

ProSoft Technology, Inc.

WMIA-199NI

Report No. PROS0109

Report Prepared By



www.nwemc.com
1-888-EMI-CERT

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EMC Test Report



22975 NW Evergreen Parkway
Suite 400
Hillsboro, Oregon 97124

Certificate of Test
Last Date of Test: July 8, 2011
ProSoft Technology, Inc.
Model: WMIA-199NI

Emissions			
Test Description	Specification	Test Method	Pass/Fail
Spurious Radiated Emissions	FCC 15.247:2011	ANSI C63.10:2009	Pass
Output Power	FCC 15.247:2011	ANSI C63.10:2009	Pass
Power Spectral Density	FCC 15.247:2011	ANSI C63.10:2009	Pass
Spurious Conducted Emissions	FCC 15.247:2011	ANSI C63.10:2009	Pass
Occupied Bandwidth	FCC 15.247:2011	ANSI C63.10:2009	Pass
Band Edge Compliance	FCC 15.247:2011	ANSI C63.10:2009	Pass
AC Power Line Conducted Emissions	FCC 15.207:2011	ANSI C63.10:2009	Pass

Modifications made to the product

See the Modifications section of this report

Test Facility

The measurement facility used to collect the data is located at:

Northwest EMC, Inc.; 41 Tesla Ave.,
Irvine, CA 92618
Phone: (503) 844-4066 Fax: 844-3826

This site has been fully described in a report filed with and accepted by the FCC (Federal Communications Commission) and Industry Canada (Site filing #2834B-1).

Approved By:

Dean Ghizzone, President



NVLAP Lab Code: 200676-0

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

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 Number	Description	Date	Page Number
00	None		

Barometric Pressure

The recorded barometric pressure has been normalized to sea level.



Accreditations and Authorizations

FCC

Accredited by NVLAP for performance of FCC radio, digital, and ISM device testing. Our Open Area Test Sites, certification chambers, and conducted measurement facilities have been fully described in reports filed with the FCC and accepted by the FCC in letters maintained in our files. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by the FCC as a Telecommunications Certification Body (TCB). This allows Northwest EMC to certify transmitters to FCC specifications in accordance with 47 CFR 2.960 and 2.962.

NVLAP

Northwest EMC, Inc. is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP) for satisfactory compliance with the requirements of ISO/IEC 17025 for Testing Laboratories. NVLAP is administered by the National Institute of Standards and Technology (NIST), an agency of the U.S. Commerce Department. The NVLAP accreditation encompasses Electromagnetic Compatibility Testing in accordance with the European Union EMC Directive 2004/108/EC, and ANSI C63.4. Additionally, Northwest EMC is accredited by NVLAP to perform radio testing in accordance with the European Union R&TTE Directive 1999/5/EEC, the requirements of FCC, and the RSS radio standards for Industry Canada.

Industry Canada

Accredited by NVLAP for performance of Industry Canada RSS and ICES testing. Our Open Area Test Sites and certification chambers comply with RSS-Gen, Issue 2 and have been filed with Industry Canada and accepted. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by NIST and recognized by Industry Canada as a Certification Body (CB) per the APEC Mutual Recognition Arrangement (MRA). This allows Northwest EMC to certify transmitters to Industry Canada technical requirements. (*Site Filing Numbers - Hillsboro: 2834D-1, 2834D-2, Sultan: 2834C-1, Irvine: 2834B-1, 2834B-2, Brooklyn Park: 2834E-1*)

CAB

Designated by NIST and validated by the European Commission as a Conformity Assessment Body (CAB) to conduct tests and approve products to the EMC directive and transmitters to the R&TTE directive, as described in the U.S. - EU Mutual Recognition Agreement.

Australia/New Zealand

The National Association of Testing Authorities (NATA), Australia has been appointed by the ACA as an accreditation body to accredit test laboratories and competent bodies for EMC standards. Accredited test reports or assessments by competent bodies must carry the NATA logo. Test reports made by an overseas laboratory that has been accredited for the relevant standards by an overseas accreditation body that has a Mutual Recognition Agreement (MRA) with NATA are also accepted as technical grounds for product conformity. The report should be endorsed with the respective logo of the accreditation body (NVLAP).



Accreditations and Authorizations

VCCI

Accepted as an Associate Member to the VCCI, Acceptance No. 564. Conducted and radiated measurement facilities have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. *(Registration Numbers. - Hillsboro: C-1071, R-1025, G-84, C-2687, T-1658, and R-2318, Irvine: R-1943, G-85, C-2766, and T-1659, Sultan: R-871, G-83, C-3265, and T-1511, Brooklyn Park: R-3125, G-86, G-141, C-3464, and T-1634).*

BSMI

Northwest EMC has been designated by NIST and validated by C-Taipei (BSMI) as a CAB to conduct tests as described in the APEC Mutual Recognition Agreement (US0017).

GOST

Northwest EMC, Inc. has been assessed and accredited by the Russian Certification bodies Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC, to perform EMC and Hygienic testing for Information Technology Products. As a result of their laboratory assessment, they will accept test results from Northwest EMC, Inc. for product certification

KCC

Northwest EMC, Inc is a CAB designated by MRA partners and recognized by Korea. *(Assigned Lab Numbers: Hillsboro: US0017, Irvine: US0158, Sultan: US0157, Brooklyn Park: US0175)*

VIETNAM

Vietnam MIC has approved Northwest EMC as an accredited test lab. Per Decision No. 194/QD-QLCL (dated December 15, 2009), Northwest EMC test reports can be used for Vietnam approval submissions.

SCOPE

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

<http://www.nwemc.com/accreditations/>



Northwest EMC Locations



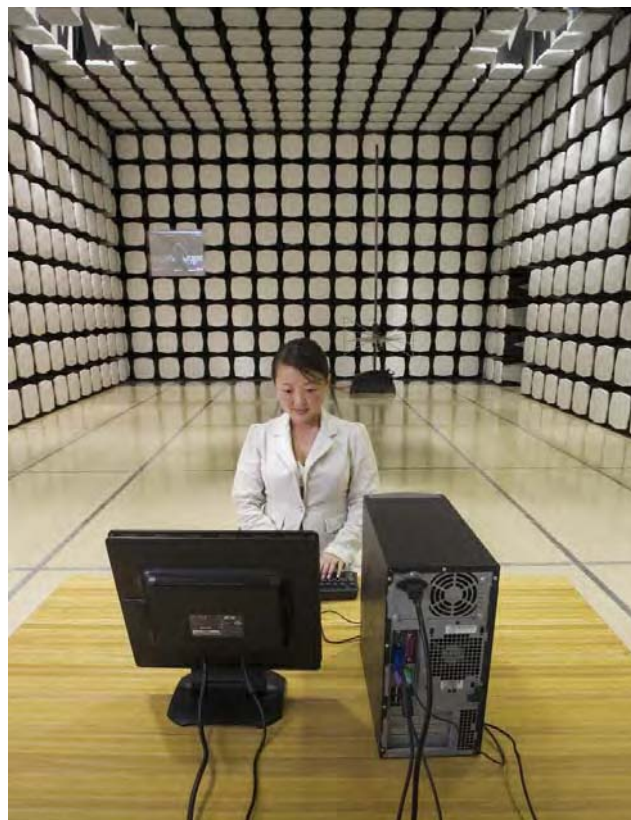
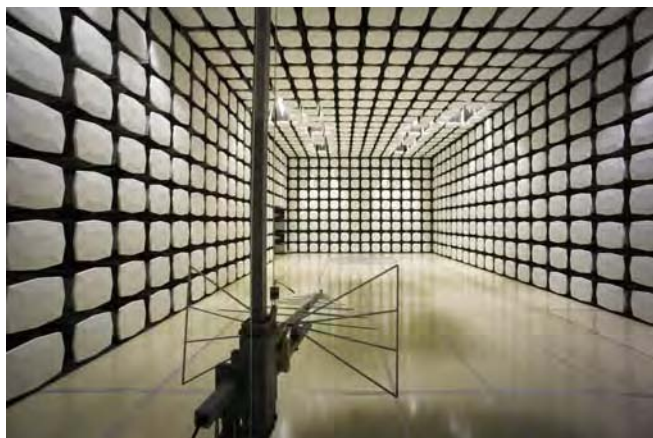
Oregon
Labs EV01-EV12
22975 NW Evergreen Pkwy
Suite 400
Hillsboro, OR 97124
(503) 844-4066

California
Labs OC01-OC13
41 Tesla
Irvine, CA 92618
(949) 861-8918

Minnesota
Labs MN01-MN08
9349 W Broadway Ave.
Brooklyn Park,
MN 55445
(763) 425-2281

Washington
Labs SU01-SU07
14128 339th Ave. SE
Sultan, WA 98294
(360) 793-8675

New York
Labs WA01-WA04
4939 Jordan Rd.
Elbridge, NY 13060
(315) 685-0796



Party Requesting the Test

Company Name:	ProSoft Technology, Inc.
Address:	5201 Truxtun Ave., 3 rd Floor
City, State, Zip:	Bakersfield, CA 93309
Test Requested By:	Frank Hardy
Model:	WMIA-199NI
First Date of Test:	6/20/2011
Last Date of Test:	7/8/2011
Receipt Date of Samples:	6/20/2011
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

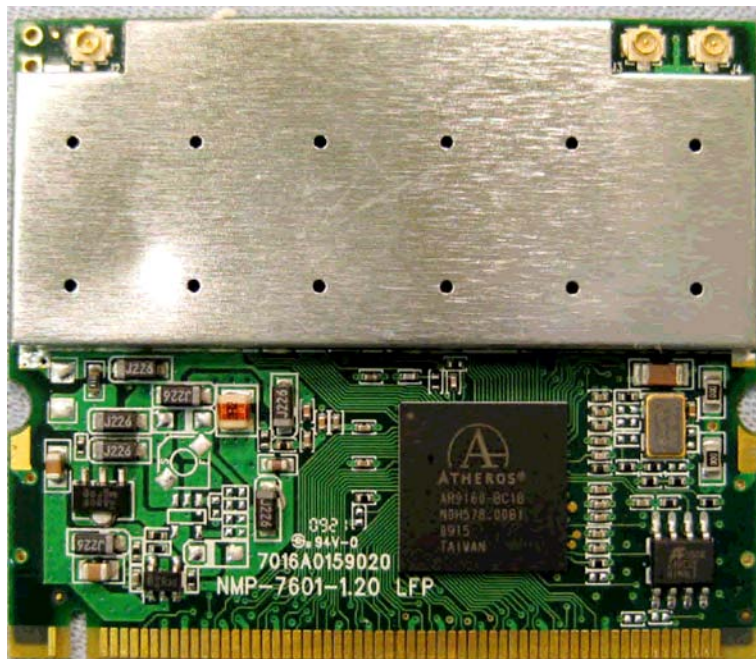
Functional Description of the EUT (Equipment Under Test):

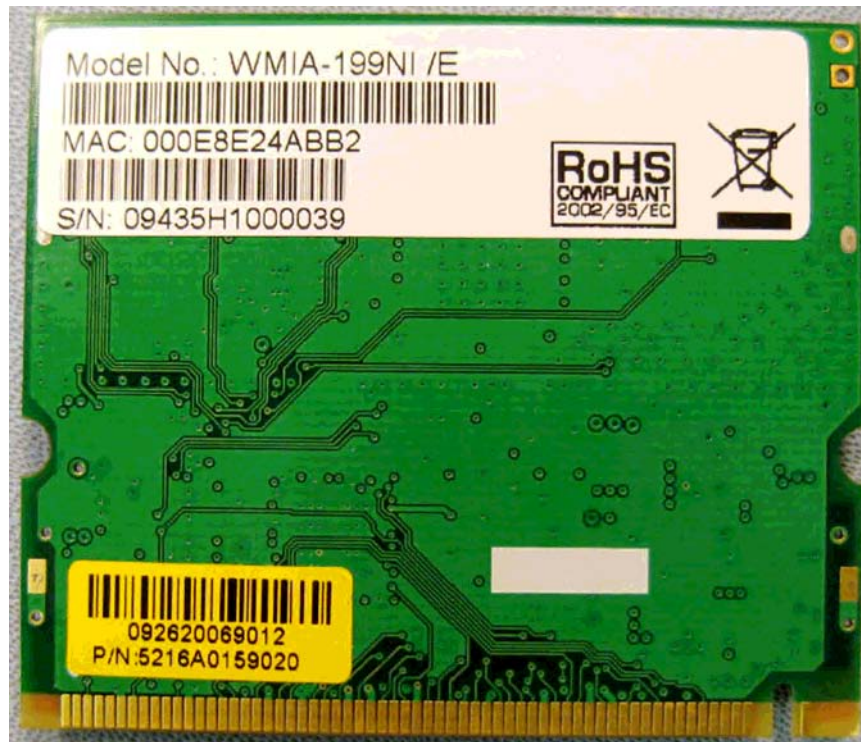
One combination 802.11a/g/n radio module.

Testing Objective:

Seeking to demonstrate compliance under FCC 15.247.

EUT Photo





CONFIGURATION 1 PROS0109

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
802.11 a/g/n radio module	Prosoft Technology	WMIA-199NI	09435H1000039
DC Power Supply	Phihong	PSA15R-120P	P65000748A1

Remote Equipment Outside of Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Remote Laptop	Dell Corp.	Dell Vostro 1100	14TBYG1

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Lan	No	1.8m	No	802.11 a/g/n radio module	Remote Laptop
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

CONFIGURATION 2 PROS0109

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
802.11 a/g/n radio module	Prosoft Technology	WMIA-199NI	09435H1000039
DC Power Supply	Phihong	PSA15R-120P	P65000748A1
5dB Blade Antenna (#1)	Prosoft Technology	None	None
5dB Blade Antenna (#2)	Prosoft Technology	None	None
5dB Blade Antenna (#3)	Prosoft Technology	None	None

Remote Equipment Outside of Test Setup Boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Remote Laptop	Dell Corp.	Dell Vostro 1100	14TBYG1

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Lan	No	1.8m	No	802.11 a/g/n radio module	Remote Laptop
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	6/20/2011	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.
2	6/27/2011	Spurious Radiated Emissions: 30 MHz-18 GHz	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	6/29/2011	Spurious Radiated Emissions: 18 GHz- 40 GHz	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	7/5/2011	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	7/6/2011	Power Line Conducted Emissions	Modified from delivered configuration.	Added ferrite (0443164151) on power supply on EUT end with 2 loops. Modification authorized by Frank Hardy.	EUT remained at Northwest EMC following the test.
6	7/7/2011	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.
7	7/7/2011	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	7/8/2011	Spurious Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

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
Power Sensor	Agilent	E4412A	SQE	4/21/2010	24
Power Meter	Hewlett Packard	E4418A	SPA	4/21/2010	24
Signal Generator	Agilent	E8257D	TGU	1/26/2011	12
Spectrum Analyzer	Agilent	E4440A	AFG	4/28/2011	12

MEASUREMENT UNCERTAINTY

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 for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

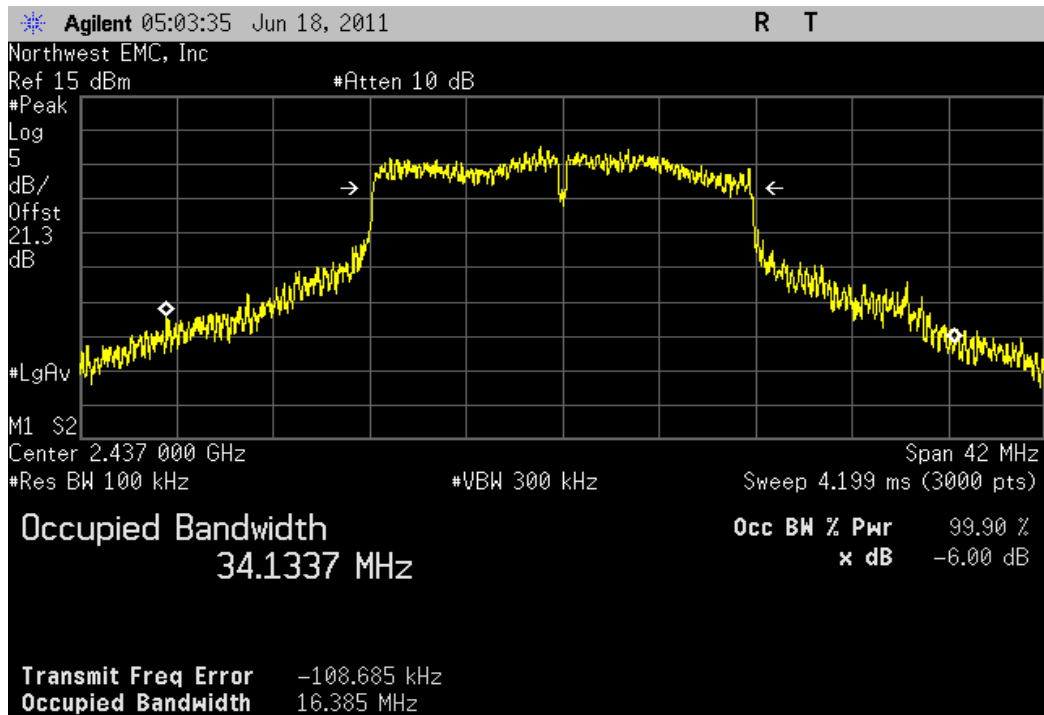
TEST DESCRIPTION

The occupied bandwidth was measured with the EUT set to low, medium, and high transmit frequencies in the ISM band. 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 required data rates available in 802.11(a)/(g)/(n).

NORTHWEST		EMC		Occupied Bandwidth		XMit 2011.04.20 PsaTx 2011.05.03			
EUT: WMIA-199NI				Work Order: PROS0109					
Serial Number: 09435H1000039				Date: 07/07/11					
Customer: ProSoft Technology, Inc.				Temperature: 22.06°C					
Attendees: None				Humidity: 48%					
Project: None				Barometric Pres.: 1011					
Tested by: Jaemi Suh		Power: 120V/60Hz		Job Site: OC11					
TEST SPECIFICATIONS				TEST METHOD					
FCC 15.247:2011				ANSI C63.10:2009					
COMMENTS									
Chain 1. Operating at 802.11 a/g/n. PC Power Level = 15.									
DEVIATIONS FROM TEST STANDARD									
Configuration #		1		Signature 					
				Value		Limit		Result	
802.11(g) 6 Mbps									
Low Channel 1 (2412 MHz)				16.525 MHz		> 500 kHz		Pass	
Mid Channel 6 (2437 MHz)				16.385 MHz		> 500 kHz		Pass	
High Channel 11 (2462 MHz)				16.454 MHz		> 500 kHz		Pass	
802.11(n) MCS8									
Low Channel 1 (2412 MHz)				17.707 MHz		> 500 kHz		Pass	
Mid Channel 6 (2437 MHz)				17.745 MHz		> 500 kHz		Pass	
High Channel 11 (2462 MHz)				17.647 MHz		> 500 kHz		Pass	
802.11(n)(40 MHz) MCS8									
Low Channel 1 (2422 MHz)				36.515 MHz		> 500 kHz		Pass	
Mid Channel 6 (2437 MHz)				36.566 MHz		> 500 kHz		Pass	
High Channel 11 (2452 MHz)				36.501 MHz		> 500 kHz		Pass	

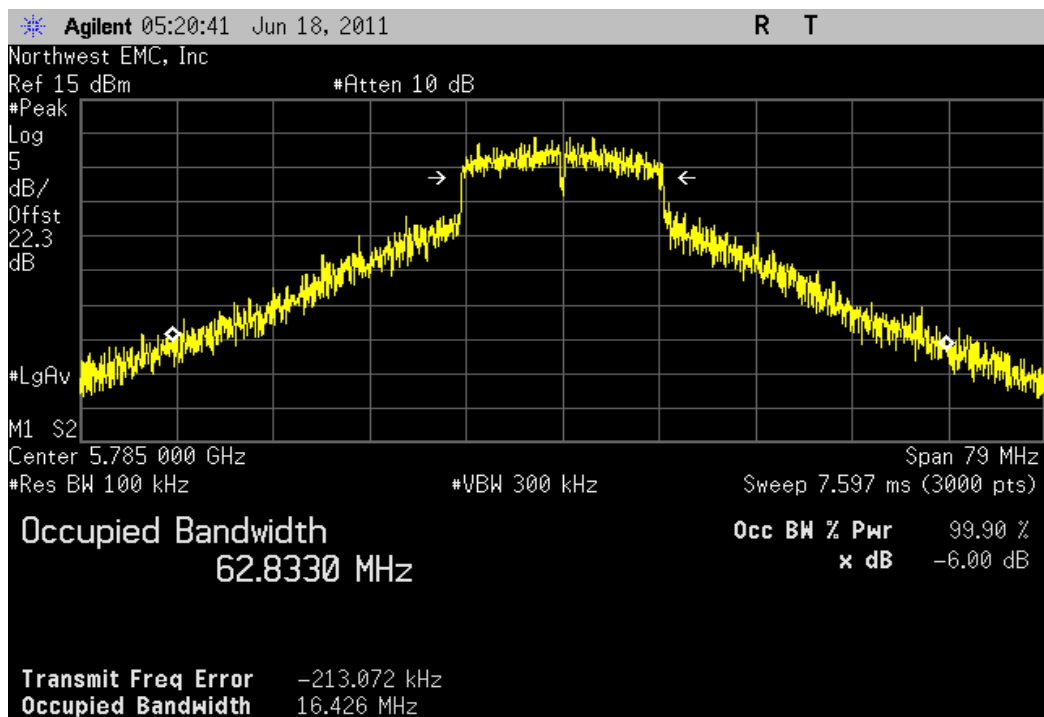
802.11(g) 6 Mbps, Mid Channel 6 (2437 MHz)

				Value	Limit	Result
				16.385 MHz	> 500 kHz	Pass



802.11(a) 6 Mbps, Mid Channel 157 (5785 MHz)

				Value	Limit	Result
				16.426 MHz	> 500 kHz	Pass



NORTHWEST

EMC

Occupied Bandwidth

XMit 2011.04.20
PsaTx 2011.05.03

EUT: WMIA-199NI		Work Order: PROS0109	
Serial Number: 09435H1000039		Date: 07/07/11	
Customer: ProSoft Technology, Inc.		Temperature: 22.06°C	
Attendees: None		Humidity: 48%	
Project: None		Barometric Pres.: 1011	
Tested by: Jaemi Suh	Power: 120V/60Hz	Job Site: OC11	

TEST SPECIFICATIONS		TEST METHOD	
FCC 15.247:2011		ANSI C63.10:2009	

COMMENTS

Chain 2. Operating at 802.11 a/g/n. PC Power Level = 15.

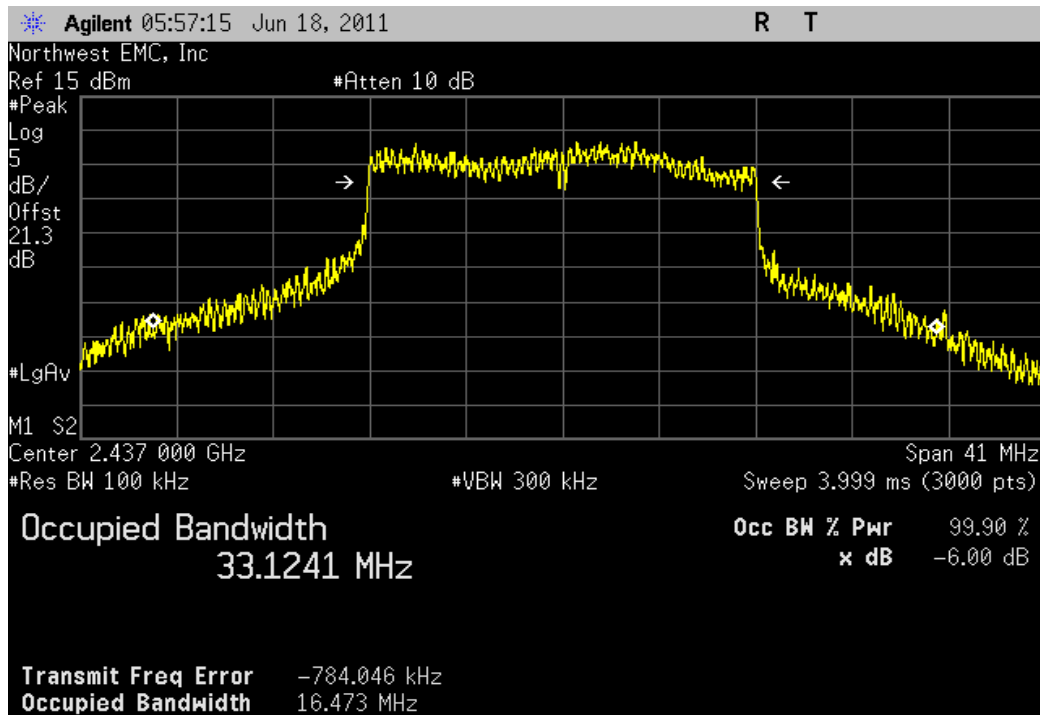
DEVIATIONS FROM TEST STANDARD

Configuration #	1	Signature 
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	Value	Limit	Result
802.11(g) 54 Mbps			
Low Channel 1 (2412 MHz)	16.496 MHz	> 500 kHz	Pass
Mid Channel 6 (2437 MHz)	16.473 MHz	> 500 kHz	Pass
High Channel 11 (2462 MHz)	16.516 MHz	> 500 kHz	Pass
802.11(n) MCS15			
Low Channel 1 (2412 MHz)	17.66 MHz	> 500 kHz	Pass
Mid Channel 6 (2437 MHz)	17.581 MHz	> 500 kHz	Pass
High Channel 11 (2462 MHz)	17.228 MHz	> 500 kHz	Pass
802.11(n)(40 MHz) MCS15			
Low Channel 1 (2422 MHz)	36.464 MHz	> 500 kHz	Pass
Mid Channel 6 (2437 MHz)	36.491 MHz	> 500 kHz	Pass
High Channel 11 (2452 MHz)	36.392 MHz	> 500 kHz	Pass

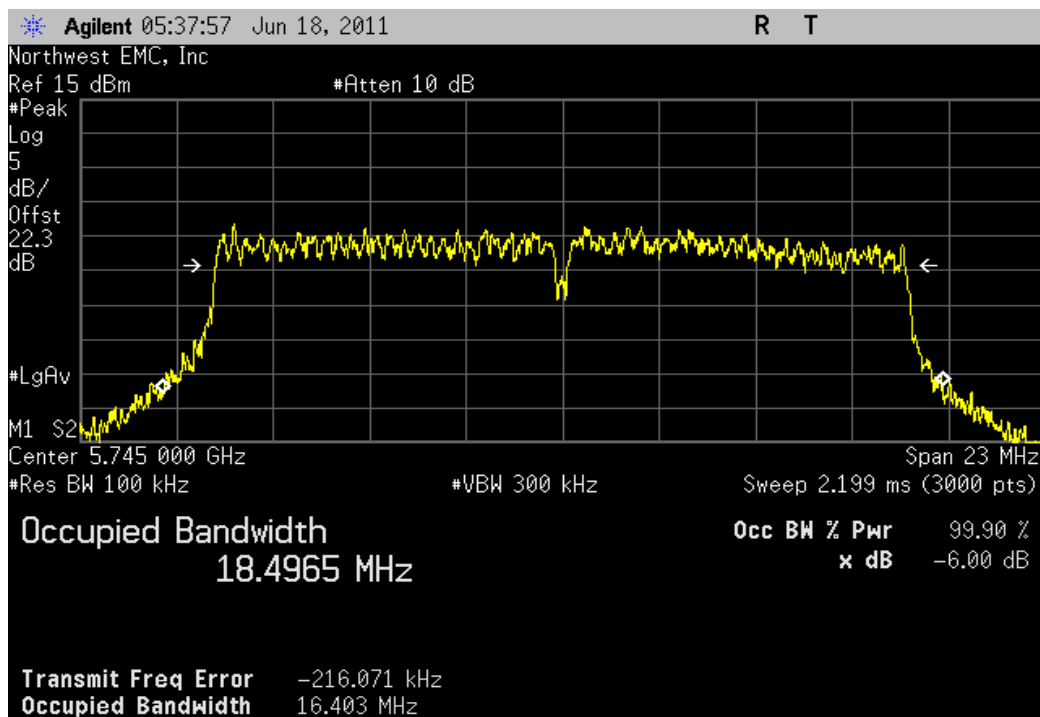
802.11(g) 36 Mbps, Mid Channel 6 (2437 MHz)

				Value	Limit	Result
				16.473 MHz	> 500 kHz	Pass



802.11(a) 54 Mbps, Low Channel 149 (5745 MHz)

				Value	Limit	Result
				16.403 MHz	> 500 kHz	Pass



NORTHWEST

EMC

Occupied Bandwidth

XMit 2011.04.20
PsaTx 2011.05.03

EUT: WMIA-199NI		Work Order: PROS0109	
Serial Number: 09435H1000039		Date: 07/08/11	
Customer: ProSoft Technology, Inc.		Temperature: 22.06°C	
Attendees: None		Humidity: 48%	
Project: None		Barometric Pres.: 1011	
Tested by: Jaemi Suh	Power: 120V/60Hz	Job Site: OC11	

TEST SPECIFICATIONS		TEST METHOD	
FCC 15.247:2011		ANSI C63.10:2009	

COMMENTS

Chain 3. Operating at 802.11 a/g/n. PC Power Level = 15.

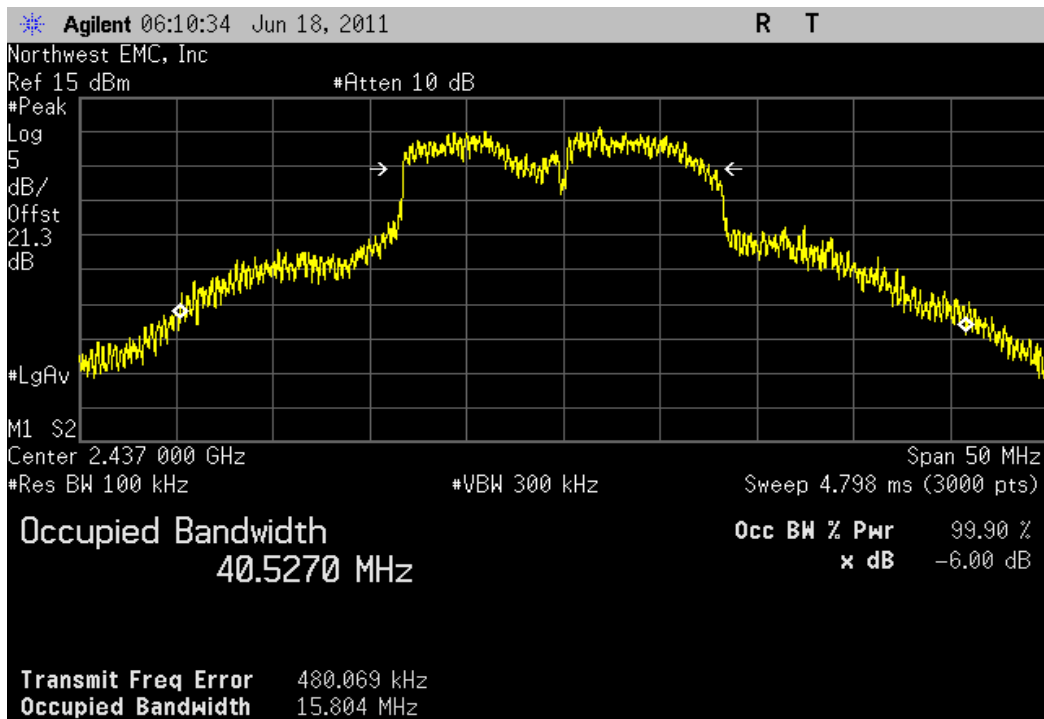
DEVIATIONS FROM TEST STANDARD

Configuration #	1	Signature 
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	Value	Limit	Result
802.11(g) 54 Mbps			
Low Channel 1 (2412 MHz)	16.486 MHz	> 500 kHz	Pass
Mid Channel 6 (2437 MHz)	15.804 MHz	> 500 kHz	Pass
High Channel 11 (2462 MHz)	16.352 MHz	> 500 kHz	Pass
802.11(n) MCS7			
Low Channel 1 (2412 MHz)	16.864 MHz	> 500 kHz	Pass
Mid Channel 6 (2437 MHz)	17.352 MHz	> 500 kHz	Pass
High Channel 11 (2462 MHz)	17.595 MHz	> 500 kHz	Pass
802.11(n)(40 MHz) MCS15			
Low Channel 1 (2422 MHz)	22.236 MHz	> 500 kHz	Pass
Mid Channel 6 (2437 MHz)	36.344 MHz	> 500 kHz	Pass
High Channel 11 (2452 MHz)	36.436 MHz	> 500 kHz	Pass

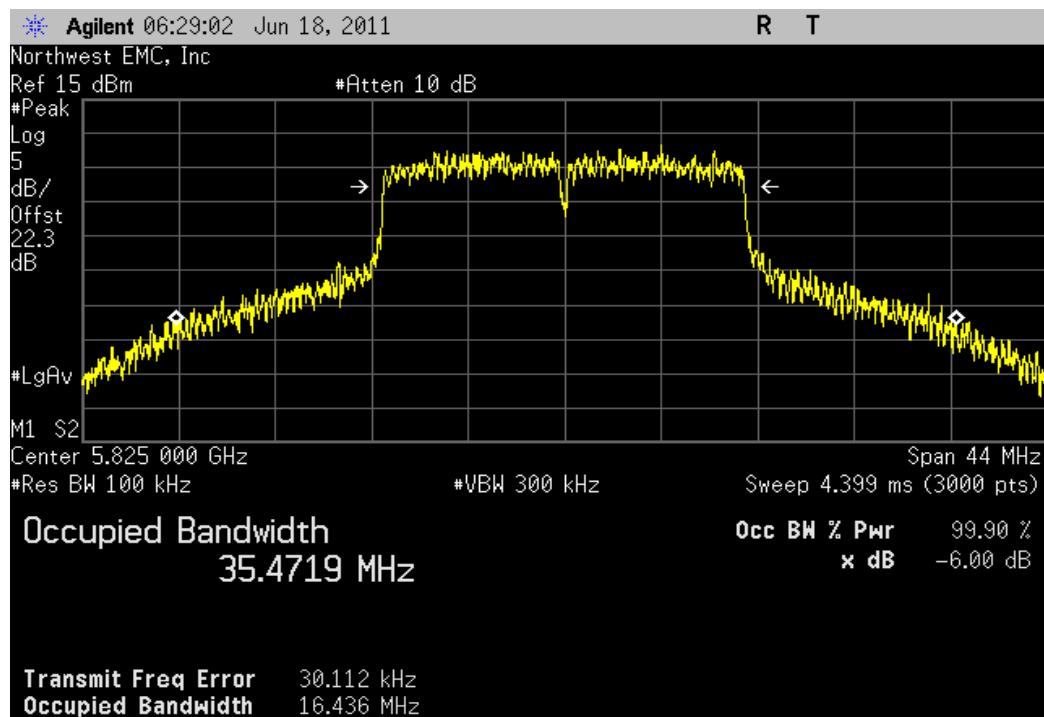
802.11(g) 36 Mbps, Mid Channel 6 (2437 MHz)

	Value	Limit	Result
	15.804	> 500 kHz	Pass



802.11(a) 36 Mbps, High Channel 165 (5825 MHz)

	Value	Limit	Result
	16.436 MHz	> 500 kHz	Pass



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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Power Sensor	Agilent	E4412A	SQE	4/21/2010	24
Power Meter	Hewlett Packard	E4418A	SPA	4/21/2010	24
Signal Generator (FOR REFERENCE ONLY)	Hewlett Packard	8341B	TGM	NCR	0
Spectrum Analyzer	Agilent	E4440A	AFG	4/28/2011	12

MEASUREMENT UNCERTAINTY

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 for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

The peak output power was measured with the EUT set to low, medium, and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was transmitting at its maximum data rate and maximum output power.

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

NORTHWEST		Output Power		XMit 2011.04.20 PsaTx 2011.06.20	
EMC					
EUT: WMIA-199NI		Work Order: PROS0109			
Serial Number: 09435H1000039		Date: 07/05/11			
Customer: ProSoft Technology, Inc.		Temperature: 22.06°C			
Attendees: None		Humidity: 48%			
Project: None		Barometric Pres.: 1011			
Tested by: Jaemi Suh		Power: 120V/60Hz		Job Site: OC11	
TEST SPECIFICATIONS		TEST METHOD			
FCC 15.247:2011		ANSI C63.10:2009			
COMMENTS					
Chain 1. Operating at 802.11 a/g/n. Software power level set to 15.					
DEVIATIONS FROM TEST STANDARD					
Configuration #	1	Signature 			
		Value	Limit	Result	
802.11(g) 6 Mbps					
Low Channel 1 (2412 MHz)		26.3 mW	1 W	Pass	
Mid Channel 6 (2437 MHz)		21.278 mW	1 W	Pass	
High Channel 11 (2462 MHz)		23.249 mW	1 W	Pass	
802.11(g) 36 Mbps					
Low Channel 1 (2412 MHz)		26.025 mW	1 W	Pass	
Mid Channel 6 (2437 MHz)		23.552 mW	1 W	Pass	
High Channel 11 (2462 MHz)		24.117 mW	1 W	Pass	
802.11(g) 54 Mbps					
Low Channel 1 (2412 MHz)		25.184 mW	1 W	Pass	
Mid Channel 6 (2437 MHz)		23.674 mW	1 W	Pass	
High Channel 11 (2462 MHz)		24.738 mW	1 W	Pass	
802.11(n) MCS0					
Low Channel 1 (2412 MHz)		22.542 mW	1 W	Pass	
Mid Channel 6 (2437 MHz)		22.652 mW	1 W	Pass	
High Channel 11 (2462 MHz)		24.485 mW	1 W	Pass	
802.11(n) MCS7					
Low Channel 1 (2412 MHz)		25.284 mW	1 W	Pass	
Mid Channel 6 (2437 MHz)		24.271 mW	1 W	Pass	
High Channel 11 (2462 MHz)		19.892 mW	1 W	Pass	
802.11(n) MCS8					
Low Channel 1 (2412 MHz)		25.871 mW	1 W	Pass	
Mid Channel 6 (2437 MHz)		21.088 mW	1 W	Pass	
High Channel 11 (2462 MHz)		23.787 mW	1 W	Pass	
802.11(n) MCS15					
Low Channel 1 (2412 MHz)		23.131 mW	1 W	Pass	
Mid Channel 6 (2437 MHz)		21.075 mW	1 W	Pass	
High Channel 11 (2462 MHz)		24.887 mW	1 W	Pass	
802.11(n) MCS0(40 MHz)					
Low Channel 1 (2422 MHz)		19.989 mW	1 W	Pass	
Mid Channel 6 (2437 MHz)		19.08 mW	1 W	Pass	
High Channel 11 (2452 MHz)		20.248 mW	1 W	Pass	
802.11(n) MCS7(40 MHz)					
Low Channel 1 (2422 MHz)		22.26 mW	1 W	Pass	
Mid Channel 6 (2437 MHz)		21.967 mW	1 W	Pass	
High Channel 11 (2452 MHz)		20.394 mW	1 W	Pass	
802.11(n) MCS8(40 MHz)					
Low Channel 1 (2422 MHz)		21.881 mW	1 W	Pass	
Mid Channel 6 (2437 MHz)		20.621 mW	1 W	Pass	
High Channel 11 (2452 MHz)		20.691 mW	1 W	Pass	
802.11(n) MCS15(40 MHz)					
Low Channel 1 (2422 MHz)		21.904 mW	1 W	Pass	
Mid Channel 6 (2437 MHz)		20.741 mW	1 W	Pass	
High Channel 11 (2452 MHz)		20.297 mW	1 W	Pass	
802.11(a) 6 Mbps					
Low Channel 149 (5745 MHz)		38.483 mW	1 W	Pass	
Mid Channel 157 (5785 MHz)		34.476 mW	1 W	Pass	
High Channel 165 (5825 MHz)		36.25 mW	1 W	Pass	
802.11(a) 36 Mbps					
Low Channel 149 (5745 MHz)		36.524 mW	1 W	Pass	
Mid Channel 157 (5785 MHz)		40.05 mW	1 W	Pass	
High Channel 165 (5825 MHz)		37.444 mW	1 W	Pass	
802.11(a) 54 Mbps					
Low Channel 149 (5745 MHz)		36.483 mW	1 W	Pass	
Mid Channel 157 (5785 MHz)		40.977 mW	1 W	Pass	
High Channel 165 (5825 MHz)		36.798 mW	1 W	Pass	
802.11(n) MCS0 5GHz					
Low Channel 149 (5745 MHz)		37.398 mW	1 W	Pass	
Mid Channel 157 (5785 MHz)		39.8 mW	1 W	Pass	
High Channel 165 (5825 MHz)		41.18 mW	1 W	Pass	
802.11(n) MCS7 5GHz					
Low Channel 149 (5745 MHz)		30.338 mW	1 W	Pass	
Mid Channel 157 (5785 MHz)		34.558 mW	1 W	Pass	
High Channel 165 (5825 MHz)		37.385 mW	1 W	Pass	
802.11(n) MCS8 5GHz					
Low Channel 149 (5745 MHz)		37.218 mW	1 W	Pass	
Mid Channel 157 (5785 MHz)		41.187 mW	1 W	Pass	
High Channel 165 (5825 MHz)		37.278 mW	1 W	Pass	
802.11(n) MCS15 5GHz					
Low Channel 149 (5745 MHz)		36.987 mW	1 W	Pass	
Mid Channel 157 (5785 MHz)		41.482 mW	1 W	Pass	
High Channel 165 (5825 MHz)		36.851 mW	1 W	Pass	
802.11(n) MCS0(40 MHz) 5GHz					
Low Channel 149 (5755 MHz)		38.694 mW	1 W	Pass	
High Channel 165 (5795 MHz)		41.366 mW	1 W	Pass	
802.11(n) MCS7(40 MHz) 5GHz					
Low Channel 149 (5755 MHz)		38.557 mW	1 W	Pass	
High Channel 165 (5795 MHz)		42.077 mW	1 W	Pass	
802.11(n) MCS8(40 MHz) 5GHz					
Low Channel 149 (5755 MHz)		38.059 mW	1 W	Pass	
High Channel 165 (5795 MHz)		32.512 mW	1 W	Pass	
802.11(n) MCS15(40 MHz) 5GHz					
Low Channel 149 (5755 MHz)		33.373 mW	1 W	Pass	
High Channel 165 (5795 MHz)		32.842 mW	1 W	Pass	

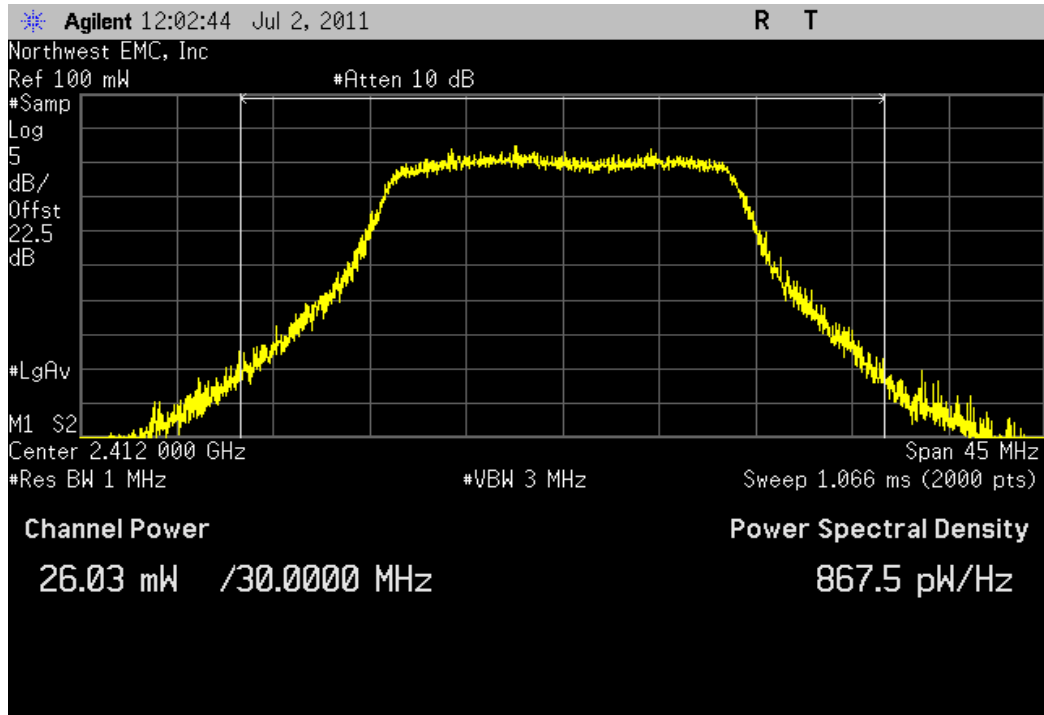
Output Power

802.11(g) 36 Mbps, Low Channel 1 (2412 MHz)

26.025 mW

1 W

Pass

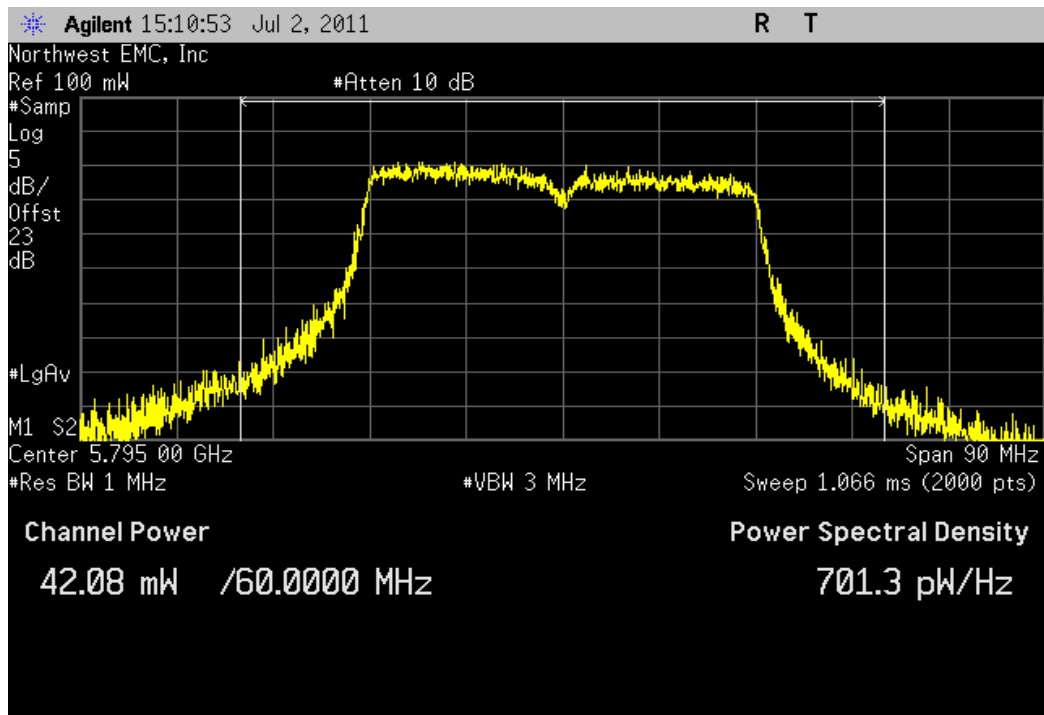


802.11(n) MCS7(40 MHz) 5GHz, High Channel 165 (5795 MHz)

