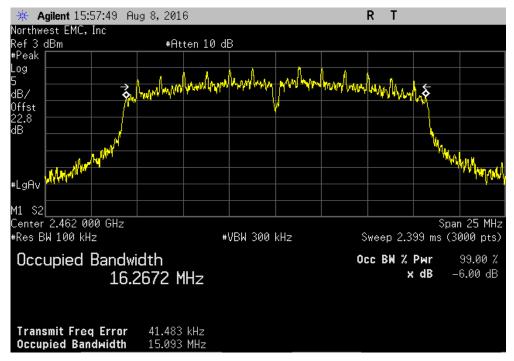


	2400 MHz -	2483.5 MHz Band	d, 802.11(g) 6 Mb	ps, Mid Channel	6, 2437 MHz	
					Limit	
				Value	(>)	Result
				14.979 MHz	500 kHz	Pass

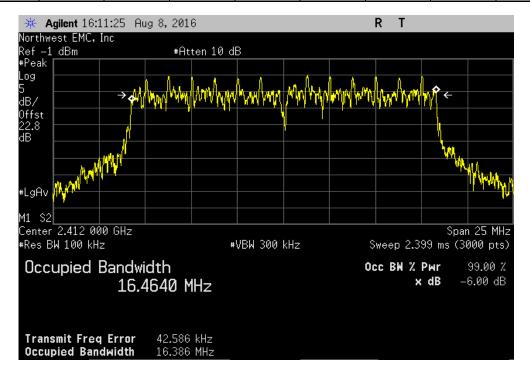




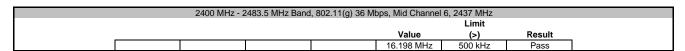


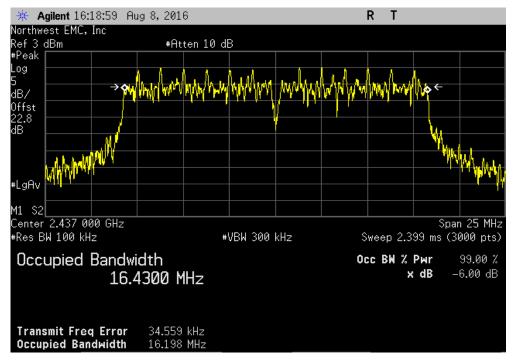


	2400 MHz - 2	483.5 MHz Band	, 802.11(g) 36 Mi	ps, Low Channel	1, 2412 MHz	
					Limit	
				Value	(>)	Result
				16.386 MHz	500 kHz	Pass

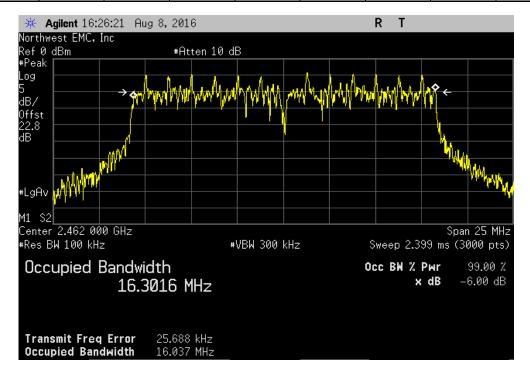




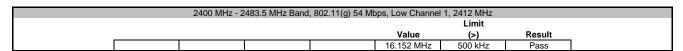


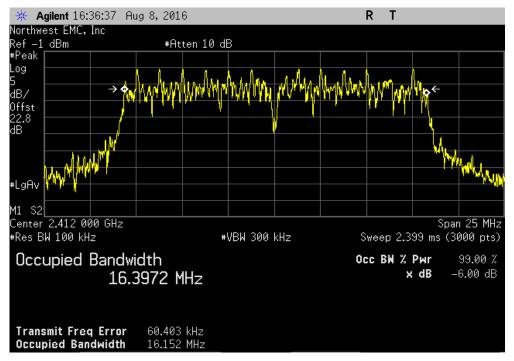


	2400 MHz - 24	183.5 MHz Band,	802.11(g) 36 Mb	os, High Channel	11, 2462 MHz	
					Limit	
				Value	(>)	Result
				16.037 MHz	500 kHz	Pass

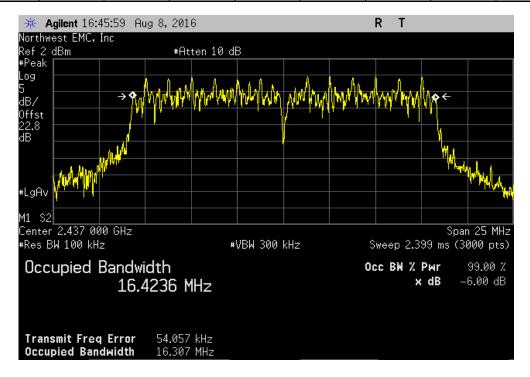






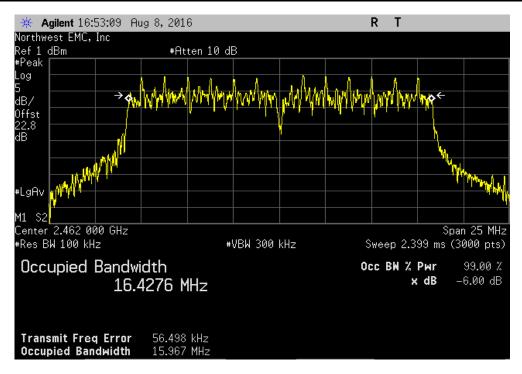


	2400 MHz - 2	2483.5 MHz Band	, 802.11(g) 54 M	pps, Mid Channel	6, 2437 MHz	
					Limit	
				Value	(>)	Result
				16.307 MHz	500 kHz	Pass





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

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

POWER SETTINGS INVESTIGATED

USB Powered

CONFIGURATIONS INVESTIGATED

AWAR0023 - 3

FREQUENCY RANGE INVESTIGATED

Start Frequency 30 MHz Stop Frequency 26000 MHz

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.	Intomial
Description			ID		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.

Report No. AWAR0023.2

SPURIOUS RADIATED EMISSIONS

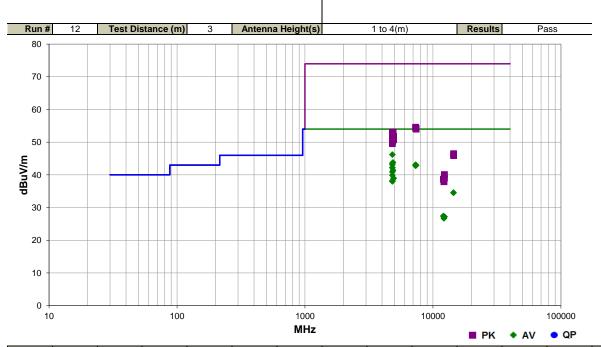


22/93

Work Order:	AWAR0023	Date:	08/01/16	
				Lind cluy
Project:		Temperature:	21.9 °C	wow day
Job Site:	OC03	Humidity:	46% RH	
Serial Number:	QS15260346	Barometric Pres.:	1017 mbar	Tested by: Mike Tran
EUT:	BLEB			
Configuration:	3			
Customer:	Awarepoint Corporation	on		
Attendees:	None			
EUT Power:	USB Powered			
Operating Mode:	Transmitting 802.11b	g at Low Channel 1(241	2MHz), Mid Channe	el 6(2437MHz), and High Channel 11(2462MHz)
Deviations:	None			
Comments:	None			

 Test Specifications
 Test Method

 FCC 15.247:2016
 ANSI C63.10:2013



Freq	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)	
(MHz)	(ubur)	(45)	(motoro)	(dog.ooo)	(motoro)	(42)			(05)	(02017111)	(dDd v/iii)	(05)	Comments
4823.992	35.7	10.5	1.0	244.0	3.0	0.0	Horz	AV	0.0	46.2	54.0	-7.8	Low Ch 1, 1Mbps, EUT on Side
4874.042	33.2	10.6	1.7	216.0	3.0	0.0	Horz	AV	0.0	43.8	54.0	-10.2	Mid Ch 6, 1Mbps, EUT on Side
4824.083	33.1	10.5	1.0	335.0	3.0	0.0	Vert	AV	0.0	43.6	54.0	-10.4	Low Ch 1, 1Mbps, EUT Horz
4824.017	32.6	10.5	1.7	168.0	3.0	0.0	Vert	AV	0.0	43.1	54.0	-10.9	Low Ch 1, 1Mbps, EUT Vert
7311.450	26.9	16.2	1.7	77.0	3.0	0.0	Vert	AV	0.0	43.1	54.0	-10.9	Mid Ch 6, 1Mbps, EUT Horz
7387.917	26.6	16.4	1.7	131.0	3.0	0.0	Vert	AV	0.0	43.0	54.0	-11.0	High Ch 11, 1Mbps, EUT Horz
7388.375	26.5	16.4	1.7	346.0	3.0	0.0	Horz	AV	0.0	42.9	54.0	-11.1	High Ch 11, 1Mbps, EUT on Side
7311.608	26.6	16.2	1.7	84.0	3.0	0.0	Horz	AV	0.0	42.8	54.0	-11.2	Mid Ch 6, 1Mbps, EUT on Side
4824.067	31.7	10.5	1.7	218.0	3.0	0.0	Horz	AV	0.0	42.2	54.0	-11.8	Low Ch 1, 1Mbps, EUT Horz
4824.008	31.7	10.5	1.7	216.0	3.0	0.0	Horz	AV	0.0	42.2	54.0	-11.8	Low Ch 1, 1Mbps, EUT Vert
4874.017	30.8	10.6	1.7	4.0	3.0	0.0	Vert	AV	0.0	41.4	54.0	-12.6	Mid Ch 6, 1Mbps, EUT Horz
4824.025	30.4	10.5	1.7	203.0	3.0	0.0	Horz	AV	0.0	40.9	54.0	-13.1	Low Ch 1, 11Mbps, EUT on Side
4823.983	29.4	10.5	1.9	348.0	3.0	0.0	Vert	AV	0.0	39.9	54.0	-14.1	Low Ch 1, 1Mbps, EUT on Side
4924.458	28.3	10.7	1.7	197.0	3.0	0.0	Horz	AV	0.0	39.0	54.0	-15.0	High Ch 11, 1Mbps, EUT on Side
4923.883	28.2	10.7	1.7	148.0	3.0	0.0	Vert	AV	0.0	38.9	54.0	-15.1	High Ch 11, 1Mbps, EUT Horz
4826.342	27.7	10.5	1.7	203.0	3.0	0.0	Horz	AV	0.0	38.2	54.0	-15.8	Low Ch 1, 6Mbps, EUT on Side
4824.583	27.6	10.5	1.7	203.0	3.0	0.0	Horz	AV	0.0	38.1	54.0	-15.9	Low Ch 1, 54Mbps, EUT on Side
4825.433	27.5	10.5	1.7	203.0	3.0	0.0	Horz	AV	0.0	38.0	54.0	-16.0	Low Ch 1, 36Mbps, EUT on Side
7312.442	38.4	16.2	1.7	77.0	3.0	0.0	Vert	PK	0.0	54.6	74.0	-19.4	Mid Ch 6, 1Mbps, EUT Horz
14472.300	28.0	6.6	1.7	48.0	3.0	0.0	Horz	AV	0.0	34.6	54.0	-19.4	Low Ch 1, 1Mbps, EUT on Side
14472.190	27.9	6.6	2.9	214.0	3.0	0.0	Vert	AV	0.0	34.5	54.0	-19.5	Low Ch 1, 1Mbps, EUT Horz
7310.008	38.1	16.2	1.7	84.0	3.0	0.0	Horz	PK	0.0	54.3	74.0	-19.7	Mid Ch 6, 1Mbps, EUT on Side
7385.533	37.8	16.4	1.7	131.0	3.0	0.0	Vert	PK	0.0	54.2	74.0	-19.8	High Ch 11, 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
7383.967	37.6	16.4	1.7	346.0	3.0	0.0	Horz	PK	0.0	54.0	74.0	-20.0	High Ch 11, 1Mbps, EUT on Side
4823.933	42.6	10.5	1.0	244.0	3.0	0.0	Horz	PK	0.0	53.1	74.0	-20.9	Low Ch 1, 1Mbps, EUT on Side
4873.675	42.5	10.6	1.7	216.0	3.0	0.0	Horz	PK	0.0	53.1	74.0	-20.9	Mid Ch 6, 1Mbps, EUT on Side
4823.792	41.4	10.5	1.7	203.0	3.0	0.0	Horz	PK	0.0	51.9	74.0	-22.1	Low Ch 1, 11Mbps, EUT on Side
4922.750	41.1	10.7	1.7	197.0	3.0	0.0	Horz	PK	0.0	51.8	74.0	-22.2	High Ch 11, 1Mbps, EUT on Side
4823.700	41.1	10.5	1.0	335.0	3.0	0.0	Vert	PK	0.0	51.6	74.0	-22.4	Low Ch 1, 1Mbps, EUT Horz
4874.217	40.9	10.6	1.7	4.0	3.0	0.0	Vert	PK	0.0	51.5	74.0	-22.5	Mid Ch 6, 1Mbps, EUT Horz
4823.342	40.8	10.5	1.7	218.0	3.0	0.0	Horz	PK	0.0	51.3	74.0	-22.7	Low Ch 1, 1Mbps, EUT Horz
4823.958	40.8	10.5	1.7	216.0	3.0	0.0	Horz	PK	0.0	51.3	74.0	-22.7	Low Ch 1, 1Mbps, EUT Vert
4824.208	40.7	10.5	1.7	168.0	3.0	0.0	Vert	PK	0.0	51.2	74.0	-22.8	Low Ch 1, 1Mbps, EUT Vert
4925.058	40.0	10.7	1.7	148.0	3.0	0.0	Vert	PK	0.0	50.7	74.0	-23.3	High Ch 11, 1Mbps, EUT Horz
4824.117	39.9	10.5	1.9	348.0	3.0	0.0	Vert	PK	0.0	50.4	74.0	-23.6	Low Ch 1, 1Mbps, EUT on Side
4823.783	39.8	10.5	1.7	203.0	3.0	0.0	Horz	PK	0.0	50.3	74.0	-23.7	Low Ch 1, 6Mbps, EUT on Side
4822.625	39.6	10.5	1.7	203.0	3.0	0.0	Horz	PK	0.0	50.1	74.0	-23.9	Low Ch 1, 36Mbps, EUT on Side
4824.283	39.1	10.5	1.7	203.0	3.0	0.0	Horz	PK	0.0	49.6	74.0	-24.4	Low Ch 1, 54Mbps, EUT on Side
12058.920	35.7	-8.3	1.7	203.0	3.0	0.0	Vert	AV	0.0	27.4	54.0	-26.6	Low Ch 1, 1Mbps, EUT Horz
12058.320	35.7	-8.3	1.7	303.0	3.0	0.0	Horz	AV	0.0	27.4	54.0	-26.6	Low Ch 1, 1Mbps, EUT on Side
12307.580	35.1	-7.9	1.7	236.0	3.0	0.0	Horz	AV	0.0	27.2	54.0	-26.8	High Ch 11, 1Mbps, EUT on Side
12307.590	35.1	-7.9	1.9	208.0	3.0	0.0	Vert	AV	0.0	27.2	54.0	-26.8	High Ch 11, 1Mbps, EUT Horz
12183.120	34.8	-8.0	1.7	336.0	3.0	0.0	Horz	AV	0.0	26.8	54.0	-27.2	Mid Ch 6, 1Mbps, EUT on Side
12182.720	34.7	-8.0	1.7	182.0	3.0	0.0	Vert	AV	0.0	26.7	54.0	-27.3	Mid Ch 6, 1Mbps, EUT Horz
14473.090	39.9	6.6	1.7	48.0	3.0	0.0	Horz	PK	0.0	46.5	74.0	-27.5	Low Ch 1, 1Mbps, EUT on Side
14473.500	39.3	6.6	2.9	214.0	3.0	0.0	Vert	PK	0.0	45.9	74.0	-28.1	Low Ch 1, 1Mbps, EUT Horz
12309.760	48.0	-7.9	1.9	208.0	3.0	0.0	Vert	PK	0.0	40.1	74.0	-33.9	High Ch 11, 1Mbps, EUT Horz
12310.440	46.9	-7.9	1.7	236.0	3.0	0.0	Horz	PK	0.0	39.0	74.0	-35.0	High Ch 11, 1Mbps, EUT on Side
12058.410	47.0	-8.3	1.7	203.0	3.0	0.0	Vert	PK	0.0	38.7	74.0	-35.3	Low Ch 1, 1Mbps, EUT Horz
12058.050	47.0	-8.3	1.7	303.0	3.0	0.0	Horz	PK	0.0	38.7	74.0	-35.3	Low Ch 1, 1Mbps, EUT on Side
12182.580	45.9	-8.0	1.7	182.0	3.0	0.0	Vert	PK	0.0	37.9	74.0	-36.1	Mid Ch 6, 1Mbps, EUT Horz
12184.830	45.9	-8.0	1.7	336.0	3.0	0.0	Horz	PK	0.0	37.9	74.0	-36.1	Mid Ch 6, 1Mbps, EUT on Side

SPURIOUS RADIATED EMISSIONS



				EmiR5 2016.04.26.1
Work Order:	AWAR0023	Date:	08/01/16	
Project:	None	Temperature:	21.9 °C	And duy
Job Site:	OC03	Humidity:	46% RH	
Serial Number:	QS15260346	Barometric Pres.:	1017 mbar	Tested by: Mike Tran
EUT:	BLEB			
Configuration:	3			
Customer:	Awarepoint Corporation	on		
Attendees:	None			
EUT Power:	USB Powered			
Operating Mode:	Transmitting 802.11bg	g at Low Channel 1(2412	MHz) and High Cha	nnel 11(2462MHz)
Deviations:	None			
Comments:	None			

Specifi 15.247	ications :2016										ANS	t Meth SI C63	i od .10:20	013						
Run #	16	Test	Dista	ance	(m)	3	Ant	tenn	а Н	eight(s)		1 to	4(m)		Res	ults	Pa	ass
80																				
70																				
60																				
50												•								
40																				
30																				
20																				
10																				
0 10					100					1000						0000				1000

