



Honeywell International Inc.

TH8732WF

FCC 15.207:2014

FCC 15.247:2014

Report #: HNYW0061



Report Prepared By Northwest EMC Inc.

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

California – Minnesota – Oregon – New York – Washington

CERTIFICATE OF TEST

Last Date of Test: April 01, 2014
Honeywell, Automation and Control Systems
Model: TH8732WF

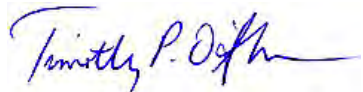
Emissions

Test Description	Specification	Test Method	Pass/Fail
Duty Cycle	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
Occupied Bandwidth	FCC 15.247:2014	ANSI C63.10:2009	Pass
Spurious Conducted Emissions	FCC 15.247:2014	ANSI C63.10:2009	Pass
Band Edge compliance	FCC 15.247:2014	ANSI C63.10:2009	Pass
Spurious Radiated Emissions	FCC 15.247:2014	ANSI C63.10:2009	Pass
Powerline Conducted Emissions	FCC 15.207:2014	ANSI C63.10:2009	Pass

Deviations From Test Standards

None

Approved By:



Tim O'Shea, Operations Manager



NVLAP Lab Code: 200881-0

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.

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

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

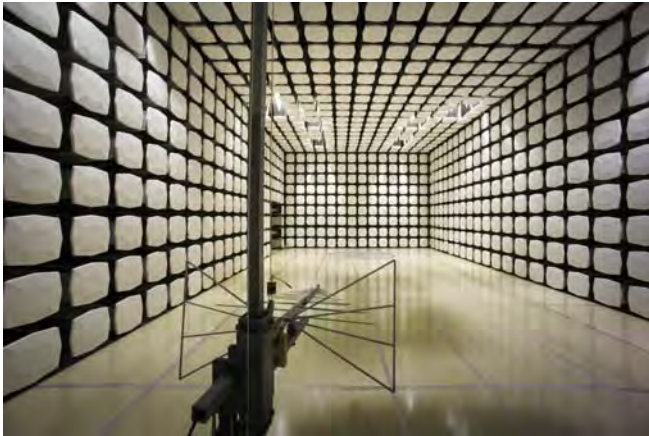
A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) for each test is listed below. Our measurement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

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

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



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





PRODUCT DESCRIPTION

Client and Equipment Under Test (EUT) Information

Company Name:	Honeywell International Inc.
Address:	1985 Douglas Drive North
City, State, Zip:	Golden Valley, MN 55422-3992
Test Requested By:	Dave Mulhouse
Model:	TH8732WF
First Date of Test:	March 27, 2014
Last Date of Test:	April 01, 2014
Receipt Date of Samples:	March 26, 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):
Thermostat with 802.11bgn SISO radio module capable of only 1 data stream via 2 separate antenna paths.
Testing Objective:
To demonstrate compliance under FCC 15.247 for operation in the 2.4 GHz band(s).

Configuration HNYW0061- 1

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Thermostat	Honeywell, Automation and Control Solutions	TH8732WF	82302010004286

Remote Equipment Outside of Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Load Board	Honeywell, Automation and Control Solutions	None	None

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Power	No	2.8m	No	Thermostat	Load Board
AC Power	No	1.6m	No	Load Board	AC Mains
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Configuration HNYW0061- 3

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Thermostat	Honeywell, Automation and Control Solutions	TH8732WF	82302010004324

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Transformer	CUI Inc	48A-24-500	None

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Power	No	1.8m	No	Thermostat	Transformer
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	3/27/2014	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
2	3/28/2014	Powerline Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT was taken home by the client before the next scheduled test.
3	4/1/2014	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.
4	4/1/2014	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.
5	4/1/2014	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.
6	4/1/2014	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.
7	4/1/2014	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.
8	4/1/2014	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

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	N9010A	AFI	1/27/2013	24
Attenuator - 20db, 'SMA'	SM Electronics	SA26B-20	RFW	4/12/2013	12
40 GHz DC block	Fairview Microwave	SD3379	AMI	9/26/2013	12
Signal Generator MXG	Agilent	N5183A	TIK	6/7/2012	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.



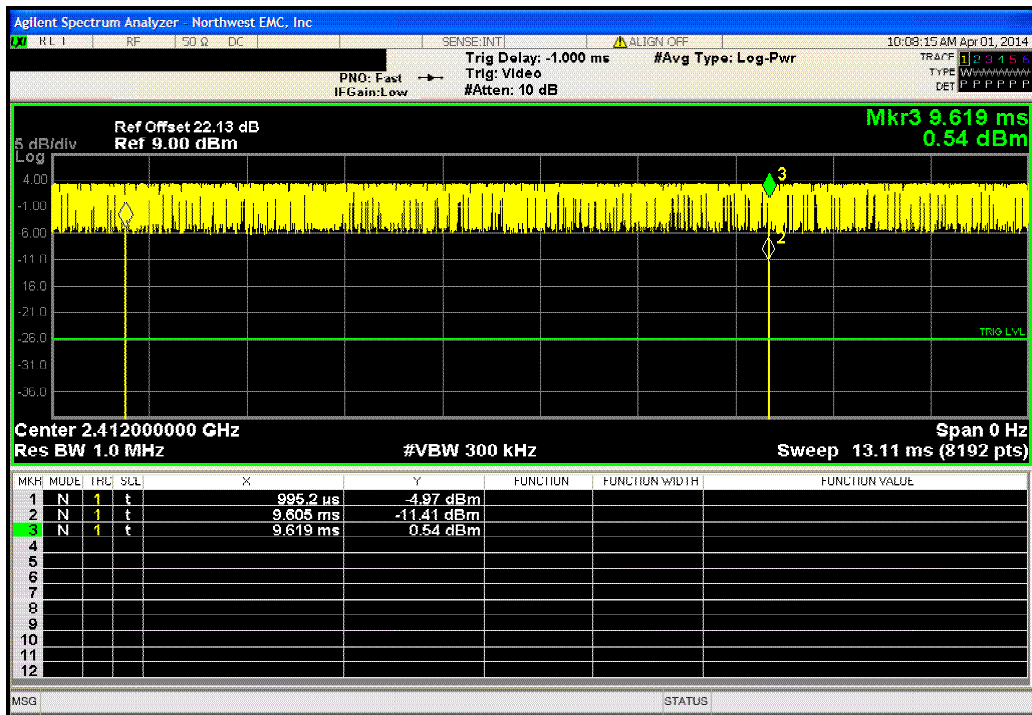
DUTY CYCLE

XMit 2013.08.15
PsaTx 2014.03.28

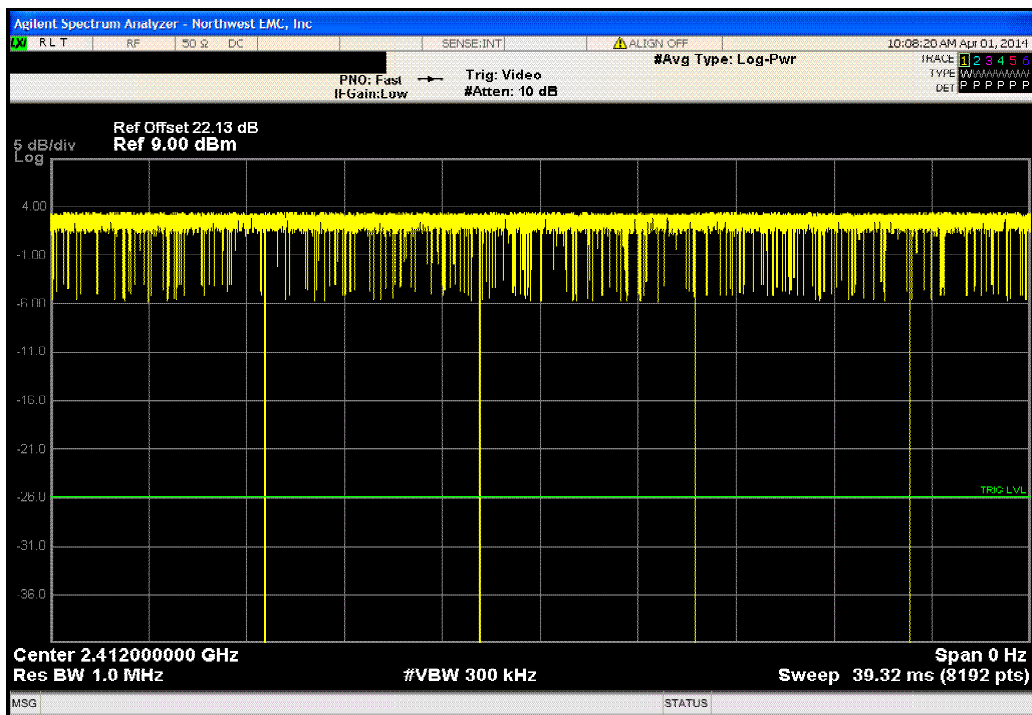
EUT: TH8732WF			Work Order: HNYW0061				
Serial Number: 82302010004324			Date: 04/01/14				
Customer: Honeywell International Inc.			Temperature: 23.2°C				
Attendees: None			Humidity: 20%				
Project: None			Barometric Pres.: 1016.9				
Tested by: Trevor Buls		Power: 110VAC/60Hz	Job Site: MN05				
TEST SPECIFICATIONS			Test Method				
FCC 15.247:2014			ANSI C63.10:2009				
COMMENTS							
None							
DEVIATIONS FROM TEST STANDARD							
None							
Configuration #	3	Signature <i>Trevor Buls</i>					
		Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
Antenna 0							
802.11(b) 1 Mbps							
Low Channel 1, 2412 MHz		8.61 mS	8.624 mS	1	99.8	N/A	N/A
Low Channel 1, 2412 MHz		N/A	N/A	5	N/A	N/A	N/A
Mid Channel 6, 2437 MHz		8.608 mS	8.622 mS	1	99.8	N/A	N/A
Mid Channel 6, 2437 MHz		N/A	N/A	5	N/A	N/A	N/A
High Channel 11, 2462 MHz		8.608 mS	8.622 mS	1	99.8	N/A	N/A
High Channel 11, 2462 MHz		N/A	N/A	5	N/A	N/A	N/A
802.11(b) 11 Mbps							
Low Channel 1, 2412 MHz		957 uS	972.4 uS	1	98.4	N/A	N/A
Low Channel 1, 2412 MHz		N/A	N/A	6	N/A	N/A	N/A
Mid Channel 6, 2437 MHz		957.4 uS	972.4 uS	1	98.5	N/A	N/A
Mid Channel 6, 2437 MHz		N/A	N/A	5	N/A	N/A	N/A
High Channel 11, 2462 MHz		957 uS	972.4 uS	1	98.4	N/A	N/A
High Channel 11, 2462 MHz		N/A	N/A	5	N/A	N/A	N/A
802.11(g) 6 Mbps							
Low Channel 1, 2412 MHz		1.42 mS	1.449 mS	1	98	N/A	N/A
Low Channel 1, 2412 MHz		N/A	N/A	5	N/A	N/A	N/A
Mid Channel 6, 2437 MHz		1.421 mS	1.449 mS	1	98.1	N/A	N/A
Mid Channel 6, 2437 MHz		N/A	N/A	5	N/A	N/A	N/A
High Channel 11, 2462 MHz		33.7 uS	1.449 mS	1	2.3	N/A	N/A
High Channel 11, 2462 MHz		N/A	N/A	5	N/A	N/A	N/A
802.11(g) 36 Mbps							
Low Channel 1, 2412 MHz		248.4 uS	276.4 uS	1	89.9	N/A	N/A
Low Channel 1, 2412 MHz		N/A	N/A	5	N/A	N/A	N/A
Mid Channel 6, 2437 MHz		248.4 uS	276.4 uS	1	89.9	N/A	N/A
Mid Channel 6, 2437 MHz		N/A	N/A	5	N/A	N/A	N/A
High Channel 11, 2462 MHz		248.1 uS	276.1 uS	1	89.9	N/A	N/A
High Channel 11, 2462 MHz		N/A	N/A	5	N/A	N/A	N/A
802.11(g) 54 Mbps							
Low Channel 1, 2412 MHz		171.9 uS	200.2 uS	1	85.9	N/A	N/A
Low Channel 1, 2412 MHz		N/A	N/A	5	N/A	N/A	N/A
Mid Channel 6, 2437 MHz		172.1 uS	200.2 uS	1	86	N/A	N/A
Mid Channel 6, 2437 MHz		N/A	N/A	6	N/A	N/A	N/A
High Channel 11, 2462 MHz		172.4 uS	200.2 uS	1	86.1	N/A	N/A
High Channel 11, 2462 MHz		N/A	N/A	5	N/A	N/A	N/A
802.11(n) MCS0							
Low Channel 1, 2412 MHz		1.329 mS	1.357 mS	1	97.9	N/A	N/A
Low Channel 1, 2412 MHz		N/A	N/A	6	N/A	N/A	N/A
Mid Channel 6, 2437 MHz		1.329 mS	1.357 mS	1	97.9	N/A	N/A
Mid Channel 6, 2437 MHz		N/A	N/A	5	N/A	N/A	N/A
High Channel 11, 2462 MHz		1.329 mS	1.357 mS	1	97.9	N/A	N/A
High Channel 11, 2462 MHz		N/A	N/A	5	N/A	N/A	N/A
802.11(n) MCS7							
Low Channel 1, 2412 MHz		160.6 uS	188.5 uS	1	85.2	N/A	N/A
Low Channel 1, 2412 MHz		N/A	N/A	5	N/A	N/A	N/A
Mid Channel 6, 2437 MHz		160.9 uS	188.5 uS	1	85.4	N/A	N/A
Mid Channel 6, 2437 MHz		N/A	N/A	5	N/A	N/A	N/A
High Channel 11, 2462 MHz		160.9 uS	188.5 uS	1	85.4	N/A	N/A
High Channel 11, 2462 MHz		N/A	N/A	5	N/A	N/A	N/A
Antenna 1							
802.11(b) 1 Mbps							
Low Channel 1, 2412 MHz		8.608 mS	8.622 mS	1	99.8	N/A	N/A
Low Channel 1, 2412 MHz		N/A	N/A	5	N/A	N/A	N/A
Mid Channel 6, 2437 MHz		8.608 mS	8.622 mS	1	99.8	N/A	N/A
Mid Channel 6, 2437 MHz		N/A	N/A	5	N/A	N/A	N/A
High Channel 11, 2462 MHz		8.608 mS	8.622 mS	1	99.8	N/A	N/A
High Channel 11, 2462 MHz		N/A	N/A	5	N/A	N/A	N/A
802.11(b) 11 Mbps							
Low Channel 1, 2412 MHz		958.1 uS	972.4 uS	1	98.5	N/A	N/A
Low Channel 1, 2412 MHz		N/A	N/A	5	N/A	N/A	N/A
Mid Channel 6, 2437 MHz		958.1 uS	972.8 uS	1	98.5	N/A	N/A
Mid Channel 6, 2437 MHz		N/A	N/A	5	N/A	N/A	N/A
High Channel 11, 2462 MHz		957.8 uS	972.4 uS	1	98.5	N/A	N/A
High Channel 11, 2462 MHz		N/A	N/A	5	N/A	N/A	N/A
802.11(g) 6 Mbps							
Low Channel 1, 2412 MHz		1.421 mS	1.449 mS	1	98.1	N/A	N/A
Low Channel 1, 2412 MHz		N/A	N/A	5	N/A	N/A	N/A
Mid Channel 6, 2437 MHz		1.421 mS	1.449 mS	1	98.1	N/A	N/A
Mid Channel 6, 2437 MHz		N/A	N/A	5	N/A	N/A	N/A
High Channel 11, 2462 MHz		1.421 mS	1.449 mS	1	98.1	N/A	N/A
High Channel 11, 2462 MHz		N/A	N/A	5	N/A	N/A	N/A
802.11(g) 36 Mbps							
Low Channel 1, 2412 MHz		248.5 uS	276.1 uS	1	90	N/A	N/A
Low Channel 1, 2412 MHz		N/A	N/A	5	N/A	N/A	N/A
Mid Channel 6, 2437 MHz		248.8 uS	276.4 uS	1	90	N/A	N/A
Mid Channel 6, 2437 MHz		N/A	N/A	5	N/A	N/A	N/A
High Channel 11, 2462 MHz		249.1 uS	276.4 uS	1	90.1	N/A	N/A
High Channel 11, 2462 MHz		N/A	N/A	5	N/A	N/A	N/A

802.11(g) 54 Mbps							
Low Channel 1, 2412 MHz	172.6 uS	200.2 uS	1	86.2	N/A	N/A	
Low Channel 1, 2412 MHz	N/A	N/A	5	N/A	N/A	N/A	
Mid Channel 6, 2437 MHz	172.9 uS	200.5 uS	1	86.2	N/A	N/A	
Mid Channel 6, 2437 MHz	N/A	N/A	5	N/A	N/A	N/A	
High Channel 11, 2462 MHz	172.8 uS	200.4 uS	1	86.2	N/A	N/A	
High Channel 11, 2462 MHz	N/A	N/A	5	N/A	N/A	N/A	
802.11(n) MCS0							
Low Channel 1, 2412 MHz	1.329 mS	1.357 mS	1	98	N/A	N/A	
Low Channel 1, 2412 MHz	N/A	N/A	5	N/A	N/A	N/A	
Mid Channel 6, 2437 MHz	1.329 mS	1.357 mS	1	98	N/A	N/A	
Mid Channel 6, 2437 MHz	N/A	N/A	5	N/A	N/A	N/A	
High Channel 11, 2462 MHz	1.329 mS	1.357 mS	1	98	N/A	N/A	
High Channel 11, 2462 MHz	N/A	N/A	5	N/A	N/A	N/A	
802.11(n) MCS7							
Low Channel 1, 2412 MHz	160.9 uS	188.5 uS	1	85.4	N/A	N/A	
Low Channel 1, 2412 MHz	N/A	N/A	5	N/A	N/A	N/A	
Mid Channel 6, 2437 MHz	160.9 uS	188.5 uS	1	85.4	N/A	N/A	
Mid Channel 6, 2437 MHz	N/A	N/A	5	N/A	N/A	N/A	
High Channel 11, 2462 MHz	161.2 uS	188.5 uS	1	85.5	N/A	N/A	
High Channel 11, 2462 MHz	N/A	N/A	5	N/A	N/A	N/A	

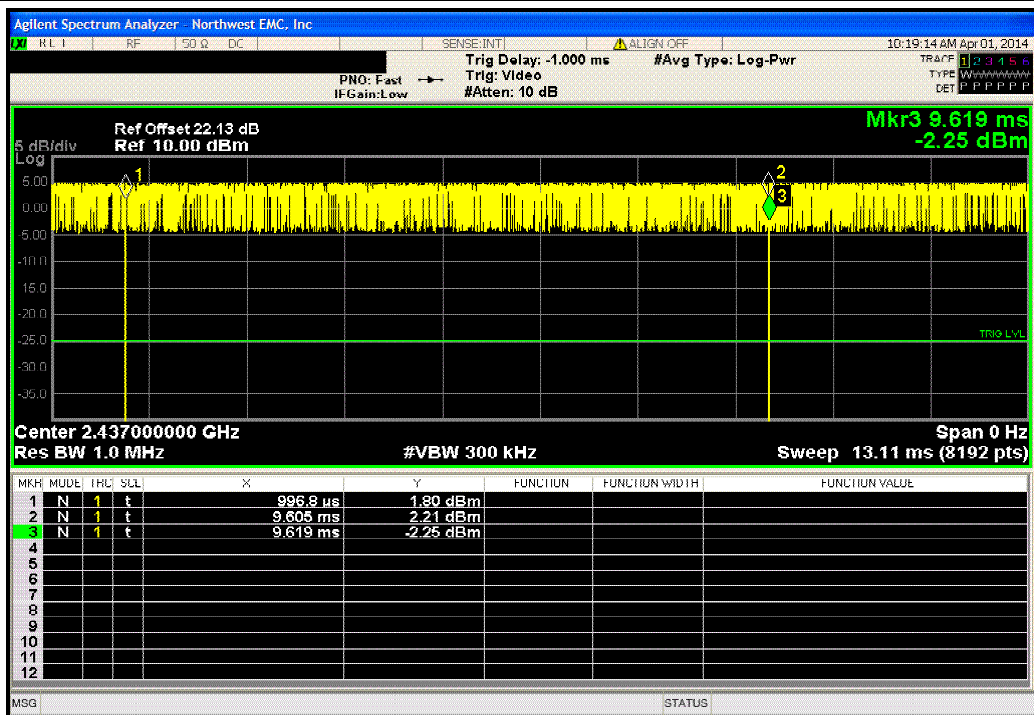
Antenna 0, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
8.61 mS	8.624 mS	1	99.8	N/A	N/A	



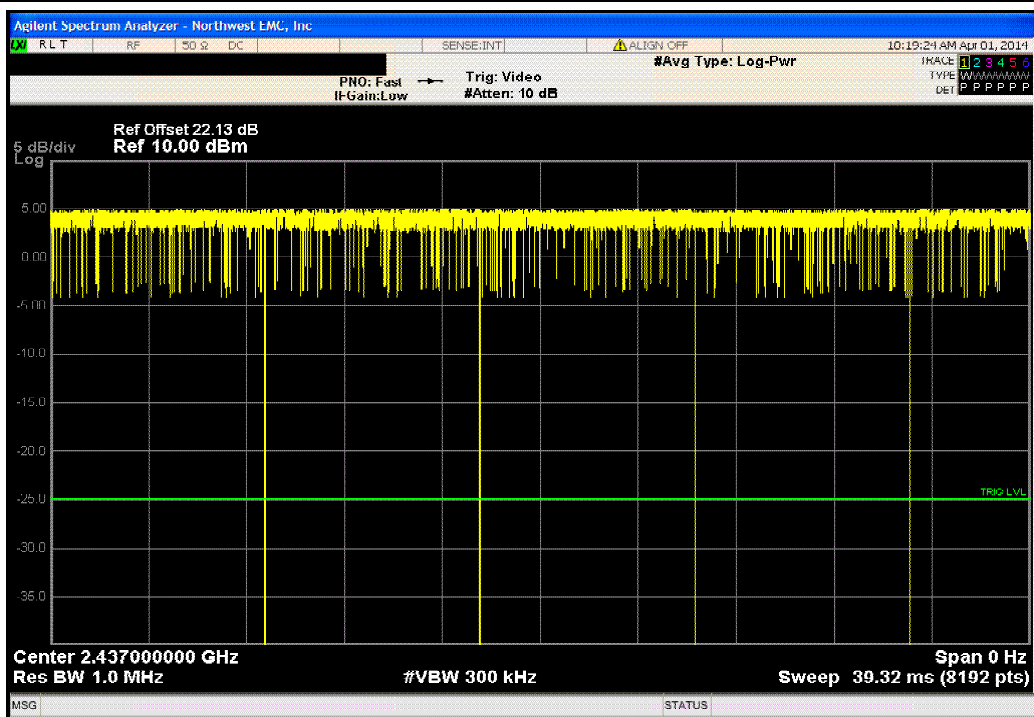
Antenna 0, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



