

Summit Semiconductor

Model 444-2224 (Athena 4X)

FCC 15.407:2013

Report #: FOCU0141.1



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: May 16, 2013 Summit Semiconductor Model: Model 444-2224 (Athena 4X)

Emissions

Test Description	Specification	Test Method	Pass/Fail
Transmissions Burst Duration	FCC 15.407:2013	ANSI C63.10:2009	Pass
Peak Transmit Power	FCC 15.407:2013	ANSI C63.10:2009	Pass
Peak Power Spectral Density	FCC 15.407:2013	ANSI C63.10:2009	Pass
Emission Bandwidth	FCC 15.407:2013	ANSI C63.10:2009	Pass
Peak Excursion	FCC 15.407:2013	ANSI C63.10:2009	Pass
Frequency Stability	FCC 15.407:2013	ANSI C63.10:2009	Pass
Spurious Radiated Emissions	FCC 15.407:2013	ANSI C63.10:2009	Pass
AC Powerline Conducted Emissions	FCC 15.407:2013	ANSI C63.10:2009	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.



ACCREDITATIONS AND AUTHORIZATIONS

United States

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

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

NVLAP - Each laboratory is accredited by NVLAP to ISO 17025

Canada

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

European Union

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

Australia/New Zealand

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

Korea

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

Japan

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

Taiwan

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

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

Singapore

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

Hong Kong

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

Vietnam

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

Russia

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

SCOPE

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



MEASUREMENT UNCERTAINTY

Measurement Uncertainty

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

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

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

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



LOCATIONS

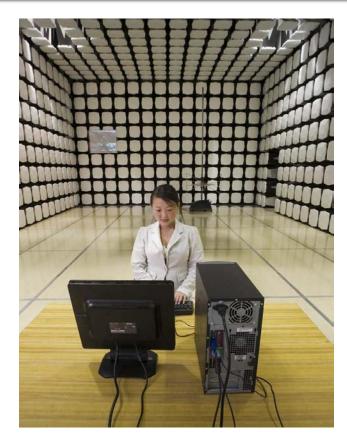




Oregon Labs EV01-12 22975 NW Evergreen Pkwy Hillsboro, OR 97124 (503) 844-4066	California Labs OC01-13 41 Tesla Irvine, CA 92618 (949) 861-8918	New York Labs NY01-04 4939 Jordan Rd. Elbridge, NY 13060 (315) 685-0796	Minnesota Labs MN01-08 9349 W Broadway Ave. Brooklyn Park, MN 55445 (763) 425-2281	Washington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









PRODUCT DESCRIPTION

Client and Equipment Under Test (EUT) Information

Company Name:	Summit Semiconductor		
Address:	22867 NW Bennett St, Suite 200		
City, State, Zip:	Hillsboro, OR 97124		
Test Requested By:	Ponnappa Pasura		
Model:	Model 444-2224 (Athena 4X)		
First Date of Test:	May 1, 2013		
Last Date of Test:	May 7, 2013		
Receipt Date of Samples:	May 1, 2013		
Equipment Design Stage:	Production		
Equipment Condition:	No Damage		

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):

Digital wireless Audio client device (Athena 4X).

The radios and RF path of the Model 444-2224 (Athena 4x) and Model 444-2225 (Athena UFL) are identical, including antenna matching components and test points, up to the integral antennas on the Model 444-2224 and the u.fl connectors on the Model 444-2225. All radio operations are identical.

Testing Objective:

Seeking modular approval of the client under FCC 15.407 for operation in the 5.2, 5.3, and 5.6 GHz bands.



Configuration FOCU0140- 4

EUT					
Description	Manufacturer	Model/Part Number	Serial Number		
Athena UFL	Summit Semiconductor	444-2225	02EA4D000027		

Peripherals in test setup boundary						
Description Manufacturer Model/Part Number Serial Number						
Topward DC Power Supply	Topward Electronic Instruments Co., LTD.	TPS-2000	946425			
Laptop DC Power Supply	Dell	AC-PA-10	Unknown			

Remote Equipment Outside of Test Setup Boundary				
Description Manufacturer Model/Part Number Serial Number				
Laptop	Dell	Latitude D820	26000021917	

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
RS232	Yes	1.7m	No	I/O to Serial Adapter	Laptop
DC Power	No	1.1m	Yes	Laptop DC Power Supply	Laptop
AC Power	No	0.8	No	AC Mains	Laptop DC Power Supply
AC Power	No	1.4m	No	AC Mains	Topward DC Supply
I/O to Serial Adapter	No	.1m	No	RS232	Athena
DC Power Cable x1	No	1.5m	No	Topward DC Power Supply	Athena
PA = Cable i	PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.				



Configuration FOCU0140-5

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Athena UFL	Summit Semiconductor	444-2225	02EA4D000027

Peripherals in test setup boundary				
Description	Manufacturer	Model/Part Number	Serial Number	
Laptop DC Power Supply	Dell	AC-PA-10	Unknown	

Remote Equipment Outside of Test Setup Boundary				
Description Manufacturer Model/Part Number Serial Number				
Laptop	Dell	Latitude D820	26000021917	

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
RS232	Yes	1.7m	No	I/O to Serial Adapter	Laptop
DC Power	No	1.1m	Yes	Laptop DC Power Supply	Laptop
AC Power	No	8.0	No	AC Mains	Laptop DC Power Supply
I/O to Serial Adapter	No	.1m	No	RS232	Athena
AC/DC Power Adapter Cable	PA	1.5m	Yes	AC Mains	Athena

PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.



Configuration FOCU0140-7

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Athena UFL	Summit Semiconductor	444-2225	02EA4D000003

Peripherals in test setup boundar	ry		
Description	Manufacturer	Model/Part Number	Serial Number
Inverted F Antenna	Тусо	Unknown	Unknown
Topward DC Power Supply	Topward Electronic Instruments Co., LTD.	TPS-2000	946425

Remote Equipment C	Outside of Test Setup Bo	undary	
Description	Manufacturer	Model/Part Number	Serial Number
Laptop	Dell	Latitude D820	26000021917

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Antenna Wires x 4	No	0.36m	No	Athena UFL	Inverted F Antenna
RS232	Yes	1.7m	No	I/O to Serial Adapter	Laptop
DC Power	No	1.1m	Yes	Laptop DC Power Supply	Laptop
AC Power	No	0.8	No	AC Mains	Laptop DC Power Supply
AC Power	No	1.4m	No	AC Mains	Topward DC Supply
I/O to Serial Adapter	No	.1m	No	RS232	Athena
DC Power Cable x1	No	1.5m	No	Topward DC Power Supply	Athena
PA = Cable i	s permaner	ntly attached to the de	evice. Shieldir	ng and/or presence of ferrite m	nay be unknown.



Configuration FOCU0141-1

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Radio Board (Athena 4X)	Summit Semiconductor	444-2224	202EA4C0001C4

Peripherals in test	setup boundary		
Description	Manufacturer	Model/Part Number	Serial Number
DC Power Supply	Topward Electronic Instruments Co., LTD.	TPS-2000	946425

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
DC Power	No	2.8m	No	DC Power Supply	Radio Board (Athena 4X)
AC Power	No	1.4m	No	AC Mains	DC Power Supply
PA = Ca	ble is permane	ntly attached to the de	vice. Shieldin	g and/or presence of ferrite ma	y be unknown.



MODIFICATIONS

Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
		Spurious	Tested as	No EMI suppression	EUT remained at
1	5/2/2013	Radiated	delivered to	devices were added or	Northwest EMC
		Emissions	Test Station.	modified during this test.	following the test.
		Transmissions	Tested as	No EMI suppression	EUT remained at
2	5/3/2013	Burst Duration	delivered to	devices were added or	Northwest EMC
		Duist Duiation	Test Station.	modified during this test.	following the test.
		Peak Power	Tested as	No EMI suppression	EUT remained at
3	5/3/2013	Spectral	delivered to	devices were added or	Northwest EMC
		Density	Test Station.	modified during this test.	following the test.
		Peak	Tested as	No EMI suppression	EUT remained at
4	5/3/2013	Excursion	delivered to	devices were added or	Northwest EMC
		LXCUISION	Test Station.	modified during this test.	following the test.
		Peak Transmit	Tested as	No EMI suppression	EUT remained at
5	5/3/2013	Power	delivered to	devices were added or	Northwest EMC
		1 OWEI	Test Station.	modified during this test.	following the test.
		Emission	Tested as	No EMI suppression	EUT remained at
6	5/3/2013	Bandwidth	delivered to	devices were added or	Northwest EMC
		Danuwidin	Test Station.	modified during this test.	following the test.
		Frequency	Tested as	No EMI suppression	EUT remained at
7	5/7/2013	Stability	delivered to	devices were added or	Northwest EMC
		Stability	Test Station.	modified during this test.	following the test.
		AC Powerline	Tested as	No EMI suppression	Scheduled testing
8	5/16/2013	Conducted	delivered to	devices were added or	was completed.
-		Emissions	Test Station.	modified during this test.	was completed.



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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	24
Attenuator, 6dB	S.M. Electronics	18N-06	AWN	3/25/2013	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	NCR	0
Power Meter	Gigatronics	8651A	SPM	1/9/2012	24
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator, 6 dB, 'SMA'	N/A	93459 3330A-6	AUF	3/5/2013	12
40GHz DC Block	Miteq	DCB4000	AMD	6/25/2012	12
Spectrum Analyzer	Agilent	E4446A	AAQ	2/7/2012	24

TEST DESCRIPTION

The transmission pulse duration (T) and Duty Cycle (x) were measured for each of the EUT operating modes per the FCC KDB 789033 D01 General UNII Test Procedures.

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

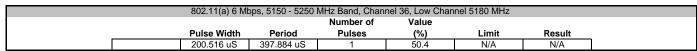
The duty cycle was calculated by dividing the transmission pulse duration (T) by the total period of a single on and total off time.

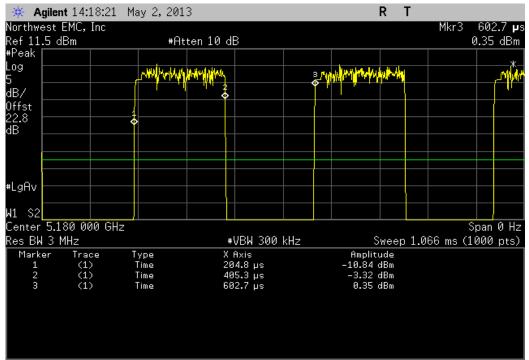
If the transmit duty cycle < 98 percent, burst gating was used during some of the other tests in this report only measure during the burst duration.



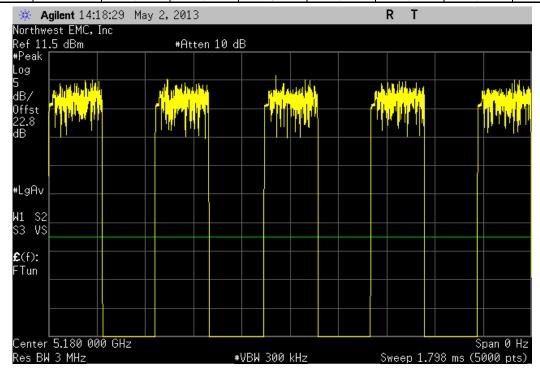
FIII	T: Model 444-2225 (Athena	UEL)				Work Order:	FOCU0140	
	r: 02EA4D000027	0. 2)					05/03/13	
	r: Summit Semiconductor					Temperature:		
Attendees		-				Humidity:		
	t: None					Barometric Pres.:		
	y: Brandon Hobbs		Power: 3.3V DC			Job Site:		
EST SPECIFICA			Test Method			Job Site:	EV00	
	HONS							
CC 15.407:2013			ANSI C63.10:2009					
OMMENTS								
III testing was co	empleted on the highest ou	tput power antenna port A2.						
	OM TEST STANDARD							
one	_							
	_		7 /1 1					
onfiguration #	5		find for					
		Signature						
					Number of	Value		_
			Pulse Width	Period	Pulses	(%)	Limit	Result
02.11(a) 6 Mbps	5450 5050 MIL 5							
	5150 - 5250 MHz Band		000 =:= *			=0.4		
		Low Channel 5180 MHz	200.516 uS	397.884 uS	1_	50.4	N/A	N/A
		Low Channel 5180 MHz	N/A	N/A	5	N/A	N/A	N/A
		High Channel 5240 MHz	199.449 uS	396.8 uS	1	50.3	N/A	N/A
	Channel 48,	High Channel 5240 MHz	N/A	N/A	5	N/A	N/A	N/A
	5250 - 5350 MHz Band							
	Channel 52,	Low Channel 5260 MHz	199.449 uS	396.783 uS	1	50.3	N/A	N/A
	Channel 52,	Low Channel 5260 MHz	N/A	N/A	5	N/A	N/A	N/A
	Channel 64.	High Channel 5320 MHz	200.551 uS	396.817 uS	1	50.5	N/A	N/A
		High Channel 5320 MHz	N/A	N/A	5	N/A	N/A	N/A
	5470 - 5725 MHz Band							
		, Low Channel 5500 MHz	200.516 uS	396.817 uS	1	50.5	N/A	N/A
), Low Channel 5500 MHz	N/A	N/A	5	N/A	N/A	N/A
		6. Mid Channel 5580 MHz	199.484 uS	396.8 uS	1	50.3	N/A	N/A
		5. Mid Channel 5580 MHz	N/A	N/A	5	N/A	N/A	N/A
), High Channel5700 MHz	200.516 uS	397.867 uS	1	50.4	N/A	N/A
), High Channel5700 MHz	200.516 dS N/A	N/A	5	N/A	N/A	N/A
02.11(a) 18 Mbps		, riigit Ottatilielo/ 00 IVIAZ	IVA	13/73	J	13/73	13//73	IN/A
oz r(a) To Mibpa	5150 - 5250 MHz Band							
		Low Channel 5180 MHz	87.484 uS	284.8 uS	1	30.7	N/A	N/A
		Low Channel 5180 MHz	N/A	N/A	5	N/A	N/A	N/A
		High Channel 5240 MHz	88.516 uS	284.766 uS	1	31.1	N/A	N/A
		High Channel 5240 MHz	88.516 uS N/A	264.766 uS N/A	5	N/A	N/A N/A	N/A N/A
	5250 - 5350 MHz Band	riigii Criailliei 3240 IVIF12	IN/A	IV/A	ن ا	IN/A	IV/A	IN/A
		Low Channel 5260 MHz	87.449 uS	293.333 uS	1	29.8	N/A	N/A
		Low Channel 5260 MHz	N/A	N/A	5	N/A	N/A	N/A
		High Channel 5320 MHz	87.501 uS	283.733 uS	1	30.8	N/A	N/A
		High Channel 5320 MHz	N/A	N/A	5	N/A	N/A	N/A
	5470 - 5725 MHz Band							
), Low Channel 5500 MHz	88.516 uS	284.8 uS	1	31.1	N/A	N/A
), Low Channel 5500 MHz	N/A	N/A	5	N/A	N/A	N/A
	Channel 116	6, Mid Channel 5580 MHz	87.501 uS	284.8 uS	1	30.7	N/A	N/A
	Ondinio 110							
		6, Mid Channel 5580 MHz	N/A	N/A	5	N/A	N/A	N/A
	Channel 116		N/A 88.568 uS	N/A 284.8 uS	5 1	N/A 31.1	N/A N/A	N/A N/A

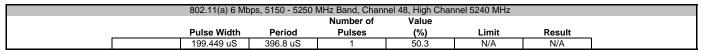


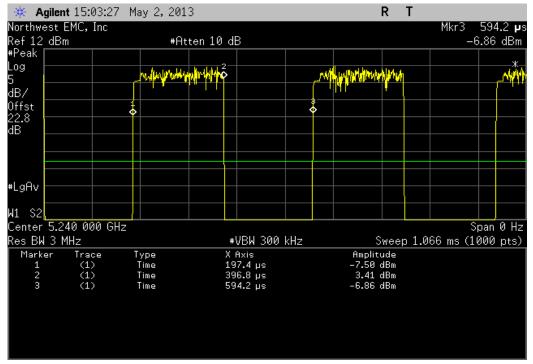




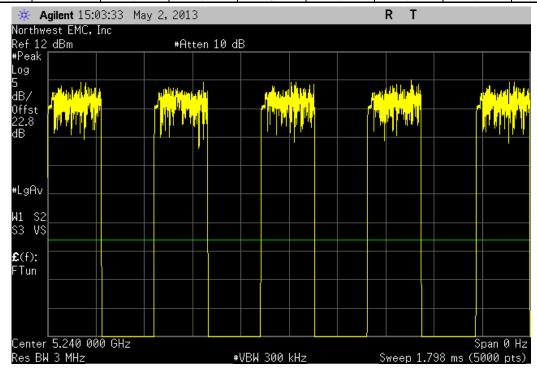
802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel 5180 MHz						
			Number of	Value		
	Pulse Width	Period	Pulses	(%)	Limit	Result
	N/A	N/A	5	N/A	N/A	N/A

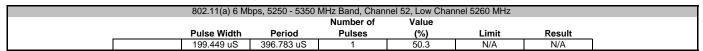


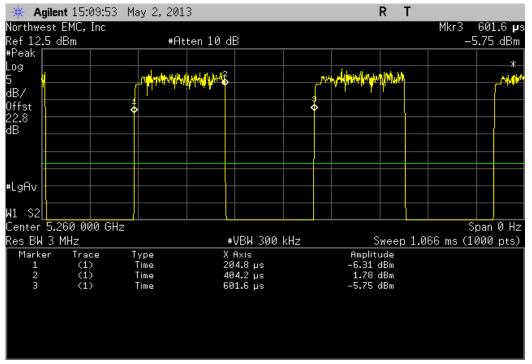




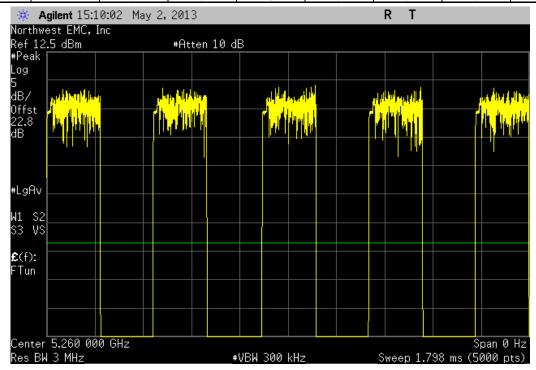
802.11(a) 6 Mb	ps, 5150 - 5250	MHz Band, Chani	nel 48, High Chai	nnel 5240 MHz	
		Number of	Value		
Pulse Width	Period	Pulses	(%)	Limit	Result
N/A	N/A	5	N/A	N/A	N/A

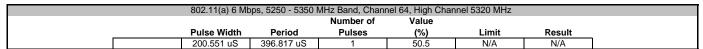


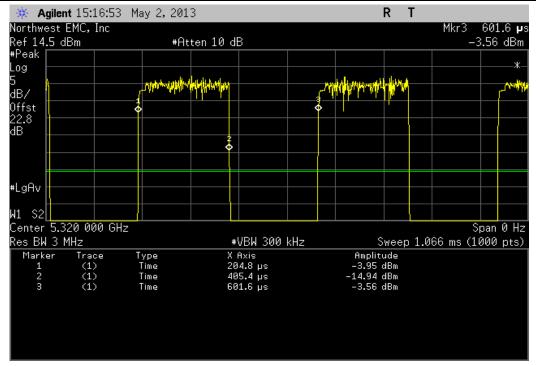




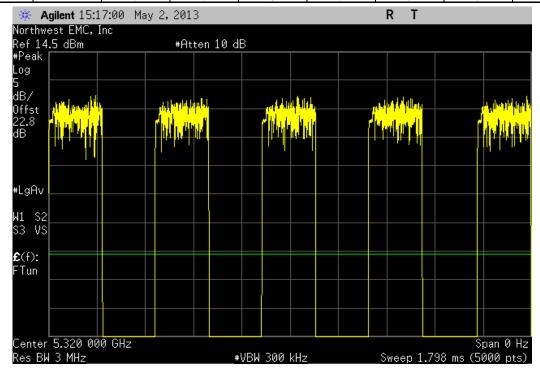
802.11(a) 6 MI	ops, 5250 - 5350	MHz Band, Chan	nel 52, Low Char	nel 5260 MHz	
		Number of	Value		
Pulse Width	Period	Pulses	(%)	Limit	Result
N/A	N/A	5	N/A	N/A	N/A



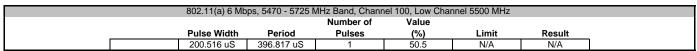


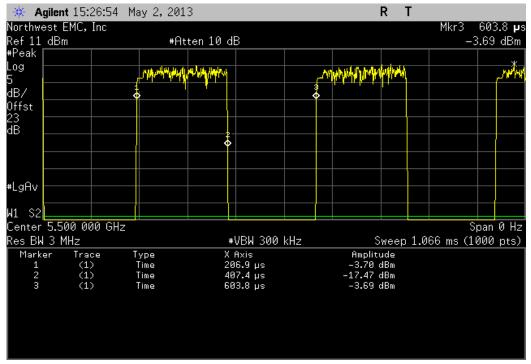


802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel 5320 MHz									
		Number of	Value						
Pulse Width	Period	Pulses	(%)	Limit	Result				
N/A	N/A	5	N/A	N/A	N/A				

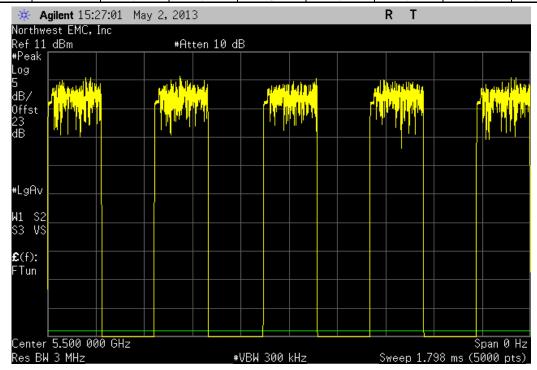


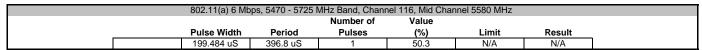


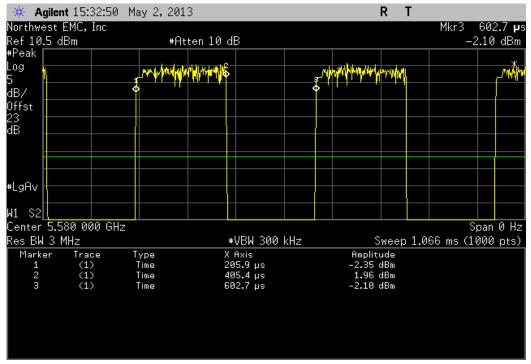




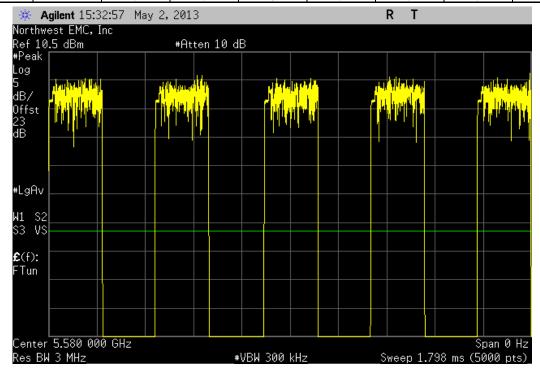
802.11(a) 6 Mb	ps, 5470 - 5725 N	//Hz Band, Chann	el 100, Low Cha	nnel 5500 MHz	
		Number of	Value		
Pulse Width	Period	Pulses	(%)	Limit	Result
N/A	N/A	5	N/A	N/A	N/A



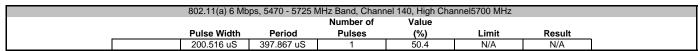


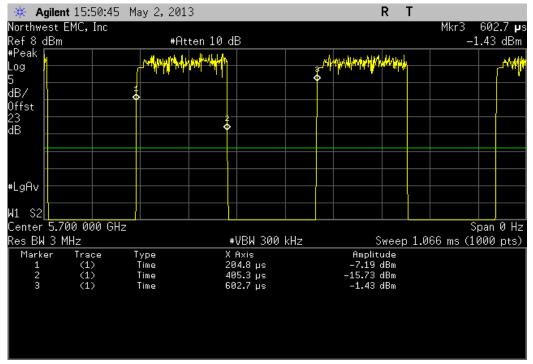


802.11(a) 6 Mb	ps, 5470 - 5725 l	MHz Band, Chanr	nel 116, Mid Chai	nnel 5580 MHz	
		Number of	Value		
Pulse Width	Period	Pulses	(%)	Limit	Result
N/A	N/A	5	N/A	N/A	N/A

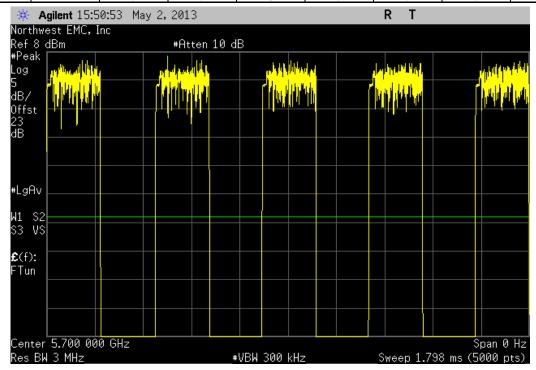


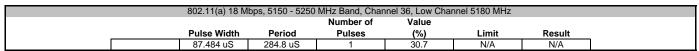


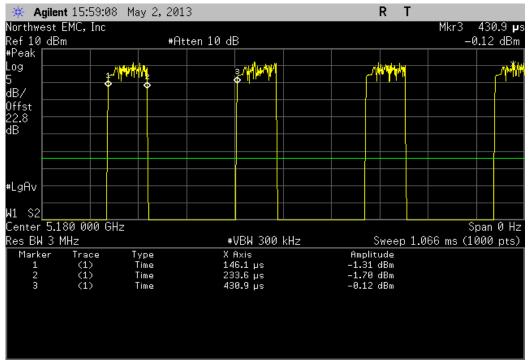




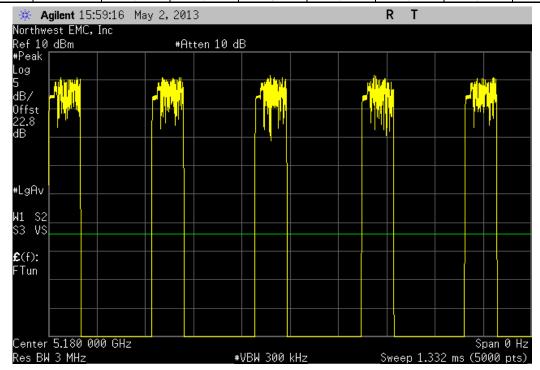
802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel5700 MHz									
		Number of	Value						
Pulse Width	Period	Pulses	(%)	Limit	Result				
N/A	N/A	5	N/A	N/A	N/A				

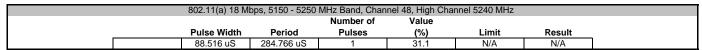


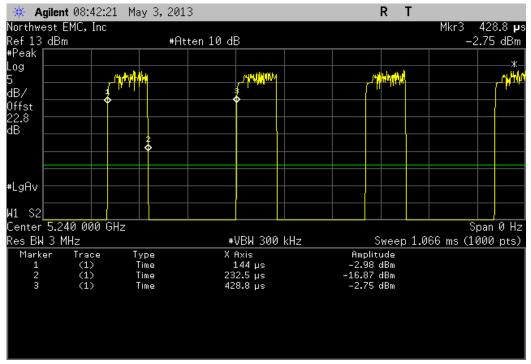




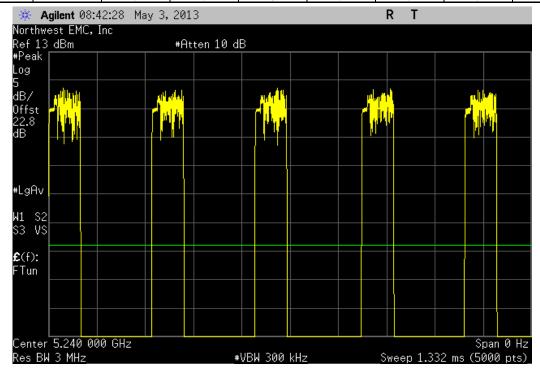
802.11(a) 18 M	bps, 5150 - 5250	MHz Band, Char	nnel 36, Low Cha	nnel 5180 MHz	
		Number of	Value		
Pulse Width	Period	Pulses	(%)	Limit	Result
N/A	N/A	5	N/A	N/A	N/A

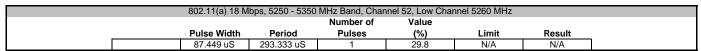


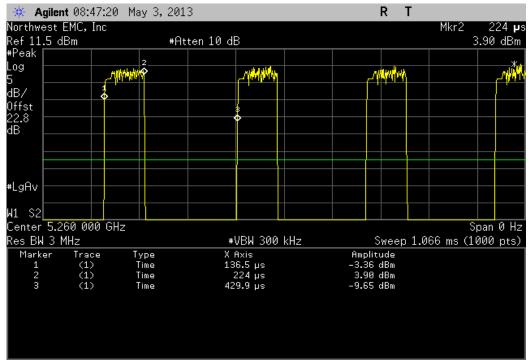




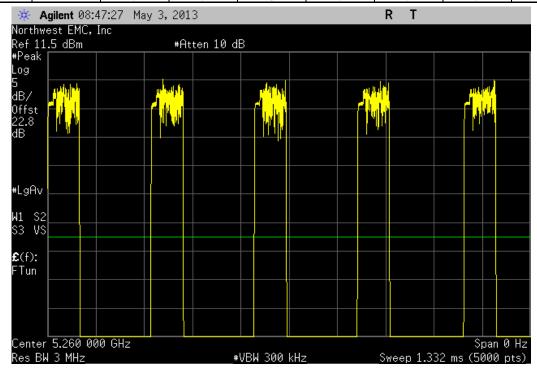
802.11(a) 18 M	bps, 5150 - 5250	MHz Band, Chan	nel 48, High Cha	nnel 5240 MHz	
		Number of	Value		
Pulse Width	Period	Pulses	(%)	Limit	Result
N/A	N/A	5	N/A	N/A	N/A

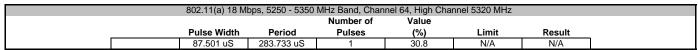


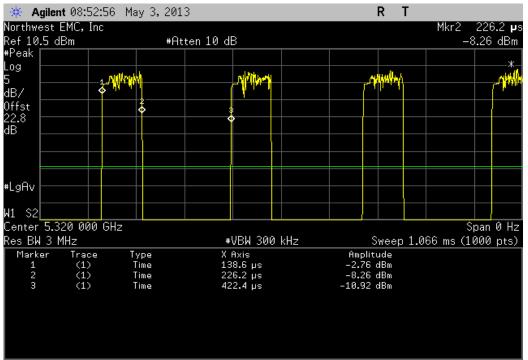




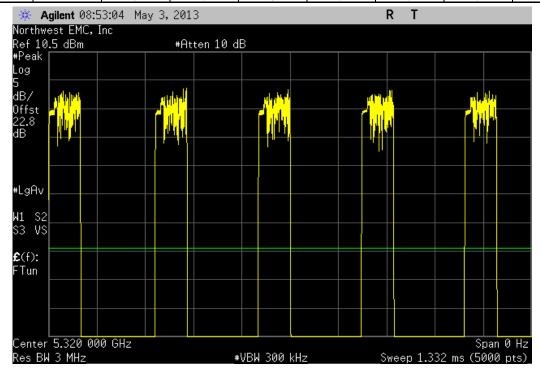
802.11(a) 18 M	bps, 5250 - 5350	MHz Band, Char	nnel 52, Low Cha	nnel 5260 MHz	
		Number of	Value		
Pulse Width	Period	Pulses	(%)	Limit	Result
N/A	N/A	5	N/A	N/A	N/A

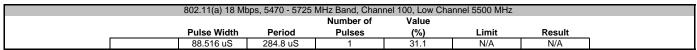


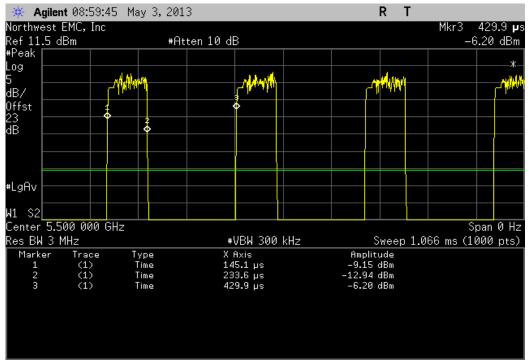




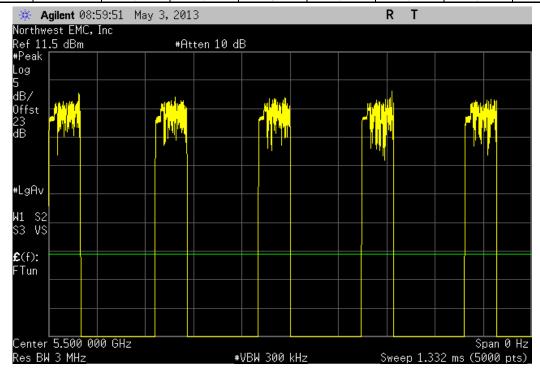
802.11(a) 18 M	ops, 5250 - 5350	MHz Band, Chan	nel 64, High Cha	nnel 5320 MHz	
		Number of	Value		
Pulse Width	Period	Pulses	(%)	Limit	Result
N/A	N/A	5	N/A	N/A	N/A

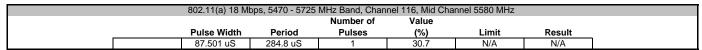


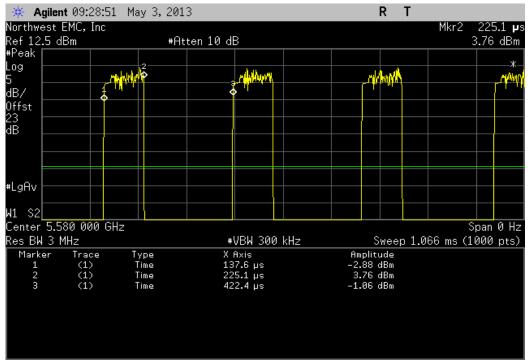




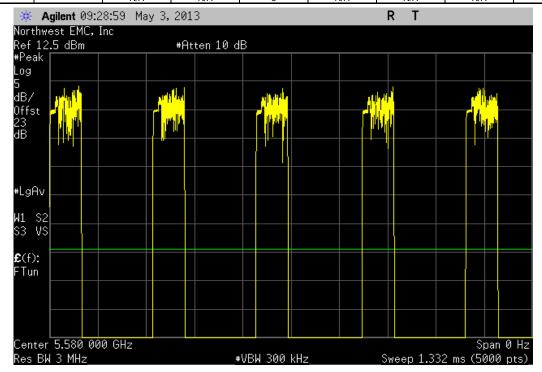
802.11(a) 18 MI	ops, 5470 - 5725	MHz Band, Chan	nel 100, Low Cha	annel 5500 MHz	
		Number of	Value		
Pulse Width	Period	Pulses	(%)	Limit	Result
N/A	N/A	5	N/A	N/A	N/A

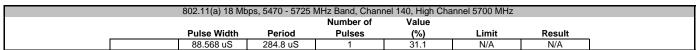


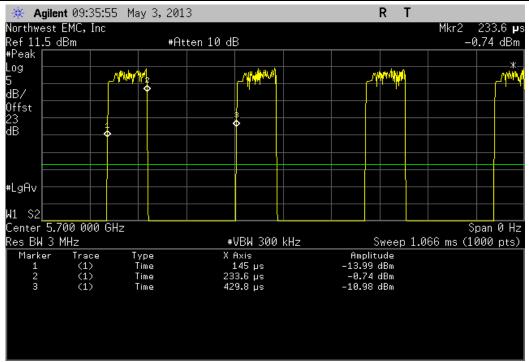




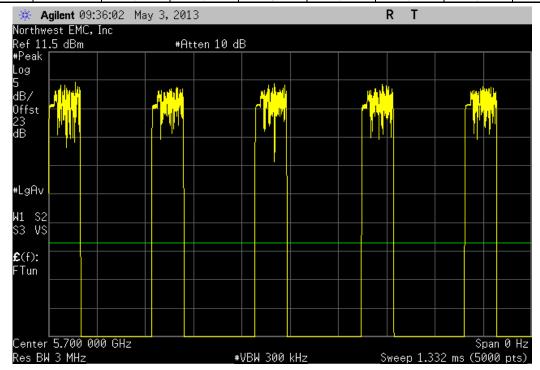
802.11(a) 18 MI	ps, 5470 - 5725	MHz Band, Chan	nel 116, Mid Cha	nnel 5580 MHz	
		Number of	Value		
Pulse Width	Period	Pulses	(%)	Limit	Result
N/A	N/A	5	N/A	N/A	N/A







802.11(a) 18 Mb	ps, 5470 - 5725 I	MHz Band, Chani	nel 140, High Cha	annel 5700 MHz	
		Number of	Value		
Pulse Width	Period	Pulses	(%)	Limit	Result
N/A	N/A	5	N/A	N/A	N/A





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
Attenuator, 6dB	S.M. Electronics	18N-06	AWN	3/25/2013	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	NCR	0
Power Meter	Gigatronics	8651A	SPM	1/9/2012	24
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	24
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator, 6 dB, 'SMA'	N/A	93459 3330A-6	AUF	3/5/2013	12
40GHz DC Block	Miteq	DCB4000	AMD	6/25/2012	12
Spectrum Analyzer	Agilent	E4446A	AAQ	2/7/2012	24

TEST DESCRIPTION

FCC KDB 789033 D01 General UNII Test Procedures Section E was followed. The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum. The data rate(s) listed in the datasheet were tested. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input.

Prior to measuring peak power spectral density, the transmission pulse duration (T) was measured. The transmission pulse duration and the associated data are found elsewhere in this test report.

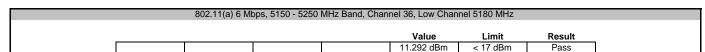
The spectrum analyzer settings were as follows:

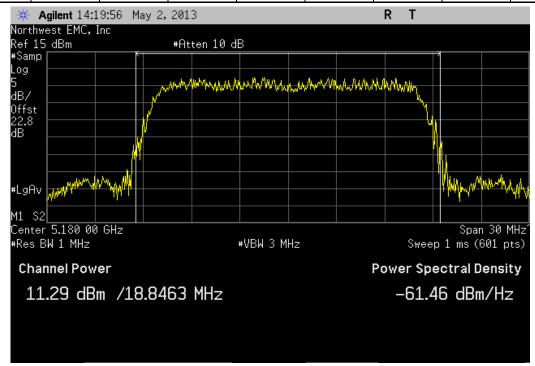
- >The span was set to encompass entire emission bandwidth (B), centered on the transmit channel.
- ≽RBW = 1 MHz, VBW ≥ 3 MHz
- >Sample detector was used because Method SA-1 Alternate was used to measure the Maximum Conducted Output Power.
- ➤ Trace average 100 traces in power averaging mode (not video averaging).

The peak power spectral density (PPSD) was determined to be the highest level found across the emission in any 1 MHz band after 100 sweeps of power averaging (not video averaging).

