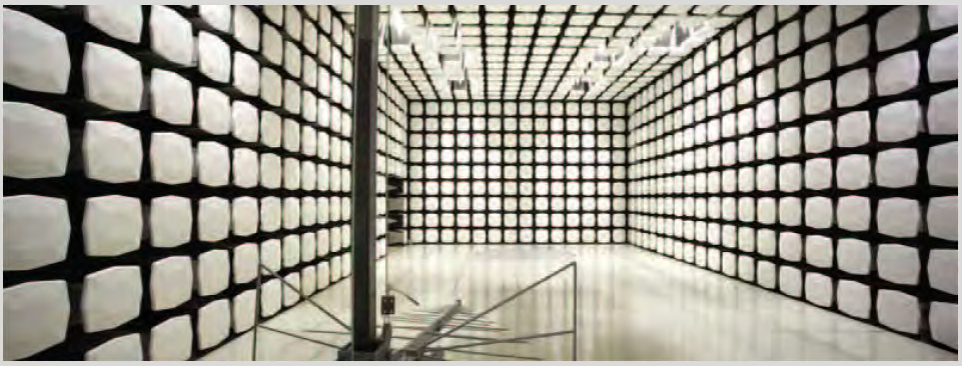
FreeWave Technologies, Inc.

WavePoint 10e Industrial Wireless Router (W2400-01)

FCC 15.247:2014

Report #: FREW0026



Report Prepared By Northwest EMC Inc.

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

California – Minnesota – Oregon – New York – Washington

WTD 12.5.23

CERTIFICATE OF TEST

Last Date of Test: June 04, 2014
FreeWave Technologies, Inc.
Model: WavePoint 10e Industrial Wireless Router
(W2400-01)

Emissions

Test Description	Specification	Test Method	Pass/Fail
Duty Cycle	FCC 15.247:2014	ANSI C63.10:2009	Pass
Occupied Bandwidth	FCC 15.247:2014	ANSI C63.10:2009	Pass
Output Power	FCC 15.247:2014	ANSI C63.10:2009	Pass
Power Spectral Density	FCC 15.247:2014	ANSI C63.10:2009	Pass
Band Edge Compliance	FCC 15.247:2014	ANSI C63.10:2009	Pass
Spurious Conducted Emissions	FCC 15.247:2014	ANSI C63.10:2009	Pass

Deviations From Test Standards

None

Approved By:

Kyle Holgate, Operations Manager

NVLAP Lab Code: 200630-0

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

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

REVISION HISTORY

Revision Number	Description	Date	Page Number
00	None		

Barometric Pressure

The recorded barometric pressure has been normalized to sea level.

NORTHWEST EMC

REV 2012.05.24

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 Guide 65 as a product certifier. This allows Northwest EMC to certify transmitters to FCC and IC specifications.

NVLAP - Each laboratory is accredited by NVLAP to ISO 17025

Canada

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

European Union

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

Australia/New Zealand

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

Korea

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

Japan

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

Taiwan

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

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

Singapore

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

Hong Kong

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

Vietnam

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

Russia

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

SCOPE

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

MEASUREMENT UNCERTAINTY

Measurement Uncertainty

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

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) for each test is on each data sheet. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-1 as applicable), and are available upon request.

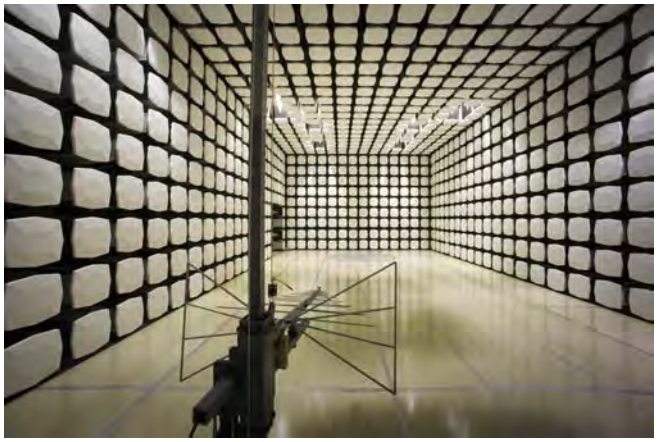
The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

Test	+ MU	- MU
Frequency Accuracy (Hz)	0.12	-0.01
Amplitude Accuracy (dB)	0.49	-0.49
Conducted Power (dB)	0.41	-0.41
Radiated Power via Substitution (dB)	0.69	-0.68
Temperature (degrees C)	0.81	-0.81
Humidity (% RH)	2.89	-2.89
Field Strength (dB)	4.00	-4.00
AC Powerline Conducted Emissions (dB)	2.70	-2.70

FACILITIES

REV 2013.06.28

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



PRODUCT DESCRIPTION

WTD 12.5.23

Client and Equipment Under Test (EUT) Information

Company Name:	FreeWave Technologies, Inc.
Address:	5395 Pearl Parkway, Suite 100
City, State, Zip:	Boulder, CO 80301
Test Requested By:	Dean Busch
Model:	WavePoint 10e Industrial Wireless Router (W2400-01)
First Date of Test:	May 29, 2014
Last Date of Test:	June 4, 2014
Receipt Date of Samples:	May 19, 2014
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):
Industrial Wireless Router with an 802.11bgn radio module

Testing Objective:
To demonstrate compliance under FCC 15.247 for operation in the 2.4 GHz band.

TEST SOFTWARE POWER SETTING TABLE

	Channel Bandwidth SISO Chain A								
	2.5MHz			5MHz			10MHz		
Channel	(MHz)	Mode	Setting	(MHz)	Mode	Setting	(MHz)	Mode	Setting
Low	2403	DBPSK	24	2406	DBPSK	24	2409	DBPSK	23
		QPSK	24		QPSK	24		QPSK	23
		BPSK, 1/2	18		BPSK, 1/2	16		BPSK, 1/2	23
		16-QAM, 3/4	16		16-QAM, 3/4	16		16-QAM, 3/4	23
		64-QAM, 3/4	16		64-QAM, 3/4	16		64-QAM, 3/4	23
		BPSK, 1/2	15		BPSK, 1/2	16		BPSK, 1/2	23
		64-QAM, 5/6	15		64-QAM, 5/6	16		64-QAM, 5/6	23
Mid	2435	DBPSK	24	2436	DBPSK	24	2439	DBPSK	23
		QPSK	24		QPSK	24		QPSK	23
		BPSK, 1/2	18		BPSK, 1/2	16		BPSK, 1/2	23
		16-QAM, 3/4	16		16-QAM, 3/4	16		16-QAM, 3/4	23
		64-QAM, 3/4	16		64-QAM, 3/4	16		64-QAM, 3/4	23
		BPSK, 1/2	15		BPSK, 1/2	16		BPSK, 1/2	23
		64-QAM, 5/6	15		64-QAM, 5/6	15		64-QAM, 5/6	23
High	2470	DBPSK	24	2466	DBPSK	24	2464	DBPSK	23
		QPSK	24		QPSK	24		QPSK	23
		BPSK, 1/2	18		BPSK, 1/2	16		BPSK, 1/2	23
		16-QAM, 3/4	16		16-QAM, 3/4	16		16-QAM, 3/4	23
		64-QAM, 3/4	16		64-QAM, 3/4	16		64-QAM, 3/4	23
		BPSK, 1/2	15		BPSK, 1/2	16		BPSK, 1/2	23
		64-QAM, 5/6	15		64-QAM, 5/6	15		64-QAM, 5/6	23

	Channel Bandwidth 2x2 MIMO Chain A								
	2.5MHz			5MHz			10MHz		
Channel	(MHz)	Mode	Setting	(MHz)	Mode	Setting	(MHz)	Mode	Setting
Low	2403	BPSK, 1/2	14	2406	BPSK, 1/2	12	2409	BPSK, 1/2	23
		64-QAM, 5/6	13		64-QAM, 5/6	11		64-QAM, 5/6	23
Mid	2435	BPSK, 1/2	13	2436	BPSK, 1/2	12	2439	BPSK, 1/2	23
		64-QAM, 5/6	12		64-QAM, 5/6	11		64-QAM, 5/6	23
High	2470	BPSK, 1/2	13	2466	BPSK, 1/2	12	2464	BPSK, 1/2	23
		64-QAM, 5/6	12		64-QAM, 5/6	11		64-QAM, 5/6	23

	Channel Bandwidth 2x2 MIMO Chain B								
	2.5MHz			5MHz			10MHz		
Channel	(MHz)	Mode	Setting	(MHz)	Mode	Setting	(MHz)	Mode	Setting
Low	2403	BPSK, 1/2	12	2406	BPSK, 1/2	12	2409	BPSK, 1/2	23
		64-QAM, 5/6	11		64-QAM, 5/6	11		64-QAM, 5/6	23
Mid	2435	BPSK, 1/2	12	2436	BPSK, 1/2	12	2439	BPSK, 1/2	23
		64-QAM, 5/6	11		64-QAM, 5/6	11		64-QAM, 5/6	23
High	2470	BPSK, 1/2	12	2466	BPSK, 1/2	12	2464	BPSK, 1/2	23
		64-QAM, 5/6	11		64-QAM, 5/6	11		64-QAM, 5/6	23

TEST SOFTWARE POWER SETTING TABLE

	Channel Bandwidth 3x3 MIMO Chain A								
	2.5MHz			5MHz			10MHz		
Channel	(MHz)	Mode	Setting	(MHz)	Mode	Setting	(MHz)	Mode	Setting
Low	2403	BPSK, 1/2	11	2406	BPSK, 1/2	10	2409	BPSK, 1/2	20
		64-QAM, 5/6	10		64-QAM, 5/6	10		64-QAM, 5/6	20
Mid	2435	BPSK, 1/2	11	2436	BPSK, 1/2	10	2439	BPSK, 1/2	20
		64-QAM, 5/6	10		64-QAM, 5/6	10		64-QAM, 5/6	20
High	2470	BPSK, 1/2	11	2466	BPSK, 1/2	10	2464	BPSK, 1/2	20
		64-QAM, 5/6	10		64-QAM, 5/6	10		64-QAM, 5/6	20

	Channel Bandwidth 3x3 MIMO Chain B								
	2.5MHz			5MHz			10MHz		
Channel	(MHz)	Mode	Setting	(MHz)	Mode	Setting	(MHz)	Mode	Setting
Low	2403	BPSK, 1/2	12	2406	BPSK, 1/2	12	2409	BPSK, 1/2	20
		64-QAM, 5/6	12		64-QAM, 5/6	12		64-QAM, 5/6	20
Mid	2435	BPSK, 1/2	12	2436	BPSK, 1/2	12	2439	BPSK, 1/2	20
		64-QAM, 5/6	12		64-QAM, 5/6	12		64-QAM, 5/6	20
High	2470	BPSK, 1/2	12	2466	BPSK, 1/2	12	2464	BPSK, 1/2	20
		64-QAM, 5/6	12		64-QAM, 5/6	12		64-QAM, 5/6	20

	Channel Bandwidth 3x3 MIMO Chain C								
	2.5MHz			5MHz			10MHz		
Channel	(MHz)	Mode	Setting	(MHz)	Mode	Setting	(MHz)	Mode	Setting
Low	2403	BPSK, 1/2	12	2406	BPSK, 1/2	12	2409	BPSK, 1/2	20
		64-QAM, 5/6	12		64-QAM, 5/6	12		64-QAM, 5/6	20
Mid	2435	BPSK, 1/2	12	2436	BPSK, 1/2	12	2439	BPSK, 1/2	20
		64-QAM, 5/6	12		64-QAM, 5/6	12		64-QAM, 5/6	20
High	2470	BPSK, 1/2	12	2466	BPSK, 1/2	12	2464	BPSK, 1/2	20
		64-QAM, 5/6	12		64-QAM, 5/6	12		64-QAM, 5/6	20

Configuration FREW0026- 1

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Wireless Router	FreeWave Technologies, Inc.	WavePoint 10e	None

Peripherals in test setup boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
AC/DC Power Supply	Septre Power	PS-1230APL05	None

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
RS-232 Cable	No	.9m	No	Wireless Router	Serial/USB cable
Serial/USB Cable	No	1m	No	RS-232 Cable	Remote PC
Ethernet Cable	No	1m	No	Wireless Router	Remote PC
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

MODIFICATIONS

Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	5/29/2014	Duty Cycle	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
2	5/29/2014	Band Edge Compliance	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
3	5/29/2014	Occupied Bandwidth	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
4	5/29/2014	Output Power	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
5	5/29/2014	Power Spectral Density	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
6	6/4/2014	Spurious Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

DUTY CYCLE - SISO

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
40GHz DC Block	Miteq	DCB4000	AMD	4/28/2014	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 6 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-6	AUX	7/30/2013	12
Power Meter	Agilent	N1913A	SQR	4/29/2013	36
Power Sensor	Agilent	E9300H	SQO	4/29/2013	36
Spectrum Analyzer	Agilent	E4446A	AAQ	1/21/2014	24
MXG MW Analog Signal Generator 40 Gig	Agilent	N5183A	TID	9/19/2011	36

TEST DESCRIPTION

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.

The measurements were made using a zero span on the spectrum analyzer to see the pulses in the time domain. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used.

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

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

DUTY CYCLE - SISO

EUT:	WavePoint 10e Industrial Wireless Router (W2400-01)	Work Order:	FREW0026
Serial Number:	135268908	Date:	05/29/14
Customer:	FreeWave Technologies, Inc.	Temperature:	22°C
Attendees:	Dean Busch	Humidity:	36%
Project:	None	Barometric Pres.:	1022
Tested by:	Brandon Hobbs, Jared Ison	Power: 12 VDC	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247:2014	ANSI C63.10:2009

COMMENTS

An additional 10dB 5watt attenuater was used inline for all measurements made while under test.Please reference the power levels for this test in the power level table.

DEVIATIONS FROM TEST STANDARD

None

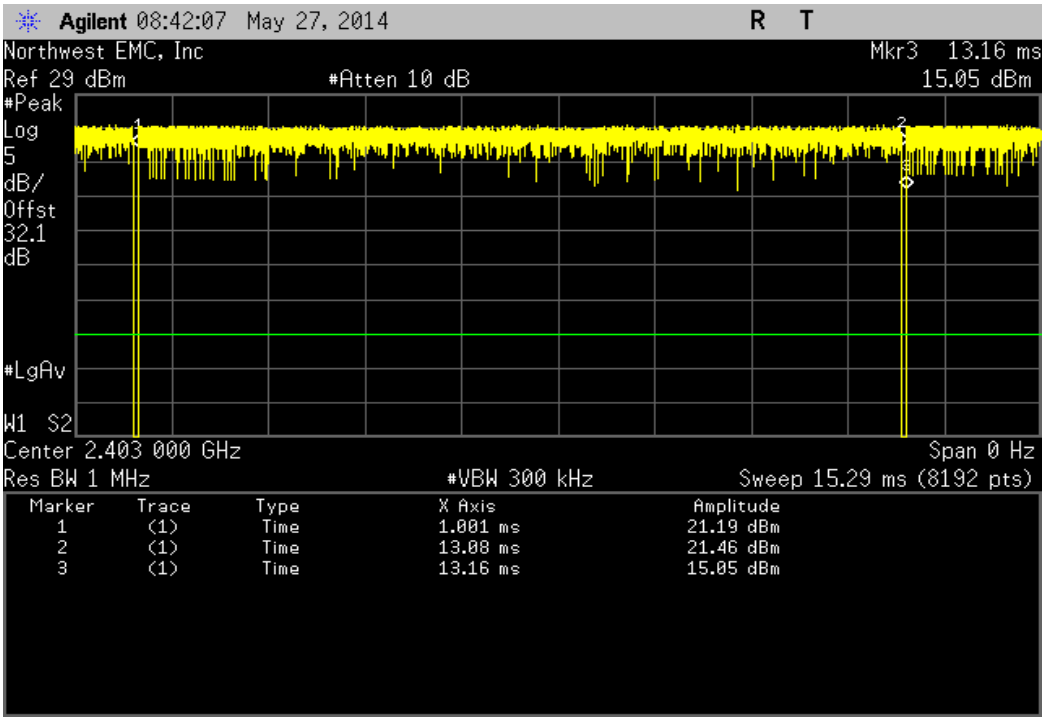
Configuration #	1	Signature

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
2400 MHz - 2483.5 MHz Band						
2.5MHz Bandwidth						
Modulation Type, QPSK						
Low Channel 2403 MHz	12.077 mS	12.16 mS	1	99.3	N/A	N/A
Low Channel 2403 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2435 MHz	12.077 mS	12.16 mS	1	99.3	N/A	N/A
Mid Channel 2435 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2470 MHz	12.077 mS	12.161 mS	1	99.3	N/A	N/A
High Channel 2470 MHz	N/A	N/A	5	N/A	N/A	N/A
Modulation Type, BPSK, Coding Rate, 1/2						
Low Channel 2403 MHz	19.519 mS	19.642 mS	1	99.4	N/A	N/A
Low Channel 2403 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2435 MHz	19.519 mS	19.641 mS	1	99.4	N/A	N/A
Mid Channel 2435 MHz	N/A	N/A	6	N/A	N/A	N/A
High Channel 2470 MHz	19.516 mS	19.642 mS	1	99.4	N/A	N/A
High Channel 2470 MHz	N/A	N/A	5	N/A	N/A	N/A
Modulation Type, 16-QAM, Coding Rate, 3/4						
Low Channel 2403 MHz	3.392 mS	3.515 mS	1	96.5	N/A	N/A
Low Channel 2403 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2435 MHz	3.391 mS	3.515 mS	1	96.5	N/A	N/A
Mid Channel 2435 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2470 MHz	3.392 mS	3.515 mS	1	96.5	N/A	N/A
High Channel 2470 MHz	N/A	N/A	5	N/A	N/A	N/A
Modulation Type, 64-QAM, Coding Rate, 3/4						
Low Channel 2403 MHz	2.336 mS	2.467 mS	1	94.7	N/A	N/A
Low Channel 2403 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2435 MHz	2.336 mS	2.467 mS	1	94.7	N/A	N/A
Mid Channel 2435 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2470 MHz	2.336 mS	2.467 mS	1	94.7	N/A	N/A
High Channel 2470 MHz	N/A	N/A	5	N/A	N/A	N/A
Modulation Type, BPSK, Coding Rate, 1/2						
Low Channel 2403 MHz	992.2 uS	1.117 mS	1	88.8	N/A	N/A
Low Channel 2403 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2435 MHz	992.5 uS	1.117 mS	1	88.8	N/A	N/A
Mid Channel 2435 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2470 MHz	991.4 uS	1.117 mS	1	88.7	N/A	N/A
High Channel 2470 MHz	N/A	N/A	5	N/A	N/A	N/A
Modulation Type, 64-QAM, Coding Rate, 5/6						
Low Channel 2403 MHz	991.8 uS	1.117 mS	1	88.8	N/A	N/A
Low Channel 2403 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2435 MHz	991.8 uS	1.117 mS	1	88.8	N/A	N/A
Mid Channel 2435 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2470 MHz	992.2 uS	1.117 mS	1	88.8	N/A	N/A
High Channel 2470 MHz	N/A	N/A	5	N/A	N/A	N/A
5MHz Bandwidth						
Modulation Type, DBPSK						
Low Channel 2406 MHz	58.76 mS	58.797 mS	1	99.9	N/A	N/A
Low Channel 2406 MHz	N/A	N/A	3	N/A	N/A	N/A
Mid Channel 2436 MHz	58.726 mS	58.782 mS	1	99.9	N/A	N/A
Mid Channel 2436 MHz	N/A	N/A	3	N/A	N/A	N/A
Modulation Type, QPSK						
Low Channel 2406 MHz	6.038 mS	6.083 mS	1	99.3	N/A	N/A
Low Channel 2406 MHz	N/A	N/A	6	N/A	N/A	N/A
Mid Channel 2436 MHz	6.039 mS	6.085 mS	1	99.2	N/A	N/A
Mid Channel 2436 MHz	N/A	N/A	6	N/A	N/A	N/A
High Channel 2466 MHz	6.038 mS	6.083 mS	1	99.3	N/A	N/A
High Channel 2466 MHz	N/A	N/A	6	N/A	N/A	N/A
Modulation Type, BPSK, Coding Rate, 1/2						
Low Channel 2406 MHz	9.759 mS	9.824 mS	1	99.3	N/A	N/A
Low Channel 2406 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2436 MHz	9.759 mS	9.824 mS	1	99.3	N/A	N/A
Mid Channel 2436 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2466 MHz	9.758 mS	9.824 mS	1	99.3	N/A	N/A
High Channel 2466 MHz	N/A	N/A	6	N/A	N/A	N/A
Modulation Type, 16-QAM, Coding Rate, 3/4						
Low Channel 2406 MHz	1.696 mS	1.765 mS	1	96.1	N/A	N/A
Low Channel 2406 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2436 MHz	1.695 mS	1.766 mS	1	96	N/A	N/A
Mid Channel 2436 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2466 MHz	1.695 mS	1.766 mS	1	96	N/A	N/A
High Channel 2466 MHz	N/A	N/A	5	N/A	N/A	N/A

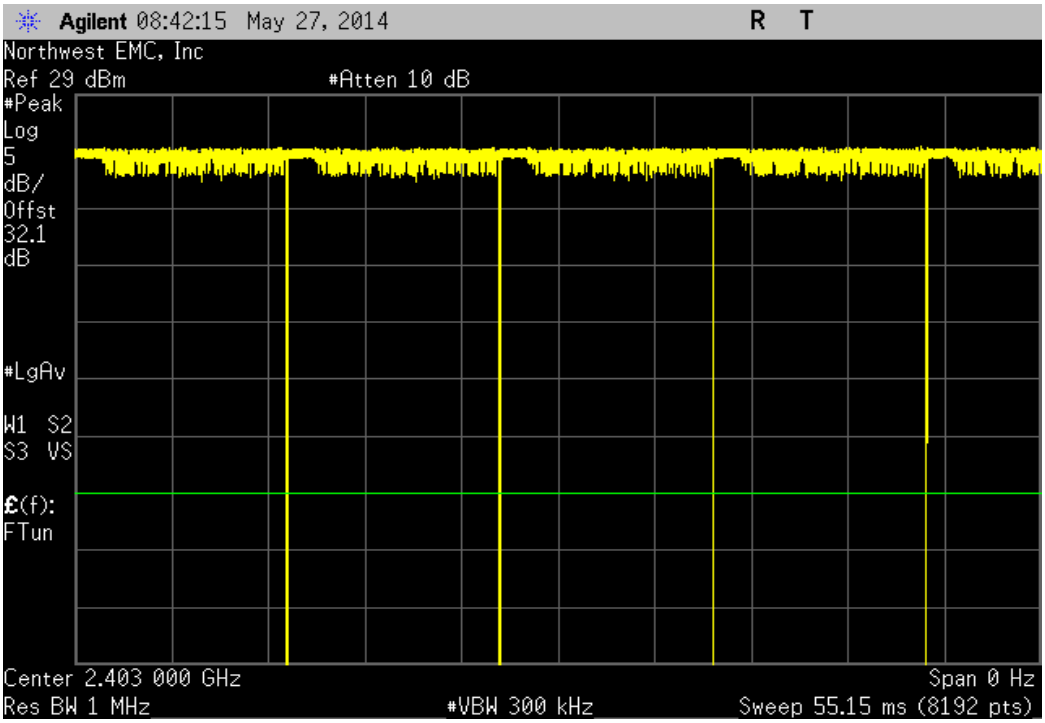
Modulation Type, 64-QAM, Coding Rate, 3/4						
Low Channel 2406 MHz	1.167 mS	1.235 mS	1	94.5	N/A	N/A
Low Channel 2406 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2436 MHz	1.168 mS	1.237 mS	1	94.4	N/A	N/A
Mid Channel 2436 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2466 MHz	1.168 mS	1.237 mS	1	94.5	N/A	N/A
High Channel 2466 MHz	N/A	N/A	5	N/A	N/A	N/A
Modulation Type, BPSK, Coding Rate, 1/2						
Low Channel 2406 MHz	496.1 uS	561.1 uS	1	88.4	N/A	N/A
Low Channel 2406 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2436 MHz	496.1 uS	561.1 uS	1	88.4	N/A	N/A
Mid Channel 2436 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2466 MHz	496.4 uS	561.4 uS	1	88.4	N/A	N/A
High Channel 2466 MHz	N/A	N/A	5	N/A	N/A	N/A
Modulation Type, 64-QAM, Coding Rate, 5/6						
Low Channel 2406 MHz	496.1 uS	561.1 uS	1	88.4	N/A	N/A
Low Channel 2406 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2436 MHz	496.1 uS	561.1 uS	1	88.4	N/A	N/A
Mid Channel 2436 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2466 MHz	495.9 uS	561.1 uS	1	88.4	N/A	N/A
High Channel 2466 MHz	N/A	N/A	5	N/A	N/A	N/A
10MHz Bandwidth						
Modulation Type, DBPSK						
Low Channel 2409 MHz	29.377 mS	29.4 mS	1	99.9	N/A	N/A
Low Channel 2409 MHz	N/A	N/A	4	N/A	N/A	N/A
Mid Channel 2439 MHz	29.377 mS	29.4 mS	1	99.9	N/A	N/A
Mid Channel 2439 MHz	N/A	N/A	4	N/A	N/A	N/A
High Channel 2464 MHz	29.377 mS	29.4 mS	1	99.9	N/A	N/A
High Channel 2464 MHz	N/A	N/A	4	N/A	N/A	N/A
Modulation Type, QPSK						
Low Channel 2409 MHz	3.02 mS	3.044 mS	1	99.2	N/A	N/A
Low Channel 2409 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2439 MHz	3.02 mS	3.044 mS	1	99.2	N/A	N/A
Mid Channel 2439 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2464 MHz	3.02 mS	3.044 mS	1	99.2	N/A	N/A
High Channel 2464 MHz	N/A	N/A	5	N/A	N/A	N/A
Modulation Type, BPSK, Coding Rate, 1/2						
Low Channel 2409 MHz	4.879 mS	4.915 mS	1	99.3	N/A	N/A
Low Channel 2409 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2439 MHz	4.879 mS	4.915 mS	1	99.3	N/A	N/A
Mid Channel 2439 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2464 MHz	4.879 mS	4.918 mS	1	99.2	N/A	N/A
High Channel 2464 MHz	N/A	N/A	5	N/A	N/A	N/A
Modulation Type, 16-QAM, Coding Rate, 3/4						
Low Channel 2409 MHz	846.8 uS	882.3 uS	1	96	N/A	N/A
Low Channel 2409 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2439 MHz	846.8 uS	885.6 uS	1	95.6	N/A	N/A
Mid Channel 2439 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2464 MHz	846.8 uS	882.3 uS	1	96	N/A	N/A
High Channel 2464 MHz	N/A	N/A	5	N/A	N/A	N/A
Modulation Type, 64-QAM, Coding Rate, 3/4						
Low Channel 2409 MHz	582.6 uS	620.4 uS	1	93.9	N/A	N/A
Low Channel 2409 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2439 MHz	583.1 uS	620.7 uS	1	93.9	N/A	N/A
Mid Channel 2439 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2464 MHz	583.1 uS	620.7 uS	1	93.9	N/A	N/A
High Channel 2464 MHz	N/A	N/A	5	N/A	N/A	N/A
Modulation Type, BPSK, Coding Rate, 1/2						
Low Channel 2409 MHz	246.8 uS	283 uS	1	87.2	N/A	N/A
Low Channel 2409 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2439 MHz	247.1 uS	283.3 uS	1	87.2	N/A	N/A
Mid Channel 2439 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2464 MHz	246.8 uS	283 uS	1	87.2	N/A	N/A
High Channel 2464 MHz	N/A	N/A	5	N/A	N/A	N/A
Modulation Type, 64-QAM, Coding Rate, 5/6						
Low Channel 2409 MHz	246.9 uS	283.3 uS	1	87.2	N/A	N/A
Low Channel 2409 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2439 MHz	246.9 uS	283 uS	1	87.2	N/A	N/A
Mid Channel 2439 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2464 MHz	246.9 uS	283.3 uS	1	87.2	N/A	N/A
High Channel 2464 MHz	N/A	N/A	5	N/A	N/A	N/A

DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, QPSK, Low Channel 2403 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	12.077 mS	12.16 mS	1	99.3	N/A	N/A



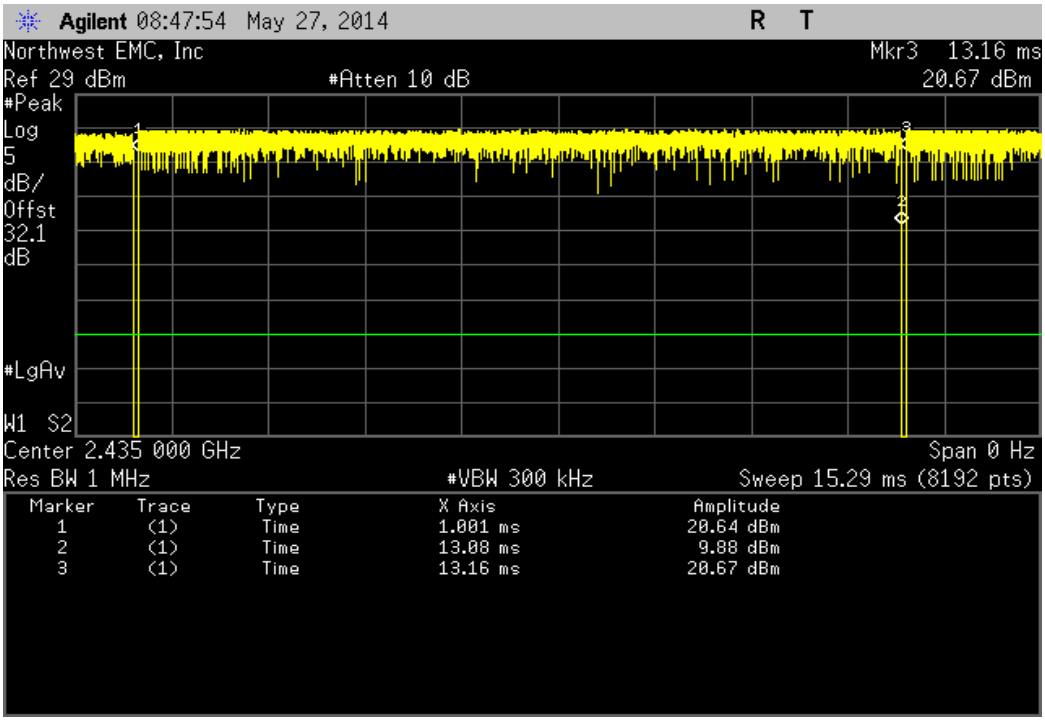
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, QPSK, Low Channel 2403 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - SISO

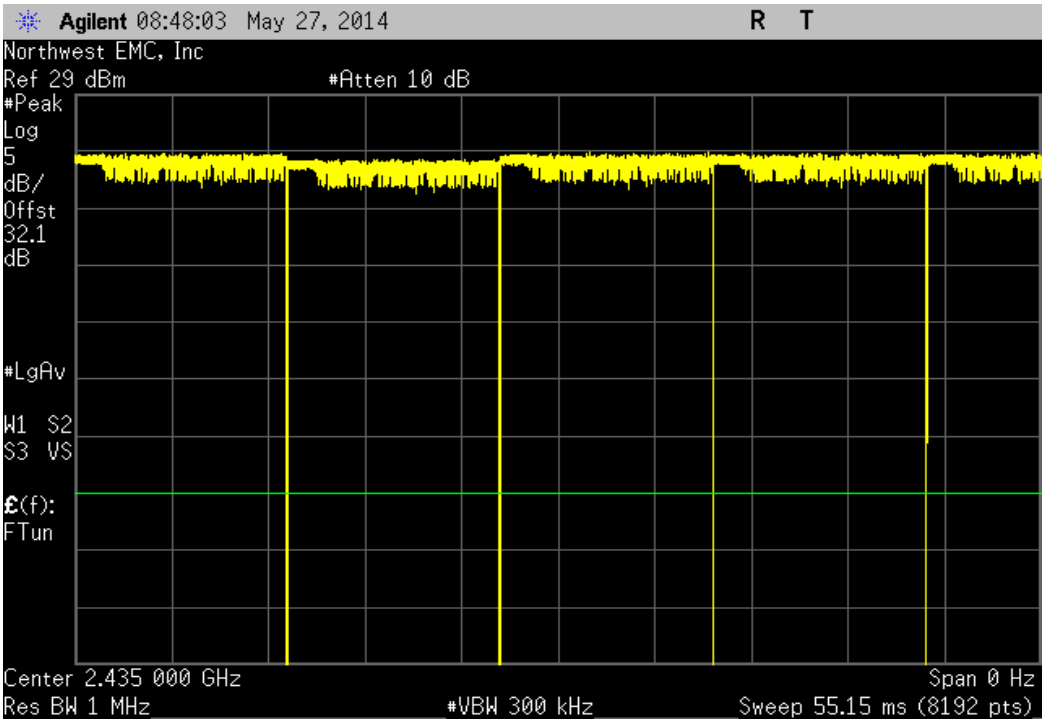
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, QPSK, Mid Channel 2435 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	12.077 mS	12.16 mS	1	99.3	N/A	N/A



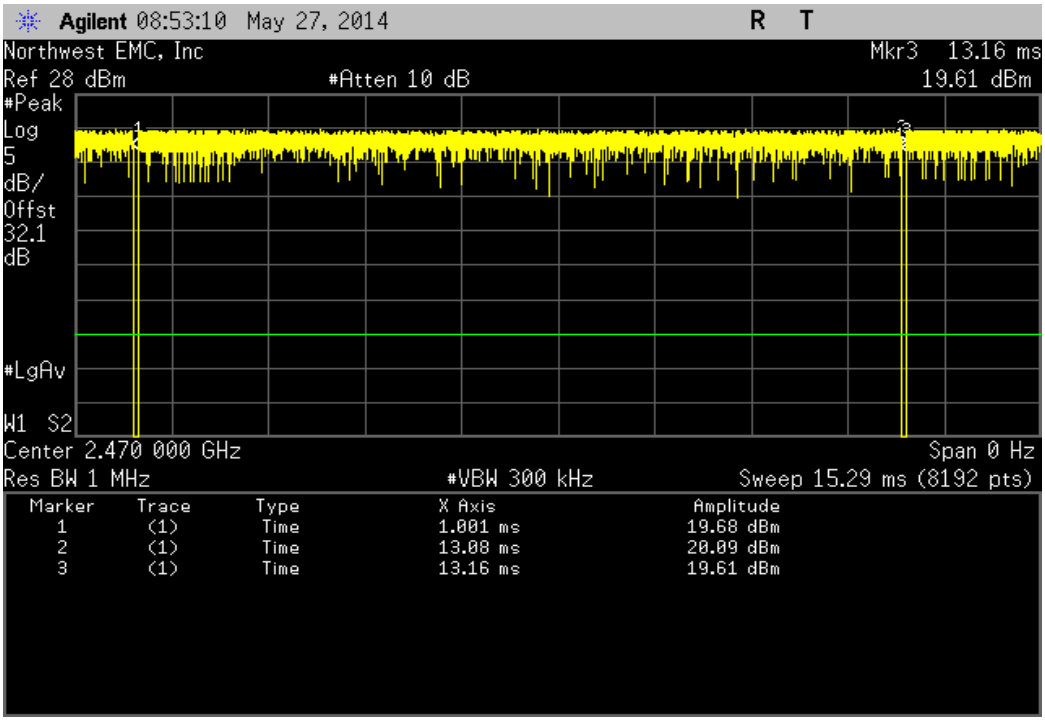
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, QPSK, Mid Channel 2435 MHz

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

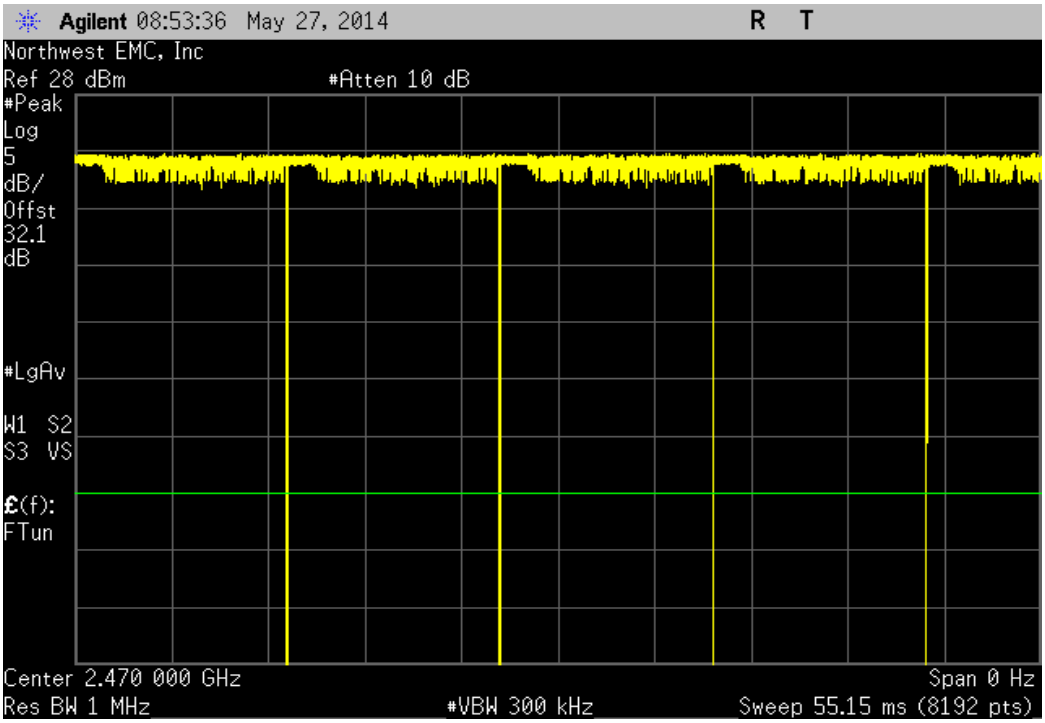


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, QPSK, High Channel 2470 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	12.077 mS	12.161 mS	1	99.3	N/A	N/A

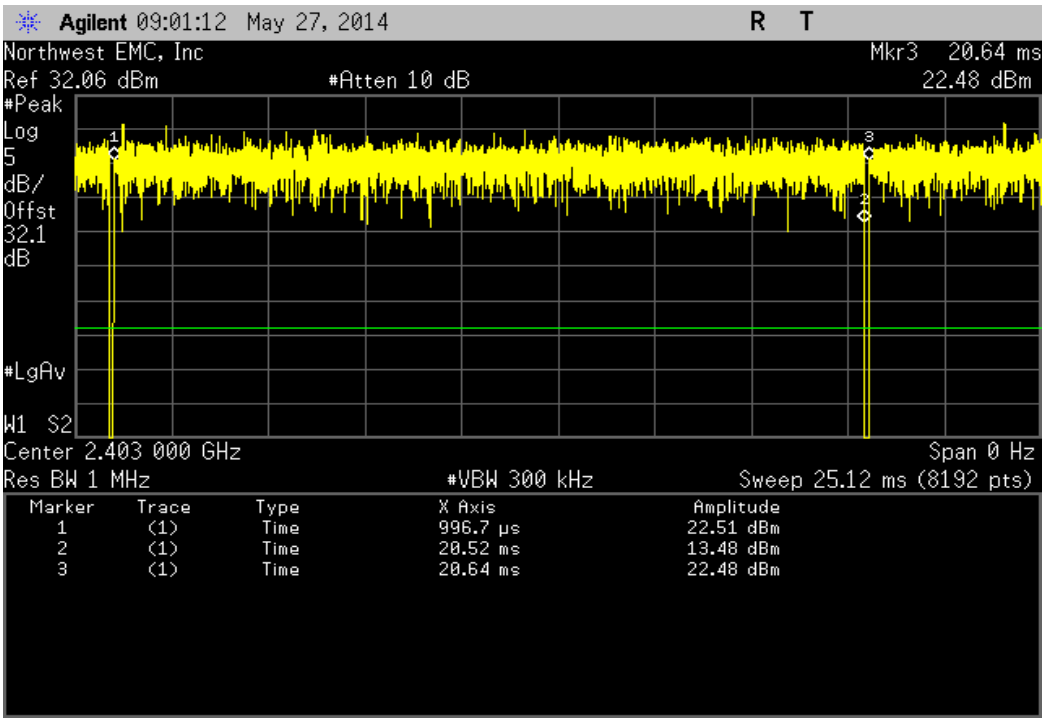


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, QPSK, High Channel 2470 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

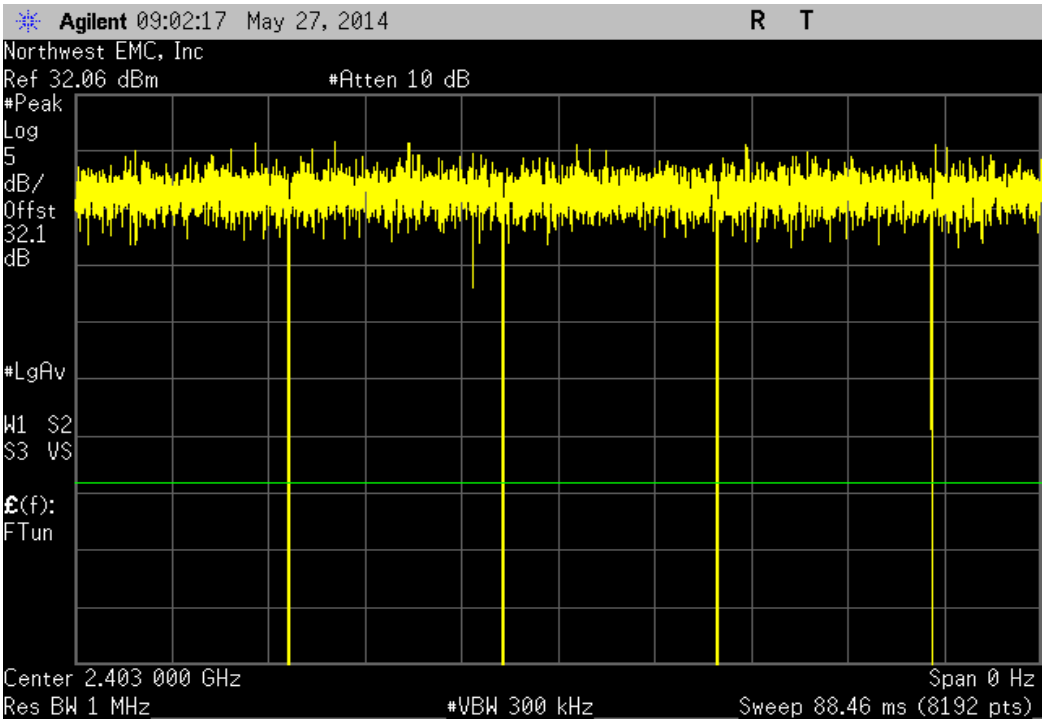


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 2403 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	19.519 mS	19.642 mS	1	99.4	N/A	N/A



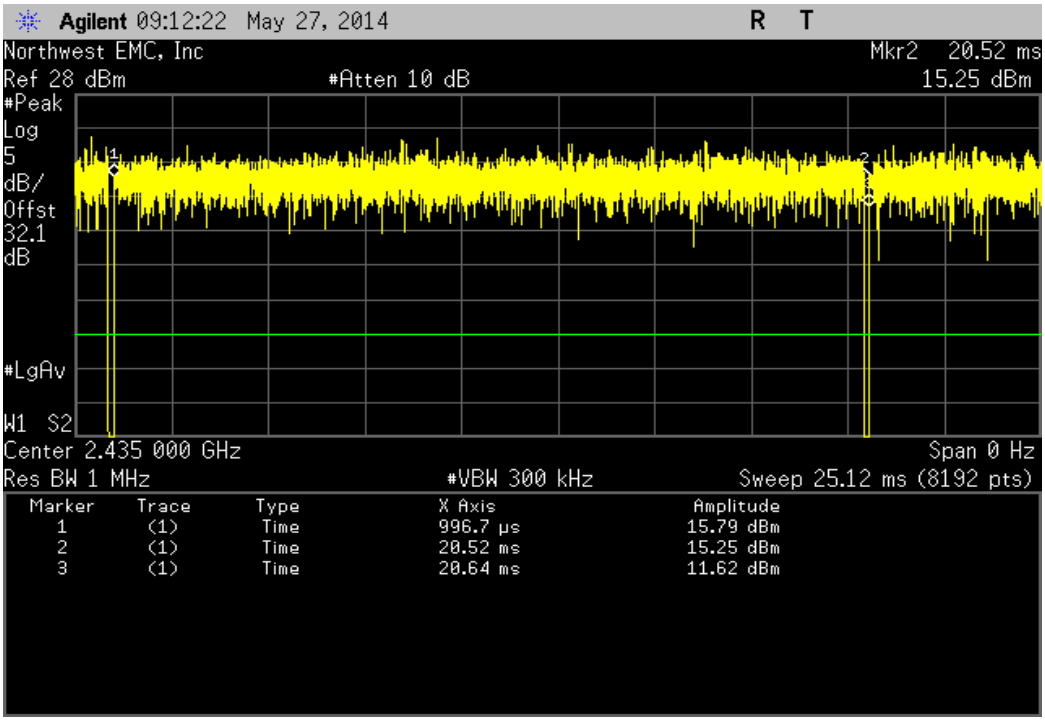
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 2403 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - SISO

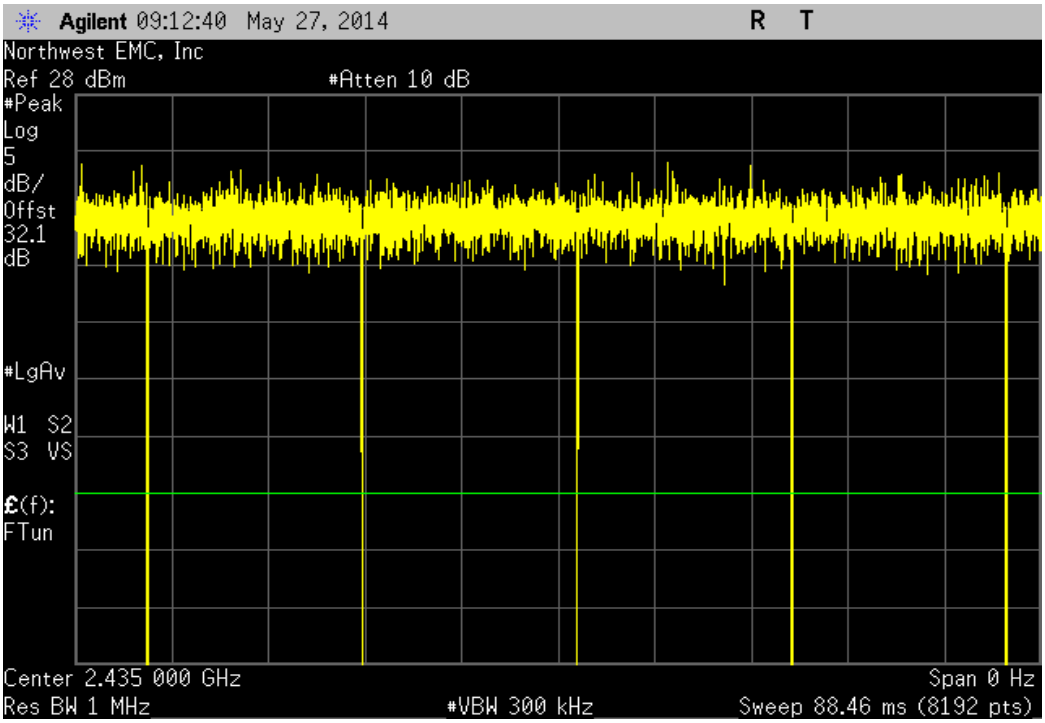
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Mid Channel 2435 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	19.519 mS	19.641 mS	1	99.4	N/A	N/A



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Mid Channel 2435 MHz

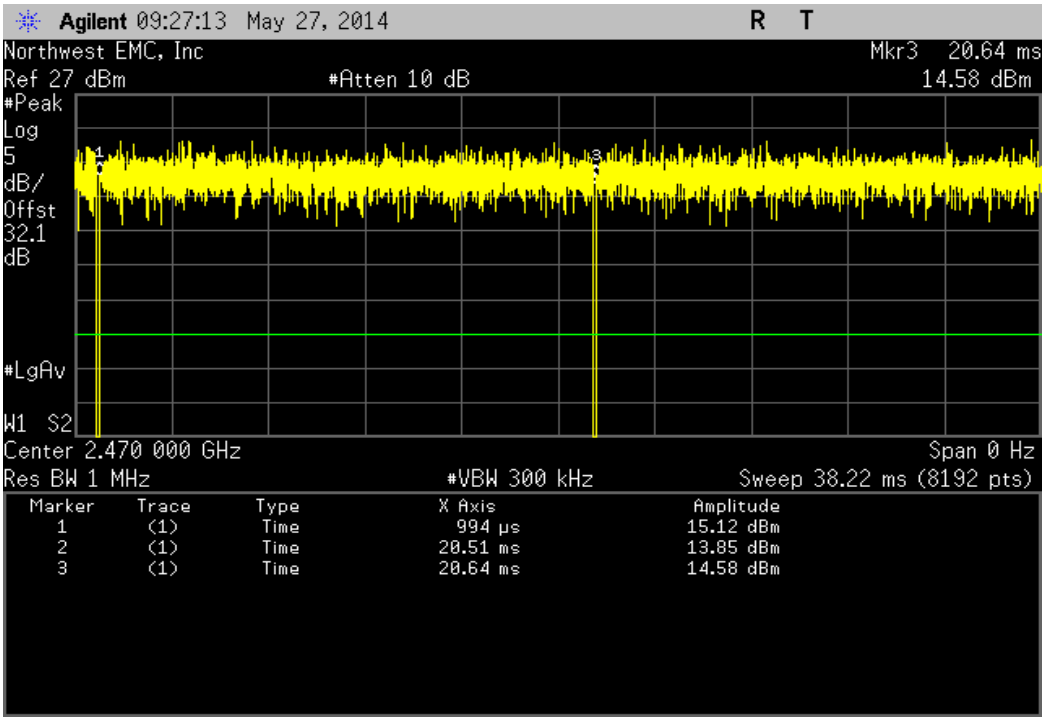
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	6	N/A	N/A	N/A



DUTY CYCLE - SISO

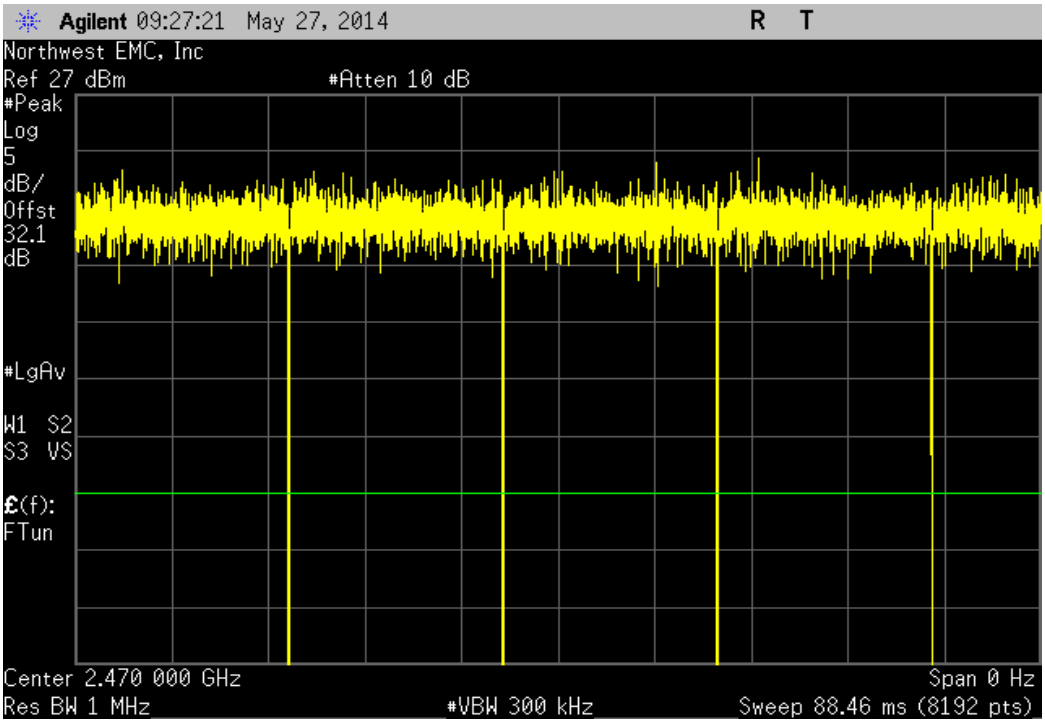
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, High Channel 2470 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	19.516 mS	19.642 mS	1	99.4	N/A	N/A



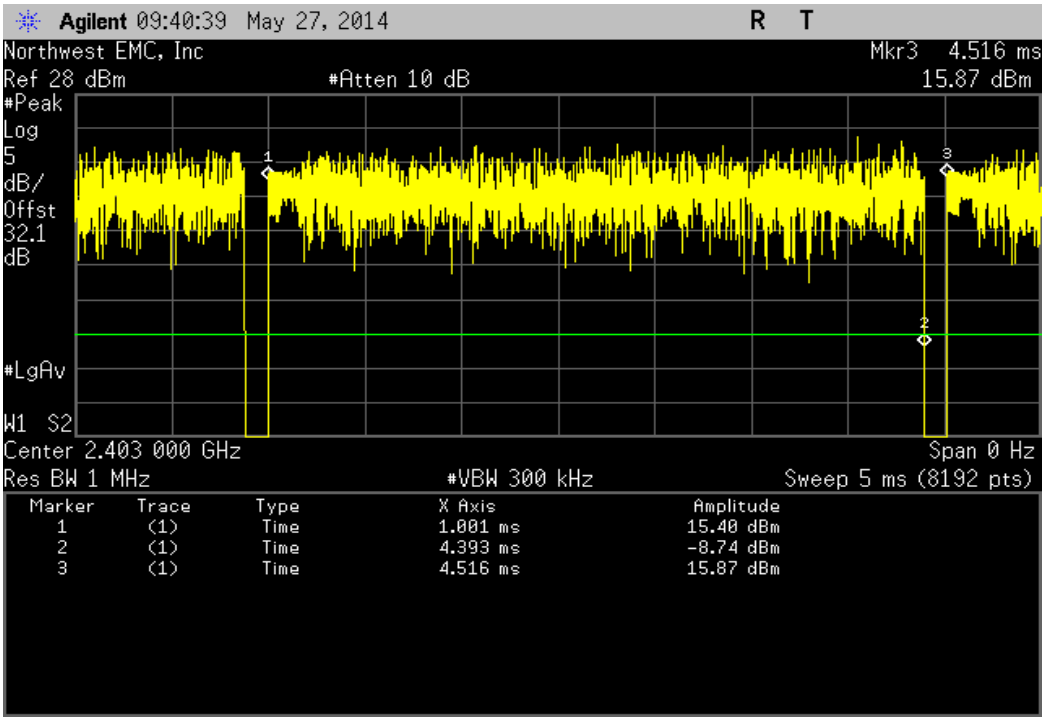
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, High Channel 2470 MHz

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

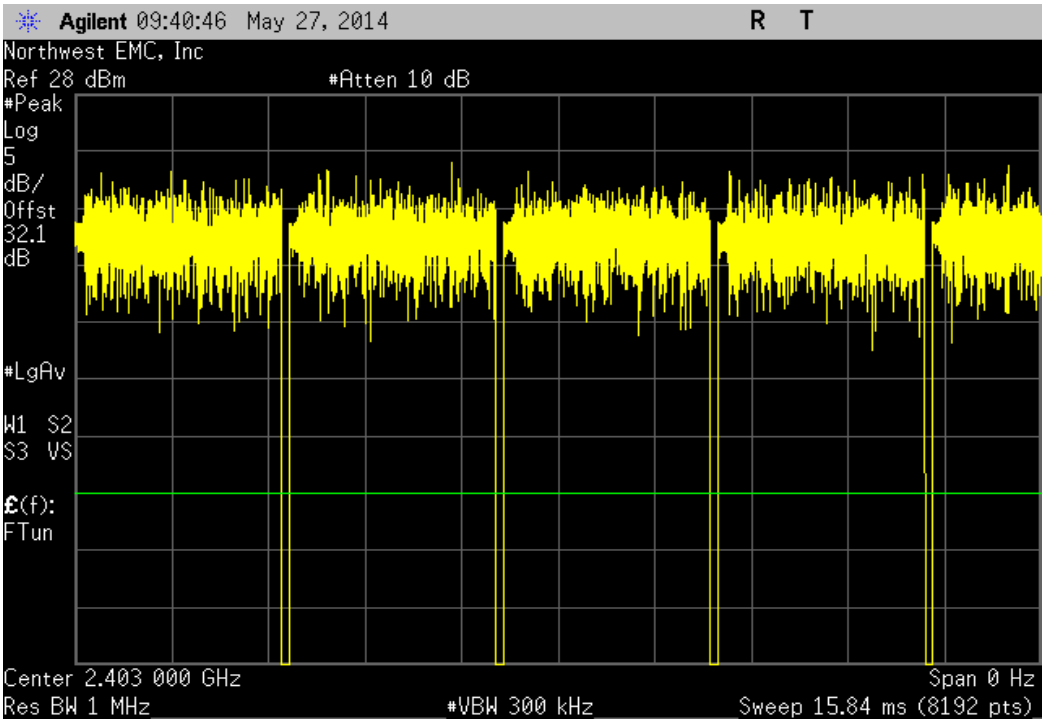


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4, Low Channel 2403 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	3.392 mS	3.515 mS	1	96.5	N/A	N/A



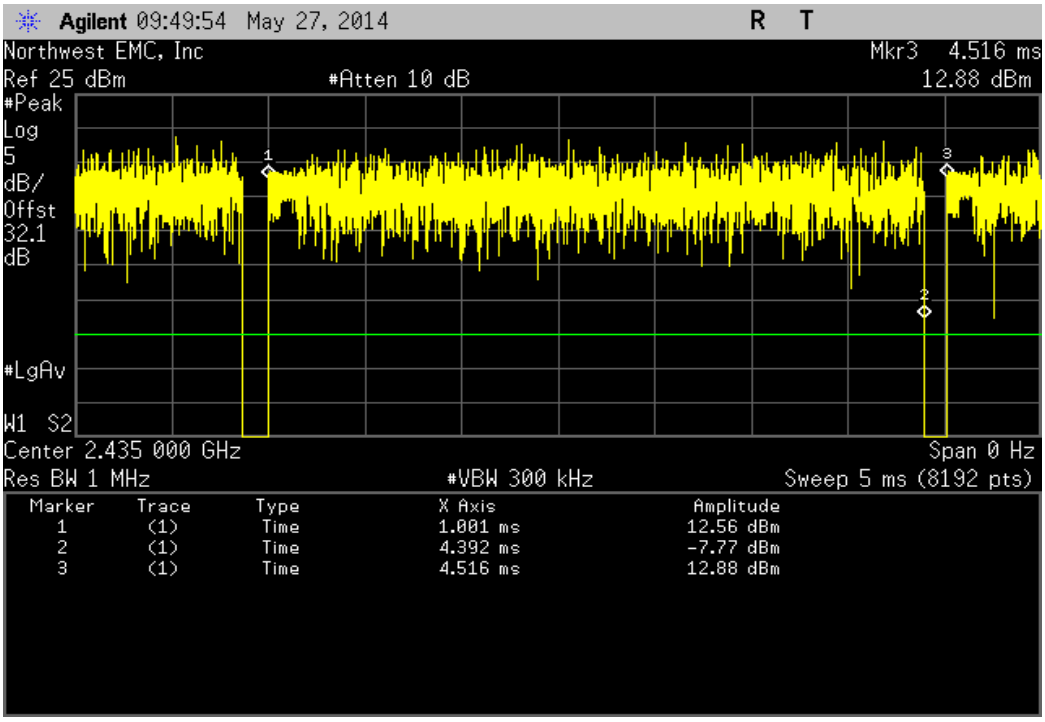
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4, Low Channel 2403 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - SISO

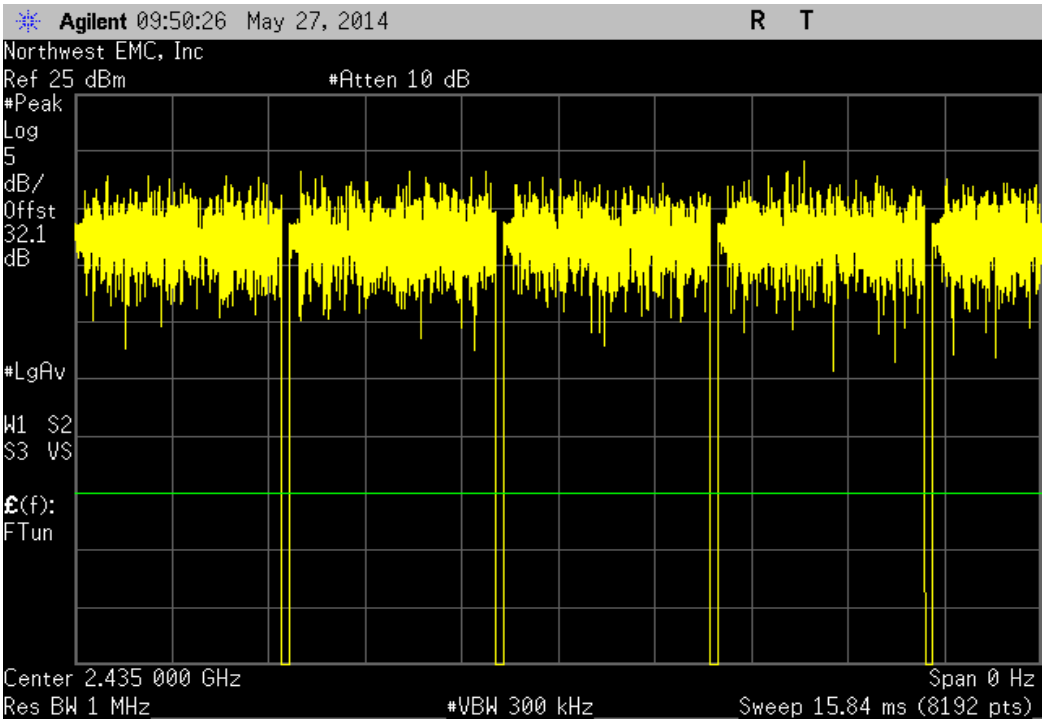
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4, Mid Channel 2435 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	3.391 mS	3.515 mS	1	96.5	N/A	N/A



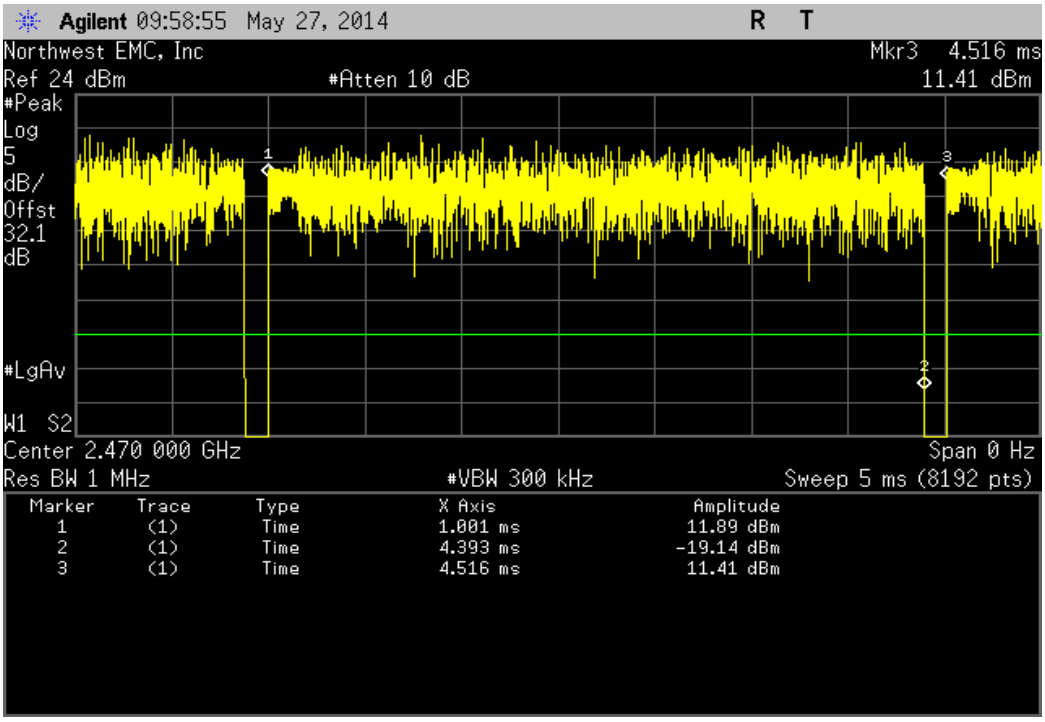
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4, Mid Channel 2435 MHz

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

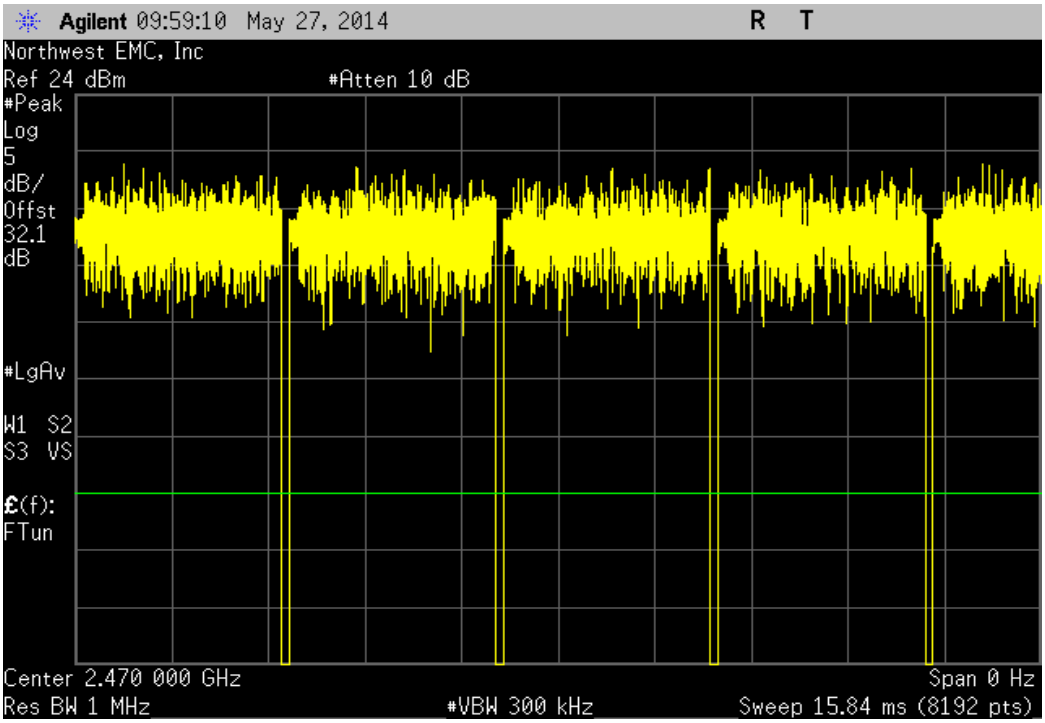


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4, High Channel 2470 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	3.392 mS	3.515 mS	1	96.5	N/A	N/A

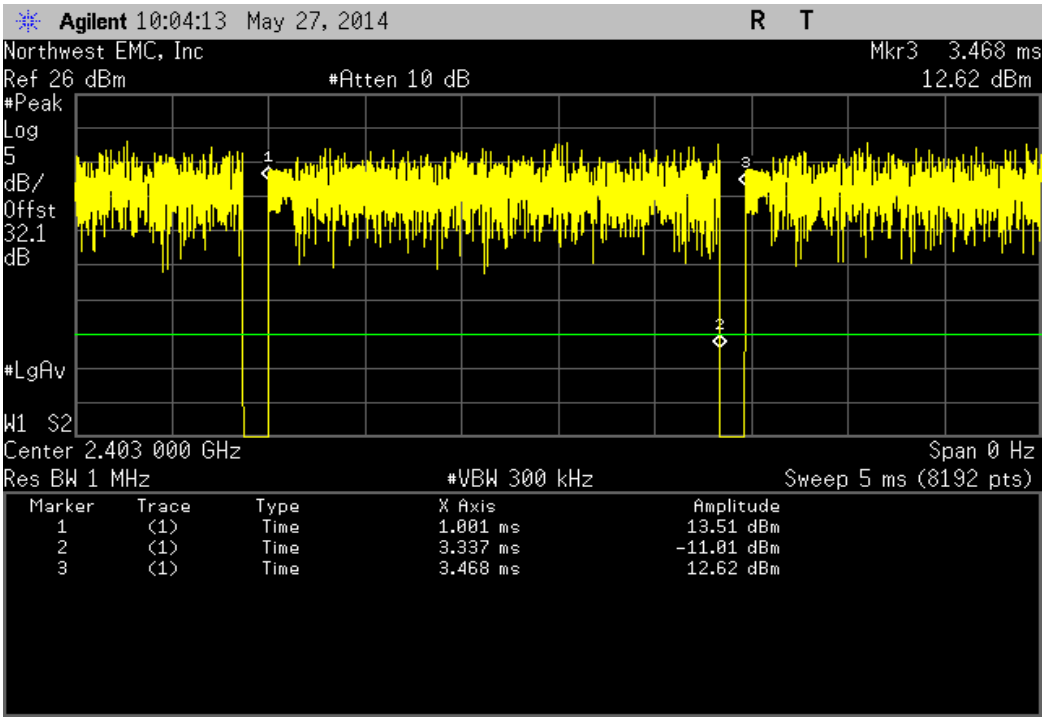


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4, High Channel 2470 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

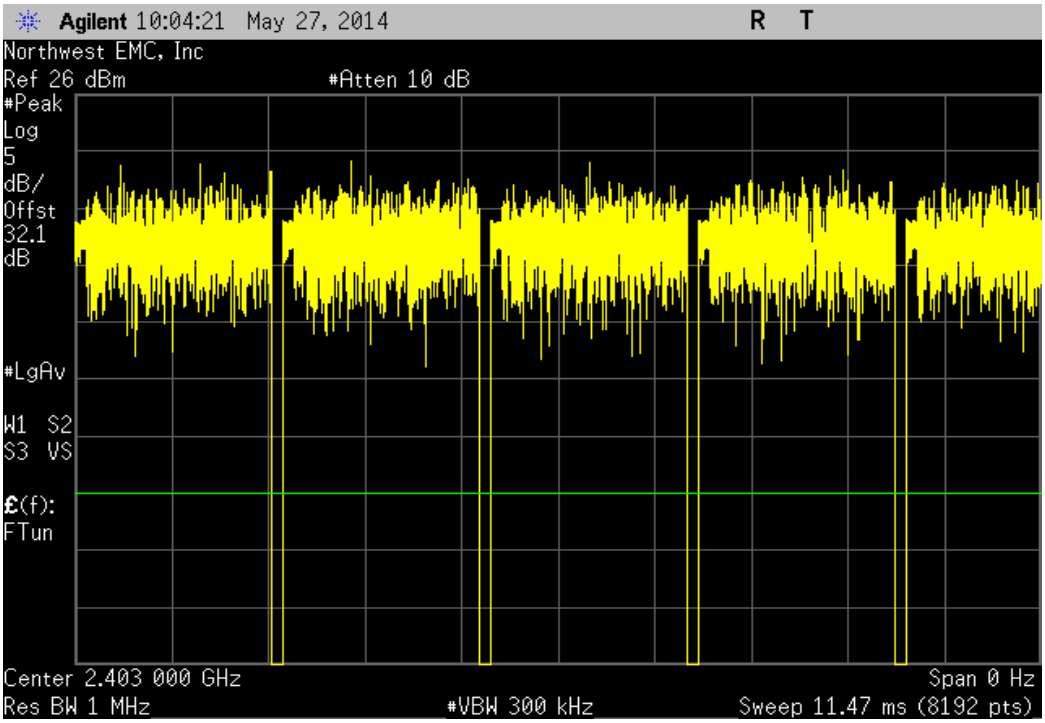


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4, Low Channel 2403 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.336 mS	2.467 mS	1	94.7	N/A	N/A



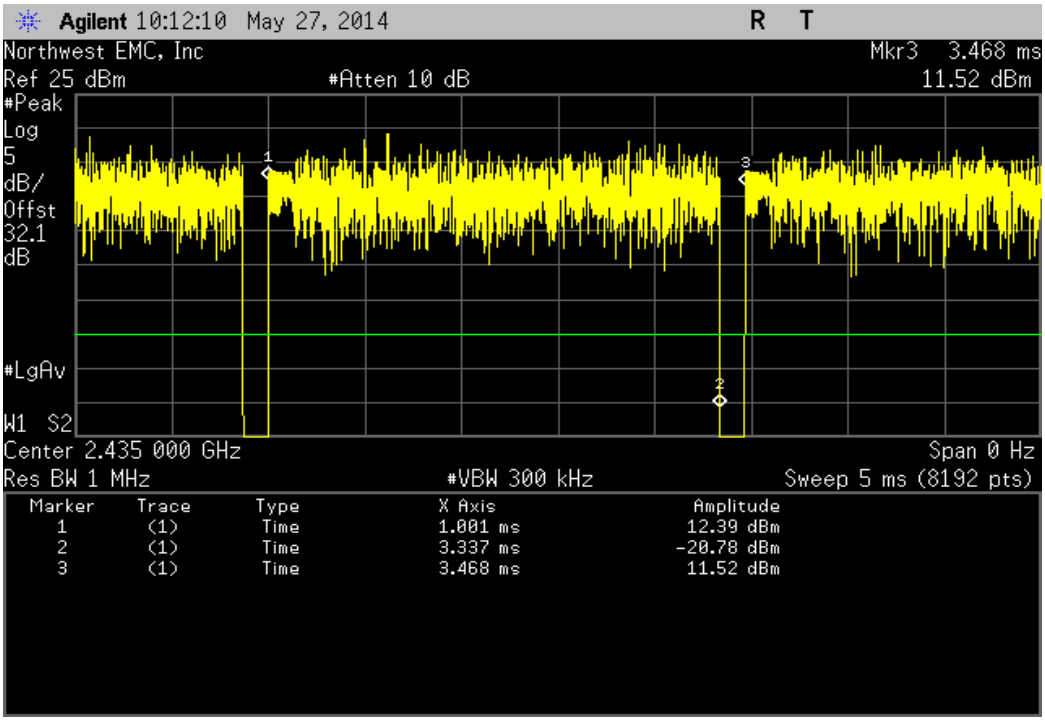
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4, Low Channel 2403 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - SISO

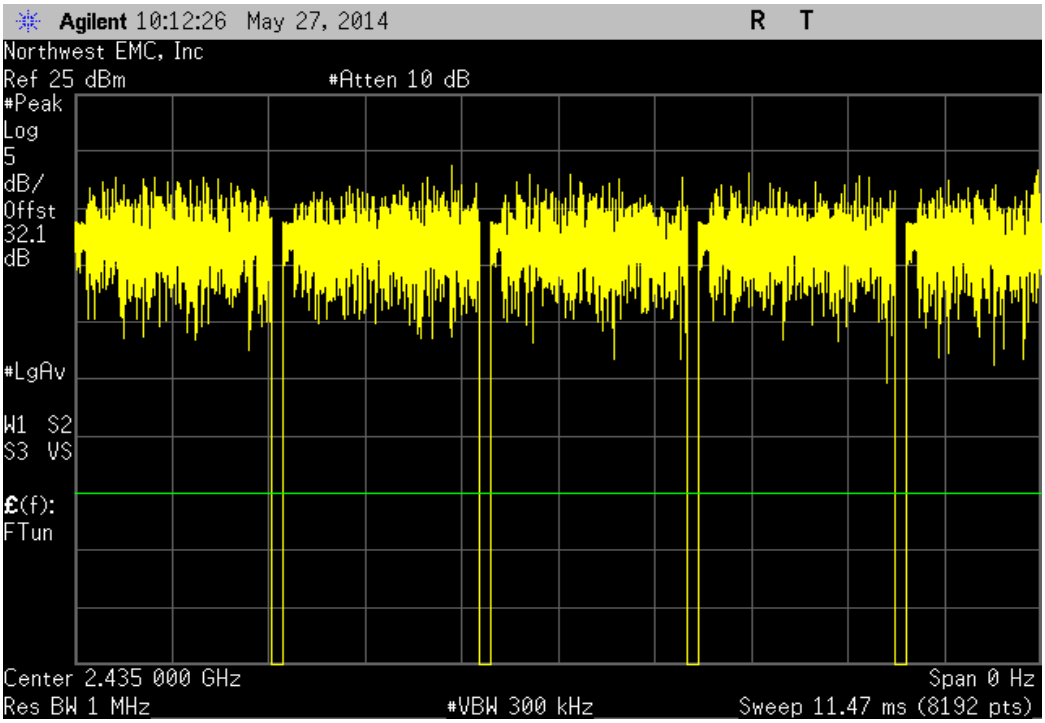
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4, Mid Channel 2435 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.336 mS	2.467 mS	1	94.7	N/A	N/A



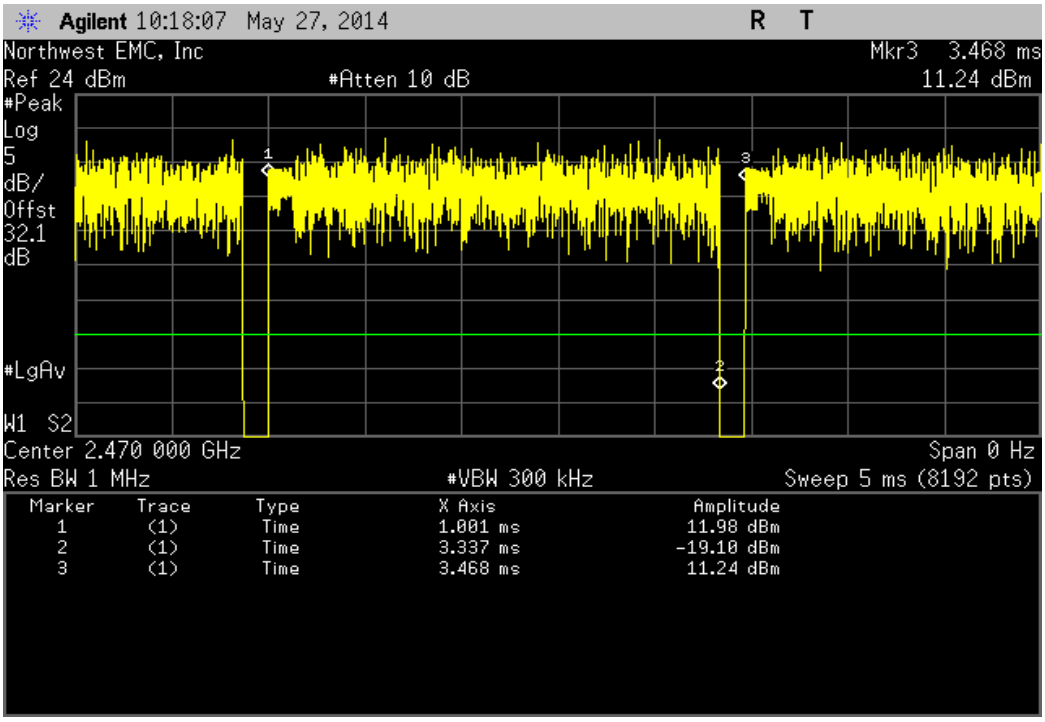
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4, Mid Channel 2435 MHz

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

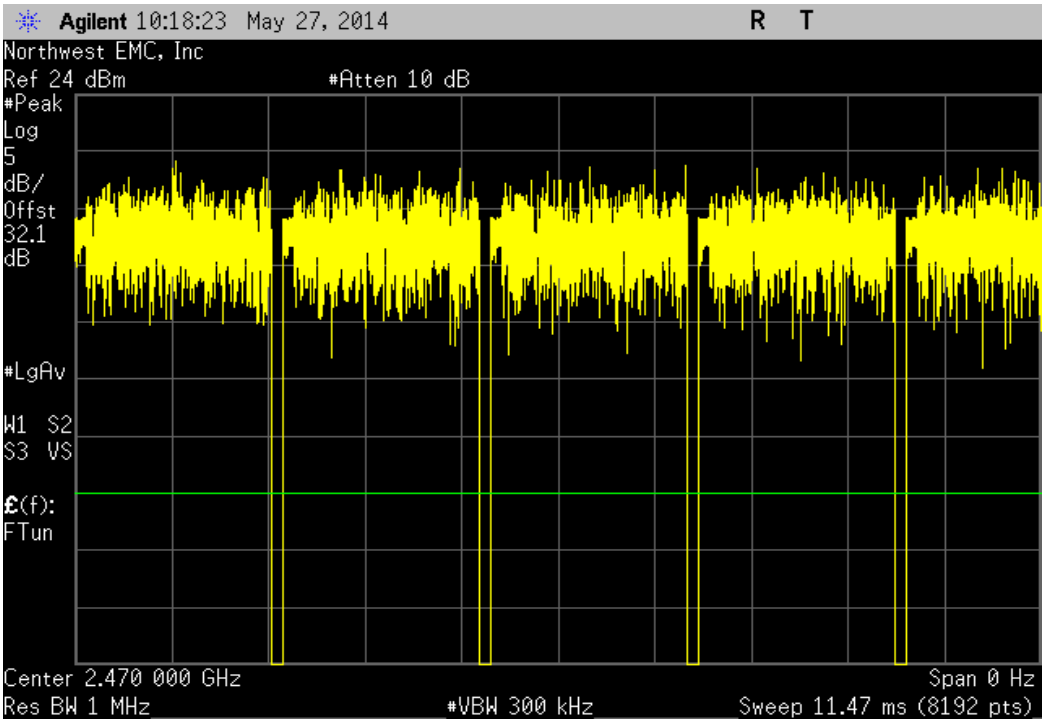


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4, High Channel 2470 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	2.336 mS	2.467 mS	1	94.7	N/A	N/A

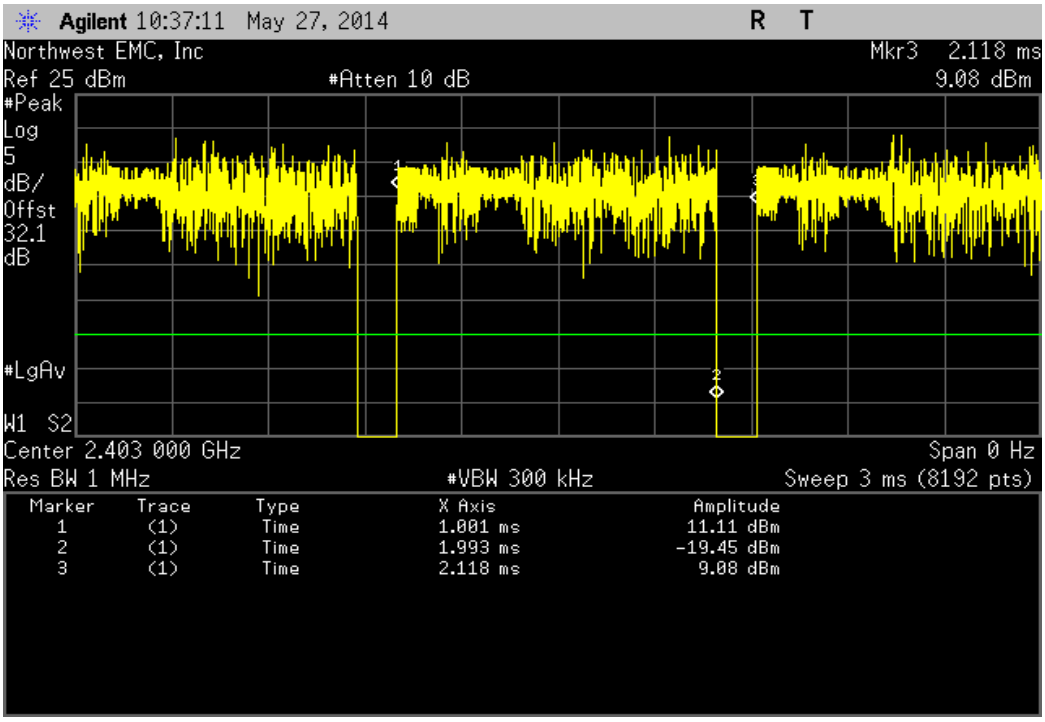


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4, High Channel 2470 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

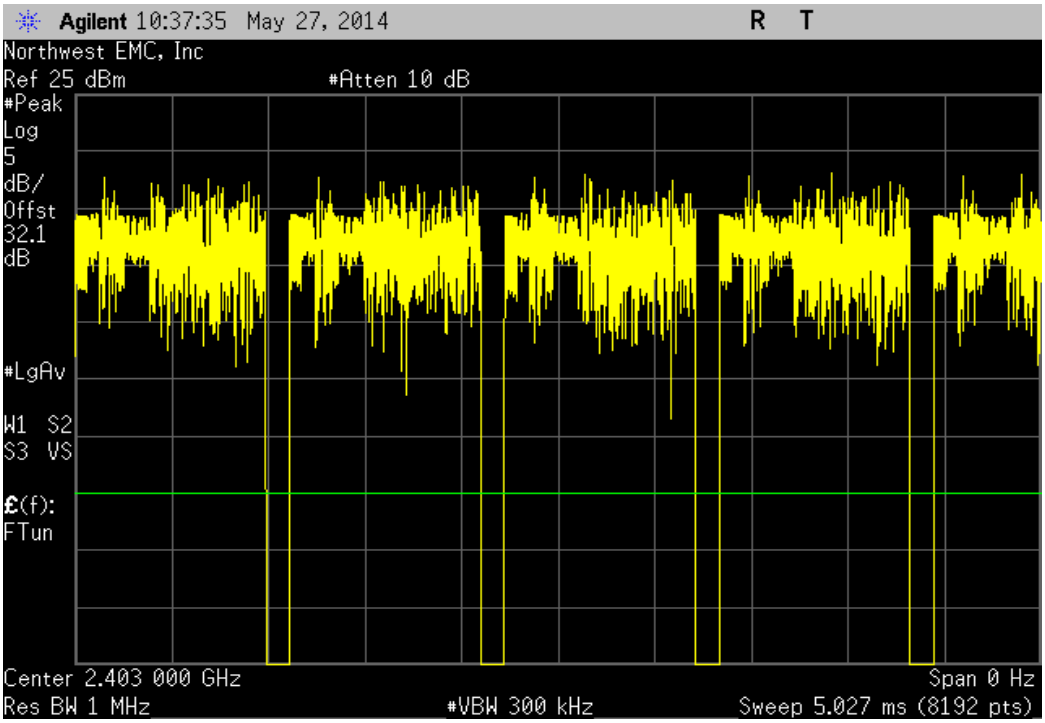


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 2403 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	992.2 uS	1.117 mS	1	88.8	N/A	N/A

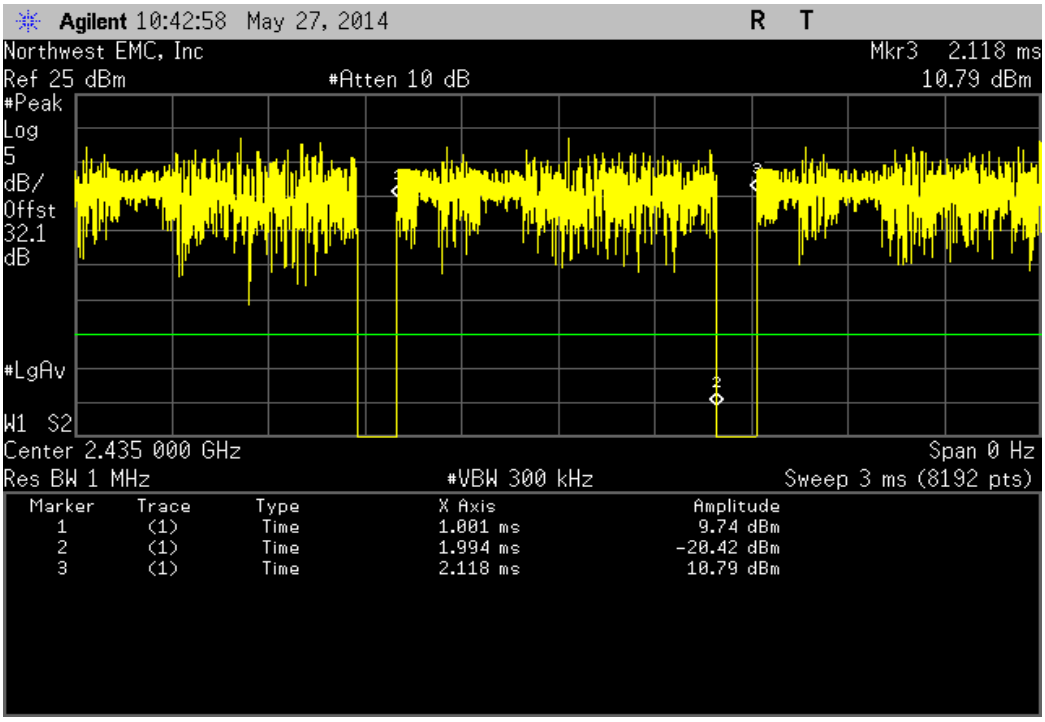


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 2403 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

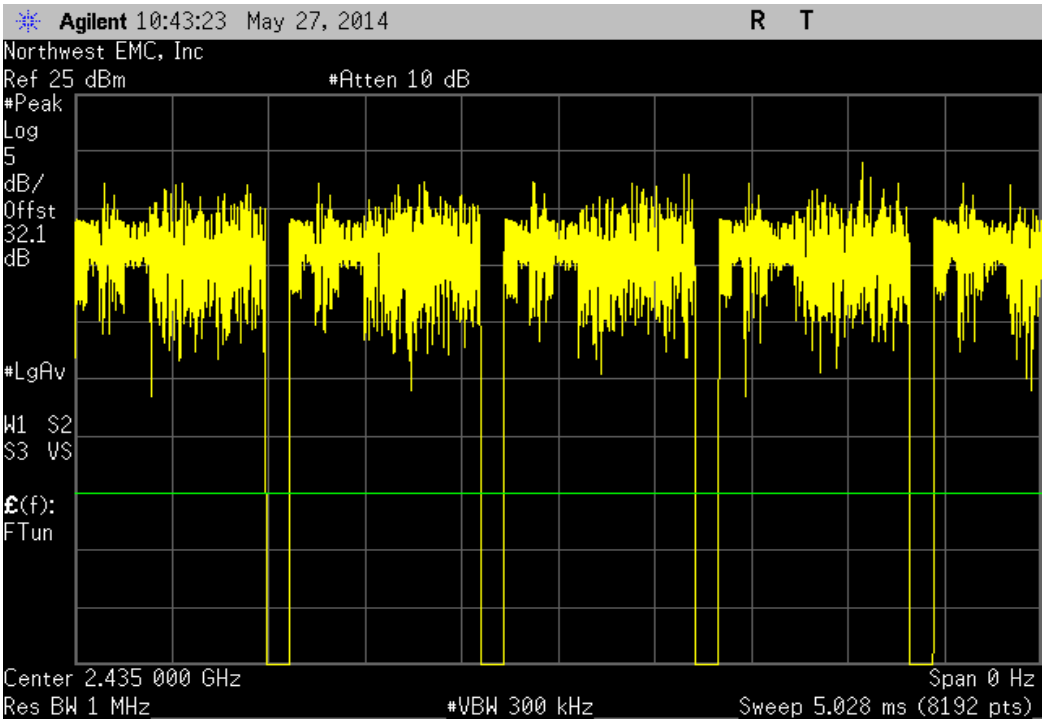


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Mid Channel 2435 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	992.5 uS	1.117 mS	1	88.8	N/A	N/A



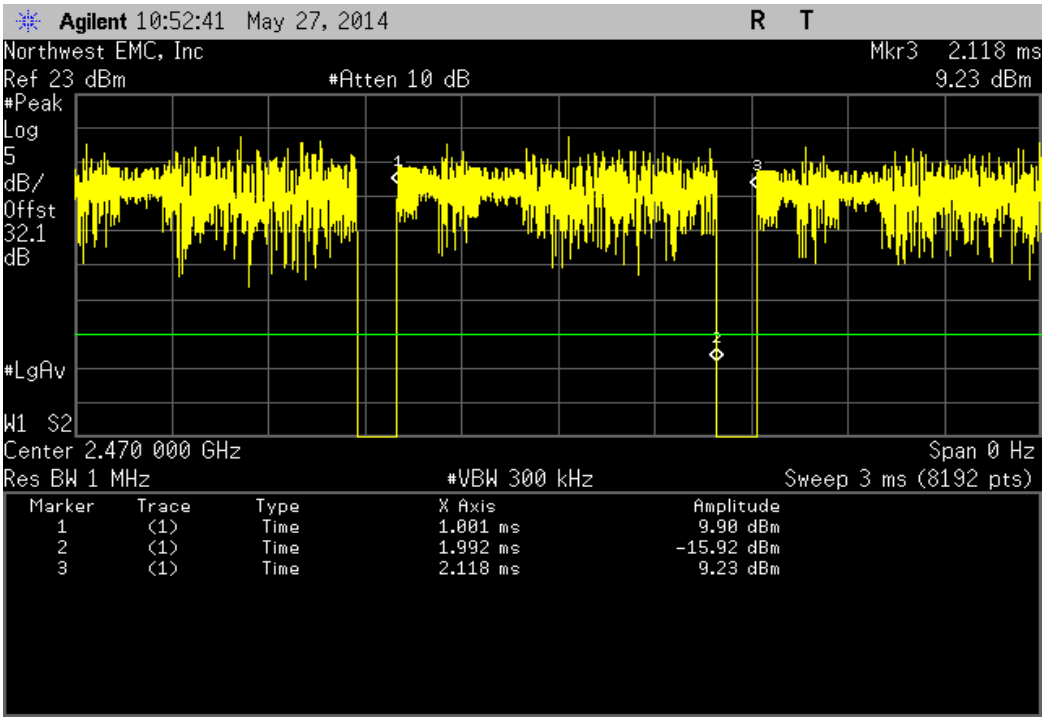
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Mid Channel 2435 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - SISO

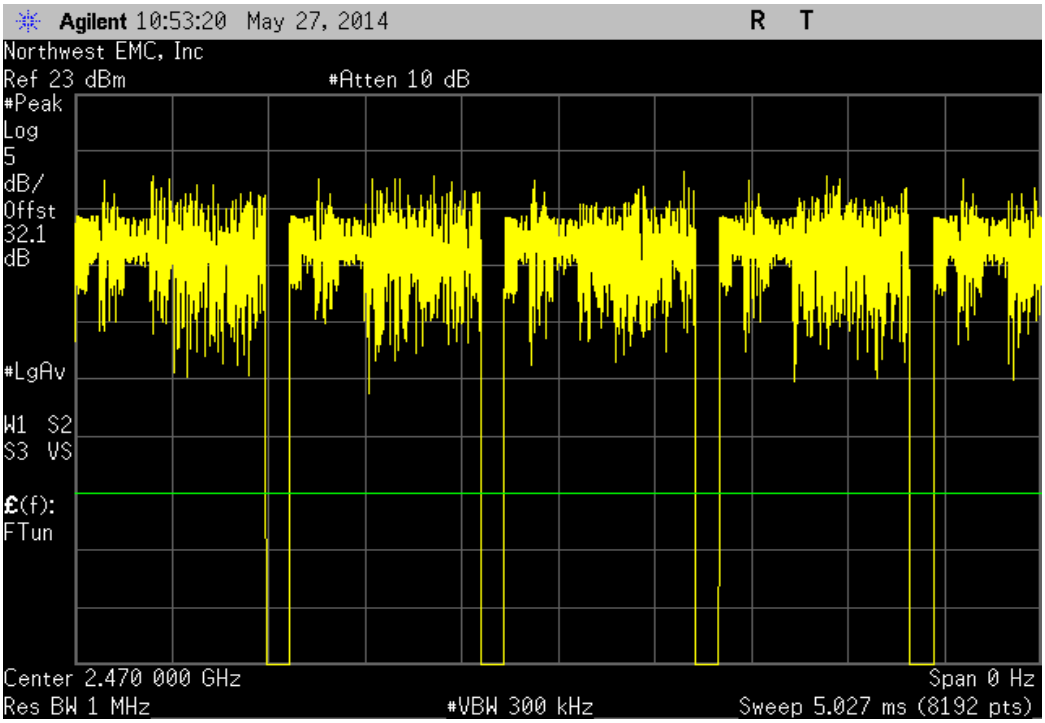
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, High Channel 2470 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	991.4 uS	1.117 mS	1	88.7	N/A	N/A



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, High Channel 2470 MHz

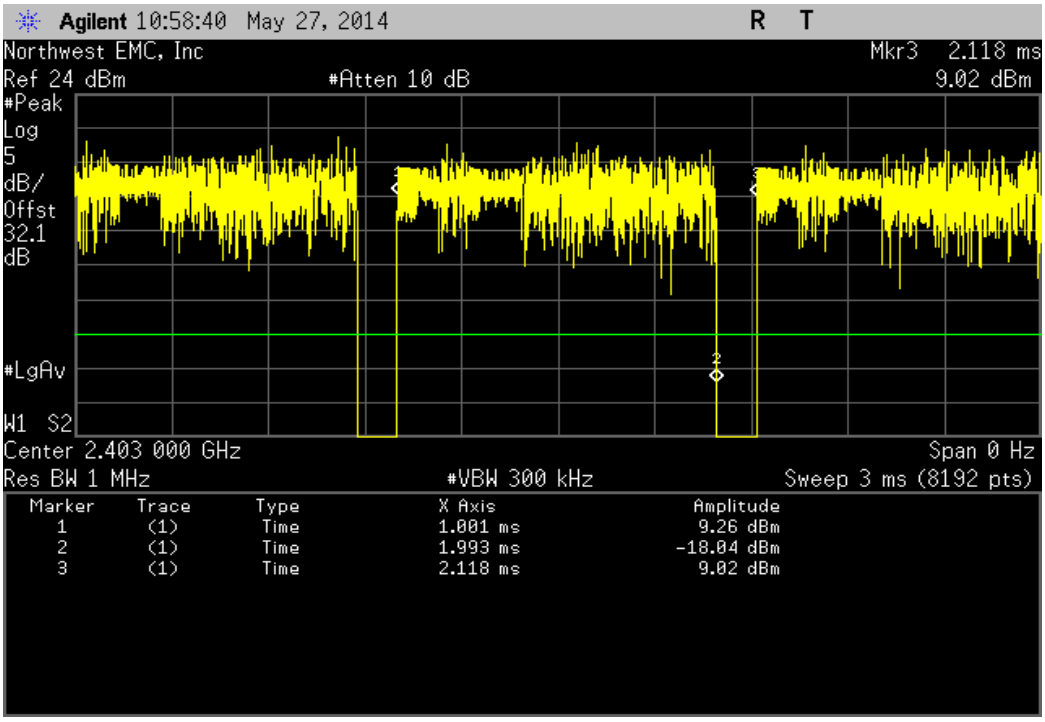
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - SISO

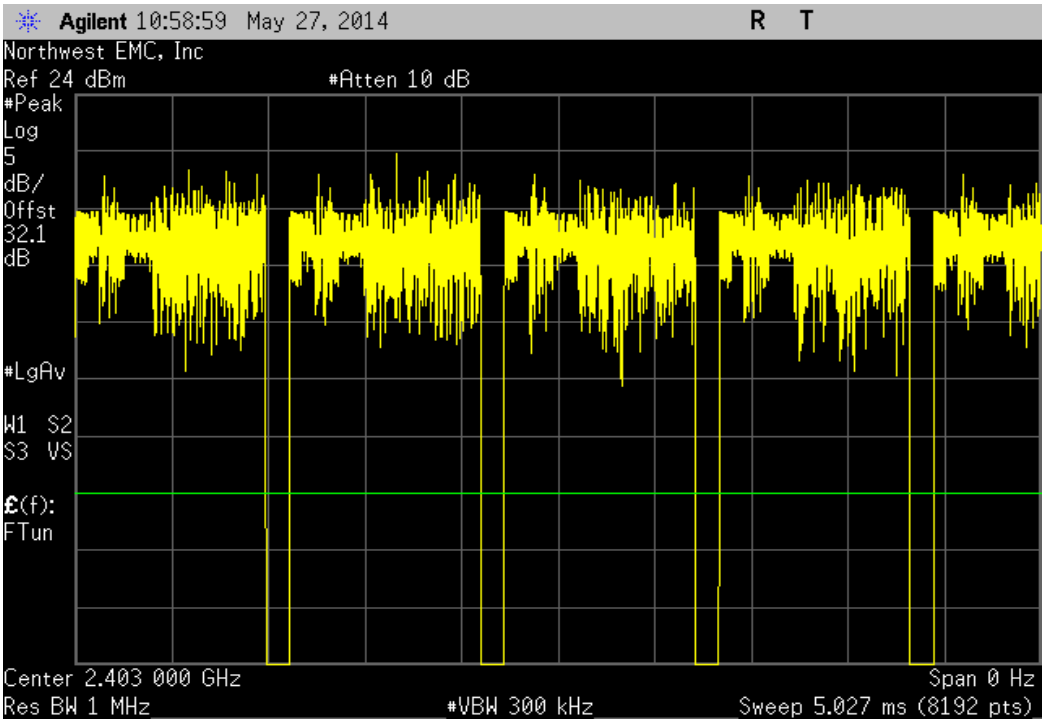
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6, Low Channel 2403 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	991.8 uS	1.117 mS	1	88.8	N/A	N/A



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6, Low Channel 2403 MHz

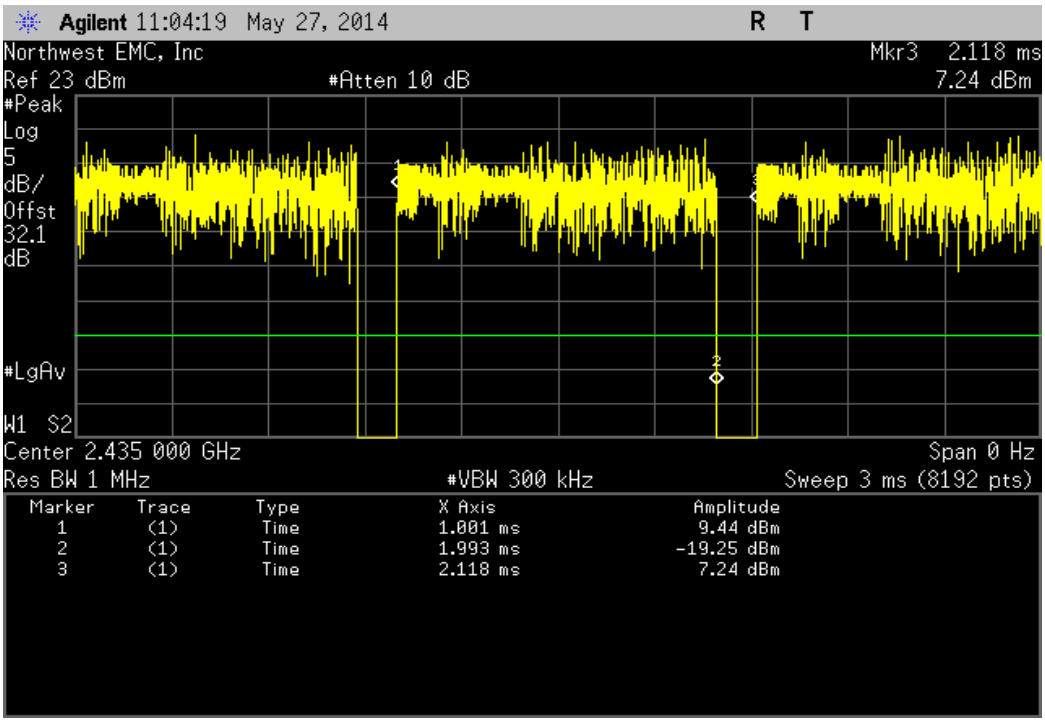
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - SISO

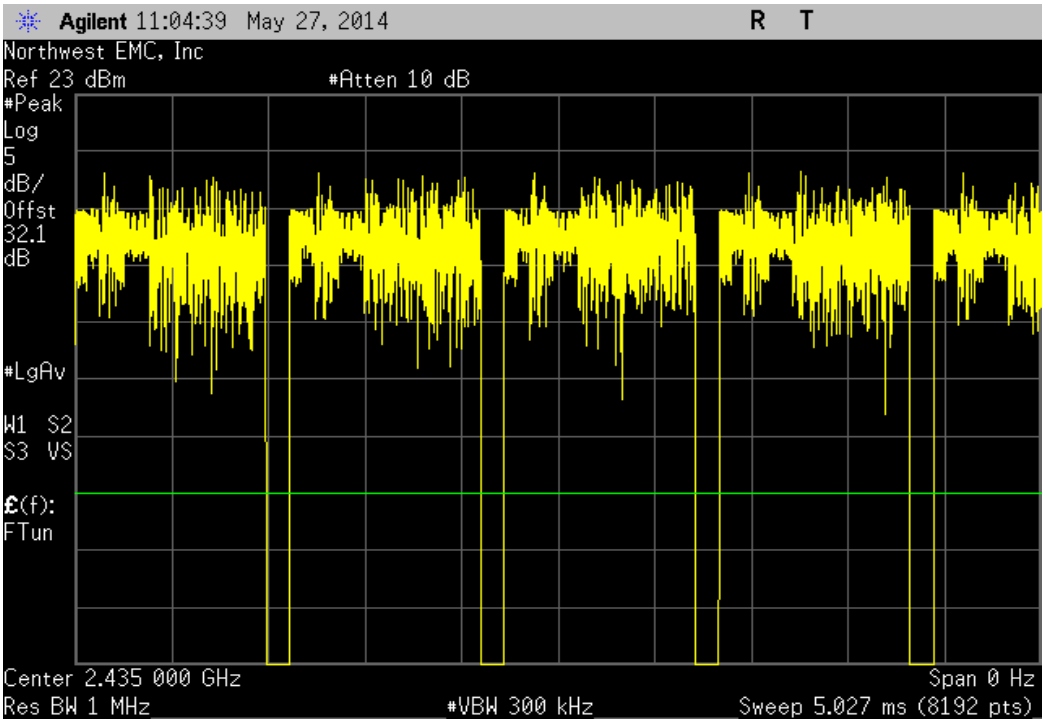
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6, Mid Channel 2435 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	991.8 uS	1.117 mS	1	88.8	N/A	N/A



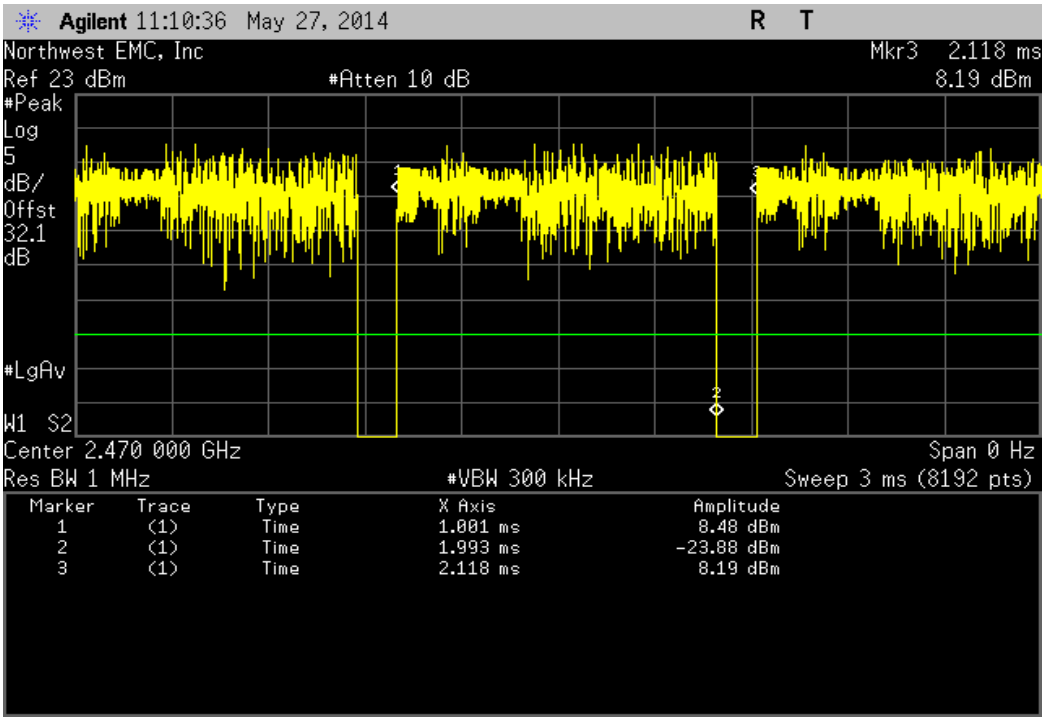
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6, Mid Channel 2435 MHz

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

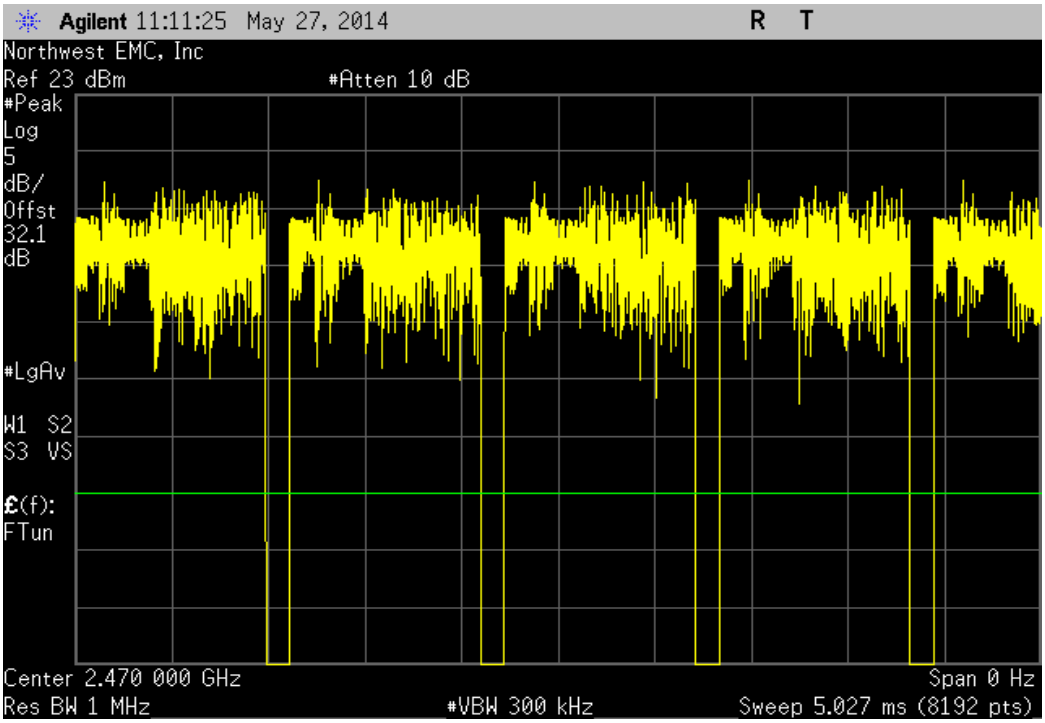


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6, High Channel 2470 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	992.2 uS	1.117 mS	1	88.8	N/A	N/A

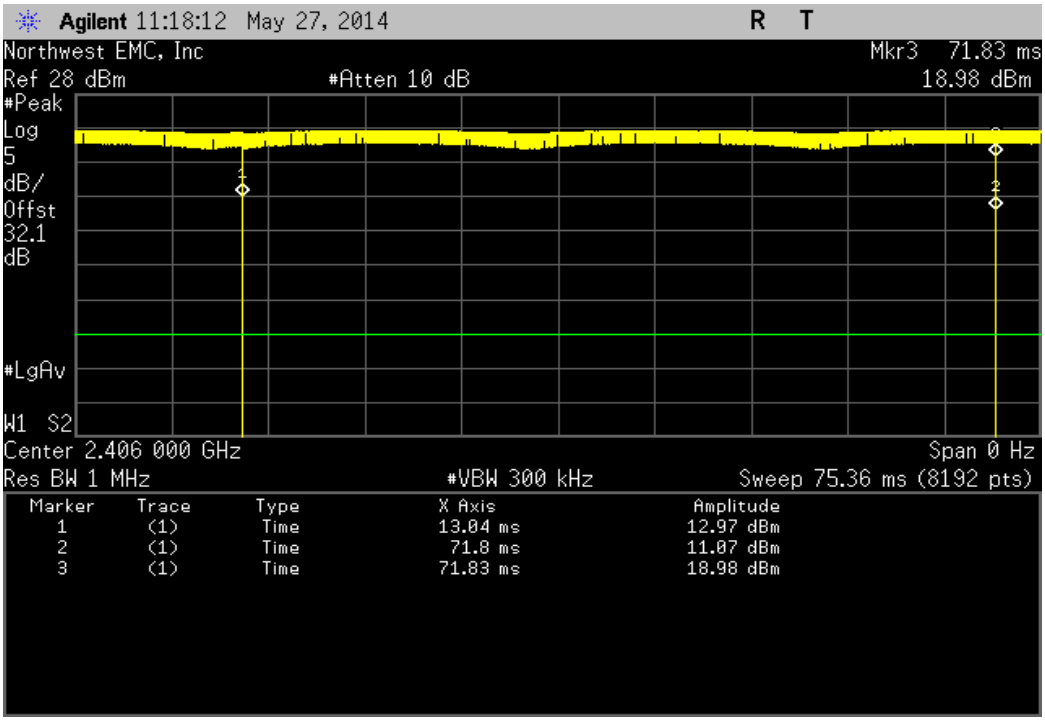


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6, High Channel 2470 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

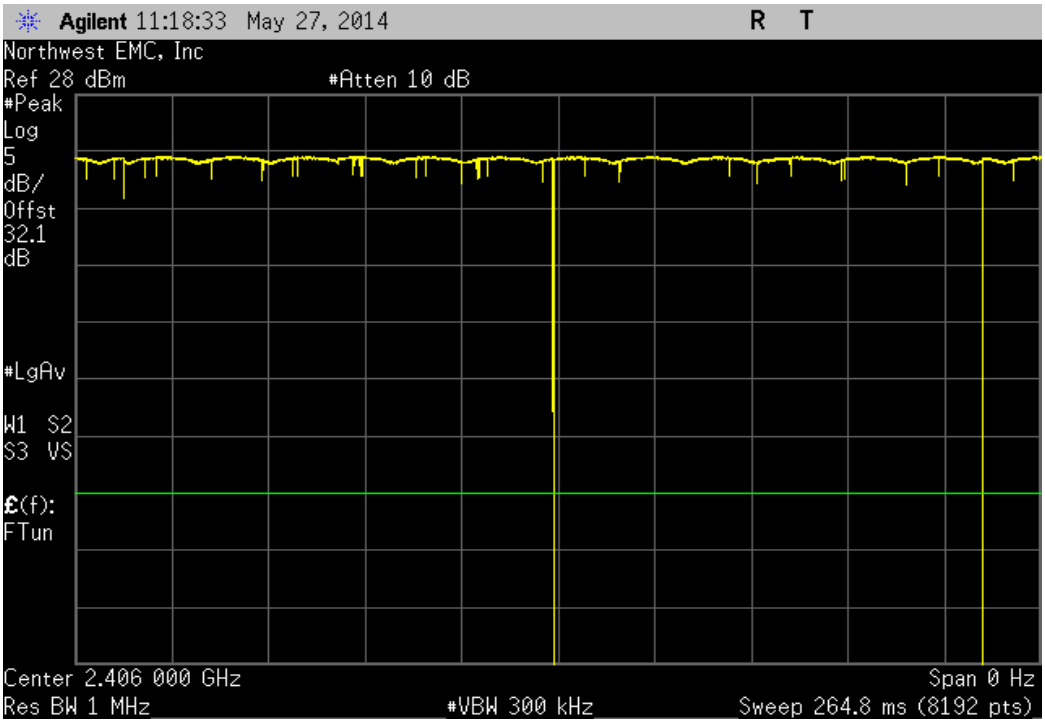


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, DBPSK, Low Channel 2406 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	58.76 mS	58.797 mS	1	99.9	N/A	N/A

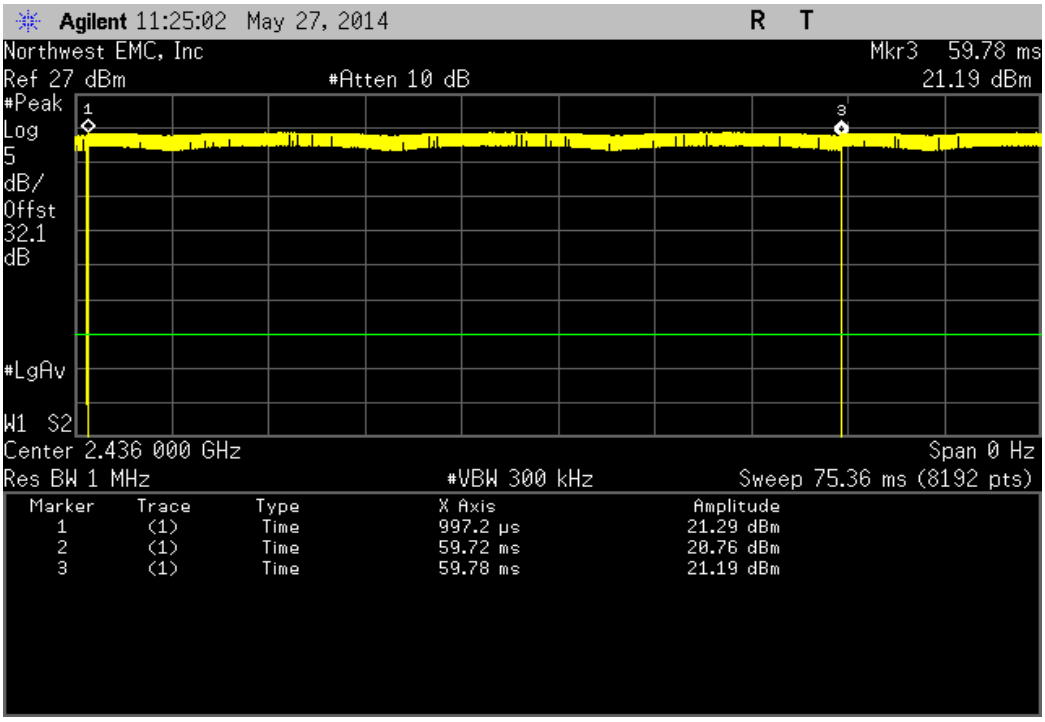


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, DBPSK, Low Channel 2406 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	3	N/A	N/A	N/A

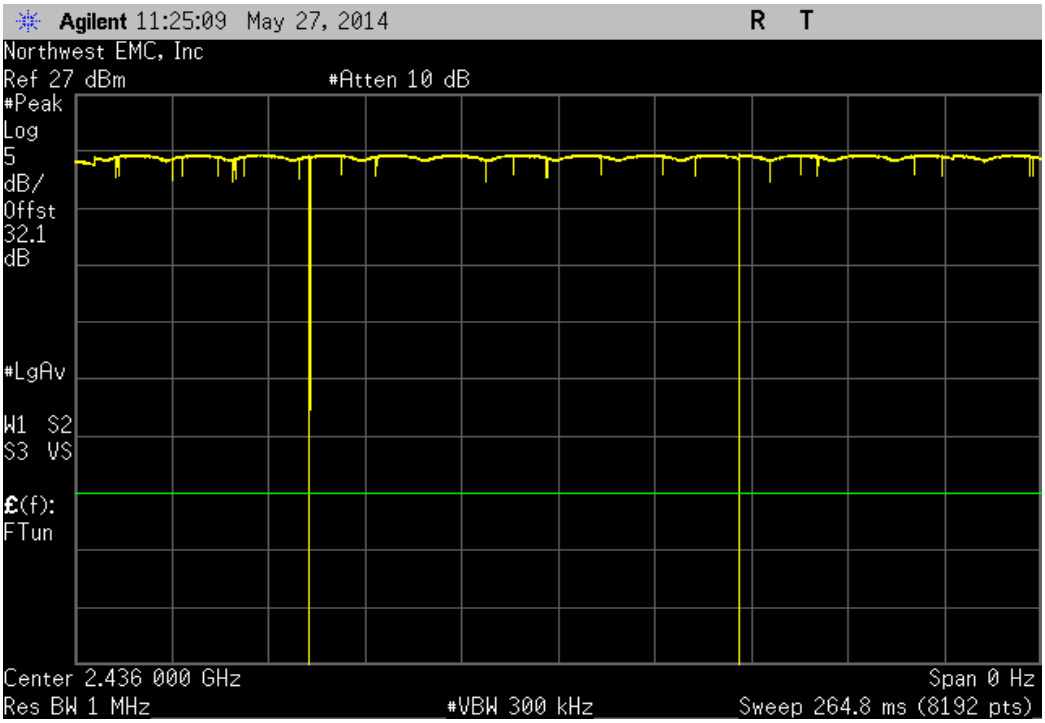


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, DBPSK, Mid Channel 2436 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	58.726 mS	58.782 mS	1	99.9	N/A	N/A

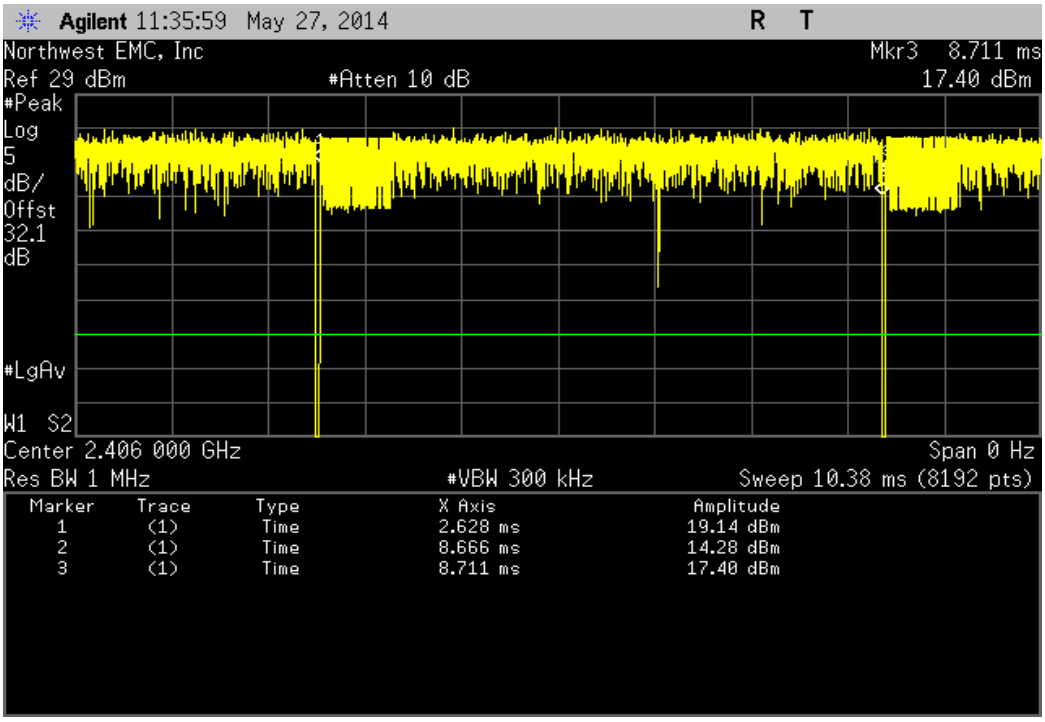


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, DBPSK, Mid Channel 2436 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	3	N/A	N/A	N/A

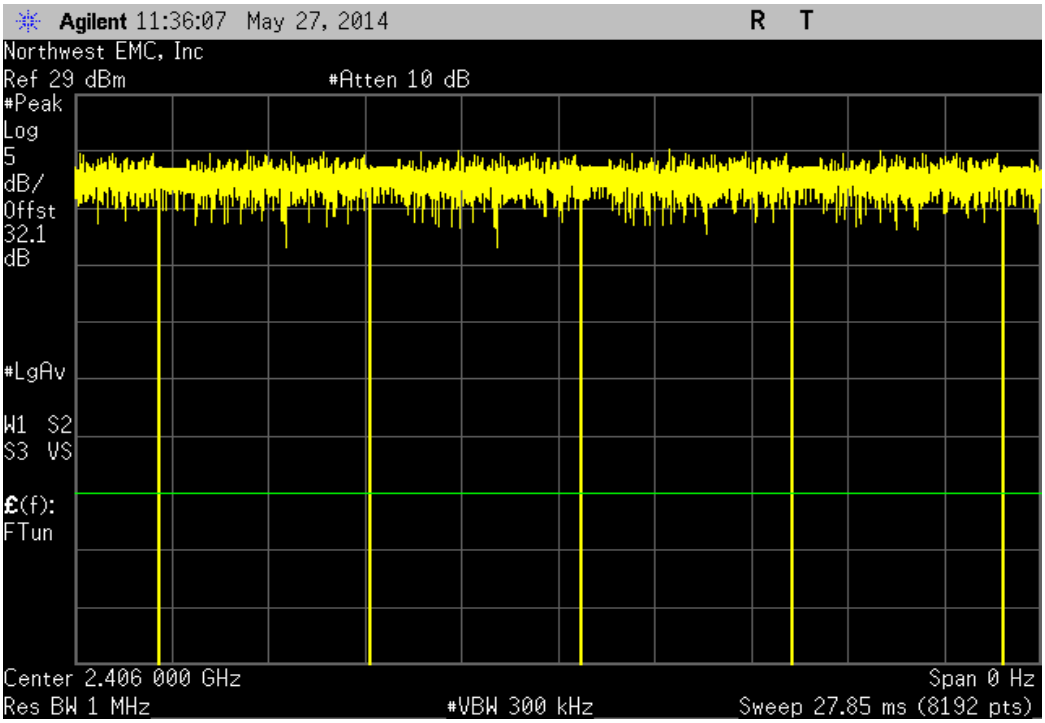


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, QPSK, Low Channel 2406 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	6.038 mS	6.083 mS	1	99.3	N/A	N/A

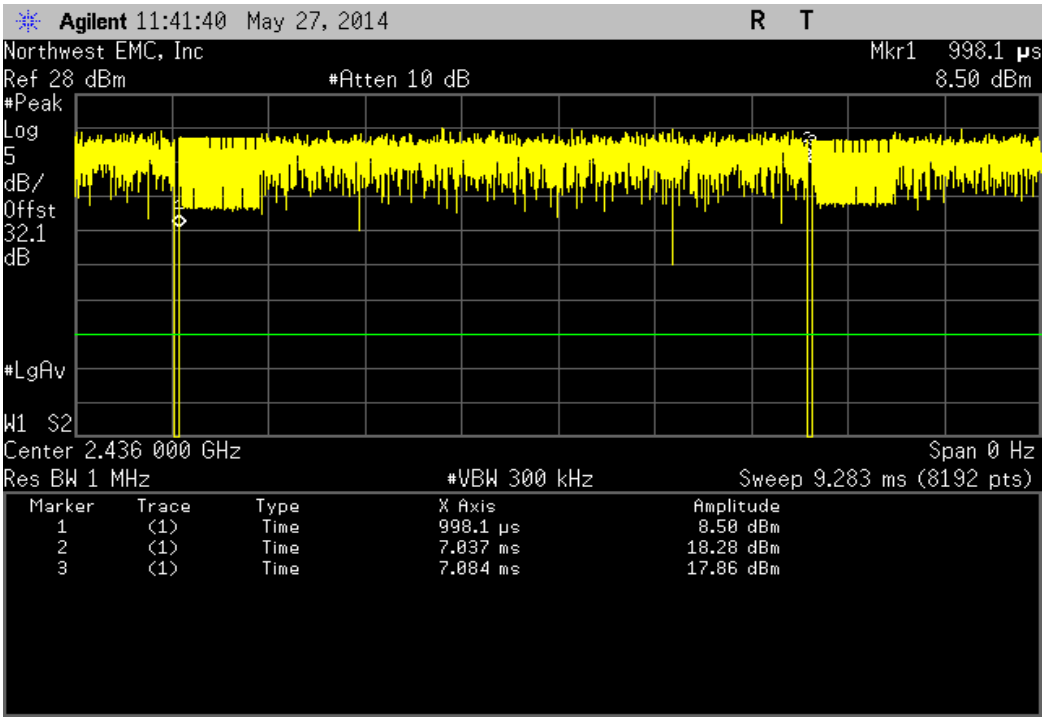


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, QPSK, Low Channel 2406 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	6	N/A	N/A	N/A

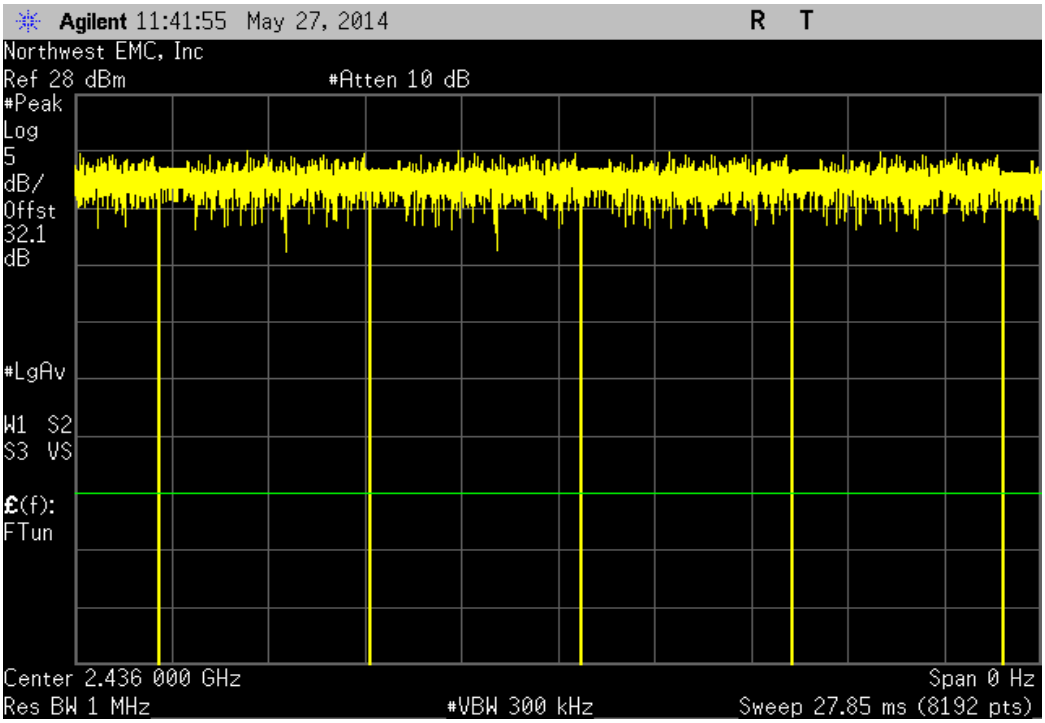


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, QPSK, Mid Channel 2436 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	6.039 mS	6.085 mS	1	99.2	N/A	N/A

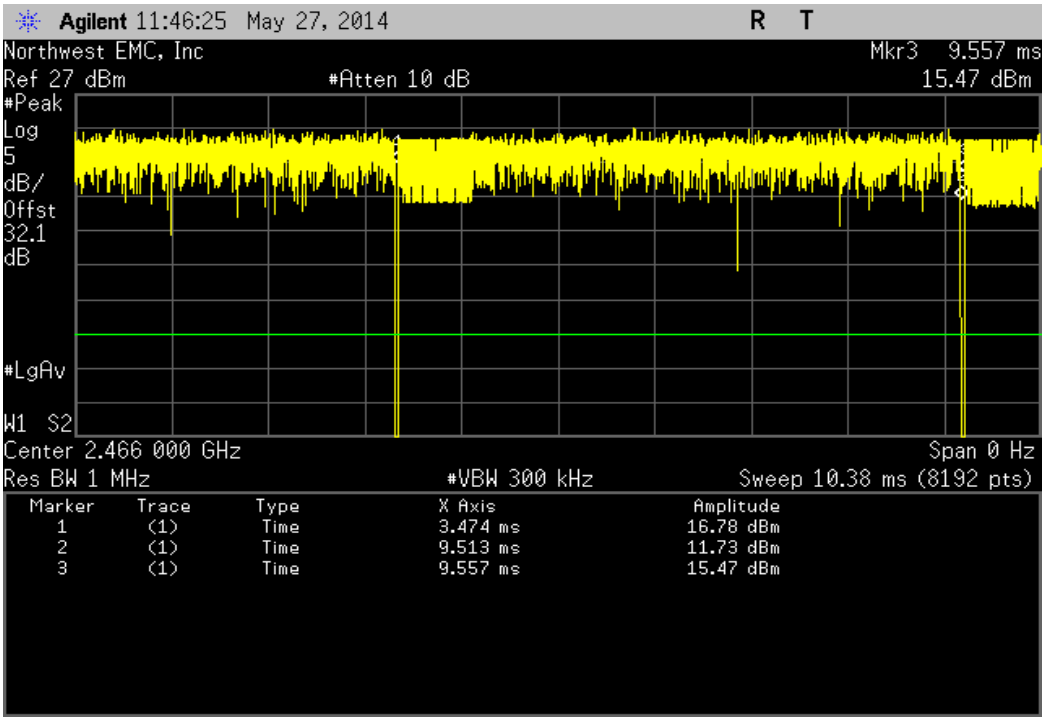


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, QPSK, Mid Channel 2436 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	6	N/A	N/A	N/A

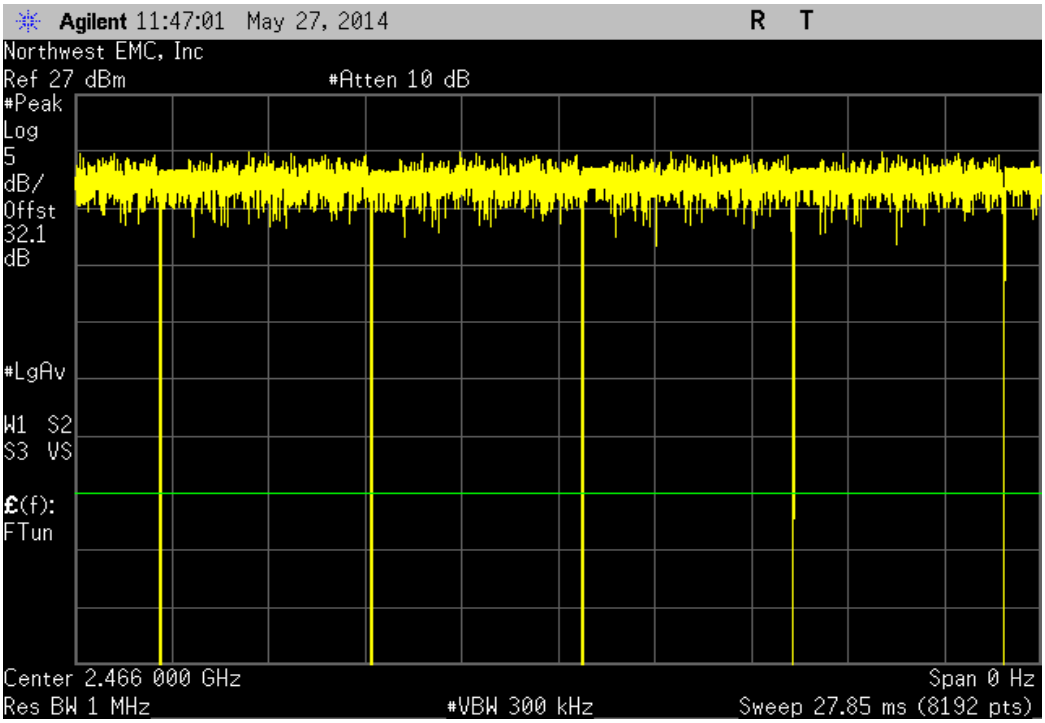


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, QPSK, High Channel 2466 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	6.038 mS	6.083 mS	1	99.3	N/A	N/A

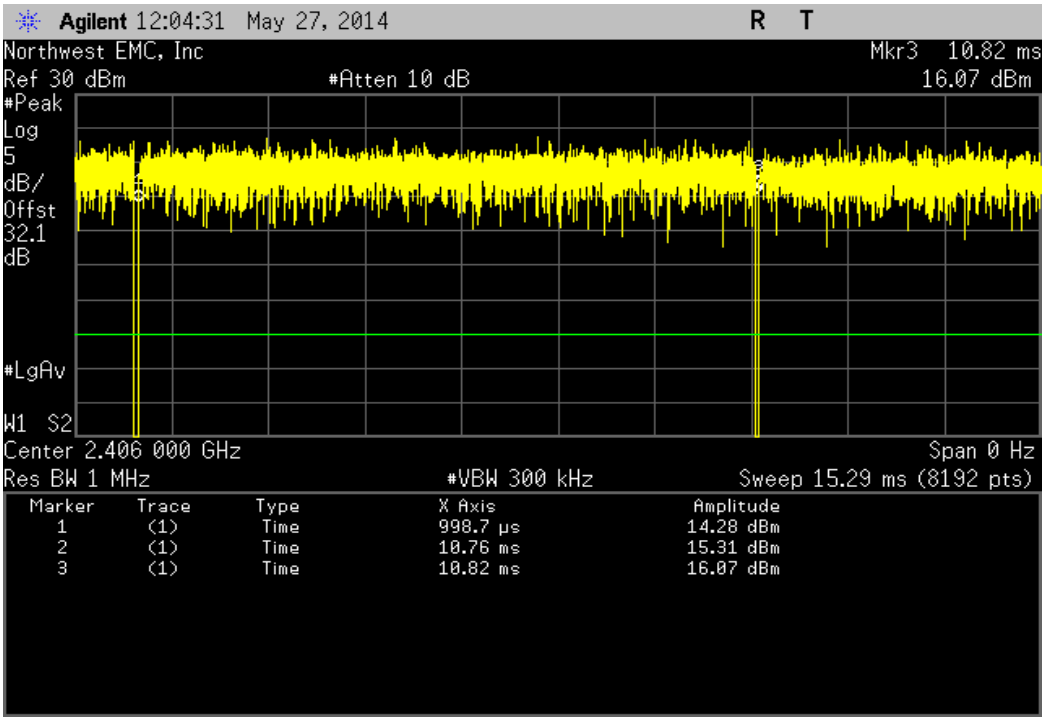


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, QPSK, High Channel 2466 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	6	N/A	N/A	N/A

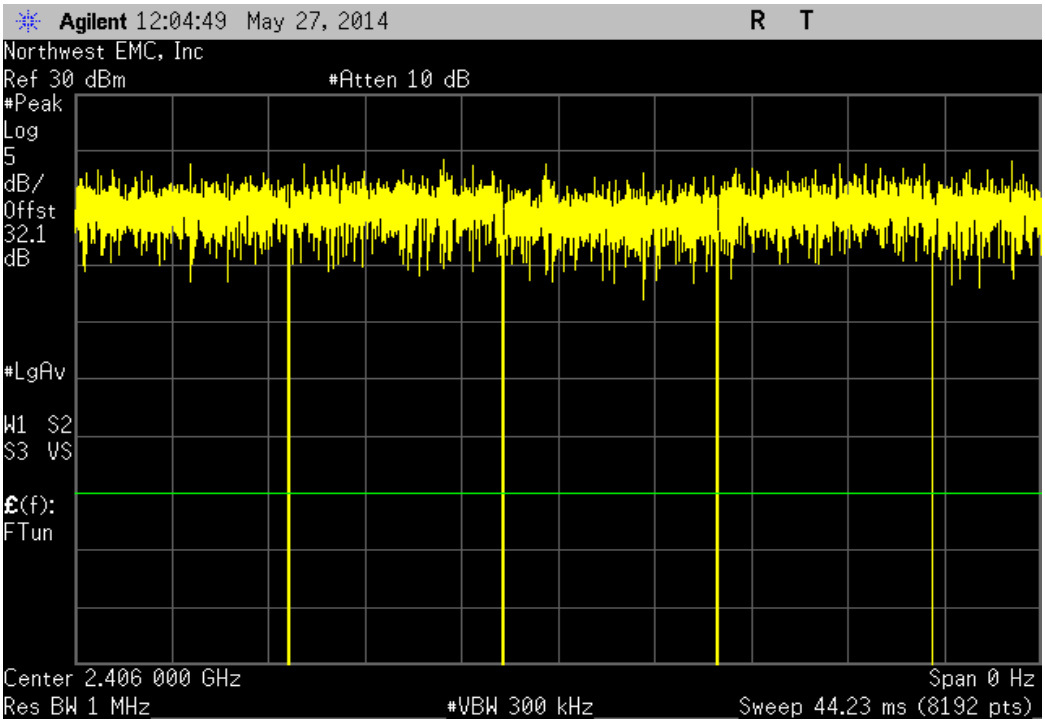


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 2406 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	9.759 mS	9.824 mS	1	99.3	N/A	N/A

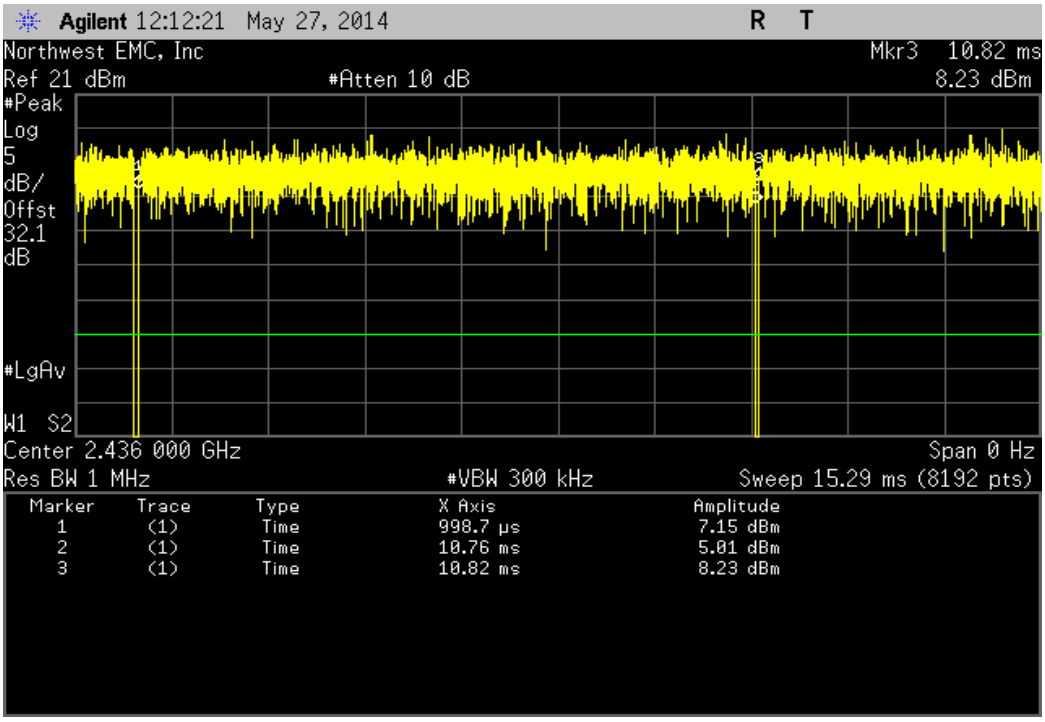


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 2406 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