Freq	Amplitude	Factor	Antenna Height	Azimuth	Test Distance	External Attenuation	Polarity/ Transducer Type	Detector	Distance Adjustment	Adjusted	Spec. Limit	Compared to Spec.	
(MHz)	(dBuV)	(dB)	(meters)	(degrees)	(meters)	(dB)			(dB)	(dBuV/m)	(dBuV/m)	(dB)	Comments
2483.667	28.5	1.8	1.7	331.0	3.0	20.0	Horz	AV	0.0	50.3	54.0	-3.7	High Ch 11, 6Mbps, EUT on Side
2485.127	28.4	1.8	1.7	252.0	3.0	20.0	Horz	AV	0.0	50.2	54.0	-3.8	High Ch 11, 6Mbjps, EUT Horz
2485.220	28.4	1.8	1.7	331.0	3.0	20.0	Horz	AV	0.0	50.2	54.0	-3.8	High Ch 11, 1Mbps, EUT on Side
2484.260	28.4	1.8	1.7	331.0	3.0	20.0	Horz	AV	0.0	50.2	54.0	-3.8	High Ch 11, 11Mbps, EUT on Side
2483.650	28.3	1.8	4.0	193.0	3.0	20.0	Vert	AV	0.0	50.1	54.0	-3.9	High Ch 11, 6Mbps, EUT Vert
2484.720	28.2	1.8	1.7	127.0	3.0	20.0	Vert	AV	0.0	50.0	54.0	-4.0	High Ch 11, 6Mbps, EUT on Side
2484.913	28.2	1.8	1.7	73.0	3.0	20.0	Horz	AV	0.0	50.0	54.0	-4.0	High Ch 11, 6Mbps, EUT Vert
2484.157	28.2	1.8	2.5	115.0	3.0	20.0	Vert	AV	0.0	50.0	54.0	-4.0	High Ch 11, 6Mbjps, EUT Horz
2485.220	28.2	1.8	1.7	331.0	3.0	20.0	Horz	AV	0.0	50.0	54.0	-4.0	High Ch 11, 36Mbps, EUT on Side
2484.150	28.2	1.8	1.7	331.0	3.0	20.0	Horz	AV	0.0	50.0	54.0	-4.0	High Ch 11, 54Mbps, EUT on Side
2389.963	28.4	1.3	1.7	343.0	3.0	20.0	Vert	AV	0.0	49.7	54.0	-4.3	Low Ch 1, 6Mbps, EUT Vert
2389.957	28.4	1.3	1.9	318.0	3.0	20.0	Horz	AV	0.0	49.7	54.0	-4.3	Low Ch 1, 6Mbps, EUT on Side
2388.567	28.3	1.3	1.7	20.0	3.0	20.0	Horz	AV	0.0	49.6	54.0	-4.4	Low Ch 1, 1Mbps, EUT on Side
2388.160	28.3	1.3	1.7	286.0	3.0	20.0	Vert	AV	0.0	49.6	54.0	-4.4	Low Ch 1, 1Mbps, EUT Vert
2389.873	41.9	1.3	1.9	318.0	3.0	20.0	Horz	PK	0.0	63.2	74.0	-10.8	Low Ch 1, 6Mbps, EUT on Side
2483.947	41.3	1.8	1.7	331.0	3.0	20.0	Horz	PK	0.0	63.1	74.0	-10.9	High Ch 11, 6Mbps, EUT on Side
2484.807	41.2	1.8	1.7	252.0	3.0	20.0	Horz	PK	0.0	63.0	74.0	-11.0	High Ch 11, 6Mbjps, EUT Horz
2389.743	41.7	1.3	1.7	343.0	3.0	20.0	Vert	PK	0.0	63.0	74.0	-11.0	Low Ch 1, 6Mbps, EUT Vert
2485.063	40.3	1.8	1.7	331.0	3.0	20.0	Horz	PK	0.0	62.1	74.0	-11.9	High Ch 11, 11Mbps, EUT on Side
2484.730	40.3	1.8	1.7	331.0	3.0	20.0	Horz	PK	0.0	62.1	74.0	-11.9	High Ch 11, 36Mbps, EUT on Side
2485.453	40.1	1.8	1.7	127.0	3.0	20.0	Vert	PK	0.0	61.9	74.0	-12.1	High Ch 11, 6Mbps, EUT on Side
2485.377	40.1	1.8	1.7	331.0	3.0	20.0	Horz	PK	0.0	61.9	74.0	-12.1	High Ch 11, 1Mbps, EUT on Side
2484.460	40.0	1.8	2.5	115.0	3.0	20.0	Vert	PK	0.0	61.8	74.0	-12.2	High Ch 11, 6Mbjps, EUT Horz
2484.380	39.8	1.8	1.7	331.0	3.0	20.0	Horz	PK	0.0	61.6	74.0	-12.4	High Ch 11, 54Mbps, EUT on Side
2388.753	40.2	1.3	1.7	20.0	3.0	20.0	Horz	PK	0.0	61.5	74.0	-12.5	Low Ch 1, 1Mbps, EUT on Side
2485.473	39.5	1.8	4.0	193.0	3.0	20.0	Vert	PK	0.0	61.3	74.0	-12.7	High Ch 11, 6Mbps, EUT Vert
2484.450	39.3	1.8	1.7	73.0	3.0	20.0	Horz	PK	0.0	61.1	74.0	-12.9	High Ch 11, 6Mbps, EUT Vert
2389.173	39.7	1.3	1.7	286.0	3.0	20.0	Vert	PK	0.0	61.0	74.0	-13.0	Low Ch 1, 1Mbps, EUT Vert



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

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.



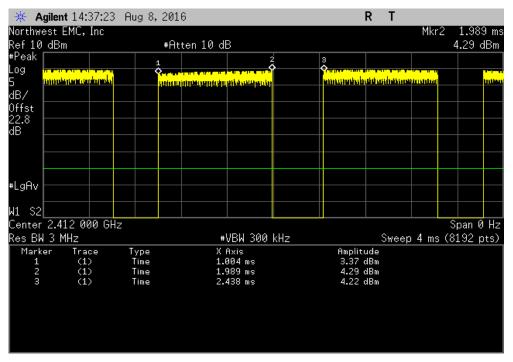
26/93

EUT: BL	.EB				Work Order:	AWAR0023	
Serial Number: QS	615260346					08/08/16	
Customer: Aw	varepoint Corporation				Temperature:	23 °C	
Attendees: No	ne				Humidity:	47.8% RH	
Project: No					Barometric Pres.:	1012 mbar	
Tested by: Mil		Power: USB Powered			Job Site:	OC13	
EST SPECIFICATION	S	Test Method					
CC 15.247:2016		ANSI C63.10:2013	3				
OMMENTS							
otal reference level of	ffset: DC Block + 20dB attenuator + RF Ca	ble + Patch Cable = 22.75 dB. Power setting = 0					
EVIATIONS FROM TE	ECT CTANDADD						
one	EST STANDARD						
nie .		2 2					
onfiguration #	3	And clay					
	Signat						
				Number of	Value	Limit	
		Pulse Width	Period	Pulses	(%)	(%)	Results
00 MHz - 2483.5 MHz							
802	2.11(b) 1 Mbps						
	Low Channel 1, 2412 MHz	984.975 us	1.434 ms	1	68.7	N/A	N/A
	Low Channel 1, 2412 MHz	N/A	N/A	5	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	985.952 us	1.435 ms	1	68.7	N/A	N/A
	Mid Channel 6, 2437 MHz	N/A	N/A	5	N/A	N/A	N/A
	High Channel 11, 2462 MHz	984.975 us	1.454 ms	1	67.7	N/A	N/A
	High Channel 11, 2462 MHz	N/A	N/A	5	N/A	N/A	N/A
802	2.11(b) 11 Mbps						
	Low Channel 1, 2412 MHz	260.305 us	581.344 us	1	44.8	N/A	N/A
	Low Channel 1, 2412 MHz	N/A	N/A	5	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	259.328 us	599.2 us	1	43.3	N/A	N/A
	Mid Channel 6, 2437 MHz	N/A	N/A	5	N/A	N/A	N/A
	High Channel 11, 2462 MHz	260.205 us	590.344 us	1	44.1	N/A	N/A
	High Channel 11, 2462 MHz	N/A	N/A	5	N/A	N/A	N/A
802	2.11(g) 6 Mbps						
	Low Channel 1, 2412 MHz	157.802 us	338.01 us	1	46.7	N/A	N/A
	Low Channel 1, 2412 MHz	N/A	N/A	6	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	156.958 us	447.099 us	1	35.1	N/A	N/A
	Mid Channel 6, 2437 MHz	N/A	N/A	7	N/A	N/A	N/A
	High Channel 11, 2462 MHz	156.282 us	328.188 us	1	47.6	N/A	N/A
	High Channel 11, 2462 MHz	N/A	N/A	5	N/A	N/A	N/A
802	2.11(g) 36 Mbps						
	Low Channel 1, 2412 MHz	41.606 us	176.676 us	1	23.5	N/A	N/A
	Low Channel 1, 2412 MHz	N/A	N/A	5	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	41.643 us	176.438 us	1	23.6	N/A	N/A
	Mid Channel 6, 2437 MHz	N/A	N/A	5	N/A	N/A	N/A
	High Channel 11, 2462 MHz	41.222 us	158.302 us	1	26	N/A	N/A
	High Channel 11, 2462 MHz	N/A	N/A	5	N/A	N/A	N/A
802	2.11(g) 54 Mbps						
	Low Channel 1, 2412 MHz	33.79 us	168.557 us	1	20	N/A	N/A
	Low Channel 1, 2412 MHz	N/A	N/A	5	N/A	N/A	N/A
	Mid Channel 6, 2437 MHz	33.407 us	150.366 us	1	22.2	N/A	N/A
	Mid Channel 6, 2437 MHz	N/A	N/A	5	N/A	N/A	N/A
	High Channel 11, 2462 MHz	33.274 us	204.8 us	1	16.2	N/A	N/A

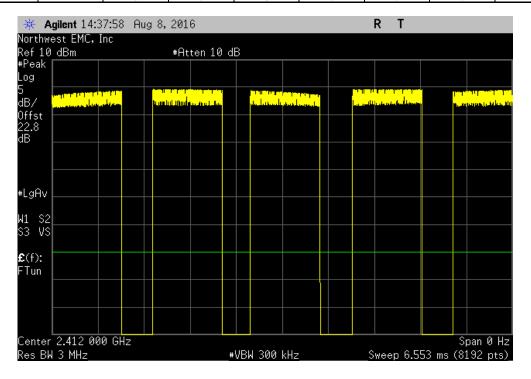
Report No. AWAR0023.2



2400 MHz - 2	2483.5 MHz Band	d, 802.11(b) 1 Mb	ps, Low Channel	1, 2412 MHz	
		Number of	Value	Limit	
Pulse Width	Period	Pulses	(%)	(%)	Results
984.975 us	1.434 ms	1	68.7	N/A	N/A

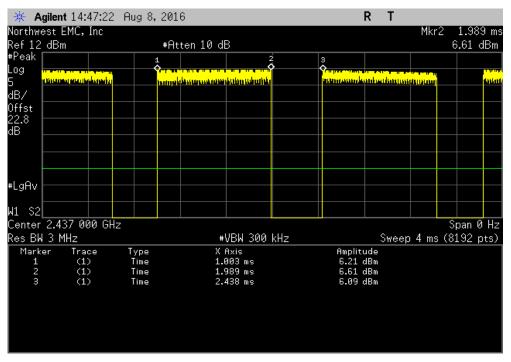


2400 MHz - 2	2483.5 MHz Band	d, 802.11(b) 1 Mb	ps, Low Channel	1, 2412 MHz	
		Number of	Value	Limit	
 Pulse Width	Period	Pulses	(%)	(%)	Results
N/A	N/A	5	N/A	N/A	N/A

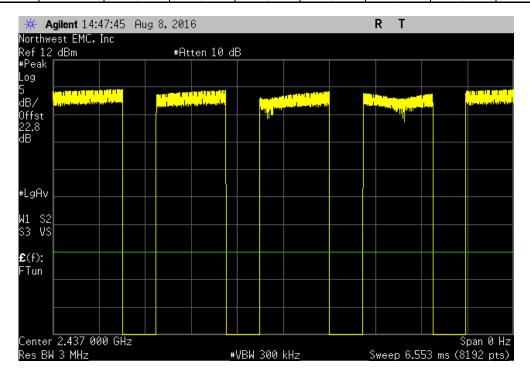




2400 MHz - 2	2483.5 MHz Band	d, 802.11(b) 1 Mb	ps, Mid Channel	6, 2437 MHz	
		Number of	Value	Limit	
Pulse Width	Period	Pulses	(%)	(%)	Results
985.952 us	1.435 ms	1	68.7	N/A	N/A

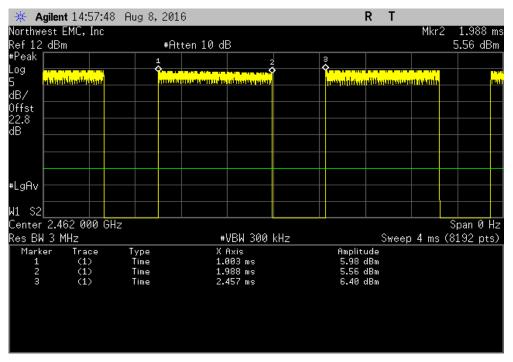


2400 MHz - 1	2483.5 MHz Band	d, 802.11(b) 1 Mb	ps, Mid Channel	6, 2437 MHz	
		Number of	Value	Limit	
 Pulse Width	Period	Pulses	(%)	(%)	Results
N/A	N/A	5	N/A	N/A	N/A

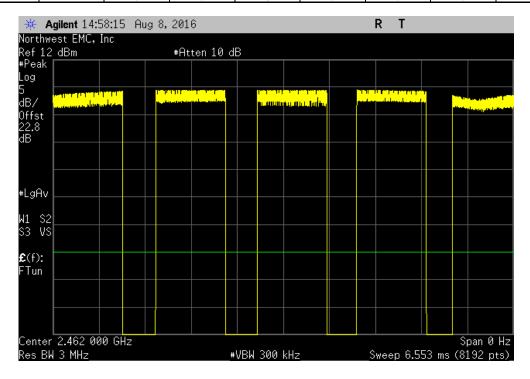




	2400 MHz - 24	483.5 MHz Band,	802.11(b) 1 Mbp	s, High Channel	11, 2462 MHz		
			Number of	Value	Limit		
	Pulse Width	Period	Pulses	(%)	(%)	Results	
	984.975 us	1.454 ms	1	67.7	N/A	N/A	

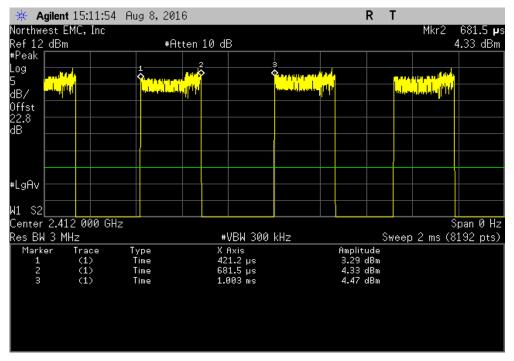


	2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz									
				Number of	Value	Limit				
		Pulse Width	Period	Pulses	(%)	(%)	Results			
1		N/A	N/A	5	N/A	N/A	N/A			

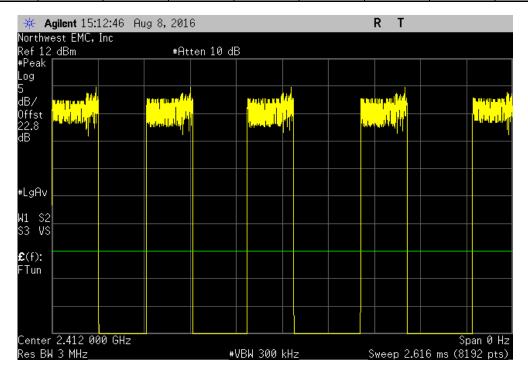




2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz									
		Number of	Value	Limit					
Pulse Width	Period	Pulses	(%)	(%)	Results				
260.305 us	581.344 us	1	44.8	N/A	N/A				

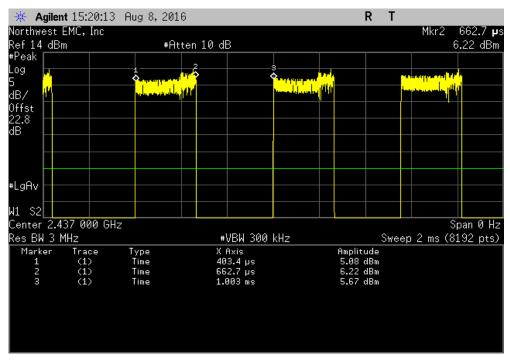


	2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz										
				Number of	Value	Limit					
		Pulse Width	Period	Pulses	(%)	(%)	Results				
i		N/A	N/A	5	N/A	N/A	N/A				

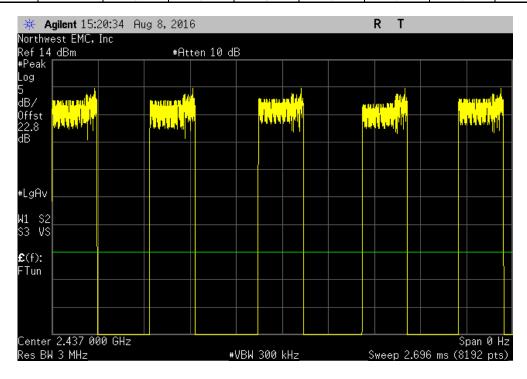




2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz									
		Number of	Value	Limit					
Pulse Width	Period	Pulses	(%)	(%)	Results				
259.328 us	599.2 us	1	43.3	N/A	N/A				