42.077 mW

1 W

Pass



NORTHWEST		Output Power		XMit 2011.04.20 PsaTx 2011.06.20	
EMC					
EUT: WMIA-199NI		Work Order: PROS0109			
Serial Number: 09435H1000039		Date: 07/05/11			
Customer: ProSoft Technology, Inc.		Temperature: 22.06°C			
Attendees: None		Humidity: 48%			
Project: None		Barometric Pres.: 1011			
Tested by: Jaemi Suh		Power: 120V/60Hz		Job Site: OC11	
TEST SPECIFICATIONS		TEST METHOD			
FCC 15.247:2011		ANSI C63.10:2009			
COMMENTS					
Chain 2. Operating at 802.11 a/g/n. Software power level set to 15.					
DEVIATIONS FROM TEST STANDARD					

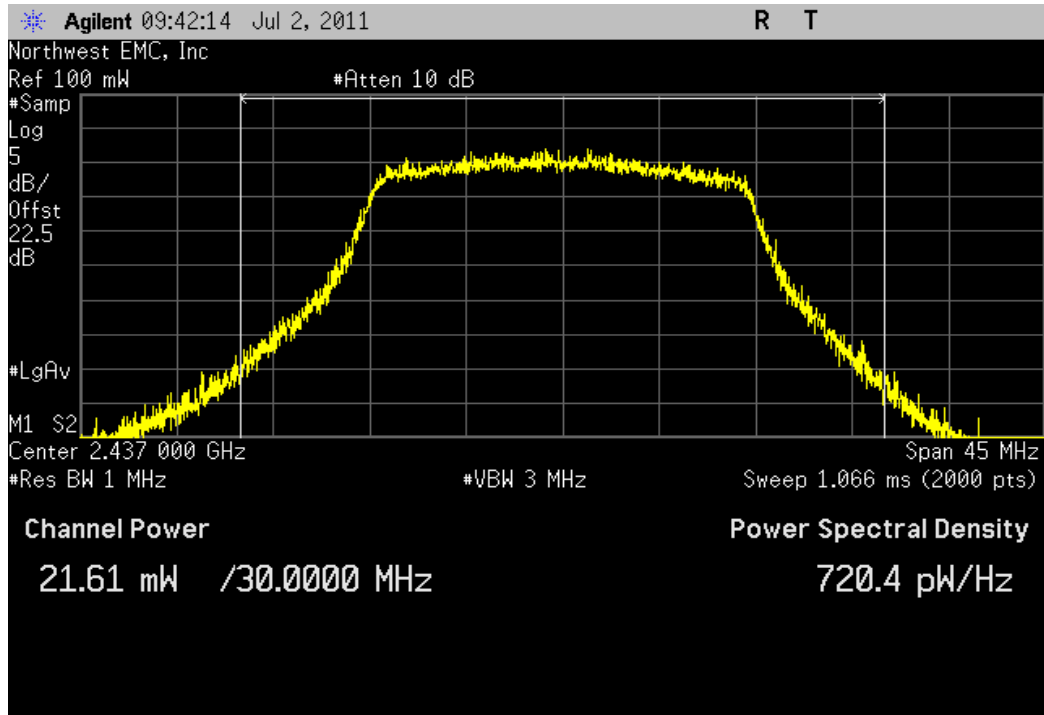
Output Power

802.11(n) MCS15, Mid Channel 6 (2437 MHz)

21.611 mW

< 1 W

Pass

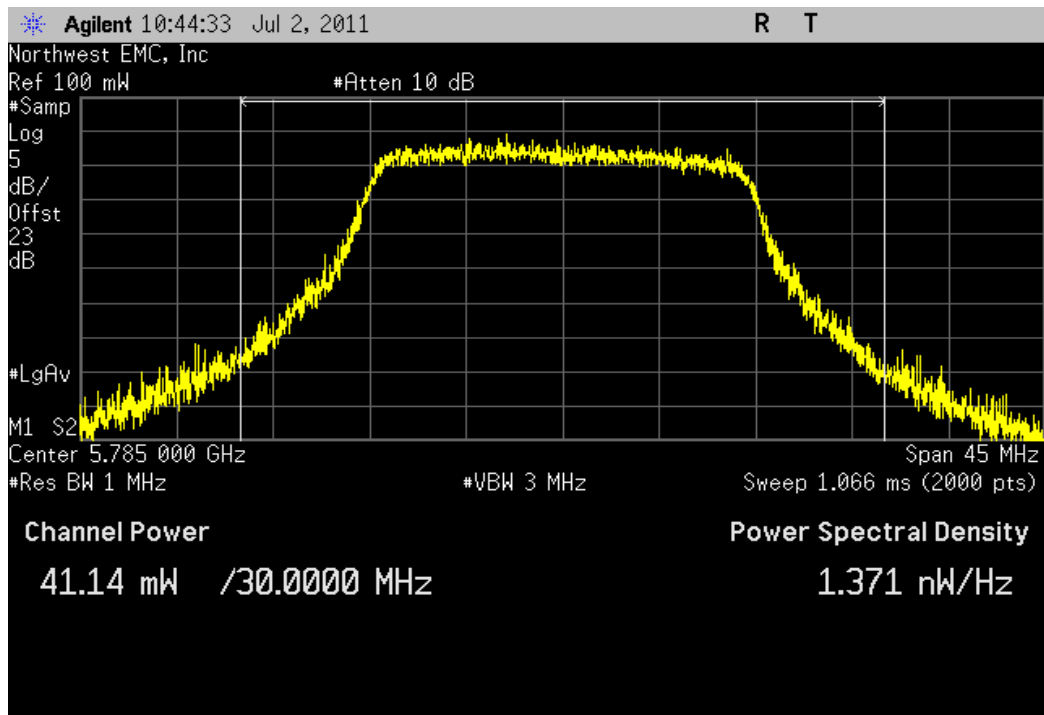


802.11(n) MCS15 5GHz, Mid Channel 157 (5785 MHz)

41.137 mW

< 1 W

Pass



NORTHWEST		Output Power		XMit 2011.04.20 PsaTx 2011.06.20	
EMC					
EUT: WMIA-199NI		Work Order: PROS0109			
Serial Number: 09435H1000039		Date: 07/07/11			
Customer: ProSoft Technology, Inc.		Temperature: 22.06°C			
Attendees: None		Humidity: 48%			
Project: None		Barometric Pres.: 1011			
Tested by: Jaemi Suh		Power: 120V/60Hz		Job Site: OC11	
TEST SPECIFICATIONS		TEST METHOD			
FCC 15.247:2011		ANSI C63.10:2009			
COMMENTS					
Chain 3. Operating at 802.11 a/g/n. Software power level set to 15.					
DEVIATIONS FROM TEST STANDARD					
Configuration #	3	Signature 			
		Value	Limit	Result	
802.11(g) 6 Mbps					
Low Channel 1 (2412 MHz)		28.906 mW	1 W	Pass	
Mid Channel 6 (2437 MHz)		23.766 mW	1 W	Pass	
High Channel 11 (2462 MHz)		23.238 mW	1 W	Pass	
802.11(g) 36 Mbps					
Low Channel 1 (2412 MHz)		24.165 mW	1 W	Pass	
Mid Channel 6 (2437 MHz)		22.806 mW	1 W	Pass	
High Channel 11 (2462 MHz)		21.967 mW	1 W	Pass	
802.11(g) 54 Mbps					
Low Channel 1 (2412 MHz)		25.443 mW	1 W	Pass	
Mid Channel 6 (2437 MHz)		21.191 mW	1 W	Pass	
High Channel 11 (2462 MHz)		21.854 mW	1 W	Pass	
802.11(n) MCS0					
Low Channel 1 (2412 MHz)		24.561 mW	1 W	Pass	
Mid Channel 6 (2437 MHz)		21.527 mW	1 W	Pass	
High Channel 11 (2462 MHz)		24.266 mW	1 W	Pass	
802.11(n) MCS7					
Low Channel 1 (2412 MHz)		24.65 mW	1 W	Pass	
Mid Channel 6 (2437 MHz)		19.924 mW	1 W	Pass	
High Channel 11 (2462 MHz)		21.431 mW	1 W	Pass	
802.11(n) MCS8					
Low Channel 1 (2412 MHz)		27.094 mW	1 W	Pass	
Mid Channel 6 (2437 MHz)		22.918 mW	1 W	Pass	
High Channel 11 (2462 MHz)		21.52 mW	1 W	Pass	
802.11(n) MCS15					
Low Channel 1 (2412 MHz)		24.696 mW	1 W	Pass	
Mid Channel 6 (2437 MHz)		20.917 mW	1 W	Pass	
High Channel 11 (2462 MHz)		21.142 mW	1 W	Pass	
802.11(n) MCS0(40 MHz)					
Low Channel 1 (2422 MHz)		22.28 mW	1 W	Pass	
Mid Channel 6 (2437 MHz)		22.049 mW	1 W	Pass	
High Channel 11 (2452 MHz)		23.685 mW	1 W	Pass	
802.11(n) MCS7(40 MHz)					
Low Channel 1 (2422 MHz)		22.594 mW	1 W	Pass	
Mid Channel 6 (2437 MHz)		21.209 mW	1 W	Pass	
High Channel 11 (2452 MHz)		20.037 mW	1 W	Pass	
802.11(n) MCS8(40 MHz)					
Low Channel 1 (2422 MHz)		22.254 mW	1 W	Pass	
Mid Channel 6 (2437 MHz)		23.192 mW	1 W	Pass	
High Channel 11 (2452 MHz)		23.633 mW	1 W	Pass	
802.11(n) MCS15(40 MHz)					
Low Channel 1 (2422 MHz)		22.835 mW	1 W	Pass	
Mid Channel 6 (2437 MHz)		23.13 mW	1 W	Pass	
High Channel 11 (2452 MHz)		20.243 mW	1 W	Pass	
802.11(a) 6 Mbps					
Low Channel 149 (5745 MHz)		20.544 mW	1 W	Pass	
Mid Channel 157 (5785 MHz)		27.134 mW	1 W	Pass	
High Channel 165 (5825 MHz)		28.781 mW	1 W	Pass	
802.11(a) 36 Mbps					
Low Channel 149 (5745 MHz)		24.07 mW	1 W	Pass	
Mid Channel 157 (5785 MHz)		24.572 mW	1 W	Pass	
High Channel 165 (5825 MHz)		24.935 mW	1 W	Pass	
802.11(a) 54 Mbps					
Low Channel 149 (5745 MHz)		23.248 mW	1 W	Pass	
Mid Channel 157 (5785 MHz)		25.726 mW	1 W	Pass	
High Channel 165 (5825 MHz)		25.376 mW	1 W	Pass	
802.11(n) MCS0 5GHz					
Low Channel 149 (5745 MHz)		25.409 mW	1 W	Pass	
Mid Channel 157 (5785 MHz)		21.618 mW	1 W	Pass	
High Channel 165 (5825 MHz)		24.842 mW	1 W	Pass	
802.11(n) MCS7 5GHz					
Low Channel 149 (5745 MHz)		22.635 mW	1 W	Pass	
Mid Channel 157 (5785 MHz)		23.37 mW	1 W	Pass	
High Channel 165 (5825 MHz)		25.007 mW	1 W	Pass	
802.11(n) MCS8 5GHz					
Low Channel 149 (5745 MHz)		24.516 mW	1 W	Pass	
Mid Channel 157 (5785 MHz)		24.619 mW	1 W	Pass	
High Channel 165 (5825 MHz)		28.112 mW	1 W	Pass	
802.11(n) MCS15 5GHz					
Low Channel 149 (5745 MHz)		21.93 mW	1 W	Pass	
Mid Channel 157 (5785 MHz)		22.88 mW	1 W	Pass	
High Channel 165 (5825 MHz)		24.14 mW	1 W	Pass	
802.11(n) MCS0(40 MHz)5GHz					
Low Channel 149 (5755 MHz)		25.171 mW	1 W	Pass	
High Channel 165 (5795 MHz)		23.528 mW	1 W	Pass	
802.11(n) MCS7(40 MHz) 5GHz					
Low Channel 149 (5755 MHz)		22.042 mW	1 W	Pass	
High Channel 165 (5795 MHz)		23.467 mW	1 W	Pass	
802.11(n) MCS8(40 MHz) 5GHz					
Low Channel 149 (5755 MHz)		25.25 mW	1 W	Pass	
High Channel 165 (5795 MHz)		26.203 mW	1 W	Pass	
802.11(n) MCS15(40 MHz) 5GHz					
Low Channel 149 (5755 MHz)		24.893 mW	1 W	Pass	
High Channel 165 (5795 MHz)		24.071 mW	1 W	Pass	

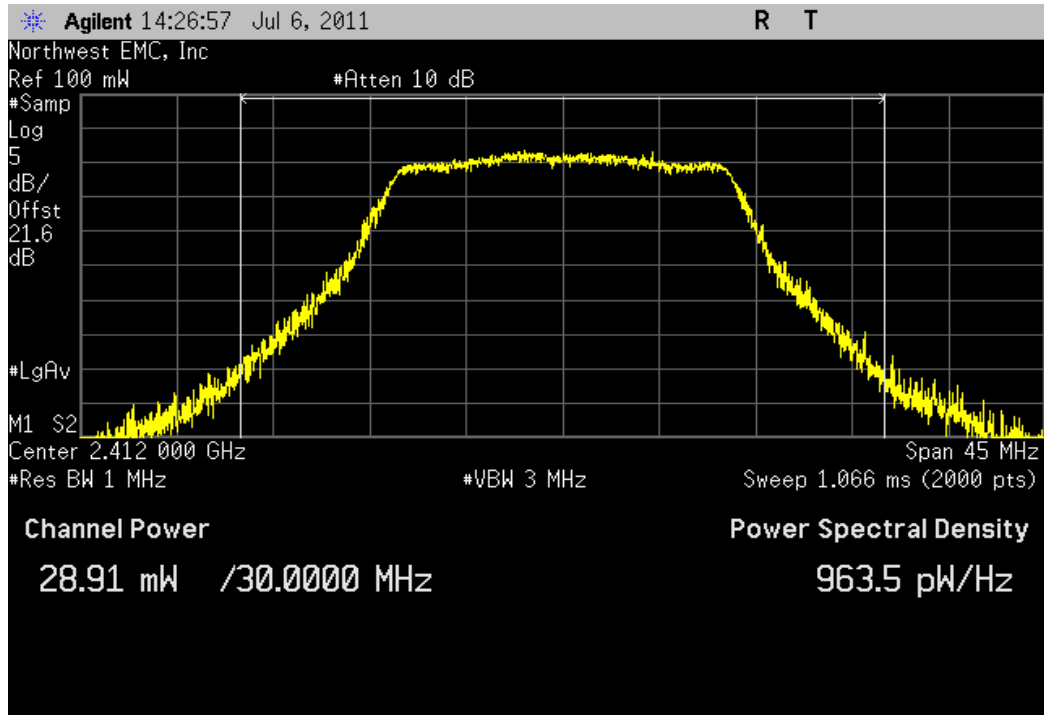
Output Power

802.11(g) 6 Mbps, Low Channel 1 (2412 MHz)

28.906 mW

1 W

Pass

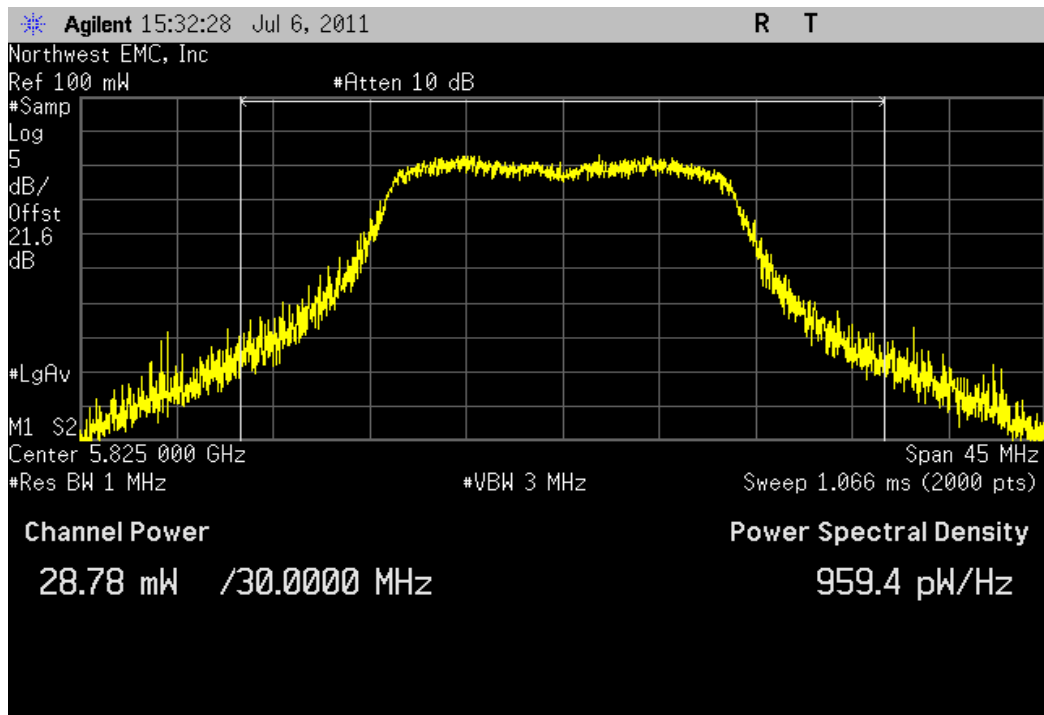


802.11(a) 6 Mbps, High Channel 165 (5825 MHz)

28.781 mW

1 W

Pass



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

TEST EQUIPMENT					
Description	Manufacturer	Model	ID	Last Cal.	Interval
Power Sensor	Agilent	E4412A	SQE	4/21/2010	24
Power Meter	Hewlett Packard	E4418A	SPA	4/21/2010	24
Signal Generator	Agilent	E8257D	TGU	1/26/2011	12
Spectrum Analyzer	Agilent	E4440A	AFG	4/28/2011	12

MEASUREMENT UNCERTAINTY

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 for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

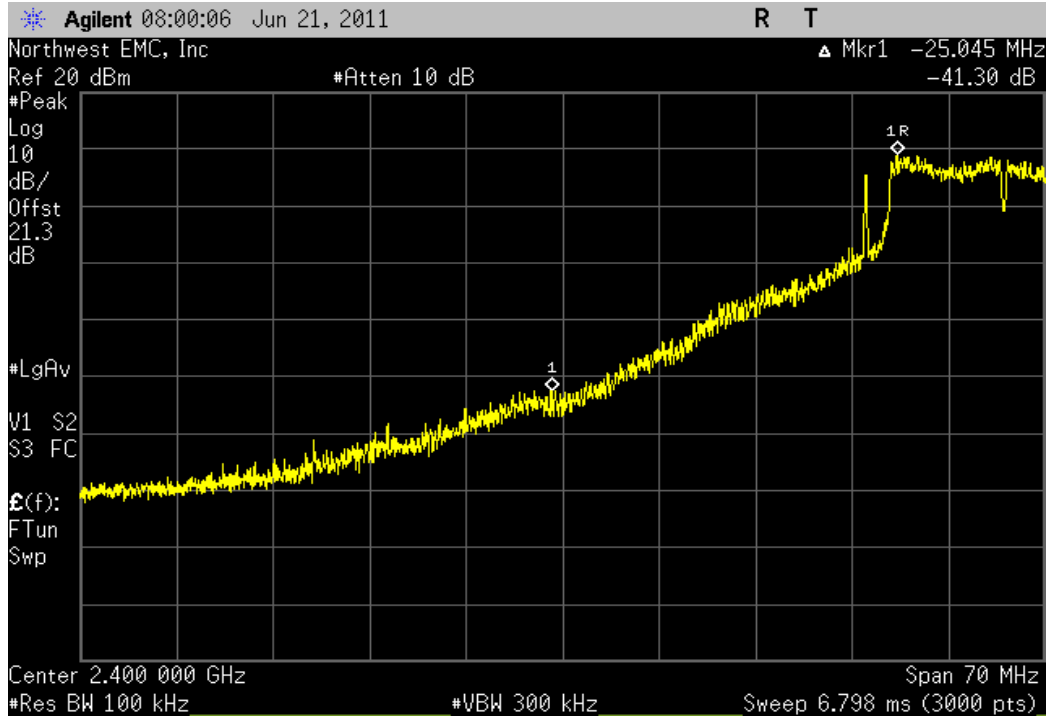
The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in the ISM band. The channels closest to the band edges were selected. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the required data rates available in 802.11(a)/(g)/(n).

The spectrum was scanned across each band edge from 30 MHz below the band edge to 30 MHz above the band edge.

NORTHWEST		EMC		Band Edge Compliance		XMit 2011.04.20 PsaTx 2011.06.20	
EUT: WMIA-199NI				Work Order: PROS0109			
Serial Number: 09435H1000039				Date: 06/20/11			
Customer: ProSoft Technology, Inc.				Temperature: 22.06°C			
Attendees: None				Humidity: 48%			
Project: None				Barometric Pres.: 1011			
Tested by: Jaemi Suh		Power: 120V/60Hz		Job Site: OC11			
TEST SPECIFICATIONS				TEST METHOD			
FCC 15.247:2011				ANSI C63.10:2009			
COMMENTS							
Chain 1. Operating at 802.11 a/g/n. PC Power Level = 15.							
DEVIATIONS FROM TEST STANDARD							
Configuration #	1	Signature 					
				Value	Limit	Result	
802.11(g) 6 Mbps							
Low Channel 1 (2412 MHz)				-41.3 dBc	≤ -20 dBc	Pass	
High Channel 11 (2462 MHz)				-24.02 dBc	≤ -20 dBc	Pass	
802.11(n) MCS8							
Low Channel 1 (2412 MHz)				-30.88 dBc	≤ -20 dBc	Pass	
High Channel 11 (2462 MHz)				-21.62 dBc	≤ -20 dBc	Pass	
802.11(n)(40 MHz) MCS8							
Low Channel 1 (2422 MHz)				-20.93 dBc	≤ -20 dBc	Pass	
High Channel 11 (2452 MHz)				-26.46 dBc	≤ -20 dBc	Pass	
802.11(a) 54 Mbps							
Low Channel 149 (5745 MHz)				-22.85 dBc	≤ -20 dBc	Pass	
High Channel 165 (5825 MHz)				-29.24 dBc	≤ -20 dBc	Pass	
802.11(n) MCS8							
Low Channel 149 (5745 MHz)				-21.52 dBc	≤ -20 dBc	Pass	
High Channel 165 (5825 MHz)				-27.19 dBc	≤ -20 dBc	Pass	
802.11(n) (40 MHz) MCS7							
Low Channel 149 (5755 MHz)				-20.6 dBc	≤ -20 dBc	Pass	
High Channel 165 (5795 MHz)				-38.04 dBc	≤ -20 dBc	Pass	

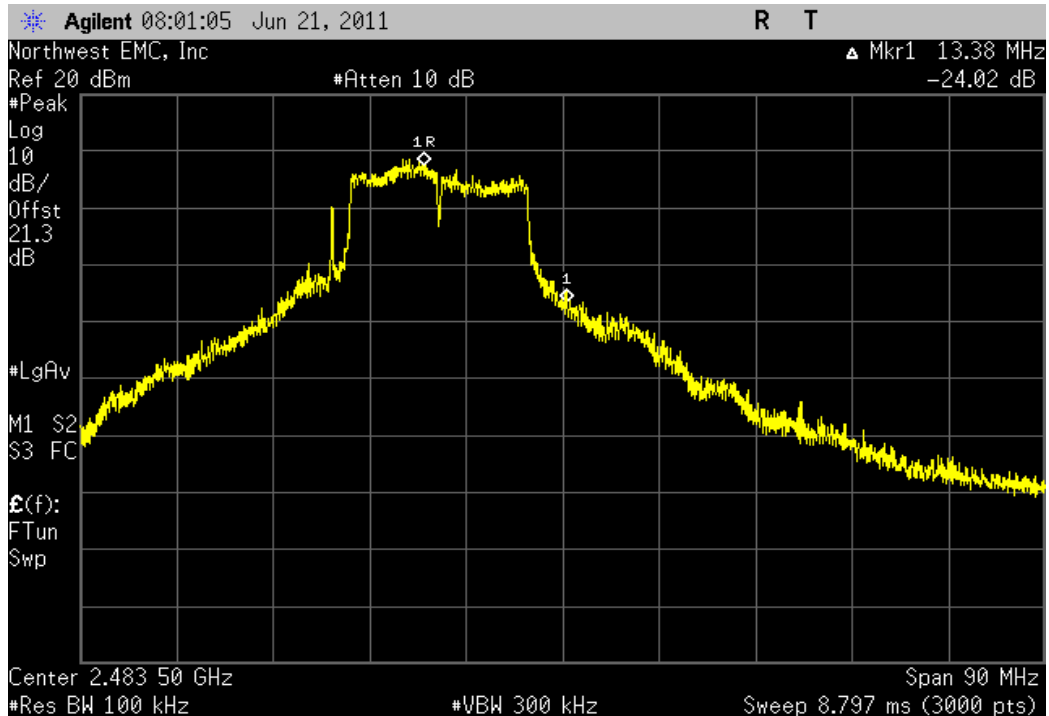
802.11(g) 6 Mbps, Low Channel 1 (2412 MHz)

				Value	Limit	Result
				-41.3 dBc	≤ -20 dBc	Pass



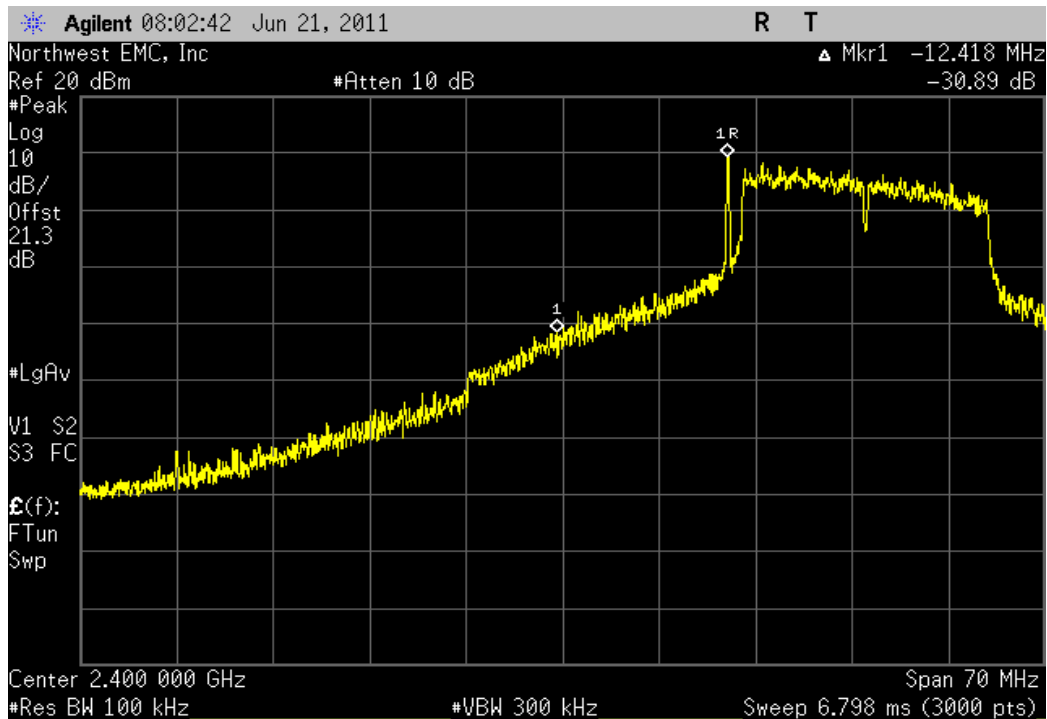
802.11(g) 6 Mbps, High Channel 11 (2462 MHz)

				Value	Limit	Result
				-24.02 dBc	≤ -20 dBc	Pass



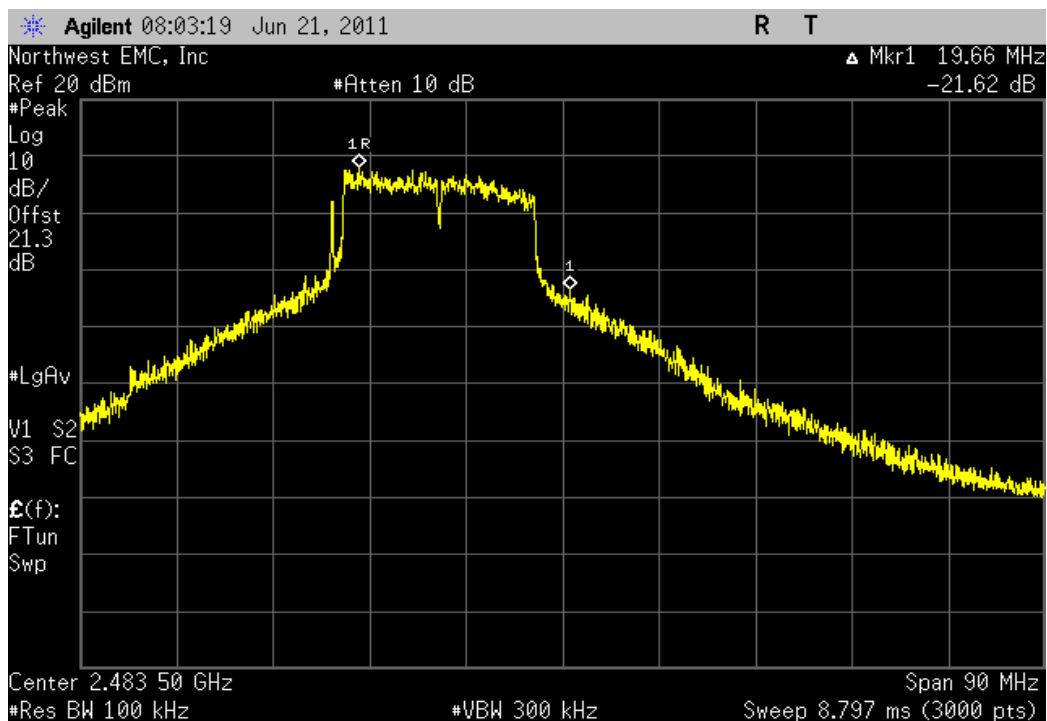
802.11(n) MCS8, Low Channel 1 (2412 MHz)

				Value	Limit	Result
				-30.88 dBc	≤ -20 dBc	Pass



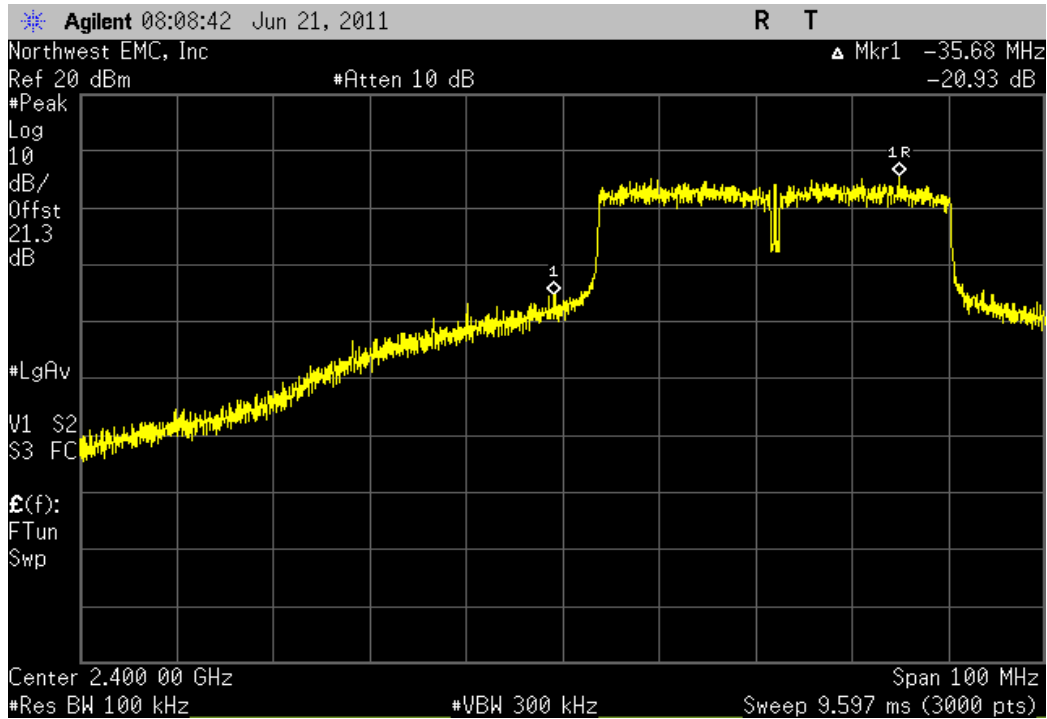
802.11(n) MCS8, High Channel 11 (2462 MHz)

				Value	Limit	Result
				-21.62 dBc	≤ -20 dBc	Pass



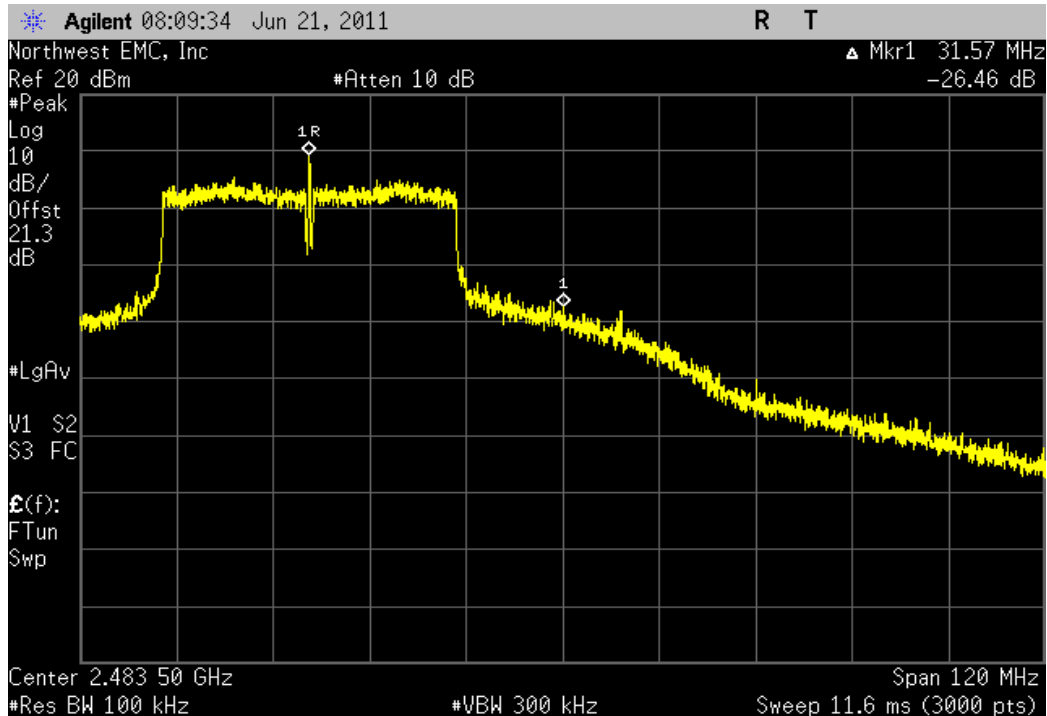
802.11(n)(40 MHz) MCS15, Low Channel 3 (2422 MHz)

	Value	Limit	Result
	-20.93 dBc	≤ -20 dBc	Pass



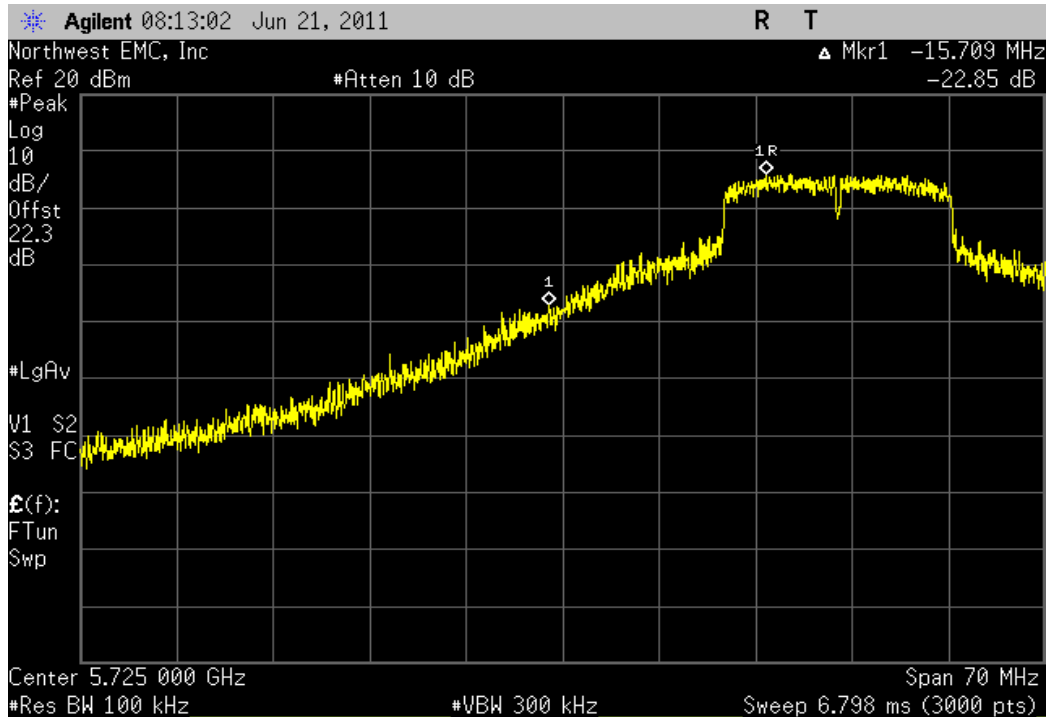
802.11(n)(40 MHz) MCS15, High Channel 9 (2452 MHz)

	Value	Limit	Result
	-26.46 dBc	≤ -20 dBc	Pass



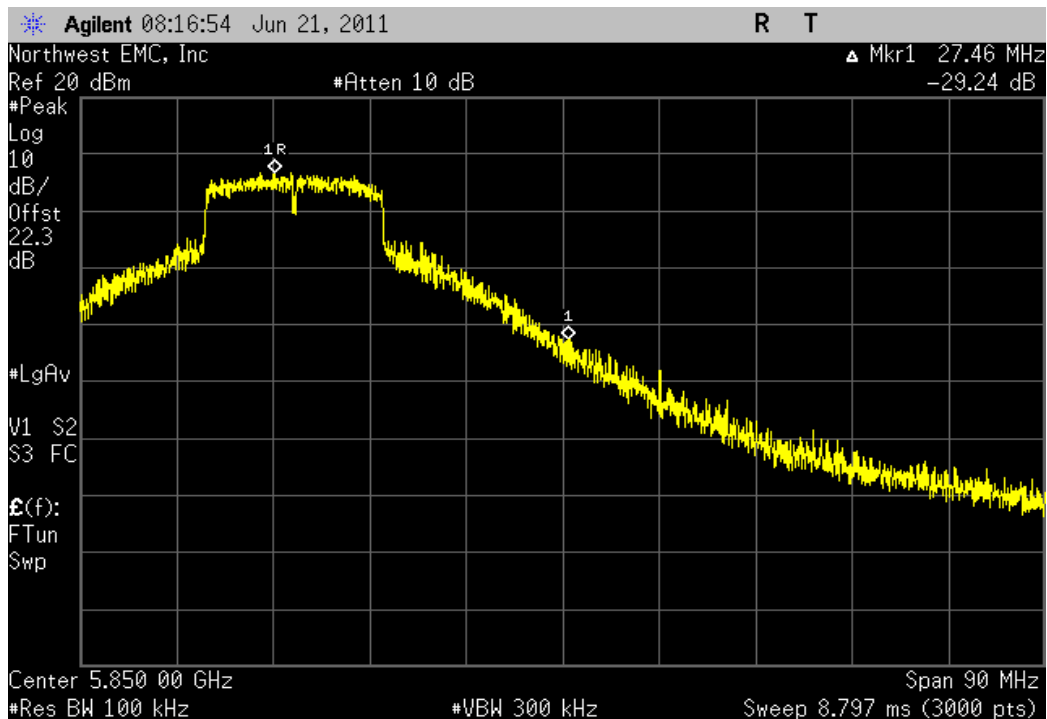
802.11(a) 6 Mbps, Low Channel 149 (5745 MHz)

				Value	Limit	Result
				-22.85 dBc	≤ -20 dBc	Pass



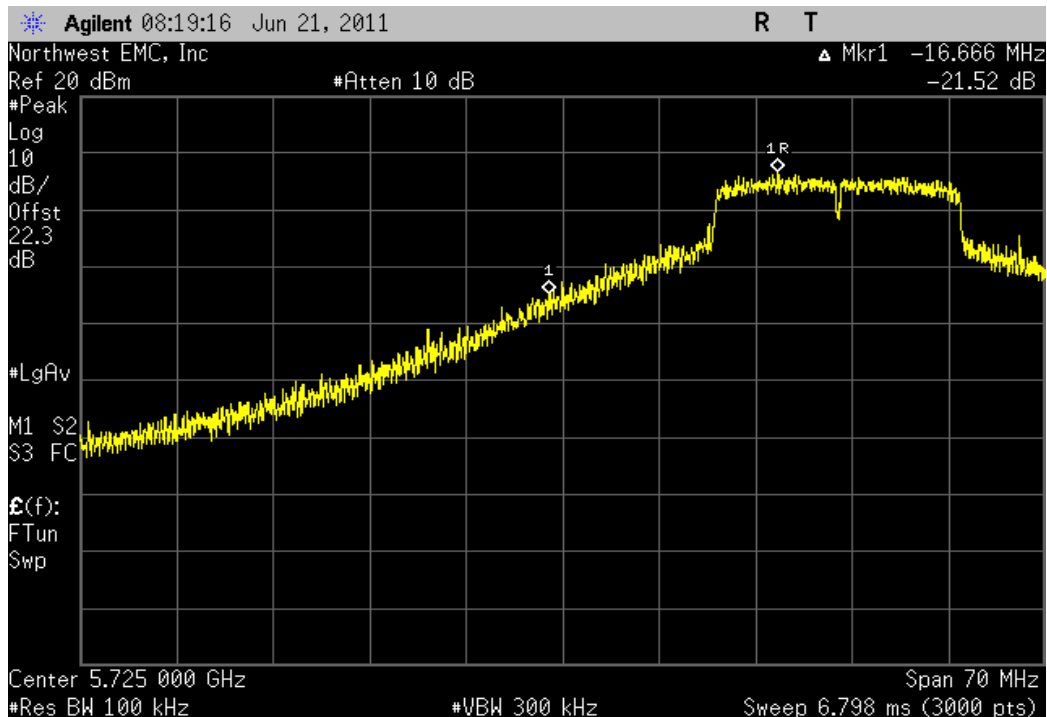
802.11(a) 6 Mbps, High Channel 165 (5825 MHz)

				Value	Limit	Result
				-29.24 dBc	≤ -20 dBc	Pass



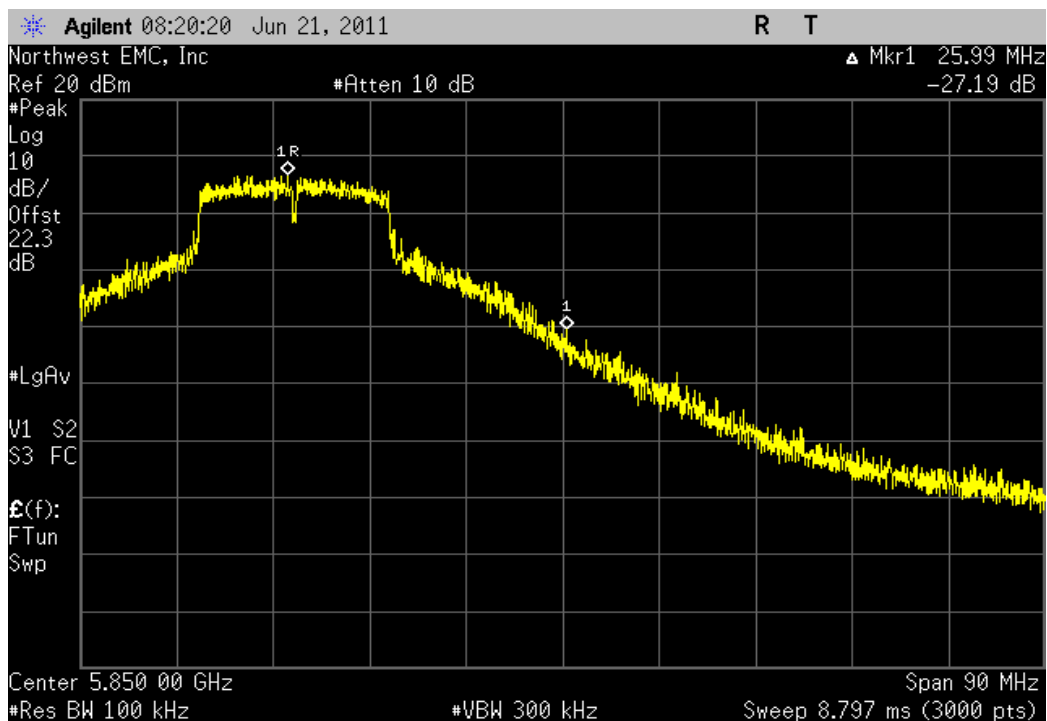
802.11(n) MCS0, Low Channel 149 (5745 MHz)

				Value	Limit	Result
				-21.52 dBc	≤ -20 dBc	Pass



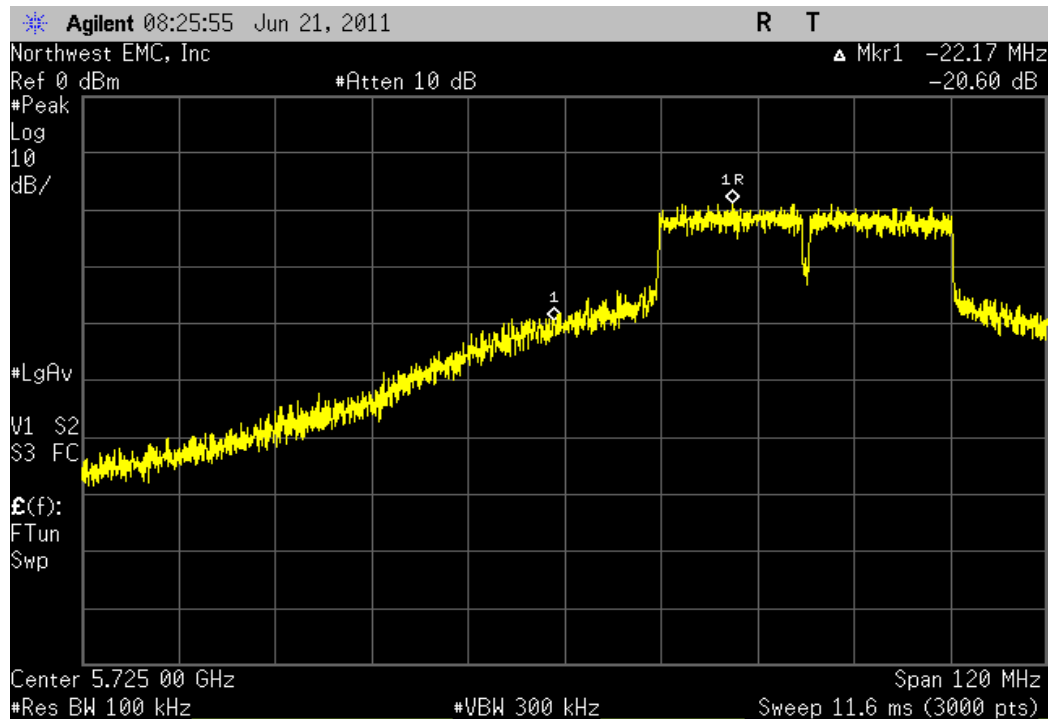
802.11(n) MCS0, High Channel 165 (5825 MHz)