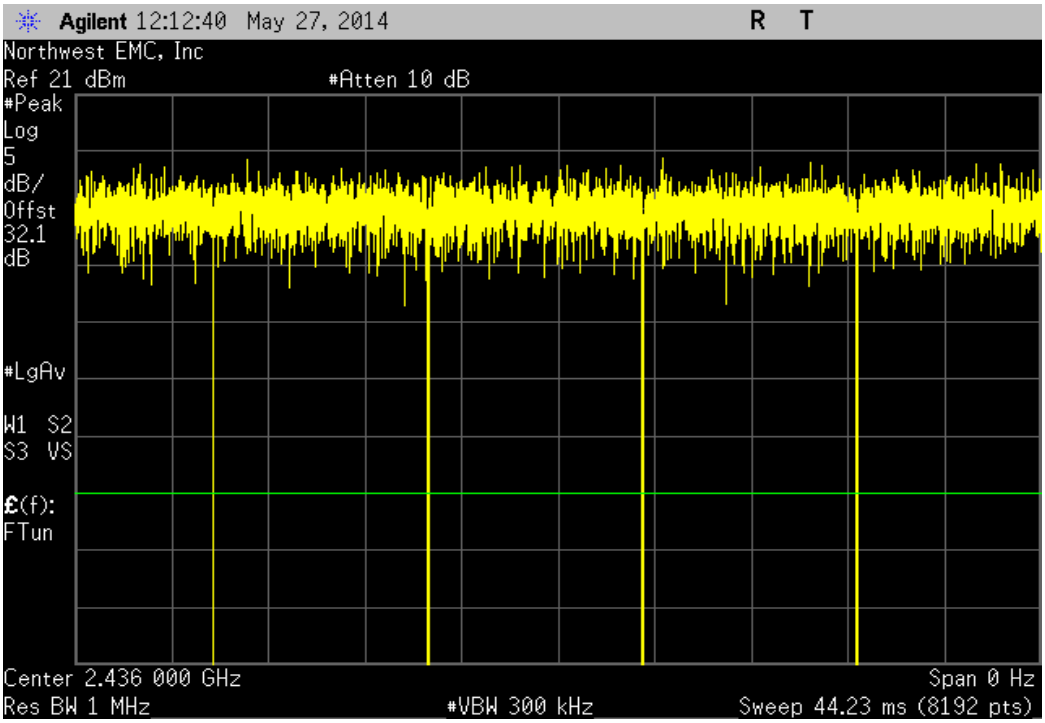


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Mid Channel 2436 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	9.759 mS	9.824 mS	1	99.3	N/A	N/A

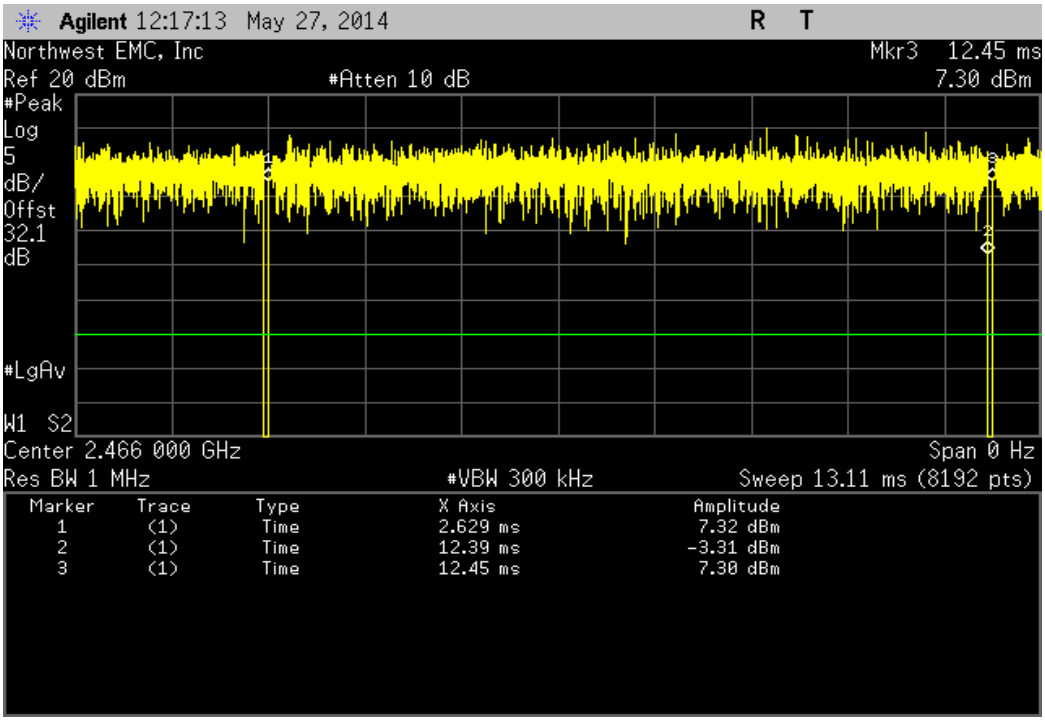


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Mid Channel 2436 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

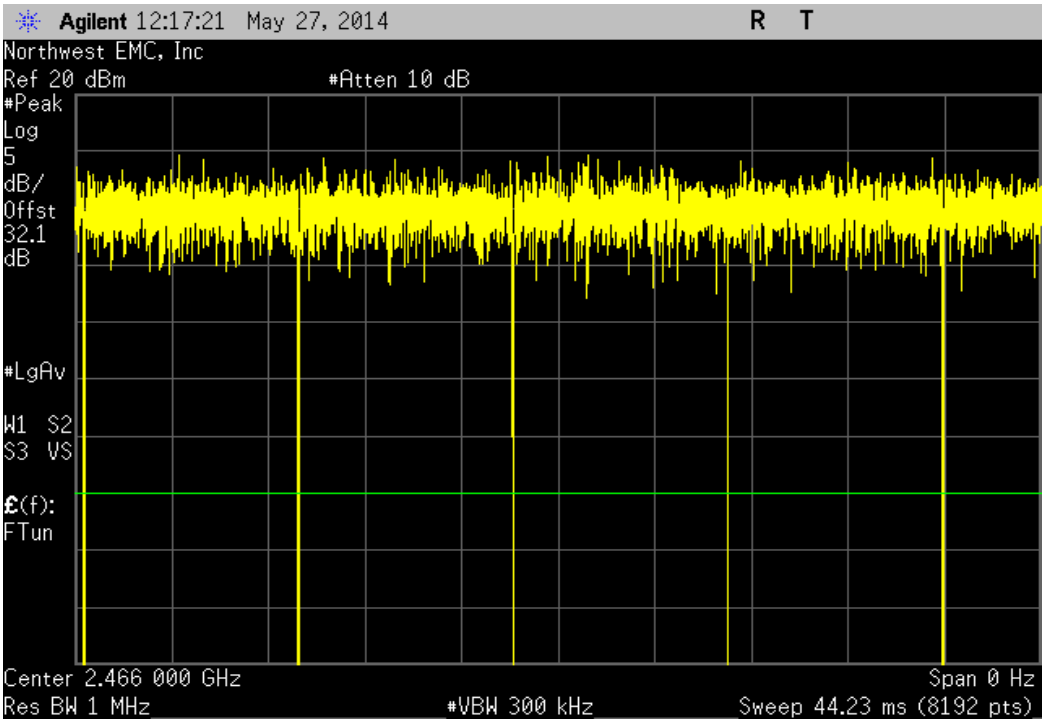


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, High Channel 2466 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	9.758 mS	9.824 mS	1	99.3	N/A	N/A

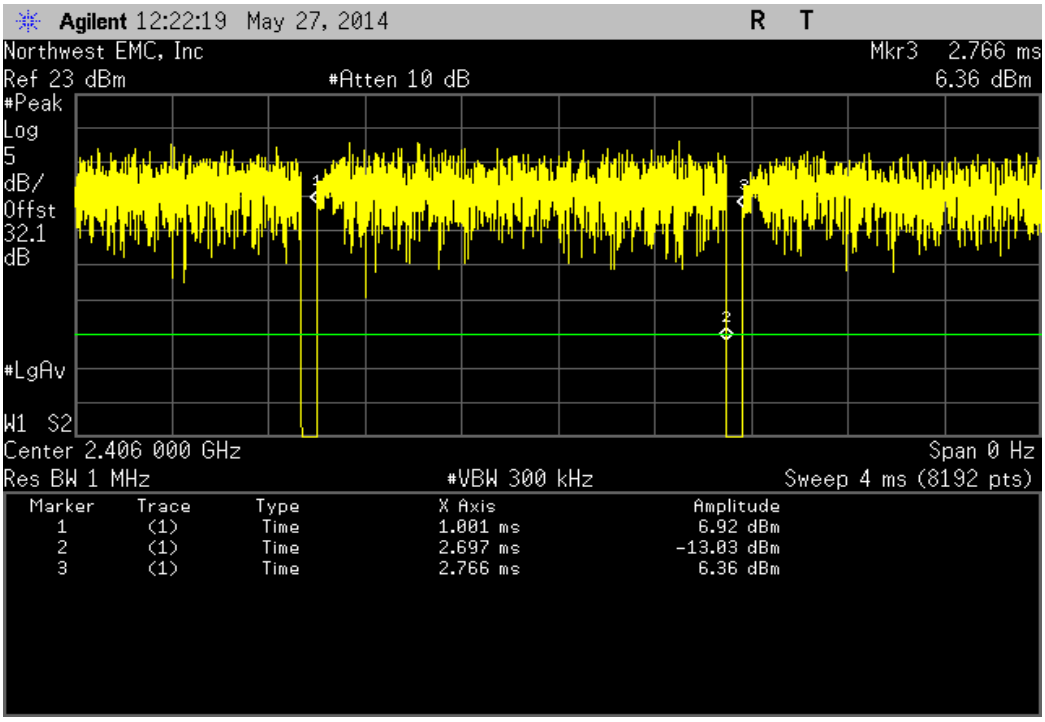


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, High Channel 2466 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	6	N/A	N/A	N/A

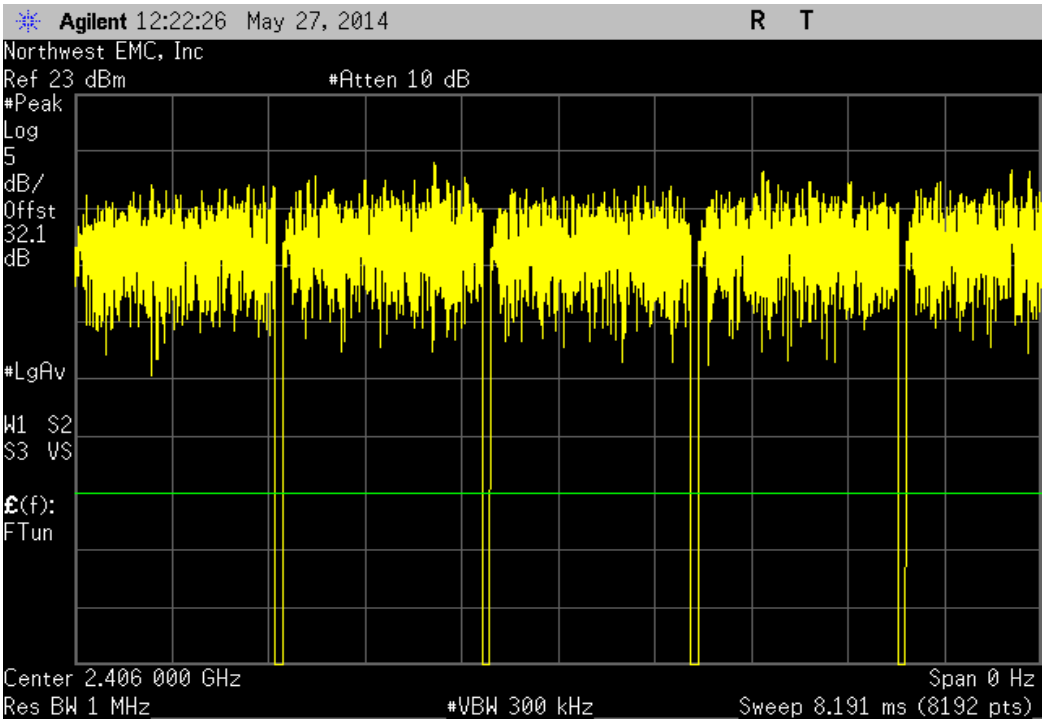


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4, Low Channel 2406 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	1.696 mS	1.765 mS	1	96.1	N/A	N/A



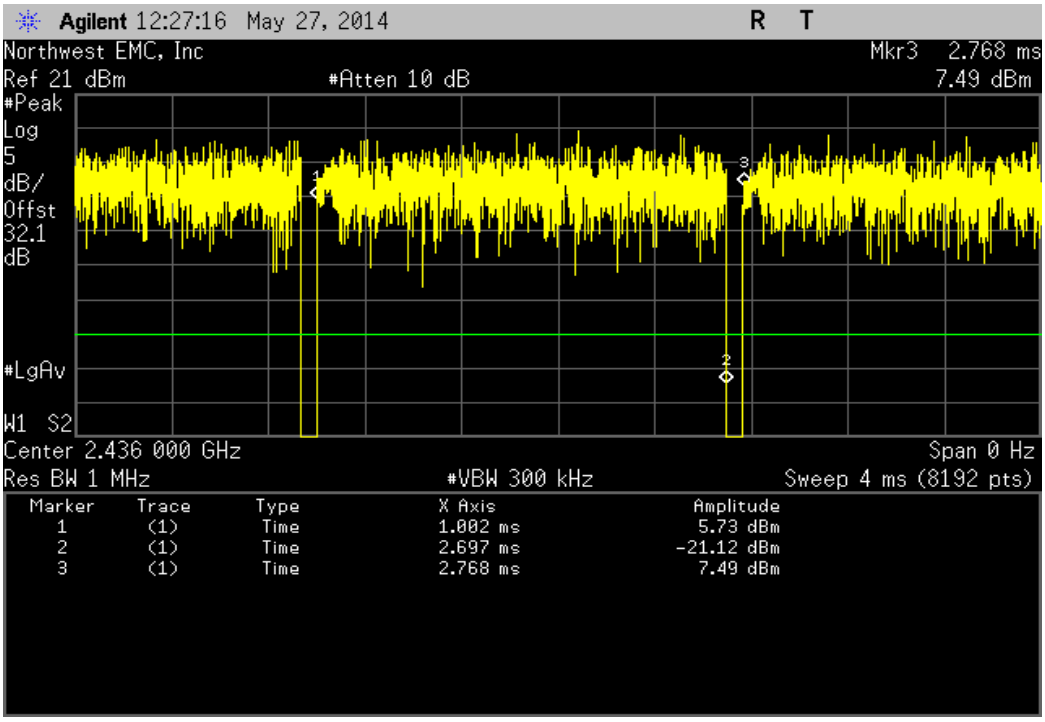
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4, Low Channel 2406 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - SISO

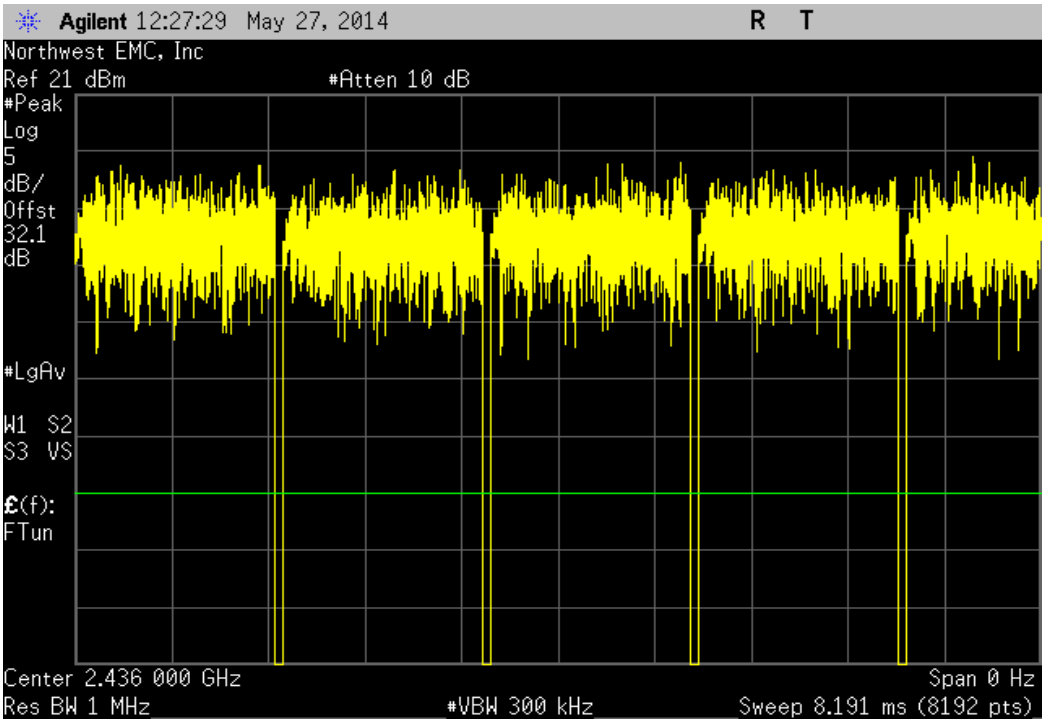
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4, Mid Channel 2436 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	1.695 mS	1.766 mS	1	96	N/A	N/A



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4, Mid Channel 2436 MHz

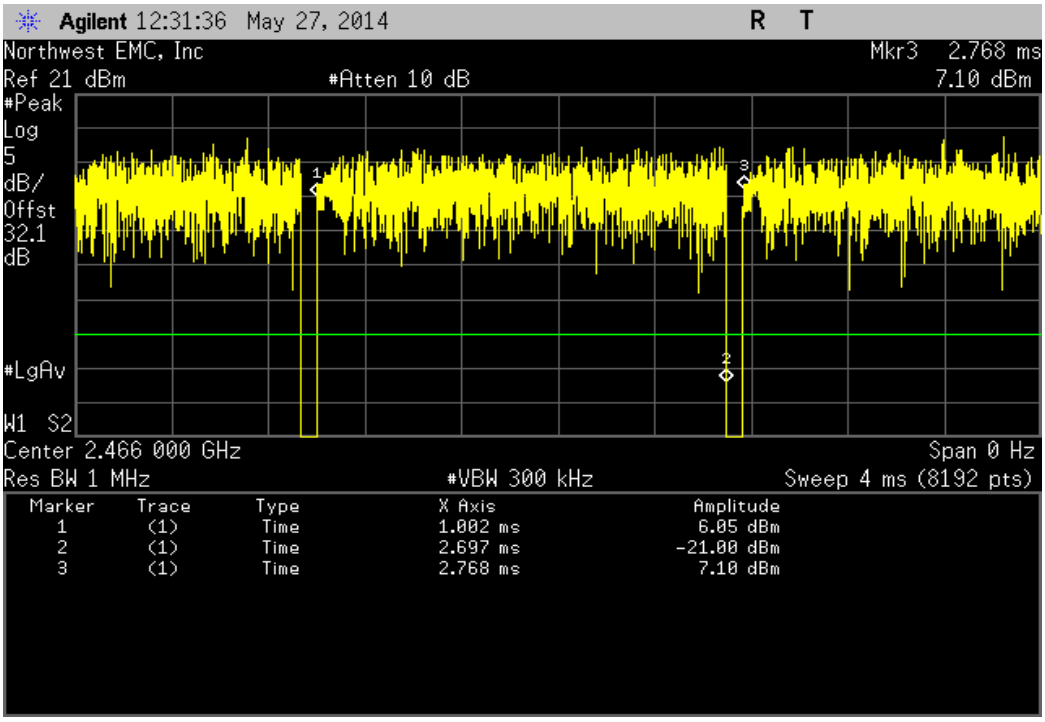
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - SISO

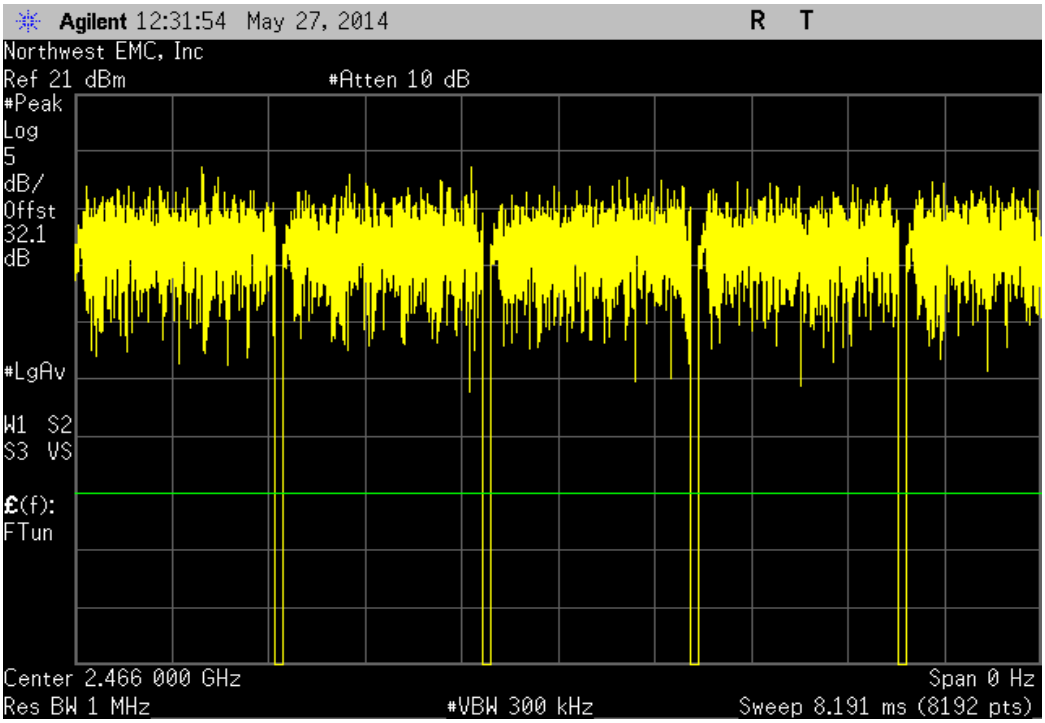
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4, High Channel 2466 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	1.695 mS	1.766 mS	1	96	N/A	N/A



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4, High Channel 2466 MHz

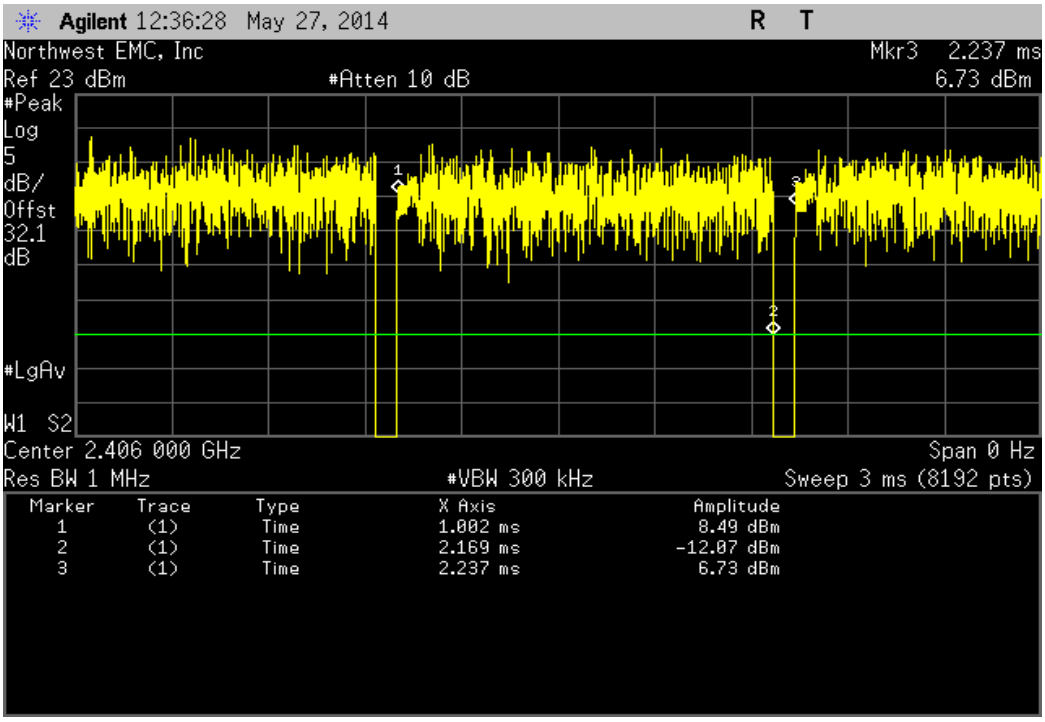
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4, Low Channel 2406 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	1.167 mS	1.235 mS	1	94.5	N/A	N/A



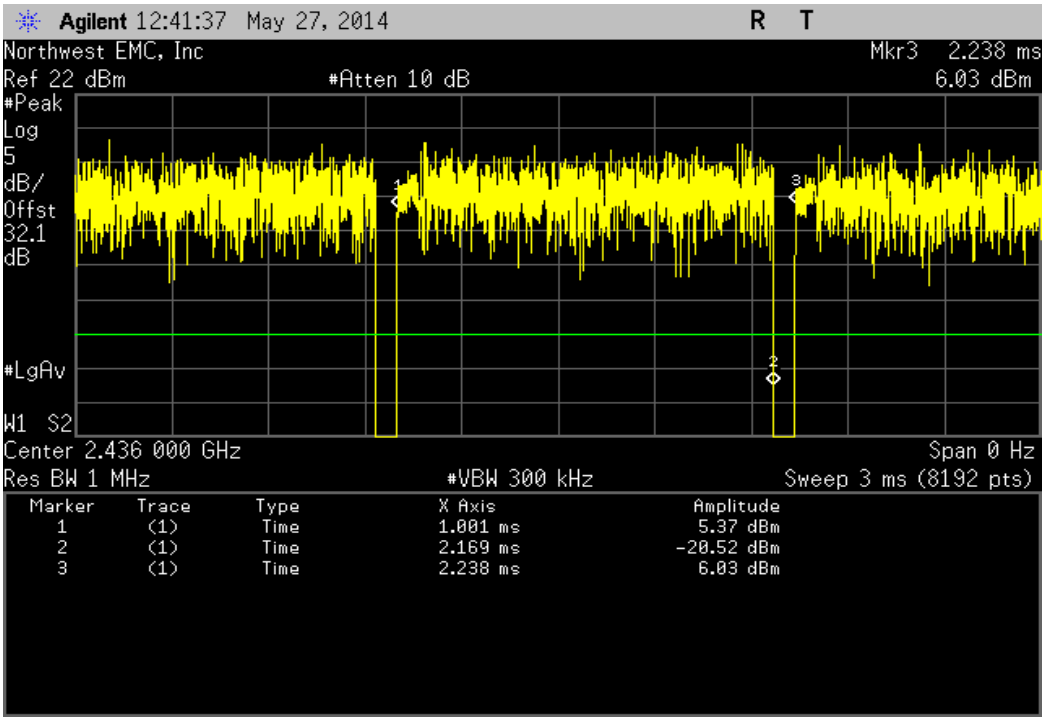
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4, Low Channel 2406 MHz

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

DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4, Mid Channel 2436 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	1.168 mS	1.237 mS	1	94.4	N/A	N/A



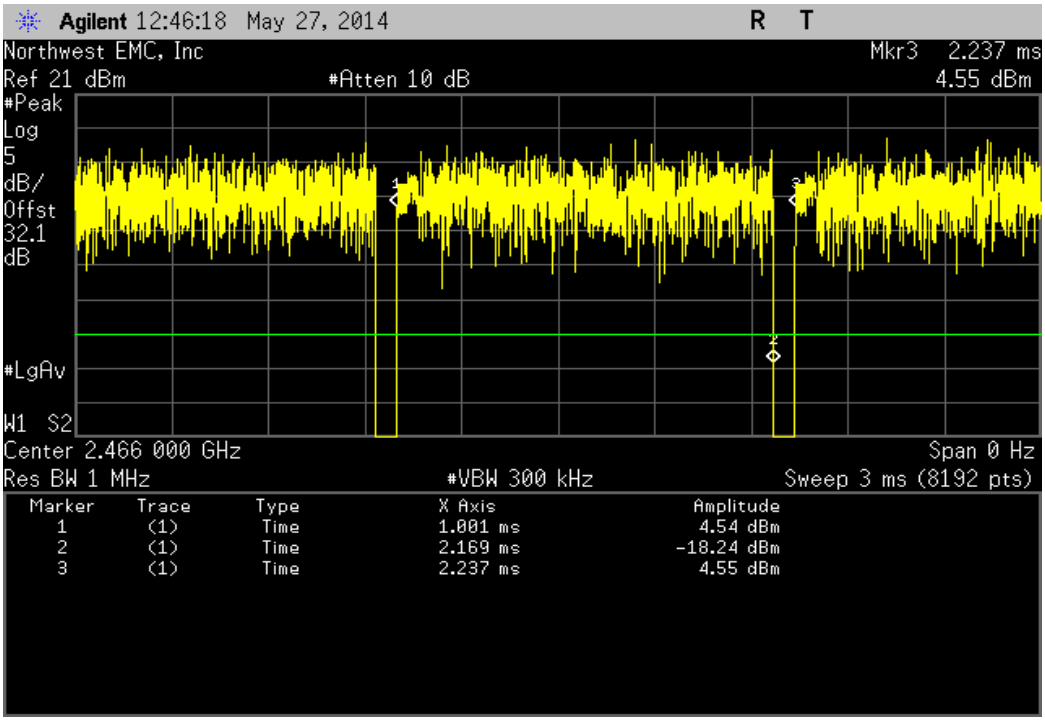
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4, Mid Channel 2436 MHz

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

DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4, High Channel 2466 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	1.168 mS	1.237 mS	1	94.5	N/A	N/A

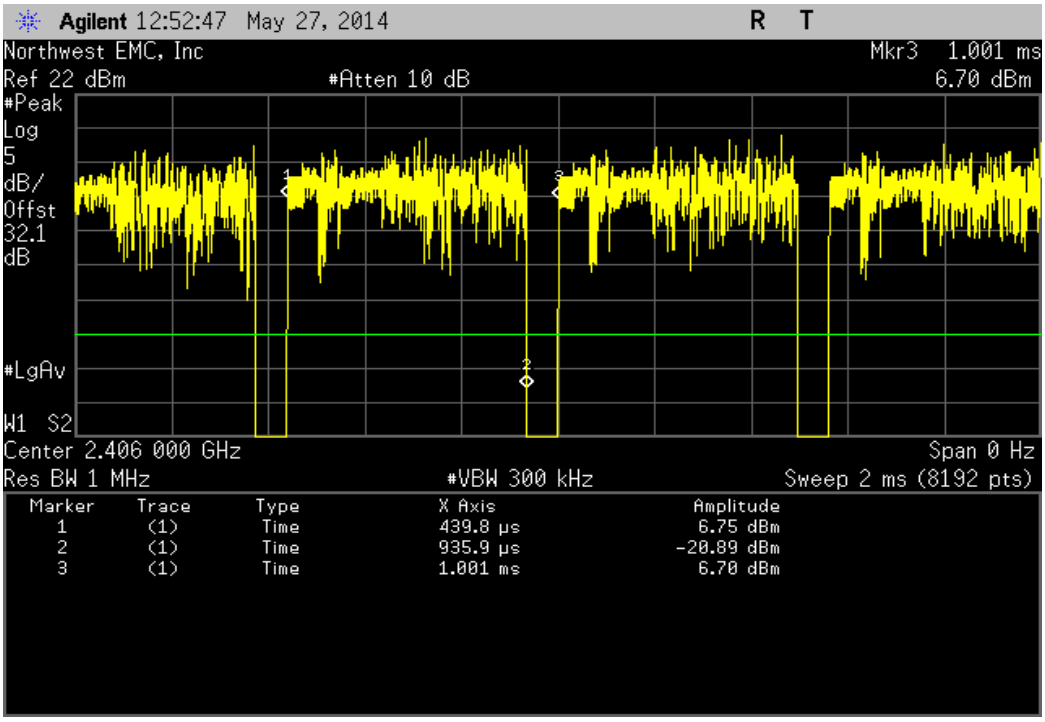


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4, High Channel 2466 MHz

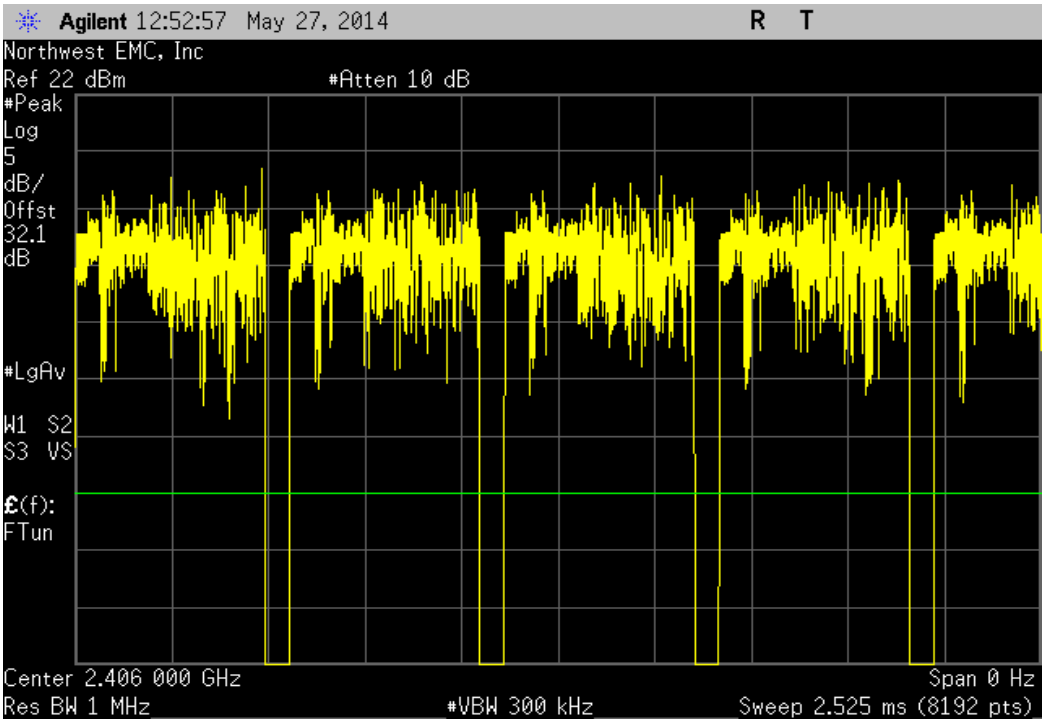
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 2406 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	496.1 uS	561.1 uS	1	88.4	N/A	N/A

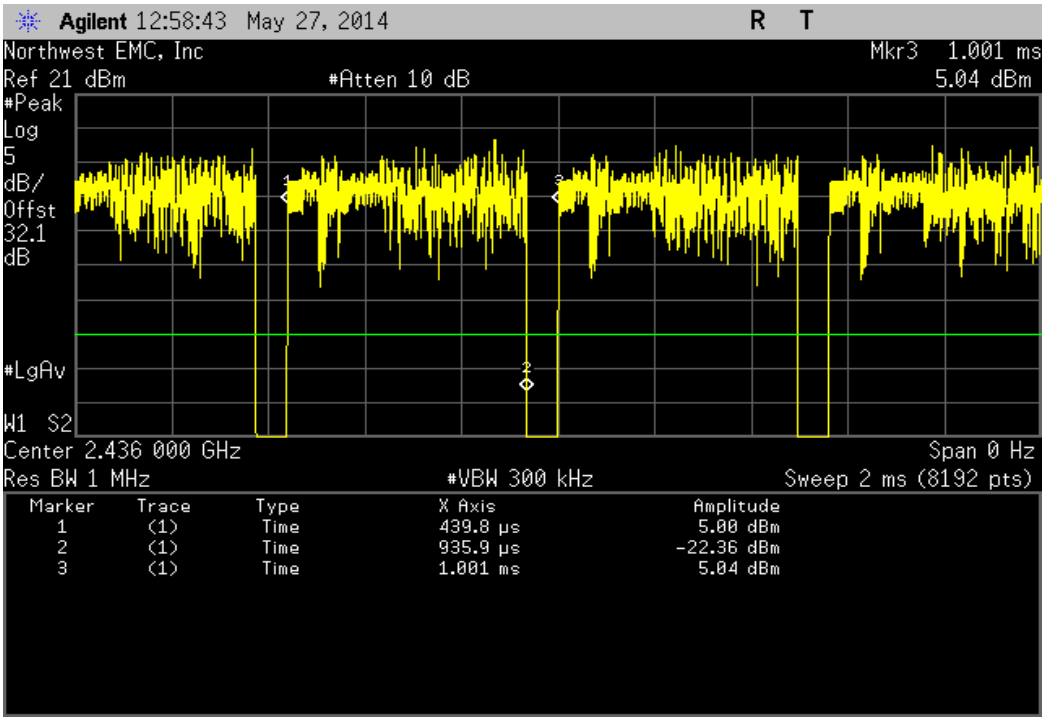


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 2406 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

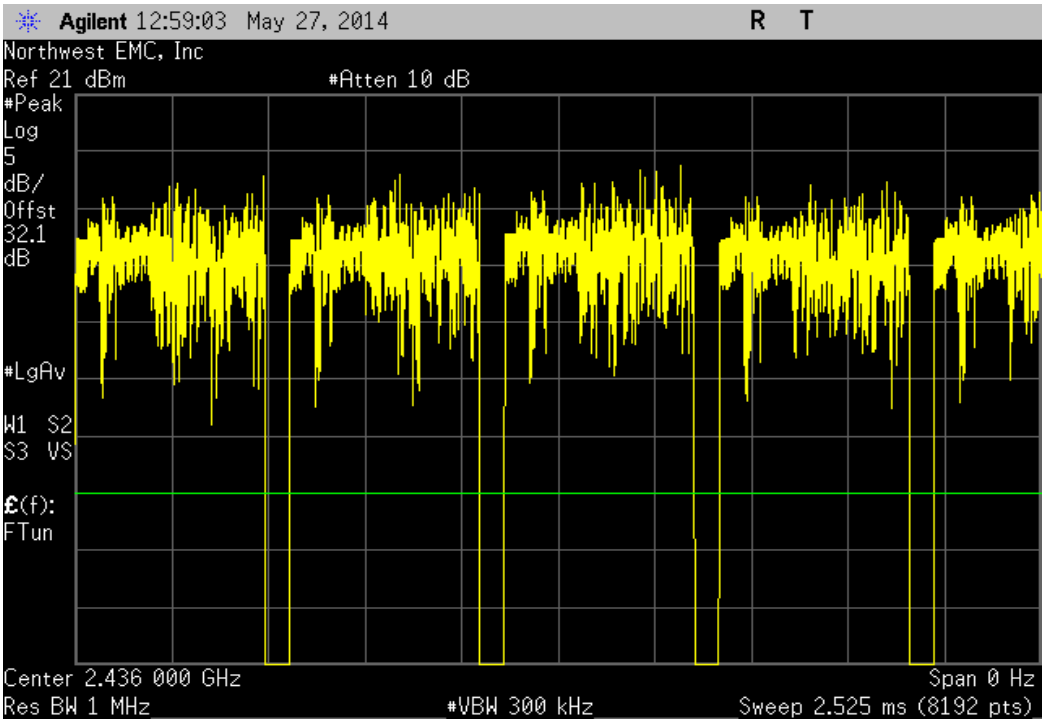


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Mid Channel 2436 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	496.1 uS	561.1 uS	1	88.4	N/A	N/A

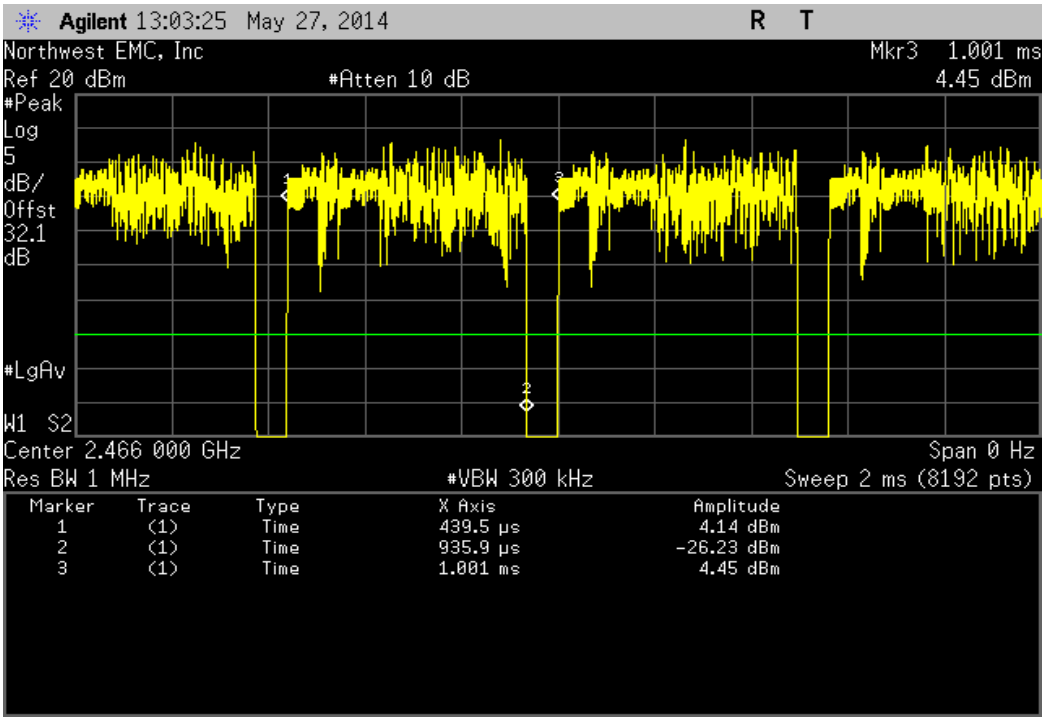


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Mid Channel 2436 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

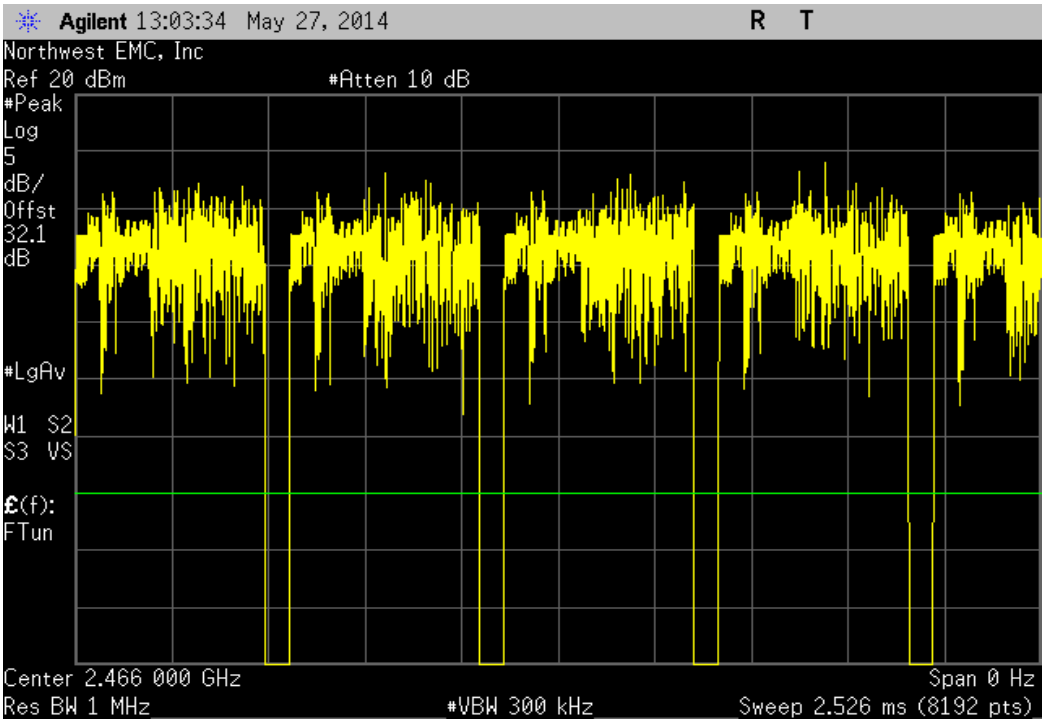


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, High Channel 2466 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	496.4 uS	561.4 uS	1	88.4	N/A	N/A

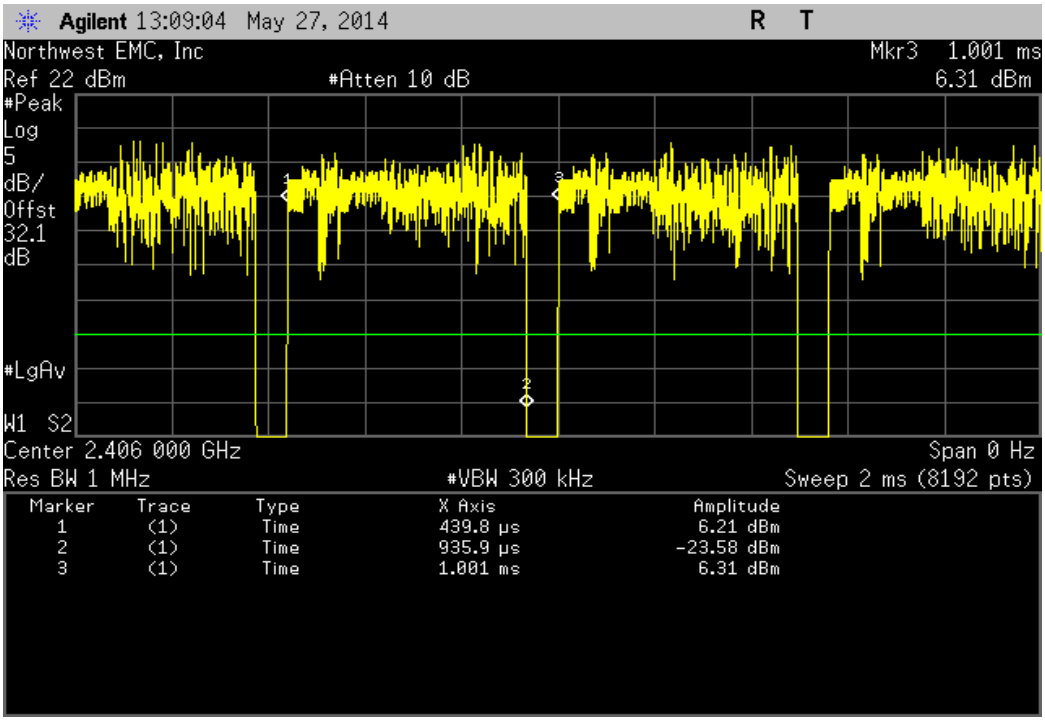


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, High Channel 2466 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

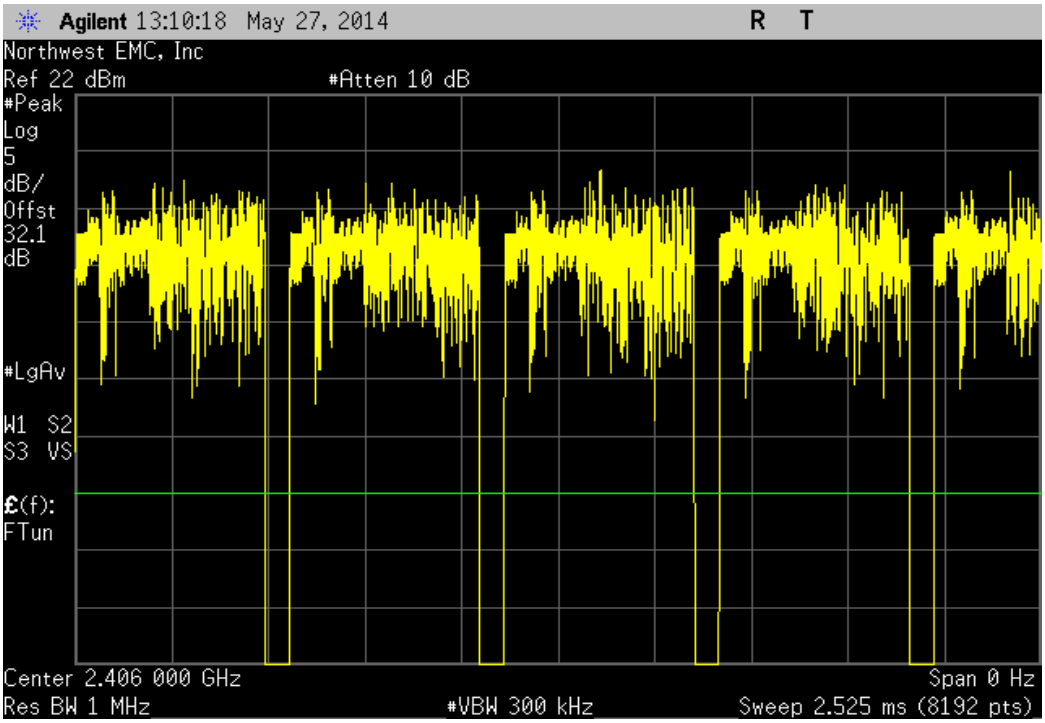


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6, Low Channel 2406 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	496.1 uS	561.1 uS	1	88.4	N/A	N/A

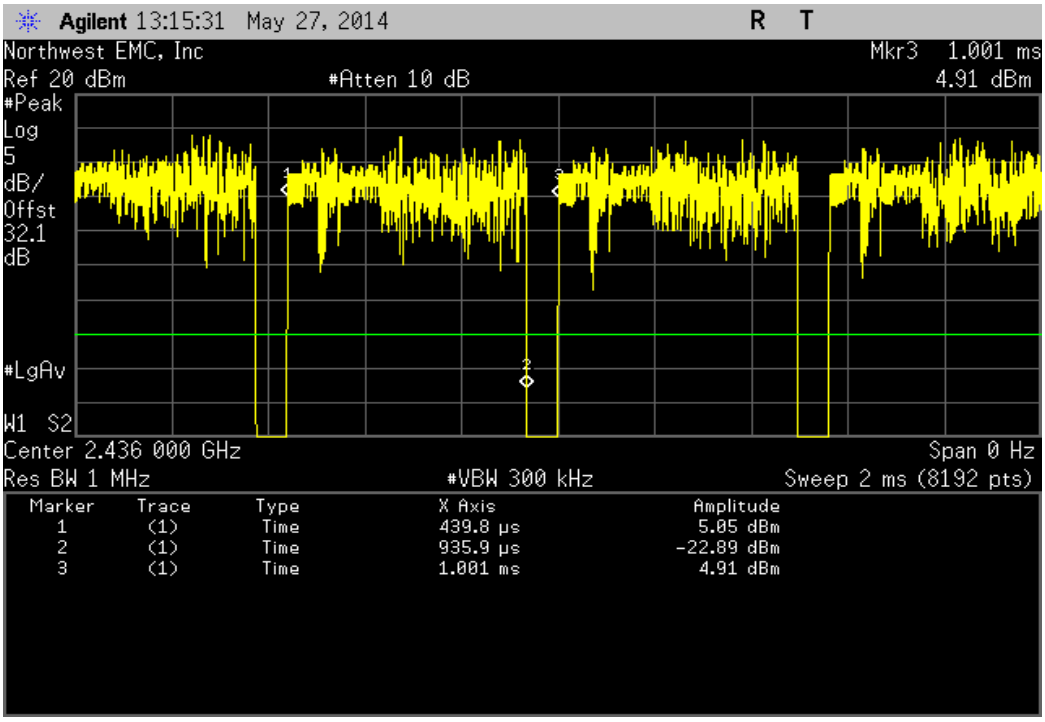


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6, Low Channel 2406 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

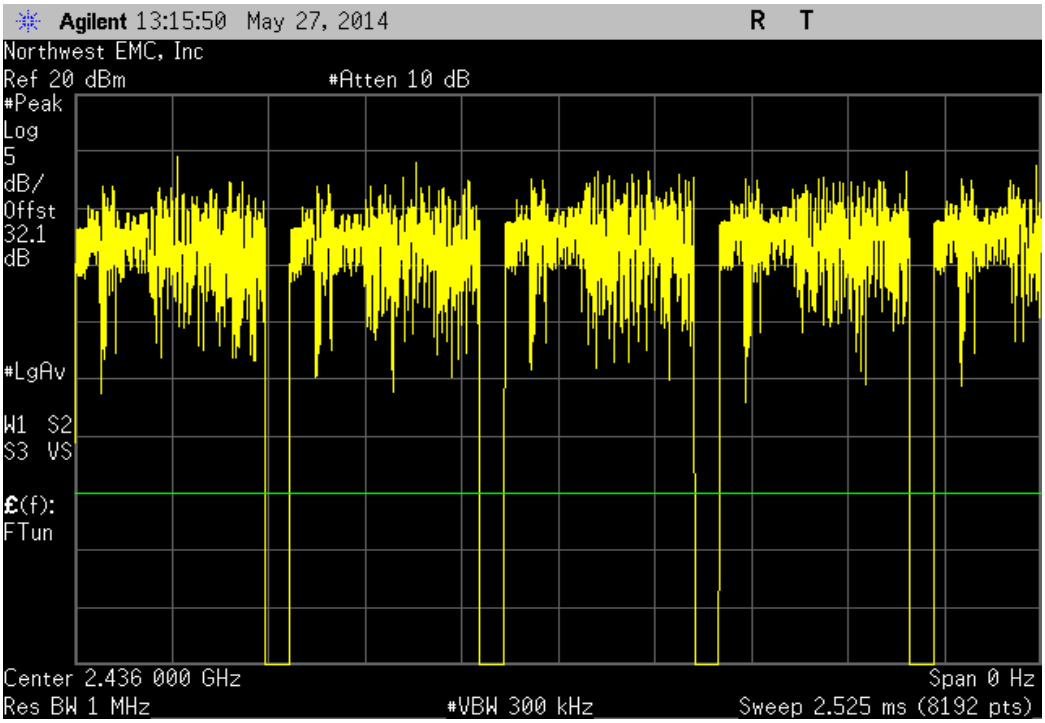


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6, Mid Channel 2436 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	496.1 uS	561.1 uS	1	88.4	N/A	N/A



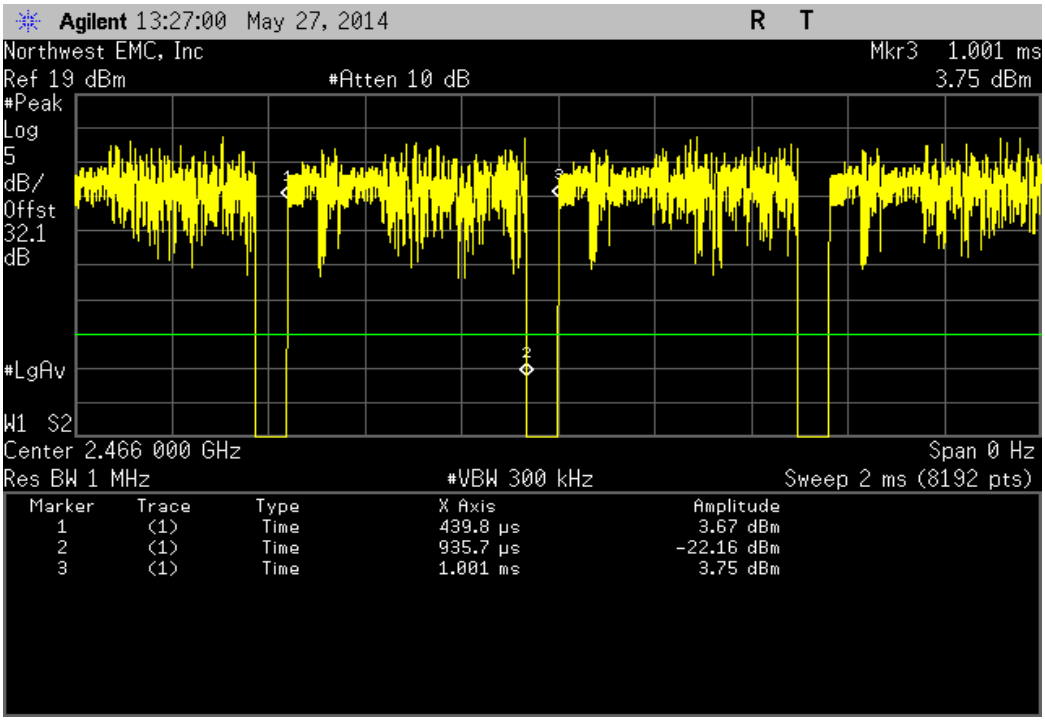
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6, Mid Channel 2436 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - SISO

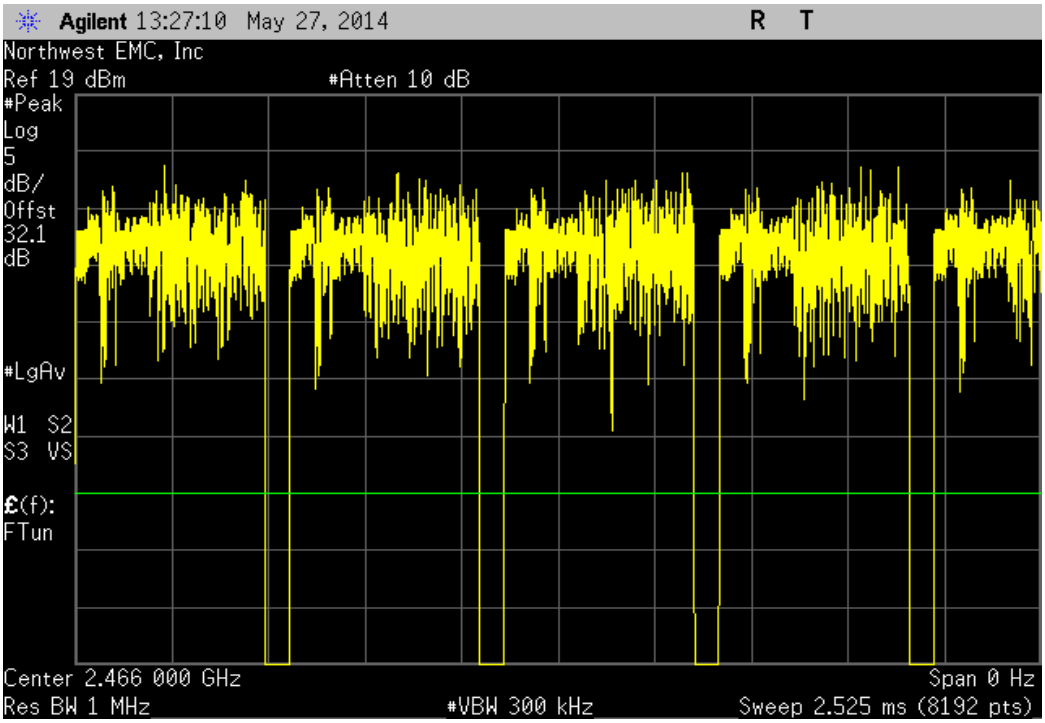
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6, High Channel 2466 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	495.9 uS	561.1 uS	1	88.4	N/A	N/A



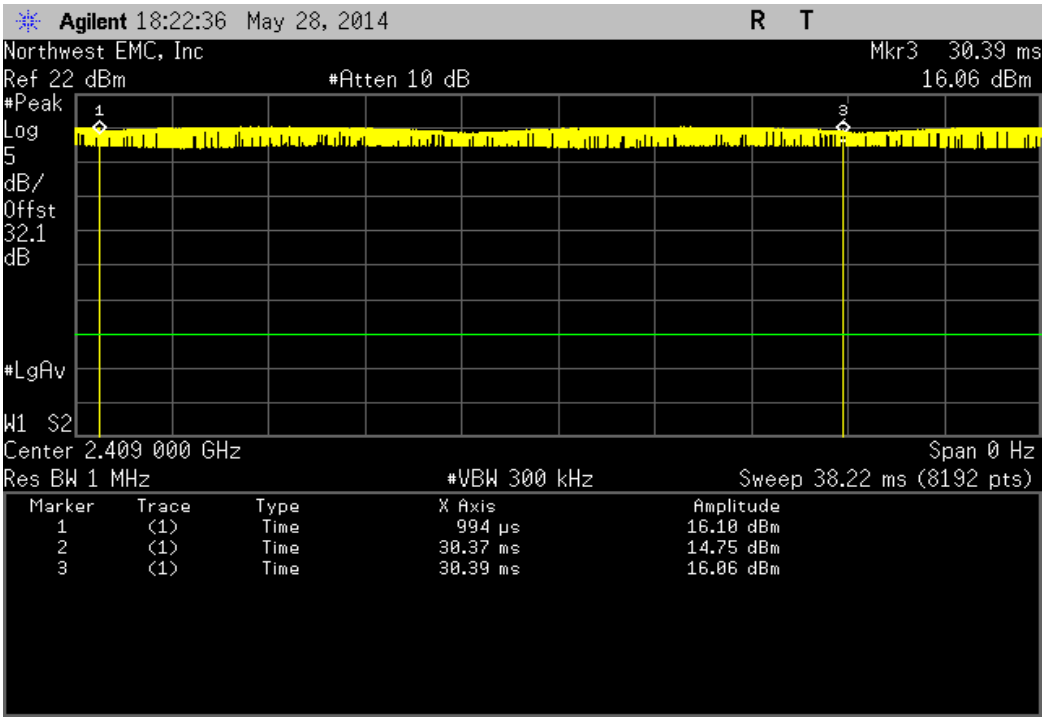
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6, High Channel 2466 MHz

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

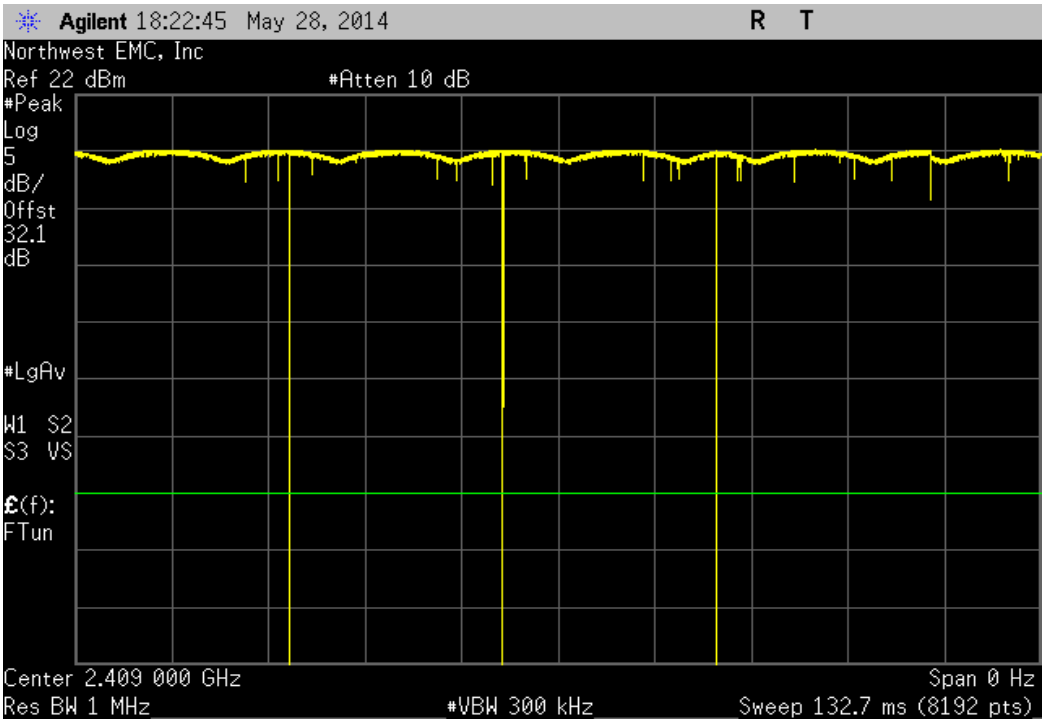


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, DBPSK, Low Channel 2409 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	29.377 mS	29.4 mS	1	99.9	N/A	N/A

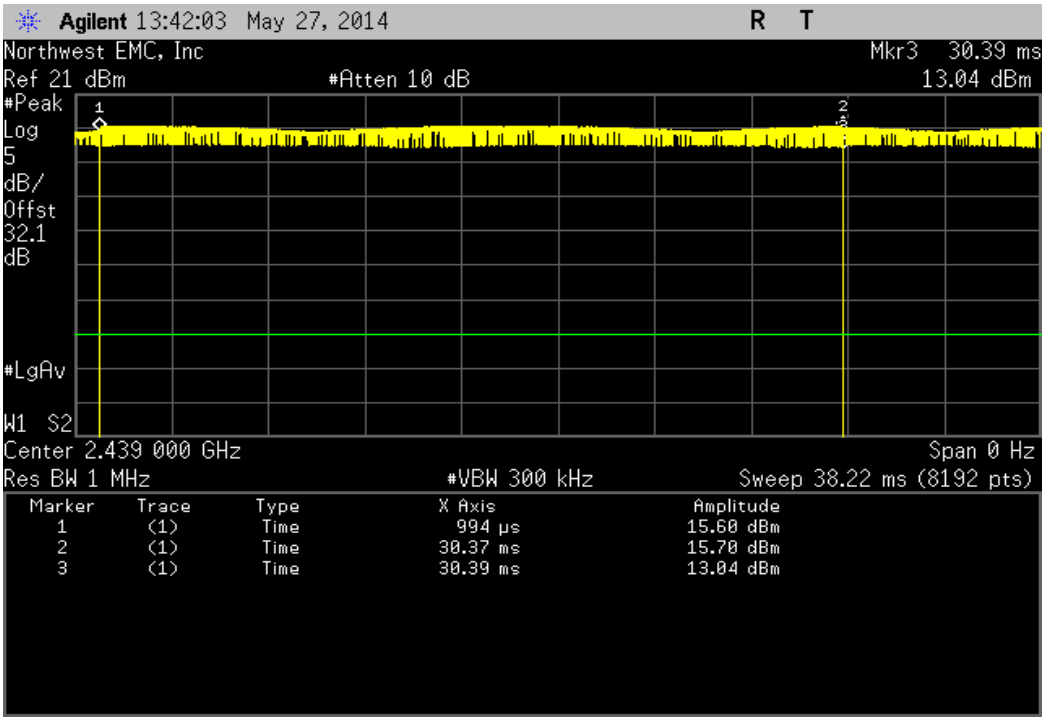


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, DBPSK, Low Channel 2409 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	4	N/A	N/A	N/A

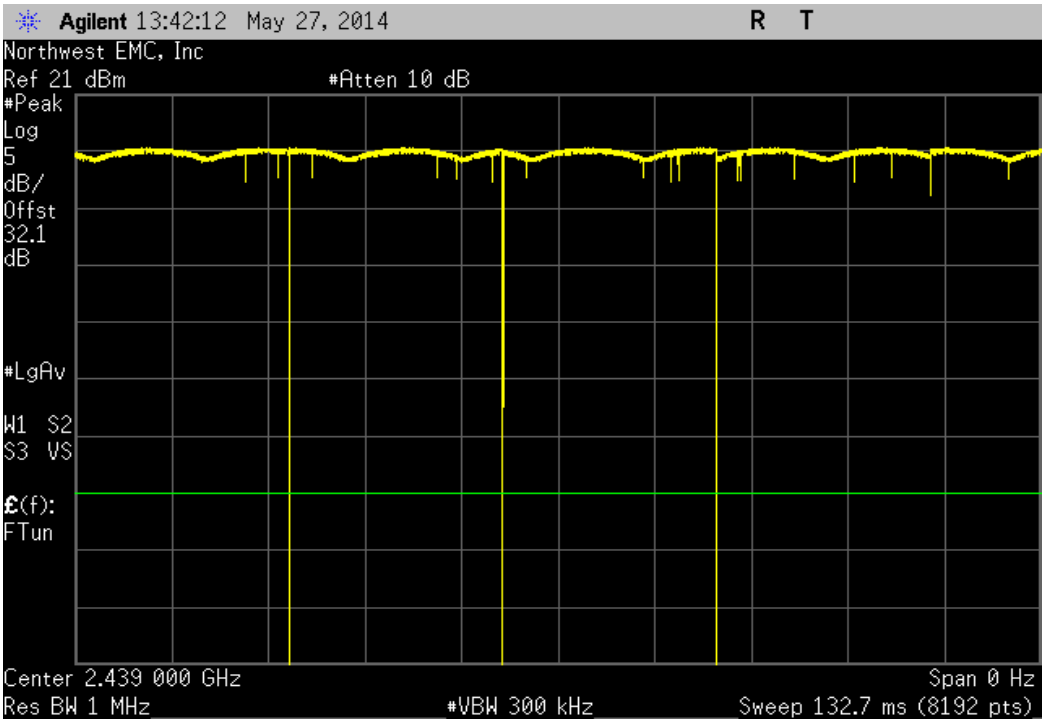


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, DBPSK, Mid Channel 2439 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	29.377 mS	29.4 mS	1	99.9	N/A	N/A

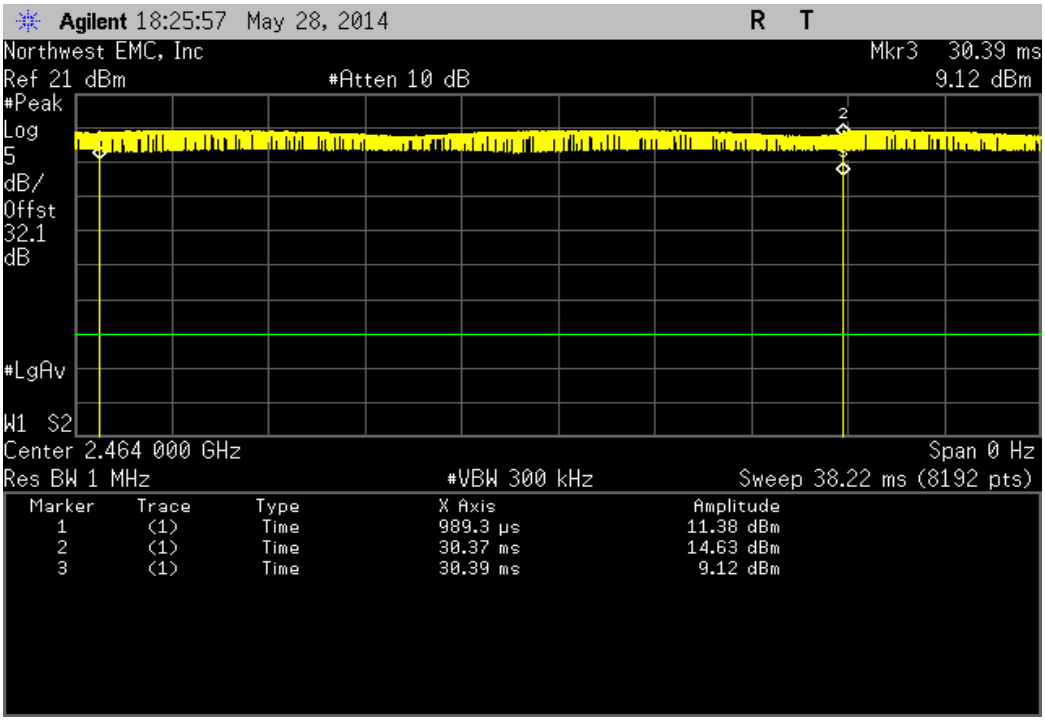


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, DBPSK, Mid Channel 2439 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	4	N/A	N/A	N/A

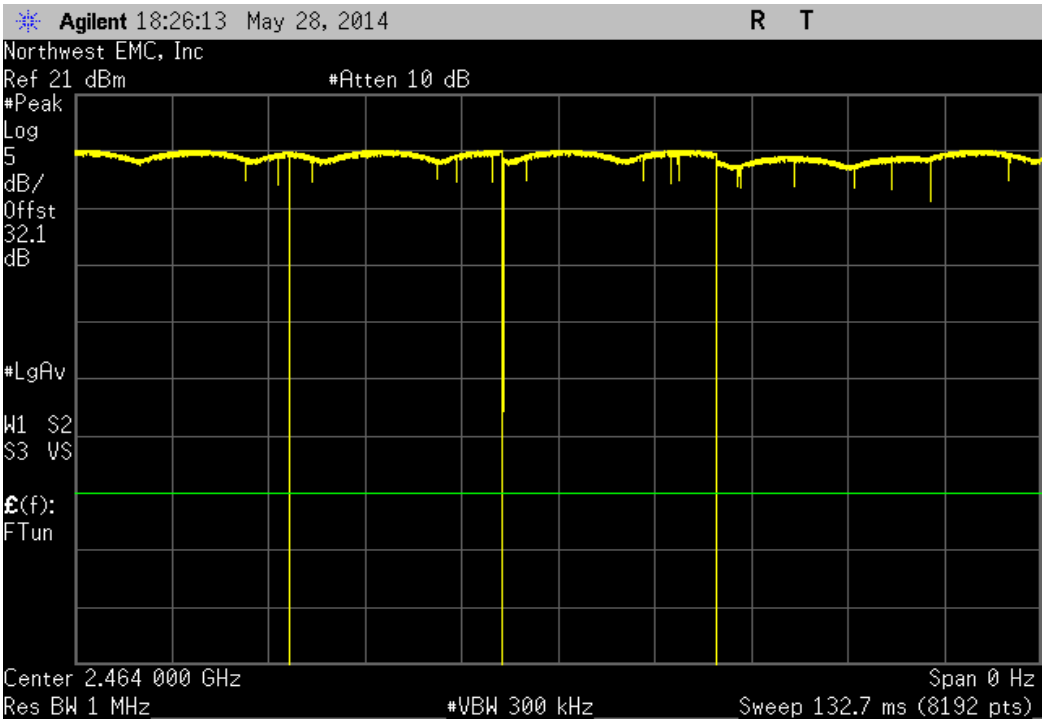


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, DBPSK, High Channel 2464 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	29.377 mS	29.4 mS	1	99.9	N/A	N/A

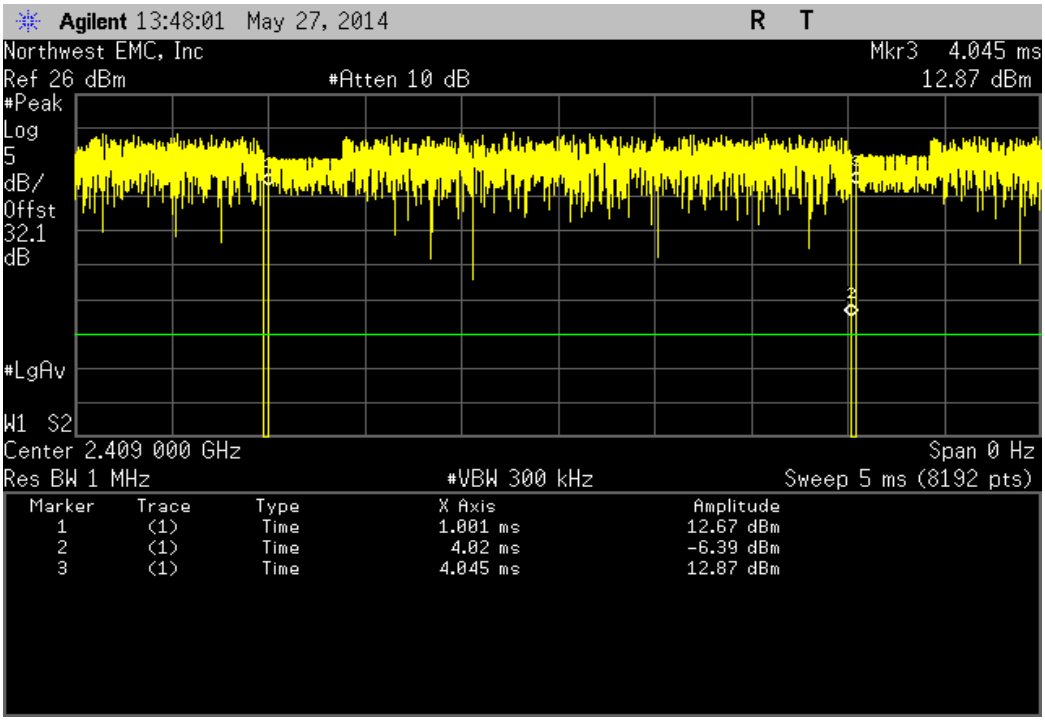


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, DBPSK, High Channel 2464 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	4	N/A	N/A	N/A

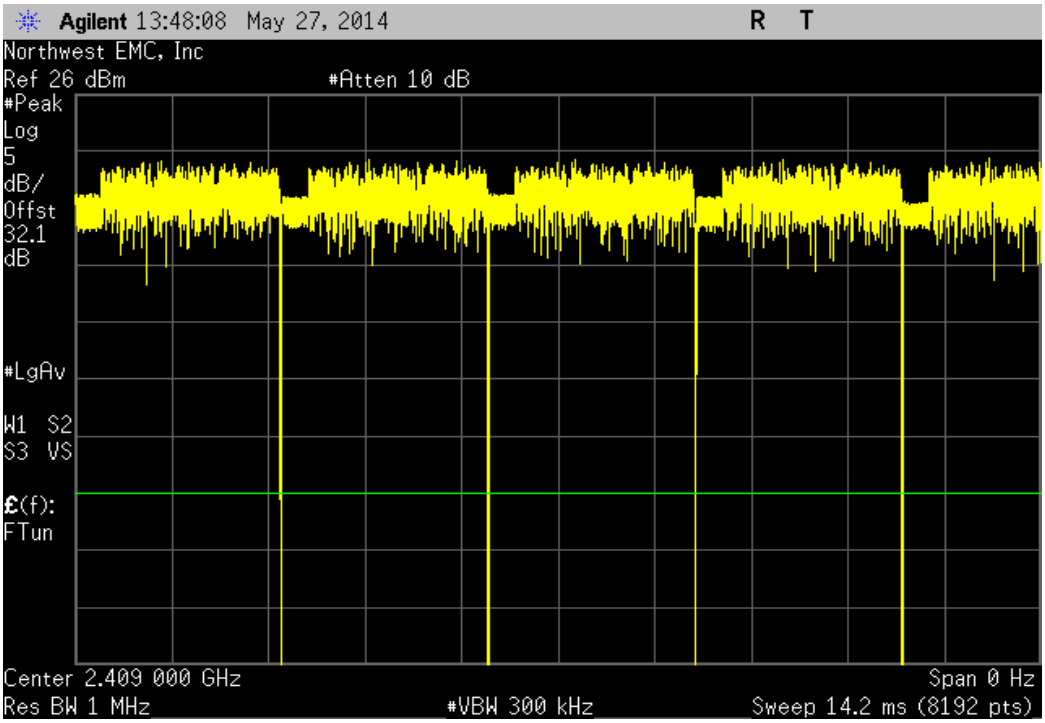


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, QPSK, Low Channel 2409 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	3.02 mS	3.044 mS	1	99.2	N/A	N/A

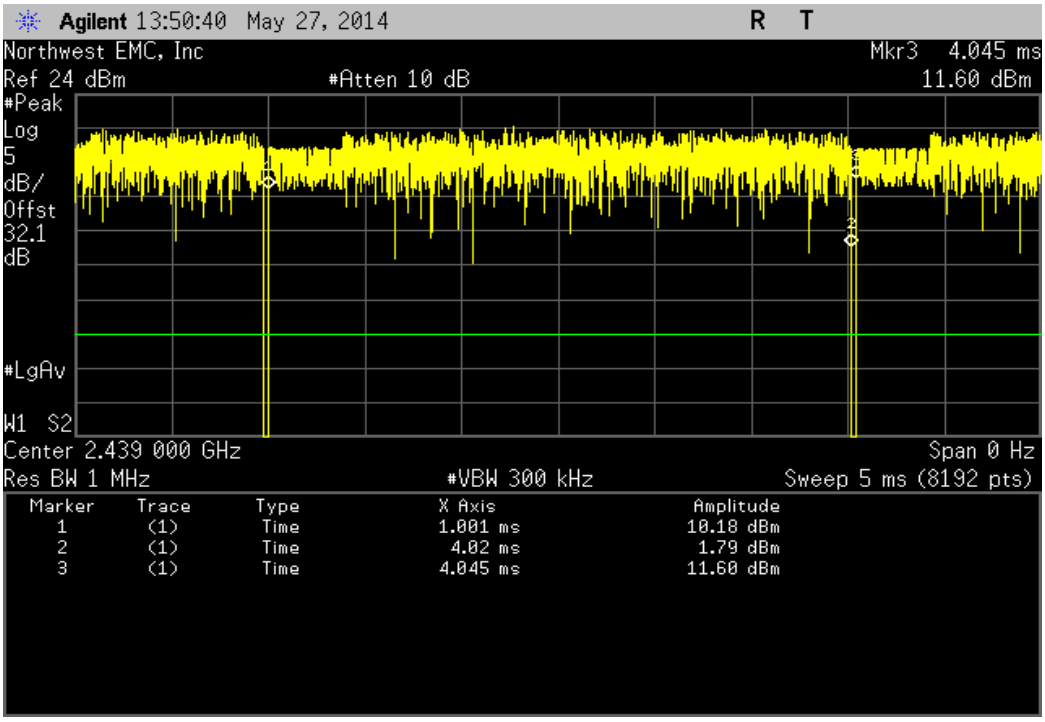


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, QPSK, Low Channel 2409 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

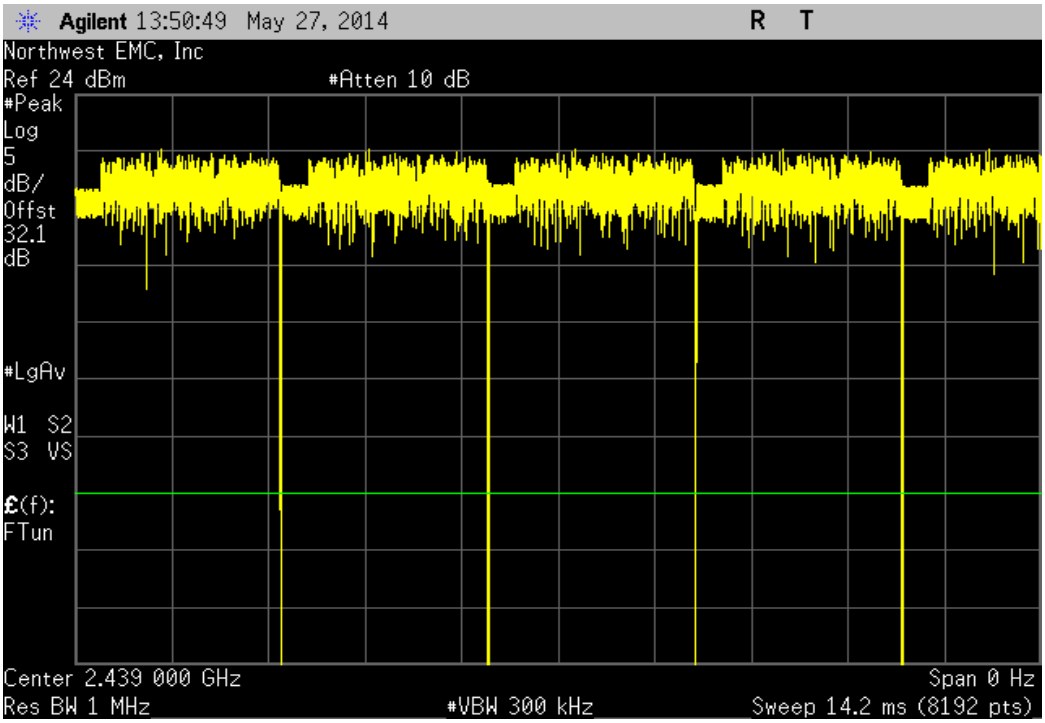


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, QPSK, Mid Channel 2439 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	3.02 mS	3.044 mS	1	99.2	N/A	N/A

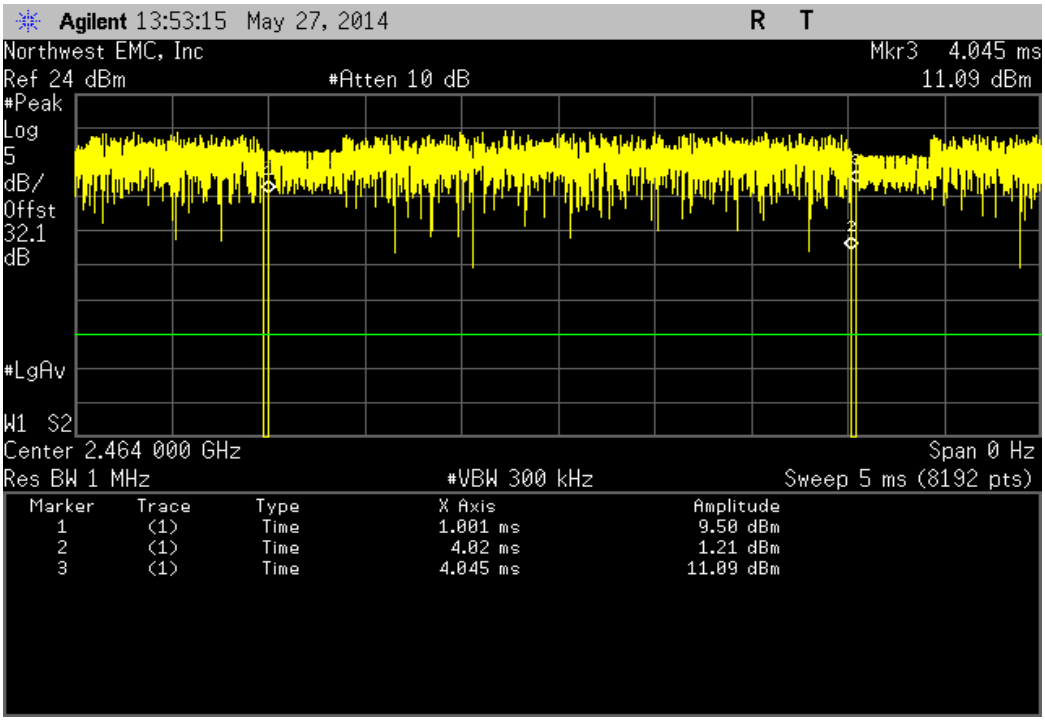


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, QPSK, Mid Channel 2439 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

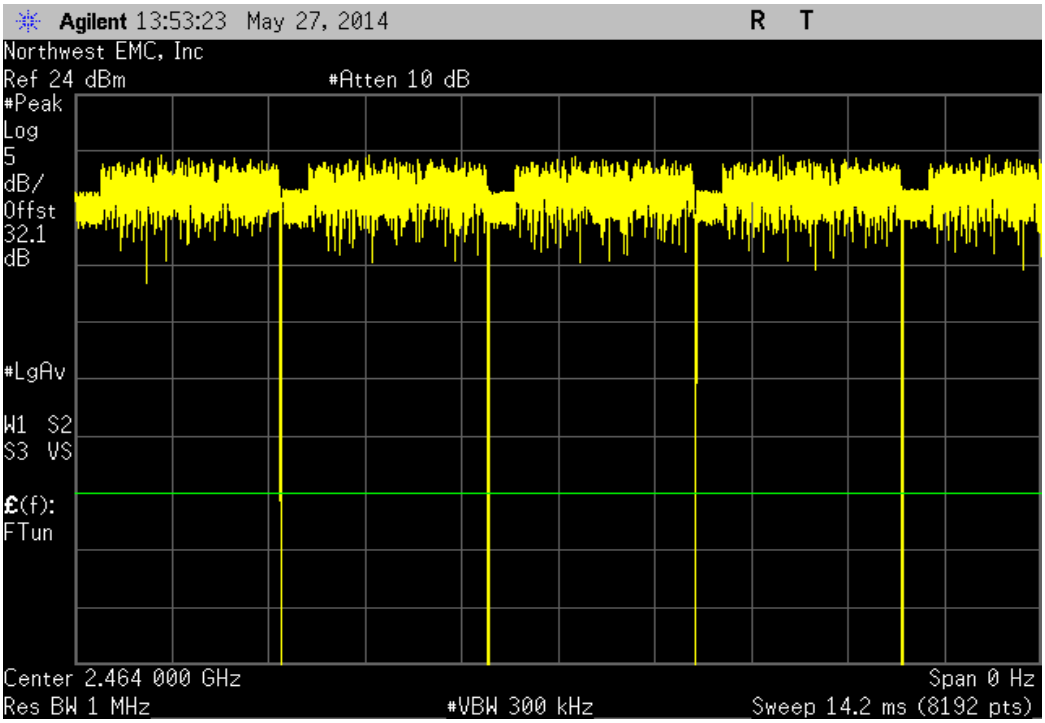


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, QPSK, High Channel 2464 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	3.02 mS	3.044 mS	1	99.2	N/A	N/A



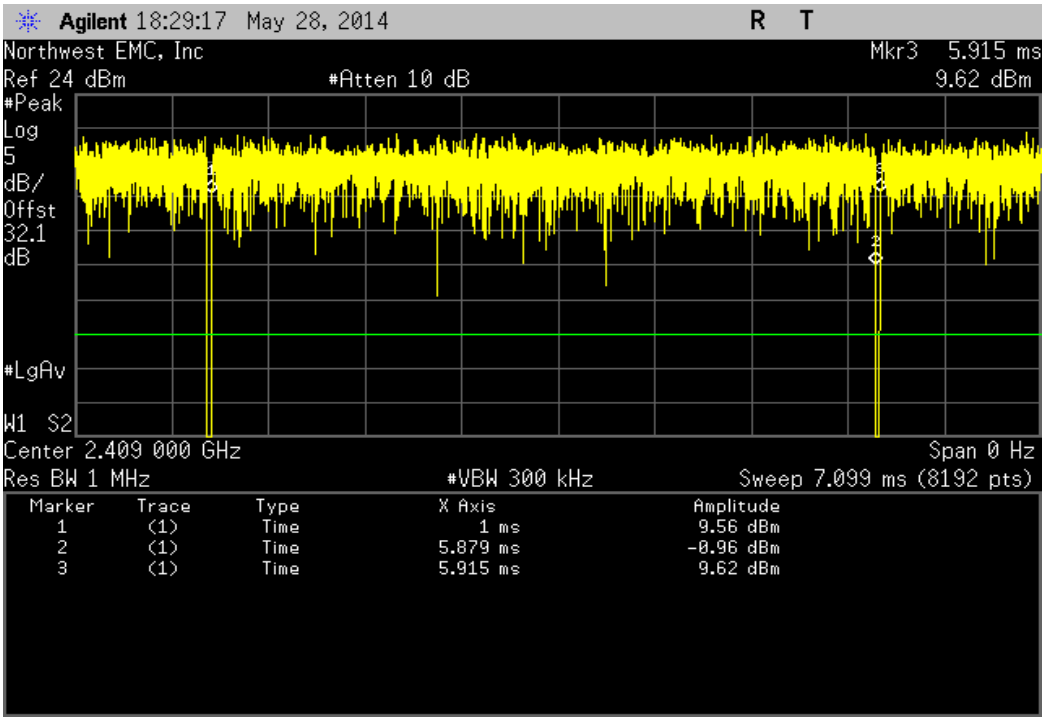
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, QPSK, High Channel 2464 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - SISO

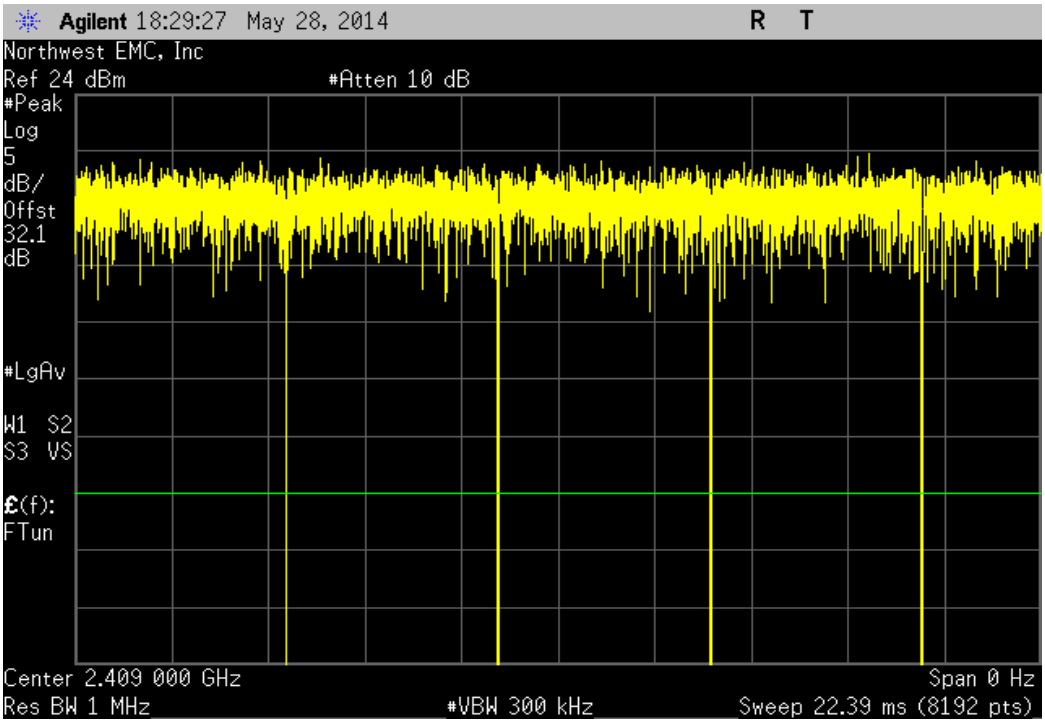
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 2409 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	4.879 mS	4.915 mS	1	99.3	N/A	N/A



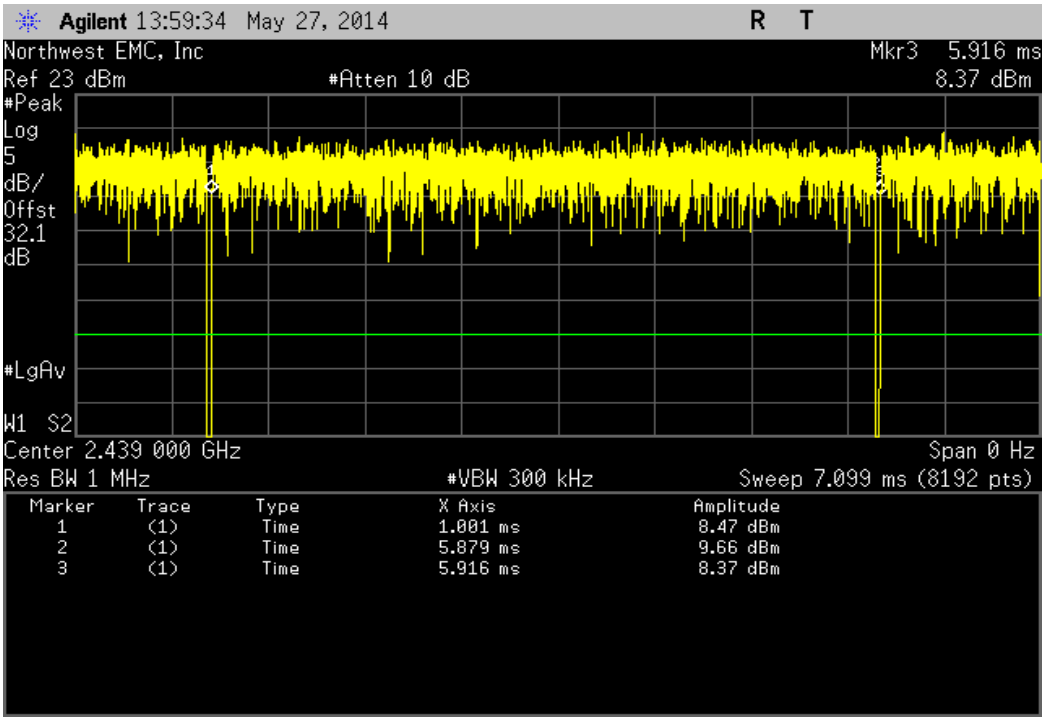
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 2409 MHz

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

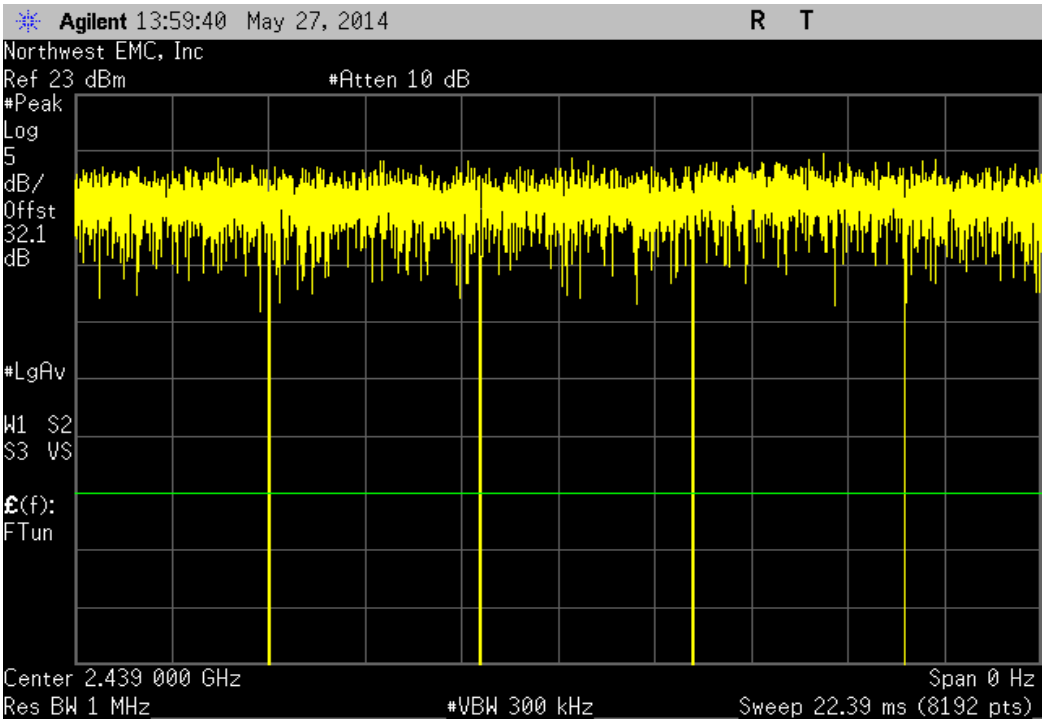


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Mid Channel 2439 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	4.879 mS	4.915 mS	1	99.3	N/A	N/A



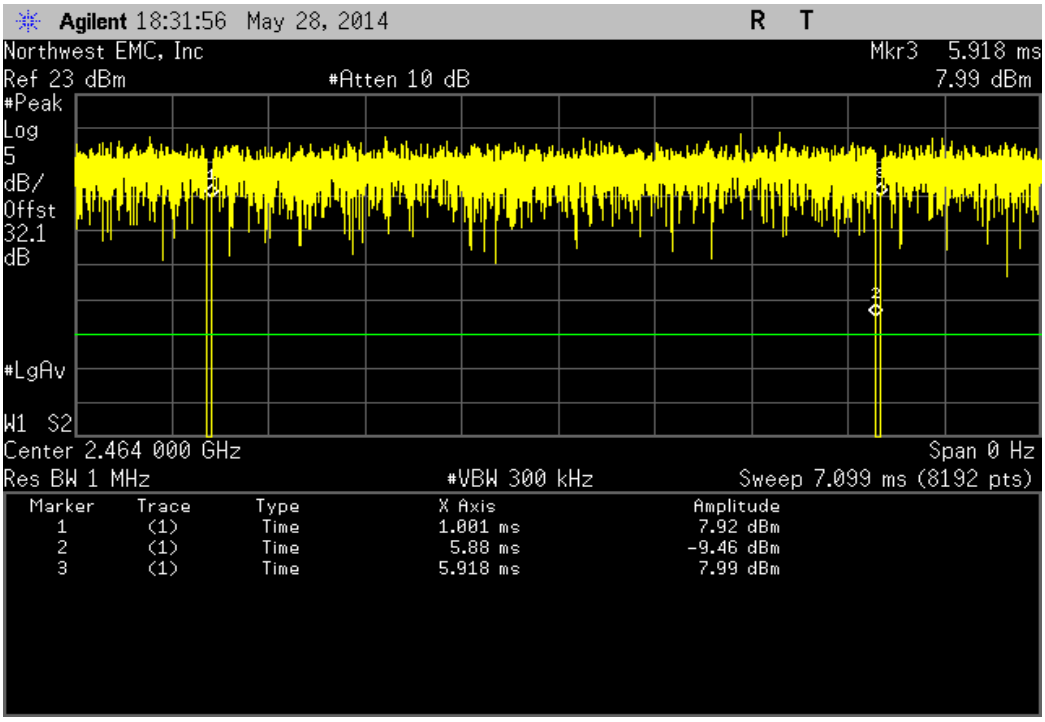
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Mid Channel 2439 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, High Channel 2464 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	4.879 mS	4.918 mS	1	99.2	N/A	N/A



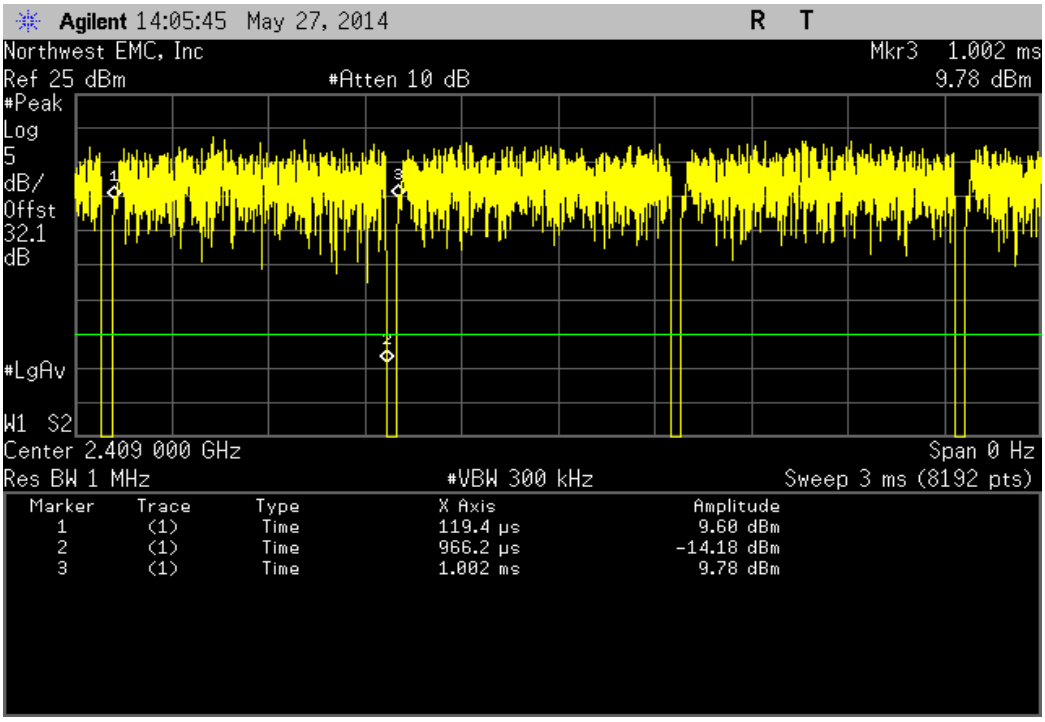
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, High Channel 2464 MHz

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

DUTY CYCLE - SISO

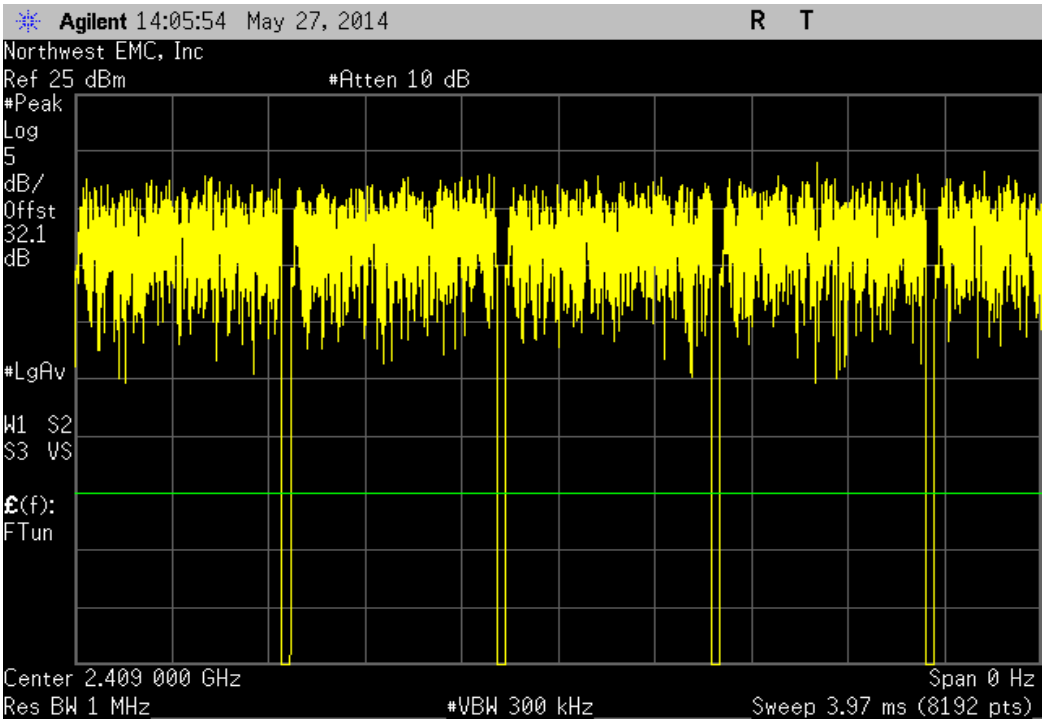
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4, Low Channel 2409 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	846.8 uS	882.3 uS	1	96	N/A	N/A



2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4, Low Channel 2409 MHz

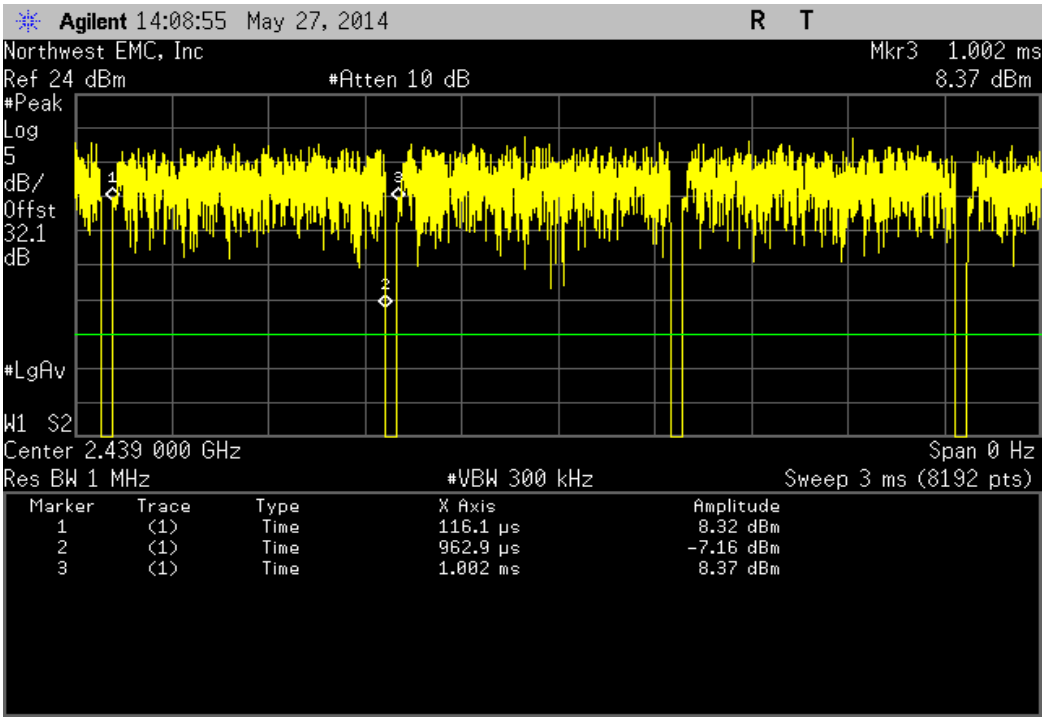
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - SISO

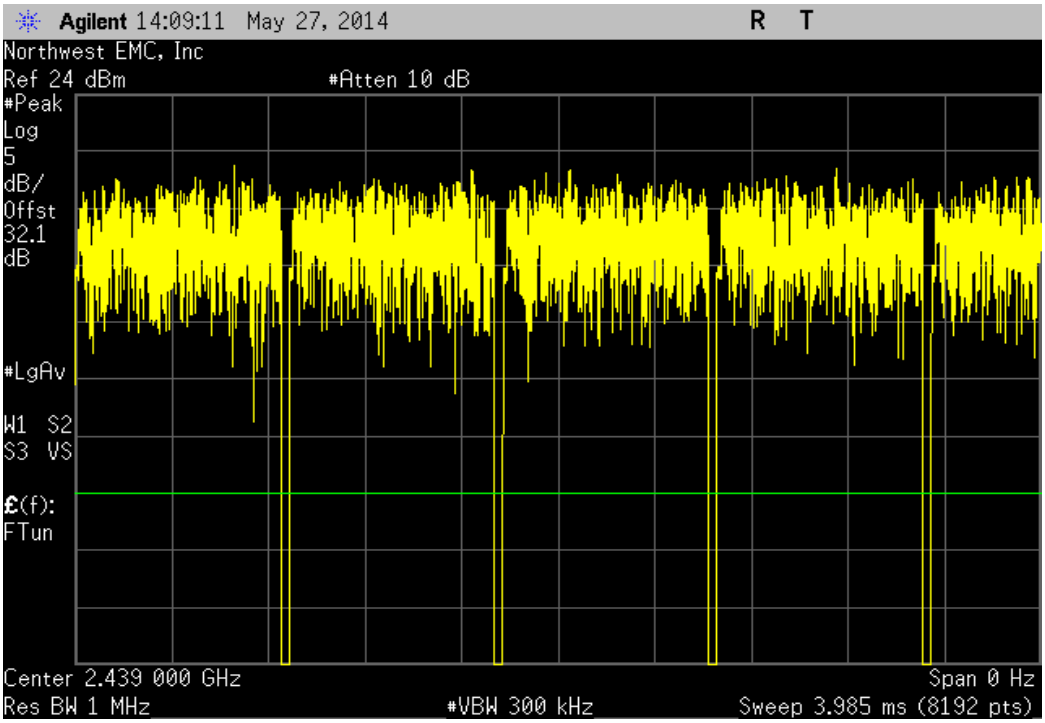
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4, Mid Channel 2439 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	846.8 uS	885.6 uS	1	95.6	N/A	N/A



2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4, Mid Channel 2439 MHz

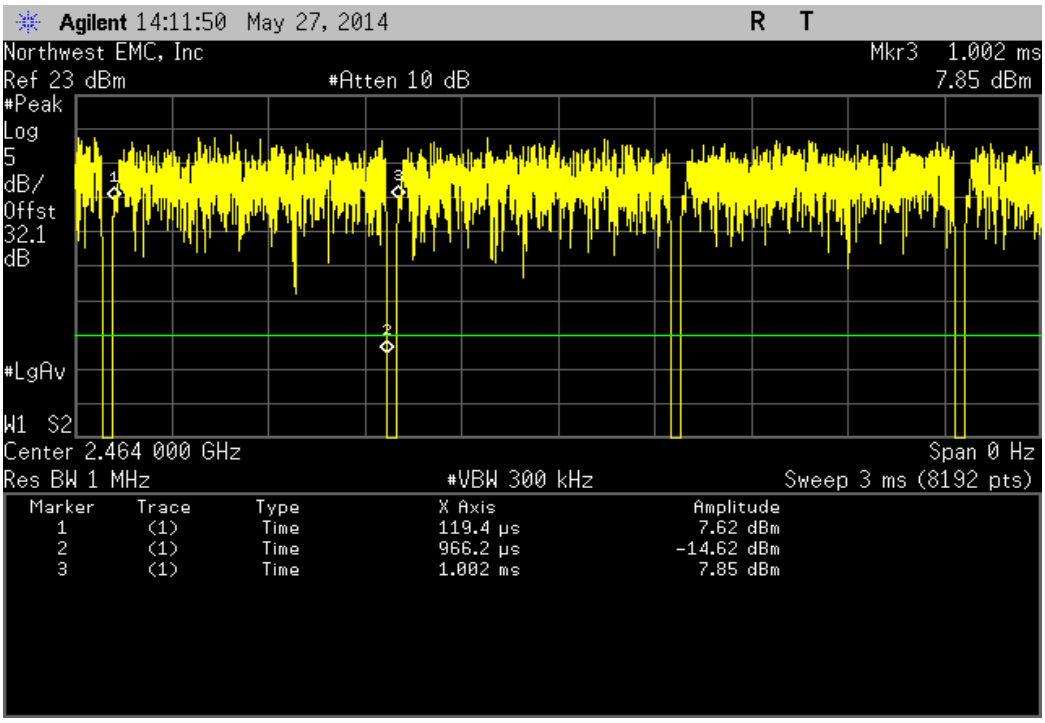
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - SISO

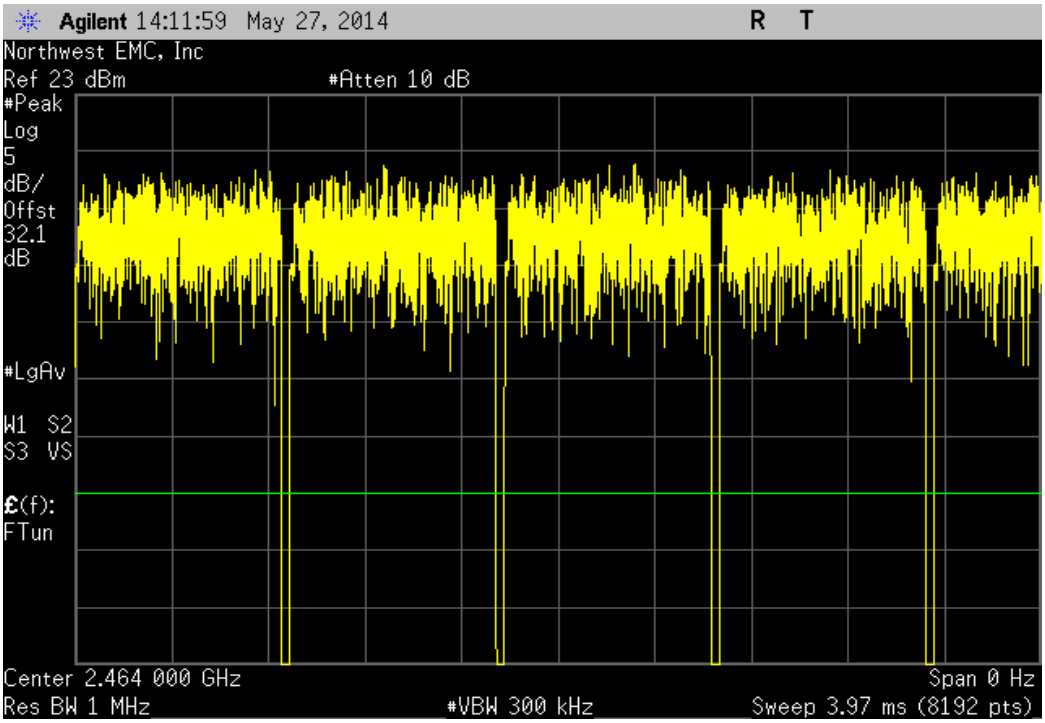
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4, High Channel 2464 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	846.8 uS	882.3 uS	1	96	N/A	N/A



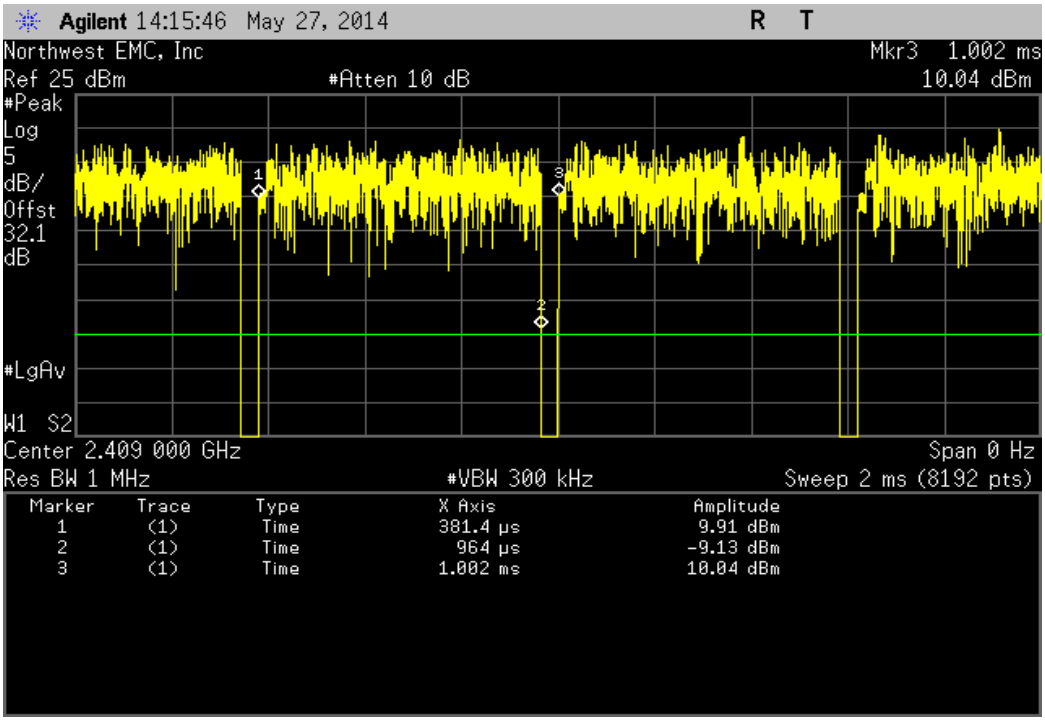
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4, High Channel 2464 MHz

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

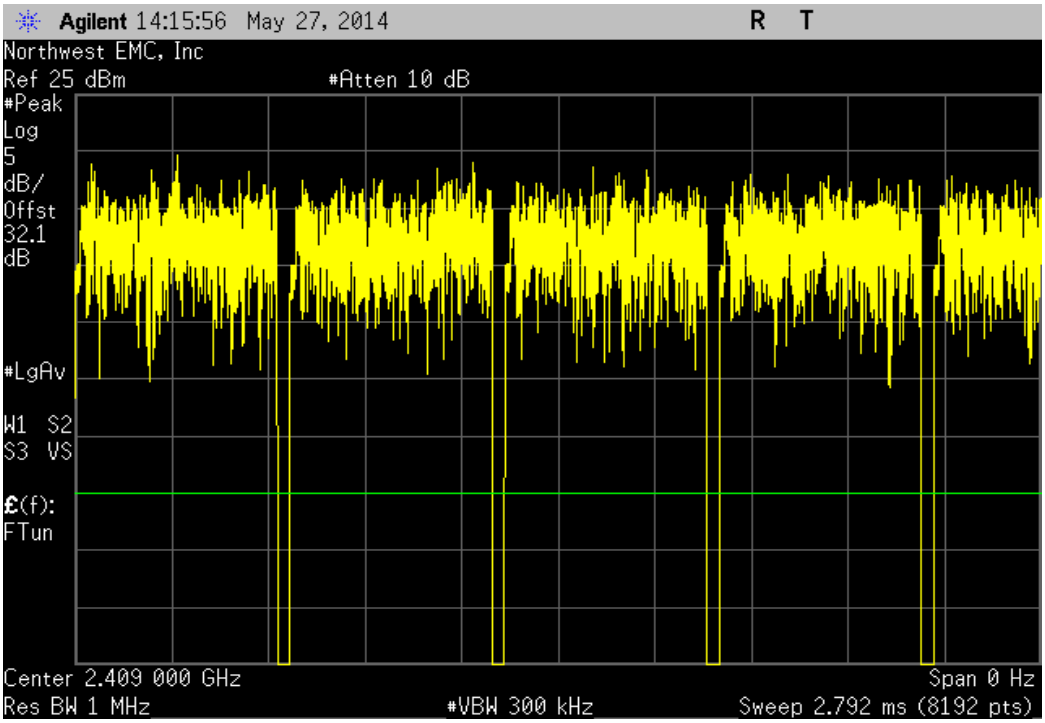


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4, Low Channel 2409 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	582.6 uS	620.4 uS	1	93.9	N/A	N/A



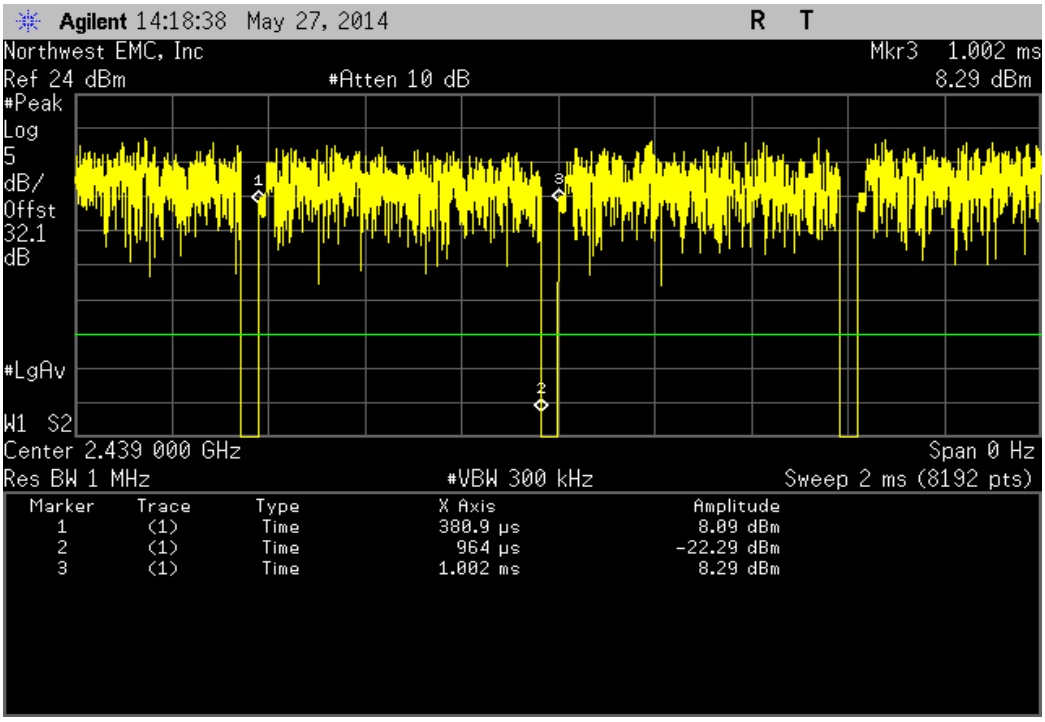
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4, Low Channel 2409 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - SISO

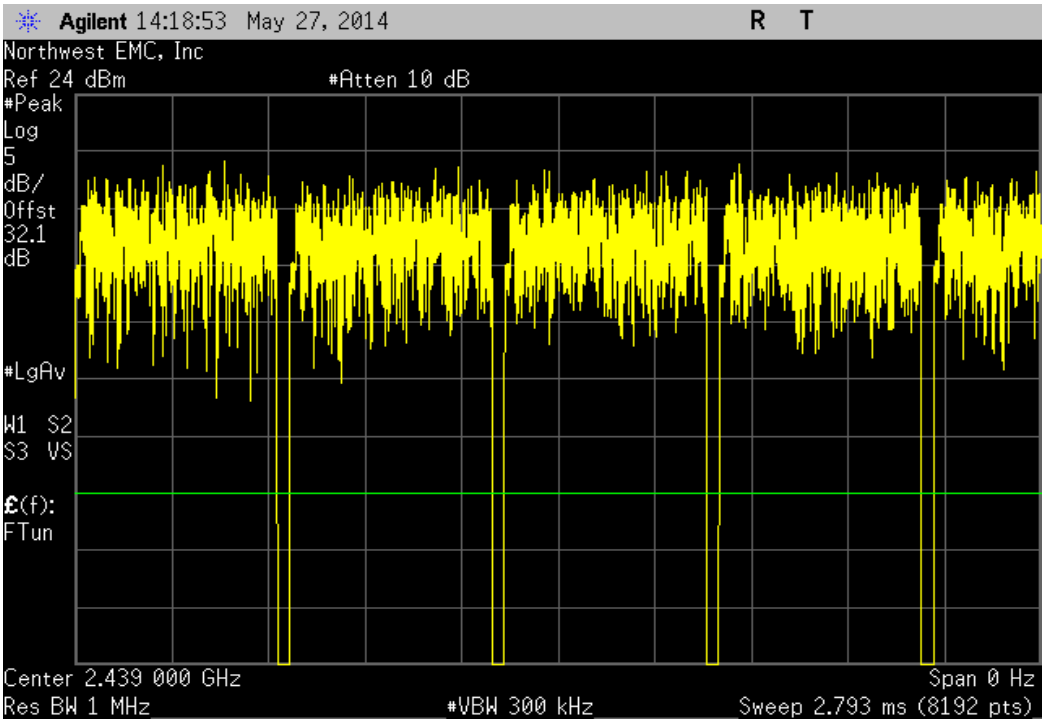
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4, Mid Channel 2439 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	583.1 uS	620.7 uS	1	93.9	N/A	N/A



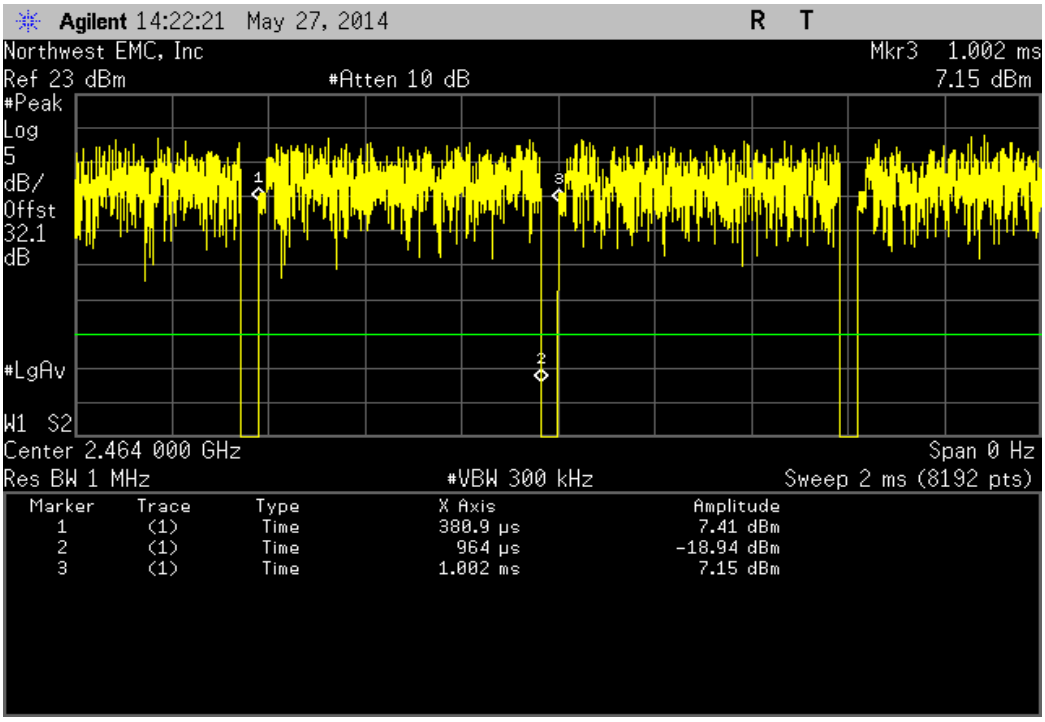
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4, Mid Channel 2439 MHz

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

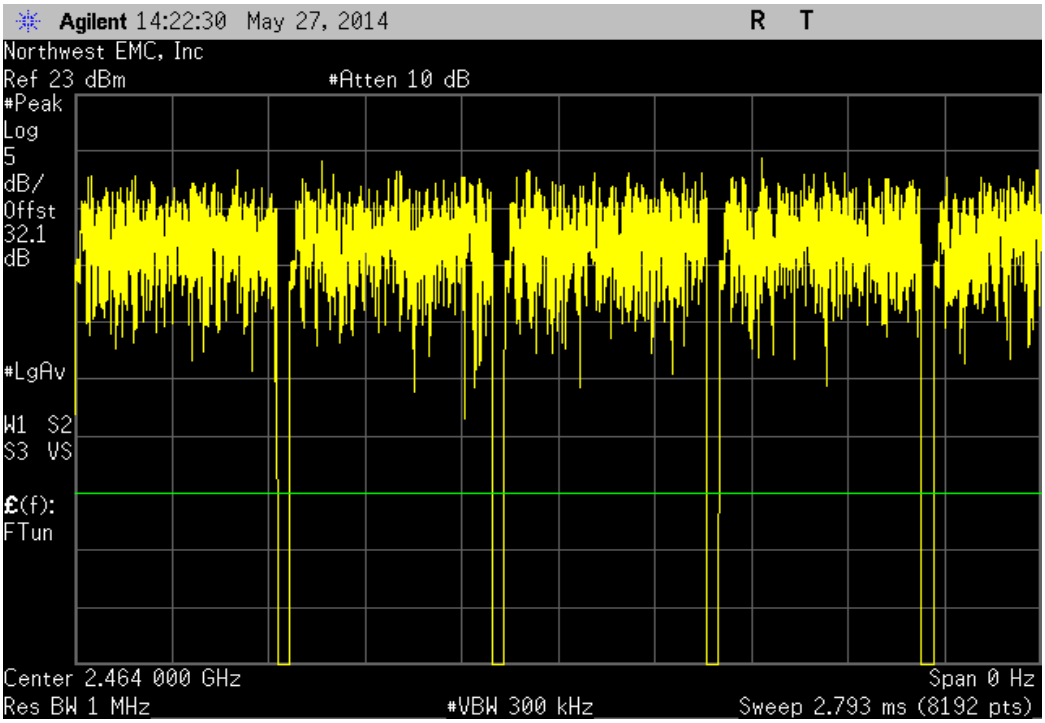


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4, High Channel 2464 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	583.1 uS	620.7 uS	1	93.9	N/A	N/A

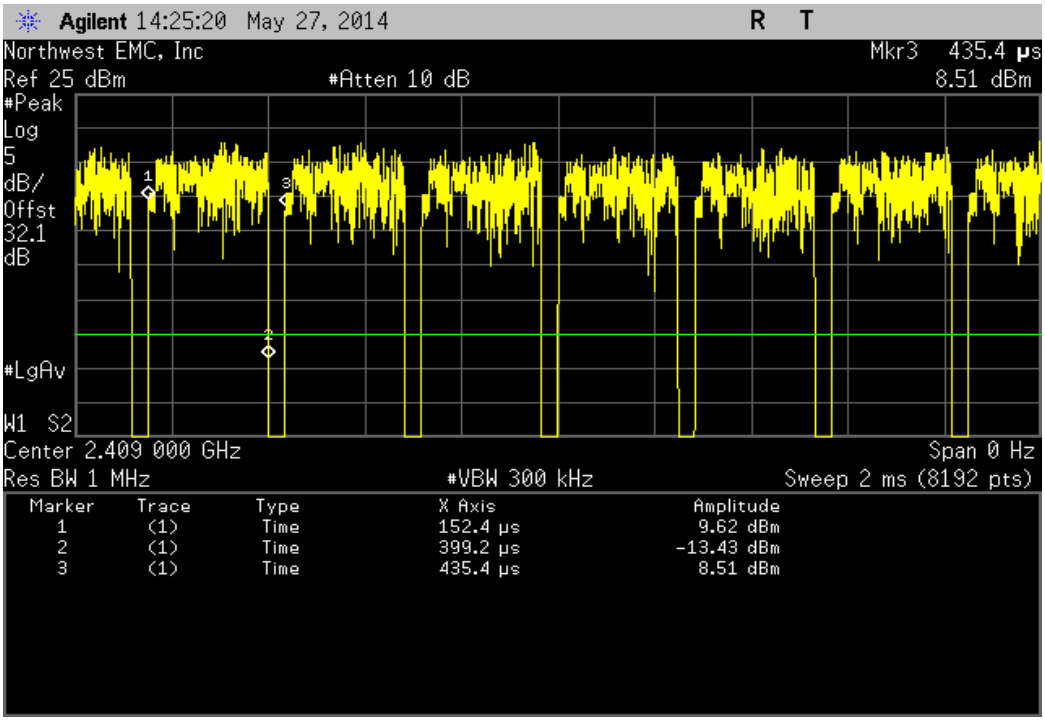


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4, High Channel 2464 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

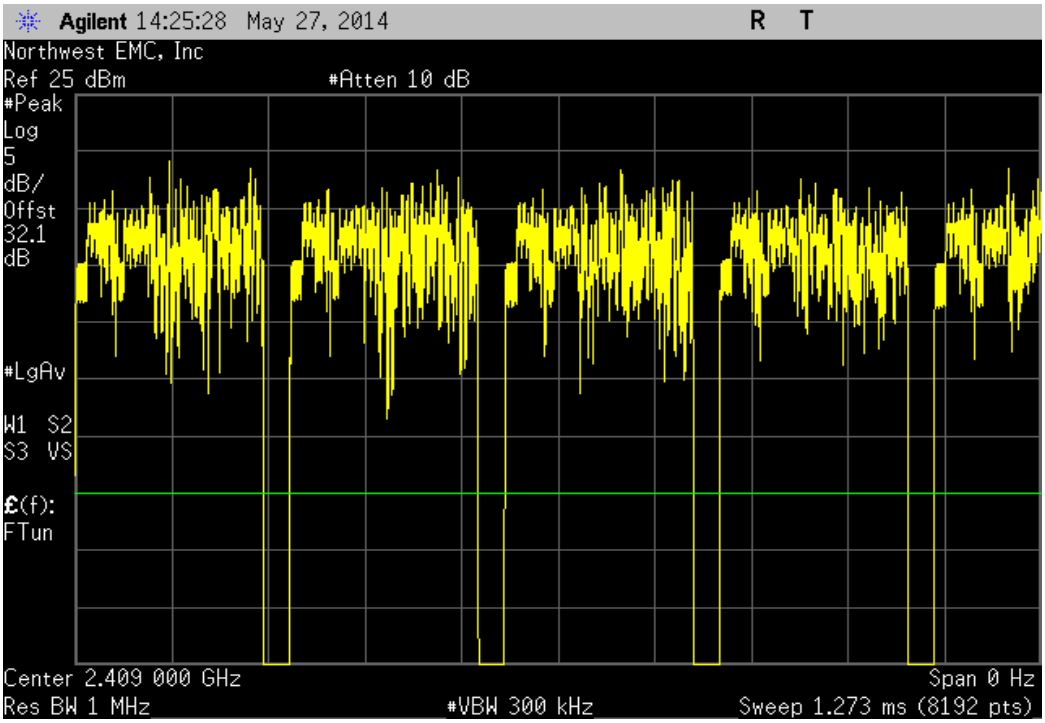


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 2409 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	246.8 uS	283 uS	1	87.2	N/A	N/A

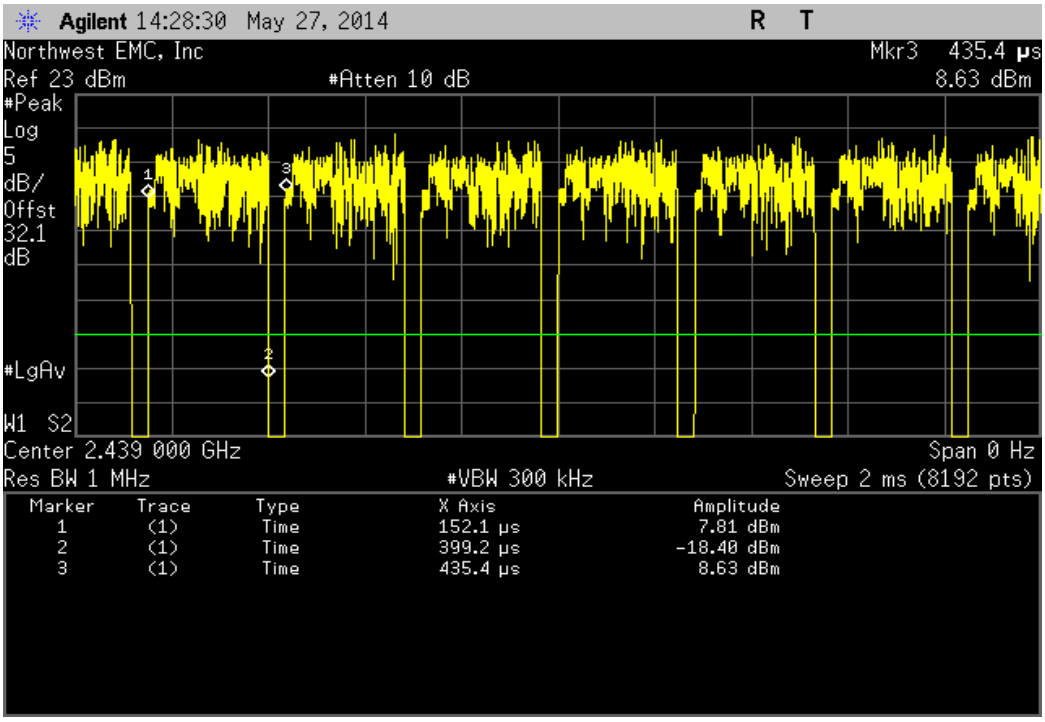


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 2409 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

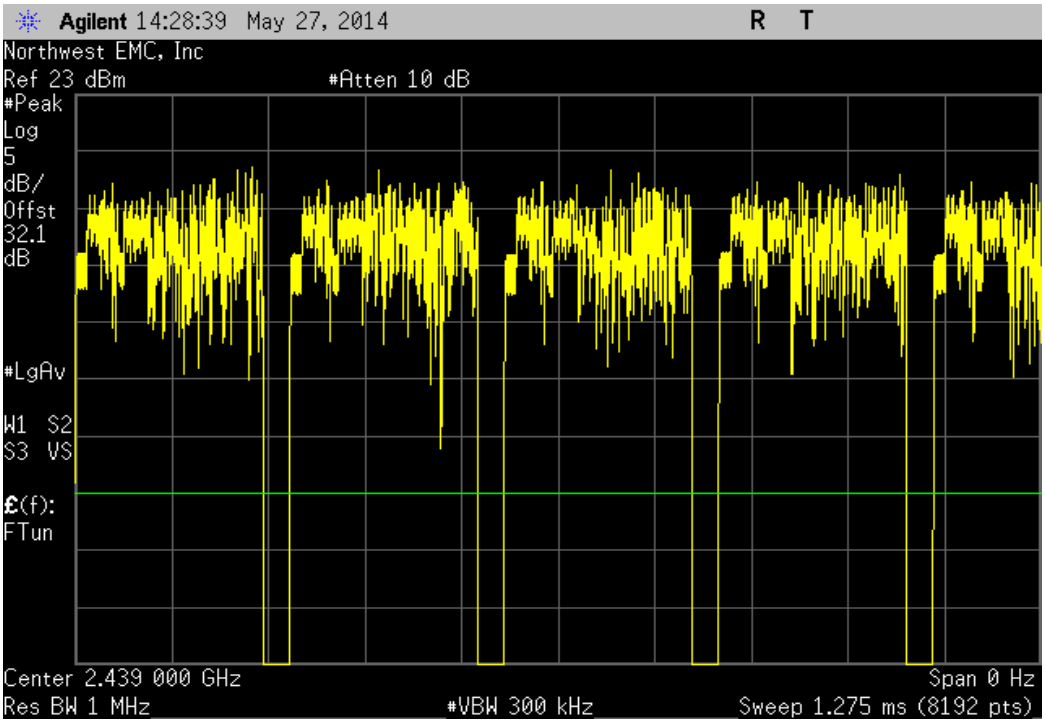


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Mid Channel 2439 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	247.1 uS	283.3 uS	1	87.2	N/A	N/A

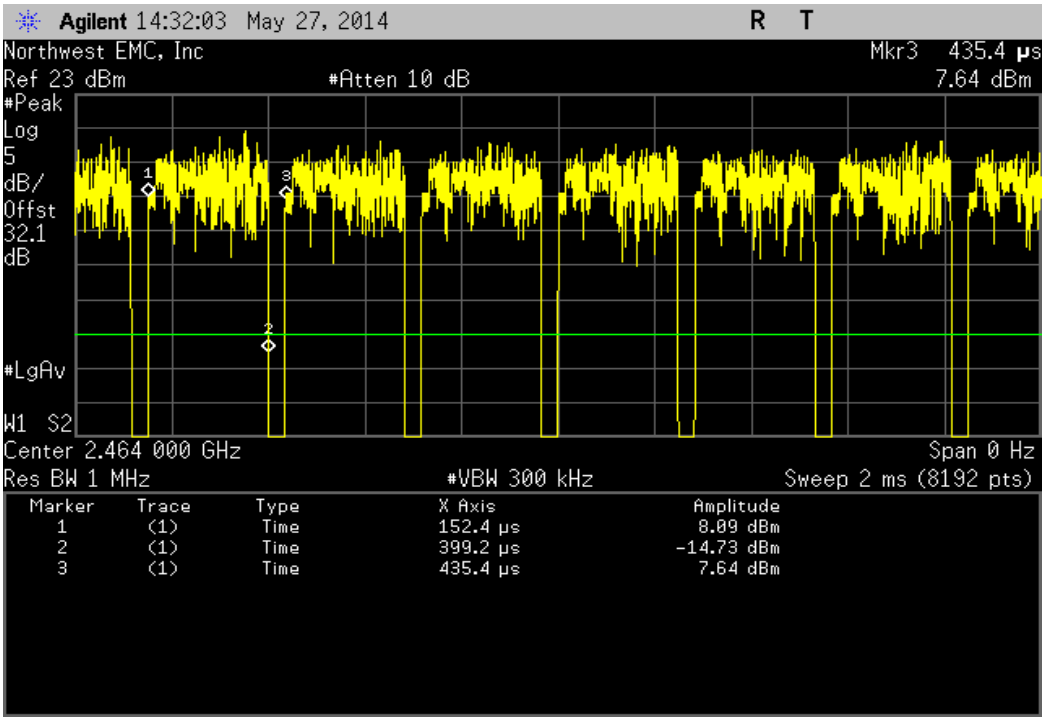


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Mid Channel 2439 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

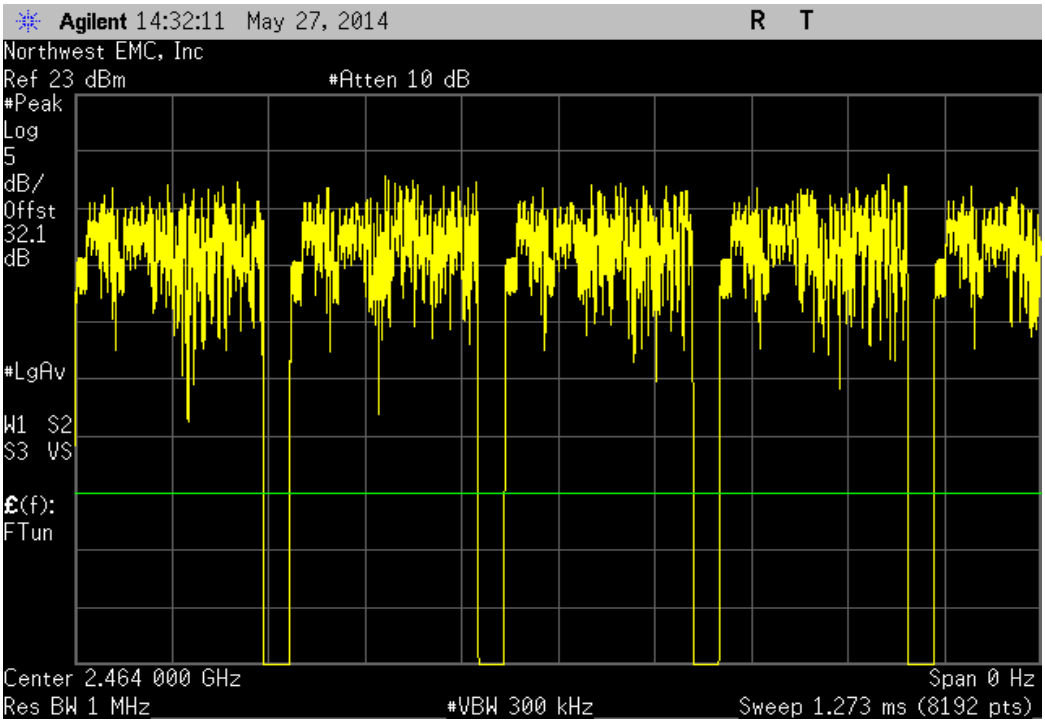


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, High Channel 2464 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	246.8 uS	283 uS	1	87.2	N/A	N/A

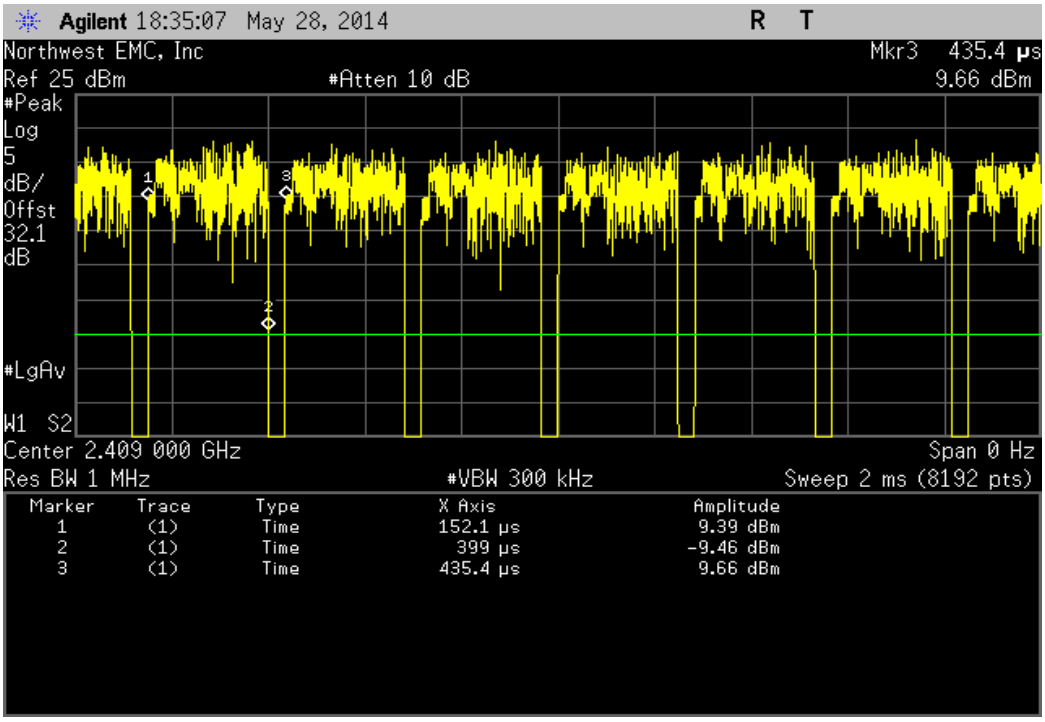


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, High Channel 2464 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

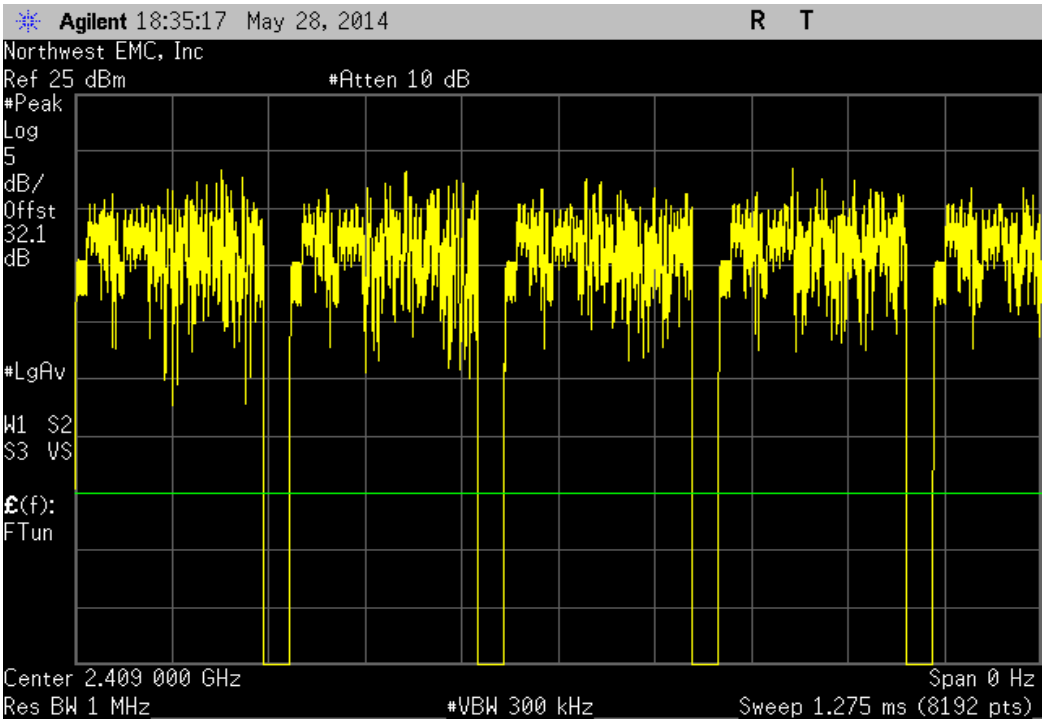


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6, Low Channel 2409 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	246.9 uS	283.3 uS	1	87.2	N/A	N/A



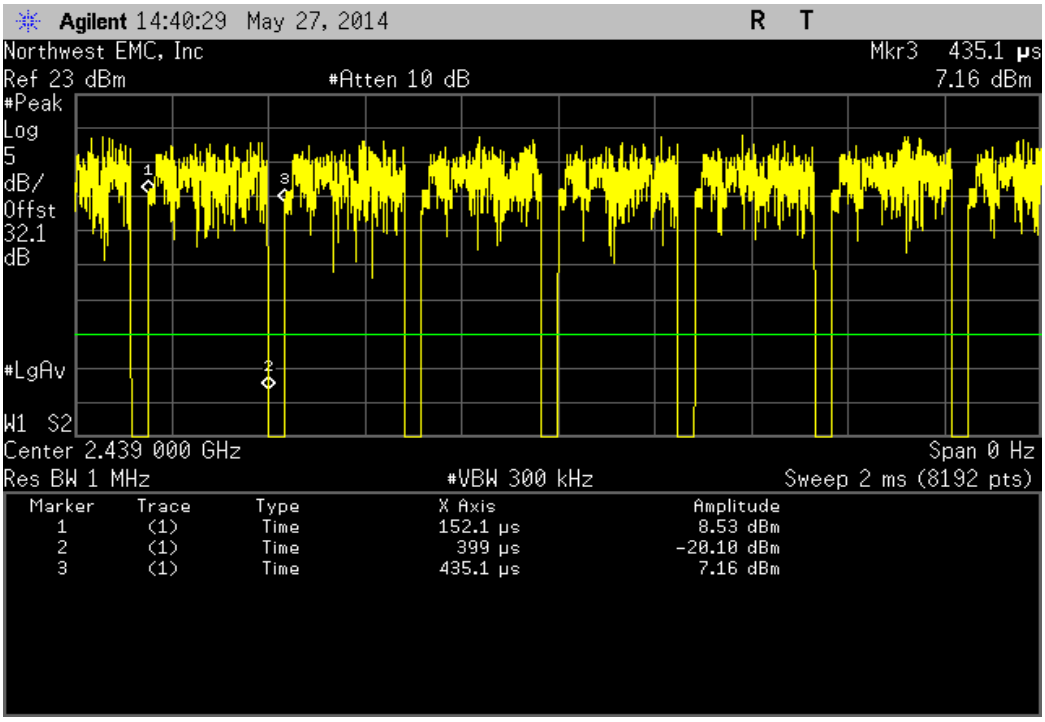
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6, Low Channel 2409 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - SISO

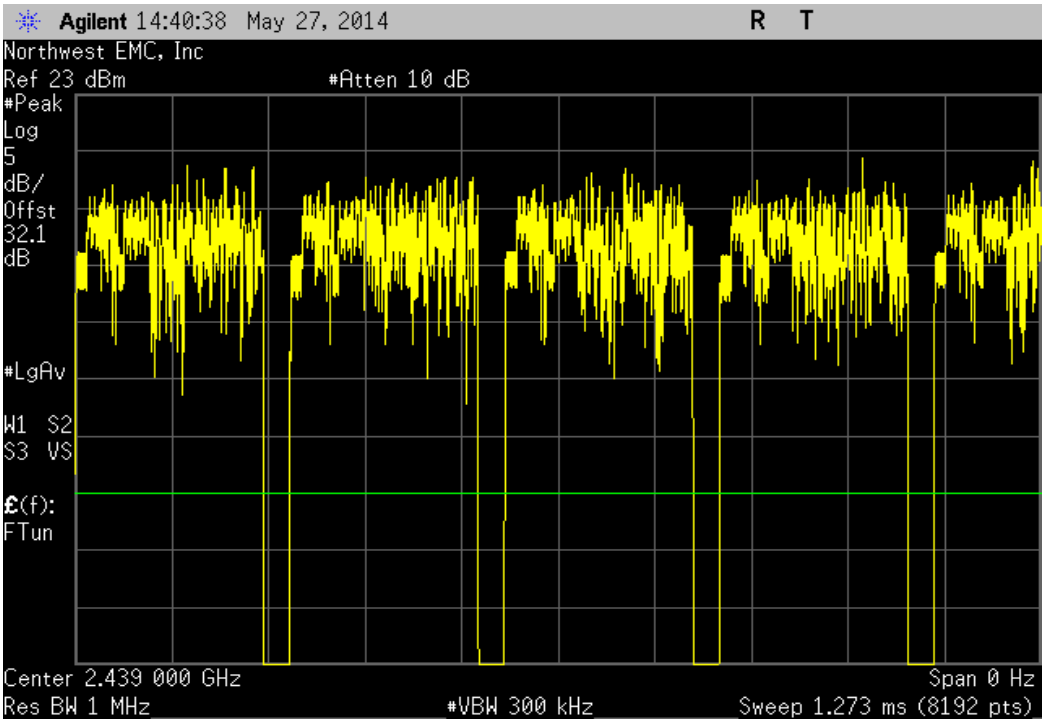
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6, Mid Channel 2439 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	246.9 uS	283 uS	1	87.2	N/A	N/A



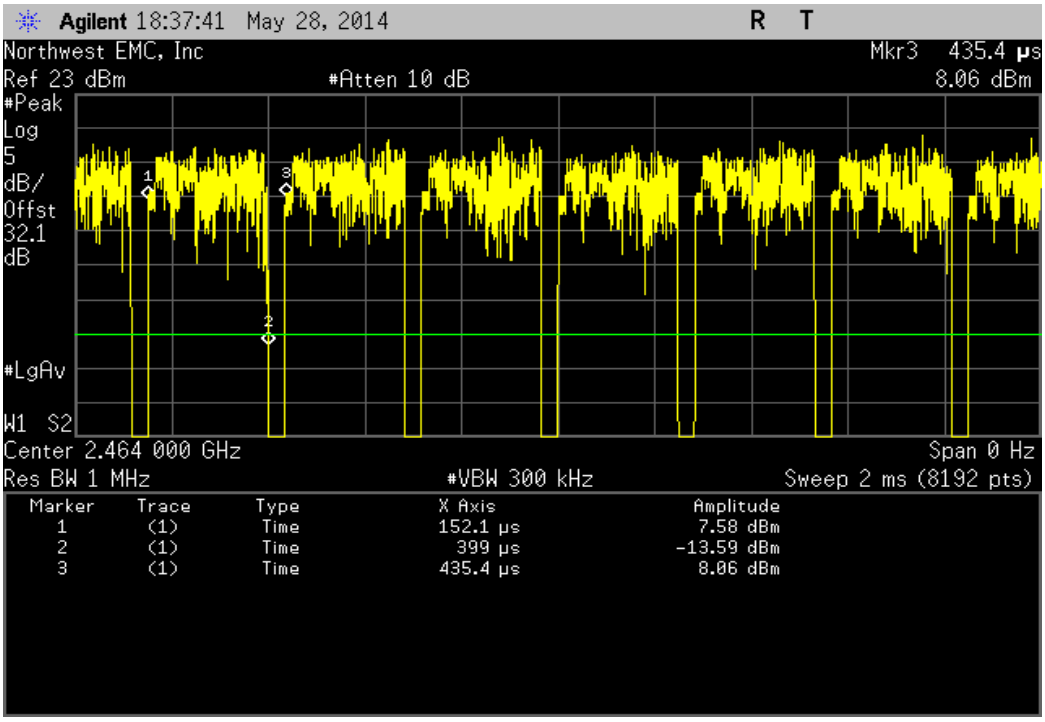
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6, Mid Channel 2439 MHz

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

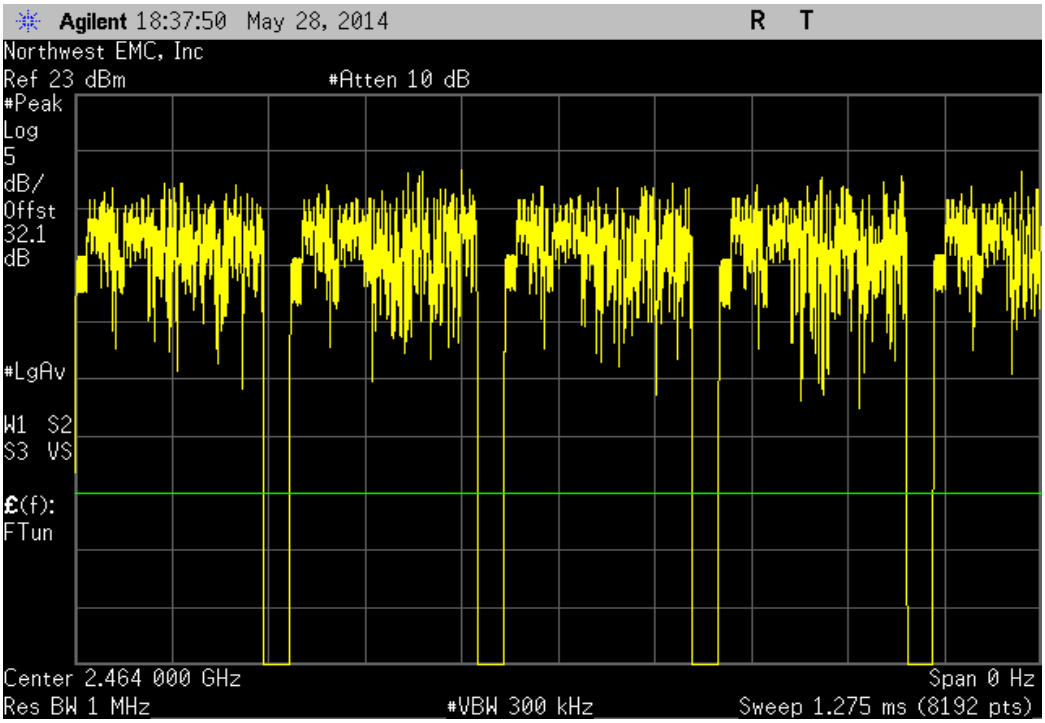


DUTY CYCLE - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6, High Channel 2464 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	246.9 uS	283.3 uS	1	87.2	N/A	N/A



2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6, High Channel 2464 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 2x2 MIMO

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
40GHz DC Block	Miteq	DCB4000	AMD	4/28/2014	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 6 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-6	AUX	7/30/2013	12
Power Meter	Agilent	N1913A	SQR	4/29/2013	36
Power Sensor	Agilent	E9300H	SQO	4/29/2013	36
Spectrum Analyzer	Agilent	E4446A	AAQ	1/21/2014	24
MXG MW Analog Signal Generator 40 Gig	Agilent	N5183A	TID	9/19/2011	36

TEST DESCRIPTION

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.