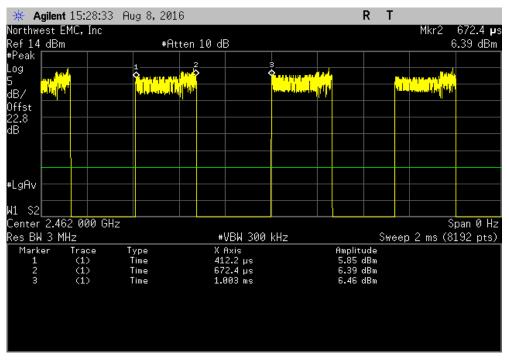


2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz										
		Number of	Value	Limit						
 Pulse Width	Period	Pulses	(%)	(%)	Results					
N/A	N/A	5	N/A	N/A	N/A					

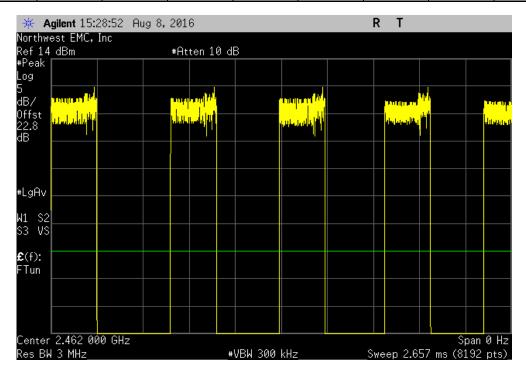




2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz									
			Number of	Value	Limit				
	Pulse Width	Period	Pulses	(%)	(%)	Results			
	260.205 us	590.344 us	1	44.1	N/A	N/A			

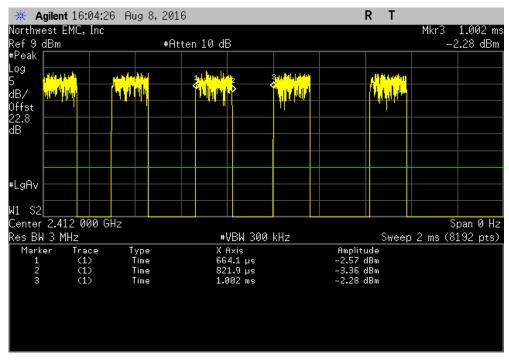


	2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz									
				Number of	Value	Limit				
		Pulse Width	Period	Pulses	(%)	(%)	Results			
1		N/A	N/A	5	N/A	N/A	N/A			

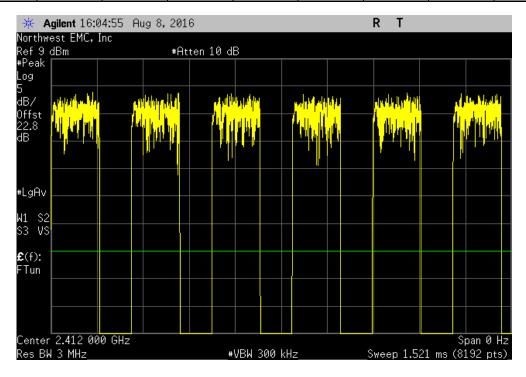




2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz									
			Number of	Value	Limit				
	Pulse Width	Period	Pulses	(%)	(%)	Results			
	157.802 us	338.01 us	1	46.7	N/A	N/A			

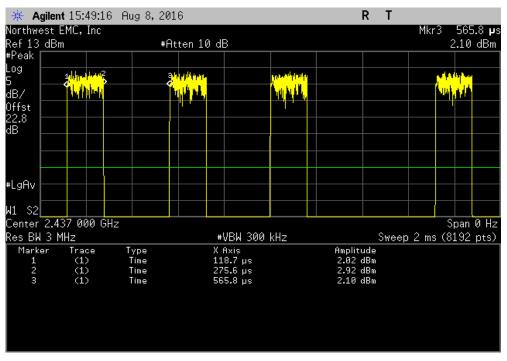


	2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz									
				Number of	Value	Limit				
		Pulse Width	Period	Pulses	(%)	(%)	Results			
i		N/A	N/A	6	N/A	N/A	N/A			

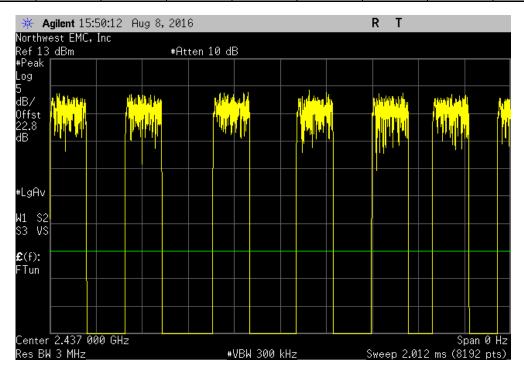




2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz									
		Number of	Value	Limit					
Pulse Width	Period	Pulses	(%)	(%)	Results				
156.958 us	447.099 us	1	35.1	N/A	N/A				

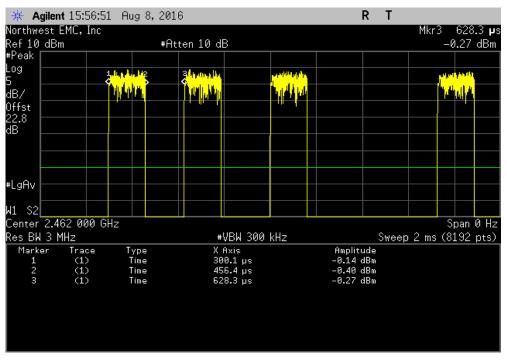


	2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz									
				Number of	Value	Limit				
		Pulse Width	Period	Pulses	(%)	(%)	Results			
1		N/A	N/A	7	N/A	N/A	N/A			

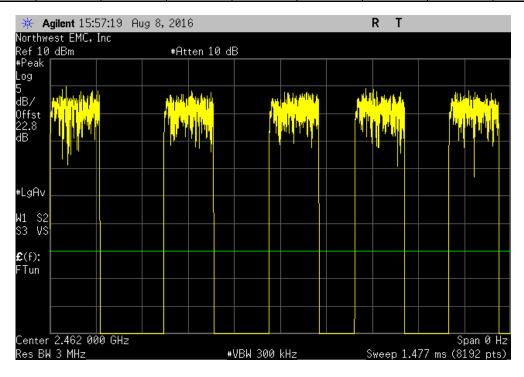




2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
		Number of	Value	Limit		
Pulse Width	Period	Pulses	(%)	(%)	Results	
156.282 us	328.188 us	1	47.6	N/A	N/A	

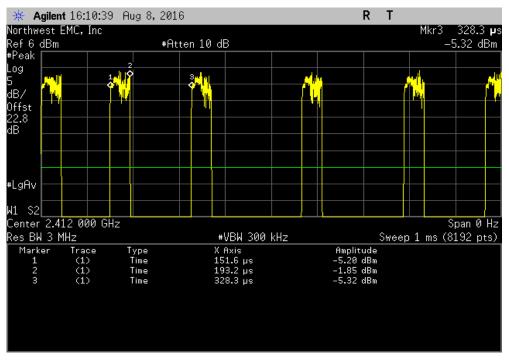


	2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz							
				Number of	Value	Limit		
		Pulse Width	Period	Pulses	(%)	(%)	Results	
1		N/A	N/A	5	N/A	N/A	N/A	

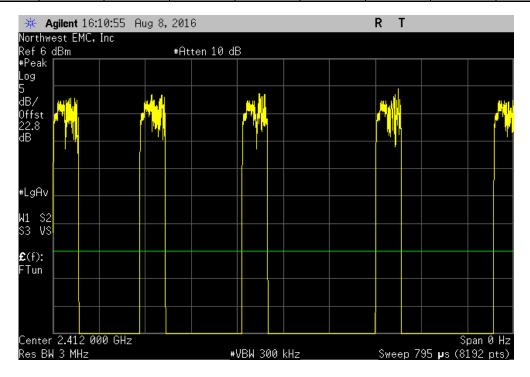




2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz							
		Number of	Value	Limit			
Pulse Width	Period	Pulses	(%)	(%)	Results		
41.606 us	176.676 us	1	23.5	N/A	N/A		

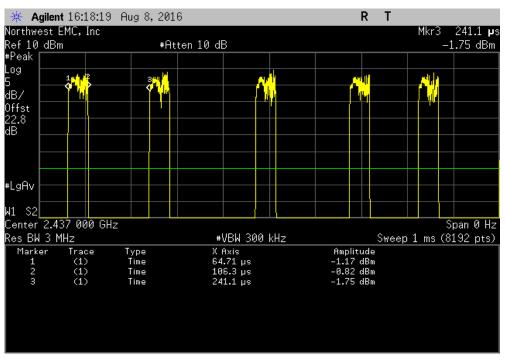


	2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz							
				Number of	Value	Limit		
		Pulse Width	Period	Pulses	(%)	(%)	Results	
i		N/A	N/A	5	N/A	N/A	N/A	

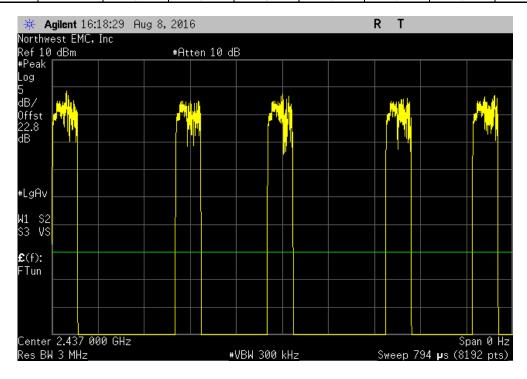




2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz									
	Number of Value Limit								
		Pulse Width	Period	Pulses	(%)	(%)	Results		
		41.643 us	176.438 us	1	23.6	N/A	N/A		

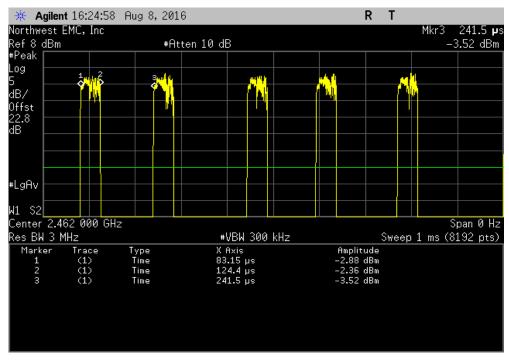


2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz							
		Number of	Value	Limit			
 Pulse Width	Period	Pulses	(%)	(%)	Results		
N/A	N/A	5	N/A	N/A	N/A		

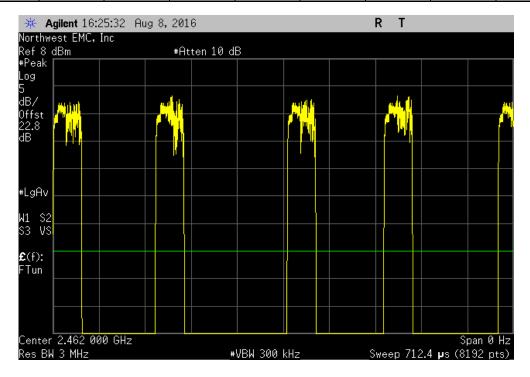




2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz									
		Number of	Value	Limit					
Pulse Width	Period	Pulses	(%)	(%)	Results				
41.222 us	158.302 us	1	26	N/A	N/A				

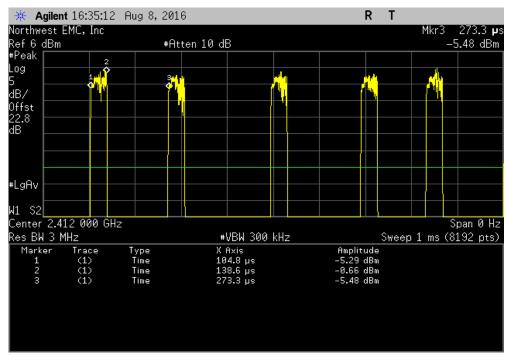


	2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz									
			Number of Value Limit							
		Pulse Width	Period	Pulses	(%)	(%)	Results			
İ		N/A	N/A	5	N/A	N/A	N/A			

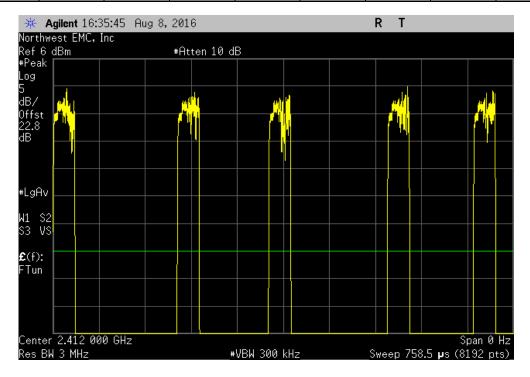




2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz									
		Number of	Value	Limit					
Pulse Width	Period	Pulses	(%)	(%)	Results				
33.79 us	168.557 us	1	20	N/A	N/A				

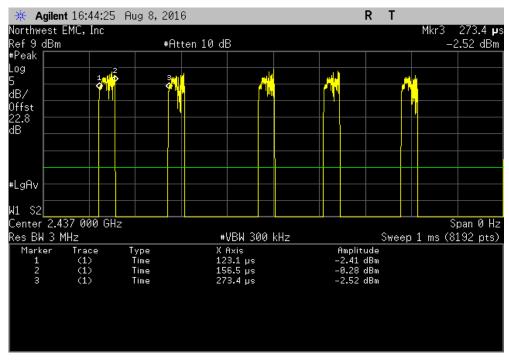


2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz								
			Number of	Value	Limit			
	Pulse Width	Period	Pulses	(%)	(%)	Results		
	N/A	N/A	5	N/A	N/A	N/A		





2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz								
		Number of	Value	Limit				
Pulse Width	Period	Pulses	(%)	(%)	Results			
33.407 us	150.366 us	1	22.2	N/A	N/A			

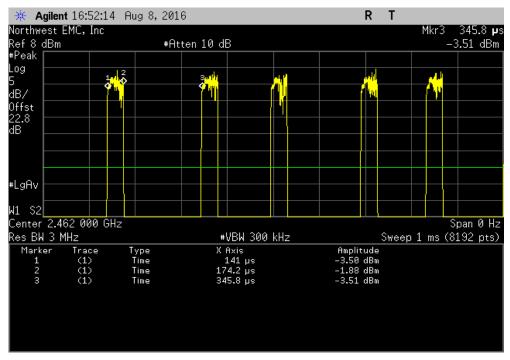


	2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz								
			Number of	Value	Limit				
	 Pulse Width	Period	Pulses	(%)	(%)	Results			
i	N/A	N/A	5	N/A	N/A	N/A			

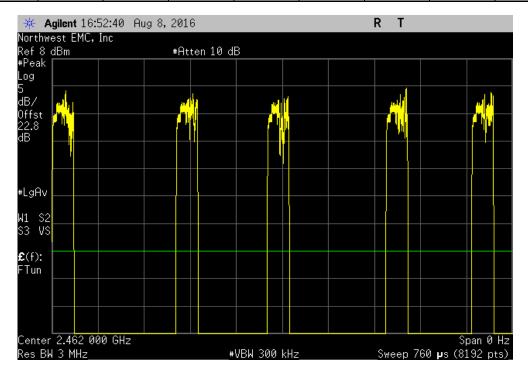




2400 MHz - 24	2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz									
		Number of	Value	Limit						
Pulse Width	Period	Pulses	(%)	(%)	Results					
33.274 us	204.8 us	1	16.2	N/A	N/A					



2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz									
Number of Value Limit									
		Pulse Width	Period	Pulses	(%)	(%)	Results		
1		N/A	N/A	5	N/A	N/A	N/A		





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

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.

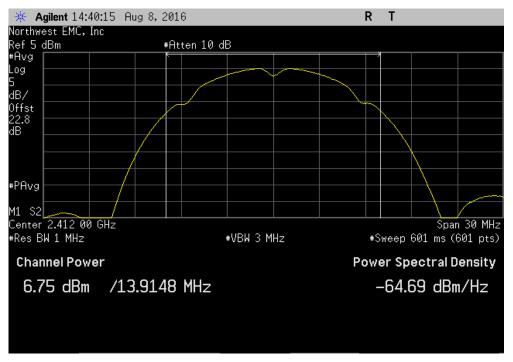
De Facto EIRP Limit: Per 47 CFR 15.247 (b)(1-3), the EUT meets the de facto EIRP limit of +36 dBm.