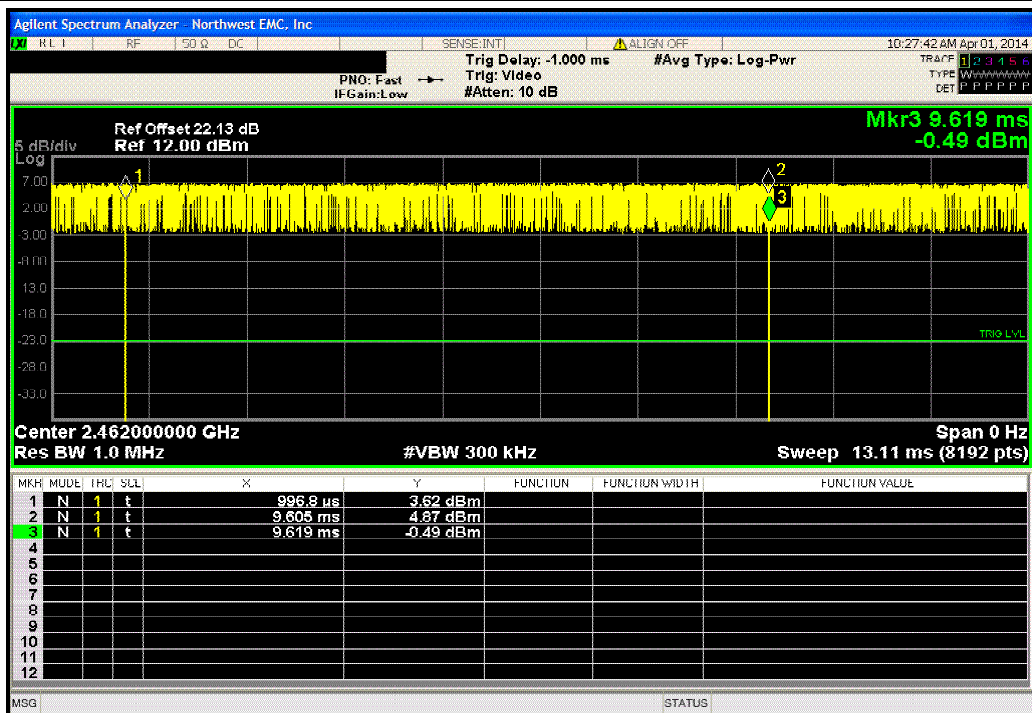
Antenna 0, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
8.608 mS	8.622 mS	1	99.8	N/A	N/A	



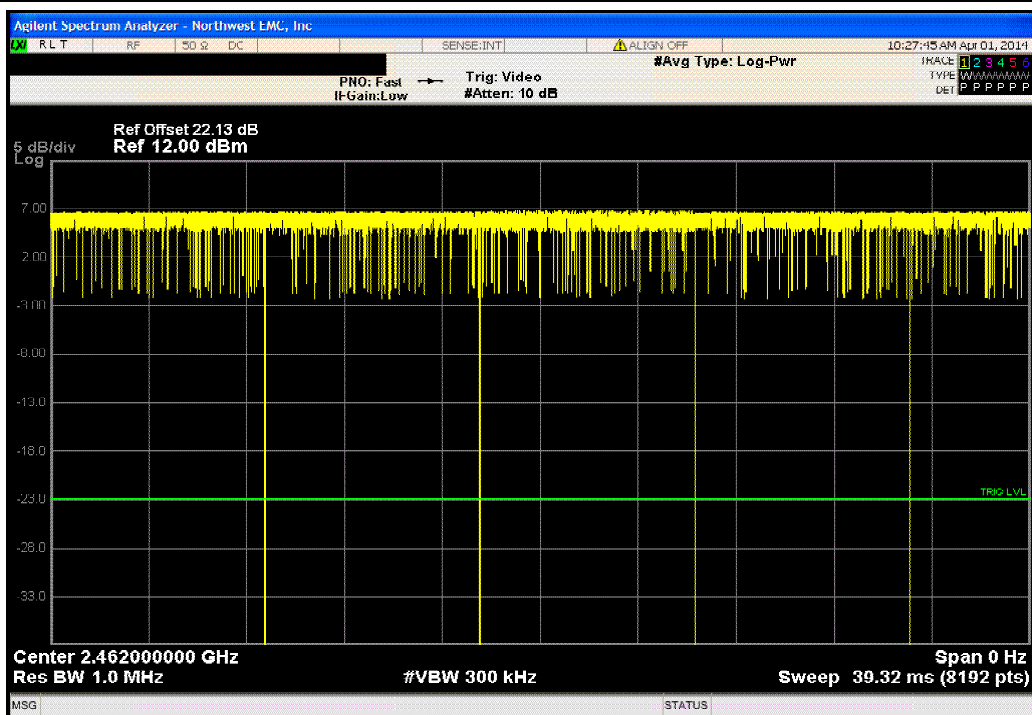
Antenna 0, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



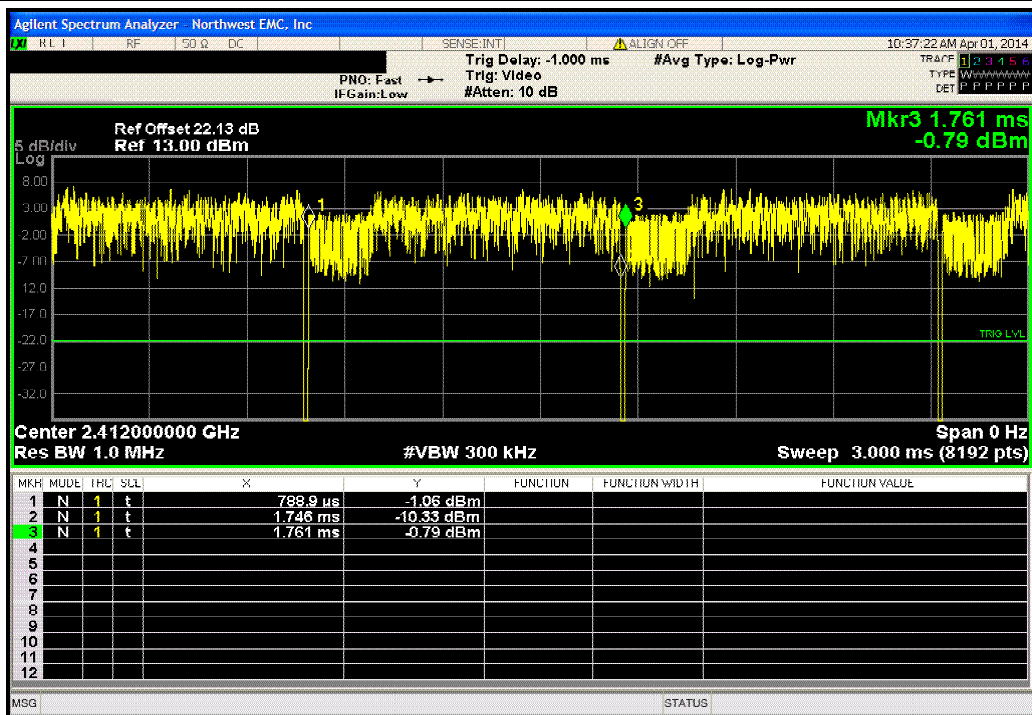
Antenna 0, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
8.608 mS	8.622 mS	1	99.8	N/A	N/A	



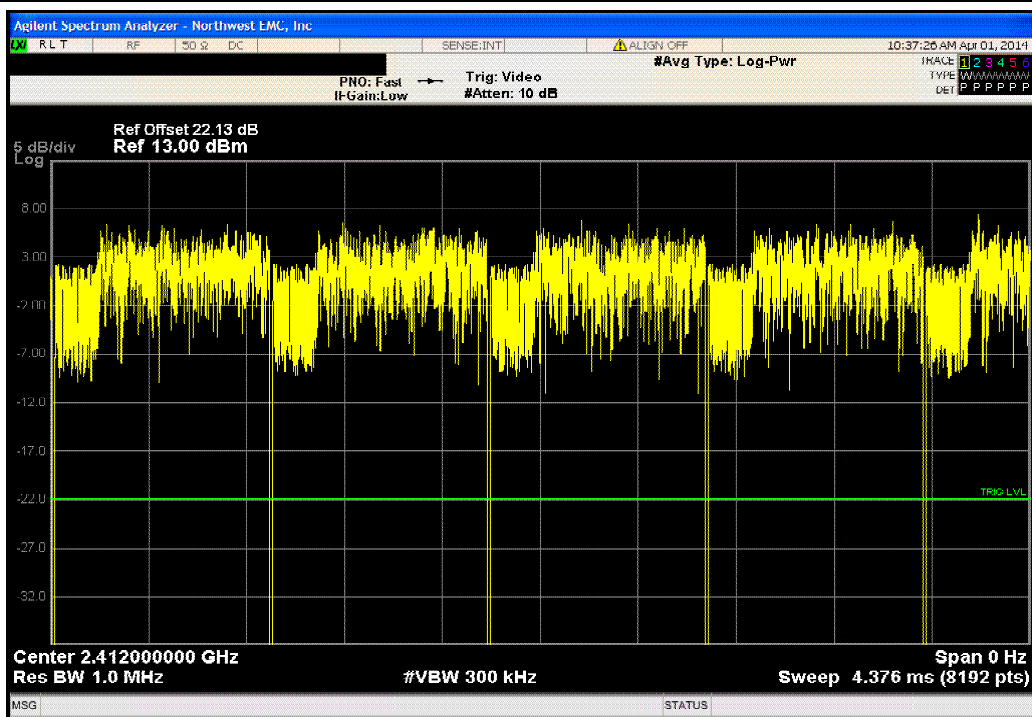
Antenna 0, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



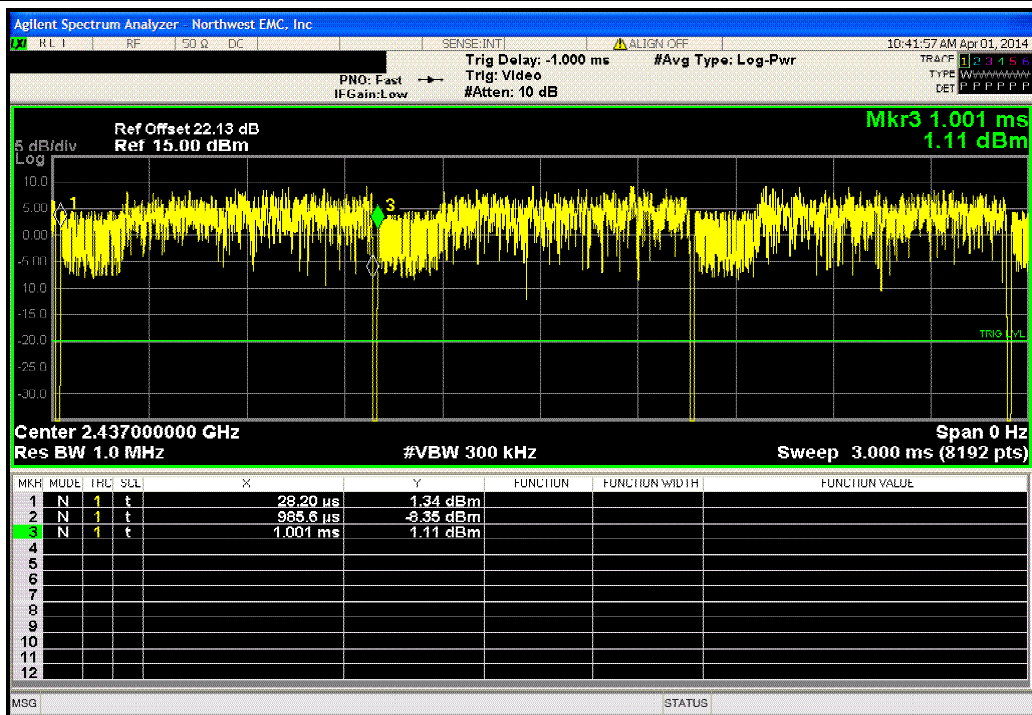
Antenna 0, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
957 uS	972.4 uS	1	98.4	N/A	N/A	



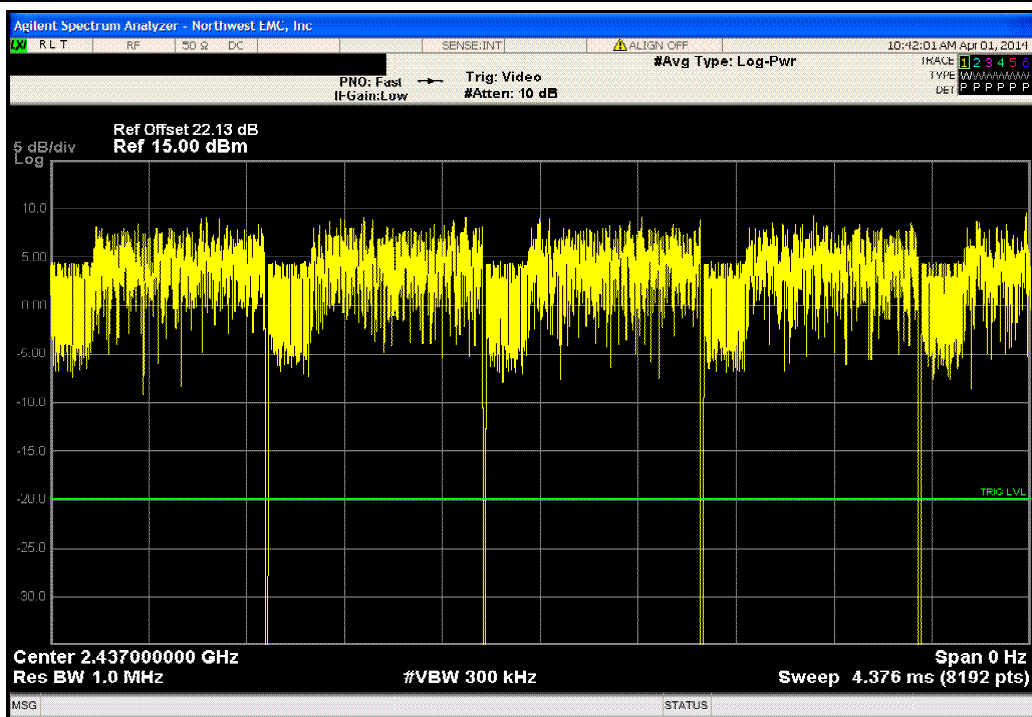
Antenna 0, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	6	N/A	N/A	N/A	



Antenna 0, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
957.4 uS	972.4 uS	1	98.5	N/A	N/A	

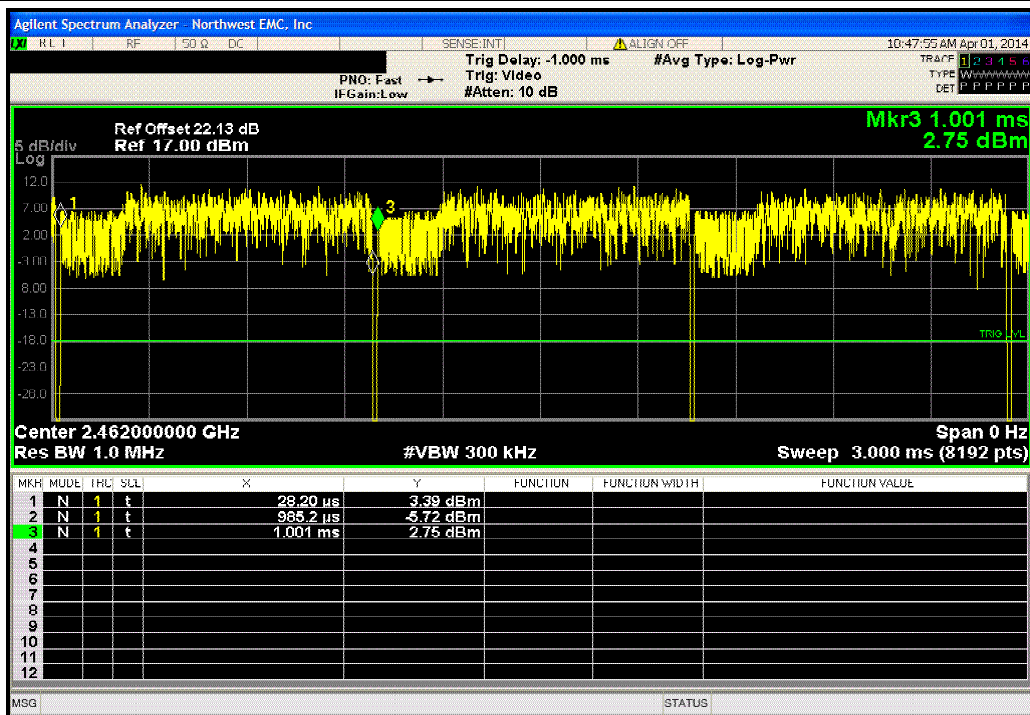


Antenna 0, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



Antenna 0, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz

Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
957 uS	972.4 uS	1	98.4	N/A	N/A

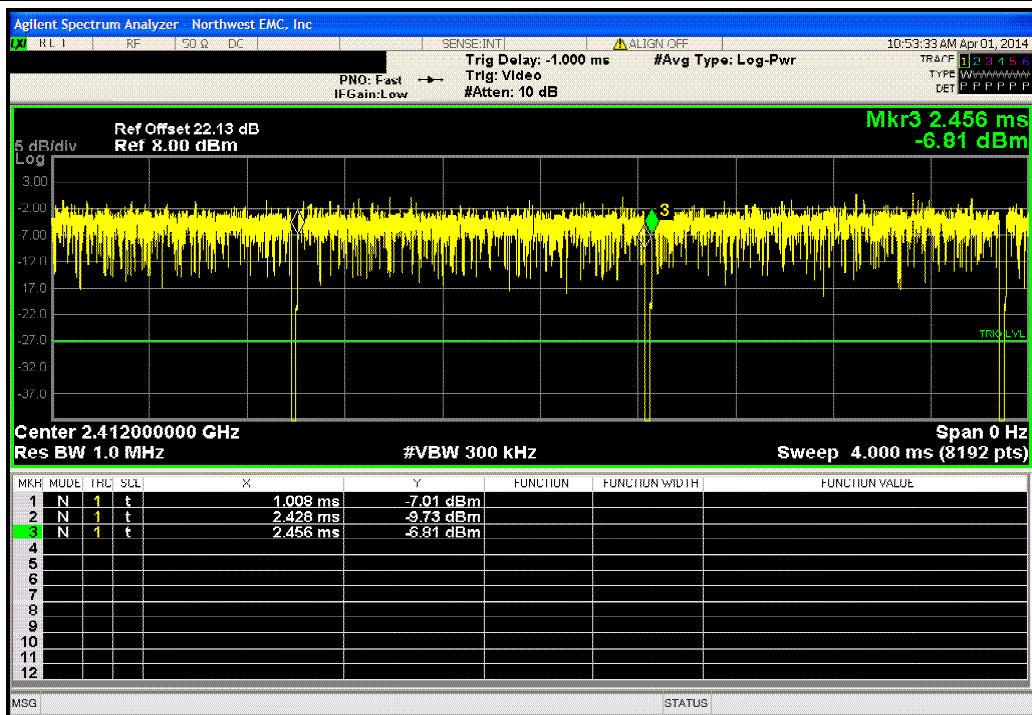


Antenna 0, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz

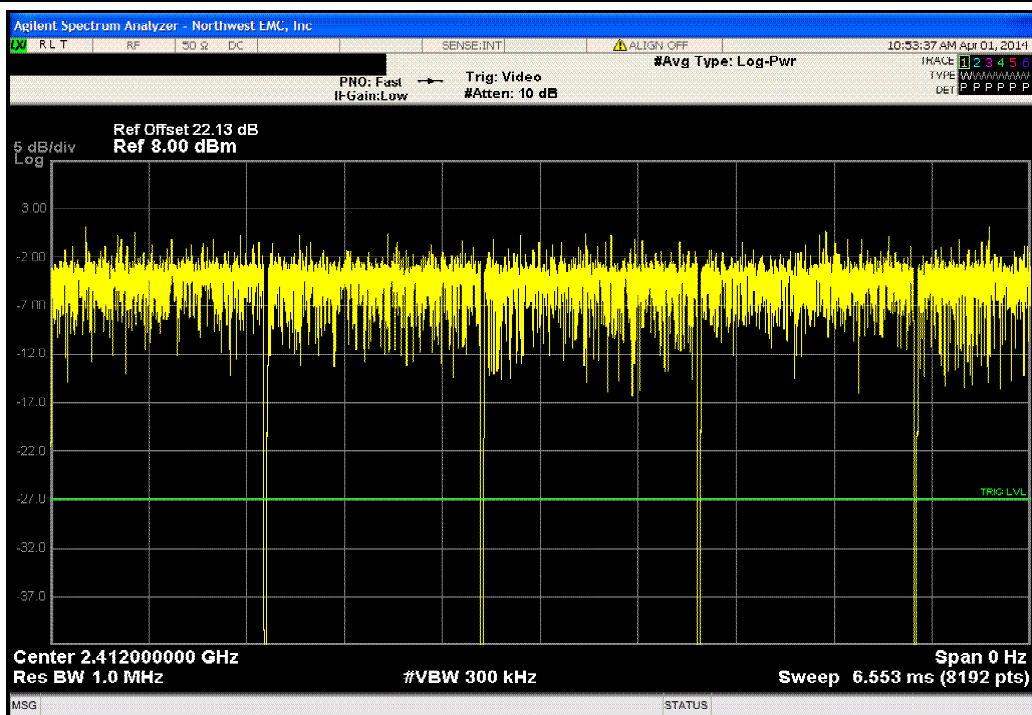
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
N/A	N/A	5	N/A	N/A	N/A



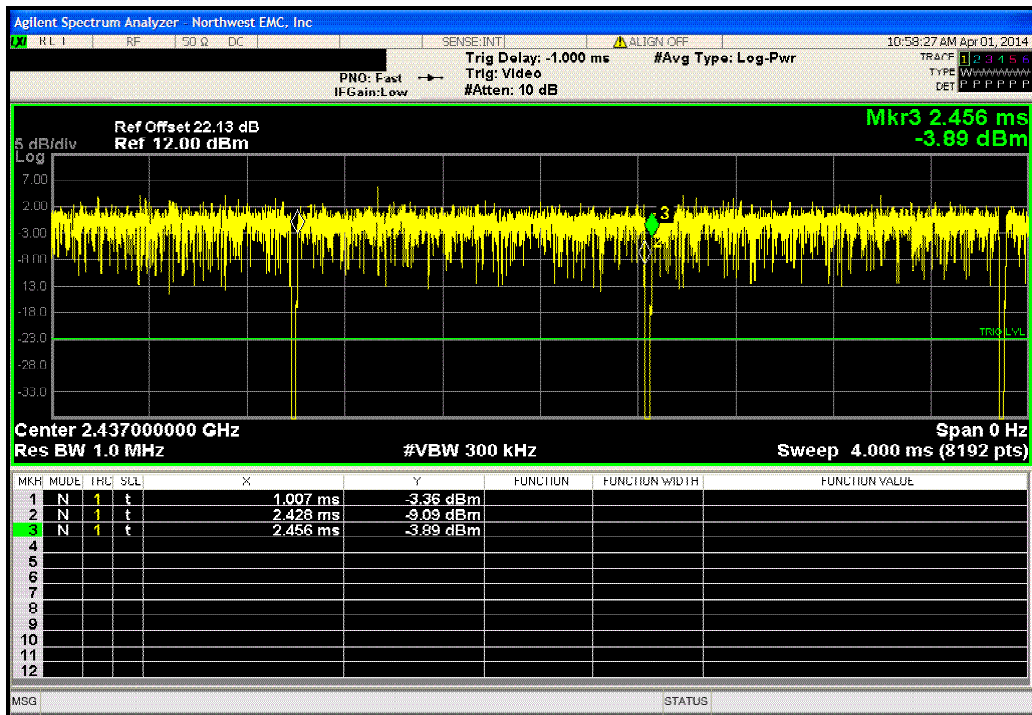
Antenna 0, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
1.42 mS	1.449 mS	1	98	N/A	N/A	