				Value	Limit	Result
				-27.19 dBc	≤ -20 dBc	Pass



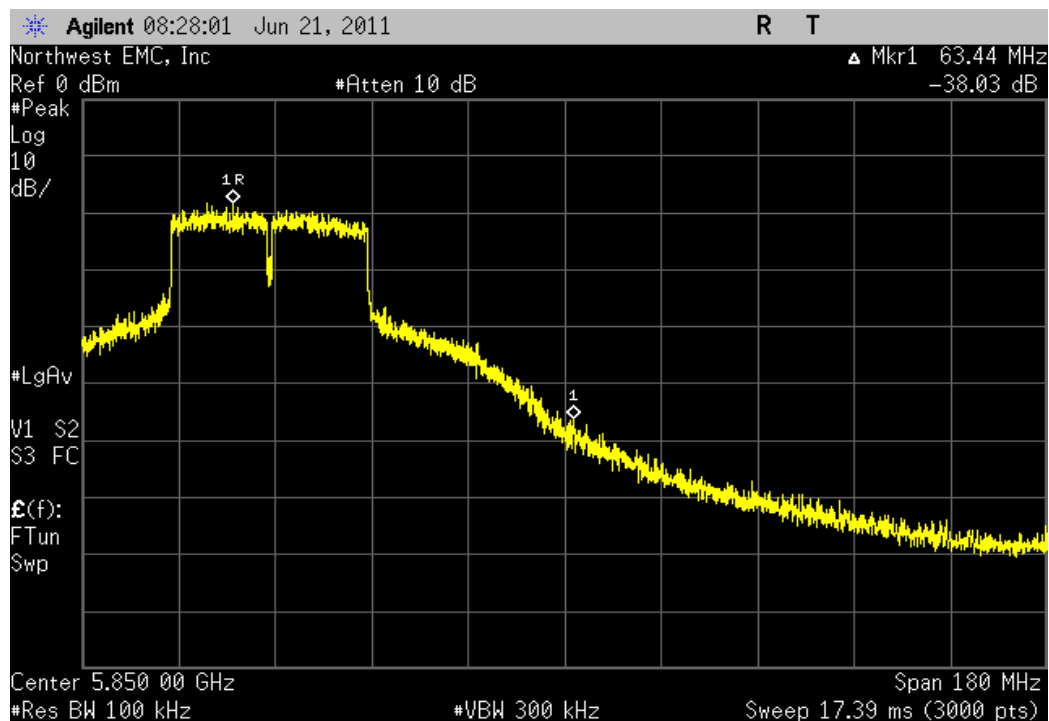
802.11(n) (40 MHz) MCS15, Low Channel 151 (5755 MHz)

				Value	Limit	Result
				-20.6 dBc	≤ -20 dBc	Pass



802.11(n) (40 MHz) MCS15, High Channel 159 (5795 MHz)

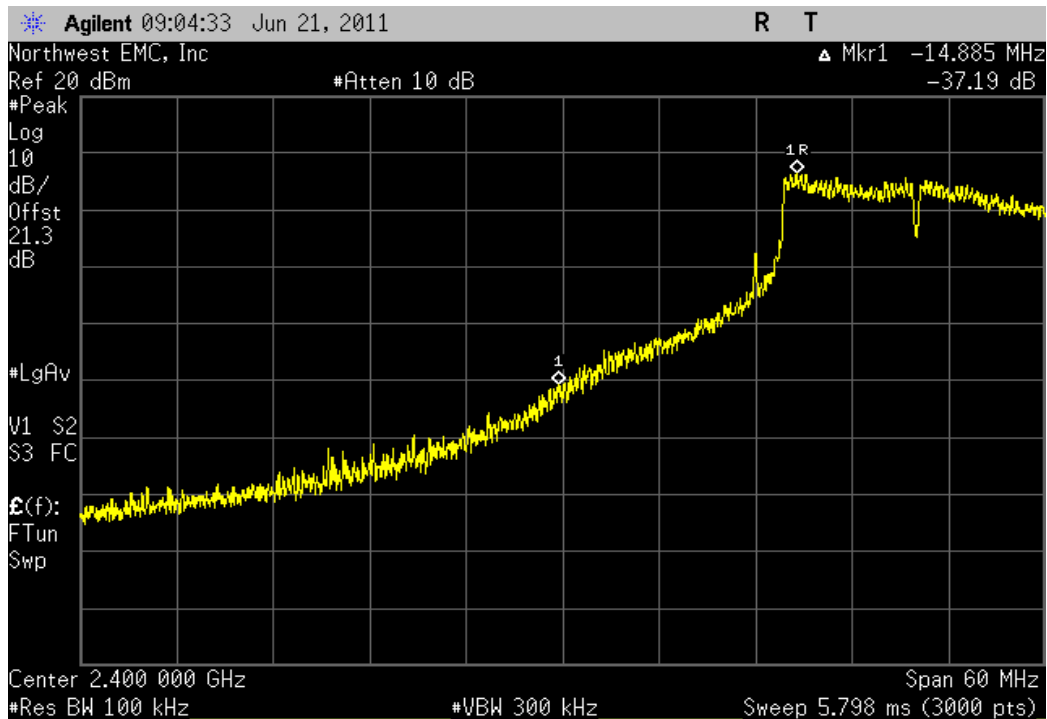
				Value	Limit	Result
				-38.04 dBc	≤ -20 dBc	Pass



NORTHWEST		EMC		Band Edge Compliance		XMit 2011.04.20 PsaTx 2011.06.20	
EUT: WMIA-199NI				Work Order: PROS0109			
Serial Number: 09435H1000039				Date: 06/20/11			
Customer: ProSoft Technology, Inc.				Temperature: 22.06°C			
Attendees: None				Humidity: 48%			
Project: None				Barometric Pres.: 1011			
Tested by: Jaemi Suh		Power: 120V/60Hz		Job Site: OC11			
TEST SPECIFICATIONS				TEST METHOD			
FCC 15.247:2011				ANSI C63.10:2009			
COMMENTS							
Chain 2. Operating at 802.11 a/g/n. PC Power Level = 15.							
DEVIATIONS FROM TEST STANDARD							
Configuration #	1	Signature 					
				Value	Limit	Result	
802.11(g) 54 Mbps							
Low Channel 1 (2412 MHz)				-37.19 dBc	≤ -20 dBc	Pass	
High Channel 11 (2462 MHz)				-26.17 dBc	≤ -20 dBc	Pass	
802.11(n) MCS15							
Low Channel 1 (2412 MHz)				-33.94 dBc	≤ -20 dBc	Pass	
High Channel 11 (2462 MHz)				-27.19 dBc	≤ -20 dBc	Pass	
802.11(n)(40 MHz) MCS15							
Low Channel 1 (2422 MHz)				-23.39 dBc	≤ -20 dBc	Pass	
High Channel 11 (2452 MHz)				-31.68 dBc	≤ -20 dBc	Pass	
802.11(a) 6 Mbps							
Low Channel 149 (5745 MHz)				-37.18 dBc	≤ -20 dBc	Pass	
High Channel 165 (5825 MHz)				-48.51 dBc	≤ -20 dBc	Pass	
802.11(n) MCS15							
Low Channel 149 (5745 MHz)				-34.7 dBc	≤ -20 dBc	Pass	
High Channel 165 (5825 MHz)				-46.8 dBc	≤ -20 dBc	Pass	
802.11(n) (40 MHz) MCS8							
Low Channel 149 (5755 MHz)				-36.85 dBc	≤ -20 dBc	Pass	
High Channel 165 (5795 MHz)				-45.93 dBc	≤ -20 dBc	Pass	

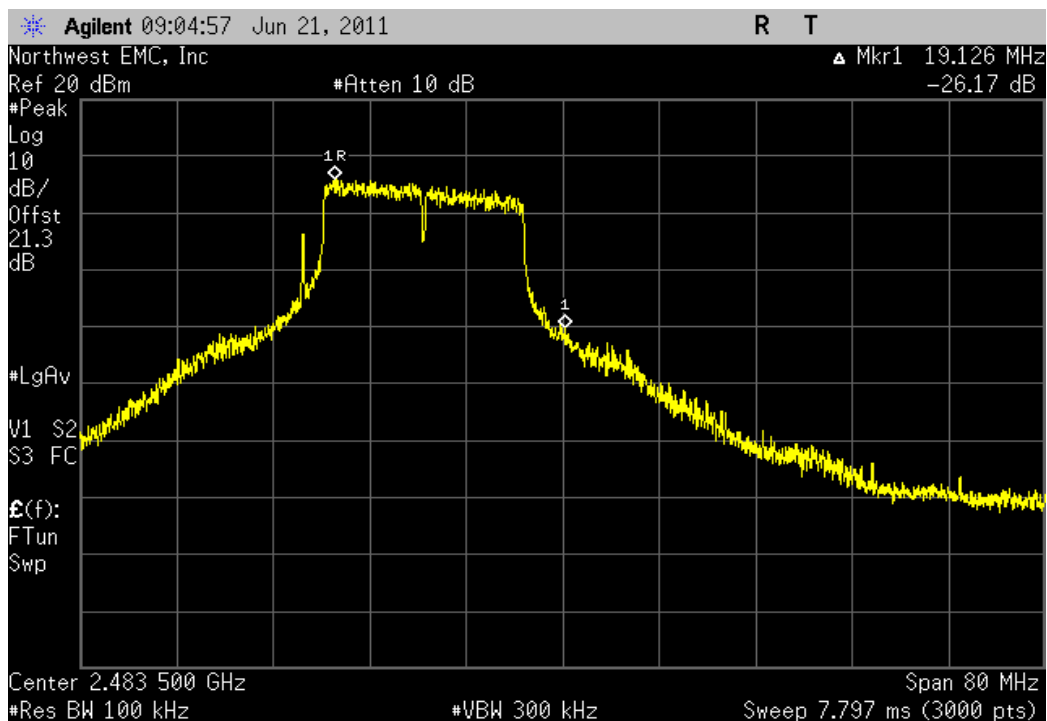
802.11(g) 6 Mbps, Low Channel 1 (2412 MHz)

				Value	Limit	Result
				-37.19 dBc	≤ -20 dBc	Pass



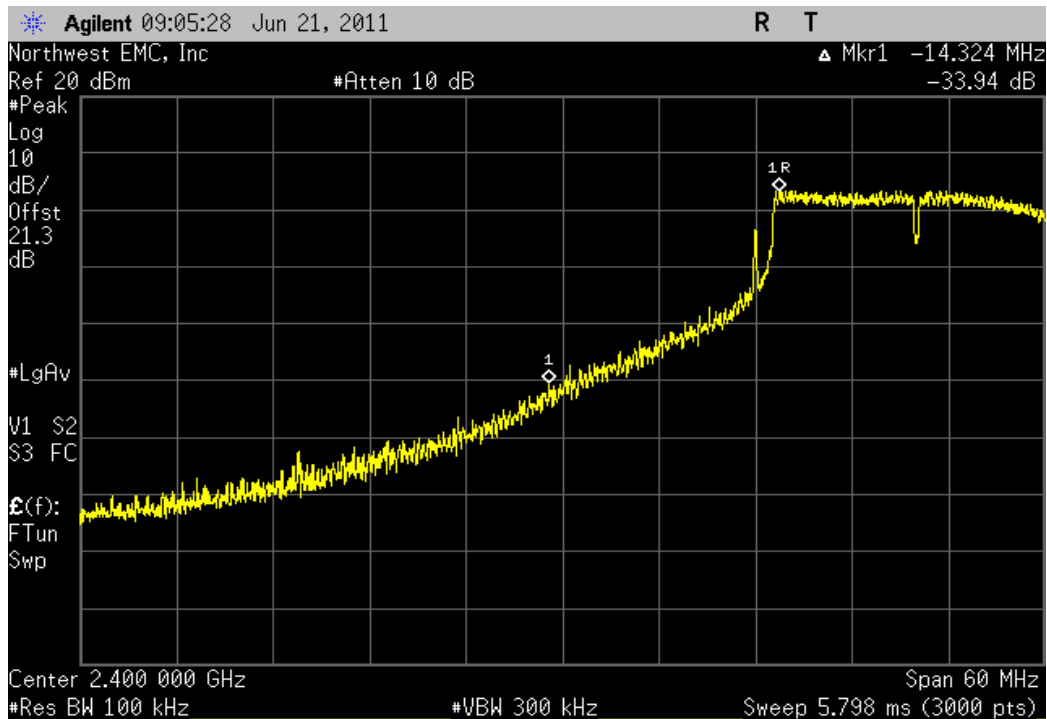
802.11(g) 6 Mbps, High Channel 11 (2462 MHz)

				Value	Limit	Result
				-26.17 dBc	≤ -20 dBc	Pass



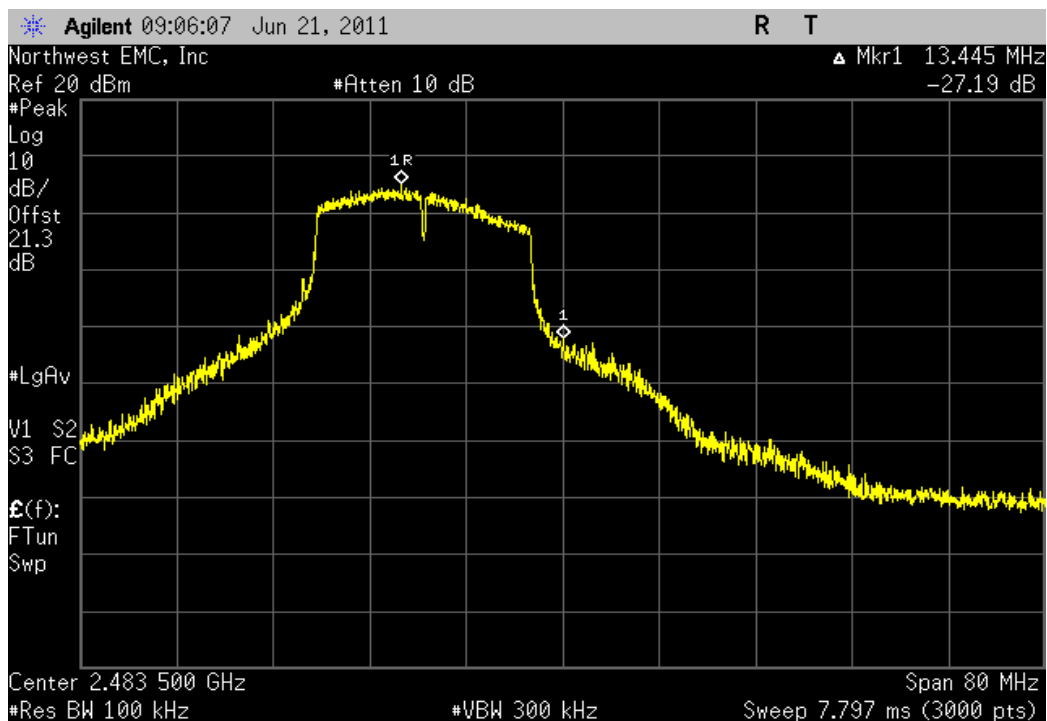
802.11(n) MCS8, Low Channel 1 (2412 MHz)

				Value	Limit	Result
				-33.94 dBc	≤ -20 dBc	Pass



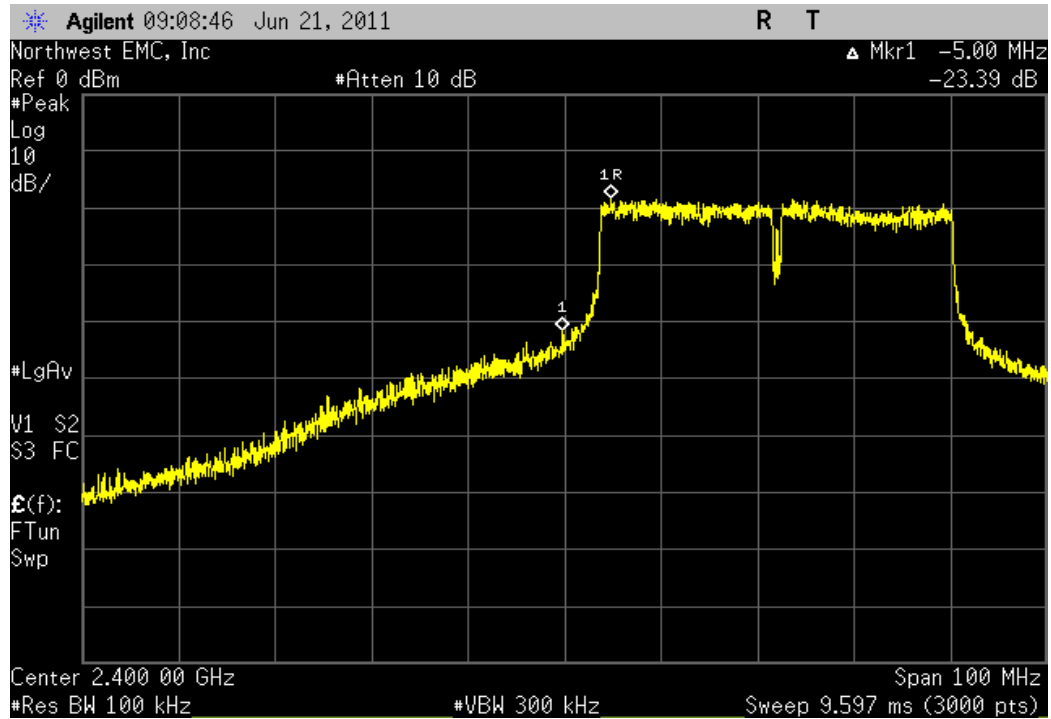
802.11(n) MCS8, High Channel 11 (2462 MHz)

				Value	Limit	Result
				-27.19 dBc	≤ -20 dBc	Pass



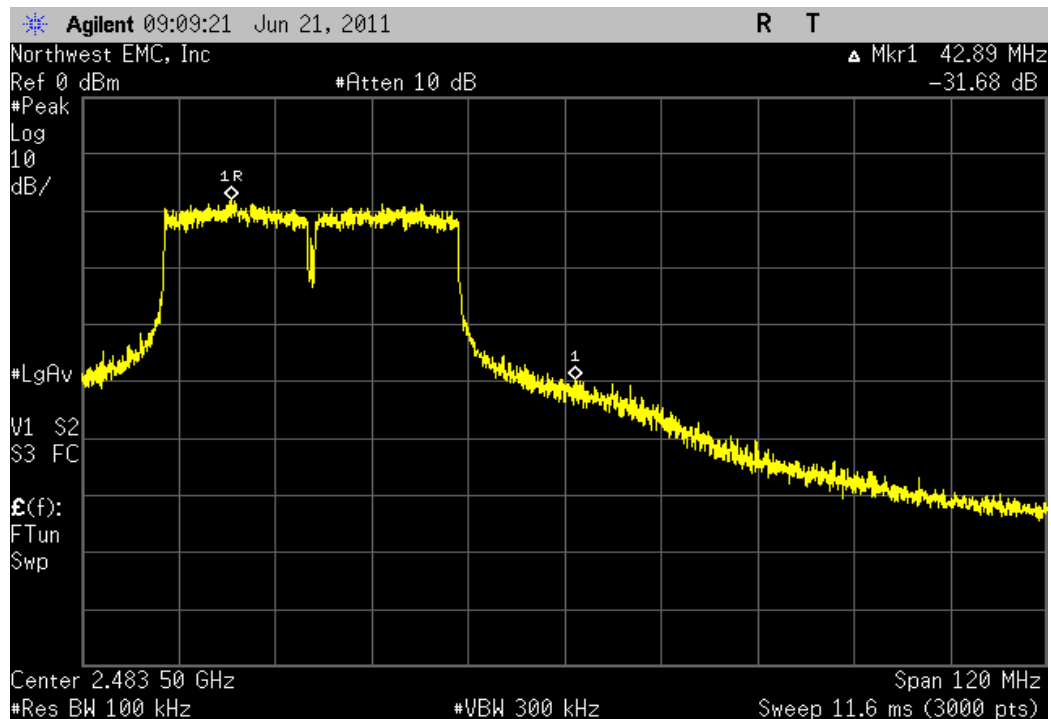
802.11(n)(40 MHz) MCS15, Low Channel 3 (2422 MHz)

				Value	Limit	Result
				-23.39 dBc	≤ -20 dBc	Pass



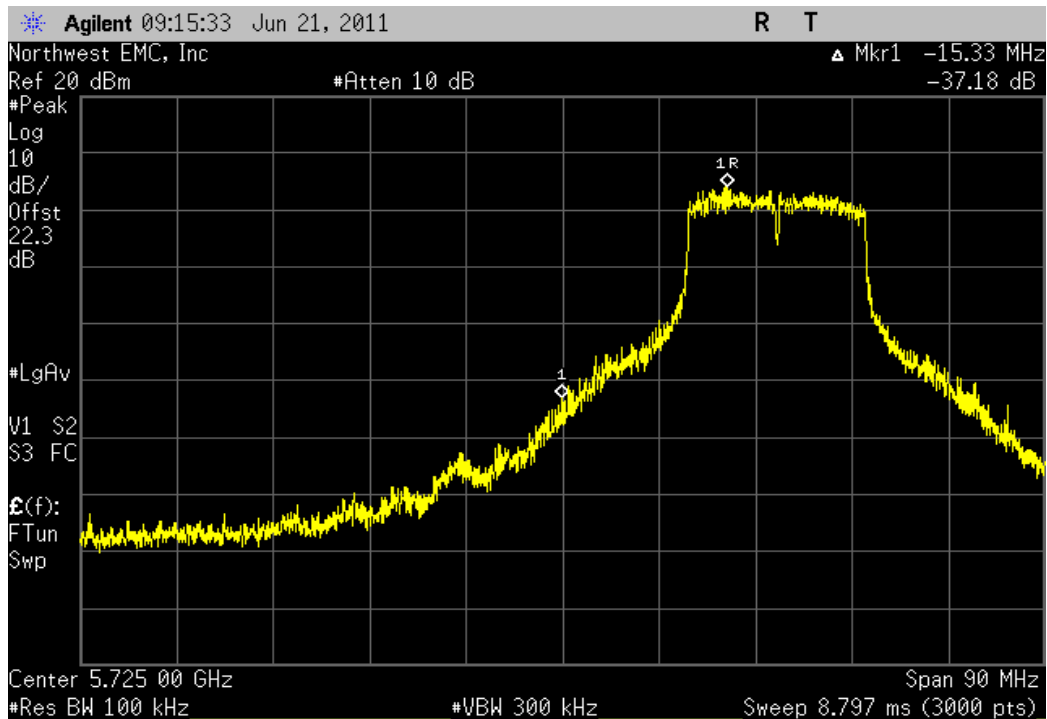
802.11(n)(40 MHz) MCS15, High Channel 9 (2452 MHz)

				Value	Limit	Result
				-31.68 dBc	≤ -20 dBc	Pass



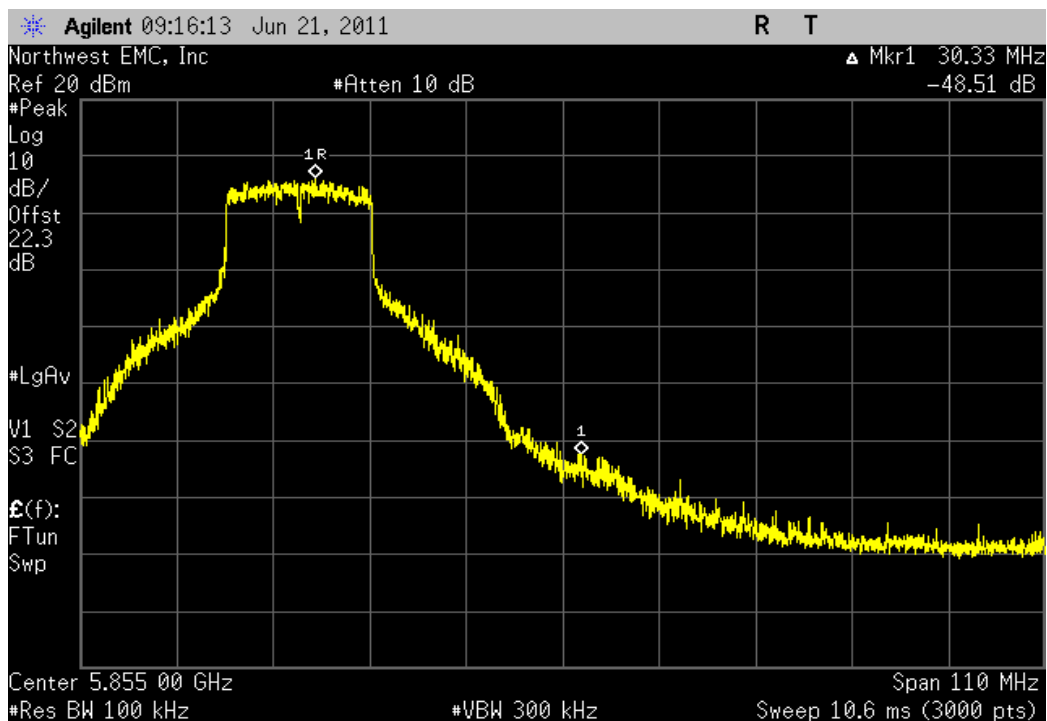
802.11(a) 6 Mbps, Low Channel 149 (5745 MHz)

				Value	Limit	Result
				-37.18 dBc	≤ -20 dBc	Pass



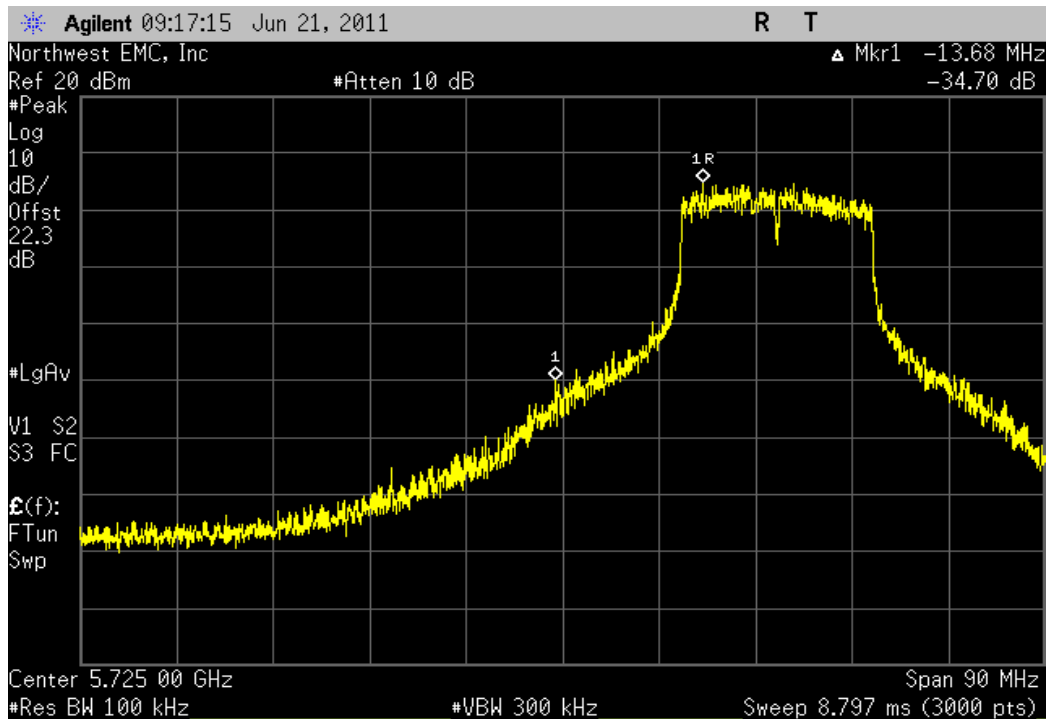
802.11(a) 6 Mbps, High Channel 165 (5825 MHz)

				Value	Limit	Result
				-48.51 dBc	≤ -20 dBc	Pass



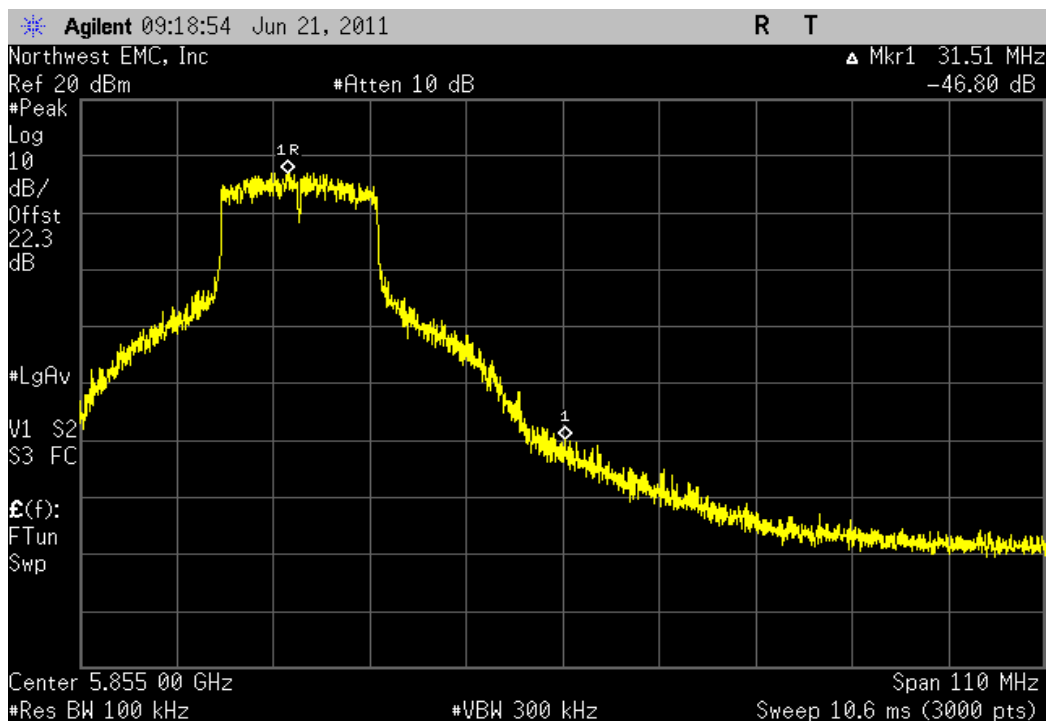
802.11(n) MCS0, Low Channel 149 (5745 MHz)

				Value	Limit	Result
				-34.7 dBc	≤ -20 dBc	Pass



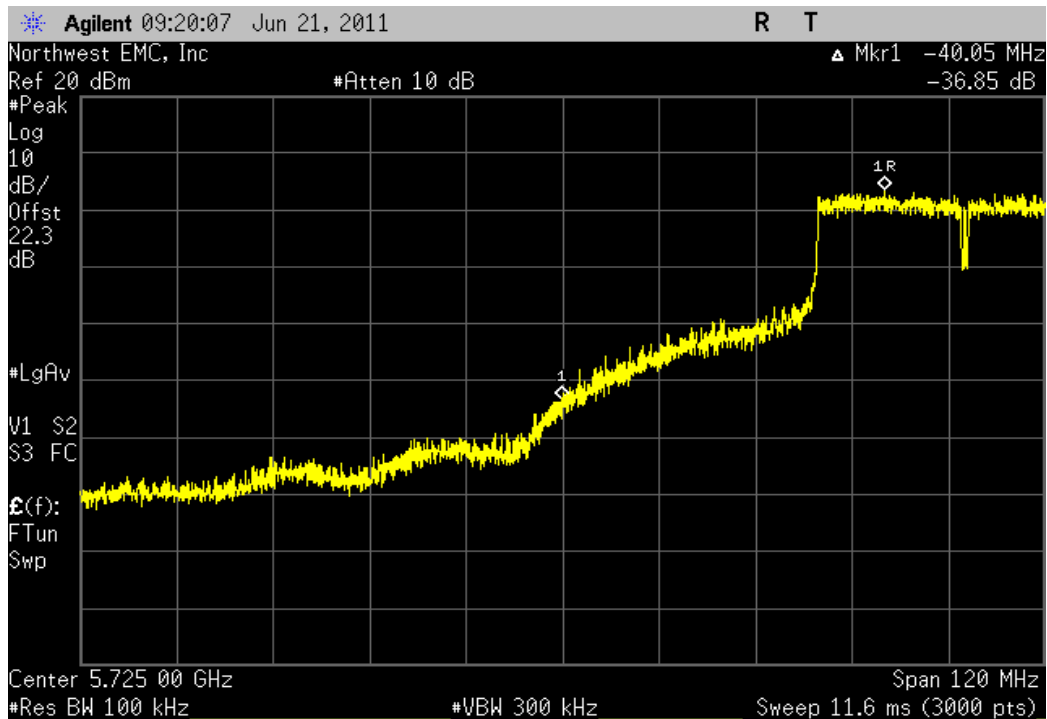
802.11(n) MCS0, High Channel 165 (5825 MHz)

				Value	Limit	Result
				-46.8 dBc	≤ -20 dBc	Pass



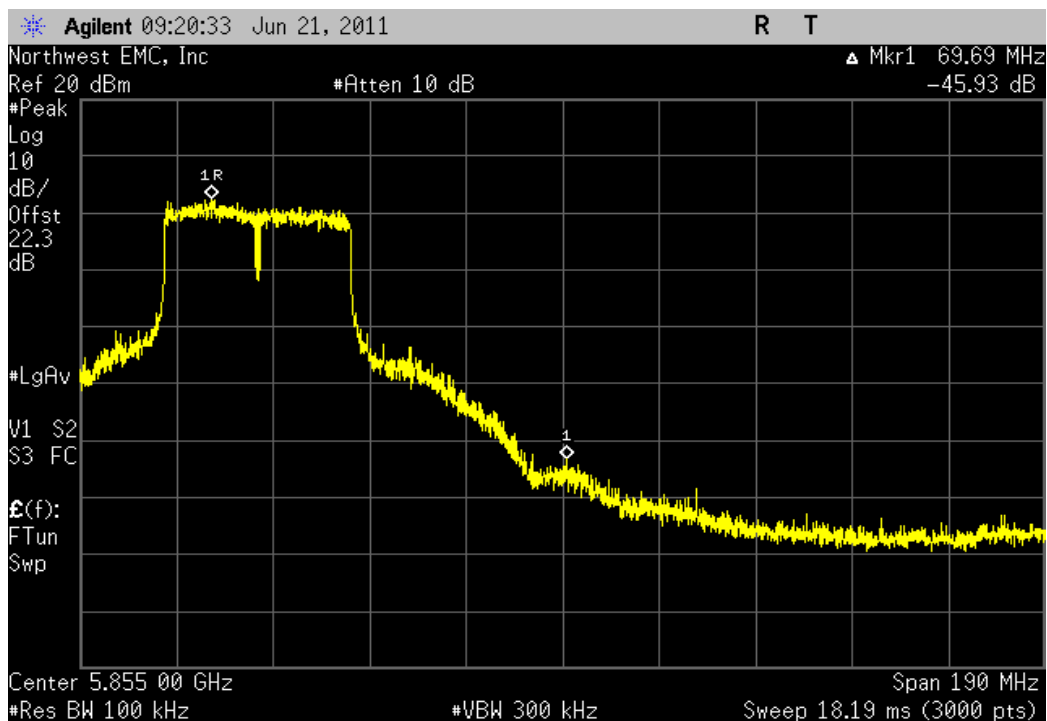
802.11(n) (40 MHz) MCS15, Low Channel 151 (5755 MHz)

				Value	Limit	Result
				-36.85 dBc	≤ -20 dBc	Pass



802.11(n) (40 MHz) MCS15, High Channel 159 (5795 MHz)

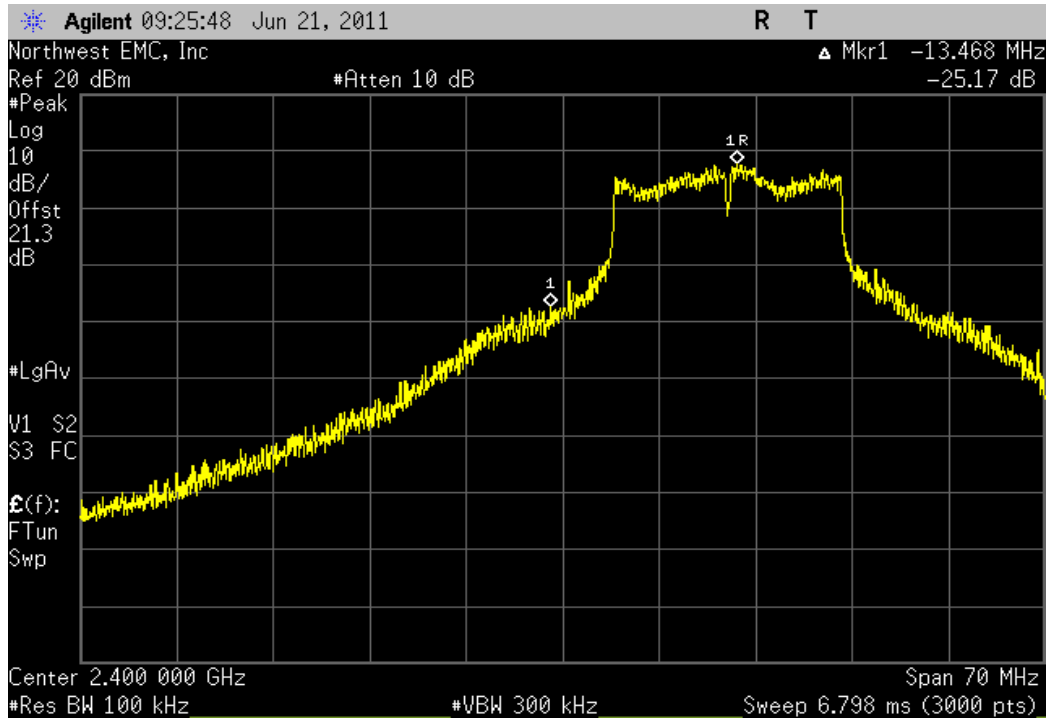
				Value	Limit	Result
				-45.93 dBc	≤ -20 dBc	Pass



NORTHWEST		EMC		Band Edge Compliance		XMit 2011.04.20 PsaTx 2011.06.20	
EUT: WMIA-199NI				Work Order: PROS0109			
Serial Number: 09435H1000039				Date: 06/20/11			
Customer: ProSoft Technology, Inc.				Temperature: 22.06°C			
Attendees: None				Humidity: 48%			
Project: None				Barometric Pres.: 1011			
Tested by: Jaemi Suh		Power: 120V/60Hz		Job Site: OC11			
TEST SPECIFICATIONS				TEST METHOD			
FCC 15.247:2011				ANSI C63.10:2009			
COMMENTS							
Chain 3. Operating at 802.11 a/g/n. PC Power Level = 15.							
DEVIATIONS FROM TEST STANDARD							
Configuration #	1	Signature 					
				Value	Limit	Result	
802.11(g) 54 Mbps							
Low Channel 1 (2412 MHz)				-25.17 dBc	≤ -20 dBc	Pass	
High Channel 11 (2462 MHz)				-36.4 dBc	≤ -20 dBc	Pass	
802.11(n) MCS7							
Low Channel 1 (2412 MHz)				-21.24 dBc	≤ -20 dBc	Pass	
High Channel 11 (2462 MHz)				-28.95 dBc	≤ -20 dBc	Pass	
802.11(n)(40 MHz) MCS15							
Low Channel 1 (2422 MHz)				-23.8 dBc	≤ -20 dBc	Pass	
High Channel 11 (2452 MHz)				-24.69 dBc	≤ -20 dBc	Pass	
802.11(a) 54 Mbps							
Low Channel 149 (5745 MHz)				-28.2 dBc	≤ -20 dBc	Pass	
High Channel 165 (5825 MHz)				-44.13 dBc	≤ -20 dBc	Pass	
802.11(n) MCS7							
Low Channel 149 (5745 MHz)				-27.5 dBc	≤ -20 dBc	Pass	
High Channel 165 (5825 MHz)				-42.79 dBc	≤ -20 dBc	Pass	
802.11(n) (40 MHz) MCS0							
Low Channel 149 (5755 MHz)				-21.12 dBc	≤ -20 dBc	Pass	
High Channel 165 (5795 MHz)				-41.43 dBc	≤ -20 dBc	Pass	

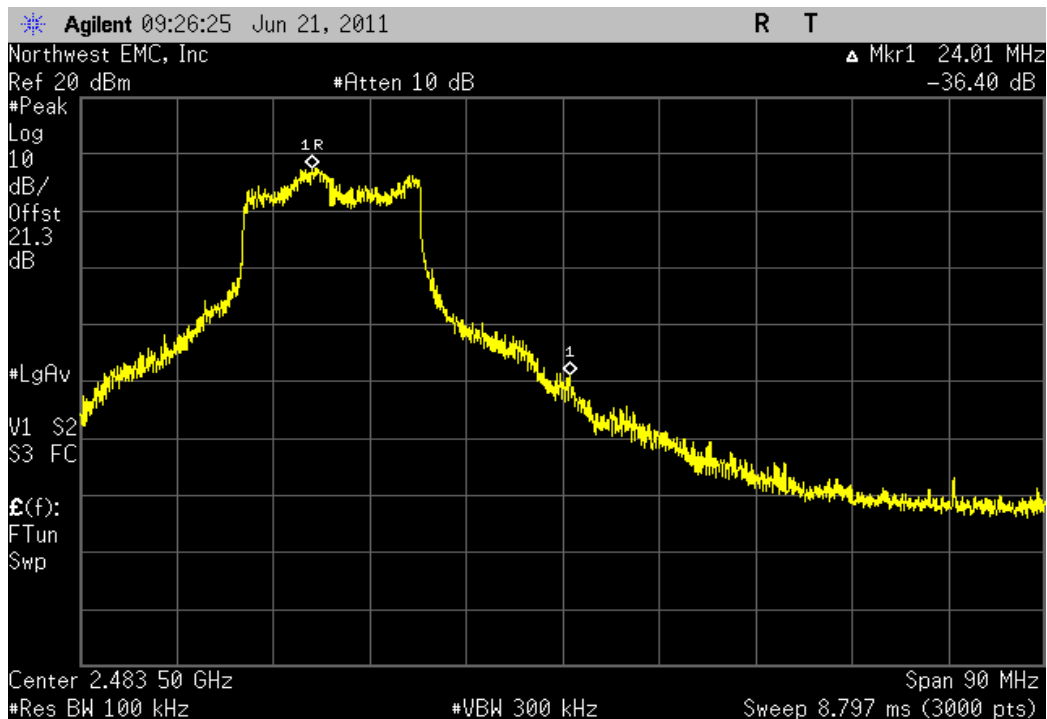
802.11(g) 36 Mbps, Low Channel 1 (2412 MHz)

				Value	Limit	Result
				-25.17 dBc	≤ -20 dBc	Pass



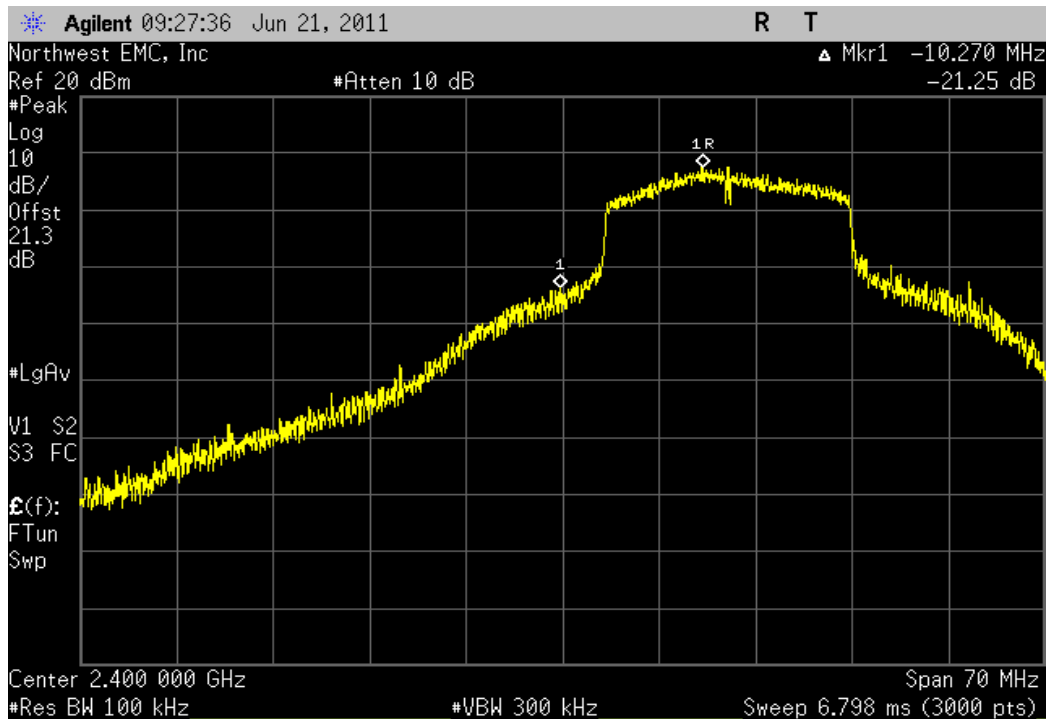
802.11(g) 36 Mbps, High Channel 11 (2462 MHz)

				Value	Limit	Result
				-36.4 dBc	≤ -20 dBc	Pass



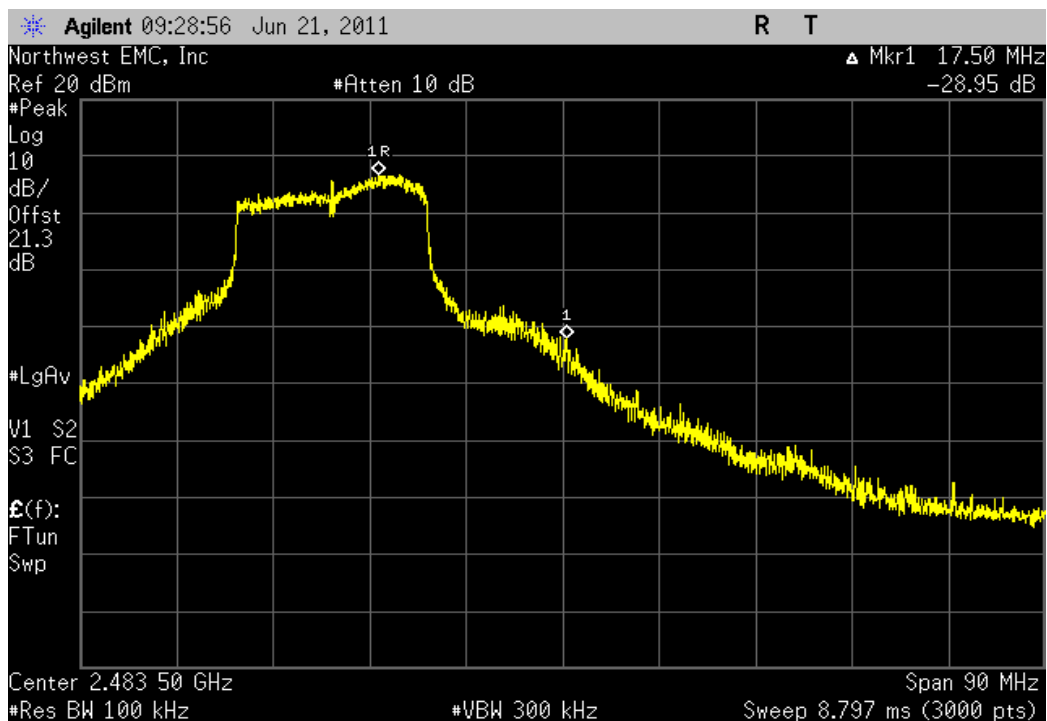
802.11(n) MCS0, Low Channel 1 (2412 MHz)

