

# Microsoft Corporation

1514

DFS Report #: MCSO1636



Report Prepared By Northwest EMC Inc.

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

California – Minnesota – Oregon – New York – Washington



**CERTIFICATE OF TEST** 

## Last Date of Test: October 31, 2012 Microsoft Corporation Model: Model 1514

Emissions			
Test Description	Specification	Test Method	Pass/Fail
Client Device DFS Conformance Test	FCC 15.407:2012	FCC Order, ET Docket No.03-122 (FCC 06-96)	Pass
	EN 301 893 V1.6.1:2011	EN 301 893 V1.6.1:2011	Pass

## **Deviations From Test Standards**

None

Approved By:

Tim O'Shea, Operations Manager

NVLAP Lab Code: 200630-0

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).

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

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



# **REVISION HISTORY**

Revision Number		Description	Date	Page Number
00	None			

## **Barometric Pressure**

The recorded barometric pressure has been normalized to sea level.



### **United States**

FCC - Designated by the FCC as a Telecommunications Certification Body (TCB). Certification chambers, Open Area Test Sites, and conducted measurement facilities are listed with the FCC.

A2LA - Accredited by A2LA to ISO / IEC Guide 65 as a product certifier. This allows Northwest EMC to certify transmitters to FCC and IC specifications.

NVLAP - Each laboratory is accredited by NVLAP to ISO 17025

### Canada

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

### **European Union**

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

### Australia/New Zealand

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

## Korea

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

#### Japan

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

### Taiwan

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

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

#### Singapore

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

### Hong Kong

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

### Vietnam

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

### Russia

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

# SCOPE

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



LOCATIONS





Oregon Labs EV01-EV12 22975 NW Evergreen Pkwy, #400 Hillsboro, OR 97124 (503) 844-4066	<b>California</b> Labs OC01-OC13 41 Tesla Irvine, CA 92618 (949) 861-8918	New York Labs WA01-WA04 4939 Jordan Rd. Elbridge, NY 13060 (315) 685-0796	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			
VCCI							
A-0108	A-0029		A-0109	A-0110			
Industry Canada							
2834D-1, 2834D-2	2834B-1, 2834B-2, 2834B-3		2834E-1	2834C-1			









# **PRODUCT DESCRIPTION**

# **Client and Equipment Under Test (EUT) Information**

Company Name:	Microsoft Corporation
Address:	One Microsoft Way
City, State, Zip:	Redmond, WA 98052-6399
Test Requested By:	Mike Boucher
Model:	Model 1514
First Date of Test:	October 29, 2012
Last Date of Test:	October 31, 2012
Receipt Date of Samples:	October 29, 2012
Equipment Design Stage:	Preproduction
Equipment Condition:	No Damage

## Information Provided by the Party Requesting the Test

### Functional Description of the EUT (Equipment Under Test):

A Handheld computing device with 802.11a/b/g/n 2x2 MIMO radio module operating in both 20 MHz and 40 MHz channel bandwidths. There are two integral antennas in the handheld computing device.

### Hardware, Firmware, and OS Versions:

Hardware version: DV1.OR-BB02N Firmware version: 14.1.11159.1 OS versions: Windows 8 9200.20121016

The operating frequency band(s) of the equipment.
2400 - 2483.5 MHz
5150 - 5250 MHz
5250 - 5350 MHz (DFS Band)
5470 - 5600 MHz (DFS Band)
5650 - 5725 MHz (DFS Band)
5725 - 5825 MHz

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

Client device with no radar detection and no ad-hoc capability

# 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.

The client device has no radar detection and no ad-hoc capability. A DFS-compliant Master device was used for testing. It's the CISCO Model AIR-AP1252AG-A-K9, FCC ID:LDK102061, IC: 2461B-102061

# 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 18.5 dBm.



**PRODUCT DESCRIPTION** 

# 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.

Per Section 7.7 of the FCC's DFS Procedure, testing was performed using the specified NTIA MPEG file. It streamed full motion video at 30 frames per second from the Master to the Client IP-based system.

### Transmit Power Control description.

This device does not exceed 27dBm EIRP, so no transmit power control is implemented.

### 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 client 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 1.44 minutes to complete its power-on cycle. The client device (EUT) does not have radar detection, so its power-on time is not applicable, but was measured to be 25 seconds.

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

The client device (EUT) does not have radar detection, so the parameters of the Radar Waveforms are not available to the end user.

# 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 client device (EUT) does not have radar detection, so this requirement is not applicable.

PRODUCT DESCRIPTION

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

- 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.
- 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

NORTHWEST

- 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 client device (EUT) has two 50 ohm antenna ports. A conducted DFS test was performed on each antenna port at both 20 MHz and 40 MHz channel bandwidths.

The antenna gain of the client device was measured by Microsoft. The maximum gain in the 5 GHz bands is 6 dBi. The antenna gain values were obtained with the antennas installed in the handheld computing device. Testing was performed in a Satimo SG64 chamber which records full 3D antenna patterns.

The power levels to the antenna are measured at the antenna feed, so there is no additional loss to consider between the RF power output and the antenna input.

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.



**INTRODUCTION** 

### 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).
	Minimum 80% of the UNII 99% transmission power bandwidth.
U-NII Detection 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.



**INTRODUCTION** 

### 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



# **CONFIGURATIONS**

# Configuration MCSO1636-1

Software/Firmware Running during test	
Description	Version
Windows 8	9200.20121016
Windows Media Player Classic	6.4.8.6
Test File.mpeg	none

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Handheld computing device	Microsoft	1514	000029324053

Peripherals in test se	etup boundary		
Description	Manufacturer	Model/Part Number	Serial Number
AC Adapter	Microsoft	PA-1240-06MX	021033422239
USB Mouse	Lenovo	MOEUUO	44R4351

Remote Equipment Outside of Test	Setup Boundary		
Description	Manufacturer	Model/Part Number	Serial Number
WLAN Master Access Point	Cisco	AIR-LAP1252G-A-K9	FTX123590JT

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
USB Mouse	PA	1.8m	PA	USB Mouse	Handheld computing device
DC Power	PA	1.5m	PA	AC Adapter	Handheld computing device
AC Power	PA	0.5m	PA	AC Adapter	AC Mains
PA = Cab	ole is permane	ntly attached to the de	vice. Shieldin	and/or presence of	ferrite may be unknown.

![](_page_11_Picture_0.jpeg)

# **MODIFICATIONS**

# **Equipment Modifications**

Item	Date	Test	Modification	Note	Disposition of EUT
1	10/31/2012	DFS	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled Testing was completed.

![](_page_12_Picture_1.jpeg)

# Client Device DFS Conformance Test

For a Client Device without DFS, the Channel Move Time and Channel Closing Transmission Time requirements are verified with one Short Pulse Radar.

