

# ProSoft Technology, Inc.

**RLXIB-IHN**

**RLXIB-ICN**

**RLXIB-IHN-W**

**RLXIB-IH2N**

**RLXIB-IH2N-W**

**RLXIB-IHN-WC**

**Report No. PROS0092 Rev. 1**

Report Prepared By



[www.nwemc.com](http://www.nwemc.com)  
1-888-EMI-CERT

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EMC Test Report

**Certificate of Test**

**Last Date of Test: February 28, 2011**

**ProSoft Technology, Inc.**

**Model: RLXIB-IHN**

<b>Emissions</b>			
<b>Test Description</b>	<b>Specification</b>	<b>Test Method</b>	<b>Pass/Fail</b>
Move Time	FCC 15.407:2011	KDB 905462, FCC 06-96	<b>Pass</b>
Beginning Channel Availability Check	FCC 15.407:2011	KDB 905462, FCC 06-96	<b>Pass</b>
Non Occupancy Period	FCC 15.407:2011	KDB 905462, FCC 06-96	<b>Pass</b>
Initial Channel Availability Check	FCC 15.407:2011	KDB 905462, FCC 06-96	<b>Pass</b>
Closing Time	FCC 15.407:2011	KDB 905462, FCC 06-96	<b>Pass</b>
U-NII Detection Bandwidth	FCC 15.407:2011	KDB 905462, FCC 06-96	<b>Pass</b>
Ending Channel Availability Check	FCC 15.407:2011	KDB 905462, FCC 06-96	<b>Pass</b>
Statistical Performance Check	FCC 15.407:2011	KDB 905462, FCC 06-96	<b>Pass</b>

**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.  
22975 NW Evergreen Parkway, Suite 400  
Hillsboro, OR 97124

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 #2834D-1).

**Approved By:**



Dean Ghizzone, President



NVLAP Lab Code: 200630-0

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

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

Revision Number	Description	Date	Page Number
01	Added model RLXIB-IHN-WC	6-1-11	1, 7

**Barometric Pressure**

The recorded barometric pressure has been normalized to sea level.



# Accreditations and Authorizations

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## 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.

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## 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.

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## 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)

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## 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.

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## 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).

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# Accreditations and Authorizations

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## 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-1784, and T-1511, Brooklyn Park: R-3125, G-86, G-141, C-3464, and T-1634*).

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## 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).

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## 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

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## 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*)

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## 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.

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## SCOPE

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



## Northwest EMC Locations



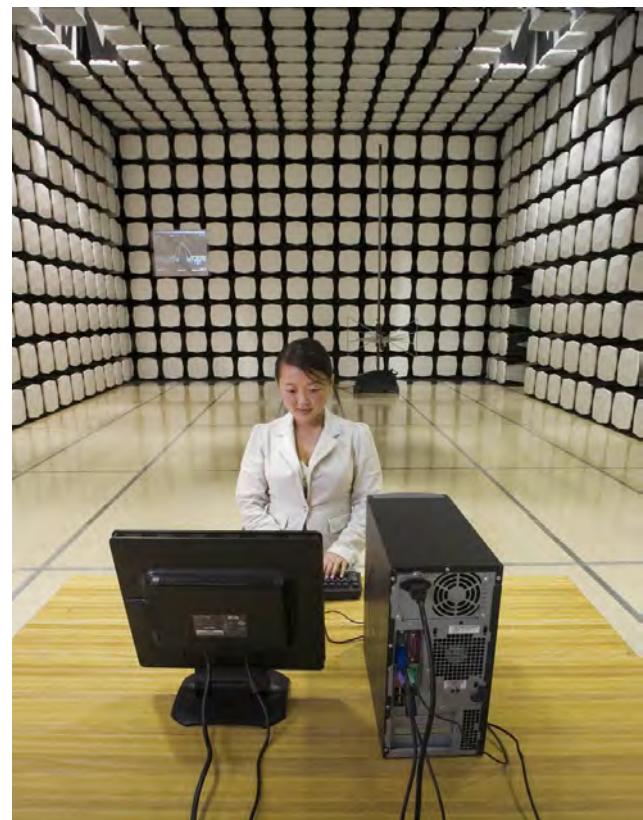
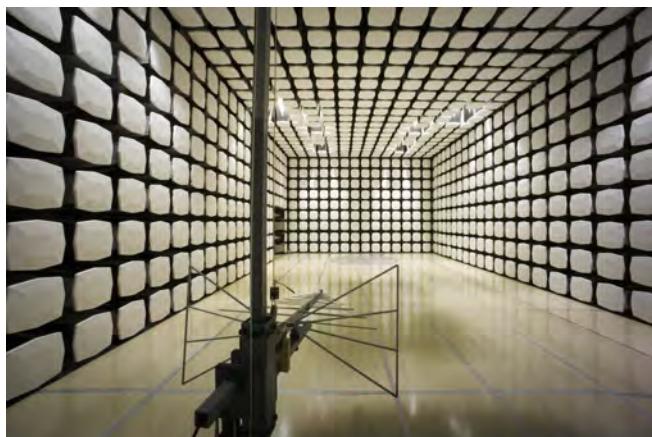
Oregon  
Labs EV01-EV12  
22975 NW Evergreen Pkwy  
Suite 400  
Hillsboro, OR 97124  
(503) 844-4066

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 339<sup>th</sup> 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

<b>Company Name:</b>	ProSoft Technology, Inc.
<b>Address:</b>	5201 Truxtun Ave., 3rd Floor
<b>City, State, Zip:</b>	Bakersfield, CA 93309
<b>Test Requested By:</b>	Frank Hardy
<b>Model:</b>	RLXIB-IHN
<b>First Date of Test:</b>	February 15, 2011
<b>Last Date of Test:</b>	February 28, 2011
<b>Receipt Date of Samples:</b>	February 15, 2011
<b>Equipment Design Stage:</b>	Preproduction
<b>Equipment Condition:</b>	No Damage

## U-NII Device Description

## Functional Description

One combination 802.11a/b/g/n radio. It is master device and has ad-hoc capability. For the DFS it was linked to a wireless client.

## Client Provided Justification:

The RLXIB System is comprised of the following models, which are electronically and mechanically identical:

1. RLXIB - ICN
2. RLXIB – IHN
3. RLXIB-IHN-W
4. RLXIB-IH2N
5. RLXIB-IH2N-W
6. RLXIB-IHN-WC

The actual models tested were to represent a “worse-case” test subject is RLXIB-IHN.

## Hardware, Firmware, and OS Versions:

Firmware version: ath\_dfs: 2.0

## The operating frequency range(s) of the equipment.

2412 – 2462 MHz

5150 – 5250 MHz

5250 - 5350 MHz (DFS Band)

5470 – 5725 MHz (DFS Band)

## The operating modes (Master and/or Client) of the U-NII device.

Master Device

## For Client devices, indicate whether or not it has DFS capabilities and indicate the FCC (and IC) identifier for the Master U-NII Device that is used with it for DFS testing.

Not Applicable

## List the highest and the lowest possible power level (equivalent isotropic radiated power (EIRP)) of the equipment.

The maximum EIRP of the 5 GHz equipment is 19.8 dBm, and the minimum possible EIRP is

13.1 dBm.
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**Test sequences or messages that should be used for communication between Master and Client Devices, which are used for loading the Channel.**

1. Stream the test file from the Master Device to the Client Device for IP based systems or frame based systems which dynamically allocate the talk/listen ratio.
2. For frame based systems with fixed talk/listen ratio, set the ratio to 45%/55% and stream the test file from the Master to the Client.
3. For other system architectures, supply appropriate Channel loading methodology.

System testing was performed with the MPEG test file that streams full motion video at 30 frames per second from the Master to the Client IP based system. The following details explain how the channel loading requirements were met:

The master device had a NAS(Network Attached Storage) device connected to its Ethernet port. The radio was linked to an 802.11n client module using the conducted method via a series of splitters/combiners and attenuators. The PC used the 802.11n client module and streamed the NTIA specified MPEG test file from the NAS box, via the Master device.

**Transmit Power Control description.**

This device does implement transmit power control. It was used during the power measurements to calculate the EIRP.

**System architectures, data rates, U-NII Channel bandwidths.**

1. Indicate the type(s) of system architecture (e.g. IP based or Frame based) that the U-NII device employs. Each type of unique architecture must be tested.

The Master device (EUT) employs IP based system architecture.

**The time required for the Master Device and/or Client Device to complete its power-on cycle.**

The Master device used in the test system requires 58 seconds to complete its power-on cycle

**Manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms is not available to the end user.**

The Master device (EUT) does use radar detection. The parameters of the Radar Waveforms are not available to the end user. Changes to the radar detection are only known and available to Prosoft and can be blocked from the end user via firmware.