The measurements were made using a zero span on the spectrum analyzer to see the pulses in the time domain. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used.

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

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

DUTY CYCLE - 2x2 MIMO

EUT:	WavePoint 10e Industrial Wireless Router (W2400-01)	Work Order:	FREW0026
Serial Number:	135268908	Date:	05/29/14
Customer:	FreeWave Technologies, Inc.	Temperature:	22°C
Attendees:	Dean Busch	Humidity:	36%
Project:	None	Barometric Pres.:	1022
Tested by:	Brandon Hobbs, Jared Ison	Power: 12 VDC	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247:2014	ANSI C63.10:2009

COMMENTS

An additional 10dB 5watt attenuater was used inline for all measurements made while under test. Please reference the power levels for this test in the power level table.

DEVIATIONS FROM TEST STANDARD

None

Configuration #	1	Signature

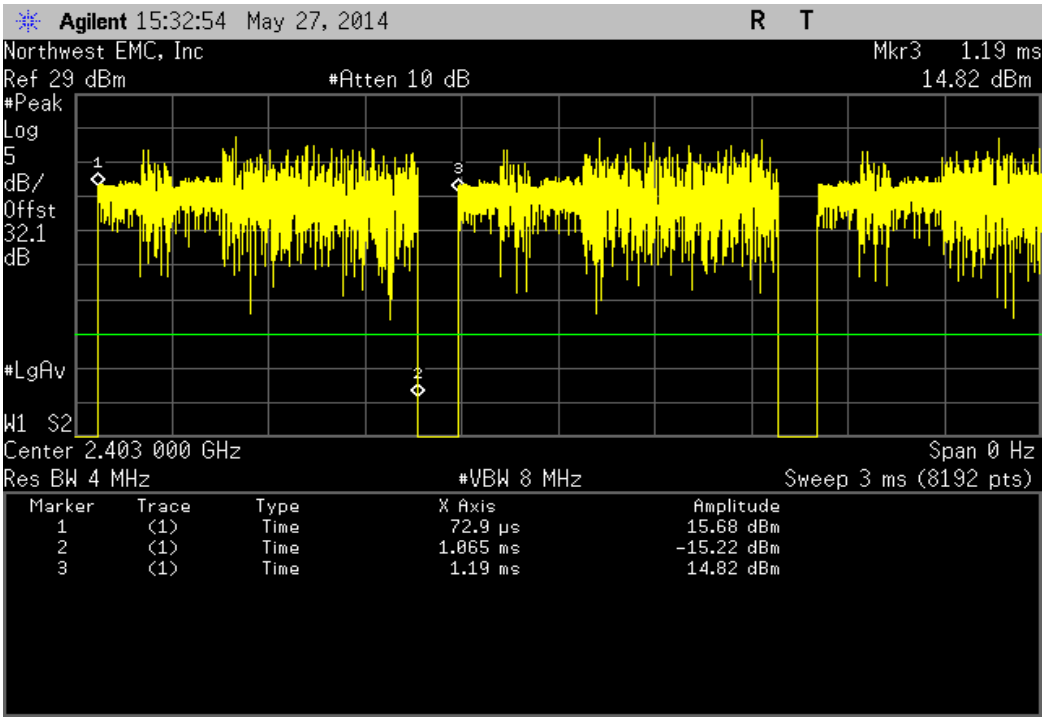
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
Chain 1						
2400 MHz - 2483.5 MHz Band						
2.5MHz Bandwidth						
2x2 Modulation Type, BPSK, Coding Rate, 1/2.						
Low Channel 2403 MHz	991.8 uS	1.117 mS	1	88.8	N/A	N/A
Low Channel 2403 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2435 MHz	991.8 uS	1.117 mS	1	88.8	N/A	N/A
Mid Channel 2435 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2470 MHz	991.8 uS	1.117 mS	1	88.8	N/A	N/A
High Channel 2470 MHz	N/A	N/A	5	N/A	N/A	N/A
Low Channel 2406 MHz	495.9 uS	561.1 uS	1	88.4	N/A	N/A
Low Channel 2406 MHz	N/A	N/A	5	N/A	N/A	N/A
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.						
Low Channel 2403 MHz	992.2 uS	1.117 mS	1	88.8	N/A	N/A
Low Channel 2403 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2435 MHz	992.2 uS	1.117 mS	1	88.8	N/A	N/A
Mid Channel 2435 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2470 MHz	992.2 uS	1.117 mS	1	88.8	N/A	N/A
High Channel 2470 MHz	N/A	N/A	5	N/A	N/A	N/A
5MHz Bandwidth						
2x2 Modulation Type, BPSK, Coding Rate, 1/2.						
Low Channel 2406 MHz	496.1 uS	561.1 uS	1	88.4	N/A	N/A
Low Channel 2406 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2436 MHz	495.9 uS	560.9 uS	1	88.4	N/A	N/A
Mid Channel 2436 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2466 MHz	496.2 uS	561.4 uS	1	88.4	N/A	N/A
High Channel 2466 MHz	N/A	N/A	5	N/A	N/A	N/A
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.						
Low Channel 2406 MHz	495.9 uS	561.1 uS	1	88.4	N/A	N/A
Low Channel 2406 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2436 MHz	496.1 uS	561.1 uS	1	88.4	N/A	N/A
Mid Channel 2436 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2466 MHz	496.1 uS	561.1 uS	1	88.4	N/A	N/A
High Channel 2466 MHz	N/A	N/A	5	N/A	N/A	N/A
10MHz Bandwidth						
2x2 Modulation Type, BPSK, Coding Rate, 1/2.						
Low Channel 2409 MHz	246.9 uS	283 uS	1	87.2	N/A	N/A
Low Channel 2409 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2439 MHz	246.8 uS	283.2 uS	1	87.1	N/A	N/A
Mid Channel 2439 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2464 MHz	247.1 uS	283 uS	1	87.3	N/A	N/A
High Channel 2464 MHz	N/A	N/A	5	N/A	N/A	N/A
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.						
Low Channel 2409 MHz	247.9 uS	283.3 uS	1	87.5	N/A	N/A
Low Channel 2409 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2439 MHz	246.9 uS	283.3 uS	1	87.2	N/A	N/A
Mid Channel 2439 MHz	N/A	N/A	6	N/A	N/A	N/A
High Channel 2464 MHz	246.8 uS	283.2 uS	1	87.1	N/A	N/A
High Channel 2464 MHz	N/A	N/A	5	N/A	N/A	N/A
Chain 2						
2400 MHz - 2483.5 MHz Band						
2.5MHz Bandwidth						
2x2 Modulation Type, BPSK, Coding Rate, 1/2.						
Low Channel 2403 MHz	993.3 uS	1.117 mS	1	88.9	N/A	N/A
Low Channel 2403 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2435 MHz	992.2 uS	1.117 mS	1	88.8	N/A	N/A
Mid Channel 2435 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2470 MHz	992.5 uS	1.117 mS	1	88.8	N/A	N/A
High Channel 2470 MHz	N/A	N/A	5	N/A	N/A	N/A
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.						
Low Channel 2403 MHz	992.2 uS	1.117 mS	1	88.8	N/A	N/A
Low Channel 2403 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2435 MHz	992.5 uS	1.117 mS	1	88.8	N/A	N/A
Mid Channel 2435 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2470 MHz	992.6 uS	1.117 mS	1	88.9	N/A	N/A
High Channel 2470 MHz	N/A	N/A	5	N/A	N/A	N/A

5MHz Bandwidth							
	2x2 Modulation Type, BPSK, Coding Rate, 1/2.						
	Low Channel 2406 MHz	495.7 uS	561.1 uS	1	88.3	N/A	N/A
	Low Channel 2406 MHz	N/A	N/A	5	N/A	N/A	N/A
	Mid Channel 2436 MHz	495.5 uS	561.1 uS	1	88.3	N/A	N/A
	Mid Channel 2436 MHz	N/A	N/A	5	N/A	N/A	N/A
	High Channel 2466 MHz	495.7 uS	561.4 uS	1	88.3	N/A	N/A
	High Channel 2466 MHz	N/A	N/A	5	N/A	N/A	N/A
	2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.						
	Low Channel 2406 MHz	495.9 uS	561.4 uS	1	88.3	N/A	N/A
	Low Channel 2406 MHz	N/A	N/A	5	N/A	N/A	N/A
	Mid Channel 2436 MHz	495.6 uS	561.1 uS	1	88.3	N/A	N/A
	Mid Channel 2436 MHz	N/A	N/A	5	N/A	N/A	N/A
	High Channel 2466 MHz	495.6 uS	561.1 uS	1	88.3	N/A	N/A
	High Channel 2466 MHz	N/A	N/A	5	N/A	N/A	N/A
10MHz Bandwidth							
	2x2 Modulation Type, BPSK, Coding Rate, 1/2.						
	Low Channel 2409 MHz	247.6 uS	283.3 uS	1	87.4	N/A	N/A
	Low Channel 2409 MHz	N/A	N/A	5	N/A	N/A	N/A
	Mid Channel 2439 MHz	247.6 uS	283.3 uS	1	87.4	N/A	N/A
	Mid Channel 2439 MHz	N/A	N/A	5	N/A	N/A	N/A
	High Channel 2464 MHz	247.3 uS	283 uS	1	87.4	N/A	N/A
	High Channel 2464 MHz	N/A	N/A	5	N/A	N/A	N/A
	2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.						
	Low Channel 2409 MHz	247.4 uS	283 uS	1	87.4	N/A	N/A
	Low Channel 2409 MHz	N/A	N/A	5	N/A	N/A	N/A
	Mid Channel 2439 MHz	247.4 uS	283.3 uS	1	87.3	N/A	N/A
	Mid Channel 2439 MHz	N/A	N/A	5	N/A	N/A	N/A
	High Channel 2464 MHz	247.4 uS	283 uS	1	87.4	N/A	N/A
	High Channel 2464 MHz	N/A	N/A	5	N/A	N/A	N/A

DUTY CYCLE - 2x2 MIMO

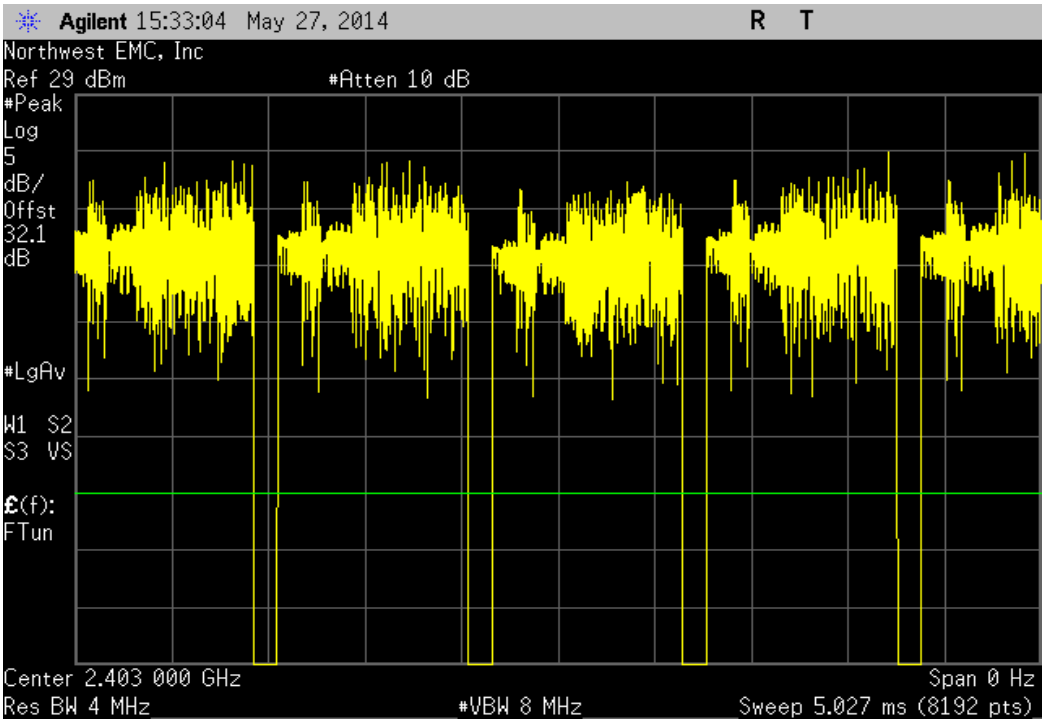
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2403 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	991.8 uS	1.117 mS	1	88.8	N/A	N/A



Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2403 MHz

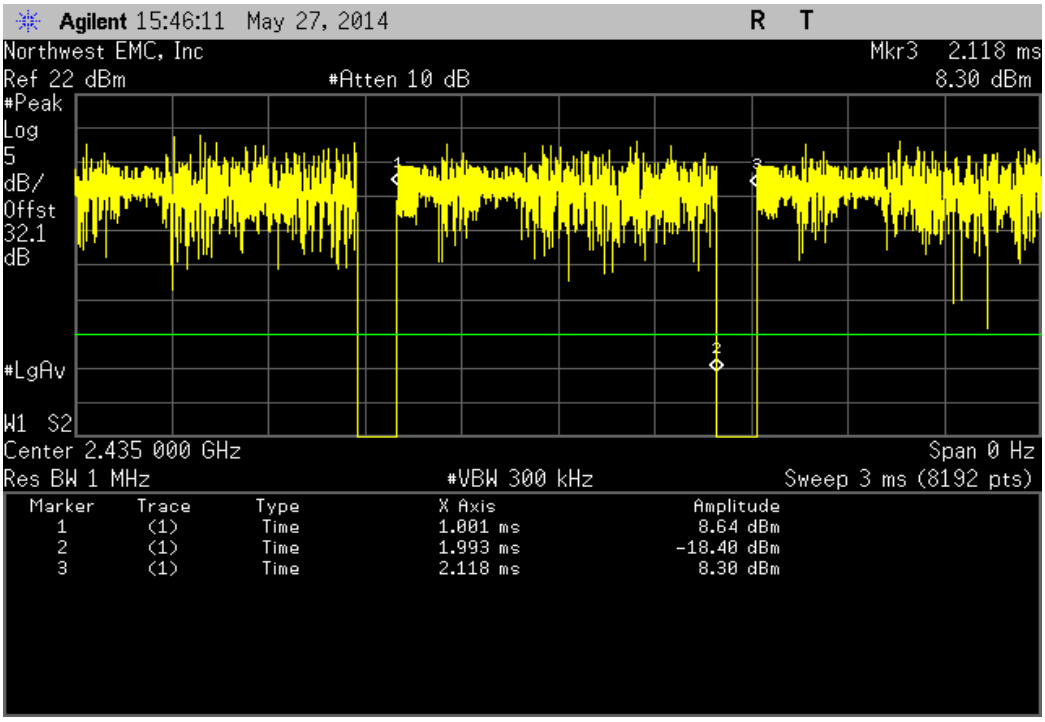
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 2x2 MIMO

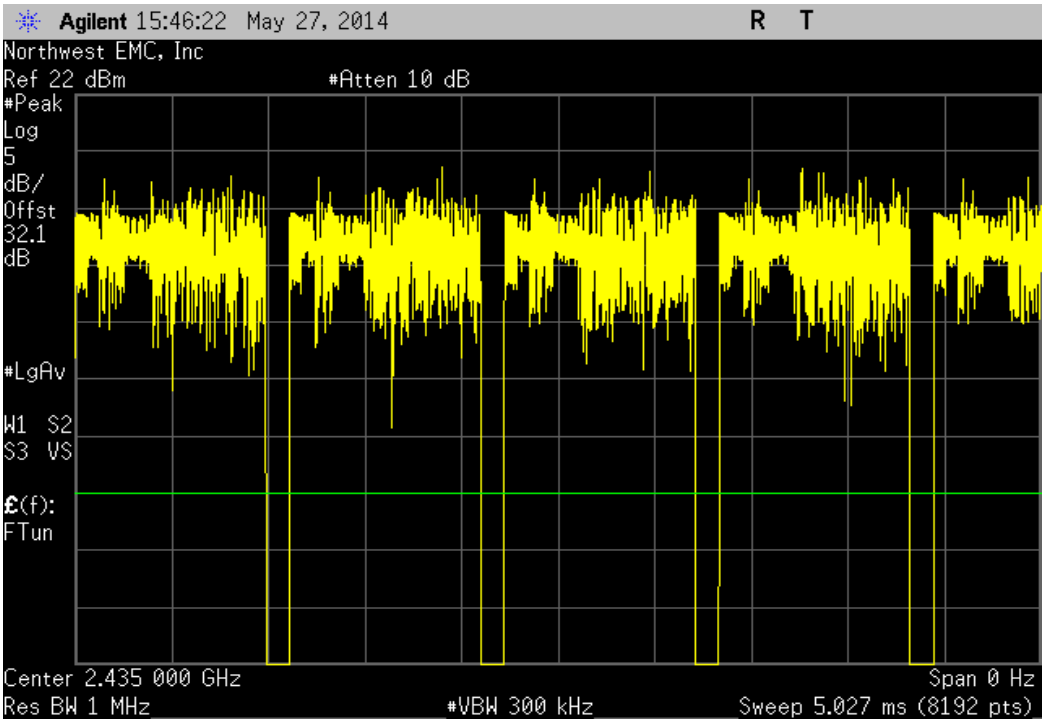
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2435 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	991.8 uS	1.117 mS	1	88.8	N/A	N/A



Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2435 MHz

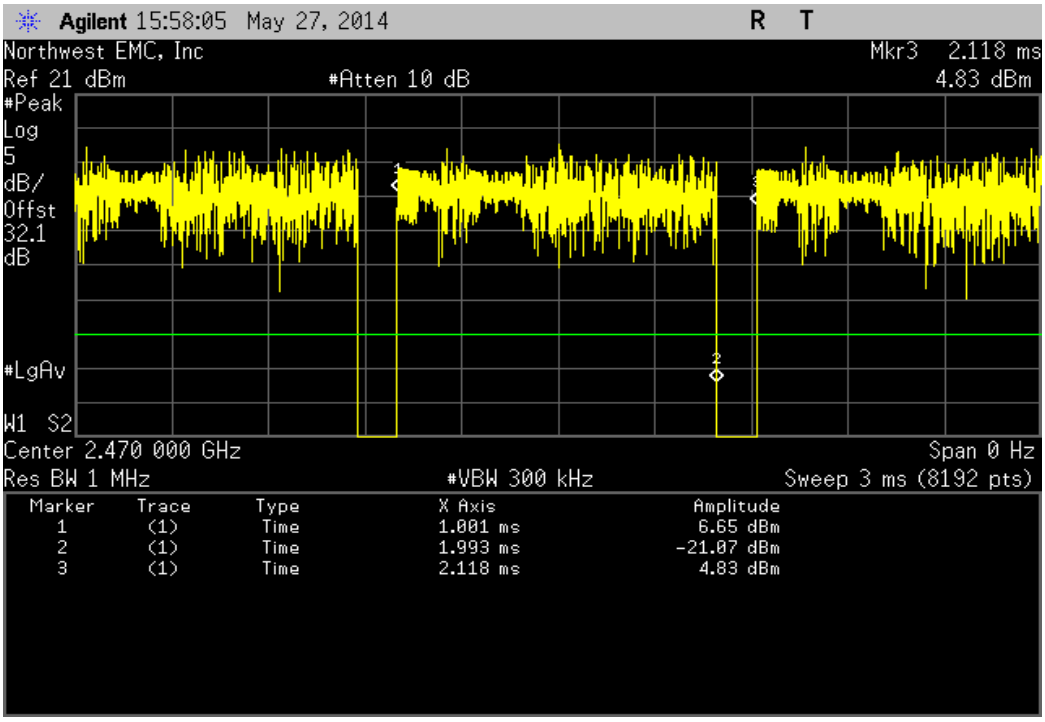
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 2x2 MIMO

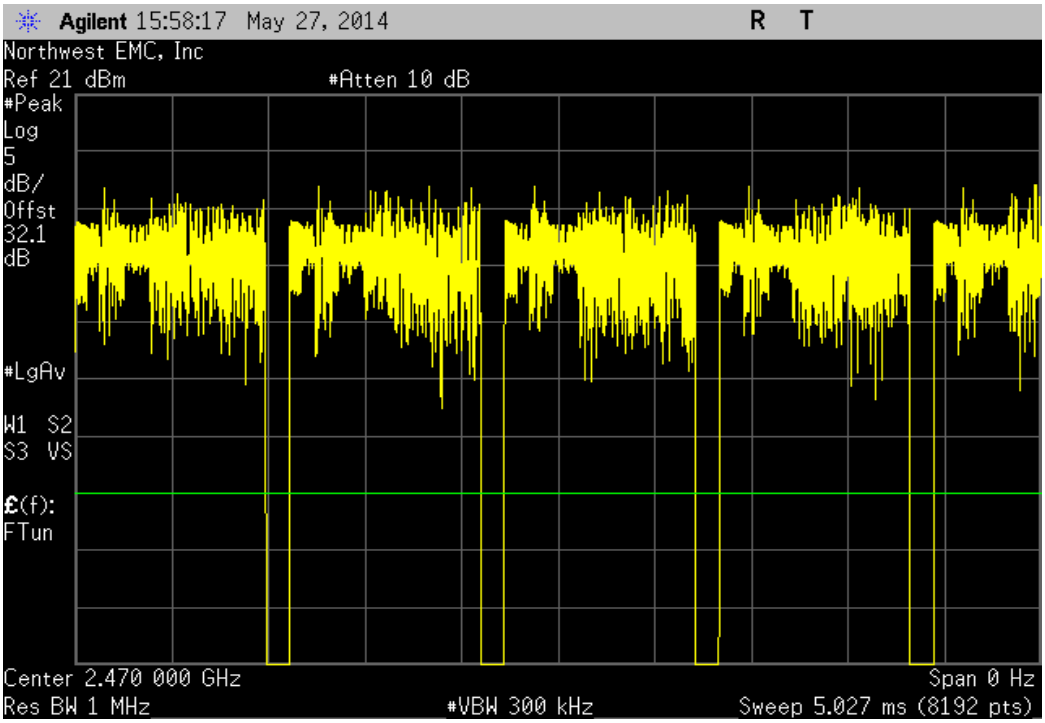
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2470 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	991.8 uS	1.117 mS	1	88.8	N/A	N/A



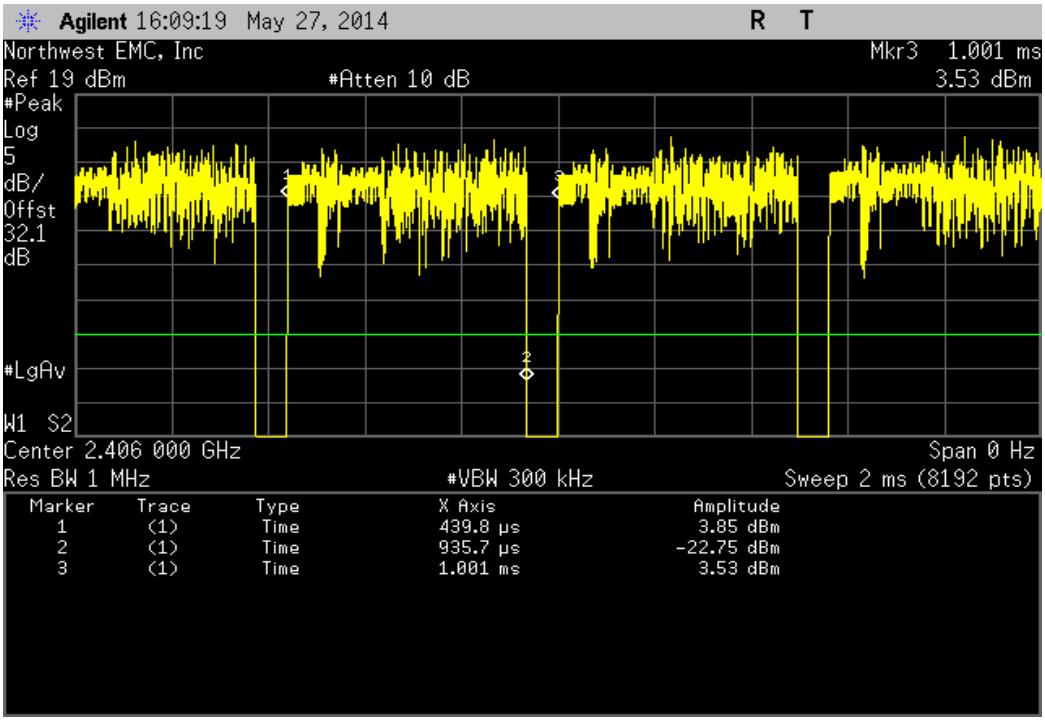
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2470 MHz

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

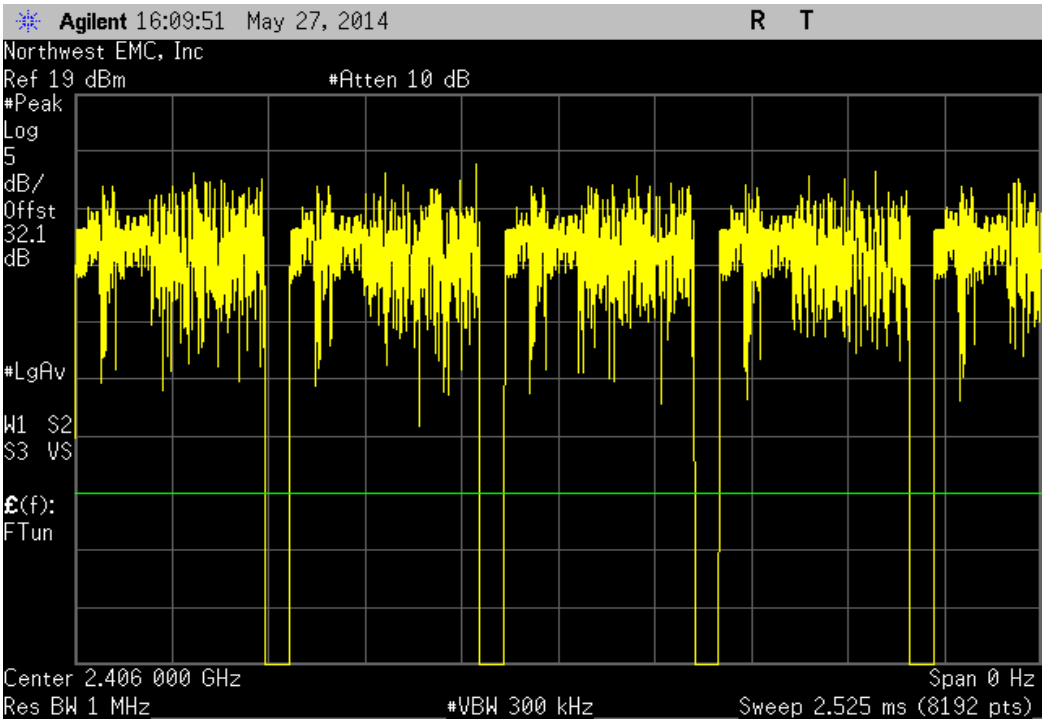


DUTY CYCLE - 2x2 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2406 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	495.9 uS	561.1 uS	1	88.4	N/A	N/A



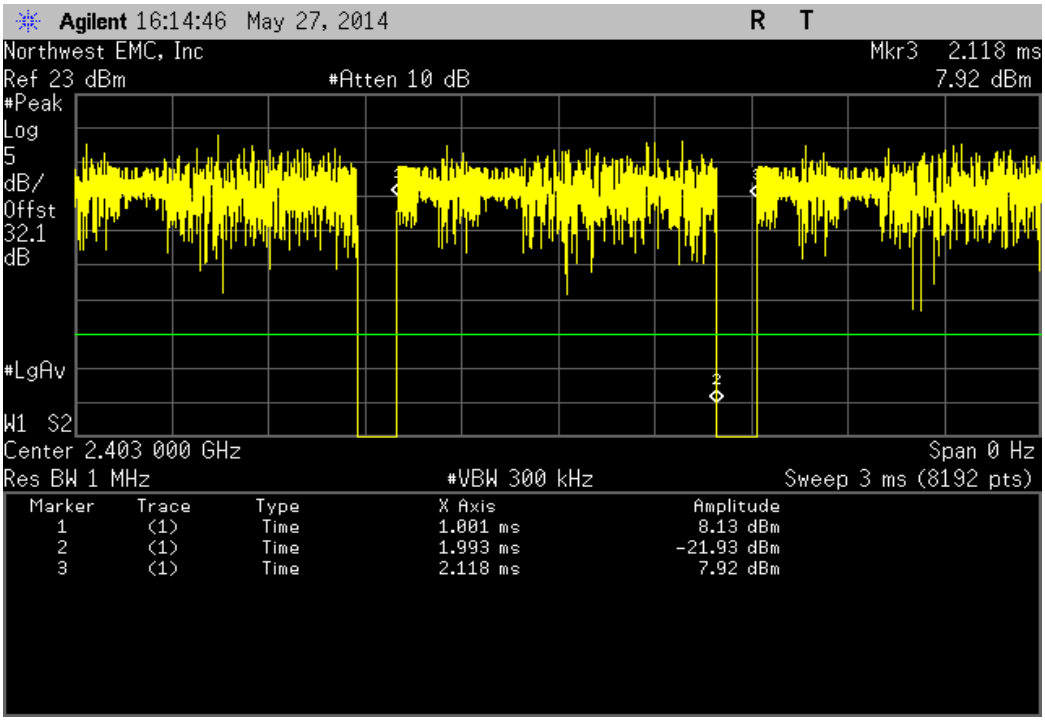
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2406 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 2x2 MIMO

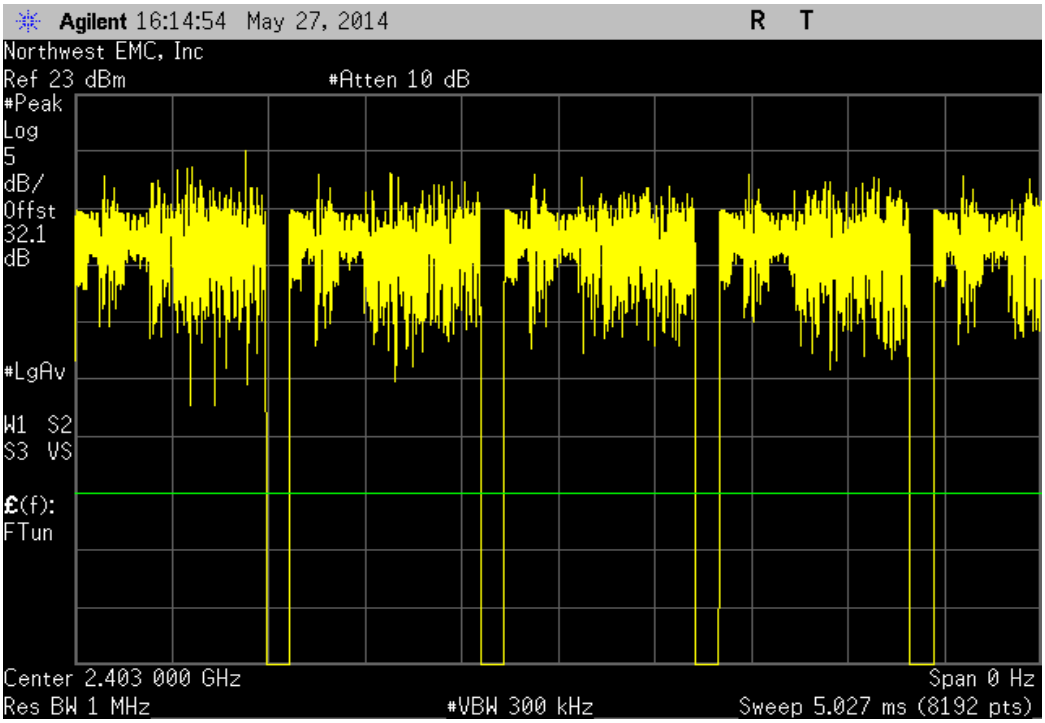
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2403 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	992.2 uS	1.117 mS	1	88.8	N/A	N/A



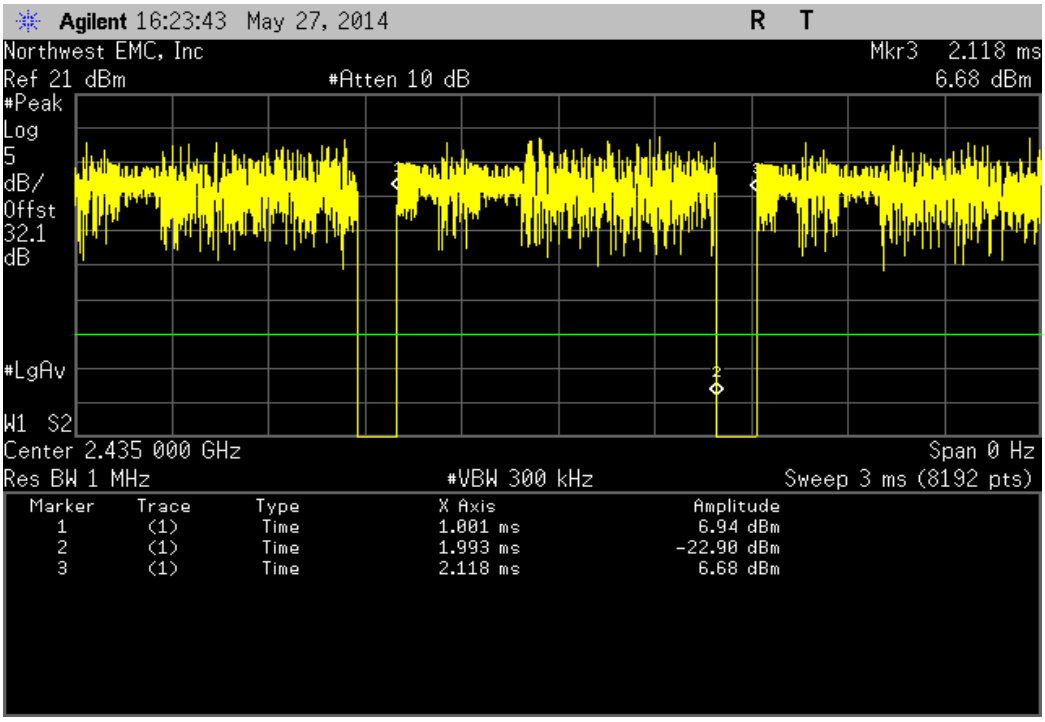
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2403 MHz

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

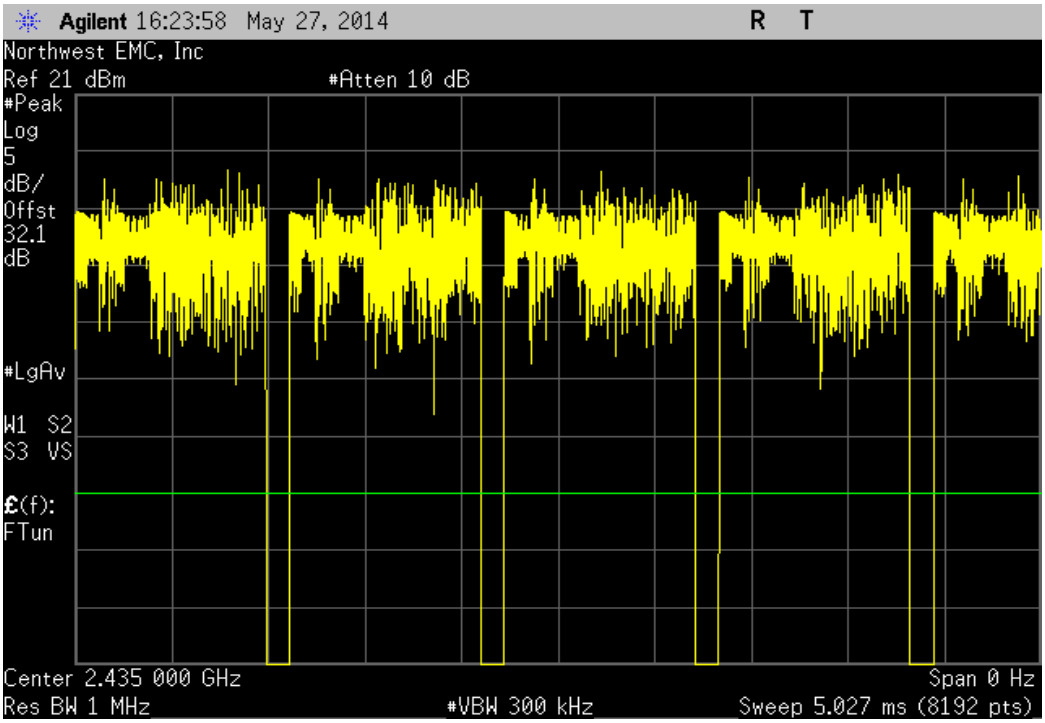


DUTY CYCLE - 2x2 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2435 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	992.2 uS	1.117 mS	1	88.8	N/A	N/A

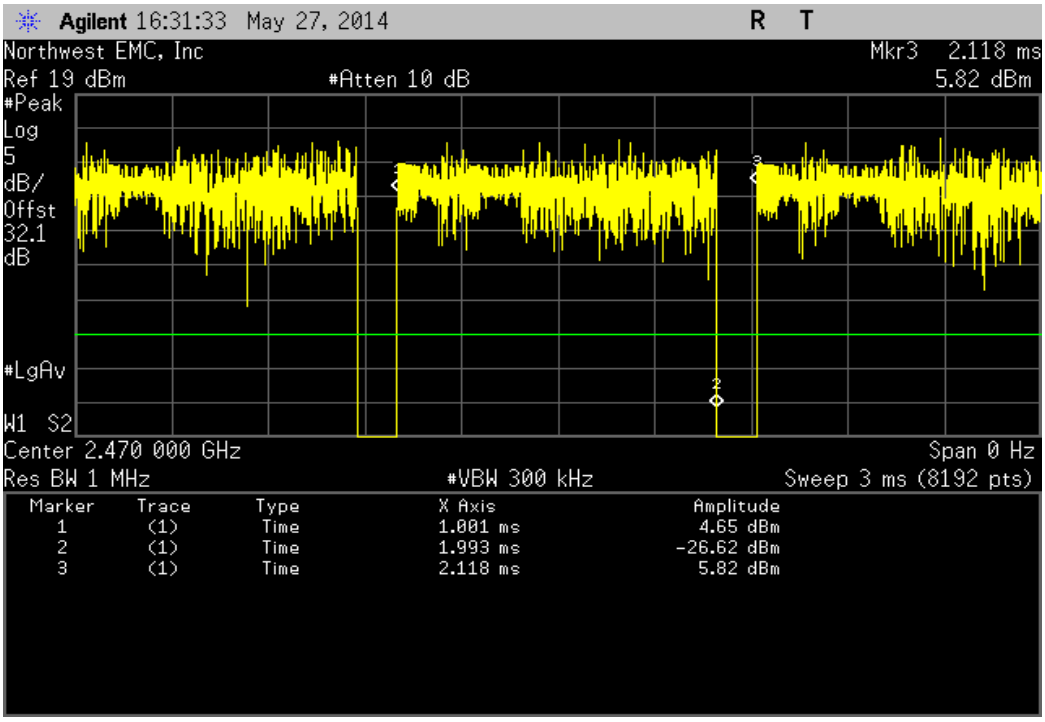


Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2435 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

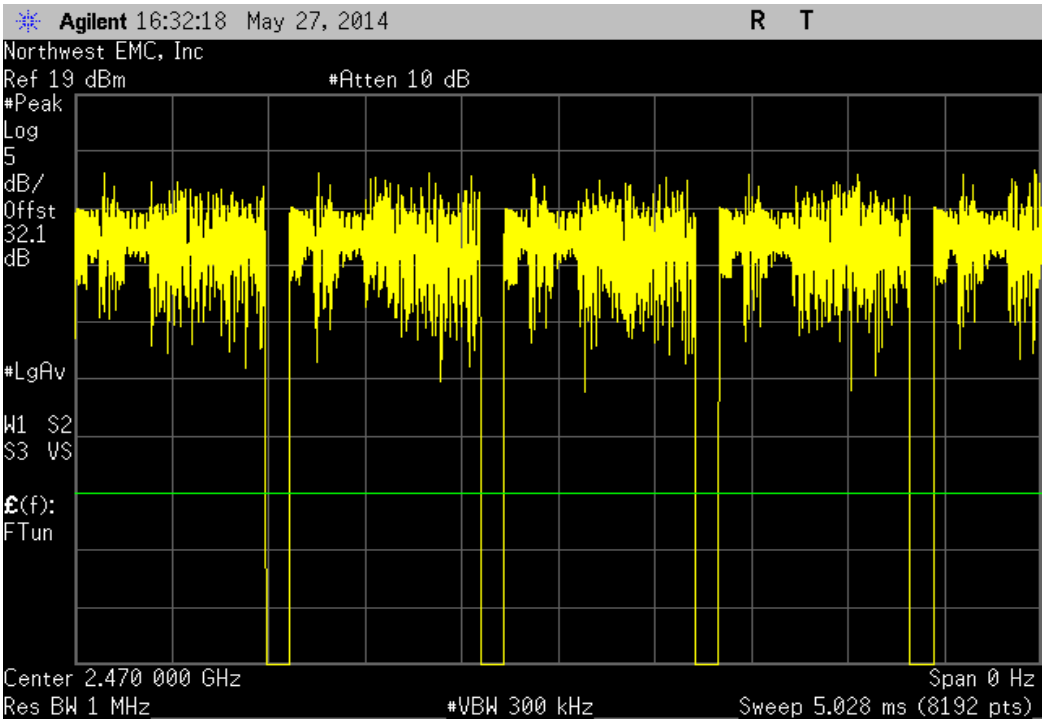


DUTY CYCLE - 2x2 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2470 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	992.2 uS	1.117 mS	1	88.8	N/A	N/A

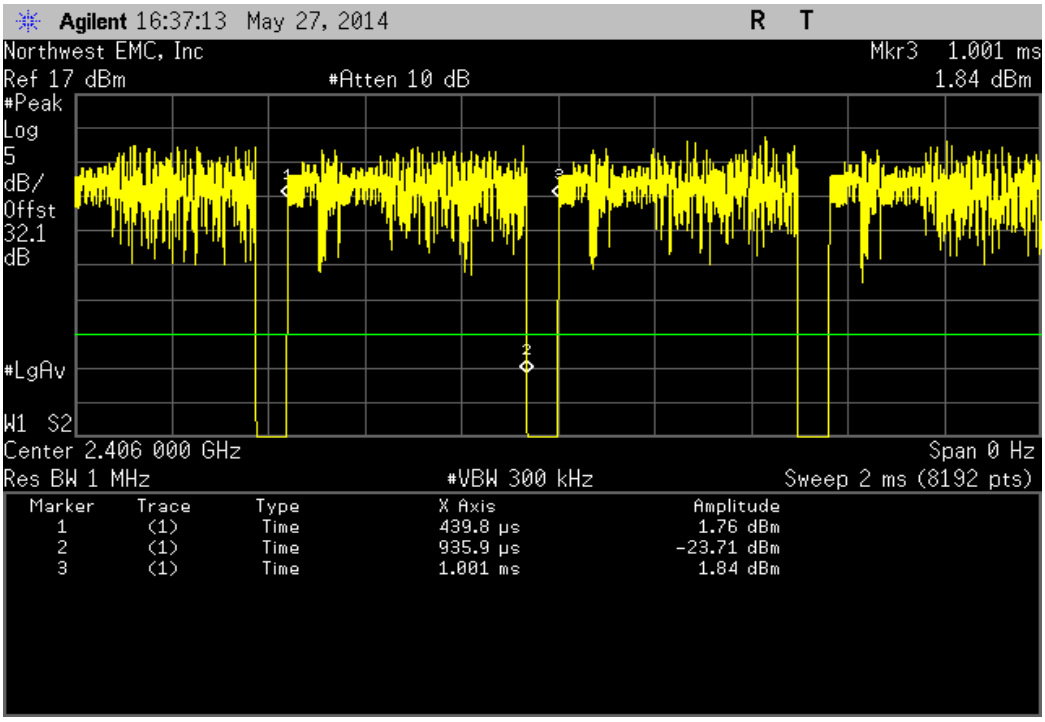


Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2470 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

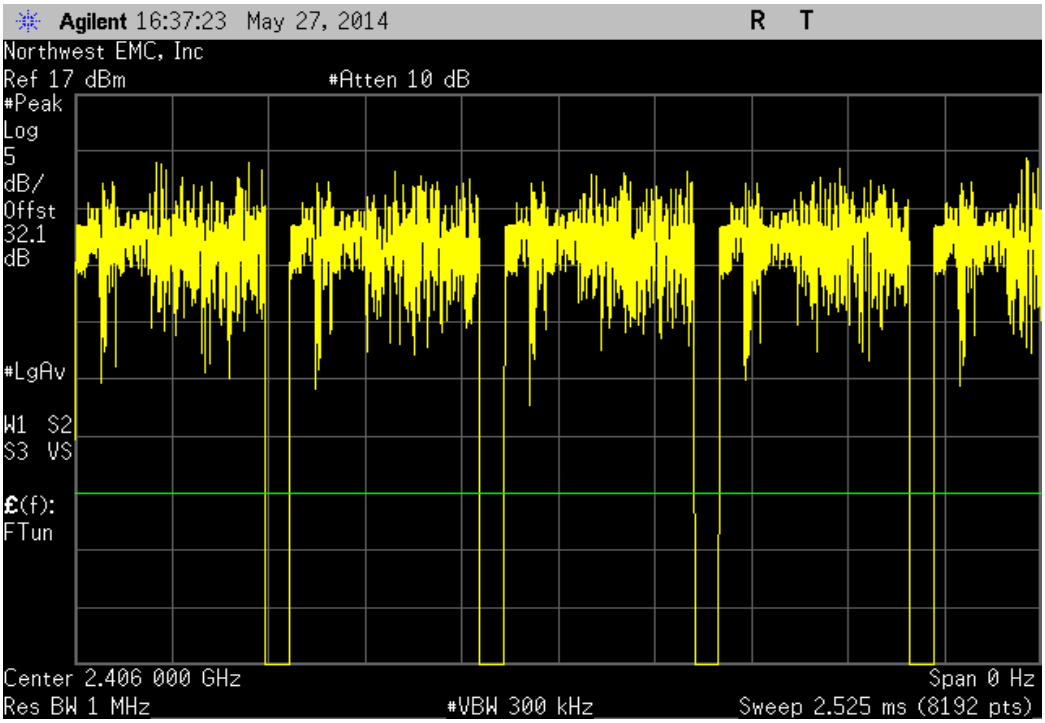


DUTY CYCLE - 2x2 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2406 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	496.1 uS	561.1 uS	1	88.4	N/A	N/A

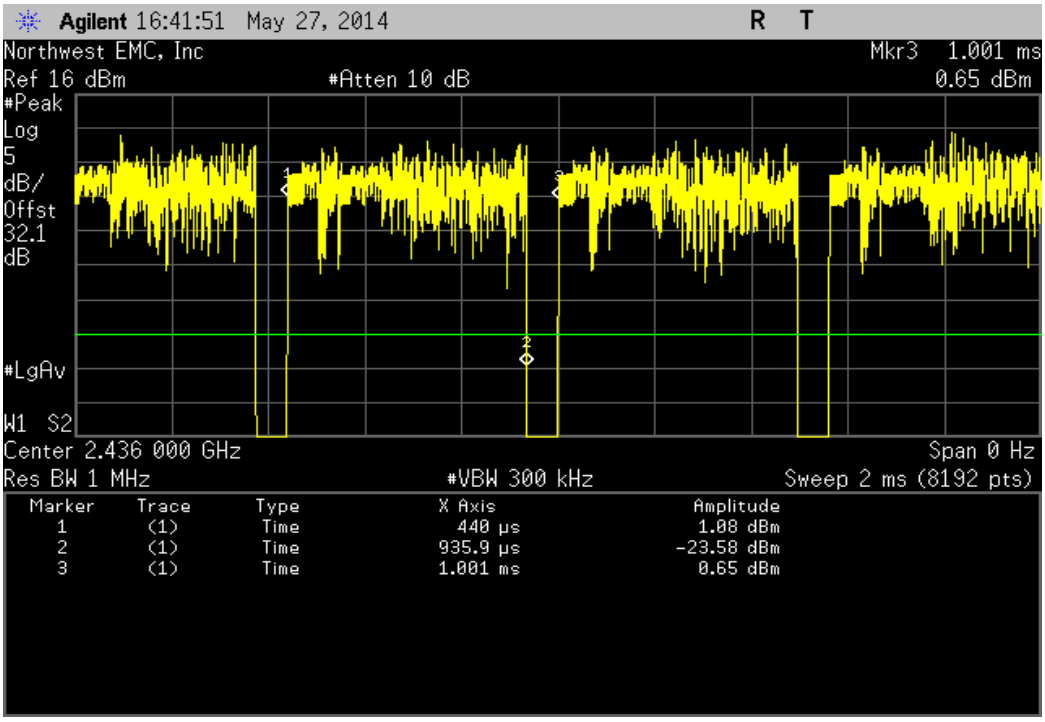


Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2406 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

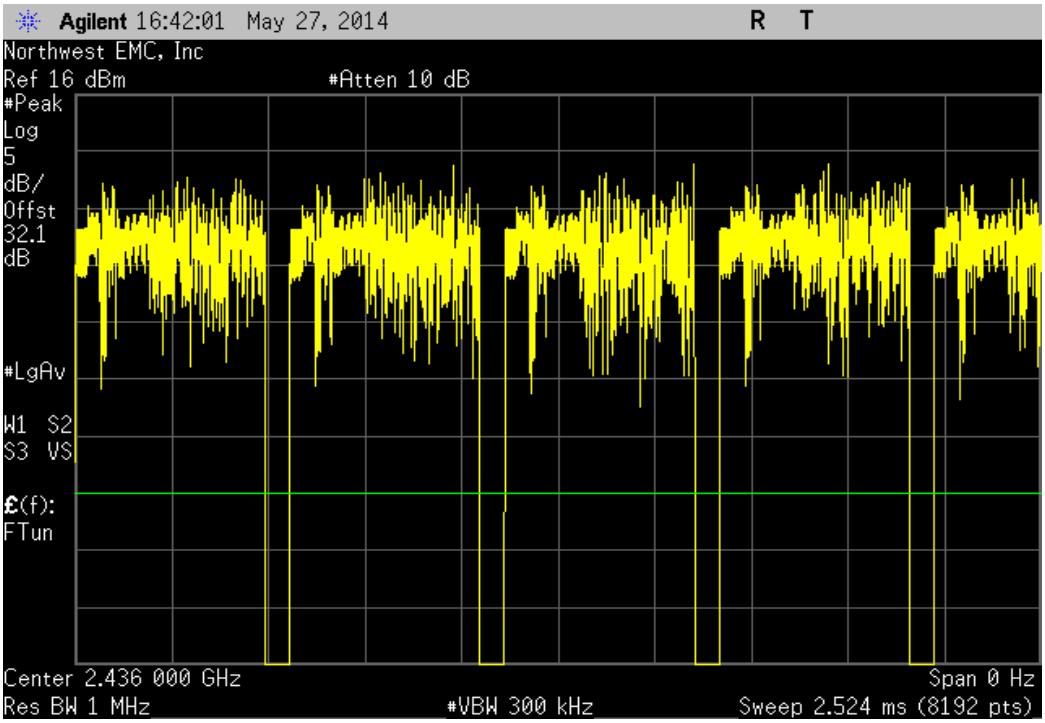


DUTY CYCLE - 2x2 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2436 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	495.9 uS	560.9 uS	1	88.4	N/A	N/A

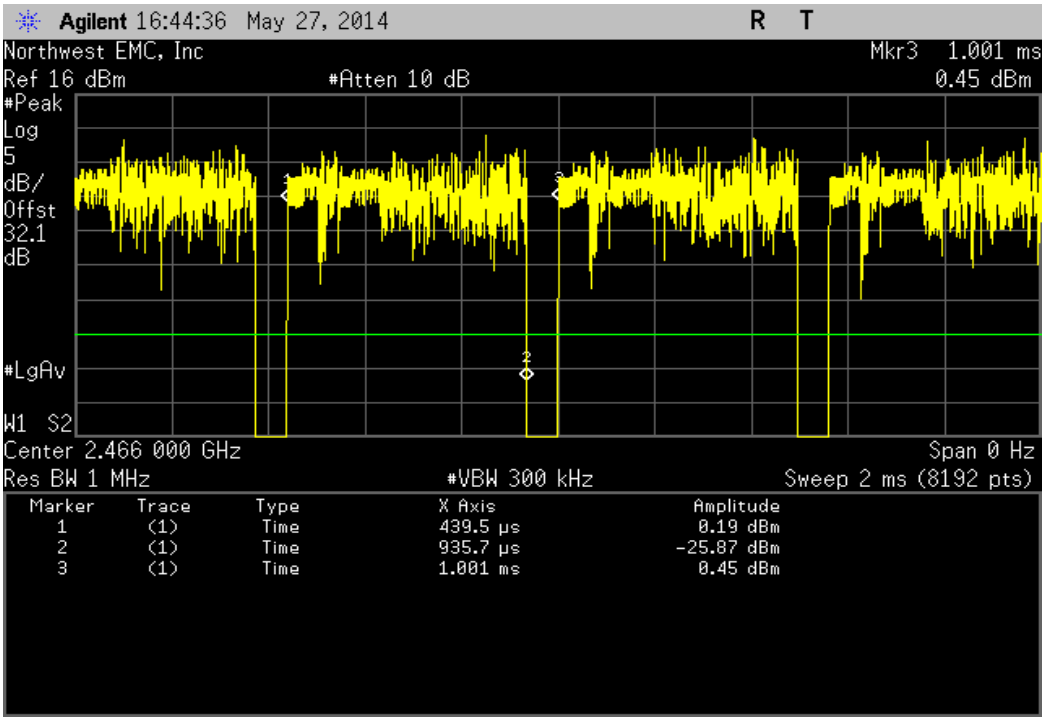


Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2436 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

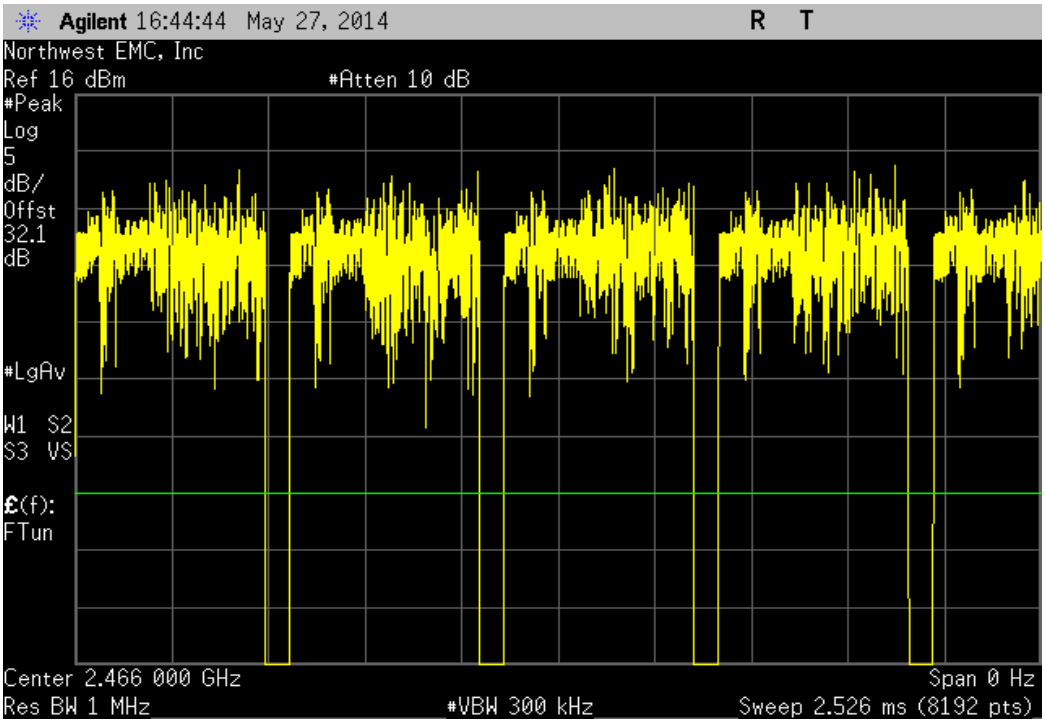


DUTY CYCLE - 2x2 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2466 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	496.2 uS	561.4 uS	1	88.4	N/A	N/A

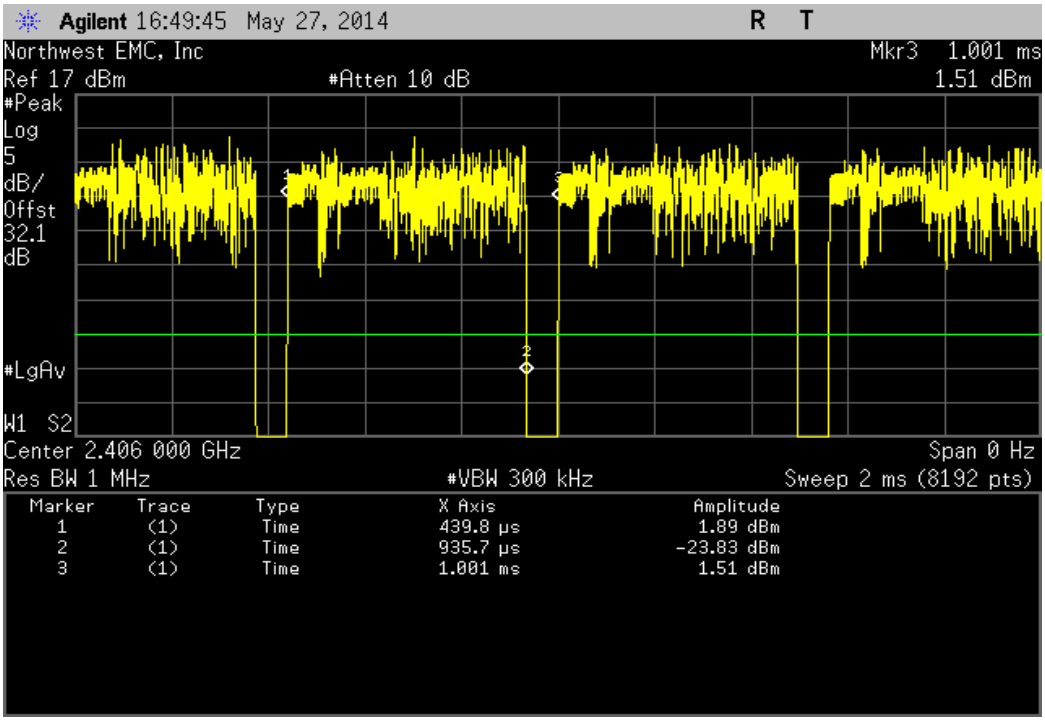


Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2466 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

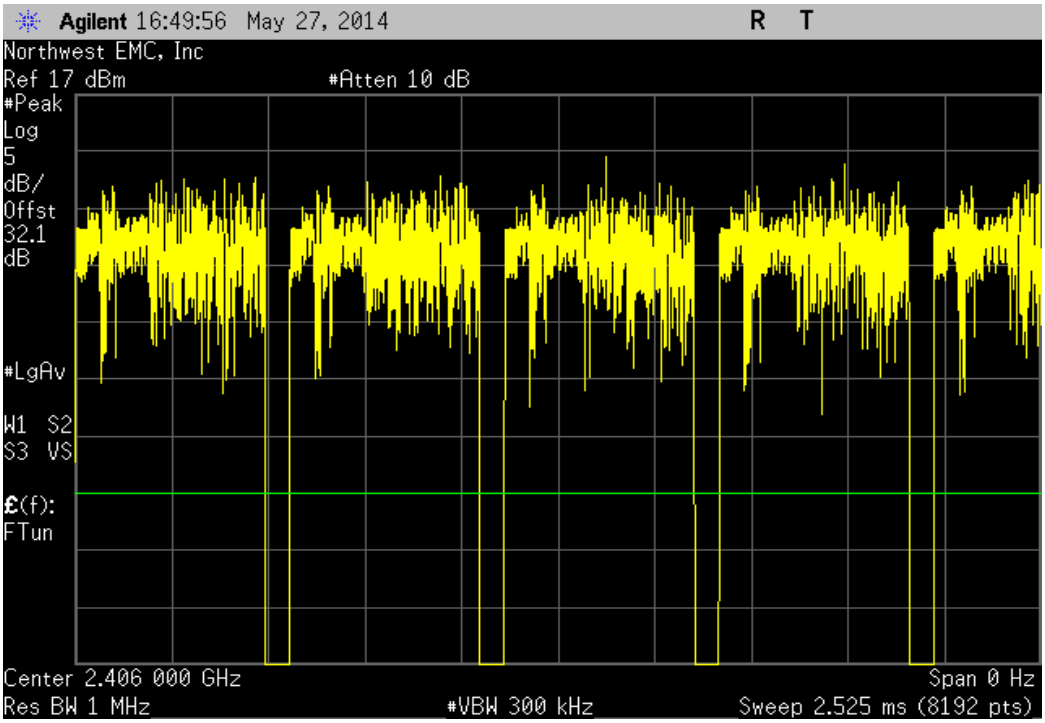


DUTY CYCLE - 2x2 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2406 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	495.9 uS	561.1 uS	1	88.4	N/A	N/A

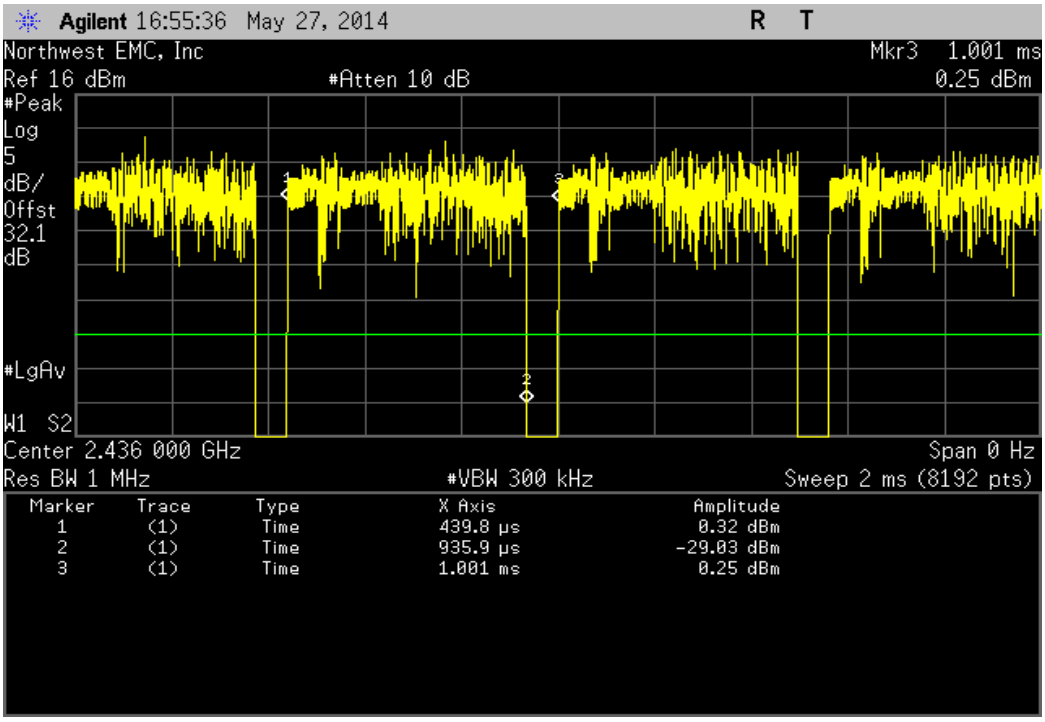


Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2406 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

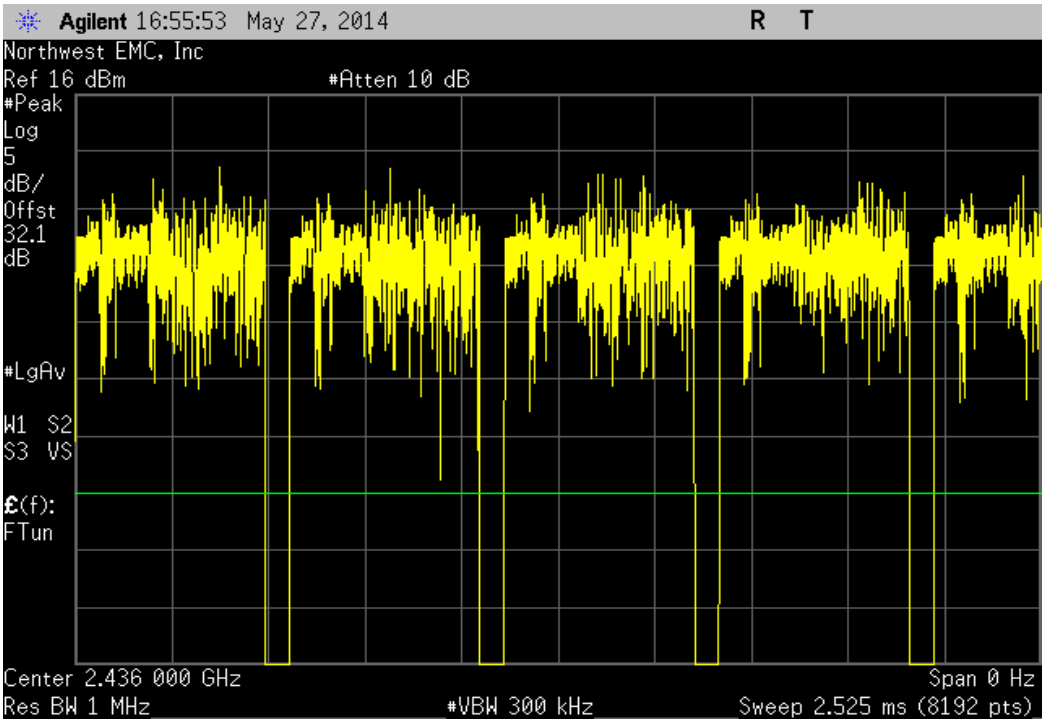


DUTY CYCLE - 2x2 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2436 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	496.1 uS	561.1 uS	1	88.4	N/A	N/A

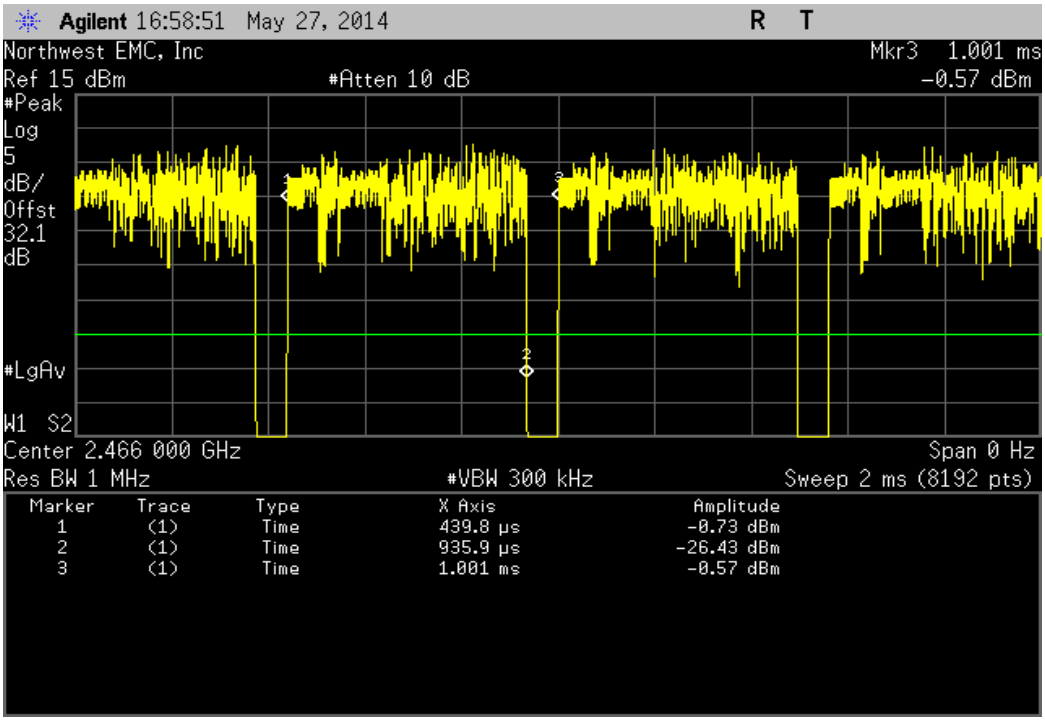


Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2436 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

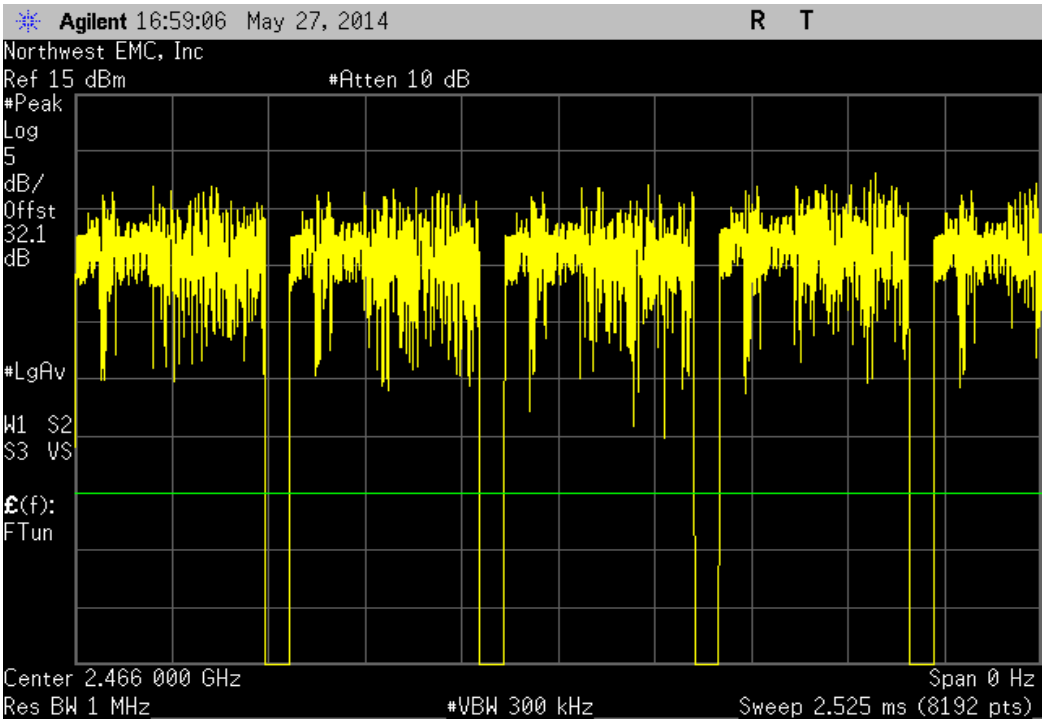


DUTY CYCLE - 2x2 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2466 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	496.1 uS	561.1 uS	1	88.4	N/A	N/A

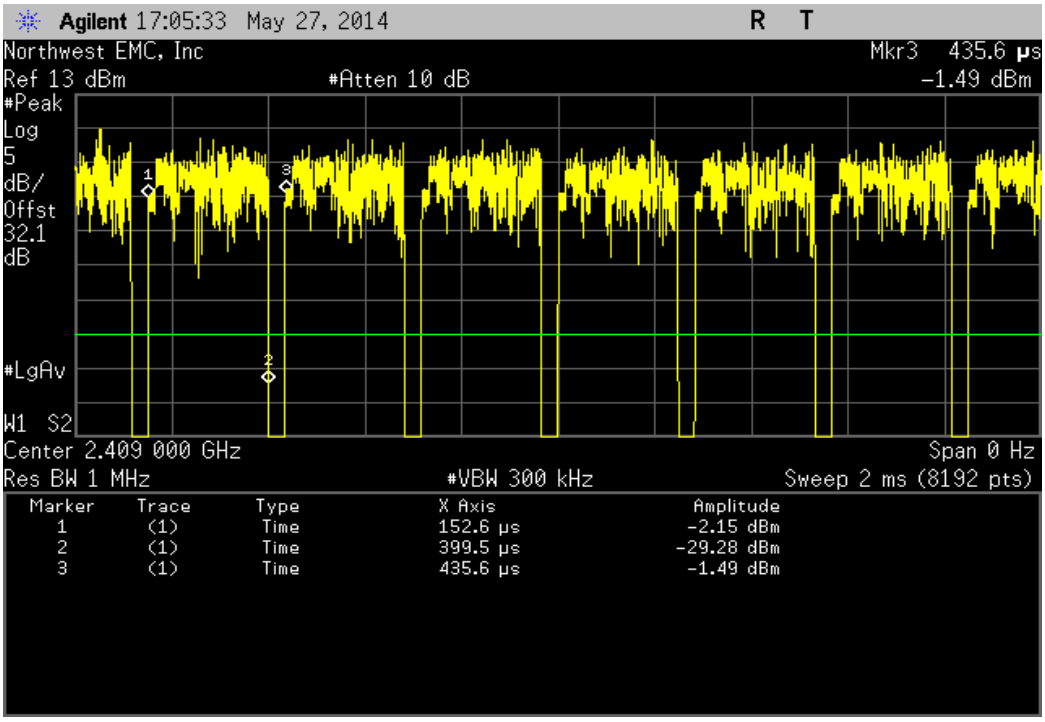


Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2466 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

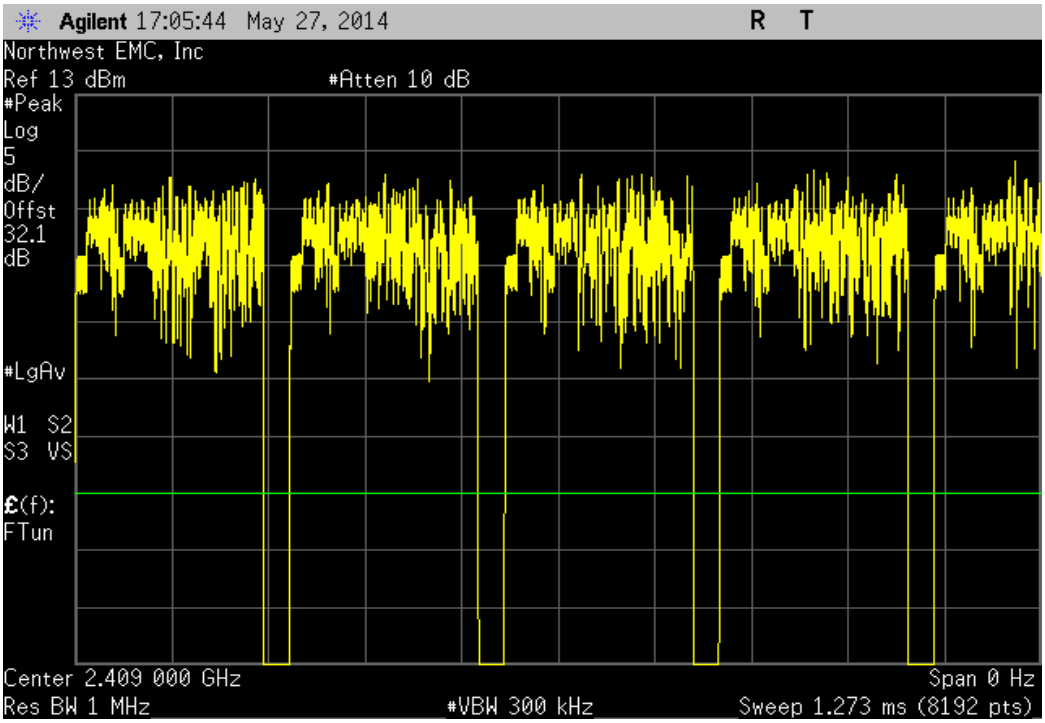


DUTY CYCLE - 2x2 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2409 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	246.9 uS	283 uS	1	87.2	N/A	N/A



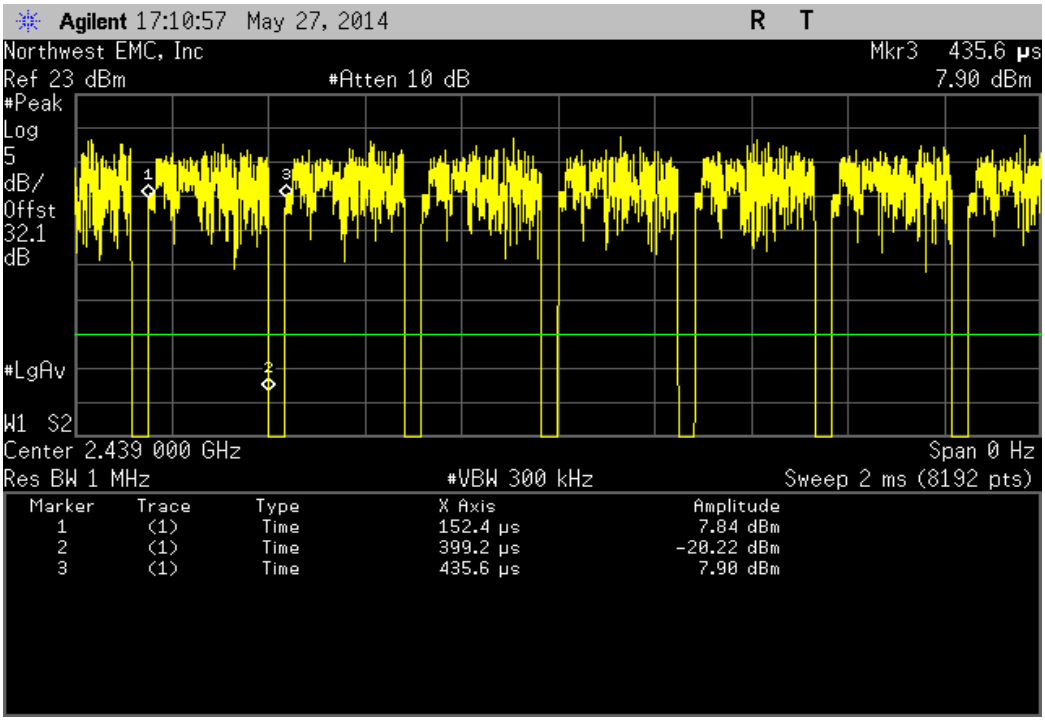
Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2409 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 2x2 MIMO

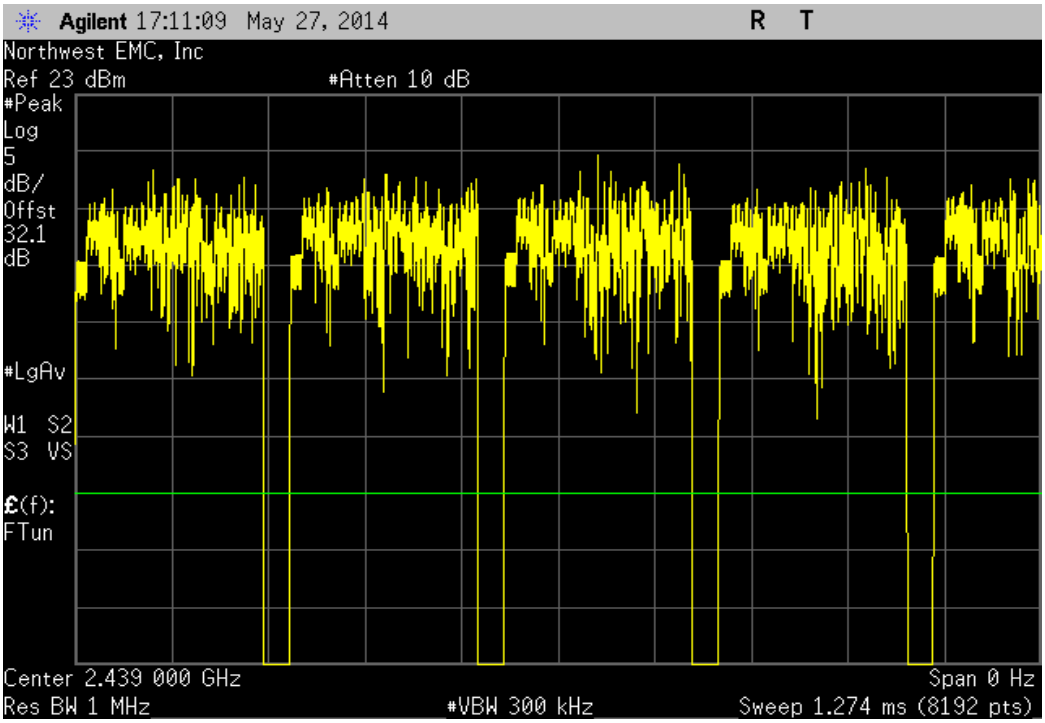
Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2439 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	246.8 uS	283.2 uS	1	87.1	N/A	N/A



Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2439 MHz

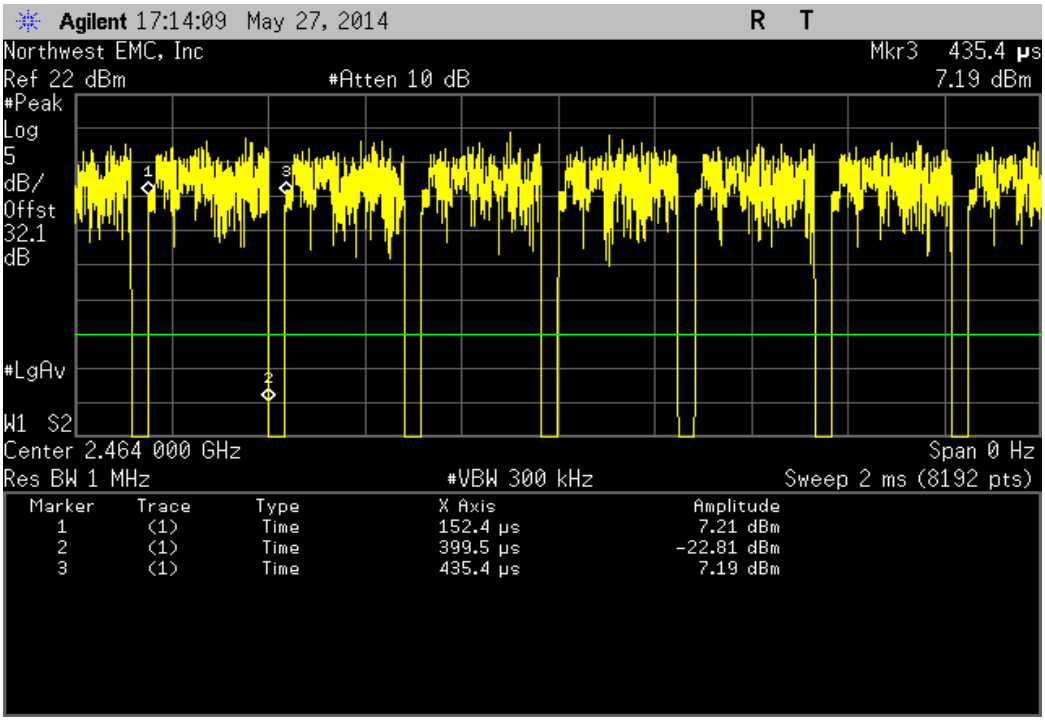
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 2x2 MIMO

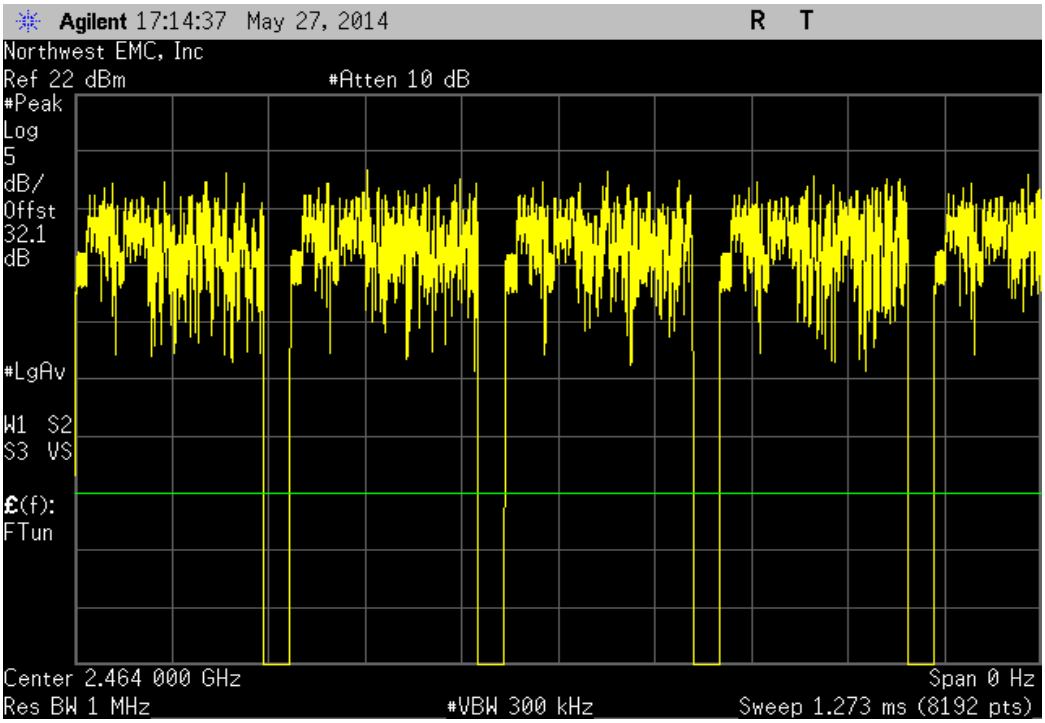
Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2464 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	247.1 uS	283 uS	1	87.3	N/A	N/A



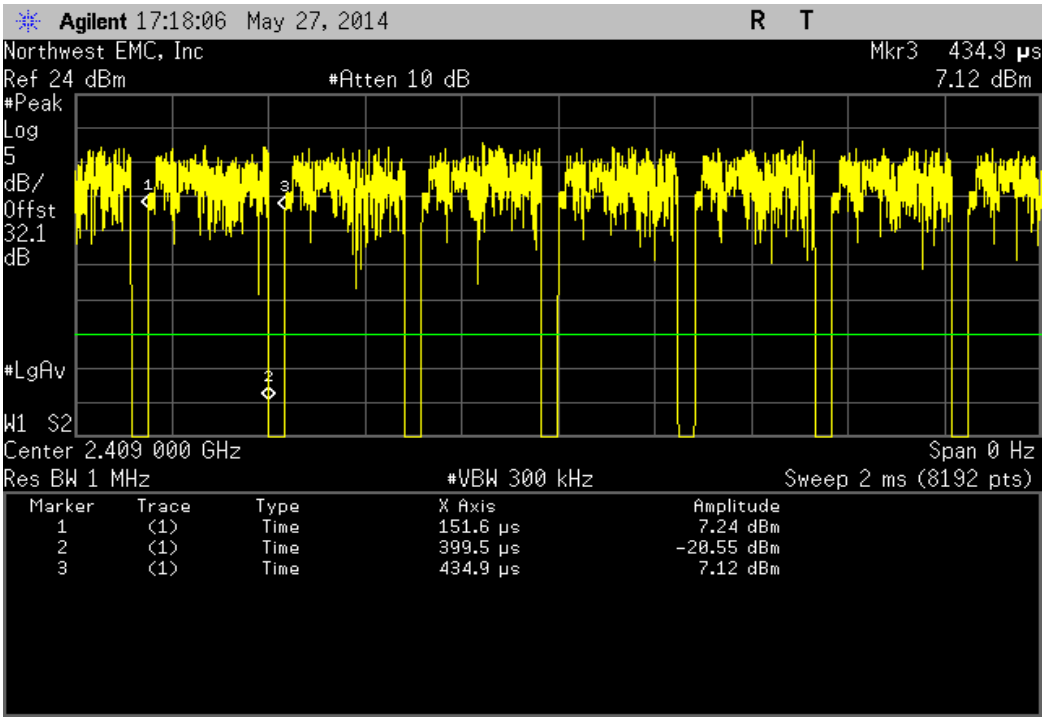
Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2464 MHz

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

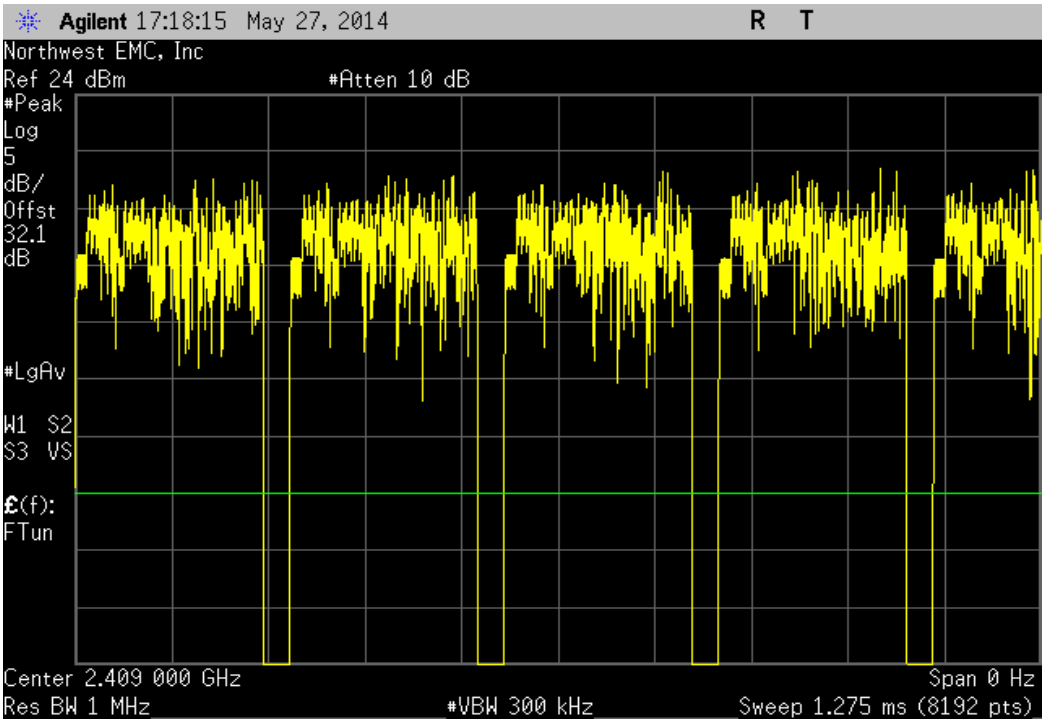


DUTY CYCLE - 2x2 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2409 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	247.9 uS	283.3 uS	1	87.5	N/A	N/A



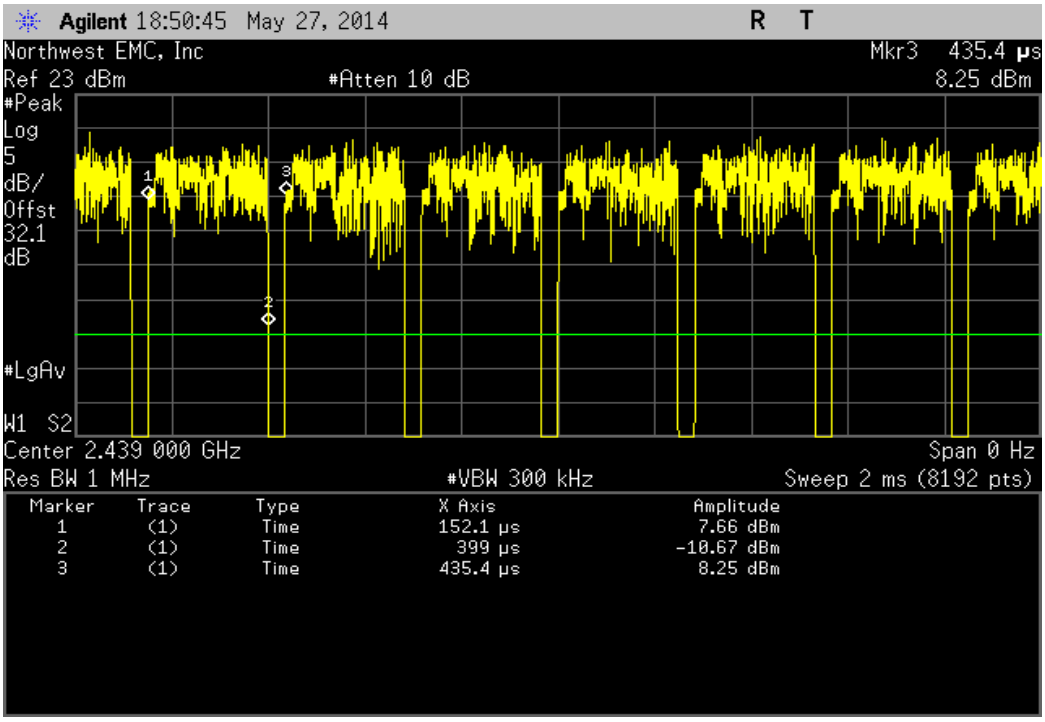
Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2409 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 2x2 MIMO

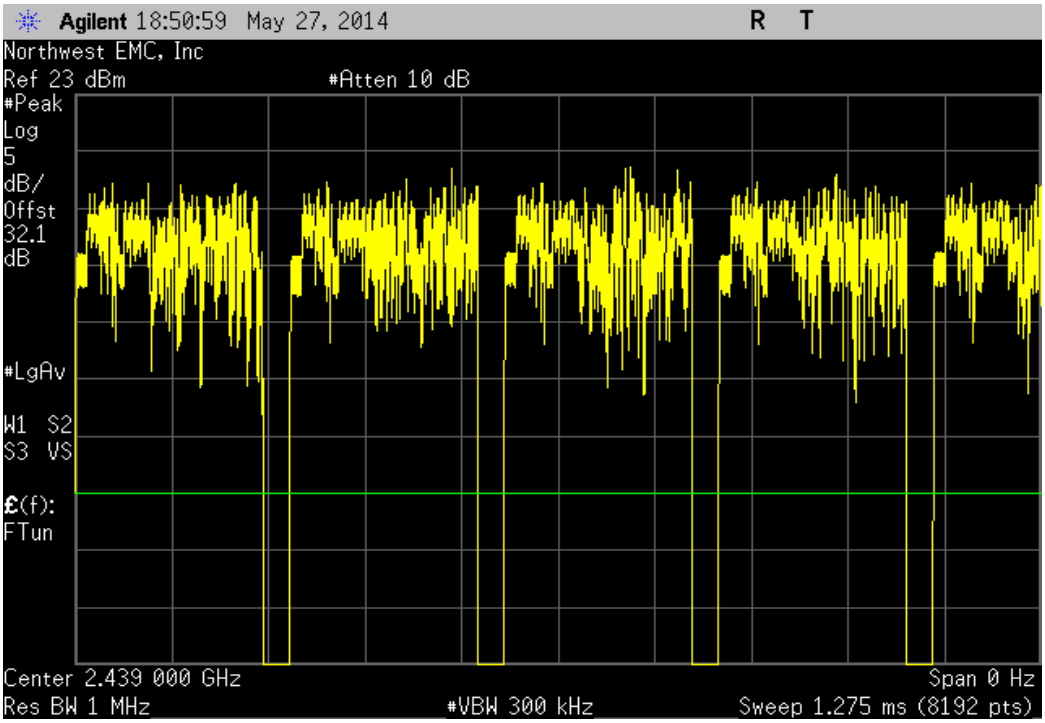
Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2439 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	246.9 uS	283.3 uS	1	87.2	N/A	N/A



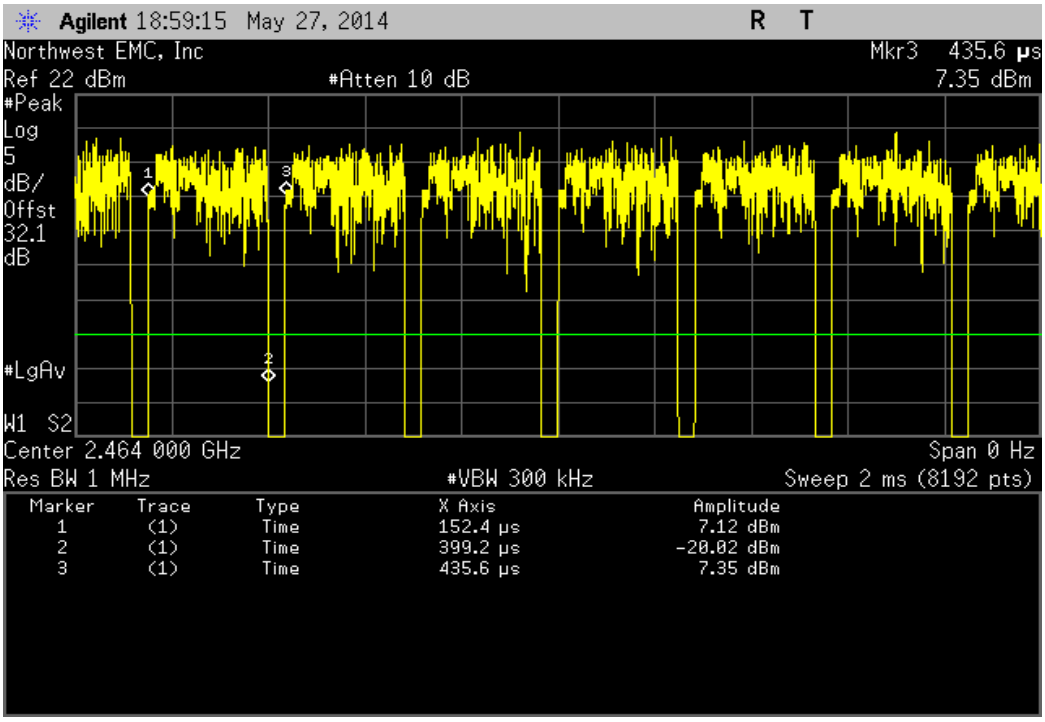
Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2439 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	6	N/A	N/A	N/A

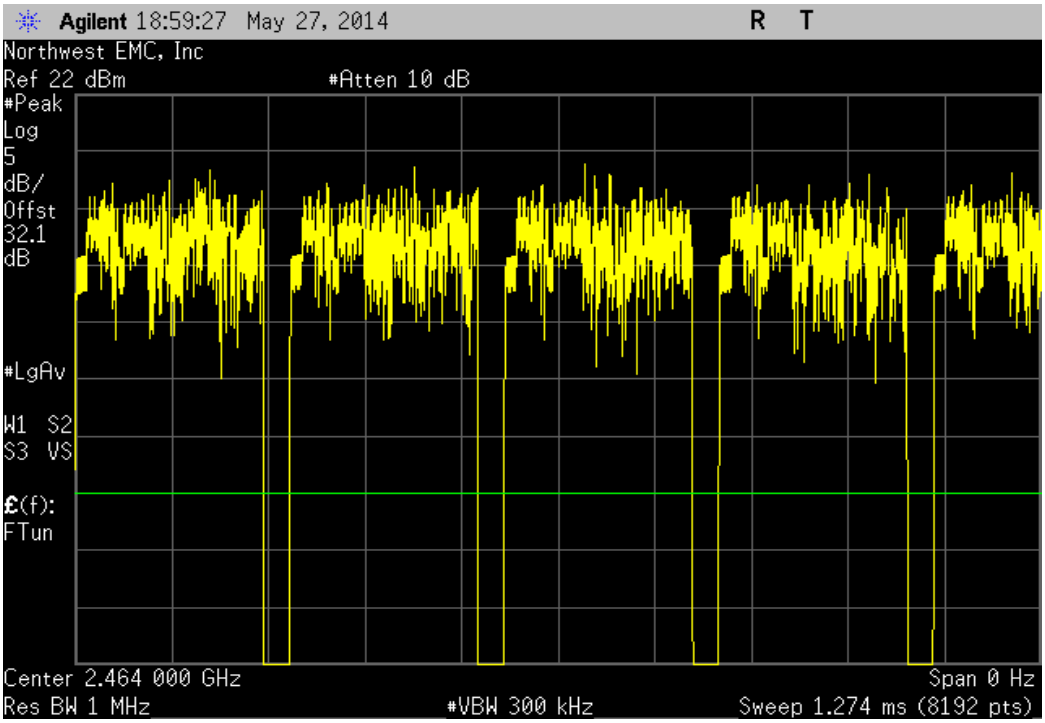


DUTY CYCLE - 2x2 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2464 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	246.8 uS	283.2 uS	1	87.1	N/A	N/A



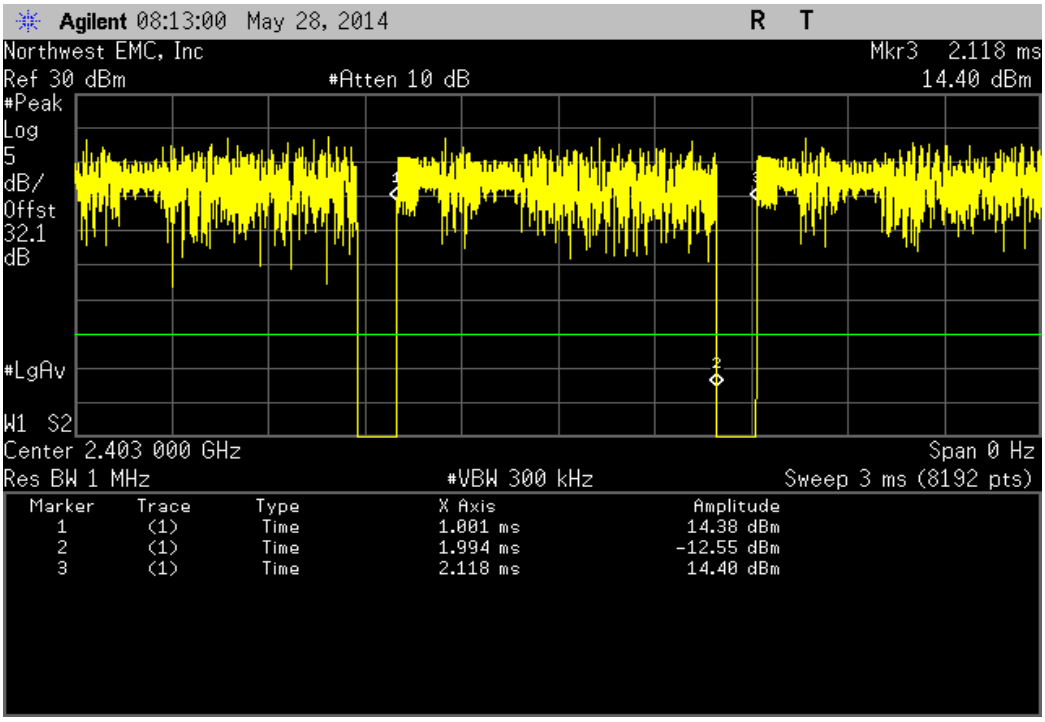
Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2464 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 2x2 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2403 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	993.3 uS	1.117 mS	1	88.9	N/A	N/A



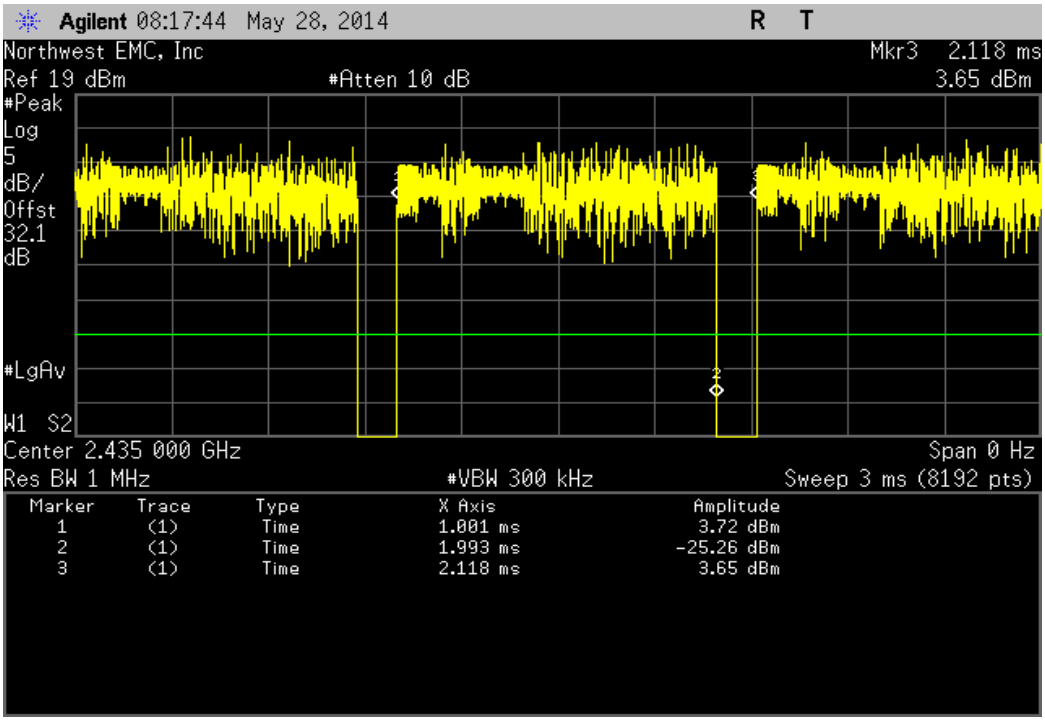
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2403 MHz

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

DUTY CYCLE - 2x2 MIMO

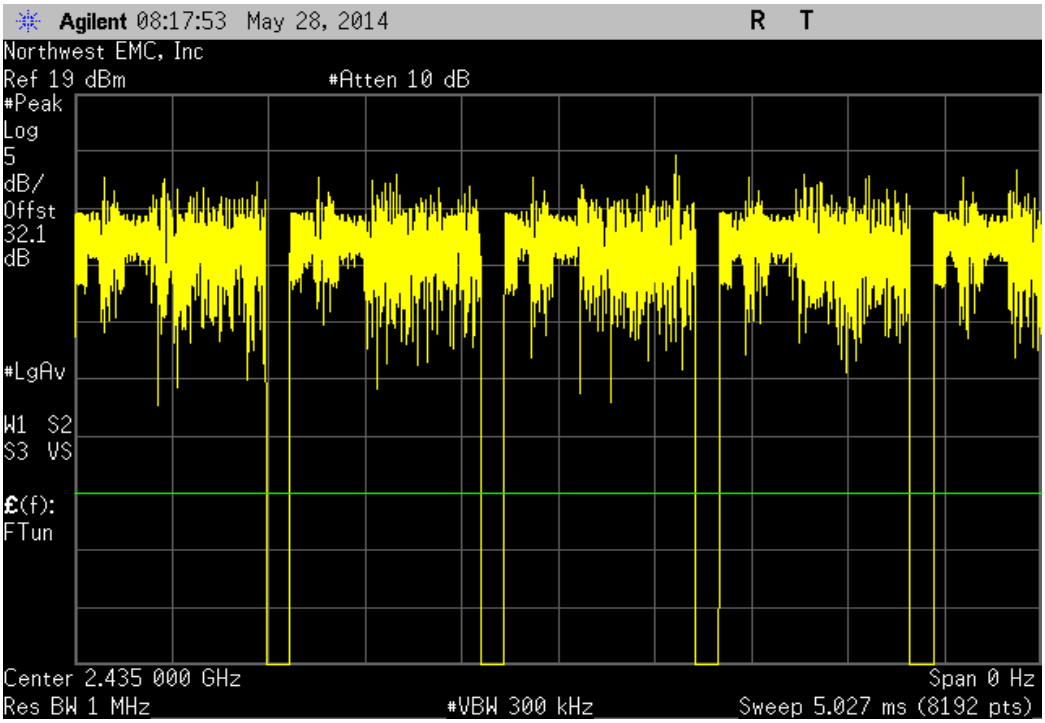
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2435 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	992.2 uS	1.117 mS	1	88.8	N/A	N/A



Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2435 MHz

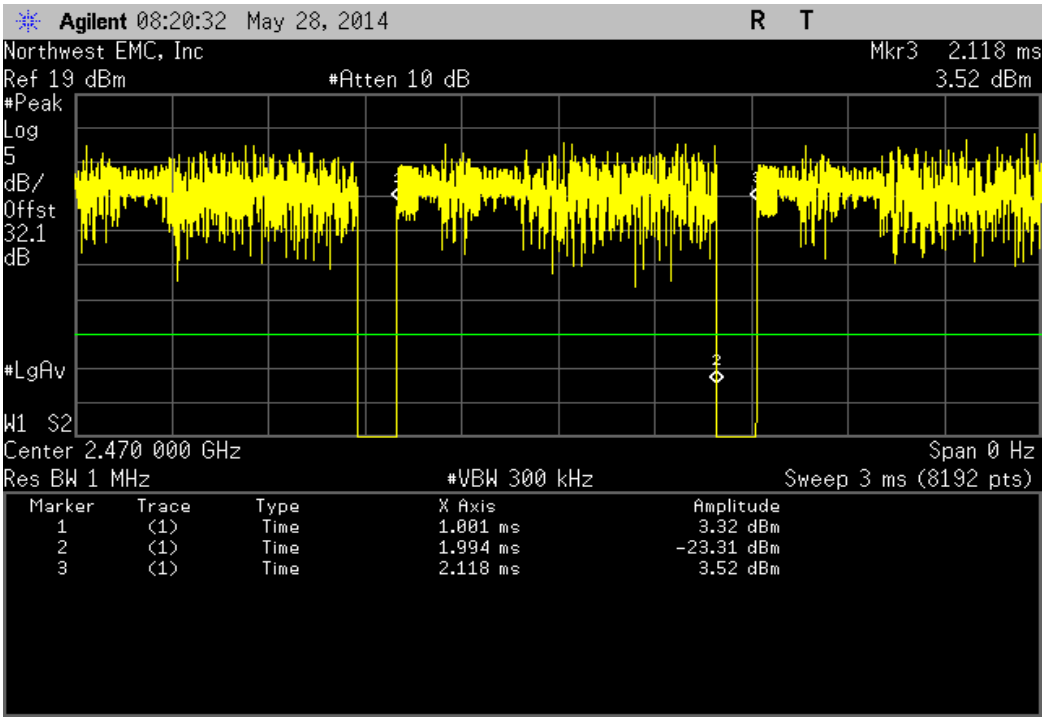
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 2x2 MIMO

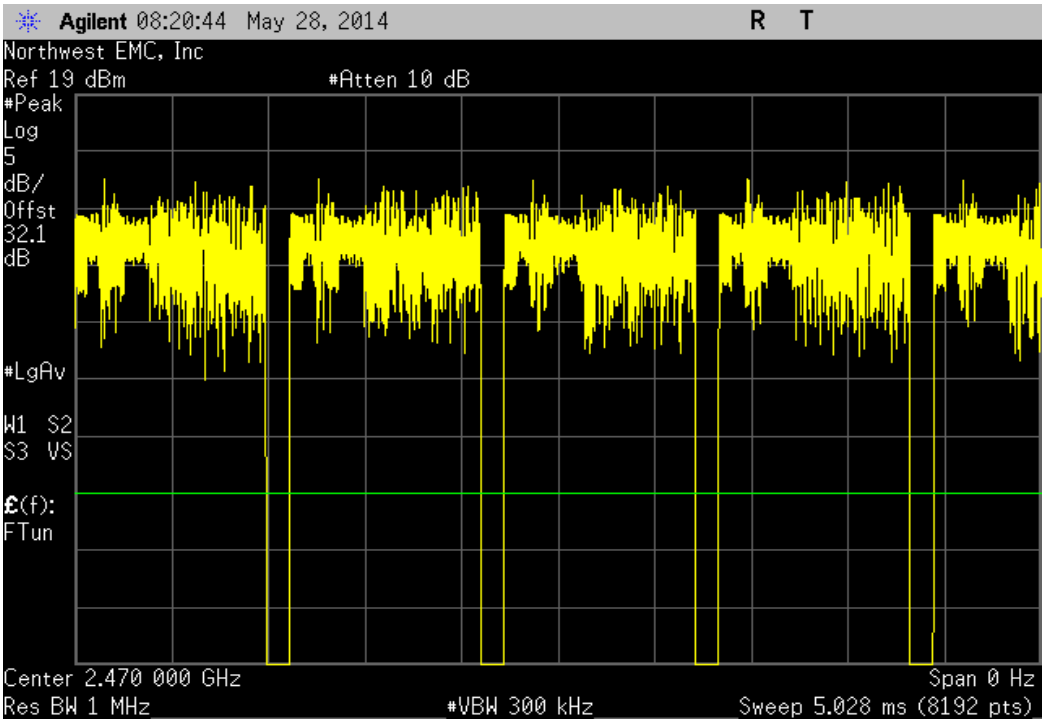
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2470 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	992.5 uS	1.117 mS	1	88.8	N/A	N/A



Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2470 MHz

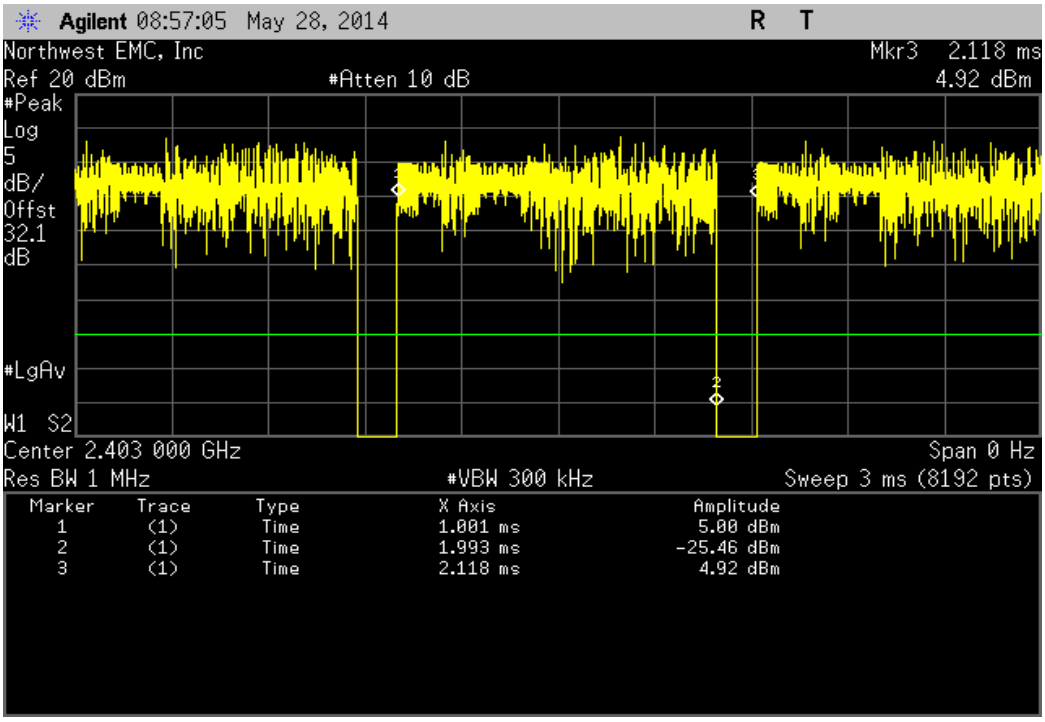
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 2x2 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2403 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	992.2 uS	1.117 mS	1	88.8	N/A	N/A



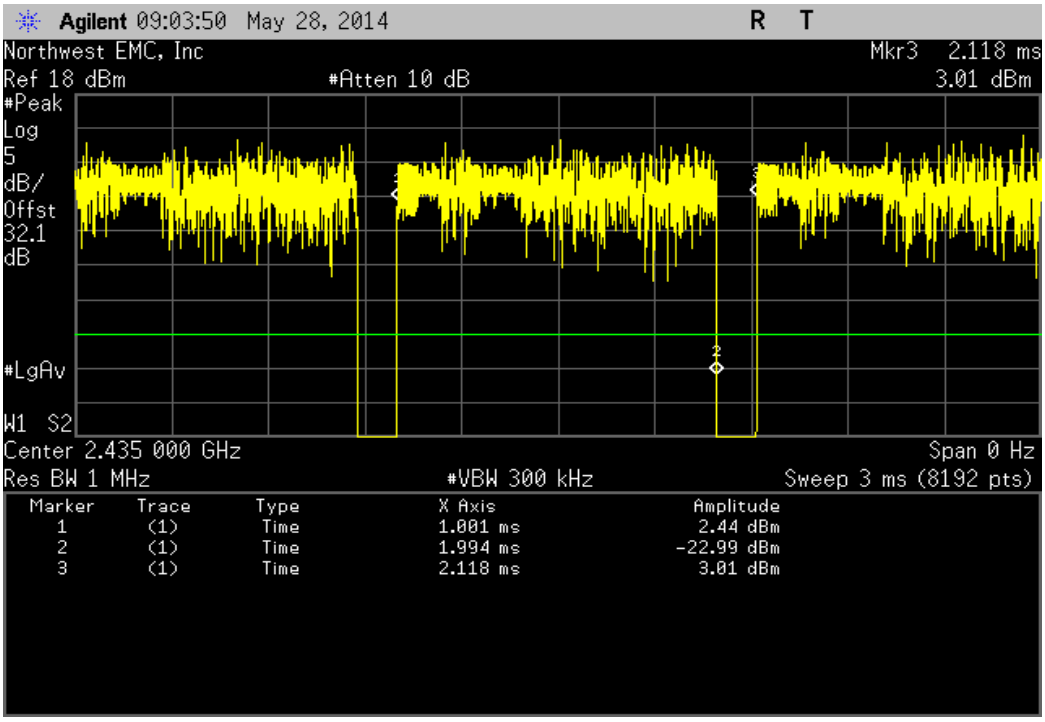
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2403 MHz

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

DUTY CYCLE - 2x2 MIMO

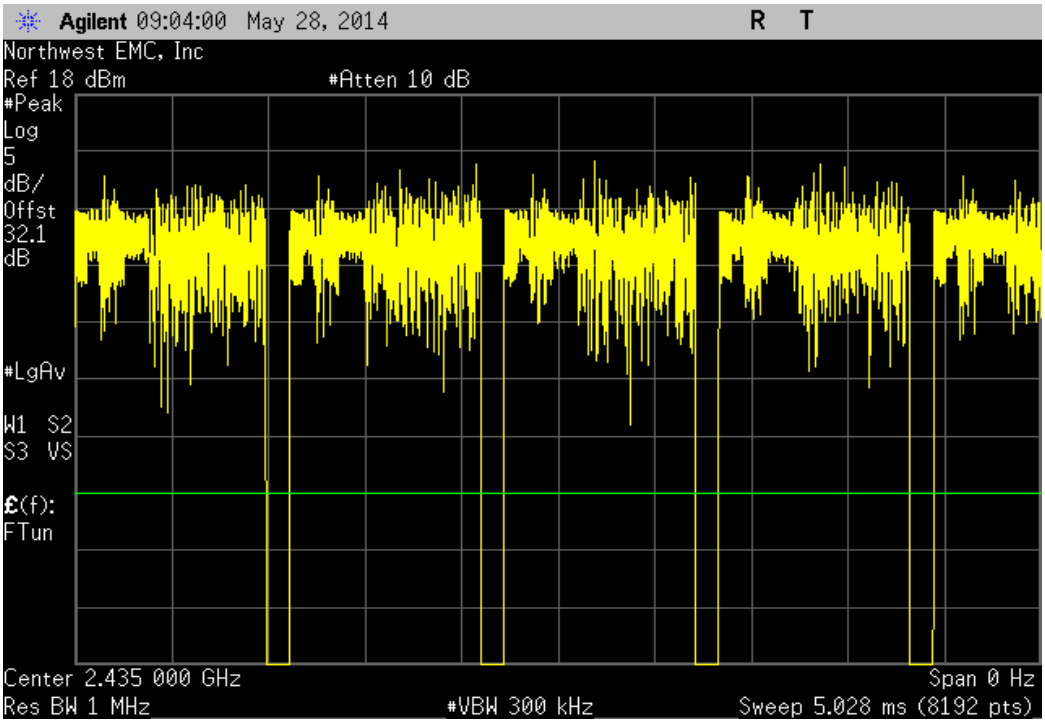
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2435 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	992.5 uS	1.117 mS	1	88.8	N/A	N/A



Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2435 MHz

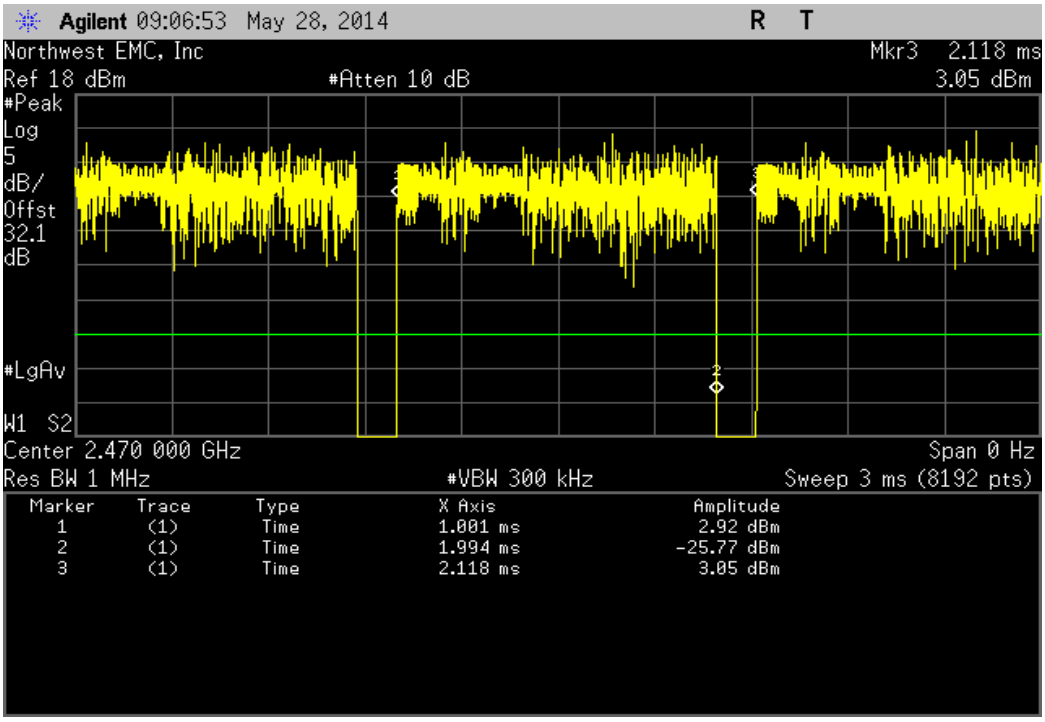
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 2x2 MIMO

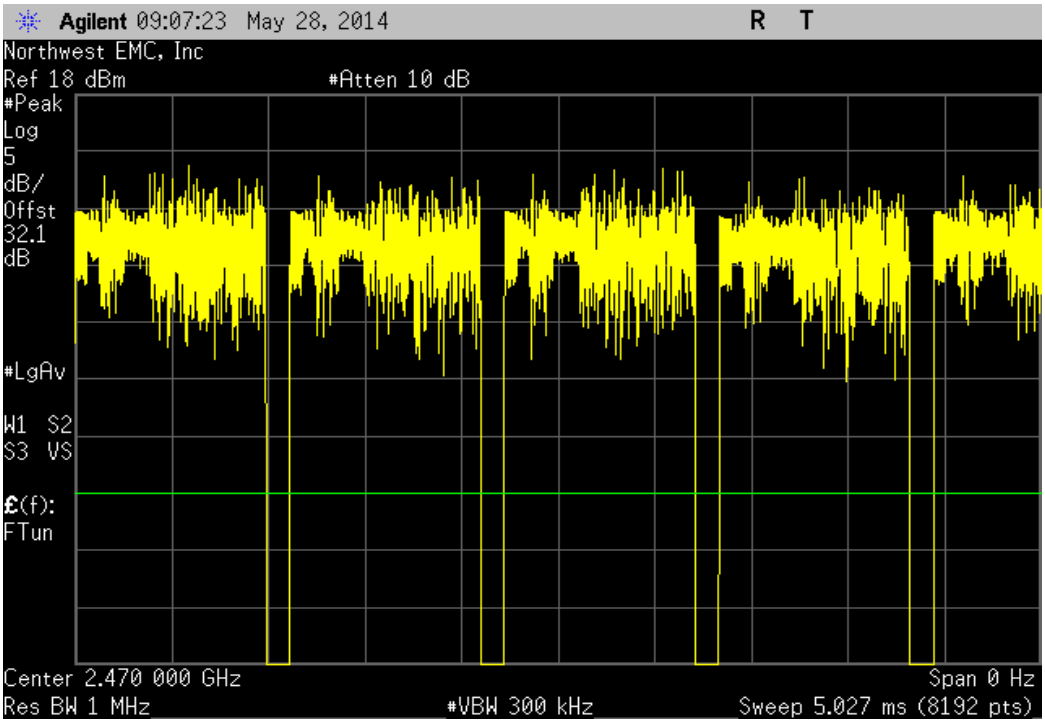
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2470 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	992.6 uS	1.117 mS	1	88.9	N/A	N/A



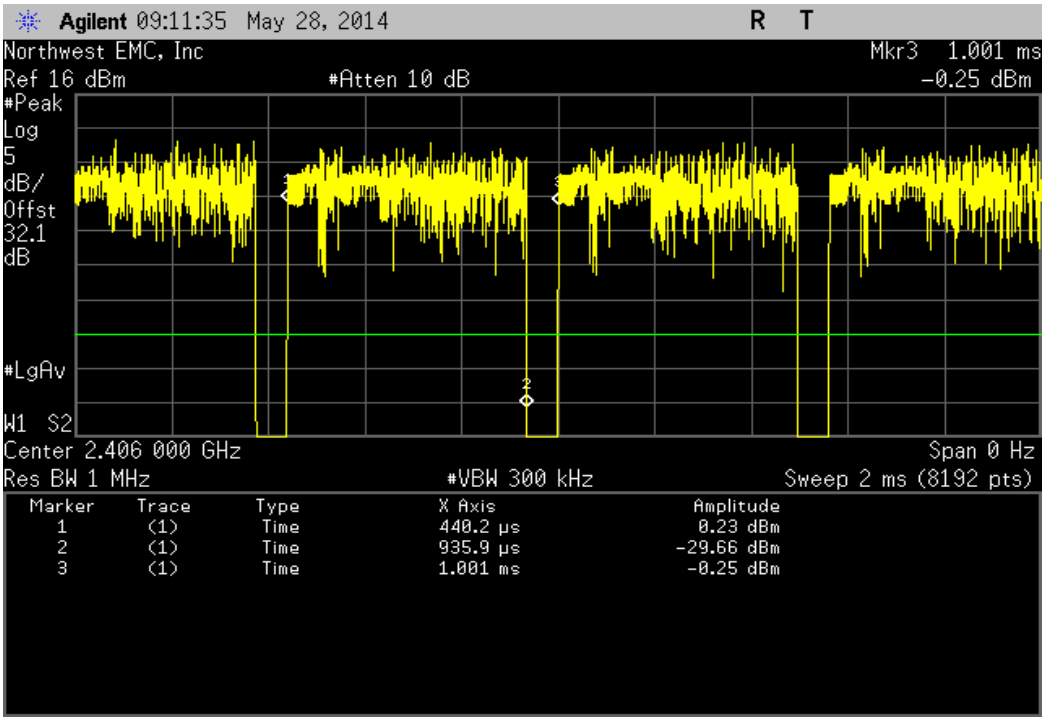
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2470 MHz