				Value	Limit	Result
				-21.24 dBc	≤ -20 dBc	Pass



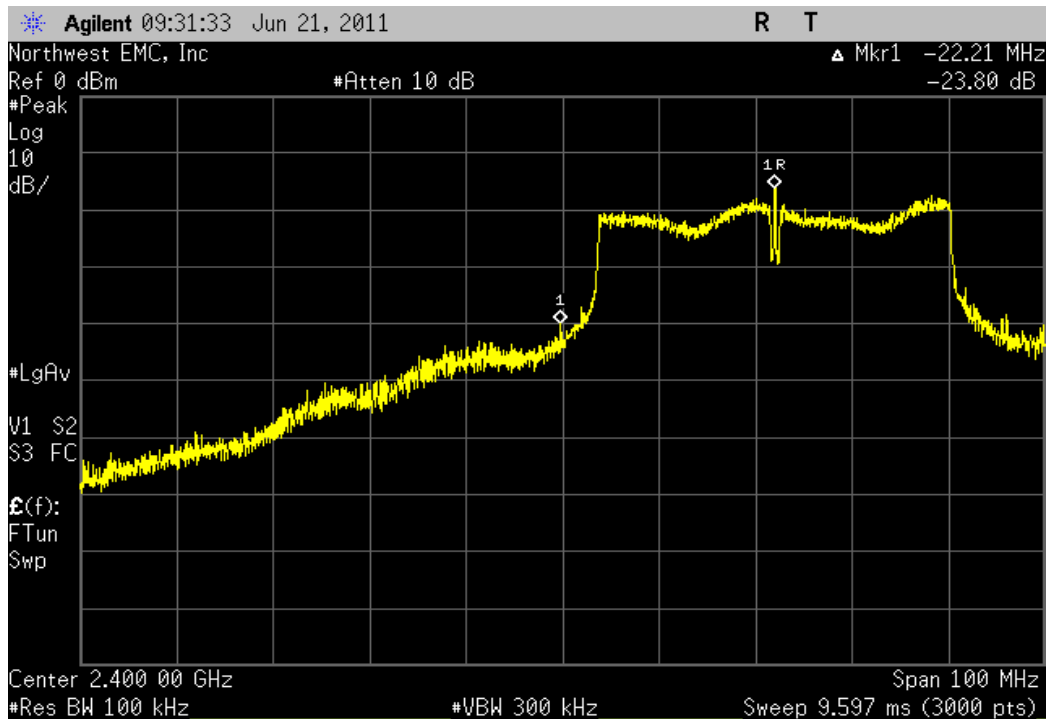
802.11(n) MCS0, High Channel 11 (2462 MHz)

				Value	Limit	Result
				-28.95 dBc	≤ -20 dBc	Pass



802.11(n)(40 MHz) MCS0, Low Channel 3 (2422 MHz)

				Value	Limit	Result
				-23.8 dBc	≤ -20 dBc	Pass



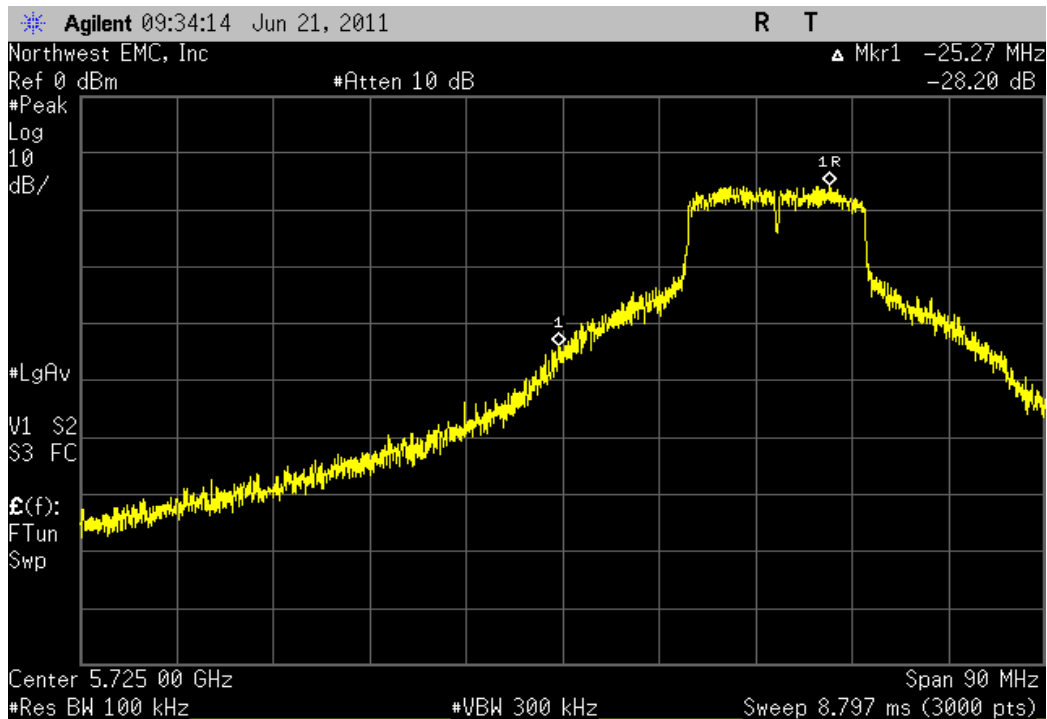
802.11(n)(40 MHz) MCS0, High Channel 9 (2452 MHz)

				Value	Limit	Result
				-24.69 dBc	≤ -20 dBc	Pass



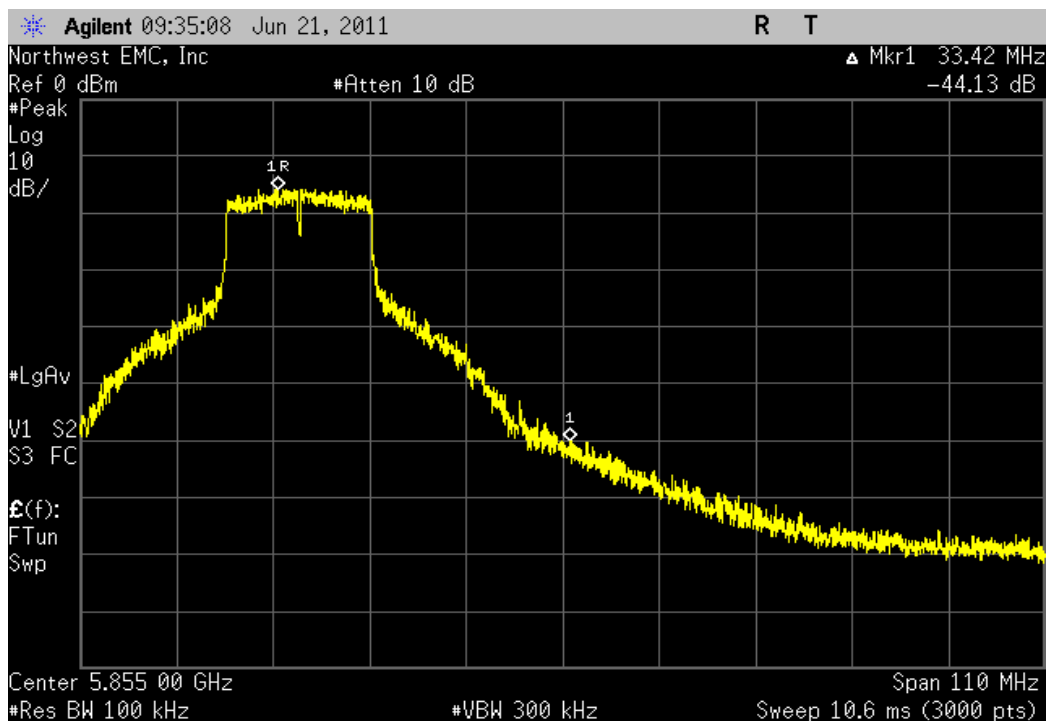
802.11(a) 36 Mbps, Low Channel 149 (5745 MHz)

				Value	Limit	Result
				-28.2 dBc	≤ -20 dBc	Pass



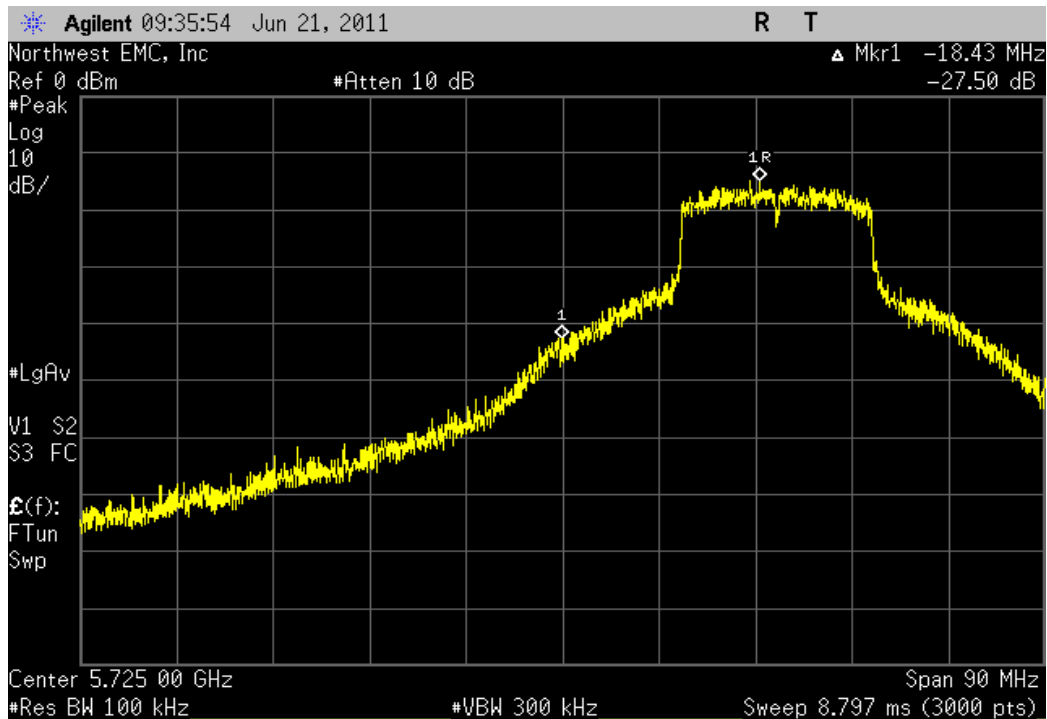
802.11(a) 36 Mbps, High Channel 165 (5825 MHz)

				Value	Limit	Result
				-44.13 dBc	≤ -20 dBc	Pass



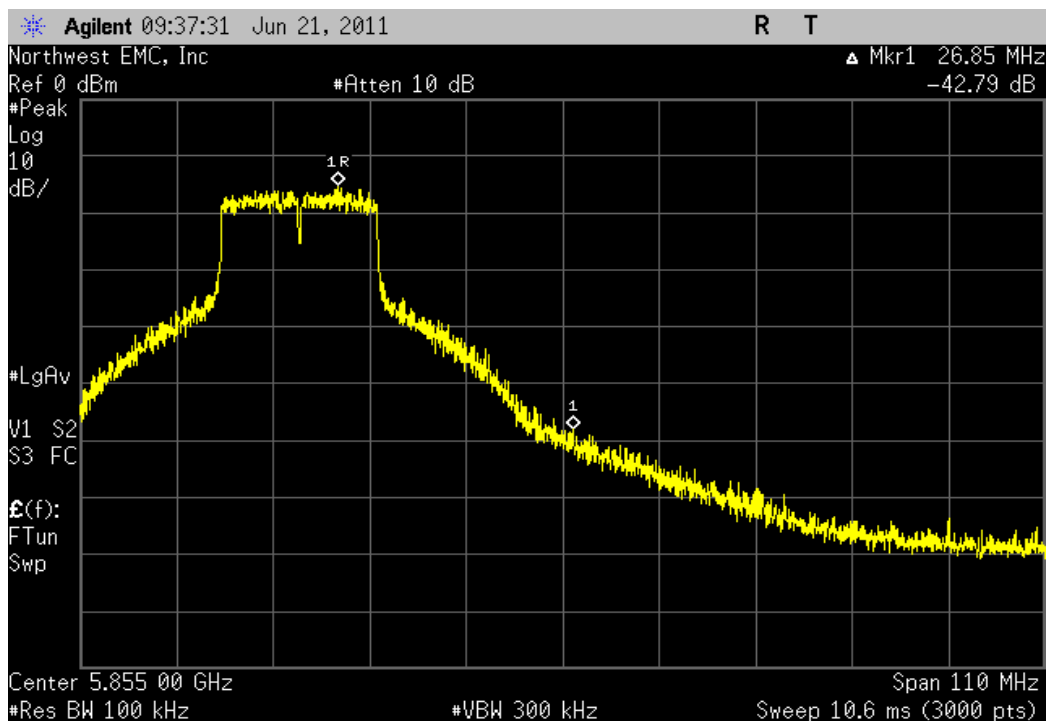
802.11(n) MCS7, Low Channel 149 (5745 MHz)

				Value	Limit	Result
				-27.5 dBc	≤ -20 dBc	Pass



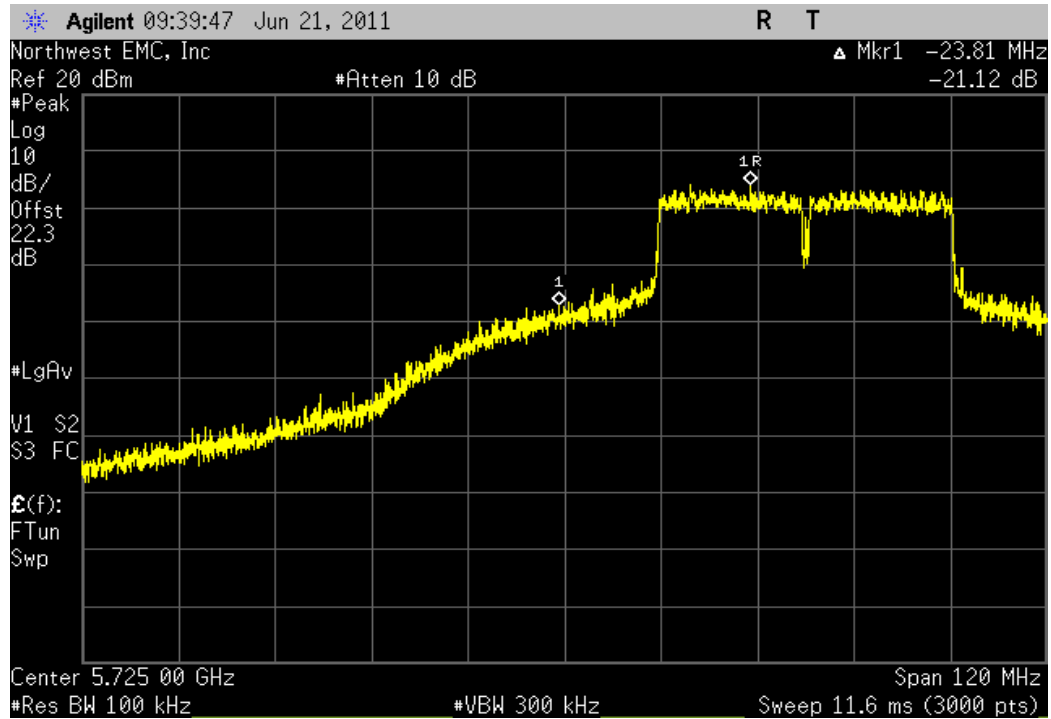
802.11(n) MCS7, High Channel 165 (5825 MHz)

				Value	Limit	Result
				-42.79 dBc	≤ -20 dBc	Pass



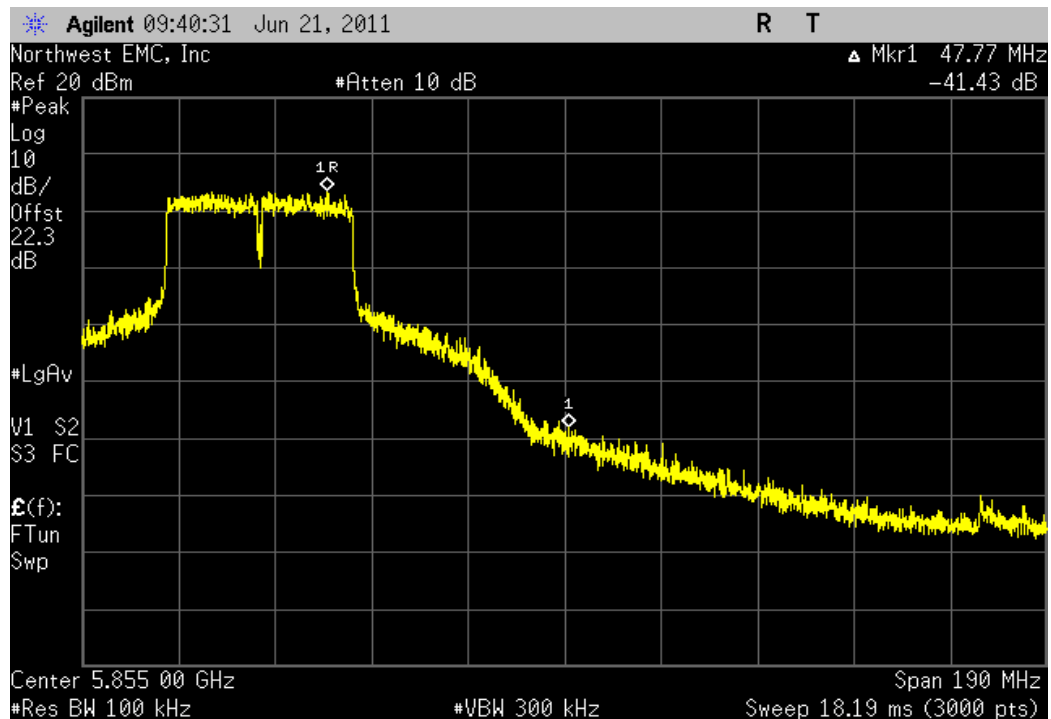
802.11(n) (40 MHz) MCS8, Low Channel 151 (5755 MHz)

	Value	Limit	Result
	-21.12 dBc	≤ -20 dBc	Pass



802.11(n) (40 MHz) MCS8, High Channel 159 (5795 MHz)

	Value	Limit	Result
	-41.43 dBc	≤ -20 dBc	Pass



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

TEST EQUIPMENT					
Description	Manufacturer	Model	ID	Last Cal.	Interval
Power Sensor	Agilent	E4412A	SQE	4/21/2010	24
Power Meter	Hewlett Packard	E4418A	SPA	4/21/2010	24
Signal Generator	Agilent	E8257D	TGU	1/26/2011	12
Spectrum Analyzer	Agilent	E4440A	AFG	4/28/2011	12

MEASUREMENT UNCERTAINTY

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 for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

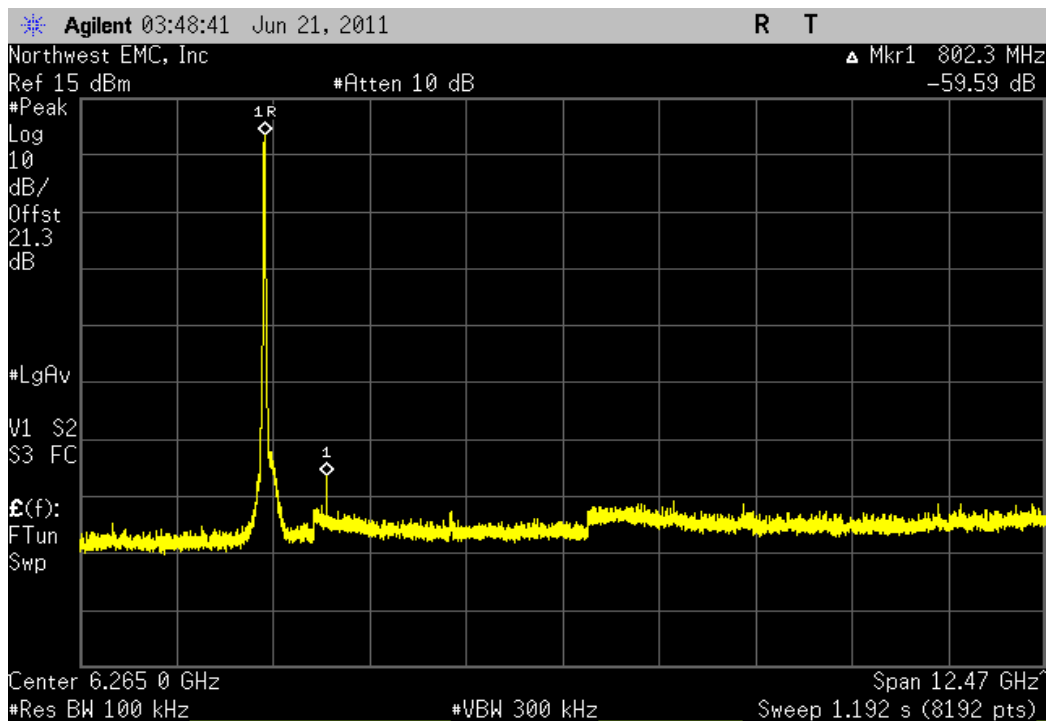
TEST DESCRIPTION

The spurious RF conducted emissions were measured with the EUT set to low, medium, and high transmit frequencies. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum data rate using direct sequence modulation. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

NORTHWEST		Spurious Conducted Emissions		XMit 2011.04.20 PsaTx 2011.05.03	
EMC		EUT: WMIA-199NI		Work Order: PROS0109	
Serial Number: 09435H1000039		Date: 07/08/11			
Customer: ProSoft Technology, Inc.		Temperature: 22.06°C			
Attendees: None		Humidity: 48%			
Project: None		Barometric Pres.: 1011			
Tested by: Jaemi Suh		Power: 120V/60Hz		Job Site: OC11	
TEST SPECIFICATIONS		TEST METHOD			
FCC 15.247:2011		ANSI C63.10:2009			
COMMENTS					
Chain 1. Operating at 802.11a/g/n. PC Power Level = 15.					
DEVIATIONS FROM TEST STANDARD					
Configuration #	1	<i>Signature</i> 			
		Frequency Range	Value	Limit	Result
802.11(g) 6 Mbps					
		Low Channel 1 (2412 MHz)	30 MHz - 12.5 GHz	-59.59 dBc	≤ -20 dBc Pass
		Low Channel 1 (2412 MHz)	12.5 GHz - 25 GHz	-49.87 dBc	≤ -20 dBc Pass
		Mid Channel 6 (2437 MHz)	30 MHz - 12.5 GHz	-59.48 dBc	≤ -20 dBc Pass
		Mid Channel 6 (2437 MHz)	12.5 GHz - 25 GHz	-57.75 dBc	≤ -20 dBc Pass
		High Channel 11 (2462 MHz)	30 MHz - 12.5 GHz	-60.25 dBc	≤ -20 dBc Pass
		High Channel 11 (2462 MHz)	12.5 GHz - 25 GHz	-58.27 dBc	≤ -20 dBc Pass
802.11(n) MCS8					
		Low Channel 1 (2412 MHz)	30 MHz - 12.5 GHz	-56.82 dBc	≤ -20 dBc Pass
		Low Channel 1 (2412 MHz)	12.5 GHz - 25 GHz	-55.62 dBc	≤ -20 dBc Pass
		Mid Channel 6 (2437 MHz)	30 MHz - 12.5 GHz	-58.19 dBc	≤ -20 dBc Pass
		Mid Channel 6 (2437 MHz)	12.5 GHz - 25 GHz	-56.32 dBc	≤ -20 dBc Pass
		High Channel 11 (2462 MHz)	30 MHz - 12.5 GHz	-59.37 dBc	≤ -20 dBc Pass
		High Channel 11 (2462 MHz)	12.5 GHz - 25 GHz	-55.82 dBc	≤ -20 dBc Pass
802.11(n)(40 MHz) MCS8					
		Low Channel 1 (2422 MHz)	30 MHz - 12.5 GHz	-56.82 dBc	≤ -20 dBc Pass
		Low Channel 1 (2422 MHz)	12.5 GHz - 25 GHz	-55.62 dBc	≤ -20 dBc Pass
		Mid Channel 6 (2437 MHz)	30 MHz - 12.5 GHz	-58.19 dBc	≤ -20 dBc Pass
		Mid Channel 6 (2437 MHz)	12.5 GHz - 25 GHz	-56.32 dBc	≤ -20 dBc Pass
		High Channel 11 (2452 MHz)	30 MHz - 12.5 GHz	-59.37 dBc	≤ -20 dBc Pass
		High Channel 11 (2452 MHz)	12.5 GHz - 25 GHz	-55.82 dBc	≤ -20 dBc Pass
802.11(a) 54 Mbps					
		Low Channel 149 (5745 MHz)	30 MHz - 12.5 GHz	-54.79 dBc	≤ -20 dBc Pass
		Low Channel 149 (5745 MHz)	12.5 GHz - 25 GHz	-57.09 dBc	≤ -20 dBc Pass
		Low Channel 149 (5745 MHz)	25 GHz - 40 GHz	-52.75 dBc	≤ -20 dBc Pass
		Mid Channel 157 (5785 MHz)	30 MHz - 12.5 GHz	-54.56 dBc	≤ -20 dBc Pass
		Mid Channel 157 (5785 MHz)	12.5 GHz - 25 GHz	-58.14 dBc	≤ -20 dBc Pass
		Mid Channel 157 (5785 MHz)	25 GHz - 40 GHz	-55.74 dBc	≤ -20 dBc Pass
		High Channel 165 (5825 MHz)	30 MHz - 12.5 GHz	-51.95 dBc	≤ -20 dBc Pass
		High Channel 165 (5825 MHz)	12.5 GHz - 25 GHz	-57.11 dBc	≤ -20 dBc Pass
		High Channel 165 (5825 MHz)	25 GHz - 40 GHz	-56.91 dBc	≤ -20 dBc Pass
802.11(n) MCS8					
		Low Channel 149 (5745 MHz)	30 MHz - 12.5 GHz	-54 dBc	≤ -20 dBc Pass
		Low Channel 149 (5745 MHz)	12.5 GHz - 25 GHz	-57.48 dBc	≤ -20 dBc Pass
		Low Channel 149 (5745 MHz)	25 GHz - 40 GHz	-57.21 dBc	≤ -20 dBc Pass
		Mid Channel 157 (5785 MHz)	30 MHz - 12.5 GHz	-53.15 dBc	≤ -20 dBc Pass
		Mid Channel 157 (5785 MHz)	12.5 GHz - 25 GHz	-57.2 dBc	≤ -20 dBc Pass
		Mid Channel 157 (5785 MHz)	25 GHz - 40 GHz	-54.55 dBc	≤ -20 dBc Pass
		High Channel 165 (5825 MHz)	30 MHz - 12.5 GHz	-53.01 dBc	≤ -20 dBc Pass
		High Channel 165 (5825 MHz)	12.5 GHz - 25 GHz	-57.46 dBc	≤ -20 dBc Pass
		High Channel 165 (5825 MHz)	25 GHz - 40 GHz	-56.02 dBc	≤ -20 dBc Pass
802.11(n)(40 MHz) MCS7					
		Low Channel 149 (5755 MHz)	30 MHz - 12.5 GHz	-50.65 dBc	≤ -20 dBc Pass
		Low Channel 149 (5755 MHz)	12.5 GHz - 25 GHz	-71.74 dBc	≤ -20 dBc Pass
		Low Channel 149 (5755 MHz)	25 GHz - 40 GHz	-52.25 dBc	≤ -20 dBc Pass
		High Channel 165 (5795 MHz)	30 MHz - 12.5 GHz	-49.41 dBc	≤ -20 dBc Pass
		High Channel 165 (5795 MHz)	12.5 GHz - 25 GHz	-54.72 dBc	≤ -20 dBc Pass
		High Channel 165 (5795 MHz)	25 GHz - 40 GHz	-53.52 dBc	≤ -20 dBc Pass

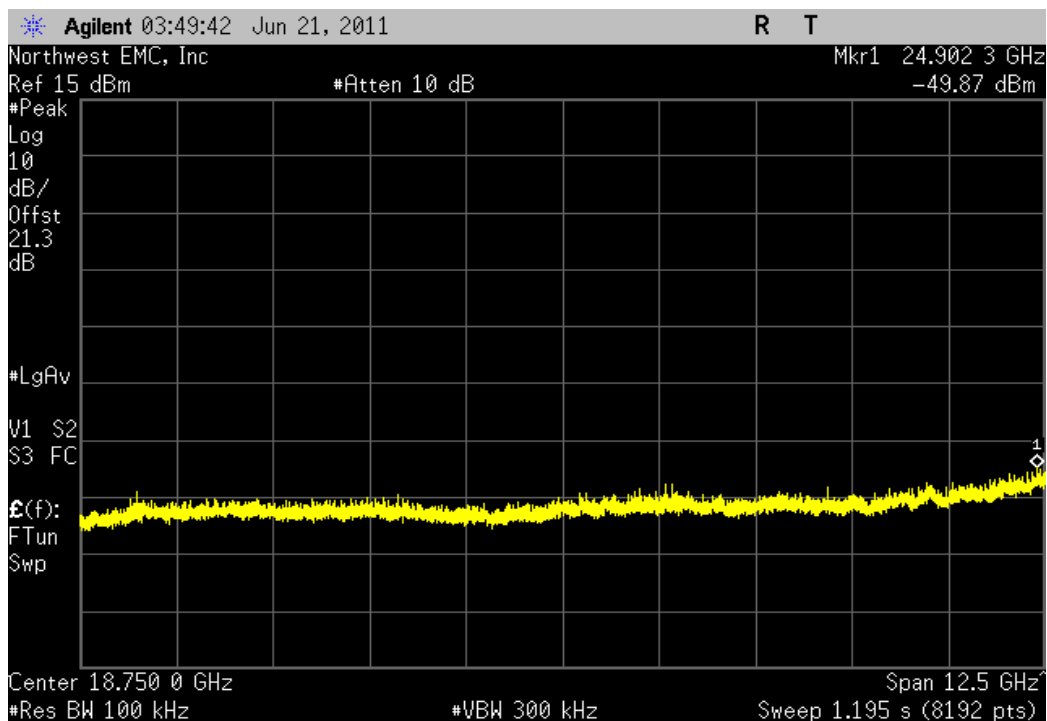
802.11(g) 6 Mbps, Low Channel 1 (2412 MHz)

Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-59.59 dBc	≤ -20 dBc	Pass



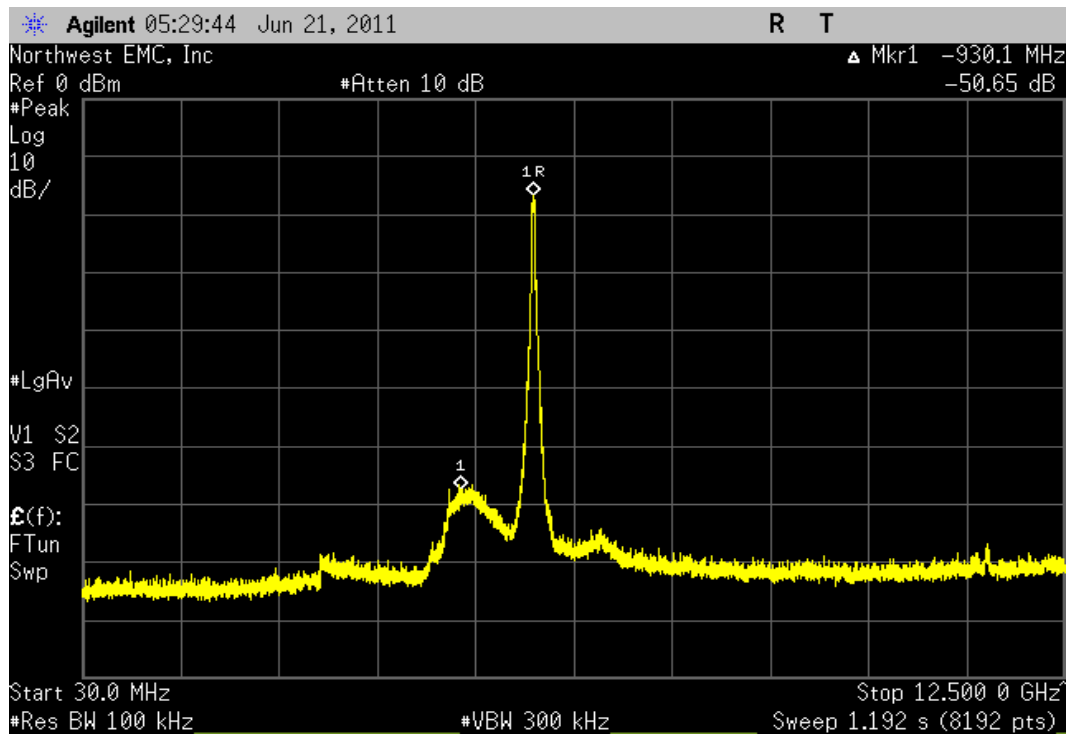
802.11(g) 6 Mbps, Low Channel 1 (2412 MHz)

Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-49.87 dBc	≤ -20 dBc	Pass



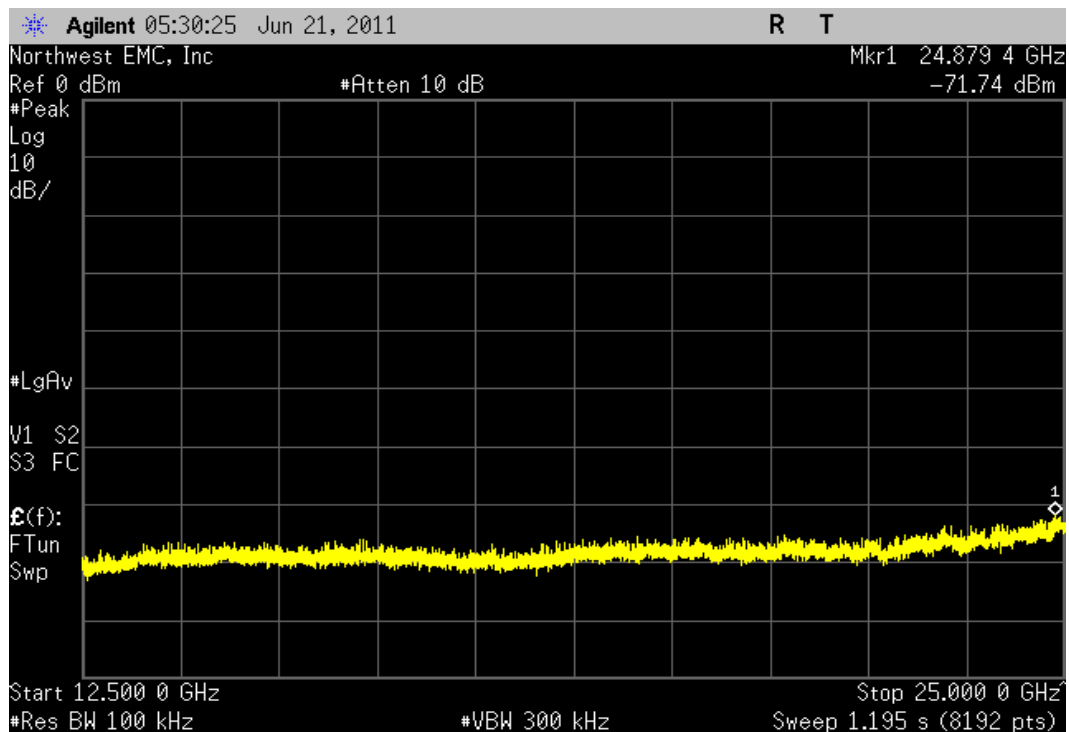
802.11(n)(40 MHz) MCS8, Low Channel 151 (5755 MHz)

Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-50.65 dBc	≤ -20 dBc	Pass



802.11(n)(40 MHz) MCS8, Low Channel 151 (5755 MHz)

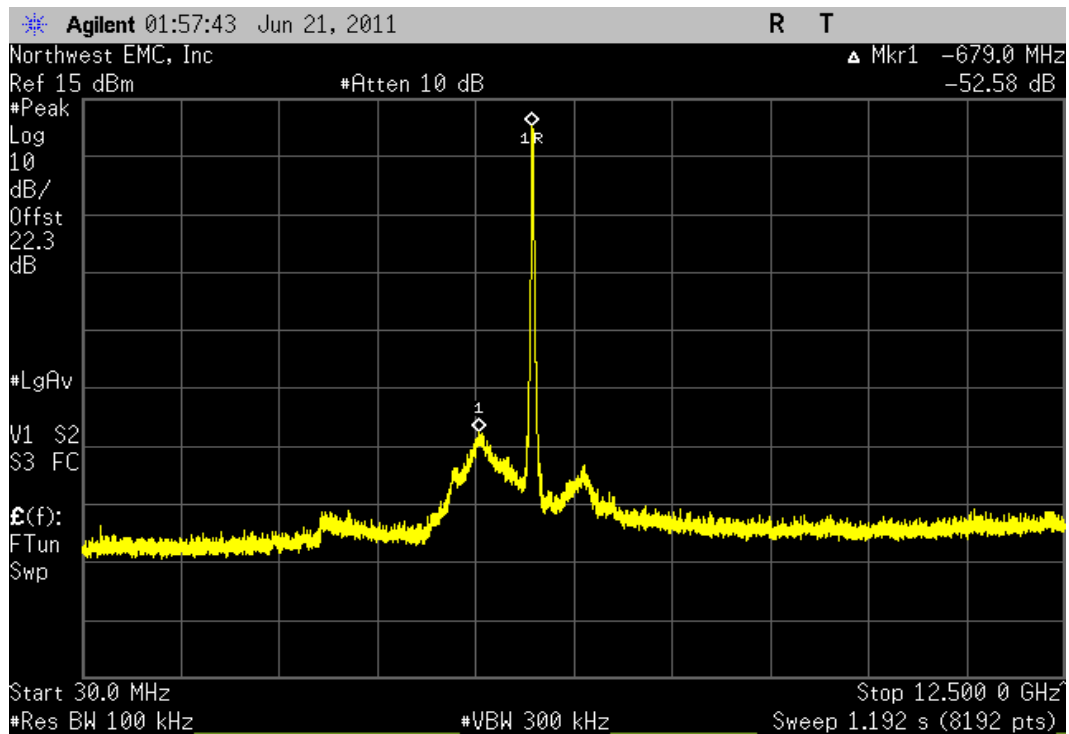
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-71.74 dBc	≤ -20 dBc	Pass



NORTHWEST		EMC		Spurious Conducted Emissions		XMit 2011.04.20 PsaTx 2011.05.03	
EUT: WMIA-199NI				Work Order: PROS0109			
Serial Number: 09435H1000039				Date: 07/08/11			
Customer: ProSoft Technology, Inc.				Temperature: 22.06°C			
Attendees: None				Humidity: 48%			
Project: None				Barometric Pres.: 1011			
Tested by: Jaemi Suh		Power: 120V/60Hz		Job Site: OC11			
TEST SPECIFICATIONS				TEST METHOD			
FCC 15.247:2011				ANSI C63.10:2009			
COMMENTS							
Chain 2. Operating at 802.11a/g/n. PC Power Level = 15.							
DEVIATIONS FROM TEST STANDARD							
Configuration #	1	Signature 					
		Frequency Range	Value	Limit	Result		
802.11(g) 54 Mbps							
Low Channel 1 (2412 MHz)		30 MHz - 12.5 GHz	-63.8 dBc	≤ -20 dBc	Pass		
Low Channel 1 (2412 MHz)		12.5 GHz - 25 GHz	-58.71 dBc	≤ -20 dBc	Pass		
Mid Channel 6 (2437 MHz)		30 MHz - 12.5 GHz	-65.39 dBc	≤ -20 dBc	Pass		
Mid Channel 6 (2437 MHz)		12.5 GHz - 25 GHz	-57.54 dBc	≤ -20 dBc	Pass		
High Channel 11 (2462 MHz)		30 MHz - 12.5 GHz	-64.82 dBc	≤ -20 dBc	Pass		
High Channel 11 (2462 MHz)		12.5 GHz - 25 GHz	-57.21 dBc	≤ -20 dBc	Pass		
802.11(n) MCS15							
Low Channel 1 (2412 MHz)		30 MHz - 12.5 GHz	-56.82 dBc	≤ -20 dBc	Pass		
Low Channel 1 (2412 MHz)		12.5 GHz - 25 GHz	-58.6 dBc	≤ -20 dBc	Pass		
Mid Channel 6 (2437 MHz)		30 MHz - 12.5 GHz	-63.16 dBc	≤ -20 dBc	Pass		
Mid Channel 6 (2437 MHz)		12.5 GHz - 25 GHz	-56.38 dBc	≤ -20 dBc	Pass		
High Channel 11 (2462 MHz)		30 MHz - 12.5 GHz	-65.16 dBc	≤ -20 dBc	Pass		
High Channel 11 (2462 MHz)		12.5 GHz - 25 GHz	-58.88 dBc	≤ -20 dBc	Pass		
802.11(n)(40 MHz) MCS15							
Low Channel 1 (2422 MHz)		30 MHz - 12.5 GHz	-62.54 dBc	≤ -20 dBc	Pass		
Low Channel 1 (2422 MHz)		12.5 GHz - 25 GHz	-56.15 dBc	≤ -20 dBc	Pass		
Mid Channel 6 (2437 MHz)		30 MHz - 12.5 GHz	-62.33 dBc	≤ -20 dBc	Pass		
Mid Channel 6 (2437 MHz)		12.5 GHz - 25 GHz	-55.74 dBc	≤ -20 dBc	Pass		
High Channel 11 (2452 MHz)		30 MHz - 12.5 GHz	-61.41 dBc	≤ -20 dBc	Pass		
High Channel 11 (2452 MHz)		12.5 GHz - 25 GHz	-54.84 dBc	≤ -20 dBc	Pass		
802.11(a) 6 Mbps							
Low Channel 149 (5745 MHz)		30 MHz - 12.5 GHz	-52.58 dBc	≤ -20 dBc	Pass		
Low Channel 149 (5745 MHz)		12.5 GHz - 25 GHz	-49.18 dBc	≤ -20 dBc	Pass		
Low Channel 149 (5745 MHz)		25 GHz - 40 GHz	-52.55 dBc	≤ -20 dBc	Pass		
Mid Channel 157 (5785 MHz)		30 MHz - 12.5 GHz	-51.08 dBc	≤ -20 dBc	Pass		
Mid Channel 157 (5785 MHz)		12.5 GHz - 25 GHz	-60.18 dBc	≤ -20 dBc	Pass		
Mid Channel 157 (5785 MHz)		25 GHz - 40 GHz	-54.24 dBc	≤ -20 dBc	Pass		
High Channel 165 (5825 MHz)		30 MHz - 12.5 GHz	-46.87 dBc	≤ -20 dBc	Pass		
High Channel 165 (5825 MHz)		12.5 GHz - 25 GHz	-58.04 dBc	≤ -20 dBc	Pass		
High Channel 165 (5825 MHz)		25 GHz - 40 GHz	-57.12 dBc	≤ -20 dBc	Pass		
802.11(n) MCS15							
Low Channel 149 (5745 MHz)		30 MHz - 12.5 GHz	-52.84 dBc	≤ -20 dBc	Pass		
Low Channel 149 (5745 MHz)		12.5 GHz - 25 GHz	-56.99 dBc	≤ -20 dBc	Pass		
Low Channel 149 (5745 MHz)		25 GHz - 40 GHz	-56.25 dBc	≤ -20 dBc	Pass		
Mid Channel 157 (5785 MHz)		30 MHz - 12.5 GHz	-49.34 dBc	≤ -20 dBc	Pass		
Mid Channel 157 (5785 MHz)		12.5 GHz - 25 GHz	-57.35 dBc	≤ -20 dBc	Pass		
Mid Channel 157 (5785 MHz)		25 GHz - 40 GHz	-56.1 dBc	≤ -20 dBc	Pass		
High Channel 165 (5825 MHz)		30 MHz - 12.5 GHz	-45.37 dBc	≤ -20 dBc	Pass		
High Channel 165 (5825 MHz)		12.5 GHz - 25 GHz	-56.09 dBc	≤ -20 dBc	Pass		
High Channel 165 (5825 MHz)		25 GHz - 40 GHz	-57.79 dBc	≤ -20 dBc	Pass		
802.11(n)(40 MHz) MCS8							
Low Channel 149 (5755 MHz)		30 MHz - 12.5 GHz	-45.51 dBc	≤ -20 dBc	Pass		
Low Channel 149 (5755 MHz)		12.5 GHz - 25 GHz	-54.39 dBc	≤ -20 dBc	Pass		
Low Channel 149 (5755 MHz)		25 GHz - 40 GHz	-55.75 dBc	≤ -20 dBc	Pass		
High Channel 165 (5795 MHz)		30 MHz - 12.5 GHz	-44.11 dBc	≤ -20 dBc	Pass		
High Channel 165 (5795 MHz)		12.5 GHz - 25 GHz	-53.78 dBc	≤ -20 dBc	Pass		
High Channel 165 (5795 MHz)		25 GHz - 40 GHz	-57.51 dBc	≤ -20 dBc	Pass		