<u>Channel Closing Transmission Time:</u> The total duration of transmissions, consisting of data signals and the aggregate of control signals, by a U-NII device during the Channel Move Time.

<u>Channel Move Time:</u> The time to cease all transmissions on the current Channel upon detection of a Radar Waveform above the DFS Detection Threshold. A Client Device will not transmit before having received appropriate control signals from a Master Device.

A Client Device will stop all its transmissions whenever instructed by a Master Device to which it is associated and will meet the Channel Move Time and Channel Closing Transmission Time requirements. The Client Device will not resume any transmissions until it has again received control signals from a Master Device.

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

Maximum Transmit Power	Value
	(See Notes 1 and 2)
$\geq$ 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	s been added to the amplitude of
the test transmission waveforms to account for variations in mea	asurement equipment. This will
ensure that the test signal is at or above the detection threshold l	evel to trigger a DFS response.

#### **DFS Response Requirement Value**

Parameter	Value
Non-occupancy period	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.

#### Setting the Test Signal Level

The radar test signal level is set at the Master Device, or the Client Device with In-Service Monitoring, as appropriate for the particular test. This device is known as the Radar Detection Device (RDD).

- When a Client Device without In-Service Monitoring is the UUT, the Master Device is the RDD.
- When a Client Device with In-Service Monitoring is the UUT, and is tested for response to the Master Device detections, the Master Device is the RDD.
- When a Client Device with In-Service Monitoring is the UUT, and is tested for independent response to detections by the Client Device, the Client Device is the RDD.

A spectrum analyzer is used to establish the test signal level for each radar type. During this process, there are no transmissions by either the Master Device or Client Device. The spectrum analyzer is switched to the zero span (time domain) mode at the frequency of the Radar Waveform generator. The peak detector function of the spectrum analyzer is utilized.

The signal generator amplitude and/or step attenuators are set so that the power level measured at the spectrum analyzer is equal to the DFS Detection Threshold that is required for the tests. The signal generator and attenuator settings are recorded for use during the test.

![](_page_13_Picture_1.jpeg)

# Client Device DFS Conformance Test

#### DFS MONITORING

System testing will be performed with the designated MPEG test file that streams full motion video at 30 frames per second for Channel loading. If the designated MPEG test file is not utilized then an equivalent test file will be used, subject to FCC approval.

#### **CHANNEL LOADING**

System testing will be performed with the designated MPEG test file that streams full motion video at 30 frames per second for Channel loading. If the designated MPEG test file is not utilized then an equivalent test file will be used, subject to FCC approval.

#### **TEST EQUIPMENT**

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4440	AFE	1/23/2012	12
RF Vector Signal Generator	Agilent	V2920A	TIH	NCR	0
SMA Power Divider	S.M. Electronics	MP0208-2	none	NCR	0
SMA Power Divider	S.M. Electronics	MP0208-2	none	NCR	0
Step Attenuator	Aeroflex / Weinschel	3053	26835	NCR	0
Step Attenuator	Aeroflex / Weinschel	3053	26834	NCR	0

#### **TEST DESCRIPTION**

The tests in this section are run sequentially and the UUT must pass all tests successfully. If the UUT fails any one of the tests it will count as a failure of compliance. To show compliance, all tests must be performed with waveforms randomly generated as specified with test results meeting the required percentage of successful detection criteria. All test results must be reported to the FCC. One frequency will be chosen from the operating Channels of the UUT within the 5.25-5.35 GHz and 5.47-5.725 GHz bands.

![](_page_14_Picture_0.jpeg)

![](_page_14_Picture_1.jpeg)

EUT: 1514		Work Order:	MCSO1636	
Serial Number: 000029324	053	Date:	10/31/12	
Customer: Microsoft	Corporation	Temperature:	24°C	
Attendees: None		Humidity:	52%	
Project: None		Barometric Pres.:	1004.9	
Tested by: Rod Peloo	uin Power: 120VAC/60Hz	Job Site:	EV06	
TEST SPECIFICATIONS	Test Method			
FCC 15.407:2012	FCC Order, ET Docket No.03-122	2 (FCC 06-96)		
COMMENTS				
Streaming TIA required mpeg	file. Antenna B is only used for 802.11(n) 2 stream.			
DEVINTIONS EDOM TEST OF				
DEVIATIONS FROM TEST STA	INDARD			
None	10, 50			
Configuration #	Rocking to Reling			
oomiguration #	Signature			
	ognaaro			
		Value	Limit	Result
Antenna A				
802.11(a)				
	Lower Sub-Band 5250 MHz - 5350 MHz, Channel 60			
	300 ms period	25.7 ms	N/A	N/A
	1.2s period	60.7 ms	≤ 260 ms	Pass
	12.5s period	< 1 s	≤ 10 s	Pass
	30 minute period	> 30 minutes	≥ 30 minutes	Pass
	Upper Sub-Band 5470 MHz - 5725 MHz, Channel 140			
	300 ms period	25.7 ms	N/A	N/A
	1.2s period	139.9 ms	≤ 260 ms	Pass
	12.5s period	< 1 s	≤ 10 s	Pass
	30 minute period	> 30 minutes	≥ 30 minutes	Pass
802.11(n) 4	0 MHz			
	Lower Sub-Band 5250 MHz - 5350 MHz, Channel 56 below (Channel 54 paired)			
	300 ms period	25.7 ms	N/A	N/A
	1.2s period	35.8 ms	≤ 260 ms	Pass
	12.5s period	< 1 s	≤ 10 s	Pass
	30 minute period	> 30 minutes	≥ 30 minutes	Pass
	Upper Sub-Band 5470 MHz - 5725 MHz, Channel 136 below (Channel 134 paired)			
	300 ms period	25.7 ms	N/A	N/A
	1.2s period	42.4 ms	≤ 260 ms	Pass
	12.5s period	<1s	≤ 10 s	Pass
	30 minute period	> 30 minutes	≥ 30 minutes	Pass
Antenna B				
802.11(n) 4	0 MHz			
	Lower Sub-Band 5250 MHz - 5350 MHz, Channel 56 below (Channel 54 paired)			
	300 ms period	25.7 ms	N/A	N/A
	1.2s period	2 ms	≤ 260 ms	Pass
	12.5s period	<1 s	≤ 10 s	Pass
	30 minute period	> 30 minutes	≥ 30 minutes	Pass
	Upper Sub-Band 5470 MHz - 5725 MHz. Channel 136 below (Channel 134 paired)			
	300 ms period	25 7 ms	N/A	N/A
	1 2s period	25.7 mg	< 260 ms	Pass
	125 points	20.2 1115	< 10 c	Dass
	20 minute pagind	< 1 S	$\geq 10.8$ > 20 minutos	Pass
	so minute period	> 30 minutes	≤ 30 minutes	Pass

![](_page_15_Picture_0.jpeg)

![](_page_15_Figure_2.jpeg)