**Uniform Channel Spreading requirement for Master Devices. For Master Devices, indicate how the master provides, on aggregate, uniform Channel loading of the spectrum across all Channels.**

The Master Device does implement uniform spreading. A declaration provided by the client is included within this report

**List all antenna assemblies and their corresponding gains.**

1. If radiated tests are to be performed, the U-NII Device should be tested with the lowest gain antenna assembly (regardless of antenna type). The report should indicate which antenna assembly was used for the tests. For devices with adjustable output power, list the output power range and the maximum EIRP for each antenna assembly.
2. If conducted tests are to be performed, indicate which antenna port/connection was used for the tests and the antenna assembly gain that was used to set the DFS Detection Threshold level during calibration of the test setup.
  - a. Indicate the calibrated conducted DFS Detection Threshold level.
  - b. For devices with adjustable output power, list the output power range and the maximum EIRP for each antenna assembly.
  - c. Indicate the antenna connector impedance. Ensure that the measurement instruments match (usually 50 Ohms) or use a minimum loss pad and take into account the conversion loss.
3. Antenna gain measurement verification for tested antenna.
  - a. Describe procedure
  - b. Describe the antenna configuration and how it is mounted
  - c. If an antenna cable is supplied with the device, cable loss needs to be taken into account. Indicate the maximum cable length and either measure the gain with this cable or adjust the measured gain accordingly. State the cable loss.

The Master device (EUT) has three electrically and structurally identical antenna ports. A conducted DFS test was performed using "Port A". It has a 50 ohm impedance.

The antenna gain of the Master device was provided by Prosoft. The maximum gain was stated as 5dBi.

The calibrated conducted DFS detection threshold was set to -63 dBm at the antenna port of the Master. This is equal to the DFS Detection Threshold of the Master + 1 dB.

**Applicability of DFS Requirements Prior to Use of a Channel**

Requirement	Operational Mode		
	Master	Client (without DFS)	Client (with DFS)
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
Uniform Spreading	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

**Applicability of DFS requirements during normal operation**

Requirement	Operational Mode		
	Master	Client (without DFS)	Client (with DFS)
DFS Detection Threshold	Yes	Not required	Yes
Channel Closing Transmission Time	Yes	Yes	Yes
Channel Move Time	Yes	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required	Yes

**DFS Response Requirement Values**

Parameter	Value
Non-occupancy	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds (See Note 1)
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. (See Notes 1 and 2).
U-NII Detection Bandwidth	Minimum 80% of the UNII 99% transmission power bandwidth. (See Note 3).

Note 1: The instant that the Channel Move Time and the Channel Closing Transmission Time begins is as follows:

- For the Short Pulse Radar Test Signals this instant is the end of the Burst.
- For the Frequency Hopping radar Test Signal, this instant is the end of the last radar Burst generated.
- For the Long Pulse Radar Test Signal this instant is the end of the 12 second period defining the Radar Waveform.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 1 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

**DFS Detection Thresholds for Master or Client Devices Incorporating DFS**

Maximum Transmit Power	Value (See Notes 1 and 2)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.  
 Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

**Short Pulse Radar Test Waveforms**

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
1	1	1428	18	60%	30
2	1 - 5	150 - 230	23 - 29	60%	30
3	6 - 10	200 - 500	16 – 18	60%	30
4	11 - 20	200 - 500	12 - 16	60%	30
Aggregate (Radar Types 1-4)				80%	120

**Long Pulse Radar Test Waveforms**

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50 - 100	5 - 20	1000 - 2000	1 - 3	8 - 20	80%	30

**Frequency Hopping Radar Test Waveform**

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

**CONFIGURATION 1 PROS0092**

<b>Software/Firmware Running during test</b>	
<b>Description</b>	<b>Version</b>
Windows XP	2002 SP3

<b>EUT</b>			
<b>Description</b>	<b>Manufacturer</b>	<b>Model/Part Number</b>	<b>Serial Number</b>
EUT - Industrial 802.11(b)/(g)/(a)/(n)	Prosoft Technology	RLXIB-IHN	00-0D-F0-3C-8B

<b>Peripherals in test setup boundary</b>			
<b>Description</b>	<b>Manufacturer</b>	<b>Model/Part Number</b>	<b>Serial Number</b>
Switching Power Adapter	Phihong	PSC20R-120	P80800120B1
Remote Client PC	Lenovo	7259 B2U	MJAGWB5
Media Storage	IoMega	StoreCenter iX2	12B0171672

<b>Remote Equipment Outside of Test Setup Boundary</b>			
<b>Description</b>	<b>Manufacturer</b>	<b>Model/Part Number</b>	<b>Serial Number</b>
Wireless Client	Engenius	EUB-862 Ext2	08C234415

<b>Cables</b>					
<b>Cable Type</b>	<b>Shield</b>	<b>Length (m)</b>	<b>Ferrite</b>	<b>Connection 1</b>	<b>Connection 2</b>
DC Power	No	1.8m	Yes	EUT	Switching Power Adapter
USB Cable	Yes	2.0m	No	Remote Client PC	Wireless Client
Lan Cable	No	2.0m	No	EUT	Media Storage
Lan Cable	No	1.8m	No	EUT	Unterminated
Serial Cable (Debug)	No	1.8m	No	EUT	Remote Client PC

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	2/15/2011	Move Time	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	2/15/2011	Beginning Channel Availability Check	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	2/16/2011	Non Occupancy Period	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	2/17/2011	Initial Channel Availability Check	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	2/17/2011	Closing Time	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
6	2/17/2011	U-NII Detection 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	2/17/2011	Ending Channel Availability Check	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	2/28/2011	Statistical Performance Check	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

# Move Time

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

## TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4440A	AFD	6/1/2009	24
RF Vector Signal Generator	Agilent	V2920A	TIC	10/27/2010	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.

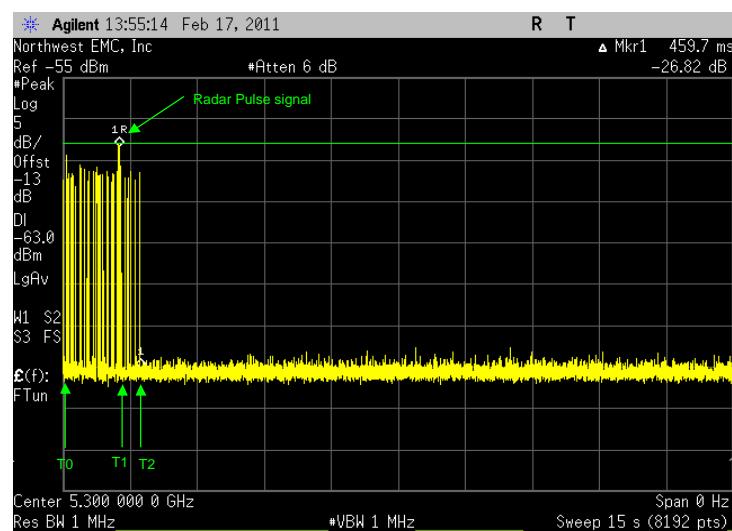
## TEST DESCRIPTION

The test procedure described in Section 7.8 of KDB 905462 was followed to perform the following test. The UUT is a master device using IP based communication. The test was performed using the conducted method described in section 7.2 of the KDB document. After the MPEG file begins streaming across the Master and Client device, a radar burst is introduced and an analyzer is used to record the time it takes for the UUT to completely vacate the channel (data and/or control signals are completed). At time T0 on the screen capture, a radar signal is introduced, and at time T1, the channel move time is recorded until the move is complete at T2. The time from T1 to T2 is considered the total channel move time for the UUT. This test is performed for both a long pulse and short pulse radar signal