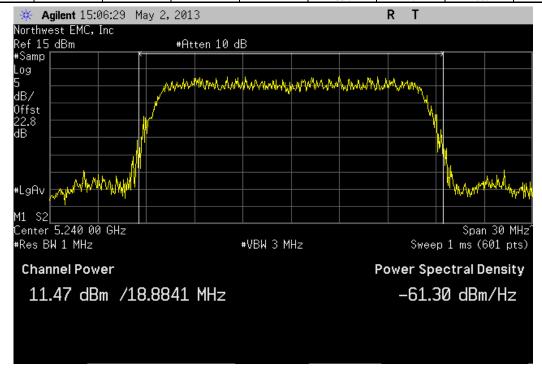


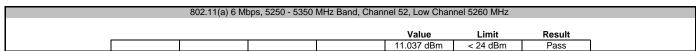
	Model 444-2225 (Athena UFL)	·	Work Order: FOCU0140						
Serial Number:	02EA4D000027		Date:	05/03/13					
Customer:	Summit Semiconductor			Temperature: 24°C					
Attendees:			Humidity:						
Project:			Barometric Pres.:						
	Brandon Hobbs	Power: 3.3V DC	Job Site:	EV06					
EST SPECIFICATION	DNS	Test Method							
CC 15.407:2013		ANSI C63.10:2009							
COMMENTS									
All testing was com	pleted on the highest output power antenna port A2.								
DEVIATIONS FROM	TEST STANDARD								
lone									
		7 / .							
Configuration #	5	Jan Jan							
	Signature	7							
			Value	Limit	Result				
02.11(a) 6 Mbps									
	5150 - 5250 MHz Band								
	Channel 36, Low Channel 5180 MHz		11.292 dBm	< 17 dBm	Pass				
	Channel 48, High Channel 5240 MHz		11.465 dBm	< 17 dBm	Pass				
	5250 - 5350 MHz Band								
	Channel 52, Low Channel 5260 MHz		11.037 dBm	< 24 dBm	Pass				
	Channel 64, High Channel 5320 MHz		11.037 dBm 11.419 dBm	< 24 dBm < 24 dBm	Pass Pass				
į.	Channel 64, High Channel 5320 MHz 5470 - 5725 MHz Band		11.419 dBm	< 24 dBm	Pass				
ŀ	Channel 64, High Channel 5320 MHz 5470 - 5725 MHz Band Channel 100, Low Channel 5500 MHz		11.419 dBm 11.275 dBm	< 24 dBm	Pass				
į	Channel 64, High Channel 5320 MHz 5470 - 5725 MHz Band Channel 100, Low Channel 5500 MHz Channel 116, Mid Channel 5580 MHz		11.419 dBm 11.275 dBm 11.051 dBm	< 24 dBm < 24 dBm < 24 dBm	Pass Pass Pass				
	Channel 64, High Channel 5320 MHz 5470 - 5725 MHz Band Channel 100, Low Channel 5500 MHz		11.419 dBm 11.275 dBm	< 24 dBm	Pass				
02.11(a) 18 Mbps	Channel 64, High Channel 5320 MHz 5470 - 5725 MHz Band Channel 100, Low Channel 5500 MHz Channel 116, Mid Channel 5580 MHz Channel 140, High Channel5700 MHz		11.419 dBm 11.275 dBm 11.051 dBm	< 24 dBm < 24 dBm < 24 dBm	Pass Pass Pass				
02.11(a) 18 Mbps	Channel 64, High Channel 5320 MHz 5470 - 5725 MHz Band Channel 100, Low Channel 5500 MHz Channel 116, Mid Channel 5580 MHz Channel 140, High Channel5700 MHz		11.419 dBm 11.275 dBm 11.051 dBm 11.267 dBm	< 24 dBm < 24 dBm < 24 dBm < 24 dBm	Pass Pass Pass Pass				
02.11(a) 18 Mbps	Channel 64, High Channel 5320 MHz 5470 - 5725 MHz Band Channel 100, Low Channel 5500 MHz Channel 116, Mid Channel 5580 MHz Channel 140, High Channel5700 MHz 5150 - 5250 MHz Band Channel 36, Low Channel 5180 MHz		11.419 dBm 11.275 dBm 11.051 dBm 11.267 dBm 11.049 dBm	< 24 dBm < 24 dBm < 24 dBm < 24 dBm	Pass Pass Pass Pass Pass				
02.11(a) 18 Mbps	Channel 64, High Channel 5320 MHz 5470 - 5725 MHz Band Channel 100, Low Channel 5500 MHz Channel 116, Mid Channel 5580 MHz Channel 140, High Channel5700 MHz 5150 - 5250 MHz Band Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz		11.419 dBm 11.275 dBm 11.051 dBm 11.267 dBm	< 24 dBm < 24 dBm < 24 dBm < 24 dBm	Pass Pass Pass Pass				
02.11(a) 18 Mbps	Channel 64, High Channel 5320 MHz 5470 - 5725 MHz Band Channel 100, Low Channel 5500 MHz Channel 116, Mid Channel 5580 MHz Channel 140, High Channel5700 MHz 5150 - 5250 MHz Band Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz 5250 - 5350 MHz Band		11.419 dBm 11.275 dBm 11.051 dBm 11.267 dBm 11.049 dBm 11.712 dBm	< 24 dBm < 24 dBm < 24 dBm < 24 dBm < 17 dBm < 17 dBm	Pass Pass Pass Pass Pass Pass				
02.11(a) 18 Mbps	Channel 64, High Channel 5320 MHz 5470 - 5725 MHz Band Channel 100, Low Channel 5500 MHz Channel 116, Mid Channel 5580 MHz Channel 140, High Channel5700 MHz 5150 - 5250 MHz Band Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz 5250 - 5350 MHz Band Channel 52, Low Channel 5260 MHz		11.419 dBm 11.275 dBm 11.051 dBm 11.267 dBm 11.049 dBm 11.712 dBm	< 24 dBm < 24 dBm < 24 dBm < 24 dBm < 17 dBm < 17 dBm < 24 dBm	Pass Pass Pass Pass Pass Pass Pass				
02.11(a) 18 Mbps	Channel 64, High Channel 5320 MHz 5470 - 5725 MHz Band Channel 100, Low Channel 5500 MHz Channel 110, Mid Channel 5580 MHz Channel 140, High Channel5700 MHz 5150 - 5250 MHz Band Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz 5250 - 5350 MHz Band Channel 52, Low Channel 5260 MHz Channel 64, High Channel 5320 MHz		11.419 dBm 11.275 dBm 11.051 dBm 11.267 dBm 11.049 dBm 11.712 dBm	< 24 dBm < 24 dBm < 24 dBm < 24 dBm < 17 dBm < 17 dBm	Pass Pass Pass Pass Pass Pass				
302.11(a) 18 Mbps	Channel 64, High Channel 5320 MHz 5470 - 5725 MHz Band Channel 100, Low Channel 5500 MHz Channel 110, Mid Channel 5580 MHz Channel 140, High Channel5700 MHz 5150 - 5250 MHz Band Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz 5250 - 5350 MHz Band Channel 52, Low Channel 5260 MHz Channel 52, Low Channel 5260 MHz Channel 64, High Channel 5320 MHz 5470 - 5725 MHz Band		11.419 dBm 11.275 dBm 11.051 dBm 11.267 dBm 11.049 dBm 11.712 dBm 11.294 dBm 11.729 dBm	< 24 dBm < 24 dBm < 24 dBm < 24 dBm < 17 dBm < 17 dBm < 17 dBm < 24 dBm < 24 dBm	Pass Pass Pass Pass Pass Pass Pass Pass				
302.11(a) 18 Mbps	Channel 64, High Channel 5320 MHz 5470 - 5725 MHz Band Channel 100, Low Channel 5500 MHz Channel 110, Mid Channel 5580 MHz Channel 140, High Channel5700 MHz 5150 - 5250 MHz Band Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz 5250 - 5350 MHz Band Channel 52, Low Channel 5260 MHz Channel 64, High Channel 5320 MHz		11.419 dBm 11.275 dBm 11.051 dBm 11.267 dBm 11.049 dBm 11.712 dBm	< 24 dBm < 24 dBm < 24 dBm < 24 dBm < 17 dBm < 17 dBm < 24 dBm	Pass Pass Pass Pass Pass Pass Pass				

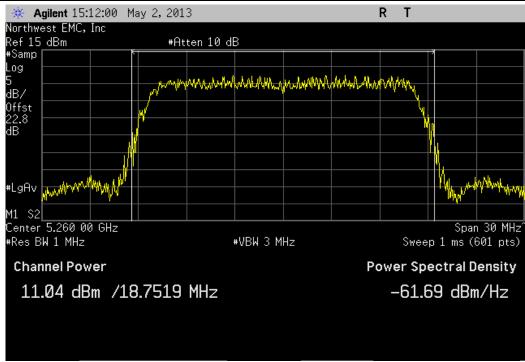




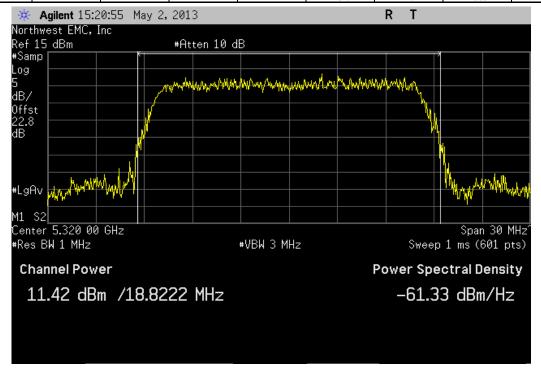
	802.11(a) 6 Mb	ps, 5150 - 5250 I	MHz Band, Chanr	nel 48, High Chan	nel 5240 MHz		
				Value	Limit	Result	_
				11.465 dBm	< 17 dBm	Pass	7

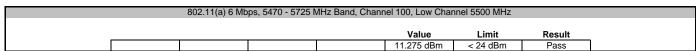


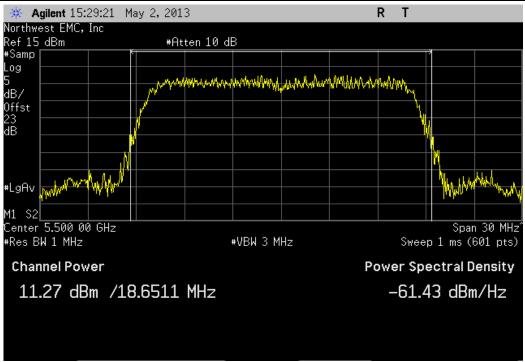




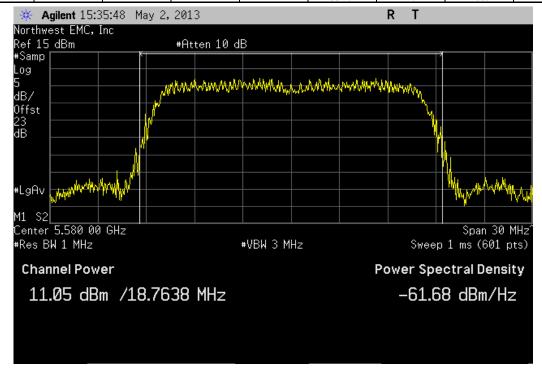
	802.11(a) 6 Mb	ps, 5250 - 5350 M	MHz Band, Chann	el 64, High Chani	nel 5320 MHz		
				17-1	1 June 14	D It	
				Value	Limit	Result	_

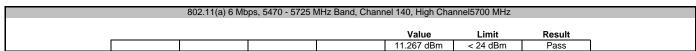






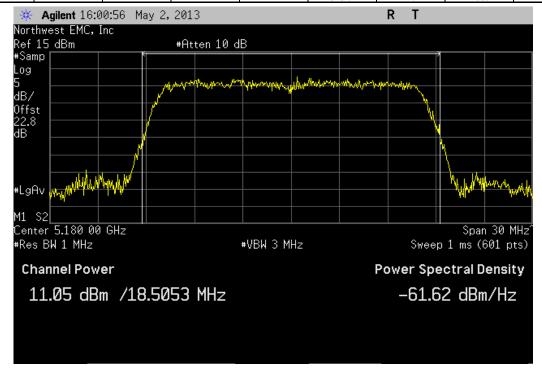
	802.11(a) 6 Mb	ps, 5470 - 5725 l	MHz Band, Chanr	nel 116, Mid Chan	nel 5580 MHz	
_				Value	Limit	Result
				11.051 dBm	< 24 dBm	Pass

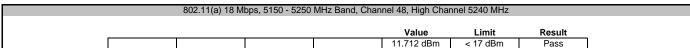


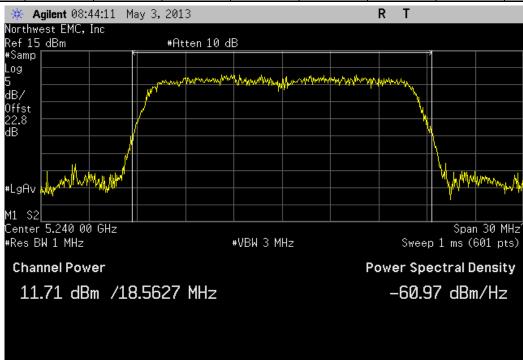




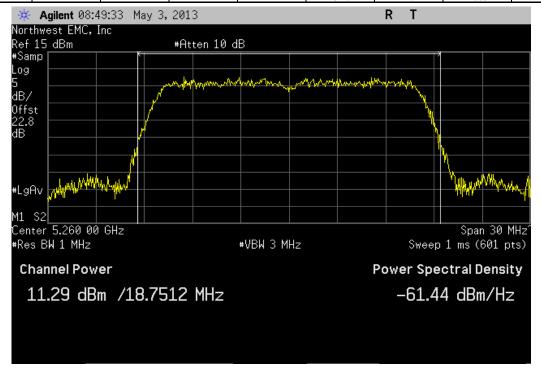
	802.11(a) 18 M	bps, 5150 - 5250	MHz Band, Chan	inel 36, Low Chan	nel 5180 MHz		
				Value	Limit	Result	_
				11.049 dBm	< 17 dBm	Pass	7

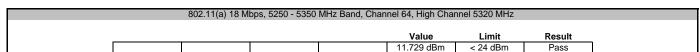


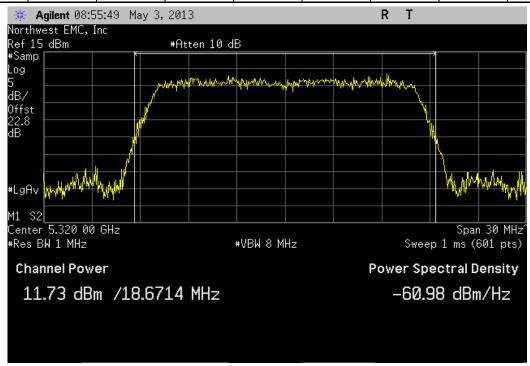


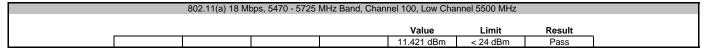


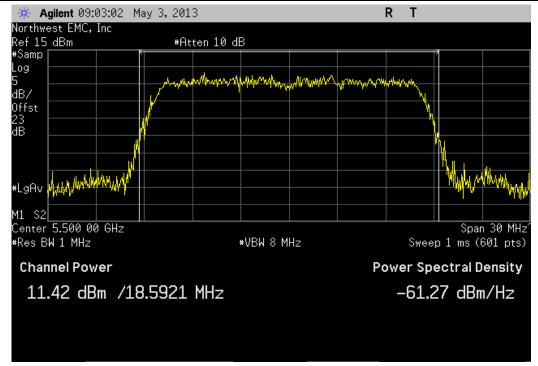
	802.11(a) 18 M	lbps, 5250 - 5350	MHz Band, Chan	nel 52, Low Chan	nel 5260 MHz		
				Value	Limit	Result	



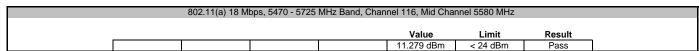


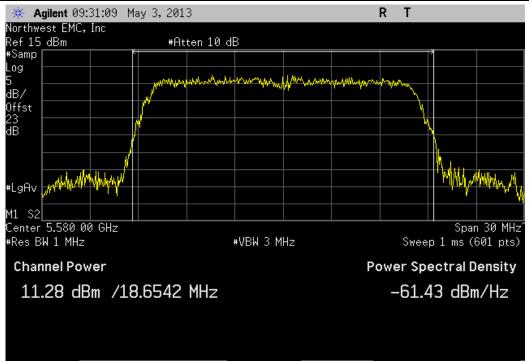




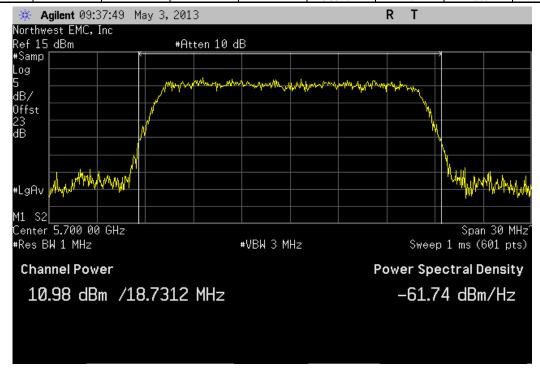


Peak Transmit Power





	802.11(a) 18 Mb	ps, 5470 - 5725 I	MHz Band, Chani	nel 140, High Cha	nnel 5700 MHz	
_				Value	Limit	Result
				10.984 dBm	< 24 dBm	Pass





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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator, 6dB	S.M. Electronics	18N-06	AWN	3/25/2013	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	NCR	0
Power Meter	Gigatronics	8651A	SPM	1/9/2012	24
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	24
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator, 6 dB, 'SMA'	N/A	93459 3330A-6	AUF	3/5/2013	12
40GHz DC Block	Miteq	DCB4000	AMD	6/25/2012	12
Spectrum Analyzer	Agilent	E4446A	AAQ	2/7/2012	24

TEST DESCRIPTION

FCC KDB 789033 D01 General UNII Test Procedures Section F was followed. The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum. The data rate(s) listed in the datasheet were tested. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input.

Prior to measuring peak power spectral density, the transmission pulse duration (T) was measured. The transmission pulse duration and the associated data are found elsewhere in this test report.

The spectrum analyzer settings were as follows:

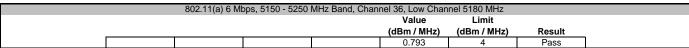
- >The span was set to encompass entire emission bandwidth (B), centered on the transmit channel.
- >RBW = 1 MHz, VBW ≥ 3 MHz
- >Sample detector was used because Method SA-1 Alternate was used to measure the Maximum Conducted Output Power.
- ➤ Trace average 100 traces in power averaging mode (not video averaging).

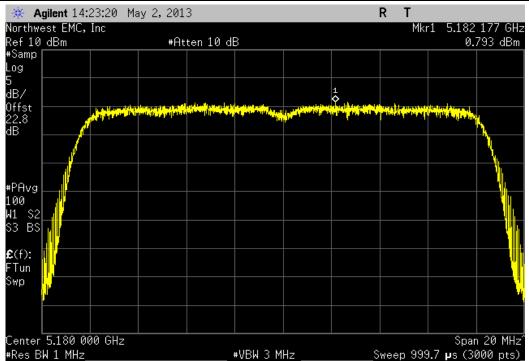
The peak power spectral density (PPSD) was determined to be the highest level found across the emission in any 1 MHz band after 100 sweeps of power averaging (not video averaging).



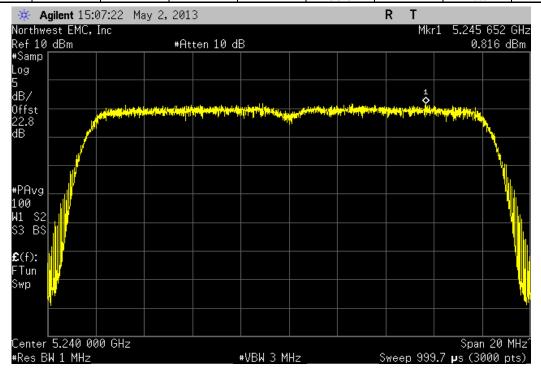
EUT:	Model 444-2225 (Athena U	JFL)		Work Order:	FOCU0140	
	02EA4D000027	,			05/03/13	
	Summit Semiconductor			Temperature:		
Attendees:				Humidity:		
Project:	None			Barometric Pres.:	1023	
	Brandon Hobbs		Power: 3.3V DC	Job Site:	EV06	
TEST SPECIFICATI	ONS		Test Method			
FCC 15.407:2013			ANSI C63.10:2009			
COMMENTS						
All testing was con	pleted on the highest out	put power antenna port A2.				
DEVIATIONS FROM	A TEOT OTANDADD					
DEVIATIONS FROM	I IESI SIANDARD					
None						
Configuration #	5		7 /1 1			
Comiguration #	,	Signature	Jan Jan			
		Signature		Value	Limit	
				(dBm / MHz)	(dBm / MHz)	Result
802.11(a) 6 Mbps				(45,)	(42, 112)	rtocuit
	5150 - 5250 MHz Band					
	Channel 36, L	ow Channel 5180 MHz		0.793	4	Pass
	Channel 48, H	ligh Channel 5240 MHz		0.816	4	Pass
	5250 - 5350 MHz Band					
		ow Channel 5260 MHz		0.993	4	Pass
	Channel 64, F	ligh Channel 5320 MHz		1.198	4	Pass
	5470 - 5725 MHz Band					
		Low Channel 5500 MHz		0.671	4	Pass
		Mid Channel 5580 MHz		0.824	4	Pass
	Channel 140,	High Channel5700 MHz		1.354	4	Pass
802.11(a) 18 Mbps						
	5150 - 5250 MHz Band					_
		ow Channel 5180 MHz		1.47	4	Pass
		ligh Channel 5240 MHz		2.758	4	Pass
	5250 - 5350 MHz Band	Ob		0.000		D
		ow Channel 5260 MHz		2.039	4	Pass
	5470 - 5725 MHz Band	ligh Channel 5320 MHz		3.791	4	Pass
		Low Channel 5500 MHz		2.419	4	Pass
					•	
		Mid Channel 5580 MHz		2.414	4	Pass
	Channel 140,	High Channel 5700 MHz		2.179	4	Pass

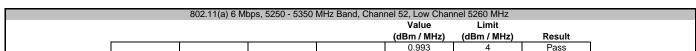


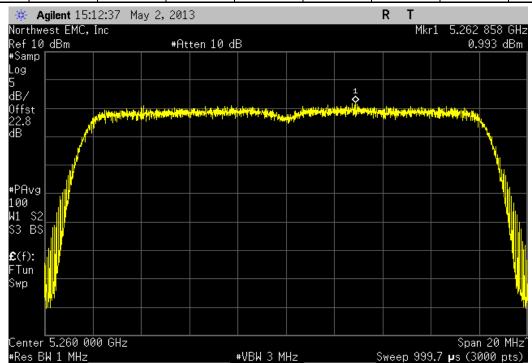


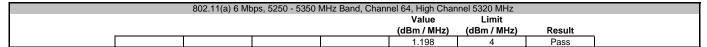


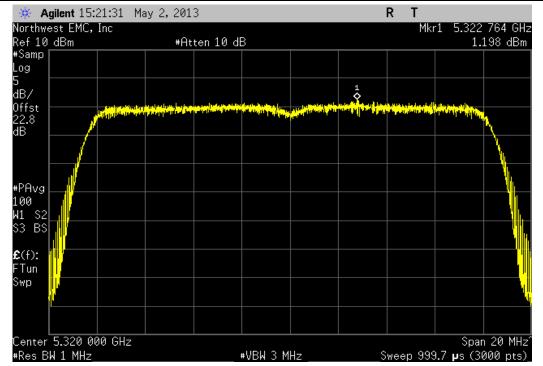
	802.11(a) 6 Mb	ps, 5150 - 5250 I	MHz Band, Chanr	el 48, High Chan	nel 5240 MHz	
				Value	Limit	
				(dBm / MHz)	(dBm / MHz)	Result
				0.816	1	Pass



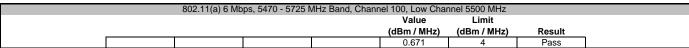


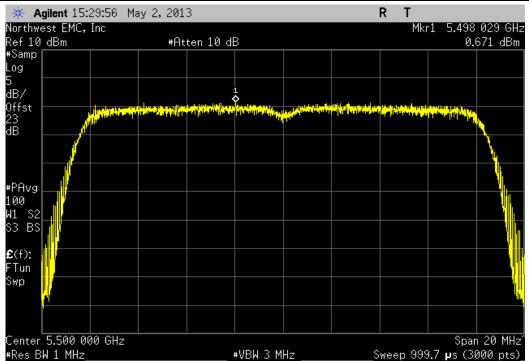




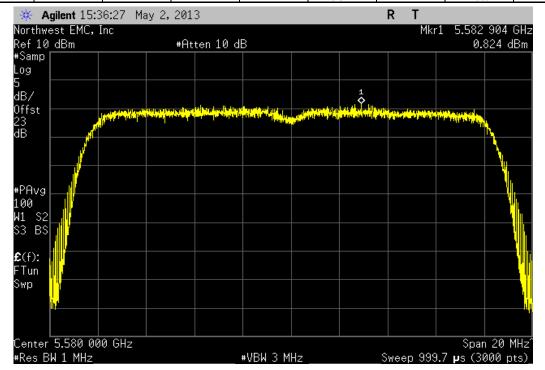


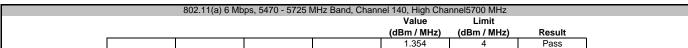


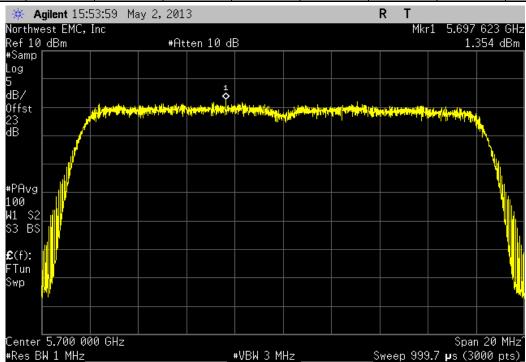


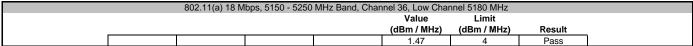


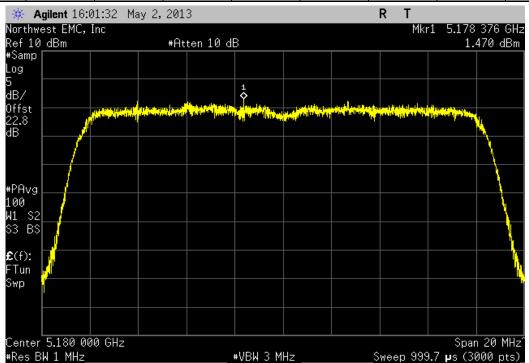
	802.11(a) 6 Mb	ps, 5470 - 5725 l	MHz Band, Chanr	nel 116, Mid Chan	inel 5580 MHz	
				Value	Limit	
				(dBm / MHz)	(dBm / MHz)	Result
				0.824	4	Pass



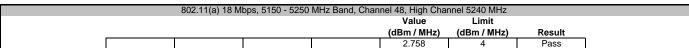


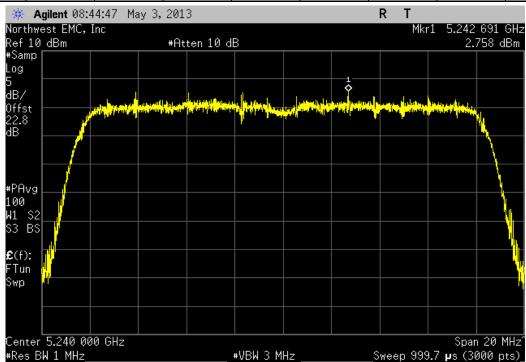




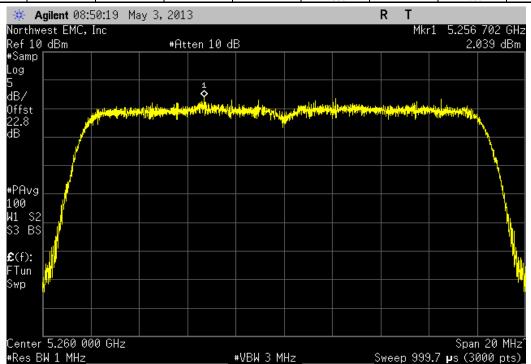


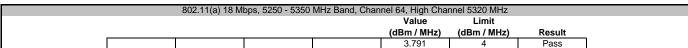


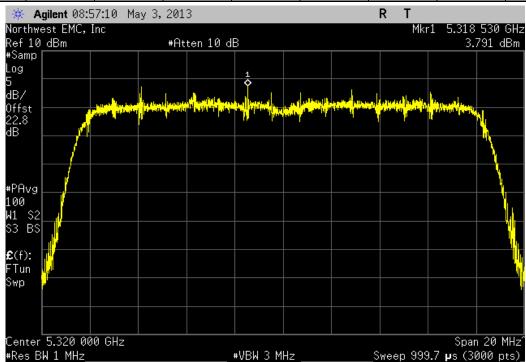


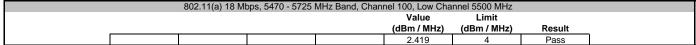


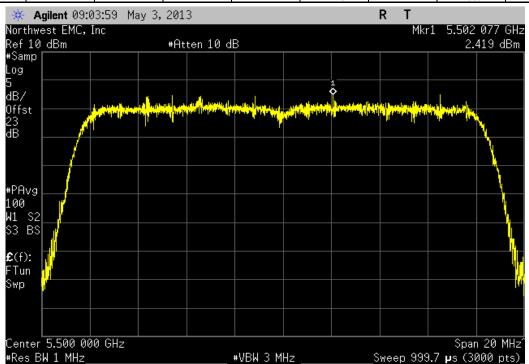
	802.11(a) 18 M	bps, 5250 - 5350	MHz Band, Char	nel 52, Low Char	nel 5260 MHz		
				Value	Limit		
				(dBm / MHz)	(dBm / MHz)	Result	
				2.039	4	Pass	



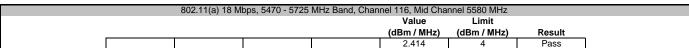


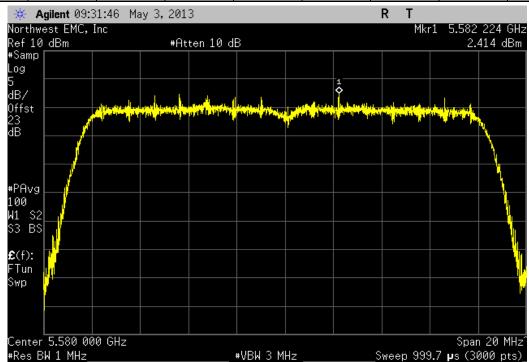




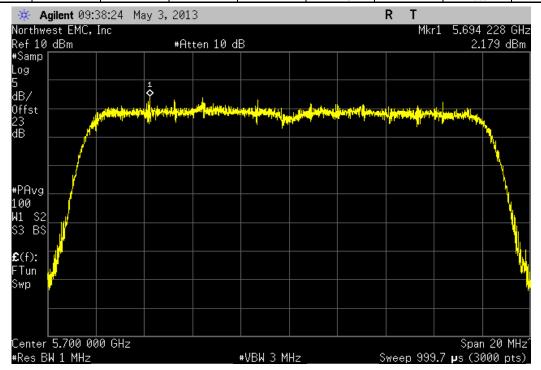








	802.11(a) 18 Mb	ps, 5470 - 5725 I	MHz Band, Chanr	nel 140, High Cha	nnel 5700 MHz	
				Value	Limit	
				(dBm / MHz)	(dBm / MHz)	Result
				2 170	1	Pass





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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator, 6dB	S.M. Electronics	18N-06	AWN	3/25/2013	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	NCR	0
Power Meter	Gigatronics	8651A	SPM	1/9/2012	24
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	24
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator, 6 dB, 'SMA'	N/A	93459 3330A-6	AUF	3/5/2013	12
40GHz DC Block	Miteq	DCB4000	AMD	6/25/2012	12
Spectrum Analyzer	Agilent	E4446A	AAQ	2/7/2012	24

TEST DESCRIPTION

FCC KDB 789033 D01 General UNII Test Procedures Section C was followed. The transmit frequency was set to the lowest, a medium, and the highest channels in each band. The transmit power was set to its default maximum. The data rate(s) listed in the datasheet were measured. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input.

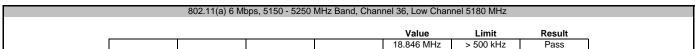
The spectrum analyzer settings were as follows:

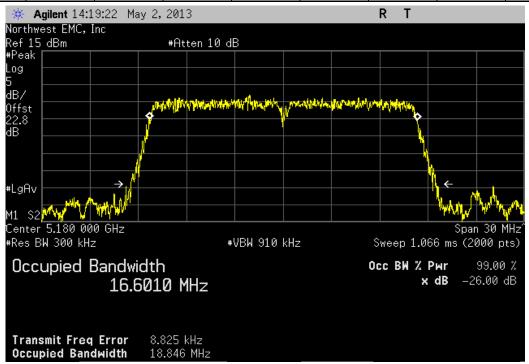
- >Span = approximately 1.5 to 2 times the emission bandwidth, centered on the transmit channel.
- >RBW = Approx. 1% of the emission bandwidth (B). This was an iterative process to determine the RBW based on the emissions bandwidth (B).
- ➤ A peak detector was used.

The spectrum analyzer Occupied Bandwidth measurement function was then used to measure 26 dB emission bandwidth.

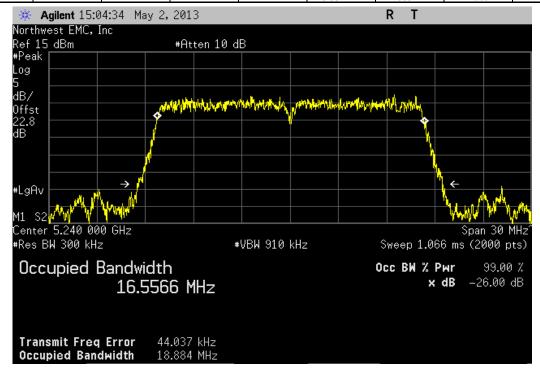


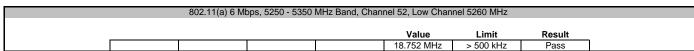
	Model 444-2225 (Athena U	JFL)		Work Order:		
Serial Number:	02EA4D000027	•		Date:	05/03/13	
Customer:	Summit Semiconductor			Temperature:		
Attendees:				Humidity:		
Project:				Barometric Pres.:		
	Brandon Hobbs		Power: 3.3V DC	Job Site:	EV06	
EST SPECIFICAT	ONS		Test Method			
CC 15.407:2013			ANSI C63.10:2009			
COMMENTS						
III testing was con	npleted on the highest outp	put power antenna port A2.				
	I TEST STANDARD					
lone	1					
Configuration #	5		J. J.			
		Signature				
				Value	Limit	Result
302.11(a) 6 Mbps						
	5150 - 5250 MHz Band					_
	Channel 36, L	Low Channel 5180 MHz		18.846 MHz	> 500 kHz	Pass
	Channel 36, L Channel 48, H	ow Channel 5180 MHz High Channel 5240 MHz		18.846 MHz 18.884 MHz	> 500 kHz > 500 kHz	Pass Pass
	Channel 36, L Channel 48, H 5250 - 5350 MHz Band	High Channel 5240 MHz		18.884 MHz	> 500 kHz	Pass
	Channel 36, L Channel 48, H 5250 - 5350 MHz Band Channel 52, L	High Channel 5240 MHz Low Channel 5260 MHz		18.884 MHz 18.752 MHz	> 500 kHz	Pass
	Channel 36, L Channel 48, H 5250 - 5350 MHz Band Channel 52, L Channel 64, H	High Channel 5240 MHz		18.884 MHz	> 500 kHz	Pass
	Channel 36, L Channel 48, H 5250 - 5350 MHz Band Channel 52, L Channel 64, H 5470 - 5725 MHz Band	-ligh Channel 5240 MHz -ow Channel 5260 MHz -ligh Channel 5320 MHz		18.884 MHz 18.752 MHz 18.822 MHz	> 500 kHz > 500 kHz > 500 kHz	Pass Pass Pass
	Channel 36, L Channel 48, H 5250 - 5350 MHz Band Channel 52, L Channel 64, H 5470 - 5725 MHz Band Channel 100,	High Channel 5240 MHz Low Channel 5260 MHz High Channel 5320 MHz Low Channel 5500 MHz		18.884 MHz 18.752 MHz 18.822 MHz 18.651 MHz	> 500 kHz > 500 kHz > 500 kHz > 500 kHz	Pass Pass Pass
	Channel 36, L Channel 48, H 5250 - 5350 MHz Band Channel 52, L Channel 64, H 5470 - 5725 MHz Band Channel 100, Channel 116,	-iigh Channel 5240 MHz -ow Channel 5260 MHz -iigh Channel 5320 MHz -Low Channel 5500 MHz 		18.884 MHz 18.752 MHz 18.822 MHz 18.651 MHz 18.764 MHz	> 500 kHz > 500 kHz > 500 kHz > 500 kHz > 500 kHz > 500 kHz	Pass Pass Pass Pass Pass Pass
	Channel 36, L Channel 48, H 5250 - 5350 MHz Band Channel 52, L Channel 64, H 5470 - 5725 MHz Band Channel 100, Channel 116,	High Channel 5240 MHz Low Channel 5260 MHz High Channel 5320 MHz Low Channel 5500 MHz		18.884 MHz 18.752 MHz 18.822 MHz 18.651 MHz	> 500 kHz > 500 kHz > 500 kHz > 500 kHz	Pass Pass Pass
302.11(a) 18 Mbps	Channel 36, L Channel 48, H 5250 - 5350 MHz Band Channel 52, L Channel 64, H 5470 - 5725 MHz Band Channel 100, Channel 116, Channel 140,	-iigh Channel 5240 MHz -ow Channel 5260 MHz -iigh Channel 5320 MHz -Low Channel 5500 MHz 		18.884 MHz 18.752 MHz 18.822 MHz 18.651 MHz 18.764 MHz	> 500 kHz > 500 kHz > 500 kHz > 500 kHz > 500 kHz > 500 kHz	Pass Pass Pass Pass Pass Pass
02.11(a) 18 Mbps	Channel 36, L Channel 48, H 5250 - 5350 MHz Band Channel 52, L Channel 64, H 5470 - 5725 MHz Band Channel 100, Channel 116, Channel 140,	-iigh Channel 5240 MHz -ow Channel 5260 MHz -iigh Channel 5320 MHz -Low Channel 5500 MHz 		18.884 MHz 18.752 MHz 18.822 MHz 18.651 MHz 18.764 MHz	> 500 kHz > 500 kHz > 500 kHz > 500 kHz > 500 kHz > 500 kHz	Pass Pass Pass Pass Pass
02.11(a) 18 Mbps	Channel 36, L Channel 48, H 5250 - 5350 MHz Band Channel 52, L Channel 64, H 5470 - 5725 MHz Band Channel 100, Channel 116, Channel 140, 5150 - 5250 MHz Band Channel 36, L	digh Channel 5240 MHz ow Channel 5260 MHz digh Channel 5320 MHz Low Channel 5500 MHz Mid Channel 5580 MHz High Channel5700 MHz ow Channel 5180 MHz		18.884 MHz 18.752 MHz 18.822 MHz 18.651 MHz 18.764 MHz 18.931 MHz	> 500 kHz > 500 kHz > 500 kHz > 500 kHz > 500 kHz > 500 kHz > 500 kHz	Pass Pass Pass Pass Pass Pass Pass
902.11(a) 18 Mbps	Channel 36, L Channel 48, H 5250 - 5350 MHz Band Channel 52, L Channel 64, H 5470 - 5725 MHz Band Channel 100, Channel 116, Channel 140, 5150 - 5250 MHz Band Channel 36, L	-iigh Channel 5240 MHz -ow Channel 5260 MHz -iigh Channel 5320 MHz -Low Channel 5500 MHz -Mid Channel 5580 MHz -High Channel 5700 MHz		18.884 MHz 18.752 MHz 18.822 MHz 18.651 MHz 18.764 MHz 18.931 MHz 18.505 MHz	> 500 kHz > 500 kHz > 500 kHz > 500 kHz > 500 kHz > 500 kHz > 500 kHz	Pass Pass Pass Pass Pass Pass Pass
902.11(a) 18 Mbps	Channel 36, L Channel 48, H 5250 - 5350 MHz Band Channel 52, L Channel 64, H 5470 - 5725 MHz Band Channel 100, Channel 110, Channel 140, 5150 - 5250 MHz Band Channel 36, L Channel 48, H	digh Channel 5240 MHz ow Channel 5260 MHz digh Channel 5320 MHz Low Channel 5500 MHz Mid Channel 5580 MHz High Channel5700 MHz ow Channel 5180 MHz		18.884 MHz 18.752 MHz 18.822 MHz 18.651 MHz 18.764 MHz 18.931 MHz 18.505 MHz	> 500 kHz > 500 kHz > 500 kHz > 500 kHz > 500 kHz > 500 kHz > 500 kHz	Pass Pass Pass Pass Pass Pass Pass
902.11(a) 18 Mbps	Channel 36, L Channel 48, H 5250 - 5350 MHz Band Channel 52, L Channel 64, H 5470 - 5725 MHz Band Channel 100, Channel 116, Channel 140, Channel 36, L Channel 48, H 5250 - 5350 MHz Band Channel 52, L	-iigh Channel 5240 MHz -ow Channel 5260 MHz -iigh Channel 5320 MHz -iigh Channel 5500 MHz -iigh Channel 5580 MHz -iigh Channel 5700 MHz -iigh Channel 5180 MHz -iigh Channel 5180 MHz -iigh Channel 5240 MHz		18.884 MHz 18.752 MHz 18.822 MHz 18.651 MHz 18.764 MHz 18.931 MHz 18.505 MHz 18.563 MHz	> 500 kHz > 500 kHz	Pass Pass Pass Pass Pass Pass Pass Pass
302.11(a) 18 Mbps	Channel 36, L Channel 48, H 5250 - 5350 MHz Band Channel 52, L Channel 64, H 5470 - 5725 MHz Band Channel 100, Channel 116, Channel 140, Channel 36, L Channel 48, H 5250 - 5350 MHz Band Channel 52, L	-iigh Channel 5240 MHz -ow Channel 5260 MHz -iigh Channel 5320 MHz -iigh Channel 5500 MHz -iigh Channel 5500 MHz -iigh Channel 5500 MHz -iigh Channel 5100 MHz -iigh Channel 5100 MHz -ow Channel 5100 MHz -ow Channel 5260 MHz		18.884 MHz 18.752 MHz 18.822 MHz 18.651 MHz 18.764 MHz 18.931 MHz 18.505 MHz 18.563 MHz 18.751 MHz	> 500 kHz > 500 kHz	Pass Pass Pass Pass Pass Pass Pass Pass
302.11(a) 18 Mbps	Channel 36, L Channel 48, H 5250 - 5350 MHz Band Channel 52, L Channel 52, L Channel 64, H 5470 - 5725 MHz Band Channel 100, Channel 110, Channel 140, 5150 - 5250 MHz Band Channel 48, H 5250 - 5350 MHz Band Channel 52, L Channel 52, L Channel 64, H	-iigh Channel 5240 MHz -ow Channel 5260 MHz -iigh Channel 5320 MHz -iigh Channel 5500 MHz -iigh Channel 5500 MHz -iigh Channel 5500 MHz -iigh Channel 5100 MHz -iigh Channel 5100 MHz -ow Channel 5100 MHz -ow Channel 5260 MHz		18.884 MHz 18.752 MHz 18.822 MHz 18.651 MHz 18.764 MHz 18.931 MHz 18.505 MHz 18.563 MHz 18.751 MHz	> 500 kHz > 500 kHz	Pass Pass Pass Pass Pass Pass Pass Pass
302.11(a) 18 Mbps	Channel 36, L Channel 48, H 5250 - 5350 MHz Band Channel 52, L Channel 64, H 5470 - 5725 MHz Band Channel 100, Channel 116, Channel 140, 5150 - 5250 MHz Band Channel 36, L Channel 48, H 5250 - 5350 MHz Band Channel 52, L Channel 52, L Channel 64, H 5470 - 5725 MHz Band Channel 100,	-iigh Channel 5240 MHz -ow Channel 5260 MHz -iigh Channel 5320 MHz -iigh Channel 5500 MHz -iigh Channel 5580 MHz -iigh Channel 5700 MHz -iigh Channel 5180 MHz -iigh Channel 5240 MHz -ow Channel 5260 MHz -iigh Channel 5200 MHz -iigh Channel 5320 MHz		18.884 MHz 18.752 MHz 18.822 MHz 18.651 MHz 18.764 MHz 18.931 MHz 18.505 MHz 18.563 MHz 18.751 MHz 18.751 MHz 18.671 MHz	> 500 kHz > 500 kHz	Pass Pass Pass Pass Pass Pass Pass Pass

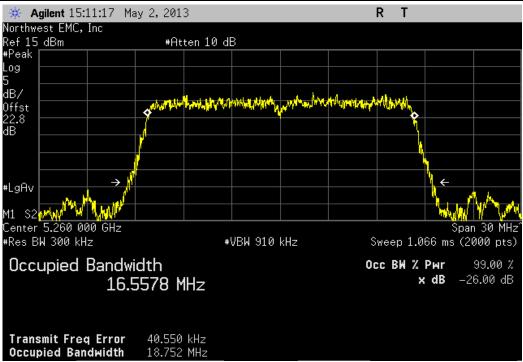




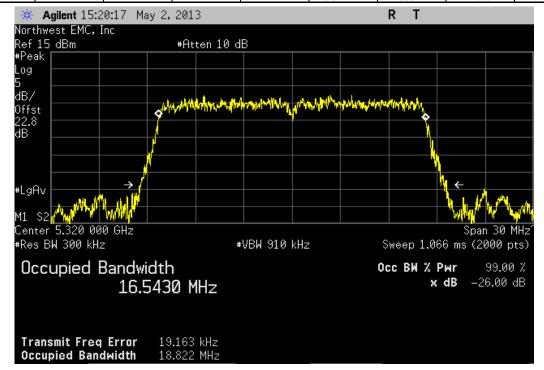
	802.11(a) 6	Mbps, 5150 - 525	0 MHz Band, Cl	nannel 48, High Chan	nel 5240 MHz		
				Value	Limit	Result	
				18.884 MHz	> 500 kHz	Pass	7

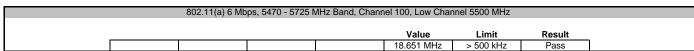


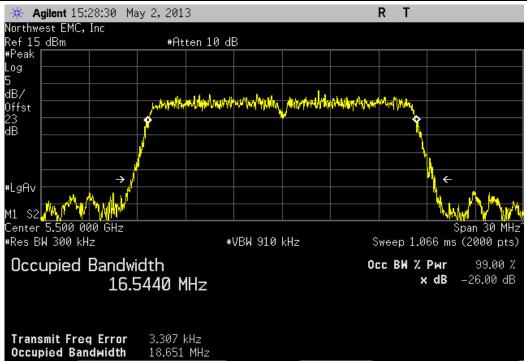




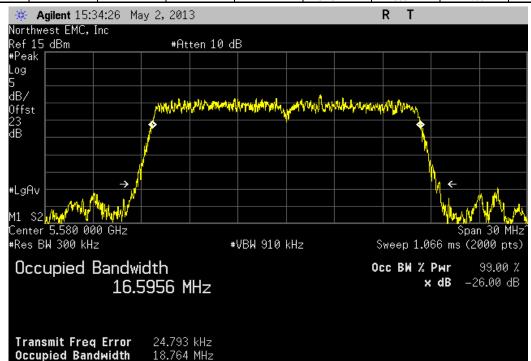
	802.11(a) 6 Mb	ps, 5250 - 5350 f	MHz Band, Chanr	nel 64, High Chan	nel 5320 MHz	
_				Value	Limit	Result
				18.822 MHz	> 500 kHz	Pass



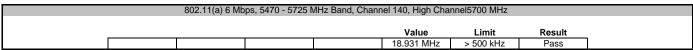


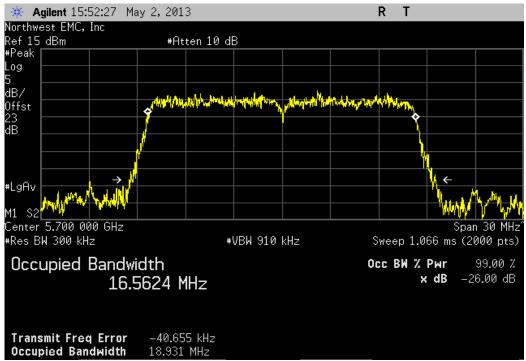


	802.11(a) 6 M	1bps, 5470 - 5725	MHz Band, Chan	nel 116, Mid Chani	nel 5580 MHz		
						- L	
				Value	Limit	Result	

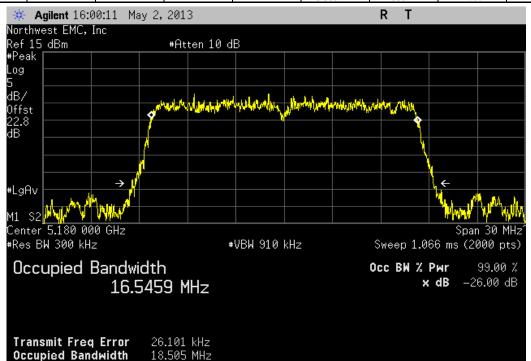




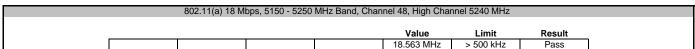


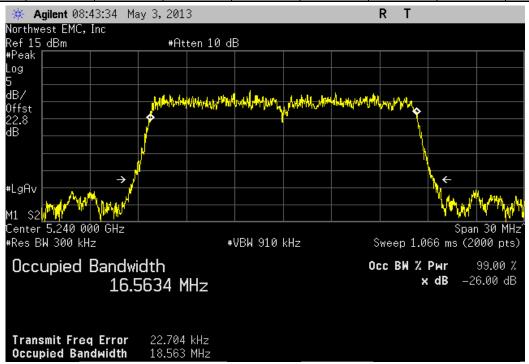


	802.11(a) 18 M	lbps, 5150 - 5250	MHz Band, Char	nnel 36, Low Char	nnel 5180 MHz		
				Value	Limit	Result	

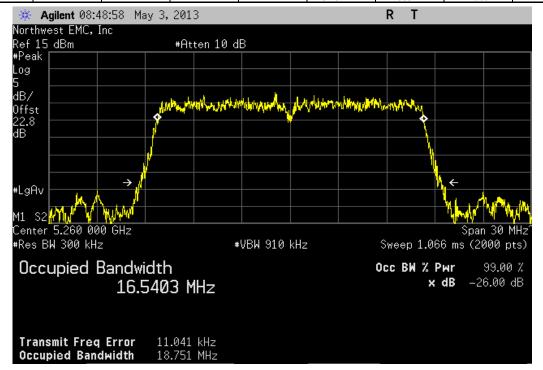


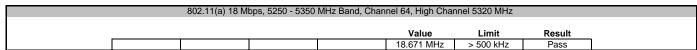


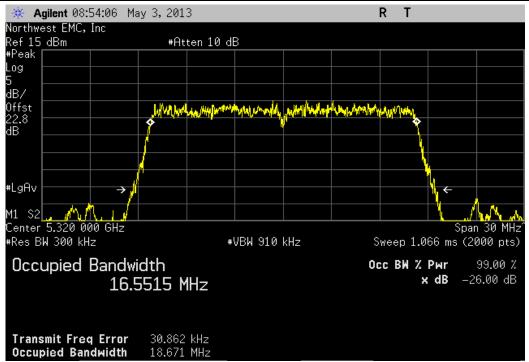


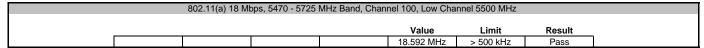


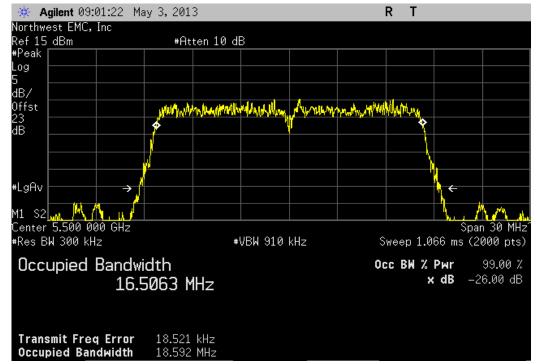
	802.11(a) 18 M	bps, 5250 - 5350	MHz Band, Char	nel 52, Low Char	nnel 5260 MHz		
_				Value	Limit	Result	_
				18.751 MHz	> 500 kHz	Pass	1

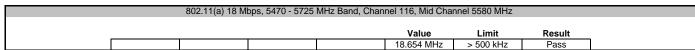


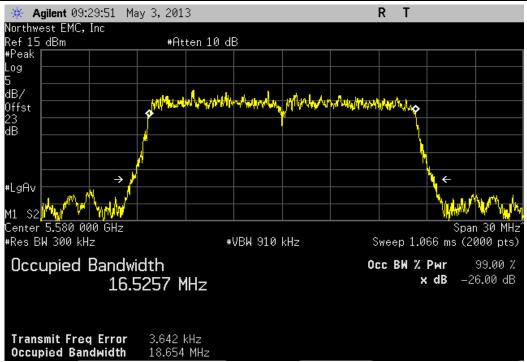




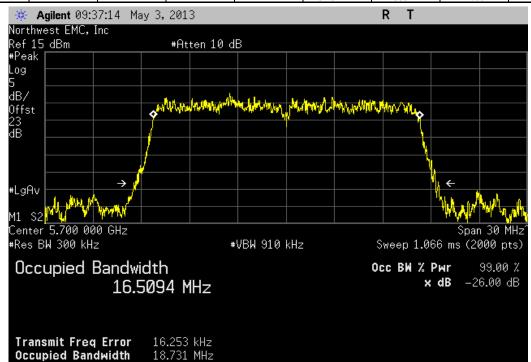








	802.11(a) 18 M	bps, 5470 - 5725	MHz Band, Char	nnel 140, High Cha	nnel 5700 MHz		
				Value	Limit	Result	_





Peak Excursion

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
Attenuator, 6dB	S.M. Electronics	18N-06	AWN	3/25/2013	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	NCR	0
Power Meter	Gigatronics	8651A	SPM	1/9/2012	24
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	24
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator, 6 dB, 'SMA'	N/A	93459 3330A-6	AUF	3/5/2013	12
40GHz DC Block	Miteq	DCB4000	AMD	6/25/2012	12
Spectrum Analyzer	Agilent	E4446A	AAQ	2/7/2012	24

TEST DESCRIPTION

FCC KDB 789033 D01 General UNII Test Procedures Section G was followed to show that the radio of the maximum peak-max-hold spectrum to the maximum of the average spectrum does not exceed 13 dBm.