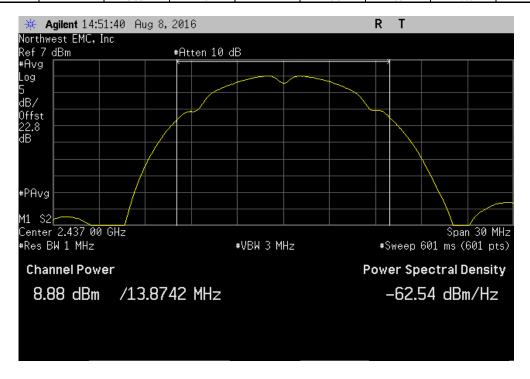
EUT:	BLEB					Work Order:	AWAR0023	
Serial Number:							08/08/16	
	Awarepoint Corporation					Temperature:		
Attendees:						Humidity:	47.8% RH	
Project:						Barometric Pres.:		
Tested by:		•	Power:	USB Powered	•	Job Site:		_
TEST SPECIFICAT	IONS			Test Method				
FCC 15.247:2016				ANSI C63.10:2013				
COMMENTS								
		B attenuator + RF Cable + Patch Cabl	e = 22.75 dB. Powe	er setting = 0				
DEVIATIONS FROM	I TEST STANDARD							
None								
Configuration #	3	Signature	And it	ing				
				Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Value (dBm)	Limit (dBm)	Results
2400 MHz - 2483.5								
	802.11(b) 1 Mbps							
		l 1, 2412 MHz		6.747	1.6	8.4	30	Pass
		6, 2437 MHz		8.882	1.6	10.5	30	Pass
		el 11, 2462 MHz		8.806	1.7	10.5	30	Pass
	802.11(b) 11 Mbps	14 0440 MH-		F 44	0.5	2.2	00	Davis
		11, 2412 MHz		5.44	3.5	8.9	30	Pass
		6, 2437 MHz el 11, 2462 MHz		7.484 7.568	3.6 3.6	11.1 11.1	30 30	Pass Pass
	802.11(q) 6 Mbps	# 11, 2402 WITZ		1.300	3.0	11.1	30	r dSS
		I 1, 2412 MHz		1.512	7	8.5	30	Pass
		6, 2437 MHz		5.718	4.5	10.3	30	Pass
		el 11, 2462 MHz		3.176	3.2	6.4	30	Pass
	802.11(q) 36 Mbps	, = =		00	J.L	3.4		. 400
		l 1, 2412 MHz		-6.001	6.3	0.3	30	Pass
		6, 2437 MHz		-1.961	6.3	4.3	30	Pass
	High Channe	el 11, 2462 MHz		-4.408	5.9	1.4	30	Pass
	802.11(g) 54 Mbps							
		l 1, 2412 MHz		-6.717	7	0.3	30	Pass
	Mid Channel	6, 2437 MHz		-3.961	6.5	2.6	30	Pass
	High Channe	el 11, 2462 MHz		-5.093	7.9	2.8	30	Pass



	2400 MHz - 2	2483.5 MHz Band	d, 802.11(b) 1 Mb	ps, Low Channel	1, 2412 MHz	
	Avg Cond	Duty Cycle		Value	Limit	
	Pwr (dBm)	Factor (dB)		(dBm)	(dBm)	Results
i	6.747	1.6		8.4	30	Pass

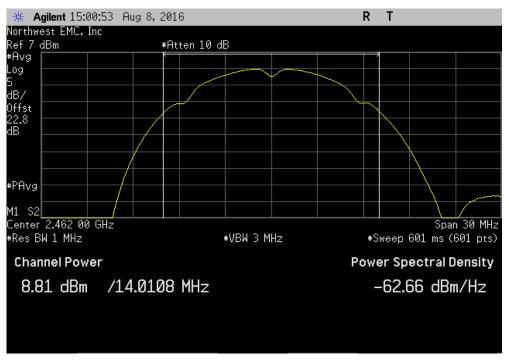


	2400 MHz -	2483.5 MHz Band	d, 802.11(b) 1 Mbps, Mid Channel	6, 2437 MHz	
	Avg Cond	Duty Cycle	Value	Limit	
<u></u>	Pwr (dBm)	Factor (dB)	(dBm)	(dBm)	Results
	8.882	1.6	10.5	30	Pass

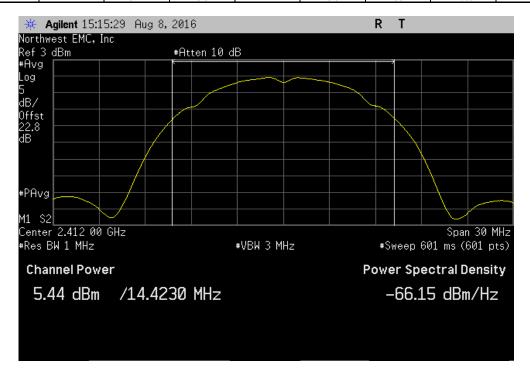




	2400 MHz - 2	483.5 MHz Band,	, 802.11(b) 1 Mbp	s, High Channel	11, 2462 MHz	
	Avg Cond	Duty Cycle		Value	Limit	
	Pwr (dBm)	Factor (dB)		(dBm)	(dBm)	Results
	8.806	1.7		10.5	30	Pass

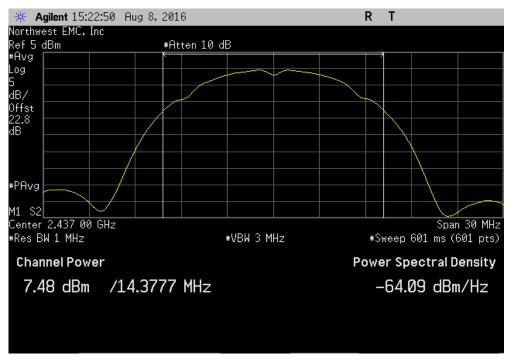


	2400 MHz - 2	483.5 MHz Band	, 802.11(b) 11 Mb	ps, Low Channe	1, 2412 MHz	
	Avg Cond	Duty Cycle		Value	Limit	
_	Pwr (dBm)	Factor (dB)		(dBm)	(dBm)	Results
	5.44	3.5		8.9	30	Pass

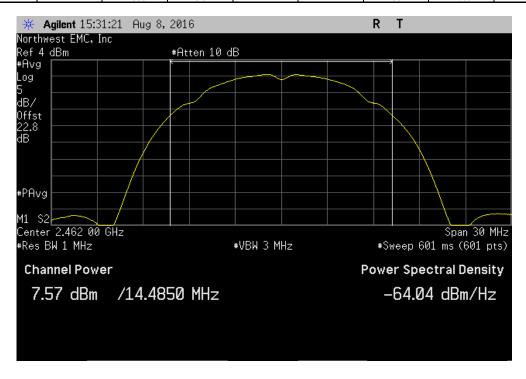




	2400 MHz - 2	483.5 MHz Band	, 802.11(b) 11 Mi	ops, Mid Channel	6, 2437 MHz	
	Avg Cond	Duty Cycle		Value	Limit	
	Pwr (dBm)	Factor (dB)		(dBm)	(dBm)	Results
	7.484	3.6		11.1	30	Pass

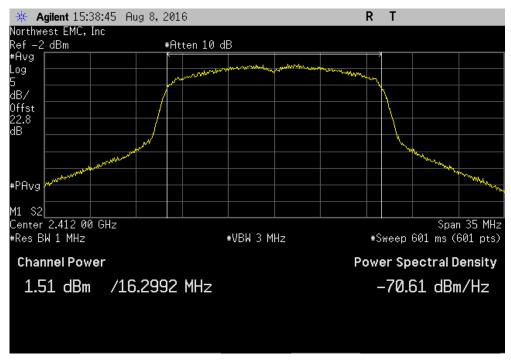


	2400 MHz - 24	183.5 MHz Band,	802.11(b) 11 Mb _l	ps, High Channel	11, 2462 MHz	
	Avg Cond	Duty Cycle		Value	Limit	
	Pwr (dBm)	Factor (dB)		(dBm)	(dBm)	Results
	7.568	3.6		11.1	30	Pass

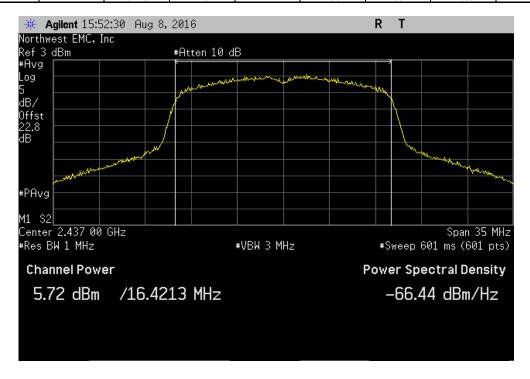




	2400 MHz - 2	2483.5 MHz Band	d, 802.11(g) 6 Mb	ps, Low Channel	1, 2412 MHz	
	Avg Cond	Duty Cycle		Value	Limit	
	Pwr (dBm)	Factor (dB)		(dBm)	(dBm)	Results
	1.512	7		8.5	30	Pass

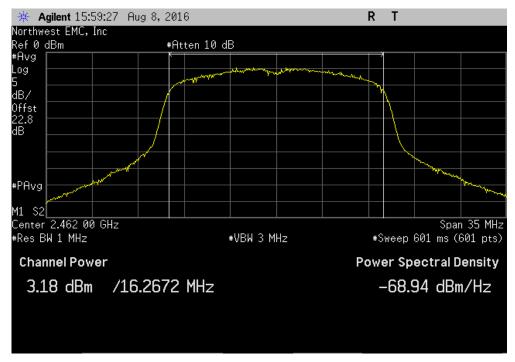


	2400 MHz - :	2483.5 MHz Band	d, 802.11(g) 6 Mb	ps, Mid Channel	6, 2437 MHz	
	Avg Cond	Duty Cycle		Value	Limit	
_	Pwr (dBm)	Factor (dB)		(dBm)	(dBm)	Results
	5.718	4.5		10.3	30	Pass

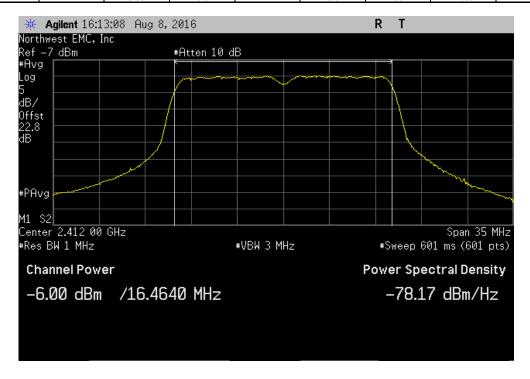




2400 MHz - 2	2483.5 MHz Band	, 802.11(g) 6 Mbp	s, High Channel	11, 2462 MHz	
Avg Cond	Duty Cycle		Value	Limit	
Pwr (dBm)	Factor (dB)		(dBm)	(dBm)	Results
3.176	3.2		6.4	30	Pass

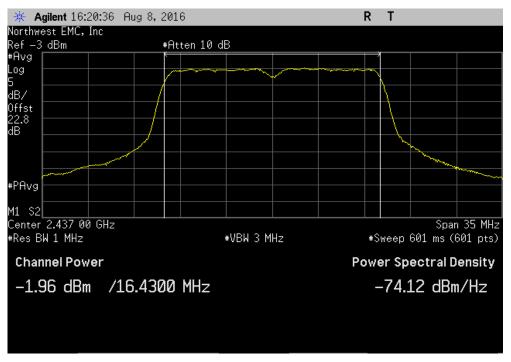


	2400 MHz - 2	483.5 MHz Band	, 802.11(g) 36 Mb	ps, Low Channe	l 1, 2412 MHz	
	Avg Cond	Duty Cycle		Value	Limit	
	Pwr (dBm)	Factor (dB)		(dBm)	(dBm)	Results
<u> </u>	-6.001	6.3		0.3	30	Pass

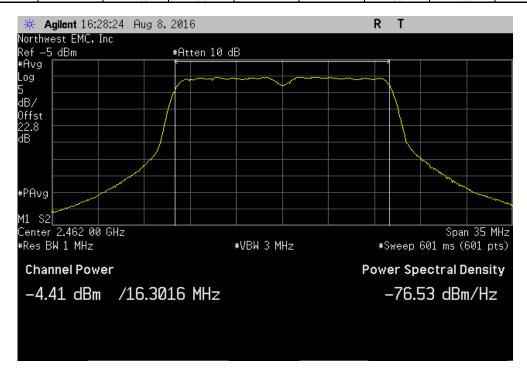




2400 MHz - 2	2483.5 MHz Band	l, 802.11(g) 36 Mb	ops, Mid Channel	6, 2437 MHz	
Avg Cond	Duty Cycle		Value	Limit	
Pwr (dBm)	Factor (dB)		(dBm)	(dBm)	Results
-1.961	6.3		4.3	30	Pass

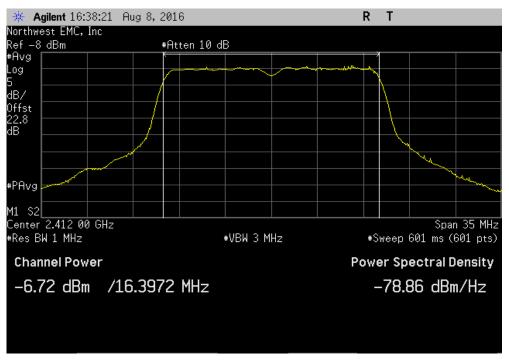


2400 MHz - 24	183.5 MHz Band,	802.11(g) 36 Mbp	os, High Channel	11, 2462 MHz	
Avg Cond	Duty Cycle		Value	Limit	
 Pwr (dBm)	Factor (dB)		(dBm)	(dBm)	Results
-4.408	5.9		1.4	30	Pass

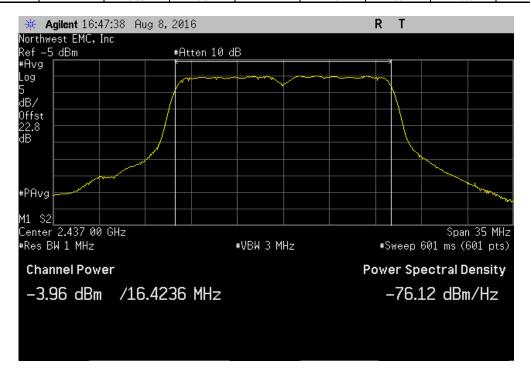




	2400 MHz - 2	483.5 MHz Band	, 802.11(g) 54 Mb	ps, Low Channel	1, 2412 MHz	
	Avg Cond	Duty Cycle		Value	Limit	
	Pwr (dBm)	Factor (dB)		(dBm)	(dBm)	Results
	-6.717	7		0.3	30	Pass

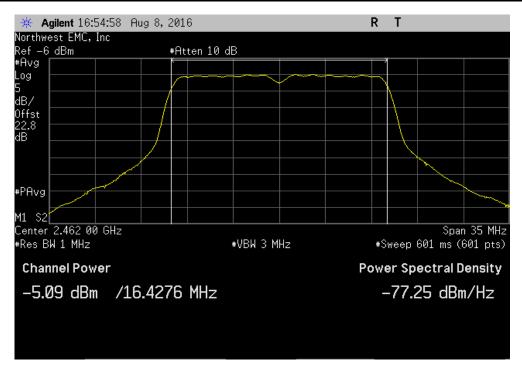


	2400 MHz - 2	2483.5 MHz Band	l, 802.11(g) 54 Mi	ops, Mid Channel	6, 2437 MHz	
	Avg Cond	Duty Cycle		Value	Limit	
	Pwr (dBm)	Factor (dB)		(dBm)	(dBm)	Results
	-3.961	6.5		2.6	30	Pass





	2400 MHz - 24	183.5 MHz Band,	802.11(g) 54 Mbj	ps, High Channel	11, 2462 MHz		
	Avg Cond	Duty Cycle		Value	Limit		
	Pwr (dBm)	Factor (dB)		(dBm)	(dBm)	Results	
I	-5.093	7.9		2.8	30	Pass	





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

TEST DESCRIPTION

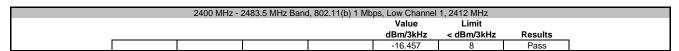
The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The maximum power spectral density measurements was measured using the channels and modes as called out on the following data sheets.

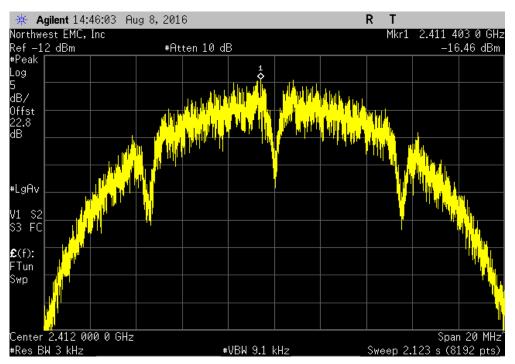
Per the procedure outlined in ANSI C63.10 the peak power spectral density was measured in a 3 kHz RBW.