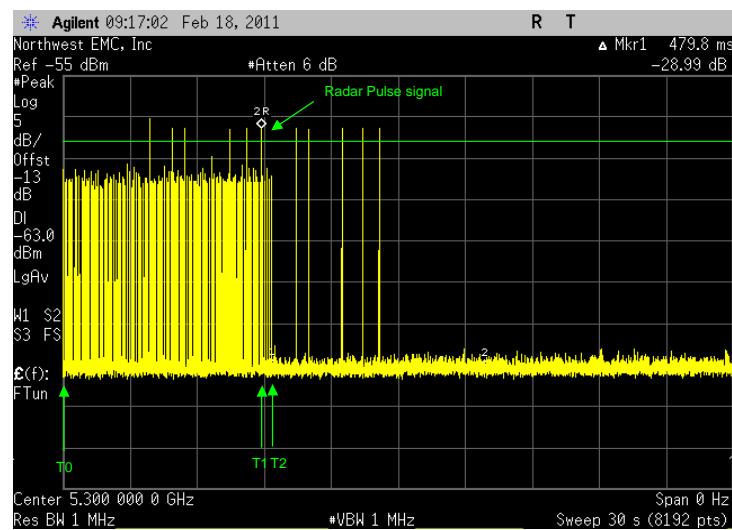
**EMC****Move Time**

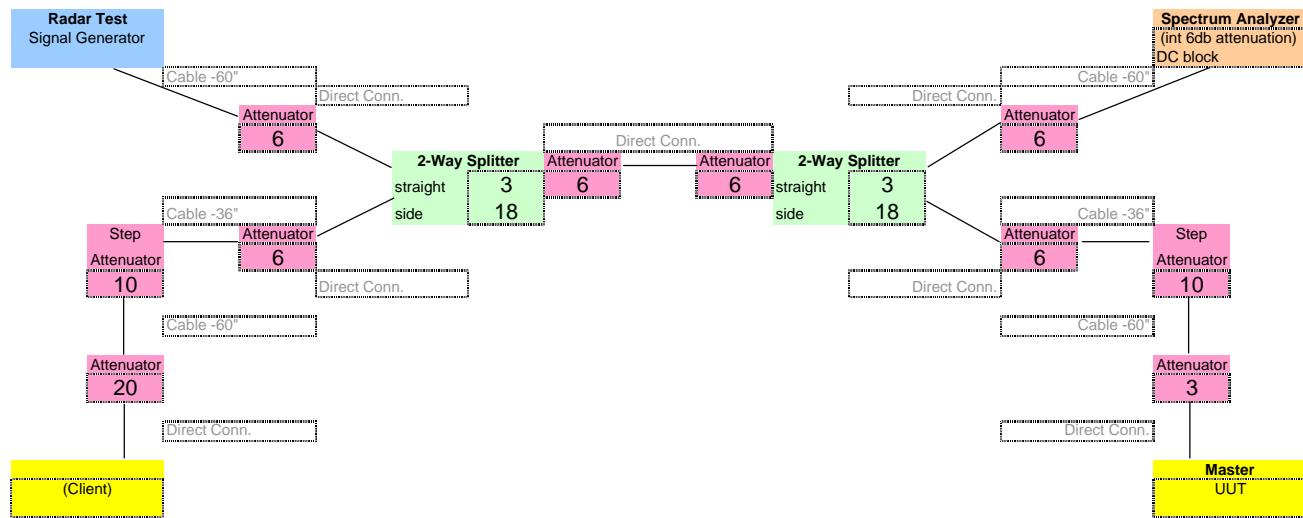
EUT: RLXIB-IHN	Work Order: PROS0092		
Serial Number: 00-0D-F0-3C-8B	Date: 02/15/11		
Customer: ProSoft Technology, Inc.	Temperature: 20°C		
Attendees: None	Humidity: 46%		
Project: None	Barometric Pres.: 1004mb		
Tested by: Jeremiah Darden	Job Site: EV06		
<b>TEST SPECIFICATIONS</b>			
FCC 15.407-2011	Power: 110VAC/60Hz		
	Test Method: KDB 905462, FCC 06-96		
<b>COMMENTS</b>			
Channel move time after UUT senses radar signal			
<b>DEVIATIONS FROM TEST STANDARD</b>			
None			
Configuration #	1		
Signature 			
Short Pulse	Value: 459.7mS	Limit: 10sec	Result: Pass
Long Pulse	Value: 479.8mS	Limit: 10sec	Result: Pass

Short Pulse			
	Value	Limit	Result
	459.7mS	10sec	Pass



Long Pulse			
	Value	Limit	Result
	479.8mS	10sec	Pass





Attenuation

Master Radar Sim	Master Spec. Anal.	Client Spec. Anal.	Client Radar Sim	Master Client	Radar Sim Spec. Anal.
3	3	20	20	3	6
10	10	10	10	10	3
6	6	6	6	6	6
3	18	3	18	3	6
6	6	6	6	6	3
6		6		6	6
3		3		3	
6		6		6	
				10	
				20	

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RF Vector Signal Generator	Agilent	V2920A	TIC	10/27/2010	12	

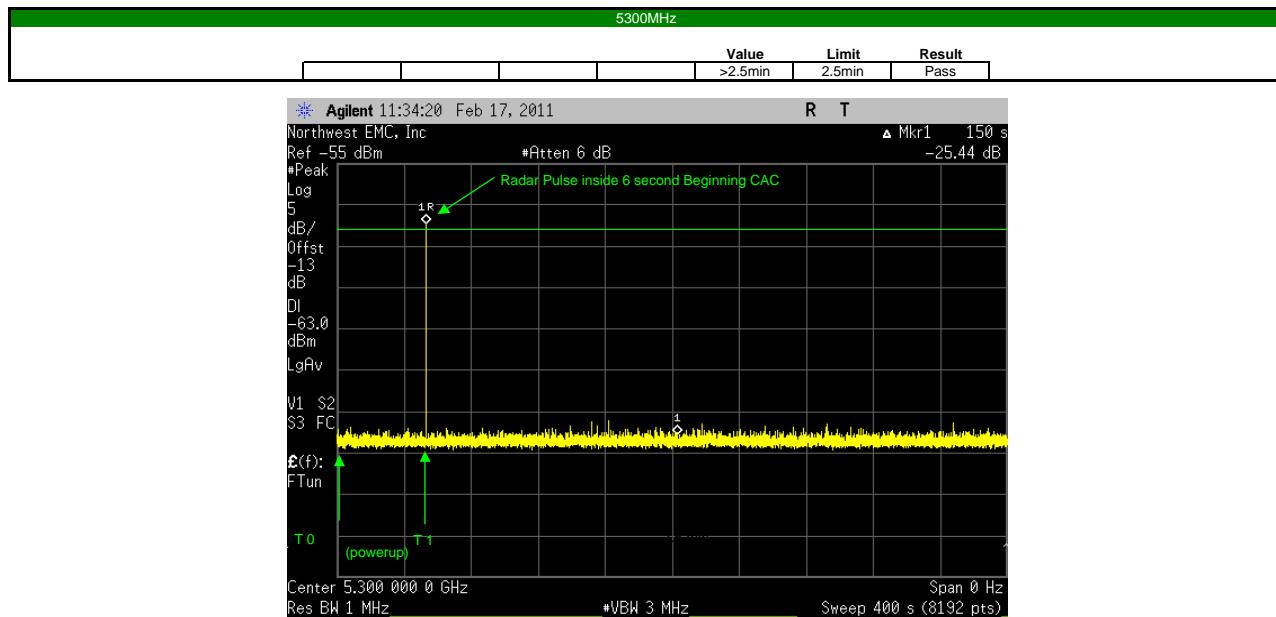
#### MEASUREMENT UNCERTAINTY

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 test procedure described in Section 7.8 of KDB 905462 was followed to perform the following test. The UUT is a master device using IP based communication. The test was performed using the conducted method described in section 7.2 of the KDB document. The UUT was powered on. When the startup cycle was completed, marked as T1 on the graph, a single Radar Burst was introduced within six seconds of T1. An analyzer was used to monitor the UUT's performance after the injecting the Radar Burst and recorded all UUT emissions for more than 2.5 minutes.

Beginning Channel Availability Check			XMit 2011.02.03						
EUT: RLXIB-IHN		Work Order: PROS0092							
Serial Number: 00-0D-F0-3C-8B		Date: 02/15/11							
Customer: ProSoft Technology, Inc.		Temperature: 20°C							
Attendees: None		Humidity: 45%							
Project: None		Barometric Pres.: 1007mb							
Tested by: Jeremiah Darden		Job Site: EV06							
TEST SPECIFICATIONS									
FCC 15.407-2011		Power: 110VAC/60Hz							
		Test Method: KDB 905462, FCC 06-96							
COMMENTS									
Radar pulsed within 6 seconds at the beginning of the Tchannel availability check.									
DEVIATIONS FROM TEST STANDARD									
None									
Configuration #	1								
<table border="1"> <thead> <tr> <th>Value</th> <th>Limit</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>&gt;2.5min</td> <td>2.5min</td> <td>Pass</td> </tr> </tbody> </table>				Value	Limit	Result	>2.5min	2.5min	Pass
Value	Limit	Result							
>2.5min	2.5min	Pass							
5300MHz									



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

TEST EQUIPMENT						
Description	Manufacturer	Model	ID	Last Cal.	Interval	
Spectrum Analyzer	Agilent	E4440A	AFD	6/1/2009	24	
RF Vector Signal Generator	Agilent	V2920A	TIC	10/27/2010	12	