The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input.

The spectrum analyzer settings were as follows:

Span set to encompass the entire emission bandwidth (B), centered on the transmit channel.

Using the marker delta function, the largest difference between the following two traces was measured:

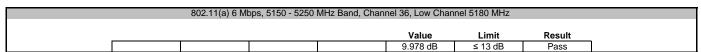
>1st Trace: RBW = 1 MHz, VBW >= 3 MHz with peak detector and trace max-hold..

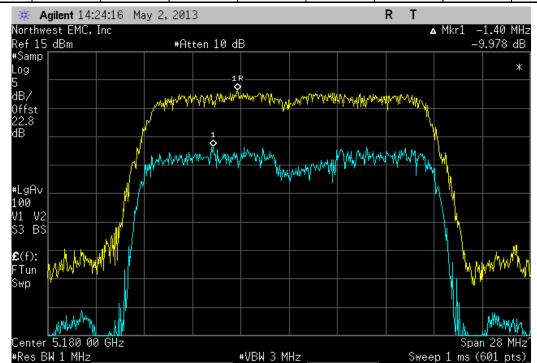
▶2nd Trace: The same procedure and settings as was used for peak power spectral density



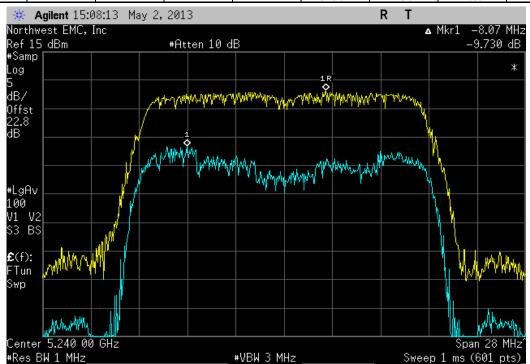
	Model 444-2225 (Athena UFL)		Work Order:		
Serial Number:	02EA4D000027		Date:	05/03/13	
Customer:	Summit Semiconductor		Temperature:		
Attendees:			Humidity:		
Project:			Barometric Pres.:		
	Brandon Hobbs	Power: 3.3V DC	Job Site:	EV06	
TEST SPECIFICATI	ONS	Test Method			
CC 15.407:2013		ANSI C63.10:2009			
COMMENTS					
III testing was con	npleted on the highest output power antenna port A2.				
	I TEST STANDARD				
lone					
Configuration #	5 Signature	J. J.			
			Value	Limit	Result
	5150 - 5250 MHz Band				
	Channel 36, Low Channel 5180 MHz		9.978 dB	≤ 13 dB	Pass
	Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz		9.978 dB 9.73 dB	≤ 13 dB ≤ 13 dB	Pass Pass
	Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz 5250 - 5350 MHz Band		9.73 dB	≤ 13 dB	Pass
	Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz 5250 - 5350 MHz Band Channel 52, Low Channel 5260 MHz		9.73 dB 10.042 dB	≤ 13 dB	Pass
,, ,	Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz 5250 - 5350 MHz Band Channel 52, Low Channel 5260 MHz Channel 64, High Channel 5320 MHz		9.73 dB	≤ 13 dB	Pass
	Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz 5250 - 5350 MHz Band Channel 52, Low Channel 5260 MHz Channel 64, High Channel 5320 MHz 5470 - 5725 MHz Band		9.73 dB 10.042 dB 8.536 dB	≤ 13 dB ≤ 13 dB ≤ 13 dB	Pass Pass Pass
	Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz 5250 - 5350 MHz Band Channel 52, Low Channel 5260 MHz Channel 64, High Channel 5320 MHz 5470 - 5725 MHz Band Channel 100, Low Channel 5500 MHz		9.73 dB 10.042 dB 8.536 dB 9.138 dB	≤ 13 dB ≤ 13 dB ≤ 13 dB ≤ 13 dB	Pass Pass Pass
	Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz 5250 - 5350 MHz Band Channel 52, Low Channel 5260 MHz Channel 64, High Channel 5320 MHz 5470 - 5725 MHz Band Channel 100, Low Channel 5500 MHz Channel 116, Mid Channel 5580 MHz		9.73 dB 10.042 dB 8.536 dB	≤ 13 dB ≤ 13 dB ≤ 13 dB	Pass Pass Pass
	Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz 5250 - 5350 MHz Band Channel 52, Low Channel 5260 MHz Channel 64, High Channel 5320 MHz 5470 - 5725 MHz Band Channel 100, Low Channel 5500 MHz		9.73 dB 10.042 dB 8.536 dB 9.138 dB 8.704 dB	≤ 13 dB ≤ 13 dB ≤ 13 dB ≤ 13 dB ≤ 13 dB	Pass Pass Pass Pass Pass
302.11(a) 18 Mbps	Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz 5250 - 5350 MHz Band Channel 52, Low Channel 5260 MHz Channel 64, High Channel 5320 MHz 5470 - 5725 MHz Band Channel 100, Low Channel 5500 MHz Channel 116, Mid Channel 5580 MHz		9.73 dB 10.042 dB 8.536 dB 9.138 dB 8.704 dB	≤ 13 dB ≤ 13 dB ≤ 13 dB ≤ 13 dB ≤ 13 dB	Pass Pass Pass Pass Pass
02.11(a) 18 Mbps	Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz 5250 - 5350 MHz Band Channel 52, Low Channel 5260 MHz Channel 64, High Channel 5320 MHz 5470 - 5725 MHz Band Channel 100, Low Channel 5500 MHz Channel 116, Mid Channel 5580 MHz Channel 140, High Channel5700 MHz		9.73 dB 10.042 dB 8.536 dB 9.138 dB 8.704 dB	≤ 13 dB ≤ 13 dB ≤ 13 dB ≤ 13 dB ≤ 13 dB	Pass Pass Pass Pass Pass
302.11(a) 18 Mbps	Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz 5250 - 5350 MHz Band Channel 52, Low Channel 5260 MHz Channel 64, High Channel 5320 MHz 5470 - 5725 MHz Band Channel 100, Low Channel 5500 MHz Channel 116, Mid Channel 5580 MHz Channel 140, High Channel 5700 MHz 5150 - 5250 MHz Band		9.73 dB 10.042 dB 8.536 dB 9.138 dB 8.704 dB 9.266 dB	≤ 13 dB ≤ 13 dB ≤ 13 dB ≤ 13 dB ≤ 13 dB ≤ 13 dB	Pass Pass Pass Pass Pass Pass
02.11(a) 18 Mbps	Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz 5250 - 5350 MHz Band Channel 52, Low Channel 5260 MHz Channel 52, Low Channel 5320 MHz 5470 - 5725 MHz Band Channel 100, Low Channel 5500 MHz Channel 116, Mid Channel 5580 MHz Channel 140, High Channel 5700 MHz Channel 140, High Channel 5700 MHz 5150 - 5250 MHz Band Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz 5250 - 5350 MHz Band		9.73 dB 10.042 dB 8.536 dB 9.138 dB 8.704 dB 9.266 dB	≤ 13 dB ≤ 13 dB ≤ 13 dB ≤ 13 dB ≤ 13 dB ≤ 13 dB	Pass Pass Pass Pass Pass Pass Pass
02.11(a) 18 Mbps	Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz 5250 - 5350 MHz Band Channel 52, Low Channel 5260 MHz Channel 64, High Channel 5260 MHz 5470 - 5725 MHz Band Channel 100, Low Channel 5500 MHz Channel 116, Mid Channel 5580 MHz Channel 116, High Channel 5500 MHz Channel 116, High Channel 5700 MHz 5150 - 5250 MHz Band Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz 5250 - 5350 MHz Band Channel 52, Low Channel 5260 MHz		9.73 dB 10.042 dB 8.536 dB 9.138 dB 8.704 dB 9.266 dB 10.315 dB 9.843 dB 10.34 dB	≤ 13 dB ≤ 13 dB ≤ 13 dB ≤ 13 dB ≤ 13 dB ≤ 13 dB	Pass Pass Pass Pass Pass Pass Pass
302.11(a) 18 Mbps	Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz 5250 - 5350 MHz Band Channel 52, Low Channel 5260 MHz Channel 64, High Channel 5320 MHz 5470 - 5725 MHz Band Channel 1100, Low Channel 5500 MHz Channel 116, Mid Channel 5580 MHz Channel 1140, High Channel 5580 MHz Channel 140, High Channel 5700 MHz 5150 - 5250 MHz Band Channel 48, High Channel 5240 MHz 5250 - 5350 MHz Band Channel 52, Low Channel 5260 MHz Channel 64, High Channel 5320 MHz Channel 64, High Channel 5320 MHz		9.73 dB 10.042 dB 8.536 dB 9.138 dB 8.704 dB 9.266 dB 10.315 dB 9.843 dB	≤ 13 dB ≤ 13 dB	Pass Pass Pass Pass Pass Pass Pass Pass
802.11(a) 18 Mbps	Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz 5250 - 5350 MHz Band Channel 52, Low Channel 5260 MHz Channel 52, Low Channel 5260 MHz 5470 - 5725 MHz Band Channel 100, Low Channel 5500 MHz Channel 110, Mid Channel 5580 MHz Channel 1140, High Channel 5580 MHz Channel 140, High Channel 5700 MHz 5150 - 5250 MHz Band Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz 5250 - 5350 MHz Band Channel 52, Low Channel 5260 MHz Channel 52, Low Channel 5260 MHz Channel 52, Low Channel 5320 MHz 5470 - 5725 MHz Band		9.73 dB 10.042 dB 8.536 dB 9.138 dB 8.704 dB 9.266 dB 10.315 dB 9.843 dB 10.34 dB 10.866 dB	≤ 13 dB ≤ 13 dB	Pass Pass Pass Pass Pass Pass Pass Pass
302.11(a) 18 Mbps	Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz 5250 - 5350 MHz Band Channel 52, Low Channel 5260 MHz Channel 64, High Channel 5320 MHz 5470 - 5725 MHz Band Channel 100, Low Channel 5500 MHz Channel 110, Low Channel 5500 MHz Channel 116, Mid Channel 5500 MHz Channel 116, High Channel 5700 MHz 5150 - 5250 MHz Band Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz 5250 - 5350 MHz Band Channel 64, High Channel 5260 MHz Channel 64, High Channel 5320 MHz 5470 - 5725 MHz Band Channel 52, Low Channel 5320 MHz Channel 100, Low Channel 5500 MHz		9.73 dB 10.042 dB 8.536 dB 9.138 dB 8.704 dB 9.266 dB 10.315 dB 9.843 dB 10.34 dB 10.866 dB	≤ 13 dB ≤ 13 dB	Pass Pass Pass Pass Pass Pass Pass Pass
802.11(a) 18 Mbps	Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz 5250 - 5350 MHz Band Channel 52, Low Channel 5260 MHz Channel 52, Low Channel 5260 MHz 5470 - 5725 MHz Band Channel 100, Low Channel 5500 MHz Channel 110, Mid Channel 5580 MHz Channel 1140, High Channel 5580 MHz Channel 140, High Channel 5700 MHz 5150 - 5250 MHz Band Channel 36, Low Channel 5180 MHz Channel 48, High Channel 5240 MHz 5250 - 5350 MHz Band Channel 52, Low Channel 5260 MHz Channel 52, Low Channel 5260 MHz Channel 52, Low Channel 5320 MHz 5470 - 5725 MHz Band		9.73 dB 10.042 dB 8.536 dB 9.138 dB 8.704 dB 9.266 dB 10.315 dB 9.843 dB 10.34 dB 10.866 dB	≤ 13 dB ≤ 13 dB	Pass Pass Pass Pass Pass Pass Pass Pass



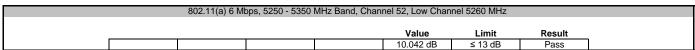


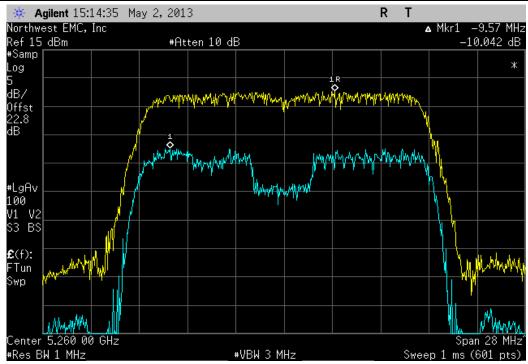


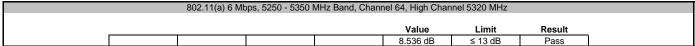
	802.11(a) 6 Mb	ps, 5150 - 5250 I	MHz Band, Chann	el 48, High Chan	nel 5240 MHz	
				Value	Limit	Result
				9.73 dB	≤ 13 dB	Pass

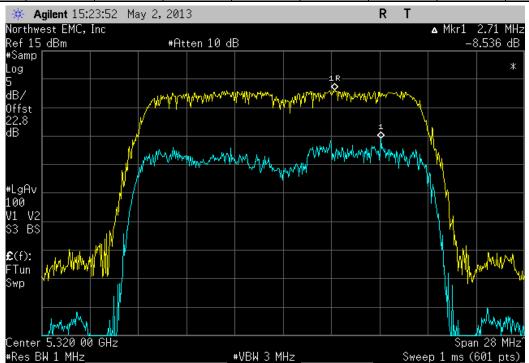




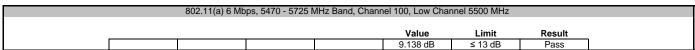


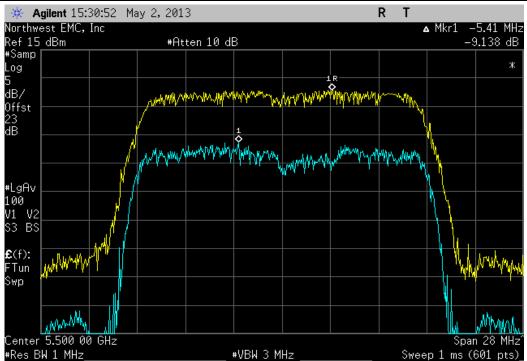


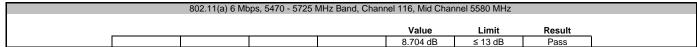


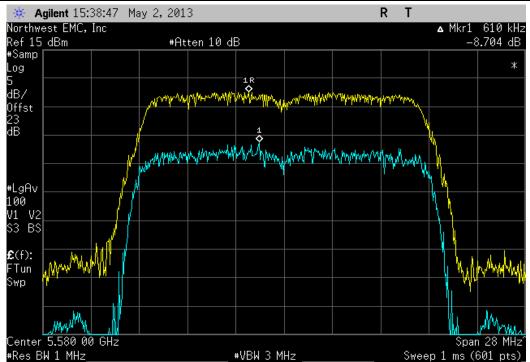


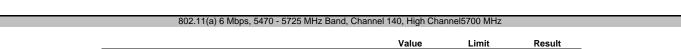


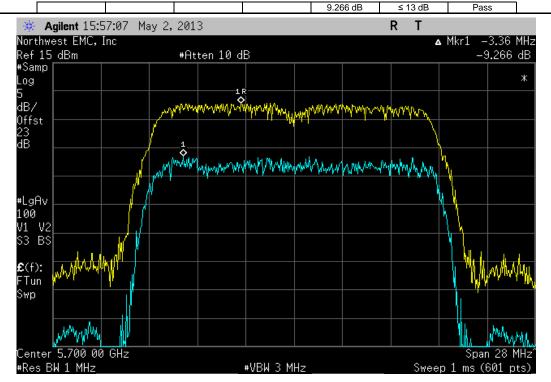


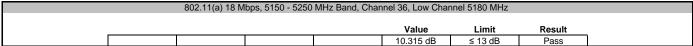


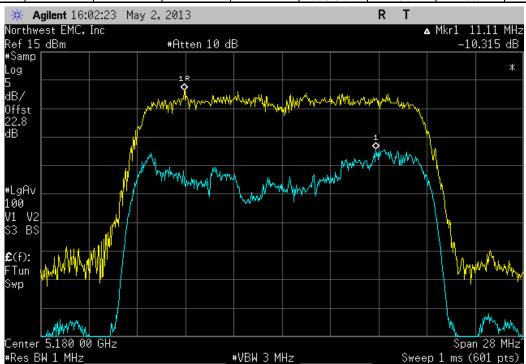




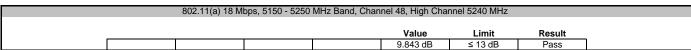


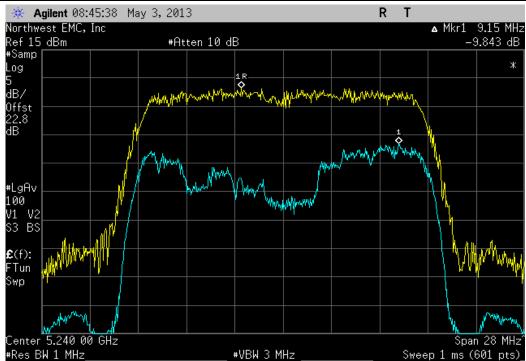


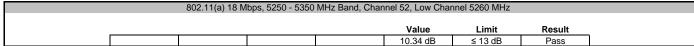


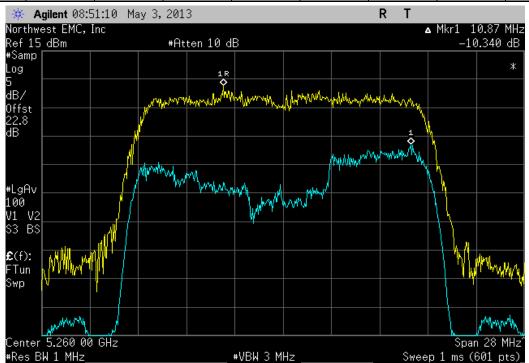




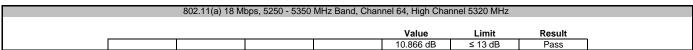


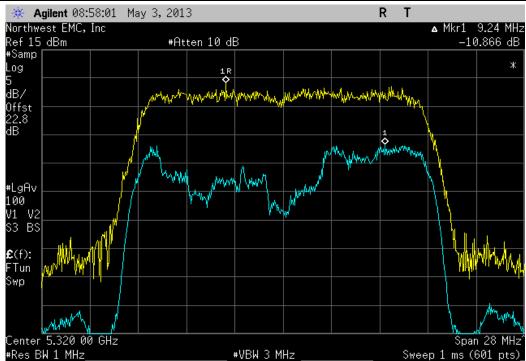


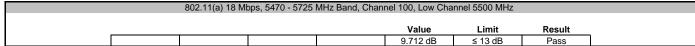


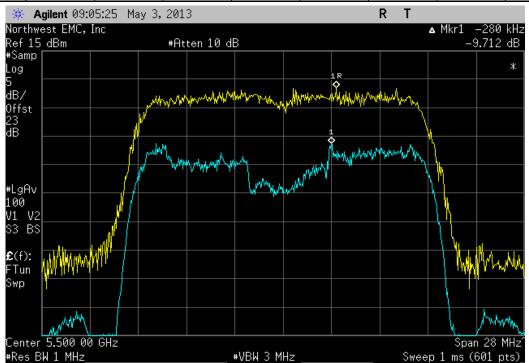




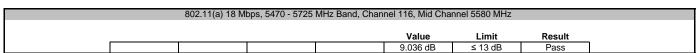


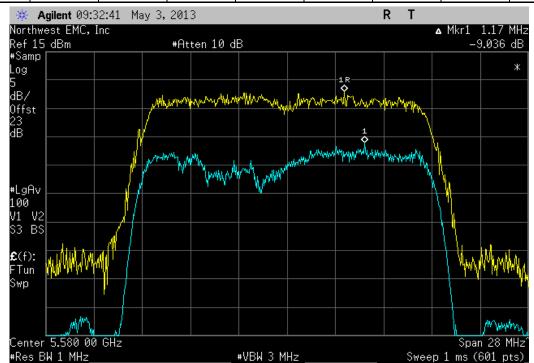


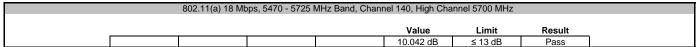


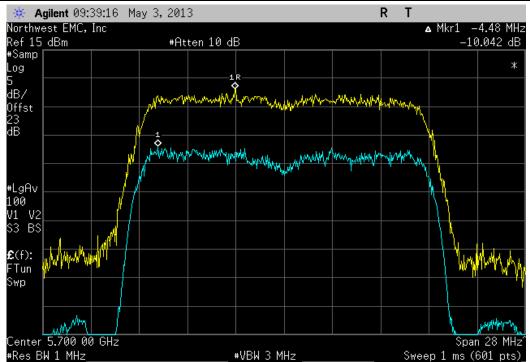


Peak Excursion











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
Temp./Humidity Chamber	Cincinnati Sub Zero (CSZ)	ZH-32-2-2-H/AC	TBA	NCR	0
DC Power Supply	MPJA	9950 PS	TQA	NCR	0
Multimeter	Tektronix	DMM912	MMH	2/5/2013	24
Humidity Temperature Meter	Omegaette	HH311	DTY	3/29/2011	36
Attenuator, 6dB	S.M. Electronics	18N-06	AWN	3/25/2013	12
MXG Vector Signal Generator	Agilent	N5182A	TIF	NCR	0
Power Meter	Gigatronics	8651A	SPM	1/9/2012	24
Power Sensor	Gigatronics	80701A	SPL	7/8/2011	24
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator, 6 dB, 'SMA'	N/A	93459 3330A-6	AUF	3/5/2013	12
40GHz DC Block	Miteq	DCB4000	AMD	6/25/2012	12
Spectrum Analyzer	Agilent	E4446A	AAQ	2/7/2012	24

TEST DESCRIPTION

Variation of Supply Voltage

The primary supply voltage was varied from 85 % to 115% of the nominal voltage

Variation of Ambient Temperature

Using a temperature chamber, the transmit frequency was recorded at the extremes of the specified temperature range (-30 $^{\circ}$ to +50 $^{\circ}$ C) and at 10 $^{\circ}$ C intervals.

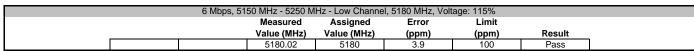
A direct connect measurement was made between the EUT's antenna cable and a spectrum analyzer. The spectrum analyzer is equipped with a precision frequency reference that exceeds the stability requirement of the EUT. Measurements were made at the mid channel of each band to determine frequency stability. If the frequency variation is less than 100 ppm, the EUT will meet the requirement of 15.407(g), that the emissions are maintained within the band of operation.

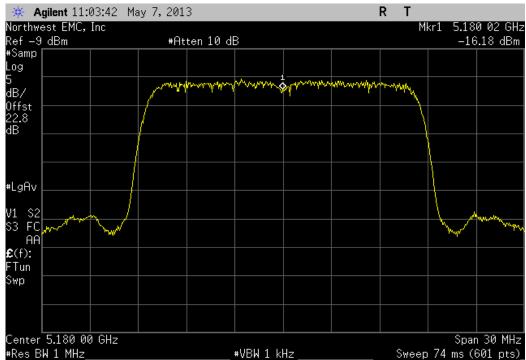


EU* Serial Numbe	T: Model 444-2225 (Athena er: 02EA4D000027	UFL)				Work Order:	FOCU0140 05/07/13	·
Custome						Temperature:		
Attendee	s: None			-		Humidity:	37%	
	y: Brandon Hobbs		Power: 3.3 VDC			Barometric Pres.: Job Site:		
TEST SPECIFICA			Test Method					
FCC 15.407:2013	· ·		ANSI C63.10:2009					
COMMENTS								
All testing was co	ompleted on the highest ou	tput power antenna port A2.						
	OM TEST STANDARD							
None								
Configuration #	4	Ciamatura	J. J.					
		Signature	, , ,	Measured	Assigned	Error	Limit	
				Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
6 Mbps	5150 MHz - 5250 MHz - Lo	ow Channel, 5180 MHz						
	Voltage: 115	5%		5180.02	5180	3.9	100	Pass
	Voltage: 100 Voltage: 85%			5180.02 5180	5180 5180	3.9 0	100 100	Pass Pass
	Temperature	e: +50°		5180.02	5180	3.9	100	Pass
	Temperature			5180.02	5180	3.9	100	Pass
	Temperature Temperature			5180.02 5180.02	5180 5180	3.9 3.9	100 100	Pass Pass
	Temperature			5180.02	5180	3.9	100	Pass
	Temperature	e: 0°		5180.08	5180	15.4	100	Pass
	Temperature			5180.05	5180	9.6	100	Pass
	Temperature Temperature			5180.05 5180	5180 5180	9.6 0	100 100	Pass Pass
	5150 MHz - 5250 MHz - H	ligh Channel, 5240 MHz						
	Voltage: 115			5239.98	5240	3.8	100	Pass
	Voltage: 100 Voltage: 85%			5240.02 5240.02	5240 5240	3.8 3.8	100 100	Pass Pass
	Temperature			5240.02	5240	3.8	100	Pass
	Temperature			5240.02	5240	3.8	100	Pass
	Temperature			5240.02	5240	3.8	100	Pass
	Temperature			5240.02	5240	3.8	100	Pass
	Temperature Temperature			5240.05 5240.02	5240 5240	9.5 3.8	100 100	Pass Pass
	Temperature			5240.02	5240	3.8	100	Pass
	Temperature			5240.02	5240	3.8	100	Pass
	Temperature			5239.98	5240	3.8	100	Pass
	5150 MHz - 5250 MHz - Lo Voltage: 115			5260.02	5260	3.8	100	Pass
	Voltage: 100			5260.02	5260	3.8	100	Pass
	Voltage: 85%			5260.02	5260	3.8	100	Pass
	Temperature Temperature			5260.02 5260.02	5260 5260	3.8 3.8	100 100	Pass Pass
	Temperature			5260.02	5260	3.8	100	Pass
	Temperature			5260.02	5260	3.8	100	Pass
	Temperature			5260.05	5260	9.5	100	Pass
	Temperature			5260.05	5260	9.5	100	Pass
	Temperature Temperature			5260.02 5260.02	5260 5260	3.8 3.8	100 100	Pass Pass
	Temperature			5260.02	5260	3.8	100	Pass
	5250 MHz - 5350 MHz - H			5000.00	5000		400	
	Voltage: 115 Voltage: 100			5320.02 5320.05	5320 5320	3.8 9.4	100 100	Pass Pass
	Voltage: 85%			5320.02	5320	3.8	100	Pass
	Temperature			5320.02	5320	3.8	100	Pass
	Temperature			5320.02	5320	3.8	100	Pass
	Temperature Temperature			5320 5320.02	5320 5320	0 3.8	100 100	Pass Pass
	Temperature			5320.02	5320	3.8	100	Pass
	Temperature	e: 0°		5320.08	5320	15	100	Pass
	Temperature			5320.02	5320	3.8	100	Pass
	Temperature Temperature			5320.02 5320.02	5320 5320	3.8 3.8	100 100	Pass Pass
	5470 MHz - 5725 MHz - Lo	ow Channel, 5500 MHz						
	Voltage: 115	5%		5500.02	5500	3.6	100	Pass
	Voltage: 100			5500.02	5500 5500	3.6	100	Pass
	Voltage: 85% Temperature			5500.05 5500.02	5500 5500	9.1 3.6	100 100	Pass Pass
	Temperature			5500.02	5500	3.6	100	Pass
	Temperature	e: +30°		5500.05	5500	9.1	100	Pass
	Temperature			5500.02	5500	3.6	100	Pass
	Temperature Temperature			5500.02 5500.05	5500 5500	3.6 9.1	100 100	Pass Pass
	Temperature			5500	5500	0	100	Pass
	Temperature			5500	5500	0	100	Pass
	Temperature 5470 MHz - 5725 MHz - H			5500	5500	0	100	Pass
	5470 MHz - 5725 MHz - H Voltage: 115			5700	5700	0	100	Pass
	Voltage: 110			5700.02	5700	3.5	100	Pass
	Voltage: 85%	6		5700	5700	0	100	Pass
	Temperature			5700.02	5700	3.5	100	Pass
	Temperature Temperature			5700.02 5700.05	5700 5700	3.5 8.8	100 100	Pass
	Temperature Temperature			5700.05 5700.02	5700 5700	8.8 3.5	100 100	Pass Pass
	Temperature			5700.02	5700	3.5	100	Pass
	Temperature	e: 0°		5700.02	5700	3.5	100	Pass
	Temperature			5700.05	5700 5700	8.8	100	Pass
	Temperature Temperature			5700.02 5700	5700 5700	3.5 0	100 100	Pass Pass
	remperature	•		57.00	3100	•	100	1 433

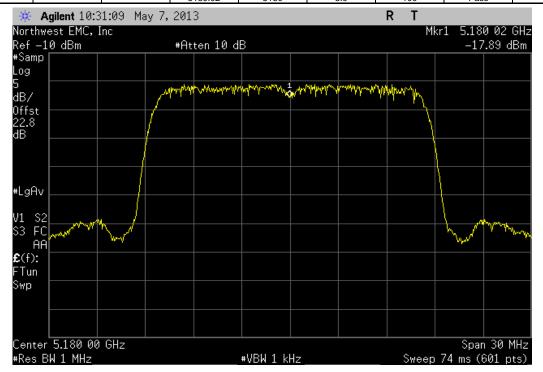
18	Mbps	

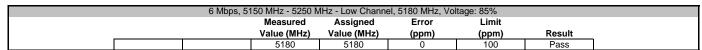
5150 MHz - 5250 MHz - Low Channel, 5180 MHz	5180.05	5180	9.6	100	Pass
Voltage: 115% Voltage: 100%	5180.05	5180	3.9	100	Pass
Voltage: 85%	5180.02	5180	3.9	100	Pass
Temperature: +50°	5180.02	5180	3.9	100	Pass
Temperature: +40°	5180	5180	0	100	Pass
Temperature: +30°	5180.02	5180	3.9	100	Pass
Temperature: +20°	5180.05	5180	9.6	100	Pass
Temperature: +10°	5180.05	5180	9.6	100	Pass
Temperature: 0°	5180.05	5180	9.6	100	Pass
Temperature: -10° Temperature: -20°	5180.05 5180.02	5180 5180	9.6 3.9	100 100	Pass Pass
Temperature: -30°	5179.98	5180	3.9	100	Pass
5150 MHz - 5250 MHz - High Channel, 5240 MHz	017 0.00	0100	0.0	100	1 033
Voltage: 115%	5240.02	5240	3.8	100	Pass
Voltage: 100%	5240.02	5240	3.8	100	Pass
Voltage: 85%	5240	5240	0	100	Pass
Temperature: +50°	5240.02	5240	3.8	100	Pass
Temperature: +40°	5240	5240	0	100	Pass
Temperature: +30° Temperature: +20°	5240 5240.02	5240 5240	0 3.8	100 100	Pass Pass
Temperature: +10°	5240.02	5240	9.5	100	Pass
Temperature: 0°	5240.05	5240	9.5	100	Pass
Temperature: -10°	5240.08	5240	15.3	100	Pass
Temperature: -20°	5240.05	5240	9.5	100	Pass
Temperature: -30°	5239.98	5240	3.8	100	Pass
5150 MHz - 5250 MHz - Low Channel, 5260 MHz					
Voltage: 115%	5260.02	5260	3.8	100	Pass
Voltage: 100% Voltage: 85%	5260.02 5260.05	5260 5260	3.8 9.5	100 100	Pass Pass
Temperature: +50°	5260.05	5260	3.8	100	Pass
Temperature: +50°	5260.02	5260	3.8	100	Pass
Temperature: +30°	5260.02	5260	3.8	100	Pass
Temperature: +20°	5260.05	5260	9.5	100	Pass
Temperature: +10°	5260.02	5260	3.8	100	Pass
Temperature: 0°	5260.12	5260	22.8	100	Pass
Temperature: -10°	5260.02	5260	3.8	100	Pass
Temperature: -20°	5260.05	5260	9.5	100	Pass
Temperature: -30°	5259.98	5260	3.8	100	Pass
5250 MHz - 5350 MHz - High Channel, 5320 MHz Voltage: 115%	5320	5320	0	100	Pass
Voltage: 100%	5320.05	5320	9.4	100	Pass
Voltage: 85%	5320.08	5320	15	100	Pass
Temperature: +50°	5320.05	5320	9.4	100	Pass
Temperature: +40°	5320.05	5320	9.4	100	Pass
Temperature: +30°	5320.02	5320	3.8	100	Pass
Temperature: +20°	5320.02	5320	3.8	100	Pass
Temperature: +10°	5320.02	5320	3.8	100	Pass
Temperature: 0°	5320.05	5320	9.4	100	Pass
Temperature: -10°	5320.02 5320	5320 5320	3.8 0	100 100	Pass
Temperature: -20° Temperature: -30°	5320	5320	0	100	Pass Pass
5470 MHz - 5725 MHz - Low Channel, 5500 MHz	5520	5520	J	100	1 433
Voltage: 115%	5500.05	5500	9.1	100	Pass
Voltage: 100%	5500.05	5500	9.1	100	Pass
Voltage: 85%	5500.02	5500	3.6	100	Pass
Temperature: +50°	5500.02	5500	3.6	100	Pass
Temperature: +40°	5500	5500	0	100	Pass
Temperature: +30°	5500 5500.02	5500	0	100	Pass
Temperature: +20° Temperature: +10°	5500.02 5500.05	5500 5500	3.6 9.1	100 100	Pass Pass
Temperature: 0°	5500.05	5500	9.1	100	Pass
Temperature: -10°	5500.08	5500	14.6	100	Pass
Temperature: -20°	5500	5500	0	100	Pass
Temperature: -30°	5499.92	5500	14.6	100	Pass
5470 MHz - 5725 MHz - High Channel, 5700 MHz					
Voltage: 115%	5700	5700	0	100	Pass
Voltage: 100%	5700.02	5700	3.5	100	Pass
Voltage: 85%	5700.18	5700 5700	31.6	100	Pass
Temperature: +50° Temperature: +40°	5700.02 5700.02	5700 5700	3.5 3.5	100 100	Pass Pass
Temperature: +40° Temperature: +30°	5700.02 5700.02	5700 5700	3.5	100	Pass
Temperature: +20°	5700.05	5700	8.8	100	Pass
Temperature: +10°	5700.05	5700	8.8	100	Pass
Temperature: 0°	5700.02	5700	3.5	100	Pass
Temperature: -10°	5700.05	5700	8.8	100	Pass
Temperature: -20°	5700.02	5700	3.5	100	Pass
Temperature: -30°	5699.98	5700	3.5	100	Pass

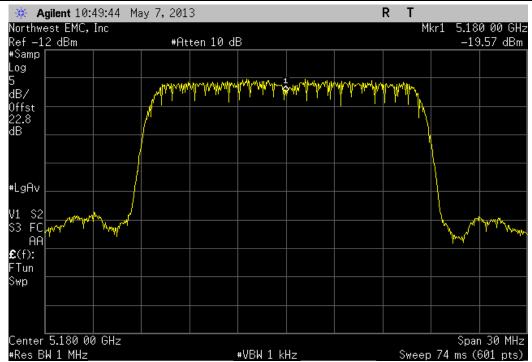




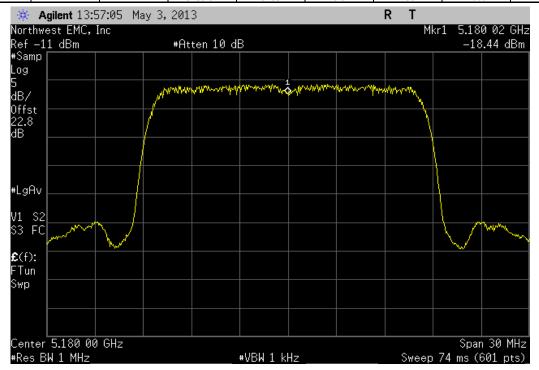
	6 Mbps, 5150 MHz - 5250 MHz - Low Channel, 5180 MHz, Voltage: 100%								
			Measured	Assigned	Error	Limit			
_			Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result		
1			5180.02	5180	3.9	100	Pass		

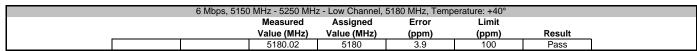


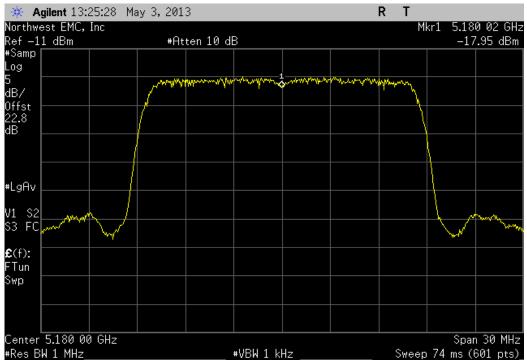




6 Mbps, 5150 MHz - 5250 MHz - Low Channel, 5180 MHz, Temperature: +50°								
		Measured	Assigned	Error	Limit			
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result		
		5180.02	5180	3.9	100	Pass		

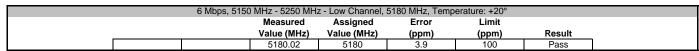


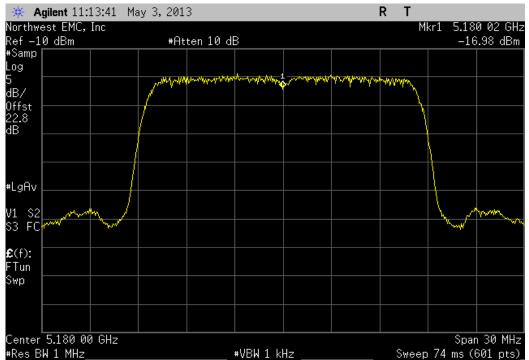




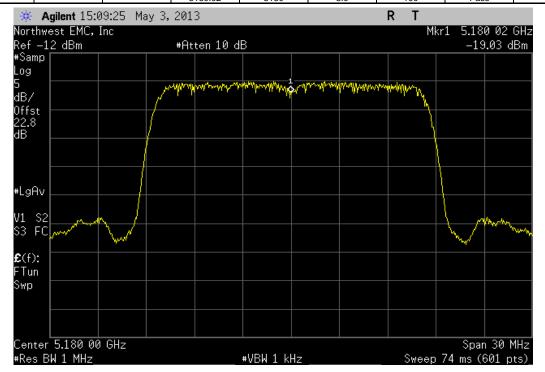
	6 Mbps, 5150	MHz - 5250 MH	z - Low Channel,	5180 MHz, Temp	erature: +30°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
1		5180.02	5180	3.9	100	Pass

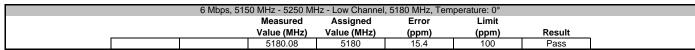






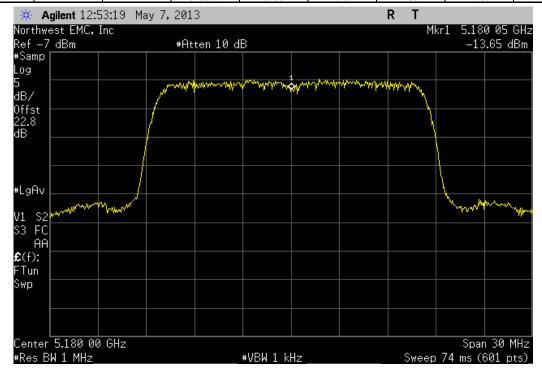
	6 Mbps, 5150 MHz - 5250 MHz - Low Channel, 5180 MHz, Temperature: +10°					
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5180.02	5180	3.9	100	Pass