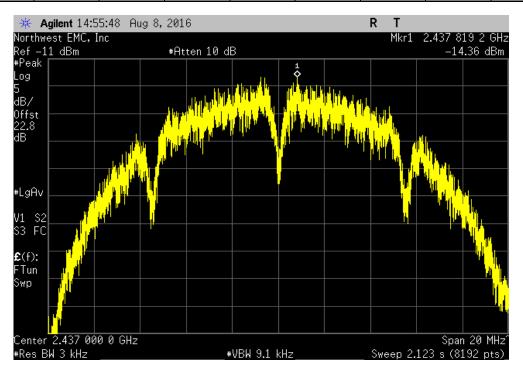
	BLEB				Work Orde	r: AWAR0023	
Serial Number:						e: 08/08/16	
Customer:	Awarepoint Corporation				Temperatur		
Attendees:						y: 47.8% RH	
Project:					Barometric Pres		
Tested by:			Power:	USB Powered	Job Sit	e: OC13	
TEST SPECIFICATI	IONS			Test Method			
FCC 15.247:2016				ANSI C63.10:2013			
COMMENTS							
Total reference leve	el offset: DC Block + 20dE	B attenuator + RF Cable + Patch Cable	e = 22.75 dB. Powe	r setting = 0			
DEVIATIONS FROM	I TEST STANDARD						
None							
0			Ano il				
Configuration #	3	0: .	non a	ing			
		Signature			Value	Limb	
					value dBm/3kHz	Limit < dBm/3kHz	Results
2400 MHz - 2483.5 M	MHz Rand				dBIII/ORI IZ	₹ ubili/oki12	resuits
	802.11(b) 1 Mbps						
		1, 2412 MHz			-16.457	8	Pass
	Mid Channel	6. 2437 MHz			-14.356	8	Pass
	Mid Channel High Channe				-14.356 -14.418	8 8	Pass Pass
		6, 2437 MHz il 11, 2462 MHz					
	High Channe 802.11(b) 11 Mbps						
	High Channe 802.11(b) 11 Mbps	11, 2462 MHz	_		-14.418	8	Pass
	High Channe 802.11(b) 11 Mbps Low Channel Mid Channel	11, 2462 MHz			-14.418 -14.551	8	Pass Pass
	High Channe 802.11(b) 11 Mbps Low Channel Mid Channel High Channe 802.11(g) 6 Mbps	I 11, 2462 MHz 1, 2412 MHz 6, 2437 MHz I 11, 2462 MHz			-14.418 -14.551 -12.506 -12.609	8 8 8	Pass Pass Pass
	High Channe 802.11(b) 11 Mbps Low Channel Mid Channel High Channe	I 11, 2462 MHz 1, 2412 MHz 6, 2437 MHz I 11, 2462 MHz			-14.418 -14.551 -12.506 -12.609	8 8 8	Pass Pass Pass
	High Channe 802.11(b) 11 Mbps Low Channel Mid Channel High Channe 802.11(g) 6 Mbps	I 11, 2462 MHz 11, 2412 MHz 6, 2437 MHz II 11, 2462 MHz 11, 2412 MHz			-14.418 -14.551 -12.506 -12.609	8 8 8 8	Pass Pass Pass Pass
	High Channe 802.11(b) 11 Mbps Low Channel High Channel High Channe 802.11(g) 6 Mbps Low Channel High Channel	I 11, 2462 MHz 11, 2412 MHz 6, 2437 MHz II 11, 2462 MHz 11, 2412 MHz			-14.418 -14.551 -12.506 -12.609	8 8 8 8	Pass Pass Pass Pass Pass
	High Channe 802.11(b) 11 Mbps Low Channel Mid Channel High Channe 802.11(g) 6 Mbps Low Channel Mid Channel High Channel 802.11(g) 36 Mbps	I 11, 2462 MHz 1, 2412 MHz 6, 2437 MHz I 11, 2462 MHz 11, 2412 MHz 6, 2437 MHz 11, 2462 MHz			-14.418 -14.551 -12.506 -12.609 -19.097 -15.351	8 8 8 8	Pass Pass Pass Pass Pass Pass
	High Channe 802.11(b) 11 Mibps Low Channel Mid Channel High Channel 802.11(g) 6 Mibps Low Channel Mid Channel High Channel High Channel 802.11(g) 36 Mibps Low Channel	11, 2462 MHz 11, 2412 MHz 6, 2437 MHz 11, 2462 MHz 11, 2412 MHz 6, 2437 MHz 11, 2462 MHz			-14.418 -14.551 -12.506 -12.609 -19.097 -15.351 -17.581	8 8 8 8 8 8	Pass Pass Pass Pass Pass Pass Pass Pass
	High Channe 802.11(b) 11 Mbps Low Channel Mid Channel High Channe 802.11(g) 6 Mbps Low Channel Mid Channel High Channe 802.11(g) 36 Mbps Low Channel Mid Channel Mid Channel Mid Channel	11, 2462 MHz 11, 2412 MHz 6, 2437 MHz 11, 2462 MHz 11, 2412 MHz 6, 2437 MHz 11, 11, 2412 MHz 11, 11, 2462 MHz 11, 11, 2462 MHz 11, 2462 MHz			-14.418 -14.551 -12.506 -12.609 -19.097 -15.351 -17.581 -24.866 -20.368	8 8 8 8 8 8 8	Pass Pass Pass Pass Pass Pass Pass Pass
	High Channe 802.11(b) 11 Mips Low Channel Mid Channel High Channe 802.11(g) 6 Mips Low Channel Mid Channel High Channe 802.11(g) 36 Mips Low Channel Mid Channel Mid Channel High Channel	11, 2462 MHz 11, 2412 MHz 6, 2437 MHz 11, 2462 MHz 11, 2412 MHz 6, 2437 MHz 11, 2462 MHz			-14.418 -14.551 -12.506 -12.609 -19.097 -15.351 -17.581	8 8 8 8 8 8	Pass Pass Pass Pass Pass Pass Pass Pass
	High Channe 802.11(b) 11 Mbps Low Channel Hidh Channel High Channel High Channel Mid Channel High Channel High Channel High Channel Mid Channel High Channel High Channel High Channel High Channel High Channel High Channel	1 11, 2462 MHz 1, 2412 MHz 6, 2437 MHz 11, 2462 MHz			-14.418 -14.551 -12.506 -12.609 -19.097 -15.351 -17.581 -24.866 -20.368 -22.78	8 8 8 8 8 8 8	Pass Pass Pass Pass Pass Pass Pass Pass
	High Channe 802.11(b) 11 Mbps Low Channel Mid Channel High Channe 802.11(g) 6 Mbps Low Channel Mid Channel High Channe 802.11(g) 36 Mbps Low Channel Mid Channel High Channe High Channe High Channel Low Channel	11, 2462 MHz 11, 2412 MHz 6, 2437 MHz 11, 2462 MHz 11, 2412 MHz 6, 2437 MHz 11, 2412 MHz 11, 12462 MHz 11, 2462 MHz			-14.418 -14.551 -12.506 -12.609 -19.097 -15.351 -17.581 -24.866 -20.368 -22.78	8 8 8 8 8 8 8 8	Pass Pass Pass Pass Pass Pass Pass Pass
	High Channe 802.11(b) 11 Mips Low Channel Mid Channel High Channe 802.11(g) 6 Mips Low Channel Mid Channel High Channe 802.11(g) 36 Mips Low Channel Mid Channel High Channel High Channel High Channel 802.11(g) 54 Mips Low Channel Mid Channel Mid Channel Mid Channel Mid Channel	11, 2462 MHz 11, 2412 MHz 6, 2437 MHz 11, 2462 MHz 11, 2412 MHz 6, 2437 MHz 11, 2412 MHz 11, 12462 MHz 11, 2462 MHz			-14.418 -14.551 -12.506 -12.609 -19.097 -15.351 -17.581 -24.866 -20.368 -22.78	8 8 8 8 8 8 8	Pass Pass Pass Pass Pass Pass Pass Pass



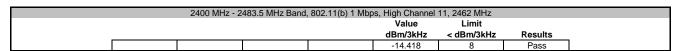


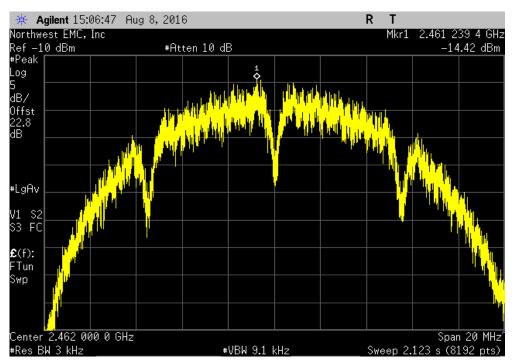


	2400 MHz - 2	2483.5 MHz Band	d, 802.11(b) 1 Mb	ps, Mid Channel	6, 2437 MHz		
				Value	Limit		
				dBm/3kHz	< dBm/3kHz	Results	
				-14.356	8	Pass	

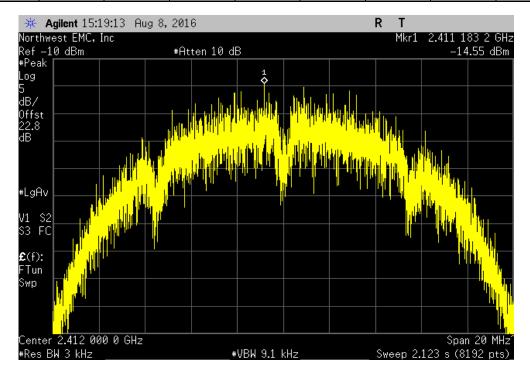




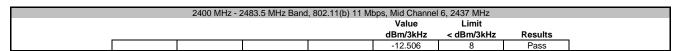


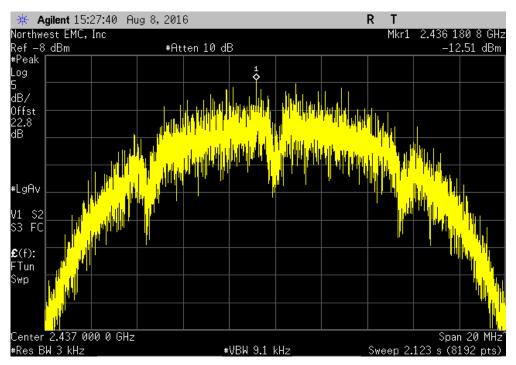


	2400 MHz - 2	483.5 MHz Band	, 802.11(b) 11 Mb	ps, Low Channel	1, 2412 MHz		
				Value	Limit		
				dBm/3kHz	< dBm/3kHz	Results	
1				-14.551	8	Pass	

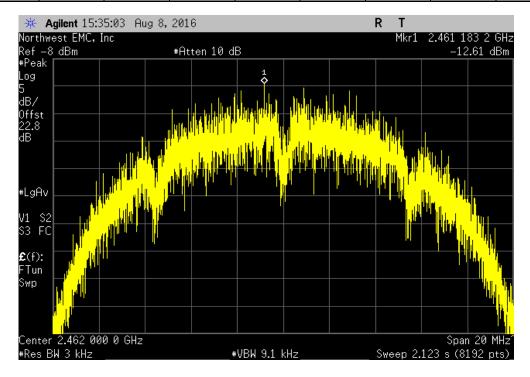




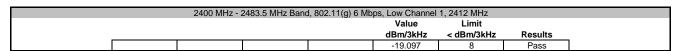


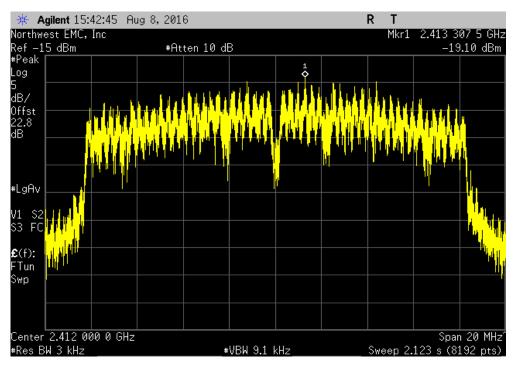


	2400 MHz - 24	483.5 MHz Band,	802.11(b) 11 Mb	ps, High Channel	11, 2462 MHz	
				Value	Limit	
				dBm/3kHz	< dBm/3kHz	Results
				-12.609	8	Pass

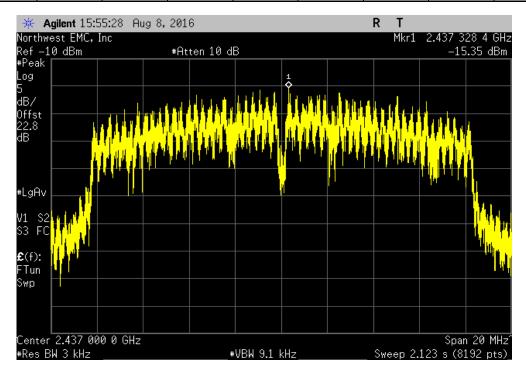




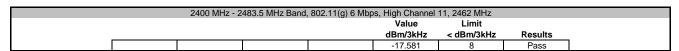


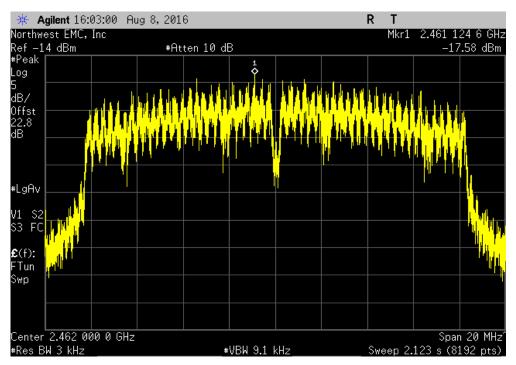


	2400 MHz -	2483.5 MHz Band	d, 802.11(g) 6 Mb	ps, Mid Channel	6, 2437 MHz	
				Value	Limit	
				dBm/3kHz	< dBm/3kHz	Results
				-15.351	8	Pass

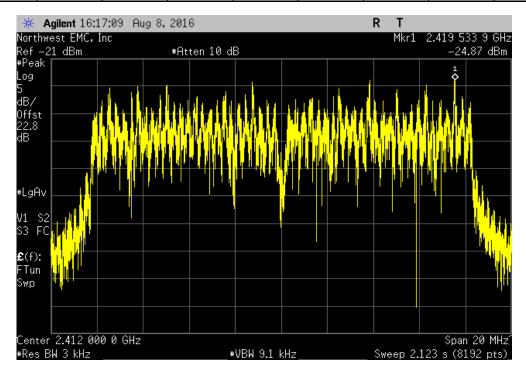




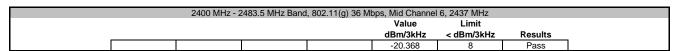


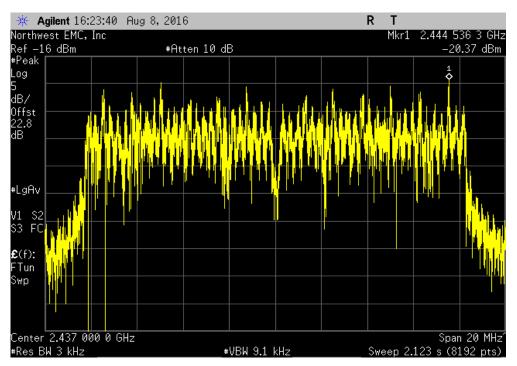


	2400 MHz - 2	483.5 MHz Band	, 802.11(g) 36 Mb	ps, Low Channel	l 1, 2412 MHz	
				Value	Limit	
				dBm/3kHz	< dBm/3kHz	Results
				-24.866	8	Pass

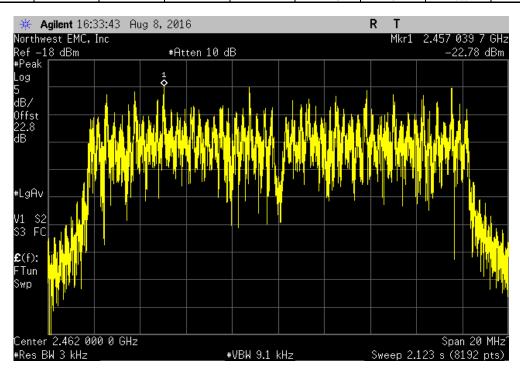




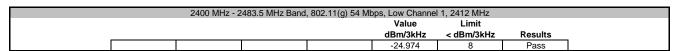


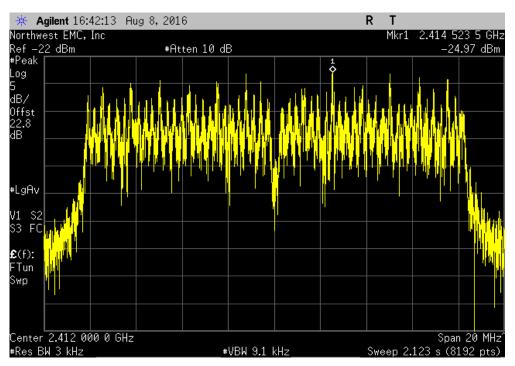


	2400 MHz - 24	183.5 MHz Band,	802.11(g) 36 Mb	ps, High Channel	11, 2462 MHz	
				Value	Limit	
				dBm/3kHz	< dBm/3kHz	Results
				-22.78	8	Pass

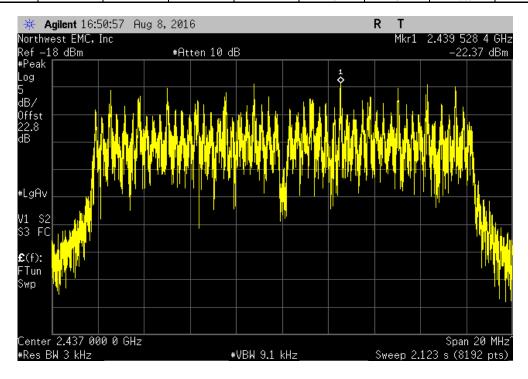






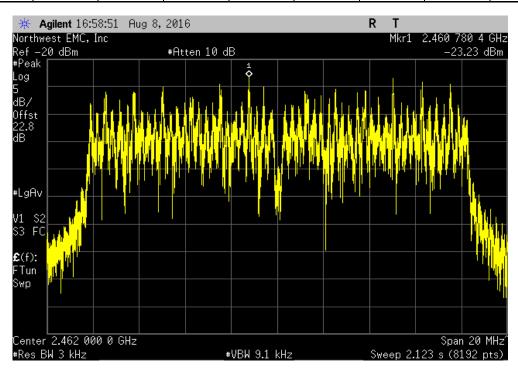


	2400 MHz - 2	2483.5 MHz Band	, 802.11(g) 54 MI	ps, Mid Channel	6, 2437 MHz	
				Value	Limit	
				dBm/3kHz	< dBm/3kHz	Results
				-22.372	8	Pass





	0400 MH I= 04	100 F MI I- David	000 44/m) E4 Mb.	a Hish Chassal	44 0400 MILE	
	2400 MHZ - 24	183.5 MHZ Band,	802.11(g) 54 Mb _l	os, High Channei	11, 2462 IVIHZ	
				Value	Limit	
				dBm/3kHz	< dBm/3kHz	Results
				-23.232	Ω	Pass





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

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.

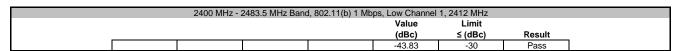
The spectrum was scanned below the lower band edge and above the higher band edge.