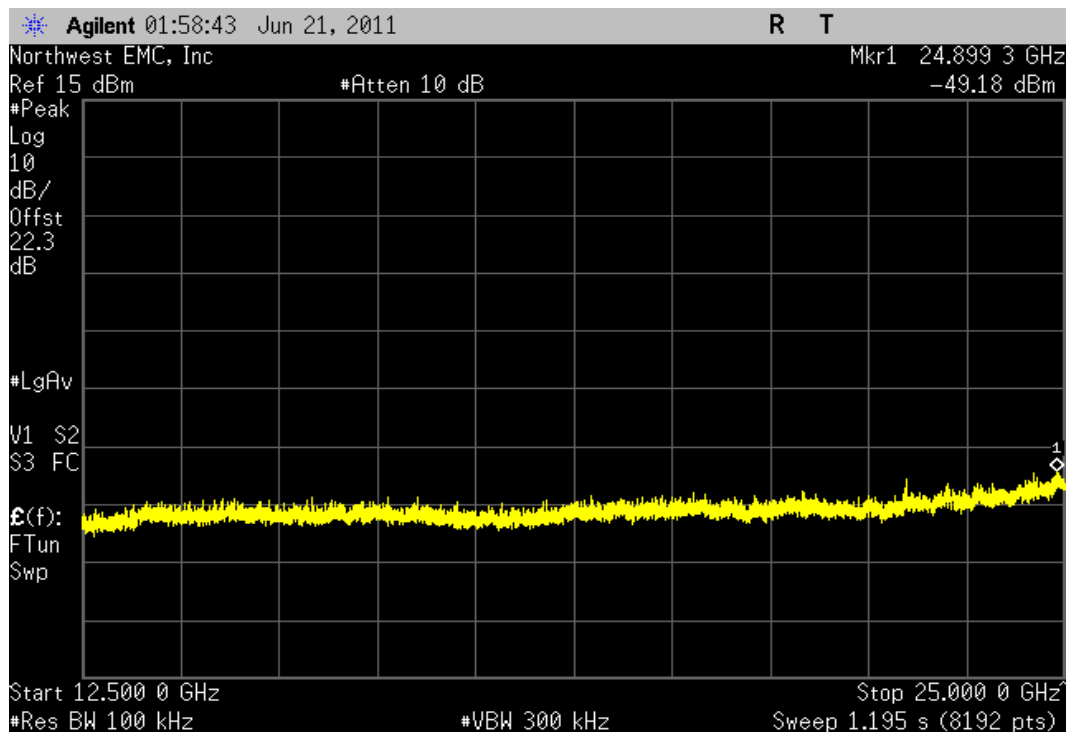
802.11(a) 6 Mbps, Low Channel 149 (5745 MHz)

Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-52.58 dBc	≤ -20 dBc	Pass



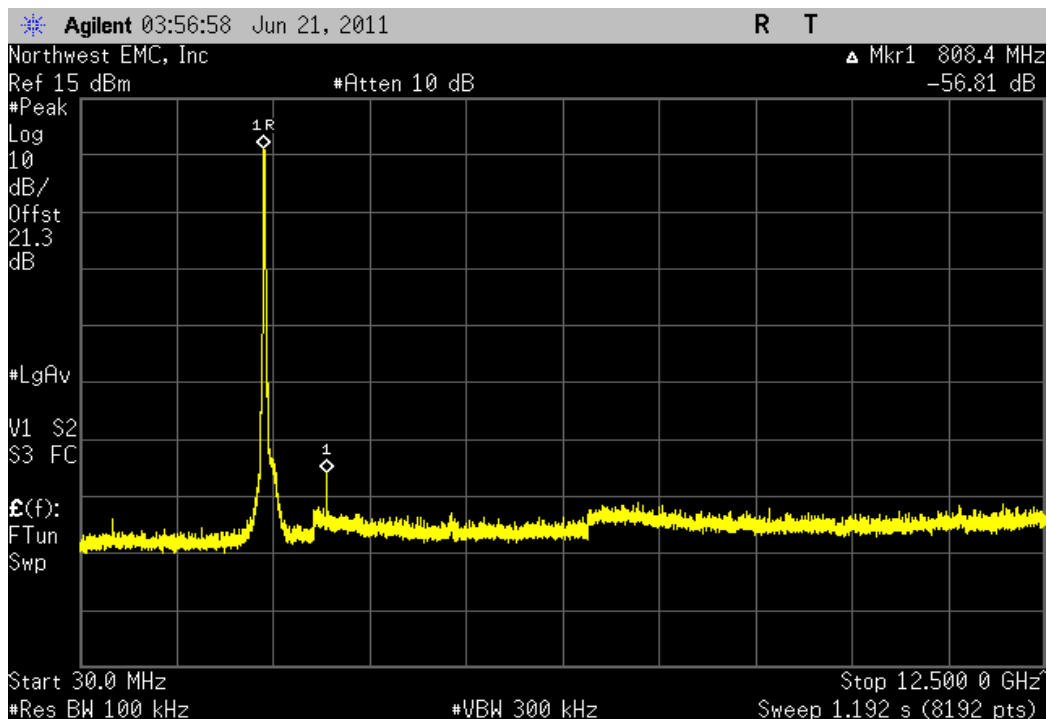
802.11(a) 6 Mbps, Low Channel 149 (5745 MHz)

Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-49.18 dBc	≤ -20 dBc	Pass



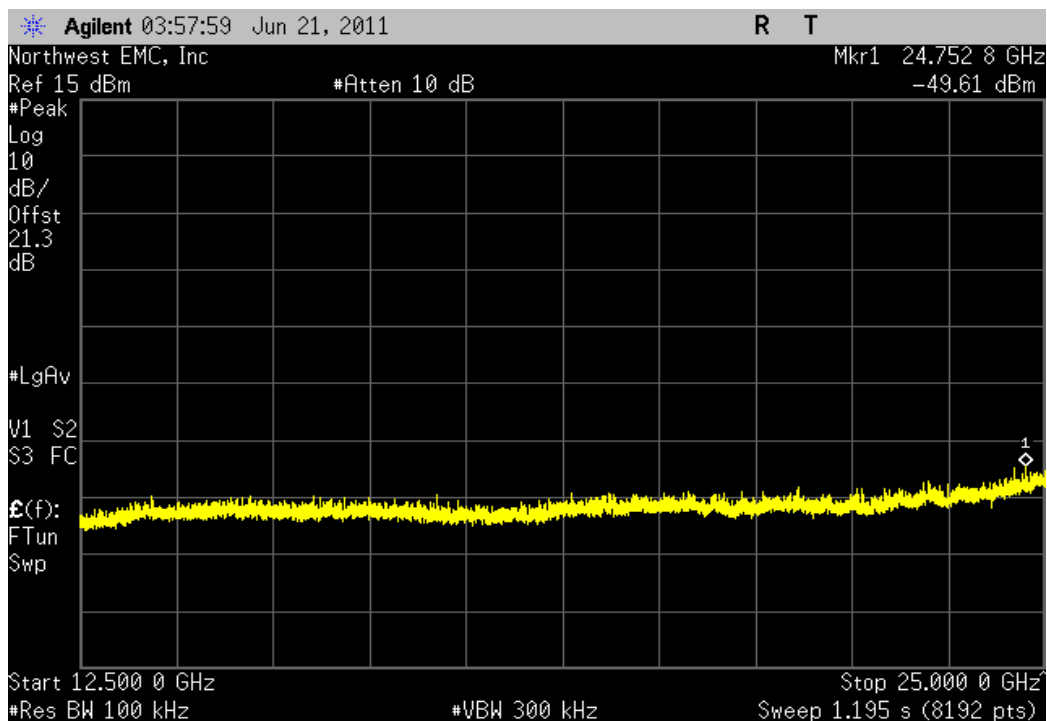
802.11(n) MCS15, Low Channel 1 (2412 MHz)

Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-56.82 dBc	≤ -20 dBc	Pass



802.11(n) MCS15, Low Channel 1 (2412 MHz)

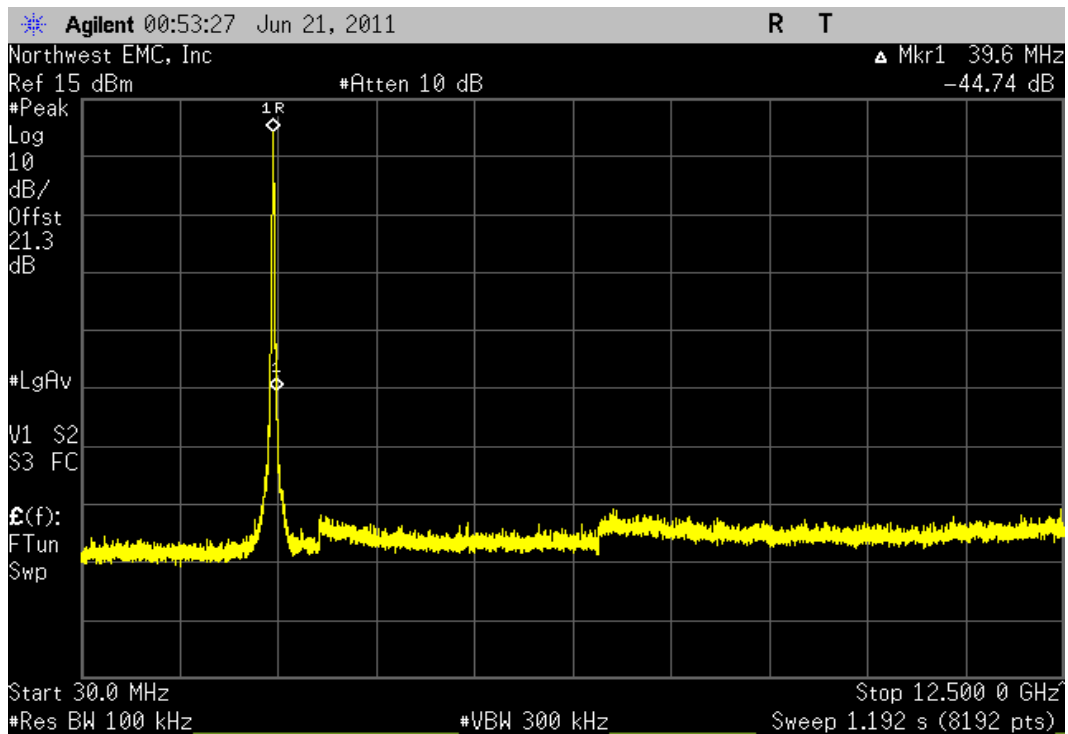
Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-49.61 dBc	≤ -20 dBc	Pass



NORTHWEST		Spurious Conducted Emissions		XMit 2011.04.20 PsaTx 2011.05.03	
EMC		EUT: WMIA-199NI		Work Order: PROS0109	
Serial Number: 09435H1000039		Date: 07/08/11			
Customer: ProSoft Technology, Inc.		Temperature: 22.06°C			
Attendees: None		Humidity: 48%			
Project: None		Barometric Pres.: 1011			
Tested by: Jaemi Suh		Power: 120V/60Hz		Job Site: OC11	
TEST SPECIFICATIONS		TEST METHOD			
FCC 15.247:2011		ANSI C63.10:2009			
COMMENTS					
Chain 3. Operating at 802.11a/g/n. PC Power Level = 15.					
DEVIATIONS FROM TEST STANDARD					
Configuration #	1	<i>Signature</i> 			
		Frequency Range	Value	Limit	Result
802.11(g) 54 Mbps					
		Low Channel 1 (2412 MHz)	30 MHz - 12.5 GHz	-53.64 dBc	≤ -20 dBc Pass
		Low Channel 1 (2412 MHz)	12.5 GHz - 25 GHz	-60.82 dBc	≤ -20 dBc Pass
		Mid Channel 6 (2437 MHz)	30 MHz - 12.5 GHz	-59.82 dBc	≤ -20 dBc Pass
		Mid Channel 6 (2437 MHz)	12.5 GHz - 25 GHz	-60.42 dBc	≤ -20 dBc Pass
		High Channel 11 (2462 MHz)	30 MHz - 12.5 GHz	-45.7 dBc	≤ -20 dBc Pass
		High Channel 11 (2462 MHz)	12.5 GHz - 25 GHz	-60.66 dBc	≤ -20 dBc Pass
802.11(n) MCS7					
		Low Channel 1 (2412 MHz)	30 MHz - 12.5 GHz	-54.8 dBc	≤ -20 dBc Pass
		Low Channel 1 (2412 MHz)	12.5 GHz - 25 GHz	-58.33 dBc	≤ -20 dBc Pass
		Mid Channel 6 (2437 MHz)	30 MHz - 12.5 GHz	-56.96 dBc	≤ -20 dBc Pass
		Mid Channel 6 (2437 MHz)	12.5 GHz - 25 GHz	-58.77 dBc	≤ -20 dBc Pass
		High Channel 11 (2462 MHz)	30 MHz - 12.5 GHz	-44.74 dBc	≤ -20 dBc Pass
		High Channel 11 (2462 MHz)	12.5 GHz - 25 GHz	-50.24 dBc	≤ -20 dBc Pass
802.11(n)(40 MHz) MCS15					
		Low Channel 1 (2422 MHz)	30 MHz - 12.5 GHz	-51.4 dBc	≤ -20 dBc Pass
		Low Channel 1 (2422 MHz)	12.5 GHz - 25 GHz	-57.98 dBc	≤ -20 dBc Pass
		Mid Channel 6 (2437 MHz)	30 MHz - 12.5 GHz	-39.81 dBc	≤ -20 dBc Pass
		Mid Channel 6 (2437 MHz)	12.5 GHz - 25 GHz	-58.87 dBc	≤ -20 dBc Pass
		High Channel 11 (2452 MHz)	30 MHz - 12.5 GHz	-28.18 dBc	≤ -20 dBc Pass
		High Channel 11 (2452 MHz)	12.5 GHz - 25 GHz	-57.47 dBc	≤ -20 dBc Pass
802.11(a) 54 Mbps					
		Low Channel 149 (5745 MHz)	30 MHz - 12.5 GHz	-47.54 dBc	≤ -20 dBc Pass
		Low Channel 149 (5745 MHz)	12.5 GHz - 25 GHz	-56.13 dBc	≤ -20 dBc Pass
		Low Channel 149 (5745 MHz)	25 GHz - 40 GHz	-56.55 dBc	≤ -20 dBc Pass
		Mid Channel 157 (5785 MHz)	30 MHz - 12.5 GHz	-47.59 dBc	≤ -20 dBc Pass
		Mid Channel 157 (5785 MHz)	12.5 GHz - 25 GHz	-55.6 dBc	≤ -20 dBc Pass
		Mid Channel 157 (5785 MHz)	25 GHz - 40 GHz	-56.33 dBc	≤ -20 dBc Pass
		High Channel 165 (5825 MHz)	30 MHz - 12.5 GHz	-47.4 dBc	≤ -20 dBc Pass
		High Channel 165 (5825 MHz)	12.5 GHz - 25 GHz	-56.42 dBc	≤ -20 dBc Pass
		High Channel 165 (5825 MHz)	25 GHz - 40 GHz	-55.82 dBc	≤ -20 dBc Pass
802.11(n) MCS7					
		Low Channel 149 (5745 MHz)	30 MHz - 12.5 GHz	-47.53 dBc	≤ -20 dBc Pass
		Low Channel 149 (5745 MHz)	12.5 GHz - 25 GHz	-49.32 dBc	≤ -20 dBc Pass
		Low Channel 149 (5745 MHz)	25 GHz - 40 GHz	-56.25 dBc	≤ -20 dBc Pass
		Mid Channel 157 (5785 MHz)	30 MHz - 12.5 GHz	-46.6 dBc	≤ -20 dBc Pass
		Mid Channel 157 (5785 MHz)	12.5 GHz - 25 GHz	-56.08 dBc	≤ -20 dBc Pass
		Mid Channel 157 (5785 MHz)	25 GHz - 40 GHz	-56.1 dBc	≤ -20 dBc Pass
		High Channel 165 (5825 MHz)	30 MHz - 12.5 GHz	-47.56 dBc	≤ -20 dBc Pass
		High Channel 165 (5825 MHz)	12.5 GHz - 25 GHz	-55.49 dBc	≤ -20 dBc Pass
		High Channel 165 (5825 MHz)	25 GHz - 40 GHz	-55.52 dBc	≤ -20 dBc Pass
802.11(n)(40 MHz) MCS0					
		Low Channel 149 (5755 MHz)	30 MHz - 12.5 GHz	-43.22 dBc	≤ -20 dBc Pass
		Low Channel 149 (5755 MHz)	12.5 GHz - 25 GHz	-51.98 dBc	≤ -20 dBc Pass
		Low Channel 149 (5755 MHz)	25 GHz - 40 GHz	-56.25 dBc	≤ -20 dBc Pass
		High Channel 165 (5795 MHz)	30 MHz - 12.5 GHz	-42.33 dBc	≤ -20 dBc Pass
		High Channel 165 (5795 MHz)	12.5 GHz - 25 GHz	-52.07 dBc	≤ -20 dBc Pass
		High Channel 165 (5795 MHz)	25 GHz - 40 GHz	-55.52 dBc	≤ -20 dBc Pass

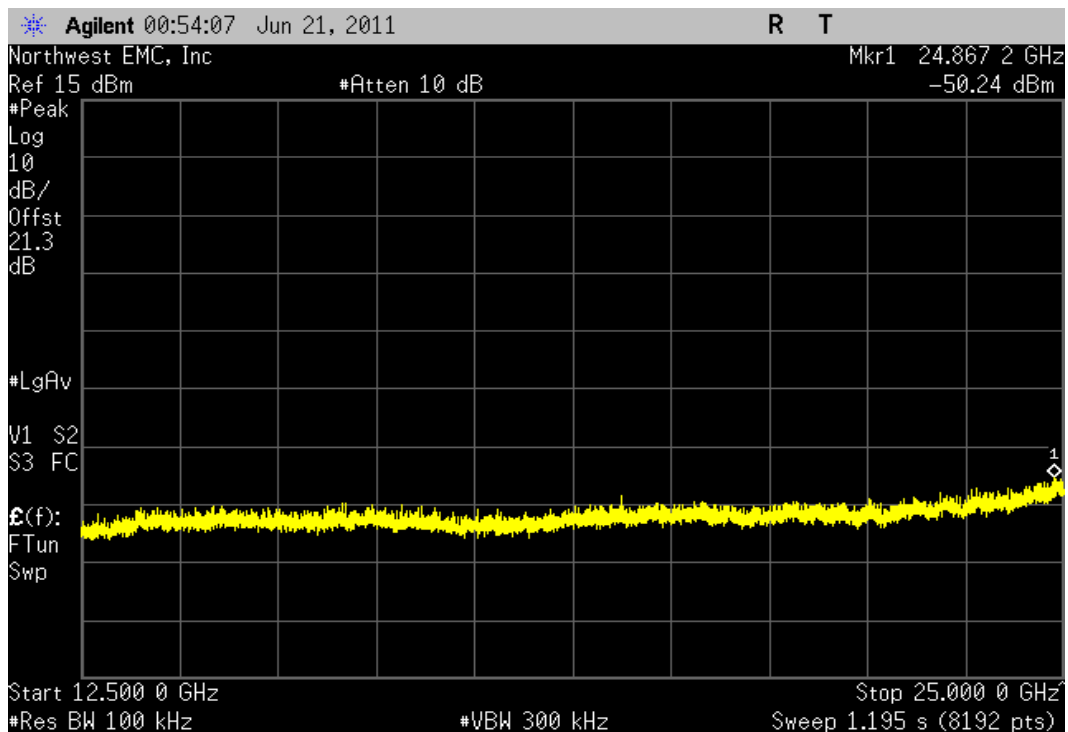
802.11(n) MCS7, High Channel 11 (2462 MHz)

Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-44.74 dBc	≤ -20 dBc	Pass



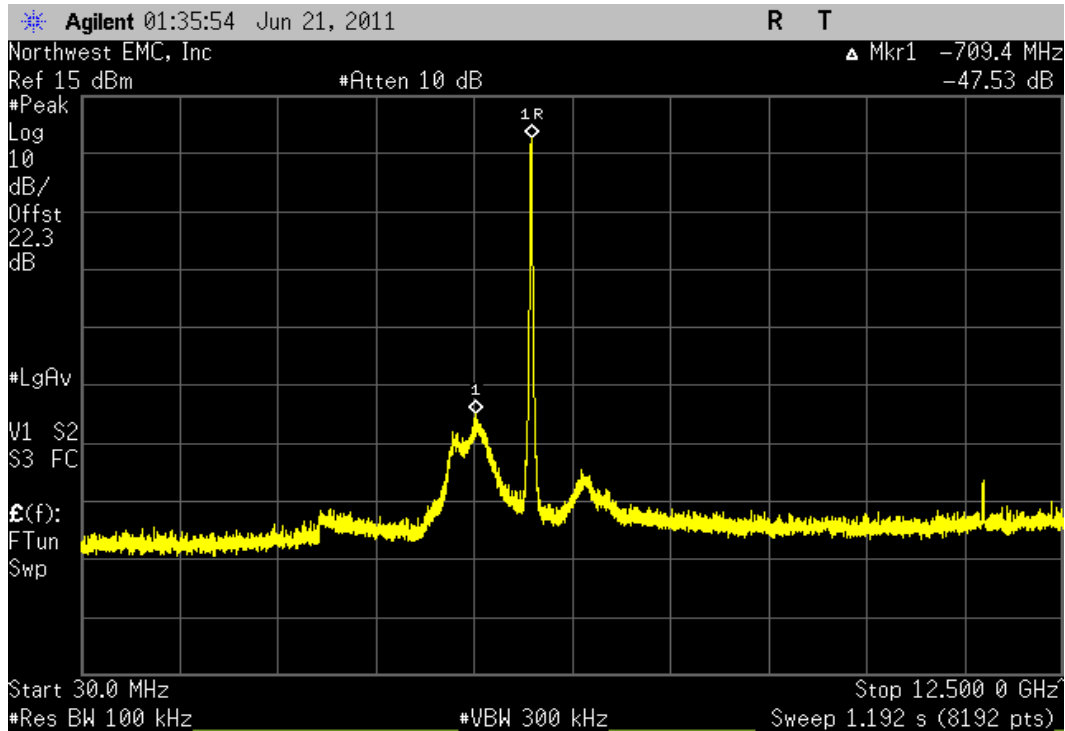
802.11(n) MCS7, High Channel 11 (2462 MHz)

Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-50.24 dBc	≤ -20 dBc	Pass



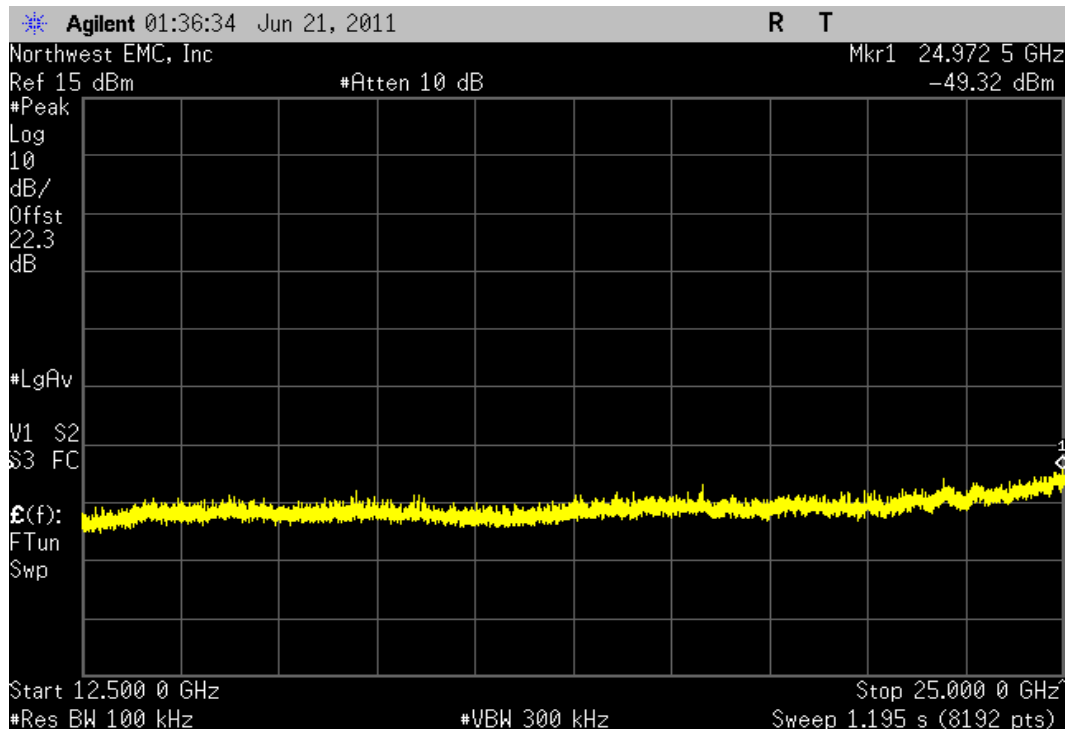
802.11(n) MCS7, Low Channel 149 (5745 MHz)

Frequency Range	Value	Limit	Result
30 MHz - 12.5 GHz	-47.53 dBc	≤ -20 dBc	Pass



802.11(n) MCS7, Low Channel 149 (5745 MHz)

Frequency Range	Value	Limit	Result
12.5 GHz - 25 GHz	-49.32 dBc	≤ -20 dBc	≤ -20 dBc



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
Power Sensor	Agilent	E4412A	SQE	4/21/2010	24
Power Meter	Hewlett Packard	E4418A	SPA	4/21/2010	24
Signal Generator	Agilent	E8257D	TGU	1/26/2011	12
Spectrum Analyzer	Agilent	E4440A	AFG	4/28/2011	12

MEASUREMENT UNCERTAINTY

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 for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

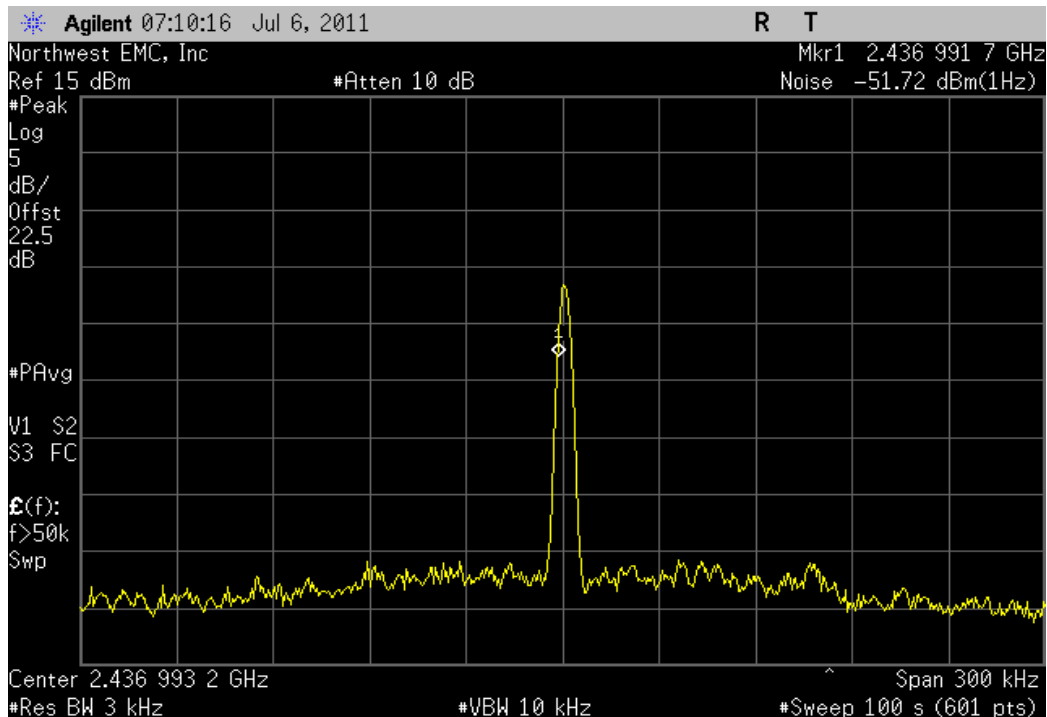
The peak output power was measured with the EUT set to low, medium, and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was transmitting at its maximum data rate and maximum output power.

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

NORTHWEST		Power Spectral Density		XMit 2011.04.20 PsaTx 2011.06.20	
EMC					
EUT: WMIA-199NI		Work Order: PROS0109			
Serial Number: 09435H1000039		Date: 07/07/11			
Customer: ProSoft Technology, Inc.		Temperature: 22.06°C			
Attendees: None		Humidity: 48%			
Project: None		Barometric Pres.: 1011			
Tested by: Jaemi Suh		Power: 120V/60Hz		Job Site: OC11	
TEST SPECIFICATIONS		TEST METHOD			
FCC 15.247:2011		ANSI C63.10:2009			
COMMENTS					
Chain 1. Operating at 802.11 a/g/n. PC Power Level = 15.					
DEVIATIONS FROM TEST STANDARD					
Configuration #	1	Signature 			
			Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
802.11(g) 6 Mbps					
	Low Channel 1 (2412 MHz)		-19.21	8	Pass
	Mid Channel 6 (2437 MHz)		-18.94	8	Pass
	High Channel 11 (2462 MHz)		-18.864	8	Pass
802.11(n) MCS8					
	Low Channel 1 (2412 MHz)		-18.223	8	Pass
	Mid Channel 6 (2437 MHz)		-17.984	8	Pass
	High Channel 11 (2462 MHz)		-18.242	8	Pass
802.11(n) MCS8(40 MHz)					
	Low Channel 1 (2422 MHz)		-17.641	8	Pass
	Mid Channel 6 (2437 MHz)		-16.924	8	Pass
	High Channel 11 (2452 MHz)		-22.775	8	Pass
	Low Channel 149 (5755 MHz)		-19.107	8	Pass
	High Channel 165 (5795 MHz)		-18.833	8	Pass
802.11(a) 54 Mbps					
	Low Channel 149 (5745 MHz)		-19.687	8	Pass
	Mid Channel 157 (5785 MHz)		-18.405	8	Pass
	High Channel 165 (5825 MHz)		-19.551	8	Pass
802.11(n) MCS8					
	Low Channel 149 (5745 MHz)		-20.255	8	Pass
	Mid Channel 157 (5785 MHz)		-21.593	8	Pass
	High Channel 165 (5825 MHz)		-21.763	8	Pass

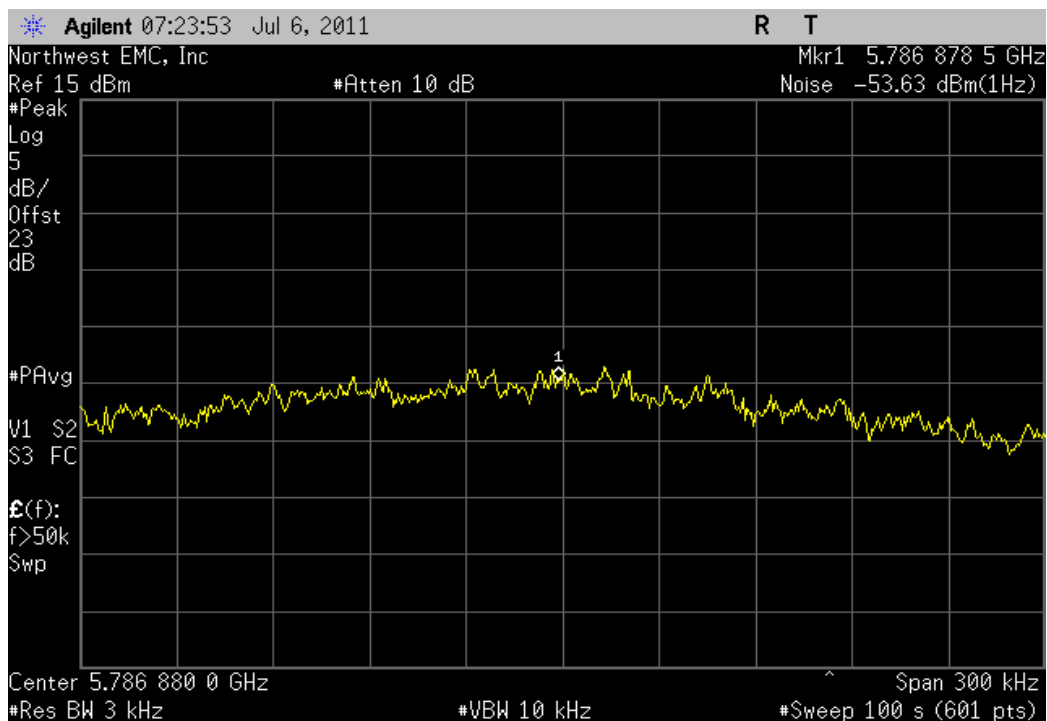
802.11(n) MCS0(40 MHz), Low Channel 1 (2422 MHz)

	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
	-16.924	8	Pass



802.11(a) 36 Mbps, Mid Channel 157 (5785 MHz)

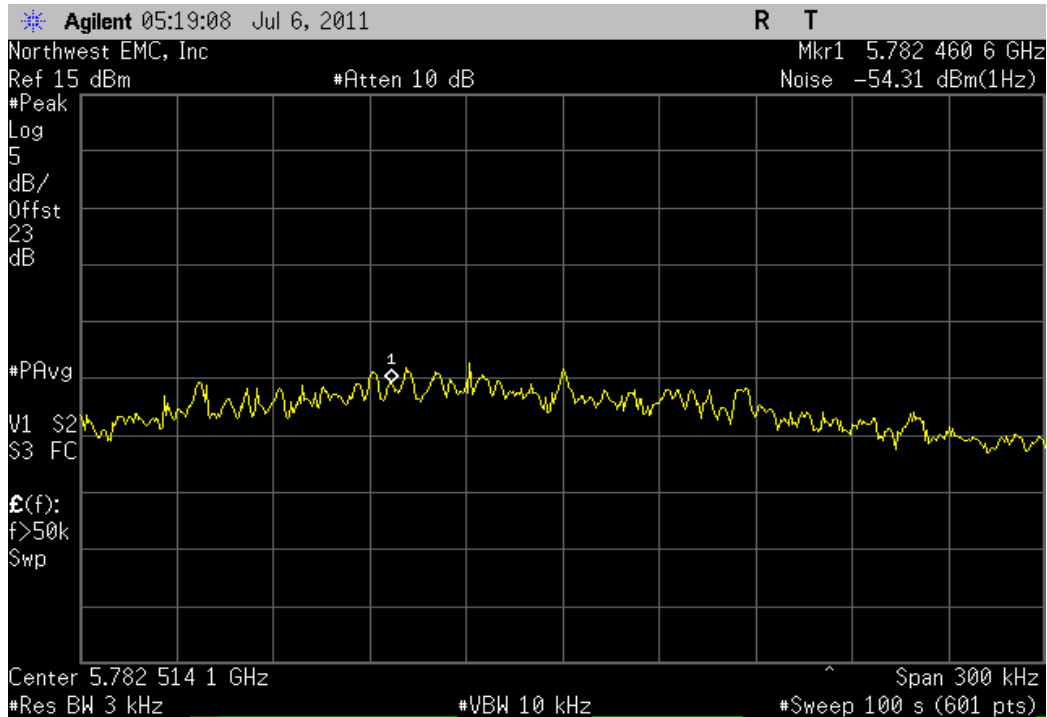
	Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
	-18.405	8	Pass



NORTHWEST		Power Spectral Density		XMit 2011.04.20 PsaTx 2011.06.20	
EMC					
EUT: WMIA-199NI		Work Order: PROS0109			
Serial Number: 09435H1000039		Date: 07/07/11			
Customer: ProSoft Technology, Inc.		Temperature: 22.06°C			
Attendees: None		Humidity: 48%			
Project: None		Barometric Pres.: 1011			
Tested by: Jaemi Suh		Power: 120V/60Hz		Job Site: OC11	
TEST SPECIFICATIONS		TEST METHOD			
FCC 15.247:2011		ANSI C63.10:2009			
COMMENTS					
Chain 2. Operating at 802.11 a/g/n. PC Power Level = 15.					
DEVIATIONS FROM TEST STANDARD					
Configuration #	1	Signature 			
			Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
802.11(g) 54 Mbps					
	Low Channel 1 (2412 MHz)		-20.992	8	Pass
	Mid Channel 6 (2437 MHz)		-22.05	8	Pass
	High Channel 11 (2462 MHz)		-21.975	8	Pass
802.11(n) MCS15					
	Low Channel 1 (2412 MHz)		-21.33	8	Pass
	Mid Channel 6 (2437 MHz)		-20.551	8	Pass
	High Channel 11 (2462 MHz)		-22.855	8	Pass
	Low Channel 149 (5745 MHz)		-24.915	8	Pass
	Mid Channel 157 (5785 MHz)		-24.667	8	Pass
	High Channel 165 (5825 MHz)		-24.614	8	Pass
802.11(n) MCS15(40 MHz)					
	Low Channel 1 (2422 MHz)		-19.956	8	Pass
	Mid Channel 6 (2437 MHz)		-19.507	8	Pass
	High Channel 11 (2452 MHz)		-19.615	8	Pass
802.11(a) 6 Mbps					
	Low Channel 149 (5745 MHz)		-19.782	8	Pass
	Mid Channel 157 (5785 MHz)		-19.331	8	Pass
	High Channel 165 (5825 MHz)		-19.287	8	Pass
802.11(n) MCS8(40 MHz)					
	Low Channel 149 (5755 MHz)		-22.733	8	Pass
	High Channel 165 (5795 MHz)		-21.215	8	Pass

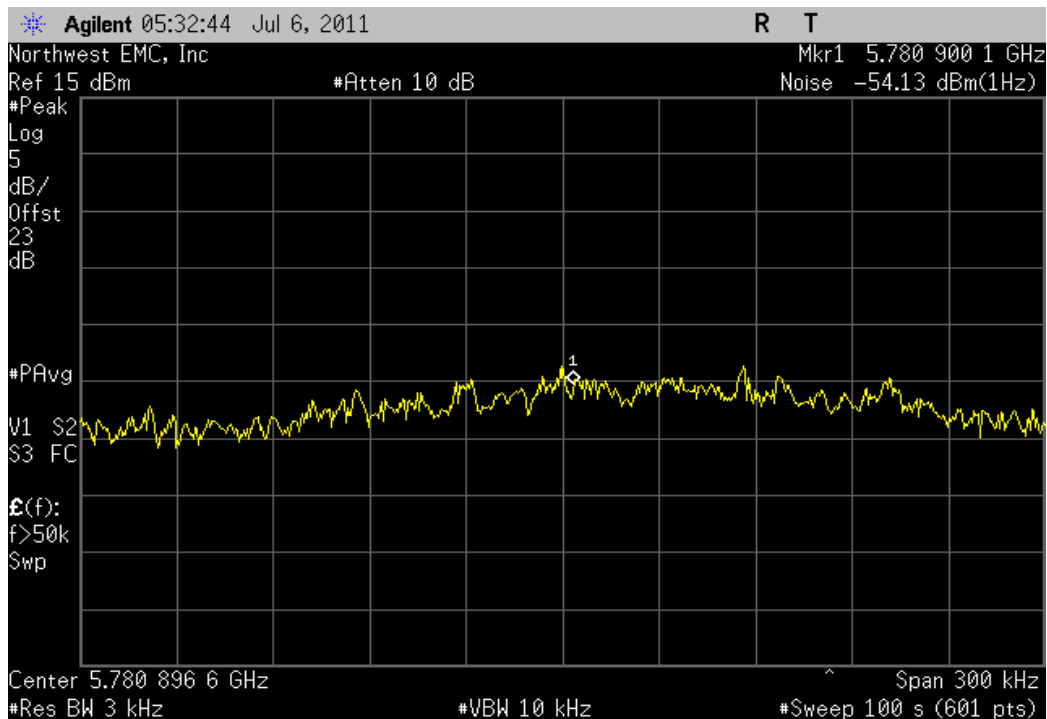
802.11(n) MCS8(40 MHz), Low Channel 1 (2422 MHz)

Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
-19.507	8	Pass



802.11(a) 6 Mbps, Mid Channel 157 (5785 MHz)

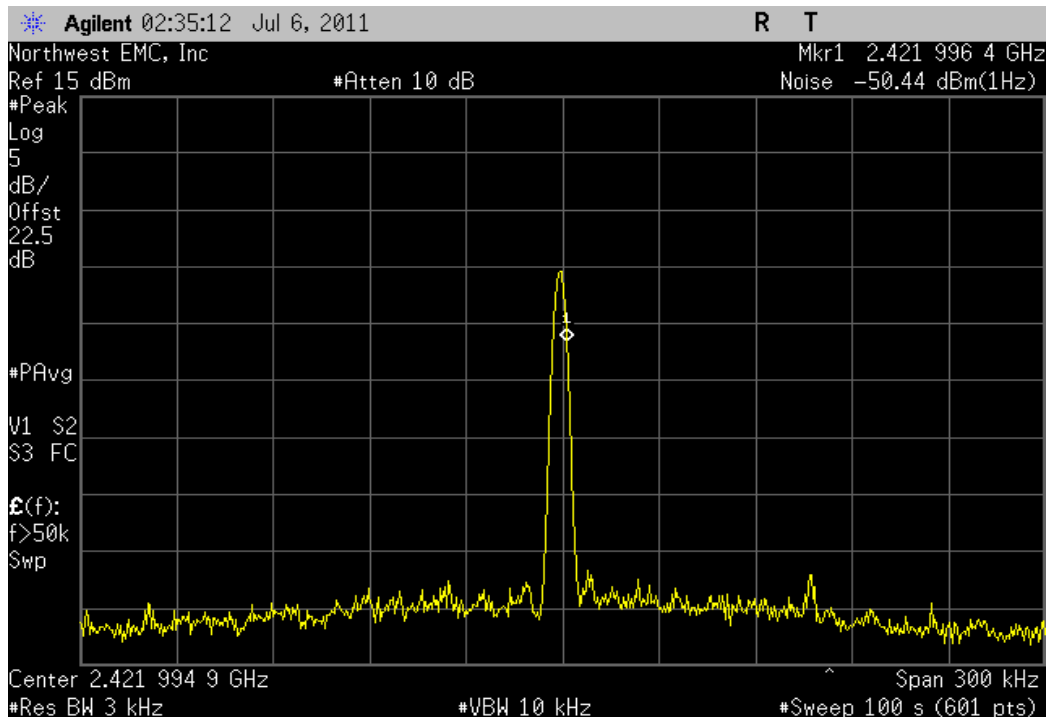
Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
-19.331	8	Pass



NORTHWEST		Power Spectral Density		XMit 2011.04.20 PsaTx 2011.06.20	
EMC					
EUT: WMIA-199NI		Work Order: PROS0109			
Serial Number: 09435H1000039		Date: 07/07/11			
Customer: ProSoft Technology, Inc.		Temperature: 22.06°C			
Attendees: None		Humidity: 48%			
Project: None		Barometric Pres.: 1011			
Tested by: Jaemi Suh		Power: 120V/60Hz		Job Site: OC11	
TEST SPECIFICATIONS		TEST METHOD			
FCC 15.247:2011		ANSI C63.10:2009			
COMMENTS					
Chain 3. Operating at 802.11 a/g/n. PC Power Level = 15.					
DEVIATIONS FROM TEST STANDARD					
Configuration #	1	Signature 			
			Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
802.11(g) 6 Mbps					
	Low Channel 1 (2412 MHz)		-20.753	8	Pass
	Mid Channel 6 (2437 MHz)		-21.553	8	Pass
	High Channel 11 (2462 MHz)		-20.746	8	Pass
802.11(n) MCS7(40 MHz)					
	Low Channel 1 (2412 MHz)		-14.393	8	Pass
	Mid Channel 6 (2437 MHz)		-21.771	8	Pass
	High Channel 11 (2462 MHz)		-20.773	8	Pass
802.11(n) MCS15(40 MHz)					
	Low Channel 1 (2422 MHz)		-15.644	8	Pass
	Mid Channel 6 (2437 MHz)		-24.723	8	Pass
	High Channel 11 (2452 MHz)		-23.989	8	Pass
	Low Channel 149 (5755 MHz)		-21.298	8	Pass
	High Channel 165 (5795 MHz)		-20.657	8	Pass
802.11(a) 54 Mbps					
	Low Channel 149 (5745 MHz)		-19.882	8	Pass
	Mid Channel 157 (5785 MHz)		-21.384	8	Pass
	High Channel 165 (5825 MHz)		-21.18	8	Pass
802.11(n) MCS7					
	Low Channel 149 (5745 MHz)		-20.12	8	Pass
	Mid Channel 157 (5785 MHz)		-24.573	8	Pass
	High Channel 165 (5825 MHz)		-23.457	8	Pass

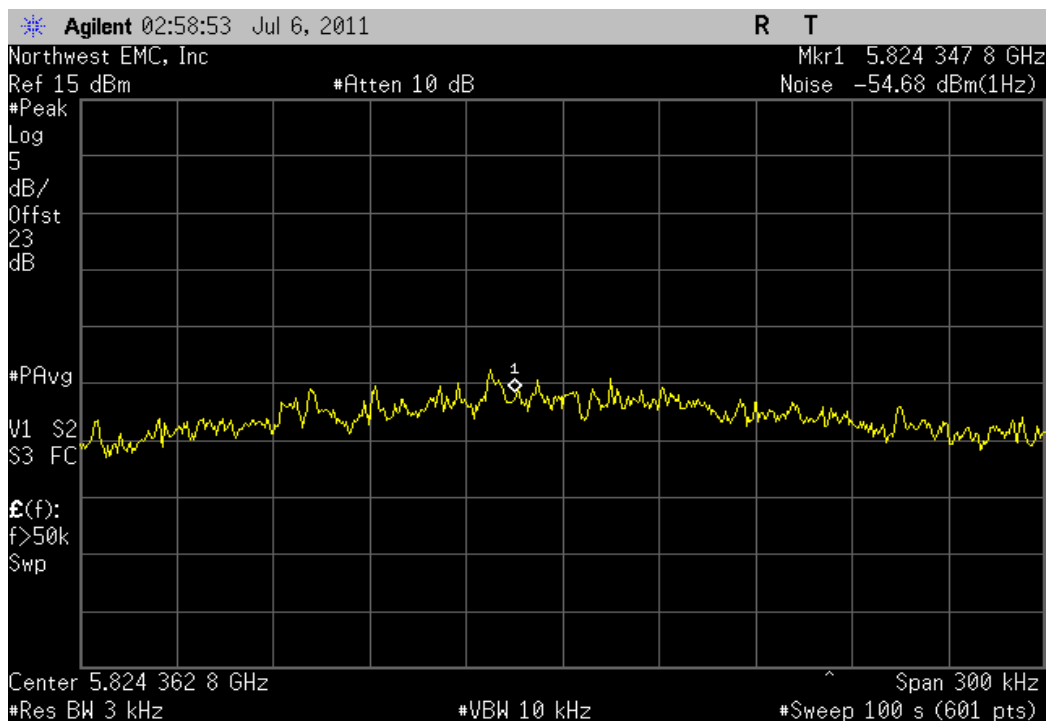
802.11(n) MCS7(40 MHz), Mid Channel 6 (2437 MHz)

Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
-15.644	8	Pass



802.11(a) 54 Mbps, Low Channel 149 (5745 MHz)

Value (dBm / 3 kHz)	Limit (dBm / 3 kHz)	Result
-19.882	8	Pass



Spurious Radiated Emissions

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

MODES OF OPERATION

Transmitting at 802.11(g)/(n) Channel 1
Transmitting at 802.11(g)/(n) Channel 6
Transmitting at 802.11(g)/(n) Channel 11
Transmitting at 802.11(a)/(n) Channel 149
Transmitting at 802.11(a)/(n) Channel 157
Transmitting at 802.11(a)/(n) Channel 165

CHANNEL BANDWIDTHS INVESTIGATED

20 MHz
40 MHz

MODES INVESTIGATED

6 Mbps, 36 Mbps, 54 Mbps, MCS0, MCS7, MCS8, MCS15

POWER SETTINGS INVESTIGATED

120VAC/60Hz

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	18000 MHz
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SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVP	2/13/2011	12
Antenna, Horn	EMCO	3160-08	AHK	NCR	0
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVL	4/8/2011	12
Antenna, Horn	ETS	3160-07	AHX	NCR	0
OC11 Cables	N/A	12-18GHz RE Cables	OCS	4/8/2011	12
Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVJ	10/28/2010	12
Antenna, Horn	EMCO	3115	AHB	3/8/2011	24
OC11 Cables	N/A	1-8GHz RE Cables	OCR	4/8/2011	12
Spectrum Analyzer	Agilent	E4440A	AFG	4/28/2011	12

MEASUREMENT BANDWIDTHS

	Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
	0.01 - 0.15	1.0	0.2	0.2
	0.15 - 30.0	10.0	9.0	9.0
	30.0 - 1000	100.0	120.0	120.0
	Above 1000	1000.0	N/A	1000.0

Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

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. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. The measurement uncertainty estimation is available upon request.