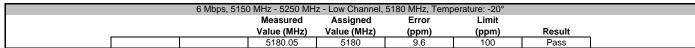


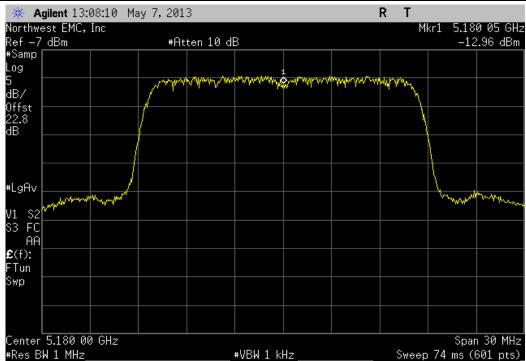




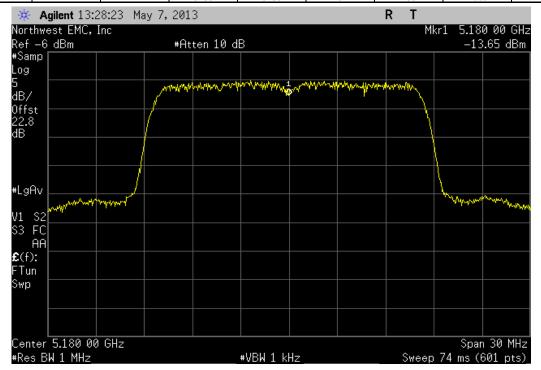
	6 Mbps, 5150 MHz - 5250 MHz - Low Channel, 5180 MHz, Temperature: -10°					
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5180.05	5180	9.6	100	Pass

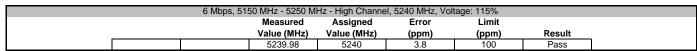


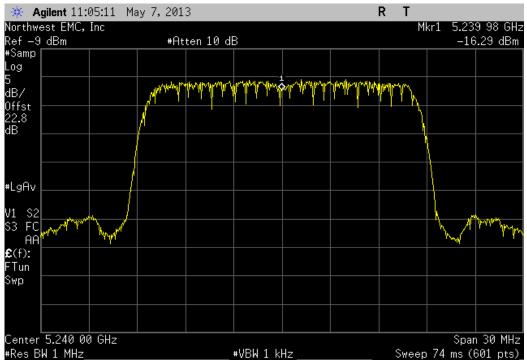




	6 Mbps, 5150) MHz - 5250 MH	z - Low Channel,	5180 MHz, Temp	erature: -30°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5180	5180	0	100	Pass

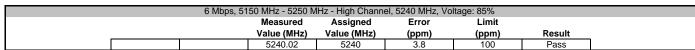


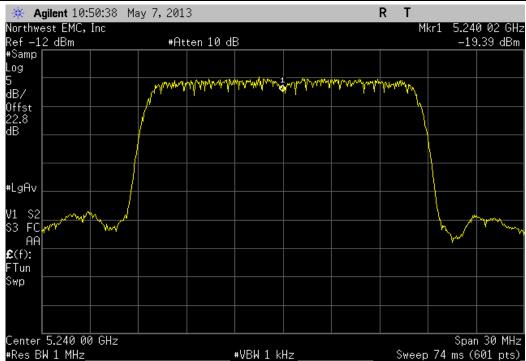




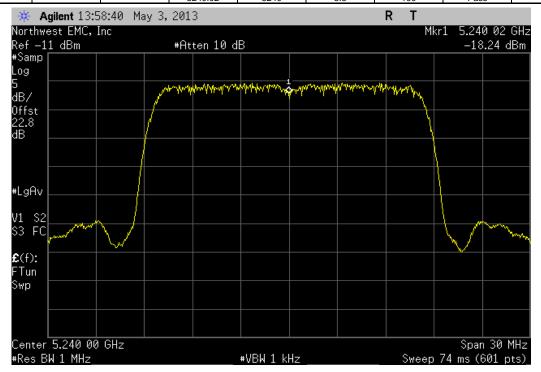
	6 Mbps, 515	50 MHz - 5250 M	Hz - High Channe	l, 5240 MHz, Vol	tage: 100%	
		Measured	Assigned	Error	Limit	
_		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
ı		5240.02	5240	3.8	100	Pass



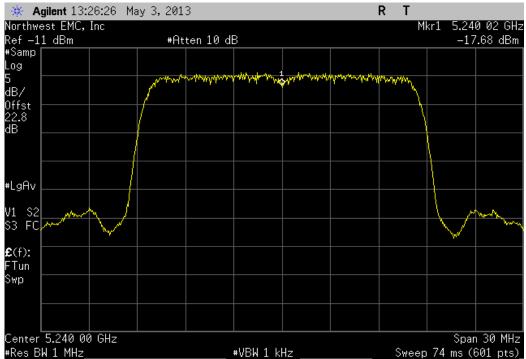




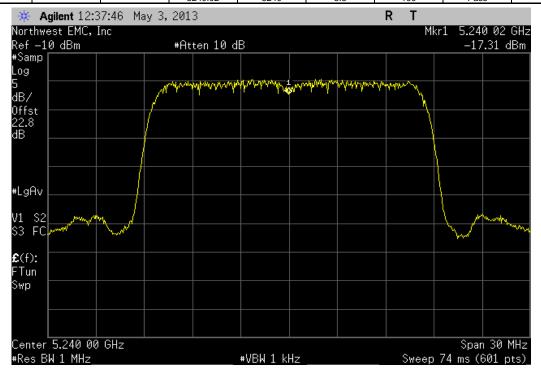
	6 Mbps, 5150	MHz - 5250 MHz	z - High Channel,	5240 MHz, Temp	erature: +50°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5240.02	5240	3.8	100	Pass



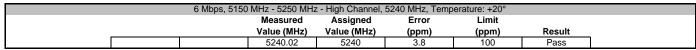


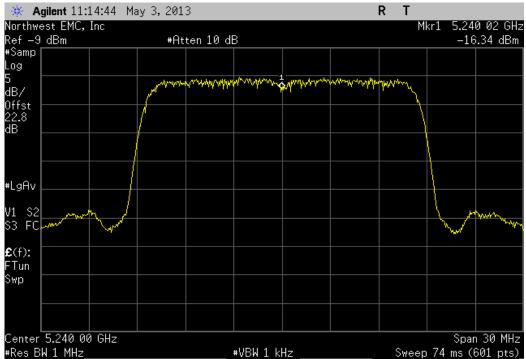


	6 Mbps, 5150	MHz - 5250 MHz	z - High Channel,	5240 MHz, Temp	erature: +30°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5240.02	5240	3.8	100	Pass

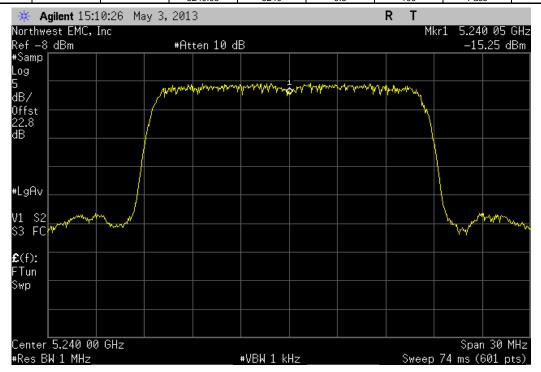


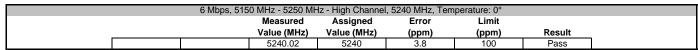


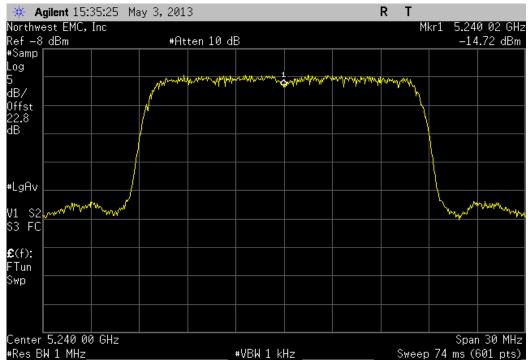




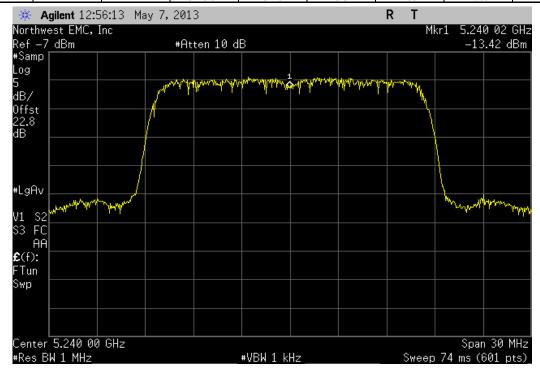
	6 Mbps, 5150	MHz - 5250 MHz	z - High Channel,	5240 MHz, Temp	erature: +10°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5240.05	5240	9.5	100	Pass

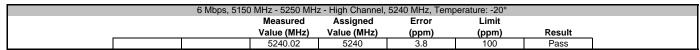


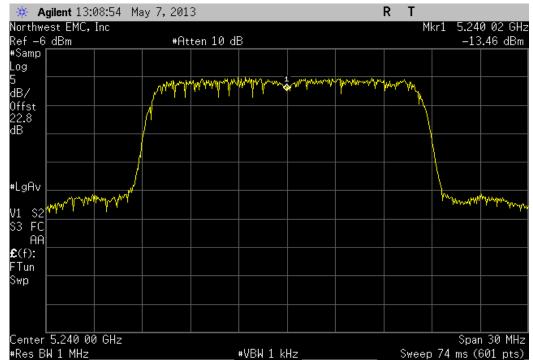




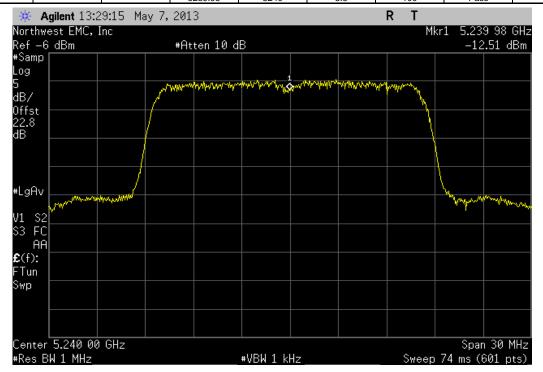
	6 Mbps, 5150	MHz - 5250 MHz	z - High Channel,	5240 MHz, Temp	erature: -10°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5240.02	5240	3.8	100	Pass

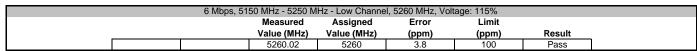


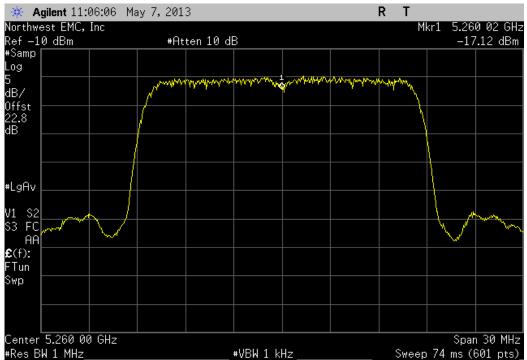




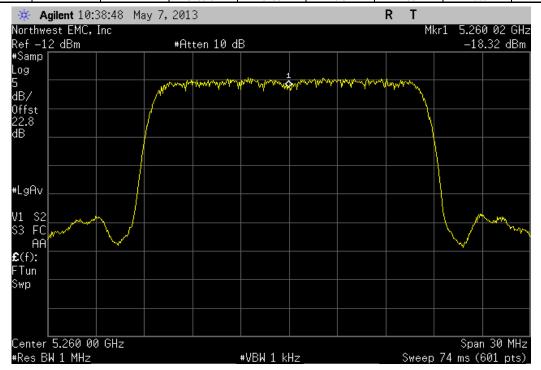
	6 Mbps, 5150	MHz - 5250 MH	z - High Channel,	5240 MHz, Temp	erature: -30°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5239.98	5240	3.8	100	Pass

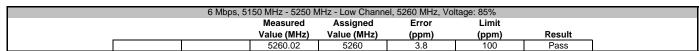


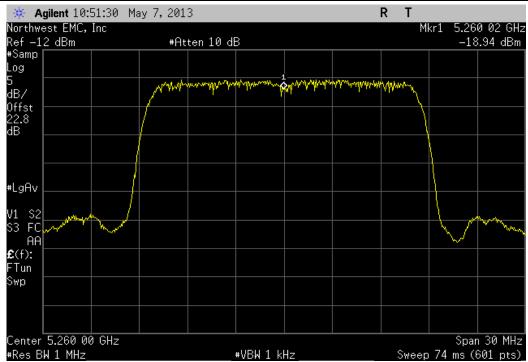




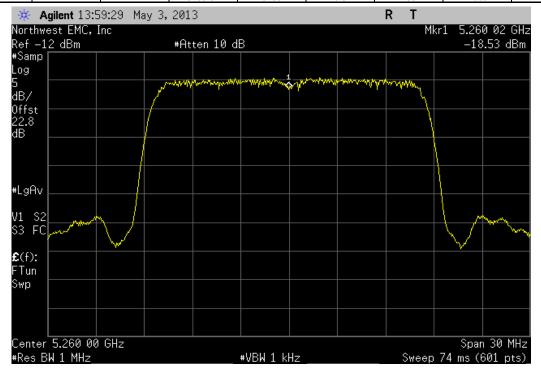
	6 Mbps, 51	50 MHz - 5250 M	Hz - Low Channe	l, 5260 MHz, Vol	tage: 100%	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5260.02	5260	3.8	100	Pass

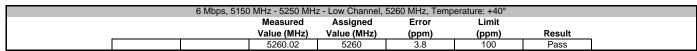


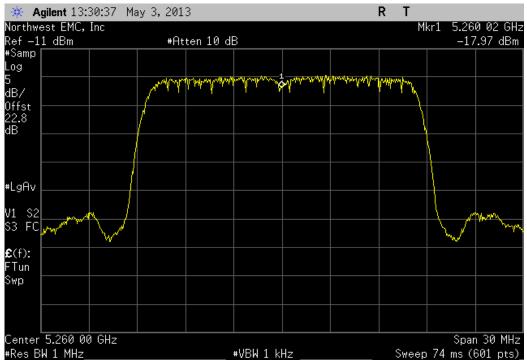




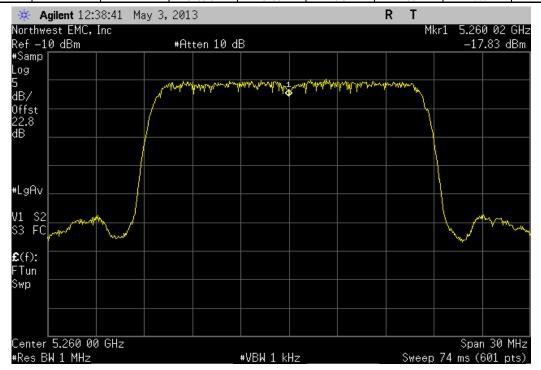
	6 Mbps, 5150	MHz - 5250 MH	z - Low Channel,	5260 MHz, Temp	erature: +50°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
1		5260.02	5260	3.8	100	Pass

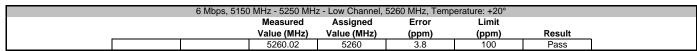






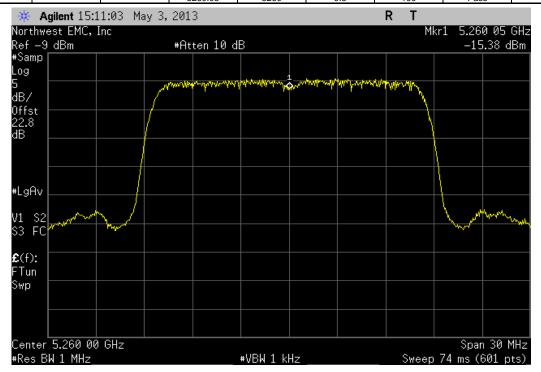
	6 Mbps, 5150	MHz - 5250 MH:	z - Low Channel,	5260 MHz, Temp	erature: +30°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
l		5260.02	5260	3.8	100	Pass



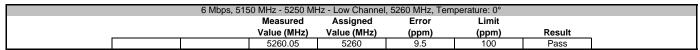


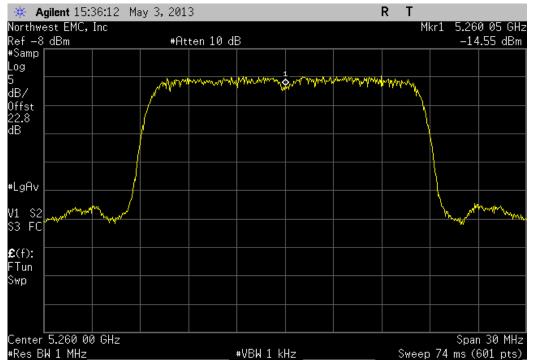


	6 Mbps, 5150	MHz - 5250 MH	z - Low Channel,	5260 MHz, Temp	erature: +10°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5260.05	5260	9.5	100	Pass

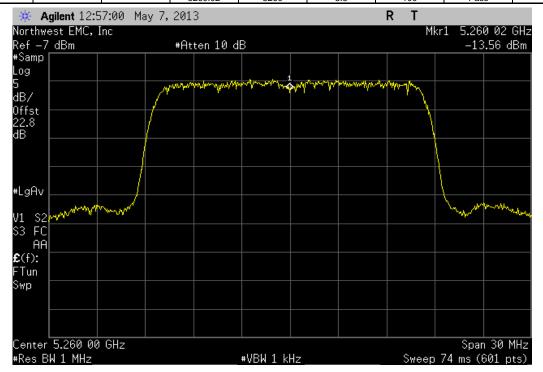




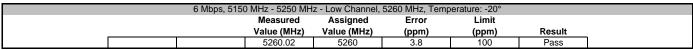


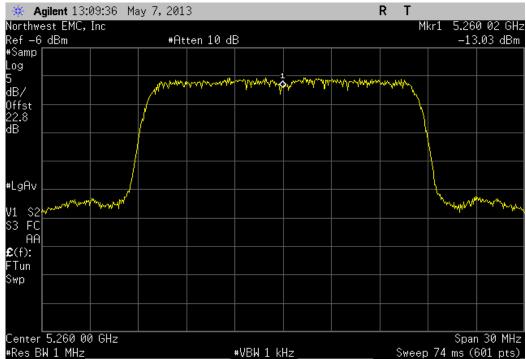


	6 Mbps, 5150	MHz - 5250 MH	z - Low Channel,	5260 MHz, Temp	erature: -10°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
İ		5260.02	5260	3.8	100	Pass

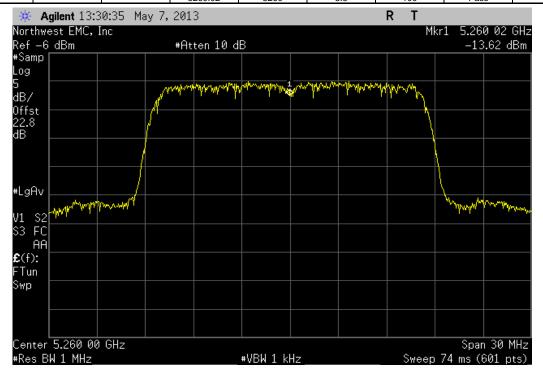


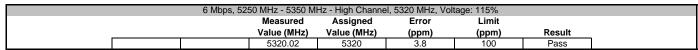


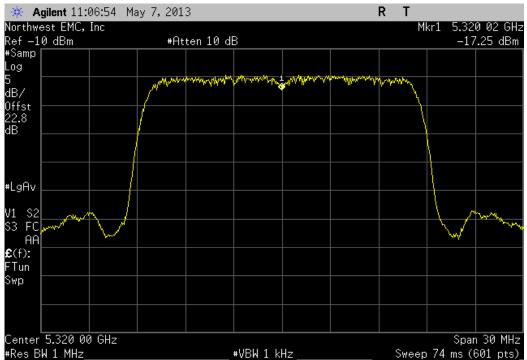




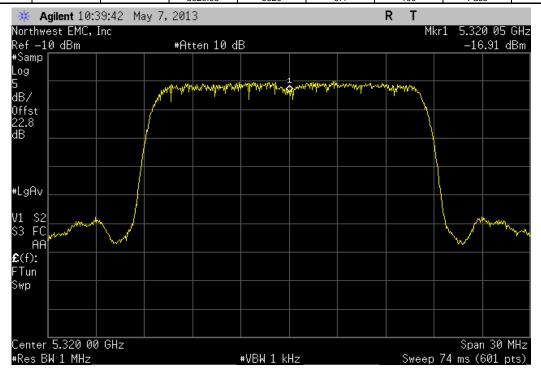
6 Mbps, 515	60 MHz - 5250 MH	z - Low Channel,	5260 MHz, Temp	perature: -30°	
	Measured	Assigned	Error	Limit	
	Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
	5260.02	5260	3.8	100	Pass

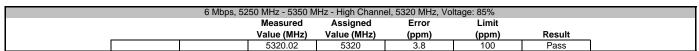


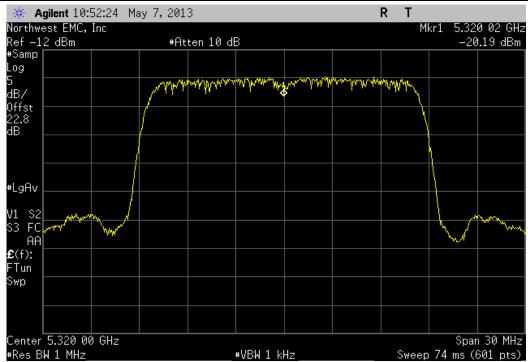




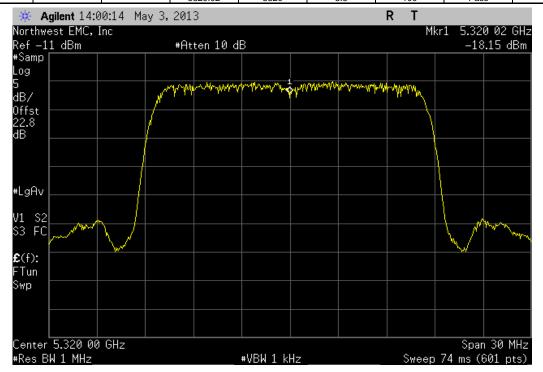
	6 Mbps, 525	50 MHz - 5350 M	Hz - High Channe	l, 5320 MHz, Vol	tage: 100%	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5320.05	5320	9.4	100	Pass

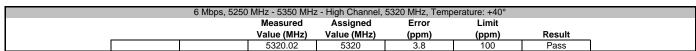


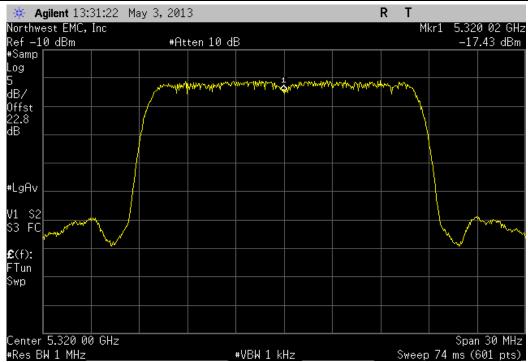




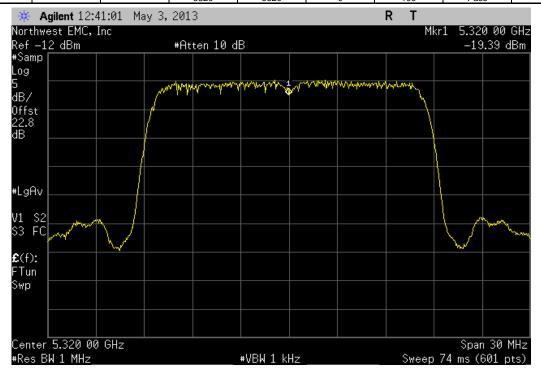
6 Mbps, 5250	MHz - 5350 MHz	z - High Channel,	5320 MHz, Temp	erature: +50°	
	Measured	Assigned	Error	Limit	
	Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
	5320.02	5320	3.8	100	Pass

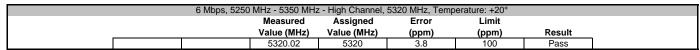






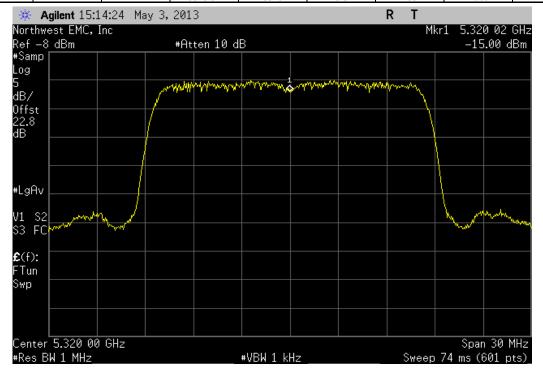
	6 Mbps, 5250	MHz - 5350 MHz	z - High Channel,	5320 MHz, Temp	erature: +30°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5320	5320	0	100	Pass

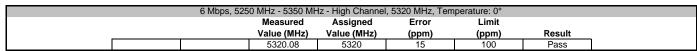


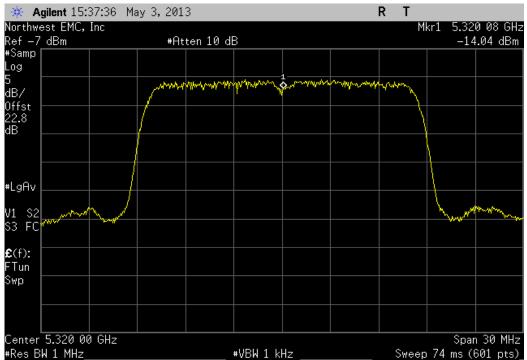




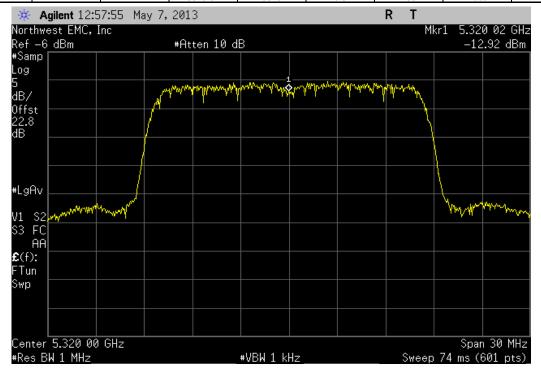
	6 Mbps, 5250	MHz - 5350 MHz	z - High Channel,	5320 MHz, Temp	erature: +10°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5320.02	5320	3.8	100	Pass

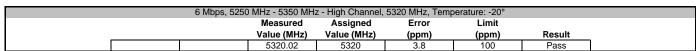


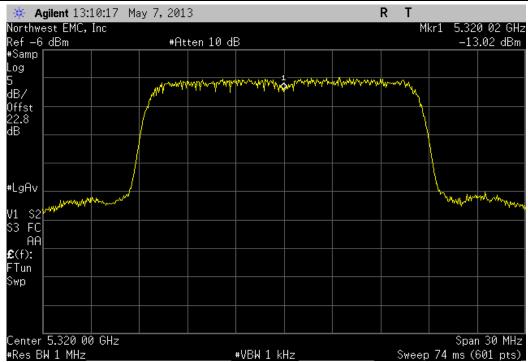




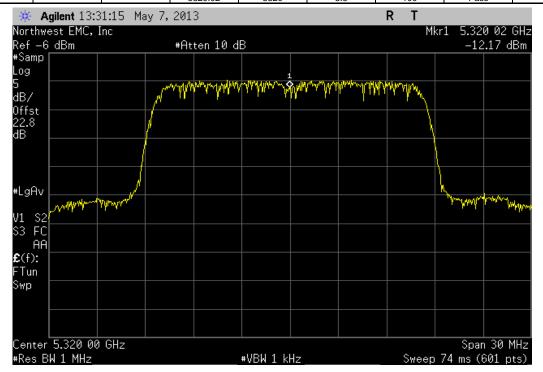
	6 Mbps, 5250	MHz - 5350 MHz	z - High Channel,	5320 MHz, Temp	erature: -10°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5320.02	5320	3.8	100	Pass

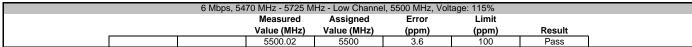


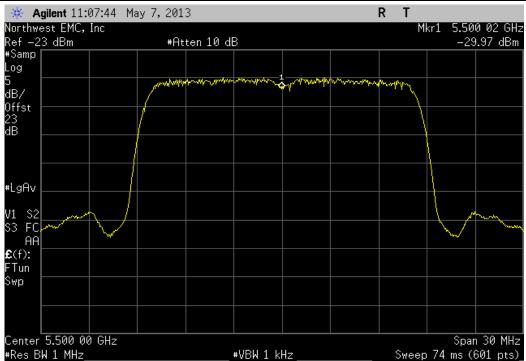




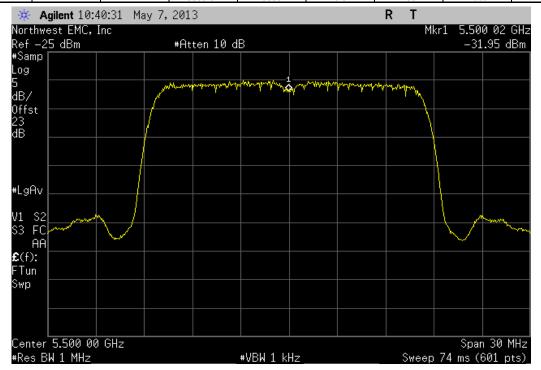
6 Mbps, 5250 MHz - 5350 MH	z - High Channel,	5320 MHz, Tem	perature: -30°	
Measured	Assigned	Error	Limit	
 Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
5320.02	5320	3.8	100	Pass

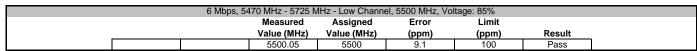


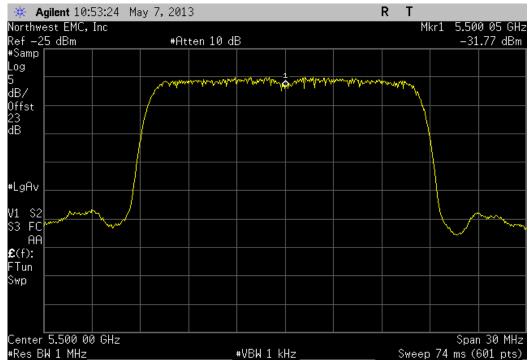




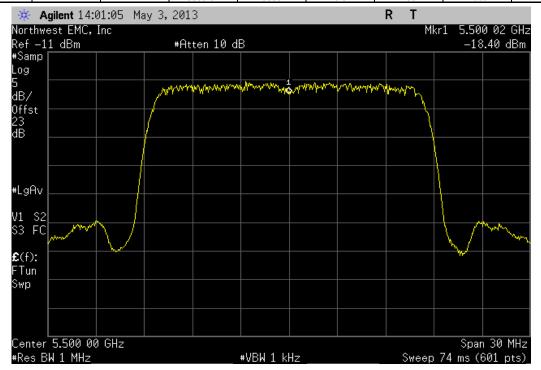
	6 Mbps, 54	70 MHz - 5725 M	Hz - Low Channe	l, 5500 MHz, Vol	tage: 100%	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5500.02	5500	3.6	100	Pass

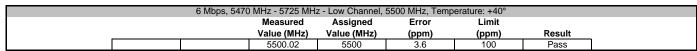


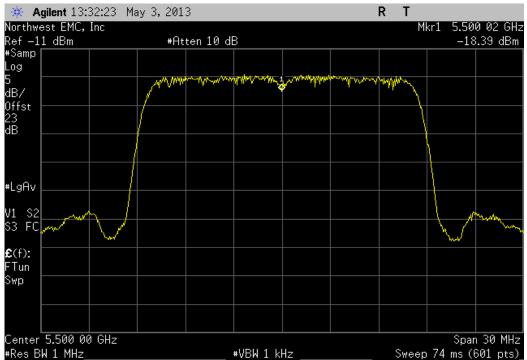




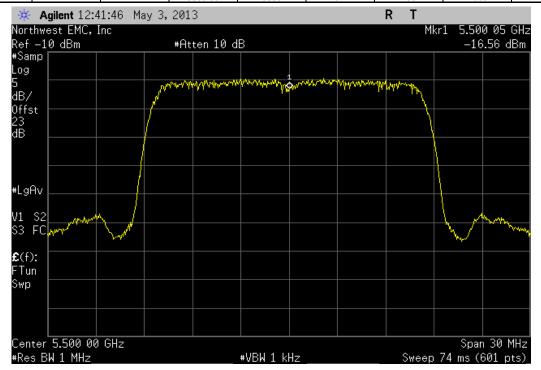
	6 Mbps, 5470	MHz - 5725 MH:	z - Low Channel,	5500 MHz, Temp	erature: +50°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
İ		5500.02	5500	3.6	100	Pass

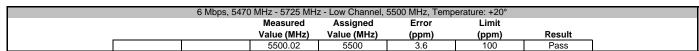


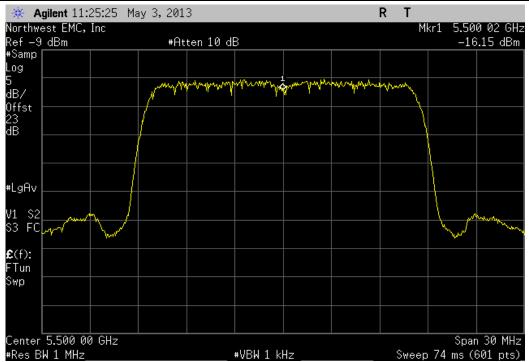




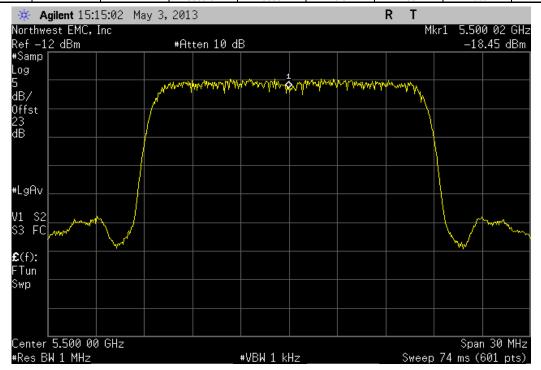
	6 Mbps, 5470	MHz - 5725 MH	z - Low Channel,	5500 MHz, Temp	erature: +30°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
l		5500.05	5500	9.1	100	Pass



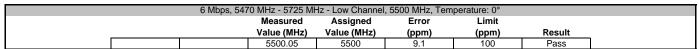


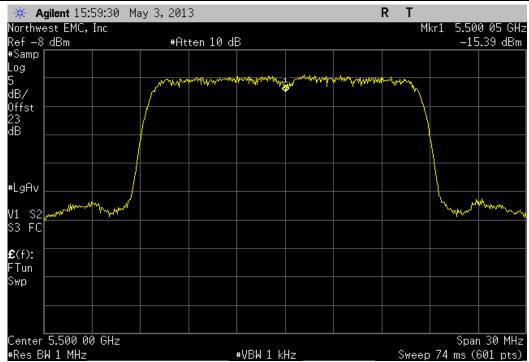


	6 Mbps, 5470	MHz - 5725 MH	z - Low Channel,	5500 MHz, Temp	erature: +10°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5500.02	5500	3.6	100	Pass

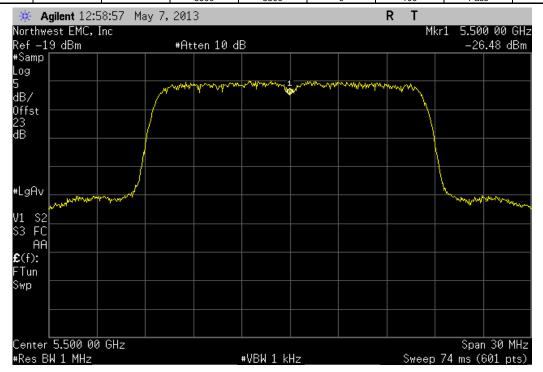


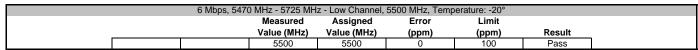


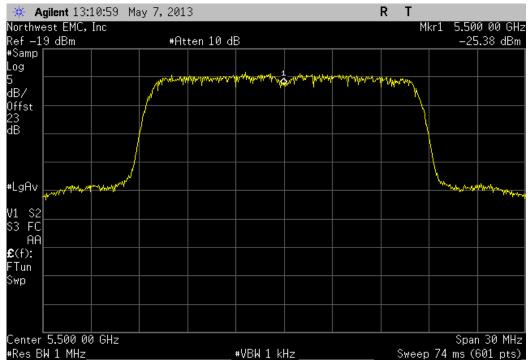




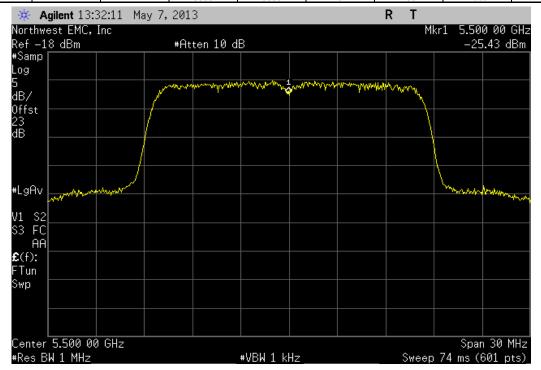
	6 Mbps, 5470) MHz - 5725 MH	z - Low Channel,	5500 MHz, Temp	perature: -10°	
		Measured	Assigned	Error	Limit	
_		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5500	5500	0	100	Pass

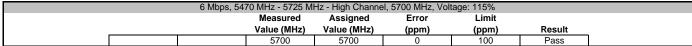


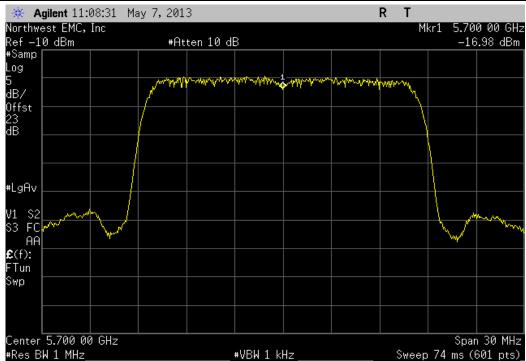




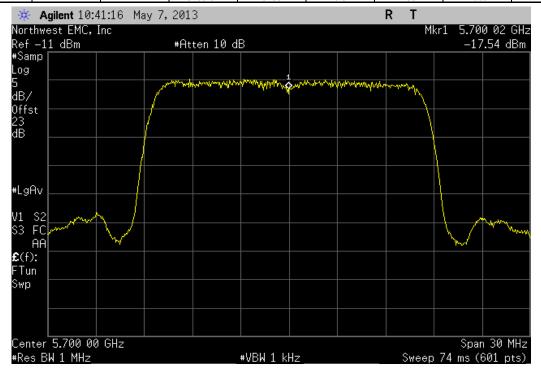
	6 Mbps, 5470) MHz - 5725 MH	z - Low Channel,	5500 MHz, Temp	erature: -30°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
i		5500	5500	0	100	Pass

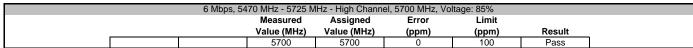


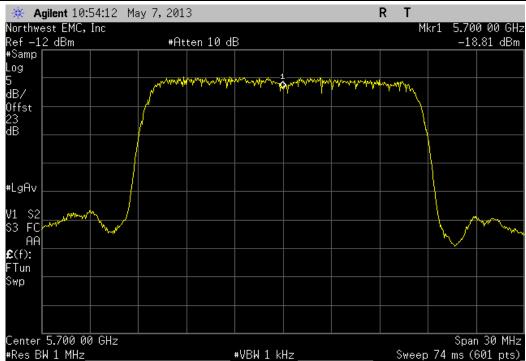




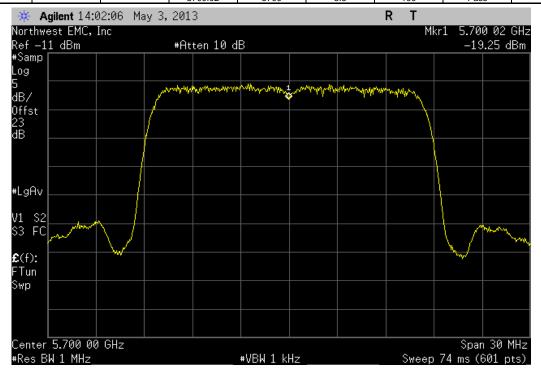
	6 Mbps, 547	70 MHz - 5725 M	Hz - High Channe	l, 5700 MHz, Vol	tage: 100%	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5700.02	5700	3.5	100	Pass



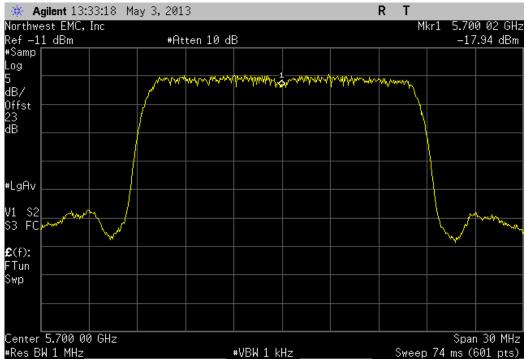




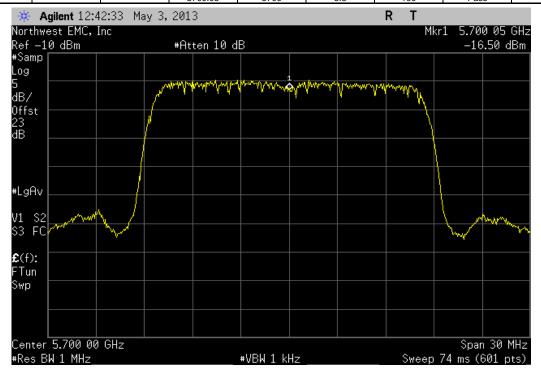
	6 Mbps, 5470	MHz - 5725 MHz	z - High Channel,	5700 MHz, Temp	erature: +50°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5700.02	5700	3.5	100	Pass



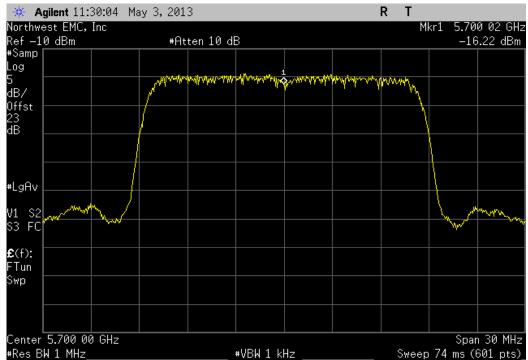




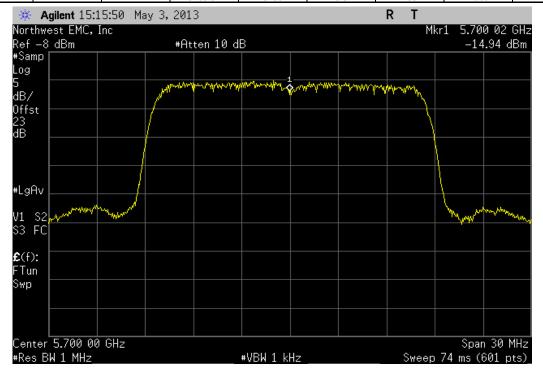
	6 Mbps, 5470	MHz - 5725 MHz	z - High Channel,	5700 MHz, Temp	erature: +30°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5700.05	5700	8.8	100	Pass

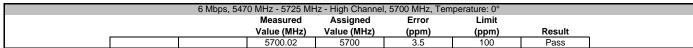


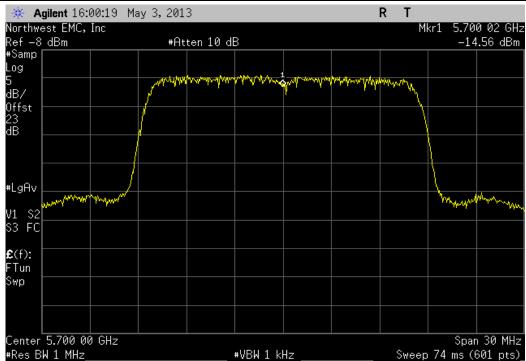




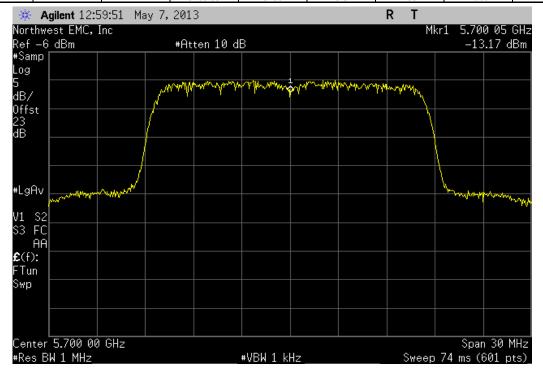
	6 Mbps, 5470	MHz - 5725 MHz	z - High Channel,	5700 MHz, Temp	erature: +10°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5700.02	5700	3.5	100	Pass