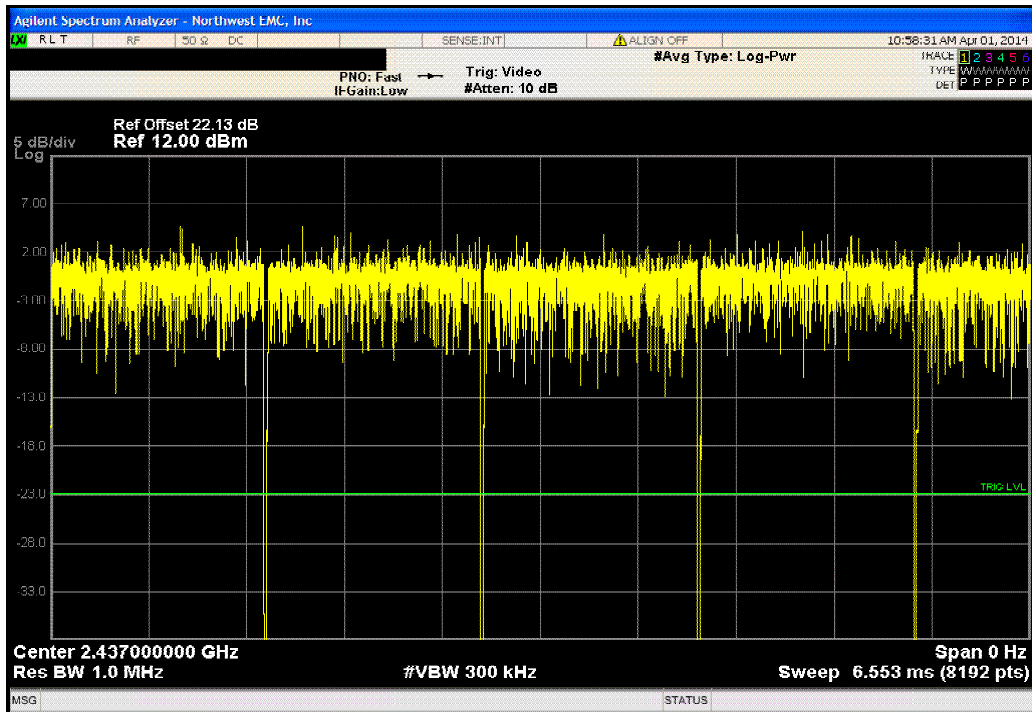
Antenna 0, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



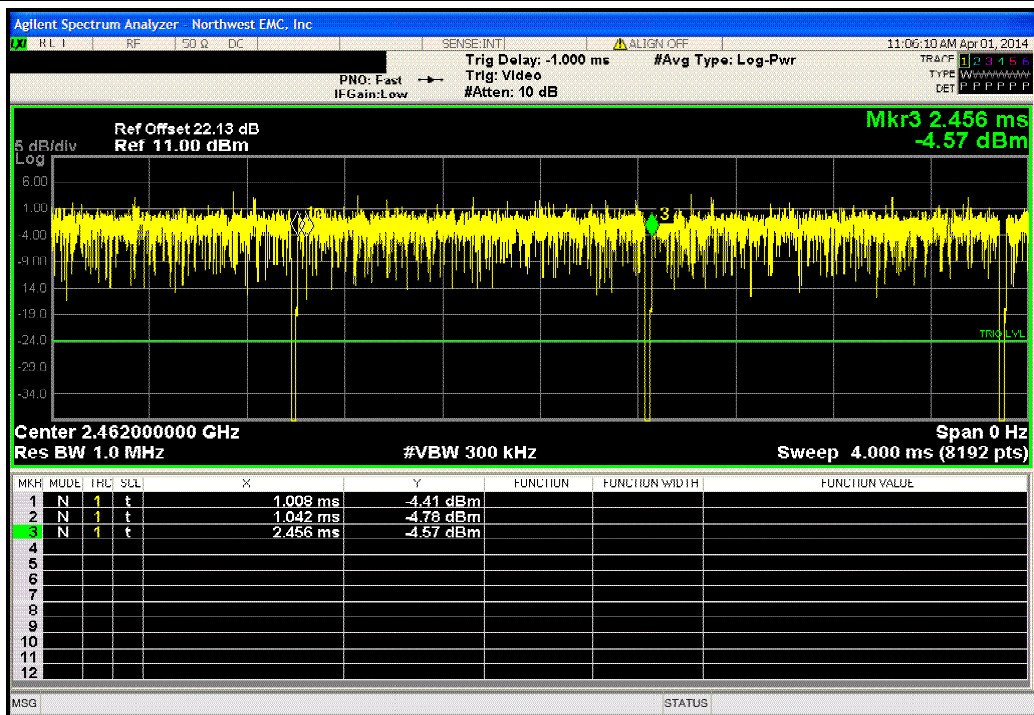
Antenna 0, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
1.421 mS	1.449 mS	1	98.1	N/A	N/A	



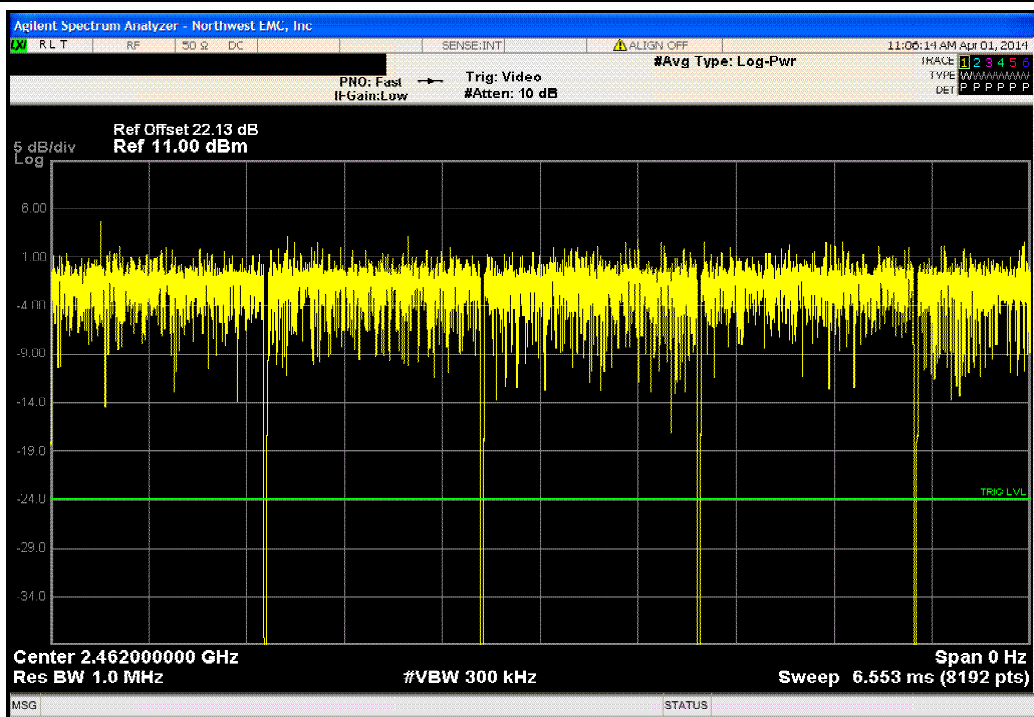
Antenna 0, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



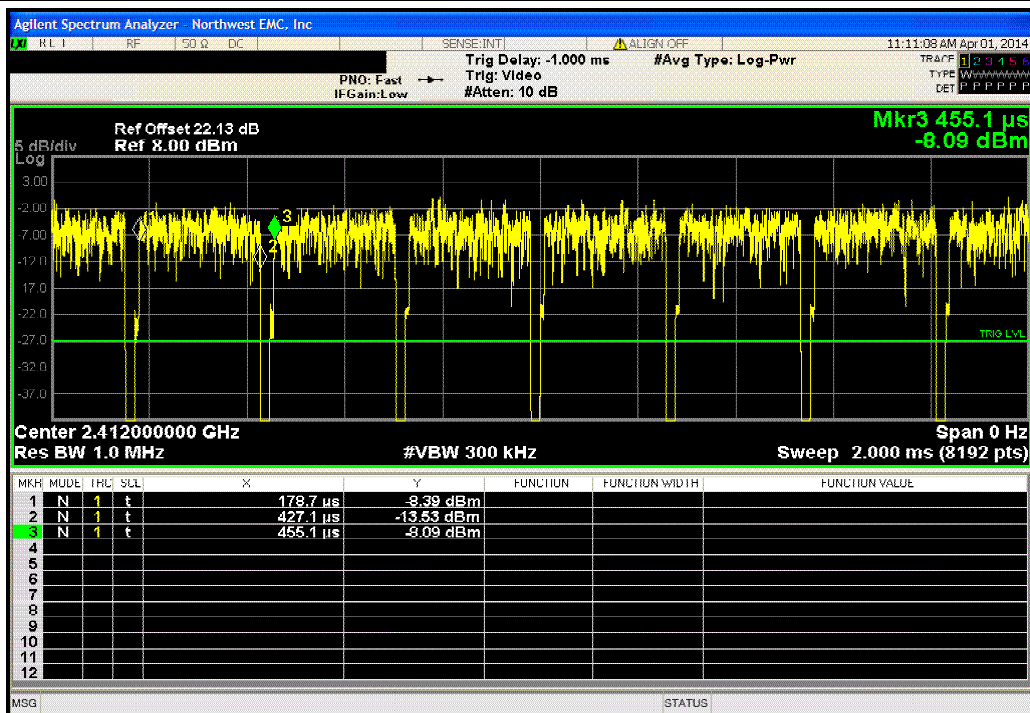
Antenna 0, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
33.7 uS	1.449 ms	1	2.3	N/A	N/A	



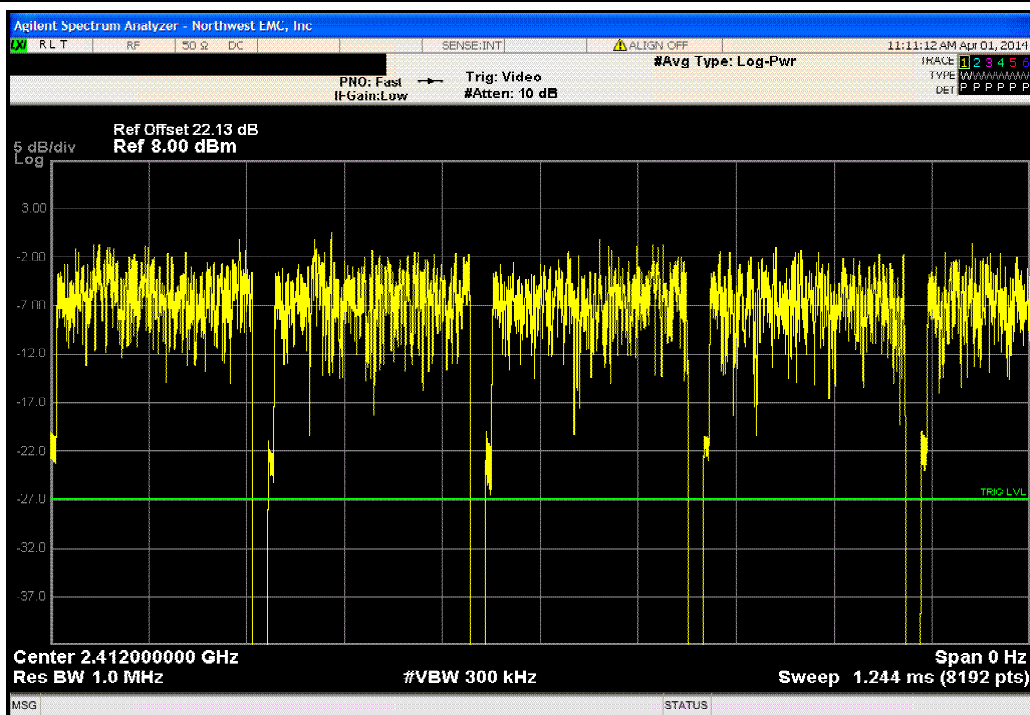
Antenna 0, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



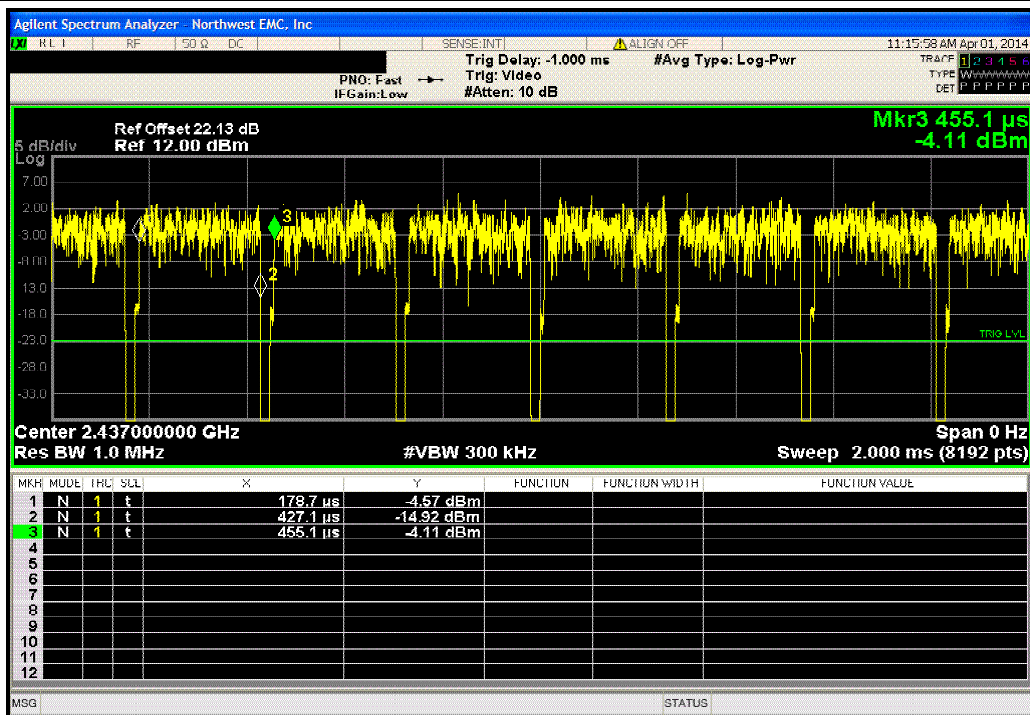
Antenna 0, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
248.4 uS	276.4 uS	1	89.9	N/A	N/A	



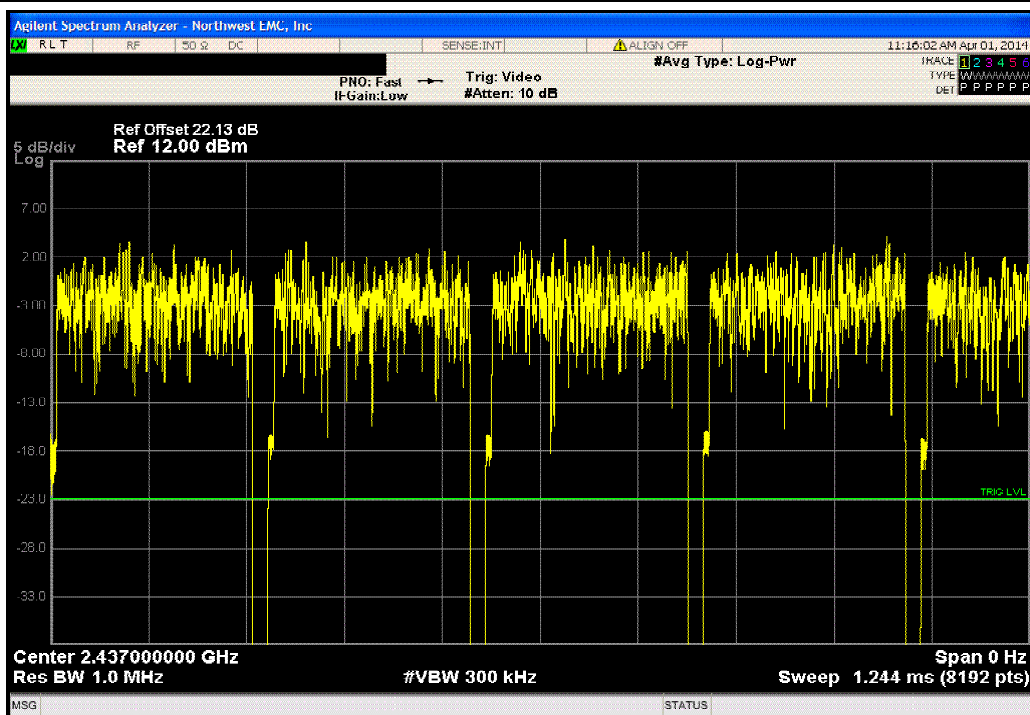
Antenna 0, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



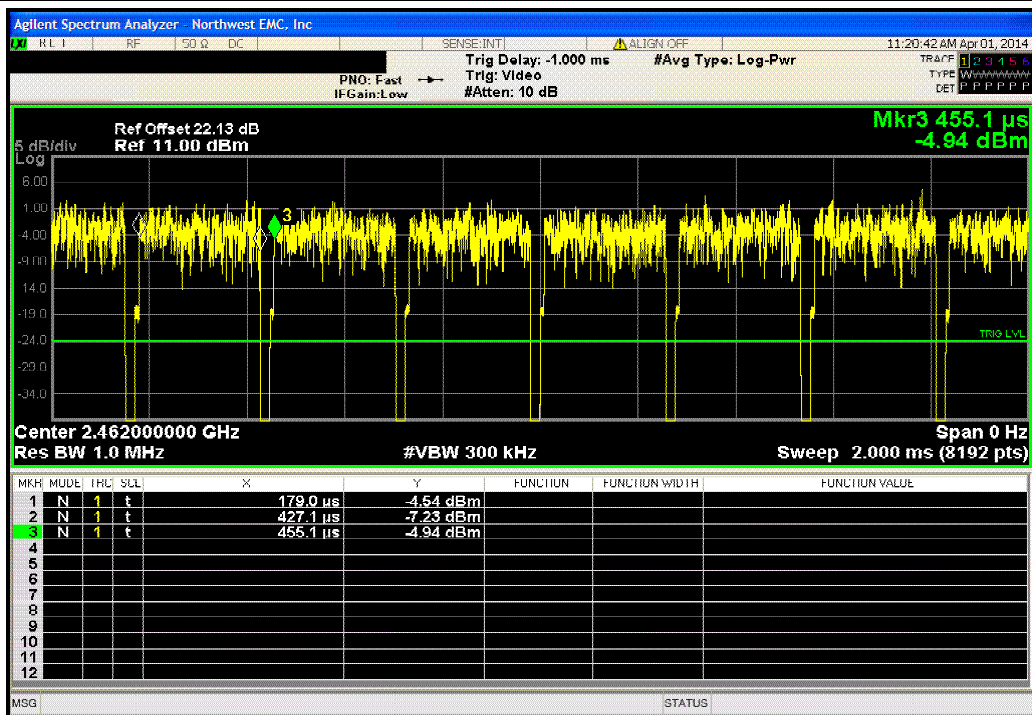
Antenna 0, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
248.4 uS	276.4 uS	1	89.9	N/A	N/A	



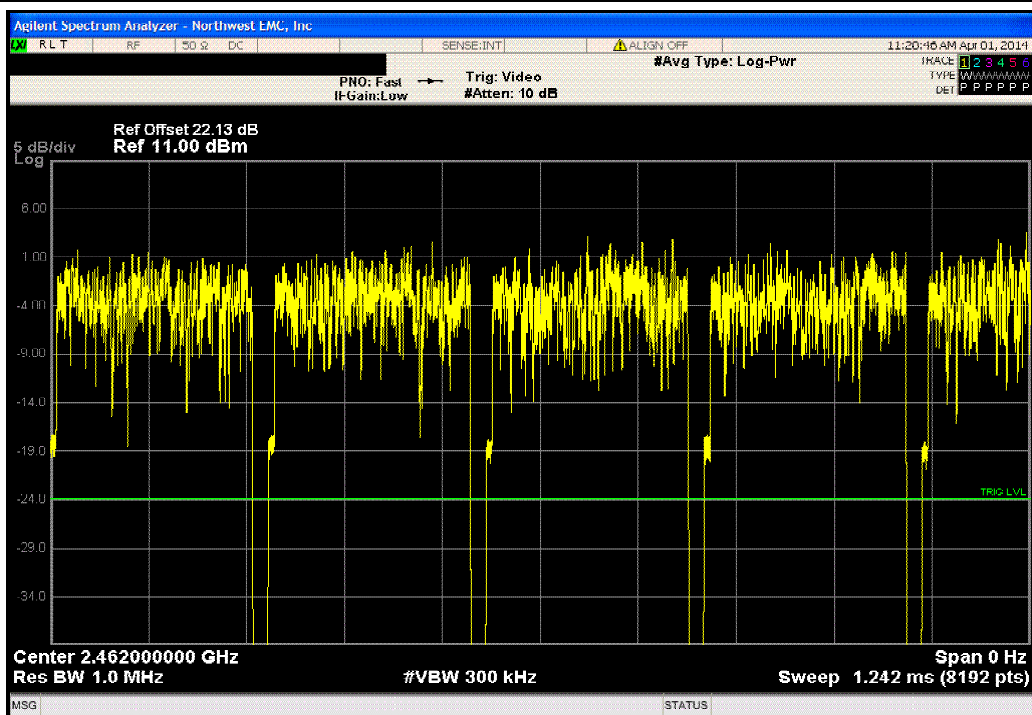
Antenna 0, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



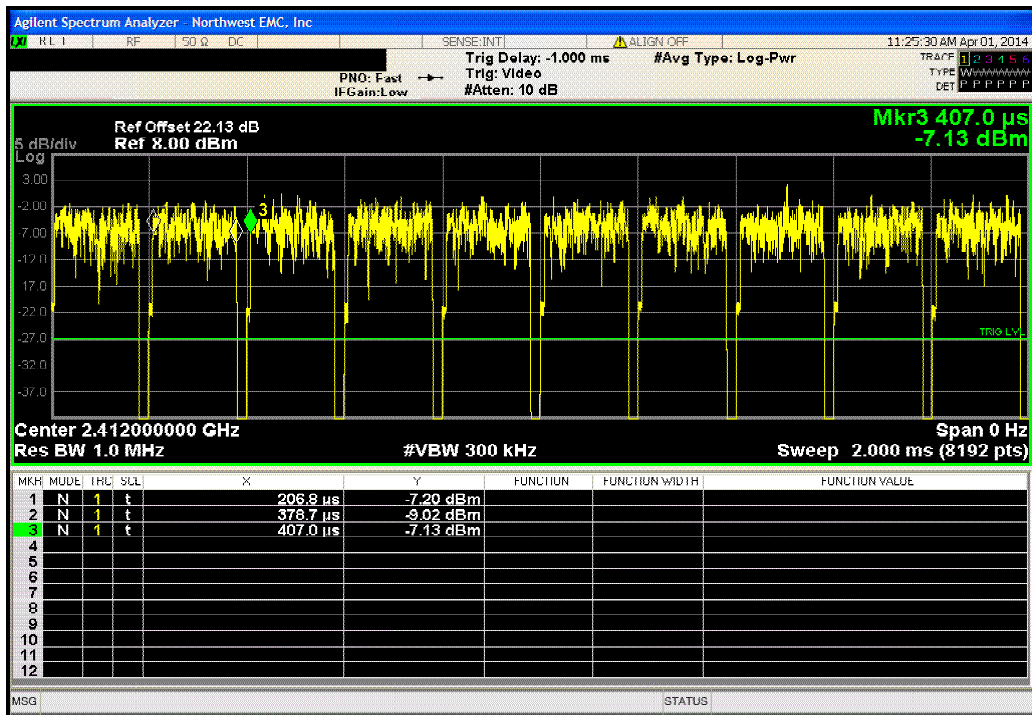
Antenna 0, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
248.1 uS	276.1 uS	1	89.9	N/A	N/A	