TEST DESCRIPTION

The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axis, and adjusting measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.10:2009). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

EMC

Spurious Radiated Emissions

EMI 2006.3.27

EUT: WMIA-199NI				Work Order: PROS0109	
Serial Number: 09435H1000039				Date: 06/27/11	
Customer: ProSoft Technology, Inc.				Temperature: 22.41	
Attendees: None				Humidity: 41%	
Project: None				Barometric Pres.: 1019.2	
Tested by: Mark Baytan		Power: 120VAC/60Hz		Job Site: OC11	

TEST SPECIFICATIONS

FCC 15.247:2011

TEST METHOD

ANSI C63.10:2009

TEST PARAMETERS

Antenna Height(s) (m)	1 - 4	Test Distance (m)	3
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COMMENTS

Power Level set to 15. Z-Axis

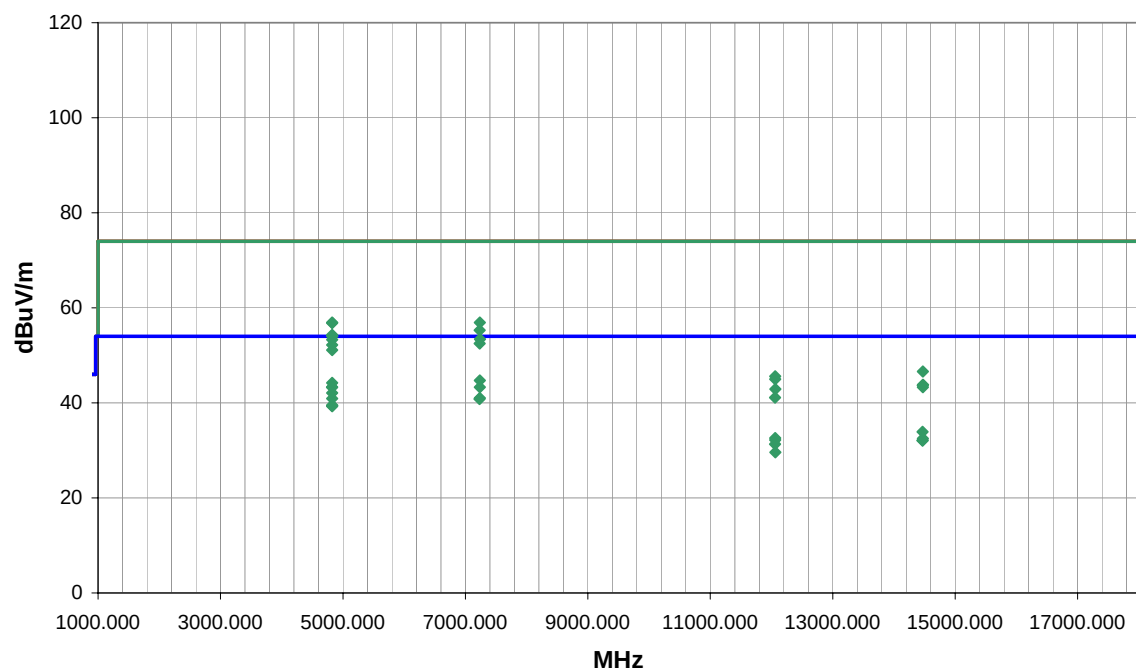
EUT OPERATING MODES

Transmitting at 802.11(g)/(n) Channel 1

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	25	Signature 
Configuration #	2	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
7235.709	33.7	11.0	25.0	1.0	3.0	0.0	H-Horn	AV	0.0	44.7	54.0	-9.3	6 Mbps
4822.722	39.1	5.1	27.0	1.1	3.0	0.0	V-Horn	AV	0.0	44.2	54.0	-9.8	6 Mbps Z
4823.951	38.2	5.1	130.0	1.0	0.0	0.0	V-Horn	AV	0.0	43.3	54.0	-10.7	6 Mbps X
7234.606	32.3	11.0	208.0	1.0	3.0	0.0	V-Horn	AV	0.0	43.3	54.0	-10.7	6 Mbps
4821.921	38.2	5.1	348.0	1.1	3.0	0.0	H-Horn	AV	0.0	43.3	54.0	-10.7	MCS15
4824.605	36.9	5.2	347.0	1.0	3.0	0.0	H-Horn	AV	0.0	42.1	54.0	-11.9	6 Mbps X
7234.838	30.0	11.0	34.0	1.0	3.0	0.0	H-Horn	AV	0.0	41.0	54.0	-13.0	MCS15
4824.087	35.8	5.1	168.0	1.0	0.0	0.0	H-Horn	AV	0.0	40.9	54.0	-13.1	6 Mbps Y
7231.404	29.8	11.0	293.0	1.0	3.0	0.0	V-Horn	AV	0.0	40.8	54.0	-13.2	MCS15
4823.892	34.4	5.1	344.0	1.1	3.0	0.0	V-Horn	AV	0.0	39.5	54.0	-14.5	MCS15
4823.918	34.3	5.1	183.0	1.0	0.0	0.0	V-Horn	AV	0.0	39.4	54.0	-14.6	6 Mbps Y
4823.960	34.2	5.1	213.0	1.0	0.0	0.0	H-Horn	AV	0.0	39.3	54.0	-14.7	6 Mbps Z
7234.599	45.9	11.0	25.0	1.0	3.0	0.0	H-Horn	PK	0.0	56.9	74.0	-17.1	6 Mbps
4822.487	51.8	5.1	27.0	1.1	3.0	0.0	V-Horn	PK	0.0	56.9	74.0	-17.1	6 Mbps X
4824.035	51.7	5.1	130.0	1.0	0.0	0.0	V-Horn	PK	0.0	56.8	74.0	-17.2	6 Mbps Z
7234.066	44.3	11.0	208.0	1.0	3.0	0.0	V-Horn	PK	0.0	55.3	74.0	-18.7	6 Mbps
4823.264	49.2	5.1	348.0	1.1	3.0	0.0	H-Horn	PK	0.0	54.3	74.0	-19.7	MCS15
4824.032	49.0	5.1	168.0	1.0	0.0	0.0	H-Horn	PK	0.0	54.1	74.0	-19.9	6 Mbps Y
4825.673	48.9	5.1	347.0	1.0	3.0	0.0	H-Horn	PK	0.0	54.0	74.0	-20.0	6 Mbps X
14467.710	32.9	1.0	283.0	1.1	3.0	0.0	V-Horn	AV	0.0	33.9	54.0	-20.1	6 Mbps

EMC

Spurious Radiated Emissions

EMI 2006.3.27

EUT: WMIA-199NI				Work Order: PROS0109	
Serial Number: 09435H1000039				Date: 06/27/11	
Customer: ProSoft Technology, Inc.				Temperature: 22.41	
Attendees: None				Humidity: 41%	
Project: None				Barometric Pres.: 1019.2	
Tested by: Mark Baytan		Power: 120VAC/60Hz		Job Site: OC11	

TEST SPECIFICATIONS

FCC 15.247:2011

TEST METHOD

ANSI C63.10:2009

TEST PARAMETERS

Antenna Height(s) (m)	1 - 4	Test Distance (m)	3
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COMMENTS

Power Level set to 15. Z-Axis

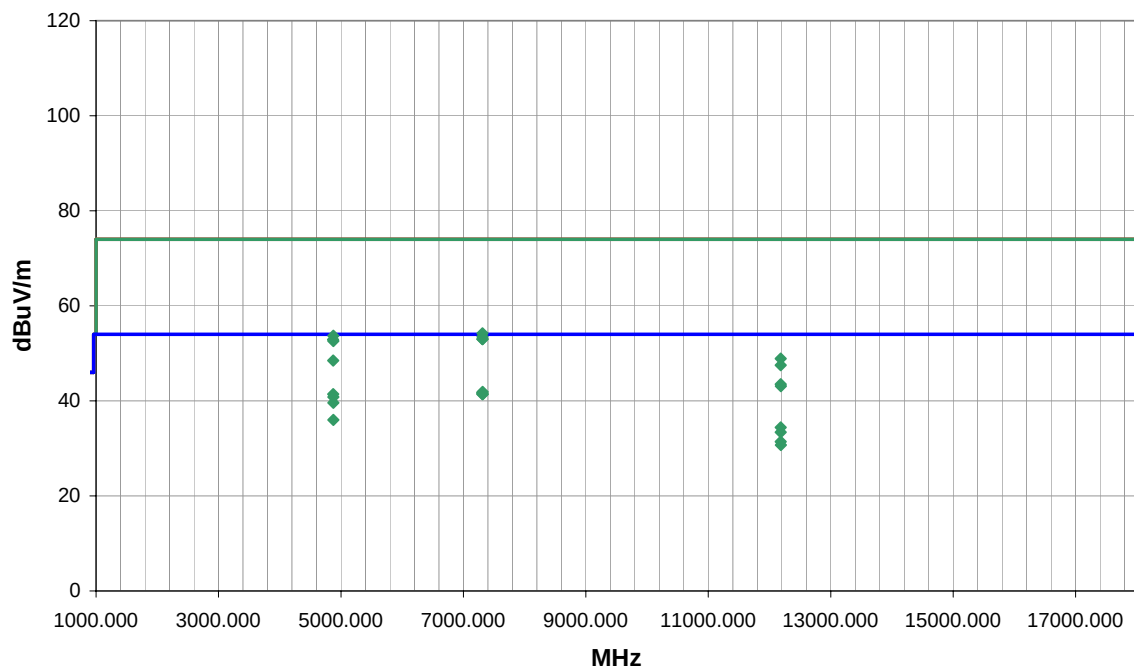
EUT OPERATING MODES

Transmitting at 802.11(g)/(n) Channel 6

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	27	Signature 
Configuration #	2	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
7314.377	30.6	11.3	160.0	1.0	0.0	0.0	H-Horn	AV	0.0	41.9	54.0	-12.1	6 Mbps
7306.812	30.4	11.3	89.0	1.0	0.0	0.0	H-Horn	AV	0.0	41.7	54.0	-12.3	MCS15
4873.143	36.1	5.3	30.0	1.2	0.0	0.0	V-Horn	AV	0.0	41.4	54.0	-12.6	MCS15
7307.842	30.1	11.3	358.0	1.8	0.0	0.0	V-Horn	AV	0.0	41.4	54.0	-12.6	MCS15
7316.599	30.1	11.3	29.0	1.8	0.0	0.0	V-Horn	AV	0.0	41.4	54.0	-12.6	6 Mbps
4875.752	35.5	5.3	42.0	1.3	0.0	0.0	V-Horn	AV	0.0	40.8	54.0	-13.2	6 Mbps
4874.455	34.3	5.3	125.0	1.2	0.0	0.0	H-Horn	AV	0.0	39.6	54.0	-14.4	6 Mbps
4876.062	30.7	5.3	122.0	1.2	0.0	0.0	H-Horn	AV	0.0	36.0	54.0	-18.0	MCS15
12182.810	40.8	-6.4	241.0	1.0	0.0	0.0	V-Horn	AV	0.0	34.4	54.0	-19.6	6 Mbps
7312.234	42.9	11.3	160.0	1.0	0.0	0.0	H-Horn	PK	0.0	54.2	74.0	-19.8	6 Mbps
4875.637	48.4	5.3	42.0	1.3	0.0	0.0	V-Horn	PK	0.0	53.7	74.0	-20.3	6 Mbps
7311.397	42.2	11.3	29.0	1.8	0.0	0.0	V-Horn	PK	0.0	53.5	74.0	-20.5	6 Mbps
12183.830	39.8	-6.4	181.0	1.2	0.0	0.0	H-Horn	AV	0.0	33.4	54.0	-20.6	6 Mbps
7309.642	41.7	11.3	89.0	1.0	0.0	0.0	H-Horn	PK	0.0	53.0	74.0	-21.0	MCS15
7313.290	41.7	11.3	358.0	1.8	0.0	0.0	V-Horn	PK	0.0	53.0	74.0	-21.0	MCS15
4871.144	47.6	5.3	30.0	1.2	0.0	0.0	V-Horn	PK	0.0	52.9	74.0	-21.1	MCS15
4875.210	47.3	5.3	125.0	1.2	0.0	0.0	H-Horn	PK	0.0	52.6	74.0	-21.4	6 Mbps
12182.420	37.8	-6.4	211.0	1.0	0.0	0.0	V-Horn	AV	0.0	31.4	54.0	-22.6	MCS15
12184.460	37.1	-6.4	153.0	1.2	0.0	0.0	H-Horn	AV	0.0	30.7	54.0	-23.3	MCS15
12183.450	55.3	-6.4	241.0	1.0	0.0	0.0	V-Horn	PK	0.0	48.9	74.0	-25.1	6 Mbps

EMC

Spurious Radiated Emissions

EMI 2006.3.27

EUT: WMIA-199NI				Work Order: PROS0109	
Serial Number: 09435H1000039				Date: 06/27/11	
Customer: ProSoft Technology, Inc.				Temperature: 22.41	
Attendees: None				Humidity: 41%	
Project: None				Barometric Pres.: 1019.2	
Tested by: Mark Baytan		Power: 120VAC/60Hz		Job Site: OC11	

TEST SPECIFICATIONS

FCC 15.247:2011

TEST METHOD

ANSI C63.10:2009

TEST PARAMETERS

Antenna Height(s) (m)	1 - 4	Test Distance (m)	3
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COMMENTS

Power Level set to 15. Z-Axis

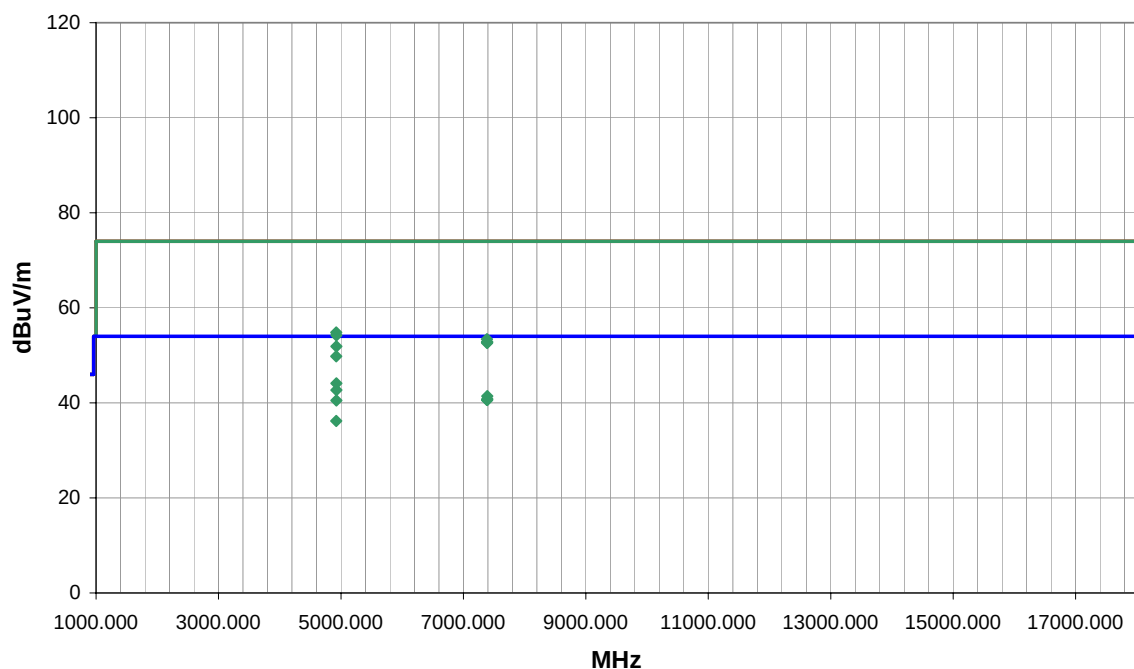
EUT OPERATING MODES

Transmitting at 802.11(g)/(n) Channel 11

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	30	Signature 
Configuration #	2	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
4924.246	38.6	5.5	344.0	1.1	0.0	0.0	V-Horn	AV	0.0	44.1	54.0	-9.9	6 Mbps
4923.988	37.2	5.5	345.0	1.1	0.0	0.0	V-Horn	AV	0.0	42.7	54.0	-11.3	MCS15
7390.786	30.1	11.3	231.0	1.5	0.0	0.0	V-Horn	AV	0.0	41.4	54.0	-12.6	6 Mbps
7389.429	29.5	11.3	188.0	1.2	0.0	0.0	H-Horn	AV	0.0	40.8	54.0	-13.2	MCS15
7386.005	29.3	11.3	154.0	1.5	0.0	0.0	V-Horn	AV	0.0	40.6	54.0	-13.4	MCS15
7387.590	29.3	11.3	190.0	2.4	0.0	0.0	H-Horn	AV	0.0	40.6	54.0	-13.4	6 Mbps
4926.010	35.0	5.5	125.0	1.0	0.0	0.0	H-Horn	AV	0.0	40.5	54.0	-13.5	6 Mbps
4923.218	30.7	5.5	105.0	1.0	0.0	0.0	H-Horn	AV	0.0	36.2	54.0	-17.8	MCS15
4921.722	49.3	5.5	345.0	1.1	0.0	0.0	V-Horn	PK	0.0	54.8	74.0	-19.2	MCS15
4925.665	48.7	5.5	344.0	1.1	0.0	0.0	V-Horn	PK	0.0	54.2	74.0	-19.8	6 Mbps
7385.230	42.1	11.3	190.0	2.4	0.0	0.0	H-Horn	PK	0.0	53.4	74.0	-20.6	6 Mbps
7385.608	41.5	11.3	188.0	1.2	0.0	0.0	H-Horn	PK	0.0	52.8	74.0	-21.2	MCS15
7388.407	41.5	11.3	231.0	1.5	0.0	0.0	V-Horn	PK	0.0	52.8	74.0	-21.2	6 Mbps
7386.779	41.3	11.3	154.0	1.5	0.0	0.0	V-Horn	PK	0.0	52.6	74.0	-21.4	MCS15
4926.109	46.4	5.5	125.0	1.0	0.0	0.0	H-Horn	PK	0.0	51.9	74.0	-22.1	6 Mbps
4922.967	44.3	5.5	105.0	1.0	0.0	0.0	H-Horn	PK	0.0	49.8	74.0	-24.2	MCS15
12310.040	34.1	-133.9	86.0	1.0	0.0	0.0	H-Horn	AV	0.0	-99.8	54.0	-153.8	MCS15
12310.080	33.9	-133.9	336.0	2.1	0.0	0.0	V-Horn	AV	0.0	-100.0	54.0	-154.0	MCS15
12308.370	31.5	-133.9	166.0	1.3	0.0	0.0	H-Horn	AV	0.0	-102.4	54.0	-156.4	6 Mbps
12304.960	31.3	-133.9	251.0	1.9	0.0	0.0	V-Horn	AV	0.0	-102.6	54.0	-156.6	6 Mbps

EMC

Spurious Radiated Emissions

EMI 2006.3.27

EUT: WMIA-199NI				Work Order: PROS0109	
Serial Number: 09435H1000039				Date: 06/28/11	
Customer: ProSoft Technology, Inc.				Temperature: 22.41	
Attendees: None				Humidity: 41%	
Project: None				Barometric Pres.: 1019.2	
Tested by: Mark Baytan		Power: 120VAC/60Hz		Job Site: OC11	

TEST SPECIFICATIONS

FCC 15.247:2011

TEST METHOD

ANSI C63.10:2009

TEST PARAMETERS

Antenna Height(s) (m)	1 - 4	Test Distance (m)	3
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COMMENTS

Power Level set to 15. Z-Axis

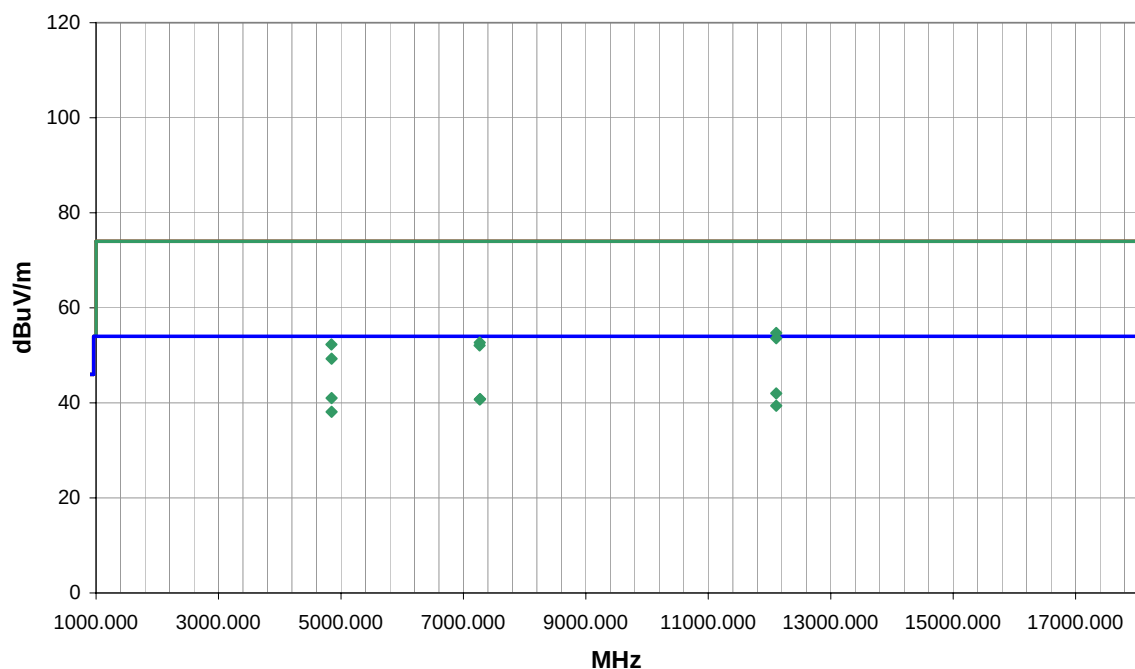
EUT OPERATING MODES

Transmitting at 802.11(n) Channel 1 40MHz

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	25	Signature 
Configuration #	1	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
12110.570	31.0	11.0	131.0	1.0	3.0	0.0	H-Horn	AV	0.0	42.0	54.0	-12.0	MCS15
4847.707	35.8	5.2	124.0	1.2	3.0	0.0	H-Horn	AV	0.0	41.0	54.0	-13.0	MCS15
7271.284	29.7	11.1	189.0	1.0	3.0	0.0	H-Horn	AV	0.0	40.8	54.0	-13.2	MCS15
7266.155	29.6	11.1	197.0	3.2	3.0	0.0	V-Horn	AV	0.0	40.7	54.0	-13.3	MCS15
12110.540	28.4	11.0	198.0	1.0	3.0	0.0	V-Horn	AV	0.0	39.4	54.0	-14.6	MCS15
4847.778	32.9	5.2	326.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.1	54.0	-15.9	MCS15
12109.980	43.7	11.0	131.0	1.0	3.0	0.0	H-Horn	PK	0.0	54.7	74.0	-19.3	MCS15
12110.000	42.6	11.0	198.0	1.0	3.0	0.0	V-Horn	PK	0.0	53.6	74.0	-20.4	MCS15
7266.950	41.6	11.1	189.0	1.0	3.0	0.0	H-Horn	PK	0.0	52.7	74.0	-21.3	MCS15
4844.137	47.1	5.2	124.0	1.2	3.0	0.0	H-Horn	PK	0.0	52.3	74.0	-21.7	MCS15
7264.928	41.0	11.1	197.0	3.2	3.0	0.0	V-Horn	PK	0.0	52.1	74.0	-21.9	MCS15
4845.845	44.1	5.2	326.0	1.0	3.0	0.0	V-Horn	PK	0.0	49.3	74.0	-24.7	MCS15

EMC

Spurious Radiated Emissions

EMI 2006.3.27

EUT: WMIA-199NI	Work Order: PROS0109
Serial Number: 09435H1000039	Date: 06/28/11
Customer: ProSoft Technology, Inc.	Temperature: 22.41
Attendees: None	Humidity: 41%
Project: None	Barometric Pres.: 1019.2
Tested by: Mark Baytan	Power: 120VAC/60Hz
	Job Site: OC11

TEST SPECIFICATIONS

FCC 15.247:2011

TEST METHOD

ANSI C63.10:2009

TEST PARAMETERS

Antenna Height(s) (m)	1 - 4	Test Distance (m)	3
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COMMENTS

Power Level set to 15. Z-Axis

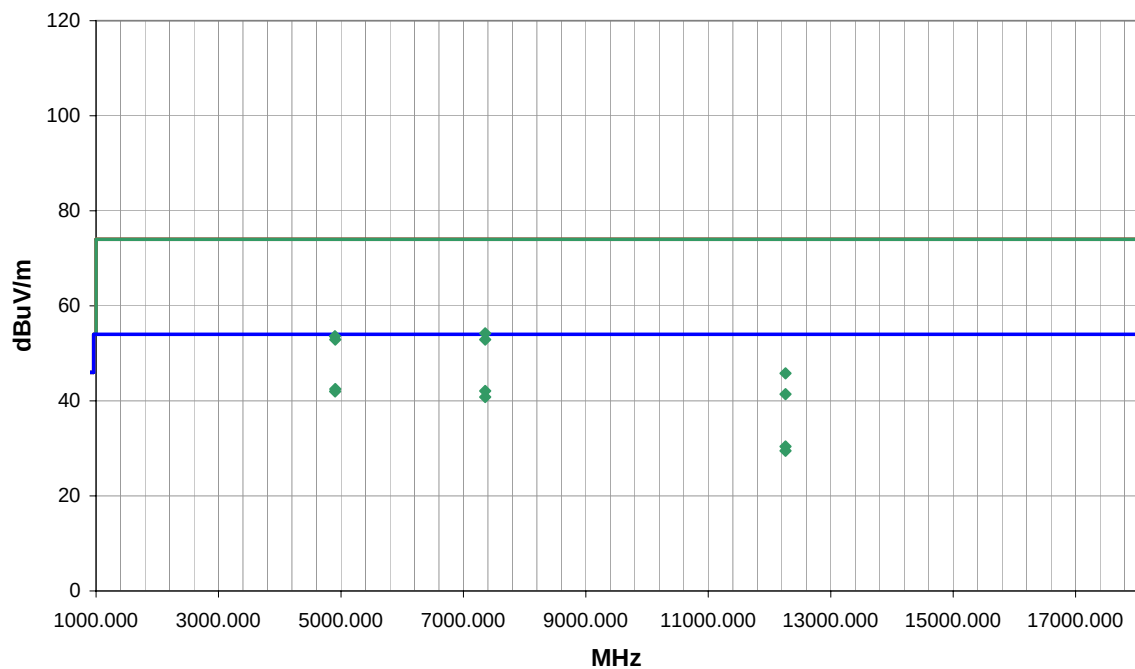
EUT OPERATING MODES

Transmitting at 802.11(n) Channel 11 40MHz

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	25	Signature 
Configuration #	1	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
4907.533	37.1	5.4	108.0	1.3	3.0	0.0	H-Horn	AV	0.0	42.5	54.0	-11.5	MCS15
7354.458	30.8	11.3	35.0	1.0	3.0	0.0	H-Horn	AV	0.0	42.1	54.0	-11.9	MCS15
4904.159	36.6	5.4	40.0	1.2	3.0	0.0	V-Horn	AV	0.0	42.0	54.0	-12.0	MCS15
7355.246	29.5	11.3	6.0	2.0	3.0	0.0	V-Horn	AV	0.0	40.8	54.0	-13.2	MCS15
7354.464	42.9	11.3	35.0	1.0	3.0	0.0	H-Horn	PK	0.0	54.2	74.0	-19.8	MCS15
4901.035	48.2	5.4	108.0	1.3	3.0	0.0	H-Horn	PK	0.0	53.6	74.0	-20.4	MCS15
4906.338	47.5	5.4	40.0	1.2	3.0	0.0	V-Horn	PK	0.0	52.9	74.0	-21.1	MCS15
7355.108	41.6	11.3	6.0	2.0	3.0	0.0	V-Horn	PK	0.0	52.9	74.0	-21.1	MCS15
12260.310	36.7	-6.3	209.0	1.5	3.0	0.0	V-Horn	AV	0.0	30.4	54.0	-23.6	MCS15
12260.190	35.8	-6.3	299.0	1.0	3.0	0.0	H-Horn	AV	0.0	29.5	54.0	-24.5	MCS15
12260.010	52.1	-6.3	209.0	1.5	3.0	0.0	V-Horn	PK	0.0	45.8	74.0	-28.2	MCS15
12260.290	47.7	-6.3	299.0	1.0	3.0	0.0	H-Horn	PK	0.0	41.4	74.0	-32.6	MCS15

EMC

Spurious Radiated Emissions

EMI 2006.3.27

EUT: WMIA-199NI				Work Order: PROS0109	
Serial Number: 09435H1000039				Date: 06/29/11	
Customer: ProSoft Technology, Inc.				Temperature: 22.41	
Attendees: None				Humidity: 41%	
Project: None				Barometric Pres.: 1019.2	
Tested by: Jaemi Suh		Power: 120VAC/60Hz		Job Site: OC11	

TEST SPECIFICATIONS

FCC 15.247:2011

TEST METHOD

ANSI C63.10:2009

TEST PARAMETERS

Antenna Height(s) (m)	1 - 4	Test Distance (m)	3
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COMMENTS

Power Level set to 15. Z-Axis

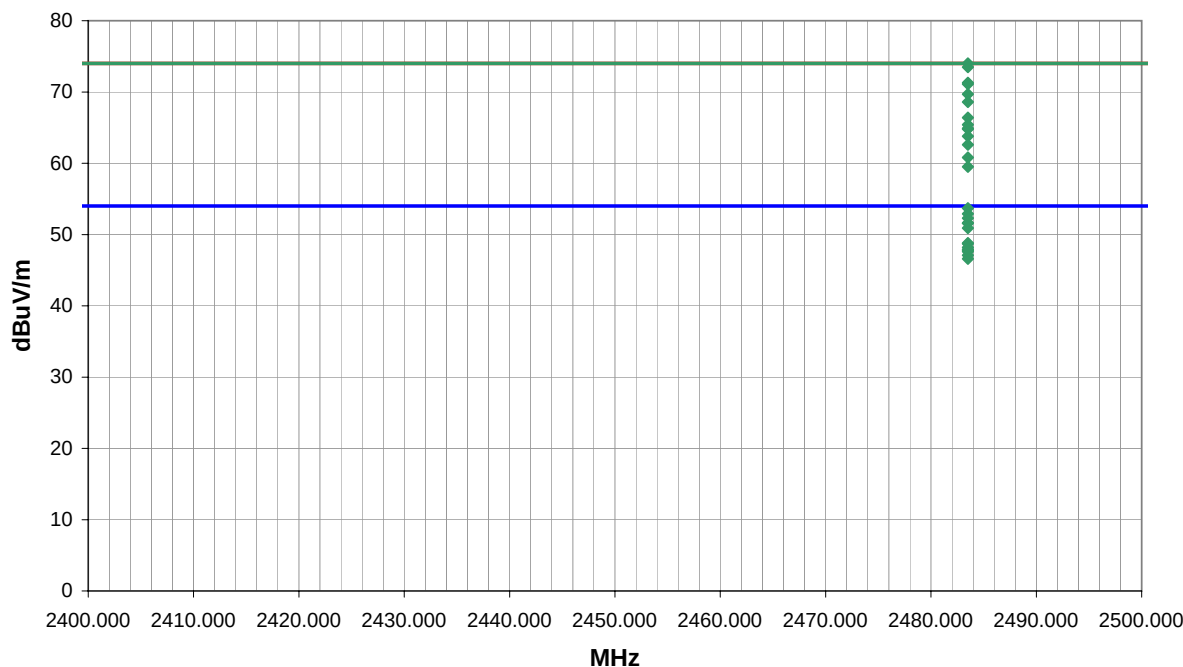
EUT OPERATING MODES

Transmitting at 802.11 (g) and 802.11 (n).

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	18	Signature 
Configuration #	1	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2483.500	57.4	-3.4	152.0	2.0	0.0	20.0	H-Horn	PK	0.0	74.0	74.0	0.0	MCS0
2483.500	37.1	-3.4	111.0	2.4	0.0	20.0	H-Horn	AV	0.0	53.7	54.0	-0.3	6 Mbps
2483.500	56.9	-3.4	111.0	2.4	0.0	20.0	H-Horn	PK	0.0	73.5	74.0	-0.5	6 Mbps
2483.500	36.3	-3.4	147.0	2.1	0.0	20.0	V-Horn	AV	0.0	52.9	54.0	-1.1	MCS7
2483.500	35.7	-3.4	152.0	2.0	0.0	20.0	H-Horn	AV	0.0	52.3	54.0	-1.7	MCS0
2483.500	35.0	-3.4	141.0	2.0	0.0	20.0	H-Horn	AV	0.0	51.6	54.0	-2.4	MCS7
2483.500	35.0	-3.4	251.0	1.7	0.0	20.0	V-Horn	AV	0.0	51.6	54.0	-2.4	54 Mbps
2483.500	54.7	-3.4	147.0	2.1	0.0	20.0	V-Horn	PK	0.0	71.3	74.0	-2.7	MCS7
2483.500	54.5	-3.4	251.0	1.7	0.0	20.0	V-Horn	PK	0.0	71.1	74.0	-2.9	54 Mbps
2483.500	34.3	-3.4	262.0	1.7	0.0	20.0	V-Horn	AV	0.0	50.9	54.0	-3.1	36 Mbps
2483.500	53.1	-3.4	141.0	2.0	0.0	20.0	H-Horn	PK	0.0	69.7	74.0	-4.3	MCS7
2483.499	32.2	-3.4	128.0	1.9	0.0	20.0	H-Horn	AV	0.0	48.8	54.0	-5.2	MCS8
2483.500	32.1	-3.4	216.0	1.7	0.0	20.0	V-Horn	AV	0.0	48.7	54.0	-5.3	6 Mbps
2483.500	52.0	-3.4	262.0	1.7	0.0	20.0	V-Horn	PK	0.0	68.6	74.0	-5.4	36 Mbps
2483.500	31.6	-3.4	27.0	2.0	0.0	20.0	H-Horn	AV	0.0	48.2	54.0	-5.8	54 Mbps
2483.500	31.3	-3.4	45.0	1.1	0.0	20.0	H-Horn	AV	0.0	47.9	54.0	-6.1	36 Mbps
2483.500	31.2	-3.4	216.0	1.8	0.0	20.0	V-Horn	AV	0.0	47.8	54.0	-6.2	MCS0
2483.500	31.0	-3.4	218.0	2.5	0.0	20.0	V-Horn	AV	0.0	47.6	54.0	-6.4	MCS15
2483.499	30.5	-3.4	225.0	2.1	0.0	20.0	V-Horn	AV	0.0	47.1	54.0	-6.9	MCS8
2483.500	30.0	-3.4	38.0	1.1	0.0	20.0	H-Horn	AV	0.0	46.6	54.0	-7.4	MCS15

EMC

Spurious Radiated Emissions

EMI 2006.3.27

EUT: WMIA-199NI				Work Order: PROS0109	
Serial Number: 09435H1000039				Date: 06/29/11	
Customer: ProSoft Technology, Inc.				Temperature: 22.41	
Attendees: None				Humidity: 41%	
Project: None				Barometric Pres.: 1019.2	
Tested by: Jaemi Suh		Power: 120VAC/60Hz		Job Site: OC11	

TEST SPECIFICATIONS

FCC 15.247:2011

TEST METHOD

ANSI C63.10:2009

TEST PARAMETERS

Antenna Height(s) (m)	1 - 4	Test Distance (m)	3
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COMMENTS

Power Level set to 15. Z-Axis

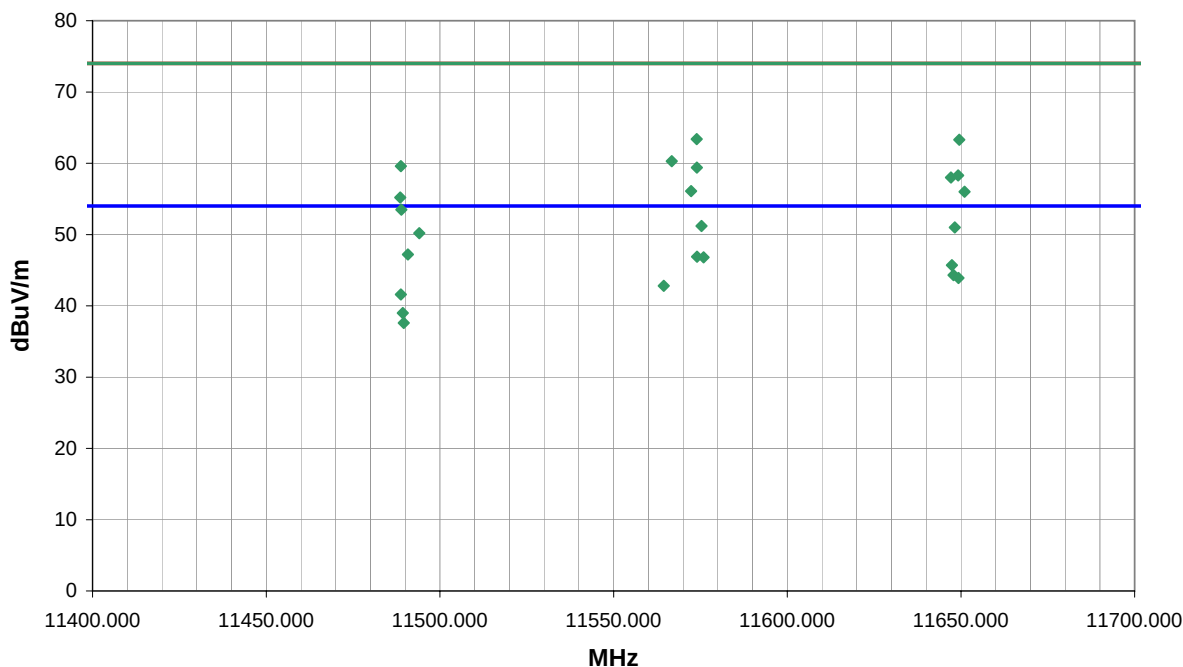
EUT OPERATING MODES

Transmitting at 802.11 (a) and 802.11 (n)

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	19	Signature 
Configuration #	1	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
11575.320	59.4	-8.2	359.0	1.7	0.0	0.0	V-Horn	AV	0.0	51.2	54.0	-2.8	MCS7
11648.220	59.0	-8.0	286.0	1.6	0.0	0.0	V-Horn	AV	0.0	51.0	54.0	-3.0	MCS7
11490.780	55.4	-8.2	291.0	1.5	0.0	0.0	V-Horn	AV	0.0	47.2	54.0	-6.8	MCS7
11574.030	55.1	-8.2	292.0	1.7	0.0	0.0	V-Horn	AV	0.0	46.9	54.0	-7.1	36 Mbps
11575.920	55.0	-8.2	295.0	1.5	0.0	0.0	H-Horn	AV	0.0	46.8	54.0	-7.2	MCS7
11647.400	53.7	-8.0	293.0	1.4	0.0	0.0	H-Horn	AV	0.0	45.7	54.0	-8.3	MCS7
11647.850	52.3	-8.0	89.0	1.4	0.0	0.0	H-Horn	AV	0.0	44.3	54.0	-9.7	36 Mbps
11649.270	51.9	-8.0	339.0	1.6	0.0	0.0	V-Horn	AV	0.0	43.9	54.0	-10.1	36 Mbps
11573.920	71.6	-8.2	359.0	1.7	0.0	0.0	V-Horn	PK	0.0	63.4	74.0	-10.6	MCS7
11649.500	71.3	-8.0	286.0	1.6	0.0	0.0	V-Horn	PK	0.0	63.3	74.0	-10.7	MCS7
11564.430	51.0	-8.2	243.0	1.5	0.0	0.0	H-Horn	AV	0.0	42.8	54.0	-11.2	36 Mbps
11488.770	49.8	-8.2	242.0	1.0	0.0	0.0	V-Horn	AV	0.0	41.6	54.0	-12.4	36 Mbps
11566.750	68.5	-8.2	292.0	1.7	0.0	0.0	V-Horn	PK	0.0	60.3	74.0	-13.7	36 Mbps
11488.780	67.8	-8.2	291.0	1.5	0.0	0.0	V-Horn	PK	0.0	59.6	74.0	-14.4	MCS7
11573.970	67.6	-8.2	295.0	1.5	0.0	0.0	H-Horn	PK	0.0	59.4	74.0	-14.6	MCS7
11489.320	47.2	-8.2	41.0	1.5	0.0	0.0	H-Horn	AV	0.0	39.0	54.0	-15.0	MCS7
11649.180	66.3	-8.0	89.0	1.4	0.0	0.0	H-Horn	PK	0.0	58.3	74.0	-15.7	36 Mbps
11647.120	66.0	-8.0	293.0	1.4	0.0	0.0	H-Horn	PK	0.0	58.0	74.0	-16.0	MCS7
11489.580	45.8	-8.2	249.0	1.0	0.0	0.0	H-Horn	AV	0.0	37.6	54.0	-16.4	36 Mbps
11572.330	64.3	-8.2	243.0	1.5	0.0	0.0	H-Horn	PK	0.0	56.1	74.0	-17.9	36 Mbps

EMC

Spurious Radiated Emissions

EMI 2006.3.27

EUT: WMIA-199NI				Work Order: PROS0109	
Serial Number: 09435H1000039				Date: 06/29/11	
Customer: ProSoft Technology, Inc.				Temperature: 22.41	
Attendees: None				Humidity: 41%	
Project: None				Barometric Pres.: 1019.2	
Tested by: Jaemi Suh		Power: 120VAC/60Hz		Job Site: OC11	

TEST SPECIFICATIONS

FCC 15.247:2011

TEST METHOD

ANSI C63.10:2009

TEST PARAMETERS

Antenna Height(s) (m)	1 - 4	Test Distance (m)	3
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COMMENTS

Power Level set to 15. Z-Axis

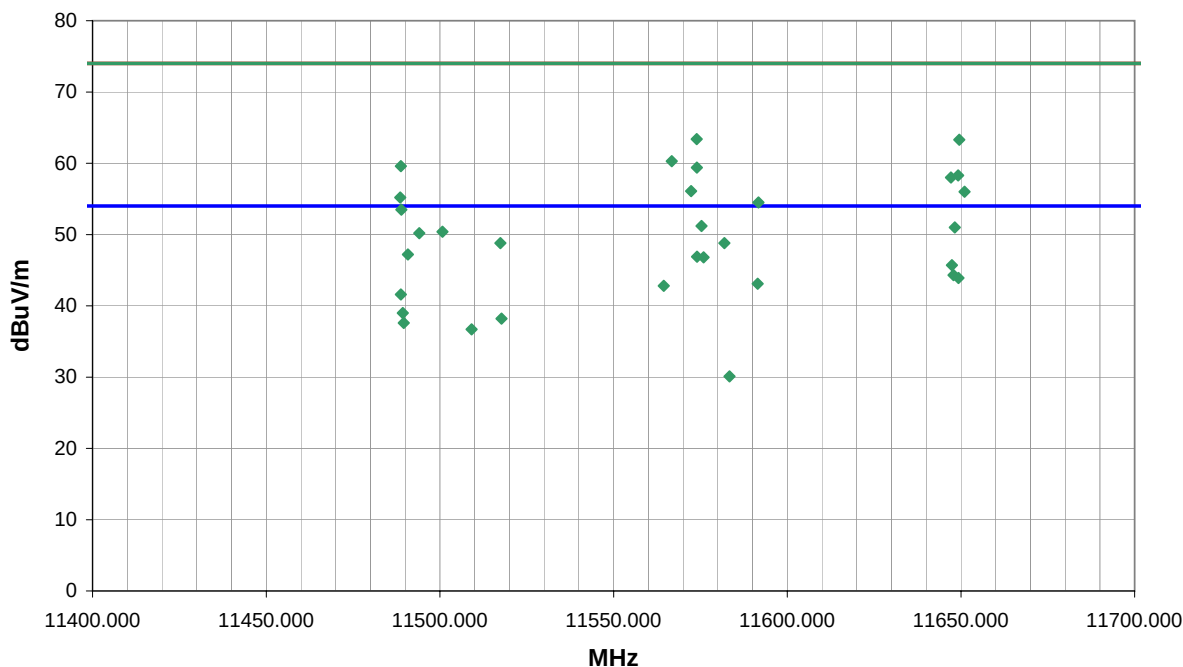
EUT OPERATING MODES

Transmitting at 802.11 a

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	20	Signature 
Configuration #	2	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
11575.320	59.4	-8.2	359.0	1.7	0.0	0.0	V-Horn	AV	0.0	51.2	54.0	-2.8	MCS8
11648.220	59.0	-8.0	286.0	1.6	0.0	0.0	V-Horn	AV	0.0	51.0	54.0	-3.0	MCS7
11490.780	55.4	-8.2	291.0	1.5	0.0	0.0	V-Horn	AV	0.0	47.2	54.0	-6.8	MCS8
11574.030	55.1	-8.2	292.0	1.7	0.0	0.0	V-Horn	AV	0.0	46.9	54.0	-7.1	36 Mbps
11575.920	55.0	-8.2	295.0	1.5	0.0	0.0	H-Horn	AV	0.0	46.8	54.0	-7.2	MCS8
11647.400	53.7	-8.0	293.0	1.4	0.0	0.0	H-Horn	AV	0.0	45.7	54.0	-8.3	MCS7
11647.850	52.3	-8.0	89.0	1.4	0.0	0.0	H-Horn	AV	0.0	44.3	54.0	-9.7	36 Mbps
11649.270	51.9	-8.0	339.0	1.6	0.0	0.0	V-Horn	AV	0.0	43.9	54.0	-10.1	36 Mbps
11573.920	71.6	-8.2	359.0	1.7	0.0	0.0	V-Horn	PK	0.0	63.4	74.0	-10.6	MCS8
11649.500	71.3	-8.0	286.0	1.6	0.0	0.0	V-Horn	PK	0.0	63.3	74.0	-10.7	MCS7
11591.470	51.2	-8.1	292.0	1.6	0.0	0.0	V-Horn	AV	0.0	43.1	54.0	-10.9	MCS15
11564.430	51.0	-8.2	243.0	1.5	0.0	0.0	H-Horn	AV	0.0	42.8	54.0	-11.2	36 Mbps
11488.770	49.8	-8.2	242.0	1.0	0.0	0.0	V-Horn	AV	0.0	41.6	54.0	-12.4	36 Mbps
11566.750	68.5	-8.2	292.0	1.7	0.0	0.0	V-Horn	PK	0.0	60.3	74.0	-13.7	36 Mbps
11488.780	67.8	-8.2	291.0	1.5	0.0	0.0	V-Horn	PK	0.0	59.6	74.0	-14.4	MCS8
11573.970	67.6	-8.2	295.0	1.5	0.0	0.0	H-Horn	PK	0.0	59.4	74.0	-14.6	MCS8
11489.320	47.2	-8.2	41.0	1.5	0.0	0.0	H-Horn	AV	0.0	39.0	54.0	-15.0	MCS8
11649.180	66.3	-8.0	89.0	1.4	0.0	0.0	H-Horn	PK	0.0	58.3	74.0	-15.7	36 Mbps
11517.730	46.4	-8.2	180.0	1.7	0.0	0.0	V-Horn	AV	0.0	38.2	54.0	-15.8	MCS15
11647.120	66.0	-8.0	293.0	1.4	0.0	0.0	H-Horn	PK	0.0	58.0	74.0	-16.0	MCS7

EMC**Spurious Radiated Emissions**

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

MODES OF OPERATION

Transmitting at 802.11(g)/(n) Channel 1
 Transmitting at 802.11(g)/(n) Channel 6
 Transmitting at 802.11(g)/(n) Channel 11
 Transmitting at 802.11(a)/(n) Channel 149
 Transmitting at 802.11(a)/(n) Channel 157
 Transmitting at 802.11(a)/(n) Channel 165

CHANNEL BANDWIDTHS INVESTIGATED

20 MHz
 40 MHz

POWER SETTINGS INVESTIGATED

120VAC/60Hz

MODES INVESTIGATED

6 Mbps, 36 Mbps, 54 Mbps, MCS0, MCS7, MCS8, MCS15

AXIS INVESTIGATED

X-Axis
 Y-Axis
 Z-Axis

FREQUENCY RANGE INVESTIGATED

Start Frequency 18 GHz Stop Frequency 40 GHz

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Pre-Amplifier	Miteq	JSW45-26004000-40-5P	AVQ	9/7/2010	12 mo
Antenna, Horn	ETS	3160-10	AIX	NCR	0 mo
Cable	ESM Cable Corp.	KMKM-72	EVZ	10/20/2010	12 mo
Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AOI	4/29/2011	12 mo
Antenna, Horn	EMCO	3160-09	AHN	NCR	0 mo
OC floating Cable	N/A	18-26GHz RE Cables	OCK	4/29/2011	12 mo
Spectrum Analyzer	Agilent	E4446A	AAY	1/11/2011	12 mo

MEASUREMENT BANDWIDTHS

Frequency Range	Peak Data	Quasi-Peak Data	Average Data
(MHz)	(kHz)	(kHz)	(kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

Measurements were made using the IF bandwidths and detectors specified. No video filter was used, except in the case of the FCC Average Measurements above 1GHz. In that case, a peak detector with a 10Hz video bandwidth was used.