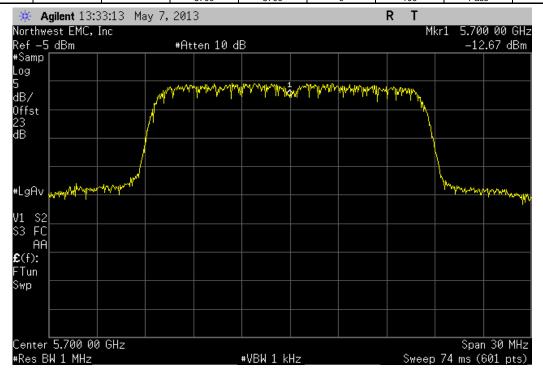
	6 Mbps, 5470	MHz - 5725 MHz	z - High Channel,	5700 MHz, Temp	erature: -10°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5700.05	5700	8.8	100	Pass

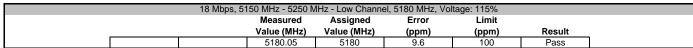


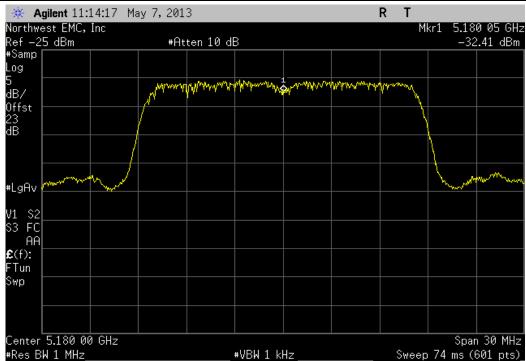




	6 Mbps, 5470	MHz - 5725 MH:	z - High Channel,	5700 MHz, Temp	perature: -30°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5700	5700	0	100	Pass

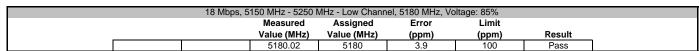


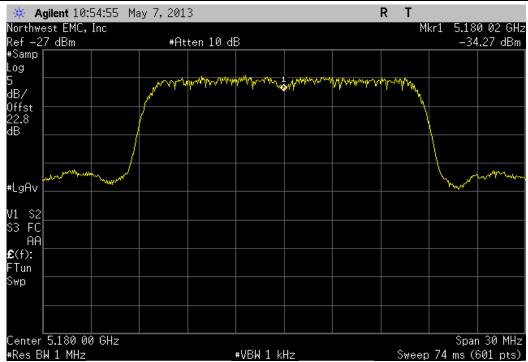




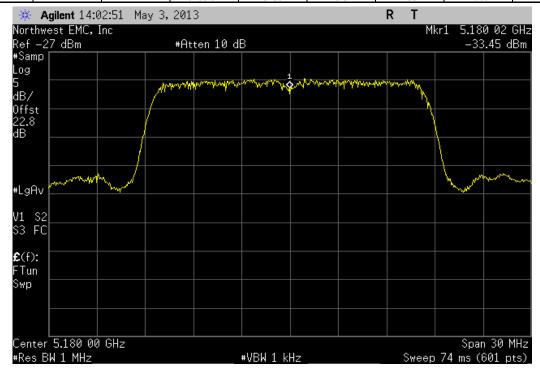
	18 Mbps, 51	50 MHz - 5250 N	1Hz - Low Channe	el, 5180 MHz, Vo	Itage: 100%	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5180.02	5180	3.9	100	Pass

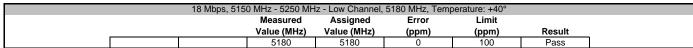


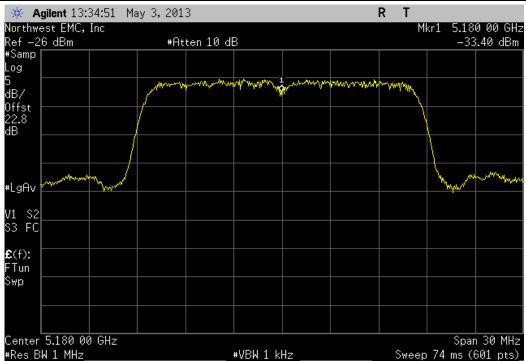




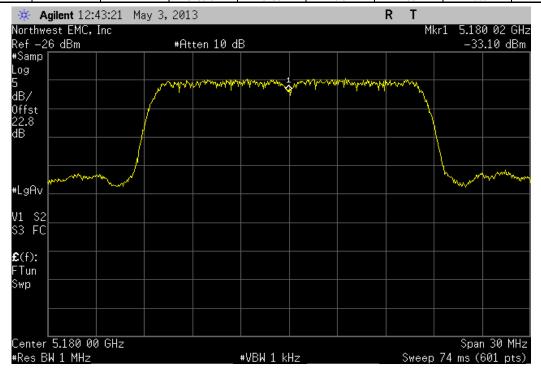
	18 Mbps, 5150	MHz - 5250 MH	Iz - Low Channel,	5180 MHz, Temp	perature: +50°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5180.02	5180	3.9	100	Pass

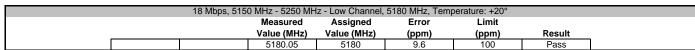


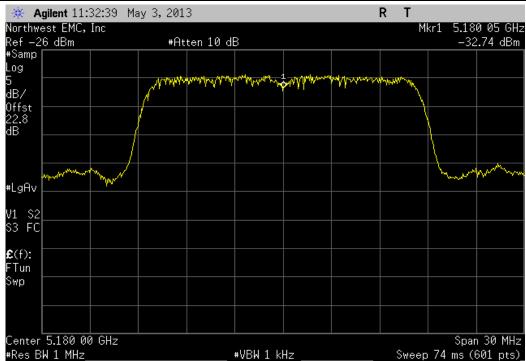




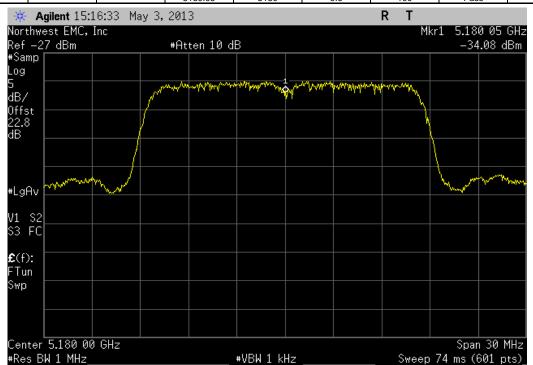
	18 Mbps, 5150) MHz - 5250 MH	lz - Low Channel,	5180 MHz, Temp	perature: +30°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5180.02	5180	3.9	100	Pass

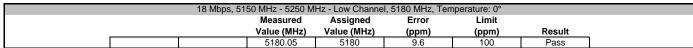


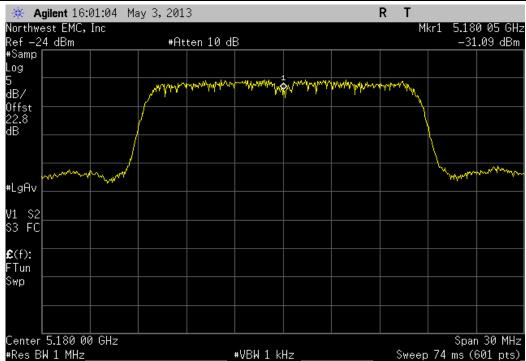




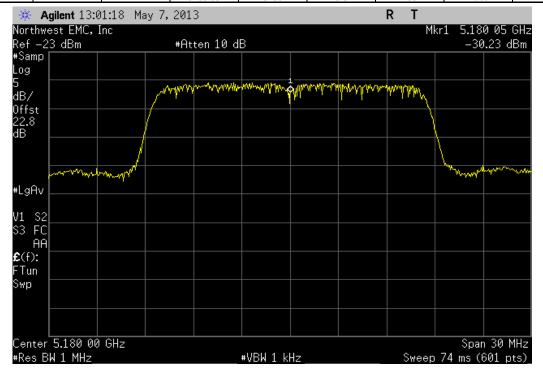
	18 Mbps, 5150 MH	z - 5250 MH	Iz - Low Channel,	5180 MHz, Tem	perature: +10°	
	M	easured	Assigned	Error	Limit	
	Va	lue (MHz)	Value (MHz)	(ppm)	(ppm)	Result
	!	5180.05	5180	9.6	100	Pass

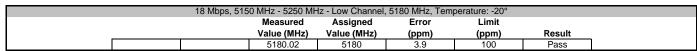






	18 Mbps, 515	0 MHz - 5250 MH	Iz - Low Channel,	5180 MHz, Tem	perature: -10°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5180.05	5180	9.6	100	Pass

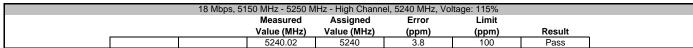


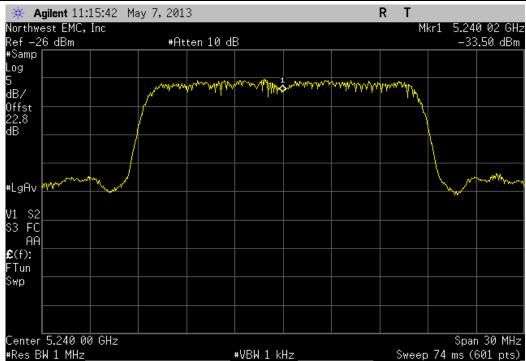




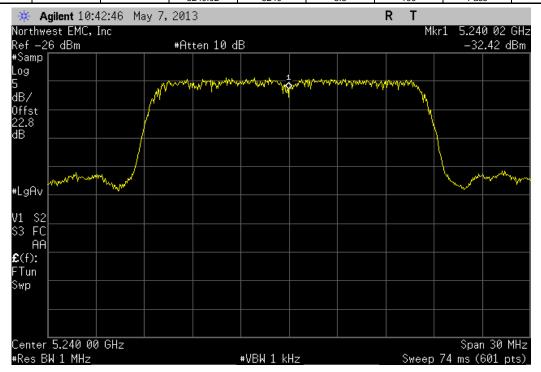
	18 Mbps, 515	0 MHz - 5250 MH	Iz - Low Channel,	5180 MHz, Tem	perature: -30°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5179.98	5180	3.9	100	Pass



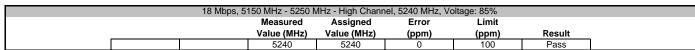


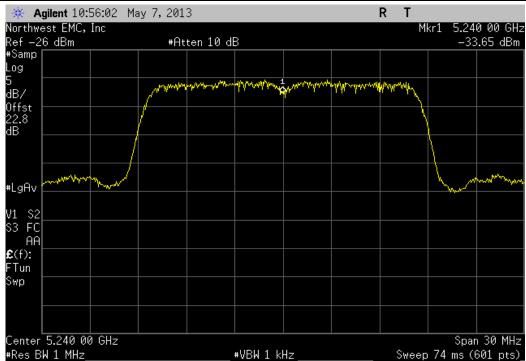


	18 Mbps, 51	50 MHz - 5250 M	IHz - High Channe	el, 5240 MHz, Vo	Itage: 100%	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
1		5240.02	5240	3.8	100	Pass

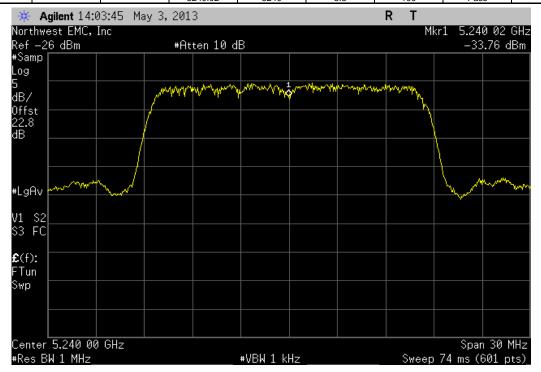


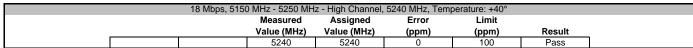


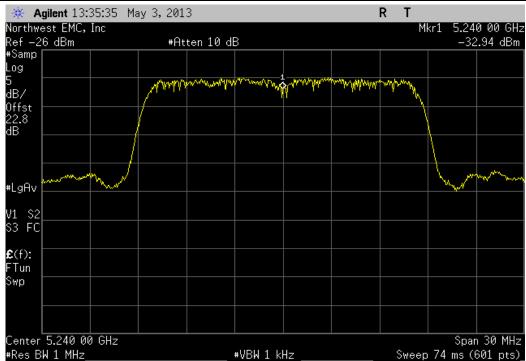




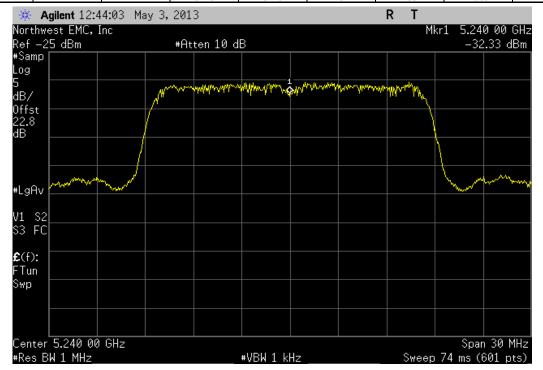
	18 Mbps, 5150	MHz - 5250 MH	z - High Channel,	5240 MHz, Temp	perature: +50°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5240.02	5240	3.8	100	Pass

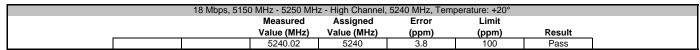






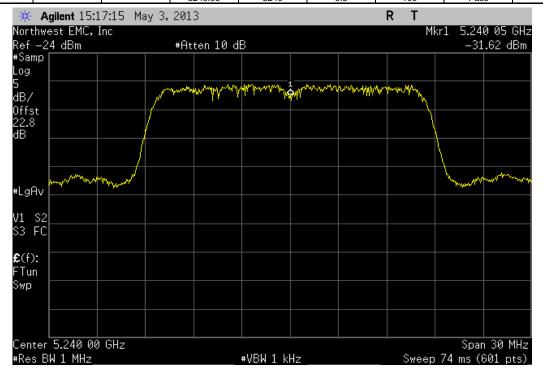
	18 Mbps, 5150) MHz - 5250 MH	z - High Channel,	5240 MHz, Temp	perature: +30°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5240	5240	0	100	Pass

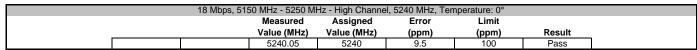






18 Mbps, 515	0 MHz - 5250 MH	z - High Channel,	5240 MHz, Tem	perature: +10°	
	Measured	Assigned	Error	Limit	
	Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
	5240.05	5240	9.5	100	Pass

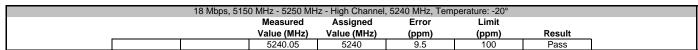


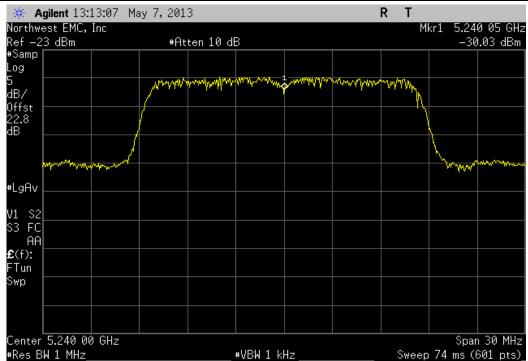




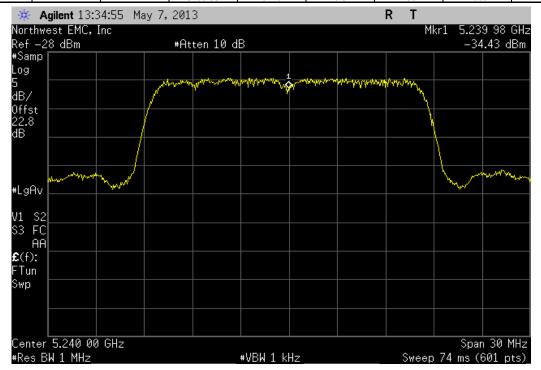
	18 Mbps, 5150) MHz - 5250 MH	Iz - High Channel	, 5240 MHz, Tem	perature: -10°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5240.08	5240	15.3	100	Pass

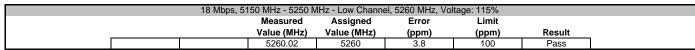


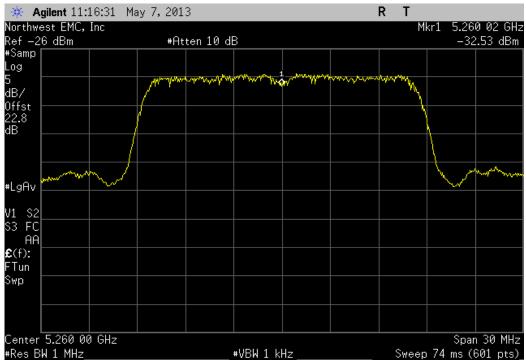




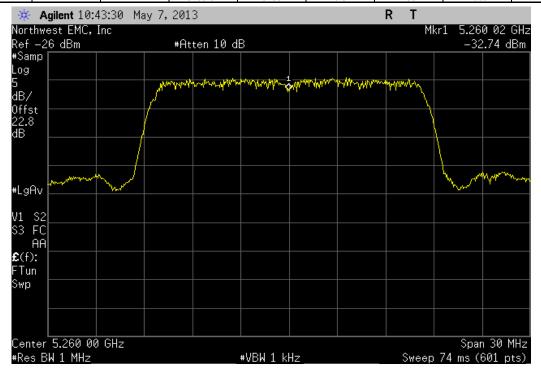
	18 Mbps, 5150	0 MHz - 5250 MH	Iz - High Channel,	5240 MHz, Tem	perature: -30°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5239.98	5240	3.8	100	Pass

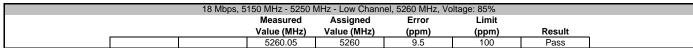


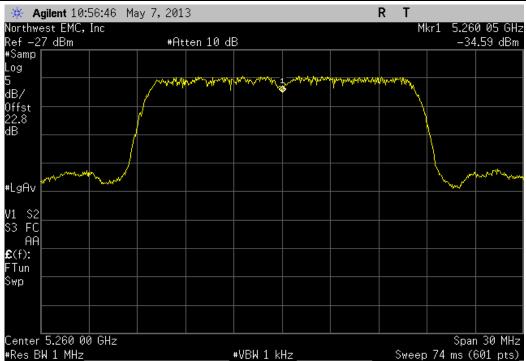




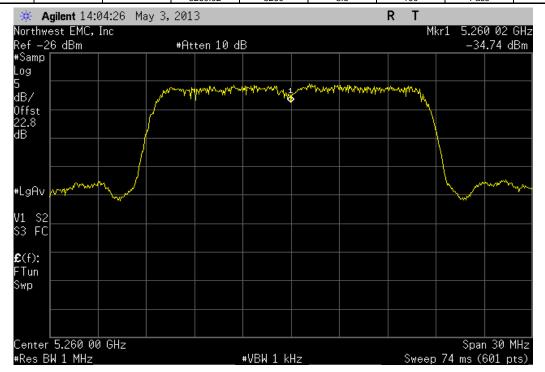
	18 Mbps, 51	50 MHz - 5250 M	1Hz - Low Channe	el, 5260 MHz, Vol	tage: 100%	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5260.02	5260	3.8	100	Pass

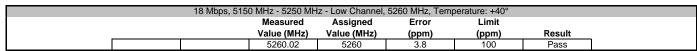






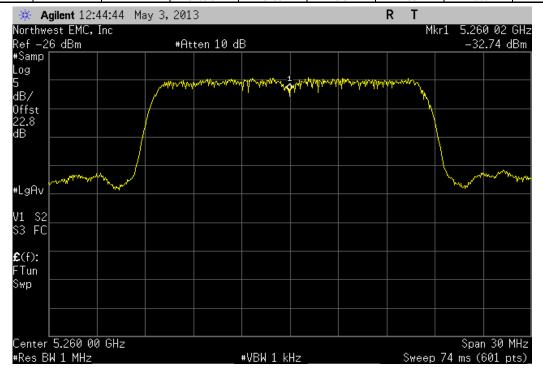
	18 Mbps, 5150	0 MHz - 5250 MH	Iz - Low Channel,	5260 MHz, Tem	perature: +50°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
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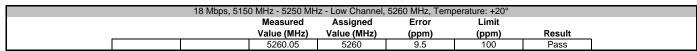


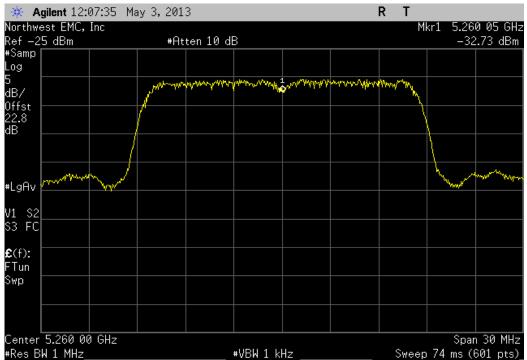




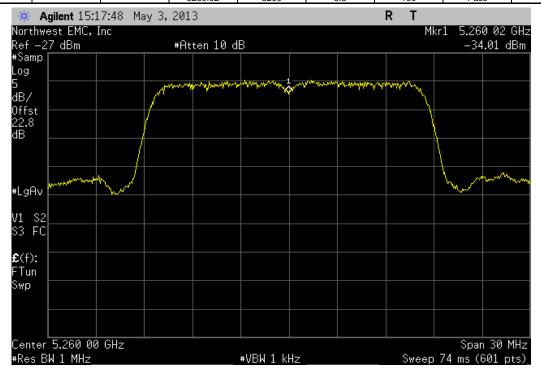
	18 Mbps, 5150) MHz - 5250 MH	lz - Low Channel,	5260 MHz, Temp	perature: +30°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5260.02	5260	3.8	100	Pass

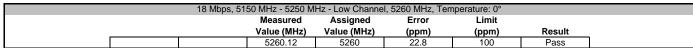


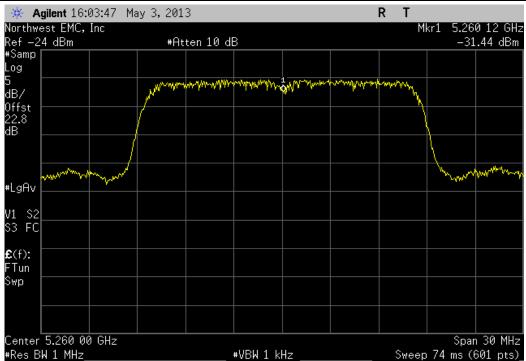




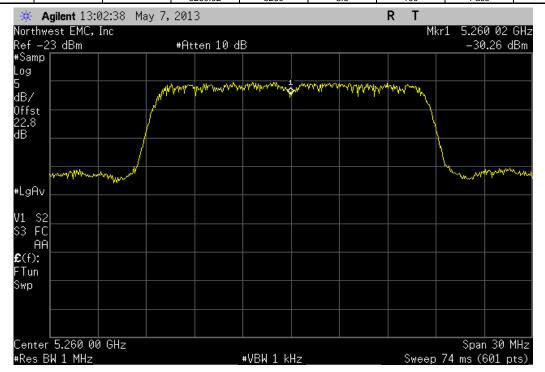
	18 Mbps, 5150	0 MHz - 5250 MH	Iz - Low Channel,	5260 MHz, Temp	perature: +10°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5260.02	5260	3.8	100	Pass

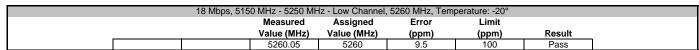






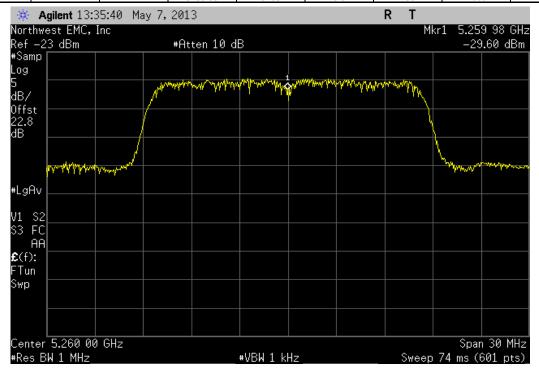
	18 Mbps, 5150	0 MHz - 5250 MH	Iz - Low Channel,	5260 MHz, Tem	perature: -10°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5260.02	5260	3.8	100	Pass

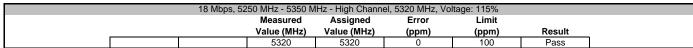


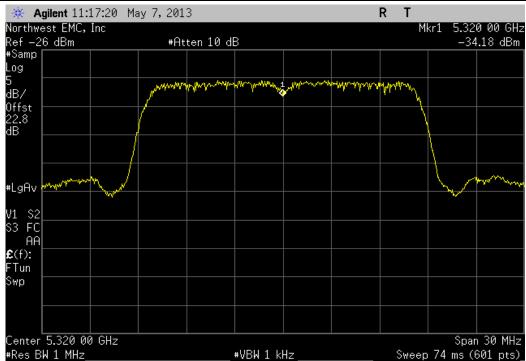




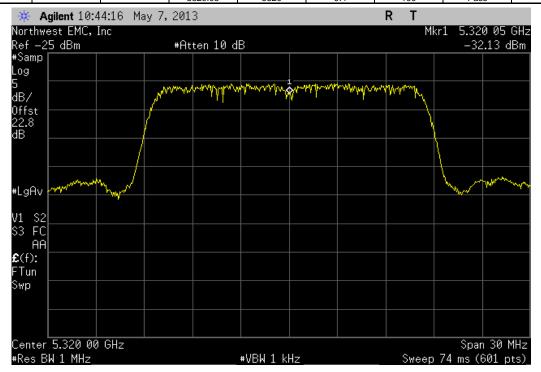
	18 Mbps, 515	0 MHz - 5250 MH	Iz - Low Channel,	5260 MHz, Tem	perature: -30°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5259.98	5260	3.8	100	Pass

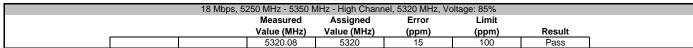


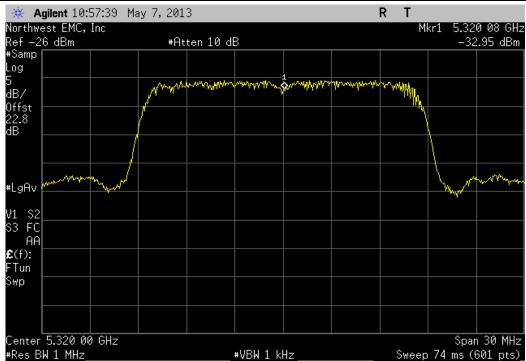




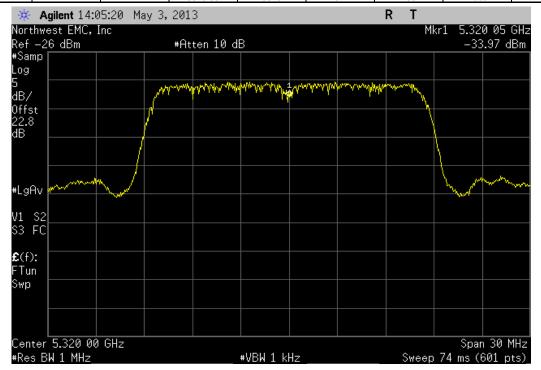
	18 Mbps, 52	50 MHz - 5350 N	1Hz - High Chann	el, 5320 MHz, Vo	Itage: 100%	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5320.05	5320	9.4	100	Pass

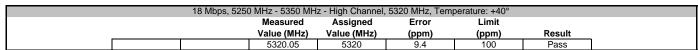


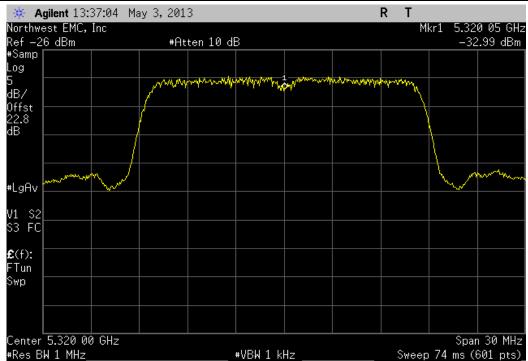




	18 Mbps, 5250	MHz - 5350 MH	z - High Channel,	5320 MHz, Tem	perature: +50°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5320.05	5320	9.4	100	Pass

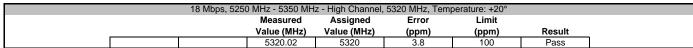






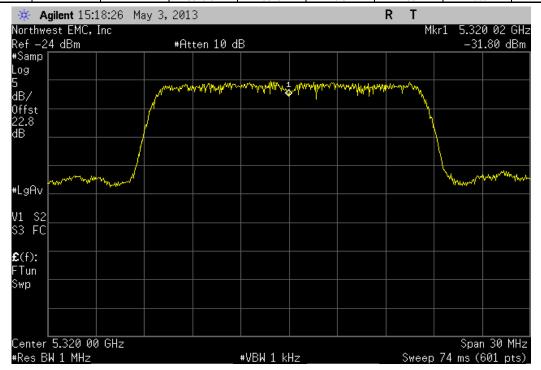
	18 Mbps, 5250	MHz - 5350 MH	z - High Channel,	5320 MHz, Temp	perature: +30°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5320.02	5320	3.8	100	Pass

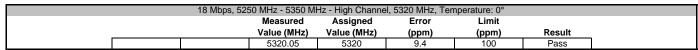






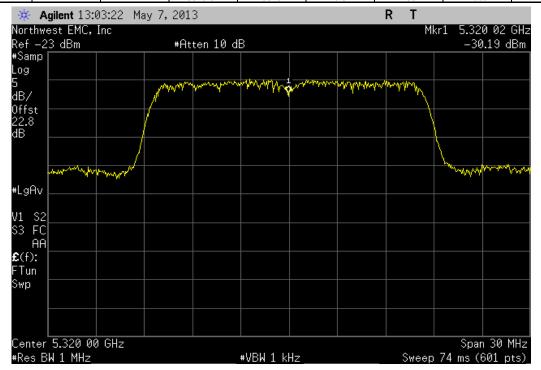
	18 Mbps, 5250	MHz - 5350 MH	z - High Channel,	5320 MHz, Tem	perature: +10°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5320.02	5320	3.8	100	Pass

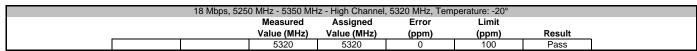






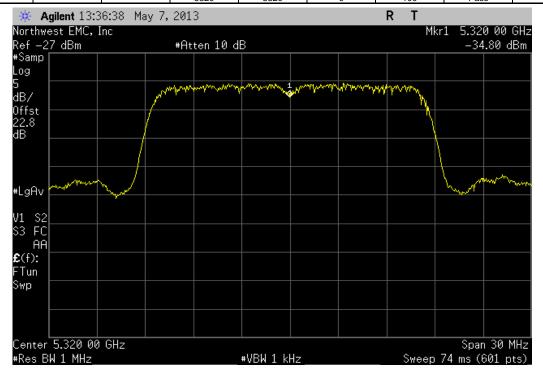
	18 Mbps, 5250	MHz - 5350 MH	Iz - High Channel,	5320 MHz, Tem	perature: -10°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5320.02	5320	3.8	100	Pass

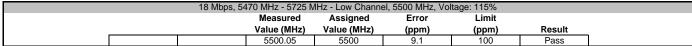


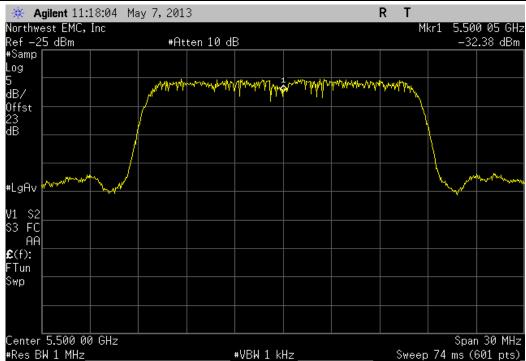




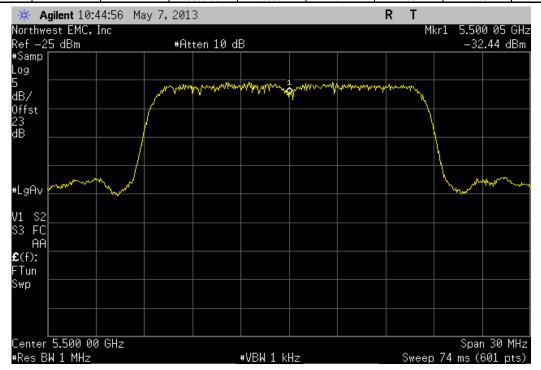
	18 Mbps, 525	0 MHz - 5350 MH	Iz - High Channel	, 5320 MHz, Tem	perature: -30°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5320	5320	0	100	Pass

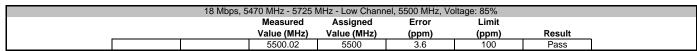


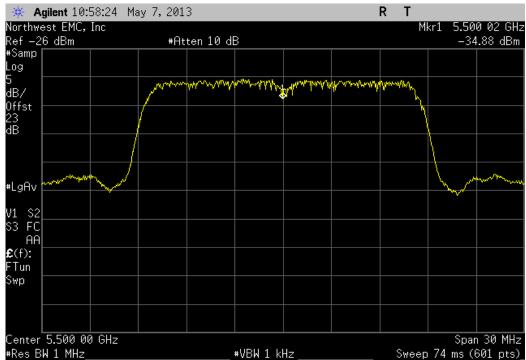




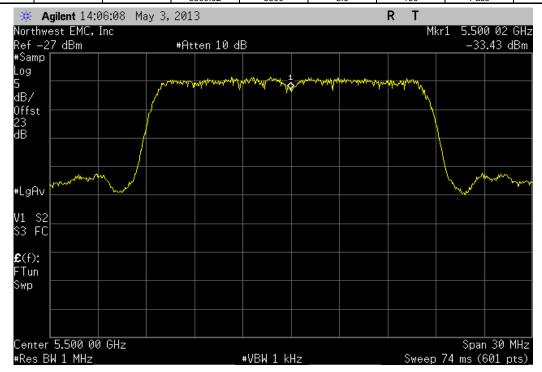
	18 Mbps, 54	70 MHz - 5725 N	1Hz - Low Channe	el, 5500 MHz, Vo	Itage: 100%	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5500.05	5500	9.1	100	Pass

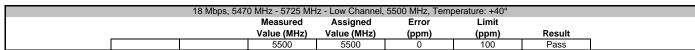


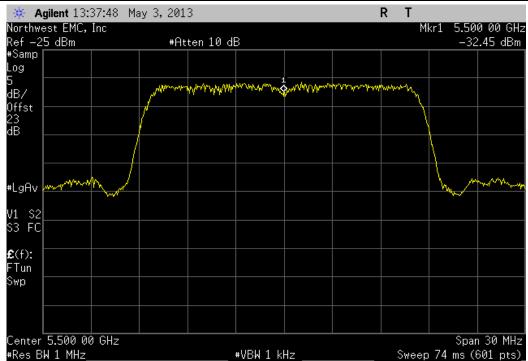




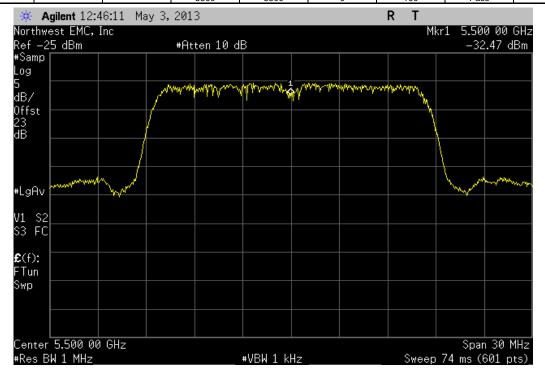
	18 Mbps, 5470) MHz - 5725 MH	z - Low Channel,	5500 MHz, Temp	perature: +50°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5500.02	5500	3.6	100	Pass

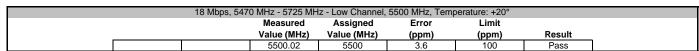


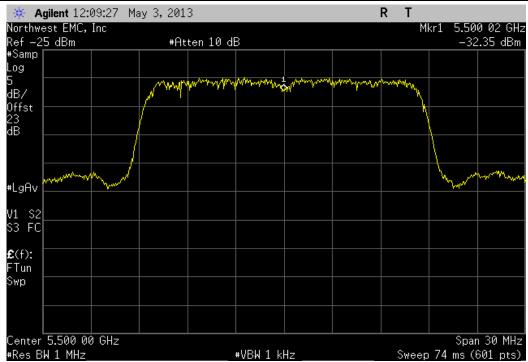




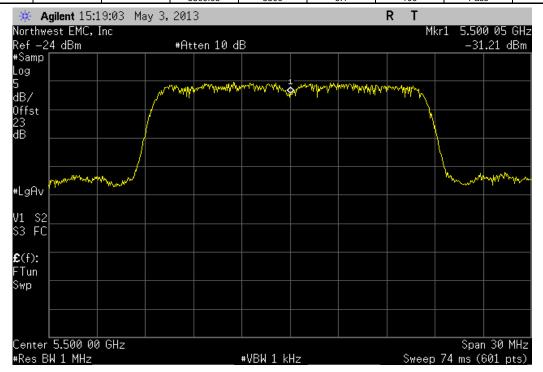
	18 Mbps, 5470) MHz - 5725 MH	Iz - Low Channel,	5500 MHz, Temp	perature: +30°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5500	5500	0	100	Pass

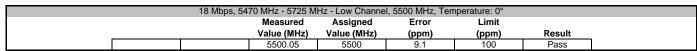






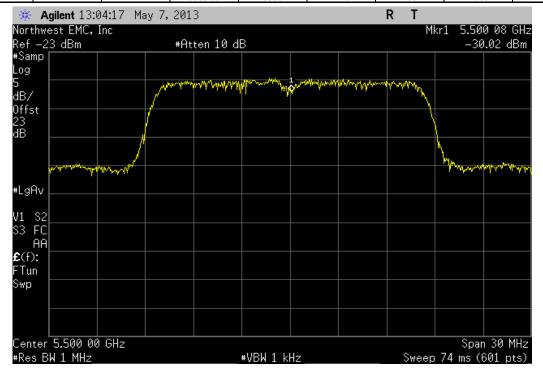
	18 Mbps, 5470) MHz - 5725 MH	Iz - Low Channel,	5500 MHz, Temp	perature: +10°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5500.05	5500	9.1	100	Pass

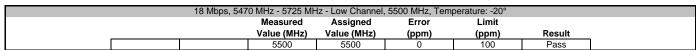


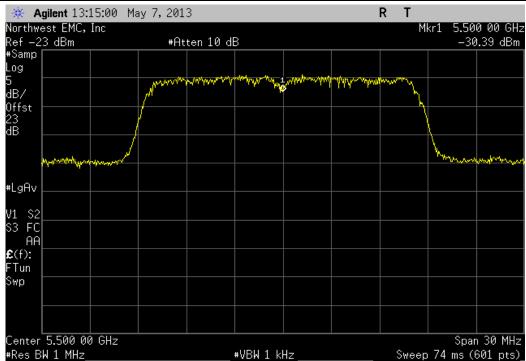




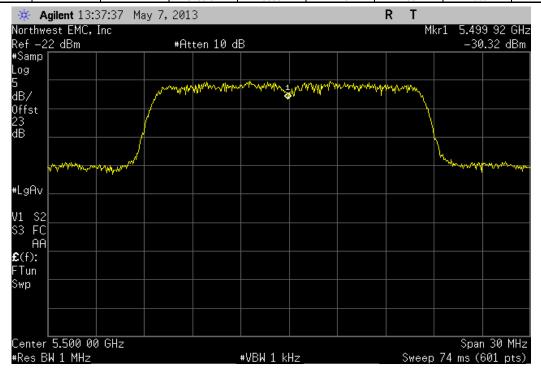
	18 Mbps, 5470	0 MHz - 5725 MH	Iz - Low Channel,	5500 MHz, Tem	perature: -10°	
		Measured	Assigned	Error	Limit	
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result
		5500.08	5500	14.6	100	Pass

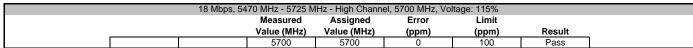


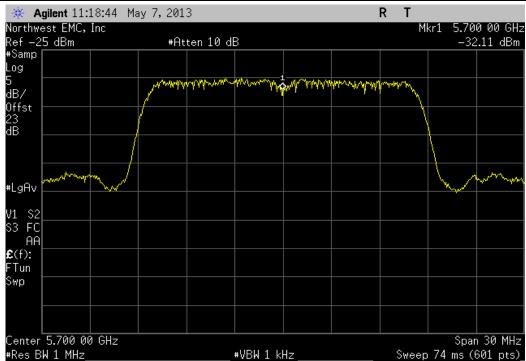




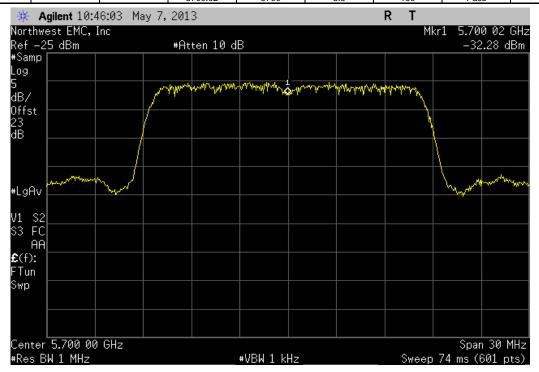
	18 Mbps, 5470 MHz - 5725 MHz - Low Channel, 5500 MHz, Temperature: -30°									
			Measured	Assigned	Error	Limit				
			Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result			
ĺ			5499.92	5500	14.6	100	Pass			

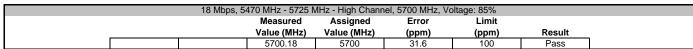


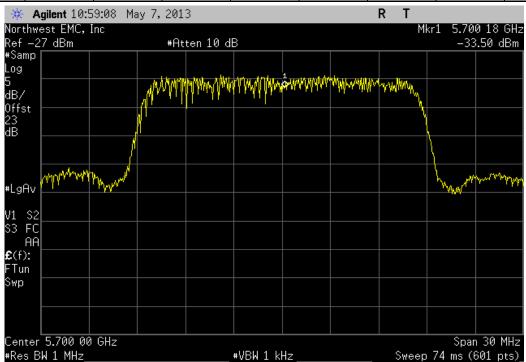




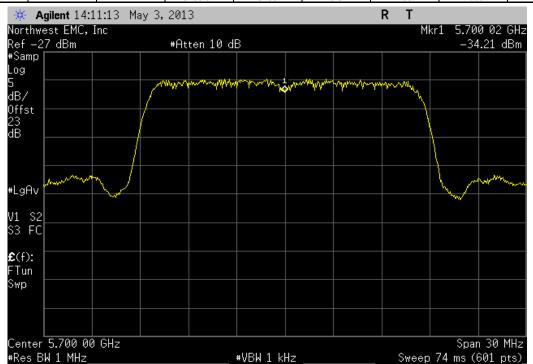
	18 Mbps, 5470 MHz - 5725 MHz - High Channel, 5700 MHz, Voltage: 100%									
			Measured	Assigned	Error	Limit				
			Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result			
l			5700.02	5700	3.5	100	Pass			