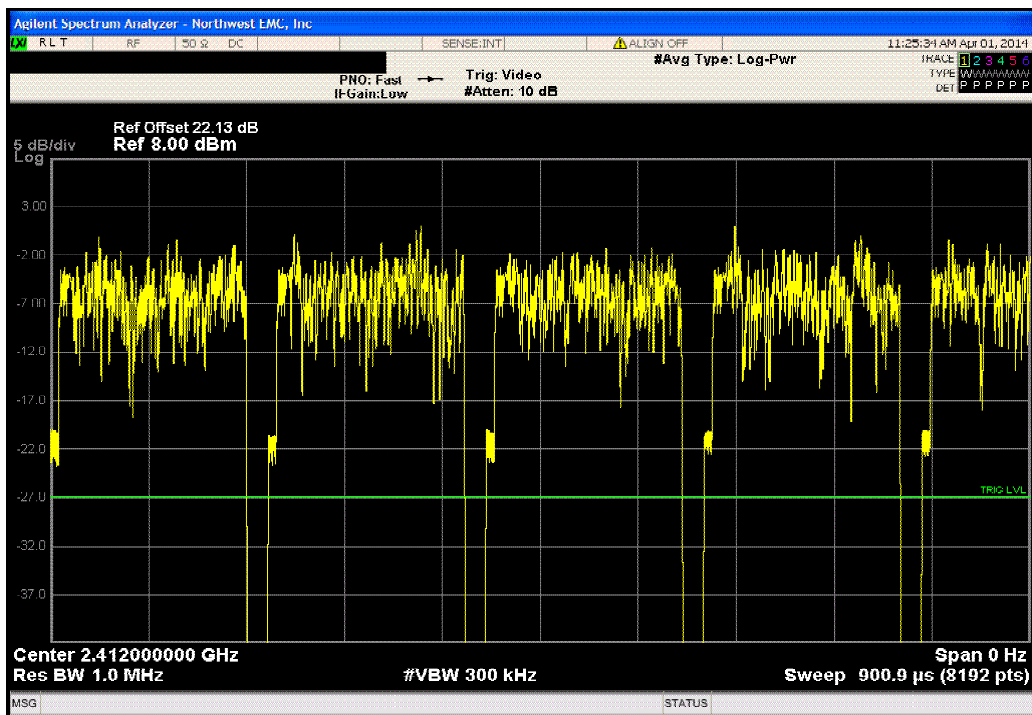
Antenna 0, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



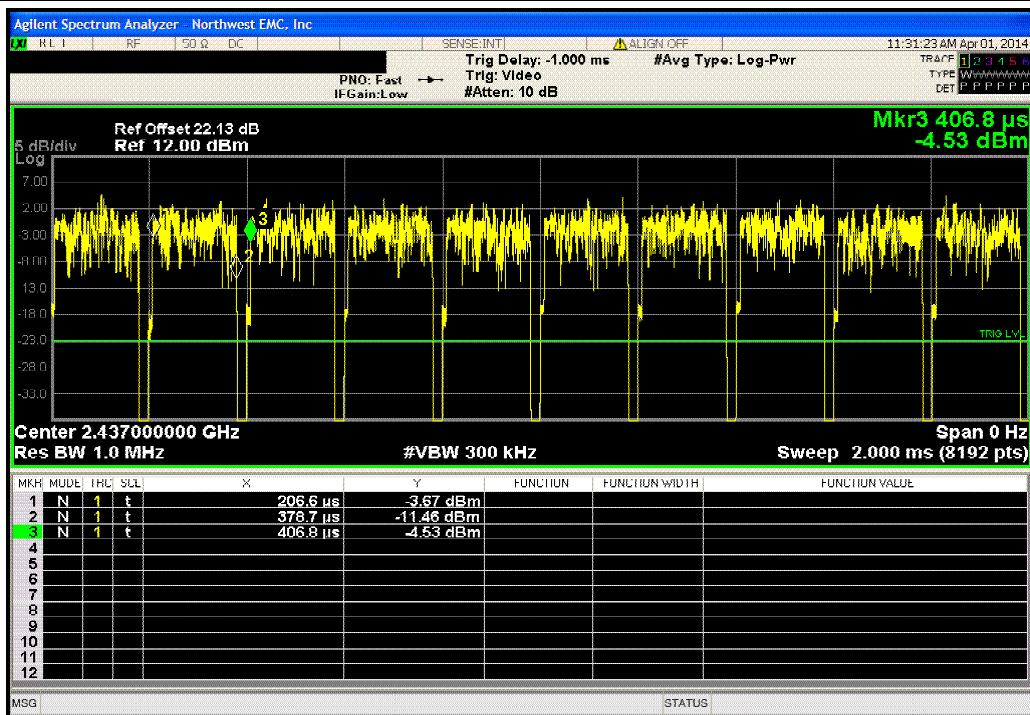
Antenna 0, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
171.9 uS	200.2 uS	1	85.9	N/A	N/A	



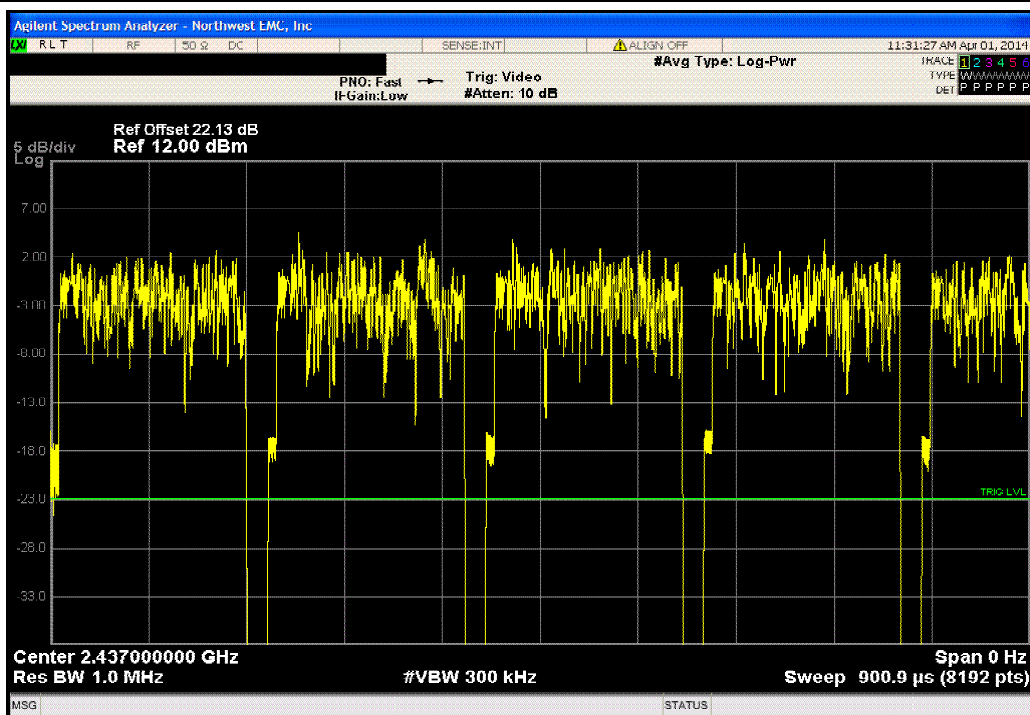
Antenna 0, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



Antenna 0, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
172.1 uS	200.2 uS	1	86	N/A	N/A	

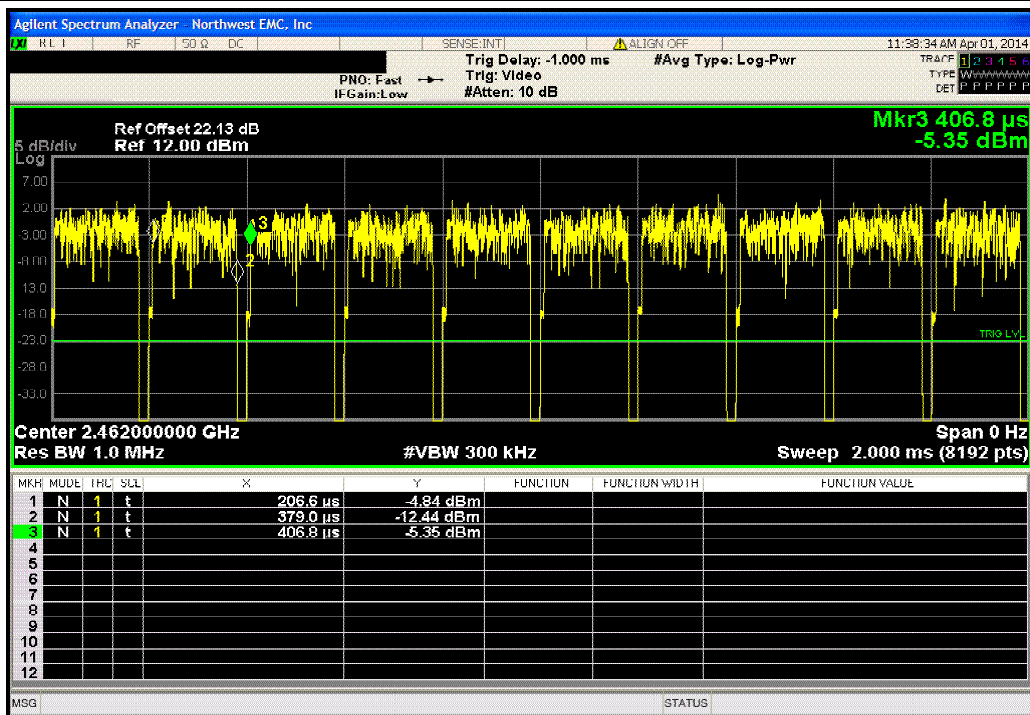


Antenna 0, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	6	N/A	N/A	N/A	



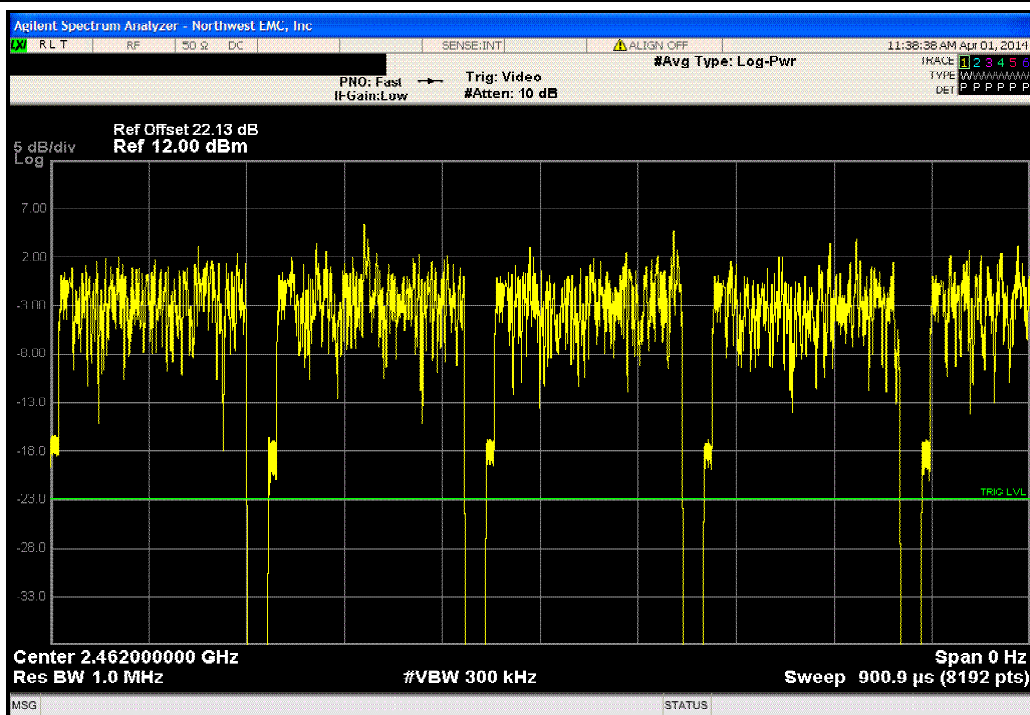
Antenna 0, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz

Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
172.4 uS	200.2 uS	1	86.1	N/A	N/A

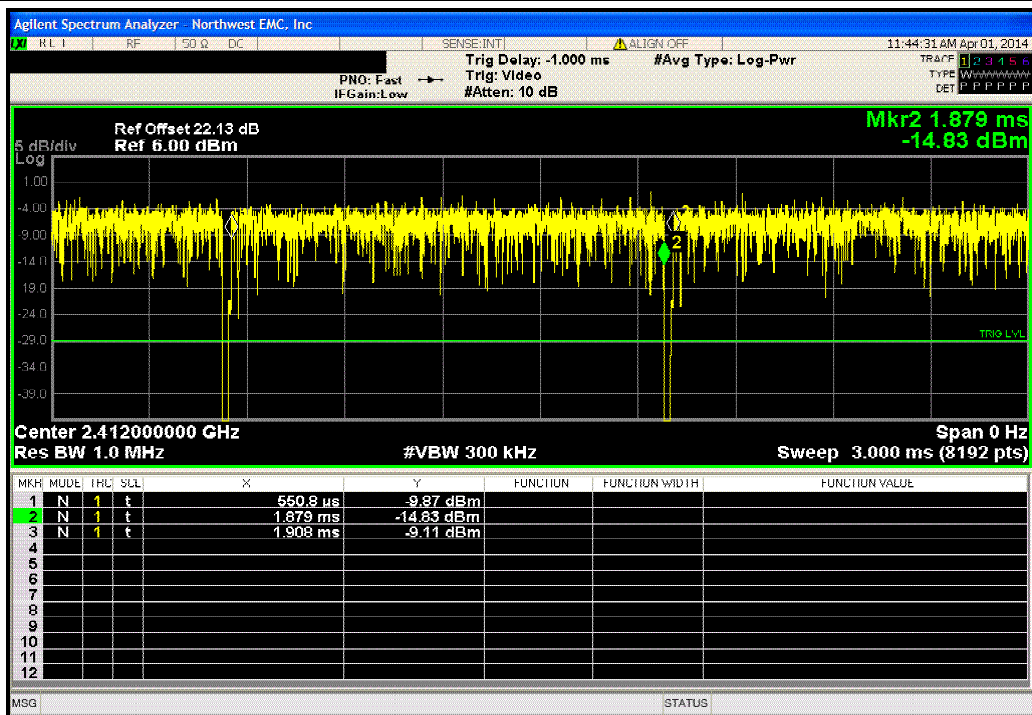


Antenna 0, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz

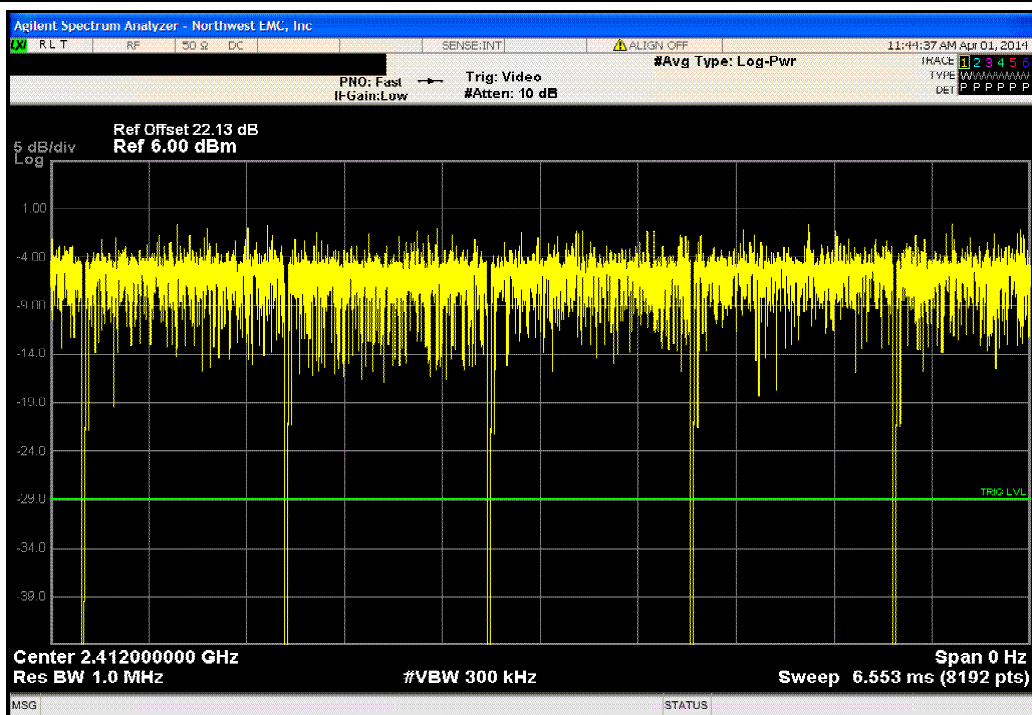
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
N/A	N/A	5	N/A	N/A	N/A



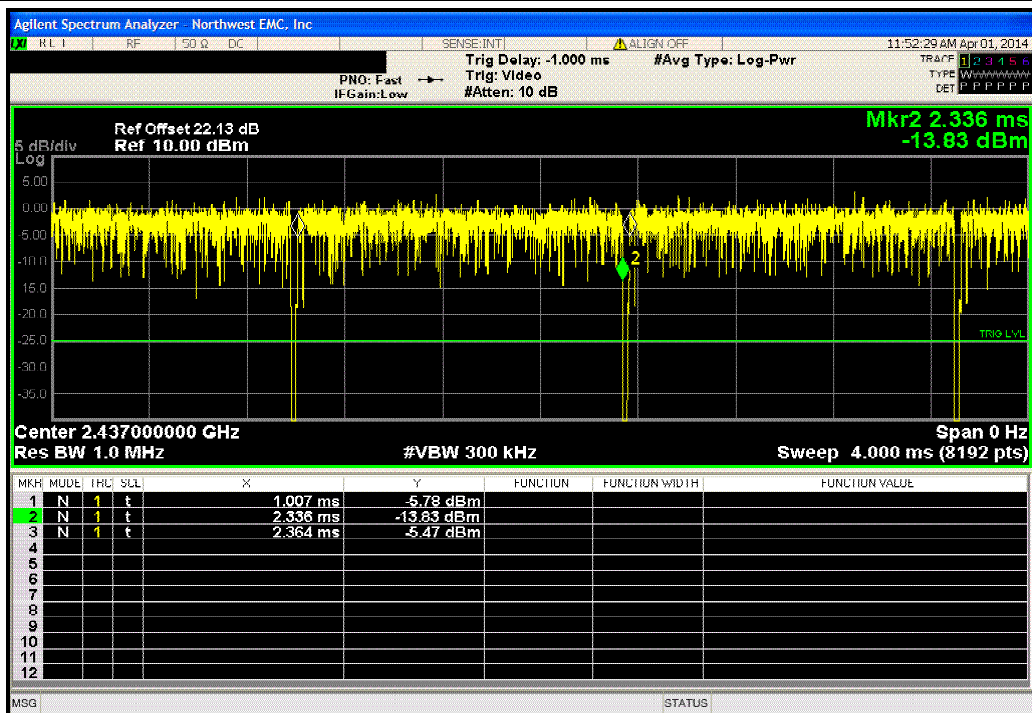
Antenna 0, 802.11(n) MCS0, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
1.329 mS	1.357 mS	1	97.9	N/A	N/A	



Antenna 0, 802.11(n) MCS0, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	6	N/A	N/A	N/A	



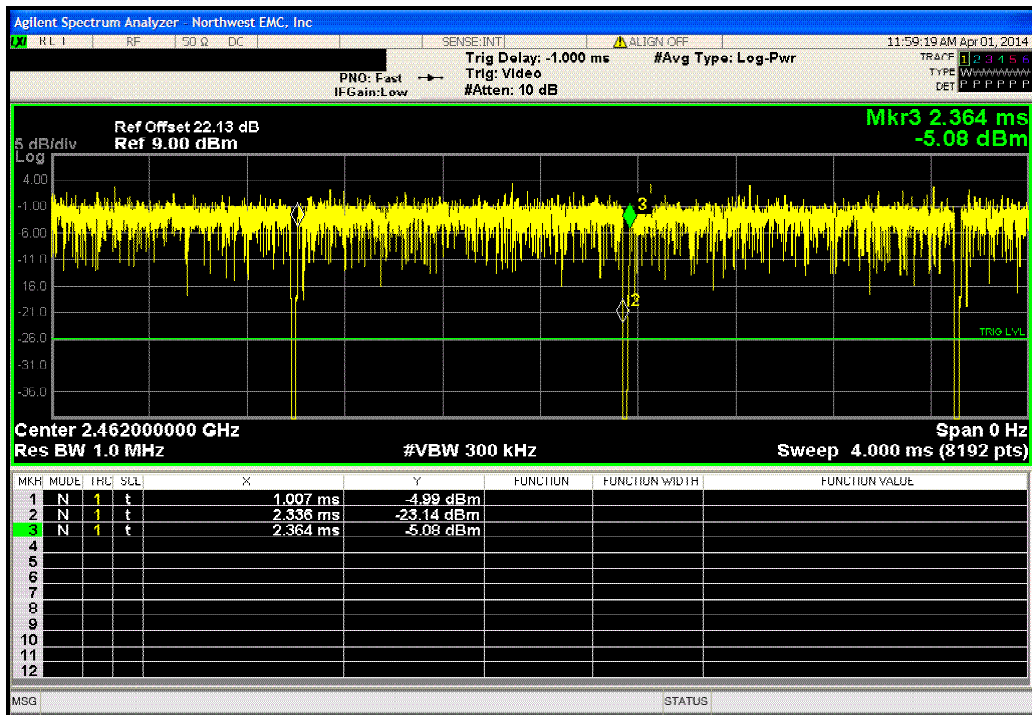
Antenna 0, 802.11(n) MCS0, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
1.329 mS	1.357 mS	1	97.9	N/A	N/A	



Antenna 0, 802.11(n) MCS0, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



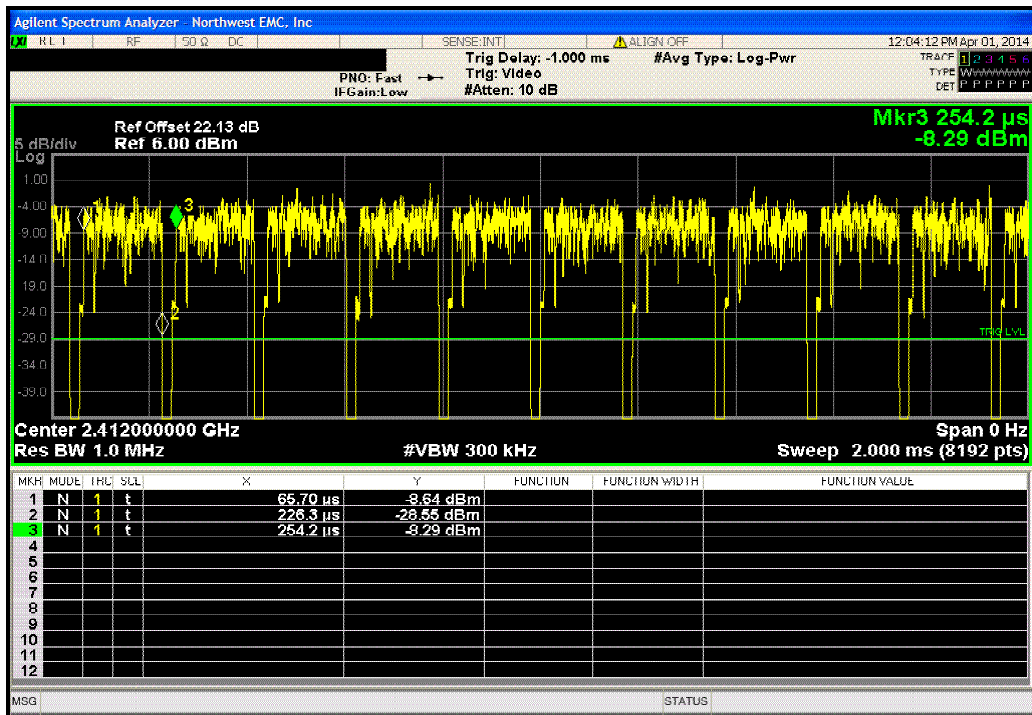
Antenna 0, 802.11(n) MCS0, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
1.329 mS	1.357 mS	1	97.9	N/A	N/A	