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

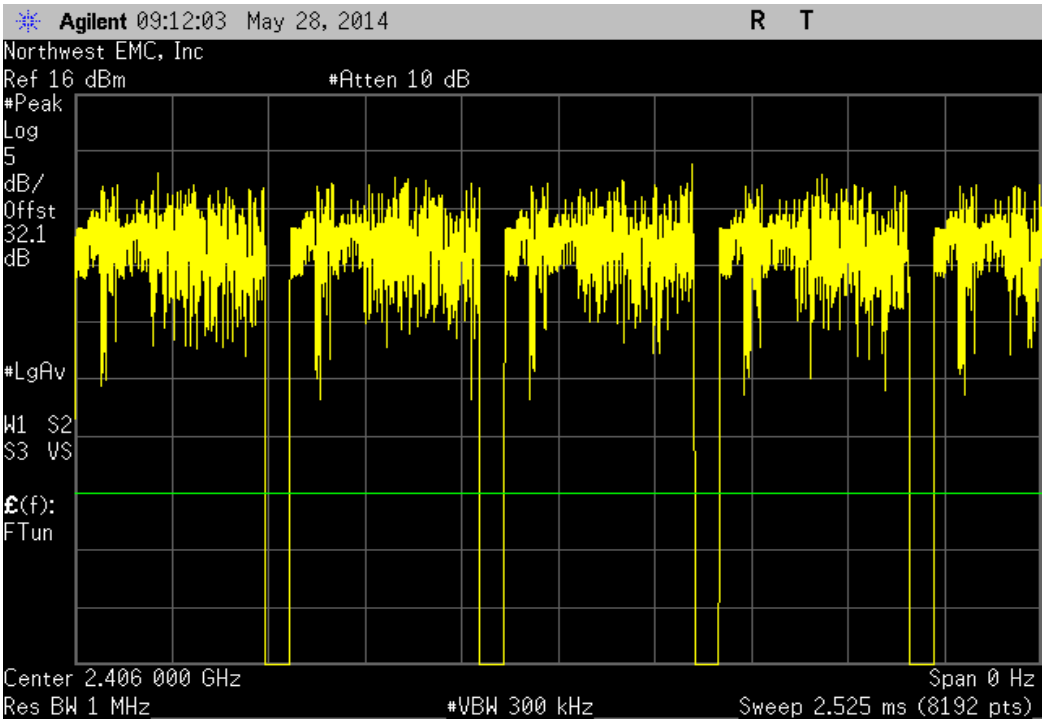


DUTY CYCLE - 2x2 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2406 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	495.7 uS	561.1 uS	1	88.3	N/A	N/A

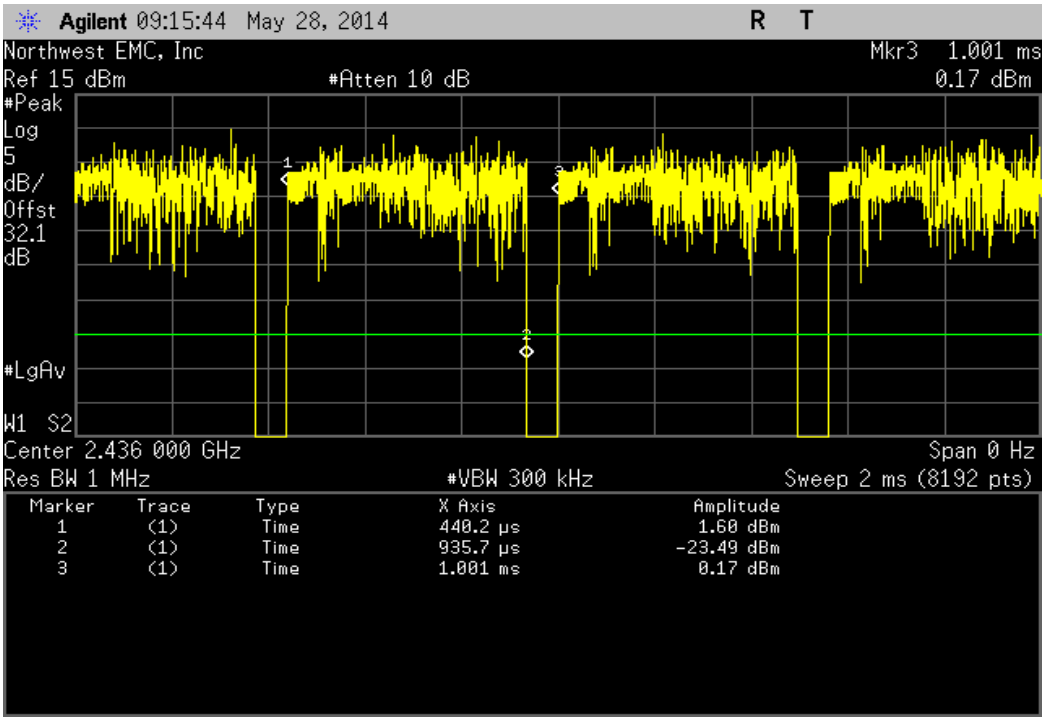


Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2406 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

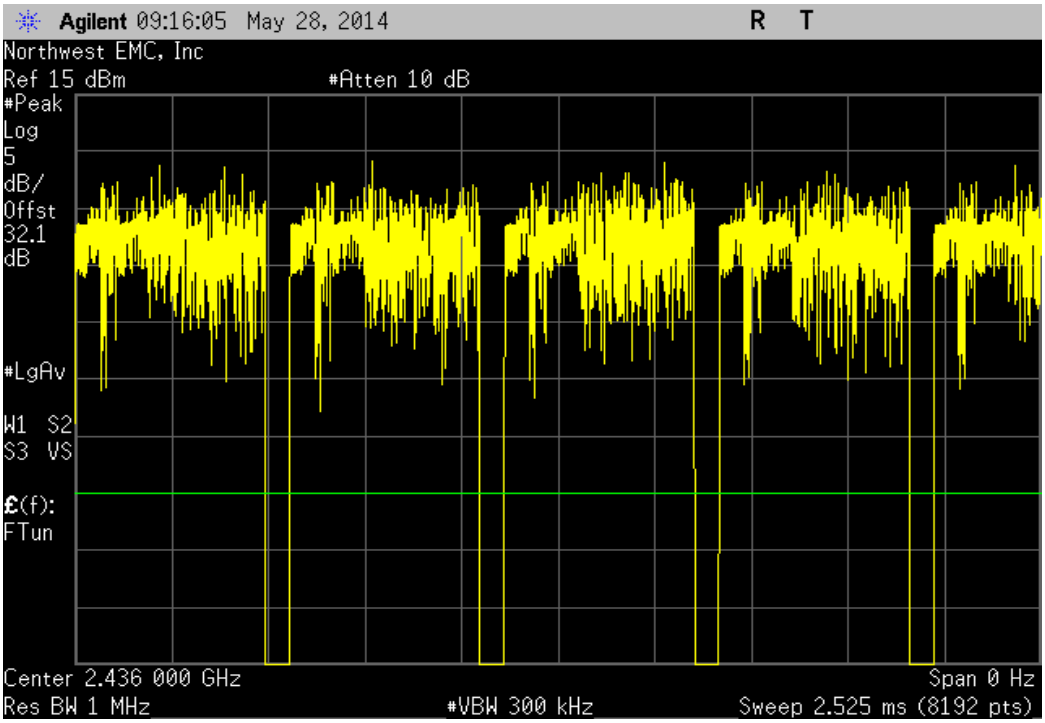


DUTY CYCLE - 2x2 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2436 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	495.5 uS	561.1 uS	1	88.3	N/A	N/A

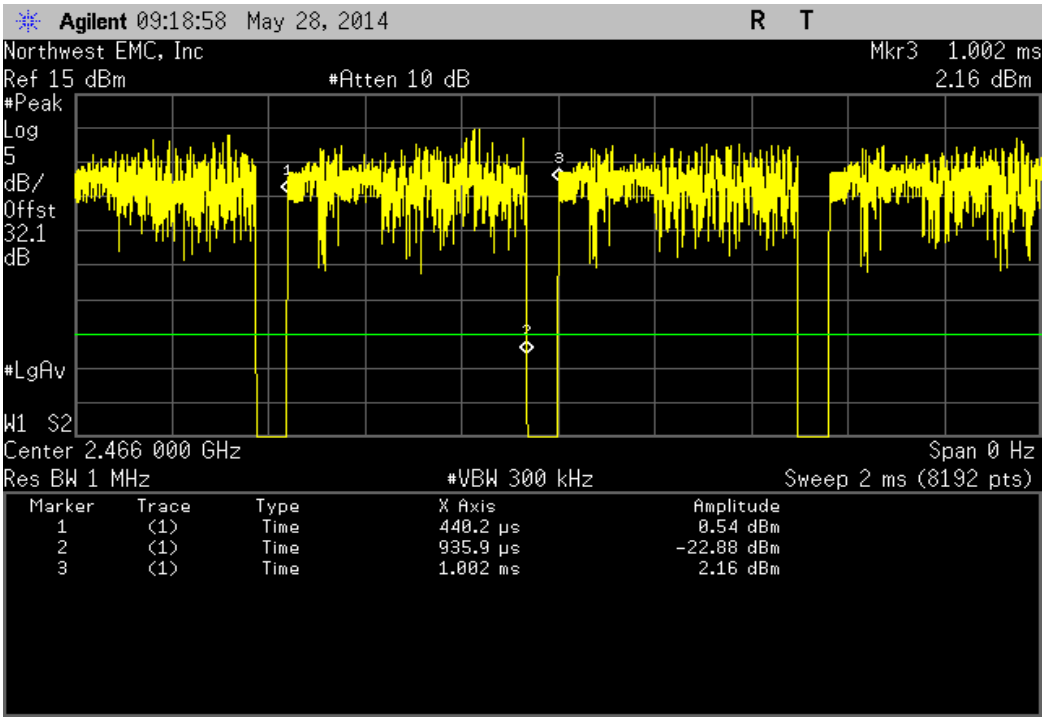


Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2436 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

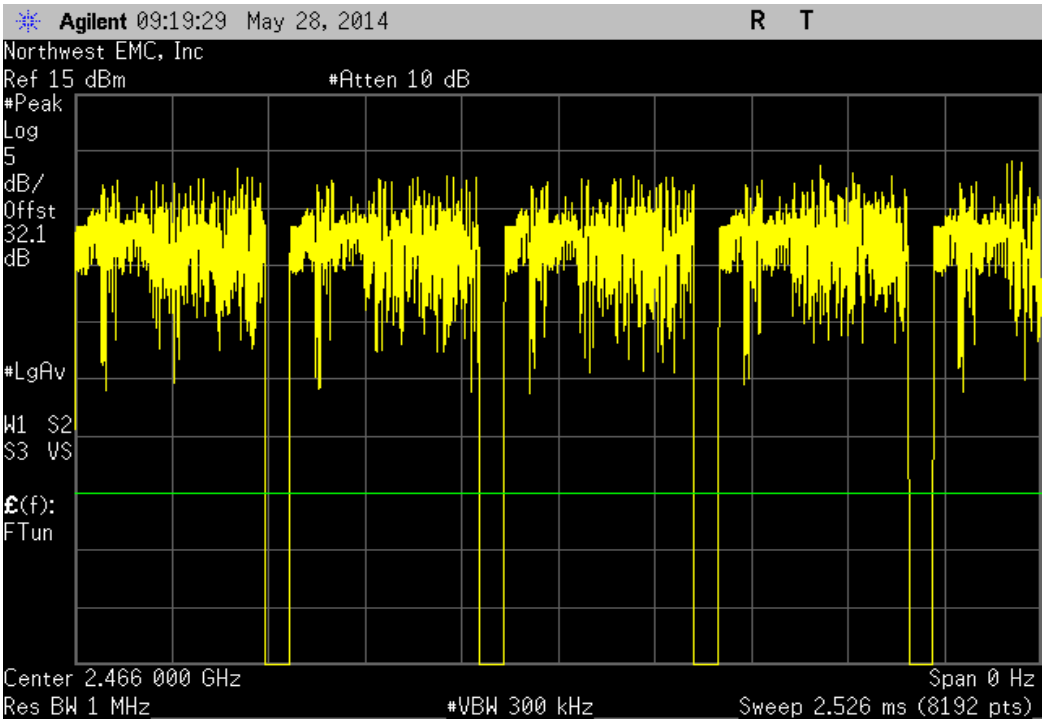


DUTY CYCLE - 2x2 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2466 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	495.7 uS	561.4 uS	1	88.3	N/A	N/A

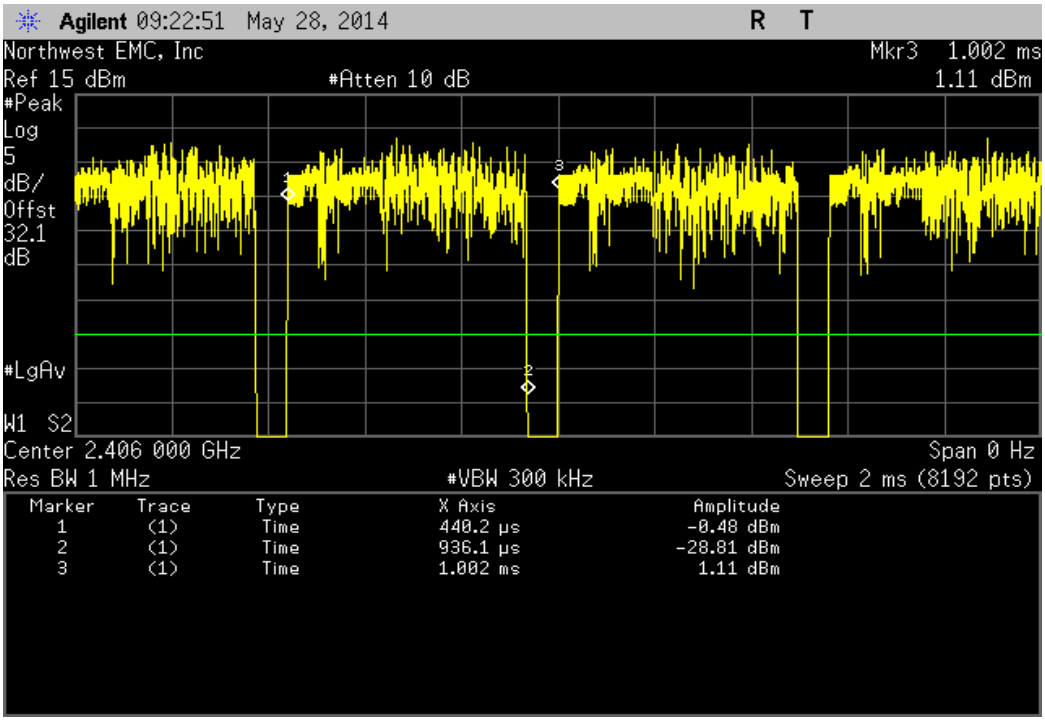


Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2466 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

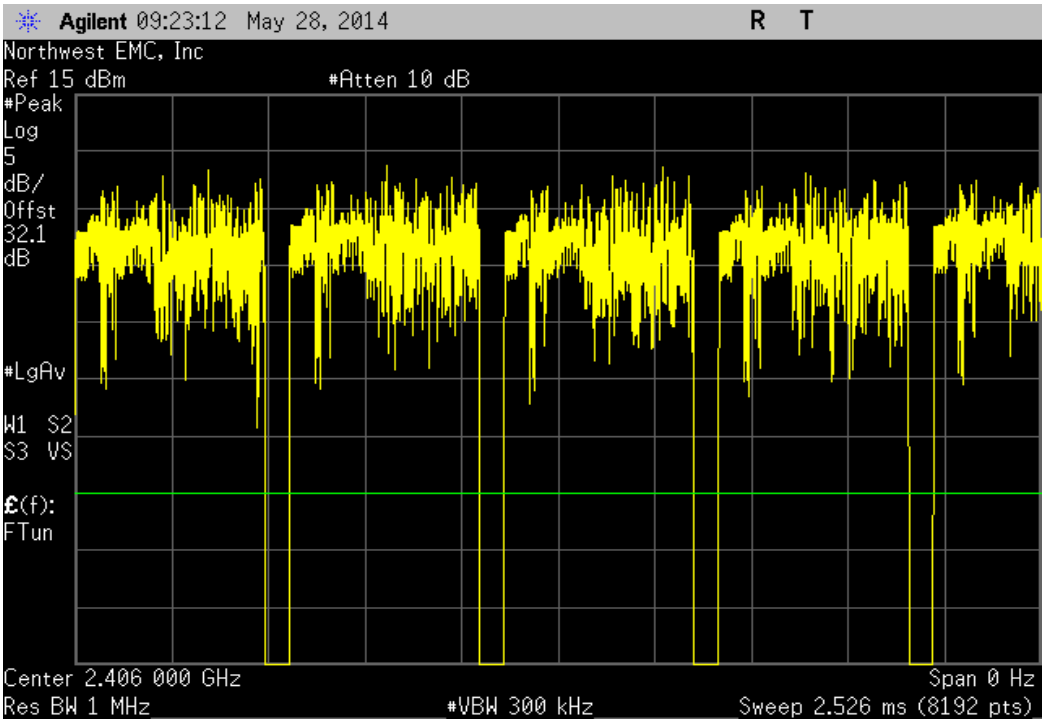


DUTY CYCLE - 2x2 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2406 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	495.9 uS	561.4 uS	1	88.3	N/A	N/A



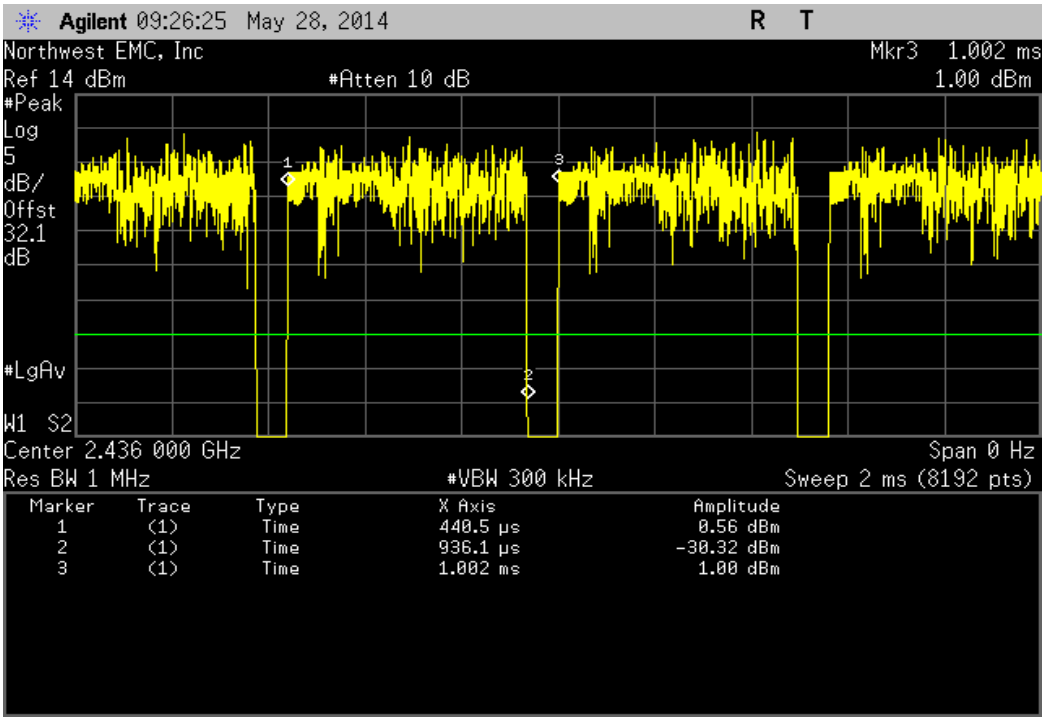
Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2406 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 2x2 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2436 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	495.6 uS	561.1 uS	1	88.3	N/A	N/A



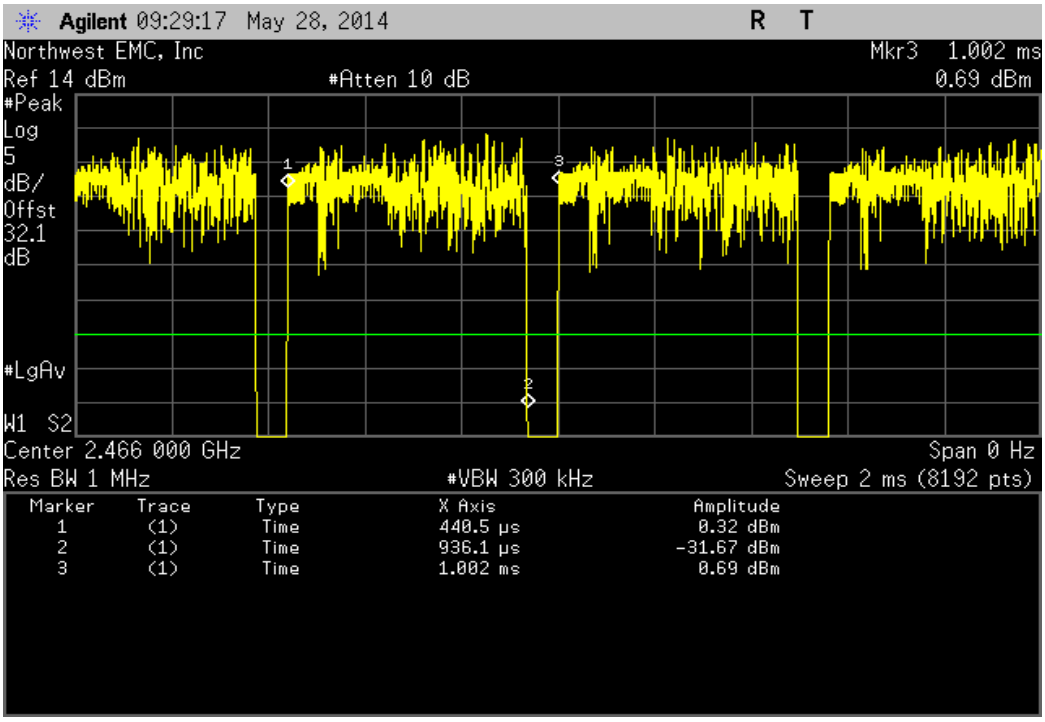
Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2436 MHz

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

DUTY CYCLE - 2x2 MIMO

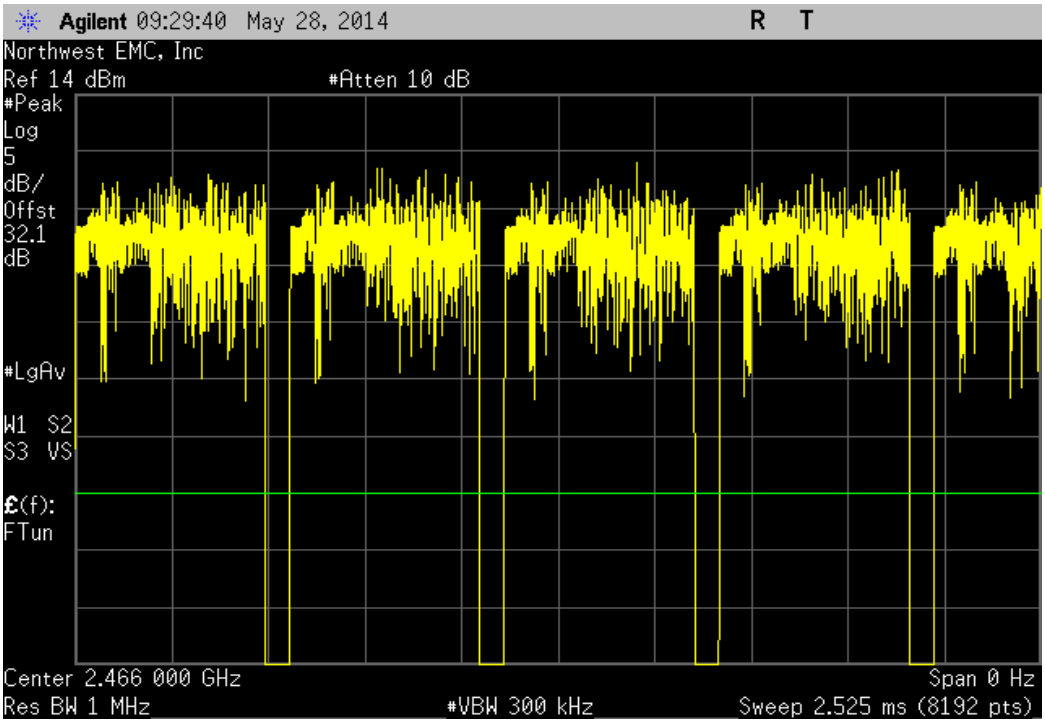
Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2466 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	495.6 uS	561.1 uS	1	88.3	N/A	N/A



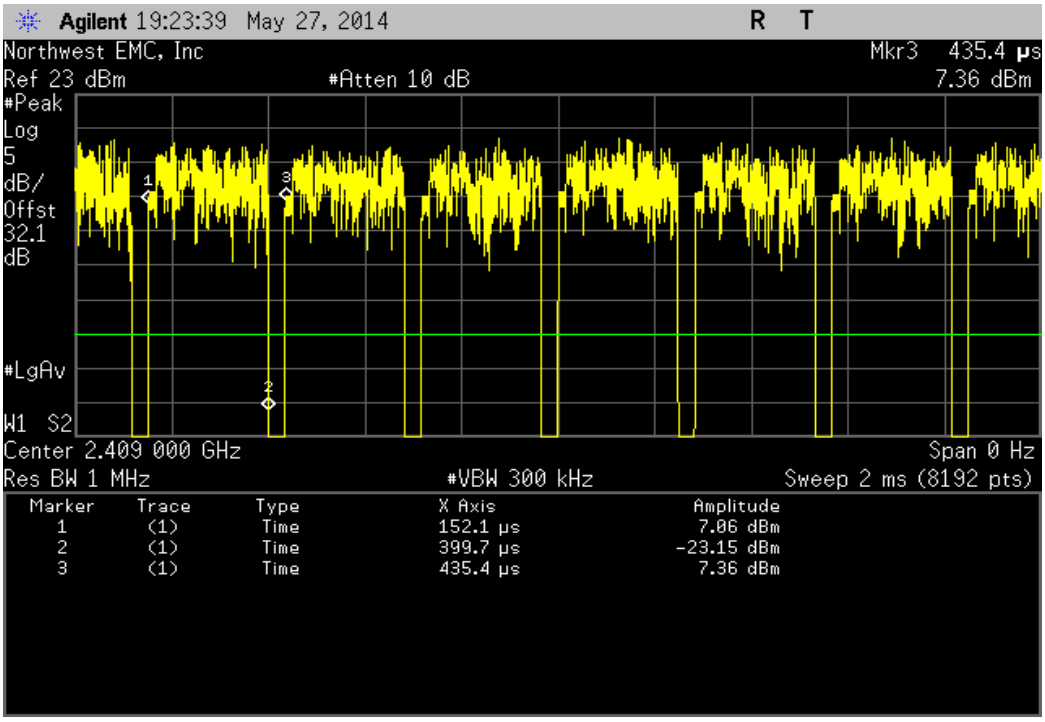
Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2466 MHz

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

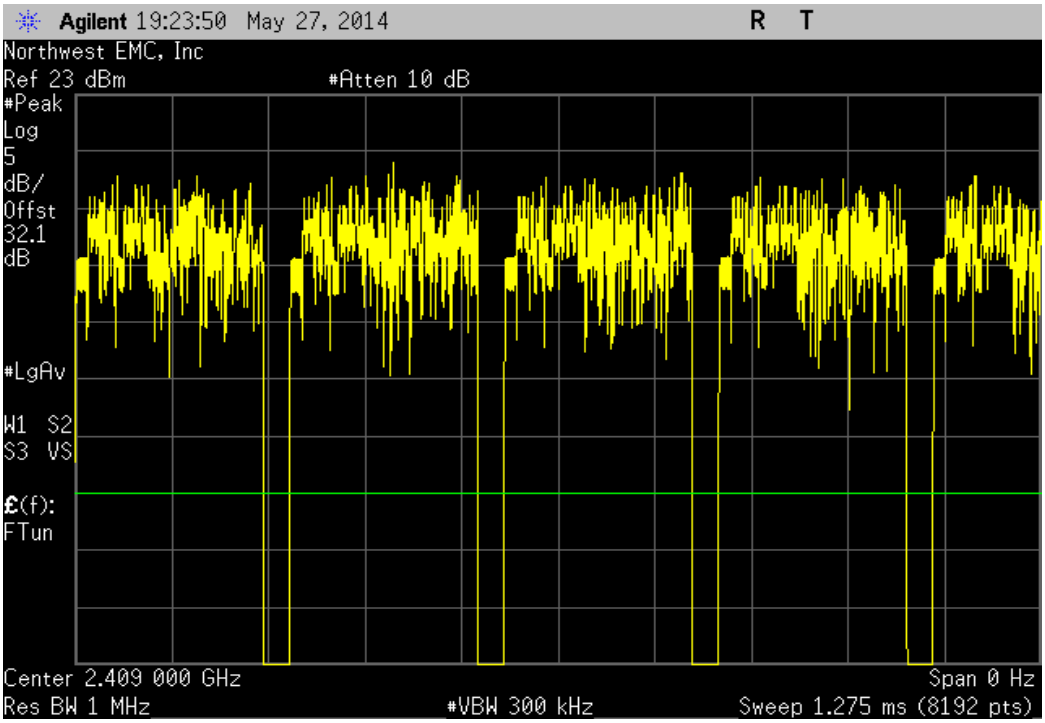


DUTY CYCLE - 2x2 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2409 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	247.6 uS	283.3 uS	1	87.4	N/A	N/A

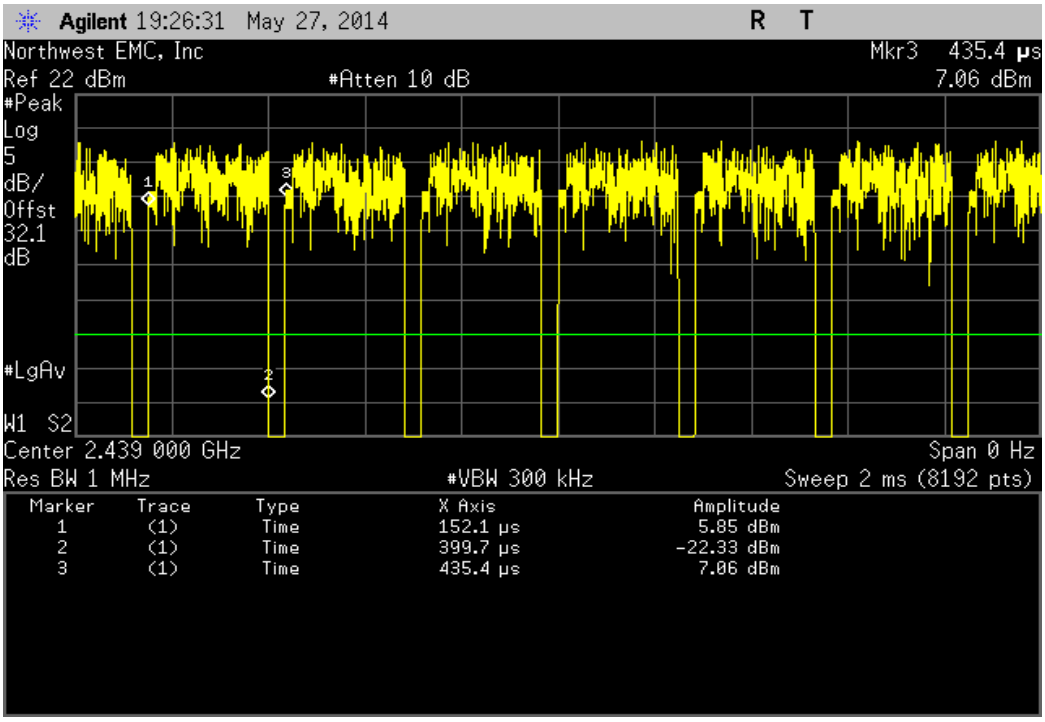


Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2409 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

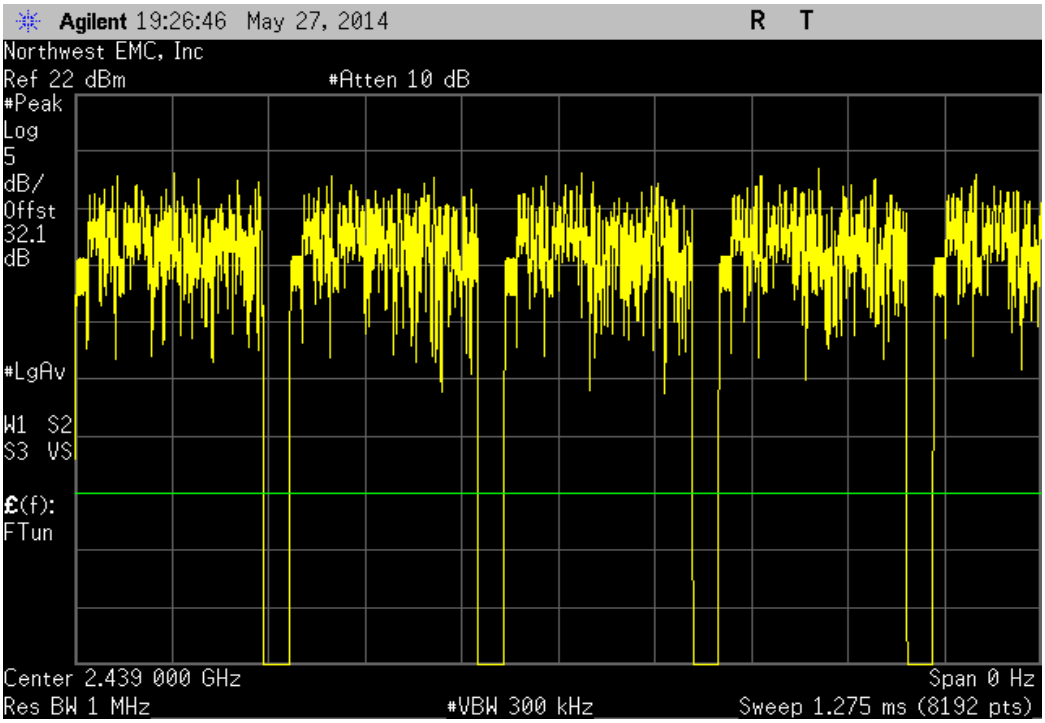


DUTY CYCLE - 2x2 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2439 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	247.6 uS	283.3 uS	1	87.4	N/A	N/A

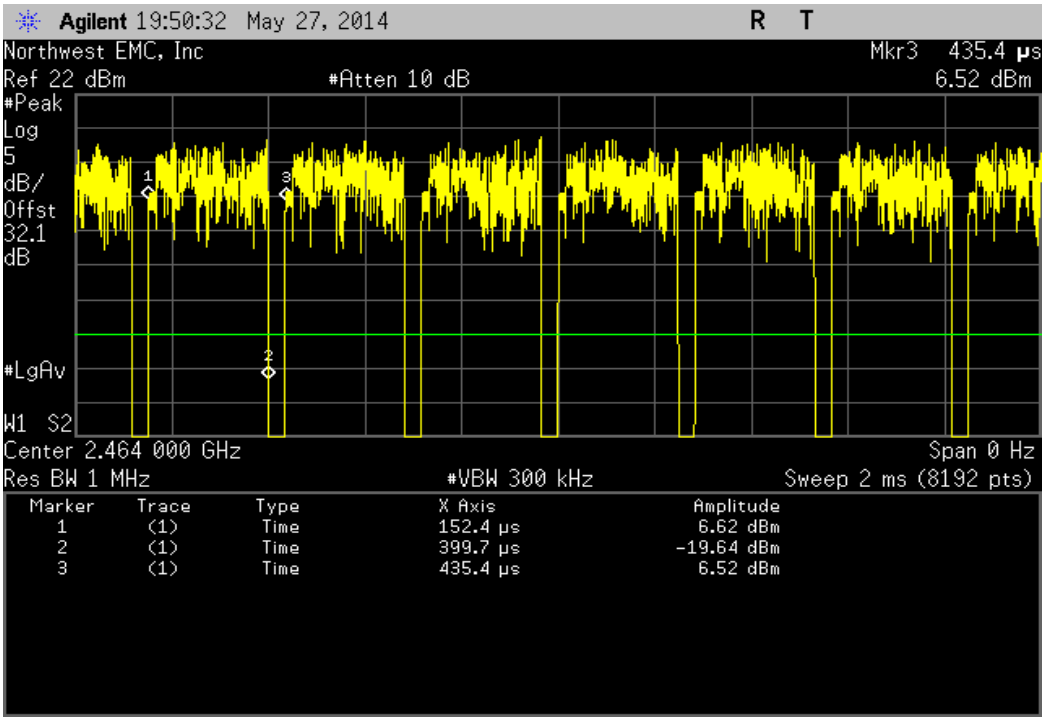


Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2439 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

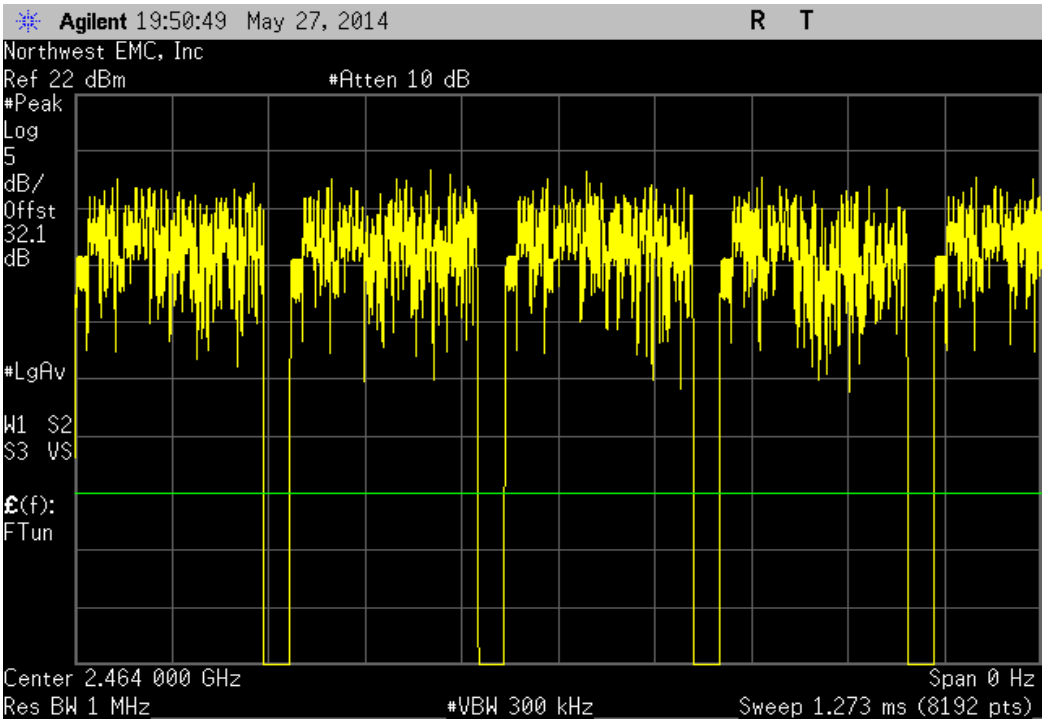


DUTY CYCLE - 2x2 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2464 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	247.3 uS	283 uS	1	87.4	N/A	N/A

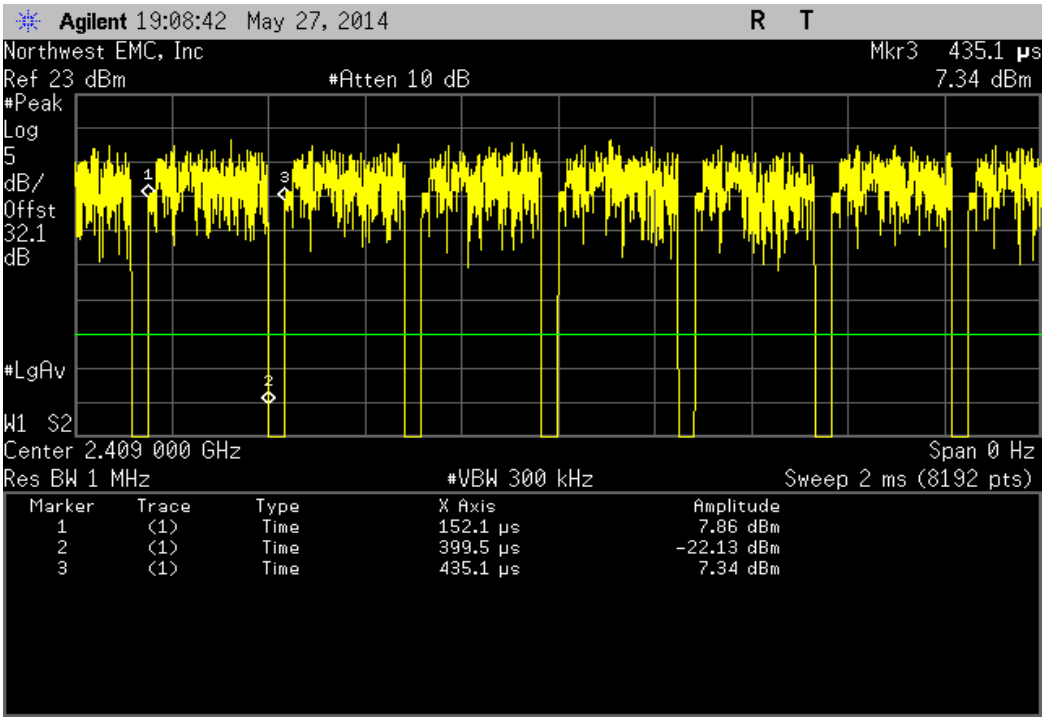


Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2464 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

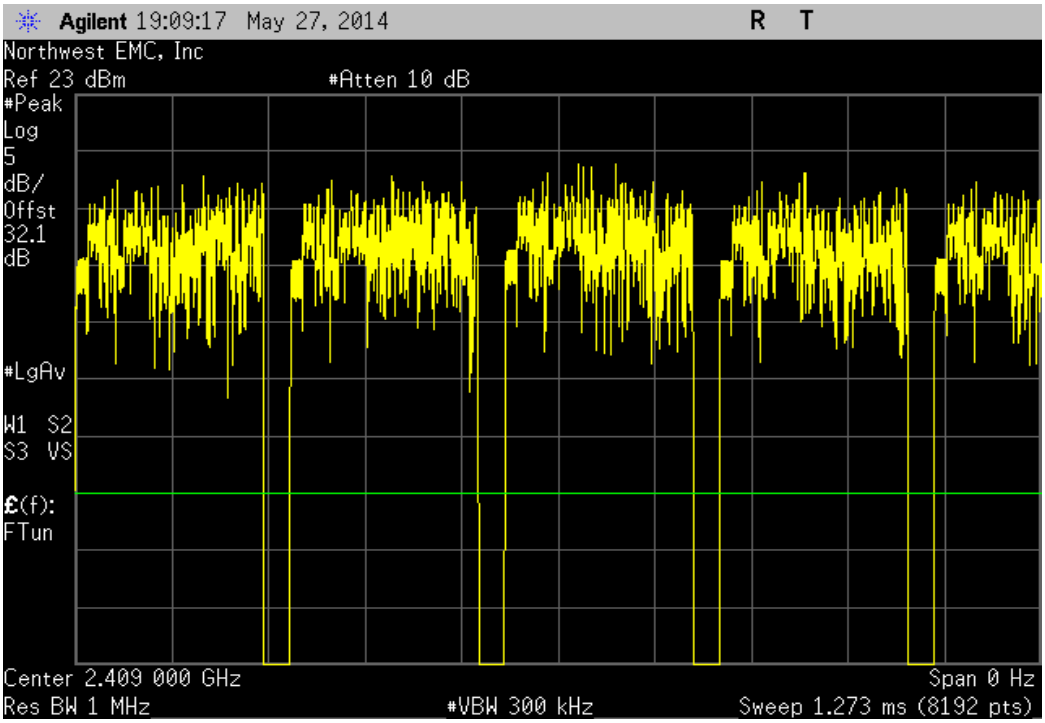


DUTY CYCLE - 2x2 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2409 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	247.4 uS	283 uS	1	87.4	N/A	N/A

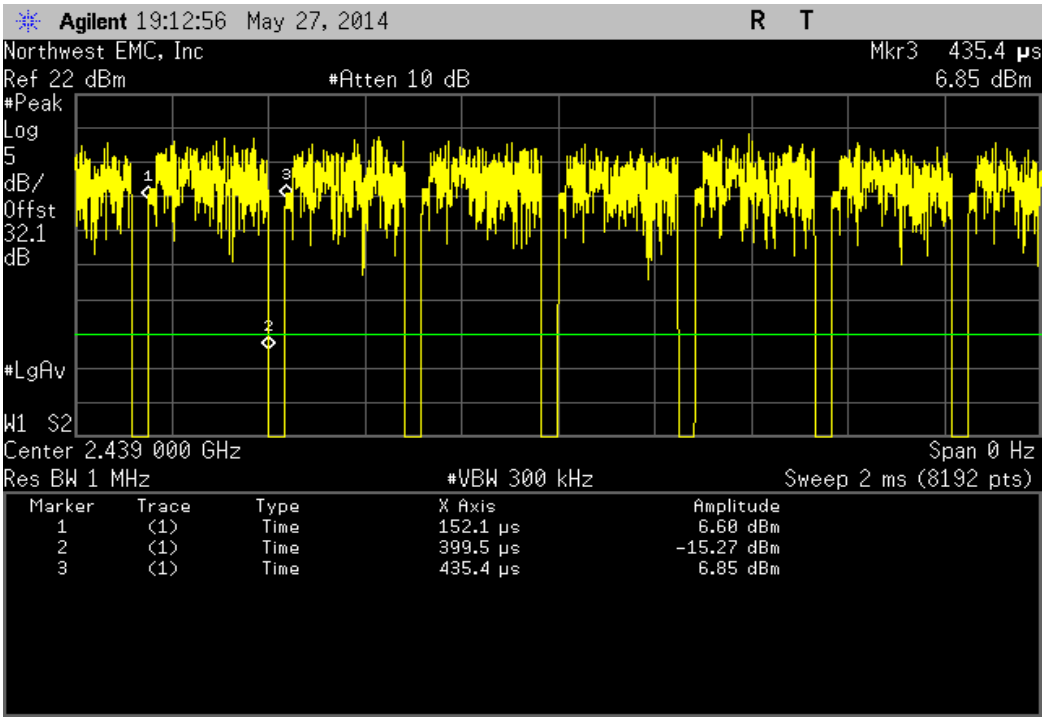


Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2409 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

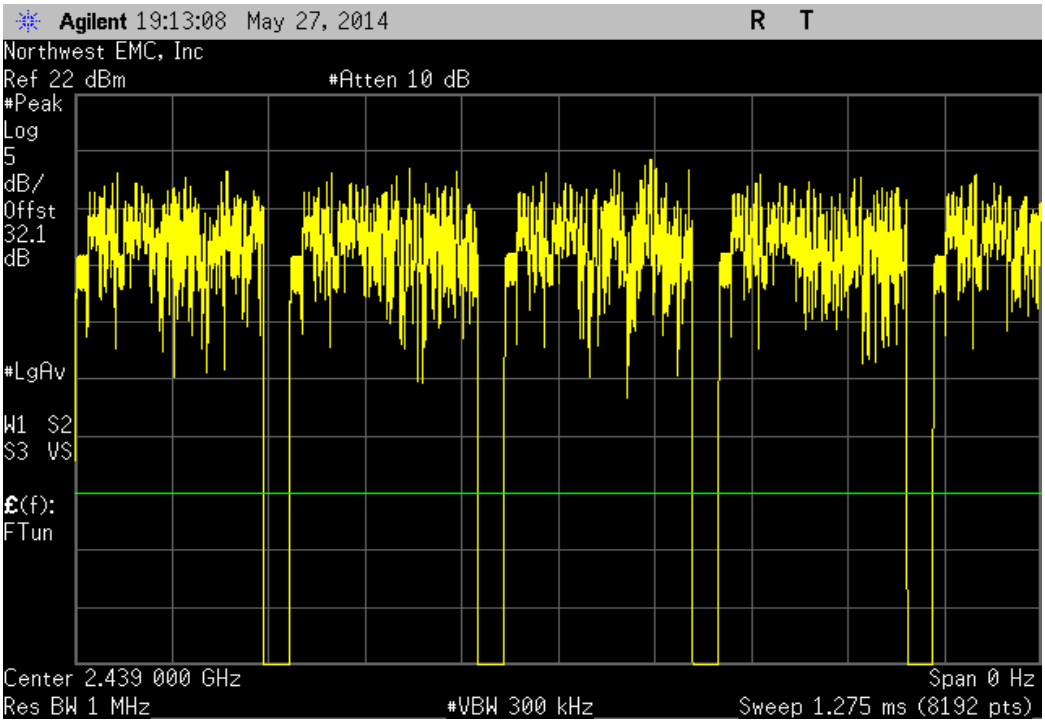


DUTY CYCLE - 2x2 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2439 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	247.4 uS	283.3 uS	1	87.3	N/A	N/A

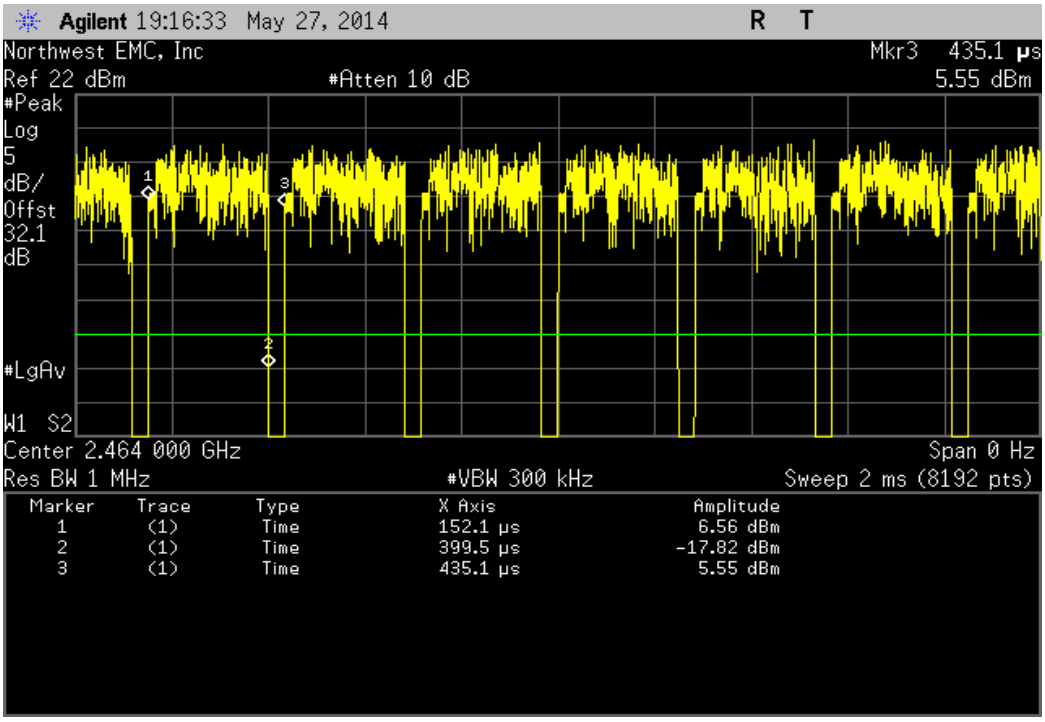


Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2439 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

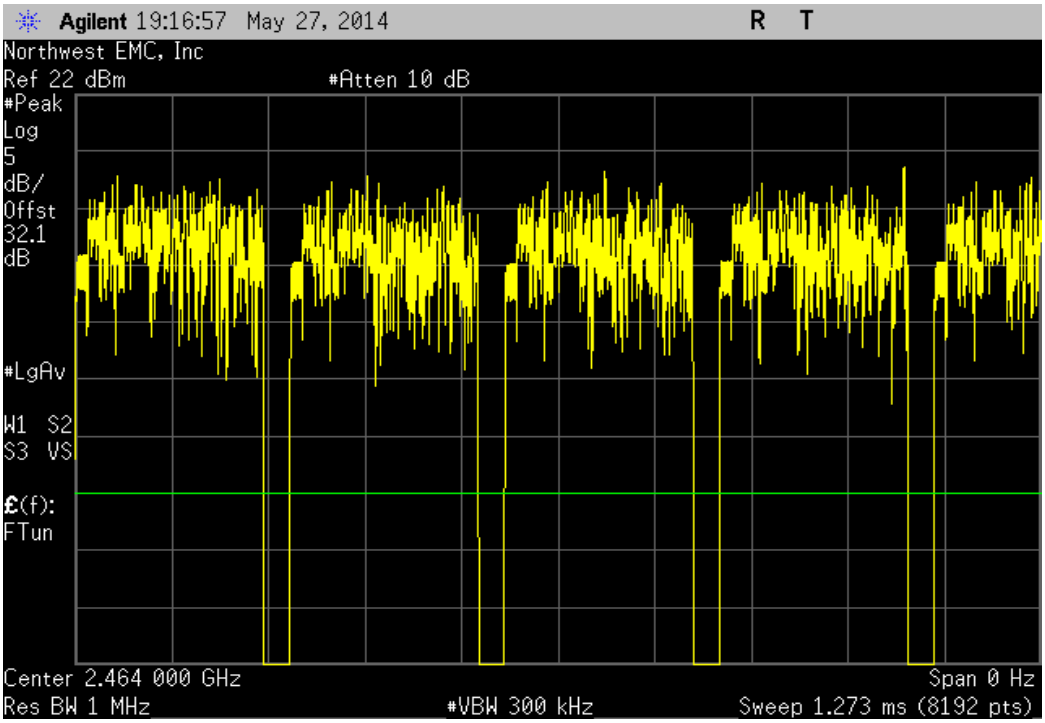


DUTY CYCLE - 2x2 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2464 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	247.4 uS	283 uS	1	87.4	N/A	N/A



Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2464 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 3x3 MIMO

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
40GHz DC Block	Miteq	DCB4000	AMD	4/28/2014	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 6 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-6	AUX	7/30/2013	12
Power Meter	Agilent	N1913A	SQR	4/29/2013	36
Power Sensor	Agilent	E9300H	SQO	4/29/2013	36
Spectrum Analyzer	Agilent	E4446A	AAQ	1/21/2014	24
MXG MW Analog Signal Generator 40 Gig	Agilent	N5183A	TID	9/19/2011	36

TEST DESCRIPTION

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.

The measurements were made using a zero span on the spectrum analyzer to see the pulses in the time domain. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used.

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

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

DUTY CYCLE - 3x3 MIMO

EUT:	WavePoint 10e Industrial Wireless Router (W2400-01)	Work Order:	FREW0026
Serial Number:	135268908	Date:	05/29/14
Customer:	FreeWave Technologies, Inc.	Temperature:	22°C
Attendees:	Dean Busch	Humidity:	36%
Project:	None	Barometric Pres.:	1022
Tested by:	Brandon Hobbs, Jared Ison	Power: 12 VDC	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247:2014	ANSI C63.10:2009

COMMENTS

An additional 10dB 5watt attenuater was used inline for all measurements made while under test. Please reference the power levels for this test in the power level table.

DEVIATIONS FROM TEST STANDARD

None

Configuration #	1	Signature

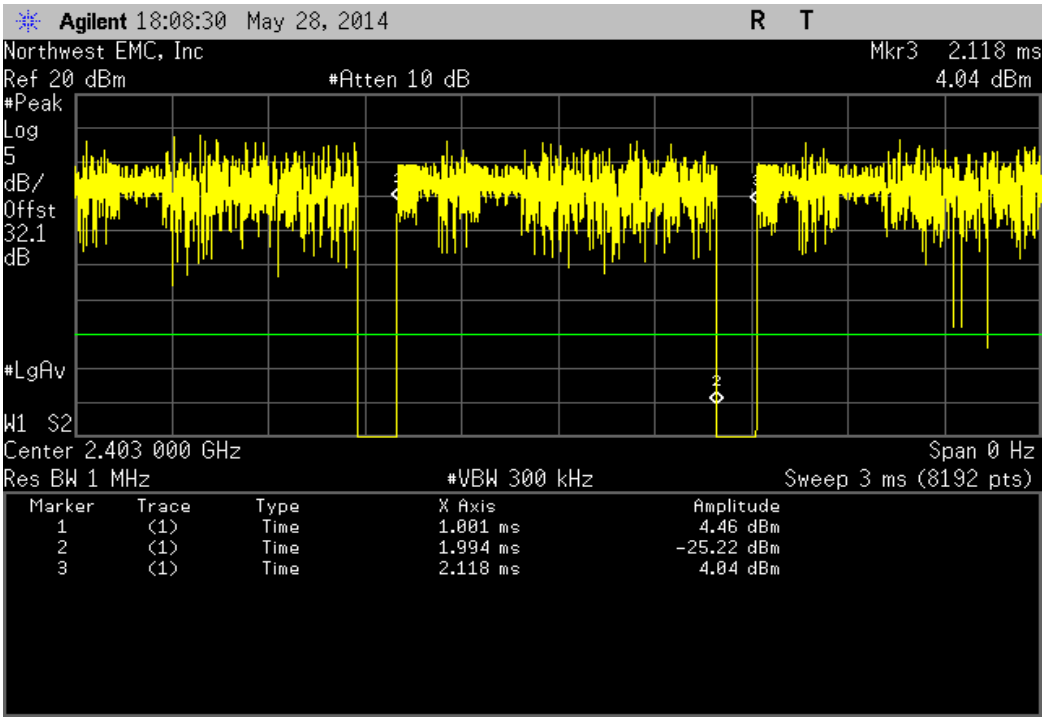
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
Chain 1						
2400 MHz - 2483.5 MHz Band						
2.5MHz Bandwidth						
3x3 Modulation Type, BPSK, Coding Rate, 1/2.						
Low Channel 2403 MHz	992.9 uS	1.117 mS	1	88.9	N/A	N/A
Low Channel 2403 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2435 MHz	992.2 uS	1.117 mS	1	88.8	N/A	N/A
Mid Channel 2435 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2470 MHz	992.2 uS	1.117 mS	1	88.8	N/A	N/A
High Channel 2470 MHz	N/A	N/A	5	N/A	N/A	N/A
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.						
Low Channel 2403 MHz	991.8 uS	1.117 mS	1	88.8	N/A	N/A
Low Channel 2403 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2435 MHz	991.8 uS	1.117 mS	1	88.8	N/A	N/A
Mid Channel 2435 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2470 MHz	992.5 uS	1.117 mS	1	88.8	N/A	N/A
High Channel 2470 MHz	N/A	N/A	5	N/A	N/A	N/A
5MHz Bandwidth						
3x3 Modulation Type, BPSK, Coding Rate, 1/2.						
Low Channel 2406 MHz	496.2 uS	561.4 uS	1	88.4	N/A	N/A
Low Channel 2406 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2436 MHz	496.1 uS	561.1 uS	1	88.4	N/A	N/A
Mid Channel 2436 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2466 MHz	496.1 uS	561.1 uS	1	88.4	N/A	N/A
High Channel 2466 MHz	N/A	N/A	5	N/A	N/A	N/A
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.						
Low Channel 2406 MHz	495.9 uS	561.1 uS	1	88.4	N/A	N/A
Low Channel 2406 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2436 MHz	496.1 uS	560.9 uS	1	88.4	N/A	N/A
Mid Channel 2436 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2466 MHz	496.4 uS	561.4 uS	1	88.4	N/A	N/A
High Channel 2466 MHz	N/A	N/A	5	N/A	N/A	N/A
10MHz Bandwidth						
3x3 Modulation Type, BPSK, Coding Rate, 1/2.						
Low Channel 2409 MHz	246.8 uS	283 uS	1	87.2	N/A	N/A
Low Channel 2409 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2439 MHz	247.1 uS	283.2 uS	1	87.3	N/A	N/A
Mid Channel 2439 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2464 MHz	246.8 uS	283.2 uS	1	87.1	N/A	N/A
High Channel 2464 MHz	N/A	N/A	6	N/A	N/A	N/A
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.						
Low Channel 2409 MHz	247.1 uS	283 uS	1	87.3	N/A	N/A
Low Channel 2409 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2439 MHz	246.8 uS	283.2 uS	1	87.1	N/A	N/A
Mid Channel 2439 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2464 MHz	247.1 uS	283 uS	1	87.3	N/A	N/A
High Channel 2464 MHz	N/A	N/A	5	N/A	N/A	N/A
Chain 2						
2400 MHz - 2483.5 MHz Band						
2.5MHz Bandwidth						
3x3 Modulation Type, BPSK, Coding Rate, 1/2.						
Low Channel 2403 MHz	102.406 mS	113.165 mS	1	90.5	N/A	N/A
Low Channel 2403 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2435 MHz	993.3 uS	1.117 mS	1	88.9	N/A	N/A
Mid Channel 2435 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2470 MHz	993.3 uS	1.117 mS	1	88.9	N/A	N/A
High Channel 2470 MHz	N/A	N/A	5	N/A	N/A	N/A
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.						
Low Channel 2403 MHz	992.5 uS	1.117 mS	1	88.8	N/A	N/A
Low Channel 2403 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2435 MHz	992.5 uS	1.117 mS	1	88.8	N/A	N/A
Mid Channel 2435 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2470 MHz	992.5 uS	1.117 mS	1	88.8	N/A	N/A
High Channel 2470 MHz	N/A	N/A	5	N/A	N/A	N/A
5MHz Bandwidth						
3x3 Modulation Type, BPSK, Coding Rate, 1/2.						
Low Channel 2406 MHz	495.9 uS	561.4 uS	1	88.3	N/A	N/A
Low Channel 2406 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2436 MHz	495.7 uS	561.4 uS	1	88.3	N/A	N/A
Mid Channel 2436 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2466 MHz	495.9 uS	561.4 uS	1	88.3	N/A	N/A
High Channel 2466 MHz	N/A	N/A	5	N/A	N/A	N/A
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.						
Low Channel 2406 MHz	495.7 uS	561.4 uS	1	88.3	N/A	N/A
Low Channel 2406 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2436 MHz	495.6 uS	561.1 uS	1	88.3	N/A	N/A
Mid Channel 2436 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2466 MHz	495.6 uS	561.1 uS	1	88.3	N/A	N/A
High Channel 2466 MHz	N/A	N/A	5	N/A	N/A	N/A

	10MHz Bandwidth						
	3x3 Modulation Type, BPSK, Coding Rate, 1/2.						
	Low Channel 2409 MHz	247.4 uS	284.2 uS	1	87.1	N/A	N/A
	Low Channel 2409 MHz	N/A	N/A	5	N/A	N/A	N/A
	Mid Channel 2439 MHz	247.3 uS	283.9 uS	1	87.1	N/A	N/A
	Mid Channel 2439 MHz	N/A	N/A	6	N/A	N/A	N/A
	High Channel 2464 MHz	247.4 uS	283.3 uS	1	87.3	N/A	N/A
	High Channel 2464 MHz	N/A	N/A	5	N/A	N/A	N/A
	3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.						
	Low Channel 2409 MHz	247.4 uS	283.3 uS	1	87.3	N/A	N/A
	Low Channel 2409 MHz	N/A	N/A	6	N/A	N/A	N/A
	Mid Channel 2439 MHz	247.4 uS	283.3 uS	1	87.3	N/A	N/A
	Mid Channel 2439 MHz	N/A	N/A	6	N/A	N/A	N/A
	High Channel 2464 MHz	247.3 uS	283 uS	1	87.4	N/A	N/A
	High Channel 2464 MHz	N/A	N/A	5	N/A	N/A	N/A
Chain 3							
2400 MHz - 2483.5 MHz Band							
2.5MHz Bandwidth							
3x3 Modulation Type, BPSK, Coding Rate, 1/2.							
Low Channel 2403 MHz	992.2 uS	1.117 mS	1	88.8	N/A	N/A
Low Channel 2403 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2435 MHz	992.9 uS	1.117 mS	1	88.9	N/A	N/A
Mid Channel 2435 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2470 MHz	992.5 uS	1.117 mS	1	88.8	N/A	N/A
High Channel 2470 MHz	N/A	N/A	5	N/A	N/A	N/A
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.						
Low Channel 2403 MHz	992.2 uS	1.117 mS	1	88.8	N/A	N/A
Low Channel 2403 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2435 MHz	992.5 uS	1.117 mS	1	88.8	N/A	N/A
Mid Channel 2435 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2470 MHz	992.9 uS	1.117 mS	1	88.9	N/A	N/A
High Channel 2470 MHz	N/A	N/A	5	N/A	N/A	N/A
5MHz Bandwidth						
3x3 Modulation Type, BPSK, Coding Rate, 1/2.						
Low Channel 2406 MHz	496.4 uS	561.4 uS	1	88.4	N/A	N/A
Low Channel 2406 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2436 MHz	496.1 uS	561.1 uS	1	88.4	N/A	N/A
Mid Channel 2436 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2466 MHz	496.1 uS	560.9 uS	1	88.4	N/A	N/A
High Channel 2466 MHz	N/A	N/A	5	N/A	N/A	N/A
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.						
Low Channel 2406 MHz	495.9 uS	561.4 uS	1	88.3	N/A	N/A
Low Channel 2406 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2436 MHz	496.2 uS	561.4 uS	1	88.4	N/A	N/A
Mid Channel 2436 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2466 MHz	496.3 uS	561.1 uS	1	88.5	N/A	N/A
High Channel 2466 MHz	N/A	N/A	5	N/A	N/A	N/A
10MHz Bandwidth						
3x3 Modulation Type, BPSK, Coding Rate, 1/2.						
Low Channel 2409 MHz	247.1 uS	283.2 uS	1	87.3	N/A	N/A
Low Channel 2409 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2439 MHz	247.4 uS	283.3 uS	1	87.3	N/A	N/A
Mid Channel 2439 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2464 MHz	247.1 uS	282.8 uS	1	87.4	N/A	N/A
High Channel 2464 MHz	N/A	N/A	5	N/A	N/A	N/A
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.						
Low Channel 2409 MHz	247.1 uS	282.5 uS	1	87.5	N/A	N/A
Low Channel 2409 MHz	N/A	N/A	5	N/A	N/A	N/A
Mid Channel 2439 MHz	247.1 uS	283.2 uS	1	87.3	N/A	N/A
Mid Channel 2439 MHz	N/A	N/A	5	N/A	N/A	N/A
High Channel 2464 MHz	247.6 uS	283 uS	1	87.5	N/A	N/A
High Channel 2464 MHz	N/A	N/A	5	N/A	N/A	N/A

DUTY CYCLE - 3x3 MIMO

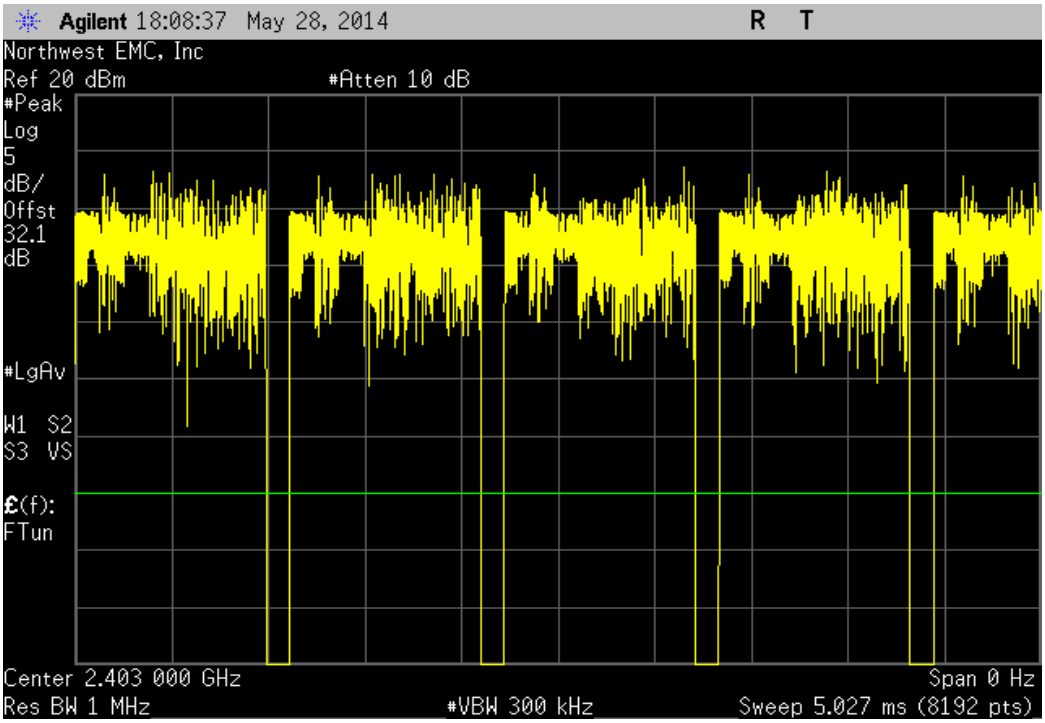
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2403 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	992.9 uS	1.117 mS	1	88.9	N/A	N/A



Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2403 MHz

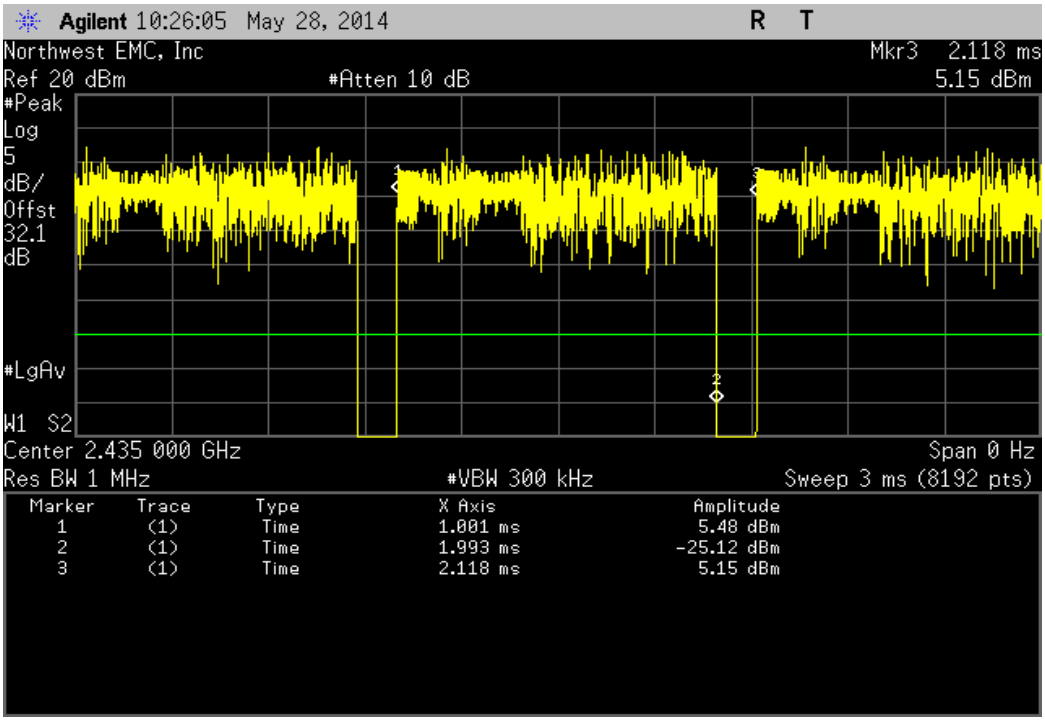
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 3x3 MIMO

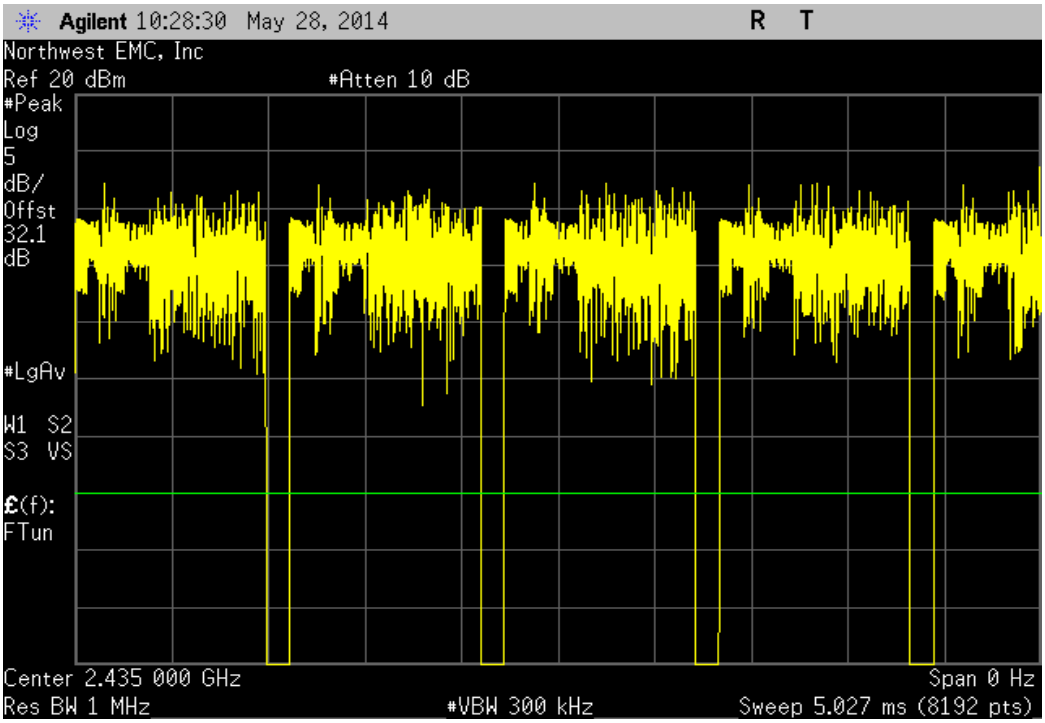
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2435 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	992.2 uS	1.117 mS	1	88.8	N/A	N/A



Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2435 MHz

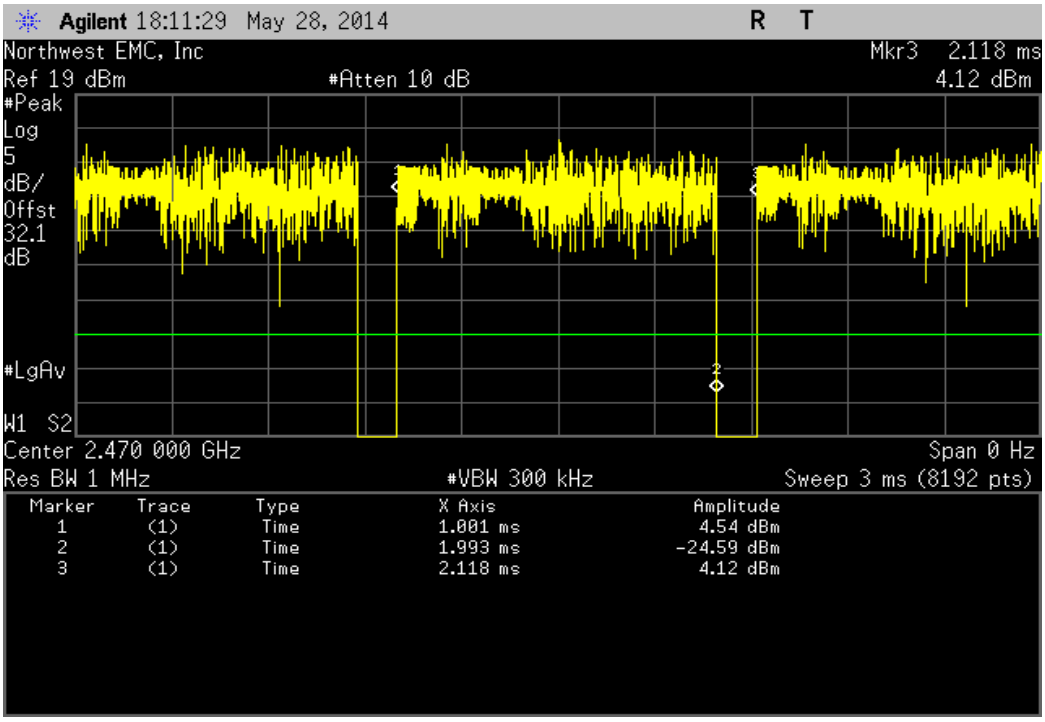
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 3x3 MIMO

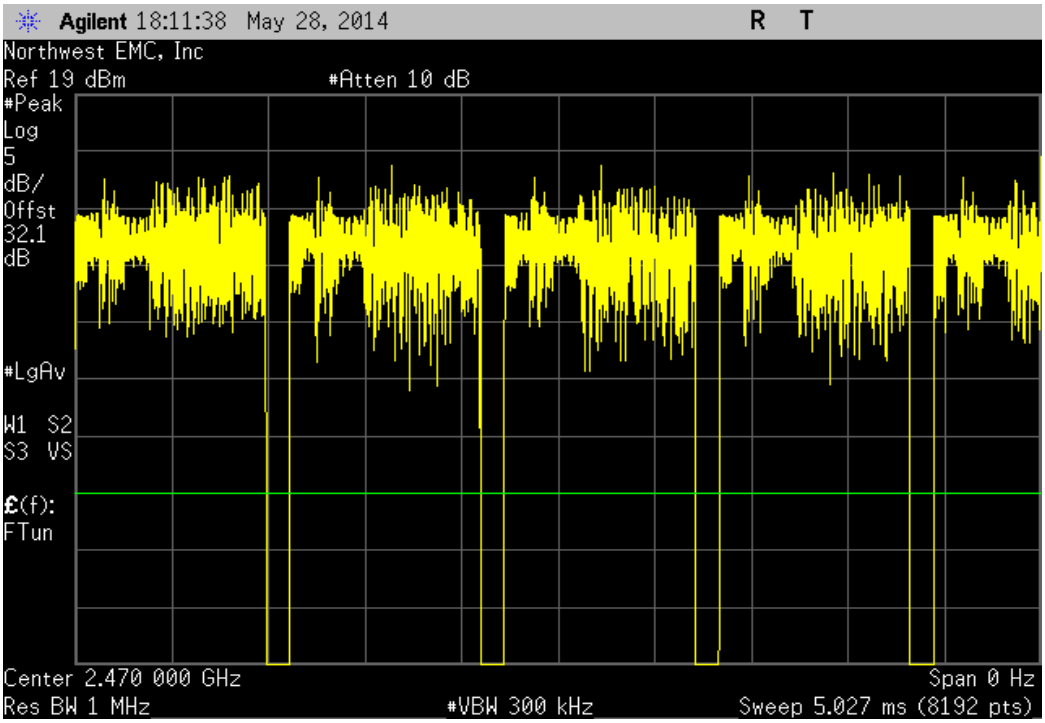
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2470 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	992.2 uS	1.117 mS	1	88.8	N/A	N/A



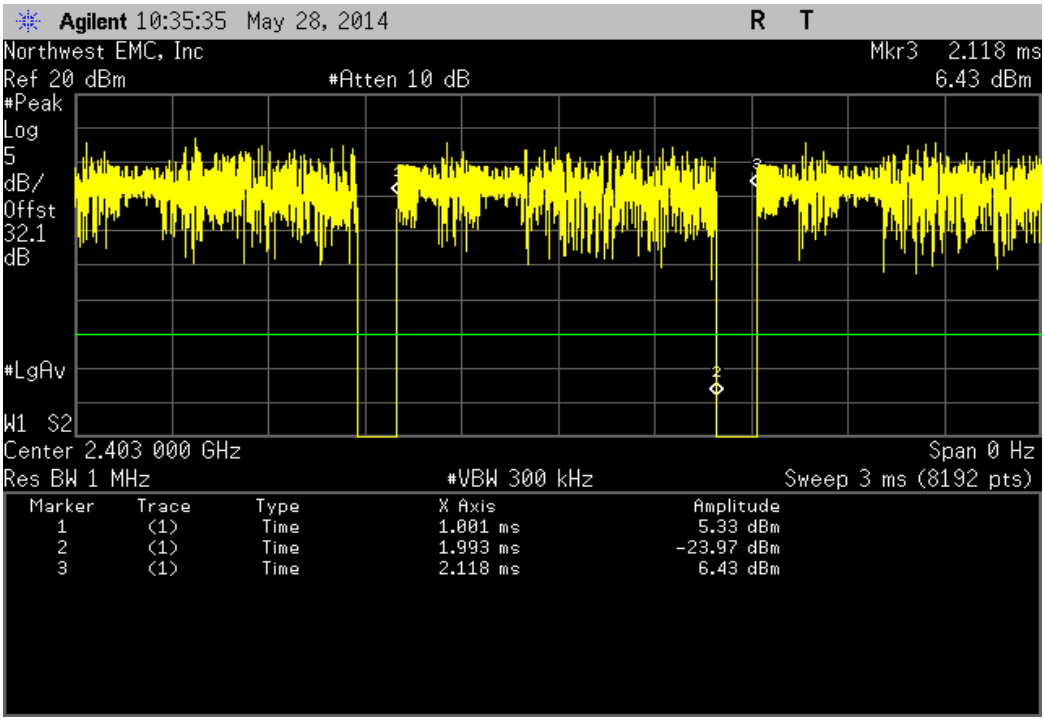
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2470 MHz

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



DUTY CYCLE - 3x3 MIMO

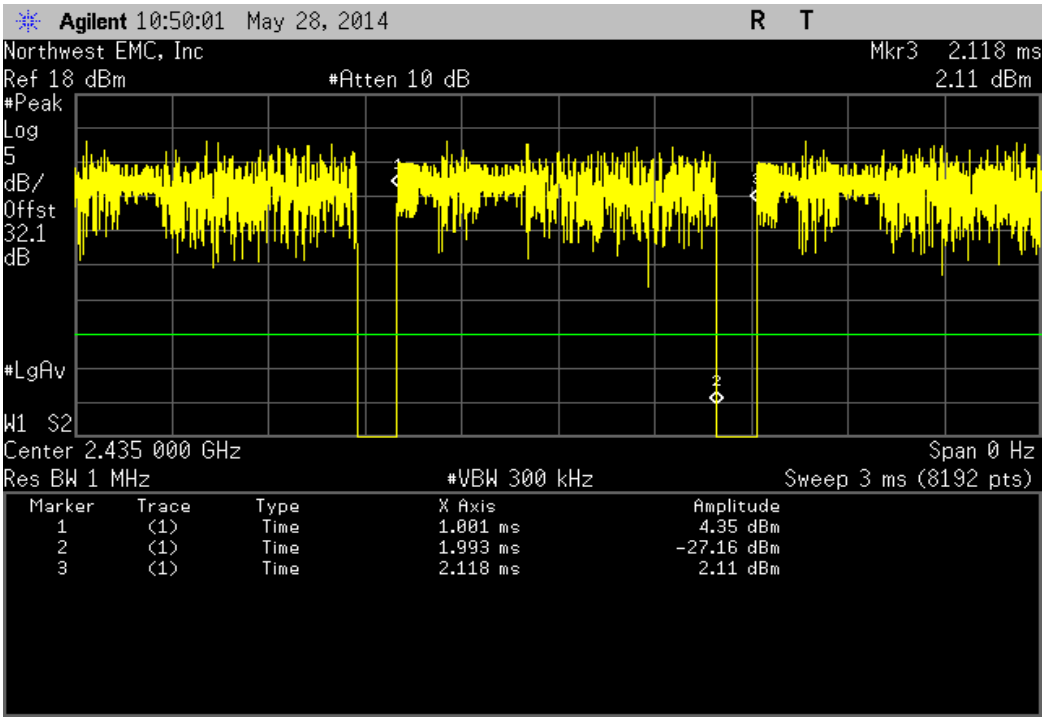
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2403 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	991.8 uS	1.117 mS	1	88.8	N/A	N/A



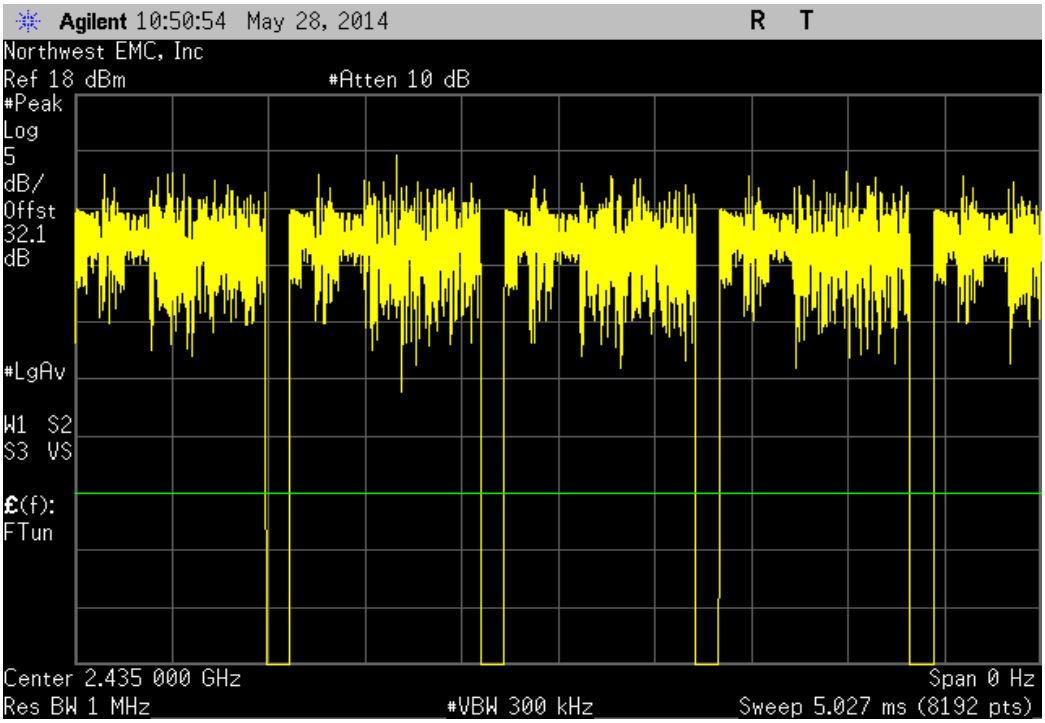
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2403 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

DUTY CYCLE - 3x3 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2435 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	991.8 uS	1.117 mS	1	88.8	N/A	N/A



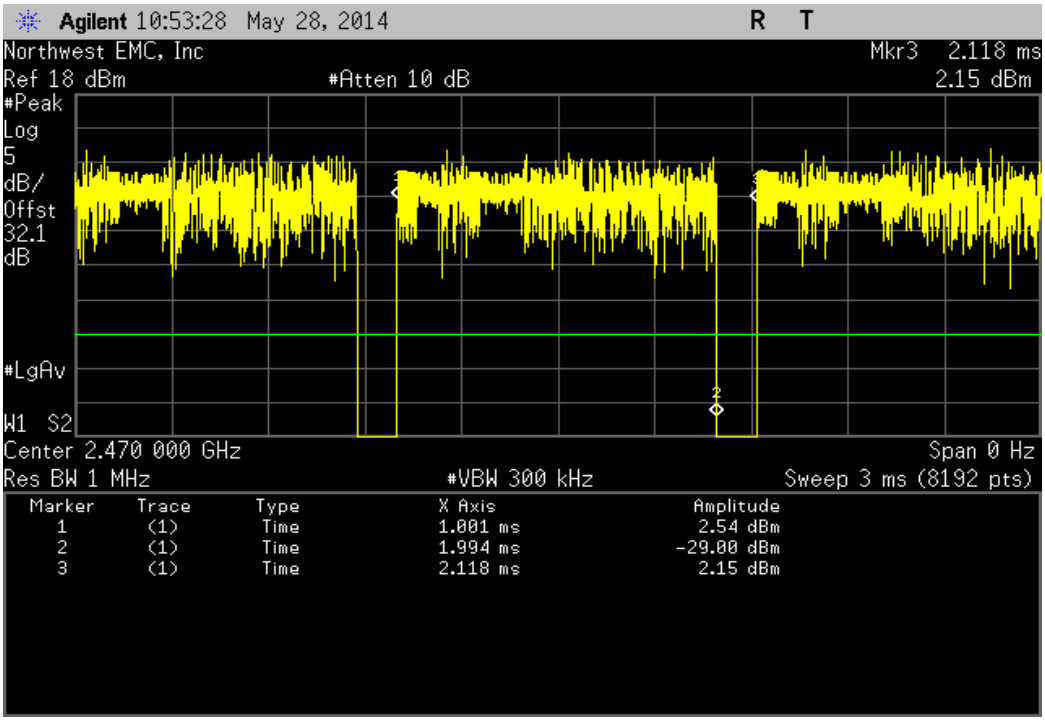
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2435 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 3x3 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2470 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	992.5 uS	1.117 mS	1	88.8	N/A	N/A



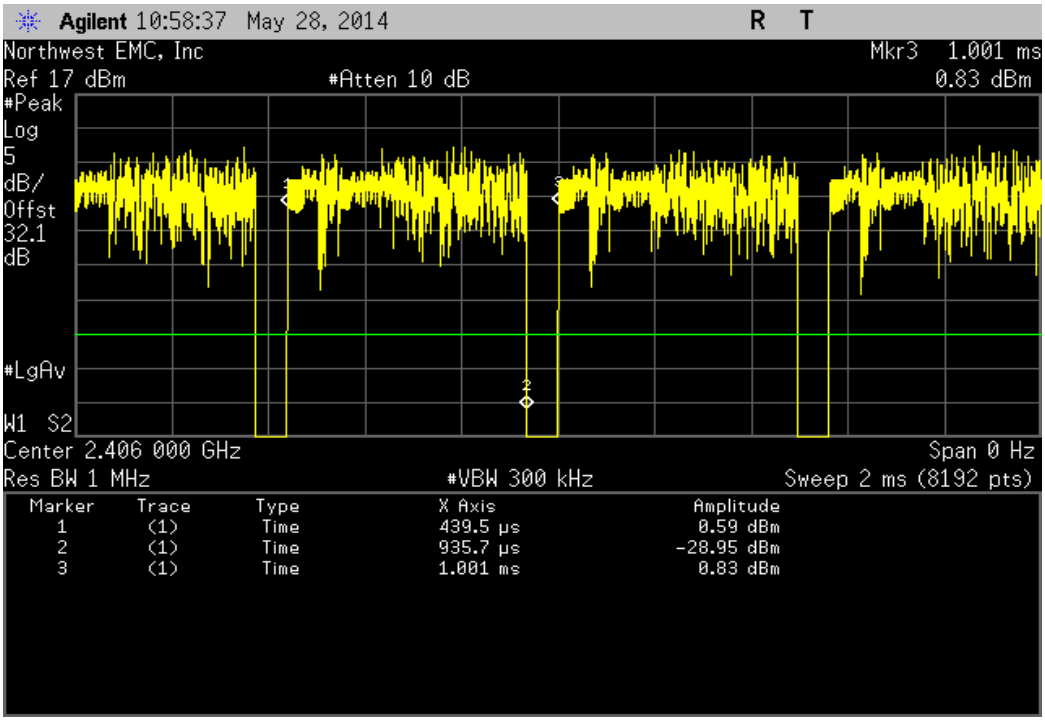
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2470 MHz

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

DUTY CYCLE - 3x3 MIMO

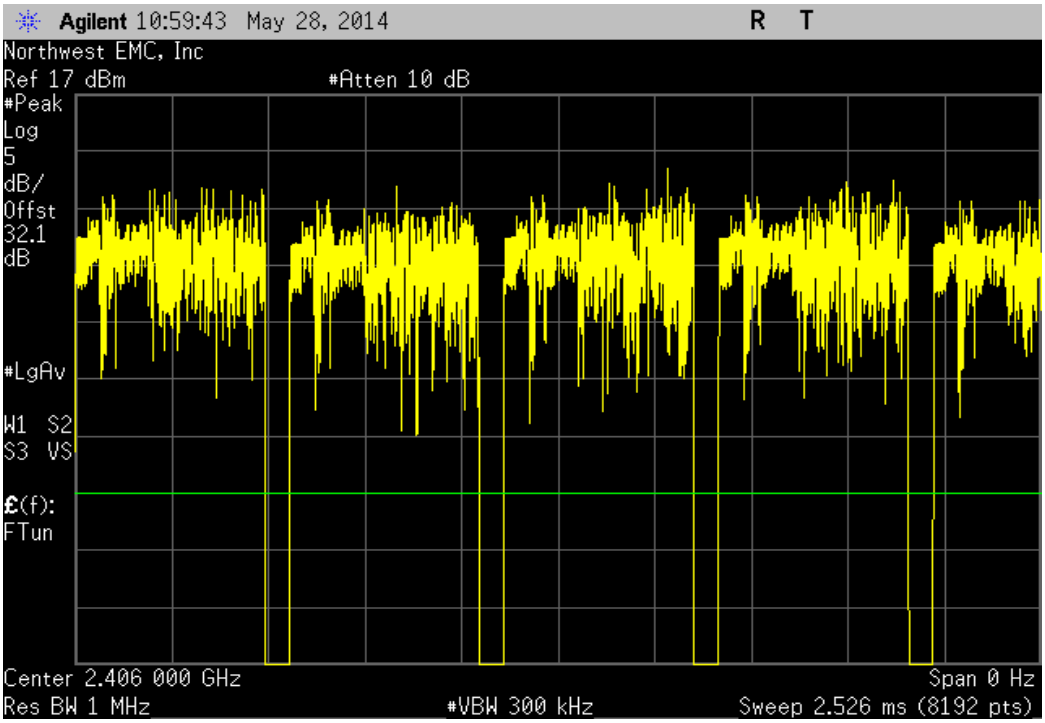
Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2406 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	496.2 uS	561.4 uS	1	88.4	N/A	N/A



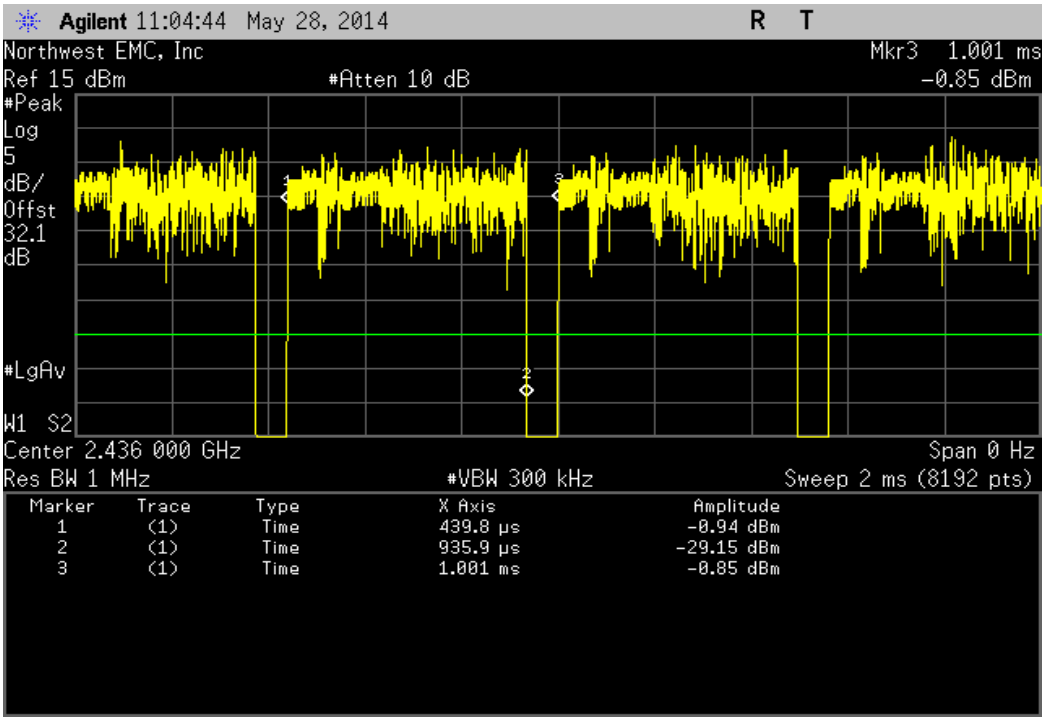
Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2406 MHz

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

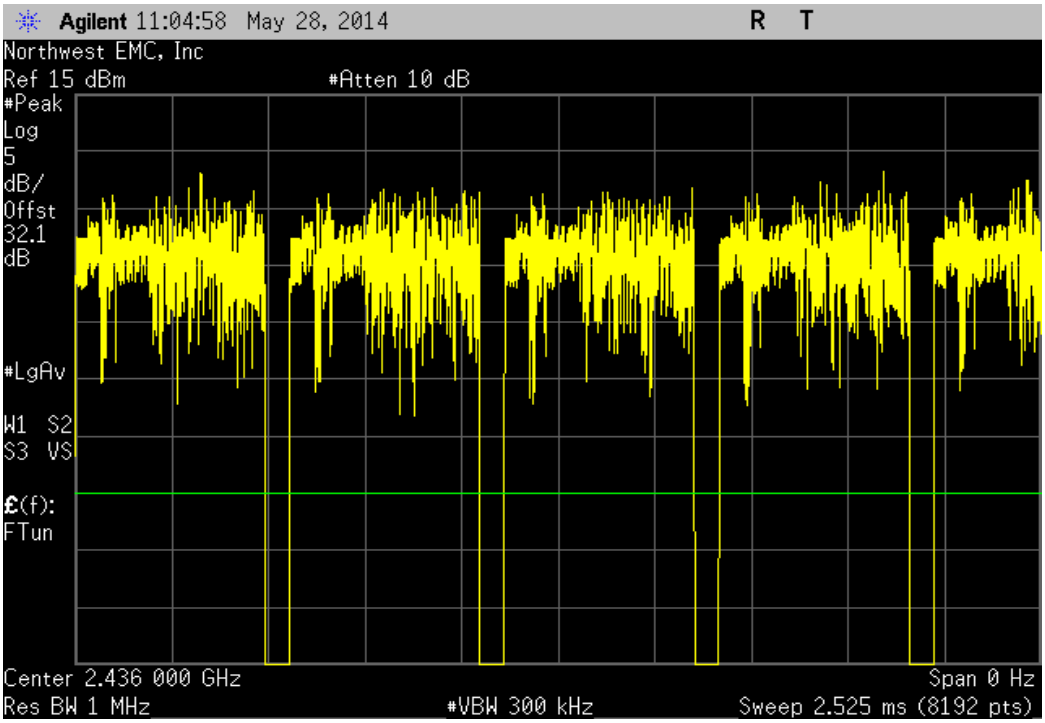


DUTY CYCLE - 3x3 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2436 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	496.1 uS	561.1 uS	1	88.4	N/A	N/A

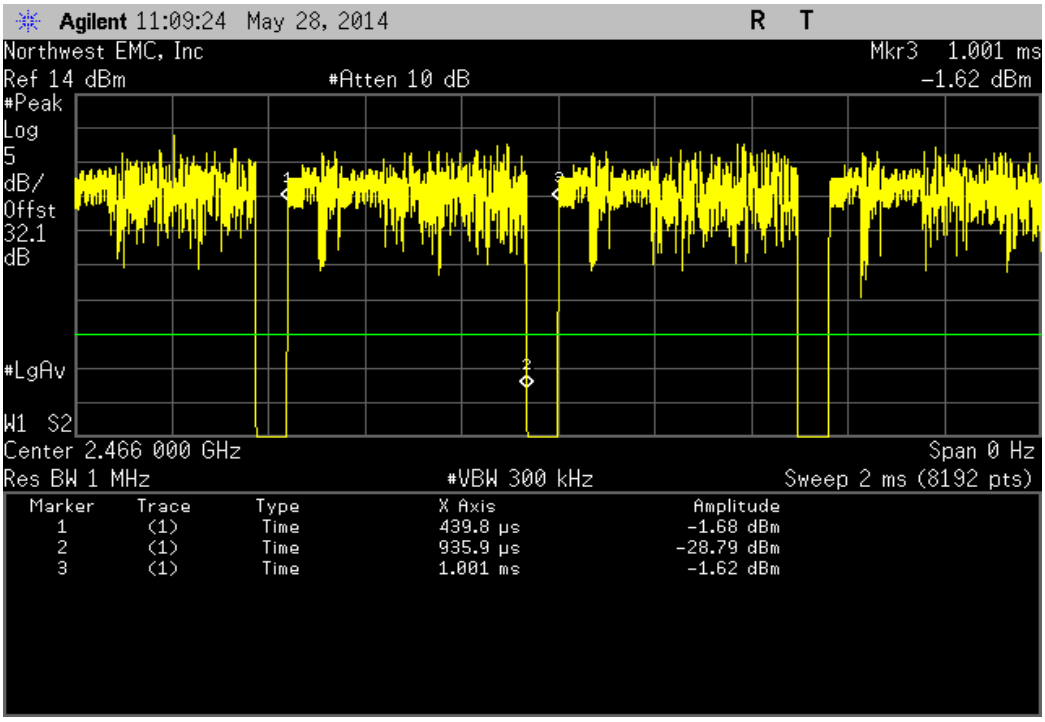


Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2436 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

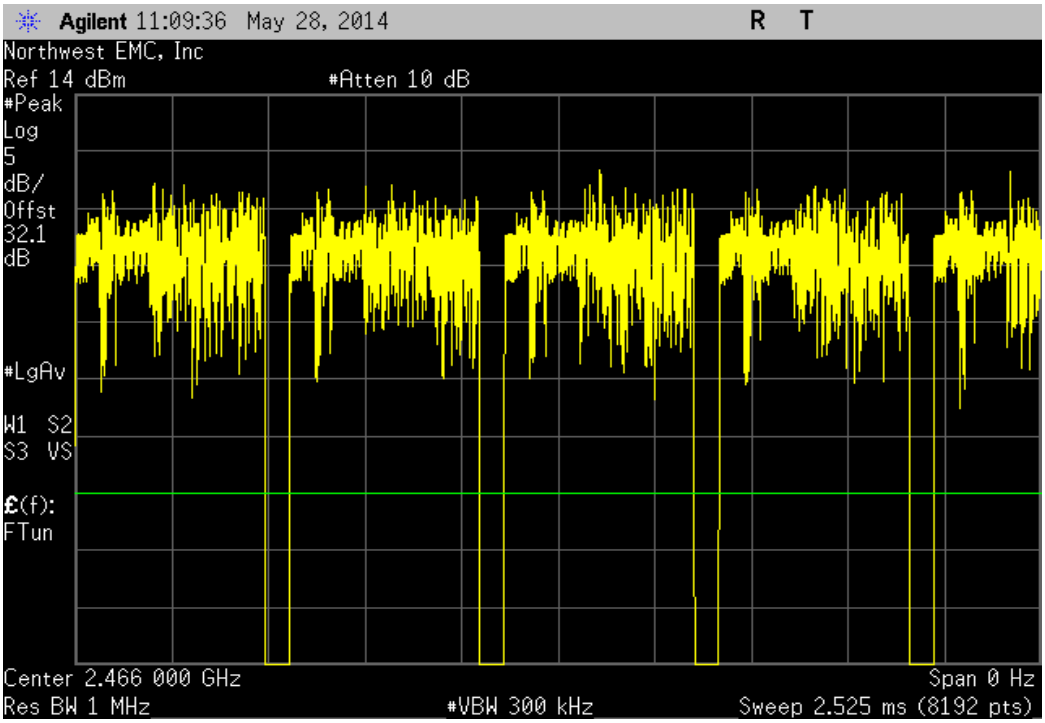


DUTY CYCLE - 3x3 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2466 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	496.1 uS	561.1 uS	1	88.4	N/A	N/A

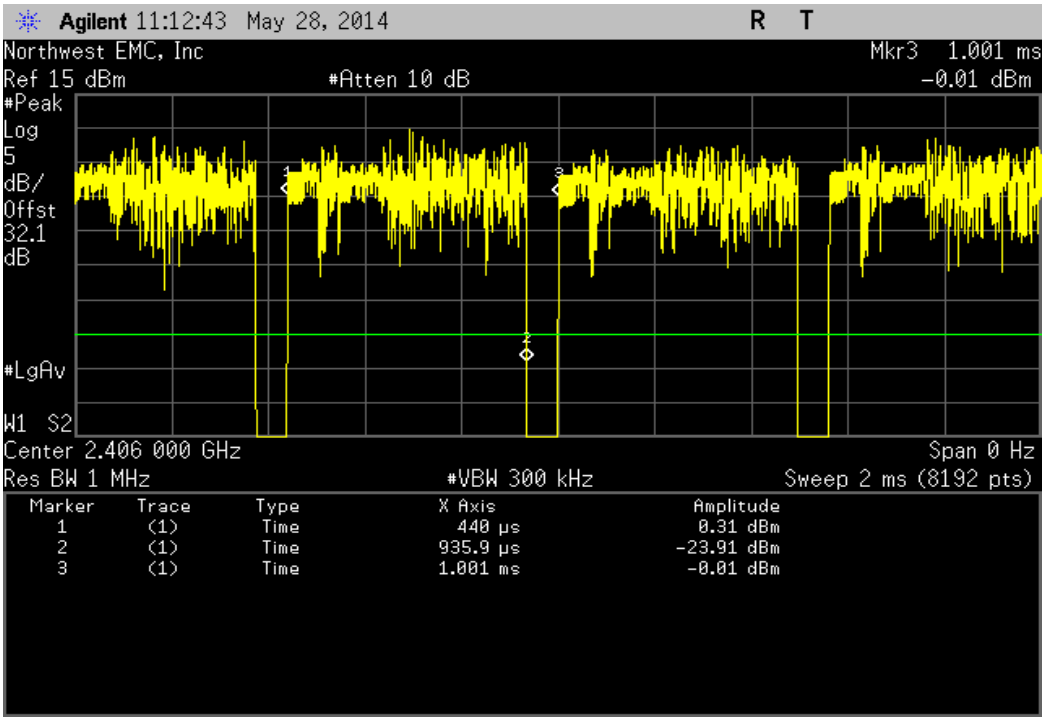


Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2466 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

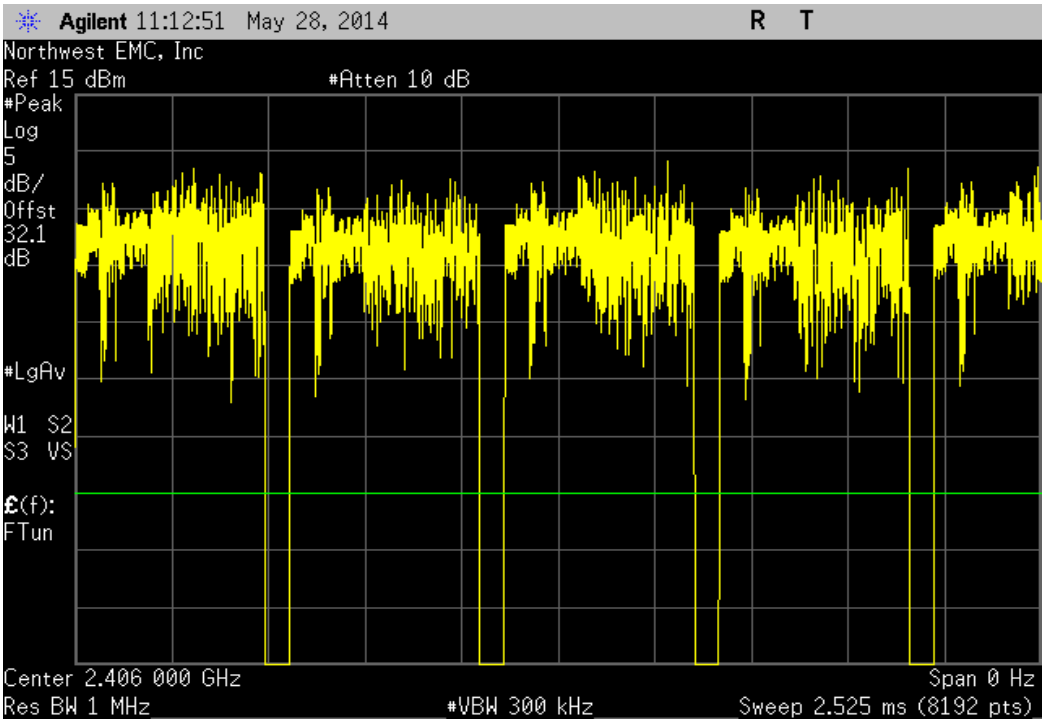


DUTY CYCLE - 3x3 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2406 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	495.9 uS	561.1 uS	1	88.4	N/A	N/A

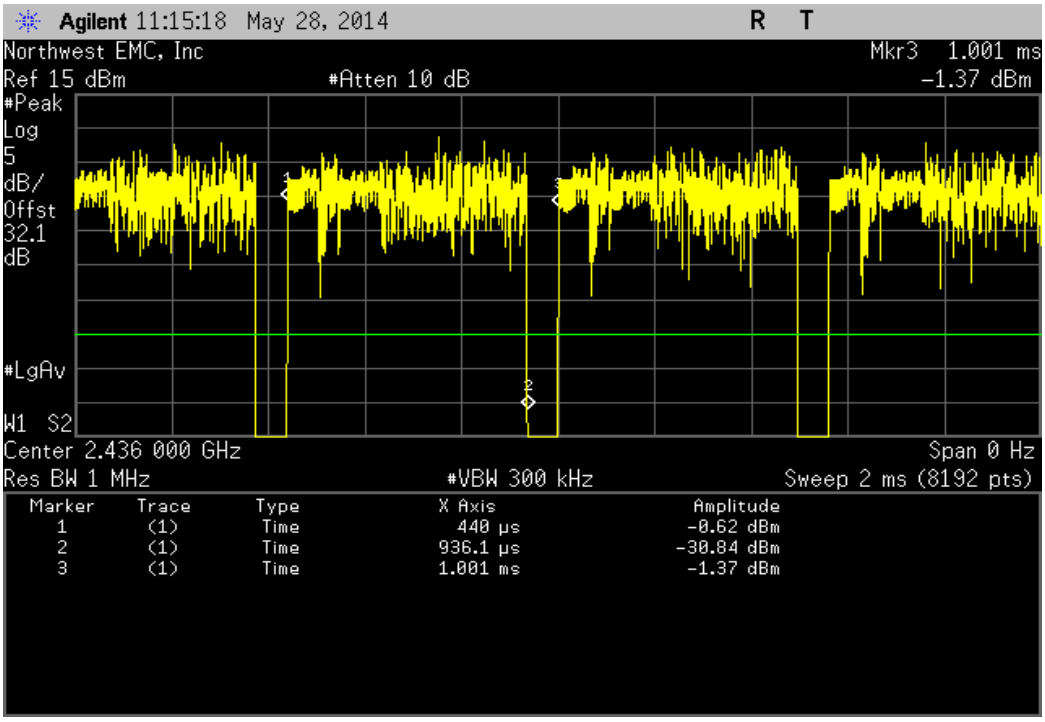


Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2406 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

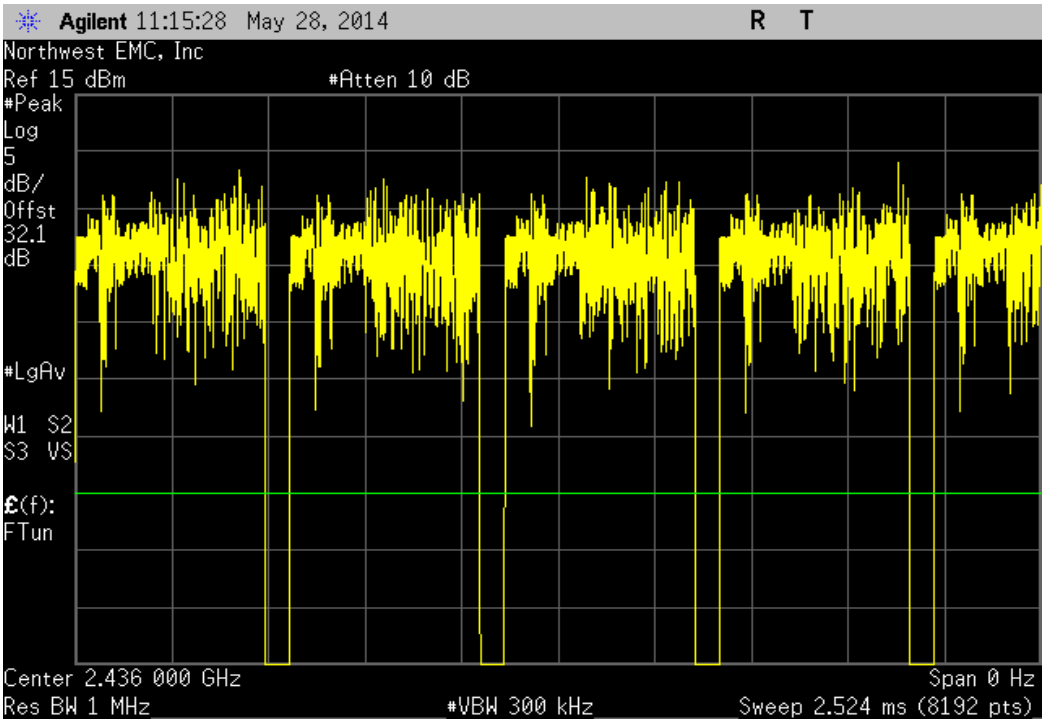


DUTY CYCLE - 3x3 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2436 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	496.1 uS	560.9 uS	1	88.4	N/A	N/A

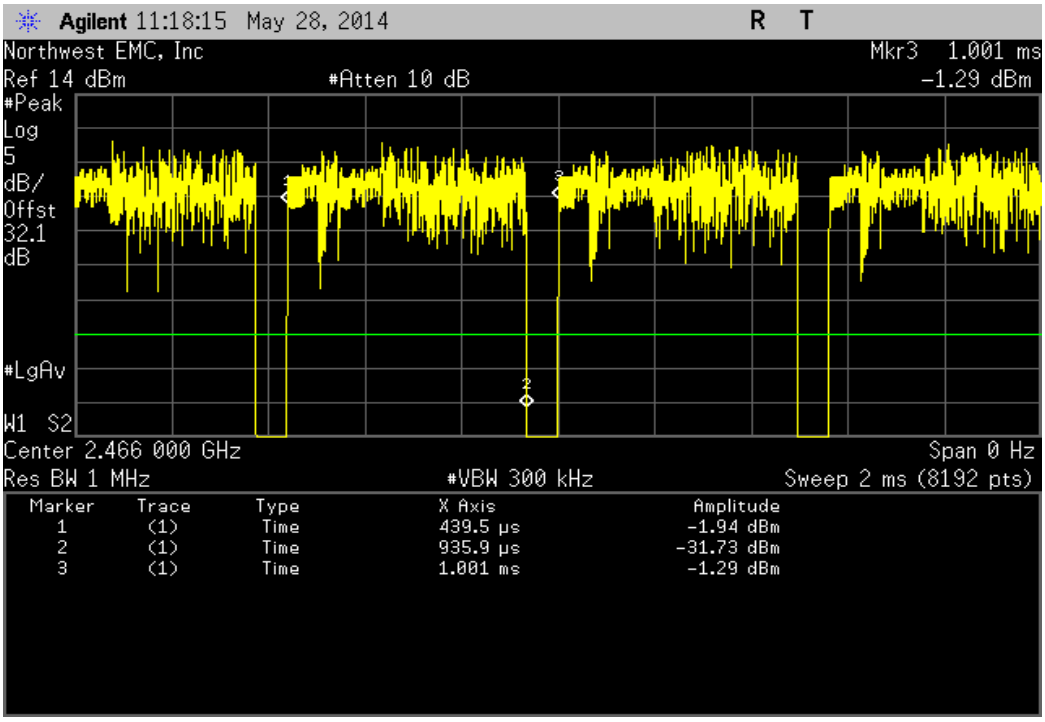


Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2436 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

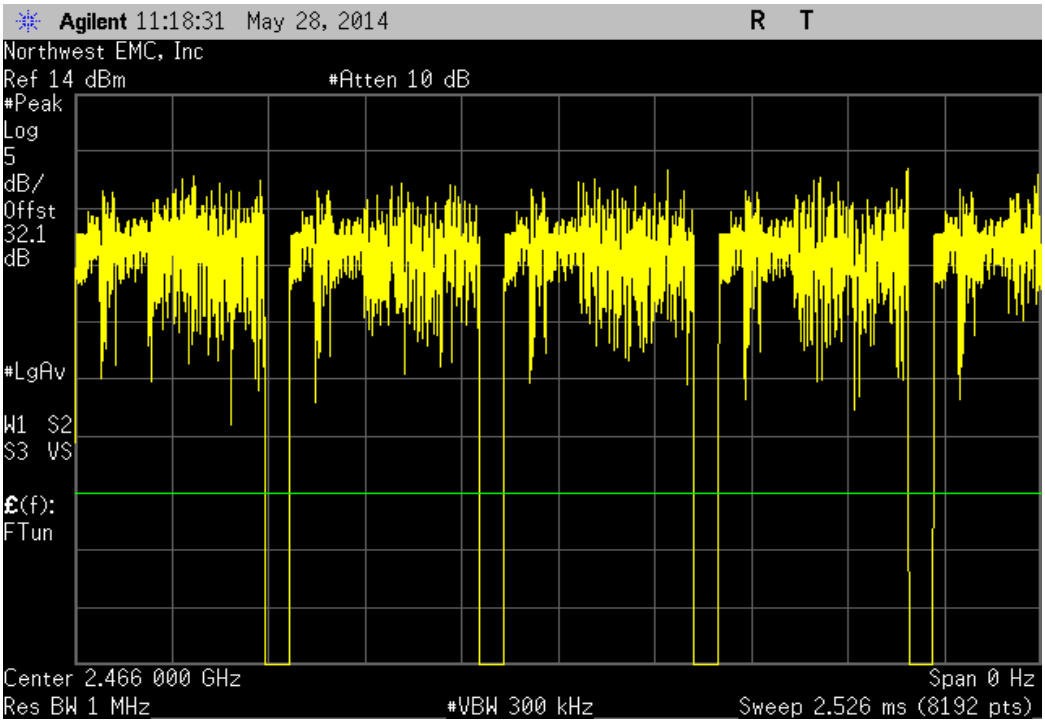


DUTY CYCLE - 3x3 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2466 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	496.4 uS	561.4 uS	1	88.4	N/A	N/A

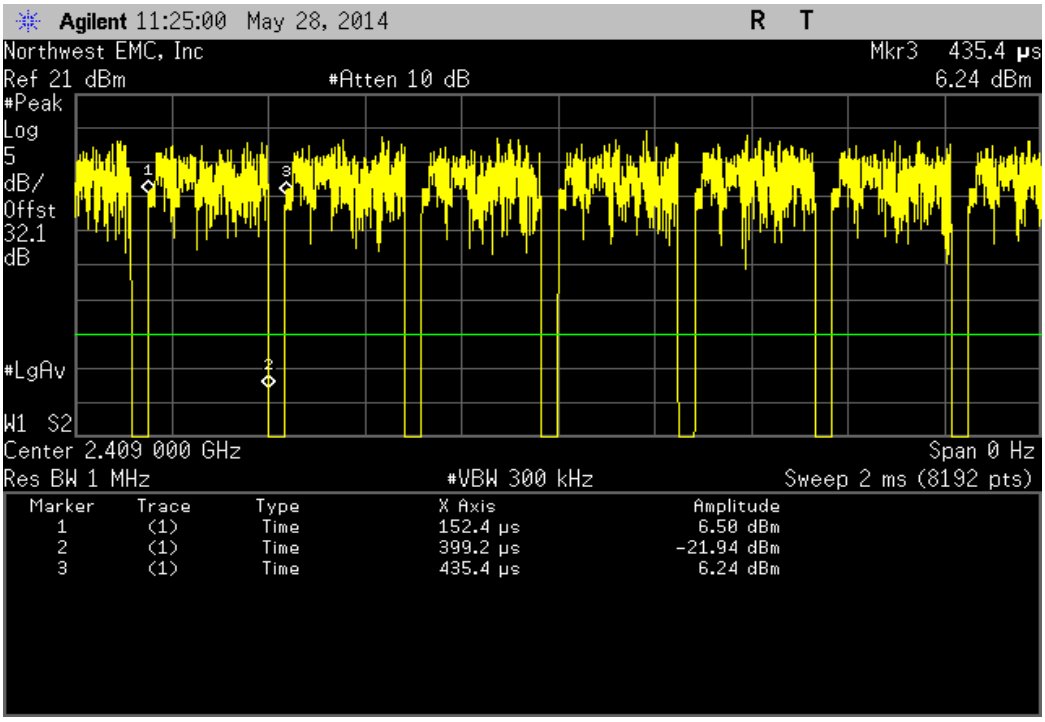


Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2466 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

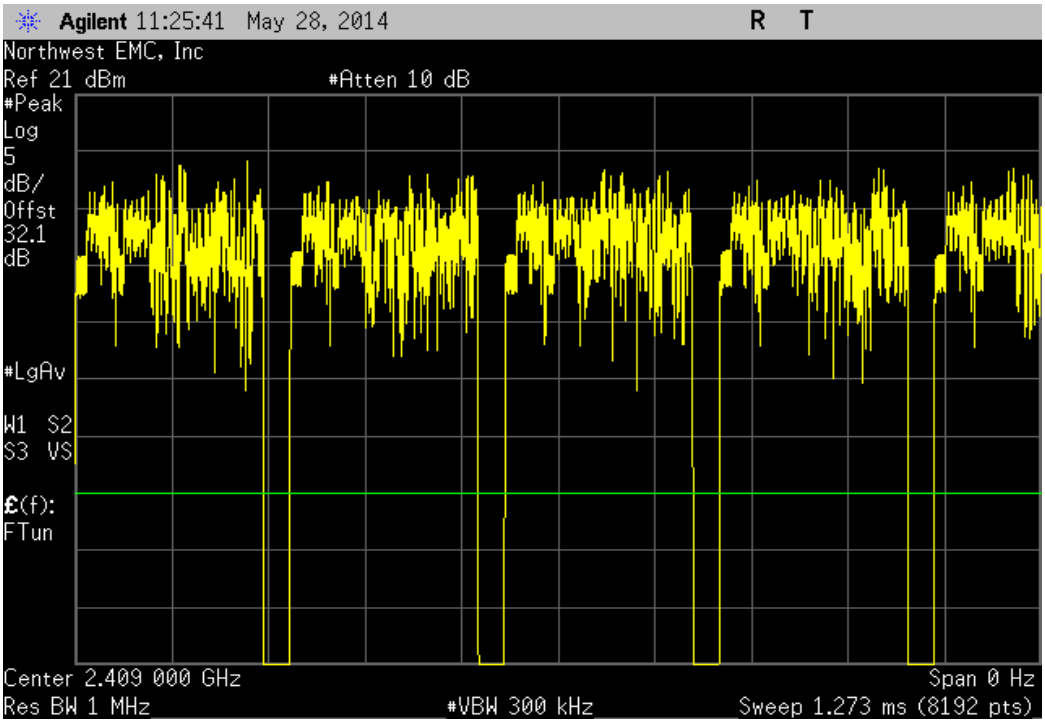


DUTY CYCLE - 3x3 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2409 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	246.8 uS	283 uS	1	87.2	N/A	N/A

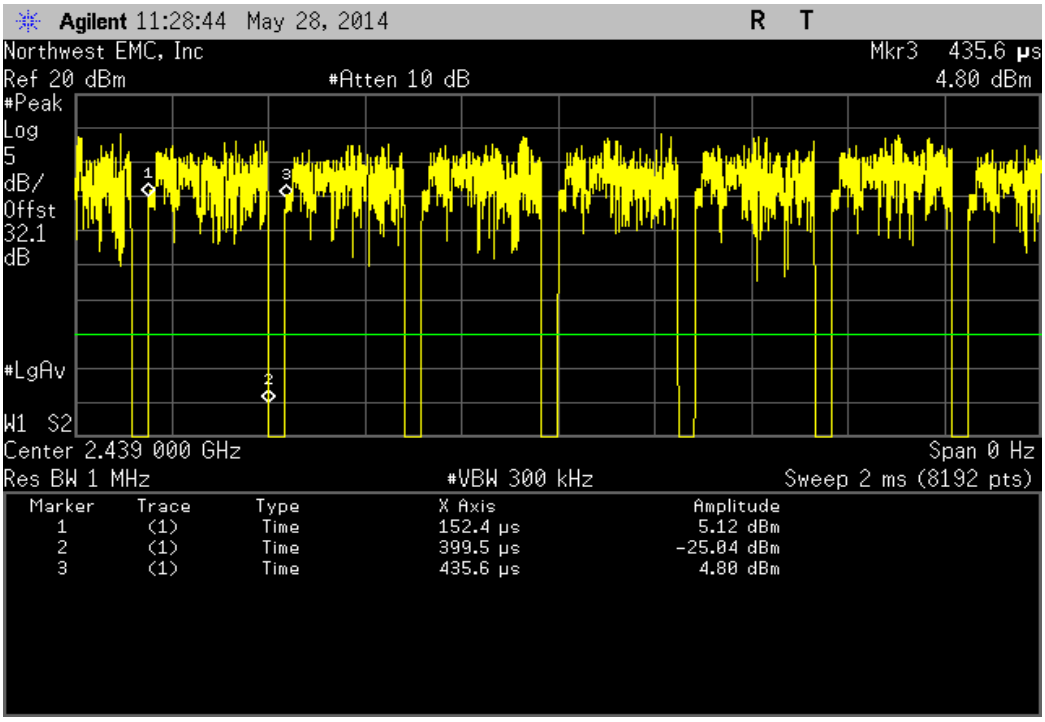


Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2409 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

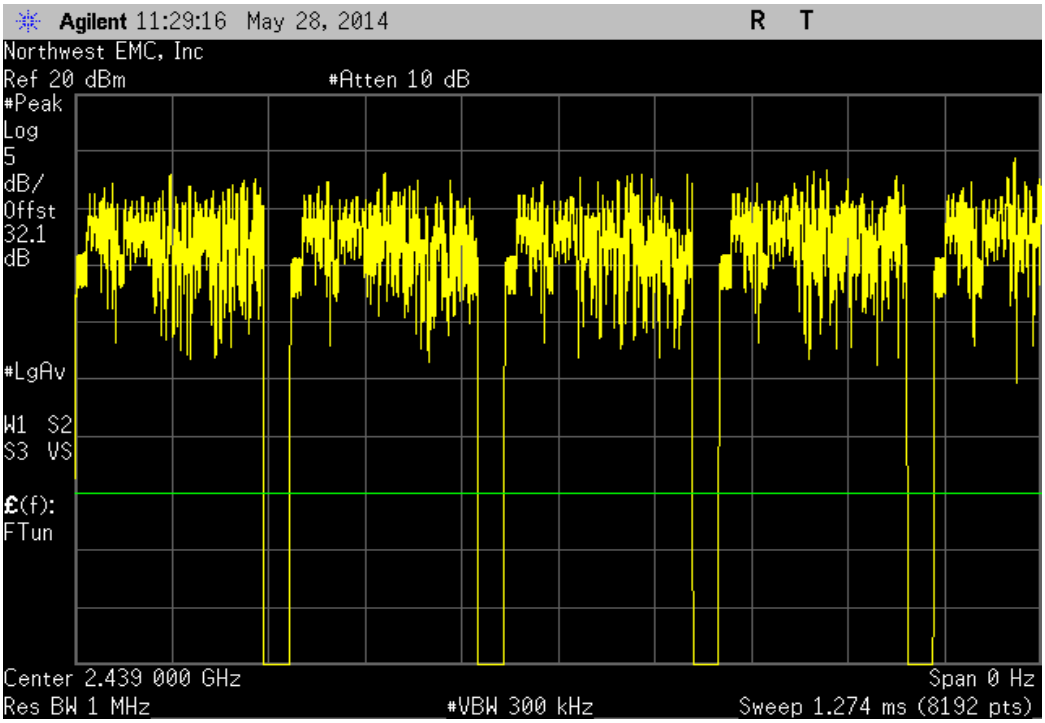


DUTY CYCLE - 3x3 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2439 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	247.1 uS	283.2 uS	1	87.3	N/A	N/A

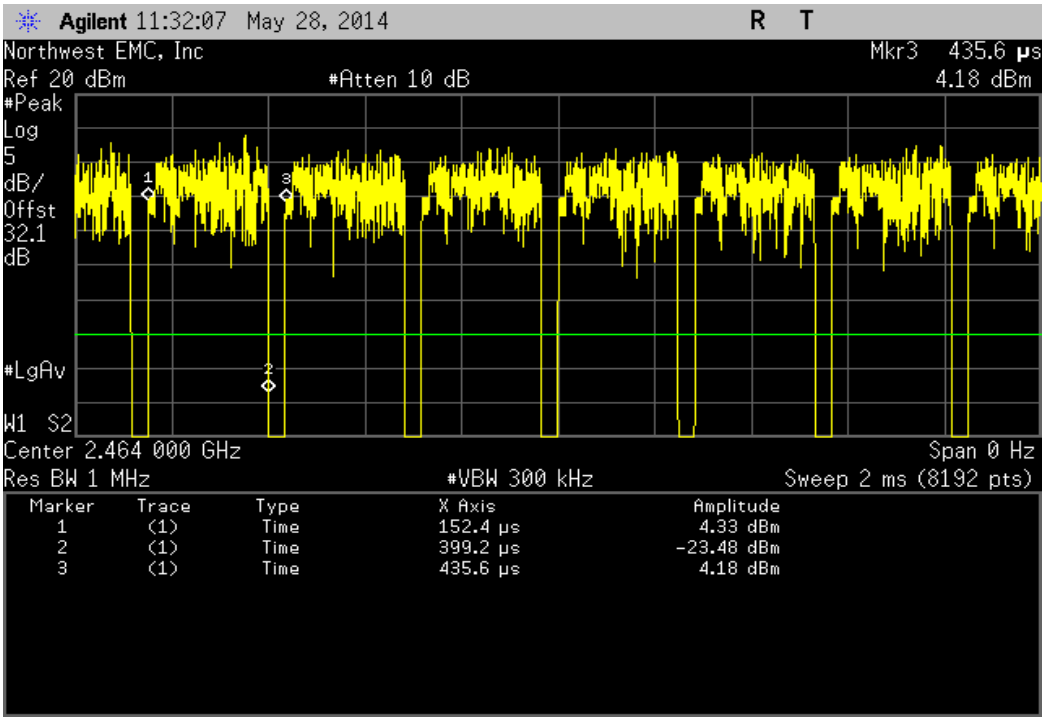


Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2439 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

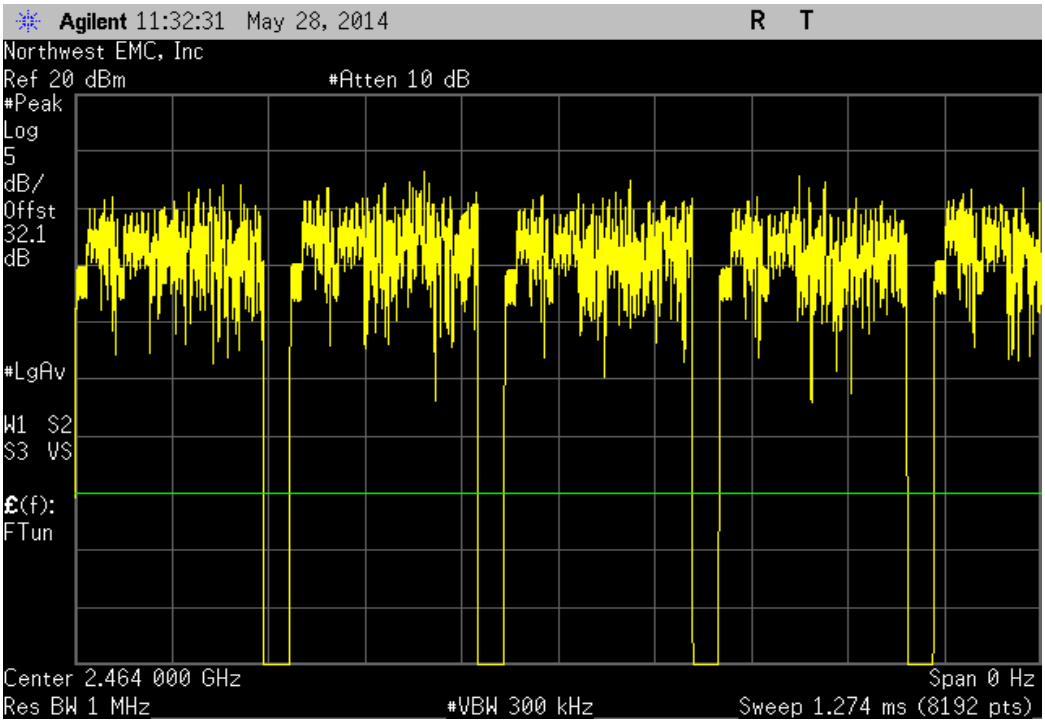


DUTY CYCLE - 3x3 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2464 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	246.8 uS	283.2 uS	1	87.1	N/A	N/A

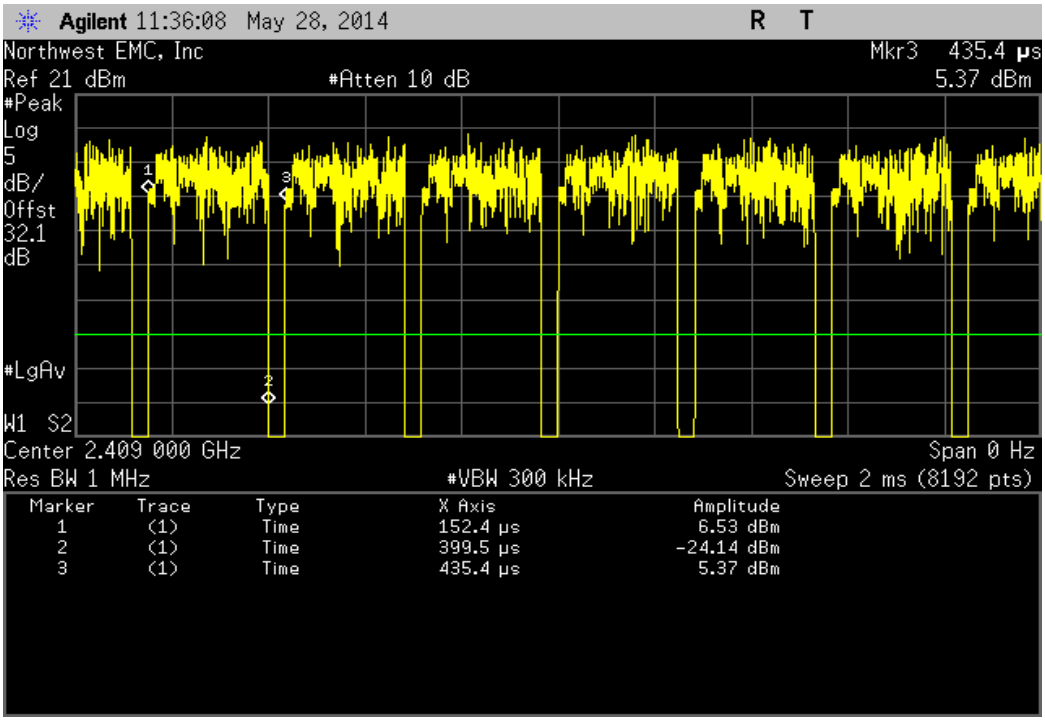


Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2464 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	6	N/A	N/A	N/A

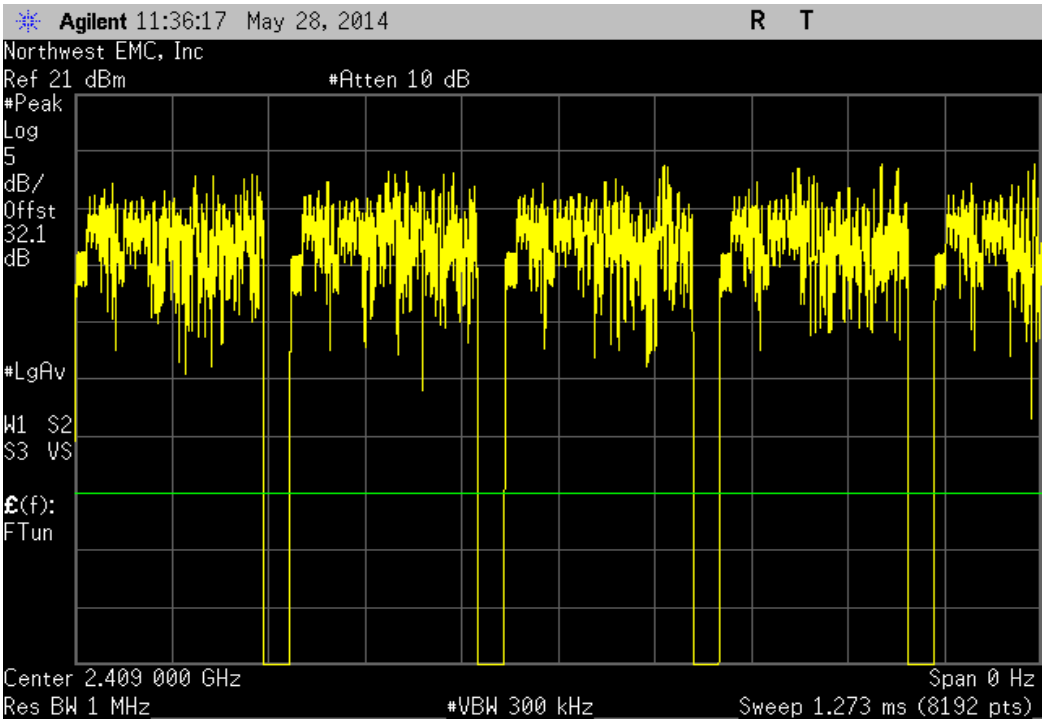


DUTY CYCLE - 3x3 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2409 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	247.1 uS	283 uS	1	87.3	N/A	N/A

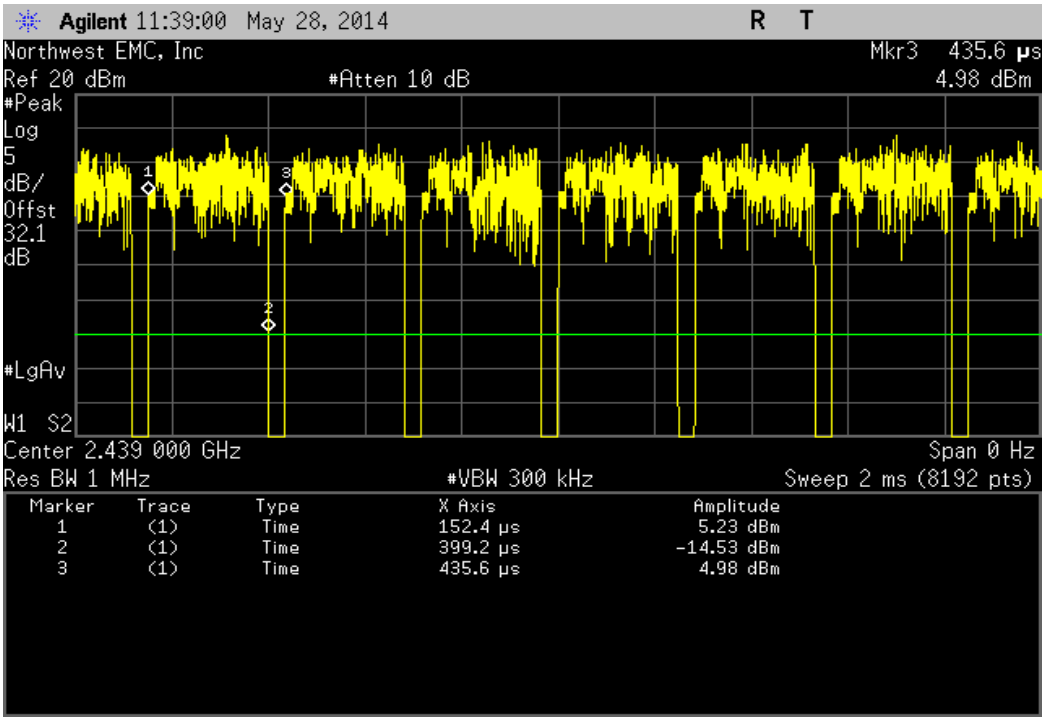


Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2409 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

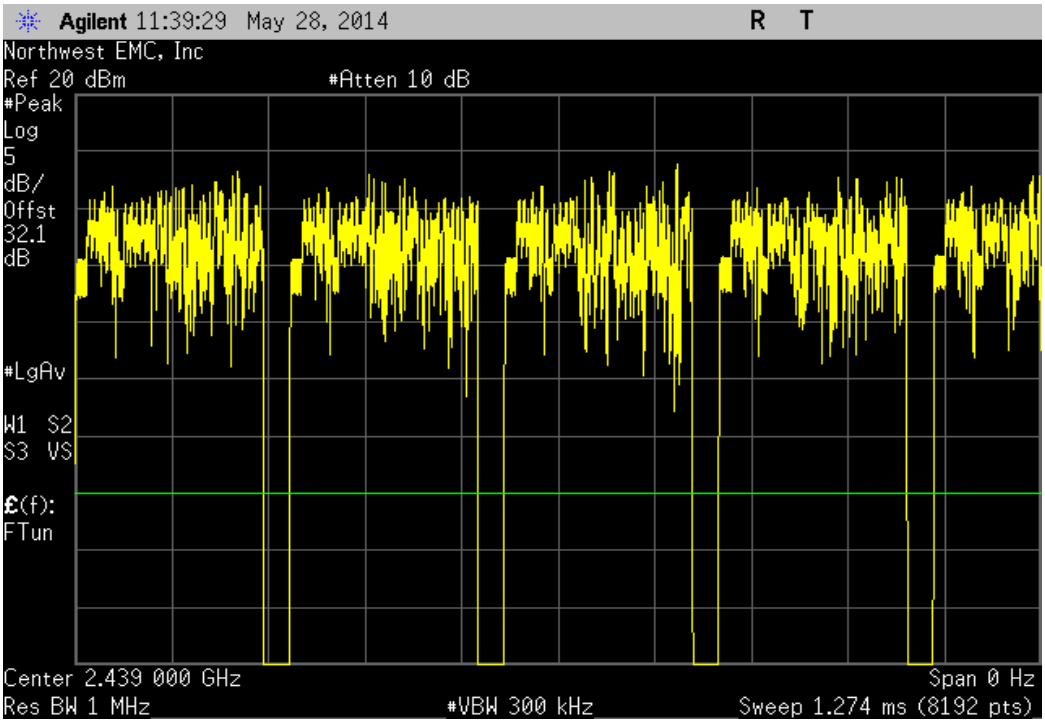


DUTY CYCLE - 3x3 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2439 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	246.8 uS	283.2 uS	1	87.1	N/A	N/A