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VBW 1 MHz

ويتطولون ومرد أوطرت التأخري ولتنته أمتتك وأعاد الملقي

**£**(f): FTun

Center 5.300 000 GHz

Res BW 1 MHz

مرجوبه واللاريان والمتعادين والانتخاص

Span 0 Hz

Sweep 1.2 s (8192 pts)

![](_page_16_Picture_0.jpeg)

![](_page_16_Figure_2.jpeg)

![](_page_17_Picture_0.jpeg)

![](_page_17_Figure_2.jpeg)

XMit 2012.09.20

![](_page_18_Picture_0.jpeg)

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Ref -3	0 dBm		#A1	tten 10 d	B					37.52 dB
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LgAv										
W1 S2										
S3 FS										
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Res Bk	1 MHz				#VRU 1 №	11		C	12 = -79	(102  pto)
						II 12		Sweep	12.5 5 (0	132 pts/
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	ŀ	Antenna A, 80	2.11(a), Upp	er Sub-Bano	5470 MHz	- 5725 MHz	, Channel 1 <sup>,</sup> alue	Sweep 40, 30 minut Limit	e period	sult
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₩ A Northw Ref -3 #Peak Log 5 dB/	7 g <mark>ilent</mark> 0 estEM0 1R ∳	Antenna A, 80 7:03:26 0 C, Inc	2.11(a), Upp    ct 30, 20 #A1	er Sub-Band 12 tten 10 d	B	- 5725 MHz v > 30	, Channel 1 alue minutes	40, 30 minut Limit ≥ 30 minute	e period Res S Pa A Mkr1 -	sult ss 1.8 ks 36.35 dB
<mark>⊯ A</mark> Northw Ref -3 #Peak Log 5 dB∕	T2 gilent 0 est EMC 0 dBm 1 R ♦	Antenna A, 80 7:03:26 0 C, Inc	2.11(a), Upp Ict 30, 20 #A1	er Sub-Band 12 tten 10 d	B	- 5725 MHz V > 30	, Channel 1	40, 30 minut Limit ≥ 30 minute	e period Res s Pa	sult ss 1.8 ks 36.35 dB
₩ A Northw Ref -3 #Peak Log 5 dB/ LgAv	7 g <mark>ilent 0</mark> est EM0 1 R ∳	Antenna A, 80 7:03:26 0 7, Inc	2.11(a), Upp   lct 30, 20 #A1	er Sub-Band 12 tten 10 d	B	- 5725 MHz v > 30	, Channel 1 alue minutes	40, 30 minut Limit ≥ 30 minute	e period  Res s Pa  Mkr1  -	sult ss 1.8 ks 36.35 dB
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₩     A       Northw     Ref -3       #Peak     Log       5     dB/       dB/       LgAv       M1     S2       S3     FS	T2 gilent 0 est EM0 i0 dBm	Antenna A, 80 7:03:26 0 C, Inc	2.11(a), Upp	er Sub-Band	B	- 5725 MHz V > 30	, Channel 1. alue minutes	40, 30 minut Limit ≥ 30 minute	e period  Res s Pa  A Mkr1  -	sult ss 1.8 ks 36.35 dB T3
<mark>∦ A</mark> Northw Ref -3 #Peak Log 5 dB/ LgAv LgAv M1 S2 S3 FS £(f):	7 T2 gilent 0 est EM0 0 dBm 1 R ♥	Antenna A, 80 7:03:26 0 C, Inc	2.11(a), Upp	er Sub-Band 12 tten 10 d	B	- 5725 MHz	, Channel 1	40, 30 minut Limit ≥ 30 minute R T	e period Res s Pa	sult ss 1.8 ks 36.35 dB
<pre></pre>	T2 gilent 0 est EM0 i0 dBm	Antenna A, 80 7:03:26 0 7: Inc	2.11(a), Upp	er Sub-Band	B	- 5725 MHz	, Channel 1. alue minutes	40, 30 minut Limit ≥ 30 minute R T	e period  Res s Pa  A Mkr1  -	sult ss 1.8 ks 36.35 dB Ts
<mark>⊯ A</mark> Northw Ref -3 #Peak Log 5 dB/ LgAv LgAv M1 S2 S3 FS £(f): FTun	T2 gilent 0 e st EMC 0 dBm 1 R 0 1 R 0 0 1 R 0 1 R 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Antenna A, 80 7:03:26 0 <b>C, Inc</b>	2.11(a), Upp	12 tten 10 d	B	- 5725 MHz V > 30	, Channel 1	Sweep 40, 30 minut <u>Limit</u> ≥ 30 minute R T	e period  Res s Pa  A Mkr1  -	sult ss 1.8 ks 36.35 dB Ts
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Image: Weight of the system         Ref = 3         #Peak         Log         5         dB/         LgAv         M1         \$3         FS         £(f):         FTun         Contents	F T2 gilent 0 est EM0 0 dBm 1 R ↓ 1 R ↓	Antenna A, 80 7:03:26 0 C, Inc	2.11(a), Upp	er Sub-Band	B B	- 5725 MHz V 30 30 30 30 30 30 30 30 30 30 30 30 30	, Channel 1	Sweep 40, 30 minut Limit ≥ 30 minute R T	e period  Res s Pa  A Mkr1  -	sult ss 1.8 ks 36.35 dB Ts

![](_page_19_Picture_0.jpeg)

![](_page_19_Figure_2.jpeg)

Characterie

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**£**(f): FTun

W1 S2 S3 XS

Span 0 Hz

Sweep 1.2 s (8192 pts)

![](_page_20_Picture_0.jpeg)