MEASUREMENT UNCERTAINTY

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 for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axis, and adjusting measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.10:2009). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

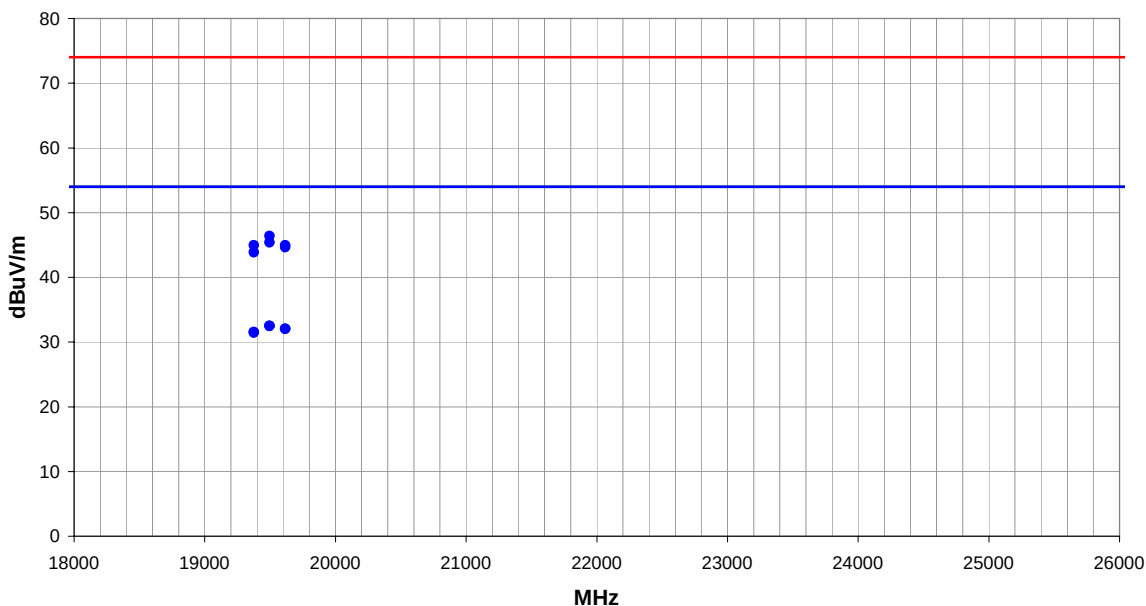
EMC

Spurious Radiated Emissions

Work Order:	PROS0109	Date:	06/29/11	
Project:	None	Temperature:	22.41	
Job Site:	OC10	Humidity:	41.1	
Serial Number:	09435H1000039	Barometric Pres.:	1019.2	
				Tested by: Jaemi Suh
EUT:	WMIA-199NI			
Configuration:	2			
Customer:	ProSoft Technology, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	See Comments Below.			
Deviations:	No deviations.			
Comments:	Power Level set to 15. Z-Axis			

Test Specifications
FCC 15.247:2011Test Method
ANSI C63.10:2009

Run #	2	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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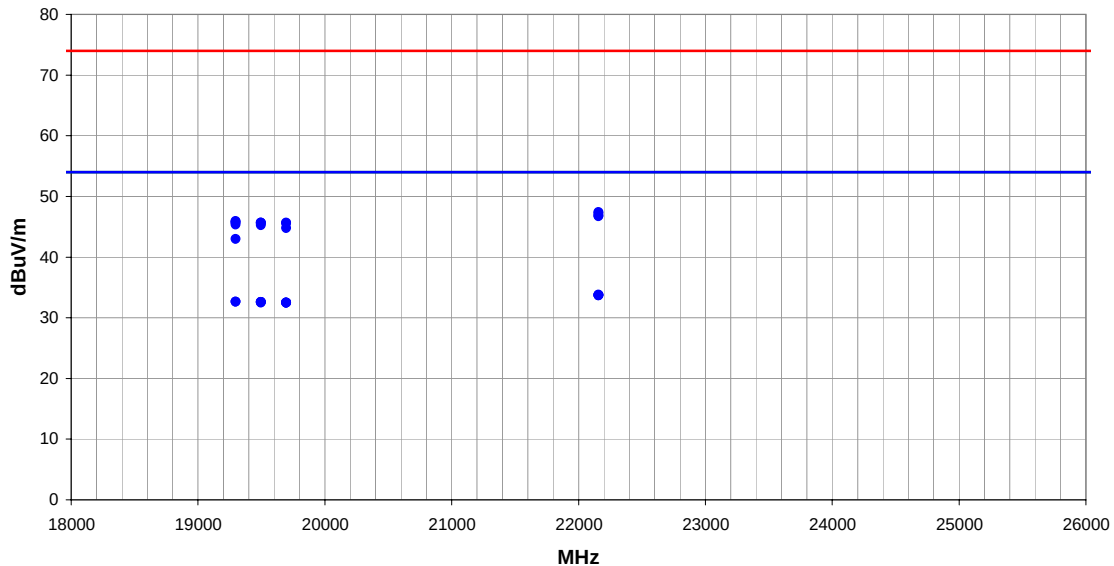
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
19496.490	32.3	0.2	1.0	0.0	3.0	0.0	Vert	AV	0.0	32.5	54.0	-21.5	Channel 6, MCS0
19496.080	32.3	0.2	1.0	0.0	3.0	0.0	Horz	AV	0.0	32.5	54.0	-21.5	Channel 6, MCS0
19616.450	31.8	0.2	1.0	0.0	3.0	0.0	Horz	AV	0.0	32.0	54.0	-22.0	Channel 11, MCS0
19616.370	31.8	0.2	1.0	0.0	3.0	0.0	Vert	AV	0.0	32.0	54.0	-22.0	Channel 11, MCS0
19376.330	31.5	0.0	1.0	0.0	3.0	0.0	Horz	AV	0.0	31.5	54.0	-22.5	Channel 1, MCS0
19376.500	31.4	0.0	1.0	0.0	3.0	0.0	Vert	AV	0.0	31.4	54.0	-22.6	Channel 1, MCS0
19495.520	46.2	0.2	1.0	0.0	3.0	0.0	Vert	PK	0.0	46.4	74.0	-27.6	Channel 6, MCS0
19495.960	45.2	0.2	1.0	0.0	3.0	0.0	Horz	PK	0.0	45.4	74.0	-28.6	Channel 6, MCS0
19615.710	44.7	0.2	1.0	0.0	3.0	0.0	Vert	PK	0.0	44.9	74.0	-29.1	Channel 11, MCS0
19376.000	44.9	0.0	1.0	0.0	3.0	0.0	Horz	PK	0.0	44.9	74.0	-29.1	Channel 1, MCS0
19616.030	44.4	0.2	1.0	0.0	3.0	0.0	Horz	PK	0.0	44.6	74.0	-29.4	Channel 11, MCS0
19376.060	43.8	0.0	1.0	0.0	3.0	0.0	Vert	PK	0.0	43.8	74.0	-30.2	Channel 1, MCS0

Spurious Radiated Emissions

Work Order:	PROS0109	Date:	06/29/11	
Project:	None	Temperature:	22.41	
Job Site:	OC10	Humidity:	41.1	
Serial Number:	09435H1000039	Barometric Pres.:	1019.2	
				Tested by: Jaemi Suh
EUT:	WMIA-199NI			
Configuration:	2			
Customer:	ProSoft Technology, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	See Comments Below.			
Deviations:	No deviations.			
Comments:	Power Level set to 15. Z-Axis			

Test Specifications FCC 15.247:2011	Test Method ANSI C63.10:2009
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Run #	1	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
19297.340	43.0	0.0	1.0	0.0	3.0	0.0	Horz	AV	0.0	43.0	54.0	-11.0	Channel 1, 6 Mbps
22157.770	31.4	2.4	1.0	0.0	3.0	0.0	Horz	AV	0.0	33.7	54.0	-20.2	Channel 11, 6 Mbps
22158.290	31.3	2.4	1.0	0.0	3.0	0.0	Vert	AV	0.0	33.7	54.0	-20.3	Channel 11, MCS15
22158.030	31.3	2.4	1.0	0.0	3.0	0.0	Horz	AV	0.0	33.7	54.0	-20.3	Channel 11, MCS15
22158.180	31.3	2.4	1.0	0.0	3.0	0.0	Vert	AV	0.0	33.8	54.0	-20.3	Channel 11, 6 Mbps
19297.130	32.7	0.0	1.0	0.0	3.0	0.0	Vert	AV	0.0	32.7	54.0	-21.3	Channel 11, MCS15
19296.210	32.7	0.0	1.0	0.0	3.0	0.0	Horz	AV	0.0	32.7	54.0	-21.3	Channel 11, MCS15
19496.490	32.4	0.2	1.0	0.0	3.0	0.0	Horz	AV	0.0	32.6	54.0	-21.4	Channel 6, MCS15
19496.490	32.4	0.2	1.0	0.0	3.0	0.0	Vert	AV	0.0	32.6	54.0	-21.4	Channel 6, MCS15
19496.460	32.4	0.2	1.0	0.0	3.0	0.0	Horz	AV	0.0	32.6	54.0	-21.4	Channel 6, 6 Mbps
19696.450	32.2	0.3	1.0	0.0	3.0	0.0	Horz	AV	0.0	32.5	54.0	-21.5	Channel 11, 6 Mbps
19696.480	32.2	0.3	1.0	0.0	3.0	0.0	Vert	AV	0.0	32.5	54.0	-21.5	Channel 11, 6 Mbps
19696.450	32.2	0.3	1.0	0.0	3.0	0.0	Vert	AV	0.0	32.5	54.0	-21.5	Channel 11, MCS15
19696.180	32.2	0.3	1.0	0.0	3.0	0.0	Horz	AV	0.0	32.5	54.0	-21.5	Channel 11, MCS15
19496.470	32.3	0.2	1.0	0.0	3.0	0.0	Vert	AV	0.0	32.5	54.0	-21.5	Channel 6, 6 Mbps
22157.550	45.0	2.4	1.0	0.0	3.0	0.0	Vert	PK	0.0	47.4	74.0	-26.6	Channel 11, 6 Mbps
22158.370	44.8	2.4	1.0	0.0	3.0	0.0	Horz	PK	0.0	47.2	74.0	-26.8	Channel 11, 6 Mbps
22158.210	44.4	2.4	1.0	0.0	3.0	0.0	Vert	PK	0.0	46.8	74.0	-27.2	Channel 11, MCS15
22158.410	44.3	2.4	1.0	0.0	3.0	0.0	Horz	PK	0.0	46.7	74.0	-27.3	Channel 11, MCS15
19296.370	46.0	0.0	1.0	0.0	3.0	0.0	Horz	PK	0.0	46.0	74.0	-28.0	Channel 11, 6 Mbps
19296.720	45.8	0.0	1.0	0.0	3.0	0.0	Vert	PK	0.0	45.8	74.0	-28.2	Channel 11, MCS15
19695.890	45.4	0.3	1.0	0.0	3.0	0.0	Horz	PK	0.0	45.7	74.0	-28.3	Channel 11, MCS15
19496.360	45.5	0.2	1.0	0.0	3.0	0.0	Vert	PK	0.0	45.7	74.0	-28.3	Channel 6, MCS15
19496.290	45.5	0.2	1.0	0.0	3.0	0.0	Horz	PK	0.0	45.7	74.0	-28.3	Channel 6, MCS15
19296.850	45.7	0.0	1.0	0.0	3.0	0.0	Vert	PK	0.0	45.7	74.0	-28.3	Channel 11, 6 Mbps
19695.810	45.3	0.3	1.0	0.0	3.0	0.0	Vert	PK	0.0	45.6	74.0	-28.4	Channel 11, MCS15
19496.290	45.4	0.2	1.0	0.0	3.0	0.0	Vert	PK	0.0	45.6	74.0	-28.4	Channel 6, 6 Mbps
19296.310	45.4	0.0	1.0	0.0	3.0	0.0	Horz	PK	0.0	45.4	74.0	-28.6	Channel 11, MCS15
19496.300	45.1	0.2	1.0	0.0	3.0	0.0	Horz	PK	0.0	45.3	74.0	-28.7	Channel 6, 6 Mbps
19695.980	44.5	0.3	1.0	0.0	3.0	0.0	Horz	PK	0.0	44.8	74.0	-29.2	Channel 11, 6 Mbps

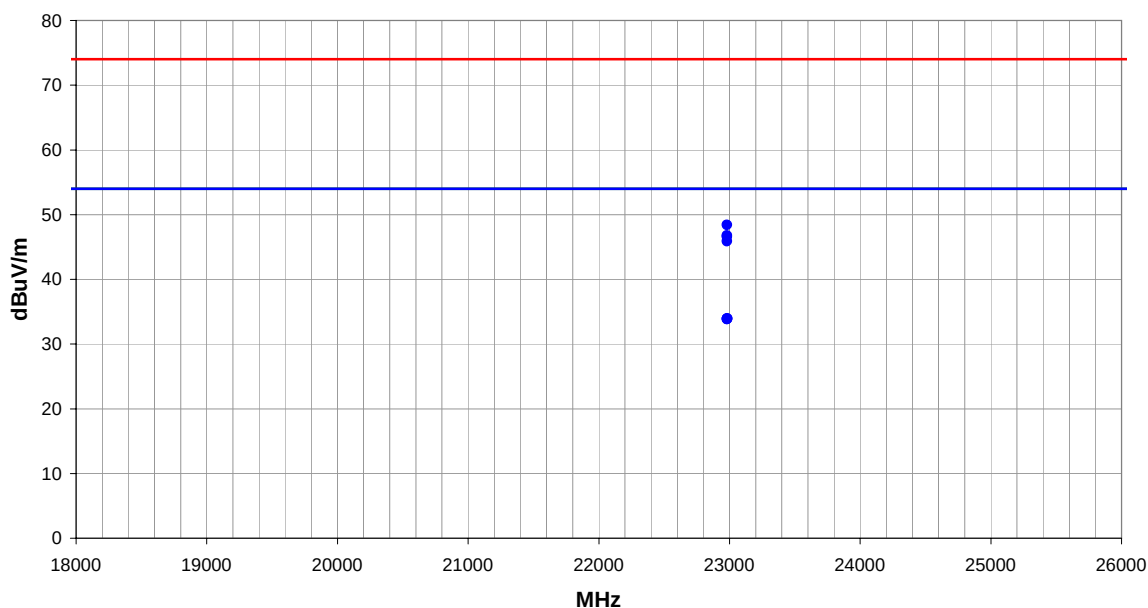
EMC

Spurious Radiated Emissions

Work Order:	PROS0109	Date:	06/29/11	
Project:	None	Temperature:	22.41	
Job Site:	OC10	Humidity:	41.1	
Serial Number:	09435H1000039	Barometric Pres.:	1019.2	
				Tested by: Jaemi Suh
EUT:	WMIA-199NI			
Configuration:	2			
Customer:	ProSoft Technology, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	See Comments Below.			
Deviations:	No deviations.			
Comments:	Power Level set to 15. Z-Axis			

Test Specifications
FCC 15.247:2011Test Method
ANSI C63.10:2009

Run #	3	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
22981.990	31.5	2.5	1.0	0.0	3.0	0.0	Vert	AV	0.0	34.0	54.0	-20.0	Channel 149, 36 Mbps
22981.630	31.4	2.5	1.0	0.0	3.0	0.0	Horz	AV	0.0	33.9	54.0	-20.1	Channel 149, 36 Mbps
22982.000	31.4	2.5	1.0	0.0	3.0	0.0	Vert	AV	0.0	33.9	54.0	-20.1	Channel 149, MCS7
22981.860	31.4	2.5	1.0	0.0	3.0	0.0	Horz	AV	0.0	33.9	54.0	-20.1	Channel 149, MCS7
22980.950	45.9	2.5	1.0	0.0	3.0	0.0	Vert	PK	0.0	48.4	74.0	-25.6	Channel 149, 36 Mbps
22980.350	44.3	2.5	1.0	0.0	3.0	0.0	Horz	PK	0.0	46.8	74.0	-27.2	Channel 149, 36 Mbps
22981.450	44.1	2.5	1.0	0.0	3.0	0.0	Vert	PK	0.0	46.6	74.0	-27.4	Channel 149, MCS7
22980.590	43.4	2.5	1.0	0.0	3.0	0.0	Horz	PK	0.0	45.9	74.0	-28.1	Channel 149, MCS7

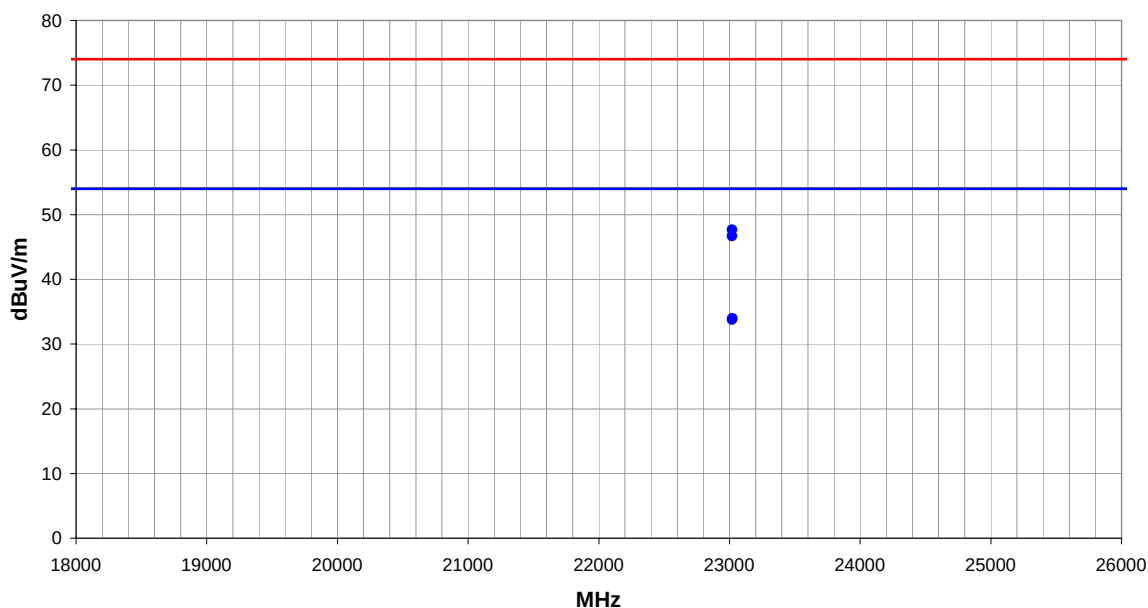
EMC

Spurious Radiated Emissions

Work Order:	PROS0109	Date:	06/29/11	
Project:	None	Temperature:	22.41	
Job Site:	OC10	Humidity:	41.1	
Serial Number:	09435H1000039	Barometric Pres.:	1019.2	
				Tested by: Jaemi Suh
EUT:	WMIA-199NI			
Configuration:	2			
Customer:	ProSoft Technology, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Transmitting at 802.11n			
Deviations:	No deviations.			
Comments:	Power Level set to 15. Z-Axis. 40MHz			

Test Specifications
FCC 15.247:2011Test Method
ANSI C63.10:2009

Run #	4	Test Distance (m)	3	Antenna Height(s)	1-4m	Results	Pass
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Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
23021.810	31.5	2.5	1.0	0.0	3.0	0.0	Horz	AV	0.0	34.0	54.0	-20.0	Channel 149, MCS15
23020.270	31.3	2.5	1.0	0.0	3.0	0.0	Vert	AV	0.0	33.8	54.0	-20.2	Channel 149, MCS15
23020.860	45.2	2.5	1.0	0.0	3.0	0.0	Horz	PK	0.0	47.7	74.0	-26.3	Channel 149, MCS15
23019.450	44.2	2.5	1.0	0.0	3.0	0.0	Vert	PK	0.0	46.7	74.0	-27.3	Channel 149, MCS15

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

MODES OF OPERATION

Continuous Transmit

POWER SETTINGS INVESTIGATED

120VAC/60Hz

CONFIGURATIONS INVESTIGATED

PROS0109 - 2

SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
LISN	Solar	9252-50-R-24-BNC	LIC	4/26/2011	12 mo
LISN	Solar	9252-50-24-BNC	LIA	6/13/2011	12 mo
Attenuator	Pasternack	6N10W-20	AWC	3/2/2011	12 mo
High Pass Filter	TTE	H97-100K-50-720B	HFP	3/8/2010	24 mo
OC06 Cables	N/A	CE Cables	OCM	4/7/2011	12 mo
Receiver	Rohde & Schwarz	ESCI	ARF	4/1/2011	12 mo

MEASUREMENT BANDWIDTHS

Frequency Range	Peak Data	Quasi-Peak Data	Average Data
(MHz)	(kHz)	(kHz)	(kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

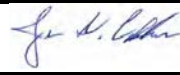
Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

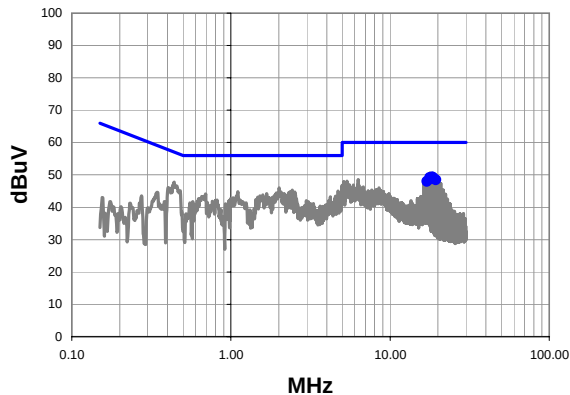
A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

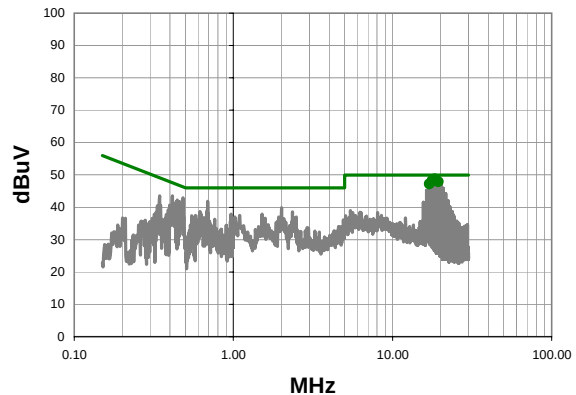
Using the mode of operation and configuration noted within this report, conducted emissions tests were performed. The frequency range investigated (scanned), is also noted in this report. Conducted power line measurements are made, unless otherwise specified, over the frequency range from 150 kHz to 30 MHz to determine the line-to-ground radio-noise voltage that is conducted from the EUT power-input terminals that are directly (or indirectly via separate transformer or power supplies) connected to a public power network. Equipment is tested with power cords that are normally used or that have electrical or shielding characteristics that are the same as those cords normally used. Typically those measurements are made using a LISN (Line Impedance Stabilization Network), the 50ohm measuring port is terminated by a 50ohm EMI meter or a 50ohm resistive load. All 50ohm measuring ports of the LISN are terminated by 50ohm.

Work Order:	PROS0109	Date:	07/06/11	
Project:	None	Temperature:	22.41	
Job Site:	OC06	Humidity:	41.1	
Serial Number:	09435H1000039	Barometric Pres.:	1019.2	Tested by: Johnny Candelas
EUT:	WMIA-199NI			
Configuration:	2			
Customer:	ProSoft Technology, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuous Transmit			
Deviations:	No deviations.			
Comments:	802.11g, Ch 1 - 2412 MHz, 6Mbps. Phihong PSC20R-120 power supply, ferrite (0443164151) 2 loops on power cable by EUT			
Test Specifications FCC 15.207:2011		Class B		Test Method ANSI C63.10:2009
Run #	1	Line:	High Line	Ext. Attenuation: 20
Results				Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit

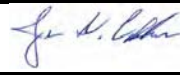


Quasi Peak Data - vs - Quasi Peak Limit

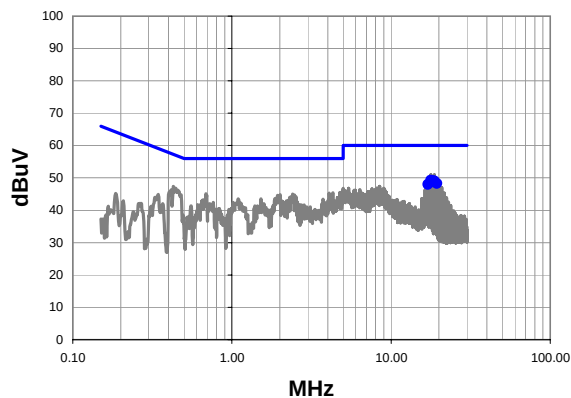
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.482	28.5	20.9	49.4	60.0	-10.6
17.770	28.3	20.9	49.2	60.0	-10.8
18.720	28.2	20.9	49.1	60.0	-10.9
18.010	27.9	20.9	48.8	60.0	-11.2
19.430	27.5	21.0	48.5	60.0	-11.5
17.060	27.1	20.8	47.9	60.0	-12.1

Average Data - vs - Average Limit

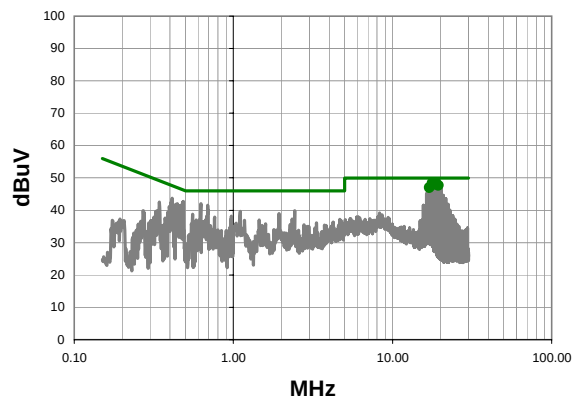
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.482	27.9	20.9	48.8	50.0	-1.2
18.720	27.7	20.9	48.6	50.0	-1.4
17.770	27.4	20.9	48.3	50.0	-1.7
18.010	27.2	20.9	48.1	50.0	-1.9
19.430	26.9	21.0	47.9	50.0	-2.1
17.060	26.3	20.8	47.1	50.0	-2.9

Work Order:	PROS0109	Date:	07/06/11	
Project:	None	Temperature:	22.41	
Job Site:	OC06	Humidity:	41.1	
Serial Number:	09435H1000039	Barometric Pres.:	1019.2	Tested by: Johnny Candelas
EUT:	WMIA-199NI			
Configuration:	2			
Customer:	ProSoft Technology, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuous Transmit			
Deviations:	No deviations.			
Comments:	802.11g, Ch 1 - 2412 MHz, 6Mbps. Phihong PSC20R-120 power supply, ferrite (0443164151) 2 loops on power cable by EUT			
Test Specifications FCC 15.207:2011		Class B		Test Method ANSI C63.10:2009
Run #	2	Line:	Neutral	Ext. Attenuation: 20
Results				Pass

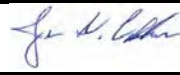
Quasi Peak Data - vs - Quasi Peak Limit



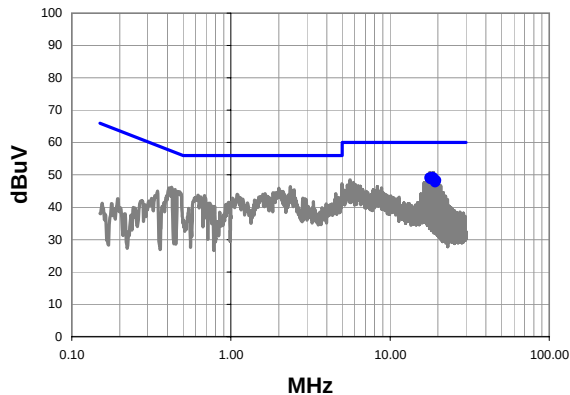
Average Data - vs - Average Limit



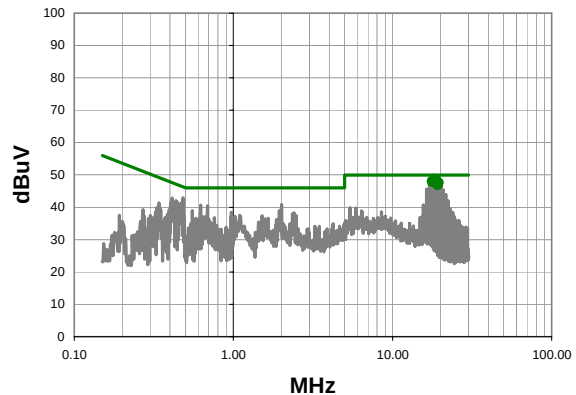
Quasi Peak Data - vs - Quasi Peak Limit						Average Data - vs - Average Limit					
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)	Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
17.770	28.4	20.9	49.3	60.0	-10.7	18.720	27.6	20.9	48.5	50.0	-1.5
18.720	28.2	20.9	49.1	60.0	-10.9	18.482	27.5	20.9	48.4	50.0	-1.6
18.482	28.2	20.9	49.1	60.0	-10.9	17.770	27.5	20.9	48.4	50.0	-1.6
18.010	27.9	20.9	48.8	60.0	-11.2	18.010	27.1	20.9	48.0	50.0	-2.0
19.432	27.3	21.0	48.3	60.0	-11.7	19.432	26.7	21.0	47.7	50.0	-2.3
17.064	27.1	20.8	47.9	60.0	-12.1	17.064	26.1	20.8	46.9	50.0	-3.1

Work Order:	PROS0109	Date:	07/06/11	
Project:	None	Temperature:	22.41	
Job Site:	OC06	Humidity:	41.1	
Serial Number:	09435H1000039	Barometric Pres.:	1019.2	Tested by: Johnny Candelas
EUT:	WMIA-199NI			
Configuration:	2			
Customer:	ProSoft Technology, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuous Transmit			
Deviations:	No deviations.			
Comments:	802.11g, Ch 6 - 2437 MHz, 6Mbps. Phihong PSC20R-120 power supply, ferrite (0443164151) 2 loops on power cable by EUT			
Test Specifications FCC 15.207:2011		Class B		Test Method ANSI C63.10:2009
Run #	3	Line:	High Line	Ext. Attenuation: 20
Results				Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit

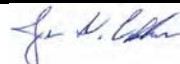


Quasi Peak Data - vs - Quasi Peak Limit

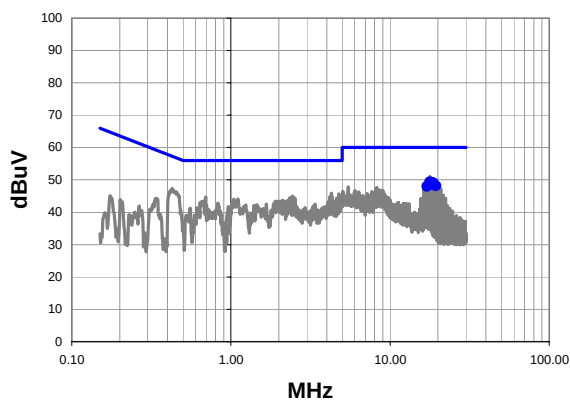
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.484	28.4	20.9	49.3	60.0	-10.7
18.720	28.2	20.9	49.1	60.0	-10.9
17.774	28.2	20.9	49.1	60.0	-10.9
18.010	27.9	20.9	48.8	60.0	-11.2
19.428	27.3	21.0	48.3	60.0	-11.7
19.196	26.8	21.0	47.8	60.0	-12.2

Average Data - vs - Average Limit

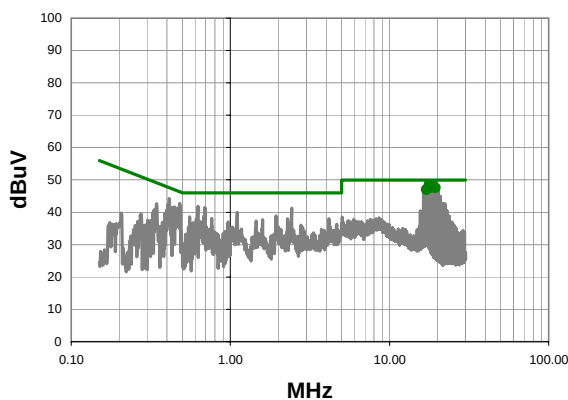
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.484	27.8	20.9	48.7	50.0	-1.3
18.720	27.6	20.9	48.5	50.0	-1.5
17.774	27.1	20.9	48.0	50.0	-2.0
18.010	27.1	20.9	48.0	50.0	-2.0
19.428	26.6	21.0	47.6	50.0	-2.4
19.196	26.0	21.0	47.0	50.0	-3.0

Work Order:	PROS0109	Date:	07/06/11	
Project:	None	Temperature:	22.41	
Job Site:	OC06	Humidity:	41.1	
Serial Number:	09435H1000039	Barometric Pres.:	1019.2	Tested by: Johnny Candelas
EUT:	WMIA-199NI			
Configuration:	2			
Customer:	ProSoft Technology, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuous Transmit			
Deviations:	No deviations.			
Comments:	802.11g, Ch 6 - 2437 MHz, 6Mbps. Phihong PSC20R-120 power supply, ferrite (0443164151) 2 loops on power cable by EUT			
Test Specifications FCC 15.207:2011		Class B		Test Method ANSI C63.10:2009
Run #	4	Line:	Neutral	Ext. Attenuation: 20
Results				Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit

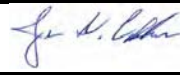


Quasi Peak Data - vs - Quasi Peak Limit

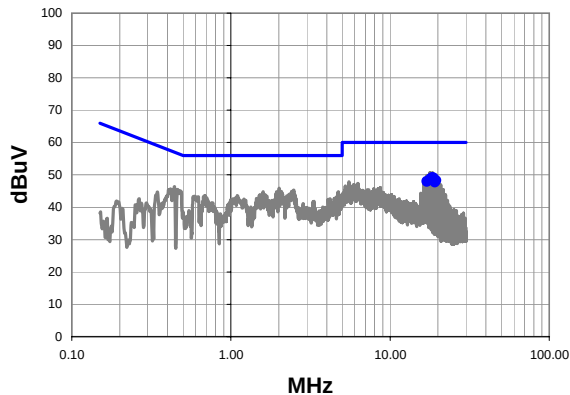
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
17.770	28.5	20.9	49.4	60.0	-10.6
18.484	28.3	20.9	49.2	60.0	-10.8
18.720	28.2	20.9	49.1	60.0	-10.9
18.006	27.7	20.9	48.6	60.0	-11.4
19.430	27.2	21.0	48.2	60.0	-11.8
17.060	27.1	20.8	47.9	60.0	-12.1

Average Data - vs - Average Limit

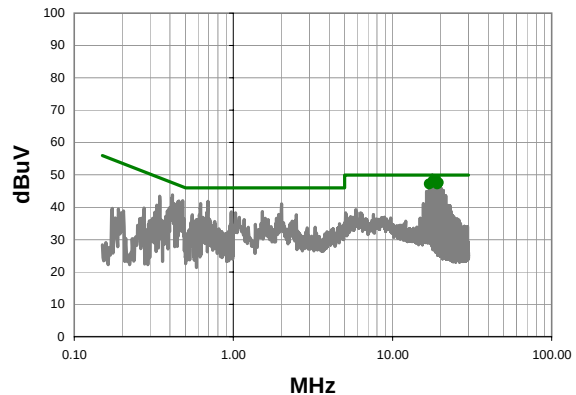
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
17.770	27.7	20.9	48.6	50.0	-1.4
18.484	27.6	20.9	48.5	50.0	-1.5
18.720	27.5	20.9	48.4	50.0	-1.6
18.006	26.7	20.9	47.6	50.0	-2.4
19.430	26.6	21.0	47.6	50.0	-2.4
17.060	26.1	20.8	46.9	50.0	-3.1

Work Order:	PROS0109	Date:	07/06/11	
Project:	None	Temperature:	22.41	
Job Site:	OC06	Humidity:	41.1	
Serial Number:	09435H1000039	Barometric Pres.:	1019.2	Tested by: Johnny Candelas
EUT:	WMIA-199NI			
Configuration:	2			
Customer:	ProSoft Technology, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuous Transmit			
Deviations:	No deviations.			
Comments:	802.11g, Ch 11 - 2462 MHz, 6Mbps. Phihong PSC20R-120 power supply, ferrite (0443164151) 2 loops on power cable by EUT			
Test Specifications FCC 15.207:2011		Class B		Test Method ANSI C63.10:2009
Run #	5	Line:	High Line	Ext. Attenuation: 20
Results				Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit

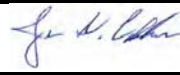


Quasi Peak Data - vs - Quasi Peak Limit

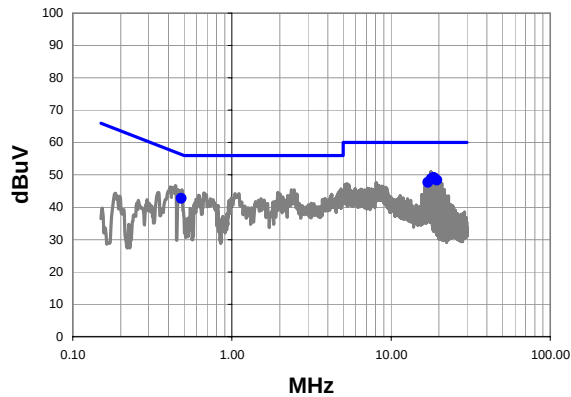
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.484	28.3	20.9	49.2	60.0	-10.8
18.720	28.2	20.9	49.1	60.0	-10.9
18.006	27.9	20.9	48.8	60.0	-11.2
19.432	27.3	21.0	48.3	60.0	-11.7
17.060	27.1	20.8	47.9	60.0	-12.1
19.192	26.8	21.0	47.8	60.0	-12.2

Average Data - vs - Average Limit

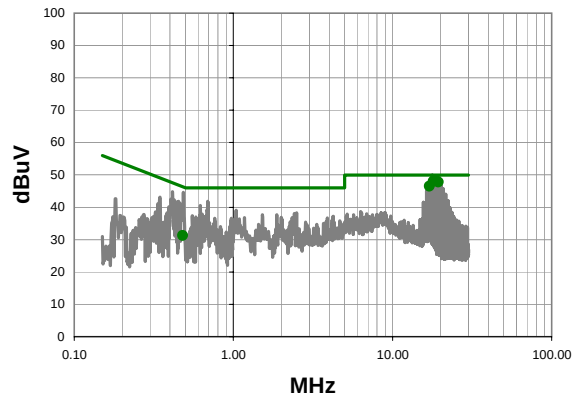
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.484	27.7	20.9	48.6	50.0	-1.4
18.720	27.6	20.9	48.5	50.0	-1.5
18.006	27.3	20.9	48.2	50.0	-1.8
19.432	26.6	21.0	47.6	50.0	-2.4
19.192	26.2	21.0	47.2	50.0	-2.8
17.060	26.3	20.8	47.1	50.0	-2.9

Work Order:	PROS0109	Date:	07/06/11	
Project:	None	Temperature:	22.41	
Job Site:	OC06	Humidity:	41.1	
Serial Number:	09435H1000039	Barometric Pres.:	1019.2	Tested by: Johnny Candelas
EUT:	WMIA-199NI			
Configuration:	2			
Customer:	ProSoft Technology, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuous Transmit			
Deviations:	No deviations.			
Comments:	802.11g, Ch 11 - 2462 MHz, 6Mbps. Phihong PSC20R-120 power supply, ferrite (0443164151) 2 loops on power cable by EUT			
Test Specifications FCC 15.207:2011		Class B		Test Method ANSI C63.10:2009
Run #	6	Line:	Neutral	Ext. Attenuation: 20
Results				Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

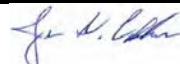
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.480	28.3	20.9	49.2	60.0	-10.8
18.720	28.2	20.9	49.1	60.0	-10.9
18.010	28.0	20.9	48.9	60.0	-11.1
19.430	27.4	21.0	48.4	60.0	-11.6
17.064	26.8	20.8	47.6	60.0	-12.4
0.481	22.6	20.1	42.7	56.3	-13.6

Average Data - vs - Average Limit

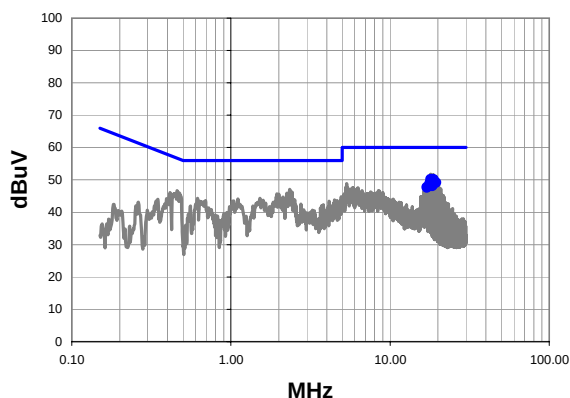
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.480	27.6	20.9	48.5	50.0	-1.5
18.720	27.5	20.9	48.4	50.0	-1.6
18.010	27.1	20.9	48.0	50.0	-2.0
19.430	26.8	21.0	47.8	50.0	-2.2
17.064	25.6	20.8	46.4	50.0	-3.6
0.481	11.2	20.1	31.3	46.3	-15.0

EMC

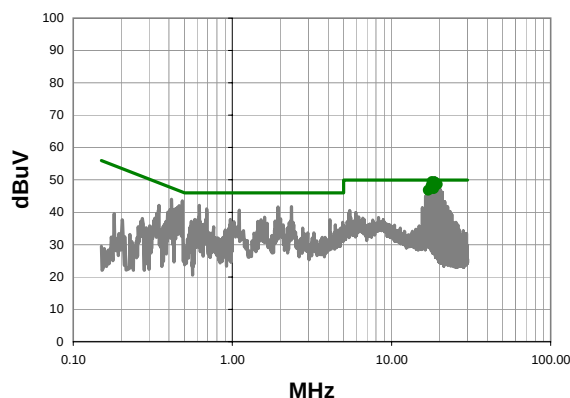
Powerline Conducted Emissions

Work Order:	PROS0109	Date:	07/06/11	
Project:	None	Temperature:	22.41	
Job Site:	OC06	Humidity:	41.1	
Serial Number:	09435H1000039	Barometric Pres.:	1019.2	Tested by: Johnny Candelas
EUT:	WMIA-199NI			
Configuration:	2			
Customer:	ProSoft Technology, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuous Transmit			
Deviations:	No deviations.			
Comments:	802.11n (40MHz), Ch 1 - 2422 MHz, MCS0. Phihong PSC20R-120 power supply, ferrite (0443164151) 2 loops on power cable by EUT			
Test Specifications FCC 15.207:2011		Class B		Test Method ANSI C63.10:2009
Run #	7	Line:	High Line	Ext. Attenuation: 20
Results				Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit

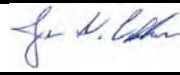


Quasi Peak Data - vs - Quasi Peak Limit

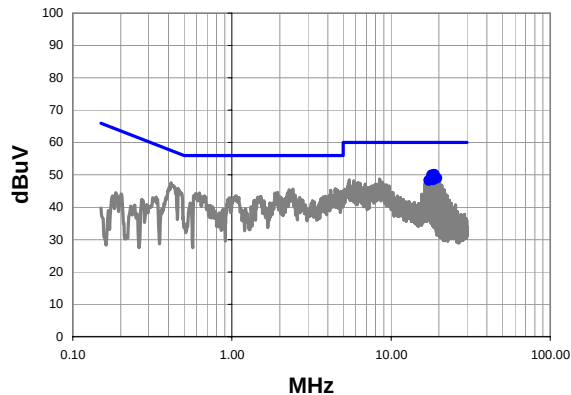
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.720	29.2	20.9	50.1	60.0	-9.9
18.010	29.2	20.9	50.1	60.0	-9.9
19.430	28.2	21.0	49.2	60.0	-10.8
17.770	28.0	20.9	48.9	60.0	-11.1
18.480	27.3	20.9	48.2	60.0	-11.8
17.060	26.8	20.8	47.6	60.0	-12.4

Average Data - vs - Average Limit

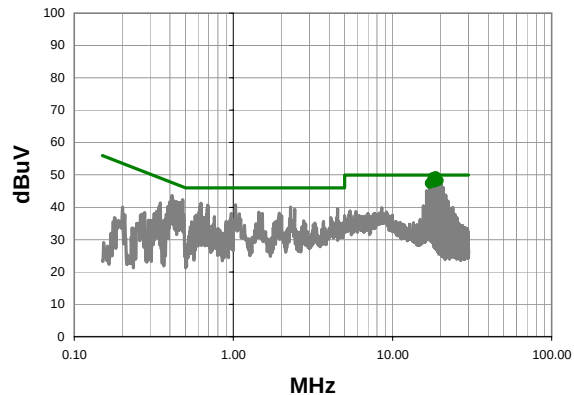
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.010	28.6	20.9	49.5	50.0	-0.5
18.720	28.5	20.9	49.4	50.0	-0.6
19.430	27.6	21.0	48.6	50.0	-1.4
17.770	27.3	20.9	48.2	50.0	-1.8
18.480	26.4	20.9	47.3	50.0	-2.7
17.060	25.9	20.8	46.7	50.0	-3.3