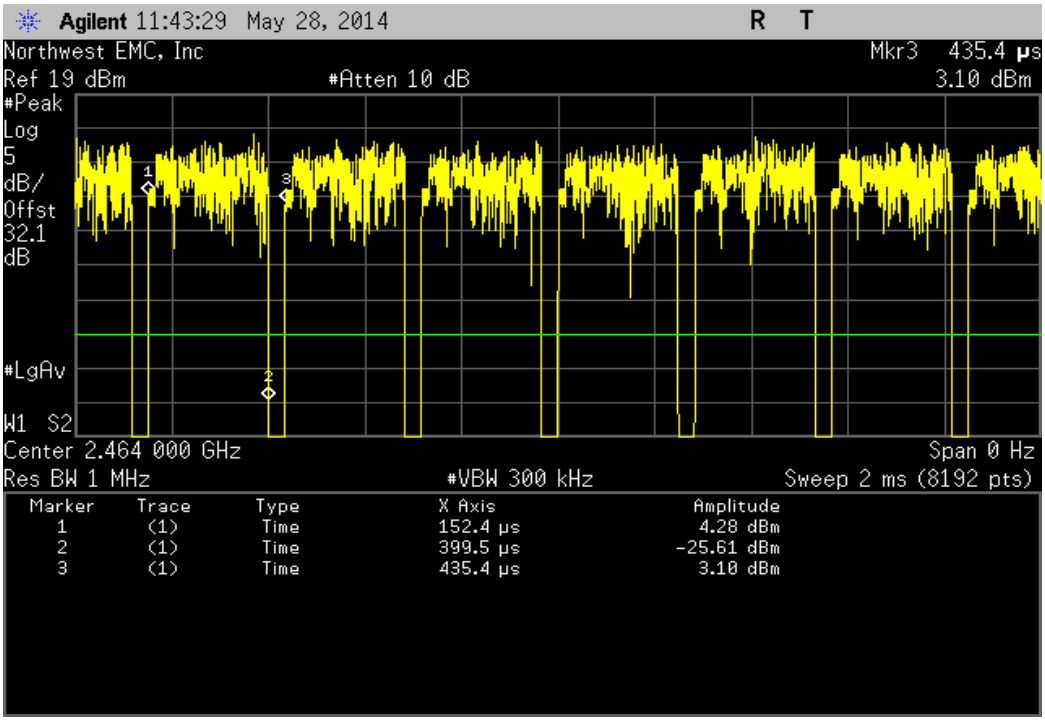


Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2439 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

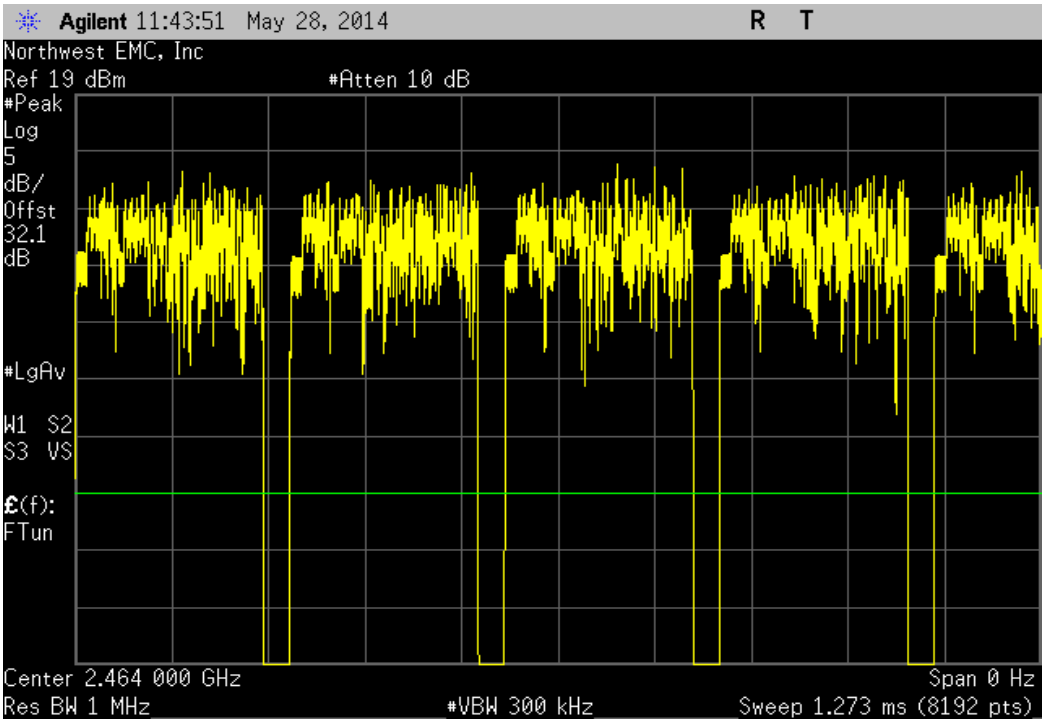


DUTY CYCLE - 3x3 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2464 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	247.1 uS	283 uS	1	87.3	N/A	N/A



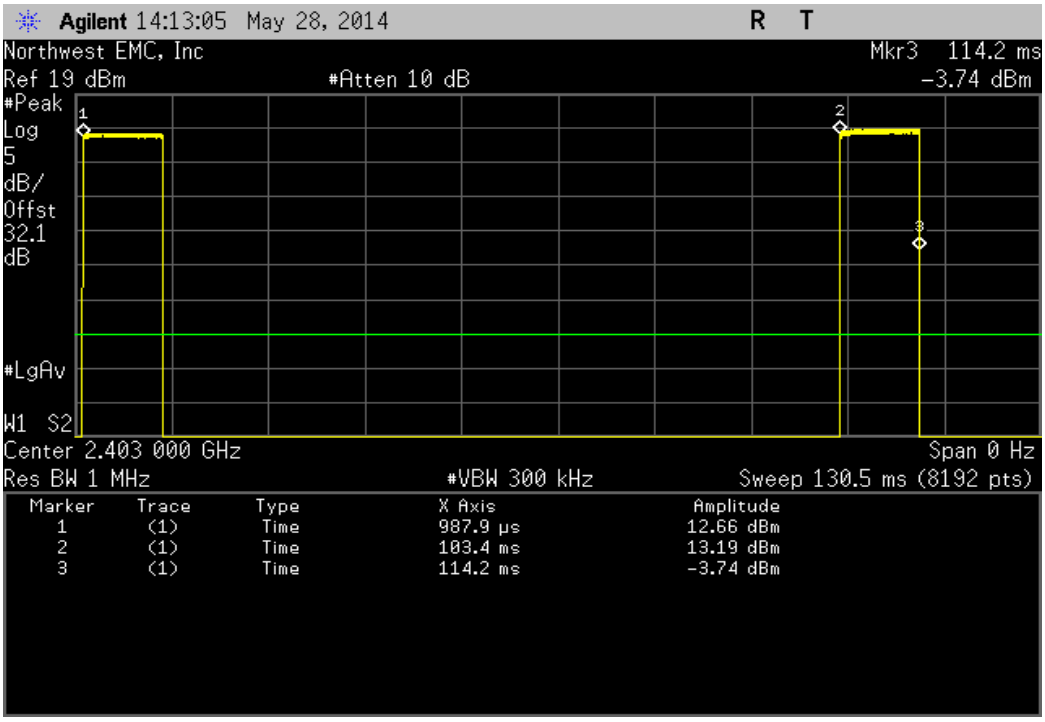
Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2464 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 3x3 MIMO

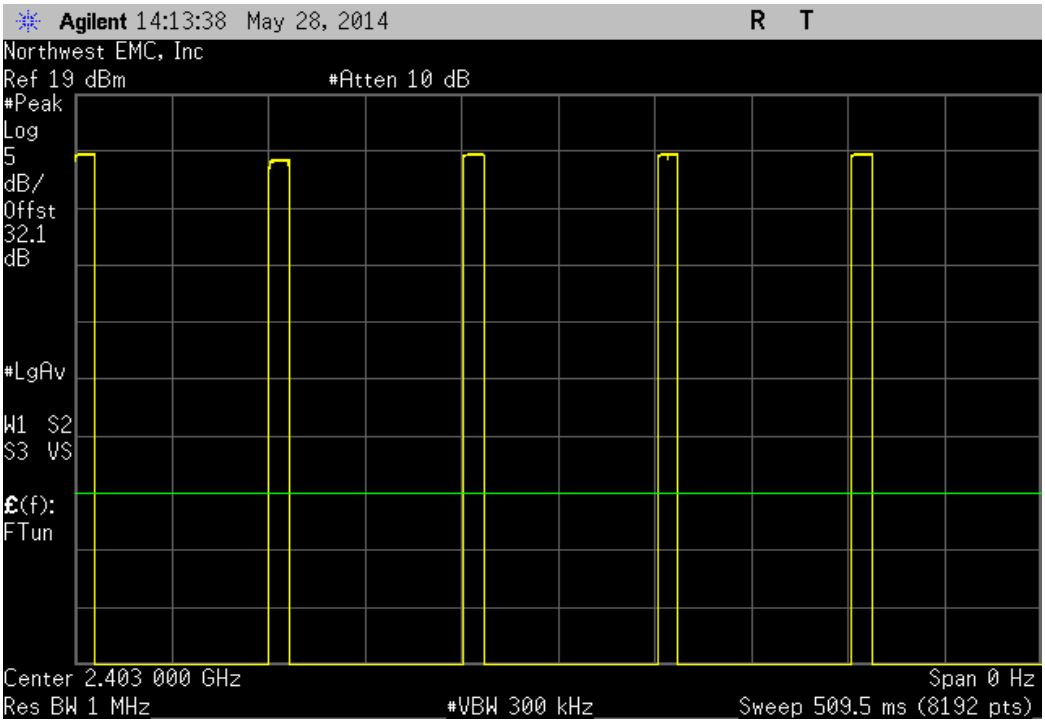
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2403 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	102.406 mS	113.165 mS	1	90.5	N/A	N/A



Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2403 MHz

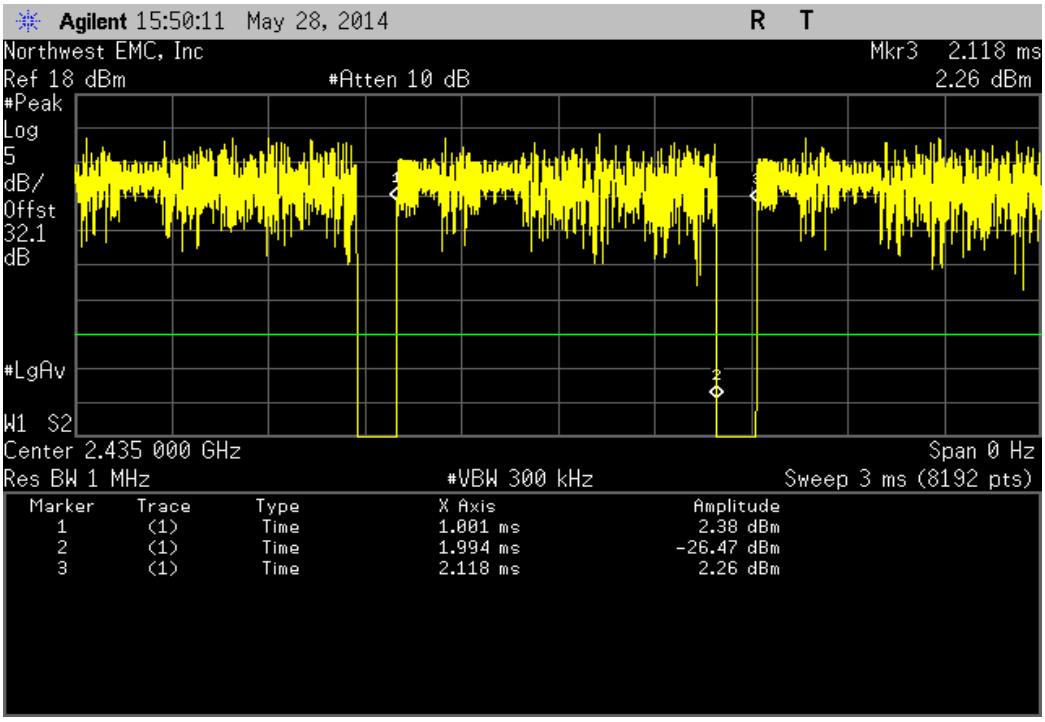
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 3x3 MIMO

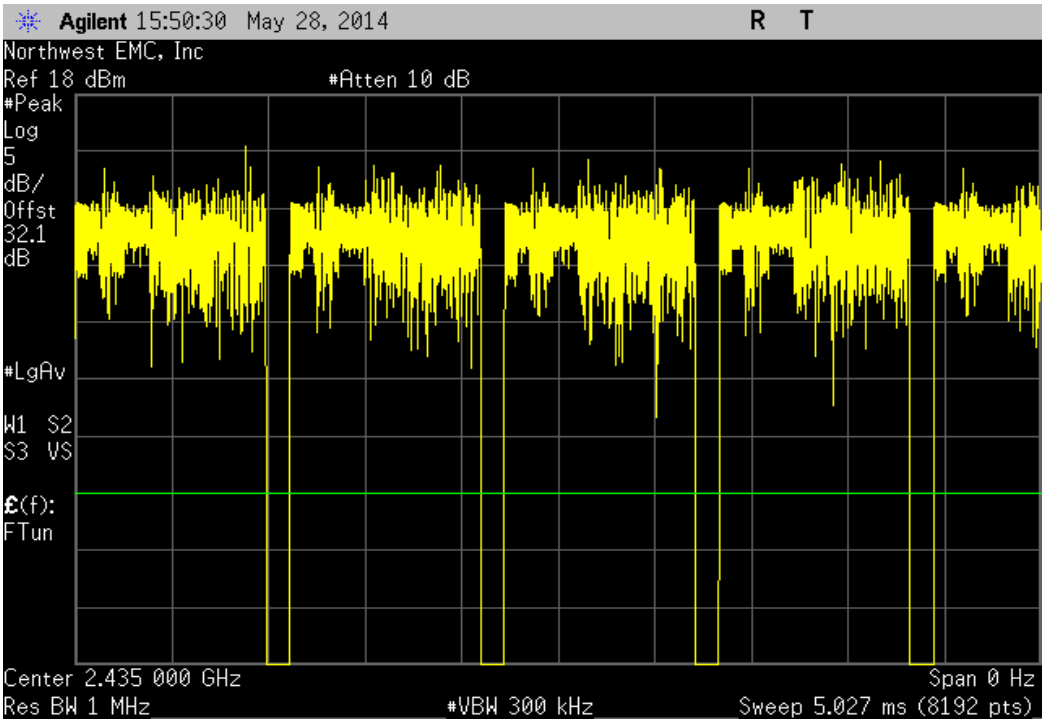
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2435 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	993.3 uS	1.117 mS	1	88.9	N/A	N/A



Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2435 MHz

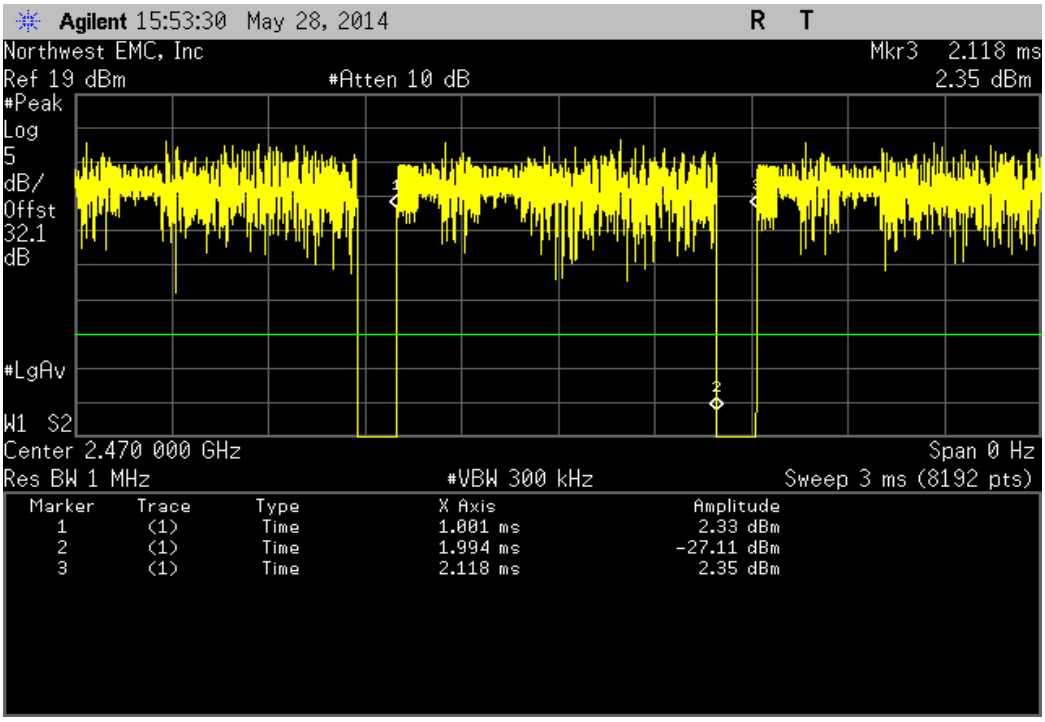
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 3x3 MIMO

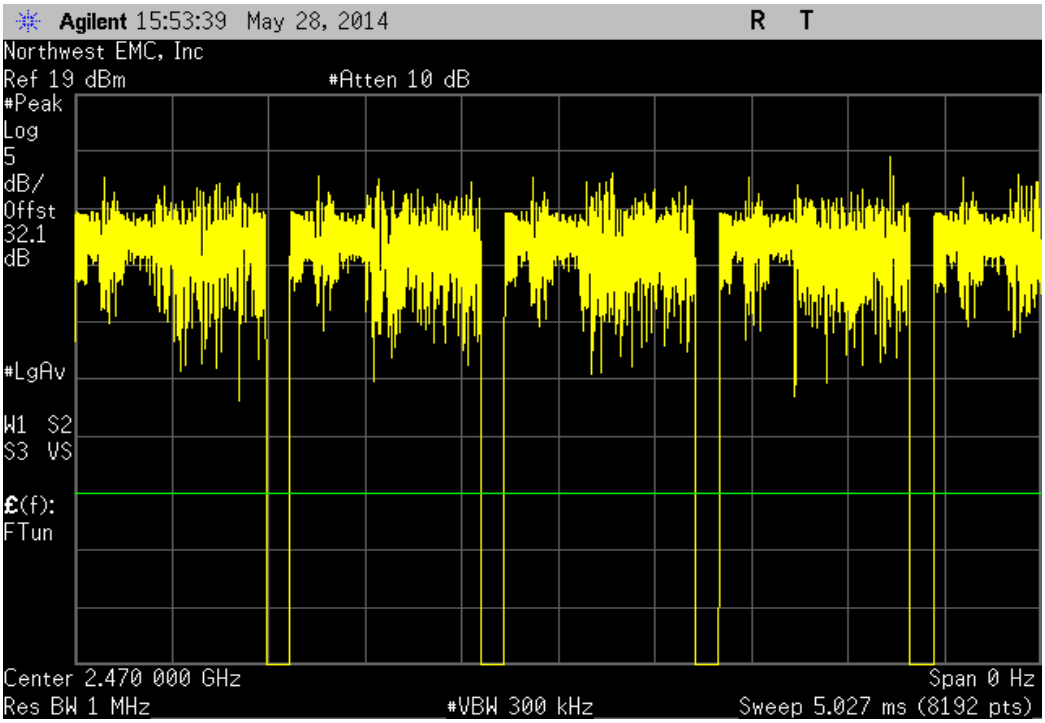
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2470 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	993.3 uS	1.117 mS	1	88.9	N/A	N/A



Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2470 MHz

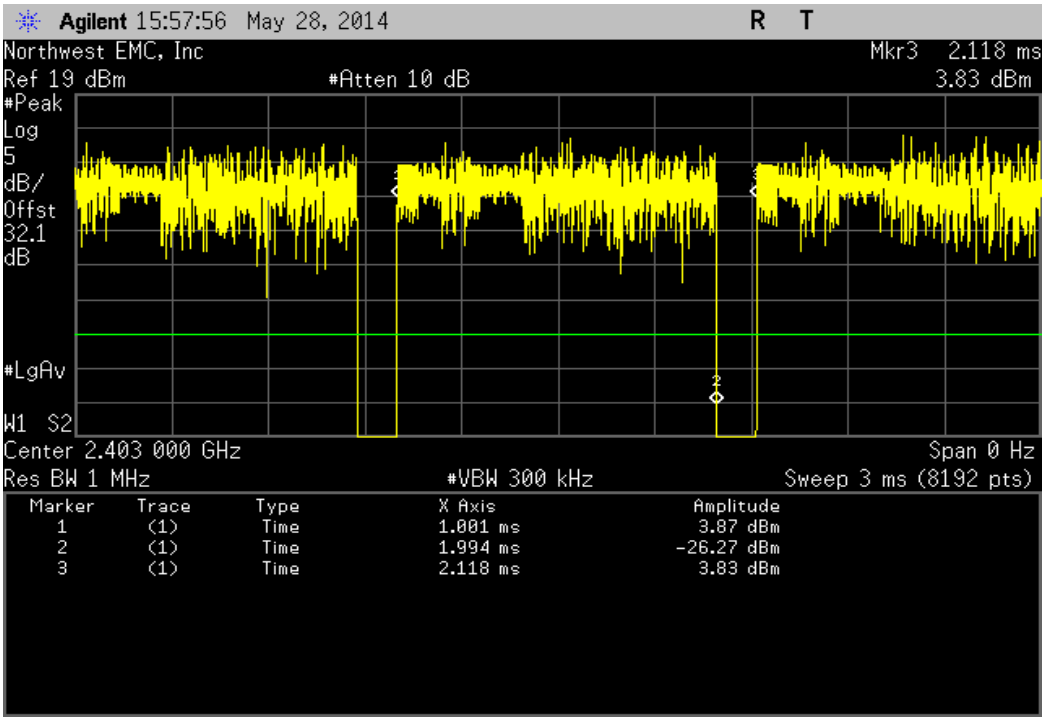
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 3x3 MIMO

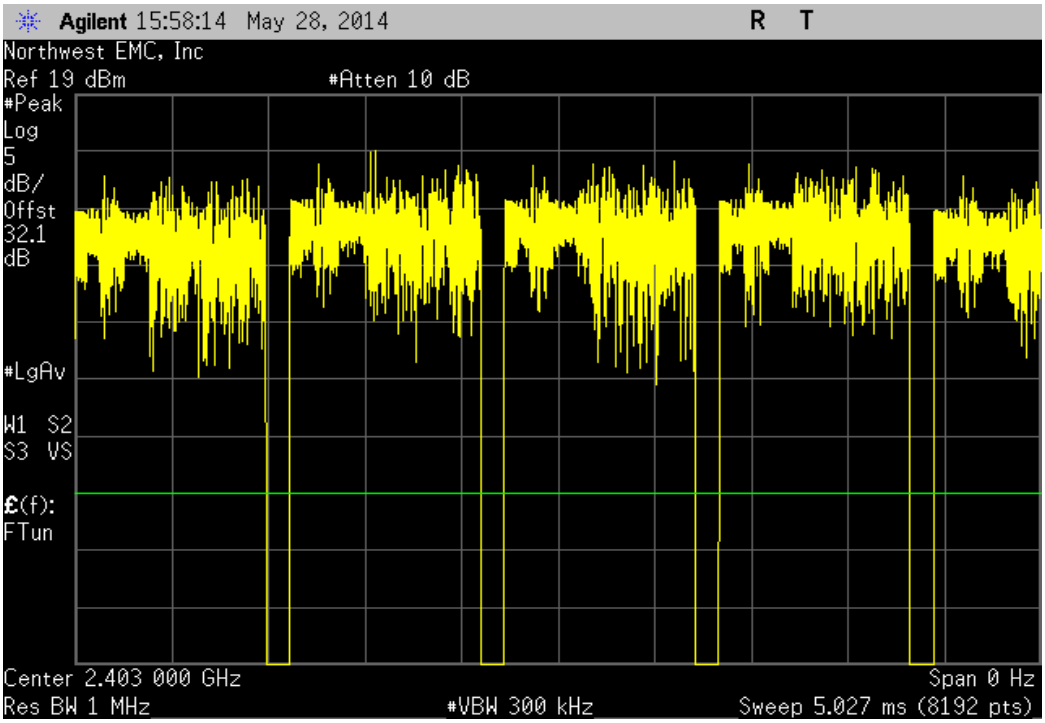
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2403 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	992.5 uS	1.117 mS	1	88.8	N/A	N/A



Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2403 MHz

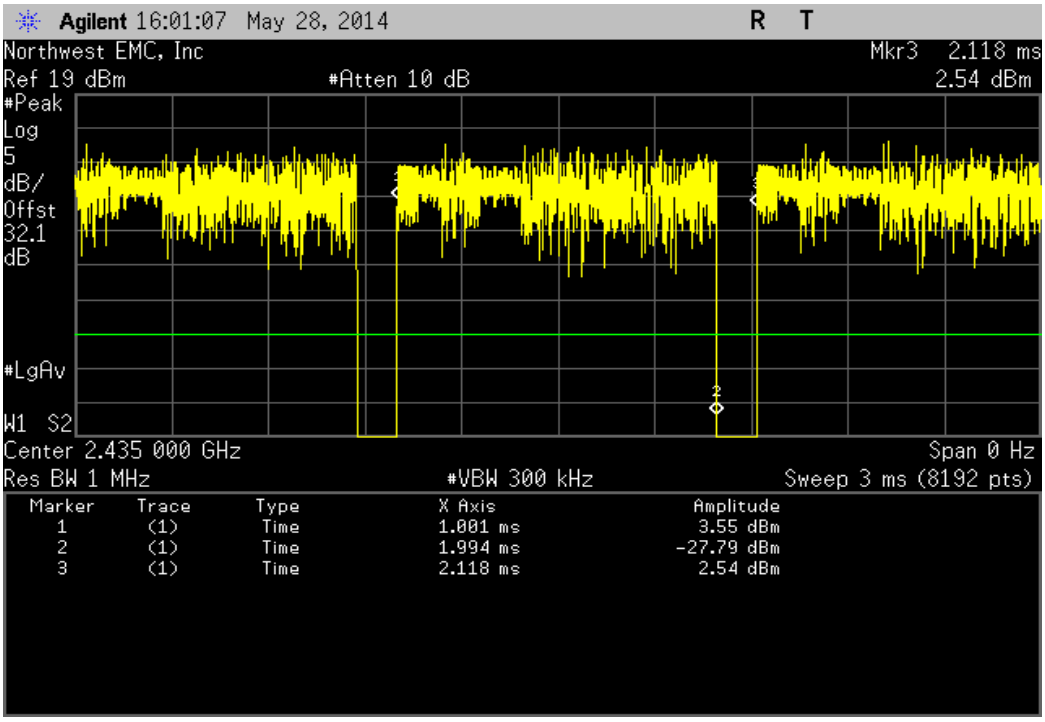
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 3x3 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2435 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	992.5 uS	1.117 mS	1	88.8	N/A	N/A



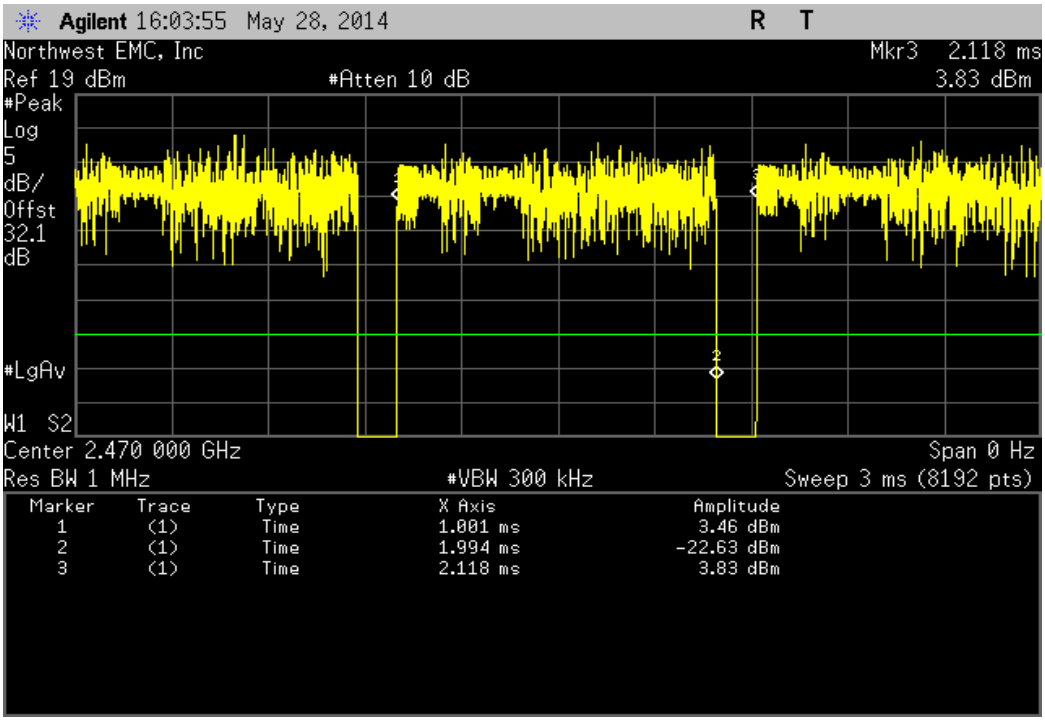
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2435 MHz

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

DUTY CYCLE - 3x3 MIMO

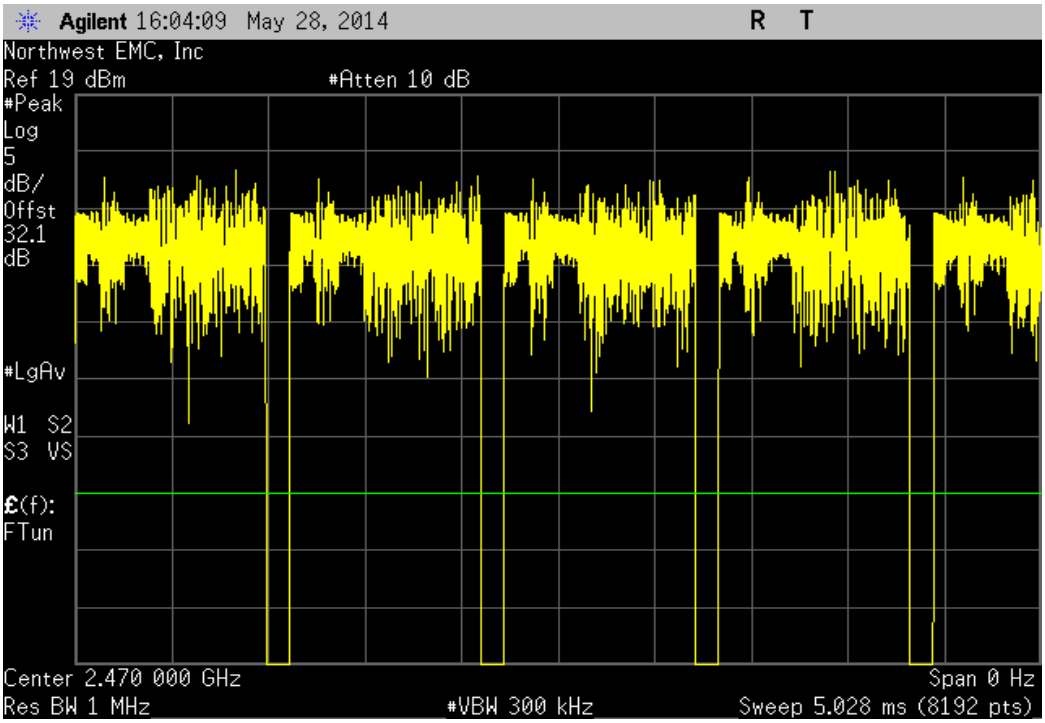
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2470 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	992.5 uS	1.117 mS	1	88.8	N/A	N/A



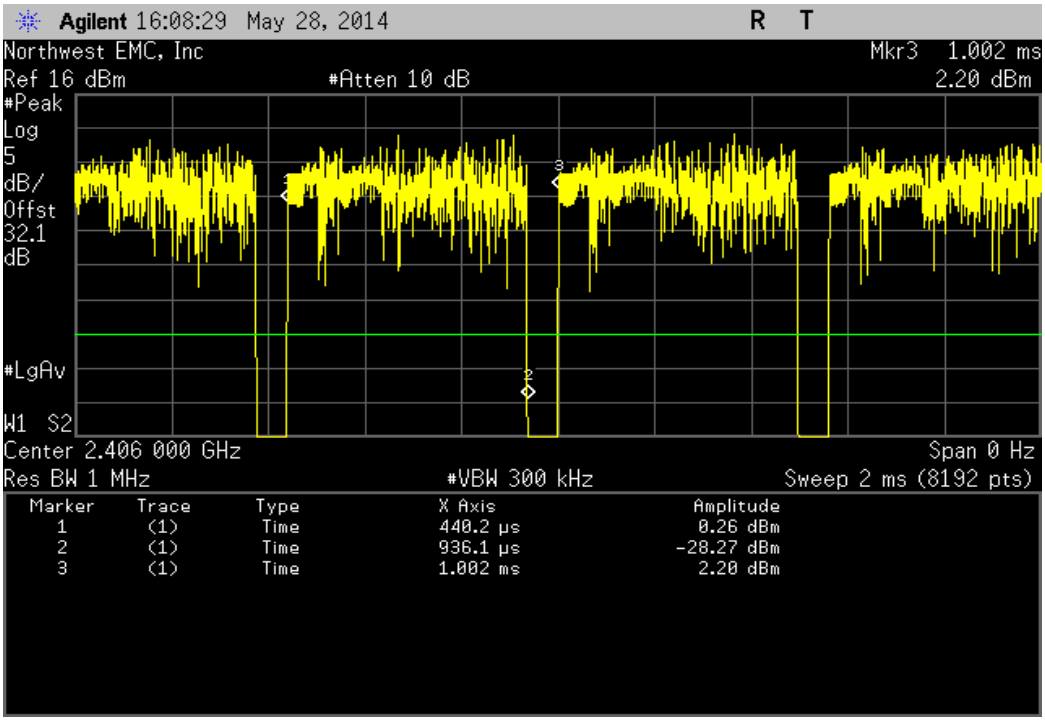
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2470 MHz

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

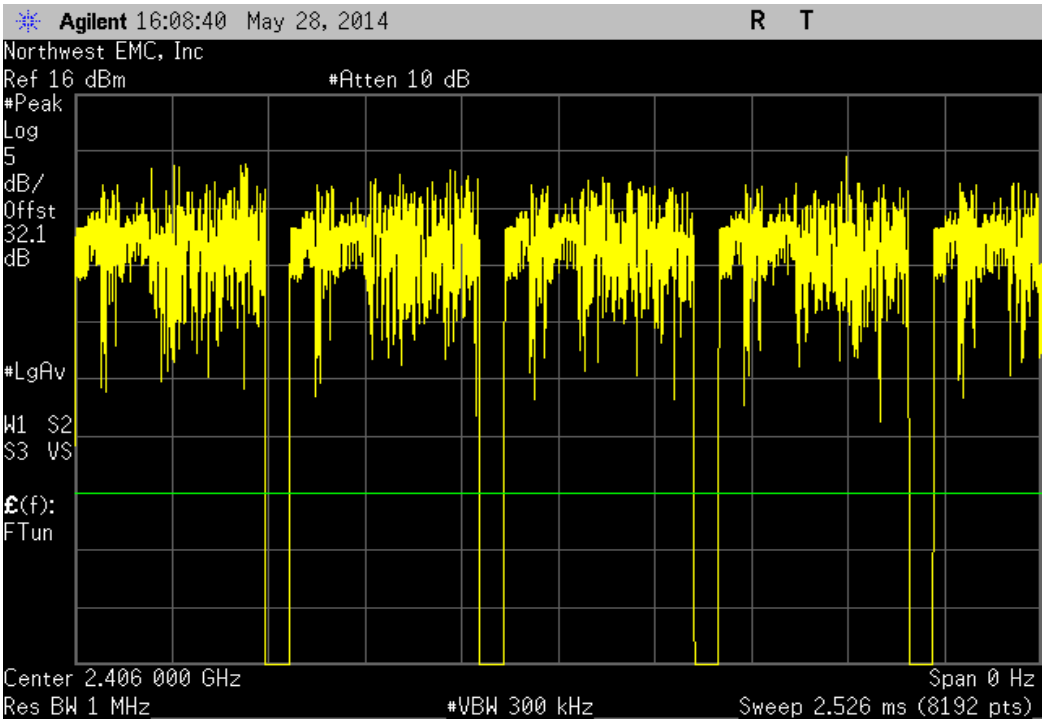


DUTY CYCLE - 3x3 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2406 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	495.9 uS	561.4 uS	1	88.3	N/A	N/A

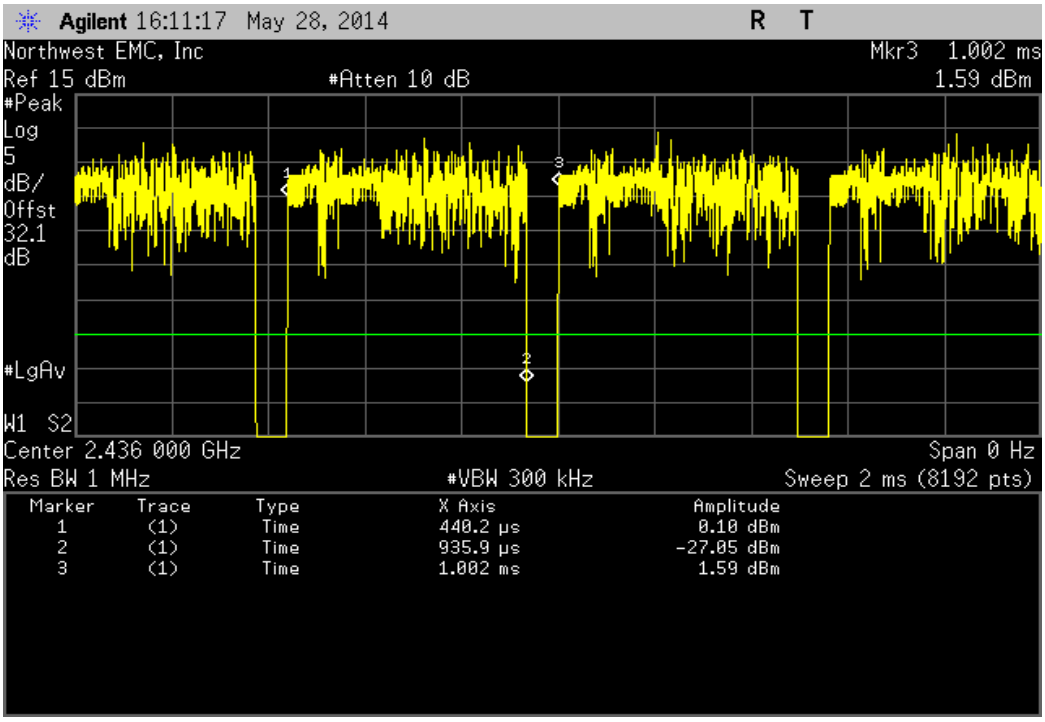


Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2406 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

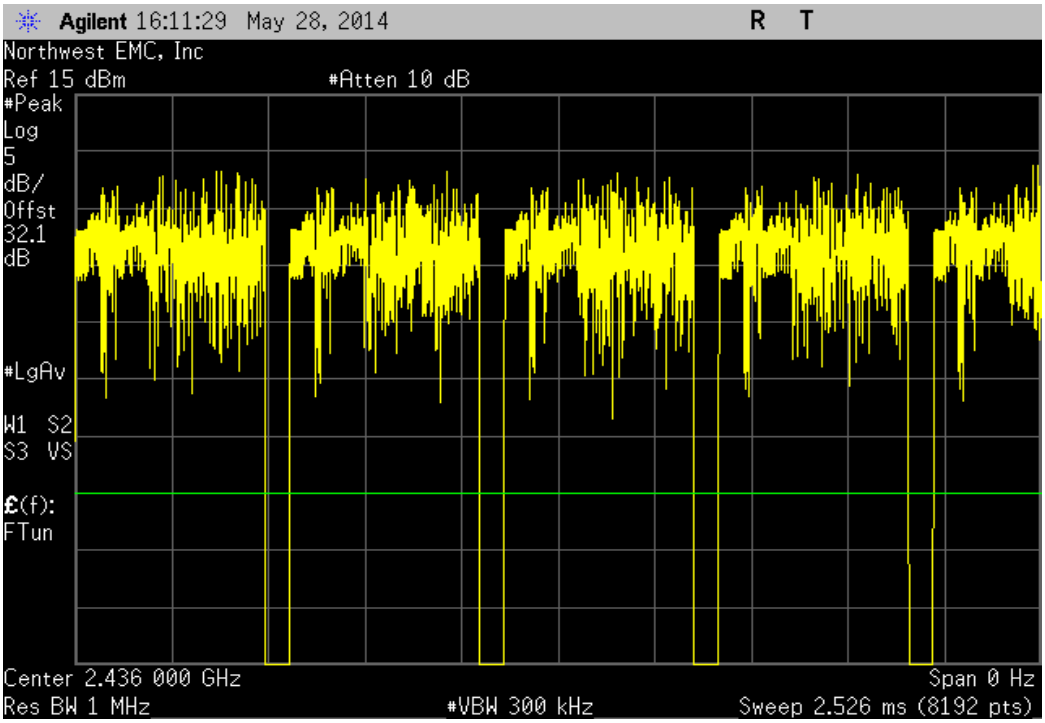


DUTY CYCLE - 3x3 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2436 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	495.7 uS	561.4 uS	1	88.3	N/A	N/A

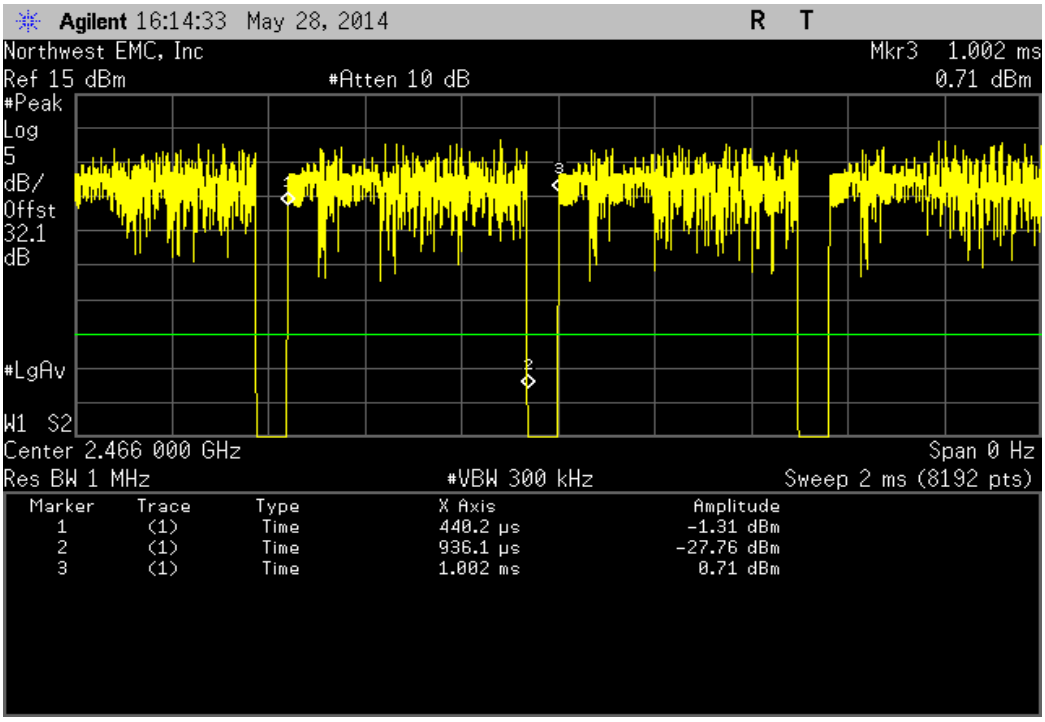


Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2436 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

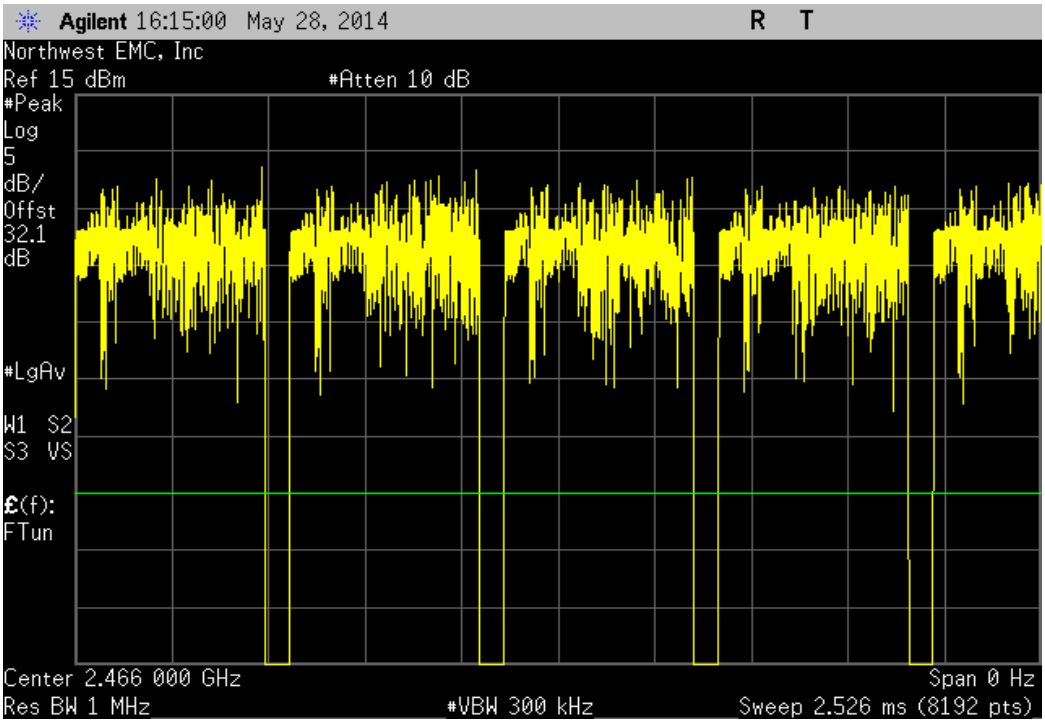


DUTY CYCLE - 3x3 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2466 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	495.9 uS	561.4 uS	1	88.3	N/A	N/A

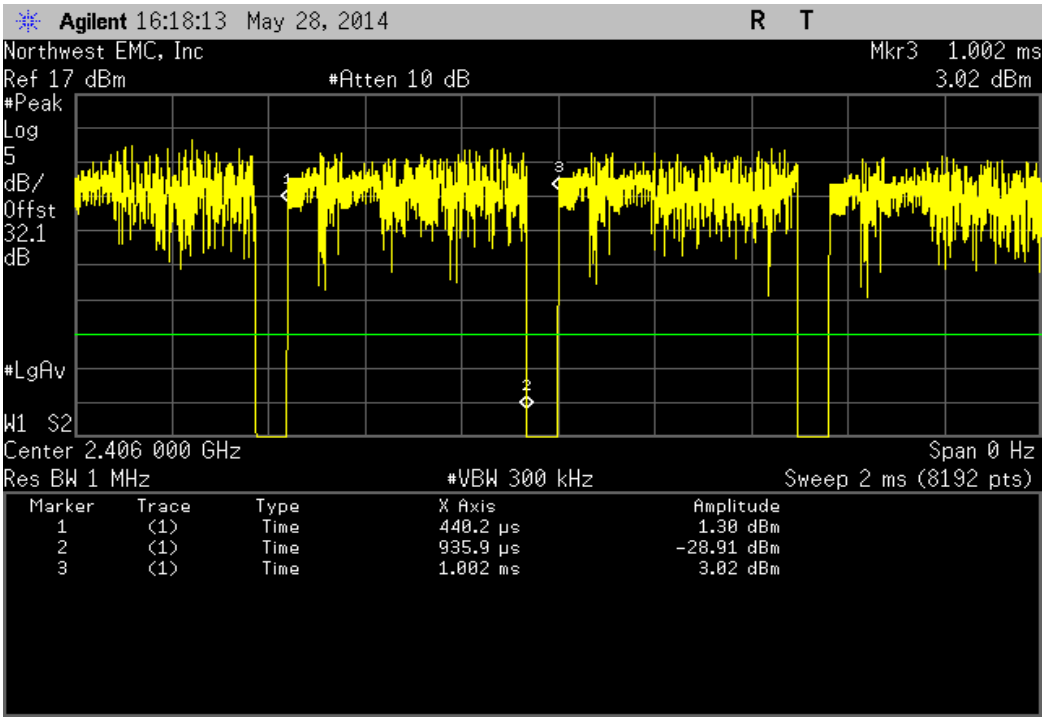


Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2466 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

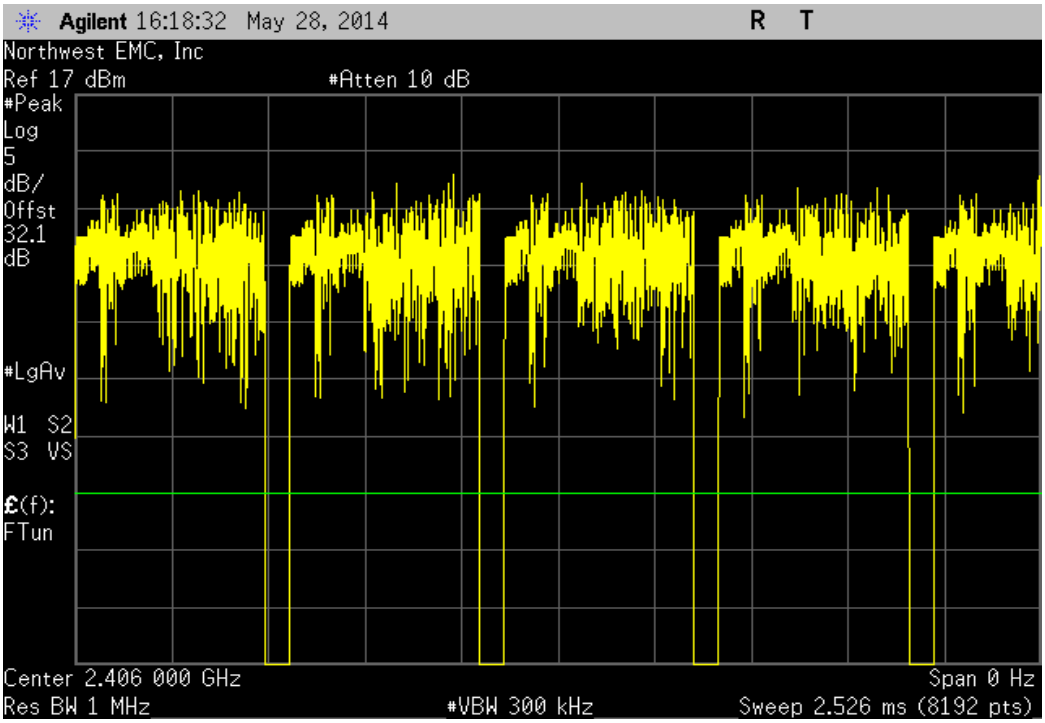


DUTY CYCLE - 3x3 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2406 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	495.7 uS	561.4 uS	1	88.3	N/A	N/A



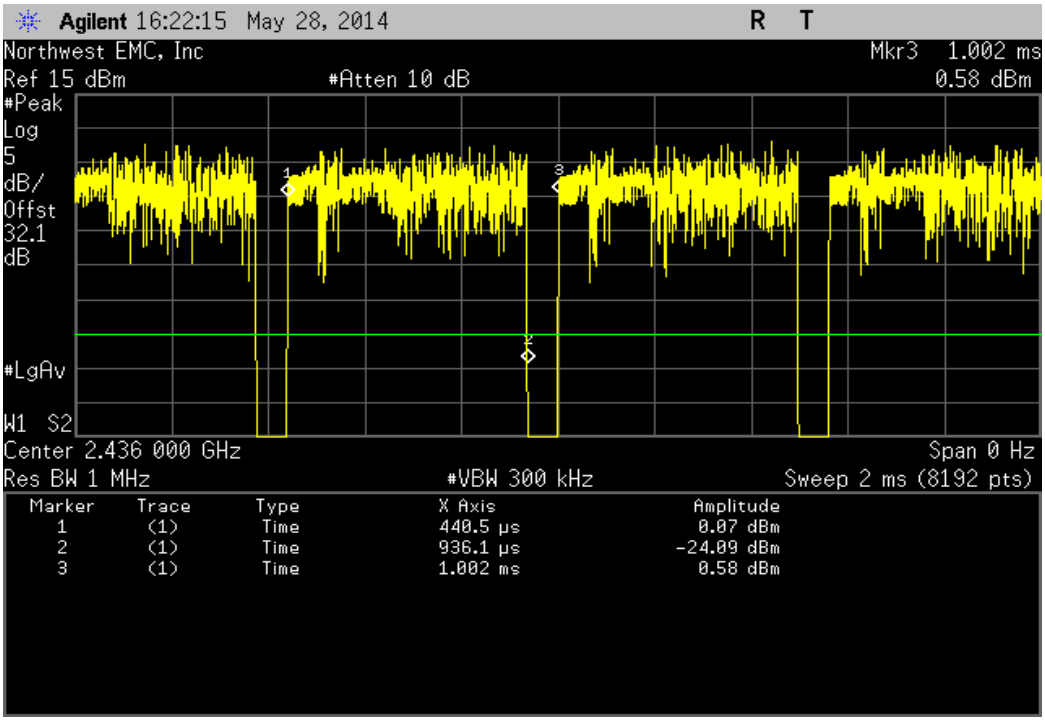
Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2406 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 3x3 MIMO

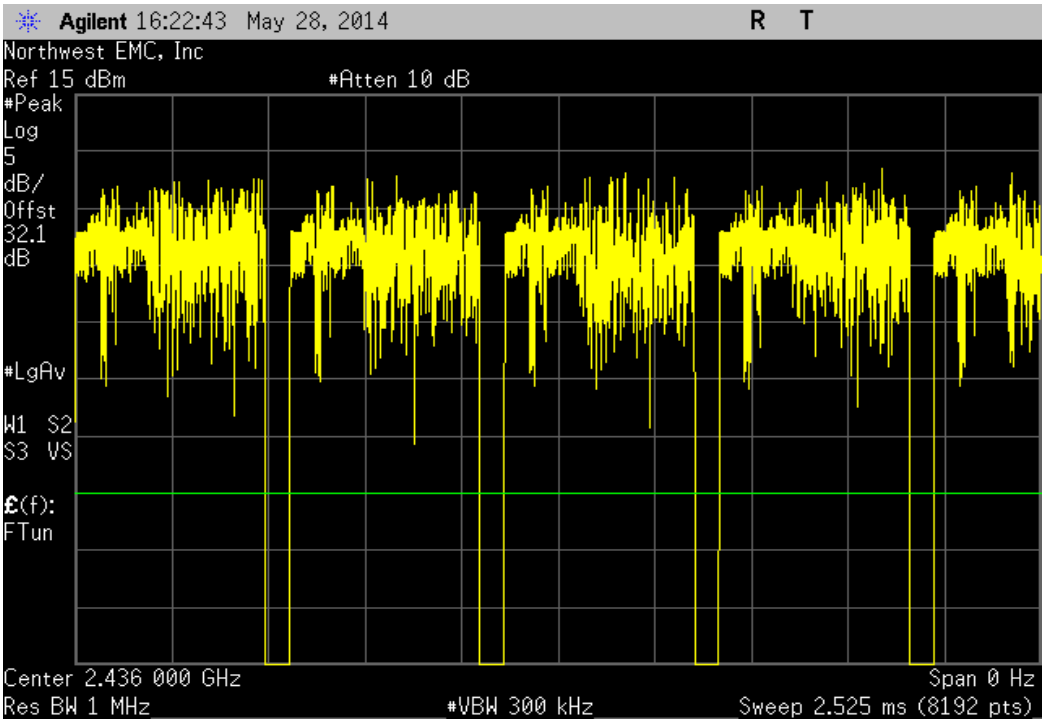
Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2436 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	495.6 uS	561.1 uS	1	88.3	N/A	N/A



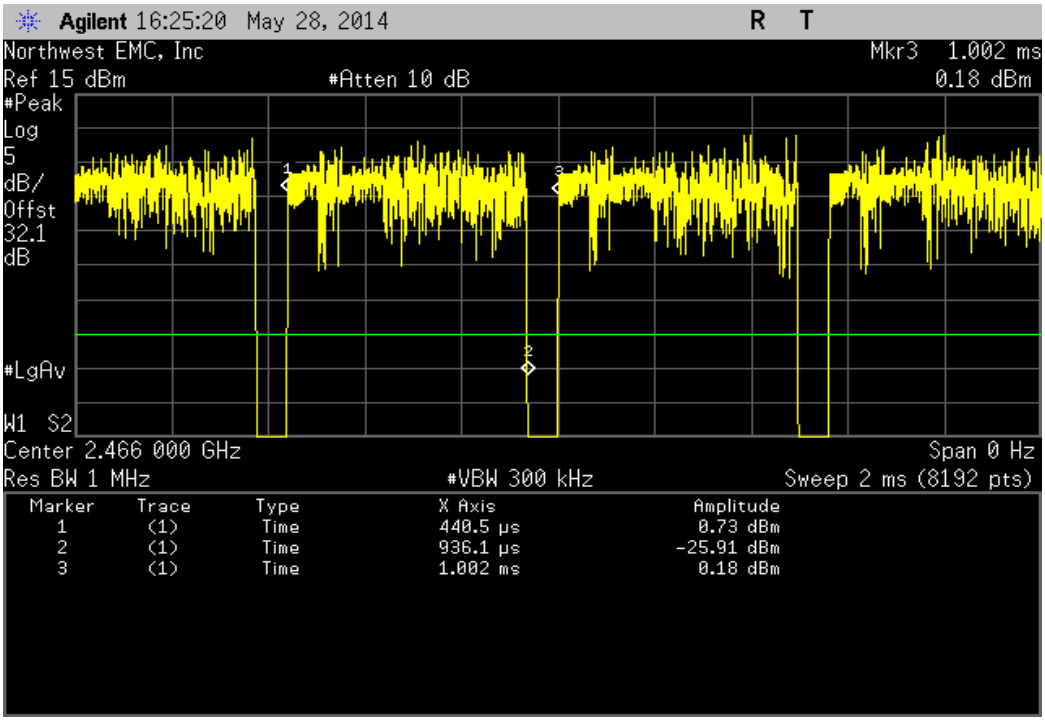
Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2436 MHz

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



DUTY CYCLE - 3x3 MIMO

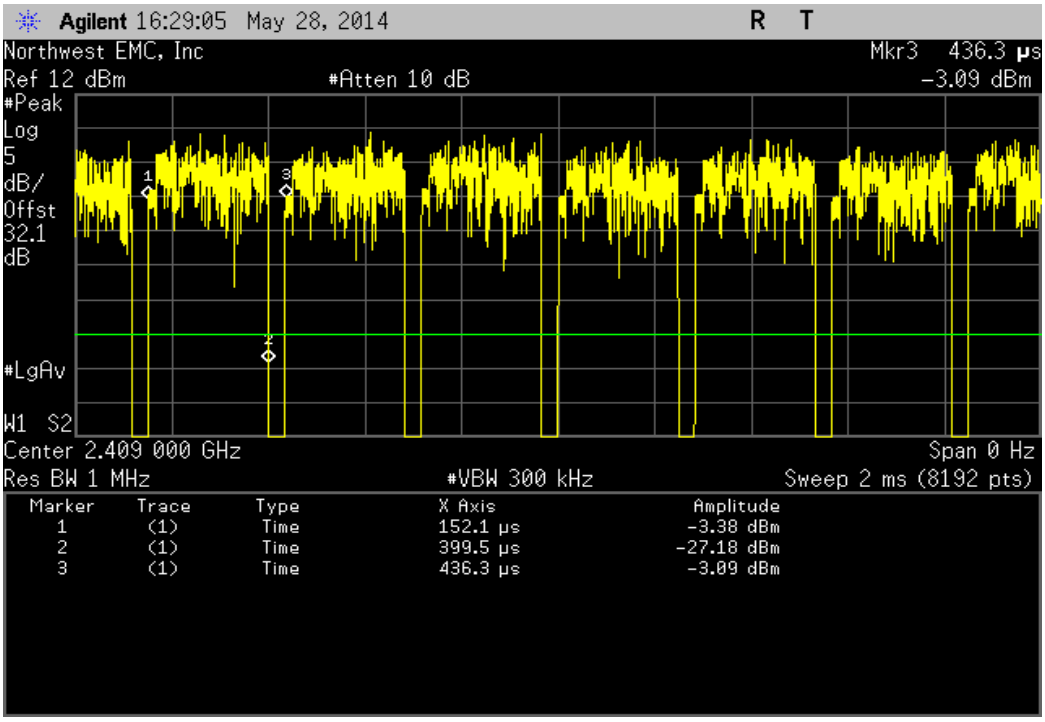
Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2466 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	495.6 uS	561.1 uS	1	88.3	N/A	N/A



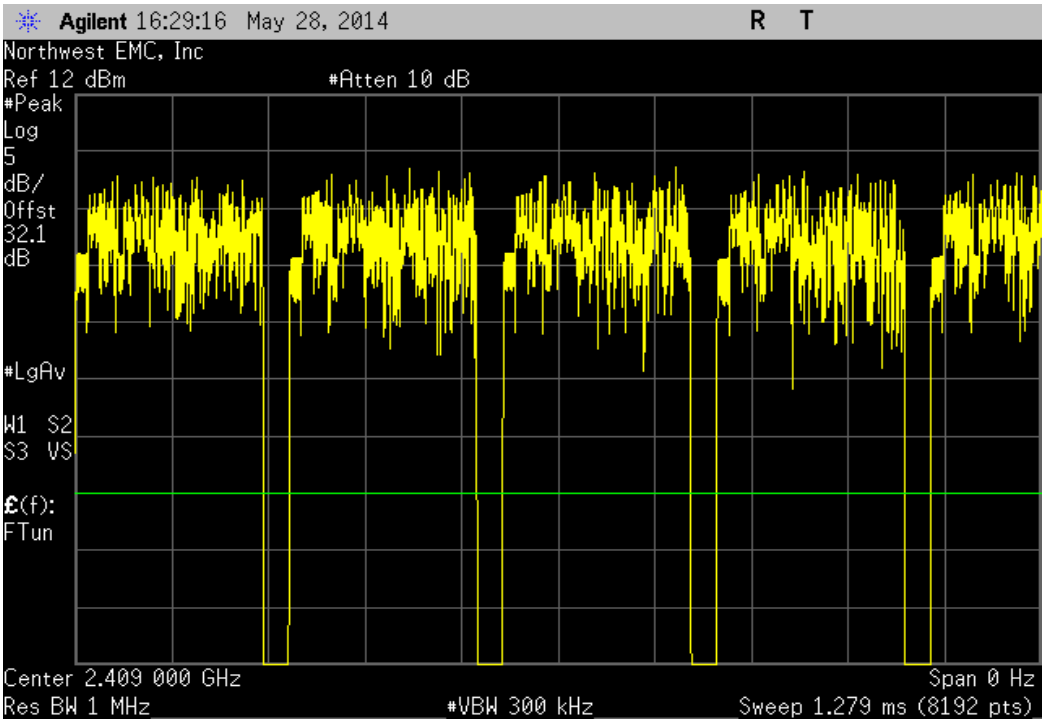
Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2466 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

DUTY CYCLE - 3x3 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2409 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	247.4 uS	284.2 uS	1	87.1	N/A	N/A

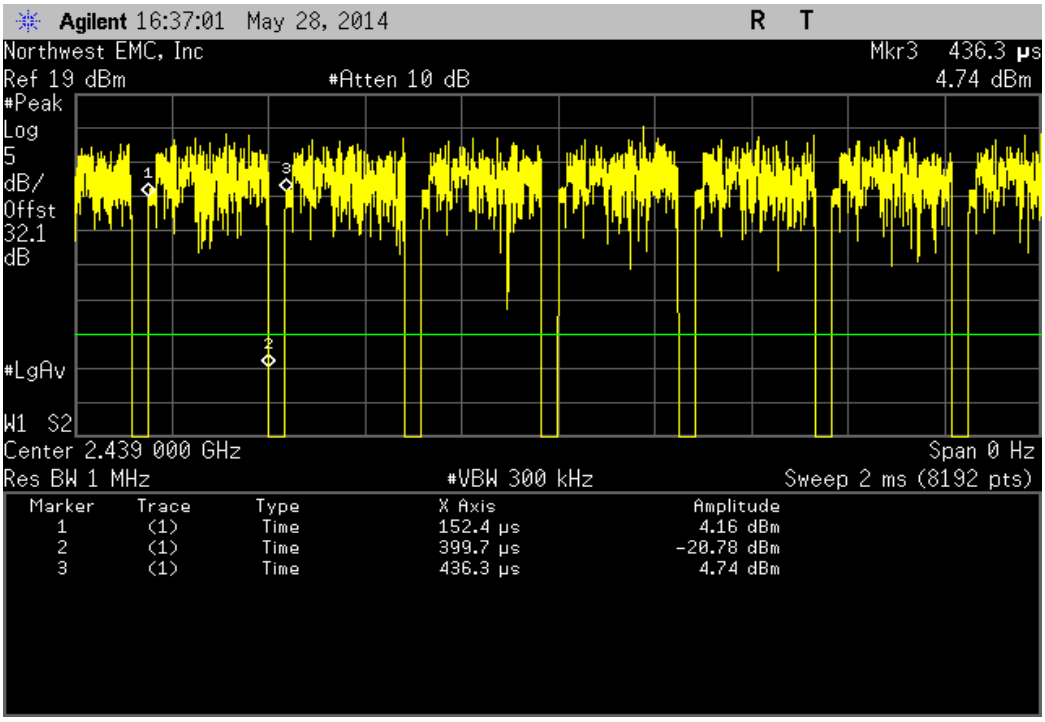


Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2409 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

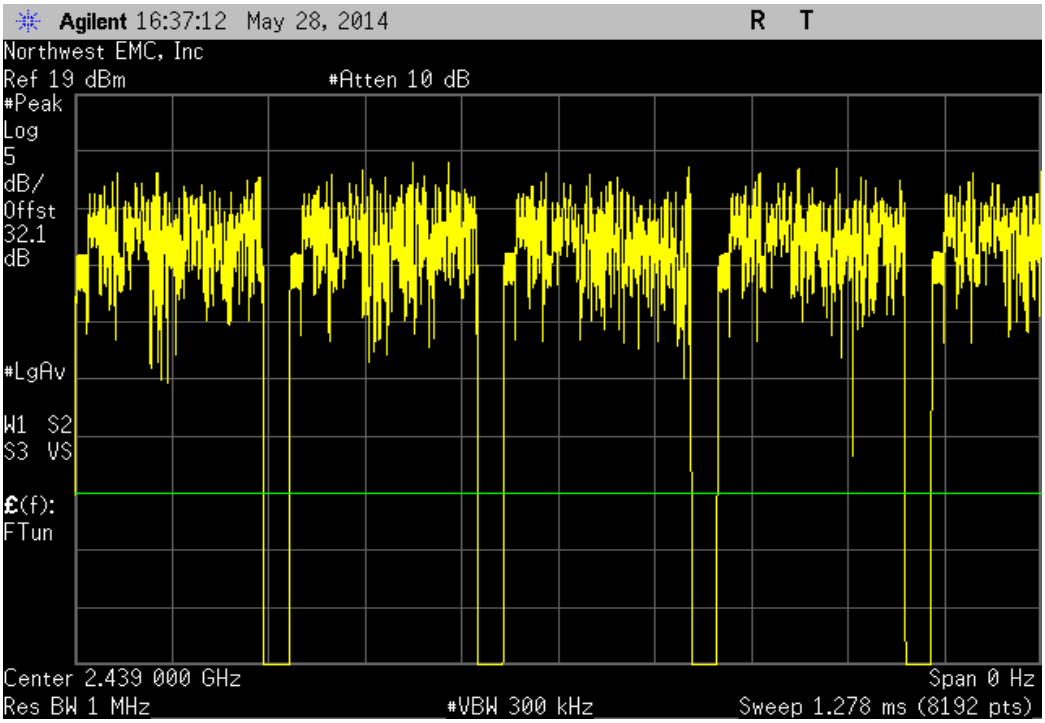


DUTY CYCLE - 3x3 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2439 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	247.3 uS	283.9 uS	1	87.1	N/A	N/A



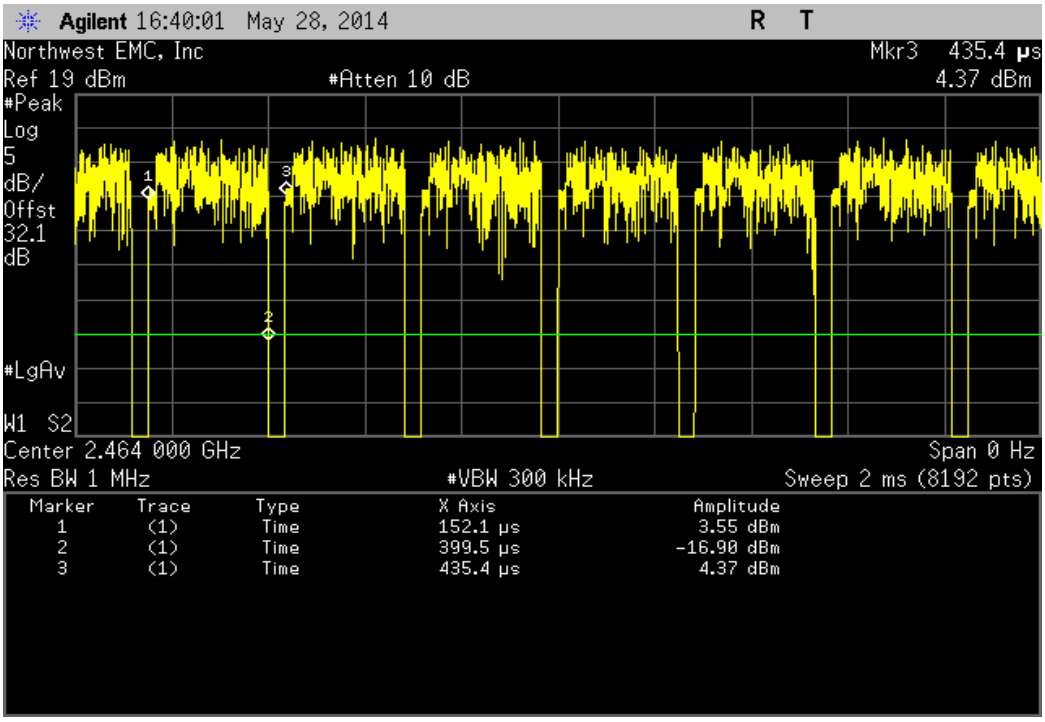
Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2439 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	6	N/A	N/A	N/A



DUTY CYCLE - 3x3 MIMO

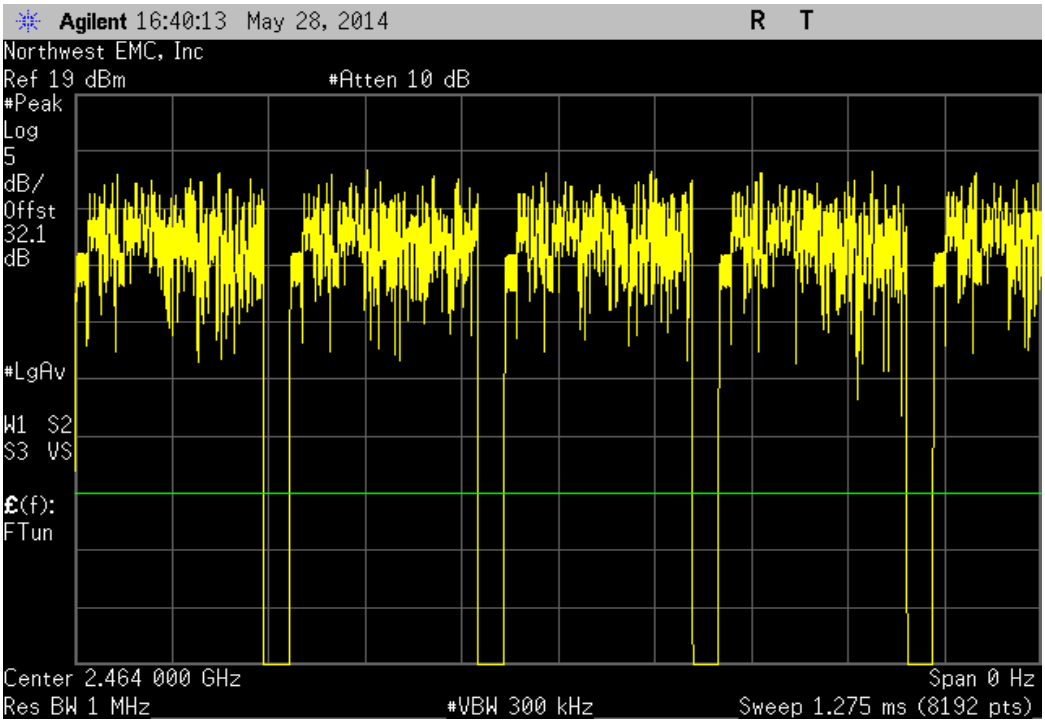
Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2464 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	247.4 uS	283.3 uS	1	87.3	N/A	N/A



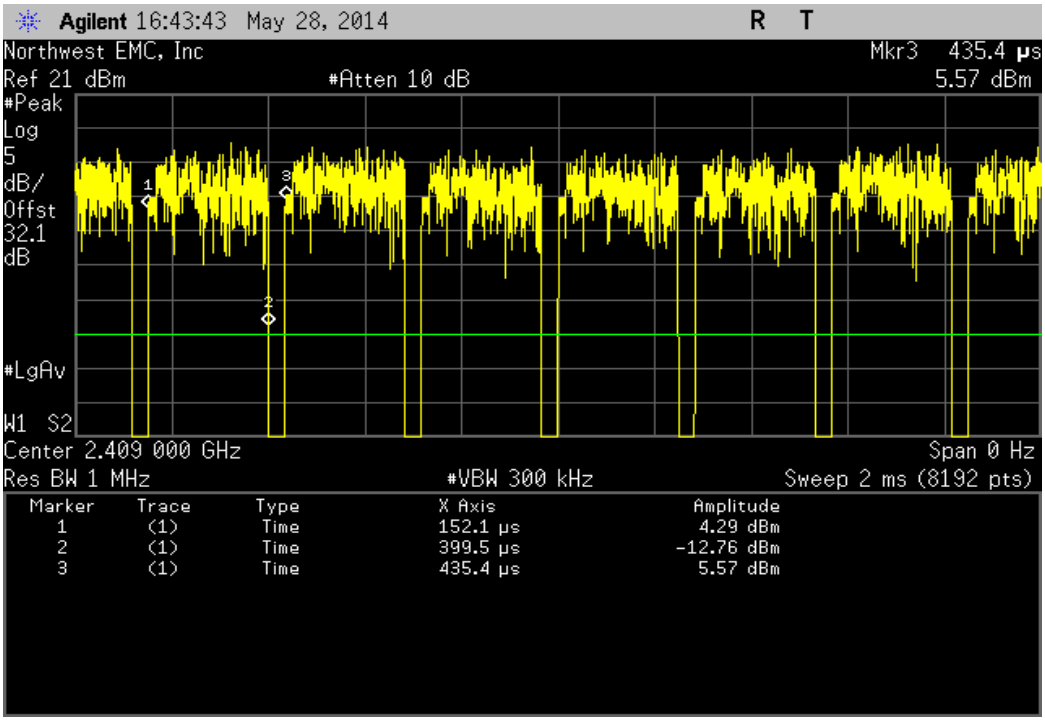
Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2464 MHz

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

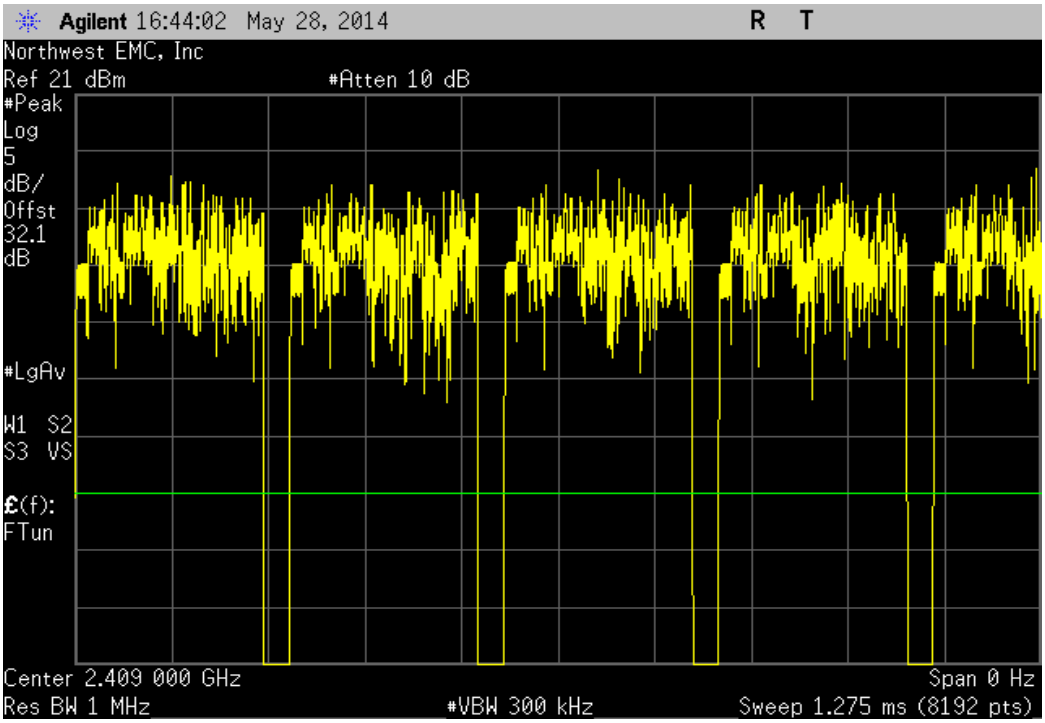


DUTY CYCLE - 3x3 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2409 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	247.4 uS	283.3 uS	1	87.3	N/A	N/A

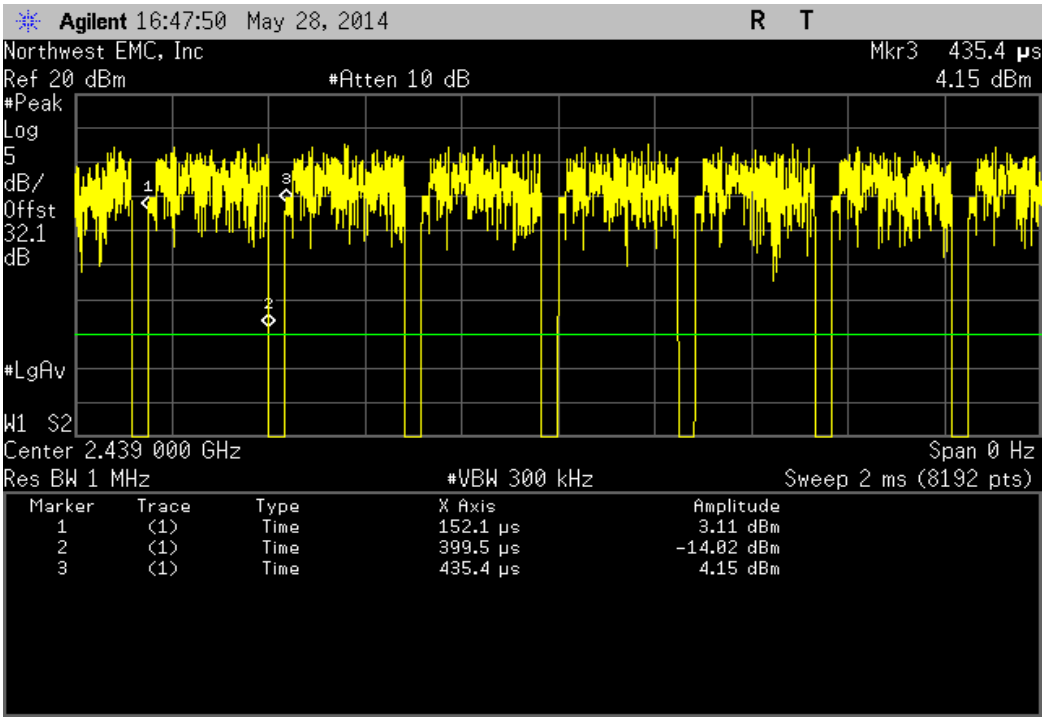


Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2409 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	6	N/A	N/A	N/A

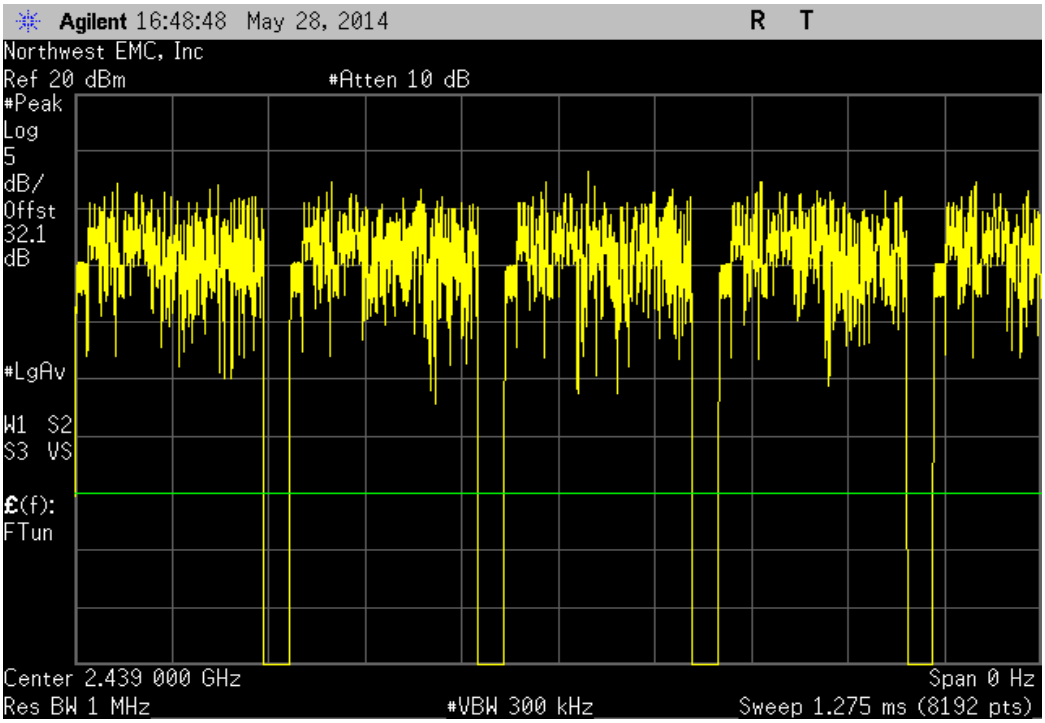


DUTY CYCLE - 3x3 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2439 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	247.4 uS	283.3 uS	1	87.3	N/A	N/A

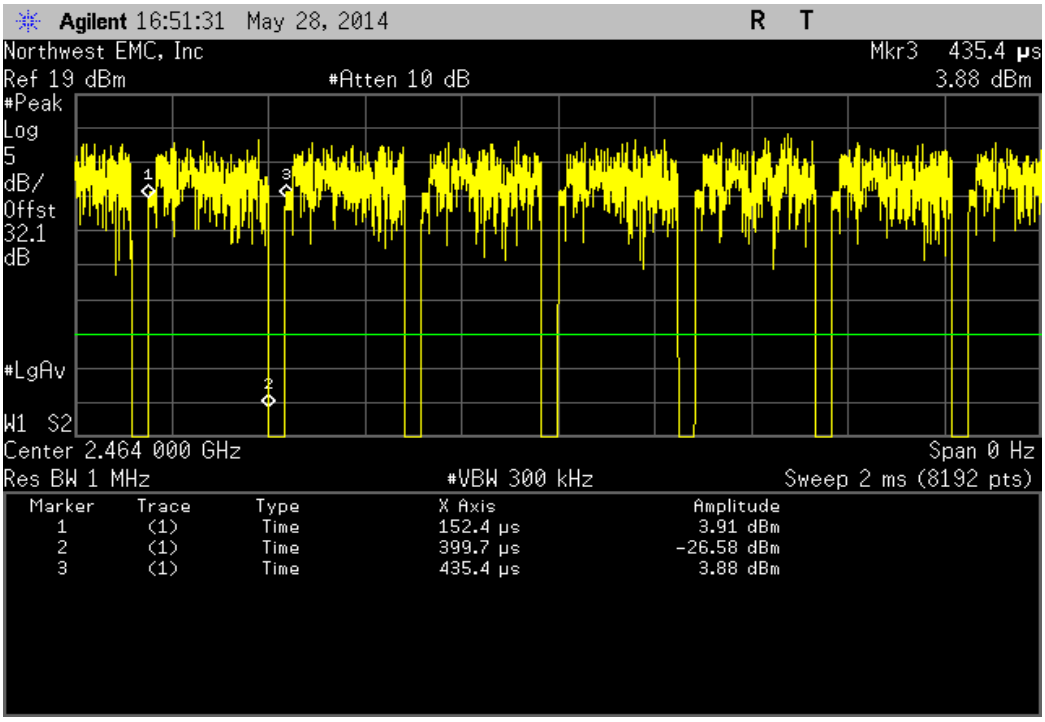


Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2439 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	6	N/A	N/A	N/A

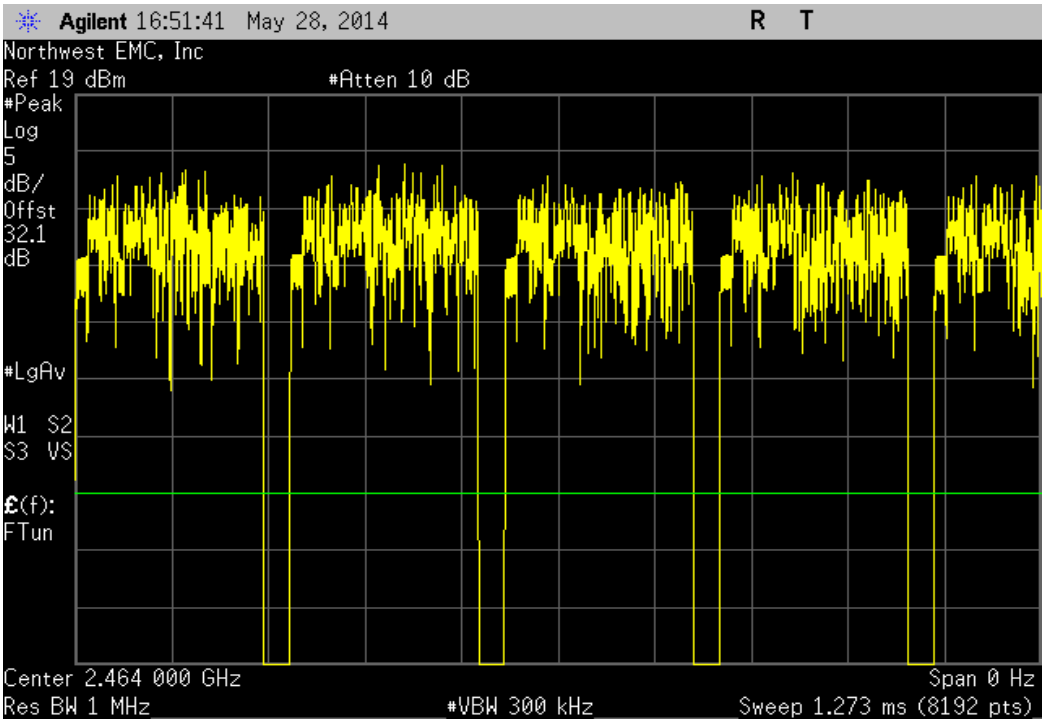


DUTY CYCLE - 3x3 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2464 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	247.3 uS	283 uS	1	87.4	N/A	N/A



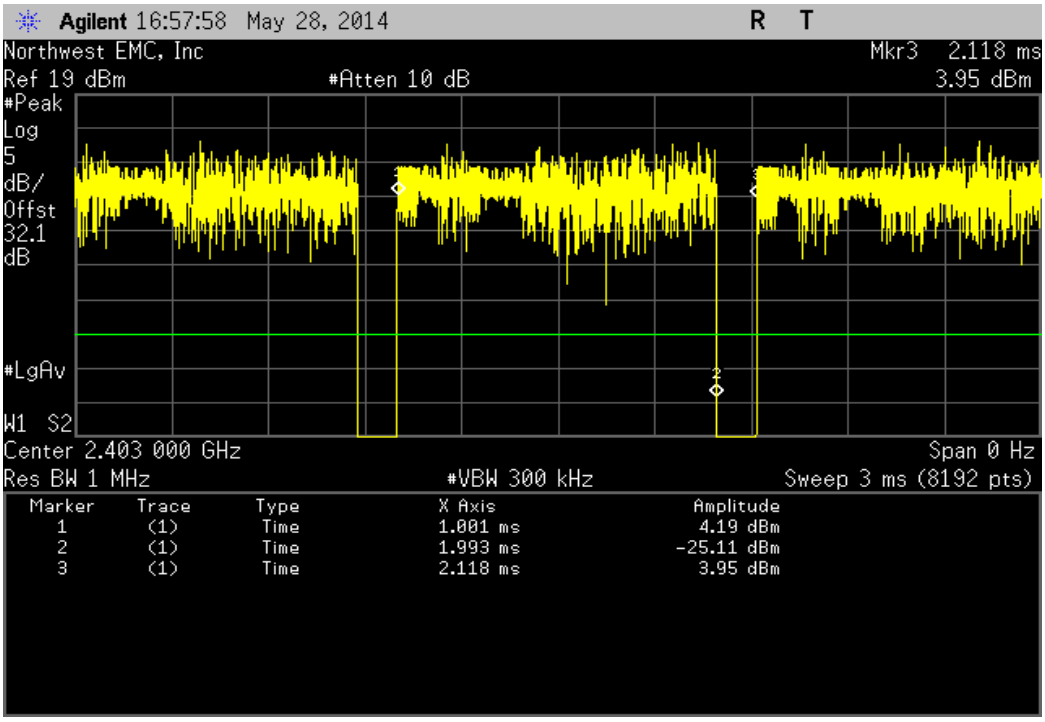
Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2464 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 3x3 MIMO

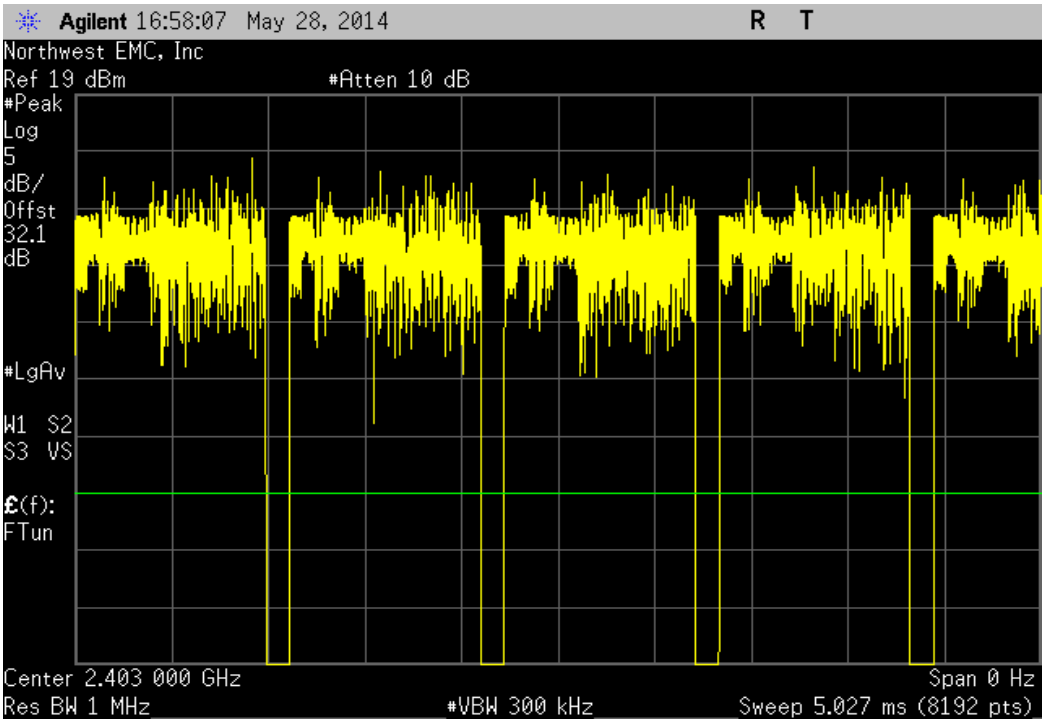
Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2403 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	992.2 uS	1.117 mS	1	88.8	N/A	N/A



Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2403 MHz

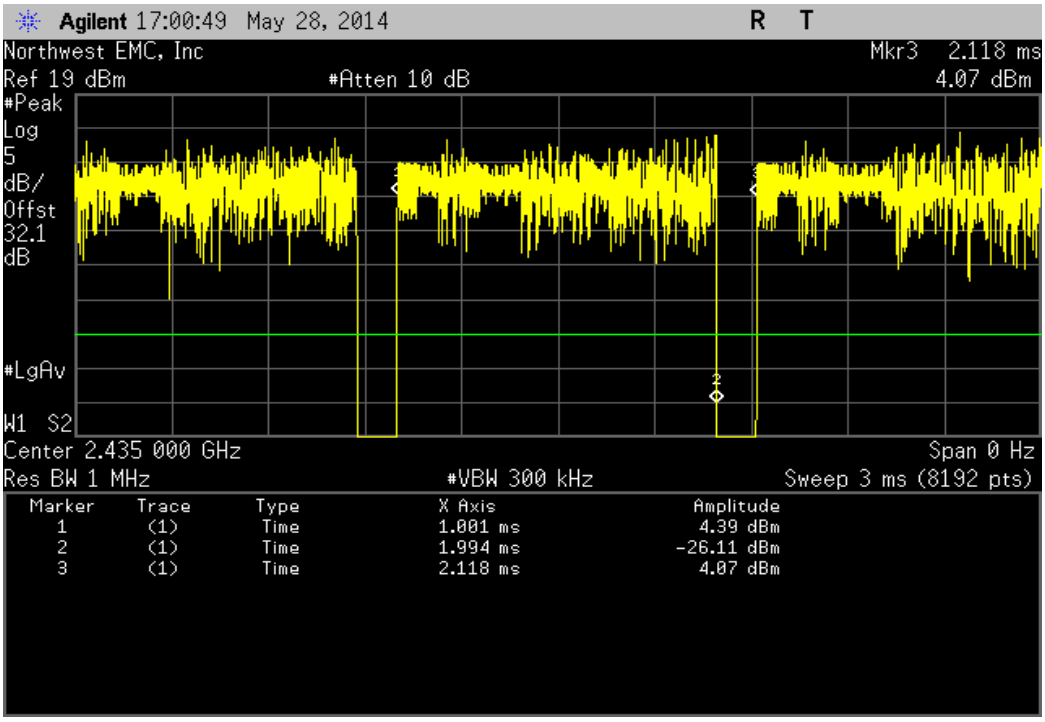
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 3x3 MIMO

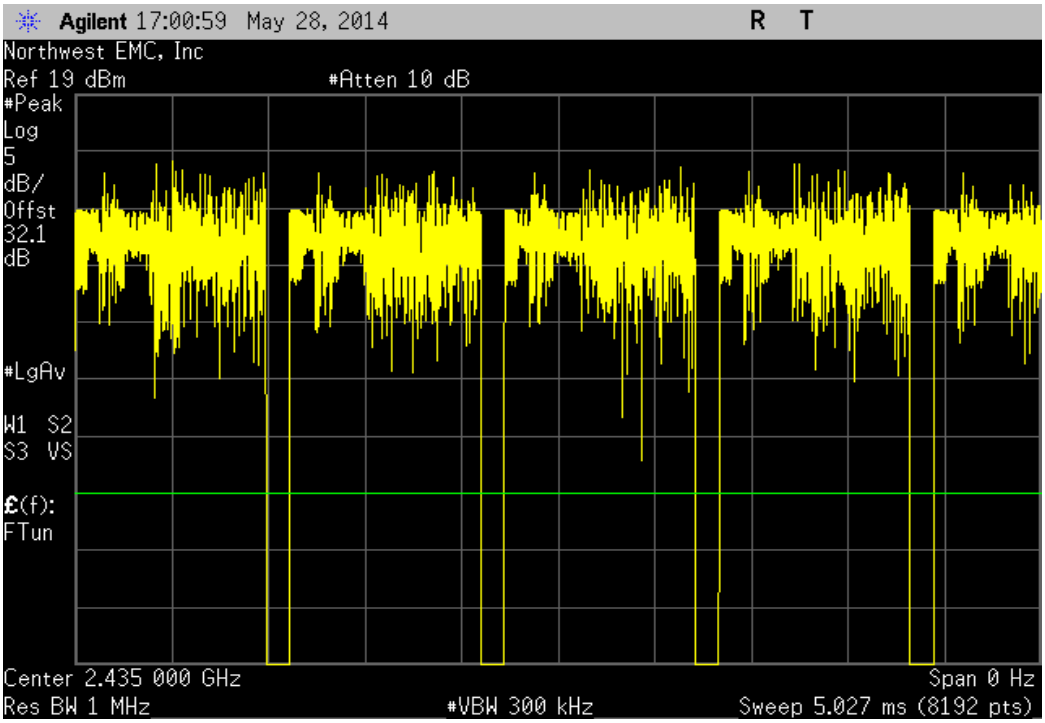
Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2435 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	992.9 uS	1.117 mS	1	88.9	N/A	N/A



Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2435 MHz

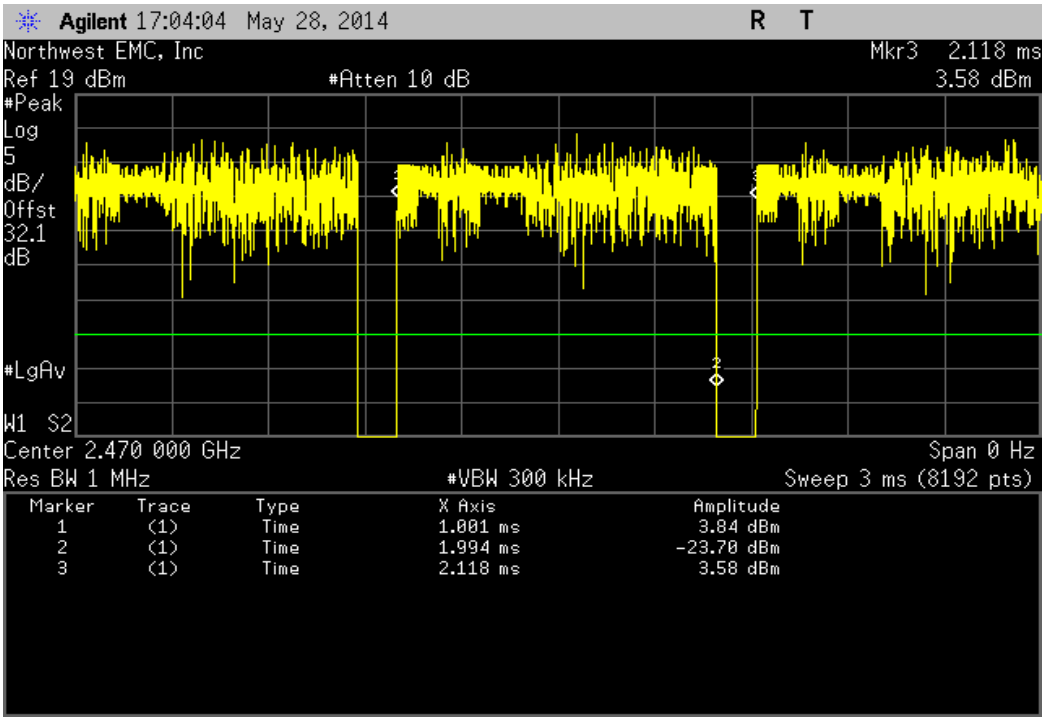
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 3x3 MIMO

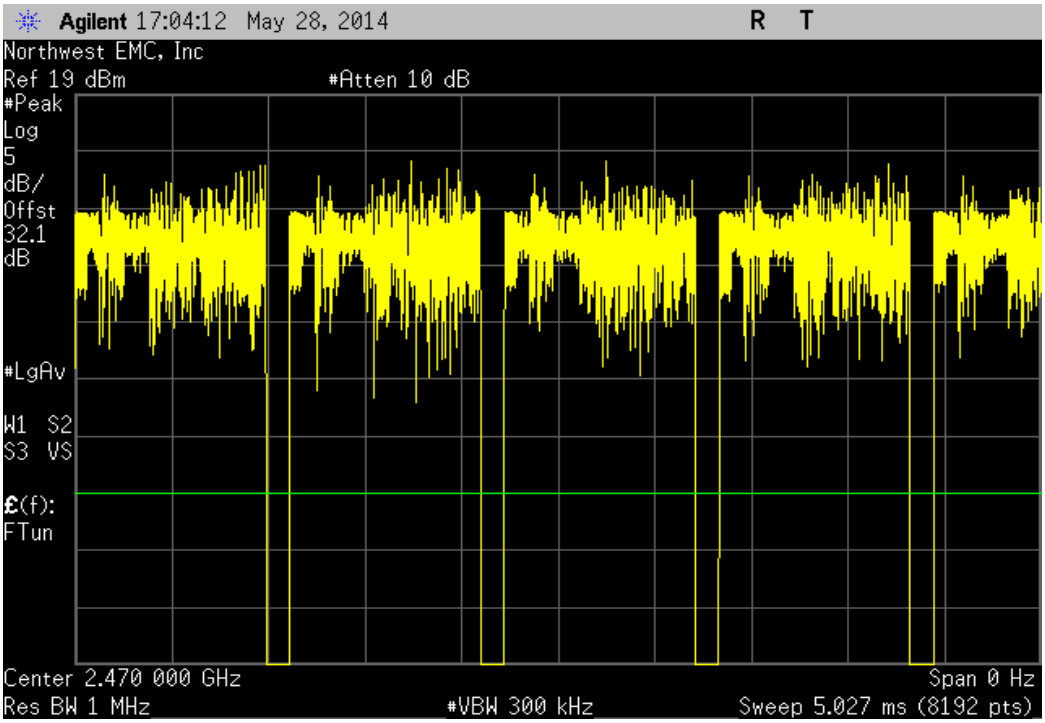
Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2470 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	992.5 uS	1.117 mS	1	88.8	N/A	N/A



Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2470 MHz

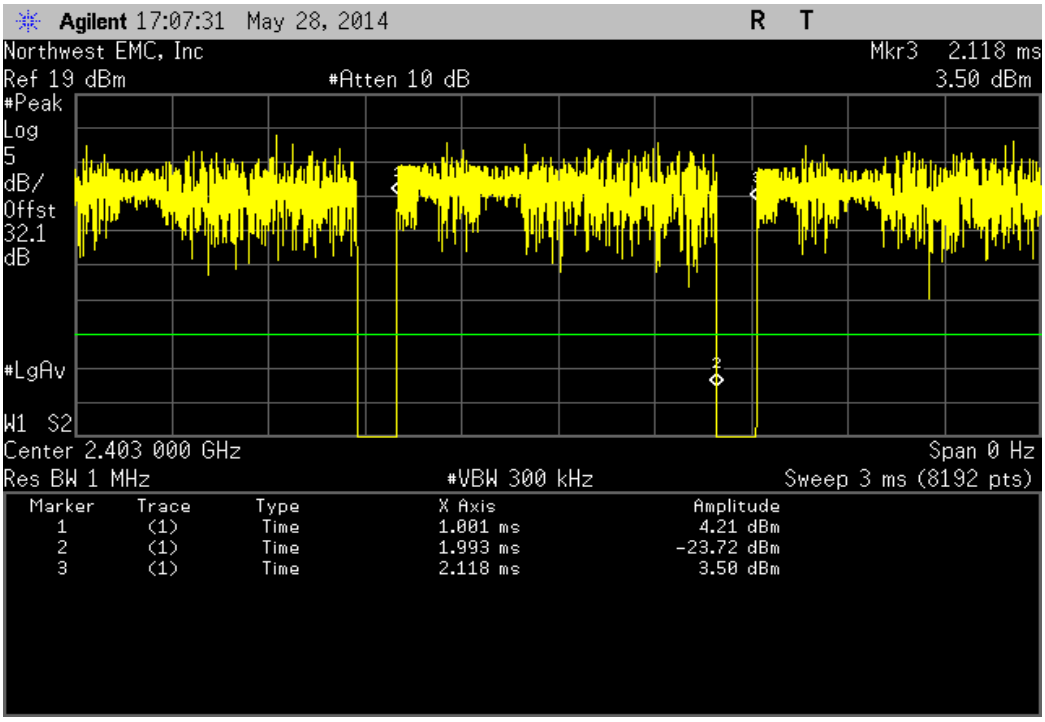
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 3x3 MIMO

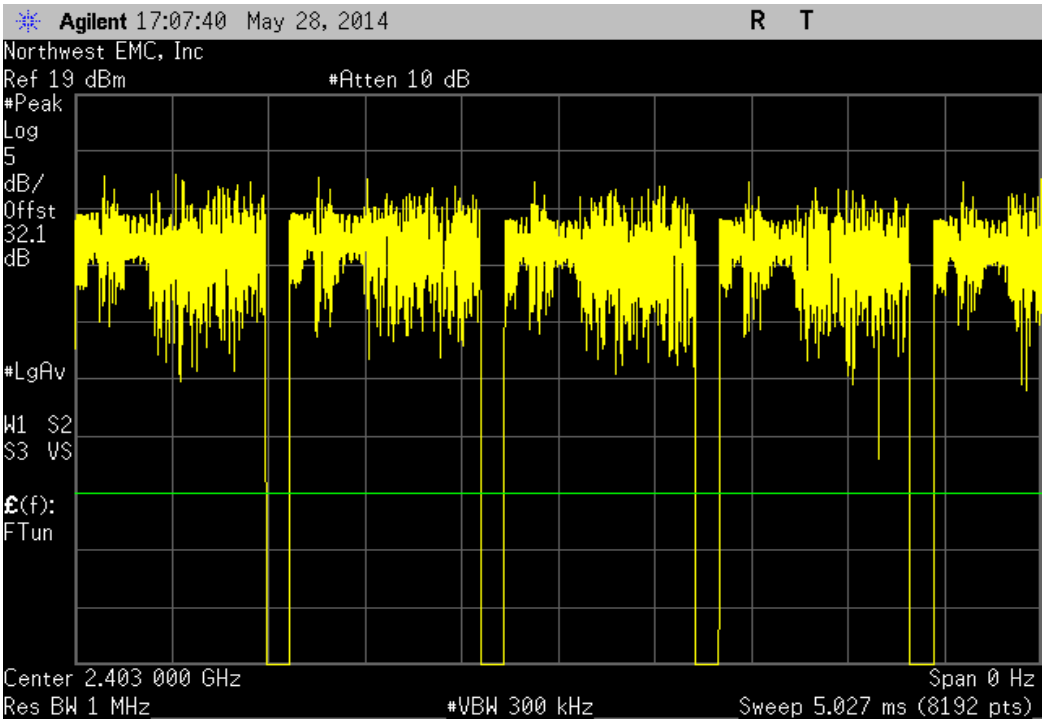
Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2403 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	992.2 uS	1.117 mS	1	88.8	N/A	N/A



Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2403 MHz

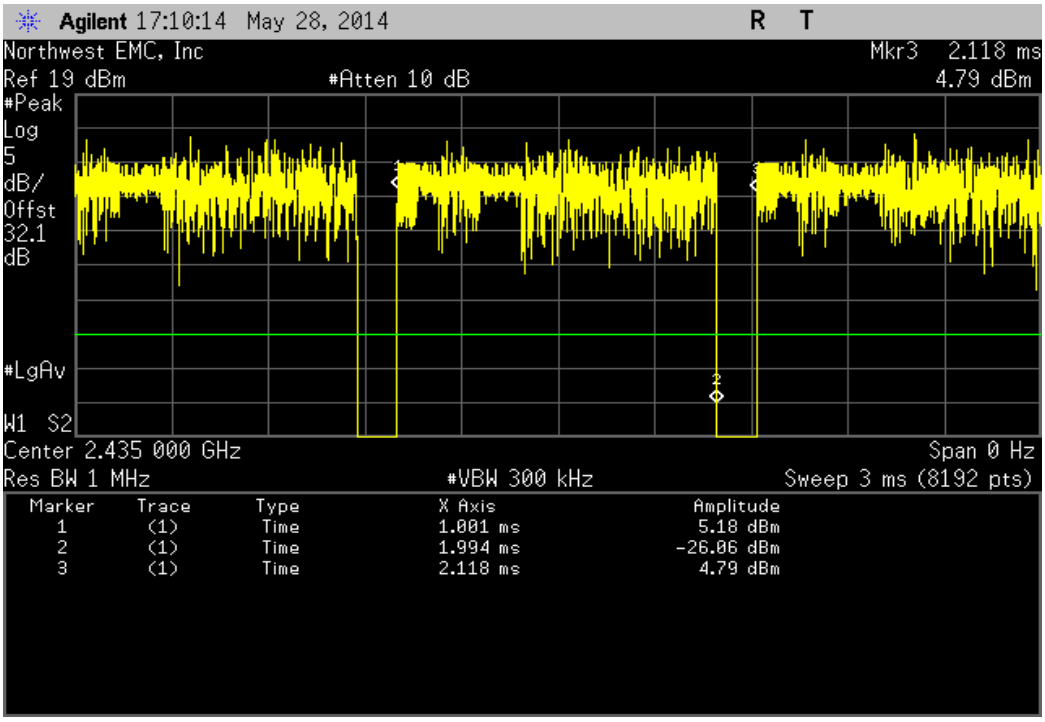
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 3x3 MIMO

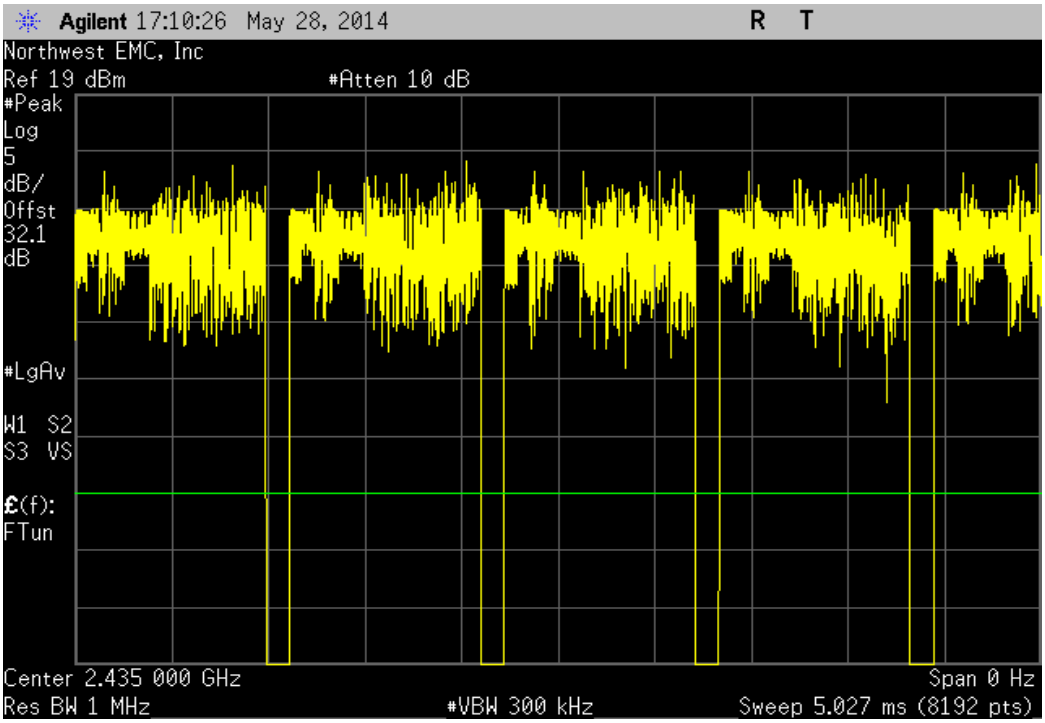
Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2435 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	992.5 uS	1.117 mS	1	88.8	N/A	N/A



Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2435 MHz

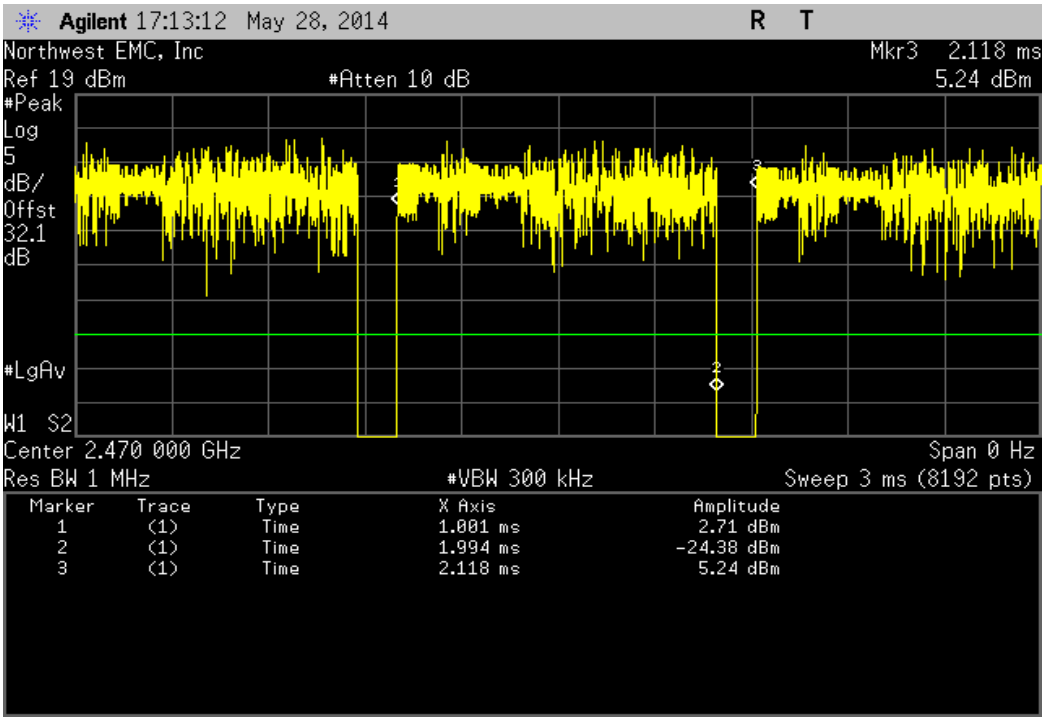
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 3x3 MIMO

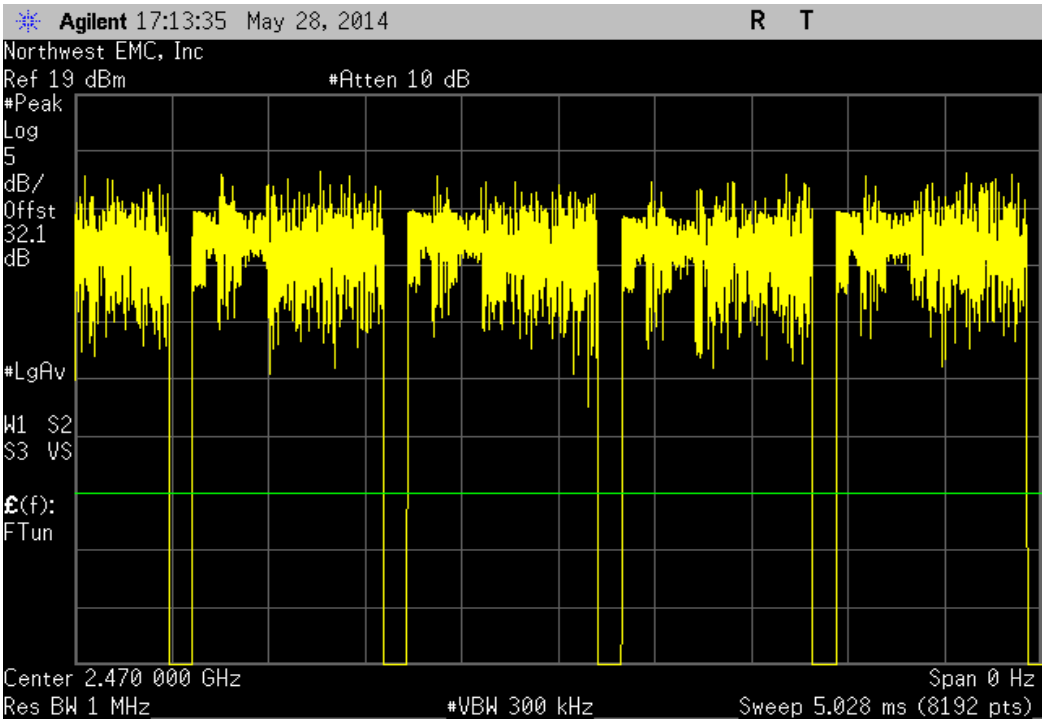
Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2470 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	992.9 uS	1.117 mS	1	88.9	N/A	N/A



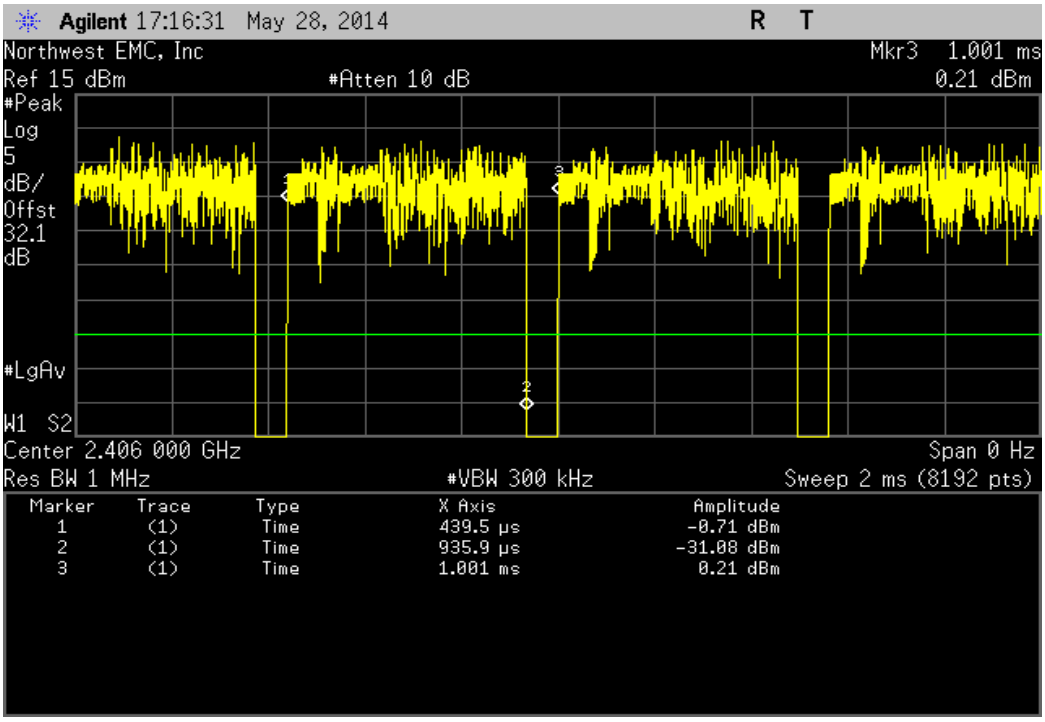
Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2470 MHz

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

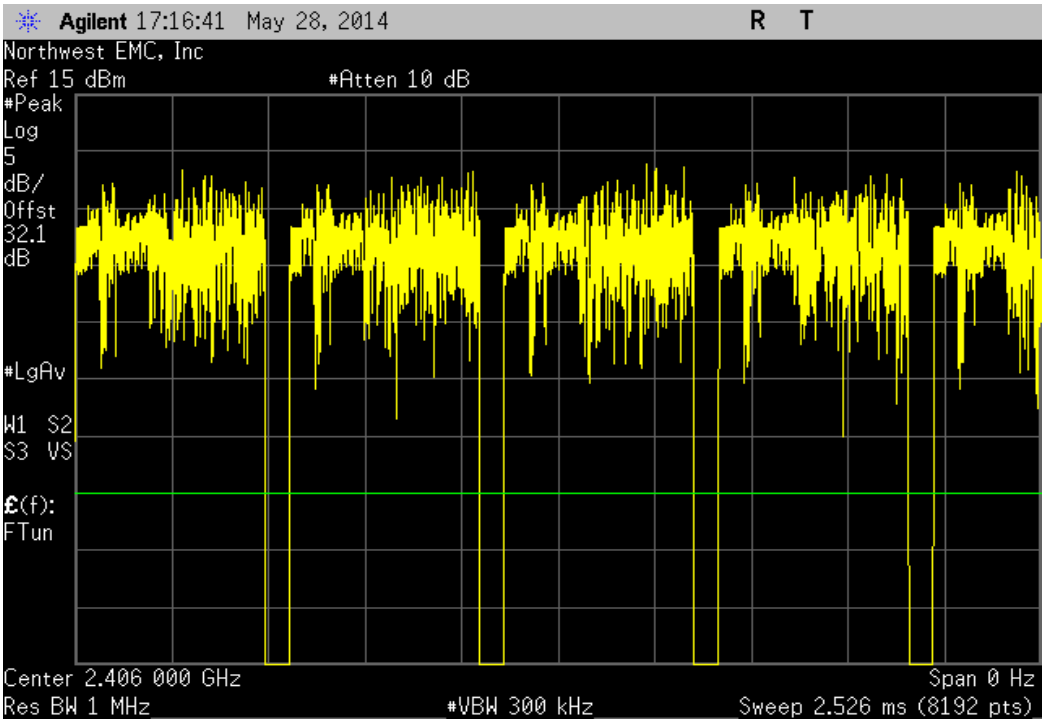


DUTY CYCLE - 3x3 MIMO

Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2406 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	496.4 uS	561.4 uS	1	88.4	N/A	N/A

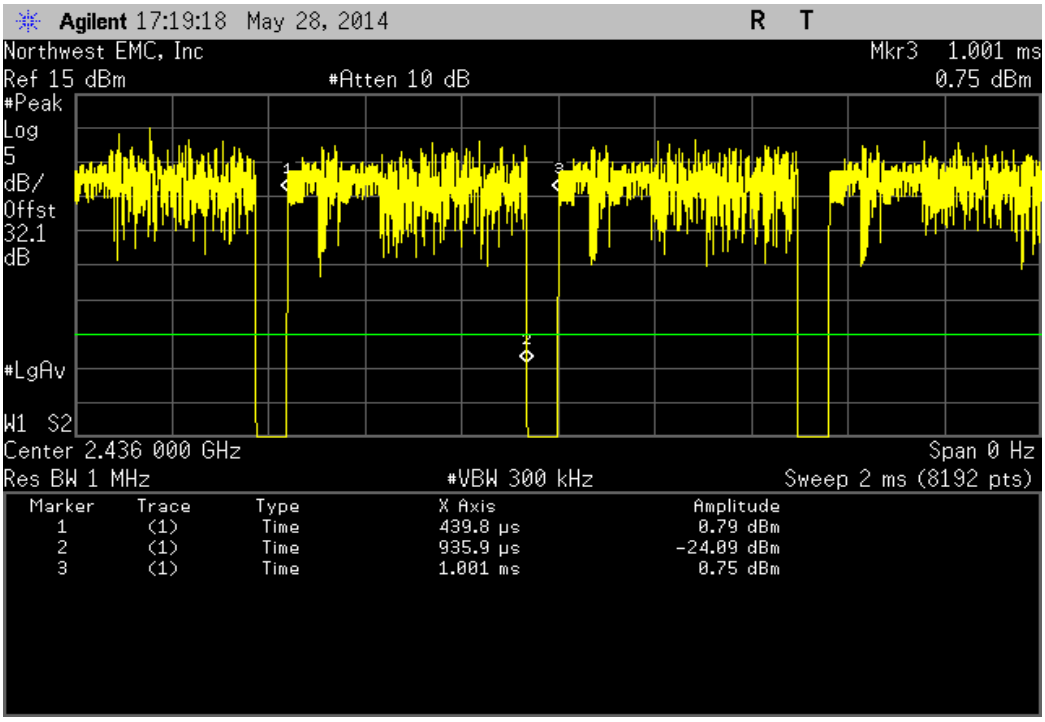


Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2406 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

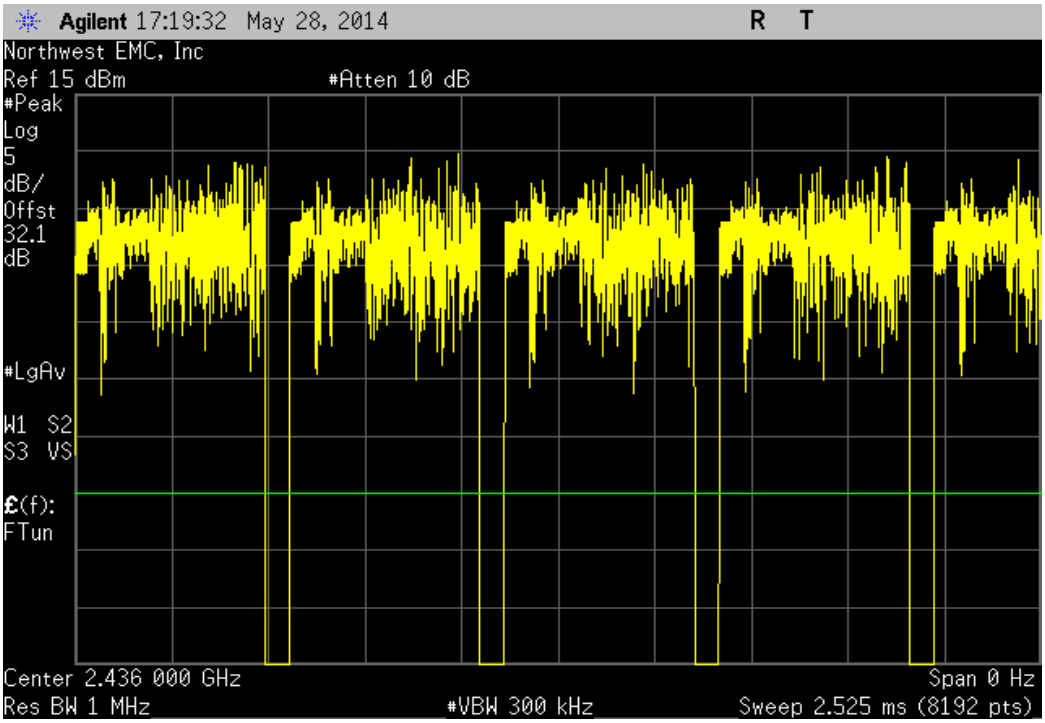


DUTY CYCLE - 3x3 MIMO

Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2436 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	496.1 uS	561.1 uS	1	88.4	N/A	N/A

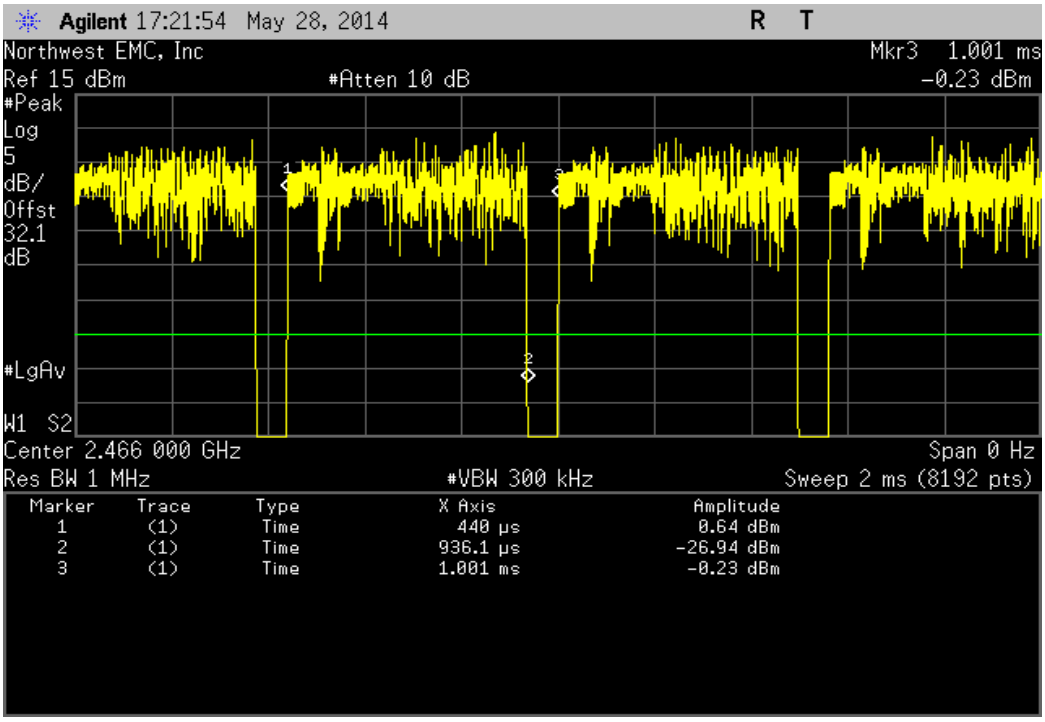


Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2436 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

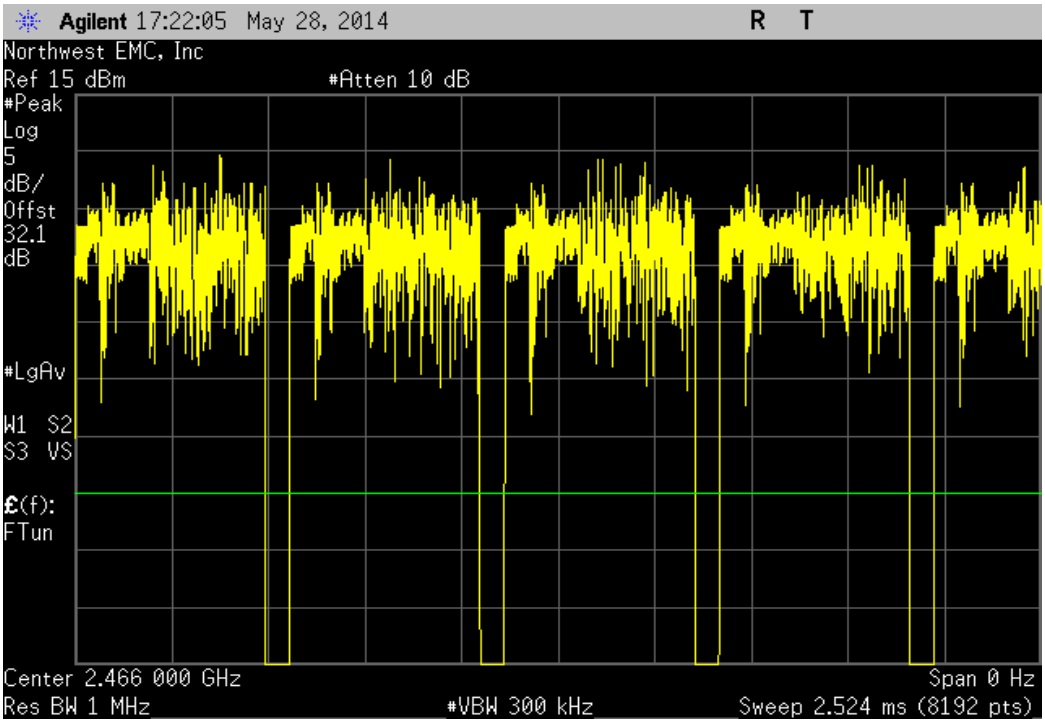


DUTY CYCLE - 3x3 MIMO

Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2466 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	496.1 uS	560.9 uS	1	88.4	N/A	N/A

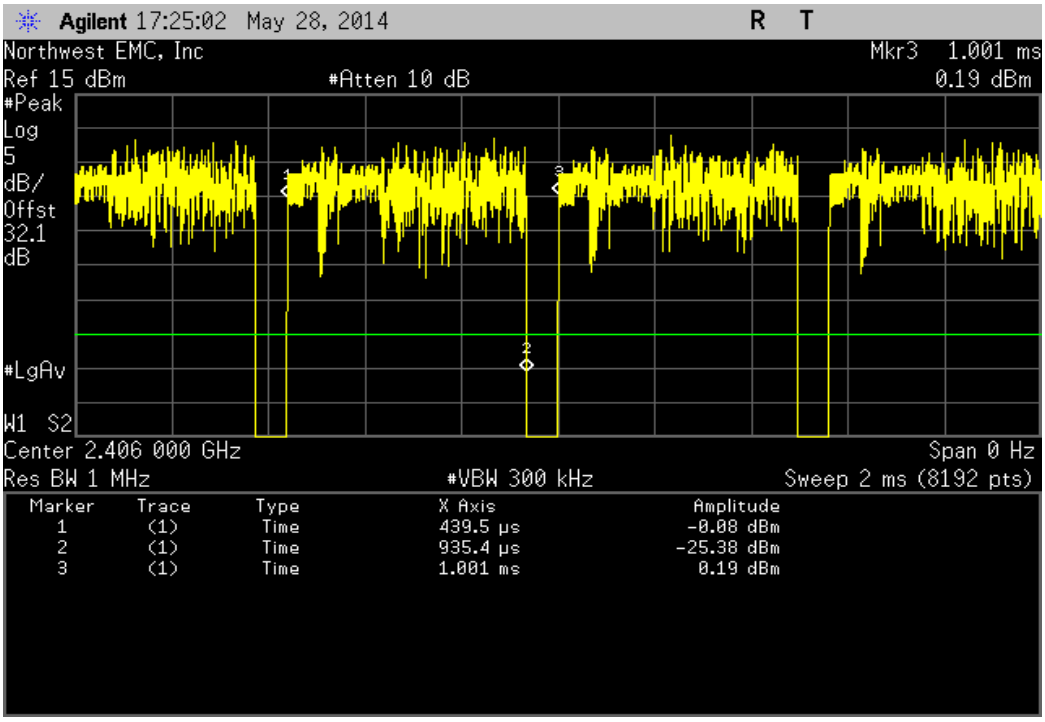


Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2466 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

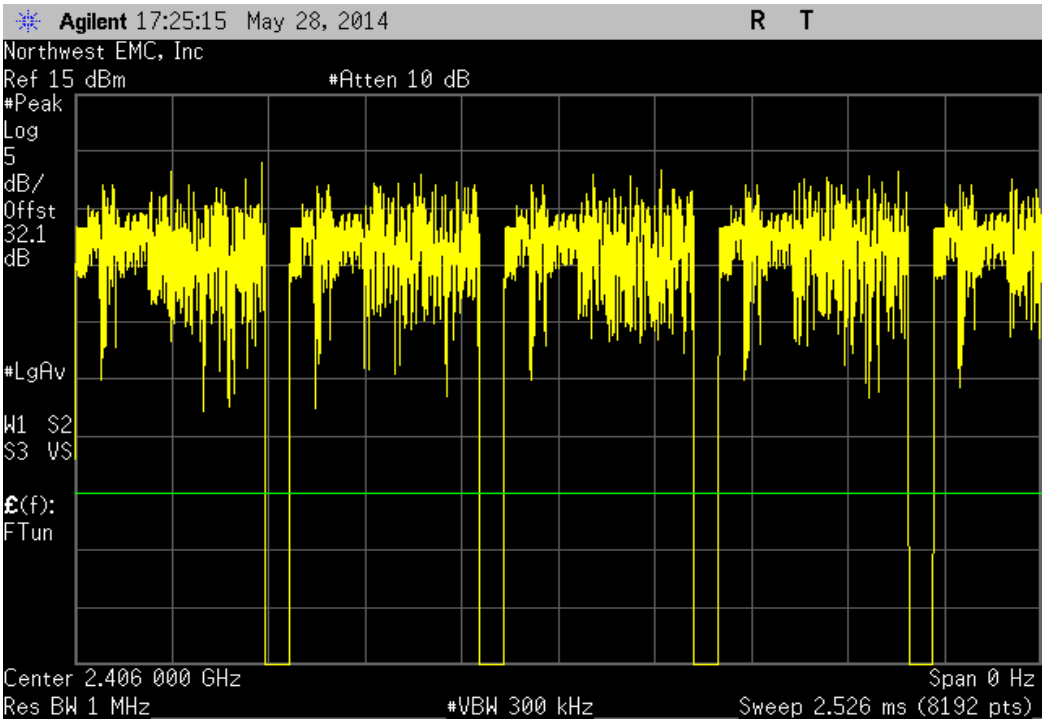


DUTY CYCLE - 3x3 MIMO

Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2406 MHz					
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
495.9 uS	561.4 uS	1	88.3	N/A	N/A



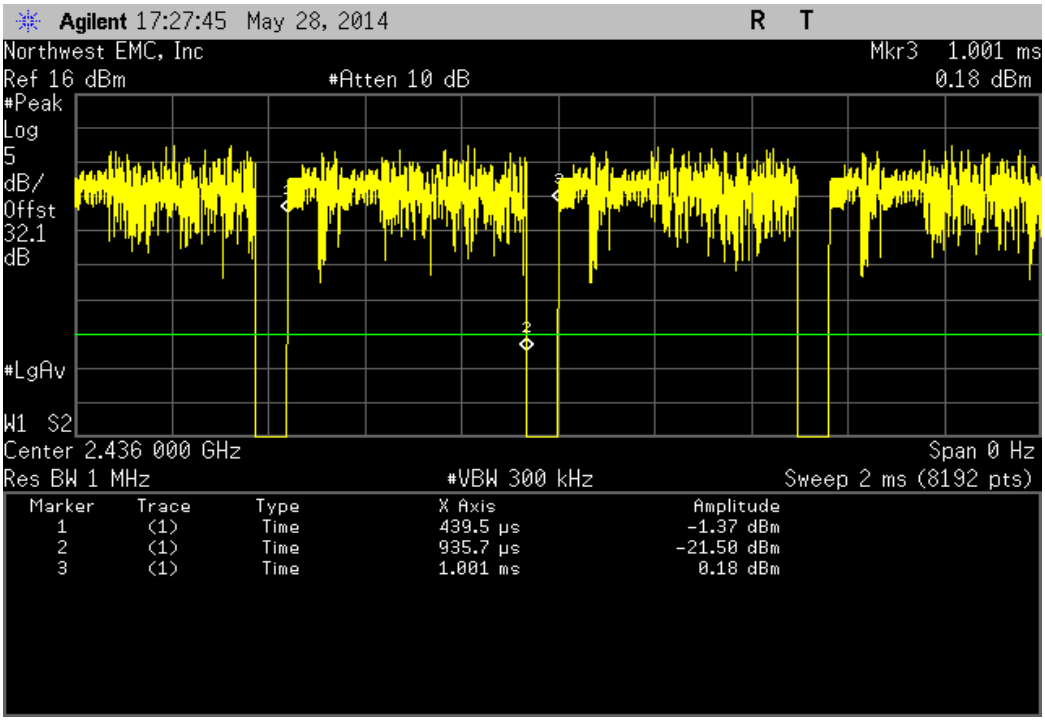
Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2406 MHz					
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 3x3 MIMO

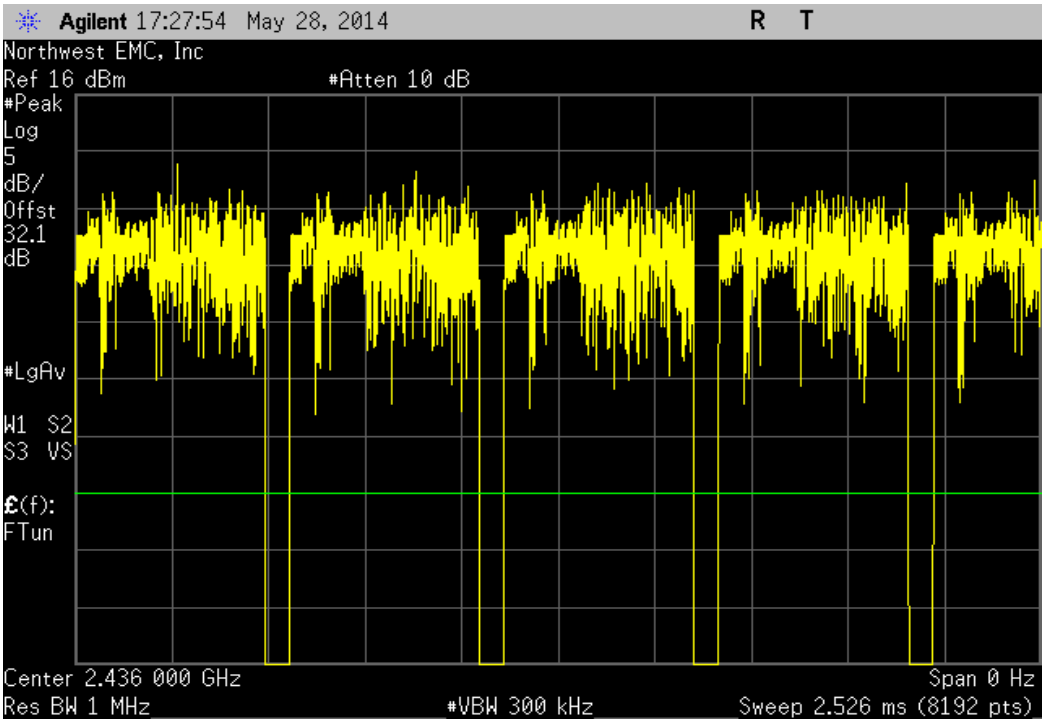
Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2436 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	496.2 uS	561.4 uS	1	88.4	N/A	N/A