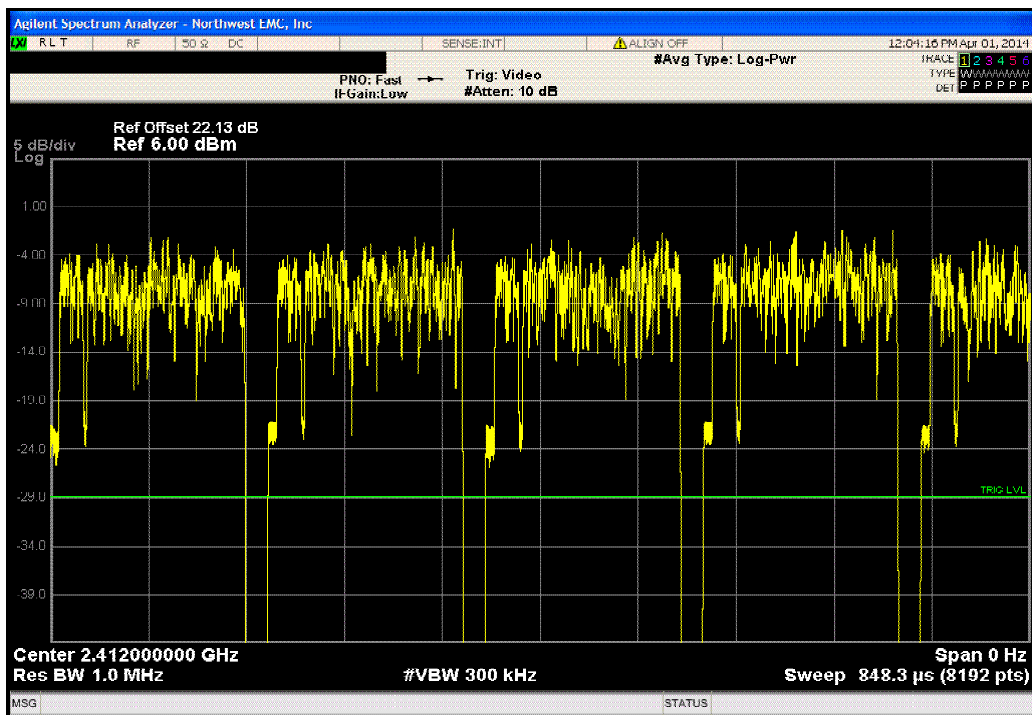
Antenna 0, 802.11(n) MCS0, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



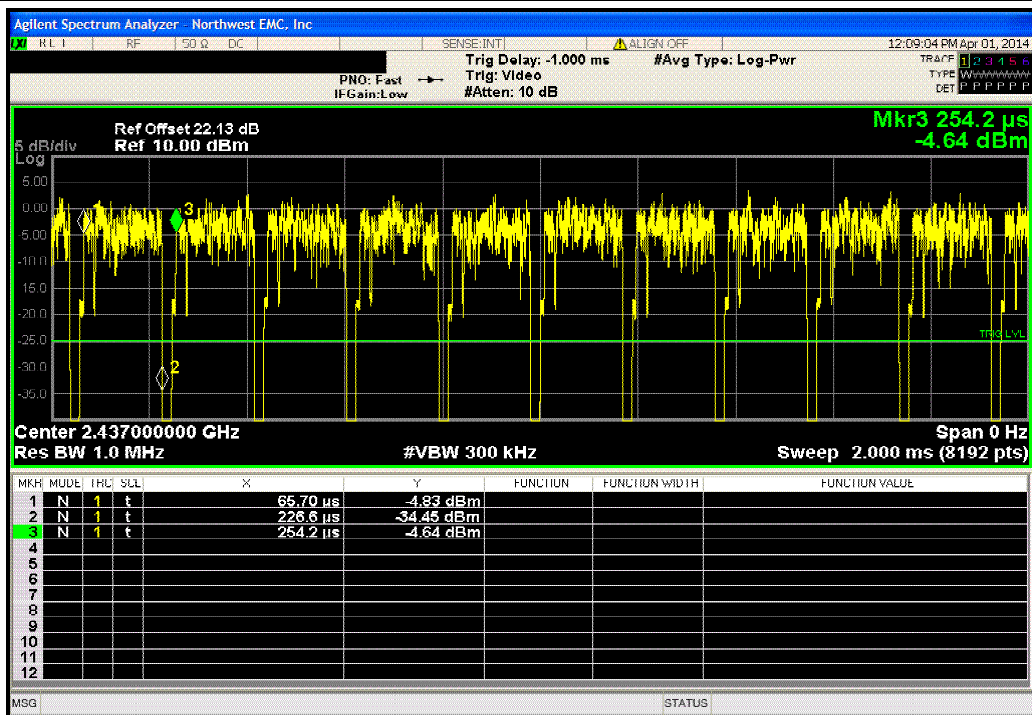
Antenna 0, 802.11(n) MCS7, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
160.6 μ S	188.5 μ S	1	85.2	N/A	N/A	



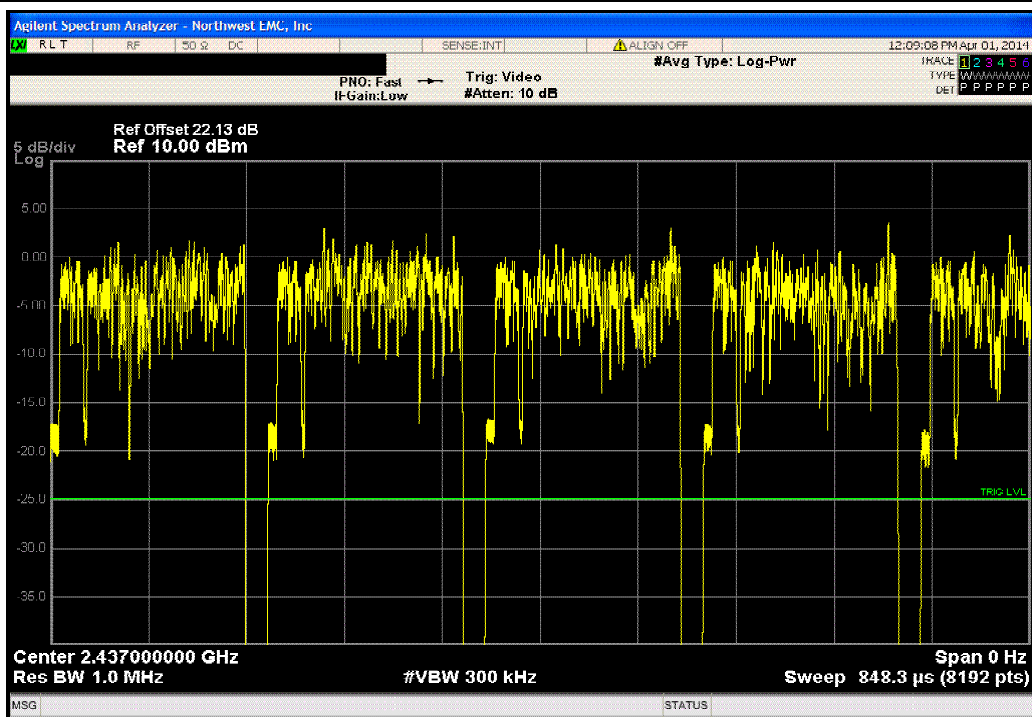
Antenna 0, 802.11(n) MCS7, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



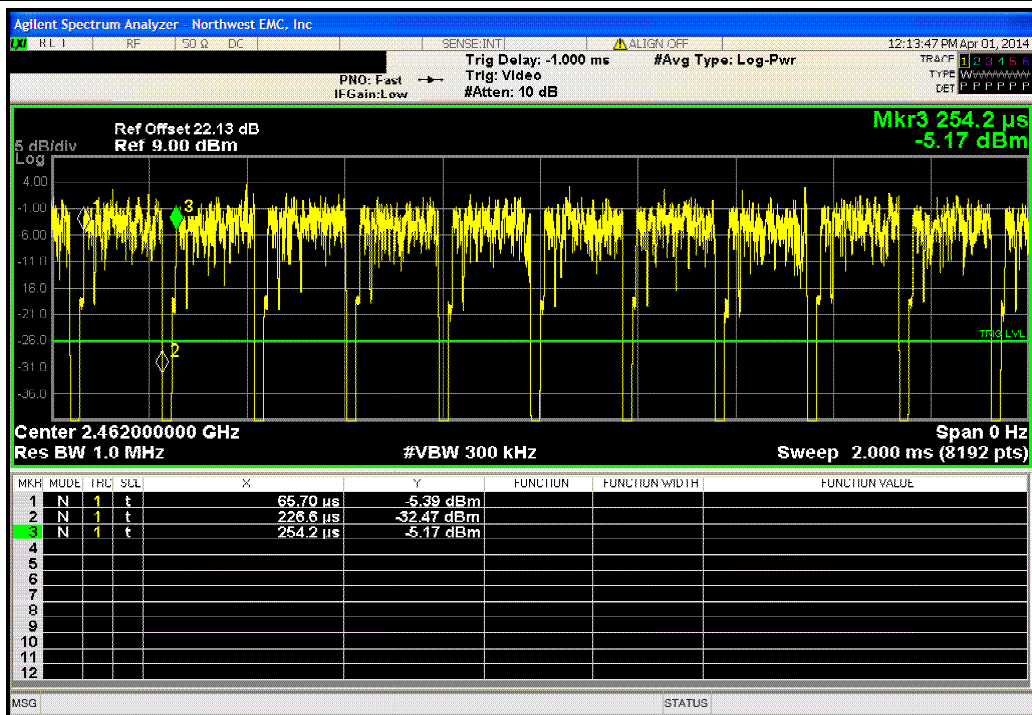
Antenna 0, 802.11(n) MCS7, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
160.9 uS	188.5 uS	1	85.4	N/A	N/A	



Antenna 0, 802.11(n) MCS7, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



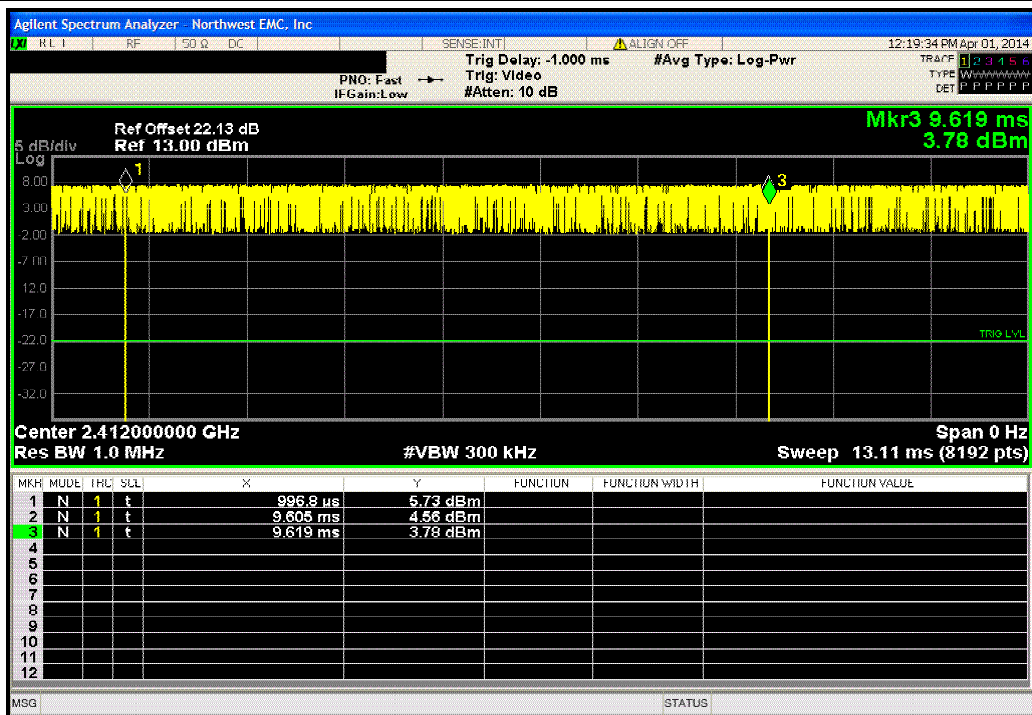
Antenna 0, 802.11(n) MCS7, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
160.9 μ S	188.5 μ S	1	85.4	N/A	N/A	



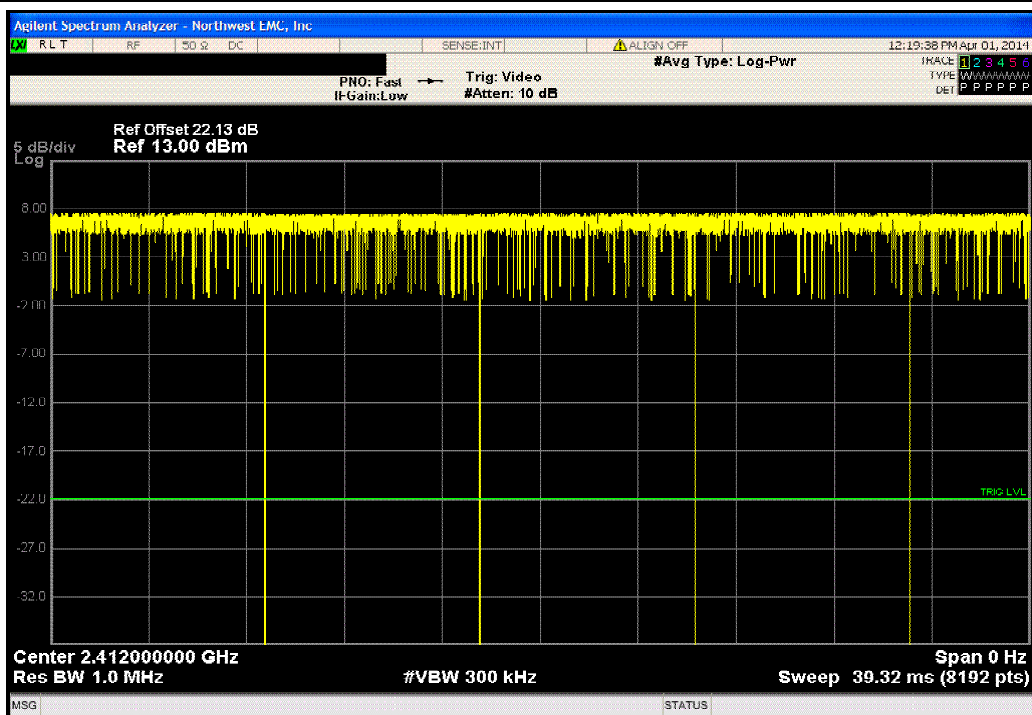
Antenna 0, 802.11(n) MCS7, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



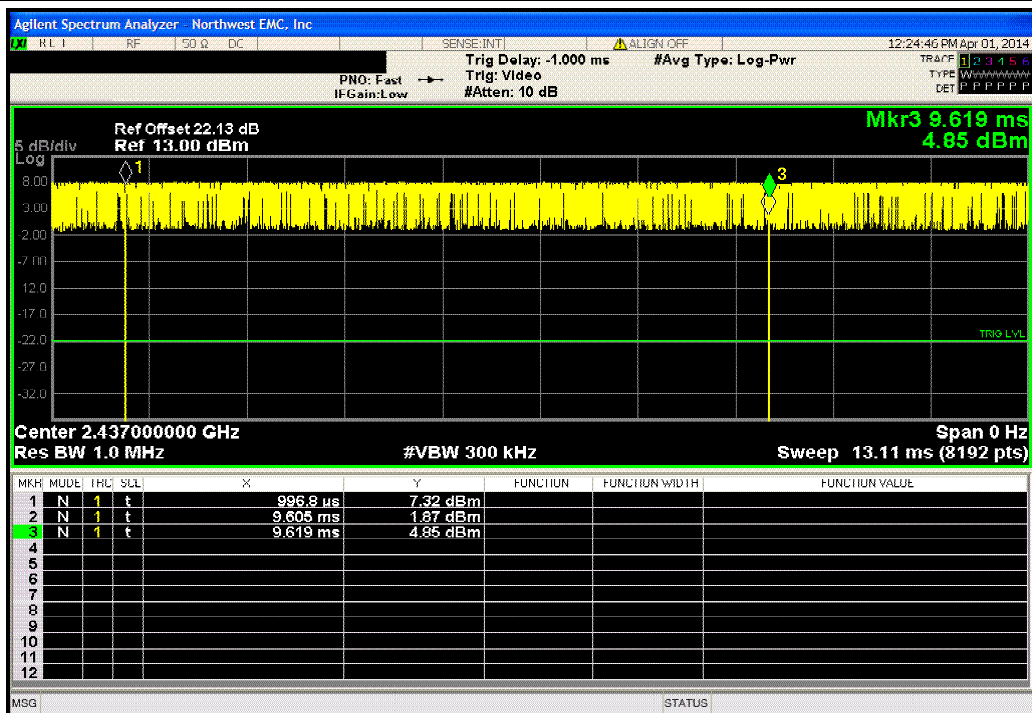
Antenna 1, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
8.608 mS	8.622 mS	1	99.8	N/A	N/A	



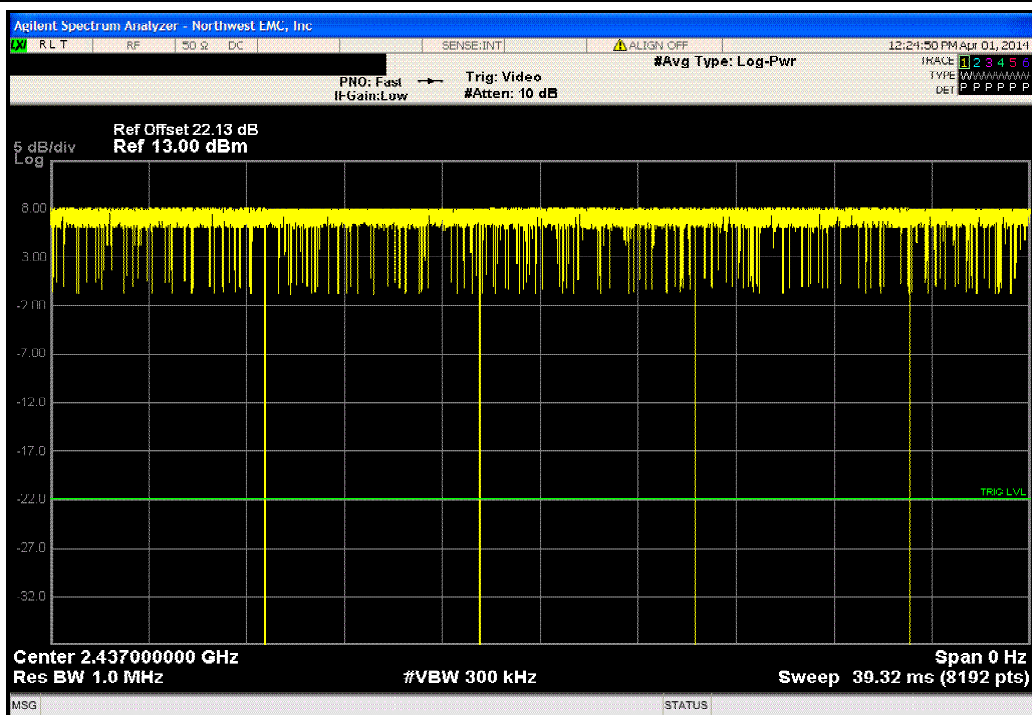
Antenna 1, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



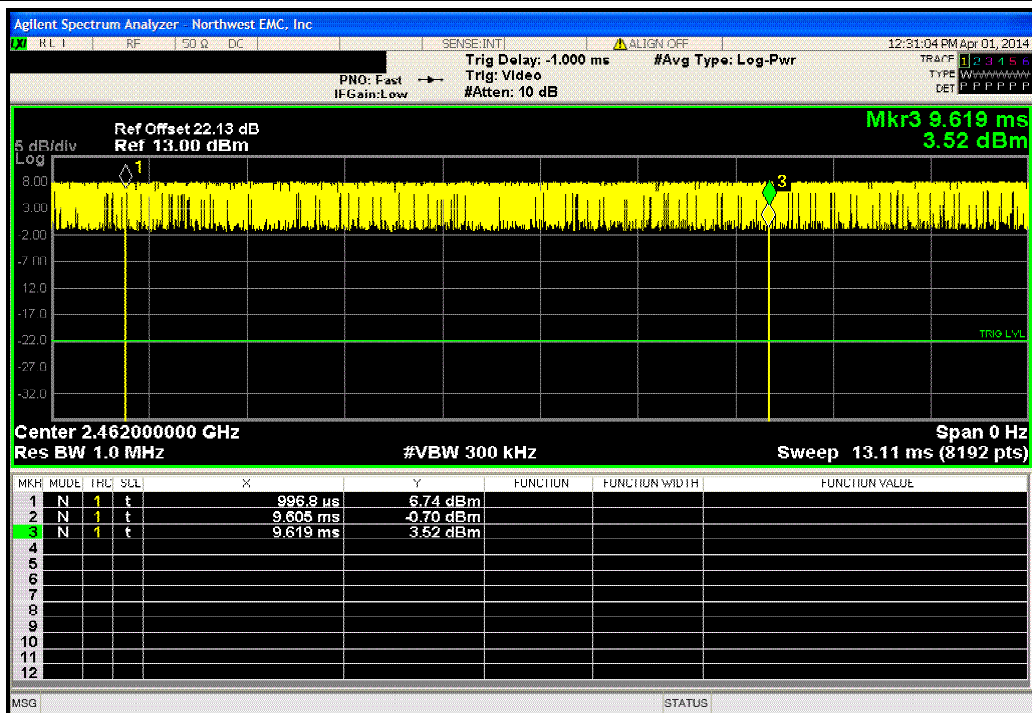
Antenna 1, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
8.608 mS	8.622 mS	1	99.8	N/A	N/A	



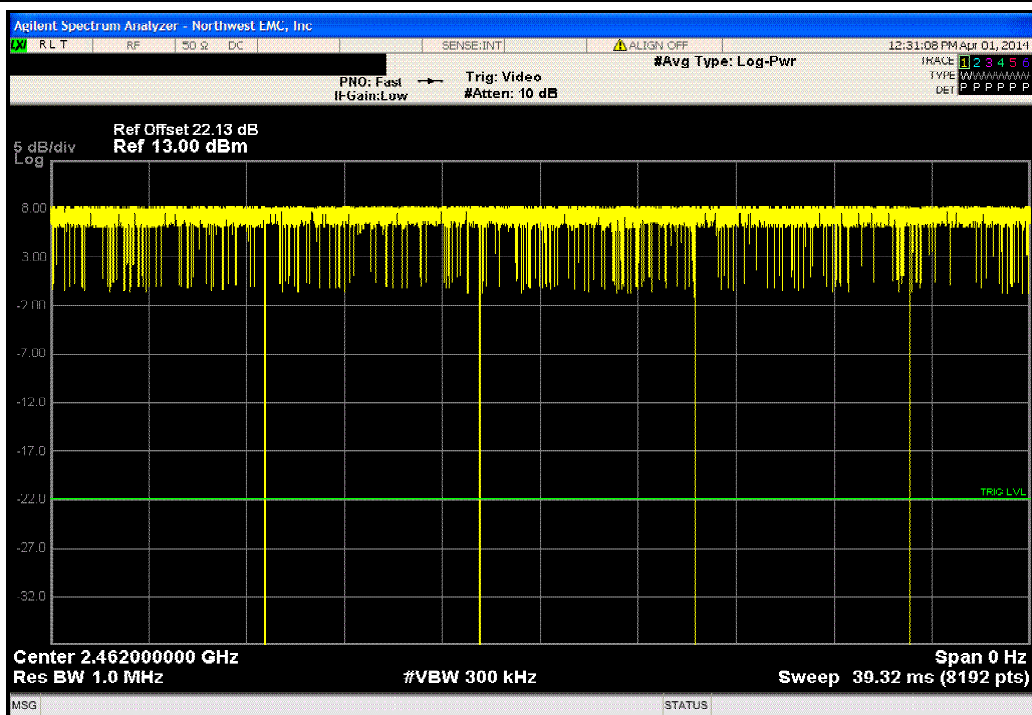
Antenna 1, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