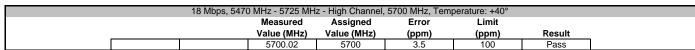


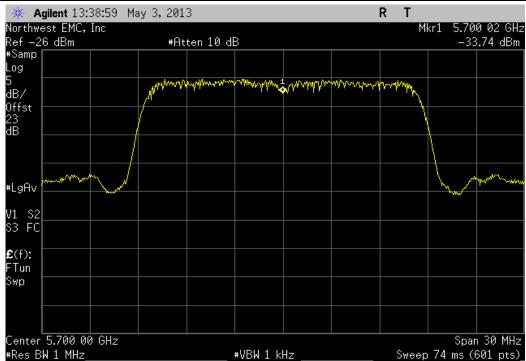




18 Mbps, 5470 MHz - 5725 MHz - High Channel, 5700 MHz, Temperature: +50°									
		Measured	Assigned	Error	Limit				
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result			
		5700.02	5700	3.5	100	Pass			

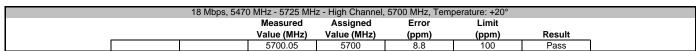


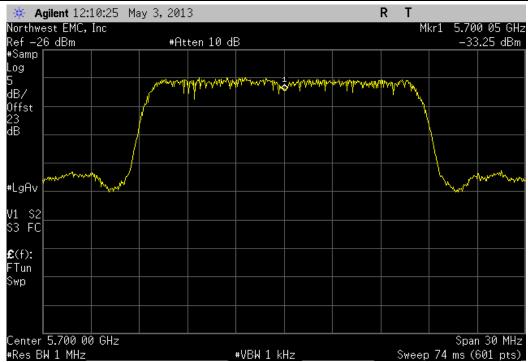




18 Mbps, 5470 MHz - 5725 MHz - High Channel, 5700 MHz, Temperature: +30°									
		Measured	Assigned	Error	Limit				
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result			
		5700.02	5700	3.5	100	Pass			

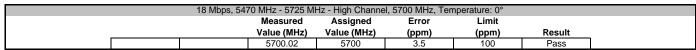


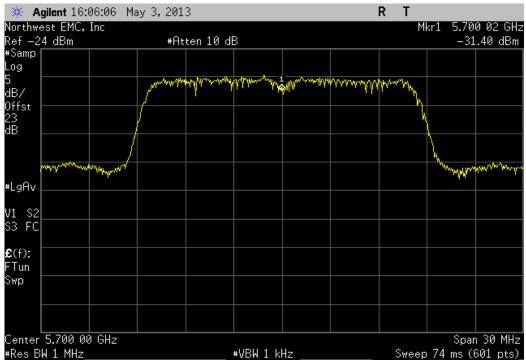




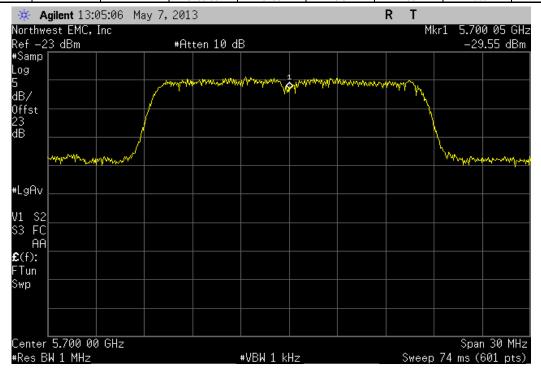
18 Mbps, 5470 MHz - 5725 MHz - High Channel, 5700 MHz, Temperature: +10°									
	Measured	Assigned	Error	Limit					
	Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result				
	5700.05	5700	8.8	100	Pass				

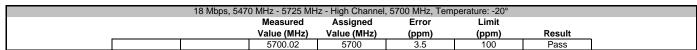


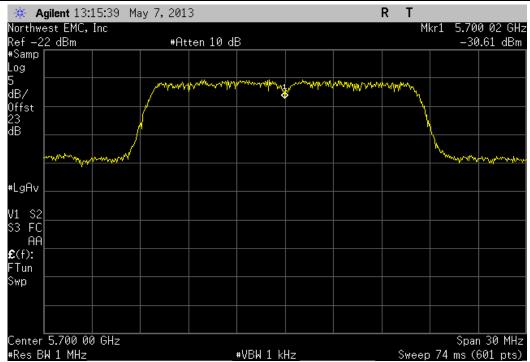




18 Mbps, 5470 MHz - 5725 MHz - High Channel, 5700 MHz, Temperature: -10°									
		Measured	Assigned	Error	Limit				
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result			
		5700.05	5700	8.8	100	Pass			







18 Mbps, 5470 MHz - 5725 MHz - High Channel, 5700 MHz, Temperature: -30°									
		Measured	Assigned	Error	Limit				
		Value (MHz)	Value (MHz)	(ppm)	(ppm)	Result			
		5699.98	5700	3.5	100	Pass			





Spurious Radiated Emissions

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

MODES OF OPERATION

Transmitting 802.11a, 50% Duty Cycle

POWER SETTINGS INVESTIGATED

3.3V DC

CONFIGURATIONS INVESTIGATED

FOCU0141 - 1

FREQUENCY RANGE INVESTIGATED

Start Frequency 30 MHz Stop Frequency 40000 MHz

SAMPLE CALCULATIONS

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

TEST EQUIPMENT

TEST EQUIT WILLIAM					
Description	Manufacturer	Model	ID	Last Cal.	Interval
High Pass Filter	Micro-Tronics	HPM50112	HGA	10/4/2012	24 mo
5.725-5.875 Notch Filter	Micro-Tronics	BRC50705	HGJ	3/21/2012	24 mo
5.47-5.725 Notch Filter	Micro-Tronics	BRC50704	HGI	10/4/2012	24 mo
5.25 GHz Notch Filter	K&L Microwave	8N50-5250/X200-0/0	HFK	3/21/2012	24 mo
EV01 Cable	ESM Cable Corp.	TTBJ-141 KMKM-72	ECC	8/27/2012	12 mo
Antenna, Horn	EMCO	3115	AHC	6/20/2012	24 mo
Spectrum Analyzer	Agilent	E4440A	AFD	7/5/2012	24 mo
OC Cable	ESM Cable Corp.	KMKM-72	OCV	6/28/2012	12 mo
Pre-Amplifier	Miteq	JSW45-26004000-40-5P	AVR	6/28/2012	12 mo
Antenna, Horn	ETS Lindgren	3160-10	AIW	NCR	0 mo
Cable	ESM Cable Corp.	KMKM-72	EVY	9/11/2012	12 mo
Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AVU	9/11/2012	12 mo
Antenna, Horn	ETS Lindgren	3160-09	AIV	NCR	0 mo
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVD	2/27/2013	12 mo
Antenna, Horn	ETS	3160-08	AHV	NCR	0 mo
EV01 Cables	N/A	Standard Gain Horns Cables	EVF	2/27/2013	12 mo
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVC	2/27/2013	12 mo
Antenna, Horn	ETS	3160-07	AHU	NCR	0 mo
EV01 Cables	N/A	Double Ridge Horn Cables	EVB	6/27/2012	12 mo
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	6/27/2012	12 mo
Antenna, Horn	ETS	3115	AIZ	1/24/2011	36 mo
EV01 Cables	N/A	Bilog Cables	EVA	6/26/2012	12 mo
Pre-Amplifier	Miteq	AM-1616-1000	AOL	6/26/2012	12 mo
Antenna, Biconilog	EMCO	3141	AXG	4/10/2012	36 mo
MXG Vector Signal Generator	Agilent	N5182A	TIF	NCR	0 mo

MEASUREMENT BANDWIDTHS

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

TEST DESCRIPTION

The highest gain antenna of each type to be used with the EUT were tested. The EUT was configured for the lowest, a middle, and the highest transmit frequency in each operational band. For each configuration, the spectrum was scanned throughout the specified range. Measurements were made to satisfy the three requirements of 47 CFR 15.407: Field strength under 1GHz, Restricted Bands of 47 CFR 15.205, and EIRP of 47 CFR 15.407.

While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis, and adjusting the measurement antenna height and polarization (per ANSI C63.10:2009). A preamp and high pass filter (and notch filter) were used for this test in order to provide sufficient measurement sensitivity.

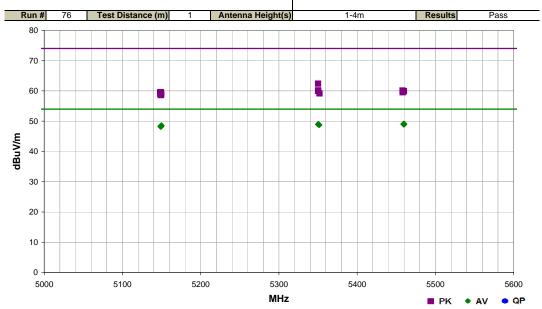


Spurious Radiated Emissions

Work Order:	FOCU0141	Date:	05/02/13	10121							
Project:	None	Temperature:	22.1 °C	Rolly le Relengs							
Job Site:	EV01	Humidity:	29% RH								
Serial Number:	202EA4C0001C4	Barometric Pres.:	1030 mbar	Tested by: Carl Engholm, Rod Peloquir							
EUT:	Model 444-2224 (Athena 4X)										
Configuration:	I.										
Customer:	Summit Semiconductor										
Attendees:	None										
EUT Power:	3.3V DC										
Operating Mode:	Transmitting 802.11a	Transmitting 802.11a, 50% Duty Cycle									
Deviations:	None										
Comments:	See comment below for frequency, data rate, and EUT orientation.										

Test Specifications
FCC 15.407:2013

Test Method



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
5459.853	21.1	37.6	1.0	110.0	1.0	0.0	Vert	AV	-9.5	49.1	54.0	-4.9	5500 MHz, 6 Mbps, EUT on Side
5459.860	21.0	37.6	1.0	188.0	1.0	0.0	Vert	AV	-9.5	49.0	54.0	-5.0	5500 MHz, 18 Mbps, EUT on Side
5459.137	21.0	37.6	1.0	290.0	1.0	0.0	Horz	AV	-9.5	49.0	54.0	-5.0	5500 MHz, 6 Mbps, EUT on Side
5350.070	21.1	37.4	1.0	258.0	1.0	0.0	Horz	AV	-9.5	49.0	54.0	-5.0	5320 MHz, 18 Mbps, EUT on Side
5350.273	21.1	37.4	1.0	76.0	1.0	0.0	Vert	AV	-9.5	49.0	54.0	-5.0	5320 MHz, 6 Mbps, EUT on Side
5350.640	21.1	37.4	1.0	278.0	1.0	0.0	Vert	AV	-9.5	49.0	54.0	-5.0	5320 MHz, 18 Mbps, EUT on Side
5459.833	20.9	37.6	1.0	291.0	1.0	0.0	Horz	AV	-9.5	48.9	54.0	-5.1	5500 MHz, 18 Mbps, EUT on Side
5351.627	20.9	37.4	1.0	24.0	1.0	0.0	Horz	AV	-9.5	48.8	54.0	-5.2	5320 MHz, 6 Mbps, EUT on Side
5149.963	21.3	36.8	1.0	194.0	1.0	0.0	Vert	AV	-9.5	48.6	54.0	-5.4	5180 MHz, 6 Mbps, EUT on Side
5149.110	21.1	36.8	1.0	356.0	1.0	0.0	Vert	AV	-9.5	48.4	54.0	-5.6	5180 MHz, 18 Mbps, EUT on Side
5149.480	21.0	36.8	1.0	263.0	1.0	0.0	Horz	AV	-9.5	48.3	54.0	-5.7	5180 MHz, 6 Mbps, EUT Horizontal
5148.607	20.9	36.8	1.0	146.0	1.0	0.0	Horz	AV	-9.5	48.2	54.0	-5.8	5180 MHz, 18 Mbps, EUT on Side
5148.870	20.9	36.8	1.0	35.0	1.0	0.0	Vert	AV	-9.5	48.2	54.0	-5.8	5180 MHz, 6 Mbps, EUT Horizontal
5149.233	20.9	36.8	1.0	305.0	1.0	0.0	Horz	AV	-9.5	48.2	54.0	-5.8	5180 MHz, 6 Mbps, EUT on Side
5350.170	34.5	37.4	1.0	24.0	1.0	0.0	Horz	PK	-9.5	62.4	74.0	-11.6	5320 MHz, 6 Mbps, EUT on Side
5350.287	32.3	37.4	1.0	278.0	1.0	0.0	Vert	PK	-9.5	60.2	74.0	-13.8	5320 MHz, 18 Mbps, EUT on Side
5458.060	32.1	37.6	1.0	110.0	1.0	0.0	Vert	PK	-9.5	60.1	74.0	-13.9	5500 MHz, 6 Mbps, EUT on Side
5350.043	32.1	37.4	1.0	258.0	1.0	0.0	Horz	PK	-9.5	60.0	74.0	-14.0	5320 MHz, 18 Mbps, EUT on Side
5459.860	31.9	37.6	1.0	188.0	1.0	0.0	Vert	PK	-9.5	59.9	74.0	-14.1	5500 MHz, 18 Mbps, EUT on Side
5458.597	31.9	37.6	1.0	290.0	1.0	0.0	Horz	PK	-9.5	59.9	74.0	-14.1	5500 MHz, 6 Mbps, EUT on Side
5149.097	32.3	36.8	1.0	194.0	1.0	0.0	Vert	PK	-9.5	59.6	74.0	-14.4	5180 MHz, 6 Mbps, EUT on Side
5458.223	31.5	37.6	1.0	291.0	1.0	0.0	Horz	PK	-9.5	59.5	74.0	-14.5	5500 MHz, 18 Mbps, EUT on Side
5148.337	32.2	36.8	1.0	146.0	1.0	0.0	Horz	PK	-9.5	59.5	74.0	-14.5	5180 MHz, 18 Mbps, EUT on Side
5149.543	31.9	36.8	1.0	356.0	1.0	0.0	Vert	PK	-9.5	59.2	74.0	-14.8	5180 MHz, 18 Mbps, EUT on Side
5351.905	31.3	37.4	1.0	76.0	1.0	0.0	Vert	PK	-9.5	59.2	74.0	-14.8	5320 MHz, 6 Mbps, EUT on Side
5148.540	31.7	36.8	1.0	35.0	1.0	0.0	Vert	PK	-9.5	59.0	74.0	-15.0	5180 MHz, 6 Mbps, EUT Horizontal
5149.743	31.5	36.8	1.0	263.0	1.0	0.0	Horz	PK	-9.5	58.8	74.0	-15.2	5180 MHz, 6 Mbps, EUT Horizontal
5149.033	31.3	36.8	1.0	305.0	1.0	0.0	Horz	PK	-9.5	58.6	74.0	-15.4	5180 MHz, 6 Mbps, EUT on Side

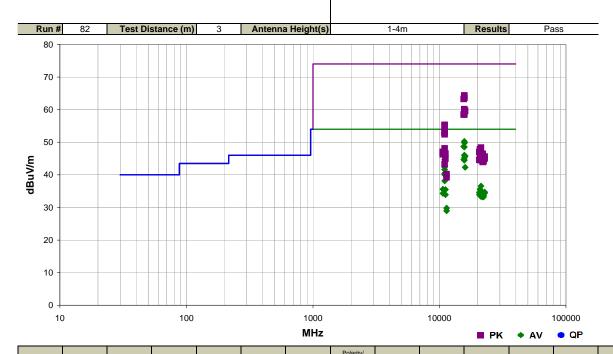


Spurious Radiated Emissions

Work Order:	FOCU0141	Date:	05/06/13									
Project:	None	Temperature:	24 °C	1111								
Job Site:	EV01	Humidity:	Humidity: 32.3% RH									
Serial Number:	202EA4C0001C4	Barometric Pres.:	1011.2 mbar	Tested by: C Ghizzone, D Hass, B Hobbs								
EUT:	Model 444-2224 (Athena 4X)											
Configuration:												
Customer:	Summit Semiconductor											
Attendees:	None											
EUT Power:	3.3V DC											
Operating Mode:	Transmitting 802.11a,	Transmitting 802.11a, 50% Duty Cycle										
Deviations:	None											
Comments:	See comment below for frequency, data rate, and EUT orientation.											

Test Specifications
FCC 15.407:2013

Test Method ANSI C63.10:2009



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	
15720.960	40.0	10.2	1.1	246.0	3.0	0.0	Horz	AV	0.0	50.2	54.0	-3.8	Comments 5240MHz, 6 Mbps, EUT on Side
15780.250	39.5	10.2	1.1	245.0	3.0	0.0	Horz	AV	0.0	49.8	54.0	-3.6 -4.2	5260MHz, 6 Mbps, EUT on Side
15540.080	38.6	10.3	1.1	245.0	3.0	0.0	Horz	AV	0.0	48.7	54.0	-5.3	5180MHz, 6 Mbps, EUT on Side
15721.150	38.3	10.1	1.1	246.0	3.0	0.0	Horz	AV	0.0	48.5	54.0	-5.5 -5.5	5240MHz, 18 Mbps, EUT on Side
15721.130	35.8	10.2	1.1	246.0	3.0	0.0	Vert	AV	0.0	46.0	54.0	-5.5 -8.0	5240MHz, 6 Mbps, EUT Horizontal
15720.320	35.0	10.2	1.0	344.0	3.0	0.0	Horz	AV	0.0	45.8	54.0	-8.2	5320MHz, 6 Mbps, EUT on Side
15779.970	35.0	10.3	1.0	109.0	3.0	0.0	Vert	AV	0.0	45.3	54.0	-8.7	5260MHz, 6 Mbps, EUT Horizontal
10999.290	54.1	-9.4	1.2	115.0	3.0	0.0	Horz	AV	0.0	44.7	54.0	-9.3	5500 MHz, 6 Mbps, EUT on side
15540.030	34.6	10.1	1.1	279.0	3.0	0.0	Vert	AV	0.0	44.7	54.0	-9.3	5180MHz, 6 Mbps, EUT Horizontal
15720.570	34.3	10.1	1.1	281.0	3.0	0.0	Vert	AV	0.0	44.5	54.0	-9.5	5240MHz, 18 Mbps, EUT Horizontal
15720.330	34.3	10.2	1.0	2.0	3.0	0.0	Vert	AV	0.0	44.5	54.0	-9.5	5240MHz, 6 Mbps, EUT on Side
15724.120	54.1	10.2	1.1	246.0	3.0	0.0	Horz	PK	0.0	64.3	74.0	-9.7	5240MHz. 18 Mbps. EUT on Side
15721.960	53.9	10.2	1.1	246.0	3.0	0.0	Horz	PK	0.0	64.1	74.0	-9.9	5240MHz, 6 Mbps, EUT on Side
11001.070	53.5	-9.4	1.3	226.0	3.0	0.0	Horz	AV	0.0	44.1	54.0	-9.9	5500 MHz, 6 Mbps, EUT Vertical
15782.250	53.3	10.3	1.1	245.0	3.0	0.0	Horz	PK	0.0	63.6	74.0	-10.4	5260MHz, 6 Mbps, EUT on Side
15542.330	53.2	10.1	1.1	246.0	3.0	0.0	Horz	PK	0.0	63.3	74.0	-10.7	5180MHz, 6 Mbps, EUT on Side
10998.730	52.0	-9.4	1.3	8.0	3.0	0.0	Vert	AV	0.0	42.6	54.0	-11.4	5500 MHz, 6 Mbps, EUT Vertical
11001.200	51.8	-9.4	1.4	222.0	3.0	0.0	Vert	AV	0.0	42.4	54.0	-11.6	5500 MHz, 6 Mbps, EUT Horizontal
15960.030	31.7	10.6	1.0	109.0	3.0	0.0	Vert	AV	0.0	42.3	54.0	-11.7	5320MHz, 6 Mbps, EUT Horizontal
11001.190	51.0	-9.4	1.0	353.0	3.0	0.0	Horz	AV	0.0	41.6	54.0	-12.4	5500 MHz, 18 Mbps, EUT on side
11001.190	49.8	-9.4	1.3	316.0	3.0	0.0	Vert	AV	0.0	40.4	54.0	-13.6	5500 MHz, 18 Mbps, EUT Horizontal
15724.360	49.9	10.2	1.1	281.0	3.0	0.0	Vert	PK	0.0	60.1	74.0	-13.9	5240MHz, 18 Mbps, EUT Horizontal
11001.270	49.4	-9.4	1.1	213.0	3.0	0.0	Vert	AV	0.0	40.0	54.0	-14.0	5500 MHz, 6 Mbps, EUT on side
15722.410	49.7	10.2	1.1	281.0	3.0	0.0	Vert	PK	0.0	59.9	74.0	-14.1	5240MHz, 6 Mbps, EUT Horizontal
15962.250	49.0	10.6	1.0	344.0	3.0	0.0	Horz	PK	0.0	59.6	74.0	-14.4	5320MHz, 6 Mbps, EUT on Side
15782.300	48.8	10.3	1.0	109.0	3.0	0.0	Vert	PK	0.0	59.1	74.0	-14.9	5260MHz, 6 Mbps, EUT Horizontal
15542.250	48.4	10.1	1.1	279.0	3.0	0.0	Vert	PK	0.0	58.5	74.0	-15.5	5180MHz, 6 Mbps, EUT Horizontal