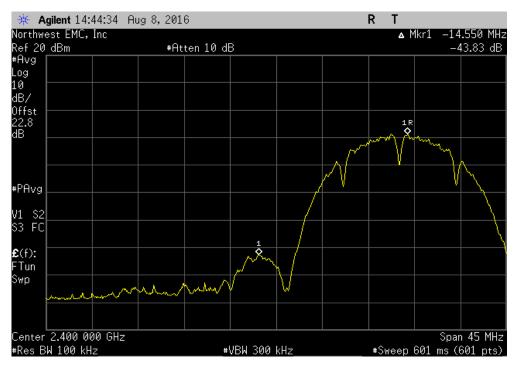


	: BLEB			Work Order:		
Serial Number	: QS15260346	•		Date:	08/08/16	
Customer	: Awarepoint Corporation			Temperature:	22.4 °C	
Attendees	: None			Humidity:	50% RH	
Project	: None			Barometric Pres.:	1013 mbar	
	: Mike Tran		Power: USB Powered	Job Site:	OC13	
TEST SPECIFICAT	TONS		Test Method			
FCC 15.247:2016			ANSI C63.10:2013			
COMMENTS						
		3 attenuator + RF Cable + Patch Cable	= 22.75 dB. Power setting = 0			
	M TEST STANDARD					
None						
Configuration #	3	Signature	Down chung			
				Value (dBc)	Limit ≤ (dBc)	Result
2400 MHz - 2483.5						
	802.11(b) 1 Mbps					
	Low Channel			-43.83	-30	Pass
		I 11, 2462 MHz		-54.15	-30	Pass
	802.11(b) 11 Mbps	4 0440 MH-		20.00	00	Pass
		1, 2412 MHz		-36.08 -54.71	-30	Pass Pass
		I 11, 2462 MHz		-54./1	-30	Pass
	802.11(g) 6 Mbps Low Channel	4 2442 MUI=		-30,25	-30	Pass
		1, 2412 MHz I 11, 2462 MHz		-30.25 -47.09	-30	Pass
	802.11(q) 36 Mbps	1 11, 2402 WITZ		-47.09	-30	Pass
		1, 2412 MHz		-33.05	-30	Pass
		1, 2412 MHz I 11, 2462 MHz		-33.05 -46.16	-30	Pass
	802.11(g) 54 Mbps	1 11, 2402 IVITIZ		-40.16	-30	r dSS
		1, 2412 MHz		-30.33	-30	Pass
		1, 2412 MHz		-30.33 -46.18	-30	Pass

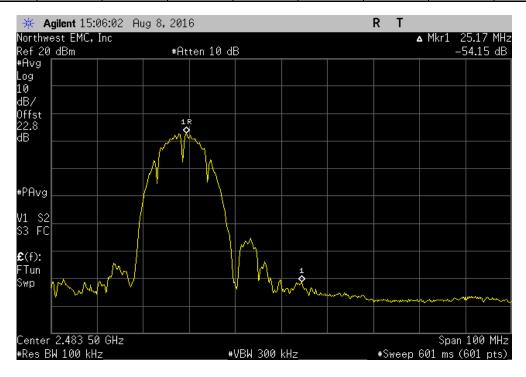
Report No. AWAR0023.2



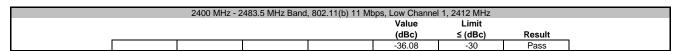


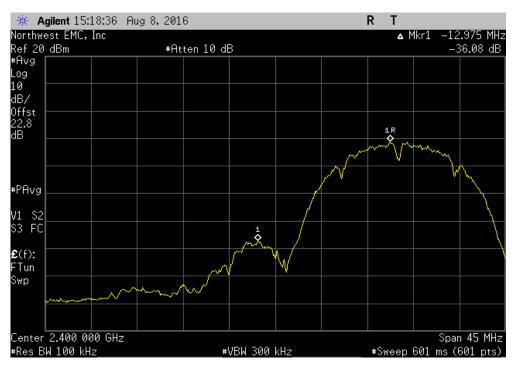


	2400 MHz - 2	483.5 MHz Band	, 802.11(b) 1 Mbp	s, High Channel	11, 2462 MHz	
				Value	Limit	
_				(dBc)	≤ (dBc)	Result
l í				-54.15	-30	Pass

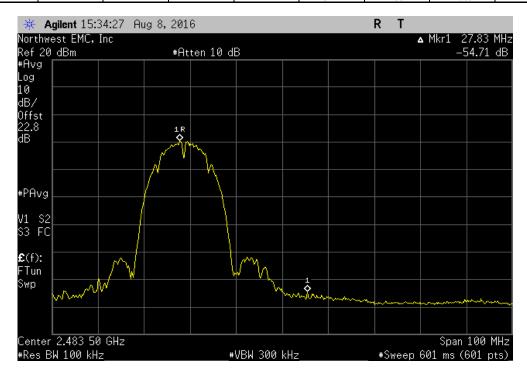






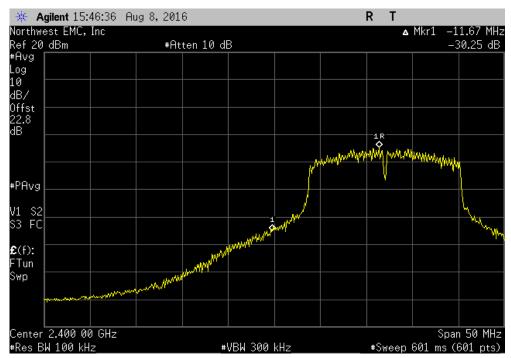


	2400 MHz - 24	483.5 MHz Band,	802.11(b) 11 Mb	ps, High Channel	11, 2462 MHz	
				Value	Limit	
				(dBc)	≤ (dBc)	Result
				-54.71	-30	Pass

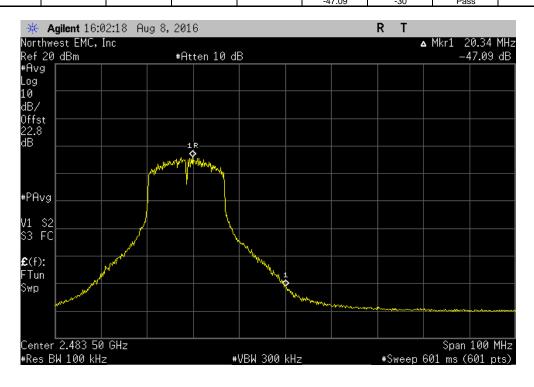




	2400 MHz - 2	2483.5 MHz Band	d. 802.11(a) 6 Mb	ps. Low Channel	1. 2412 MHz	
			(9)	Value	Limit	
				value	Limit	
				(dBc)	≤ (dBc)	Result
ı						
				-30.25	-30	Pass

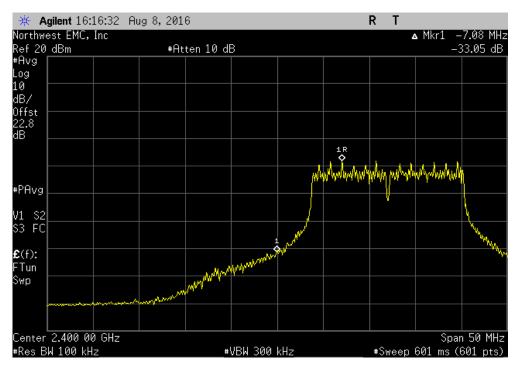


	2400 MHz - 2	483.5 MHz Band,	, 802.11(g) 6 Mbp	s, High Channel	11, 2462 MHz	
				Value	Limit	
				(dBc)	≤ (dBc)	Result
				47.00	20	Door

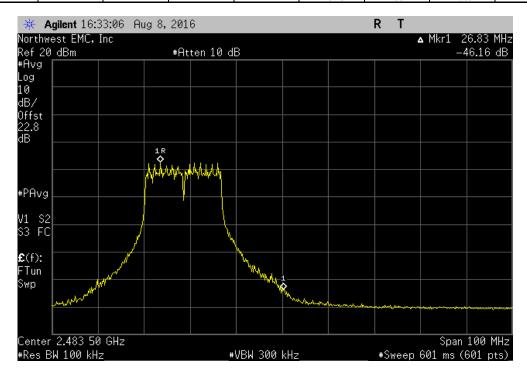




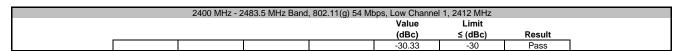
	2400 MHz - 2	483.5 MHz Band	, 802.11(g) 36 Mb	ops, Low Channel	I 1, 2412 MHz	
			, , , ,	Value	Limit	
_				(dBc)	≤ (dBc)	Result
				-33.05	-30	Pass

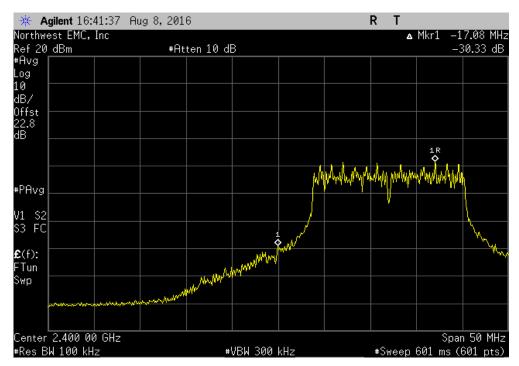


	2400 MHz - 24	183.5 MHz Band,	802.11(g) 36 Mb	os, High Channel	11, 2462 MHz	
				Value	Limit	
				(dBc)	≤ (dBc)	Result
				-46.16	-30	Pass

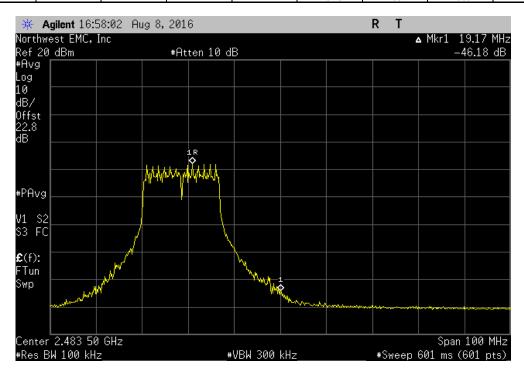








	2400 MHz - 24	183.5 MHz Band,	802.11(g) 54 Mb	os, High Channel	11, 2462 MHz	
				Value	Limit	
				(dBc)	≤ (dBc)	Result
				-46.18	-30	Pass





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

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 specified frequency range.

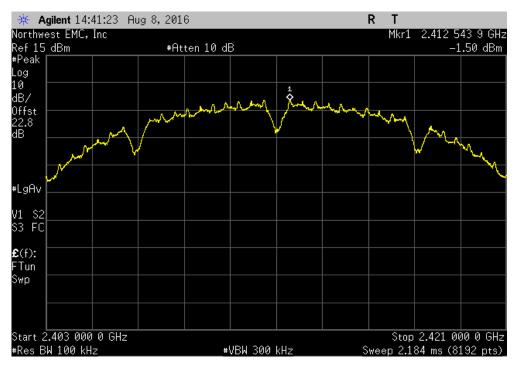


FIIT-	BLEB			Work Order:	AWAR0023	
Serial Number:					08/08/16	
	: Awarepoint Corporation			Temperature:		
Attendees:				Humidity:		
Project:				Barometric Pres.:		
	: Mike Tran		Power: USB Powered	Job Site:		
ST SPECIFICAT			Test Method	COD Cite.	0010	
C 15.247:2016	10.10		ANSI C63.10:2013			
0 10.247.2010			74401 000.10.2010			
MMENTS						
	rel offeet: DC Block + 20dB atte	nuator + PE Cable + Pat	ch Cable = 22.75 dB. Power setting = 0			
tai reference lev	rei Oliset. De Block + 200B atte	iluator + Nr Cable + rati	cii Cable = 22.73 ub. 1 ower setting = 0			
VIATIONS FROM	M TEST STANDARD					
ne						
			1 1			
nfiguration #	3		And Eling			
		Signature				
			Frequency	Max Value	Limit	
			Range	(dBc)	≤ (dBc)	Result
0 MHz - 2483.5						
	802.11(b) 1 Mbps	140 MH=	Fordonical	N1/A	N1/A	h1/2
	Low Channel 1, 24		Fundamental	N/A	N/A	N/A
	Low Channel 1, 24		30 MHz - 12.5 GHz	-51.86	-30	Pass
	Low Channel 1, 24		12.5 GHz - 25 GHz	-50.26	-30 N/A	Pass
	Mid Channel 6, 243		Fundamental	N/A	N/A	N/A
	Mid Channel 6, 243		30 MHz - 12.5 GHz	-55.39	-30	Pass
	Mid Channel 6, 243		12.5 GHz - 25 GHz	-52.99	-30	Pass
	High Channel 11, 2		Fundamental	N/A	N/A	N/A
	High Channel 11, 2		30 MHz - 12.5 GHz	-55.5	-30	Pass
	High Channel 11, 2	2462 MHz	12.5 GHz - 25 GHz	-53.18	-30	Pass
	802.11(b) 11 Mbps	40.541	<u>-</u>	N1/A	\$1/ \$	
	Low Channel 1, 24		Fundamental	N/A	N/A	N/A
	Low Channel 1, 24		30 MHz - 12.5 GHz	-52.36	-30	Pass
	Low Channel 1, 24		12.5 GHz - 25 GHz	-52.08	-30	Pass
	Mid Channel 6, 243		Fundamental	N/A	N/A	N/A
	Mid Channel 6, 243		30 MHz - 12.5 GHz	-57.3	-30	Pass
	Mid Channel 6, 243		12.5 GHz - 25 GHz	-53.99	-30	Pass
	High Channel 11, 2		Fundamental	N/A	N/A	N/A
	High Channel 11, 2		30 MHz - 12.5 GHz	-55.45	-30	Pass
	High Channel 11, 2	2462 MHZ	12.5 GHz - 25 GHz	-53.56	-30	Pass
	802.11(g) 6 Mbps	140 MH-	Evadencestel	N1/A	NI/A	N1/A
	Low Channel 1, 24		Fundamental	N/A	N/A	N/A
	Low Channel 1, 24 Low Channel 1, 24		30 MHz - 12.5 GHz 12.5 GHz - 25 GHz	-48.73 -48.32	-30 -30	Pass Pass
	Mid Channel 1, 24		12.5 GHz - 25 GHz Fundamental	-48.32 N/A	-30 N/A	N/A
	Mid Channel 6, 243		30 MHz - 12.5 GHz	-56.71 53.06	-30	Pass
	Mid Channel 6, 243		12.5 GHz - 25 GHz	-53.06 N/A	-30 N/A	Pass
	High Channel 11, 2		Fundamental	N/A	N/A	N/A
	High Channel 11, 2		30 MHz - 12.5 GHz	-52.26 -50.27	-30 -30	Pass
	High Channel 11, 2	2402 IVITZ	12.5 GHz - 25 GHz	-50.27	-30	Pass
	802.11(g) 36 Mbps Low Channel 1, 24	12 MU-	Fundamental	N/A	N/A	N/A
	Low Channel 1, 24		30 MHz - 12.5 GHz	N/A -47.52	-30	Pass
	Low Channel 1, 24 Low Channel 1, 24		30 MHZ - 12.5 GHZ 12.5 GHz - 25 GHz	-47.52 -46.18	-30 -30	Pass
	Mid Channel 1, 24		12.5 GHz - 25 GHz Fundamental	-46.18 N/A	-30 N/A	N/A
	Mid Channel 6, 243		30 MHz - 12.5 GHz	-54.06	-30	Pass
	Mid Channel 6, 243		12.5 GHz - 25 GHz	-54.06	-30	Pass
	High Channel 11, 2		12.5 GHz - 25 GHz Fundamental	-50.78 N/A	-30 N/A	N/A
			30 MHz - 12.5 GHz	-50.95	-30	Pass
	High Channel 11, 2 High Channel 11, 2		30 MHz - 12.5 GHz 12.5 GHz - 25 GHz	-50.95 -47.78	-30 -30	Pass
	802.11(g) 54 Mbps	LTOL IVII IL	12.3 GHZ = 23 GHZ	-41.10	-30	rass
	Low Channel 1, 24	112 MHz	Fundamental	N/A	N/A	N/A
	Low Channel 1, 24		30 MHz - 12.5 GHz	N/A -43.54	-30	Pass
	Low Channel 1, 24 Low Channel 1, 24			-43.54 -46.45	-30 -30	Pass
			12.5 GHz - 25 GHz Fundamental	-46.45 N/A	-30 N/A	Pass N/A
	Mid Channel 6, 243					
	Mid Channel 6, 243		30 MHz - 12.5 GHz	-52.65	-30	Pass
	Mid Channel 6, 243		12.5 GHz - 25 GHz	-48.96 N/A	-30 N/A	Pass
						N/A
	High Channel 11, 2		Fundamental			
	High Channel 11, 2 High Channel 11, 2 High Channel 11, 2	2462 MHz	Fundamental 30 MHz - 12.5 GHz 12.5 GHz - 25 GHz	-51.67 -48.17	-30 -30	Pass Pass

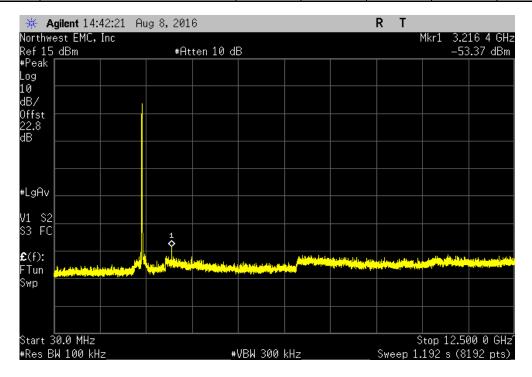
Report No. AWAR0023.2 70/93



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

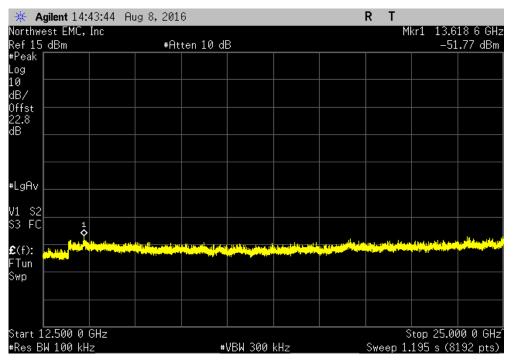


	2400 MHz - 2483.5 MHz Ban	d, 802.11(b) 1 Mb	ps, Low Channel	1, 2412 MHz	
	Frequency		Max Value	Limit	
_	Range		(dBc)	≤ (dBc)	Result
	30 MHz - 12.5 GHz		-51.86	-30	Pass

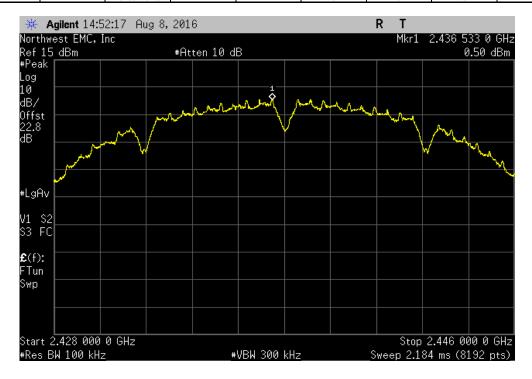




2400 MHz - 2483.5 MHz Band, 8	802.11(b) 1 Mbps, Low Channel	1, 2412 MHz		
Frequency	Max Value	Limit		
Range	(dBc)	≤ (dBc)	Result	
12.5 GHz - 25 GHz	-50.26	-30	Pass	