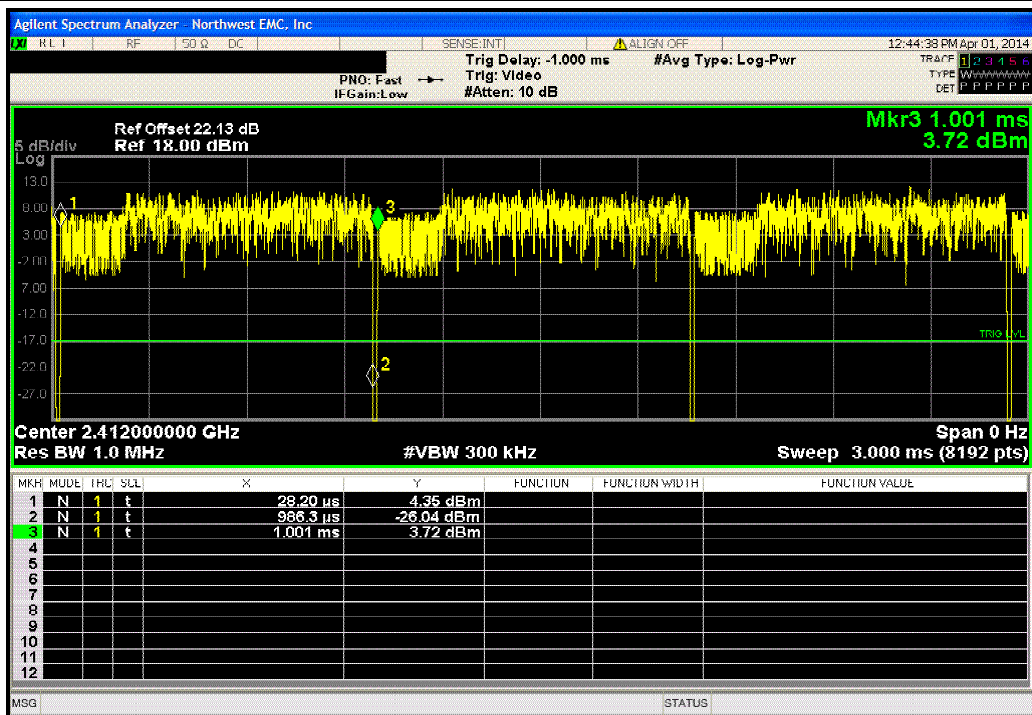
Antenna 1, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
8.608 mS	8.622 mS	1	99.8	N/A	N/A	



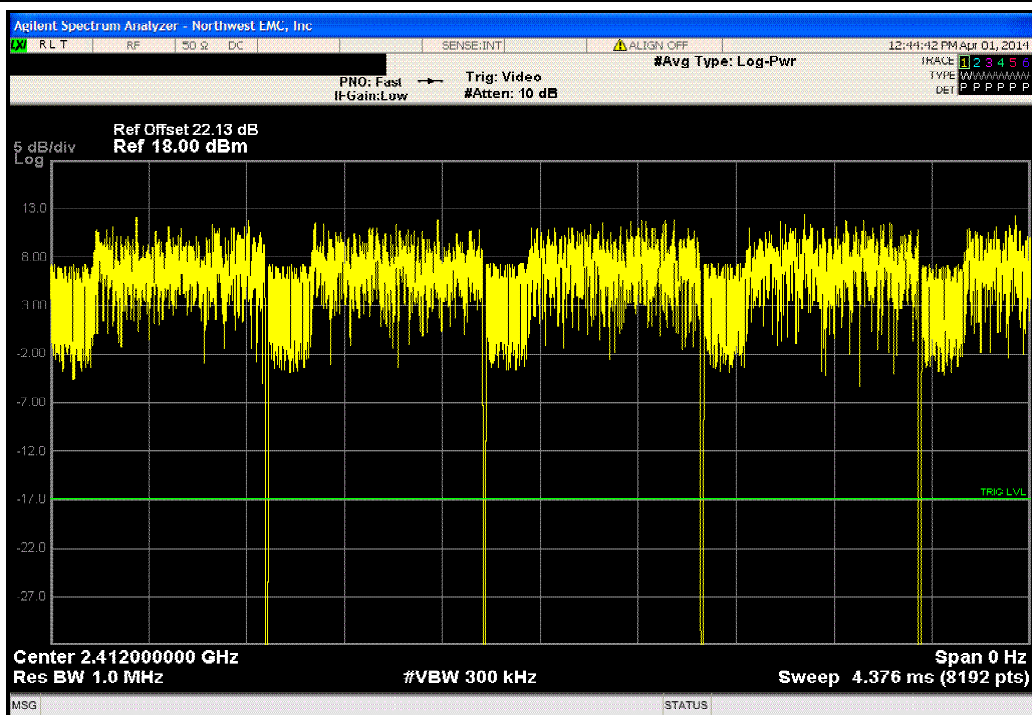
Antenna 1, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



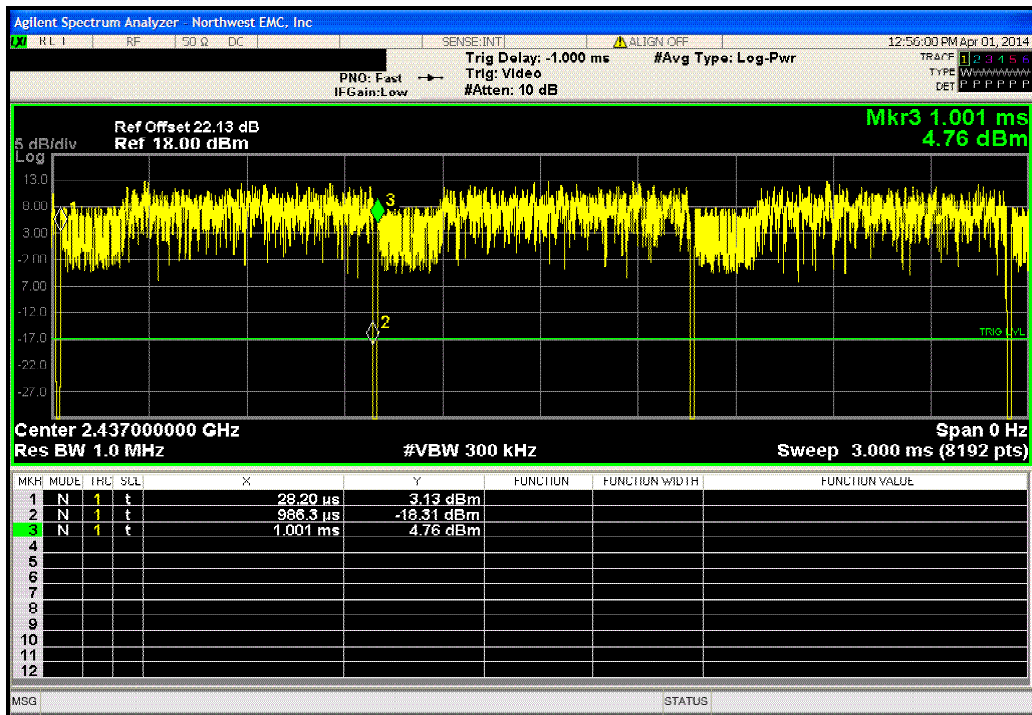
Antenna 1, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
958.1 uS	972.4 uS	1	98.5	N/A	N/A	



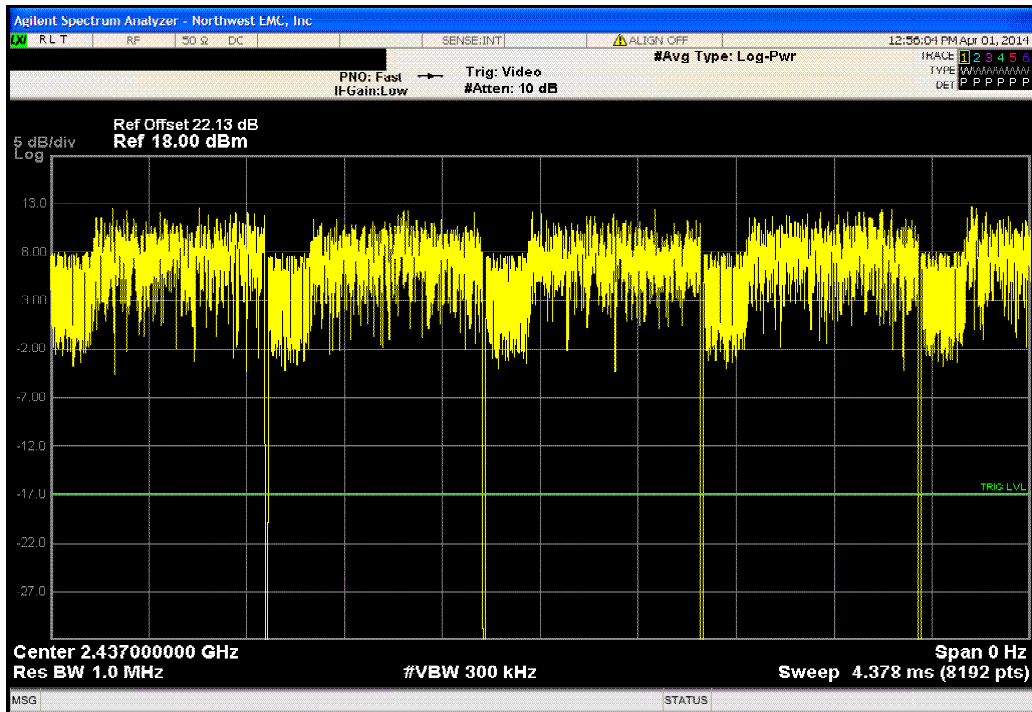
Antenna 1, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



Antenna 1, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
958.1 uS	972.8 uS	1	98.5	N/A	N/A	

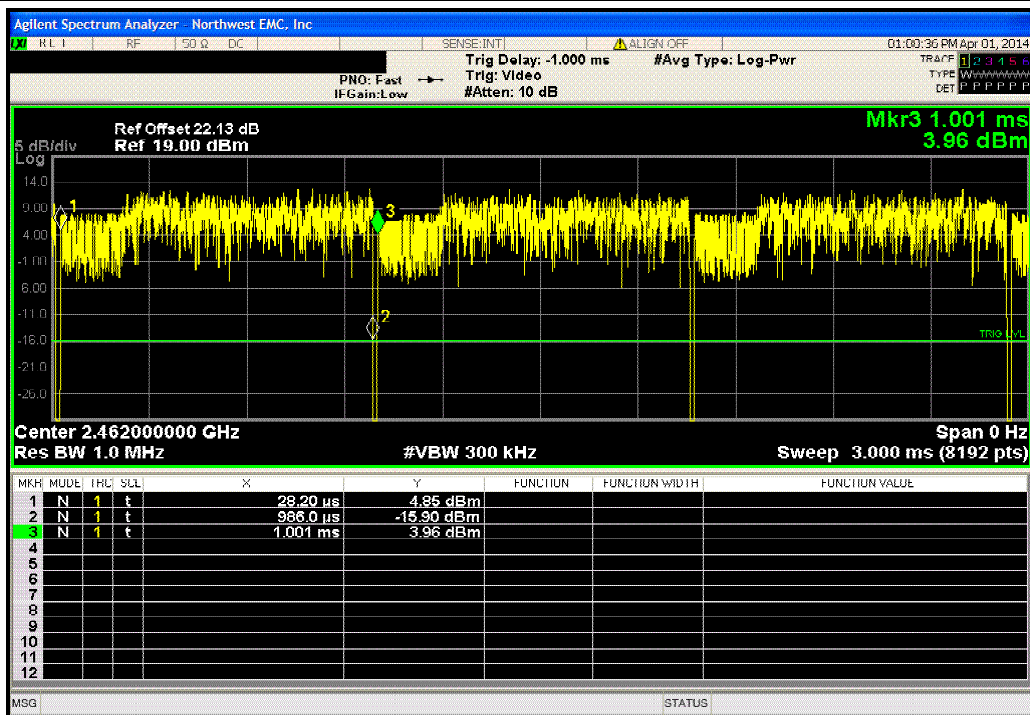


Antenna 1, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



Antenna 1, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz

Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
957.8 uS	972.4 uS	1	98.5	N/A	N/A

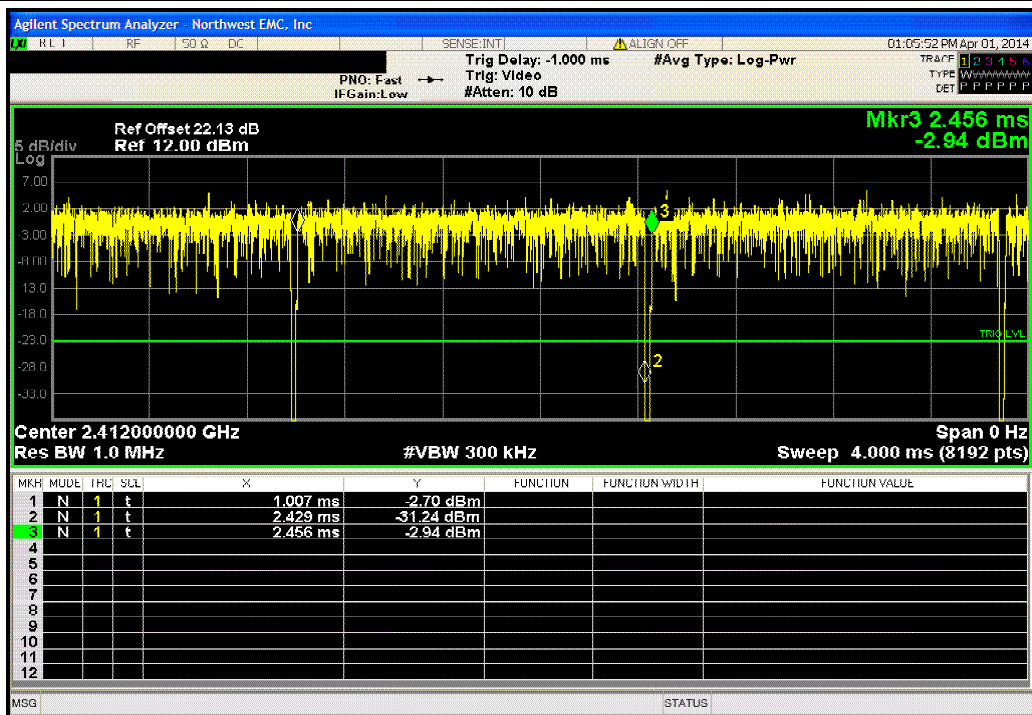


Antenna 1, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz

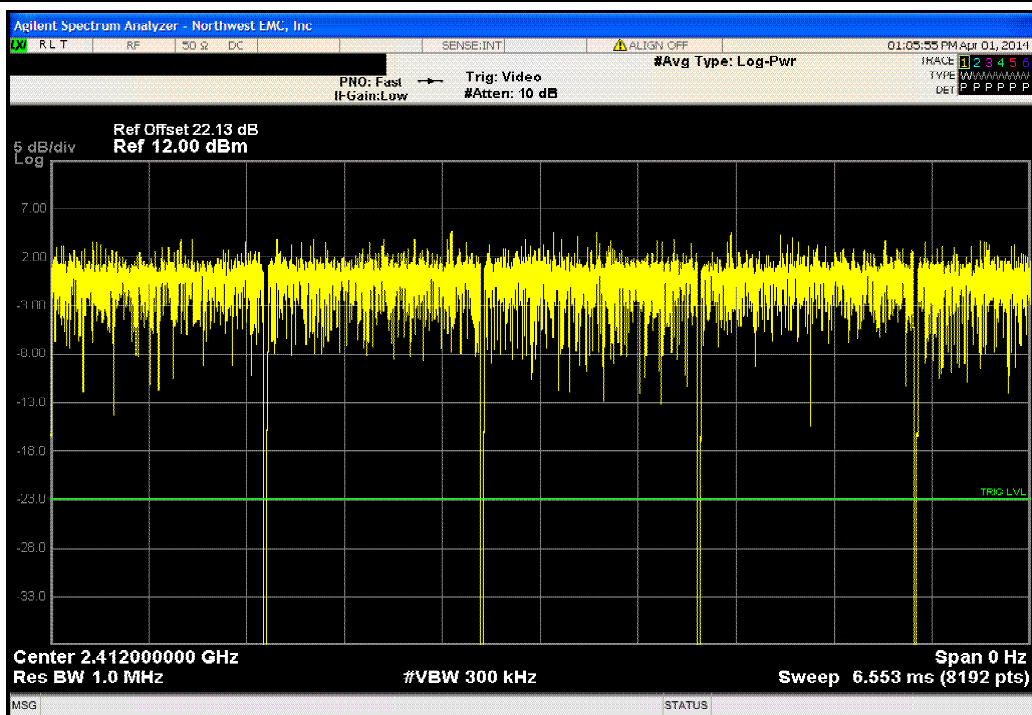
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
N/A	N/A	5	N/A	N/A	N/A



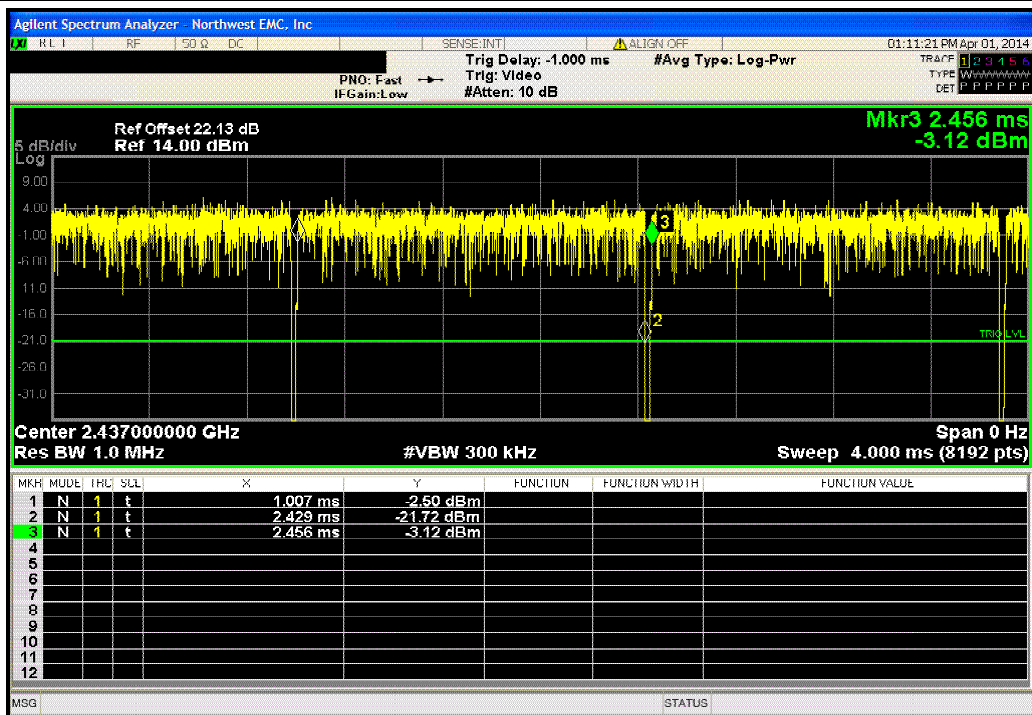
Antenna 1, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
1.421 mS	1.449 mS	1	98.1	N/A	N/A	



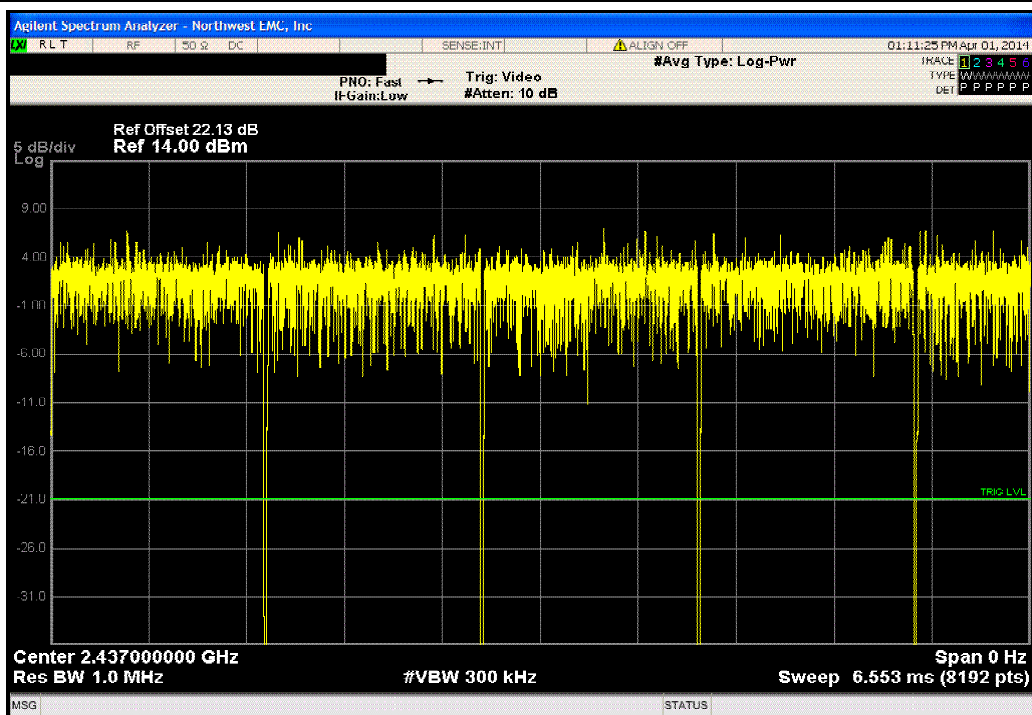
Antenna 1, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



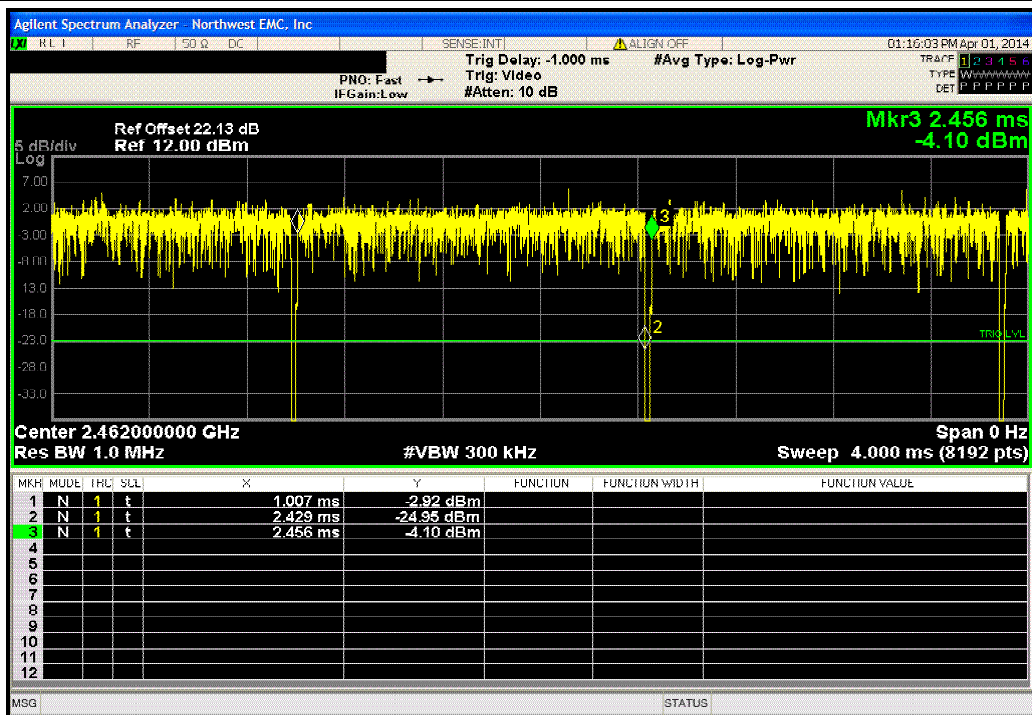
Antenna 1, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
1.421 mS	1.449 mS	1	98.1	N/A	N/A	