			<u> </u>			v	alue	Limit	Re	sult
						<	:1s	≤ 10 s	P	ass
🔆 Agi	ilent 11:5	58:06 0	ct 30, 20:	12				RT		10
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#Peak ∏			++++++++++++++++++++++++++++++++++++++							-55.24 GD
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Center 5	- 100 00									
Res BW : Antenna A	1 MHz , 802.11(n	0 GHz ) 40 MHz,	Lower Sub-B	and 5250 M	#VBW 1 M Hz-5350 M	IHz IHz, Channe	el 56 below (	Sweep : Channel 54 j	12 <b>.</b> 5 s (1	Span 0 Hz 8192 pts)_ minute period
Res BW	1 MHz	0 GHz ) 40 MHz,	Lower Sub-B	and 5250 M	#VBW 1 M	Hz Hz, Channe Vi	el 56 below ( alue	Sweep Channel 54 p	12.5 s ( paired), 30	Span Ø Hz 8192 pts)_ minute period <b>sult</b>
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Res BW : Antenna A T ** Agi Northwe	2 1 MHz 1 MHz 1 002.11(n 2 1 14:0 1 14:0	0 GHz ) 40 MHz, ) )1:21 0 Inc	Lower Sub-B	and 5250 M	#VBW 1 M Hz-5350 M	Hz Hz, Channe V; > 30	el 56 below ( alue minutes	Sweep : Channel 54 p Limit ≥ 30 minute: R T	12.5 s () paired), 30 Re s P:	Span 0 Hz 8192 pts) minute period sult ass 1.8 ks
Antenna A Antenna A T ** Ag Northwe Ref -30	2280 00 1 MHz 802.11(n 2 ilent 14:0 st EMC, 1 dBm	0 GHz ) 40 MHz, ) )1:21 0 Inc	Lower Sub-B ct 31, 20: #At	and 5250 M 12 ten 10 d	#VBW 1 M Hz - 5350 M B	Hz Hz, Channe V: > 30	el 56 below ( alue minutes	Sweep : Channel 54   Limit ≥ 30 minute: R T	12.5 s () paired), 30 <u>Re</u> s P ▲ Mkr1	Span 0 Hz 8192 pts) minute period suit ass 1.8 ks -34.44 dB
Antenna A Antenna A <b>** Ag</b> Northwe Ref -30 #Peak Ing 1	2200 00 1 MHz 802.11(n 2 ilent 14:0 st EMC, 1 dBm	0 GHz ) 40 MHz,    1:21 0 Inc	Lower Sub-B ct 31, 20 #At	and 5250 M 12 :ten 10 d	#VBW 1 M Hz - 5350 M B	Hz Hz, Channe V; > 30	alue minutes	Sweep Channel 54 p Limit ≥ 30 minute: R T	12.5 s () paired), 30 Re s P ▲ Mkr1	Span 0 Hz 8192 pts) minute period sult ass 1.8 ks -34.44 dB
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Antenna A Antenna A Antenna A Ag Northwe Ref -30 HPeak Log 14 5 dB/ LgAv M1 S2 S3 FS £(f): FTun	2 1 MHz 1 MHz 2 2 2 2 2 2 2 2 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5	0 GHz ) 40 MHz, ) 1:21 0 Inc	Lower Sub-B	and 5250 M	#VBW 1 M	Hz Hz, Channe v: > 30	el 56 below ( alue minutes	Sweep : Channel 54 p Limit ≥ 30 minute: R T 	12.5 s (1 paired), 30 Re s P: ▲ Mkr1 	Span 0 Hz 8192 pts) minute period sult ass 1.8 ks -34.44 dB Ta Ta A A A A A A A A A A A A A
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Report No. MCSO1636

![](_page_21_Picture_0.jpeg)

Antenna A, 802.11(	n) 40 MHz, Upper Sub-l	Band 5470 MHz - 5725	5 MHz, Channel 136 belo	w (Channel 134 p	paired), 300 ms period	
			Value	Limit	Result	
			25.7 ms	N/A	N/A	
🔆 🔆 Agilent 10	:27:12 Oct 30, 20	012		RT		
Northwest EMC,	Inc					
Ref -30 dBm	#A	tten 10 dB				
+Peak Log	$\begin{array}{c c} T_0 & T_1 \\ \downarrow & \downarrow \end{array}$					
5 dB/						
LgAv						
W1 S2						
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€(f): FTun						
ո <mark>ւ ժեղ չ</mark> ինդես	. القام المقاربين المقابلين	and a straight of the state of the	Line and the second states		and warding to be the free tool	
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Center 5.680 0	00 GHz				Span 0 Hz	
Res BW 1 MHz		#VBW 1	MHz	_Sweep 300.3	3 ms (8192 pts)_	

![](_page_21_Figure_3.jpeg)

![](_page_22_Picture_0.jpeg)