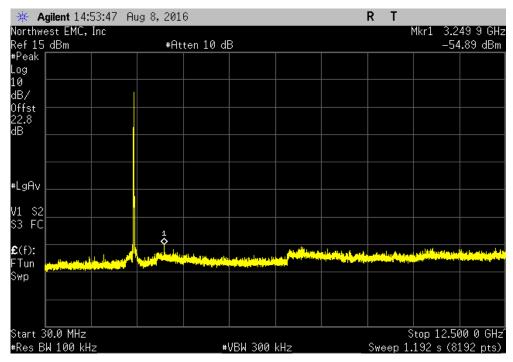


2400 MHz - 2	2483.5 MHz Band, 802.11(b) 1 Mb	ps, Mid Channel	6, 2437 MHz	
Frequency		Max Value	Limit	
Range		(dBc)	≤ (dBc)	Result
Fundamental		N/A	N/A	N/A

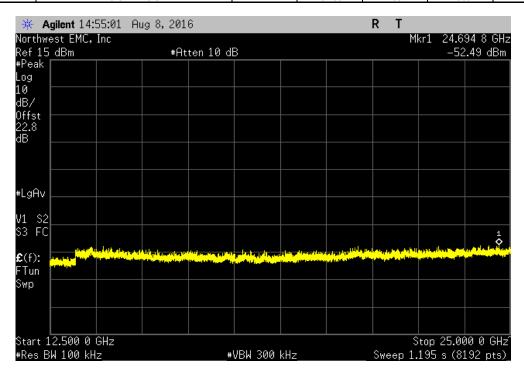




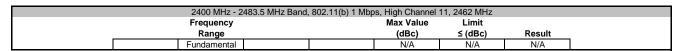
2400 MHz - 2483.5 MHz Band,	, 802.11(b) 1 Mbps, Mid Channel	6, 2437 MHz	
Frequency	Max Value	Limit	
Range	(dBc)	≤ (dBc)	Result
30 MHz - 12.5 GHz	-55.39	-30	Pass

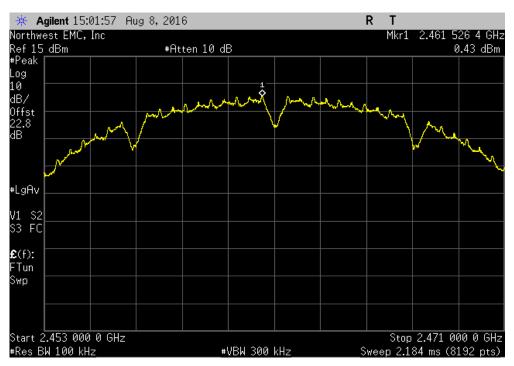


2400 MHz - 2483.5 MHz Ba	nd, 802.11(b) 1 Mb	ps, Mid Channel	6, 2437 MHz	
Frequency		Max Value	Limit	
Range		(dBc)	≤ (dBc)	Result
12.5 GHz - 25 GHz		-52.99	-30	Pass

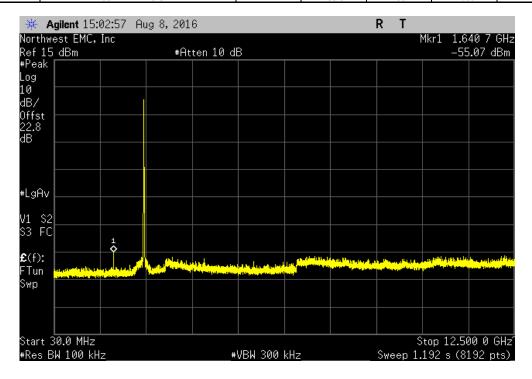






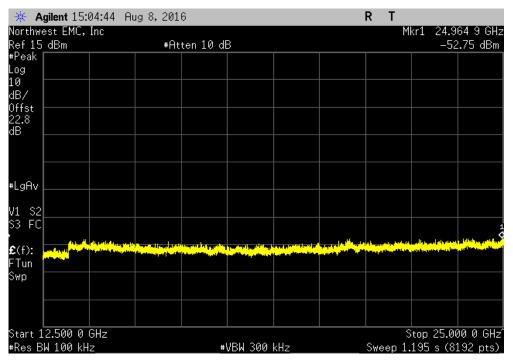


2400 MHz - 2483.5 MHz Band, 802.1	1(b) 1 Mbps, High Channel	11, 2462 MHz	
Frequency	Max Value	Limit	
Range	(dBc)	≤ (dBc)	Result
30 MHz - 12.5 GHz	-55.5	-30	Pass

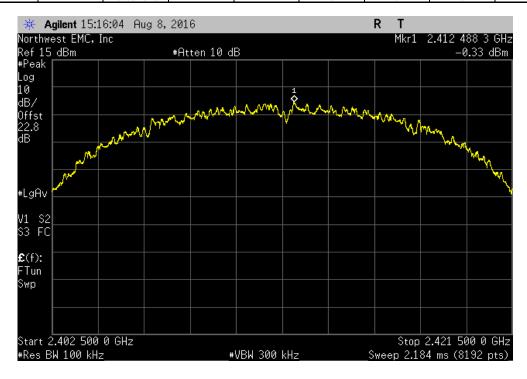




2400 MHz - 2483.5 MHz Band, 8	802.11(b) 1 Mbps, High Channel	11, 2462 MHz	
Frequency	Max Value	Limit	
Range	(dBc)	≤ (dBc)	Result
12.5 GHz - 25 GHz	-53.18	-30	Pass

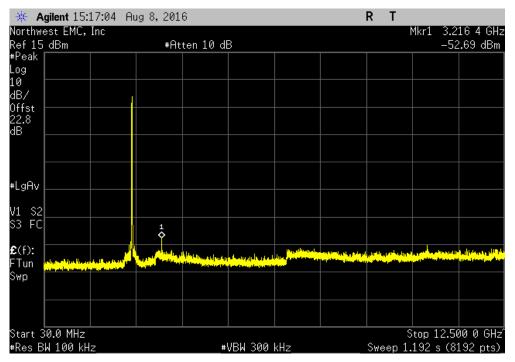


2400 MHz - 2483.5 MHz Band, 8	802.11(b) 11 Mbps, Low Channe	l 1, 2412 MHz	
Frequency	Max Value	Limit	
Range	(dBc)	≤ (dBc)	Result
Fundamental	N/A	N/A	N/A

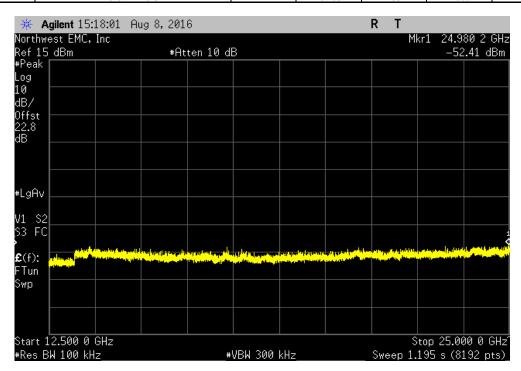




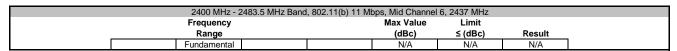
2400 MHz - 2483.5 MHz Band,	802.11(b) 11 Mbps, Low Channe	1, 2412 MHz	
Frequency	Max Value	Limit	
Range	(dBc)	≤ (dBc)	Result
30 MHz - 12.5 GHz	-52.36	-30	Pass

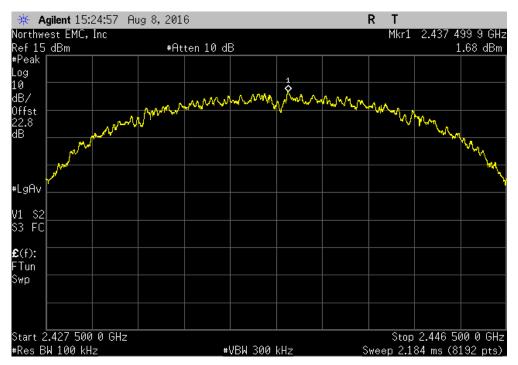


	2400 MHz - 2483.5 MHz Band	l, 802.11(b) 11 Mb	ps, Low Channel	1, 2412 MHz	
	Frequency		Max Value	Limit	
_	Range		(dBc)	≤ (dBc)	Result
	12.5 GHz - 25 GHz		-52.08	-30	Pass

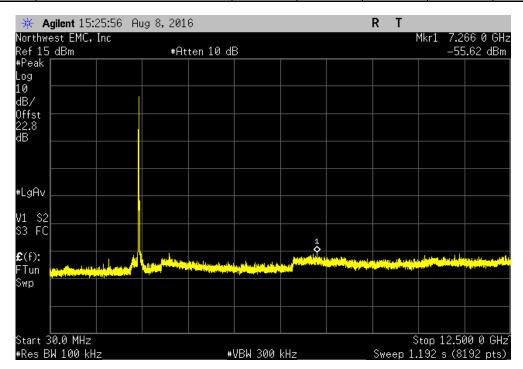






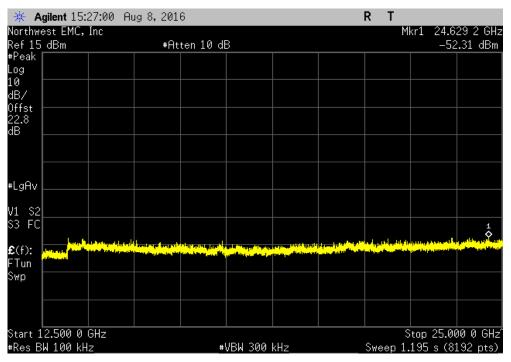


	2400 MHz - 2483.5 MHz Band	l, 802.11(b) 11 MI	bps, Mid Channel	6, 2437 MHz	
	Frequency		Max Value	Limit	
_	Range		(dBc)	≤ (dBc)	Result
ĺ	30 MHz - 12.5 GHz		-57.3	-30	Pass

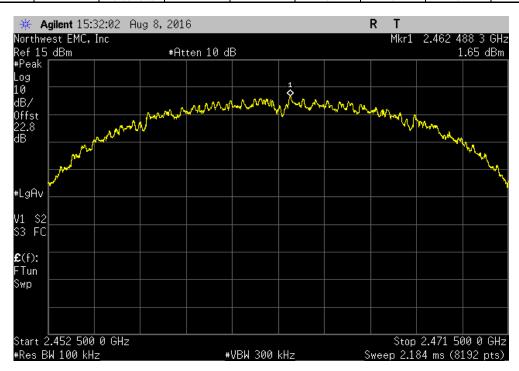




2400 MHz - 2483.5 MHz Band,	802.11(b) 11 Mbps, Mid Channel	6, 2437 MHz	
Frequency	Max Value	Limit	
Range	(dBc)	≤ (dBc)	Result
12.5 GHz - 25 GHz	-53.99	-30	Pass

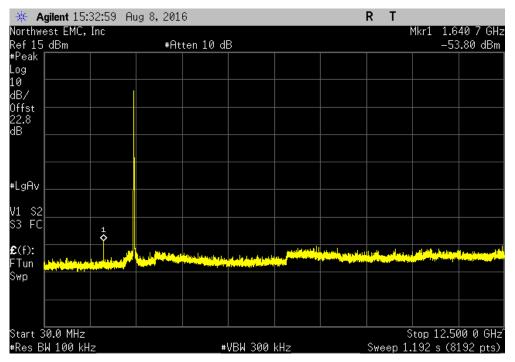


2400 MHz - 2483.5 MHz B	Band, 802.11(b) 11 Mbp	s, High Channel	11, 2462 MHz	
Frequency		Max Value	Limit	
Range		(dBc)	≤ (dBc)	Result
Fundamental		N/A	N/A	N/A

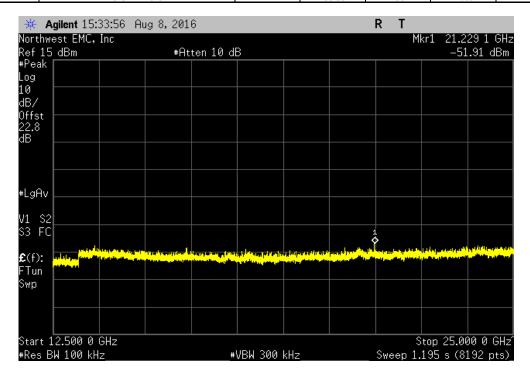




2400 MHz - 2483.5 MHz Band, 8	302.11(b) 11 Mbps	, High Channel	11, 2462 MHz	
Frequency		Max Value	Limit	
Range		(dBc)	≤ (dBc)	Result
30 MHz - 12.5 GHz		-55.45	-30	Pass

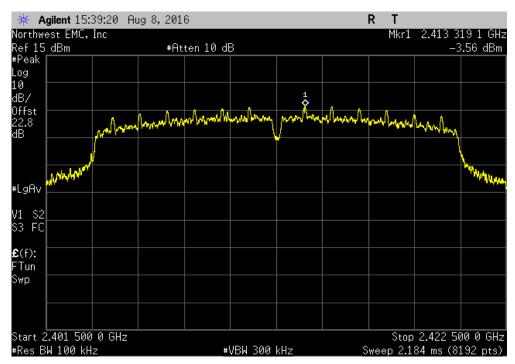


2400 MHz - 2483.5 MHz Band,	802.11(b) 11 Mb	ps, High Channel	11, 2462 MHz	
Frequency		Max Value	Limit	
Range		(dBc)	≤ (dBc)	Result
12.5 GHz - 25 GHz		-53.56	-30	Pass

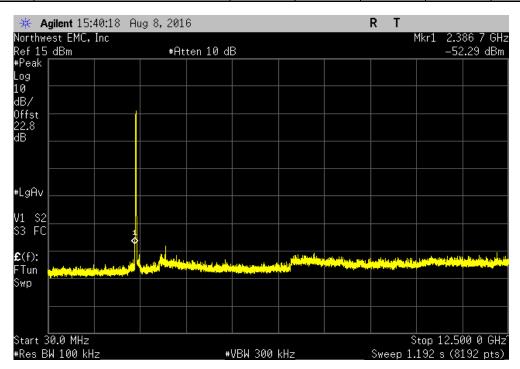




2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz				
_				
Frequency	Max Value	Limit		
Range	(dBc)	≤ (dBc)	Result	
 Range	(ubc)	≥ (ubc)	Result	
Fundamental	N/A	N/A	N/A	

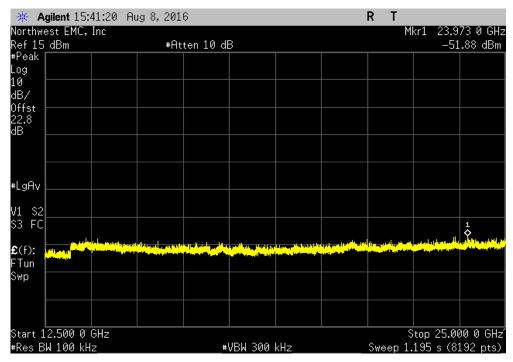


2400 MHz - 2483.5 MHz Band	l, 802.11(g) 6 Mb	ps, Low Channel	1, 2412 MHz		
Frequency		Max Value	Limit		
Range		(dBc)	≤ (dBc)	Result	
30 MHz - 12.5 GHz		-48.73	-30	Pass	

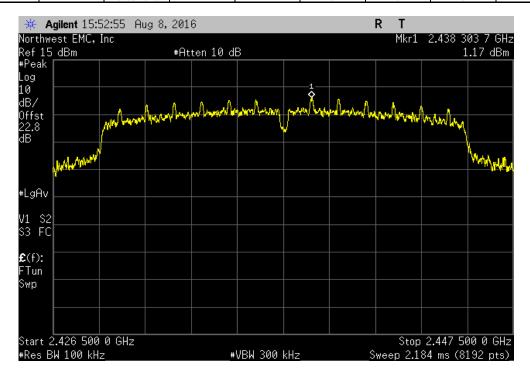




2400 MHz - 2483.5 MHz Band,	, 802.11(g) 6 Mbps, Low Channel	1, 2412 MHz	
Frequency	Max Value	Limit	
Range	(dBc)	≤ (dBc)	Result
12.5 GHz - 25 GHz	-48.32	-30	Pass

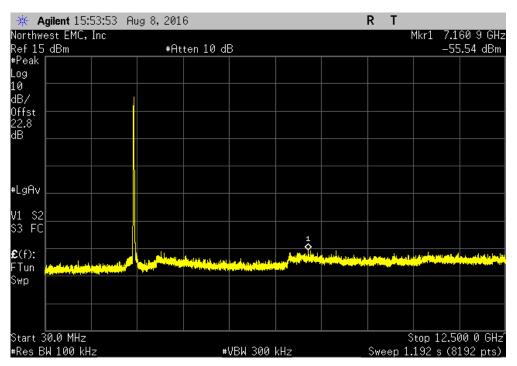


2400 MHz -	2483.5 MHz Band, 802.11(g) 6 Mb	ps, Mid Channel	6, 2437 MHz	
Frequency		Max Value	Limit	
Range		(dBc)	≤ (dBc)	Result
Fundamental		N/A	N/A	N/A

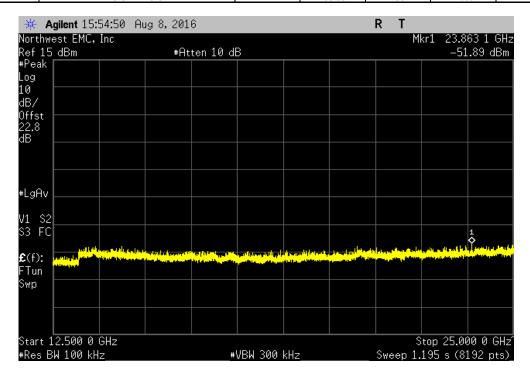




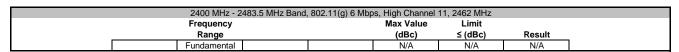
2400 MHz - 2483.5 MHz Band,	, 802.11(g) 6 Mbps, Mid Channel	6, 2437 MHz	
Frequency	Max Value	Limit	
Range	(dBc)	≤ (dBc)	Result
30 MHz - 12.5 GHz	-56.71	-30	Pass