Freq														
Force Application Foscos Application							Futernal	Polarity/		Distance			Composed to	
	Fred	Amplitude	Factor	Antenna Height	Azimuth	Test Distance			Detector		Adjusted	Spec Limit		
15722.530 48.2 10.2 1.0 2.0 3.0 0.0 Vert PK 0.0 86.4 74.0 -15.6 5240MHz, 6 Mbps, EUT on Side 11001.130 47.5 9.4 1.0 355.0 3.0 0.0 Horz AV 0.0 38.1 54.0 -15.9 5500 MHz, 6 Mbps, EUT on Side Mbps, 5200 MHz 20985.010 39.6 -4.0 1.0 3.0 3.0 0.0 Horz AV 0.0 35.6 54.0 -17.5 5500 MHz, 6 Mbps, 5200 MHz 20985.010 39.6 -4.0 1.0 3.0 3.0 0.0 Horz AV 0.0 35.6 54.0 -18.4 EUT On Side, 6 Mbps, 5240 MHz 11580 3.0 0.0 Horz AV 0.0 35.6 54.0 -18.4 EUT On Side, 6 Mbps, EUT On Side 6 Mbps, 5240 MHz 11580 3.0 0.0 Horz AV 0.0 35.5 54.0 -18.5 5500 MHz, 6 Mbps, EUT On Side 50086.370 MHz, 6 Mbps, 50086.370 MHz, 6 M								.,,,,	Detector					
1101-130 47.5 -9.4 1.0 355.0 3.0 0.0 Horz AV 0.0 38.1 54.0 -15.9 5500 MHz. 6 Mbps, 5240 MHz 20985.010 30.6 -4.0 1.0 3.0 3.0 0.0 Horz AV 0.0 36.5 54.0 -17.5 EUT On Side, 6 Mbps, 5240 MHz 20985.010 30.6 -4.0 1.0 3.0 3.0 0.0 Horz AV 0.0 35.6 54.0 -18.4 EUT On Side, 6 Mbps, 5240 MHz 20985.010 30.6 -4.0 1.0 3.0 0.0 Horz AV 0.0 35.6 54.0 -18.4 EUT On Side, 6 Mbps, 5240 MHz 20985.010 30.6 -4.0 1.0 157.0 3.0 0.0 Horz AV 0.0 35.6 54.0 -18.4 EUT On Side, 6 Mbps, 5240 MHz 21086.00 44.3 -8.8 1.0 157.0 3.0 0.0 Horz AV 0.0 35.5 54.0 -18.5 5500 MHz, 6 Mbps, EUT On Side 110586.00 44.3 -8.8 1.0 157.0 3.0 0.0 Horz AV 0.0 35.5 54.0 -18.5 5500 MHz, 6 Mbps, EUT On Side 10999.20 64.5 -9.4 1.2 326.0 3.0 0.0 Horz PK 0.0 55.1 74.0 -18.9 5500 MHz, 6 Mbps, EUT On Side 12092798.60 37.7 -3.0 1.0 308.0 3.0 0.0 Horz AV 0.0 34.7 54.0 -19.3 EUT On Side, 6 Mbps, 5100 MHz 20720.130 38.6 -4.0 1.0 0.0 3.0 0.0 Horz AV 0.0 34.6 54.0 -19.4 EUT Horizontal, 6 Mbps, 5100 MHz 21088.030 38.5 -4.0 1.0 1.0 4.0 3.0 0.0 Horz AV 0.0 34.5 54.0 -19.5 EUT On Side, 6 Mbps, 5300 MHz 21088.030 38.5 -4.0 1.0 270.0 3.0 0.0 Horz AV 0.0 34.5 54.0 -19.5 EUT On Side, 6 Mbps, 5300 MHz 21088.030 38.5 -4.0 1.0 270.0 3.0 0.0 Horz AV 0.0 34.5 54.0 -19.5 EUT On Side, 6 Mbps, 5300 MHz 21088.030 38.5 -4.0 1.0 270.0 3.0 0.0 Horz AV 0.0 34.5 54.0 -19.5 EUT On Side, 6 Mbps, 5300 MHz 220728.00 38.5 -4.0 1.0 270.0 3.0 0.0 Horz AV 0.0 34.5 54.0 -19.5 EUT On Side, 6 Mbps, 5300 MHz 220738.00 38.5 -4.0 1.0 270.0 3.0 0.0 Horz AV 0.0 34.5 54.0 -19.5 EUT On Side, 6 Mbps, 5300 MHz 220738.00 38.5 -4.0 1.0 270.0 3.0 0.0 Horz AV 0.0 34.5 54.0 -19.5 EUT On Side, 6 Mbps, 5300 MHz 220738.00 38.5 -4.0 1.0 36.0 3.0 0.0 Horz AV 0.0 34.5 54.0 -19.5 EUT On Side, 6 Mbps, 5300 MHz 220738.00 38.0 -4.0 4.0 3.0 0.0 Horz AV 0.0 33.9 54.0 -2.0 EUT Horizontal, 6 Mbps, 5000 MHz 220738.00 38.0 -4.0 4.0 3.0 0.0 Horz AV 0.0 33.7 54.0 -2.0 EUT Horizontal, 6 Mbps, 5000 MHz 220738.00 37.7 -4.0 1.0 316.0 3.0 0.0 Horz AV 0.0 33.7 54.0 -2.0 EUT Horizontal, 6 Mbps, 5000 MHz 220738.00 37.7 -4.0 1.0 316.0 3.0 0.0 Horz AV 0.	(111112)	(, , ,	(,	, , , ,	(***3****)	,,	(,			V /	(, , ,	(, , , ,	(,	Comments
2178.170	15722.530	48.2	10.2	1.0	2.0	3.0	0.0	Vert	PK	0.0	58.4	74.0	-15.6	5240MHz, 6 Mbps, EUT on Side
2098.010 39.6	11001.130	47.5	-9.4	1.0	355.0	3.0	0.0	Horz	AV	0.0	38.1	54.0	-15.9	5500 MHz, 6 Mbps, EUT Horizontal
10838,000 46,8 -11,2 1.0 358,0 3.0 0.0 Horz AV 0.0 35,6 54,0 -18,4 5320 MHz,6 Mbps, EUT On Side 11988,807 64,7 -9,4 1.2 115,0 3.0 0.0 Horz PK 0.0 55,3 74,0 -18,5 5560 MHz,6 Mbps, EUT On Side 10999,200 64,5 -9,4 1.3 226,0 3.0 0.0 Horz PK 0.0 55,3 74,0 -18,7 5560 MHz,6 Mbps, EUT On Side 10999,200 64,5 -9,4 1.3 226,0 3.0 0.0 Horz PK 0.0 55,3 74,0 -18,9 5560 MHz,6 Mbps, EUT On Side 10999,200 64,5 -9,4 1.3 226,0 0.0 0.0 Horz AV 0.0 34,7 54,0 -19,3 EUT On Side, 6 Mbps, 5700 MHz 21999,070 38,2 -3,7 1.0 104,0 3.0 0.0 Horz AV 0.0 34,5 54,0 -19,5 EUT On Side, 6 Mbps, 5260 MHz 22799,900 37,4 -3,0 1.0 86,0 3.0 0.0 Horz AV 0.0 34,5 54,0 -19,5 EUT On Side, 6 Mbps, 5260 MHz 22799,900 37,4 -3,0 1.0 86,0 3.0 0.0 Vert AV 0.0 34,5 54,0 -19,5 EUT On Side, 6 Mbps, 5260 MHz 22799,900 37,4 -3,0 1.0 86,0 3.0 0.0 Vert AV 0.0 34,4 54,0 -19,6 EUT Horizontal, 6 Mbps, 5700 MHz 2279,900 37,4 -3,0 1.0 86,0 3.0 0.0 Vert AV 0.0 34,4 54,0 -19,6 EUT Horizontal, 6 Mbps, 5700 MHz 2279,900 37,4 -3,0 1.0 0.0 3.0 0.0 Vert AV 0.0 34,4 54,0 -19,6 EUT Horizontal, 6 Mbps, 5700 MHz 20718,460 38,0 -4,0 1.0 0.0 3.0 0.0 Vert AV 0.0 33,9 54,0 -20,0 EUT On Side, 6 Mbps, 5260 MHz 2038,460 37,7 -4,0 1.0 37,0 3.0 0.0 Vert AV 0.0 33,9 54,0 -20,1 EUT Horizontal, 6 Mbps, 5260 MHz 2038,460 37,7 -4,0 1.0 31,0 31,0 0.0 Vert AV 0.0 33,9 54,0 -20,1 EUT Horizontal, 6 Mbps, 5260 MHz 2038,460 37,7 -4,0 1.0 31,0 30,0 0.0 Vert AV 0.0 33,2 54,0 -20,1 EUT Horizontal, 6 Mbps, 5260 MHz 2038,460 37,7 -4,0 -2,0 30,0 0.0 Vert AV 0.0 33,2 54,0 -20,1 EUT Horizontal, 6 Mbps, 5260 MHz 2038,460 37,7 -7,9 1.0 31,0 30,0 0.0 Vert AV	21278.170	40.7	-4.2	1.0	227.0	3.0	0.0	Horz	AV	0.0	36.5	54.0	-17.5	EUT On Side, 6 Mbps, 5320 MHz
11158.800	20958.010	39.6	-4.0	1.0	3.0	3.0	0.0	Horz	AV	0.0	35.6	54.0	-18.4	EUT On Side, 6 Mbps, 5240 MHz
10999.370 64.7 9.4 1.2 115.0 3.0 0.0 Horz PK 0.0 55.1 74.0 -18.7 5500 MHz, 6 Mbps, EUT On Side 10999.200 64.5 -9.4 1.3 226.0 3.0 0.0 Horz AV 0.0 34.7 54.0 -19.3 EUT On Side, 6 Mbps, EUT ON Side 22798.660 37.7 -3.0 1.0 308.0 3.0 0.0 Horz AV 0.0 34.6 54.0 -19.4 EUT Horizontal, 6 Mbps, EUT ON Side, 6 Mbps, EUT Horizontal, 6 Mbps, EUT	10639.000	46.8	-11.2	1.0	358.0	3.0	0.0	Horz	AV	0.0	35.6	54.0	-18.4	5320 MHz, 6 Mbps, EUT On Side
10999.200 64.5 -9.4 1.3 226.0 3.0 0.0 Horz PK 0.0 55.1 74.0 -18.9 5500 MHz, 6 Mbps, EUT Vertical 22798.06 77.7 -3.0 1.0 308.0 3.0 0.0 Vert AV 0.0 34.7 54.0 -19.4 EUT Horizontal, 6 Mbps, 5700 MHz 20790.130 38.6 -4.0 1.0 0.0 3.0 0.0 Vert AV 0.0 34.5 54.0 -19.5 EUT On Side, 6 Mbps, 5700 MHz 21998.070 38.2 -3.7 1.0 104.0 3.0 0.0 Horz AV 0.0 34.5 54.0 -19.5 EUT On Side, 6 Mbps, 5500 MHz 22799.900 37.4 -3.0 1.0 86.0 3.0 0.0 Vert AV 0.0 34.5 54.0 -19.5 EUT On Side, 6 Mbps, 5700 MHz 22799.900 37.4 -3.0 1.0 86.0 3.0 0.0 Vert AV 0.0 34.3 54.0 -19.5 EUT On Side, 6 Mbps, 5700 MHz 22799.900 37.4 -3.0 1.0 86.0 3.0 0.0 Vert AV 0.0 34.3 54.0 -19.5 EUT On Side, 6 Mbps, 5700 MHz 22799.900 37.4 -3.0 1.0 0.0 3.0 0.0 Vert AV 0.0 34.3 54.0 -19.6 EUT Horizontal, 6 Mbps, 5700 MHz 20718.460 38.0 -4.0 1.0 0.0 3.0 0.0 Vert AV 0.0 34.3 54.0 -20.1 EUT Horizontal, 6 Mbps, 5700 MHz 2278.980 37.9 -4.0 1.0 97.0 3.0 0.0 Vert AV 0.0 33.9 54.0 -20.1 EUT Horizontal, 6 Mbps, 5260 MHz 22318.490 3.3 3.0 0.0 Vert AV 0.0 33.9 54.0 -20.1 EUT Horizontal, 6 Mbps, 5260 MHz 22318.490 3.3 3.0 0.0 Vert AV 0.0 33.9 54.0 -20.1 EUT Horizontal, 6 Mbps, 5260 MHz 22318.490 3.0 0.0 Vert AV 0.0 33.7 54.0 -20.1 EUT Horizontal, 6 Mbps, 5260 MHz 22318.490 3.0 0.0 Vert AV 0.0 33.7 54.0 -20.1 EUT Horizontal, 6 Mbps, 5260 MHz 22318.490 3.7 4.0 1.0 316.0 3.0 0.0 Vert AV 0.0 33.7 54.0 -20.1 EUT Horizontal, 6 Mbps, 5260 MHz 22318.490 3.7 4.0 1.0 316.0 3.0 0.0 Vert AV 0.0 33.7 54.0 -20.1 EUT Horizontal, 6 Mbps, 5260 MHz 21778.680 52.4 54.0 -20.1 EUT Horizontal, 6 Mbps, 5260 MHz 21778.680 52.4 54.0 -20.1 EUT Horizontal, 6 Mbps, 5260 MHz 21778.6	11158.800	44.3	-8.8	1.0	157.0	3.0	0.0	Horz	AV	0.0	35.5	54.0	-18.5	5580 MHz, 6 Mbps, EUT On Side
22798.660 37.7 3.0 1.0 308.0 3.0 0.0 Horz AV 0.0 34.7 54.0 -19.3 EUT On Side, 6 Mbps, 5700 MHz 27070.130 38.6 -4.0 1.0 0.0 3.0 0.0 Vert AV 0.0 34.6 54.0 -19.5 EUT On Side, 6 Mbps, 5500 MHz 2198.070 38.2 -3.7 1.0 104.0 3.0 0.0 Horz AV 0.0 34.5 54.0 -19.5 EUT On Side, 6 Mbps, 5500 MHz 21038.030 38.5 -4.0 1.0 270.0 3.0 0.0 Horz AV 0.0 34.5 54.0 -19.5 EUT On Side, 6 Mbps, 5500 MHz 21038.030 38.5 -4.0 1.0 86.0 3.0 0.0 Vert AV 0.0 34.3 54.0 -19.5 EUT On Side, 6 Mbps, 5500 MHz 10538.600 45.5 -11.2 1.2 274.0 3.0 0.0 Vert AV 0.0 34.3 54.0 -19.5 EUT On Side, 6 Mbps, 5700 MHz 10538.600 45.5 -11.2 1.2 274.0 3.0 0.0 Vert AV 0.0 34.3 54.0 -19.7 5320 MHz, 6 Mbps, EUT Horizontal 1115.930 42.7 -8.8 1.4 259.0 3.0 0.0 Vert AV 0.0 34.3 54.0 -19.7 5320 MHz, 6 Mbps, EUT Horizontal 1115.930 42.7 -8.8 1.4 259.0 3.0 0.0 Vert AV 0.0 33.9 54.0 -20.1 5580 MHz, 6 Mbps, EUT Horizontal 1115.930 37.9 -4.0 1.0 97.0 3.0 0.0 Vert AV 0.0 33.9 54.0 -20.1 EUT Horizontal 5.200 MBz, 22318.490 37.3 -3.6 1.0 226.0 3.0 0.0 Horz AV 0.0 33.7 54.0 -20.3 EUT On Side, 6 Mbps, 5580 MHz 21998.410 37.3 -3.6 1.0 226.0 3.0 0.0 Vert AV 0.0 33.7 54.0 -20.3 EUT Horizontal 6.4 Mbps, 5240 MHz 21778.080 37.5 -4.2 1.0 40.0 3.0 0.0 Vert AV 0.0 33.7 54.0 -20.3 EUT Horizontal 6.4 Mbps, 5240 MHz 21780.80 37.5 -4.2 1.0 40.0 3.0 0.0 Vert AV 0.0 33.3 54.0 -20.7 EUT Horizontal 6.4 Mbps, 5240 MHz 217998.410 36.9 -3.7 1.0 236.0 3.0 0.0 Vert AV 0.0 33.2 54.0 -20.8 EUT Horizontal 6.4 Mbps, 5200 MHz 11000.380 62.6 9.4 1.0 353.0 3.0 0.0 Vert AV 0.0 33.2 54.0 -20.8 EUT Horizontal 6.4 Mbps, 5200 MHz 11000.380 62.6 9.4 1.0 353.0 3.0 0.0 Vert AV 0.0 33.2 54.0 -20.8 EUT Horizontal 6.4 Mbps, 5500 MHz 11000.380 62.6 9.4 1.3 316.0 3.0 0.0 Vert AV 0.0 33.2 54.0 -20.8 EUT Horizontal 6.4 Mbps, 5500 MHz 11000.380 62.6 9.4 1.3 316.0 3.0 0.0 Vert PK 0.0 52.9 74.0 -20.8 EUT Horizontal 11000.280 62.8 -9.4 1.3 316.0 3.0 0.0 Vert PK 0.0 52.9 74.0 -20.8 EUT Horizontal 11000.280 62.5 -4.2 1.0 135.0 3.0 0.0 Vert PK 0.0 52.9 74.0 -20.8 EUT Horizontal 11000.280 62.5 -4.2 1.0 135.0 3.0 0.0 Vert PK 0.0 52.9	10996.370	64.7	-9.4	1.2	115.0	3.0	0.0	Horz	PK	0.0	55.3	74.0	-18.7	5500 MHz, 6 Mbps, EUT On Side
20720-130 38.6 -4.0 -1.0 -4.0 -3.0 -0.0 -4	10999.200	64.5	-9.4	1.3	226.0	3.0	0.0	Horz	PK	0.0	55.1	74.0	-18.9	5500 MHz, 6 Mbps, EUT Vertical
21988.070 38.2 3.7 1.0 104.0 3.0 0.0 Horz AV 0.0 34.5 54.0 -19.5 EUT On Side, 6 Mbps, 5500 MHz 2799.900 37.4 3.0 1.0 86.0 3.0 0.0 Vert AV 0.0 34.5 54.0 -19.5 EUT On Side, 6 Mbps, 5500 MHz 2799.900 37.4 3.0 1.0 86.0 3.0 0.0 Vert AV 0.0 34.4 54.0 -19.6 EUT Horizontal, 6 Mbps, 5700 MHz 10638.600 45.5 -11.2 1.2 274.0 3.0 0.0 Vert AV 0.0 34.4 54.0 -19.6 EUT Horizontal, 6 Mbps, 5700 MHz 20718.460 38.0 -4.0 1.0 0.0 3.0 0.0 Horz AV 0.0 34.0 54.0 -20.0 EUT On Side, 6 Mbps, 5700 MHz 11158.930 42.7 8.8 1.4 259.0 3.0 0.0 Vert AV 0.0 33.9 54.0 -20.1 EUT On Side, 6 Mbps, 5260 MHz 21038.150 37.9 -4.0 1.0 97.0 3.0 0.0 Vert AV 0.0 33.9 54.0 -20.1 EUT Horizontal Mbps, 5260 MHz 22318.490 37.3 -3.6 1.0 226.0 3.0 0.0 Horz AV 0.0 33.7 54.0 -20.3 EUT On Side, 6 Mbps, 5260 MHz 2178.080 37.5 -4.2 1.0 316.0 3.0 0.0 Vert AV 0.0 33.7 54.0 -20.3 EUT Horizontal, 6 Mbps, 5260 MHz 2178.080 37.5 -4.2 1.0 40.0 3.0 0.0 Vert AV 0.0 33.7 54.0 -20.3 EUT Horizontal, 6 Mbps, 5260 MHz 2178.080 37.5 -4.2 1.0 40.0 3.0 0.0 Vert AV 0.0 33.3 54.0 -20.3 EUT Horizontal, 6 Mbps, 5260 MHz 21798.840 36.9 -3.7 1.0 236.0 3.0 0.0 Vert AV 0.0 33.3 54.0 -20.3 EUT Horizontal, 6 Mbps, 5260 MHz 21798.080 37.5 -4.2 1.0 40.0 3.0 0.0 Vert AV 0.0 33.3 54.0 -20.3 EUT Horizontal, 6 Mbps, 5260 MHz 21798.080 37.5 -4.2 1.0 40.0 3.0 0.0 Vert AV 0.0 33.3 54.0 -20.7 EUT Horizontal, 6 Mbps, 5260 MHz 11000.380 62.6 9.4 1.0 353.0 3.0 0.0 Vert AV 0.0 33.2 54.0 -20.8 EUT Horizontal, 6 Mbps, 5260 MHz 11000.380 62.6 9.4 1.0 353.0 3.0 0.0 Vert AV 0.0 33.2 54.0 -20.8 EUT Horizontal, 6 Mbps, 5260 MHz 11000.280 62.8 9.4 1.3 35.0 3.0 0.0 Vert AV 0.0 52.9 74.0 -20.8 EUT Horizontal, 6 Mbps, 5260 MHz 11000.280 62.8 9.4 1.3 316.0 3.0 0.0 Vert PK 0.0 53.2 74.0 -21.0 5500 MHz, 6 Mbps, 5260 MHz 11999.130 37.7 7.7 9 1.0 155.0 3.0 0.0 Vert PK 0.0 52.4 74.0 -21.1 5500 MHz, 6 Mbps, EUT Horizontal 11999.130 37.7 7.7 9 1.0 155.0 3.0 0.0 Horz PK 0.0 48.3 74.0 -21.0 5500 MHz, 8 Mbps, EUT Horizontal 11999.130 37.7 7.9 1.0 155.0 3.0 0.0 Horz PK 0.0 48.3 74.0 -22.5 5500 MHz, 8 Mbps, EUT Horizontal 21278.680 52	22798.660	37.7	-3.0	1.0	308.0	3.0	0.0	Horz	AV	0.0	34.7	54.0	-19.3	EUT On Side, 6 Mbps, 5700 MHz
22798.030 38.5 -4.0 1.0 270.0 3.0 0.0 Horz AV 0.0 34.5 54.0 -19.5 EUT On Side, 6 Mbps, 5260 MHz 22799.00 37.4 -3.0 1.0 86.0 3.0 0.0 Vert AV 0.0 34.4 54.0 -19.6 EUT horizontal, 6 Mbps, 5700 MHz 10638.600 45.5 -11.2 1.2 274.0 3.0 0.0 Vert AV 0.0 34.3 54.0 -19.7 5320 MHz, 6 Mbps, 5700 MHz 20718.460 38.0 -4.0 1.0 0.0 3.0 0.0 Horz AV 0.0 34.0 54.0 -20.0 EUT On Side, 6 Mbps, 5180 MHz 1158.930 42.7 -8.8 1.4 258.0 3.0 0.0 Vert AV 0.0 33.9 54.0 -20.1 EUT horizontal, 6 Mbps, 5260 MHz 2138.150 37.9 -4.0 1.0 97.0 3.0 0.0 Vert AV 0.0 33.9 54.0 -20.1 EUT horizontal, 6 Mbps, 5260 MHz 22318.450 37.9 -4.0 1.0 97.0 3.0 0.0 Vert AV 0.0 33.9 54.0 -20.1 EUT horizontal, 6 Mbps, 5260 MHz 2258.0 37.7 -4.0 1.0 316.0 3.0 0.0 Vert AV 0.0 33.7 54.0 -20.3 EUT horizontal, 6 Mbps, 5260 MHz 22578.80 37.5 -4.2 1.0 40.0 3.0 0.0 Vert AV 0.0 33.7 54.0 -20.3 EUT horizontal, 6 Mbps, 5240 MHz 21798.8410 36.9 -3.7 1.0 236.0 3.0 0.0 Vert AV 0.0 33.7 54.0 -20.3 EUT horizontal, 6 Mbps, 5240 MHz 21798.8410 36.9 -3.7 1.0 236.0 3.0 0.0 Vert AV 0.0 33.2 54.0 -20.8 EUT horizontal, 6 Mbps, 5500 MHz 21998.410 36.9 -3.7 1.0 236.0 3.0 0.0 Vert AV 0.0 33.2 54.0 -20.8 EUT horizontal, 6 Mbps, 5500 MHz 21998.410 36.9 -3.7 1.0 236.0 3.0 0.0 Vert AV 0.0 33.2 54.0 -20.8 EUT horizontal, 6 Mbps, 5500 MHz 21998.410 36.9 -3.7 1.0 236.0 3.0 0.0 Vert AV 0.0 33.2 54.0 -20.8 EUT horizontal, 6 Mbps, 5500 MHz 11000.380 62.6 -9.4 1.0 353.0 3.0 0.0 Vert AV 0.0 33.2 54.0 -20.8 EUT horizontal, 6 Mbps, 5500 MHz 11000.380 62.6 -9.4 1.0 353.0 3.0 0.0 Vert AV 0.0 33.2 54.0 -20.8 EUT horizontal, 6 Mbps, 5500 MHz 11000.380 62.6 -9.4 1.1 3 36.0 3.0 0.0 Vert AV 0.0 33.2 54.0 -20.8 EUT horizontal, 6 Mbps, 5500 MHz 11000.380 62.6 -9.4 1.1 3 36.0 3.0 0.0 Vert AV 0.0 52.9 74.0 -20.8 EUT horizontal, 6 Mbps, 5500 MHz 11000.380 62.6 -9.4 1.1 3 36.0 3.0 0.0 Vert AV 0.0 52.9 74.0 -20.8 EUT horizontal, 6 Mbps, 5500 MHz 11000.380 62.6 -9.4 1.1 3 36.0 3.0 0.0 Vert AV 0.0 52.9 74.0 -20.8 EUT horizontal, 6 Mbps, 5500 MHz 11000.380 62.6 -9.4 1.0 356.0 3.0 0.0 Vert PK 0.0 52.9 74.0 -20.1 5500 MHz, 6 Mbps,	20720.130	38.6	-4.0	1.0	0.0	3.0	0.0	Vert	AV	0.0	34.6	54.0	-19.4	
22799.900 37.4 -3.0 1.0 86.0 3.0 0.0 Vert AV 0.0 34.4 54.0 -19.6 EUT Horizontal, 6 Mbps, 5700 MHz 20718.460 38.0 -4.0 1.0 0.0 3.0 0.0 Vert AV 0.0 34.3 54.0 -19.7 5200 MHz, 6 Mbps, EUT Horizontal 20718.460 38.0 -4.0 1.0 0.0 3.0 0.0 Vert AV 0.0 33.9 54.0 -20.0 EUT On Side, 6 Mbps, EUT Horizontal 21038.150 37.9 -4.0 1.0 97.0 3.0 0.0 Vert AV 0.0 33.9 54.0 -20.1 EUT Horizontal, 6 Mbps, EUT Horizontal 22318.490 37.3 -3.6 1.0 226.0 3.0 0.0 Vert AV 0.0 33.7 54.0 -20.3 EUT On Side, 6 Mbps, 5200 MHz 22318.890 37.7 -4.0 1.0 316.0 3.0 0.0 Vert AV 0.0 33.7 54.0 -20.3 EUT On Side, 6 Mbps, 5200 MHz 2178.080 37.5 -4.2 1.0 40.0 3.0 0.0 Vert AV 0.0 33.3 54.0 -20.3 EUT Horizontal, 6 Mbps, 5200 MHz 21798.410 36.9 -3.7 1.0 236.0 3.0 0.0 Vert AV 0.0 33.3 54.0 -20.7 EUT Horizontal, 6 Mbps, 5320 MHz 2198.410 36.9 -3.7 1.0 236.0 3.0 0.0 Vert AV 0.0 33.3 54.0 -20.7 EUT Horizontal, 6 Mbps, 5320 MHz 11000.380 62.6 -9.4 1.0 353.0 3.0 0.0 Vert AV 0.0 33.2 54.0 -20.8 EUT Horizontal, 6 Mbps, 5320 MHz 11000.380 62.6 -9.4 1.0 353.0 3.0 0.0 Vert AV 0.0 33.2 54.0 -20.8 EUT Horizontal, 6 Mbps, 5320 MHz 11000.380 62.6 -9.4 1.1 353.0 3.0 0.0 Vert PK 0.0 53.2 74.0 -20.8 EUT Horizontal, 6 Mbps, 5320 MHz 11000.280 62.4 -9.4 1.4 222.0 3.0 0.0 Vert PK 0.0 53.2 74.0 -20.8 EUT Horizontal 11000.280 62.4 -9.4 1.1 3.8 6.0 3.0 0.0 Vert PK 0.0 52.2 74.0 -20.8 EUT Horizontal 11399.130 37.7 -7.9 1.0 155.0 3.0 0.0 Vert PK 0.0 52.4 74.0 -21.6 5500 MHz, 6 Mbps, EUT Horizontal 11399.130 37.7 -7.9 1.0 155.0 3.0 0.0 Vert PK 0.0 48.3 74.0 -22.5 EUT On Side, 6 Mbps, EUT Horizontal 1299.800 57.5 -4.2 1.0 358.0 3.0 0.	21998.070	38.2	-3.7	1.0	104.0	3.0	0.0	Horz	AV	0.0	34.5	54.0	-19.5	EUT On Side, 6 Mbps, 5500 MHz
1068,800 45.5		38.5	-4.0	1.0			0.0	Horz			34.5	54.0	-19.5	EUT On Side, 6 Mbps, 5260 MHz
20718.480 38.0 4.0 1.0 0.0 3.0 0.0 Horz AV 0.0 34.0 54.0 -20.0 EUT On Side, 6 Mbps, 5180 MHz 21038.150 37.9 -4.0 1.0 97.0 3.0 0.0 Vert AV 0.0 33.9 54.0 -20.1 EUT Horizontal 21038.150 37.9 -4.0 1.0 97.0 3.0 0.0 Vert AV 0.0 33.9 54.0 -20.1 EUT Horizontal, 6 Mbps, 5260 MHz 22318.490 37.3 -3.6 1.0 226.0 3.0 0.0 Horz AV 0.0 33.7 54.0 -20.3 EUT Horizontal, 6 Mbps, 5260 MHz 21278.080 37.5 -4.2 1.0 40.0 3.0 0.0 Vert AV 0.0 33.7 54.0 -20.3 EUT Horizontal, 6 Mbps, 5240 MHz 21278.080 37.5 -4.2 1.0 40.0 3.0 0.0 Vert AV 0.0 33.3 54.0 -20.7 EUT Horizontal, 6 Mbps, 5240 MHz 21278.080 37.5 -4.2 1.0 40.0 3.0 0.0 Vert AV 0.0 33.2 54.0 -20.7 EUT Horizontal, 6 Mbps, 5200 MHz 40.0 4	22799.900													EUT Horizontal, 6 Mbps, 5700 MHz
11158,930														
22318.150 37.9	20718.460	38.0	-4.0	1.0	0.0	3.0	0.0	Horz	AV	0.0	34.0	54.0	-20.0	EUT On Side, 6 Mbps, 5180 MHz
22318.490 37.3 -3.6 1.0 226.0 3.0 0.0 Horz AV 0.0 33.7 54.0 -20.3 EUT On Side, 6 Mbps, 5580 MHz 20958.290 37.7 -4.0 1.0 316.0 3.0 0.0 Vert AV 0.0 33.7 54.0 -20.3 EUT Horizontal, 6 Mbps, 5240 MHz 21278.080 37.5 -4.2 1.0 40.0 3.0 0.0 Vert AV 0.0 33.3 54.0 -20.7 EUT Horizontal, 6 Mbps, 5320 MHz 21998.410 36.9 -3.7 1.0 236.0 3.0 0.0 Vert AV 0.0 33.3 54.0 -20.8 EUT Horizontal, 6 Mbps, 5320 MHz 21998.410 36.9 -3.7 1.0 236.0 3.0 0.0 Vert AV 0.0 33.2 54.0 -20.8 EUT Horizontal, 6 Mbps, 5500 MHz 11000.350 62.6 -9.4 1.0 353.0 3.0 0.0 Horz PK 0.0 53.2 74.0 -20.8 EUT Horizontal, 6 Mbps, 5580 MHz 10996.730 62.4 -9.4 1.4 222.0 3.0 0.0 Vert AV 0.0 33.2 54.0 -20.8 EUT Horizontal, 6 Mbps, 5580 MHz 11000.670 62.3 -9.4 1.3 8.0 3.0 0.0 Vert PK 0.0 53.0 74.0 -21.0 5500 MHz, 6 Mbps, EUT Horizontal 11000.670 62.3 -9.4 1.3 8.0 3.0 0.0 Vert PK 0.0 53.0 74.0 -21.1 5500 MHz, 6 Mbps, EUT Horizontal 11000.280 61.8 -9.4 1.3 316.0 3.0 0.0 Vert PK 0.0 52.9 74.0 -21.1 5500 MHz, 6 Mbps, EUT Horizontal 11399.130 37.7 -7.9 1.0 155.0 3.0 0.0 Vert PK 0.0 52.4 74.0 -21.6 5500 MHz, 18 Mbps, EUT Horizontal 11399.130 37.7 -7.9 1.3 124.0 3.0 0.0 Vert AV 0.0 29.8 54.0 -22.5 5700 MHz, 6 Mbps, EUT Horizontal 21278.680 52.5 -4.2 1.0 227.0 3.0 0.0 Horz PK 0.0 48.3 74.0 -25.0 5700 MHz, 6 Mbps, EUT Horizontal 20959.080 51.8 -4.0 1.0 35.0 3.0 0.0 Horz PK 0.0 48.3 74.0 -25.0 5700 MHz, 6 Mbps, EUT Onizontal 20959.080 51.8 -4.0 1.0 356.0 3.0 0.0 Horz PK 0.0 48.3 74.0 -25.5 EUT On Side, 6 Mbps, 5240 MHz 1162.310 55.3 -8.8 1.0 157.0 3.0 0.0 Horz PK 0.0 46.5 74.0 -27.0 520 MHz, 6 Mbps, EUT Onizontal 21098.800 49.7 -4.0 1.0 358.0 3.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 5500 MHz, 6 Mbps, EUT On Side 11999.590 50.1 -4.0 1.0 3.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 5500 MHz, 6 Mbps, EUT On Side 11999.590 50.1 -4.0 1.0 0.0 3.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 5500 MHz, 6 Mbps, EUT On Side 11999.590 50.1 -4.0 1.0 0.0 3.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 5500 MHz, 6 Mbps, EUT On Side 21999.590 50.1 -4.0 1.0 4.0 1.0 0.0 3.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 5500 MHz, 6 Mbps, 5200 MHz 1166	11158.930	42.7	-8.8	1.4	259.0	3.0	0.0	Vert	AV	0.0	33.9	54.0	-20.1	5580 MHz, 6 Mbps, EUT Horizontal
20958.290 37.7 -4.0 1.0 316.0 3.0 0.0 Vert AV 0.0 33.7 54.0 -20.3 EUT Horizontal, 6 Mbps, 5240 MHz 21278.080 37.5 -4.2 1.0 40.0 3.0 0.0 Vert AV 0.0 33.3 54.0 -20.7 EUT Horizontal, 6 Mbps, 5240 MHz 21988.410 36.9 -3.7 1.0 236.0 3.0 0.0 Vert AV 0.0 33.2 54.0 -20.8 EUT Horizontal, 6 Mbps, 5200 MHz 11000.380 62.6 -9.4 1.0 353.0 3.0 0.0 Horz PK 0.0 53.2 74.0 -20.8 EUT Horizontal, 6 Mbps, 5500 MHz 12098.530 MHz 22318.530 36.8 -3.6 1.0 163.0 3.0 0.0 Vert AV 0.0 33.2 54.0 -20.8 EUT Horizontal, 6 Mbps, 5580 MHz 10996.730 62.4 -9.4 1.4 222.0 3.0 0.0 Vert PK 0.0 53.0 74.0 -21.0 5500 MHz, 6 Mbps, 5580 MHz 11000.670 62.3 -9.4 1.3 8.0 3.0 0.0 Vert PK 0.0 53.0 74.0 -21.0 5500 MHz, 6 Mbps, EUT Horizontal 11000.280 61.8 -9.4 1.3 316.0 3.0 0.0 Vert PK 0.0 52.9 74.0 -21.1 5500 MHz, 6 Mbps, EUT Horizontal 11399.130 37.7 -7.9 1.0 155.0 3.0 0.0 Vert PK 0.0 52.4 74.0 -21.6 5500 MHz, 6 Mbps, EUT Horizontal 11399.870 36.9 -7.9 1.3 124.0 3.0 0.0 Vert PK 0.0 29.8 54.0 -24.2 5700 MHz, 6 Mbps, EUT Horizontal 11399.870 36.9 -7.9 1.3 124.0 3.0 0.0 Vert AV 0.0 29.8 54.0 -24.2 5700 MHz, 6 Mbps, EUT Horizontal 11399.130 57.5 -9.4 1.0 355.0 3.0 0.0 Horz PK 0.0 48.1 74.0 -25.9 5500 MHz, 6 Mbps, EUT Horizontal 120959.080 51.8 -4.0 1.0 355.0 3.0 0.0 Horz PK 0.0 48.1 74.0 -25.9 5500 MHz, 6 Mbps, EUT Horizontal 20959.080 51.8 -4.0 1.0 3.0 3.0 0.0 Horz PK 0.0 47.8 74.0 -25.9 5500 MHz, 6 Mbps, EUT Horizontal 20959.080 51.8 -4.0 1.0 3.0 3.0 0.0 Horz PK 0.0 47.8 74.0 -25.9 5500 MHz, 6 Mbps, EUT Horizontal 20959.080 51.8 -4.0 1.0 358.0 3.0 0.0 Horz PK 0.0 47.8 74.0 -25.9 5500 MHz, 6 Mbps, 5240 MHz 1162.310 55.3 -8.8 1.0 157.0 3.0 0.0 Horz PK 0.0 47.8 74.0 -27.0 EUT Horizontal, 6 Mbps, 5240 MHz 1162.310 55.3 -8.8 1.0 157.0 3.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 5580 Mbz, 6 Mbps, 5240 MHz 12299.530 50.1 -3.7 1.0 104.0 3.0 0.0 Horz PK 0.0 46.6 74.0 -27.5 5580 Mbz, 6 Mbps, 5240 MHz 22799.100 48.6 -3.0 1.0 386.0 3.0 0.0 Horz PK 0.0 45.6 74.0 -28.4 EUT Horizontal, 6 Mbps, 5240 MHz 22799.100 48.6 -3.0 1.0 386.0 3.0 0.0 Horz PK 0.0 45.6 74.0 -28.4 EUT Horizontal, 6	21038.150	37.9	-4.0	1.0	97.0		0.0	Vert	AV	0.0		54.0	-20.1	EUT Horizontal, 6 Mbps, 5260 MHz
21278.080 37.5 -4.2 1.0 40.0 3.0 0.0 Vert AV 0.0 33.3 54.0 -20.7 EUT Horizontal, 6 Mpps, 5320 MHz 11000.380 62.6 -9.4 1.0 353.0 3.0 0.0 Vert AV 0.0 33.2 54.0 -20.8 EUT Horizontal, 6 Mpps, 5500 MHz 12000.380 62.6 -9.4 1.0 353.0 3.0 0.0 Vert AV 0.0 33.2 54.0 -20.8 EUT Horizontal, 6 Mpps, 5500 MHz 13000.380 62.6 -9.4 1.0 353.0 3.0 0.0 Vert AV 0.0 33.2 54.0 -20.8 EUT Horizontal, 6 Mpps, 5580 MHz 22318.530 36.8 -3.6 1.0 163.0 3.0 0.0 Vert AV 0.0 33.2 54.0 -20.8 EUT Horizontal, 6 Mpps, 5580 MHz 13096.730 62.4 -9.4 1.4 222.0 3.0 0.0 Vert PK 0.0 53.0 74.0 -21.0 5500 MHz, 6 Mpps, EUT Horizontal 11000.670 62.3 -9.4 1.3 8.0 3.0 0.0 Vert PK 0.0 52.9 74.0 -21.1 5500 MHz, 6 Mpps, EUT Horizontal 11000.280 61.8 -9.4 1.3 316.0 3.0 0.0 Vert PK 0.0 52.4 74.0 -21.6 5500 MHz, 6 Mpps, EUT Horizontal 11309.30 37.7 -7.9 1.0 155.0 3.0 0.0 Vert PK 0.0 52.4 74.0 -21.6 5500 MHz, 6 Mpps, EUT Horizontal 11399.870 36.9 -7.9 1.3 124.0 3.0 0.0 Vert AV 0.0 29.8 54.0 -22.4 5700 MHz, 6 Mpps, EUT Horizontal 21278.680 52.5 -4.2 1.0 227.0 3.0 0.0 Horz PK 0.0 48.3 74.0 -25.0 5700 MHz, 6 Mpps, 5320 MHz 13099.930 57.5 -9.4 1.0 355.0 3.0 0.0 Horz PK 0.0 48.3 74.0 -25.7 EUT On Side, 6 Mpps, 5320 MHz 20959.080 51.8 -4.0 1.0 350.3 3.0 0.0 Horz PK 0.0 48.3 74.0 -25.7 EUT On Side, 6 Mpps, 5240 MHz 20959.080 51.8 -4.0 1.0 350.3 3.0 0.0 Horz PK 0.0 47.0 74.0 -27.0 EUT Horizontal 20959.080 51.0 -4.0 1.0 358.0 3.0 0.0 Horz PK 0.0 47.0 74.0 -27.0 EUT Horizontal 21091.930 57.5 -9.4 1.0 358.0 3.0 0.0 Horz PK 0.0 47.0 74.0 -27.0 EUT Horizontal 20959.080 51.8 -4.0 1.0 3.0 3.0 0.0 Horz PK 0.0 47.0 74.0 -27.0 EUT Horizontal 20959.080 51.8 -4.0 1.0 350.0 3.0 0.0 Horz PK 0.0 47.0 74.0 -27.0 EUT Horizontal 20959.080 51.8 -4.0 1.0 350.0 3.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 EUT On Side, 6 Mpps, 5500 MHz 1162.310 55.3 -8.8 1.0 157.0 3.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 EUT On Side, 6 Mpps, 5500 MHz 1162.310 55.3 -8.8 1.0 157.0 3.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 EUT On Side, 6 Mpps, 5500 MHz 12099.0 50.0 EUT On Side 2070.0 48.6 -3.0 1.0 380.0 3.0 0.0 Horz PK 0.0 46.5 74.0 -27.	22318.490	37.3	-3.6	1.0	226.0	3.0	0.0	Horz	AV	0.0	33.7	54.0	-20.3	EUT On Side, 6 Mbps, 5580 MHz
21998.410 36.9 -3.7 1.0 236.0 3.0 0.0 Vert AV 0.0 33.2 54.0 -20.8 EUT Horizontal, 6 Mbps, 5500 MHz 1100.380 62.6 -9.4 1.0 353.0 3.0 0.0 Horz PK 0.0 53.2 74.0 -20.8 5500 MHz, 18 Mbps, EUT On Side 22318.530 36.8 -3.6 1.0 163.0 3.0 0.0 Vert AV 0.0 33.2 54.0 -20.8 EUT Horizontal, 6 Mbps, 5580 MHz 10996.730 62.4 -9.4 1.4 222.0 3.0 0.0 Vert PK 0.0 53.0 74.0 -21.0 5500 MHz, 6 Mbps, EUT On Side 11000.670 62.3 -9.4 1.3 8.0 3.0 0.0 Vert PK 0.0 52.9 74.0 -21.1 5500 MHz, 6 Mbps, EUT Vertical 11000.680 61.8 -9.4 1.3 316.0 3.0 0.0 Vert PK 0.0 52.9 74.0 -21.1 5500 MHz, 6 Mbps, EUT Vertical 11399.130 37.7 -7.9 1.0 155.0 3.0 0.0 Vert PK 0.0 52.9 74.0 -21.6 5500 MHz, 6 Mbps, EUT On Side 11399.870 36.9 -7.9 1.3 124.0 3.0 0.0 Vert AV 0.0 29.8 54.0 -24.2 5700 MHz, 6 Mbps, EUT On Side 11278.680 52.5 -4.2 1.0 227.0 3.0 0.0 Horz AV 0.0 29.0 54.0 -25.0 5700 MHz, 6 Mbps, EUT Horizontal 20959.080 51.8 -4.0 1.0 355.0 3.0 0.0 Horz PK 0.0 48.1 74.0 -25.7 EUT On Side, 6 Mbps, EUT Horizontal 20959.080 51.8 -4.0 1.0 358.0 3.0 0.0 Horz PK 0.0 47.8 74.0 -26.2 EUT On Side, 6 Mbps, 5240 MHz 1162.310 55.3 -8.8 1.0 157.0 3.0 0.0 Horz PK 0.0 46.5 74.0 -27.0 5320 MHz, 6 Mbps, EUT On Side 21999.530 50.1 -3.7 1.0 104.0 3.0 0.0 Horz PK 0.0 46.5 74.0 -27.0 EUT Horizontal, 6 Mbps, 5240 MHz 1162.310 55.3 -8.8 1.0 157.0 3.0 0.0 Horz PK 0.0 46.5 74.0 -27.0 EUT Horizontal, 6 Mbps, 5240 MHz 1162.310 55.3 -8.8 1.0 157.0 3.0 0.0 Horz PK 0.0 46.5 74.0 -27.0 EUT Horizontal, 6 Mbps, EUT On Side 21999.530 50.1 -3.7 1.0 104.0 3.0 0.0 Horz PK 0.0 46.5 74.0 -27.6 EUT On Side, 6 Mbps, 5240 MHz 10639.400 57.5 -11.2 1.2 274.0 3.0 0.0 Horz PK 0.0 46.5 74.0 -27.5 5580 MHz, 6 Mbps, EUT On Side 22800.070 48.6 -3.0 1.0 36.0 3.0 0.0 Horz PK 0.0 45.6 74.0 -27.6 EUT On Side, 6 Mbps, 5240 MHz 10639.400 57.5 -11.2 1.2 274.0 3.0 0.0 Horz PK 0.0 45.6 74.0 -27.6 EUT On Side, 6 Mbps, 5260 MHz 22890.070 48.6 -3.0 1.0 36.0 3.0 0.0 Horz PK 0.0 45.6 74.0 -27.6 EUT On Side, 6 Mbps, 5260 MHz 22890.070 48.6 -3.0 1.0 36.0 3.0 0.0 Horz PK 0.0 45.6 74.0 -29.4 EUT Horizontal 22959.100 48.6 -3.0 1.	20958.290	37.7	-4.0	1.0	316.0	3.0	0.0	Vert	AV	0.0	33.7	54.0	-20.3	EUT Horizontal, 6 Mbps, 5240 MHz
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10639.400 57.5 -11.2 1.2 274.0 3.0 0.0 Vert PK 0.0 46.3 74.0 -27.7 5320 MHz, 6 Mbps, EUT Horizontal 21039.880 49.7 -4.0 1.0 270.0 3.0 0.0 Horz PK 0.0 45.7 74.0 -28.3 EUT On Side, 6 Mbps, 5260 MHz 22800.070 48.6 -3.0 1.0 86.0 3.0 0.0 Vert PK 0.0 45.6 74.0 -28.4 EUT Horizontal, 6 Mbps, 5700 MHz 22799.100 48.0 -3.0 1.0 308.0 3.0 0.0 Horz PK 0.0 45.0 74.0 -29.0 EUT On Side, 6 Mbps, 5700 MHz 11165.070 53.7 -8.8 1.4 259.0 3.0 0.0 Vert PK 0.0 44.9 74.0 -29.1 5580 MHz, 6 Mbps, EUT Horizontal 20959.160 48.6 -4.0 1.0 316.0 3.0 0.0 Vert PK 0.0 44.6 74.0 -29.4 EUT Horizontal, 6 Mbps, 5240 MHz														
21039.880 49.7 -4.0 1.0 270.0 3.0 0.0 Horz PK 0.0 45.7 74.0 -28.3 EUT On Side, 6 Mpps, 5260 MHz 22800.070 48.6 -3.0 1.0 86.0 3.0 0.0 Vert PK 0.0 45.6 74.0 -28.4 EUT Horizontal, 6 Mpps, 5700 MHz 22799.100 48.0 -3.0 1.0 308.0 3.0 0.0 Horz PK 0.0 45.0 74.0 -29.0 EUT On Side, 6 Mpps, 5700 MHz 11165.070 53.7 -8.8 1.4 259.0 3.0 0.0 Vert PK 0.0 44.9 74.0 -29.1 5580 MHz, 6 Mpps, EUT Horizontal 20959.160 48.6 -4.0 1.0 316.0 3.0 0.0 Vert PK 0.0 44.6 74.0 -29.4 EUT Horizontal, 6 Mpps, 5240 MHz														
22800.070 48.6 -3.0 1.0 86.0 3.0 0.0 Vert PK 0.0 45.6 74.0 -28.4 EUT Horizontal, 6 Mbps, 5700 MHz 22799.100 48.0 -3.0 1.0 308.0 3.0 0.0 Horz PK 0.0 45.0 74.0 -29.0 EUT On Side, 6 Mbps, 5700 MHz 11165.070 53.7 -8.8 1.4 259.0 3.0 0.0 Vert PK 0.0 44.9 74.0 -29.1 5580 MHz, 6 Mbps, EUT Horizontal 20959.160 48.6 -4.0 1.0 316.0 3.0 0.0 Vert PK 0.0 44.6 74.0 -29.4 EUT Horizontal, 6 Mbps, 5240 MHz														
22799.100 48.0 -3.0 1.0 308.0 3.0 0.0 Horz PK 0.0 45.0 74.0 -29.0 EUT On Side, 6 Mbps, 5700 MHz 11165.070 53.7 -8.8 1.4 259.0 3.0 0.0 Vert PK 0.0 44.9 74.0 -29.1 5580 MHz, 6 Mbps, EUT Horizontal 20959.160 48.6 -4.0 1.0 316.0 3.0 0.0 Vert PK 0.0 44.6 74.0 -29.4 EUT Horizontal, 6 Mbps, 5240 MHz														
11165.070 53.7 -8.8 1.4 259.0 3.0 0.0 Vert PK 0.0 44.9 74.0 -29.1 5580 MHz, 6 Mbps, EUT Horizontal 20959.160 48.6 -4.0 1.0 316.0 3.0 0.0 Vert PK 0.0 44.6 74.0 -29.4 EUT Horizontal, 6 Mbps, 5240 MHz														
20959.160 48.6 -4.0 1.0 316.0 3.0 0.0 Vert PK 0.0 44.6 74.0 -29.4 EUT Horizontal, 6 Mbps, 5240 MHz														
20719.380 48.6 -4.0 1.0 0.0 3.0 0.0 Horz PK 0.0 44.6 74.0 -29.4 EUT On Side, 6 Mbps, 5180 MHz														
21041.970 48.6 -4.0 1.0 97.0 3.0 0.0 Vert PK 0.0 44.6 74.0 -29.4 EUT Horizontal, 6 Mbps, 5260 MHz														
22319.000 48.1 -3.6 1.0 226.0 3.0 0.0 Horz PK 0.0 44.5 74.0 -29.5 EUT On Side, 6 Mbps, 5580 MHz														
21279.050 48.6 -4.2 1.0 40.0 3.0 0.0 Vert PK 0.0 44.4 74.0 -29.6 EUT Horizontal, 6 Mbps, 5320 MHz														
22319.870 47.7 -3.6 1.0 163.0 3.0 0.0 Vert PK 0.0 44.1 74.0 -29.9 EUT Horizontal, 6 Mbps, 5580 MHz														
21999.510 47.6 -3.7 1.0 236.0 3.0 0.0 Vert PK 0.0 43.9 74.0 -30.1 EUT Horizontal, 6 Mbps, 5500 MHz														
10999.130 52.6 -9.4 1.1 213.0 3.0 0.0 Vert PK 0.0 43.2 74.0 -30.8 5500 MHz, 6 Mbps, EUT on side														
11400.530 48.1 -7.9 1.0 155.0 3.0 0.0 Horz PK 0.0 40.2 74.0 -33.8 5700 MHz, 6 Mbps, EUT On Side														
11404.400 47.1 -7.9 1.3 124.0 3.0 0.0 Vert PK 0.0 39.2 74.0 -34.8 5700 MHz, 6 Mbps, EUT Horizontal	11404.400	47.1	-7.9	1.3	124.0	3.0	0.0	vert	PK	0.0	39.2	74.0	-34.8	5700 MIDZ, 6 MIDPS, EUT HORIZONTAL

QP

■ PK ◆ AV



Spurious Radiated Emissions

Work Order:	FOCU0141									
Project:	None Temperature: 22.2 °C									
Job Site:	EV01 Humidity: 30.9% RH									
Serial Number:	202EA4C0001C4 Barometric Pres.: 1025.9 mbar Tested by: C Ghizzone, D Haas, B Hobbs									
EUT:	Model 444-2224 (Athena 4X)									
Configuration:	1									
Customer:	Summit Semiconductor									
Attendees:										
EUT Power:										
Operating Mode:	Transmitting 802.11a, 50% Duty Cycle									
Deviations:	None									
Comments:	See comment below for frequency, data rate, and EUT orientation.									

Test Specifications

FCC 15.407:2013

Test Method ANSI C63.10:2009

Test Distance (m) 3 Antenna Height(s) Pass Run# 80 1-4m Results 0 -10 -20 -30 dBm -40 -50 -60 -70 -80 100 1000 10000 100000 MHz

Freq (MHz)	Antenna Height (meters)	Azimuth (degrees)	Polarity/ Transducer Type	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
17090.330	1.1	228.0	Horz	PK	7.72E-08	-41.1	-27.0	-14.1	5700MHz, 6 Mbps, EUT on Side
10361.070	1.2	152.0	Horz	PK	6.10E-08	-42.2	-27.0	-15.2	5180 MHz, 6 Mbps, EUT On Side
17101.920	1.4	18.0	Vert	PK	4.30E-08	-43.7	-27.0	-16.7	5700MHz, 6 Mbps, EUT Horizontal
10480.600	1.0	226.0	Horz	PK	4.21E-08	-43.8	-27.0	-16.8	5240 MHz, 6 Mbps, EUT On Side
10520.730	1.4	136.0	Vert	PK	3.44E-08	-44.6	-27.0	-17.6	5260 MHz, 6 Mbps, EUT Horizontal
16500.460	1.2	265.0	Horz	PK	2.74E-08	-45.6	-27.0	-18.6	5500MHz, 6 Mbps, EUT on Side
16740.310	1.4	234.0	Horz	PK	2.37E-08	-46.3	-27.0	-19.3	5580MHz, 6 Mbps, EUT on Side
16496.200	1.0	10.0	Vert	PK	2.22E-08	-46.5	-27.0	-19.5	5500MHz, 18 Mbps, EUT Horizontal
10520.270	1.0	347.0	Horz	PK	1.85E-08	-47.3	-27.0	-20.3	5260 MHz, 6 Mbps, EUT On Side
16504.950	1.2	265.0	Horz	PK	1.77E-08	-47.5	-27.0	-20.5	5500MHz, 18 Mbps, EUT on Side
16739.040	1.2	237.0	Vert	PK	1.60E-08	-48.0	-27.0	-21.0	5580MHz, 6 Mbps, EUT Horizontal
16490.450	1.0	10.0	Vert	PK	1.54E-08	-48.1	-27.0	-21.1	5500MHz, 6 Mbps, EUT Horizontal
10480.530	1.6	22.0	Vert	PK	1.36E-08	-48.7	-27.0	-21.7	5240 MHz, 6 Mbps, EUT Horizontal
10365.330	1.0	23.0	Vert	PK	1.33E-08	-48.7	-27.0	-21.7	5180 MHz, 6 Mbps, EUT Horizontal



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

MODES OF OPERATION

Transmitting 802.11a, 50% Duty Cycle, Ch. 29, 5700 MHz
Transmitting 802.11a, 50% Duty Cycle, Ch. 23, 5580 MHz
Transmitting 802.11a, 50% Duty Cycle, Ch. 19, 5500 MHz
Transmitting 802.11a, 50% Duty Cycle, Ch. 18, 5320 MHz
Transmitting 802.11a, 50% Duty Cycle, Ch. 15, 5260 MHz
Transmitting 802.11a, 50% Duty Cycle, Ch. 14, 5240 MHz
Transmitting 802.11a, 50% Duty Cycle, Ch. 8, 5180 MHz

POWER SETTINGS INVESTIGATED

3.3 VDC Nominal

CONFIGURATIONS INVESTIGATED

FOCU0140 - 7

SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
DC Power Supply	Topward	TPS-2000	TPD	NCR	0 mo
LISN	Solar	9252-50-R-24-BNC	LIN	3/11/2013	12 mo
Receiver	Rohde & Schwarz	ESCI	ARH	1/24/2013	12 mo
High Pass Filter	TTE	H97-100K-50-720B	HHD	2/1/2012	24 mo
Attenuator	Coaxicom	66702 2910-20	RBR	4/25/2013	12 mo
EV07 Cables	N/A	Conducted Cables	EVG	4/25/2013	12 mo

MEASUREMENT BANDWIDTHS

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

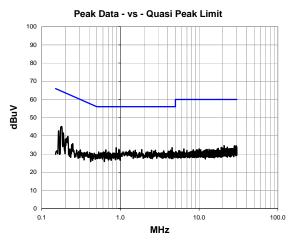
Measurements were made using the bandwidths and detectors specified. No video filter was used.

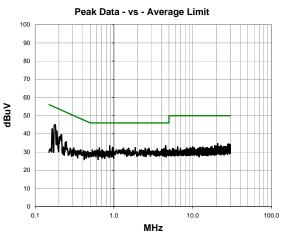
TEST DESCRIPTION

The EUT will be powered either directly or indirectly from the AC power line. Therefore, conducted emissions measurements were made on the AC input of the EUT, or on the AC input of the device used to power the EUT. The AC power line conducted emissions were measured with the EUT operating at the lowest, the highest, and a middle channel in the operational band. The EUT was transmitting at its maximum data rate. For each mode, the spectrum was scanned from 150 kHz to 30 MHz. The test setup and procedures were in accordance with ANSI C63.10-2009.



Work Ord	er: FOCU0140	Date:	05/16/13					
Proje	ct: None	Temperature:	23.7 °C	1 to the				
Job S	te: EV07	Humidity:	40.3% RH					
Serial Numb	er: 02EA4D000003	Barometric Pres.:	1014 mbar	Tested by: Brandon Hobbs				
E	JT: Model 444-2225 (Ath	ena UFL)						
Configurati	on: 7							
Custom	er: Summit Semiconduct	or						
Attende	es: None							
EUT Pow	er: 3.3 VDC Nominal	3.3 VDC Nominal						
Operating Mo	de: Transmitting 802.11a	Transmitting 802.11a, 50% Duty Cycle, Ch. 8, 5180 MHz						
Deviatio	ns: None	None						
Commer	Power Supply plugged into 110VAC/60Hz							
Test Specificatio	ns		Test Meth	od				
FCC 15.407:2013			ANSI C63	10:2009				
Run # 3	Line:	Neutral	Ext. Attenuation:	20 Results Pass				





Peak	Data	- VS -	Quasi	Peak	I imit

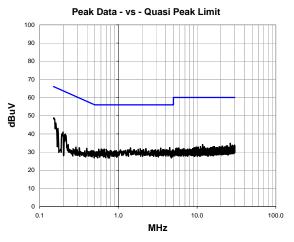
		Data 10	Quadi i dai		
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.179	24.8	20.3	45.1	64.5	-19.4
0.189	21.3	20.3	41.6	64.1	-22.5
4.528	12.8	20.7	33.5	56.0	-22.5
0.164	22.4	20.3	42.7	65.3	-22.5
0.883	13.1	20.3	33.4	56.0	-22.6
0.961	12.3	20.3	32.6	56.0	-23.4
0.215	19.3	20.3	39.6	63.0	-23.4
1.864	12.0	20.4	32.4	56.0	-23.6
0.653	12.0	20.3	32.3	56.0	-23.7
1.544	11.7	20.4	32.1	56.0	-23.9
2.784	11.6	20.5	32.1	56.0	-23.9
1.320	11.7	20.4	32.1	56.0	-23.9
2.488	11.6	20.5	32.1	56.0	-23.9
4.344	11.4	20.7	32.1	56.0	-23.9
0.981	11.4	20.3	31.7	56.0	-24.3
3.552	11.1	20.6	31.7	56.0	-24.3
1.464	11.2	20.4	31.6	56.0	-24.4
4.048	10.9	20.6	31.5	56.0	-24.5
4.232	10.8	20.7	31.5	56.0	-24.5
3.528	10.7	20.6	31.3	56.0	-24.7

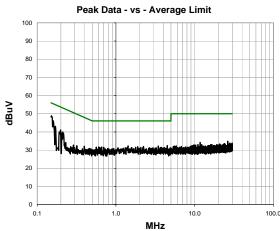
Peak Data - vs - Average Limit

	Feak Data - VS - Average Littlit					
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)	
0.179	24.8	20.3	45.1	54.5	-9.4	
0.189	21.3	20.3	41.6	54.1	-12.5	
4.528	12.8	20.7	33.5	46.0	-12.5	
0.164	22.4	20.3	42.7	55.3	-12.5	
0.883	13.1	20.3	33.4	46.0	-12.6	
0.961	12.3	20.3	32.6	46.0	-13.4	
0.215	19.3	20.3	39.6	53.0	-13.4	
1.864	12.0	20.4	32.4	46.0	-13.6	
0.653	12.0	20.3	32.3	46.0	-13.7	
1.544	11.7	20.4	32.1	46.0	-13.9	
2.784	11.6	20.5	32.1	46.0	-13.9	
1.320	11.7	20.4	32.1	46.0	-13.9	
2.488	11.6	20.5	32.1	46.0	-13.9	
4.344	11.4	20.7	32.1	46.0	-13.9	
0.981	11.4	20.3	31.7	46.0	-14.3	
3.552	11.1	20.6	31.7	46.0	-14.3	
1.464	11.2	20.4	31.6	46.0	-14.4	
4.048	10.9	20.6	31.5	46.0	-14.5	
4.232	10.8	20.7	31.5	46.0	-14.5	
3.528	10.7	20.6	31.3	46.0	-14.7	



Work (Order:	FOCU0140	Date:	05/16/13		7 /		
Pi	roject:	None	Temperature:	23.7 °C		1.1		
	b Site:	EV07	Humidity:	40.3% RH				
Serial Nu	ımber:	02EA4D000003	Barometric Pres.:	1014 mbar		Tested by: Brandon Hobbs		
	EUT:	Model 444-2225 (Athe	ena UFL)					
Configur	ration:	7						
Cust	tomer:	Summit Semiconducto	or					
Atter	ndees:	: None						
EUT F	Power:	3.3 VDC Nominal						
Operating	Mode:	Transmitting 802.11a, 50% Duty Cycle, Ch. 8, 5180 MHz						
Devia	ations:	None						
Comr	Comments: Power Supply plugged into 110VAC/60Hz							
Test Specifica	ations			Test M	ethod			
FCC 15.407:20				ANSI C	63.10:2009	-		
Run #	4	Line:	High Line	Ext. Attenuation	on: 20	Results Pass		





Peak Data - vs - Quasi Peak Limit

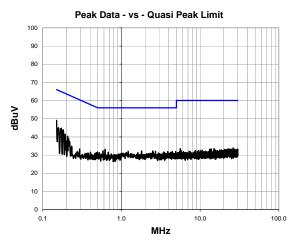
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.152	28.4	20.4	48.8	65.9	-17.1
0.160	25.7	20.3	46.0	65.5	-19.4
0.170	22.7	20.3	43.0	64.9	-21.9
0.198	20.7	20.3	41.0	63.7	-22.7
0.211	19.6	20.3	39.9	63.2	-23.2
4.488	11.8	20.7	32.5	56.0	-23.5
1.424	11.9	20.4	32.3	56.0	-23.7
0.208	19.2	20.3	39.5	63.3	-23.8
3.456	11.6	20.6	32.2	56.0	-23.8
2.240	11.5	20.5	32.0	56.0	-24.0
1.888	11.4	20.4	31.8	56.0	-24.2
0.660	11.4	20.3	31.7	56.0	-24.3
0.606	11.4	20.3	31.7	56.0	-24.3
0.563	11.3	20.3	31.6	56.0	-24.4
0.701	11.2	20.3	31.5	56.0	-24.5
2.080	11.0	20.4	31.4	56.0	-24.6
3.800	10.8	20.6	31.4	56.0	-24.6
3.680	10.8	20.6	31.4	56.0	-24.6
0.621	11.1	20.3	31.4	56.0	-24.6
2.960	10.8	20.5	31.3	56.0	-24.7

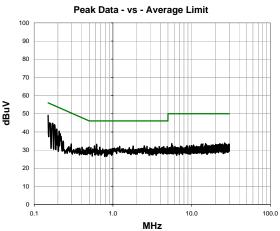
Peak	Data -	vs -	Average	I imit

	Peak Data - vs - Average Limit					
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)	
0.152	28.4	20.4	48.8	55.9	-7.1	
0.160	25.7	20.3	46.0	55.5	-9.4	
0.170	22.7	20.3	43.0	54.9	-11.9	
0.198	20.7	20.3	41.0	53.7	-12.7	
0.211	19.6	20.3	39.9	53.2	-13.2	
4.488	11.8	20.7	32.5	46.0	-13.5	
1.424	11.9	20.4	32.3	46.0	-13.7	
0.208	19.2	20.3	39.5	53.3	-13.8	
3.456	11.6	20.6	32.2	46.0	-13.8	
2.240	11.5	20.5	32.0	46.0	-14.0	
1.888	11.4	20.4	31.8	46.0	-14.2	
0.660	11.4	20.3	31.7	46.0	-14.3	
0.606	11.4	20.3	31.7	46.0	-14.3	
0.563	11.3	20.3	31.6	46.0	-14.4	
0.701	11.2	20.3	31.5	46.0	-14.5	
2.080	11.0	20.4	31.4	46.0	-14.6	
3.800	10.8	20.6	31.4	46.0	-14.6	
3.680	10.8	20.6	31.4	46.0	-14.6	
0.621	11.1	20.3	31.4	46.0	-14.6	
2.960	10.8	20.5	31.3	46.0	-14.7	



Work Or	ler: FOCU0140	Date:	05/16/13					
Proj	ect: None	Temperature:	23.7 °C	1 to I and				
Job S	ite: EV07	Humidity:	40.3% RH					
Serial Num	oer: 02EA4D000003	Barometric Pres.:	1014 mbar	Tested by: Brandon Hobbs				
E	UT: Model 444-2225 (Ath	ena UFL)						
Configurat	on: 7							
Custon	er: Summit Semiconduct	tor						
Attende	es: None							
EUT Pov	ver: 3.3 VDC Nominal	3.3 VDC Nominal						
Operating Mo	de: Transmitting 802.11a	Transmitting 802.11a, 50% Duty Cycle, Ch. 14, 5240 MHz						
Deviation	ns: None	None						
Comme	Power Supply plugged into 110VAC/60Hz							
Test Specification	ns		Test Meth	od				
FCC 15.407:2013			ANSI C63.	10:2009				
Run # 5	Line:	High Line	Ext. Attenuation:	20 Results Pass				





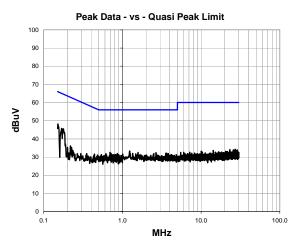
Peak	Data	- vs -	Quasi	Peak	Limit

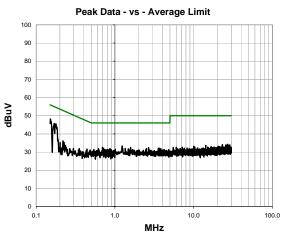
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	28.7	20.4	49.1	66.0	-16.9
0.172	24.5	20.3	44.8	64.9	-20.0
0.182	23.6	20.3	43.9	64.4	-20.5
0.159	24.7	20.4	45.1	65.5	-20.5
0.193	21.2	20.3	41.5	63.9	-22.4
0.619	12.9	20.3	33.2	56.0	-22.8
0.208	20.1	20.3	40.4	63.3	-22.9
0.584	12.0	20.3	32.3	56.0	-23.7
2.504	11.8	20.5	32.3	56.0	-23.7
1.800	11.8	20.4	32.2	56.0	-23.8
2.704	11.6	20.5	32.1	56.0	-23.9
1.216	11.7	20.4	32.1	56.0	-23.9
0.213	18.8	20.3	39.1	63.1	-24.0
4.880	11.3	20.7	32.0	56.0	-24.0
4.424	11.3	20.7	32.0	56.0	-24.0
3.864	11.3	20.6	31.9	56.0	-24.1
0.497	11.4	20.3	31.7	56.1	-24.4
3.496	11.0	20.6	31.6	56.0	-24.4
0.682	11.3	20.3	31.6	56.0	-24.4
3.432	11.0	20.6	31.6	56.0	-24.4