#### MEASUREMENT UNCERTAINTY

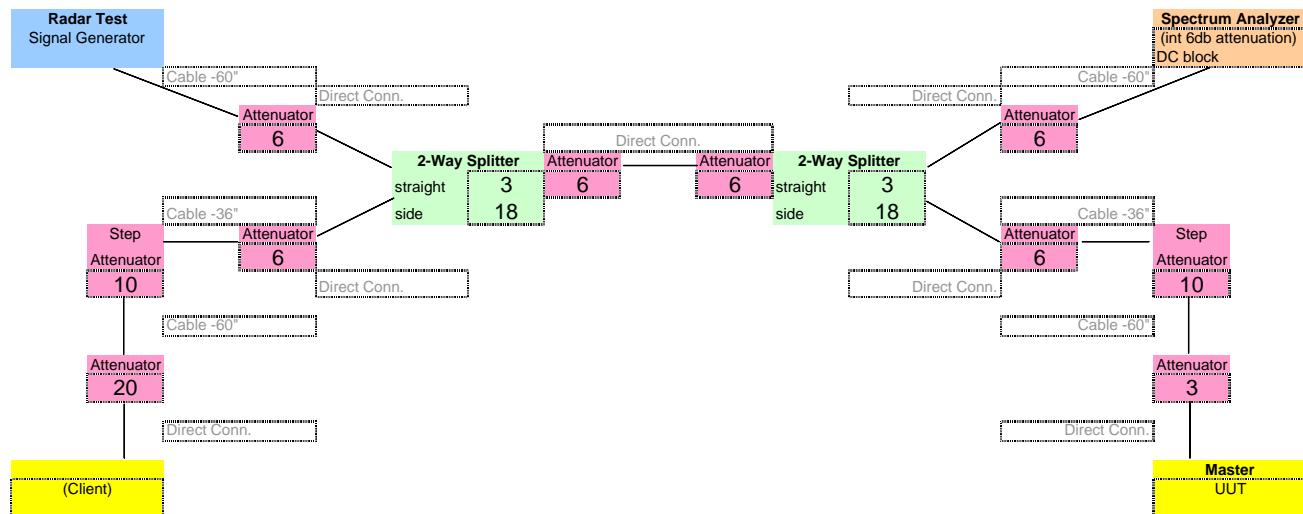
A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 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 test procedure described in Section 7.8 of KDB 905462 was followed to perform the following test. The UUT is a master device using IP based communication. The test was performed using the conducted method described in section 7.2 of the KDB document. The Non Occupancy Period is performed by monitoring the UUT using an analyzer during the period immediately following the "move time". The UUT should not resume any transmissions on the original channel for a period of at least 30 minutes. This time period is shown as T2 to T3 on the screen capture

Non Occupancy Period			XMit 2011.02.03
EMC		NORTHWEST	
EUT:	RLXIB-IHN	Work Order:	PROS0092
Serial Number:	00-0D-F0-3C-8B	Date:	02/16/11
Customer:	ProSoft Technology, Inc.	Temperature:	21°C
Attendees:	None	Humidity:	45%
Project:	None	Barometric Pres.:	1006mb
Tested by:	Jeremiah Darden	Power:	110VAC/60Hz
TEST SPECIFICATIONS		Job Site: EV06	
FCC 15.407-2011		Test Method: KDB 905462, FCC 06-96	
COMMENTS			
After radar is pulsed, the UUT does not resume any transmissions on the channel			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1	Signature	
5300MHz		Value	Limit
		>30min	30min
		Pass	





Attenuation

Master Radar Sim	Master Spec. Anal.	Client Spec. Anal.	Client Radar Sim	Master Client	Radar Sim Spec. Anal.
3	3	20	20	3	6
10	10	10	10	10	3
6	6	6	6	6	6
3	18	3	18	3	6
6	6	6	6	6	3
6		6		6	6
3		3		3	
6		6		6	
				10	
				20	

===== 43 ===== 43 ===== 60 ===== 60 ===== 73 ===== 30 =====

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

TEST EQUIPMENT						
Description	Manufacturer	Model	ID	Last Cal.	Interval	
Spectrum Analyzer	Agilent	E4440A	AFD	6/1/2009	24	
RF Vector Signal Generator	Agilent	V2920A	TIC	10/27/2010	12	

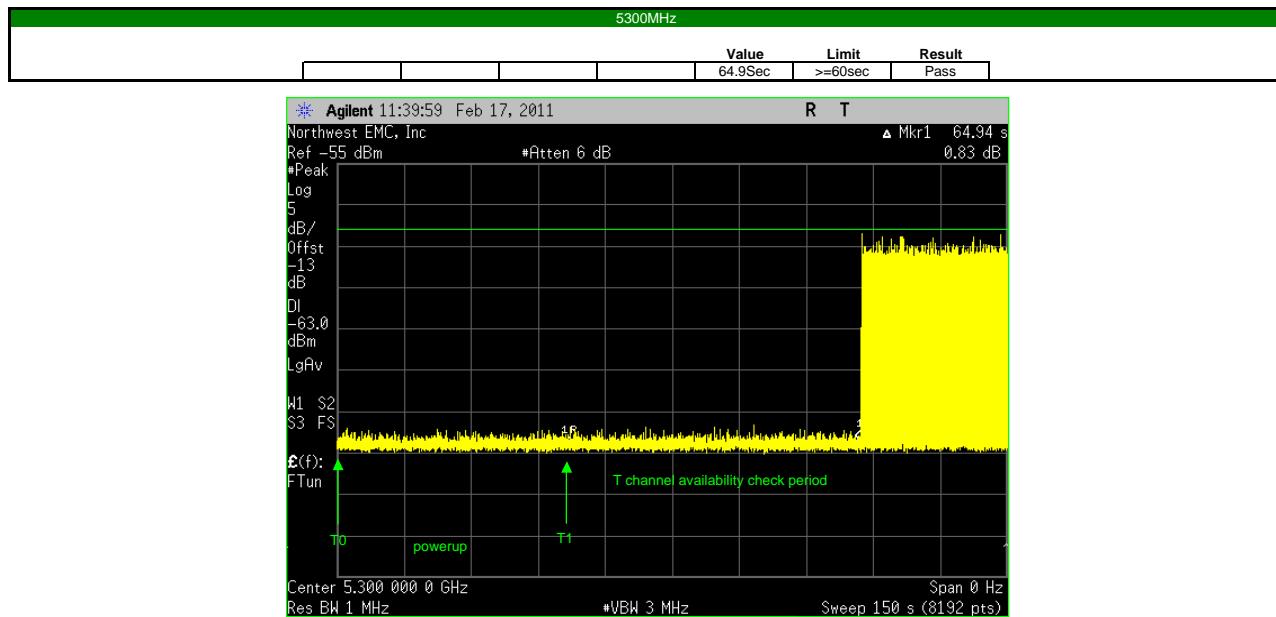
#### MEASUREMENT UNCERTAINTY

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.

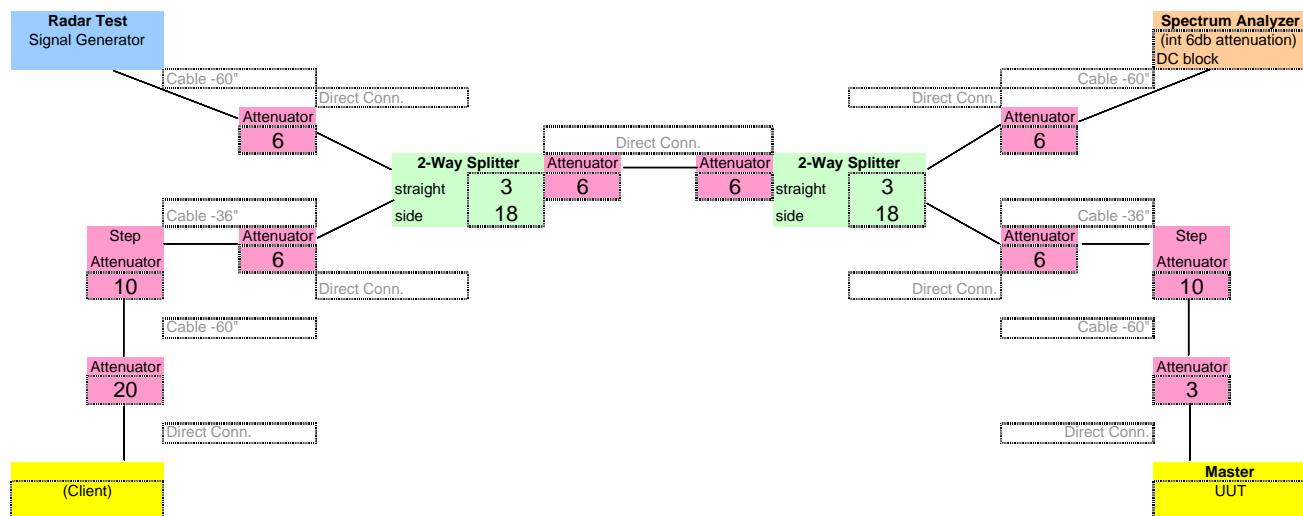
#### TEST DESCRIPTION

The test procedure described in Section 7.8 of KDB 905462 was followed to perform the following test. The UUT is a master device using IP based communication. The test was performed using the conducted method described in section 7.2 of the KDB document. Using an analyzer, the UUT was monitored during the powerup sequence, and the 60 second window during the channel availability check to make sure the UUT does not emit any beacons, control, or data signals within this time period.