		1	I		1	v	alue	Limit	Resul	t
		10.00		1.0			<1s	≤ 10 s	Pass	
🔆 Aç Northwe	gilent 10: st EMC	18:26 ( Inc	Jot 30, 203	12				кі	▲ Mkr1	10 s
Ref -30	∂dBm	INC	#At	ten 10 d	IB				<b>Δ</b> ΓΙΚΙ Ι -37	7.01 dB
#Peak [	T <sub>1</sub>									
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	۲ <b>'</b>									
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		the and the state	United in the second state	paragraphic diplication	a la	A reason in a second data	distant and	a. Antibilities a	Contra da patro mare de	h Ballon, shallow and
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L										
Center Res BW Intenna A	5.680 00 1 MHz ,802.11(n)	00 GHz 40 MHz, U	Jpper Sub-Ba	nd 5470 Mł	#VBW 1 № Hz - 5725 MI	1Hz Hz, Channel	136 below	Sweep 1 (Channel 134	Sp 2.5 s (81) paired), 30 m	an 0 Hz 92 pts) inute perio
Center Res BW	5.680 00 1 MHz ,802.11(n)	90 GHz 40 MHz, U	Jpper Sub-Ba	nd 5470 Mł	#VBW 1 № Hz - 5725 MI	1Hz Hz, Channel V	136 below /alue	Sweep 1 (Channel 134 Limit	Sp .2.5 s (81) paired), 30 m <b>Resul</b>	an 0 Hz 92 pts) inute perio t
Center Res BW Intenna A	5.680 00 1 MHz , 802.11(n)	00 GHz 40 MHz, U	Jpper Sub-Ba	nd 5470 Mł	#VBW 1 № Hz - 5725 MI	1Hz Hz, Channel V > 30	136 below Value minutes	Sweep 1 (Channel 134 Limit ≥ 30 minutes	Sp .2.5 s (81) paired), 30 m <u>Resul</u> Pass	an 0 Hz 92 pts) inute perio t
Center Res BW Antenna A & Ag Northwe	5.680 00 1 MHz , 802.11(n) 72 ilent 11: 5t EMC,	20 GHz 40 MHz, U 29:32 ( Inc	Jpper Sub-Ba	nd 5470 Mł 12	#VBW 1 N Hz - 5725 MI	1Hz Hz, Channel V > 30	136 below Value minutes	Sweep 1 (Channel 134 Limit ≥ 30 minutes R T	Sp 2.5 s (81) paired), 30 m Resul Pass A Mkr1	an 0 Hz 92 pts) inute perio t 1.8 ks
Center Res BW Antenna A & Ag Northwe Ref -30	5.680 00 1 MHz ,802.11(n) 72 <b>ilent</b> 11: st EMC, dBm	20 GHz 40 MHz, U 29:32 ( Inc	JpperSub-Ba Dot 30, 20 #At	nd 5470 MH 12 :ten 10 d	#VBW 1 N Hz - 5725 MI	1Hz Hz, Channel V > 30	136 below Yalue minutes	Sweep 1 (Channel 134 Limit ≥ 30 minutes R T	Sp 2.5 s (813 paired), 30 m Resul Pass ▲ Mkr1 -35	an 0 Hz 92 pts) inute perio t 1.8 ks 5.67 dB
Center Res BW Antenna A <b>** Ag</b> Northwe Ref – 30 #Peak	5.680 00 1 MHz , 802.11(n) 72 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	00 GHz 40 MHz, U 29:32 ( Inc	Jpper Sub-Ba J Dct 30, 20 #At	nd 5470 MH 12 :ten 10 d	#VBW 1 N Hz - 5725 MI I IB	1Hz Hz, Channel V > 30	136 below /alue minutes	Sweep 1 (Channel 134 Limit ≥ 30 minutes R T	Sp 2.5 s (813 paired), 30 m <u>Resul</u> <u>Pass</u> ▲ Mkr1 -35	an 0 Hz 92 pts) inute perio t 1.8 ks 5.67 dB
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Center Res BW Antenna A <b>** Ag</b> Northwe Ref -30 #Peak Log 1 5 dB/	5.680 00 1 MHz , 802.11(n) 72 ilent 11: at EMC, dBm R	40 GHz 40 MHz, U 29:32 ( Inc	Jpper Sub-Ba Joct 30, 20: #At	nd 5470 MH 12 :ten 10 d	#VBW 1 N Hz - 5725 MI IB	1Hz Hz, Channel V > 30	136 below value minutes	Sweep 1 (Channel 134 ≥ 30 minutes R T	Sp 2.5 s (813 paired), 30 m Resul Pass ▲ Mkr1 -35	an 0 Hz 92 pts) inute perio t 1.8 ks 5.67 dB
Center Res BW Antenna A Morthwe Ref -30 #Peak Log 1 5 dB/	5.680 00 1 MHz , 802.11(n) 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	40 MHz, U 40 MHz, U 29:32 ( Inc	Jpper Sub-Ba Joct 30, 20 #At	nd 5470 MH 12 :ten 10 d	#VBW 1 N Hz - 5725 MI IB	1Hz Hz, Channel V > 30	136 below 'alue minutes	Sweep 1 (Channel 134 Limit ≥ 30 minutes R T	Sp 2.5 s (813 paired), 30 m Resul Pass ▲ Mkr1 -35	an 0 Hz 92 pts) inute perio t 1.8 ks 5.67 dB 3