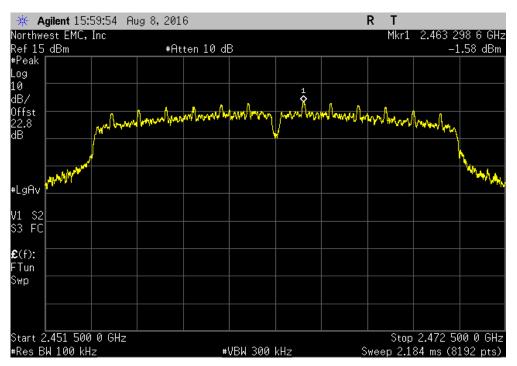


2400 MHz - 2483.5 MHz Ba	nd, 802.11(g) 6 Mb	ps, Mid Channel	6, 2437 MHz	
Frequency		Max Value	Limit	
Range		(dBc)	≤ (dBc)	Result
12.5 GHz - 25 GHz		-53.06	-30	Pass

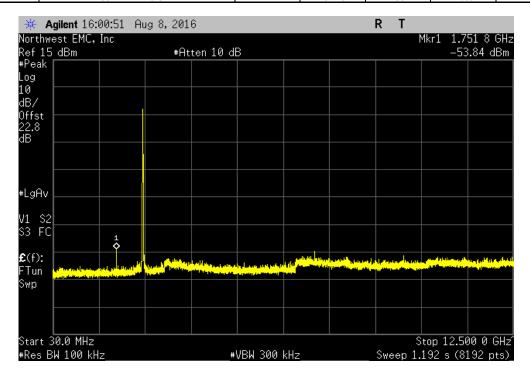






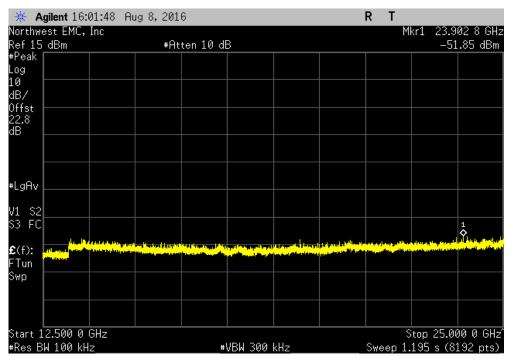


2400 MHz - 2483.5 MHz Band, 8	802.11(g) 6 Mbps, High Channel	11, 2462 MHz	
Frequency	Max Value	Limit	
Range	(dBc)	≤ (dBc)	Result
30 MHz - 12.5 GHz	-52.26	-30	Pass

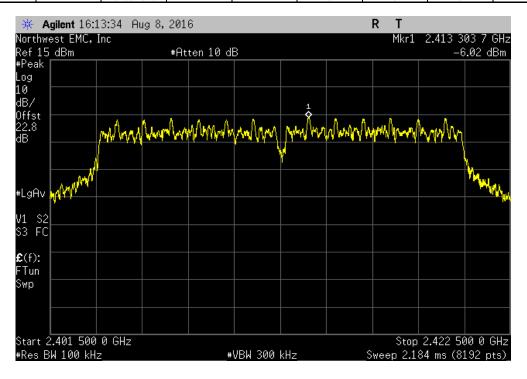




2400 MHz - 2483.5 MHz Band,	802.11(g) 6 Mbps, High Channel	11, 2462 MHz	
Frequency	Max Value	Limit	
Range	(dBc)	≤ (dBc)	Result
12.5 GHz - 25 GHz	-50.27	-30	Pass

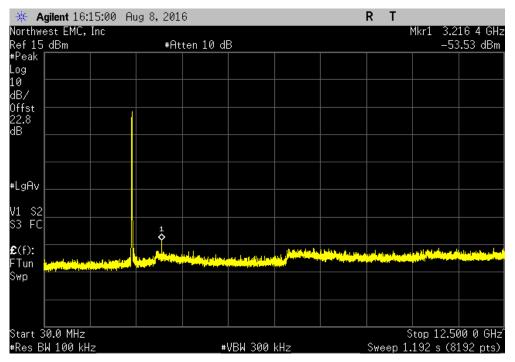


2400	//Hz - 2483.5 MHz Band	l, 802.11(g) 36 MI	ops, Low Channel	1, 2412 MHz	
Freque	ency		Max Value	Limit	
Ran	je [*]		(dBc)	≤ (dBc)	Result
Fundan	ental		N/A	N/A	N/A

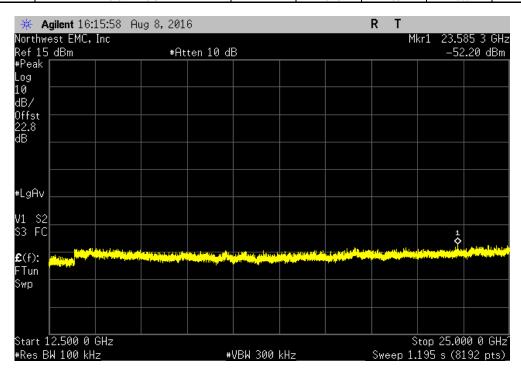




2400 MHz - 2483.5 MHz Band,	802.11(g) 36 Mbps, Low Channe	1, 2412 MHz	
Frequency	Max Value	Limit	
Range	(dBc)	≤ (dBc)	Result
30 MHz - 12.5 GHz	-47.52	-30	Pass

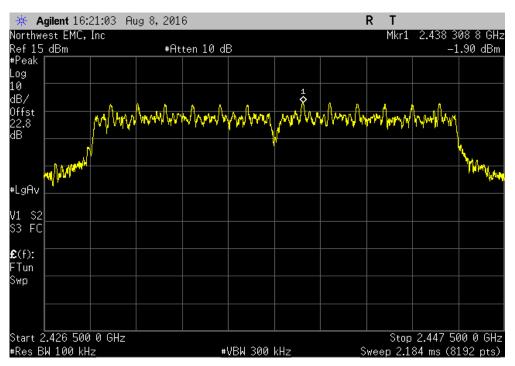


2400 MHz - 2483.5 MHz Band	d, 802.11(g) 36 Mb	ops, Low Channel	1, 2412 MHz	
Frequency		Max Value	Limit	
Range		(dBc)	≤ (dBc)	Result
12.5 GHz - 25 GHz		-46.18	-30	Pass

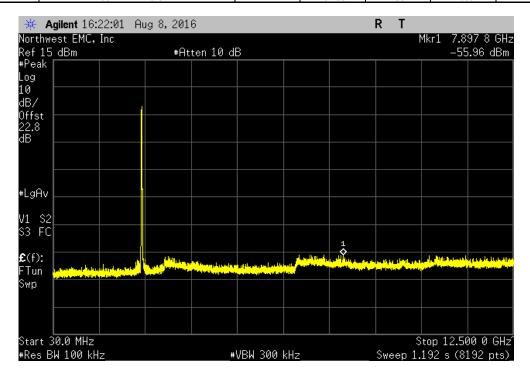




2400 Mi	dz - 2483.5 MHz Band, 802.11(g) 36 M	lbps, Mid Channel	6, 2437 MHz	
Frequen	у	Max Value	Limit	
Range		(dBc)	≤ (dBc)	Result
Fundamer	ital	N/A	N/A	N/A

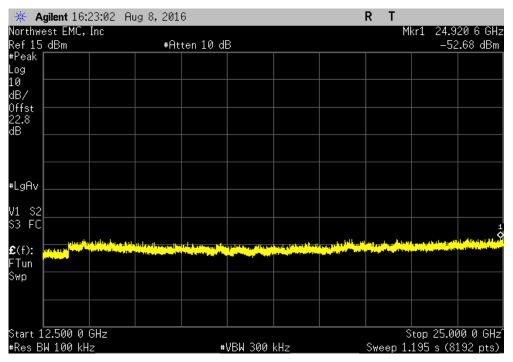


2400 MHz - 2483.5 MHz Band,	802.11(g) 36 Mbps, Mid Channel	6, 2437 MHz	
Frequency	Max Value	Limit	
Range	(dBc)	≤ (dBc)	Result
30 MHz - 12.5 GHz	-54.06	-30	Pass

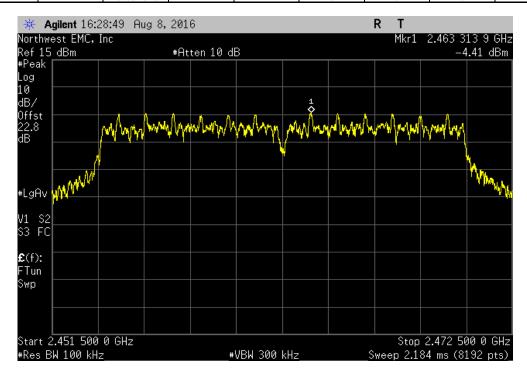




2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz Frequency Max Value Limit
Range (dBc) ≤ (dBc) Result
12.5 GHz - 25 GHz -50.78 -30 Pass

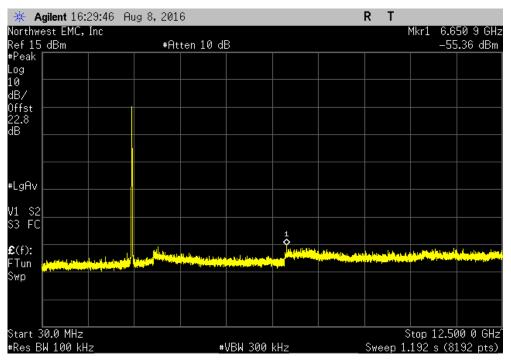


2400 MHz - 2483.5 MHz Band,	802.11(g) 36 Mbps, High Chann	el 11, 2462 MHz	
Frequency	Max Value	Limit	
Range	(dBc)	≤ (dBc)	Result
Fundamental	N/A	N/A	N/A

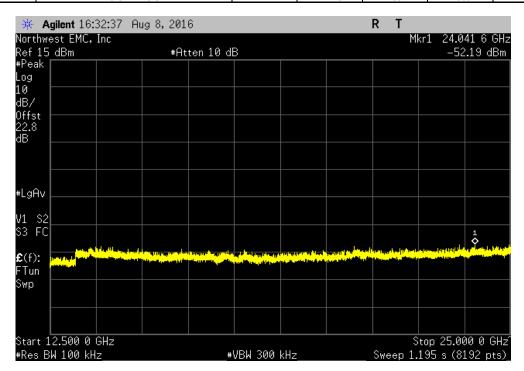




2400 MHz - 2483.5 MHz Band, 8	802.11(g) 36 Mbps, High Channe	l 11, 2462 MHz	
Frequency	Max Value	Limit	
Range	(dBc)	≤ (dBc)	Result
30 MHz - 12.5 GHz	-50.95	-30	Pass

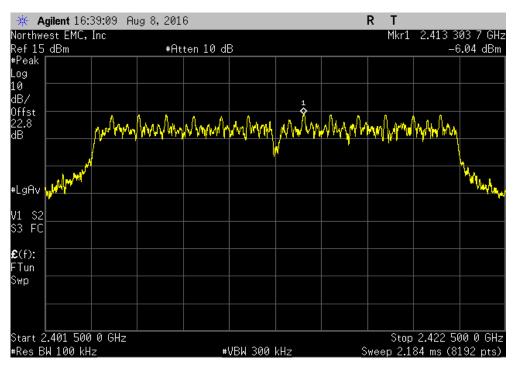


2400 MHz - 2483.5 MHz Band, 802	2.11(g) 36 Mbps, High Channel	11, 2462 MHz	
Frequency	Max Value	Limit	
Range	(dBc)	≤ (dBc)	Result
12.5 GHz - 25 GHz	-47.78	-30	Pass

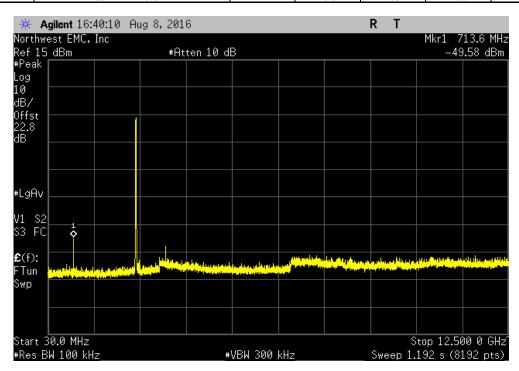




2400 MHz - 2483.5 MHz Ba	ind, 802.11(g) 54 M	pps, Low Channel	1, 2412 MHz	
Frequency		Max Value	Limit	
Range		(dBc)	≤ (dBc)	Result
Fundamental		N/A	N/A	N/A

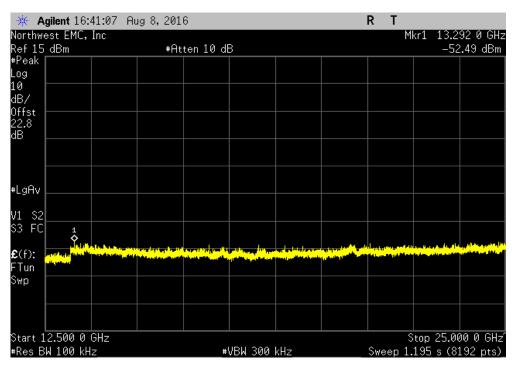


2400 MHz - 2483.5 MHz Band, 8	802.11(g) 54 Mbps, Low Channel	1, 2412 MHz	
Frequency	Max Value	Limit	
Range	(dBc)	≤ (dBc)	Result
30 MHz - 12.5 GHz	-43.54	-30	Pass

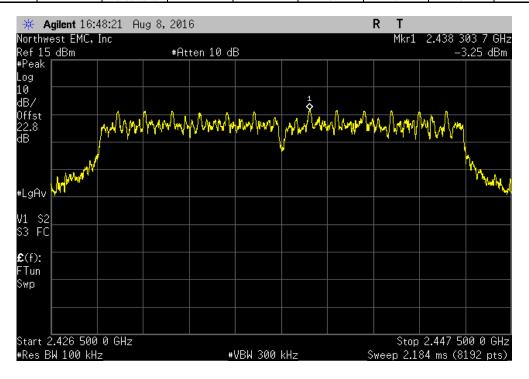




2400 MHz - 2483.5 MHz Band	802.11(g) 54 Mb	ps, Low Channel	1, 2412 MHz		
Frequency		Max Value	Limit		
Range		(dBc)	≤ (dBc)	Result	
12.5 GHz - 25 GHz		-46.45	-30	Pass	

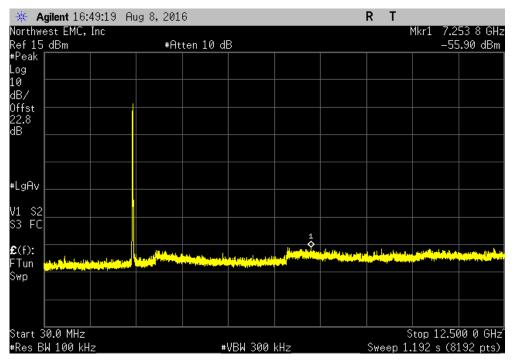


	2400 MHz - 2483.5 MHz Band	l, 802.11(g) 54 Mbps, Mid Channel	6, 2437 MHz	
	Frequency	Max Value	Limit	
_	Range	(dBc)	≤ (dBc)	Result
I	Fundamental	N/A	N/A	N/A

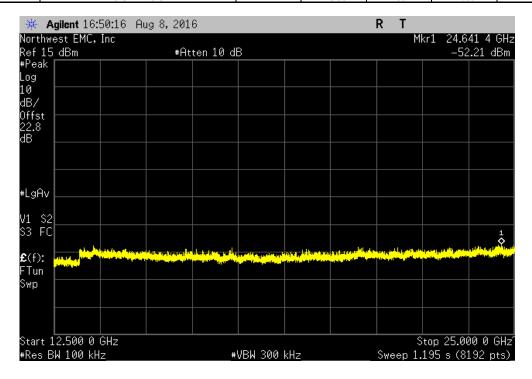




2400 MHz - 2483.5 MHz Band,	802.11(g) 54 Mbps, Mid Channel	6, 2437 MHz	
Frequency	Max Value	Limit	
Range	(dBc)	≤ (dBc)	Result
30 MHz - 12.5 GHz	-52.65	-30	Pass

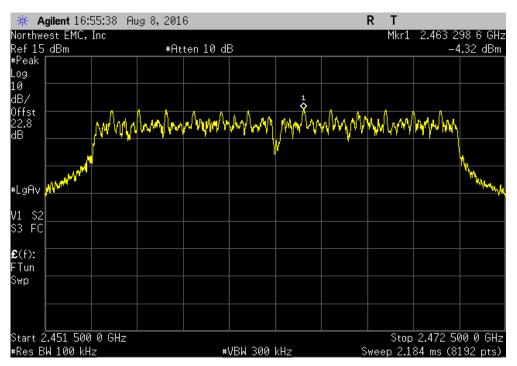


2400 MHz - 2483.5 MHz Band	l, 802.11(g) 54 MI	ops, Mid Channel	6, 2437 MHz	
Frequency		Max Value	Limit	
 Range		(dBc)	≤ (dBc)	Result
12.5 GHz - 25 GHz		-48.96	-30	Pass

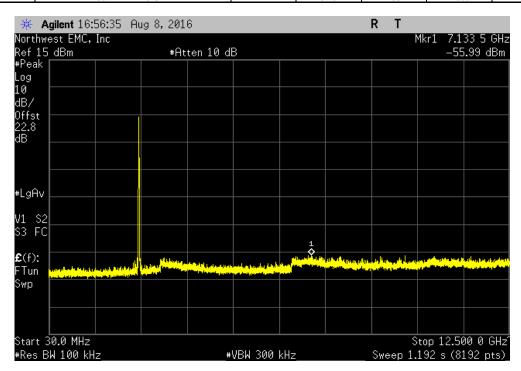




2400 MHz - 2483.5 MHz Bar	nd, 802.11(g) 54 Mb	ps, High Channel	11, 2462 MHz	
Frequency		Max Value	Limit	
Range		(dBc)	≤ (dBc)	Result
Fundamental		N/A	N/A	N/A



2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
Frequency		Max Value	Limit			
 Range		(dBc)	≤ (dBc)	Result		
30 MHz - 12.5 GHz		-51.67	-30	Pass		





2400 MHz - 2483.5 MHz Band, 8	2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz							
Frequency	Max	Value	Limit					
Range	(d	Bc)	≤ (dBc)	Result				
12.5 GHz - 25 GHz	-4	3.17	-30	Pass				