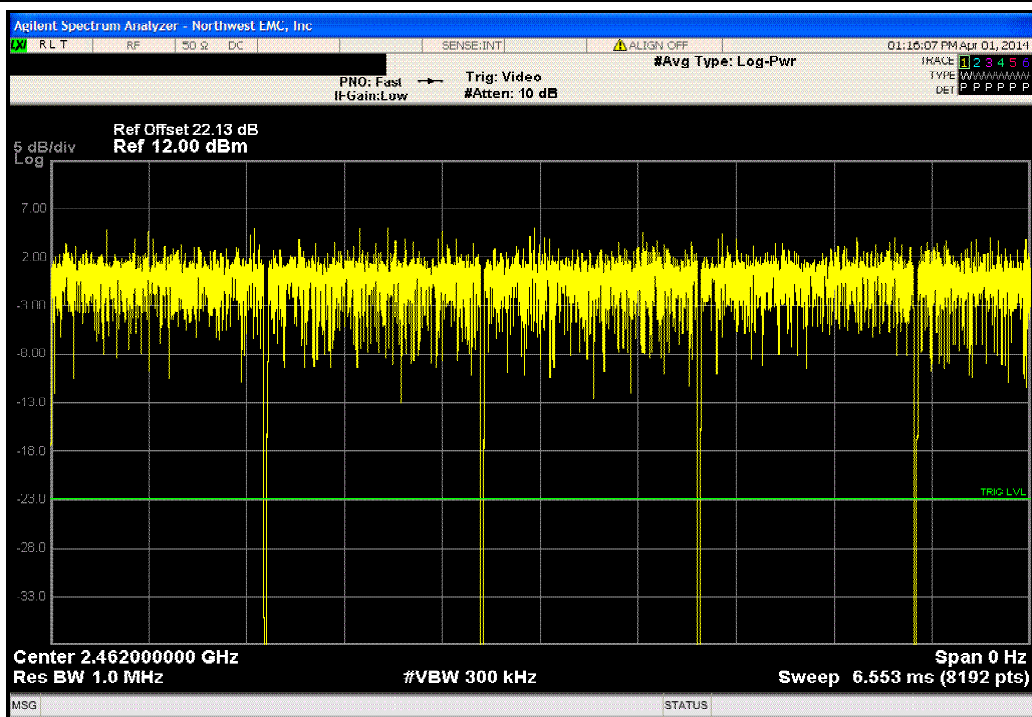
Antenna 1, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



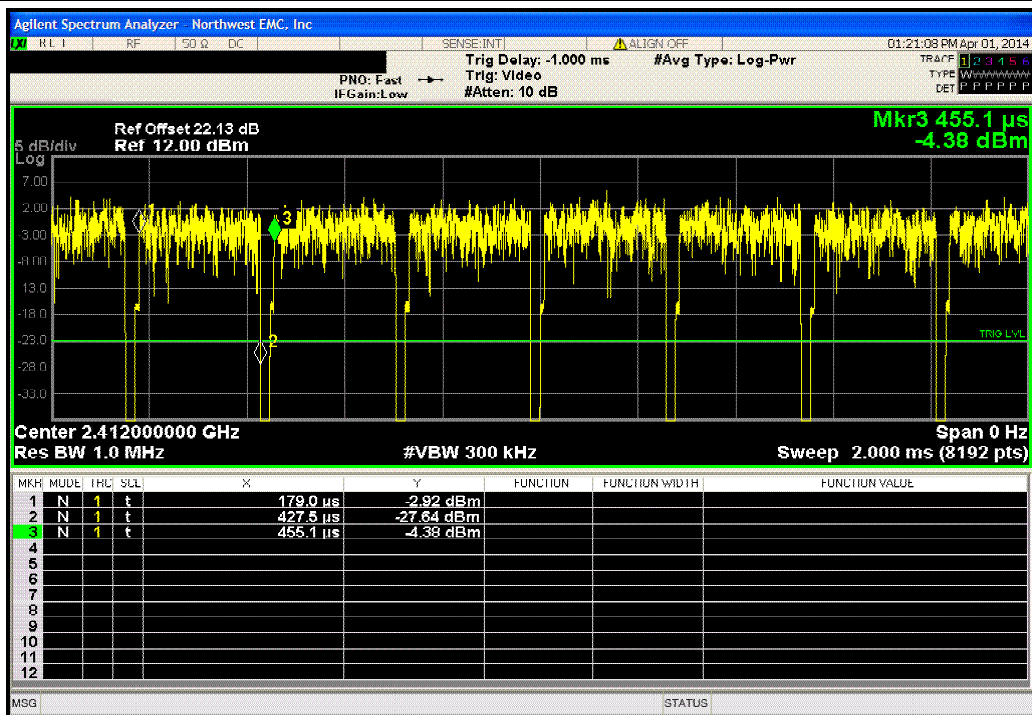
Antenna 1, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
1.421 mS	1.449 mS	1	98.1	N/A	N/A	



Antenna 1, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



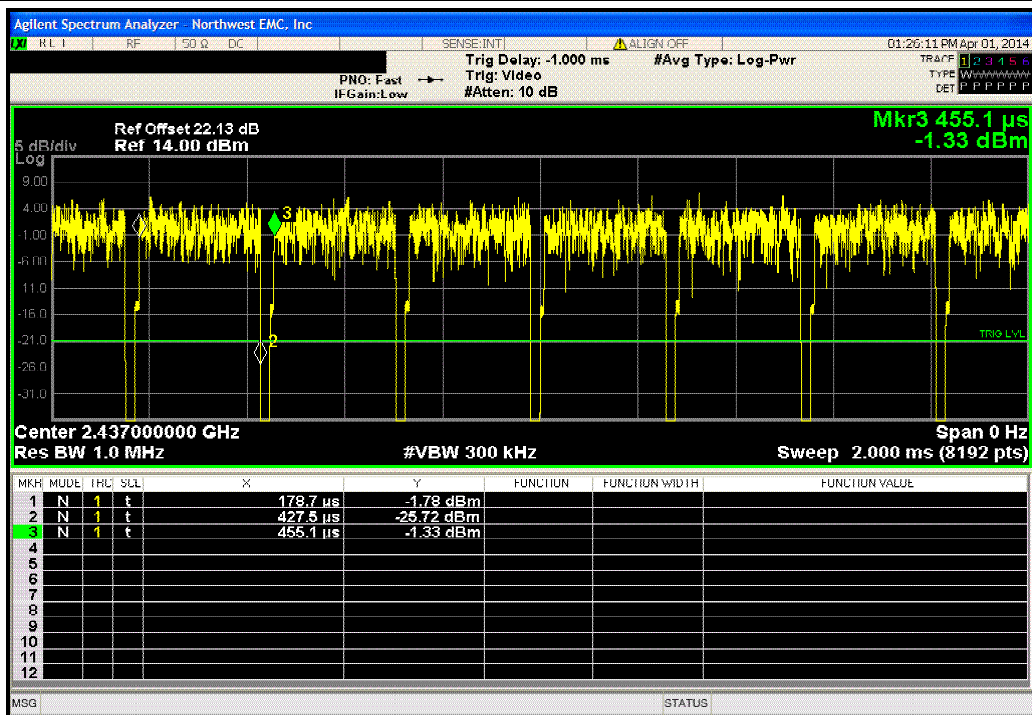
Antenna 1, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	248.5 uS	276.1 uS	1	90	N/A	N/A



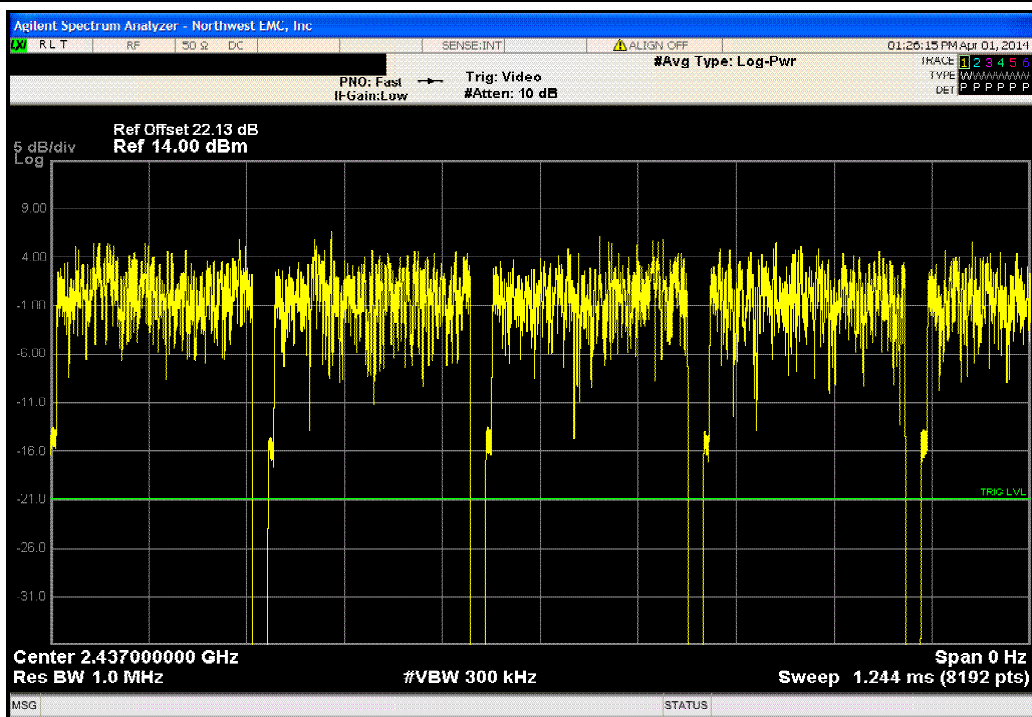
Antenna 1, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz						
	Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A



Antenna 1, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
248.8 uS	276.4 uS	1	90	N/A	N/A	

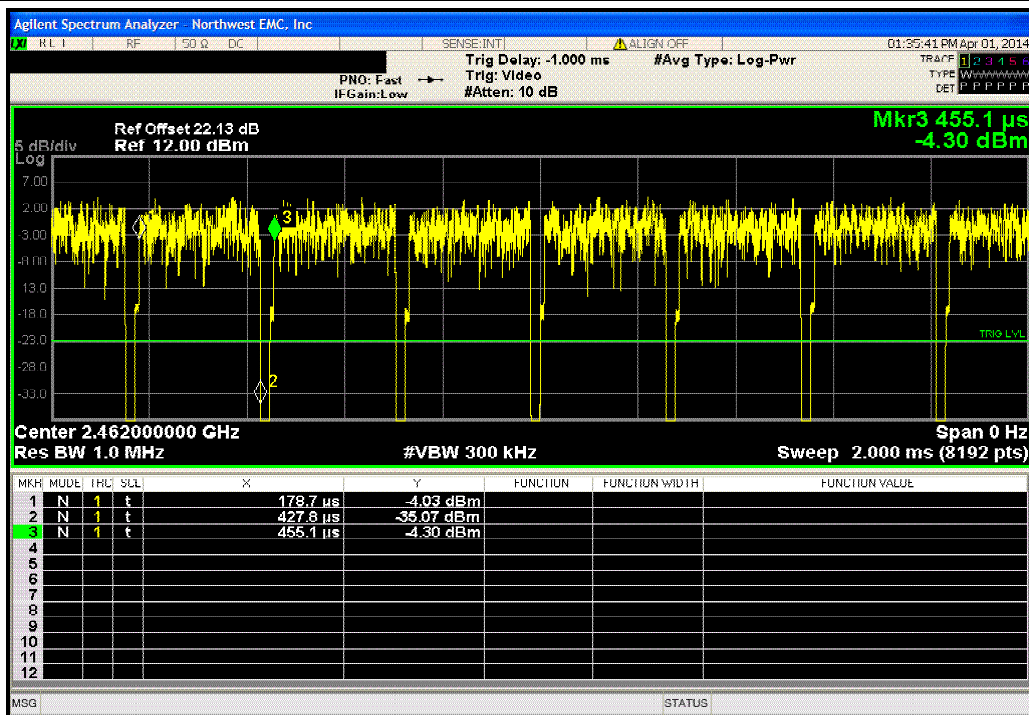


Antenna 1, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



Antenna 1, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz

Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
249.1 uS	276.4 uS	1	90.1	N/A	N/A

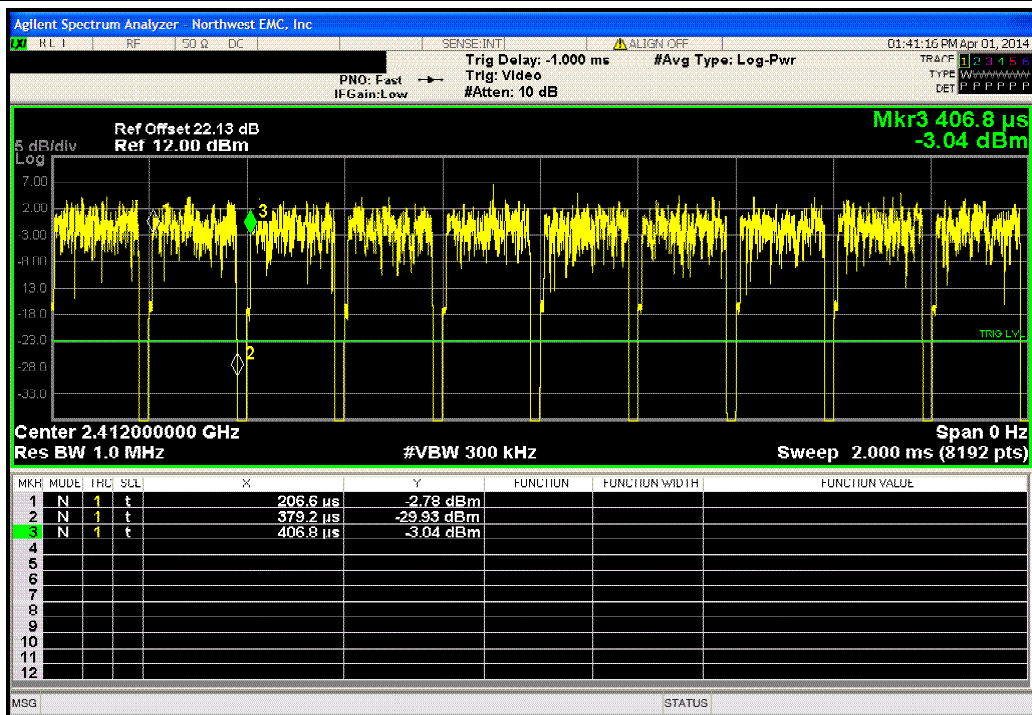


Antenna 1, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz

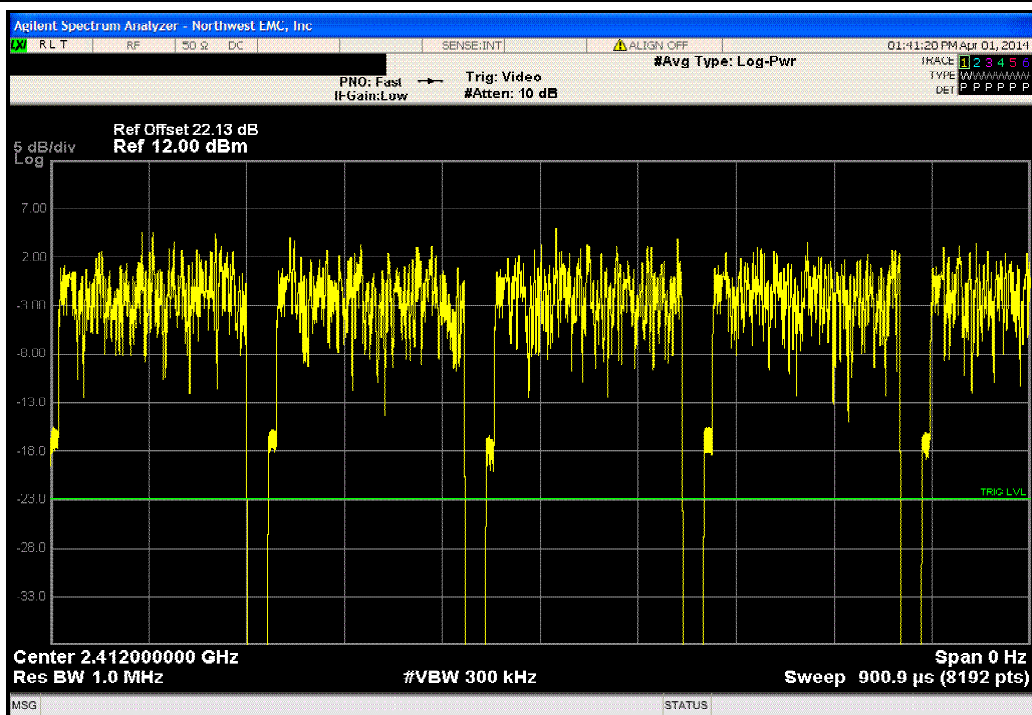
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
N/A	N/A	5	N/A	N/A	N/A



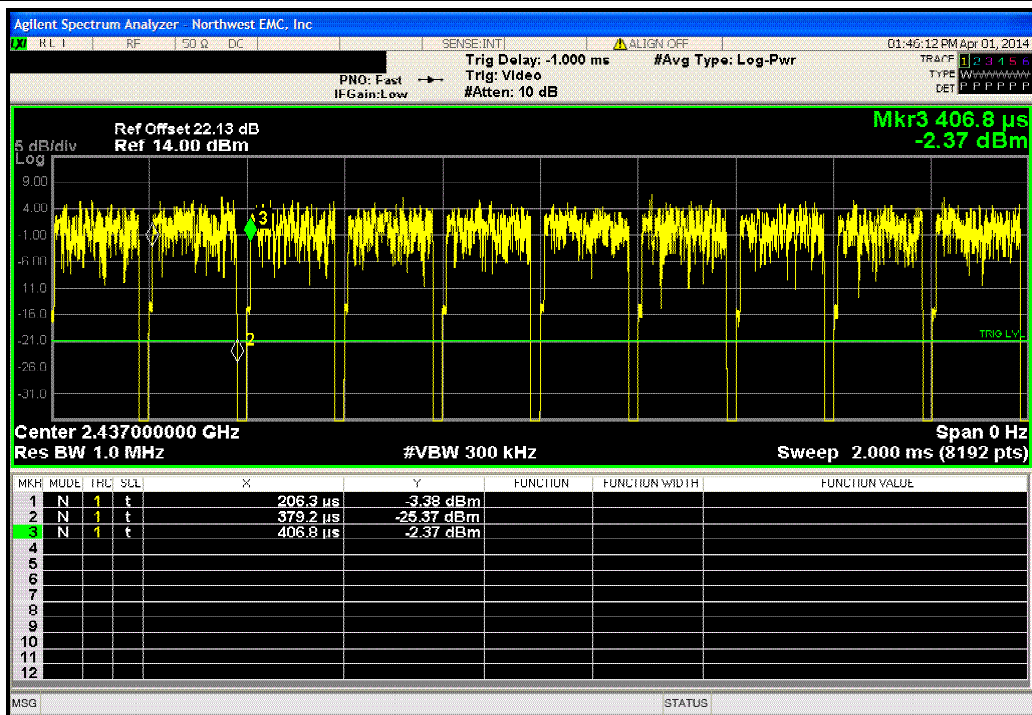
Antenna 1, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
172.6 uS	200.2 uS	1	86.2	N/A	N/A	



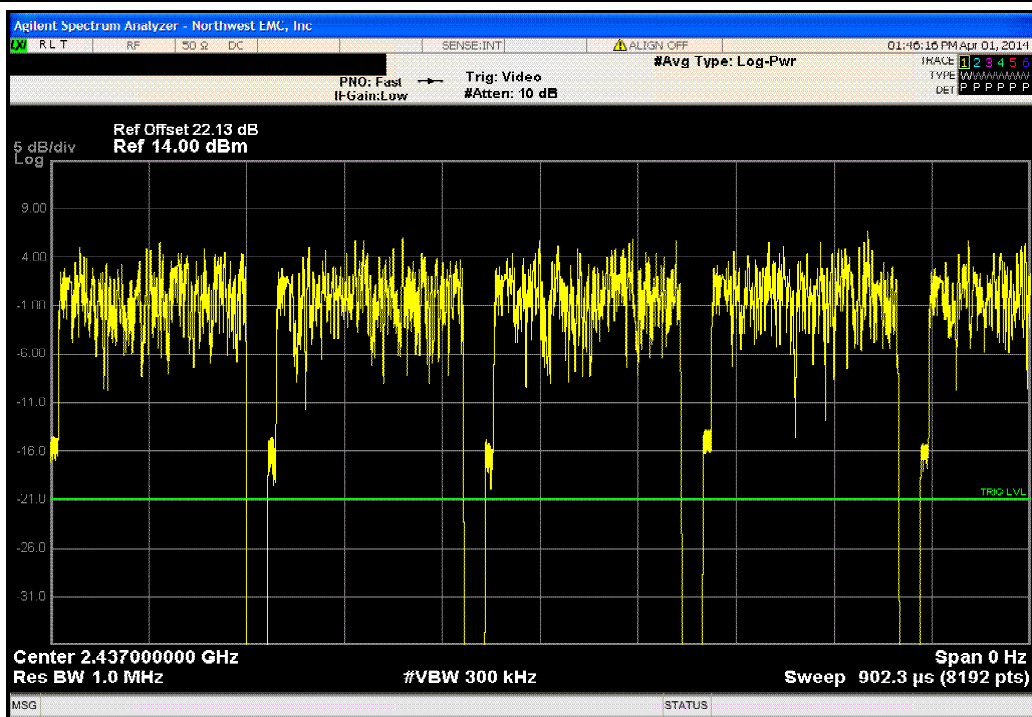
Antenna 1, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



Antenna 1, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
172.9 uS	200.5 uS	1	86.2	N/A	N/A	

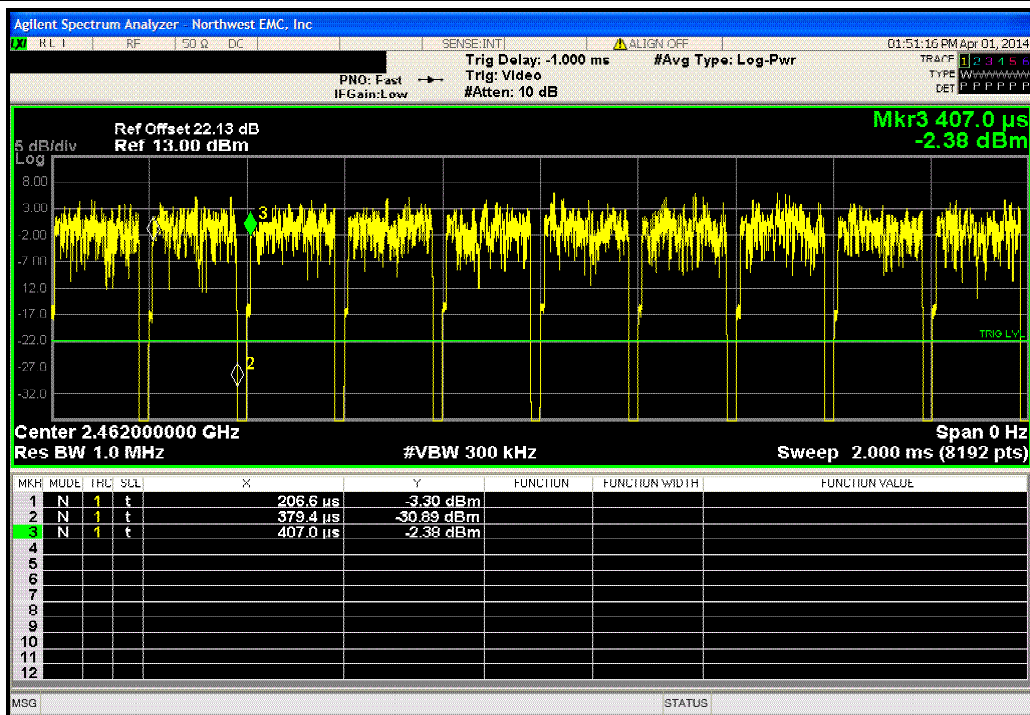


Antenna 1, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



Antenna 1, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz

Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
172.8 uS	200.4 uS	1	86.2	N/A	N/A