Initial Channel Availability Check			XMit 2011.02.03
EUT: RLXIB-IHN Serial Number: 00-0D-F0-3C-8B Customer: ProSoft Technology, Inc. Attendees: None Project: None Tested by: Jeremiah Darden		Work Order: PROS0092 Date: 02/17/11 Temperature: 20°C Humidity: 45% Barometric Pres.: 1007mb Job Site: EV06	
TEST SPECIFICATIONS			
FCC 15.407-2011		KDB 905462, FCC 06-96	
COMMENTS			
Checks for radar pulses within the channel for a sixty second period before any transmissions are made			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1	Signature	
5300MHz		Value	Limit
		64.9Sec	>=60sec
		Result	
		Pass	



## Initial Channel Availability Check



## Attenuation

Master Radar Sim	Master Spec. Anal.	Client Spec. Anal.	Client Radar Sim	Master Client	Radar Sim Spec. Anal.
3	3	20	20	3	6
10	10	10	10	10	3
6	6	6	6	6	6
3	18	3	18	3	6
6	6	6	6	6	3
6		6		6	6
3		3		3	
6		6		6	
				10	
				20	

# Closing Time

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

## TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4440A	AFD	6/1/2009	24
RF Vector Signal Generator	Agilent	V2920A	TIC	10/27/2010	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.

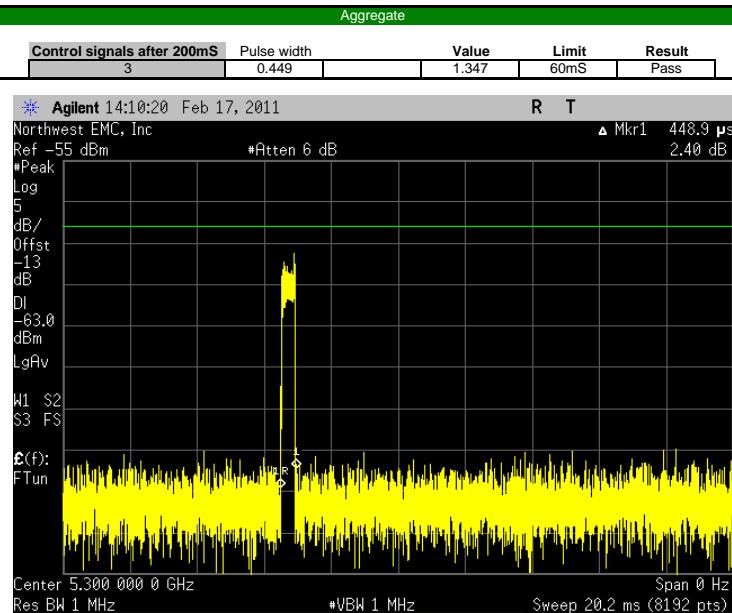
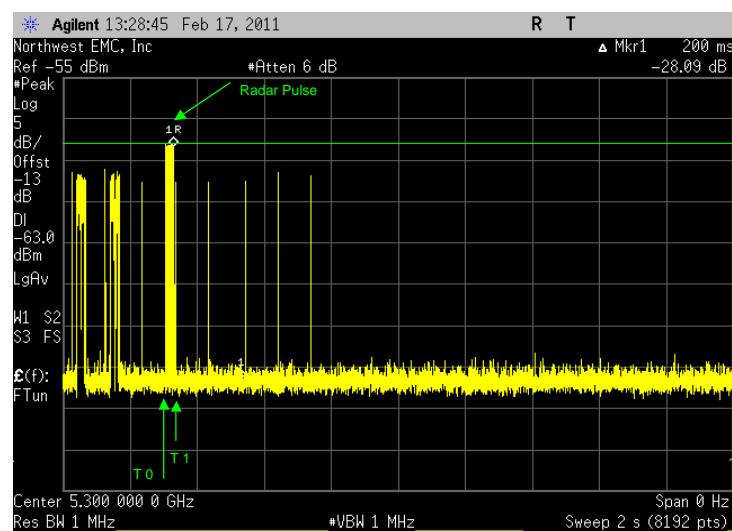
## TEST DESCRIPTION

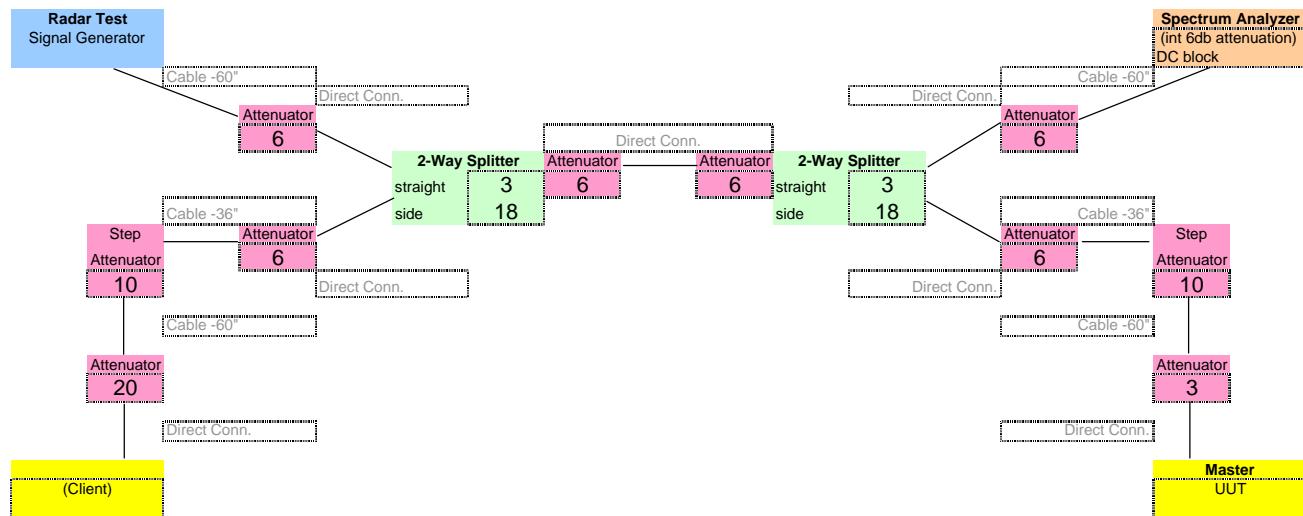
The test procedure described in Section 7.8 of KDB 905462 was followed to perform the following test. The UUT is a master device using IP based communication. The test was performed using the conducted method described in section 7.2 of the KDB document. The closing time is performed by first streaming the designated MPEG test file from the master device to the client device. While in this operating, a radar burst is introduced (shown as T0 on the screen capture). After T1, when the radar burst ends, an analyzer was used to monitor the 200ms directly after the Master starts closing the channel(channel closing means the data transmission may be ended, but control or channel switching info may still be present). The number of control signals are then measured, and their sum is presented as the aggregate. The total closing time is then determined.

**EMC****Closing Time**

EUT:	RLXIB-IHN	Work Order:	PROS0092
Serial Number:	00-0D-F0-3C-8B	Date:	02/17/11
Customer:	ProSoft Technology, Inc.	Temperature:	20°C
Attendees:	None	Humidity:	45%
Project:	None	Barometric Pres.:	1007mb
Tested by:	Jeremiah Darden	Power:	110VAC/60Hz
TEST SPECIFICATIONS		Test Method	
FCC 15.407-2011		KDB 905462, FCC 06-96	
<b>COMMENTS</b>			
total Time the UUT transmits in the occupied channel after the Radar pulse is sensed			
<b>DEVIATIONS FROM TEST STANDARD</b>			
None			
Configuration #	1	Signature	
200mS		Value	Limit
Aggregate	3	0.449	0.449
		200	200mS
		1.347	60mS
Total Closing time		201.347	260mS
			Pass

200mS					
		Value	Limit	Result	
		200	200mS	N/A	





Attenuation

Master Radar Sim	Master Spec. Anal.	Client Spec. Anal.	Client Radar Sim	Master Client	Radar Sim Spec. Anal.
3	3	20	20	3	6
10	10	10	10	10	3
6	6	6	6	6	6
3	18	3	18	3	6
6	6	6	6	6	3
6		6		6	6
3		3		3	
6		6		6	
				10	
				20	

===== 43 ===== 43 ===== 60 ===== 60 ===== 73 ===== 30 =====

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

TEST EQUIPMENT					
Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4440A	AFD	6/1/2009	24
RF Vector Signal Generator	Agilent	V2920A	TIC	10/27/2010	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 test procedure described in Section 7.8 of KDB 905462 was followed to perform the following test. The UUT is a master device using IP based communication. The test was performed using the conducted method described in section 7.2 of the KDB document. The Master device was set up without being linked to a client device (no MPEG traffic). A single radar burst is introduced and the response is noted by using an analyzer to monitor the response. The test was repeated 10 times at frequencies above and below the UUT's center frequency. The frequencies are increased or decreased until the UUT does not detect at least 90% of the radar burst. The lowest and highest frequencies are then subtracted and that becomes the U-NII Detection Bandwidth for the device.