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Center Res BW Antenna A Antenna A Worthwe Ref -30 HPeak Log 1 S dB/	5.680 00 1 MHz , 802.11(n) , 8	40 MHz, U 40 MHz, U 29:32 ( Inc	Jpper Sub-Ba	nd 5470 MH 12 :ten 10 d	#VBW 1 N	1Hz Hz, Channel V 30	136 below <b>falue</b> minutes	Sweep 1 (Channel 134 ≥ 30 minutes R T	Sp 2.5 s (813 paired), 30 m Resul Pass ▲ Mkr1 35	an 0 Hz 92 pts) inute perio t 1.8 ks 5.67 dB s
Center Res BW Antenna A Worthwe Ref -30 #Peak Log 1 5 dB/ LgAv	5.680 00 1 MHz , 802.11(n) F2 ilent 11: st EMC, dBm 	40 MHz, L 40 MHz, L 29:32 ( Inc	Jpper Sub-Ba	nd 5470 MH 12 :ten 10 d	#VBW 1 N	1Hz Hz, Channel V 30	136 below /alue minutes	Sweep 1 (Channel 134 Limit ≥ 30 minutes R T	Sp 2.5 s (813 paired), 30 m Resul Pass ▲ Mkr1 -35	an 0 Hz 92 pts) inute periot t 1.8 ks 5.67 dB
Center Res BW Antenna A #Peak Log 1 5 dB/ LgAv LgAv M1 S2	5.680 00 1 MHz , 802.11(n) 72 1 1 1 1 1 1 1 1 1 1 1 1 1	40 MHz, U 40 MHz, U 29:32 ( Inc	Jpper Sub-Ba	nd 5470 MH	*VBW 1 N	1Hz Hz, Channel V 30	136 below /alue minutes	Sweep 1 (Channel 134 <u>Limit</u> ≥ 30 minutes R T	Sp 2.5 s (813 paired), 30 m Resul Pass ▲ Mkr1 -35	an 0 Hz 92 pts) inute period t 1.8 ks 5.67 dB
Center Res BW Antenna A <b>** Ag</b> Northwe Ref -30 #Peak Log 1 5 dB/ Log 1 t S 4 B/ K S S S S S S S S S S S S S S S S S S	5.680 00 1 MHz , 802.11(n) 72 ilent 11: at EMC, dBm R	40 MHz, L 40 MHz, L 29:32 ( Inc	Jpper Sub-Ba	nd 5470 MH	#VBW 1 N	1Hz Hz, Channel V 30	136 below ralue minutes	Sweep 1 (Channel 134 Limit ≥ 30 minutes R T	Sp 2.5 s (81: paired), 30 m Resul Pass ▲ Mkr1 -35	an 0 Hz 92 pts) inute perio t 1.8 ks 5.67 dB s
Center Res BW Antenna A ** Ag Northwe Ref -30 *Peak Log 1 5 dB/ dB/ LgAv LgAv M1 S2 S3 FS £(f):	5.680 00 1 MHz , 802.11(n) 72 ilent 11: st EMC, dBm 	40 MHz, L 40 MHz, L 29:32 ( Inc	Jpper Sub-Ba	nd 5470 MH	#VBW 1 N	1Hz Hz, Channel V 30	136 below /alue minutes	Sweep 1 (Channel 134 Limit ≥ 30 minutes R T	Sp 2.5 s (813 paired), 30 m Resul Pass ▲ Mkr1 -35	an 0 Hz 92 pts) inute period t 1.8 ks 5.67 dB s
Center Res BW Antenna A Antenna A Worthwe Ref -30 HPeak Log 1 5 dB/ Log 1 S3 FS S3 FS £(f): FTun	5.680 00 1 MHz , 802.11(n) 2 ilent 11: st EMC, dBm R	40 MHz, U 40 MHz, U 29:32 ( Inc	Jpper Sub-Ba	nd 5470 MH	*VBW 1 N	1Hz Hz, Channel > 30	136 below /alue minutes	Sweep 1 (Channel 134 Limit ≥ 30 minutes R T	Sp 2.5 s (813 paired), 30 m Resul Pass ▲ Mkr1 -35	an 0 Hz 92 pts) inute period t 1.8 ks 5.67 dB 3
Center Res BW Antenna A Morthwe Ref -30 HPeak Log 1 S GB/ Log 1 S S K CgAv M1 S2 S3 FS £(f): FTun	5.680 00 1 MHz , 802.11(n) 1 1 1 1 1 1 1 1 1 1 1 1 1	40 MHz, L 40 MHz, L 29:32 ( Inc	Jpper Sub-Ba	nd 5470 MH	#VBW 1 N	1Hz Hz, Channel V 30	136 below alue minutes	Sweep 1 (Channel 134 ≥ 30 minutes R T	Sp 2.5 s (81: paired), 30 m Resul Pass A Mkr1 -35 -35 -35 -35 -35 -35 -35 -35	an 0 Hz 92 pts) inute period 1.8 ks 5.67 dB 3
Center Res BW Intenna A Ref -30 Peak Log 1 5 -gAv dB/ dB/ S3 FS C(f): Tun	5.680 00 1 MHz , 802.11(n) 72 ilent 11: st EMC, dBm R →	40 MHz, L 40 MHz, L 29:32 ( Inc	Jpper Sub-Ba	nd 5470 MH	#VBW 1 N	1Hz Hz, Channel V 30	136 below /alue minutes   ////////////////////////////////////	Sweep 1 (Channel 134 Limit ≥ 30 minutes R T	Sp 2.5 s (813 paired), 30 m Resul Pass ▲ Mkr1 - 35 -	an 0 Hz 92 pts) inute period t 1.8 ks 5.67 dB s