Peak Data - vs - Average Limit						
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)	
0.150	28.7	20.4	49.1	56.0	-6.9	
0.172	24.5	20.3	44.8	54.9	-10.0	
0.182	23.6	20.3	43.9	54.4	-10.5	
0.159	24.7	20.4	45.1	55.5	-10.5	
0.193	21.2	20.3	41.5	53.9	-12.4	
0.619	12.9	20.3	33.2	46.0	-12.8	
0.208	20.1	20.3	40.4	53.3	-12.9	
0.584	12.0	20.3	32.3	46.0	-13.7	
2.504	11.8	20.5	32.3	46.0	-13.7	
1.800	11.8	20.4	32.2	46.0	-13.8	
2.704	11.6	20.5	32.1	46.0	-13.9	
1.216	11.7	20.4	32.1	46.0	-13.9	
0.213	18.8	20.3	39.1	53.1	-14.0	
4.880	11.3	20.7	32.0	46.0	-14.0	
4.424	11.3	20.7	32.0	46.0	-14.0	
3.864	11.3	20.6	31.9	46.0	-14.1	
0.497	11.4	20.3	31.7	46.1	-14.4	
3.496	11.0	20.6	31.6	46.0	-14.4	
0.682	11.3	20.3	31.6	46.0	-14.4	
3.432	11.0	20.6	31.6	46.0	-14.4	



Work Orde	r: FOCU0140	Date:	05/16/13					
Projec	t: None	Temperature:	23.7 °C	1111				
Job Sit	e: EV07	Humidity:	40.3% RH					
Serial Number	r: 02EA4D000003	Barometric Pres.:	1014 mbar	Tested by: Brandon Hobbs				
EUT: Model 444-2225 (Athena UFL)								
Configuratio	Configuration: 7							
Custome	ustomer: Summit Semiconductor							
Attendee	s: None							
EUT Powe	r: 3.3 VDC Nominal							
Operating Mod	e: Transmitting 802.11a, 50% Duty Cycle, Ch. 14, 5240 MHz							
Deviation	s: None	None						
Comment	Power Supply plugge	d into 110VAC/60Hz						
Test Specification	s		Test Meth	hod				
FCC 15.407:2013			ANSI C63	3.10:2009				
			1					
Run # 6	Line:	Neutral	Ext. Attenuation:	20 Results Pass				





Peak	Data	- VS -	Quasi	Peak	I imit

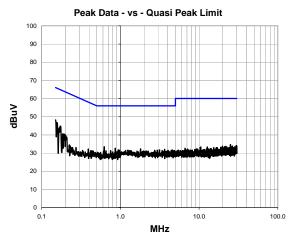
	i can	Data V3	Quasi i cai		
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.152	27.8	20.4	48.2	65.9	-17.7
0.177	25.2	20.3	45.5	64.6	-19.1
0.169	25.4	20.3	45.7	65.0	-19.3
1.232	13.0	20.4	33.4	56.0	-22.6
1.584	12.2	20.4	32.6	56.0	-23.4
0.697	12.3	20.3	32.6	56.0	-23.4
2.672	12.0	20.5	32.5	56.0	-23.5
3.568	11.5	20.6	32.1	56.0	-23.9
0.713	11.8	20.3	32.1	56.0	-23.9
1.352	11.7	20.4	32.1	56.0	-23.9
2.512	11.5	20.5	32.0	56.0	-24.0
3.840	11.3	20.6	31.9	56.0	-24.1
0.864	11.6	20.3	31.9	56.0	-24.1
0.618	11.6	20.3	31.9	56.0	-24.1
1.480	11.4	20.4	31.8	56.0	-24.2
1.008	11.3	20.3	31.6	56.0	-24.4
0.730	11.3	20.3	31.6	56.0	-24.4
0.543	11.2	20.3	31.5	56.0	-24.5
0.804	11.1	20.3	31.4	56.0	-24.6
4.208	10.7	20.7	31.4	56.0	-24.6

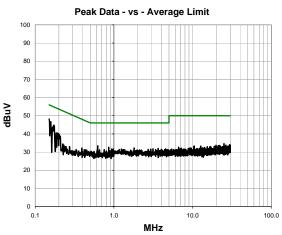
Peak	Data -	· VS -	Average	I imit

Feak Data - VS - Average Limit					
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.152	27.8	20.4	48.2	55.9	-7.7
0.177	25.2	20.3	45.5	54.6	-9.1
0.169	25.4	20.3	45.7	55.0	-9.3
1.232	13.0	20.4	33.4	46.0	-12.6
1.584	12.2	20.4	32.6	46.0	-13.4
0.697	12.3	20.3	32.6	46.0	-13.4
2.672	12.0	20.5	32.5	46.0	-13.5
3.568	11.5	20.6	32.1	46.0	-13.9
0.713	11.8	20.3	32.1	46.0	-13.9
1.352	11.7	20.4	32.1	46.0	-13.9
2.512	11.5	20.5	32.0	46.0	-14.0
3.840	11.3	20.6	31.9	46.0	-14.1
0.864	11.6	20.3	31.9	46.0	-14.1
0.618	11.6	20.3	31.9	46.0	-14.1
1.480	11.4	20.4	31.8	46.0	-14.2
1.008	11.3	20.3	31.6	46.0	-14.4
0.730	11.3	20.3	31.6	46.0	-14.4
0.543	11.2	20.3	31.5	46.0	-14.5
0.804	11.1	20.3	31.4	46.0	-14.6
4.208	10.7	20.7	31.4	46.0	-14.6



Work Order:	FOCU0140	Date:	05/16/13					
Project	None	Temperature:	23.7 °C	1 to 1				
Job Site	EV07	Humidity:	40.3% RH					
Serial Number	02EA4D000003	Barometric Pres.:	1014 mbar	Tested by: Brandon Hobbs				
EUT	EUT: Model 444-2225 (Athena UFL)							
Configuration	Configuration: 7							
Customer	Summit Semiconductor							
Attendees	attendees: None							
EUT Power	3.3 VDC Nominal							
Operating Mode	Transmitting 802.11a, 50% Duty Cycle, Ch. 15, 5260 MHz							
Deviations	None							
Comments	Power Supply plugged	d into 110VAC/60Hz						
Test Specifications			Test Meth	od				
FCC 15.407:2013			ANSI C63	.10:2009				
Run # 7	Line:	Neutral	Ext. Attenuation:	20 Results Pass				





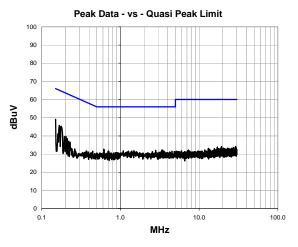
	i can	Data V3	Quasi i cai	` =	
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	27.8	20.4	48.2	66.0	-17.8
0.157	26.4	20.4	46.8	65.6	-18.9
0.172	24.5	20.3	44.8	64.9	-20.0
0.624	13.2	20.3	33.5	56.0	-22.5
0.862	12.3	20.3	32.6	56.0	-23.4
0.193	20.2	20.3	40.5	63.9	-23.4
0.198	19.8	20.3	40.1	63.7	-23.6
0.186	20.3	20.3	40.6	64.2	-23.6
1.800	11.9	20.4	32.3	56.0	-23.7
0.201	19.4	20.3	39.7	63.6	-23.8
3.632	11.4	20.6	32.0	56.0	-24.0
3.144	11.3	20.5	31.8	56.0	-24.2
4.544	11.1	20.7	31.8	56.0	-24.2
0.942	11.4	20.3	31.7	56.0	-24.3
1.248	11.3	20.4	31.7	56.0	-24.3
0.980	11.3	20.3	31.6	56.0	-24.4
2.928	11.1	20.5	31.6	56.0	-24.4
4.040	10.9	20.6	31.5	56.0	-24.5
2.720	11.0	20.5	31.5	56.0	-24.5
4.744	10.7	20.7	31.4	56.0	-24.6

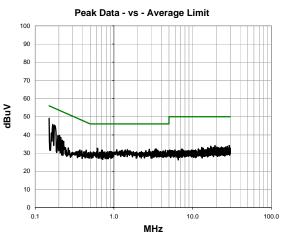
Peak Data - vs - Average Limit

Peak Data - vs - Average Limit					
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	27.8	20.4	48.2	56.0	-7.8
0.157	26.4	20.4	46.8	55.6	-8.9
0.172	24.5	20.3	44.8	54.9	-10.0
0.624	13.2	20.3	33.5	46.0	-12.5
0.862	12.3	20.3	32.6	46.0	-13.4
0.193	20.2	20.3	40.5	53.9	-13.4
0.198	19.8	20.3	40.1	53.7	-13.6
0.186	20.3	20.3	40.6	54.2	-13.6
1.800	11.9	20.4	32.3	46.0	-13.7
0.201	19.4	20.3	39.7	53.6	-13.8
3.632	11.4	20.6	32.0	46.0	-14.0
3.144	11.3	20.5	31.8	46.0	-14.2
4.544	11.1	20.7	31.8	46.0	-14.2
0.942	11.4	20.3	31.7	46.0	-14.3
1.248	11.3	20.4	31.7	46.0	-14.3
0.980	11.3	20.3	31.6	46.0	-14.4
2.928	11.1	20.5	31.6	46.0	-14.4
4.040	10.9	20.6	31.5	46.0	-14.5
2.720	11.0	20.5	31.5	46.0	-14.5
4.744	10.7	20.7	31.4	46.0	-14.6



Work Order:	FOCU0140	Date:	05/16/13				
Project:	None	Temperature:	23.7 °C	1 to the			
Job Site:	EV07	Humidity:	40.3% RH				
Serial Number:	02EA4D000003	Barometric Pres.:	1014 mbar	Tested by: Brandon Hobbs			
EUT:	Model 444-2225 (Athe	ena UFL)					
Configuration:	7						
Customer:	Summit Semiconduct	or					
Attendees	None						
EUT Power:	: 3.3 VDC Nominal						
Operating Mode	Transmitting 802.11a, 50% Duty Cycle, Ch. 15, 5260 MHz						
Deviations	None						
Comments	Power Supply plugge	d into 110VAC/60Hz					
Test Specifications			Test Meth	od			
FCC 15.407:2013	-		ANSI C63	.10:2009			
Run # 8	Line:	High Line	Ext. Attenuation:	20 Results Pass			





Peak	Data	- vs -	Quasi	Peak	Limit

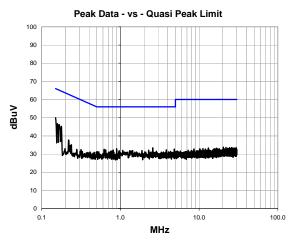
Fear Data - VS - Quasi Fear Lillin						
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)	
0.150	28.7	20.4	49.1	66.0	-16.9	
0.177	25.0	20.3	45.3	64.6	-19.3	
0.167	25.4	20.3	45.7	65.1	-19.4	
0.618	12.4	20.3	32.7	56.0	-23.3	
3.368	11.7	20.6	32.3	56.0	-23.7	
0.203	19.4	20.3	39.7	63.5	-23.8	
3.448	11.6	20.6	32.2	56.0	-23.8	
2.808	11.6	20.5	32.1	56.0	-23.9	
1.488	11.5	20.4	31.9	56.0	-24.1	
0.194	19.3	20.3	39.6	63.9	-24.2	
1.088	11.4	20.3	31.7	56.0	-24.3	
0.708	11.4	20.3	31.7	56.0	-24.3	
0.160	20.8	20.3	41.1	65.5	-24.3	
1.392	11.3	20.4	31.7	56.0	-24.3	
3.592	11.0	20.6	31.6	56.0	-24.4	
1.272	11.2	20.4	31.6	56.0	-24.4	
4.520	10.9	20.7	31.6	56.0	-24.4	
0.697	11.2	20.3	31.5	56.0	-24.5	
2.544	10.9	20.5	31.4	56.0	-24.6	
0.211	18.2	20.3	38.5	63.2	-24.6	

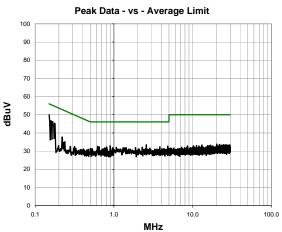
Peak Data - vs - Average Limit

Peak Data - vs - Average Limit							
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)		
0.150	28.7	20.4	49.1	56.0	-6.9		
0.177	25.0	20.3	45.3	54.6	-9.3		
0.167	25.4	20.3	45.7	55.1	-9.4		
0.618	12.4	20.3	32.7	46.0	-13.3		
3.368	11.7	20.6	32.3	46.0	-13.7		
0.203	19.4	20.3	39.7	53.5	-13.8		
3.448	11.6	20.6	32.2	46.0	-13.8		
2.808	11.6	20.5	32.1	46.0	-13.9		
1.488	11.5	20.4	31.9	46.0	-14.1		
0.194	19.3	20.3	39.6	53.9	-14.2		
1.088	11.4	20.3	31.7	46.0	-14.3		
0.708	11.4	20.3	31.7	46.0	-14.3		
0.160	20.8	20.3	41.1	55.5	-14.3		
1.392	11.3	20.4	31.7	46.0	-14.3		
3.592	11.0	20.6	31.6	46.0	-14.4		
1.272	11.2	20.4	31.6	46.0	-14.4		
4.520	10.9	20.7	31.6	46.0	-14.4		
0.697	11.2	20.3	31.5	46.0	-14.5		
2.544	10.9	20.5	31.4	46.0	-14.6		
0.211	18.2	20.3	38.5	53.2	-14.6		



Work Order:	FOCU0140	Date:	05/16/13					
Project:	None	Temperature:	23.7 °C	1 the stand				
Job Site:	EV07	Humidity:	40.3% RH					
Serial Number:	02EA4D000003	Barometric Pres.:	1014 mbar	Tested by: Brandon Hobbs				
EUT:	Model 444-2225 (Athe	ena UFL)						
Configuration:	7							
Customer:	Summit Semiconducto	or						
Attendees:	None							
EUT Power:	3.3 VDC Nominal							
Operating Mode:	Transmitting 802.11a, 50% Duty Cycle, Ch. 18, 5320 MHz							
Deviations:	None							
Comments:	Power Supply plugged	d into 110VAC/60Hz						
Test Specifications			Test Meth	nod				
FCC 15.407:2013			ANSI C63	3.10:2009				
Run # 9	Line:	High Line	Ext. Attenuation:	Results Pass				





Peak	Data	- VS -	Quasi	Peak	I imit

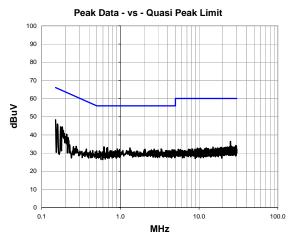
1 out Buta 10 Quadri out Emit					
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	29.6	20.4	50.0	66.0	-16.0
0.159	26.4	20.4	46.8	65.5	-18.8
0.167	25.9	20.3	46.2	65.1	-18.9
0.177	25.0	20.3	45.3	64.6	-19.3
2.584	13.0	20.5	33.5	56.0	-22.5
0.895	12.6	20.3	32.9	56.0	-23.1
4.848	12.1	20.7	32.8	56.0	-23.2
0.621	12.4	20.3	32.7	56.0	-23.3
3.848	11.7	20.6	32.3	56.0	-23.7
0.652	12.0	20.3	32.3	56.0	-23.7
0.810	11.9	20.3	32.2	56.0	-23.8
2.288	11.7	20.5	32.2	56.0	-23.8
1.072	11.7	20.3	32.0	56.0	-24.0
1.424	11.6	20.4	32.0	56.0	-24.0
1.880	11.5	20.4	31.9	56.0	-24.1
1.312	11.5	20.4	31.9	56.0	-24.1
0.966	11.5	20.3	31.8	56.0	-24.2
0.762	11.4	20.3	31.7	56.0	-24.3
0.782	11.3	20.3	31.6	56.0	-24.4
2.864	11.1	20.5	31.6	56.0	-24.4

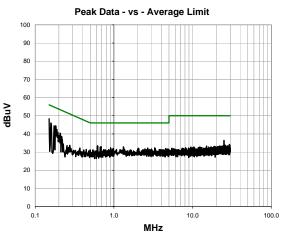
Peak Data - vs - Average Limit

Feak Data - VS - Average Littlit							
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)		
0.150	29.6	20.4	50.0	56.0	-6.0		
0.159	26.4	20.4	46.8	55.5	-8.8		
0.167	25.9	20.3	46.2	55.1	-8.9		
0.177	25.0	20.3	45.3	54.6	-9.3		
2.584	13.0	20.5	33.5	46.0	-12.5		
0.895	12.6	20.3	32.9	46.0	-13.1		
4.848	12.1	20.7	32.8	46.0	-13.2		
0.621	12.4	20.3	32.7	46.0	-13.3		
3.848	11.7	20.6	32.3	46.0	-13.7		
0.652	12.0	20.3	32.3	46.0	-13.7		
0.810	11.9	20.3	32.2	46.0	-13.8		
2.288	11.7	20.5	32.2	46.0	-13.8		
1.072	11.7	20.3	32.0	46.0	-14.0		
1.424	11.6	20.4	32.0	46.0	-14.0		
1.880	11.5	20.4	31.9	46.0	-14.1		
1.312	11.5	20.4	31.9	46.0	-14.1		
0.966	11.5	20.3	31.8	46.0	-14.2		
0.762	11.4	20.3	31.7	46.0	-14.3		
0.782	11.3	20.3	31.6	46.0	-14.4		
2.864	11.1	20.5	31.6	46.0	-14.4		



			_		I .			
Woi	rk Order:	FOCU0140	Date:	05/16/13				
	Project:	None	Temperature:	23.7 °C	11	1-1		
	Job Site:	EV07	Humidity:	40.3% RH		,		
Serial	Number:	02EA4D000003	Barometric Pres.:	1014 mbar	Tested by: Brandon Hot	bs		
	EUT:	Model 444-2225 (Athe	ena UFL)					
Config	guration:	7						
C	ustomer:	Summit Semiconducto	or					
At	tendees:	None						
EU	T Power:	3.3 VDC Nominal						
Operation	ng Mode:	Transmitting 802.11a, 50% Duty Cycle, Ch. 18, 5320 MHz						
De	viations:	None						
Со	mments:	Power Supply plugge	d into 110VAC/60Hz					
Test Specif	ications			Test Meth	od			
FCC 15.407				ANSI C63	.10:2009			
Run #	10	Line:	Neutral	Ext. Attenuation:	20 Results	Pass		





Peak	Data	- VS -	Quasi	Peak	I imit

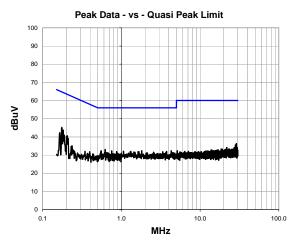
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	27.9	20.4	48.3	66.0	-17.7
0.159	25.7	20.4	46.1	65.5	-19.5
0.182	24.1	20.3	44.4	64.4	-20.0
0.174	24.1	20.3	44.4	64.8	-20.4
0.189	22.1	20.3	42.4	64.1	-21.7
0.618	13.2	20.3	33.5	56.0	-22.5
0.208	20.1	20.3	40.4	63.3	-22.9
0.686	12.7	20.3	33.0	56.0	-23.0
1.320	12.5	20.4	32.9	56.0	-23.1
0.669	12.4	20.3	32.7	56.0	-23.3
25.020	14.7	21.7	36.4	60.0	-23.6
3.296	11.8	20.5	32.3	56.0	-23.7
0.910	12.0	20.3	32.3	56.0	-23.7
2.680	11.7	20.5	32.2	56.0	-23.8
2.056	11.7	20.4	32.1	56.0	-23.9
0.978	11.7	20.3	32.0	56.0	-24.0
4.528	11.3	20.7	32.0	56.0	-24.0
2.480	11.3	20.5	31.8	56.0	-24.2
2.008	11.3	20.4	31.7	56.0	-24.3
3.008	11.2	20.5	31.7	56.0	-24.3

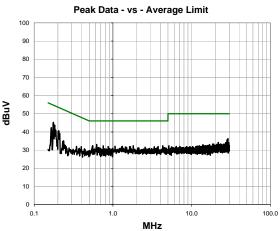
Peak	Data -	vs -	Average	I imit

	Pea	k Data - vs	 Average I 	Limit	
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	27.9	20.4	48.3	56.0	-7.7
0.159	25.7	20.4	46.1	55.5	-9.5
0.182	24.1	20.3	44.4	54.4	-10.0
0.174	24.1	20.3	44.4	54.8	-10.4
0.189	22.1	20.3	42.4	54.1	-11.7
0.618	13.2	20.3	33.5	46.0	-12.5
0.208	20.1	20.3	40.4	53.3	-12.9
0.686	12.7	20.3	33.0	46.0	-13.0
1.320	12.5	20.4	32.9	46.0	-13.1
0.669	12.4	20.3	32.7	46.0	-13.3
25.020	14.7	21.7	36.4	50.0	-13.6
3.296	11.8	20.5	32.3	46.0	-13.7
0.910	12.0	20.3	32.3	46.0	-13.7
2.680	11.7	20.5	32.2	46.0	-13.8
2.056	11.7	20.4	32.1	46.0	-13.9
0.978	11.7	20.3	32.0	46.0	-14.0
4.528	11.3	20.7	32.0	46.0	-14.0
2.480	11.3	20.5	31.8	46.0	-14.2
2.008	11.3	20.4	31.7	46.0	-14.3
3.008	11.2	20.5	31.7	46.0	-14.3



		_		
Work Order	: FOCU0140	Date:	05/16/13	
Project	: None	Temperature:	23.7 °C	1111
Job Site	EV07	Humidity:	40.3% RH	
Serial Number	: 02EA4D000003	Barometric Pres.:	1014 mbar	Tested by: Brandon Hobbs
EUT	: Model 444-2225 (Ath	ena UFL)		
Configuration	: 7			
Customer	: Summit Semiconduct	or		
Attendees	: None			
EUT Power	: 3.3 VDC Nominal			
Operating Mode	Transmitting 802.11a	, 50% Duty Cycle, Ch.	19, 5500 MHz	
Deviations	None			
Comments	Power Supply plugge	d into 110VAC/60Hz		
Test Specifications			Test Meth	nod
FCC 15.407:2013			ANSI C63	.10:2009
Run # 11	Line:	Neutral	Ext. Attenuation:	Pass Pass





Peak	Data	- vs -	Quasi	Peak	Limit

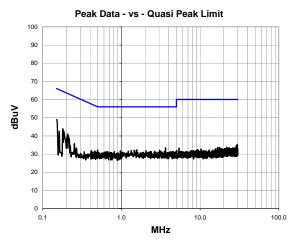
	i oun	Data 10	Quadi i dai		
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.176	24.9	20.3	45.2	64.7	-19.5
0.182	23.4	20.3	43.7	64.4	-20.7
0.204	20.3	20.3	40.6	63.4	-22.8
0.165	22.0	20.3	42.3	65.2	-22.9
0.621	12.8	20.3	33.1	56.0	-22.9
0.187	20.7	20.3	41.0	64.2	-23.1
1.816	12.0	20.4	32.4	56.0	-23.6
0.553	12.1	20.3	32.4	56.0	-23.6
4.296	11.7	20.7	32.4	56.0	-23.6
28.920	14.3	22.0	36.3	60.0	-23.7
0.753	12.0	20.3	32.3	56.0	-23.7
1.064	11.8	20.3	32.1	56.0	-23.9
1.320	11.7	20.4	32.1	56.0	-23.9
3.744	11.4	20.6	32.0	56.0	-24.0
0.211	18.8	20.3	39.1	63.2	-24.0
1.672	11.5	20.4	31.9	56.0	-24.1
3.368	11.3	20.6	31.9	56.0	-24.1
0.869	11.5	20.3	31.8	56.0	-24.2
1.448	11.3	20.4	31.7	56.0	-24.3
2.560	11.1	20.5	31.6	56.0	-24.4

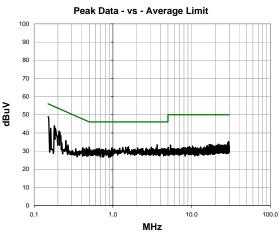
Peak	Data -	· VS -	Average	I imit

Feak Data - VS - Average Limit						
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)	
0.176	24.9	20.3	45.2	54.7	-9.5	
0.182	23.4	20.3	43.7	54.4	-10.7	
0.204	20.3	20.3	40.6	53.4	-12.8	
0.165	22.0	20.3	42.3	55.2	-12.9	
0.621	12.8	20.3	33.1	46.0	-12.9	
0.187	20.7	20.3	41.0	54.2	-13.1	
1.816	12.0	20.4	32.4	46.0	-13.6	
0.553	12.1	20.3	32.4	46.0	-13.6	
4.296	11.7	20.7	32.4	46.0	-13.6	
28.920	14.3	22.0	36.3	50.0	-13.7	
0.753	12.0	20.3	32.3	46.0	-13.7	
1.064	11.8	20.3	32.1	46.0	-13.9	
1.320	11.7	20.4	32.1	46.0	-13.9	
3.744	11.4	20.6	32.0	46.0	-14.0	
0.211	18.8	20.3	39.1	53.2	-14.0	
1.672	11.5	20.4	31.9	46.0	-14.1	
3.368	11.3	20.6	31.9	46.0	-14.1	
0.869	11.5	20.3	31.8	46.0	-14.2	
1.448	11.3	20.4	31.7	46.0	-14.3	
2.560	11.1	20.5	31.6	46.0	-14.4	



		1			
Wor	k Order:	FOCU0140	Date:	05/16/13	
	Project:	None	Temperature:	23.7 °C	1111
	Job Site:	EV07	Humidity:	40.3% RH	
Serial	Number:	02EA4D000003	Barometric Pres.:	1014 mbar	Tested by: Brandon Hobbs
	EUT:	Model 444-2225 (Athe	ena UFL)		
Config	guration:	7			
Cı	ustomer:	Summit Semiconducte	or		
Att	tendees:	None			
EU.	T Power:	3.3 VDC Nominal			
Operatin	ng Mode:	Transmitting 802.11a,	50% Duty Cycle, Ch.	19, 5500 MHz	
De	viations:	None			
Cor	mments:	Power Supply plugged	d into 110VAC/60Hz		
Test Specifi	ications			Test Meth	nod
FCC 15.407				ANSI C63	3.10:2009
Run #	12	Line:	High Line	Ext. Attenuation:	Results Pass





Peak	Data	- VS -	Quasi	Peak	I imit

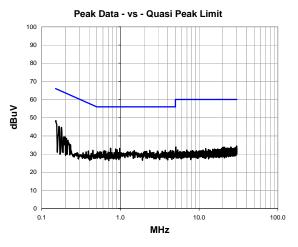
	i oan	Data 10	Quadi i dai		
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	28.5	20.4	48.9	66.0	-17.1
0.181	23.6	20.3	43.9	64.5	-20.5
0.186	22.2	20.3	42.5	64.2	-21.7
0.208	20.7	20.3	41.0	63.3	-22.3
3.632	12.8	20.6	33.4	56.0	-22.6
0.213	20.0	20.3	40.3	63.1	-22.8
0.162	22.2	20.3	42.5	65.4	-22.8
1.576	12.0	20.4	32.4	56.0	-23.6
0.499	12.0	20.3	32.3	56.0	-23.8
3.056	11.6	20.5	32.1	56.0	-23.9
1.456	11.7	20.4	32.1	56.0	-23.9
1.328	11.6	20.4	32.0	56.0	-24.0
1.544	11.5	20.4	31.9	56.0	-24.1
0.971	11.4	20.3	31.7	56.0	-24.3
2.056	11.3	20.4	31.7	56.0	-24.3
2.664	11.1	20.5	31.6	56.0	-24.4
3.528	10.9	20.6	31.5	56.0	-24.5
2.384	11.0	20.5	31.5	56.0	-24.5
3.184	10.9	20.5	31.4	56.0	-24.6
0.672	11.1	20.3	31.4	56.0	-24.6

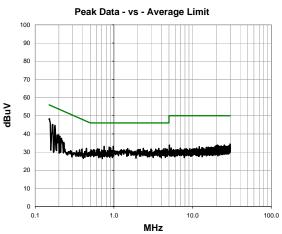
Peak	Data -	· VS -	Average	I imit

Peak Data - vs - Average Limit							
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)		
0.150	28.5	20.4	48.9	56.0	-7.1		
0.181	23.6	20.3	43.9	54.5	-10.5		
0.186	22.2	20.3	42.5	54.2	-11.7		
0.208	20.7	20.3	41.0	53.3	-12.3		
3.632	12.8	20.6	33.4	46.0	-12.6		
0.213	20.0	20.3	40.3	53.1	-12.8		
0.162	22.2	20.3	42.5	55.4	-12.8		
1.576	12.0	20.4	32.4	46.0	-13.6		
0.499	12.0	20.3	32.3	46.0	-13.8		
3.056	11.6	20.5	32.1	46.0	-13.9		
1.456	11.7	20.4	32.1	46.0	-13.9		
1.328	11.6	20.4	32.0	46.0	-14.0		
1.544	11.5	20.4	31.9	46.0	-14.1		
0.971	11.4	20.3	31.7	46.0	-14.3		
2.056	11.3	20.4	31.7	46.0	-14.3		
2.664	11.1	20.5	31.6	46.0	-14.4		
3.528	10.9	20.6	31.5	46.0	-14.5		
2.384	11.0	20.5	31.5	46.0	-14.5		
3.184	10.9	20.5	31.4	46.0	-14.6		
0.672	11.1	20.3	31.4	46.0	-14.6		



Work O	rder:	FOCU0140	Date:	05/16/	3			
Pro	oject:	None	Temperature:	23.7 °	2	/_	1. 1	
Job	Site:	EV07	Humidity:	40.3% I	₹H			
Serial Nun	nber:	02EA4D000003	Barometric Pres.:	1014 m	oar		Tested by: Brandon Hobbs	
	EUT:	Model 444-2225 (Athe	ena UFL)					
Configura	tion:	7						
Custo	mer:	Summit Semiconduct	or					
Attend	dees:	None						
EUT Po	ower:	3.3 VDC Nominal						
Operating N	lode:	Transmitting 802.11a	50% Duty Cycle, Ch.	23, 5580 MHz				
Deviat	ions:	None						
Comm		Power Supply plugge	d into 110VAC/60Hz					
Test Specificat	ions			Te	st Metho	od		
FCC 15.407:201				ΙA	ISI C63.	10:2009		
Run # 1	3	Line:	High Line	Ext. Atter	uation:	20	Results Pass	





Peak	Data	- VS -	Quasi	Peak	I imit

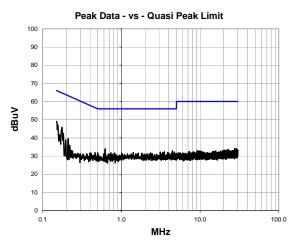
		Data 10	Quadi i dai		
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.152	28.0	20.4	48.4	65.9	-17.5
0.179	24.4	20.3	44.7	64.5	-19.8
0.165	24.8	20.3	45.1	65.2	-20.1
0.750	12.9	20.3	33.2	56.0	-22.8
0.981	12.8	20.3	33.1	56.0	-22.9
0.869	12.3	20.3	32.6	56.0	-23.4
0.906	12.0	20.3	32.3	56.0	-23.7
2.368	11.6	20.5	32.1	56.0	-23.9
3.728	11.4	20.6	32.0	56.0	-24.0
1.496	11.6	20.4	32.0	56.0	-24.0
4.328	11.3	20.7	32.0	56.0	-24.0
0.624	11.6	20.3	31.9	56.0	-24.1
4.552	11.2	20.7	31.9	56.0	-24.1
0.199	19.1	20.3	39.4	63.6	-24.2
2.960	11.2	20.5	31.7	56.0	-24.3
0.652	11.3	20.3	31.6	56.0	-24.4
4.744	10.9	20.7	31.6	56.0	-24.4
3.400	11.0	20.6	31.6	56.0	-24.4
2.152	11.1	20.4	31.5	56.0	-24.5
2.072	11.0	20.4	31.4	56.0	-24.6

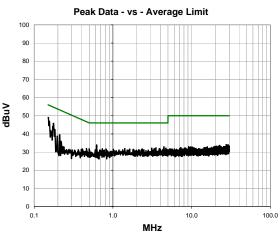
Peak	Data -	vs -	Average	I imit

Feak Data - vs - Average Littlit					
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.152	28.0	20.4	48.4	55.9	-7.5
0.179	24.4	20.3	44.7	54.5	-9.8
0.165	24.8	20.3	45.1	55.2	-10.1
0.750	12.9	20.3	33.2	46.0	-12.8
0.981	12.8	20.3	33.1	46.0	-12.9
0.869	12.3	20.3	32.6	46.0	-13.4
0.906	12.0	20.3	32.3	46.0	-13.7
2.368	11.6	20.5	32.1	46.0	-13.9
3.728	11.4	20.6	32.0	46.0	-14.0
1.496	11.6	20.4	32.0	46.0	-14.0
4.328	11.3	20.7	32.0	46.0	-14.0
0.624	11.6	20.3	31.9	46.0	-14.1
4.552	11.2	20.7	31.9	46.0	-14.1
0.199	19.1	20.3	39.4	53.6	-14.2
2.960	11.2	20.5	31.7	46.0	-14.3
0.652	11.3	20.3	31.6	46.0	-14.4
4.744	10.9	20.7	31.6	46.0	-14.4
3.400	11.0	20.6	31.6	46.0	-14.4
2.152	11.1	20.4	31.5	46.0	-14.5
2.072	11.0	20.4	31.4	46.0	-14.6



Work Order	FOCU0140	Date:	05/16/13	
Project	None	Temperature:	23.7 °C	1111
Job Site		Humidity:	40.3% RH	
Serial Number	: 02EA4D000003	Barometric Pres.:	1014 mbar	Tested by: Brandon Hobbs
EUT	: Model 444-2225 (Athe	ena UFL)		
Configuration	: 7			
Customer	Summit Semiconductor	or		
Attendees	: None			
EUT Power	: 3.3 VDC Nominal			
Operating Mode	Transmitting 802.11a,	50% Duty Cycle, Ch.	23, 5580 MHz	
Deviations	None			
Comments	Power Supply plugger	d into 110VAC/60Hz		
Test Specifications			Test Meth	hod
FCC 15.407:2013			ANSI C63	3.10:2009
Run # 14	Line:	Neutral	Ext. Attenuation	20 Results Pass





Peak	Data	- VS -	Quasi	Peak	I imit

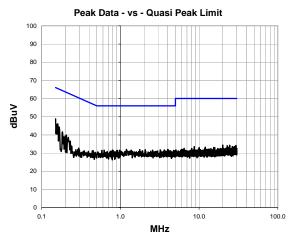
		Data 10	Quadi i dai		
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.152	28.6	20.4	49.0	65.9	-16.9
0.176	25.5	20.3	45.8	64.7	-18.9
0.182	22.2	20.3	42.5	64.4	-21.9
0.619	13.7	20.3	34.0	56.0	-22.0
4.456	12.3	20.7	33.0	56.0	-23.0
0.162	21.5	20.3	41.8	65.4	-23.5
3.520	11.8	20.6	32.4	56.0	-23.6
0.211	19.2	20.3	39.5	63.2	-23.6
3.112	11.7	20.5	32.2	56.0	-23.8
4.712	11.5	20.7	32.2	56.0	-23.8
1.416	11.6	20.4	32.0	56.0	-24.0
3.352	11.4	20.6	32.0	56.0	-24.0
3.880	11.3	20.6	31.9	56.0	-24.1
0.735	11.6	20.3	31.9	56.0	-24.1
0.500	11.5	20.3	31.8	56.0	-24.2
2.344	11.3	20.5	31.8	56.0	-24.2
0.818	11.4	20.3	31.7	56.0	-24.3
1.632	11.3	20.4	31.7	56.0	-24.3
4.360	11.0	20.7	31.7	56.0	-24.3
4.008	11.0	20.6	31.6	56.0	-24.4

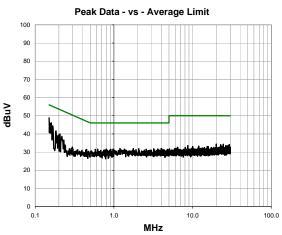
Peak Da	ata - vs	 Average 	I imit

Peak Data - vs - Average Limit					
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.152	28.6	20.4	49.0	55.9	-6.9
0.176	25.5	20.3	45.8	54.7	-8.9
0.182	22.2	20.3	42.5	54.4	-11.9
0.619	13.7	20.3	34.0	46.0	-12.0
4.456	12.3	20.7	33.0	46.0	-13.0
0.162	21.5	20.3	41.8	55.4	-13.5
3.520	11.8	20.6	32.4	46.0	-13.6
0.211	19.2	20.3	39.5	53.2	-13.6
3.112	11.7	20.5	32.2	46.0	-13.8
4.712	11.5	20.7	32.2	46.0	-13.8
1.416	11.6	20.4	32.0	46.0	-14.0
3.352	11.4	20.6	32.0	46.0	-14.0
3.880	11.3	20.6	31.9	46.0	-14.1
0.735	11.6	20.3	31.9	46.0	-14.1
0.500	11.5	20.3	31.8	46.0	-14.2
2.344	11.3	20.5	31.8	46.0	-14.2
0.818	11.4	20.3	31.7	46.0	-14.3
1.632	11.3	20.4	31.7	46.0	-14.3
4.360	11.0	20.7	31.7	46.0	-14.3
4.008	11.0	20.6	31.6	46.0	-14.4



Work Order:	FOCU0140	Date:	05/16/13	
Project:	None	Temperature:	23.7 °C	1111
Job Site:		Humidity:	40.3% RH	
Serial Number:	02EA4D000003	Barometric Pres.:	1014 mbar	Tested by: Brandon Hobbs
EUT:	Model 444-2225 (Athe	ena UFL)		
Configuration:	7			
Customer:	Summit Semiconducto	or		
Attendees:	None			
EUT Power:	3.3 VDC Nominal			
Operating Mode:	Transmitting 802.11a,	50% Duty Cycle, Ch.	29, 5700 MHz	
Deviations:	None			
Comments:	Power Supply plugged	d into 110VAC/60Hz		
Test Specifications			Test Meth	hod
FCC 15.407:2013			ANSI C63	3.10:2009
Run # 15	Line:	Neutral	Ext. Attenuation:	: 20 Results Pass





Peak	Data	- VS -	Quasi	Peak	I imit

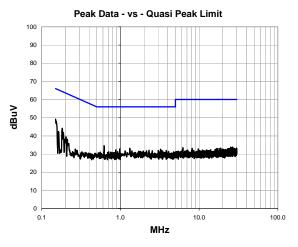
		Data 10	Quadi i dai		
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	28.4	20.4	48.8	66.0	-17.2
0.160	25.8	20.3	46.1	65.5	-19.3
0.153	25.4	20.4	45.8	65.8	-20.0
0.167	24.0	20.3	44.3	65.1	-20.8
0.184	21.3	20.3	41.6	64.3	-22.7
0.206	19.6	20.3	39.9	63.4	-23.4
1.192	11.7	20.4	32.1	56.0	-23.9
4.040	11.3	20.6	31.9	56.0	-24.1
3.976	11.3	20.6	31.9	56.0	-24.1
1.760	11.5	20.4	31.9	56.0	-24.1
2.072	11.4	20.4	31.8	56.0	-24.2
3.208	11.3	20.5	31.8	56.0	-24.2
0.218	18.3	20.3	38.6	62.9	-24.3
3.600	11.1	20.6	31.7	56.0	-24.3
0.799	11.4	20.3	31.7	56.0	-24.3
0.974	11.3	20.3	31.6	56.0	-24.4
0.198	19.0	20.3	39.3	63.7	-24.4
0.621	11.3	20.3	31.6	56.0	-24.4
2.560	11.1	20.5	31.6	56.0	-24.4
0.913	11.2	20.3	31.5	56.0	-24.5

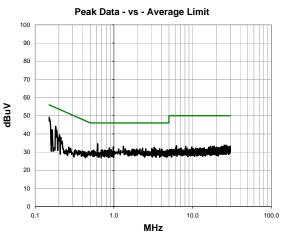
Peak Data - vs - Average Limit

Feak Data - vs - Average Limit					
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	28.4	20.4	48.8	56.0	-7.2
0.160	25.8	20.3	46.1	55.5	-9.3
0.153	25.4	20.4	45.8	55.8	-10.0
0.167	24.0	20.3	44.3	55.1	-10.8
0.184	21.3	20.3	41.6	54.3	-12.7
0.206	19.6	20.3	39.9	53.4	-13.4
1.192	11.7	20.4	32.1	46.0	-13.9
4.040	11.3	20.6	31.9	46.0	-14.1
3.976	11.3	20.6	31.9	46.0	-14.1
1.760	11.5	20.4	31.9	46.0	-14.1
2.072	11.4	20.4	31.8	46.0	-14.2
3.208	11.3	20.5	31.8	46.0	-14.2
0.218	18.3	20.3	38.6	52.9	-14.3
3.600	11.1	20.6	31.7	46.0	-14.3
0.799	11.4	20.3	31.7	46.0	-14.3
0.974	11.3	20.3	31.6	46.0	-14.4
0.198	19.0	20.3	39.3	53.7	-14.4
0.621	11.3	20.3	31.6	46.0	-14.4
2.560	11.1	20.5	31.6	46.0	-14.4
0.913	11.2	20.3	31.5	46.0	-14.5



Work Order:	FOCU0140	Date:	05/16/13			
Project	None	Temperature:	23.7 °C	1111		
Job Site		Humidity:	40.3% RH			
Serial Number	02EA4D000003	Barometric Pres.:	1014 mbar	Tested by: Brandon Hobbs		
EUT	Model 444-2225 (Athe	ena UFL)				
Configuration	7					
Customer	Summit Semiconductor	or				
Attendees	None					
EUT Power	: 3.3 VDC Nominal					
Operating Mode	Transmitting 802.11a, 50% Duty Cycle, Ch. 29, 5700 MHz					
Deviations	None					
Comments	Power Supply plugger	d into 110VAC/60Hz				
Test Specifications			Test Meth	hod		
FCC 15.407:2013			ANSI C63	3.10:2009		
Run # 16	Line:	High Line	Ext. Attenuation:	: 20 Results Pass		





Peak	Data	- VS -	Quasi	Peak	I imit

1 dan Bata vo Quadri dan Emili					
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	28.8	20.4	49.2	66.0	-16.8
0.182	23.9	20.3	44.2	64.4	-20.2
0.621	14.3	20.3	34.6	56.0	-21.4
0.187	21.6	20.3	41.9	64.2	-22.2
1.320	12.8	20.4	33.2	56.0	-22.8
0.164	22.1	20.3	42.4	65.3	-22.8
0.985	12.6	20.3	32.9	56.0	-23.1
3.240	12.1	20.5	32.6	56.0	-23.4
0.874	12.0	20.3	32.3	56.0	-23.7
2.312	11.7	20.5	32.2	56.0	-23.8
3.040	11.5	20.5	32.0	56.0	-24.0
3.384	11.4	20.6	32.0	56.0	-24.0
3.824	11.3	20.6	31.9	56.0	-24.1
0.203	19.1	20.3	39.4	63.5	-24.1
1.400	11.4	20.4	31.8	56.0	-24.2
2.544	11.3	20.5	31.8	56.0	-24.2
2.144	11.3	20.4	31.7	56.0	-24.3
1.952	11.3	20.4	31.7	56.0	-24.3
1.152	11.3	20.4	31.7	56.0	-24.3
1.704	11.2	20.4	31.6	56.0	-24.4

Peak Data -	- VS -	Average	I imit

Feak Data - vs - Average Limit					
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.150	28.8	20.4	49.2	56.0	-6.8
0.182	23.9	20.3	44.2	54.4	-10.2
0.621	14.3	20.3	34.6	46.0	-11.4
0.187	21.6	20.3	41.9	54.2	-12.2
1.320	12.8	20.4	33.2	46.0	-12.8
0.164	22.1	20.3	42.4	55.3	-12.8
0.985	12.6	20.3	32.9	46.0	-13.1
3.240	12.1	20.5	32.6	46.0	-13.4
0.874	12.0	20.3	32.3	46.0	-13.7
2.312	11.7	20.5	32.2	46.0	-13.8
3.040	11.5	20.5	32.0	46.0	-14.0
3.384	11.4	20.6	32.0	46.0	-14.0
3.824	11.3	20.6	31.9	46.0	-14.1
0.203	19.1	20.3	39.4	53.5	-14.1
1.400	11.4	20.4	31.8	46.0	-14.2
2.544	11.3	20.5	31.8	46.0	-14.2
2.144	11.3	20.4	31.7	46.0	-14.3
1.952	11.3	20.4	31.7	46.0	-14.3
1.152	11.3	20.4	31.7	46.0	-14.3
1.704	11.2	20.4	31.6	46.0	-14.4