U-NII Detection Bandwidth			XMit 2011.02.03
EMC		NORTHWEST	
EUT: RLXIB-IHN			Work Order: PROS0092
Serial Number: 00-0D-F0-3C-8B			Date: 02/17/11
Customer: ProSoft Technology, Inc.			Temperature: 20°C
Attendees: None			Humidity: 45%
Project: None			Barometric Pres.: 1007mb
Tested by: Jeremiah Darden	Power: 110VAC/60Hz	Job Site: EV06	
TEST SPECIFICATIONS			
FCC 15.407-2011		Test Method: KDB 905462, FCC 06-96	
COMMENTS			
99% Power Bandwidth = 23.5 MHz. 80% of 23.5=18.8MHz; Detection bandwidth =Fh-Fi= highest frequency with 90% or better detection - lowest frequency with 90% or better detection			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1	Signature	

	Value	Limit	Result
5301	100%	>90%	Pass
5302	100%	>90%	Pass
5303	100%	>90%	Pass
5304	100%	>90%	Pass
5305	100%	>90%	Pass
5306	100%	>90%	Pass
5307	100%	>90%	Pass
5308	100%	>90%	Pass
5309	100%	>90%	Pass
5310	100%	>90%	Pass
5311	40%	>90%	Fail
5299	100%	>90%	Pass
5298	100%	>90%	Pass
5297	100%	>90%	Pass
5296	100%	>90%	Pass
5295	100%	>90%	Pass
5294	100%	>90%	Pass
9293	100%	>90%	Pass
5292	100%	>90%	Pass
5291	100%	>90%	Pass
5290	100%	>90%	Pass
5289	30%	>90%	Fail
5300	100%	>90%	Pass

Detection Bandwidth	20 MHz	18.8 MHz	Pass
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5301

				Value	Limit	Result
				100.00%	>90%	Pass

Trial  
(1=Detected, 0=Not detected)

100.00%

5302

				Value	Limit	Result
				100.00%	>90%	Pass

Trial  
(1=Detected, 0=Not detected)

111

100.00%

5303

				Value	Limit	Result
				100.00%	>90%	Pass

Trial  
(1=Detected, 0=Not detected)

100.00%

5304

				Value	Limit	Result
				100.00%	>90%	Pass

Trial  
(1=Detected, 0=Not detected)

111

100.00%

5305

				Value	Limit	Result
				100.00%	>90%	Pass

Trial  
(1=Detected, 0=Not detected)

1
1
1
1
1
1
1
1
1
1
1

100.00%

5306

				Value	Limit	Result
				100.00%	>90%	Pass

Trial  
(1=Detected, 0=Not detected)

1
1
1
1
1
1
1
1
1
1
1

100.00%

5307

				Value	Limit	Result	
				100.00%	>90%	Pass	

Trial (1=Detected, 0=Not detected)
1
1
1
1
1
1
1
1
1
1
1
1

100.00%

5308

				Value	Limit	Result	
				100.00%	>90%	Pass	

Trial (1=Detected, 0=Not detected)
1
1
1
1
1
1
1
1
1
1
1
1

100.00%

5309

				Value	Limit	Result
				100.00%	>90%	Pass

Trial  
(1=Detected, 0=Not detected)

1
1
1
1
1
1
1
1
1
1
1

100.00%

5310

				Value	Limit	Result
				100.00%	>90%	Pass

Trial  
(1=Detected, 0=Not detected)

1
1
1
1
1
1
1
1
1
1
1

100.00%

5311

Value	Limit	Result
40.00%	>90%	Fail

Trial  
(1=Detected, 0=Not detected)

1
0
0
0
1
1
0
1
0
0

40.00%

5299

Value	Limit	Result
100.00%	>90%	Pass

Trial  
(1=Detected, 0=Not detected)

1
1
1
1
1
1
1
1
1
1

100.00%

				5298			Trial (1=Detected, 0=Not detected)
				Value	Limit	Result	
				100.00%	>90%	Pass	

1
1
1
1
1
1
1
1
1
1
1

100.00%

				5297			Trial (1=Detected, 0=Not detected)
				Value	Limit	Result	
				100.00%	>90%	Pass	

1
1
1
1
1
1
1
1
1
1

100.00%

5296

				Value	Limit	Result
				100.00%	>90%	Pass

Trial  
(1=Detected, 0=Not detected)

1
1
1
1
1
1
1
1
1
1
1

100.00%

5295

				Value	Limit	Result
				100.00%	>90%	Pass

Trial  
(1=Detected, 0=Not detected)

1
1
1
1
1
1
1
1
1
1
1

100.00%

5294

				Value	Limit	Result	Trial
				100.00%	>90%	Pass	(1=Detected, 0=Not detected)

1
1
1
1
1
1
1
1
1
1
1
1

100.00%

9293

				Value	Limit	Result	Trial
				100.00%	>90%	Pass	(1=Detected, 0=Not detected)

1
1
1
1
1
1
1
1
1
1
1

100.00%

5292

				Value	Limit	Result
				100.00%	>90%	Pass

Trial  
(1=Detected, 0=Not detected)

1
1
1
1
1
1
1
1
1
1
1

100.00%

5291

				Value	Limit	Result
				100.00%	>90%	Pass

Trial  
(1=Detected, 0=Not detected)

1
1
1
1
1
1
1
1
1
1
1

100.00%

5290

				Value	Limit	Result
				100.00%	>90%	Pass

Trial  
(1=Detected, 0=Not detected)

1
1
1
1
1
1
1
1
1
1
1

100.00%

5289

				Value	Limit	Result
				30.00%	>90%	Fail

Trial  
(1=Detected, 0=Not detected)

1
0
0
1
0
0
0
0
1
0

30.00%

5300

				Value	Limit	Result
				100.00%	>90%	

Trial  
(1=Detected, 0=Not detected)

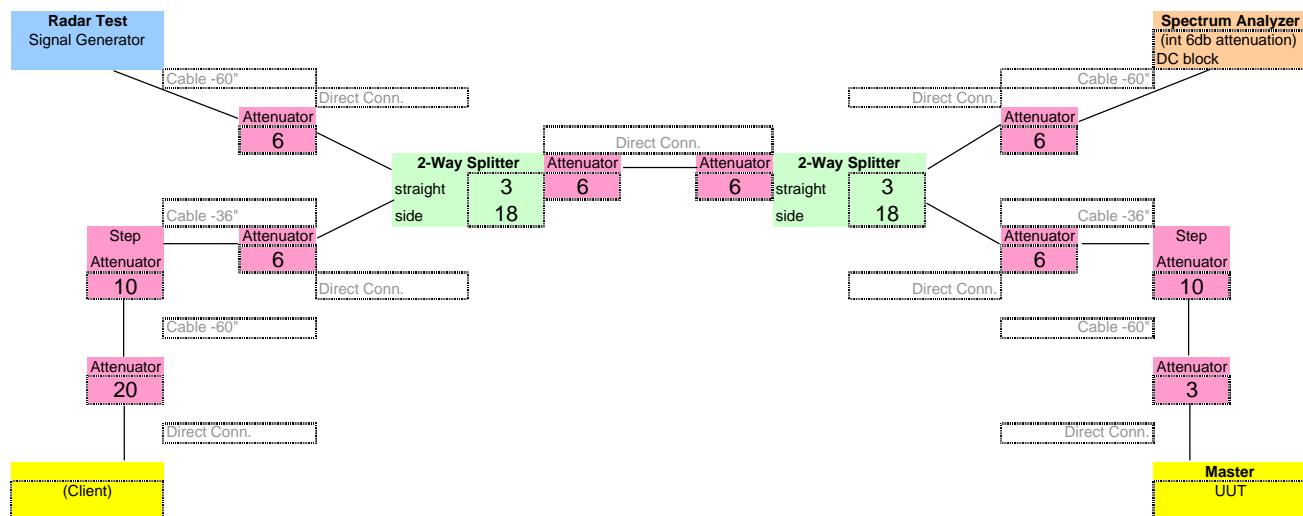
100%

N/A

				Value	Limit	Result
				0.00%		

Trial  
(1=Detected, 0=Not detected)

0.00%



Attenuation

Master Radar Sim	Master Spec. Anal.	Client Spec. Anal.	Client Radar Sim	Master Client	Radar Sim Spec. Anal.
3	3	20	20	3	6
10	10	10	10	10	3
6	6	6	6	6	6
3	18	3	18	3	6
6	6	6	6	6	3
6		6		6	6
3		3		3	
6		6		6	
				10	
				20	