![](_page_23_Picture_0.jpeg)

Antenna B, 802.11(n) 40 MHz, Lower Sub-Bar	nd 5250 MHz - 5350 N	/Hz, Channel 56 below	(Channel 54 pa	ired), 300 ms period	
		Value	Limit	Pocult	
		25.7 ms	N/A	N/A	
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Northwest EMC Inc			K I		
Ref – 30 dBm #Atte	n 10 dB				
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Center 5.280 000 GHz				Span 0 Hz	
Res BW 1 MHz	#VBW 1 M	Hz	5weep 300.3	ms (8192 pts)_	

![](_page_23_Figure_3.jpeg)

![](_page_24_Picture_0.jpeg)

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	T1/T2	!					<1s	≤ 10 s	F	Pass
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L Center	5.280 0	100 GHz								Span 0 Hz
Res BW	1 MHz				#VBW 1 M	Hz		Sweep	12.5 s (	(8192 pts)_
Antenna I	3, 802.11	(n) 40 MHz, L	.ower Sub-B	3and 5250 N	1Hz - 5350 M	1Hz, Chann	el 56 below (	Channel 54	paired), 30	) minute period
Antenna I	3, 802.11	(n) 40 MHz, L	ower Sub-B	3and 5250 M	1Hz - 5350 M	IHz, Chann \ > 30	el 56 below ( <b>/alue</b> ) minutes	Channel 54 Limit ≥ 30 minute	paired), 30 Re s F	) minute period <b>esult</b> Pass
Antenna I	3, 802.11( 2 ilent 10	(n) 40 MHz, L	ower Sub-B	3and 5250 M	1Hz - 5350 M	IHz, Chann \ > 30	el 56 below ( <b>/alue</b> ) minutes	Channel 54 Limit ≥ 30 minute	paired), 30 R( s F	) minute period esult <sup>2</sup> ass
Antenna I ** Aç Northwe	3, 802.11( <sup>2</sup> ilent 10 st EMC,	(n) 40 MHz, L 	ower Sub-B.	3and 5250 M	IHz - 5350 M	IHz, Chann V > 30	el 56 below ( <b>/alue</b> ) minutes	Channel 54 Limit ≥ 30 minute R T	paired), 30 R( s F A Mkr1	) minute period esult <sup>2</sup> ass 1.8 ks
Antenna I <b>* Ag</b> Northwe Ref -30 #Peak	3, 802.111 2 ilent 10 st EMC, dBm	(n) 40 MHz, L :56:52 0d	ower Sub-B t 31, 20	Band 5250 M 12 tten 10 d	IHz - 5350 M	IHz, Chann \ > 30	el 56 below ( <b>/alue</b> ) minutes	Channel 54 Limit ≥ 30 minute R T	paired), 30 R( s   F ▲ Mkr1	) minute period esult <sup>5</sup> ass 1.8 ks -34.34 dB
Antenna I <b>* Ag</b> Northwe Ref -30 #Peak Log	3,802.11/ 2 ilent 10 st EMC, I dBm	(n) 40 MHz, L :56:52 00 . Inc	ower Sub-B t 31, 20 #At	3and 5250 M 12 tten 10 d	IHz - 5350 M	IHz, Chann V > 30	el 56 below ( /alue ) minutes	Channel 54 Limit ≥ 30 minute R T	paired), 30 R( s F A Mkr1	) minute period esult Pass 1.8 ks -34.34 dB
Antenna I <b>** Ag</b> Northwe Ref -30 #Peak Log 4 5 dB/	3,802.11( 2 ilent 10 st EMC, 1 dBm	(n) 40 MHz, L .56:52 Oc . Inc	.ower Sub-B	3and 5250 M 12 tten 10 d	IHz - 5350 M	IHz, Chann \ 30	el 56 below ( <b>/alue</b> ) minutes	Channel 54 <u>Limit</u> ≥ 30 minute R T	paired), 30 R( s   F ▲ Mkr1	) minute period esult Dass 1.8 ks -34.34 dB
Antenna I <b>Ref - 30</b> #Peak Log dB/	3,802.111 ilent 10 st EMC, dBm	(n) 40 MHz, L :56:52 00 Inc	.ower Sub-B	3and 5250 M 12 tten 10 d	IHz - 5350 M	Hz, Chann \ > 30	el 56 below ( Value ) minutes	Channel 54 Limit ≥ 30 minute R T	paired), 30 R( s   F ▲ Mkr1	) minute period esult <sup>2</sup> ass 1.8 ks -34.34 dB
Antenna I <b>** Ag</b> Northwe Ref -30 *Peak Log 1 5 dB/	3,802.111 2 ilent 10 st EMC, 1 dBm R	(n) 40 MHz, L .56:52 Od . Inc	.ower Sub-B	3and 5250 M 12 tten 10 d	<u>IHz - 5350 M</u> B	IHz, Chann V > 30	el 56 below ( /alue ) minutes	Channel 54 Limit ≥ 30 minuted R T	paired), 30 Rt s F ▲ Mkr1	) minute period esult 2ass 1.8 ks -34.34 dB T3
Antenna I Antenna I Action Northwe Ref -30 #Peak Log C 5 dB/	3,802.111 <sup>*</sup> 2 <b>ilent</b> 10 st EMC, <sup>I</sup> dBm R	(n) 40 MHz, L 56:52 Oc Inc	.ower Sub-B	Band 5250 M	IHz - 5350 M	IHz, Chann > 30	el 56 below ( <u>Value</u> ) minutes	Channel 54 Limit ≥ 30 minute R T	paired), 30 R( s   F A Mkr1	) minute period esult <sup>2</sup> ass 1.8 ks -34.34 dB Ts
Antenna I <b>Ref -30</b> #Peak Log dB/	3,802.111 2 ilent 10 st EMC, 1 dBm R	(n) 40 MHz, L 56:52 Oc Inc	.ower Sub-B	3and 5250 M 12 tten 10 d	IHz - 5350 M	Hz, Chann > 30	el 56 below ( /alue ) minutes	Channel 54 Limit ≥ 30 minute R T	paired), 30 Rt s F ▲ Mkr1	) minute period esult Sass - 34.34 dB Ta
Antenna I <b>Ref</b> -30 #Peak Log dB/	3,802.111 ilent 10 st EMC, I dBm	(n) 40 MHz, L 56:52 Oc Inc	.ower Sub-B	3and 5250 M 12 tten 10 d	IHz - 5350 M	IHz, Chann > 30	el 56 below ( Value ) minutes	Channel 54 Limit ≥ 30 minute R T	paired), 30 R( s   F	) minute period esult bass 1.8 ks -34.34 dB
Antenna I <b>Ref - 30</b> <b>Peak</b> Log dB/ LgAv	3,802.111 ilent 10 st EMC, dBm R	(n) 40 MHz, L 56:52 Oc Inc	.ower Sub-B	Band 5250 M	IHz - 5350 M	Hz, Chann > 30	el 56 below ( <u>Value</u> ) minutes 	Channel 54 Limit ≥ 30 minute R T	paired), 30 R( s F ▲ Mkr1	) minute period esult 'ass - 34.34 dB Ta
Antenna I <b>Ref -30</b> #Peak Log dB/ LgAv M1 S2	3,802.111 2 ilent 10 st EMC, 1 dBm R	(n) 40 MHz, L 56:52 Oc Inc	.ower Sub-B	Band 5250 M	IHz - 5350 M	Hz, Chann > 30	el 56 below ( /alue ) minutes	Channel 54 Limit ≥ 30 minute R T	paired), 30 R( s F ▲ Mkr1	) minute period esult 2ass 1.8 ks -34.34 dB T3
Antenna I Antenna I Aug Northwe Ref -30 #Peak Log 4 Log 4 J 4 C 5 dB/ LgAv M1 S2 S3 FS	3,802.111 ilent 10 st EMC, dBm R	(n) 40 MHz, L 56:52 Oc Inc	.ower Sub-B	Band 5250 M	IHz - 5350 M	Hz, Chann > 30	el 56 below ( <u>Value</u> ) minutes   	Channel 54 Limit ≥ 30 minute R T	paired), 30 R( s   F	) minute period esult ^ass 1.8 ks -34.34 dB T <sub>3</sub> 1.8 ks -34.34 dB T <sub>3</sub> 1.8 ks -34.34 dB -34.34 dB
Antenna I Antenna I Augentia Auge	3,802.111 ilent 10 st EMC, dBm	(n) 40 MHz, L	.ower Sub-B	Band 5250 M	IHz - 5350 M	Hz, Chann > 30	el 56 below ( /alue ) minutes	Channel 54 Limit R T	paired), 30 R( s   F ▲ Mkr1	) minute period esult >ass -34.34 dB Ts
Antenna Ant	3,802.111 2 ilent 10 st EMC, 1 dBm R 2 1	(n) 40 MHz, L 56:52 Oc Inc	.ower Sub-B	Band 5250 M	IHz - 5350 M	Hz, Chann > 30	el 56 below ( /alue ) minutes	Channel 54 Limit R T R T	paired), 30 R( s F ▲ Mkr1	) minute period esult 2ass 1.8 ks -34.34 dB T3 1.2 ks -34.34 dB -34.34 dB -34.3
Antenna Ant	3,802.111 ilent 10 st EMC, I dBm R >	(n) 40 MHz, L 56:52 Oc Inc	.ower Sub-B	Band 5250 M	IHz - 5350 M	Hz, Chann	el 56 below ( <u>Value</u> ) minutes 	Channel 54 Limit ≥ 30 minute R T	paired), 30 Re s F A Mkr1	) minute period esult 2ass 1.8 ks -34.34 dB Ta 1.8 ks -34.34 dB Ta 4 db 4 db
Antenna l Ref -30 #Peak Log t 5 dB/ LgAv M1 S2 S3 FS £(f): FTun	3,802.111 ilent 10 st EMC, I dBm R >	(n) 40 MHz, L 56:52 Oc Inc	.ower Sub-B	Band 5250 M	IHz - 5350 M	Hz, Chann	el 56 below ( <u>Value</u> ) minutes   	Channel 54 Limit ≥ 30 minute R T 	paired), 30 R( s   F A Mkr1	) minute period esult >ass -34.34 dB Ts -34.34 dB -34.34 dB
Antenna I ** Ag Northwe Ref -30 *Peak Log 4 5 dB/ LgAv M1 S2 S3 FS £(f): FTun	3,802.111	(n) 40 MHz, L 56:52 Oc Inc	.ower Sub-B	Band 5250 M	IHz - 5350 M	Hz, Chann	el 56 below ( /alue ) minutes	Channel 54 Limit R T R I	paired), 30 R( s F A Mkr1 A A Mkr1 A A A A A A A A A A A A A A A A A A A	) minute period esult 2ass -34.34 dB T3 -34.34 dB -34.34 dB