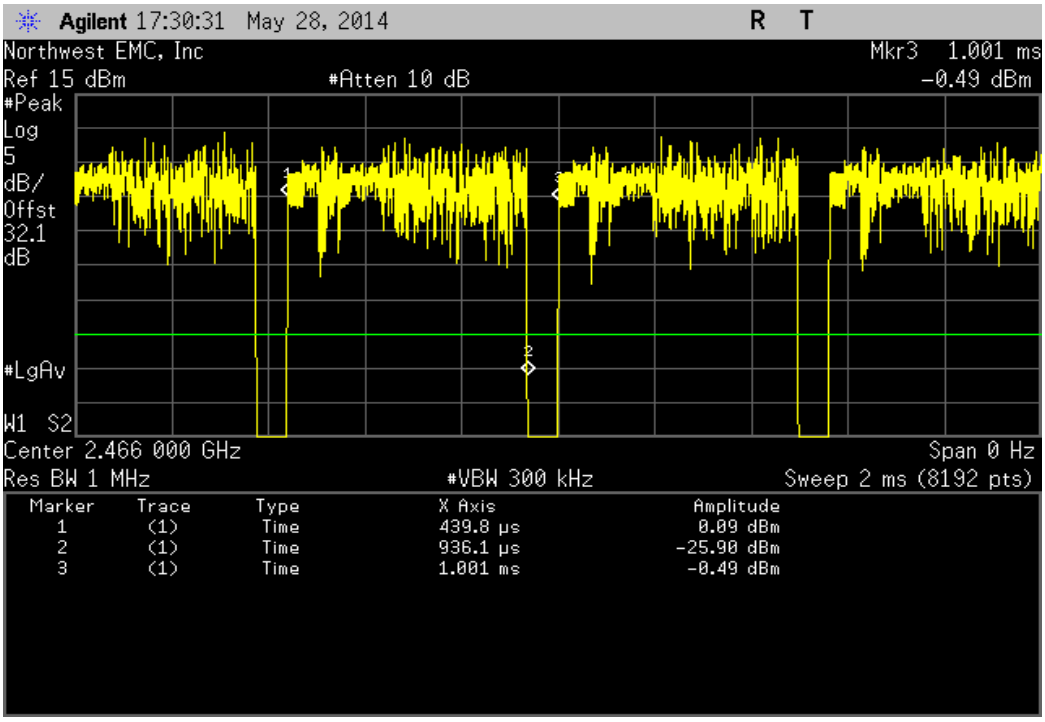
Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2436 MHz

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



DUTY CYCLE - 3x3 MIMO

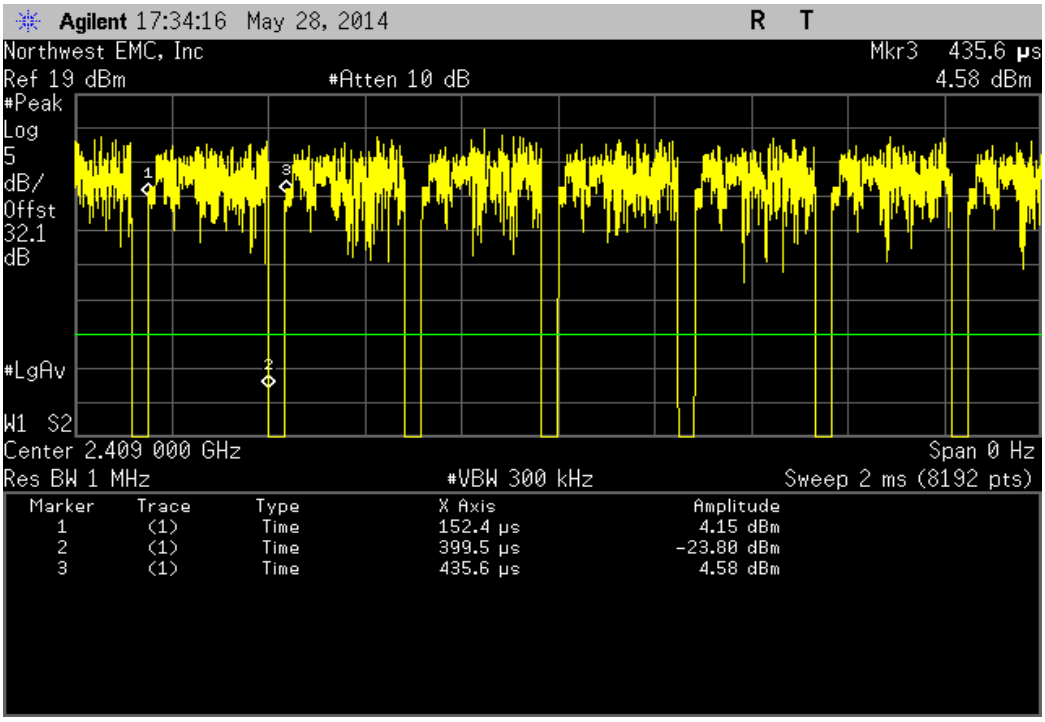
Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2466 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	496.3 uS	561.1 uS	1	88.5	N/A	N/A



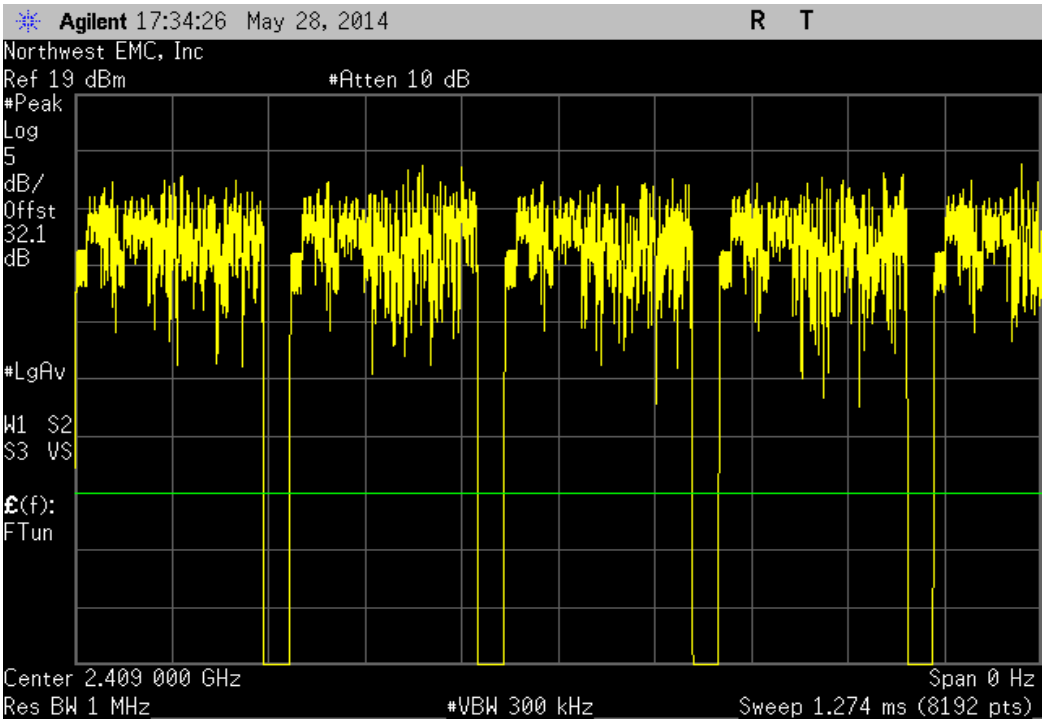
Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2466 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

DUTY CYCLE - 3x3 MIMO

Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2409 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	247.1 uS	283.2 uS	1	87.3	N/A	N/A

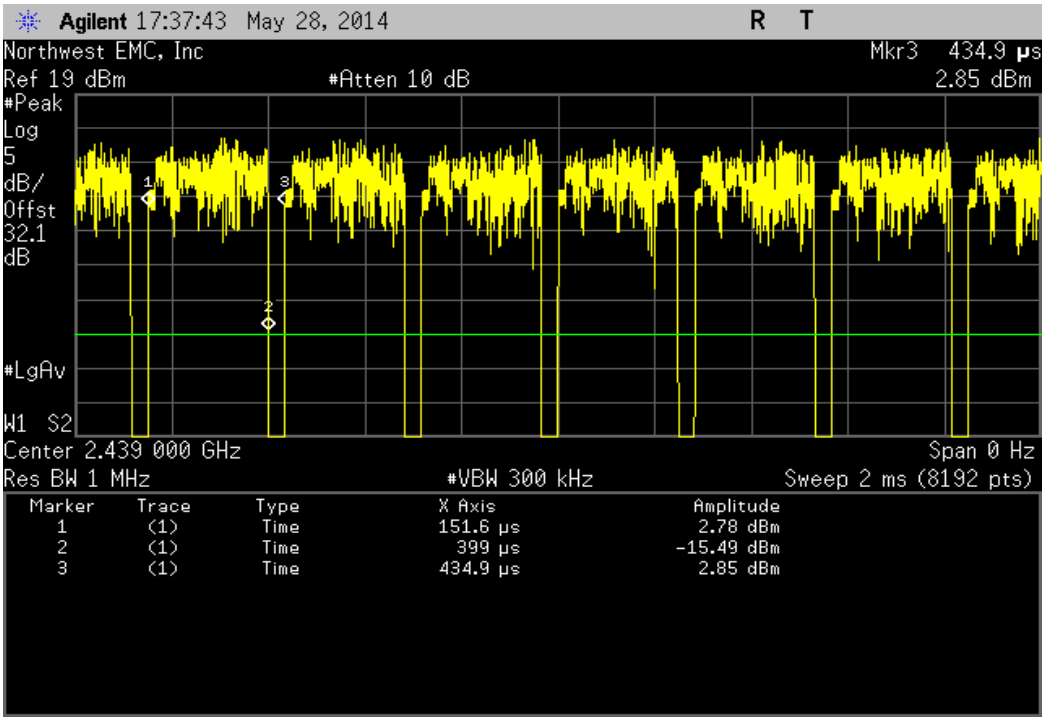


Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2409 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

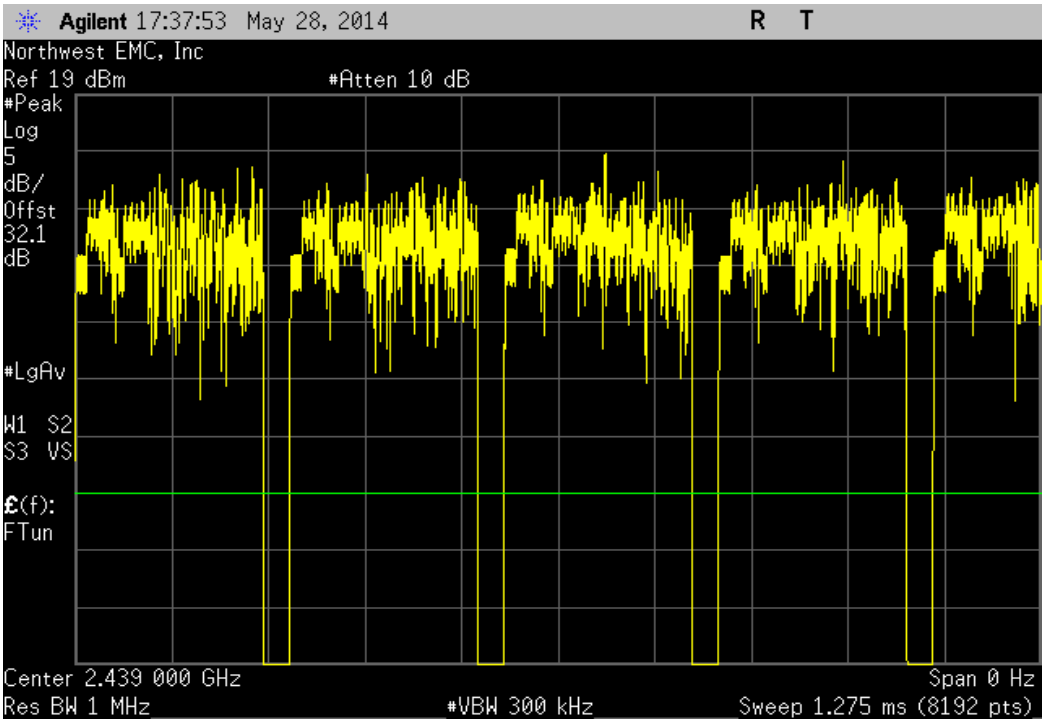


DUTY CYCLE - 3x3 MIMO

Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2439 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	247.4 uS	283.3 uS	1	87.3	N/A	N/A

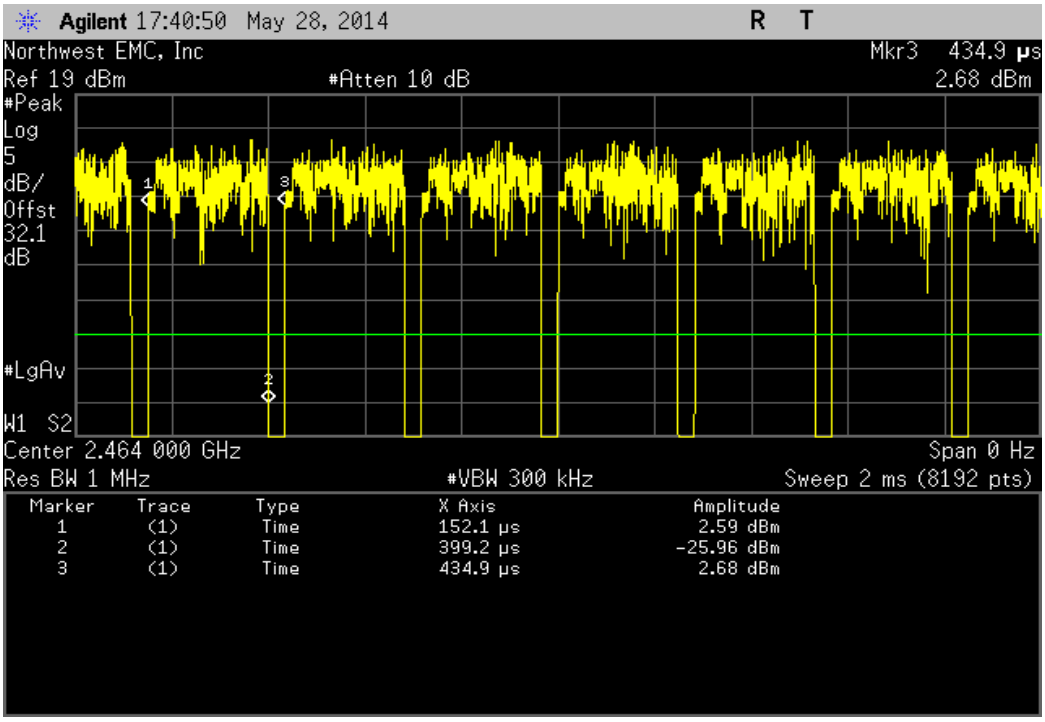


Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2439 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

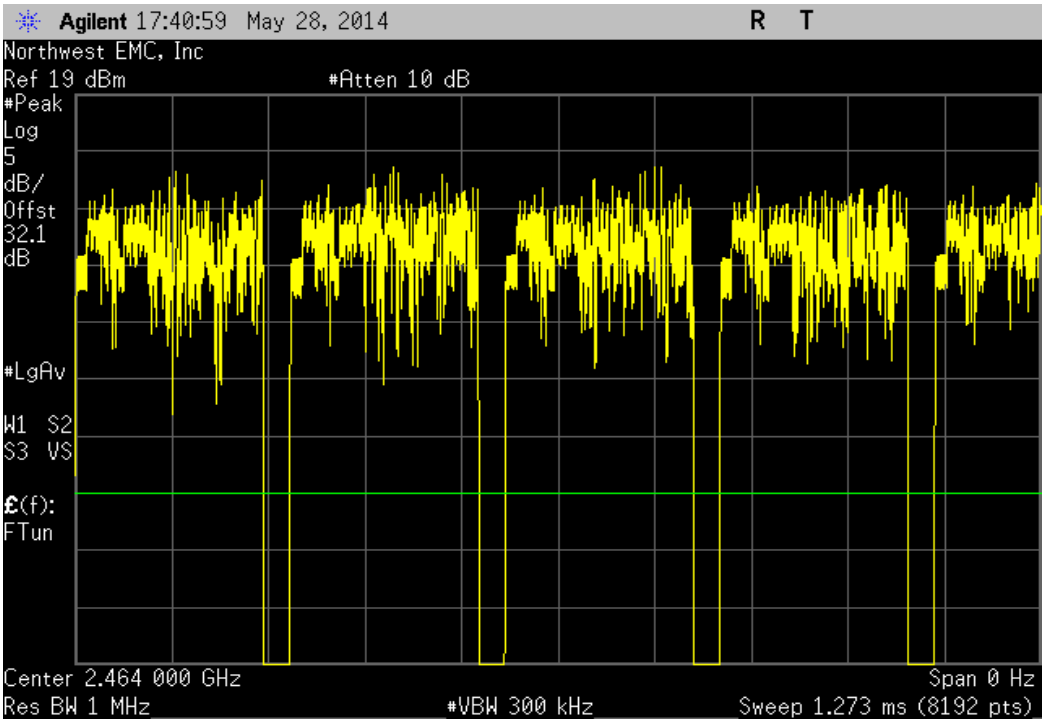


DUTY CYCLE - 3x3 MIMO

Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2464 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	247.1 uS	282.8 uS	1	87.4	N/A	N/A

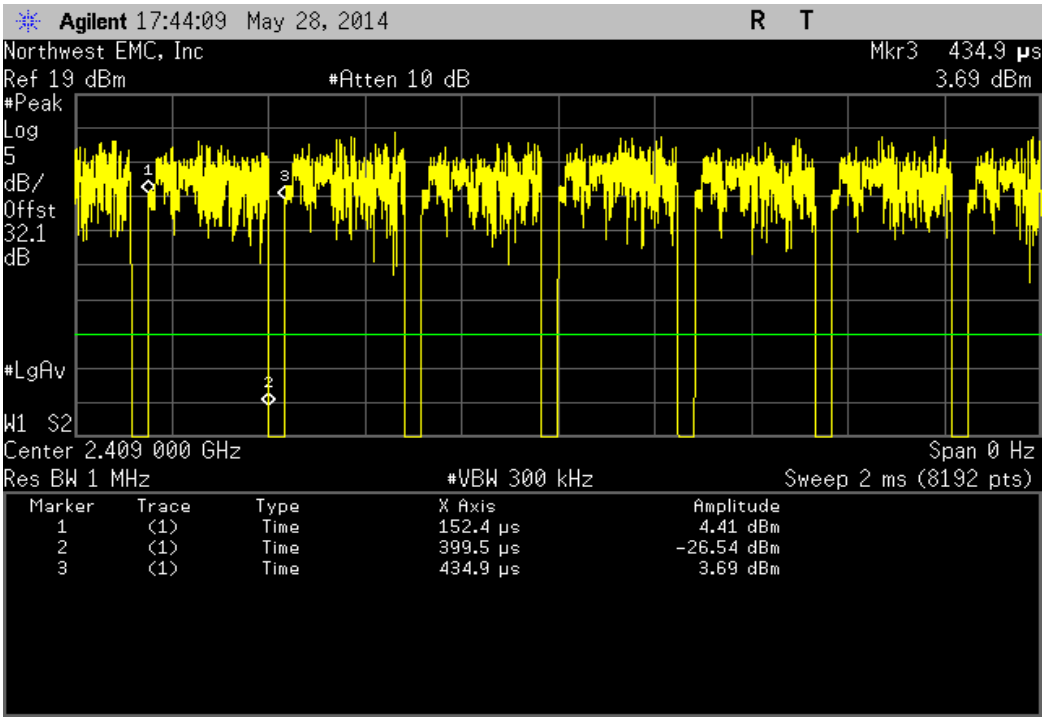


Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2464 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

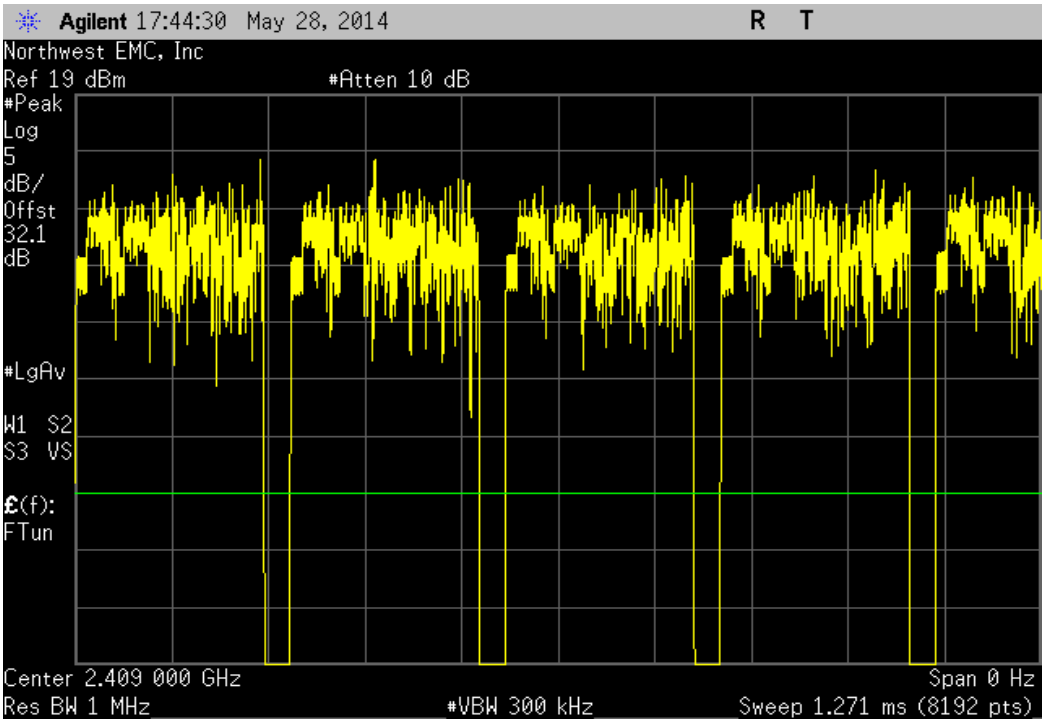


DUTY CYCLE - 3x3 MIMO

Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2409 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	247.1 uS	282.5 uS	1	87.5	N/A	N/A



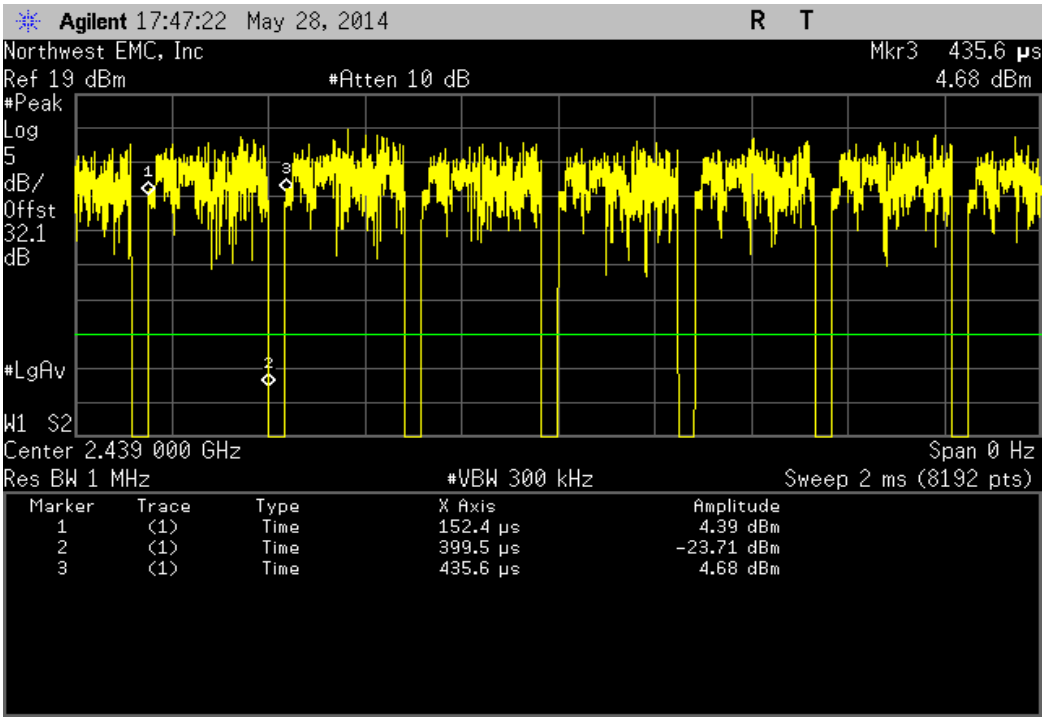
Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2409 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



DUTY CYCLE - 3x3 MIMO

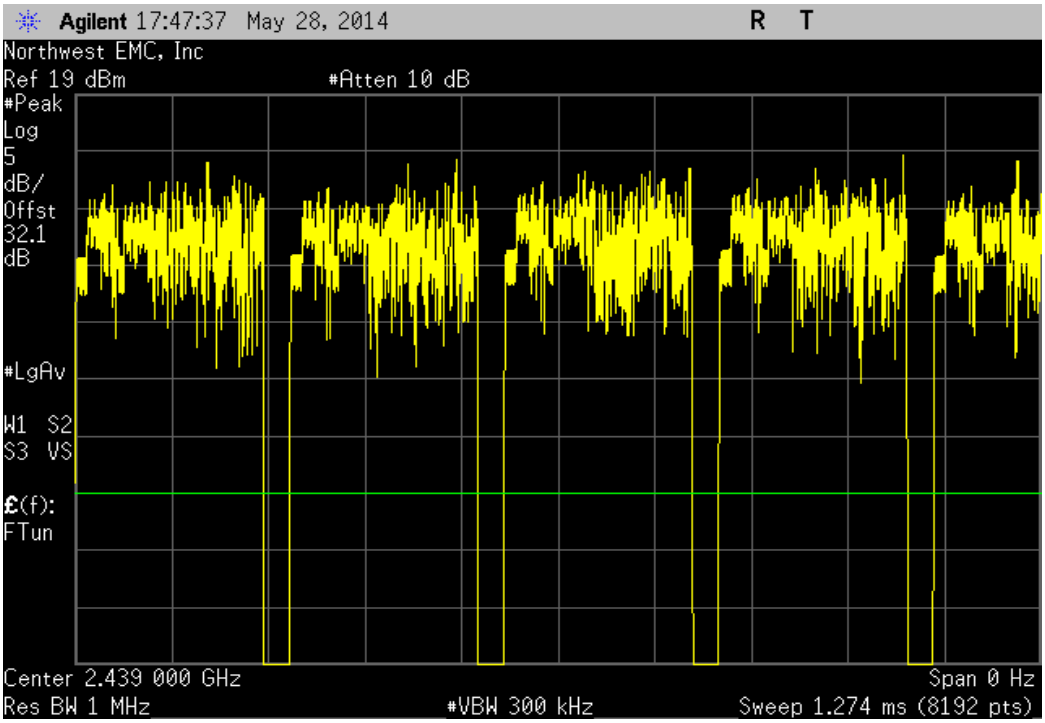
Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2439 MHz

	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	247.1 uS	283.2 uS	1	87.3	N/A	N/A



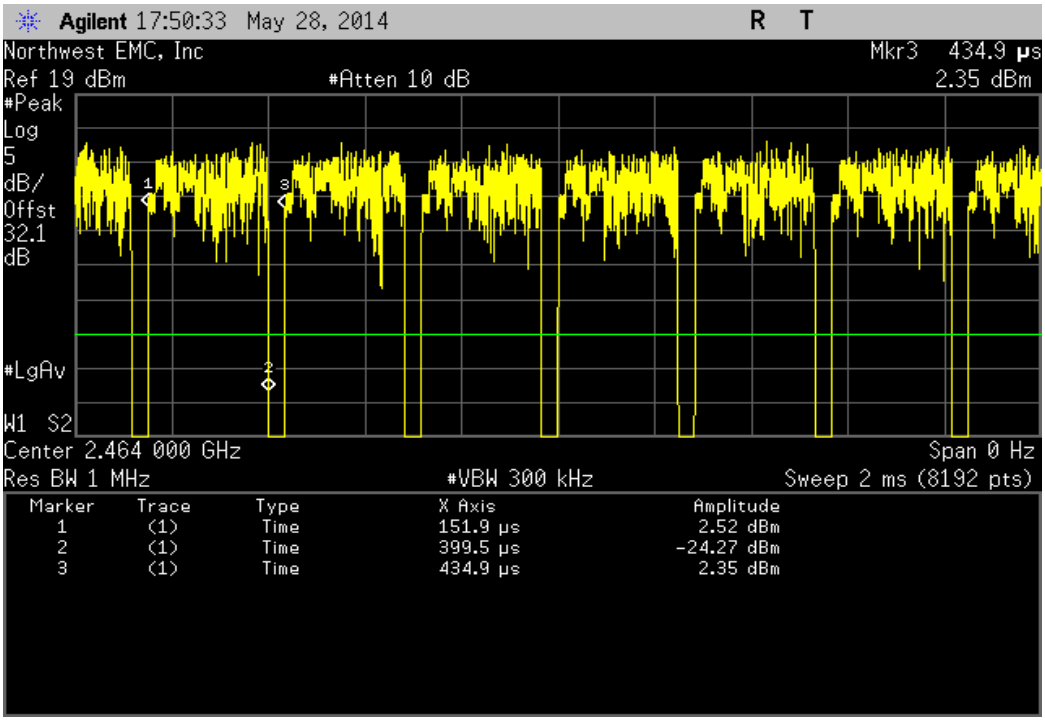
Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2439 MHz

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

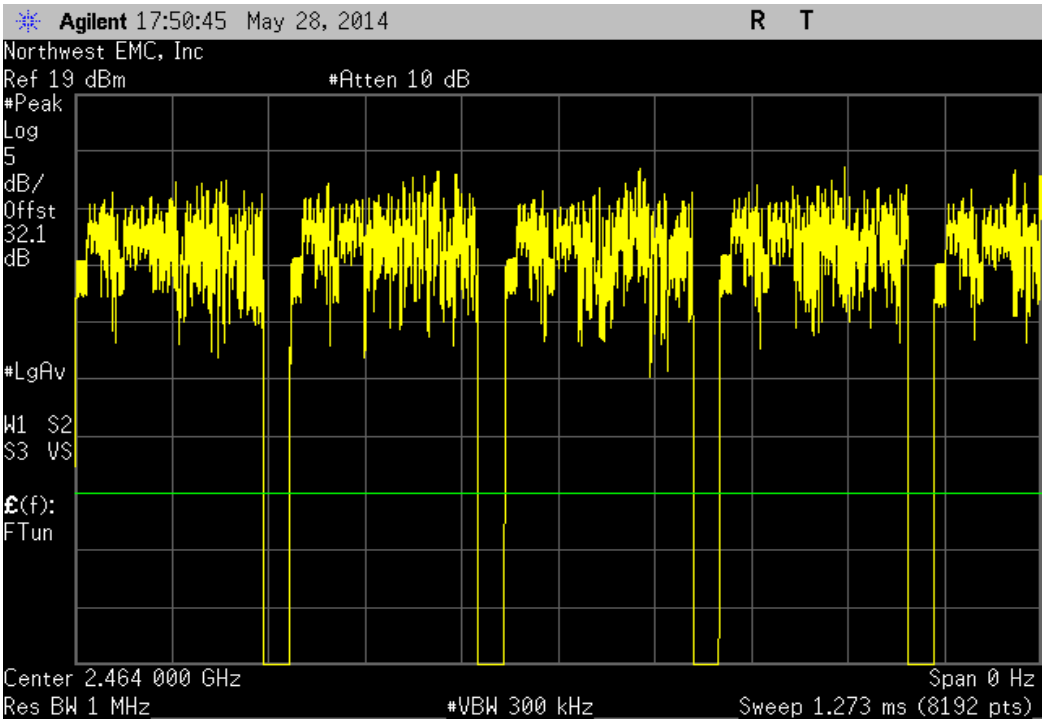


DUTY CYCLE - 3x3 MIMO

Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2464 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	247.6 uS	283 uS	1	87.5	N/A	N/A



Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2464 MHz					
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



OCCUPIED BANDWIDTH - SISO

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
40GHz DC Block	Miteq	DCB4000	AMD	4/28/2014	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 6 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-6	AUX	7/30/2013	12
Power Meter	Agilent	N1913A	SQR	4/29/2013	36
Power Sensor	Agilent	E9300H	SQO	4/29/2013	36
Spectrum Analyzer	Agilent	E4446A	AAQ	1/21/2014	24
MXG MW Analog Signal Generator 40 Gig	Agilent	N5183A	TID	9/19/2011	36

TEST DESCRIPTION

The 6dB occupied bandwidth was measured using 100 kHz resolution bandwidth and 300 kHz video bandwidth. The 99.9% (approximate 26 dB) emission bandwidth (EBW) was also measured at the same time.

The EUT was set to low, medium and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet.

OCCUPIED BANDWIDTH - SISO

EUT:	WavePoint 10e Industrial Wireless Router (W2400-01)	**Work Order:**	FREW0026
Serial Number:	135268908	**Date:**	05/29/14
Customer:	FreeWave Technologies, Inc.	**Temperature:**	22°C
Attendees:	Dean Busch	**Humidity:**	36%
Project:	None	**Barometric Pres.:**	1022
Tested by:	Brandon Hobbs, Jared Ison	**Job Site:**	EV06
Power:	12 VDC		

TEST SPECIFICATIONS	Test Method
FCC 15.247:2014	ANSI C63.10:2009

COMMENTS

An additional 10dB 5watt attenuater was used inline for all measurements made while under test. Please reference the power levels for this test in the power level table.

DEVIATIONS FROM TEST STANDARD

None

Configuration #	1	Signature

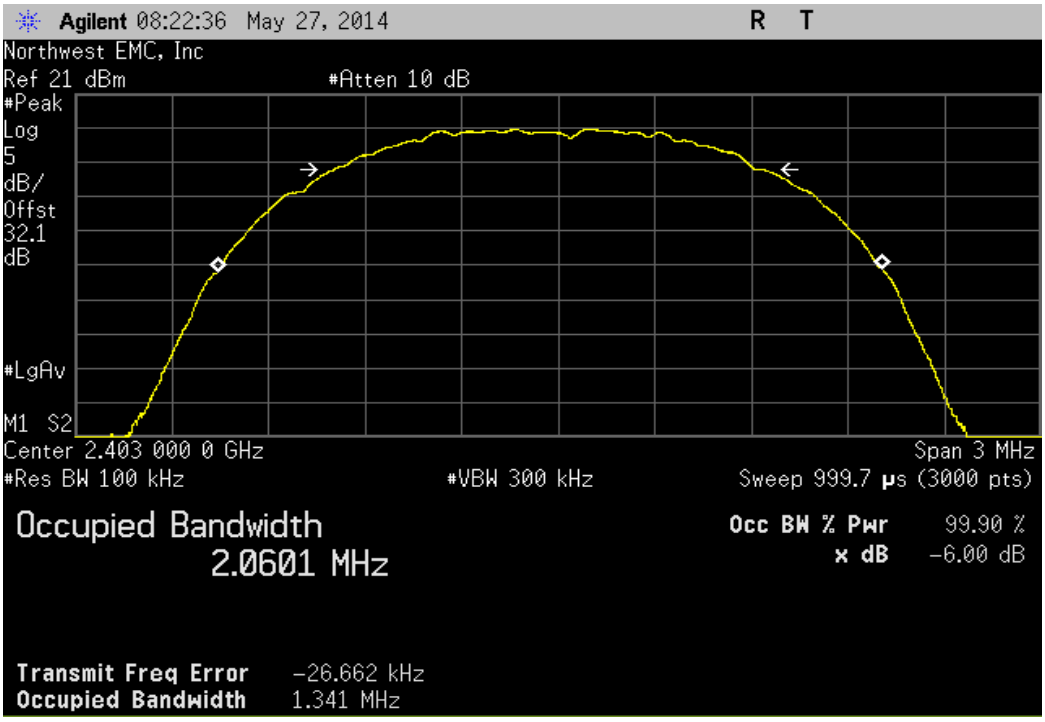
	Value	Limit	Result
2400 MHz - 2483.5 MHz Band			
2.5MHz Bandwidth			
Modulation Type, DBPSK.			
Low Channel 2403 MHz	1.341 MHz	> 500 kHz	Pass
Mid Channel 2435 MHz	1.346 MHz	> 500 kHz	Pass
High Channel 2470 MHz	1.344 MHz	> 500 kHz	Pass
Modulation Type, QPSK.			
Low Channel 2403 MHz	1.279 MHz	> 500 kHz	Pass
Mid Channel 2435 MHz	1.312 MHz	> 500 kHz	Pass
High Channel 2470 MHz	1.319 MHz	> 500 kHz	Pass
Modulation Type, BPSK, Coding Rate, 1/2			
Low Channel 2403 MHz	2.11 MHz	> 500 kHz	Pass
Mid Channel 2435 MHz	2.112 MHz	> 500 kHz	Pass
High Channel 2470 MHz	2.086 MHz	> 500 kHz	Pass
Modulation Type, 16-QAM, Coding Rate, 3/4.			
Low Channel 2403 MHz	2.091 MHz	> 500 kHz	Pass
Mid Channel 2435 MHz	2.092 MHz	> 500 kHz	Pass
High Channel 2470 MHz	2.11 MHz	> 500 kHz	Pass
Modulation Type, 64-QAM, Coding Rate, 3/4.			
Low Channel 2403 MHz	2.095 MHz	> 500 kHz	Pass
Mid Channel 2435 MHz	2.096 MHz	> 500 kHz	Pass
High Channel 2470 MHz	2.103 MHz	> 500 kHz	Pass
Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 2403 MHz	2.231 MHz	> 500 kHz	Pass
Mid Channel 2435 MHz	2.22 MHz	> 500 kHz	Pass
High Channel 2470 MHz	2.243 MHz	> 500 kHz	Pass
Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 2403 MHz	2.229 MHz	> 500 kHz	Pass
Mid Channel 2435 MHz	2.243 MHz	> 500 kHz	Pass
High Channel 2470 MHz	2.231 MHz	> 500 kHz	Pass
5MHz Bandwidth			
Modulation Type, DBPSK.			
Low Channel 2406 MHz	2.569 MHz	> 500 kHz	Pass
Mid Channel 2436 MHz	2.573 MHz	> 500 kHz	Pass
High Channel 2466 MHz	2.572 MHz	> 500 kHz	Pass
Modulation Type, QPSK.			
Low Channel 2406 MHz	2.505 MHz	> 500 kHz	Pass
Mid Channel 2436 MHz	2.497 MHz	> 500 kHz	Pass
High Channel 2466 MHz	2.58 MHz	> 500 kHz	Pass
Modulation Type, BPSK, Coding Rate, 1/2			
Low Channel 2406 MHz	4.118 MHz	> 500 kHz	Pass
Mid Channel 2436 MHz	4.114 MHz	> 500 kHz	Pass
High Channel 2466 MHz	4.129 MHz	> 500 kHz	Pass
Modulation Type, 16-QAM, Coding Rate, 3/4.			
Low Channel 2406 MHz	4.136 MHz	> 500 kHz	Pass
Mid Channel 2436 MHz	4.142 MHz	> 500 kHz	Pass
High Channel 2466 MHz	4.136 MHz	> 500 kHz	Pass
Modulation Type, 64-QAM, Coding Rate, 3/4.			
Low Channel 2406 MHz	4.138 MHz	> 500 kHz	Pass
Mid Channel 2436 MHz	4.133 MHz	> 500 kHz	Pass
High Channel 2466 MHz	4.13 MHz	> 500 kHz	Pass
Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 2406 MHz	4.463 MHz	> 500 kHz	Pass
Mid Channel 2436 MHz	4.488 MHz	> 500 kHz	Pass
High Channel 2466 MHz	4.481 MHz	> 500 kHz	Pass
Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 2406 MHz	4.484 MHz	> 500 kHz	Pass
Mid Channel 2436 MHz	4.443 MHz	> 500 kHz	Pass
High Channel 2466 MHz	4.469 MHz	> 500 kHz	Pass
10MHz Bandwidth			
Modulation Type, DBPSK.			
Low Channel 2409 MHz	5.079 MHz	> 500 kHz	Pass
Mid Channel 2439 MHz	5.084 MHz	> 500 kHz	Pass
High Channel 2464 MHz	5.08 MHz	> 500 kHz	Pass
Modulation Type, QPSK.			
Low Channel 2409 MHz	5.123 MHz	> 500 kHz	Pass
Mid Channel 2439 MHz	5.352 MHz	> 500 kHz	Pass
High Channel 2464 MHz	5.06 MHz	> 500 kHz	Pass

Modulation Type, BPSK, Coding Rate, 1/2			
Low Channel 2409 MHz	8.222 MHz	> 500 kHz	Pass
Mid Channel 2439 MHz	8.229 MHz	> 500 kHz	Pass
High Channel 2464 MHz	8.224 MHz	> 500 kHz	Pass
Modulation Type, 16-QAM, Coding Rate, 3/4.			
Low Channel 2409 MHz	8.289 MHz	> 500 kHz	Pass
Mid Channel 2439 MHz	8.29 MHz	> 500 kHz	Pass
High Channel 2464 MHz	8.279 MHz	> 500 kHz	Pass
Modulation Type, 64-QAM, Coding Rate, 3/4.			
Low Channel 2409 MHz	8.261 MHz	> 500 kHz	Pass
Mid Channel 2439 MHz	8.27 MHz	> 500 kHz	Pass
High Channel 2464 MHz	8.268 MHz	> 500 kHz	Pass
Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 2409 MHz	8.877 MHz	> 500 kHz	Pass
Mid Channel 2439 MHz	8.886 MHz	> 500 kHz	Pass
High Channel 2464 MHz	8.901 MHz	> 500 kHz	Pass
Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 2409 MHz	8.899 MHz	> 500 kHz	Pass
Mid Channel 2439 MHz	8.894 MHz	> 500 kHz	Pass
High Channel 2464 MHz	8.942 MHz	> 500 kHz	Pass

OCCUPIED BANDWIDTH - SISO

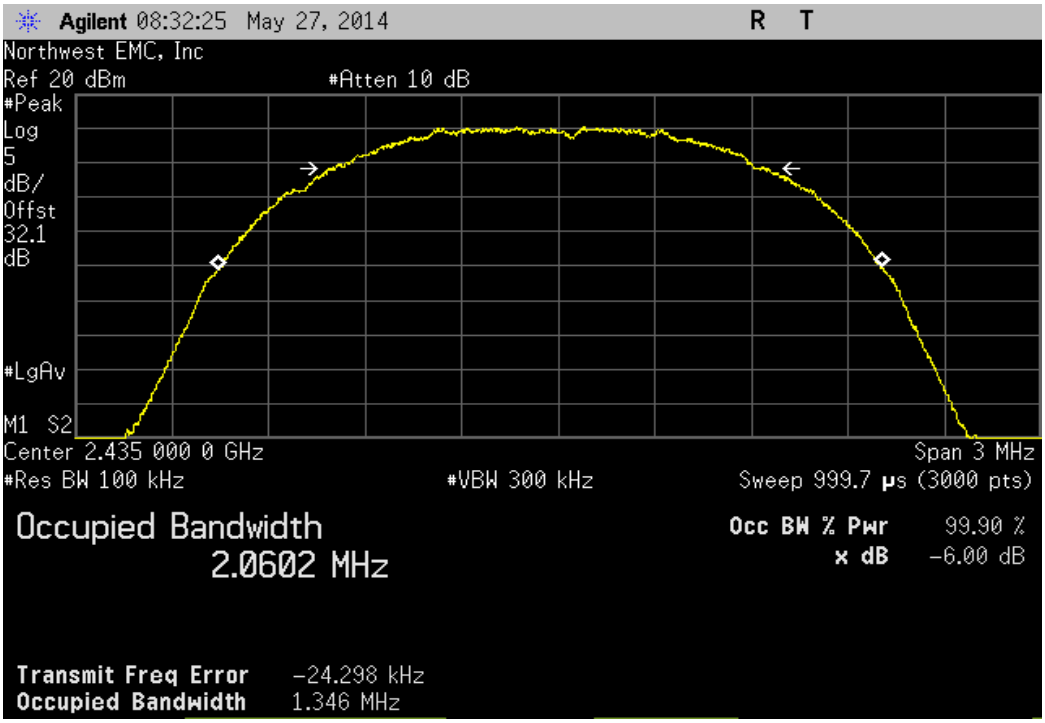
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, DBPSK., Low Channel 2403 MHz

				Value	Limit	Result
				1.341 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, DBPSK., Mid Channel 2435 MHz

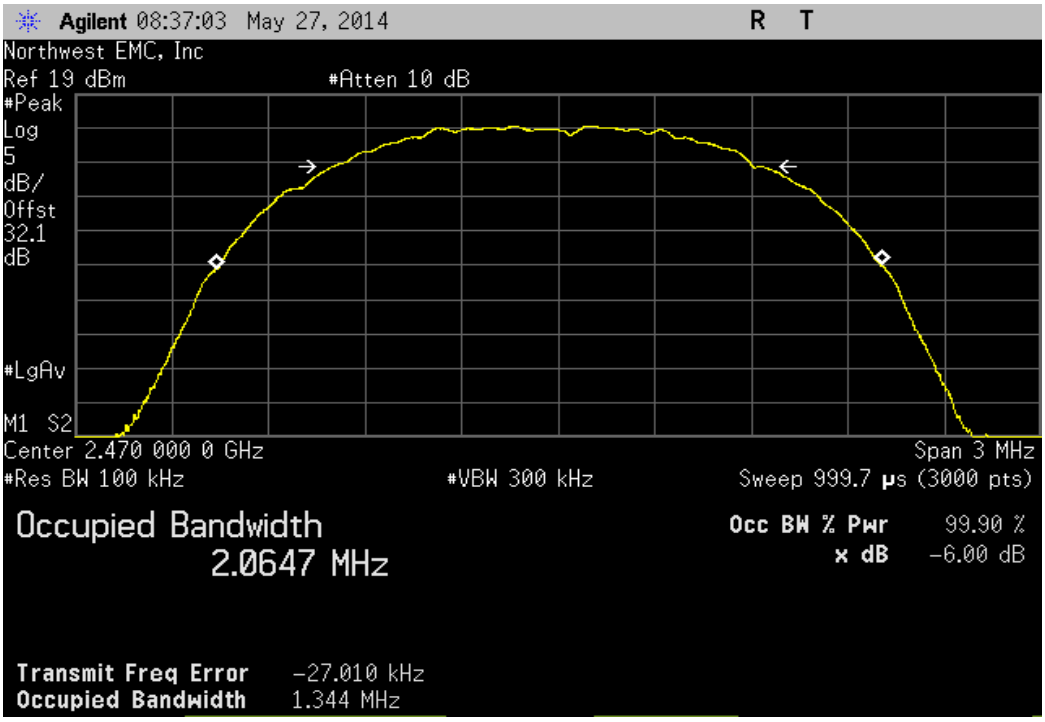
				Value	Limit	Result
				1.346 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

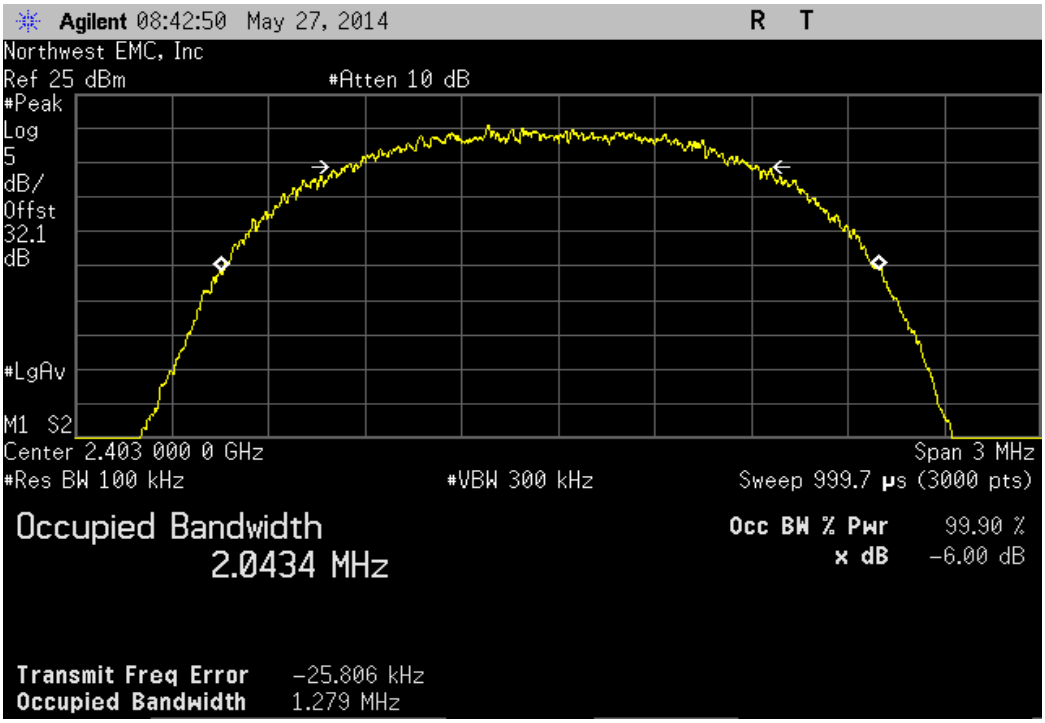
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, DBPSK., High Channel 2470 MHz

				Value	Limit	Result
				1.344 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, QPSK., Low Channel 2403 MHz

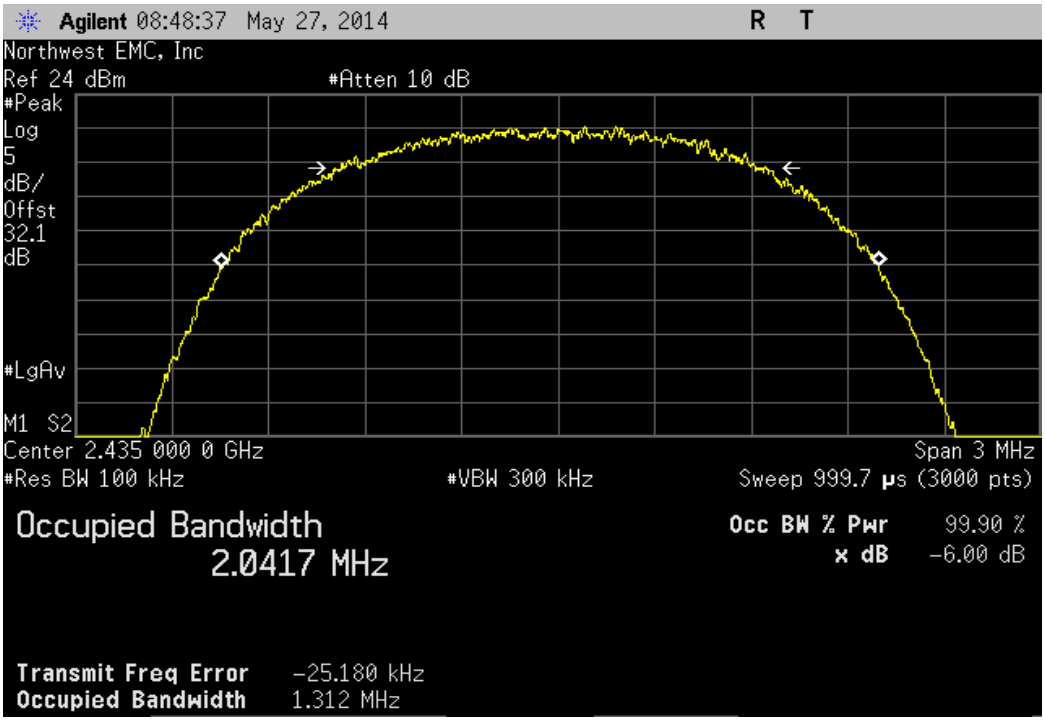
				Value	Limit	Result
				1.279 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

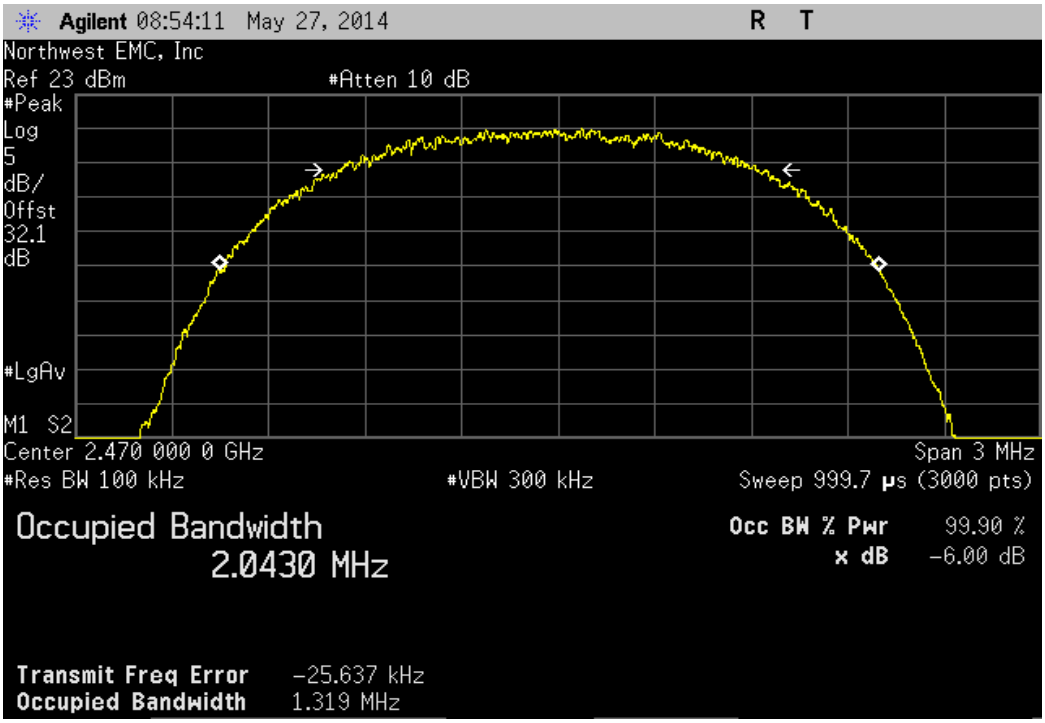
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, QPSK., Mid Channel 2435 MHz

				Value	Limit	Result
				1.312 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, QPSK., High Channel 2470 MHz

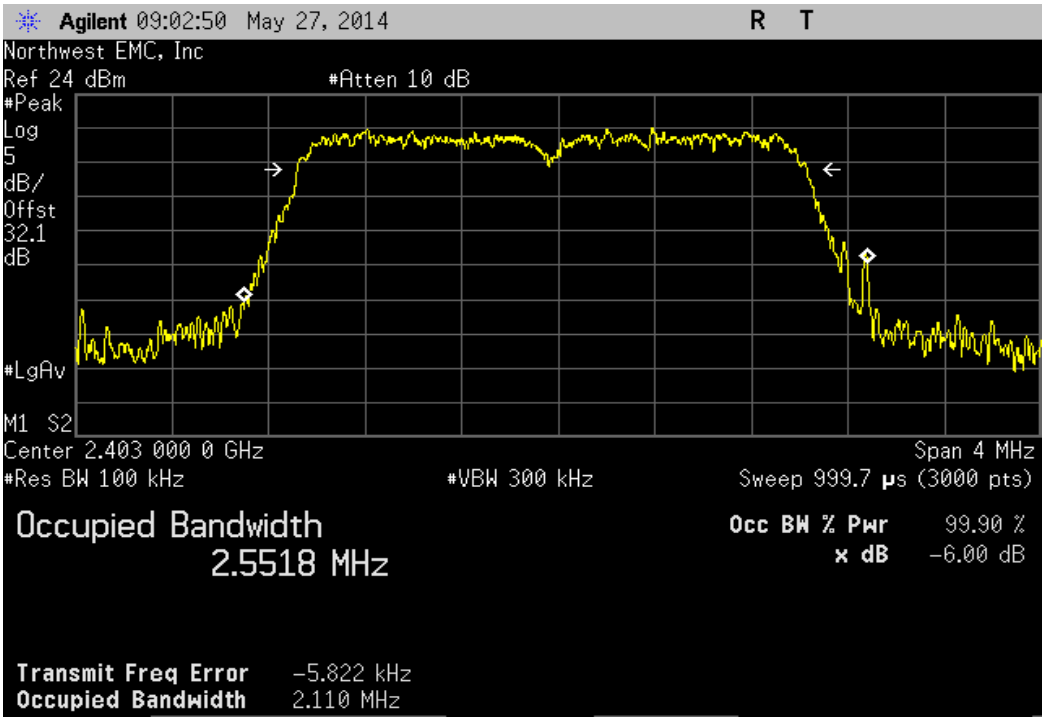
				Value	Limit	Result
				1.319 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

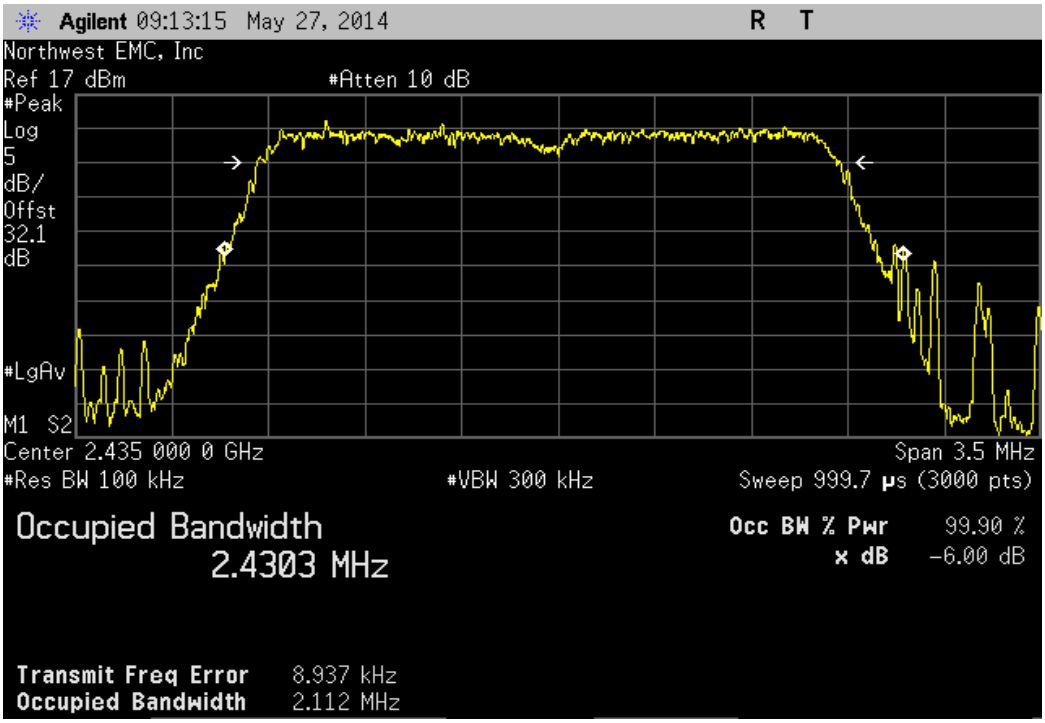
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 2403 MHz

				Value	Limit	Result
				2.11 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Mid Channel 2435 MHz

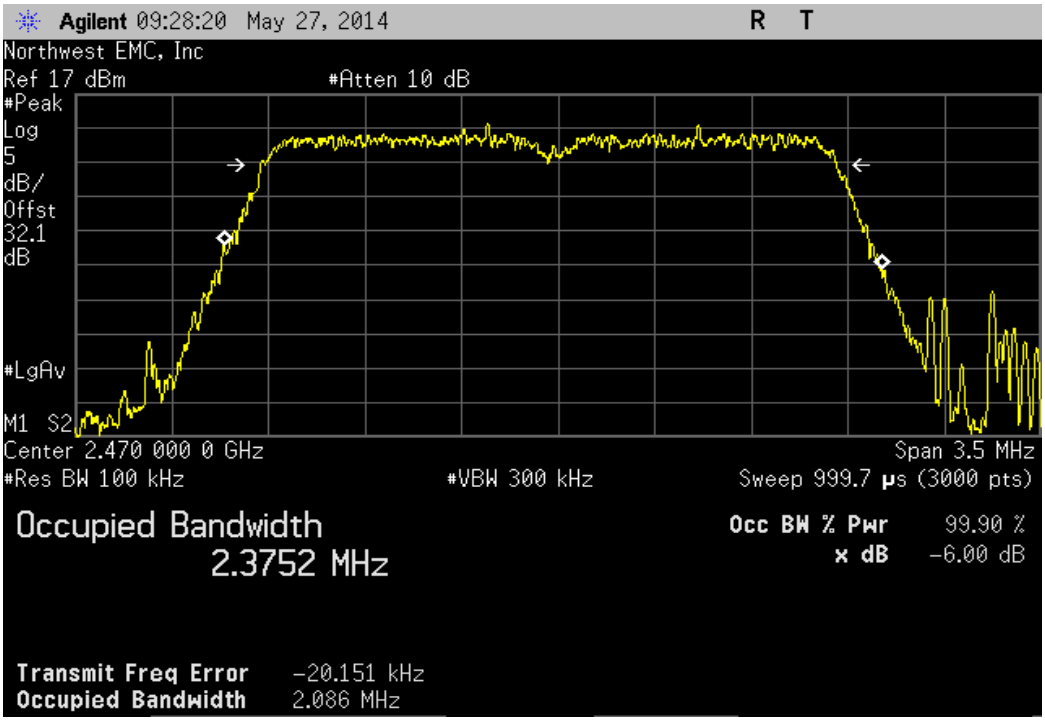
				Value	Limit	Result
				2.112 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

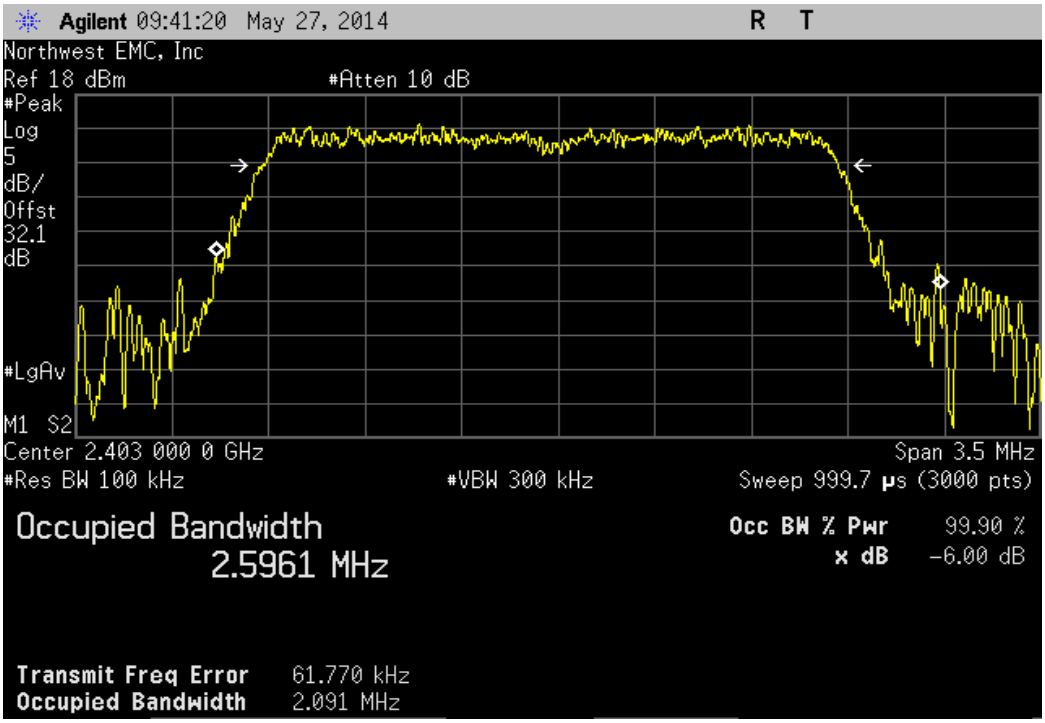
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, High Channel 2470 MHz

				Value	Limit	Result
				2.086 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4., Low Channel 2403 MHz

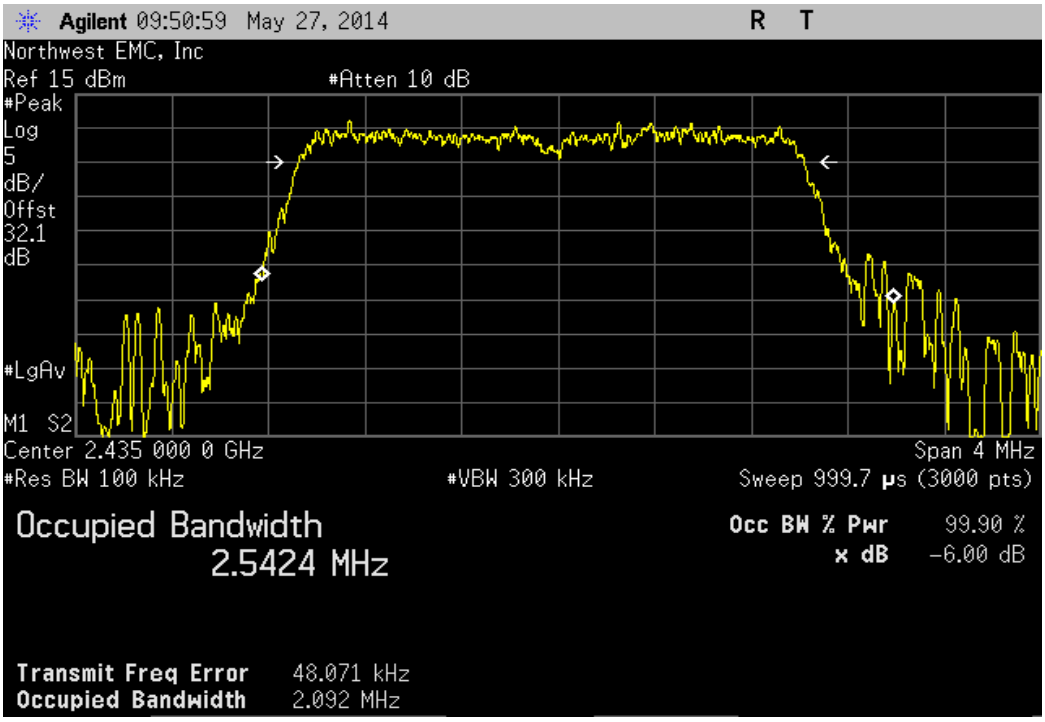
				Value	Limit	Result
				2.091 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

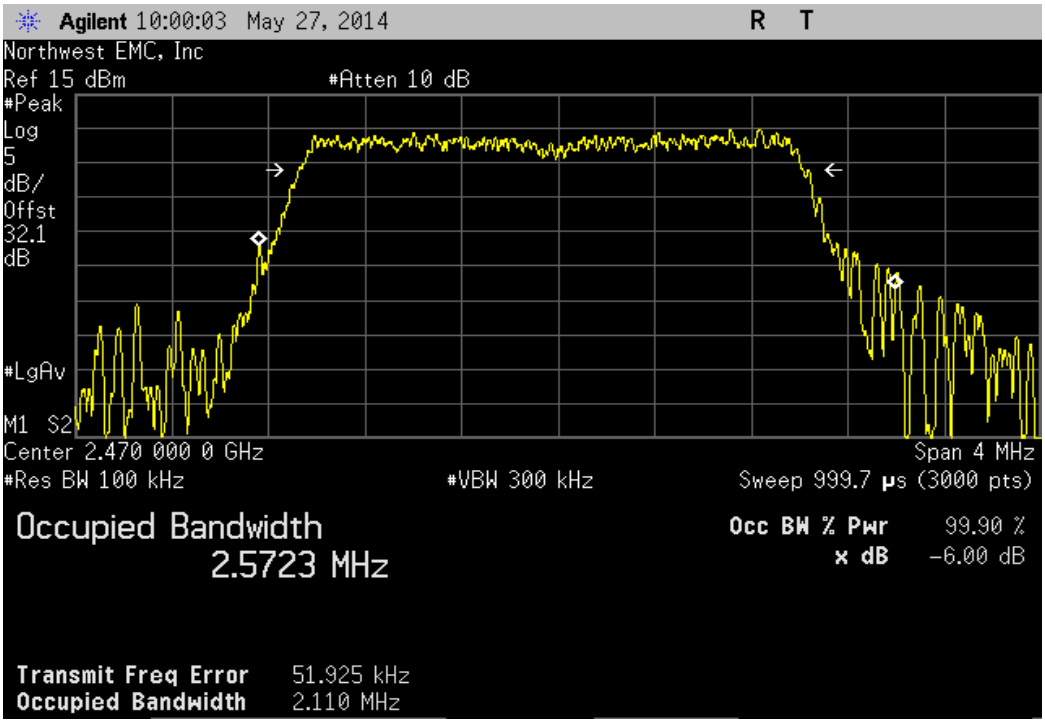
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4., Mid Channel 2435 MHz

				Value	Limit	Result
				2.092 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4., High Channel 2470 MHz

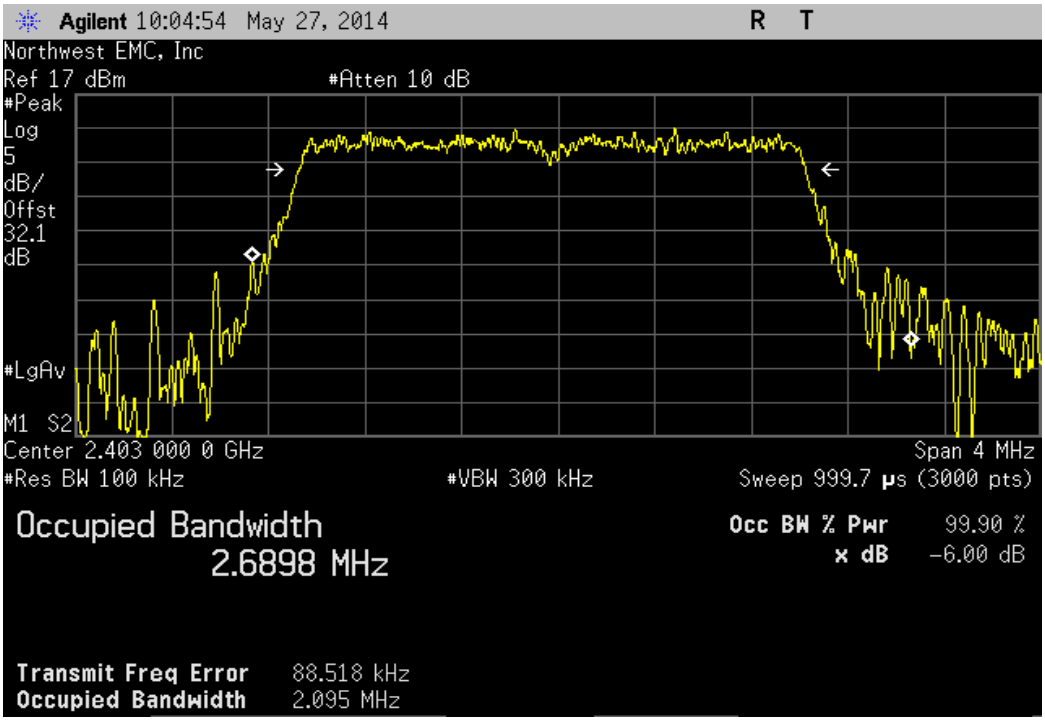
				Value	Limit	Result
				2.11 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

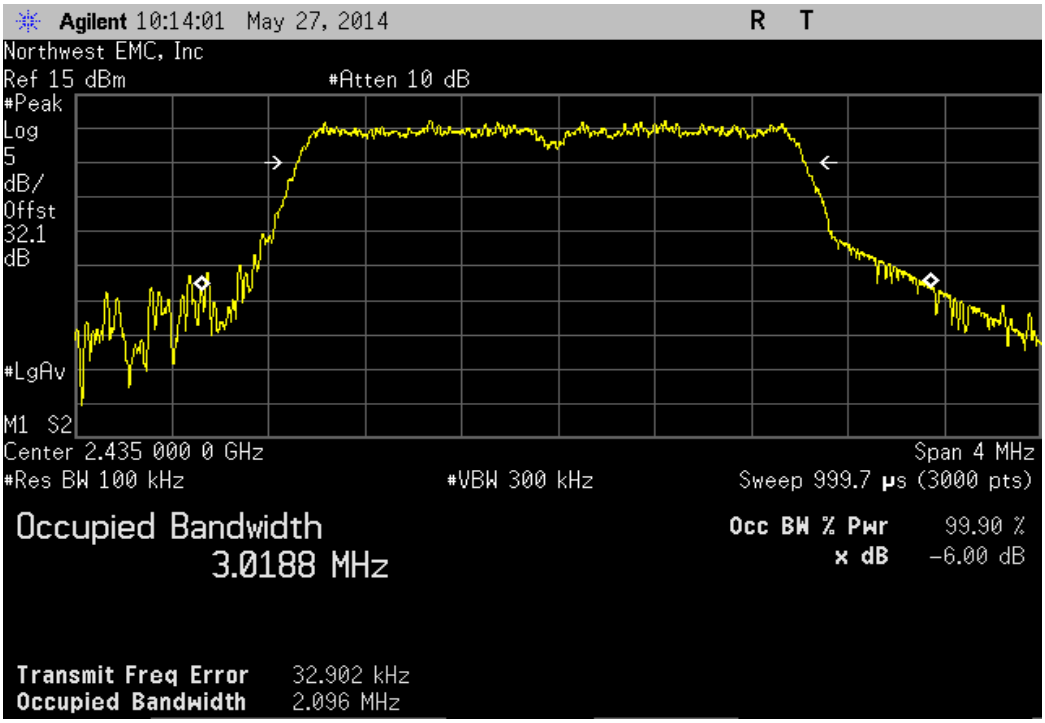
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4., Low Channel 2403 MHz

				Value	Limit	Result
				2.095 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4., Mid Channel 2435 MHz

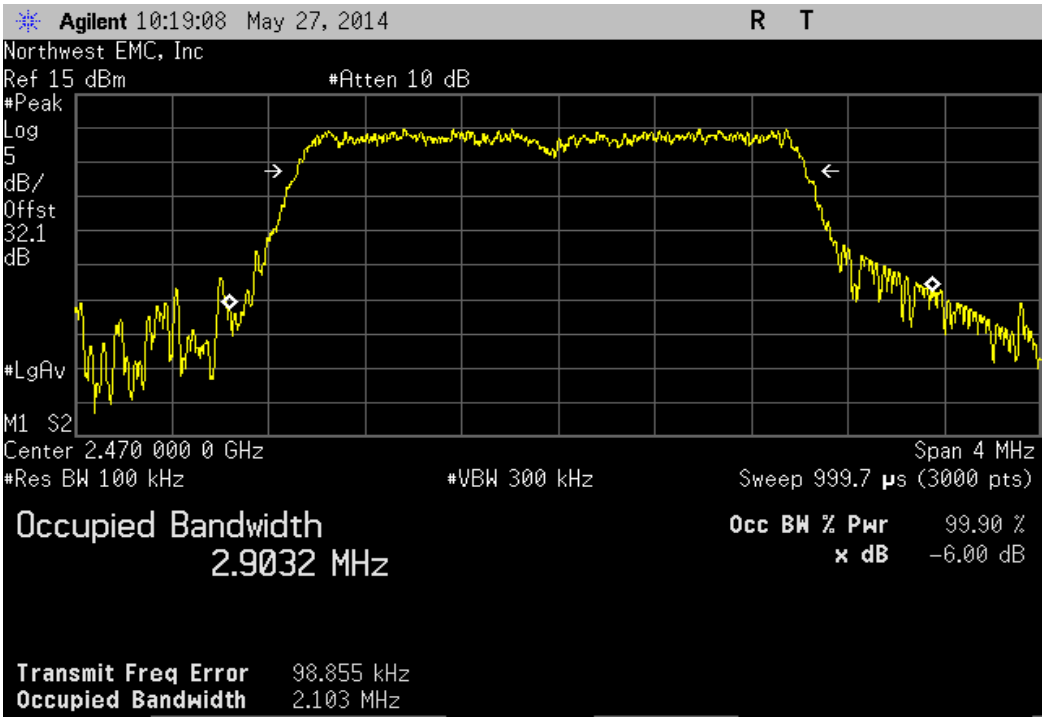
				Value	Limit	Result
				2.096 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

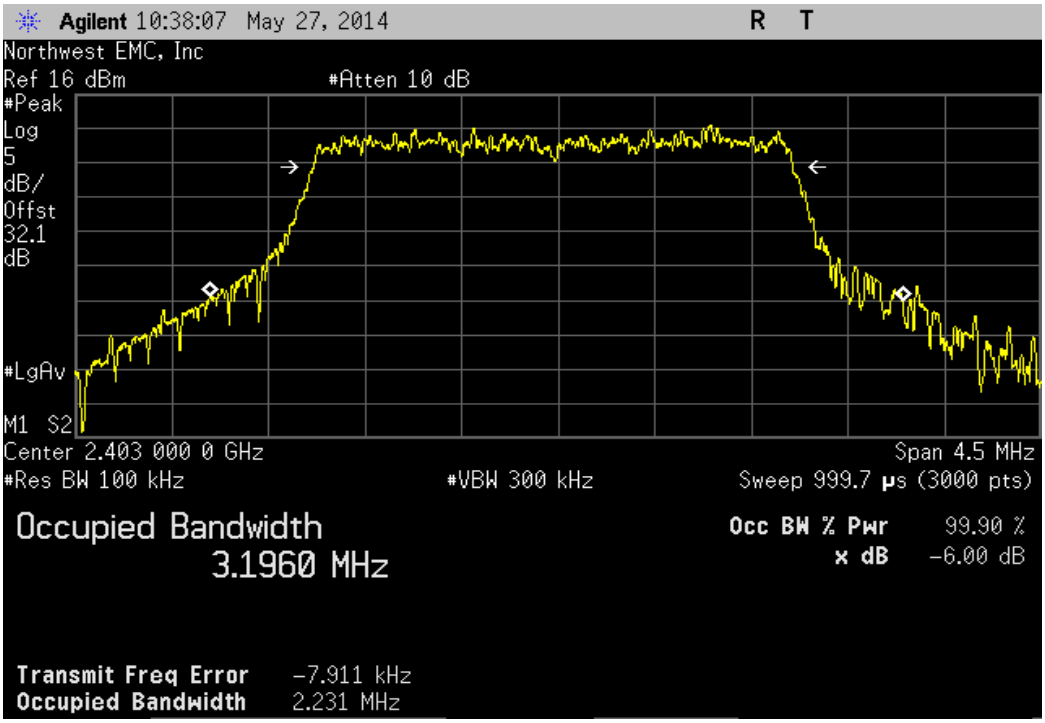
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4., High Channel 2470 MHz

				Value	Limit	Result
				2.103 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2. , Low Channel 2403 MHz

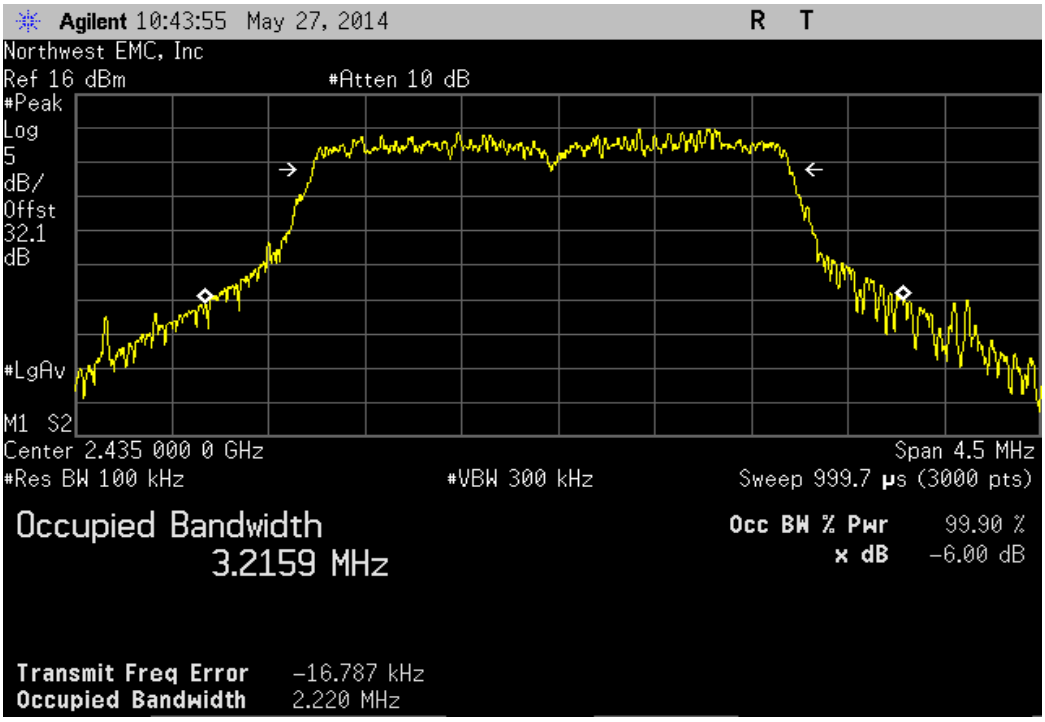
				Value	Limit	Result
				2.231 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

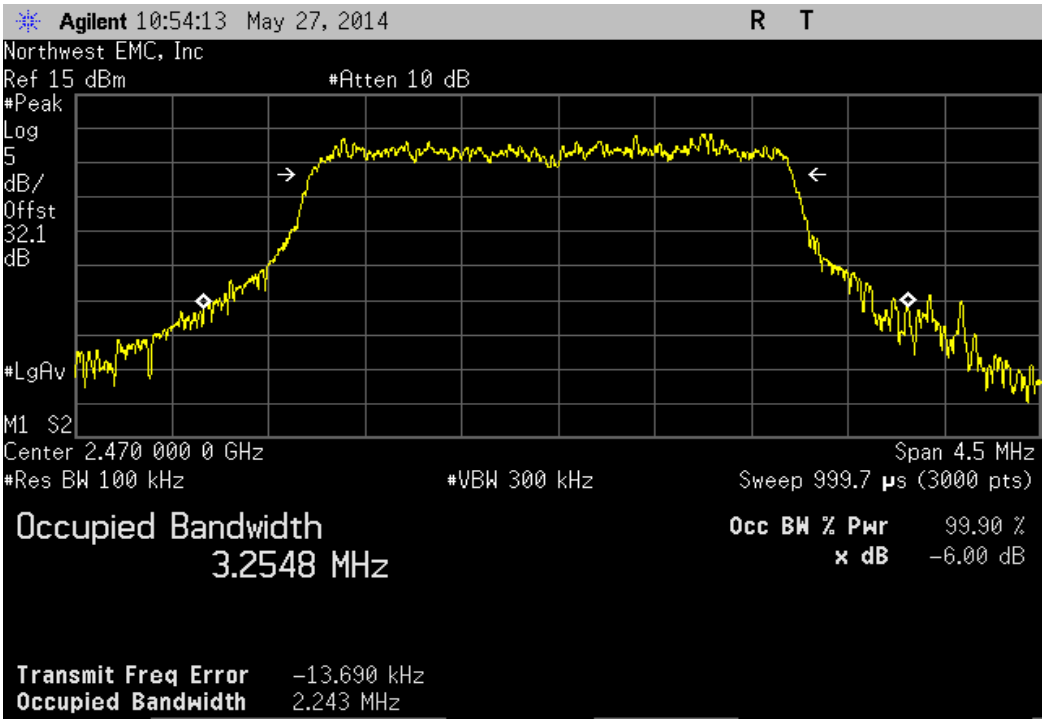
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2. , Mid Channel 2435 MHz

				Value	Limit	Result
				2.22 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2. , High Channel 2470 MHz

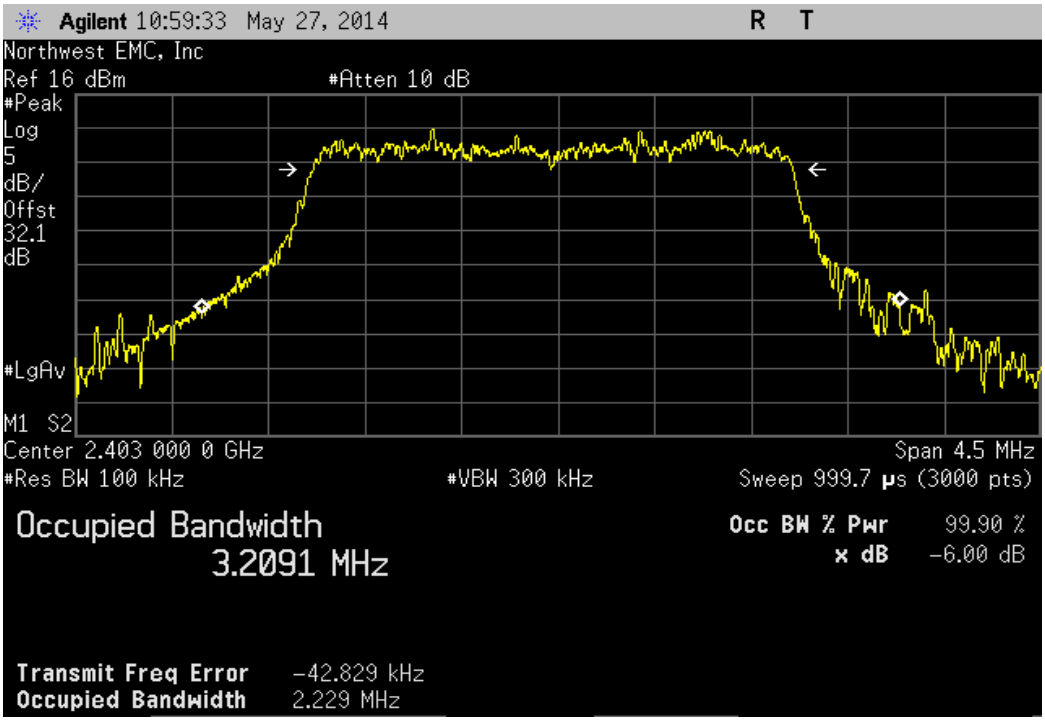
				Value	Limit	Result
				2.243 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

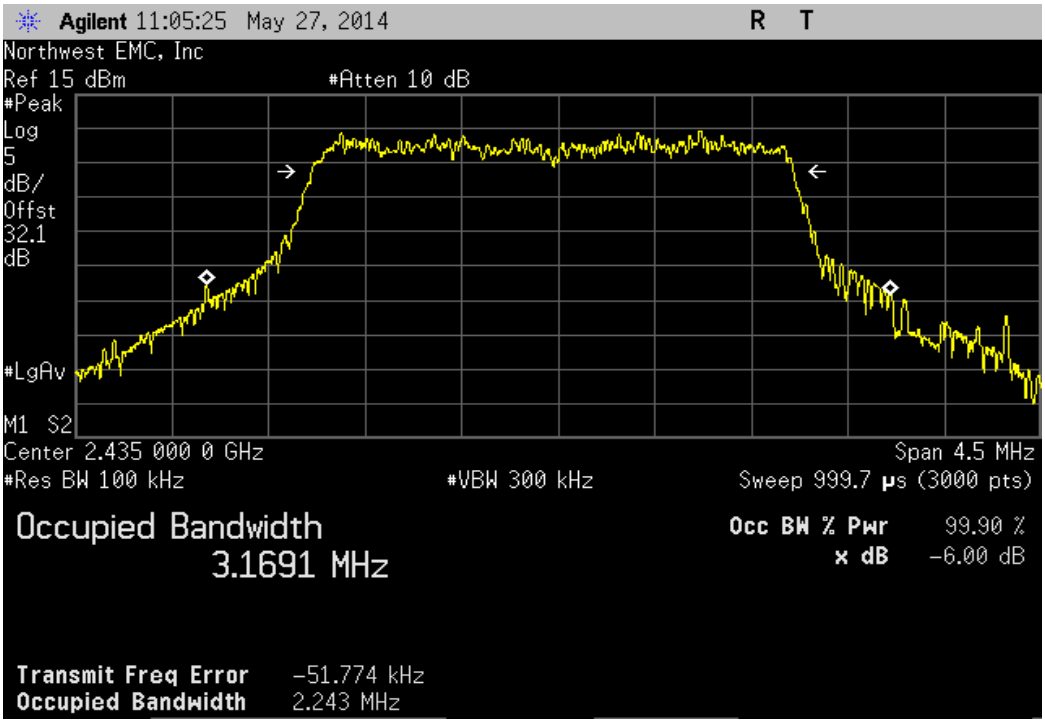
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2403 MHz

				Value	Limit	Result
				2.229 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2435 MHz

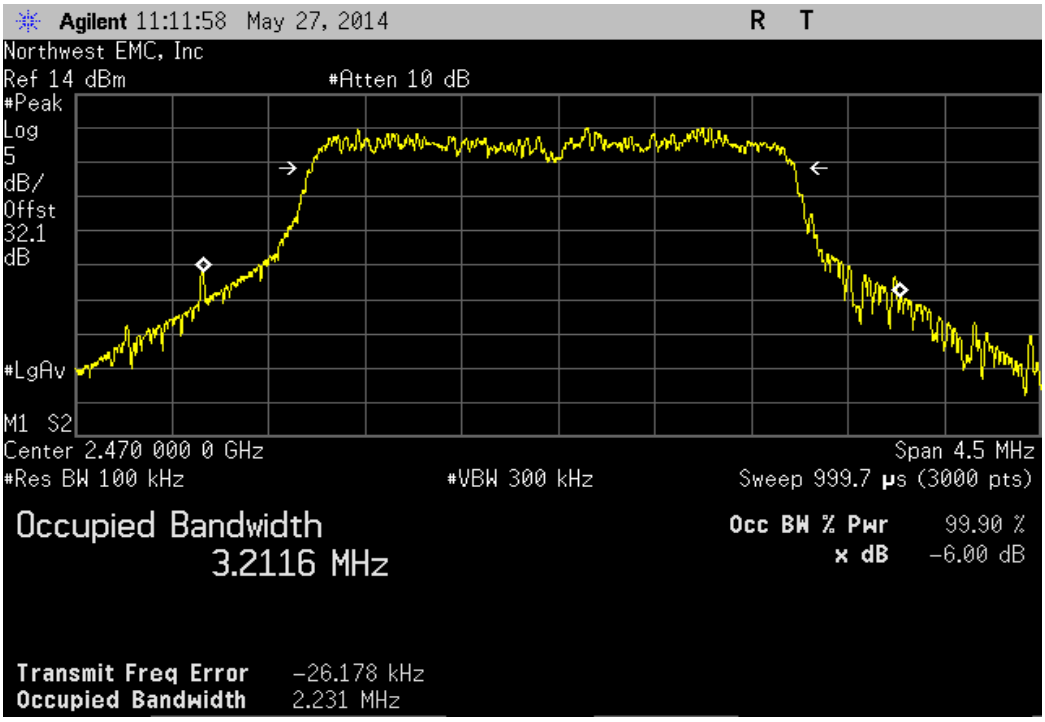
				Value	Limit	Result
				2.243 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

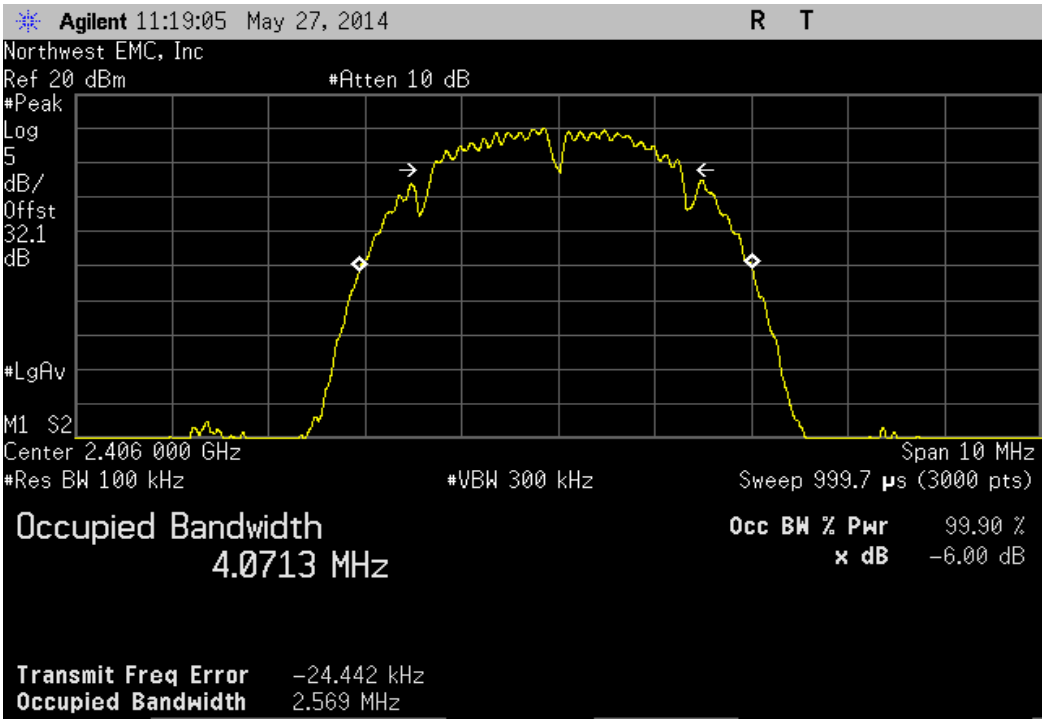
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2470 MHz

				Value	Limit	Result
				2.231 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, DBPSK., Low Channel 2406 MHz

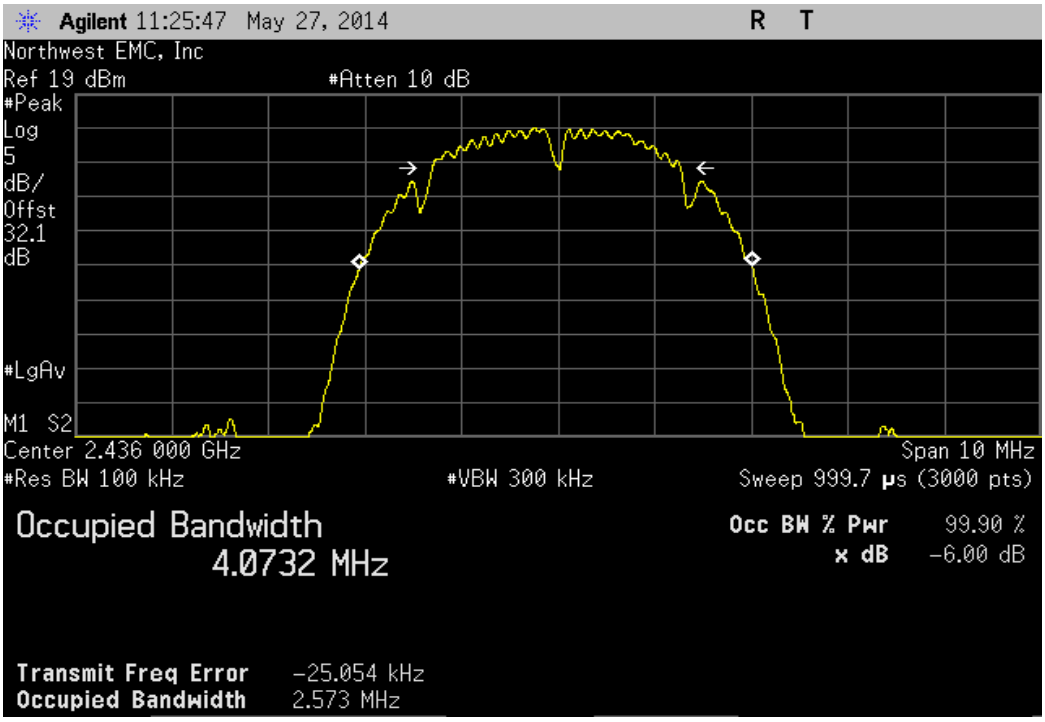
				Value	Limit	Result
				2.569 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

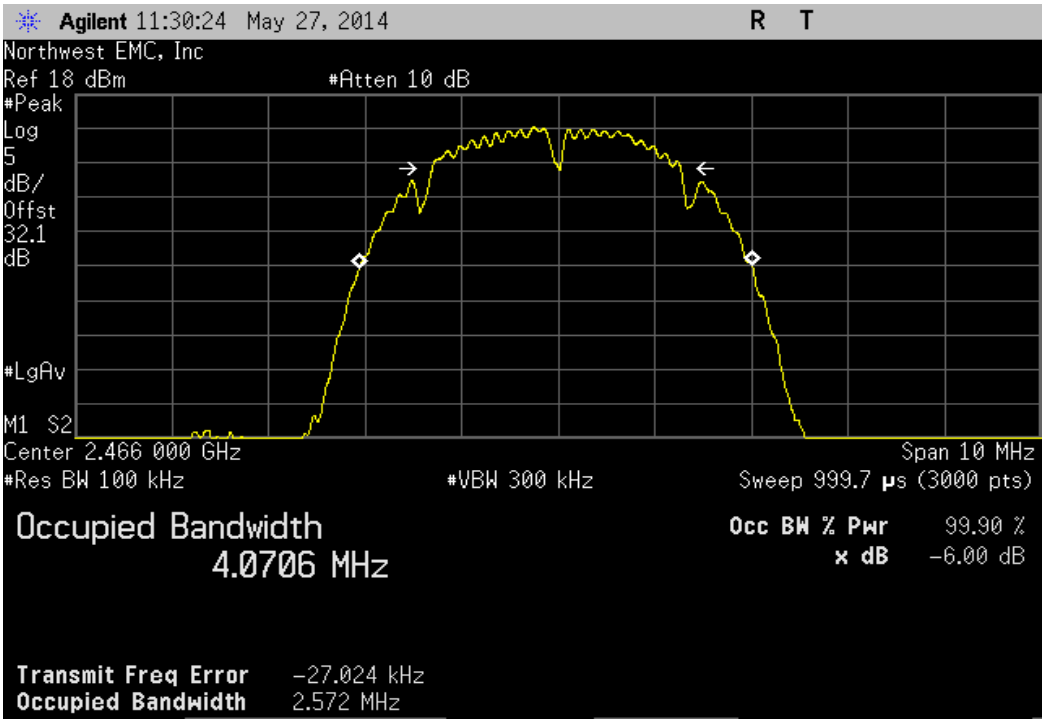
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, DBPSK., Mid Channel 2436 MHz

				Value	Limit	Result
				2.573 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, DBPSK., High Channel 2466 MHz

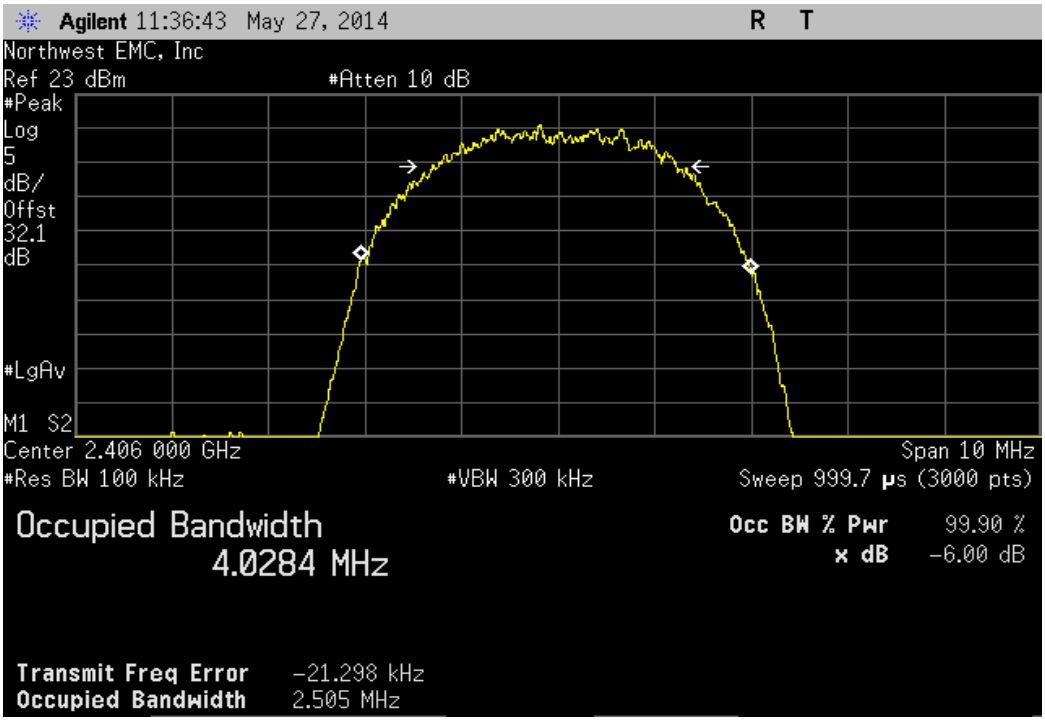
				Value	Limit	Result
				2.572 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

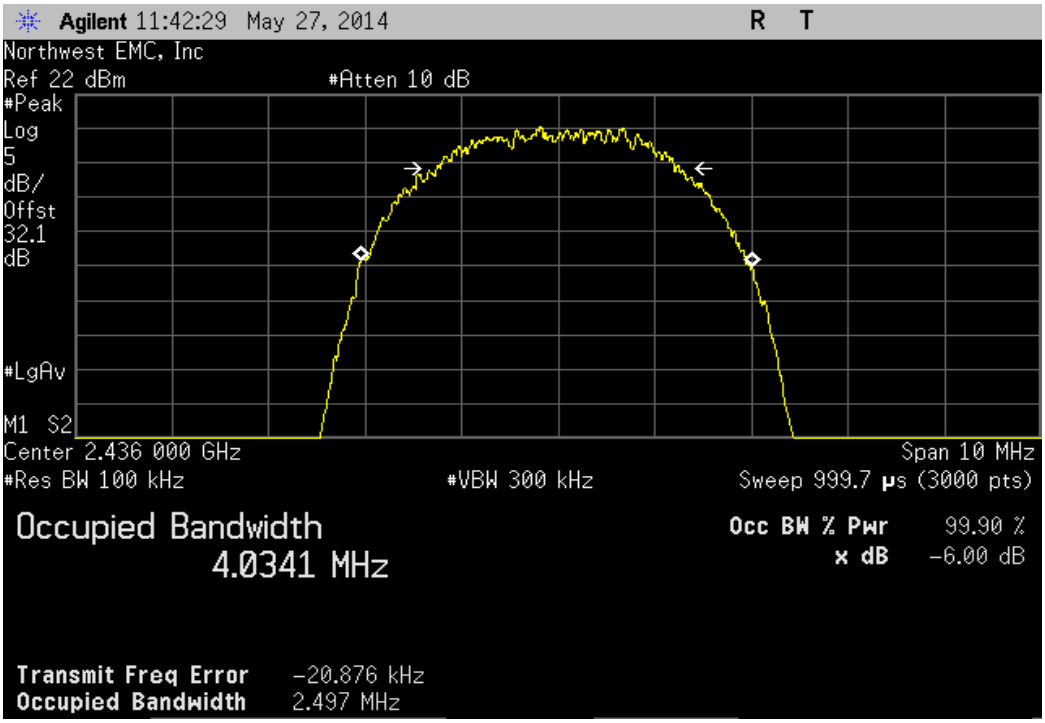
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, QPSK., Low Channel 2406 MHz

				Value	Limit	Result
				2.505 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, QPSK., Mid Channel 2436 MHz

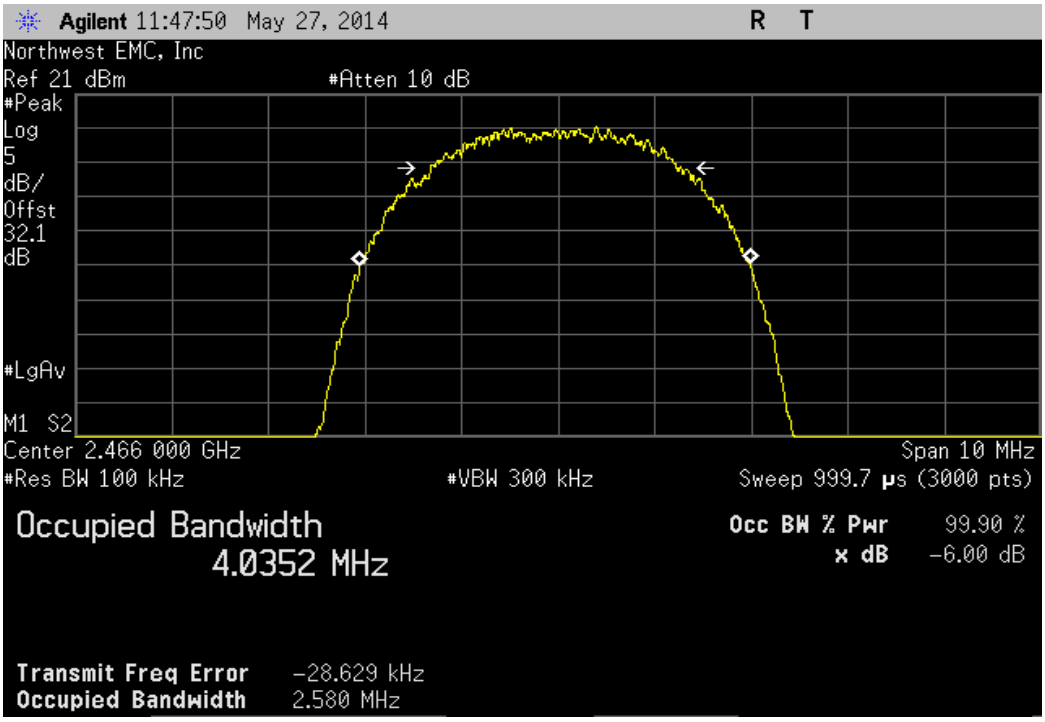
				Value	Limit	Result
				2.497 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

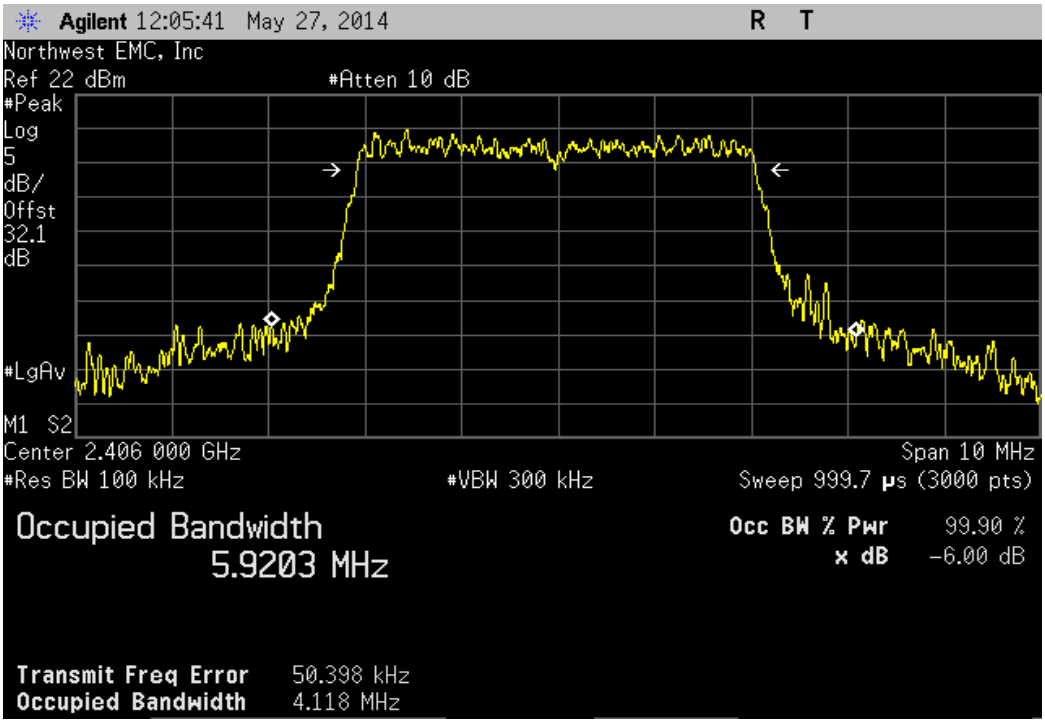
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, QPSK., High Channel 2466 MHz

				Value	Limit	Result
				2.58 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 2406 MHz

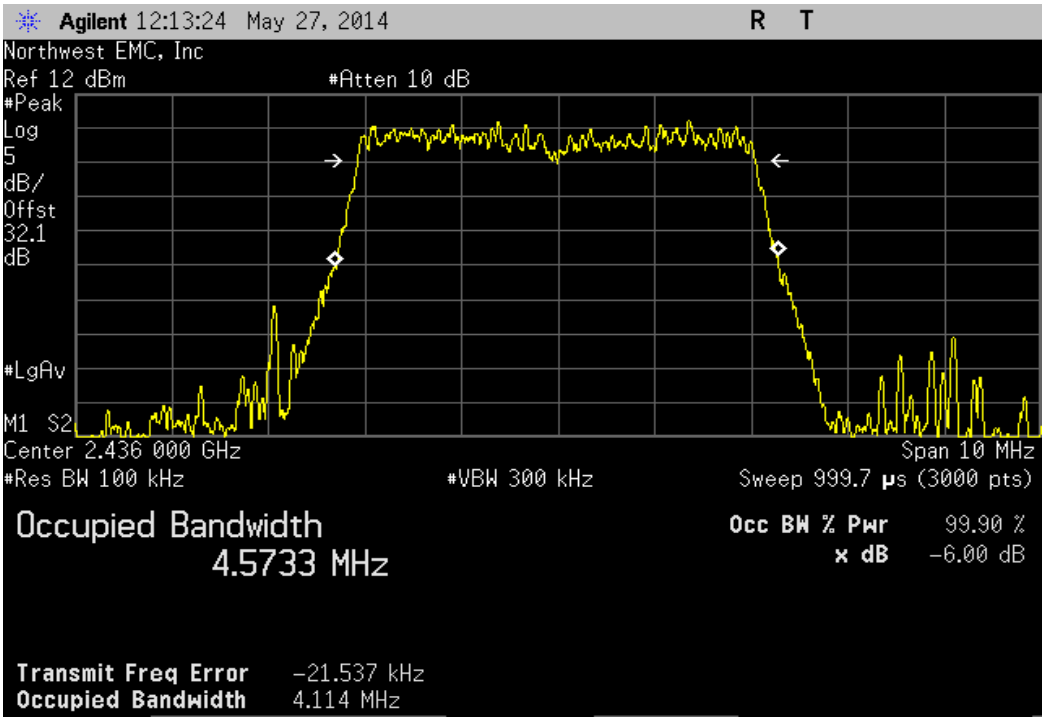
				Value	Limit	Result
				4.118 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

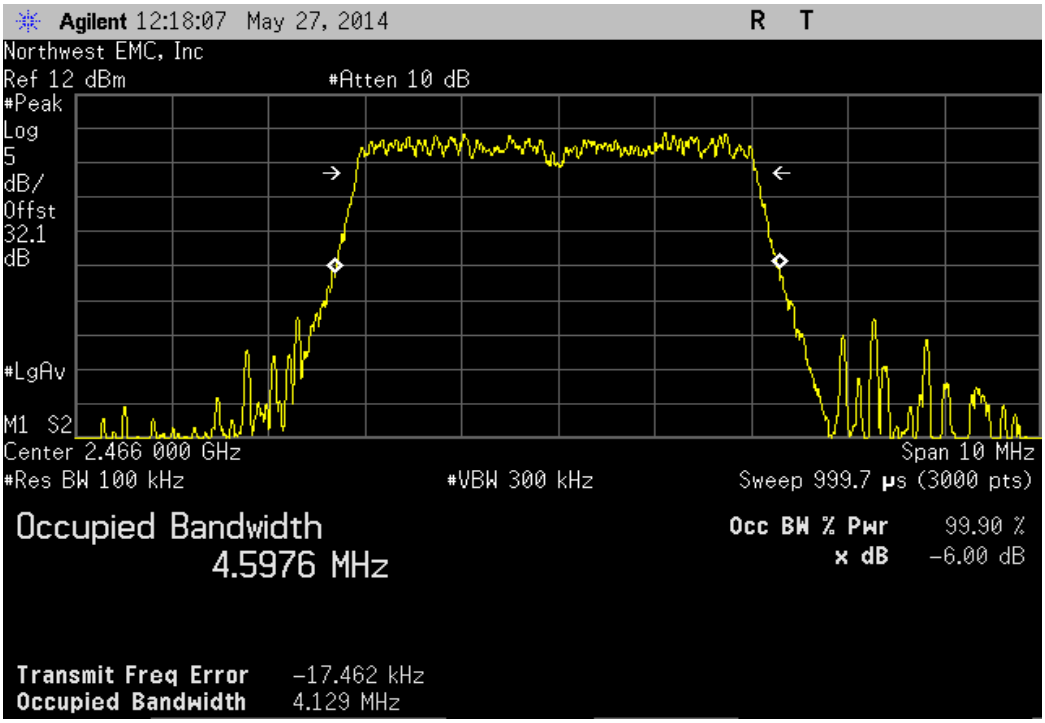
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Mid Channel 2436 MHz

				Value	Limit	Result
				4.114 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, High Channel 2466 MHz

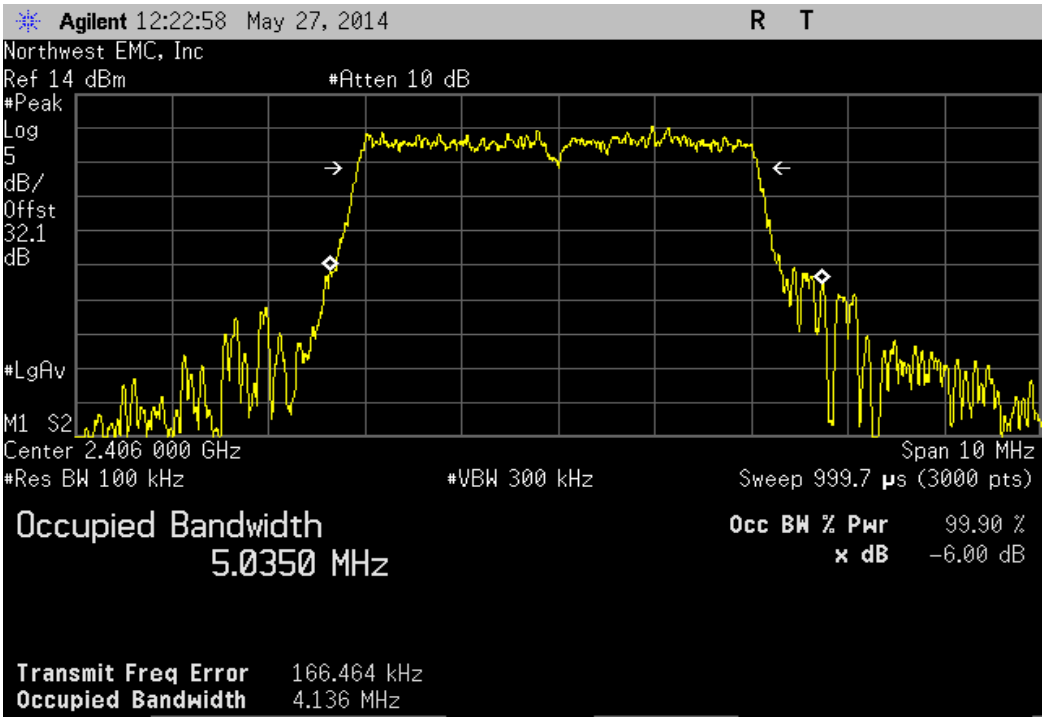
				Value	Limit	Result
				4.129 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

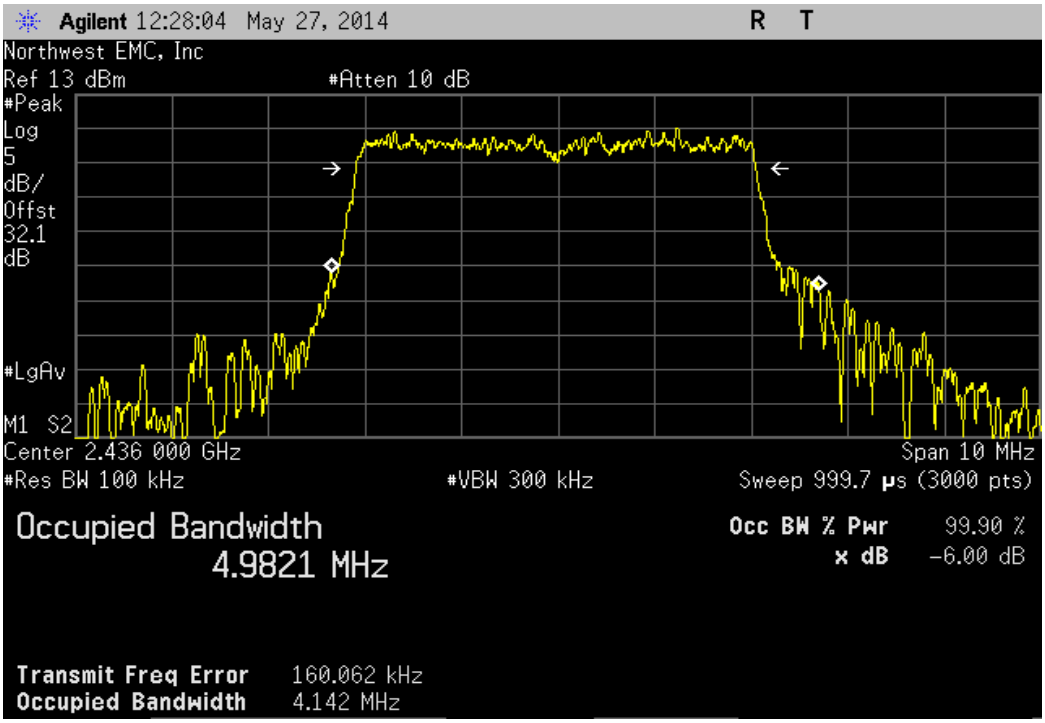
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4., Low Channel 2406 MHz

				Value	Limit	Result
				4.136 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4., Mid Channel 2436 MHz

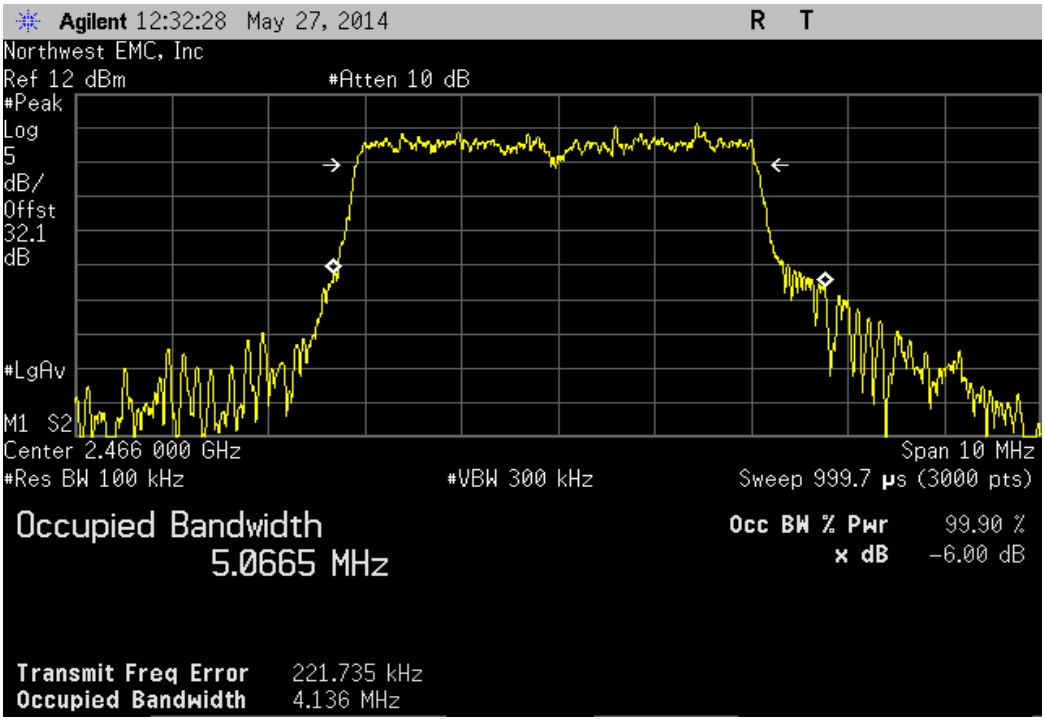
				Value	Limit	Result
				4.142 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

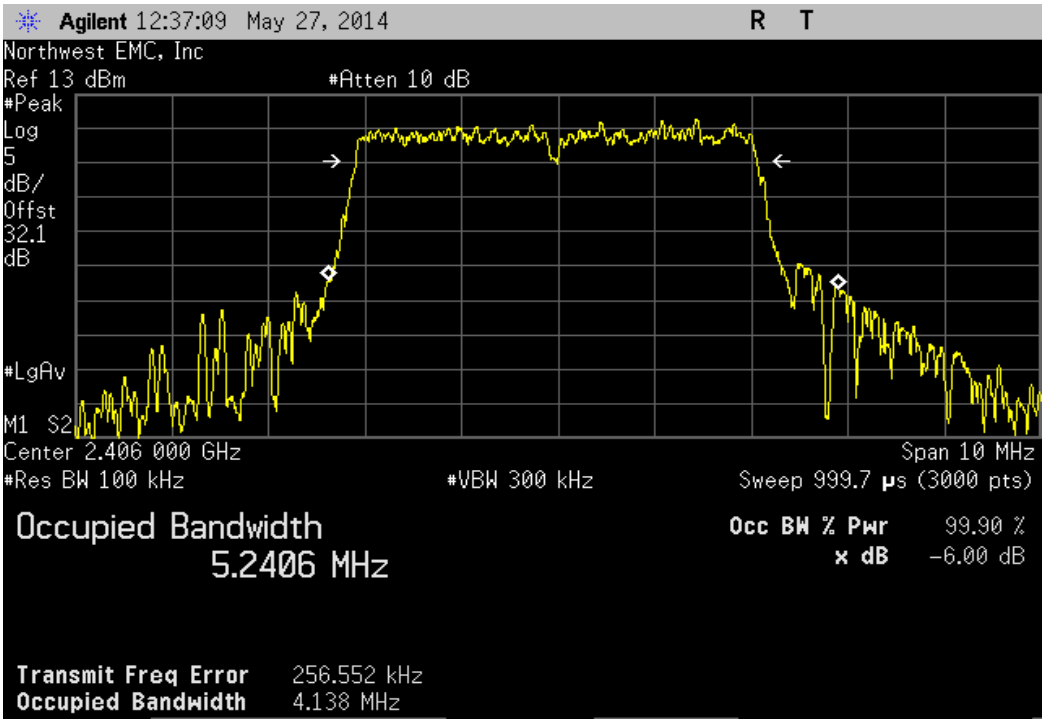
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4., High Channel 2466 MHz

				Value	Limit	Result
				4.136 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4., Low Channel 2406 MHz

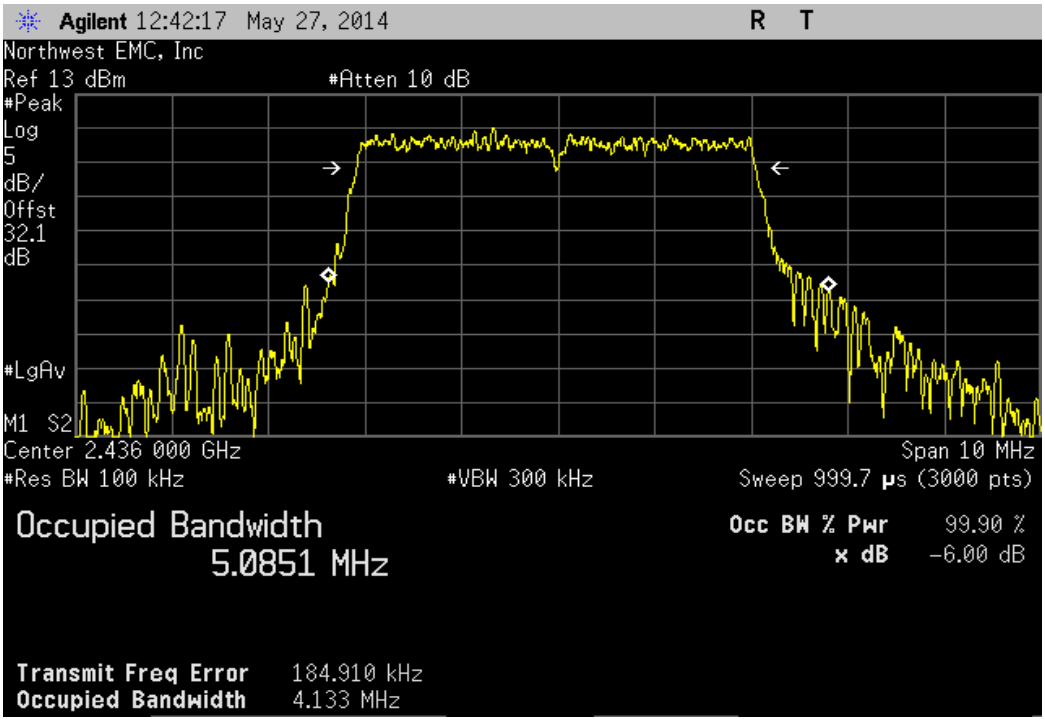
				Value	Limit	Result
				4.138 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

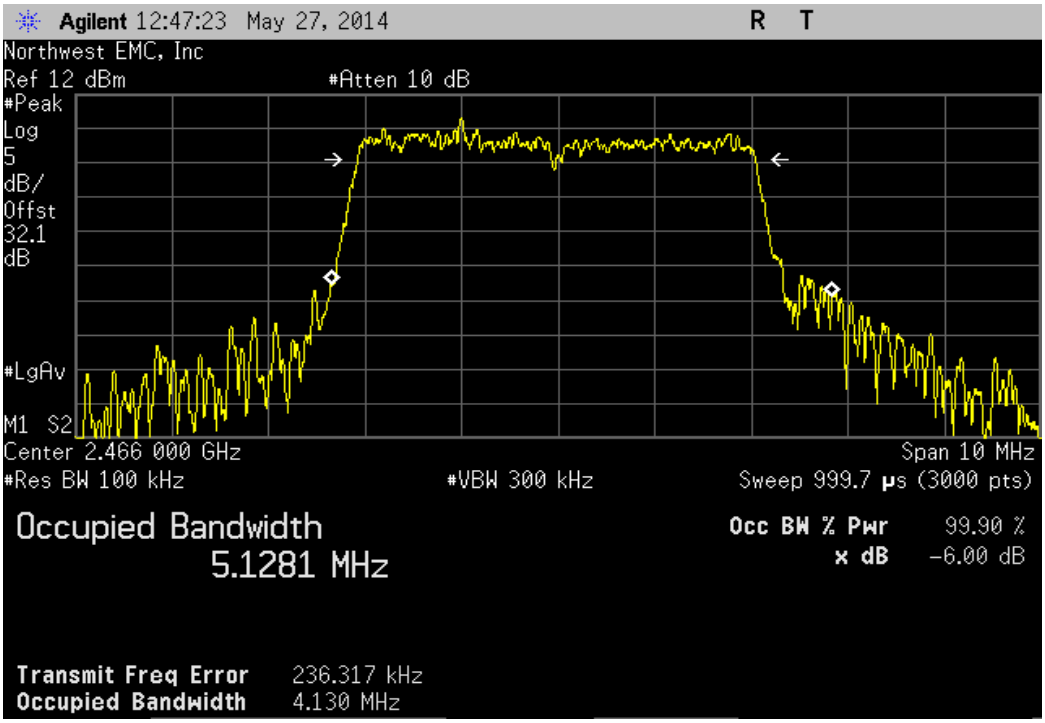
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4., Mid Channel 2436 MHz

				Value	Limit	Result
				4.133 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4., High Channel 2466 MHz

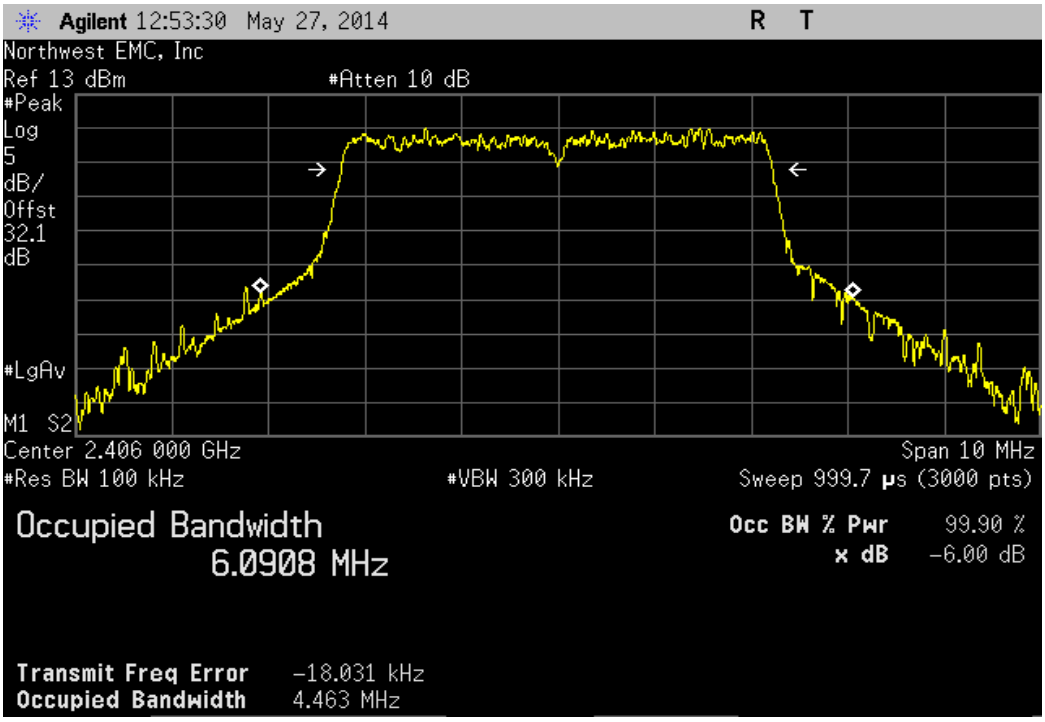
				Value	Limit	Result
				4.13 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

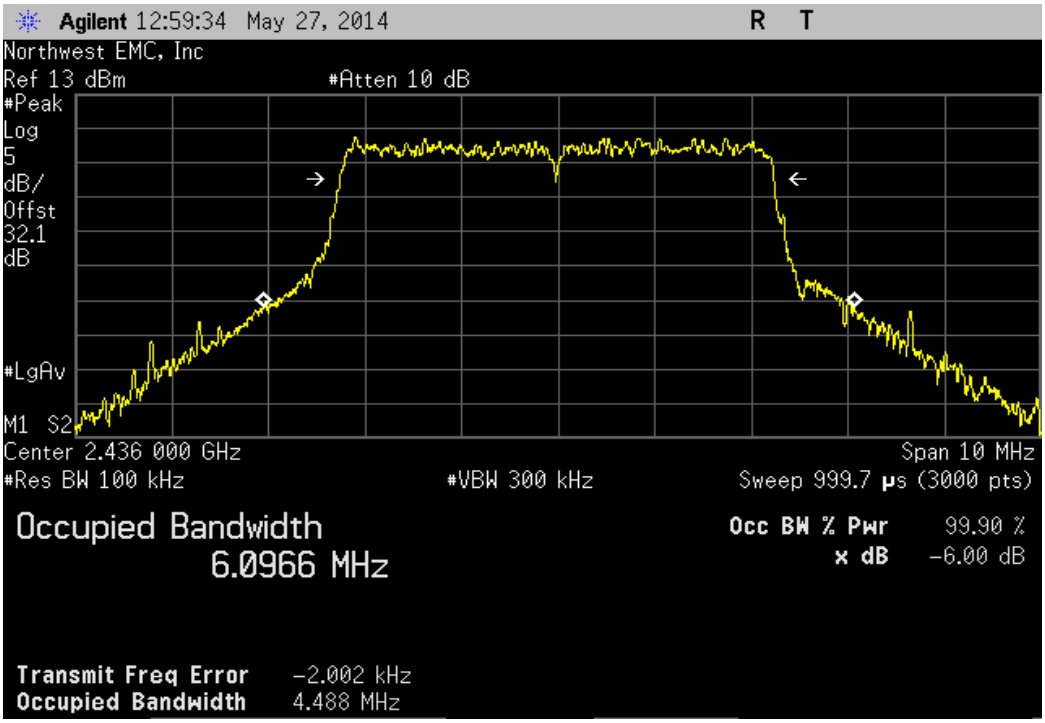
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2. , Low Channel 2406 MHz

				Value	Limit	Result
				4.463 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2. , Mid Channel 2436 MHz

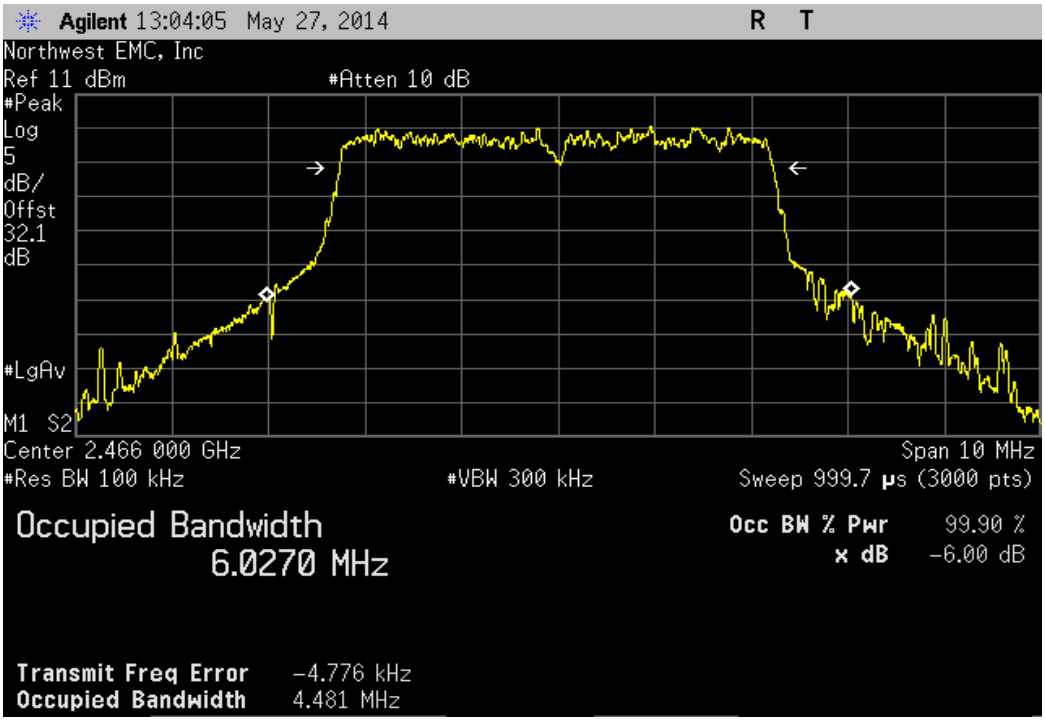
				Value	Limit	Result
				4.488 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

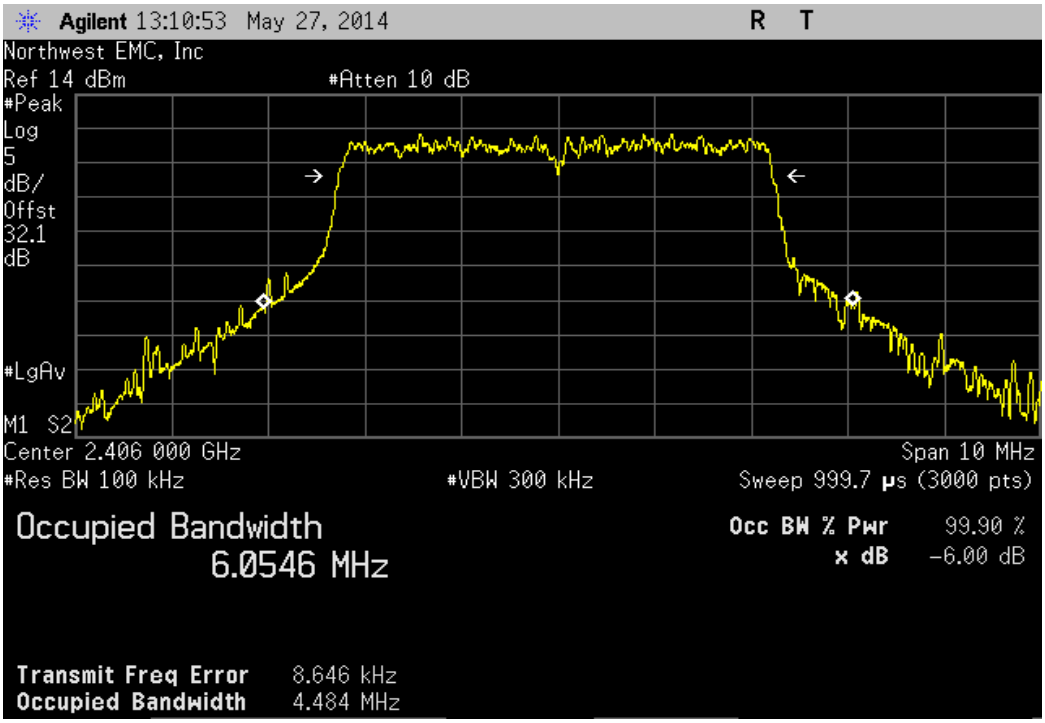
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2. , High Channel 2466 MHz

				Value	Limit	Result
				4.481 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2406 MHz

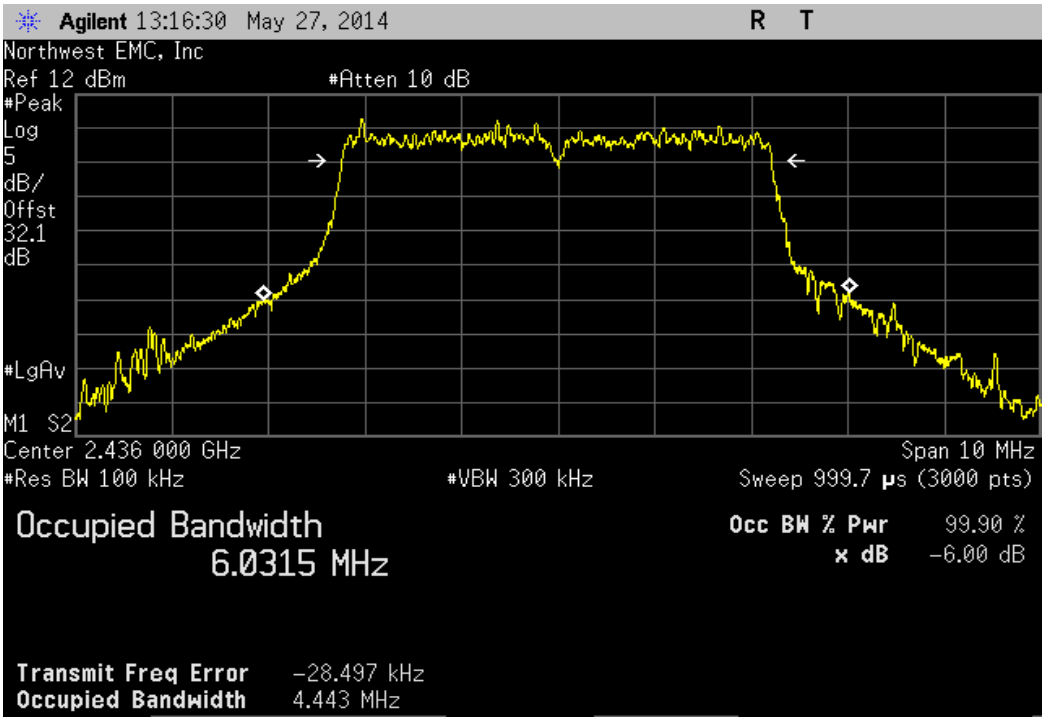
				Value	Limit	Result
				4.484 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

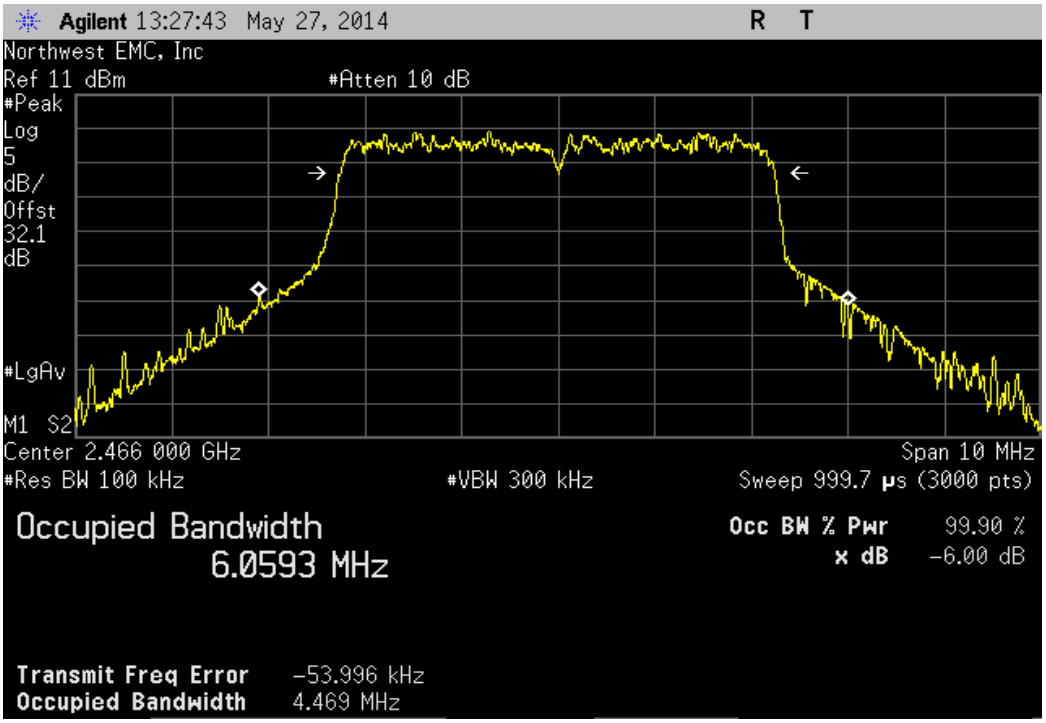
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2436 MHz

				Value	Limit	Result
				4.443 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2466 MHz