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

**TEST EQUIPMENT**

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4440A	AFD	6/1/2009	24
RF Vector Signal Generator	Agilent	V2920A	TIC	10/27/2010	12

**MEASUREMENT UNCERTAINTY**

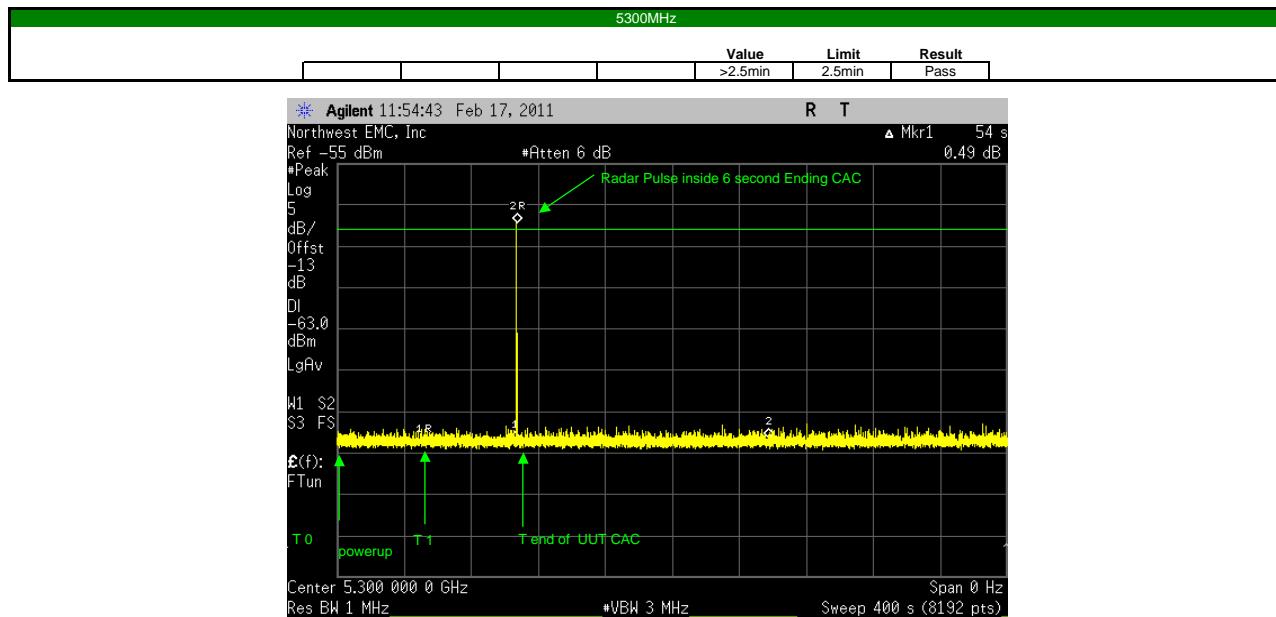
A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 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.

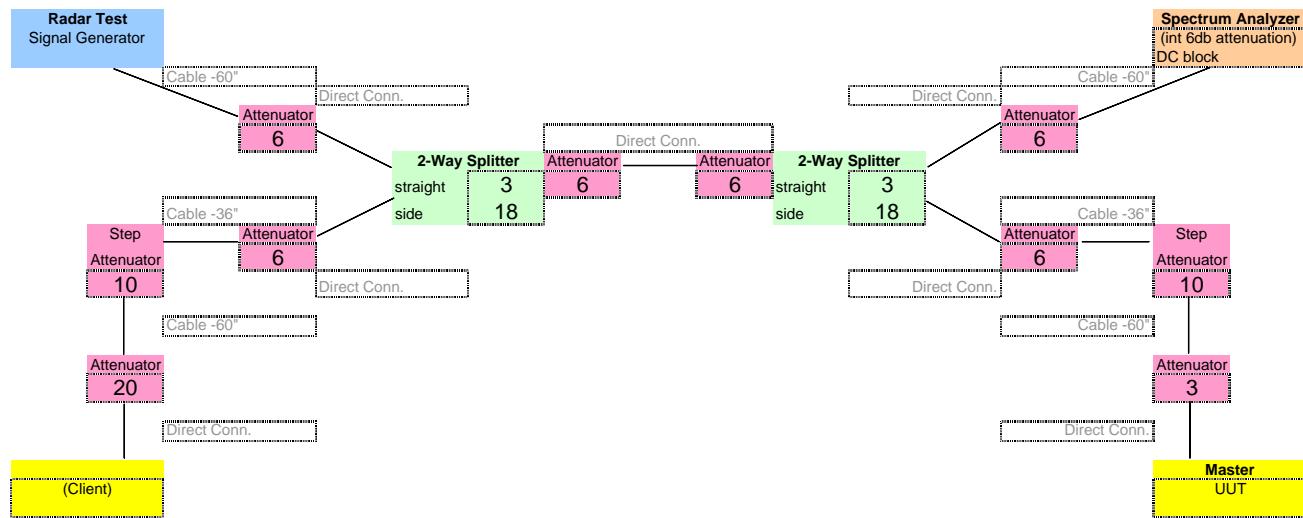
**TEST DESCRIPTION**

The test procedure described in Section 7.8 of KDB 905462 was followed to perform the following test. The UUT is a master device using IP based communication. The test was performed using the conducted method described in section 7.2 of the KDB document. The UUT was powered on. When the startup cycle was completed, marked as T1 on the graph, a single Radar Burst was introduced within 54 seconds of the 60second channel availability check window. An analyzer was used to monitor the UUT's performance after the injecting the Radar Burst and recorded all UUT emissions for more than 2.5 minutes.

**EMC****Ending Channel Availability Check**

EUT: RLXIB-IHN	Work Order: PROS0092		
Serial Number: 00-0D-F0-3C-8B	Date: 02/17/11		
Customer: ProSoft Technology, Inc.	Temperature: 20°C		
Attendees: None	Humidity: 45%		
Project: None	Barometric Pres.: 1007mb		
Tested by: Jeremiah Darden	Job Site: EV06		
<b>TEST SPECIFICATIONS</b>			
FCC 15.407-2011	Power: 110VAC/60Hz		
	Test Method: KDB 905462, FCC 06-96		
<b>COMMENTS</b>			
Radar pulsed within 6 seconds at the end of the Tchannel availability check.			
<b>DEVIATIONS FROM TEST STANDARD</b>			
None			
Configuration #	1		
Signature 			
5300MHz	Value >2.5min	Limit 2.5min	Result Pass





Attenuation

Master Radar Sim	Master Spec. Anal.	Client Spec. Anal.	Client Radar Sim	Master Client	Radar Sim Spec. Anal.
3	3	20	20	3	6
10	10	10	10	10	3
6	6	6	6	6	6
3	18	3	18	3	6
6	6	6	6	6	3
6		6		6	6
3		3		3	
6		6		6	
				10	
				20	

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	
RF Vector Signal Generator	Agilent	V2920A	TIC	10/27/2010	12	
Spectrum Analyzer	Agilent	E4440A	AFD	6/1/2009	24	
Spectrum Analyzer	Agilent	E4440A	AFA	2/9/2010	15	

#### 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 test procedure described in Section 7.8 of KDB 905462 was followed to perform the following test. The UUT is a master device using IP based communication. The test was performed using the conducted method described in section 7.2 of the KDB document. The statistical performance check is performed by individually introducing all six radar types to the UUT device and collecting the number of detections and non detections of the signal. The totals are calculated and a percentage is determined based on the radar type

## Statistical Performance Check

EUT:	RLXIB-IHN	Work Order:	PROS0092
Serial Number:	00-0D-F0-3C-8B	Date:	02/28/11
Customer:	ProSoft Technology, Inc.	Temperature:	21°C
Attendees:	Frank Hardy	Humidity:	45%
Project:	None	Barometric Pres.:	1010mb
Tested by:	Jeremiah Darden	Job Site:	OC13
TEST SPECIFICATIONS		Test Method	
FCC 15.407-2011		KDB 905462, FCC 06-96	
COMMENTS			
None			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	1	Signature	
		Percent Detected	Limit
Type1		97%	60%
Type2		60%	60%
Type3		83%	60%
Type4		83%	60%
Type5		97%	80%
Type6		97%	70%

Aggregate minimum % of all short Pulse Radar types 1-4

81% 80% Pass

Type1					
		Percent Detected	Limit	Result	
		97%	60%	Pass	

Radar Test Signal # Table	Trial #	Detection		97%	29	1
		Yes	No			
	1	Yes				
	2	Yes				
	3	Yes				
	4	Yes				
	5	Yes				
	6	Yes				
	7	Yes				
	8	Yes				
	9	Yes				
	10		No			
	11	Yes				
	12	Yes				
	13	Yes				
	14	Yes				
	15	Yes				
	16	Yes				
	17	Yes				
	18	Yes				
	19	Yes				
	20	Yes				
	21	Yes				
	22	Yes				
	23	Yes				
	24	Yes				
	25	Yes				
	26	Yes				
	27	Yes				
	28	Yes				
	29	Yes				
	30	Yes				