![](_page_25_Picture_0.jpeg)

![](_page_25_Figure_2.jpeg)

![](_page_25_Figure_3.jpeg)

![](_page_26_Picture_0.jpeg)

Antenna										
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siz A	T1/T2	·59·54_0	c+ 30 20	12		·	< 1 s	≤ 10 s	Pas	SS
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,										
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				n is the particular the second	in densi isteri		al est respected and al fait francés de la section	andra dan bura		trail is detailed
Start 5	.680 000	0 GHz						St	op 5.680	000 GHz
Res BW	1 MHz				#VBM 1	1Hz		Sweep :	12.5 s (8	192 pts)_
Antenna E	3, 802.11(n	) 40 MHz, U	pper Sub-Ba	and 5470 M	Hz - 5725 M	Hz, Channel	136 below	(Channel 134	paired), 30	minute perio
Antenna E	3, 802.11(n	) 40 MHz, U	pper Sub-Ba	and 5470 M	Hz - 5725 M	Hz, Channel	136 below	(Channel 134 Limit	paired), 30 Res	minute perio
Antenna E	3, 802.11(n)	) 40 MHz, U	pper Sub-Ba	and 5470 M	Hz - 5725 M	Hz, Channel V > 30	136 below /alue minutes	(Channel 134 <u>Limit</u> ≥ 30 minutes <b>P T</b>	paired), 30 Res	minute perio ult ss
Antenna E	3, 802.11(n) T2 ( <b>ilent</b> 14: st EMC,	) 40 MHz, U   :27:02 0   Inc	pper Sub-Ba   ct 30, 20	and 5470 M 12	Hz - 5725 M	Hz, Channel V 30	136 below /alue minutes	(Channel 134 Limit ≥ 30 minutes R T	paired), 30 Res Pas	minute perio ult ss 1.8 ks
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Antenna E Antenna E Antenna E Northwe Ref –3 #Peak Log 2	3,802.11(n T2 c <b>ilent</b> 14: st EMC, 0 dBm	) 40 MHz, U   :27:02 0:  Inc	pper Sub-Ba ct 30, 20 #A1	and 5470 M 12 tten 10 (	Hz - 5725 M	Hz, Channel V	136 below /alue minutes	(Channel 134 Limit ≥ 30 minutes R T	paired), 30 Res s Pas ▲ Mkr1	minute perio ult ss 1.8 ks 35.92 dB
Antenna E Antenna E	3,802.11(n) 72 gilent 14: st EMC, ) dBm CR	) 40 MHz, U 	pper Sub-Ba ct 30, 20 #At	12 10 10 10	Hz - 5725 M	Hz, Channel V > 30	136 below /alue minutes	(Channel 134 <u>Limit</u> ≥ 30 minutes R T	paired), 30 Res ≥ Pas ▲ Mkr1	minute perio ult ss 1.8 ks 35.92 dB
Antenna E <b>**</b> A Northwe Ref -3 #Peak Log 2 5 dB/	3,802.11(n) T2 gilent 14: st EMC, ()dBm	) 40 MHz, U 1 :27:02 0 Inc	pper Sub-Ba ct 30, 20 #A1	12 tten 10 d	Hz - 5725 M	Hz, Channel V > 30	136 below /alue minutes	(Channel 134 Limit ≥ 30 minutes R T	paired), 30 Res Pa: ▲ Mkr1	minute perio ult 1.8 ks 35.92 dB
Antenna E Antenna E Antenna E Northwe Ref -3 #Peak Log 4 5 dB/	3,802.11(n) T₂ gilent 14: st EMC, 0 dBm	) 40 MHz, U 	pper Sub-Ba ct 30, 20 #At	12 tten 10 (	Hz - 5725 M	Hz, Channel V > 30	136 below /alue minutes	(Channel 134 <u>Limit</u> ≥ 30 minutes R T	paired), 30 Res Pas Mkr1 -	minute perio ult ss 1.8 ks 35.92 dB
Antenna E <b>* A</b> Northwe Ref -3 #Peak Log 4 5 dB/	3,802.11(n) 72 gilent 14: st EMC, 1 dBm CR	) 40 MHz, U 	pper Sub-Ba	12 tten 10 d	Hz - 5725 M	Hz, Channel V > 30	136 below /alue minutes	(Channel 134 Limit ≥ 30 minutes R T	paired), 30 Res Pa: ▲ Mkr1 –	minute perio ult 1.8 ks 35.92 dB
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Antenna E <b>* A</b> Northwe Ref -3 #Peak Log 4 5 dB/ LgAv	3,802.11(n) 72 <b>gilent</b> 14: st EMC, ) dBm CR	) 40 MHz, U 27:02 0 Inc	pper Sub-Ba	12 tten 10 (	Hz - 5725 M	Hz, Channel V > 30	136 below /alue minutes	(Channel 134 Limit ≥ 30 minutes R T	paired), 30 Res Pac ▲ Mkr1 -	minute perio
Antenna E Antenna Antenna E Antenna E Antenna E Antenna E Antenna E Ant	3, 802.11(n) T₂ st EMC, 1 dBm R	) 40 MHz, U .27:02 0 Inc	pper Sub-Ba	12 tten 10 (	Hz - 5725 M	Hz, Channel V 30	136 below /alue minutes	(Channel 134 Limit ≥ 30 minutes R T	paired), 30 Res Par ▲ Mkr1 	minute perio
Antenna E <b>* A</b> Northwe Ref -3 #Peak Log 4 5 dB/ LgAv LgAv M1 S2 S3 FS	3, 802.11(n) <b>cilent</b> 14: st EMC, ) dBm	) 40 MHz, U	pper Sub-Ba	12 tten 10 (	Hz - 5725 M	Hz, Channel V 30	136 below /alue minutes	(Channel 134 Limit ≥ 30 minutes R T	paired), 30  Res Parenter A Mkr1	minute perio
Antenna E Antenna Antenna E Antenna E Antenna E Antenna E Antenna E Ant	3, 802.11(n) T₂ st EMC, 1 dBm R	) 40 MHz, U .27:02 0 Inc	pper Sub-Ba	and 5470 M	Hz - 5725 M	Hz, Channel V 30	I 136 below /alue minutes	(Channel 134 Limit ≥ 30 minutes R T	paired), 30  Res  A Mkr1	minute perio
Antenna E Antenna E Northwe Ref -3 #Peak Log 4 5 dB/ LgAv LgAv M1 S2 S3 FS £(f): FTun	3, 802.11(n) 72 <b>cilent</b> 14: <b>st</b> EMC, 0 dBm 0 dBm	) 40 MHz, U	pper Sub-Ba	and 5470 M	Hz - 5725 M	Hz, Channel V > 30	136 below  /alue minutes	(Channel 134 <u>Limit</u> ≥ 30 minutes <b>R T</b> 	paired), 30  Res Par A Mkr1	minute perio
Antenna E Antenna Antenna E Antenna E Antenna E Antenna E Antenna E Antenna E Ant	3, 802.11(n) 72 5 t EMC, 1 dBm 7 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	) 40 MHz, U	pper Sub-Ba	and 5470 M	Hz - 5725 M	Hz, Channel V 30	136 below /alue minutes   / / / / / / / / / / / / /	(Channel 134 Limit ≥ 30 minutes R T	paired), 30  Res A Mkr1	minute perio
Antenna E * A Northwe Ref -3 *Peak Log * 5 dB/ LgAv M1 S2 S3 FS £(f): FTun	3, 802.11(n) T₂ cilent 14: st EMC, ) dBm CR CR CR CR CR CR CR CR CR CR	) 40 MHz, U	pper Sub-Ba	and 5470 M	Hz - 5725 M	Hz, Channel V > 30	136 below  /alue minutes	(Channel 134 Limit ≥ 30 minutes R T 	paired), 30  Res  A Mkr1	minute perio
Antenna E Antenna Antenna E Antenna E Antenna E Antenna E Antenna E Ant	3, 802.11(n) 72 9 ilent 14: 9 st EMC, 1 dBm 7	) 40 MHz, U 27:02 0 Inc 1 1 1 1 1 1 1 1 1 1 1 1 1	pper Sub-Ba	and 5470 M	Hz - 5725 M	Hz, Channel V > 30	136 below       /alue       minutes       ////////////////////////////////////	(Channel 134 Limit ≥ 30 minutes R T	paired), 30  Res Paired), 30  Res Paired), 30  Res Res Res Res Res Res Res Res Res Re	minute perio

![](_page_27_Picture_0.jpeg)

## DFS CHANNEL SHUTDOWN, MOVE, NON-OCCUPANCY

XMit 2012.09.20

![](_page_27_Figure_3.jpeg)