Work Order:	PROS0109	Date:	07/06/11	
Project:	None	Temperature:	22.41	
Job Site:	OC06	Humidity:	41.1	
Serial Number:	09435H1000039	Barometric Pres.:	1019.2	Tested by: Johnny Candelas
EUT:	WMIA-199NI			
Configuration:	2			
Customer:	ProSoft Technology, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuous Transmit			
Deviations:	No deviations.			
Comments:	802.11n (40MHz), Ch 1 - 2422 MHz, MCS0. Phihong PSC20R-120 power supply, ferrite (0443164151) 2 loops on power cable by EUT			
Test Specifications FCC 15.207:2011		Class B		Test Method ANSI C63.10:2009
Run #	8	Line:	Neutral	Ext. Attenuation: 20
Results				Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

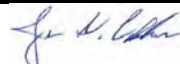
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.718	29.2	20.9	50.1	60.0	-9.9
18.010	29.1	20.9	50.0	60.0	-10.0
19.432	28.0	21.0	49.0	60.0	-11.0
17.770	27.9	20.9	48.8	60.0	-11.2
18.482	27.6	20.9	48.5	60.0	-11.5
17.296	27.4	20.9	48.3	60.0	-11.7

Average Data - vs - Average Limit

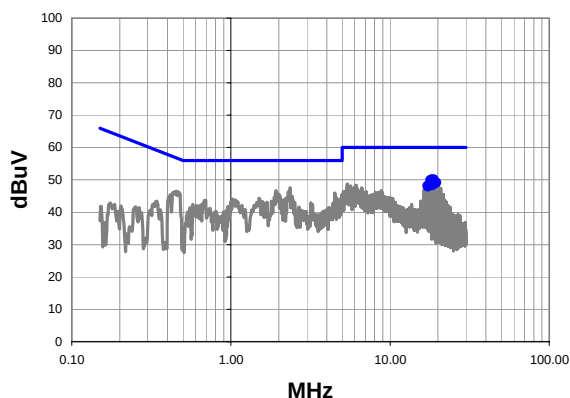
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.718	28.6	20.9	49.5	50.0	-0.5
18.010	28.3	20.9	49.2	50.0	-0.8
19.432	27.2	21.0	48.2	50.0	-1.8
17.770	27.2	20.9	48.1	50.0	-1.9
18.482	26.9	20.9	47.8	50.0	-2.2
17.296	26.5	20.9	47.4	50.0	-2.6

EMC

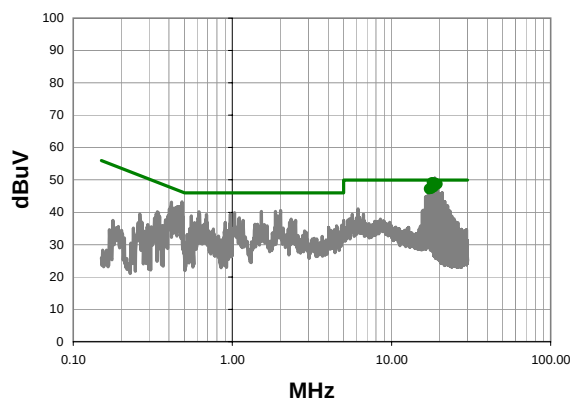
Powerline Conducted Emissions

Work Order:	PROS0109	Date:	07/06/11	
Project:	None	Temperature:	22.41	
Job Site:	OC06	Humidity:	41.1	
Serial Number:	09435H1000039	Barometric Pres.:	1019.2	Tested by: Johnny Candelas
EUT:	WMIA-199NI			
Configuration:	2			
Customer:	ProSoft Technology, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuous Transmit			
Deviations:	No deviations.			
Comments:	802.11n (40MHz), Ch 6 - 2437 MHz, MCS0. Phihong PSC20R-120 power supply, ferrite (0443164151) 2 loops on power cable by EUT			
Test Specifications FCC 15.207:2011		Class B		Test Method ANSI C63.10:2009
Run #	9	Line:	High Line	Ext. Attenuation: 20
Results				Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit

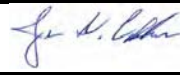


Quasi Peak Data - vs - Quasi Peak Limit

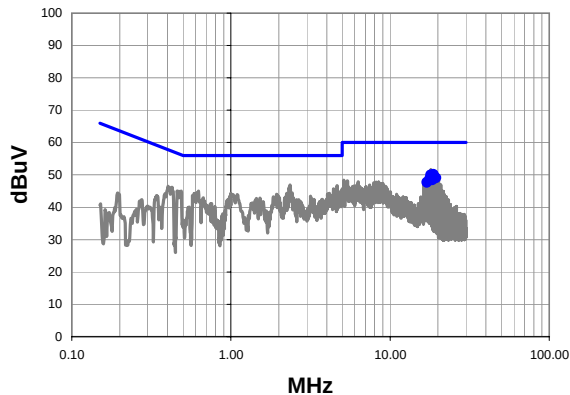
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.716	29.1	20.9	50.0	60.0	-10.0
18.006	29.0	20.9	49.9	60.0	-10.1
19.430	28.2	21.0	49.2	60.0	-10.8
17.770	27.6	20.9	48.5	60.0	-11.5
18.484	27.6	20.9	48.5	60.0	-11.5
17.296	27.2	20.9	48.1	60.0	-11.9

Average Data - vs - Average Limit

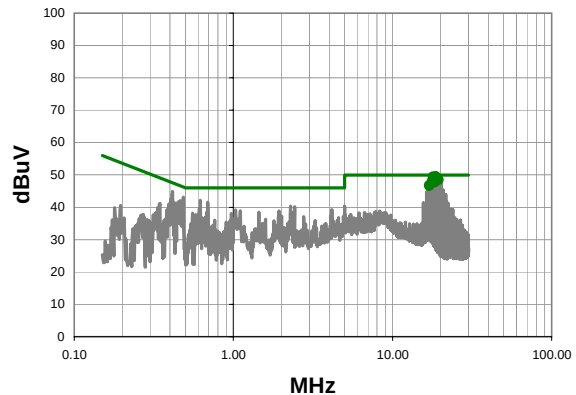
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.006	28.3	20.9	49.2	50.0	-0.8
18.716	28.2	20.9	49.1	50.0	-0.9
19.430	27.7	21.0	48.7	50.0	-1.3
18.484	26.9	20.9	47.8	50.0	-2.2
17.770	26.4	20.9	47.3	50.0	-2.7
17.296	26.3	20.9	47.2	50.0	-2.8

Work Order:	PROS0109	Date:	07/06/11		
Project:	None	Temperature:	22.41		
Job Site:	OC06	Humidity:	41.1		
Serial Number:	09435H1000039	Barometric Pres.:	1019.2	Tested by: Johnny Candelas	
EUT:	WMIA-199NI				
Configuration:	2				
Customer:	ProSoft Technology, Inc.				
Attendees:	None				
EUT Power:	120VAC/60Hz				
Operating Mode:	Continuous Transmit				
Deviations:	No deviations.				
Comments:	802.11n (40MHz), Ch 6 - 2437 MHz, MCS0. Phihong PSC20R-120 power supply, ferrite (0443164151) 2 loops on power cable by EUT				
Test Specifications FCC 15.207:2011		Class B		Test Method ANSI C63.10:2009	
Run #	10	Line:	Neutral	Ext. Attenuation: 20	Results Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

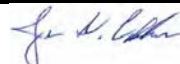
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.720	29.2	20.9	50.1	60.0	-9.9
18.006	29.1	20.9	50.0	60.0	-10.0
19.430	28.1	21.0	49.1	60.0	-10.9
17.774	27.9	20.9	48.8	60.0	-11.2
18.484	27.6	20.9	48.5	60.0	-11.5
17.060	26.8	20.8	47.6	60.0	-12.4

Average Data - vs - Average Limit

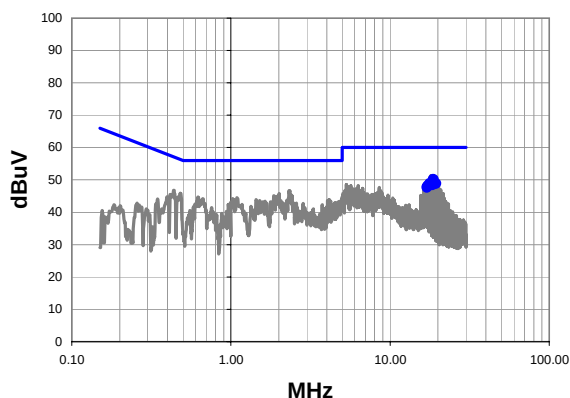
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.720	28.6	20.9	49.5	50.0	-0.5
18.006	28.5	20.9	49.4	50.0	-0.6
19.430	27.5	21.0	48.5	50.0	-1.5
17.774	27.1	20.9	48.0	50.0	-2.0
18.484	26.9	20.9	47.8	50.0	-2.2
17.060	25.8	20.8	46.6	50.0	-3.4

EMC

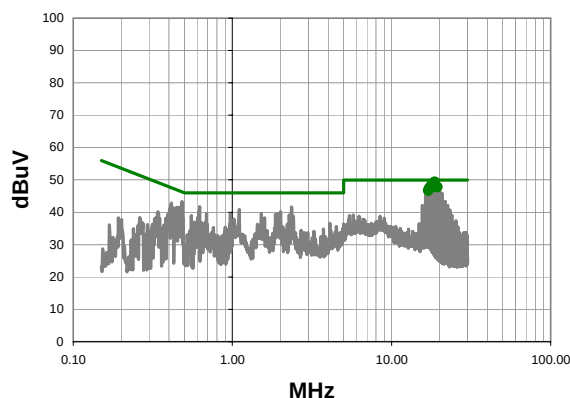
Powerline Conducted Emissions

Work Order:	PROS0109	Date:	07/06/11	
Project:	None	Temperature:	22.41	
Job Site:	OC06	Humidity:	41.1	
Serial Number:	09435H1000039	Barometric Pres.:	1019.2	Tested by: Johnny Candelas
EUT:	WMIA-199NI			
Configuration:	2			
Customer:	ProSoft Technology, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuous Transmit			
Deviations:	No deviations.			
Comments:	802.11n (40MHz), Ch 11 - 2452 MHz, MCS0. Phihong PSC20R-120 power supply, ferrite (0443164151) 2 loops on power cable by EUT			
Test Specifications FCC 15.207:2011		Class B		Test Method ANSI C63.10:2009
Run #	11	Line:	High Line	Ext. Attenuation: 20
Results				Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit

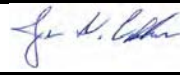


Quasi Peak Data - vs - Quasi Peak Limit

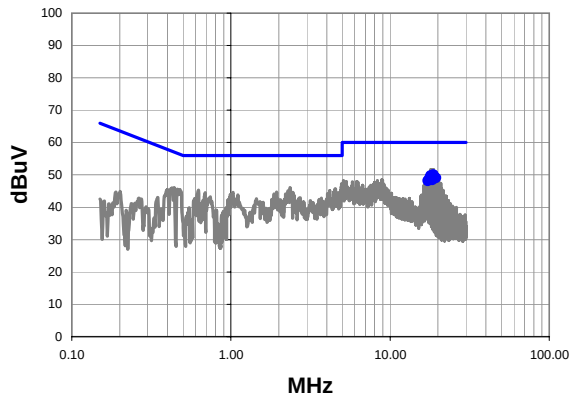
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.720	29.2	20.9	50.1	60.0	-9.9
17.770	28.0	20.9	48.9	60.0	-11.1
19.428	27.9	21.0	48.9	60.0	-11.1
18.482	27.6	20.9	48.5	60.0	-11.5
17.296	27.3	20.9	48.2	60.0	-11.8
17.060	26.8	20.8	47.6	60.0	-12.4

Average Data - vs - Average Limit

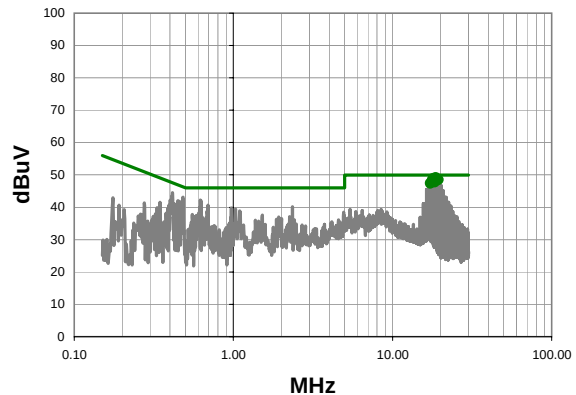
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.720	28.5	20.9	49.4	50.0	-0.6
17.770	27.3	20.9	48.2	50.0	-1.8
18.482	27.0	20.9	47.9	50.0	-2.1
19.428	26.8	21.0	47.8	50.0	-2.2
17.296	26.5	20.9	47.4	50.0	-2.6
17.060	25.8	20.8	46.6	50.0	-3.4

Work Order:	PROS0109	Date:	07/06/11	
Project:	None	Temperature:	22.41	
Job Site:	OC06	Humidity:	41.1	
Serial Number:	09435H1000039	Barometric Pres.:	1019.2	Tested by: Johnny Candelas
EUT:	WMIA-199NI			
Configuration:	2			
Customer:	ProSoft Technology, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuous Transmit			
Deviations:	No deviations.			
Comments:	802.11n (40MHz), Ch 11 - 2452 MHz, MCS0. Phihong PSC20R-120 power supply, ferrite (0443164151) 2 loops on power cable by EUT			
Test Specifications FCC 15.207:2011		Class B		Test Method ANSI C63.10:2009
Run #	12	Line:	Neutral	Ext. Attenuation: 20
Results				Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.716	29.1	20.9	50.0	60.0	-10.0
18.010	28.9	20.9	49.8	60.0	-10.2
17.770	28.2	20.9	49.1	60.0	-10.9
19.428	28.1	21.0	49.1	60.0	-10.9
18.480	27.6	20.9	48.5	60.0	-11.5
17.296	27.3	20.9	48.2	60.0	-11.8

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.716	28.3	20.9	49.2	50.0	-0.8
18.010	28.0	20.9	48.9	50.0	-1.1
19.428	27.5	21.0	48.5	50.0	-1.5
17.770	27.4	20.9	48.3	50.0	-1.7
18.480	26.9	20.9	47.8	50.0	-2.2
17.296	26.5	20.9	47.4	50.0	-2.6

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

MODES OF OPERATION

Continuous Transmit

POWER SETTINGS INVESTIGATED

120VAC/60Hz

CONFIGURATIONS INVESTIGATED

PROS0109 - 2

SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
LISN	Solar	9252-50-R-24-BNC	LIC	4/26/2011	12 mo
LISN	Solar	9252-50-24-BNC	LIA	6/13/2011	12 mo
Attenuator	Pasternack	6N10W-20	AWC	3/2/2011	12 mo
High Pass Filter	TTE	H97-100K-50-720B	HFP	3/8/2010	24 mo
OC06 Cables	N/A	CE Cables	OCM	4/7/2011	12 mo
Receiver	Rohde & Schwarz	ESCI	ARF	4/1/2011	12 mo

MEASUREMENT BANDWIDTHS

Frequency Range	Peak Data	Quasi-Peak Data	Average Data
(MHz)	(kHz)	(kHz)	(kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

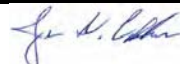
A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

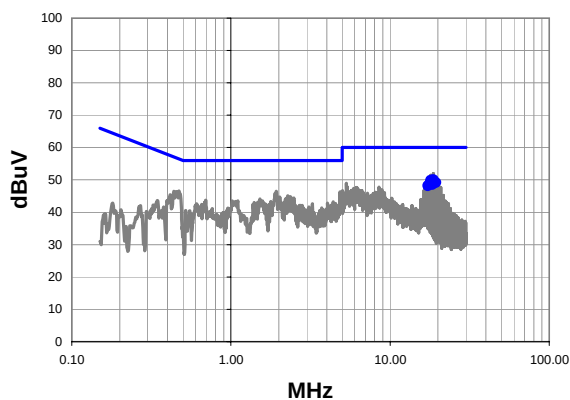
Using the mode of operation and configuration noted within this report, conducted emissions tests were performed. The frequency range investigated (scanned), is also noted in this report. Conducted power line measurements are made, unless otherwise specified, over the frequency range from 150 kHz to 30 MHz to determine the line-to-ground radio-noise voltage that is conducted from the EUT power-input terminals that are directly (or indirectly via separate transformer or power supplies) connected to a public power network. Equipment is tested with power cords that are normally used or that have electrical or shielding characteristics that are the same as those cords normally used. Typically those measurements are made using a LISN (Line Impedance Stabilization Network), the 50ohm measuring port is terminated by a 50ohm EMI meter or a 50ohm resistive load. All 50ohm measuring ports of the LISN are terminated by 50ohm.

EMC

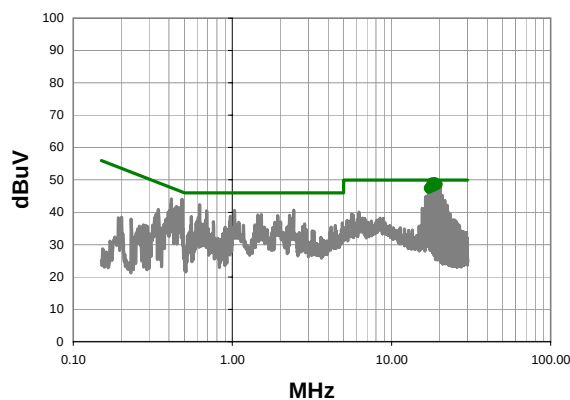
Powerline Conducted Emissions

Work Order:	PROS0109	Date:	07/06/11	
Project:	None	Temperature:	22.41	
Job Site:	OC06	Humidity:	41.1	
Serial Number:	09435H1000039	Barometric Pres.:	1019.2	Tested by: Johnny Candelas
EUT:	WMIA-199NI			
Configuration:	2			
Customer:	ProSoft Technology, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuous Transmit			
Deviations:	No deviations.			
Comments:	802.11a, Ch 149 - 5745 MHz, 6Mbps. Pihong PSC20R-120 power supply, ferrite (0443164151) 2 loops on power cable by EUT			
Test Specifications FCC 15.207:2011		Class B		Test Method ANSI C63.10:2009
Run #	1	Line:	High Line	Ext. Attenuation: 20
Results				Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit

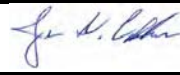


Quasi Peak Data - vs - Quasi Peak Limit

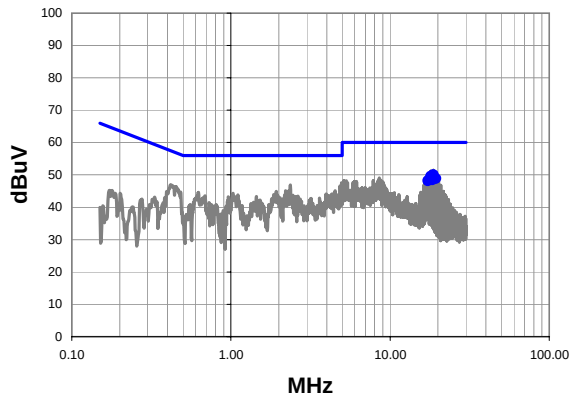
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.720	29.1	20.9	50.0	60.0	-10.0
18.006	29.0	20.9	49.9	60.0	-10.1
19.430	28.2	21.0	49.2	60.0	-10.8
17.770	27.9	20.9	48.8	60.0	-11.2
18.484	27.7	20.9	48.6	60.0	-11.4
17.296	27.3	20.9	48.2	60.0	-11.8

Average Data - vs - Average Limit

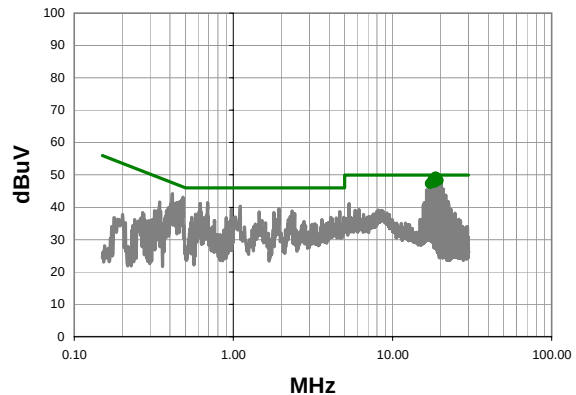
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.720	28.3	20.9	49.2	50.0	-0.8
18.006	28.2	20.9	49.1	50.0	-0.9
19.430	27.6	21.0	48.6	50.0	-1.4
17.770	27.2	20.9	48.1	50.0	-1.9
18.484	27.1	20.9	48.0	50.0	-2.0
17.296	26.5	20.9	47.4	50.0	-2.6

Work Order:	PROS0109	Date:	07/06/11	
Project:	None	Temperature:	22.41	
Job Site:	OC06	Humidity:	41.1	
Serial Number:	09435H1000039	Barometric Pres.:	1019.2	Tested by: Johnny Candelas
EUT:	WMIA-199NI			
Configuration:	2			
Customer:	ProSoft Technology, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuous Transmit			
Deviations:	No deviations.			
Comments:	802.11a, Ch 149 - 5745 MHz, 6Mbps. Pihong PSC20R-120 power supply, ferrite (0443164151) 2 loops on power cable by EUT			
Test Specifications FCC 15.207:2011		Class B		Test Method ANSI C63.10:2009
Run #	2	Line:	Neutral	Ext. Attenuation: 20
Results				Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit

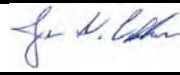


Quasi Peak Data - vs - Quasi Peak Limit

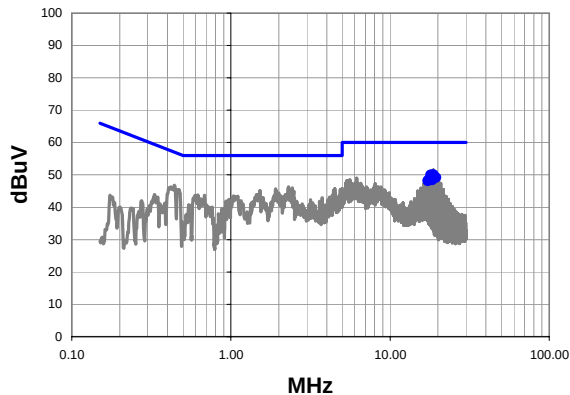
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.720	29.1	20.9	50.0	60.0	-10.0
18.010	28.7	20.9	49.6	60.0	-10.4
19.432	27.9	21.0	48.9	60.0	-11.1
17.774	27.8	20.9	48.7	60.0	-11.3
18.482	27.6	20.9	48.5	60.0	-11.5
17.296	27.3	20.9	48.2	60.0	-11.8

Average Data - vs - Average Limit

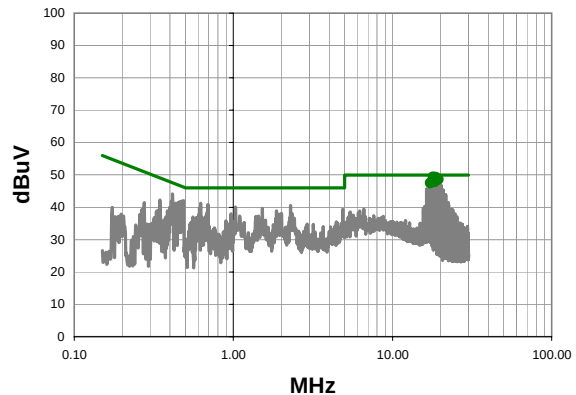
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.720	28.5	20.9	49.4	50.0	-0.6
18.010	27.8	20.9	48.7	50.0	-1.3
19.432	27.3	21.0	48.3	50.0	-1.7
17.774	27.0	20.9	47.9	50.0	-2.1
18.482	26.8	20.9	47.7	50.0	-2.3
17.296	26.4	20.9	47.3	50.0	-2.7

Work Order:	PROS0109	Date:	07/06/11		
Project:	None	Temperature:	22.41		
Job Site:	OC06	Humidity:	41.1		
Serial Number:	09435H1000039	Barometric Pres.:	1019.2	Tested by: Johnny Candelas	
EUT:	WMIA-199NI				
Configuration:	2				
Customer:	ProSoft Technology, Inc.				
Attendees:	None				
EUT Power:	120VAC/60Hz				
Operating Mode:	Continuous Transmit				
Deviations:	No deviations.				
Comments:	802.11a, Ch 157 - 5785 MHz, 6Mbps. Pihong PSC20R-120 power supply, ferrite (0443164151) 2 loops on power cable by EUT				
Test Specifications FCC 15.207:2011		Class B		Test Method ANSI C63.10:2009	
Run #	3	Line:	High Line	Ext. Attenuation: 20	Results Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit

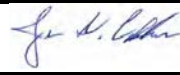


Quasi Peak Data - vs - Quasi Peak Limit

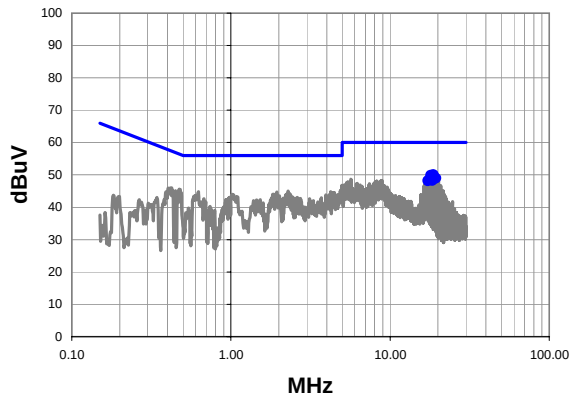
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.720	29.1	20.9	50.0	60.0	-10.0
18.006	29.1	20.9	50.0	60.0	-10.0
19.428	28.2	21.0	49.2	60.0	-10.8
17.774	27.9	20.9	48.8	60.0	-11.2
18.480	27.6	20.9	48.5	60.0	-11.5
17.296	27.3	20.9	48.2	60.0	-11.8

Average Data - vs - Average Limit

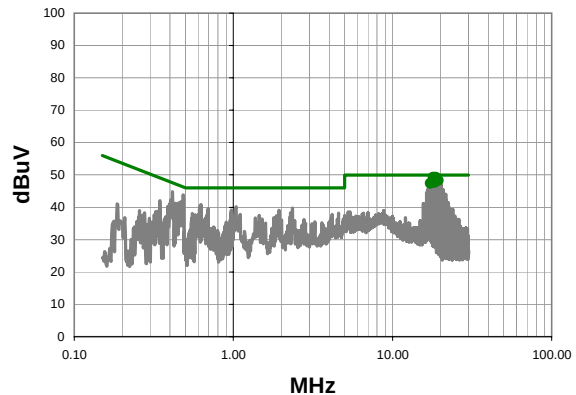
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.006	28.5	20.9	49.4	50.0	-0.6
18.720	28.4	20.9	49.3	50.0	-0.7
19.428	27.6	21.0	48.6	50.0	-1.4
17.774	27.1	20.9	48.0	50.0	-2.0
18.480	27.0	20.9	47.9	50.0	-2.1
17.296	26.6	20.9	47.5	50.0	-2.5

Work Order:	PROS0109	Date:	07/06/11		
Project:	None	Temperature:	22.41		
Job Site:	OC06	Humidity:	41.1		
Serial Number:	09435H1000039	Barometric Pres.:	1019.2	Tested by: Johnny Candelas	
EUT:	WMIA-199NI				
Configuration:	2				
Customer:	ProSoft Technology, Inc.				
Attendees:	None				
EUT Power:	120VAC/60Hz				
Operating Mode:	Continuous Transmit				
Deviations:	No deviations.				
Comments:	802.11a, Ch 157 - 5785 MHz, 6Mbps. Pihong PSC20R-120 power supply, ferrite (0443164151) 2 loops on power cable by EUT				
Test Specifications FCC 15.207:2011		Class B		Test Method ANSI C63.10:2009	
Run #	4	Line:	Neutral	Ext. Attenuation: 20	Results Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit

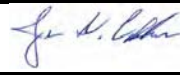


Quasi Peak Data - vs - Quasi Peak Limit

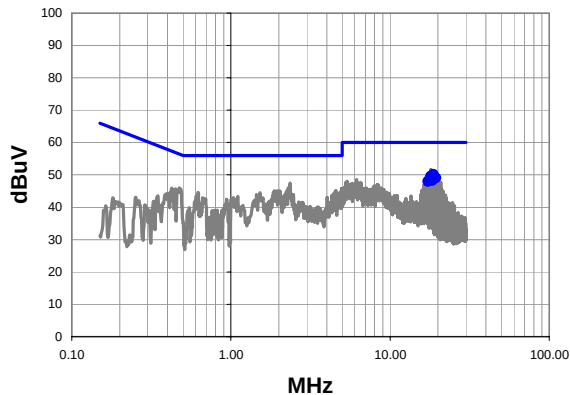
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.720	29.1	20.9	50.0	60.0	-10.0
18.006	29.0	20.9	49.9	60.0	-10.1
19.430	28.0	21.0	49.0	60.0	-11.0
17.770	27.7	20.9	48.6	60.0	-11.4
18.482	27.4	20.9	48.3	60.0	-11.7
17.296	27.3	20.9	48.2	60.0	-11.8

Average Data - vs - Average Limit

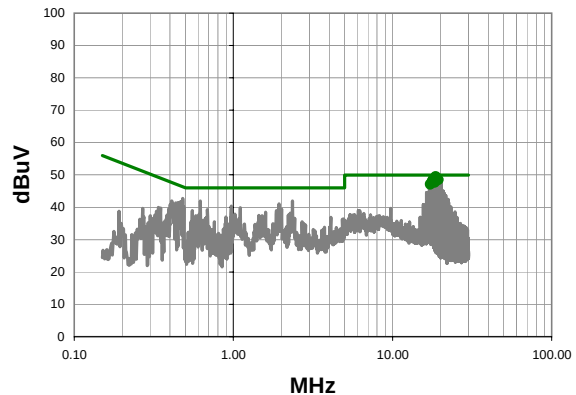
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.720	28.4	20.9	49.3	50.0	-0.7
18.006	28.4	20.9	49.3	50.0	-0.7
19.430	27.3	21.0	48.3	50.0	-1.7
17.770	26.8	20.9	47.7	50.0	-2.3
18.482	26.8	20.9	47.7	50.0	-2.3
17.296	26.5	20.9	47.4	50.0	-2.6

Work Order:	PROS0109	Date:	07/06/11	
Project:	None	Temperature:	22.41	
Job Site:	OC06	Humidity:	41.1	
Serial Number:	09435H1000039	Barometric Pres.:	1019.2	Tested by: Johnny Candelas
EUT:	WMIA-199NI			
Configuration:	2			
Customer:	ProSoft Technology, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuous Transmit			
Deviations:	No deviations.			
Comments:	802.11a, Ch 165 - 5825 MHz, 6Mbps. Pihong PSC20R-120 power supply, ferrite (0443164151) 2 loops on power cable by EUT			
Test Specifications FCC 15.207:2011		Class B		Test Method ANSI C63.10:2009
Run #	5	Line:	High Line	Ext. Attenuation: 20
Results				Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit

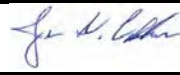


Quasi Peak Data - vs - Quasi Peak Limit

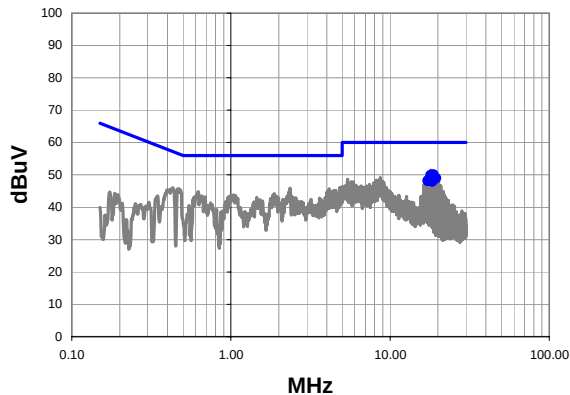
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.720	29.2	20.9	50.1	60.0	-9.9
18.010	28.7	20.9	49.6	60.0	-10.4
19.430	28.1	21.0	49.1	60.0	-10.9
17.770	27.8	20.9	48.7	60.0	-11.3
18.484	27.4	20.9	48.3	60.0	-11.7
17.296	27.1	20.9	48.0	60.0	-12.0

Average Data - vs - Average Limit

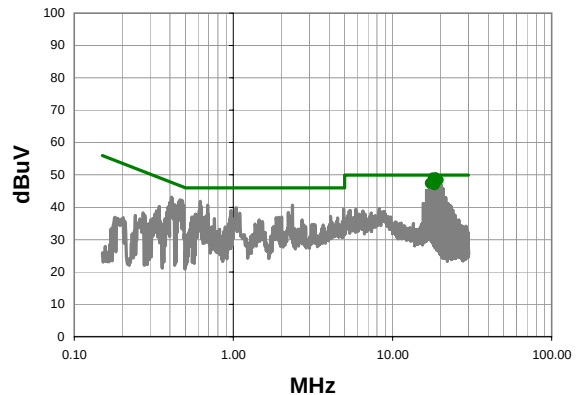
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.720	28.6	20.9	49.5	50.0	-0.5
18.010	27.7	20.9	48.6	50.0	-1.4
19.430	27.5	21.0	48.5	50.0	-1.5
17.770	27.1	20.9	48.0	50.0	-2.0
18.484	26.8	20.9	47.7	50.0	-2.3
17.296	26.2	20.9	47.1	50.0	-2.9

Work Order:	PROS0109	Date:	07/06/11	
Project:	None	Temperature:	22.41	
Job Site:	OC06	Humidity:	41.1	
Serial Number:	09435H1000039	Barometric Pres.:	1019.2	Tested by: Johnny Candelas
EUT:	WMIA-199NI			
Configuration:	2			
Customer:	ProSoft Technology, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuous Transmit			
Deviations:	No deviations.			
Comments:	802.11a, Ch 165 - 5825 MHz, 6Mbps. Pihong PSC20R-120 power supply, ferrite (0443164151) 2 loops on power cable by EUT			
Test Specifications FCC 15.207:2011		Class B		Test Method ANSI C63.10:2009
Run #	6	Line:	Neutral	Ext. Attenuation: 20
Results				Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit

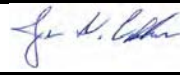


Quasi Peak Data - vs - Quasi Peak Limit

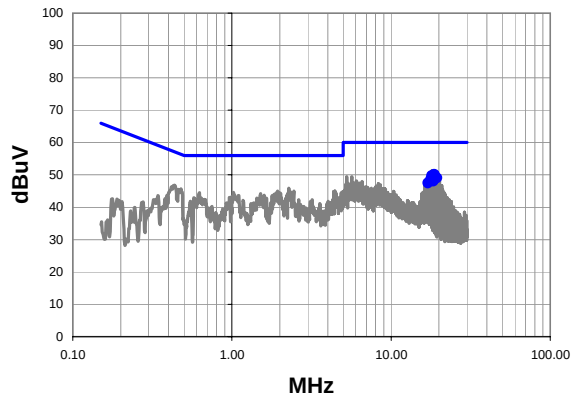
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.720	29.1	20.9	50.0	60.0	-10.0
18.010	29.0	20.9	49.9	60.0	-10.1
19.430	28.0	21.0	49.0	60.0	-11.0
17.770	27.7	20.9	48.6	60.0	-11.4
17.298	27.3	20.9	48.2	60.0	-11.8
18.484	27.1	20.9	48.0	60.0	-12.0

Average Data - vs - Average Limit

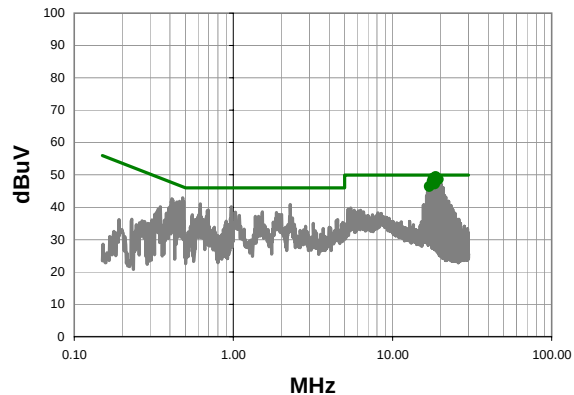
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.720	28.2	20.9	49.1	50.0	-0.9
18.010	28.2	20.9	49.1	50.0	-0.9
19.430	27.4	21.0	48.4	50.0	-1.6
17.770	26.8	20.9	47.7	50.0	-2.3
17.298	26.5	20.9	47.4	50.0	-2.6
18.484	26.0	20.9	46.9	50.0	-3.1

Work Order:	PROS0109	Date:	07/06/11	
Project:	None	Temperature:	22.41	
Job Site:	OC06	Humidity:	41.1	
Serial Number:	09435H1000039	Barometric Pres.:	1019.2	Tested by: Johnny Candelas
EUT:	WMIA-199NI			
Configuration:	2			
Customer:	ProSoft Technology, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuous Transmit			
Deviations:	No deviations.			
Comments:	802.11n (40MHz), Ch 149 - 5755 MHz, MCS0. Phihong PSC20R-120 power supply, ferrite (0443164151) 2 loops on power cable by EUT			
Test Specifications FCC 15.207:2011		Class B		Test Method ANSI C63.10:2009
Run #	7	Line:	High Line	Ext. Attenuation: 20
Results				Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit

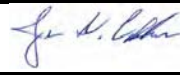


Quasi Peak Data - vs - Quasi Peak Limit

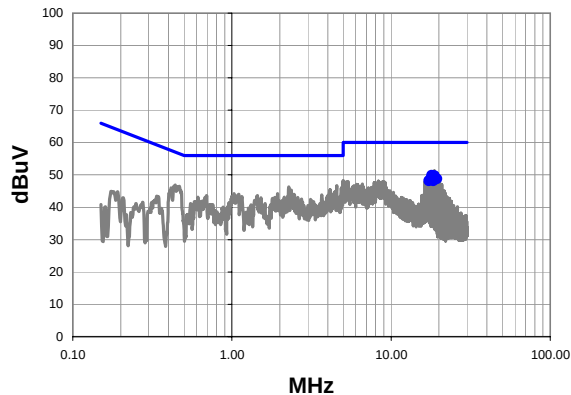
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.720	29.2	20.9	50.1	60.0	-9.9
18.010	28.9	20.9	49.8	60.0	-10.2
19.430	28.1	21.0	49.1	60.0	-10.9
17.770	27.8	20.9	48.7	60.0	-11.3
18.480	27.2	20.9	48.1	60.0	-11.9
17.060	26.6	20.8	47.4	60.0	-12.6

Average Data - vs - Average Limit

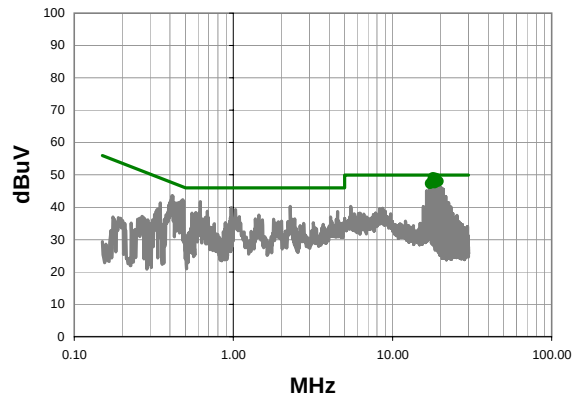
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.720	28.6	20.9	49.5	50.0	-0.5
18.010	28.1	20.9	49.0	50.0	-1.0
19.430	27.6	21.0	48.6	50.0	-1.4
17.770	27.1	20.9	48.0	50.0	-2.0
18.480	26.3	20.9	47.2	50.0	-2.8
17.060	25.5	20.8	46.3	50.0	-3.7

Work Order:	PROS0109	Date:	07/06/11	
Project:	None	Temperature:	22.41	
Job Site:	OC06	Humidity:	41.1	
Serial Number:	09435H1000039	Barometric Pres.:	1019.2	Tested by: Johnny Candelas
EUT:	WMIA-199NI			
Configuration:	2			
Customer:	ProSoft Technology, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuous Transmit			
Deviations:	No deviations.			
Comments:	802.11n (40MHz), Ch 149 - 5755 MHz, MCS0. Phihong PSC20R-120 power supply, ferrite (0443164151) 2 loops on power cable by EUT			
Test Specifications FCC 15.207:2011		Class B		Test Method ANSI C63.10:2009
Run #	8	Line:	Neutral	Ext. Attenuation: 20
Results				Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit

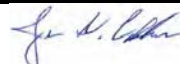


Quasi Peak Data - vs - Quasi Peak Limit

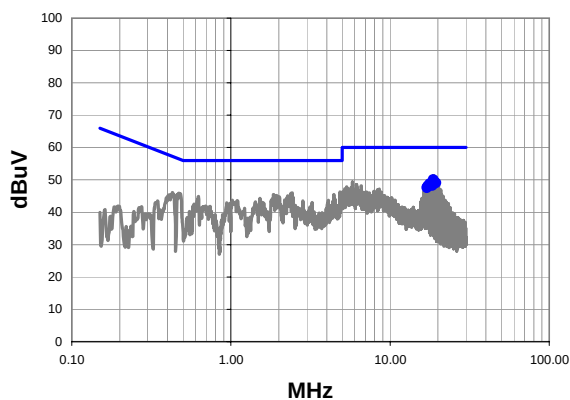
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.010	29.0	20.9	49.9	60.0	-10.1
18.716	28.9	20.9	49.8	60.0	-10.2
17.770	27.9	20.9	48.8	60.0	-11.2
19.430	27.8	21.0	48.8	60.0	-11.2
18.480	27.3	20.9	48.2	60.0	-11.8
17.298	27.3	20.9	48.2	60.0	-11.8

Average Data - vs - Average Limit

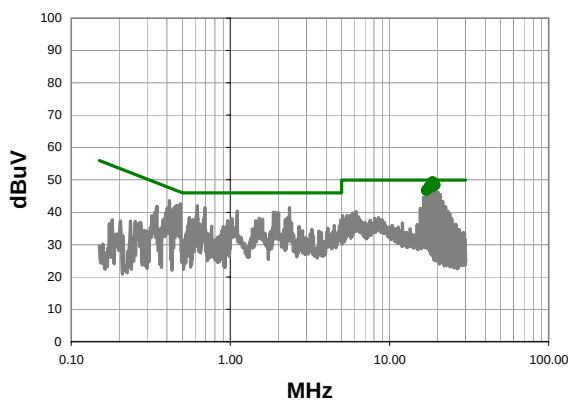
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.010	28.3	20.9	49.2	50.0	-0.8
18.716	28.1	20.9	49.0	50.0	-1.0
17.770	27.1	20.9	48.0	50.0	-2.0
19.430	27.0	21.0	48.0	50.0	-2.0
18.480	26.6	20.9	47.5	50.0	-2.5
17.298	26.4	20.9	47.3	50.0	-2.7

Work Order:	PROS0109	Date:	07/06/11	
Project:	None	Temperature:	22.41	
Job Site:	OC06	Humidity:	41.1	
Serial Number:	09435H1000039	Barometric Pres.:	1019.2	Tested by: Johnny Candelas
EUT:	WMIA-199NI			
Configuration:	2			
Customer:	ProSoft Technology, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuous Transmit			
Deviations:	No deviations.			
Comments:	802.11n (40MHz), Ch 165 - 5795 MHz, MCS0. Phihong PSC20R-120 power supply, ferrite (0443164151) 2 loops on power cable by EUT			
Test Specifications FCC 15.207:2011		Class B		Test Method ANSI C63.10:2009
Run #	9	Line:	High Line	Ext. Attenuation: 20
Results				Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit

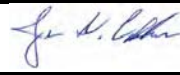


Quasi Peak Data - vs - Quasi Peak Limit

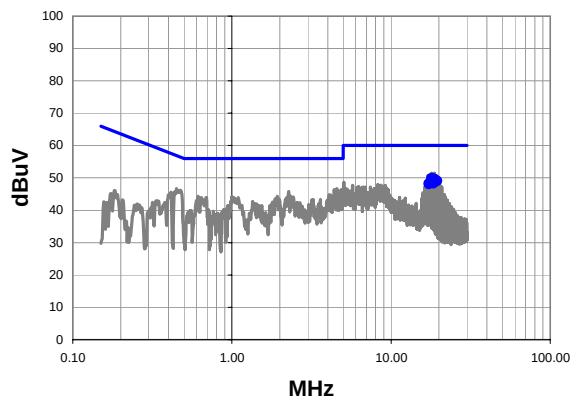
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.720	29.1	20.9	50.0	60.0	-10.0
19.428	28.1	21.0	49.1	60.0	-10.9
17.770	27.9	20.9	48.8	60.0	-11.2
18.480	27.4	20.9	48.3	60.0	-11.7
17.296	27.2	20.9	48.1	60.0	-11.9
17.060	26.7	20.8	47.5	60.0	-12.5

Average Data - vs - Average Limit

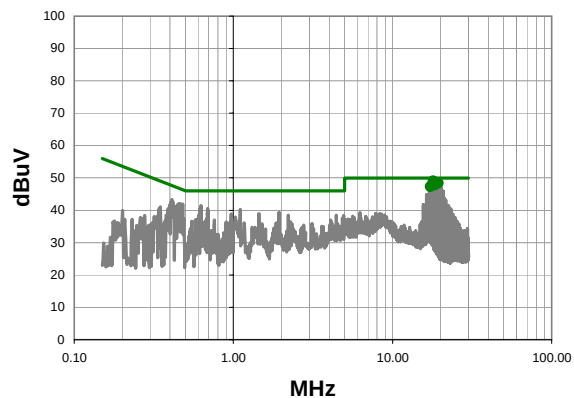
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.720	28.6	20.9	49.5	50.0	-0.5
19.428	27.4	21.0	48.4	50.0	-1.6
17.770	27.1	20.9	48.0	50.0	-2.0
18.480	26.8	20.9	47.7	50.0	-2.3
17.296	26.2	20.9	47.1	50.0	-2.9
17.060	25.8	20.8	46.6	50.0	-3.4

Work Order:	PROS0109	Date:	07/06/11	
Project:	None	Temperature:	22.41	
Job Site:	OC06	Humidity:	41.1	
Serial Number:	09435H1000039	Barometric Pres.:	1019.2	Tested by: Johnny Candelas
EUT:	WMIA-199NI			
Configuration:	2			
Customer:	ProSoft Technology, Inc.			
Attendees:	None			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuous Transmit			
Deviations:	No deviations.			
Comments:	802.11n (40MHz), Ch 165 - 5795 MHz, MCS0. Phihong PSC20R-120 power supply, ferrite (0443164151) 2 loops on power cable by EUT			
Test Specifications FCC 15.207:2011		Class B		Test Method ANSI C63.10:2009
Run #	10	Line:	Neutral	Ext. Attenuation: 20
Results				Pass

Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.006	29.0	20.9	49.9	60.0	-10.1
18.720	28.8	20.9	49.7	60.0	-10.3
19.430	28.1	21.0	49.1	60.0	-10.9
17.774	27.8	20.9	48.7	60.0	-11.3
18.484	27.5	20.9	48.4	60.0	-11.6
17.296	27.3	20.9	48.2	60.0	-11.8

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
18.006	28.2	20.9	49.1	50.0	-0.9
18.720	27.7	20.9	48.6	50.0	-1.4
19.430	27.4	21.0	48.4	50.0	-1.6
17.774	27.0	20.9	47.9	50.0	-2.1
18.484	26.9	20.9	47.8	50.0	-2.2
17.296	26.4	20.9	47.3	50.0	-2.7