Type2					
		Percent Detected	Limit	Result	
		60%	60%	Pass	

Radar Test Signal # Table	Trial #	Detection		Number of Pulses Per burst	Pulse width (us)	PRI (us)
		Yes	No			
	1	Yes		24	2.9	154.1
	2	Yes		28	4.4	214.6
	3		No	28	3	159
	4		No	24	3.6	183.4
	5	Yes		23	1.2	208.8
	6	Yes		25	1.2	221.8
	7		No	27	2.1	189.9
	8		No	28	2.4	178.6
	9	Yes		28	3.3	171.7
	10	Yes		26	4.9	170.1
	11		No	27	3.5	213.5
	12		No	27	3.5	213.5
	13		No	29	4.6	172.4
	14	Yes		28	4.2	203.8
	15	Yes		25	4.5	186.5
	16	Yes		28	4.2	166.8
	17	Yes		27	1.1	184.9
	18		No	26	3.3	175.7
	19		No	23	2	164
	20	Yes		29	3.6	165.4
	21	Yes		24	4.7	182.3
	22		No	27	2.5	175.5
	23	Yes		27	4.9	219.1
	24	Yes		27	3.9	196.1
	25		No	27	3.2	185.8
	26	Yes		25	4.8	196.2
	27	Yes		26	2	158
	28		No	24	3	168
	29	Yes		26	4.6	158.4
	30	Yes		26	3.4	209.6

60% 18 12

## Type3

			Percent Detected	Limit	Result
			83%	60%	Pass

Radar Test Signal # Table	Trial #	Detection		Number of Pulses Per burst	Pulse width (us)	PRI (us)
		Yes	No			
Test Signal #1	1	Yes		18	7.6	419.4
	2	Yes		16	7.1	446.9
	3	Yes		16	6.8	473.2
	4	Yes		16	9.5	314.5
	5	Yes		18	8.6	243.4
	6	Yes		18	8.6	243.4
	7	Yes		17	9.5	392.5
	8	Yes		17	7.2	354.8
	9	Yes		16	9.4	245.6
	10	Yes		16	8	352
	11	Yes		18	7.2	457.8
	12	Yes		18	6.7	344.3
	13	Yes		18	7.3	401.7
	14	Yes		16	9.4	358.6
	15	Yes		17	8.6	324.4
	16		No	17	8	276
	17	Yes		17	6.2	396.8
	18	Yes		16	7	301
	19		No	16	8.8	439.2
	20	Yes		17	6.4	474.6
	21		No	16	7.3	219.7
	22	Yes		16	6.8	477.2
	23		No	18	6.5	247.5
	24	Yes		17	8.9	392.1
	25	Yes		17	6.7	454.3
	26	Yes		16	7.3	322.7
	27	Yes		17	9.1	230.9
	28	Yes		18	7.1	281.9
	29		No	17	6.2	393.8
	30	Yes		16	8.1	388.9

83%

25

5

## Type4

			Percent Detected	Limit	Result
			83%	60%	Pass

Radar Test Signal # Table	Trial #	Detection		Number of Pulses Per burst	Pulse width (us)	PRI (us)
		Yes	No			
Test Signal #1	1	Yes		12	11.3	334.7
	2	Yes		15	12.5	426.5
	3	Yes		16	12.6	451.4
	4		No	14	15.5	313.5
	5	Yes		15	14	381
	6	Yes		13	15.3	306.7
	7	Yes		14	13.5	366.5
	8	YEs		16	11.3	287.7
	9	Yes		14	17.8	432.2
	10	YEs		14	17.4	409.6
	11	Yes		15	17.1	295.9
	12	YEs		15	17.3	210.7
	13	YEs		13	18	445
	14	YEs		16	18.8	271.2
	15		No	13	19.1	238.9
	16		No	14	13.5	469.5
	17	Yes		16	13.9	216.1
	18	Yes		13	17.8	390.2
	19	Yes		16	15.1	473.9
	20	Yes		14	14.4	414.6
	21		No	14	16	194
	22	Yes		12	14.2	449.8
	23	YEs		16	14.1	426.9
	24	YEs		12	14.3	273.7
	25	yes		14	17.4	251.6
	26	Yes		13	16.5	353.5
	27		No	15	18.6	315.4
	28	Yes		14	13.8	281.2
	29	Yes		12	19.1	251.9
	30	Yes		16	12.7	322.3

83%

25

5

Type5

				Percent Detected	Limit	Result
				97%	80%	Pass

Radar Test Signal # Table	Trial #	Detection	
		Yes	No
	1	Yes	
	2	Yes	
	3	Yes	
	4	Yes	
	5	Yes	
	6	Yes	
	7	Yes	
	8	Yes	
	9	Yes	
	10	Yes	
	11	Yes	
	12	Yes	
	13	Yes	
	14	Yes	
	15	Yes	
	16	Yes	
	17	Yes	
	18	Yes	
	19		No
	20	Yes	
	21	Yes	
	22	Yes	
	23	Yes	
	24	Yes	
	25	Yes	
	26	Yes	
	27	Yes	
	28	Yes	
	29	Yes	
	30	Yes	

97%

29

1

Type6

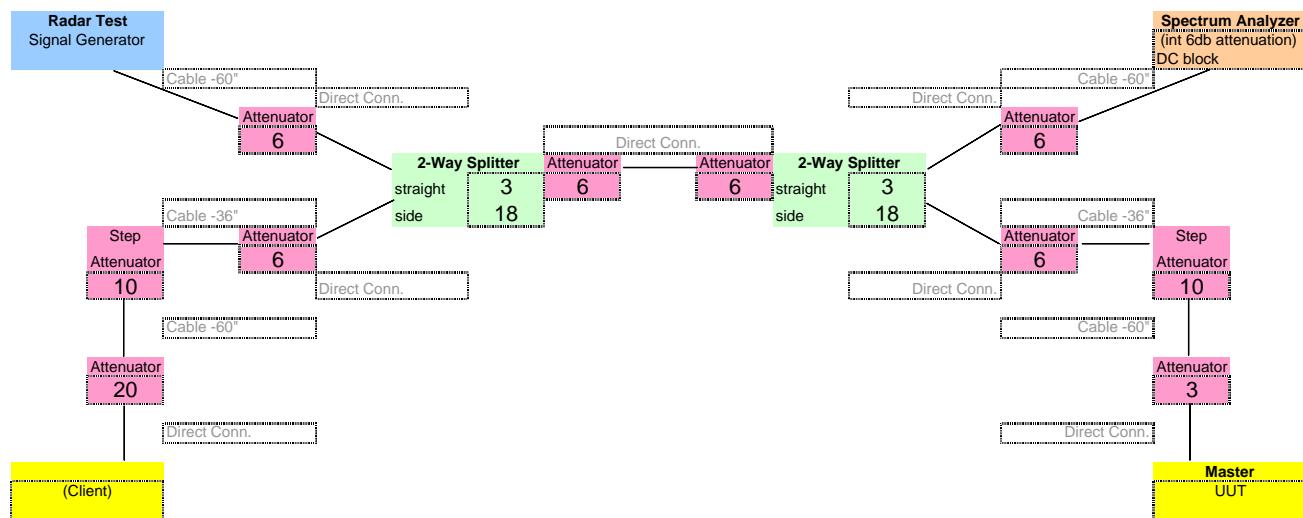
				Percent Detected	Limit	Result
				97%	70%	Pass

Radar Test Signal # Table	Trial #	Detection	
		Yes	No
	1	Yes	
	2	Yes	
	3	Yes	
	4	Yes	
	5	Yes	
	6	Yes	
	7	Yes	
	8	Yes	
	9	Yes	
	10	Yes	
	11	Yes	
	12	Yes	
	13	Yes	
	14	Yes	
	15	Yes	
	16	Yes	
	17	Yes	
	18	Yes	
	19		No
	20	Yes	
	21	Yes	
	22	Yes	
	23	Yes	
	24	Yes	
	25	Yes	
	26	Yes	
	27	Yes	
	28	Yes	
	29	Yes	
	30	Yes	

97%

29

1



Attenuation

Master Radar Sim	Master Spec. Anal.	Client Spec. Anal.	Client Radar Sim	Master Client	Radar Sim Spec. Anal.
3	3	20	20	3	6
10	10	10	10	10	3
6	6	6	6	6	6
3	18	3	18	3	6
6	6	6	6	6	3
6		6		6	6
3		3		3	
6		6		6	
				10	
				20	

===== 43 ===== 43 ===== 60 ===== 60 ===== 73 ===== 30 =====