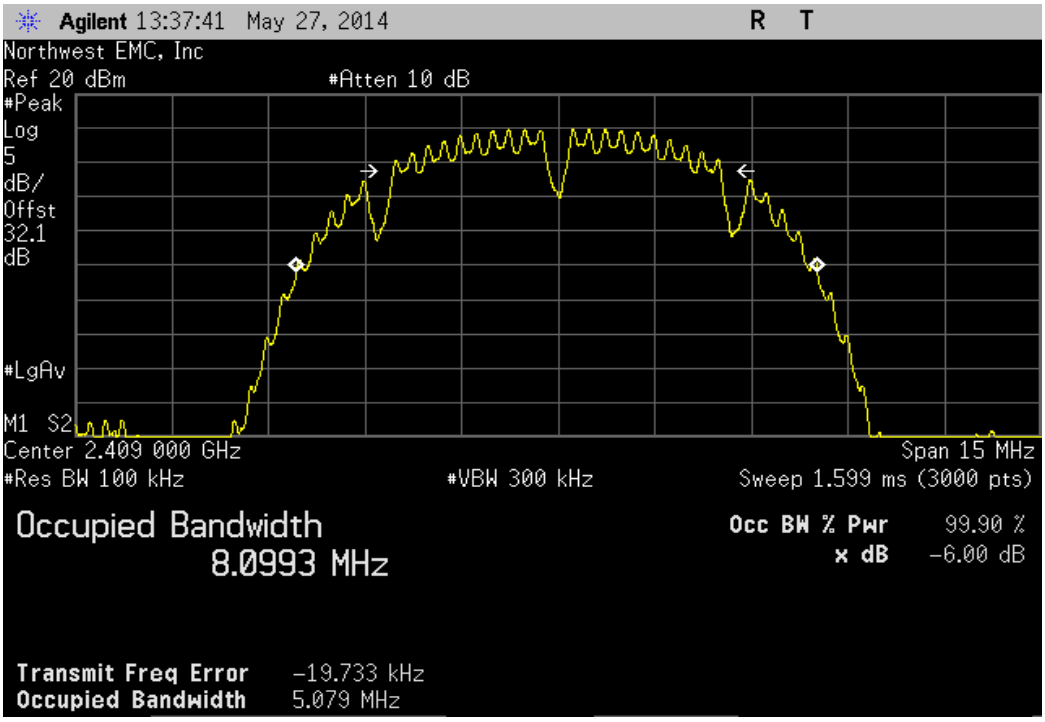
				Value	Limit	Result
				4.469 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

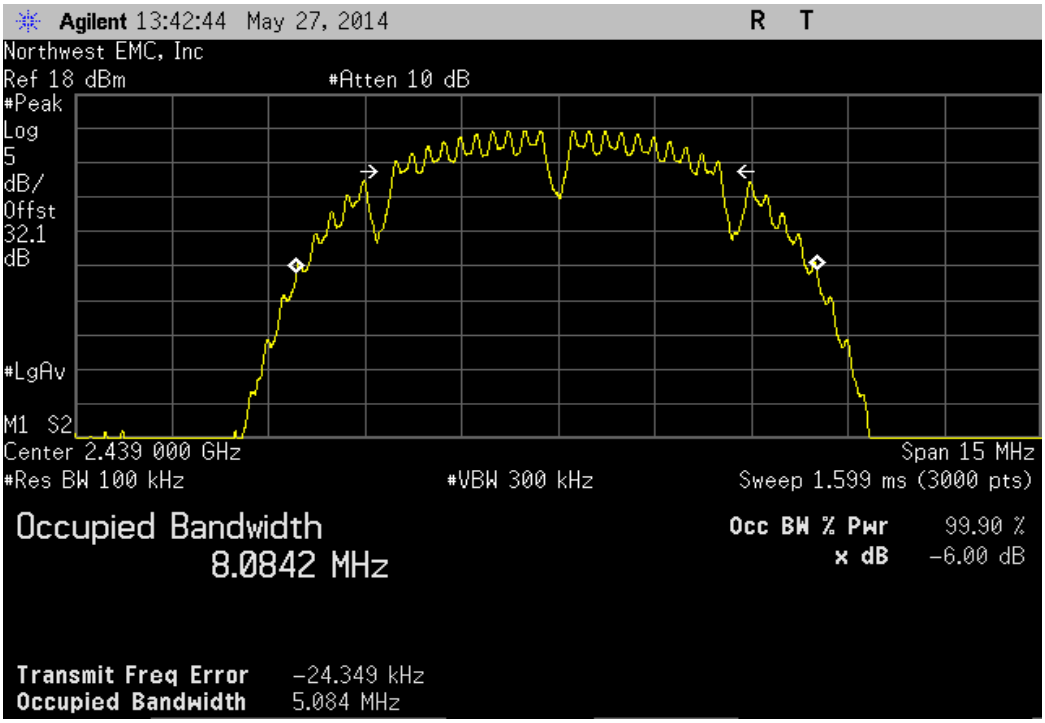
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, DBPSK., Low Channel 2409 MHz

				Value	Limit	Result
				5.079 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, DBPSK., Mid Channel 2439 MHz

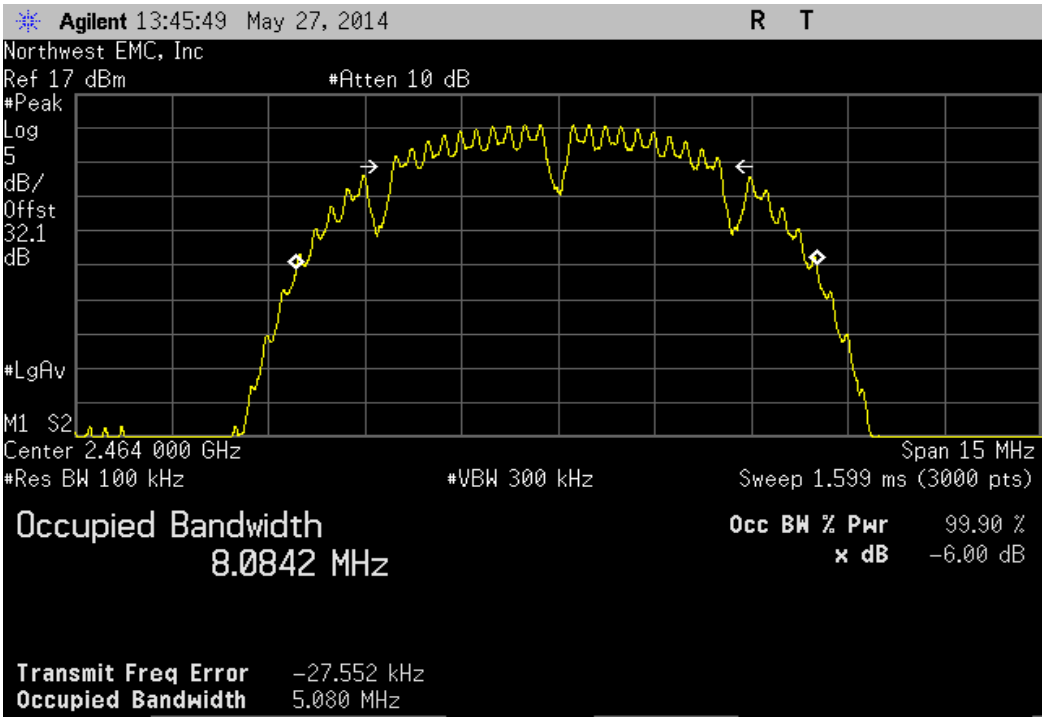
				Value	Limit	Result
				5.084 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

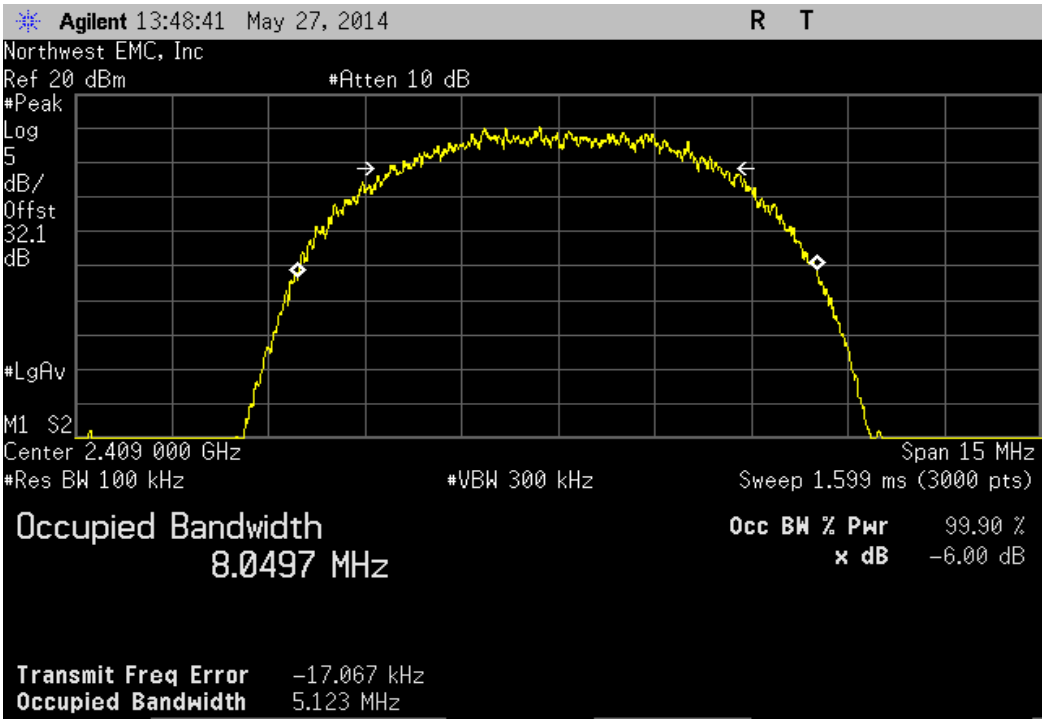
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, DBPSK., High Channel 2464 MHz

				Value	Limit	Result
				5.08 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, QPSK., Low Channel 2409 MHz

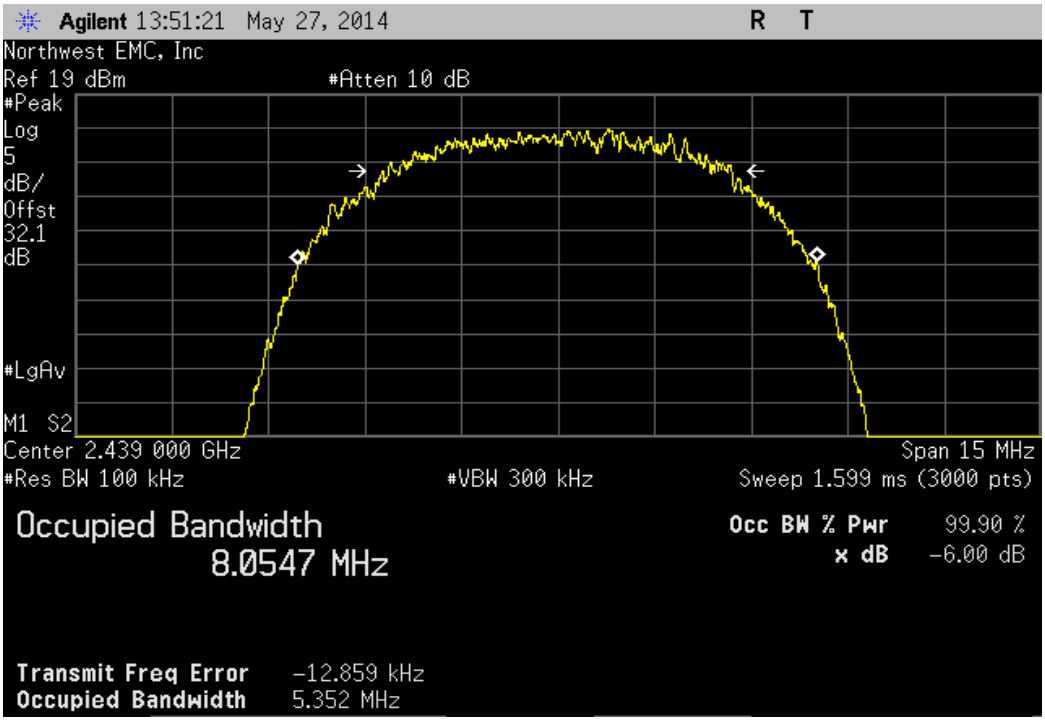
				Value	Limit	Result
				5.123 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

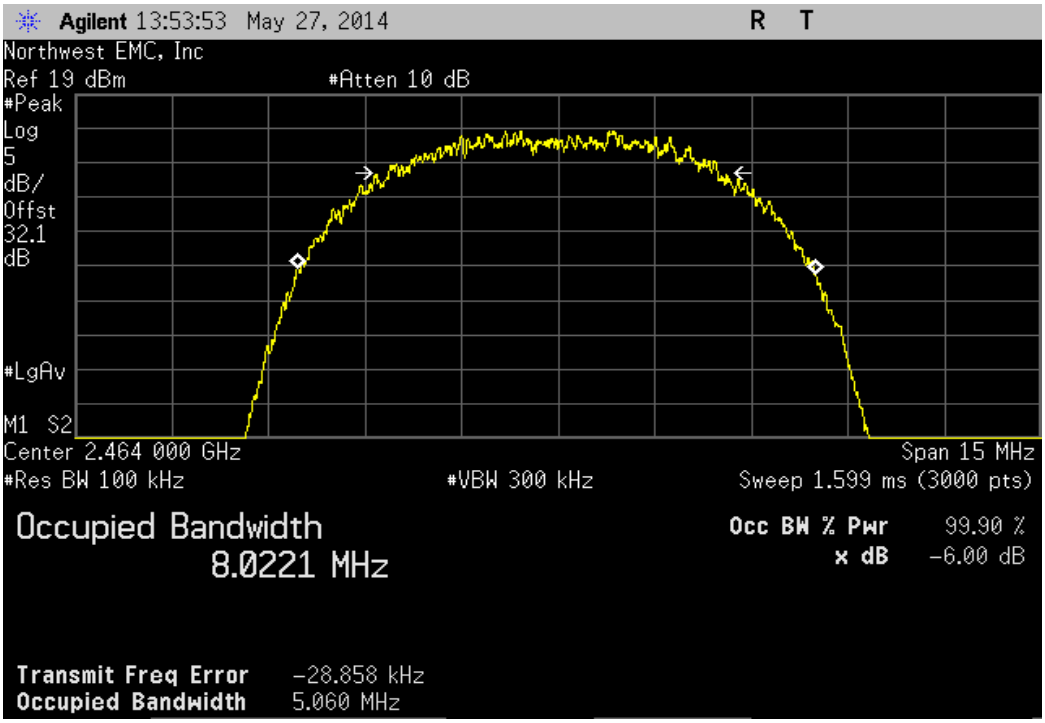
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, QPSK., Mid Channel 2439 MHz

				Value	Limit	Result
				5.352 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, QPSK., High Channel 2464 MHz

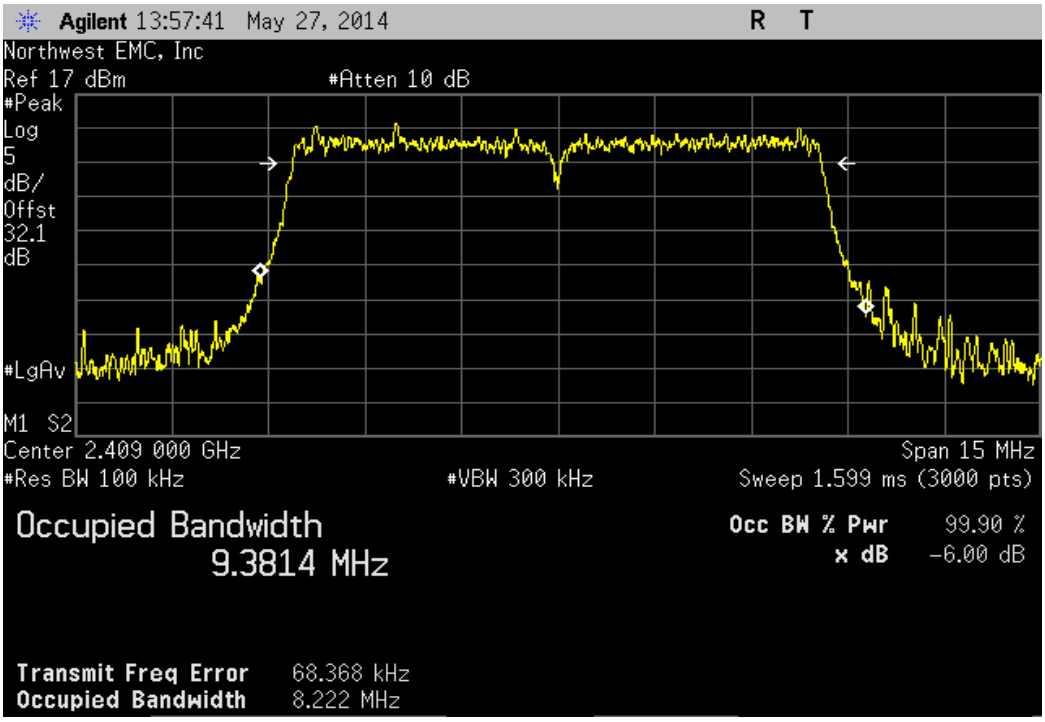
				Value	Limit	Result
				5.06 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

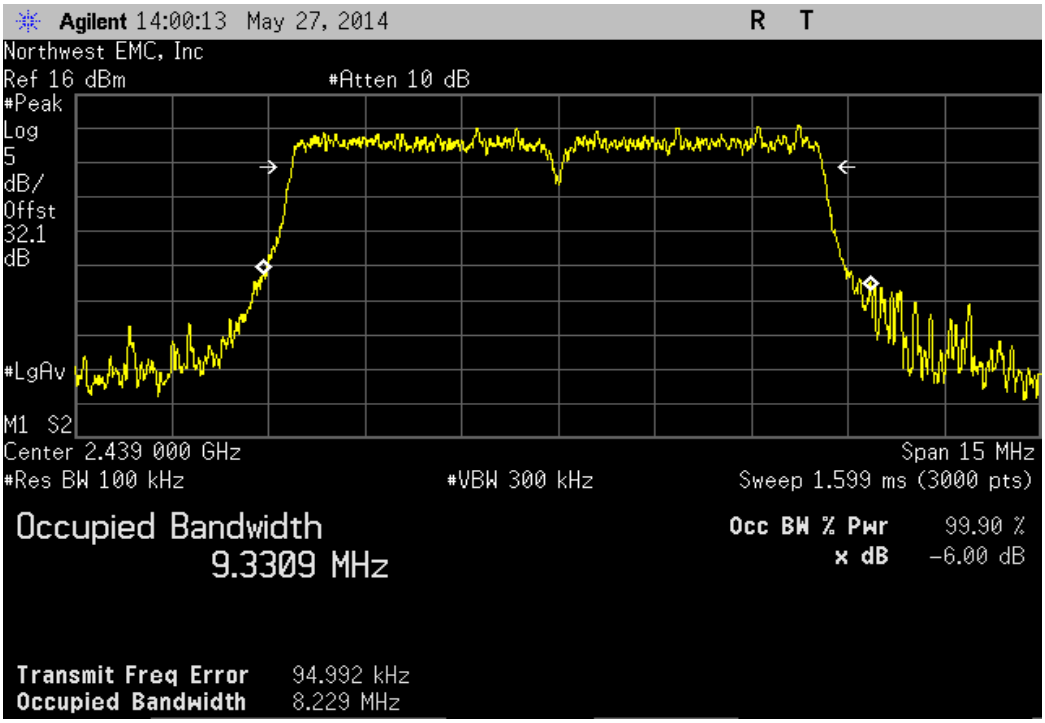
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 2409 MHz

				Value	Limit	Result
				8.222 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Mid Channel 2439 MHz

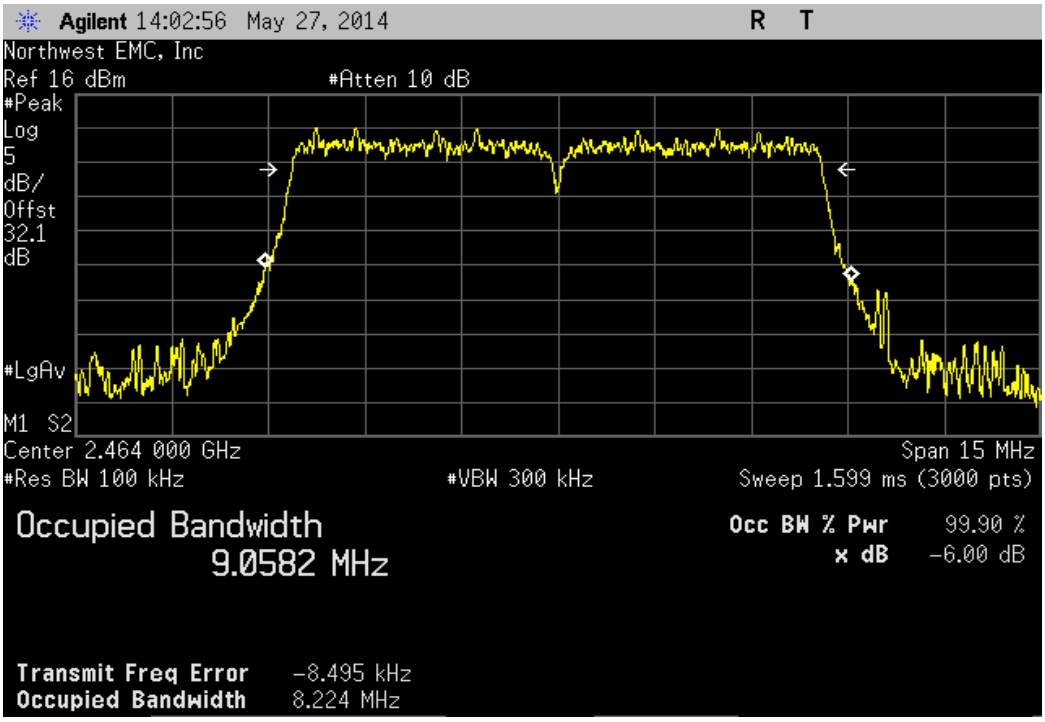
				Value	Limit	Result
				8.229 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

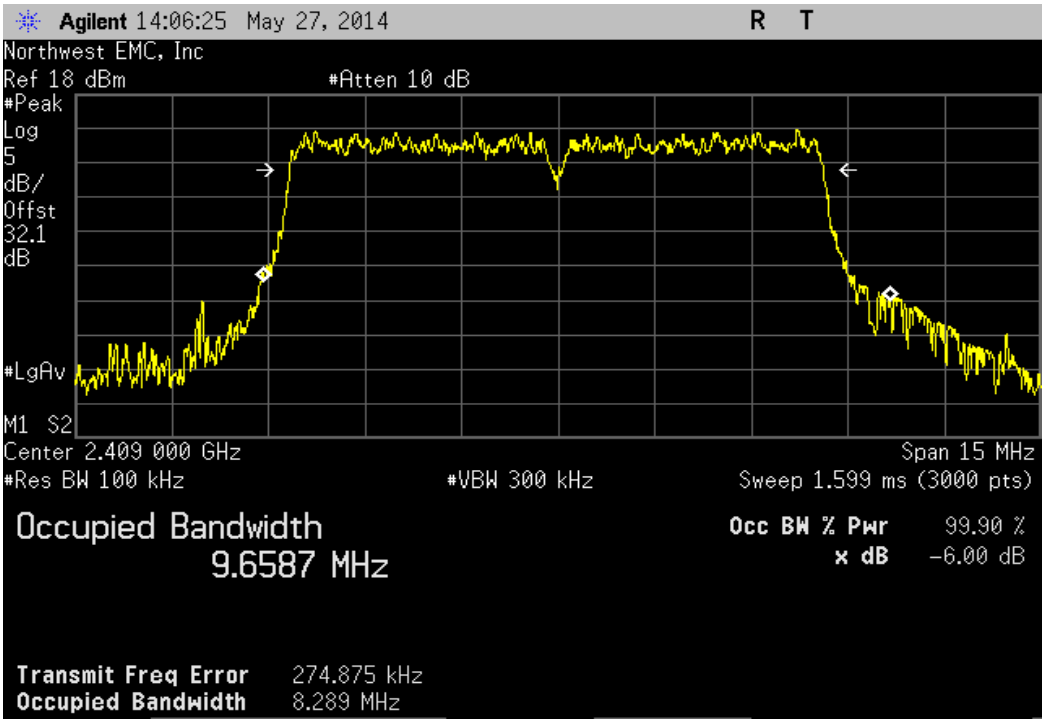
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, High Channel 2464 MHz

				Value	Limit	Result
				8.224 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4., Low Channel 2409 MHz

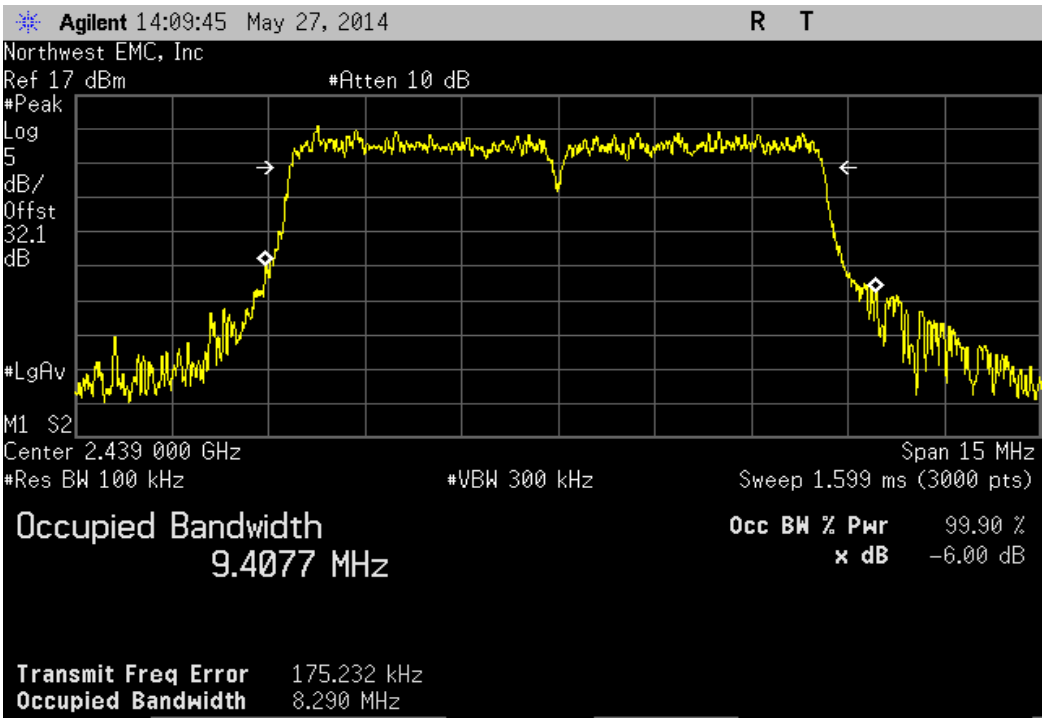
				Value	Limit	Result
				8.289 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

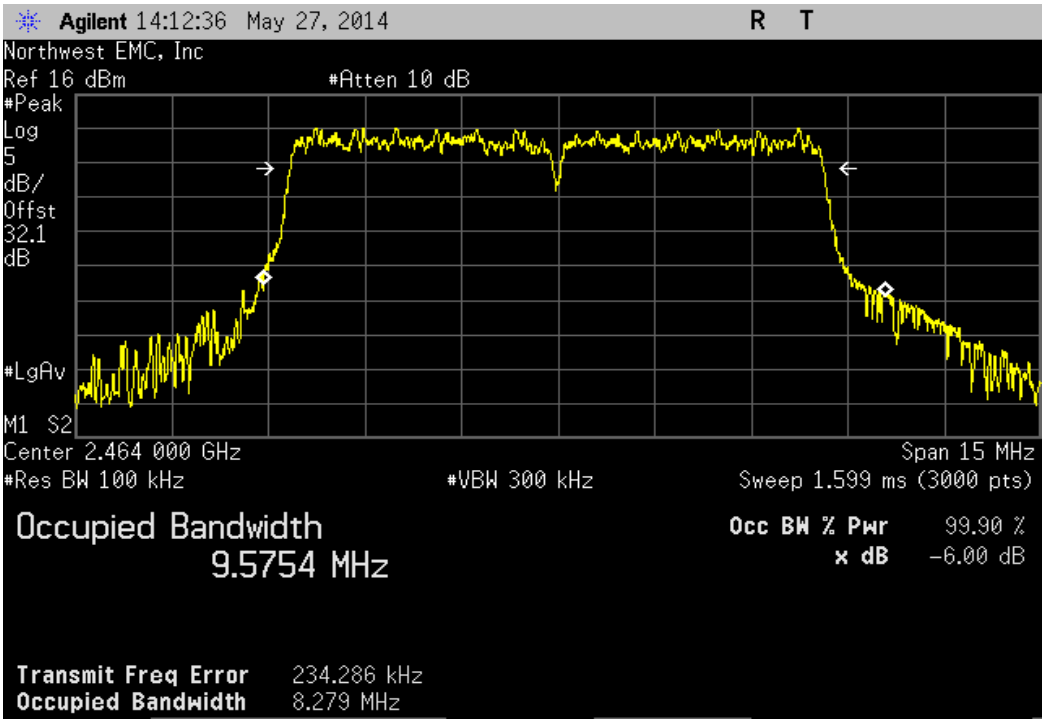
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4., Mid Channel 2439 MHz

				Value	Limit	Result
				8.29 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4., High Channel 2464 MHz

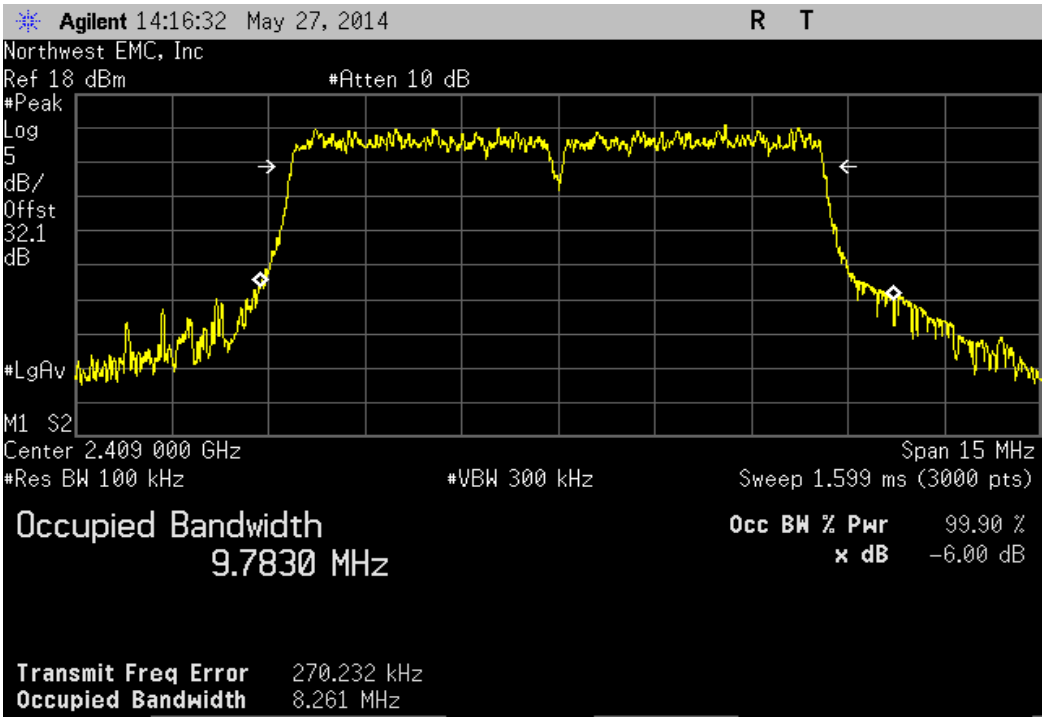
				Value	Limit	Result
				8.279 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

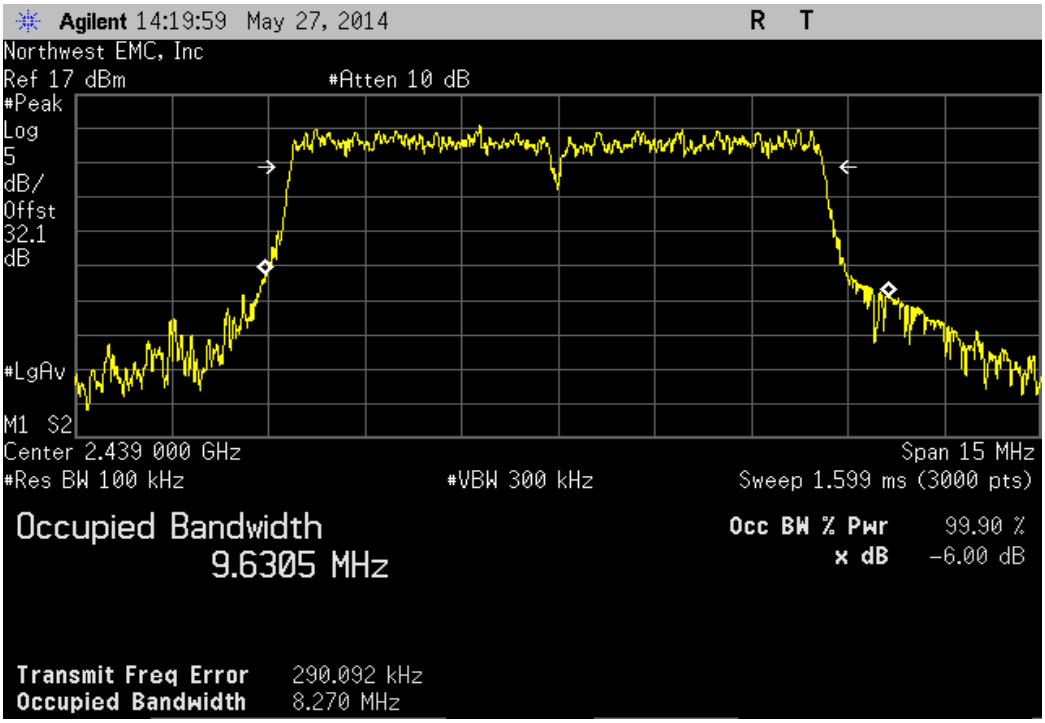
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4., Low Channel 2409 MHz

				Value	Limit	Result
				8.261 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4., Mid Channel 2439 MHz

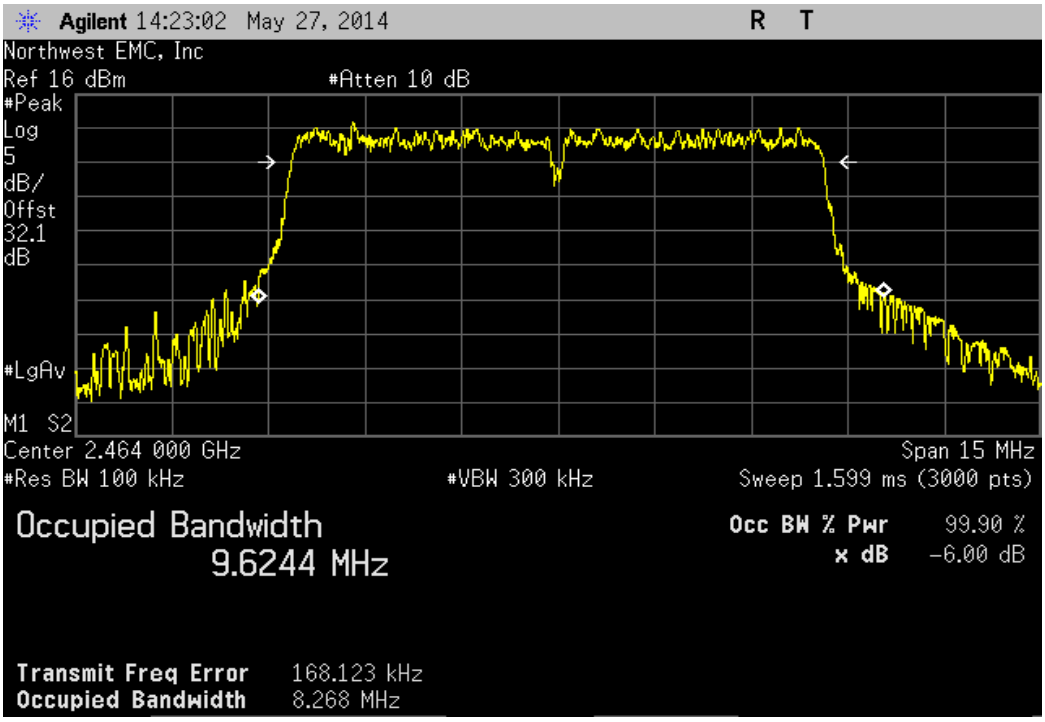
				Value	Limit	Result
				8.27 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

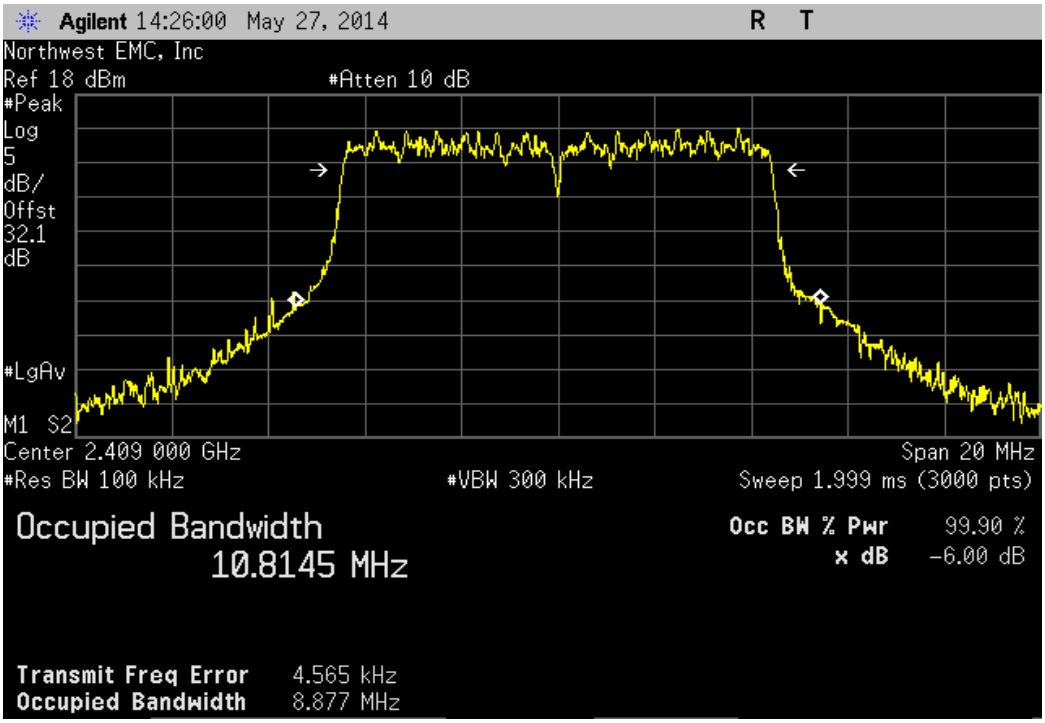
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4., High Channel 2464 MHz

				Value	Limit	Result
				8.268 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2. , Low Channel 2409 MHz

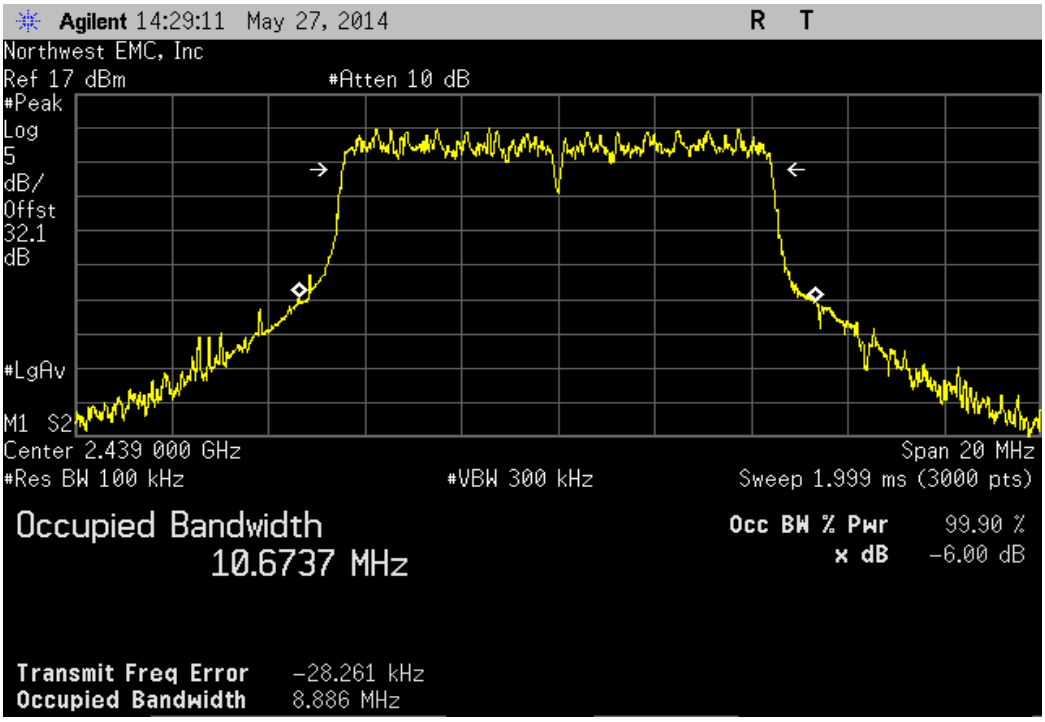
				Value	Limit	Result
				8.877 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

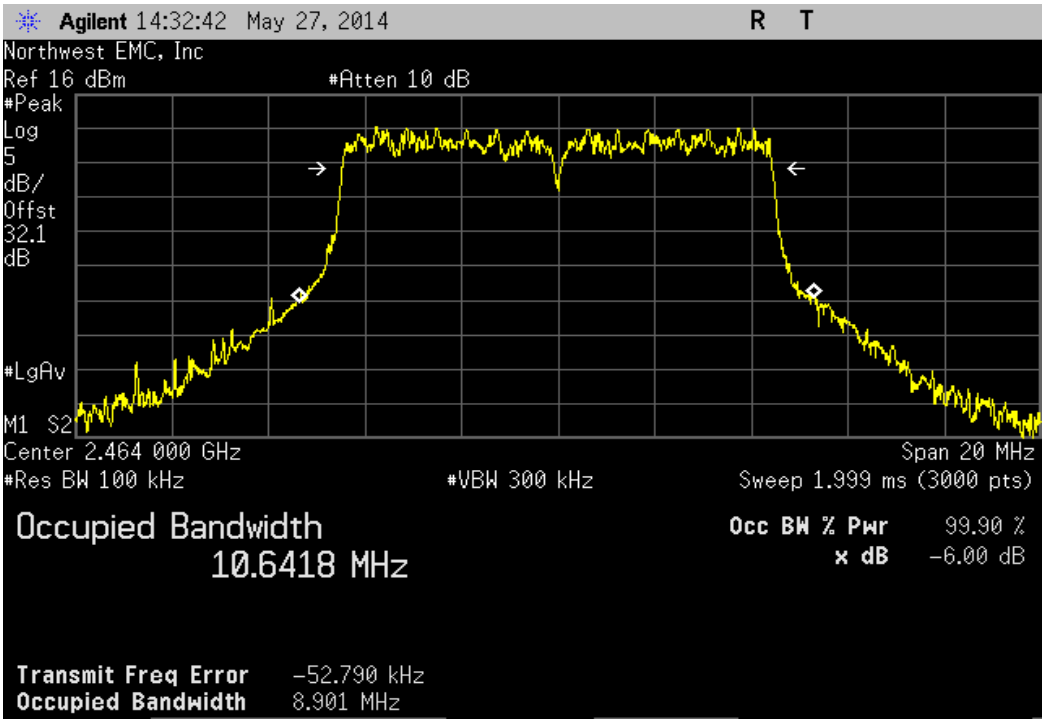
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2. , Mid Channel 2439 MHz

				Value	Limit	Result
				8.886 MHz	> 500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2. , High Channel 2464 MHz

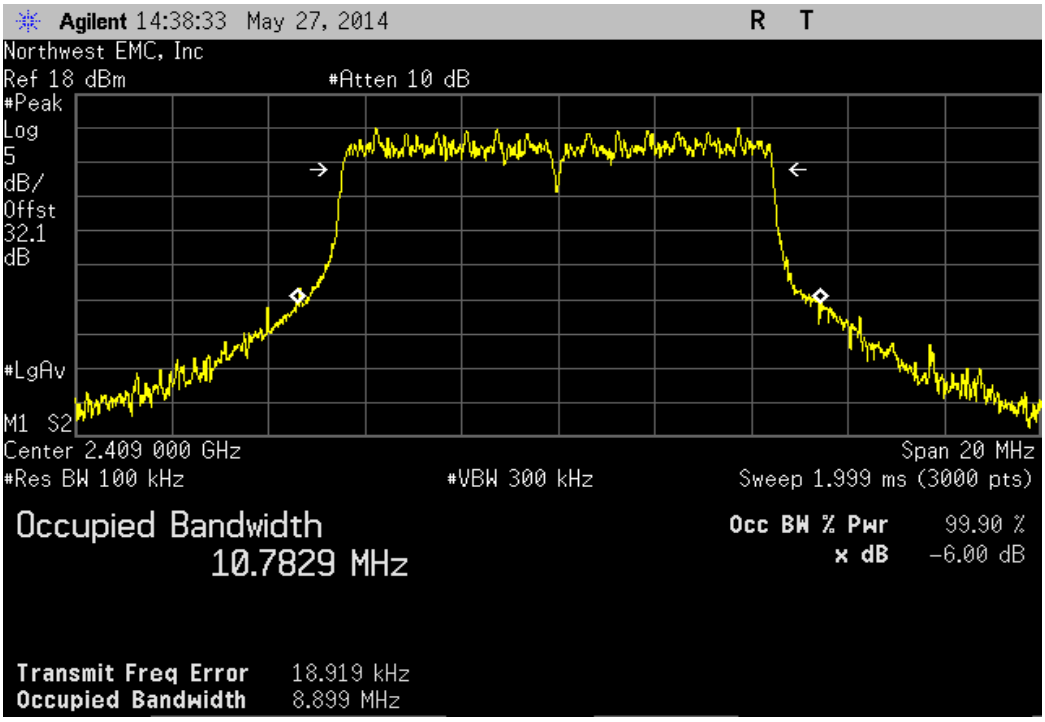
				Value	Limit	Result
				8.901 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

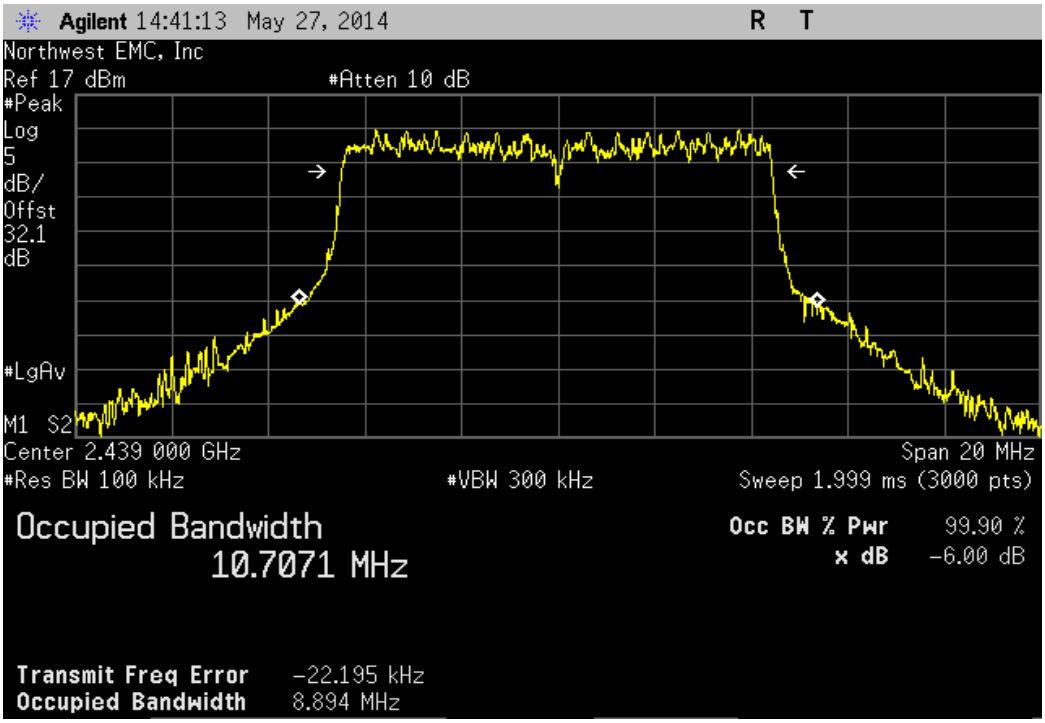
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2409 MHz

				Value	Limit	Result
				8.899 MHz	> 500 kHz	Pass



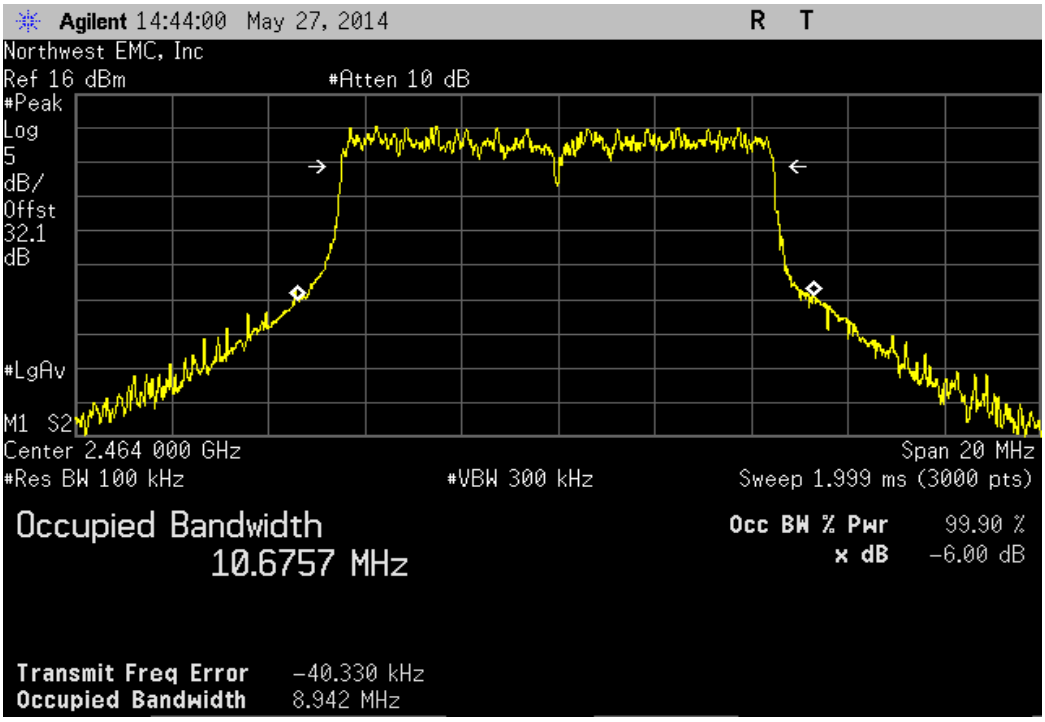
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2439 MHz

				Value	Limit	Result
				8.894 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2464 MHz						
				Value	Limit	Result
				8.942 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 2x2 MIMO

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
40GHz DC Block	Miteq	DCB4000	AMD	4/28/2014	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 6 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-6	AUX	7/30/2013	12
Power Meter	Agilent	N1913A	SQR	4/29/2013	36
Power Sensor	Agilent	E9300H	SQO	4/29/2013	36
Spectrum Analyzer	Agilent	E4446A	AAQ	1/21/2014	24
MXG MW Analog Signal Generator 40 Gig	Agilent	N5183A	TID	9/19/2011	36

TEST DESCRIPTION

The 6dB occupied bandwidth was measured using 100 kHz resolution bandwidth and 300 kHz video bandwidth. The 99.9% (approximate 26 dB) emission bandwidth (EBW) was also measured at the same time.

The EUT was set to low, medium and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet.

OCCUPIED BANDWIDTH - 2x2 MIMO

EUT:	**WavePoint 10e Industrial Wireless Router (W2400-01)**	**Work Order:**	**FREW0026**
Serial Number:	**135268908**	**Date:**	**05/29/14**
Customer:	**FreeWave Technologies, Inc.**	**Temperature:**	**22°C**
Attendees:	**Dean Busch**	**Humidity:**	**36%**
Project:	**None**	**Barometric Pres.:**	**1022**
Tested by:	**Brandon Hobbs, Jared Ison**	**Job Site:**	**EV06**
Power:	**12 VDC**		

TEST SPECIFICATIONS	**Test Method**
FCC 15.247:2014	ANSI C63.10:2009

COMMENTS

An additional 10dB 5watt attenuater was used inline for all measurements made while under test. Please reference the power levels for this test in the power level table.

DEVIATIONS FROM TEST STANDARD

None

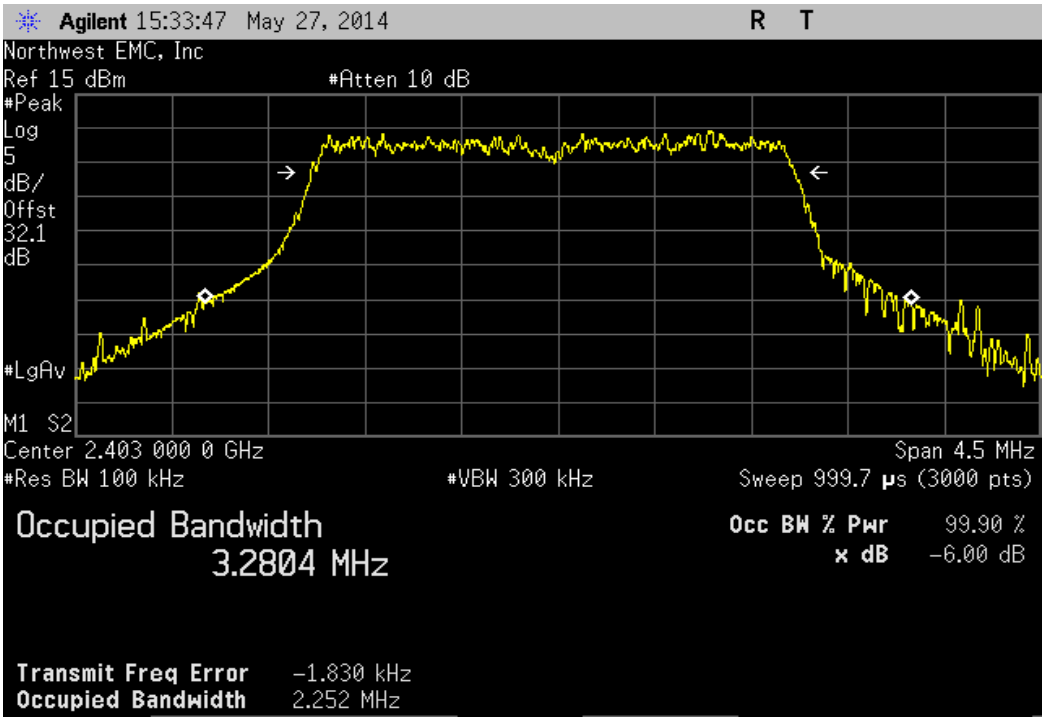
Configuration #	**1**	*Signature*

	Value	Limit	Result
Chain 1			
2400 MHz - 2483.5 MHz Band			
2.5MHz Bandwidth			
2x2 Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 2403 MHz	2.252 MHz	> 500 kHz	Pass
Mid Channel 2435 MHz	2.224 MHz	> 500 kHz	Pass
High Channel 2470 MHz	2.221 MHz	> 500 kHz	Pass
Low Channel 2406 MHz	4.47 MHz	> 500 kHz	Pass
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 2403 MHz	2.222 MHz	> 500 kHz	Pass
Mid Channel 2435 MHz	2.226 MHz	> 500 kHz	Pass
High Channel 2470 MHz	2.259 MHz	> 500 kHz	Pass
5MHz Bandwidth			
2x2 Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 2406 MHz	4.451 MHz	> 500 kHz	Pass
Mid Channel 2436 MHz	4.464 MHz	> 500 kHz	Pass
High Channel 2466 MHz	4.48 MHz	> 500 kHz	Pass
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 2406 MHz	4.453 MHz	> 500 kHz	Pass
Mid Channel 2436 MHz	4.479 MHz	> 500 kHz	Pass
High Channel 2466 MHz	4.448 MHz	> 500 kHz	Pass
10MHz Bandwidth			
2x2 Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 2409 MHz	8.903 MHz	> 500 kHz	Pass
Mid Channel 2439 MHz	8.908 MHz	> 500 kHz	Pass
High Channel 2464 MHz	8.899 MHz	> 500 kHz	Pass
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 2409 MHz	8.9 MHz	> 500 kHz	Pass
Mid Channel 2439 MHz	8.879 MHz	> 500 kHz	Pass
High Channel 2464 MHz	8.913 MHz	> 500 kHz	Pass
Chain 2			
2400 MHz - 2483.5 MHz Band			
2.5MHz Bandwidth			
2x2 Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 2403 MHz	2.223 MHz	> 500 kHz	Pass
Mid Channel 2435 MHz	2.253 MHz	> 500 kHz	Pass
High Channel 2470 MHz	2.256 MHz	> 500 kHz	Pass
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 2403 MHz	2.259 MHz	> 500 kHz	Pass
Mid Channel 2435 MHz	2.241 MHz	> 500 kHz	Pass
High Channel 2470 MHz	2.269 MHz	> 500 kHz	Pass
5MHz Bandwidth			
2x2 Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 2406 MHz	4.474 MHz	> 500 kHz	Pass
Mid Channel 2436 MHz	4.479 MHz	> 500 kHz	Pass
High Channel 2466 MHz	4.461 MHz	> 500 kHz	Pass
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 2406 MHz	4.513 MHz	> 500 kHz	Pass
Mid Channel 2436 MHz	4.458 MHz	> 500 kHz	Pass
High Channel 2466 MHz	4.461 MHz	> 500 kHz	Pass
10MHz Bandwidth			
2x2 Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 2409 MHz	8.907 MHz	> 500 kHz	Pass
Mid Channel 2439 MHz	8.901 MHz	> 500 kHz	Pass
High Channel 2464 MHz	8.895 MHz	> 500 kHz	Pass
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 2409 MHz	8.872 MHz	> 500 kHz	Pass
Mid Channel 2439 MHz	8.855 MHz	> 500 kHz	Pass
High Channel 2464 MHz	8.864 MHz	> 500 kHz	Pass

OCCUPIED BANDWIDTH - 2x2 MIMO

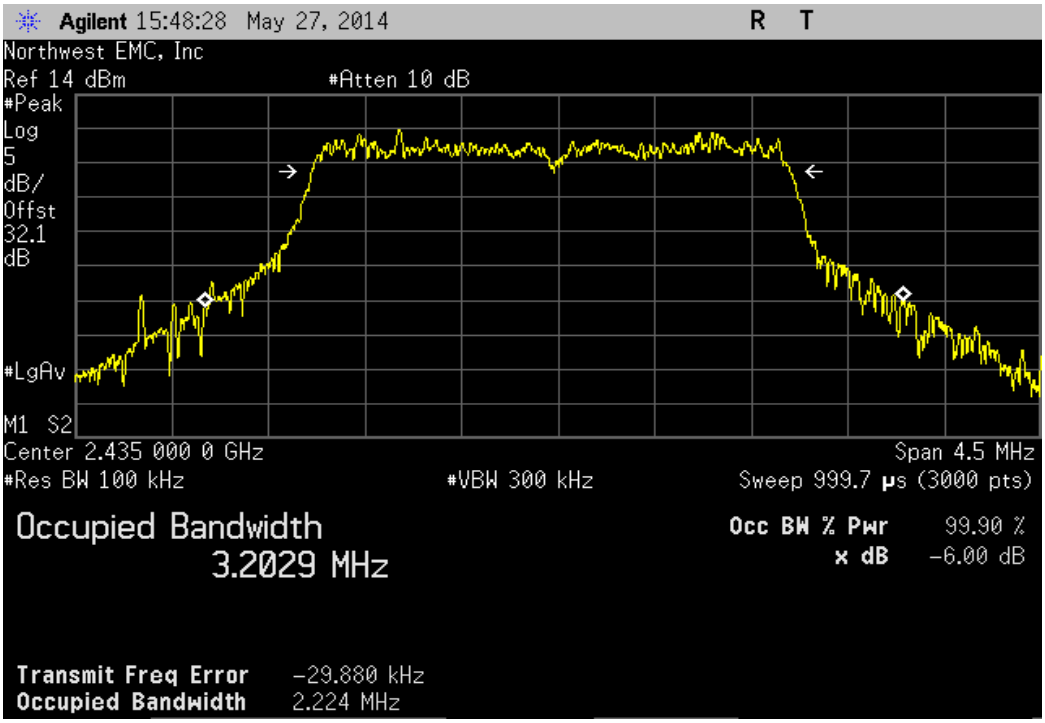
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2403 MHz

				Value	Limit	Result
				2.252 MHz	> 500 kHz	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2435 MHz

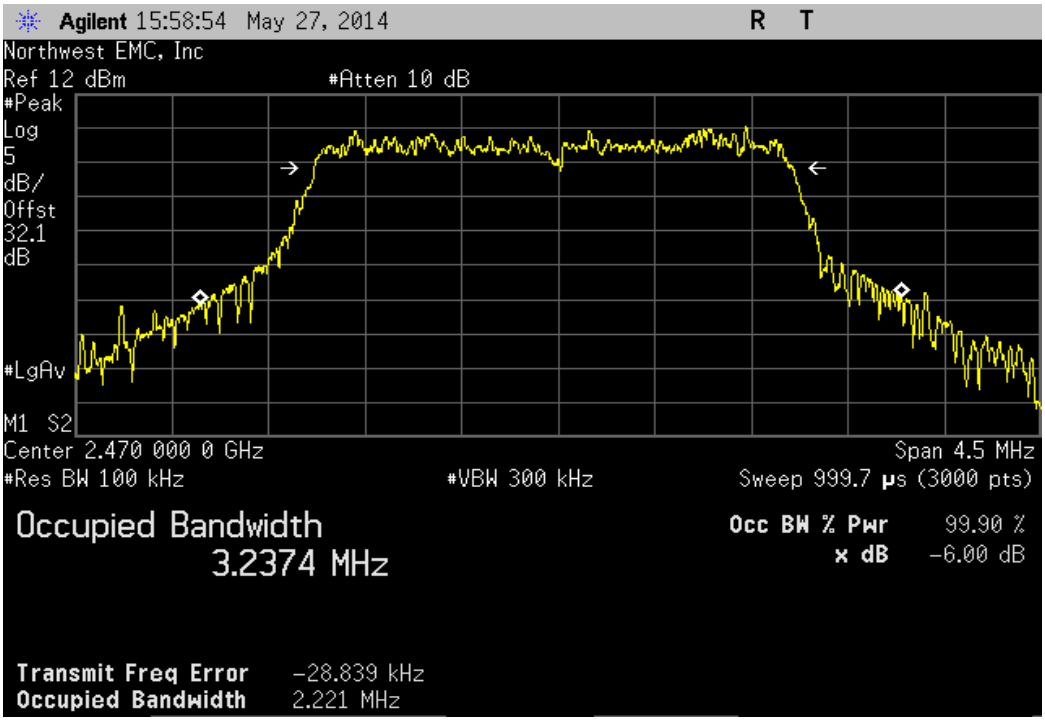
				Value	Limit	Result
				2.224 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 2x2 MIMO

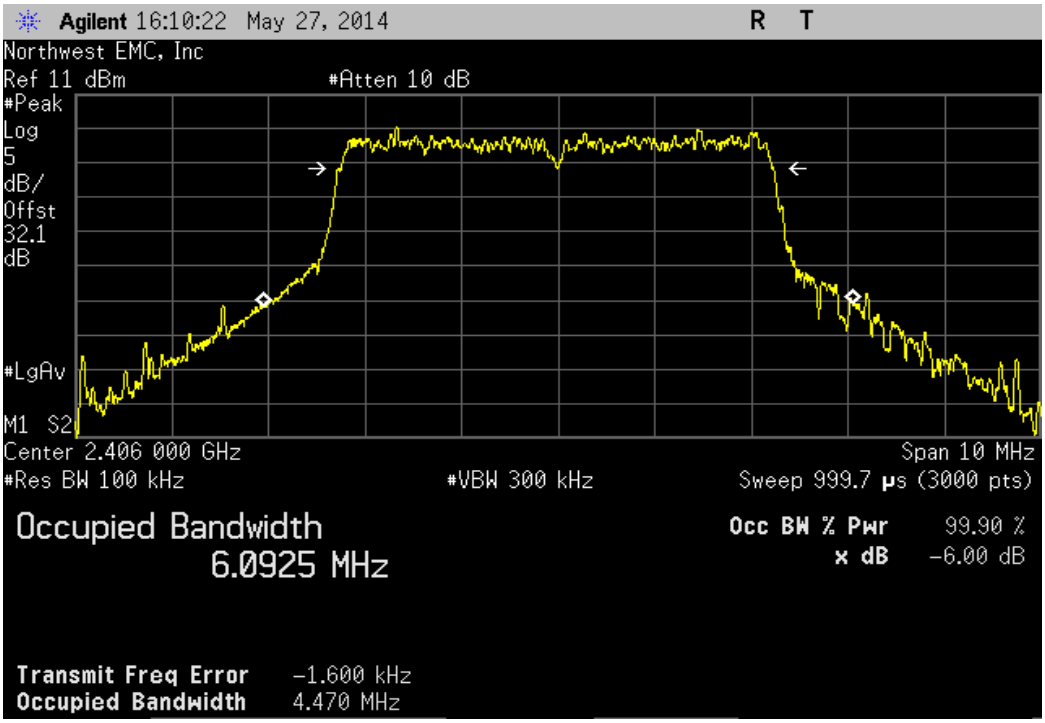
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2470 MHz

				Value	Limit	Result
				2.221 MHz	> 500 kHz	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2406 MHz

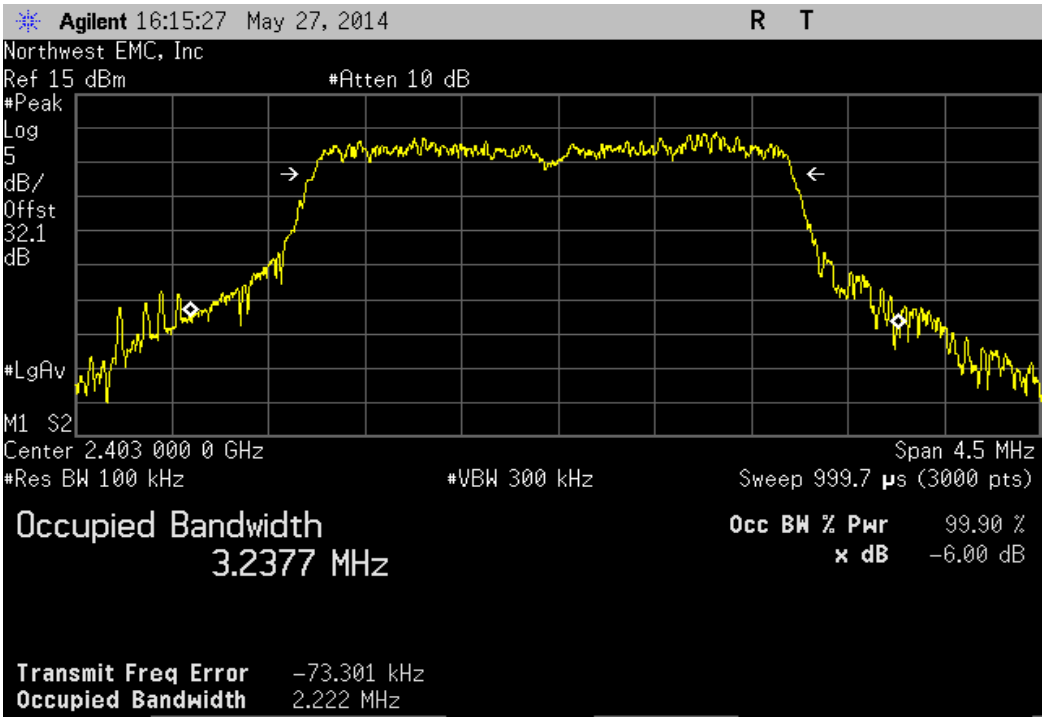
				Value	Limit	Result
				4.47 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 2x2 MIMO

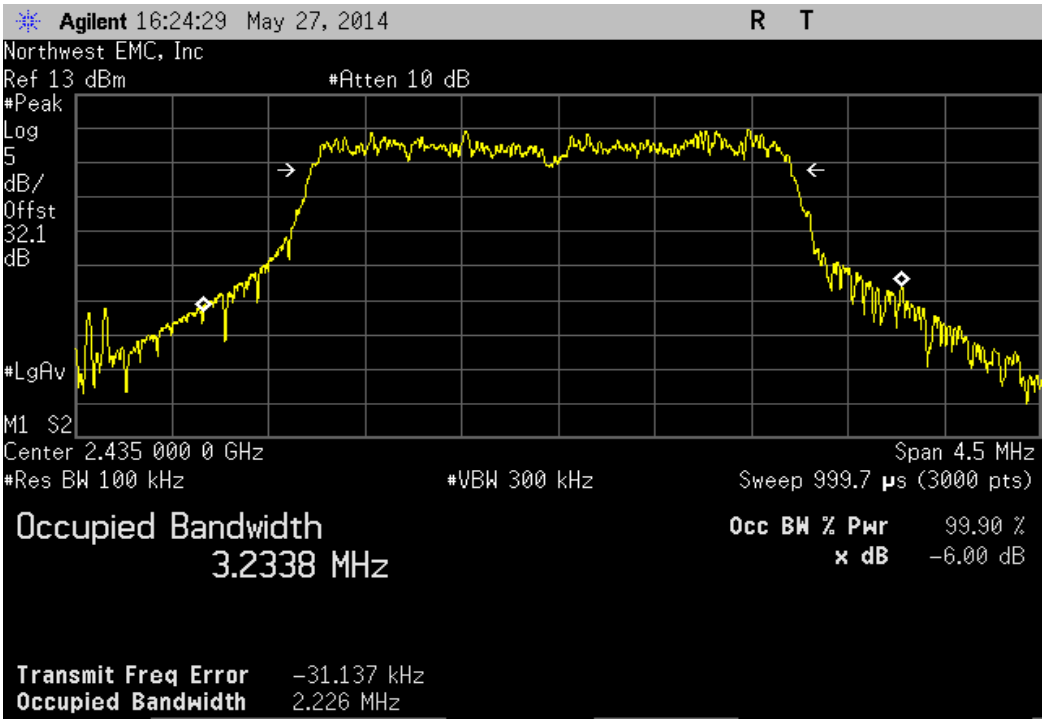
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2403 MHz

				Value	Limit	Result
				2.222 MHz	> 500 kHz	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2435 MHz

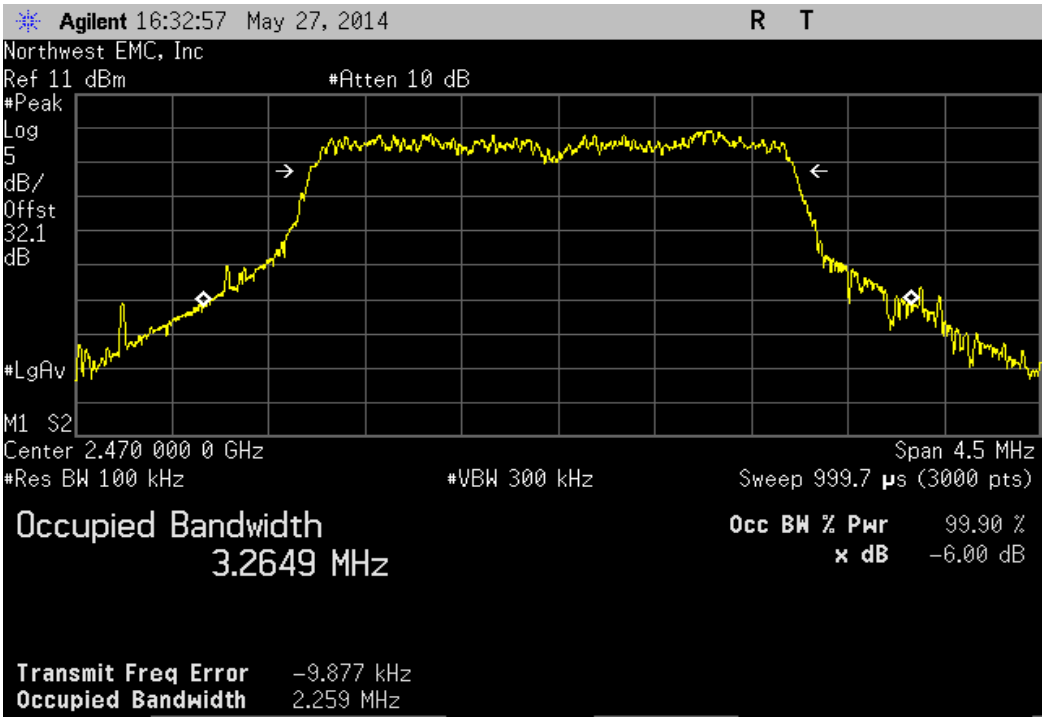
				Value	Limit	Result
				2.226 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 2x2 MIMO

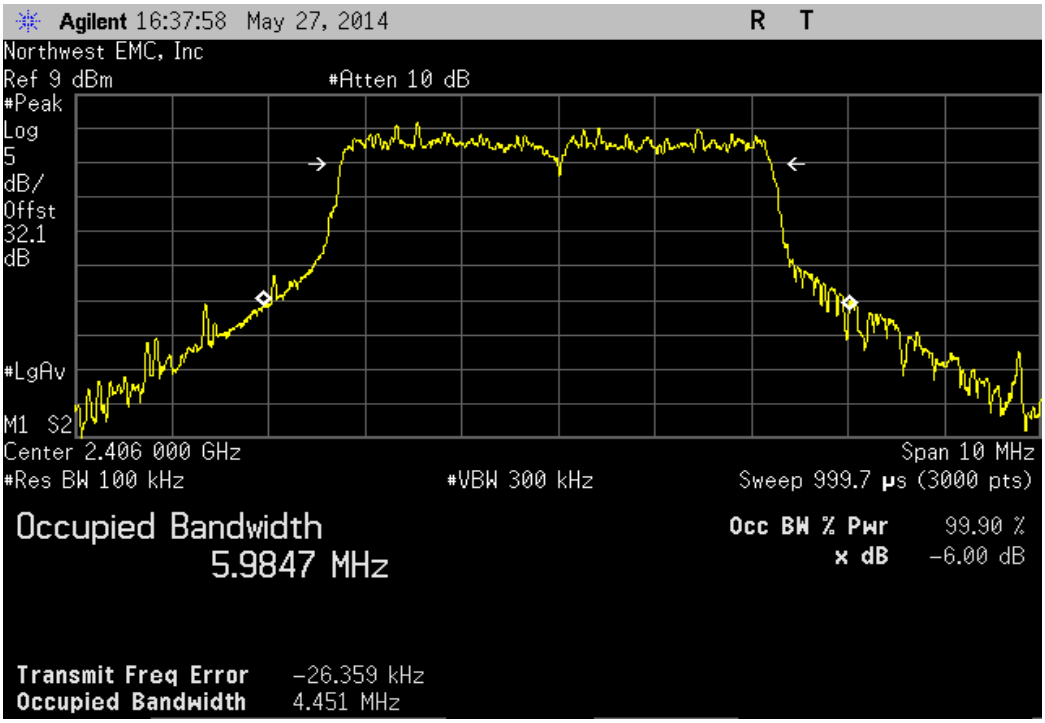
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2470 MHz

				Value	Limit	Result
				2.259 MHz	> 500 kHz	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2406 MHz

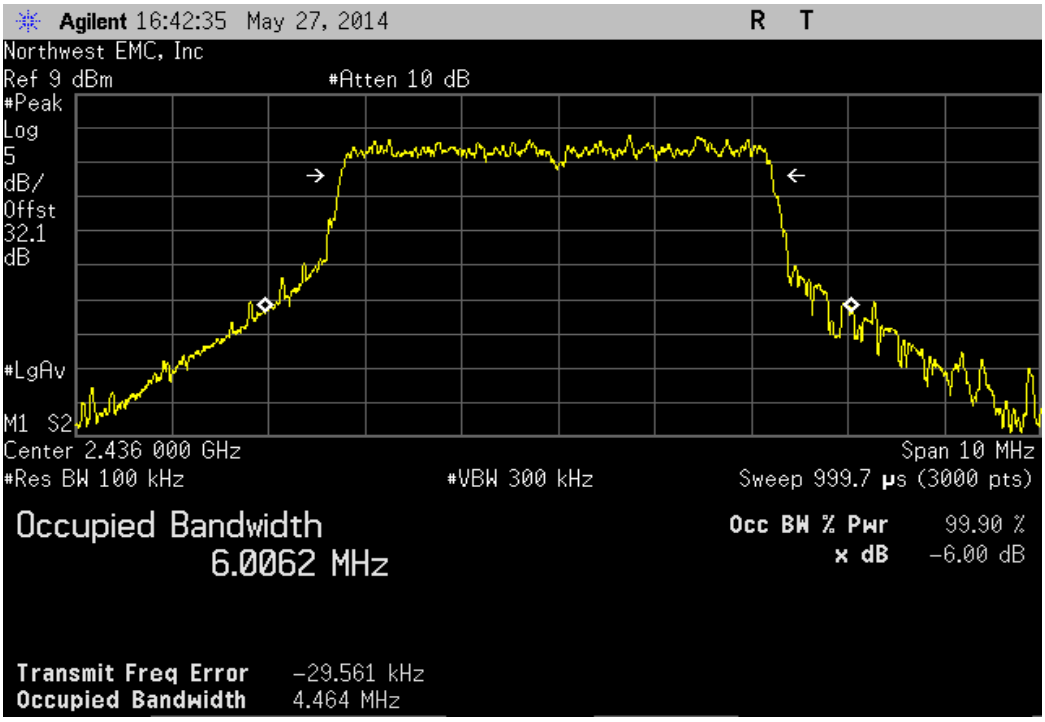
				Value	Limit	Result
				4.451 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 2x2 MIMO

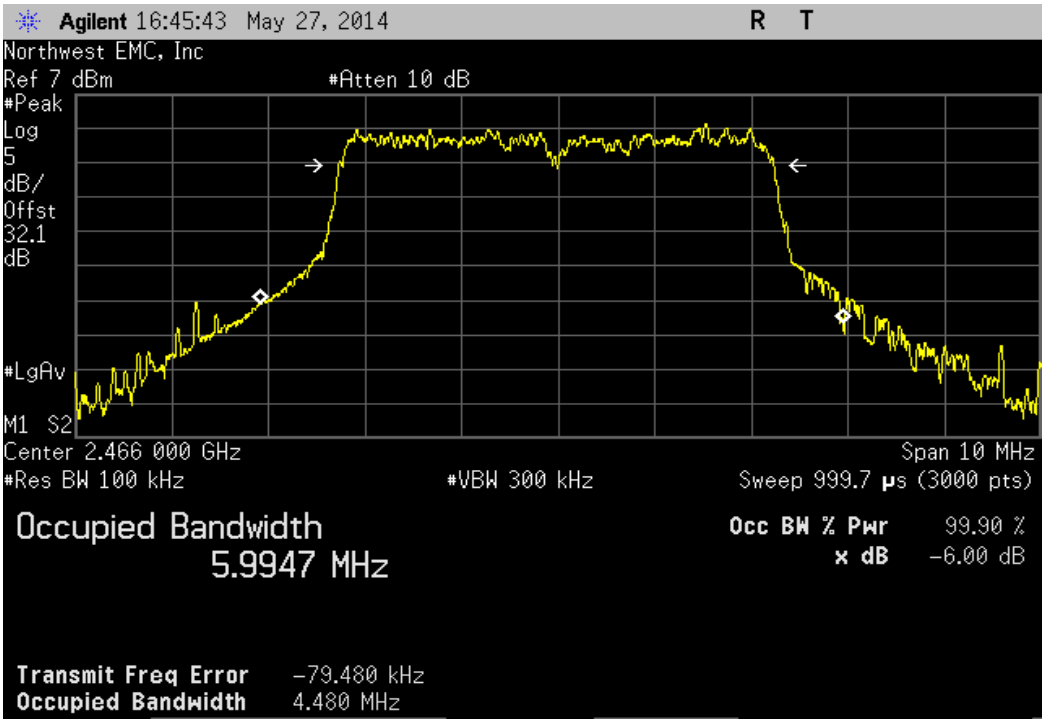
Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2436 MHz

				Value	Limit	Result
				4.464 MHz	> 500 kHz	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2466 MHz

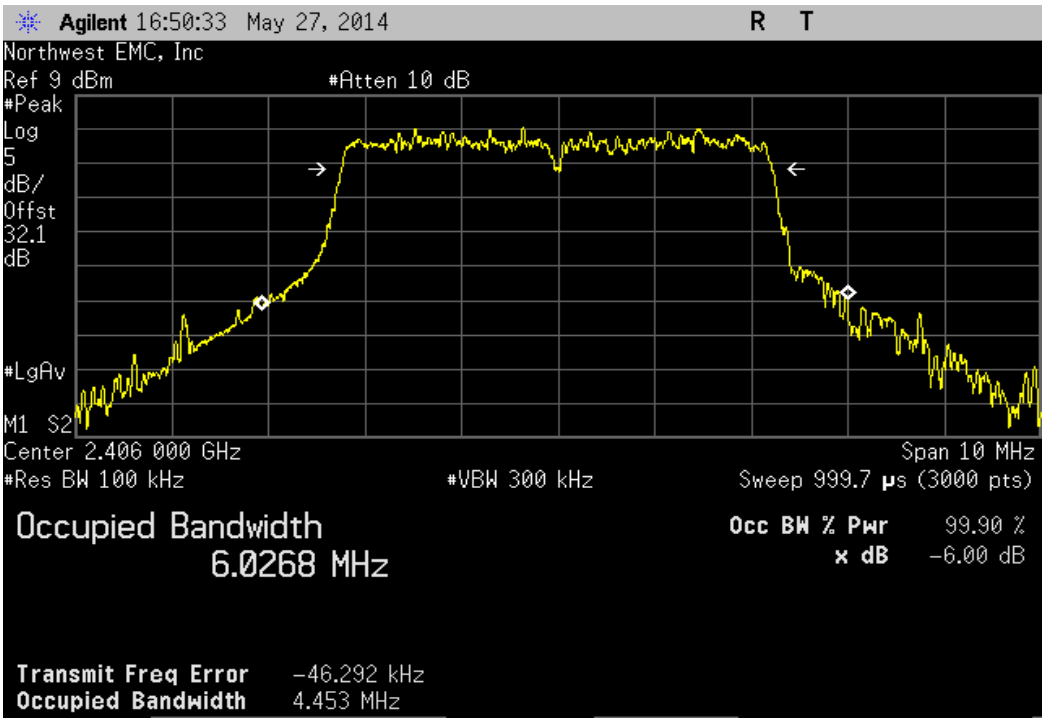
				Value	Limit	Result
				4.48 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 2x2 MIMO

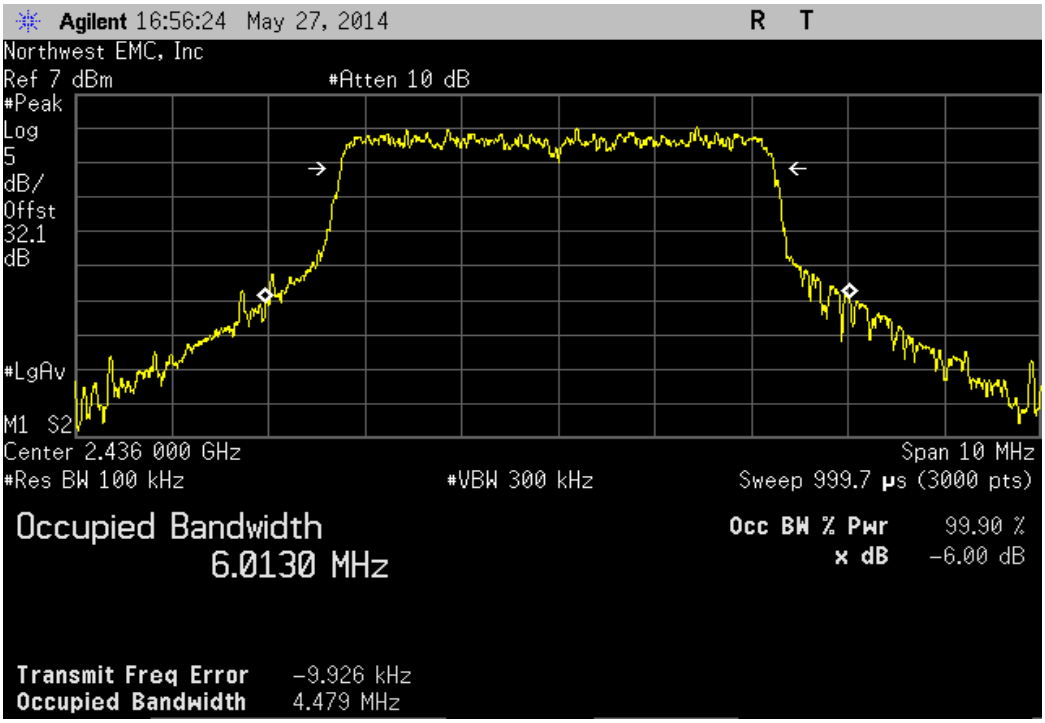
Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2406 MHz

				Value	Limit	Result
				4.453 MHz	> 500 kHz	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2436 MHz

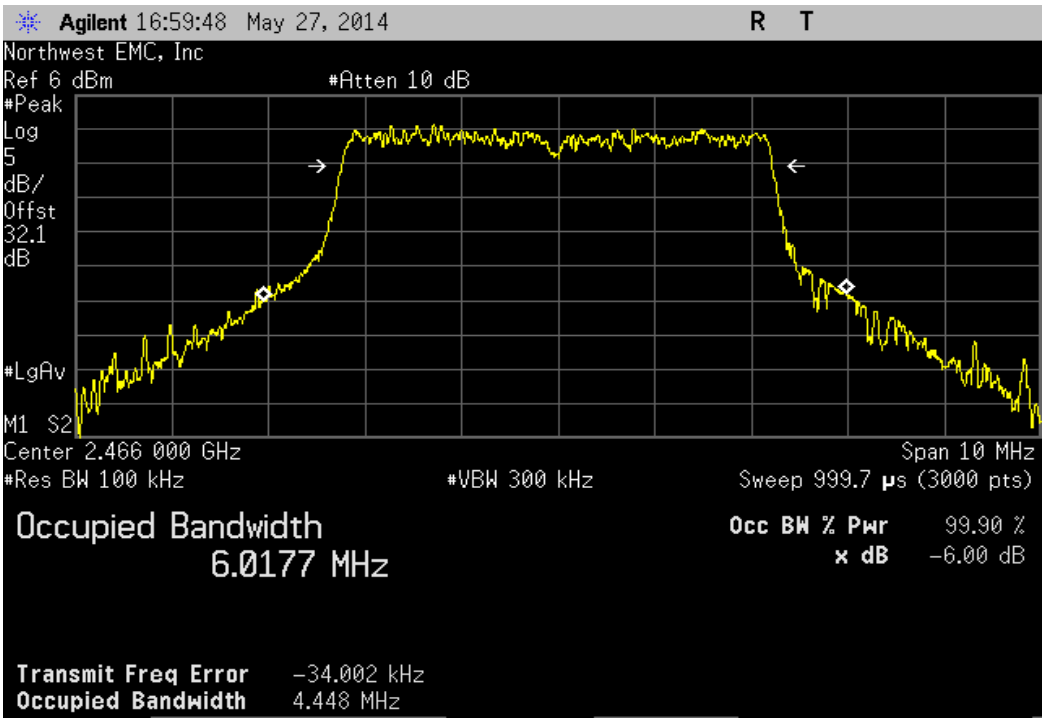
				Value	Limit	Result
				4.479 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 2x2 MIMO

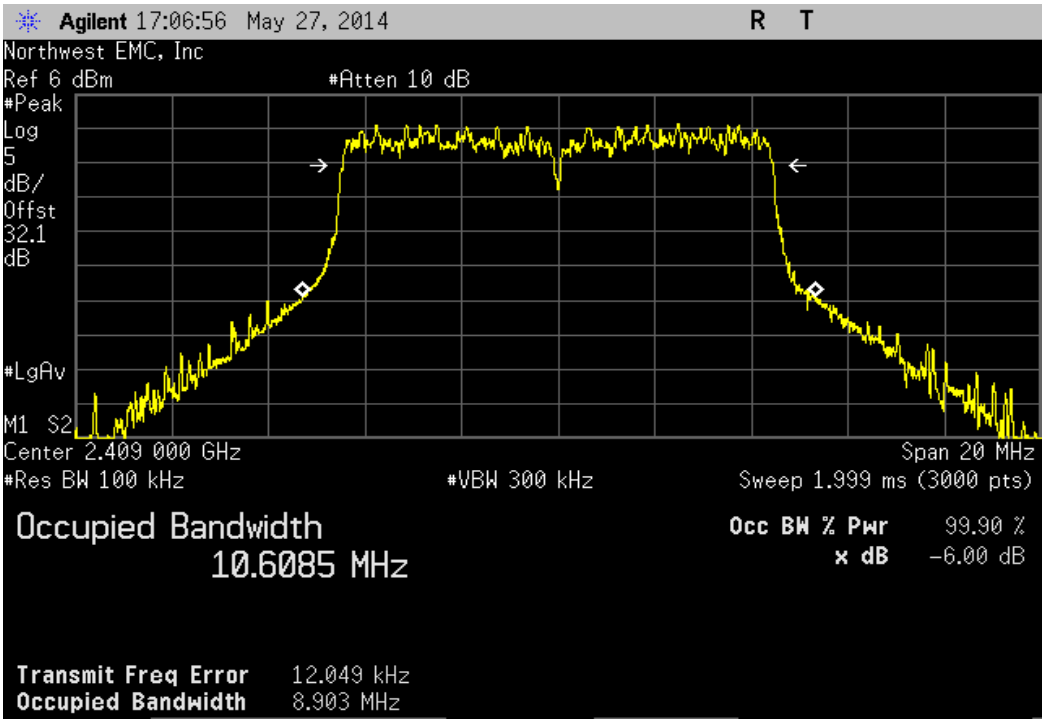
Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2466 MHz

				Value	Limit	Result
				4.448 MHz	> 500 kHz	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2409 MHz

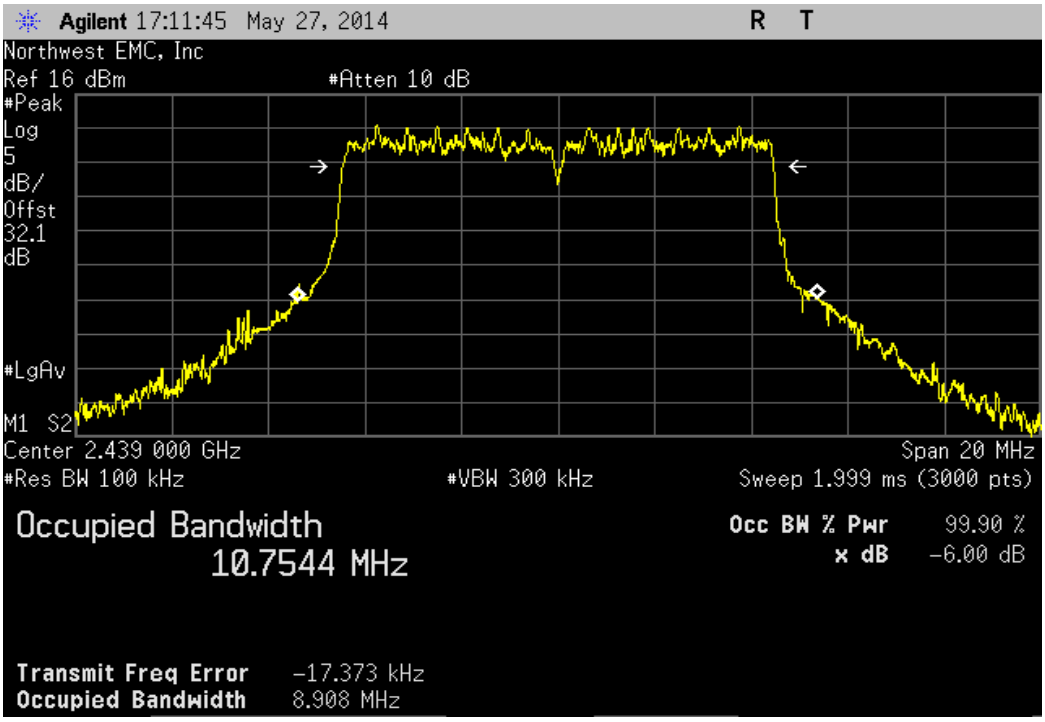
				Value	Limit	Result
				8.903 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 2x2 MIMO

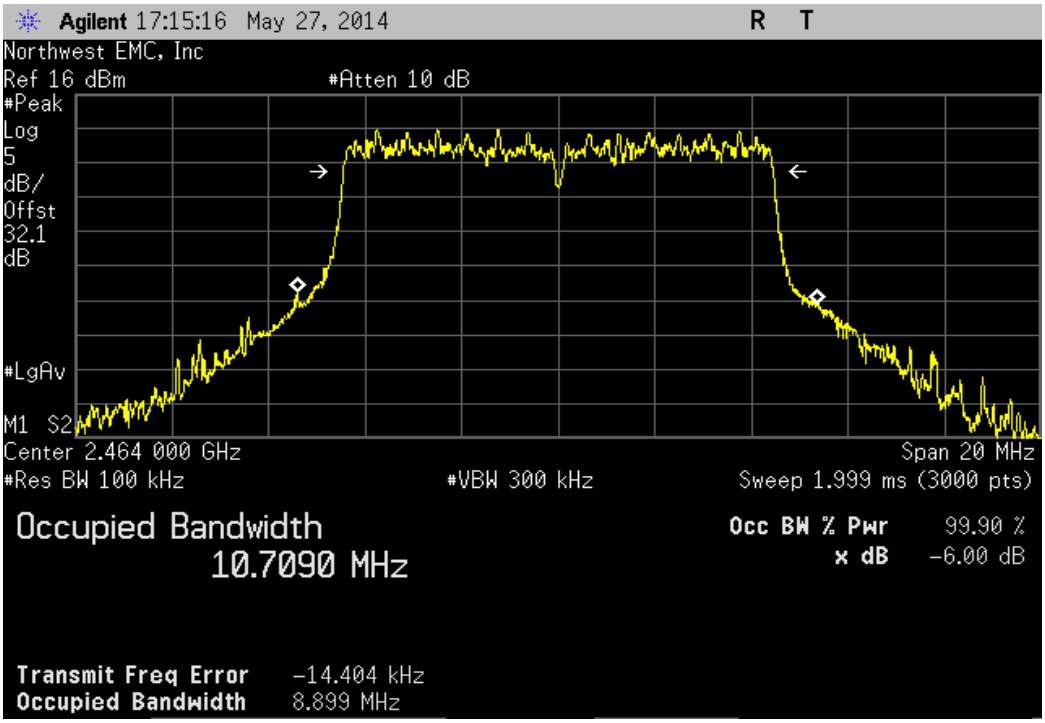
Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2439 MHz

				Value	Limit	Result
				8.908 MHz	> 500 kHz	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2464 MHz

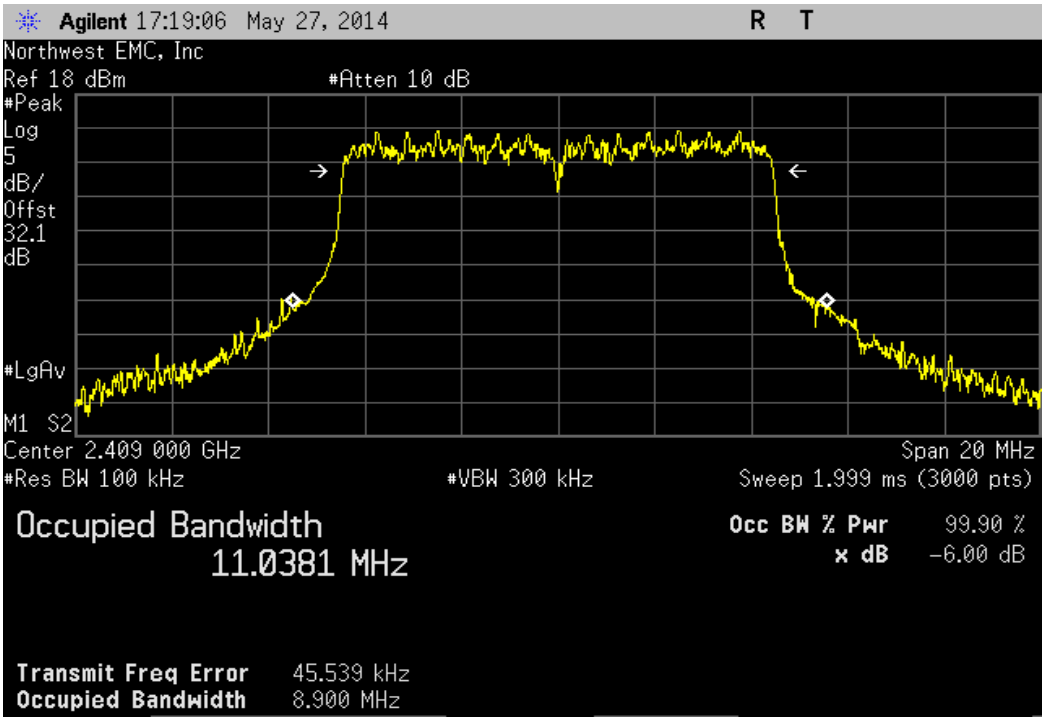
				Value	Limit	Result
				8.899 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 2x2 MIMO

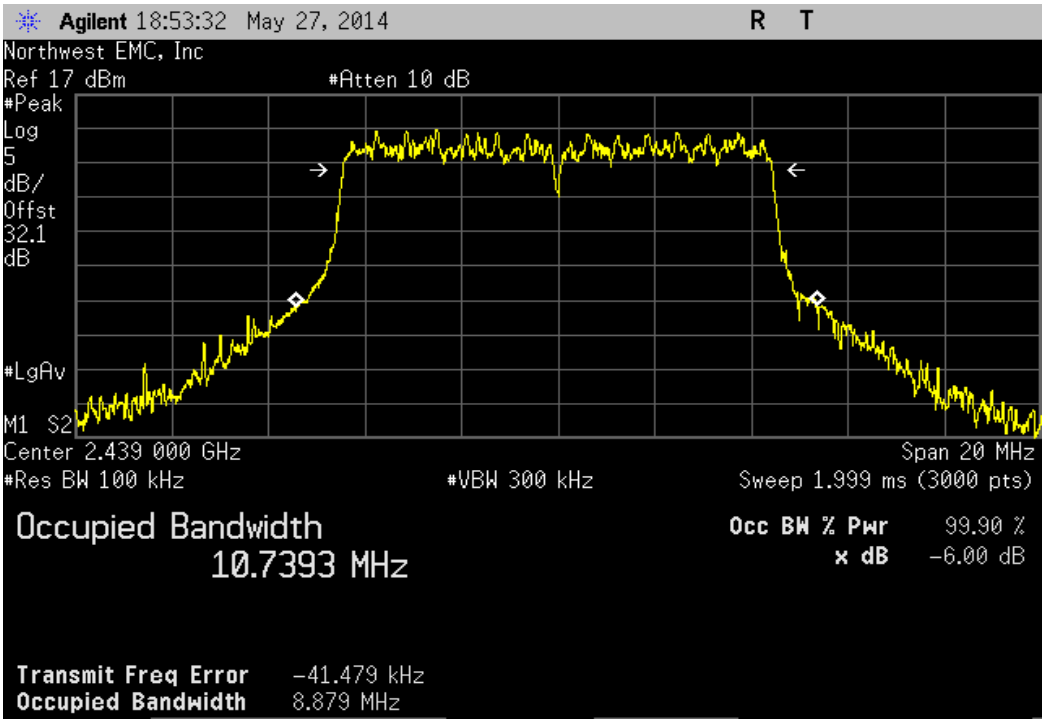
Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2409 MHz

				Value	Limit	Result
				8.9 MHz	> 500 kHz	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2439 MHz

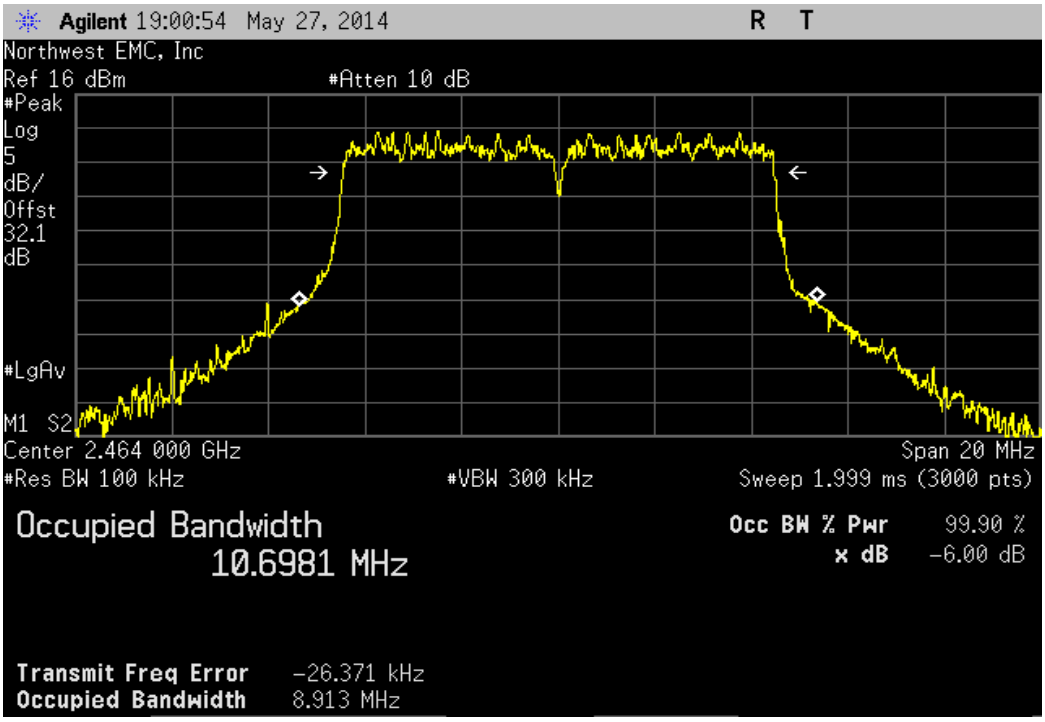
				Value	Limit	Result
				8.879 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 2x2 MIMO

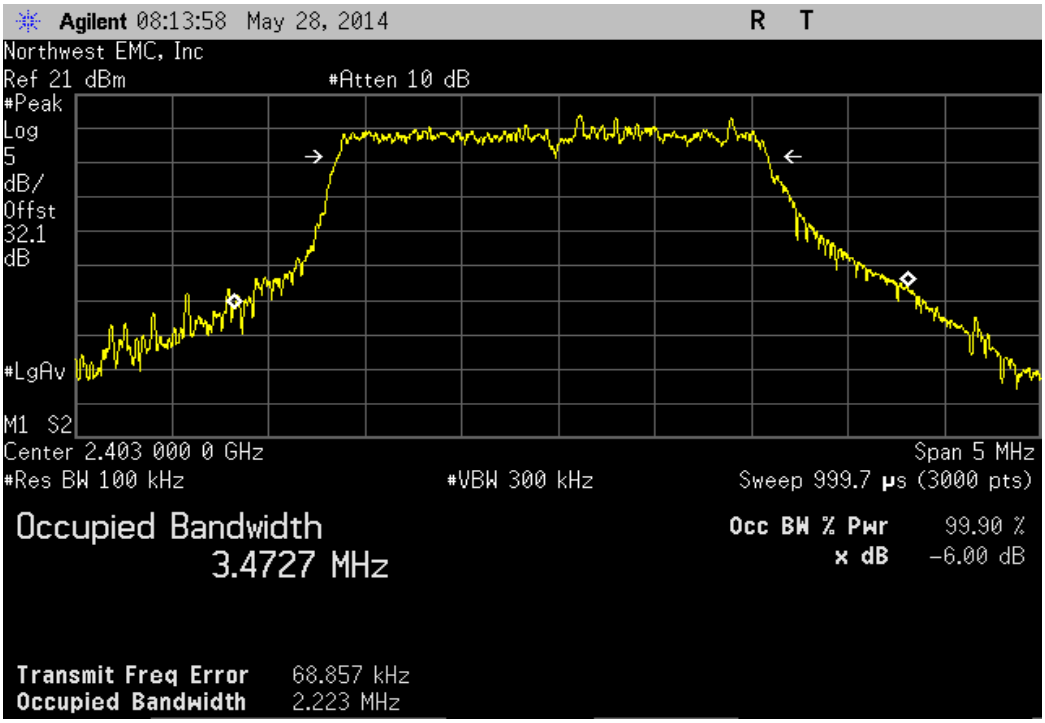
Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2464 MHz

				Value	Limit	Result
				8.913 MHz	> 500 kHz	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2403 MHz

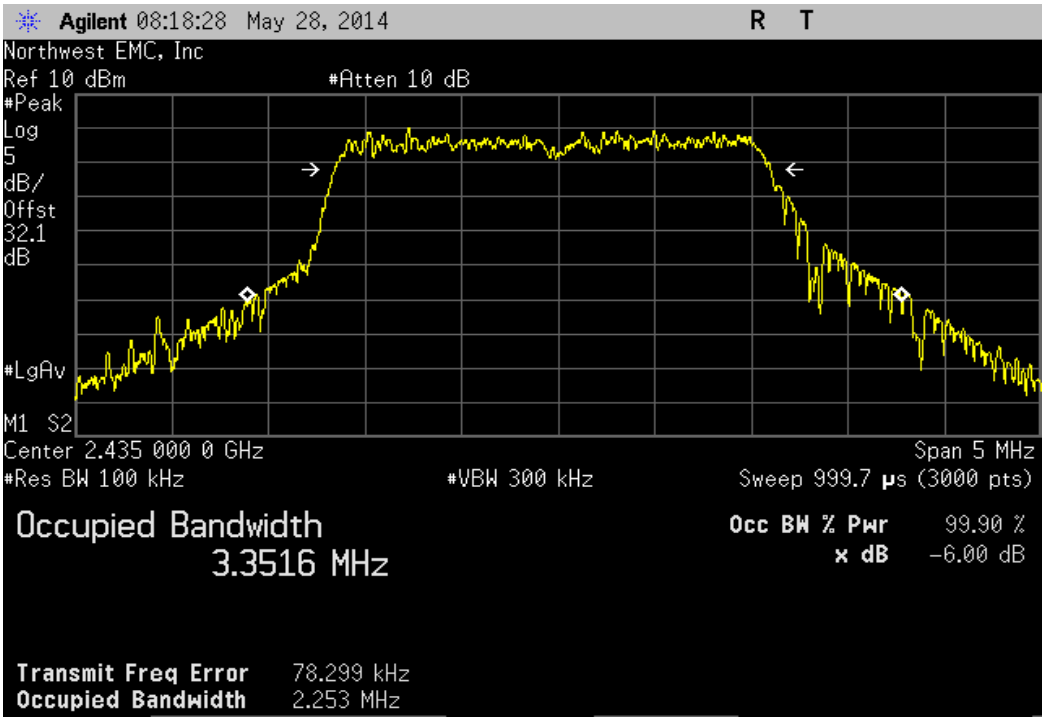
				Value	Limit	Result
				2.223 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 2x2 MIMO

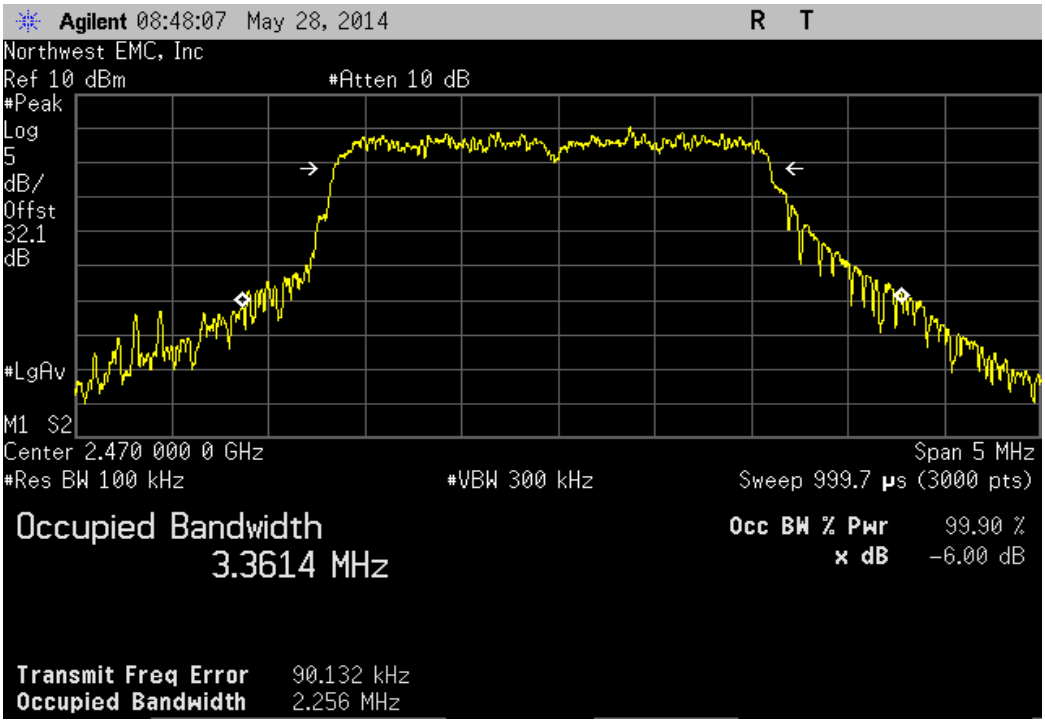
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2435 MHz

				Value	Limit	Result
				2.253 MHz	> 500 kHz	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2470 MHz

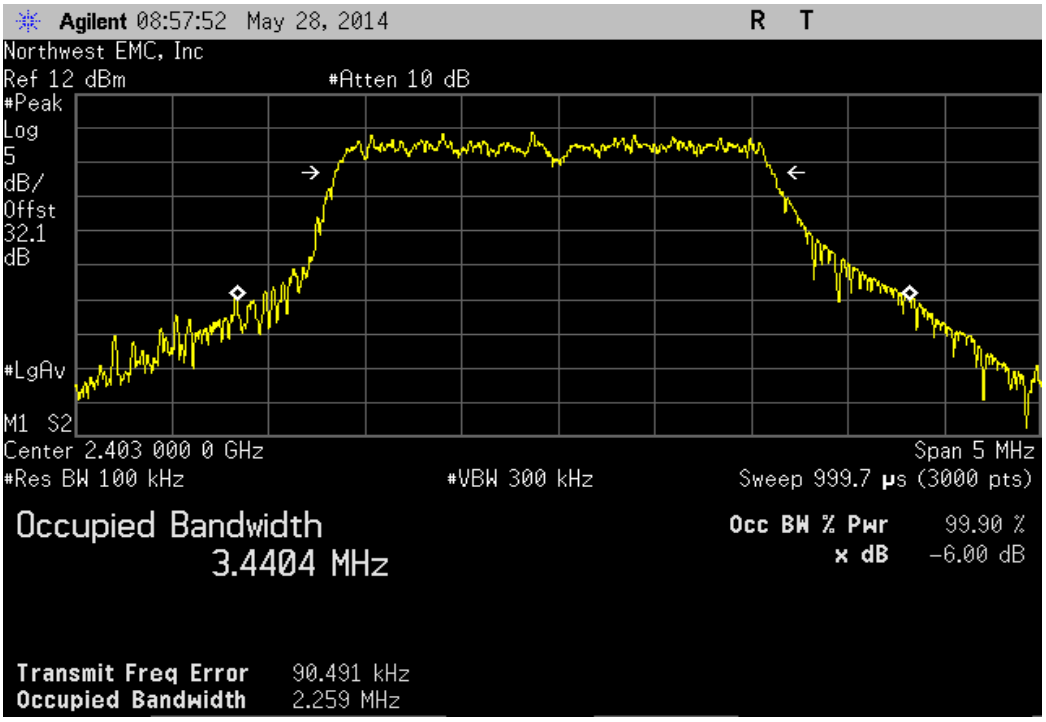
				Value	Limit	Result
				2.256 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 2x2 MIMO

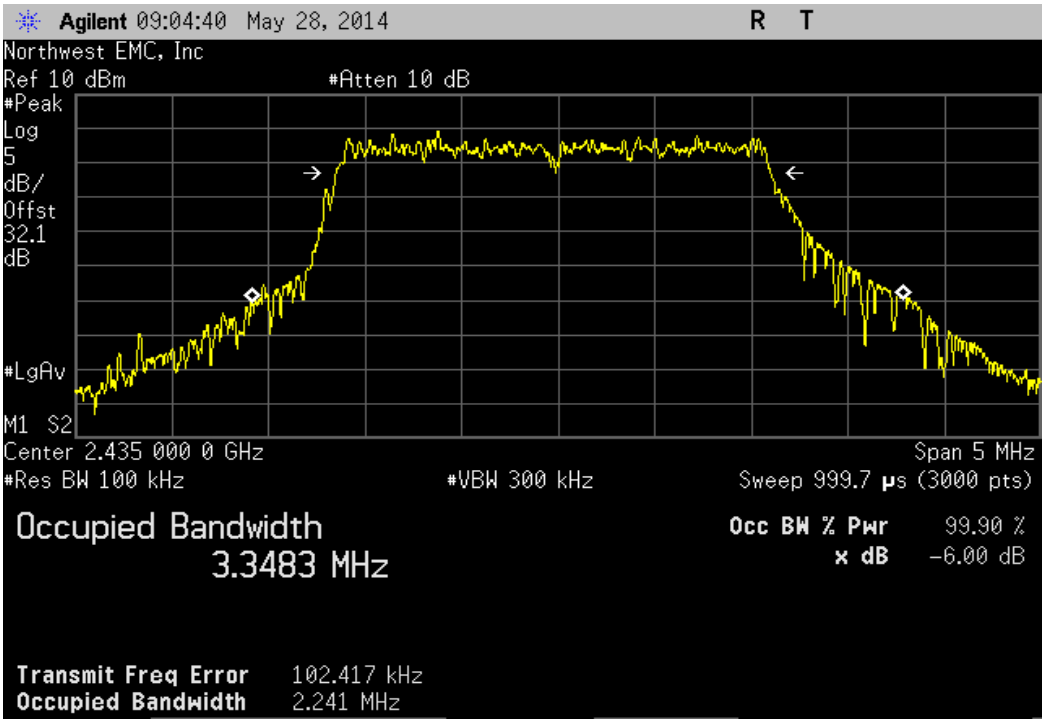
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2403 MHz

				Value	Limit	Result
				2.259 MHz	> 500 kHz	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2435 MHz

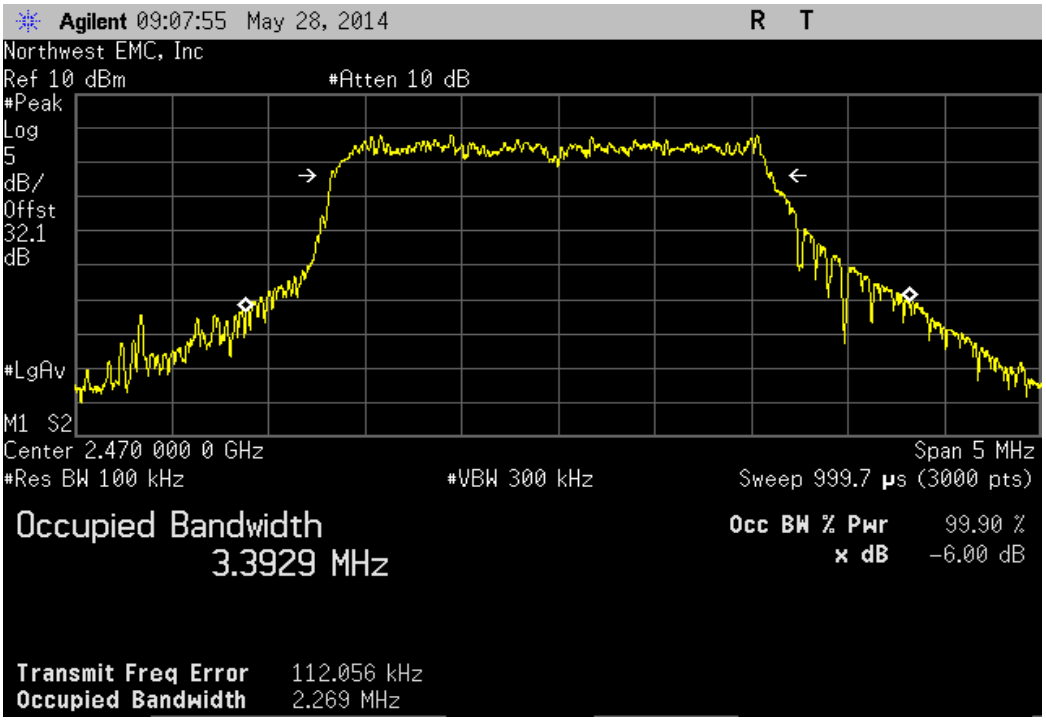
				Value	Limit	Result
				2.241 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 2x2 MIMO

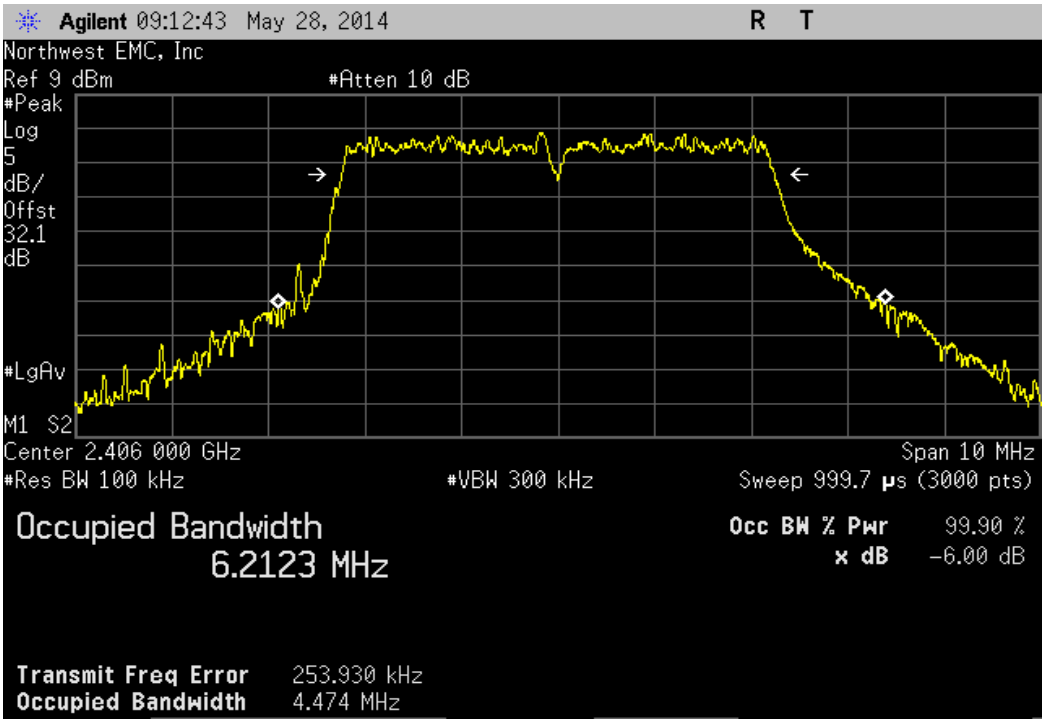
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2470 MHz

				Value	Limit	Result
				2.269 MHz	> 500 kHz	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2406 MHz

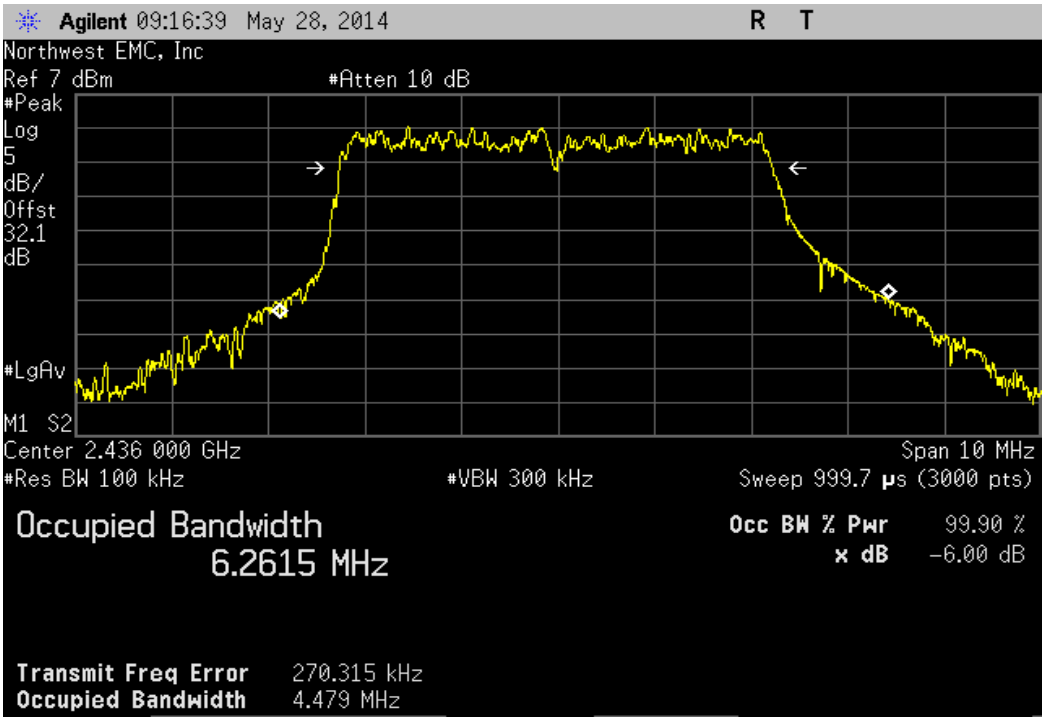
				Value	Limit	Result
				4.474 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 2x2 MIMO

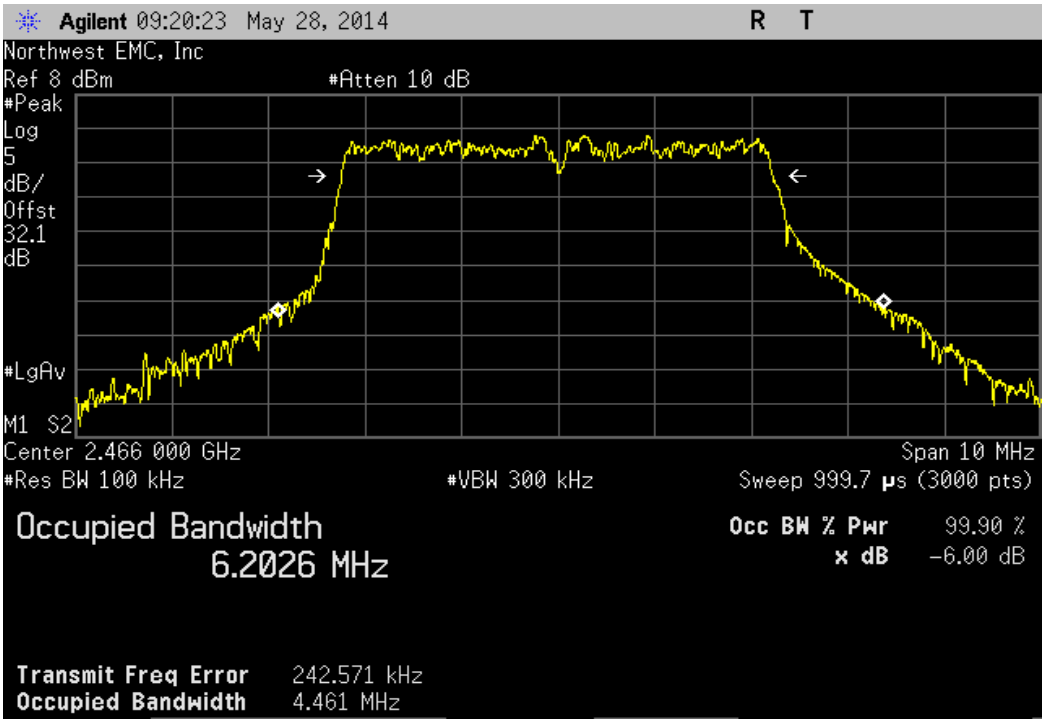
Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2436 MHz

				Value	Limit	Result
				4.479 MHz	> 500 kHz	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2466 MHz

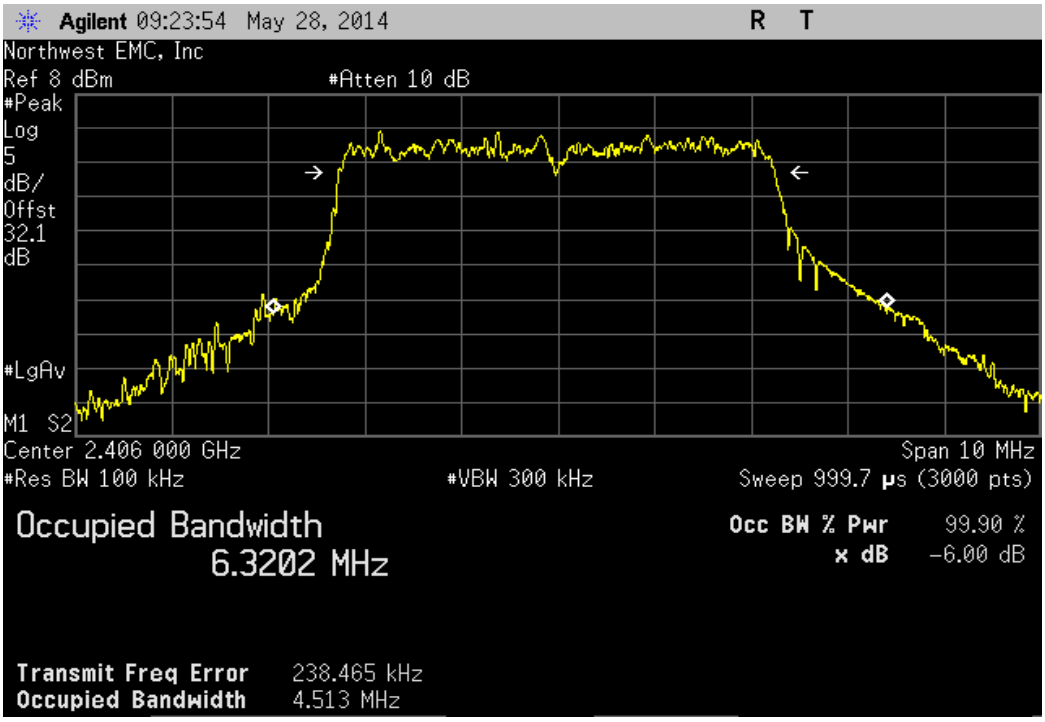
				Value	Limit	Result
				4.461 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 2x2 MIMO

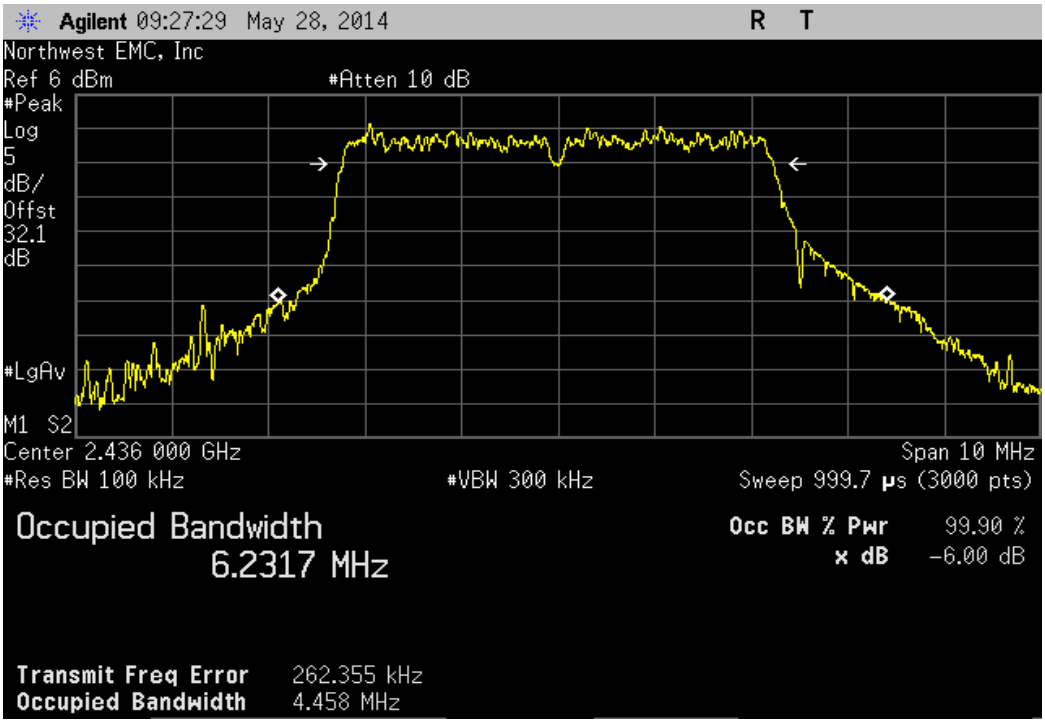
Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2406 MHz

				Value	Limit	Result
				4.513 MHz	> 500 kHz	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2436 MHz

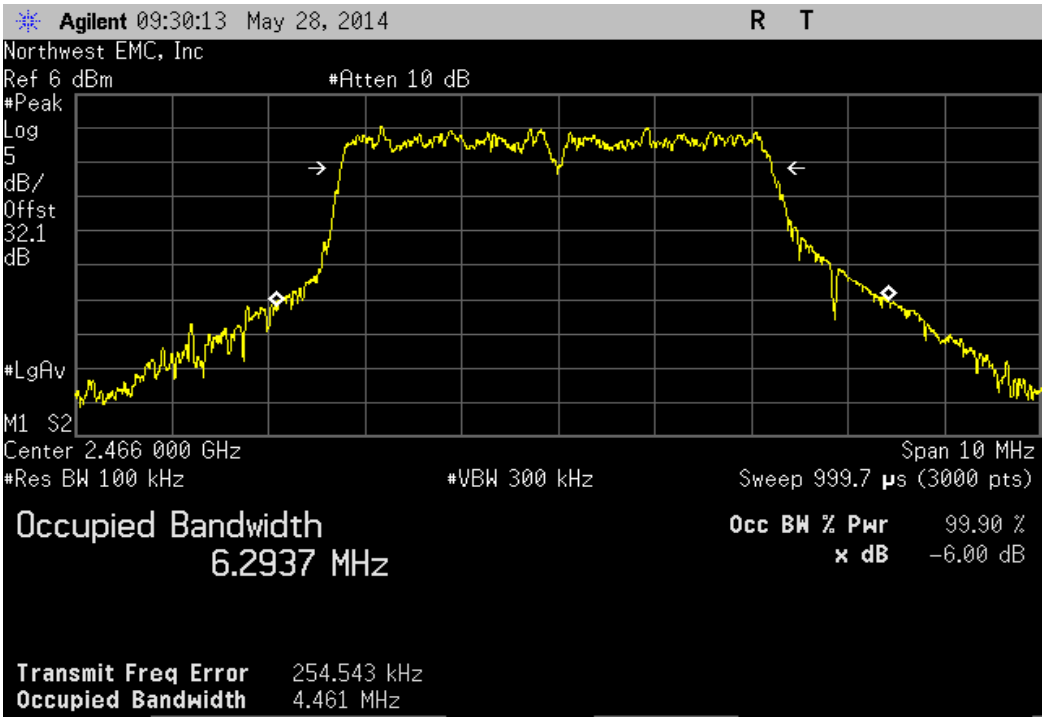
				Value	Limit	Result
				4.458 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 2x2 MIMO

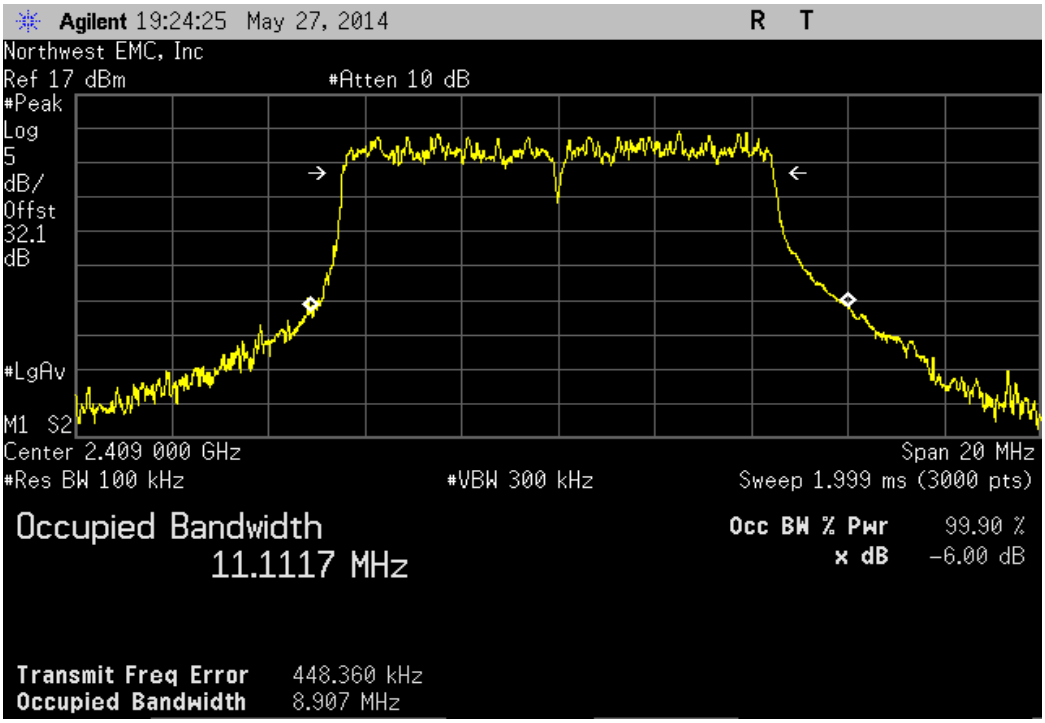
Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2466 MHz

				Value	Limit	Result
				4.461 MHz	> 500 kHz	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2409 MHz

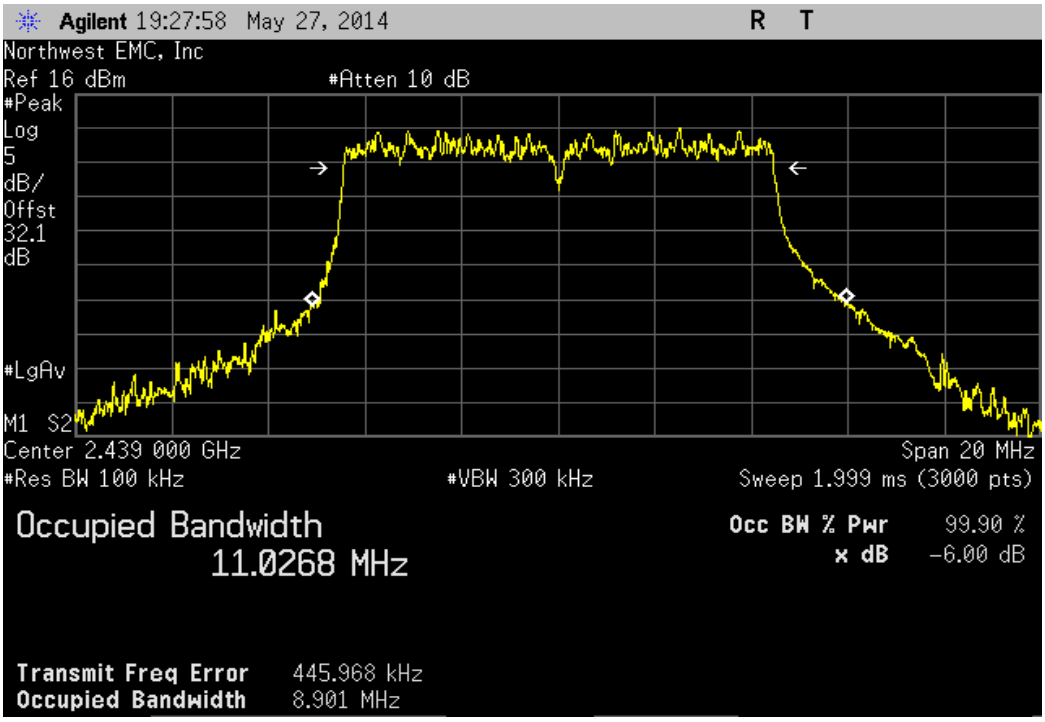
				Value	Limit	Result
				8.907 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 2x2 MIMO

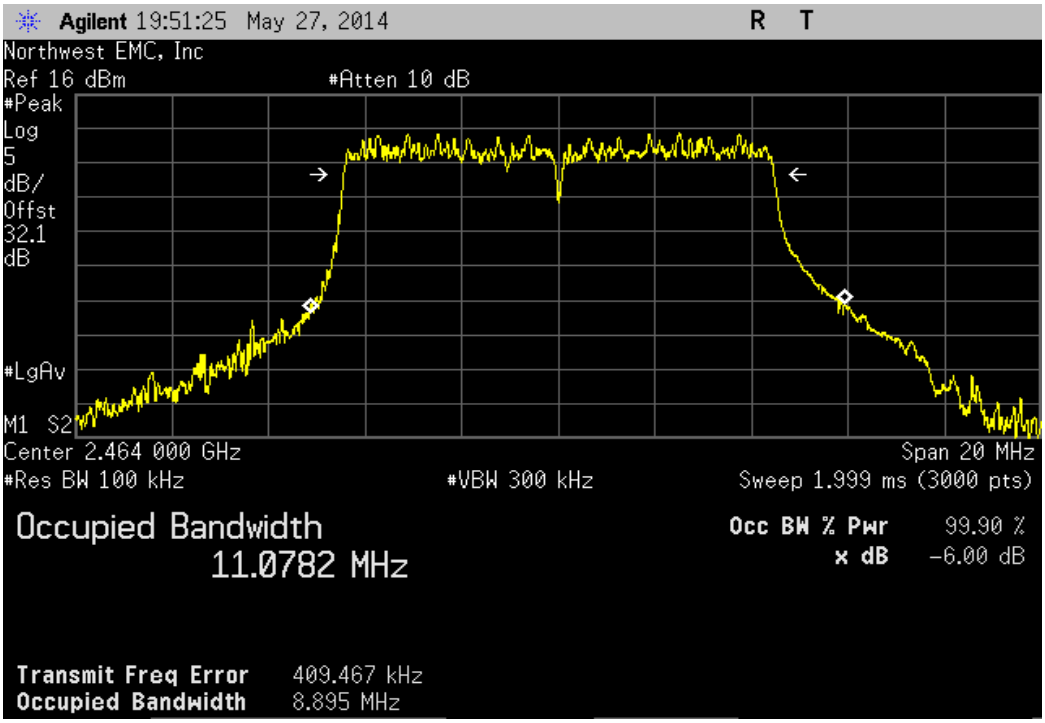
Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2439 MHz

				Value	Limit	Result
				8.901 MHz	> 500 kHz	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2464 MHz

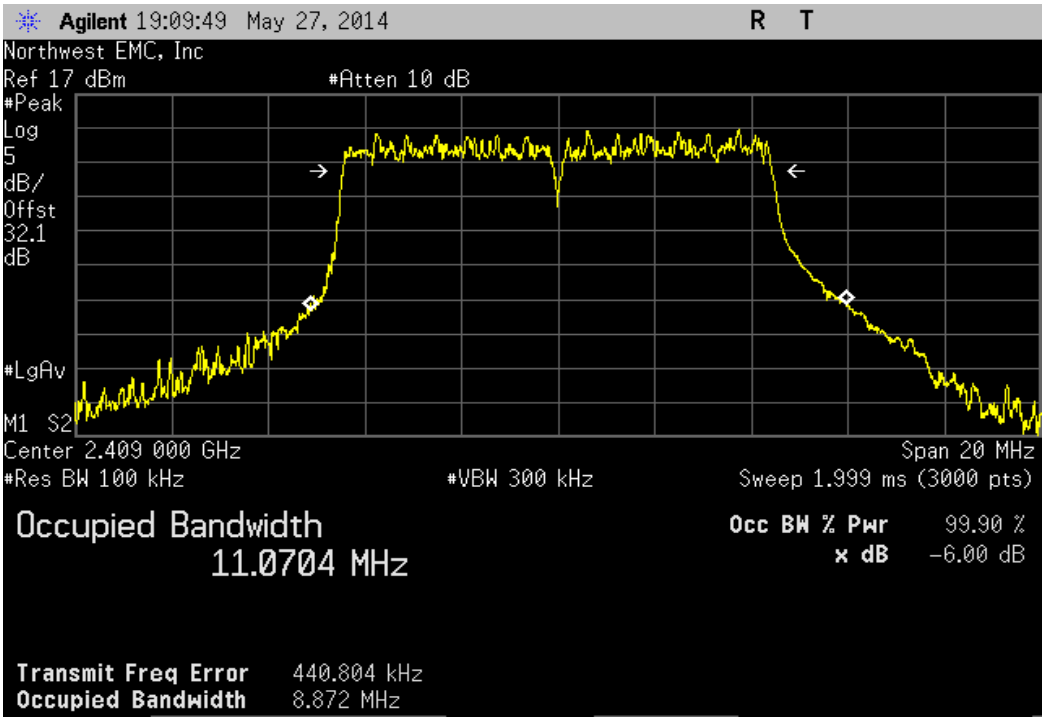
				Value	Limit	Result
				8.895 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 2x2 MIMO

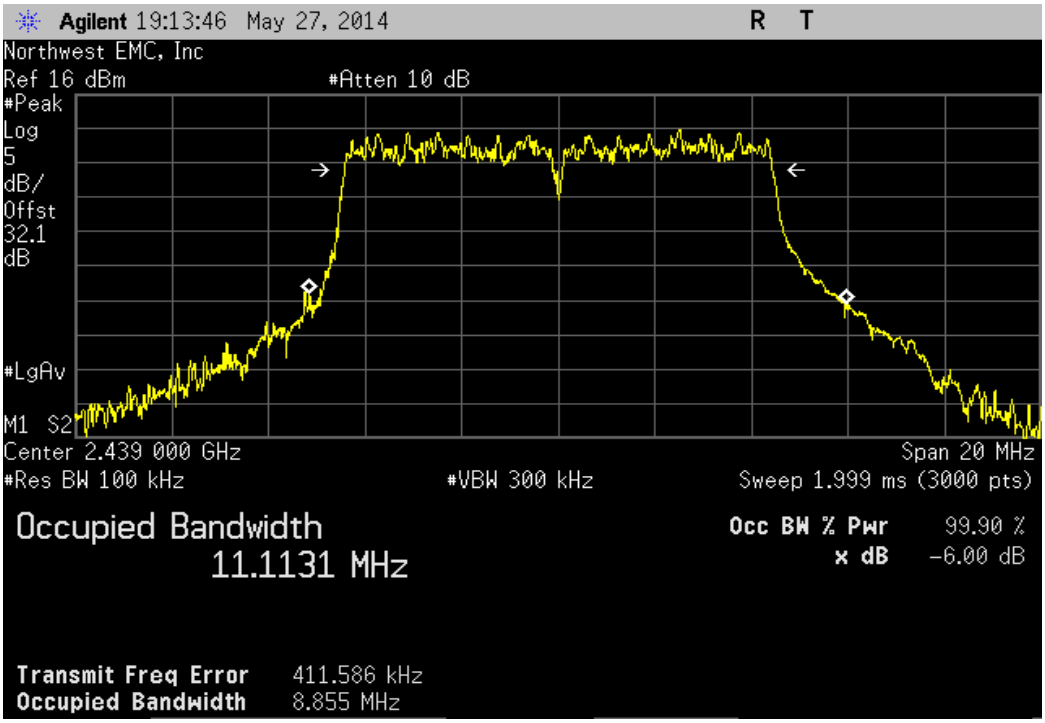
Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2409 MHz

				Value	Limit	Result
				8.872 MHz	> 500 kHz	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2439 MHz

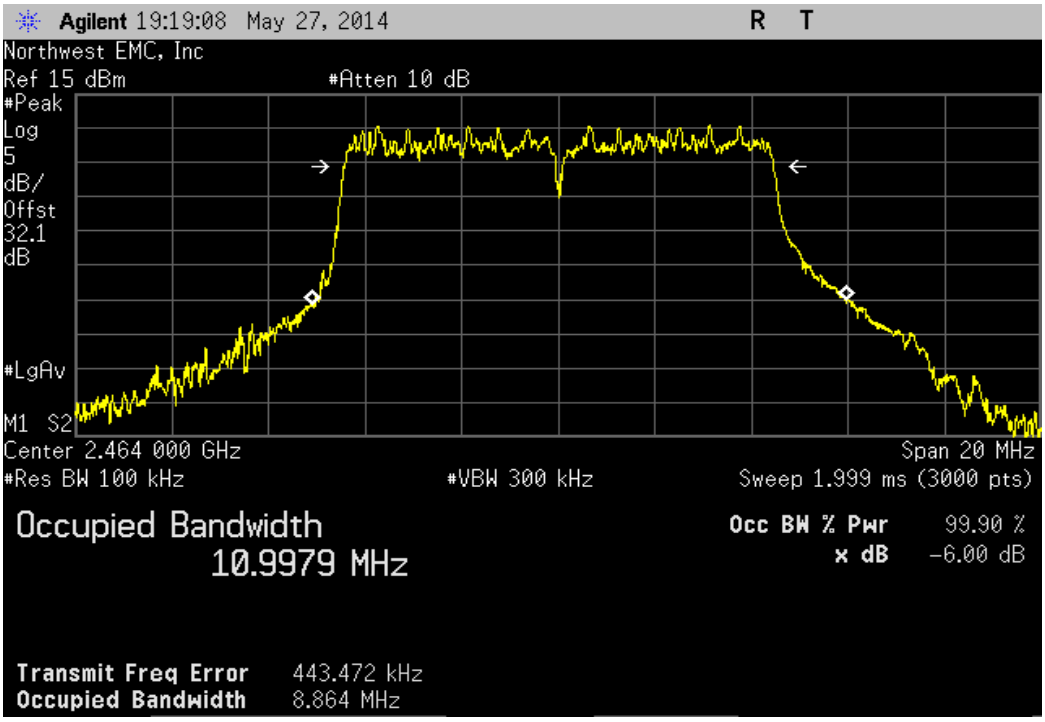
				Value	Limit	Result
				8.855 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 2x2 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2464 MHz

				Value	Limit	Result
				8.864 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 3x3 MIMO

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
40GHz DC Block	Miteq	DCB4000	AMD	4/28/2014	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 6 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-6	AUX	7/30/2013	12
Power Meter	Agilent	N1913A	SQR	4/29/2013	36
Power Sensor	Agilent	E9300H	SQO	4/29/2013	36
Spectrum Analyzer	Agilent	E4446A	AAQ	1/21/2014	24
MXG MW Analog Signal Generator 40 Gig	Agilent	N5183A	TID	9/19/2011	36

TEST DESCRIPTION

The 6dB occupied bandwidth was measured using 100 kHz resolution bandwidth and 300 kHz video bandwidth. The 99.9% (approximate 26 dB) emission bandwidth (EBW) was also measured at the same time.