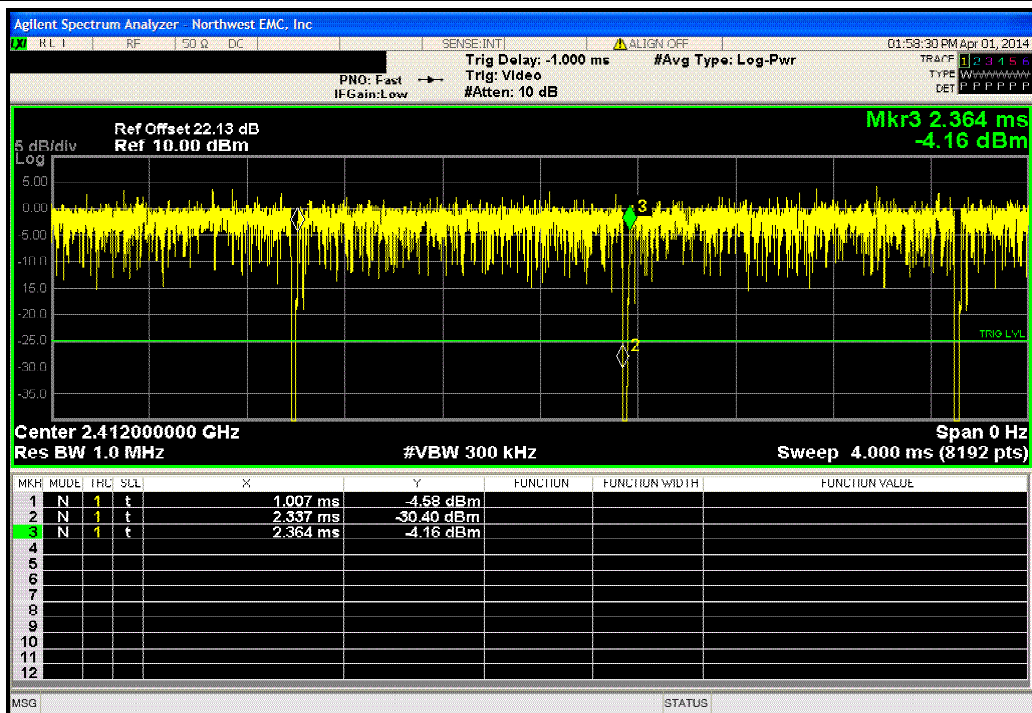


Antenna 1, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz

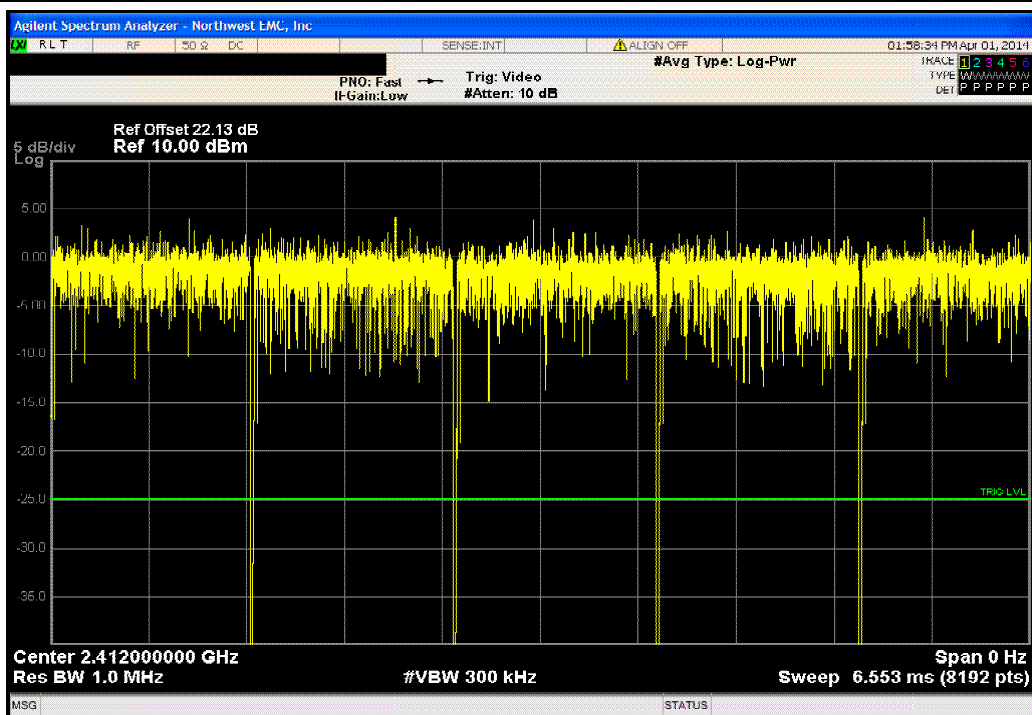
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result
N/A	N/A	5	N/A	N/A	N/A



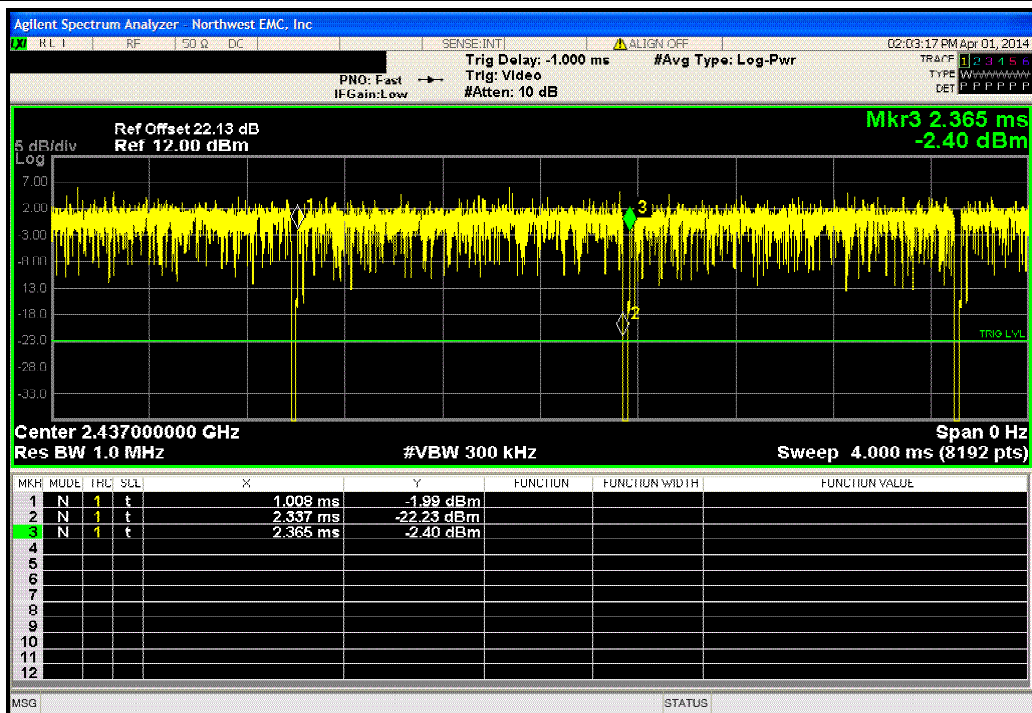
Antenna 1, 802.11(n) MCS0, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
1.329 mS	1.357 mS	1	98	N/A	N/A	



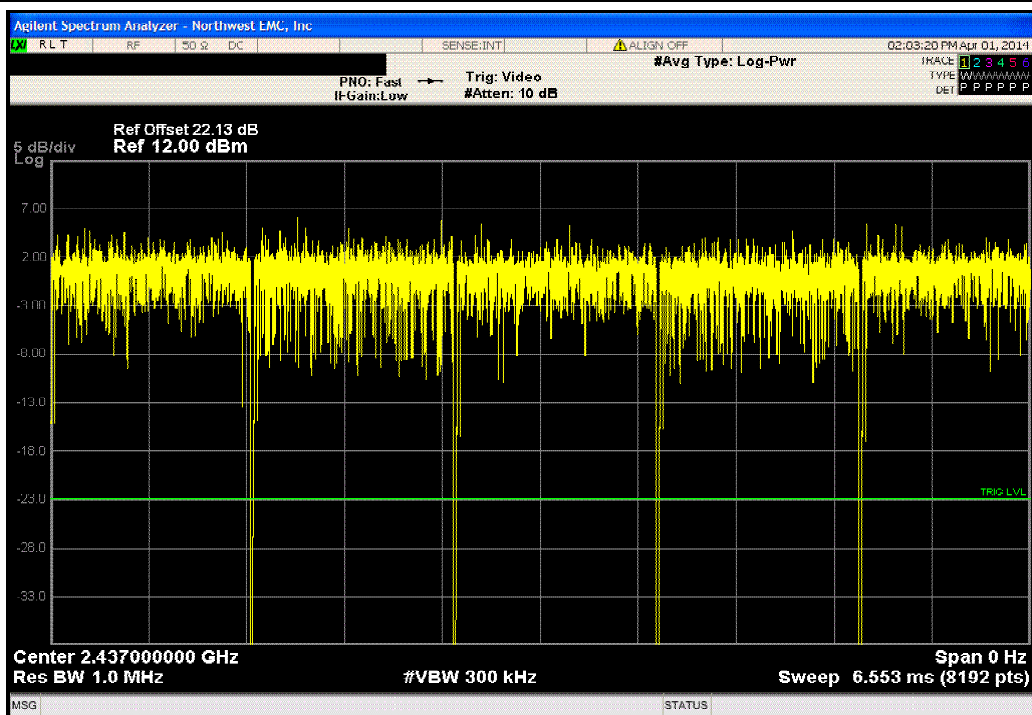
Antenna 1, 802.11(n) MCS0, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



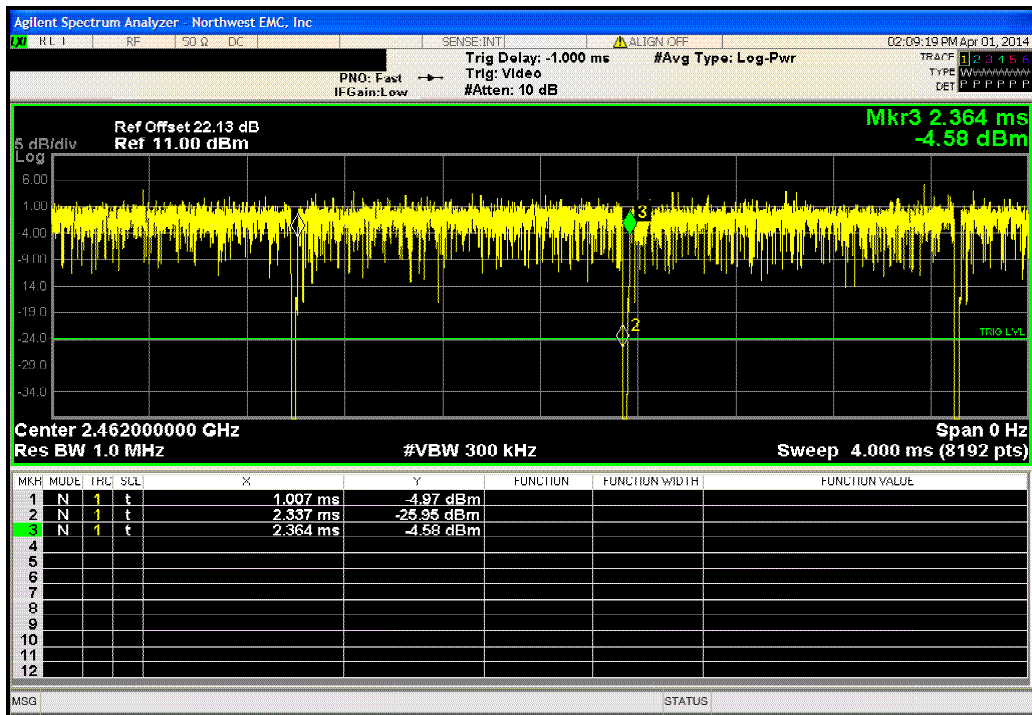
Antenna 1, 802.11(n) MCS0, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
1.329 mS	1.357 mS	1	98	N/A	N/A	



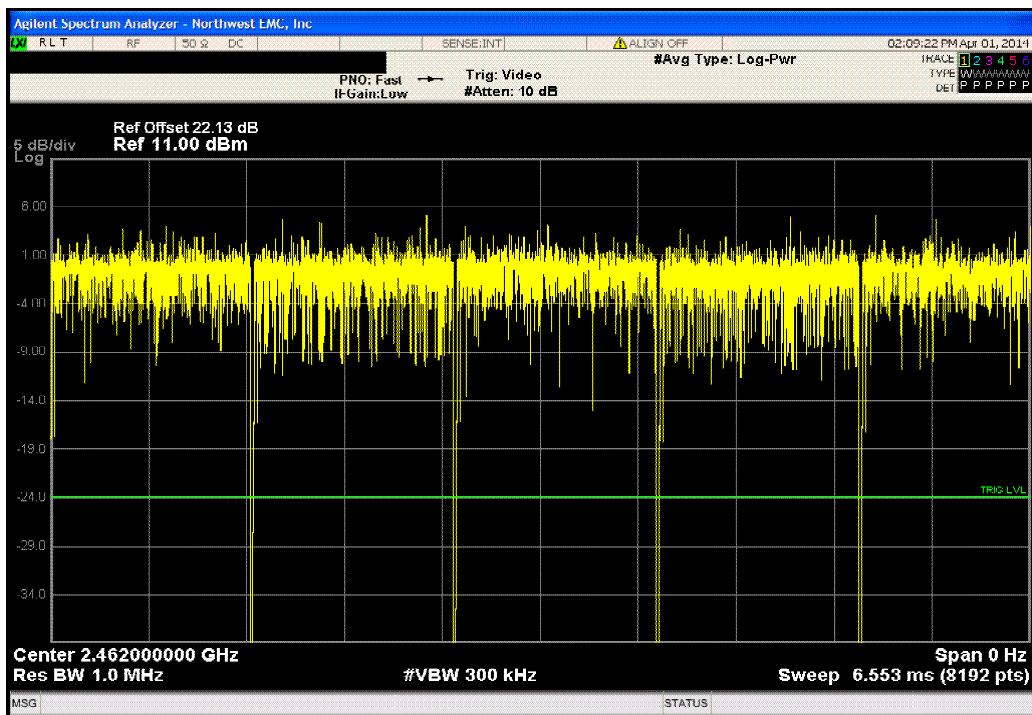
Antenna 1, 802.11(n) MCS0, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



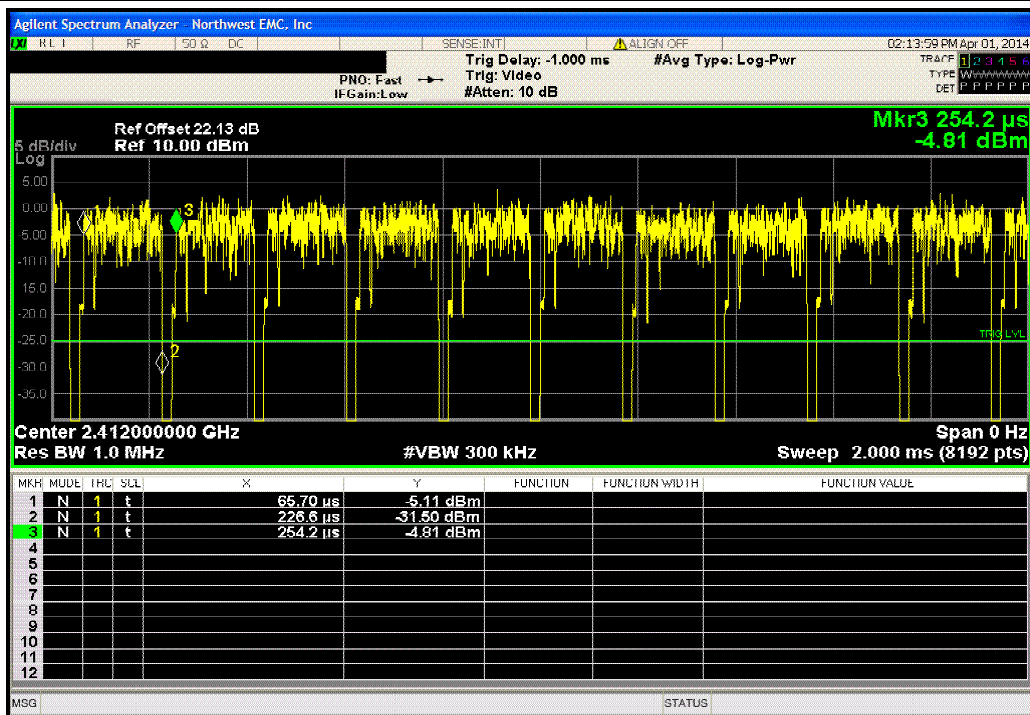
Antenna 1, 802.11(n) MCS0, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
1.329 mS	1.357 mS	1	98	N/A	N/A	



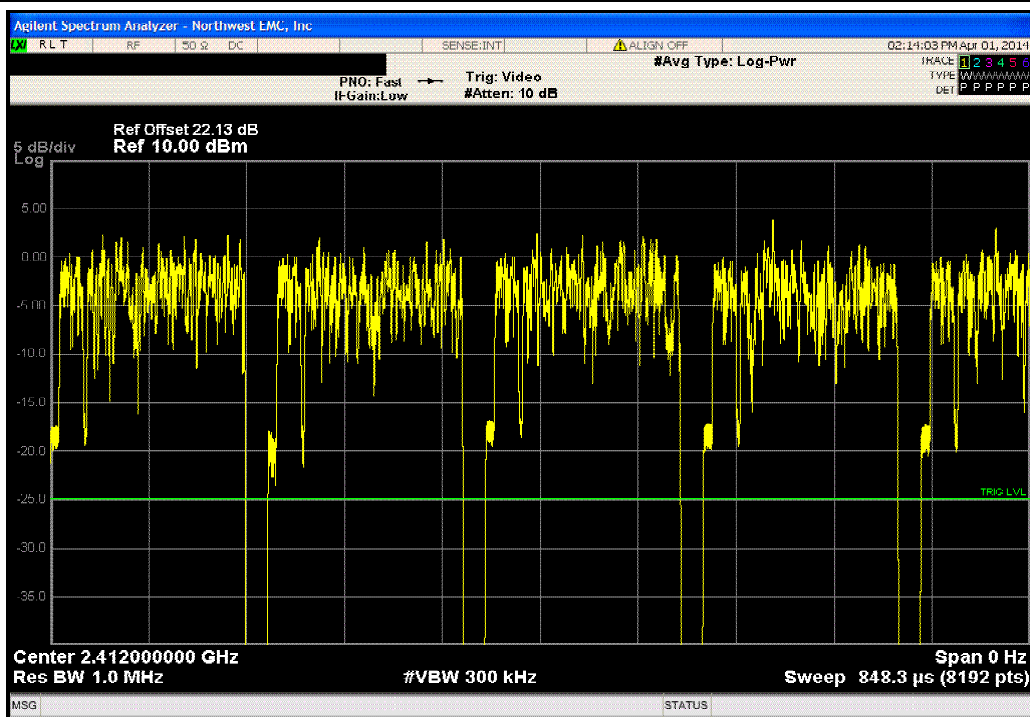
Antenna 1, 802.11(n) MCS0, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



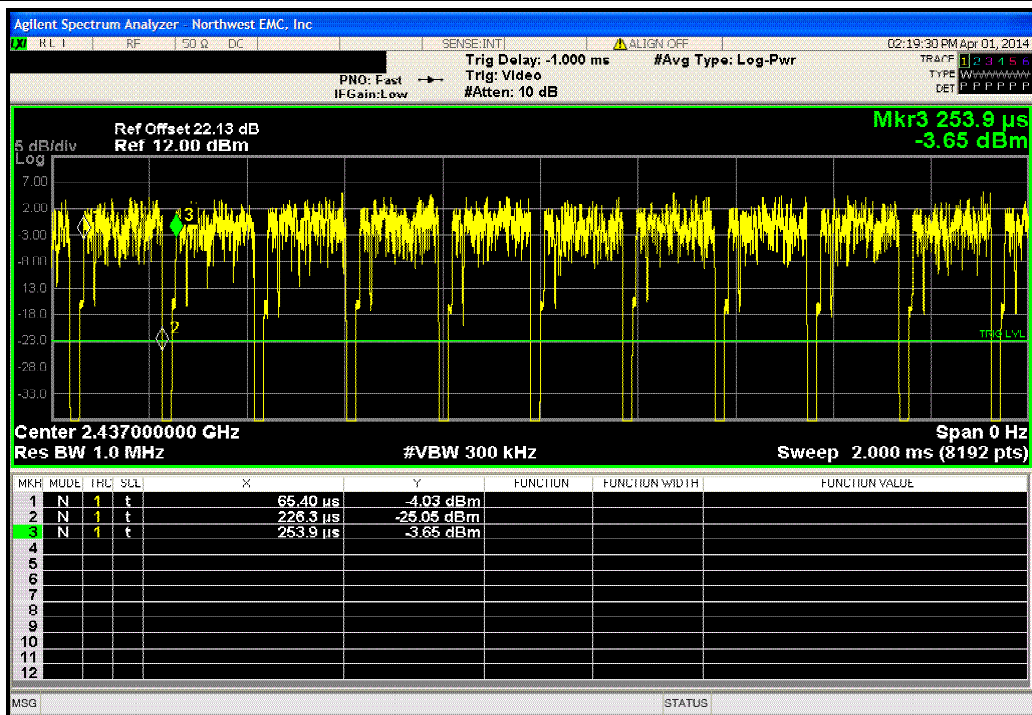
Antenna 1, 802.11(n) MCS7, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
160.9 μ S	188.5 μ S	1	85.4	N/A	N/A	



Antenna 1, 802.11(n) MCS7, Low Channel 1, 2412 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



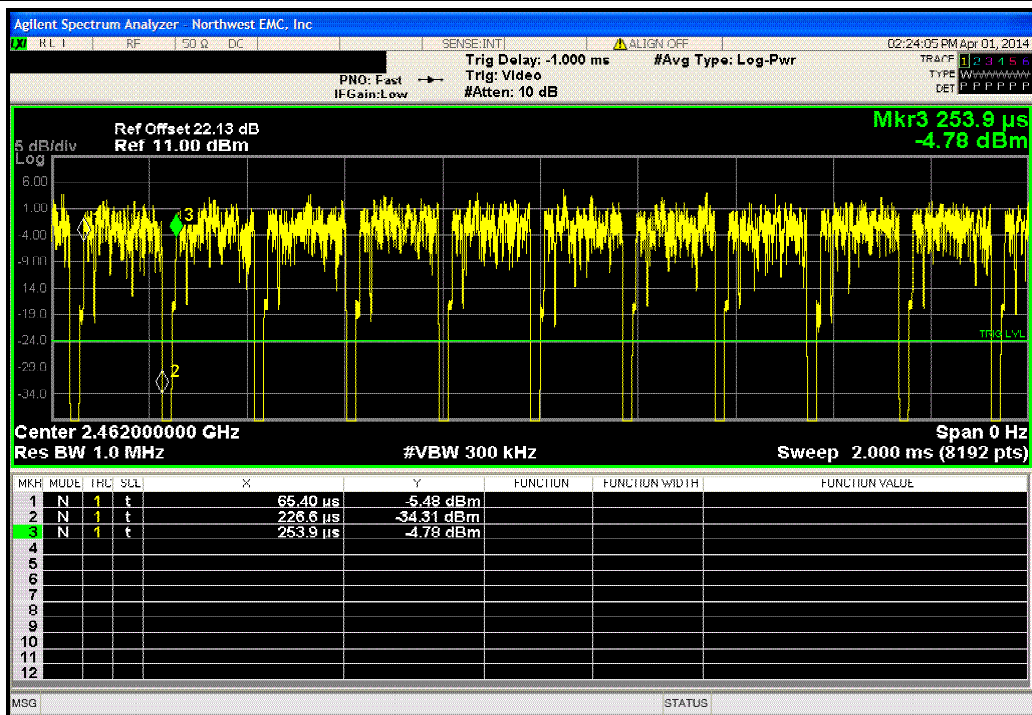
Antenna 1, 802.11(n) MCS7, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
160.9 μ S	188.5 μ S	1	85.4	N/A	N/A	



Antenna 1, 802.11(n) MCS7, Mid Channel 6, 2437 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	



Antenna 1, 802.11(n) MCS7, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
161.2 μ S	188.5 μ S	1	85.5	N/A	N/A	



Antenna 1, 802.11(n) MCS7, High Channel 11, 2462 MHz						
Pulse Width	Period	Number of Pulses	Value (%)	Limit	Result	
N/A	N/A	5	N/A	N/A	N/A	