The EUT was set to low, medium and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet.

OCCUPIED BANDWIDTH - 3x3 MIMO

EUT:	WavePoint 10e Industrial Wireless Router (W2400-01)	Work Order:	FREW0026
Serial Number:	135268908	Date:	05/29/14
Customer:	FreeWave Technologies, Inc.	Temperature:	22°C
Attendees:	Dean Busch	Humidity:	36%
Project:	None	Barometric Pres.:	1022
Tested by:	Brandon Hobbs, Jared Ison	Power: 12 VDC	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247:2014	ANSI C63.10:2009

COMMENTS

An additional 10dB 5watt attenuater was used inline for all measurements made while under test. Please reference the power levels for this test in the power level table.

DEVIATIONS FROM TEST STANDARD

None

Configuration #	1	Signature

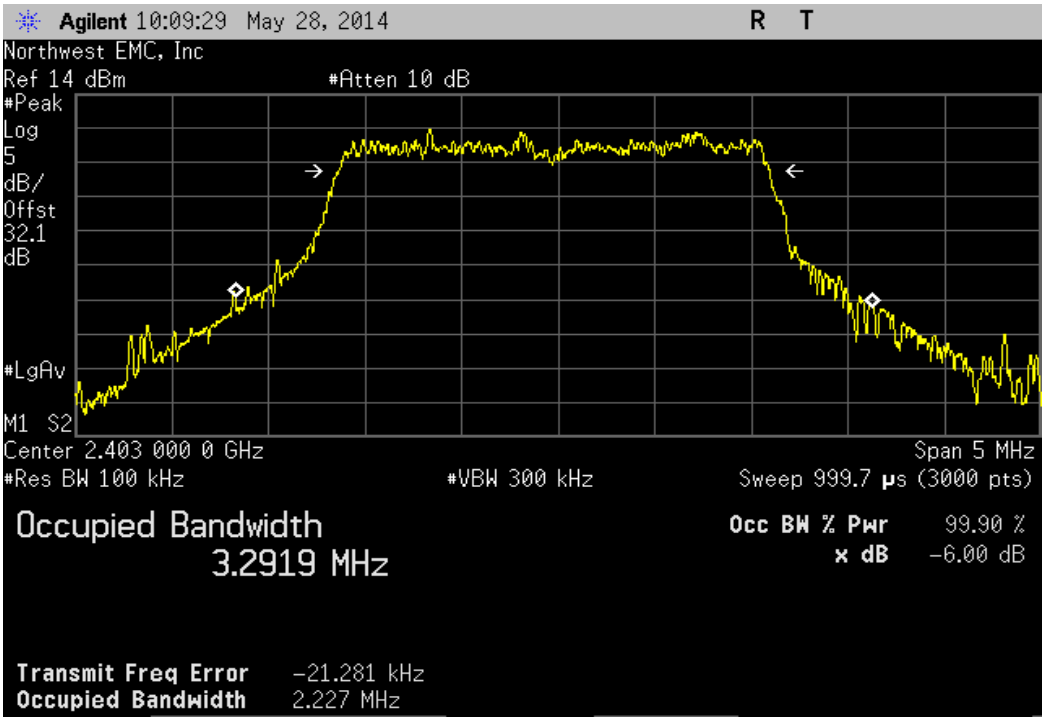
	Value	Limit	Result
Chain A			
2400 MHz - 2483.5 MHz Band			
2.5MHz Bandwidth			
3x3 Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 2403 MHz	2.227 MHz	> 500 kHz	Pass
Mid Channel 2435 MHz	2.251 MHz	> 500 kHz	Pass
High Channel 2470 MHz	2.253 MHz	> 500 kHz	Pass
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 2403 MHz	2.251 MHz	> 500 kHz	Pass
Mid Channel 2435 MHz	2.242 MHz	> 500 kHz	Pass
High Channel 2470 MHz	2.239 MHz	> 500 kHz	Pass
5MHz Bandwidth			
3x3 Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 2406 MHz	4.433 MHz	> 500 kHz	Pass
Mid Channel 2436 MHz	4.437 MHz	> 500 kHz	Pass
High Channel 2466 MHz	4.494 MHz	> 500 kHz	Pass
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 2406 MHz	4.483 MHz	> 500 kHz	Pass
Mid Channel 2436 MHz	4.483 MHz	> 500 kHz	Pass
High Channel 2466 MHz	4.449 MHz	> 500 kHz	Pass
10MHz Bandwidth			
3x3 Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 2409 MHz	8.887 MHz	> 500 kHz	Pass
Mid Channel 2439 MHz	8.907 MHz	> 500 kHz	Pass
High Channel 2464 MHz	8.879 MHz	> 500 kHz	Pass
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 2409 MHz	8.907 MHz	> 500 kHz	Pass
Mid Channel 2439 MHz	8.87 MHz	> 500 kHz	Pass
High Channel 2464 MHz	8.878 MHz	> 500 kHz	Pass
Chain B			
2400 MHz - 2483.5 MHz Band			
2.5MHz Bandwidth			
3x3 Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 2403 MHz	1.348 MHz	> 500 kHz	Pass
Mid Channel 2435 MHz	2.232 MHz	> 500 kHz	Pass
High Channel 2470 MHz	2.255 MHz	> 500 kHz	Pass
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 2403 MHz	2.251 MHz	> 500 kHz	Pass
Mid Channel 2435 MHz	2.251 MHz	> 500 kHz	Pass
High Channel 2470 MHz	2.263 MHz	> 500 kHz	Pass
5MHz Bandwidth			
3x3 Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 2406 MHz	4.458 MHz	> 500 kHz	Pass
Mid Channel 2436 MHz	4.456 MHz	> 500 kHz	Pass
High Channel 2466 MHz	4.437 MHz	> 500 kHz	Pass
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 2406 MHz	4.453 MHz	> 500 kHz	Pass
Mid Channel 2436 MHz	4.449 MHz	> 500 kHz	Pass
High Channel 2466 MHz	4.451 MHz	> 500 kHz	Pass
10MHz Bandwidth			
3x3 Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 2409 MHz	8.879 MHz	> 500 kHz	Pass
Mid Channel 2439 MHz	8.891 MHz	> 500 kHz	Pass
High Channel 2464 MHz	8.896 MHz	> 500 kHz	Pass
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 2409 MHz	8.888 MHz	> 500 kHz	Pass
Mid Channel 2439 MHz	8.889 MHz	> 500 kHz	Pass
High Channel 2464 MHz	8.843 MHz	> 500 kHz	Pass
Chain C			
2400 MHz - 2483.5 MHz Band			
2.5MHz Bandwidth			
3x3 Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 2403 MHz	2.238 MHz	> 500 kHz	Pass
Mid Channel 2435 MHz	2.234 MHz	> 500 kHz	Pass
High Channel 2470 MHz	2.25 MHz	> 500 kHz	Pass
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 2403 MHz	2.243 MHz	> 500 kHz	Pass
Mid Channel 2435 MHz	2.236 MHz	> 500 kHz	Pass
High Channel 2470 MHz	2.233 MHz	> 500 kHz	Pass

5MHz Bandwidth				
	3x3 Modulation Type, BPSK, Coding Rate, 1/2.			
	Low Channel 2406 MHz	4.466 MHz	> 500 kHz	Pass
	Mid Channel 2436 MHz	4.462 MHz	> 500 kHz	Pass
	High Channel 2466 MHz	4.465 MHz	> 500 kHz	Pass
	3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.			
	Low Channel 2406 MHz	4.438 MHz	> 500 kHz	Pass
	Mid Channel 2436 MHz	4.435 MHz	> 500 kHz	Pass
	High Channel 2466 MHz	4.45 MHz	> 500 kHz	Pass
10MHz Bandwidth				
	3x3 Modulation Type, BPSK, Coding Rate, 1/2.			
	Low Channel 2409 MHz	8.897 MHz	> 500 kHz	Pass
	Mid Channel 2439 MHz	8.931 MHz	> 500 kHz	Pass
	High Channel 2464 MHz	8.877 MHz	> 500 kHz	Pass
	3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.			
	Low Channel 2409 MHz	8.903 MHz	> 500 kHz	Pass
	Mid Channel 2439 MHz	8.897 MHz	> 500 kHz	Pass
	High Channel 2464 MHz	8.868 MHz	> 500 kHz	Pass

OCCUPIED BANDWIDTH - 3x3 MIMO

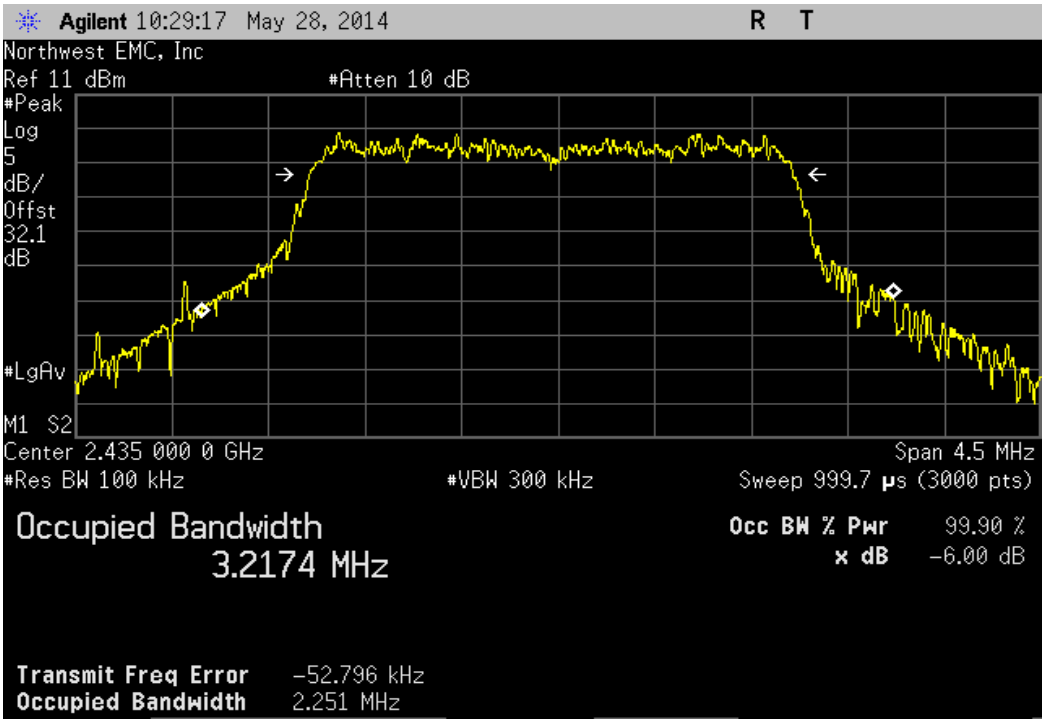
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2403 MHz

				Value	Limit	Result
				2.227 MHz	> 500 kHz	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2435 MHz

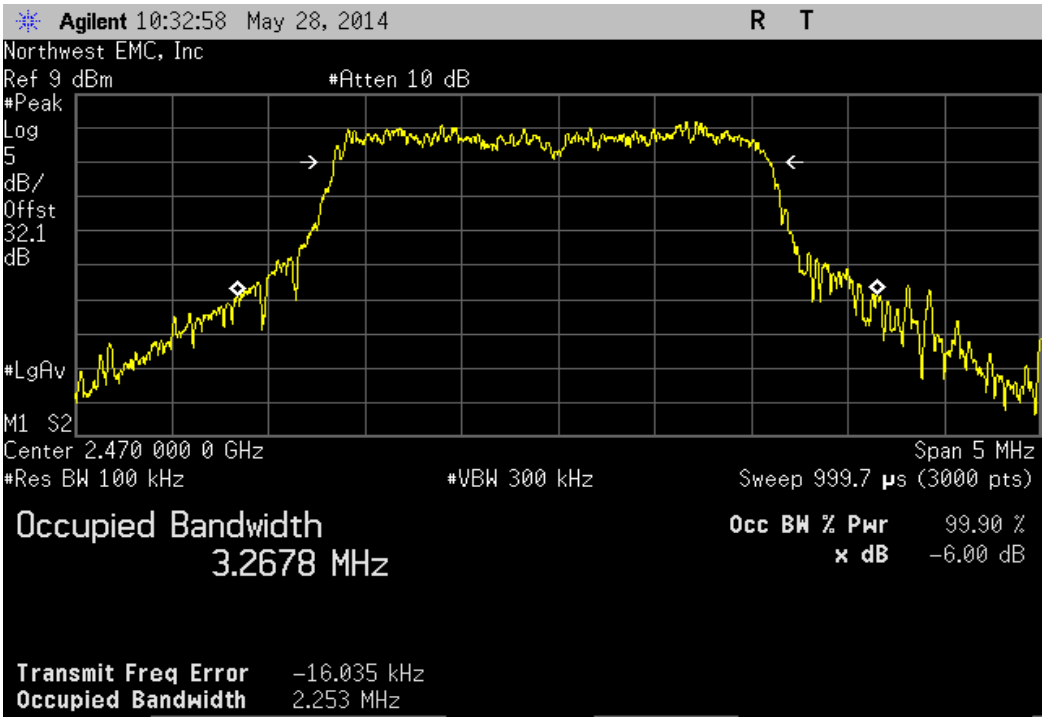
				Value	Limit	Result
				2.251 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 3x3 MIMO

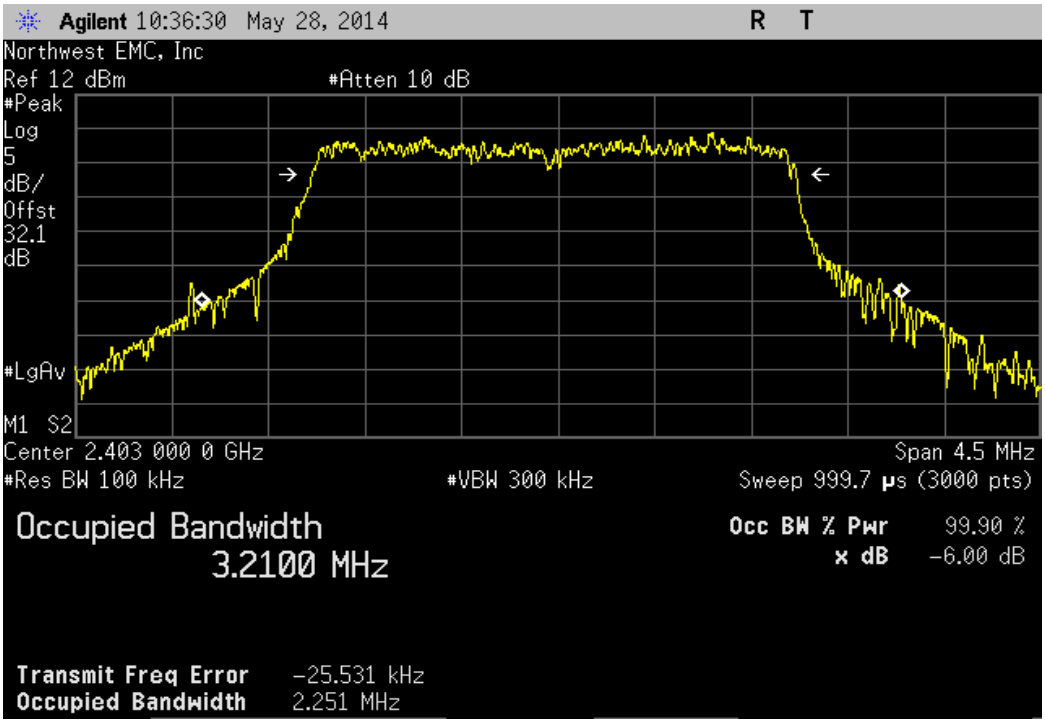
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2470 MHz

				Value	Limit	Result
				2.253 MHz	> 500 kHz	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2403 MHz

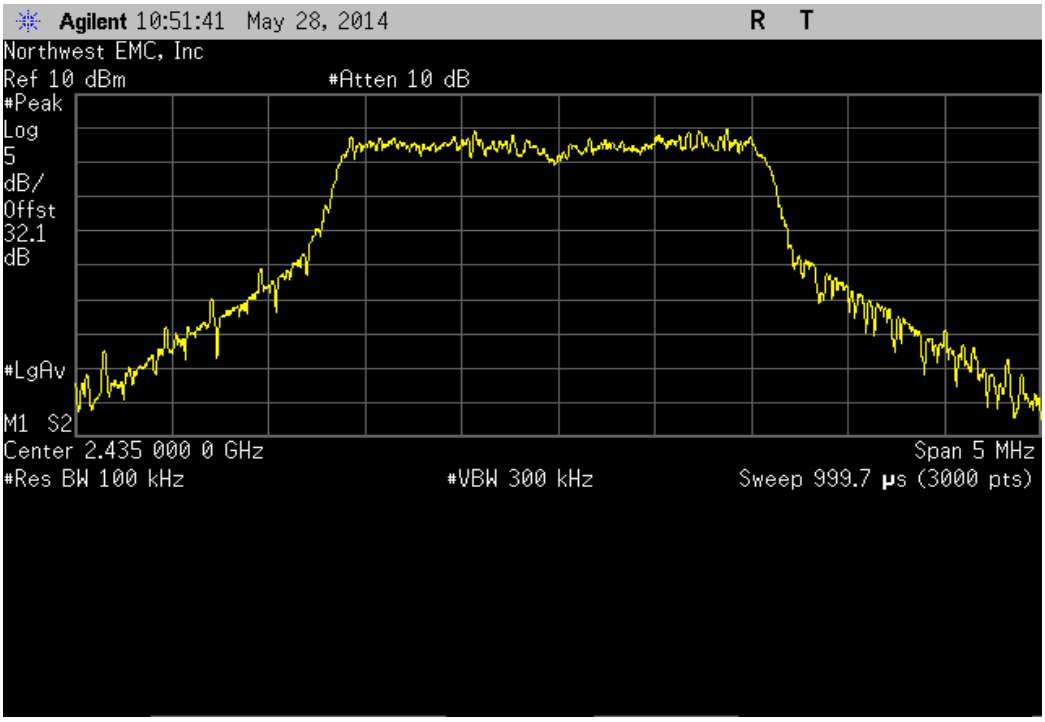
				Value	Limit	Result
				2.251 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 3x3 MIMO

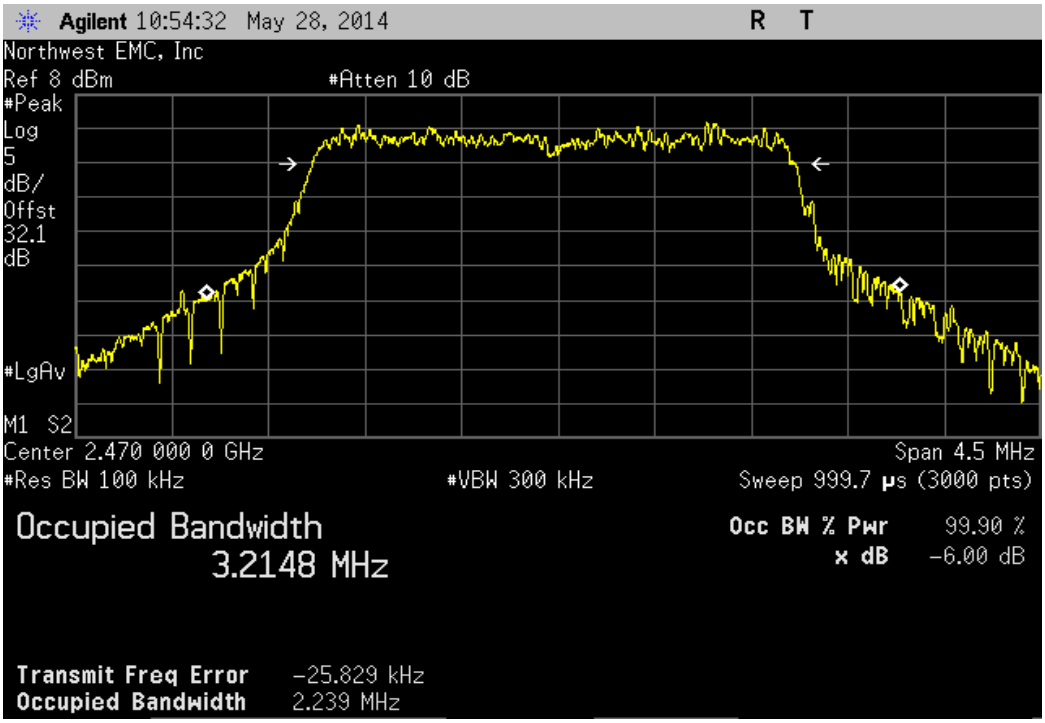
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2435 MHz

				Value	Limit	Result
				2.242 MHz	> 500 kHz	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2470 MHz

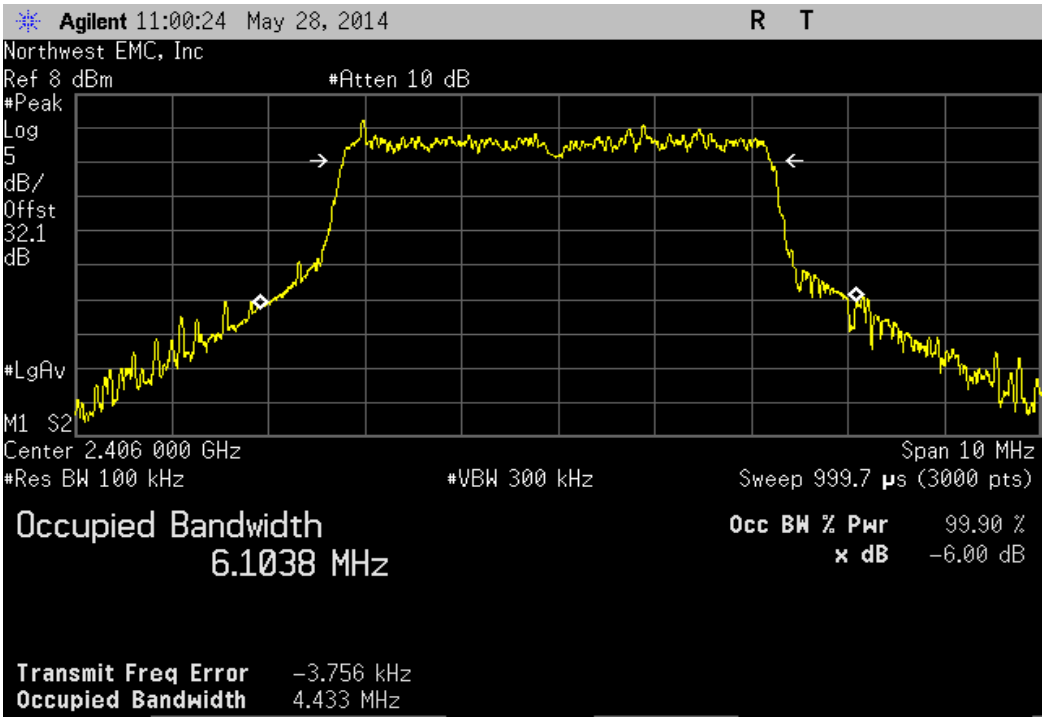
				Value	Limit	Result
				2.239 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 3x3 MIMO

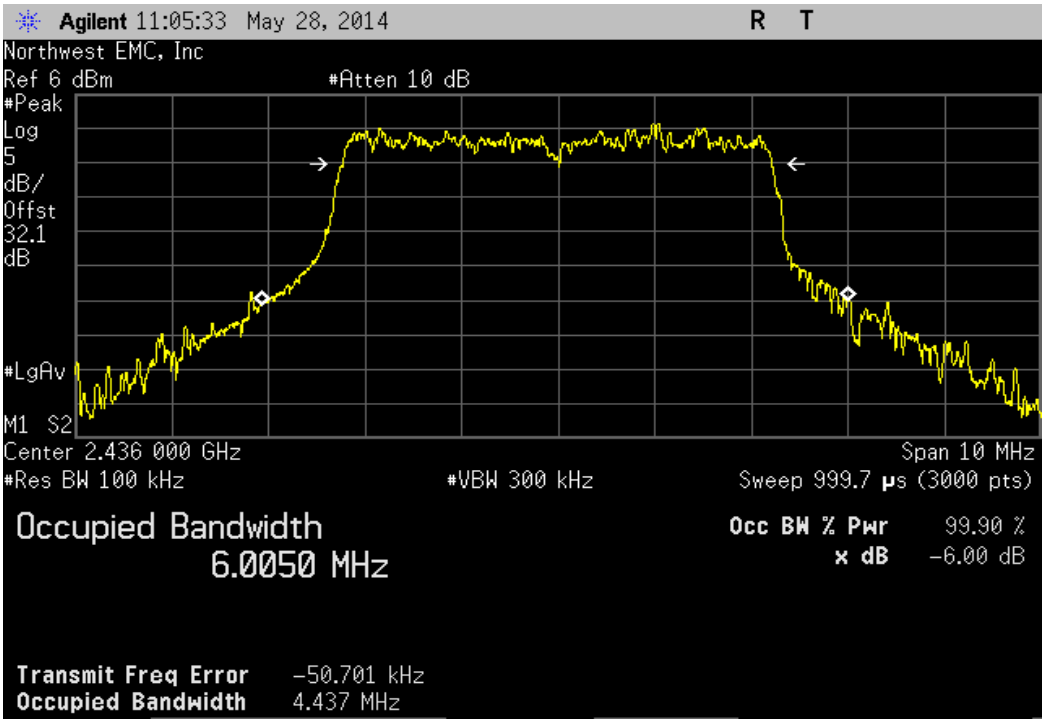
Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2406 MHz

				Value	Limit	Result
				4.433 MHz	> 500 kHz	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2436 MHz

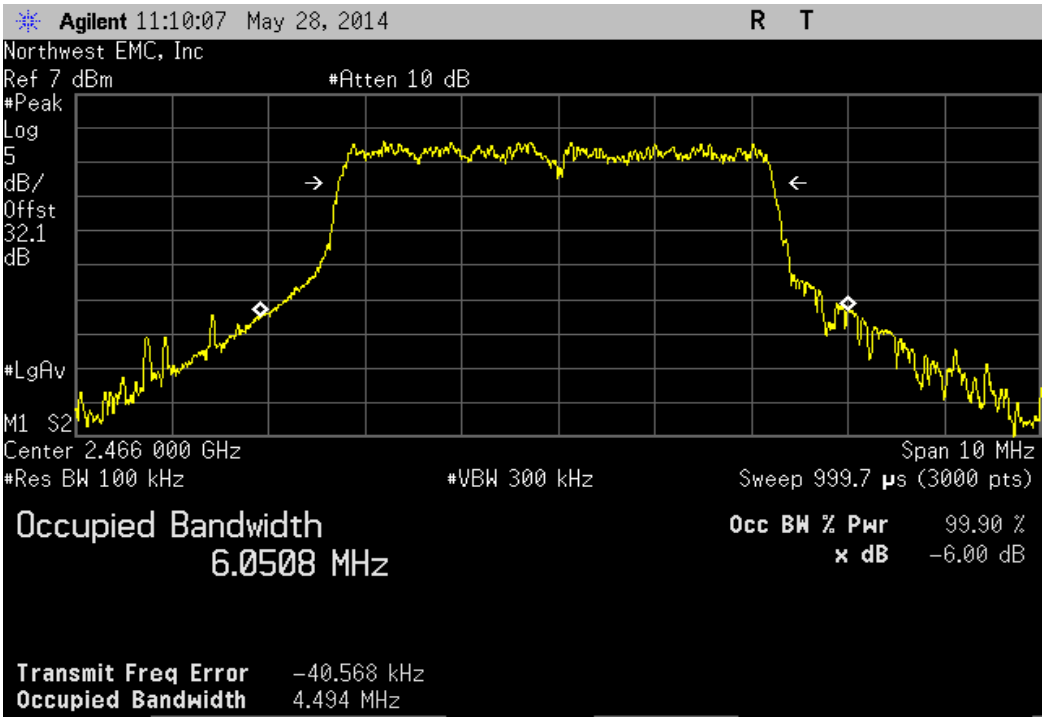
				Value	Limit	Result
				4.437 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 3x3 MIMO

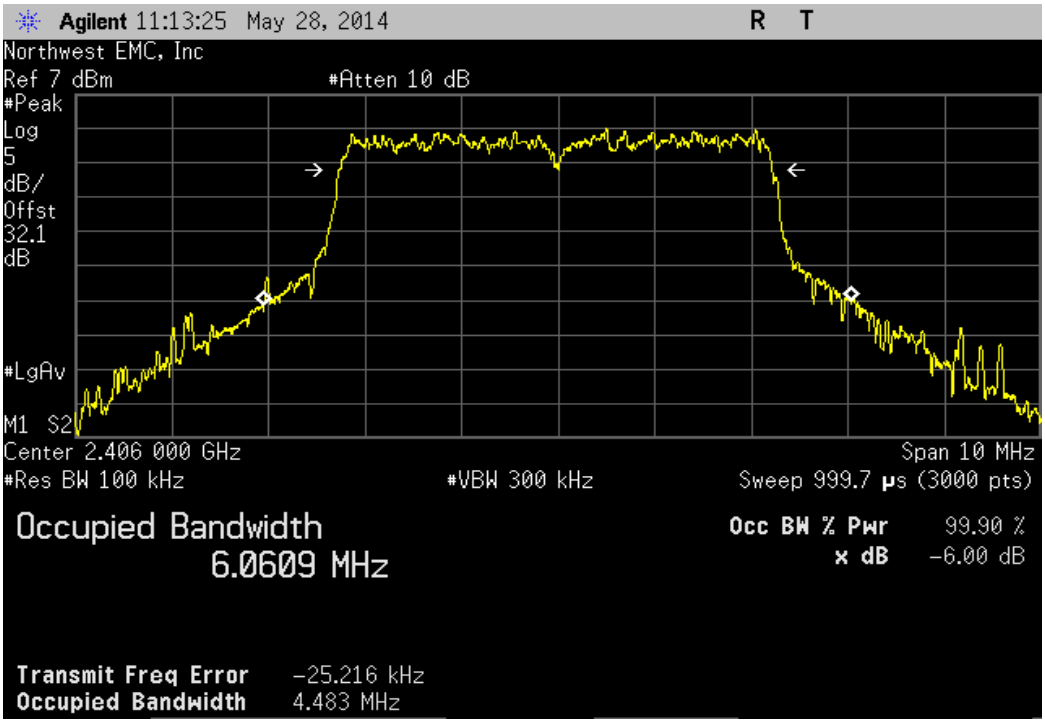
Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2466 MHz

				Value	Limit	Result
				4.494 MHz	> 500 kHz	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2406 MHz

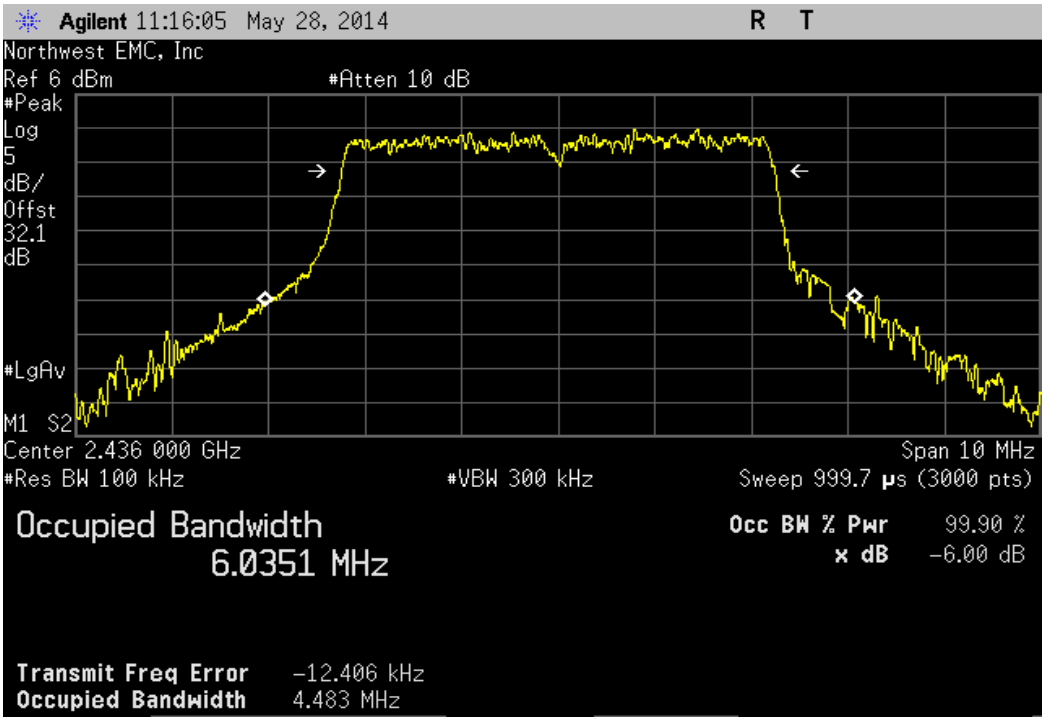
				Value	Limit	Result
				4.483 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 3x3 MIMO

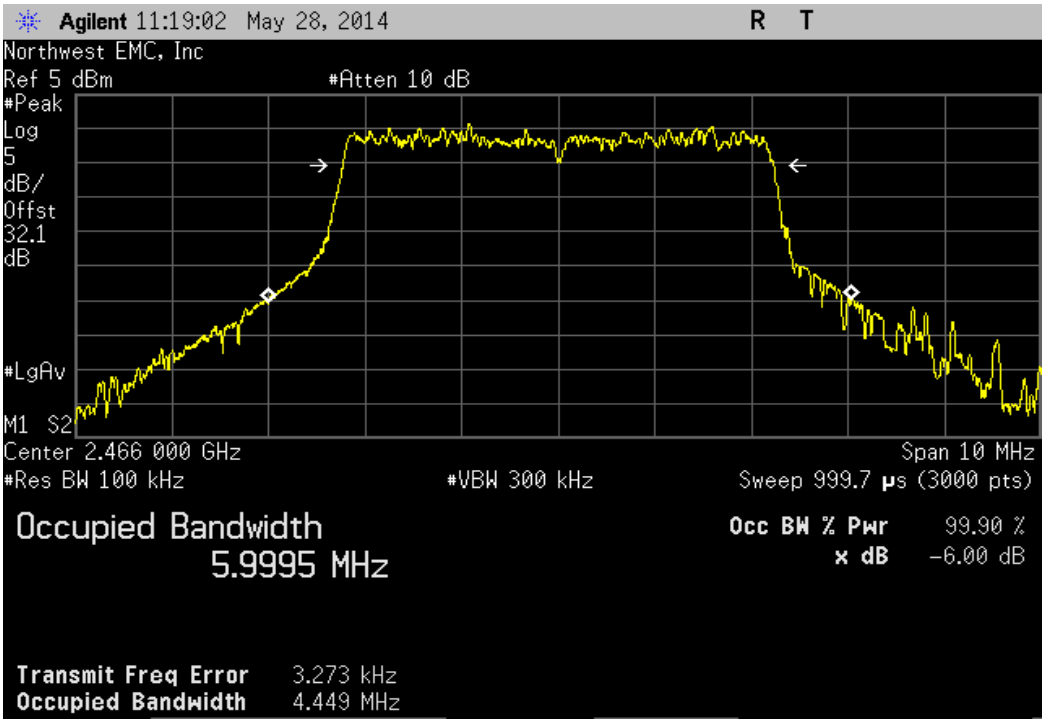
Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2436 MHz

				Value	Limit	Result
				4.483 MHz	> 500 kHz	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2466 MHz

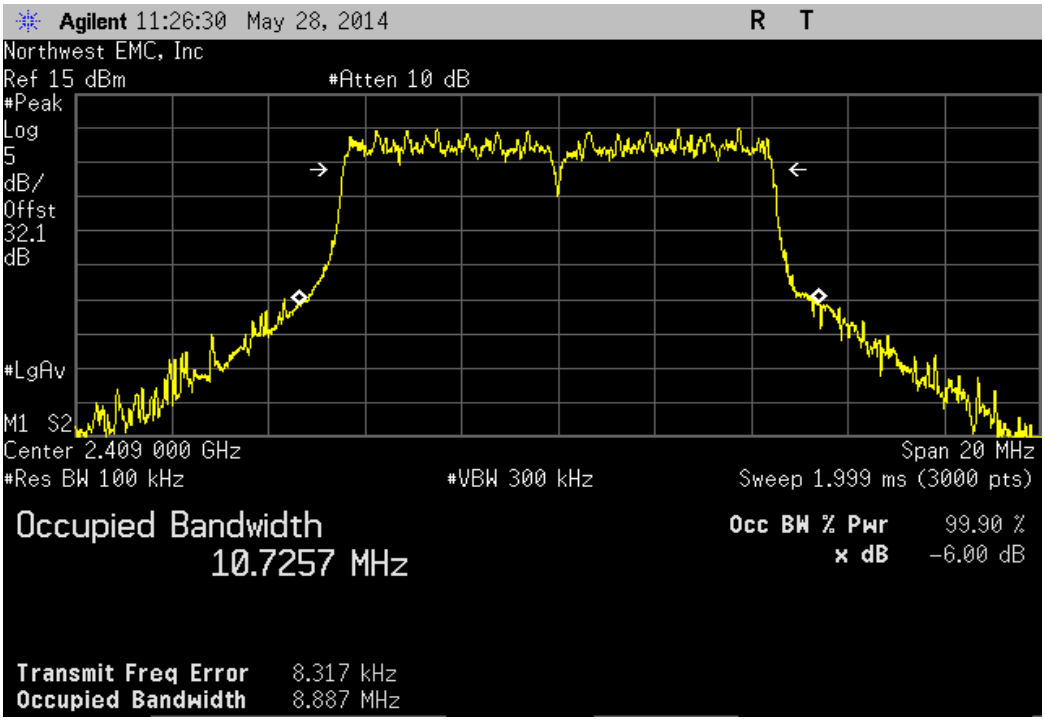
				Value	Limit	Result
				4.449 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 3x3 MIMO

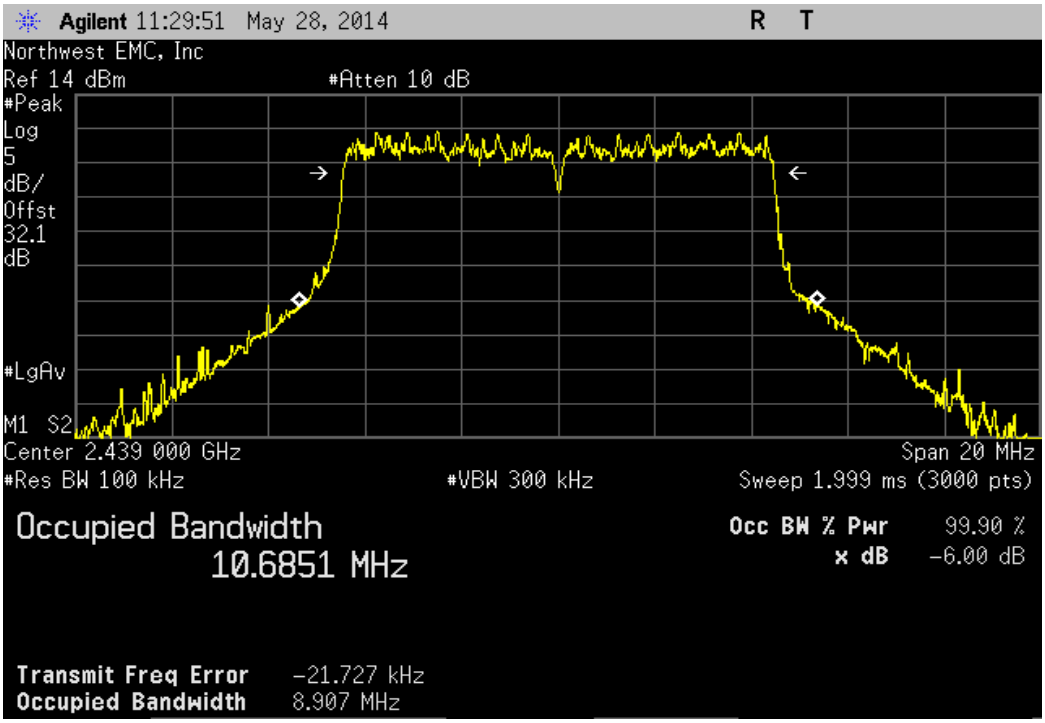
Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2409 MHz

				Value	Limit	Result
				8.887 MHz	> 500 kHz	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2439 MHz

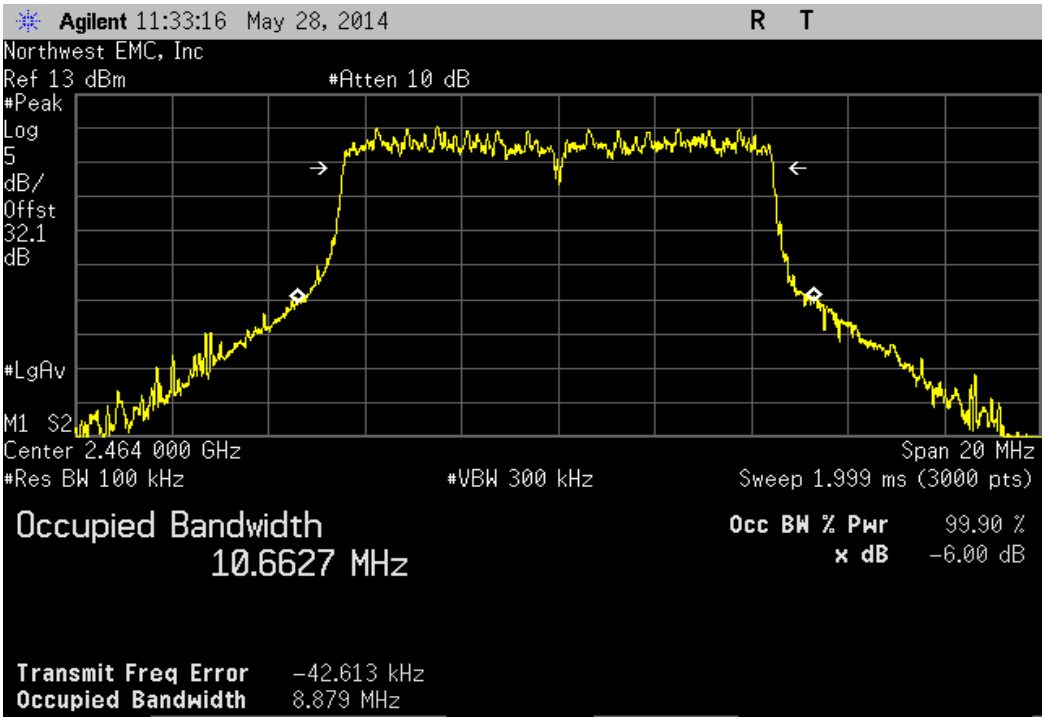
				Value	Limit	Result
				8.907 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 3x3 MIMO

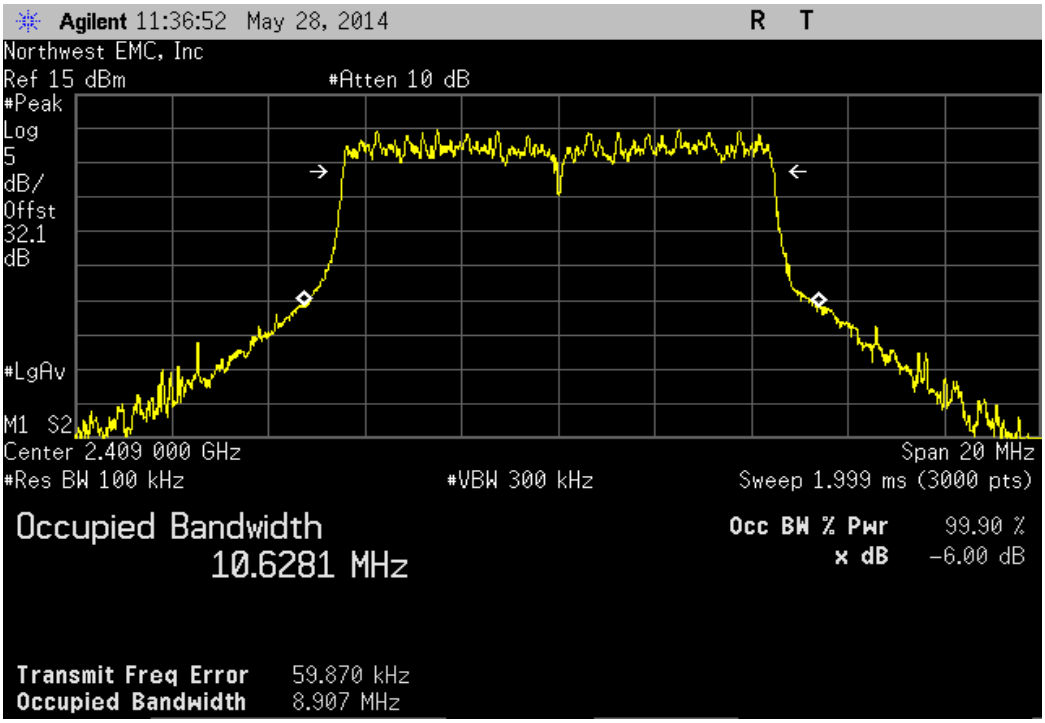
Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2464 MHz

				Value	Limit	Result
				8.879 MHz	> 500 kHz	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2409 MHz

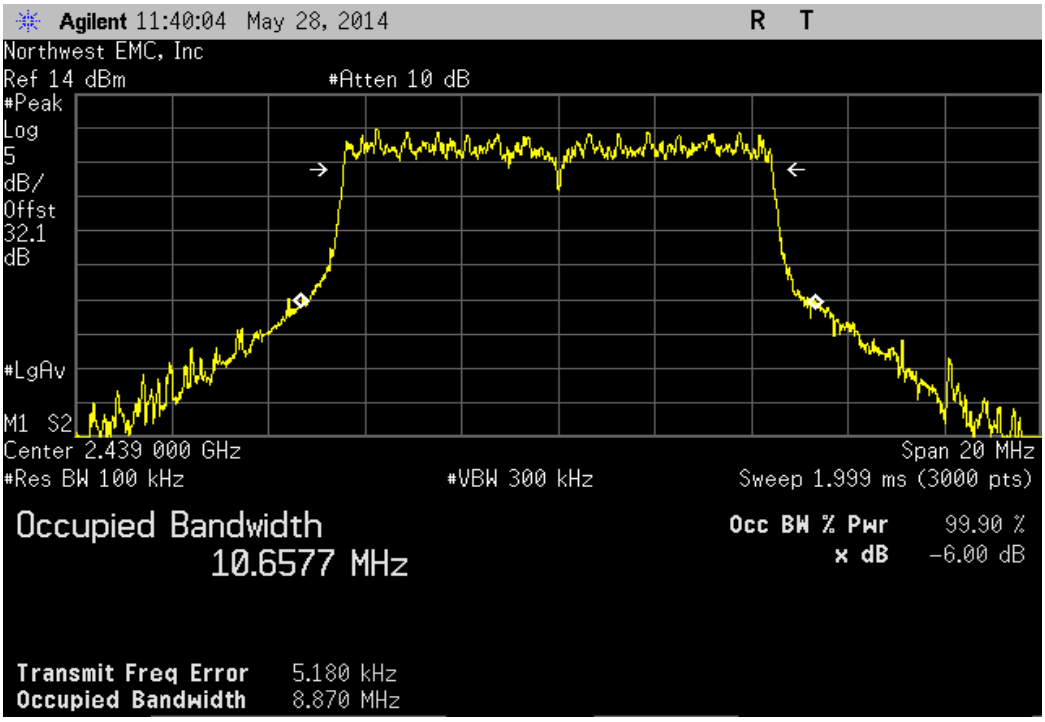
				Value	Limit	Result
				8.907 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 3x3 MIMO

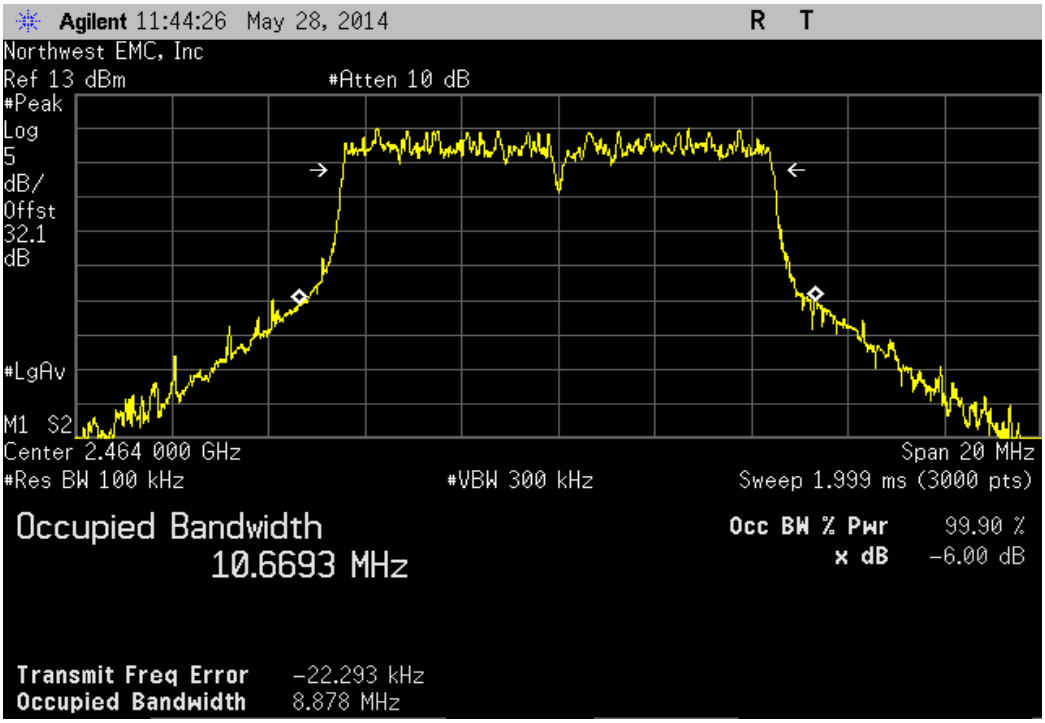
Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2439 MHz

				Value	Limit	Result
				8.87 MHz	> 500 kHz	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2464 MHz

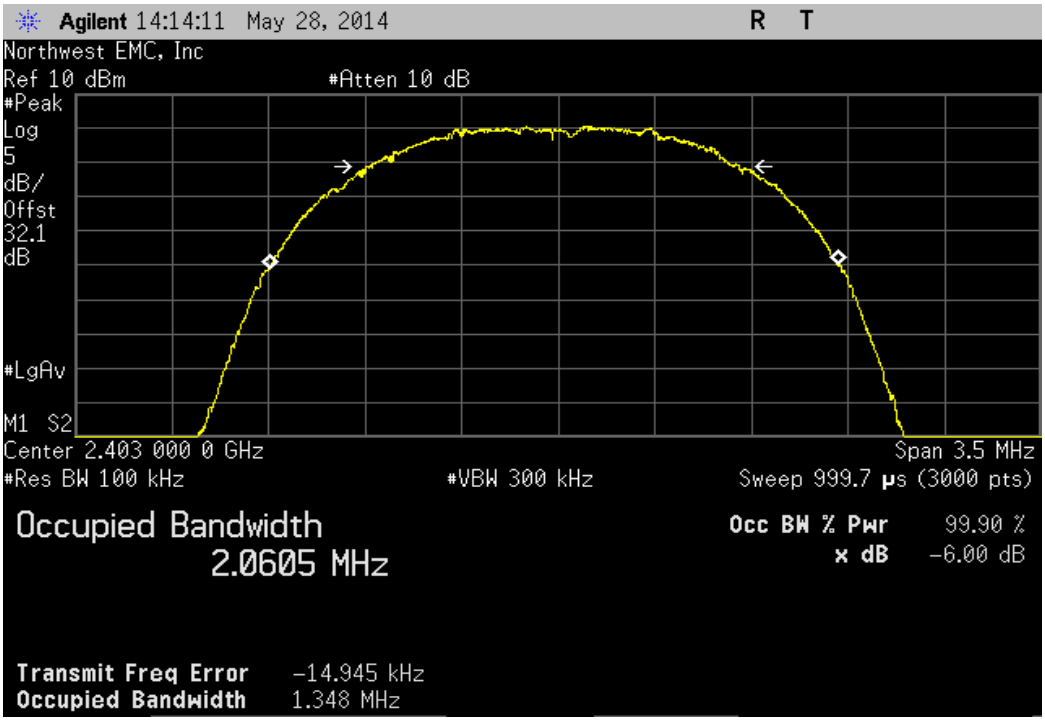
				Value	Limit	Result
				8.878 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 3x3 MIMO

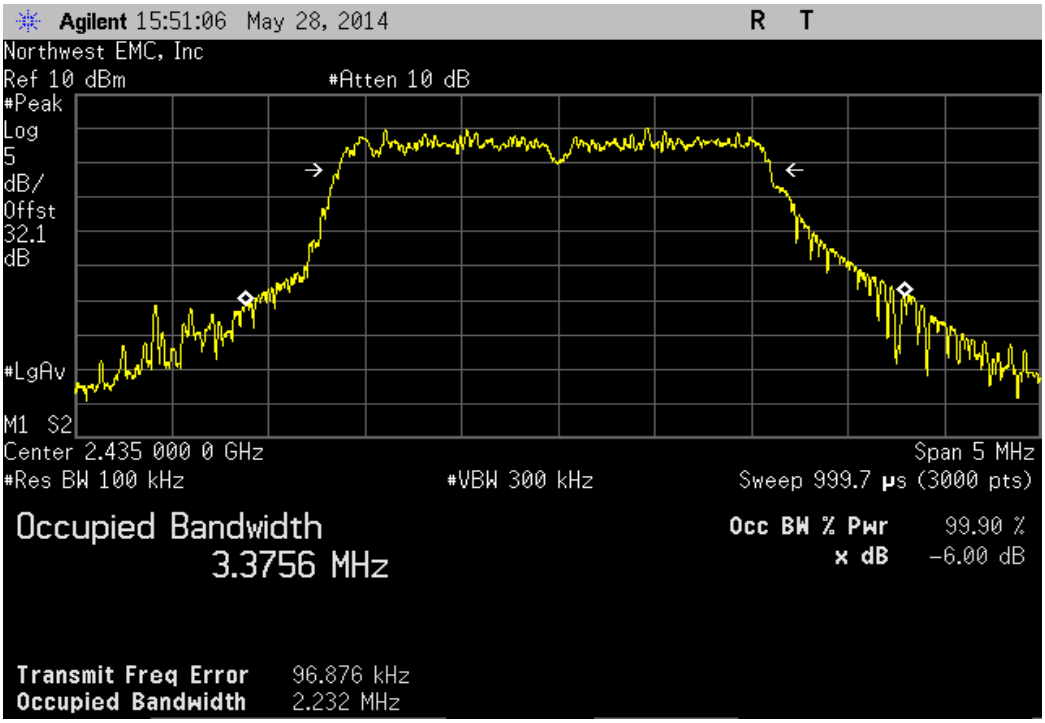
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2403 MHz

				Value	Limit	Result
				1.348 MHz	> 500 kHz	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2435 MHz

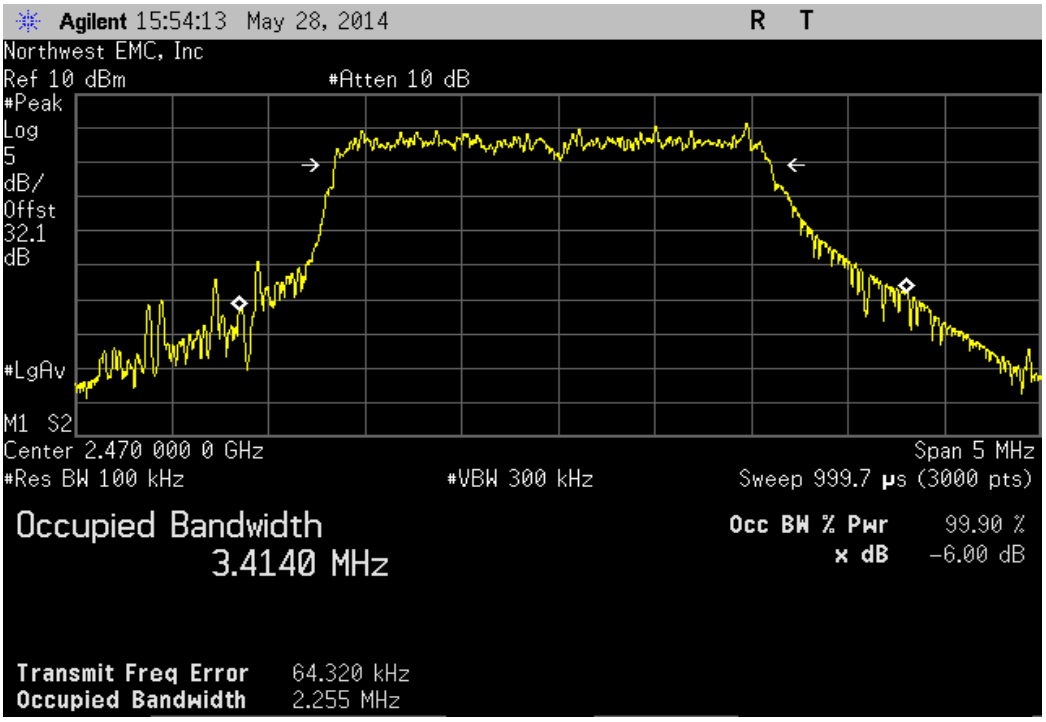
				Value	Limit	Result
				2.232 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 3x3 MIMO

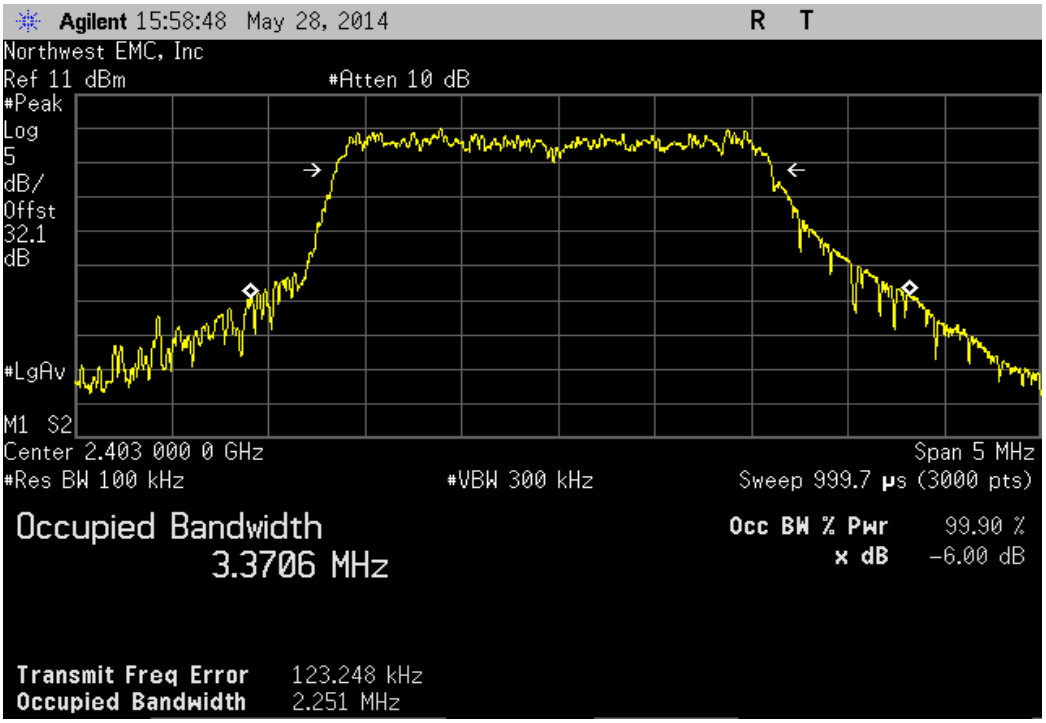
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2470 MHz

				Value	Limit	Result
				2.255 MHz	> 500 kHz	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2403 MHz

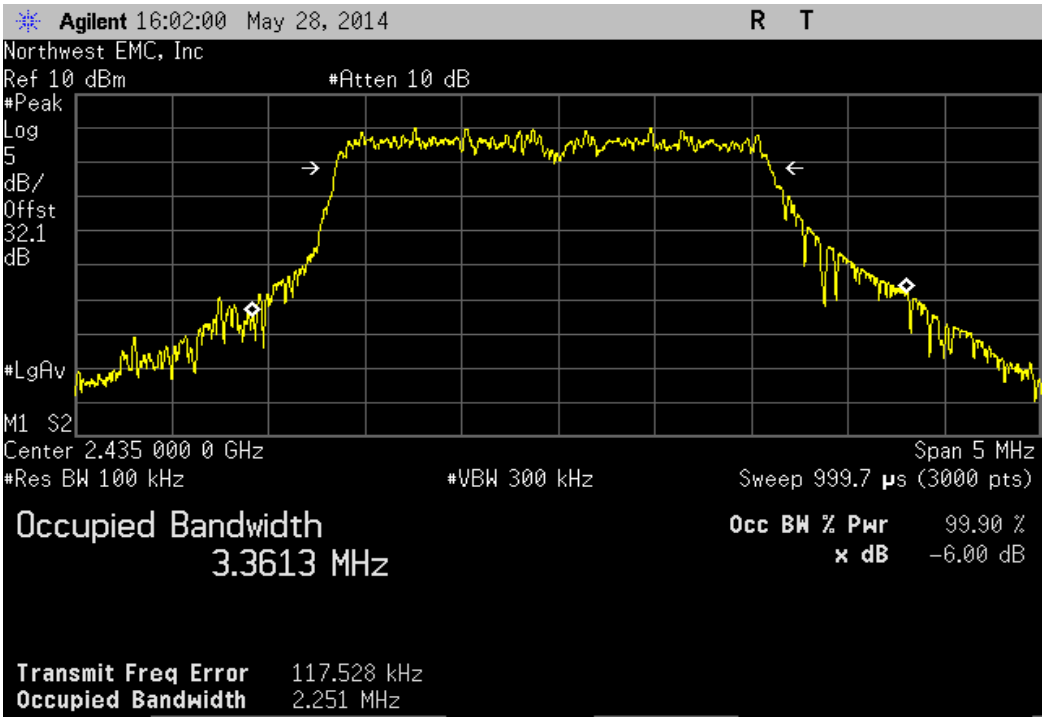
				Value	Limit	Result
				2.251 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 3x3 MIMO

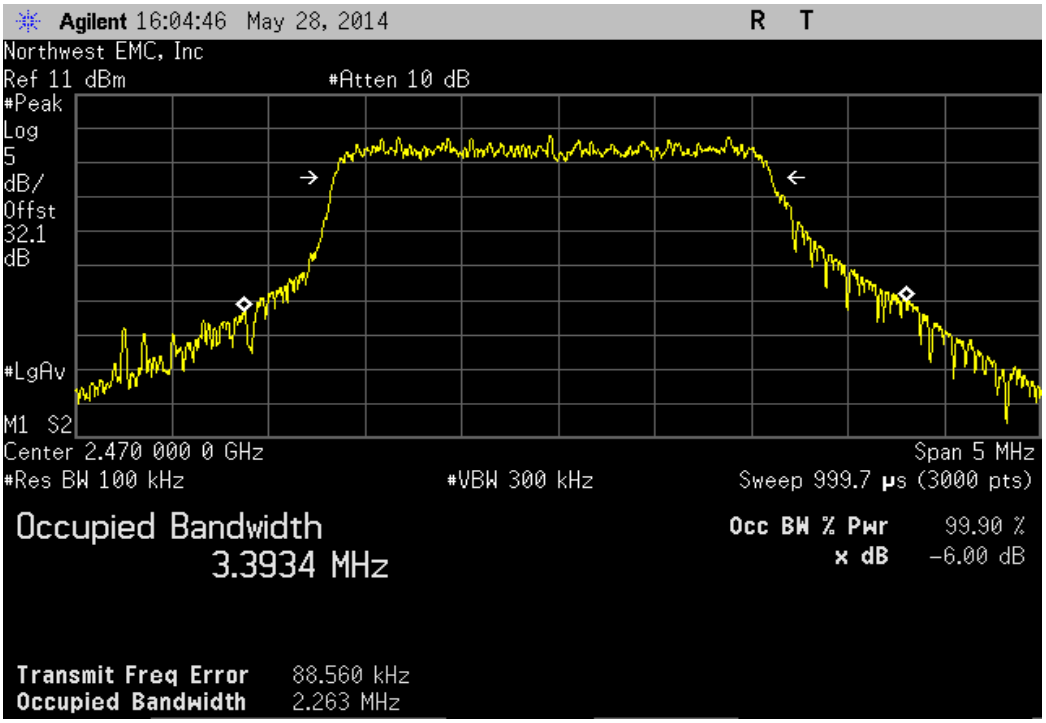
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2435 MHz

				Value	Limit	Result
				2.251 MHz	> 500 kHz	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2470 MHz

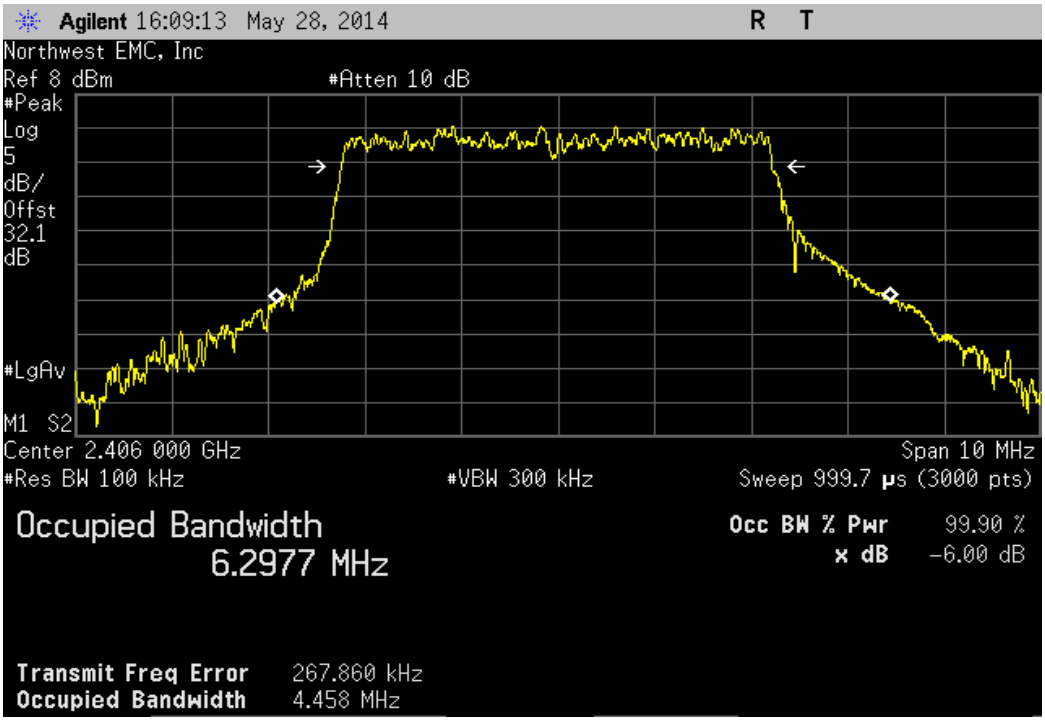
				Value	Limit	Result
				2.263 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 3x3 MIMO

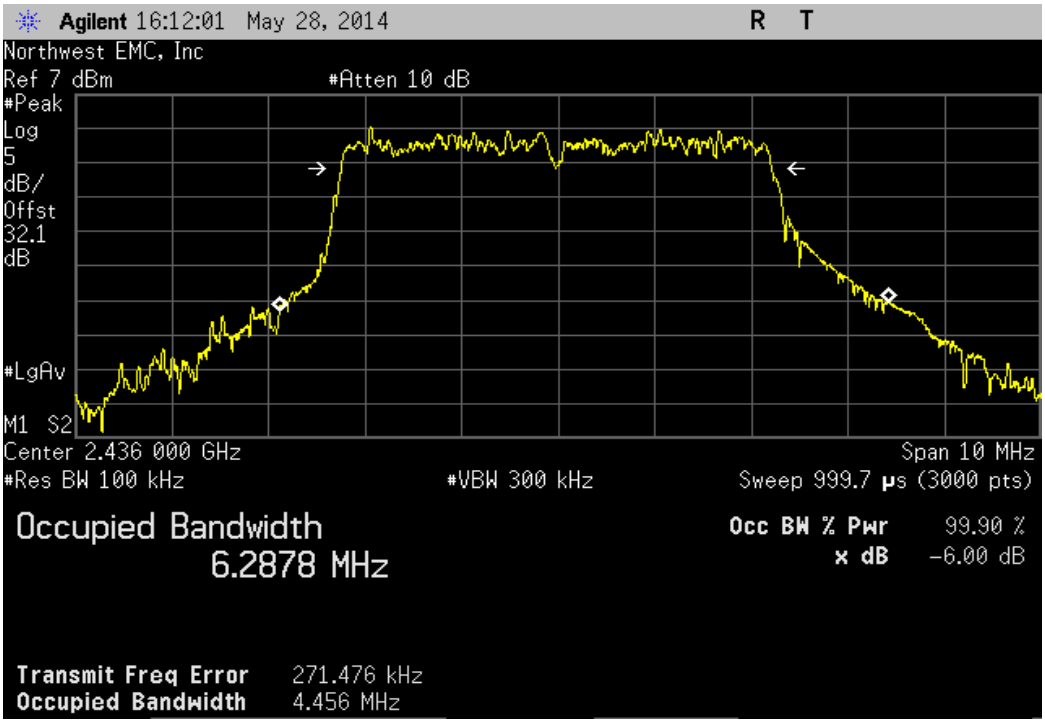
Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2406 MHz

				Value	Limit	Result
				4.458 MHz	> 500 kHz	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2436 MHz

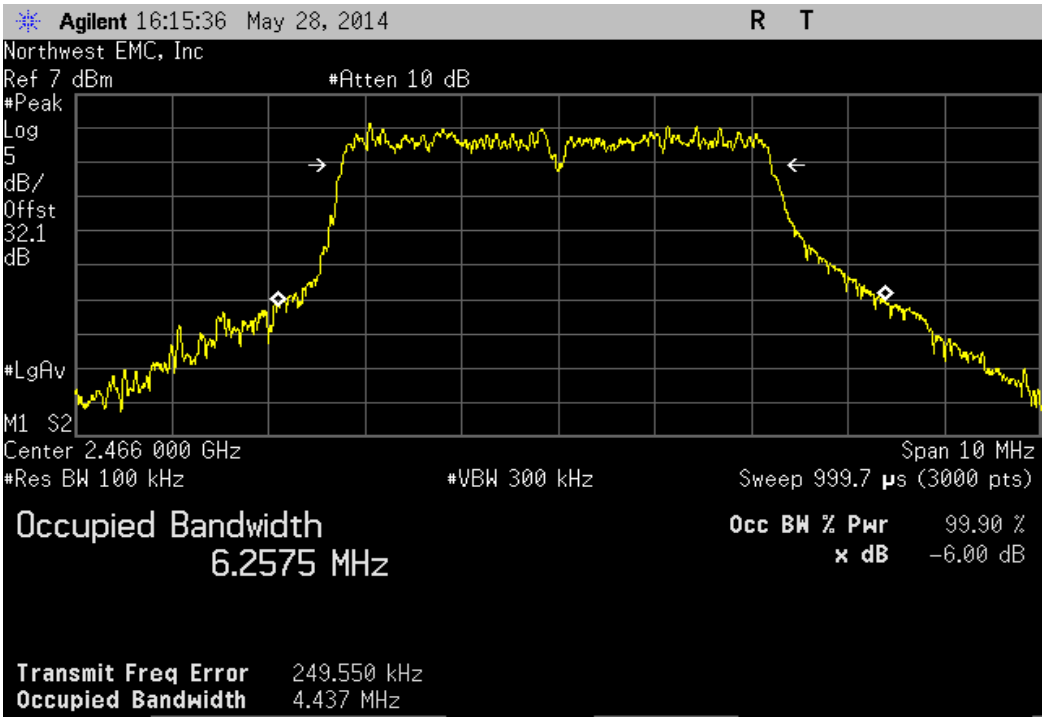
				Value	Limit	Result
				4.456 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 3x3 MIMO

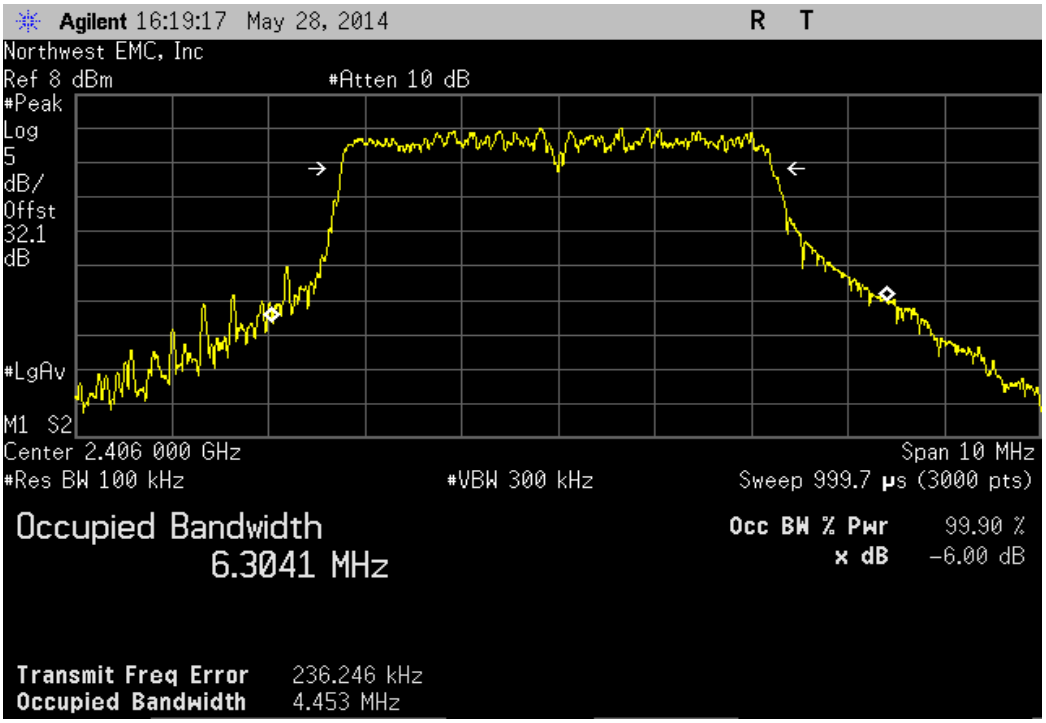
Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2466 MHz

				Value	Limit	Result
				4.437 MHz	> 500 kHz	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2406 MHz

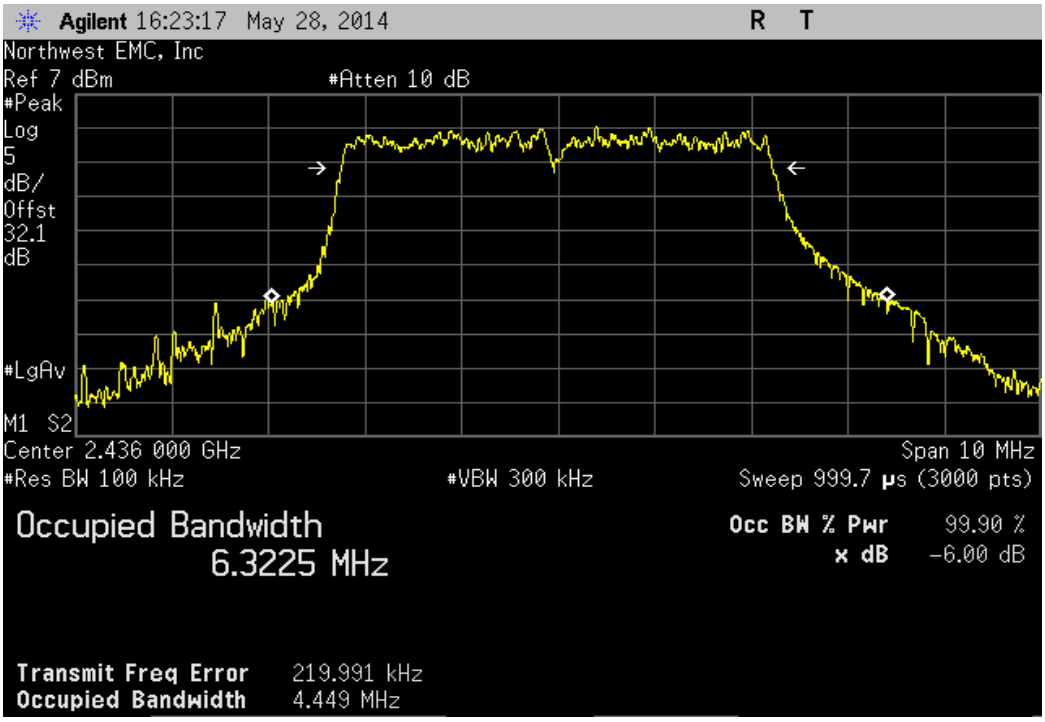
				Value	Limit	Result
				4.453 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 3x3 MIMO

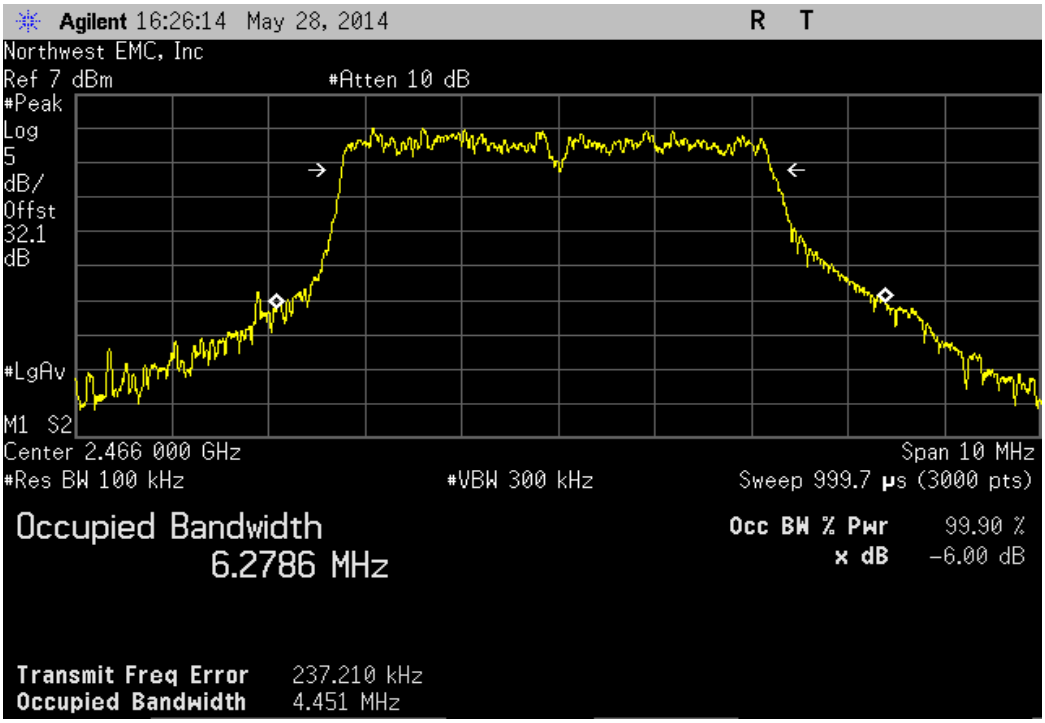
Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2436 MHz

				Value	Limit	Result
				4.449 MHz	> 500 kHz	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2466 MHz

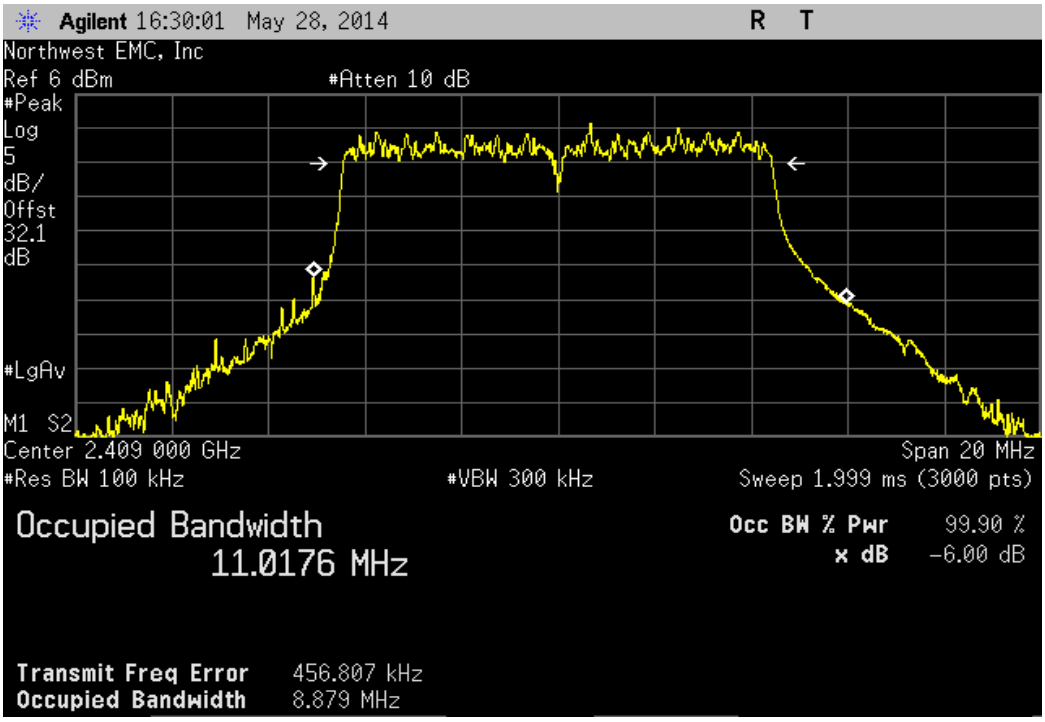
				Value	Limit	Result
				4.451 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 3x3 MIMO

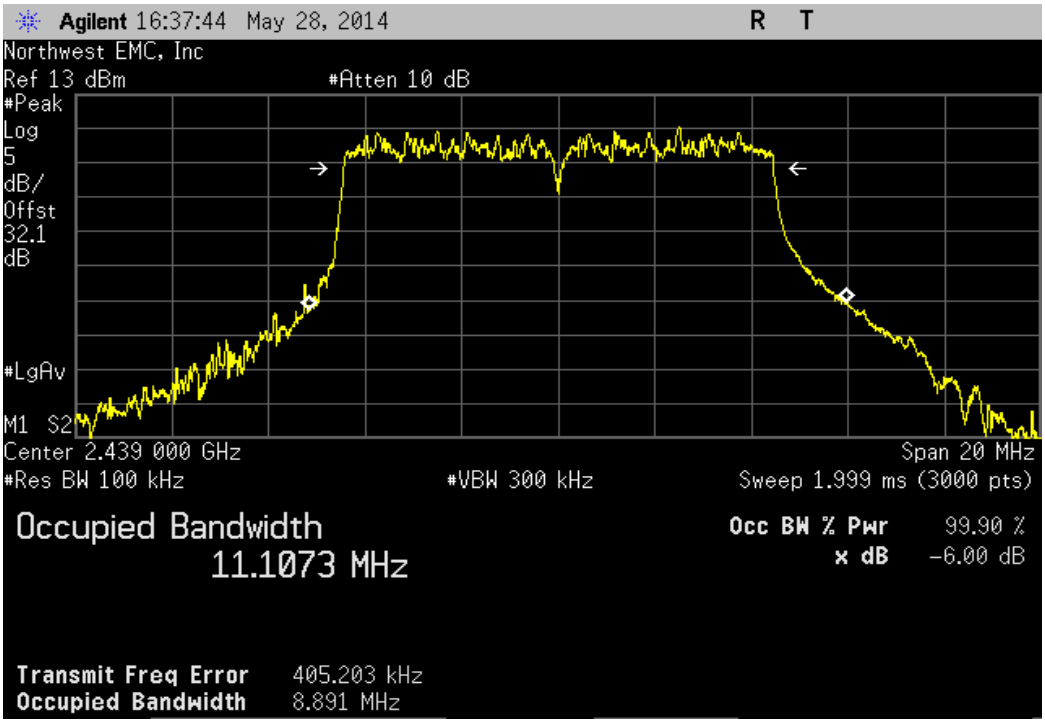
Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2409 MHz

				Value	Limit	Result
				8.879 MHz	> 500 kHz	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2439 MHz

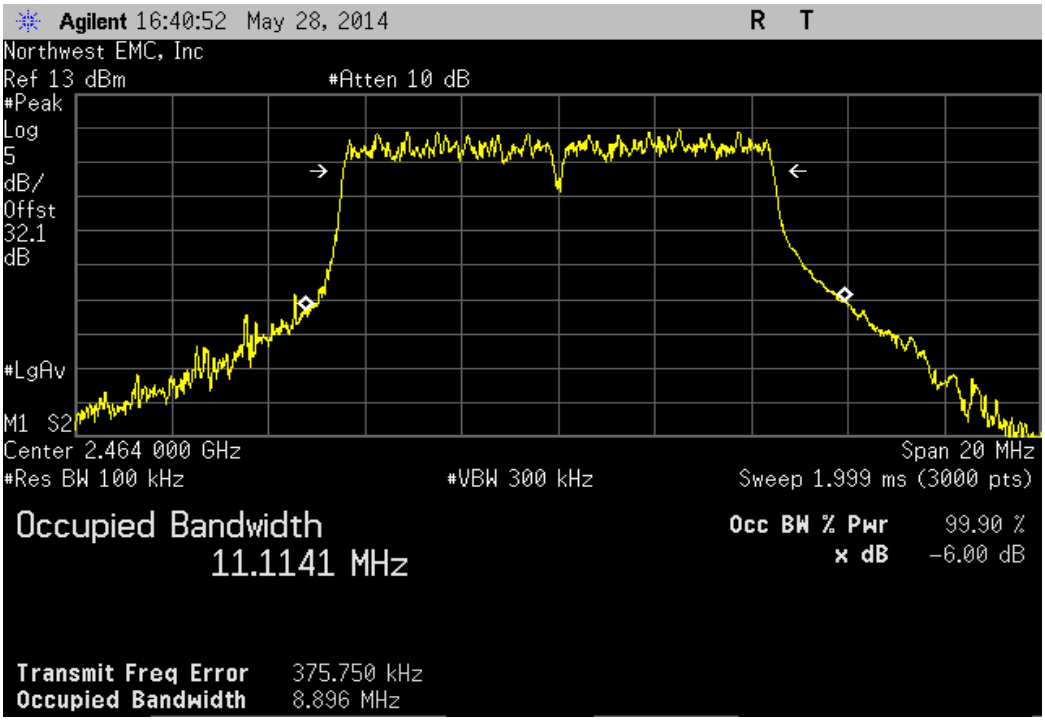
				Value	Limit	Result
				8.891 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 3x3 MIMO

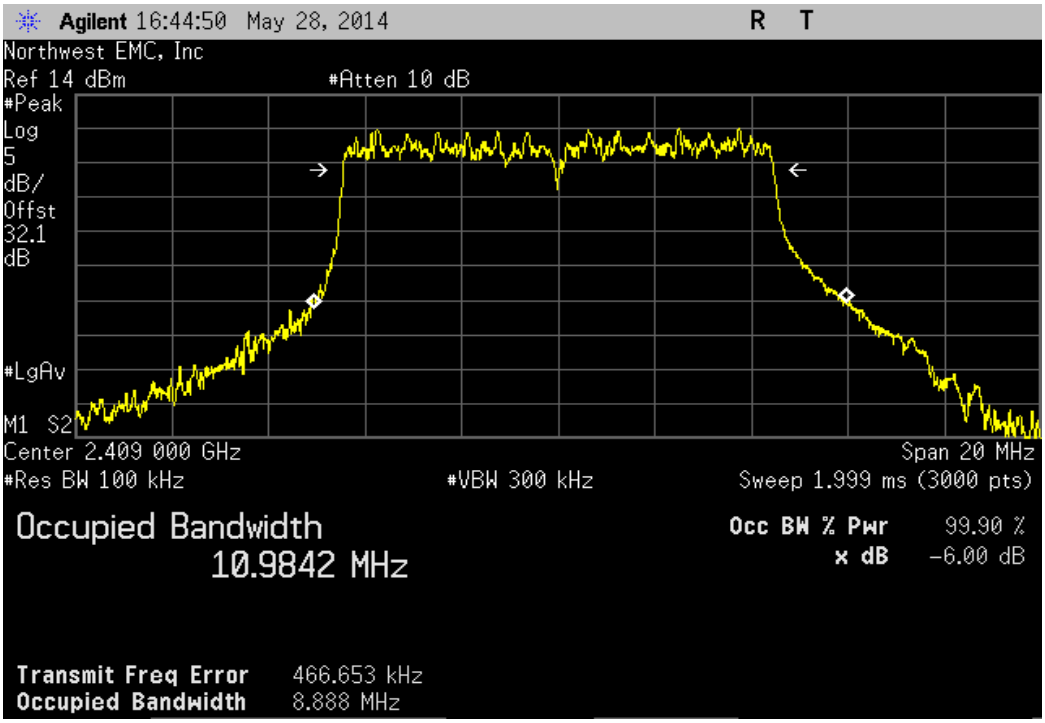
Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2464 MHz

				Value	Limit	Result
				8.896 MHz	> 500 kHz	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2409 MHz

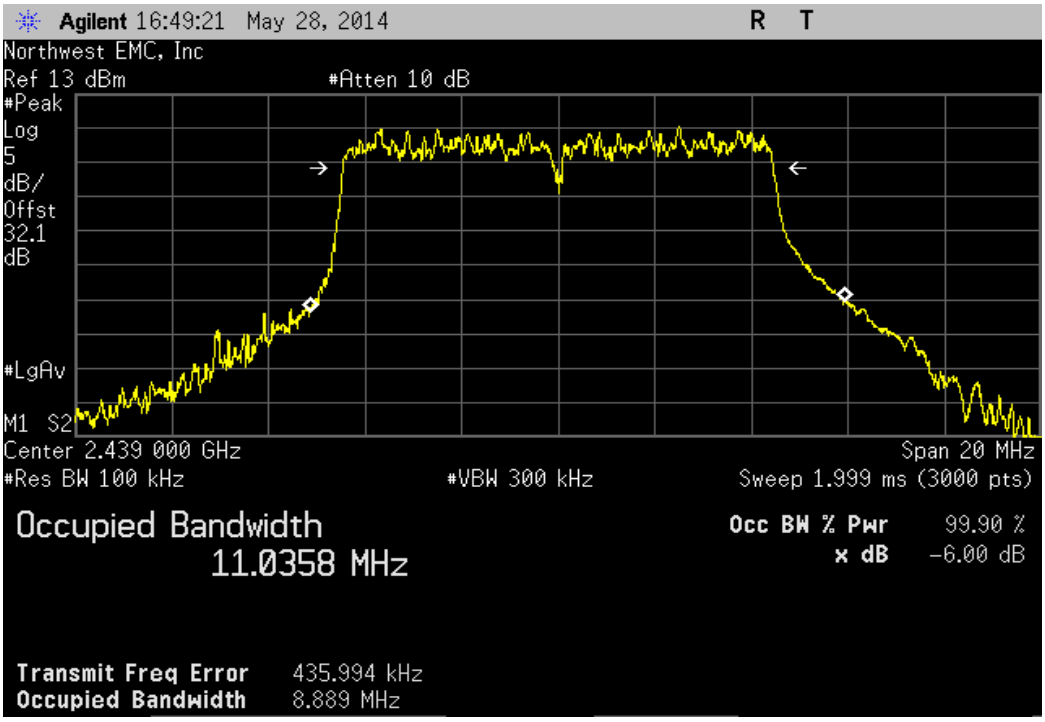
				Value	Limit	Result
				8.888 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 3x3 MIMO

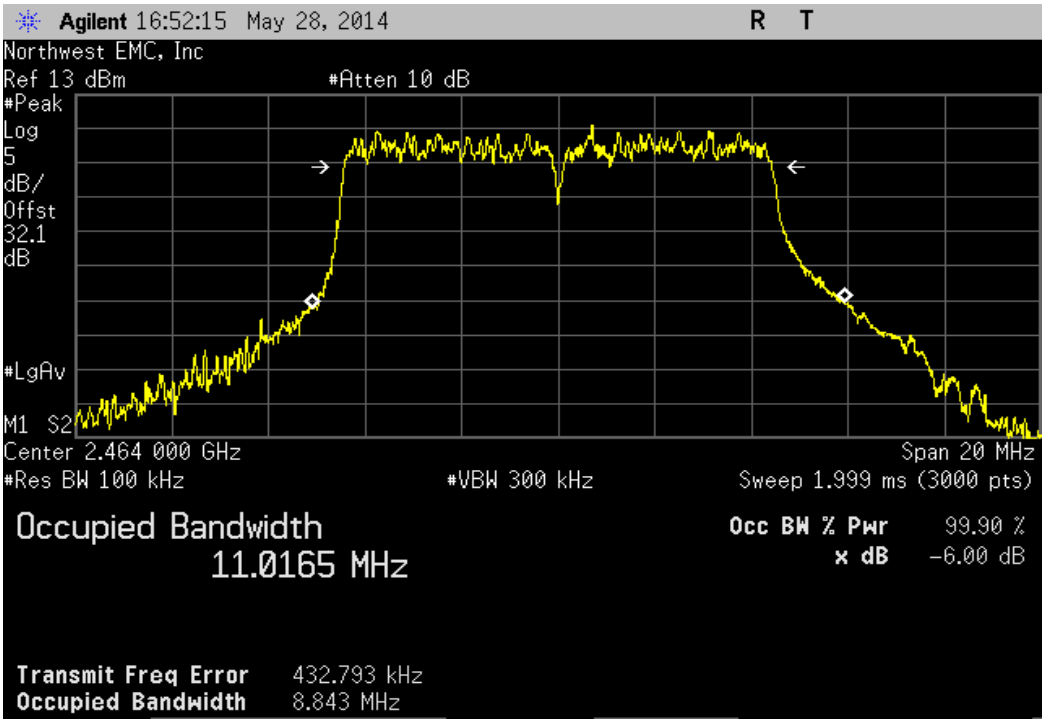
Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2439 MHz

				Value	Limit	Result
				8.889 MHz	> 500 kHz	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2464 MHz

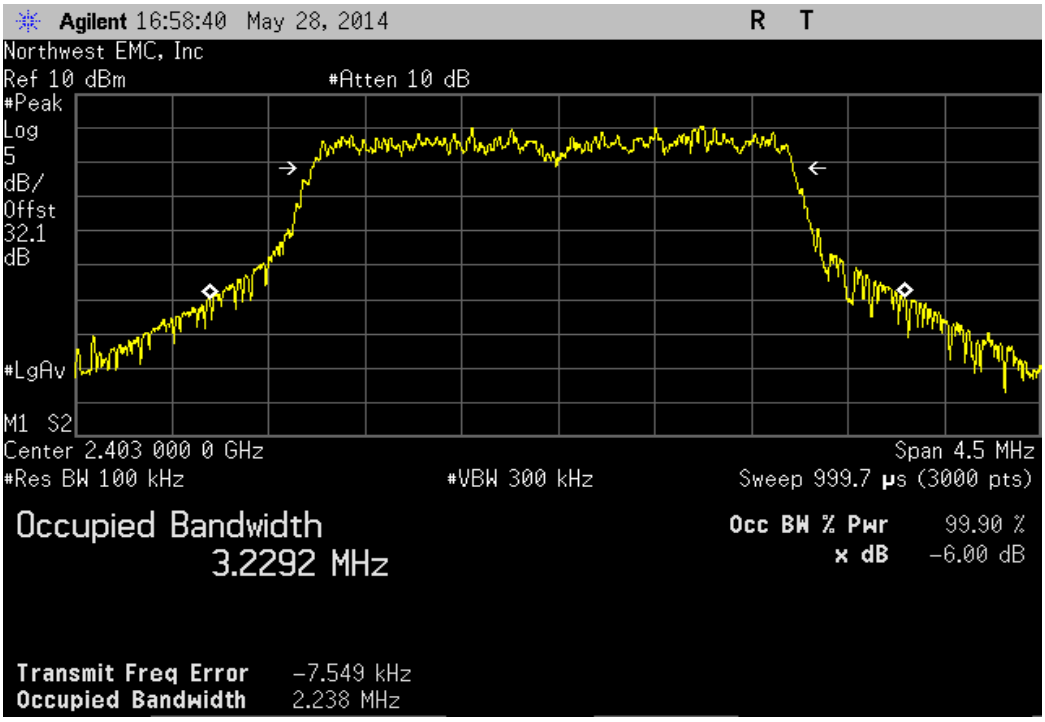
				Value	Limit	Result
				8.843 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 3x3 MIMO

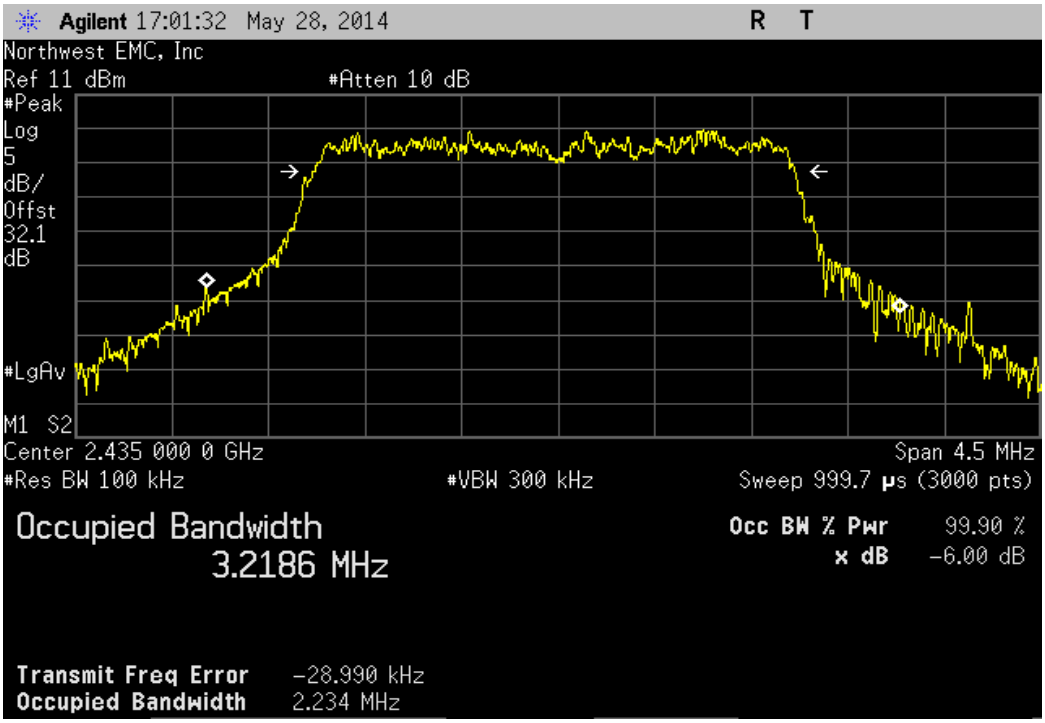
Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2403 MHz

				Value	Limit	Result
				2.238 MHz	> 500 kHz	Pass



Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2435 MHz

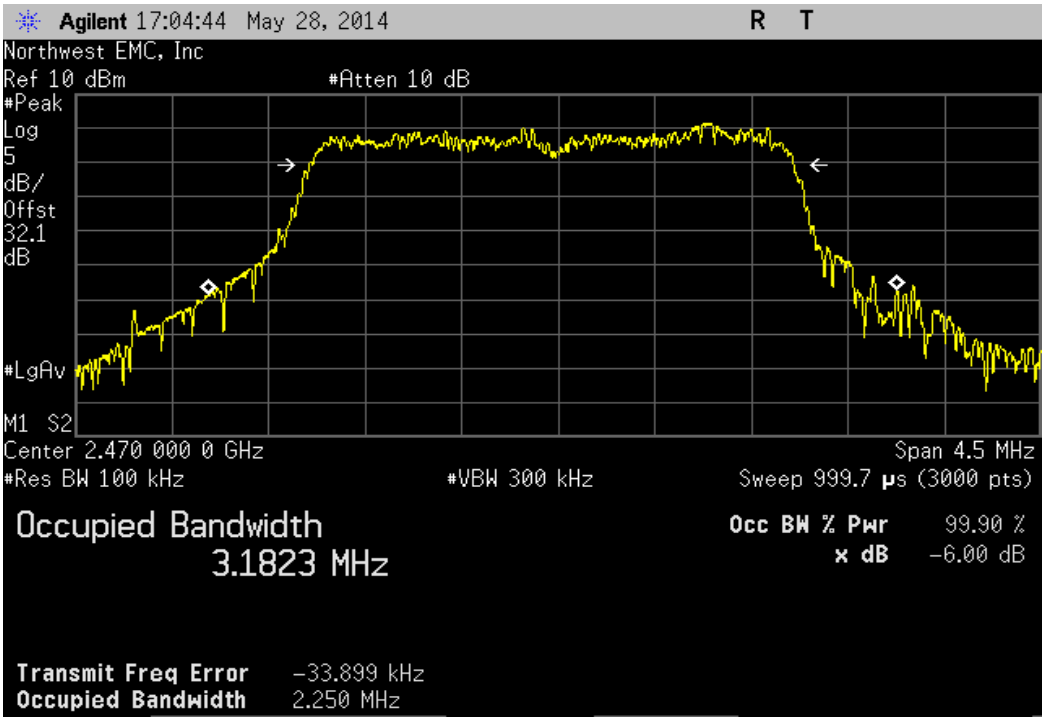
				Value	Limit	Result
				2.234 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 3x3 MIMO

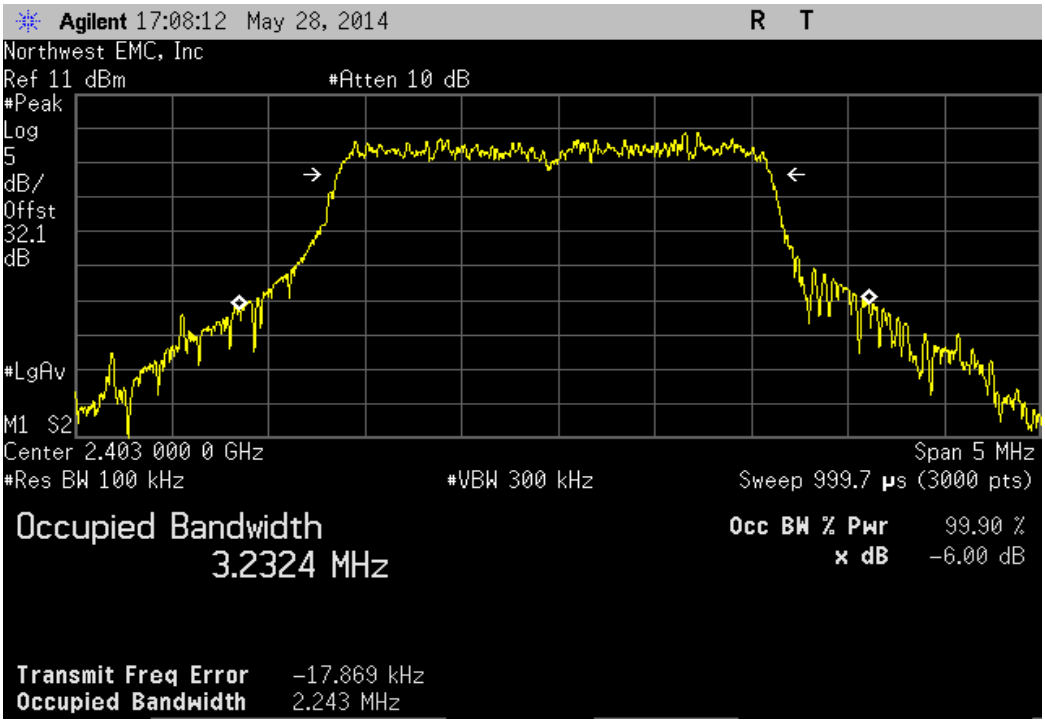
Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2470 MHz

				Value	Limit	Result
				2.25 MHz	> 500 kHz	Pass



Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2403 MHz

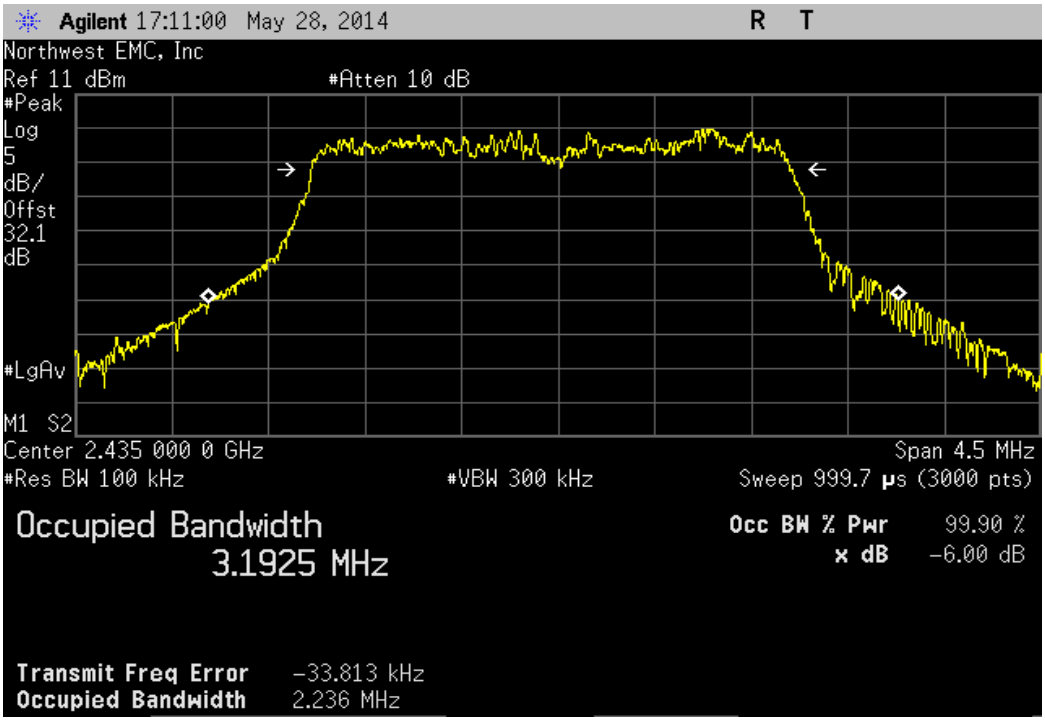
				Value	Limit	Result
				2.243 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 3x3 MIMO

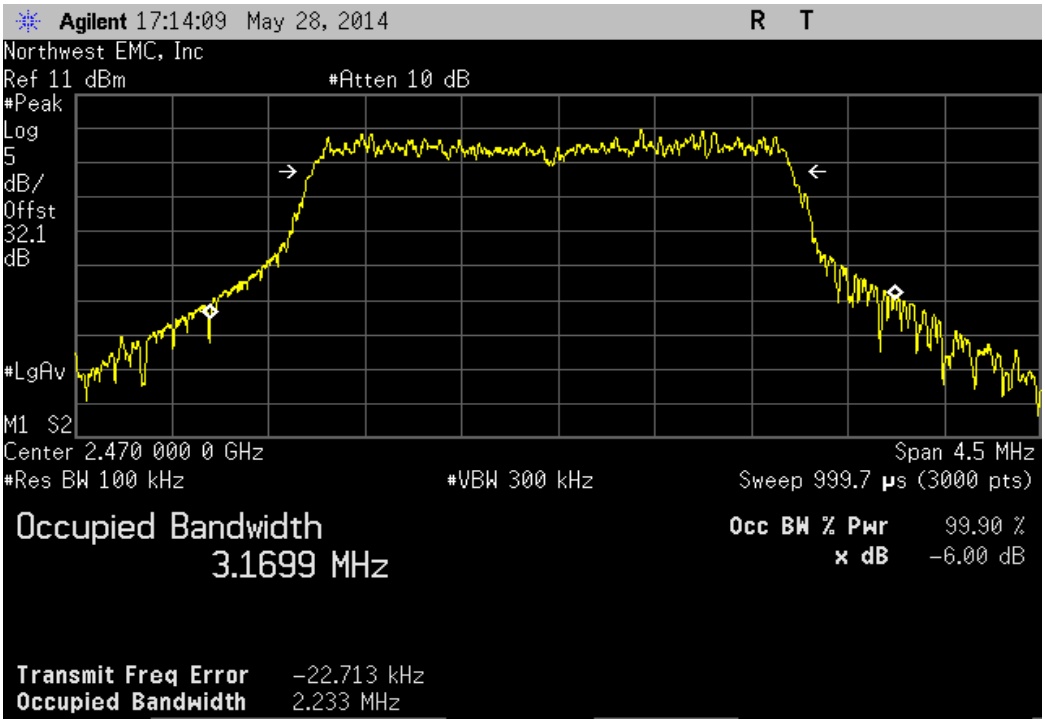
Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2435 MHz

				Value	Limit	Result
				2.236 MHz	> 500 kHz	Pass



Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2470 MHz

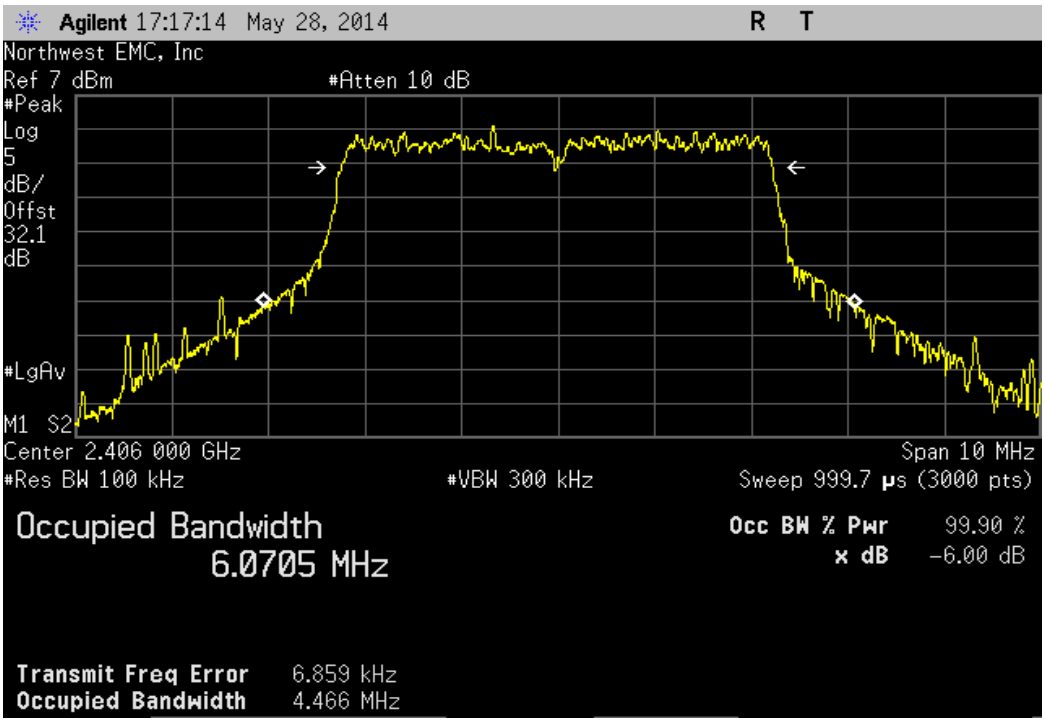
				Value	Limit	Result
				2.233 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 3x3 MIMO

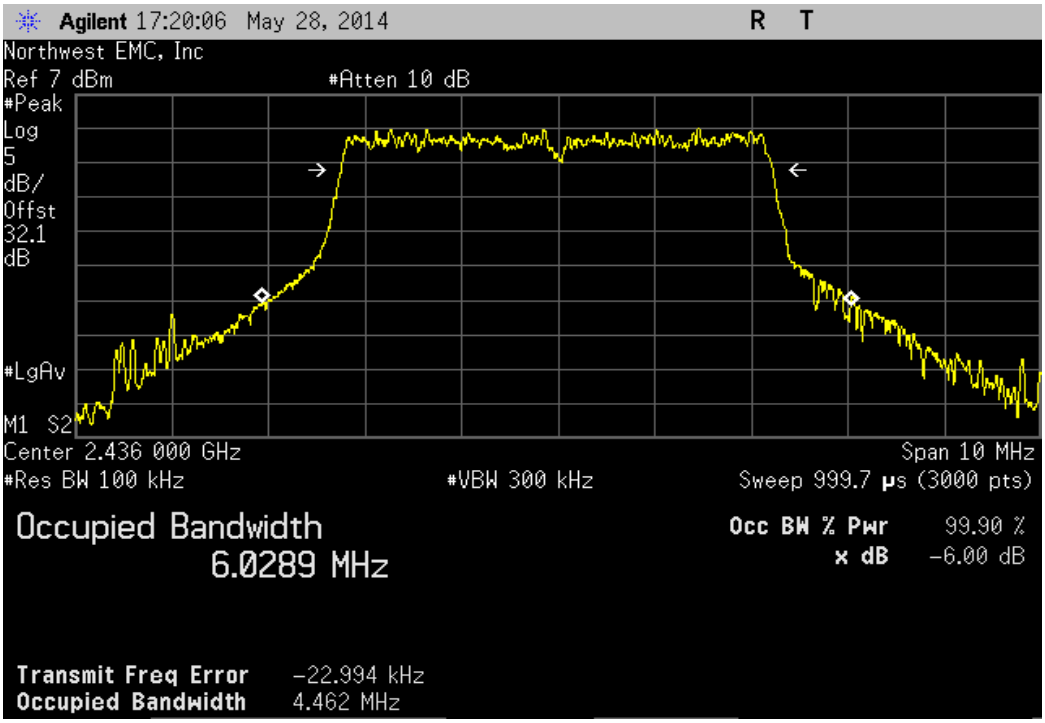
Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2406 MHz

				Value	Limit	Result
				4.466 MHz	> 500 kHz	Pass



Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2436 MHz

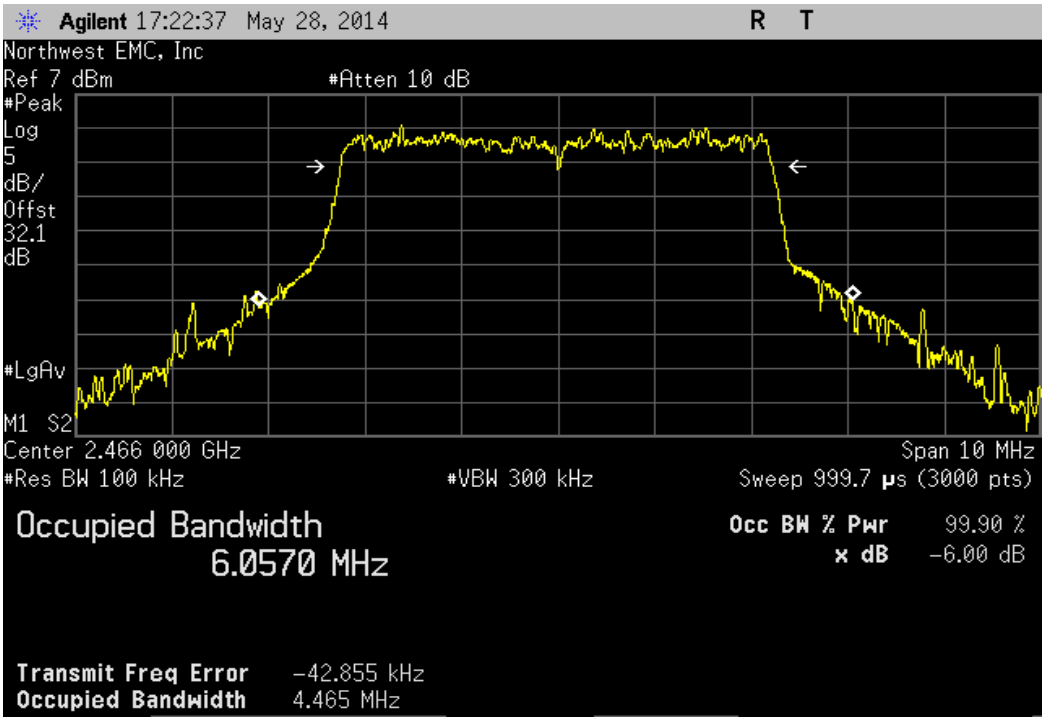
				Value	Limit	Result
				4.462 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 3x3 MIMO

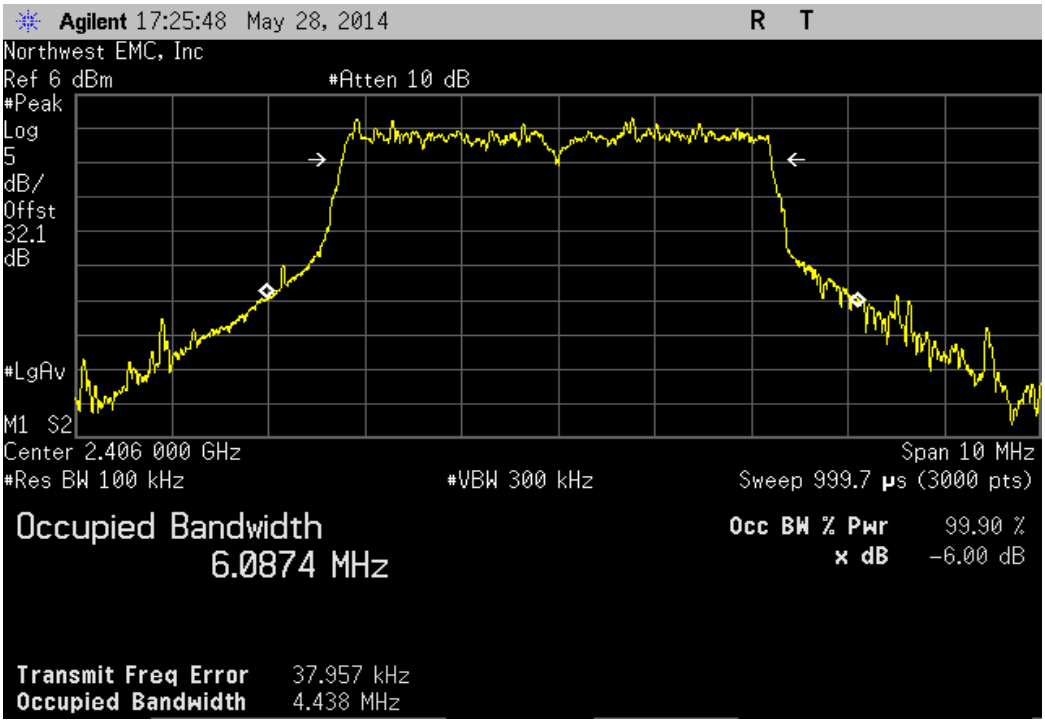
Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2466 MHz

				Value	Limit	Result
				4.465 MHz	> 500 kHz	Pass



Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2406 MHz

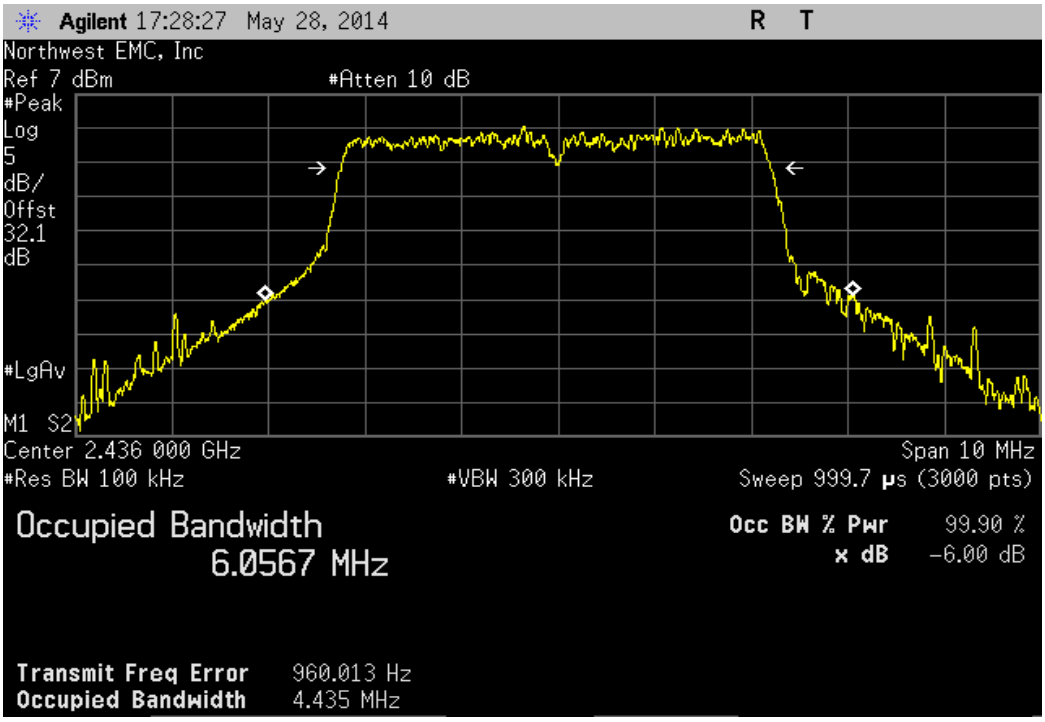
				Value	Limit	Result
				4.438 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 3x3 MIMO

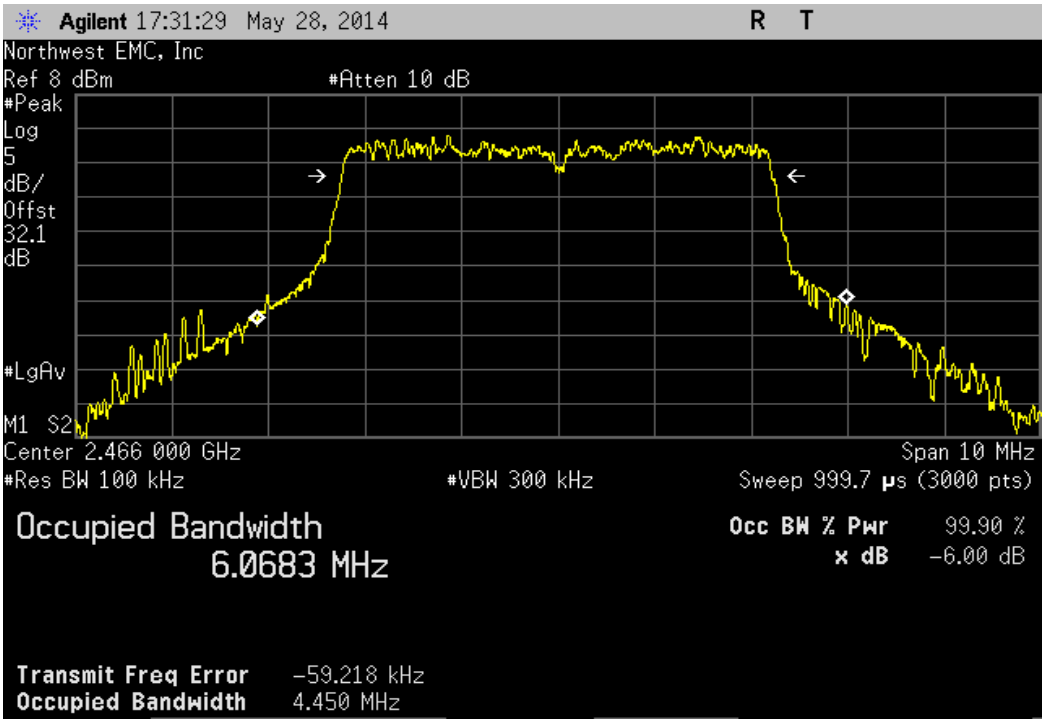
Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2436 MHz

				Value	Limit	Result
				4.435 MHz	> 500 kHz	Pass



Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2466 MHz

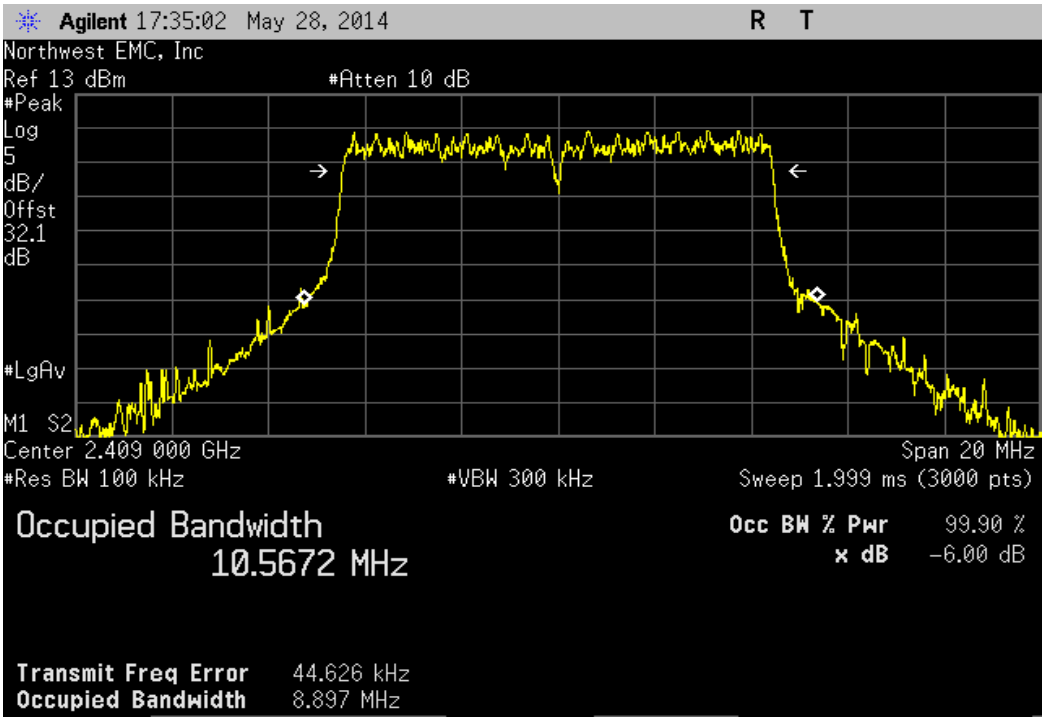
				Value	Limit	Result
				4.45 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 3x3 MIMO

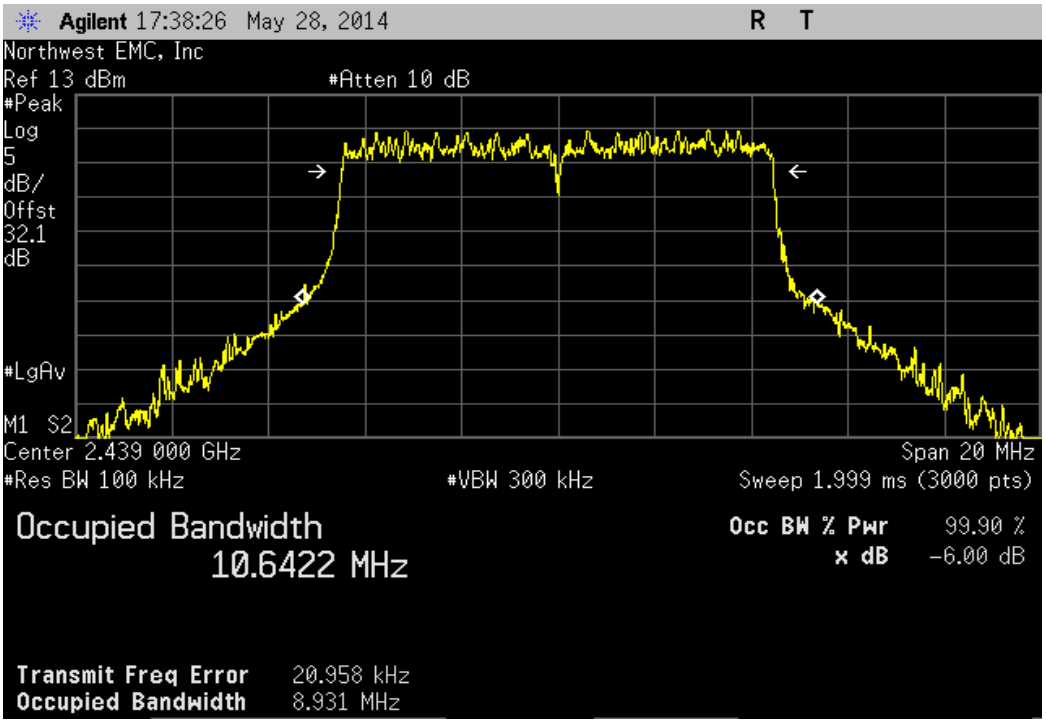
Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2409 MHz

				Value	Limit	Result
				8.897 MHz	> 500 kHz	Pass



Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2439 MHz

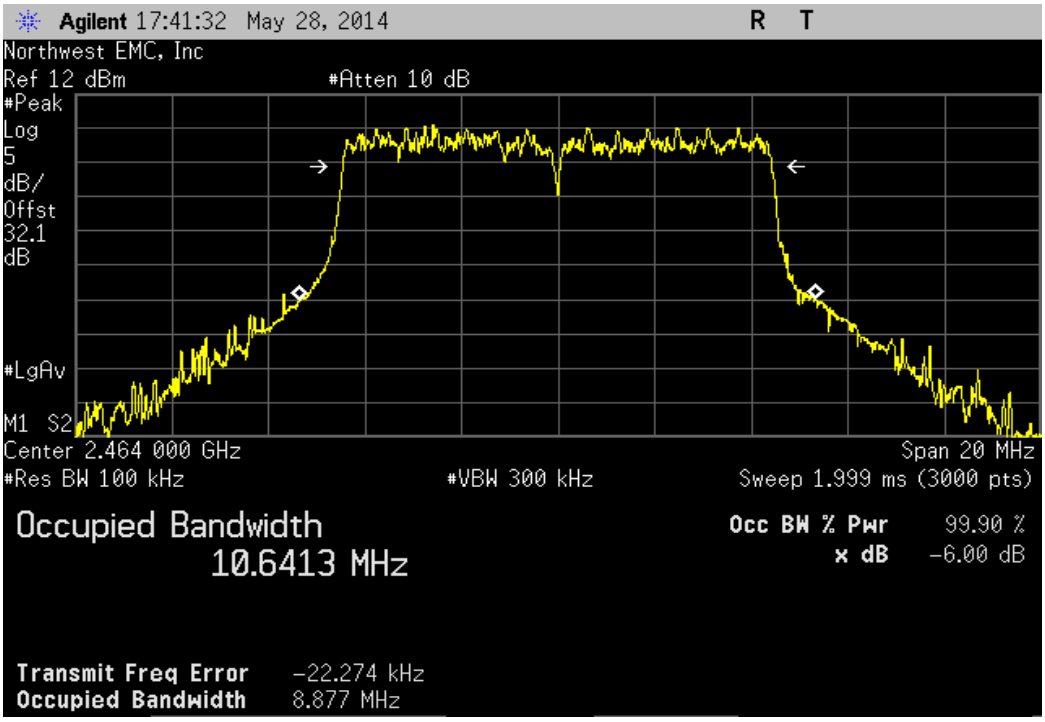
				Value	Limit	Result
				8.931 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 3x3 MIMO

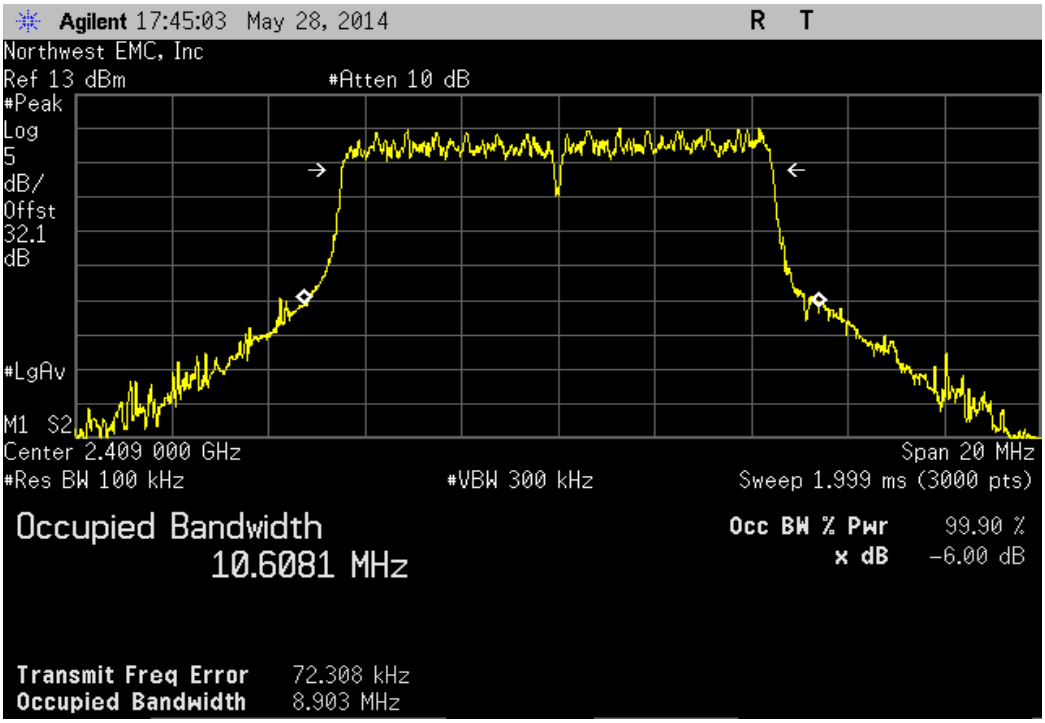
Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2464 MHz

				Value	Limit	Result
				8.877 MHz	> 500 kHz	Pass



Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2409 MHz

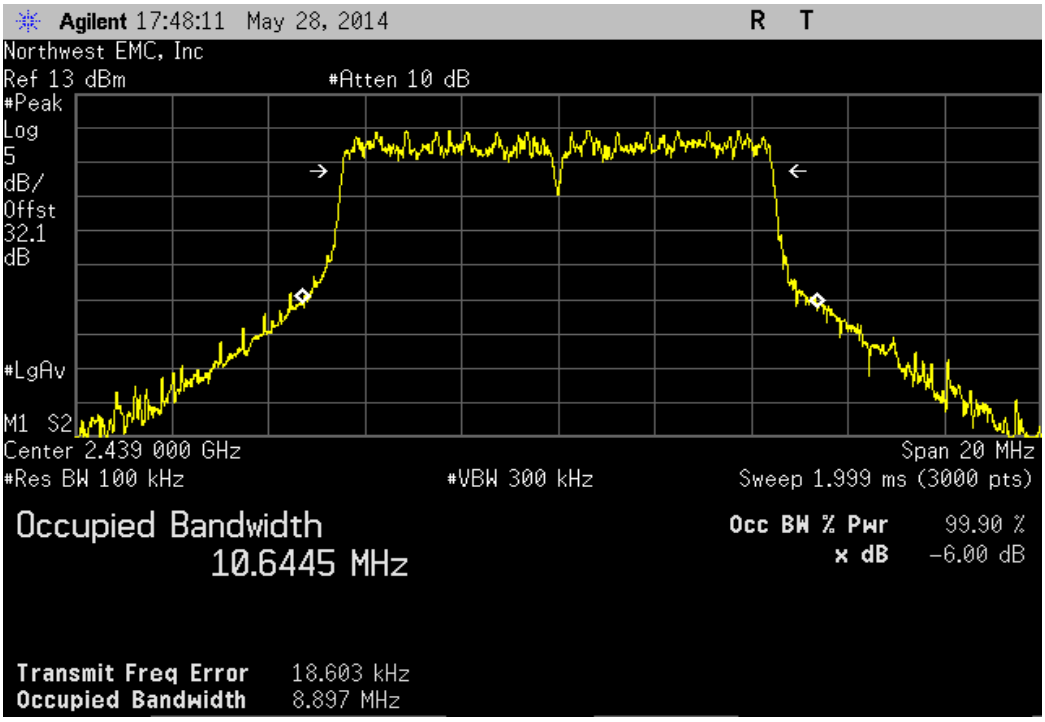
				Value	Limit	Result
				8.903 MHz	> 500 kHz	Pass

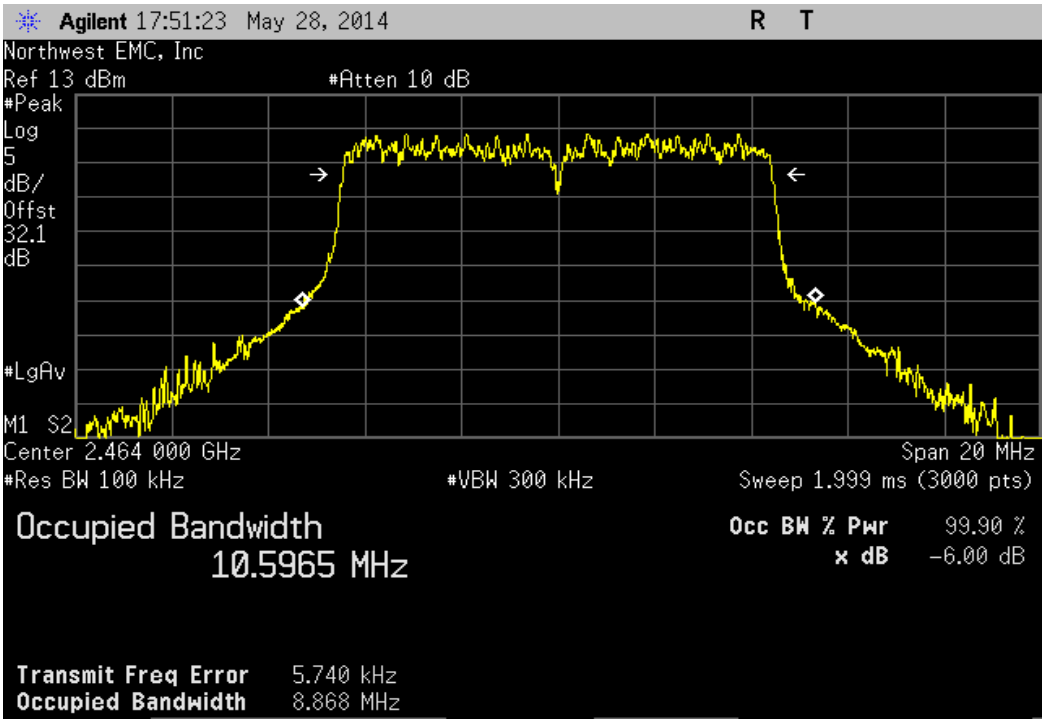


OCCUPIED BANDWIDTH - 3x3 MIMO

Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2439 MHz

				Value	Limit	Result
				8.897 MHz	> 500 kHz	Pass



Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2464 MHz

				Value	Limit	Result
				8.868 MHz	> 500 kHz	Pass